Town Council
Meeting Agenda
Monday, May 11, 2026
6:00 PM
Town Hall Council Chambers
124 E. Coal Creek Drive

The Council meeting will be held in person and online. Members of the public may participate in the meeting in person or via Zoom or view it on YouTube (closed captioning is available). The recording of the Council meeting will be made available on YouTube and at SuperiorColorado.gov after the meeting.

1. Dinner with Parks and Recreation Advisory Committee PARC (6 p.m.)
2. Preliminary Matters (7:00 p.m.)
   a. Pledge of Allegiance
   b. Roll Call
   c. Approval of Agenda
   d. Council Reports
   e. Public comment on Consent Agenda, Presentations, and Non-Agenda Items. Persons making public comment are asked to state your name and the city you live in (limit 5 min./person)
3. Presentations
   a. 2026 Boulder County Ballot Question Going from 3 to 5 Boulder County Commissioners
4. Consent Agenda
   a. Approval of Council Meeting Minutes
   b. Acceptance of Committee Meeting Notes
   c. Proclamation - National Military Appreciation Month
   d. Consideration of a Resolution of the Town Council of the Town of Superior Approving an Agreement renewal with Olson Outdoors - Wildfire Mitigation — Vegetative Fuels
   e. Consideration of Resolution of the Town Council of the Town of Superior Approving a Voter Service and Polling Center Use Intergovernmental Agreement with Boulder County for the Use of Town Hall during the November 2026 General Election

f. Consideration of Resolution of the Town Council of the Town of Superior approving the First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement

g. Consideration of Resolution of the Town Council of the Town of Superior Approving an Agreement renewal with Goat Bros for Goat Grazing Services

h. Consideration of Ordinance of the Town Council of the Town of Superior Amending Section 1-3-20 (a) of the Superior Municipal Code Regarding Municipal Penalties

i. Consideration of Resolution of the Town Council of the Town of Superior Approving an Economic Incentive Agreement with Ampersands LLC for Reimbursement of Certain Business Expenses

j. Consideration of Resolution of the Town Council of the Town of Superior Approving Appointments to Advisory Committee — Cultural Arts and Public Spaces Advisory Committee (CAPS) and Parks and Recreation Advisory Committee (PARC)

k. Consideration of an Ordinance of the Town Council of the Town of Superior Amending Section 6-10-110(b) of the Superior Municipal Code, Regarding Days of Availability for Festival Short-Term Rental Licenses

l. Airport Noise Report - March 2026

5. Regular Agenda
   a. Consideration of Resolution of the Town Council of the Town of Superior Approving Planning Commission Appointment by way of Vote

   b. Consideration of Resolution of the Town Council of the Town of Superior Approving Construction Contracts for the North and South Pool Projects

6. Adjournment

Public comments regarding general Town Council agenda items that are not a public hearing should be submitted with sufficient time ahead of the meeting to allow an opportunity for Council Members to review.

Item Number:3.a.

Information for Meeting of the Superior Town Council

Agenda Item Name:	2026 Boulder County Ballot Question Going from 3 to 5 Boulder County Commissioners
Meeting Date:	May 11, 2026
Presented By:	Matt Magley, Town Manager
Presented For:	Presentation Discussion

Background:

Representatives of a group, called Big Tent BoCo, are working to increase the number of Boulder County Commissioners from 3 to 5. Terri Brncic and Tina Mueh, are on the Organizing Committee and will be giving the presentation to the Council to inform the community about the merits of the initiative. Senator Amablie and Commissioner Stolzmann are also two of the Organizing Committee members.

Recommendation:
Discussion

Budget Implications:

Motion:

Attachments:
1. Big Tent BoCo Fact Sheet County Commissioners 3 to 5

IT'S TIME FOR 5
BOULDER COUNTY COMMISSIONERS

BIG TENT
BOULDER COUNTY

WHY NOW?
- Boulder County has grown a lot, but still has the same 3 commissioners since the 1800s
- 330,000+ residents are represented by just three officials
- Many communities feel underrepresented

WHAT WOULD CHANGE?
- Increase to 5 commissioners
- Voters decide how the 5 are elected, either
  - 3 district-based commissioners and 2 at-large commissioners, or
  - 5 district-based commissioners

5 REASONS TO SIGN THE PETITION

1. **It's ultimately up to the voters.**
Signing the petition will simply help advance this measure to November's ballot, so voters can decide.

2. **More voices, better representation.**
3 commissioners for 300,000+ people isn't working. Increasing from 3 to 5 means better representation for all Boulder County communities.

3. **Huge budget, small board. It's time for a change.**
Boulder County manages about a $745 million budget with just 3 commissioners. Many similarly sized Colorado counties have 5 commissioners or more representation overall, giving residents more access and oversight.

4. **The cost is tiny compared to the budget.**
Increasing the number of commissioners is estimate to cost around $500,000 total — less than 0.1% of the budget. A good investment for more access and representation.

5. **Better decisions, fewer bottlenecks.**
With only 3 commissioners, every decision is 2–1 or unanimous—and one person can effectively decide the outcome. That creates pressure, limits debate, and can leave large parts of the community feeling unheard.

Our grassroots effort is about better representation and better decisions — for a tiny fraction of the budget.

bigtentboco.com

Town Council

Meeting Minutes

April 27, 2026
Town Hall Council Chambers
124 E. Coal Creek Drive
6:00 PM

Dinner with Open Space Advisory Committee (OSAC) 6 p.m.

Preliminary Matters 7 p.m.

Mayor Mark Lacis called to order the meeting of the Town Council.

a. Pledge of Allegiance

b. Roll Call

Present:
Mayor Mark Lacis
Mayor Pro-tem Jason Serbu
Council Member Heather Cracraft
Council Member Mike Foster
Council Member Jenn Kaaoush
Council Member Stephanie Miller
Council Member Neal Shah

Absent:

Others Present:
Town Manager Matt Magley
Town Attorney Nicholas Hartman
Town Clerk Shannon Dujardin

c. Approval of Agenda

Motion: Council Member Cracraft moved to approve the agenda with item 5h pulled, at the request of Council Member Miller, seconded by Mayor Lacis.
Vote: PASSED: 7 - 0, Absent - 0

d. Council Reports

e. Public comment on Consent Agenda, Presentations, and Non-Agenda Items. Persons making public comment are asked to state your name and the city you live in (limit 5 min./person)
Renee Alanise — Superior Chamber of Commerce as well as small business owners from around Town
Brad Walker via Zoom

Committee Interviews

a. Advisory Committee Interviews for Cultural Arts and Public Spaces Advisory Committee (CAPS), Parks and Recreation Advisory Committee (PARC), and Planning Commission (PC)

Interviewees:
Claire Dixon for CAPS
Xochiquétzal Luna for CAPS
Neha Myer for PARC
Samuel Feldman for Planning Commission

Project Updates

a. Rock Creek Parkway 2026 Reconstruction Project Update

Presentation by Christine Katz, Civil Engineer

Consent Agenda

Motion: Council Member Cracraft moved to approve consent agenda with item 5h pulled, seconded by Council Member Foster.
Vote: PASSED. 7 - 0, Absent - 0

a. Approval of Council Meeting Minutes

b. Acceptance of Committee Meeting Notes

c. Approval of a Proclamation for Small Business Week

d. Approval of a Proclamation - Economic Development Week

e. Approval of a Proclamation - World Migratory Bird Day

f. Consideration of Resolutions of the Town Council of the Town of Superior and the Board of Directors of the Superior Metropolitan District No. 1 (SMD1) Approving a Settlement Statement for the Consolidated Case of In Re Marshall Fire Litigation

g. Consideration of Resolutions of the Town Council of the Town of Superior and the Board of Directors of the Superior Metropolitan District No. 1 (SMD1) Approving an Addendum to the Professional Service Agreement between the Town and District and the Law Firms of Baron & Budd, P.C., and Diab-Chambers, P.C., for Legal Services

i. Consideration of Resolution of the Town Council of the Town of Superior Approving an Intergovernmental Agreement (IGA) with Boulder County for the Boulder County 2026 Youth Corp Program

j. Consideration of Resolution Approving Bikeshare Bicycle Contract

h. Consideration of Resolution of the Town Council of the Town of Superior Approving a Purchase and Sale Agreement with Unisus Development Co. for the Town-owned Property Located at 127 East Coal Creek Drive

Motion: Mayor Lacis moved to approve a resolution approving a purchase agreement with Unisus Development Co. for the Town-owned property located at 127 E Coal Creek Dr.,
Seconded by Council Member Miller.
Vote: PASSED. 7 - 0, Absent - 0

Regular Agenda

a. A Resolution of the Town Council of the Town of Superior Accepting a Petition for Annexation of a Parcel of Land Located in Unincorporated Boulder County and Setting a Public Hearing on the Annexation (76th Street Wiehe Property)

Motion: Mayor Lacis moved to approve a resolution of the Town Council of the Town of Superior accepting a petition for annexation of a parcel of land located in
Unincorporated Boulder County and setting a public hearing on the annexation (76th Street Wiehe Property), seconded by Mayor Pro-tem Serbu.
Vote: PASSED. 7 - 0, Absent - 0

Public Hearing

a. A Resolution of the Town Council of the Town of Superior Approving a Final Development Plan for Lots 3, 4, and 5 of Block 7, Superior Town Center
Presented by Alex Haefling, Planner I

Public Comment:
Harris Griswold
Samuel Feldman
Andrew Thomaides Via Zoom

Motion: Council Member Foster moved to approve a resolution of the Town Council of the Town of Superior approving a final development plan for Lots 3, 4, and 5 of Block 7, Superior Town Center, seconded by Mayor Pro-tem Serbu.
Vote: PASSED. 7 - 0, Absent - 0

Adjournment
9:55 p.m.

_____
Mark Lacis, Mayor

_____

Shannon Dujardin, Town Clerk

Meeting Notes
Superior Historical Commission (SHC)
Friday, April 17, 2026
10:00 a.m.
Superior Community Center
1500 Coalton Road

The Council meeting will be held in person and online. Members of the public may participate in the meeting via Zoom (instructions) or view the meeting on YouTube (closed captioning available). The recording of the meeting will be made available on YouTube and at SuperiorColorado.gov after the meeting.

1. Call Meeting to Order
   Larry Dorsey called the meeting to order at 10:02.

2. Preliminary Matters
   a. Roll Call
      Present: Larry Dorsey, Karen Waligorski, Errol (Wally) Waligorski, Mary Cartwright, Susan Stanish, Scott Phillips, Maureen Hogg (via Zoom)
      Not present: Jill Roberts, Dalton Valette
      Staff Present: Jennifer "JG" Garner, Arts & History Supervisor
      Town Council representative present: Mike Foster
      Guest: Doug Walker (via Zoom); Nancy Thomas; Jean Barrett

   b. Approval of Agenda – Scott motioned to approve; Mary seconded. Agenda approved.

   c. Public Comment (limit 5 minutes/person) - none

3. General Updates, & Debriefing
   a. Updates
      i. Correspondence, completed/required
         - Per Mary, all up to date as far as she knows
      ii. Marshall Fire Remembrance, all advisory group subcommittee, via CAPS
         - Per JG, group has not met recently because much administrative work is still being done in the background
      iii. RFI log and Mass Media list
         - Per Doug interpreting for Maureen, no updates
      iv. Volunteer(s)
         - Per Maureen, what is happening with Jade? Per Scott, no updates from Dalton as Jade has not responded to

outreach from him; far as we know she is graduating this spring
    - Maureen also asked about Hai-y who is working on the video; per JG no updates yet on her work
v. Donor(s), Lions Club, & recent donations
    - Dalton had said he had information from a person named Robert Spangler who wants to donate embers collected after the fire
    - Per JG the signs for the Lions Club donations are nearly done
vi. Collection management
    - Update from Susan on CatalogIt progress
    - Per JG the pegboard is now with Jill who said her husband would create a frame for it
vii. QR code signage and partnership with CAPS (covered during Lions Club update above)
viii. History Colorado Affiliates – no updates

b. Debriefing
i. March 27 work session – collection management activities
ii. April 4 open museums and cemetery
    - Per Scott, a total of 28 people came to the cemetery including a group of veterans; members of the Spicer family visited again; the iris are coming up but not yet blooming
    - Per Wally, the veterans want to be up at the cemetery on Memorial Day and possibly do other volunteer duties; there is a separate meeting set up on that for planning
    - There was not much turnout at Asti but about 10 people visited Grasso; suggestion per Mary it is best if we have at least two people at Grasso in the warm weather so we can have one person showing the barn and outbuildings
iii. April 10 work session – collection management activities
iv. Heritage Roundtable and ANFRM
    - Per Mary the next ANFRM will be next Monday from 1:00-3:00 at Arvada Flour Mill; June meeting will be the Ice Cream Social will be at Wheatridge Historical Park; in August we will be hosting ANFRM
v. Preservation Plan work group
    - Per Scott, he and Dalton have met several times to discuss scope and ideas per a tiered framework concept

4. Work Plan Check-in
a. Discussion Items
i. Spring Program (4/29 at 6:30 PM) final planning details and agenda
    - Per JG, agenda was sent via email; Larry reviewed the agenda and plan for the evening; event will be recorded
ii. Walking Tour planning
    - Per Larry, this will be similar to Mine Walking Tours done in the past; on May 1 we'll install the stakes; for the Tour

we will start from Grasso; Scott says he is not available because he will be out of town

iii. Drumm's map framing cost (vote)
- JG reviewed the three options provided by Katie from Art Source; the group discussed
- Motion made by Scott to approve expenditure for option 1 as proposed by Art Source International, allocating up to $3,500 from Historical Commission budget to contribute to conservation framing (option 1) for the Drumm map on the condition that additional funding would be covered from other sources by the town. Mary seconded the motion. Per vote, the motion carried.

iv. Budget for sandwich donation for the Boulder Heritage Roundtable Awards Ceremony in May (vote)
- Motion made by Mary to finance the purchase of sandwiches for the event through a donation of up to $200; seconded by Karen; motion carried.

v. Home Rule documentation for the collection – postponed to next month's meeting

vi. Fall Program planning; Hello Superior deadline is mid-July
- Per Larry, he has heard of a person who does a presentation as "Rosie the Riveter" to discuss history of women's participation in the war effort; he will provide more details next week

b. Upcoming Events

i. May 2 open museums 10 a.m. – 2 p.m.
- Mary unavailable due to a graduation; Scott also out of town that day; docent schedule TBD

ii. May 8 work session, 10 a.m. – 12 noon

iii. May 18 Boulder Heritage Roundtable Awards Ceremony, Chautauqua Community House, 6-9 p.m. SHC recognition for museum rebuild; Sgt. Salaman to present award
- Larry explained the planned events for the evening; he is working with Sgt. Salaman on how it will go; he has also provided a few slides as background; if the mayor is available he will accept the award on behalf of the town

iv. Reminder: Mount Vernon event at History Colorado, May 4

v. Maureen noted conflict with June SHC meeting and Juneteenth holiday (6/19/26); group proposed moving meeting to 6/12 which would normally be the monthly work session and switching the work session to 6/19.

5. Staff Updates

i. Grasso grant status
- Per JG, she is working with grant writer (Brooke) on a proposal for an amount TBD ranging from $50-200K, there is also a 25% match requirement; by the time we apply we will know how much the proposal will likely be for
- Lydia has been helping with unearthing historical documents on past work that has been done at Grasso

and the bungalow; grant is not for the bungalow, only the other outbuilding structures and the park
    - JG sent an invitation to SHC for a work session to create a wish list of work items that will go into the assessment by contractors to have more information for their bids; work session will be next Tuesday at 1:00
ii. Superior 130 in next Hello Superior issue
    - Per JG, she sent questions to SHC commission members to gather content for the article; deadline by EOD Tuesday 4/21
iii. Lions signage and photo op
    - Per JG, once signage is installed, we would like to take some photos including members from Lions and SHC
iv. Lottie Eggleston headstone condition
    - Per JG, we've previously talked about the deteriorating condition of this headstone; Larry recommended we talk to Mary Reilly McNellan who did the presentation on Columbia Cemetery in Boulder; Mary's feedback was (1) consider leaving it in place and elevating the head for better drainage, or (2) leave as is and add an informational sign about it, or (3) remove and put it into the museum, or (4) consider reproducing it completely; JG contacted Lottie's descendant Kevin Eggleston from Boulder who said we should do whatever the Commission thinks best; this is something we should continue to have additional discussion prior to making a decision; we will discuss further next month
v. JG out on May 15 so Lydia will fill in hosting the SHC meeting for that day
vi. Community Center construction and summer meetings at Town Hall
    - Per Mike Foster, since summer is such a high use time for the community center, Town Council asked that construction be deferred until fall, so our SHC meetings won't be happening at Town Hall until then

6. Other

7. Adjourn – motion to adjourn made by Wally and seconded by Scott; motion carried.

Next meeting: Friday, May 15, 2026, at the Superior Community Center

Item Number:4.c.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Proclamation - National Military Appreciation Month
Meeting Date:	May 11, 2026
Presented By:	
Presented For:	Presentation

Background:

May is National Military Appreciation Month in the US, established by Congress in 1999 to honor, recognize, and appreciate the service and sacrifices of the Armed Forces, veterans, and their families. Running from May 1 to May 31, this month features numerous observances, encouraging all Americans to remember those who serve and have served our country.

This proclamation was requested by the Superior Veterans Group (SVG), a community group with a mission to ensure accessibility to critical knowledge and resources for, and effective and respectful communication among veterans, active-duty service members, Blue and Gold Star family members, stakeholders and supporters.

Key Observances in May for Military Appreciation Month:

- May 1: Loyalty Day – Reaffirming loyalty to the U.S. and American freedom.
- May 1: Silver Star Service Banner Day – Honoring wounded, injured, or ill service members.
- May 8: V-E Day – Marking the end of World War II in Europe.
- Friday before Mother's Day: Military Spouse Appreciation Day – Honoring the contributions of military spouses.
- Third Saturday in May: Armed Forces Day – A day to honor those currently serving in all branches.
- Last Monday in May: Memorial Day – Remembering military personnel who died in service

Recommendation:

Budget Implications:
None

Motion:

Attachments:
1. Military Appreciation Month Proclamation 2026

A PROCLAMATION

THE TOWN COUNCIL OF THE TOWN OF SUPERIOR DECLARING THE MONTH OF MAY AS MILITARY APPRECIATION MONTH, 2026

WHEREAS, in 1999 the United States Congress passed a resolution proclaiming May as National Military Appreciation Month, encouraging all Americans to remember those who gave their lives in service and to honor all the men and women who have served and are serving our country today, along with the families of these service members for their sacrifices in our Armed Forces; and

WHEREAS, the month of May was chosen because it has many individual days marked to acknowledge our military's achievements, including Loyalty Day established in 1921, Victory in Europe (VE) Day commemorating the end of WWII in Europe in I 945, and Children of Fallen Patriots Day. May also includes Military Spouse Appreciation Day, Armed Forces Day, and before ending the month, we pause to remember those who made the ultimate sacrifice on Memorial Day; and

WHEREAS, Superior is home to hundreds of Veterans, servicemen and women, their families, and loved ones and the Superior Veterans Group has requested for this special acknowledgement and opportunity to honor, support, and recognize, our service members, veterans, and their families and remember with deep gratitude that the freedom and security that citizens of the United States are afforded today are a direct result of the sacrifices made and continued vigilance demonstrated by our United States Armed Forces; and

THE TOWN OF SUPERIOR HEREBY PROCLAIMS THE MONTH OF MAY 2026 WILL BE RECOGNIZED AS MILITARY APPRECIATION MONTH.

ADOPTED this 11th day of May, 2026.

_____

Mark Lacis,
Mayor

Item Number:4.d.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of a Resolution of the Town Council of the Town of Superior Approving an Agreement renewal with Olson Outdoors - Wildfire Mitigation — Vegetative Fuels
Meeting Date:	May 11, 2026
Presented By:	Leslie Clark, Parks, Recreation and Open Space Director, Brooke Badon, Grants Administrator, Allison James, Disaster Preparedness and Recovery Manager
Presented For:	Approval

Background:
The Town of Superior solicited Statements of Qualifications in 2025 from qualified and experienced vendors to implement the vegetative fuels reduction activities supported through the FEMA Hazard Mitigation Grant Program (HMGP). Olson Outdoors was recommended as the project vendor, and this agreement was approved by the Town Council in October 2025. This agreement renewal represents continuation of services from June 2026 to June 2027. Vegetative fuel reduction activities provided by Olson include mowing, removal of ladder fuels (hazardous trees, limbs and brush), application of herbicide to reduce invasive weeds, and re-seeding areas with native seed. Projects are performed in the town's open space areas, and are vetted and approved for funding through the FEMA Hazard Mitigation Grant Program.

Grant Purpose:
The FEMA HMGP awards funds to support hazard mitigation for solutions that reduce the impact of disasters in the future. This mitigation planning and actions break the cycle of disaster damage, reconstruction, and repeated damage in the future.

Recommendation:
Staff recommend approving the agreement renewal with Olson Outdoors for continuation of wildfire mitigation services supported through the FEMA Hazard Mitigation Grant Program.

Budget Implications:

Town Open Space Wildfire Mitigation Funds	HMGP Funding Remaining — Allocation #1	Olson Agreement Amount	Local Superior Match
$674,496	$325,000	215,000	37,410

The Town of Superior was awarded $605,130 as part of Year One FEMA HMGP allocations. The Town is still utilizing this first allocation amount as we progress into Year Two with approximately $325,000 remaining for fuel reduction activities. The Olson agreement would represent $215,000 of this remaining Year One residual with the remaining being allocated to goat grazing. The Town is responsible for covering a local match of roughly 17% or $37,410 for the Olson Agreement. This agreement renewal with Olson Outdoors covers the grant period of performance from June 2026 through June 2027. When FEMA releases Year Two allocations, staff will bring an amended agreement to Town Council for approval. This is a reimbursable grant program, and the Town will pay the cost upfront and submit for FEMA reimbursement. Town funding will come from the Open Space Fuels Mitigation Budget.

Motion:
Move to approve a Resolution approving an agreement renewal with Olson Outdoors to provide Vegetative Fuels Reduction services in the amount of $ 215,000.

Attachments:
1. Olson Lawn Care-R032526
2. Olson Lawn Care-A032526

Town of Superior
Resolution Number R-37
Series 2026

A Resolution of the Town Council of the Town of Superior Approving an Agreement for Services with Olson Outdoors, for Vegetative Fuels Mitigation Services

Whereas, the Town experienced the tragic Marshall Fire in December of 2021;

Whereas, the Town received grant funding through the FEMA Hazard Mitigation Grant Program to address wildfire mitigation efforts throughout Town; and

Whereas, a portion of the grant funding will be utilized in support of vegetative fuel loads reduction including mowing, brush removal, limbing of trees, chipping, weed mitigation, soil preparation and reseeding on Town properties; and

Whereas, the Town desires to contract with Olson Outdoors for such vegetative fuel loads reduction.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Agreement for Services between the Town and Olson Outdoors, is hereby approved in substantially the same form as attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Agreement for Services on behalf of the Town.

Adopted this 11th day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

AGREEMENT FOR SERVICES

THIS AGREEMENT FOR SERVICES (the "Agreement") is made and entered into this _____ day of _____, 2026 (the "Effective Date"), by and between the Town of Superior, a Colorado municipal corporation with an address of 124 East Coal Creek Drive, Superior, CO 80027, (the "Town"), and Olson Outdoor Lawn Care, LLC, an independent contractor with a principal place of business at 7700 West 120th Ave, Broomfield, CO 80020 ("Contractor") (each a "Party" and collectively the "Parties").

WHEREAS, the Town requires services; and

WHEREAS, Contractor has held itself out to the Town as having the requisite expertise and experience to perform the required services.

NOW, THEREFORE, for the consideration hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

I. SCOPE OF SERVICES

A. Contractor shall furnish all labor and materials required for the complete and prompt execution and performance of all duties, obligations, and responsibilities which are described or reasonably implied from the Scope of Services set forth in **Exhibit A**, attached hereto and incorporated herein by this reference.

B. A change in the Scope of Services shall not be effective unless authorized as an amendment to this Agreement. If Contractor proceeds without such written authorization, Contractor shall be deemed to have waived any claim for additional compensation, including a claim based on the theory of unjust enrichment, quantum merit or implied contract. Except as expressly provided herein, no agent, employee, or representative of the Town is authorized to modify any term of this Agreement, either directly or implied by a course of action.

II. TERM AND TERMINATION

A. This Agreement shall commence on the Effective Date, and shall continue until Contractor completes the Scope of Services to the satisfaction of the Town, or until terminated as provided herein.

B. Either Party may terminate this Agreement upon 30 days advance written notice. The Town shall pay Contractor for all work previously authorized and completed prior to the date of termination. If, however, Contractor has substantially or materially breached this Agreement, the Town shall have any remedy or right of set-off available at law and equity.

III. COMPENSATION

In consideration for the completion of the Scope of Services by Contractor, the Town shall pay Contractor $215,000. This amount shall include all fees, costs and expenses incurred by Contractor, and no additional amounts shall be paid by the Town for such fees, costs and expenses.

Contractor may submit periodic invoices, which shall be paid by the Town within 30 days of receipt.

IV. RESPONSIBILITY

A. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and licenses in good standing, required by law. The work performed by Contractor shall be in accordance with generally accepted practices and the level of competency presently maintained by other contractors in the same or similar type of work in the applicable community.

B. The Town's review, approval or acceptance of, or payment for any services shall not be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

C. Contractor shall at all times comply with all applicable law, including without limitation all current and future federal, state and local statutes, regulations, ordinances and rules relating to: the emission, discharge, release or threatened release of a Hazardous Material into the air, surface water, groundwater or land; the manufacturing, processing, use, generation, treatment, storage, disposal, transportation, handling, removal, remediation or investigation of a Hazardous Material; and the protection of human health, safety or the indoor or outdoor environmental, including without limitation the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601, et seq. ("CERCLA"); the Hazardous Materials Transportation Act, 49 U.S.C. § 1801, et seq.; the Resource Conservation and Recovery Act, 42 U.S.C. § 6901, et seq. ("RCRA"); the Toxic Substances Control Act, 15 U.S.C. § 2601, et seq.; the Clean Water Act, 33 U.S.C. § 1251, et seq.; the Clean Air Act; the Federal Water Pollution Control Act; the Occupational Safety and Health Act; all applicable environmental statutes of the State of Colorado; and all other federal, state or local statutes, laws, ordinances, resolutions, codes, rules, regulations, orders or decrees regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance or material, as now or at any time hereafter in effect.

D. Contractor shall comply with the accessibility standards for an individual with a disability adopted by the State Office of Information Technology pursuant to C.R.S. § 24-85-103, and shall indemnify, hold harmless and assume liability on behalf of the Town and its officers, employees, agents and attorneys for all costs, expenses, claims, damages, liabilities, court awards, attorney fees and related costs, and any other amounts incurred by the Town in relation to Contractor's noncompliance with such accessibility standards.

V. OWNERSHIP

Any materials, items, and work specified in the Scope of Services, and any and all related documentation and materials provided or developed by Contractor shall be exclusively owned by the Town. Contractor expressly acknowledges and agrees that all work performed under the Scope of Services constitutes a "work made for hire." To the extent, if at all, that it does not constitute a "work made for hire," Contractor hereby transfers, sells, and assigns to the Town all of its right, title, and interest in such work. The Town may, with respect to all or any portion of such work, use, publish, display, reproduce, distribute, destroy, alter, retouch, modify, adapt, translate, or

change such work without providing notice to or receiving consent from Contractor; provided that Contractor shall have no liability for any work that has been modified by the Town.

VI. INDEPENDENT CONTRACTOR

Contractor is an independent contractor. Notwithstanding any other provision of this Agreement, all personnel assigned by Contractor to perform work under the terms of this Agreement shall be, and remain at all times, employees or agents of Contractor for all purposes. Contractor shall make no representation that it is a Town employee for any purposes.

VII. INSURANCE

A. Contractor agrees to procure and maintain, at its own cost, a policy or policies of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by Contractor pursuant to this Agreement. At a minimum, Contractor shall procure and maintain, and shall cause any subcontractor to procure and maintain, the insurance coverages listed below, with forms and insurers acceptable to the Town.

1. Worker's Compensation insurance as required by law.

2. Commercial General Liability insurance with minimum combined single limits of $1,000,000 each occurrence and $2,000,000 general aggregate. The policy shall be applicable to all premises and operations, and shall include coverage for bodily injury, broad form property damage, personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall contain a severability of interests provision, and shall include the Town and the Town's officers, employees, and contractors as additional insureds. No additional insured endorsement shall contain any exclusion for bodily injury or property damage arising from completed operations.

B. Such insurance shall be in addition to any other insurance requirements imposed by law. The coverages afforded under the policies shall not be canceled, terminated or materially changed without at least 30 days prior written notice to the Town. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Any insurance carried by the Town, its officers, its employees or its contractors shall be excess and not contributory insurance to that provided by Contractor. Contractor shall be solely responsible for any deductible losses under any policy.

C. Contractor shall provide to the Town a certificate of insurance as evidence that the required policies are in full force and effect. The certificate shall identify this Agreement.

VIII. INDEMNIFICATION

Contractor agrees to indemnify and hold harmless the Town and its officers, insurers, volunteers, representative, agents, employees, heirs and assigns from and against all claims, liability, damages, losses, expenses and demands, including attorney fees, on account of injury, loss, or damage, including without limitation claims arising from bodily injury, personal injury, sickness, disease, death, property loss or damage, or any other loss of any kind whatsoever, which arise out

of or are in any manner connected with this Agreement if such injury, loss, or damage is caused in whole or in part by, the act, omission, error, professional error, mistake, negligence, or other fault of Contractor, any subcontractor of Contractor, or any officer, employee, representative, or agent of Contractor, or which arise out of a worker's compensation claim of any employee of Contractor or of any employee of any subcontractor of Contractor. Contractor's liability under this indemnification provision shall be to the fullest extent of, but shall not exceed, that amount represented by the degree or percentage of negligence or fault attributable to Contractor, any subcontractor of Contractor, or any officer, employee, representative, or agent of Contractor or of any subcontractor of Contractor.

IX. MISCELLANEOUS

A. *Governing Law and Venue*. This Agreement shall be governed by the laws of the State of Colorado, and any legal action concerning the provisions hereof shall be brought in Boulder County, Colorado.

B. *No Waiver*. Delays in enforcement or the waiver of any one or more defaults or breaches of this Agreement by the Town shall not constitute a waiver of any of the other terms or obligation of this Agreement.

C. *Integration*. This Agreement constitutes the entire agreement between the Parties, superseding all prior oral or written communications.

D. *Third Parties*. There are no intended third-party beneficiaries to this Agreement.

E. *Notice*. Any notice under this Agreement shall be in writing, and shall be deemed sufficient when directly presented or sent pre-paid, first class United States Mail to the Party at the address set forth on the first page of this Agreement.

F. *Severability*. If any provision of this Agreement is found by a court of competent jurisdiction to be unlawful or unenforceable for any reason, the remaining provisions hereof shall remain in full force and effect.

G. *Modification*. This Agreement may only be modified upon written agreement of the Parties.

H. *Assignment*. Neither this Agreement nor any of the rights or obligations of the Parties shall be assigned by either Party without the written consent of the other.

I. *Governmental Immunity*. The Town and its officers, attorneys and employees, are relying on, and do not waive or intend to waive by any provision of this Agreement, the monetary limitations or any other rights, immunities or protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, or otherwise available to the Town and its officers, attorneys or employees.

J. *Rights and Remedies*. The rights and remedies of the Town under this Agreement are in addition to any other rights and remedies provided by law. The expiration of this Agreement

shall in no way limit the Town's legal or equitable remedies, or the period in which such remedies may be asserted, for work negligently or defectively performed.

K. *Subject to Annual Appropriation*. Consistent with Article X, § 20 of the Colorado Constitution, any financial obligation of the Town not performed during the current fiscal year is subject to annual appropriation, shall extend only to monies currently appropriated, and shall not constitute a mandatory charge, requirement, debt or liability beyond the current fiscal year.

X. FEDERAL PROVISIONS

A. *General*. The Parties acknowledge that the Agreement is subject to the provisions of 2 C.F.R. Part 200 for projects funded in whole or in part by federal funds and the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. § 5121, *et seq*.) for projects resulting from Declared Presidential Disasters.

B. *Equal Employment Opportunity*.

1. Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include without limitation the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

3. Contractor shall not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with Contractor's legal duty to furnish information.

4. Contractor shall send to each labor union or representative of workers with which Contractor has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of

Contractor's commitments under this Section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

5. Contractor shall furnish all information and reports required by Executive Order 11246 and by rules, regulations, and orders of the Secretary of Labor pursuant thereto, and shall permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

6. In the event of Contractor's noncompliance with this section, this Agreement may be canceled, terminated, or suspended in whole or in part and Contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

7. Contractor shall include these provisions in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor, so that such provisions will be binding upon each subcontractor or vendor. Contractor shall take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, Contractor may request the United States to enter into such litigation to protect the interests of the United States.

C. *Davis-Bacon Act and the Copeland "Anti-Kickback" Act*. Contractor shall comply with 40 U.S.C. § 3141-3144 and 40 U.S.C. § 3146-3148, as supplemented by 29 C.F.R. Part 5. set forth below.

1. Minimum Wages.

a. All laborers and mechanics will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 C.F.R. Part 3)), the full amount of wages and *bona fide* fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under § 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics. Regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time

actually worked therein, provided that the payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination and the Davis-Bacon poster (WH-1321) shall be posted at all times by Contractor and subcontractors at the work site in a prominent and accessible place where it can be easily seen by workers.

b. Contractor shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under this Agreement shall be classified in conformance with the wage determination. Contractor shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

i. The work to be performed by the classification requested is not performed by a classification in the wage determination; and

ii. The classification is utilized in the area by the construction industry; and

iii. The proposed wage rate, including any *bona fide* fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

c. If Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and Contractor agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by Contractor to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise Contractor, or notify Contractor that additional time is necessary.

2. If Contractor and the laborers or mechanics to be employed in the classification or their representatives do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), Contractor shall refer the questions, including the views of all interested parties and the recommendation of Contractor, to the Administrator for determination. The Administrator or an authorized representative will issue a determination within 30 days of receipt and so advise Contractor or will notify Contractor that additional time is necessary.

3. The wage rate (including fringe benefits where appropriate) determined pursuant to this Section shall be paid to all workers performing work in the classification under this Agreement from the first day on which work is performed in the classification.

4. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, Contractor shall either pay the benefit as stated in the wage determination or shall pay another *bona fide* fringe benefit or an hourly cash equivalent thereof.

5. If Contractor does not make payments to a trustee or other third person, Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided that that the Secretary of Labor has found, upon the written request of Contractor,

that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

6. The Town shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from Contractor under this Agreement or any other federal contract with Contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements that is held by Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, the Town may, after written notice to Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Payrolls and basic records.

a. Payrolls and basic records relating thereto shall be maintained by Contractor during the course of the work and preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in § 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 C.F.R. 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in § 1(b)(2)(B) of the Davis-Bacon Act, Contractor shall maintain records that show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. If Contractor employs apprentices or trainees under approved programs, Contractor shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. Submittals.

i. Contractor shall submit weekly for each week in which any work is performed a copy of all payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the federal funding agency. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 C.F.R. 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only include an individually identifying number for each employee. The required weekly payroll information may be submitted in any form desired. Contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractor and

subcontractors shall maintain the full social security number and current address of each covered worker, and shall submit them to the Town for transmission to the federal funding agency, Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for Contractor to require a subcontractor to provide addresses and social security numbers to Contractor for its own records, without weekly submission to the sponsoring government agency or the applicant, sponsor, or owner.

ii. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by Contractor or subcontractor or their agent who pays or supervises the payment of the persons employed under the Agreement, certifying the following: that the payroll for the payroll period contains the information required to be provided under § 5.5(a)(3)(ii) of 29 C.F.R. Part 5, the appropriate information is being maintained under § 5.5(a)(3)(i) of 29 C.F.R. Part 5, and that such information is correct and complete; that each laborer or mechanic (including each helper, apprentice, and trainee) employed on the Agreement during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 C.F.R. part 3; and that each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the Agreement.

iii. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance".

iv. The falsification of any of the above certifications may subject Contractor or any subcontractor to civil or criminal prosecution under 31 U.S.C. § 231.

c. Contractor or subcontractor shall make the records required by this section on available for inspection, copying, or transcription by authorized representatives of the federal funding agency or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to Contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 C.F.R. 5.12.

8. Apprentices and trainees.

a. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the

Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where Contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Except as provided in 29 C.F.R. 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered

program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, Contractor shall no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 C.F.R. part 30.

9. Contractor shall insert in any subcontracts the clauses contained in 29 C.F.R. 5.5(a)(1) through (10) and such other clauses as the federal funding agency may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 C.F.R. 5.5.

10. A breach of the clauses in 29 C.F.R. 5.5 may be grounds for termination of this Agreement, and for debarment as provided in 29 C.F.R. 5.12.

11. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 C.F.R. parts 1, 3, and 5 are herein incorporated by reference in this Agreement.

12. Disputes concerning the labor standards provisions of this Agreement, including disputes between Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives, shall be resolved in accordance with 29 C.F.R. parts 5, 6, and 7.

13. Certification of eligibility.

a. Contractor certifies that neither it nor any person or firm who has an interest in Contractor is a person or firm ineligible to be awarded government contracts by virtue of § 3(a) of the Davis-Bacon Act or 29 C.F.R. 5.12(a)(1).

b. No part of this Agreement shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of § 3(a) of the Davis-Bacon Act or 29 C.F.R. 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. § 1001.

D. *Contract Work Hours and Safety Standards Act*. Contractor shall comply with the following:

1. Neither Contractor nor any subcontractor employing laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which they are employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than 1.5 times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

2. In the event of any violation of the clause set forth in subsection (1) hereof, Contractor and any subcontractor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subsection (1) hereof, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of required overtime wages required.

3. The Town shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by Contractor or subcontractor under any such contract or any other federal contract with the same Contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages.

4. Contractor or subcontractor shall insert in any subcontracts the clauses set forth in this Section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with this Section.

5. The requirements of 40 U.S.C. § 3704 apply. No laborer or mechanic may be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

E. *Rights to Inventions Made*. If the federal award providing funding for this Agreement meets the definition of "funding agreement" under 37 C.F.R. § 401.2(a) and this Agreement is between the Town and a small business firm or nonprofit organization regarding the substitution of parties, assignment, or performance of experimental, developmental, or research work under such funding agreement, the Parties shall comply with and be bound by 37 C.F.R. Part 401 and any implementing regulations issued by the awarding agency.

F. *Clean Air Act and Clean Water Act*. Contractor shall comply with the Clean Water Act and shall report each violation to the Town, and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the State of Colorado, the federal awarding agency, and the appropriate Environmental Protection Agency Regional Office, and shall require all subcontractors to these requirements in each subcontract exceeding $100,000 financed in whole or in part with a federal award. Contractor shall comply with the Federal Water Pollution Control Act and shall report each violation to the Town and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the State of Colorado, federal awarding agency, and the appropriate Environmental Protection Agency Regional Office. Contractor agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with a federal award.

G. *Energy Efficiency*. Contractor shall comply with mandatory standards and policies relating to energy efficiency contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6201), and shall include this clause in each third-party subcontract financed in whole or in part with federal assistance.

H. *Debarment and Suspension*.

1. Contractor affirms that neither it nor its principals are suspended or debarred or otherwise excluded from procurement by the Federal Government and do not appear in the SAM Exclusions, which is a list maintained by the General Services Administration.

2. If the Agreement is for $25,000 or more:

a. Contractor verifies that neither Contractor nor its principals (defined at 2 C.F.R. §180.995) or affiliates (defined at 2 C.F.R. §180.905) are excluded (defined at 2 C.F.R. §180.940) or disqualified (defined at 2 C.F.R. §180.935);

b. Contractor shall comply with 2 C.F.R. Part 180, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction;

c. This certification is a material representation of fact relied upon by the Town, and if it is later determined that Contractor did not comply with 2 C.F.R. Part 180, subpart C, in addition to remedies available to the State of Colorado and the Town, the Federal Government may pursue available remedies, including without limitation suspension and debarment.

3. Throughout this Agreement, Contractor agrees to comply with the requirements of 2 C.F.R. Part 180, subpart C. Contractor agrees to include a provision requiring such compliance in its lower tiered covered transactions.

I. *Byrd Anti-Lobbying Amendment*. Contractors who apply or bid for an award of $100,000 or more shall file the required certification set forth in the Certification Regarding Lobbying for the specific funding source. Each tier certifies to the tier above that it will not and has not used federal funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining a federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier up to the recipient.

J. *Procurement of Recovered Materials*. In the performance of this Agreement, where the purchase price of a product exceeds $10,000 or the value of the quantity acquired by the preceding fiscal year exceeded $10,000, Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired: competitively within a timeframe providing for compliance with the Agreement performance schedule; meeting Agreement performance requirements; or at a reasonable price. Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program. The

list of EPA-designated items is available at https://www.epa.gov/sites/production/files/2016-02/documents/cpg-fs.pdf.

K. *Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms*. If subcontracts are to be let, Contractor shall take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible:

1. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

2. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

3. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and

5. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

L. *Federal Law, Regulations, and Executive Orders.* Contractor acknowledges that funding under this Agreement may include federal, state, and local money, and that financial assistance from federal agencies will be used to fund specific projects under this Agreement only. For those projects, Contractor agrees to comply with all applicable law, rule, regulation, executive order, policies of the applicable federal funding agency, procedure, and directives.

M. *No Obligation by Federal Government*. The Federal Government is not a party to this Agreement and is not subject to any obligations or liabilities to the County, Contractor, or any other party pertaining to any matter resulting from the Agreement.

N. *Program Fraud and False or Fraudulent Statements or Related Acts*. Contractor acknowledges that 31 U.S.C. § 38 applies to this Agreement.

O. *Department of Homeland Security Seal, Logo, and Flags*. Contractor shall not use Department of Homeland Security ("DHS") seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without FEMA pre-approval.

P. *Housing and Community Development Act*.

1. The work to be performed under this Agreement is subject to Section 3 of the Housing and Urban Development Act of 1968, 12 U.S.C. § 1701u (Section 3). The Parties agree to comply with HUD's regulations in 24 CFR Part 135, which implement Section 3. The Parties certify that they are under no contractual or other impediment that would prevent them from complying with the Part 135 regulations.

2. Contractor agrees to send to each labor organization or representative or workers with which Contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of Contractor's commitments under the Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

3. Contractor shall include the Section 3 clause in every subcontract subject to compliance with regulations in 24 C.F.R. Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 C.F.R. Part 135. Contractor shall not subcontract with any subcontractor where Contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 C.F.R. Part 135.

4. Contractor shall certify that any vacant employment positions, including training positions, that are filled (1) after Contractor is selected but before the Agreement is executed, and (2) with persons other than those to whom the regulations of 24 C.F.R. Part 135 require employment opportunities to be directed, were not filled to circumvent Contractor's obligations under 24 C.F.R. Part 135.

5. Noncompliance with 24 C.F.R. Part 135 may result in sanctions, termination of this Agreement for default, and debarment or suspension from future HUD-assisted contracts.

6. With respect to work performed in connection with Section 3 covered Indian housing assistance, § 7(b) of the Indian Self-Determination and Education Assistance Act. (25 U.S.C § 450e) applies to the work to be performed under this Agreement and requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties that are subject to the provisions of Section 3 and § 7(b) agree to comply with Section 3 to the maximum extent feasible, but in derogation of compliance with § 7(b).

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

TOWN OF SUPERIOR, COLORADO

_____
Mark Lacis, Mayor

ATTEST:

_____

Shannon Dujardin, Town Clerk

CONTRACTOR

By: _____

STATE OF COLORADO)
) ss.
COUNTY OF _____)

The foregoing instrument was subscribed, sworn to and acknowledged before me this ___ day of _____, 2026, by _____ as _____ of Olson Outdoor Lawn Care, LLC.

My commission expires:

(S E A L)

_____
Notary Public

EXHIBIT A
SCOPE OF SERVICES

Contractor's Duties

During the term of this Agreement, Contractor shall perform the following duties, as directed by the Town:

1. Mowing, brush removal, limbing of trees, tree removal, chipping, weed mitigation (herbicide application and mechanical pulling) soil preparation and re-seeding with native seed on the following Town open space and right-of-way properties:

Town of Superior HMGP Vegetative Fuel Reduction		
Project Areas	**Parcel Name**	**Acres**
A	Madson Open Space	1.58
B	Arsenault Open Space	15.17
C	Coal Creek Crossing Open Space	17.92
D	Town 15	15.09
E	Coyote Ridge Open Space	284.79
F	Community Park (1 and 2)	64.49
G	Riverbend Park	7.86
H	Bowes Pond Natural Area	9.22
I	Tract E	25.42
J	Fire Station Park	20.71
K	Autrey Park	18.31
L	Sagamore Right-of-Way	6.6
M	McCaslin Blvd Right-of-Way	15.87
X	Tract H	16.74
New	Harney Lastoka Open Space	30.00

2. Work cooperatively with Town staff and Project Manager to carry out, and track/document progress on, the identified and approved wildfire vegetative fuel reduction services for each property.

3. Sustainability practices are encouraged, including use of non-fossil fuels (electrified equipment), and the sustainable disposal of wildfire fuels that are removed. Contractor shall not use glyphosate. Contractor shall comply with State Regulation 29 regarding restrictions on the use of small hand-held lawn and garden equipment to reduce air pollution emissions that form ground-level ozone.

4. Provide all needed traffic control and safety measures.

5. Provide all equipment necessary to successfully mow, remove brush, tree limbs, and trees, apply herbicide and provide mechanical weed removal, prepare soils, reseed, and address erosion control. The Town may cover rental costs or hourly equipment rates—such as for a wood chipper, dump trailers, or dumpsters—if needed and align with the approved grant award and budget.

6. Post approved contact information on-site to field immediate questions or concerns from the general public with regarding the project. Contractor shall submit proposed public communication/ information to Town staff for approval and notify Town staff of the frequency of such communications.

7. Notify Town staff of any issues hindering the project's success, including, but not limited to, access concerns, extreme weather incidents, vandalism or other negative public interactions, and wildlife disturbances.

8. All equipment and staging materials shall be removed immediately upon completion of work. Any long-term staging or storage equipment must be coordinated in advance and approved by Town staff.

Contractor's Deliverables

In performance of the duties described above, Contractor shall deliver the following items to the Town, during the timeframes established by the Town:

1. Provide as-needed project status reports and updates. Project tracking, documentation and reporting must be compliant with FEMA HMGP. Annual reporting to the Town Council may be required.

2. Provide prompt notification to Town staff of any issues that may impede the project's success, including but not limited to schedule delays, quality control, budget overruns, or regulatory risks.

3. Work closely with Town staff to recommend any changes to HMGP projects, including proposed revisions to Scope of Work, Budget, Activity Schedule.

4. Provide monthly invoices for work completed. Invoicing must be compliant with FEMA HMGP.

Item Number:4.e.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving a Voter Service and Polling Center Use Intergovernmental Agreement with Boulder County for the Use of Town Hall during the November 2026 General Election
Meeting Date:	May 11, 2026
Presented By:	Shannon Dujardin, Town Clerk
Presented For:	Approval

Background:
To participate in the coordinated election with Boulder County, the Town needs to approve the Intergovernmental Agreement. The IGA sets forth the tasks to be completed by the County Clerk and the Town for conducting and financing the Election.

The ballot will include the election of three Town Council Members and the Mayor. The County Clerk will contract with a vendor to prepare and print the ballots; prepare a mail ballot packet for each registered elector within the Jurisdiction; address a mail ballot packet to each elector within the Jurisdiction; and mail the ballots between 22 days and 18 days before Election Day, or between October 13, 2026, and October 16, 2026.

The County Clerk will provide Voter Service and Polling Centers from October 27, 2026, through Election Day. The County Clerk will hire and train staff to operate Voter Service and Polling Centers in up to four locations across Boulder County (Boulder, Lafayette, Longmont, and the University of Colorado - Boulder). There will be a ballot box at the Superior Town Hall parking lot for voters to drop off their ballots.

Recommendation:
Approve the Resolution approving the Intergovernmental Agreement with Boulder County for the November 3, 2026, Coordinated Election.

Budget Implications:

Motion:
Move to approve the Resolution approving the Intergovernmental Agreement with Boulder County for the November 3, 2026 Coordinated Election.

Attachments:
1. Boulder County VPSC-R041726
2. 2026-Superior Town Hall Election Coordination VSPC IGA_Final

Town of Superior
Resolution Number R-38
Series 2026

A Resolution of the Town Council of the Town of Superior Approving a Voter Service and Polling Center Use Intergovernmental Agreement with Boulder County for the Use of Town Hall during the November 2026 General Election

Now, Therefore, be it Resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Voter Service and Polling Center Use Intergovernmental Agreement between the Town and Boulder County is hereby approved in the form attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Voter Service and Polling Center Use Intergovernmental Agreement on behalf of the Town.

Adopted this 11 day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Voter Service and Polling Center Use Agreement

2026 General Election

This Voter Service and Polling Center Use Agreement ("Agreement") is made by and between the Board of County Commissioners on behalf of the County of Boulder, State of Colorado, a body corporate and politic, for the benefit of the Boulder County Clerk and Recorder (the "Clerk") and the Town of Superior, a Colorado home rule municipality (the "Town"), for the benefit of the Town Clerk (the "Property Representative") for the use of the Superior Town Hall at 124 E Coal Creek Drive, Superior, CO (the "Location") as a Voter Service and Polling Center ("VSPC") during the 2026 General Election. The Location will be used by the Clerk during the dates and times described below.

Exclusive Use of Town Hall Chambers

- Tuesday, October 27, 2026, through Friday, November 6, 2026

Access Hours for Clerk's Office Staff and Election Judges ("Access Hours")

Tuesday, Oct. 27 – Thursday, Oct. 29 (Set-up)	Normal business hours
Monday, November 2 (VSPC operations)	7:30AM - 8:00PM
Tuesday, November 3 (VSPC operations)	6:30 AM - 10:00PM
Wednesday, Nov. 4 – Friday, Nov. 6 (Takedown)	Normal business hours

Days and Hours of Operation of VSPC ("VSPC Hours")

Monday, November 2	8:00AM to 6:00PM
Tuesday, November 3 ("Election Day")	7:00AM to 7:00PM

As a civic service for the benefit of the People of Colorado and for consideration in the amount of $50.00, the sufficiency of which is hereby acknowledged by the Property Representative, the Clerk and the Property Representative agree as follows:

1. **Clerk Access.** The Property Representative will provide access to and use of the Location by the Clerk, the Clerk's staff, election judges, and election officials during the Access Hours. If the Clerk requires access outside of the Access Hours that is also outside of the Location's business hours, this will be arranged in advance with the Property Representative.

2. **Voter Access.** The Property Representative will permit access to the Location for individuals desiring to vote during the VSPC Hours, including those in line to vote prior to closing of the polls on Election Day.

3. **Inclement Weather.** The Property Representative will permit access to the Location for individuals desiring to vote as specified in Paragraph 2, even in the event of inclement weather that would otherwise close building activities at the Location. Exceptions may be made if it is determined that there is an imminent threat to life or safety in keeping the Location open. Should the Location close due to imminent threat, the Property Representative must notify the Clerk immediately. The Property Representative is responsible for clearing a safe and ADA-compliant pathway to enter the Location in event of inclement weather.

4. **Locks.** The Property Representative will change the locks for the area in the Location used for the VSPC or will permit the Clerk to facilitate the changing of the locks. If the Property Representative is changing the locks, they will notify the Clerk when the locks will be changed so the Clerk may be present. The Clerk requires five keys to any locks and any locked space within the Location. Only the

Clerk or the Clerk's employees will possess the keys. The Clerk or the Clerk's employees will be responsible for opening and closing the area during Access Hours. While the Clerk and/or the Clerk's employees are participating in the set-up and take down of the VSPC, only the Clerk's employees will be permitted in the VSPC. The Clerk's employees will return the keys to the Property Representative at the end of the Access Hours. The Clerk will reimburse the Property Representative for all reasonable costs associated with the lock changes, including labor and any materials not previously provided by the Clerk.

5. **Signs.** The Property Representative will permit the Clerk to place signs at the Location as follows with all signs to be removed by the end of the term of this Agreement:

a. At least 20 days before Election Day, signs identifying the location as a VSPC.
b. Other election-related signs as needed by the Clerk, including but not limited to directional signs and those indicating the 100-foot electioneering limit.
c. Temporary signage using non-permanent/non-damaging tape may be placed on the walls of the VSPC by election staff as needed to fulfill statutory, informational, and directional requirements.
d. Yard signs to assist in pedestrian directions.

6. **Electioneering.** The Property Representative understands that electioneering, including posting signs or communicating with voters related to an issue or candidate in the election, is not permitted within 100 feet of the Location when voting is permitted. Pursuant to C.R.S. § 1-13-714, the term "electioneering" includes campaigning for or against any candidate who is on the ballot or any ballot issue or ballot question that is on the ballot as well as the distribution or display of campaign posters, signs, or other campaign materials or apparel, including materials or apparel promoting or opposing a candidate or displaying a candidate's name, likeness, or campaign slogan. "Electioneering" also includes soliciting signatures for a candidate petition, a recall petition, or a petition to place a ballot issue or ballot question on a subsequent ballot. The Property Representative agrees that the Clerk and the Clerk's staff may take the steps they deem reasonably necessary to stop or prevent such electioneering.

<u>The Location is a multi-use building</u>. Pursuant to C.R.S. § 1-5-105(4), when a polling location is within a multi-use building, for electioneering purposes, "the 'building' is considered the room in which ballots are cast, any waiting room or hall where electors wait to vote, as well as a primary corridor where electors walk to an interior polling location or drop-off location, and the designated exterior door to multi-use building in which the polling location is located." At the Location, the main entrance doors leading to Town Hall Chambers are considered the designated exterior doorways. The 100-foot electioneering limit extends outside from these doors.

7. **Election Interference.** The Property Representative will refrain from erecting any sign, display, or other demonstration that may, in the judgment of the Clerk, have the effect of interfering or intimidating voters during VSPC Hours. The Clerk and the Clerk's employees may take steps they deem reasonably necessary to obscure or remove any sign, display or other demonstration that does not comply with applicable election laws.

8. **Location Requirements.** The Property Representative will ensure that the Location has appropriate heating, ventilation, network and internet access, and power for the term of this Agreement.

9. **Normal Operations.** The Clerk and the Clerk's employees will take all reasonably necessary steps to ensure that election operations at the Location will be peaceful, orderly, and not disruptive of any business activities at the Location.

10. **Cleanup.** The Clerk will take appropriate steps to ensure that Clerk's employees, including election judges and election workers at the Location, will properly dispose of all trash and expendable items related to the election and generally return the Location to pre-election condition.

11. **Damages.** The Clerk will be responsible for damage to the Location caused by the Clerk or persons acting under the direction or control of the Clerk. The Clerk will not be liable to the Town for any special, consequential, incidental, punitive, or indirect damages arising from or relating to this Agreement, regardless of any notice of the possibility of such damages. Notwithstanding any provision to the contrary, nothing in this Agreement will be construed in any way to be a waiver by either Party of the protection that is granted to the Clerk or the Town and their respective employees under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et. seq.

12. **Term.** The term of this agreement is October 27, 2026 – November 6, 2026.

13. **Payment.** The Clerk shall make payment of $50 to the Property Representative via preferred method of check or Boulder County card/vendor process no later than 60 days prior to Election Day. If applicable, the Property Representative will provide an invoice to the Clerk for costs associated with changing the locks at the Location. The Property Representative will provide the invoice to the Clerk no later than 15 days after Election Day, and the Clerk will pay the invoice within 30 days after receipt of the invoice.

14. **Governmental Immunity.** Each party hereto is a "public entity" under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, and will always during the terms of this Agreement maintain such liability insurance, by commercial policy or self-insurance, as is necessary to meet its liabilities under the Act. This insurance will have minimum limits, which will match or exceed the maximum governmental liability limits set forth in C.R.S. § 24-10-114, as amended.

The Parties have entered into this Agreement this ____ day of _____ 2026.

_____
Molly Fitzpatrick
Boulder County Clerk and Recorder

_____
Mark Lacis
Superior Mayor

Item Number:4.f.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior approving the First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement
Meeting Date:	May 11, 2026
Presented By:	Renae Stavros, Planning and Building Director
Presented For:	Approval

Background:
Kite Route Crossing LLC, is currently under construction on the approved Kite Route Crossing senior (persons aged 55+) affordable housing development, on the northernmost lot in Discovery Office Park, facing Old Rail Way (Lot 21, Block 1). In April 2024, the Town Council approved the Planned Development (PD) Amendment, and in September 2025, the Town Council approved the Final Development Plan for the site. The Affordable Housing Grant Agreement was first approved by the Town Council at the meeting on February 9, 2026. The Kite Route Crossing development leverages local, state, and federal resources to develop the project, which includes federal low-income housing tax credits, state affordable housing tax credits, federal Community Development Block Grants, and fee waivers from the Town of Superior.

The Town of Superior received an award of $1,000,000 from Boulder County for the 2026 Affordable Housing Grant Program to support the Kite Route Crossing senior affordable housing development project. Funding from this grant is being used for the construction of a new age-restricted LIHTC community in downtown Superior consisting of 50 affordable rental units serving households from 30% to 70% of Area Median Income. Funding may be used in accordance with the original AAHT Grant Agreement attached to the packet. Boulder County awarded the Town the AAHT Grant, and the Town is passing the funding through to the developer, Kite Route Crossing LLC. Original grant agreement documents included the agreement between Boulder County and the Town of Superior, along with agreements between the Town and Kite Route Crossing, LLC (property owner/developer). The documents approved in February 2026 ensure that the funds the Town receives from the County are used in accordance with the Grant Agreement.

The proposed First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement is being proposed to change the final date for Certificate of Occupancy from August

31, 2027, to December 31, 2027. It does not change any other grant requirements or approvals, and does not impact the agreements between the Town and Kite Route Crossing, LLC - those agreements speak to the AAHT Grant Agreement - so no changes are required with those agreements as part of this Amendment. The project is currently under construction and generally on schedule. The additional months provide a buffer for construction in advance of any unintended delays and do not impact any other project funding related to scope, requirements, or timelines.

Recommendation:
Should the Council find the proposed amendment acceptable, Staff has provided a Resolution for approval in the packet.

Budget Implications:
None

Motion:
Move to approve Resolution R-39, a resolution of the Town Council of the Town of Superior approving the First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement

Attachments:
1. AAHT Grant 1st Amend-R050126
2. Kite_Route_-AAHT_Funding_Agt_Amendment #1
3. Affordable Housing Grant Program_Funding Agreement_2026_Superior.EXECUTION VERSION

Town of Superior
Resolution Number R-39
Series 2026

A Resolution of the Town Council of the Town of Superior approving the First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement

Whereas, on _____, 2026, the Town and Boulder County entered into the 2026 Affordable Housing Grant Program Funding Agreement (the "Grant Agreement") to memorialize the terms and conditions for which Boulder County would award the Town a grant from its 2026 Affordable Housing Grant Program to support the Kite Route Crossing senior affordable housing development project (the "AAHT Grant"); and

Whereas, the Town Council finds it is in best interest of the public health, safety and welfare of the Town to amend the Grant Agreement to revise the Completion Date from August 31, 2027, to December 31, 2027.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement between the Town and Boulder County is hereby approved in the form attached hereto. Upon such approval, the Mayor is authorized to execute the First Amendment to the 2026 Affordable Housing Grant Program Funding Agreement on behalf of the Town.

Adopted this __ day of _____, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Docusign Envelope ID: 4903A953-D547-8D2E-80E0-EC9F236AF95E

Boulder County
First Amendment to
2026 Affordable Housing Grant Program
Funding Agreement

AMENDMENT SUMMARY	
Contract Identification	
Oracle Number	800263
Version	2
County Information	
Office or Department	Board of County Commissioners
County Contact Name and Email	Michelle Alexander malexander@bouldercounty.gov
Recipient Information	
Legal Name	Town of Superior
Signature Name and Email	Mark Lacis, Mayor - markl@superiorcolorado.gov
Other Contact Name and Email	Renae Stavros – renaes@superiorcolorado.gov
Amendment Effective Date	
Amendment Effective Date	April 23, 2026

THIS FIRST AMENDMENT (the "Amendment") to Boulder County Affordable Housing Grant Program Funding Agreement ("Agreement") is entered into by and between the Board of County Commissioners on behalf of the County of Boulder, State of Colorado, a body corporate and politic ("County") and the Town of Superior, a Colorado home rule municipality ("Recipient"). County and Recipient are each a "Party," and together, the "Parties."

To align with the Project's schedule, the Parties desire to amend the Completion Date (as defined in the Agreement) from August 31, 2027 to December 31, 2027. Accordingly, the Parties agree as follows:

1. Defined Terms. Capitalized terms not otherwise defined herein shall have the same definition as those terms defined in the Agreement.

2. Amendment to Completion Date. The definition of Completion Date for the Project is revised to mean December 31, 2027.

3. Effect on the Agreement. Except as specifically modified by this Amendment, the Agreement continues unmodified and remains in full force and effect.

[SIGNATURE PAGE TO FOLLOW]

IN WITNESS WHEREOF, the Parties have executed and entered into this Amendment as of the Amendment Effective Date.

SIGNED for and on behalf of Boulder County	**SIGNED for and on behalf of Recipient**
Signature: Susana Lopez-Baker	Signature:
Name: Susana Lopez-Baker	Name: Mark Lacis
Title: Director, Housing Department	Title: Mayor
Date: April 23, 2026	Date:
↓↓*For Board-signed documents only*↓↓	
Attest: *Initials*	*For Recipient* Attest:
Attestor Name:	
Attestor Title:	

Certificate Of Completion

Envelope Id: 4903A953-D547-8D2E-80E0-EC9F236AF95E
Status: Delivered
Subject: Kite Route - Funding Agt Amendment
Type of Document:
Grant Agreement
Department/Office: County Attorney
Source Envelope:
Document Pages: 2 Signatures: 1 Envelope Originator:
Certificate Pages: 2 Initials: 0 April Gatesman
AutoNav: Enabled 2025 14th St
EnvelopeId Stamping: Enabled Boulder, CO 80302
Time Zone: (UTC-07:00) Mountain Time (US & Canada) agatesman@bouldercounty.org
IP Address: 76.25.245.52

Record Tracking

Status: Original Holder: April Gatesman Location: DocuSign
4/23/2026 4:57:09 PM agatesman@bouldercounty.org
Security Appliance Status: Connected Pool: StateLocal

Signer Events	Signature	Timestamp
Mark Lacis markl@superiorcolorado.gov Mayor Security Level: Email, Account Authentication (None) **Electronic Record and Signature Disclosure:** Not Offered via Docusign		Sent: 4/23/2026 5:02:59 PM Resent: 4/23/2026 5:25:54 PM Viewed: 4/27/2026 8:49:53 AM
Susana Lopez-Baker slopez-baker@bouldercounty.org Boulder County Housing Authority Executive Director Boulder County Housing Authority Security Level: Email, Account Authentication (None) **Electronic Record and Signature Disclosure:** Not Offered via Docusign	Susana Lopez-Baker Signature Adoption: Pre-selected Style Using IP Address: 174.211.235.194 Signed using mobile	Sent: 4/23/2026 5:02:58 PM Viewed: 4/23/2026 9:13:23 PM Signed: 4/23/2026 9:14:56 PM

In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/23/2026 5:02:59 PM

Envelope Summary Events	Status	Timestamps
Envelope Updated	Security Checked	4/23/2026 5:25:53 PM
Certified Delivered	Security Checked	4/23/2026 9:13:23 PM
Signing Complete	Security Checked	4/23/2026 9:14:56 PM

Payment Events	Status	Timestamps

Boulder County
2026 Affordable Housing Grant Program
Funding Agreement

SUMMARY	
Contract Identification	
Oracle Number	800263
Accounting String	AFT1 Affordable and Attainable Housing SUT
Agreement Name	Superior-HD-AAHT Grant Kite Route Crossing
Funding Cycle	2026
County Information	
Office or Department	Board of County Commissioners
Mailing Address	P.O. Box 471 Boulder, CO 80306
Email to Submit Reports	malexander@bouldercounty.gov
County Contact Name and Email	Michelle Alexander malexander@bouldercounty.gov
Recipient Information	
Legal Name	Town of Superior
Mailing Address	124 E Coal Creek Drive, Superior CO 80027
Signature Name and Email	Mark Lacis, Mayor - markl@superiorcolorado.gov
Other Contact Name and Email	Renae Stavros – renaes@superiorcolorado.gov
Term	
Start Date	February 25, 2026
Amount	
Funding Amount (not to exceed)	$1,000,000
Agreement Documents	
Exhibit A – Project Details & Use of Funds Exhibit B – Reporting Requirements Exhibit C – Procurement & Cost Principles	

THIS Boulder County Affordable Housing Grant Program Funding Agreement ("Agreement") is entered into by and between the Board of County Commissioners on behalf of the County of Boulder, State of Colorado, a body corporate and politic ("County") and the Town of Superior, a Colorado home rule municipality ("Recipient"). County and Recipient are each a "Party," and together, the "Parties."

RECITALS

A. The County has authority to enter into this Agreement pursuant to Board of County Commissioners' Resolution No. 2023-070 and 2023 County Ballot Issue 1B, "Affordable Housing Extension," adopted by voters of the County of Boulder in November of 2023, approving the extension of a 0.185% sales and use tax for fifteen years (from January 1, 2025 through December 31, 2039) for the purposes of funding affordable and attainable housing and related housing support services within the County of Boulder (the "Affordable and Attainable Housing Tax").

B. The County has set aside certain moneys from the Affordable and Attainable Housing Tax revenues for the creation and development of new affordable housing units within the boundaries of its jurisdiction, and specifically, to fund capital projects in the County of Boulder meeting criteria established by the Board of County Commissioners (the "Board") and consistent with Resolution 2023-070 (the "Affordable Housing Grant Program").

C. The Board has established an Affordable Housing Development Fund Advisory Committee ("Committee") to provide advisory support related to Affordable Housing Grant Program funds that will be used for capital projects located within unincorporated Boulder County or any municipality therein other than the Cities of Longmont and Boulder.

D. The Committee has recommended, and the BOCC has approved, funding for the capital project described in further detail in Exhibit A – Project Details & Use of Funds (the "Project').

AGREEMENT

1. Incorporation into Agreement. The Summary, Recitals, and Agreement Documents are incorporated into this Agreement.

2. Use of Funds. Recipient will cause the Funding Amount, and any interest generated therefrom, to be used solely for the purpose(s) set forth in Exhibit A and in compliance with the terms of this Agreement. The Funding Amount may not be used (a) to replace another source of funding that is appropriated, allocated or otherwise available to support the Project or (b) make payments to a jurisdiction for purposes of relieving performance obligations related to development of affordable housing.

3. Term. The term of this Agreement begins on the Start Date and is in effect through the Affordability Period, as defined in Exhibit A.

4. Payment of Grant Funding. County will disperse the Funding Amount in accordance with Exhibit A – Project Details & Use of Funds.

5. Project Partners. Recipient may transfer the Funding Amount to a third-party governmental entity, nonprofit affordable housing provider or a Qualified Entity for purposes of undertaking the Project in strict compliance with this Agreement ("Project Partner") only if Recipient (a) causes the Project Partner to comply with the terms of this Agreement, and (b) remains liable to the County for all obligations hereunder. A "Qualified Entity" means a Colorado for-profit company in which a housing authority located in Boulder County is a limited partner or non-manager member (a "Limited Partner") provided that (i) the Limited Partner retains a right of first refusal to purchase the Project and (ii) the Project meets the applicable requirements of CHFA's Housing Tax Credit Qualified Allocation Plan (QAP), the Federal Code, and the Colorado Act (in the case of state credits), including the contractor and developer fee limits in the QAP.

6. Affordability Covenant. A Land Use Restriction Agreement in favor of the Colorado Housing and Financing Authority must be recorded against the Project promptly following stabilization .

7. Records. During the term of this Agreement and for five years thereafter, Recipient must collect and retain adequate documentation and reasonable records related in any manner to this Agreement and the Project, including supporting documentation for all expenditures of the Funding Amount, contracts, purchase orders, invoices, records, communications, financial statements, notes and other written materials, electronic media files, and communications ("Project Records")

8. Monitoring. County may access, audit, review and copy Project Records at any time for purposes of confirming compliance with this Agreement. County may conduct periodic site visits of the Project at reasonable times and upon at least 72 hours advance notice for purposes of confirming compliance with this Agreement.

9. Event of Default. An "Event of Default" will occur if:

a. Recipient fails to perform any of its obligations under, or otherwise comply with the terms of, this Agreement and does not cure such failure within 30 days after County provides written notice specifying the non-compliance;

b. All or any part of Recipient's or a Project Partner's interest in the Project is transferred without the County's prior written consent;

c. Recipient or Project Partner files a petition for any proceedings under federal or state bankruptcy acts or other similar-type proceedings seeking protection from creditors that is not dismissed within 120 days thereafter; or

d. Recipient or Project Partner assigns any interest in the Project for the benefit of creditors, except for mortgages or deeds of trust given as security for one or more loans obtained to finance the Project or from time to time in the ordinary course of business.

10. Remedies for Non-Compliance: In an Event of Default, the County may, in its sole discretion and in addition to any remedies available at law or in equity, terminate this Agreement, require repayment to County of all or any part of the Funding Amount and determine that Recipient is ineligible to apply for future funds from the Affordable Housing Grant Program.

11. Future Awards: Disbursement of the Funding Amount is no indication that Recipient or the Project will benefit from future awards of Affordable Housing Grant Program funding or any other County funds.

12. Insurance: Recipient is a "public entity" under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended, and shall always during the terms of this Funding Agreement maintain such liability insurance, by commercial policy or self-insurance, as is necessary to meet its liabilities under the Act. This insurance shall have minimum limits, which shall match or exceed the maximum governmental liability limits set forth in C.R.S. § 24-10-114, as amended. To the extent Recipient transfers the Funding Amount to a Project Partner that is a Qualified Entity, Project Partner will maintain insurance coverage in compliance with the terms of its operating agreement.

13. Indemnity: To the extent Recipient transfers the Funding Amount to a Project Partner, the Project Partner will indemnify and hold harmless the County, its elected officials, appointed department heads, employees, agents and representatives (the "indemnified parties"), from liability resulting from a third party claim brought against any of the indemnified parties to the extent arising out of the negligent actions or omissions of, or breach of this Funding Agreement by Project Partner or its employees, agents or representatives, or persons acting under its direction or control.

14. Liability: Each Party is responsible for its negligent acts or omissions, and those of its elected officials, department heads, officers, agents, employees, and representatives with respect to its obligations under this Agreement.

15. Communications: All communications under this Agreement must be in writing and sent to the other Party's contact at the mailing address or email address specified in the Summary. All U.S. Mail must be sent via certified mail. For certified mailings, notice periods will begin to run on the day after the postmarked date of mailing. For electronic mail, notice periods will begin to run on the date of delivery

16. Entire Agreement/Binding Effect/Amendments: This Agreement represents the complete agreement between the Parties and is fully binding upon them and their successors, heirs, and assigns, if any. This Agreement terminates any prior agreements, whether written or oral in whole or in part, between the Parties relating to the subject matter hereof. This Agreement may be amended only by a written agreement signed by both Parties.

17. Assignment: Except as otherwise set forth herein, this Agreement may not be assigned or subcontracted without written consent of the County.

18. Governing Law/Venue: The laws of the State of Colorado govern the construction, interpretation, performance, and enforcement of this Agreement. Any claim relating to this Agreement or breach thereof may only be brought exclusively in the Courts of the 20th Judicial District of the State of Colorado and the applicable Colorado Appellate Courts.

19. Statutory Requirements: This Agreement is subject to all statutory requirements that are or may become applicable to counties or political subdivisions of the State of Colorado.

20. No Waiver: The failure of either Party to exercise any of its rights under this Agreement will not be deemed to be a waiver of such rights or a waiver of any breach of the Agreement. All remedies available to a Party in this Agreement are cumulative and in addition to every other remedy provided by law.

21. Severability: If any provision of this Agreement becomes inoperable for any reason but the fundamental terms and conditions continue to be legal and enforceable, then the remainder of the Agreement will continue to be operative and binding on the Parties.

22. Third-Party Beneficiary: Enforcement of the terms and conditions and all rights and obligations of this Agreement are reserved to the Parties. Any other person receiving services or benefits under this Agreement is an incidental beneficiary only and has no rights under this Agreement.

23. Conflict of Provisions: If there is any conflict between the terms of the main body of this Agreement and the terms of any of the Agreement Documents, the terms of the main body of the Agreement will control.

24. Governmental Immunity: Nothing in this Agreement shall be construed in any way to be a waiver of the County's or Recipient's immunity protection under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended.

25. Representations and Warranties: Recipient represents and warrants the following:

a. Execution of this Agreement and performance of its obligations are within Recipient's duly authorized powers;

b. The individual executing this Agreement is authorized to do so by Recipient; and

c. Recipient is authorized to do business in the State of Colorado and is properly licensed by all necessary governmental and public and quasi-public authorities having jurisdiction over the Recipient.

26. Legal Compliance: Recipient will comply with all applicable Federal, State, and local laws, regulations, ordinances, and codes.

27. Publicity Releases: Recipient and the County may issue press releases, respond to comments, and provide other public information relevant to this Agreement and will communicate in advance to the extent practicable.

28. Execution by Counterparts; Electronic Signatures: This Agreement may be executed in multiple counterparts, each of which will be deemed an original, but all of which will constitute one agreement. The Parties approve the use of electronic signatures, governed by the Uniform Electronic Transactions Act, C.R.S. §§ 24 71.3 101 to 121. The Parties will not deny the legal effect or enforceability of this Agreement solely because it is in electronic form or because an electronic record was used in its creation. The Parties will not object to the admissibility of this Agreement in the form of electronic record, or paper copy of an electronic document, or paper copy of a document bearing an electronic signature, because it is not in its original form or is not an original.

[SIGNATURE PAGE TO FOLLOW]

IN WITNESS WHEREOF, the Parties have executed and entered into this Agreement as of the latter day and year indicated below.

SIGNED for and on behalf of Boulder County		**SIGNED for and on behalf of Recipient**
Signature: Susana Lopez-Baker		Signature: Mark Lacis
Name: Susana Lopez-Baker		Name: Mark Lacis
Title: Housing Director		Title: Mayor
Date: February 27, 2026		Date: February 27, 2026
↓↓*For Board-signed documents only*↓↓		
Attest:	*Initials*	*For Recipient* Attest:
Attestor Name:		
Attestor Title:		

APPROVED

By Boulder County Attorney (apg) APPROVED as to FORM at 1:23 pm, Feb 25, 2026

EXHIBIT A
PROJECT DETAILS & USE OF FUNDS

Project: Kite Route Crossing
Kite Route Crossing is a new construction, age-restricted LIHTC community in downtown Superior consisting of 50 affordable rental units serving households from 30% to 70% of Area Median Income.

Address: 2101 Old Rail Way, Superior CO 80027
Total Units: 50
Infill units: 50
Recent local or state zoning changes incorporated: Final Development Plan approved and recorded 09/2026
Density: 28.4 du/Acre
Proximity to transit: adjacent to RTD bus route
Energy Efficiency designations or additions outside of building code requirements: Enterprise Green Communities

Affordability Requirements)

6 Units 0-30% AMI
29 Units 31-60% AMI
15 Units 61-80% AMI

Target Population(s)

50 Units Senior

The Project must receive a Certificate of Occupancy from the relevant governing authority no later than August 31, 2027 ("Completion Date") and meet the Affordability Requirements for a minimum of 40 years ("Affordability Period"). Rent may not exceed the Affordability Requirements as determined by the U.S. Department of Housing and Urban Development, with adjustments for number of bedrooms in the unit.

Use of Funds:
Funding Amount may only be used for capital expenditures (a) directly related to the Project, (b) in accordance with the terms of this Agreement, including the budget set forth below, and (c) incurred between the Start Date and Expenditure Date (defined below).

BUDGET

Property Acquisition	$1,663,000
Hard Costs	$15,161,698
Soft Costs	$3,287,465
Financing Costs	$1,623,512
Reserves & Contingencies	$1,409,029
Developer Fee	$3,127,000
TOTAL COSTS	**$26,271,703**

No material changes may be made to the budget without the County's consent.

Funding amount must be fully expended no later than 24 months following disbursement ("Expenditure Date").

Funding Conditions: The County will disburse the Funding Amount to Recipient following delivery to County of the following:

1. Executed copy of this Agreement;
2. Copy of the Recipient's W-9 Form;
3. Evidence of insurance coverage if required by Section 12;
4. Evidence of site control;
5. Any other requirements requested in writing by the County to the Recipient prior to the execution of this Agreement.

EXHIBIT B
REPORTING REQUIREMENTS

1. By January 31st of each calendar year following year one, Recipient must deliver to County:
   a. An annual report that includes:
      - Project status, including permitting and entitlement progress;
      - Project budget, including sources and uses statement, municipal funds, dollars leveraged, other subsidies or financial incentives utilized, non-subsidized funding
      - Estimated timeline for full deployment of Funding Amount
      - Demographic Data, including community demographic data broken down by race/ethnicity, number of clients expected to be served by each funded project, broken down by race/ethnicity
      - Evidence of Recipient's continuing commitment to the Project and increase in overall availability of affordable housing in its jurisdiction, including:
        - Incentives (including fee waivers) made available by the Recipient to support the development of affordable housing;
        - To the extent inclusionary housing requirements are in place within Recipient's jurisdiction, number of units for which fee was paid by a developer in lieu of providing such unit
        - Progress toward completion of 12% affordable housing goal within the jurisdiction
      - All expenditures of the Funding Amount made to date accompanied by supporting documentation that sufficiently demonstrates compliance with this Agreement, as determined by the County in its discretion.
      - Other Project-related information as reasonably requested by County
      - A completed Housing Assessment for its jurisdiction.

   b. Written certification of compliance with this Agreement and the Affordable Housing Grant Program terms and conditions in a form acceptable to the County

2. No later than one month after the Expenditure Date, Recipient must provide County with sufficient documentation that the Funding Amount has been fully expended in the Project.

3. No later than one month after the Completion Date, Recipient must deliver sufficient evidence of Project Completion to the County.

4. Within 10 days after being served with any pleading in a legal action filed with a court or administrative agency related to the Project or Recipient's ability to perform its obligations hereunder, Recipient will notify the County of such action and deliver to County copies of such pleadings.

5. If the Recipient becomes aware of any situation, event, or condition which, to the best of its knowledge, may result in noncompliance of the Project or the Recipient with this Agreement, the Recipient will promptly give written notice thereof to the County.

EXHIBIT C
COST PRINCIPLES & PROCUREMENT

COST PRINCIPALS

All Funding Amount expenditures must be made in accordance with the following cost principles: requirements:

- All expenditures must be adequately documented and made in a cost-effective manner.
- Costs must be reasonable, meaning that, in its nature and amount, it does not exceed that which would be incurred by a prudent person under the circumstances prevailing at the time the decision was made to incur the cost. Other applicable guidance for cost-reasonableness includes whether the cost is of a type generally recognized as ordinary and necessary for operation or proper performance; sound and prudent business practices; market prices for the geographic area; and awardee's established practices and policies (see, for example, 2 CFR 200.404);
- Costs must be allowable, meaning that it is necessary and reasonable for the completion of the Project, consistent with applicable law, policy, and procedures; accorded consistent treatment and determined in accordance with generally accepted accounting principles (GAAP); and otherwise complies with the terms of this Agreement.

PROCUREMENT

- Recipient will cause all third-party contractors to (a) maintain safety precautions and programs in connection with their work on the Project to ensure a safe worksite and (b) pay all employees and subcontractors engaged in the performance of work on the Project competitive rates that are consistent with industry standards and reflective of the prevailing wages for similar work within the geographic area where the work is performed.

Item Number:4.g.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving an Agreement renewal with Goat Bros for Goat Grazing Services
Meeting Date:	May 11, 2026
Presented By:	Leslie Clark, Parks, Recreation and Open Space Director, Brooke Badon, Grants Administrator, Allison James, Disaster Preparedness and Recovery Manager
Presented For:	Approval

Background:

The Town of Superior experienced the tragic Marshall Fire in December 2021, destroying and damaging homes, businesses, public facilities, and infrastructure. Goat grazing for vegetative fuels reduction is a vital component of our wildfire mitigation strategy, offering an environmentally friendly, cost-effective method to manage overgrown and fire-prone landscapes. Goats efficiently clear grasses, brush, and ladder fuels—even on steep or inaccessible terrain—reducing the intensity and spread of potential of wildfires. This nature-based solution minimizes the need for chemicals or heavy equipment, preserving soil health and biodiversity. Including a community education component helps residents understand local wildfire risks, promotes land stewardship, and encourages broader support for proactive mitigation efforts that protect both people and ecosystems.

Grant Purpose:
The FEMA HMGP awards funds to support hazard mitigation for solutions that reduce the impact of disasters in the future. This mitigation planning and actions break the cycle of disaster damage, reconstruction, and repeated damage in the future. The Town applied for a three-year funding package through the FEMA Hazard Mitigation Grant Program (HMGP) and received approval for Year One funding of this grant for wildfire fuel mitigation.

The agreement for 2026 - 2027 covers 102 days of grazing with a 300-goat herd in four locations. Pending the annual HMGP grant funding award, the option to renew for one additional one-year term is available.

Project Reference Areas	Parcel Name	Acres
X	Tract H - Vista Corridor	17
Z	Coyote Ridge	40
I	Tract E - McCaslin to Indiana	25
J	Fire Station Park	20
Total Project Acres		102

Recommendation:
Staff recommend approving the agreement renewal with Goat Bros for the 2026–2027 FEMA HMGP Project.

Budget Implications:
The 2026 - 2027 period of Goat Grazing within the HMGP grant represents approximately 102 days and $110,000 for the total contract amount. The local match that the Town is obligated to cover is 17.4% or $19,140. This is a reimbursable grant program, and the Town will pay the full contract amount to the vendor and then submit for FEMA reimbursement. Funding for this contract will be from the Town Open Space Budget (71-471-6913).

Budget Center Cost	Budget Amount	Project Cost	Open Space Fules Mitigation Budget
HMGP Grant	$90,860		
Town Match — Open Space Budget	$19,140		
Total Project Cost		$110,000	$674,496

Motion:
Move to approve a Resolution approving an Agreement renewal with Goat Bros. for 2026 - 2027 FEAM HMGP- funded goat grazing in the amount of $110,000

Attachments:

1. Resolution to Approve Goat Bros. Goat Grazing Services
2. Agreement Goat Grazing 2026 w Federal Funds

Town of Superior
Resolution Number R - 40
Series 2026

A Resolution of the Town Council of the Town of Superior
Approving an Agreement with Goat Bros. for Goat Grazing Services

Whereas, the Town experienced the tragic Marshall Fire in 2021;

Whereas, the Town received grant funding through the FEMA Hazard Mitigation Grant Program to address wildfire mitigation efforts throughout Town; and

Whereas, the Town solicited for goat grazing services as a method of wildfire Hazard Mitigation Fuels Reduction; and

Whereas, the Town Council finds it in the best interest of the public to engage in goat grazing services to reduce wildfire hazards in Town-managed open space; and

Whereas, Goat Bros. has been a successful goat grazing vendor with the Town of Superior for several years and scored highest in the 2025 solicitation for goat grazing services.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Agreement for Services between the Town and Goat Bros., is hereby approved in substantially the same form as attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Agreement for Services on behalf of the Town.

Adopted this 11h day of May, 2026.

_____
Mark Lacis, Mayor

Attest:

_____
Shannon Dujardin, Town Clerk

AGREEMENT FOR SERVICES

THIS AGREEMENT FOR SERVICES (the "Agreement") is made and entered into this _____ day of May, 2026 (the "Effective Date"), by and between the Town of Superior, a Colorado municipal corporation with an address of 124 East Coal Creek Drive, Superior, CO 80027 (the "Town"), and Goat Bros, LLC, an independent contractor with a principal place of business at 190 Lane Court, Fort Lupton, CO 80621 (each a "Party" and collectively the "Parties").

WHEREAS, the Town requires services; and

WHEREAS, Contractor has held itself out to the Town as having the requisite expertise and experience to perform the required services.

NOW THEREFORE, for the consideration hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

I. SCOPE OF SERVICES

A. Contractor shall furnish all labor and materials required for the complete and prompt execution and performance of all duties, obligations, and responsibilities which are described or reasonably implied from the Scope of Services set forth in **Exhibit A**, attached hereto and incorporated herein by this reference.

B. A change in the Scope of Services shall not be effective unless authorized as an amendment to this Agreement. If Contractor proceeds without such written authorization, Contractor shall be deemed to have waived any claim for additional compensation, including a claim based on the theory of unjust enrichment, quantum merit or implied contract. Except as expressly provided herein, no agent, employee, or representative of the Town is authorized to modify any term of this Agreement, either directly or implied by a course of action.

II. TERM AND TERMINATION

A. This Agreement shall commence on the Effective Date, and shall continue until Contractor completes the Scope of Services to the satisfaction of the Town, or until terminated as provided herein.

B. Either Party may terminate this Agreement upon 30 days advance written notice. The Town shall pay Contractor for all work previously authorized and completed prior to the date of termination. If, however, Contractor has substantially or materially breached this Agreement, the Town shall have any remedy or right of set-off available at law and equity.

C. Renewal Option. The Town shall have the option to renew this Agreement for an additional 1-year term by providing written notice of renewal to Contractor no later than 30 days after Contractor provides the Town with an updated Scope of Services each year, for up to 2 additional 1-year terms.

III. COMPENSATION

In consideration for the completion of the Scope of Services by Contractor, the Town shall pay Contractor $110,000. This amount shall include all fees, costs and expenses incurred by Contractor, and no additional amounts shall be paid by the Town for such fees, costs and expenses. Contractor shall not be paid until the Scope of Services is completed to the satisfaction of the Town.

IV. RESPONSIBILITY

A. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and licenses in good standing, required by law. The work performed by the Contractor shall be in accordance with generally accepted practices and the level of competency presently maintained by other practicing contractors in the same or similar type of work in the applicable community. The work and services to be performed by Contractor hereunder shall be done in compliance with applicable laws, ordinances, rules, and regulations.

B. The Town's review, approval or acceptance of, or payment for any services shall not be construed to operate as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

C. Contractor shall at all times comply with all applicable law, including without limitation all current and future federal, state and local statutes, regulations, ordinances and rules relating to: the emission, discharge, release or threatened release of a Hazardous Material into the air, surface water, groundwater or land; the manufacturing, processing, use, generation, treatment, storage, disposal, transportation, handling, removal, remediation or investigation of a Hazardous Material; and the protection of human health, safety or the indoor or outdoor environmental, including without limitation the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601, *et seq*. ("CERCLA"); the Hazardous Materials Transportation Act, 49 U.S.C. § 1801, *et seq*.; the Resource Conservation and Recovery Act, 42 U.S.C. § 6901, *et seq*. ("RCRA"); the Toxic Substances Control Act, 15 U.S.C. § 2601, *et seq*.; the Clean Water Act, 33 U.S.C. § 1251, *et seq*.; the Clean Air Act; the Federal Water Pollution Control Act; the Occupational Safety and Health Act; all applicable environmental statutes of the State of Colorado; and all other federal, state or local statutes, laws, ordinances, resolutions, codes, rules, regulations, orders or decrees regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance or material, as now or at any time hereafter in effect.

V. OWNERSHIP

Any materials, items, and work specified in the Scope of Services, and any and all related documentation and materials provided or developed by Contractor shall be exclusively owned by the Town. Contractor expressly acknowledges and agrees that all work performed under the Scope of Services constitutes a "work made for hire." To the extent, if at all, that it does not constitute a "work made for hire," Contractor hereby transfers, sells, and assigns to the Town all of its right, title, and interest in such work. The Town may, with respect to all or any portion of such work,

use, publish, display, reproduce, distribute, destroy, alter, retouch, modify, adapt, translate, or change such work without providing notice to or receiving consent from Contractor; provided that Contractor shall have no liability for any work that has been modified by the Town.

VI. INDEPENDENT CONTRACTOR

Contractor is an independent contractor. Notwithstanding any other provision of this Agreement, all personnel assigned by Contractor to perform work under the terms of this Agreement shall be, and remain at all times, employees or agents of Contractor for all purposes. Contractor shall make no representation that it is a Town employee for any purposes.

VII. INSURANCE

A. Contractor agrees to procure and maintain, at its own cost, a policy or policies of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by Contractor pursuant to this Agreement. At a minimum, Contractor shall procure and maintain, and shall cause any subcontractor to procure and maintain, the insurance coverages listed below, with forms and insurers acceptable to the Town.

1. Worker's Compensation insurance as required by law.

2. Commercial General Liability insurance with minimum combined single limits of $1,000,000 each occurrence and $2,000,000 general aggregate. The policy shall be applicable to all premises and operations, and shall include coverage for bodily injury, broad form property damage, personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall contain a severability of interests provision, and shall include the Town and the Town's officers, employees, and contractors as additional insureds. No additional insured endorsement shall contain any exclusion for bodily injury or property damage arising from completed operations.

B. Such insurance shall be in addition to any other insurance requirements imposed by law. The coverages afforded under the policies shall not be canceled, terminated or materially changed without at least 30 days prior written notice to the Town. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Any insurance carried by the Town, its officers, its employees, or its contractors shall be excess and not contributory insurance to that provided by Contractor. Contractor shall be solely responsible for any deductible losses under any policy.

C. Contractor shall provide to the Town a certificate of insurance as evidence that the required policies are in full force and effect. The certificate shall identify this Agreement.

VIII. INDEMNIFICATION

Contractor agrees to indemnify and hold harmless the Town and its officers, insurers, volunteers, representative, agents, employees, heirs and assigns from and against all claims, liability, damages, losses, expenses and demands, including attorney fees, on account of injury, loss, or damage, including without limitation claims arising from bodily injury, personal injury, sickness, disease, death, property loss or damage, or any other loss of any kind whatsoever, which arise out

of or are in any manner connected with this Agreement if such injury, loss, or damage is caused in whole or in part by, the act, omission, error, professional error, mistake, negligence, or other fault of Contractor, any subcontractor of Contractor, or any officer, employee, representative, or agent of Contractor, or which arise out of a worker's compensation claim of any employee of Contractor or of any employee of any subcontractor of Contractor.

IX. MISCELLANEOUS

A. *Governing Law and Venue*. This Agreement shall be governed by the laws of the State of Colorado, and any legal action concerning the provisions hereof shall be brought in Boulder County, Colorado.

B. *No Waiver*. Delays in enforcement or the waiver of any one or more defaults or breaches of this Agreement by the Town shall not constitute a waiver of any other terms or obligations of this Agreement.

C. *Integration*. This Agreement constitutes the entire agreement between the Parties, superseding all prior oral or written communications.

D. *Third Parties*. There are no intended third-party beneficiaries to this Agreement.

E. *Notice*. Any notice under this Agreement shall be in writing, and shall be deemed sufficient when directly presented or sent pre-paid, first class U.S. Mail to the Party at the address set forth on the first page of this Agreement.

F. *Severability*. If any provision of this Agreement is found by a court of competent jurisdiction to be unlawful or unenforceable for any reason, the remaining provisions hereof shall remain in full force and effect.

G. *Modification*. This Agreement may only be modified upon written agreement of the Parties.

H. *Assignment*. Neither this Agreement nor any of the rights or obligations of the Parties shall be assigned by either Party without the written consent of the other.

I. *Governmental Immunity*. The Town and its officers, attorneys and employees, are relying on, and do not waive or intend to waive by any provision of this Agreement, the monetary limitations or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, or otherwise available to the Town and its officers, attorneys or employees.

J. *Rights and Remedies*. The rights and remedies of the Town under this Agreement are in addition to any other rights and remedies provided by law. The expiration of this Agreement shall in no way limit the Town's legal or equitable remedies, or the period in which such remedies may be asserted, for work negligently or defectively performed.

K. *Subject to Annual Appropriation*. Consistent with Article X, § 20 of the Colorado Constitution, any financial obligation of the Town not performed during the current fiscal year is

subject to annual appropriation, shall extend only to monies currently appropriated, and shall not constitute a mandatory charge, requirement, debt or liability beyond the current fiscal year.

XI. FEDERAL PROVISIONS

A. *General*. The Parties acknowledge that the Agreement is subject to the provisions of 2 C.F.R. Part 200 for projects funded in whole or in part by federal funds and the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. § 5121, *et seq*.) for projects resulting from Declared Presidential Disasters.

B. *Equal Employment Opportunity*.

1. Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include without limitation the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

3. Contractor shall not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with Contractor's legal duty to furnish information.

4. Contractor shall send to each labor union or representative of workers with which Contractor has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of Contractor's commitments under this Section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

5. Contractor shall furnish all information and reports required by Executive Order 11246 and by rules, regulations, and orders of the Secretary of Labor pursuant thereto, and shall permit access to his books, records, and accounts by the administering agency and the

Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

6. In the event of Contractor's noncompliance with this section, this Agreement may be canceled, terminated, or suspended in whole or in part and Contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

7. Contractor shall include these provisions in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor, so that such provisions will be binding upon each subcontractor or vendor. Contractor shall take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, Contractor may request the United States to enter into such litigation to protect the interests of the United States.

C. *Contract Work Hours and Safety Standards Act*. Contractor shall comply with the following:

1. Neither Contractor nor any subcontractor employing laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which they are employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than 1.5 times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

2. In the event of any violation of the clause set forth in subsection (1) hereof, Contractor and any subcontractor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subsection (1) hereof, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of required overtime wages required.

3. The Town shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by Contractor or subcontractor under any such contract or any other federal contract with the same Contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages.

4. Contractor or subcontractor shall insert in any subcontracts the clauses set forth in this Section and also a clause requiring the subcontractors to include these clauses in any

lower tier subcontracts. Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with this Section.

5. The requirements of 40 U.S.C. § 3704 apply. No laborer or mechanic may be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

D. *Rights to Inventions Made*. If the federal award providing funding for this Agreement meets the definition of "funding agreement" under 37 C.F.R. § 401.2(a) and this Agreement is between the Town and a small business firm or nonprofit organization regarding the substitution of parties, assignment, or performance of experimental, developmental, or research work under such funding agreement, the Parties shall comply with and be bound by 37 C.F.R. Part 401 and any implementing regulations issued by the awarding agency.

E. *Clean Air Act and Clean Water Act*. Contractor shall comply with the Clean Water Act and shall report each violation to the Town, and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the State of Colorado, the federal awarding agency, and the appropriate Environmental Protection Agency Regional Office, and shall require all subcontractors to these requirements in each subcontract exceeding $100,000 financed in whole or in part with a federal award. Contractor shall comply with the Federal Water Pollution Control Act and shall report each violation to the Town and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the State of Colorado, federal awarding agency, and the appropriate Environmental Protection Agency Regional Office. Contractor agrees to include these requirements in each subcontract exceeding $100,000 financed in whole or in part with a federal award.

F. *Energy Efficiency*. Contractor shall comply with mandatory standards and policies relating to energy efficiency contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6201), and shall include this clause in each third-party subcontract financed in whole or in part with federal assistance.

G. *Debarment and Suspension*.

1. Contractor affirms that neither it nor its principals are suspended or debarred or otherwise excluded from procurement by the Federal Government and do not appear in the SAM Exclusions, which is a list maintained by the General Services Administration.

2. If the Agreement is for $25,000 or more:

a. Contractor verifies that neither Contractor nor its principals (defined at 2 C.F.R. §180.995) or affiliates (defined at 2 C.F.R. §180.905) are excluded (defined at 2 C.F.R. §180.940) or disqualified (defined at 2 C.F.R. §180.935);

b. Contractor shall comply with 2 C.F.R. Part 180, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction;

c. This certification is a material representation of fact relied upon by the Town, and if it is later determined that Contractor did not comply with 2 C.F.R. Part 180, subpart C,

in addition to remedies available to the State of Colorado and the Town, the Federal Government may pursue available remedies, including without limitation suspension and debarment.

3. Throughout this Agreement, Contractor agrees to comply with the requirements of 2 C.F.R. Part 180, subpart C. Contractor agrees to include a provision requiring such compliance in its lower tiered covered transactions.

H. *Byrd Anti-Lobbying Amendment*. Contractors who apply or bid for an award of $100,000 or more shall file the required certification set forth in the Certification Regarding Lobbying for the specific funding source. Each tier certifies to the tier above that it will not and has not used federal funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining a federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier up to the recipient.

I. *Procurement of Recovered Materials*. In the performance of this Agreement, where the purchase price of a product exceeds $10,000 or the value of the quantity acquired by the preceding fiscal year exceeded $10,000, Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired: competitively within a timeframe providing for compliance with the Agreement performance schedule; meeting Agreement performance requirements; or at a reasonable price. Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program. The list of EPA-designated items is available at https://www.epa.gov/sites/production/files/2016-02/documents/cpg-fs.pdf.

J. *Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms*. If subcontracts are to be let, Contractor shall take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible:

1. Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

2. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

3. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and

5. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

K. *Federal Law, Regulations, and Executive Orders.* Contractor acknowledges that funding under this Agreement may include federal, state, and local money, and that financial assistance from federal agencies will be used to fund specific projects under this Agreement only. For those projects, Contractor agrees to comply with all applicable law, rule, regulation, executive order, policies of the applicable federal funding agency, procedure, and directives.

L. *No Obligation by Federal Government*. The Federal Government is not a party to this Agreement and is not subject to any obligations or liabilities to the County, Contractor, or any other party pertaining to any matter resulting from the Agreement.

M. *Program Fraud and False or Fraudulent Statements or Related Acts*. Contractor acknowledges that 31 U.S.C. § 38 applies to this Agreement.

N. *Department of Homeland Security Seal, Logo, and Flags*. Contractor shall not use Department of Homeland Security ("DHS") seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without FEMA pre-approval.

O. *Housing and Community Development Act*.

1. The work to be performed under this Agreement is subject to Section 3 of the Housing and Urban Development Act of 1968, 12 U.S.C. § 1701u (Section 3). The Parties agree to comply with HUD's regulations in 24 CFR Part 135, which implement Section 3. The Parties certify that they are under no contractual or other impediment that would prevent them from complying with the Part 135 regulations.

2. Contractor agrees to send to each labor organization or representative or workers with which Contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of Contractor's commitments under the Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

3. Contractor shall include the Section 3 clause in every subcontract subject to compliance with regulations in 24 C.F.R. Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 C.F.R. Part 135. Contractor shall not subcontract with any subcontractor where Contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 C.F.R. Part 135.

4. Contractor shall certify that any vacant employment positions, including training positions, that are filled (1) after Contractor is selected but before the Agreement is executed, and (2) with persons other than those to whom the regulations of 24 C.F.R. Part 135 require employment opportunities to be directed, were not filled to circumvent Contractor's obligations under 24 C.F.R. Part 135.

5. Noncompliance with 24 C.F.R. Part 135 may result in sanctions, termination of this Agreement for default, and debarment or suspension from future HUD-assisted contracts.

6. With respect to work performed in connection with Section 3 covered Indian housing assistance, § 7(b) of the Indian Self-Determination and Education Assistance Act. (25 U.S.C § 450e) applies to the work to be performed under this Agreement and requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties that are subject to the provisions of Section 3 and § 7(b) agree to comply with Section 3 to the maximum extent feasible, but in derogation of compliance with § 7(b).

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

TOWN OF SUPERIOR, COLORADO

_____

Mark Lacis, Mayor

ATTEST:

_____

Shannon Dujardin, Town Clerk

CONTRACTOR

By: _____

STATE OF COLORADO)

) ss.

COUNTY OF _____)

The foregoing instrument was subscribed, sworn to and acknowledged before me this ___ day of _____, 2026, by _____ as _____ of _____.

My commission expires:

(S E A L)

_____

Notary Public

EXHIBIT A

SCOPE OF SERVICES

Contractor's Duties

During the term of this Agreement, Contractor shall perform the following duties, as directed by the Town:

- Provide goat-grazing operations for the purpose of weed and fuel mitigation control, for 100 days this year, at the following properties as shown on Exhibit B:

Project Areas	**Parcel Name**	**Acres**	**Totals**
FEMA HMGP	Tract H – Vista Corridor	17	
	Coyote Ridge Open Space 2 & 3	40	
	Tract E – McCaslin to Indiana	25	
	Fire Station Park and Open Space	20	
			102

- Contractor shall coordinate with Town staff to graze each property.
- Contractor shall provide temporary electrified fencing, shelter, food, water, supervision and care of animals. Fencing shall include an electrified fence and overnight corral. Contractor shall visit the grazing sites a minimum of twice daily.

Contractor's Deliverables

In performance of the duties described above, Contractor shall deliver the following items to the Town, during the timeframes established by the Town:

- Provide healthy animals to perform grazing services.
- Provide all fencing materials including posts, fabric, wire, and batteries.
- Provide all equipment necessary to care for the goats and dogs including water, portable shelter, temporary tarps, and transportation needs.
- Post contact information on-site to field immediate questions or concerns from the general public with respect to the project, animal welfare, and other inquiries. Contractor shall notify Town staff with respect to frequency of public communications.
- Erect signage on temporary electrified fencing around each grazing site giving notification about the electric fence every 50 feet.

- Notify Town staff of any issues hindering the project's success, including, but not limited to, goat displacement, extreme weather incidents, vandalism or other negative public interactions, and wildlife disturbances.

- Provide stock tanks to serve as the direct water source for the operation. Contractor shall provide water for the stock tanks. Contractor shall communicate all water needs or issues with Town staff as they maintain on-site presence.

- Maintain a herd of 300 goats for a 100-day period until restoration, noxious weed, and fuels mitigation is complete as determined by mutual agreement of both parties.

- Provide public outreach and education opportunities, to educate residents about the project, a minimum of once per year for the price of $1,000 per event. Each event will be focused on communicating the positive ecological effects of grazing, as well provide an opportunity for residents to interact with the goats. Contractor is permitted to charge a rate of $2 per feeding at every event when publicly-noticed prior to the event.

- At the conclusion of the annual grazing operation, Contractor remove all equipment including fencing, shelter material, food and water containers, and transportation apparatus.

A mutual understanding of the extent of this agreement between Contractor and Town shall remain in place, in the form of agreement renewal, for up to three years, ending after the 2027 grazing season. Either party may choose to not renew the agreement before the 2027 grazing season for any reason, if the other party is notified before the last day of the calendar year the agreement is signed. An agreement shall be executed each season service is performed outlining the Contractor's deliverables and duties as it pertains to the specific project sites during the year of the agreement.

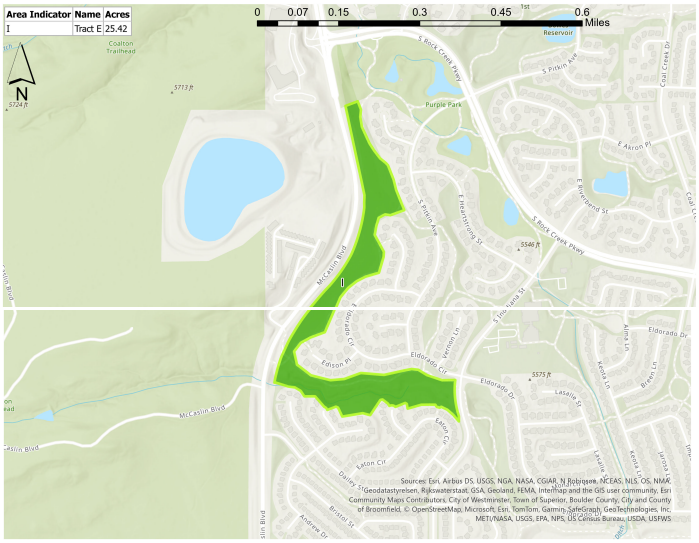
EXHIBIT B

MAP OF PROPERTIES

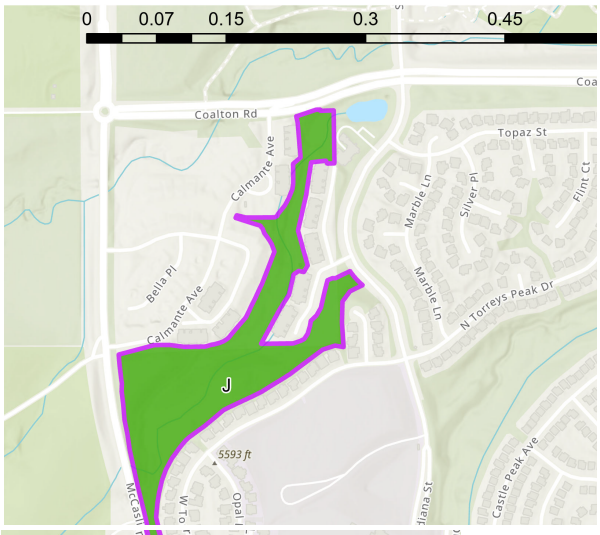
Vista Corridor 17 Acres



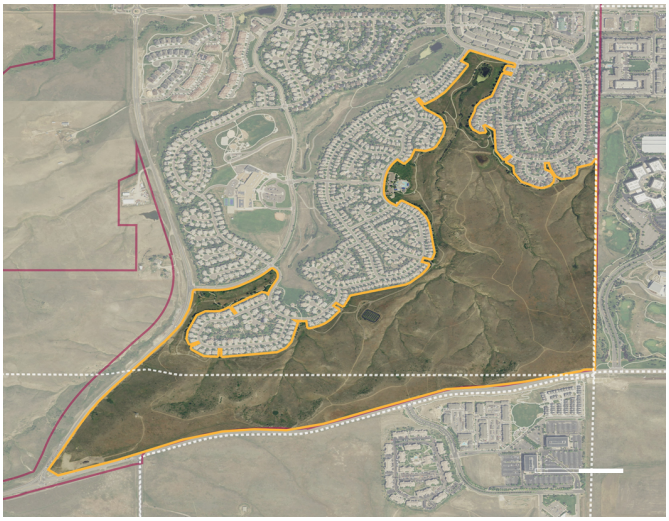
Tract E 25 Acres



Fire Station Park 20 Acres



Coyote Ridge 40 Acres



Item Number:4.h.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Ordinance of the Town Council of the Town of Superior Amending Section 1-3-20 (a) of the Superior Municipal Code Regarding Municipal Penalties
Meeting Date:	May 11, 2026
Presented By:	Nicholas Hartman, Town Attorney, Matt Magley, Town Manager
Presented For:	Approval

Background:

Attached is an ordinance amending Section 1-3-20 (a) of the Superior Municipal Code. This amendment is in response to a court decision in the consolidated cases In re People v. Camp and In re People v. Simons, 2025 CO 64. The amendment to the Code modifies the maximum penalties for any criminal offense that may be imposed by the Town in accordance with the court decision.

Recommendation:

Approve the Ordinance.

Budget Implications:

Motion:
Move to approve an Ordinance of the Town Council of the Town of Superior Amending Section 1-3-20 (a) of the Superior Municipal Code regarding municipal penalties.

Attachments:
1. Municipal Penalties-O041426

Town of Superior
Ordinance Number O-11
Series 2026

An Ordinance of the Town Council of the Town of Superior Amending Section 1-3-20(a) of the Superior Municipal Code Regarding Municipal Penalties

Whereas, pursuant to the consolidated cases *In re People v. Camp* and *In re People v. Simons*, 2025 CO 64 (Colo. Dec. 22, 2025) (the "Camp Decision"), where a municipal ordinance and state statute prohibit the same criminal conduct, "the municipal penalties for such conduct may not exceed the corresponding state penalties for that conduct"; and

Whereas, the Town desires to modify the maximum penalties that may be imposed by the Town in accordance with the Camp Decision.

Now, Therefore, be it Ordained by the Town Council of the Town of Superior, Colorado:

Section 1. Section 1-3-20(a) of the Superior Municipal Code is hereby amended as follows:

Sec. 1-3-20. – General penalty.

(a) No person shall violate any of the provisions of the ordinances of the Town or of this Code. Except in cases where a different punishment is prescribed by any ordinance of this Town or this Code, any person who violates any of the provisions of the ordinances of the Town or of this Code shall be punished by a fine of not more than two thousand six hundred fifty dollars ($2,650.00) or by imprisonment not to exceed one hundred eighty (180) days, or by both such fine and imprisonment, except as provided in Section 1-3-30 below and provided further that no indigent person shall be punished by imprisonment unless he or she has been given the opportunity to be represented by counsel. <u>For any criminal offense for which a maximum penalty is established by Title 18, C.R.S., the maximum penalty set forth in Title 18 shall apply in lieu of any penalty set forth in this Code.</u> In addition, such person shall pay all court costs imposed by the court.

Section 2. Safety. This Ordinance is deemed necessary for the protection of the health, welfare and safety of the community.

Section 3. Effective Date. This Ordinance shall take effect 10 days after publication following adoption.

Introduced, read, passed and ordered published this 11 day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Item Number:4.i.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving an Economic Incentive Agreement with Ampersands LLC for Reimbursement of Certain Business Expenses
Meeting Date:	May 11, 2026
Presented By:	Ellen Robertson, Economic Development Manager
Presented For:	Approve

Background:

On March 2, 2026, Ampersands submitted an incentive application to the Town for financial assistance with the costs for the build-out of 2345 Main St Unit 1 in Downtown Superior, This unit is prominently located on the corner of Main Street and Superior Drive.

The application states that this business will be “a new literary and hospitality venue in Superior, combining the two distinct concepts of a bookstore and a speakeasy into a unique new business..[that will] offer a curated selection of books and craft cocktails in an intimate, community-focused atmosphere, providing the ‘third-space’ environment that Superior is currently lacking”.

The scope of the project includes the build-out of the grey box unit, including carpentry, framing, architectural mill work for the bookstore shelving and the bar section of the store. The expected total project investment for this project is $778,175. Once open, the business is expecting to create 4–5 full-time positions and 2 part-time positions.

The proposed agreement outlines the financial assistance, timing, and stipulations of the Town's financial assistance. If approved, the Town would provide a one-time lump sum reimbursement of $100,000 to Ampersands after the business has obtained their certificate of occupancy and provided proof of the investment for qualifying business expenses as outlined in the agreement. This amounts to 12.85% of the total project investment. Per the agreement, the business would need to obtain their certificate of occupancy no later than December 31, 2026 and would open for business within 30 days of receiving the certificate of occupancy.

Recommendation:
Staff recommends approving the economic incentive agreement with Ampersands, LLC.

Budget Implications:
After the Business has obtained their certificate of occupancy and provided invoices and proof of the investment for qualifying business expenses, the Town will provide a lump sum reimbursement of an amount of up to $100,000 based on qualifying business expenses as outlined in the agreement. The payment will be charged to the economic development budget: 10-415-2980. Once open for business, Ampersands will generate sales tax to be remitted to the Town.

Motion:
Motion to Approve the Resolution of the Town Council of the Town of Superior Approving an Economic Incentive Agreement with Ampersands LLC for Reimbursement of Certain Business Expenses

Attachments:
1. TC Resolution 41 - Ampersands
2. Ampersands Economic Incentive Agreement

Town of Superior
Resolution Number R-41
Series 2026

A Resolution of the Town Council of the Town of Superior Approving an Economic Incentive Agreement with Ampersands LLC for Reimbursement of Certain Business Expenses

Now, Therefore, be it Resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Economic Incentive Agreement between the Town and Ampersands LLC is hereby approved in the form attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Economic Incentive Agreement on behalf of the Town.

Adopted this 11 day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

ECONOMIC INCENTIVE AGREEMENT

THIS ECONOMIC INCENTIVE AGREEMENT (the "Agreement") is made and entered into on this 24 day of April, 2026 (the "Effective Date"), by and between the Town of Superior, a Colorado municipal corporation with an address of 124 East Coal Creek Drive, Superior, CO 80027 (the "Town"), and ampersands llc, a Colorado corporation with an address of 2345 Main Street, Suite 1, Superior, CO 80027 ("Business") (each a "Party" and collectively the "Parties").

WHEREAS, the Town offers financial assistance in support of business attraction, business retention and expansion efforts to businesses;

WHEREAS, Business desires to operate a speakeasy and bookstore in the Town (the "Store");

WHEREAS, Business desires to receive an economic incentive reimbursement payment from the Town, and the Town desires to deliver an economic incentive reimbursement payment to Business (the "Payment") to reimburse qualifying business expenses, which are more particularly described in **Exhibit A**, attached hereto and incorporated herein (the "Business Expenses");

WHEREAS, Business submitted a request for incentives to the Town for the Payment towards the Business Expenses; and

WHEREAS, the Town desires to assist Business with its Business Expenses at the Store.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein, the sufficiency of which is hereby acknowledged, the Parties agree as follows:

I. PURPOSE

This Agreement establishes the terms of the Town's reimbursement for costs associated with Business's Business Expenses incurred while working to open the Store, subject to opening and continued operation of the Store within the Town.

II. TERM AND TERMINATION

A. *Term.* This Agreement shall commence on the Effective Date and shall terminate on December 31, 2030.

B. *Termination.* Either Party may terminate this Agreement if either Party breaches any material provision of this Agreement and such breach is not substantially cured within 30 days after receipt of written notice from the non-breaching Party specifying such breach in reasonable detail in accordance with the terms and conditions herein.

III. BUSINESS'S OBLIGATIONS

A. *Deadline for Opening.* Business shall obtain a certificate of occupancy from the Town for the Store on or before December 31, 2026, and shall open for business to the public within 30 days of receiving such certificate of occupancy from the Town.

B. *Proof of Business Expenses.* Upon opening to the public within the deadline contemplated herein, Business shall provide evidence of expenditure for all qualifying Business Expenses, as outlined in Exhibit A (the "Expenditures"), to the Town.

C. *Compliance with Law.*

1. Business shall at all times comply with all applicable laws, including all federal, state and local statutes, regulations, ordinances, decrees, including without limitation with all business, tax, liquor and other permitting requirements.

2. Business shall comply with all accessibility standards for an individual with a disability adopted by the State Office of Information Technology pursuant to C.R.S. § 24-85-103, and shall indemnify, hold harmless and assume liability on behalf of the Town and its officers, employees, agents and attorneys for all costs, expenses, claims, damages, liabilities, court awards, attorney fees and related costs, and any other amounts incurred by the Town in relation to Business's noncompliance with such accessibility standards.

IV. THE TOWN'S OBLIGATIONS

Within 30 days of receiving the Expenditures from Business, the Town shall reimburse to Business a portion of the Business Expenses in an amount not to exceed $100,000. Business hereby acknowledges and agrees that any Business Expenses in excess of $100,000 shall be the sole responsibility of Business, and no additional amounts shall be paid by the Town for such fees, costs and expenses.

V. RETURN OF PAYMENT

Business acknowledges and agrees that this Agreement is predicated on Business's success in the Town and, if Business is not successful, the Town's purpose for this Agreement will be lost. Therefore, the Payment shall be repaid to the Town according to the following schedule:

1. If Business ceases to operate the Store on or before December 31, 2027, Business shall repay 100% of the Payment to the Town and this Agreement shall terminate.

2. If Business ceases to operate the Store on or before December 31, 2028, Business shall repay 75% of the Payment to the Town and this Agreement shall terminate.

3. If Business ceases to operate the Store on or before December 31, 2029, Business shall repay 50% of the Payment to the Town and this Agreement shall terminate.

4. If Business ceases to operate the Store on or before December 31, 2030, Business shall repay 25% of the Payment to the Town and this Agreement shall terminate.

VI. BREACH AND REMEDIES

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A. *By the Town.* If the Town defaults on any obligation under this Agreement for any reason, Business may seek actual damages, but Business shall not be entitled to enforce this Agreement through an action for specific performance.

B. *By Business.* If Business defaults on any obligation under this Agreement, the Town may seek actual damages, in addition to all other remedies available at law or equity, and the exercise of one remedy shall not preclude the exercise of any other remedy.

VII. INDEMNIFICATION

Business agrees to indemnify and hold harmless the Town and its officers, insurers, volunteers, representative, agents, employees, heirs and assigns from and against all claims, liability, damages, losses, expenses and demands, including attorney fees, on account of injury, loss or damage, including without limitation claims arising from bodily injury, personal injury, sickness, disease, death, property loss or damage or any other loss of any kind whatsoever, which arise out of or are in any manner connected with this Agreement if such injury, loss or damage is caused in whole or in part by the act, omission, error, professional error, mistake, negligence or other fault of Business, any subcontractor of Business, or any officer, employee, representative or agent of Business or which arise out of a workers' compensation claim of any employee of Business or of any employee of any subcontractor of Business.

VIII. INSURANCE

A. Business agrees to procure and maintain, at its own cost, a policy or policies of insurance sufficient to insure against all liability, claims, demands and other obligations assumed by Business pursuant to this Agreement. At a minimum, Business shall procure and maintain, and shall cause any subcontractor to procure and maintain, the insurance coverages listed herein, with forms and insurers acceptable to the Town.

1. Workers' Compensation insurance as required by law.

2. Commercial General Liability insurance with minimum combined single limits of $1,000,000 each occurrence and $2,000,000 general aggregate. The policy shall be applicable to all premises and operations, and shall include coverage for bodily injury, broad form property damage, personal injury (including coverage for contractual and employee acts), blanket contractual, products and completed operations. The policy shall contain a severability of interests provision, and shall include the Town and its officers, employees and contractors as additional insureds. No additional insured endorsement shall contain any exclusion for bodily injury or property damage arising from completed operations.

B. Such insurance shall be in addition to any other insurance requirements imposed by law. The coverages afforded under the policies shall not be canceled, terminated or materially changed without at least 30 days' prior written notice to the Town. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Any insurance carried by the Town, its officers, its employees or its

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contractors shall be excess and not contributory insurance to that provided by Business. Business shall be solely responsible for any deductible losses under any policy.

C. Business shall provide to the Town a certificate of insurance as evidence that the required policies are in full force and effect. The certificate shall identify this Agreement.

IX. MISCELLANEOUS

A. *Governing Law and Venue.* This Agreement shall be governed by the laws of the State of Colorado, and any legal action concerning the provisions hereof shall be brought in Boulder County, Colorado.

B. *No Waiver.* Delays in enforcement or the waiver of any one or more defaults or breaches of this Agreement by the Town shall not constitute a waiver of any other terms or obligations of this Agreement.

C. *Integration.* This Agreement constitutes the entire agreement between the Parties, superseding all prior oral or written communications.

D. *Third Parties.* There are no intended third-party beneficiaries to this Agreement.

E. *Notice.* Any notice under this Agreement shall be in writing, and shall be deemed sufficient when directly presented or sent pre-paid, first-class U.S. Mail to the Party at the address set forth on the first page of this Agreement.

F. *Parties Not Partners.* Notwithstanding any language in this Agreement or any other agreement, representation or warranty to the contrary, the Parties will not be deemed to be partners or joint venturers and no Party is responsible for any debt or liability of any other Party.

G. *Severability.* If any provision of this Agreement is found by a court of competent jurisdiction to be unlawful or unenforceable for any reason, the remaining provisions hereof shall remain in full force and effect.

H. *Modification.* This Agreement may only be modified upon written agreement of the Parties.

I. *Assignment.* Neither this Agreement nor any of the rights or obligations of the Parties shall be assigned by either Party without the written consent of the other.

J. *Governmental Immunity.* The Town and its officers, attorneys and employees are relying on, and do not waive or intend to waive by any provision of this Agreement, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, or otherwise available to the Town and its officers, attorneys or employees.

K. *Rights and Remedies.* The rights and remedies of the Town under this Agreement are in addition to any other rights and remedies provided by law. The expiration of this Agreement

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shall in no way limit the Town's legal or equitable remedies or the period in which such remedies may be asserted.

L. *Subject to Annual Appropriation*. Consistent with Article X, § 20 of the Colorado Constitution, any financial obligation of the Town not performed during the current fiscal year is subject to annual appropriation, shall extend only to monies currently appropriated and shall not constitute a mandatory charge, requirement, debt or liability beyond the current fiscal year.

M. *Force Majeure*. No Party shall be in breach of this Agreement if such Party's failure to perform any of the duties under this Agreement is due to Force Majeure, which shall be defined as the inability to undertake or perform any of the duties under this Agreement due to acts of God, floods, storms, fires, sabotage, terrorist attack, strikes, riots, war, labor disputes, forces of nature, the authority and orders of government or pandemics.

N. *Electronic Signatures*. The Parties intend that this Agreement be governed by the Uniform Electronic Transactions Act, C.R.S. § 24-71.3-101, *et seq*.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

TOWN OF SUPERIOR, COLORADO

_____
Mark Lacis, Mayor

ATTEST:

_____
Shannon Dujardin, Town Clerk

BUSINESS

By: Megan Clancy

STATE OF COLORADO)
) ss.
COUNTY OF Boulder)

The foregoing instrument was subscribed, sworn to and acknowledged before me this 27th day of April, 2026, by Megan Clancy as Owner of Ampersands LLC.

My commission expires: 10/16/27

(S E A L)

STEFANIE SUE SCHY
NOTARY PUBLIC - STATE OF COLORADO
NOTARY ID 20154004168
MY COMMISSION EXPIRES OCT 16, 2027

Notary Public

4/25/2026
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EXHIBIT A
QUALIFYING BUSINESS EXPENSES

Business may submit the following Business Expenses to the Town for reimbursement by the Payment, in a total amount not to exceed $100,000:

- Accessibility improvements as required by the Americans with Disabilities Act, 42 U.S.C. § 12101, *et seq.*;
- Awnings, canopies, and patios;
- Doors, roofs, and windows;
- Exterior lighting;
- Facades, gutters, downspouts;
- Fire sprinkler and alarm system improvements;
- Irrigation system;
- Landscaping and fencing;
- Painting and masonry cleaning;
- Parking lots and sidewalks;
- Signage; and
- Other fixed physical tenant finish improvements to the Store, including without limitation electrical, plumbing and carpentry work.

Item Number:4.j.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving Appointments to Advisory Committee — Cultural Arts and Public Spaces Advisory Committee (CAPS) and Parks and Recreation Advisory Committee (PARC)
Meeting Date:	May 11, 2026
Presented By:	Matt Magley, Town Manager
Presented For:	Action Approval

Background:
Section 2-12-40 of the Superior Municipal Code addresses membership of Town Advisory Committees, including appointments. The Cultural Arts and Public Spaces Advisory Committee (CAPS) has 3 vacancies, and the Parks and Recreation Advisory Committee (PARC) has 3 vacancies as outlined below. These vacancies have been posted through Town media over recent months. The Council has the option to appoint or not appoint a candidate, and staff will continue to advertise the vacancy(s).

Cultural Arts and Public Spaces Advisory Committee (CAPS) – 3 vacancies
- Claire Dixon
- Xochiquetzal Luna

Parks and Recreation Advisory Committee (PARC) – 3 vacancies
- Neha Myer

ALTERNATIVES CONSIDERED:
Make no appointments and continue to advertise to fill the vacancy.

Recommendation:

Budget Implications:
None

Motion:
Move to approve Resolutions making appointments to CAPS and PARC

Attachments:
1. Resolution CAPS Appointment_05.11.2026
2. Resolution PARC Appointment_05.11.2026

Town of Superior
Resolution Number R-42
Series 2026

A Resolution of the Town Council of the Town of Superior Making Appointments to the Cultural Arts and Public Spaces Advisory Committee

WHEREAS, on December 12, 2016 the Board of Trustees established the Cultural Arts and Public Spaces Advisory Committee ("CAPS") by Resolution No. R-79, Series 2016; and

WHEREAS, the Town Council desires to make appointments to CAPS.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Town Council hereby makes the following appointments to the Cultural Arts and Public Spaces Advisory Committee:

Name	**Term Expires**
Claire Dixon	**June 2029 (Full Term)**
Xochiquetzal Luna	**June 2028 (Partial)**

ADOPTED this 11th day of May, 2026.

_____

Mark Lacis, Mayor

ATTEST:

_____

Shannon Dujardin, Town Clerk

Town of Superior
Resolution Number R-43
Series 2026

A Resolution of the Town Council of the Town of Superior Making Appointments to the Parks and Recreation Advisory Committee

WHEREAS, the Board of Trustees established PROSTAC by Resolution No. R-46, Series 2003 on July 14, 2003;

WHEREAS, by Resolution No. R-37, Series 2012, adopted on April 23, 2012, the Board re-established PROSTAC in accordance with Article XII, Chapter 2 of the Superior Municipal Code; and

WHEREAS, by Resolution #R-18, 2021 the name of the Parks, Recreation, Open Space and Trails Advisory Committee was changed to the Parks and Recreation Advisory Committee; and

WHEREAS, the Town Council desires to make appointments to PARC.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Town Council hereby makes the following appointment to the Parks and Recreation Advisory Committee:

Name	**Term Expires**
Neha Myer	**June 2029 (Full Term)**

ADOPTED this 11th day of May, 2026.

_____

Mark Lacis, Mayor

ATTEST:

_____

Shannon Dujardin, Town Clerk

Item Number:4.k.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of an Ordinance of the Town Council of the Town of Superior Amending Section 6-10-110(b) of the Superior Municipal Code, Regarding Days of Availability for Festival Short-Term Rental Licenses
Meeting Date:	May 11, 2026
Presented By:	Renae Stavros, Planning and Building Director
Presented For:	Approval

Background:
On March 3, 2026 the Town Council adopted an Ordinance amending Article X of Chapter 6 and creating a new Section 6-10-110 regarding short-term rental licenses for festivals and events. The ordinance allows additional short-term rentals during major regional events, and keeps restrictions to mainly health and safety checks. Because the Town already collects a lodging fee it was not included in the ordinance. Per the ordinance:

- The applicant does not have to maintain a principal place of residence in the Town
- A sworn statement of ownership of the property at the time of application in lieu of the sworn statement regarding the owner's principal place of residence is required
- The license limitations regarding operation of multiple short-term rentals by a single owner shall not apply, except that the prohibition on the operation of two short-term rentals within the same dwelling unit shall continue to apply
- Festival short-term rental license are restricted to dates for which the Town Manager has declared a special festival event period, plus ten (10) days prior to the beginning of such period's commencement date and ten (10) days following such period's conclusion date.

The proposed amendment to the ordinance changes a condition allowing a festival STR to operate only 29 days per *YEAR*, no matter the number of declared festivals. This amendment changes that requirement to allow a festival STR to operate 29 days per *FESTIVAL*. It leaves all other conditions of the festival license requirements in place. This will allow more flexibility for owners operating STR's during designated festivals.

Recommendation:
Should the Town Council wish to adopt the proposed Ordinance Amendment regarding festival short-term rental licensing, a Resolution is provided in the packet.

Budget Implications:
Added opportunity for STR's to operate during designated festivals.

Motion:
Move to approve an Ordinance of the Town Council of the Town of Superior Amending Section 6-10-110(b) of the Superior Municipal Code, Regarding Days of Availability for Festival Short-Term Rental Licenses

Attachments:
1. Festival STR License-O050426

Town of Superior
Ordinance Number O-12
Series 2026

An Ordinance of the Town Council of the Town of Superior Amending Section 6-10-110(b) of the Superior Municipal Code, Regarding Days of Availability for Festival Short-Term Rental Licenses

Whereas, the Town Council finds it in the best interest of the public health, safety and welfare to amend its festival short-term rental license to allow additional days for short-term rentals to be available during major regional events each year.

Now, Therefore, be it Ordained by the Town Council of the Town of Superior, Colorado:

Section 1. Section 6-10-110(b) of the Superior Municipal Code is amended as follows:

Sec. 6-10-110 – Festival short-term rental license.

* * *

(b) The festival short-term rental license shall be restricted to advertisement for and occupancy during rental dates for which the Town Manager has declared a special festival event period, plus ten (10) days prior to the beginning of such period's commencement date and ten (10) days following such period's conclusion date. Under no circumstances shall a dwelling unit be occupied pursuant to a festival lodging rental license for more than twenty-nine (29) days per ~~year~~ festival.

Section 2. Safety. This Ordinance is deemed necessary for the protection of the health, welfare and safety of the community.

Section 3. Effective Date. This Ordinance shall take effect 10 days after publication following adoption.

Introduced, read, passed and ordered published this ____ day of _____, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Summary of Measured Noise Levels

in the

Town of Superior, Colorado

due to

Rocky Mountain Metropolitan Airport Operations

February 2026



Prepared by:

Hankard Environmental, Inc.

Colorado, Wisconsin

HANKARD ENVIRONMENTAL

ACOUSTICS AND VIBRATION CONSULTING

Monthly Summary – February 2026 (Water Bladder Site)

The following summarizes the daytime noise levels measured at the Water Bladder measurement location located off S. Torreys Peak Dr. and aircraft operations detected over the Town of Superior for the month of February 2026. Additional information regarding the measurements follows.

- Over the entire month, a total of 6,392 aircraft operations[1] occurred within 1.25 miles of the measurement location (the distance within which aircraft are audible).
- Of these, 2,979 were touch and go (T&G) operations (47%).
- Over the entire month, aircraft operations were clearly noticeable (aircraft noise measured at approximately 5 dBA above the ambient sound level) for 3,516 minutes (59 hours).
- If T&G operations were not conducted at the airport, an analysis of the measurement data indicates that noticeable aircraft operations would decrease to 1,688 minutes (28 hours), which is a 52% reduction.
- The following summarizes the February 2026 noise survey results at the Water Bladder.

Table 1 - Summary of Daytime Measured Noise Levels and Aircraft Operations, February 2026 (Water Bladder)

Operations	Quantity	Audible Aircraft Operations	Aircraft Noise Above Ambient (dBA)	Aircraft 5 dBA Above Ambient (minutes)	Aircraft 10 dBA Above Ambient (minutes)	Aircraft 20 dBA Above Ambient (minutes)
All	Total for month	6,392	---	3,516	2,063	404
	Daily average	228	17	167	98	19
Touch and Go Removed	Total for month	4,012	---	1,688	967	157
	Daily average	143	14	80	46	7

- Figure 1 shows the flight paths on February 21, a day with total operations close to the median for the month. Note the concentration of T&G operations over the Town of Superior and Boulder County.
- Figure 2 shows the measured noise levels and concurrent aircraft activity for this day. Maximum noise levels generated by individual aircraft operations exceeded the ambient sound level by at least the following levels for the durations noted:
  - 5 dBA (clearly noticeable), 204 minutes.
  - 10 dBA (significant increase), 154 minutes.
  - 20 dBA (much louder), 38 minutes.
- Table 2 shows the hourly average noise levels and operation counts for this day.
- Figure 3 shows an hour on this day, during which time the measured noise level was often above ambient conditions (33 dBA for this hour), meaning that aircraft noise was regularly present.
- Figure 4 shows the flight paths for the entire month of February 2026.

[1] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch and go operation as two operations.

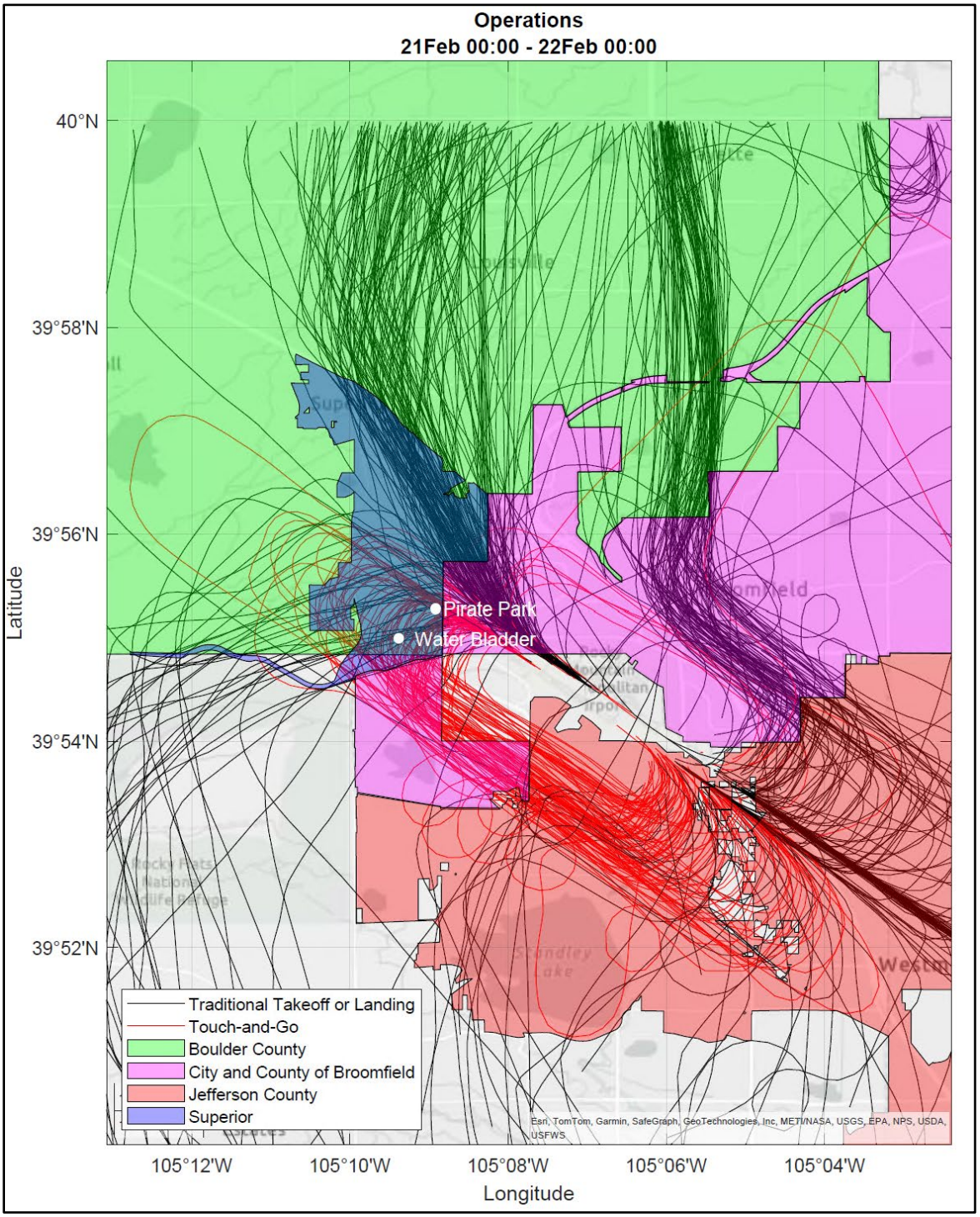

Figure 1 – Flight Paths on Median Day in February 2026 (465 Operations; 114 T&G)

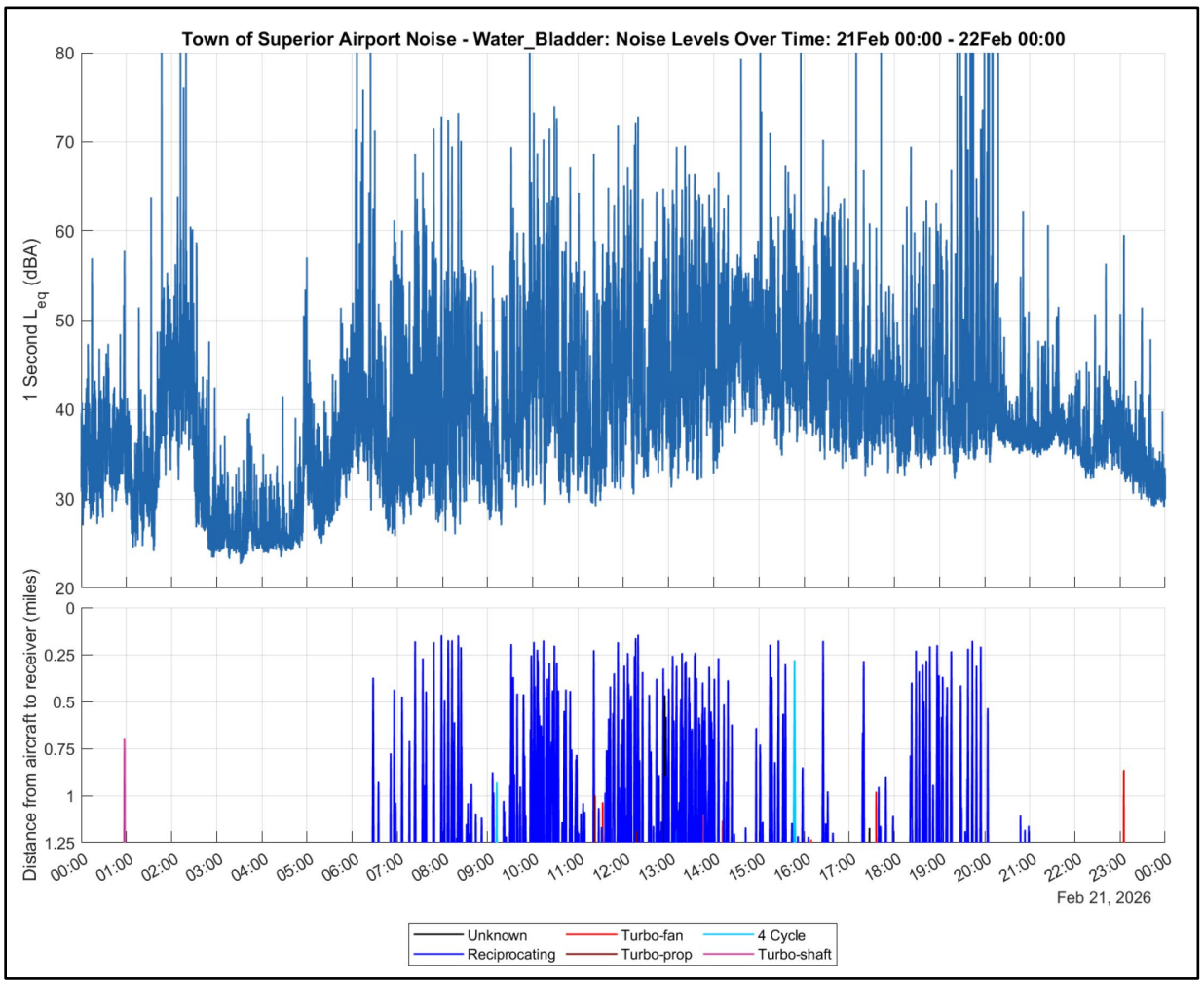

Figure 2 – Noise Levels and Aircraft Operations on Median Day (Water Bladder)

Table 2 – Hourly Noise Levels and Aircraft Operations on Median Day (Water Bladder)

Time	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm
Average Noise Level (dBA)	51	51	52	54	49	52	52	51	58	48	54	48	66	64	39
Number of Operations	16	20	35	56	46	55	54	42	45	20	25	17	13	7	1

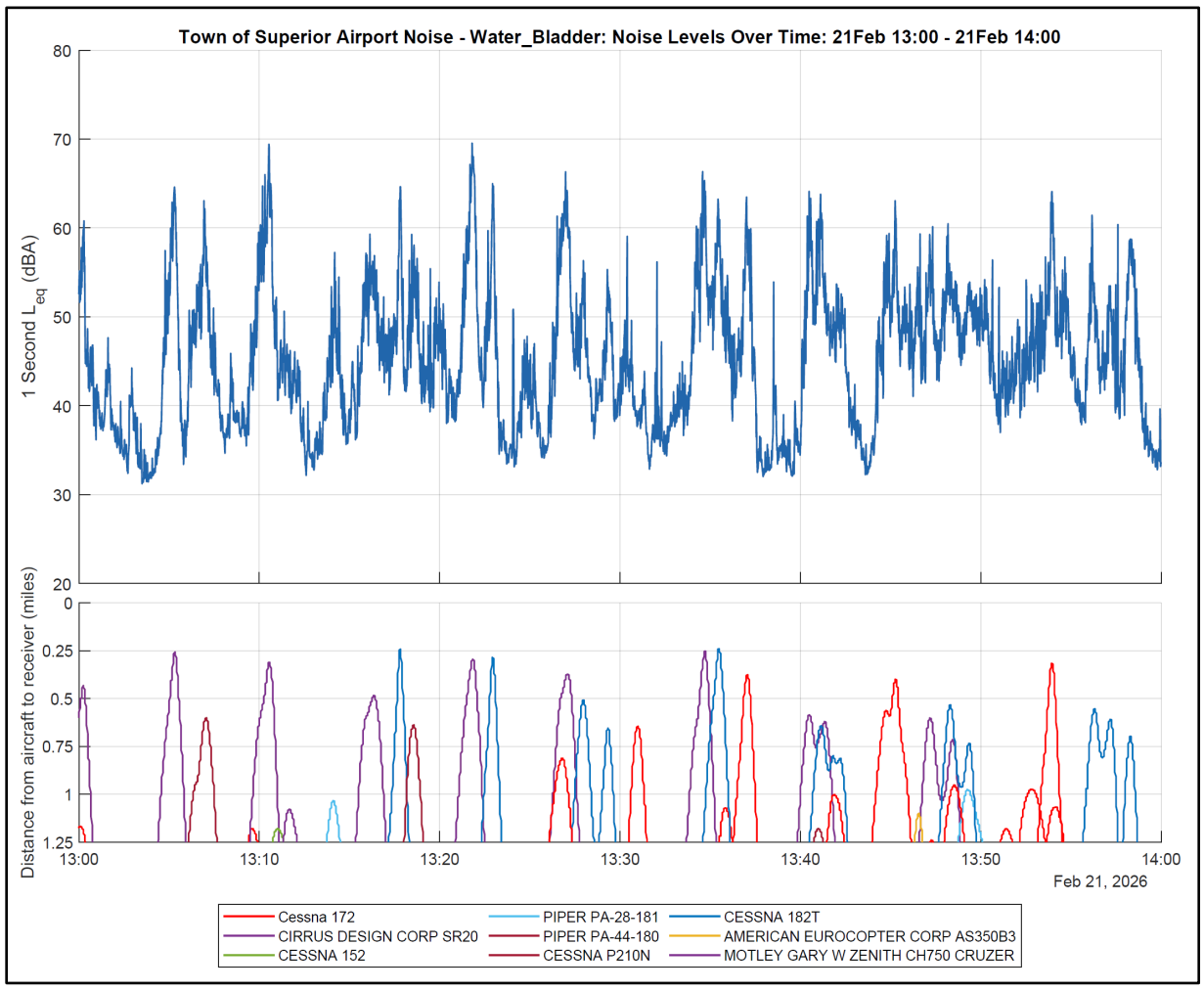

Figure 3 – Noise Levels and Aircraft Operations during an Example Hour on Median Day (Water Bladder)

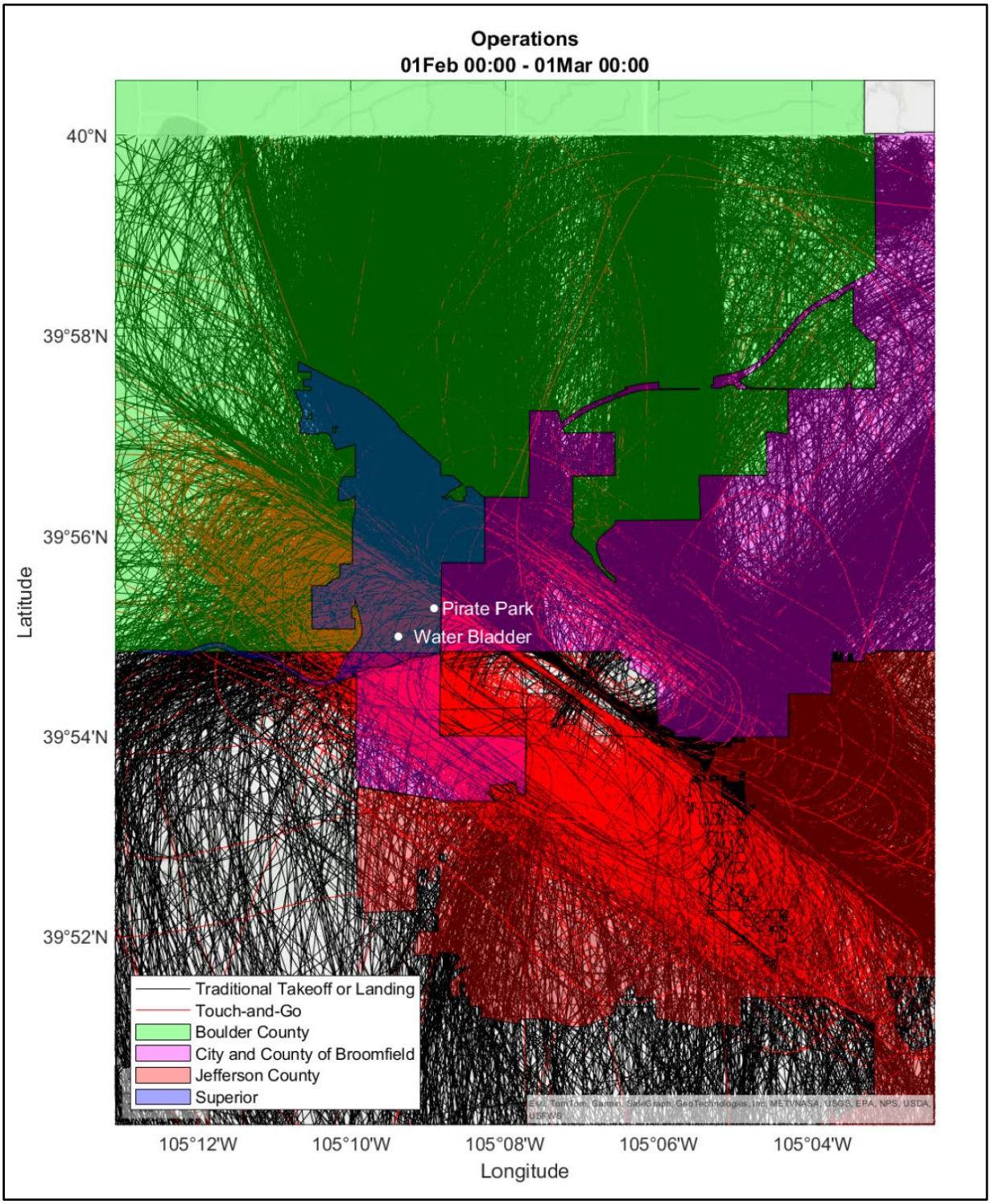

Figure 4 – All Flight Paths in February 2026 (11,210 Operations; 3,293 T&G)

Monthly Summary – February 2026 (Pirate Park Site)

The following summarizes the daytime noise levels measured at the Pirate Park measurement location located near Pirate Park off Yarrow Circle and aircraft operations detected over the Town of Superior for the month of February 2026. Additional information regarding the measurements follows.

- Over the entire month, a total of 6,959 aircraft operations[2] occurred within 1.25 miles of the measurement location (the distance within which aircraft are audible).
- Of these, 3,052 were touch and go (T&G) operations (44%).
- Over the entire month, aircraft operations were clearly noticeable (aircraft noise measured at approximately 5 dBA above the ambient sound level) for 5,378 minutes (90 hours).
- If T&G operations were not conducted at the airport, an analysis of the measurement data indicates that noticeable aircraft operations would decrease to 3,071 minutes (51 hours), which is a 43% reduction.
- The following summarizes the February 2026 noise survey at Pirate Park. Note the number of minutes that aircraft noise was 20 dBA above ambient is much higher than at the Water Bladder site due to the closer proximity to the runway and the lower, climbing aircraft.

Table 3 - Daytime Measured Noise Levels and Aircraft Operations, February 2026 (Pirate Park)

Operations	Quantity	Audible aircraft operations	Aircraft noise above ambient (dBA)	Aircraft 5 dBA Above Ambient (minutes)	Aircraft 10 dBA Above Ambient (minutes)	Aircraft 20 dBA Above Ambient (minutes)
All	Total for month	6,959	---	5,378	4,003	1,382
	Daily average	249	21	244	182	63
Touch and Go Removed	Total for month	4,551	---	3,071	2,286	704
	Daily average	163	17	140	104	32

- Figure 5 shows the measured noise levels and concurrent aircraft activity for February 21, a day with total operations close to the median for the month. Maximum noise levels generated by individual aircraft operations exceeded the ambient sound level by at least the following levels for the durations noted:
  - 5 dBA (clearly noticeable), 255 minutes.
  - 10 dBA (significant increase), 212 minutes.
  - 20 dBA (much louder), 97 minutes.
- Table 4 shows the hourly average noise levels and operation counts for this day.
- Figure 6 shows an hour on this day, during which time the measured noise level was often above ambient conditions (35 dBA for this hour), meaning that aircraft noise was regularly present.

[2] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch and go operation as two operations.

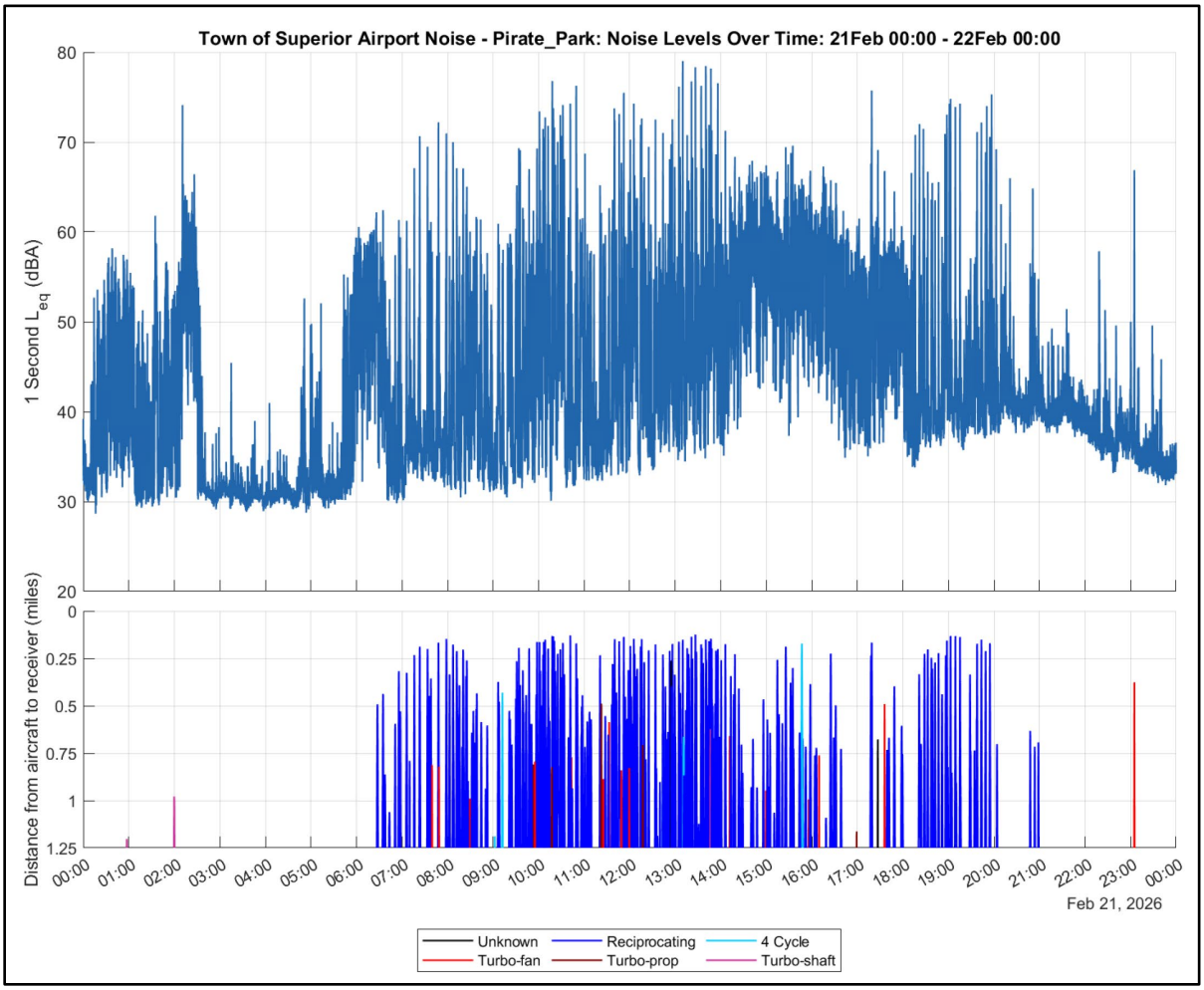

Figure 5 – Noise Levels and Aircraft Operations on Median Day (Pirate Park)

Table 4 – Hourly Noise Levels and Aircraft Operations on Median Day (Pirate Park)

Time	7 am	8 am	9 am	10 am	11 am	12 pm	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm
Average Noise Level (dBA)	52	51	51	58	54	56	59	58	58	56	55	54	55	47	41
Number of Operations	16	20	35	56	46	55	54	42	45	20	25	17	13	7	1

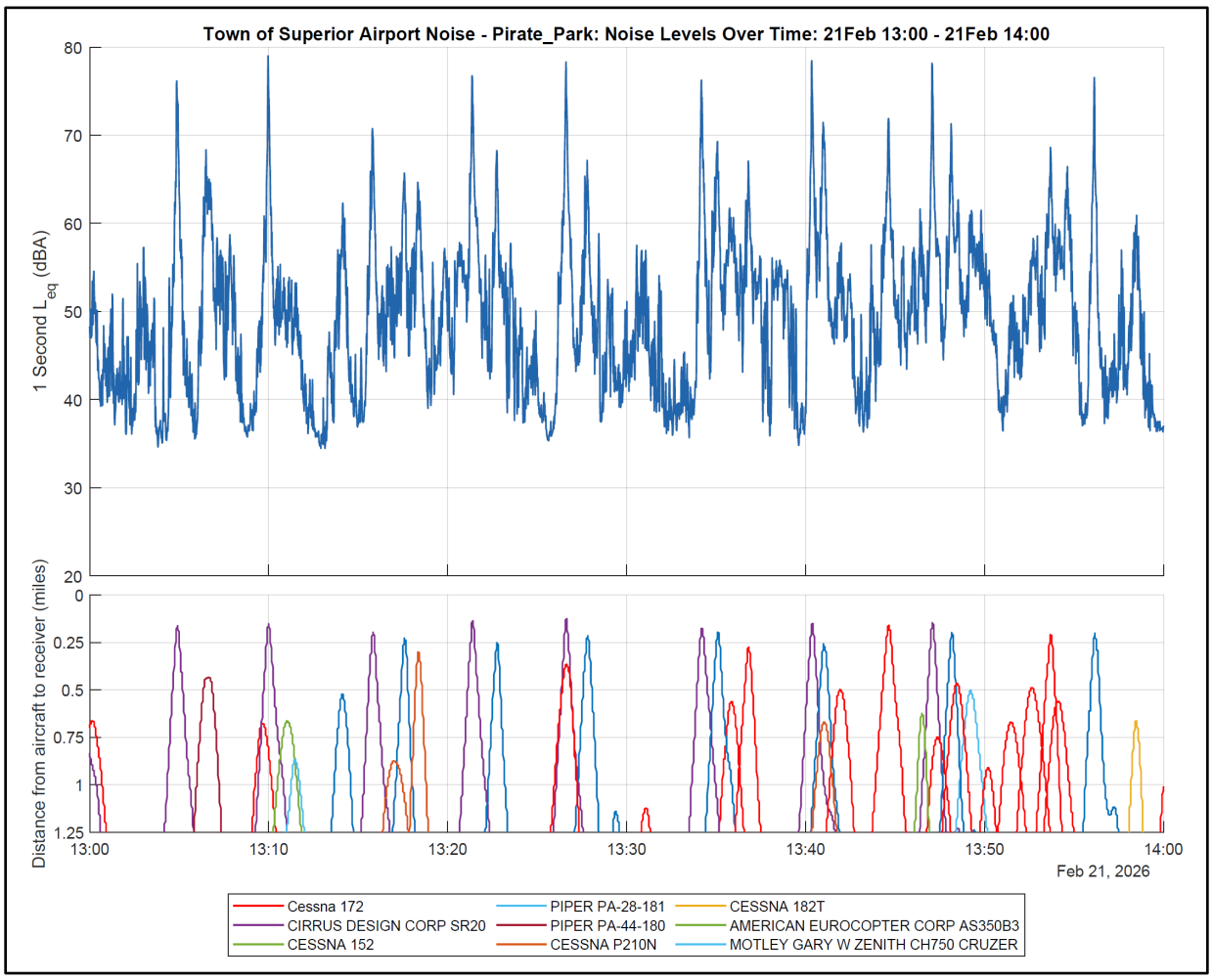

Figure 6 – Noise Levels and Aircraft Operations during an Example Hour on Median Day (Pirate Park)

Detailed Results

1. Measurement Locations and Flight Paths

Noise level monitors were placed at the locations shown in Figure 1-1 and configured to continually measure noise levels. The meters were in service for the entirety of February 2026. The selection of measurement locations considered proximity of Town of Superior residences, aircraft flight paths, and availability of public land. The Water Bladder location was chosen as it is removed from busy roads and in the flight path of touch and go operations. The Community Center location was chosen as it is directly in the flight path of runway 12 L. The Pirate Park location was chosen as it is directly in the flight path of runway 12 R while still being nearby to residences.

Aircraft flight paths are limited due to Denver International Airport airspace to the east and mountains to the west. This, along with prevailing wind patterns, pushes a majority of operations over the Town of Superior, as shown in Figures 1 and 4 (above).

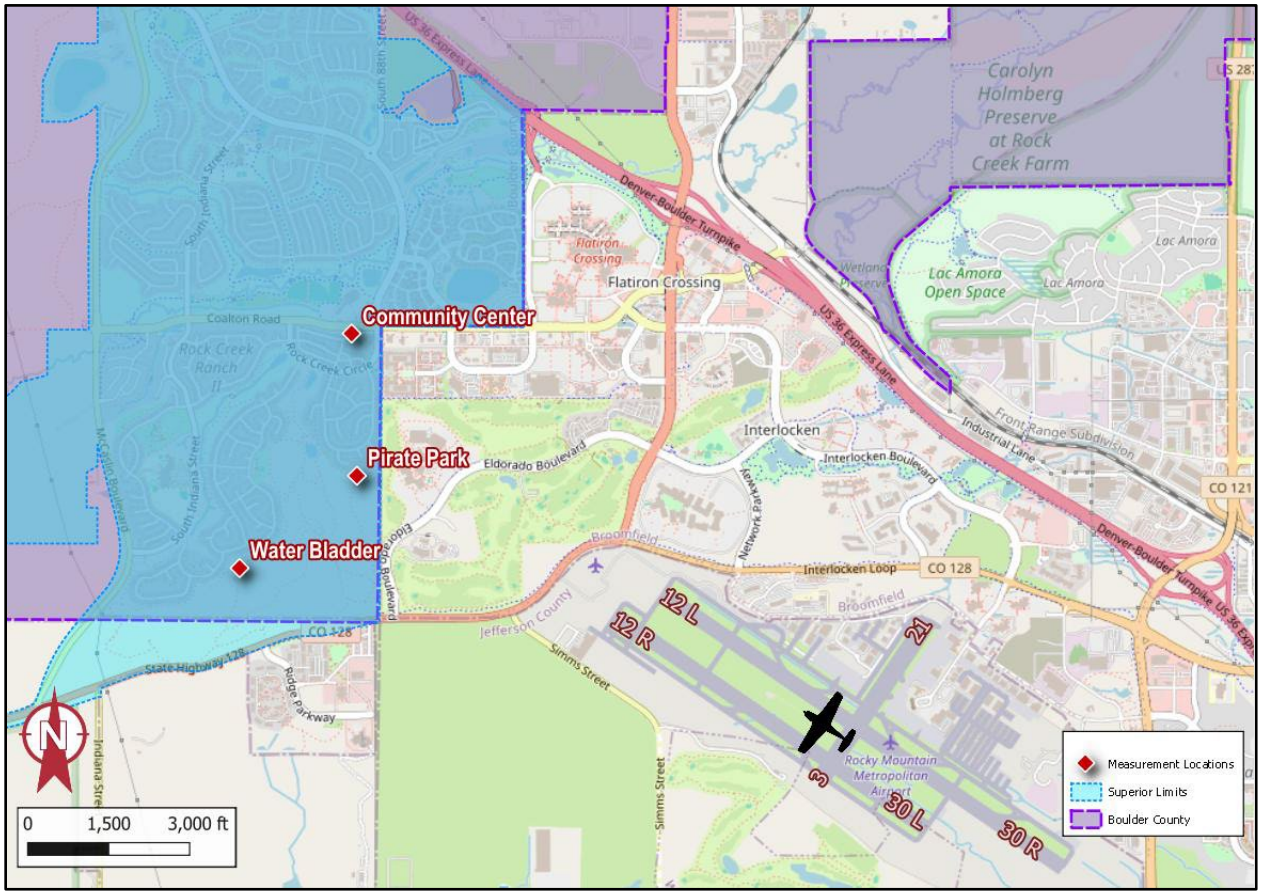

Figure 1-1. Measurement Locations and Airport

2. Noise and Aircraft Operations Measurement Procedures

Noise levels were measured in accordance with applicable acoustical standards as well as the author's experience in this specialized field. The following sections describe the acoustical standards followed, measurement equipment specifications and settings, measurement duration, ground wind measurement equipment, and aircraft operations data integration.

2.1 Applicable Noise Measurement and Analysis Standards

The measurements were executed in accordance with the relevant aspects of the following standards:

1. Noise measurement equipment meets the Type 1 specifications of American National Standards Institute (ANSI) standard S1.4-2014 (R2024) American National Standard Specification for Sound Level Meters.
2. ANSI S1.11-2004 (R2009), Electroacoustics - Octave-band and Fractional-octave-band Filters - Part 1: Specifications.
3. ANSI S1.40-2006 (R2016), American National Standard Specifications and Verification Procedures for Sound Calibrators.
4. The measurement and analysis procedures followed the applicable portions of ANSI S12.9-2013 Part 3 (R2018) Quantities and Procedures for Description and Measurement of Environmental Sound - Part 3: Short-Term Measurements with an Observer Present.
5. ANSI S12.18-1994 (R2019) Outdoor Measurement of Sound Pressure Level.
6. ANSI S1.13-2020 American National Standard Measurement of Sound Pressure Level in Air.

2.2 Noise Measurement Equipment

Noise levels were measured using Larson Davis Model 831 sound level meters with associated preamplifiers and ½ inch free-field precision microphones. All measurement and field calibration equipment were certified by a traceable laboratory within 18 months prior to the measurements. Field calibrations were conducted on February 10, 2026 and the drift in the measured noise level was well within tolerance (Water Bladder +0.27 dB, Pirate Park -0.09 dB, and Community Center +0.28 dB). Calibration certificates and records are available upon request.

The microphones were mounted on steel poles and positioned five feet above the ground (per ANSI S12.9). The microphones were covered with hydrophobically treated 7-inch diameter, 80-pores-per-inch density windscreens (ACO Pacific Model WS7-80T). Audio from each sound level meter was recorded using Tascam DR-05X digital recorders. The sound level meters were configured to continuously measure and record 1-second and 1-hour averages of the following metrics: overall L_{eq}, L_{10}, L_{50}, and L_{90}, as well as one-third octave band L_{eq} levels (6.3 Hz to 20 kHz).

2.3 Aircraft Position Measurement Equipment

Aircraft position data is being collected in the area with an Automatic Dependent Surveillance-Broadcast (ADS-B) monitoring system that receives real-time data from each aircraft in the area, including location, speed, and a unique identifier (hex code). Aircraft position data is being logged on 1-second intervals and is combined with the Federal Aviation Administration (FAA) aircraft registration database to get additional information for each aircraft, including make/model, engine type, and owner. Aircraft from flight schools were identified based on the owner and listed registration numbers from the flight school websites. Altitude data from the aircraft is based on barometric pressure on the aircraft and is not corrected for barometric pressure on the ground. During data processing, the altitude data is corrected based on barometric pressure from the airport. Aircraft above 11,000 feet are filtered out of the database to eliminate from the analysis aircraft that are merely passing overhead and not using Rocky Mountain Metropolitan Airport.

2.4 Meteorological Data

Wind speeds and direction are being measured continuously at each monitoring site using Vaisala WXT530 series sonic anemometers, mounted on steel poles approximately 6.5 feet above the ground (per ANSI S12.18) and placed within approximately 10 feet of the microphones. Barometric pressure data was obtained from the airport's weather station.

2.5 Resulting Measurement Database

This report presents the results of measurements conducted throughout the month of February 2026. A total of 672 hours of continuous noise, aircraft, and ground wind data were collected. All data was organized into a single database and time synchronized through the cellular network.

Figure 2-1 shows noise levels versus time (top graph) and distance to the nearest aircraft over time (bottom graph) for an example one-hour period at Pirate Park. This example shows a Piper PA-28-181 (shown in blue) performing touch and go operations, which involves landing and immediately taking off again, and results in the airplane passing over the microphone every few minutes. A few other aircraft (shown in red, purple, green, and yellow) perform traditional take offs or landings. Note the ambient sound level, the level occurring with no aircraft present, is approximately 35 dBA during this example hour. With aircraft present, levels are as high as 75 dBA, which is a 40 dBA increase over the ambient sound level.

Figure 2-2 shows the measured noise levels and aircraft operations for a representative hour with frequent aircraft operations. During this hour the ambient sound level for this day of 37 dBA is never reached because there was very little time when aircraft noise was not audible.

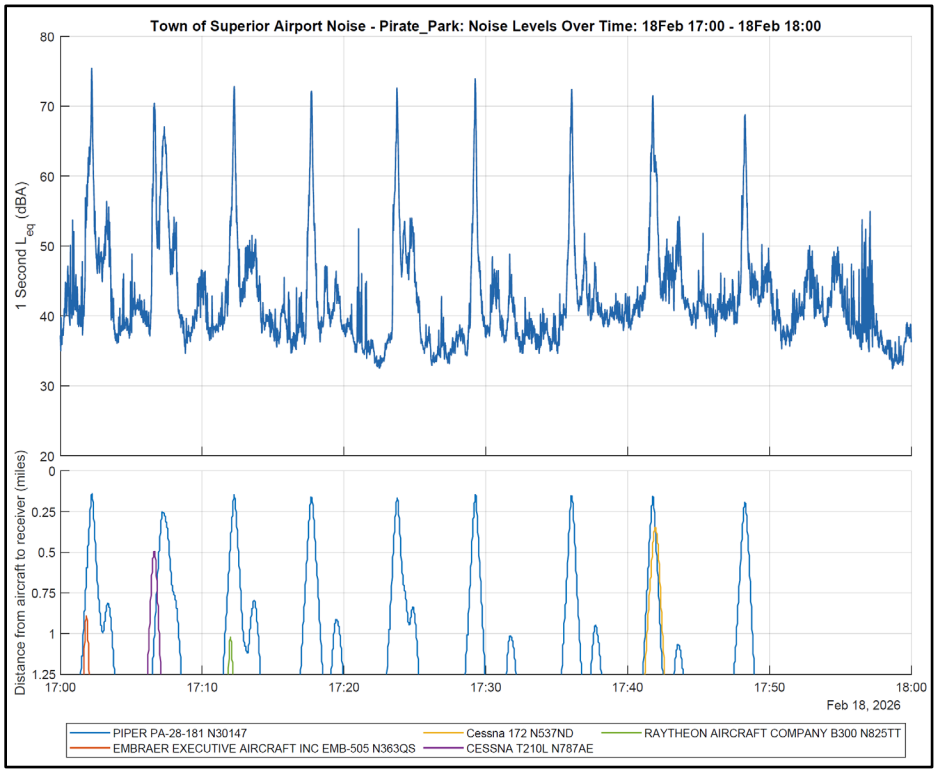

Figure 2-1. Example Time Plot of Measured Noise Levels - Touch and Go Operations

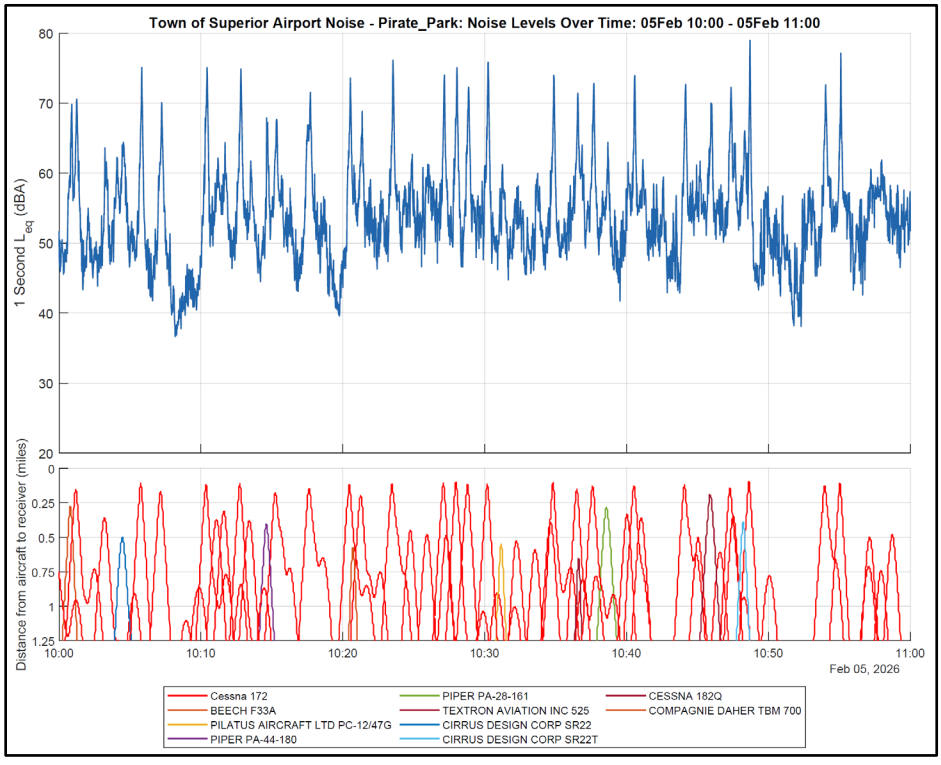

Figure 2-2. Example Time Plot During an Hour with Frequent Aircraft Operations

3. Data Analysis Procedures

The measured noise level and aircraft operations data were analyzed as follows.

3.1 Duration of Analysis Intervals

The measured data was recorded and analyzed in 1-second intervals. This interval was chosen because it provides sufficient resolution to capture changes in noise levels against aircraft proximity over time and follows the FAA's procedures. Results are summarized and presented herein in terms of daily averages of noise levels when aircraft are present versus ambient noise levels in the area (noise generated by non-aircraft sources, such as distant roadway traffic).

3.2 Aircraft Types and Operations

Each 1-second ADS-B sample was classified into one of five operational types: (1) on-the-ground, (2) flyover, (3) touch and go (T&G), (4) takeoff, and (5) landing. The number of operations per day for each operational type is shown in Table 3-1. Samples classified as on-the-ground were excluded from further analysis as planes would not be audible during these times, and samples for aircraft above 11,000 feet or classified as flyovers were excluded from further analysis as these operations were not generated by this airport.

Each aircraft detected in the month is analyzed separately. Each 1-second sample in which the individual aircraft's signal was detected is arranged into a table in chronological order. Each sample is labeled as on the ground (known from the positional information) or airborne. Airborne samples are then grouped into events, which include takeoff, landing, touch and go operation, and flyover. Starting with the first 1-second sample in time where the aircraft was detected as being airborne, the following logic is applied. This is also shown in the table below.

- If the previous sample was on the ground, and a sample within the next 20 minutes is on the ground, the entire window of samples when the aircraft was airborne is classified as touch and go.
- If the previous sample was on the ground, and no samples within the next 20 minutes are on the ground, the entire 20-minute window of samples is classified as takeoff.
- If the previous sample was not on the ground, and a sample within the next 20 minutes is on the ground, the entire window of samples when the aircraft was airborne is classified as landing.
- If the previous sample was not on the ground, and no samples within the next 20 minutes are on the ground, the entire 20-minute window of samples is classified as a flyover and is disregarded from further analysis.

	Is on the ground within the next 20 minutes	**Is not on the ground within the next 20 minutes**
Previous sample was on the ground	Touch and Go	Takeoff
Previous sample was not on the ground	Landing	Flyover

Additionally, T&G operations were further classified as initial (the initial takeoff) or subsequent (subsequent touch and go landings and takeoffs) depending on whether the previous operation of the aircraft was classified as a T&G operation. As described in more detail below, this was done to allow for the estimation of noise levels for a scenario where T&G operations occurred at another distant airfield.

Each ADS-B sample was also classified by aircraft engine type, as shown in Table 3-2. Aircraft engine type is identified from the aircraft registration "N Number" broadcast by the aircraft, and the FAA aircraft registration database, which provides details about each registered aircraft. Flight schools are identified based on the aircraft registered owner, a list of planes and N Numbers on each flight school's website, and observations of aircraft at the airport. Most aircraft are identified as piston engine (reciprocating or 4-cycle) and a majority of them are registered to flight schools.

3.3 Ambient Sound Levels

For the purposes of this analysis, the ambient daytime noise levels for each day are defined as the L_{90} dBA noise level measured during daytime hours. This is calculated by ordering all 1-second L_{eq} dBA noise level samples measured between 7:00 AM and 10:00 PM and determining the 90th percentile, which is the noise level exceeded 90 percent of the time. Noise level contributions from aircraft operations are effectively removed with the L_{90} metric.

3.4 Aircraft Noise Levels

Aircraft noise levels represent the 1-second measurement samples when any aircraft operations were audible. Noise levels are plotted against the concurrently measured distance from each aircraft to quantify the relationship between these two variables. The data indicates that at distances of 1 to 1.25 miles, aircraft begin to have an effect on noise levels and, at distances of 1 mile or less from the measurement location, aircraft have a significant influence on measured noise levels. For the purposes of this analysis operations were considered audible if the aircraft came within 1.25 miles of a measurement site at any time during the operation.

3.5 Aircraft Noise Levels without T&G Operations

Aircraft noise levels without T&G operations represent the average of all 1-second samples taken when aircraft operations were audible, but with noise levels during all times when an aircraft operation was classified as a subsequent T&G set to the ambient sound level for that day. This simulates what the average noise level would have been if T&G operations took place elsewhere, i.e., a distant airfield. Initial T&G operations were not removed from the analysis because an aircraft would need to take off and land at the airport even if T&G operations were located elsewhere. This initial T&G operation represents the takeoff and landing.

Table 3-1. Aircraft Operations by Type[3]

Day	Operation Type			Total Operations	Percentage T&G	Total Number of Unique Aircraft
	T&G	Takeoff	Landing			
1-Feb-26	133	180	179	492	27%	128
2-Feb-26	113	197	198	508	22%	127
3-Feb-26	136	123	123	382	36%	100
4-Feb-26	123	215	221	559	22%	145
5-Feb-26	212	234	237	683	31%	163
6-Feb-26	135	200	200	535	25%	150
7-Feb-26	52	81	78	211	25%	83
8-Feb-26	173	126	130	429	40%	112
9-Feb-26	19	82	72	173	11%	88
10-Feb-26	252	211	214	677	37%	124
11-Feb-26	207	178	188	573	36%	124
12-Feb-26	146	223	214	583	25%	150
13-Feb-26	203	179	180	562	36%	143
14-Feb-26	161	173	178	512	31%	118
15-Feb-26	111	124	120	355	31%	103
16-Feb-26	159	234	234	627	25%	153
17-Feb-26	7	27	31	65	11%	41
18-Feb-26	99	87	91	277	36%	93
19-Feb-26	99	95	102	296	33%	99
20-Feb-26	118	68	66	252	47%	80
21-Feb-26	114	178	173	465	25%	123
22-Feb-26	169	174	181	524	32%	131
23-Feb-26	183	198	204	585	31%	139
24-Feb-26	26	43	39	108	24%	58
25-Feb-26	24	36	32	92	26%	46
26-Feb-26	24	80	76	180	13%	90
27-Feb-26	21	69	65	155	14%	76
28-Feb-26	74	141	135	350	21%	119
Month Total	3,293	3,956	3,961	11,210	29%	-

[3] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch and go operation as two operations.

Table 3-2. Aircraft Operations by Aircraft Engine Type[4]

	Engine Type					
Day	Piston	Turboprop	Turboshaft	Turbojet	Turbofan	Unknown
1-Feb-26	446	11	7	0	26	2
2-Feb-26	446	22	8	0	28	4
3-Feb-26	317	17	10	2	36	0
4-Feb-26	479	17	17	2	33	11
5-Feb-26	594	21	14	0	48	6
6-Feb-26	472	20	7	0	29	7
7-Feb-26	177	7	5	0	20	2
8-Feb-26	379	8	6	0	31	5
9-Feb-26	102	26	6	0	37	2
10-Feb-26	593	28	11	0	38	7
11-Feb-26	509	22	8	0	31	3
12-Feb-26	487	26	17	0	49	4
13-Feb-26	481	14	7	0	54	6
14-Feb-26	472	14	2	0	24	0
15-Feb-26	321	9	1	0	22	2
16-Feb-26	540	22	10	0	49	6
17-Feb-26	7	11	0	0	45	2
18-Feb-26	215	18	5	0	32	7
19-Feb-26	235	11	4	0	44	2
20-Feb-26	185	19	2	0	42	4
21-Feb-26	418	9	4	0	29	5
22-Feb-26	467	10	3	0	39	5
23-Feb-26	499	16	20	1	39	10
24-Feb-26	33	14	11	1	41	8
25-Feb-26	44	16	4	0	23	5
26-Feb-26	100	16	10	0	44	10
27-Feb-26	87	20	4	6	28	10
28-Feb-26	287	16	22	0	22	3
Month Total	9,392	460	225	12	983	138

[4] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch and go operation as two operations.

4. Noise Measurement and Analysis Results

Tables 4-1 through 4-3 provide a summary of the noise levels and aircraft operations measured during each day of February 2026 at each of the three measurement locations. The tables provide the following information:

- The daily measured ambient (background) sound level (L_{90}).
- The number of audible aircraft operations each day. For the purposes of this analysis operations were considered audible if aircraft came within 1.25 miles of a measurement site, based on an analysis of measured noise level and aircraft distance data. This will exclude any takeoffs and landings from and to runways 30 L and 30 R.
- The average measured noise level with aircraft from the airport present (within 1.25 miles).
- The number of decibels that aircraft noise is above the daily ambient sound level.
- The number of minutes each day that aircraft were present, and the noise level they generated that exceeded the ambient sound level by at least 5, 10, and 20 dBA, respectively.
- This information is then repeated with T&G operations excluded from the analysis.

Table 4-1. Summary of Measured Noise Levels[5] and Aircraft Operations[6] – Water Bladder

Date	Ambient Noise Level (dBA)	Daytime - All Operations						Daytime - T&G Operation Removed					
		Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels			Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels		
					> 5 dBA	> 10 dBA	> 20 dBA				> 5dBA	> 10 dBA	> 20 dBA
1-Feb-26	41	272	57	16	207	120	20	170	55	14	103	64	13
2-Feb-26	44	283	57	13	176	81	10	206	55	11	101	46	6
3-Feb-26	45	222	56	11	148	63	5	120	53	8	61	27	2
4-Feb-26	43	348	56	13	164	68	10	264	55	12	115	50	8
5-Feb-26	44	448	56	12	230	85	11	292	54	10	115	46	7
6-Feb-26	45	328	55	10	161	53	4	235	54	9	100	36	4
7-Feb-26	42	106	54	13	62	26	3	72	53	11	35	16	3
8-Feb-26	41	265	55	14	205	100	11	125	52	11	74	42	7
9-Feb-26	43	56	55	12	26	9	1	51	55	12	23	8	1
10-Feb-26	44	456	55	11	122	36	4	254	53	9	54	19	3
11-Feb-26	-	341	-	-	-	-	-	188	-	-	-	-	-
12-Feb-26	-	325	-	-	-	-	-	225	-	-	-	-	-
13-Feb-26	37	340	58	20	96	70	18	181	48	11	28	18	3
14-Feb-26	35	327	55	20	248	171	37	204	49	14	109	72	12
15-Feb-26	35	188	51	16	139	69	11	106	47	12	59	29	3
16-Feb-26	36	349	55	19	292	208	40	240	50	14	154	101	13
17-Feb-26	-	10	-	-	-	-	-	7	-	-	-	-	-
18-Feb-26	36	149	53	17	153	92	13	86	47	11	59	31	3
19-Feb-26	-	156	-	-	-	-	-	87	-	-	-	-	-
20-Feb-26	35	158	67	32	147	120	38	75	60	25	45	37	8
21-Feb-26	34	231	57	23	204	154	38	158	54	20	110	80	15
22-Feb-26	33	318	56	23	301	254	76	185	50	17	128	104	22
23-Feb-26	35	302	54	18	240	169	31	162	49	13	101	69	9
24-Feb-26	37	42	56	19	21	14	3	33	53	16	12	9	2
25-Feb-26	-	38	-	-	-	-	-	21	-	-	-	-	-
26-Feb-26	-	78	-	-	-	-	-	66	-	-	-	-	-
27-Feb-26	-	60	-	-	-	-	-	51	-	-	-	-	-
28-Feb-26	32	196	58	26	173	100	21	148	58	25	102	63	15
Monthly Average	**39**	**228**	**56**	**17**	**167**	**98**	**19**	**143**	**53**	**14**	**80**	**46**	**7**
Monthly Total	**-**	**6,392**	**-**	**-**	**3,516**	**2,063**	**404**	**4,012**	**-**	**-**	**1,688**	**967**	**157**

[5] No usable noise data February 17, 19, or 25-27 due to high wind and February 11 or 12 due to meter malfunction.

[6] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch-and-go operation as two operations.

Table 4-2. Summary of Measured Noise Levels[7] and Aircraft Operations[8] – Community Center

Date	Ambient Noise Level (dBA)	Daytime - All Operations						Daytime - T&G Operation Removed					
		Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels			Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels		
					> 5 dBA	> 10 dBA	> 20 dBA				> 5dBA	> 10 dBA	> 20 dBA
1-Feb-26	35	301	58	22	256	178	43	199	57	21	181	123	24
2-Feb-26	35	311	54	19	269	180	32	234	52	17	203	127	17
3-Feb-26	37	245	57	20	218	154	30	143	52	15	130	84	12
4-Feb-26	37	355	52	15	224	114	13	271	51	14	183	96	11
5-Feb-26	38	457	54	16	252	139	21	300	52	15	164	87	11
6-Feb-26	36	332	51	15	226	125	16	240	50	13	170	92	10
7-Feb-26	36	124	53	17	106	67	10	90	51	15	83	53	7
8-Feb-26	35	290	55	20	249	193	42	150	52	17	141	106	21
9-Feb-26	-	89	-	-	-	-	-	83	-	-	-	-	-
10-Feb-26	40	456	52	12	200	72	6	254	51	10	111	44	4
11-Feb-26	43	358	59	16	270	171	27	207	57	15	169	111	21
12-Feb-26	45	344	59	14	234	119	13	240	59	13	179	97	12
13-Feb-26	45	360	59	15	239	145	20	203	58	14	148	96	16
14-Feb-26	42	334	57	15	210	108	18	211	56	14	153	84	15
15-Feb-26	39	198	53	14	124	57	6	117	52	13	87	45	5
16-Feb-26	43	369	58	15	264	158	24	261	57	15	209	130	22
17-Feb-26	42	24	62	20	9	5	1	23	62	20	8	5	1
18-Feb-26	41	152	56	16	101	44	7	88	56	15	60	28	6
19-Feb-26	42	166	55	13	107	40	4	94	53	11	63	26	4
20-Feb-26	44	173	59	14	95	51	7	90	57	13	50	31	6
21-Feb-26	42	271	56	14	194	102	14	198	55	13	153	82	12
22-Feb-26	42	339	57	15	222	128	20	206	57	14	157	96	17
23-Feb-26	41	348	57	16	250	145	22	212	56	15	182	115	19
24-Feb-26	43	54	60	17	26	16	3	45	60	17	23	15	3
25-Feb-26	-	54	-	-	-	-	-	38	-	-	-	-	-
26-Feb-26	42	94	58	16	67	40	6	82	58	16	59	37	5
27-Feb-26	41	82	61	20	62	33	5	73	61	20	56	31	5
28-Feb-26	41	209	56	15	152	69	10	161	56	15	123	59	10
Monthly Average	**40**	**246**	**56**	**16**	**178**	**102**	**16**	**161**	**55**	**15**	**125**	**73**	**11**
Monthly Total	**-**	**6,889**	**-**	**-**	**4,626**	**2,653**	**419**	**4,513**	**-**	**-**	**3,247**	**1,896**	**297**

[7] No usable noise data from February 9 or 25 due to high wind.

[8] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch-and-go operation as two operations.

Table 4-3. Summary of Measured Noise Levels[9] and Aircraft Operations[10] – Pirate Park

Date	Ambient Noise Level (dBA)	Daytime - All Operations						Daytime - T&G Operation Removed					
		Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels			Number of Audible Operations	Average Noise Level with Aircraft (dBA)	Aircraft Noise Level Increase Above Ambient (dBA)	Duration of Aircraft Noise Levels		
					> 5 dBA	> 10 dBA	> 20 dBA				> 5dBA	> 10 dBA	> 20 dBA
1-Feb-26	36	302	59	23	291	243	92	200	56	20	172	142	46
2-Feb-26	36	311	58	21	271	206	54	234	54	18	183	136	30
3-Feb-26	39	247	59	20	230	170	51	144	54	16	115	84	19
4-Feb-26	38	355	55	18	215	133	23	271	54	16	168	105	17
5-Feb-26	37	457	57	20	297	198	45	300	54	17	169	115	24
6-Feb-26	37	336	55	18	233	140	26	244	53	16	159	99	18
7-Feb-26	35	127	57	22	122	106	51	92	55	20	83	72	33
8-Feb-26	35	292	60	25	294	269	178	150	55	21	131	118	69
9-Feb-26	-	91	-	-	-	-	-	85	-	-	-	-	-
10-Feb-26	39	457	54	15	235	116	13	255	52	13	113	58	9
11-Feb-26	40	365	61	21	311	235	72	207	55	15	150	112	27
12-Feb-26	39	348	59	20	308	222	60	242	56	17	199	140	30
13-Feb-26	39	362	61	22	307	238	86	203	54	15	130	100	24
14-Feb-26	35	336	58	23	267	199	65	213	53	18	150	112	33
15-Feb-26	34	198	54	20	165	121	36	117	51	17	90	67	20
16-Feb-26	37	378	58	21	321	243	75	267	55	18	207	157	39
17-Feb-26	-	26	-	-	-	-	-	23	-	-	-	-	-
18-Feb-26	36	153	56	20	146	94	25	89	52	15	69	46	11
19-Feb-26	37	169	57	20	155	111	26	97	53	16	76	53	13
20-Feb-26	37	173	61	24	153	115	44	90	55	18	63	48	17
21-Feb-26	35	271	59	24	255	212	97	198	55	20	170	143	61
22-Feb-26	36	339	59	23	313	240	89	206	54	19	167	127	40
23-Feb-26	36	362	59	23	320	277	129	217	56	19	185	165	83
24-Feb-26	-	58	-	-	-	-	-	47	-	-	-	-	-
25-Feb-26	-	56	-	-	-	-	-	39	-	-	-	-	-
26-Feb-26	-	97	-	-	-	-	-	85	-	-	-	-	-
27-Feb-26	-	83	-	-	-	-	-	74	-	-	-	-	-
28-Feb-26	35	210	57	22	170	115	47	162	56	21	125	88	39
Monthly Average	**37**	**249**	**58**	**21**	**244**	**182**	**63**	**163**	**54**	**17**	**140**	**104**	**32**
Monthly Total	**-**	**6,959**	**-**	**-**	**5,378**	**4,003**	**1,382**	**4,551**	**-**	**-**	**3,071**	**2,286**	**704**

[9] No usable noise data from February 9, 17, or 24-27 due to high wind.

[10] This report counts each touch and go operation as a single operation. The Federal Aviation Administration counts each touch-and-go operation as two operations.

Item Number:5.a.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving Planning Commission Appointment by way of Vote
Meeting Date:	May 11, 2026
Presented By:	Matt Magley, Town Manager
Presented For:	Action

Background:
Section 2-12-40 of the Superior Municipal Code addresses membership of Town Advisory Committees, including appointments. The Planning Commission (PC) has 1 vacancy and 3 applicants with their interview dates as outlined below. This vacancy has been posted through Town media over recent months. The Council has the option to vote to appoint or not appoint a candidate, and staff will continue to advertise the vacancy(s).

Planning Commission (PC) – 1 vacancy
- Samuel Feldman – 4/27/26
- Tim Peterson – 3/23/27
- Ryan Welch – 3/23/27

ALTERNATIVES CONSIDERED:
Make no appointments and continue to advertise to fill the vacancy.

Recommendation:

Budget Implications:
None

Motion:
Move to approve the Resolution making an appointment to the Planning Commission

Attachments:

1. Resolution_PC Appointment_05.11.26

Town of Superior
Resolution Number R-44
Series 2026

A Resolution of the Town Council of the Town of Superior Making Appointments to the Planning Commission.

WHEREAS, Commissioner Lonny Rose resigned from the Planning Commission; and

WHEREAS, interviews were held with interested applicants.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Town Council hereby makes the following appointment to the Planning Commission:

Name	**Term Expires**
_____	**June 2030 (Full Term)**

ADOPTED this 11th day of May, 2026.

_____

Mark Lacis, Mayor

ATTEST:

_____

Shannon Dujardin, Town Clerk

Item Number:5.b.

Information for Meeting of the Superior Town Council

Agenda Item Name:	Consideration of Resolution of the Town Council of the Town of Superior Approving Construction Contracts for the North and South Pool Projects
Meeting Date:	May 11, 2026
Presented By:	Brannon Richards, Public Works and Utilities Director, Leslie Clark, Parks, Recreation and Open Space Director, Jordan Hayes, Project Manager - PWU
Presented For:	Action Approval

Background:

North Pool, located at 1650 S. Indiana Street, was originally constructed over 30 years ago as part of Superior Metropolitan Districts 2 and 3 and was assumed as a Town asset in 2004. South Pool, located at 3300 Huron Peak Avenue, was constructed in 2000 as part of Superior Metropolitan Districts 2 & 3 and was assumed as a Town asset in 2004. Both facilities have since continued to age, experiencing intermittent service disruptions due to ongoing repairs. Comprehensive renovation of both facilities is recommended to address operational and safety needs, while also incorporating more efficient mechanical and sanitation systems aligned with the Town's sustainability goals. Both pool projects were identified as project needs and were listed as projects in the 2024 Sales Tax Ballot Measure language, which passed in November 2024.

The Town retained Barker Rinker Seacat Architecture (BRS) to complete the design of both pool renovations. Design for the North Pool was finalized in late 2025, and design for the South Pool was completed in March 2026.

Construction for each pool project was advertised for bid separately on April 1, 2026. Bidders were permitted to submit proposals for one or both projects and were encouraged to identify any cost savings associated with being awarded both contracts. Each project also included multiple bid alternates to provide flexibility in managing project costs if needed. The Town received six (6) bids for the North Pool project and seven (7) bids for the South Pool project. AD Miller Construction submitted the lowest responsive bid for both projects and proposed a total cost

savings of $150,000 ($75,000 per project) if awarded both contracts.

AD Miller Construction has an established track record with the Town, having served as Construction Manager for both projects during the design phase. In this role, they collaborated closely with Town staff and BRS to identify cost-saving opportunities and to evaluate project feasibility and scheduling considerations.

Schedule
Following Town Council approval, project kickoffs are anticipated on June 2, 2026. Mobilization is scheduled to begin on August 24, 2026, with demolition and construction activities commencing on August 28, 2026. Substantial completion of both pool facilities is targeted for May 13, 2027, with final preparations and commissioning to follow in advance of a planned public opening on May 28, 2027.

Recommendation:
Staff recommends approval of the contract with AD Miller Construction for the North Pool Renovation Project in the amount of $4,422,060.08, as well as the contract with AD Miller Construction for the South Pool Renovation Project in the amount of $5,083,954.33.

Budget Implications:

Project	Year	Budget Amount (Bond + CIP + CTF)	Soft Costs (Design, Fap Fees, FF&E)	Filter Replacement (South Only)	Funds Available for Construction	Construction Bid Amount
North Pool	2025-2028	$5.600,000	$748,137		$4.851,863	$4,422,060.08
South Pool	2025-2028	$5,000,000	$745,825	$210,530	$4,043,645	$5,083,954.33

Project	Year	Budget Amount (Bond + CIP + CTF)	Total Cost for Both Pool Projects	Budget Gap
North & South Pools	2025-2028	$10,600,000	$11,210,506.41	($610,506.41)

Motion:
Move to adopt a Resolution approving the contract with AD Miller Construction for the North Pool Renovation Project in the amount of $4,422,060.08, as well as as Resolution approving the

contract with AD Miller Construction for the South Pool Renovation Project in the amount of $5,083,954.33.

Attachments:

1. North & South Pool Construction Contracts Presentation
2. Resolution AD Miller North Pool-R050426
3. Resolution AD Miller South Pool-R050426
4. AD Miller North Pool - Town Construction Long Form
5. AD Miller South Pool - Town Construction Long Form
6. Bid Tab North Pool
7. Bid Tab South Pool
8. North Pool Construction Drawings 05042026
9. South Pool Construction Drawings 05042026

North & South Pool Construction Contracts

A.D. Miller Construction

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Bid Results

	North Pool	South Pool
Bids Received	6	7
Low Bidder	AD Miller	AD Miller
Bid Amount	$4,422,060	$5,083,954

Bid Amounts include $150k total discount for awarding both contracts,
$250k contingency for each pool, and alternates highlighted on next slide.

Base Bids & Alternates

North Pool

BASE BID TOTAL	$4,148,723.67
OWNER'S PROJECT CONTINGENCY LUMP SUM	$250,000.00
BASE BID TOTAL + OWNER'S CONTINGECY	$4,398,723.67

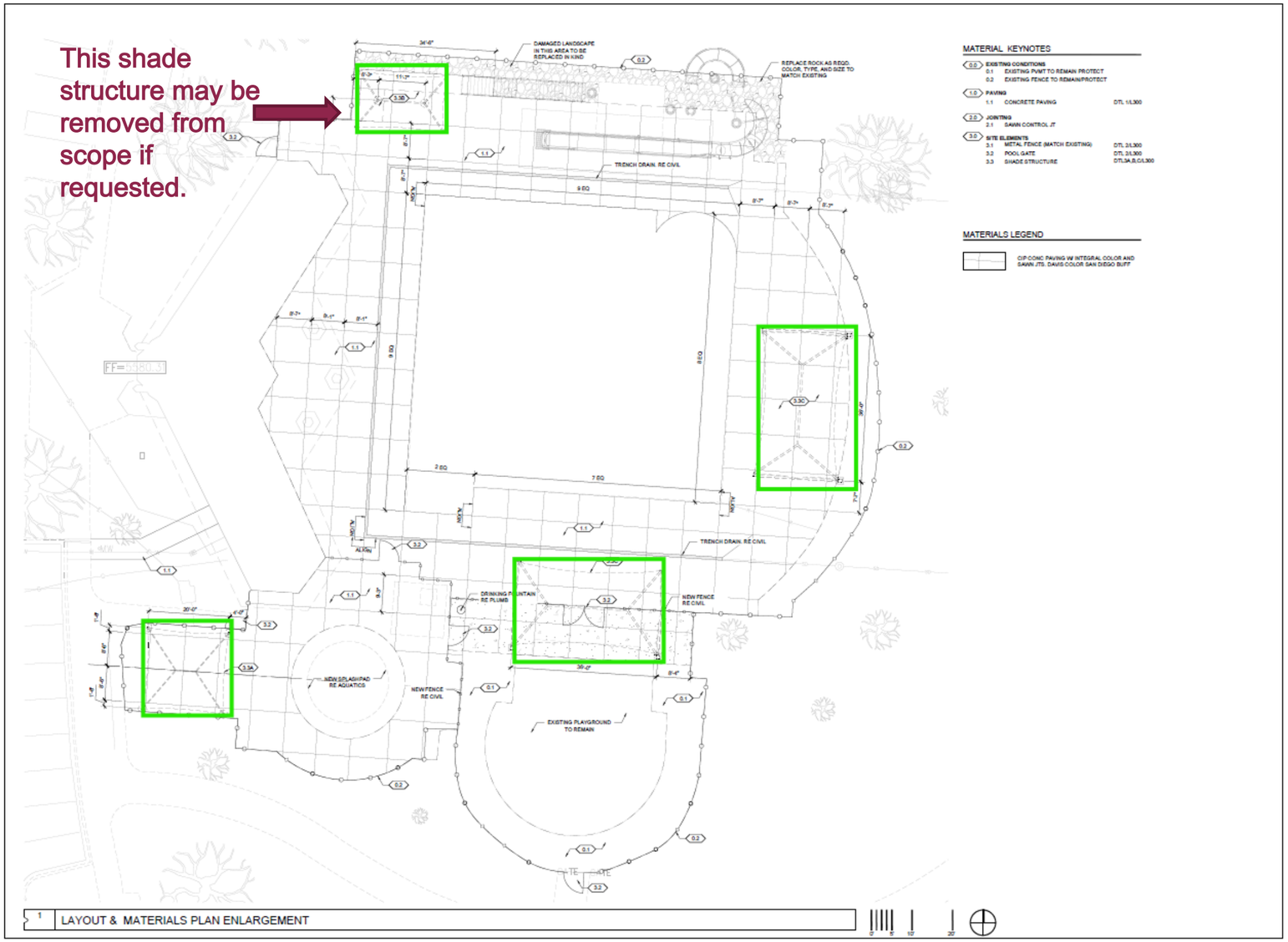
ALTERNATES - LISTED ON COVER SHEET				
01	ADD ALTERNATE	SLAB DRAINAGE IN BATHHOUSE. REFERENCE A150.	$	15,512.24
03	ADD ALTERNATE	ADD (2) NEW PARK-IT WAVE BIKE RACKS (18 BIKES) WITH PAD AND FOUNDATION ADJACENT TO EXISTING	$	5,741.22
04	ADD ALTERNATE	REPLACE EXISTING SHADES WITH NEW FABRIC ON METAL FRAMES	$	10,280.92
05	ADD ALTERNATE	(1) NEW 14X40 SHADE STRUCTURE WITH FRAME ON NORTH SIDE	$	66,802.03
ALTERNATES TOTAL				$98,336.41

South Pool

BASE BID TOTAL	$4,899,903.77
OWNER'S PROJECT CONTINGENCY LUMP SUM	$250,000.00
BASE BID TOTAL + OWNER'S CONTINGECY	$5,149,903.77

ALTERNATES - LISTED ON COVER SHEET				
01	DEDUCT ALTERNATE	REMOVE 2 PLAY FEATURES FROM SPLASHPAD, 2 RESTORATIVE JETS & 3 WATER GEYSERS AT CURRENT CHANNEL	$	(51,495.86)
02	ADD ALTERNATE	REPLACE CONCRETE FLOORING IN RESTROOMS WITH NEW SLOPED SLAB (A150)	$	9,050.56
03	ADD ALTERNATE	ADD LIGHTNING PROTECTION AT BATHHOUSE	$	21,267.92
04	DEDUCT ALTERNATE	REMOVE DECK SHOWERS FROM SCOPE	$	(2,676.50)
05	DEDUCT ALTERNATE	REMOVE 4 SHADE STRUCTURES FROM POOL DECK (PRICE INDIVIDUALLY)	$	(171,851.00)
06	DEDUCT ALTERNATE	GUARDS 105 & STORAGE 104 TO REMAIN AS IS	$	(13,725.09)
07	DEDUCT ALTERNATE	REMOVE UNDERWATER LED LIGHTS FROM POOL SCOPE	$	(20,534.11)
08	DEDUCT ALTERNATE	REMOVE LIGHT BOLLARDS ON POOL DECK FROM SCOPE	$	(4,733.12)
09	DEDUCT ALTERNATE	REMOVE ALL WALL TILE IN RESTROOMS	$	(26,300.00)
10	DEDUCT ALTERNATE	REMOVE TWO TALL WARDROBE CABINETS AT CONTROL DESK	$	(2,310.00)
11	DEDUCT ALTERNATE	REMOVE NEW STOREFRONT DOORS AT FRONT AND BACK LOBBY	$	(5,972.87)
12	DEDUCT ALTERNATE	REPLACE LIFEFLOOR FINISH AT SPLASHPAD WITH FINISHED CONCRETE	$	(31,723.90)
ALTERNATES TOTAL				-$301,003.97

South Pool Shade



Budget

North Pool

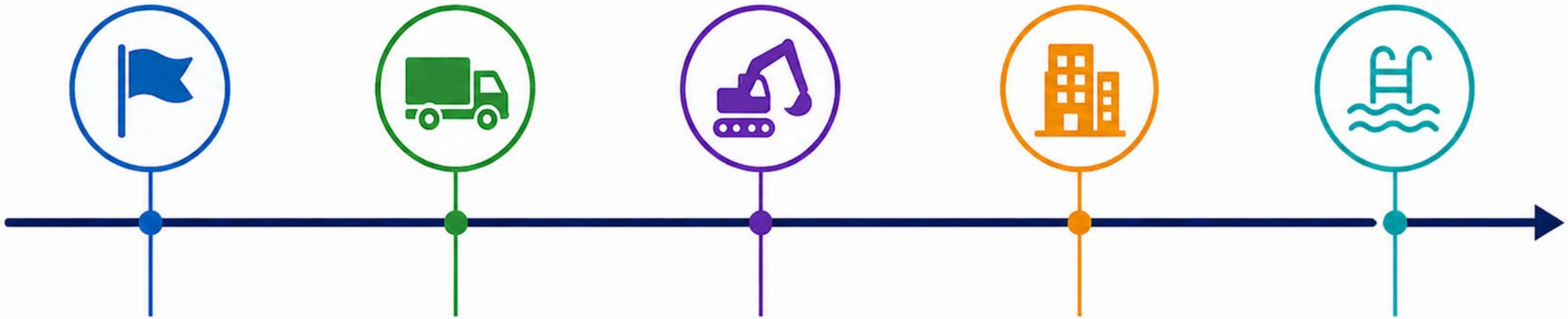
soft costs	Design	$ 426,137.00
	FFE	$ 80,000.00
	Tap Fees	$ 150,000.00
	Xcel/Security	$ 92,000.00
	Construction	$ 4,172,060.08
	Contingency	$ 250,000.00
		$ 5,170,197.08

South Pool

soft costs	Design	$ 465,825.00
	FFE	$ 80,000.00
	Tap Fees	$ 150,000.00
	Xcel/Security	$ 50,000.00
	Filter Replace	$ 210,530.00
	Construction	$ 4,833,954.33
	Contingency	$ 250,000.00
		$ 6,040,309.33

Budget	$	10,600,000.00
Pool Totals	$	11,210,506.41
Budget Gap	$	(610,506.41)

PROJECT SCHEDULES



June 2, 2026
Project Kickoffs

August 24, 2026
Mobilization

August 28, 2026
Demo & Construction begin

May 13, 2027
Construction Complete

May 28, 2027
Pools Open



Thank you!

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Town of Superior
Resolution Number R-45
Series 2026

A Resolution of the Town Council of the Town of Superior approving a Construction Contract with AD Miller Construction for the North Pool Renovation Project

Whereas, the North Pool facility is aging and needs replacement;

Whereas, the Town desires to renovate the North Pool prior to the 2027 swim season; and

Whereas, the Town Council finds it in the best interest of the public health, safety and welfare to enter into a construction contract with AD Miller Construction for the North Pool Renovation Project.

Now, therefore, be it resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Construction Contract between the Town and AD Miller Construction is hereby approved in substantially the same form attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Construction Contract on behalf of the Town.

Adopted this 11th day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Town of Superior
Resolution Number R-46
Series 2026

A Resolution of the Town Council of the Town of Superior Approving a Construction Contract with AD Miller Construction for the South Pool Renovation Project

Whereas, the South Pool facility is aging and needs replacement;

Whereas, the Town desires to renovate the South Pool prior to the 2027 swim season; and

Whereas, the Town Council finds it in the best interest of the public health, safety and welfare to enter into a construction contract with AD Miller Construction for the South Pool Renovation Project.

Now, Therefore, be it Resolved by the Town Council of the Town of Superior, Colorado, as follows:

Section 1. The Construction Contract between the Town and AD Miller Construction is hereby approved in substantially the same form attached hereto, subject to final approval by the Town Attorney. Upon such approval, the Mayor is authorized to execute the Construction Contract on behalf of the Town.

Adopted this 11th day of May, 2026.

_____

Mark Lacis, Mayor

Attest:

_____

Shannon Dujardin, Town Clerk

Construction Contract

North Pool Renovation PW-2026-06

This Construction Contract (the "Contract") is made and entered into this _____ day of May, 2026 (the "Effective Date"), by and between the Town of Superior, 124 East Coal Creek Drive, Superior, CO 80027, a Colorado municipal corporation (the "Town"), and A.D Miller Services, Inc, an independent contractor with a principal place of business at 7006 Alton Way, Bldg E, Ste 100, Centennial, CO, 80112 ("Contractor") (each a "Party" and collectively the "Parties").

Whereas, the Town issued a Request for Bids for the construction of the Project, dated April 1, 2026 ("Request for Bids"), which is incorporated by this reference as if fully set forth here. The Town subsequently issued Addendums 1 through 8, all of which are also incorporated by this reference as if fully set forth here.

Whereas, Contractor responded to the Request for Bids and submitted its Bid for the Project on April 29, 2026, which Bid is incorporated by this reference as if fully set forth here.

Whereas, the Town has determined that Contractor submitted the most responsible and responsive Bid which is the lowest cost and has selected Contractor to perform the Work, subject to the terms and conditions of the Contract Documents.

For the consideration hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Contract Documents. The "Contract Documents" for this Project consist of the following: Bid Form (Including Bid Summary), Bid Schedule, Bidder's Qualification Statement, Construction Contract, Certificate of Insurance, Notice Of Award, Notice To Proceed (if required by the Request for Bids), Bid Bond (if required by the Request for Bids), Payment And Performance Bond (if required by the Request for Bids), Certificate Of Final Payment (if required by the Request for Bids), Certificate of Final Acceptance Form (if required by the Request for Bids), General Provisions, Special Provisions, Technical Specifications, Construction Drawings, Addenda, if any, issued to the Bid Documents Request for Bids, and Documentation submitted by Contractor prior to Notice of Award. Any conflicts or inconsistencies between or among any of the Contract Documents shall be resolved in accordance with the order of precedence specified in Section 8.04 of the General Provisions. If any questions arise as to which requirement is more stringent than another, the Project Manager shall be authorized to determine which is more stringent, and the Project Manager's decision shall be final.

2. Scope of Work. Contractor shall perform the following described work (the "Work"), in accordance with and reasonably inferable from this Contract and the Contract Documents incorporated herein by this reference, necessary for the successful completion of the Project:

All labor, services, material, and other work necessary for the Project, as identified in the Unit-Price Bid Form and shown or called for in the Contract Documents.

3. Bonds. Contractor ☒ is or □ is not required to furnish a payment and performance bond for this Project. Within 10 days of the Effective Date, Contractor shall provide the payment and performance bond (if required) and certificate of insurance required by the Contract Documents.

4. Commencement and Completion of Work. Contractor shall commence the Work identified in the Notice to Proceed either ☒ within 10 days of date of the Notice to Proceed, or □ on or before _____ *(insert date)*. Substantial Completion of the entirety of the Work for the Project shall be accomplished by Contractor within 353 days of the Notice to Proceed, unless the time within which Contractor is required to achieve Substantial Completion is subsequently extended in accordance with the Contract Documents. Final Completion and Final Acceptance of the Work shall be accomplished within 13 days of the date of Substantial Completion.

5. Contract Price. The Town agrees to pay Contractor, subject to all of the terms and conditions of the Contract Documents, for the Work, at the unit Bid prices shown in the Bid Schedule and the Unit-Price Bid Form for the actual quantity of the Work placed and accepted by the Town, as determined by the Project Manager, in an amount not to exceed $4,422,060.08. The Town shall pay Contractor in the manner and at such times as set forth in the General Provisions such amounts as required by the Contract Documents. The Contract Price includes a base amount of $4,172,060.08 and a contingency of $250,000. Payment to Contractor of any portion of the contingency amount requires the Town's express, written approval. The contingency amount paid to Contractor, if any, shall not result in or serve as the basis for any increase to the Contract Price. In no event shall any portion of the contingency amount be used to cover costs arising from the failure, negligence, mistake or misconduct of Contractor or any of Contractor's subcontractors or suppliers or anyone for whom any of them may be liable. The Contract Price shall include all fees, costs and expenses incurred by Contractor.

6. Keep Jobs In Colorado Act. Pursuant to the Keep Jobs in Colorado Act, C.R.S. § 8-17-101, *et seq.* (the "Act"), and the rules adopted by the Division of Labor of the Colorado Department of Labor and Employment implementing the Act (the "Rules"), Contractor shall employ Colorado labor to perform at least 80% of the Work under this Contract and shall obtain and maintain the records required by the Act and the Rules. For purposes of this Section, "Colorado labor" means a person who is a resident of the state of Colorado at the time of this Project, without discrimination as to race, color, creed, sex, sexual orientation, gender identity, gender expression, marital status, national origin, ancestry, age, or religion except when sex or age is a *bona fide* occupational qualification. A resident of the state of Colorado is a person with a valid Colorado driver's license, a valid Colorado state-issued photo identification, or documentation that he or she has resided in Colorado for the last 30 days. Contractor represents that it is familiar with the requirements of the Act and the Rules and will fully comply with same. This Section shall not apply to any project for which appropriation or expenditure of monies may be reasonably expected not to exceed $500,000 in the aggregate for any fiscal year.

7. Miscellaneous.

a. *Governing Law and Venue*. This Contract shall be governed by the laws of the State of Colorado, and any legal action concerning the provisions hereof shall be brought in Boulder County, Colorado.

b. *No Waiver*. Delays in enforcement or the waiver of any one or more defaults or breaches of this Contract by the Town shall not constitute a waiver of any of the other terms or obligation of this Contract.

c. *Integration*. This Contract, the Contract Documents, and any attached exhibits constitute the entire Contract between Contractor and the Town, superseding all prior oral or written communications.

d. *Third Parties*. There are no intended third-party beneficiaries to this Contract.

e. *Notice*. Any notice under this Contract shall be in writing, and shall be deemed sufficient when directly presented or sent pre-paid, first class U.S. Mail to the Party at the address set forth on the first page of this Contract.

f. *Severability*. If any provision of this Contract is found by a court of competent jurisdiction to be unlawful or unenforceable for any reason, the remaining provisions hereof shall remain in full force and effect.

g. *Modification*. This Contract may only be modified upon written agreement of the Parties.

h. *Assignment*. Neither this Contract nor any of the rights or obligations of the Parties shall be assigned by either Party without the written consent of the other.

i. *Governmental Immunity*. The Town and its officers, attorneys and employees are relying on, and do not waive or intend to waive by any provision of this Contract, the monetary limitations or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, or otherwise available to the Town and its officers, attorneys or employees.

j. *Rights and Remedies*. The rights and remedies of the Town under this Contract are in addition to any other rights and remedies provided by law. The expiration of this Contract shall in no way limit the Town's legal or equitable remedies, or the period in which such remedies may be asserted, for work negligently or defectively performed.

k. *Subject to Annual Appropriation*. Consistent with Article X, § 20 of the Colorado Constitution, any financial obligation of the Town not performed during the current fiscal year is subject to annual appropriation, shall extend only to monies currently appropriated, and shall not constitute a mandatory charge, requirement or liability beyond the current fiscal year.

l. *Accessibility*. Contractor shall comply with the accessibility standards for an individual with a disability adopted by the State Office of Information Technology pursuant to C.R.S. § 24-85-103, and shall indemnify, hold harmless and assume liability on behalf of the Town and its officers, employees, agents and attorneys for all costs, expenses, claims, damages, liabilities, court awards, attorney fees and related costs, and any other amounts incurred by the Town in relation to Contractor's noncompliance with such accessibility standards.

In witness whereof, this Construction Contract has been executed by the Parties as of the Effective Date.

Town of Superior, Colorado

_____

Mark Lacis, Mayor

Attest:

_____
Shannon Dujardin, Town Clerk

Contractor

By: _____

Construction Contract

South Pool Renovation PW-2026-05

This Construction Contract (the "Contract") is made and entered into this _____ day of May, 2026 (the "Effective Date"), by and between the Town of Superior, 124 East Coal Creek Drive, Superior, CO 80027, a Colorado municipal corporation (the "Town"), and A.D Miller Services, Inc, an independent contractor with a principal place of business at 7006 Alton Way, Bldg E, Ste 100, Centennial, CO, 80112 ("Contractor") (each a "Party" and collectively the "Parties").

Whereas, the Town issued a Request for Bids for the construction of the Project, dated April 1, 2026 ("Request for Bids"), which is incorporated by this reference as if fully set forth here. The Town subsequently issued Addendums 1 through 7, all of which are also incorporated by this reference as if fully set forth here.

Whereas, Contractor responded to the Request for Bids and submitted its Bid for the Project on April 29, 2026, which Bid is incorporated by this reference as if fully set forth here.

Whereas, the Town has determined that Contractor submitted the most responsible and responsive Bid which is the lowest cost and has selected Contractor to perform the Work, subject to the terms and conditions of the Contract Documents.

For the consideration hereinafter set forth, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Contract Documents. The "Contract Documents" for this Project consist of the following: Bid Form (Including Bid Summary), Bid Schedule, Bidder's Qualification Statement, Construction Contract, Certificate of Insurance, Notice Of Award, Notice To Proceed (if required by the Request for Bids), Bid Bond (if required by the Request for Bids), Payment And Performance Bond (if required by the Request for Bids), Certificate Of Final Payment (if required by the Request for Bids), Certificate of Final Acceptance Form (if required by the Request for Bids), General Provisions, Special Provisions, Technical Specifications, Construction Drawings, Addenda, if any, issued to the Bid Documents Request for Bids, and Documentation submitted by Contractor prior to Notice of Award. Any conflicts or inconsistencies between or among any of the Contract Documents shall be resolved in accordance with the order of precedence specified in Section 8.04 of the General Provisions. If any questions arise as to which requirement is more stringent than another, the Project Manager shall be authorized to determine which is more stringent, and the Project Manager's decision shall be final.

2. Scope of Work. Contractor shall perform the following described work (the "Work"), in accordance with and reasonably inferable from this Contract and the Contract Documents incorporated herein by this reference, necessary for the successful completion of the Project:

All labor, services, material, and other work necessary for the Project, as identified in the Unit-Price Bid Form and shown or called for in the Contract Documents.

3. Bonds. Contractor ☒ is or □ is not required to furnish a payment and performance bond for this Project. Within 10 days of the Effective Date, Contractor shall provide the payment and performance bond (if required) and certificate of insurance required by the Contract Documents.

4. Commencement and Completion of Work. Contractor shall commence the Work identified in the Notice to Proceed either ☒ within 10 days of date of the Notice to Proceed, or □ on or before _____ *(insert date)*. Substantial Completion of the entirety of the Work for the Project shall be accomplished by Contractor within 353 days of the Notice to Proceed, unless the time within which Contractor is required to achieve Substantial Completion is subsequently extended in accordance with the Contract Documents. Final Completion and Final Acceptance of the Work shall be accomplished within 13 days of the date of Substantial Completion.

5. Contract Price. The Town agrees to pay Contractor, subject to all of the terms and conditions of the Contract Documents, for the Work, at the unit Bid prices shown in the Bid Schedule and the Unit-Price Bid Form for the actual quantity of the Work placed and accepted by the Town, as determined by the Project Manager, in an amount not to exceed $5,083,954.33. The Town shall pay Contractor in the manner and at such times as set forth in the General Provisions such amounts as required by the Contract Documents. The Contract Price includes a base amount of $4,833,954.33 and a contingency of $250,000. Payment to Contractor of any portion of the contingency amount requires the Town's express, written approval. The contingency amount paid to Contractor, if any, shall not result in or serve as the basis for any increase to the Contract Price. In no event shall any portion of the contingency amount be used to cover costs arising from the failure, negligence, mistake or misconduct of Contractor or any of Contractor's subcontractors or suppliers or anyone for whom any of them may be liable. The Contract Price shall include all fees, costs and expenses incurred by Contractor.

6. Keep Jobs In Colorado Act. Pursuant to the Keep Jobs in Colorado Act, C.R.S. § 8-17-101, *et seq.* (the "Act"), and the rules adopted by the Division of Labor of the Colorado Department of Labor and Employment implementing the Act (the "Rules"), Contractor shall employ Colorado labor to perform at least 80% of the Work under this Contract and shall obtain and maintain the records required by the Act and the Rules. For purposes of this Section, "Colorado labor" means a person who is a resident of the state of Colorado at the time of this Project, without discrimination as to race, color, creed, sex, sexual orientation, gender identity, gender expression, marital status, national origin, ancestry, age, or religion except when sex or age is a *bona fide* occupational qualification. A resident of the state of Colorado is a person with a valid Colorado driver's license, a valid Colorado state-issued photo identification, or documentation that he or she has resided in Colorado for the last 30 days. Contractor represents that it is familiar with the requirements of the Act and the Rules and will fully comply with same. This Section shall not apply to any project for which appropriation or expenditure of monies may be reasonably expected not to exceed $500,000 in the aggregate for any fiscal year.

7. Miscellaneous.

a. *Governing Law and Venue*. This Contract shall be governed by the laws of the State of Colorado, and any legal action concerning the provisions hereof shall be brought in Boulder County, Colorado.

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c. *Integration*. This Contract, the Contract Documents, and any attached exhibits constitute the entire Contract between Contractor and the Town, superseding all prior oral or written communications.

d. *Third Parties*. There are no intended third-party beneficiaries to this Contract.

e. *Notice*. Any notice under this Contract shall be in writing, and shall be deemed sufficient when directly presented or sent pre-paid, first class U.S. Mail to the Party at the address set forth on the first page of this Contract.

f. *Severability*. If any provision of this Contract is found by a court of competent jurisdiction to be unlawful or unenforceable for any reason, the remaining provisions hereof shall remain in full force and effect.

g. *Modification*. This Contract may only be modified upon written agreement of the Parties.

h. *Assignment*. Neither this Contract nor any of the rights or obligations of the Parties shall be assigned by either Party without the written consent of the other.

i. *Governmental Immunity*. The Town and its officers, attorneys and employees are relying on, and do not waive or intend to waive by any provision of this Contract, the monetary limitations or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, *et seq.*, as amended, or otherwise available to the Town and its officers, attorneys or employees.

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In witness whereof, this Construction Contract has been executed by the Parties as of the Effective Date.

Town of Superior, Colorado

_____

Mark Lacis, Mayor

Attest:

_____
Shannon Dujardin, Town Clerk

Contractor

By: _____

BID TAB - NORTH POOL

DIVISION NUMBER	DIVISION TITLE	DIVISION DESCRIPTIONS	Growling Bear	McCauley	Dohn	AD Miller	GTC	GH Phipps
BASE BID - SOUTH POOL								
01	GENERAL CONDITIONS		$711,519.00	$572,667	$741,284.00	$556,108.15	$599,109.91	$791,189.00
02	EXISTING CONDITIONS		$84,000.00	$25,565	$55,814.00	$159,467.15	$27,802.85	$111,535.00
03	CONCRETE		$561,198.00	$261,917	$258,790.00	$376,368.10	$244,478.66	$353,972.00
04	MASONRY		$74,040.00	$99,035	$74,072.00	$83,840.00	$68,247.00	$92,543.00
05	STRUCTURAL STEEL		$66,493.00	$68,546	$49,867.00	$73,508.00	$73,508.00	$170,389.00
06	CARPENTRY		$73,745.00	$76,194	$54,856.00	$70,784.00	$58,528.00	$71,894.00
07	THERMAL AND MOISTURE PROTECTION		$127,392.00	$87,222	$83,459.00	$167,034.25	$67,858.50	$124,992.00
08	OPENINGS - DOORS & WINDOWS		$129,643.00	$84,378	$132,517.00	$115,746.00	$100,241.70	$69,557.00
09	FINISHES		$178,689.00	$166,496	$171,418.00	$128,868.00	$166,704.48	$120,855.00
10	SPECIALTIES		$38,605.00	$37,870	$35,145.00	$37,463.00	$37,782.60	$32,322.00
11	EQUIPMENT		$45,450.00	$4,500	$0.00	$0.00	$1,115.00	NA
12	FURNISHINGS		$914.00	$554	$27,960.00	$15,705.68	$4,627.60	$554.00
13	SPECIAL CONSTRUCTION	INCLUDING AQUATICS	$1,896,500.00	$1,846,500	$1,666,500.00	$1,600,000.00	$1,730,258.43	$1,714,085.00
22	PLUMBING	INCLUDING DECK DRAINS	$383,300.00	$372,956	$200,634.00	$238,288.00	$242,342.00	$318,235.00
23	HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)		$106,425.00	$108,425	$112,096.00	$106,425.00	$106,424.50	$108,987.00
26	ELECTRICAL		$410,728.00	$239,255	$209,591.00	$176,168.00	$220,250.20	$203,549.00
27	COMMUNICATIONS		$0.00	$2,500	$0.00	$0.00		By Owner
28	ELECTRONIC SAFETY & SECURITY		$0.00	$0	$0.00	$1,850.00		By Owner
31	EARTHWORK		$142,716.00	$86,548	$189,780.00	$90,759.75	$323,444.54	$163,840.00
32	EXTERIOR IMPROVEMENTS		$82,740.00	$285,437	$270,944.00	$72,122.74	$254,441.61	$39,172.00
33	UTILITIES		$56,746.00	$83,434	$88,361.00	$78,217.85	$115,742.13	$126,058.00
BASE BID TOTAL			**$5,170,843.00**	**$4,509,999.64**	**$4,423,088.00**	**$4,148,723.67**	**$4,442,907.69**	**$4,613,728.00**
OWNER'S PROJECT CONTINGENCY LUMP SUM			**$250,000.00**	**$250,000.00**	**$250,000.00**	**$250,000.00**	**$250,000.00**	**$250,000.00**
BASE BID TOTAL + OWNER'S CONTINGECY			**$5,420,843.00**	**$4,759,999.64**	**$4,673,088.00**	**$4,398,723.67**	**$4,692,907.69**	**$4,863,728.00**
ALTERNATES - LISTED ON COVER SHEET								
01	ADD ALTERNATE	SLAB DRAINAGE IN BATHHOUSE. REFERENCE A150.	$139,978.00	$19,946.00	$11,809.60	$ 15,512.24	$8,235.00	$6,741.00
~~02~~	~~DEDUCT ALTERNATE~~	~~REMOVE SHADE STRUCTURES FROM POOL DECK (PRICE INDIVIDUALLY)~~ **NOT USED**						
03	ADD ALTERNATE	ADD (2) NEW PARK-IT WAVE BIKE RACKS (18 BIKES) WITH PAD AND FOUNDATION ADJACENT TO EXISTING	$26,495.00	$2,938.00	$2,184.60	$ 5,741.22	$3,595.00	$4,069.00
04	ADD ALTERNATE	REPLACE ALL EXISTING SHADES WITH NEW FABRIC SHADES ON METAL FRAMES. SPEC: SKYWAYS SHADE STRUCTURES, SIZE TO MATCH EXISTING.	$807,565.00	$16,343.00	$21,299.30	$ 10,280.92	$30,475.00	$20,788.00
05	ADD ALTERNATE	PROVIDE (1) NEW FABRIC SHADE STRUCTURE WITH METAL FRAME ON THE N SIDE OF THE DECK W/FOUNDATIONS THAT IS 14'X40'. SPEC: SKYWAYS FABRIC SHADE STRUCTURE. COLORS TO MATCH EXISTING SHADES.	$87,110.00	$7,908.00	$85,789.00	$ 66,802.03	$17,567.00	$68,133.00
ALTERNATES TOTAL			**$1,061,148.00**	**$47,135.00**	**$121,082.50**	**$98,336.41**	**$59,872.00**	**$99,731.00**
IF AWARDED THE CONTRACTS FOR BOTH NORTH AND SOUTH POOLS, PROVIDE ANY SAVINGS FOR CONCURRENT CONSTRUCTION:						**$150,000.00**		

SOUTH POOL BID TAB 04292026						
DIV #	**DIVISION TITLE**	**DIVISION DESCRIPTIONS**	**Growling Bear**	**Calahan**	**Dohn**	**McCauley**
BASE BID - SOUTH POOL						
01	GENERAL CONDITIONS		$730,345.00	$796,290.39	$757,681.00	$665,376.00
02	EXISTING CONDITIONS		$29,500.00	$130,944.00	$45,785.00	$37,300.00
03	CONCRETE		$306,088.00	$345,566.00	$55,625.00	$11,080.00
04	MASONRY		$47,000.00	$43,800.00	$28,900.00	$42,573.00
05	STRUCTURAL STEEL		$36,089.00	$38,329.00	$31,163.00	$39,392.00
06	CARPENTRY		$48,150.00	$42,069.00	$9,234.00	$42,826.00
07	THERMAL AND MOISTURE PROTECTION		$44,360.00	$15,609.30	$23,297.00	$14,186.00
08	OPENINGS		$91,123.00	$72,699.45	$100,706.00	$70,067.00
09	FINISHES		$120,667.00	$210,401.73	$141,741.00	$140,458.00
10	SPECIALTIES		$51,440.00	$44,252.90	$47,235.00	$47,988.00
11	EQUIPMENT		$20,450.00	$1,585.00	$0.00	$354.00
12	FURNISHINGS	INCLUDING SHADE STRUCTURES	$0.00	$71,603.00	$244,124.00	$54,070.00
13	SPECIAL CONSTRUCTION	INCLUDING AQUATICS	$2,833,851.00	$3,105,073.25	$2,556,680.00	$2,951,740.00
22	PLUMBING	INCLUDING DECK DRAINS	$337,700.00	$351,529.00	$296,399.00	$362,158.00
23	HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)		$41,225.00	$22,000.00	$26,600.00	$32,926.00
26	ELECTRICAL		$410,845.00	$143,000.00	$208,081.00	$249,422.00
27	COMMUNICATIONS		$0.00	$17,703.21	$0.00	$2,500.00
28	ELECTRONIC SAFETY & SECURITY		$0.00	$17,703.21	$0.00	$0.00
31	EARTHWORK		$118,463.00	$78,245.00	$136,942.00	$97,786.00
32	EXTERIOR IMPROVEMENTS		$77,007.00	$97,244.97	$218,641.00	$305,207.00
33	UTILITIES		$115,887.00	$102,527.00	$174,587.00	$179,591.00
BASE BID TOTAL			**$5,460,190.00**	**$5,748,175.41**	**$5,103,421.00**	**$5,347,000.00**
OWNER'S PROJECT CONTINGENCY LUMP SUM			**$250,000.00**	**$250,000.00**	**$250,000.00**	**$250,000.00**
BASE BID TOTAL + OWNER'S CONTINGECY			**$5,710,190.00**	**$5,998,175.41**	**$5,353,421.00**	**$5,597,000.00**
ALTERNATES - LISTED ON COVER SHEET						
01	DEDUCT ALTERNATE	REMOVE 2 PLAY FEATURES FROM SPLASHPAD, 2 RESTORATIVE JETS & 3 WATER GEYSERS AT CURRENT CHANNEL	$33,300.00	-$48,000.00	-$33,300.00	-$45,000.00
02	ADD ALTERNATE	REPLACE CONCRETE FLOORING IN RESTROOMS WITH NEW SLOPED SLAB (A150)	$25,770.00	$22,900.07	$9,388.50	$25,236.00
03	ADD ALTERNATE	ADD LIGHTNING PROTECTION AT BATHHOUSE	$18,183.00	$23,162.64	$15,551.80	$19,750.00

04	DEDUCT ALTERNATE	REMOVE DECK SHOWERS FROM SCOPE	-$5,300.00	-$4,029.00	-$6,194.00	-$4,029.00
05	DEDUCT ALTERNATE	REMOVE 4 SHADE STRUCTURES FROM POOL DECK (PRICE INDIVIDUALLY)	-$13,200.00	-$50,724.94	-$209,851.00	-$10,827.00
06	DEDUCT ALTERNATE	GUARDS 105 & STORAGE 104 TO REMAIN AS IS	-$1,000.00	-$20,625.00	-$11,926.00	-$7,505.00
07	DEDUCT ALTERNATE	REMOVE UNDERWATER LED LIGHTS FROM POOL SCOPE	-$9,800.00	-$12,000.00	-$9,800.00	-$15,000.00
08	DEDUCT ALTERNATE	REMOVE LIGHT BOLLARDS ON POOL DECK FROM SCOPE	-$1,500.00	-$1,950.00	-$2,863.00	-$2,500.00
09	DEDUCT ALTERNATE	REMOVE ALL WALL TILE IN RESTROOMS	-$32,200.00	-$32,200.00	-$36,967.00	-$3,700.00
10	DEDUCT ALTERNATE	REMOVE TWO TALL WARDROBE CABINETS AT CONTROL DESK	-$1,100.00	-$1,360.00	-$1,982.00	-$2,500.00
11	DEDUCT ALTERNATE	REMOVE NEW STOREFRONT DOORS AT FRONT AND BACK LOBBY	-$25,000.00	-$10,991.78	-$60,320.00	-$200.00
12	DEDUCT ALTERNATE	REPLACE LIFEFLOOR FINISH AT SPLASHPAD WITH FINISHED CONCRETE	-$37,000.00	-$33,000.00	-$29,602.00	-$37,000.00
ALTERNATES TOTAL			**-$48,847.00**	**-$168,818.01**	**-$377,864.70**	**-$83,275.00**

IF AWARDED THE CONTRACTS FOR BOTH NORTH AND SOUTH POOLS, PROVIDE ANY SAVINGS FOR CONCURRENT CONSTRUCTION:				

BID SCHEDULE

DIV #	DIVISION TITLE	DIVISION DESCRIPTIONS	AD Miller	GH Phipps	GTC
BASE BID - SOUTH POOL					
01	GENERAL CONDITIONS		$602,683.96	$807,014.00	$650,745.44
02	EXISTING CONDITIONS		$191,355.00	$127,149.00	$25,564.83
03	CONCRETE		$206,328.10	$192,778.00	$70,701.65
04	MASONRY		$51,300.00	$34,907.00	$42,115.50
05	STRUCTURAL STEEL		$36,467.00	$57,886.00	$29,637.90
06	CARPENTRY		$43,058.00	$35,198.00	$40,844.16
07	THERMAL AND MOISTURE PROTECTION		$29,526.30	$13,179.00	$5,495.30
08	OPENINGS		$62,978.00	$51,794.00	$65,849.20
09	FINISHES		$121,848.50	$108,350.00	$126,764.33
10	SPECIALTIES		$47,551.99	$46,697.00	$49,682.25
11	EQUIPMENT		$0.00	with pool	$0.00
12	FURNISHINGS	INCLUDING SHADE STRUCTURES	$171,851.00	$168,619.00	$62,597.80
13	SPECIAL CONSTRUCTION	INCLUDING AQUATICS	$2,510,000.00	$2,561,737.00	$3,049,882.38
22	PLUMBING	INCLUDING DECK DRAINS	$300,327.00	$317,924.00	$216,190.00
23	HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)		$25,000.00	$32,926.00	$32,926.00
26	ELECTRICAL		$201,922.00	$202,108.00	$198,422.08
27	COMMUNICATIONS		$0.00	By Owner	
28	ELECTRONIC SAFETY & SECURITY		$1,850.00	By Owner	
31	EARTHWORK		$71,810.50	$153,832.00	$218,546.00
32	EXTERIOR IMPROVEMENTS		$76,333.00	$20,215.00	$179,631.10
33	UTILITIES		$147,713.42	$161,816.00	$181,759.08
BASE BID TOTAL			**$4,899,903.77**	**$5,094,129.00**	**$5,247,355.00**
OWNER'S PROJECT CONTINGENCY LUMP SUM			**$250,000.00**	**$250,000.00**	**$250,000.00**
BASE BID TOTAL + OWNER'S CONTINGECY			**$5,149,903.77**	**$5,344,129.00**	**$5,497,355.00**
ALTERNATES - LISTED ON COVER SHEET					

01	DEDUCT ALTERNATE	REMOVE 2 PLAY FEATURES FROM SPLASHPAD, 2 RESTORATIVE JETS & 3 WATER GEYSERS AT CURRENT CHANNEL	-$51,495.86	-$33,300.00	-$13,560.00
02	ADD ALTERNATE	REPLACE CONCRETE FLOORING IN RESTROOMS WITH NEW SLOPED SLAB (A150)	$9,050.56	$8,527.00	$9,091.00
03	ADD ALTERNATE	ADD LIGHTNING PROTECTION AT BATHHOUSE	$21,267.92	$20,038.00	$20,567.00
04	DEDUCT ALTERNATE	REMOVE DECK SHOWERS FROM SCOPE	-$2,676.50	-$1,500.00	-$2,745.00
05	DEDUCT ALTERNATE	REMOVE 4 SHADE STRUCTURES FROM POOL DECK (PRICE INDIVIDUALLY)	-$171,851.00	-$195,080.00	-$57,708.00
06	DEDUCT ALTERNATE	GUARDS 105 & STORAGE 104 TO REMAIN AS IS	-$13,725.09	-$3,439.00	-$10,106.00
07	DEDUCT ALTERNATE	REMOVE UNDERWATER LED LIGHTS FROM POOL SCOPE	-$20,534.11	-$9,800.00	-$14,273.00
08	DEDUCT ALTERNATE	REMOVE LIGHT BOLLARDS ON POOL DECK FROM SCOPE	-$4,733.12	-$1,500.00	-$3,733.00
09	DEDUCT ALTERNATE	REMOVE ALL WALL TILE IN RESTROOMS	-$26,300.00	-$32,200.00	-$53,800.00
10	DEDUCT ALTERNATE	REMOVE TWO TALL WARDROBE CABINETS AT CONTROL DESK	-$2,310.00	-$1,360.00	-$2,176.00
11	DEDUCT ALTERNATE	REMOVE NEW STOREFRONT DOORS AT FRONT AND BACK LOBBY	-$5,972.87	-$10,000.00	-$21,652.00
12	DEDUCT ALTERNATE	REPLACE LIFEFLOOR FINISH AT SPLASHPAD WITH FINISHED CONCRETE	-$31,723.90	-$37,000.00	-$32,543.00
ALTERNATES TOTAL			**-$301,003.97**	**-$296,614.00**	**-$182,638.00**

IF AWARDED THE CONTRACTS FOR BOTH NORTH AND SOUTH POOLS, PROVIDE ANY SAVINGS FOR CONCURRENT CONSTRUCTION:	**-$150,000.00**	**-$50,000.00**	

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

VICINITY MAP

PROJECT SITE





ALTERNATES

- ADD ALTERNATE: SLAB DRAINAGE PLAN (A150)

CONTACT LIST

OWNER:

TOWN OF SUPERIOR, CO
124 EAST COAL CREEK DRIVE
SUPERIOR, CO 80027
303.499.3675

Leslie Clark, Director of PROS
lesliec@superiorcolorado.gov
Jordan Hayes, Project Manager
jordanh@superiorcolorado.gov

ARCHITECT:

BARKER RINKER SEACAT ARCHITECTURE
990 SOUTH BROADWAY, SUITE 222
DENVER, CO 80209
303.455.1366

Jason Ringdahl, Principal in Charge
jasonringdahl@brsarch.com
Mary Schambach, Project Manager
maryschambach@brsarch.com
Caitlin Milligan, Design Manager
caitlinmilligan@brsarch.com

CIVIL:

TAIT
320 NORTH LINCOLN AVE
LOVELAND, CO 80537
970.613.1447

Mark Oberschmidt
moberschmidt@tait.com

LANDSCAPE:

CONFLUENCE
3001 BRIGHTON BLVD, SUITE 2898
DENVER, CO 80216
303.433.7100

Chris Sutterfield
csutterfield@thinkconfluence.com

STRUCTURAL:

JVA
1319 SPRUCE STREET
BOULDER, CO 80302
303.444.1951

Derek M. Pedersen
dpedersen@jvajva.com

MECHANICAL/PLUMBING:

THE BALLARD GROUP, INC.
2525 S WADSWORTH BLVD
#200
LAKEWOOD, CO 80227
303.988.4514

Peter Failla
pfailla@theballardgroup.com
John Blair
jblair@theballardgroup.com

ELECTRICAL:

REESE HACKMAN
9781 SOUTH MERIDIAN BLVD
#220
ENGLEWOOD, CO 80112
720.842.5317

Mark Layfield
mlayfield@reesehackman.com

AQUATICS:

WATER TECHNOLOGY
100 PARK AVE
BEAVER DAM, WI 53916
920.887.7375

Doug Whiteaker
dwhiteaker@watertechnologyinc.com

SHEET LIST

SHEET NO.	SHEET NAME
GENERAL	
G000	ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
G010	CODE ANALYSIS & PLANS
G020	WALL TYPES, ROOF TYPES, FLOOR TYPES & TOP OF WALL DETAILS
CIVIL	
C1	EXISTING CONDITIONS & DEMO PLAN
C-2	GRADING & UTILITY PLAN
C-3	SITE PLAN
C-4	UTILITY DETAILS
C-5	SITE PLAN
LANDSCAPE	
L100	TREE DEMOLITION PLAN
L200	LAYOUT PLAN
L300	DETAILS
ARCHITECTURE	
A021	DEMOLITION PLANS
A031	DEMOLITION RCP
A041	DEMOLITION ELEVATIONS - BATHHOUSE
A042	DEMOLITION ELEVATIONS - BATHHOUSE
A100	ARCHITECTURAL SITE PLAN
A101a	FIRST FLOOR DIMENSION PLAN - BATHHOUSE
A101b	FIRST FLOOR ANNOTATION PLAN - BATHHOUSE
A101c	FIRST FLOOR PLAN - AUX. MECH BLDG
A102	ROOF PLAN - BATHHOUSE
A103	ROOF PLAN - AUX. MECH BLDG
A150	ADD ALTERNATE - NEW SLAB & DRAINAGE PLAN
A211	REFLECTED CEILING PLAN - BATHHOUSE
A212	REFLECTED CEILING PLAN - AUX. MECH BLDG
A301	BUILDING ELEVATIONS - BATHHOUSE
A302	BUILDING ELEVATIONS - BATHHOUSE
A303	BUILDING ELEVATIONS - AUX. MECH BLDG
A304	BUILDING ELEVATIONS - AUX. MECH BLDG
A311	BUILDING SECTIONS - BATHHOUSE
A312	BUILDING SECTIONS - BATHHOUSE
A313	BUILDING SECTIONS - AUX. MECH BLDG
A401	WALL & DETAIL SECTIONS - BATHHOUSE
A402	WALL SECTIONS - AUX. MECH BLDG
A500	STAIR AND GUARDRAIL DETAILS
A600	TOILET ACCESSIBILITY GUIDELINES
A610	INTERIOR ELEVATIONS
A611	ENLARGED PLAN & INTERIOR ELEVATIONS - CONTROL DESK
A612	MILLWORK DETAILS
A613	MILLWORK DETAILS
A700	DOOR SCHEDULES, TYPES & DETAILS
A710	EXTERIOR WINDOW TYPES AND DETAILS
A730	SECTION DETAILS - EXTERIOR ENVELOPE
A750	CEILING DETAILS
A901	GENERAL FINISH NOTES
A902	FINISH LEGEND & DETAILS

SHEET NO.	SHEET NAME
A911	FIRST FLOOR FINISH PLAN - BATHHOUSE
A912	FIRST FLOOR FINISH PLAN - POOL AUX
A950	SIGNAGE PLAN - BATHHOUSE
A951	SIGNAGE PLAN - AUX. MECH BLDG
A970	SIGNAGE DRAWINGS AND DETAILS
STRUCTURAL	
S001	GENERAL NOTES
S002	GENERAL NOTES
S101a	BATH HOUSE FIRST FLOOR/FOUNDATION PLAN
S101b	AUXILIARY MECHANICAL ROOM FOUNDATION PLAN
S102a	BATH HOUSE ROOF FRAMING PLAN
S102b	AUXILIARY MECHANICAL ROOM ROOF FRAMING PLAN
S501	SCHEDULES
S502	TYPICAL DETAILS
S503	TYPICAL DETAILS - WOOD
S510	FOUNDATION DETAILS
S511	SECTIONS & DETAILS
S512	SECTIONS & DETAILS
S520	ROOF FRAMING DETAILS
MECHANICAL	
M000	HVAC COVER SHEET
M021	HVAC DEMOLITION PLAN
M101a	FIRST FLOOR HVAC PLAN - BATHHOUSE
M101c	FIRST FLOOR HVAC PLAN - AUX. MECH BUILDING
M102	HVAC ROOF PLAN - BATHHOUSE
M103	HVAC ROOF PLAN - AUX. MECH BUILDING
M600	HVAC SCHEDULES
M700	HVAC DETAILS
PLUMBING	
P000	PLUMBING COVER SHEET
P021	PLUMBING DEMOLITION PLAN
P090	OVERALL PLUMBING PLAN
P100a	FOUNDATION PLUMBING PLAN - BATHHOUSE
P101a	FIRST FLOOR PLUMBING PLAN - BATHHOUSE
P101c	FIRST FLOOR PLUMBING PLAN - AUX. MECH BUILDING
P600	PLUMBING SCHEDULES
P700	PLUMBING DETAILS
P800	PLUMBING ISOMETRICS
ELECTRICAL	
E001	ELECTRICAL LEGEND AND GENERAL NOTES
E101	SITE ELECTRICAL DEMOLITION PLAN
E102	SITE ELECTRICAL PLAN
E201	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - BATHHOUSE
E301	FIRST FLOOR POWER PLAN- BATHHOUSE
E302	FIRST FLOOR POWER PLAN- AUX. MECH BLDG
E303	ROOF POWER PLAN- AUX. MECH BLDG
E401	FIRST FLOOR LIGHTING PLAN - BATHHOUSE
E402	FIRST FLOOR LIGHTING PLAN - AUX. MECH BLDG

SHEET NO.	SHEET NAME
E601	ELECTRICAL ONE-LINE DIAGRAM
E701	ELECTRICAL SCHEDULES
E702	ELECTRICAL SCHEDULES
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS
AQUATICS	
D100	OVERALL DEMOLITION PLAN
D101	DEMOLITION PHOTOS
PL100	OVERALLL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - EXISTING LAP POOL PLAN
PL111	POOL A - EXISTING LAP POOL DIMENSION PLAN
PL111X	POOL A - EXISTING LAP POOL DIMENSION PLAN
PL112	POOL A - EXISTING LAP POOL DETAILS
PL120	POOL B -WADING POOL PLAN
PL121	POOL B - WADING POOL DIMENSION PLAN
PL122	POOL B - WADING POOL SECTIONS
PL200	STRUCTURAL NOTES AND PLAN(S)
PL201	STRUCTURAL PLAN(S) AND SCHEDULE
PL210	STRUCTURAL GENERAL DETAILS
PL211	STRUCTURAL DETAILS
PL212	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL302	GENERAL PIPING DETAILS
PL310	POOL A PIPING PLAN
PL311	POOL A PADDOCK PLAN
PL320	POOL B PIPING PLAN
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL EQUIPEMNT SCHEDULES
PL402	MECHANICAL DETAILS
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL406	MECHANICAL DETAILS
PL407	MECHANICAL DETAILS
PL510	POOL A - EXISTING LAP POOL MECHANICAL SCHEMATIC
PL511	POOL A - EXISTING LAP POOL ELECTRICAL SCHEMATIC
PL520	POOL B - WADING POOL MECHANICAL SCHEMATIC
PL521	POOL B - WADING POOL ELECTRICAL SCHEMATIC
PL600	PIPE PENETRATIONS



BARKER RINKER SEACAT ARCHITECTURE

01.09.2026 - 100% CONSTRUCTION DOCUMENTS

North Pool Renovation - 2025.009

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ABBREVIATIONS

AB	ANCHOR BOLT	MAT.	MATERIAL	℄	CENTER LINE
AC	AIR CONDITIONING	MANUF	MANUFACTURE	<	ANGLE
ACC	ACCESSIBLE OR ACCESSIBILITY	MAX	MAXIMUM	[	CHANNEL
ACCT	ACCENT	MB	MARKER BOARD	⌀ or "	DIAMETER
ACOUST	ACOUSTICAL	MD	METAL DECK	P L	PLATE
ADA	AMERICANS WITH DISABILITIES ACT	MDF	MEDIUM DENSITY FIBERBOARD	@	AT
ADJ	ADJUSTABLE	MECH	MECHANICAL	X	BY
ADJT	ADJACENT	MH	MANHOLE	&	AND
AFF	ABOVE FINISH FLOOR	MISC	MISCELLANEOUS	#	POUND OR NUMBER
ALUM/AL	ALUMINUM	MIN	MINIMUM	+/-	PLUS OR MINUS
ALT	ALTERNATE	MIR	MIRROR	'	FEET
APC	ACRYLIC POLYMER COATING	MO	MASONRY OPENING	"	INCHES
APPROX	APPROXIMATE	MTD	MOUNTED	( )	QUANTITY
ARCH	ARCHITECT/ARCHITECTURAL	MTG	MEETING		
ASPH	ASPHALT	MTL	METAL		
AUTO	AUTOMATIC				
AWI	AMERICAN WOODWORKING INST.	(N)	NEW		
		N	NORTH		
BD	BOARD	NA	NOT APPLICABLE		
BITUM	BITUMINOUS	NIC	NOT IN CONTRACT		
BLDG	BUILDING	NTS	NOT TO SCALE		
BLK	BLOCK	NO.	NUMBER		
BLKG	BLOCKING	NOM	NOMINAL		
BM	BENCH MARK	NON-COM	NON-COMBUSTIBLE		
BM	BEAM				
B.O.	BOTTOM OF	OC	ON CENTER		
BRG	BEARING	OD	OUTSIDE DIAMETER		
		OFC/OFF	OFFICE		
CAB	CABINET	OH	OVER HEAD		
CHNLS	CHANNELS	OPG	OPENING		
CJ	CONTROL JOINT	OPP	OPPOSITE		
CL	CENTER LINE	OV	OVER		
CLG	CEILING	OFCI	OWNER FURNISHED		
CLR	CLEAR		CONTRACTOR INSTALLED		
CMT	CERAMIC MOSAIC TILE	OFOI	OWNER FURNISHED		
CMT-B	CERAMIC MOSAIC TILE BASE		OWNER INSTALLED		
CMU	CONCRETE MASONRY UNIT				
COL	COLUMN	PC	PRECAST CONCRETE		
CONC	CONCRETE	PL	PROPERTY LINE		
CONT	CONTINUOUS	PL	PLATE		
CONSTR	CONSTRUCTION	PLG	PLUMBING		
COORD	COORDINATE	PLAM	PLASTIC LAMINATE		
CPT	CARPET	PLYWD	PLYWOOD		
CSWK	CASEWORK	PNL	PANEL		
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	PR	PAIR		
		PREFAB	PREFABRICATED		
CUH	CABINET UNIT HEATER	POR	PORCELAIN TILE		
CWT	CERAMIC WALL TILE	PT	PAINT		
		PTN	PARTITION		
DBL	DOUBLE				
DEMO	DEMOLISH, DEMOLITION	R	RISER		
DEPT	DEPARTMENT	RAD	RADIUS		
DF	DRINKING FOUNTAIN	RB	RUBBER BASE		
DIA	DIAMETER	RCP	REFLECTED CEILING PLAN		
DIM.	DIMENSION	RD	ROOF DRAIN		
DISP	DISPENSER	RE:	REFER/REFERENCE		
DN	DOWN	REF	REFRIGERATOR		
DR	DOOR	REINF	REINFORCED		
DS	DOWN SPOUT	REQ	REQUIRED		
DTL	DETAIL	RESIL	RESILIENT		
DWG	DRAWING	REV	REVISION		
		RFG	ROOFING		
(E)	EXISTING	RM	ROOM		
EA	EACH	RO	ROUGH OPENING		
EJ	EXPANSION JOINT	ROW	RIGHT OF WAY		
ELEV/EL	ELEVATION	RTU	ROOF TOP UNIT		
ELEV	ELEVATOR				
ELEC	ELECTRICAL	SAT	SUSPENDED ACOUSTICAL TILE		
ENCL	ENCLOSURE	SC	SOLID CORE		
ENGR	ENGINEERED	SCHED	SCHEDULE		
EQ	EQUAL	S-CONC	SEALED CONCRETE		
EQUIP	EQUIPMENT	SEAL	SEALER		
EQUIV	EQUIVALENT	SECT	SECTION		
EX	EXPOSED	SF	SQUARE FOOT/FEET		
EXH	EXHAUST	SHT	SHEET		
EXP	EXPANSION	SHWR	SHOWER		
EXP-JT	EXPANSION JOINT	SIM	SIMILAR		
EXT	EXTERIOR	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION		
EW	EACH WAY				
EWC	ELECTRIC WATER COOLER				
		SPEC	SPECIFICATIONS		
FACT-F	FACTORY FINISH	SQ	SQUARE		
FBGL	FIBERGLASS	SS	SOLID SURFACE		
FD	FLOOR DRAIN	S-STL	STAINLESS STEEL		
FDN	FOUNDATION	ST	STAIN		
FE	FIRE EXTINGUISHER	STA	STATION		
FEC	FIRE EXTINGUISHER CABINET	STC	SOUND TRANSMISSION CLASS		
FF	FINISH FLOOR	STD	STANDARD		
FF&E	FURNITURE, FIXTURES & EQUIPMENT	STHG	SHEATHING		
FG	FINISH GRADE	STL	STEEL		
FIN	FINISH(ED)	SUPPL	SUPPLIED		
FIN-FLR	FINISH FLOOR	SUSP	SUSPENDED		
FIXT	FIXTURE	STOR	STORAGE		
FLD	FIELD	STR	STRINGER		
FLR	FLOOR	STRL	STRUCTURAL		
FLRG	FLOORING	STRUCT	STRUCTURE, STRUCTURAL		
FO	FACE OF	SYM	SYMMETRICAL		
FOS	FACE OF STUD	SYST	SYSTEM		
FR	FIRE RESISTIVE				
FR	FRAME	T	TREAD (IN PLAN)		
FRMG	FRAMING	T	TEMPERED (ON WINDOW)		
FRP	FIBER REINFORCED PANEL	TB	TACK BOARD		
FT	FOOT/FEET	TBB	TILE BACKER BOARD		
FTG	FOOTING	TBD	TO BE DETERMINED		
FURN	FURNITURE	T&B	TOP & BOTTOM		
FUT	FUTURE	TC	TOP OF CURB		
		TEL	TELEPHONE		
GA	GAUGE	TEMP	TEMPERED		
GAL	GALVANIZED	THK	THICKNESS		
GB	GRAB BAR	THLD	THRESHOLD		
GC	GENERAL CONTRACTOR	T.O.	TOP OF		
GHM	GALVANIZED HOLLOW METAL	T.O. B	TOP OF BEAM		
GL	GLASS	T.O. C	TOP OF CONCRETE		
GR	GRADE	T.O. F	TOP OF FLR/FOOTING		
GYP BD/GWB	GYPSUM BOARD	T.O. M	TOP OF MASONRY		
		T.O. S	TOP OF SLAB		
HB	HOSE BIB	T.O. STL	TOP OF STEEL		
HC	HOLLOW CORE	TS	TUBE STEEL		
HDBD	HARDBOARD	TV	TELEVISION		
HDR	HEADER	TYP	TYPICAL		
HDWR	HARDWARE	TYPE 'X'	FIRE RATED GYPSUM BOARD		
HM	HOLLOW METAL				
HORZ/H	HORIZONTAL	UBC	UNIFORM BUILDING CODE		
HPC	HIGH PERFORMANCE COATING	UL	UNDERWRITER'S LABORATORY		
HT/H	HEIGHT	UNFIN	UNFINISHED		
HTR	HEATER	UON	UNLESS OTHERWISE NOTED		
HVAC	HEATING, VENTING & AIR CONDITIONING				
		VAR	VARIES		
IBC	INTERNATIONAL BUILDING CODE	VNR	VENEER		
ID	INSIDE DIAMETER	VER/V	VERTICAL		
INDIC	INDICATOR	VEST	VESTIBULE		
INSUL	INSULATION	VIF	VERIFY IN FIELD		
INT	INTERIOR	VOC	VOLATILE ORGANIC COMPOUND		
		W/	WITH		
JAN	JANITOR	WC	WATER CLOSET		
JT	JOINT	WD	WOOD		
JST	JOIST	WDW	WINDOW		
		WF	WIDE FLANGE		
KD	KNOCK DOWN	WH	WATER HEATER		
KIT	KITCHEN	W/O	WITHOUT		
		WP	WATERPROOF		
LAM	LAMINATE	WR	WATER RESISTANT		
LAV	LAVATORY	WT	WEIGHT		
LF	LINEAR FOOT	WWF	WELDED WIRE FABRIC		
LIN	LINOLEUM				
LT	LIGHT				

REFER TO CONSTRUCTION SPECIFICATION INSTITUTE, UNIFORM DRAWING SYSTEM AND TO PROJECT SPECIFICATIONS FOR REFERENCE STANDARDS & ADDITIONAL ABBREVIATIONS

SYMBOLS LEGEND

0" / XXXX — ELEVATION INDICATOR

1i — WINDOW INDICATOR

T — TEMPERED GLAZING

1i 1i — GLAZING LOCATION / GLAZING TYPE

VESTIBULE

101 — ROOM DESIGNATION

W5 — WALL TYPE INDICATOR

R12 — ROOF TYPE INDICATOR

F1 — FLOOR TYPE INDICATOR

01 — DOOR INDICATOR

ADO — AUTOMATIC DOOR OPENER ACTUATOR

1i — ACCESSORY INDICATOR

PAINT FINISH INDICATOR, SEE A900

X / X — FLOOR FINISH INDICATOR, SEE A900

FINISH INDICATOR, SEE A900

VCT — CPT — FLOOR MATERIAL TRANSITION INDIC.

CUBBIES; RE: INT ELEVS

CORNER GUARD

TB — MB — MARKER OR TACKBOARD

RECESSED FLOOR SLAB

LEVEL CHANGE INDICATOR

DETAIL NUMBER ON SHEET / DRAWING TITLE / DRAWING SCALE / SHEET WHERE LOCATED — 1 / A200 — PLAN — 1 1/2" = 1'-0" — DRAWING TITLE

DETAIL NUMBER ON SHEET / SHEET WHERE LOCATED — 1 / A101 — SIM — SECTION INDICATOR

1 / A / AXXX / 1 2 3 — INTERIOR ELEVATION INDICATOR

DETAIL NUMBER ON SHEET / SHEET WHERE LOCATED — 1 / A101 — SIM — EXTERIOR ELEVATION INDICATOR

DETAIL NUMBER ON SHEET / SHEET WHERE LOCATED — 1 / A200 — DETAIL REFERENCE

a / ASI — REVISION INDICATOR

F.E.C. SURFACE — SURFACE MOUNTED FIRE EXTINGUISHER CABINET

F.E.C. SEMI-R — SEMI-RECESSED FIRE EXTINGUISHER CABINET

MATERIALS LEGEND

- EARTH/COMPACT FILL
- GRAVEL/POROUS FILL
- CONCRETE (PRECAST OR CAST IN PLACE)
- SAND/MORTAR/PLASTER/GROUT
- CONCRETE BLOCK
- STEEL
- ALUMINUM
- CONTINUOUS WOOD BLOCKING
- NON-CONTINUOUS WOOD BLOCKING
- WOOD FINISH
- PLYWOOD
- PARTICLE BOARD
- GYPSUM BOARD
- GLASS
- BATT/LOOSE FILL INSULATION
- RIGID INSULATION
- BRICK/STONE VENEER
- SOLID SURFACE

GENERAL NOTES

CONSTRUCTION NOTES

1. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS (TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS). DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESS FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.

2. PROVIDE SOLID BLOCKING WITHIN PARTITIONS AT ALL LOCATIONS WHERE ITEMS WILL BE MOUNTED ON PARTITIONS INCLUDING, BUT NOT LIMITED TO: ACCESSORIES, CASEWORK TRIM, FLASHING, WALL MOUNTED EQUIPMENT, TACK/BULLETIN/MARKER BOARDS, ETC.

3. PROVIDE 24" X 24" ACCESS PANELS IN PARTITIONS WHERE REQUIRED FOR MECHANICAL EQUIPMENT EXCEPT WHERE SIZES ARE OTHERWISE NOTED.

4. PROVIDE GYPSUM BOARD CONTROL JOINTS IN PARTITIONS AND CEILINGS AT 30'-0" MAX SPACING. COORDINATE TO MEET FIRE RESISTIVE RATINGS OF THE ASSEMBLY, FIRESTOP JOINTS AT RATED PARTITIONS. SUB-CONTRACTOR MUST PROVIDE A SUBMITTAL FOR JOINT MATERIAL.

5. CAULK ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND WHERE THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

6. FIREBLOCK ALL CONCEALED SPACES, SOFFITS, SHAFTS, CHASES AND CEILING AREAS PER REQUIREMENTS OF THE IBC AND THE LOCAL JURISDICTION'S AMENDMENTS.

7. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS BOTH DESCRIBE VARIOUS FLOOR SLAB SLOPE REQUIREMENTS, RECESSES, AND EDGE CONDITIONS. USE BOTH SETS OF DRAWINGS WHEN INSTALLING THE FLOOR SLAB.

8. ASSUME LEVEL 4 FINISH FOR ALL GYPSUM BOARD PARTITIONS, UNLESS NOTED OTHERWISE.

9. IT IS THE INTENT OF THE DESIGN THAT ALL METAL STUD PARTITIONS BE OF SUFFICIENT WIDTH TO ADEQUATELY ENCLOSE PIPING, CONDUITS, AND RECESSED EQUIPMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THIS INTENT.

10. ALL VERTICAL AND HORIZONTAL PIPES, CONDUITS, DUCTS, ETC. IN FINISHED ROOMS OR AREAS THROUGHOUT THE BUILDING SHALL BE FURRED IN TO MATCH THE ROOM FINISH, UNLESS OTHERWISE NOTED.

11. WHERE MECHANICAL WORK PENETRATES ANY COMPONENT OF A FIRE-RATED ASSEMBLY, PROVIDE THE APPROPRIATE FIRE AND/OR SMOKE DAMPERS. IF IT IS NOT CLEAR WHETHER DUCTWORK PENETRATES A PORTION OF THE RATED ASSEMBLY, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING. SEAL AROUND ALL PENETRATIONS THROUGH PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.

DRAWINGS AND DIMENSIONS

1. DO NOT SCALE THE DRAWINGS.

2. ALL DIMENSIONS ON PLANS ARE TO FACE OF BLOCK OR TO FACE OF STUD UNLESS NOTED OTHERWISE.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.

6. SEE GENERAL NOTES ON ALL 'A' SERIES DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.

7. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

8. CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.

9. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

10. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING FIXTURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE CONSTRUCTION REQUIREMENTS.

11. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE EXPOSED DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

12. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES INSTALLING THEIR RESPECTIVE EQUIPMENT IN THE CEILING PLENUMS. MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS ALL SHARE THIS SAME SPACE. EACH SUB CONTRACTOR IS TO REVIEW THE REQUIREMENTS OF THEIR WORK WITH THE AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THESE SPACES AND MUST NOT ASSUME THAT THEIR INSTALLATION HAS BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES.

GENERAL REQUIREMENTS

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.

2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.

4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.

5. MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, AND SUCH.

6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

8 ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.

9. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.

10. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODE & LOCAL AMENDMENTS. REFER TO CODE ANALYSIS AND CODE PLANS.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES.

12. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL CONDUCT A WALK THROUGH INSPECTION WITH THE OWNER TO DETERMINE IN WRITING THE CONDITION OF THE WORK ALREADY IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EQUIPMENT PRESENTLY IN PLACE THAT IS DAMAGED DURING CONSTRUCTION.

13. CONTRACTOR SHALL SUBMIT CONFIRMATION OF ORDERED MATERIALS OR ITEMS NECESSARY TO COMPLETE THE PROJECT WITH PROJECTED DELIVERY DATE GREATER THAN FOUR WEEKS.

14. ALL SUB-CONTRACTORS SHALL SUBMIT SHOP DRAWINGS AS REQUIRED FOR ARCHITECTS APPROVAL PRIOR TO COMMENCING ANY WORK.

15. SEAL AROUND ALL PENETRATIONS THROUGH EXISTING AND PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.

PARTITION NOTES

1. PROVIDE AND INSTALL ALL BLOCKING STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.

2. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.

3. PROVIDE ACOUSTIC (SOUND) SEALANT AT NON-RATED WALLS.

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO — KEITH HAYES — 203023 — LICENSED ARCHITECT — 1/24/2026

Project Number:	2025.009
Issue:	100% CONSTRUCTION DOCUMENTS
Date:	01.09.2026
Drawn By:	JG
Checked By:	CM

Revisions:

Description	Date:

Sheet title:

ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

G000

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1/24/2026 2:39:14 PM Autodesk Docs://Superior North Pool Renovation/SNP_ARCH.rvt

2018 INTERNATIONAL SWIMMING POOL AND SPA CODE

CHAPTER 403 - Bather Load

ISP&SC: Section 403.1 Maximum Bather Load
The maximum bather load of Class B and Class C pools shall be in accordance with Table 403.1.

ISP&SC: Table 403.1 Maximum Bather Load
Pools with deck area at least equal to water surface area
Shallow Instructional or Wading Areas = 15 sq. ft. per user

Combined Pools = 5,695 sf / 15 sq ft per user = 380 users

2018 INTERNATIONAL BUILDING CODE

CHAPTER 1004 - Occupant Load

IBC: Table 1004.5 Maximum Floor Area Allowances per Occupant
Skating rinks, swimming pools
Pool = 50 gross
Decks = 15 gross

Existing Pool Deck = 10,435 sf / 15 occ. load factor = 696 occupants
Pool: 5,695 sf / 50 occ. load factor = 114 occupants
Total: 810 occupants

810 Pool & Pool Deck Occupants (additional 4 occupants exiting from both buildings). **814**
Occupants used in egress sizing below.

OCCUPANT LOAD CALCULATIONS

Room Number	Room Name	Area	Occupant Load Factor (per Table 1004.1.2)	Load	Function of Space (per Table 1004.1.2)
101	LOBBY	167 SF	150	2	BUSINESS
102	CONTROL	96 SF	150	1	BUSINESS
103	MENS	221 SF	0		RESTROOM
104	FAMILY CHANGING	95 SF	0		RESTROOM
105	MECH/ELEC	88 SF	300	1	ACCESSORY STORAGE AREAS
106	ALL SEASON RR	65 SF	0		RESTROOM
107	WOMENS	280 SF	0		RESTROOM
108	GUARDS/FIRST AID	222 SF	150	2	BUSINESS
120	STO	75 SF	300	1	ACCESSORY STORAGE AREAS
121	CHEM	75 SF	300	1	ACCESSORY STORAGE AREAS
122	CHEM	69 SF	300	1	ACCESSORY STORAGE AREAS
123	TEAM STO	182 SF	300	1	ACCESSORY STORAGE AREAS
124	POOL MECH	288 SF	300	1	ACCESSORY STORAGE AREAS
125	PUMP PIT	290 SF	300	1	ACCESSORY STORAGE AREAS
				12	

Superior North Pool Calculations

CODE REVIEW — **IBC PLUMBING FIXTURE REQUIREMENTS**

Review Based on: ISP&SC 2018: Section 609.2.1 (Water area less than 7500 square feet)
IBC 2018/Table 2902.1, Exception f

Based on Group A Overall Occupancy

Occupants	People (Buildings)	WCs/Urinal			Lavatory*		Showers		Drinking Fountains		Mop/Service Sinks		Acc./Public Sinks	
		req.	min. req. WC	proj.	req.	proj.	req.	proj.	req.	proj.	req.	proj.	req.	proj.
Male	6	1	1	2	1.0	2	not req.	1	1.0	1	0.5	1		
Urinals			0	2										
Unisex (counted towards Male req.)				1		1								
Subtotal Men			1	5.0		3.0		1.0		1.0		1.0		
Female	6	1	1	4	1.0	3	not req.	1	1.0		0.5			
Unisex (counted towards Women req.)														
Subtotal Women			1	4.0		3.0		1.0		0.0		0.0		
Total	12		2.0	9.0	2.0	6		2	1.0	1		1		

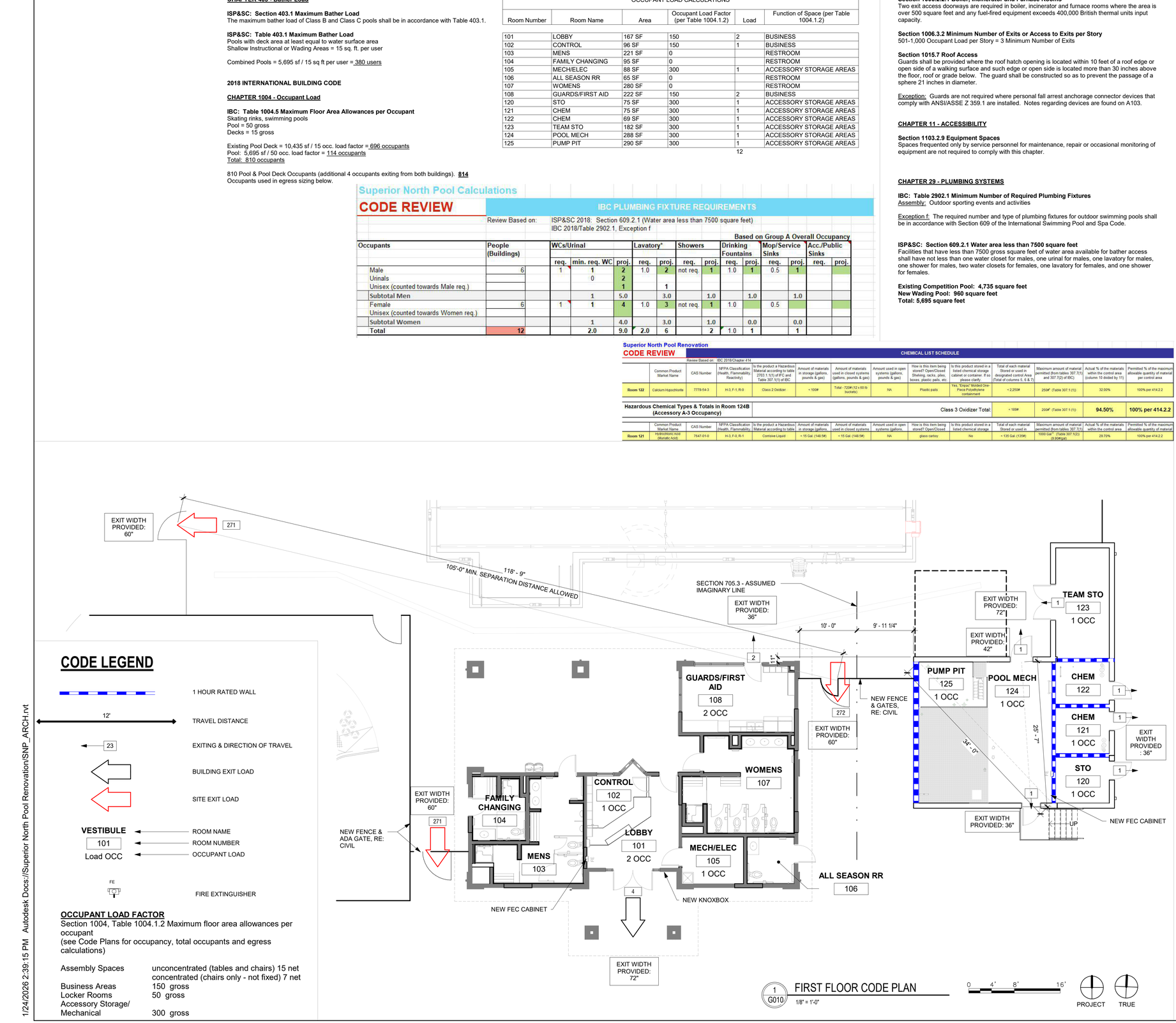
Superior North Pool Renovation

CODE REVIEW — **CHEMICAL LIST SCHEDULE**

Review Based on: IBC 2018/Chapter 414

	Common Product Market Name	CAS Number	NFPA Classification (Health, Flammability, Reactivity)	Is the product a Hazardous Material according to table 2703.1.1(1) of IFC and Table 307.1(1) of IBC	Amount of materials in storage (gallons, pounds & gas)	Amount of materials used in closed systems (gallons, pounds & gas)	Amount used in open systems (gallons, pounds & gas)	How is this item being stored? Open/Closed Shelving, racks, piles, boxes, plastic pails, etc.	Is this product stored in a listed chemical storage cabinet or container. If so please clarify.	Total of each material Stored or used in designated control Area (Total of columns 5, 6 & 7)	Maximum amount of material permitted (from tables 307.7(1) and 307.7(2) of IBC)	Actual % of the materials within the control area (column 10 divided by 11)	Permitted % of the maximum allowable quantity of material per control area
Room 122	Calcium Hypochlorite	7778-54-3	H-3, F-1, R-0	Class 2 Oxidizer	< 100#	Total - 720# (12 x 60 lb buckets)	NA	Plastic pails	Yes, "Enpac" Molded One-Piece Polyethelene containment	< 2,250#	250#` (Table 307.1 (1))	32.00%	100% per 414.2.2
Hazardous Chemical Types & Totals in Room 124B (Accessory A-3 Occupancy)									Class 3 Oxidizer Total:	< 100#	200#` (Table 307.1 (1))	**94.50%**	**100% per 414.2.2**

	Common Product Market Name	CAS Number	NFPA Classification (Health, Flammability	Is the product a Hazardous Material according to table	Amount of materials in storage (gallons,	Amount of materials used in closed systems	Amount used in open systems (gallons,	How is this item being stored? Open/Closed	Is this product stored in a listed chemical storage	Total of each material Stored or used in	Maximum amount of material permitted (from tables 307.7(1)	Actual % of the materials within the control area	Permitted % of the maximum allowable quantity of material
Room 121	Hydrochloric Acid (Muriatic Acid)	7647-01-0	H-3, F-0, R-1	Corrisive Liquid	< 15 Gal. (148.5#)	< 15 Gal. (148.5#)	NA	glass carboy	No	< 135 Gal. (1335#)	1000 Gal`` (Table 307.1(2)) (9 916#'gal)	29.70%	100% per 414.2.2



CODE LEGEND

- 1 HOUR RATED WALL
- 12' — TRAVEL DISTANCE
- 23 — EXITING & DIRECTION OF TRAVEL
- BUILDING EXIT LOAD
- SITE EXIT LOAD
- VESTIBULE / 101 / Load OCC — ROOM NAME / ROOM NUMBER / OCCUPANT LOAD
- FE — FIRE EXTINGUISHER

OCCUPANT LOAD FACTOR
Section 1004, Table 1004.1.2 Maximum floor area allowances per occupant
(see Code Plans for occupancy, total occupants and egress calculations)

Assembly Spaces	unconcentrated (tables and chairs) 15 net concentrated (chairs only - not fixed) 7 net
Business Areas	150 gross
Locker Rooms	50 gross
Accessory Storage/ Mechanical	300 gross

1 G010 FIRST FLOOR CODE PLAN
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

CHAPTER 10 - MEANS OF EGRESS

Section 1006.2.2.1 Boiler, Incinerator and Furnace Rooms
Two exit access doorways are required in boiler, incinerator and furnace rooms where the area is over 500 square feet and any fuel-fired equipment exceeds 400,000 British thermal units input capacity.

Section 1006.3.2 Minimum Number of Exits or Access to Exits per Story
501-1,000 Occupant Load per Story = 3 Minimum Number of Exits

Section 1015.7 Roof Access
Guards shall be provided where the roof hatch opening is located within 10 feet of a roof edge or open side of a walking surface and such edge or open side is located more than 30 inches above the floor, roof or grade below. The guard shall be constructed so as to prevent the passage of a sphere 21 inches in diameter.

Exception: Guards are not required where personal fall arrest anchorage connector devices that comply with ANSI/ASSE Z 359.1 are installed. Notes regarding devices are found on A103.

CHAPTER 11 - ACCESSIBILITY

Section 1103.2.9 Equipment Spaces
Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment are not required to comply with this chapter.

CHAPTER 29 - PLUMBING SYSTEMS

IBC: Table 2902.1 Minimum Number of Required Plumbing Fixtures
Assembly: Outdoor sporting events and activities

Exception f: The required number and type of plumbing fixtures for outdoor swimming pools shall be in accordance with Section 609 of the International Swimming Pool and Spa Code.

ISP&SC: Section 609.2.1 Water area less than 7500 square feet
Facilities that have less than 7500 gross square feet of water area available for bather access shall have not less than one water closet for males, one urinal for males, one lavatory for males, one shower for males, two water closets for females, one lavatory for females, and one shower for females.

Existing Competition Pool: 4,735 square feet
New Wading Pool: 960 square feet
Total: 5,695 square feet

PROJECT NAME
SCOPE OF WORK DESCRIPTION

Project Description: The existing competition pool and bathhouse for the Superior North Pool are to be repaired and/or rebuilt. A new wading pool is to replace the existing kid pool, and a new pool mechanical building will be built to house the pool equipment needed to run the pool facilities. The existing bathhouse interior will be demolished, renovated and laid out to include new changing facilities, restrooms, lobby and reception area, a lifeguard office, and storage.

Project Location: 1650 S Indiana St, Superior, CO 80027
Date: January 9, 2026
By: Caitlin Milligan, BRS Architecture

CODES OF JURISDICTION:
- 2018 International Building Code
- 2023 National Electric Code
- 2018 International Plumbing Code
- 2018 International Mechanical Code
- 2018 International Fire/Life Safety Code
- 2021 International Energy Conservation Code
- 2018 International Fuel & Gas Code
- 2018 International Swimming Pool and Spa Code

PROJECT DATA SUMMARY

Construction Type: VB - Outdoor Pool (non separated)

Number of Stories: 1

Occupancy Types: B, S-1

Gross Square Feet:
Bathhouse: 1,522 GSF
Aux. Mechanical Building - 1,154 GSF
Total - 2,676

IECC Compliance Method: Prescriptive

Automatic Sprinkler Systems: No

Fire Alarm & Detection: No

CITY OF DENVER ZONING CODE

Zoning: PD - Planned Development (Boulder County), XSU (Town of Superior)

Setbacks: South Indiana Street - 10' Utility Easement
Rock Creek Parkway - 25' Irrigation & Utility Easement
Existing Parking Lot - 30' Utility Easement

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

B Business
S-1 Storage

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

Hazardous Materials - Calcium Hypochlorite Tabs, see list to left.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

Allowable Building Height: 40' (B-occupancy, non-sprinklered, Type VB)

Allowable Number of Stories: 2 (B-occupancy, non-sprinklered, Type VB)

Allowable Building Area (At):
B Occupancy (NS): 9,000 GSF per floor

Table 509.1 Incidental Uses
Furnace room where any piece of equipment is over 400,000 Btu per hour input = 1 hour separation or provide automatic sprinkler system.

Section 509.4.1 Separation
Where Table 509 specifies a fire-resistance-rated separtion, the incidental uses shall be separated from the remainder of the building by a fire barrier constructed in accordance with Section 707.

CHAPTER 6 - TYPES OF CONSTRUCTION

Table 601 - Type VB
Primary structural frame: 0 hr
Bearing Walls -Exterior: 0 hr
Bearing walls - Interior: 0 hr
Exterior Nonbearing Walls: see Table 602 values below.
Interior Nonbearing Walls – 0 hr
Floor Construction and associated secondary members: 0 hr
Roof Construction and associated secondary members: 0 hr

Table 602 - Type VB
Fire Separation Distance:
X ≥ 30 = 0 hr
10 ≤ X < 30 = **0 hr**
5 ≤ X < 10 = **1 hr**
X < 5 = **1 hr**

CHAPTER 7 – FIRE AND SMOKE PROTECTION FEATURES

Exterior Wall Projections – Table 705.2
0 to less than 2 = Projections not permitted
2 to less than 3 = 24"
3 to less than 5 = 24" plus 8" for every foot of FSD beyond 3' or fraction thereof
5 or greater = 40"

Section 705.3 Buildings on the same lot
Where a new building is to be erected on the same lot as an existing building, the location of the assumed imaginary line with relation to the existing building shall be such that the exterior wall and opening protection of the existing building meet the criteria as set forth in Sections 705.5 and 705.8

Section 705.5 Fire Resistance Ratings
Exterior walls shall be fire-resistance rated in accordance with Tables 601 & 602 and this section. The required fire-resistance rating of exterior walls with a fire separation distance of greater than 10 feet shall be rated for exposure to fire from the inside. The required fire-resistance rating of exterior walls with a fire separation distance of less than or equal to 10 feet shall be rated for exposure to fire from both sides.

CHAPTER 8 - INTERIOR FINISHES

Section 803 Wall & Ceiling Finishes
All interior finish materials meet the minimum required fire performance and smoke development rating per section 803.

Section 803.1.1 Interior Wall and Ceiling Finish Materials
Interior wall and ceiling finish materials shall be classified in accordance with ASTM E 84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke development indexes.

Class A - Flame Spread Index 0-25; Smoke-Developed index 0-450
Class B - Flame Spread Index 26-75; Smoke-Developed index 0-450
Class C - Flame Spread Index 76-200; Smoke-Developed index 0-450

CHAPTER 9 - FIRE PROTECTION

Section 906 Portable Fire Extinguishers Where Required.
Re: Code Plans for locations.

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO — KEITH HAYES — 29023 — LICENSED ARCHITECT

Project Number:	2025.009
Issue:	100% CONSTRUCTION DOCUMENTS
Date:	01.09.2026
Drawn By:	AB
Checked By:	CD

Revisions:
Description Date:

Sheet title:
CODE ANALYSIS & PLANS

G010

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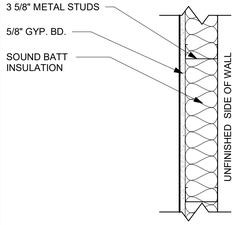
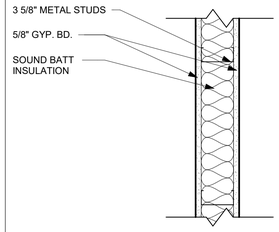
WALL TYPES

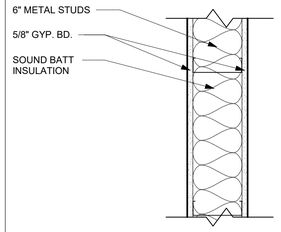
W1040 3 5/8" MTL STUD FURRING WALL



W1041 3 5/8" MTL STUD WALL w/ INSULATION

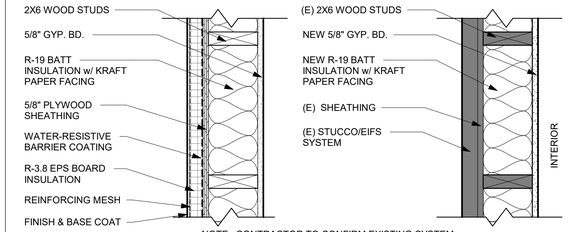


W1061 6" MTL STUD WALL w/ INSULATION



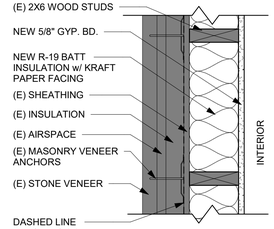
W1064 WOOD STUD WALL W/ EIFS SYSTEM (TO MATCH EXISTING)

E1 (E) EXTERIOR WOOD STUD WALL W/ STUCCO

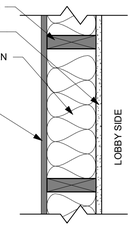


NOTE: CONTRACTOR TO CONFIRM EXISTING SYSTEM INCLUDING OVERALL THICKNESS & COORDINATE NEW SYSTEM TO MATCH

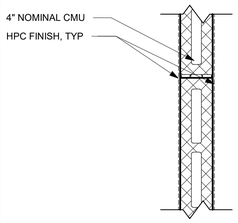
E2 (E) WOOD STUD WALL W/ STONE VENEER



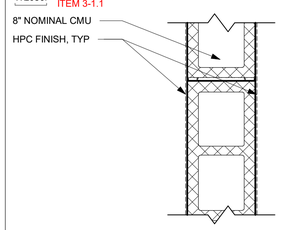
E3 (E) 2X6 WOOD STUD WALL (INTERIOR)



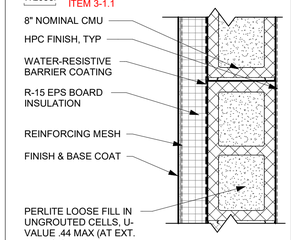
W2040 4" MASONRY WALL



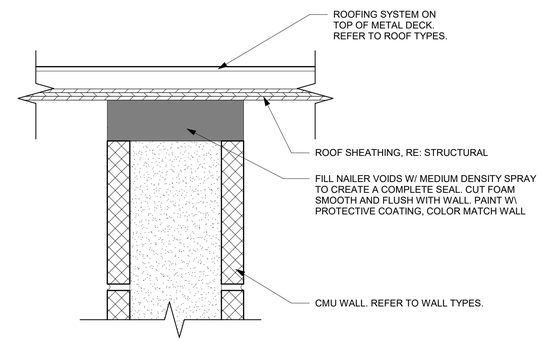
W2080 8" MASONRY WALL
W2080r 1-HR RATED ASSEMBLY (IBC TABLE 721.1(2) ITEM 3-1.1



W2088 8" MASONRY WALL w/ STUCCO
W2088r 1-HR RATED ASSEMBLY (IBC TABLE 721.1(2) ITEM 3-1.1



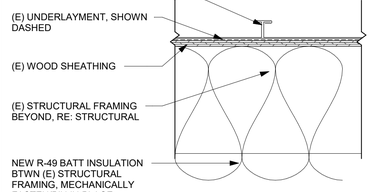
GENERAL WALL TYPE NOTES:
1. WALL SECTIONS ARE CUT IN PLAN VIEW.
2. ALL CMU TO RECEIVE CEMENTITIOUS BLOCK FILLER PRIOR TO PAINTING.
3. ALL INTERIOR EXPOSED CMU TO HAVE BULL NOSED CORNERS.
4. PROVIDE TILE BACKER BOARD AT TOILET ROOMS, SHOWERS, LOCKER AREAS & WHERE REQUIRED BY SPECIFICATION IN LIEU OF GYP. BD.
5. EXTEND FIRE RATED WALLS, INCLUDING SHEATHING, TO UNDERSIDE OF STRUCTURE ABOVE.
6. PROVIDE TYPE 'X' GYPSUM BOARD AT FIRE RATED WALLS.
7. SOUND SEAL HEAD, SILL AND ALL PENETRATIONS IN ACOUSTICAL WALLS WITH STC RATINGS OF 45 AND MORE.
8. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL MASONRY & CONCRETE INFORMATION.



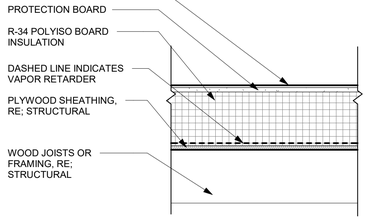
3 G020 CMU HEAD @ POOL MECHANICAL BUILDING
3" = 1'-0"

ROOF TYPES

R1 (E) STANDING SEAM METAL ROOFING OVER WOOD FRAMING



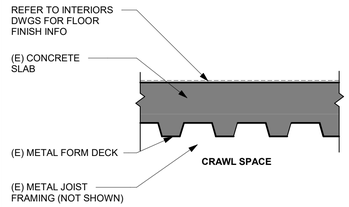
R3 TPO ROOFING OVER PLYWOOD SHEATHING



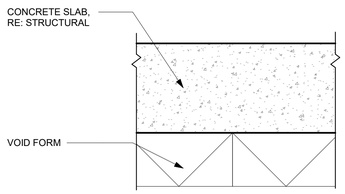
FLOOR TYPES

F2 (E) CONCRETE SLAB OVER CRAWL SPACE - BATHHOUSE

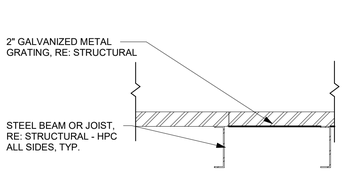
NEW FLOOR SYSTEM INFILL TO BE SLAB ON GRADE, RE: FLOOR PLANS FOR LOCATIONS

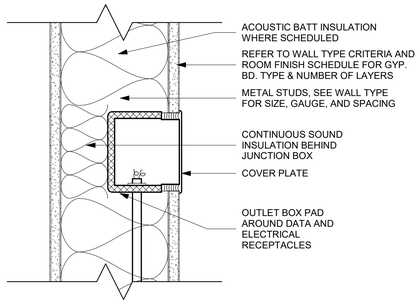


F3 CONCRETE SLAB OVER CRAWL SPACE - POOL MECHANICAL BUILDING



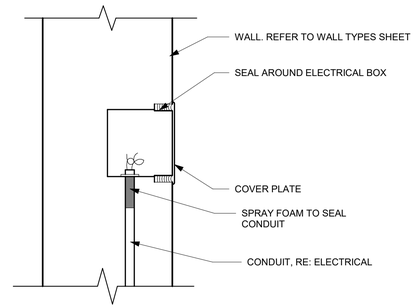
F6 GALV METAL GRATING - POOL MECHANICAL BUILDING





(REQUIRED AT ALL ACOUSTICAL PARTITIONS)

2 G020 SOUND ISOLATION @ WALL RECEPTACLES
3" = 1'-0"



1 G020 ELECTRICAL RECEPTACLE @ POOL MECHANICAL BLDG
3" = 1'-0"

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
29023
LICENSED ARCHITECT
1/24/2026

Project Number:	2025.009
Issue:	100% CONSTRUCTION DOCUMENTS
Date:	01.09.2026
Drawn By:	AB
Checked By:	CD

Revisions:

Description	Date:

Sheet title:

WALL TYPES, ROOF TYPES, FLOOR TYPES & TOP OF WALL DETAILS

G020

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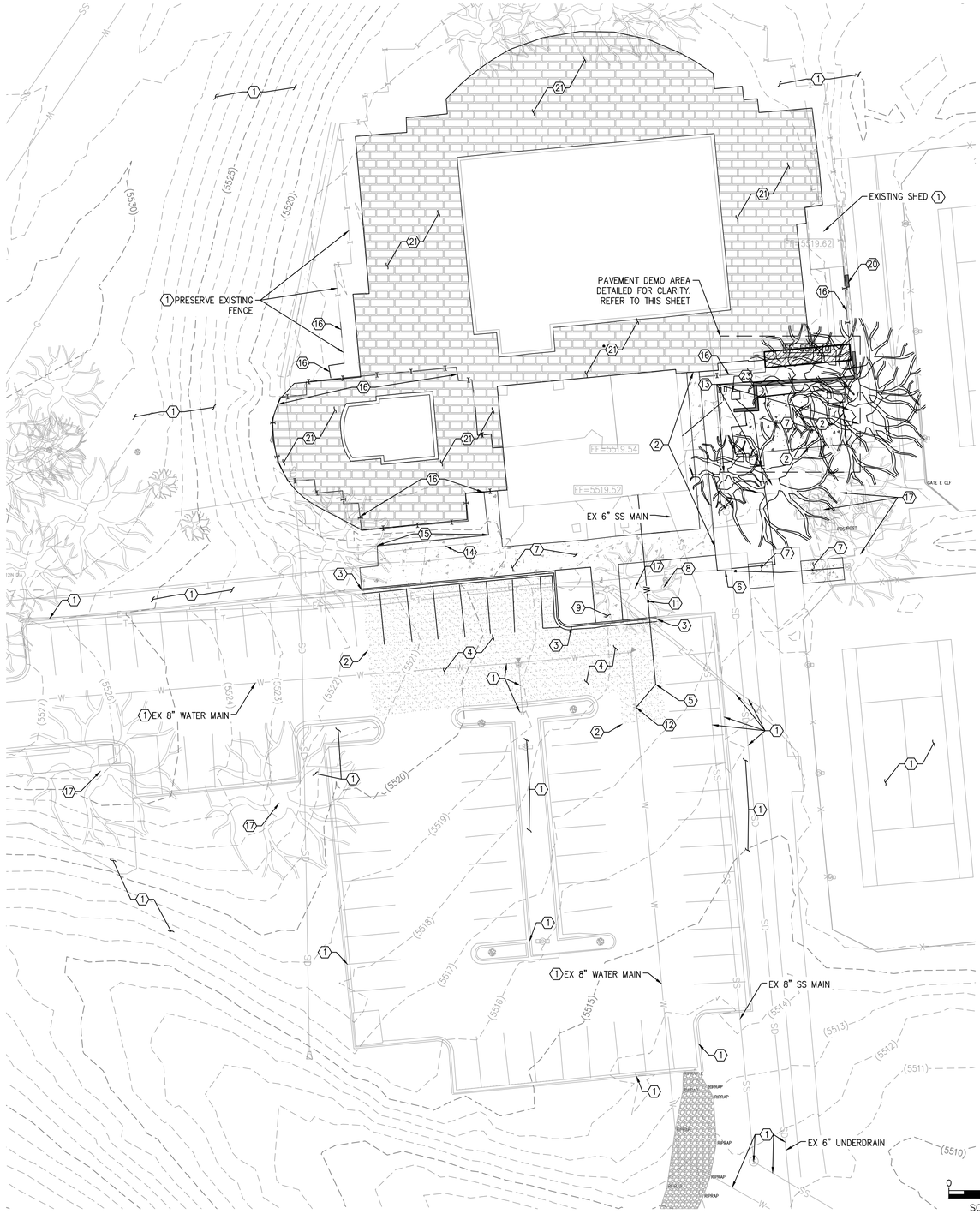
1/24/2026 2:39:16 PM Autodesk Docs://Superior North Pool Renovation/SNP_ARCH.rvt

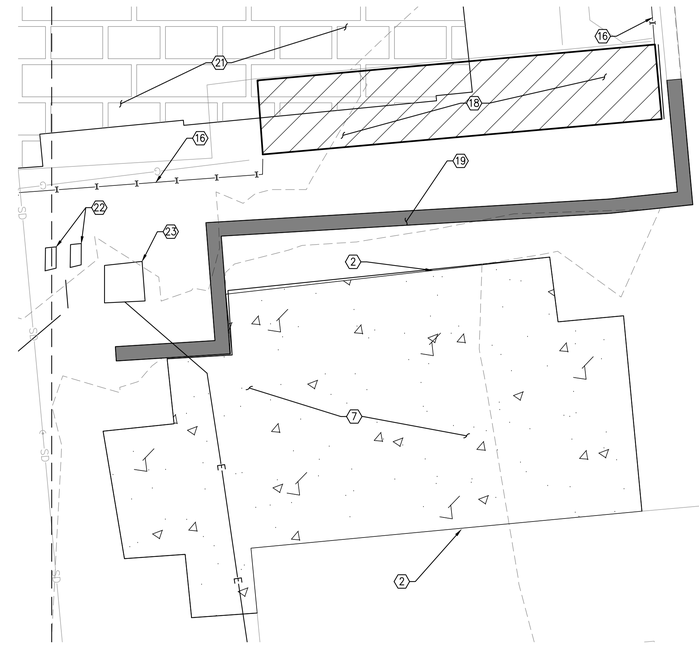
SYMBOLS LEGEND

- EXISTING IMPROVEMENT
- DEMO EXISTING IMPROVEMENT
- EXISTING FENCE
- EXISTING GAS
- EXISTING SANITARY SEWER
- EXISTING WATER
- EXISTING COMMUNICATION LINE
- EXISTING STORM SEWER
- EXISTING IRON FENCE
- EXISTING ELECTRIC PULL BOX
- SAWCUT
- (2.0%) EXISTING SLOPE/FLOW DIRECTION
- (50XX) EXISTING MINOR CONTOUR
- (50XX) EXISTING MAJOR CONTOUR
- PROPOSED CONCRETE REMOVAL
- PROPOSED ASPHALT REMOVAL
- PROPOSED WALL REMOVAL
- PROPOSED POOL DECK REMOVAL

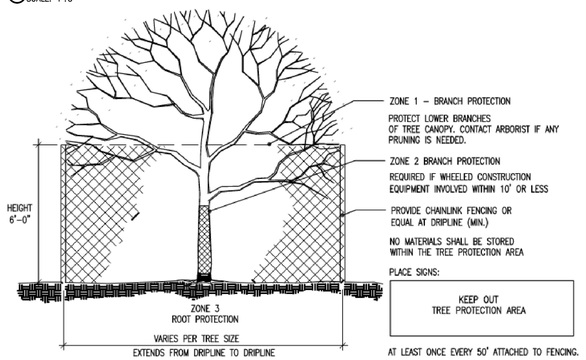


DEMOLITION KEYNOTES:

1. PROTECT EXISTING IMPROVEMENTS IN PLACE.
2. PROPOSED SAWCUT LINE
3. REMOVAL OF CURB AND GUTTER.
4. REMOVE EXISTING ASPHALT. REFER TO SHEET C-3 FOR LOCATION AND C-2 FOR ELEVATIONS,
5. ABANDON EXISTING 1" WATER SERVICE AND TAP. REFER TO DETAIL 400-33 ON SHEET C-4.
6. REMOVE EXISTING 1/2" WATER SERVICE LINE
7. REMOVE EXISTING CONCRETE
8. REMOVE EXISTING FLAG POLE.
9. REMOVE EXISTING RAMP
10. UTILITY CROSSING
11. ABANDON EXISTING 1" WATER METER AND METER PIT
12. ASSUMED LOCATION OF EXISTING 1" WATER SERVICE AND TAP. CONTRACTOR TO VERIFY LOCATION AND NOTIFY ENGINEER OF DISCREPANCIES.
13. REMOVE EXISTING TREE
14. RELOCATE BIKE RACK. REFER TO SITE PLAN FOR LOCATION.
15. REMOVE EXISTING RETAINING WALL.
16. REMOVE EXISTING FENCE.
17. PROTECT EXISTING TREE. REFER TO DETAIL 1 ON THIS SHEET FOR TREE PROTECTION DETAILS.
18. REMOVE STORAGE SHED.
19. REMOVE WALL. CONTRACTOR TO SALVAGE ANY USABLE PIECES. REFER TO SHEET C-3 FOR MORE DETAILS.
20. REMOVE SECTION OF WALL AND REPLACE PER SHEETS C-2 AND C-3.
21. REMOVE EXISTING POOL DECK.
22. REMOVE AND RELOCATE ELECTRICAL STRUCTURE PER ELECTRICAL PLAN
23. REMOVE AND RELOCATE TRANSFORMER & ELECTRIC BOXES PER SHEET C-3



2 PAVEMENT REMOVAL DETAIL
SCALE: 1":5



1 C-1 **TREE PROTECTION**
SCALE: NTS

TREE PRESERVATION NOTES:

- ALL TREES/VEGETATION TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCING PER DETAILS AND SPECIFICATIONS. REPLACE DAMAGED LANDSCAPE AND IRRIGATION WITHIN TREE PROTECTION FENCED AREAS TO PRE-CONSTRUCTION CONDITION.
- ANY WORK INSIDE THE TREE PROTECTION ZONE SHOULD REQUIRE THE APPROVAL OF THE ARCHITECT OR CIVIL ENGINEER AND ANY WORK, ESPECIALLY CUT OR FILL GRADING WITHIN THE CRZ SHOULD REQUIRE IDENTIFYING MAJOR BUTTRESS OR SUPPORT ROOTS AND HAND EXCAVATING TO EXPOSE THE ROOT PRIOR TO PRUNING WITH SHARP, APPROPRIATE TOOLS

Know what's below Call before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAYBE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BENCHMARK: NGS BENCHMARK DESIGNATION P 453, EL=5508.96' (NAVD88),

STAINLESS STEEL ROD SET IN A 5-INCH (13 CM) PVC WITH LOGO LID, INSCRIBED--P453 2003--AND SURROUNDED BY A CONCRETE COLLAR, 112 FT (34.1 M) EAST FROM THE SOUTH CORNER OF THE SIGN FOR CENTURA 'HEALTH, AVISTA ADVENTIST HOSPITAL, 65 FT (19.8 M) NORTH FROM THE NORTHWEST END OF THE GUARDRAIL OVER A CONCRETE BOX CULVERT FOR A FARM ACCESS ROAD, 51 FT (15.5 M) NORTHEAST FROM THE NORTHEAST EDGE OF OIL OF NORTHWEST-BOUND US 36, 33 FT (21.0 M) NORTHWEST FROM THE WOOD CORNER POST OF A WOVEN-WIRE FENCE, 3.8 FT (1.2 M) SOUTHWEST FROM THE FENCE, 2.6 FT (0.8 M) SOUTHWEST FROM A GREEN CARSONITE WITNESS POST.

BASIS OF BEARINGS: N/A

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK E. OBERSTADT 35721 PROFESSIONAL ENGINEER 01/27/2026

Project Number:	2025.009
Issue:	100% CONSTRUCTION D OCUMENTS
Date:	01.23.2026
Drawn By:	KF
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

EXISTING CONDITIONS PLAN

C-1

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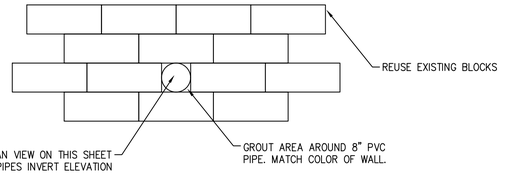

2 WALL DETAIL
SCALE: NTS

TREE PRESERVATION NOTES:

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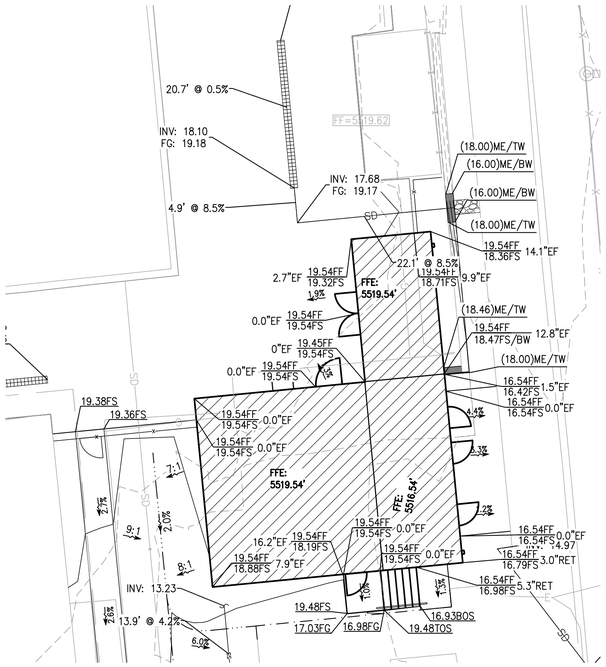
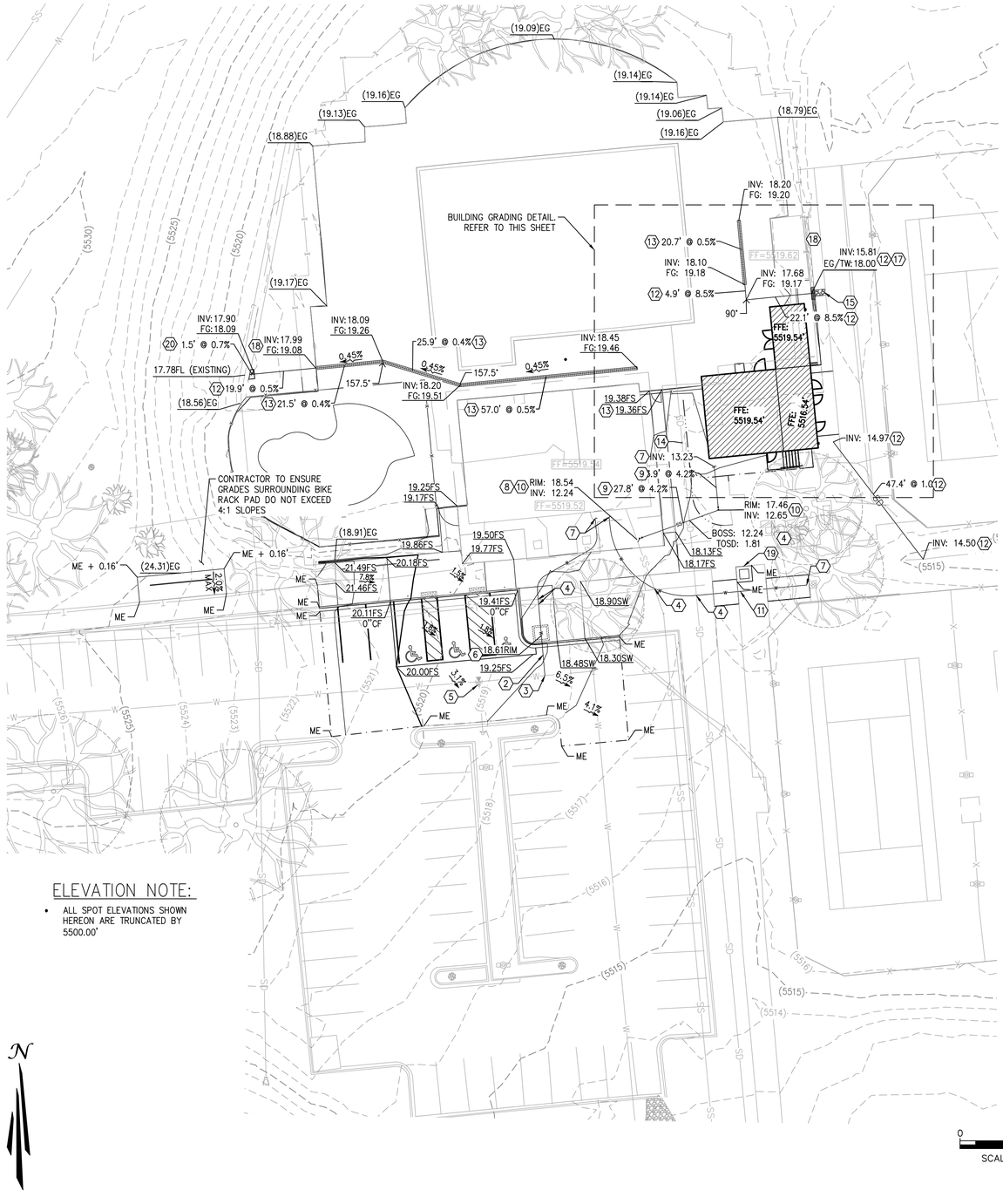


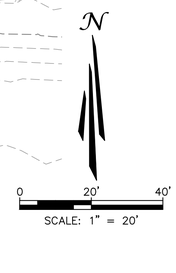
1 MECH BLDG GRADING DETAIL
SCALE: 1" = 10'



0 10' 20'
SCALE: 1" = 10'

ELEVATION NOTE:

- ALL SPOT ELEVATIONS SHOWN HEREON ARE TRUNCATED BY 5500.00'



0 20' 40'
SCALE: 1" = 20'

SYMBOLS LEGEND

- X — EXISTING FENCE
- G — EXISTING GAS
- SS — EXISTING SANITARY SEWER
- W — EXISTING WATER
- T — EXISTING COMMUNICATION LINE
- SD — EXISTING STORM SEWER
- EXISTING IRON FENCE
- EXISTING ELECTRIC PULL BOX
- PROPOSED BUILDING
- SAWCUT
- SWALE FLOWLINE
- PROPOSED STREET LIGHT LOCATION
- PROPOSED SIGN
- XX.XXFL — PROPOSED ELEVATION
- (XX.XX)ES — EXISTING ELEVATION
- 2.0% — PROPOSED SLOPE/FLOW DIRECTION
- (2.0%) — EXISTING SLOPE/FLOW DIRECTION
- (50XX) — EXISTING MINOR CONTOUR
- (50XX) — EXISTING MAJOR CONTOUR
- 50XX — PROPOSED MINOR CONTOUR
- 50XX — PROPOSED MAJOR CONTOUR
- PROPOSED BUILDING CONSTRUCTION
- PROPOSED WALL
- EXISTING TREE TO BE PROTECTED

ADA NOTE:

ALL ACCESSIBLE PATHS OF TRAVEL ARE TO ABIDE BY THE FOLLOWING PARAMETERS:

- CROSS-SLOPE NOT TO EXCEED 2%
- LONGITUDINAL SLOPE NOT TO EXCEED 5%
- LONGITUDINAL RAMP SLOPE NOT TO EXCEED 8.33%
- RAMP LANDINGS NOT TO EXCEED 2% (LANDING PLACEMENT PER RAMP DETAILS).
- PATHWAYS EXCEEDING THESE STANDARDS WILL BE REPLACED AT THE CONTRACTORS EXPENSE

ABBREVIATIONS

BOS	BOTTOM OF STAIRS
BOSS	BOTTOM OF SANITARY SEWER
BW	BOTTOM OF WALL
CF	CURB FACE
EF	EXPOSED FOUNDATION
EG	EXISTING GROUND
ES	EXISTING SURFACE
FF/FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FG	FINISHED GROUND
FS	FINISHED SURFACE
GB	GRADE BREAK
ME	MATCH EXISTING
PL	PROPERTY LINE
RET	RETAINED HEIGHT
R	RIDGE
SW	SIDEWALK
TC	TOP OF CURB
TOS	TOP OF STAIRS
TOSD	TOP OF STORM DRAIN
TW	TOP OF WALL

KEYNOTES

1. PROTECT EXISTING IMPROVEMENTS IN PLACE.
2. PROPOSED 2" WATER SERVICE. REFER TO DETAIL 400-8 ON SHEET C-4.
3. PROPOSED WATER SERVICE CONNECTION. REFER TO DETAIL 400-8 ON SHEET C-4.
4. UTILITY CROSSING. PROTECT EXISTING UTILITY IN PLACE.
5. RESET WATER VALVE RIM ELEVATION. REFER TO DETAIL 400-6 ON SHEET C-4.
6. PROPOSED 2" WATER METER AND METER PIT. REFER TO DETAIL 400-10 ON SHEET C-4.
7. UTILITY POC AT BUILDING. REFER TO MEP PLANS FOR MORE DETAIL.
8. PROPOSED SANITARY SEWER SERVICE CONNECTION. TO EXISTING 6" SERVICE WITH 6"X6"X6" WYE.
9. PROPOSED 6" SANITARY SEWER SERVICE. REFER TO DETAIL 500-8 ON SHEET C-4.
10. PROPOSED DOUBLE SWEEP SANITARY SEWER CLEANOUT. REFER TO DETAIL 500-10 ON SHEET C-4.
11. PROPOSED 1" WATER SERVICE TO SERVE DRINKING FOUNTAIN .
12. PROPOSED 8" PVC STORM DRAIN.
13. PROPOSED 4" DURATRENCH THERMOPLASTIC TRENCH DRAIN.
14. RESET STORM CLEANOUT LID ELEVATION.
15. INSTALL 7 SF OF BURIED RIPRAP FOR STORM DRAIN OUTFALL THROUGH WALL. D50=6" THICKNESS=12".
16. INSTALL 8" PVC BEND
17. CONTRACTOR TO INSTALL 8" PVC THROUGH THE WALL PER DETAIL 2 ON THIS SHEET.
18. PROPOSED DURATRENCH 4" TRENCH TO 8" PIPE CONNECTION
19. PROPOSED TRANSFORMER LOCATION COORDINATE WITH MEP PLAN
20. 0.5 SY CONCRETE APRON TO MATCH PAN.

Know what's **below** **Call** before you dig.

UNAUTHORIZED CHANGES & USES

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BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK E. OBERSCHMIDT 35721 PROFESSIONAL ENGINEER 01/27/2026

Project Number:	2025.009
Issue:	100% CONSTRUCTION D OCUMENTS
Date:	01.23.2026
Drawn By:	KF
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

GRADING & UTILITY PLAN

C-2

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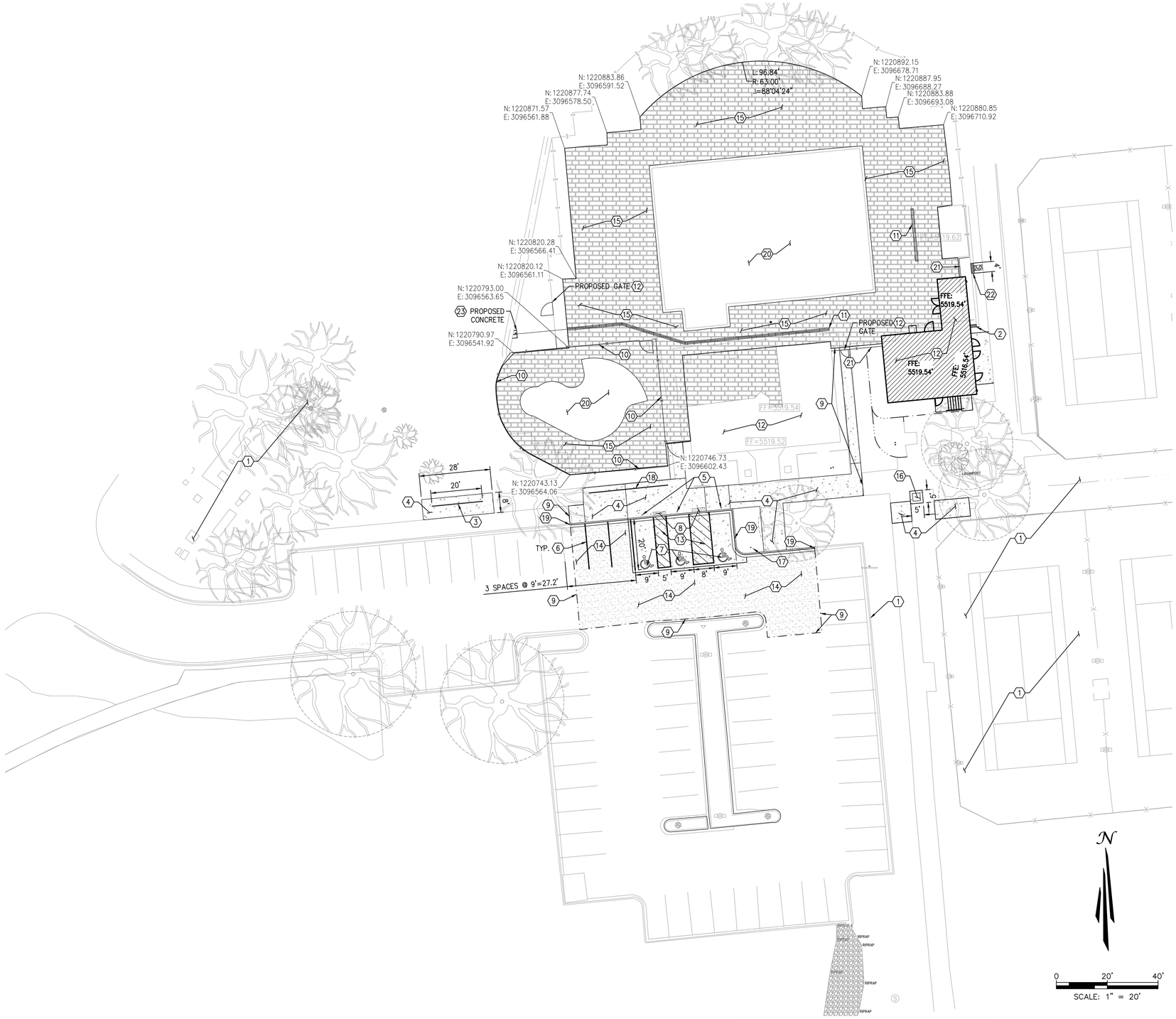

SYMBOLS LEGEND

- PROPOSED BUILDING CONSTRUCTION
- EXISTING FENCE
- EXISTING TELEPHONE MANHOLE
- PROPOSED BUILDING
- LIMIT OF DISTURBANCE
- SAWCUT
- SWALE FLOWLINE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED WALL
- PROPOSED POOL DECK
- PROPOSED STREET LIGHT LOCATION
- PROPOSED SIGN
- PROPOSED WATER METER
- PROPOSED WATER MANHOLE
- EXISTING TREE TO BE PROTECTED

KEYNOTES

1. PROTECT EXISTING IMPROVEMENTS IN PLACE.
2. PROPOSED WALL. CONTRACTOR TO REUSE ANY WALL SALVAGED FROM DEMOLITION. REFER TO SHEET C-2 FOR ELEVATIONS.
3. PROPOSED BICYCLE PARKING. REFER TO ARCHITECTURAL PLANS.
4. PROPOSED SIDEWALK. REFER TO DETAIL 800-6 ON SHEET C-5.
5. PROPOSED ADA PARKING SIGN PER DETAIL 1 ON SHEET C-5.
6. PROPOSED 4" WHITE STRIPES TO DELINEATE PARKING STALLS / LANE STRIPING (2-COATS) – TYPICAL AS SHOWN HEREON.
7. PROPOSED ADA PARKING STALL AND ACCESS AISLE. ADA SYMBOL SHALL BE PAINTED WHITE ON A BLUE BACKGROUND AND ACCESS AISLE SHALL BE 4" WHITE STRIPED (2-COATS EACH).
8. PROPOSED ACCESS RAMP WITH TRUNCATED DOMES. REFER TO DETAIL 800-14 ON SHEET C-5. REFER TO GRADING PLAN FOR ELEVATIONS.
9. PROPOSED SAWCUT LINE.
10. PROPOSED IMPROVEMENTS. REFER TO LANDSCAPE PLANS.
11. PROPOSED TRENCH DRAIN. REFER TO SHEET C-2 FOR MORE DETAIL.
12. PROPOSED IMPROVEMENTS. REFER TO ARCHITECTURAL PLANS.
13. PROPOSED CONCRETE. REFER TO DETAIL 2 ON SHEET C-5.
14. PROPOSED ASPHALT. REFER TO DETAIL 500-11A AND DETAIL 3 ON SHEET C-5.
15. PROPOSED POOL REMOVAL AND REPLACE DECK TILES IN KIND.
16. PROPOSED TRANSFORMER PAD. CONTRACTOR TO COORDINATE WITH XCEL ENERGY.
17. UTILITY IMPROVEMENT. REFER TO GRADING AND UTILITY PLAN FOR MORE DETAIL.
18. PROPOSED BIKE RACK RELOCATION. REFER TO GRADING & UTILITY PLAN FOR ELEVATIONS.
19. PROPOSED MEDIAN CURB AND GUTTER. REFER TO DETAIL 800-1 ON SHEET C-5.
20. PROPOSED IMPROVEMENTS. REFER TO WTI AQUATIC PLANS.
21. PROPOSED FENCE. CONTRACTOR TO REUSE ANY FENCE REMOVED IN DEMOLITION.
22. CONTRACTOR TO REMOVE AND REPLACE EXISTING WALL WITH PIPE PER DETAIL XI
23. 0.5 SY CONCRETE APRON TO MATCH PAN.

Know what's **below** **Call** before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAYBE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BENCHMARK: NGS BENCHMARK DESIGNATION P 453, EL=5508.96' (NAVD88),

STAINLESS STEEL ROD SET IN A 5-INCH (13 CM) PVC WITH LOGO LID, INSCRIBED--P453 2003--AND SURROUNDED BY A CONCRETE COLLAR, 112 FT (34.1 M) EAST FROM THE SOUTH CORNER OF THE SIGN FOR CENTURA 'HEALTH, AVISTA ADVENTIST HOSPITAL, 65 FT (19.8 M) NORTH FROM THE NORTHWEST END OF THE GUARDRAIL OVER A CONCRETE BOX CULVERT FOR A FARM ACCESS ROAD, 51 FT (15.5 M) NORTHEAST FROM THE NORTHEAST EDGE OF OIL OF NORTHWEST-BOUND US 36, 33 FT (21.0 M) NORTHWEST FROM THE WOOD CORNER POST OF A WOVEN-WIRE FENCE, 3.8 FT (1.2 M) SOUTHWEST FROM THE FENCE, 2.6 FT (0.8 M) SOUTHWEST FROM A GREEN CARSONITE WITNESS POST.

BASIS OF BEARINGS: N/A

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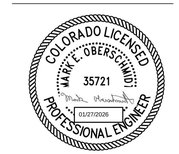

Project Number: 2025.009
Issue: 100% CONSTRUCTION D OCUMENTS
Date: 01.23.2026
Drawn By: KF
Checked By: MEO
Revisions:
Description Date:

Sheet title:
SITE PLAN

C-3

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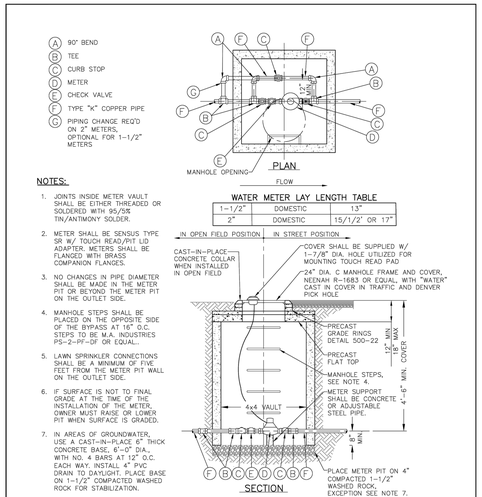
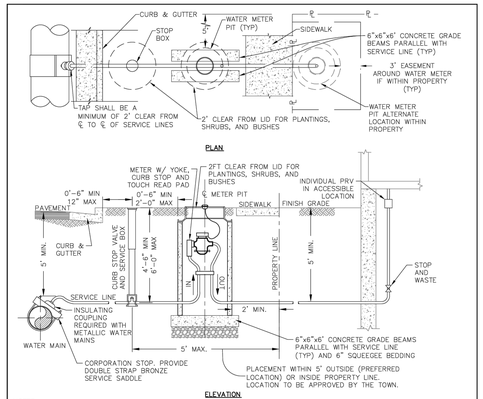


THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

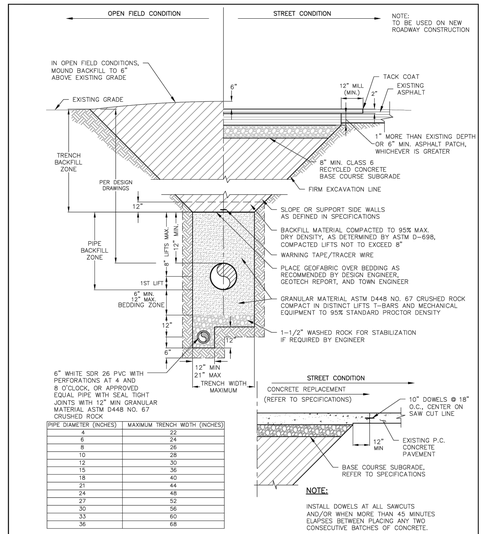
Town of Superior	1-1/2" AND 2" DOMESTIC METER SETS	
	DATE: JANUARY 2019	SHEET 400-10



NOTES:
1. SERVICE LINE TO BE TYPE "K" COPPER.
2. SERVICE LINE AND METER PIT TO BE INSPECTED BY THE TOWN.
3. INSTALL INDIVIDUAL PRESSURE REDUCING VALVE (PRV) UNLESS SPECIFICALLY NOT REQUIRED BY THE ENGINEER. ALTERNATE LOCATION FOR PRV IN METER PIT.
4. CORP STOP TO BE MUELLER H-15000 OR FORD F-600, OR APPROVED TOWN EQUAL.
5. NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE FROM THE WATER MAIN TO 5' PAST THE OUTSIDE WALL OF THE METER PIT ON THE CUSTOMER SIDE. SERVICE LINE MAY BE INCREASED ONE PIE SIZE AFTER THIS POINT.
6. SEE TOWN OF SUPERIOR STANDARDS AND SPECIFICATIONS SECTION 343.00 FOR BEDDING.

THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

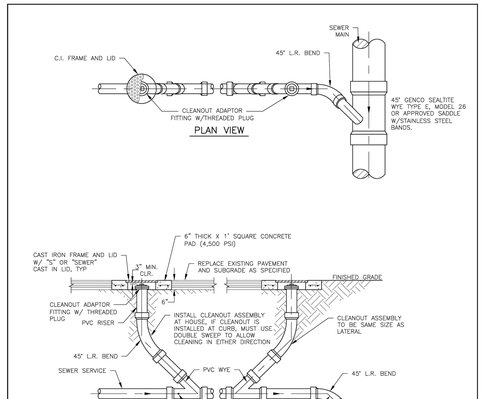
Town of Superior	TYPICAL POTABLE WATER SERVICE DETAIL	
	DATE: JANUARY 2019	SHEET 400-8



PIPE DIAMETER (INCHES)	MAXIMUM TRENCH WIDTH (INCHES)
4	22
6	24
8	26
10	28
12	30
15	36
18	40
21	44
24	48
27	52
30	56
33	60
36	68

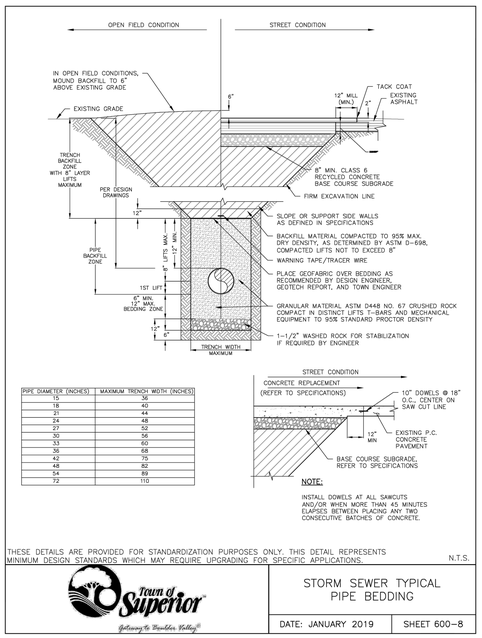
THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

Town of Superior	TYPICAL SANITARY SEWER TRENCH PIPE BEDDING	
	DATE: AUGUST 2019	SHEET 500-8



THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

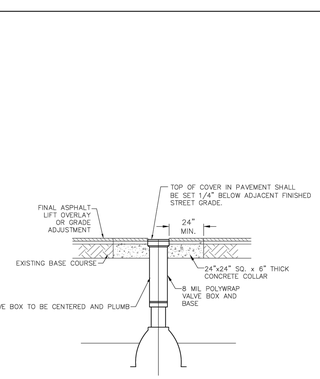
Town of Superior	STANDARD CLEAN-OUT SERVICE LINE DETAIL	
	DATE: MAY 2023	SHEET 500-10



PIPE DIAMETER (INCHES)	MAXIMUM TRENCH WIDTH (INCHES)
15	36
18	40
21	44
24	48
27	52
30	56
33	60
36	68
42	75
48	82
54	89
72	110

THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

Town of Superior	STORM SEWER TYPICAL PIPE BEDDING	
	DATE: JANUARY 2019	SHEET 600-8



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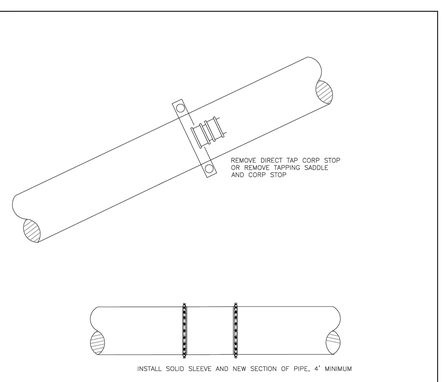
Town of Superior	VALVE BOX ADJUSTMENT	
	DATE: JANUARY 2019	SHEET 400-6



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Town of Superior	ABANDONMENT OF WATER SERVICE TAPS	
	DATE: JANUARY 2019	SHEET 400-33

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK E. OBERSCHMIDT 35721 01/27/2026 PROFESSIONAL ENGINEER

Project Number: 2025.009
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Revisions:
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Sheet title:
UTILITY DETAILS

C-4

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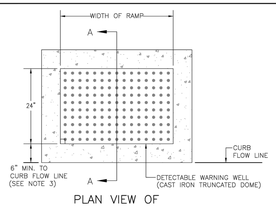
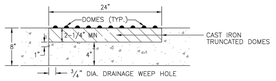


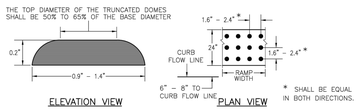
PLAN VIEW OF
DETECTABLE WARNING AND WELL

NOTES:

1. THE CAST IRON TRUNCATED DOMES SHALL BE INSTALLED AT SIDEWALK/STREET TRANSITIONS. THEY SHALL BE CAST IRON TRUNCATED DOME SURFACE. THE DOMES SHALL BE PLACED IN A SQUARE GRID.
2. THE TOP OF THE DRAINAGE WEEP HOLE SHALL BE LOCATED AT THE LOWEST POINT OF THE CAST IRON TRUNCATED DOMES WELL.
3. ALL CAST IRON TRUNCATED DOME AREAS SHALL START A MINIMUM OF 6 INCHES FROM THE FLOW LINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 INCHES FROM ANY POINT ON THE FLOW LINE OF THE CURB. ALL DETECTABLE WARNING AREAS SHALL BE 24 INCHES IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY. THE DETECTABLE WARNING AREA SHALL BE INCLUDED
4. CONCRETE TO BE CDOT CLASS B/D 4,500 PSI



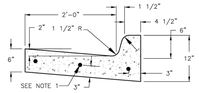
SECTION A–A



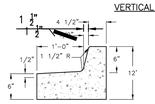
DOME AND DETECTABLE WARNING DETAILS

THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

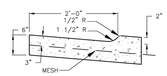
Town of Superior — Gateway to Boulder Valley	CAST IRON TRUNCATED DOME	
	DATE: JANUARY 2019	SHEET 800–14



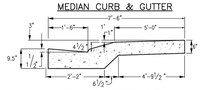
VERTICAL CURB & GUTTER



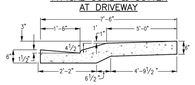
MEDIAN CURB & GUTTER



TYPICAL CURB & GUTTER AT DRIVEWAY



CURB AND GUTTER TYPE 2
(SECTION MS)
(USE WITH 9.5" CONCRETE)



CURB AND GUTTER TYPE 2
(SECTION MS)
(4" MOUNTABLE WITH SIDEWALK)

NOTES:

1. NO. 5 EPOXY COATED REBAR SHALL BE USED IN ALL CURB RETURNS WITH 25' OR LARGER RADII. THE REBAR SHALL BE USED FROM BEGINNING TO END OF THE CURB RETURN AND BE FULLY SUPPORTED WITH STEEL CHAIRS.
2. SUBGRADE UNDER CURB, GUTTER AND SIDEWALK TO BE COMPACTED TO 95% ASHTO T-180.
3. ALL ATTACHED SIDEWALK SHALL BE PLACED MONOLITHIC WITH THE CURB AND GUTTER.
4. CONCRETE TO BE CDOT B/D 4,500 PSI STRENGTH
5. REMOVE AND REPLACE SECTIONS OF CURB AND GUTTER/SIDEWALK SHALL BE REMOVED FROM CONTROL JOINT TO CONTROL JOINT. #5 X 24 INCH EPOXY COATED REBAR DOWELS SHALL BE DRILLED AND EPOXIED 12 INCHES INTO EXISTING CONCERT, MINIMUM 3 LOCATIONS

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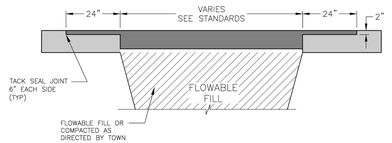
Town of Superior — Gateway to Boulder Valley	CURB, GUTTER, AND WALK	
	DATE: JANUARY 2019	SHEET 800–1

STREET CLASSIFICATION	MINIMUM ASPHALT PATCH THICKNESS — ZONING: INDUSTRIAL		ALL OTHER	
	THICKNESS	LIFTS	THICKNESS	LIFTS
ARTERIAL	11"	3	11"	3
COLLECTOR	7"	2	7"	2
LOCAL	6"	2	6"	2

Asphalt Patch

HMA OVER CDOT FLOW FILL, OR FOAMED FLASH FILL WITH 2" MILL AND OVERLAY 2' WIDER THAN FULL DEPTH PATCH ON BOTH SIDES



NOTES:

1. PATCHBACK IS TO BE USED ON EXISTING ROADWAYS.
2. CDOT FLOW FILL, OR FOAM FLASH FILL FOR TRENCH BACKFILL.
3. PAVEMENT CUTS WILL NOT BE ALLOWED WITHOUT TOWN ENGINEER APPROVAL WITHIN SEVEN (7) YEARS AFTER A STREET HAS BEEN CONSTRUCTED, RECONSTRUCTED, OR OVERLAID. EMERGENCY REPAIRS ARE EXEMPT.
4. SEE ALSO STANDARD STREET SECTION DETAIL.

MAXIMUM LIFT DEPTH – 5"
MINIMUM LIFT DEPTH – 2"

THICKNESS OF EACH LIFT BELOW THE TOP SHALL NOT VARY MORE THAN 3/8", TOP LIFT SHALL BE GRADE SX HOT BITUMINOUS PAVEMENT.
FINISH SURFACE TOLERANCE SHALL NOT EXCEED 3/16" IN ANY DIRECTION WHEN CHECKED WITH 10 FOOT STRAIGHT EDGE. FINISHED SURFACE SHALL BE RAKED FREE OF AGGREGATE PRIOR TO COMPACTION EQUIPMENT BEING USED

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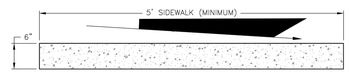
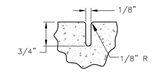
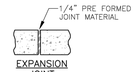
Town of Superior — Gateway to Boulder Valley	TRENCH PATCHBACK DETAIL	
	DATE: JANUARY 2019	SHEET 500–11a



STANDARD DETACHED/ATTACHED WALK



CONTRACTION OR
WEAKENED PLANE
JOINT
(EVERY 10 FEET)



EXPANSION
JOINT
(EVERY 100 FEET)

NOTES:

1. CONCRETE TO BE CDOT CLASS B/D 4,500 PSI STRENGTH.
2. CONCRETE TO HAVE LIGHT BROOM FINISH.
3. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%

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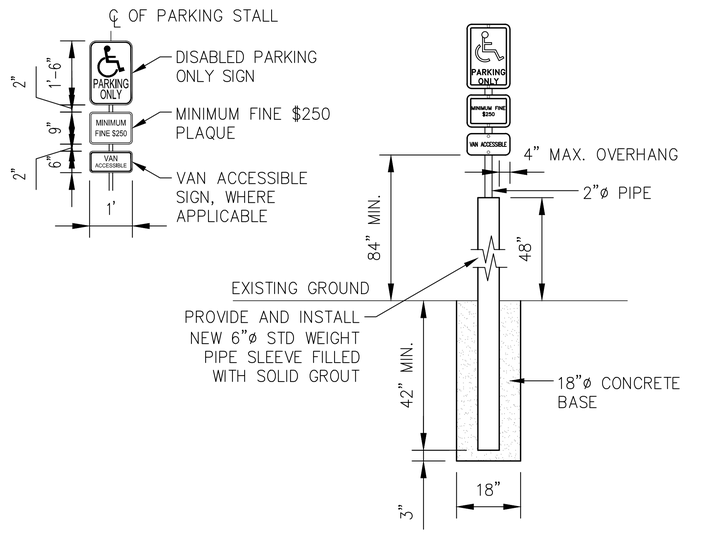
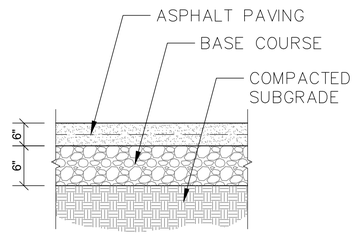
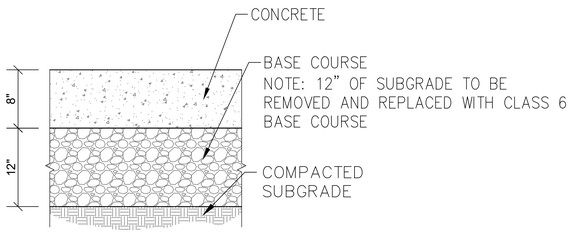
Town of Superior — Gateway to Boulder Valley	SIDEWALK DETAILS	
	DATE: JANUARY 2019	SHEET 800–6



1 ACCESSIBLE PARKING SIGN
SCALE: NTS



3 ASPHALT
SCALE: NTS



2 CONCRETE PAVEMENT
SCALE: NTS

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK E. OBERSCHMIDT 35721 01/27/2026 PROFESSIONAL ENGINEER

Project Number: 2025.009
Issue: 100% CONSTRUCTION D OCUMENTS
Date: 01.23.2026
Drawn By: KF
Checked By: MEO
Revisions:
Description Date:

Sheet title:
SITE DETAILS

C-5

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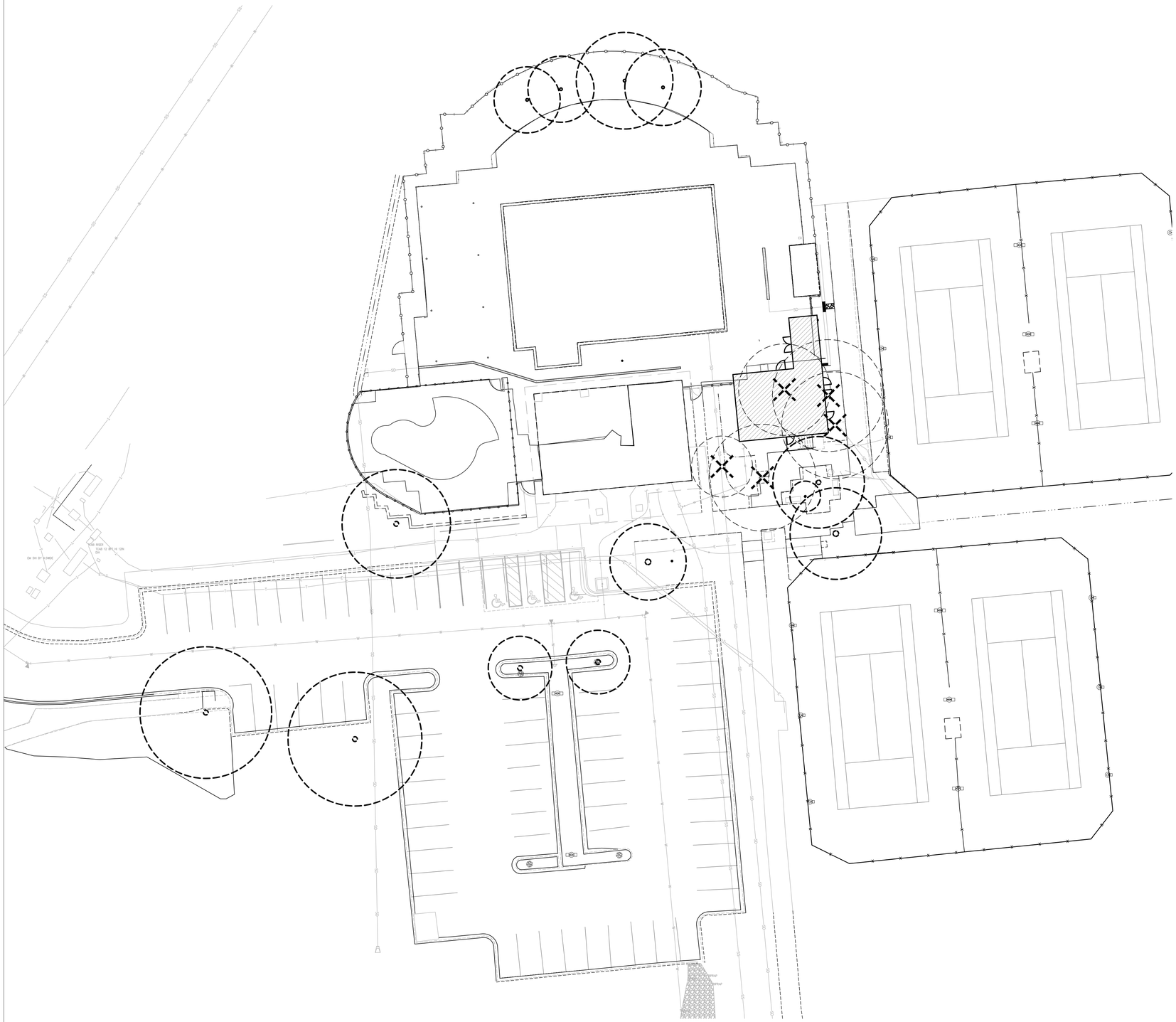

1 TREE PROTECTION/REMOVAL PLAN

0' 10' 20' 40'

TREE PROTECTION NOTES

1. ALL TREES WHICH ARE TO REMAIN ON SITE SHALL BE PROTECTED AS DEFINED PER THE CONTRACT DOCUMENTS. CONDITIONS SHOWN ARE PROPOSED CONDITIONS. RE SPECS FOR ADDITIONAL INFORMATION.
2. PRIOR TO ANY GRADING WORK,TREE PROTECTION FENCING SHALL BE INSPECTED BY A CITY REPRESENTATIVE.
3. NO EQUIPMENT SHALL BE CLEANED, OR HARMFUL LIQUIDS DEPOSITED WITHIN THE LIMITS OF TREE PROTECTION AREA.
4. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE TREE PROTECTION AREA.
5. NO SIGNS, WIRES, OR OTHER ATTACHMENTS SHALL BE ATTACHED TO ANY TREE TO REMAIN ON SITE.
6. NO GRADE CHANGE MORE THAN 3" SHALL BE ALLOWED WITHIN THE TREE PROTECTION AREA. RE SPECS.
7. ROOTS OR BRANCHES IN CONFLICT WITH CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING AND ROOT PRUNING METHODS.
8. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE TREE PROTECTION AREA AND/OR FOLIAGE.
9. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY WITH SOIL, MULCH, OR WET BURLAP.
10. NO WIRES, NAILS, OR OTHER MATERIALS MAY BE ATTACHED TO PROTECTED TREES.
11. ALL TREE MAINTENANCE TECHNIQUES SHALL BE IN CONFORMANCE WITH INDUSTRY IDENTIFIED STANDARDS.

LEGEND

EXISTING TREE TO REMAIN/PROTECT

EXISTING TREE TO BE REMOVED

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

CHRIS M SUTTERFIELD 457 03/07/2008 Original Date of Licensure STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

Superior Pool Renovations

Superior, Colorado

Project Number:	2025.009
Issue:	PERMIT SET
Date:	01.09.2026
Drawn By:	CH
Checked By:	CS

Revisions:

Description	Date:

Sheet title:

TREE DEMOLITION PLAN

L100

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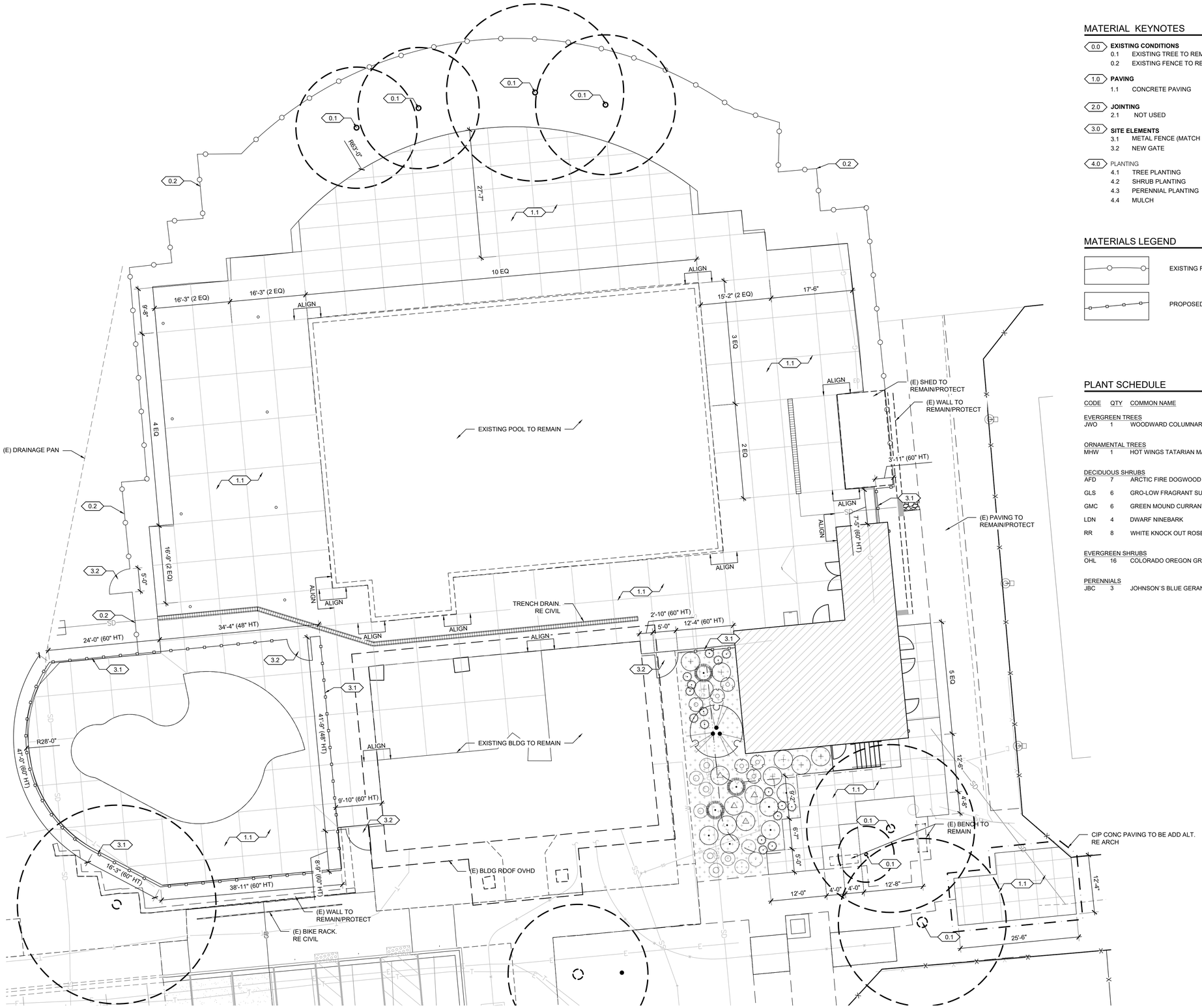

MATERIAL KEYNOTES

0.0	**EXISTING CONDITIONS**		
	0.1	EXISTING TREE TO REMAIN/PROTECT	DTL 1/L300
	0.2	EXISTING FENCE TO REMAIN/PROTECT	
1.0	**PAVING**		
	1.1	CONCRETE PAVING	DTL 1/L300
2.0	**JOINTING**		
	2.1	NOT USED	
3.0	**SITE ELEMENTS**		
	3.1	METAL FENCE (MATCH EXISTING)	DTL 2/L300
	3.2	NEW GATE	DTL 2/L300
4.0	PLANTING		
	4.1	TREE PLANTING	DTL 3/L300
	4.2	SHRUB PLANTING	DTL 4/L300
	4.3	PERENNIAL PLANTING	DTL 5/L300
	4.4	MULCH	

MATERIALS LEGEND

EXISTING FENCE TO REMAIN/PROTECT

PROPOSED FENCE. (MATCH EXISTING)

PLANT SCHEDULE

CODE	QTY	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
EVERGREEN TREES					
JWO	1	WOODWARD COLUMNAR JUNIPER	JUNIPERUS SCOPULORUM `WOODWARD`	B & B	8`
ORNAMENTAL TREES					
MHW	1	HOT WINGS TATARIAN MAPLE	ACER TATARICUM `GARANN`	B & B	5` CLMP
DECIDUOUS SHRUBS					
AFD	7	ARCTIC FIRE DOGWOOD	CORNUS SERICEA `ARCTIC FIRE`	5 GAL	CONT
GLS	6	GRO-LOW FRAGRANT SUMAC	RHUS AROMATICA `GRO-LOW`	5 GAL	CONT
GMC	6	GREEN MOUND CURRANT	RIBES ALPINUM `GREEN MOUND`	5 GAL	CONT
LDN	4	DWARF NINEBARK	PHYSOCARPUS OPULIFOLIUS `LITTLE DEVIL` TM	5 GAL	CONT
RR	8	WHITE KNOCK OUT ROSE	ROSA X `RADWHITE` TM	5 GAL	CONT
EVERGREEN SHRUBS					
OHL	16	COLORADO OREGON GRAPE HOLLY	MAHONIA REPENS `COLORADO`	5 GAL	CONT
PERENNIALS					
JBC	3	JOHNSON`S BLUE GERANIUM	GERANIUM X `JOHNSON`S BLUE`	1 GAL	CONT

1 LAYOUT & MATERIALS PLAN ENLARGEMENT

0' 5' 10' 20'

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

CHRIS M SUTTERFIELD 457 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

Superior Pool Renovations

Superior, Colorado

Project Number:	2025.009
Issue:	PERMIT SET
Date:	01.09.2026
Drawn By:	CH
Checked By:	CS

Revisions:

Description	Date:

Sheet title:

LAYOUT PLAN

L200

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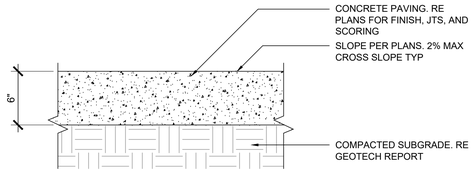
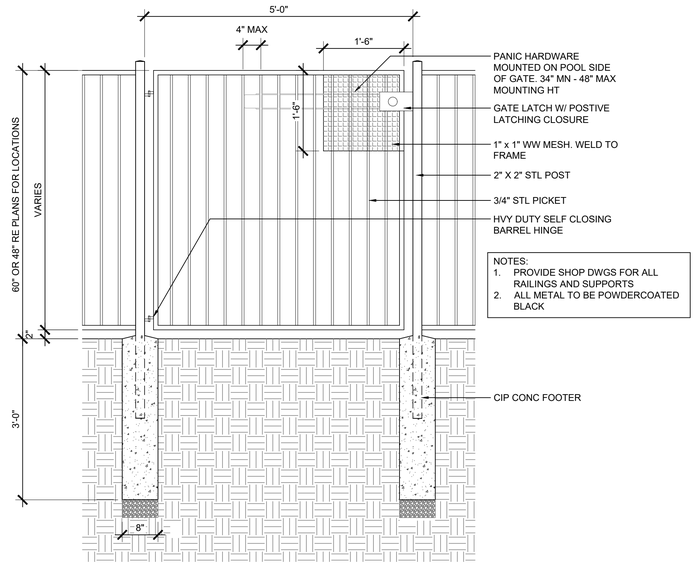
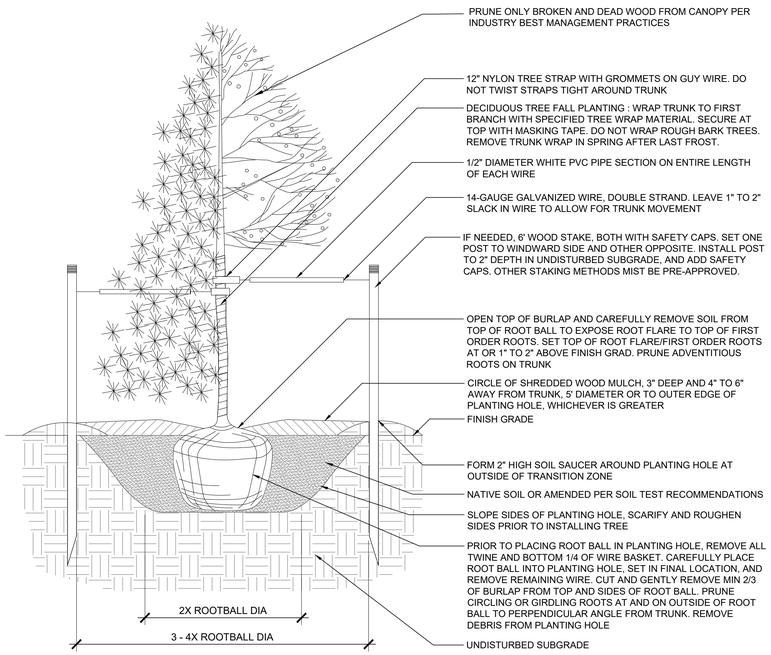


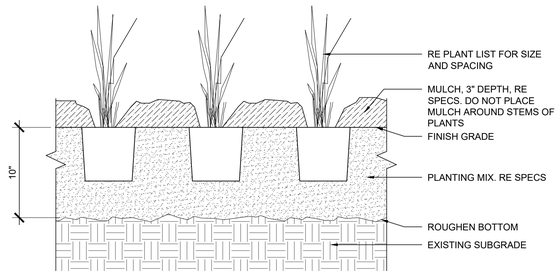
1 L300 CONCRETE PAVING SCALE: 1 1/2" = 1'-0"



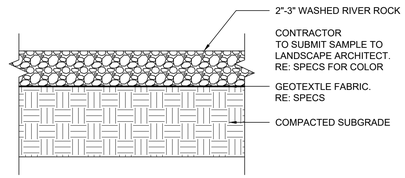
2 L300 POOL GATE SCALE: 1 1/2" = 1'-0"



3 L300 TREE PLANTING SCALE: 1/2" = 1'-0"



4 L300 SHRUB PLANTING SCALE: 1 1/2" = 1'-0"



5 L300 ROCK MULCH SCALE: 1 1/2" = 1'-0"

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com

CHRIS M SUTTERFIELD 457 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT 03/27/2006 Original Date of Issuance

Pool Renovations

Superior, Colorado

Project Number:	2025.009
Issue:	PERMIT SET
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Drawn By:	CH
Checked By:	CS

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Description	Date:

Sheet title:

DETAILS

L300

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DEMOLITION LEGEND

- DASHED LINE INDICATES EXISTING ELEMENT TO BE REMOVED, RELOCATED OR MODIFIED; REFER TO NOTATION ON DRAWING
- SOLID LINE INDICATES EXISTING ELEMENT TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH ANY PHASING REQUIRED TO COMPLETE THE WORK.

2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY PARTITIONS AND TEMPORARY DOORS AS DEEMED NECESSARY BY THE ARCHITECT, ENGINEER AND OWNER. THEY SHALL BE WELL MAINTAINED AND ANY DAMAGE REPAIRED IMMEDIATELY TO AVOID MIGRATION OF DUST INTO ADJOINING AREAS.

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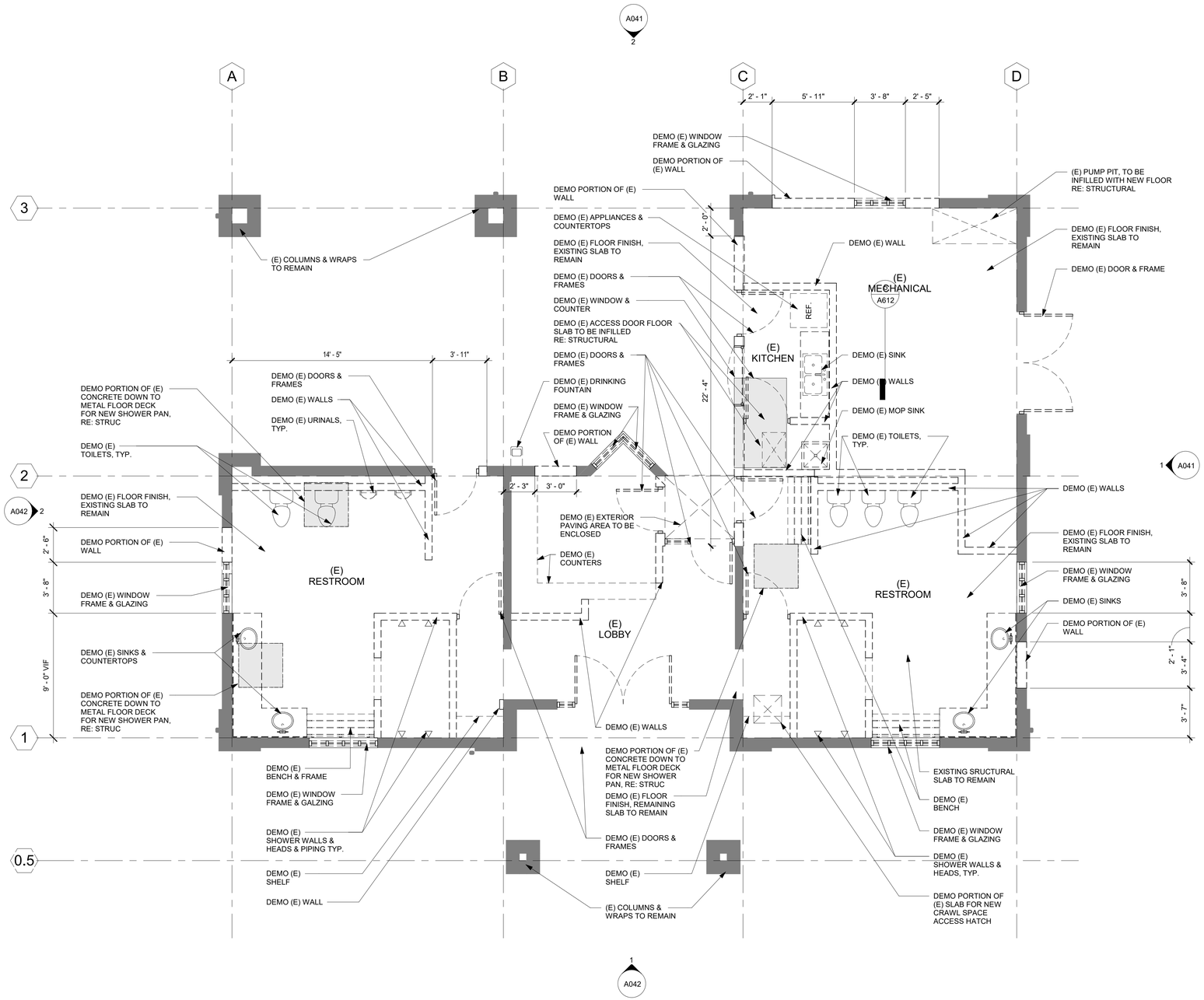

1 A021 FIRST FLOOR DEMO PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
205023
LICENSED ARCHITECT
1/4/2026

Project Number:	2025.009
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Sheet title:

DEMOLITION PLANS

A021

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RCP DEMOLITION LEGEND

- DASHED LINE INDICATES EXISTING ELEMENT TO BE REMOVED, RELOCATED OR MODIFIED; REFER TO NOTATION ON DRAWING
- SOLID LINE INDICATES EXISTING ELEMENT TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING CEILING TO BE REMOVED

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH ANY PHASING REQUIRED TO COMPLETE THE WORK.

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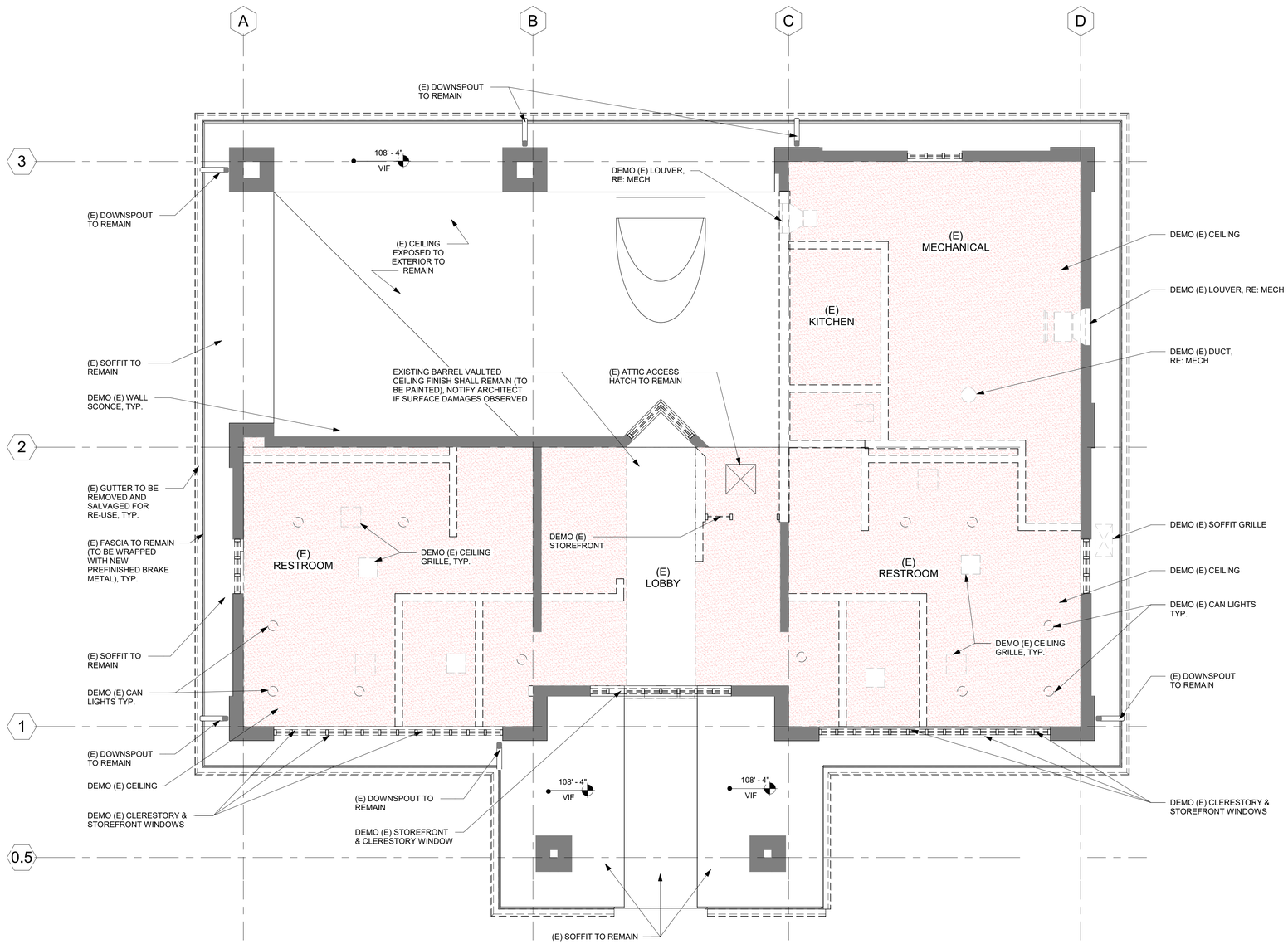

1 A031 REFLECTED CEILING DEMO PLAN - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT
1/24/2026

Project Number:	2025.009
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Sheet title:

DEMOLITION RCP

A031

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ELEVATION DEMOLITION LEGEND

DASHED LINE INDICATES EXISTING ELEMENT TO BE REMOVED, RELOCATED OR MODIFIED; REFER TO NOTATION ON DRAWING

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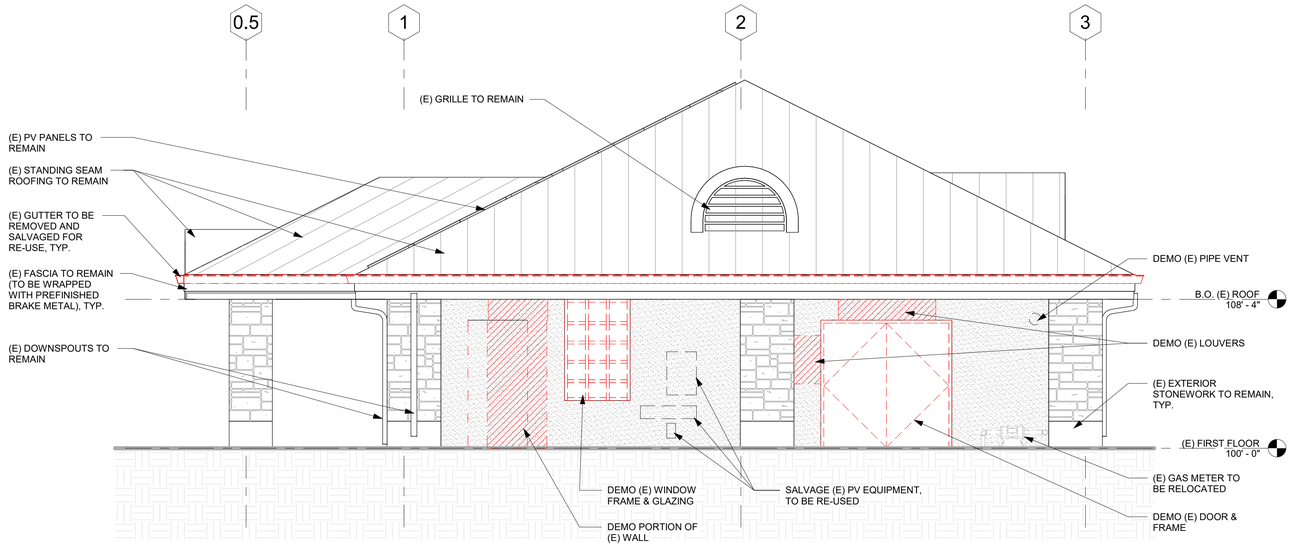

1 A041 EAST BUILDING DEMO ELEVATION - BATHHOUSE

1/4" = 1'-0"

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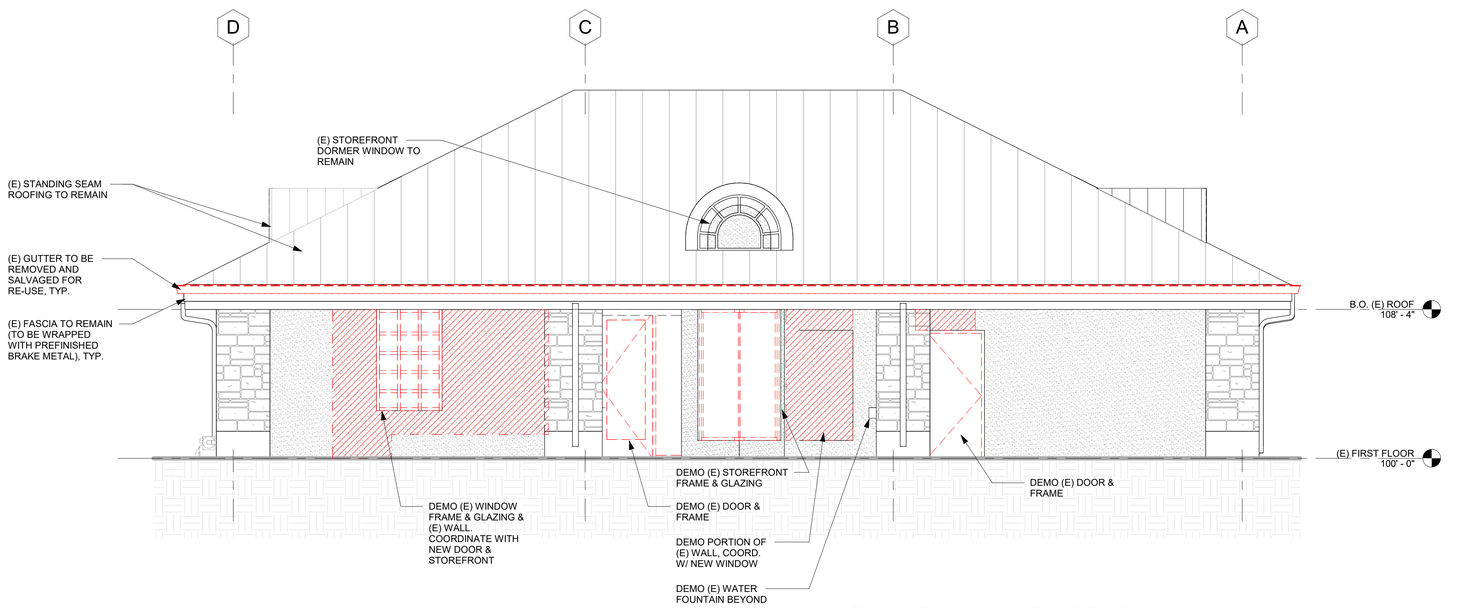

2 A041 NORTH BUILDING DEMO ELEVATION - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'

BARKER RINKER SEACAT ARCHITECTURE
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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
1/24/2026
LICENSED ARCHITECT

Project Number:	2025.009
Issue:	100% CONSTRUCTION DOCUMENTS
Date:	01.09.2026
Drawn By:	JG
Checked By:	CM

Revisions:

Description	Date:

Sheet title:

DEMOLITION ELEVATIONS - BATHHOUSE

A041

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1/24/2026 2:41:17 PM Autodesk Docs://Superior North Pool Renovation/SNP_ARCH.rvt

ELEVATION DEMOLITION LEGEND

DASHED LINE INDICATES EXISTING ELEMENT TO BE REMOVED, RELOCATED OR MODIFIED; REFER TO NOTATION ON DRAWING

SOLID LINE INDICATES EXISTING ELEMENT TO REMAIN

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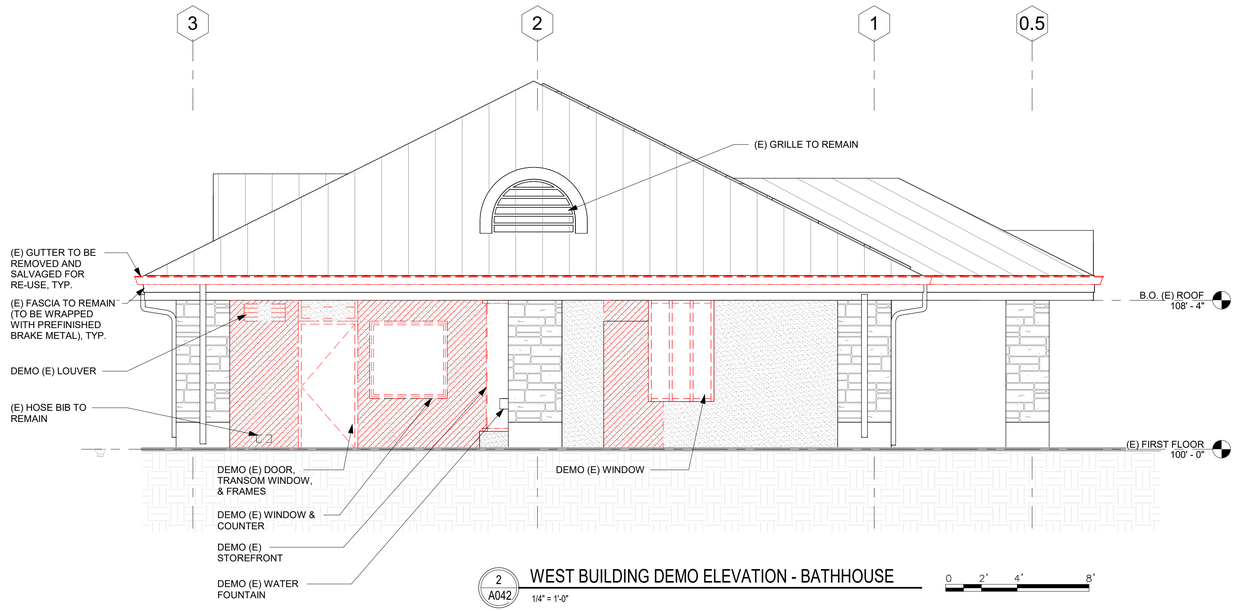
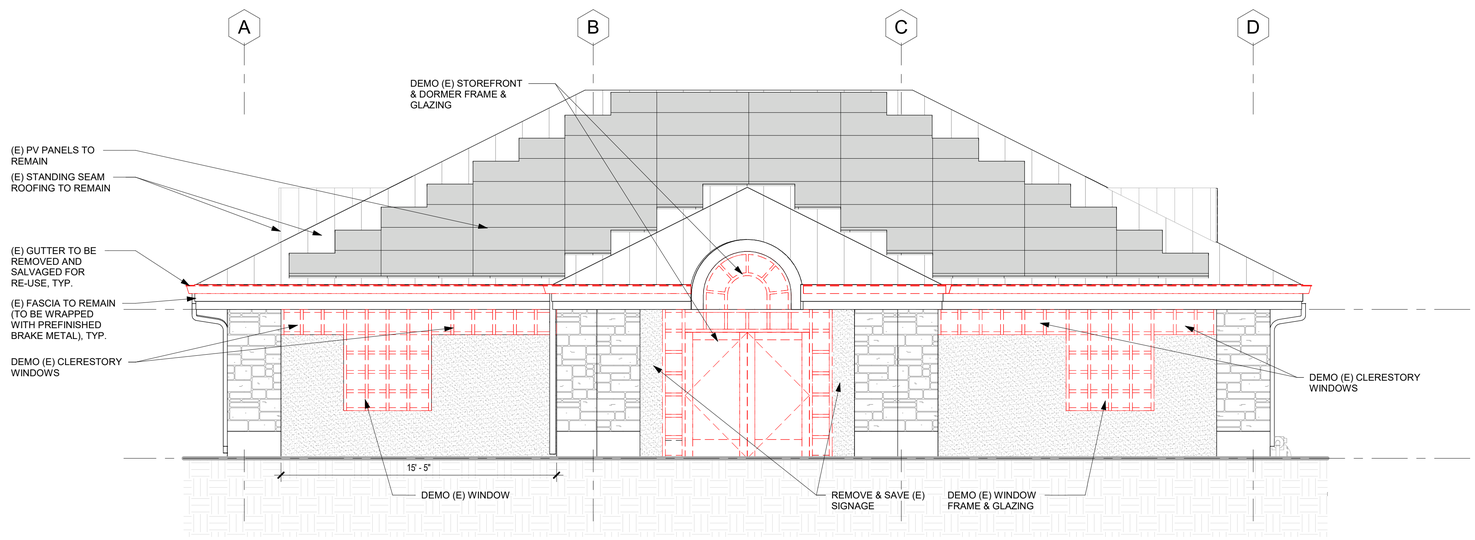


2 / A042 WEST BUILDING DEMO ELEVATION - BATHHOUSE
1/4" = 1'-0"

0 2' 4' 8'



1 / A042 SOUTH BUILDING DEMO ELEVATION - BATHHOUSE
1/4" = 1'-0"

0 2' 4' 8'

BARKER RINKER SEACAT ARCHITECTURE
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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
01/24/2026
LICENSED ARCHITECT

Project Number:	2025.009
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Checked By:	CM

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DEMOLITION ELEVATIONS - BATHHOUSE

A042

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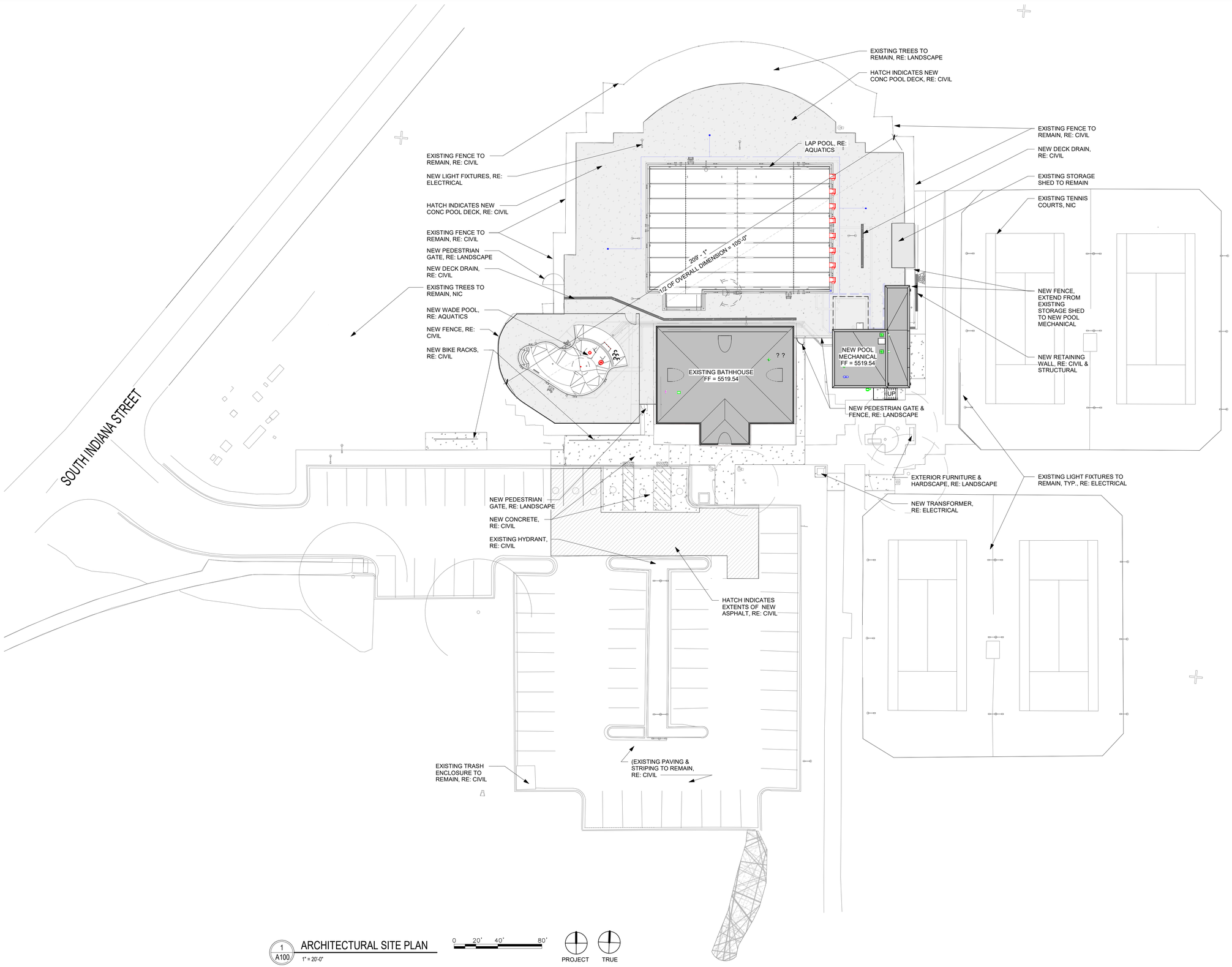

1 / A100 ARCHITECTURAL SITE PLAN

1" = 20'-0"

0 20' 40' 80'

PROJECT TRUE

1/24/2026 2:41:25 PM Autodesk Docs://Superior North Pool Renovation/SNP_ARCH.rvt

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
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ARCHITECTURAL SITE PLAN

A100

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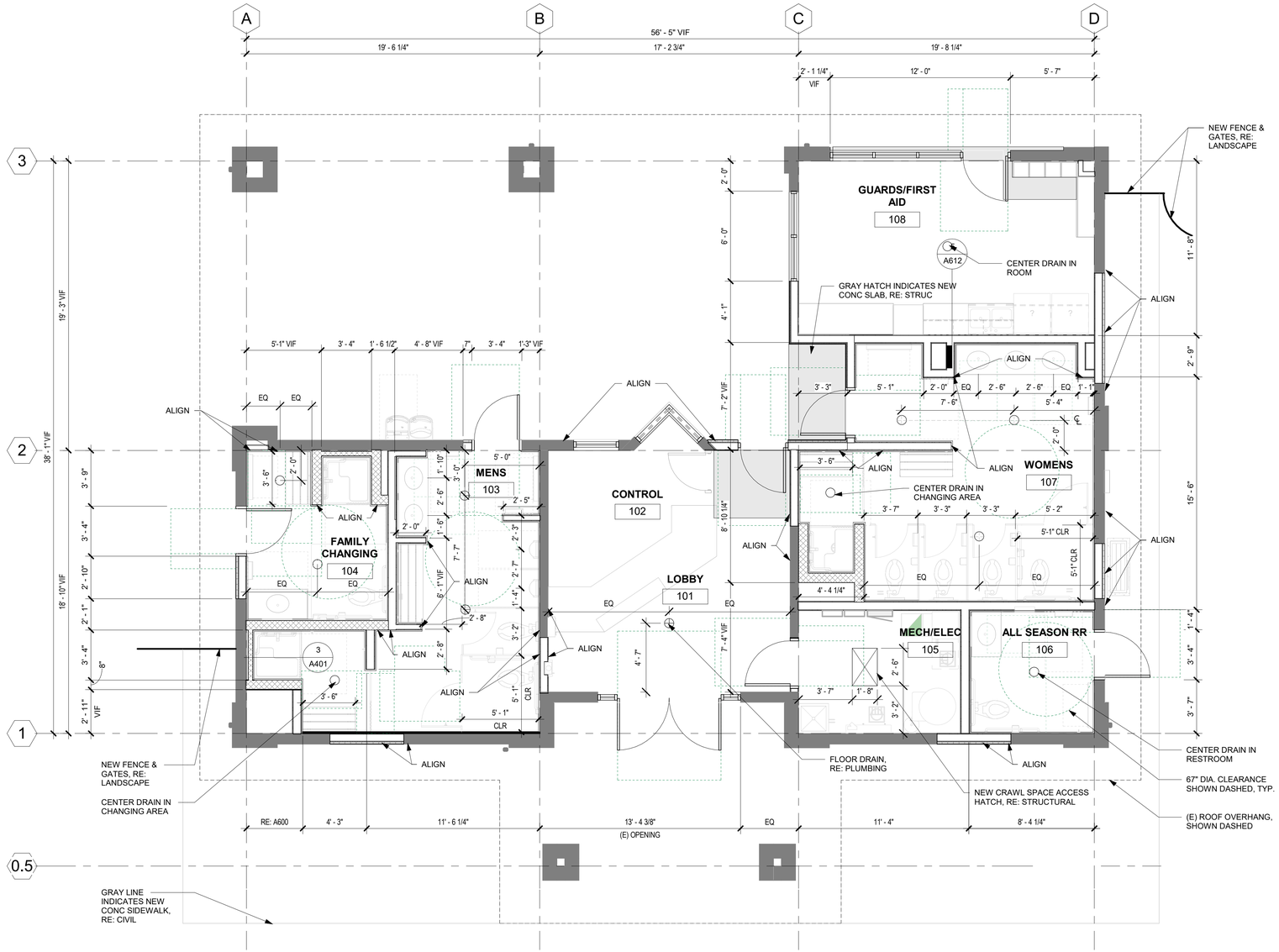

1 A101a FIRST FLOOR DIMENSION PLAN - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
1/24/2026
LICENSED ARCHITECT

Project Number:	2025.009
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FIRST FLOOR DIMENSION PLAN - BATHHOUSE

A101a

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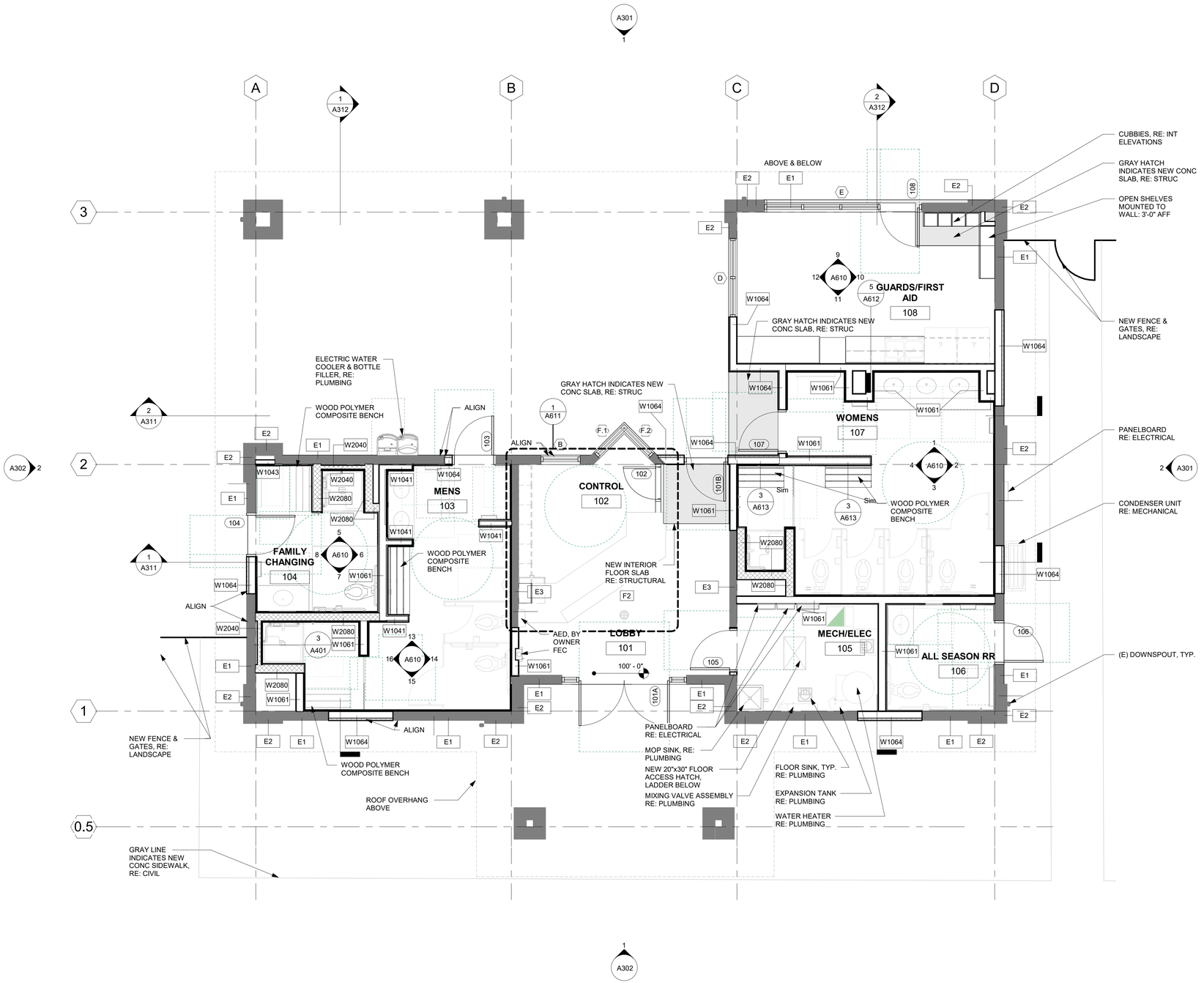

1 A101b FIRST FLOOR ANNOTATION PLAN - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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FIRST FLOOR ANNOTATION PLAN - BATHHOUSE

A101b

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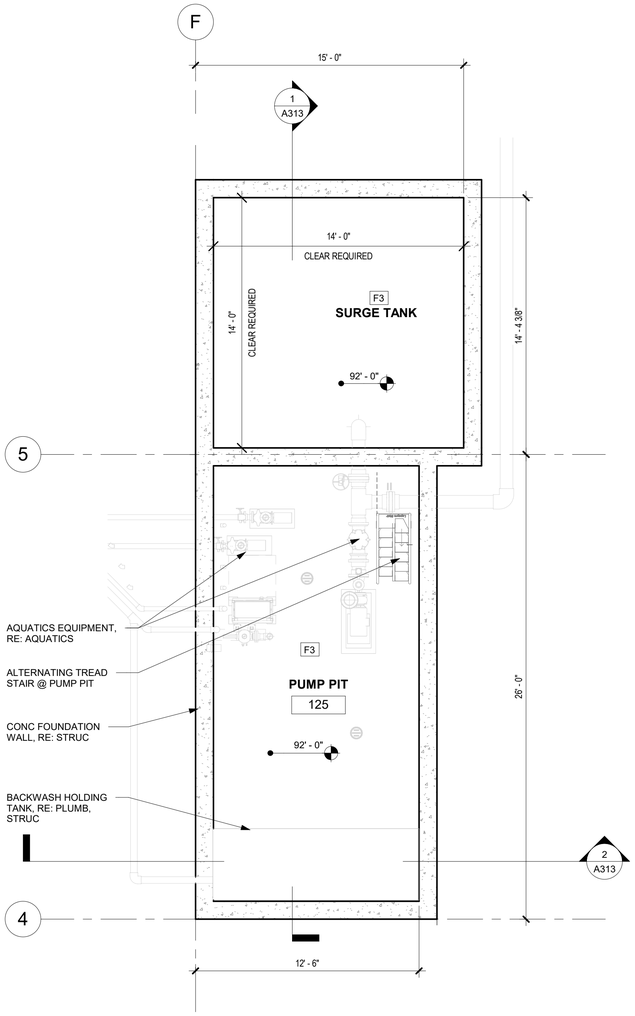

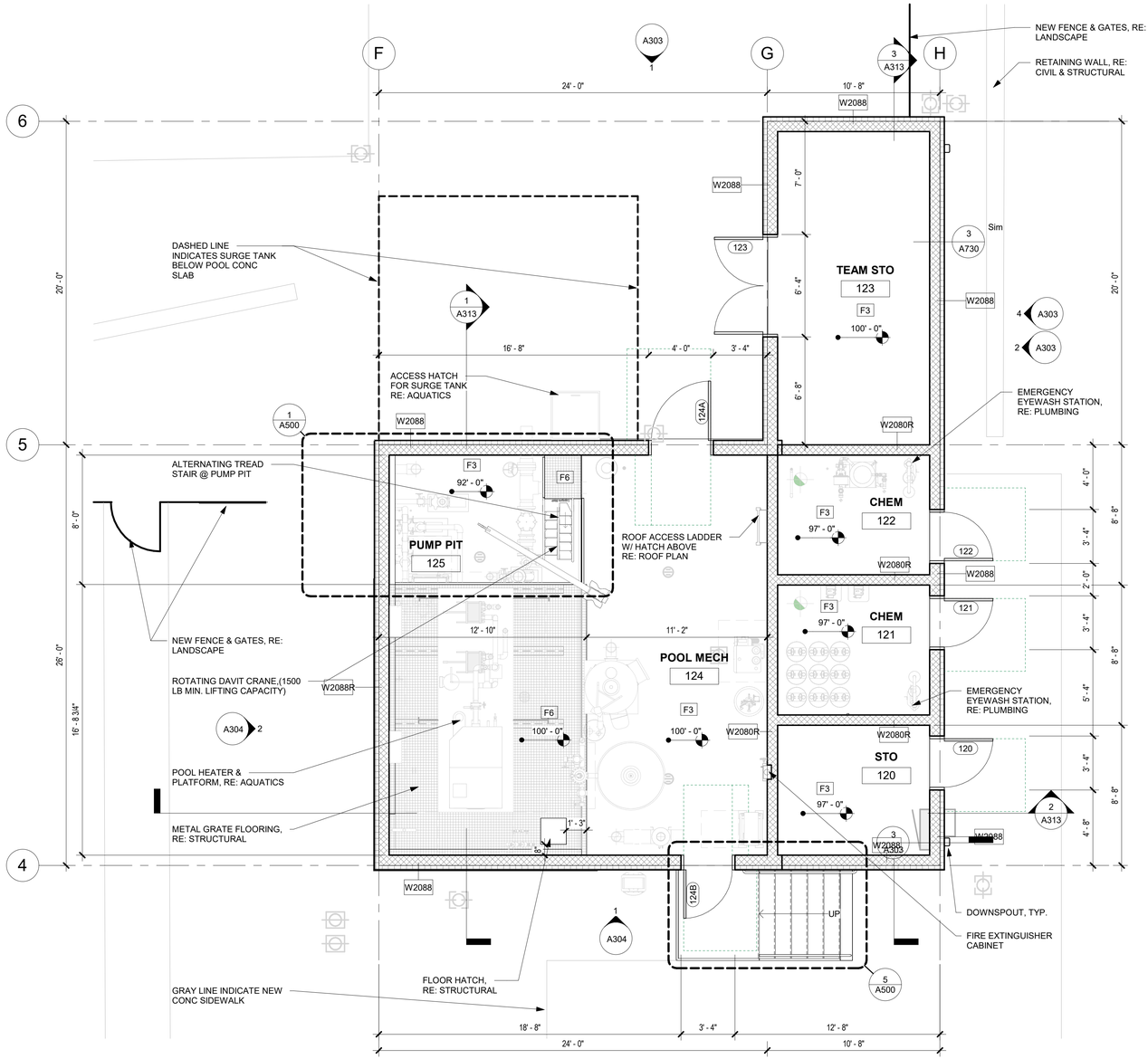

2 A101c PUMP PIT
1/4" = 1'-0"

1 A101c FIRST FLOOR PLAN - AUX. MECH BLDG
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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FIRST FLOOR PLAN - AUX. MECH BLDG

A101c

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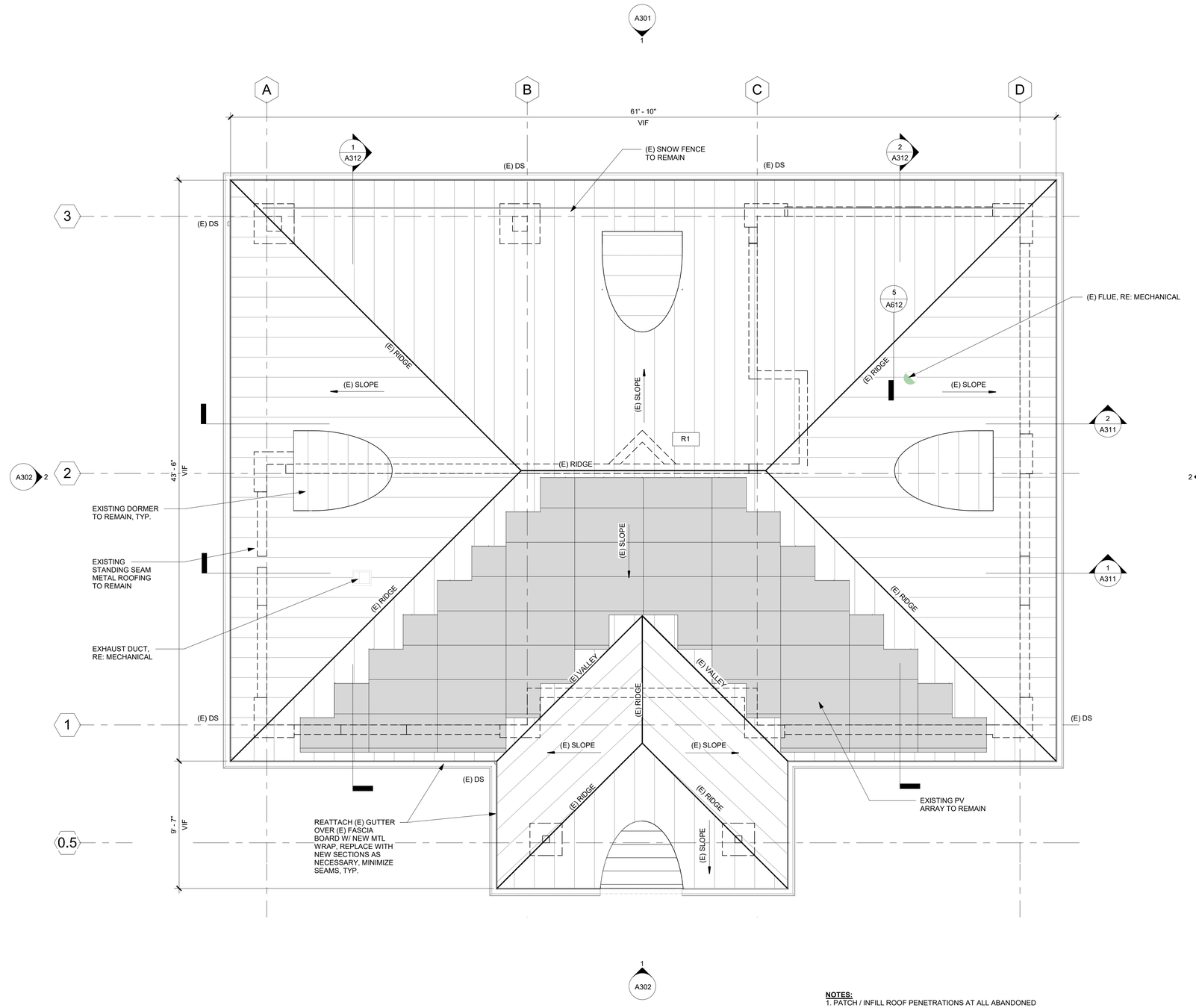

NOTES:
1. PATCH / INFILL ROOF PENETRATIONS AT ALL ABANDONED EXHAUST VENTS, FLUES, ETC. REFER TO MEP PLANS FOR MORE INFO. INSTALL NEW ROOF PANEL TO MATCH (E) WHERE REQUIRED.

1 A102 ROOF PLAN - BATHHOUSE
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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ROOF PLAN - BATHHOUSE

A102

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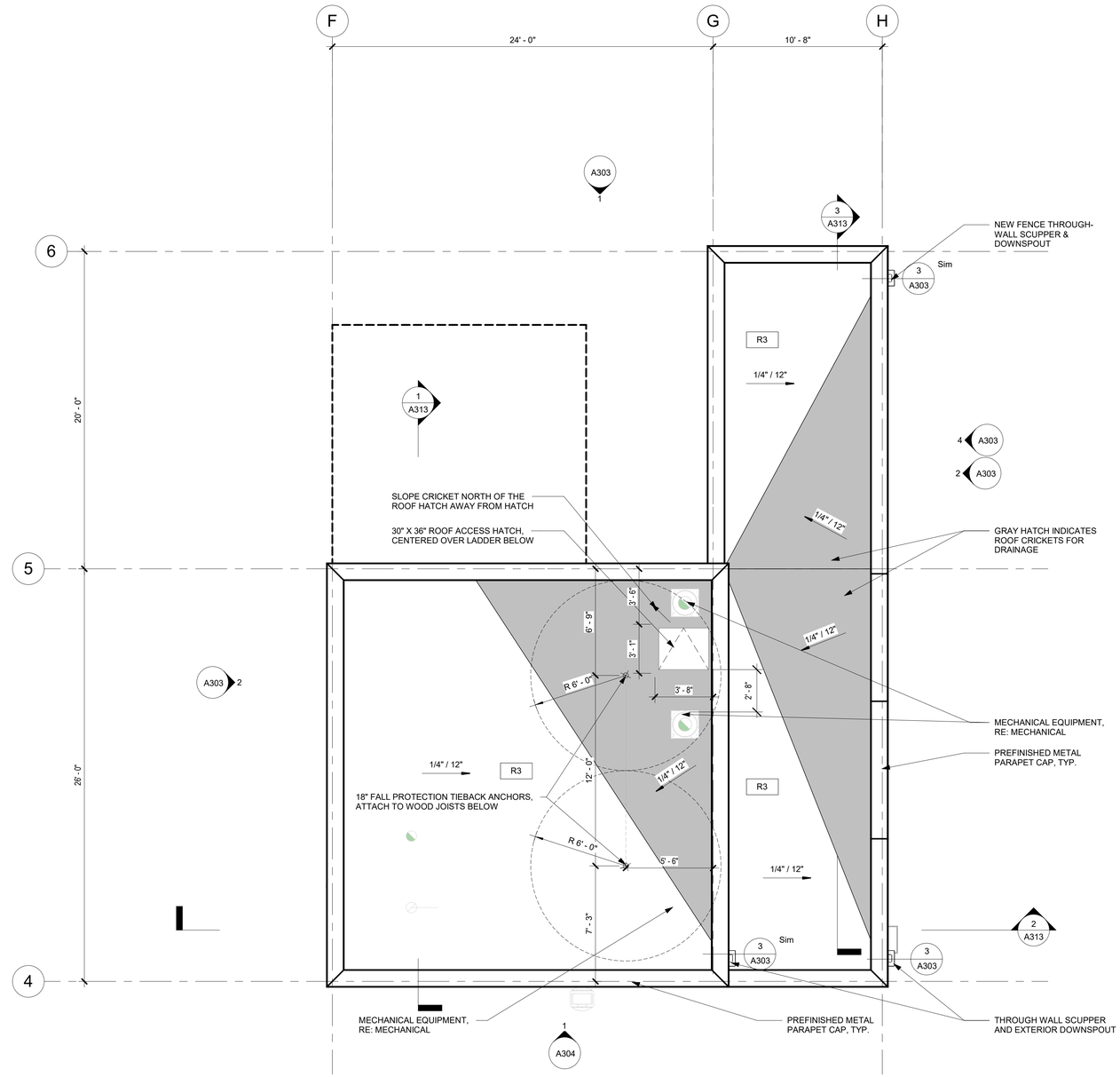

1 A103 ROOF PLAN - AUX. MECH BLDG

1/4" = 1'-0"

0 2" 4" 8"

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ROOF PLAN - AUX. MECH BLDG

A103

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DRAINAGE PLAN GENERAL NOTES:

1. REFER TO A101A AND A101B FOR ADDITIONAL INFORMATION IN THIS AREA
2. WALLS UNDER BENCHES AND LOCKERS ARE DIMENSIONED IN THIS VIEW FOR CLARITY.
3. DIMENSIONS ARE TO FACE OF CMU/STUD, GRIDLINES AND CENTER LINES OF AREA DRAINS AND TRENCH DRAINS
4. FLOOR SLOPES TO BE MAXIMUM 1:48; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MAXIMUM SLOPE WHERE SLOPES ARE INDICATED
5. FLOOR SLOPES TO BE MINIMUM 1:96; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MINIMUM SLOPE WHERE SLOPES ARE INDICATED
6. REFER TO PLUMBING DRAWINGS, ARCHITECTURAL FLOOR PLANS AND SPECIFICATIONS FOR DRAIN TYPES & LOCATIONS.
7. REFER TO SPECIFICATION FOR CONCRETE SLAB FINISH REQUIREMENTS
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS INDICATING DRAIN LOCATIONS, DRAIN HEIGHTS AND FLOOR SLOPES COMPLYING WITH NOTES 4 AND 5 ABOVE, FOR ALL RESTROOMS.
9. CONTRACTOR TO CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN ALL APPROPRIATE SUB-CONTRACTORS, ARCHITECTS AND ENGINEERS FOR SHOP DRAWING REVIEW PRIOR TO INSTALLATION OF FLOOR DRAINS, CONCRETE POOL DECKS AND ASSOCIATED COMPONENTS

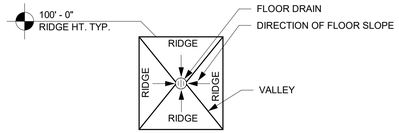
10. ADD ALTERNATE DESIGN INTENT: TO DEMOLISH THE EXISTING CONCRETE DOWN TO THE EXISTING METAL DECK. THE CONTRACTOR IS THEN TO POUR A NEW CONCRETE PAD IN PLACE, AND SLOPE THE FLOOR TO THE NEW DRAINS TO MATCH THE REQUIRED SLOPES MENTIONED ABOVE. DESIGN INTENT IS TO PREVENT ANY STANDING WATER.
11. REFER TO SHEET A401 FOR SHOWER PAN DETAIL.

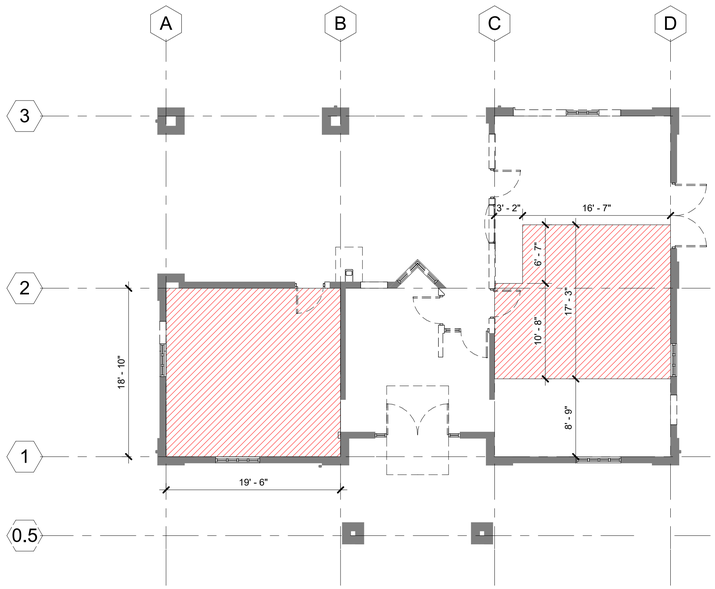
SLAB TYPE LEGEND

EXISTING SLAB TO BE REMOVED. SAWCUT, REMOVE CONC DOWN TO METAL DECK. METAL DECK TO REMAIN

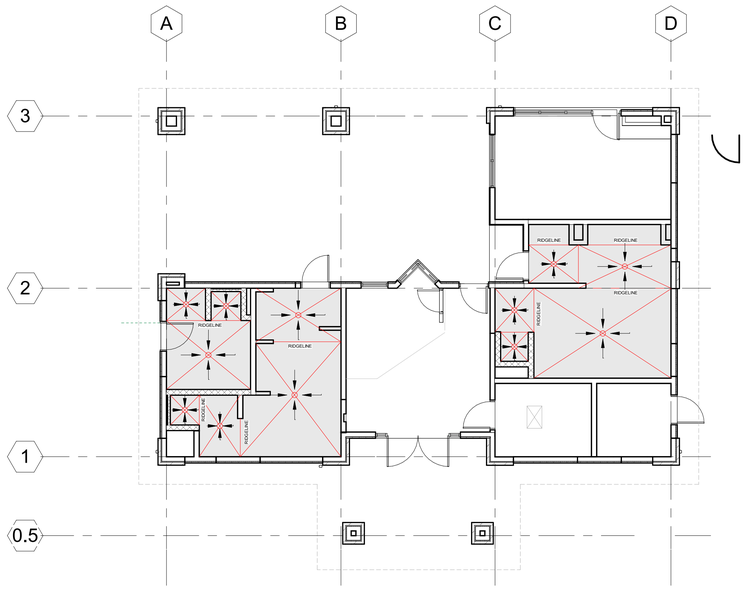
NEW SLOPED SLAB ON GRADE

DRAINAGE PLAN SYMBOL DIAGRAM





1 A150 FIRST FLOOR PLAN - SLAB DEMO PLAN (ADD ALTERNATE)
1/8" = 1'-0"



2 A150 FIRST FLOOR PLAN - NEW SLAB DRAINAGE PLAN (ADD ALTERNATE)
1/8" = 1'-0"

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ADD ALTERNATE - NEW SLAB & DRAINAGE PLAN

A150

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RCP LEGEND

WALL EXTENDS TO B.O. DECK ABOVE

(E) CEILING

NEW GYP BD CEILING

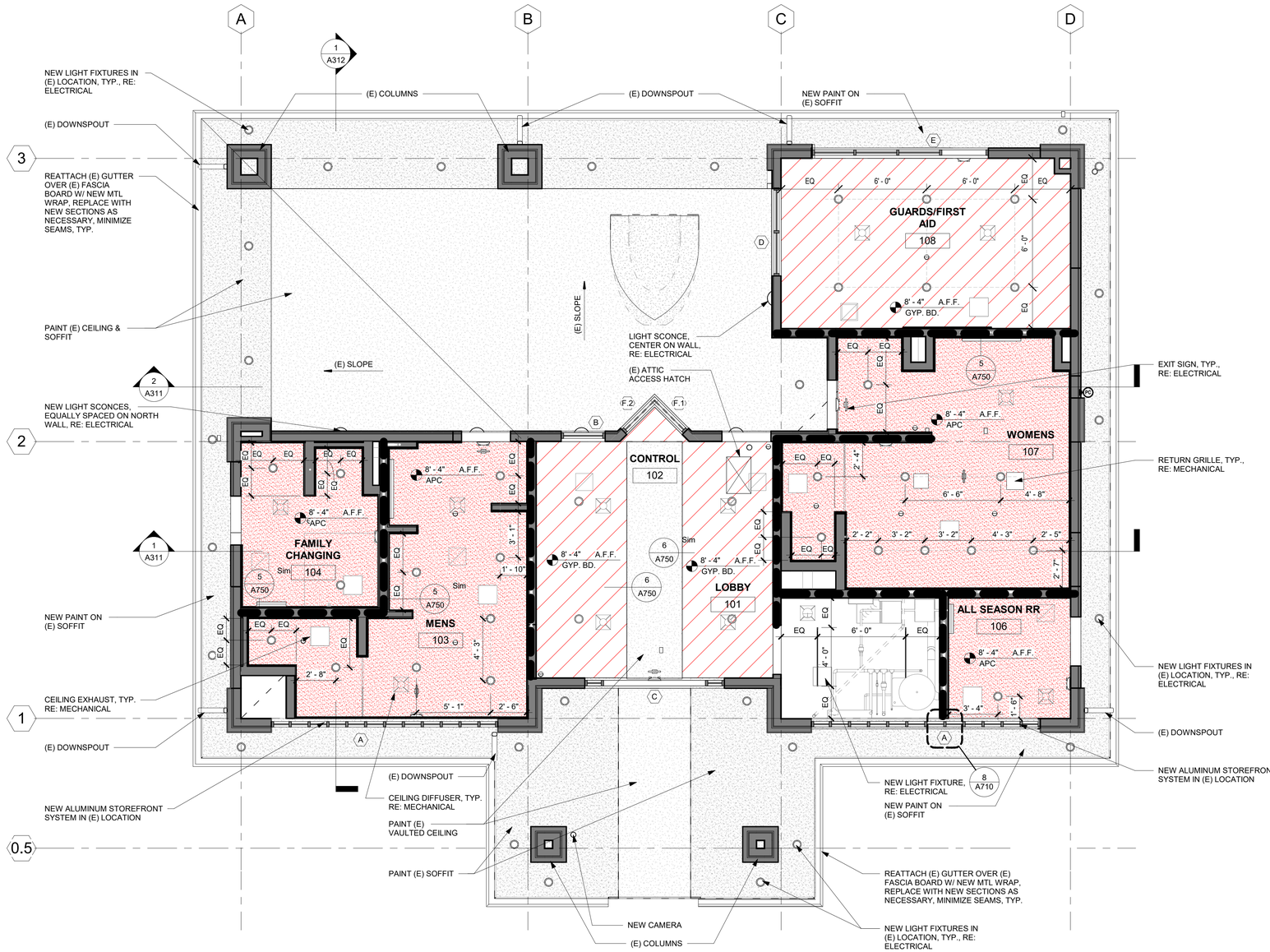
NEW APC CEILING

EXPOSED STRUCTURE

SEE MECHANICAL AND ELECTRICAL LEGENDS FOR ADDITIONAL SYMBOLS

RCP GENERAL NOTES

1. ALL CEILING ELEVATIONS LISTED AS A.F.F. DIMENSIONS. SEE INTERIOR ELEVATIONS FOR CLARIFICATION IF NECESSARY.
2. REFER TO WALL TYPES LISTED ON G020. THOSE WALLS, DESIGNATED ON PLANS AND WITHIN DETAILS MAY BE INTENDED TO CONTAIN SOME SOUND, WATER VAPOR, SMOKE AND /OR FIRE ATTENUATION.
3. ALL WALLS SHALL TERMINATE 6" ABOVE CEILING ELEVATION UNLESS OTHERWISE NOTED.
4. PATCH AND REPAIR DAMAGED SOFFIT AREAS FOR CONSISTENT APPEARANCE THROUGHOUT.



NOTES:
1. REFER TO ELEC PLANS FOR INFO ON NEW LIGHTING.
2. REFER TO MECH AND PLUMB DRAWINGS FOR MORE INFO.

1 A211 REFLECTED CEILING PLAN - BATHHOUSE
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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REFLECTED CEILING PLAN - BATHHOUSE

A211

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RCP LEGEND

WALL EXTENDS TO B.O. DECK ABOVE

(E) CEILING

NEW GYP BD CEILING

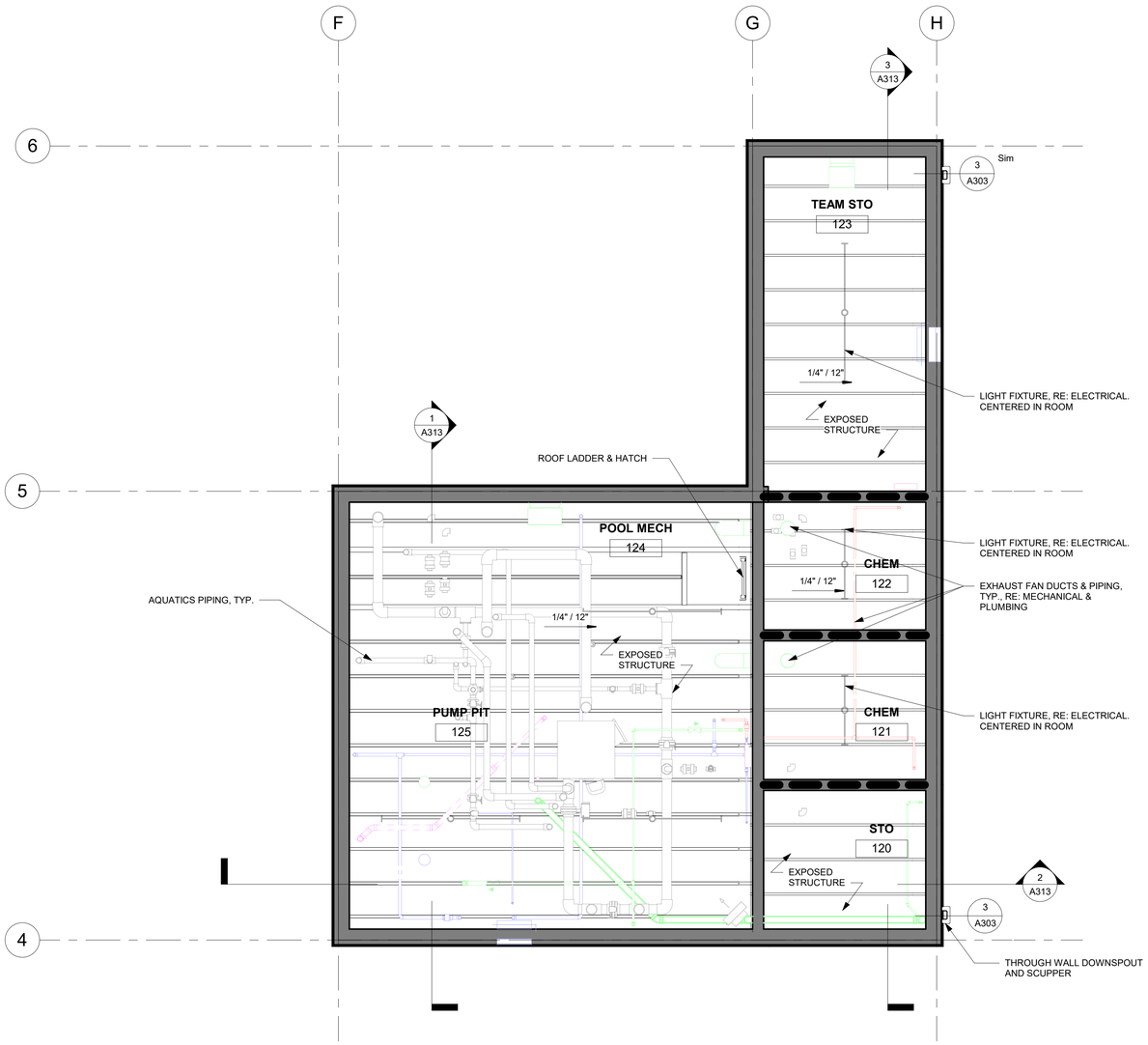
NEW APC CEILING

EXPOSED STRUCTURE

SEE MECHANICAL AND ELECTRICAL LEGENDS FOR ADDITIONAL SYMBOLS

RCP GENERAL NOTES

1. ALL CEILING ELEVATIONS LISTED AS A.F.F. DIMENSIONS. SEE INTERIOR ELEVATIONS FOR CLARIFICATION IF NECESSARY.
2. REFER TO WALL TYPES LISTED ON G020. THOSE WALLS, DESIGNATED ON PLANS AND WITHIN DETAILS MAY BE INTENDED TO CONTAIN SOME SOUND, WATER VAPOR, SMOKE AND /OR FIRE ATTENUATION.
3. ALL WALLS SHALL TERMINATE 6" ABOVE CEILING ELEVATION UNLESS OTHERWISE NOTED.
4. PATCH AND REPAIR DAMAGED SOFFIT AREAS FOR CONSISTENT APPEARANCE THROUGHOUT.



1 A212 REFLECTED CEILING PLAN - AUX. MECH BLDG
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

BARKER RINKER SEACAT ARCHITECTURE

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REFLECTED CEILING PLAN - AUX. MECH BLDG

A212

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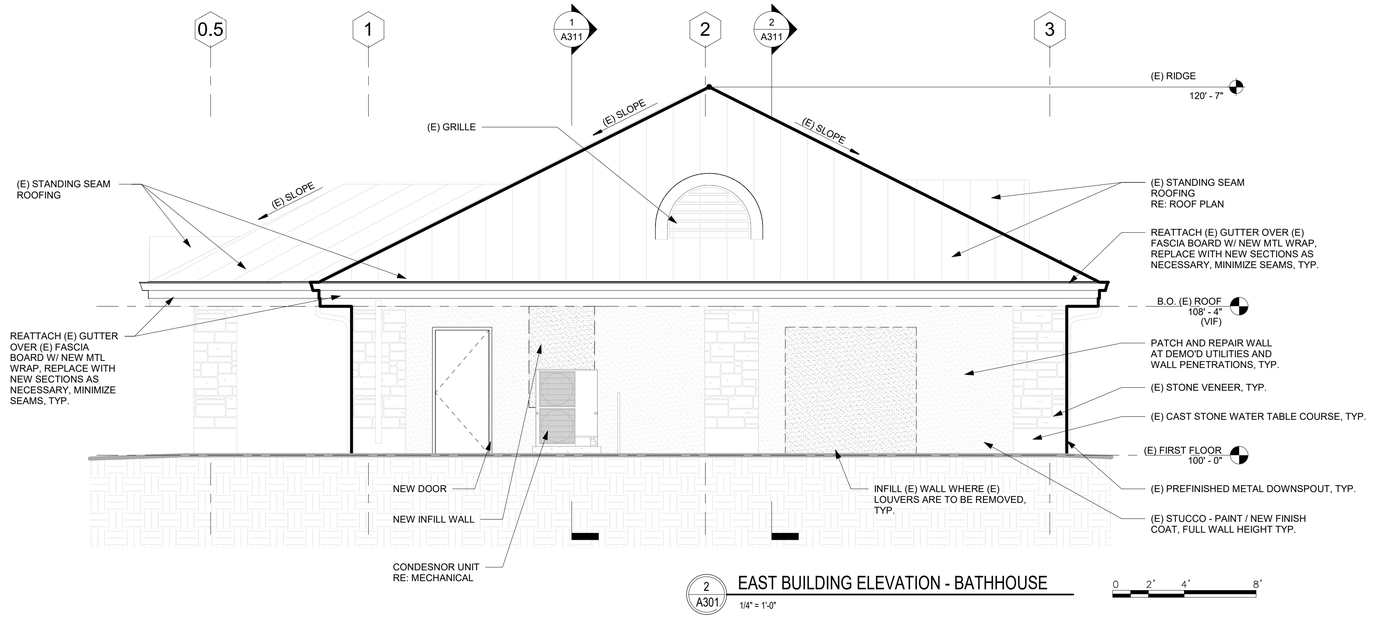
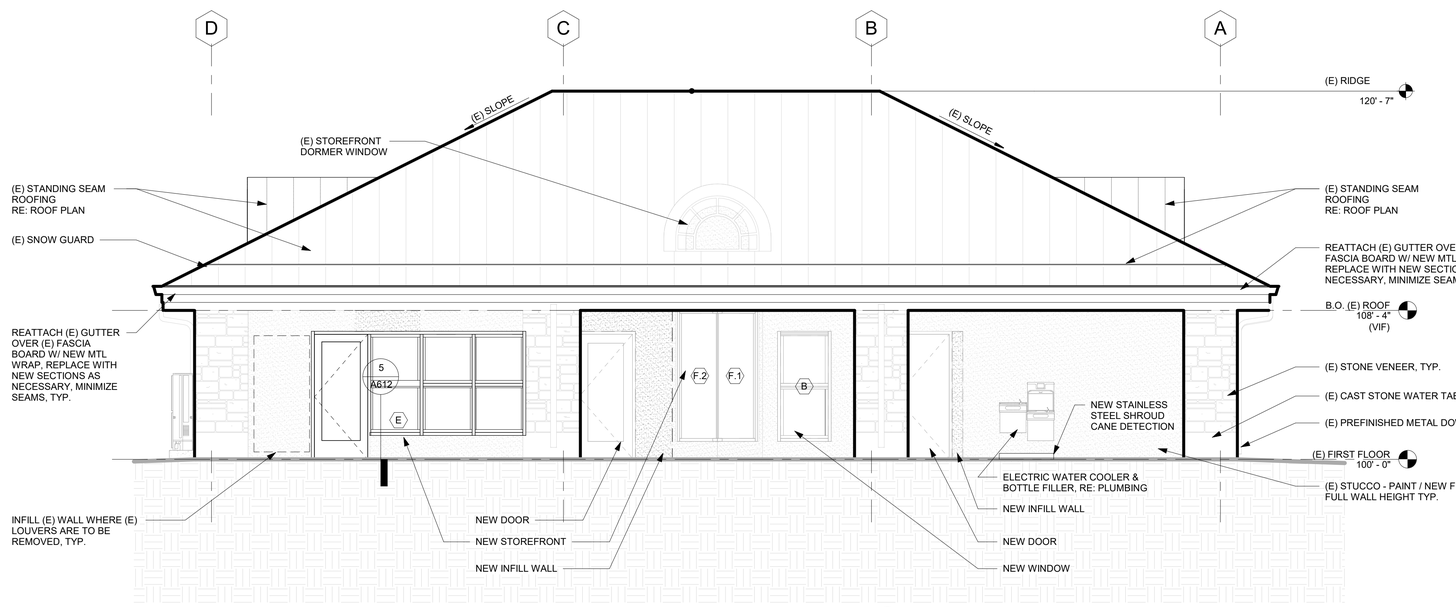


2 A301 EAST BUILDING ELEVATION - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'



1 A301 NORTH BUILDING ELEVATION - BATHHOUSE

1/4" = 1'-0"

0 2' 4' 8'

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BUILDING ELEVATIONS - BATHHOUSE

A301

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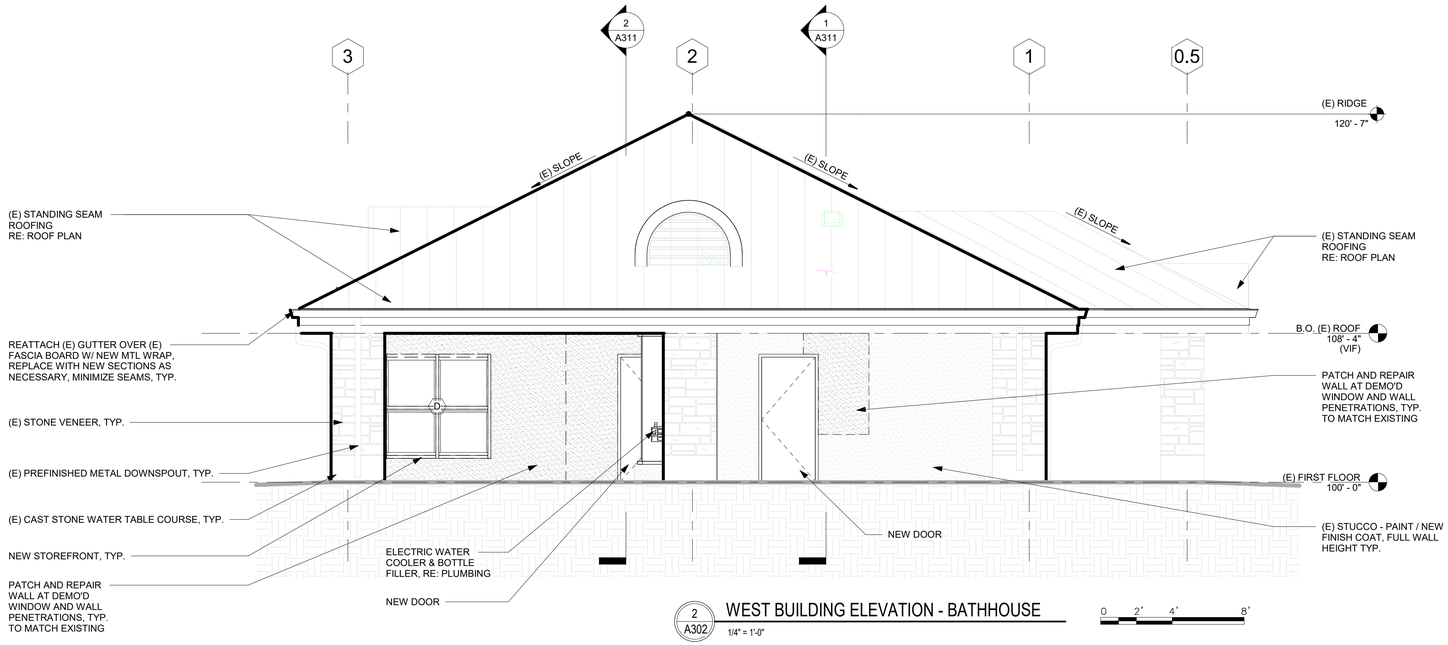

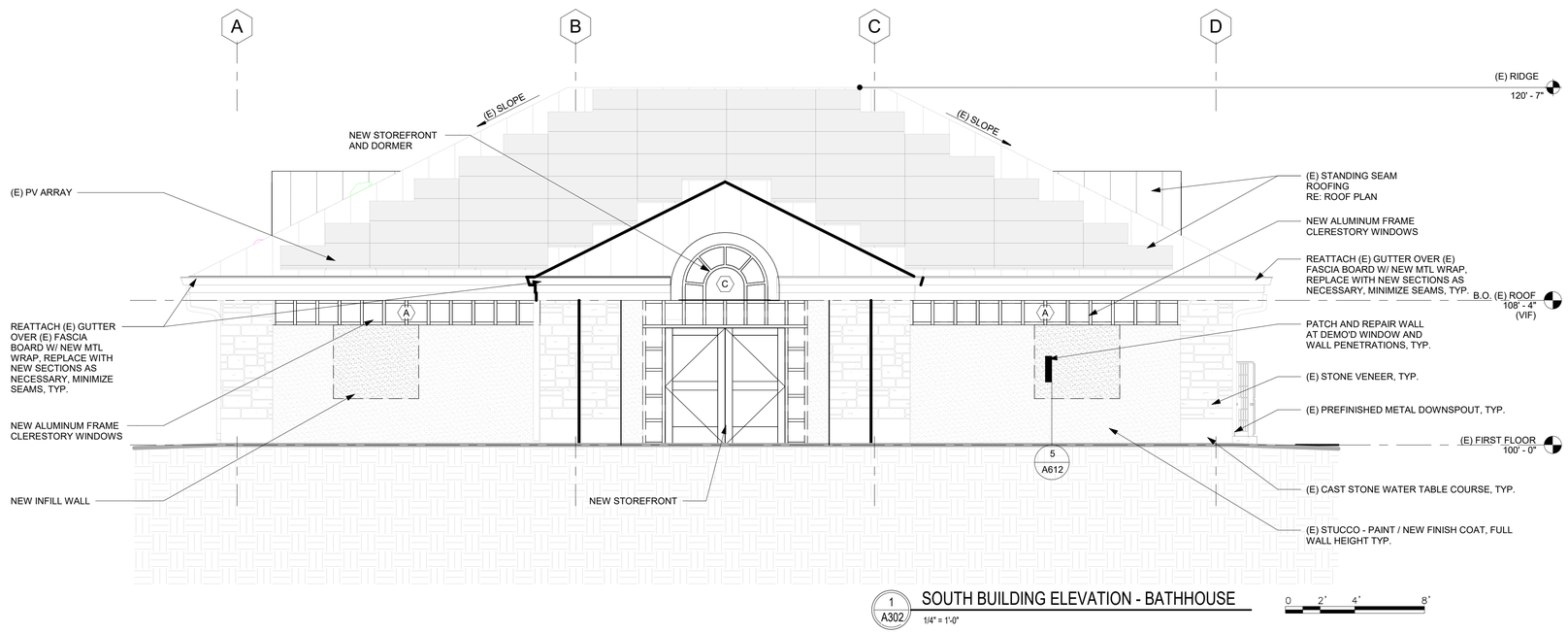

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BUILDING ELEVATIONS - BATHHOUSE

A302

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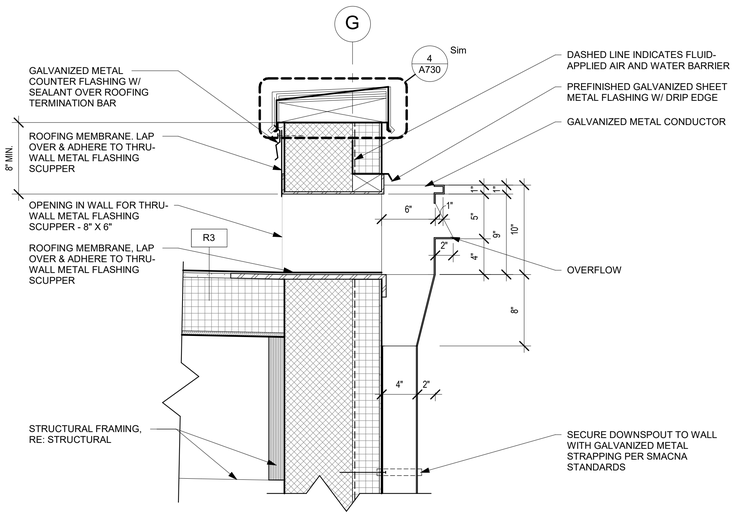
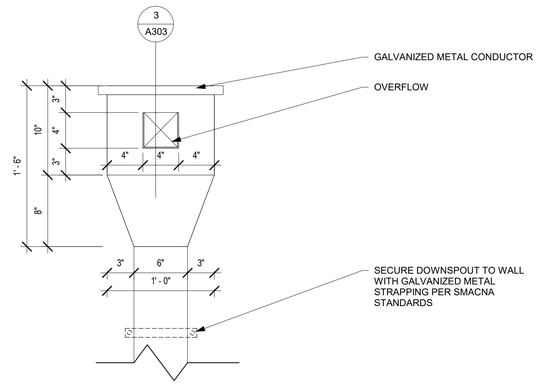
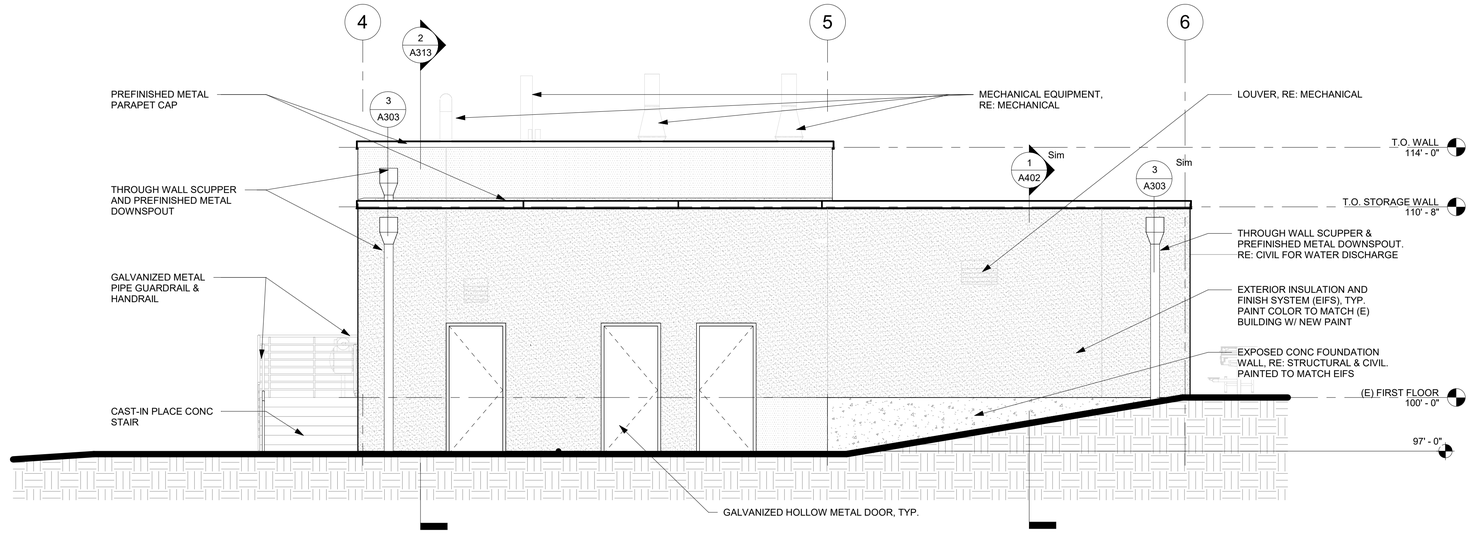




3 A303 SECTION DTL - THRU WALL SCUPPER & DOWNSPOUT

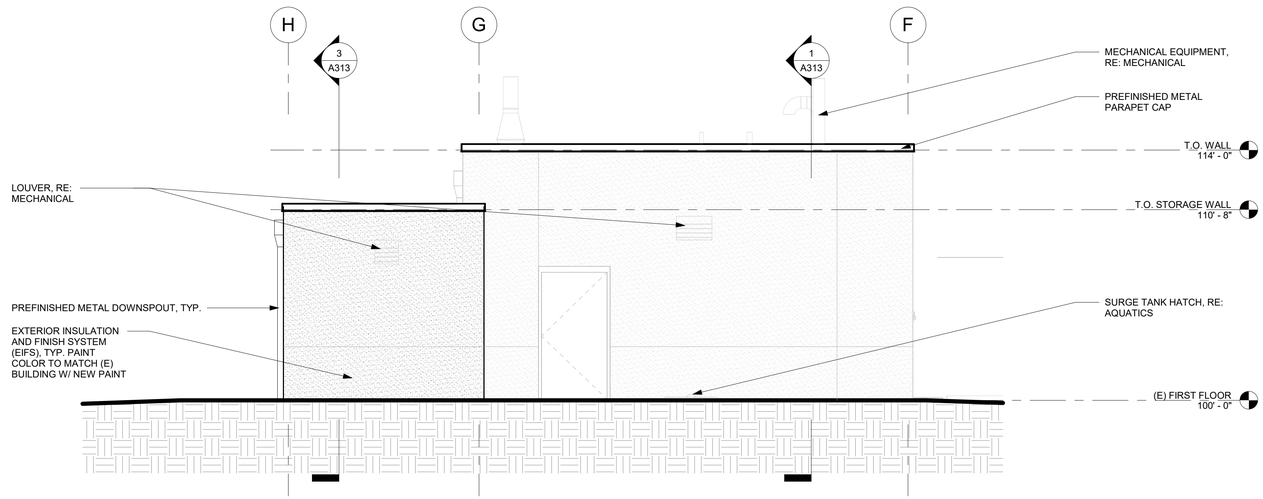
1 1/2" = 1'-0"



2 A303 EAST BUILDING ELEVATION - AUX. MECH BLDG

1/4" = 1'-0"

0 2' 4' 8'



1 A303 NORTH BUILDING ELEVATION - AUX. MECH BLDG

1/4" = 1'-0"

0 2' 4' 8'

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BUILDING ELEVATIONS - AUX. MECH BLDG

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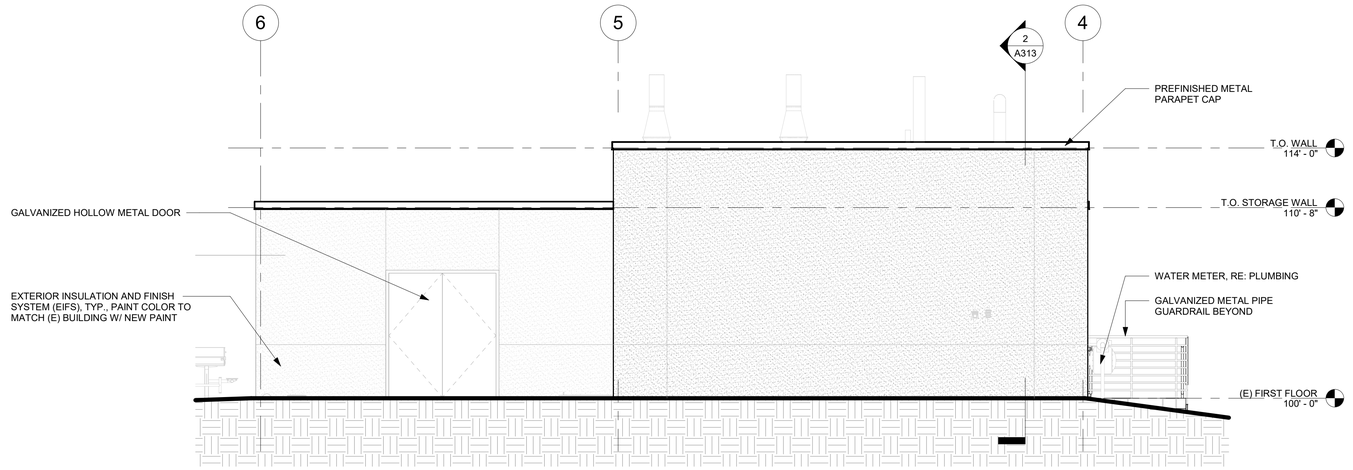
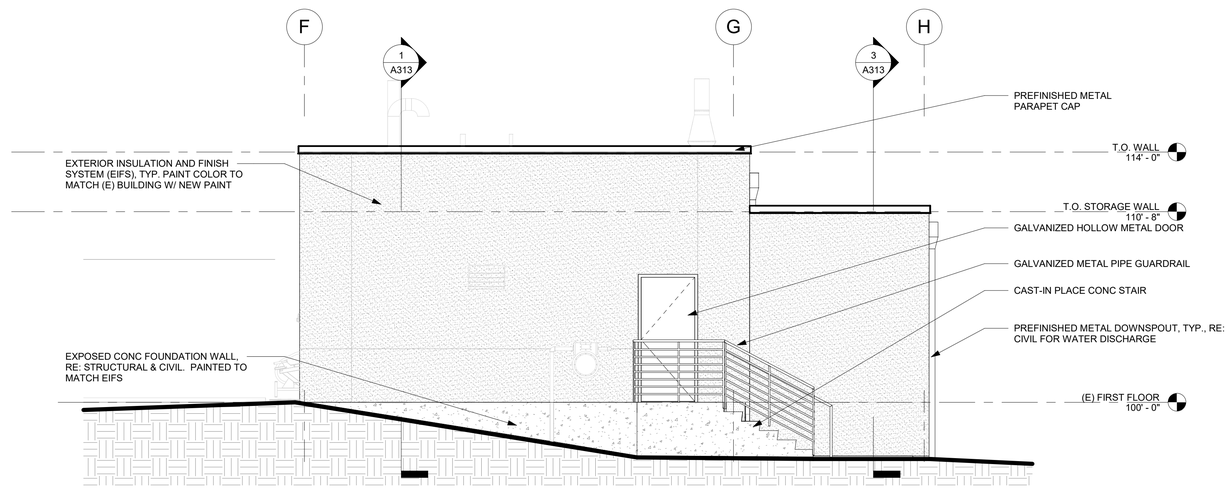


2 A304 WEST BUILDING ELEVATION - AUX. MECH BLDG

1/4" = 1'-0"

0 2' 4' 8'



1 A304 SOUTH BUILDING ELEVATION - AUX. MECH BLDG

1/4" = 1'-0"

0 2' 4' 8'

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BUILDING ELEVATIONS - AUX. MECH BLDG

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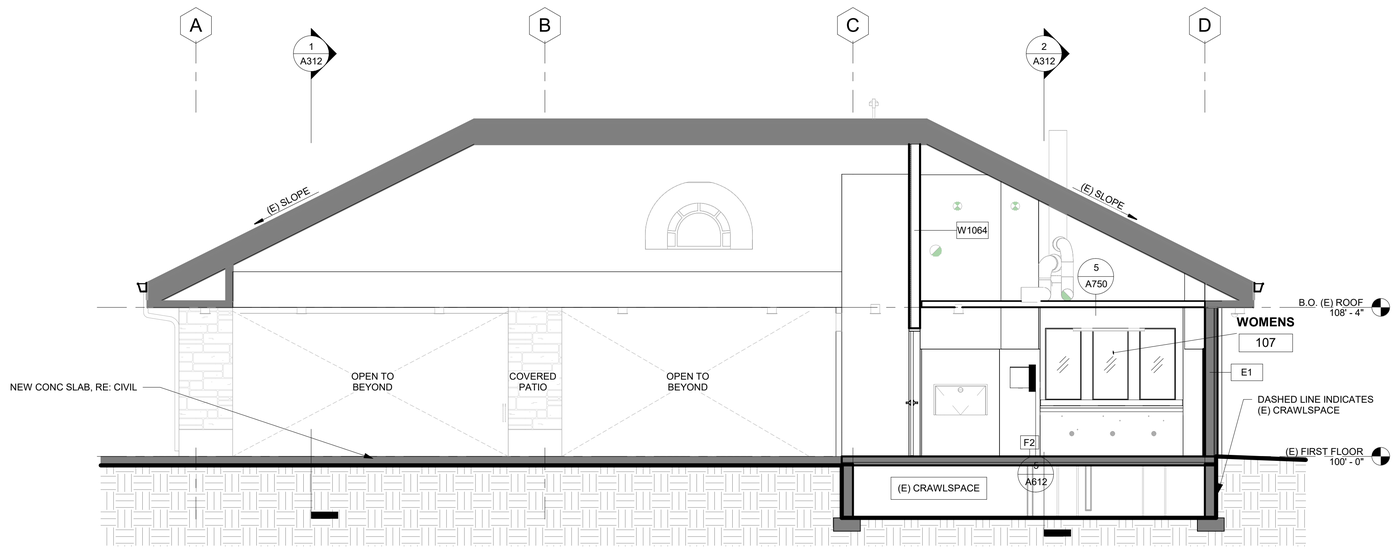
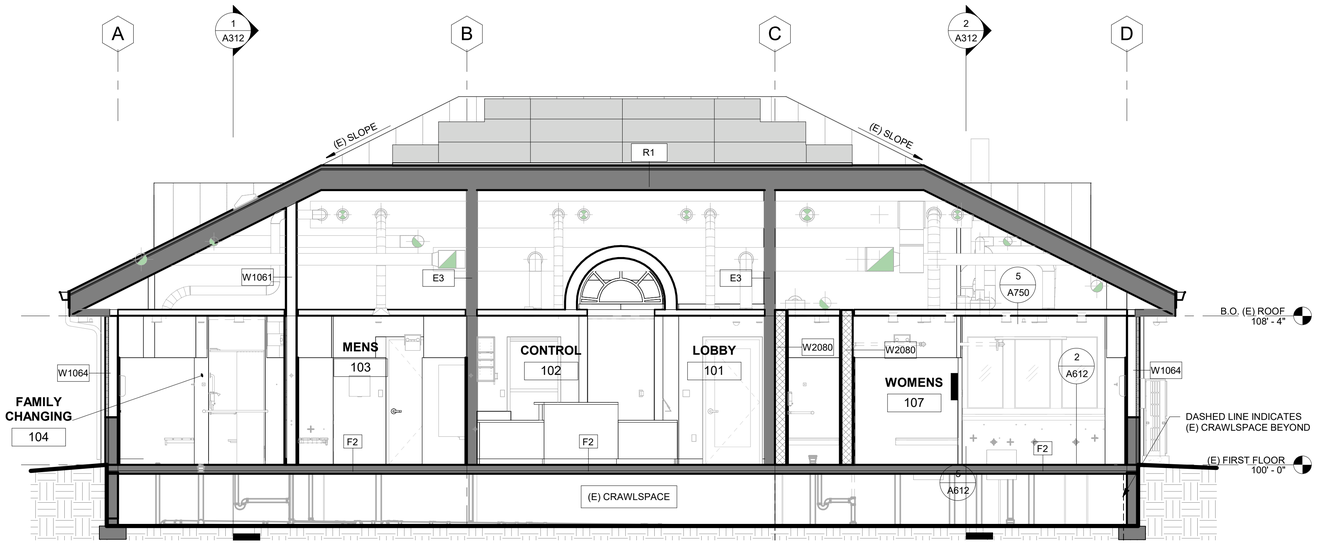


2 A311 BUILDING SECTION E/W - WOMENS & (E) PATIO

1/4" = 1'-0"



1 A311 BUILDING SECTION E/W - LOCKER ROOMS & LOBBY

1/4" = 1'-0"

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BUILDING SECTIONS - BATHHOUSE

A311

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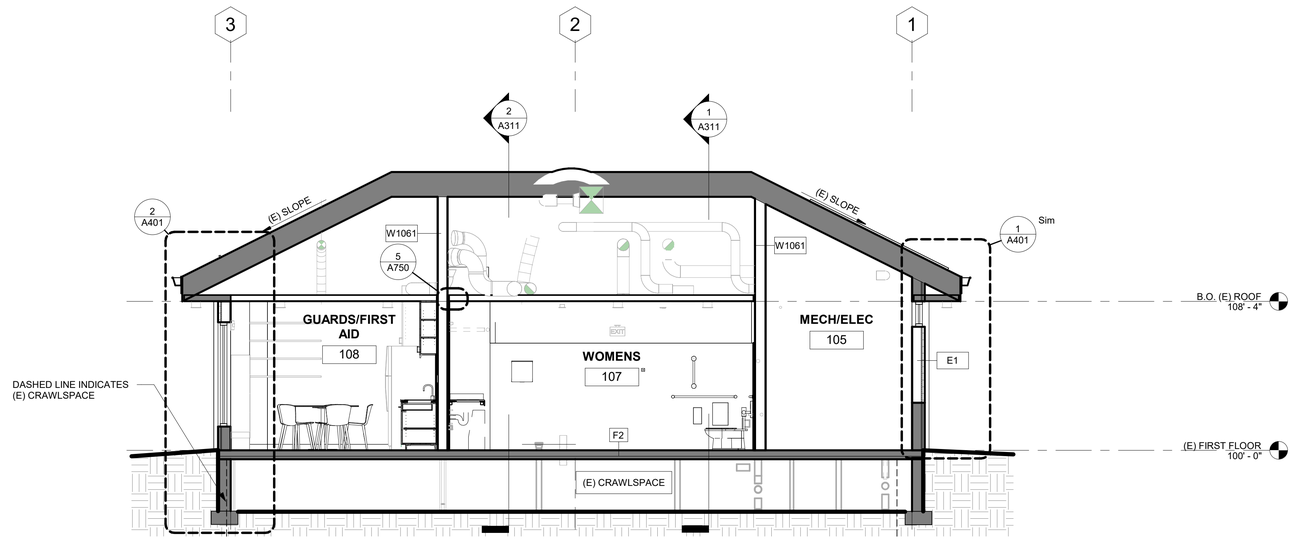
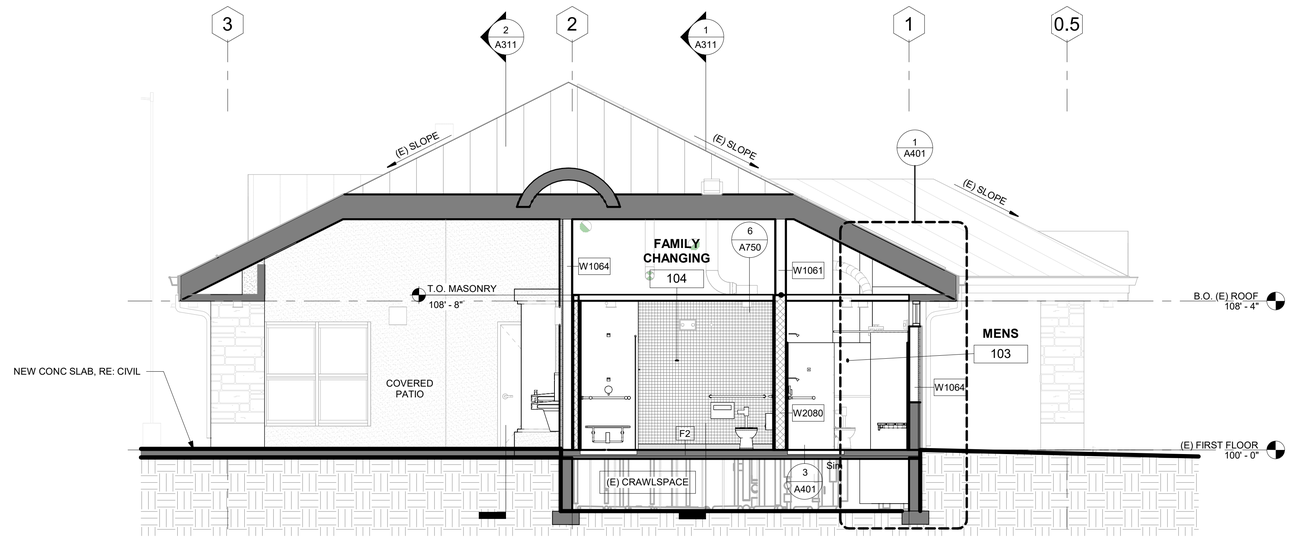


2 A312 BUILDING SECTION N/S - MECH & WOMENS & GUARDS

1/4" = 1'-0"



1 A312 BUILDING SECTION N/S - FAMILY CHANGING & (E) PATIO

1/4" = 1'-0"

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KEITH HAYES
29023
LICENSED ARCHITECT

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BUILDING SECTIONS - BATHHOUSE

A312

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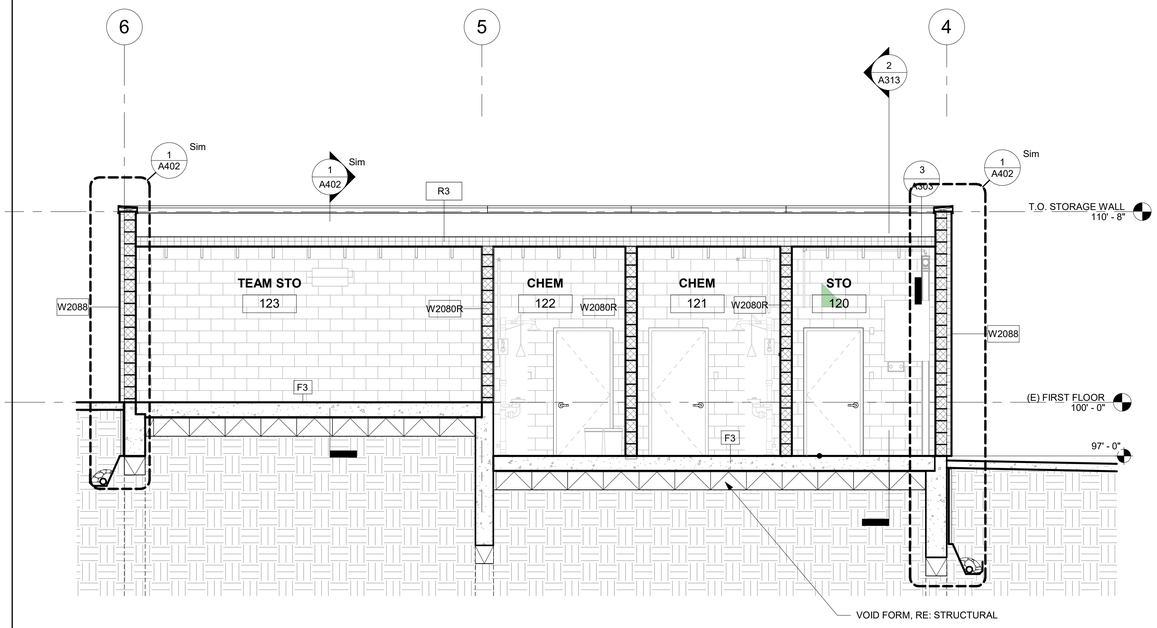
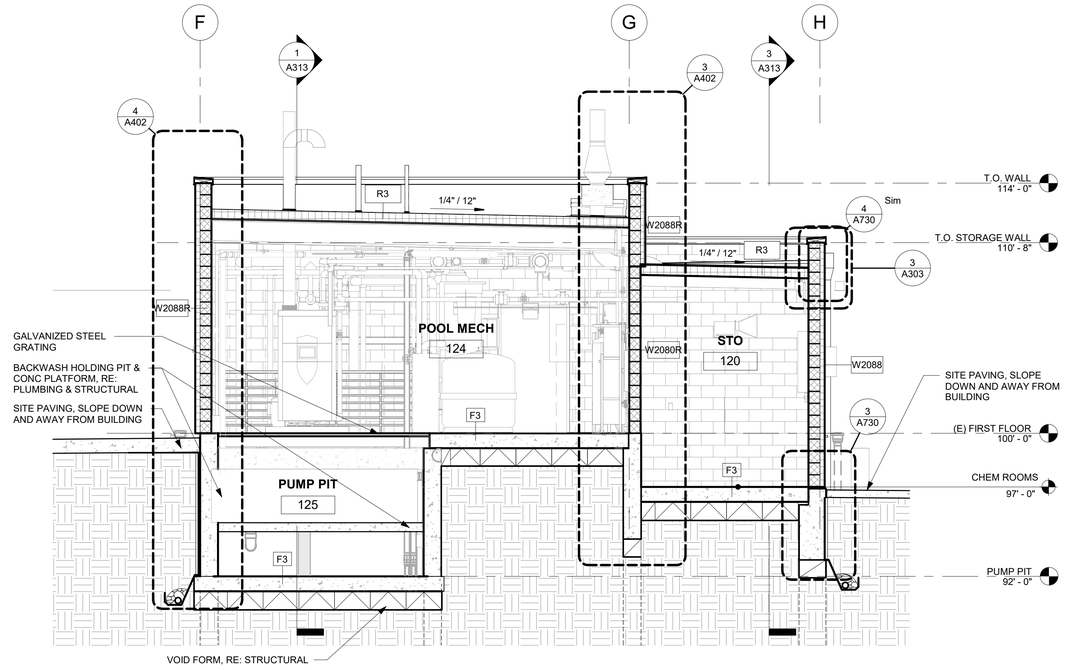
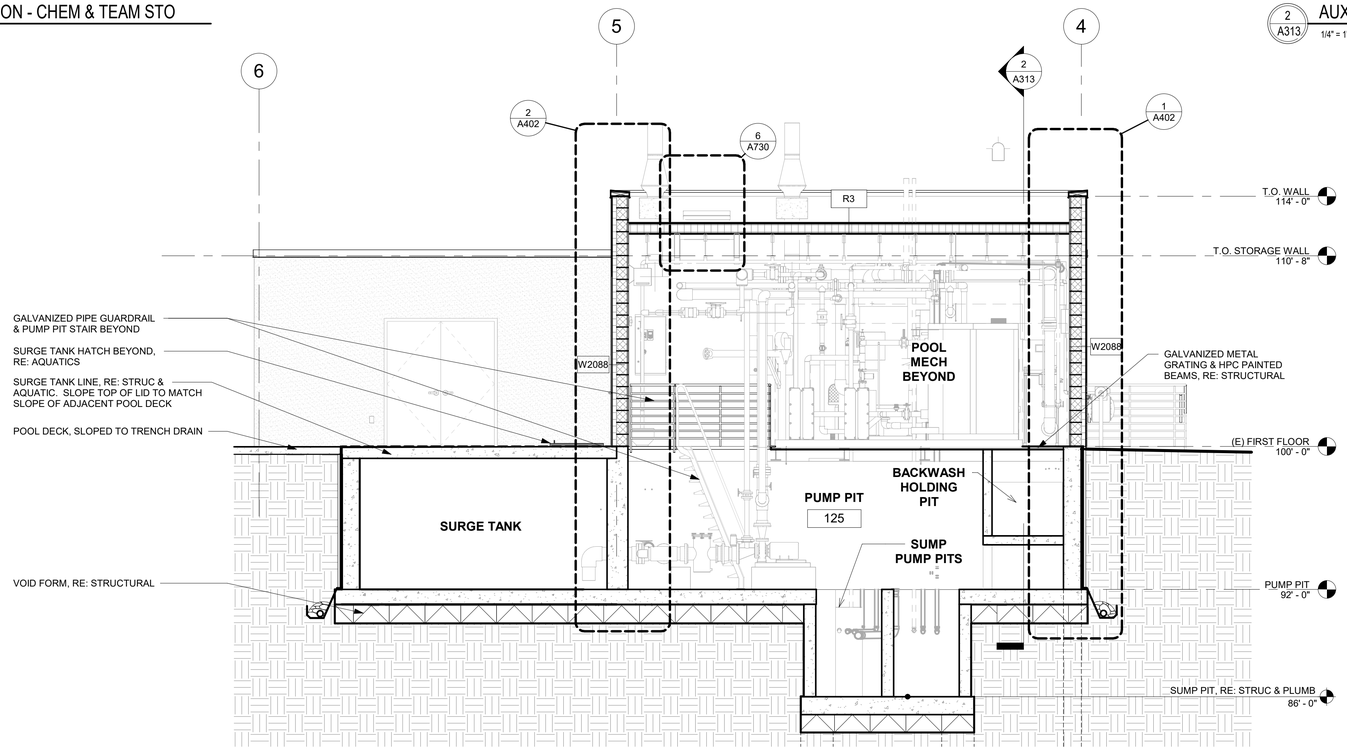


3 A313 AUX. BUILDING SECTION - CHEM & TEAM STO
1/4" = 1'-0"



2 A313 AUX. BUILDING SECTION - PUMP PIT & STO
1/4" = 1'-0"



1 A313 AUX. BUILDING SECTION - PUMP PIT & SURGE TANK
1/4" = 1'-0"

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BUILDING SECTIONS - AUX. MECH BLDG

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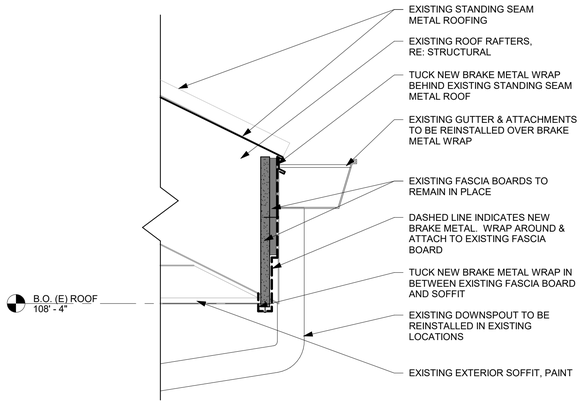
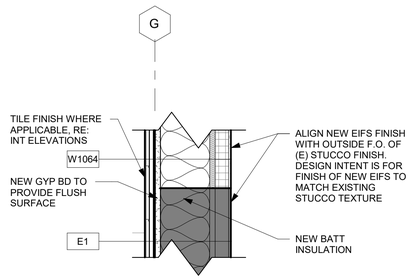


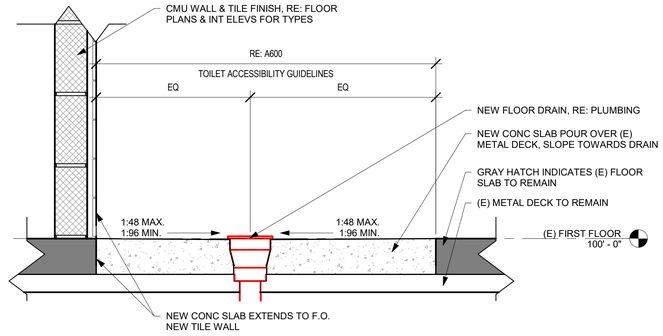
5 A401 DTL SECTION - NEW WRAP @ (E) GUTTER & FASCIA

1 1/2" = 1'-0"



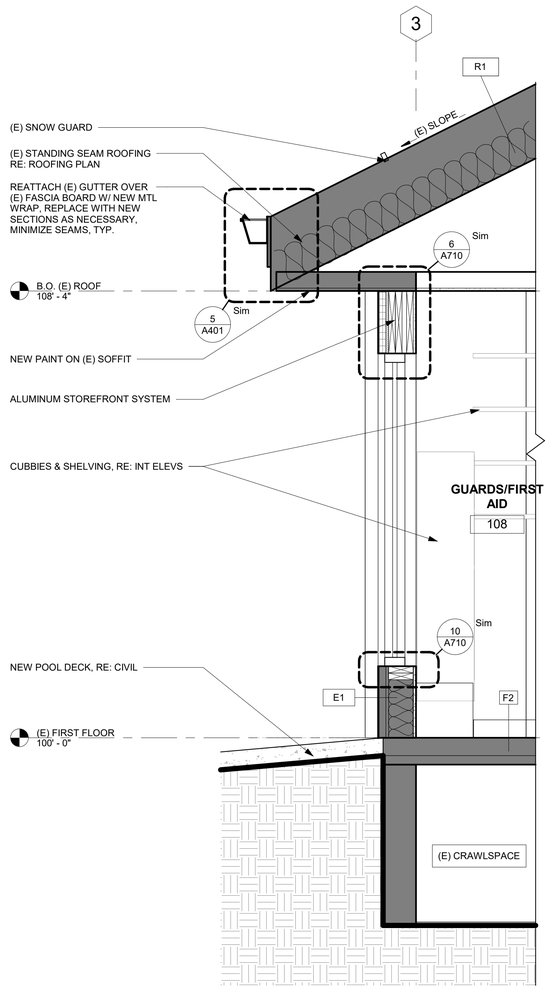
4 A401 DTL SECTION - NEW INFILL & (E) WALL

1 1/2" = 1'-0"



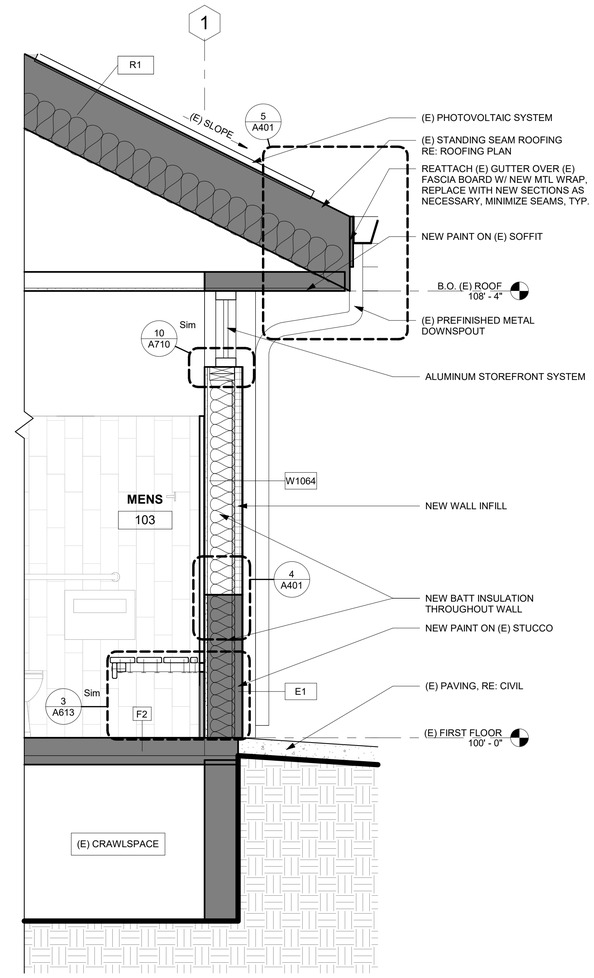
3 A401 DTL SECTION - NEW SHOWER PAN

1 1/2" = 1'-0"



2 A401 WALL SECTION - NEW STOREFRONT

3/4" = 1'-0"



1 A401 WALL SECTION - NEW WALL & CLERESTORY WINDOW

3/4" = 1'-0"

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WALL & DETAIL SECTIONS - BATHHOUSE

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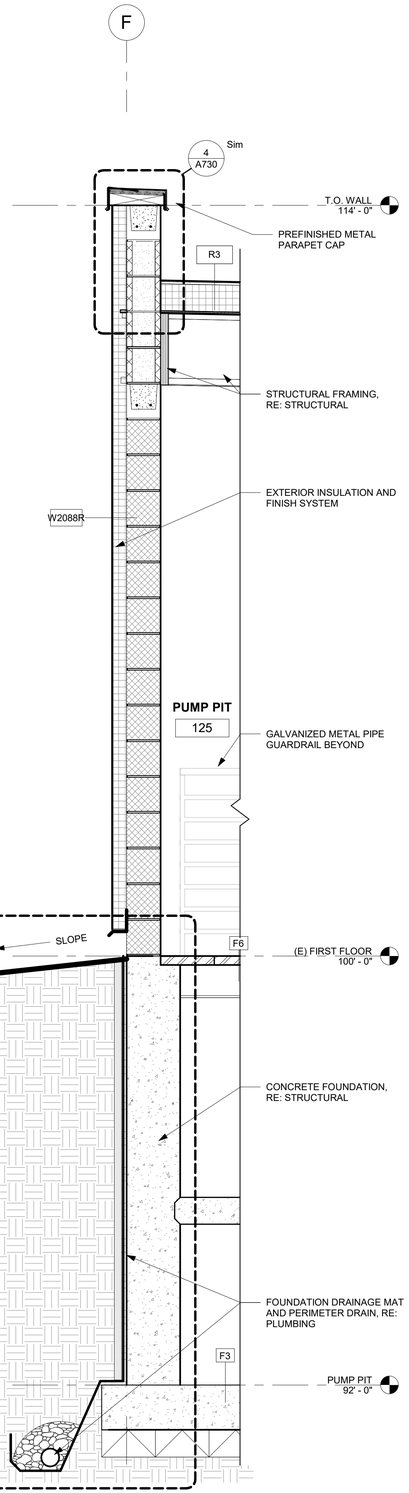
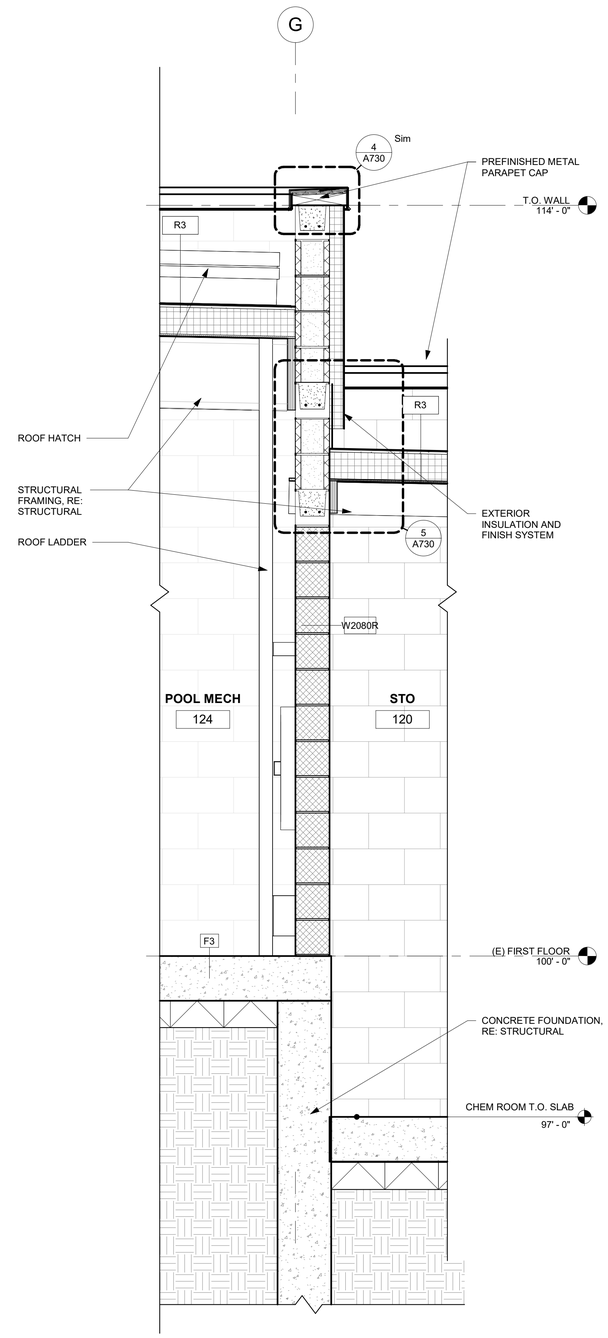
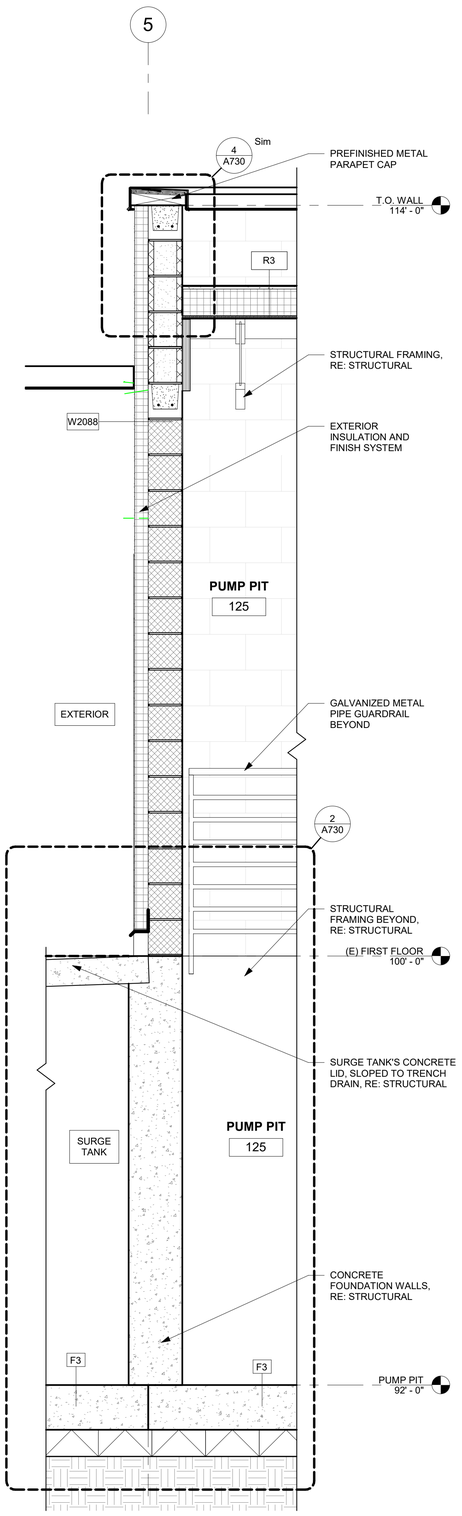


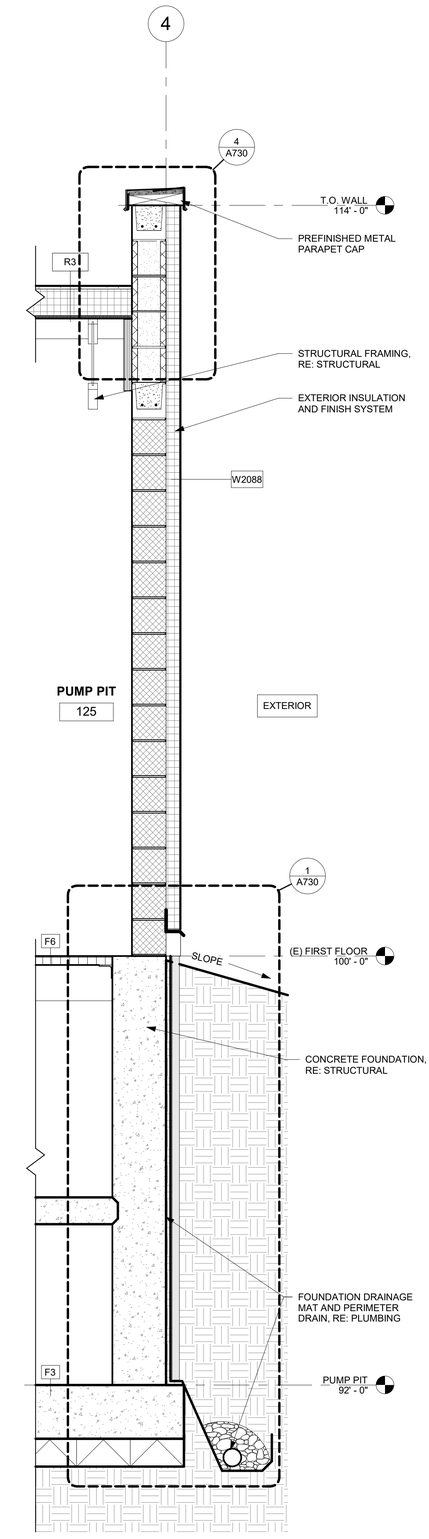
4 A402 WALL SECTION - INT PUMP PIT WEST WALL
3/4" = 1'-0"



3 A402 WALL SECTION - POOL MECH & CHEM/STO WALL
3/4" = 1'-0"



2 A402 WALL SECTION - POOL MECH/PUMP PIT NORTH WALL
3/4" = 1'-0"



1 A402 WALL SECTION - POOL MECH/PUMP PIT SOUTH WALL
3/4" = 1'-0"

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WALL SECTIONS - AUX. MECH BLDG

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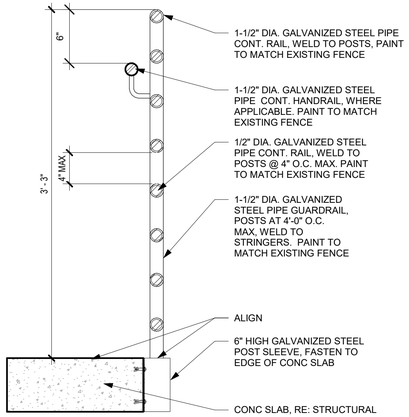
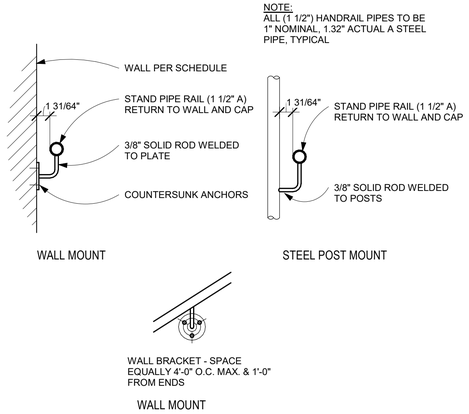


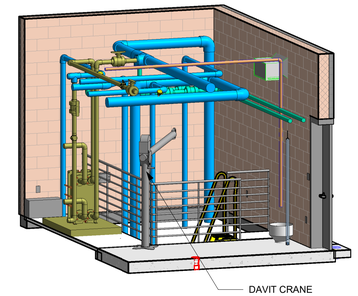
7 A500 GUARDRAIL W/ HANDRAIL @ CONC STAIR

1 1/2" = 1'-0"



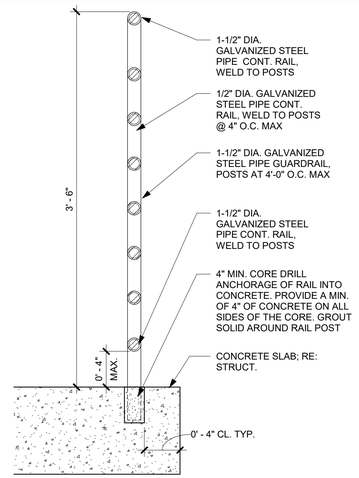
8 A500 TYPICAL HANDRAIL AT WALL DETAIL

1 1/2" = 1'-0"



9 A500 Davit Crane

3D VIEW FOR REFERENCE ONLY



4 A500 GUARDRAIL @ CONC.

1 1/2" = 1'-0"

6 A500 SECTION - POOL MECHANICAL EXIT STAIR

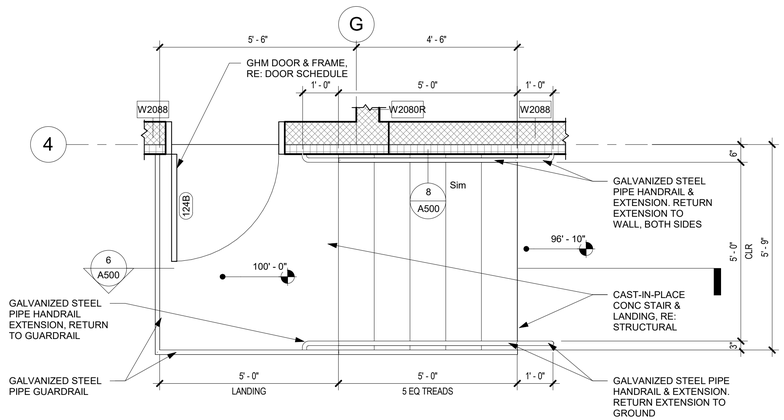
1/2" = 1'-0"

3 A500 REMOVEABLE GUARDRAIL @ STEEL BAR GRATING

1 1/2" = 1'-0"

2 A500 GUARDRAIL W/ HANDRAIL @ STEEL BAR GRATING

1 1/2" = 1'-0"



5 A500 POOL MECHANICAL EXTERIOR STAIR PLAN

1/2" = 1'-0"

F

1 A500 PUMP PIT STAIR AND GUARDRAIL PLAN

1/2" = 1'-0"

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STAIR AND GUARDRAIL DETAILS

A500

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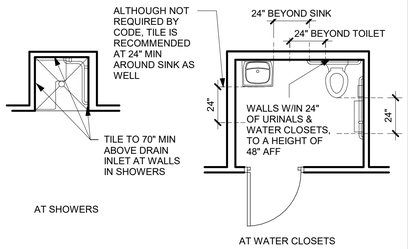
TILE MINIMUM REQUIREMENTS



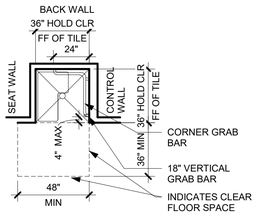
MINIMUM TILE AREAS REQUIRED BY CODE

** REFER TO INTERIOR DRAWINGS FOR ALL TILE LOCATIONS

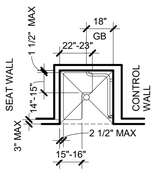
ACCESSORY NOTES:

1. NOT ALL ITEMS ON VERTICAL ACCESSORY & FIXTURE LOCATIONS DRAWING WILL BE USED. RE: PLANS, ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ITEMS USED.
2. ☐ ACCESSORY INDICATOR.
3. REFER TO PLAN, INTERIOR ELEVATIONS AND VERTICAL ACCESSORY AND FIXTURE LOCATIONS DRAWINGS TO COORDINATE ACCESSORY AND FIXTURE LOCATIONS.
4. REFER TO VERTICAL ACCESSORY AND FIXTURE LOCATIONS & TOILET ACCESSIBILITY GUIDELINES DRAWINGS FOR MOUNTING HEIGHTS AND NOTES.
5. ALL ACCESSORIES AT ACC SINGLE USER TOILET ROOMS AND IN ACC TOILET STALLS TO BE MOUNTED AT ACC HEIGHTS.
6. PROVIDE 3/8" PLYWOOD BACKING AT ALL ACCESSORIES WHERE ACCESSORY EXTENDS ABOVE TO FLUSH OUT TILE. PAINT PLYWOOD TO MATCH WALL COLOR AND CUT PLYWOOD IN 1" AROUND ACCESSORY EDGES TO CONCEAL IT.
7. ALL BABY CHANGING STATIONS AND CHILD PROTECTION SEATS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE CODE COMPLIANT BLOCKING.
8. MAINTAIN CLEAR FLOOR SPACE AT ALL ACCESSORIES, LOCKER AND BENCHES, PER ACC CLEAR FLOOR GROUND SPACE, TYP.
9. REFER TO TOILET ACCESSORY GUIDELINES FOR GRAB BAR MOUNTING HEIGHTS
10. RE: ACCESSIBILITY GUIDELINES SHEET FOR TOILET CLEARANCES

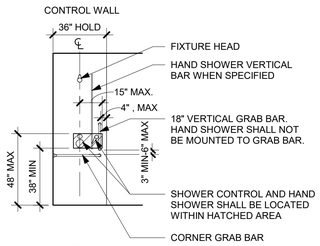
TOILET ACCESSIBILITY GUIDELINES



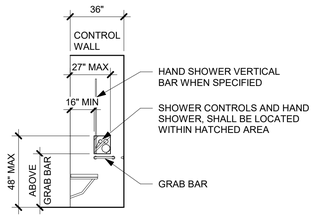
EXAMPLE OF ACCESSIBLE TRANSFER - TYPE SHOWER EXISTING BUILDINGS



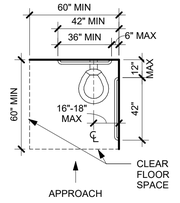
SHOWER - L-SHAPED SEAT



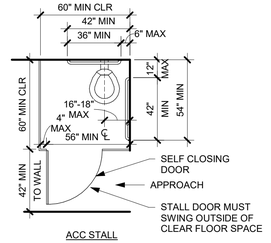
SHOWER - ACCESSIBLE CONTROL WALL



ALTERNATE ROLL IN SHOWER - ACCESSIBLE CONTROL WALL WITH SEAT

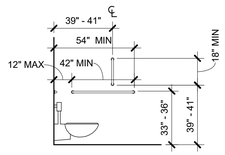


TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - NOT IN STALLS

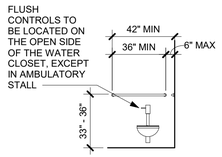


ACC STALL

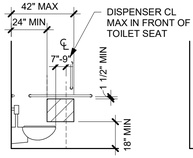
TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - STALLS



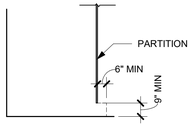
SIDE WALL ACCESSIBLE GRAB BAR DIMENSIONS



REAR ACCESSIBLE GRAB BAR DIMENSIONS



ACCESSIBLE PROTRUDING DISPENSER OPENING AREA



ACCESSIBLE COMPARTMENT TOE CLEARANCE

GENERAL NOTES:

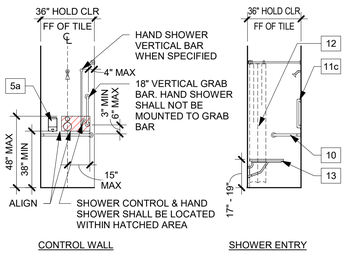
1. ALL ACCESSIBLE DIMENSIONS ARE TO FACE OF FINISH MATERIAL, UON.
2. TOLERANCES NOT PERMITTED FOR RANGES STATED WITH MIN AND MAX END POINTS

ACCESSORY SCHEDULE-BRADLEY

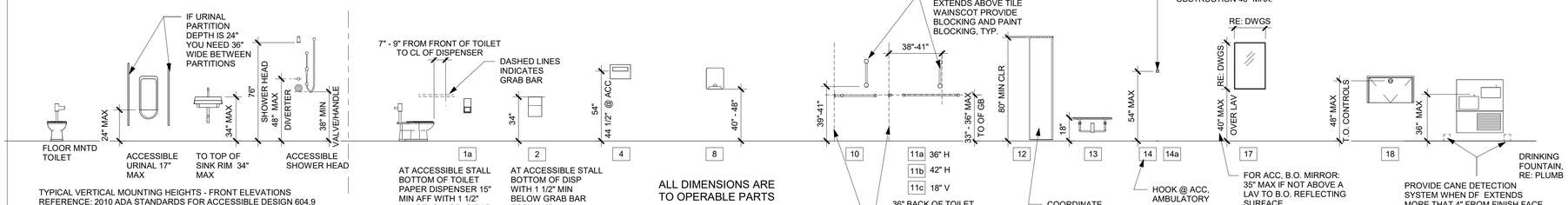
NO.	Vendor	Accessory Description	Model Number	Mount Type	Electrical Requirement	Comments
1a	Bradley	Toilet Tissue Dispenser-Vertical Double Roll	5402	Surface	N/A	
2	Bradley	Napkin Disposal	4722-15	Surface	N/A	
4	Bradley	Toilet Seat Cover	5831	Surface	N/A	
8	Bradley	Hand Dryer	2902-287400	Surface	YES	Standard Height
10	Bradley	Corner Grab Bar	812	Surface	N/A	
11a	Bradley	Grab Bar	812	Surface	N/A	
11b	Bradley	Grab Bar	812	Surface	N/A	
11c	Bradley	Grab Bar	812	Surface	N/A	
12	Bradley	Shower Rod, Curtain, Hooks	9531, 9533, 9540 (include all)	Surface	N/A	Rod Height -80" MIN CLR TO B.O. ROD
13	Bradley	Shower Seat	9569	Surface	N/A	
14	Bradley	Coat Hook	9114-00	Surface	N/A	
17		Mirror With Frame		Surface	N/A	
18	Koala	Horizontal Baby Changer	KB200	Surface		

SHOWER ACCESSORY GROUPS

SH-2 SHOWER GROUP 2 TRANSFER - ACCESSIBLE



VERTICAL ACCESSORY & FIXTURE LOCATIONS



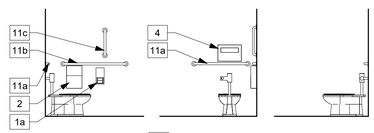
TYPICAL VERTICAL MOUNTING HEIGHTS - FRONT ELEVATIONS
REFERENCE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 604.9

TYPICAL CHILDRENS ACCESSIBLE MOUNTING HEIGHTS FOR CHILD WATCH ROOM IF REQUIRED:
- CHILDRENS TOILET SEAT HT: 13" - 15" TOP OF SEAT
- CHILDRENS GRAB BAR: 20" - 24"
- CHILDRENS DISPENSER HEIGHT: 14" - 17"
- CHILDRENS SINK RIM: 28" - 30" MAX
- CHILDRENS REACH RANGE FOR ACCESSORIES: 20" - 36" MAX

ALL DIMENSIONS ARE TO OPERABLE PARTS

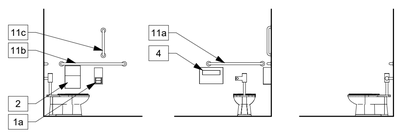
TOILET ACCESSORY GROUPS

TG-U1 TOILET GROUP 1 UNISEX (ACCESSIBLE)

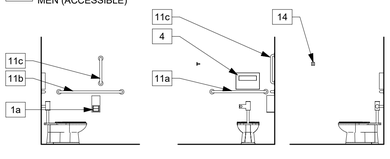


TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

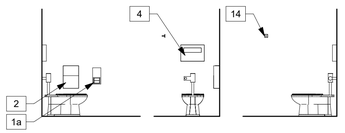
TG-W1 TOILET GROUP 1 WOMEN (ACCESSIBLE)



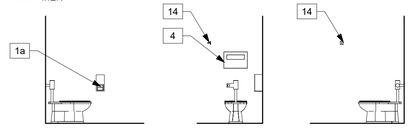
TG-M1 TOILET GROUP 1 MEN (ACCESSIBLE)



TG-W2 TOILET GROUP 2 WOMEN



TG-M2 TOILET GROUP 2 MEN



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1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO KEITH HAYES 203023 LICENSED ARCHITECT 1/24/26

Project Number:	2025.009
Issue:	100% CONSTRUCTION DOCUMENTS
Date:	01.09.2026
Drawn By:	AB
Checked By:	CD

Revisions:

Description	Date:

Sheet title:

TOILET ACCESSIBILITY GUIDELINES

A600

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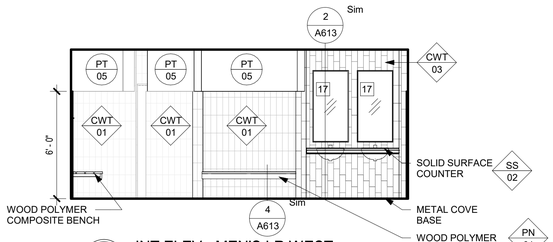
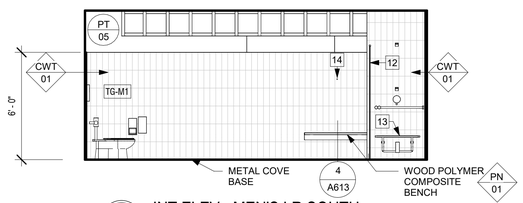
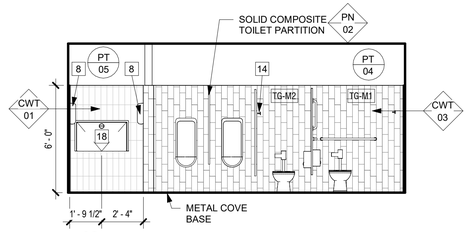
MEN'S LOCKER ROOM



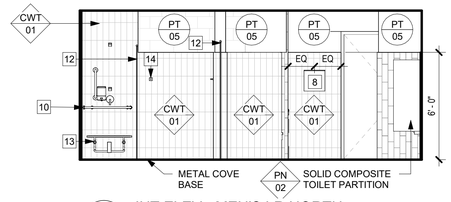
16 A610 INT ELEV - MEN'S LR WEST
1/4" = 1'-0"



15 A610 INT ELEV - MEN'S LR SOUTH
1/4" = 1'-0"

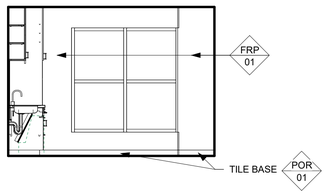


14 A610 INT ELEV - MEN'S LR EAST
1/4" = 1'-0"

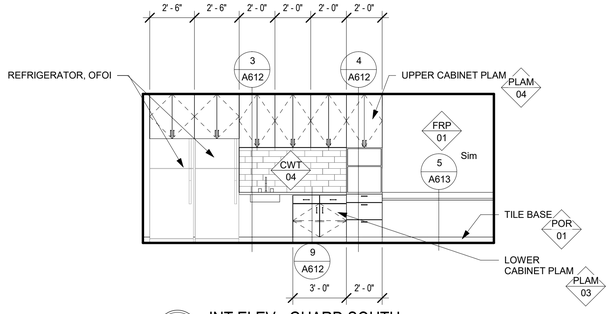


13 A610 INT ELEV - MEN'S LR NORTH
1/4" = 1'-0"

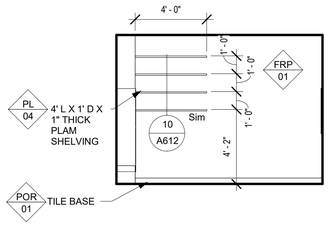
GUARDS/FIRST AID



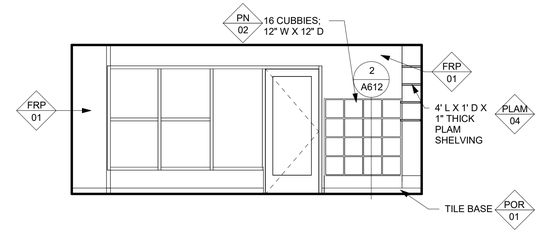
12 A610 INT ELEV - GUARD WEST
1/4" = 1'-0"



11 A610 INT ELEV - GUARD SOUTH
1/4" = 1'-0"

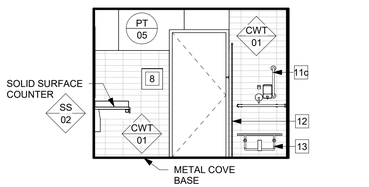


10 A610 INT ELEV - GUARD EAST
1/4" = 1'-0"

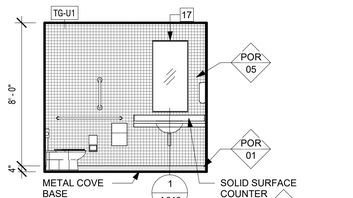


9 A610 INT ELEV - GUARD NORTH
1/4" = 1'-0"

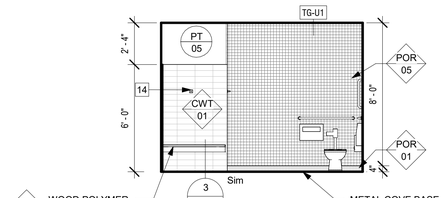
FAMILY CHANGING ROOM (FC)



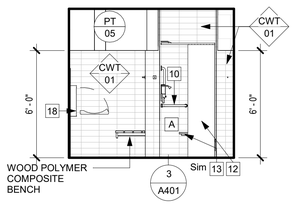
8 A610 INT ELEV - FC WEST
1/4" = 1'-0"



7 A610 INT ELEV - FC SOUTH
1/4" = 1'-0"

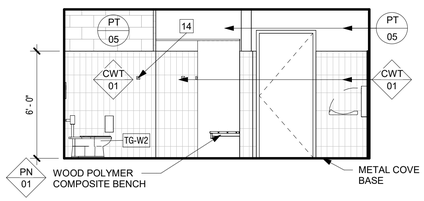


6 A610 INT ELEV - FC EAST
1/4" = 1'-0"

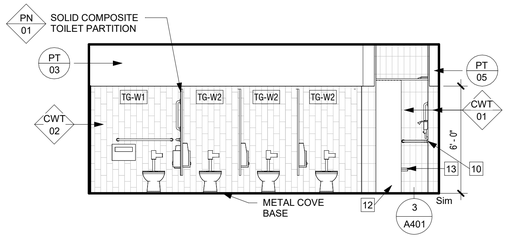


5 A610 INT ELEV - FC NORTH
1/4" = 1'-0"

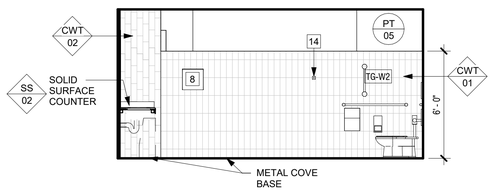
WOMEN'S LOCKER ROOM



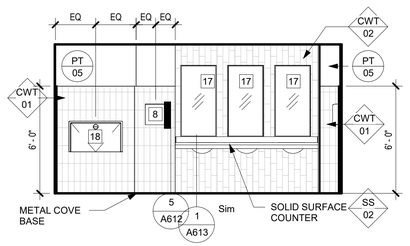
4 A610 INT ELEV - WOMEN'S LR WEST
1/4" = 1'-0"



3 A610 INT ELEV - WOMEN'S LR SOUTH
1/4" = 1'-0"



2 A610 INT ELEV - WOMEN'S LR EAST
1/4" = 1'-0"



1 A610 INT ELEV - WOMEN'S LR NORTH
1/4" = 1'-0"

1/24/2026 2:41:57 PM Autodesk Docs://Superior North Pool Renovation/SNP_ARCH.rvt

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North Pool Renovation
1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT
1/24/2026

Project Number: 2025.009
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INTERIOR ELEVATIONS

A610

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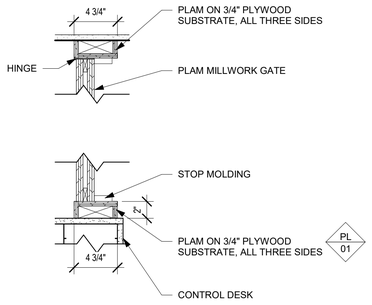
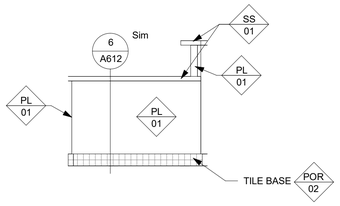


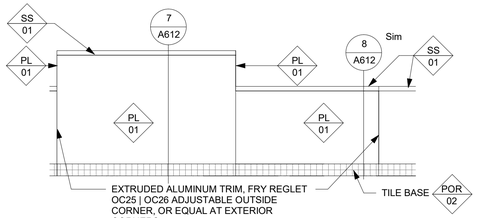
11 A611 PLAN DTL - MILLWORK GATE

1 1/2" = 1'-0"



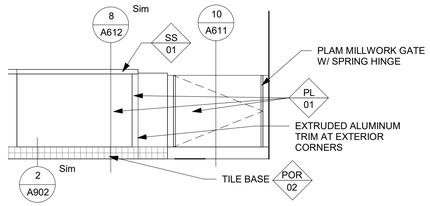
9 A611 CONTROL - S

1/2" = 1'-0"



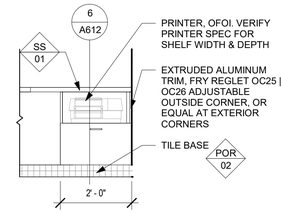
8 A611 CONTROL - S/E

1/2" = 1'-0"



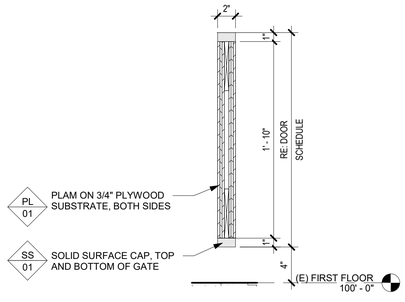
7 A611 CONTROL - E

1/2" = 1'-0"



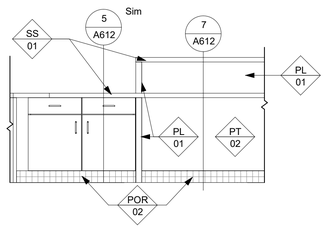
6 A611 INT ELEV - CONTROL - DESK S

1/2" = 1'-0"



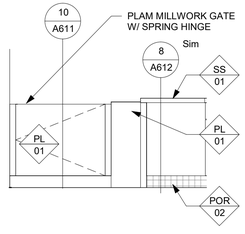
10 A611 MILLWORK DTL - MILLWORK GATE SECTION

1 1/2" = 1'-0"



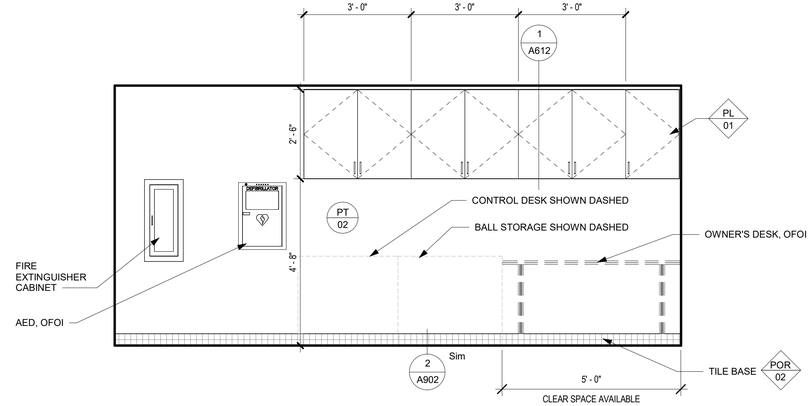
5 A611 INT ELEV - CONTROL - DESK S/E

1/2" = 1'-0"



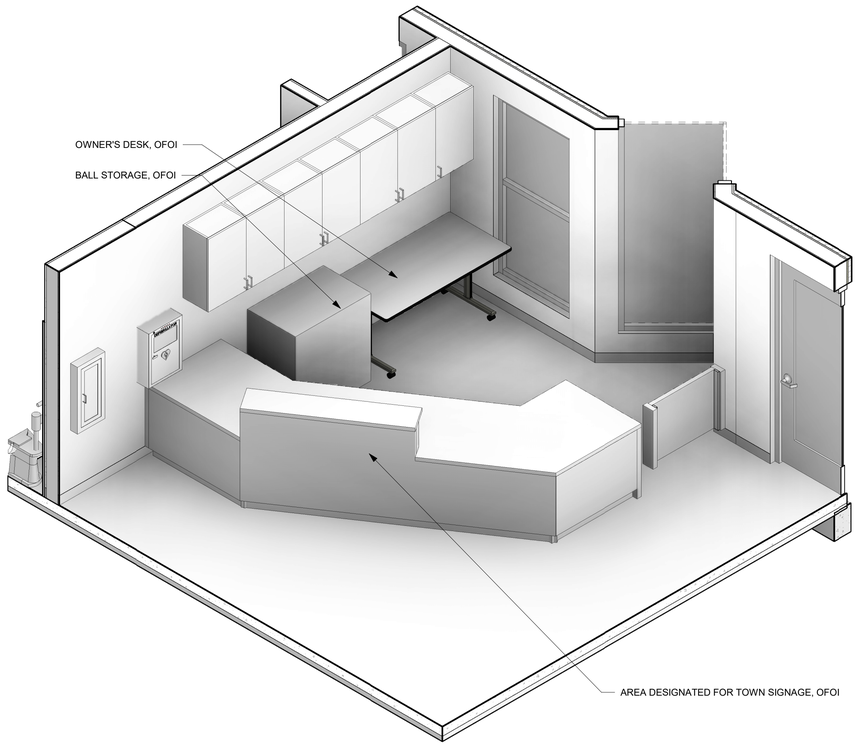
4 A611 INT ELEV - CONTROL - DESK E

1/2" = 1'-0"

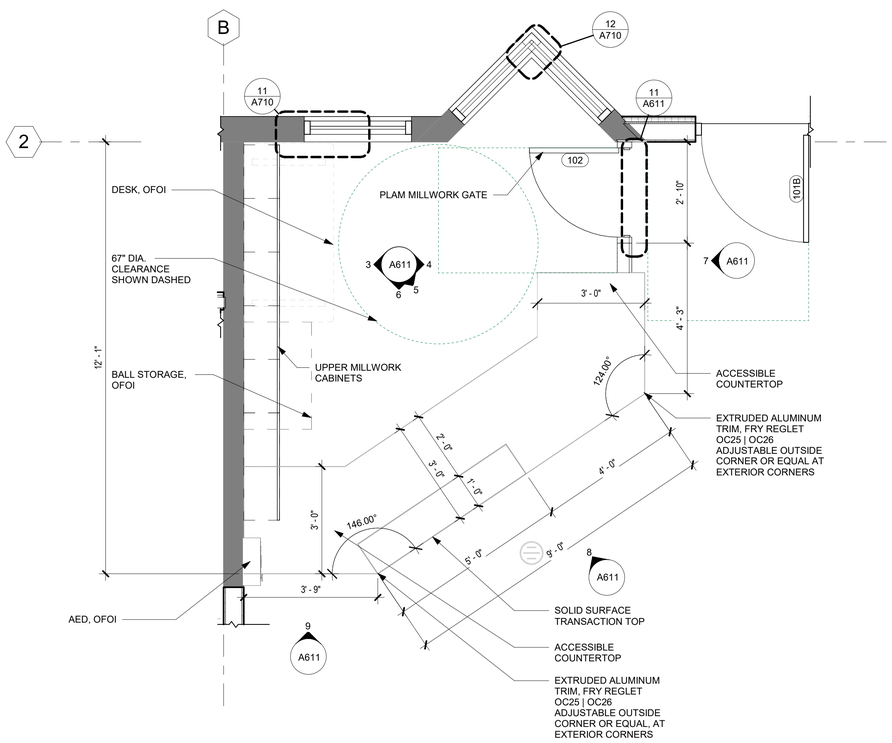


3 A611 INT ELEV - CONTROL - W UPPER CAB

1/2" = 1'-0"



2 A611 CONTROL DESK
3D VIEW FOR REFERENCE ONLY



1 A611 FIRST FLOOR - CONTROL DESK

1/2" = 1'-0"

BARKER RINKER SEACAT ARCHITECTURE

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
209023
LICENSED ARCHITECT
11/4/2025

Project Number: 2025.009
Issue: 100% CONSTRUCTION DOCUMENTS
Date: 01.09.2026
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Checked By: Checker

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ENLARGED PLAN & INTERIOR ELEVATIONS - CONTROL DESK

A611

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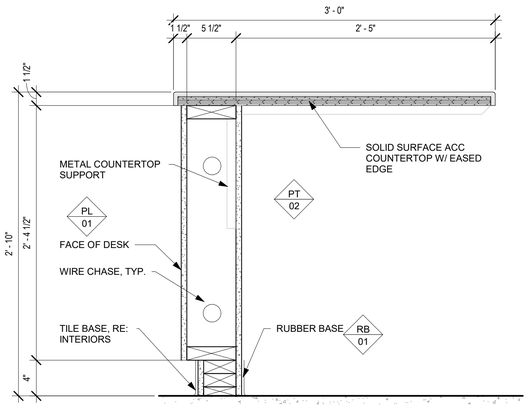
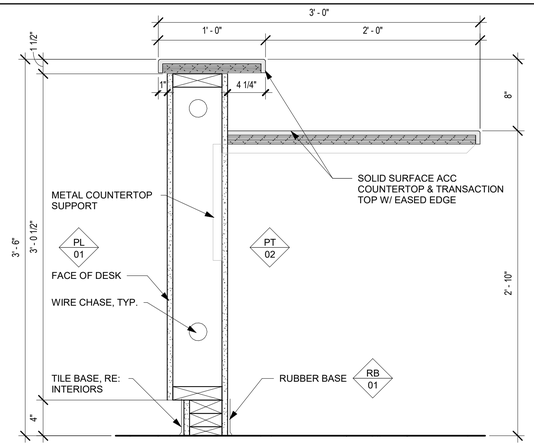


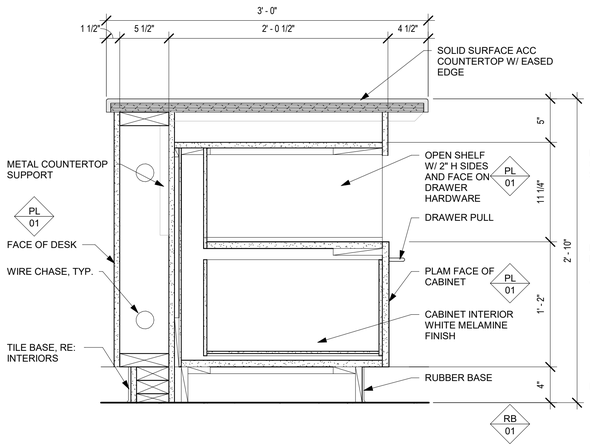
8 A612 DTL - MILLWORK - ADA COUNTER

1 1/2" = 1'-0"



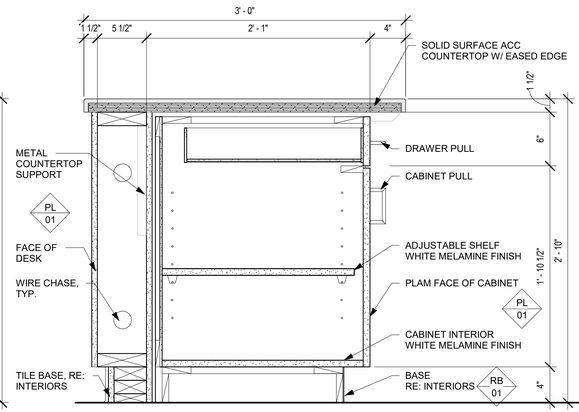
7 A612 DTL - MILLWORK - TRANSACTION COUNTER

1 1/2" = 1'-0"



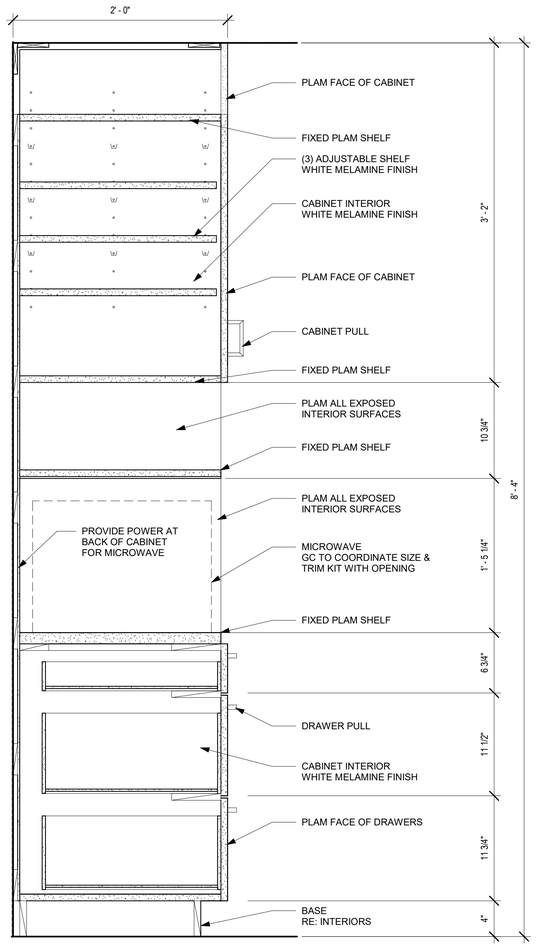
6 A612 DTL - MILLWORK - BASE CAB W/ PRINTER

1 1/2" = 1'-0"



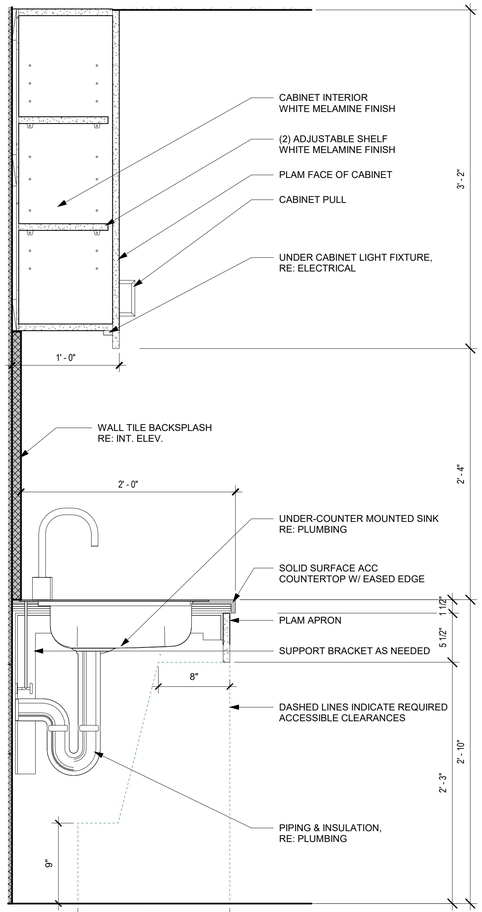
5 A612 DTL - MILLWORK - BASE CAB W/ DRAWER

1 1/2" = 1'-0"



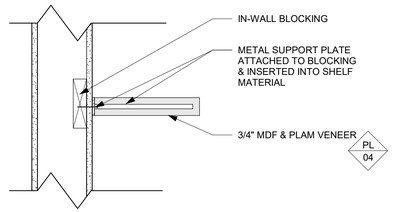
4 A612 DTL - MILLWORK - MICROWAVE CABINET

1 1/2" = 1'-0"



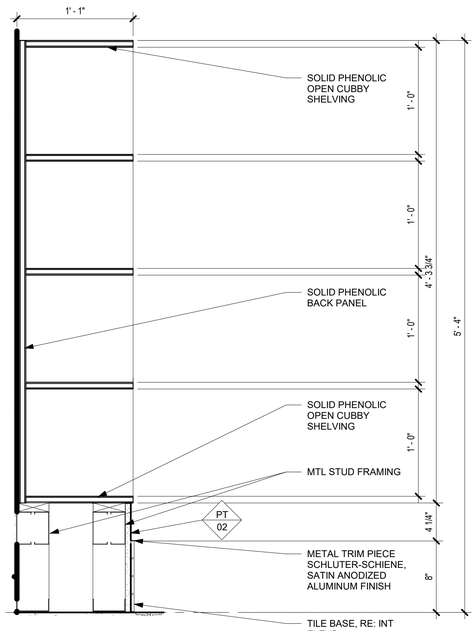
3 A612 DTL - MILLWORK - BASE WITH VALANCE

1 1/2" = 1'-0"



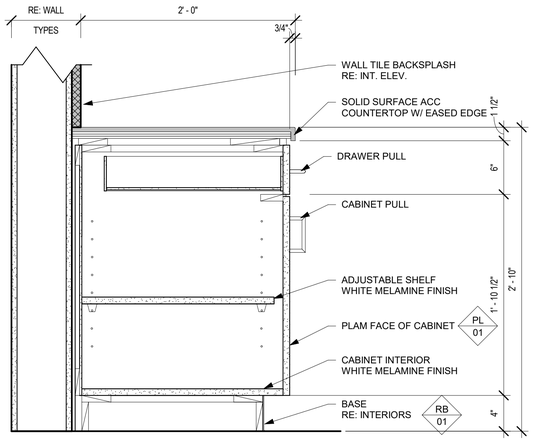
10 A612 DTL - MILLWORK - SHELVES

1 1/2" = 1'-0"



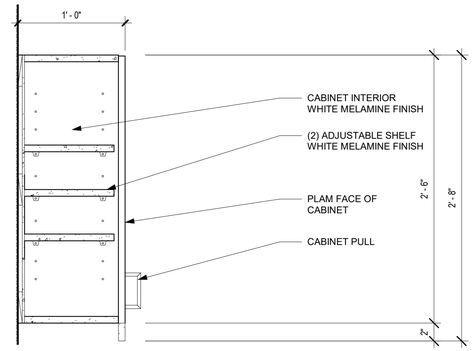
2 A612 DTL MILLWORK - OPEN CUBBIES

1 1/2" = 1'-0"



9 A612 DTL - MILLWORK - BASE CAB W/ DRAWER (GUARDS)

1 1/2" = 1'-0"



1 A612 DTL - MILLWORK - UPPER CABINET

1 1/2" = 1'-0"

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
29023
LICENSED ARCHITECT
1/a/2026

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MILLWORK DETAILS

A612

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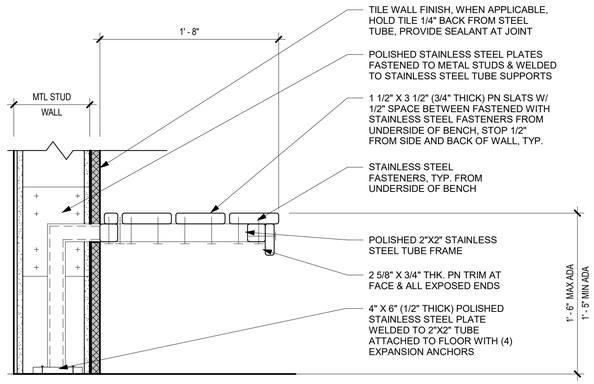
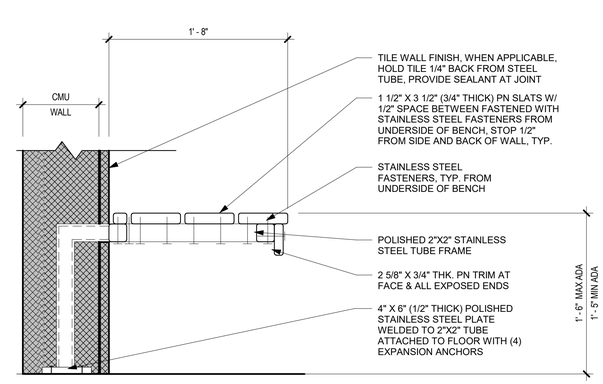


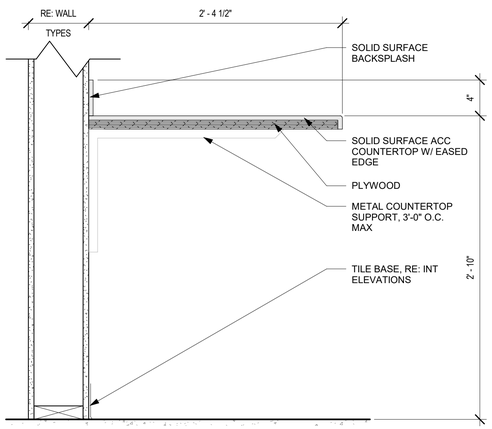
4 A613 DTL - MILLWORK - WALL MOUNTED BENCH - MTL STUD WALL

1 1/2" = 1'-0"



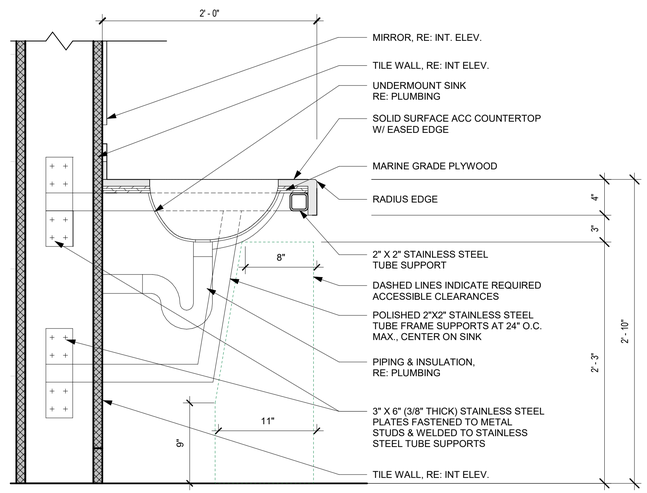
3 A613 DTL - MILLWORK - WALL MOUNTED BENCH - CMU WALL

1 1/2" = 1'-0"



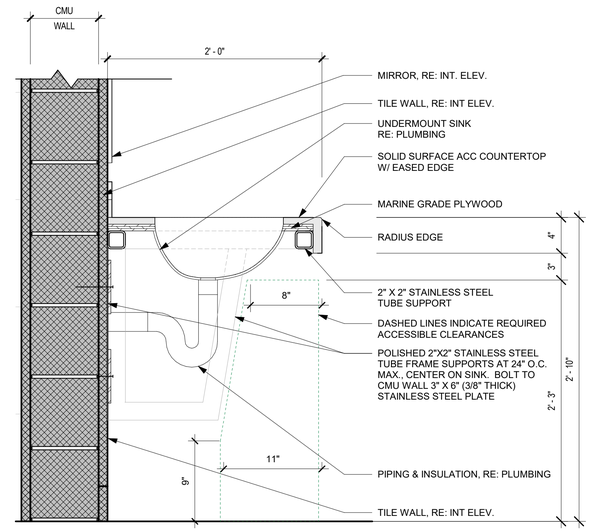
5 A613 DTL - MILLWORK - COUNTERTOP

1 1/2" = 1'-0"



2 A613 DTL - MILLWORK TYP. VANITY - MTL STUD WALL

1 1/2" = 1'-0"



1 A613 DTL - MILLWORK TYP. VANITY - CMU WALL

1 1/2" = 1'-0"

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO KEITH HAYES 205023 REGISTERED ARCHITECT 1/24/2026

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Checked By:	Checker

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MILLWORK DETAILS

A613

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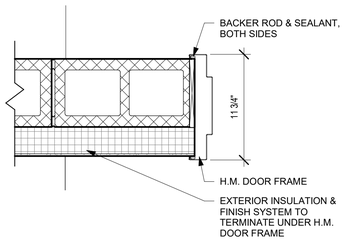
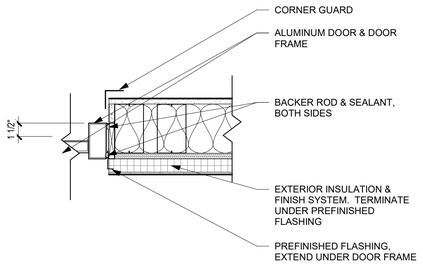
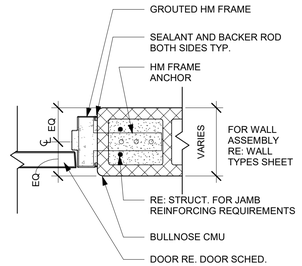


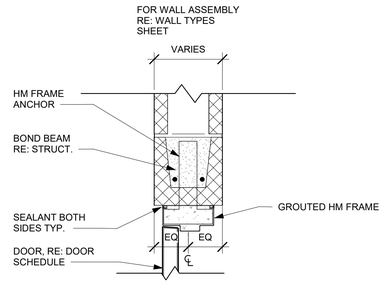
5 A700 EXT GHM DOOR HEAD & JAMB @ EXT EIFS & CMU
1 1/2" = 1'-0"



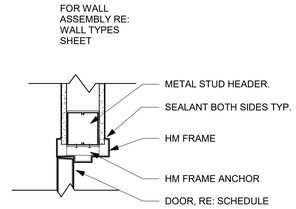
4 A700 EXT ALUM DOOR @ EXT EIFS & METAL STUD WALL
1 1/2" = 1'-0"



3 A700 INT. HM DOOR JAMB @ CMU
1 1/2" = 1'-0"



2 A700 INT. HM DOOR HEAD @ CMU
1 1/2" = 1'-0"

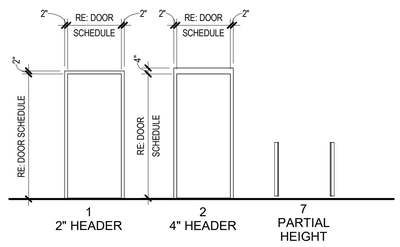


1 A700 INT HM DOOR HEAD & JAMB @ METAL STUD WALL
1 1/2" = 1'-0"

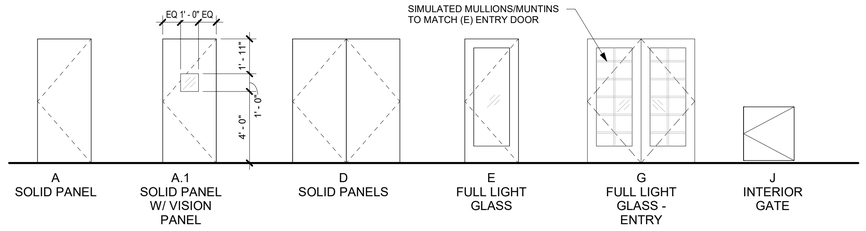
Door Schedule

Door Number	Room Name	Door Size Width	Door Size Height	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Details Head	Details Jamb	Set Number	Comments
101A	LOBBY	6' - 11"	6' - 9"	G	AL	FACT-F	RE: WINDOW TYPES	AL	FACT-F	4/A700	4/A700	AL01	
101B	LOBBY	3' - 0"	7' - 0"	E	HM	PT	1	HM	PT	4/A700	4/A700	09	
102	CONTROL	2' - 6"	2' - 0"	J	MILLWORK	PLAM	7	MILLWORK	PLAM	N/A	N/A	10	MILLWORK DOOR ATTACHED TO CONTROL DESK
103	MENS	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	4/A700	4/A700	01	
104	FAMILY CHANGING	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	4/A700	4/A700	03	
105	MECH/ELEC	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	1/A700	1/A700	08	
106	ALL SEASON RR	3' - 0"	7' - 0"	A	GHM	HPC	2	GHM	HPC	4/A700	4/A700	02	
107	WOMENS	3' - 0"	7' - 0"	A	GHM	HPC	2	GHM	HPC	4/A700	4/A700	04	
108	GUARDS/FIRST AID	3' - 0"	7' - 0"	E	AL	FACT-F	RE: WINDOW TYPES	AL	FACT-F	4/A700	4/A700	AL02	
120	STO	3' - 0"	7' - 2"	A	GHM	HPC	2	GHM	HPC	5/A700	5/A700	07	
121	CHEM	3' - 0"	7' - 2"	A.1	GHM	HPC	2	GHM	HPC	5/A700	5/A700	07	
122	CHEM	3' - 0"	7' - 2"	A.1	GHM	HPC	2	GHM	HPC	5/A700	5/A700	07	
123	TEAM STO	6' - 0"	7' - 0"	D	GHM	HPC	2	GHM	HPC	5/A700	5/A700	06	
124A	POOL MECH	3' - 8"	7' - 2"	A	GHM	HPC	2	GHM	HPC	5/A700	5/A700	05	
124B	POOL MECH	3' - 0"	7' - 0"	A	GHM	HPC	2	GHM	HPC	5/A700	5/A700	07	

DOOR SCHEDULE ABBREVIATIONS
ALUM/AL: ALUMINUM
FACT-F: FACTORY FINISH
FBGL: FIBERGLASS
GHM: GALVANIZED HOLLOW METAL
HM: HOLLOW METAL
NA: NOT APPLICABLE
PT: PAINT
ST: STAIN
STL: STEEL
S-STL: STAINLESS STEEL
WD: WOOD
DP: DECORATIVE PANEL
GL: GLAZING



FRAME TYPES
1/4" = 1'-0"



NOTE: ALL GLAZING IN DOORS TO BE TEMPERED U.O.N.

DOOR TYPES
1/4" = 1'-0"

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KEITH HAYES
29023
LICENSED ARCHITECT
1/2/2026

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DOOR SCHEDULES, TYPES & DETAILS

A700

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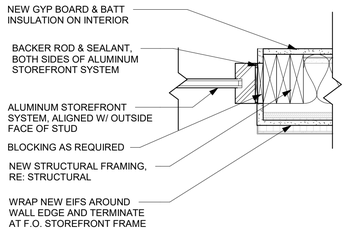
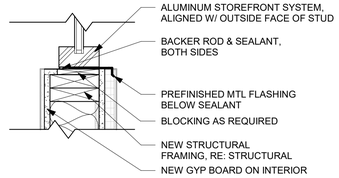


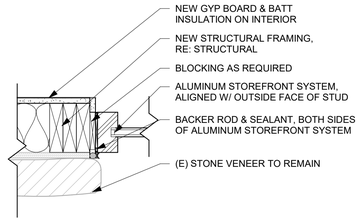
11 A710 WINDOW DTL - STOREFRONT JAMB @ STUCCO

1 1/2" = 1'-0"



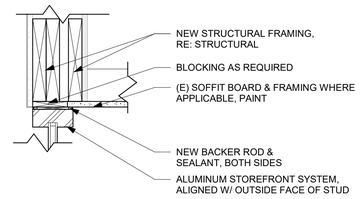
10 A710 WINDOW DTL - STOREFRONT SILL

1 1/2" = 1'-0"



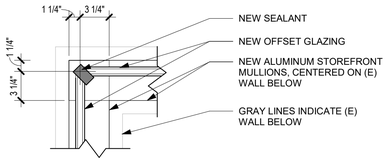
9 A710 WINDOW DTL - STOREFRONT JAMB @ (E) STONE

1 1/2" = 1'-0"



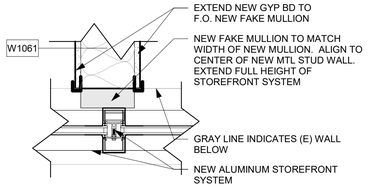
6 A710 WINDOW DTL - STOREFRONT HEAD

1 1/2" = 1'-0"



12 A710 WINDOW DTL - BUTT GLAZING JOINT

1 1/2" = 1'-0"



8 A710 PLAN DTL - MTL STUD WALL & STOREFRONT

1 1/2" = 1'-0"

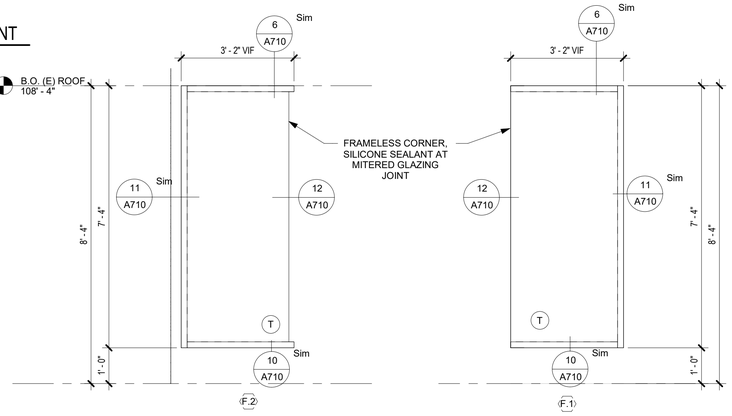
WINDOW TYPE GENERAL NOTES:

1. SEE DOOR SCHEDULE FOR DOOR TYPES WITHIN WINDOW ASSEMBLIES
2. FIELD VERIFY ALL DIMENSIONS.
3. DIMENSIONS ARE TO THE OUTSIDE FACE OF THE OUTSIDE MULLIONS AND TO THE CENTERLINE OF THE INSIDE MULLIONS, TYP UON.
4. NOTIFY ARCHITECT PRIOR TO BID IF FRAMING MEMBER SIZES NEED TO BE REVISED
5. WINDOW TYPE MAY OCCUR IN VARIOUS WALL TYPES, SEE PLAN FOR LOCATIONS
6. ALL BRAKE METAL WITHIN STOREFRONT/CURTAINWALL ASSEMBLIES TO MATCH STOREFRONT/CURTAINWALL FINISH UON.
7. PROVIDE TEMPERED/SAFETY GLAZING AS REQUIRED BY CODE NOT LIMITED BY LOCATIONS IDENTIFIED.
8. INSULATED GLASS UNITS AT ALL EXTERIOR GLAZING, UON
9. GLAZING THICKNESS AND FRAME TYPES TO BE CONSISTENT WITHIN EACH WINDOW TYPE.
10. ANY BOTTOM MULLIONS ON THE FINISH FLOOR SHALL BE 4" TALL UON.
11. REFER TO FINISH PLAN FOR INDICATION OF WINDOW SHADES AT WINDOWS

GLAZING LEGEND

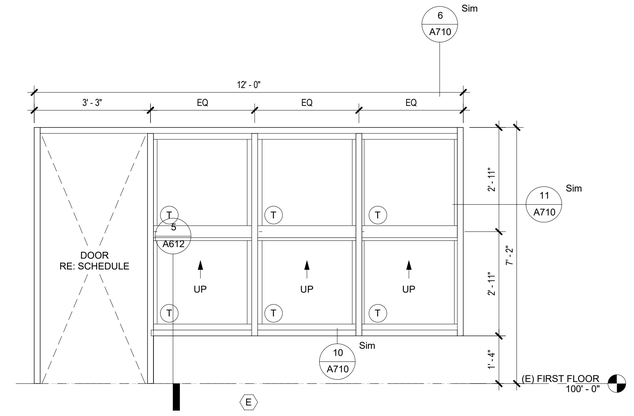
(T) DENOTES TEMPERED/SAFETY GLASS

(O) DENOTES TRANSLUCENT (OBSCURE) INSULATING GLASS UNIT

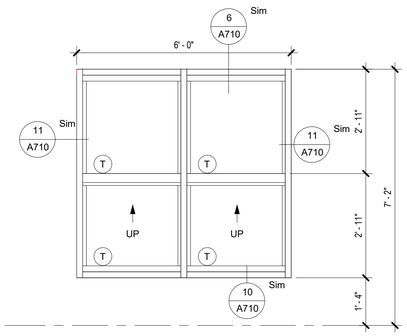


- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING (OFFSET AFG451T)

- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING (OFFSET AFG451T)



- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING
- ARCADIA C3550 SINGLE-HUNG WINDOW INSERTS
- MANUAL WINDOW SHADES ALONG TOP MULLION



- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
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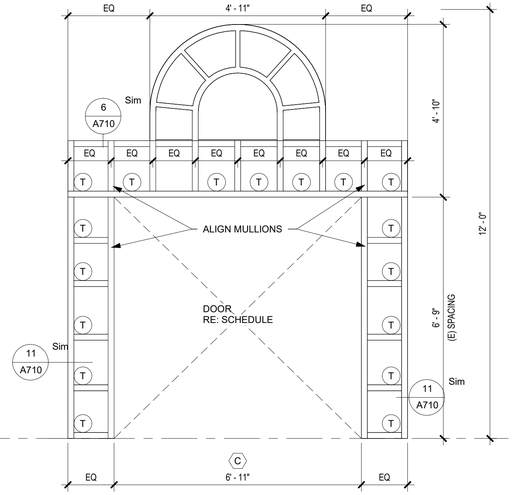
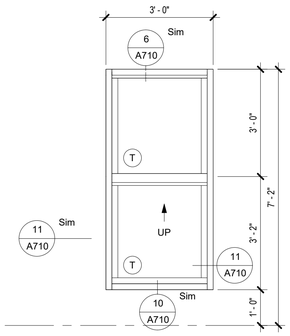
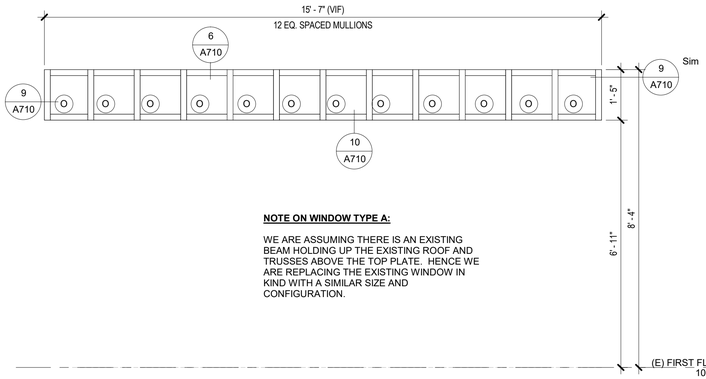


- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING



- EXTERIOR STOREFRONT
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING
- ARCADIA C3550 SINGLE-HUNG WINDOW INSERT



NOTE ON WINDOW TYPE A:

WE ARE ASSUMING THERE IS AN EXISTING BEAM HOLDING UP THE EXISTING ROOF AND TRUSSES ABOVE THE TOP PLATE. HENCE WE ARE REPLACING THE EXISTING WINDOW IN KIND WITH A SIMILAR SIZE AND CONFIGURATION.

- EXTERIOR CLERESTORY
- CLEAR ANODIZED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING

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KEITH HAYES
203023
LICENSED ARCHITECT
1/2/2026

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EXTERIOR WINDOW TYPES AND DETAILS

A710

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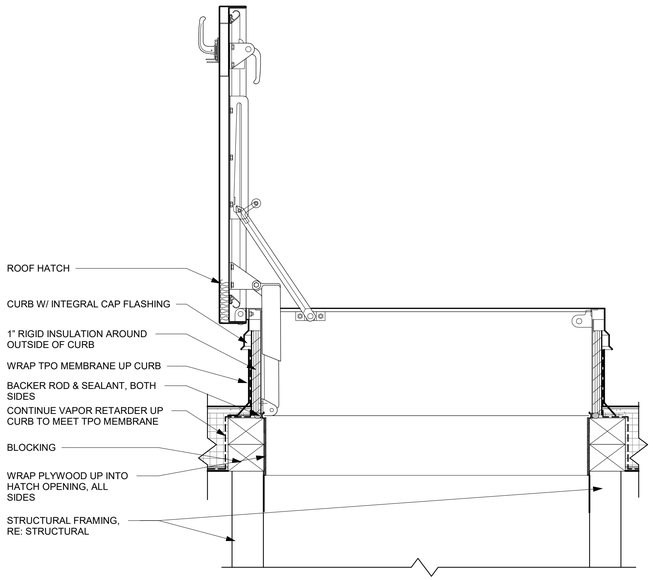
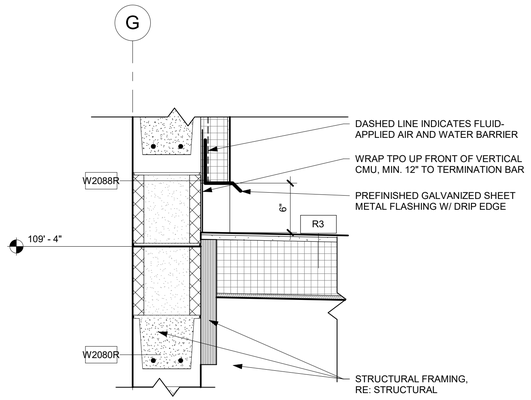
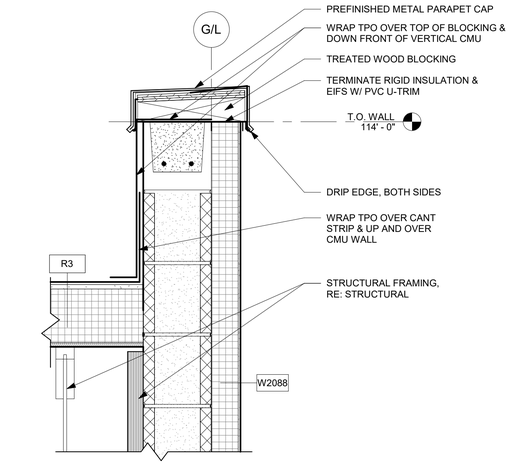


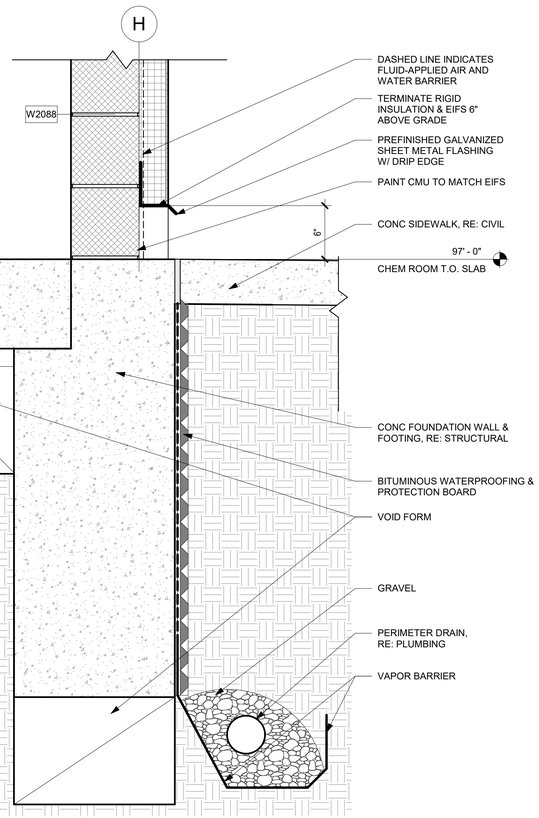
6 A730 ROOF DTL - ROOF HATCH
1 1/2" = 1'-0"



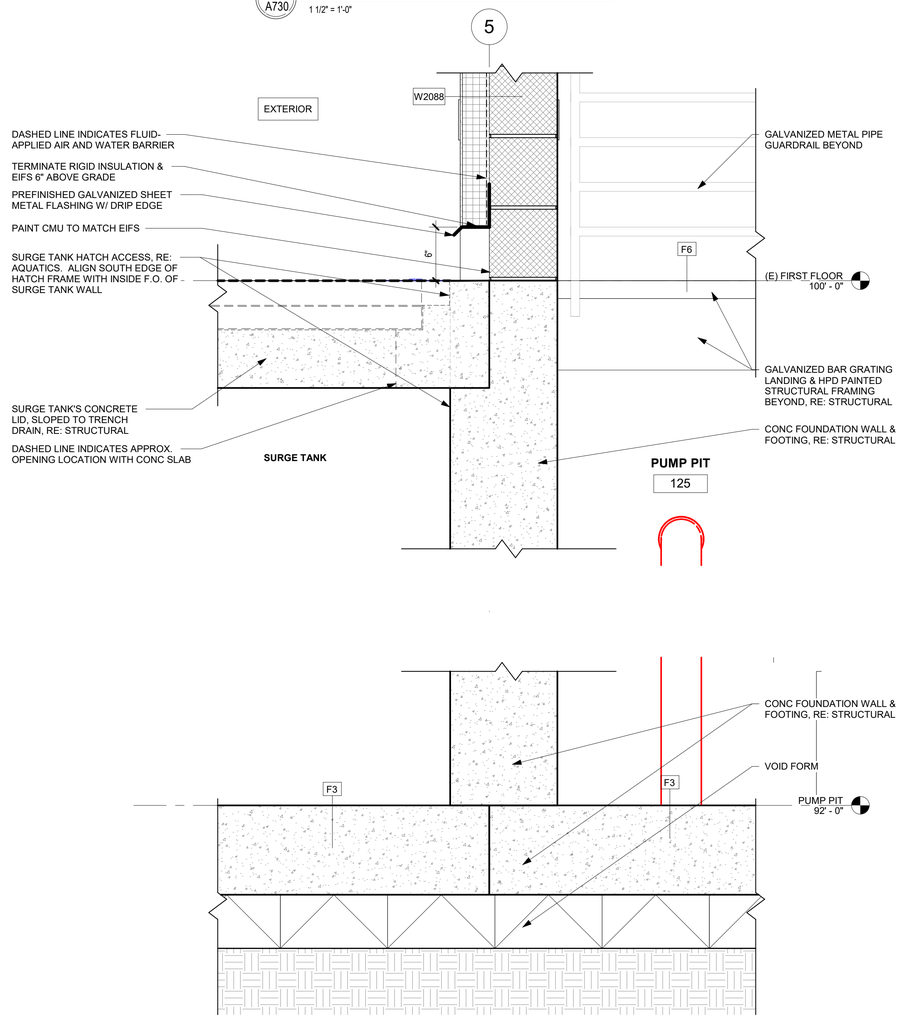
5 A730 ROOF DTL - LOW ROOF INTERSECTION
1 1/2" = 1'-0"



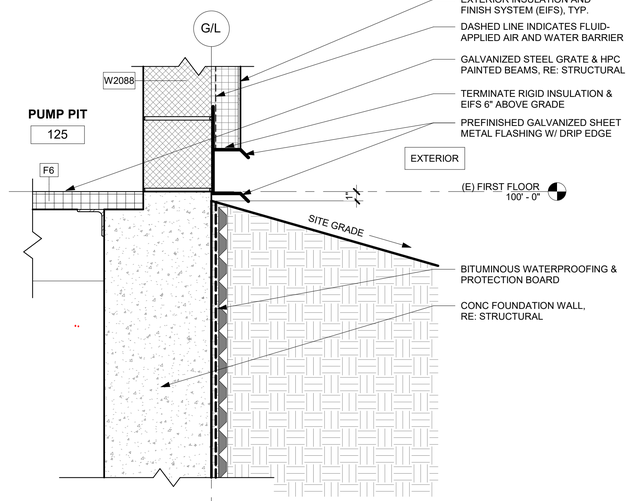
4 A730 ROOF DTL - PARAPET CAP
1 1/2" = 1'-0"

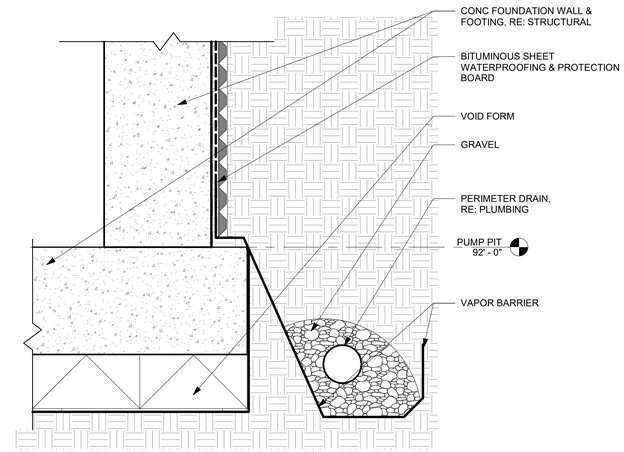


3 A730 FOUNDATION DTL - EAST STO/CHEM ROOMS
1 1/2" = 1'-0"



2 A730 FOUNDATION DTL - PUMP PIT & SURGE TANK
1 1/2" = 1'-0"





1 A730 FOUNDATION DTL - PUMP PIT & EXTERIOR GRADE
1 1/2" = 1'-0"

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SECTION DETAILS - EXTERIOR ENVELOPE

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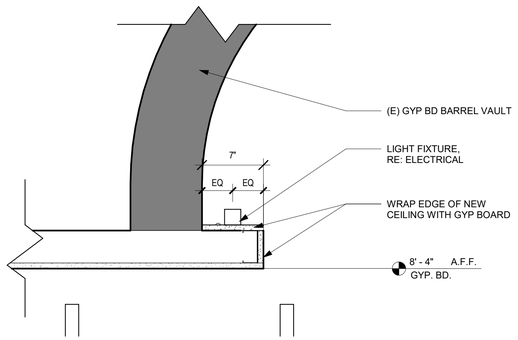
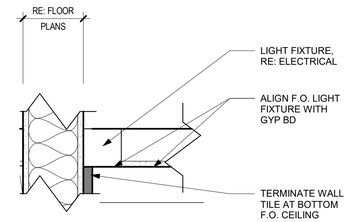


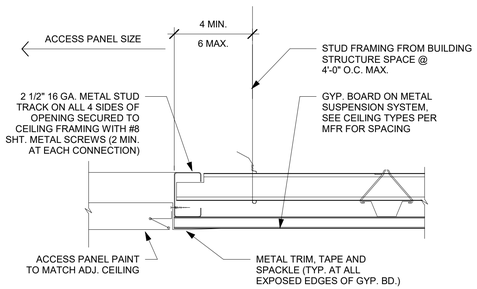
6 A750 CLG DTL - COVE LIGHT @ BARREL VAULT

1 1/2" = 1'-0"



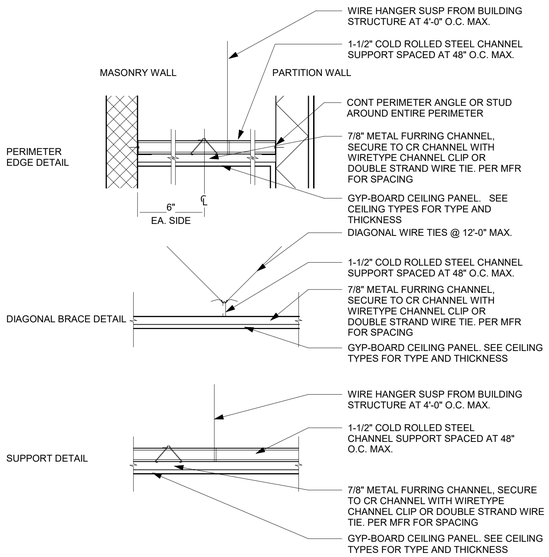
5 A750 CLG DTL - RECESSED LINEAR @ VANITIES

1 1/2" = 1'-0"



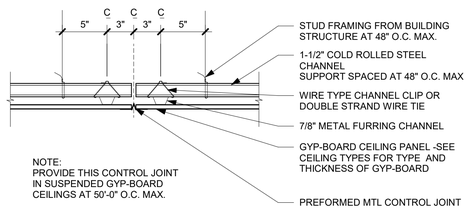
4 A750 ACCESS PANEL @ GYP-BOARD CEILING

3" = 1'-0"



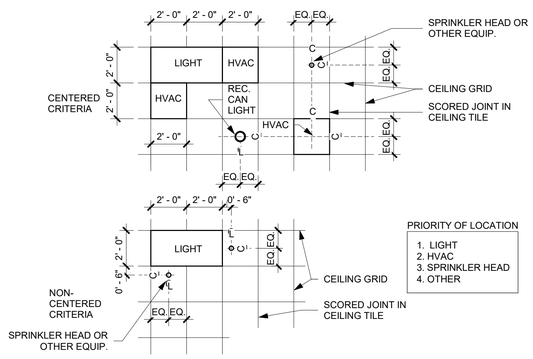
2 A750 SUSPENSION SYSTEM @ GYP-BOARD CEILINGS

1 1/2" = 1'-0"



3 A750 GYP-BOARD CEILING CONTROL JOINT

1 1/2" = 1'-0"



NOTE:
MOUNT ALL LIGHTS, DIFFUSERS, SENSORS, SPRINKLERS ETC, ACCORDING TO THE CENTERED DIAGRAM ABOVE. WHEN CENTERED POSITIONING IS NOT POSSIBLE, USE THE NON-CENTERED DIAGRAM ABOVE.

1 A750 LOCATION CRITERIA

1/4" = 1'-0"

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(E)	EXISTING
ACY	ACRYLIC PANEL
APC	ACRYLIC POLYMER COATING
AWP	ACOUSTICAL WALL PANEL
BB	BULLETIN BOARD
BN	BULLNOSE
BO	BY OWNER
CAT	CERAMIC ACCENT TILE
CC	CLEAR COAT
CF	CEILING FINISH
CG	CORNER GUARDS
CMT	CERAMIC MOSAIC TILE
CMT-B	CERAMIC MOSAIC TILE COVE BASE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CWT	CERAMIC WALL TILE
CWT-B	CERAMIC WALL TILE BASE
CWT-BN	CERAMIC WALL TILE BULLNOSE
DF	DRINKING FOUNTAIN
DIV	DIVISION
EGT	EPOXY GROUT
EMAT	ENTRY MAT
EPF	EPOXY POURED FLOORING
EX	EXPOSED
FF	FINISH FLOOR
FF	FINISH FACE
FF&E	"FURNITURE, FIXTURE AND EQUIPMENT"
FF:	FLOOR FINISH
FFIN	FACTORY FINISH
FRP	FIBER REINFORCED PANEL
GL	GLASS
GLT	GLASS TILE
GM-GYM	GLASS MESH GYPSUM BOARD
GPH	GRAPHIC
GT	GROUT
GYP BD/GYB	GYPSUM BOARD
HORZ/H	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
LIN	LINOLEUM
MB	MARKER BOARD
MCB	METAL COVE BASE
MD	METAL DESK
MTL	METAL
OF/OI	OWNER FURNISHED / OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OP	OPERABLE PARTITION
OTS	OPEN TO STRUCTURE
PCP	PAPER COMPOSITE PARTITIONS
PATT	PATTERN
PAV	PAVER TILE
P-CONC	POLISHED CONCRETE
PCP	PAPERSTONE PAPER COMPOSITE
PLAM	PLASTIC LAMINATE
POR	PORCELAIN TILE
POR-B	PORCELAIN TILE BASE
POR-D	PORCELAIN TILE DECORATIVE BOARDER
PT	PAINT
QT	QUARRY TILE
QT-B	QUARRY TILE BASE
RAF	RESILIENT ATHLETIC FLOORING
RAIL	RAILING
RB	RUBBER BASE
RES	RESIN PANEL
RF	RUBBER FLOOR
R-NOSING	RUBBER STAIR NOSING
RSCP	REINFORCED SOLID COMPOSITE PARTITIONS
RT	RUBBER TREAD
R-TILE	RUBBER TILE
RUB-STFY	RUBBER SAFETY FLOOR
SAT	SUSPENDED ACOUSTICAL TILE
S-CONC	SEALED CONCRETE
SCP	SOLID COMPOSITE PARTITION
SD-CONC	SAND FINISH CONCRETE
SDT	STATIC DISSIPATIVE TILE
SIM	SIMILAR
SLMT	SLATE MOSAIC TILE
SLW	SLATWALL
SPH	SOLID PHENOLIC MATERIAL
SPL	SOLID PLASTIC MATERIAL
SPWP	SOLID PLASTIC WALL PANEL
SS	SOLID SURFACE
S-STL	STAINLESS STEEL
ST	STAIN
ST-CONC	STAINED CONCRETE
STG-FLR	STAGE FLOOR
STN	STONE
STN-B	STONE BASE
STN-T	STONE TILE
SW-CONC	SWIRLED CONCRETE
TB	TACK BOARD
TBD	TO BE DETERMINED
TECP	TECTUM PANEL
TEX	TEXTURED WOOD PANEL
TS	TRANSITION STRIP/REDUCER STRIP
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT/V	VERTICAL
VIF	VERIFY IN FIELD
VNR	VENEER
VPL	VENEER PLASTER
VRB	VENTED RUBBER BASE
V-SAT	VINYL SUSPENDED ACOUSTICAL TILE
VSF	VINYL SHEET FLOOR
VTF	VINYL TILE FLOOR
WB:	WALL BASE
WC	WALL COVERING
WD	WOOD
WDC	WOOD CEILING
WSF	WOOD STRIP FLOORING
WF:	WALL FINISH
WM	WALL MAT
WPC	WOOD POLYMER COMPOSITE
WR-GYP	WATER RESISTANT GYPSUM BOARD
WT	WINDOW TREATMENT
WVP	WOOD VENEER PANELING

2 A901 INTERIOR ABBREVIATIONS

1/4" = 1'-0"

INTERIOR FINISH SYMBOLS

X / X — PAINT FINISH INDICATOR, REFERENCE FINISH LEGEND

X / X — FLOOR FINISH INDICATOR, RE: FINISH LEGEND

X / X — FINISH INDICATOR, REFERENCE FINISH LEGEND

FLOOR MATERIAL TRANSITION INDICATOR

INTERIOR FINISH SYMBOLS

1/4" = 1'-0"

ROOM NAME →

WALL FINISH → WF:

FLOOR FINISH → FF:

WALL BASE → WB:

NOTES →

ROOM FINISH KEY NOTES:

1. THE ROOM FINISH KEY IS USED TO CALL OUT THE FLOOR, WALL AND WALL BASE FINISHES IN A GIVEN ROOM WHERE THE TAG CAN BE FOUND ON THE FINISH PLANS. REFER TO INTERIOR ABBREVIATIONS AND FINISH LEGEND FOR CALL-OUTS.
2. REFER TO INTERIOR ELEVATIONS, FINISH PLANS AND RCPS FOR ACCENT PAINT COLORS.
3. WHERE 'VARIES' IS CALLED OUT FOR THE WALL FINISH: ASSUME THE FOLLOWING:

   A. ACCENT WALL(S) ARE CALLED OUT WITH A SYMBOL. AS INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.

   B. WHERE PAINT IS NOT CALLED OUT WITH A SYMBOL ON THE FINISH PLANS OR INTERIOR ELEVATIONS. WALLS ARE TO BE PAINTED PT-1 OR HPC-1.
4. IF MULTIPLE FINISHES ARE LISTED ON THE ROOM FINISH KEY, REFER TO THE INTERIOR ELEVATIONS FOR WALL PATTERNS OR FINISH PLANS FOR FLOORING, PATTERNS AS INDICATED.
5. IF THERE IS A CONFLICT BETWEEN DRAWINGS & THE FINISH KEY, CONTACT THE ARCHITECT FOR CLARIFICATION.

1 A901 ROOM FINISH KEY

1/4" = 1'-0"

GENERAL INTERIOR FINISH NOTES:

GENERAL:

1. REFER TO ARCHITECTURAL GENERAL NOTES.
2. REFERENCE ARCHITECTURAL PLANS FOR SUBSTRATE INFORMATION.
3. ALL REQUEST FOR SUBSTITUTIONS FOR SPECIFIED ITEMS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT PRIOR TO BIDDING WITH ALTERNATIVE PRODUCT INFORMATION AND SAMPLES WILL BE CONSIDERED ONLY IF DEEMED ACCEPTABLE WITH REGARD TO QUALITY, APPEARANCE AND FUNCTION. REFER TO DIVISION 01 OF SPECIFICATIONS, FOR SUBSTITUTIONS REQUIREMENTS.
4. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS. REFER TO SPECIFICATIONS.
5. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALL SUBMITTAL AND/OR MOCKUP GUIDELINES AND REQUIREMENTS.
6. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING.
7. FOR ITEMS NOT SPECIFIED, ASSUME COLOR SELECTIONS TO BE MADE FROM FULL RANGE OF MANUFACTURES' STANDARDS INCLUDING PREMIUM COLORS.
8. REFER TO FINISH PLANS FOR GENERAL FINISHES. REFER TO ALL SPECIFICATIONS & INTERIOR DRAWINGS (INCLUDING PLANS, ELEVATIONS, RCP, ENLARGED PLANS & DETAILS) FOR COMPLETE INTERIORS INFORMATION.
9. WORK IS NEW, UNLESS NOTED "EXISTING" OR (E).

WALLS AND CEILING:

1. ASSUME LEVEL 4 FINISH FOR ALL GYPSUM BOARD PARTITIONS, UON. REFER TO DIV 09 OF SPECIFICATIONS.
2. FILL MASONRY WALLS BEFORE PAINTING. REFER TO DIV 09 OF SPECIFICATIONS.
3. FOR GYP BD REVEALS AND CONTROL, REFER TO DIV 09 OF SPECIFICATIONS.
4. REFER TO DIV 09 OF SPECIFICATIONS FOR THE SPECIFIC PAINT SYSTEMS AND DIV 01 FOR VOC REQUIREMENTS.
5. CONTRACTOR TO PROVIDE 8 1/2"X11" PAINT SAMPLES OF ALL SPECIFIED PAINT COLORS IN ALL SHEENS INDICATED FOR APPROVAL BEFORE PROCEEDING WITH THE WORK. REFER TO DIV 09 OF SPECIFICATIONS.
6. PAINT SHALL MATCH SPECIFIED MANUFACTURER COLORS INDICATED ON THE FINISH LEGEND.
7. HPC IS HIGH PERFORMANCE COATING. HPC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF HPC COLORS.
8. APC IS ACRYLIC POLYMER COATING. APC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF APC COLORS.
9. PAINT GLOSS LEVEL REFER TO DIV 09 OF SPECIFICATIONS, FOR PAINT SYSTEMS.
   a. PROVIDE LATEX SATIN/EGGSHELL FINISH AT TYPICAL WALLS.
   b. PROVIDE SEMI-GLOSS, HIGH PERFORMANCE COATING (HPC) IN LOCKER ROOM WALLS, FAMILY CHANGING ROOMS, RESTROOMS WITH SHOWERS, POOL SUPPORT ROOMS, POOL WALL & CEILINGS & JANITOR'S CLOSETS.
      [bb. Pool Wall Gyp Bd, RE: Int Elevations for Pool Finishes (APC)]
      [bb. Locker Room Ceilings (APC)]
   c. MECHANICAL, STORAGE, CONCESSIONS/CAFE: SEMI-GLOSS.
   d. TYPICAL WALL PAINT: LATEX SATIN FINISH
   e. TYPICAL GYP. BD. CEILINGS/SOFFITS: LATEX MATTE FINISH
   f. TYPICAL DOORS AND DOOR TRIMS: SEMI-GLOSS
10. FOR PAINT COLOR LOCATIONS SEE INTERIOR ELEVATIONS, FINISH PLANS AND RCP'S.
    a. ALL STORAGE ROOMS, JANITOR CLOSETS, AND MECHANICAL ROOMS THAT DO NOT HAVE PAINT COLORS NOTED, ARE TO BE PAINTED PT01.
    b. IN DRY AREAS CEILING AND SOFFIT COLOR IS PT01, UON. PAINT UNDERSIDE AND FACE OF SOFFIT AS NOTED.
    c. CEILINGS IN SHOWER AREA & FAMILY CHANGING AREA TO BE APC01.
    d. PAINT ALL OPEN STRUCTURE CEILING INCLUDING ALL COMPONENTS PT01 OR HPC01 UON.
    e. PAINT ALL EXPOSED STEEL DECK & STRUCTURE, ALL EXPOSED CEILING AND ALL EXPOSED COMPONENTS. IN POOL MECHANICAL HPC01.
11. WHERE ACCENT PAINTS ARE NOTED ON THE DRAWINGS, COLOR IS TO EXTEND TO THE INSIDE CORNER WHERE INDICATED, UON.
12. ALL METAL GRILLES, PANELS OR PAINTABLE PROTRUSIONS SHALL BE PAINTED SEMI-GLOSS ENAMEL TO MATCH SURFACE ON WHICH THEY OCCUR, UON ON FINISH PLAN OR ELEVATIONS.
13. REFER TO INTERIOR ELEVATIONS & DETAILS FOR ADDITIONAL WALL FINISH INFORMATION.
14. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL SOFFIT & CEILING FINISH INFORMATION.
16. PROVIDE PLYWOOD BACKER WITH NO ADDED UREA FORMALDEHYDE FOR ALL WALL MOUNTED PANELS IN EACH IT ROOM.
17. CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE GYP CORNERS, UON. PROVIDE CORNER GUARD PROFILE, FINISH, COLOR AND HEIGHT PER FINISH LEGEND. SUBMIT SHOP DRAWINGS TO CONFIRM LOCATIONS.

SUBFLOOR TREATMENTS:

1. VAPOR EMISSIONS TESTING REQUIRED BELOW ALL FINISH FLOORS EXCEPT SEALED CONCRETE & WOOD FLOORING. DO NOT INSTALL PRODUCTS UNLESS SLAB(S) MEET MANUFACTURES' STANDARDS. REFER TO SPECIFICATIONS.

FLOOR, WALL AND BASE:

1. ALL EXPOSED CONCRETE FLOORS SHALL BE SEALED UON, REFER TO DIV 3 SPECIFICATIONS. EXCEPTION: POOL DECKS.
2. FLOAT FLOORS AS NECESSARY TO PROVIDE FLUSH TRANSITIONS BETWEEN FLOORING MATERIALS. REFER TO DIV 09 OF PROJECT SPECIFICATIONS.
3. PROVIDE AND INSTALL COVE BASE AT ALL AREAS NOTED TO RECEIVE RUBBER BASE. BASE SHALL BE ROLL GOODS. REFER TO FINISH LEGEND & INTERIOR ELEVATIONS FOR HEIGHT. REFER TO DIV 09 OF PROJECT SPECIFICATIONS.
4. REFER TO FINISH PLANS FOR WALL BASE.
5. CENTER ALL FLOORING TRANSITIONS DIRECTLY UNDER THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. IN AN OPENING WITHOUT A JAMB, RE: FINISH PLANS FOR TRANSITION LOCATION.
6. PROVIDE TRANSITION STRIPS AT ALL CHANGE OF FLOOR MATERIALS. WITH THE LOWEST PROFILE POSSIBLE.
   REFER TO DETAILS AND DIV 09 OF PROJECT SPECIFICATIONS.
7. INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED ON FINISH PLAN.

TILE:

1. COORDINATE PRE-INSTALLATION MEETING FOR PATTERNED WALL AND FLOOR TILE INCLUDING TILE INSTALLER & DESIGNER TO CONFIRM TILE LAYOUT.
2. METAL TRIM PIECES:
   a. METAL TRIM COVE BASE AT ALL TILE LOCATIONS, UON: SCHLUTER METAL TRIM - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
   b. INSIDE/OUTSIDE CORNERS OF WALL TILE - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
   c. TOP CAP SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
3. PROVIDE ALL AVAILABLE CERAMIC OR PORCELAIN TILE TRIM PIECES - COVE, BULLNOSE, INSIDE/OUTSIDE CORNER, ETC.
4. REFER TO ENLARGED PLANS, ENLARGED TILE PATTERN AND INTERIOR ELEVATIONS FOR EXTENT OF TILE & TILE HEIGHTS.
5. EPOXY GROUT TO BE INSTALLED AT ALL SHOWERS AND FAMILY CHANGING SHOWERS - FLOOR AND WALLS. FOR GROUT COLORS REFER TO FINISH LEGEND.

CASEWORK & MILLWORK:

1. REFER TO INTERIOR ELEVATIONS, MILLWORK DETAILS AND FINISH PLANS FOR PLACEMENT OF VARIOUS STAINS AND WOOD SPECIES.
2. CAULK COUNTERS WHERE THEY ABUT WALLS WITH CLEAR CAULK.
3. PROVIDE WALL BLOCKING FOR ALL CABINETRY AND SYSTEMS FURNITURE, RE: ELEVATIONS AND FURNITURE PLANS FOR LOCATIONS AND EXTENT. IF NO STATIONS ARE INDICATED. ASSUME 2 WALLS PER OFFICE.
4. UNEXPOSED INTERIOR SURFACES OF ALL MILLWORK TO BE WHITE MELAMINE, UON REFER TO DIV 06 OF SPECIFICATIONS.

DOORS & FRAMES:

1. PAINT ALL METAL DOORS. PAINT ALL VISION PANEL TRIM, SIDE LIGHTS AND WINDOW FRAMES.
2. IN AREAS WHERE FRAMES ARE DIFFERENT COLORS ON EACH SIDE OF WALL, STOP COLOR SO THAT ONLY ONE COLOR IS VISIBLE WITH THE DOOR IN CLOSED POSITION.

WINDOWS:

1. FOR EXTENT OF WINDOW TREATMENT AND LOCATIONS REFER TO WINDOW AND DOOR TYPE SHEET.

SPECIALTIES:

1. PROVIDE BLOCKING AT ALL WALLS SCHEDULED FOR WALL HUNG EQUIPMENT, SYSTEMS FURNITURE, MARKER BOARD TACK BOARDS, TOILET ACCESSORIES, ETC. RE: PLANS, ELEVATIONS, EQUIPMENT & FURNITURE PLANS.
2. INSTALL FRP ABOVE WALL BASE. RE: FINISH PLANS FOR EXTENT AND FINISH LEGEND FOR COLOR.
3. PROVIDE MARKERBOARD & TACK BOARD AS SPECIFIED ON PLANS AND/OR INTERIOR ELEVATIONS.

DEMOLITION NOTES:

1. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR PROJECT SCOPE.
2. REMOVE EXISTING ARTWORK, SIGNAGE, AND WALL MOUNTED ACCESSORIES WITHIN THE PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
3. REMOVE COMPLETELY FROM THE JOBSITE ALL MATERIALS SPECIFIED FOR DEMOLITION AND NOT NOTED TO BE RETURNED TO OWNER.
4. REPLACE ANY ITEM DEMOLISHED OR DAMAGED BY DEMOLITION AND NOT SPECIFIED WITH A LIKE ITEM AS APPROVED BY OWNER AT NO ADDITIONAL COST.
5. PROTECT ALL EXISTING FLOOR, WALL, DOOR AND CEILING FINISHES TO REMAIN. REPAIR AN DAMAGE AS A RESULT OF DEMOLITION OR CONSTRUCTION.
6. REMOVE EXISTING FLOORING, ADHESIVE AND MASTIC AT ALL EXISTING FLOORS SCHEDULED FOR DEMOLITION. PATCH AND PREP SUBFLOOR TO MEET MANUFACTURER'S REQUIREMENTS FOR NEW FLOORING MATERIALS. FLOAT SUBFLOOR AS NECESSARY TO ALIGN FINISHED SURFACE BETWEEN NEW FLOORING AND EXISTING TO REMAIN.
7. DEMOLISH AND STORE ALL EXISTING CORNER GUARDS AND WALL MOUNTED EQUIPMENT PRIOR TO CONSTRUCTION, UON.

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STATE OF COLORADO — KEITH HAYES — 203023 — 1/24/2026 — LICENSED ARCHITECT

Project Number:	2025.009
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Drawn By:	AB
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GENERAL FINISH NOTES

A901

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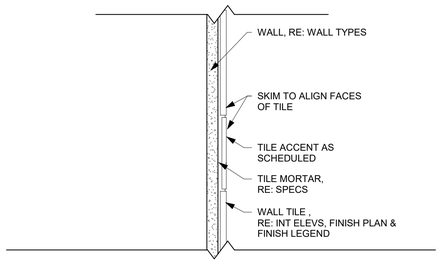
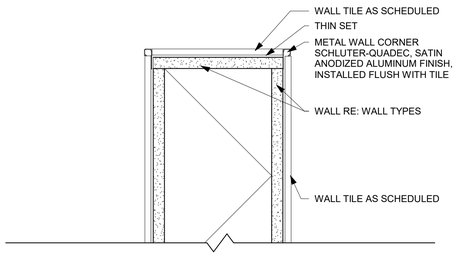
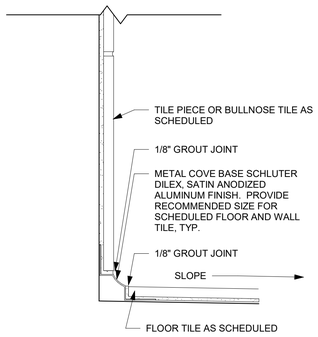
FINISH LEGEND						
TAG	MANUFACTURER	PRODUCT LINE	STYLE	COLOR	SIZE	NOTES
03 3511 - Concrete Floor Finishes						
CONC01			POOL DECK SWIRL BROOM FINISH			
CONC02			LOW GLOSS CLEAR SEALER			
06 4023 - Plastic Laminates						
PL01	FORMICA	DECO METAL		M5312-99 BRUSHED UMBRA		FRONT OF CONTROL DESK IN LOBBY
PL02	FORMICA	FENIX		BEIGE ARIZONA J0748		DESK AND GUARD ROOM
PL03	FORMICA	ANTIBICROBIAL	MATTE	FOG		LOWER CABINETS IN GUARD ROOM
PL04	FORMICA	ANITMICROBIAL	WOOD BRUSH	NATURAL ASH 8843-WR		UPPER CABINETS IN GUARD ROOM
06 6310 - Plastic Fabricated Benches						
PN01	TANGENT TECHNOLOGIES	DIMENSIONAL NEUTRALS		SAND		LOCKER ROOM BENCHES
09 3000 - Ceramic Tile						
CWT01	DALTILE	COLOR WHEEL LINEAR		ARTIC WHITE 0190 SEMI-GLOSS	4"X12"	FIELD TILE
CWT02	DALTILE	MYTHOLOGY		CHRONOS MY93 UNDULATED	4"X12"	ACCENT IN WOMEN'S LOCKER ROOM
CWT03	DALTILE	COLOR WHEEL LINEAR		SEA BREEZE 1174 SEMI-GLOSS	4"X12"	ACCENT IN MEN'S LOCKER ROOM
CWT04	DALTILE	MYTHOLOGY		AURA MY95 UNDULATED	4"X12"	ACCENT IN GUARD ROOM
09 3000 - Porcelain Tile						
POR01	DALTILE	KEYSTONES		DESERT GRAY D014 / DESERT GRAY SPECKLE BLEND D200	1"x 1"	60% SOLID 40% SPECKLED BLEND
POR02	DALTILE	KEYSTONES		SUEDE GRAY D182 / SUEDE GRAY SPECKLE BLEND D208	2"x 2"	60% SOLID 40% SPECKLED BLEND
POR03	DALTILE	KEYSTONES		DESERT GRAY D014 / DESERT GRAY SPECKLE D200 / AEGAN BLEND D192	1"x 1"	40% AEGAN 30% DESERT GRAY 30% DESERT GREY SPECKLE
POR04	DALTILE	KEYSTONES		DESERT GRAY D014 / DESERT GRAY SPECKLE D200 / NAVY SPECKLE BLEND D209	1"x 1"	40% NAVY SPECKLE 30% DESERT GRAY 30% DESERT GREY SPECKLE
POR05	DALTILE	KEYSTONES		AQUA GLOW D197	2"x 2"	FAMILY RR ACCENT
09 3050 - Tile Setting Materials and Accessories						
TS01	SCHLUTER	SCHIENE		SATIN ANODIZED ALUMINUM FINISH	COORDINATE SIZES WITH SCHEDULED WALL TILE	AT ALL EXPOSED TILE EDGES ON WALLS
TS02	SCHLUTER	DILEX	AHKA	SATIN ANODIZED ALUMINUM FINISH	COORDINATE SIZES WITH SCHEDULED FLOOR AND WALL TILE	AT ALL TILE WALL TO TILE FLOOR CONDITIONS
09 3060 - Tile Adhesives Mortars and Grouts						
GT01	LATICRETE			95 MINK		PROVIDE AT ALL WALL TILE
GT02	LATICRETE			87 STORMY GREY		PROVIDE AT ALL FLOOR TILE
09 6513 - Resilient Base						
RB01	Johsonite	Baseworks	TG3	Iron Mountain CG	4"	
09 7720 - Decorative Fiberglass Reinforced Wall Panels						
FRP01	MARLITE	SYMMETRIX W/ SANI-COAT	SUBWAY	WHITE PANEL WITH WHITE GROOVES SS100 G63R1	4' x 8'	FULL HEIGHT IN WALLS IN GUARDS ROOM
09 9123 - Interior Painting						
PT01	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS	ORIGAMI WHITE SW7636		FIELD COLOR - LOBBY
PT02	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS	MOODY BLUE SW6221		ACCENT IN LOBBY
PT03	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS	PRIVILEGE GREEN SW6193		ABOVE CWT-02 WHERE APPLICABLE
PT04	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS	FRANK BLUE SW6967		ABOVE CWT-03 WHERE APPLICABLE
PT05	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS	SNOWBOUND SW7004		ABOVE CWT-01 WHERE APPLICABLE
PT06	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS			DOOR FRAME
PT07	SHERWIN WILLIAMS	PROMAR 200	SEMI-GLOSS			DOOR PANEL
10 2113 - Toilet Compartments						
PN02	Bobrick	SIERRA SERIES	SCRC	COLOR TO BE SELECTED FROM MANUFACTURER'S FULL COLOR LINE		
12 3600 - Countertops						
SS01	CAMBRIA	Solid Surface		EXCAVAGE	2cm	DESKTOP
SS02	WILSONART			POWDER WHITE 9230SS	2cm	



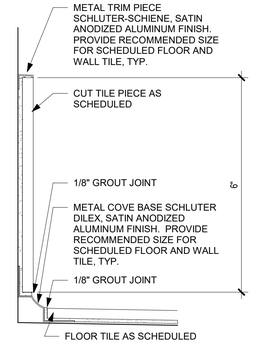
5 A902 PORCELAIN TILE TYP.
3" = 1'-0"



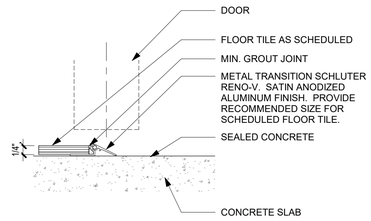
4 A902 TILE WALL END WITH METAL CORNERS
3" = 1'-0"



3 A902 METAL COVE BASE W/ WALL TILE
6" = 1'-0"



2 A902 METAL COVE BASE W/ TILE AND METAL TRIM
6" = 1'-0"



1 A902 CERAMIC TILE TO CONCRETE FLOORING TRANSITION
6" = 1'-0"

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STATE OF COLORADO
KEITH HAYES
209023
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FINISH LEGEND & DETAILS

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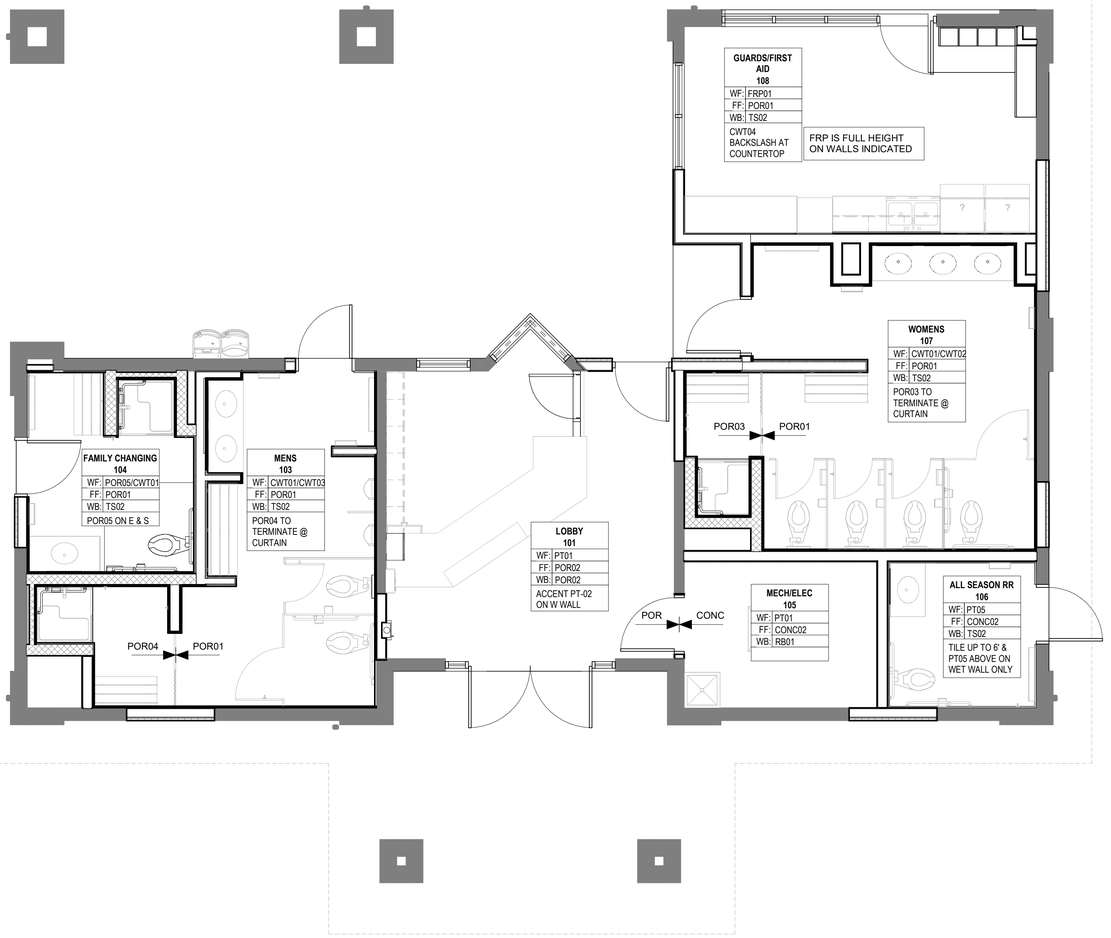

1 A911 FINISH FLOOR PLAN - BATHHOUSE
1/4" = 1'-0"

2' 4' 8'

PROJECT TRUE

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FIRST FLOOR FINISH PLAN - BATHHOUSE

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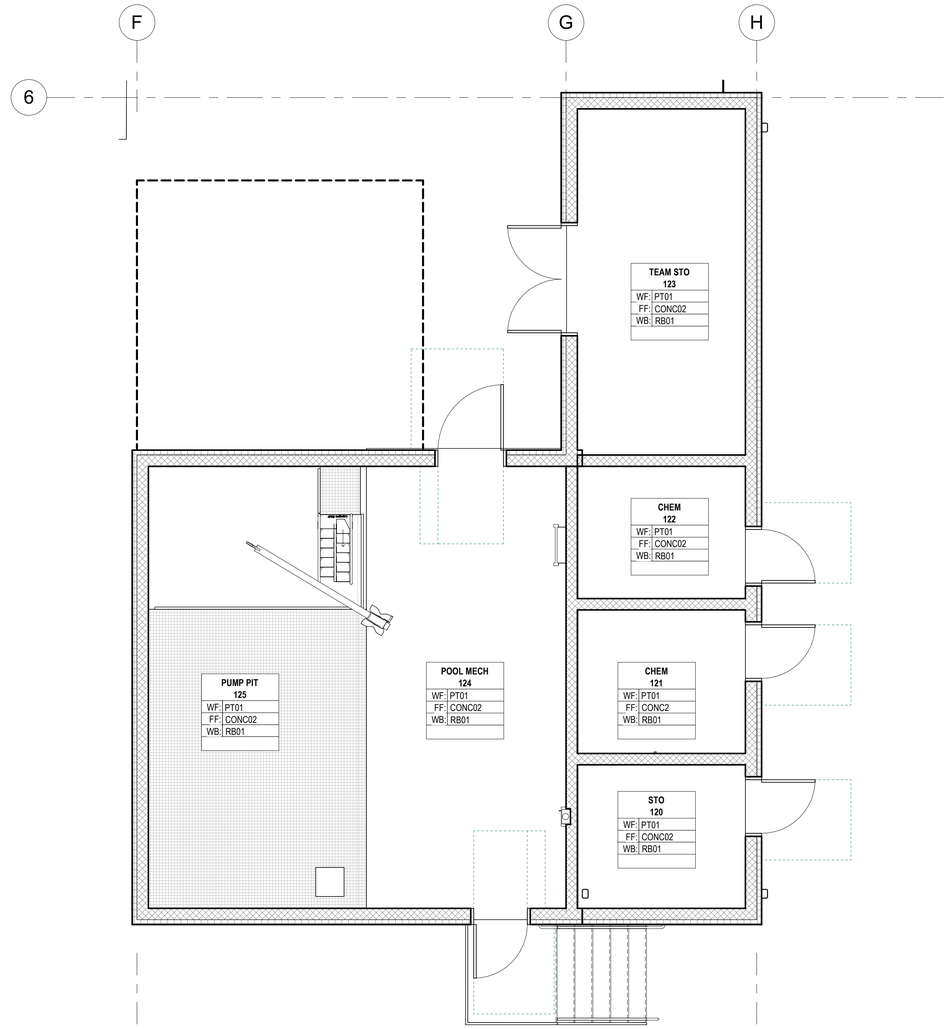

1 A912 FINISH FLOOR PLAN - AUX. MECH BUILDING

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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FIRST FLOOR FINISH PLAN - POOL AUX

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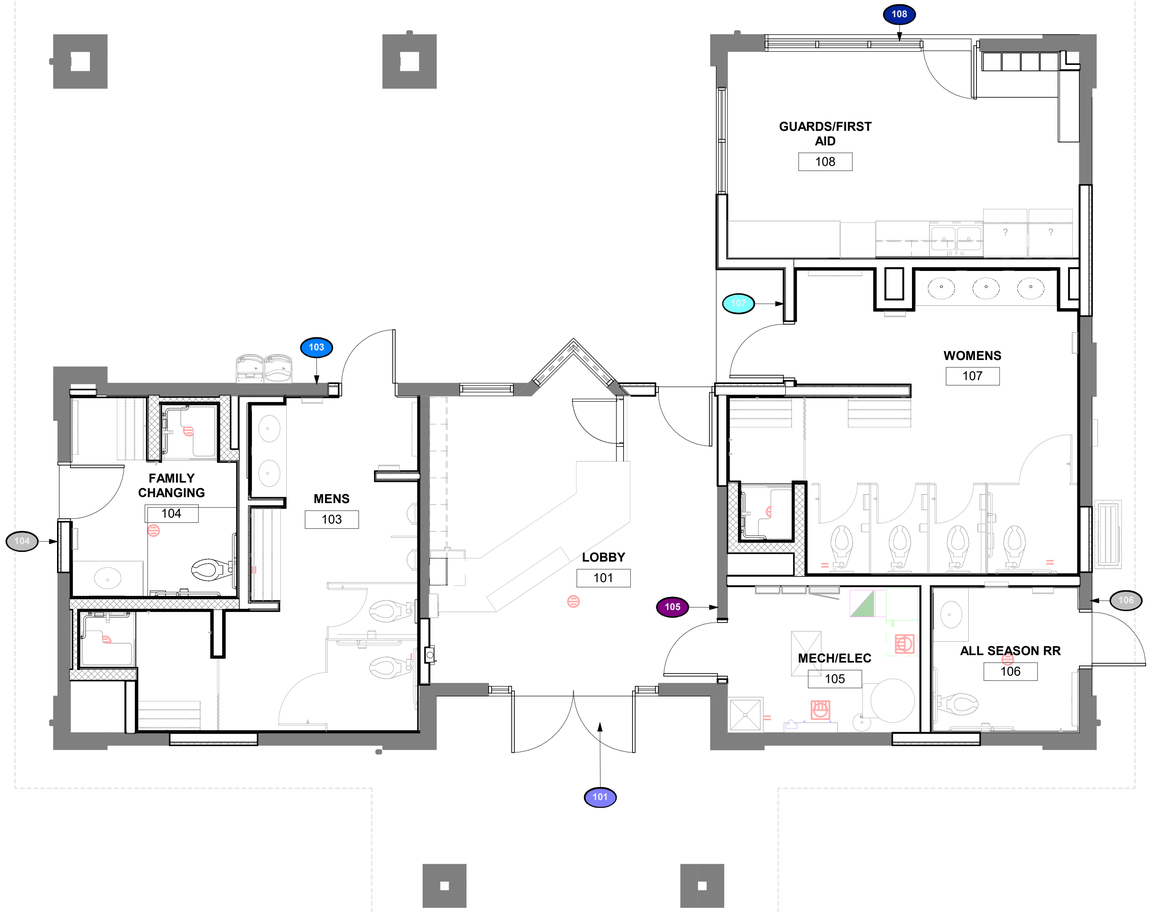

SIGNAGE LEGEND

- A — PUBLIC ROOM SIGNAGE
- A.1 — PUBLIC RESTROOM SIGNAGE
- A.2 — PUBLIC RESTROOM SIGNAGE
- A.3 — PUBLIC RESTROOM SIGNAGE
- B — NON-PUBLIC ROOM SIGNAGE
- E — EXIT SIGN
- F — OCCUPANCY SIGN
- G — FACILITIES MESSAGING

1 / A950 SIGNAGE FLOOR PLAN - BATHHOUSE
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO
KEITH HAYES
29023
LICENSED ARCHITECT
1/2/2026

Project Number: 2025.009
Issue: 100% CONSTRUCTION DOCUMENTS
Date: 01.09.2026
Drawn By: SF
Checked By: MH

Revisions:

Description	Date:

Sheet title:
SIGNAGE PLAN - BATHHOUSE

A950

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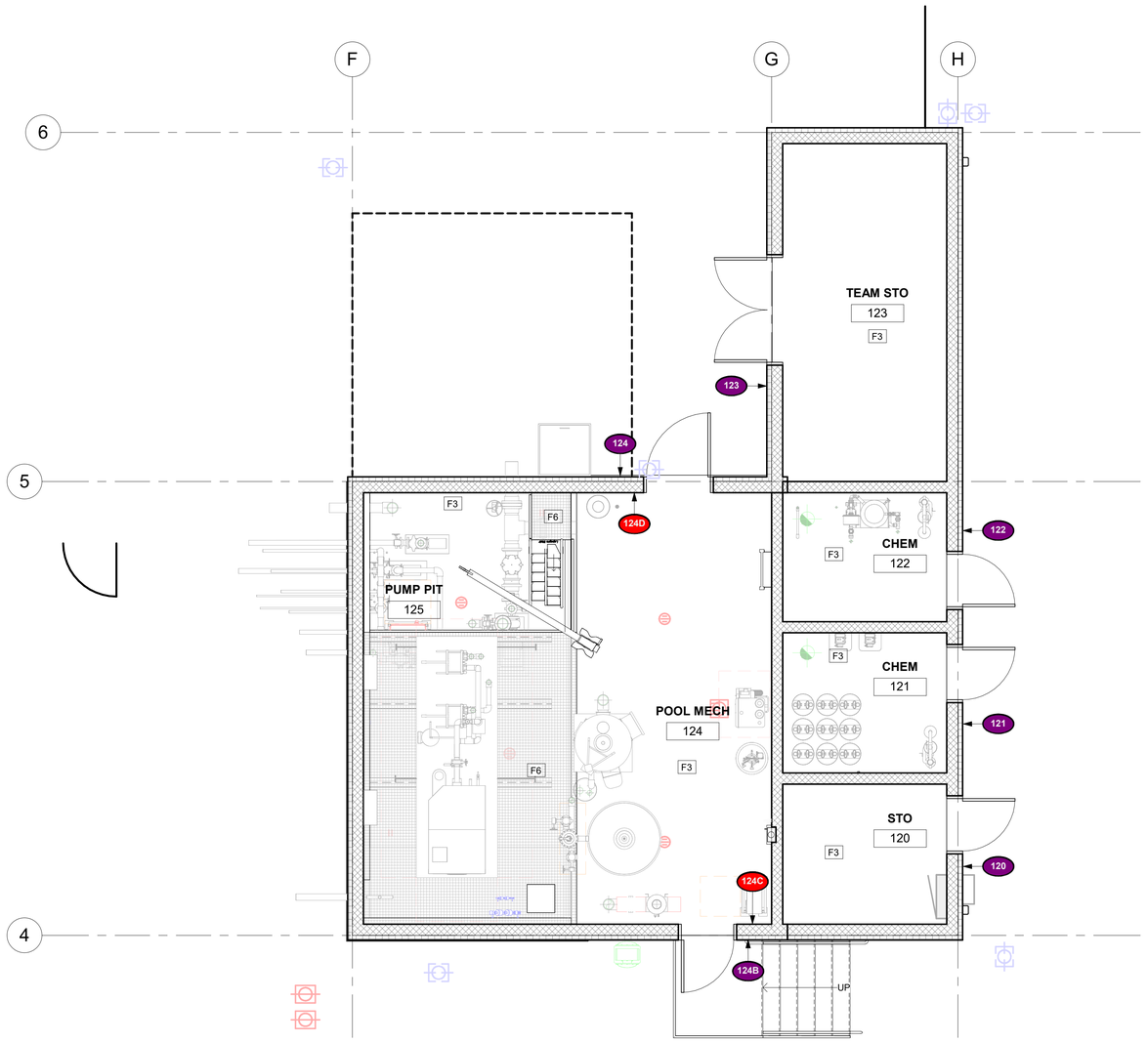

1 A951 SIGNAGE FLOOR PLAN - AUX. MECH BLDG
1/4" = 1'-0"

SIGNAGE LEGEND

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North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

STATE OF COLORADO KEITH HAYES 203023 LICENSED ARCHITECT 1/24/2026

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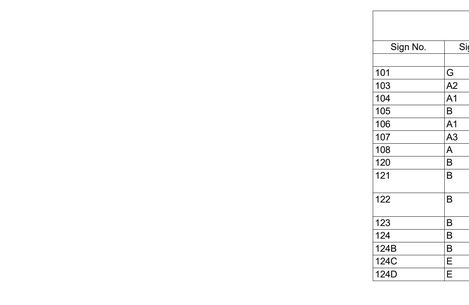
SIGNAGE SCHEDULE

Sign No.	Sign Type	Room Name	Rm. No.	Sign Description	Sign Message	Mounting Location	Comments
101	G	LOBBY	101	VINYL LETTERING	HOURS OF OPERATION	GLASS	CONFIRM VERBIAGE WITH CLIENT
103	A2	MENS	103	PUBLIC RESTROOM SIGNAGE	MENS RESTROOM	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
104	A1	FAMILY CHANGING	104	PUBLIC RESTROOM SIGNAGE	FAMILY RESTROOM	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
105	B	MECH/ELEC	105	NON-PUBLIC ROOM SIGN	MECH / ELEC	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
106	A1	ALL SEASON RR	106	PUBLIC RESTROOM SIGNAGE	RESTROOM	WALL	CONFIRM VERBIAGE WITH CLIENT
107	A3	WOMENS	107	PUBLIC RESTROOM SIGNAGE	WOMENS RESTROOM	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
108	A	GUARDS/FIRST AID	108	PUBLICROOM SIGNAGE	GUARDS OFFICE	EXTERIOR GLASS	PROVIDE BACKER PANEL. CONFIRM VERBIAGE WITH CLIENT
120	B	STORAGE	120	NON-PUBLIC ROOM SIGN	CHEMICAL	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
121	B	CHEMICAL	121	NON-PUBLIC ROOM SIGN	CHEMICAL	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT, EYEWASH, SEE AQUATICS FOR ADDITIONAL SIGNAGE REQUIREMENTS
122	B	CHEMICAL	122	NON-PUBLIC ROOM SIGN	CHEMICAL	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT, EYEWASH, SEE AQUATICS FOR ADDITIONAL SIGNAGE REQUIREMENTS
123	B	TEAM STORAGE	123	NON-PUBLIC ROOM SIGN	STORAGE	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
124	B	POOL MECH	124	NON-PUBLIC ROOM SIGN	POOL MECH	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
124B	B	POOL MECH	124	NON-PUBLIC ROOM SIGN	POOL MECH	EXTERIOR WALL	CONFIRM VERBIAGE WITH CLIENT
124C	E	POOL MECH	124	EXIT SIGNAGE	EXIT	WALL	CONFIRM VERBIAGE WITH CLIENT
124D	E	POOL MECH	124	EXIT SIGNAGE	EXIT	WALL	CONFIRM VERBIAGE WITH CLIENT

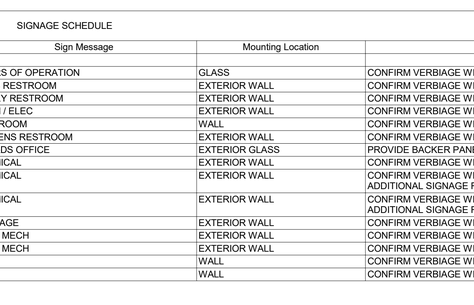
SIGN TYPE A - PUBLIC ROOM SIGNAGE



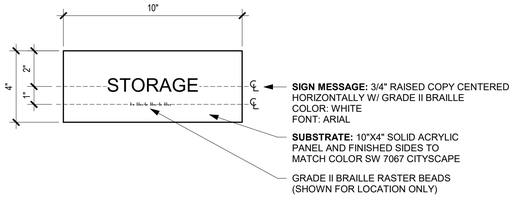
SIGN TYPE A.1 - PUBLIC RESTROOM SIGNAGE



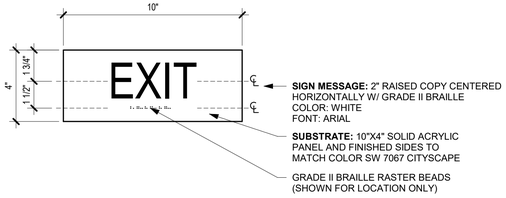
SIGN TYPE A.2 - PUBLIC RESTROOM SIGNAGE



SIGN TYPE A.3 - PUBLIC RESTROOM SIGNAGE



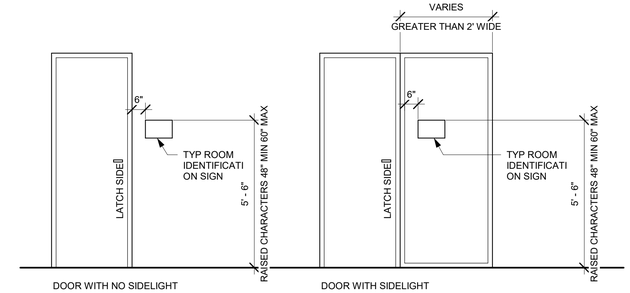
SIGN TYPE B - NON-PUBLIC ROOM SIGNAGE



SIGN TYPE E - EXIT SIGNAGE

NOTES:
1. COMPUTER CUT VINYL LETTERS
2. LETTERS TO BE APPLIED TO THE OUTSIDE OF GLASS SIDELIGHT AT BUILDING ENTRY
3. EXACT LOCATIONS TBD
4. VERIFY LOCATIONS AND GLASS SIZE FOR MAXIMUM LINE LENGTH AND HEIGHT
5. PROVIDE LAYOUT FOR OWNER APPROVAL

SIGN TYPE G - FACILITIES MESSAGING



2 A970 SIGN TYPES
3" = 1'-0"

1 A970 SIGN MOUNTING DIAGRAM
3/8" = 1'-0"

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SIGNAGE DRAWINGS AND DETAILS

A970

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STRUCTURAL GENERAL NOTES

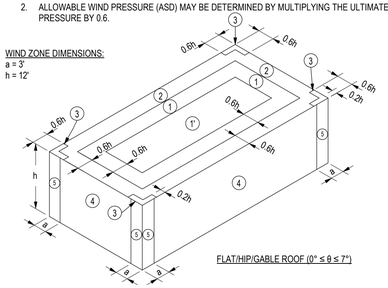
DESIGN LOADS:

1. DESIGN LOADS: 2018 INTERNATIONAL BUILDING CODE WITH TOWN OF SUPERIOR AMENDMENTS, ASCE 7-16
2. RISK CATEGORY: II STANDARD
3. ROOFS:
   - A. ROOF DEAD LOAD 20 PSF
   - B. ROOF LIVE LOAD 30 PSF
   - C. GROUND SNOW LOAD, Pg 30 PSF
   - D. FLAT-ROOF SNOW LOAD, Pf 30 PSF
   - E. SNOW EXPOSURE FACTOR, Ce 1.0
   - F. SNOW IMPORTANCE FACTOR, Is 1.0
   - G. THERMAL FACTOR, Ct 1.0
4. FLOOR LIVE LOADS:

OCCUPANCY OR USE	UNIFORMLY DISTRIBUTED (PSF)	CONCENTRATED LOAD (LBS)	LIVE LOAD REDUCTION
MECHANICAL POOL ROOM	125	2,000	YES

5. WIND:
   - A. BASIC DESIGN WIND SPEED, V, (3-SECOND GUST) 154 MPH
   - B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD}, (3-SECOND GUST) 110 MPH
   - C. INTERNAL PRESSURE COEFFICIENT, GC_{pi} ±0.18 (ENCLOSED)
   - D. WIND EXPOSURE C
   - E. GROUND ELEVATION FACTOR, K_e 0.82
   - F. COMPONENTS AND CLADDING ULTIMATE DESIGN WIND PRESSURES
     1. PRESSURES MAY BE REDUCED FOR EFFECTIVE WIND AREAS LARGER THAN 10 SQUARE FEET, BUT NOT BELOW 16 PSF.
     2. ALLOWABLE WIND PRESSURE (ASD) MAY BE DETERMINED BY MULTIPLYING THE ULTIMATE PRESSURE BY 0.6.

WIND ZONE DIMENSIONS:
a = 3'
h = 12'



FLAT/HIP/GABLE ROOF (0° ≤ θ ≤ 7°)

COMPONENT AND CLADDING ULTIMATE WIND PRESSURE - FLAT ROOF

ROOF (EFFECTIVE WIND AREA)	ROOF SURFACE PRESSURE (psf)	
	10 sf	100 sf
Negative Zone 1	-67.4	-52.7
Negative Zone 1'	-38.7	-38.7
Negative Zone 2	-89.0	-70.0
Negative Zone 3	-121.2	-83.2
Positive Zone 1 & 1'	17.2	16.0
Positive Zone 2 & 3	17.2	16.0
Overhang Zone 1 & 1'	-61.0	-57.4
Overhang Zone 2	-82.5	-57.2
Overhang Zone 3	-82.5	-70.4

WALL (EFFECTIVE WIND AREA)	WALL SURFACE PRESSURE (psf)	
	10 sf	100 sf
Negative Zone 4	-42.0	-36.3
Negative Zone 5	-51.7	-40.2
Positive Zone 4 & 5	38.7	-33.0

SOLID PARAPET PRESSURE (psf) - FLAT ROOF

WIND DIRECTION	PARAPET (EFFECTIVE WIND AREA)	PARAPET SURFACE PRESSURE (psf)	
		10 sf	100 sf
CASE A	Positive Zone 4 + Negative Zone 2	114.8	90.1
CASE A	Positive Zone 5 + Negative Zone 3	147.1	103.4
CASE B	Positive Zone 4 + Negative Zone 4	-67.8	-56.4
CASE B	Positive Zone 5 + Negative Zone 5	-77.5	-60.4

   - G. PARAPET NOTES:
     1. CASE A APPLIES TO WINDWARD PARAPETS.
     2. CASE B APPLIES TO LEEWARD PARAPETS.
6. SEISMIC:
   - A. SPECTRAL RESPONSE ACCELERATION PARAMETERS
     1. SHORT PERIOD
        - a. S_S 0.225g
        - b. S_{DS} 0.24g
     2. ONE SECOND
        - a. S_1 0.06g
        - b. S_{D1} 0.096g
   - B. SOILS SITE CLASS D
   - C. SEISMIC IMPORTANCE FACTOR, Ie 1.0
   - D. SEISMIC DESIGN CATEGORY B
   - E. BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)
     - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
   - F. DESIGN BASE SHEAR(S) 0.011W KIPS
   - G. SEISMIC RESPONSE COEFFICIENT(S), C_S 0.06
   - H. RESPONSE MODIFICATION COEFFICIENT(S), R 3.5
   - I. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

FOUNDATION DESIGN:

1. REFER TO SOILS REPORT NO. 25255038 BY TERRACON, DATED 06/25/2025.
2. GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITIONS AND TYPES DURING EXCAVATION AND PRIOR TO PLACEMENT OF FORMWORK OR CONCRETE.
3. FROST DEPTH SHALL BE 3'-0 MINIMUM BELOW EXTERIOR GRADE.
4. ALL GRADE BEAMS, PIER CAPS, AND WALLS SHALL BE CONSTRUCTED OVER AN 12" HIGH VOID.
5. ALL STRUCTURAL SLABS ON VOID SHALL BE CONSTRUCTED OVER AN 12" HIGH VOID.

DRILLED PIERS (CAST-IN-PLACE DEEP FOUNDATIONS):

1. STRAIGHT SHAFT DRILLED PIERS ARE DESIGNED FOR
   - A. MAXIMUM END BEARING PRESSURE 20,000 PSF
   - B. ALLOWABLE SIDE SHEAR 1,500 PSF
   - C. UPLIFT SIDE SHEAR 1,500 PSF.
   - D. MINIMUM PENETRATION INTO BEDROCK 10 FEET
   - E. MINIMUM TOTAL LENGTH 25 FEET
2. SEE PLANS FOR ADDITIONAL PENETRATION AND LENGTH REQUIREMENTS.
3. ASSUMED AVERAGE USGS TOP OF BEDROCK ELEVATION, FOR BIDDING PURPOSES ONLY, SHALL BE XXX'-X.
4. SEE BORING LOGS IN THE SOILS REPORT FOR INDICATED VARIATION IN BEDROCK SURFACE.
5. MUSHROOMING AT THE TOPS OF PIERS IS NOT PERMITTED.
6. PROVIDE FOR OVERRUN OR UNDERRUN IN DRILLING LENGTHS AND INSTALLED QUANTITIES OF CONCRETE AND REINFORCING.
7. PIER HOLES SHALL BE THOROUGHLY CLEANED AND DEWATERED AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. CASING OF DRILLED PIER HOLES MAY BE REQUIRED.
8. USE OF SLURRY DURING INSTALLATION OF DRILLED PIERS SHALL CONFORM TO REQUIREMENTS OF ACI 336. CONTRACTOR SHALL SUBMIT WRITTEN PROCEDURE FOR DESIGN TEAM AND GEOTECHNICAL ENGINEER REVIEW. IDENTIFY SLURRY COMPOSITION, MIXING, AND STORAGE; AUGER AND CASING SIZES FOR EACH SPECIFIED DRILLED PIER DIAMETER; METHOD OF CLEANING EXCAVATION; PROCEDURE FOR TEMPORARY CASING REMOVAL DURING CONCRETE PLACEMENT.

EARTH RETAINING STRUCTURES:

1. EARTH EQUIVALENT FLUID LATERAL PRESSURE:
   - A. WALLS RESTRAINED AT TOP (AT REST) 85 PCF
   - B. CANTILEVERED WALLS (ACTIVE) 65 PCF
   - C. PASSIVE RESISTING 250 PCF
2. COEFFICIENT OF SLIDING FRICTION 0.35

REINFORCED CONCRETE:

1. DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2. CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE."
3. STRUCTURAL CONCRETE SHALL HAVE THE PROPERTIES INDICATED IN THE CONCRETE MIX TABLE.
4. CONCRETE MIX TABLE NOTES:
   - A. CONCRETE MIX SUBMITTAL SHALL INCLUDE A SINGLE PAGE LIST OF MIXES, IN TABULAR FORMAT, WITH KEY MIX REQUIREMENTS.
   - B. N/R: NO REQUIREMENT, NO STRUCTURAL REQUIREMENTS.
   - C. SLUMP:
     1. VALUES INDICATED ARE SUGGESTED BASED ON USE AND TYPICAL PLACEMENT METHODS. SUPPLIER MAY ADJUST SLUMP AS NECESSARY FOR FIELD CONDITIONS AND INSTALLATION METHOD USED.
     2. CONCRETE SUPPLIER TO PROVIDE TARGET SLUMP ON BATCH TICKETS FOR TESTING AGENCY QUALITY CONTROL.
   - D. CEMENT SHALL CONFORM TO ASTM C150, ASTM C595, OR ASTM C1157. ADDITIONAL REQUIREMENTS AS NOTED IN THE MIX TABLE:
     1. II = ASTM C150 TYPE II
     2. V = ASTM C150 TYPE V
     3. MS = ASTM C595 OR ASTM C1157 TYPES WITH (MS) DESIGNATION
     4. HS = ASTM C595 OR ASTM C1157 TYPES WITH (HS) DESIGNATION
   - E. AIR CONTENT:
     1. N/P: AIR ENTRAINING ADMIXTURES NOT PERMITTED, ENTRAPPED AIR ONLY
     2. N/R: NO REQUIREMENT, NO STRUCTURAL AIR CONTENT REQUIREMENTS
   - F. CHLORIDE ION: MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
   - G. ADMIXTURES/COMMENTS
     1. SCM: LIMITS ON MAXIMUM SCM CONTENT PER ACI 318 TABLE 26.4.2.2(b)
     2. AAR: PROVIDE DOCUMENTATION THAT AGGREGATES ARE NOT ALKALI-SILICA REACTIVE OR CALCI-CARBONATE REACTIVE PER ASTM C1778.
     3. CONCRETE COVER: INCREASE MINIMUM CONCRETE COVER TO 2" FOR WALLS AND TOP OF SLABS, AND 2-1/2" FOR ALL OTHERS UNLESS DETAILED OTHERWISE.
     4. SHRINKAGE: MIXES NOTED AS "SHRINKAGE XX%" SHALL BE LIMITED TO A MAXIMUM DRYING SHRINKAGE STRAIN (0.05% UNLESS NOTED OTHERWISE) AT 28 DAYS (500 MICROSTRAIN) AS MEASURED BY ASTM C157. SHRINKAGE TEST RESULTS TO BE INCLUDED WITH MIX DESIGN SUBMITTAL.
   - H. GENERAL CONTRACTOR TO COORDINATE CONCRETE MOISTURE LEVEL AND ANTICIPATED MOISTURE MITIGATION PROCEDURES WITH CONCRETE SUPPLIER/MIX DESIGNER AND OTHER AFFECTED SUBCONTRACTORS (INCLUDING BUT NOT LIMITED TO FLOORING) TO ADDRESS ALL POTENTIAL SCHEDULE AND INSTALLATION CONFLICTS.
5. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
7. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT BARS SHOWN TO BE FIELD-BENT SHALL BE ASTM A706, GRADE 60.
8. EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM A775 (STRAIGHT BARS) AND ASTM A934 (PRE-FABRICATED BARS).
9. ZINC COATED (GALVANIZED) REINFORCING BARS SHALL CONFORM TO ASTM A767.
10. BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
11. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, LAP BARS PER THE CONCRETE LAP SPLICE SCHEDULE.
12. AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS FOR EACH LAYER OF REINFORCEMENT.
13. TRIM OPENINGS IN WALLS AND STRUCTURAL CONCRETE SLABS WITH (2) #5 FOR EACH LAYER OF REINFORCEMENT, FULLY DEVELOPED BY EXTENSION OR HOOK.
14. IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.
15. FORM INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL DRAWINGS.
16. EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   - A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   - B. EXPOSED TO EARTH OR WEATHER:
     1. #6 THROUGH #18 BARS 2"
     2. #5 BAR, W31 OR D31 WIRE, AND SMALLER 1-1/2"
   - C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     1. SLABS, WALLS, JOISTS: #11 BARS AND SMALLER 3/4"
     2. BEAMS AND COLUMNS:
        - a. PRIMARY REINFORCEMENT 1-1/2"
        - b. STIRRUPS, TIES, SPIRALS 1-1/2"
17. FIBER ADMIXTURE SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS, TYPE III 4.1.3, PERFORMANCE LEVEL ONE, PER ASTM C1116.
18. ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING TEMPLATES.

CONCRETE MIX TABLE

INTENDED USE	Freeze Exposure	Sulfate Exposure	Water Exposure	Corrosion Exposure	EXPOSURE CLASS	COMPRESSIVE STRENGTH, f'c PSI	COMPRESSIVE STRENGTH, f'c TESTING AGE, DAYS	CONCRETE WEIGHT	CEMENT TYPE	MAX W/CM RATIO	MAXIMUM AGGREGATE SIZE	SLUMP, INCHES (+/- 1")	AIR CONTENT PERCENT (+/- 1.5%)	MAXIMUM CHLORIDE ION, (Cl-)	MIX NOTES/ COMMENTS
DRILLED PIERS	0	0	0	1	F0-S0-W0-C1	4000	56	NW	N/R	N/R	1"	7"	N/R	0.30%	
GRADE BEAMS	2	0	1	1	F2-S0-W1-C1	4500	56	NW	N/R	0.45	3/4"	N/R	6%	0.30%	AAR
SLAB ON GRADE - EXTERIOR	3	0	1	0	F3-S0-W1-C0	5000	28	NW	N/R	0.40	3/4"	N/R	6%	1.00%	SCM; AAR
STOOP	3	0	1	2	F3-S0-W1-C2	5000	56	NW	N/R	0.40	3/4"	N/R	6%	0.15%	SCM; CONCRETE COVER; AAR
FORMED STRUCTURAL SLAB	0	0	0	0	F0-S0-W0-C0	5000	28	NW	N/R	N/R	3/4"	N/R	N/R	1.00%	

POST-INSTALLED ANCHORS

1. ALL CAST-IN-PLACE ANCHORS DESIGNED IN ACCORDANCE WITH ACI 318.
2. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
3. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. EXISTING REINFORCING BARS SHALL NOT BE CUT UNLESS APPROVED BY THE ENGINEER OF RECORD.
4. ALL ANCHORS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT DEPTH AS INDICATED ON THE DRAWINGS. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MPII.
5. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER; REGISTRATION MUST BE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
6. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO THE ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE ENGINEER OF RECORD/ SPECIAL INSPECTOR AS REQUESTED.
7. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI ([ACI 318-11 D 9.2.2], [ACI 318-14 17.8.2.2], [ACI 318-19 17.2.3]). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
8. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS ([ACI 318-11 D 2.2], [ACI 318-14 17.1.2], [ACI 318-19 17.2.2])
9. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN DRY HOLES THAT HAVE BEEN DRILLED, CLEANED, AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION AND THE RESPECTIVE ICC-ES EVALUATION REPORTS.
10. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC TABLE 1705.3, NOTE B).

CONCRETE POST-INSTALLED ANCHORS

ANCHOR TYPE	DEWALT	HILTI	SIMPSON
EXPANSION	POWER-STUD+ SD2 (ICC ESR-2502)	KWIK BOLT TZ2 (ICC ESR-4266)	STRONG-BOLT 2 (ICC ESR-3037)
SCREW	SCREW-BOLT+ (ICC ESR-3889)	KWIK HUS-EZ (ICC ESR-3027)	TITEN HD (ICC ESR-2713)
ADHESIVE	AC200+ (ICC ESR-4027)	HIT HY-200 V3 (ICC ESR-4868)	AT-3G (ICC ESR-5026)

MASONRY POST-INSTALLED ANCHORS

ANCHOR TYPE	DEWALT	HILTI	SIMPSON
EXPANSION	POWER-STUD+ SD1 (ICC ESR-2966)	KWIK BOLT TZ2 (ICC ESR-4561)	STRONG-BOLT 2 (UES ER-240)
SCREW	SCREW-BOLT+ (ICC ESR-4042)	KWIK HUS-EZ (ICC ESR-3056)	TITEN HD (ICC ESR-1056)
ADHESIVE	AC100+ GOLD (ICC ESR-3200)	HIT HY-270 (ICC ESR-4143 / 4144)	SET-3G (ICC ESR-4844)

STRUCTURAL MASONRY:

1. GENERAL CONTRACTOR SHALL HOLD A MASONRY PRECONSTRUCTION MEETING AT THE PROJECT SITE WITH REPRESENTATION FROM THE GC, MASON, TESTING AGENCY AND STRUCTURAL ENGINEER.
2. GENERAL CONTRACTOR SHALL SUBMIT COORDINATED ELEVATION DRAWINGS FOR REVIEW OF ALL MASONRY WALLS SHOWING:
   - A. ALL CONTROL JOINTS, BOND BEAMS, BEAM AND JOIST POCKETS, AND OPENINGS INCLUDING MECHANICAL AND PLUMBING PENETRATIONS GREATER THAN 3" IN ANY DIMENSION.
   - B. TYPICAL WALL REINFORCING
   - C. ADDITIONAL WALL REINFORCING AT MASONRY LINTELS, JAMBS, OPENINGS, AND AS NOTED ON STRUCTURAL DRAWINGS.
3. DESIGN IS BASED ON TMS 402/602, "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"
4. 28-DAY COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY USED FOR DESIGN IS 2,000 PSI, BASED ON NET-BEDDED AREA.
5. MASONRY LINTELS SHALL USE STANDARD LINTEL UNITS. BOND BEAMS SHALL USE UNITS PRODUCED FROM STANDARD VERTICALLY VOIDED UNITS WITH PRE-CUT KNOCKOUT CROSS WALLS.
6. HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT, 85 TO 105 PCF DENSITY, CONFORMING TO ASTM C90, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI BASED ON AVERAGE NET AREA.
7. FACING BRICK SHALL CONFORM TO ASTM C216 GRADE SW.
8. BUILDING BRICK SHALL CONFORM TO ASTM C62 GRADE SW.
9. HOLLOW BRICK SHALL CONFORM TO ASTM C652, GRADE SW.
10. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270.
11. MASONRY CEMENT SHALL NOT BE USED UNLESS PART OF A PRE-PACKAGED MORTAR OR GROUT MIX APPROVED BY THE STRUCTURAL ENGINEER.
12. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
13. GROUT USED IN MASONRY WALLS AND BLOCK CELLS SHALL BE COARSE GROUT, AS DEFINED BY ARTICLE 2.2 OF TMS 602, WITH A MINIMUM CUBE STRENGTH = 2,000 PSI OR 3,000 PSI CONCRETE USING 3/8" DIAMETER AGGREGATE AND PLACED BY VIBRATING UNLESS AN APPROVED SELF-CONSOLIDATING MIX IS USED.
14. PLACEMENT OF MORTAR, GROUT, MASONRY UNITS AND WALL TIES SHALL COMPLY WITH TMS 602.
15. PROVIDE MORTAR FOR FULL THICKNESS OF SHELL IN ALL HEAD AND BED JOINTS.
16. 'LOW-LIFT' GROUTING SHALL NOT EXCEED 5'-4" IN HEIGHT UNLESS TMS 602 'HIGH-LIFT' GROUTING PROCEDURES ARE REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
17. VERTICALLY SPACE CONTINUOUS HORIZONTAL JOINT REINFORCING AT 16" MAXIMUM IN ALL CMU WALLS. JOINT REINFORCING SHALL BE WELDED TYPE WITH 9 GAGE SIDE RODS AND 9 GAGE LADDER CROSS RODS. IN EXTERIOR WALLS, JOINT REINFORCEMENT SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED. ALL OTHER JOINT REINFORCEMENT SHALL BE MILL GALVANIZED, HOT-DIP GALVANIZED, OR STAINLESS STEEL.
18. REINFORCING BARS SHALL HAVE MATERIAL PROPERTIES AS SPECIFIED FOR REINFORCED CONCRETE. LAP BARS PER THE LAP SPLICE SCHEDULE (48 DIAMETERS MINIMUM) UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
19. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE BAR LOCATORS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS OR 10 FEET.
20. REINFORCE AND GROUT VERTICAL CELLS AT CORNERS, ENDS OF WALLS, JAMBS OF OPENINGS, EACH SIDE OF VERTICAL CONTROL JOINTS, AND AT SPACING SHOWN ON DRAWINGS.
21. VENEER ANCHORS:
   - A. ANCHORS SHALL MEET THE MATERIAL AND DIMENSIONAL REQUIREMENTS OF TMS 402/602.
   - B. COMPRESSION TEST DATA SHALL BE SUBMITTED FOR PROPOSED ANCHORS WHERE CAVITY WIDTH EXCEEDS 4-1/2".
   - C. ANCHOR TENSION CAPACITY SHALL CONSIDER THE BACKUP MATERIAL AND THICKNESS, AND BE COORDINATED WITH THE TRADE PROVIDING VENEER BACKUP.
   - D. ANCHORS SHALL BE COMPATIBLE WITH BACKUP STRUCTURE MATERIAL AND ARCHITECTURAL INSULATION, VAPOR BARRIER AND WATERPROOFING SYSTEMS.
   - E. PROVIDE ANCHORS AT 16" MAXIMUM IN ONE DIRECTION AND 24" IN THE ORTHOGONAL DIRECTION WHERE qz IS LESS THAN 40 PSF.
   - F. PROVIDE ANCHORS AT 16" MAXIMUM IN EACH DIRECTION WHERE qz IS BETWEEN 40 AND 55 PSF.
   - G. PROVIDE ANCHORS AROUND PERIMETER OF OPENINGS AT 24" MAXIMUM AND WITHIN 12" OF THE OPENING.
   - H. VENEER NOT LAID IN RUNNING BOND SHALL HAVE ONE WIRE JOINT REINFORCEMENT AT 18" MAXIMUM VERTICAL SPACING.
   - I. IN SEISMIC DESIGN CATEGORY C AND ABOVE, PROVIDE TIES WITH A CONTINUOUS ANCHOR WIRE IN VENEER JOINTS.
22. WHERE NOTED ON THE DRAWINGS, PROVIDE CLEARANCE BETWEEN MASONRY AND STRUCTURAL ELEMENTS, OR WRAP STEEL WITH POLYETHYLENE FILM.
23. LOCATE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS AS SHOWN ON THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, OR SPACED HORIZONTALLY AT 25'-0 MAXIMUM SPACING WHERE NOT SHOWN.

LOOSE LINTELS:

1. UNLESS NOTED OTHERWISE PROVIDE LOOSE LINTELS AS FOLLOWS:

LOOSE LINTEL SCHEDULE		
SPAN	SIZE	MIN END BEARING
UP TO 4'-0	L3-1/2 x 3-1/2 x 1/4	4"
4'-1 TO 5'-4	L5 x 3-1/2 x 1/4 (LLV)	4"
5'-5 TO 10'-0	L6 x 3-1/2 x 5/16 (LLV)	8"

2. ONE ANGLE FOR EACH 4" OF WALL THICKNESS.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. STRUCTURAL STEEL W-, WT-, C- AND MC-SHAPES SHALL CONFORM TO ASTM A992, 50 KSI YIELD.
3. PLATES AND ANGLES SHALL CONFORM TO ASTM A36, 36 KSI YIELD, OR ASTM A572, 50 KSI YIELD, UNLESS SPECIFICALLY NOTED TO BE ASTM A572, 50 KSI YIELD ON DRAWINGS.
4. HOLLOW STRUCTURAL SECTION (HSS) RECTANGULAR OR ROUND SHAPES SHALL CONFORM TO ASTM A500, GRADE C, 50 KSI YIELD.
5. PIPE SHAPES SHALL CONFORM TO ASTM A53, GRADE B, 35 KSI YIELD.
6. EXCEPT AS NOTED, FRAMED BEAM CONNECTIONS SHALL BE BEARING-TYPE WITH 3/4" DIAMETER, SNUG TIGHT, ASTM F3125 BOLTS, DETAILED IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE "STEEL CONSTRUCTION MANUAL" BY THE AISC. INSTALL BOLTS IN ACCORDANCE WITH AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
7. ALL BEAMS SHALL HAVE FULL DEPTH WEB STIFFENERS EACH SIDE OF WEBS ABOVE AND BELOW COLUMNS.
8. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, 55 WITH WELDABILITY SUPPLEMENT S1, AND/OR 105 AS NOTED ON THE STRUCTURAL DRAWINGS.
9. HEADED ANCHOR STUDS (HAS) SHALL CONFORM TO ASTM A108 AND SHALL BE CONNECTED TO STRUCTURAL STEEL WITH EQUIPMENT APPROVED BY THE STUD MANUFACTURER ACCORDING TO THE STUD MANUFACTURER'S RECOMMENDATIONS.
10. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE AISC DOCUMENTS LISTED ABOVE, THE AMERICAN WELDING SOCIETY (AWS) D1.1: STRUCTURAL WELDING CODE, AND THE RECOMMENDATIONS FOR USE OF WELD 70KSI ELECTRODES. WHERE NOT SPECIFICALLY NOTED, MINIMUM WELD SHALL BE 3/16" FILLET BY LENGTH OF CONTACT EDGE.
11. GROUT BENEATH COLUMN BASE AND BEAM BEARING PLATES SHALL HAVE A MINIMUM 28-DAY, COMPRESSIVE STRENGTH OF 7,500 PSI AND SHALL BE NON-SHRINK, NON-METALLIC, AND TESTED IN ACCORDANCE WITH ASTM C1107.

STEEL DECKING:

1. STEEL ROOF, NON-COMPOSITE FLOOR (OR FORM), AND COMPOSITE FLOOR DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE STANDARD DECK SPECIFICATIONS AND THE "MANUAL OF CONSTRUCTION WITH STEEL DECK" AS PREPARED BY THE STEEL DECK INSTITUTE (SDI).
2. ROOF DECK SHALL BE CONNECTED TO SUPPORTING MEMBERS AND INTERCONNECTED AS NOTED ON THE STRUCTURAL DRAWINGS.
3. NON-COMPOSITE AND COMPOSITE FLOOR DECK SHALL BE CONNECTED TO SUPPORTING MEMBERS AND INTERCONNECTED AS REQUIRED TO SATISFY SDI MINIMUM REQUIREMENTS EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS.
4. DIAPHRAGM CAPACITY OR WELDING PATTERNS, SCREW PATTERNS, AND DETAILS SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS.
5. IN LIEU OF WELDS, THE CONTRACTOR MAY SUBMIT FOR REVIEW ALTERNATE DECK CONNECTIONS USING POWDER-ACTUATED FASTENERS WHICH PROVIDE EQUAL OR GREATER DIAPHRAGM STRENGTH AND STIFFNESS. POWDER-ACTUATED FASTENERS SHALL BE SDI LISTED FOR DIAPHRAGM DESIGN AND WIND UPLIFT, UL AND FM LISTED FOR FIRE RESISTANCE AND WIND UPLIFT. POWDER ACTUATED FASTENERS SHALL BE RECOGNIZED BY ICC-ES FOR DIAPHRAGM SHEAR STRENGTH IN ACCORDANCE WITH THE LATEST VERSION OF THE ICC-ES AC 43.

CORROSION CONTROL:

1. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
2. FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR ASTM B695 CLASS 50 (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED). STAINLESS STEEL FASTENERS AND HARDWARE MAY ALSO BE USED.
3. ALL FIELD CUT OR DAMAGED SURFACES, FIELD WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS AS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPAIRED WITH (2) COATS OF A 95% ZINC RICH PAINT PER ASTM A780 (ZRC PREFERRED).

STRUCTURAL WOOD FRAMING:

1. IN-GRADE BASE VALUES HAVE BEEN USED FOR DESIGN.
2. DIMENSIONAL LUMBER FRAMING SHALL BE S4S HEM FIR NO. 2 AND BETTER UNO.
3. SOLID TIMBER BEAMS AND POSTS SHALL BE DOUGLAS FIR-LARCH NO. 1 AND BETTER UNO.
4. STUDS SHALL BE HEM FIR STUD GRADE AND BETTER UNO.
5. TOP AND BOTTOM PLATES SHALL BE DOUGLAS FIR-LARCH NO. 2 AND BETTER UNO.
6. ALL LUMBER SHALL BE 19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION UNO.
7. ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH OR SOUTHERN YELLOW PINE. PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARDS U1 AND M4. TREATMENTS SHALL HAVE NO AMMONIA ADDED AND SHALL BE THE FOLLOWING USE CATEGORY:
   - A. UC2 AT INTERIOR
   - B. UC3B AT EXTERIOR WITH NO GROUND CONTACT
   - C. UC4B AT EXTERIOR WITH GROUND CONTACT
8. FASTENERS FOR USE WITH TREATED WOOD SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH SECTION 2304.9.5 (2012 IBC), 2304.10.5 (2015 & 2018 IBC), 2304.10.6 (2021 IBC).
9. ALL CONNECTORS USED WITH PRESSURE-TREATED MATERIAL SHALL BE STAINLESS STEEL ASTM 304 OR 316, OR HAVE A SI

STRUCTURAL ERECTION AND BRACING REQUIREMENTS:

1. THE STRUCTURAL DRAWINGS ILLUSTRATE AND DESCRIBE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED, CONNECTED, AND/OR BRACED.
2. THE STRUCTURAL DRAWINGS ILLUSTRATE TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE GENERAL CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED AND NOT EVERY EXCEPTIONAL CONDITION IS ADDRESSED.
3. ALL PROPRIETARY CONNECTIONS AND ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
4. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ORDINANCES.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR RESOLUTION.
6. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES.
7. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE STRUCTURAL DRAWINGS DO NOT DESCRIBE METHODS OF CONSTRUCTION.
8. VERIFY ALL OPENINGS THROUGH FLOORS, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS. COORDINATE DIMENSIONS WITH SUPPLIERS PRIOR TO FABRICATION.
9. SIGNIFICANT PERMANENT EQUIPMENT SIZES, WEIGHTS AND LOCATIONS ARE INDICATED ON THE DRAWINGS AS PROVIDED TO THE ENGINEER DURING DESIGN. CHANGES IN SIZE, WEIGHT, OR LOCATION MUST BE SUBMITTED IN WRITING FOR REVIEW BY THE ENGINEER. REQUIRED CURBS, SUPPORTS, OR BRACES NOT SHOWN ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER.
10. THE GENERAL CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION EQUIPMENT.
11. DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE TEMPORARY BRACING IS PROVIDED.
12. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE.
13. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTIONS OF THESE ITEMS.

PRECAUTIONARY NOTES ON STRUCTURAL BEHAVIOR:

1. INTERIOR ARCHITECTURAL FINISH DETAILING MUST ACCOMMODATE THE RELATIVE DIFFERENTIAL MOVEMENTS OF SUPPORTING STRUCTURAL ELEMENTS.
2. WHERE THE ROOF FRAMING ELEMENT SPANS ARE LONG, APPLIED LOADING WILL NATURALLY CAUSE SUBSTANTIAL DEFLECTION. INTERIOR ELEMENTS HUNG FROM THE ROOF STRUCTURE WILL DEFLECT WITH THE ROOF.
3. THE FLOOR IS A FLOATING CONCRETE SLAB-ON-GRADE AND MAY EXPERIENCE MOVEMENTS INDEPENDENT OF THE STRUCTURAL FOUNDATIONS. INTERIOR ELEMENTS SUPPORTED ON THE SLAB-ON-GRADE FLOOR WILL MOVE WITH THE FLOOR. INTERIOR ELEMENTS SUPPORTED ON FOUNDATIONS AND COLUMNS WILL NOT EXPERIENCE SIMILAR OR MEASURABLE MOVEMENTS.
4. EXTERIOR/PERIMETER WALL ASSEMBLIES HUNG FROM THE EDGE OF THE BUILDING STRUCTURE WILL BE DIRECTLY AFFECTED (TO SOME DEGREE) BY CHANGES IN EXTERNAL TEMPERATURE AND FLOOR DEFLECTION.
5. EXTERIOR/PERIMETER AND INTERIOR ARCHITECTURAL FINISH DETAILS SHOULD ALLOW FOR RELATIVE MOVEMENTS BETWEEN ELEMENTS WITH DIFFERENT SUPPORT CONDITIONS.

DEFERRED SUBMITTALS:

1. PORTIONS OF THE STRUCTURE HAVE ELEMENTS OF PROPRIETARY DESIGN AND FABRICATION, WHICH SHALL BE SUBMITTED BY THE SUPPLIER FOR APPROVAL AFTER AWARD OF CONTRACT.
2. THESE ITEMS SHALL CONFORM TO THE LOAD, CAPACITY, SIZE, GEOMETRY, CONNECTION, AND SUPPORT CRITERIA NOTED ON THE STRUCTURAL DRAWINGS.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. FINAL SHOP DRAWING SUBMITTALS SHALL BE STAMPED AND SIGNED.
4. FURNISH DEFERRED SUBMITTALS FOR:
   A. CANOPIES, SUNSCREENS, AND SUNSHADES
5. DEFERRED SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR COMPLIANCE WITH THE SPECIFIED DESIGN REQUIREMENTS, STAMPED AS "REVIEWED," AND RETURNED TO THE CONTRACTOR. THE GENERAL CONTRACTOR SHALL FORWARD THE REVIEWED DEFERRED SUBMITTALS TO THE LOCAL BUILDING AUTHORITY FOR REVIEW AND APPROVAL BEFORE INSTALLATION OF DEFERRED SUBMITTAL ITEMS.
6. FINAL ISSUE OF THE BUILDING PERMIT MAY, AT THE APPROVAL AUTHORITY'S OPTION, BE CONTINGENT ON ITS APPROVAL OF THE DEFERRED SUBMITTAL DOCUMENTS.
7. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND/OR LOCAL BUILDING AUTHORITY AS REQUIRED.

LETTERS OF CONSTRUCTION COMPLIANCE:

1. THE GENERAL CONTRACTOR SHALL DETERMINE FROM THE LOCAL BUILDING AUTHORITY, AT THE TIME THE BUILDING PERMIT IS OBTAINED, WHETHER ANY LETTERS OF CONSTRUCTION COMPLIANCE WILL BE REQUESTED FROM THE STRUCTURAL ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL SUCH REQUIREMENTS IN WRITING PRIOR TO THE START OF CONSTRUCTION.
3. TWO-DAY ADVANCE NOTICE SHALL BE GIVEN WHEN REQUESTING SITE VISITS NECESSARY AS THE BASIS FOR THE COMPLIANCE LETTER.
4. THE GENERAL CONTRACTOR SHALL PROVIDE COPIES OF ALL THIRD-PARTY TESTING AND INSPECTION REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE DATE THAT THE COMPLIANCE LETTER IS NEEDED.

SPECIAL INSPECTIONS - 2021:

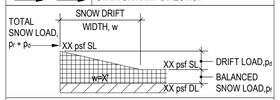
1. THE FOLLOWING SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR, RETAINED BY THE OWNER, IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF IBC CHAPTER 17:
   A. SECTION 1704 SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY, AND STRUCTURAL OBSERVATIONS AND THE FOLLOWING SUB-SECTIONS:
      1. 1704.2 SPECIAL INSPECTIONS AND TESTS
      2. 1704.3 STATEMENT OF SPECIAL INSPECTIONS
   B. SECTION 1705 REQUIRED VERIFICATION AND INSPECTION AND THE FOLLOWING SUB-SECTIONS:
      1. 1705.2 STEEL CONSTRUCTION
      2. 1705.3 CONCRETE CONSTRUCTION
      3. 1705.4 MASONRY CONSTRUCTION
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE APPROVED INSPECTOR MUST BE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED.
3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO INSPECT AND/OR TEST THE WORK OUTLINED ABOVE AND WITHIN THE STATEMENT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
5. PER SECTION 1704.2.4 THE SPECIAL INSPECTOR SHALL FURNISH REGULAR REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER. PROGRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISHED WEEKLY. INDIVIDUAL REPORTS OF PERIODIC INSPECTIONS SHALL BE FURNISHED WITHIN ONE WEEK OF INSPECTION DATES. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCIES, CORRECTION OF PREVIOUSLY REPORTED DEFICIENCIES, AND CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD.
6. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN 10 DAYS OF THE FINAL SPECIAL INSPECTION STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC. WORK NOT IN COMPLIANCE SHALL BE NOTED IN THE REPORT.
7. EXCEPT AS NOTED, THE SPECIAL INSPECTIONS OUTLINED ABOVE ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.6. STRUCTURAL OBSERVATIONS ARE INCLUDED IN THE STRUCTURAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES PROVIDED BY THE STRUCTURAL ENGINEER.

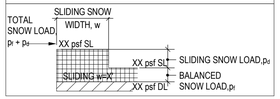
ABBREVIATIONS KEY

@	ON CENTER SPACING	DWG	DRAWING	LGS	LIGHT GAGE STEEL		
(E)	EXISTING	DWL	DOWEL	LL	LIVE LOAD	REINF	REINFORCE, -ED, -ING
(N)	NEW	EA	EACH	LLH	LONG LEG HORIZONTAL	REQ	REQUIRED
(R)	REMOVE	ECC	ECCENTRIC	LLV	LONG LEG VERTICAL	REQMT	REQUIREMENT
AB	ANCHOR ROD (BOLT)	E-E	END TO END	LOC	LOCATION	RET	RETAINING
ADDL	ADDITIONAL	EF	EACH FACE	LP	LOW POINT	RM	ROOM
ADJ	ADJUSTABLE	EJ	EXPANSION JOINT	LSL	LAMINATED STRAND LUMBER (GENERIC TERM)	RMO	ROUGH MASONRY OPENING
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	EL	ELEVATION	LT	LIGHT	RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL	LVL	LAMINATED VENEER LUMBER (GENERIC TERM)	SC	SLIP-CRITICAL
ALT	ALTERNATE	EMBED	EMBEDMENT	MACH	MACHINE	SCH	SCHEDULE
AMT	AMOUNT	ENGR EOR	ENGINEER ENGINEER OF RECORD	MASY	MASONRY	SDST	SELF-DRILLING/ SELF-TAPPING
ANCH	ANCHOR, ANCHORAGE	EQ	EQUAL	MATL	MATERIAL	SECT	SECTION
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SF	SQUARE FEET, SUB-FLOOR
ARCH	ARCHITECT, -URAL	EQUIV	EQUIVALENT	MB	MACHINE BOLT	SHT	SHEET
ATR	ALL THREAD ROD	ES	EACH SIDE	MECH	MECHANICAL	SHTG	SHEATHING
AVG	AVERAGE	EST	ESTIMATE	MEZZ	MEZZANINE	SIM	SIMILAR
BC	BOTTOM OF CONCRETE	E-W	EAST TO WEST	MFR	MANUFACTURE, -ER, -ED	SLH	SHORT LEG HORIZONTAL
BL	BRICK LEDGE	EXC	EXCAVATE	MIN	MINIMUM	SLV	SHORT LEG VERTICAL
BLK	BLOCK	EXP	EXPANSION	ML	MICROLLAM (TRUS-JOIST BRAND LVL), MASONRY LINTEL	SOG	SLAB ON GRADE
BLKG	BLOCKING	EXT	EXTERIOR	MO	MASONRY OPENING	SP	SPACES, SPACED
BM	BEAM	FD	FLOOR DRAIN	MTL	METAL	SPEC	SPECIFICATIONS
BOT	BOTTOM	FDN	FOUNDATION	NF	NEAR FACE	SQ	SQUARE
BRG	BEARING	FF	FINISHED FLOOR, FAR FACE	NIC	NOT IN CONTRACT	SSR	SHEAR STUD RAIL
BW	BOTTOM OF WALL	F-F	FACE TO FACE	NS	NEAR SIDE	ST	SNUG-TIGHT
CB	COUNTERBORE	FIG	FIGURE	N-S	NORTH TO SOUTH	STD	STANDARD
CF	CUBIC FOOT	FL	FLUSH	NTS	NOT TO SCALE	STIFF	STIFFENER
CFS	COLD-FORMED STEEL	FLG	FLANGE	OCJ	OSHA COLUMN JOIST	STL	STEEL
CG	CENTER OF GRAVITY	FLR	FLOOR	OD	OUTSIDE DIAMETER	STRUCT	STRUCTURE, -AL
CIP	CAST-IN-PLACE	FO	FACE OF	OF	OUTSIDE FACE	SUPT	SUPPORT
CJ	CONSTRUCTION JOINT, CONTROL JOINT	FP	FULL PENETRATION	OH	OPPOSITE HAND	SY	SQUARE YARD
CJP	COMPLETE JOINT PENETRATION	FS	FOOTING STEP, FAR SIDE	OPNG	OPENING	SYM	SYMMETRICAL
CL	CENTER LINE	FTG	FOOTING	OPP	OPPOSITE	T&B	TOP AND BOTTOM
CLG	CEILING	GA	GAGE, GAUGE	OSB	ORIENTED STRAND BOARD	T&G	TONGUE AND GROOVE
CLR	CLEAR	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENER	TB	TOP OF BEAM
CM	CONSTRUCTION MANAGER, -MENT	GC	GENERAL CONTRACTOR	PC	PRECAST	TC	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNIT	GEN	GENERAL	PCF	POUNDS PER CUBIC FOOT	TCA	TORQUE-CONTROLLED ANCHOR
COL	COLUMN	GL	GLUED LAMINATED, GLULAM	PE	PRE-ENGINEERED	TD	TOP OF DECK
COM	COMMON	GND	GROUND	PEN	PENETRATION	THD	THREAD
COMB	COMBINATION	GR	GRADE	PERP	PERPENDICULAR	THK	THICK, -NESS
CONC	CONCRETE	GT	GIRDER TRUSS	PJP	PARTIAL JOINT PENETRATION	TJ	TOP OF JOIST
CONN	CONNECTION	GYP BD	GYPSUM BOARD	PL	PLATE	TL	TOTAL LOAD
CONT	CONTINUOUS, CONTINUE	HAS	HEADED ANCHOR STUD	PLF	POUND PER LINEAR FOOT	TPG	TOPPING
COORD	COORDINATE, COORDINATION	HDG	HOT-DIP GALVANIZED	PNL	PANEL	TRANS	TRANSVERSE
CS	COUNTERSINK	HDR	HEADER	PP	PANEL POINT	TW	TOP OF WALL
CTR	CENTER	HORIZ	HORIZONTAL	PS	PRESTRESSED	TYP	TYPICAL
CY	CUBIC YARD	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT	ULT	ULTIMATE
DAB	DEFORMED ANCHOR BAR	HT	HEIGHT	PSI	POUNDS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	ID	INSIDE DIAMETER	PSL	PARALLEL STRAND LUMBER (GENERIC TERM)	VERT	VERTICAL
DEV	DEVELOP	IF	INSIDE FACE	PT	POST TENSIONED, PRESSURE TREATED	VIF	VERIFY IN FIELD
DIAG	DIAGONAL	INT	INTERIOR, INTERMEDIATE	PTN	PARTITION	WP	WORK POINT
DIM	DIMENSION	IT	INVERTED TEE	PWD	PLYWOOD	WT	WEIGHT
DL	DEAD LOAD	JB	JOIST BEARING	QTY	QUANTITY	WWF	WELDED WIRE FABRIC
DN	DOWN	JST	JOIST	R	RADIUS	XS	EXTRA STRONG
DP	DRILLED PIER	JT	JOINT	RE	REFERENCE, REFER TO	XSECT	CROSS SECTION
DT	DOUBLE TEE	K	KIP (1,000 LBS)	RECT	RECTANGLE	XXS	DOUBLE EXTRA STRONG

SYMBOLS KEY

	DIRECTION OF DECK SPAN
GRID	GRID DESIGNATION
X	REVISION
X SX	INDICATES STRUCTURAL ELEVATION
SWx	SHEAR WALL
	SHORING
	STEP IN FLOOR ELEVATION
	CMU (CONCRETE MASONRY UNIT)
	BRICK
	CIP CONCRETE
	PRECAST CONCRETE
	EXISTING CONCRETE
	EARTH
DP-XXM (Y) (XX'-X")	DRILLED PIER: XX = Ø, M = PIER MARK, (Y) = BEDROCK PENETRATION (XX'-X") = TOP OF PIER ELEVATION
XX:12	ROOF SLOPE
SLOPE	DIRECTION OF SLOPE (DOWN)
DN UP	STAIR OR RAMP DIRECTION





	XXX'-X	TOP OF CONCRETE OR MASONRY ELEVATION
		STEP TOP OF WALL
	BL XXX'-X	BRICK LEDGE ELEVATION
	(XXX'-X)	TOP OF FOOTING ELEVATION
	XXX'-X	TOP OF FLOOR ELEVATION
		WOOD BEARING WALL
		WOOD SHEAR WALL
BUILDING COLUMN DESIGNATIONS	A	COLUMN ABOVE
	B	COLUMN BELOW
	XX YT	"X" NUMBER OF KING STUDS BELOW "Y" NUMBER OF TRIMMER STUDS BELOW
	HDx	HOLDOWN
		WOOD HEADER
		WOOD JOIST OR BEAM SUPPORTED BY METAL HANGER
		WOOD JOIST CONTINUOUS OVER INTERMEDIATE SUPPORT
		WOOD JOIST BEARING ON TOP OF SUPPORT

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JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com

JVA # 25127.STR

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GENERAL NOTES, ABBREVIATIONS, & SYMBOLS KEY

S002

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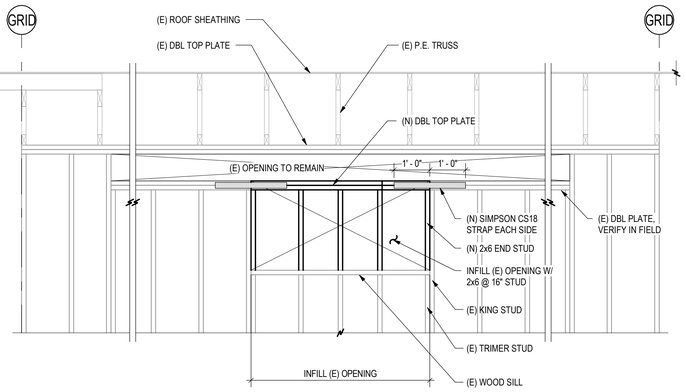
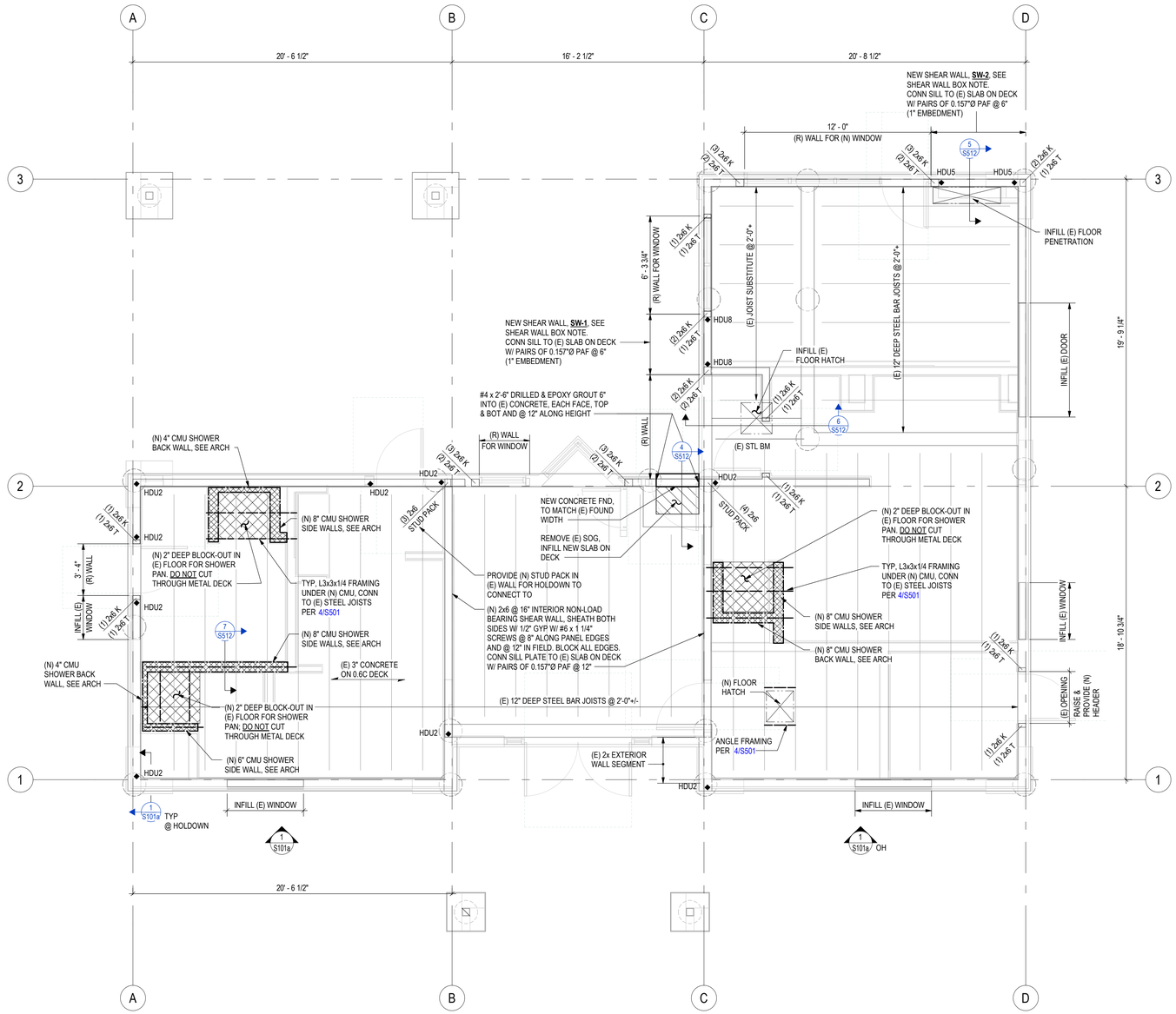


2 S101a ELEVATION

1/2" = 1'-0"



BATH HOUSE FIRST FLOOR/FOUNDATION PLAN

1/4" = 1'-0"

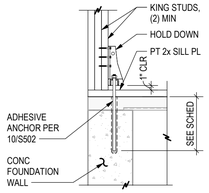
NORTH

0 1' 2' 4' 8'

- USGS ELEVATION 5519.54' = 100'-0", TOP OF MAIN LEVEL INTERIOR FLOOR SLAB
- GC TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENISON BEFORE COMMENCEMENT OF WORK. GC IS RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING CONDITIONS AS REQUIRED.
- ALL ITEMS AND FRAMING NOT NOTED AS (E) EXISTING ARE ASSUMED TO BE (N) NEW

HOLDOWN SCHEDULE

MARK	MODEL #	ANCHOR BOLTS	EMBEDMENT DEPTH	SCREWS OR NAILS
HDU2	HDU2-SDS2.5	5/8"Ø ASTM F1554-36 ATR	8"	(6) SDS25212
HDU5	HDU5-SDS2.5	5/8"Ø ASTM F1554-36 ATR	8"	(14) SDS25212
HDU8	HDU8-SDS2.5	7/8"Ø ASTM F1554-36 ATR	10"	(20) SDS25212



1 S101a TYP WOOD HOLDOWN DETAIL/ SCHEDULE

3/4" = 1'-0"

MASONRY, STEEL, AND MECHANICAL SUBCONTRACTORS' NOTE:
STRUCTURAL DRAWINGS DO NOT INDICATE ALL WALL, FLOOR, OR ROOF PENETRATIONS FOR MECH DUCTS, DRAINS, VENTS, ETC.; DRAWINGS INDICATE TYPICAL AND SPECIAL CONDITIONS FOR FRAMING AT THE PENETRATIONS, SEE 4/S501. GENERAL CONTRACTOR AND SUBCONTRACTORS' SHALL BE RESPONSIBLE FOR DETERMINING AND/OR MODIFYING OPENING LOCATIONS, ELEVATIONS AND DIMENSIONS FOR MECH UNLESS NOTED OTHERWISE. COORDINATION TO BE COMPLETED PRIOR TO FABRICATION OF STRUCTURAL STEEL AND ROOF JOISTS

TYPICAL 6" AND 8" NON-STRUCTURAL BLOCK PARTITIONS:
BLOCK PARTITIONS SHALL HAVE #4 VERTICALS CENTERED IN WALL IN GROUTED CELLS AT CORNERS, JAMBS, WALL INTERSECTIONS, AND @ 8'-0 MAXIMUM. DOWEL TO SLAB WITH 1/2"Ø x 1'-6 ALL THREAD BARS INTO A 1/2"Ø DROP-IN EXPANSION ANCHOR WITH A 2" EMBEDMENT INTO THE SLAB. LOCATE DOWELS TO MATCH VERTICAL BAR SPACING. PROVIDE 2'-0 DEEP SOLID GROUTED MASONRY LINTEL AT TOP OF ALL WALLS WITH MATCHING CORNER BARS. WALL SHALL HAVE HORIZONTAL JOINT REINFORCING @ 16". BRACE TOP OF PARTITIONS PER SECTION 9/SS520. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF PARTITIONS AND CONTROL JOINTS

FIELD VERIFICATION:
- ALL DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR
- IF DIMENSIONS AND CONDITIONS DIFFER THAN THOSE SHOWN ON DRAWINGS, NOTIFY ARCHITECT AND ENGINEER
- NOTIFY ARCHITECT AND ENGINEER ONCE FINISHES ARE REMOVED & FOUNDATION IS EXCAVATED TO ALLOW OBSERVATION

TYPICAL NEW EXTERIOR WOOD FRAMED SHEAR WALLS (UNO):
2x6 STUDS @ 16" SHEATHED W/ 7/16" APA 24/16, EXPOSURE 1 ON EXTERIOR FACE; NAIL WALL SHEATHING WITH 8d (0.113"Ø x 2 3/8") @ X" AT PANEL EDGES AND @ 12" IN FIELD OF PANEL; BLOCK AND NAIL ALL EDGES BETWEEN STUDS. IF GUN NAILS ARE USED FOR NAILING, NAILS MUST BE AT A MINIMUM THE DIAMETER AND LENGTH NOTED ABOVE.

SW-1: PANEL EDGE NAIL SPACING, X = 3"
SW-2: PANEL EDGE NAIL SPACING, X= 4"

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brsarch.com
JVA CONSULTING ENGINEERS
JVA # 25127.STR
JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com

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COLORADO REGISTERED MATTHEW D. LEVEY 36750 PROFESSIONAL ENGINEER 01.07.26

Sheet title:

BATH HOUSE FIRST FLOOR/ FOUNDATION PLAN

S101a

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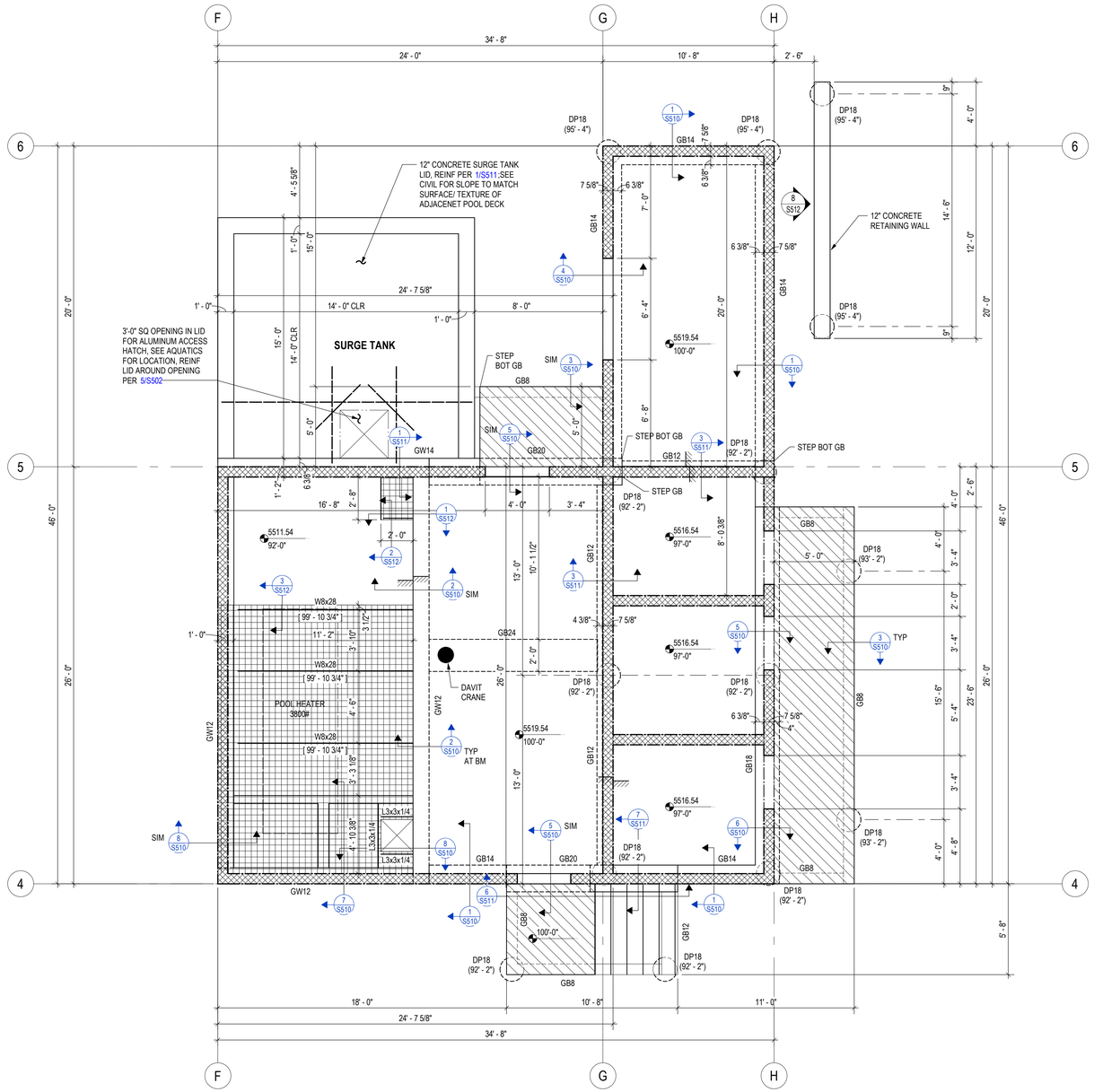

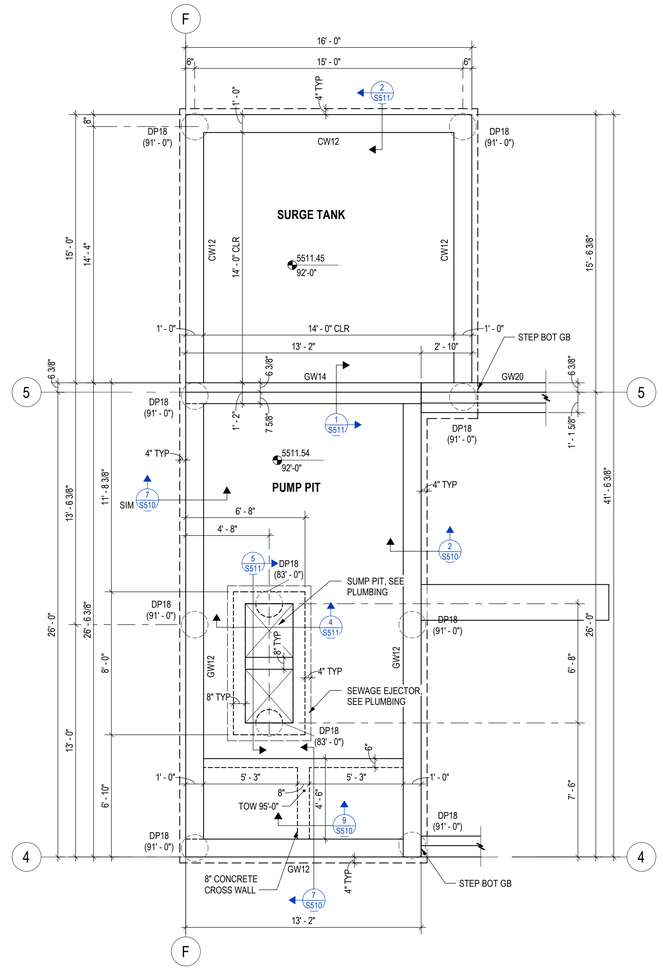

AUXILIARY MECHANICAL ROOM FIRST FLOOR/FOUNDATION PLAN

NORTH 1/4" = 1'-0"

0 1' 2' 4' 8'

- USGS ELEVATION 5519.54' = 100'-0", TOP OF MAIN LEVEL INTERIOR FLOOR SLAB
- TOP OF INTERIOR FLOOR SLAB ELEVATION = 100'-0", UNLESS NOTED THUS: XXX'-X
- TOP OF CONCRETE GRADE BEAM ELEVATION = 100'-0 AND 99'-2" AT DOOR OPENINGS UNLESS NOTED THUS: XXX'-X
- LOCATION OF STEP IN BOTTOM OF GRADE BEAM PER XX/SXX NOTED THUS: STEP
- TOP OF VENEER LEDGE ELEVATION AT PERIMETER GRADE BEAM = 99'-4 UNLESS NOTED THUS: BL XXX'-X
- CENTER DRILLED PIERS UNDER FOUNDATION WALLS, PILASTERS, PEDESTALS, WALL CORNERS, UNLESS NOTED OTHERWISE
- TOP OF DRILLED PIER ELEVATION = (96'-0)" UNLESS NOTED (XXX'-X) ON PLAN
- SEE 3/S501 FOR DRILLED PIER DETAIL
- SEE ARCH DRAWINGS FOR SIZE AND LOCATION OF ALL FLOOR OPENINGS

TYPICAL STRUCTURAL SLAB:
8" CONCRETE SLAB REINFORCE WITH #5 @ 12" EACH WAY, TOP AND BOTTOM

TYPICAL STRUCTURAL STOOP
INDICATES 8" MINIMUM CONCRETE SLAB REINFORCE WITH #5 @ 12" EACH WAY, MID-DEPTH

MASONRY, STEEL, AND MECHANICAL SUBCONTRACTORS' NOTE:
STRUCTURAL DRAWINGS DO NOT INDICATE ALL WALL, FLOOR, OR ROOF PENETRATIONS FOR MECH DUCTS, DRAINS, VENTS, ETC.; DRAWINGS INDICATE TYPICAL AND SPECIAL CONDITIONS FOR FRAMING AT THE PENETRATIONS, SEE 4/S501; GENERAL CONTRACTOR AND SUBCONTRACTORS' SHALL BE RESPONSIBLE FOR DETERMINING AND/OR MODIFYING OPENING LOCATIONS, ELEVATIONS AND DIMENSIONS FOR MECH UNLESS NOTED OTHERWISE. COORDINATION TO BE COMPLETED PRIOR TO FABRICATION OF STRUCTURAL STEEL AND ROOF JOISTS

TYPICAL 6" AND 8" NON-STRUCTURAL BLOCK PARTITIONS:
BLOCK PARTITIONS SHALL HAVE #4 VERTICALS CENTERED IN WALL IN GROUTED CELLS AT CORNERS, JAMBS, WALL INTERSECTIONS, AND @ 8'-0 MAXIMUM. DOWEL TO SLAB WITH 1/2"Ø x 1'-6 ALL THREAD BARS INTO A 1/2"Ø DROP-IN EXPANSION ANCHOR WITH A 2" EMBEDMENT INTO THE SLAB. LOCATE DOWELS TO MATCH VERTICAL BAR SPACING. PROVIDE 2'-0 DEEP SOLID GROUTED MASONRY LINTEL AT TOP OF ALL WALLS WITH MATCHING CORNER BARS. WALL SHALL HAVE HORIZONTAL JOINT REINFORCING @ 16". BRACE TOP OF PARTITIONS PER SECTION 9/S520. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF PARTITIONS AND CONTROL JOINTS

PUMP PIT/ SURGE TANK FOUNDATION

NORTH 1/4" = 1'-0"

0 1' 2' 4' 8'

- USGS ELEVATION 5519.54' = 100'-0", TOP OF MAIN LEVEL INTERIOR FLOOR SLAB
- TOP OF FLOOR SLAB ELEVATION UNLESS NOTED THUS: XXX'-X
- TOP OF CONCRETE GRADE BEAM ELEVATION = 100'-0 AND 99'-4" AT DOOR OPENINGS UNLESS NOTED THUS: XXX'-X
- LOCATION OF STEP IN BOTTOM OF GRADE BEAM PER XX/SXX NOTED THUS: STEP GB
- CENTER DRILLED PIERS UNDER FOUNDATION WALLS, PILASTERS, PEDESTALS, WALL CORNERS, UNLESS NOTED OTHERWISE
- TOP OF DRILLED PIER ELEVATION NOTED (XXX'-X) ON PLAN
- SEE 6/S510 FOR DRILLED PIER DETAIL
- SEE ARCH DRAWINGS FOR SIZE AND LOCATION OF ALL FLOOR OPENINGS

PIT STRUCTURAL SLAB:
12" CONCRETE SLAB REINFORCE WITH #5 @ 12" EACH WAY, TOP AND BOTTOM

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Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com
JVA # 25121ZSTR

North Pool Renovation

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COLORADO REGISTERED MATTHEW D. LEWIS 36759 PROFESSIONAL ENGINEER 01.07.26

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AUXILIARY MECHANICAL ROOM FOUNDATION PLAN

S101b

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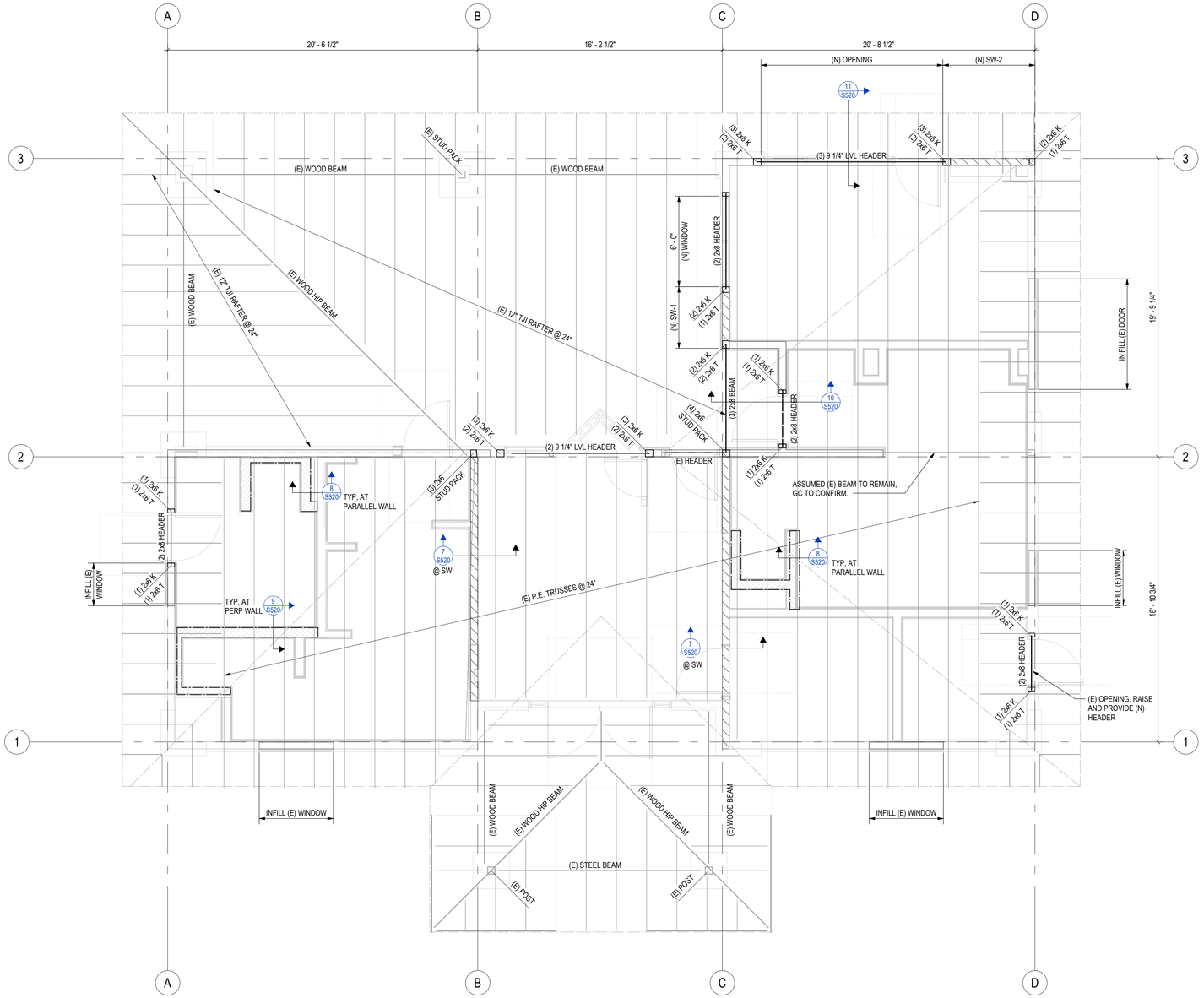

BATH HOUSE ROOF FRAMING PLAN

NORTH

1/4" = 1'-0"

0 1' 2' 4' 8'

TYPICAL NEW EXTERIOR WOOD FRAMED SHEAR WALLS (UNO):
2x6 STUDS @ 16" SHEATHED W/ 7/16" APA 24/16, EXPOSURE 1 ON EXTERIOR FACE; NAIL WALL SHEATHING WITH 8d (0.113"Ø x 2 3/8") @ X" AT PANEL EDGES AND @ 12" IN FIELD OF PANEL; BLOCK AND NAIL ALL EDGES BETWEEN STUDS. IF GUN NAILS ARE USED FOR NAILING, NAILS MUST BE AT A MINIMUM THE DIAMETER AND LENGTH NOTED ABOVE.

SW-1: PANEL EDGE NAIL SPACING, X = 3"
SW-2: PANEL EDGE NAIL SPACING, X= 4"

- GC TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSION BEFORE COMMENCEMENT OF WORK. GC IS RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING CONDITIONS AS REQUIRED.
- ALL ITEMS AND FRAMING NOT NOTED AS (E) EXISTING ARE ASSUMED TO BE (N) NEW
- ALL NEW HEADERS ARE DROPPED, UNLESS NOTED OTHERWISE ON PLAN
- LOCALLY SHORE ROOF FRAMING OVER NEW OPENINGS PRIOR TO THE INSTALLATION OF NEW HEADERS.

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JVA # 251212.STR
JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com

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BEREK M. PEDERSON
38759
01.09.26

Sheet title:

BATH HOUSE ROOF FRAMING PLAN

S102a

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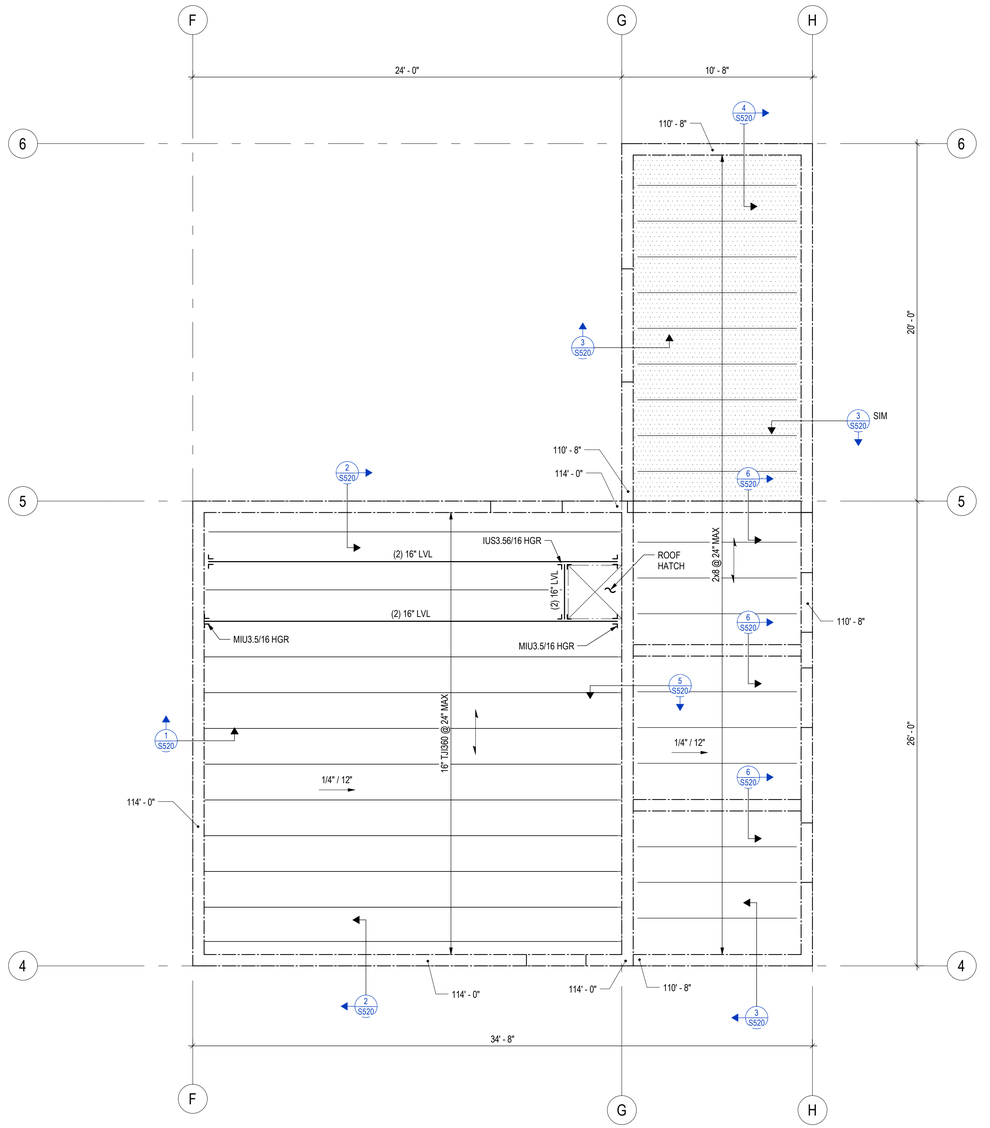

AUXILIARY MECHANICAL ROOM ROOF FRAMING PLAN

NORTH

1/4" = 1'-0"

0 1' 2' 4' 8'

- USGS ELEVATION 5519.54' = 100'-0"
- ALL BEAMS ARE FLUSH, UNLESS NOTED OTHERWISE ON PLAN OR SECTION
- ALL HEADERS ARE DROPPED, UNLESS NOTED OTHERWISE ON PLAN

TYPICAL ROOF SHEATHING:
15/32" APA 32/16 RATED SHEATHING FASTENED WITH 8d NAILS (0.113"Ø x 2 3/8") @ 6" ALONG PANEL EDGES AND @ 12" IN FIELD. LAY PANELS PERPENDICULAR TO FRAMING MEMBERS AND STAGGER PANEL JOINTS.

BLOCKED ROOF DIAPHRAGM:
PROVIDE 2x4 FLAT BLOCKING WITH MAX 4" NAIL SPACING AT ALL PANEL EDGES. CENTER BLOCKING ABOUT PANEL EDGES AND STAGGER NAILS BETWEEN PANEL EDGES. SHEATHING, NAIL SIZE, FIELD NAIL SPACING, AND PANEL ORIENTATION AS NOTED IN TYPICAL SHEATHING BOX NOTE.

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BEREK M. PEDERSEN
38759
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S102b

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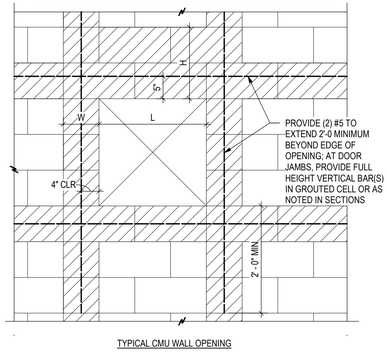
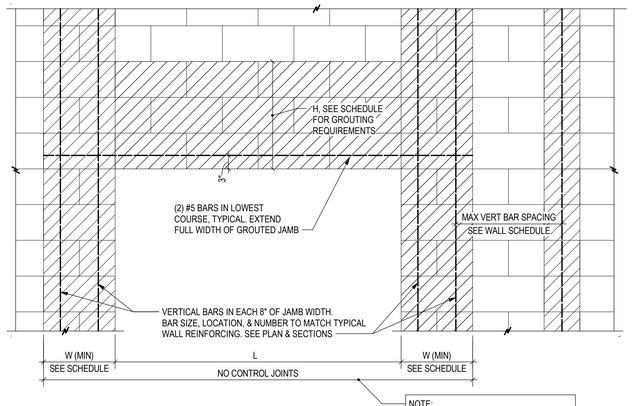
TYPICAL MASONRY LINTELS UP TO 6'-0 (UNO)		
L (OPENING WIDTH)	H (HEIGHT OF SOLID GROUTED LINTEL)	W (SOLID GROUTED JAMB WIDTH)
UP TO 4'-0	1'-4	8"
4'-1 TO 6'-0	2'-0	1'-4



TYPICAL CMU WALL OPENING

6 / S501 TYP CMU WALL OPENING
3/4" = 1'-0"

TYPICAL MASONRY LINTELS OVER 4'-1 (UNO)		
L (OPENING WIDTH)	H (HEIGHT OF SOLID GROUTED LINTEL)	W (SOLID GROUTED JAMB WIDTH)
4'-1 TO 6'-0	2'-0	1'-4
6'-1 TO 10'-0	3'-4	2'-0

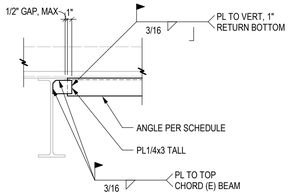


TYPICAL CMU LINTEL

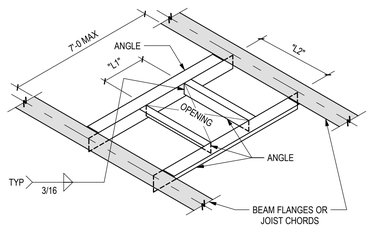
NOTE:
MASONRY CONTROL JOINTS MAY NOT OCCUR AT LINTEL OR JAMB LOCATIONS. SEE ARCH FOR JOINT LOCATIONS. CONTRACTOR TO CONTACT JVA IF JOINTS OCCUR AT LINTELS OR JAMBS

7 / S501 TYP CMU LINTEL
3/4" = 1'-0"

0 6" 1' 2' 3'



TYPICAL CONNECTION OF FRAME TO (E) BEAM OR JOIST

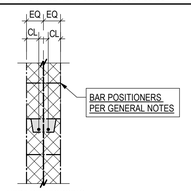


'L1' OR 'L2' (USE LARGER VALUE)	ANGLE SIZES	REMARKS
UP TO 1'-0	NONE REQUIRED	
UP TO 3'-0	L3-1/2x3-1/2x1/4	
UP TO 5'-0	L5x3x1/4 (LLV)	
UP TO 7'-0	L6x4x5/16 (LLV)	

- USE ABOVE FRAMING AT ALL FLOOR & ROOF OPENINGS WHERE EITHER "L1" OR "L2" EXCEEDS 1'-0 , UNLESS NOTED OTHERWISE
- VERIFY WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS

4 / S501 TYP STL AT ROOF OPENING IN (E)
NO SCALE

TYPICAL CMU WALL/REINFORCING ASSEMBLIES



VERT REINFORCING CENTERED

STRUCTURAL MASONRY WALL SCHEDULE

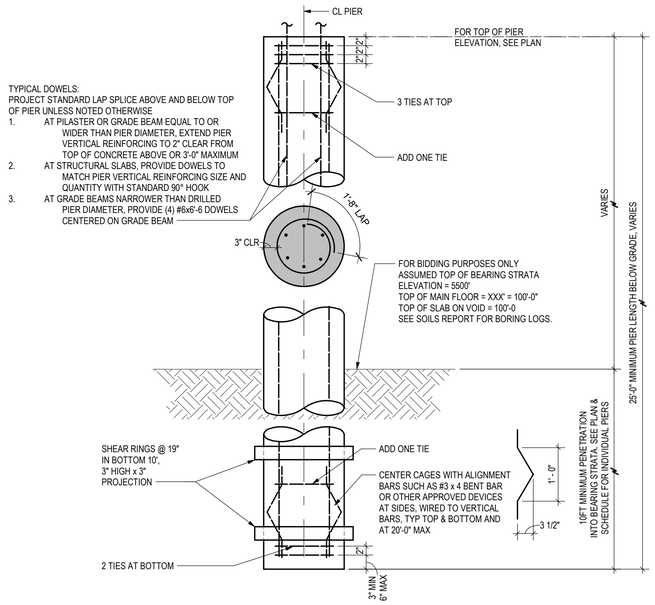
MASONRY WALL SCHEDULE		
MARK	WIDTH	VERT REINF
MW8	7 5/8"	#5 @ 32"

1. VERTICAL REINFORCING INSTALLED FULL HEIGHT IN SOLID GROUTED VERTICAL CELLS AT SPACING SHOWN AND LOCATED AT OPENING JAMBS, WALL ENDS, CORNERS, INTERSECTIONS AND VERTICAL CONTROL JOINTS (SEE 6/S501 & 7/S501)
2. STANDARD LADDER-TYPE CONTINUOUS HORIZONTAL JOINT REINFORCING VERTICALLY @ 16" UNLESS OTHERWISE NOTED
3. ADD BOND BEAMS AT ALL FLOOR AND ROOF ELEVATIONS AS NOTED IN SECTIONS AND AT ALL TOP OF WALL LOCATIONS, MAXIMUM VERTICAL SPACING = 8'-0.

5 / S501 TYP CMU WALL/REINF ASSEMEBLIES & SCHEDULE
3/4" = 1'-0"

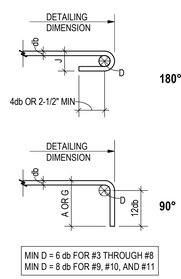
PIER SCHEDULE					
MARK	DIAMETER	PENETRATION INTO BEDROCK (MINIMUM)	MINIMUM PIER LENGTH	REINFORCING	TIES
DP18	1' - 6"	10' - 0"	36' - 0"	(6) #5	#4@12"

NOTES:
1. WHERE CASING EXTENDS INTO BEARING STRATA, BEARING STRATA PENETRATION SHALL BE MEASURED FROM BOTTOM OF CASING.
2. DESIGN OF DRILLED PIERS ASSUMES FULL SIZE CASING (INSIDE DIAMETER OF CASING EQUALS SPECIFIED PIER DIAMETER).



3 / S501 TYP CONC DRILLED PIER & SCHEDULE
3/4" = 1'-0"

STANDARD HOOKS

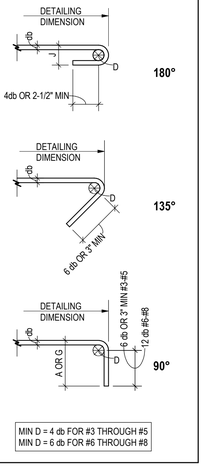


MIN D = 6 db FOR #3 THROUGH #8
MIN D = 8 db FOR #9, #10, AND #11

BAR SIZE	STANDARD HOOKS 180° (J)	STANDARD HOOKS 90° (A OR G)	STIRRUPS & TIE HOOKS 180° (J)	STIRRUPS & TIE HOOKS 90° (A OR G)
#3	3"	6"	2 1/4"	4 1/8"
#4	4"	8"	3"	4 1/2"
#5	5"	10"	3 3/4"	5 5/8"
#6	6"	1'-0	6"	1'-0
#7	7"	1'-2	7"	1'-2
#8	8"	1'-4	8"	1'-4
#9	11 3/4"	1'-7		
#10	1'-1 1/4	1'-10		
#11	1'-2 3/4	2'-0		

ALL GRADES OF STEEL
D = FINISHED INSIDE BEND DIAMETER
db = NOMINAL BAR DIAMETER

STIRRUP & TIE HOOKS



MIN D = 4 db FOR #3 THROUGH #5
MIN D = 6 db FOR #6 THROUGH #8

2 / S501 TYP CONC HOOKS & STIRRUPS
NO SCALE

TYPICAL CONCRETE REINFORCING LAP & EMBEDMENT LENGTHS (UNO)							
		f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
BAR SIZE	TYPE	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR
#4	EMBED	29	22	25	19	22	17
	LAP	37	29	32	25	29	22
#5	EMBED	36	28	31	24	28	22
	LAP	47	36	40	31	36	28
#6	EMBED	43	33	37	29	33	26
	LAP	56	43	48	37	43	33
#7	EMBED	63	48	54	42	49	37
	LAP	81	63	70	54	63	49

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW BAR
2. TABULATED VALUES ARE BASED ON GRADE 60 NON-EPOXY-COATED REINFORCING BARS AND NORMAL WEIGHT CONCRETE
3. VALUES ARE IN INCHES

1 / S501 TYP CONC EMBED & LAP
NO SCALE

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JVA CONSULTING ENGINEERS
JVA # 25127.STR
JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com

North Pool Renovation
1650 S INDIANA ST, SUPERIOR, CO 80027

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SCHEDULES

S501

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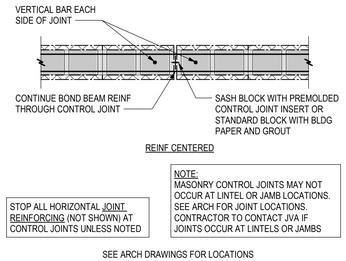
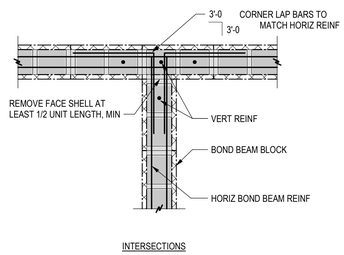
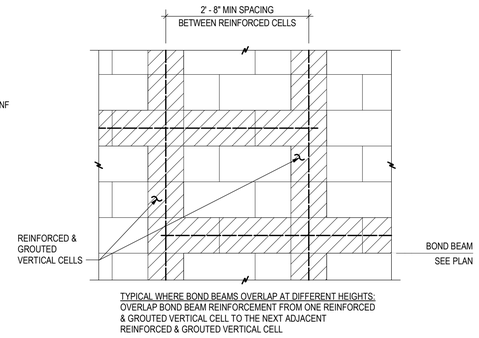


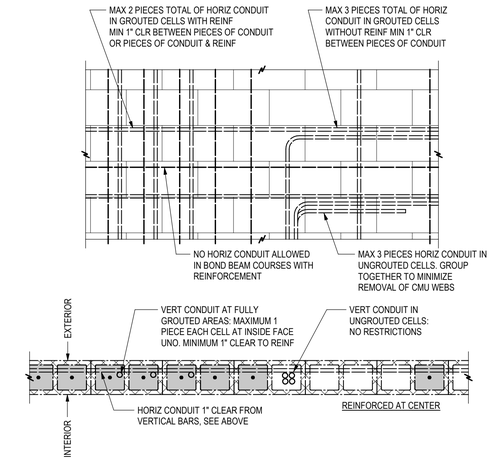
6 S502 TYP CMU VERT CONTROL JOINT IN WALL
3/4" = 1'-0"



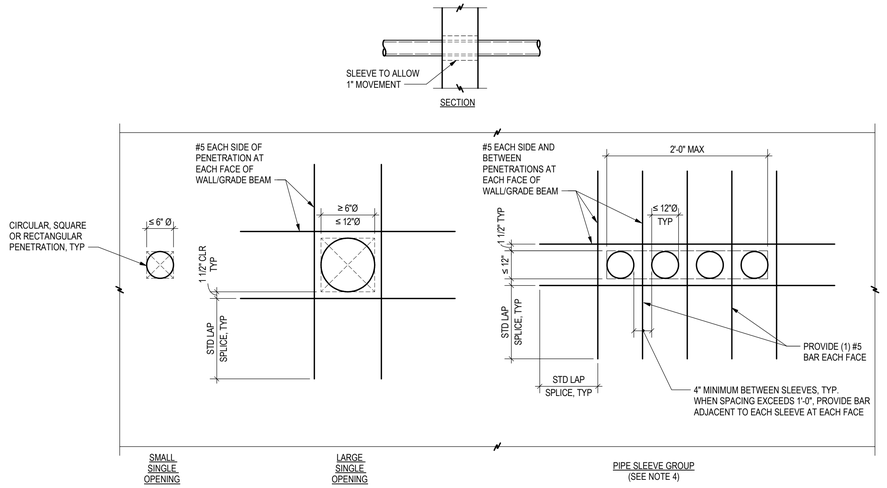
7 S502 TYP CMU WALL INTERSECTIONS
3/4" = 1'-0"



8 S502 TYP CMU BOND BEAM LAP
3/4" = 1'-0"

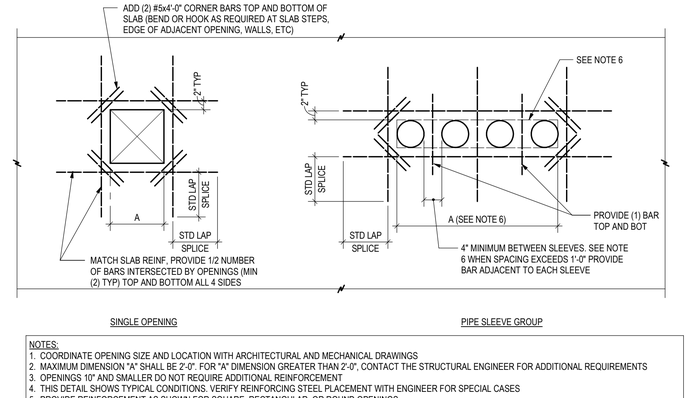


9 S502 TYP CMU CONDUIT PLACEMENT IN WALL
3/4" = 1'-0"



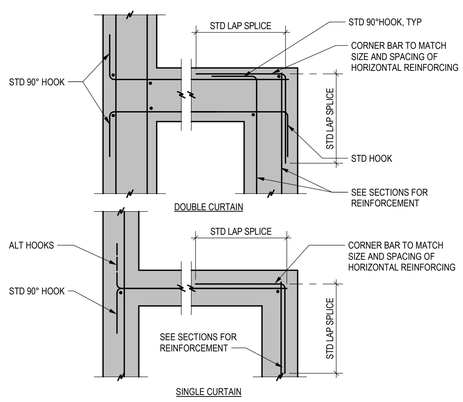
NOTES:
1. COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. LOCATE PIPE SLEEVES WITHIN THE MIDDLE THIRD OF THE MEMBER DEPTH.
3. THIS DETAIL SHOWS TYPICAL CONDITIONS. VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES.
4. A PIPE SLEEVE GROUP EXISTS WHEN THE EDGE-TO-EDGE SPACING OF TWO OR MORE ADJACENT PENETRATIONS IS LESS THAN 2x THE WIDTH OF THE LARGER PENETRATION.

4 S502 GRADE BEAM SLEEVE PENETRATIONS
3/4" = 1'-0"

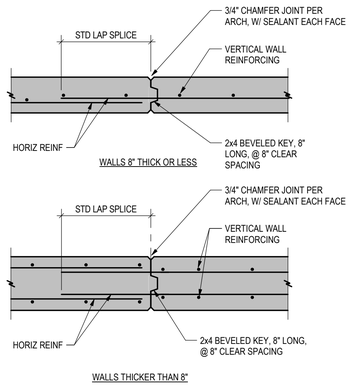


NOTES:
1. COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS
2. MAXIMUM DIMENSION "A" SHALL BE 2'-0". FOR "A" DIMENSION GREATER THAN 2'-0", CONTACT THE STRUCTURAL ENGINEER FOR ADDITIONAL REQUIREMENTS
3. OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT
4. THIS DETAIL SHOWS TYPICAL CONDITIONS. VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES
5. PROVIDE REINFORCEMENT AS SHOWN FOR SQUARE, RECTANGULAR, OR ROUND OPENINGS
6. FOR PIPE SLEEVE CLEAR SPACING LESS THAN 4", THE SLEEVE GROUP SHALL BE TREATED AS AN EQUIVALENT RECTANGULAR OPENING WITH LENGTH "A" (2'-0" MAX)

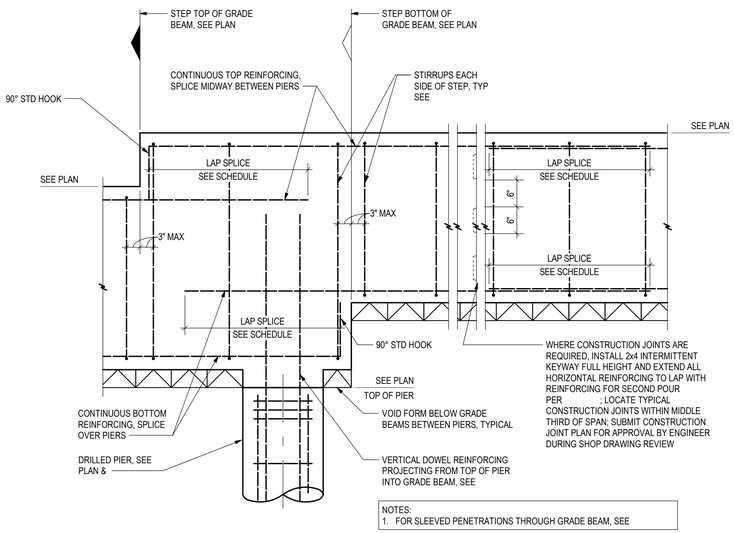
5 S502 TYP CONC TRIM BARS AT SLAB OPENINGS 2'-0 OR LESS
3/4" = 1'-0"



1 S502 TYP CONC WALL INTERSECTIONS
3/4" = 1'-0"



2 S502 TYP CONC VERT JOINT IN WALL
3/4" = 1'-0"



NOTES:
1. FOR SLEEVED PENETRATIONS THROUGH GRADE BEAM, SEE

3 S502 TYP CONC STEP IN GRADE BEAM
3/4" = 1'-0"

0 6" 1' 2' 3'

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Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com
JVA # 25121ZSTR

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1650 S INDIANA ST, SUPERIOR, CO 80027

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TYPICAL DETAILS - CONCRETE & MASONRY

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WOOD FRAMING FASTENING SCHEDULE		
CONNECTION	FASTENING	LOCATION
1. JOIST/RAFTER/BLOCKING TO BEARING SUPPORT	(3) 8d COMMON [OR] (3) 12d SINKER	TOENAIL
2. BRIDGING/BLOCKING TO JOIST	(2) 8d COMMON [OR] (2) 12d SINKER	TOENAIL, EACH END
6. SOLE PLATE TO JOIST OR BLOCKING	16d COMMON @ 16" [OR] 12d SINKER @ 8"	FACE NAIL
7. STUD TO TOP AND SOLE PLATE	(2) 16d COMMON [OR] (3) 12d SINKER	END NAIL
8. STUD TO SOLE PLATE	(4) 8d COMMON [OR] (4) 12d SINKER	TOENAIL
9. DOUBLE STUDS AND BUILT-UP CORNER STUDS	16d COMMON @ 24" [OR] 12d SINKER @ 8"	FACE NAIL, EACH STUD
10. DOUBLE TOP PLATES	16d COMMON @ 16" [OR] 12d SINKER @ 12"	TYPICAL FACE NAIL
	(8) 16d COMMON [OR] (12) 12d SINKER	LAP SPLICE FACE NAIL
12. RIM JOIST AND JOIST BLOCKING TO TOP PLATE	8d COMMON @ 6" [OR] 12d SINKER @ 6"	TOENAIL
13. TOP PLATE INTERSECTION	(2) 16d COMMON [OR] (3) 12d SINKER	FACE NAIL
14. BUILT UP HEADER	16d COMMON @ 16" [OR] 12d SINKER @ 12"	FACE NAIL ALONG EACH EDGE, EACH 2x
16. HEADER TO KING STUD	(4) 8d COMMON* [OR] (4) 12d SINKER	TOENAIL

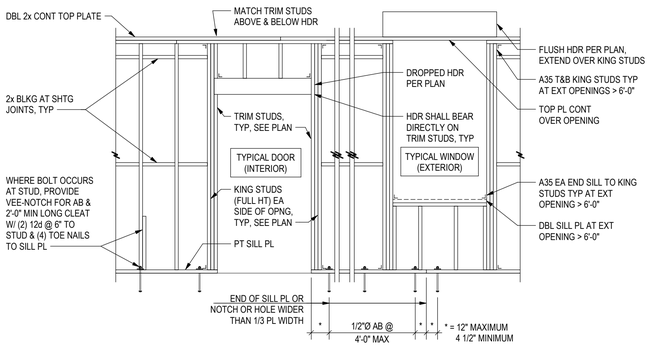
GENERAL NOTES:
1. REFER TO IBC TABLE 2304.9.1 FOR MORE INFORMATION.
2. ALL FASTENINGS ARE TYPICAL UNLESS NOTED OTHERWISE.

1 S503 TYP WOOD FASTENING SCHED
NO SCALE

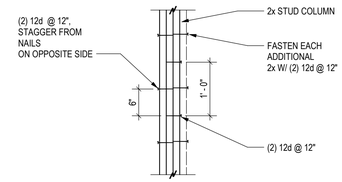
PENNYWEIGHT	TYPE	DIAMETER	LENGTH
8d	COMMON	0.131"	2-1/2"
8d	BOX	0.113"	2-1/2"
8d	SINKER	0.113"	2-3/8"
8d	GUN	0.113"	2-3/8"
10d	COMMON	0.148"	3"
10d	BOX	0.128"	3"
10d	SINKER	0.120"	2-7/8"
10d	GUN	0.131"	3"
12d	COMMON	0.148"	3-1/4"
12d	BOX	0.128"	3-1/4"
12d	SINKER	0.135"	3-1/8"
12d	GUN	0.131"	3-1/4"
16d	COMMON	0.162"	3-1/2"
16d	BOX	0.135"	3-1/2"
16d	SINKER	0.148"	3-1/4"

NOTE:
COMMON NAILS SHALL BE USED UNLESS OTHERWISE NOTED

2 S503 TYP WOOD NAILING SCHED
NO SCALE



3 S503 TYP WOOD STUD WALL ELEVATION
NO SCALE



4 S503 TYP WOOD BUILT-UP STUD COLUMN
NO SCALE

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Fax: 303.444.1957 E-mail: info@jvajva.com

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TYPICAL DETAILS - WOOD

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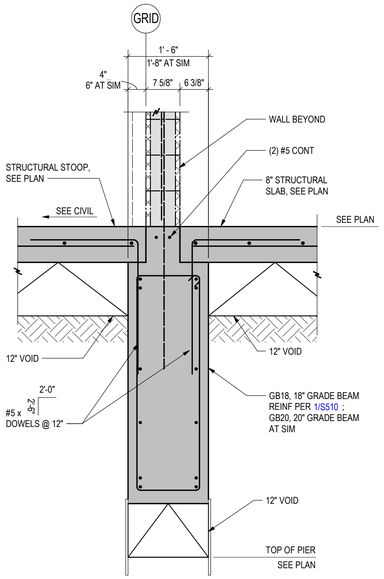
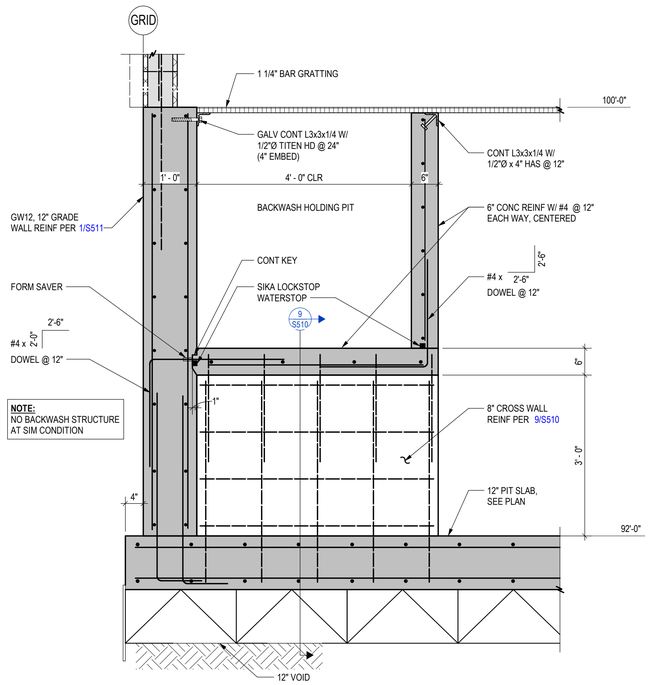


6 S510 SECTION
3/4" = 1'-0"



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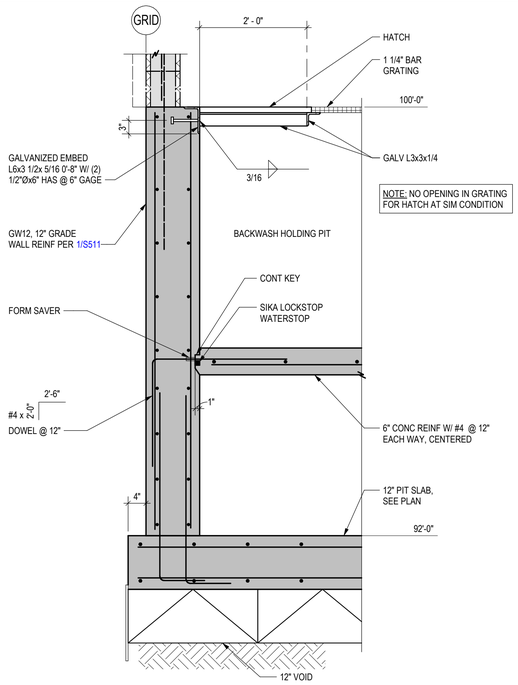

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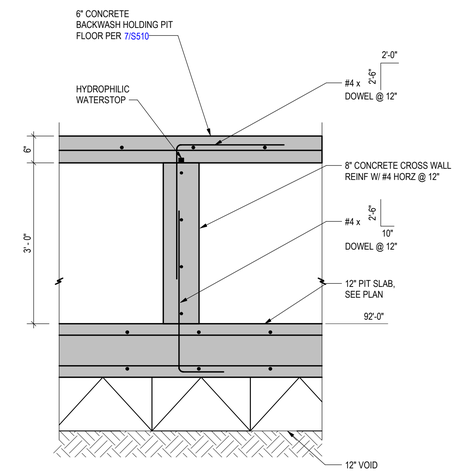

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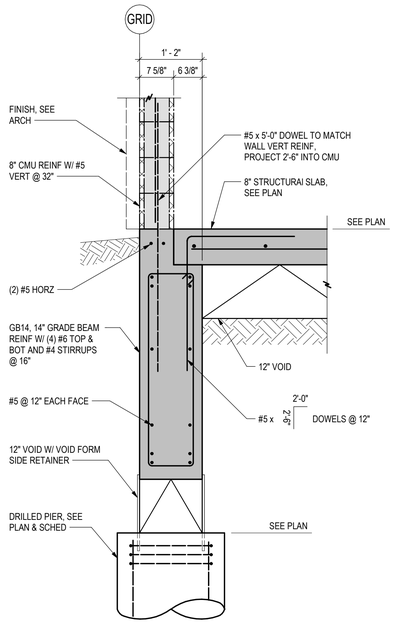
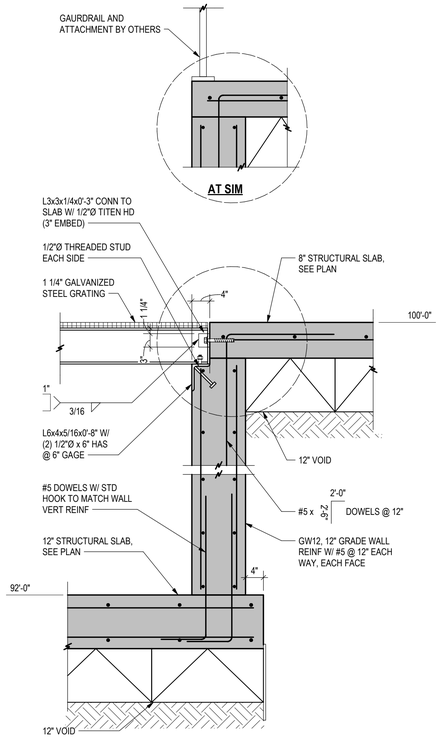


1 S510 SECTION
3/4" = 1'-0"

0 6" 1' 2' 3'



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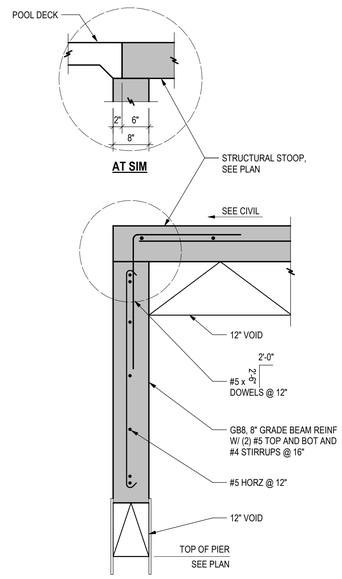

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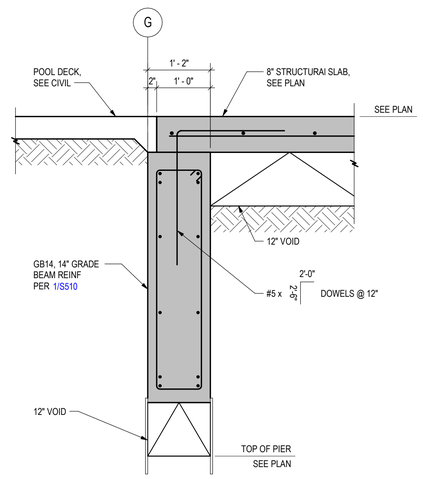

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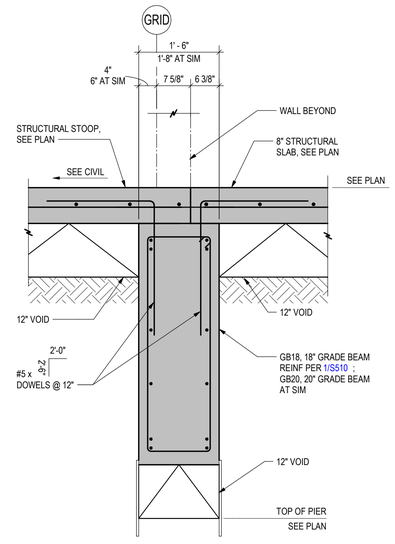

5 S510 SECTION
3/4" = 1'-0"

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SECTIONS & DETAILS

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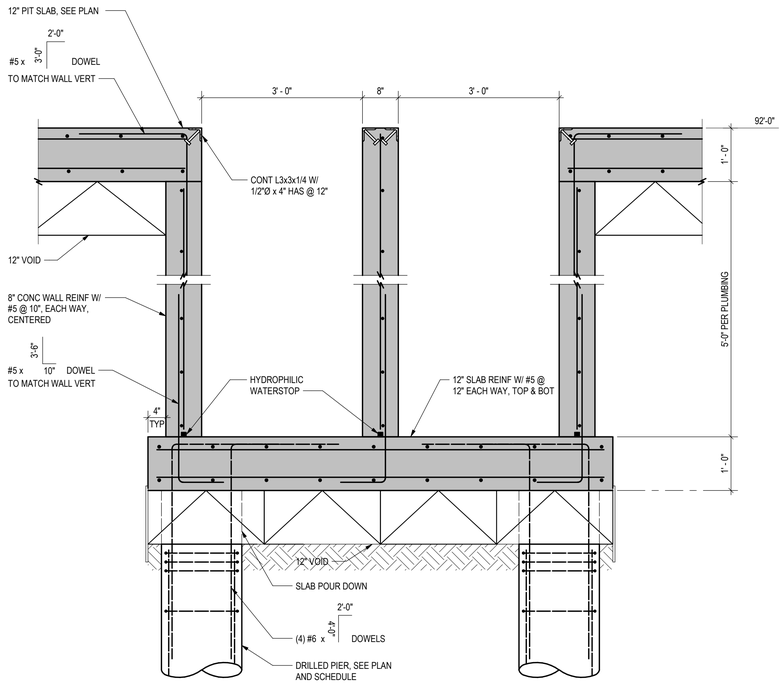

5 S511 **SECTION**
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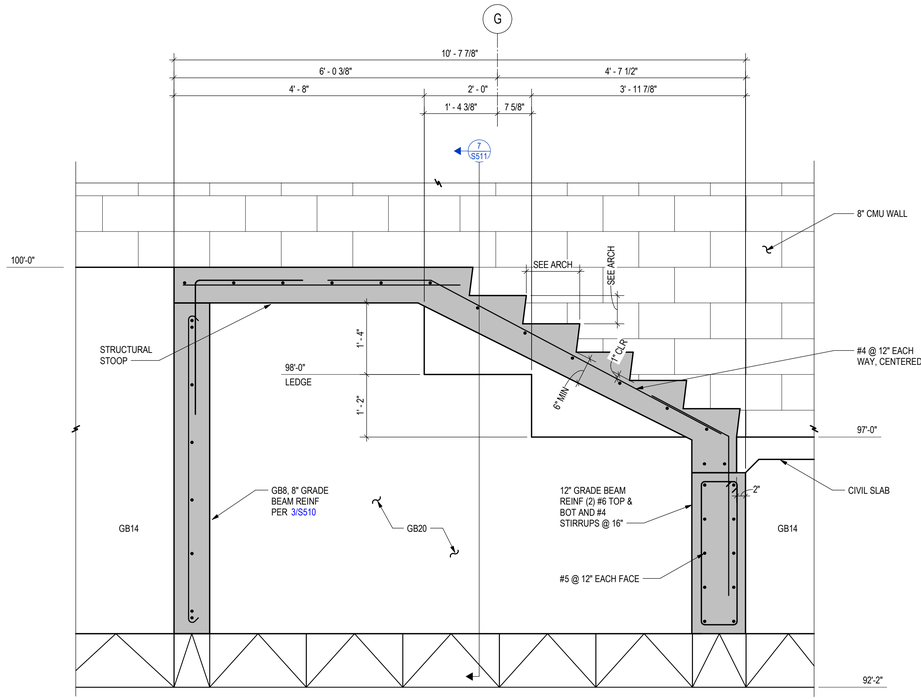

6 S511 **ELEVATION**
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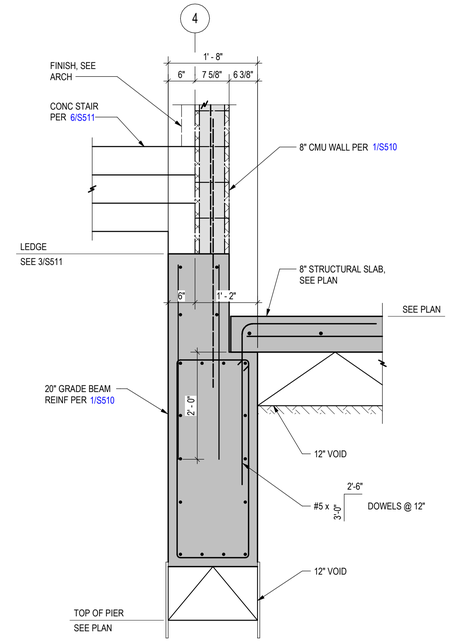

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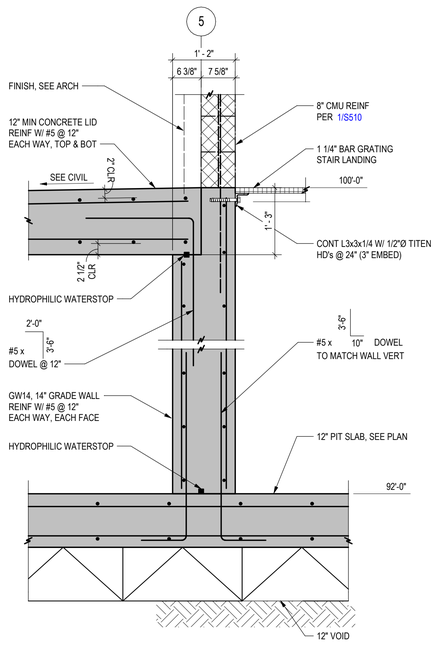
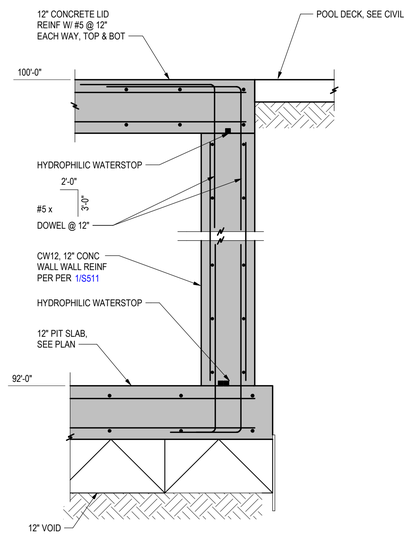


1 S511 **SECTION**
3/4" = 1'-0"
0 6" 1' 2' 3'



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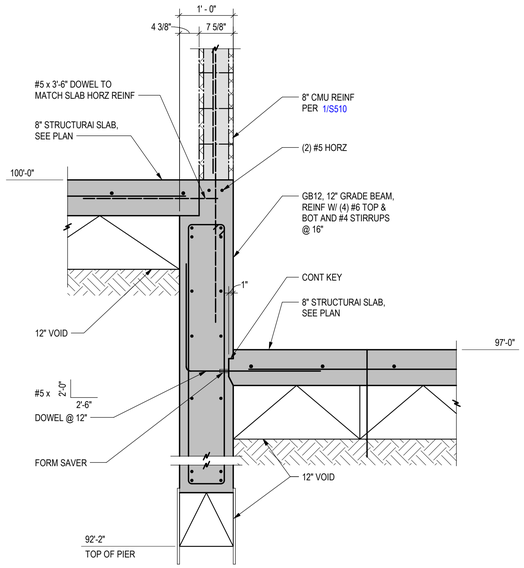
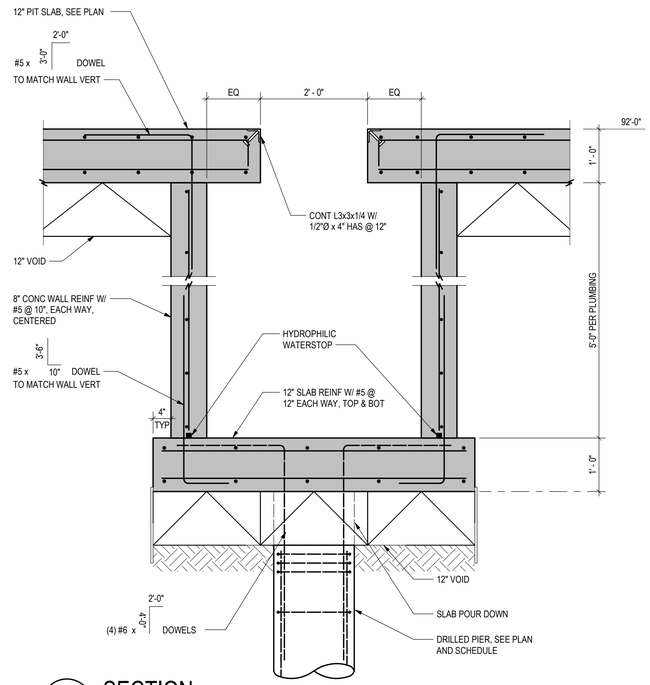


3 S511 **SECTION**
3/4" = 1'-0"



4 S511 **SECTION**
3/4" = 1'-0"

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
Fax: 303.444.1957 E-mail: info@jvajva.com
JVA # 25127.STR

North Pool Renovation
1650 S INDIANA ST, SUPERIOR, CO 80027

Project Number: 2025.009
Issue: 100% CD DOCUMENTS
Date: 01.09.2026
Drawn By: LB/ MDL
Checked By: MDL/ DMP
Revisions:
Description Date:

COLORADO REGISTERED PROFESSIONAL ENGINEER 36759 01.07.26

Sheet title:
SECTIONS & DETAILS

S511

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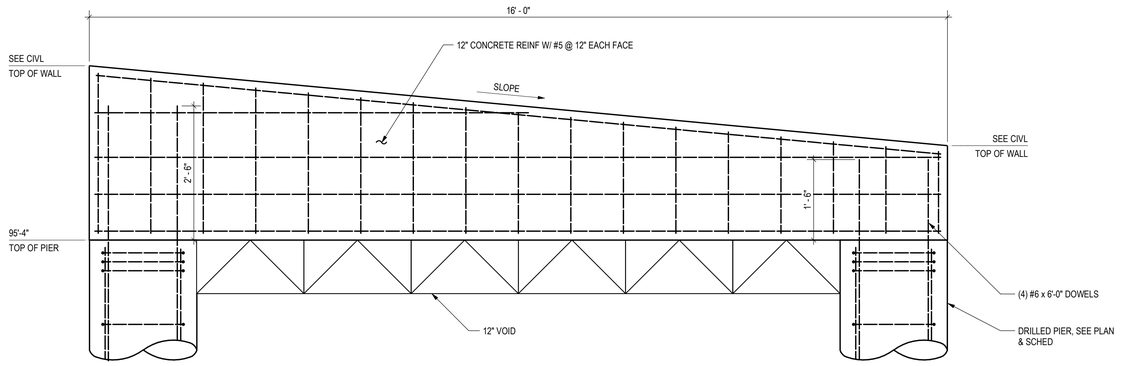
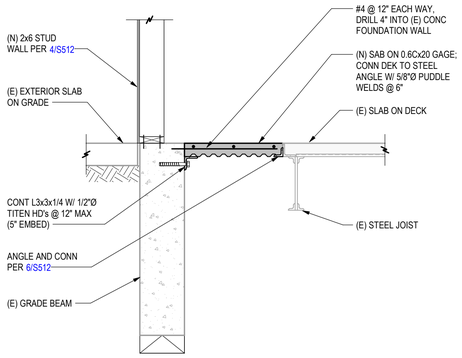
1/15/2026 12:55:28 PM Autodesk Docs://Superior North Pool Renovation/251612.STR Superior North Pool JVA Struct S24.rvt



8 / S512 RETAINING WALL
3/4" = 1'-0"



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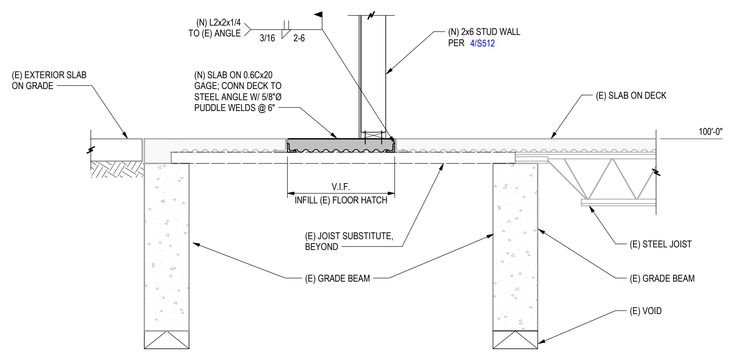

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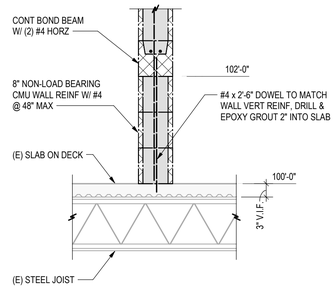
3/4" = 1'-0"



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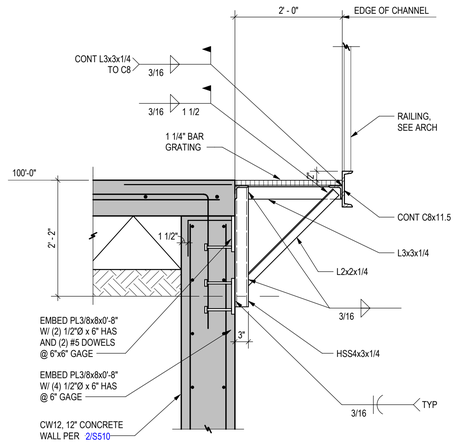
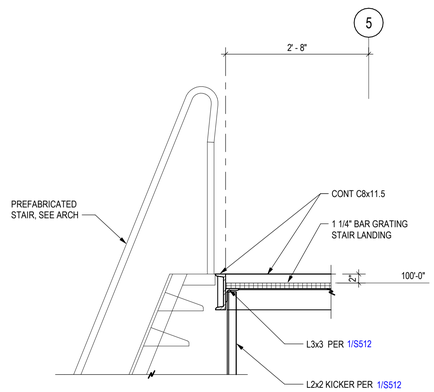
3/4" = 1'-0"



1 / S512 SECTION
3/4" = 1'-0"

0 6" 1' 2' 3'



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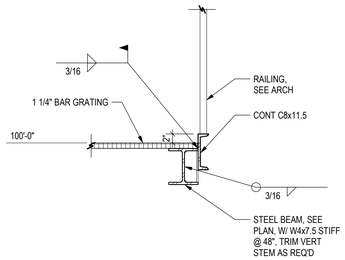
3/4" = 1'-0"



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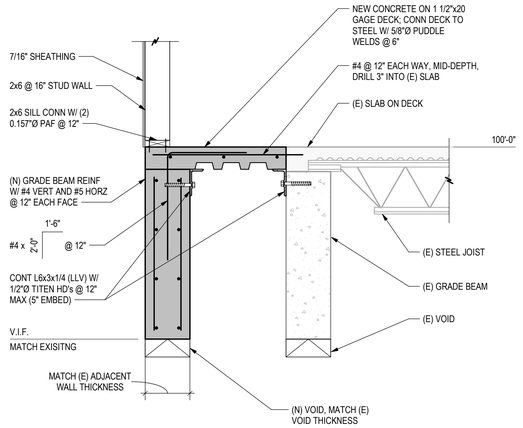
3/4" = 1'-0"



4 / S512 SECTION
3/4" = 1'-0"

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brsarch.com
JVA, Incorporated 1319 Spruce Street
Boulder, CO 80302 Phone: 303.444.1951
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COLORADO REGISTERED MATTHEW D. PHILLIPS 38759 PROFESSIONAL ENGINEER 01.07.26

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SECTIONS & DETAILS

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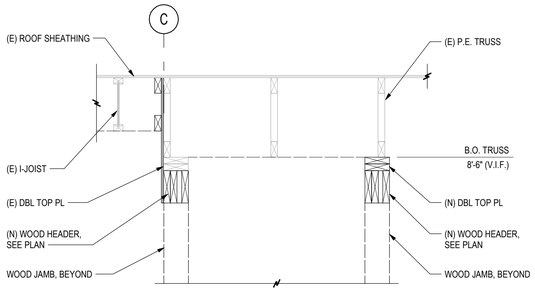
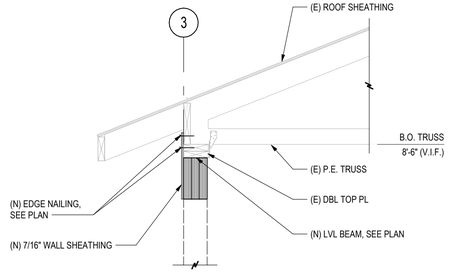
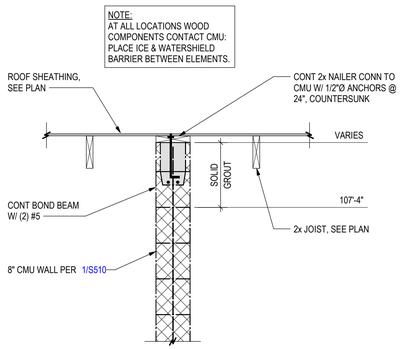


10 S520 **SECTION**
3/4" = 1'-0"



11 S520 **ROOF TRUSS AT EXT WALL**
3/4" = 1'-0"



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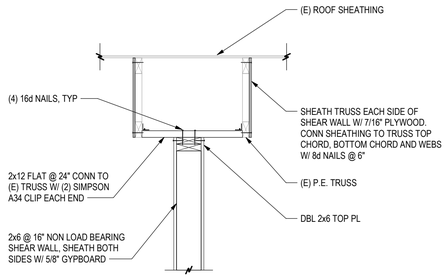
3/4" = 1'-0"



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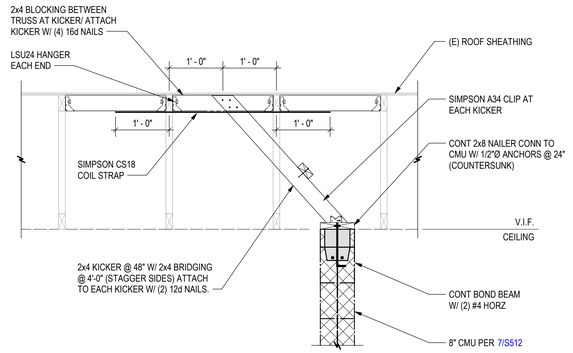
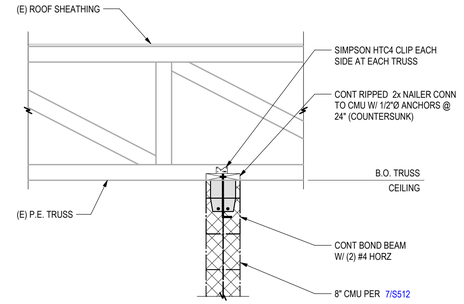
3/4" = 1'-0"



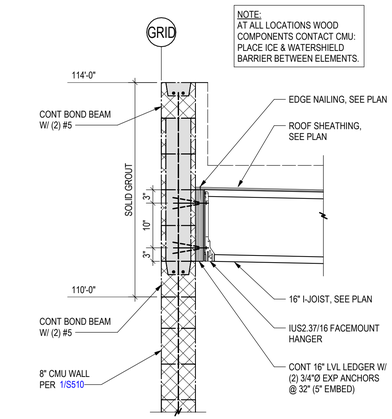
AT WALL PARALLEL TO (E) TRUSSES

8 S520 **SECTION**
3/4" = 1'-0"



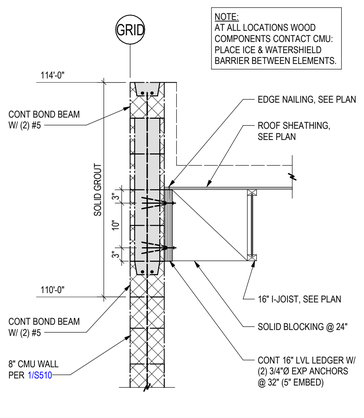
AT WALL PERPENDICULAR TO (E) TRUSSES

9 S520 **SECTION**
3/4" = 1'-0"



1 S520 **SECTION**
3/4" = 1'-0"

0 6" 1' 2' 3'



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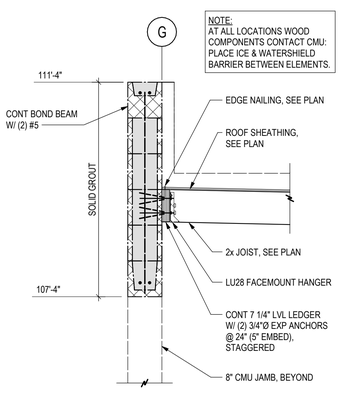

3 S520 **SECTION**
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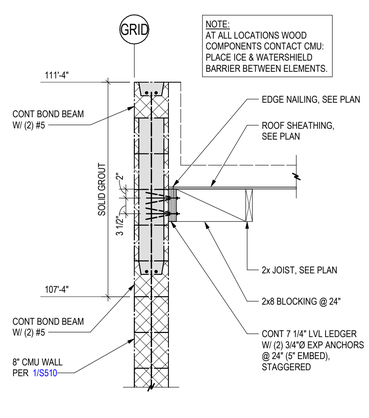

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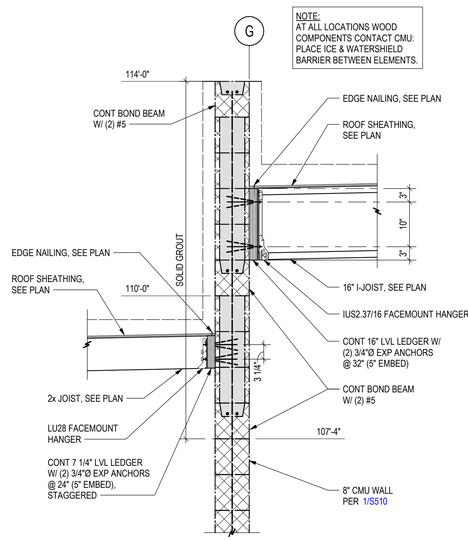

5 S520 **SECTION**
3/4" = 1'-0"

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brsarch.com
JVA CONSULTING ENGINEERS
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ROOF FRAMING DETAILS

S520

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1/15/2026 12:55:28 PM Autodesk Docs://Superior North Pool Renovation/251612.STR Superior North Pool JVA Struct S24.rvt

GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
F.P.C.		FIRE PROTECTION CONTRACTOR
K.E.C.		KITCHEN EQUIPMENT CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
SF		SUPPLY FAN
EF		EXHAUST FAN
RF		RETURN FAN
UH		UNIT HEATER
CUH		CABINET UNIT HEATER
FCU		FAN COIL UNIT
P		PUMP
B		BOILER
LVR		LOUVER
PDU		POOL DEHUMIDIFICATION UNIT
SD		SLOT DIFFUSER
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
FG		FLOOR GRILLE
RR		RETURN REGISTER
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR
MA		MAKE-UP AIR

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
PHWS	PHWS	POOL HEATING WATER SUPPLY
PHWR	PHWR	POOL HEATING WATER RETURN
MCD	M / S	MOTORIZED CONTROL DAMPER
	S	BACKDRAFT DAMPER
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
		EXISTING FIRE DAMPER
		EXISTING COMBINATION MOTORIZED FIRE/SMOKE DAMPER
	$	WALL SWITCH
	$P	WALL SWITCH WITH PILOT LIGHT
	T H	THERMOSTAT / HUMIDISTAT
	T H CO	TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
	T CO / H CO	COMBINATION TEMPERATURE SENSORS
	EPO	EMERGENCY POWER OFF SWITCH
	OSS	OCCUPANCY SENSOR
	S	SMOKE DETECTOR
	P	PRESSURE SENSOR
	MS	MOTOR STARTER
	V	VELOCITY SENSOR
	FMD	ANALOG FLOW MEASURING DEVICE
	VFD	VARIABLE FREQUENCY DRIVE
	#	ANALOG OUTPUT
	#	ANALOG INPUT
	#	DIGITAL OUTPUT
	#	DIGITAL INPUT
	SPT	STATIC PRESSURE TRANSMITTER
	DPT	DIFFERENTIAL PRESSURE TRANSMITTER
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND SUPPLY DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
	20 / 20	OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING WITHOUT MANUAL VOLUME DAMPER
		45° TAKEOFF
		STANDARD RADIUS ELBOW
	10x8	NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
	10"ø	NEW ROUND DUCTWORK - DIAMETER
	(E)10x8	EXISTING DUCTWORK TO REMAIN
	10x8	EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
RG/EG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY

MECHANICAL DEMOLITION GENERAL NOTES

1. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
2. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
3. EXISTING MECHANICAL WORK IS SHOWN LIGHT.
4. ALL MECHANICAL ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE MECHANICAL CONTRACTOR.
5. ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING, AND CONTROL COMPONENTS SHALL BE REMOVED.
6. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
7. THE REMOVAL OR INSTALLATION OF CONTROLS, PIPES, DUCTS, AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
8. THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALL TO MATCH EXISTING AT THE DEMOLISHED CONTROLS.
9. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
10. THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
11. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.

MECHANICAL GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
3. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COORDINATION OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE USE OR INSTALLATION OF EQUIPMENT OTHER THAN THAT OF THE BASIS OF DESIGN MANUFACTURERS LISTED ON THE DRAWINGS.
5. THE MECHANICAL SYSTEM SHOWN SHALL BE ROUTED AS HIGH AS POSSIBLE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
7. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THE PROJECT.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ALL THERMOSTATS, SENSORS, AND SWITCHES SHALL BE LOCATED 48" A.F.F. UNLESS INDICATED OTHERWISE.
9. COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH EXISTING CONDITIONS AND THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. WHERE POSSIBLE MATCH LOCATION OF PREVIOUS CONTROL. PROVIDE WIRE MOLD TO CONCEAL EXPOSED CONTROL WIRING AND TUBING. COLOR TO BE SELECTED BY THE ARCHITECT.
10. BALANCE AIR AND WATER SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT(S) TO THE ARCHITECT/ENGINEER FOR REVIEW.
11. PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.
12. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS LOCATED ABOVE INACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS AND 24"x24" ACCESS DOORS FOR HEAD AND SHOULDER ACCESS.

MECHANICAL PIPING NOTES

1. REFRIGERANT PIPING AND INSULATION: REFER TO SPECIFICATION SECTIONS 23 2000 AND 23 0700 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
2. INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS. PROVIDE 12"x12" ACCESS DOORS FOR ALL VALVES ABOVE GYPSUM CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT DURING COORDINATED SHOP DRAWING REVIEW.
3. ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
4. PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.

SHEET INDEX

SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M000	HVAC COVER SHEET	NONE	X
M021	HVAC DEMOLITION PLAN	1/4" = 1'-0"	X
M101a	FIRST FLOOR HVAC PLAN - BATHHOUSE	1/4" = 1'-0"	X
M101c	FIRST FLOOR HVAC PLAN - AUX. MECH BUILDING	1/4" = 1'-0"	X
M102	HVAC ROOF PLAN - BATHHOUSE	1/4" = 1'-0"	X
M103	HVAC ROOF PLAN - AUX. MECH BUILDING	1/4" = 1'-0"	X
M600	HVAC SCHEDULES	NONE	X
M700	HVAC DETAILS	NONE	X

MECHANICAL HVAC NOTES

1. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.
2. FLEXIBLE DUCTWORK SHALL BE INSULATED AND SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
3. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES AS SHOWN.
4. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
5. ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES, ALL DUCTWORK CROSSING RATED CORRIDORS SHALL BE A MINIMUM 24 GAUGE SHEETMETAL. MEET OR EXCEED SMACNA STANDARDS.
6. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
7. ALL RECTANGULAR SUPPLY, RETURN AND TRANSFER DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
8. ALL EXHAUST DUCTWORK SHALL BE UNLINED SHEETMETAL, UNLESS NOTED OTHERWISE.
9. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
10. ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
11. ALL CONCEALED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH EXTERNAL DUCT INSULATION. REFER TO SPECIFICATION 230700 FOR REQUIREMENTS.
12. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
13. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
14. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
15. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
16. COORDINATE LOUVER, WALL CAP AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
17. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE.
18. ALL EXPOSED DUCTWORK SHALL BE FREE OF IMPERFECTIONS AND DAMAGE. SEAL EXPOSED DUCTWORK IN A NEAT WORKMANSHIP LIKE MANNER SUITABLE FOR PAINTING.
19. THE GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED DUCTWORK, FITTINGS, ETC. IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATION.
20. ALL EXPOSED DUCTWORK THAT IS SPECIFIED TO BE PAINTED SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER TO PREPARE THE DUCT FOR FIELD PAINTING.
21. SPIN-IN FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL WITH MANUAL VOLUME DAMPERS, UNLESS THE AIR DEVICE IS PROVIDED WITH AN OPPOSED BLADE DAMPER.
22. RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
23. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE OR SHALL HAVE TURNING VANES UNLESS SHOWN OTHERWISE.
24. 12"x12" ACCESS DOORS SHALL BE PROVIDED FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
25. ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS.
26. ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT SHALL BE LOCATED AT LEAST 10'-0" FROM THE EDGE OF THE ROOF. THE GENERAL AND MECHANICAL CONTRACTOR SHALL VERIFY AND CONFIRM THE ACTUAL INSTALLED LOCATIONS OF ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT. IF THIS EQUIPMENT IS INSTALLED WITHIN 10'-0" OF THE ROOF EDGE, THE GENERAL CONTRACTOR SHALL INSTALL AN OSHA APPROVED GUARD RAIL.
27. FLUES FOR BOILERS, WATER HEATERS, AND POOL HEATERS SHALL BE ENGINEERED BY THE FLUE MANUFACTURER, BASED ON ACTUAL EQUIPMENT, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
28. DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC NETWORK CONTROLLER. DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC COMPUTER AND ASSOCIATED GRAPHICAL USER INTERFACE, CONTROL SERVER SOFTWARE. COORDINATE EXACT LOCATION FOR THE DDC COMPUTER WITH THE OWNER. DIVISION 26 SHALL PROVIDE MULTIPLE 20 AMP CIRCUITS IN THE CEILING SPACE TO SERVE VAV TERMINAL CONTROL TRANSFORMERS. EXACT CIRCUIT LOCATIONS SHALL BE COORDINATED WITH THE TEMPERATURE CONTROLS CONTRACTOR.
29. IN THE EVENT A VARIABLE FREQUENCY DRIVE IS ADDED TO AN EXISTING PIECE OF HVAC EQUIPMENT, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THE MAG STARTER HAS BEEN REMOVED. THE MECHANICAL CONTRACTOR SHALL ALSO VERIFY THAT THE MOTOR IS COMPATIBLE FOR OPERATION WITH A VARIABLE FREQUENCY DRIVE. IF THERE IS A CONFLICT WITH THE MOTOR, REPORT THE MOTOR DEFICIENCY IMMEDIATELY TO THE GENERAL CONTRACTOR.

BARKER RINKER SEACAT ARCHITECTURE

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The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

North Pool Renovation

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PAUL W. FRANKLIN
0048239
01-09-2026
PROFESSIONAL ENGINEER

Sheet title:
HVAC COVER SHEET

M000

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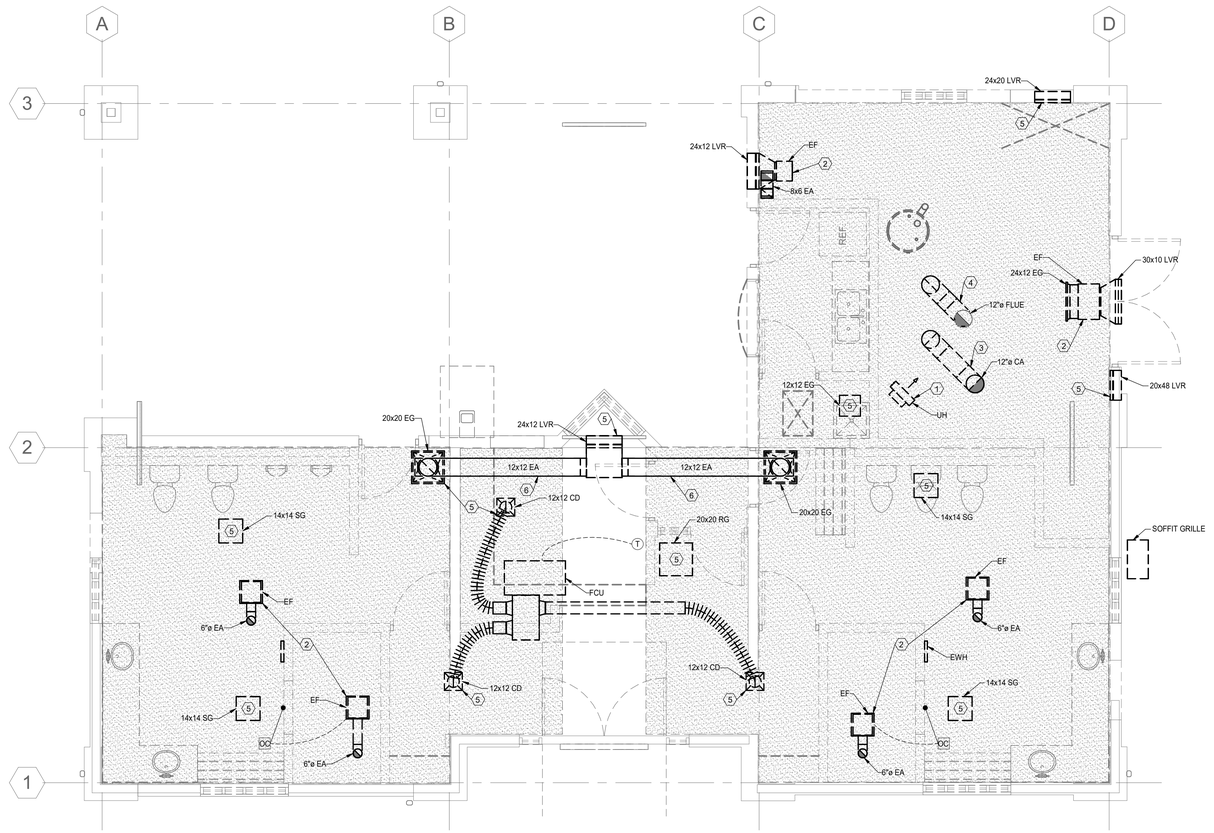
HVAC DEMOLITION KEYNOTES:

1. REMOVE EXISTING ELECTRIC HEATER.
2. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED CONTROLS, DUCTWORK AND APPURTENANCES. G.C. TO PATCH OPENING.
3. REMOVE EXISTING COMBUSTION AIR AND ALL HANGERS, SUPPORTS AND APPURTENANCES. G.C. TO PATCH OPENING IN ROOF.
4. FLUE THROUGH ROOF TO REMAIN. REMOVE UP TO POINT ABOVE NEW CEILING AND CAP. PREPARE FOR RECONNECTION.
5. REMOVE EXISTING GRILLES, REGISTERS AND DIFFUSERS. G.C. TO PATCH OPENINGS AS NEEDED.
6. REMOVE EXISTING DUCTWORK.



HVAC DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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PETER WILLIAM FALLA
0048239
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HVAC DEMOLITION PLAN

M021

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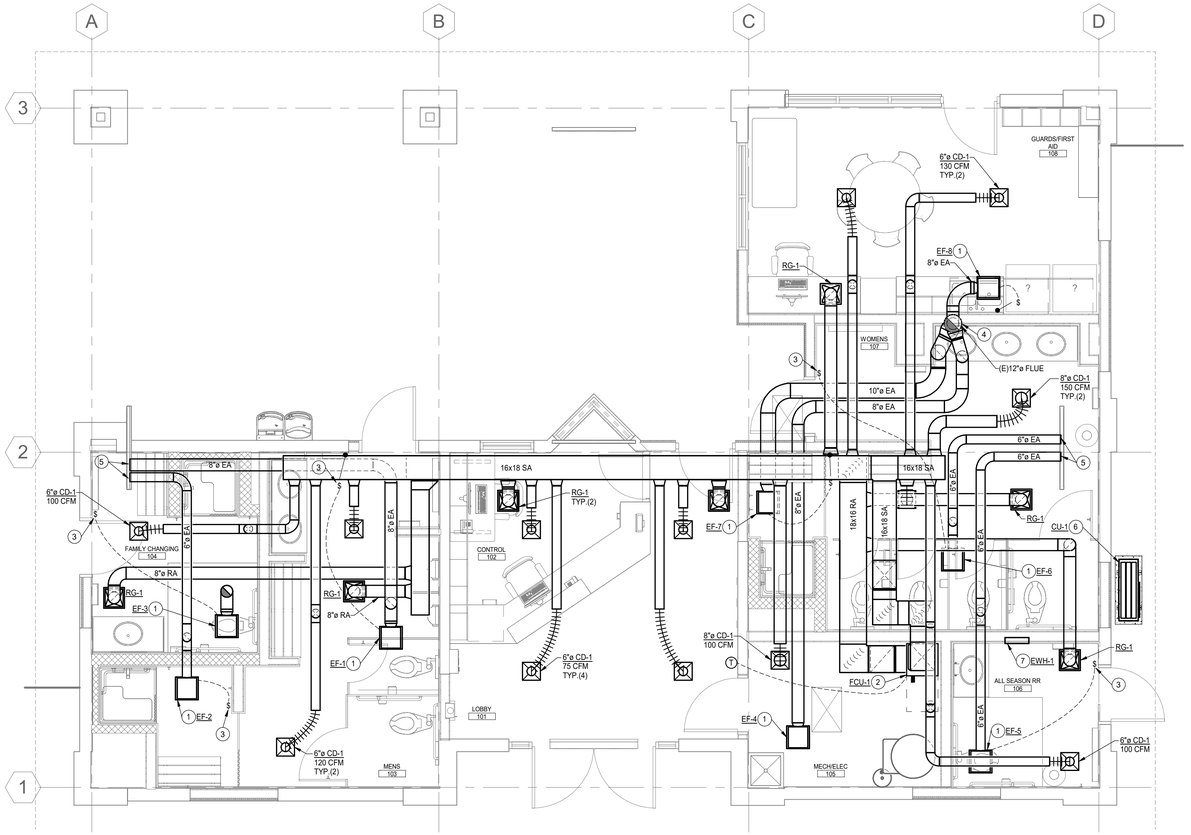
BATHHOUSE HVAC KEYNOTES:

1. CEILING MOUNTED EXHAUST FAN. REFER TO SCHEDULE FOR SIZE AND CAPACITY. REFER TO DETAIL.
2. VERTICAL DUCTED SPLIT SYSTEM INDOOR UNIT. ROUTE INDIVIDUALLY INSULATED REFRIGERANT LIQUID AND SUCTION LINES TO ASSOCIATED OUTDOOR UNIT. REFER TO SCHEDULE. REFER TO PLUMBING PLANS FOR CONDENSATE DRAIN.
3. OCCUPANCY SENSOR BY DIV. 26.
4. CONNECT EXHAUST DUCTWORK TO EXISTING FLUE THROUGH ROOF.
5. CONNECT EXHAUST DUCTWORK TO EXISTING LOUVER.
6. SPLIT SYSTEM OUTDOOR UNIT. MOUNTED ON CONCRETE PAD ON GRADE. REFER TO SCHEDULE.
7. RECESSED ELECTRIC WALL HEATER AS INDICATED. REFER TO SCHEDULES FOR SIZE AND CAPACITIES.



FIRST FLOOR HVAC PLAN - BATHHOUSE

SCALE: 1/4" = 1'-0"

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FIRST FLOOR HVAC PLAN - BATHHOUSE

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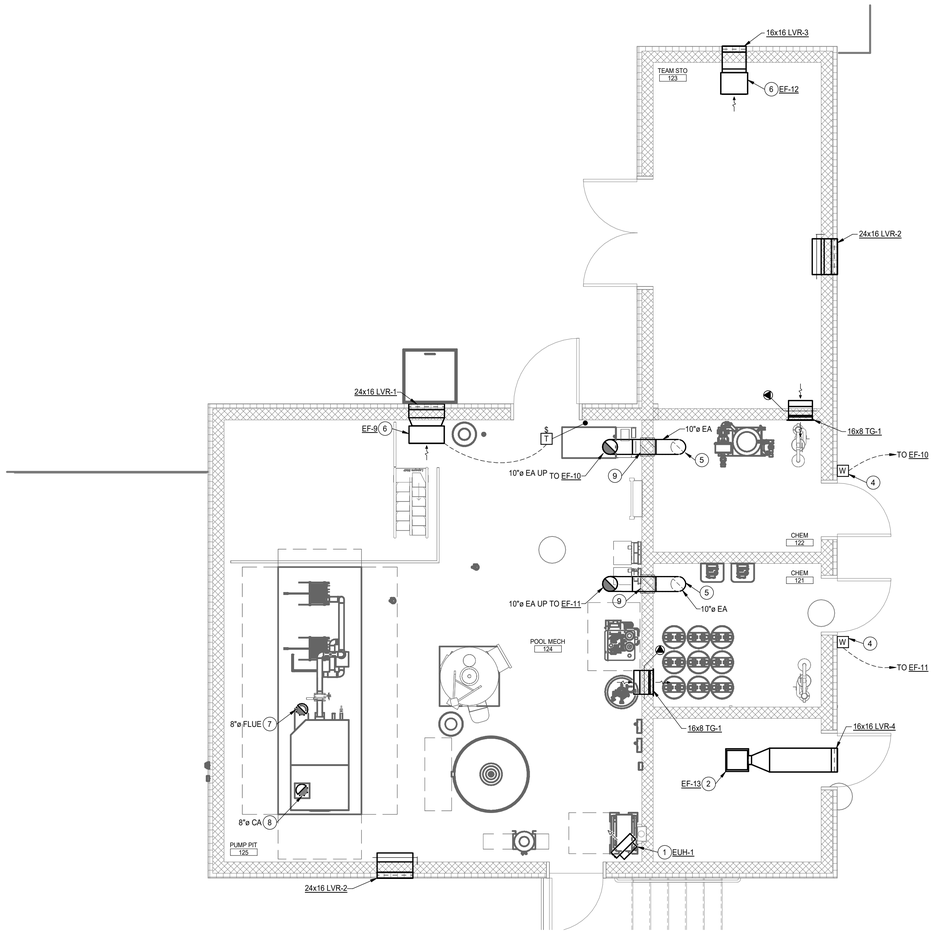
MECH BUILDING HVAC KEYNOTES:

1. ELECTRIC UNIT HEATER SET 9'-0" A.F.F. REFER TO SCHEDULE.
2. CEILING MOUNTED EXHAUST FAN. REFER TO SCHEDULE FOR SIZE AND CAPACITY. REFER TO DETAIL.
3. WALL MOUNTED DUCTLESS FAN COIL UNIT. ROUTE INDIVIDUALLY INSULATED REFRIGERANT SUCTION AND LIQUID LINES TO ASSOCIATED CONDENSING UNIT ON ROOF. REFER TO PLUMBING FOR CONDENSATE PIPE ROUTING. REFER TO SCHEDULE FOR SIZE AND CAPACITIES.
4. CHEMICAL EXHAUST FAN WARNING SIGN. SET 5'-0" A.F.F. COORDINATE CONDUIT REQUIREMENTS AND MASONRY BLOCK-OUT FOR SIGN.
5. TERMINATE PVC PIPE 6" A.F.F. LEAVE DUCT OPEN TO THE SPACE WITH NO INLET GRILLE OR SCREEN. SUPPORT FROM WALL WITH ALUMINUM, PLASTIC OR EPOXY COATED SUPPORTS.
6. INLINE EXHAUST FAN AS INDICATED MOUNTED AS HIGH AS POSSIBLE WITH VIBRATION ISOLATION. REFER TO SCHEDULE FOR SIZE, CAPACITIES AND FAN CONTROL REQUIREMENTS.
7. AL29-4C FLUE OF SIZE INDICATED FROM BOILER CONNECTION UP THROUGH ROOF. FLUE SHALL BE INSTALLED WITH NO SECTIONS LESS THAN 45° ANGLE WITH LONG RADIUS ELBOWS. CONFIRM MATERIALS AND SIZING REQUIREMENTS WITH THE SUCCESSFUL POOL HEATER MANUFACTURER. REFER TO AQUATICS PLANS FOR BOILER REQUIREMENTS. REFER TO ROOF PLAN FOR CONTINUATION.
8. SINGLE WALL GALVANIZED COMBUSTION AIR DUCT OF SIZE INDICATED FROM BOILER CONNECTION UP THROUGH ROOF. WRAP WITH 1" INSULATION TO PREVENT CONDENSATION. CONFIRM MATERIALS AND SIZING REQUIREMENTS WITH THE SUCCESSFUL POOL HEATER MANUFACTURER. REFER TO AQUATICS PLANS FOR BOILER REQUIREMENTS. REFER TO ROOF PLAN FOR CONTINUATION.
9. PROVIDE AN INTUMESCENT PIPE COLLAR AT RATED WALL OR CEILING PENETRATION TO MAINTAIN RATING.



FIRST FLOOR HVAC PLAN - AUX. MECHANICAL BUILDING

SCALE: 1/4" = 1'-0"

N

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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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FIRST FLOOR HVAC PLAN - AUX. MECH BUILDING

M101c

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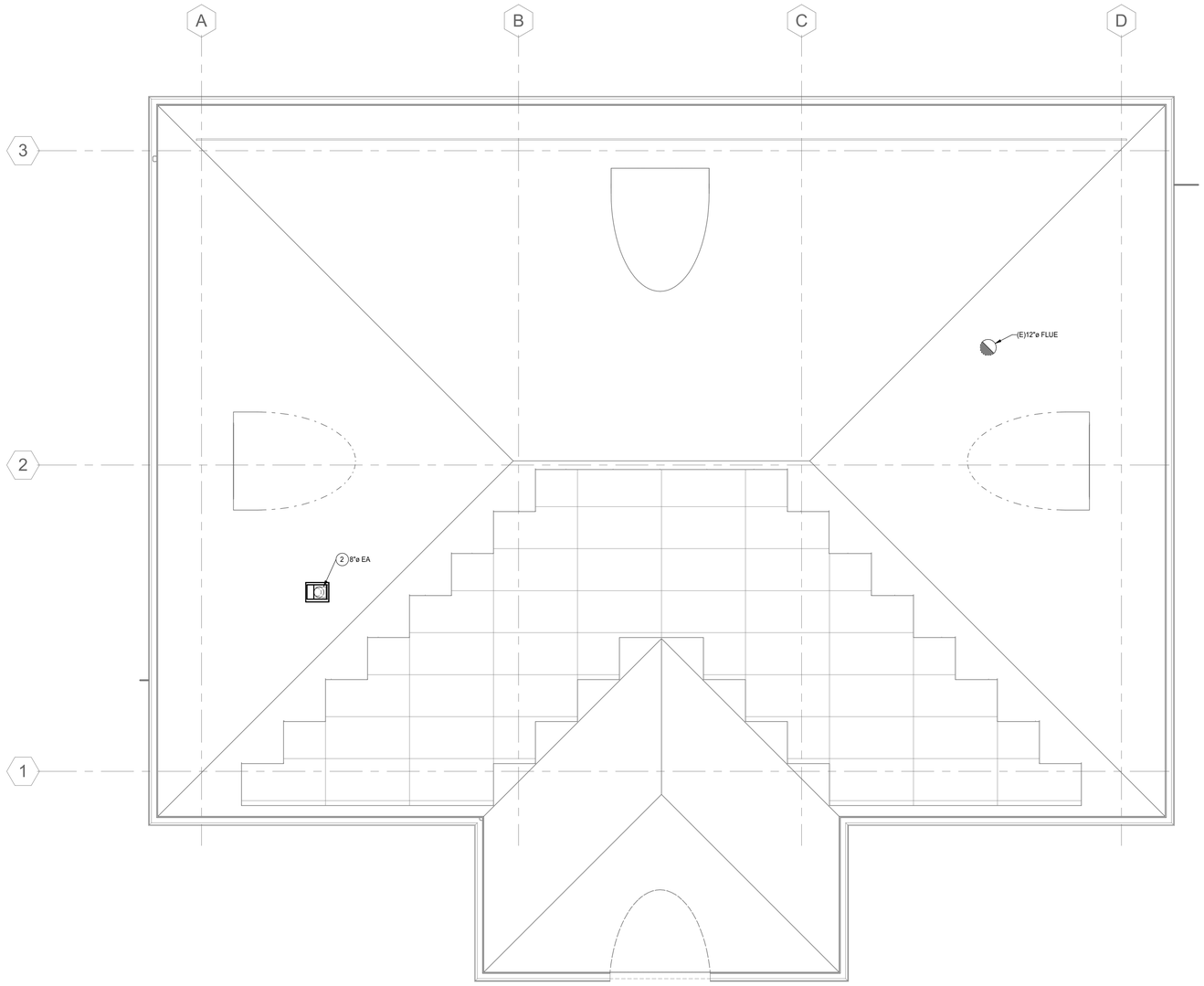

HVAC ROOF PLAN - BATHHOUSE

SCALE: 1/4" = 1'-0"

N

ROOF HVAC KEYNOTES:

1. CHEMICAL EXHAUST FAN MOUNTED ON 14" ROOF CURB. TERMINATE 10"ø CPVC EXHAUST DUCT WITH MANUFACTURER'S CLEAN AIR STACK.
2. EXHAUST DUCT FROM FAN BELOW. TERMINATE ABOVE ROOF WITH A RESIDENTIAL PITCHED ROOF STYLE VENT CAP. ENSURE TERMINATION IS NO CLOSER THAN 10'-0" FROM NEAREST INTAKE.
3. AL29-4C FLUE OF SIZE INDICATED FROM POOL EQUIPMENT BELOW. FLUE MUST TERMINATE AT LEAST 3'-0" ABOVE ROOF PENETRATION AND 2'-0" ABOVE PARAPET WALL. FLUE MUST TERMINATE IN AN UP-TURNED COUPLING WITH A BIRD SCREEN AT LEAST 1'-0" ABOVE THE COMBUSTION AIR INTAKE.
4. SINGLE WALL GALVANIZED COMBUSTION AIR OF SIZE INDICATED FROM POOL EQUIPMENT BELOW. COMBUSTION AIR MUST TERMINATE IN A DOWN-TURNED 180° RETURN PIPE WITH A BIRD SCREEN NO FURTHER THAN 2'-0" FROM THE CENTER OF THE FLUE.

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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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HVAC ROOF PLAN - BATHHOUSE

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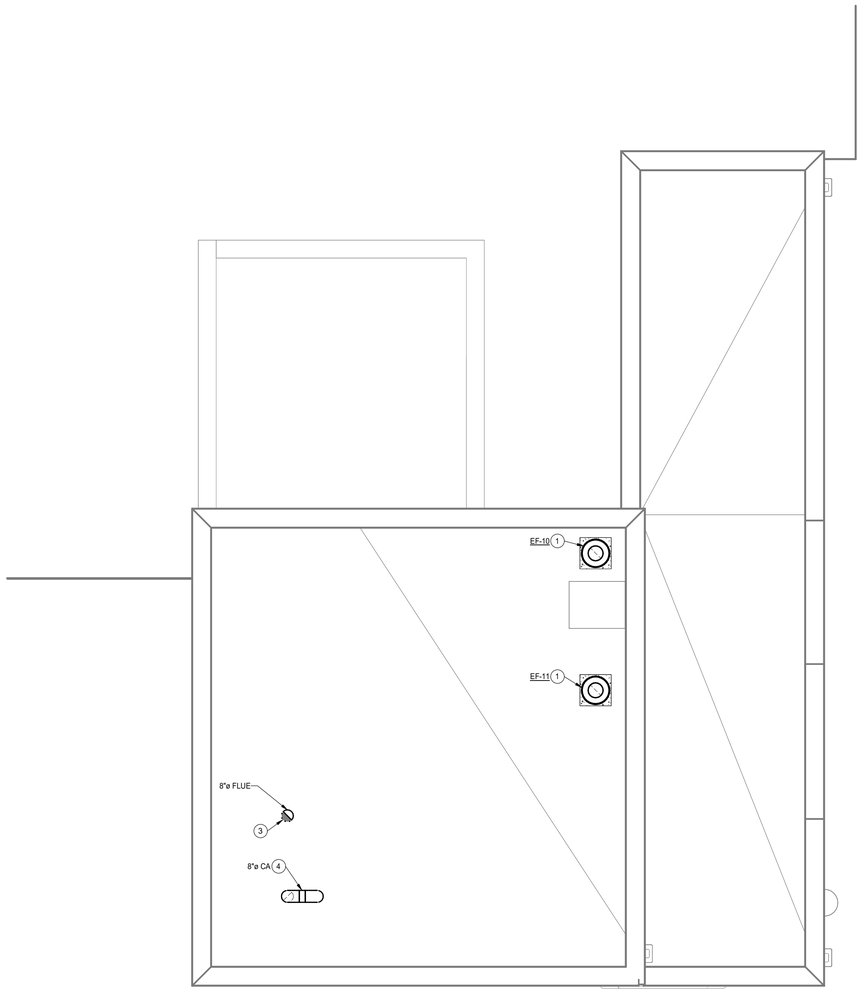

HVAC ROOF PLAN - AUX. MECHANICAL BUILDING

SCALE: 1/4" = 1'-0"

N

ROOF HVAC KEYNOTES:

1. CHEMICAL EXHAUST FAN MOUNTED ON 14" ROOF CURB. TERMINATE 10"ø CPVC EXHAUST DUCT WITH MANUFACTURER'S CLEAN AIR STACK.
2. EXHAUST DUCT FROM FAN BELOW. TERMINATE ABOVE ROOF WITH A RESIDENTIAL PITCHED ROOF STYLE VENT CAP. ENSURE TERMINATION IS NO CLOSER THAN 10'-0" FROM NEAREST INTAKE.
3. AL29-4C FLUE OF SIZE INDICATED FROM POOL EQUIPMENT BELOW. FLUE MUST TERMINATE AT LEAST 3'-0" ABOVE ROOF PENETRATION AND 2'-0" ABOVE PARAPET WALL. FLUE MUST TERMINATE IN AN UP-TURNED COUPLING WITH A BIRD SCREEN AT LEAST 1'-0" ABOVE THE COMBUSTION AIR INTAKE.
4. SINGLE WALL GALVANIZED COMBUSTION AIR OF SIZE INDICATED FROM POOL EQUIPMENT BELOW. COMBUSTION AIR MUST TERMINATE IN A DOWN-TURNED 180° RETURN PIPE WITH A BIRD SCREEN NO FURTHER THAN 2'-0" FROM THE CENTER OF THE FLUE.

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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

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0048239
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HVAC ROOF PLAN - AUX. MECH BUILDING

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FAN COIL UNIT

PLAN CODE	MANUFACT. & MODEL NO.	SERVICE	CFM	COOLING COIL			TOTAL CAP. (MBH)	SENS. CAP. (MBH)	EAT		LAT		DIMENSIONS			WT. (LBS)
				REFRIG.	MAX SYSTEM CHARGE	SST (°F)			DB (°F)	WB (°F)	DB (°F)	WB (°F)	W (IN)	D (IN)	H (IN)	
FCU-1	MITSUBISHI PVA-AA48NL	BATHHOUSE	1400	R454B	11 LBS	45.0	51.7	39.9	80.0	62.0	48.0	47.5	25"	22"	60"	172

NOTES:
1. SYSTEM REQUIRES ONE ELECTRICAL CIRCUIT. POWER IS FED TO THE OUTDOOR CONDENSING UNIT. A BRANCH LINE IS THEN FED FROM THE CONDENSING UNIT TO THE INDOOR UNIT. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS.
2. PROVIDE UNIT WITH MANUFACTURER SUPPLIED MICROPROCESSOR CONTROLLER, LOW AMBIENT CONTROL AND LINE SET.
3. PROVIDE UNIT WITH PLENUM RATED CONDENSATE PUMP FOR ABOVE CEILING INSTALLATION WITH SEPARATE 120/1/60 POWER CONNECTION.
4. COOLING EFFICIENCY (SEER) = 14.0 MIN.
5. PROVIDE WITH FACTORY INSTALLED ELECTRIC DISCONNECT SWITCH.

CONDENSING UNIT

PLAN CODE	MANUFACT. & MODEL NO.	CAPACITY		AMBIENT (°F)	SST (°F)	ELECTRICAL (NOTE: 1)			DIMENSIONS				REMARKS
		TONS	MBH			V/ø/Hz	SYSTEM MCA	SYSTEM MOCP	W (IN)	H (IN)	D (IN)	WT. (LBS)	
CU-1	MITSUBISHI PUY-AK48NL	2.5	30.0	105.0	45.0	208/1/60	38.0	67.0	41"	14"	53"	265.0	NOTE: 2,3,4,5,6,7

6. PROVIDE WITH MANUFACTURER'S WIRED WALL MOUNTED THERMOSTAT.
7. PROVIDE UNIT WITH R454B REFRIGERANT.

FAN SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES	CFM	T.S.P. @ S.L.	RPM @ S.L.	MOTOR		DIMENSIONS			WT (LBS)	VIB. ISOL.	CONT.	DAMPER TYPE	REMARKS
								HP	V/Ø/HZ	H	W	L					
EF-1	GREENHECK SP-A510-VG	CEILING	MENS RR	5.0	350	0.50"	1239	1/6	120/1/60	15"	14"	18"	35	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-2	GREENHECK SP-A390-VG	CEILING	MENS SHOWER	4.5	100	0.50"	1327	1/15	120/1/60	11"	12"	14"	26	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-3	GREENHECK SP-A390-VG	CEILING	FAMILY CHANGING	4.5	150	0.50"	1333	1/15	120/1/60	11"	12"	14"	26	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-4	GREENHECK CSP-A390-VG	INLINE	MECH ROOM	2.0	150	0.50"	1338	1/15	120/1/60	11"	12"	14"	26	NOTE: 5	NOTE: 8	NOTE: 7	NOTE: 1,3
EF-5	GREENHECK SP-A390-VG	CEILING	ALL SEASON RR	4.5	100	0.50"	1327	1/15	120/1/60	11"	12"	14"	26	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-6	GREENHECK SP-A510-VG	CEILING	WOMENS RR	5.0	350	0.50"	1239	1/6	120/1/60	15"	14"	18"	35	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-7	GREENHECK SP-A390-VG	CEILING	WOMENS SHOWER	4.5	100	0.50"	1327	1/15	120/1/60	11"	12"	14"	26	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-8	GREENHECK SP-A510-VG	CEILING	GUARDS/FIRST AID	5.0	350	0.50"	1239	1/6	120/1/60	15"	14"	18"	35	NONE	NOTE: 4	NOTE: 2	NOTE: 1,3
EF-9	GREENHECK CSP-A700-VG	INLINE	PUMP ROOM	1.4	425	0.50"	1218	1/3	120/1/60	12"	12"	20"	44	NOTE: 5	NOTE: 8	NOTE: 7	NOTE: 1,3
EF-10	FAN AMERICA CBI 315 JET	INLINE	CHEMICAL ROOM	4.4	400	0.37"	1140	1/4	120/1/60	21" ø		26"	92	NONE	NOTE: 9	CPVC	NOTE: 1,6
EF-11	FAN AMERICA CBI 315 JET	INLINE	CHEMICAL ROOM	4.4	400	0.37"	1140	1/4	120/1/60	21" ø		26"	92	NONE	NOTE: 9	CPVC	NOTE: 1,6
EF-12	GREENHECK CSP-A510-VG	INLINE	TEAM STORAGE	0.7	250	0.50"	1221	1/6	120/1/60	15"	18"	14"	36	NOTE: 5	NOTE: 8	NOTE: 7	NOTE: 1,3
EF-13	GREENHECK SP-A390-VG	CEILING	STORAGE	5.9	300	0.50"	1459	1/15	120/1/60	11"	12"	14"	26	NONE	NOTE: 8	NOTE: 7	NOTE: 1,3

NOTES:
1. PROVIDE WITH MANUFACTURER'S ELECTRICAL DISCONNECT.
2. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.
3. PROVIDE WITH EC MOTOR. PROVIDE MOTOR MOUNTED SPEED SWITCH FOR FAN BALANCING
4. FAN SHALL BE CONTROLLED FROM THE LIGHTING OCCUPANCY SENSOR BY DIV. 26.
5. PROVIDE SPRING VIBRATION ISOLATION.
6. ALL PLASTIC CORROSION RESISTANT CHEMICAL EXHAUST FAN
7. PROVIDE WITH MOTORIZED DAMPER.
8. FAN SHALL OPERATE DURING OCCUPIED HOURS.
9. FAN SHALL OPERATE CONTINUOUSLY, 24/7/365.

ELECTRIC WALL HEATER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	LOCATION	CAP. (MBH)	ELECTRICAL				CFM	MOUNTING TYPE	DIMENSIONS				CONTROL	REMARKS
				VOLTS	Ø	KW	AMPS			H	L	W	WT		
EWH-1	TRANE UHAA-02	SHOWER	6.8	120	1	2.0	16.7	175	VERTICAL	21"	4"	16"	22	NOTE: 1	NOTE: 2,3

NOTES:
1. PROVIDE WITH INTEGRAL THERMOSTAT.
2. RECESSED ELECTRIC WALL HEATER
3. PROVIDE WITH INTEGRAL DISCONNECT AND WHITE FINISH.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	FACE SIZE	NECK SIZE	SLOT WIDTH/ NO. OF SLOTS	M.V.D.	MOUNTING	FINISH	MATERIAL	REMARKS
CD-1	TITUS TMS	SUPPLY	12"x12"	AS NOTED	-	NO	SURFACE	WHITE	ALUMINUM	NOTE: 1
RG-1	TITUS 350RL	RETURN	NECK+1.75"	AS NOTED	-	NO	SURFACE	WHITE	ALUMINUM	NOTE: 1
TG-1	TITUS 350FL	TRANSFER	NECK+1.75"	AS NOTED	-	NO	SURFACE	WHITE	ALUMINUM	NOTE: 1

NOTES:
1. TRIM KIT FOR HARD LID CEILING WHERE REQUIRED.

UNIT HEATER SCHEDULE (ELECTRIC)

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	CAP. (MBH)	ELEMENT			CFM	FLA (A)	MOP (A)	MOTOR				CONTROL	REMARKS
				KW	V	Φ				HP	V	Φ	RPM		
EUH-1	TRANE UHEC 03	PUMP ROOM	11.3	3.3	208	3	400	15.9	20.0	1/125	208	3	1,550	NOTE:1	NOTE:2,3

NOTES:
1. INTEGRAL THERMOSTAT PROVIDED BY UNIT HEATER MANUFACTURER.
2. FLA (FULL LOAD AMPS) INCLUDES HEATING ELEMENT AND MOTOR CURRENT REQUIREMENTS.
3. PROVIDE WITH MANUFACTURER'S WALL MOUNTING BRACKET.

LOUVER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	FREE AREA (SQ. FT.)	CFM	VEL. (FPM)	A.P.D. (IN. W.C.)	MOUNTING TYPE	MATERIALS	SIZE (INCHES)			REMARKS
									W	H	D	
LVR-1	RUSKIN ELT375X-E	PUMP ROOM EXHAUST	1.3	425	319	0.02	STANDARD	NOTE: 1	24"	16"	4"	NOTES: 2,3
LVR-2	RUSKIN ELT375X-E	PUMP ROOM INTAKE	1.3	425	319	0.02	STANDARD	NOTE: 1	24"	16"	4"	NOTES: 2,3
LVR-3	RUSKIN ELT375X-E	TEAM STORAGE EXHAUST	0.9	250	281	0.02	STANDARD	NOTE: 1	16"	16"	4"	NOTES: 2,3
LVR-4	RUSKIN ELT375X-E	STORAGE EXHAUST	0.9	300	338	0.02	STANDARD	NOTE: 1	16"	16"	4"	NOTES: 2,3

NOTES:
1. EXTRUDED ALUMINUM.
2. PROVIDE LOUVER WITH 1/2" BIRD SCREEN.
3. PROVIDE LOUVER WITH 70% PVDF FINISH. COLOR SHALL BE SELECTED BY ARCHITECT.

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
The Ballard Group, Inc.
Mechanical Consulting Engineers
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PETER W. FRANCIS
0048239
01-09-2026
PROFESSIONAL ENGINEER

Sheet title:
HVAC SCHEDULES

M600

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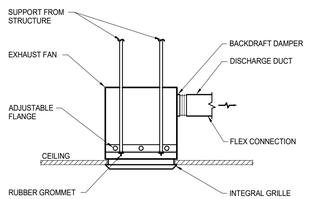
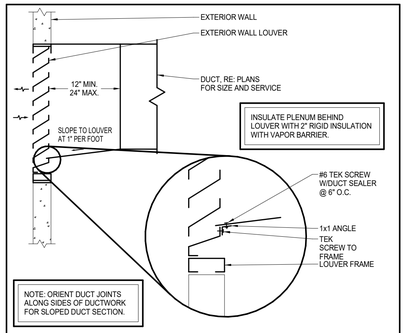


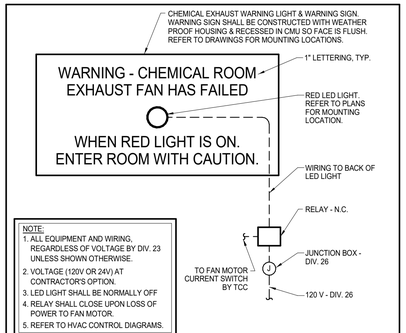
4 M700 **EXHAUST FAN - CEILING**

SCALE: NONE



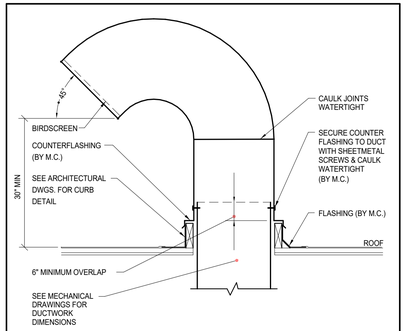
3 M700 **EXTERIOR WALL LOUVER DETAIL**

SCALE: NONE



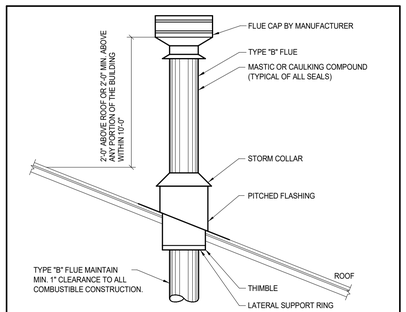
2 M700 **CHEMICAL EXHAUST FAN WARNING SIGNAL DETAIL**

SCALE: 1/8" = 1' - 0"



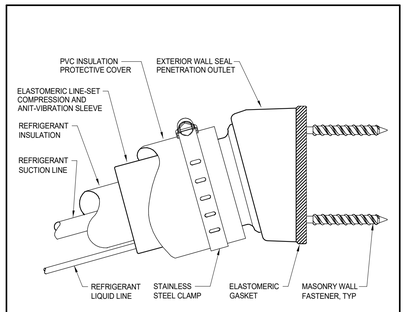
1 M700 **GOOSENECK DETAIL**

SCALE: NONE



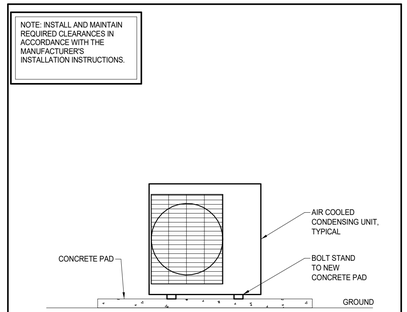
7 M700 **FLUE THRU SLOPED ROOF DETAIL**

SCALE: NONE



6 M700 **REFRIGERANT PIPE PENETRATION DETAIL**

SCALE: NONE



5 M700 **SPLIT CONDENSING UNIT DETAIL**

SCALE: NONE

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(303) 988-4514

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HVAC DETAILS

M700

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GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
	E	PIPE CAP
		GAUGE
		PRESSURE GAUGE WITH COCK
		PIPE UNION
		STRAINER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

PLUMBING LEGEND

ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
EWC		ELECTRIC WATER COOLER
DF		DRINKING FOUNTAIN
GDU		GARBAGE DISPOSAL UNIT
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP/TS		TRAP PRIMER/TRAP SEAL
PP		PLUMBING CIRC. PUMP
SP		SUMP PUMP
SE		SEWAGE EJECTOR
PET		PLUMBING EXPANSION TANK
GWH		GAS WATER HEATER
EWH		ELECTRIC WATER HEATER
ST		STORAGE TANK
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
GPM		GALLON PER MINUTE
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
CW	(NP)	COLD WATER NON POTABLE
G	G	NATURAL GAS
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
GW	GW	GREASE WASTE
V		SANITARY VENT
RDL	RDL	ROOF DRAIN ABOVE FLOOR OR GRADE
ODL	ODL	OVERFLOW DRAIN LEADER ABOVE FLOOR OR GRADE
SD		STORM DRAIN BELOW FLOOR OR GRADE
CD	CD	CONDENSATE DRAIN PIPING
LS	LS	LAWN SPRINKLER
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO	OR	WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
TMV		THERMOSTATIC MIXING VALVE
		PIPE GUIDE
		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
HB/WH	OR	HOSE BIBB/WALL HYDRANT
VTR		VENT THRU ROOF
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
TD		TRENCH DRAIN
RD/OD		ROOF DRAIN/OVERFLOW DRAIN
DSN		DOWNSPOUT NOZZLE
		SPLASH BLOCK
		SPLASH BLOCK WITH DOWNSPOUT NOZZLE

SHEET INDEX

SHEET NUMBER	PLUMBING SHEET TITLE	SHEET SCALE
P000	PLUMBING COVER SHEET	NONE
P021	PLUMBING DEMOLITION PLAN	1/4" = 1'-0"
P090	OVERALL PLUMBING PLAN	3/32" = 1'-0"
P100a	FOUNDATION PLUMBING PLAN - BATHHOUSE	1/4" = 1'-0"
P101a	FIRST FLOOR PLUMBING PLAN - BATHHOUSE	1/4" = 1'-0"
P101c	FIRST FLOOR PLUMBING PLAN - AUX. MECH BUILDING	1/4" = 1'-0"
P600	PLUMBING SCHEDULES	NONE
P700	PLUMBING DETAILS	NONE
P701	PLUMBING DETAILS	NONE

PLUMBING DEMOLITION GENERAL NOTES

1. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
2. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
3. EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
4. ALL PLUMBING ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE PLUMBING CONTRACTOR.
5. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
6. THE REMOVAL OR INSTALLATION OF FIXTURES, PIPES AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE PLUMBING CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE CONTRACTOR SHALL REVIEW THE PLUMBING DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
7. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED PLUMBING TO MATCH EXISTING CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.

PLUMBING GENERAL NOTES

1. FIELD VERIFY EXACT LOCATION OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
2. ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
3. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
4. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
5. PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
6. REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
7. ALL STORM DRAINAGE PIPING WITHIN THE BOUNDARIES OF THE BUILDING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
8. ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
9. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
10. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
11. PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
12. PROTECT ALL EXISTING EQUIPMENT INDICATED AS REMAINING IN PLACE OR BEING RELOCATED. REPLACE DAMAGED EQUIPMENT IMMEDIATELY WITH EXACT DUPLICATE AT NO ADDITIONAL COST TO THE OWNER.
13. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND PROTECTING ALL EXISTING PIPING AND UTILITIES FOR THE DURATION OF THE WORK. ANY DAMAGE CAUSED TO EXISTING PIPING OR UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
14. PROVIDE SURESEAL TRAP SEALS ON ALL FLOOR DRAINS PER CODE WHERE EVAPORATION OR LOSS OF TRAP SEAL WILL OCCUR.
15. SEAL ALL PENETRATION/OPENINGS (ESCUTCHEONS, CLEANOUT COVER ETC.) INTO WALL IN NATATORIUM, POOL EQUIPMENT, LOCKER ROOM AND ALL AREA ASSOCIATED WITH POOL ENVIRONMENTS.
16. CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.

WINTERIZATION GENERAL NOTES

1. CONTRACTOR TO PROVIDE OWNER WINTERIZATION PLAN AND DRAWINGS WITH STEP BY STEP PROCEDURE AT END OF THE PROJECT.
2. PROVIDE PROCEDURE LAMINATED AND LOCATED IN MECHANICAL/POOL EQUIPMENT ROOM. ALSO PROVIDE IN OPERATION AND MAINTENANCE MANUAL.
3. THE BATHHOUSE AND POOL EQUIPMENT ROOM SHALL BE WINTERIZED.
4. THE RESTROOM NEAREST THE TENNIS COURTS IS INTENDED TO REMAIN IN OPERATION. THIS RESTROOM AND THE WATER ENTRY ROOM SHALL BE HEATED YEAR ROUND.
5. THE FOLLOWING IS A LIST OF ITEMS TO BE INCLUDED IN THIS PLAN, BUT NOT LIMITED TO:
   - A. ALL WATER PIPING IN BATHHOUSE SHALL SLOPE TO BATHHOUSE MECHANICAL ROOM FOR EASE OF WINTERIZATION.
   - B. SLOPE PIPING SO AS NOT TO CREATE LOW SPOTS, IF LOW SPOTS ARE CREATED PROVIDE DRAIN VALVE AND LOCATE ON DRAWINGS. NO EXPOSED, ACCESSIBLE VALVES OPEN TO THE PUBLIC.
   - C. STRATEGIC PLACEMENT OF HOSE BIBBS AND WALL HYDRANTS FOR BOTH CW & HW WILL FACILITATE WINTERIZATION.
   - D. PROVIDE DRAIN DOWN POINTS AT CONVENIENT LOCATIONS WITH BALL VALVE AND HOSE CONNECTION.
   - E. LOCATE DRAIN DOWN PATH AND ALL VALVES ON PLAN FOR MAINTENANCE PERSONNEL.
   - F. NOTE TO REMOVE ALL EQUIPMENT, VALVES ETC., THAT COULD HAVE REMAINING WATER THAT COULD FREEZE. SUCH AS WATER HEATER CONTROL TUBING, TMV, FLUSH VALVES, FAUCET, DRINKING FOUNTAIN TUBING/FILTERS, PUMPS AND FILTERS, ETC.
   - G. INDICATE P-TRAPS SHOULD BE REMOVED OR POTABLE (RV) ANTIFREEZE SHOULD BE DUMPED IN FIXTURES. FIXTURES WITH INTEGRAL TRAPS SHOULD HAVE POTABLE (RV) ANTIFREEZE DUMPED IN.
   - H. ALL PIPING SHOULD BE BLOWN OUT WITH COMPRESSED AIR AND LOCATE THOSE CONNECTION POINTS AND DRAIN LOCATION. BLOWDOWN LOCATION SHALL BE IN BATHHOUSE STORAGE ROOM.
   - I. INDICATE ALL FAUCETS SHOULD BE LEFT OPEN.

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Sheet title:

PLUMBING COVER SHEET

P000

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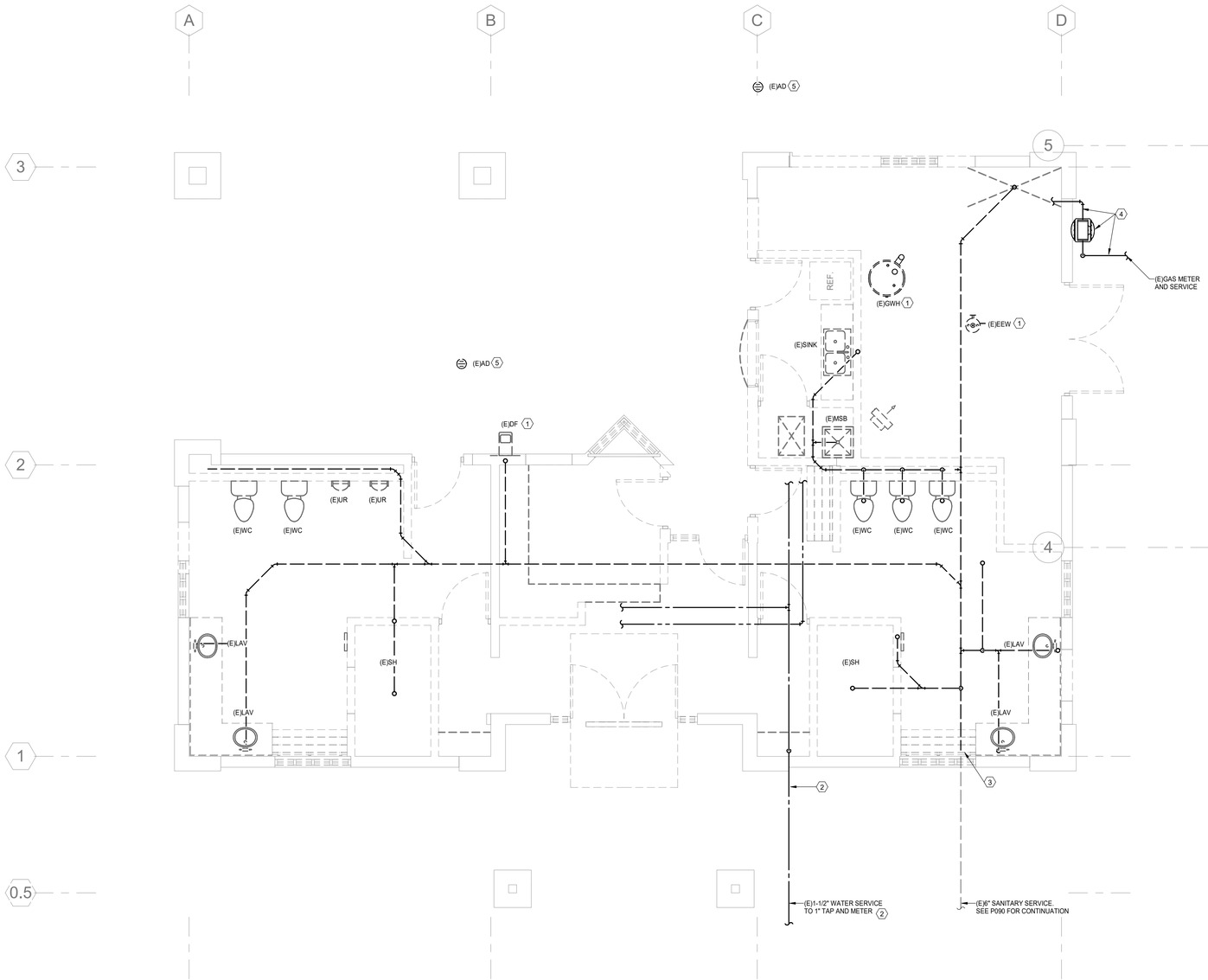
PLUMBING DEMOLITION KEYNOTES:

GENERAL NOTE: CONTRACTOR TO REMOVE ALL WATER, WASTE, VENT, AND GAS PIPING IN EXISTING BUILDING FOR A COMPLETE REPIPE AND REPLACEMENT. THIS DRAWING SHOWS APPROXIMATE LOCATION OF PIPING, FIXTURES, AND EQUIPMENT TO BE REMOVED.

1. REMOVE EXISTING EQUIPMENT AND ALL ASSOCIATED PIPING.
2. REMOVE EXISTING WATER SERVICE INTO BUILDING AND ALL ASSOCIATED DOWNSTREAM PIPING.
3. REMOVE EXISTING SANITARY/WASTE PIPING UPSTREAM OF THIS LOCATION. CAP FOR NEW CONNECTIONS.
4. REMOVE EXISTING GAS METER AND SERVICE. REMOVE ALL DOWNSTREAM PIPING.
5. REMOVE EXISTING AD.



PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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PLUMBING DEMOLITION PLAN

P021

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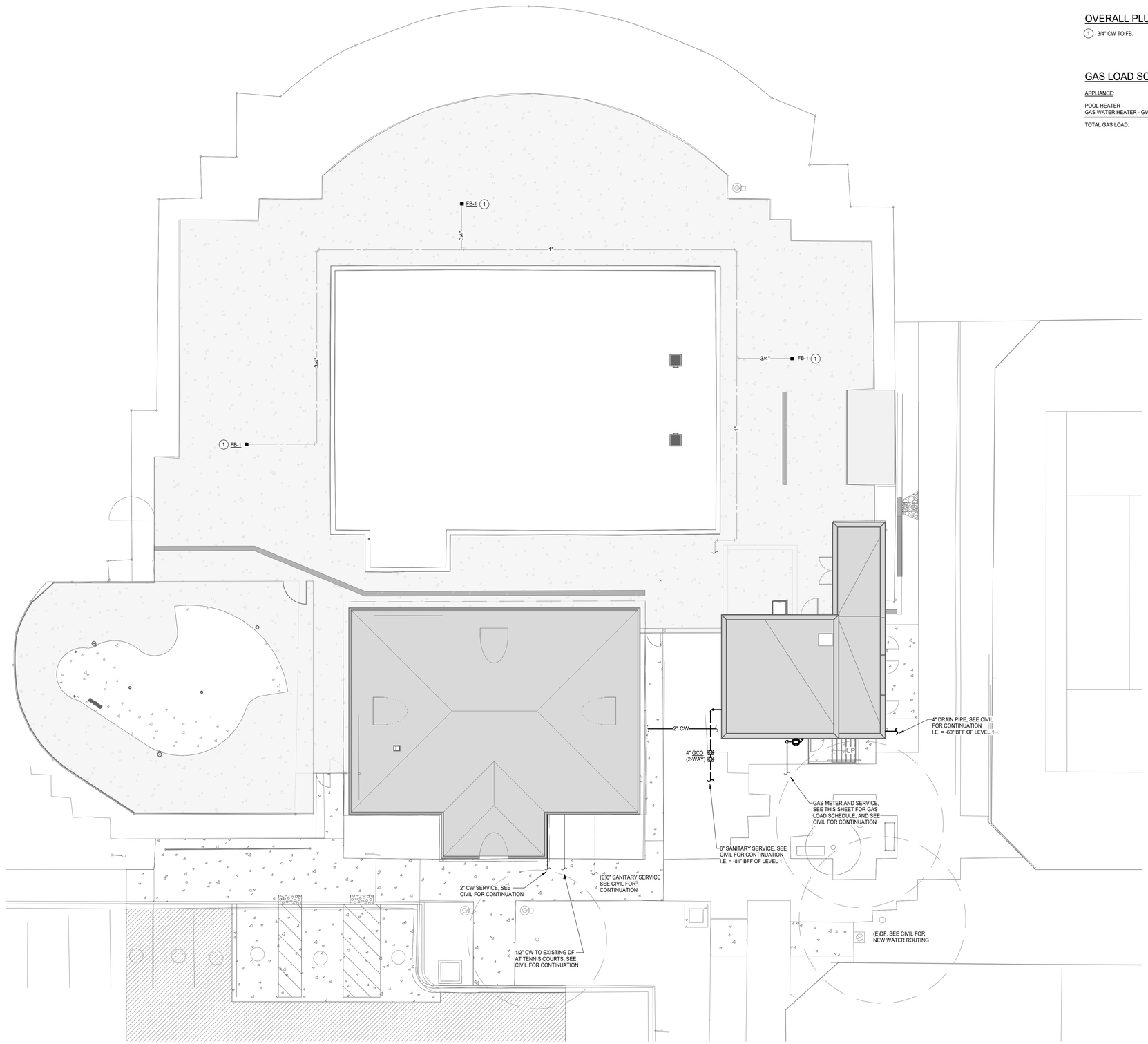
OVERALL PLUMBING KEYNOTES:

(1) 3/4" CW TO FB.

GAS LOAD SCHEDULE:

APPLIANCE:	LOAD:
POOL HEATER	2,000 MBH
GAS WATER HEATER - GWH-1	399 MBH
TOTAL GAS LOAD:	2,399 MBH INPUT REQUIRED AT S.L. UTILIZING A 2 PSI SYSTEM. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY



OVERALL PLUMBING PLAN

SCALE: 3/32" = 1'-0"

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OVERALL PLUMBING PLAN

P090

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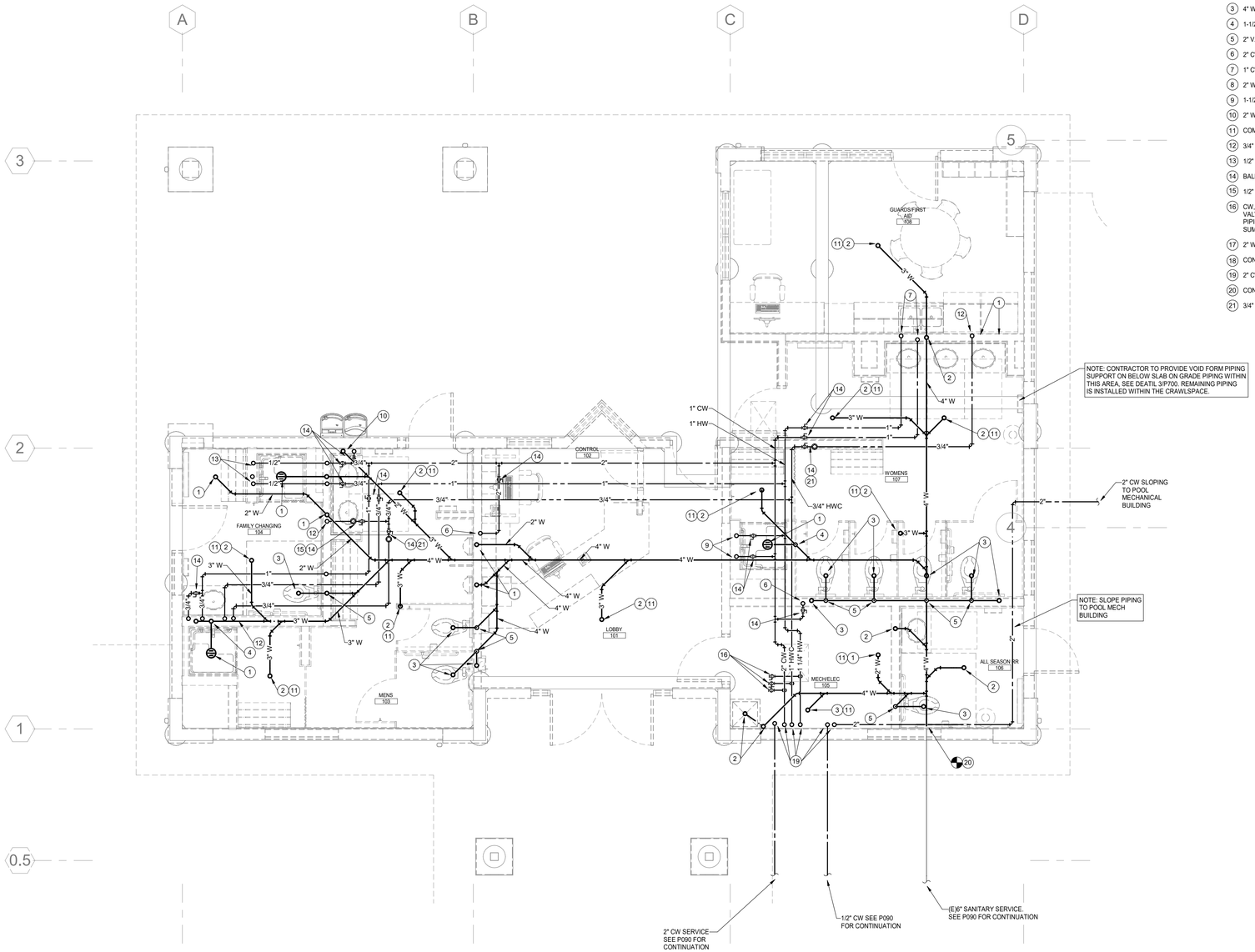
FOUNDATION PLUMBING KEYNOTES:

1. 2" W. RISE TO FLOOR ABOVE.
2. 3" W. RISE TO FLOOR ABOVE.
3. 4" W. RISE TO FLOOR ABOVE.
4. 1-1/2" V. RISE TO FLOOR ABOVE.
5. 2" V. RISE TO FLOOR ABOVE.
6. 2" CW RISE TO FLOOR ABOVE.
7. 1" CW & 1" HW RISE TO FLOOR ABOVE.
8. 2" W. 1/2" CW 3/4" HW & 3/4" HWC RISE TO FLOOR ABOVE.
9. 1-1/2" V., 1/2" CW & 1/2" HW RISE TO FLOOR ABOVE.
10. 2" W. & 1/2" CW RISE TO FLOOR ABOVE.
11. COMBINATION WASTE AND VENT SYSTEM.
12. 3/4" HWC RISE TO FLOOR ABOVE.
13. 1/2" CW & 1/2" HW RISE TO FLOOR ABOVE.
14. BALL VALVE, FULL SIZED.
15. 1/2" BALANCING VALVE, BALANCE TO 0.5 GPM.
16. CW, HW, & HWC PIPING TO SLOPE BACK TO THIS POINT. FULL SIZED DRAIN DOWN VALVES TO SUPPORT WINTERIZATION OF THE BATHHOUSE. OWNER TO DRAIN PIPING INTO A BUCKET AND PUMP TO THE MSB ABOVE USING A SELF SUPPLIED SUMP PUMP.
17. 2" W., 3/4" CW & 3/4" HW RISE TO FLOOR ABOVE.
18. CONNECT 3/4" HWC TO HW PIPING AS SHOWN.
19. 2" CW, 1/2" CW, 1-1/4" HW, & 1" HWC RISE TO FLOOR ABOVE.
20. CONNECT 6" W. TO (E)PIPING AS SHOWN.
21. 3/4" BALANCING VALVE, BALANCE TO 1.0 GPM.



FOUNDATION PLUMBING PLAN - BATHHOUSE

SCALE: 1/4" = 1'-0"

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FOUNDATION PLUMBING PLAN - BATHHOUSE

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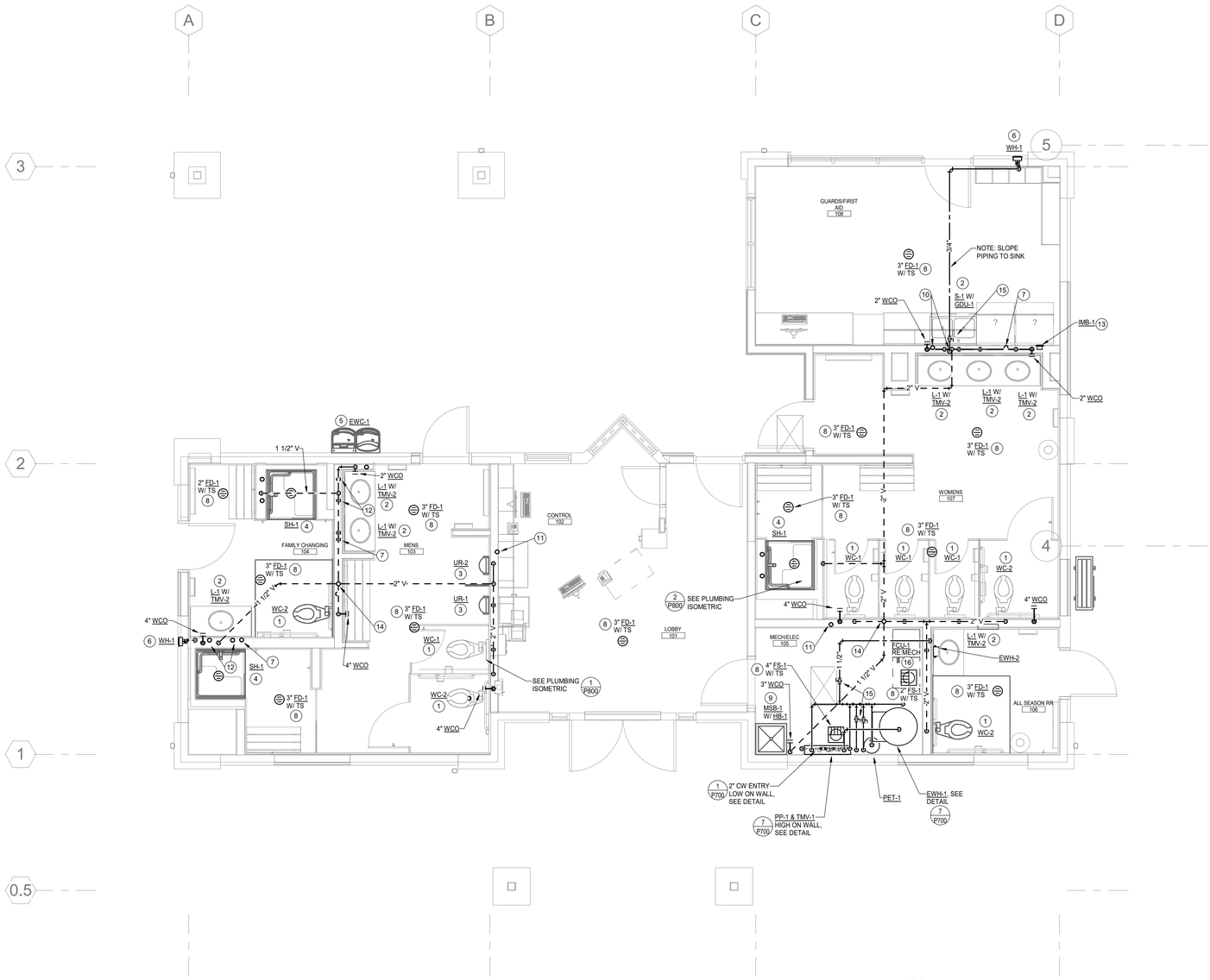

FIRST FLOOR PLUMBING PLAN - BATHHOUSE

SCALE: 1/4" = 1'-0"

BATHHOUSE PLUMBING KEYNOTES:

1. 4" W. DOWN, 2" V. RISE, 1" CW TO WC.
2. 2" W. DOWN, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAV.
3. 2" W. DOWN, 1-1/2" V. RISE, 3/4" CW TO UR.
4. 2" W. DOWN, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO SHOWER.
5. 2" W. DOWN 1-1/2" V. RISE, 1/2" CW TO EWC.
6. 3/4" CW TO WH.
7. 3/4" HWC RISE FROM BELOW, CONNECT TO HW WITHIN 2' OF FIXTURE STOP.
8. COMBINATION WASTE AND VENT SYSTEM.
9. 3" W. DOWN, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MSB. 3/4" CW TO HB @ 60" ABOVE BASIN.
10. 1" CW & 1" HW RISE FROM BELOW & OFFSET TO FIXTURES.
11. 2' CW RISE FROM BELOW & OFFSET TO FIXTURES.
12. 3/4" CW & 3/4" HW RISE FROM BELOW & OFFSET TO FIXTURES.
13. 1/2" CW TO IMB.
14. 2" V. RISE TO 3" VTR.
15. BALL VALVE, FULL SIZED.
16. CONNECT 3/4" CD PIPING TO FCU & AIRGAP TO FS.

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FIRST FLOOR PLUMBING PLAN - BATHHOUSE

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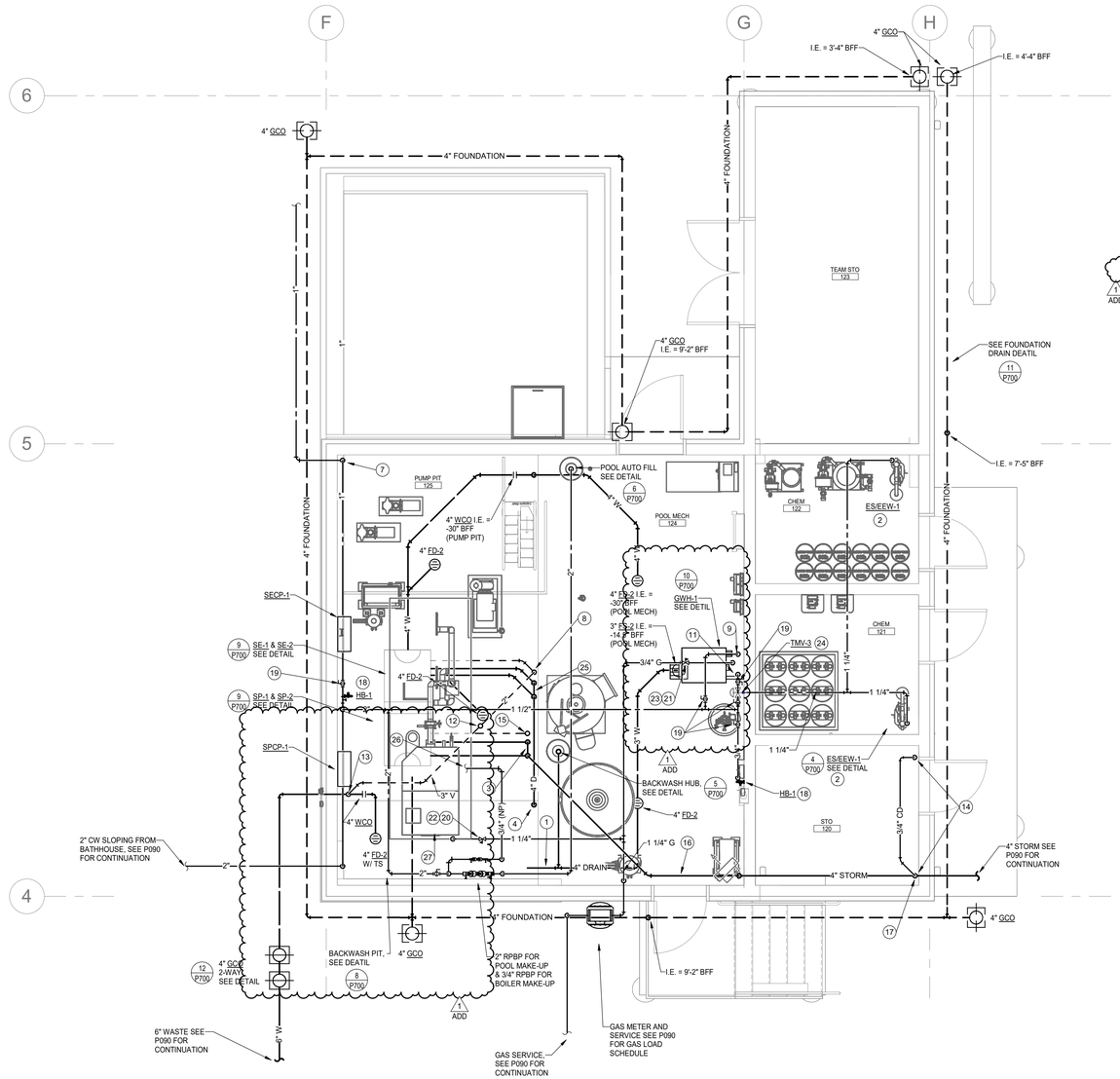

FIRST FLOOR PLUMBING PLAN - AUX. MECHANICAL BUILDING

SCALE: 1/4" = 1'-0"

MECH BUILDING PLUMBING KEYNOTES:

1. 8" W. DISCHARGE INTO BACKWASH HOLDING TANK.
2. 1-1/4" TEPID HW TO ES/EEW. ANY PIPING WITHIN CHEMICAL ROOMS SHALL BE SCH. 40 CPVC WITH SOLVENT WELDED FITTINGS FOR CORROSION RESISTANCE.
3. (2)2" PUMP DISCHARGES RISE, COMBINE @ 18" AFF. RISE WITH 3" & OFFSET @ STRUCTURE.
4. 4" W. DOWN AND DISCHARGE TO BACKWASHING HOLDING TANK.
5. 2" CW DOWN TO AUTOFILL. SEE DEATIL 6/P700
6. 1/2" CW DOWN TO AUTOFILL.
7. 1" CW DOWN BELOW GRADE AND OFFSET TO FLOOR BOXES ON DECK.
8. 2" V. RISE & OFFSET AT STRUCTURE.
9. 1-1/4" CW DOWN TO GWH-1.
10. 1-1/4" TEPID HW FROM EWH-2 TO EWH-3.
11. 1-1/4" TEPID HW RISE & OFFSET TO ES/EEW.
12. 3" V. RISE TO 3" VTR.
13. 4" W. DOWN, 3" V. RISE FOR FD.
14. (ADD) CONNECT 3/4" CD PIPING TO FCU, RISE & OFFSET AS HIGH AS POSSIBLE & DROP VERTICALLY INTO STORM PIPING AS SHOWN.
15. 2" V. RISE TO 3" VTR.
16. UPSIZE TO 4" AND SLOPE @ 1.04% FOR GRAVITY FLOW.
17. 4" DRAIN DOWN & CONNECT TO STORM DRAIN.
18. 3/4" CW TO HB.
19. BALL VALVE, FULL SIZED.
20. CONNECT 2-1/2" GAS TO UNIT WITH ACCESSIBLE GAS COCK AND 6" DIRT LEG.
21. CONNECT 1-1/2" GS TO UNIT WITH ACCESIBLE GAS COCK AND 6" DIRT LEG.
22. GAS PRV. VENTLESS. 2,000 MBH INPUT AT S.L. 2 PSI. TO 10" WC OUTLET.
23. GAS PRV. VENTLESS. 399 MBH INPUT AT S.L. 2 PSI. TO 10" WC OUTLET.
24. 1-1/4" CW & 1-1/4" HW TO TMV-3, 1-1/4" TEPID HW TO FIXTURES.
25. (2)2" PUMP DISCHARGES RISE, COMBINE @ 18" AFF. RISE WITH 3" & OFFSET BELOW GRATING AS HIGH AS POSSIBLE.
26. CONNECT 3/4" CW TO BOILER FOR MAKE-UP. COORDINATE LOCATION IN FIELD.
27. ROUTE BOILER CONDESATE TO BACKWASH HOLDING TANK.

NOTE: CONTRACTOR TO PROVIDE VOID FOR PIPING SUPPORT ON BELOW SLAB PIPING WITHIN THIS POOL MECH BUILDING. SEE DETAIL 3/P700.

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

North Pool Renovation

1650 S INDIANA ST, SUPERIOR, CO 80027

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FIRST FLOOR PLUMBING PLAN - AUX. MECH BUILDING

P101c

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MISCELLANEOUS PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-12C	STEEL	NOTE: 1
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY	S59-2025	ROUGH BRASS	NOTE: 2
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY	S59-4000	ROUGH BRASS	NOTE: 3
TMV-3	THERMOSTATIC MIXING VALVE	BRADLEY	S19-2100	ROUGH BRASS	NOTE: 4

NOTES:
1. ASME CONSTRUCTION.
2. ASSE 1017, SET TO 120 ° F.
3. ASSE 1070, SET TO 110 ° F.
4. ASSE 1071, SET TO 80° F.

WATER HEATER SCHEDULE (GAS-FIRED)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 80' RISE	BTUH INPUT @ SEA LEVEL	EFF. FACTOR	FLUE SIZE	TANK SIZE		OPER. WEIGHT	REMARKS
							DIA.	HT.		
GWH-1	LOCHINVAR AWH0400NPM	-	479	399,999	0.99	SEE HVAC	24" X 30-1/4"	45"	326 LBS	NOTES: 1,2

NOTES:
1. SET TO 120 ° F.
2. 120/60/1, 1/2 HP

1 ADD

PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET (FLOOR MOUNTED) - 1.28 GPF - BATTERY	AMERICAN STANDARD	2234.001	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTES: 8,11
WC-2	WATER CLOSET (ACCESSIBLE) (FLOOR MOUNTED) - 1.28 GPF - BATTERY	AMERICAN STANDARD	3461.001	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTES: 9,10,11
UR-1	URINAL (0.125 GPF) (WALL HUNG) - MANUAL	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	186-0.125	CHROME	NOTES: 5,12
UR-2	URINAL (0.125 GPF) (WALL HUNG) - MANUAL	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	186-0.125	CHROME	NOTES: 5,9
L-1	LAVATORY (ACCESSIBLE) (UNDERCOUNTER) - 0.5 GPM - BATTERY	AMERICAN STANDARD	0495.221	WHITE	FAUCET	CHICAGO	EAF-250	CHROME	NOTES: 1,3
S-1	SINK (ACCESSIBLE) (UNDERMOUNT) - DOUBLE COMP - 1.5 GPM	ELKAY	ELUHAD3618	STAINLESS STEEL	FAUCET	CHICAGO	434-ABCP	CHROME	NOTES: 1,2
MSB-1	MOP SERVICE BASIN	FIAT	MSB2424	WHITE	FAUCET	CHICAGO	445-RC897SXKCP	CHROME	NOTES: 6
EWC-1	ELECTRIC WATER COOLER	ELKAY	EZSTL8WSVRSK	STAINLESS STEEL	-	-	-	-	NOTES: 1,4,5
SH-1	SHOWER (ACCESSIBLE) (1.5 GPM) (1) FIXED AND (1) HANDHELD HEAD	BY G.C.	-	-	VALVE HEAD	BRADLEY MOEN	HN300-HD-SF-ST-A24-NS-AP-BP 52716EP15	CHROME	NOTES: 7
GDU-1	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	BADGER 5	-	-	-	-	-	1/2 H.P. 120/60/1
ES/EEW-1	EMERGENCY SHOWER/EYEWASH	HAWS	8336-PVC	PVC	-	-	-	-	-

NOTES:
1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH L.K. STOPS.
2. GRID STRAINER, 1.5 GPM, INSULATION KIT.
3. GRID STRAINER, 0.5 GPM, INSLATION KIT.
4. 1/5 H.P., 120/60/1.
5. W/ CARRIER.
6. VACUUM BREAKER, CHECK STOPS WITH HB-1.
7. COORDINATE HEAD HEIGHTS WITH ARCH.
8. MOUNT AT 15" AFF.
9. MOUNT AT 17" AFF.
10. HANDLE ON ACCESS SIDE OF TOILET.
11. BATTERY OPERATED FLUSH VALVE.
12. MOUNT @ 24" AFF.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE		VENT	COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	(MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	-	
UR	URINAL	INT.	2"	1-1/2"	3/4"	3/4"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
S	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
EWC/DF	ELEC. WATER COOLER/DRINKING FOUNT.	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WH/HB	WALL HYDRANT	-	-	-	3/4"	3/4"	-	-	
ES/EEW	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	-	1-1/4"	-	TEPID WATER
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"	

WATER HEATER SCHEDULE (ELECTRIC)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 100' RISE	KW/ INPUT	ELECTRICAL			NO. ELEM.	KW/ ELEM.	TANK SIZE		OPER. WEIGHT	REMARKS
					VOLTS	CYCLE	PHASE			DIA	D		
EWH-1	A.O. SMITH DVE-120-12	119	49	12.0	208	1	3	3	4	29-1/2"	62-1/4"	1,390 LBS	NOTE: 1,2
EWH-2	EEMAX PRO08240	-	-	5.8	208	1	1	1	5.8	11.5" X 6"	3.75"	4.75 LBS	NOTE: 3

1 ADD

NOTES:
1. SET TO 140 ° F.
2. PROVIDE WITH PET.
3. SET TO 120°F.

PLUMBING PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								LOAD	VOLTS	PH	RPM				
PP-1	GRUNDFOS MAGNA3 32-60	IN-LINE	HWC	-	2.0	10.4	-	1.61 A	115	1	-	INTEGRAL	DDC	12	NOTE: 1
SE-1&2	ZOELLER J4282	SUBMERSIBLE	POOL PIT	-	50 EA	15.0	-	1/2 HP	200	1	-	INTEGRAL	SECP-1	96 LBS	NOTE: 2
SP-1&2	ZOELLER J4292	SUBMERSIBLE	FOUND. DRAIN	-	50 EA	28.0	-	1/2 HP	200	1	-	INTEGRAL	SPCP-1	96 LBS	NOTE: 2

NOTES:
1. DDC, OCCUPIED/UNOCCUPIED.
2. DUPLEX CONTROL PANEL, ALTERNATOR, HW ALARM, FLOATS, POWER WIRING TO PANEL BY EC, CONTROL WIRING BY PC. (3) CONTROL CIRCUITS, (1) EA FOR PUMPS AND (1) FOR PANEL.

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
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PLUMBING SCHEDULES

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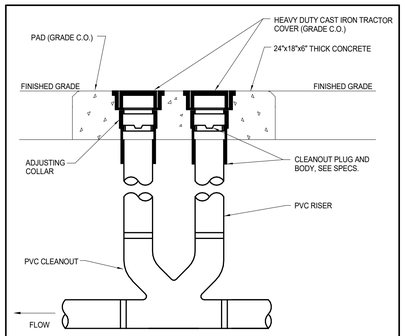

12 P700 **GRADE CLEANOUT (2-WAY)**
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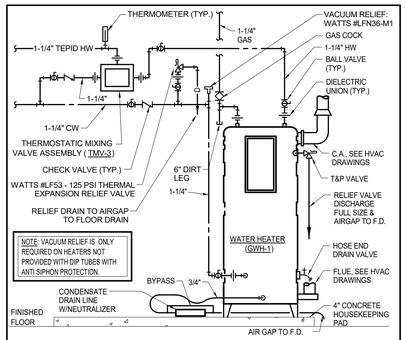

10 P700 **GAS FIRED WATER HEATER DETAIL**
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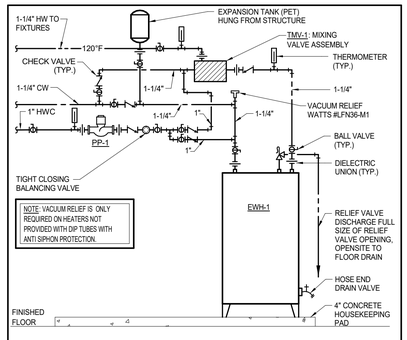

7 P700 **ELECTRIC WATER HEATER DETAIL**
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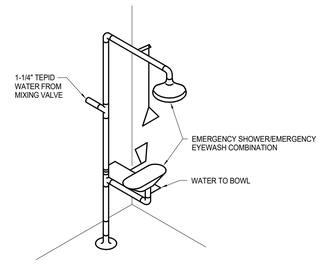

4 P700 **EMERGENCY SHOWER/EMERGENCY EYEWASH DETAIL**
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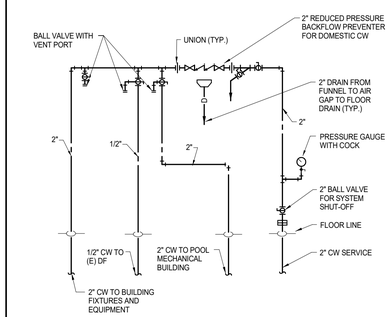

1 P700 **DOMESTIC CW ENTRY PIPING DETAIL**
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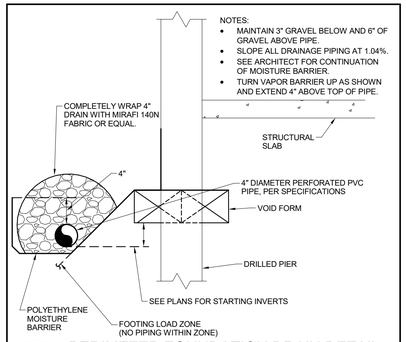

11 P700 **PERIMETER FOUNDATION DRAIN DETAIL**
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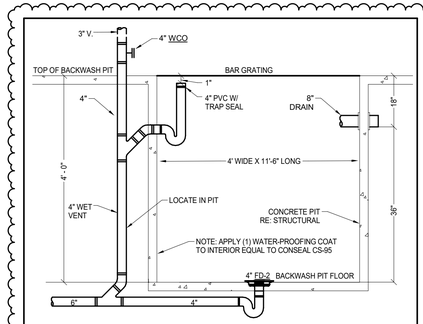

8 P700 **BACKWASH PIT DRAIN DETAIL**
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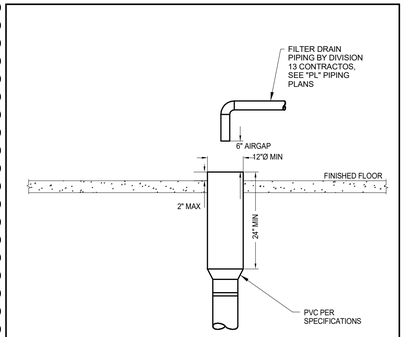

5 P700 **POOL BACKWASH STANDPIPE DETAIL**
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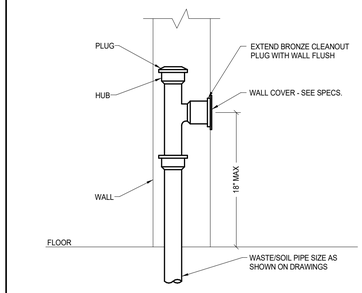

2 P700 **WALL CLEANOUT DETAIL**
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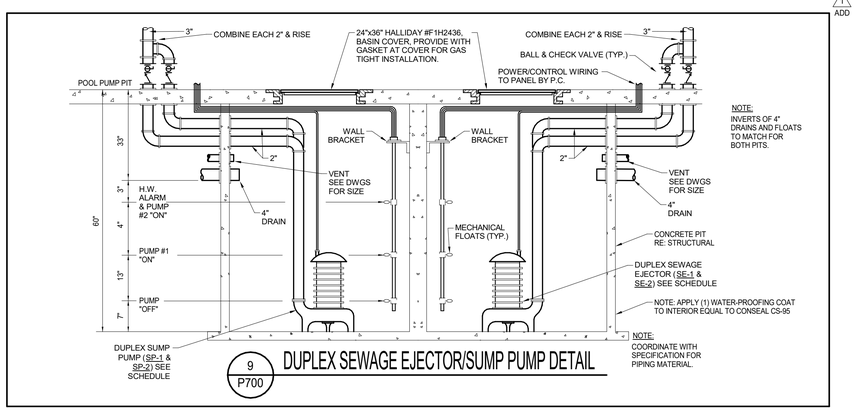
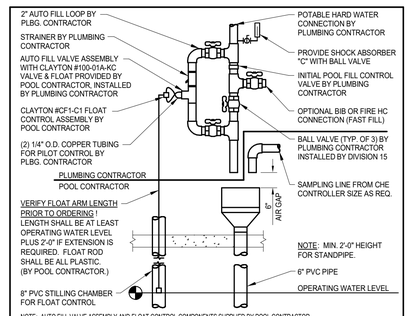


9 P700 **DUPLEX SEWAGE EJECTOR/SUMP PUMP DETAIL**



6 P700 **POOL AUTO FILL DETAIL**
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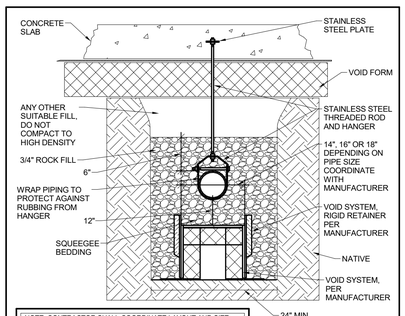

3 P700 **EXPANSIVE SOIL PIPING SUPPORT INSTALLATION DETAIL**
SCALE: NONE
APPROVED MANUFACTURERS: SUPERVOID-UPS.

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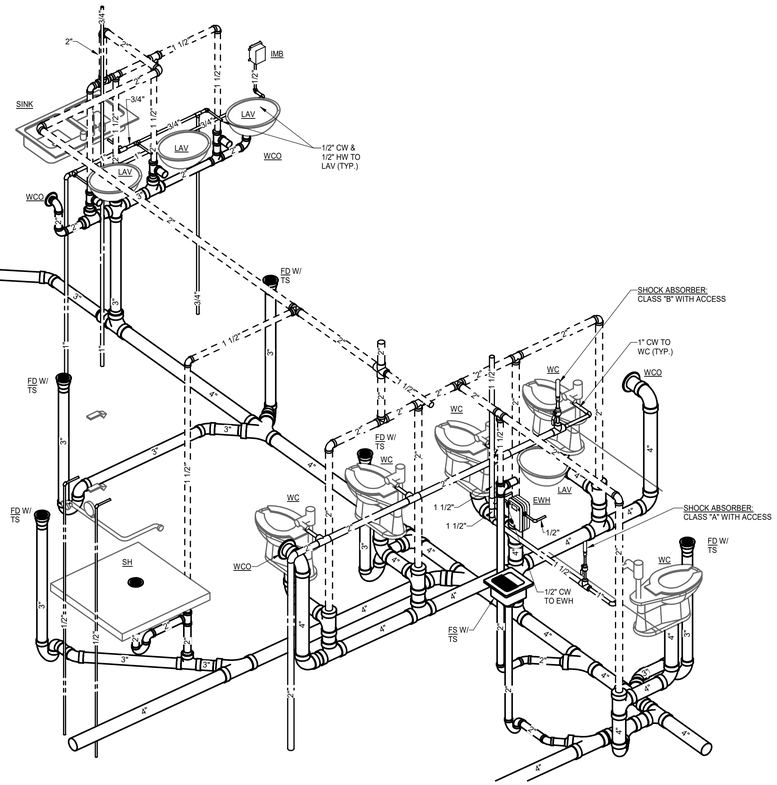

2 P800 PLUMBING ISOMETRIC

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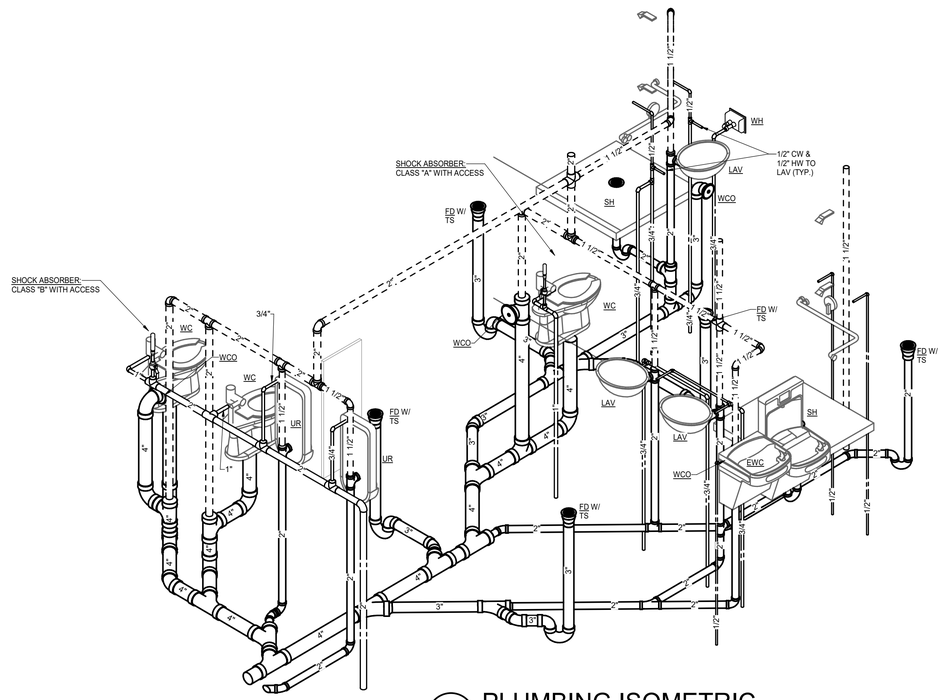

1 P800 PLUMBING ISOMETRIC

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PLUMBING ISOMETRICS

P800

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ELECTRICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS

A	AMPERE(S)
AC	ABOVE COUNTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AIC	AMPERES INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DISC	DISCONNECT
DIST	DISTRIBUTION
(E)	EXISTING, TO REMAIN - MAINTAIN CIRCUIT CONTINUITY TO EXISTING DEVICES. FOR LUMINAIRES IN AREA OF WORK, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMP'S COLOR TEMPERATURE. FOR WIRING DEVICES IN AREA OF WORK, CLEAN FACEPLATES, UNLESS OTHERWISE NOTED.
EC	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT
EF	EXHAUST FAN
(ER)	EXISTING TO RELOCATE - MAINTAIN CIRCUIT CONTINUITY TO DEVICES. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION.
EM	EMERGENCY
(EP)	EXISTING POSITION TO REMAIN, REMOVE EXISTING DEVICE FOR REPLACEMENT. REFERS TO LUMINAIRES, TELECOM DEVICES, SWITCHES, RECEPTACLES, FIRE ALARM DEVICES, ETC. UON. MAINTAIN EXISTING WIRING, OUTLET BOX, RACEWAY, ETC. FOR INSTALLATION OF NEW EQUIPMENT. TELECOM WIRE SHALL BE REMOVED.
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
(EX)	EXISTING, REMOVE - MAINTAIN CIRCUIT CONTINUITY DURING AND AFTER DEMOLITION TO EXISTING CIRCUITS AND DEVICES TO REMAIN. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION.
F	FUSE
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HORIZ	HORIZONTAL
HP	HORSEPOWER
IDF	INTERMEDIATE DATA FRAME
IG	ISOLATED GROUND
KV	KILOVOLTS
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDC	MAIN DISTRIBUTION CENTER
MDF	MAIN DATA FRAME
MLO	MAIN LUGS ONLY
MV	MEDIUM VOLTAGE
NL	NIGHT LIGHT/SECURITY LIGHT, CONNECT LIGHTS AHEAD OF LOCAL SWITCHING TO OPERATE CONTINUOUSLY
(NP)	NEW DEVICE AT EXISTING POSITION. PROVIDE NEW LUMINAIRE, TELECOM DEVICE, SWITCH, RECEPTACLE, FIRE ALARM DEVICE, ETC. IN THE SAME LOCATION (ITEM REMOVED AT DEMO). UON, REUSE EXISTING WIRING, OUTLET BOX, RACEWAY, ETC. TO THE EXTENT POSSIBLE. TELECOM WIRING SHALL BE NEW.
OAE	OR APPROVED EQUAL
OH	OVERHEAD
P	POLE
PH	PHASE
PNL	PANEL
REC	RECEPTACLE
(RL)	RELOCATED - MAINTAIN CIRCUIT CONTINUITY TO NEW LOCATION OF EXISTING DEVICE(S). REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE RELOCATION. FOR LUMINAIRES, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMP'S COLOR TEMPERATURE. FOR WIRING DEVICES, PROVIDE NEW DEVICE AND FACEPLATE UNLESS OTHERWISE NOTED.
SW	SWITCH
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TV	TELEVISION OUTLET - REFER TO DETAILS
UC	UNDERCOUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
VA	VOLT AMPERES

ABBREVIATIONS (CONTINUED)

W	WATT(S) OR WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

COMMUNICATIONS SYMBOLS

- TELECOMMUNICATIONS OUTLET
  A - (1) VOICE
  B - (1) DATA / (1) COAX / (1) VOICE
  C - (1) VOICE / (1) DATA
  D - (1) VOICE / (2) DATA
  E - (2) VOICE / (2) DATA
  W - (1) VOICE, WITH WALL MOUNT COVER
- IN-FLOOR TELECOMMUNICATIONS OUTLET (VOICE/DATA/OTHER AS DEFINED ABOVE)
- CEILING SPEAKER
- WALL MOUNTED SPEAKER
- INTERCOM STATION
- VOLUME CONTROL STATION
- MICROPHONE JACK
- AMPLIFIER
- CCTV — CLOSED-CIRCUIT TELEVISION CAMERA
- AC XX — CENTRALLY ACCESS CONTROLLED DOOR
- CR — ACCESS CONTROL SYSTEM CARD READER
- CR K — ACCESS CONTROL SYSTEM CARD READER/ KEYPAD COMBINATION DEVICE
- DC — DOOR CONTACT
- EL — ELECTRIC LOCK, ELECTRIC STRIKE OR ELECTRIC HINGE TRANSFER
- K — KEY PAD
- ML — MAGNETIC LOCK
- B — DOOR BELL CHIME
- WIRELESS ACCESS POINT. PROVIDE 3/4" CONDUIT WITH PULL WIRE BACK TO TELECOM AREA CEILING

FIRE ALARM SYSTEM SYMBOLS

- F — FIREMAN'S PHONE JACK
- BT — BEAM DETECTOR TRANSMITTER
- BR — BEAM DETECTOR RECEIVER
- REMOTE INDICATOR LIGHT (T = WITH TEST SWITCH)
- S — SMOKE DETECTOR
- SR — SMOKE DETECTOR IN RESIDENT ROOM, WITH INTEGRAL SOUNDER BASE
- SS — SINGLE STATION SMOKE DETECTOR (TANDEM-WIRED)
- WS — WALL MOUNTED SMOKE DETECTOR
- T — THERMAL DETECTOR
- SCO — SMOKE DETECTOR WITH INTEGRAL CARBON MONOXIDE DETECTION
- D — DUCT DETECTOR
- AUDIBLE/VISUAL NOTIFICATION DEVICE
- AUDIBLE NOTIFICATION DEVICE
- V — VOICE/VISUAL NOTIFICATION DEVICE
- V — VOICE NOTIFICATION DEVICE
- S — VISUAL NOTIFICATION DEVICE
- MANUAL PULL STATION
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- PS — PRESSURE SWITCH
- MH — MAGNETIC DOOR HOLDER
- FS — SMOKE DAMPER OR FIRE/SMOKE DAMPER
- FA — FIRE ALARM INTERLOCK
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- CEILING MOUNTED AUDIBLE/VISUAL NOTIFICATION DEVICE
- CEILING MOUNTED VISUAL NOTIFICATION DEVICE
- CEILING MOUNTED VOICE NOTIFICATION DEVICE
- CEILING MOUNTED VOICE/VISUAL DEVICE
- RA — RESCUE ASSISTANCE COMMUNICATION STATION

LEGEND NOTES

A. NOT ALL SYMBOLS SHOWN ON THIS LEGEND WILL NECESSARILY BE USED ON THE ELECTRICAL DRAWINGS.

B. DEVICES AND SYMBOLS ARE NOT NECESSARILY SHOWN TO SCALE.

REFERENCE SYMBOLS

- ??-? — EQUIPMENT DESIGNATION
- # — REVISION DESIGNATION
- ?? — KEY NOTE DESIGNATION
- ? / ??? — ENLARGED PLAN DESIGNATION
- NORTH ARROW

LIGHTING SYMBOLS

- CEILING LUMINAIRE - SURFACE MOUNT
- CEILING LUMINAIRE - RECESS MOUNT
- CEILING LUMINAIRE - RECESS MOUNT
- WALL MOUNT LUMINAIRE
- PENDANT MOUNT LUMINAIRE
- WALL WASH LUMINAIRE - SURFACE MOUNT
- WALL WASH LUMINAIRE - RECESS MOUNT
- TROFFER LUMINAIRE - SURFACE MOUNT
- TROFFER LUMINAIRE - RECESS MOUNT
- LINEAR PENDANT LUMINAIRE - FILLED CIRCLE INDICATES POWER FEED END (LENGTH AS SHOWN ON DRAWINGS)
- STRIP LUMINAIRE / UNDER CABINET LUMINAIRE (LENGTH AS SHOWN ON DRAWINGS)
- COVE OR SLOT LUMINAIRE (LENGTH AS SHOWN ON DRAWINGS)
- SINGLE FACE EXIT LUMINAIRE - CEILING MOUNTED
- DUAL FACE EXIT LUMINAIRE - CEILING MOUNTED
- SINGLE FACE EXIT LUMINAIRE - WALL MOUNTED
- DUAL FACE EXIT LUMINAIRE - WALL MOUNTED
- EGRESS ARROWS
- TRACK LIGHTING (NUMBER OF HEADS AS SHOWN ON DRAWING)
- EMERGENCY LUMINAIRE WITH INTEGRAL BATTERY PACK
- REMOTE EMERGENCY LIGHTING HEAD
- NIGHT-LIGHT LUMINAIRE
- NIGHT-LIGHT LUMINAIRE, THROUGH THE WALL MOUNTING
- SHADING DENOTES EMERGENCY FIXTURE, UON

LIGHTING CONTROL SYMBOLS

$_ — SWITCH, TYPE AS NOTED BELOW
(BLANK) - SINGLE POLE
2 - DOUBLE POLE
3 - THREE-WAY SWITCH
4 - FOUR-WAY SWITCH
B - PROVIDE BOX AND BLANK COVER PLATE
D - ANALOG DIMMER SWITCH - (LUTRON 'DIVA' OR 'MAESTRO' SERIES, OAE PROVIDE DIMMER TYPE COMPATIBLE WITH LAMP SOURCE PER DIMMER MANUFACTURER COMPATIBILITY TESTING AND RATED FOR CONNECTED LOAD.)
F - FAN AND/OR FAN/LIGHT SWITCH
K - KEY OPERATED SWITCH
L - SINGLE POLE ILLUMINATED SWITCH - ILLUMINATED WHEN OFF
LV - LOW VOLTAGE SWITCH
P - SWITCH WITH PILOT LIGHT - ILLUMINATED WHEN ON
T_ TIMER SWITCH (NUMBER REFERS TO TIMEOUT PER SPECS)
U_ UNDERCABINET

$OS_ \ $VS_ — ANALOG OCCUPANCY (OS) OR VACANCY SENSOR (VS) SWITCH -
_ (BLANK)- SINGLE POLE
2 - (DUAL RELAY)
3 - (THREE-WAY)
V - (0-10V DIM)
D - (120V DIM, 150W)

- LC — LIGHTING CONTACTOR
- LCP — LIGHTING CONTROL PANEL
- PC — PHOTOELECTRIC CELL
- OS_ — ANALOG OCCUPANCY OR VACANCY SENSOR:
  C - CEILING MOUNT.
  K - CORNER MOUNT WITH MOUNTING ARMATURE.
  G - GARAGE CEILING, AS NOTED ON PLANS
- $D_ — DIGITAL LIGHTING CONTROL WALL STATION:
  1 - ZONE DIMMER (ENGRAVE "ON/▲" AND "OFF/▼", UON)
  2 - (2) BUTTON SCENE (ENGRAVE "▲" AND "▼", UON)
  3 - WALL OCC. AND DIM SWITCH (ENGRAVE "▲" AND "▼", UON)
  4 - (4) BUTTON SCENE WITH RAISE/LOWER (CUSTOM ENGRAVING)
  5 - (4) BUTTON ZONE SWITCH, (2) ON/(2) OFF (CUSTOM ENGRAVING)
  6 - WALL OCC. SWITCH (ENGRAVE "ON" AND "OFF")
  8 - (8) BUTTON ZONE SWITCH, (4) ON/(4) OFF (CUSTOM ENGRAVING)
  OR - OVERRIDE SWITCH FOR PUBLIC AREA LIGHTING CONTROL SYSTEM
  P - PARTITION SWITCH
- DO_ — DAYLIGHT SENSOR:
  CL - CLOSED LOOP
  OL - OPEN AND CLOSED LOOP SENSOR FOR SKYLIGHTS
- DS D_ \ VS D_ — DIGITAL LIGHTING CONTROL SYSTEM OCCUPANCY (OS) OR VACANCY (VS) SENSOR, WATTSTOPPER DLM OR SENSOR OR SENSOR SWITCH nLIGHT:
  C - CEILING-MOUNT DUAL-TECH #LMDC-100 OR nCM PDT-9
  H - HALLWAY PIR
  K - WALL/CORNER-MOUNT DUAL-TECH (WITH MOUNTING BRACKET)
  U - CEILING-MOUNT ULTRASONIC TECHNOLOGY (DLM ONLY)
- $W_ — WIRELESS DIGITAL LIGHTING WALL STATION
  LUTRON 'VIVE' MODEL, OAE:
  1 - ZONE DIMMER, 2-BUTTON RAISE/LOWER
  2 - ON/OFF SWITCH
  3 - ZONE DIMMER, 3-BUTTON RAISE/LOWER
  4 - SCENE SWITCH, 4-BUTTON WITH CUSTOM ENGRAVING #PJ2-4B-GXX-EL2, #PICO-WBX-ADAPT
  D - WIRELESS-CONTROLLED MLV WALL BOX DIMMER
  E - WIRELESS-CONTROLLED ELV WALL BOX DIMMER
- DS W_ \ VS W_ — WIRELESS OCCUPANCY (OS) OR VACANCY (VS) SENSOR
  LUTRON 'VIVE' MODEL, OAE:
  C - CEILING PIR SENSOR 360°
  W - WALL-MOUNT PIR SENSOR 180°
  K - CORNER-MOUNT PIR SENSOR 90°
  H - HALLWAY PIR SENSOR 150°
  D - CEILING-MOUNT DAYLIGHT SENSOR
  V - CEILING FLUSH-MOUNT HUB
- VH — LUTRON VIVE HUB, FLUSH MOUNT, UON.
  PROVIDE (1) CAT6 TO EACH LOCATION

NOTE: FOR ANALOG, DIGITAL, OR WIRELESS LIGHTING CONTROL, PROVIDE ALL REQUIRED 0-10V OR LINE VOLTAGE DIMMING POWER PACKS/ROOM CONTROLLERS, WIRING, MOUNTING AND FEED ACCESSORIES FOR A COMPLETE AND FUNCTIONING CONTROL SYSTEM.

POWER SYMBOLS

- CIRCUIT BREAKER
- FUSE
- SWITCH
- DRAW-OUT CIRCUIT BREAKER
- G — CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
- G — FUSED SWITCH WITH GROUND FAULT PROTECTION
- M — METER
- A — AMMETER
- V — VOLTMETER
- CURRENT TRANSFORMER (CT)
- POTENTIAL TRANSFORMER (PT)
- G — ENGINE GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- COMBINATION MOTOR STARTER / DISCONNECT SWITCH
- T — DRY TYPE TRANSFORMER
- CT — CURRENT TRANSFORMER (CT)
- UTILITY POLE
- GROUNDING ELECTRODE
- GROUND BUSS
- GROUND ROD
- MH — MAN HOLE
- HH — HAND HOLE
- 0.00 — FEEDER SIZE TAG, SEE FEEDER SCHEDULE
- PANEL ? — PANELBOARD
- LOAD CENTER ? — PANELBOARD
- SURFACE MOUNTED PANELBOARD OR LOAD CENTER
- FLUSH MOUNTED PANELBOARD OR LOAD CENTER
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE (T = TVSS)
- GFCI PROTECTED DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- GFCI PROTECTED DOUBLE DUPLEX RECEPTACLE
- SPLIT WIRED AND/OR SWITCHED RECEPTACLE
- CEILING MOUNTED RECEPTACLE (CR = CORD REEL DEVICE)
- IN-FLOOR DUPLEX RECEPTACLE
- IN-FLOOR DOUBLE DUPLEX RECEPTACLE
- IN-FLOOR COMBINATION RECEPTACLE/COMMUNICATIONS DEVICE
- SPECIAL PURPOSE RECEPTACLE
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- $TO — TOGGLE SWITCH WITH INTEGRAL THERMAL OVERLOADS
- PUSH BUTTON, TYPE AS NOTED
- GA — GENERATOR ANNUNCIATOR
- PLUGMOLD (LENGTH AS SHOWN ON DRAWING)
- SURFACE RACEWAY
- CABLE TRAY (LENGTH AS SHOWN ON DRAWING)
- CONDUIT END BUSHING
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT BREAK SYMBOL

ELECTRICAL PHASING NOTES

A. THE DEMOLITION OF THE ELECTRICAL SYSTEMS MUST BE PHASED TO CORRESPOND TO THE PHASED NATURE OF THE CONSTRUCTION OF THIS PROJECT. SEE THE ARCHITECTURAL PHASING PLANS FOR MORE DETAILS.

B. IF ANY SYSTEM OR PORTION OF A SYSTEM IS REMOVED WHILE THAT SYSTEM IS STILL REQUIRED TO BE OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SYSTEM TO A FULLY OPERATIONAL STATE. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORK NECESSARY TO KEEP REQUIRED SYSTEMS OPERATIONAL UNTIL THEY ARE NO LONGER NEEDED. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO: RELOCATION OF SYSTEM EQUIPMENT, REROUTING OF CONDUCTORS AND CONDUIT AND RELOCATING DEVICES AND EQUIPMENT.

C. EXISTING SYSTEMS THAT WILL REMAIN OPERATIONAL THROUGH MOST OR ALL OF THE CONSTRUCTION PERIOD INCLUDE, BUT ARE NOT LIMITED TO: NURSE CALL SYSTEMS, RESIDENT WANDER SYSTEMS, FIRE ALARM SYSTEM, TELEPHONE SYSTEMS, CLOSED CIRCUIT TV SYSTEMS, ACCESS CONTROL SYSTEMS, CABLE TV SYSTEMS, COMPUTER NETWORK SYSTEMS, MECHANICAL SYSTEMS (COORDINATE WITH DIVISION 23), AND PORTIONS OF THE POWER AND LIGHTING SYSTEMS. ANY SHUTDOWN (EITHER LONG-TERM OR SHORT-TERM) OF ANY OF THESE SYSTEMS MUST BE COORDINATED WITH AND APPROVED BY THE OWNER.

D. ELEMENTS OF ELECTRICAL SYSTEMS PHYSICALLY LOCATED OUTSIDE OF THE CURRENT PHASE AS DEFINED BY THE ARCHITECTURAL PHASING PLANS MAY NEED TO BE COMPLETED IN ADVANCE OF THE DICTATED PHASING IN ORDER TO COMPLETE ITEMS WITHIN THE CURRENT PHASE. COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE TO ENSURE CONTINUITY OF SYSTEM OPERATION AS REQUIRED BY THE OWNER.

E. FIRE ALARM COMPONENTS SHALL BE INSTALLED AND OPERATIONAL IN EACH PHASED AREA AS THE AREA IS READY TO BE OCCUPIED, INCLUDING IN AREAS WHERE PERSONNEL ARE TEMPORARILY LOCATED DURING CONSTRUCTION.

F. IF THE NEED FOR TEMPORARY SERVICE(S) DICTATES WORK MUST BE DONE AHEAD OF SCHEDULE OR DELAYED FOR A PARTICULAR AREA, WORK AHEAD OF SCHEDULE OR DELAYED WORK MUST BE APPROVED BY THE ARCHITECT AND OWNER. WORK SHALL TAKE PLACE IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE DAY-TO-DAY OPERATION OF THE FACILITY AS DETERMINED BY THE OWNER.

ELECTRICAL GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO BID TO VERIFY DIMENSIONS AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO EXTRAS WILL BE GIVEN FOR ADDITIONAL WORK WHICH IS REQUIRED RESULTING FROM CONTRACTOR'S FAILURE TO BECOME FAMILIARIZED WITH THE SITE AND FACILITIES.

B. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO BEGINNING ROUGH-IN. PANELBOARD AND CIRCUIT INFORMATION FOR MECHANICAL EQUIPMENT ARE SHOWN ADJACENT TO MECHANICAL EQUIPMENT TAGS ON DRAWINGS.

C. COORDINATE EXACT LOCATIONS OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, REFLECTED CEILING PLANS (WHERE SHOWN), CASEWORK SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS PRIOR TO BEGINNING ROUGH-IN. UON, RECEPTACLES THAT FEED APPLIANCES SUCH AS REFRIGERATORS, DISHWASHERS, OVENS, ETC. SHALL BE LOCATED BEHIND THE APPLIANCE. UNDER-CABINET MICROWAVE AND RANGE HOODS SHALL HAVE THE RECEPTACLE MOUNTED IN THE CABINET ABOVE THE APPLIANCES.

D. THE CONTRACTOR SHALL VERIFY ALL ROUGH-IN REQUIREMENTS FOR ELECTRICALLY OPERATED EQUIPMENT WITH THE EQUIPMENT SUPPLIERS.

E. PROVIDE A SET OF CONSTRUCTION DOCUMENTS TO THE OWNER AND SCHEDULE A MEETING WITH THE OWNER FOR VERIFICATION OF ALL ENGRAVED NAMEPLATES (WHETHER EQUIPMENT OR LIGHTING), ROOM NAMES/NUMBERS FOR PANEL DIRECTORIES AND FINAL LOCATION OF ELECTRICAL ITEMS.

F. COORDINATE ALL POWER OUTAGES WITH THE OWNER AT LEAST TWO WEEKS IN ADVANCE. WRITTEN CONFIRMATION IS REQUIRED. ACTIVITIES PLANNED BY THE OWNER SHALL TAKE PRECEDENCE OVER THE CONTRACTOR'S WORK. NO EXTRA TIME WILL BE ALLOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE AND SCHEDULE WORK ACCORDINGLY.

G. ALL EXISTING BUILDING FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING FACILITIES OR EQUIPMENT TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

H. COORDINATE ELECTRICAL DEVICE LOCATIONS WITH CHAIR RAILS, CORNER GUARDS, DOOR TRIMS, ETC. NOTIFY ARCHITECT OF CONFLICTING LOCATIONS.

I. GFI 'FEED-THROUGH' DEVICES SHALL NOT BE USED TO PROTECT DOWN-STREAM DEVICES ON THE SAME CIRCUIT. PROVIDE SEPARATE GROUND FAULT RECEPTACLES AT EACH LOCATION INDICATED, UON.

J. RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GFCI-TYPE RECEPTACLES.

K. WHERE RECEPTACLES ARE SHOWN BELOW OR IN CLOSE PROXIMITY TO LIGHT SWITCHES, THE CENTERLINES OF THE DEVICES SHALL BE ALIGNED VERTICALLY.

L. COORDINATE FINAL LIGHT FIXTURE LOCATIONS WITHIN MECHANICAL AND ELECTRICAL SPACES WITH EQUIPMENT, DUCTWORK, PIPING, CONDUITS, ETC. FOR BEST POSSIBLE LIGHTING UNIFORMITY.

M. THE LOCATION OF ALL CEILING-MOUNTED OCCUPANCY SENSORS SHALL BE CONSIDERED AS SCHEMATIC ONLY. FINAL OCCUPANCY SENSOR LAYOUT SHALL BE PROVIDED BY THE SUCCESSFUL VENDOR. ALL OCCUPANCY SENSORS SHALL BE PROPERLY SET AND TESTED FOR OPTIMAL OPERATION. A MANUFACTURER'S REPRESENTATIVE SHALL RE-VISIT THE PROJECT SITE TWO WEEKS AFTER BUILDING/PHASED AREA OCCUPANCY TO PERFORM ANY ADDITIONAL CALIBRATION AND AIMING ADJUSTMENT AS REQUIRED TO SATISFY BUILDING OCCUPANTS.

N. UNLESS OTHERWISE NOTED, ALL DUAL TECHNOLOGY OCCUPANCY SENSORS SHALL REQUIRE ONLY ONE OF THE TWO TECHNOLOGIES (ULTRASONIC OR PIR) TO SENSE MOTION FOR THE LIGHTING TO TURN 'ON'. CONTRACTOR SHALL VERIFY WITH THE OWNER THE TIME OUT SETTINGS (MAXIMUM OF 30 MINUTES) FOR EACH TYPE OF ROOM. TIME OUT SHALL BE DEFINED AS THE LENGTH OF THE TIME THIS LIGHTING REMAINS 'ON' AFTER THE LAST MOTION IS SENSED.

O. SWITCHES THAT ARE SHOWN AT ROOM ENTRANCES AND ARE NOT SPECIFICALLY IDENTIFIED BY KEY NOTES OR SWITCH-LEG INDICATORS ARE INTENDED TO OPERATE ALL OF THE GENERAL LIGHTING IN THAT ROOM ONLY. COORDINATE AND CONFIRM ALL DOOR SWINGS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY LIGHT SWITCHES. SWITCHES SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR WHENEVER POSSIBLE. REFER TO THE DEVICE MOUNTING LOCATION DETAIL.

P. THE SYSTEM BACKBOARD SHALL CONSIST OF 3/4 INCH FIRE-RETARDANT TREATED PLYWOOD INSTALLED FLOOR TO CEILING FOR THE LENGTH AS SHOWN ON THE DRAWING. ALL OUTLETS IN THE BACKBOARD SHALL BE FLUSH-MOUNTED, UON.

ELECTRICAL DEMOLITION NOTES

A. INFORMATION REGARDING THE EXISTING CONDITIONS WAS GATHERED FROM AVAILABLE EXISTING DRAWINGS, SURVEY AND CORRESPONDENCE WITH STAFF. THERE ARE NO GUARANTEES AS TO THE ACCURACY OF THIS INFORMATION AND IT IS OFFERED FOR INFORMATION ONLY.

B. THE ITEMS INDICATED ON THE DEMOLITION DRAWINGS HIGHLIGHT SOME OF THE CRITICAL DEMOLITION ISSUES, BUT THE DRAWINGS ARE NOT INTENDED TO BE AN ALL-INCLUSIVE DEMOLITION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK. THEREFORE, AS STATED ELSEWHERE ON THIS DRAWING, IT IS IMPERATIVE THAT THE CONTRACTOR THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID FOR THE WORK, DUE TO THE NATURE OF THIS PROJECT AND THE STATE OF THE EXISTING BUILDING, THESE DRAWINGS CANNOT COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED. FAILURE TO VISIT THE SITE OR THOROUGHLY REVIEW ALL PROJECT DRAWINGS AND SPECIFICATIONS WILL NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF THE DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK. COORDINATE WORK WITH ALL OTHER TRADES.

C. UNLESS OTHERWISE INDICATED, ALL ITEMS SHOWN TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, WIRE, BOXES, ETC. BACK TO POINT OF ORIGIN OR NEAREST EXISTING ITEM TO REMAIN. WHERE AN ELECTRICAL DEVICE IS REMOVED FROM AN EXISTING WALL TO REMAIN, THE BACK BOX SHALL BE REMOVED AND THE CONDUIT AND WIRE SHALL BE CUT BACK TO THE POINT WHERE IT IS NOT VISIBLE SO THAT THE WALL CAN BE PATCHED. WHERE APPROPRIATE, PROTECT CIRCUITRY FOR CONNECTION(S) TO NEW DEVICES AND/OR EQUIPMENT INDICATED ON NEW WORK PLANS.

D. COMPLETELY REMOVE ALL UNUSED WIRE, CONDUIT, BOXES, ETC. THAT WILL BE EXPOSED OR LEFT ABOVE ACCESSIBLE CEILINGS, INCLUDING ANY ITEMS THAT ARE CURRENTLY UNUSED OR ABANDONED IN PLACE.

E. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY OR ALL OF THE DEMOLISHED ELECTRICAL MATERIALS, INCLUDING WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ANY MATERIALS NOT SALVAGED BY THE OWNER.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL CONNECTIONS TO EXISTING AND NEW SYSTEMS AS NECESSARY TO FACILITATE PROPER CONTINUAL OPERATION OF ALL SYSTEMS AND EQUIPMENT, EXISTING OR NEW, EXCEPT WHERE IN CURRENT AREA OF CONSTRUCTION.

G. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF ELECTRICAL SYSTEM COMPONENTS DAMAGES EXISTING SURFACES TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT UNDISTURBED SURFACES. RESTORATION MUST BE PERFORMED BY WORKERS SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SEAL HOLES. WEATHERTIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.

H. DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF DEMOLITION. PROPERLY SUPPORT ALL EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SUPPORTS FOR AFFECTED ITEMS.

I. VERIFY EXTENT OF CONDUITS, WIRING, EQUIPMENT COMPONENTS AND FIXTURES TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

J. WHERE EXISTING DEVICES ARE TO BE REMOVED FROM WALLS WHICH ARE TO REMAIN, WALLS SHALL BE PATCHED AND PAINTED TO MATCH FINISH AFTER CONDUCTORS HAVE BEEN REMOVED. PROVIDING A BLANK COVER PLATE OVER AN EXISTING BOX IS NOT ACCEPTABLE IN FINISHED AREAS.

K. REINSTALL ALL EXISTING DEVICES DESIGNATED AS "EXISTING TO REMAIN" ON NEWLY REFINISHED CEILING/WALL/FLOOR. USE MUD RINGS, BOX EXTENSIONS AS REQUIRED TO HAVE THE DEVICE AND COVER PLATE REST FLUSH UP AGAINST THE NEW WALL SURFACE.

L. ELECTRICAL SYSTEMS PASSING THROUGH AREA TO BE DEMOLISHED TO AREAS OUTSIDE THE SCOPE OF THIS PROJECT SHALL BE MAINTAINED. CONTRACTOR SHALL RELOCATE THE WIRING AND CONDUIT FOR ANY SUCH SYSTEMS AS NECESSARY FOR THE COMPLETION OF THIS PROJECT AT NO ADDITIONAL COST. IN ADDITION, CONTRACTOR SHALL MAINTAIN CONTINUITY DURING CONSTRUCTION FOR ALL CIRCUITS AND SYSTEMS NOT SCHEDULED FOR DEMOLITION.

M. RECONNECT ALL DOWNSTREAM DEVICES THAT ARE AFFECTED BY DEMOLITION AS REQUIRED TO KEEP THEM FULLY AND PERMANENTLY OPERATIONAL.

N. THE CONTRACTOR SHALL BE AWARE THAT THE EXISTING BUILDING(S) AND ADJACENT SITE WILL BE OCCUPIED AND IN USE DURING THE LENGTH OF THE CONTRACT 24 HOURS PER DAY, 7 DAYS A WEEK. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO THAT THERE WILL BE MINIMUM INTERFERENCE WITH THE CONTINUED OPERATIONS OF THE EXISTING BUILDING AND STAFF. ANY INTERFERENCE OR INCONVENIENCE WITH THE CONTINUED OPERATIONS OF THE BUILDING(S) SHALL BE REVIEWED WITH THE ARCHITECT AND OWNER PRIOR TO APPROVAL.

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
RH
ENGINEERING/TECHNOLOGY/LIGHTING
reesehackman.com

Superior, CO North Pool
1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
Checked By:	R.H.

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Description	Date:

Sheet title:

ELECTRICAL LEGEND AND GENERAL NOTES

E001

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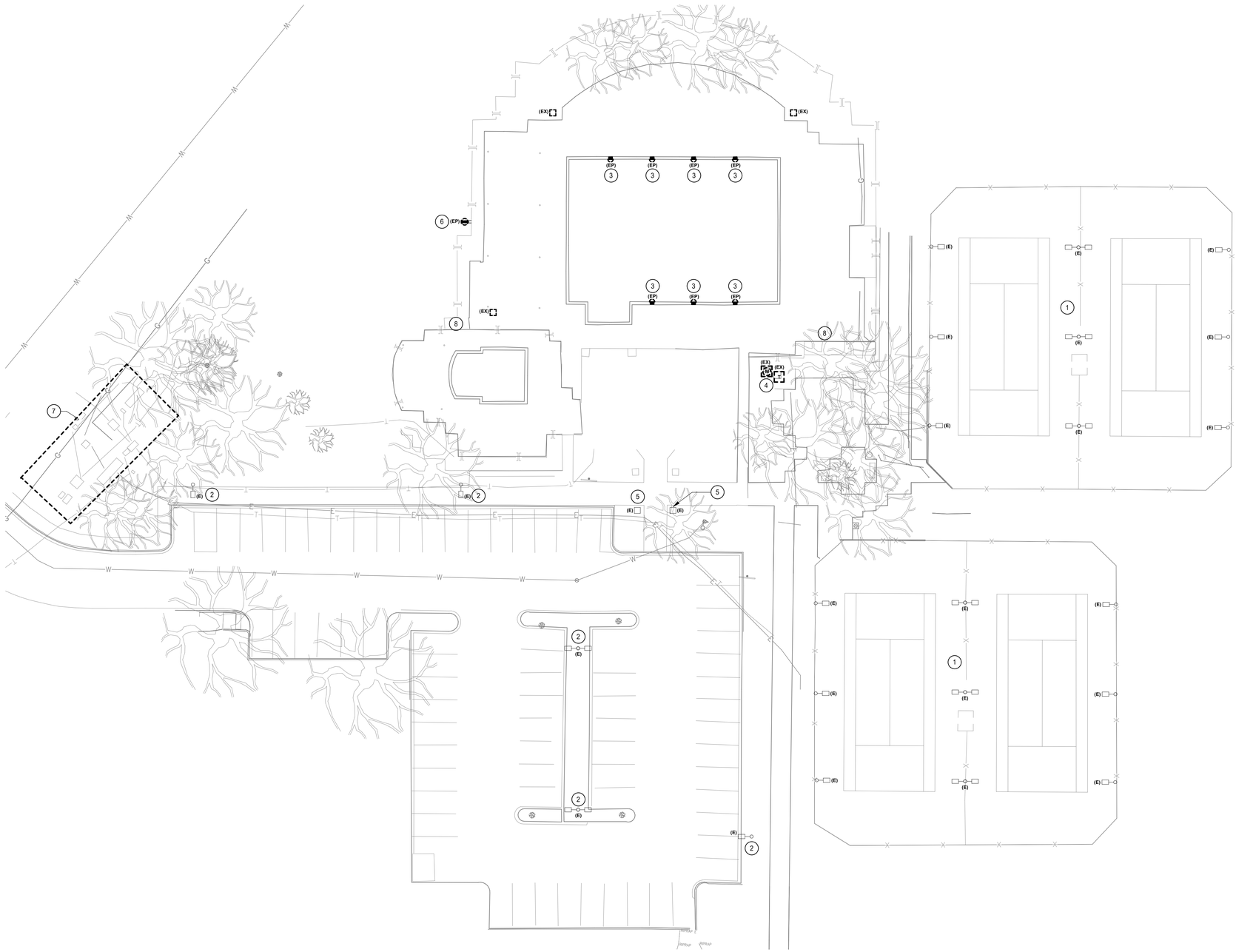
1/9/2026 9:30:35 AM Autodesk Docs://Superior North Pool Renovation/2025003_SNP_ELEC_R24.rvt



1 E101 **SITE ELECTRICAL DEMOLITION PLAN**
SCALE: 1" = 20'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. THIS PLAN DOES NOT INDICATE ALL OF THE UNDERGROUND UTILITY LINES. NO LOCATION BY EXCAVATION WAS PERFORMED FOR THIS PROJECT. UTILITIES SHOWN ARE BASED ON DRAWINGS RECEIVED FROM THE SITE ENGINEER. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITY LINES (NEW AND EXISTING) OF ALL TRADES PRIOR TO ANY SITE WORK.

E. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING UTILITY TRANSFORMER AND THE ASSOCIATED PRIMARY CONDUCTORS AND CONDUIT (IF APPLICABLE) WITH XCEL ENERGY.

F. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. ALL EXISTING TENNIS COURT LIGHTING, CONTROLS AND POWER SHALL REMAIN. PROTECT EXISTING CIRCUITRY TO REMAIN AND INTERCEPT CIRCUITS AS NECESSARY FOR EXTENSION TO NEW PANELBOARD.
2. EXISTING POLE MOUNTED LIGHT FIXTURE, POLE BASE AND EXISTING CIRCUITRY SHALL REMAIN. CIRCUITRY SHALL BE EXTENDED TO NEW PANEL AS INDICATED ON E102.
3. REMOVE EXISTING UNDERWATER POOL LIGHTS (QTY = 7) AND ASSOCIATED CONDUIT AND WIRING. PROTECT LOCATIONS FOR NEW UNDERWATER LIGHTS AND NEW CIRCUITRY.
4. REMOVE EXISTING UTILITY TRANSFORMER, CT CABINET AND METER. COORDINATE ALL WORK WITH XCEL ENERGY, INCLUDING THE REMOVAL OF THE PRIMARY CONDUCTORS AND CONDUIT (IF APPLICABLE) AS REQUIRED BY XCEL.
5. EXISTING BOLLARD LIGHT FIXTURE. BOLLARD BASE AND EXISTING CIRCUITRY SHALL REMAIN. CIRCUITRY SHALL BE EXTENDED TO NEW PANEL AS INDICATED ON E102.
6. CIRCUITRY TO MONUMENT SIGN AT NORTHERN CORNER OF SITE IS ROUTED THROUGH THIS LOCATION. PROTECT AND REROUTE CIRCUIT TO NEW PANEL IN BATHHOUSE BUILDING.
7. EXISTING ELECTRICAL EQUIPMENT IN THIS AREA, INCLUDING XCEL ENERGY DISTRIBUTION EQUIPMENT, SHALL REMAIN.
8. EXISTING EQUIPMENT. OWNER SHALL WALK SITE BEFORE DEMOLITION TO VERIFY IF EQUIPMENT SHOULD BE SAVED OR DEMOLISHED.

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 01.09.2026 37135 PROFESSIONAL ENGINEER

Project Number:	2025.009
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SITE ELECTRICAL DEMOLITION PLAN

E101

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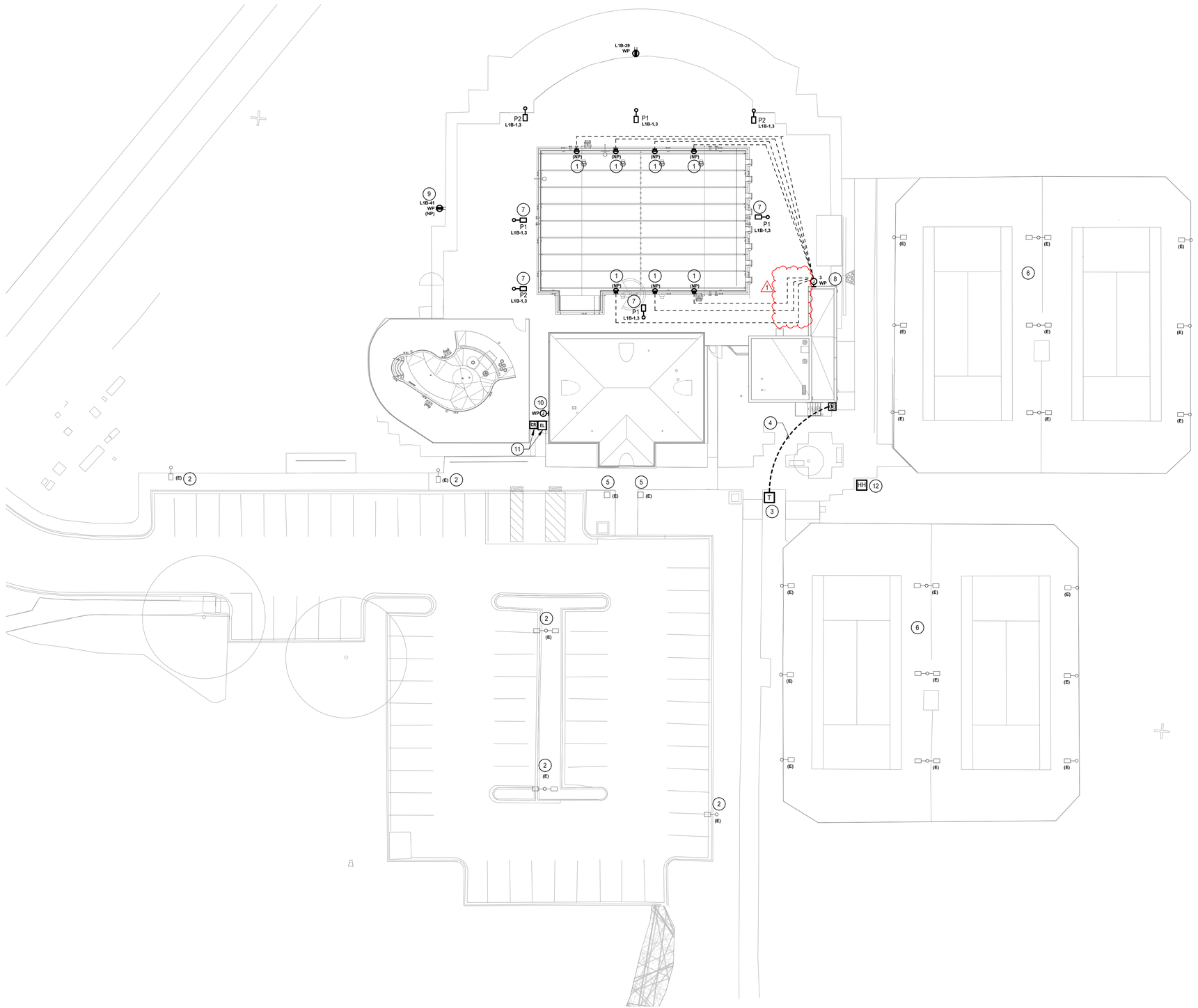
NOTE: AS APPROVED BY TOWN COUNCIL, NO NEW ELECTRIC VEHICLE CARGING STATIONS WILL BE REQUIRED FOR THIS PROJECT.



1 E102 **SITE ELECTRICAL PLAN**

SCALE: 1" = 20'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. THIS PLAN DOES NOT INDICATE ALL OF THE UNDERGROUND UTILITY LINES. NO LOCATION BY EXCAVATION WAS PERFORMED FOR THIS PROJECT. UTILITIES SHOWN ARE BASED ON DRAWINGS RECEIVED FROM THE SITE ENGINEER. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITY LINES (NEW AND EXISTING) OF ALL TRADES PRIOR TO ANY SITE WORK.

E. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, TRENCHING AND BACKFILLING, INCLUDING WORK ON PRIMARY SIDE OF NEW TRANSFORMER AS REQUIRED BY XCEL ENERGY. REFER TO CIVIL DRAWINGS FOR DRY UTILITY EASEMENT LOCATIONS.

F. BURIAL DEPTH FOR XCEL ENERGY AND POWER SERVICE CONDUITS SHALL BE 3'-6" BELOW GRADE, MINIMUM.

G. MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS SHALL BE 1". MINIMUM CONDUCTOR SIZE SHALL BE #10AWG. MINIMUM BURIAL DEPTH SHALL BE 24" BELOW FINISHED GRADE, UON. REFER TO SPECIFICATIONS FOR VOLTAGE DROP LIMITATIONS ON BRANCH CIRCUITS AND UP-SIZE CONDUCTORS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

H. UNLESS OTHERWISE NOTED, PROVIDE SEPARATE QUAZITE OAE HAND HOLES FOR LIGHTING AND POWER. LIDS SHALL INDICATE THE TYPE OF SERVICE IN THE HAND HOLE.

I. REFER TO POLE BASE DETAILS ON E800 SERIES DRAWINGS FOR NEW CONCRETE BASE REQUIREMENTS.

J. FIELD COORDINATE LIGHT FIXTURE LOCATIONS WITH LANDSCAPING, SIDEWALKS AND SITE FEATURES, INCLUDING HARDSCAPE, STAIRS, RETAINING WALLS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

K. SITE RECEPTACLES NOT MOUNTED TO BUILDING OR STRUCTURES SHALL BE INSTALLED IN ARLINGTON INDUSTRIES 19.5" GARD-N-POST SUPPORT. CONFIRM COLOR AND LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE METAL IN-USE COVER ON RECEPTACLE.

L. PER NEC ARTICLE #680.26, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMMON BONDING GRID MADE UP OF BUT NOT LIMITED TO:

1. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING METAL OF THE POOL SHELL, COPING STONES, AND NEW POOL DECK.
2. ALL FORMING SHELLS AND MOUNTING BRACKETS OF A NO-NICHE FIXTURE.
3. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
4. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL WATER CIRCULATING SYSTEM, INCLUDING PUMP MOTORS.
5. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL COVERS, INCLUDING ELECTRIC MOTORS.
6. METAL-SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS THAT ARE WITHIN 5FT. HORIZONTALLY OF THE INSIDE WALLS OF THE POOL, AND WITHIN 12FT. ABOVE THE MAXIMUM WATER LEVEL OF THE POOL, OR FROM ANY DIVING STRUCTURES, AND THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER.

M. ELECTRICAL CONTRACTOR SHALL HAVE A THIRD PARTY PERFORM A SEPARATE BONDING TEST PRIOR TO COVERING THE BONDING JUMPERS AND ANOTHER BONDING TEST AFTER THE BONDING JUMPERS HAVE BEEN COVERED.

N. CONFIRM ALL POOL EQUIPMENT EPO LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN.

O. CONFIRM THE LOCATIONS OF ALL AQUATICS FEATURES AND EQUIPMENT WITH THE POOL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS.

P. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

Q. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1A'.

R. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

1 S. SITE LIGHTING SHALL BE CONTROLLED VIA ASTRONOMICAL TIME-CLOCK. REFER TO E800 SERIES FOR ADDITIONAL INFORMATION.

KEY NOTES

1. WET NICHE FOR UNDERWATER LIGHT FIXTURE. THE LIGHT NICHE SHALL BE FURNISHED AND INSTALLED BY THE POOL CONTRACTOR. THE LIGHT NICHE SHALL BE GROUNDED BY THE ELECTRICAL CONTRACTOR. UNDERWATER LIGHT FIXTURE WITH CORD ATTACHED SHALL BE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 3/4" WATERTIGHT CORROSION RESISTANT CONDUIT FROM THE LIGHT NICHE TO THE JUNCTION BOX AS SHOWN ON PLANS. INSTALLATION SHALL BE PER THE NATIONAL ELECTRICAL CODE ARTICLE 680. REFER TO AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO E800 SERIES FOR LIGHTING CONTROL INFORMATION.
2. EXISTING POLE MOUNTED LIGHT FIXTURE, BASE AND EXISTING CIRCUITRY TO REMAIN. EXTEND CIRCUITRY BACK TO NEW PANEL LOCATION. REFER TO E702 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. NEW UTILITY TRANSFORMER, CT CABINET AND METER. COORDINATE ALL WORK WITH XCEL ENERGY, INCLUDING THE ADDITION OF NEW THE PRIMARY CONDUCTORS AND CONDUIT (IF APPLICABLE) AS REQUIRED BY XCEL, TO NEW 3-PHASE TRANSFORMER.
4. COORDINATE ROUTING OF NEW SERVICE TO BUILDING WITH EXISTING TREES AND LANDSCAPING IN THIS AREA.
5. EXISTING BOLLARD LIGHT FIXTURE, BASE AND EXISTING CIRCUITRY TO REMAIN. EXTEND CIRCUITRY BACK TO NEW PANEL LOCATION. REFER TO E702 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. EXISTING TENNIS COURT LIGHT FIXTURES, BASE AND EXISTING CIRCUITRY TO REMAIN. EXTEND CIRCUITRY BACK TO NEW PANEL LOCATION. REFER TO E702 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
7. POLE MOUNTED LIGHT FIXTURE MOUNTED 10'-0" AWAY FROM INSIDE WALLS OF THE POOL TO COMPLY WITH NEC ARTICLE 680.22.
8. LOCATION OF FLUSH MOUNTED, CORROSION RESISTANT JUNCTION BOX LISTED FOR POOL USE FOR CONNECTION TO UNDERWATER LIGHT FIXTURES. JUNCTION BOXES SHALL BE LOCATED 18" ABOVE THE ASSOCIATED DECK LEVEL. INSTALLATION SHALL BE PER THE NATIONAL ELECTRICAL CODE ARTICLE 680.
9. MAINTAIN CIRCUITRY TO MONUMENT SIGN AT NORTHERN CORNER OF SITE. CIRCUIT IS ROUTED THROUGH THIS LOCATION.
10. PROVIDE 8"X8"X6" SECURITY JUNCTION BOX AND 1" CONDUIT WITH PULL CORD BACK TO TELECOM AREA/SECURITY PANEL LOCATION.
11. PROVIDE WP JUNCTION BOXES FOR CARD READER AND ELECTRIC STRIKE AT GATE. PROVIDE 3/4" CONDUIT WITH PULL CORD TO ADJACENT NEW SECURITY JUNCTION BOX. COORDINATE WITH FENCE/GATE INSTALLER (INCLUDING HARDWARE INSTALLER) AND TOWN'S SECURITY VENDOR.
12. PROVIDE WP HANDHOLE WITH 1" CONDUIT AND PULL CORD BACK TO TELECOM AREA FOR FUTURE WIRELESS ACCESS POINT AND CABLING (BY OTHERS) FOR TENNIS COURTS AREA. CONFIRM HAND HOLE LOCATION WITH OWNER.

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1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED PROFESSIONAL ENGINEER
MARK D. LAYFIELD
01.09.2026
37135

Project Number:	2025.009
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SITE ELECTRICAL PLAN

E102

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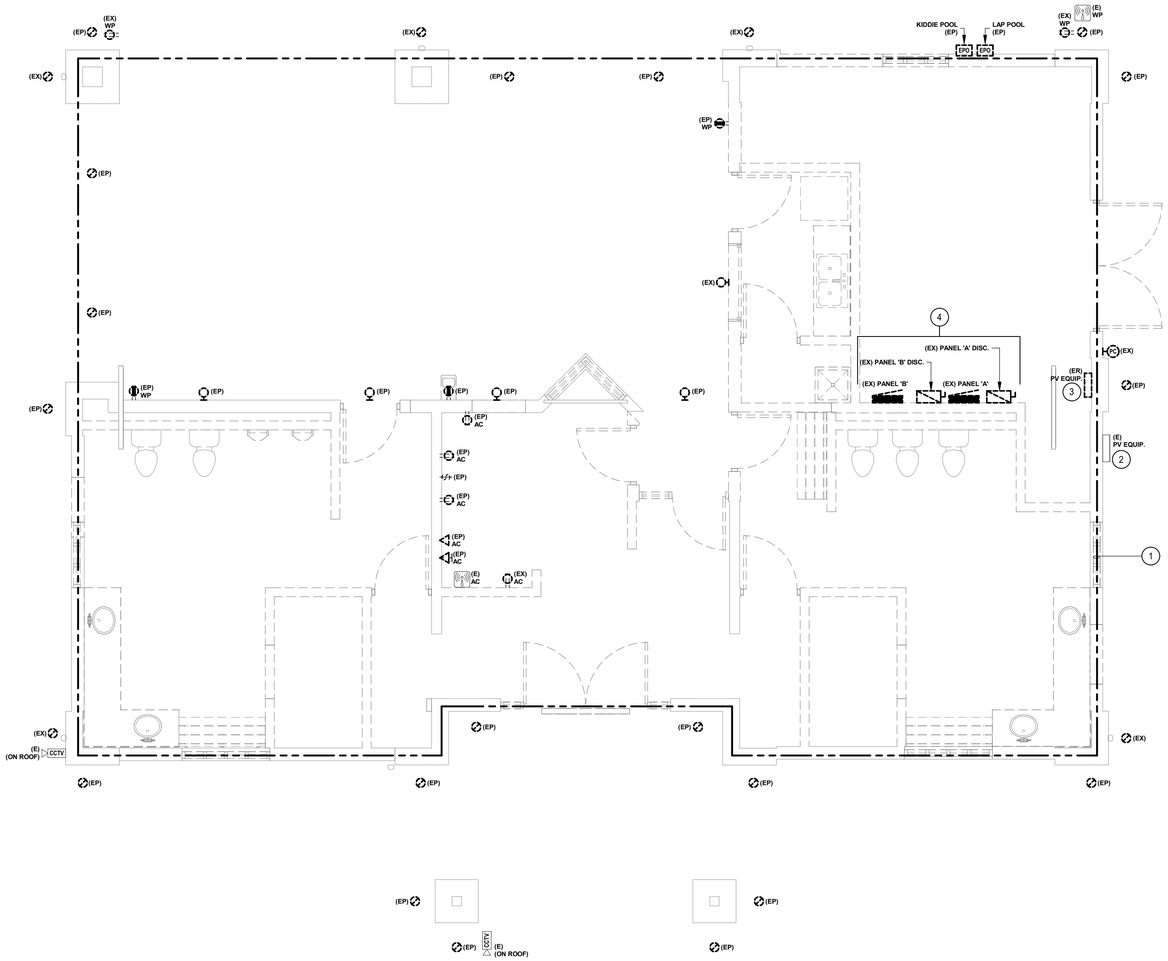

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. REFER TO NEW POWER AND LIGHTING PLANS. WHERE NEW DEVICE AND/OR EQUIPMENT LOCATIONS MATCH EXISTING DEVICE AND/OR EQUIPMENT LOCATIONS, BACK-BOXES AND EXISTING RACEWAYS MAY BE REUSED TO THE EXTENT THAT THEY ARE IN WORKING ORDER AND COMPLY WITH ALL NEW REQUIREMENTS AND SPECIFICATIONS. ALL DEVICES, FACEPLATES, CIRCUITRY AND TELECOM CABLING SHALL BE NEW.

E. ALL WIRELESS ACCESS POINTS FOR THE WI-FI SYSTEM SHALL BE EXISTING TO REMAIN. PROVIDE NEW CONDUIT TO EQUIPMENT FOR NEW TELECOM CABLING PROVIDED BY OWNER OR OWNER'S VENDOR. REMOVE EQUIPMENT AND PROTECT DURING CONSTRUCTION AND REINSTALL ACCORDINGLY.

F. COORDINATE ALL WORK REQUIRED FOR THE EXISTING PV SYSTEM WITH THE TOWN'S PV VENDOR, NAMASTE SOLAR, GRACE BJORLAND, 720.305.4497 (DIRECT), 303.447.0300 (MAIN), grace.bjorland@namastesolar.com.

G. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. THIS IS AN AREA OF SUBSTANTIAL DEMOLITION. UNLESS REQUIRED TO FACILITATE OTHER DEMOLITION WORK SHOWN IN THESE DOCUMENTS OR SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL DEMOLITION SHALL INCLUDE THE FOLLOWING:
   - REMOVAL OF ALL LIGHT FIXTURES (BOTH NORMAL AND EMERGENCY) AND ASSOCIATED CONTROLS AND CIRCUITRY.
   - REMOVAL OF ALL WIRING DEVICES, FACEPLATES, OUTLET BOXES AND ASSOCIATED CIRCUITRY.
   - ALL FIRE ALARM DEVICES AND WIRING.
   - ELECTRICAL PANELBOARDS, SERVICE DISCONNECTS AND INCOMING ELECTRICAL SERVICE(S). PROTECT EXISTING CIRCUITS THAT REMAIN, INCLUDING SITE LIGHTING AND/OR POWER CIRCUITS.
   - ELECTRICAL CONNECTIONS TO AQUATICS EQUIPMENT.
   - ELECTRICAL CONNECTIONS TO PLUMBING AND/OR MECHANICAL EQUIPMENT.

   REFER TO GENERAL NOTES ABOVE FOR INFORMATION ON BACK-BOXES AND/OR PARTIAL RACEWAYS THAT MAY REMAIN.
2. EXISTING EXTERIOR PV EQUIPMENT SHALL REMAIN. PROVIDE CONDUIT TO RELOCATED INTERIOR EQUIPMENT AS REQUIRED BY TOWN'S PV VENDOR.
3. EXISTING INTERIOR PV EQUIPMENT SHALL BE RELOCATED BY TOWN'S PV EQUIPMENT VENDOR. PROVIDE NEW CONCEALED CONDUIT(S) TO NEW LOCATIONS AS REQUIRED BY TOWN'S PV VENDOR. REFER TO GENERAL NOTES FOR PV VENDOR CONTACT INFORMATION.
4. AS INDICATED IN KEY NOTE 1 ABOVE, EXISTING PANELS AND DISCONNECTS SHALL BE DEMOLISHED. INTERCEPT ALL EXISTING CIRCUITS THAT REMAIN AFTER DEMOLITION EITHER ABOVE PANELS IN ATTIC SPACE OR BELOW PANELS IN CRAWL SPACE AND PROVIDE NEW PULL BOXES ACCORDINGLY FOR EXTENSION OF EXISTING CIRCUITS TO NEW PANEL LOCATIONS ACCORDINGLY. THIS INCLUDES, BUT IS NOT LIMITED TO, SITE POWER AND LIGHTING CIRCUITS, ETC.

1 E201 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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COLORADO LICENSED MARK D. LAYFIELD 01.09.2026 37135 PROFESSIONAL ENGINEER

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FIRST FLOOR ELECTRICAL DEMOLITION PLAN - BATHHOUSE

E201

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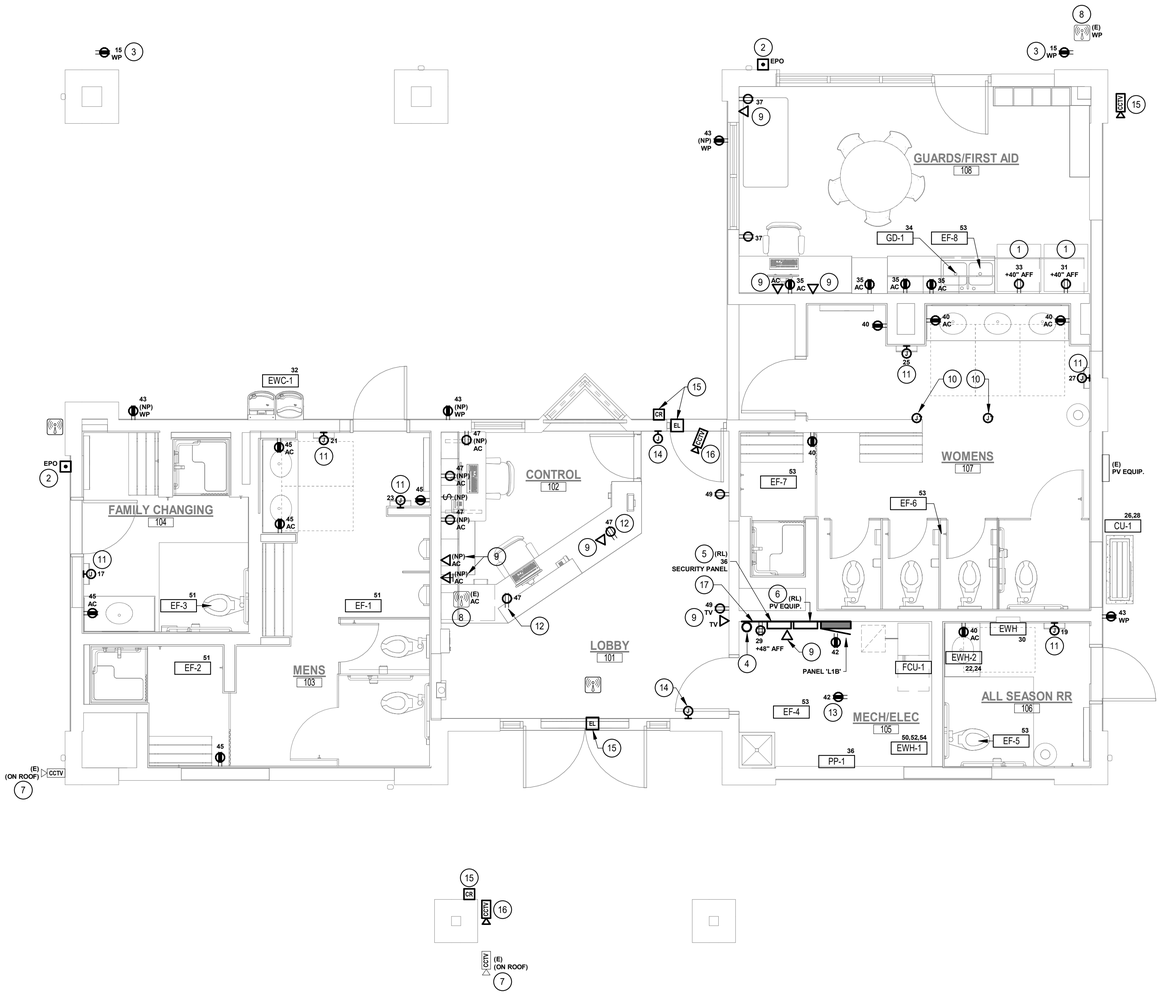

1 E301 FIRST FLOOR POWER PLAN - BATHHOUSE

SCALE: 1/4" = 1'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1B'.

C. COORDINATE ALL WORK REQUIRED FOR THE EXISTING PV SYSTEM WITH THE TOWN'S PV VENDOR, NAMASTE SOLAR, GRACE BJORLAND, 720.305.4497 (DIRECT), 303.447.0300 (MAIN), grace.bjorland@namastesolar.com.

D. REFER TO SPECIFICATION SECTION 28 5000 FOR EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM. TESTING AND REQUIRED PATHWAYS SHALL BE INCLUDED AS BASE BID. PROVIDE AN ALTERNATE PRICE FOR INSTALLATION OF CABLING, ANTENNAS AND ASSOCIATED EQUIPMENT.

E. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. PROTECT REFRIGERATOR RECEPTACLE FROM NEAREST ADJACENT ABOVE-COUNTER GFCI RECEPTACLE.
2. PROVIDE NEW EPO DEVICE AND WP COVER AT EXISTING LOCATION. EXTEND RACEWAY BACK TO NEW EQUIPMENT AT NEW POOL EQUIPMENT BUILDING. ALL WIRING SHALL BE NEW.
3. NEW RECEPTACLE MOUNTED IN HORIZONTAL SOFFIT FOR TIME CLOCK. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. NEW TELECOM ENTRANCE. COORDINATE WITH OWNER AND OWNER'S TELECOM SERVICE PROVIDER.
5. NEW LOCATION OF EXISTING SECURITY SYSTEM PANEL. ALL NEW TELECOM RACEWAYS SHALL BE ROUTED TO THIS LOCATION.
6. PV EQUIPMENT RELOCATED BY OWNER'S VENDOR. PROVIDE CONCEALED CONDUIT(S) TO THIS LOCATION AS REQUIRED BY PV SYSTEM VENDOR. REFER TO GENERAL NOTES FOR PV VENDOR CONTACT INFORMATION.
7. PROVIDE NEW RACEWAY BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER'S VENDOR) TO CCTV CAMERA.
8. PROVIDE NEW JUNCTION BOX WITH 3/4" RACEWAY AND PULL CORD BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER'S VENDOR) TO WIRELESS ACCESS POINT.
9. PROVIDE NEW JUNCTION BOX WITH 3/4" RACEWAY AND PULL CORD BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER) TO TELECOM OUTLET.
10. NEW JUNCTION/PULL BOXES IN CRAWL SPACE AND ATTIC SPACE (IF NECESSARY) FOR EXTENSION OF EXISTING CIRCUITS TO REMAIN TO NEW PANELBOARDS.
11. PROVIDE 120V CONNECTION TO HAND DRYER. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER'S INSTALLATION DRAWINGS.
12. LOCATE DUPLEX IN CASEWORK. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND CASEWORK INSTALLER.
13. PROVIDE 120V CONNECTION FOR CONVENIENCE OUTLET IN CRAWL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
14. PROVIDE 8"X8"X6" SECURITY JUNCTION BOX AND 1" CONDUIT BACK TO TELECOM AREA/SECURITY PANEL LOCATION.
15. PROVIDE WP JUNCTION BOXES FOR CARD READER AND ELECTRIC STRIKE OR ELECTRIC HINGE TRANSFER AT SECURED DOOR. PROVIDE 3/4" CONDUIT WITH PULL WIRE TO ADJACENT NEW SECURITY JUNCTION BOX. COORDINATE WITH DOOR HARDWARE INSTALLER AND TOWN'S SECURITY VENDOR.
16. PROVIDE OUTLET BOX (WP WHERE OUTDOORS) AND 1" CONDUIT BACK TO TELECOM AREA/SECURITY PANEL LOCATION FOR NEW CCTV CAMERA AT THIS LOCATION. COORDINATE EXACT LOCATION WITH TOWN'S SECURITY VENDOR.
17. PROVIDE 4'X8'X3/4" SHEET OF FIRE-RESISTANT-PLYWOOD (FRP) FOR TELECOM/SECURITY EQUIPMENT IN THIS AREA. PAINT TO MATCH ADJACENT WALL. NEW FOURPLEX RECEPTACLE SHALL BE RECESSED INTO PLYWOOD SO THAT COVERPLATE IS FLUSH ON PLYWOOD.

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COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

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FIRST FLOOR POWER PLAN-BATHHOUSE

E301

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0 2' 4' 8'

PROJECT TRUE

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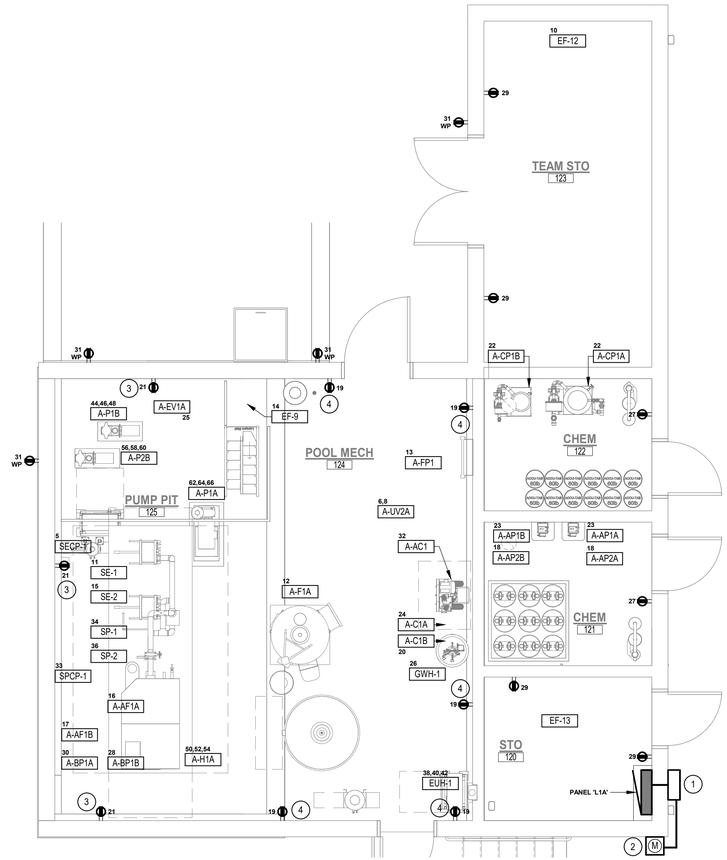

1 E302 **FIRST FLOOR POWER PLAN - AUX. MECH BLDG**

SCALE: 1/4" = 1'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. PER NEC ARTICLE #680.26, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMMON BONDING GRID MADE UP OF BUT NOT LIMITED TO:

1. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING METAL OF THE POOL SHELL, COPING STONES, AND NEW DECK.
2. ALL FORMING SHELLS AND MOUNTING BRACKETS OF A NO-NICHE FIXTURE.
3. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
4. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL WATER CIRCULATING SYSTEM, INCLUDING PUMP MOTORS.
5. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL COVERS, INCLUDING ELECTRIC MOTORS.
6. METAL-SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS THAT ARE WITHIN 5FT. HORIZONTALLY OF THE INSIDE WALLS OF THE POOL, AND WITHIN 12FT. ABOVE THE MAXIMUM WATER LEVEL OF THE POOL, OR FROM ANY DIVING STRUCTURES, AND THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER.

C. ELECTRICAL CONTRACTOR SHALL HAVE A THIRD PARTY PERFORM A SEPARATE BONDING TEST PRIOR TO COVERING THE BONDING JUMPERS AND ANOTHER BONDING TEST AFTER THE BONDING JUMPERS HAVE BEEN COVERED.

D. ALL CONDUIT IN POOL EQUIPMENT AND SUPPORT SPACES SHALL BE GRC OR PVC AND ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE NEMA 4X OR NON- METALLIC, TO RESIST CORROSION. ALL CONDUIT SHALL BE CONCEALED IN WALL AND CEILINGS IN FINISHED SPACES. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. CONFIRM THE LOCATIONS OF ALL AQUATICS FEATURES AND EQUIPMENT WITH THE POOL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS.

F. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

G. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1A'.

H. REFER TO SPECIFICATION SECTION 28 5000 FOR EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM. TESTING AND REQUIRED PATHWAYS SHALL BE INCLUDED AS BASE BID. PROVIDE AN ALTERNATE PRICE FOR INSTALLATION OF ANTENNAS AND ASSOCIATED EQUIPMENT.

I. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. PROVIDE CT CABINET PER XCEL ENERGY STANDARDS.
2. UTILITY COMPANY METER. PROVIDE METER BASE PER XCEL ENERGY STANDARDS.
3. RECEPTACLE MOUNTED AT STANDARD HEIGHT FROM PIT LEVEL.
4. RECEPTACLE MOUNTED AT STANDARD HEIGH FROM FIRST FLOOR LEVEL.

0 2' 4' 8'

PROJECT TRUE

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1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

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FIRST FLOOR POWER PLAN- AUX. MECH BLDG

E302

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GENERAL NOTES

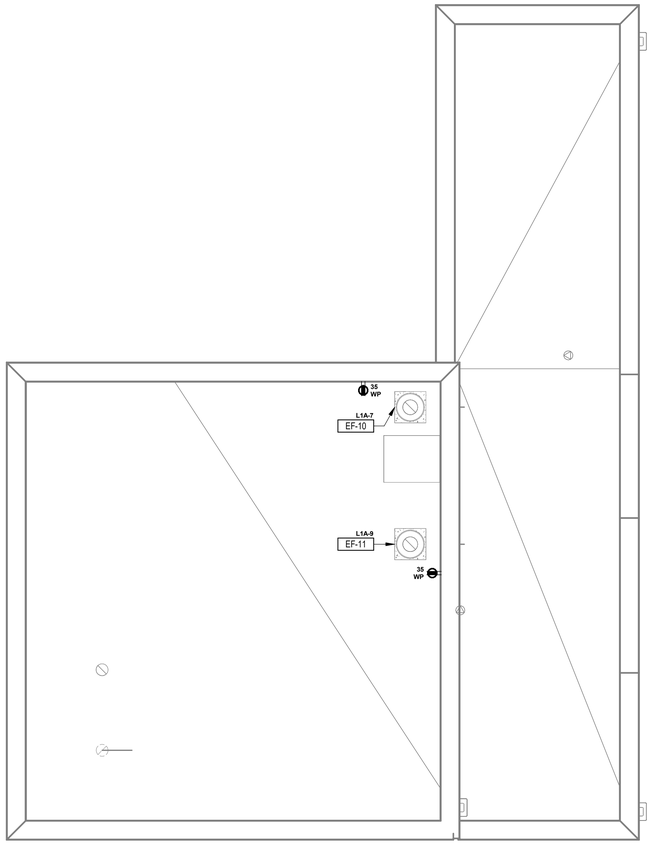
(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1A'.

D. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.



1 E303 **ROOF POWER PLAN - AUX. MECH BLDG**

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
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37135
PROFESSIONAL ENGINEER

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Checked By:	R.H.

Revisions:

Description	Date:

Sheet title:

ROOF POWER PLAN- AUX. MECH BLDG

E303

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GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, EQUIPMENT TAGS OR FIXTURES REFER TO PANEL 'L1B'.

C. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

1 D. UNLESS OTHERWISE NOTED, BUILDING MOUNTED EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTOCELL.

KEY NOTES (#)

1. NEW HEAD-END LIGHTING CONTROL EQUIPMENT. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.



1 / E401 **FIRST FLOOR LIGHTING PLAN - BATHHOUSE**

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 01.09.2026 37135 PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
Checked By:	R.H.

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FIRST FLOOR LIGHTING PLAN - BATHHOUSE

E401

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GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

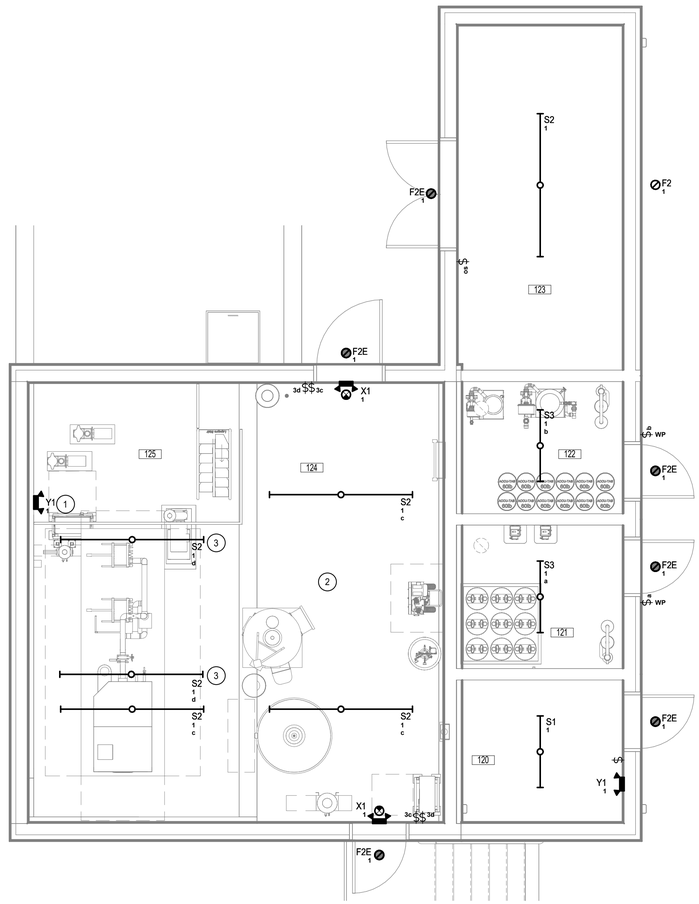
B. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, EQUIPMENT TAGS OR FIXTURES REFER TO PANEL 'L1A'.

C. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

1 D. UNLESS OTHERWISE NOTED, BUILDING MOUNTED EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTOCELL.

KEY NOTES (#)

1. LIGHT FIXTURE MOUNTED AT 7'-0" AFF ABOVE PUMP PIT LEVEL.
2. PROVIDE FIRE ALARM DEVICE(S) AND WIRING BACK TO SECURITY SYSTEM PANEL AS REQUIRED BY TOWN'S SECURITY SYSTEM VENDOR.
3. LIGHT FIXTURE MOUNTED TO CEILING OF PUMP PIT LEVEL.



1 E402 **FIRST FLOOR LIGHTING PLAN - AUX. MECH BLDG**

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

BARKER RINKER SEACAT ARCHITECTURE

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAFFERTY
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
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FIRST FLOOR LIGHTING PLAN - AUX. MECH BLDG

E402

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CONDUCTOR SCHEDULE

(ALUMINUM CONDUCTORS)

NOTES:

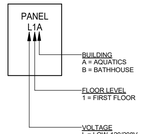
1. "AL" INCLUDED IN THE CONDUCTOR SIZE INDICATES ALUMINUM CONDUCTORS. ALL OTHER CONDUCTORS SHALL BE COPPER.
2. THIS SCHEDULE IS BASED ON THHN/THWN CONDUCTORS IN EMT. WHERE ALTERNATIVE CONDUCTORS OR RACEWAYS ARE USED, THE PROPER SIZING MUST BE CONFIRMED.
3. THE SIZES INDICATED ON THIS SCHEDULE REPRESENT MINIMUM REQUIREMENTS. INCREASES IN CONDUIT SIZES ARE PERMITTED AT THE CONTRACTOR'S DISCRETION, PROVIDED THAT THEY DO NOT RESULT IN INCREASED COST TO THE OWNER.
4. REFER TO DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON CONDUCTORS THAT MAY REQUIRE UP-SIZING TO ACCOMMODATE VOLTAGE DROP.
5. WHERE "G" IS NOT LISTED IN FEDER TAG, NO GROUNDING CONDUCTOR SHALL BE PROVIDED. 1

KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C	KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C	KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C
20.2G	1	2#12, 1#12G	3/4	20.3G	1	3#12, 1#12G	3/4	20.4G	1	4#12, 1#12G	3/4
30.2G	1	2#10, 1#10G	3/4	30.3G	1	3#10, 1#10G	3/4	30.4G	1	4#10, 1#10G	3/4
40.2G	1	2#8, 1#10G	3/4	40.3G	1	3#8, 1#10G	3/4	40.4G	1	4#8, 1#10G	3/4
50.2G	1	2#6, 1#10G	3/4	50.3G	1	3#6, 1#10G	3/4	50.4G	1	4#6, 1#10G	1
60.2G	1	2#4, 1#10G	1	60.3G	1	3#4, 1#10G	1	60.4G	1	4#4, 1#10G	1-1/4
70.2G	1	2#4, 1#8G	1	70.3G	1	3#4, 1#8G	1	70.4G	1	4#4, 1#8G	1-1/4
80.2G	1	2#3, 1#8G	1	80.3G	1	3#3, 1#8G	1-1/4	80.4G	1	4#3, 1#8G	1-1/4
90.2G	1	2#2, 1#8G	1	90.3G	1	3#2, 1#8G	1-1/4	90.4G	1	4#2, 1#8G	1-1/4
100.2G	1	2#1/0AL, 1#6AL G	1-1/4	100.3G	1	3#1/0AL, 1#6AL G	1-1/2	100.4G	1	4#1/0AL, 1#6AL G	1-1/2
110.2G	1	2#1/0AL, 1#4AL G	1-1/4	110.3G	1	3#1/0AL, 1#4AL G	1-1/2	110.4G	1	4#1/0AL, 1#4AL G	2
125.2G	1	2#2/0AL, 1#4AL G	1-1/4	125.3G	1	3#2/0AL, 1#4AL G	2	125.4G	1	4#2/0AL, 1#4AL G	2
150.2G	1	2#3/0AL, 1#4AL G	1-1/2	150.3G	1	3#3/0AL, 1#4AL G	2	150.4G	1	4#3/0AL, 1#4AL G	2-1/2
175.2G	1	2#4/0AL, 1#4AL G	1-/12	175.3G	1	3#4/0AL, 1#4AL G	2	175.4G	1	4#4/0AL, 1#4AL G	2-1/2
200.2G	1	2-250AL, 1#4AL G	2	200.3G	1	3-250AL, 1#4AL G	2-1/2	200.4G	1	4-250AL, 1#4AL G	3
225.2G	1	2-300AL, 1#2AL G	2	225.3G	1	3-300AL, 1#2AL G	2-1/2	225.4G	1	4-300AL, 1#2AL G	3
250.2G	1	2-350AL, 1#2AL G	2-1/2	250.3G	1	3-350AL, 1#2AL G	2-1/2	250.4G	1	4-350AL, 1#2AL G	3
300.2G	1	2-500AL, 1#2AL G	2-1/2	300.3G	1	3-500AL, 1#2AL G	3	300.4G	1	4-500AL, 1#2AL G	3
350.2G	2	2#4/0AL, 1#1AL G	1-1/2	350.3G	2	3#4/0AL, 1#1AL G	2	350.4G	2	4#4/0AL, 1#1AL G	2-1/2
400.2G	2	2-250AL, 1#1AL G	2	400.3G	2	3-250AL, 1#1AL G	2-1/2	400.4G	2	4-250AL, 1#1AL G	2-1/2
450.2G	2	2-300AL, 1#1/0AL G	2	450.3G	2	3-300AL, 1#1/0AL G	2-1/2	450.4G	2	4-300AL, 1#1/0AL G	3
500.2G	2	2-350AL, 1#1/0AL G	2-1/2	500.3G	2	3-350AL, 1#1/0AL G	2-1/2	500.4G	2	4-350AL, 1#1/0AL G	3
600.2G	2	2-500AL, 1#2/0AL G	2-1/2	600.3G	2	3-500AL, 1#2/0AL G	2-1/2	600.4G	2	4-500AL, 1#2/0AL G	3
700.2G	3	2-350AL, 1#3/0AL G	2	700.3G	3	3-350AL, 1#3/0AL G	2-1/2	700.4G	3	4-350AL, 1#3/0AL G	3
800.2G	3	2-400AL, 1#3/0AL G	2-1/2	800.3G	3	3-400AL, 1#3/0AL G	2-1/2	800.4G	3	4-400AL, 1#3/0AL G	3
1000.2G	4	2-350AL, 1#4/0AL G	2-1/2	1000.3G	4	3-350AL, 1#4/0AL G	2-1/2	1000.4G	4	4-350AL, 1#4/0AL G	3
1200.2G	4	2-500AL, 1-250AL G	2-1/2	1200.3G	4	3-500AL, 1-250AL G	3	1200.4G	4	4-500AL, 1-250AL G	3
1600.2G	6	2-400AL, 1-350AL G	2-1/2	1600.3G	6	3-400AL, 1-350AL G	2-1/2	1600.4G	6	4-400AL, 1-350AL G	3
2000.2G	7	2-500AL, 1-400AL G	2-1/2	2000.3G	7	3-500AL, 1-400AL G	3	2000.4G	7	4-500AL, 1-400AL G	3
2500.2G	9	2-500AL, 1-600AL G	3	2500.3G	9	3-500AL, 1-600AL G	3	2500.4G	9	4-500AL, 1-600AL G	3-1/2
3000.2G	10	2-500AL, 1-600AL G	3	3000.3G	10	3-500AL, 1-600AL G	3	3000.4G	10	4-500AL, 1-600AL G	3-1/2
3500.2G	12	2-500AL, 1-800AL G	3	3500.3G	12	3-500AL, 1-800AL G	3	3500.4G	12	4-500AL, 1-750AL G	3-1/2
4000.2G	13	2-500AL, 1-800AL G	3	4000.3G	13	3-500AL, 1-800AL G	3	4000.4G	13	4-500AL, 1-750AL G	3-1/2

GROUND SCHEDULE							
1G	1	1#8G	3/4	5G	1	1#1/0G	3/4
2G	1	1#6G	3/4	6G	1	1#2/0G	3/4
3G	1	1#4G	3/4	7G	1	1#3/0G	3/4
4G	1	1#2G	3/4				

ABBREVIATIONS	
MECH	SEE MECHANICAL EQUIPMENT SCHEDULE
XFMR	SEE TRANSFORMER SCHEDULE

PANEL DESIGNATION



GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT XCEL ENERGY STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTRACTOR'S WORK REGARDING CT CABINET, METER BASE, TRANSFORMER PAD, ETC.

C. ALL EQUIPMENT SHALL BE FULLY RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT INDICATED IN THE SHORT CIRCUIT CALCULATIONS SUMMARY. 1

KEY NOTES (#)

1. STUB (2) EMPTY 4" CONDUITS OUT OF XCEL TRANSFORMER PAD FOR FUTURE INSTALLATION OF NEW XCEL 480V, 3-PHASE TRANSFROMER TO SERVE ELECTRIC POOL HEATERS.
2. PROVIDE CONDUIT TO METER LOCATION AND METER BASE PER XCEL STANDARDS.
3. PROVIDE EXTERIOR, NEMA 3R CT CABINET PER XCEL STANDARDS.
4. GROUND SERVICE PER THE NEC AND THE SPECIFICATIONS.

SHORT CIRCUIT CALCULATIONS SUMMARY

	LENGTH	VOLTAGE	WIRE SIZE	CONDUCTOR MATERIAL (C OR A)	CONDUIT (S OR N)	VOLTAGE CLASS (V)	CONDUCTORS (S OR T)	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	f	M	I(sc Fault)
XCEL XFMR	0	208	--	A	S	600	S	#N/A	--	52,000	#N/A	#N/A	52,000
CT CABINET	52	208	400	A	S	600	S	16,671	3	52,000	0.4502	0.6896	35,857
PANEL L1A	5	208	400	A	S	600	S	16,671	3	35,857	0.0299	0.9710	34,817
PANEL L1B	72	208	250	A	S	600	S	12,122	2	34,817	0.8610	0.5373	18,709

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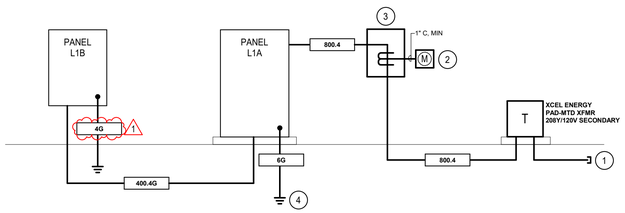

1 E601 **ELECTRICAL ONE-LINE DIAGRAM**

SCALE: NONE

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Date: 01.09.2026
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ELECTRICAL ONE-LINE DIAGRAM

E601

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MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE

GENERAL NOTES:

A. REFER TO MECHANICAL FLOOR PLANS FOR EQUIPMENT QUANTITIES.

B. REFER TO CONDUCTOR SCHEDULE FOR CONDUCTOR AND CONDUIT SIZES. ALL CONDUCTORS SHALL BE COPPER.

C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH DIVISIONS 21, 22 AND 23 CONTRACTOR PRIOR TO BEGINNING ANY ELECTRICAL ROUGH-IN.

D. COORDINATE OVERCURRENT PROTECTION DEVICE AND FEEDER SIZES WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ANY ELECTRICAL ROUGH-IN.

E. WHEN DISCONNECTING MEANS ARE NOT PROVIDED WITH THE EQUIPMENT, PROVIDE WEATHERPROOF DISCONNECT SWITCHES IN NEMA 3R ENCLOSURES FOR ALL EQUIPMENT THAT IS LOCATED ON THE ROOF OR ON THE EXTERIOR OF THE BUILDING.

F. BRANCH CIRCUIT SIZES DO NOT ACCOMMODATE FOR VOLTAGE DROP. REFER TO SPECIFICATIONS FOR INFORMATION ON ALLOWABLE VOLTAGE DROP PERMITTED AND UP-SIZE CONDUCTORS AND CONDUITS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

G. REFER TO "EQUIPMENT CONNECTIONS AND COORDINATION" SPECIFICATION FOR FURTHER REQUIREMENTS.

H. 'STO' INDICATES A MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.

I. 'C&P' INDICATES A CORD AND PLUG CONNECTION.

KEY NOTES:

1. UNIT IS PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH. WHERE THE DISCONNECT SWITCH IS THE FUSIBLE TYPE, PROVIDE A FUSE SIZED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
2. EQUIPMENT IS FED ELECTRICALLY FROM OUTDOOR UNIT. PROVIDE LOCAL DISCONNECT SWITCH FOR INDOOR UNIT AS INDICATED.
3. UNIT INCLUDES 120V, 1 PHASE CONDENSATE PUMP. PROVIDE SEPARTE ELECTRICAL CONNECTION FROM NEAREST CONVENIENCE RECEPTACLE CIRCUIT TO PUMP AND INCLUDE 20A1P DISCONNECT SWITCH WITH THERMAL OVERLOADS AS LOCAL DISCONNECTING MEANS AT PUMP.
4. PROVIDE SWITCHED RECEPTACLE IN ACCESSIBLE LOCATION BELOW SINK AND CONTROL VIA SWITCH INDICATED ON PLAN.
5. COORDINATE GFCI RECEPTACLE LOCATION SO THAT IT IS CONCEALED FROM VIEW, BUT REMAINS READILY ACCESSIBLE. 1

KEY	ITEM	LISTED LOAD			EQUIV. LOAD (VA)	VOLTS	PH	BRANCH CIRCUIT	DISCONNECT	FUSE	KEY NOTES
		HP	MCA/FLA	KW				WIRING AND CONDUIT			
CU-1	SPLIT SYSTEM OUTDOOR UNIT #1 (BATHHOUSE)		38		7904	208	1	60.2G	INTEGRAL	NA	1
EF-1	EXHAUST FAN #1 (MENS RR)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-2	EXHAUST FAN #2 (MENS SHOWER)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-3	EXHAUST FAN #3 (FAMILY CHANGING)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-4	EXHAUST FAN #4 (MECH ROOM)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-5	EXHAUST FAN #5 (ALL SEASON RR)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-6	EXHAUST FAN #6 (WOMENS RR)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-7	EXHAUST FAN #2 (MENS SHOWER)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-8	EXHAUST FAN #8 (GUARDS/FIRST AID)	1/6			528	120	1	20.2G	20A1P STO	NA	1
EF-9	EXHAUST FAN #9 (PUMP ROOM)	1/3			864	120	1	20.2G	INTEGRAL	NA	1
EF-10	EXHAUST FAN #10 (CHEMICAL ROOM)	1/4			696	120	1	20.2G	INTEGRAL	NA	1
EF-11	EXHAUST FAN #11 (CHEMICAL ROOM)	1/4			696	120	1	20.2G	INTEGRAL	NA	1
EF-12	EXHAUST FAN #12 (STORAGE ROOMS)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-13	EXHAUST FAN #13 (STORAGE/ELEC)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EUH-1	ELECTRIC UNIT HEATER #1 (PUMP ROOM)		15.9		5728	208	3	20.3G	30A3P	NA	
EWC-1	ELECTRIC WATER COOLER #1	1/5			600	120	1	20.2G	C&P	NA	5
EWH	ELECTRIC WALL HEATER			2.00	2004	120	1	30.2G	INTEGRAL	NA	1
EWH-1	ELECTRIC WATER HEATER #1			12.00	12000	208	3	50.3G	60A3P	NA	2
EWH-2	ELECTRIC WATER HEATER #2			5.82	5824	208	1	40.2G	60A2P	NA	
FCU-1	SPLIT SYSTEM INDOOR UNIT #1 (BATHHOUSE)		38		7904	208	1	60.2G	60A2P	NA	2,3
GD-1	GARBAGE DISPOSAL #1	1/2			1176	120	1	20.2G	C&P	NA	4
GWH-1	GAS WATER HEATER #1		9.5		1140	120	1	20.2G	20A1P	NA	
PP-1	RECIRCULATION PUMP #1	1/6			528	120	1	20.2G	20A1P STO	NA	
SE-1	SEWAGE EJECTOR #1	1/2			1176	120	1	20.2G	20A1P STO	NA	
SE-2	SEWAGE EJECTOR #2	1/2			1176	120	1	20.2G	20A1P STO	NA	
SECP-1	SEWAGE EJECTOR CONTROL PANEL #1		5		600	120	1	20.2G	20A1P	NA	
SP-1	SUMP PUMP #1	1/2			1176	120	1	20.2G	20A1P STO	NA	
SP-2	SUMP PUMP #2	1/2			1176	120	1	20.2G	20A1P STO	NA	
SPCP-1	SUMP PUMP CONTROL PANEL #1		5		600	120	1	20.2G	20A1P	NA	

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. INTERIOR LUMINAIRES SHALL BE LED WITH A CCT OF 3500K AND A MINIMUM 90 CRI, UON.

B. DIMMING TECHNOLOGY DEFINITIONS: 0-10V (2-WIRE DC, PURPLE/GRAY WIRES); MLV = MAGNETIC LOW VOLTAGE (FORWARD PHASE, LEADING EDGE, TRIAC); ELV = ELECTRONIC LOW VOLTAGE (REVERSE PHASE, TRAILING EDGE); DALI (DIGITAL ADDRESSABLE LIGHTING INTERFACE); DMX (DIGITAL MULTIPLEX); L = LUTRON ECOSYSTEM; NA = NON-DIM.

C. LUMINAIRE FINISHES SHALL BE SELECTED FROM MANUFACTURERS STANDARD (UNLESS NOTED AS A CUSTOM FINISH), AS SELECTED BY THE ARCHITECT DURING SUBMITTAL REVIEW. CONFIRM ALL SELECTIONS IN WRITING PRIOR TO RELEASING ANY ORDER.

D. FOR FIXTURES WHERE MOUNTING HEIGHT IS NOT INDICATED ON THESE ELECTRICAL DRAWINGS, COORDINATE WITH ARCHITECTURAL AND INTERIOR PLANS, ELEVATIONS, AND DETAILS FOR MOUNTING HEIGHTS OF ALL WALL-MOUNT AND PENDANT-MOUNT LUMINAIRES. IF HEIGHT IS NOT INDICATED ON THOSE DOCUMENTS, COORDINATE HEIGHT WITH THE ARCHITECT IN WRITING PRIOR TO ROUGH-IN.

E. RECESS DEPTH/OAH (OVERALL HEIGHT) DIMENSION CORRESPONDS TO THE LUMINAIRE LISTED UNDER THE MANUFACTURER AND MODEL COLUMN. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY THAT LUMINAIRES LISTED UNDER THE ALTERNATE MANUFACTURER COLUMN WILL NOT ENCOUNTER INSTALLATION ISSUES DUE TO A DIFFERENCE IN OVERALL DEPTH OR HEIGHT.

F. LUMINAIRE MOUNTING: CONFIRM EACH CEILING TYPE (GRID WIDTH/TYPE, GYPSUM CEILING, WOOD, METAL, ETC.) BEFORE ORDERING LUMINAIRES. CONTRACTOR IS RESPONSIBLE TO ORDER THE CORRECT MOUNTING HARDWARE (BAR HANGERS, SURFACE-MOUNT KIT, FLANGE KIT, ETC.). PROVIDE FIXTURE THAT HAS THE APPROPRIATE FLANGE FOR THE TYPE OF CEILING IN WHICH IT WILL BE INSTALLED.

G. FURNISH ALL NECESSARY LUMINAIRE COMPONENTS TO FACILITATE A COMPLETE AND FUNCTIONAL LIGHTING SYSTEM. I.E. TRACK LIGHTING AND LED TAPE LIGHT CONNECTORS, DRIVERS, HANGERS, END FEEDS, ETC.

H. STRUCTURALLY SUPPORT LUMINAIRES WEIGHING MORE THAN 50 POUNDS INDEPENDENT FROM THE OUTLET BOX, PER NEC 314.27.

I. LED TAPE INSTALL USING ADHESIVE BACKING: PREP THE MOUNTING SURFACE PER MANUFACTURERS RECOMMENDATIONS. AT MINIMUM, CLEAN WITH 50/50 ALCOHOL MIX AND APPLY 3M PRIMER 94. AFTER INSTALL, APPLY SMALL AMOUNT OF EPOXY UNDER EACH END OF EACH RUN AND PLACE MOUNTING CLIPS EVERY 12".

J. LISTED ALTERNATE MANUFACTURERS: ALTERNATE FIXTURE SHALL PROVIDE EQUAL OR BETTER DELIVERED LUMEN OUTPUT, EFFICACY, DISTRIBUTION, WARRANTY, ETC. THAN THE SPECIFIED MODEL. INCLUSION OF MANUFACTURER NAME IN ALTERNATE MANUFACTURER COLUMN DOES NOT IMPLY THAT ALL MANUFACTURERS LISTED OFFER AN ACCEPTABLE ALTERNATE TO THE SPECIFIED FIXTURE.

K. EC SHALL PROVIDE ALL LIGHTING PLANS, LIGHT FIXTURE SCHEDULE, LIGHTING CONTROL DIAGRAM(S), AND LIGHTING CONTROLS SCHEDULE(S), LIGHTING SPECIFICATIONS, AND RELEVANT LIGHTING DETAILS TO ALL DISTRIBUTORS PROVIDING PRICING.

L. PROVIDE SILICONE FILLED WATERPROOF CONNECTORS FOR ALL EXTERIOR LUMINAIRES.

M. INSTALL LUMINAIRES SO THAT DIFFUSER, LAMP/SOURCE ORIENTATION, OR OTHER DEFINING FEATURE OF ADJACENT FIXTURES IS ALIGNED, WHERE APPLICABLE.

N. REFER TO E800 DRAWINGS FOR CONCRETE BASE DETAIL.

O. REFER TO SPECIFICATIONS FOR FURTHER LIGHTING REQUIREMENTS.

KEY NOTES:

1. PROVIDE NUMBER OF LED ROLLS REQUIRED TO ACCOMODATE LENGTH OF FIXTURE SHOWN ON PLAN. LED STRIP IS FIELD CUTTABLE, PROVIDE NUMBER OF SPECIFIED DIMMABLE DRIVERS REQUIRED TO ACCOMODATE LENGTH OF LED RIBBON SHOWN ON PLAN. FILED VERIFY LENGTH OF FIXTURE REQUIRED PRIOR TO BEGINNING INSTALLATION TO ENSURE THAT FIXTURE IS RUN WITHIN 3" MAXIMUM OF END OF COVE RUN. PROVIDE CHANNEL COVER.
2. EXIT SIGNS: PROVIDE NUMBER OF FACES, MOUNTING TYPE, AND DIRECTIONAL ARROWS AS INDICATED ON THE PLANS.

KEY	DESCRIPTION	LAMPS	(VA)	MANUFACTURER	MODEL	ALTERNATE MANUFACTURER	VOLTAGE	KEY NOTES	MOUNTING	RECESS DEPTH/ OAH
B1-5	2"X5' LINEAR RECESSED, PERIMETER LED, WITH ACRYLIC LENS, LENGTH SHOWN ON PLANS, DIM/0-10V	500 LM/FT	28	AXIS	SCPLED-500-90-35K-FL-S(L)-W-UNV-DP-1	FINELITE, PRUDENTIAL	120		RECESSED	3-1/16"
B1-8	2"X8' LINEAR RECESSED, PERIMETER LED, WITH ACRYLIC LENS, LENGTH SHOWN ON PLANS, DIM/0-10V	500 LM/FT	44	AXIS	SCPLED-500-90-35K-FL-S(L)-W-UNV-DP-1	FINELITE, PRUDENTIAL	120		RECESSED	3-1/16"
C1	COVE LIGHT, TAPE IN LENSED EXTRUSION, 1% DIM/0-10V	346 LM/FT	4	LUMINII	KS-(LENGTH)-HE48MO-35K-HF-A-SA-(FEED); PDCU-D	ACOLYTE, CALI, DIODE LED	120	1	COVE	1" OAH
F1	6" ROUND DOWNLIGHT, 60 DEGREE, WHITE TRIM, 1% DIM/0-10V, WET LOCATION LISTED	1729 LM	20	GOTHAM	EV06SH-35/20-DFR-SOL-MVOLT-EZ1	ALW, COOPER, SIGNIFY	120		RECESSED	7-1/2"
F2	4" ROUND DOWNLIGHT, 60 DEGREE BEAM, WHITE TRIM, 1% DIM/0-10V, DAMP LOCATION LISTED	1684 LM	20	GOTHAM	EV04SH-35/20-DFR-SOL-MVOLT-EZ1	ALW, COOPER, SIGNIFY	120		RECESSED	6-5/8"
F2E	4" ROUND DOWNLIGHT, 60 DEGREE BEAM, WHITE TRIM, 1% DIM/0-10V, DAMP LOCATION LISTED, WITH INTEGRAL EMERGENCY BATTERY PACK	1684 LM	20	GOTHAM	EV04SH-35/20-DFR-SOL-MVOLT-EZ1-ELR	ALW, COOPER, SIGNIFY	120		RECESSED	6-5/8"
K1	INDIRECT LED WALL MOUNTED FLOOD LIGHT, 1% DIM/0-10V	2446 LM	20	LIGMAN LIGHTING	UVK-30021-20W-W-W40-01-120/277V-DIM	COLE LIGHTING, IN-PERFORMANCE, KIM LIGHTING	120		SURFACE - WALL	4.3" OAH
P1	SINGLE HEAD, LED POLE, TYPE IV DISTRIBUTION, ROUND POLE, 4000K CCT	25184 LM	154	SIGNIFY	P26-A07-840-T4M-AR1-UNV-010V-BK	COOPER, LITHONIA	208		POLE	15'-0"
P2	SINGLE HEAD, LED POLE, TYPE V DISTRIBUTION, ROUND POLE, 4000K CCT	26727 LM	154	SIGNIFY	P26-A07-840-T5M-AR1-UNV-010V-BK	COOPER, LITHONIA	208		POLE	15'-0"
S1	4' LENSED STRIP, 10% DIM/0-10V	4611 LM	30	ILP	DSC4-4L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE	3.4" OAH
S2	8' LENSED STRIP, 10% DIM/0-10V	6257 LM	40	ILP	DSC8-8L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE	3.4" OAH
S3	4' INDUSTRIAL STRIP WITH FIBERGLASS HOUSING	4000 LM	30	COOPER	4VT2-LD5-4000-DR-UNV-L835-CD1-WL-SSL	HUBBELL, KENALL, LITHONIA	120		SURFACE	5-7/8" OAH
U1	UNDERCABINET LED TAPE, IN AL. EXTRUSION WITH FROSTED DIFFUSER, 1% DIM/0-10V	346 LM/FT	4	LUMINII	KS-(LENGTH)-HE48MO-35K-HF-A-SA-(FEED); PDCU-D	ACOLYTE, CALI, DIODE LED	120	1	SURFACE	1" OAH
W1	2' LED WRAP, 10% DIM/0-10V	2294 LM	16	ILP	DSC2-2L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE - WALL	3.4" OAH
X1	EXIT/EMERGENCY LIGHT COMBO: POLYCARBONATE, UNIVERSAL MOUNTING, GREEN LETTERING, WHITE HOUSING, WITH INTEGRAL BATTERY BACK-UP, SELF DIAGNOSTICS	LED INCLUDED	5	SURE-LITES	LPXC-50-SD	WILLIAMS, HUBBELL, LITHONIA, SIGNIFY	120	2	SURFACE	7-1/2" OAH
X2	EXIT SIGN: POLYCARBONATE, UNIVERSAL MOUNTING, GREEN LETTERING, WHITE HOUSING, WITH INTEGRAL BATTERY BACK-UP, SELF DIAGNOSTICS	LED INCLUDED	5	SURE-LITES	LPX-7-G-SF	WILLIAMS, HUBBELL, LITHONIA, SIGNIFY	120	2	SURFACE	8-11/16" OAH
Y1	EMERGENCY LED BUG-EYE LIGHTING UNIT, SELF DIAGNOSTICS	LED INCLUDED	5	WILLIAMS	EMER/LED/WHT-SDT-D	COOPER, HUBBELL, LITHONIA, SIGNIFY	120		SURFACE	4-9/16" OAH

1 DELETED FIXTURE(S): TYPE W2

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
RH
ENGINEERING/TECHNOLOGY/LIGHTING
reesehackman.com

Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAVENDER
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number: 2025.009
Issue: 100% PERMIT SET
Date: 01.09.2026
Drawn By: R.H.
Checked By: R.H.

Revisions:

Description	Date:
ADDENDUM #1	02.25.2026
ADDENDUM #2	04.13.2026

Sheet title:
ELECTRICAL SCHEDULES

E701

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AQUATICS EQUIPMENT CONNECTIONS SCHEDULE

GENERAL NOTES:

A. BOND AND GROUND ALL AQUATICS EQUIPMENT, UNDERWATER POOL LIGHTS, POOL REINFORCING STEEL. ACTIVITIES DECK EQUIPMENT AND ALL OTHER EMBEDDED METALLIC ITEMS IN COMPLIANCE WITH THE NEC AND ALL LOCAL ELECTRICAL CODES. PROVIDE AN EQUIPOTENTIAL BONDING GRID IN POOL DECK PER N.E.C. 680.26.

B. HARD WIRE EXHAUST FANS AND RELATED CONTROLS IN THE POOL EQUIPMENT ROOMS AND STORAGE ROOMS FOR CHLORINE AND ACID CHEMICALS. COORDINATE THE ELECTRICAL REQUIREMENTS WITH THE MECHANICAL AND POOL CONTRACTORS.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING BETWEEN AQUATICS EQUIPMENT PER THE MANUFACTURER'S WIRING DIAGRAMS. AQUATICS EQUIPMENT AND PUMPS ARE BY THE POOL CONTRACTOR.

D. UNLESS OTHERWISE NOTED, POOL CONTRACTOR SHALL FURNISH ALL MOTOR STARTERS AND/OR VFDS AND ELECTRICAL CONTRACTOR SHALL INSTALL AND POWER ALL MOTOR STARTERS AND/OR VFDS. COORDINATE EXACT REQUIREMENTS WITH MOTOR MANUFACTURERS AND POOL CONTRACTOR. PHASE LOSS AND PHASE REVERSAL PROTECTION SHALL BE INCLUDED WITH ALL STARTERS AND/OR VFDS. COORDINATE THE REQUIRED NUMBER OF CONTACTS WITH POOL EQUIPMENT INSTALLER PRIOR TO INSTALLING STARTER.

E. EC SHALL PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT OPERATING AT 120V OR GREATER. CONNECTIONS TO PUMPS SHALL UTILIZE AT LEAST 18" OF LIQUIDTIGHT, FLEXIBLE, METALLIC CONDUIT, LFMC. REFER TO AQUATICS DETAILS AND DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F. REFER TO CONDUCTOR SCHEDULE FOR SIZE OF CONDUCTORS AND CONDUITS.

G. BRANCH CIRCUIT SIZES DO NOT ACCOMMODATE FOR VOLTAGE DROP. REFER TO SPECIFICATIONS FOR INFORMATION ON ALLOWABLE VOLTAGE DROP PERMITTED AND UP-SIZE CONDUCTORS AND CONDUITS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

H. REFER TO "EQUIPMENT CONNECTIONS AND COORDINATION" SPECIFICATION FOR FURTHER REQUIREMENTS.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKS AND/OR LINE-VOLTAGE CONTROL WIRING AS DESCRIBED IN THIS SCHEDULE AND INDICATED ON POOL EQUIPMENT CONTROLS DETAILS ON AQUATICS DRAWINGS. COORDINATE WITH POOL EQUIPMENT INSTALLER.

J. ALL ELECTRICAL EQUIPMENT FURNISHED IN POOL MECHANICAL, POOL STORAGE AND CHEMICAL STORAGE ROOMS SHALL BE STAINLESS STEEL OR NON-METALLIC, WET LOCATION LISTED, TO RESIST CORROSION FROM POOL CHEMICALS.

K. LOCATE EMERGENCY SHUT-OFF PUSH-BUTTONS WHERE INDICATED ON THE DRAWINGS. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN. INCLUDE CLEAR FLIP-UP COVER.

L. PROVIDE SUBMITTALS ON ALL ITEMS LISTED IN THIS SCHEDULE THAT ARE FURNISHED BY THE ELECTRICAL CONTRACTOR.

M. REFER TO CONTROL SCHEMATIC DIAGRAMS ON AQUATICS (PL) DRAWINGS. EC SHALL PROVIDE ALL WIRING AT 120V OR GREATER, AS INDICATED ON THOSE DRAWINGS.

N. EC SHALL FURNISH AND INSTALL STARTERS AS REQUIRED FOR ALL PUMPS/MOTORS NOT ALREADY FURNISHED WITH A STARTER OR VFD.

KEY NOTES:

1. POOL CONTRACTOR SHALL FURNISH VARIABLE FREQUENCY DRIVE (VFD). ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE VARIABLE FREQUENCY DRIVES (VFD), INCLUDING FINAL CONNECTION TO PUMP. REFER TO AQUATICS DOCUMENTS FOR SPECIFICATIONS ON VARIABLE FREQUENCY DRIVES AND COORDINATE SPECIFIC REQUIREMENTS WITH POOL CONTRACTOR AND EQUIPMENT SUPPLIER PRIOR TO BID. IF VFD INCLUDES A LISTED MEANS TO DISCONNECT ALL CONDUCTORS TO THE MOTOR AND IS WITHIN SIGHT OF THE MOTOR PER THE NEC, A SEPARATE DISCONNECT SWITCH SHALL NOT BE REQUIRED.
2. PROVIDE A 3-POSITION SELECTOR SWITCH, LABELED "OFF-BACKWASH-FILTRATION" NEAR THE FILTRATION PUMP.
3. PROVIDE REMOTE START/STOP STATION LOCATED IN LIFEGUARD OFFICE FOR EACH FEATURE PUMP. INCLUDE A CLEAR, LOCKABLE ENCLOSURE OVER EACH START/STOP BUTTON. COORDINATE LOCATION AND DETAILS WITH AQUATICS CONTRACTOR AND OWNER.
4. PROVIDE (1) 20A DEDICATED CIRCUIT TO THE FILTER CONTROL PANEL (MOUNTED ON FILTER TANK).
5. PROVIDE 2#12, 1#12G, 1/2"C FROM THE FILTER CONTROL PANEL TO THE CHEMICAL CONTROLLER. PROVIDE 1/2"C FROM THE FILTER CONTROL PANEL TO THE UV CONTROL CABINET. PROVIDE 1/2"C FROM THE FILTER CONTROL PANEL TO THE FILTRATION PUMP VFD.
6. CHEMICAL CONTROLLER SHALL POWER THE CHLORINE FEED RELAYS, CO2 PH FEED RELAYS AND AUTOFILL WATER LEVEL CONTROL VALVES. PROVIDE INTERNET CONNECTION.
7. PROVIDE DUPLEX RECEPTACLE AND HARDWIRE IT DIRECTLY TO THE PH FEED RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE RECEPTACLE. LABEL EACH CHEMICAL FEEDER OUTLET ACCORDINGLY, INCLUDING WHICH POOL IT FEEDS.
8. PROVIDE DUPLEX RECEPTACLE AND HARDWIRE IT DIRECTLY TO THE CHLORINE FEED RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE RECEPTACLE. LABEL EACH CHEMICAL FEEDER OUTLET ACCORDINGLY, INCLUDING WHICH POOL IT FEEDS.
9. HARDWIRE AUTOFILL'S WATER LEVEL CONTROL VALVE DIRECTLY TO THE AUTOFILL RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE VALVE.
10. PROVIDE A MAGNETIC MOTOR STARTER WITH A MANUAL ON/OFF SWITCH. MOTOR STARTER SHALL HAVE LOW VOLTAGE CAPABILITY TO CONNECT TO HAND/OFF/AUTO SWITCH FOR FILTRATION PUMP.
11. PROVIDE MINIMUM 1-1/2" CONDUIT FOR LAMP POWER CORD FROM CONTROL CABINET TO CHAMBER (LAMP POWER CORDS PROVIDED WITH UV SYSTEM). EC TO INSTALL BOTH CONDUIT AND POWER CORD. PROVIDE MINIMUM OF 1" CONDUIT FOR LOW VOLTAGE/SIGNAL CABLES FROM CONTROL CABINET TO CHAMBER (PROVIDED WITH UV SYSTEM).
12. CONTROL PANEL SHAL FEED (2) CIRCULATION PUMPS. LOCATE DISCONNECT SWITCH NEAR DOOR AND PROVIDE PERMANET LABEL ON DISCONNECT. PROVIDE EPO AT EACH DOOR INTO SPACE IN COMPLIANCE WITH ASME CSD-1 AND NFPA-70.
13. OUTLET WILL PROVIDE POWER TO THE PLUG LABELED "120 VOLT" FOR BOOSTER PUMP THAT IS INTEGRAL TO CHLORINE FEED SYSTEM. LABLE "CHLORINE FEED SYSTEM POWER".
14. LOCATE DEVICE +18" AFF NEAR THE CO2 FEED EQUIPMENT.
15. PROVIDE EMERGENCY SHUTDOWN BUTTON TO SHUT OFF ALL PUMPS INDICATED. LOCATE ON +44" AFF POOL DECK AT LEAST 5'-0" AWAY FROM AND WITHIN SIGHT OF THE POOL. INCLUDE AUDIBLE AND VISUAL ALARM ON EPO AND COMPLY WITH NEC 680. CONFIRM LOCATION OF EPO WITH OWNER PRIOR TO ROUGH-IN.

KEY	ITEM	LISTED LOAD HP	LISTED LOAD MCA	LISTED LOAD KW	EQUIV. LOAD (VA)	VOLTS	PH	BRANCH CIRCUIT WIRING AND CONDUIT	DISCONNECT	KEY NOTES
A-AC1	AIR COMPRESSOR #1	2			2880	120	1	50.2G	STARTER	10
A-AF1A	AUTOFILL - LAP POOL		15		1800	120	1	20.2G	20A1P	9
A-AF1B	AUTOFILL - SPLASH PLAY POOL		15		1800	120	1	20.2G	20A1P	9
A-AP1A	C1A CHEMICAL FEEDER - CO2 - LAP POOL		1.7		204	120	1	20.2G	C&P	7
A-AP1B	C1B CHEMICAL FEEDER - CO2 - SPLASH PLAY POOL		1.7		204	120	1	20.2G	C&P	7
A-AP2A	C1A CHEMICAL FEEDER - ACID - LAP POOL		1.7		204	120	1	20.2G	C&P	7
A-AP2B	C1B CHEMICAL FEEDER - ACID - SPLASH POOL		1.7		204	120	1	20.2G	C&P	7
A-BP1A	CHEMICAL BOOSTER PUMP - LAP POOL	1.5			2880	120	1	30.2G	C&P	13
A-BP1B	CHEMICAL BOOSTER PUMP - SPLASH PLAY POOL	1.5			2880	120	1	30.2G	C&P	13
A-C1A	CHEMICAL CONTROLLER - LAP POOL		15		1800	120	1	20.2G	20A1P	6
A-C1B	CHEMICAL CONTROLLER - SPLASH PLAY POOL		15		1800	120	1	20.2G	20A1P	6
A-CP1A	C1A CHEMICAL FEEDER - CHLORINE RM - LAP POOL		1.7		204	120	1	20.2G	C&P	8
A-CP1B	C1B CHEMICAL FEEDER - CHLORINE RM - SPLASH PLAY POOL		1.7		204	120	1	20.2G	C&P	8
A-EV1A	DIGITAL POSITION VALVE - LAP POOL		15		1800	120	1	20.2G	20A1P	
A-F1A	FILTER CONTROL PANEL - LAP POOL		12		1440	120	1	20.2G	20A1P	4,5
A-FP1	FLOW METER POWER SUPPLY		12		1440	120	1	20.2G	20A1P	
A-H1A	POOL WATER HEATER CONTROL PANEL		30		10808	208	3	40.3G	60A3P	12
A-P1A	FILTRATION PUMP - LAP POOL	20			22373	208	3	100.3G	100A3P	1
A-P1B	FILTRATION PUMP - SPLASH PLAY POOL	5			6305	208	3	40.3G	60A3P	1,2
A-P2B	ACTIVITY PUMP - SPLASH PLAY POOL	5			6305	208	3	40.3G	60A3P	1,3
A-UV2A	SPLASH PLAY POOL UV - CONTROL CABINET			1.5	1500	208	1	20.2G	30A2P	11

PANEL SCHEDULE
L1A

PROJECT:	SUPERIOIR NORTH POOL	VOLTAGE L-L / L-N:	208/120
JOB NO.:	2025003	TYPE:	3PH, 4W
LOCATION:	STO 120	SHORT CIRCUIT RATING:	REFER TO ELECTRICAL ONE-LINE DIAGRAM
MINIMUM BUS CAPACITY:	800	MOUNTING:	SURFACE
MAIN OVERCURRENT DEVICE:	800	COMMENTS:	
DESIGN CAPACITY:	800		

CKT NO.	DESCRIPTION	DEVICE AMPS	POLE	A (VA)		B (VA)		C (VA)		POLE	DEVICE AMPS	DESCRIPTION	CKT NO.
1	LTG - MECH BUILDING	20	1	487	200					1	15	EF-13 SPACE	2
3	LTG - POOL UNDERWATER	20	1			1400	--			1	--	BUSSED SPACE	4
5	SECP-1 - SEWAGE EJECTOR CONTROL PANEL #1	20	1					600	750	2	20	A-UV2A - SPLASH PLAY POOL UV - CONTROL CABINET	6
7	EF-10 - EXHAUST FAN #10 (CHEMICAL ROOM)	20	1	696	750					--	--	--	8
9	EF-11 - EXHAUST FAN #11 (CHEMICAL ROOM)	20	1			696	528			1	20	EF-12 - EXHAUST FAN #12 (STORAGE ROOMS)	10
11	SE-1 - SEWAGE EJECTOR #1	20	1					1176	1440	1	20	A-F1A - FILTER CONTROL PANEL - LAP POOL	12
13	A-FP1 - FLOW METER POWER SUPPLY	20	1	1440	864					1	20	EF-9 - EXHAUST FAN #9 (PUMP ROOM)	14
15	SE-2 - SEWAGE ELECTOR #2	20	1			1176	1800			1	20	A-AF1A - AUTOFILL LAP POOL	16
17	A-AF1B - AUTOFILL SPLASH PLAY POOL	20	1					1800	408	1	20	A-AP2A, A-AP2B - C1A, C1B CHEM FEEDER - CHEM ROOM	18
19	REC - POOL MECH	20	1	900	1800					1	20	A-C1B - CHEMICAL CONTROLLER - LAP POOL	20
21	REC - PUMP PIT	20	1			540	408			1	20	A-CP1A, A-CP2B - C1A, C1B CHEM FEEDERS CHEM ROOM	22
23	A-AP1A, A-AP1B - C1A, C1B CHEM FDRS - CHEM ROOM	20	1					408	1800	1	20	A-C1A - AIR COMPRESSOR #1	24
25	A-EV1A - DIGITAL POSITION VALVE - LAP POOL	20	1	1800	1140					1	20	GWH-1	26
27	REC - CHEMICAL ROOMS	20	1			360	2880			1	30	A-BP1B - CHEM BOOSTER PUMP - SPLASH PLAY POOL	28
29	REC - STORAGE & ELECTRICAL ROOM	20	1					720	2880	1	30	A-BP1A - CHEM BOOSTER PUMP - LAP POOL	30
31	REC - EXTERIOR	20	1	720	2880					1	40	A-AC1 - AIR COMPRESSOR #1	32
33	SPCP-1	20	1			600	1176			1	20	SP-1	34
35	REC - ROOF	20	1					360	1176	1	20	SP-2	36
37	LTG - CONTROL EQUIPMENT	20	1	180	1909					3	30	EUH-1 ELECTRIC UNIT HEATER (PUMP ROOM)	38
39	SPARE	20	1			0	1909			--	--	--	40
41	SPARE	20	1					0	1909	--	--	--	42
43	SPARE	20	1	0	2102					3	30	A-P1B - FILTRATION PUMP - SPLASH PLAY POOL	44
45	SPARE	20	1			0	2102			--	--	--	46
47	SPARE	20	1					0	2102	--	--	--	48
49	SPARE	20	1	0	3603					3	60	A-H1A - POOL WATER HEATER CONTROL PANEL	50
51	SPARE	20	1			0	3603			--	--	--	52
53	SPARE	20	1					0	3603	--	--	--	54
55	BUSSED SPACE	--	1	--	2102					3	60	A-P2B - ACTIVITY PUMP - SPLASH PLAY POOL	56
57	BUSSED SPACE	--	1			--	2102			--	--	--	58
59	BUSSED SPACE	--	1					--	2102	--	--	--	60
61	BUSSED SPACE	--	1	--	7458					3	100	A-P1A - FILTRATION PUMP - LAP POOL	62
63	BUSSED SPACE	--	1			--	7458			--	--	--	64
65	BUSSED SPACE	--	1					--	7458	--	--	--	66
67	BUSSED SPACE	--	1	--	21377					3	400	PANEL 'L1B'	68
69	BUSSED SPACE	--	1			--	25532			--	--	--	70
71	BUSSED SPACE	--	1					--	21332	--	--	--	72
		TOTAL LOAD:		52406 VA		54269 VA		52022 VA					
		TOTAL AMPS:		437.204 A		452.733 A		433.519 A					

LOAD CLASSIFICATION	CONNECTED	D.F.	EST. DEMAND		PANEL TOTALS
LIGHTING LOAD:	4401 VA	125%	5502 VA		
RECEPTACLE LOAD:	9900 VA	FIRST 10000VA AT 100%, REMAINING AT 50%	9900 VA		TOTAL CONN. LOAD: 158697 VA
LARGEST MOTOR:		---	---		TOTAL EST. DEMAND: 159797 VA
MOTOR LOAD:		LARGEST AT 125%, REMAINING AT 100%			TOTAL CONN.: 440 A
KITCHEN EQUIPMENT:					TOTAL EST. DEMAND: 444 A
EQUIPMENT:	118616 VA	100%	118616 VA		
HEATING:					
ELEVATOR:					
SUB-FED PANEL:					

NOTES:

PANEL SCHEDULE
L1B

PROJECT:	SUPERIOIR NORTH POOL	VOLTAGE L-L / L-N:	208/120
JOB NO.:	2025003	TYPE:	3PH, 4W
LOCATION:	MECH/ELEC 105	SHORT CIRCUIT RATING:	REFER TO ELECTRICAL ONE-LINE DIAGRAM
MINIMUM BUS CAPACITY:	400	MOUNTING:	SURFACE
MAIN OVERCURRENT DEVICE:	400	COMMENTS:	
DESIGN CAPACITY:	400		

CKT NO.	DESCRIPTION	DEVICE AMPS	POLE	A (VA)		B (VA)		C (VA)		POLE	DEVICE AMPS	DESCRIPTION	CKT NO.
1	LTG - POOL DECK LTG	20	2	539	2000					2	40	LTG - TENNIS COURT	2
3	--	--	--			539	2000			--	--	--	4
5	LTG - PARKING LOT	20	2					1500	2000	2	40	LTG - TENNIS COURT	6
7	--	--	--	500	2000					--	--	--	8
9	LTG - EXTERIOR	20	1			607	2000			2	40	LTG - TENNIS COURT	10
11	LTG - WEST RESTROOMS AND LOBBY	20	1					364	2000	--	--	--	12
13	LTG - ELEC, WOMENS RR, AND GUARD ROOM	20	1	466	2000					2	40	LTG - TENNIS COURT	14
15	REC - TIMECLOCK	20	1			360	2000			--	--	--	16
17	FAMILY CHANGING HAND DRYER	20	1					1150	0	2	50	PV - INVERTER	18
19	ALL SEASON HAND DRYER	20	1	1150	0					--	--	--	20
21	MENS HAND DRYER	20	1			1150	2912			2	40	EWH-2	22
23	MENS HAND DRYER	20	1					1150	2912	--	--	--	24
25	WOMENS HAND DRYER	20	1	1150	3952					2	60	CU-1	26
27	WOMENS HAND DRYER	20	1			1150	3952			--	--	--	28
29	REC - MECH ELEC QUAD	20	1					360	2004	1	30	EWH	30
31	GUARD REFRIGERATOR	20	1	1080	600					1	20	EWC-1	32
33	GUARD REFRIGERATOR	20	1			1080	1176			1	20	GARBAGE DISPOSAL	34
35	REC - GUARD	20	1					720	528	1	20	PP-1	36
37	REC - GUARD	20	1	360	500					1	20	SECURITY PANEL	38
39	REC - POOL DECK	20	1			180	900			1	20	REC - ALL SEASON & WOMENS	40
41	REC - POOL DECK	20	1					180	360	1	20	REC - MECH ELEC	42
43	REC - EXTERIOR	20	1	720	0					1	20	SPARE	44
45	REC - MENS AND FAMILY CHANGING	20	1			900	0			1	20	SPARE	46
47	REC - CONTROL DESK	20	1					900	0	1	20	SPARE	48
49	REC - LOBBY	20	1	360	4000					3	45	EWH-1	50
51	EXHAUST FANS 1-3	20	1			626	4000			--	--	--	52
53	EXHAUST FANS 4-8	20	1					1204	4000	--	--	--	54
		TOTAL LOAD:		21377 VA		25532 VA		21332 VA					
		TOTAL AMPS:		178.195 A		212.827 A		177.765 A					

2

LOAD CLASSIFICATION	CONNECTED	D.F.	EST. DEMAND		PANEL TOTALS
LIGHTING LOAD:	2515 VA	125%	3144 VA		
RECEPTACLE LOAD:	6300 VA	FIRST 10000VA AT 100%, REMAINING AT 50%	6300 VA		TOTAL CONN. LOAD: 68241 VA
LARGEST MOTOR:		---	---		TOTAL EST. DEMAND: 66869 VA
MOTOR LOAD:		LARGEST AT 125%, REMAINING AT 100%			TOTAL CONN.: 189 A
KITCHEN EQUIPMENT:					TOTAL EST. DEMAND: 191 A
EQUIPMENT:	34026 VA	100%	34026 VA		
HEATING:					
ELEVATOR:					
SUB-FED PANEL:					

NOTES:

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Superior, CO North Pool
1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
Checked By:	R.H.

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Description	Date:
ADDENDUM #2	04.13.2026

Sheet title:
ELECTRICAL SCHEDULES

E702

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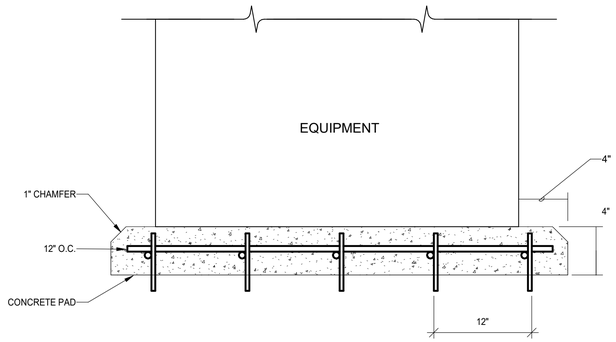


HOUSEKEEPING PAD DETAIL

3 / E801 — SCALE: NONE

NOTES:

A. WHERE FIELD CONDITIONS PREVENT INSTALLATION OF LIGHT SWITCHES PER DETAILS, VERIFY SWITCH LOCATION WITH ENGINEER.

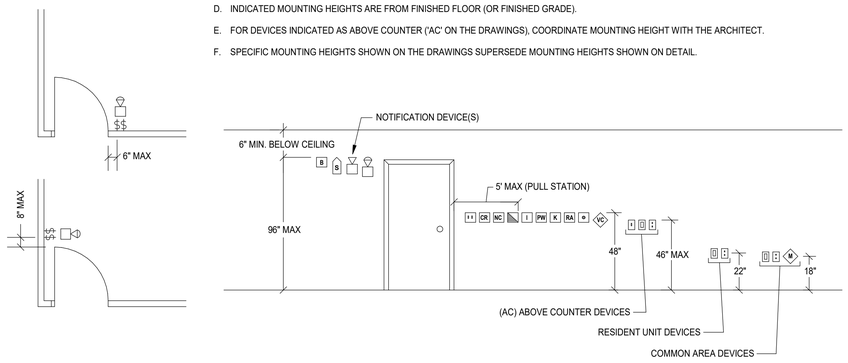
B. COORDINATE LOCATION OF DEVICES RELATIVE TO DOOR JAMB WITH ARCHITECTURAL TRIM DETAILS PRIOR TO ROUGH-IN.

C. COORDINATE AC (ABOVE COUNTER) DEVICE HEIGHT WITH ARCHITECT AND INTERIOR ELEVATIONS.

D. INDICATED MOUNTING HEIGHTS ARE FROM FINISHED FLOOR (OR FINISHED GRADE).

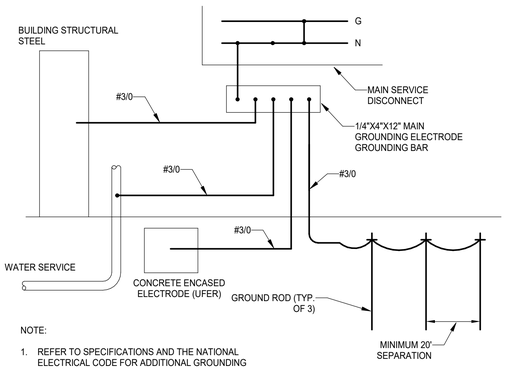
E. FOR DEVICES INDICATED AS ABOVE COUNTER ('AC' ON THE DRAWINGS), COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT.

F. SPECIFIC MOUNTING HEIGHTS SHOWN ON THE DRAWINGS SUPERSEDE MOUNTING HEIGHTS SHOWN ON DETAIL.



DEVICE MOUNTING LOCATION DETAIL

1 / E801 — SCALE: NONE

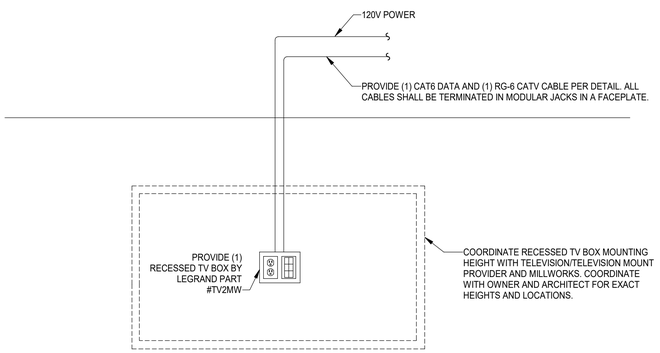


NOTE:

1. REFER TO SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE FOR ADDITIONAL GROUNDING REQUIREMENTS.

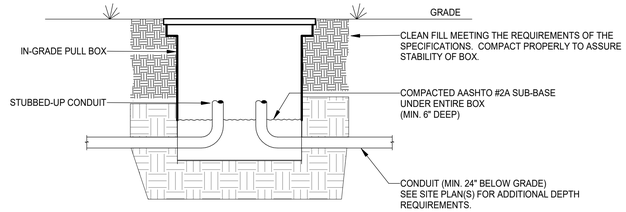
GROUNDING ELECTRODE DETAIL

6 / E801 — SCALE: NONE



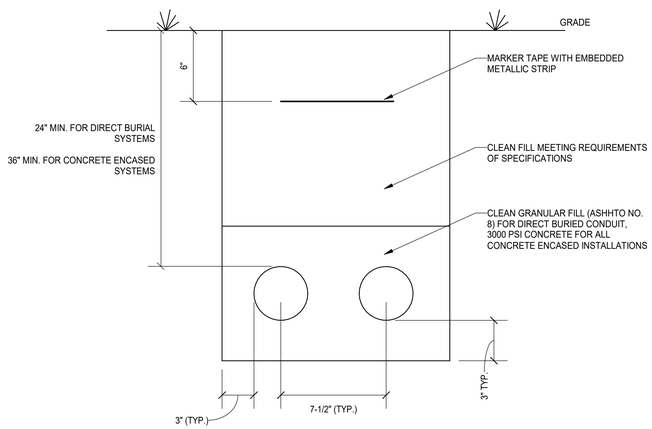
WALL MOUNTED TV PROVISIONS

7 / E801 — SCALE: NONE



IN-GRADE HAND HOLE INSTALLATION DETAIL

4 / E801 — SCALE: NONE



NOTES:

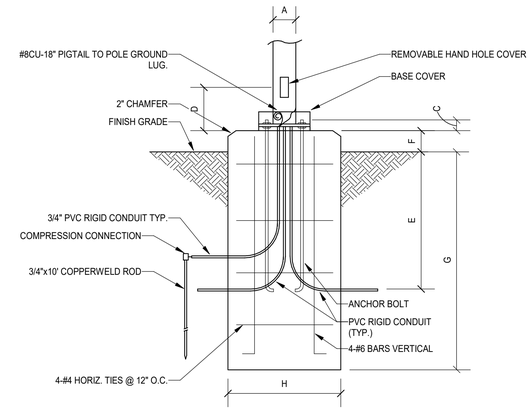
A. THIS DETAIL INDICATES SPACING AND INSTALLATION PARAMETERS. THE ACTUAL QUANTIT OF CONDUITS ARE AS INDICATED ON THE ELECTRICAL ONE-LINE DIAGRAM.

B. REFER TO E601 AND SITE PLANS FOR SYSTEMS REQUIRING CONCRETE ENCASED FEEDER.

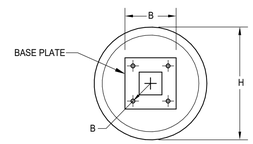
C. REFER TO SITE PLANS FOR ADDITIONAL BURIAL DEPTH INFORMATION.

UNDERGROUND CONDUIT DETAIL

5 / E801 — SCALE: NONE



ELEVATION



TOP VIEW

POLE KEY	POLE HEIGHT	A	ANCHOR BOLT DATA B	SIZE	C	D	E	F	G	H
P1	15'-0"	ROUND	BY MANUFACTURER			12"	24"	2"	60"	24"
P2	15'-0"	ROUND	BY MANUFACTURER			12"	24"	2"	60"	24"

POLE BASE DETAIL

2 / E801 — SCALE: NONE

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 01.09.2026 37135 PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
Checked By:	R.H.

Revisions:

Description	Date:

Sheet title:

ELECTRICAL DETAILS

E801

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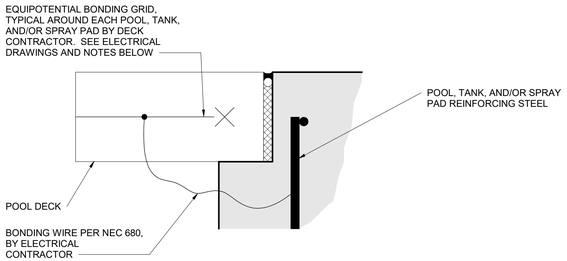
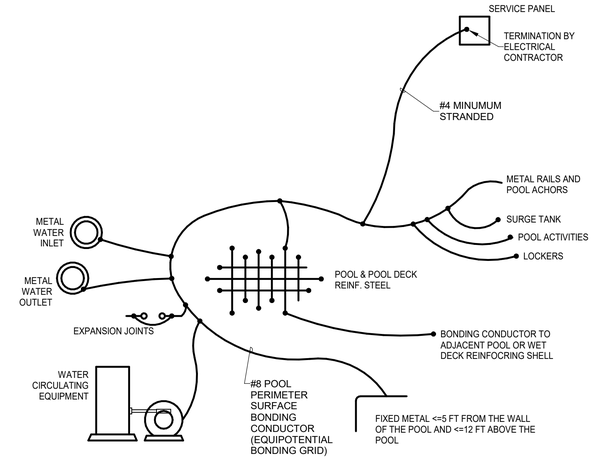


NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   - 3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   - 3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   - 3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

3 / E802 **POOL EQUIPOTENTIAL BONDING GRID DETAIL**

SCALE: NONE

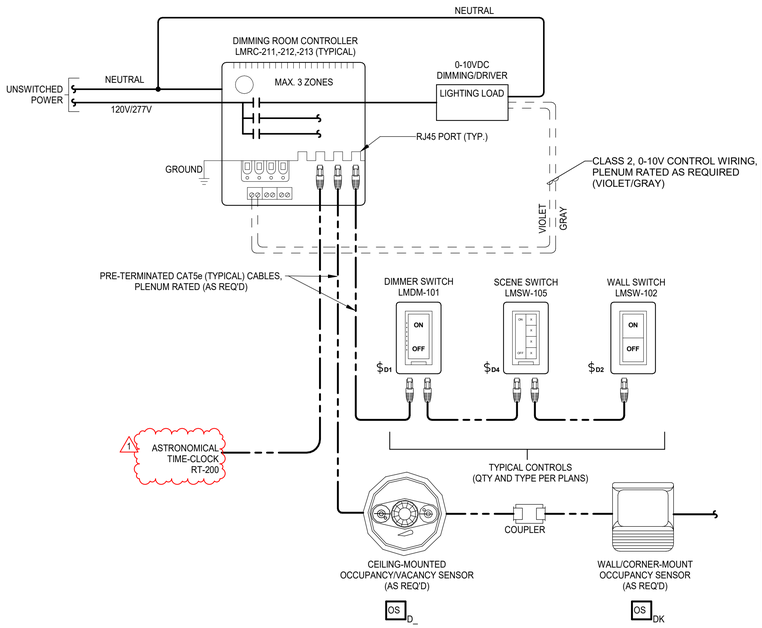


NOTES:

1. NOT ALL ITEMS ARE SHOWN. SEE FLOOR PLANS.
2. INSTALLATION SHALL CONFORM TO NEC ARTICLE 680.
3. ALL GROUNDING CONNECTIONS SHALL BE CADWELD OR CLAMP AS STATED PER THE NEC.
4. ALL GROUND WIRE SHALL BE #8 SOLID COPPER UNLESS OTHERWISE NOTED.
5. GROUND ALL METAL DEVICES WITHIN 5' OF THE EDGE OF THE POOLS AND METAL ITEMS LOCATED WITHIN 12' VERTICALLY AND 5' HORIZONTALLY OF THE SLIDE TOWERS.

1 / E802 **POOL EQUIPMENT BONDING DETAIL**

SCALE: NONE



GENERAL NOTES

(THIS DETAIL ONLY)

A. PROVIDE WATTSTOPPER 'DLM' SYSTEM OR APPROVED FUNCTIONALLY EQUIVALENT SYSTEM BY SENSOR SWITCH NLIGHT OR LUTRON ENERGY SAVR NODE.

B. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS, A COMPREHENSIVE START-UP/PROGRAMMING/COMMISSIONING PERIOD WITH OWNER. PROVIDE APPROPRIATE OWNER TRAINING ON HOW TO USE/RE-PROGRAM THE SYSTEM.

C. WALL SWITCH AND DIMMER SWITCH BUTTONS SHALL BE FACTORY ENGRAVED WHERE REQUESTED BY OWNER. OWNER SHALL PROVIDE DIRECTION ON NAMING CONVENTION DURING PROGRAMMING OF SYSTEM.

D. MOUNT ROOM CONTROLLERS ABOVE NEAREST ACCESSIBLE CEILING OR WHERE SHOWN ON PLANS. DO NOT EXCEED MANUFACTURER RECOMMENDED MAXIMUM DISTANCES FOR CONNECTION BETWEEN SYSTEM COMPONENTS.

E. PROVIDE A COMPLETE AND FULLY FUNCTIONING CONTROL SYSTEM FOR EACH INSTANCE SHOWN ON PLAN.

F. PROVIDE TYPE OF DIMMING ROOM CONTROLLER COMPATIBLE WITH APPROVED DIMMABLE FIXTURE. DIAGRAM SHOWN IS FOR 0-10V DIMMING. IF LINE-VOLTAGE (PHASE CONTROL) DIMMING ROOM CONTROLLERS ARE REQUIRED REFER TO MANUFACTURER STANDARD WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

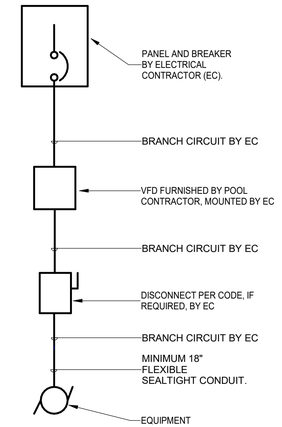
G. REFER TO LIGHTING PLANS FOR EXACT SENSING AND CONTROL DEVICES REQUIRED IN EACH ROOM. PROVIDE A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM.

H. REFER TO PLANS FOR NUMBER OF ZONES REQUIRED, PROVIDE ROOM CONTROLLER TYPE AND QUANTITY AS REQUIRED.

I. FOR DIMMED EMERGENCY LIGHT(S) PROVIDE IOTA #ETS-20-DR VL924 RELAY (OAE).

4 / E802 **DLM STAND-ALONE DIGITAL LIGHTING CONTROL - DIMMING**

SCALE: NONE



GENERAL **NOTES:**

1. THIS IS A STANDARD DRAWING TO AID CONTRACTOR. CONTRACTOR MUST VERIFY EXACT REQUIREMENTS WITH POOL SYSTEM SUPPLIER

2 / E802 **TYPICAL VFD STARTER WIRING**

SCALE: NONE

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 01.09.2026 37135 PROFESSIONAL ENGINEER

Project Number:	2025.009
Issue:	100% PERMIT SET
Date:	01.09.2026
Drawn By:	R.H.
Checked By:	R.H.

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ADDENDUM #1	02.25.2026

Sheet title:

ELECTRICAL DETAILS

E802

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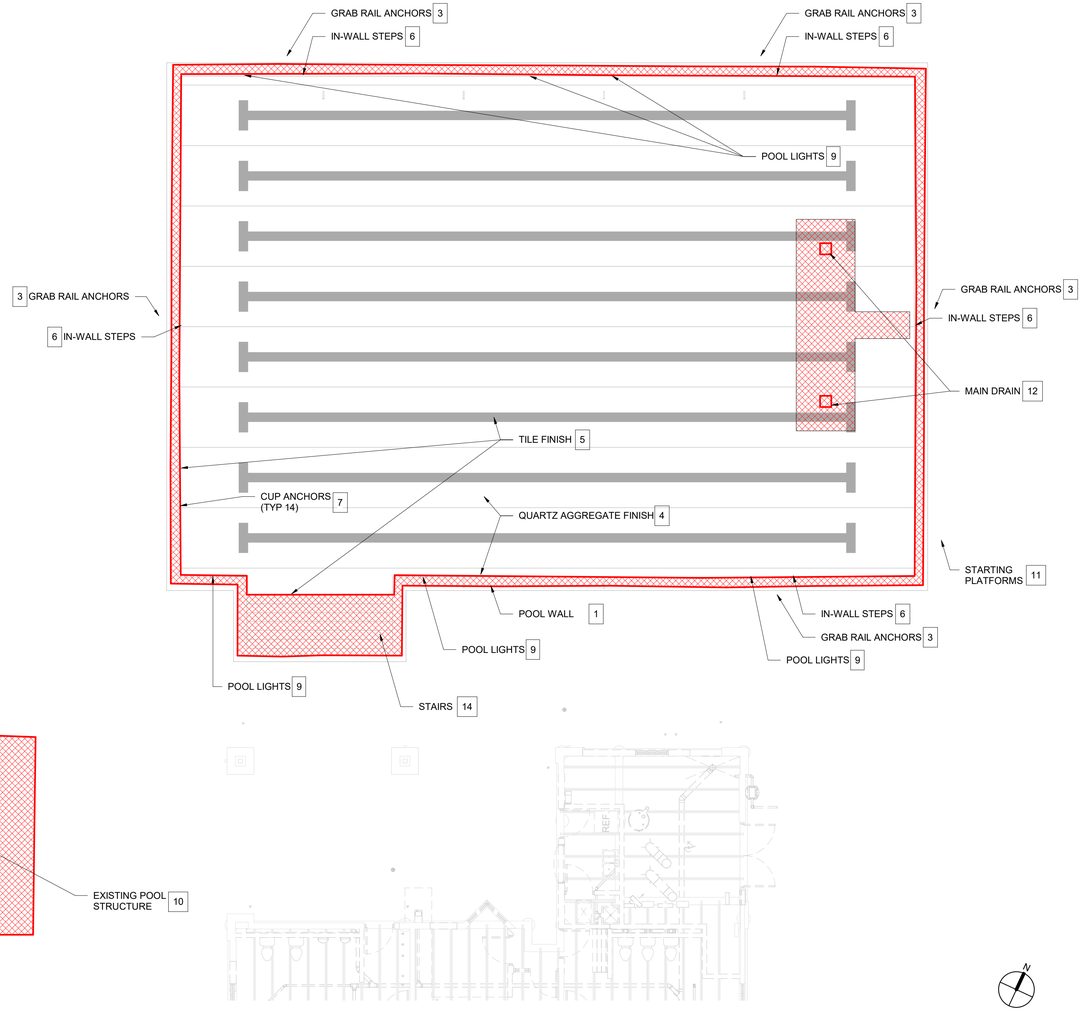
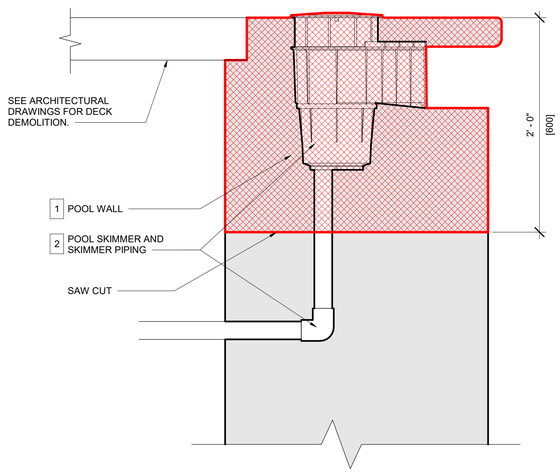
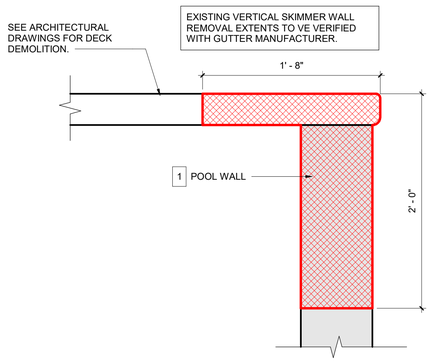


1 D100 DEMOLITION PLAN VIEW
1/8" = 1'-0"



3 D100 POOL WALL DEMOLITION DETAIL VIEW
1 1/2" = 1'-0"



2 D100 POOL WALL DEMOLITION DETAIL VIEW
1 1/2" = 1'-0"

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
D100	OVERALL DEMOLITION PLAN
D101	DEMOLITION PHOTOS
PL100	OVERALL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - EXISTING LAP POOL PLAN
PL111	POOL A - EXISTING LAP POOL DETAILS
PL112	POOL A - EXISTING LAP POOL DETAILS
PL120	POOL B -WADING POOL PLAN
PL121	POOL B - WADING POOL DIMENSION PLAN
PL122	POOL B - WADING POOL DETAILS
PL200	STRUCTURAL NOTES AND PLAN(S)
PL201	STRUCTURAL PLAN(S) AND SCHEDULE
PL210	STRUCTURAL GENERAL DETAILS
PL211	STRUCTURAL DETAILS
PL212	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL302	GENERAL PIPING DETAILS
PL310	POOL A PIPING PLAN
PL311	POOL A PADDOCK PLAN
PL320	POOL B PIPING PLAN
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL EQUIPMENT PIPING PLAN & PUMP PIT PLAN
PL402	MECHANICAL EQUIPMENT SCHEDULES
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL406	MECHANICAL DETAILS
PL407	MECHANICAL DETAILS
PL510	POOL A - EXISTING LAP POOL MECHANICAL SCHEMATIC
PL511	POOL A - EXISTING LAP POOL ELECTRICAL SCHEMATIC
PL520	POOL B - WADING POOL MECHANICAL SCHEMATIC
PL521	POOL B - WADING POOL ELECTRICAL SCHEMATIC
PL600	PIPE PENETRATIONS

GENERAL DEMOLITION NOTES:

1. ALL CONDITIONS SHOWN ON THIS DRAWING ARE EXISTING. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. ORIGINAL CONSTRUCTION DOCUMENTS FOR EXISTING FACILITY ARE ON FILE AT THE OWNER'S OFFICE FOR REVIEW. CONTRACTORS ARE RESPONSIBLE TO VISIT THE SITE AND REVIEW ALL DOCUMENTS PRIOR TO SUBMITTING THEIR BID TO COMPLETELY FAMILIARIZE THEMSELVES WITH ALL CONDITIONS.
2. DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC IN NATURE, AND MAY NOT DESCRIBE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. CONTRACTOR SHALL INCLUDE THIS MISCELLANEOUS NECESSARY WORK IN BASE BID.
3. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING POOL EQUIPMENT WITHIN THE LIMITS INDICATED WITH HATCHING (HATCHED). SEE DRAWING NOTES FOR EQUIPMENT THAT SHALL BE REUSED IN PLACE AND EQUIPMENT THAT SHALL BE RELOCATED AND REUSED.
4. CONTRACTOR TO VERIFY ASBESTOS TEST REQUIREMENTS AND CONDUCT ANY REQUIRED TESTING PRIOR TO CONSTRUCTION.
5. UNLESS NOTED OTHERWISE ON THE PLAN, CONTRACTOR SHALL DISPOSE OF ALL REMOVED EQUIPMENT AND MATERIALS IN A LEGAL MANNER OFF SITE. COPIES OF ALL MANIFESTS SHALL BE GIVEN TO THE OWNER SHOWING FINAL DISPOSAL LOCATION OF ALL MATERIALS.
6. CONTRACTOR SHALL MAINTAIN DUST CONTROL INSIDE AND OUTSIDE OF THE BUILDING AT ALL TIMES.
7. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SEWER INLETS, ETC., FROM DEBRIS AND SEDIMENTATION DURING DEMOLITION.
8. CONTRACTOR SHALL LIMIT THE EXTENT OF HIS DISRUPTION TO THE INDICATED WORK AREA, AND TAKE CARE NOT TO DISRUPT THE SURROUNDING AREA.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND TERMINATING EXISTING ELECTRICAL POWER, WATER, AND GAS LINES WITH LOCAL UTILITIES.
10. REFER TO ALL OTHER DRAWINGS FOR FURTHER DETAIL ON NEW CONSTRUCTION REQUIREMENTS.

DEFINITIONS:

A. ***REMOVE***: REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.
B. ***REMOVE AND SALVAGE***: ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN THE OWNER'S PROPERTY. REMOVE, CLEAN, AND PACK OR CRATE ITEMS TO PROTECT AGAINST DAMAGE. IDENTIFY CONTENTS OF CONTAINERS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA.
C. ***REMOVE AND REINSTALL***: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN THE SAME LOCATIONS OR IN LOCATIONS INDICATED.
D. ***EXISTING TO REMAIN***: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE OWNER OR ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.
E. ***ABANDON***: PERMANETLY REMOVE FROM SERVICE AND MAINTAIN IN PLACE. FOR PIPING, ABANDONED PIPES SHALL BE BLOWN OUT, DISCONNECTED FROM OTHER PIPING AND DISCONNECTED FROM THE POOL WALL/TANK WALL. PIPING ENDS SHALL BE CAPPED ON BOTH ENDS, FOR PIPE PENETRATING FINISHED SURFACES, CUT BACK PIPE SUCH THAT CAPS ARE A MINIMUM OF 3" BELOW FINISHED SURFACE. COVER WITH NON-SHRINK, NON-METALLIC GROUT AND SPECIFIED FINISHES. ABANDONED PIPING SHALL BE INDENTIFIED IN RECORD DRAWINGS PROVIDED BY THE CONTRACTOR.

POOL DEMOLITION KEYNOTES

1	REMOVE EXISTING TOP OF WALL AND PORTION OF EXISTING DECK FOR INSTALLATION OF NEW STAINLESS STEEL GUTTER AND GUTTER PIPE. SEE DEMOLITION DETAILS 2 AND 3 ON DRAWING D100.
2	REMOVE EXISTING SKIMMERS AND ABANDON EXISTING SKIMMER PIPING. TYPICAL OF 10.
3	REMOVE EXISTING GRAB RAIL ANCHORS, TYPICAL.
4	REMOVE EXISTING POOL QUARTZ AGGREGATE FINISH FROM POOL FLOOR, ENTRY STAIRS, AND ALL POOL WALLS.
5	REMOVE ALL EXISTING POOL TILE FINISHES.
6	REMOVE EXISTING IN-WALL STEPS. REMOVE ADDITIONAL MATERIAL AS NECESSARY TO INSTALL IN-WALL STEP INSERTS.
7	REMOVE EXISTING CUP ANCHORS AND PATCH WALL FLUSH FOR POOL FINISH INSTALLATION. TYPICAL OF 14.
8	REMOVE EXISTING POOL WALL AND DECK DEPTH MARKERS.
9	REMOVE ALL IN-POOL LIGHTS. EXISTING TO REMAIN POOL LIGHT NICHES. TYPICAL OF 6.
10	REMOVE EXISTING POOL STRUCTURE. ABANDON EXISTING POOL PIPING. SEE ARCHITECTURAL DRAWINGS.
11	REMOVE STARTING PLATFORM ANCHORS. TYPICAL OF 16.
12	REMOVE MAIN DRAIN GRATE COVER. EXISTING TO REMAIN MAIN DRAIN SUMPS AND PIPING TO THE POOL WALL.
13	REMOVE EXISTING WALL INLETS AND ABANDON WALL INLET PIPING. FILL WITH NON-STRINK NON-METALLIC GROUT FLUSH WITH POOL WALL. FIELD VERIFY QUANTITY.
14	REMOVE EXISTING STAIR CONCRETE FLUSH WITH POOL FLOOR AND POOL WALL.

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COLORADO LICENSED
BRIAN W. FRISBEE
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	T.ED
Checked By:	JB

Revisions:

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Sheet title:

OVERALL DEMOLITION PLAN

D100

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POOL DEMOLITION KEYNOTES

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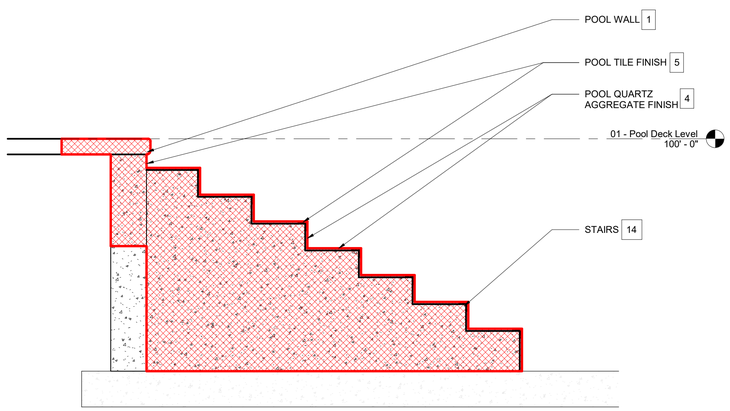
7	REMOVE EXISTING CUP ANCHORS AND PATCH WALL FLUSH FOR POOL FINISH INSTALLATION. TYPICAL OF 14.
8	REMOVE EXISTING POOL WALL AND DECK DEPTH MARKERS.
9	REMOVE ALL IN-POOL LIGHTS. EXISTING TO REMAIN POOL LIGHT NICHES. TYPICAL OF 6.
10	REMOVE EXISTING POOL STRUCTURE. ABANDON EXISTING POOL PIPING. SEE ARCHITECTURAL DRAWINGS.
11	REMOVE STARTING PLATFORM ANCHORS. TYPICAL OF 16.
12	REMOVE MAIN DRAIN GRATE COVER. EXISTING TO REMAIN MAIN DRAIN SUMPS AND PIPING TO THE POOL WALL.
13	REMOVE EXISTING WALL INLETS AND ABANDON WALL INLET PIPING. FILL WITH NON-STRINK NON-METALLIC GROUT FLUSH WITH POOL WALL. FIELD VERIFY QUANTITY.
14	REMOVE EXISTING STAIR CONCRETE FLUSH WITH POOL FLOOR AND POOL WALL.



4 D101 | LAP POOL DEMOLITION DETAIL VIEW
NOT TO SCALE



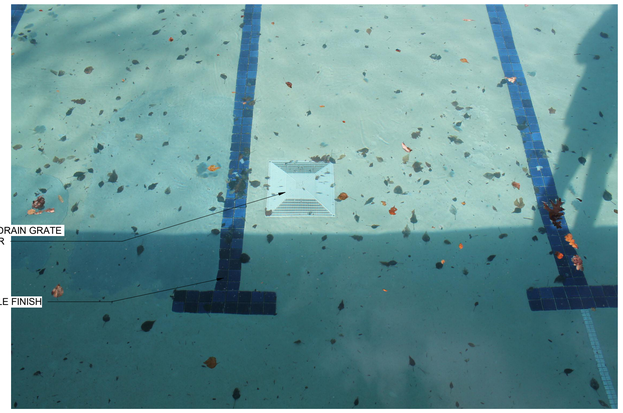
5 D101 | STARTING PLATFORM ANCHOR DEMOLITION DETAIL VIEW
NOT TO SCALE



6 D101 | EXISTING STAIRS DETAIL VIEW
3/4" = 1'-0"



1 D101 | LAP POOL DEMOLITON DETAIL VIEW
NOT TO SCALE



3 D101 | MAIN DRAIN GRATE DETAIL VIEW
NOT TO SCALE



2 D101 | IN-WALL STEP DEMOLITION DETAIL VIEW
NOT TO SCALE

BARKER RINKER SEACAT ARCHITECTURE
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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FREBERG
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	T.ED
Checked By:	JB

Revisions:

Description	Date:

Sheet title:

DEMOLITION PHOTOS

D101

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GENERAL NOTES:

1. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
2. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
4. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
5. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
6. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
7. REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
8. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
9. REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.
10. REFER TO PL600 SERIES DRAWINGS FOR ALL PIPE PENETRATION INFORMATION.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
SUPERIOR, COLORADO, BOULDER COUNTY

HEALTH & SAFETY CODE:
DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT 5 CCR 1003-5 SWIMMING POOLS AND MINERAL BATHS
BOULDER COUNTY BUILDING CODE AMENDMENTS RESOLUTION UPDATED JANUARY 23, 2025

MODEL CODES:
2023 MODEL AQUATIC HEALTH CODE

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

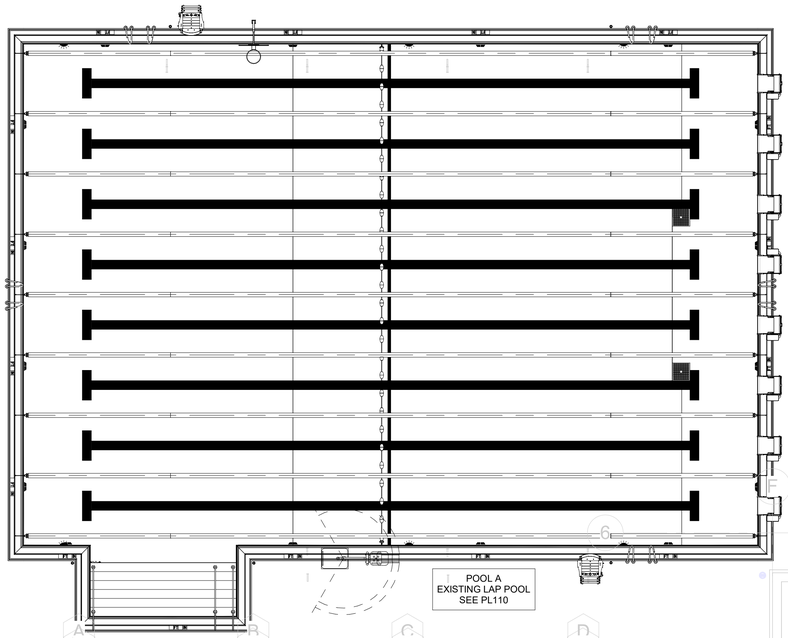
COMPETITIVE SWIMMING GOVERNING BODIES:

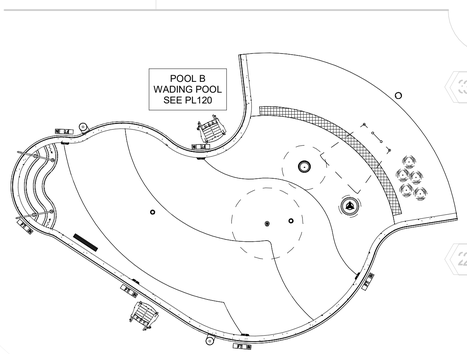
SWIMMING:
USA SWIMMING

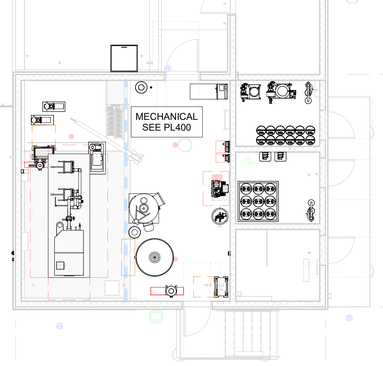
BATHER CAPACITY

BATHER CAPACITY IS CALCULATED IN ACCORDANCE WITH SECTION 403 OF THE 2021 ISPSC CODE AS FOLLOWS:

1. POOL A: EXISTING COUNT
2. POOL B:
   a. 676 (SF) SHALLOW WATER / 15 (SF/BATHER) = 45 BATHERS.







1 PL100 OVERALL AQUATIC PLAN VIEW
1/8" = 1'-0"

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BARKER RINKER SEACAT ARCHITECTURE

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Superior North Pool Reno

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OVERALL AQUATIC PLAN

PL100

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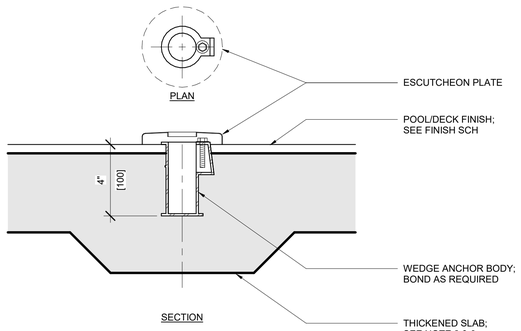


NOTES:

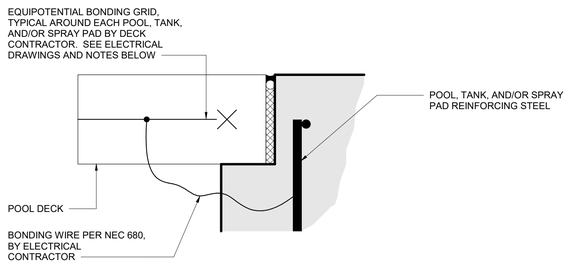
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MIN COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MIN.

2 | PL101 ANCHOR - WEDGE DETAIL VIEW
3" = 1'-0"

NOTES:

1. CONTRACTOR TO PURCHASE AND INSTALL RAIL GOODS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS OF PARTIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY HANDRAIL DIMENSIONS PRIOR TO FABRICATION.

3 | PL101 RAILING OFFSET TO ADJACENT SURFACE DETAIL VIEW
3/4" = 1'-0"



NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   - 3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   - 3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   - 3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

4 | PL101 POOL EQUIPOTENTIAL BONDING GRID DETAIL VIEW
3" = 1'-0"

LEGEND - FINISHES & COLOR CODES - POOL A

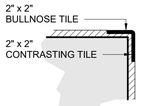
AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
CONTRASTING TILE BAND	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON WHITE	
DEPTH MARKERS - LASER ETCHED	LSE	LASER ETCHED	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SB	SANDBLASTED	C04	BLACK AND RED ON WHITE	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	
LANE MARKERS - FLOOR	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
LANE MARKERS - WALL	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
TRIM TILE - BULLNOSE	S862	2"x2" S-886 BULLNOSE TRIM TILE	C01	CONTRASTING TO POOL FINISH	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	

LEGEND - FINISHES & COLOR CODES - POOL B

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SB	SANDBLASTED	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	
INTERMEDIATE STEGMEIER EDGE	LB	LIGHT BROOM	C01	AS SELECTED BY OWNER	INTERMEDIATE STEGMEIER EDGE
ROLLBACK	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	
TILE - TRIM TILE	SR1	1"x1" SLIP RESISTANT TILE	C01	AS SELECTED BY ARCHITECT	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - BULLNOSE	S862	2"x2" S-886 BULLNOSE TRIM TILE	C07	CONTRASTING TO POOL FINISH	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	

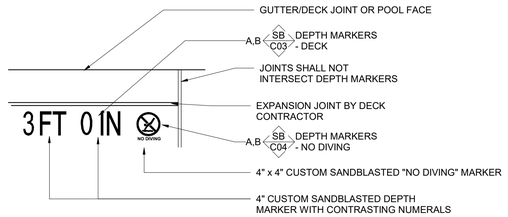
FINISH NOTES:

1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE. CONTRASTING COLORS SHALL HAVE A MUNSELL VALUE OF 0 TO 4.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 STANDARD USING THE DCOF ACUTEST METHODOLOGY:
   - 3A. ON WET LEVEL SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.42.
   - 3B. ON WET SLOPED SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.

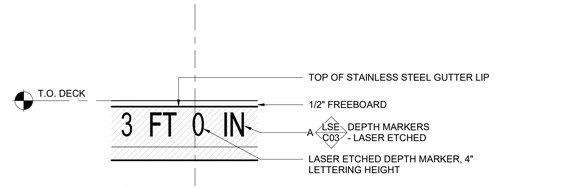


NOTES:

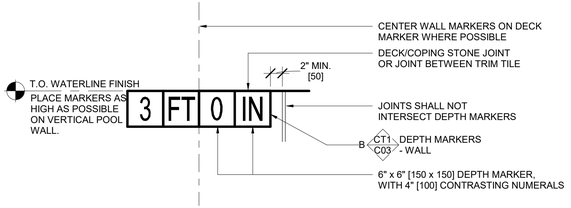
1. NOSING : 2" MIN. CONTRASTING TILE BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.



DECK DEPTH MARKER



S.S. GUTTER WALL DEPTH MARKER



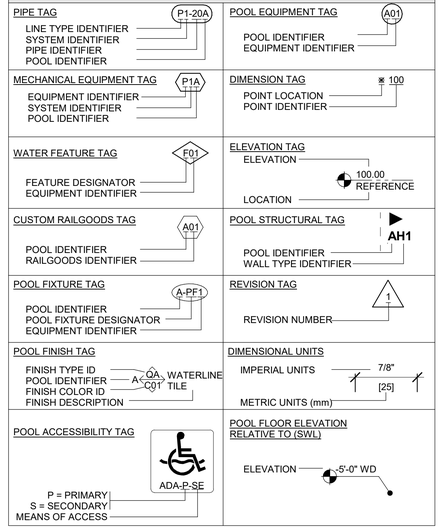
WALL DEPTH MARKER

NOTES:

1. WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. DEPTH MARKERS SHALL BE LOCATED WITHIN 18" OF THE WATER'S EDGE.
9. PROVIDE CONTRASTING COLOR USING LITHICHROME STONE PAINT WITH MANUFACTURER'S RECOMMENDED SEALANT FOR ENGRAVING DECK DEPTH MARKERS. CLEVELAND LITHICHROME WITH HIGH POLISH OR EQUIVALENT.

1 | PL101 FINISH DETAIL - DEPTH MARKER DECK & WALL DETAIL VIEW
1" = 1'-0"

TAG LEGEND



EQUIPMENT IDENTIFIER KEY

AC	-	AIR COMPRESSOR	FP	-	FLOW METER POWER SUPPLY
AF	-	AUTOFILL	H	-	HEATER
AOP	-	ADVANCED OXIDATION PROCESS	HX	-	HEAT EXCHANGER
AP	-	pH CONTROL PUMP	P	-	PUMP
AS	-	pH CONTROL STORAGE	PV	-	PNEUMATIC MAIN DRAIN VALVE
BP	-	BOOSTER PUMP	S	-	STRAINER
C	-	CHEMICAL CONTROLLER	SC	-	CONTAINMENT PALLETE
CP	-	CHLORINE FEED PUMP	SV	-	SURGE TANK FAN
CS	-	CHLORINE STORAGE	UV	-	ULTRA-VIOLET DISINFECTION
EV	-	ELECTRONIC MAIN DRAIN VALVE	V	-	VARIABLE FREQUENCY DRIVE
F	-	FILTER	WC	-	WATER CHILLER
FM	-	FLOW METER			

ABBREVIATIONS

AHJ	- AUTHORITY HAVING JURISDICTION	P&ID	- PIPING & INSTRUMENTATION DIAGRAM
BO	- BOTTOM OF	PL	- POOL LIFT
CJ	- CONTROL JOINT	PS	- POOL STAIRS
DIA	- DIAMETER	SB	- SAND BLASTED
EJ	- EXPANSION JOINT	SCH	- SCHEDULE
EW	- EACH WAY	SE	- SLOPED ENTRY
FFE	- FINISH FLOOR ELEVATION	SS	- STAINLESS STEEL
ID	- INSIDE DIAMETER	SWL	- STATIC WATER LEVEL
MAX	- MAXIMUM	TO	- TOP OF
MIN	- MINIMUM	TS	- TRANSFER SYSTEM
NC	- NORMALLY CLOSED	TUBC	- TRUE UNION CHECK VALVE
NO	- NORMALLY OPEN	TUBV	- TRUE UNION BALL VALVE
NPS	- NOMINAL PIPE SIZE	TW	- TRANSFER WALL
OC	- ON CENTER	TYP	- TYPICAL
OD	- OUTSIDE DIAMETER	WD	- WATER DEPTH
OWE	- OPERATING WATER ELEVATION		

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT

QTY	PRODUCT NAME	MANUFACTURER	NOTES
1	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS ULTRAMAX GEMINI	DOLPHIN WAVE 140 AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, FINE FILTER KIT WITH TOP ACCESS, SIX (6) ACTIVE BRUSHES, SUCTION RATE: 9,000 GPH, 140 FT CORD, 3 YEAR WARRANTY
1	DEFIBRILLATOR	WATER SAFETY PRODUCTS	ZOLL AED PLUS DEFIBRILLATOR COMPLETE AED PACKAGE WITH CPR-D PADZ ELECTRODES, CPR HELP TECHNOLOGY WITH REAL-TIME DEPTH AND RATE CPR FEEDBACK, LITHIUM 123 BATTERIES WITH 5 YEAR SHELF LIFE, CARRYING CASE AND AED PRESCRIPTION
3	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	LIFE HOOK & RESCUE POLE	RECREONICS	FIBERGLASS POLE, WITH DOUBLE LIFE HOOK. PROVIDE 16-FOOT NON-TELESCOPING SECTIONS WITH & RUBBER END CAP. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	MANUAL VACUUM CLEANING SYSTEM	HAMMERHEAD	RESORT-21; (RESORT-30); 21'(30") VACUUM HEAD WITH (2) LARGE CAPACITY BAGS, 60 FOOT CORD, STAINLESS STEEL POLE SWIVEL MOUNT AND WELDED ALUMINUM CADDY W/ 20" WHEELS. PROVIDE WITH 12V DEEP CYCLE MARINE BATTERY, BATTERY CHARGER, AND 1 1/8" STANDARD POOL POLE.
8	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP , CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE.
1	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
3	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT
1	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT

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COLORADO LICENSED BRIAN W. FRISBEE P.E. 0042920 11/19/2025 PROFESSIONAL ENGINEER

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GENERAL DETAILS AND SCHEDULES

PL101

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SCHEDULE - BASIS OF DESIGN - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	POOL LIFT	1	SR SMITH, AQUA CREEK, OR EQUAL	PAL PACKAGE (CALIFORNIA LIFT PACKAGE) INCLUDES ARMREST PACKAGE AND SPINE BOARD. MUST BE ADA COMPLIANT WITH A MINIMUM LIFTING CAPACITY OF 300 LBS. PROVIDE BATTERY CHARGER, EXTRA BATTERY, AND TOTAL COVER
A	02	ESCUTCHEON PLATE	26	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
A	03	WEDGE ANCHOR	26	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
A	04	GRAB RAILS	5	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	PRETZEL BEND STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	05	CUP ANCHOR	20	PADDOCK	SS CUP ANCHOR INTEGRAL TO SS GUTTER.
A	06	IN-WALL STEPS	5	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	17" x 6", 304 STAINLESS STEEL RECESSED GUTTER INTEGRATED STEP
A	07	IN-WALL STEPS	13	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	17" x 6", 304 STAINLESS STEEL RECESSED STEP
A	08	LIGHT	6	PENTAIR	INTELLIBRITE, WHITE LED POOL LIGHT, 500W EQUIVALENCY, 120V, WITH SS FACE RING. LIGHT NICHE EXISTING TO REMAIN.
A	09	LIFEGUARD CHAIR	2	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT 40" SEAT HEIGHT (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)
A	10	BASKETBALL HOOP	1	SR SMITH	EXTENDED REACH STAINLESS STEEL BASKETBALL HOOP WITH ROCKSOLID ANCHOR
A	11	STANCHION	5	S.R. SMITH, SPECTRUM, OR PARAGON AQUATICS	1.90" OD x .145" WALL x 8'-0" LONG 304 STAINLESS STEEL STANCHION POST. PROVIDE SLIDING COLLAR WITH EYE BOLT
A	12	STANCHION ANCHOR	5	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL STANCHION ANCHOR FOR 1.90" O.D. RAIL WITH SLIP FIT ANCHOR CAP AND CAP REMOVAL TOOL
A	13	SAFETY ROPE	1	PARAGON AQUATICS	3/4" POLYETHYLENE ROPE WITH 5"x9" HANDI-LOCK FLOAT, VERIFY LENGTH WITH PLANS
A	14	STARTING PLATFORM	8	SPECTRUM AQUATICS	SPRINT STARTING PLATFORM WITH 24"X32" PLATFORM, TILTED 10 DEGREES, SIDE STEP, SINGLE SQUARE POST ANCHOR, 30" SETBACK
A	15	PLATFORM ANCHOR	8	S. R. SMITH	ROCKSOLID SINGLE POST ANCHOR WITH SAFE-T-CAP COVER
A	16	BACKSTROKE FLAG	2	PARAGON AQUATICS	12" x 18" HEAVY DUTY NYLON PENNANTS. PRE-STRUNG AND SPACED ACCORDING TO REGULATIONS ON 3/16" BRAIDED NYLON CORD. PROVIDE SUFFICIENT ADDITIONAL CORD LENGTH TO REACH STANCHIONS. ATTACH TO STANCHION WITH CORROSION RESISTANT SWIVEL HOOK ON EACH END. COLOR SELECTION BY OWNER/ARCHITECT
A	17	TAGLINE	1	COMPETITOR SWIM PRODUCTS	3/16" STAINLESS STTEL, VINYL COATED CABLE WITH TAKE UP REEL AND STAINLESS STEEL SPRING WITH CABLE LOCK
A	19	LANE DIVIDERS	9	COMPETITOR SWIM PRODUCTS	6" WAVE QUELLING RACING LANE LINE, COLORS BY OWNER / ARCHITECT

SCHEDULE - CUSTOM RAILGOODS - POOL A

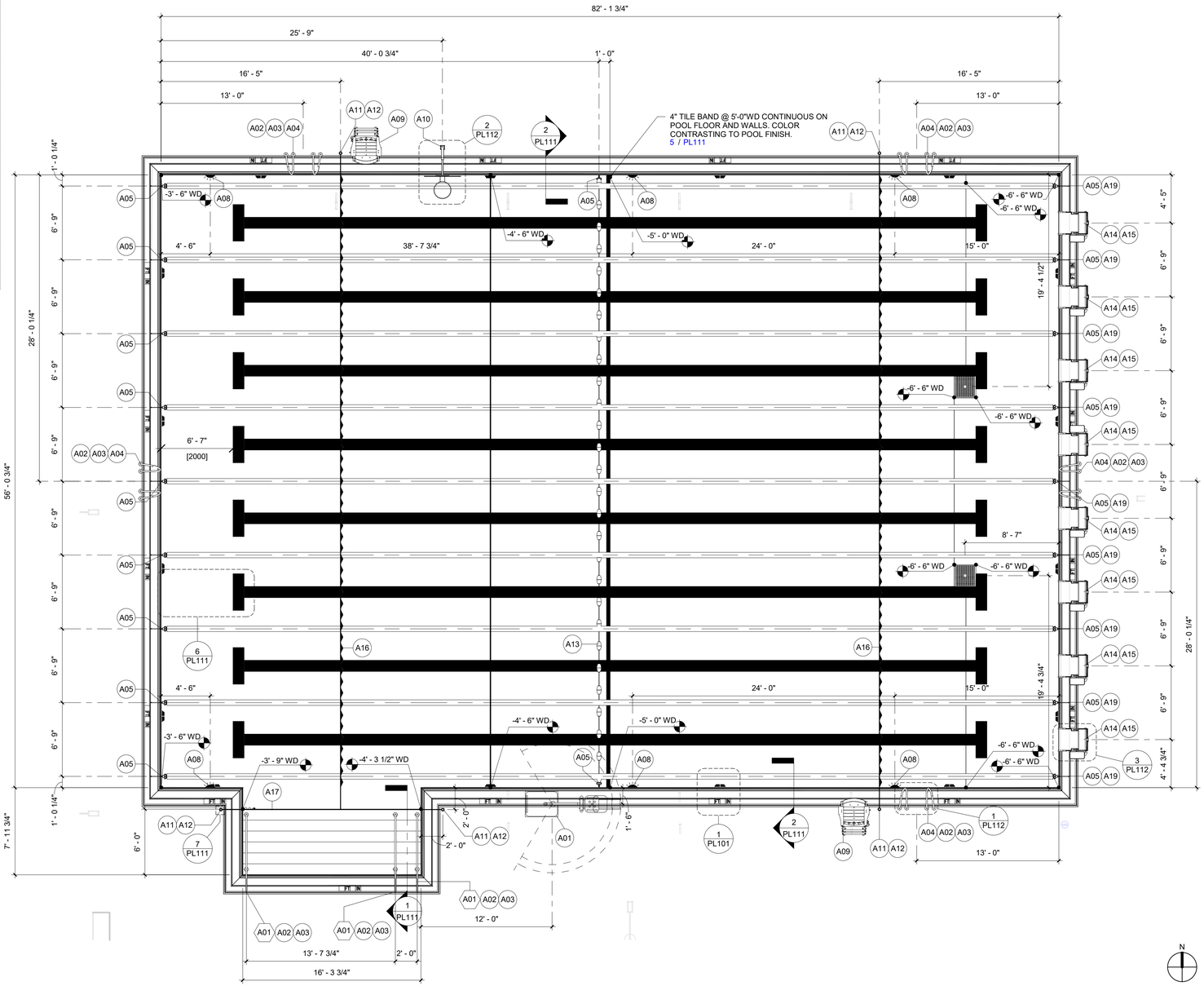
POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	HAND RAIL	3	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

POOL A-LAP POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	292	FEET
WATER SURFACE AREA	4,734	SQUARE FEET
POOL WATER TEMPERATURE	84	°F
POOL VOLUME	171,533	GALLONS
SURGE TANK OPERATING VOLUME	5,132	GALLONS
TOTAL VOLUME OF WATER	176,665	GALLONS
CIRCULATION RATE	589	GPM
TURNOVER/VOLUME/FLOW	300 MIN.	
NSF 50 FILTRATION RATE	1.13	GPM/FT²
FILTER DRAIN RATE	300	GPM
SURGE FACTOR	1.08	GAL/SQFT
AVAILABLE SURGE CAPACITY IN SURGE TANK	5132	GALLONS

DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)
2. DIMENSIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND ARE APPROXIMATE IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO AND REQUIRED FOR FABRICATION OF ANY POOL RELATED COMPONENTS



1 PL110 POOL A - EXISTING LAP POOL PLAN VIEW
3/16" = 1'-0"

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Superior North Pool Reno

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COLORADO LICENSED
BRIAN W. FREBEC
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	T.ED
Checked By:	JB

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Description	Date:

Sheet title:

POOL A - EXISTING LAP POOL PLAN

PL110

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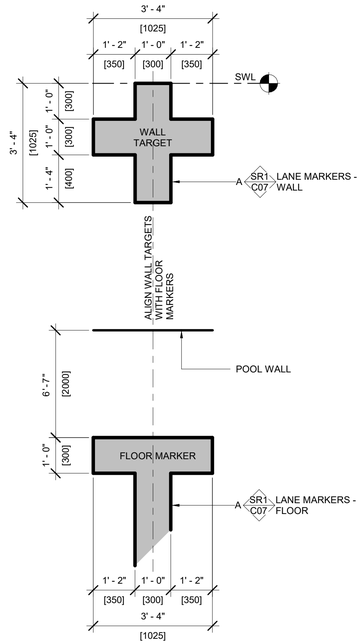
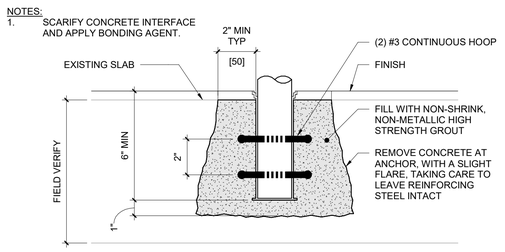
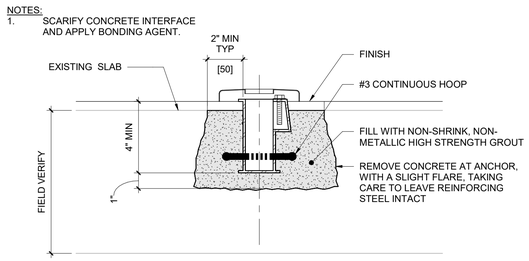


NOTES:
1. TILES SHALL BE INSTALLED SO THAT FINISHED FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL SURFACE
2. ALL TILES SHALL BE IN A CONTRASTING COLOR TO POOL FINISH, BOTH FLOOR AND WALL. CONFIRM TILE COLOR WITH OWNER/ARCHITECT

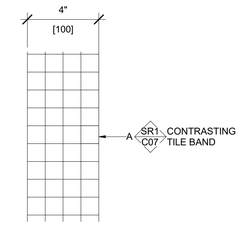
6 PL111 | FLOOR MARKERS AND WALL TARGETS DETAIL VIEW
1/2" = 1'-0"



3 PL111 | STANCHION IN EXISTING CONCRETE DETAIL VIEW
3" = 1'-0"

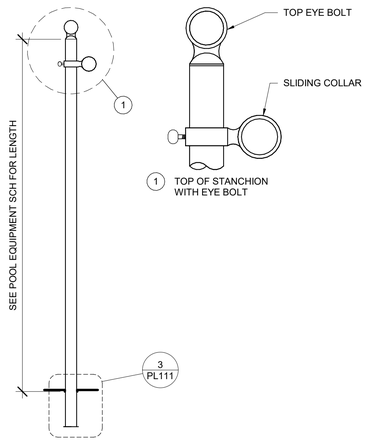


4 PL111 | ANCHOR - WEDGE IN EXISTING CONCRETE DETAIL VIEW
3" = 1'-0"



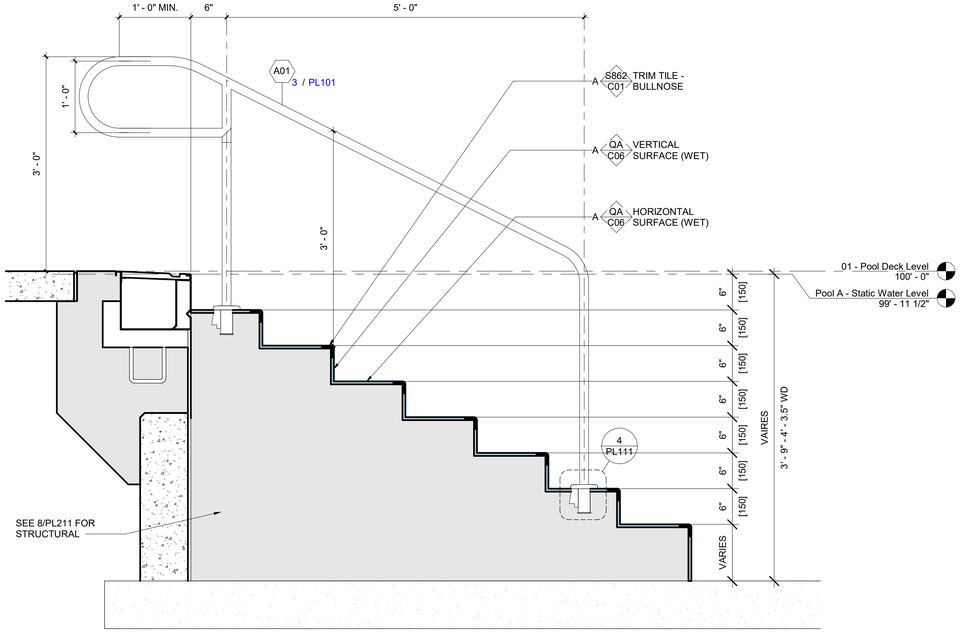
NOTES:
1. 4" CONTRASTING TILE BAND @ 5'-0" WD CONTINUOUS ON POOL FLOOR AND WALLS; COLOR CONTRASTING TO POOL FINISH.

5 PL111 | CONTRASTING TILE BAND DETAIL VIEW
3" = 1'-0"

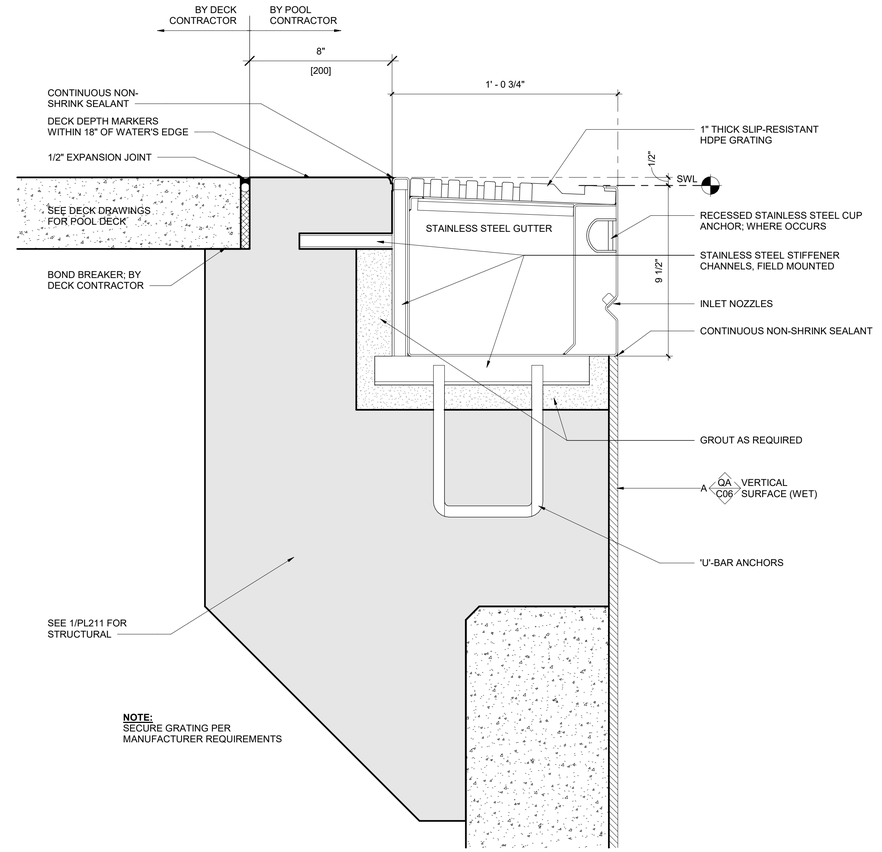


NOTES:
1. ONE SOCKET IS REQUIRED FOR ANCHORAGE OF EACH STANCHION.
2. SOCKET IS SS AND SHALL BE FURNISHED WITH SLIP-FIT CLOSURE CAP.
3. PROVIDE KEY FOR EACH CAP.

7 PL111 | STANCHION DETAIL VIEW
NONE



1 PL111 | POOL A - LAP POOL STAIRS SECTION VIEW
1" = 1'-0"



NOTE:
SECURE GRATING PER MANUFACTURER REQUIREMENTS

2 PL111 | POOL WALL- FINISH DETAIL VIEW
3" = 1'-0"

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Superior North Pool Reno

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COLORADO LICENSED BRIAN W. FREBERG PROFESSIONAL ENGINEER P.E.0042920 11/19/2025

Project Number:	25204
Issue:	PERMIT SET
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Drawn By:	T.ED
Checked By:	JB

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POOL A - EXISTING LAP POOL DETAILS

PL111

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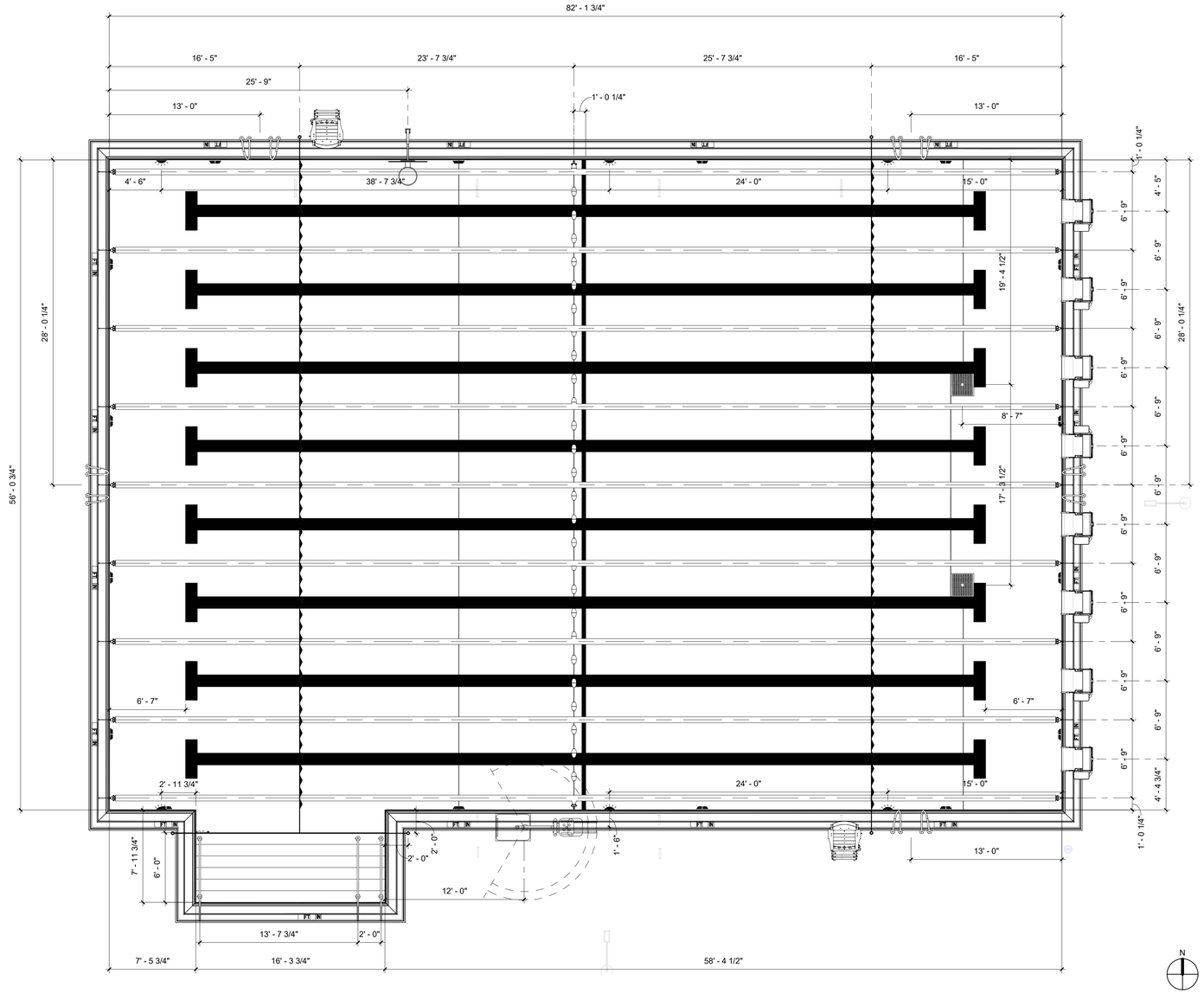
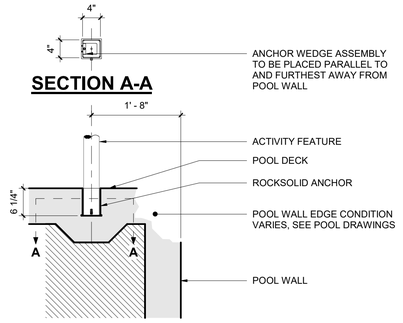
DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)

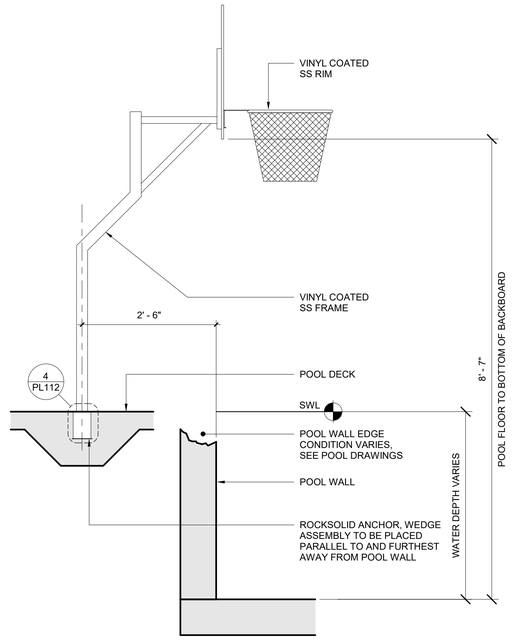

82' - 1 3/4"
16' - 5"
23' - 7 3/4"
25' - 7 3/4"
16' - 5"
25' - 9"
13' - 0"
1' - 0 1/4"
13' - 0"
4' - 6"
38' - 7 3/4"
24' - 0"
15' - 0"
1' - 0 1/4"
4' - 5"
6' - 9"
6' - 9"
6' - 9



NOTES:

1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

4 PL112 | ANCHOR - ROCKSOLID INSTALL DETAIL VIEW
3/4" = 1'-0"



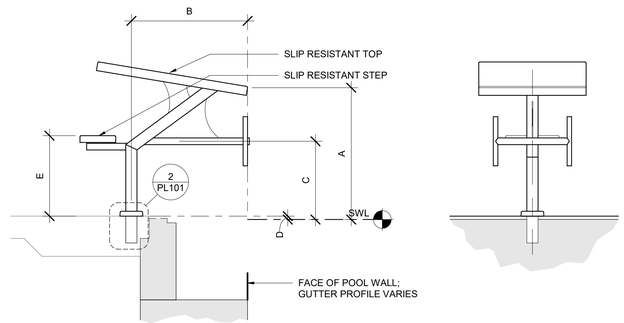
NOTES:

1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

2 PL112 | ACTIVITIES - WATER BASKETBALL ANCHOR DETAIL VIEW
3/4" = 1'-0"

PLAN VIEW

STARTING PLATFORM SCHEDULE	
A - PLATFORM HEIGHT ABOVE SWL	29.5" [750]
B - ANCHOR SETBACK	30.00" [750]
C - BACKSTROKE HANDLES	8.75" [225]
D - DECK TO SWL	0.5" [10]
E - STEP HEIGHT	14.75" [375]
F - PLATFORM LENGTH	30.00" [750]
G - PLATFORM WIDTH	24.00" [600]
TRACKSTART WEDGE	Yes
SIDE HANDLES	Yes
MOUNTING STEP	SIDE

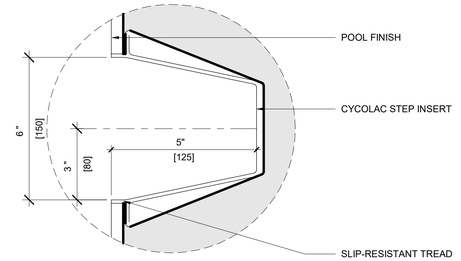


SIDE VIEW **FRONT VIEW**

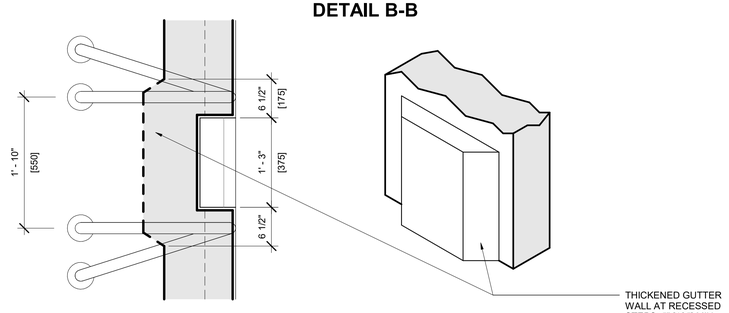
NOTES:

1. STARTING PLATFORM SHOWN IS FOR REFERENCE ONLY. SEE POOL BASIS OF DESIGN SCHEDULE FOR STARTING PLATFORM MANUFACTURER AND MODEL.
2. STARTING PLATFORM SHALL BE INSTALLED FLUSH WITH THE FACE OF POOL WALL.
3. ANCHORS TO BE INSTALLED WITH MINIMUM 2" CONCRETE COVERAGE AROUND ANCHOR.
4. CONTRACTOR TO COORDINATE DIMENSION (D) WITH OTHER CONSTRUCTION PRIOR TO ORDERING PLATFORM.
5. CONTRACTOR TO VERIFY DIMENSION (D) PRIOR TO ORDER.

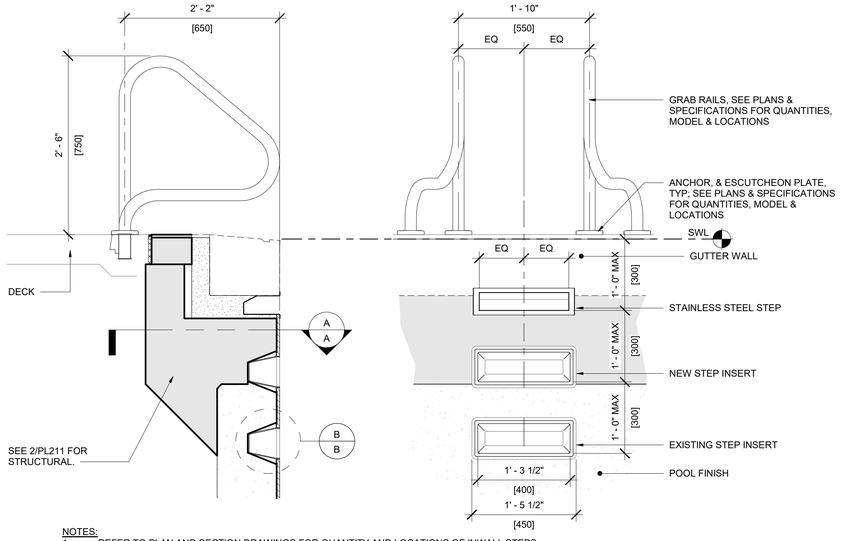
3 PL112 | STARTING PLATFORM DETAIL VIEW
3/4" = 1'-0"



DETAIL B-B



SECTION A-A



NOTES:
1. REFER TO PLAN AND SECTION DRAWINGS FOR QUANTITY AND LOCATIONS OF INWALL STEPS
2. PROVIDE (1) ONE INWALL STEP FOR EVERY 1'-0" OF WATER DEPTH TO A MAXIMUM DEPTH OF 4'-6"
3. MAINTAIN A 6" MINIMUM DISTANCE BETWEEN BOTTOM STEP TREAD AND POOL FLOOR TO ALLOW FOR PROPER CONCRETE COVERAGE

1 PL112 | GRAB RAIL - STAINLESS STEEL RECESSED STEP DETAIL VIEW
1" = 1'-0"

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Superior North Pool Reno

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COLORADO LICENSED
BRIAN W. FRISBEY
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
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POOL A - EXISTING LAP POOL DETAILS

PL112

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SCHEDULE - WATER FEATURE - POOL B

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
B	F01	WATER GEYSER	5	CUSTOM	FIELD FABRICATED WATER GEYSER	15	75
B	F02	GROUND SPRAY	1	WATERPLAY	0010-7496 - GS SPRAY TUNNEL 4	12	12
B	F03	SPRAY FEATURE	1	WATERPLAY	0011-0871 - FS FUN GUY 4 - SMALL PLAYPHASE BASE	8	8
B	F04	SPRAY FEATURE	1	WATERPLAY	0011-1478 - FS SLOSH 1 - SMALL PLAYPHASE BASE	15	15
B	F05	SPRAY FEATURE	1	WATERPLAY	0010-5724 - FS WATER WEAVER 2 - SMALL PLAYPHASE BASE	10	10

SCHEDULE - BASIS OF DESIGN - POOL B

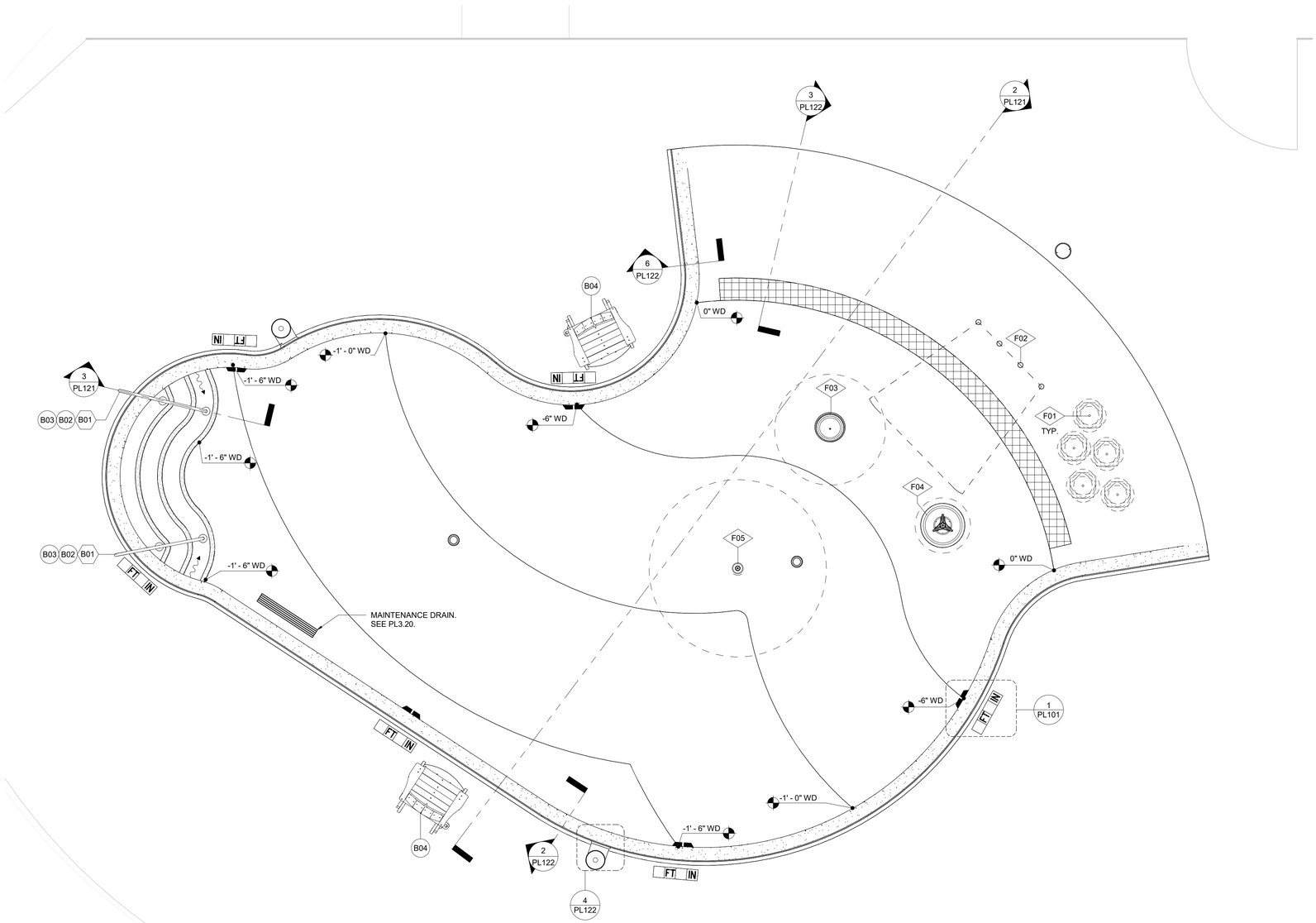
POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
B	02	ESCUTCHEON PLATE	4	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
B	03	WEDGE ANCHOR	4	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
B	04	LIFEGUARD CHAIR	2	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT 30" SEAT HEIGHT (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)

SCHEDULE - CUSTOM RAILGOODS - POOL B

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
B	01	HAND RAIL	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

POOL B-WADING POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	109	FEET
WATER SURFACE AREA	676	SQUARE FEET
POOL WATER TEMPERATURE	86	°F
POOL VOLUME	4,456	GALLONS
TOTAL VOLUME OF WATER	4,456	GALLONS
CIRCULATION RATE	139	GPM
TURNOVER/VOLUME/FLOW	32 MIN.	
NSF 50 FILTRATION RATE	11.78	GPM/FT²
BACKWASH FLOW	177	GPM



1 POOL B - WADING POOL
PL120 PLAN VIEW
3/8" = 1'-0"

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BRIAN W. FREIBERG
P.E.0042920
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POOL B -WADING POOL PLAN

PL120

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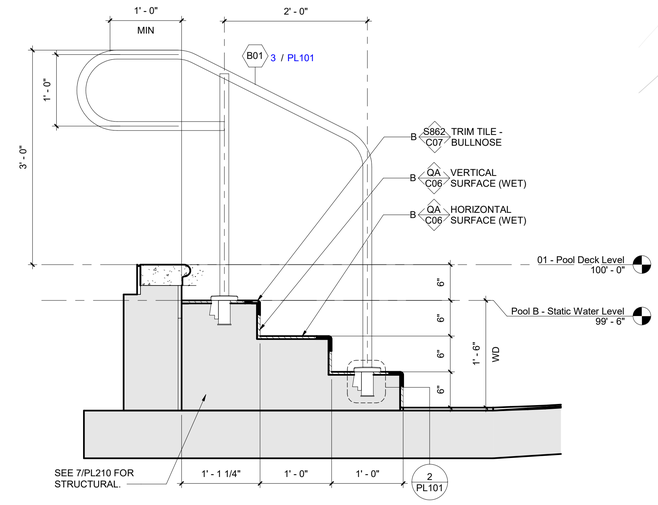
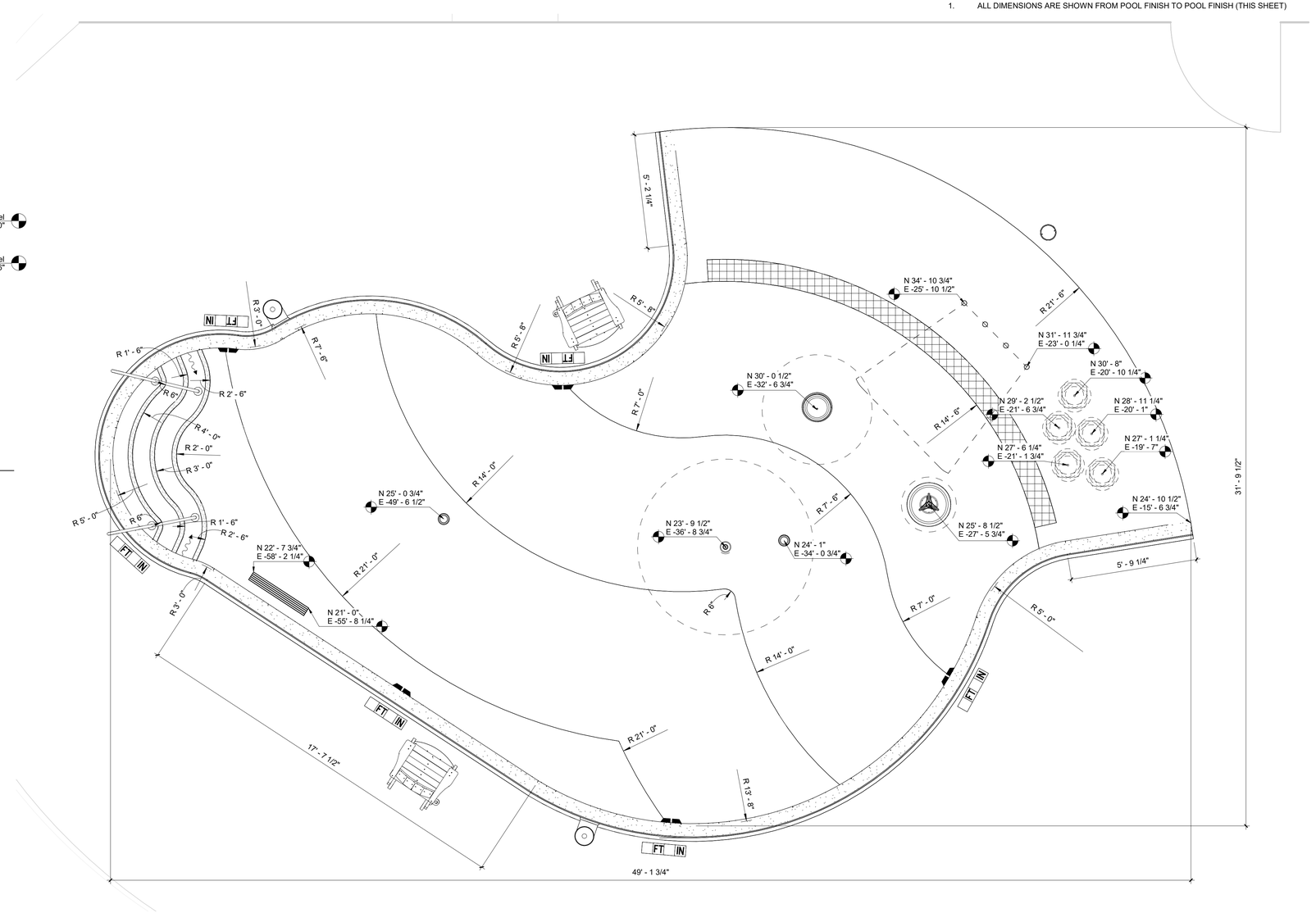


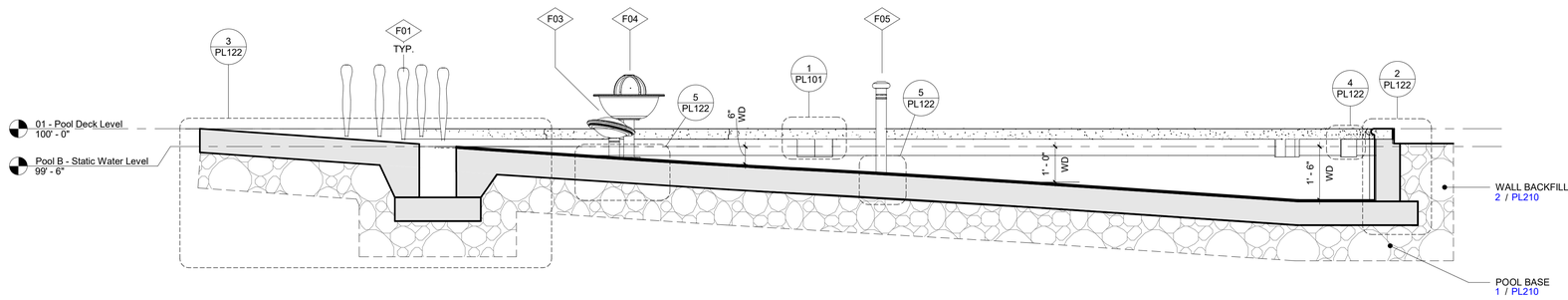
3 PL121 POOL B - WADING POOL STAIR SECTION VIEW
1" = 1'-0"

DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)



1 PL121 POOL B - WADING POOL DIMENSION PLAN VIEW
3/8" = 1'-0"



2 PL121 POOL B - WADING POOL SECTION SECTION VIEW
1/2" = 1'-0"

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P.E.0042920
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POOL B - WADING POOL DIMENSION PLAN

PL121

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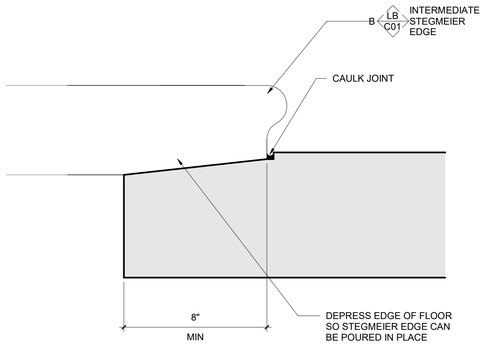
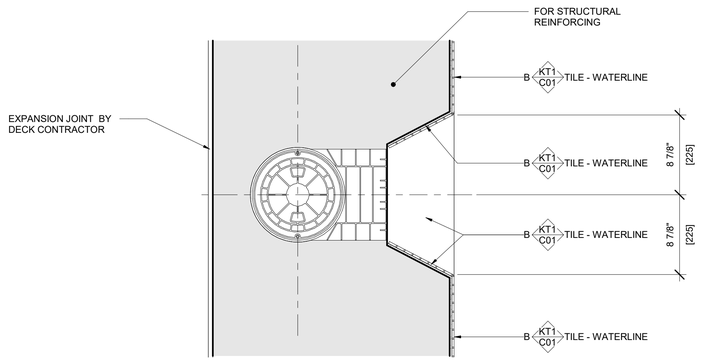
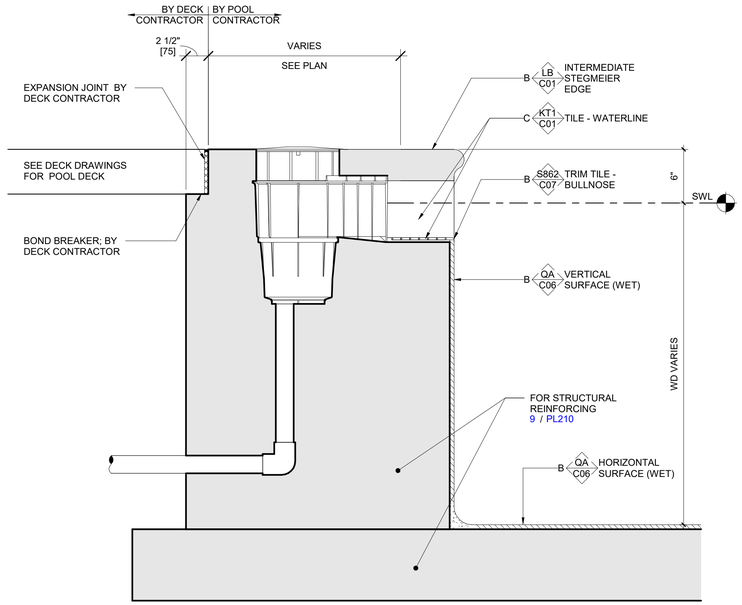
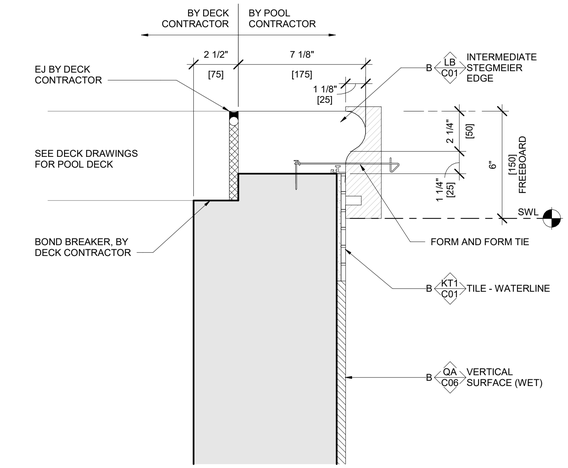


6 PL122 POOL WALL/DECK TRANSITION DETAIL VIEW
3" = 1'-0"

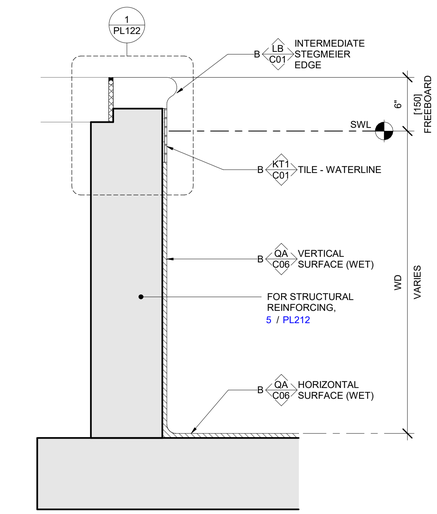




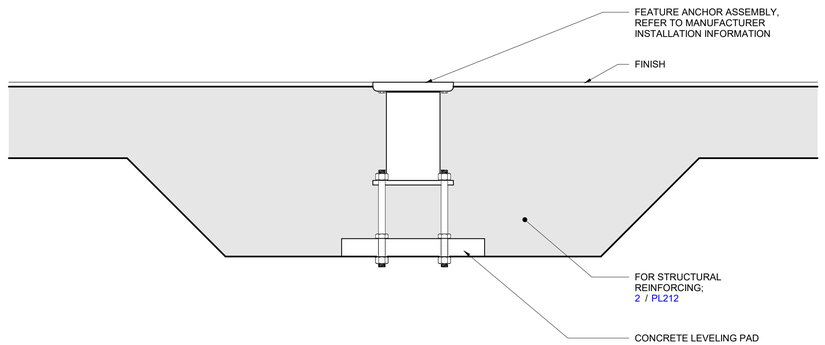
4 PL122 POOL WALL DETAIL VIEW
1 1/2" = 1'-0"



1 PL122 POOL WALL - FORMED EDGE DETAIL VIEW
3" = 1'-0"



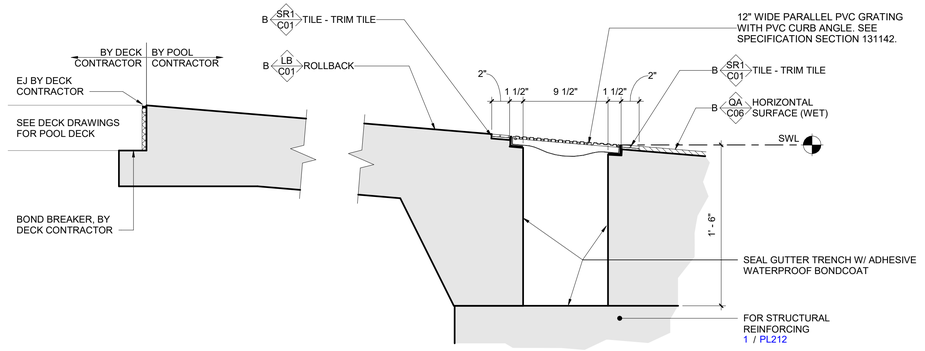
2 PL122 POOL WALL - FORMED EDGE DETAIL VIEW
1 1/2" = 1'-0"



SECTION VIEW

NOTES:
1. FOR COMPLETE INSTALL DETAILS REFER TO WATERPLAY ASSEMBLY DOCUMENTS.

5 PL122 ACTIVITY INSTALLATION DETAIL VIEW
1 1/2" = 1'-0"



3 PL122 POOL WALL - ROLLBACK DETAIL VIEW
1 1/2" = 1'-0"

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POL B - WADING POOL DETAILS

PL122

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DESIGN IS IN ACCORDANCE WITH THE TOWN OF SUPERIOR AND THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED TO DATE.

NOTE

STRUCTURAL DRAWINGS AND POOL DRAWINGS MUST BE USED IN CONJUNCTION WITH EACH OTHER. POOL DRAWINGS DICTATE ALL FINAL CONDITIONS OF POOL, FEATURES, AND DIMENSIONS OF POOL SHELL, INCLUDING POOL FINISH. UNLESS OTHERWISE INDICATED, STRUCTURAL DIMENSIONS ARE CONCRETE TO CONCRETE, AND DICTATE REQUIRED THICKNESSES FOR STRUCTURAL INTEGRITY ONLY.

GEOTECHNICAL PARAMETERS

ASSUMED SOIL PARAMETERS FOR POOL STRUCTURAL DESIGN

1. POOL DESIGNED FOR THE EMPTY AND FULL CONDITIONS
2. IF ANY OF THE CRITERIA LISTED BELOW ARE NOT MET THEN THE POOL'S STRUCTURAL DESIGN SHOULD BE RE-EVALUATED BY THE POOL STRUCTURAL ENGINEER. ANY REMEDIATION WHICH MAY BE NECESSARY TO ACHIEVE THESE ASSUMED PARAMETERS ARE BEYOND THE SCOPE OF THE POOL DESIGNER. REFER TO SITE/CIVIL FOR ALL SUBGRADE PREPARATION BELOW THE POOL BASE LAYER.

- POOLS ASSUMED TO BE CONSTRUCTION ON-GRADE
- SOIL BEARING CAPACITY 2,500 PSF MINIMUM
- AT-REST EQUIVALENT FLUID PRESSURE 55 PSF/FT MAXIMUM
- SOIL GROUNDWATER TABLE ELEVATION BELOW BOTTOM OF POOL FLOOR
- SETTLEMENT AND/OR PVR DOES NOT EXCEED 1/2" TOTAL MOVEMENT AND 1/4" DIFFERENTIAL MOVEMENT

STRUCTURAL AND REINFORCEMENT NOTES

STRUCTURAL NOTES

1. REINFORCEMENT AT WALL CORNERS AND WALL BENDS SHALL BE DETAILED PER THE ASSOCIATED TYPICAL DETAILS. CORNER AND BEND BARS SHALL BE THE SAME SIZE AND SPACING AS THE TYPICAL HORIZONTAL WALL REINFORCING OF THE ASSOCIATED WALLS.
2. UNLESS OTHERWISE INDICATED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS. UNLESS OTHERWISE INDICATED, CONTRACTOR MAY SPLICE CONTINUOUS SLAB BARS AT LOCATIONS OF THEIR CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MID-SPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE INDICATED, SHALL SATISFY THE MINIMUM REQUIREMENTS FOR CLASS B SPLICES.
3. FOR REINFORCEMENT AT WALL OR FLOOR SLAB PENETRATIONS, SEE 2 / PL200
4. MINIMUM POURED CONCRETE DESIGN STRENGTH = 4500 PSI, MINIMUM SHOTCRETE DESIGN STRENGTH = 5000 PSI
5. CONCRETE IN POOL "A" SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE, PER SPECIFICATIONS.

REINFORCEMENT NOTES: 60KSI, A615, DEFORMED BARS

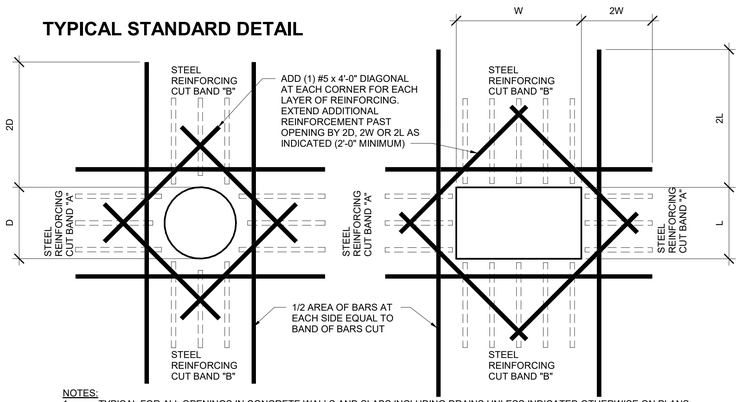
1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. TIE POOL REINFORCING STEEL WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE CRSI 63 RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ALL TIE WIRES SHALL BE "MADE TIGHT" FOR ELECTRICAL BONDING PURPOSES, AS REQUIRED PER 4 / PL101.
5. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. REINFORCING IN SINGLE MAT SECTIONS SHALL BE CENTERED IN THE SECTION, UNLESS SHOWN OTHERWISE IN DETAILS.

REINFORCING STEEL MINIMUM CLEAR COVER REQUIREMENTS
COORDINATE WITH REINFORCEMENT STEEL PLACING REQUIREMENTS

1. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2. 2" TYPICAL ALL ELSE, UNLESS NOTED OTHERWISE ON DETAILS

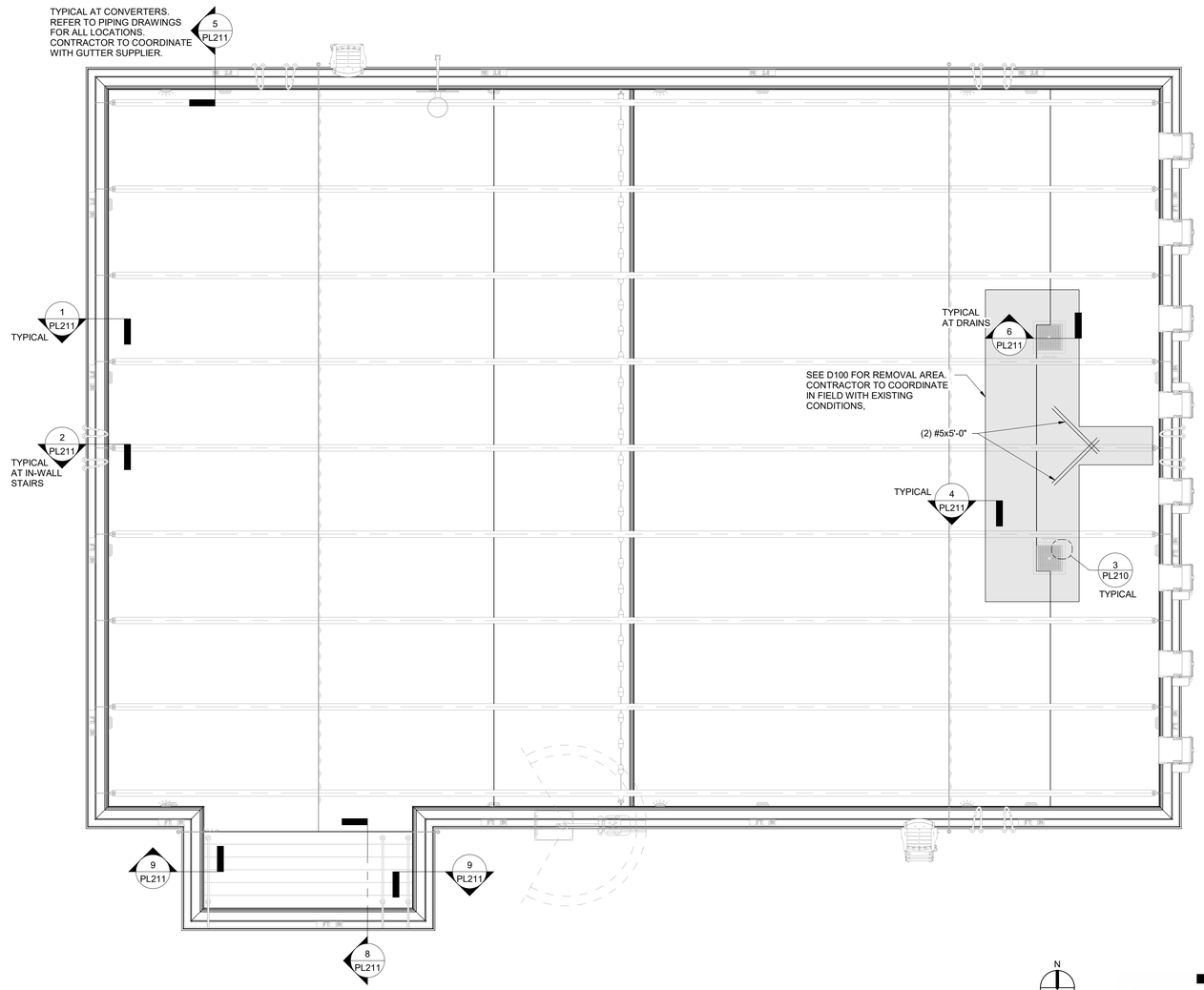
REINFORCEMENT CLASS "B" LAP LENGTHS
BASED UPON 4500 PSI CONCRETE AND 60 KSI REINFORCING STEEL

TYPICAL STANDARD DETAIL



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS.
4. PROVIDE MINIMUM LAP AS NOTED OR SHOWN ON PLANS (TYPICAL).

2 PL200 | REINFORCING - REINFORCEMENT AT OPENINGS DETAIL VIEW
NTS



1 PL200 | POOL A - EXISTING LAP POOL STRUCTURAL PLAN VIEW
3/16" = 1'-0"

GRÄEF
Project Number: 2025-2000.48
Phone 920 / 592 9440

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED PROFESSIONAL ENGINEER
DAWNA L. KRATSCHMER
36170
11/19/2025

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
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Checked By:	SAC

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STRUCTURAL NOTES AND PLAN(S)

PL200

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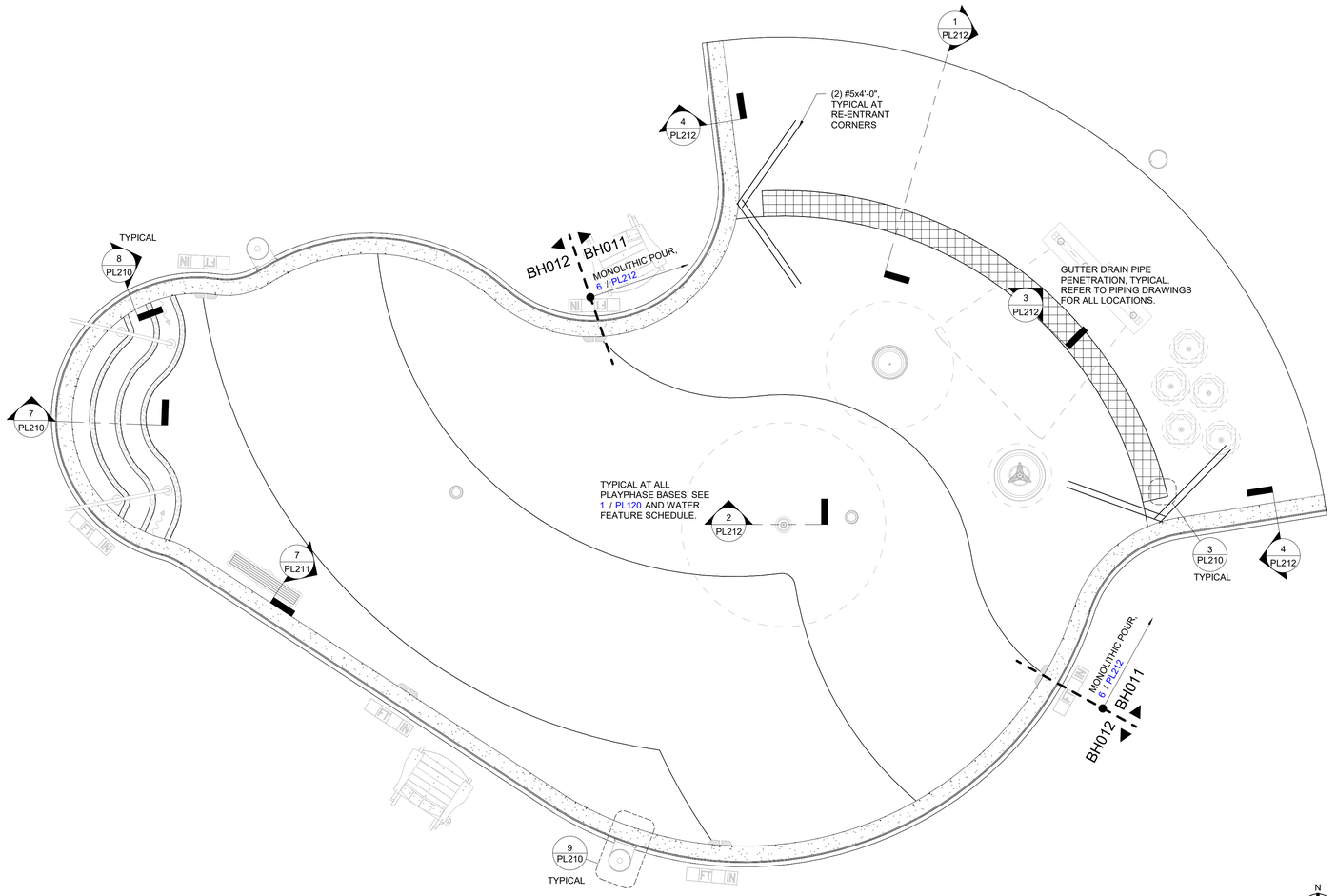
SCHEDULE - STRUCTURAL REQUIREMENTS

Detail	Pool ID	APPLICABLE STRUCTURAL WALL HEIGHT RANGE (FOR PLAN REFERENCE ONLY)			WALL						FLOOR				
					A				B	C	D			E	F
		Wall Height Range ID	Minimum Applicable Wall Height	Maximum Applicable Wall Height	Thickness	# of Mats of Reinforcement	Horizontal Reinforcement	Vertical Reinforcement	Freeboard Height	Backfill Thickness	Thickness	# of Mats of Reinforcement	Reinforcement	Bedding Course Thickness	Heel
B															
5 / PL212	B	H011	0'-0"	1'-0"	0'-8"	1	#4@8" OC	#4@8" OC	VARIES	1'-0" MIN	0'-8"	1	#4@8" OC EW	1'-0" MIN	NA
5 / PL212	B	H012	1'-0"	2'-0"	0'-8"	1	#4@8" OC	#4@8" OC	0'-6"	1'-0" MIN	0'-8"	1	#4@8" OC EW	1'-0" MIN	0'-6"

SCHEDULE NOTES
* WHEN A SECTION CONTAINS ONLY ONE MAT OF REINFORCING, THE REINFORCING STEEL SHALL BE CENTERED IN THE SECTION

SCHEDULE ABBREVIATIONS:
OC ON CENTER
EF EACH FACE
FF FRONT FACE
BF BACK FACE
EW EACH WAY



1 PL201 POOL B - WADING POOL STRUCTURAL PLAN VIEW
3/8" = 1'-0"

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DAWNA L KRATSCHMER
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STRUCTURAL PLAN(S) AND SCHEDULE

PL201

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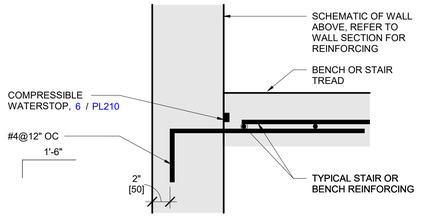
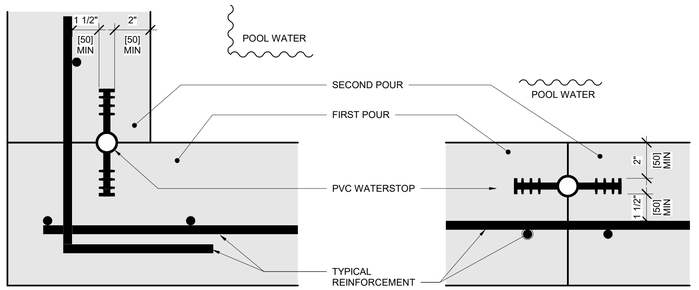


8 | PL210 | REINFORCING - BENCH & STAIR INTERSECTION DETAIL VIEW
NOT TO SCALE

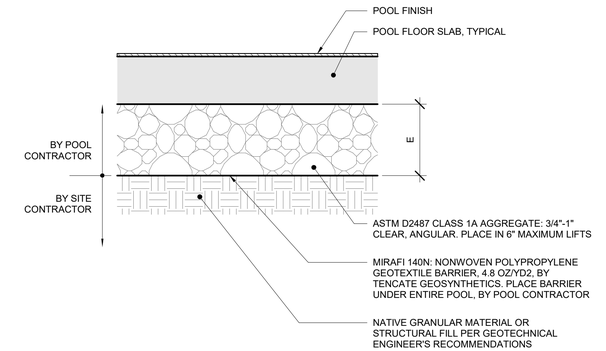


SECTION B-B FLOOR / WALL JOINT

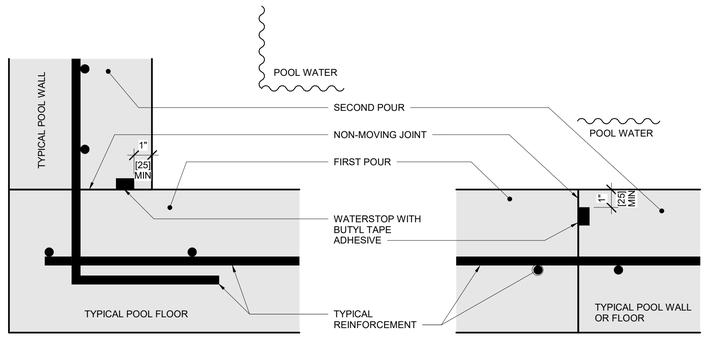
SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTES:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. WATERSTOP SHALL BE 6" PVC RIBBED WITH 1" DIA CENTERBULB UNLESS NOTED OTHERWISE.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. ALL WATERSTOPS SHALL BE WELDED PER MANUFACTURER'S REQUIREMENTS.
5. SPACING BETWEEN REINFORCING STEEL AND WATERSTOP SHALL BE NO LESS THAN 1.5 x DIA OF THE LARGEST AGGREGATE IN THE APPROVED CONCRETE MIX.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

5 | PL210 | WATERSTOP - PVC DETAIL VIEW
NOT TO SCALE



1 | PL210 | FLOOR SUB BASE DETAIL VIEW
NOT TO SCALE

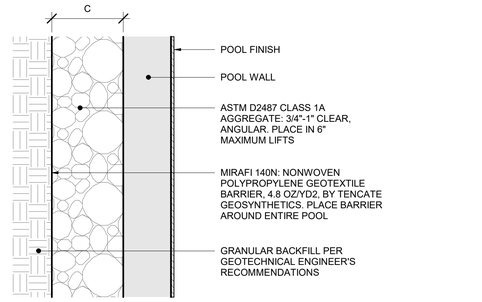


SECTION B-B FLOOR / WALL JOINT

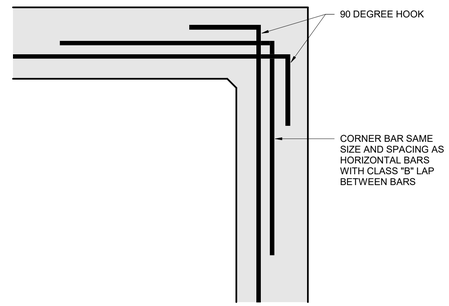
SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTE:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. BASIS OF DESIGN IS TYPE KBA-1510FP WATERSTOP BY ADEKA. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. NOTE THAT CLEARANCES FOR SUBSTITUTIONS MAY DIFFER. REFER TO MANUFACTURER REQUIREMENTS.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
5. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

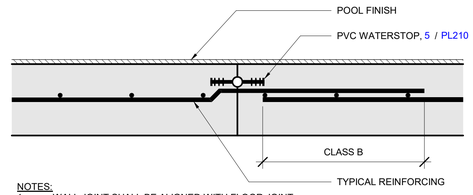
6 | PL210 | WATERSTOP - COMPRESSIBLE NON-MOVING JOINT - ADEKA DETAIL VIEW
NOT TO SCALE



2 | PL210 | POOL WALL BACKFILL DETAIL VIEW
NOT TO SCALE

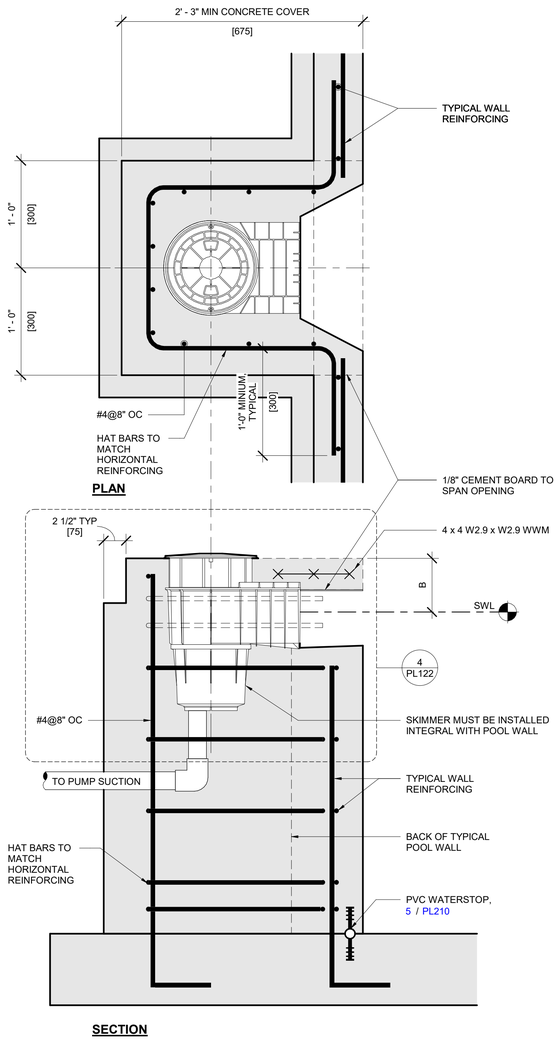


3 | PL210 | REINFORCING - SINGLE MAT REINFORCING AT CORNER DETAIL VIEW
NOT TO SCALE

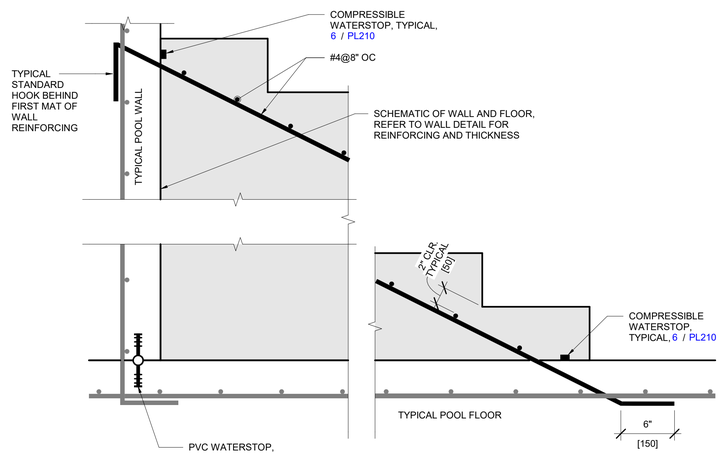


NOTES:
1. WALL JOINT SHALL BE ALIGNED WITH FLOOR JOINT
2. SEE POOL FINISH SCHEDULE

4 | PL210 | REINFORCING - CONSTRUCTION JOINT DETAIL VIEW
NOT TO SCALE



9 | PL210 | REINFORCING - SKIMMER DETAIL VIEW
NOT TO SCALE



7 | PL210 | REINFORCING DETAIL - STAIR DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED PROFESSIONAL ENGINEER — TAYNA L. KRATSCHMER — 36170 — 11/14/2025

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	AMZ
Checked By:	SAC

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STRUCTURAL GENERAL DETAILS

PL210

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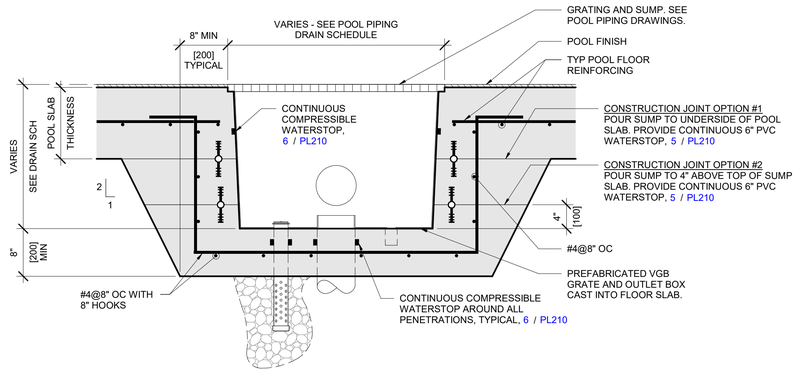
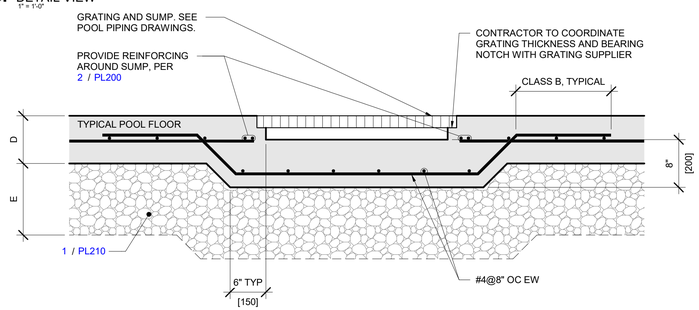
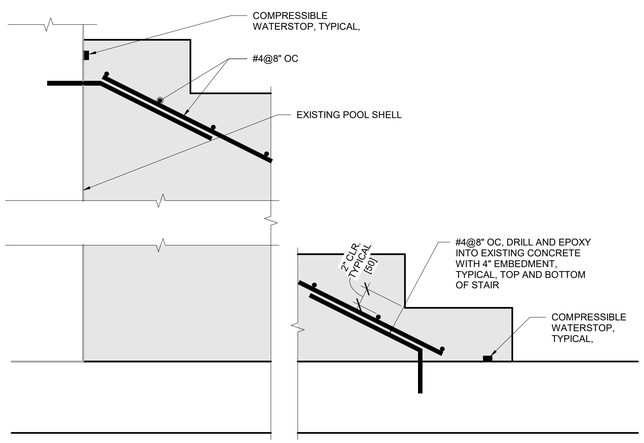


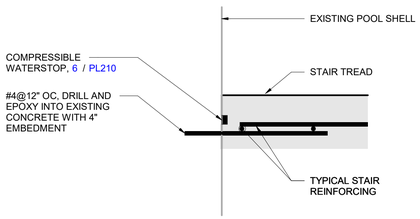
6 PL211 REINFORCING - FLOOR OUTLET DETAIL VIEW
1" = 1'-0"



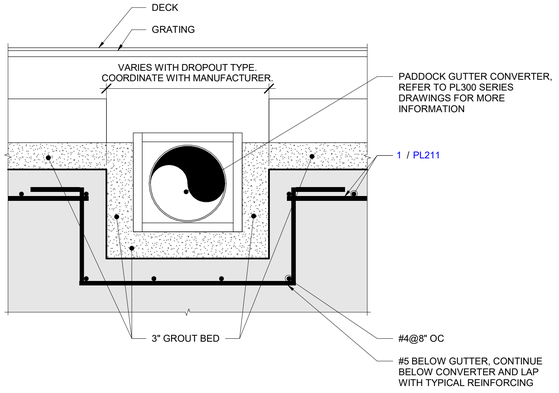
7 PL211 REINFORCING - POOL SUMP DETAIL VIEW
1" = 1'-0"



8 PL211 REINFORCING DETAIL - STAIR AT EXISTING POOL SHELL DETAIL VIEW
1 1/2" = 1'-0"

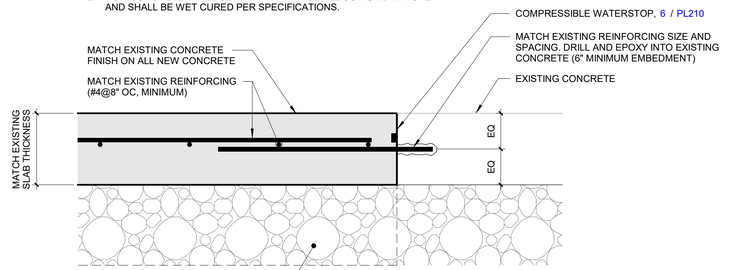


9 PL211 REINFORCING -STAIR INTERSECTION AT EXISTING POOL SHELL DETAIL VIEW
1 1/2" = 1'-0"



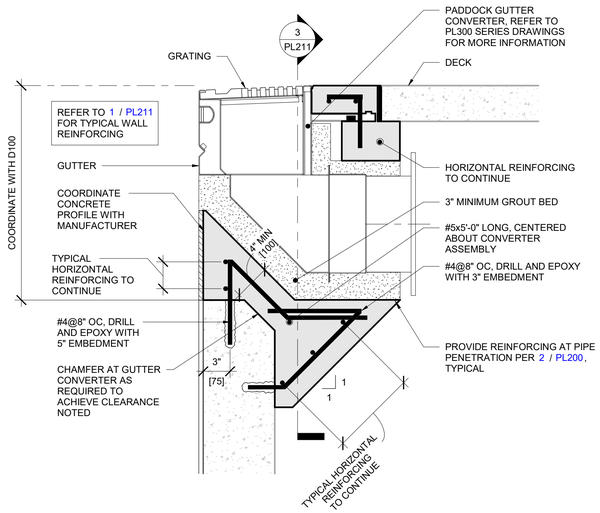
3 PL211 REINFORCING - GUTTER CONVERTER DETAIL VIEW
1 1/2" = 1'-0"

NOTES:
1. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
2. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE AND SHALL BE WET CURED PER SPECIFICATIONS.

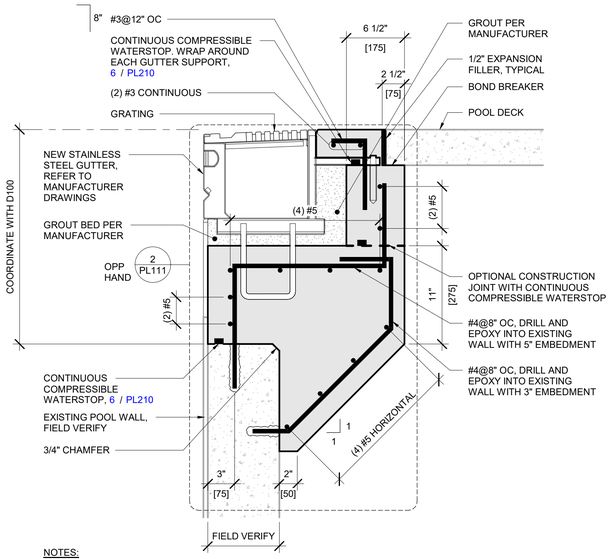


NOTE:
CONFIGURATION OF CONSTRUCTION MAY VARY FROM WHAT IS SHOWN. CONTRACTOR TO NOTIFY POOL ENGINEER IF EXISTING SLAB CONTAINS MORE THAN (1) MAT OF REINFORCING.

4 PL211 REINFORCING - EXISTING TO NEW POOL FLOOR TRANSITION DETAIL VIEW
1 1/2" = 1'-0"

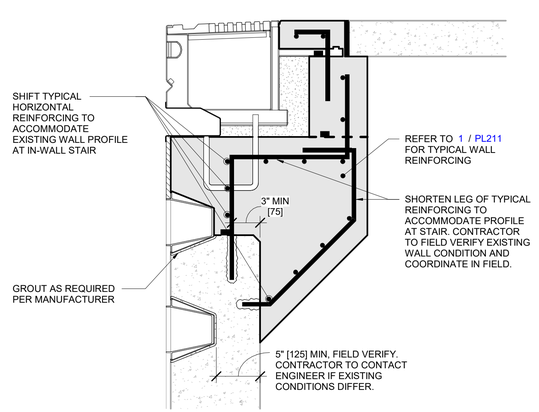


5 PL211 REINFORCING - GUTTER CONVERTER - (PO OR RETURN) DETAIL VIEW
1 1/2" = 1'-0"



NOTES:
1. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.
2. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE AND SHALL BE WET CURED PER SPECIFICATIONS.

1 PL211 REINFORCING - TYPICAL GUTTER INSTALLATION DETAIL VIEW
1 1/2" = 1'-0"



2 PL211 REINFORCING - CYCOLAC RECESSED STEP DETAIL VIEW
1 1/2" = 1'-0"

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Superior North Pool Reno

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COLORADO LICENSED
CARMINA KRATSCH ZEPEDA
36170
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PROFESSIONAL ENGINEER

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PL211

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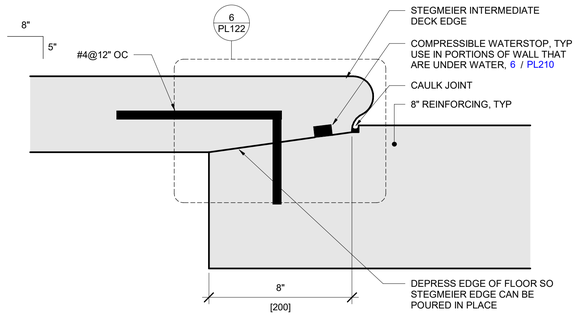
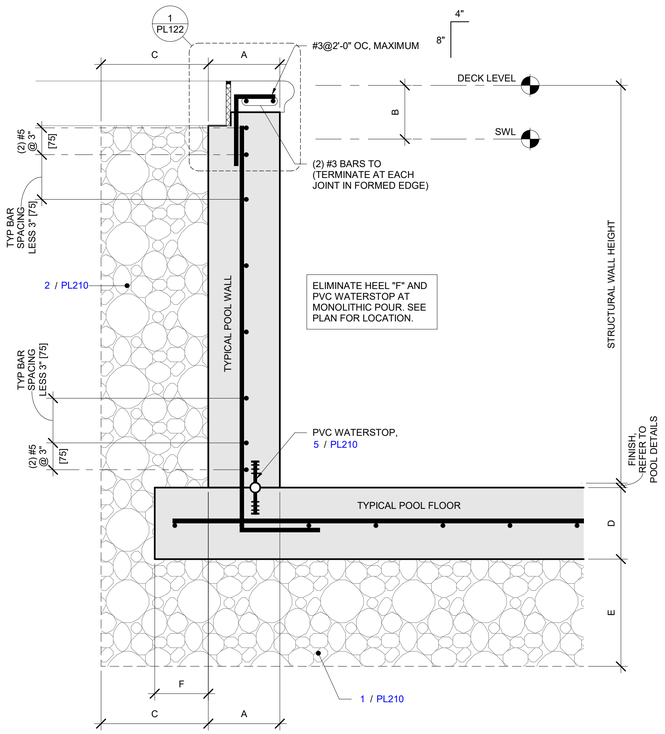
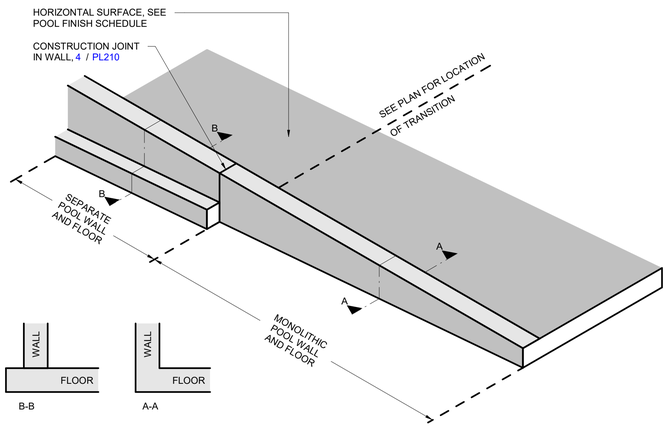


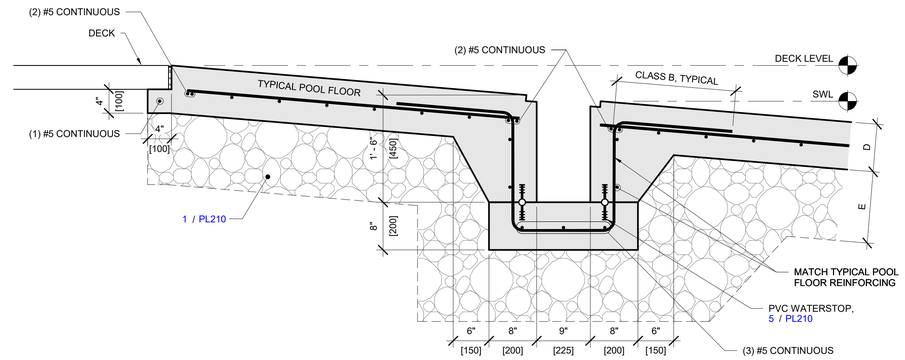
4 PL212 REINFORCING - POOL WALL/DECK TRANSITION
DETAIL VIEW
3" = 1'-0"



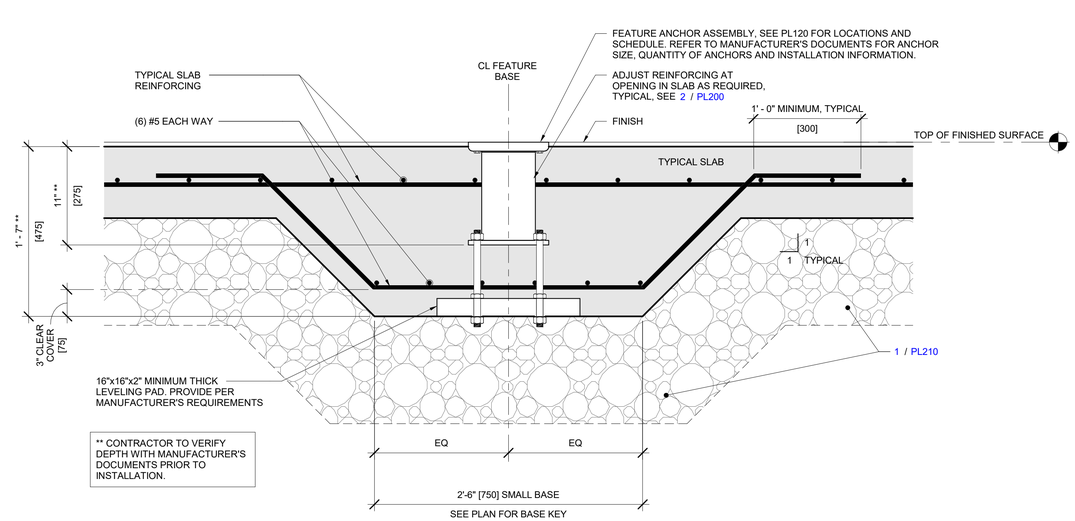
5 PL212 REINFORCING - SKIMMER WALL
DETAIL VIEW
1 1/2" = 1'-0"



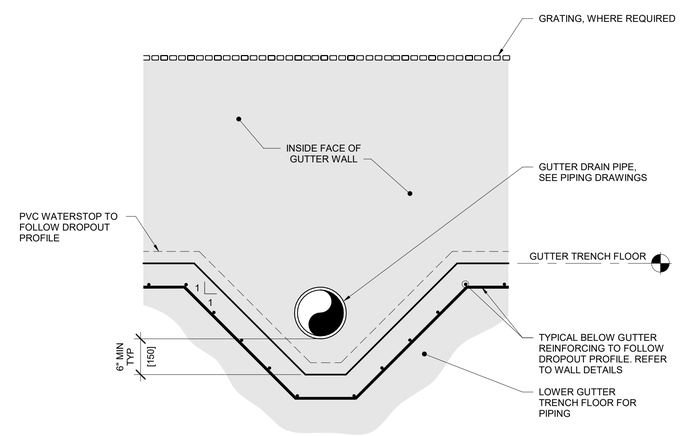
6 PL212 REINFORCING - TRANSITION - MONOLITHIC POUR
DETAIL VIEW
NTS



1 PL213 REINFORCING - ROLLBACK
DETAIL VIEW
1" = 1'-0"



2 PL213 REINFORCING - WATERPLAY PLAYPHASE BASE
DETAIL VIEW
1 1/2" = 1'-0"



3 PL213 REINFORCING - GUTTER DRAIN PIPE PENETRATION
PLAN VIEW
1" = 1'-0"

BARKER RINKER SEACAT ARCHITECTURE
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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
TAWNA L. KRATSCHMER
36170
11/14/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	AMZ
Checked By:	SAC

Revisions:

Description	Date:

Sheet title:
STRUCTURAL DETAILS

GRÄEF
Project Number: 2025-2000.48
Phone 920 / 592 9440

PL212

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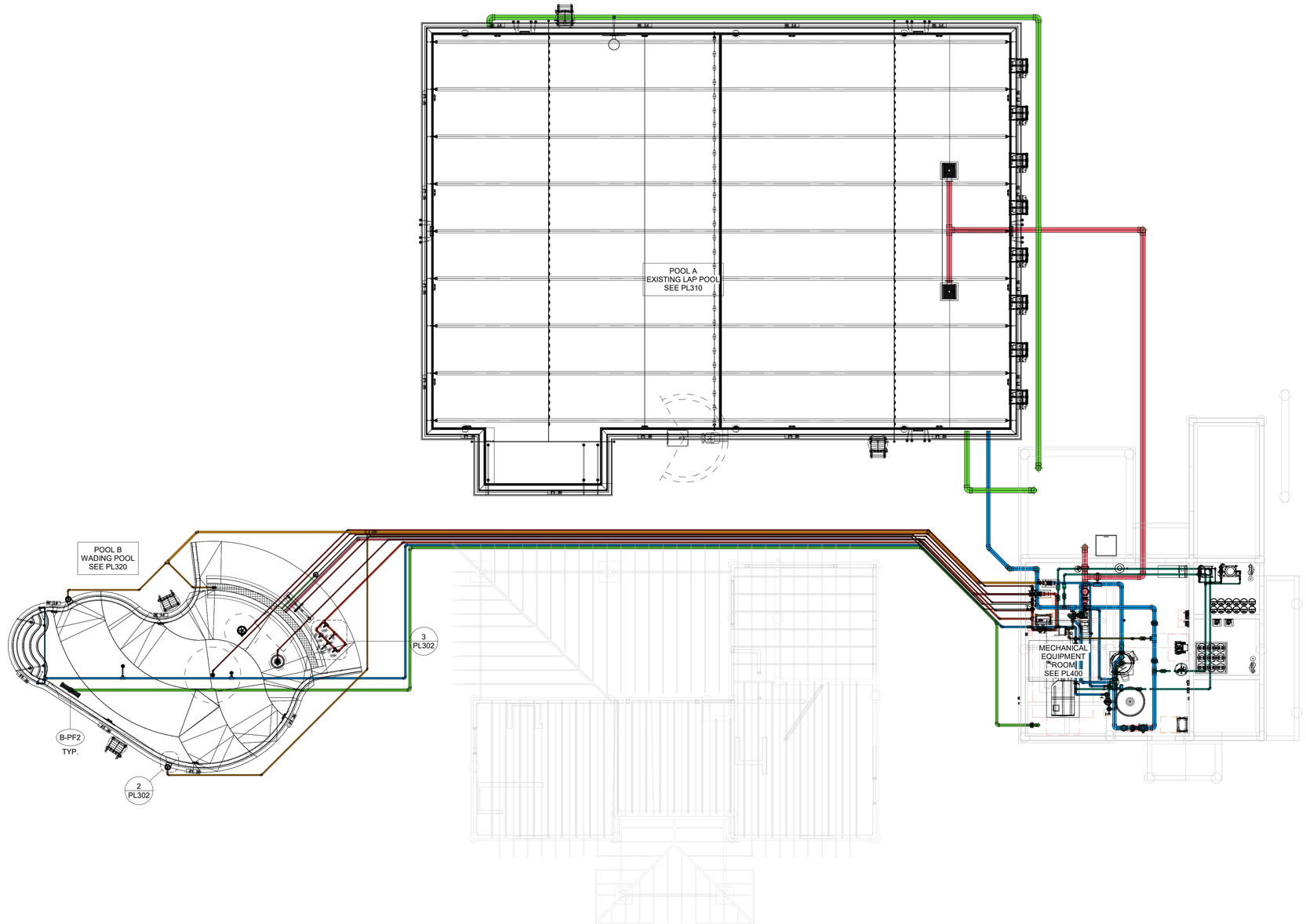
DRAIN SCHEDULE

DRAIN / GRATE ID	DETAIL #	DRAIN/GRATE MFGR SPECIFICATIONS						DESIGN DATA					
		MFGR & MODEL #	DIMENSIONS		OPEN AREA		MAX ALLOWABLE FLOW PER GRATE	CONNECTED PUMPS	SYSTEM TOTAL DESIGN FLOW	DRAIN / GRATE...	FLOW PER GRATE	VELOCITY	SYSTEM MAXIMUM	
			WIDTH	LENGTH	PER GRATE	TOTAL							FLOW PER GRATE	VELOCITY
			(ft)	(ft)	(in2)	(in2)	(gpm)		(gpm)		(gpm)	(fps)	(gpm)	(fps)
A-PF1		PADDOCK: 2424ESMD-8"	2.0	2.0	219.60	439.20	920.00	P1A	589	2	295	0.43	425	0.62
B-PF1		PADDOCK: LINEAR DRAIN 5" WIDTH, 4" CONN	3.0	1.5	183.93	183.93	859.87	MAINTENANCE DRAIN ONLY	28	1	28	0.05	28	0.05

NOTE: THE SYSTEM MAXIMUM FLOW RATE AND VELOCITY HAS BEEN DETERMINED BY USING THE FLOW RATE AT THE END OF THE PUMP MANUFACTURER'S PUMP CURVE. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.



1 PL300 OVERALL PIPING PLAN
PLAN VIEW
1/8" = 1'-0"

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FREEBER
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	Author
Checked By:	Checker

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OVERALL PIPING PLAN

PL300

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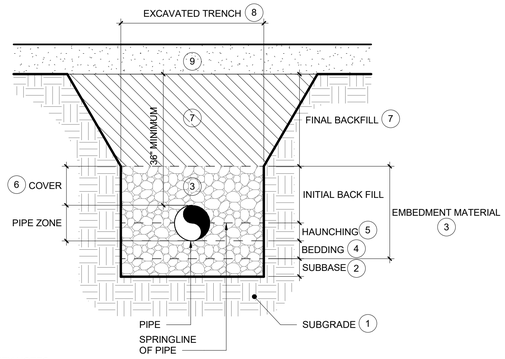
PIPING LEGEND

PIPE DESCRIPTION	PIPE COLOR
ACTIVITY PIPING:	
AIR PIPING:	
AUTOFILL PIPING:	
AUTOFILL SENSOR PIPING:	
CHEMICAL PIPING:	
FILTRATION PIPING:	
GRAVITY PIPING:	
HEAT PIPING:	
JET PIPING:	
PROPULSION PIPING:	
SKIMMER PIPING:	
SLIDE PIPING:	
SUCTION PIPING:	

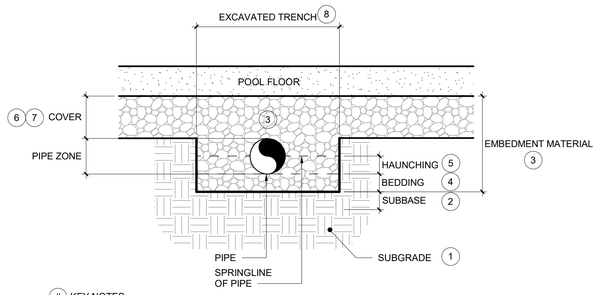
MECHANICAL P&ID SYMBOL LEGEND

EQUIPMENT TYPE	SECTION VIEW	PLAN VIEW
PUMP		
PUMP WITH INTEGRAL STRAINER		
STRAINER		
REGENERATIVE MEDIA FILTER		
HIGH RATE SAND FILTER (HORIZONTAL)		
HIGH RATE SAND FILTER (VERTICAL)		
POOL HEATER		
HEAT EXCHANGER		
UV UNIT		
CHEMICAL CONTROLLER		
CHEMICAL FEED PUMP		
PULSAR CHLORINE FEEDER		
AXIALL CHLORINE FEEDER		
AXIALL ACID FEEDER (ACID RITE)		
CO2 FEEDER		
CHEMICAL STORAGE TANK		
CO2 STORAGE TANK		
AUTO FILL WITH SENSOR		
SURGE TANK VENTILATION FAN		
GEAR OPERATED BUTTERFLY VALVE	G	
LEVER OPERATED BUTTERFLY VALVE		
PNEUMATIC BUTTERFLY VALVE		
TRUE UNION BALL VALVE		
TRUE UNION CHECK VALVE		
ELECTRONIC MODULATING VALVE	M	
ELECTRO-PNEUMATIC MODULATING VALVE	P	
MODULATING FLOAT VALVE		
VENTURI		
SOLENOID VALVE	S	
CHECK VALVE		
WYE STRAINER		
CONCENTRIC REDUCER		
ECCENTRIC REDUCER		
FLANGED BREAK		
COMPOUND GAUGE		
THERMOMETER		
EXPANSION JOINT		
FLOW METER (SENSOR)	FM	
FLOWVIS FLOMETER / CHECK VALVE	FM	
FLOW SWITCH	FS	



(#) KEY NOTES:
1. SUBGRADE: MINIMIZE DISTURBANCE OF EXISTING SOILS ON SIDES AND BELOW PIPE TRENCH DURING EXCAVATION. CLEAR SUBGRADE OF LARGE STONES & ORGANIC MATERIALS.
2. SUBBASE MATERIALS: REQUIRED ONLY IF EXISTING SUBGRADE CONTAINS UNSUITABLE SOILS AND/OR DOES NOT MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR UTILITY TRENCHES.
3. EMBEDMENT MATERIALS: ASTM D2487 CLASS 1A OR 1B AGGREGATE, 1.5" MAXIMUM SIZE.
4. BEDDING: MINIMUM 6 INCH THICK AGGREGATE LAYER.
5. HAUNCHING: PLACE AND COMPACT HAUNCHING MATERIALS UNDER AND AROUND PIPE/S UP TO THE PIPE SPRINGLINE BY HAND TO ASSURE CONTINUOUS AND EFFECTIVE PIPE SUPPORT.
6. COVER: MINIMUM 6 INCHES ABOVE TOP OF PIPE.
7. FINAL BACKFILL: USE ON-SITE EXISTING SOILS MEETING THE PROJECT GEOTECHNICAL REPORT REQUIREMENTS FOR BACKFILL MATERIALS. DO NOT USE ORGANIC MATERIAL, CLAY, TOPSOIL, OR OTHER DELETERIOUS SUBSTANCES. SLOPE TRENCH EXCAVATION IN FINAL BACKFILL ZONE AS NEEDED.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6" - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.
9. FINAL GRADE MATERIALS: SEE RELATED PROJECT DRAWINGS AND SPECIFICATIONS FOR SOIL MATERIALS AND PLACEMENT REQUIREMENTS AT FINAL GRADE ELEVATIONS (E.G. DECK, CIVIL, LANDSCAPE, ETC. DRAWINGS).

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.
C. COORDINATE WITH OTHER TRADES AS NEEDED TO ASSURE FOOTING/FOUNDATIONS ABOVE DO NOT LOAD THE PIPES. MAINTAIN PROPER CLEARANCES TO PREVENT UNDERMINING OF ADJACENT FOOTINGS/FOUNDATIONS.



(#) KEY NOTES:
1. SUBGRADE: MINIMIZE DISTURBANCE OF EXISTING SOILS ON SIDES AND BELOW PIPE TRENCH DURING EXCAVATION. CLEAR SUBGRADE OF LARGE STONES & ORGANIC MATERIALS.
2. SUBBASE MATERIALS: REQUIRED ONLY IF EXISTING SUBGRADE CONTAINS UNSUITABLE SOILS AND/OR DOES NOT MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR UTILITY TRENCHES.
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5. HAUNCHING: PLACE AND COMPACT HAUNCHING MATERIALS UNDER AND AROUND PIPE/S UP TO THE PIPE SPRINGLINE BY HAND TO ASSURE CONTINUOUS AND EFFECTIVE PIPE SUPPORT.
6. COVER: MINIMUM 6 INCHES ABOVE TOP OF PIPE.
7. POOL BEDDING COURSE/SUBBASE. SEE PL200 FOR REQUIREMENTS.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6 - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.

GENERAL POOL PIPING AND EQUIPMENT PLAN NOTES

PIPING

1. THE PIPING LAYOUTS ON THESE DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. PIPING AS SHOWN IS SPREAD OUT FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL PIPE ROUTING AND ELEVATIONS.
2. REDUCE THE USE OF FITTINGS AND LONG PIPE RUNS TO MINIMIZE HEAD LOSS IN THE SYSTEM.
3. ALL OUTDOOR PIPING SHALL BE INSTALLED IN A PIPE TRENCH WITH BEDDING AND COVER MATERIALS PER SPECIFICATIONS. PIPING MAY BE STACKED IN THE PIPE TRENCH. PER PL301-1 AND 2.
4. ARROWS DENOTE DIRECTION OF FLOW.
5. REFER TO ALL DISCIPLINES DOCUMENTATION AND COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
6. ALL GRAVITY PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1" DROP PER 10' LENGTH. ALL OUTDOOR PIPING SHALL BE INSTALLED WITH A SLOPE TO ALLOW COMPLETE DRAINING. PROVIDE WINTERIZING/DRAINING INSTRUCTIONS AND SCHEMATICS TO OWNER.
7. CONTRACTOR SHALL USE SWING JOINTS OR OTHER MEANS AND METHODS AS REQUIRED TO PROVIDE POOL INLET FITTINGS FLUSH AND PERPENDICULAR WITH THE POOL FLOOR AND AS REQUIRED FOR PROPER SLOPE TO DRAIN FOR WINTERIZATION.
8. SUPPORT PIPES PER PL405-5 THRU 10.
9. ALL SUPPORTS, BRACING, FASTENERS AND HARDWARE IN THE SURGE TANK(S) SHALL BE STAINLESS STEEL.
10. THE INTENT OF THESE DRAWINGS IS NOT TO BE INCLUSIVE OF ALL VALVES OR FITTINGS REQUIRED FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL VALVES AND FITTINGS REQUIRED.

PIPE PENETRATIONS

1. SEE BUILDING STRUCTURAL DRAWINGS FOR ALL WALL DIMENSIONS AND WALL/REINFORCING STEEL DIMENSIONS AND DETAILS, INCLUDING REINFORCING REQUIREMENTS AROUND ALL PIPE PENETRATIONS.
2. THE POOL CONTRACTOR SHALL FURNISH ALL SLEEVES FOR THE PENETRATIONS SHOWN ON THE POOL DRAWINGS.
3. THE SLEEVES SHALL BE INSTALLED BY THE BUILDING CONTRACTOR DURING THE STEEL AND FORMWORK PLACEMENT. BUILDING CONTRACTOR SHALL COORDINATE WITH THE POOL CONTRACTOR DURING PLACEMENT AND OBTAIN SLEEVE LOCATION APPROVAL FROM THE POOL CONTRACTOR PRIOR TO POURING THE WALLS.
4. THE POOL CONTRACTOR SHALL PROVIDE ALL LINK-SEALS REQUIRED IN THE PIPE PENETRATIONS
5. ALL PIPE PENETRATION DRAWINGS AND DIMENSIONS ARE SPECIFIC TO THE WTI BASIS OF DESIGN POOL EQUIPMENT AND LAYOUTS AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL PENETRATION LOCATIONS AND SIZES BASED ON ENGINEER APPROVED EQUIPMENT SELECTIONS AND ACTUAL SITE CONDITIONS. PROVIDE SHOP DRAWINGS TO POOL ENGINEER
6. REFER TO PL403-8 FOR REINFORCEMENT AT PIPE PENETRATIONS.
7. REFER TO STRUCTURAL DRAWINGS FOR FUTURE CORED OPENINGS.
8. SEE PENETRATION SCHEDULE FOR ALL PIPE PENETRATIONS SHOWN IN THE ELEVATION DETAILS ON PL600.

MECHANICAL EQUIPMENT

1. CONTRACTOR SHALL PROVIDE EQUIPMENT LAYOUTS PER PLANS. IF ALTERNATE LAYOUT IS REQUESTED, CONTRACTOR SHALL PROVIDE SCALED DRAWING LAYOUT FOR REVIEW INDICATING POOL EQUIPMENT, PIPING, PIPE SUPPORTS, REQUIRED CLERANCES, AND SERVICE ACCESS.
2. REFER TO ARCHITECTURAL PLANS FOR ACTUAL ROOM DIMENSIONS AND FINISHED FLOOR ELEVATIONS.
3. VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER
4. PROVIDE MINIMUM 30" SERVICE ACCESS BETWEEN PUMPS. CONTRACTOR SHALL PROVIDE THE GREATER OF MANUFACTURER OR CODE REQUIRED CLEARANCES AROUND AND ABOVE ALL OTHER POOL EQUIPMENT.
5. HEATER FLOW IS MINIMUM PROVIDED BY MANUFACTURER.

POOL CHEMICAL STORAGE AND PIPING NOTES

1. ALL CHEMICAL ROOM DOORS AND CONTAINERS SHALL BE PROVIDED WITH SIGNAGE AS REQUIRED BY FIRE CODE. SEE ARCHITECTURAL DRAWING FOR THE DOOR LABEL REQUIREMENTS.
2. PROVIDE ALL CHEMICAL FEED PUMPS WITH "TUBE FAILURE DETECTION". THIS TECHNOLOGY DETECTS TUBING FAILURE AND WILL AUTOMATICALLY SHUT OFF THE PUMP AND ENERGIZE A RELAY. INSTALL RELAY TO PERMIT COMMUNICATIONS WITH THE CHEMICAL CONTROLLER SO THAT THE OPERATOR CAN BE NOTIFIED OF THE PUMP STATUS BEING IN AN ALARM/OFF CONDITION.
3. DO NOT LOCATE CHEMICAL INJECTION POINTS ABOVE DOORWAY, CHEMICAL FEED PUMPS, OR ELECTRICAL OUTLETS.
4. ALL CHEMICALS TO BE STORED PER MANUFACTURER'S RECOMMENDATIONS.
5. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
6. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
7. PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
8. EACH VALVE SHALL BE INSTALLED IN THE EQUIPMENT AREA AND LABELED AS TO ITS PURPOSE PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
9. PER SPECIFICATIONS SECTION 13 11 13, SUBMIT AN ELECTRONIC VERSION OF THE PIPE AND VALVE CHART FOR EACH PIPING SYSTEM TO THE ARCHITECT/ENGINEER FOR APPROVAL. CHART TO CONSIST OF ISOMETRIC DRAWINGS OR PIPING LAYOUTS SHOWING AND IDENTIFYING EACH VALVE AND DESCRIBING ITS FUNCTION. UPON COMPLETION OF THE WORK HANG IN A CONSPICUOUS LOCATION IN THE EQUIPMENT ROOM ONE (1) COPY OF EACH CHART TO A RIGID BACKBOARD WITH CLEAR LACQUER PLACED UNDER GLASS AND FRAMED.

PIPING NOTES

REFER TO DIVISION 13 SPECIFICATIONS FOR DETAILS

PIPING

A. ALL PIPING SHALL BE IN ACCORDANCE WITH THE COLORADO STATE PLUMBING CODE, COLORADO DEPARTMENT OF PUBLIC HEALTH CODE, THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
B. ALL PIPING DESIGNED FOR 6'/SECOND MAX SUCTION VELOCITY AND 8'/SECOND MAXIMUM PRESSURE VELOCITY.
C. MAIN DRAIN PIPING AND GUTTER PIPING ARE DESIGNED TO CARRY MINIMUM 100% OF THE RECIRCULATION RATE.
D. ALL PIPING MUST BE LAID ON A GRADE SO IT WILL DRAIN COMPLETELY BY GRAVITY TO PREVENT DAMAGE DURING FREEZING WEATHER. MAIN DRAIN LINE PIPING MUST BE LAID ON A GRADE SO THAT (A) ALL PIPING FROM BENEATH THE POOL TO THE ELEVATION CHANGE SHALL PITCH TO DRAIN TO THE POOL MAIN DRAIN SUMPS AND; (B) ALL PIPING FROM THE ELEVATION CHANGE TO THE SURGE TANK SHALL PITCH TO DRAIN TO THE SURGE TANK.
E. IN ALL INSTANCES WHERE GRAVITY DRAINAGE IS NOT PROVIDED THE CONTRACTOR SHALL INSTALL DRAIN VALVES SO THAT ALL LINES CAN BE DRAINED COMPLETELY TO SURGE TANK OR ANOTHER APPROVED LOCATION. DRAINAGE PLUGS SHALL BE PROVIDED IN THE PIPING SYSTEM TO ALLOW WINTERIZATION OF THE POOL PIPING.
F. CONTRACTOR SHALL PROVIDE OPERATION, FILLING, EMPTYING, WINTERIZATION, AND START-UP INSTRUCTIONS TO OWNER.
G. ALL ELEVATIONS TO BE FIELD VERIFIED FOR PROPER PITCH AND DRAINAGE. PITCH TO BE APPROXIMATELY 1"/10'-0".
H. POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE FITTING QUANTITY TO REDUCE TOTAL DYNAMIC HEAD.
I. ALL DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL LOCATIONS SHALL BE FIELD VERIFIED WITH ALL OTHER TRADES, BY CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, PLUMBING, AND CIVIL DRAWINGS.

DRAINS

A. ALL OVERFLOW AND MAIN DRAIN GRATING SYSTEMS ARE DESIGNED TO CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 1.5/SECOND THROUGH THE OPEN AREA OF THE GRATE.
B. OPEN AREA OF THE DRAIN GRATE SHALL BE AT LEAST FOUR TIMES THE AREA OF THE MAXIMUM CONNECTION SUCTION PIPE.
C. ALL SUBMERGED DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.
D. FILTER DRAIN/BACKWASH LINE, POOL DRAIN LINE, SURGE TANK DRAIN LINE, AND SURGE TANK OVERFLOW LINE TO DISCHARGE TO SEWER WITH AN AIR GAP COMPLIANT WITH LOCAL REQUIREMENTS.

GAUGES:

A. COMPOUND GAUGES TO BE INSTALLED ON ALL PUMP SUCTION AND DISCHARGE LINES.

VALVES:

A. PROVIDE GEAR-OPERATED SUBSURFACE BUTTERFLY VALVES WITH VALVE STEM EXTENSIONS FOR ALL POOL AND SURGE TANK DRAIN LINES.
B. EACH VALVE SHALL HAVE A PERMANENT IDENTIFYING LABEL OR TAG ATTACHED TO IT. THE SEQUENCE OF OPERATION, BRIEFLY STATED, SHALL BE PROMINENTLY DISPLAYED.

FLOW METERS:

A. FLOW METERS SHALL BE PROVIDED IN THE FILTRATION PUMP DISCHARGE LINE AND IN EACH INLET RETURN LINE, AS INDICATED ON THE DRAWINGS.
B. UNINTERRUPTED FLOW SHALL BE PROVIDED TO THE FLOWMETER BY INSTALLING THEM ON STRAIGHT LENGTHS OF PIPE WITHOUT ANY VALVES, ELBOWS, OR OTHER SOURCES OF TURBULENCE WITHIN MINIMUM 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF THE FLOW METERS OR INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
C. MAIN FLOW METER SHALL BE USED TO MONITOR BACKWASH RATE UNLESS OTHERWISE INDICATED IN THE DESIGN DRAWINGS.

FILTERS:

A. FILTERS SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTE DISCHARGE LINE (SAND) OR PRECOAT LINE (RM), AN AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER, AND A VALVED TANK DRAIN LINE.

HEATING SYSTEM:

A. SHALL BE EQUIPPED WITH THERMOMETERS MEASURING 80-240 DEGREES F WITH 2 DEGREE GRADUATIONS, AUTOMATIC TEMPERATURE LIMITING DEVICE, FLOW SWITCH, AND HEAT BYPASS VALVE.
B. ALL INFLUENT AND EFFLUENT HOT WATER PIPING TO BE PROVIDED WITH MATERIAL AS SCHEDULED.
C. POOL HEATER PRESSURE RELIEF VALVE TO BE PROVIDED AND PIPED WITHIN 6" OF FLOOR.
D. THE AUTOMATIC TEMPERATURE SWITCH ON THE BLENDED WATER SYSTEM SHALL BE SET FOR A MAXIMUM OF 110 DEGREES F.
E. FURNISH AND INSTALL THERMOMETERS IN HEATER INFLUENT AND EFFLUENT PIPING AND DOWNSTREAM IN THE BLENDED WATER SYSTEM.
F. HEATER THERMOSTAT SHALL BE INACCESSIBLE TO BATHERS.
G. VENTING OF COMBUSTION/VENTILATION AIR FOR GAS, OR OTHER FUEL-BURNING WATER HEATERS SHALL BE PROVIDED AS REQUIRED BY THE HEATER MANUFACTURER.

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED BRIAN W. FRIBERT P.E.0042920 11/19/2025 PROFESSIONAL ENGINEER

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MECHANICAL NOTES

PL301

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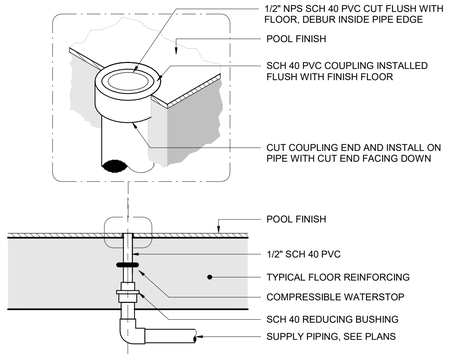
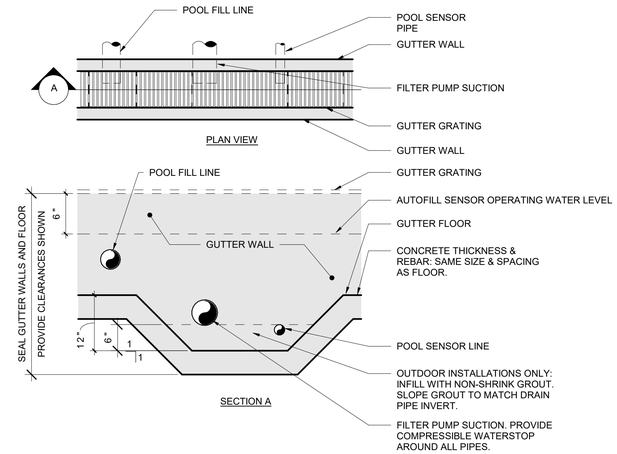
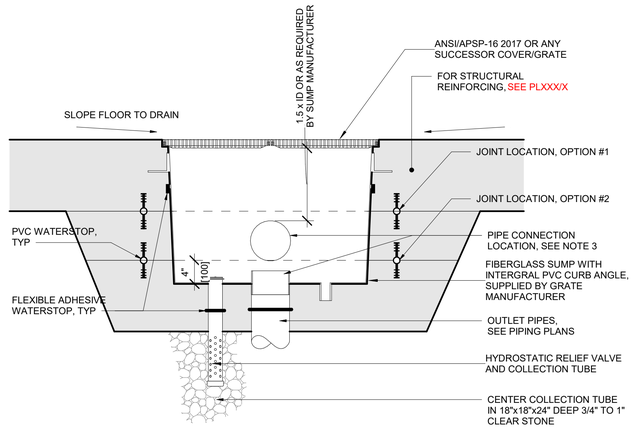


3 | PL302 GEYSER DETAIL
DETAIL VIEW
NOT TO SCALE

NOTES:
1. LOWER GUTTER FLOOR WHERE DRAIN PIPE PENTRATES WALL SO THAT COMPLETE DRAINAGE OF GUTTER IS PROVIDED
2. PROVIDE COMPRESSIBLE WATERSTOP AROUND EACH DRAIN PIPE AT GUTTER WALL PENETRATION.
3. PROVIDE 6" PVC BULB-TYPE WATERSTOP AT INTERSECTION OF GUTTER FLOOR AND GUTTER WALLS
4. PROVIDE CLEARANCES AROUND DRAIN PIPE AS INDICATED ON SECTION
5. SEAL GUTTER WALLS AND FLOOR WITH ADHESIVE WATERPROOF BONDCOAT.

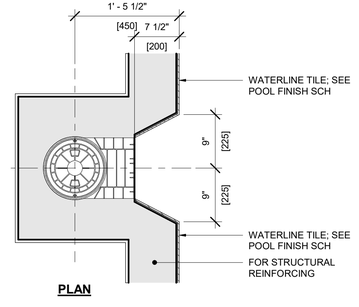


1 | PL302 GUTTER DRAIN PIPE PENETRATION WITH AUTOFILL
DETAIL VIEW
NOT TO SCALE

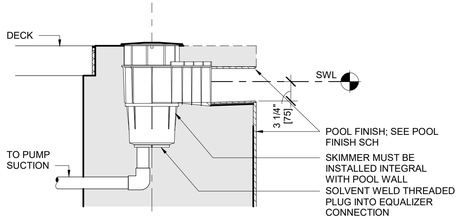


NOTES:
1. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD. VERIFY GRATE DIMENSIONS AND OUTLET REQUIREMENTS WITH GRATE/SUMP MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWINGS.
2. THE FIBERGLASS SUMP SHALL BE SUPPLIED WITH THE GRATE AS INDICATED IN THE DRAIN SCH. SUMP MATERIALS SHALL MEET OR EXCEED THE SCHEDULED MANUFACTURER'S SPECIFICATION: 8 OZ. FIBERGLASS MAT WITH MARINE GRADE WHITE GELCOAT AND 2" MINIMUM FRP WATERSTOP AROUND THE OUTSIDE PERIMETER.
3. AT CONTRACTOR'S OPTION, SUMP MAY HAVE BOTTOM OR SIDE OUTLET PIPE CONNECTION.
4. CONTRACTOR SHALL INCLUDE ALL POOL DRAIN/WINTERIZATION PIPE CONNECTIONS AS SHOWN ON PIPING DRAWINGS.
5. ALL SUMPS REQUIRE A MINIMUM OF ONE HYDROSTATIC RELIEF PORT AND 2" VALVE. (HAYWARD MODEL SP1056) WITH COLLECTION TUBE PER SUMP, UNLESS OTHERWISE NOTED. VERTICALLY INSTALLED SUMPS, ELEVATED POOLS AND/OR POOLS CONSTRUCTED ON A VOID FORM DO NOT REQUIRE A HYDROSTATIC RELIEF VALVE SYSTEM. UNUSED HYDROSTATIC PORTS SHALL BE PLUGGED.
6. SEE DRAIN SCHEDULE AND PIPE PLANS.
7. SECURE ALL GRATING TO DRAIN SUMP WITH CORROSION RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. FASTENERS SHALL NOT BE REMOVABLE WITHOUT THE USE OF A TOOL AND SHALL MEET ALL CURRENT ANSI/APSP/ICC-16 REQUIREMENTS. INSPECT ALL GRATING AND EACH FASTENER TO ASSURE THEY ARE IN PLACE AND PROPERLY SECURED PRIOR TO OPENING THE POOL FOR PUBLIC USE.
8. PROTECT DRAIN FROM EXTERNAL PRESSURE DURING INSTALLATION.
9. PROVIDE A REMOVABLE PLYWOOD AND A REUSABLE 1/4" PVC TOP COVER PROTECTOR WITH STAINLESS STEEL HARDWARE TO SHIELD THE INTERNALS OF EACH DRAIN SUMP FROM DEBRIS DURING CONSTRUCTION AND FOR FUTURE OWNER USE DURING WINTERIZATION AND/OR SHUTDOWN.
10. SUPPLY EACH SUMP CONNECTION PORT WITH A THREADED OR FLANGED ADAPTOR CONNECTION INSIDE THE SUMP. INCLUDE CORRESPONDING THREADED/FLANGED ADAPTOR PLUGS/FITTINGS AND STAINLESS STEEL HARDWARE FOR THE PURPOSES OF 50 PSI PRESSURE TESTING AND FUTURE WINTERIZATION AND/OR SHUTDOWN.
11. LOCATE ONE HORIZONTAL JOINT WITH CONTINUOUS PVC WATERSTOP IN THE CONCRETE SUMP AT EITHER LOCATION SHOWN ABOVE (OPTION #1 OR OPTION #2). INSTALL FLEXIBLE ADHESIVE WATERSTOPS AROUND THE FIBERGLASS SUMP AND EACH CONNECTING PIPE, PER SPECIFICATIONS.

4 | PL302 MAIN DRAIN - DALDORADO
DETAIL VIEW
NOT TO SCALE



PLAN



SECTION

SKIMMER SPECIFICATIONS:
1. SURFACE SKIMMER SHALL CONSIST OF A PRECISION MOLDED CYCOLAC HOUSING WITH A HEAVY DUTY COMPRESSION MOLDED THERMOSETTING PHENOLIC BASE.
2. THE BASE SHALL INCORPORATE TWO 2" NPT THREADED APERTURE WHICH SHALL ENABLE TESTING OF PIPING FROM INSIDE THE SKIMMER AS WELL AS EXTERNAL PIPE CONNECTIONS TO PUMP. BASE SHALL BE AN INTEGRAL PART OF THE SKIMMER BODY.
3. A 10" DIA NON-CORROSIVE, HEAVY DUTY, NON-SLIP DECK PLATE & FRAME SHALL BE PROVIDED FOR EASY ACCESS TO THE SKIMMER INTERIOR. THE FRAME SHALL BE MOLDED CYCOLAC & SHALL INCORPORATE A FLANGE BELOW DECK LEVEL FOR KEYING INTO CONCRETE & SHALL BE ADJUSTABLE TO PERMIT VARIATIONS IN HEIGHT & ANGLE OF DECK IN RELATION TO THE SKIMMER BODY. THE ACCESS PLATE SHALL BE MOLDED CYCOLAC & SHALL BE SECURED TO THE FRAME BY MEANS OF TWO SS SCREWS TO PREVENT VANDALISM.
4. THE SKIMMER THROAT SHALL HAVE AN INTEGRAL MOLDED WEIR STOP WITH A CUSHION ATTACHED. THE SKIMMER THROAT SHALL BE WITH AN 8" WIDE HEAVY DUTY MOLDED WEIR & HINGE WHICH AUTOMATICALLY ADJUSTS TO VARIATIONS IN POOL WATER LEVEL, WITHIN A 4" RANGE.
5. A REMOVABLE 7 1/2" DIA x 5 1/8" DEEP SYNTHETIC DEBRIS BASKET SHALL BE PROVIDED IN THE SKIMMER BODY.
6. A REMOVABLE FLOAT VALVE HOUSING ASSEMBLY SHALL BE REMOVED & DISCARDED.
7. AN ADJUSTABLE TRIMMER VALVE SHALL BE FITTED TO THE SKIMMER BASE TO PROVIDE AN ACCURATE FLOW ADJUSTMENT, THUS PERMITTING EQUALIZATION OF FLOW OF ALL SKIMMERS.
8. SURFACE SKIMMER SHALL BE COMMERICAL RENEGADE GUNITE IN-GROUND SKIMMER WITH NSF50 APPROVAL FOR 75 GPM FLOW RATE MANUFACTURED BY WATERWAY PLASTICS, CATALOG #540-6350. MATERIALS: MOLDED PVC PLASTIC SKIMMER WITH ROUND WHITE LID & FRAME. 2.5" SPIGOT x 2" NPT x 2" NPT CONNECTIONS. FLOAT/CHECK VALVE AND REMOVABLE CLEANING BASKET. PLUG EQUALIZER FITTING CONNECTION.

2 | PL302 SKIMMER PIPING
DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

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COLORADO LICENSED
BRIAN W. FREIBERG
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

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GENERAL PIPING DETAILS

PL302

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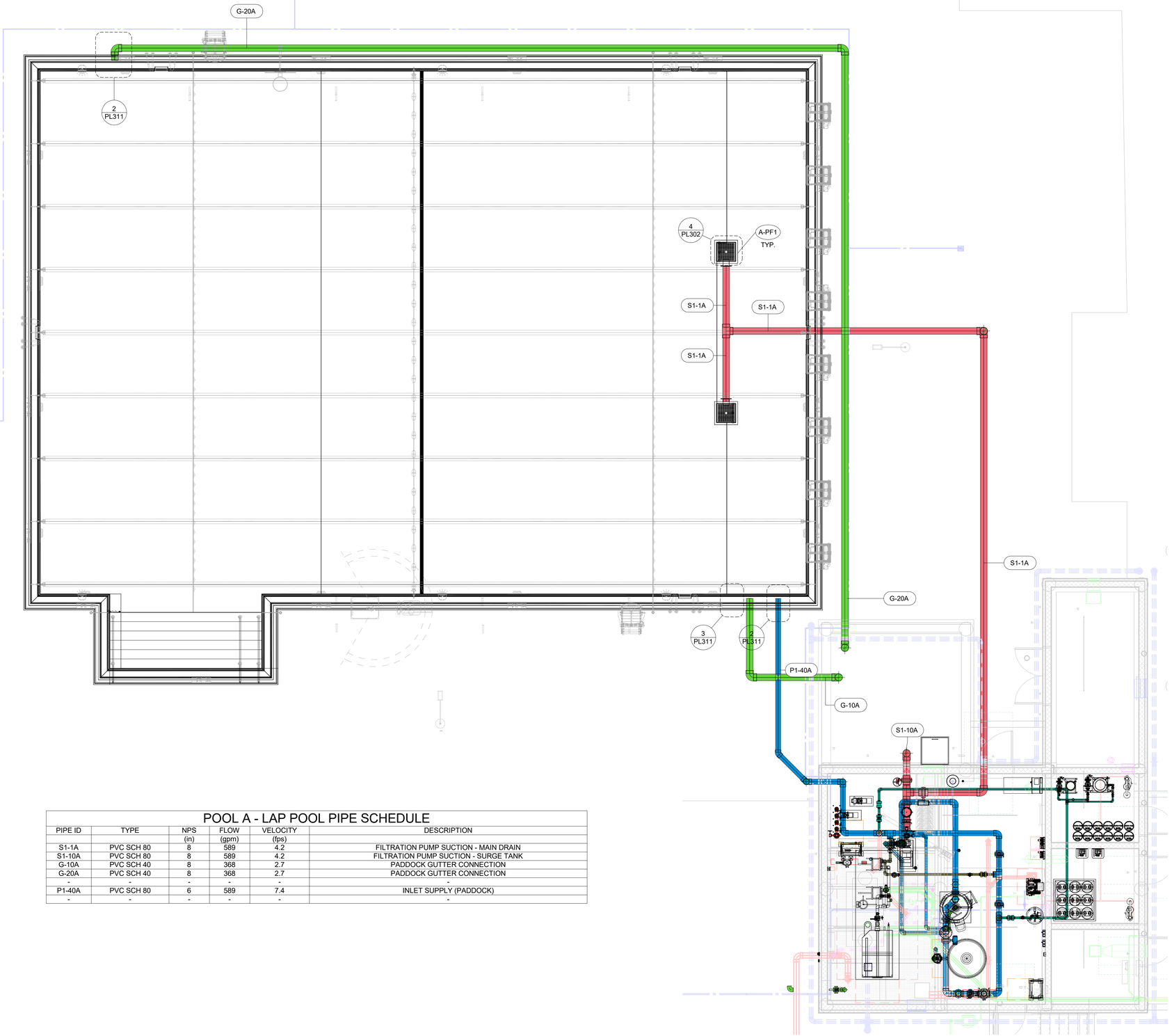

POOL A - LAP POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS	FLOW	VELOCITY	DESCRIPTION
		(in)	(gpm)	(fps)	
S1-1A	PVC SCH 80	8	589	4.2	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	PVC SCH 80	8	589	4.2	FILTRATION PUMP SUCTION - SURGE TANK
G-10A	PVC SCH 40	8	368	2.7	PADDOCK GUTTER CONNECTION
G-20A	PVC SCH 40	8	368	2.7	PADDOCK GUTTER CONNECTION
-	-	-	-	-	-
P1-40A	PVC SCH 80	6	589	7.4	INLET SUPPLY (PADDOCK)
-	-	-	-	-	-

1 PL310 POOL A PIPING PLAN
PLAN VIEW
3/16" = 1'-0"

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COLORADO LICENSED
BRIAN W. FREBER
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

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POOL A PIPING PLAN

PL310

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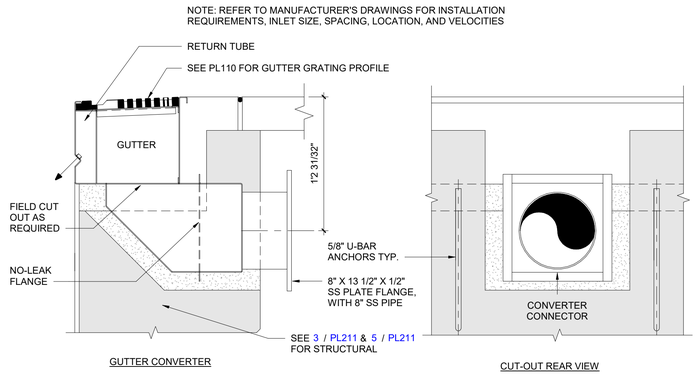
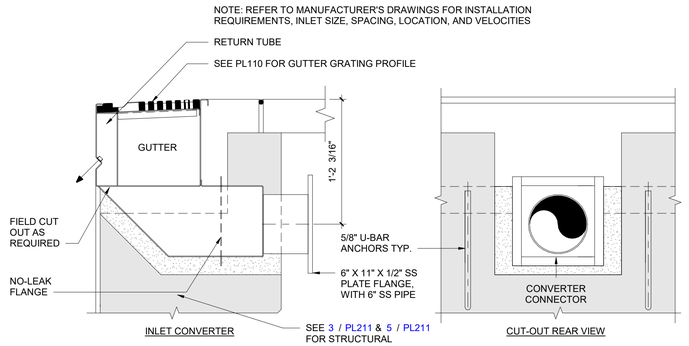
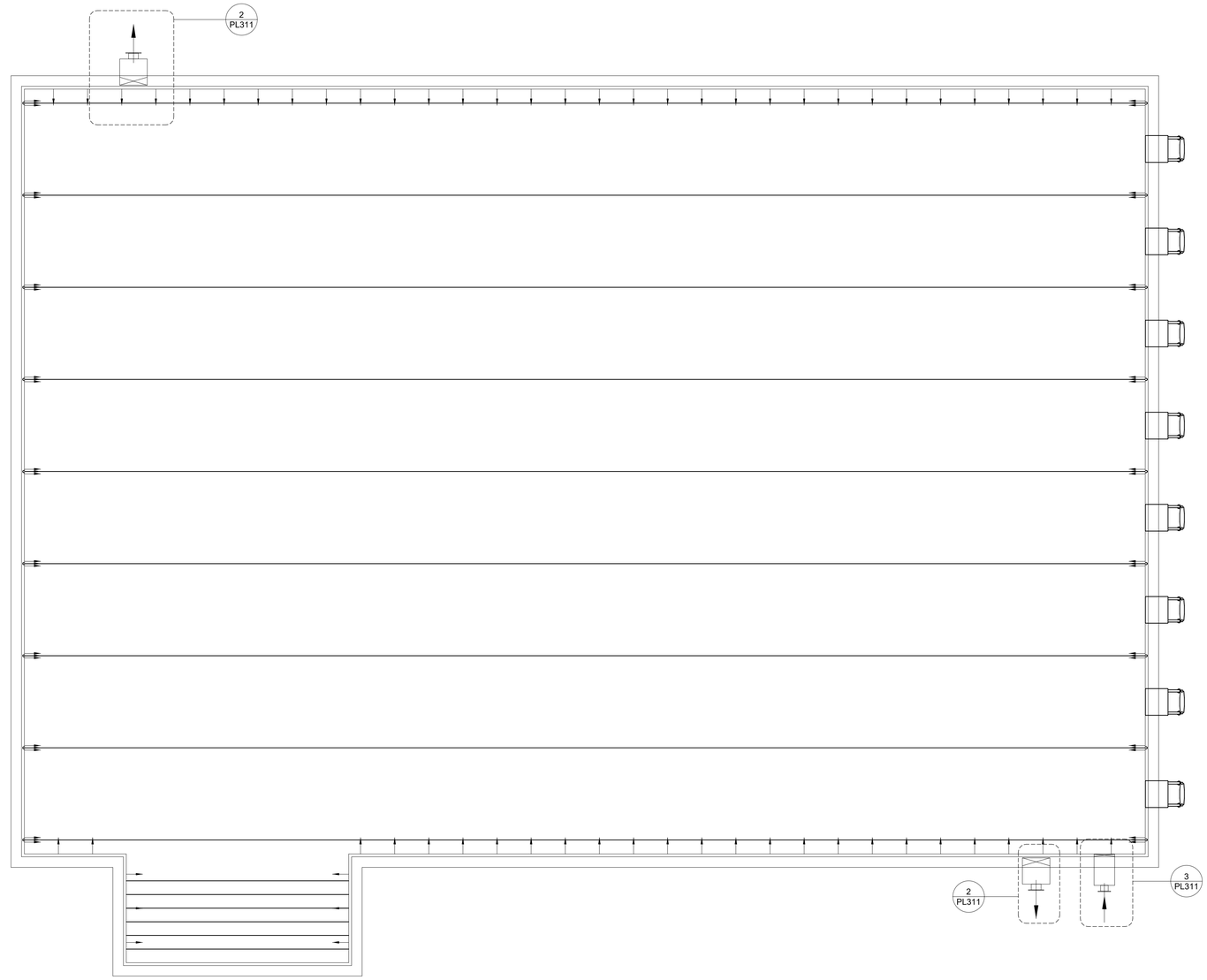


2 PL311 PADDOCK GUTTER CONVERTER PLAN VIEW
1 1/2" = 1'-0"



3 PL311 PADDOCK INLET CONVERTER PLAN VIEW
1 1/2" = 1'-0"

DATA CHART	
PERIMETER OVERFLOW FLOW RATE:	589 GPM
RETURN TUBE FLOW RATE:	439 GPM
GUTTER SYSTEM FLOW CAP.:	2748.69 GPM
FLOW CHANNEL SURGE CAP.:	984.27 GALLONS
GUTTER PERIMETER:	292' 3-3/4"
INLET QUANTITY:	117 INLETS
NOZZLE SIZE (DIAMETER):	.313"
FLOW RATE PER NOZZLE:	3.75 GPM
NOZZLE VELOCITY:	15.70 FT/SEC



1 PL311 POOL A PLAN VIEW PLAN VIEW
1/2" = 1'-0"

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POOL A PADDOCK PLAN

PL311

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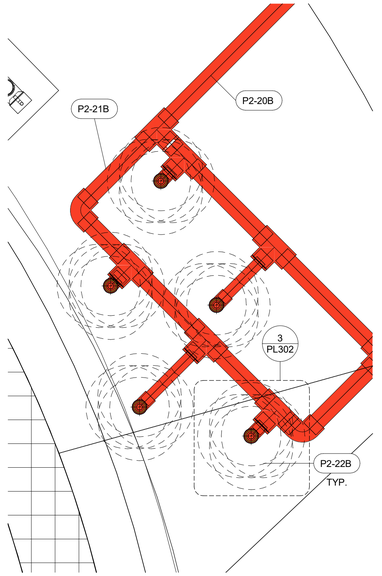
SCHEDULE - POOL B FIXTURES

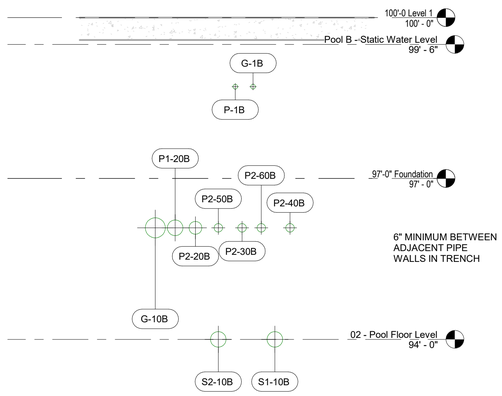
POOL ID	EQUIPMENT ID	FIXTURE	QTY.	MANUFACTURER	DESCRIPTION
B	PF 2	CHANNEL DRAIN	1	PADDOCK	TRENCH DRAIN
B	PF 3	SKIMMER	2	WATERWAY	COMMERCIAL RENEGADE GUNITE IN-GROUND SKIMMER WITH NSF50 APPROVAL FOR 75 GPM FLOW RATE. MANUFACTURED BY WATERWAY PLASTICS, CATALOG # 540-6360. MATERIALS: MOLDED PVC PLASTIC SKIMMER WITH ROUND WHITE LID & FRAME. 2.5" SPIGOT X 2" NPT x 2" NPT CONNECTIONS, FLOAT/CHECK VALVE AND REMOVABLE CLEANING BASKET. PLUG EQUALIZER FITTING CONNECTION.

POOL B - WADING POOL PIPE SCHEDULE

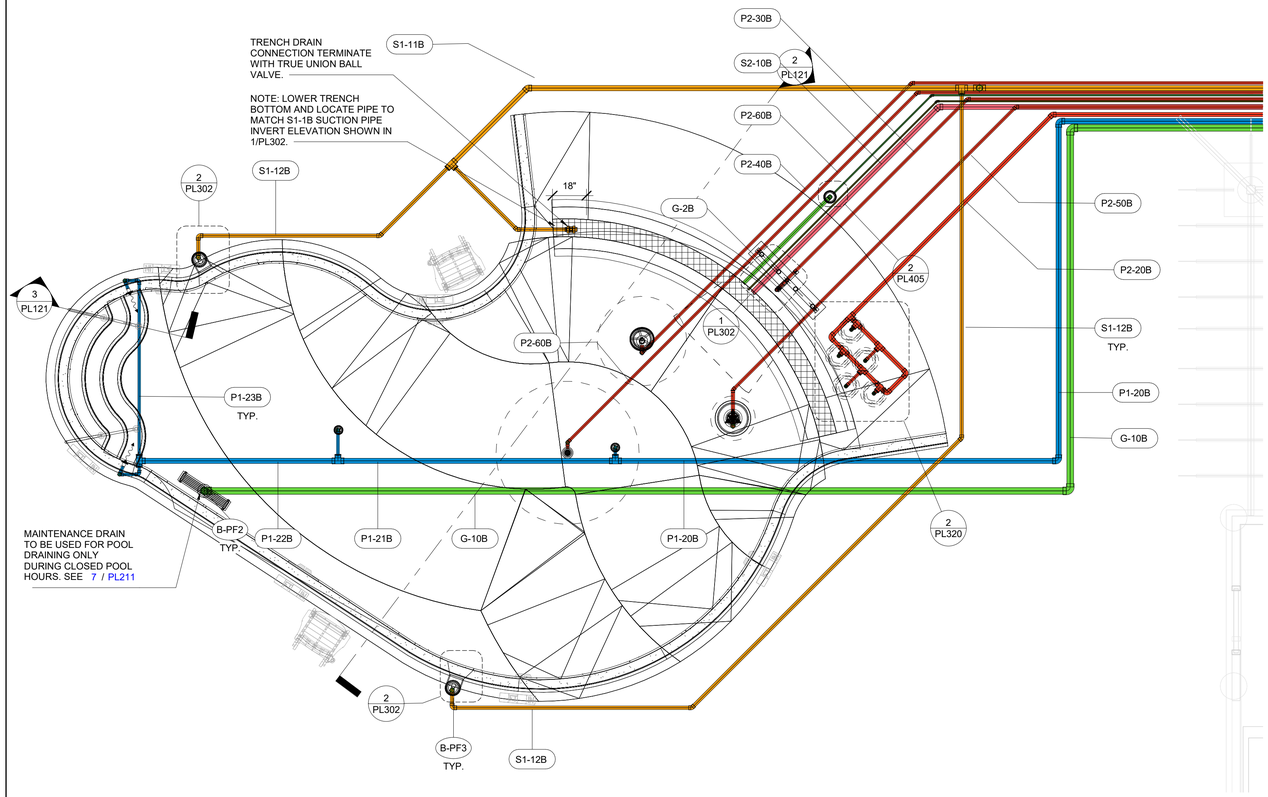
PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-10B	PVC SCH 80	4	139	4.0	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER
S1-11B	PVC SCH 80	3	93	4.6	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER
S1-12B	PVC SCH 80	2.5	46	3.6	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER CONNECTION TYPICAL OF 3
-	-	-	-	-	-
S2-10B	PVC SCH 80	4	120	3.4	ACTIVITY SUCTION
-	-	-	-	-	-
P1-20B	PVC SCH 80	3	139	6.9	INLET SUPPLY
P1-21B	PVC SCH 80	3	104	5.2	INLET SUPPLY
P1-22B	PVC SCH 80	2	70	7.8	INLET SUPPLY
P1-23B	PVC SCH 80	1.5	35	6.5	TYPICAL INLET SUPPLY CONNECTION
-	-	-	-	-	-
P2-20B	PVC SCH 80	2.5	75	5.8	GEYSER SUPPLY
P2-21B	PVC SCH 80	2.5	75	5.8	GEYSER SUPPLY LOOP
P2-22B	PVC SCH 80	1.5	15	2.8	GEYSER CONNECTION, TYP OF 5
P2-30B	PVC SCH 80	1.5	12	2.2	SPRAY TUNNEL 4
P2-40B	PVC SCH 80	1.5	8	1.5	FUN-GUY 4
P2-50B	PVC SCH 80	1.5	15	2.8	SLOSH 1
P2-60B	PVC SCH 80	1.5	10	1.9	WATER WEAVER
-	-	-	-	-	-
G-10B	PVC SCH 40	3	28	1.4	MAINTENANCE DRAIN PIPE
-	-	-	-	-	-
G-2B	PVC SCH 40	2	0	0.0	DECK WELL SENSOR PIPE
	-	-	-	-	-



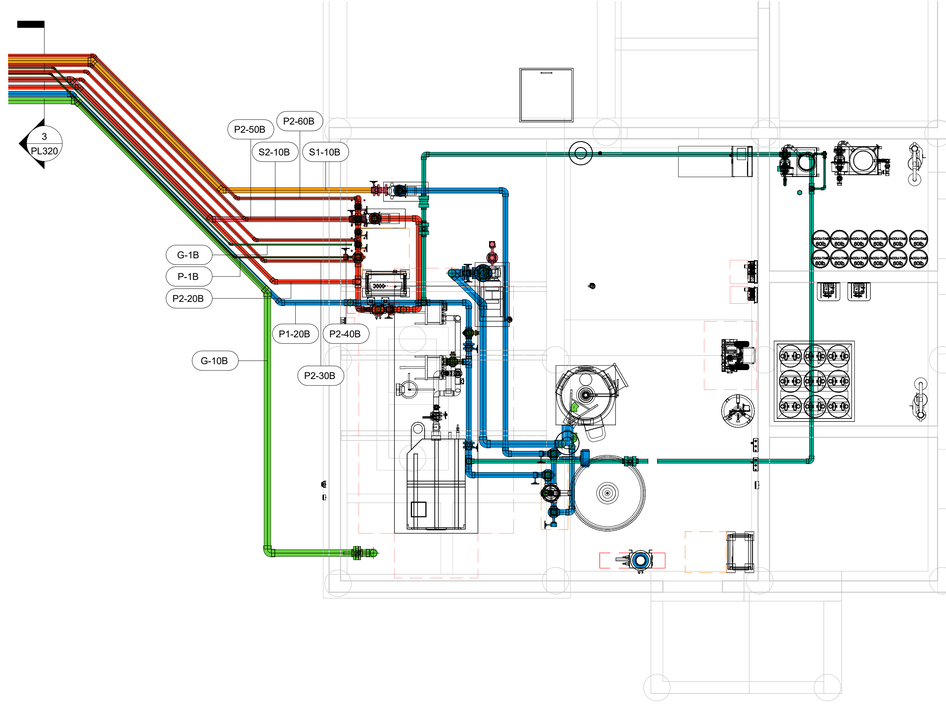
2 PL320 GEYSER PIPING PLAN VIEW
NOT TO SCALE



3 PL320 POOL B PIPE TRENCH SECTION VIEW
NOT TO SCALE



1 PL320 POOL B POOL PIPING PLAN
PLAN VIEW
1/4" = 1'-0"



4 PL320 POOL B MECHANICAL ROOM PIPING PLAN
PLAN VIEW
1/4" = 1'-0"

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COLORADO LICENSED
BRIAN W. FREIBER
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

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POOL B PIPING PLAN

PL320

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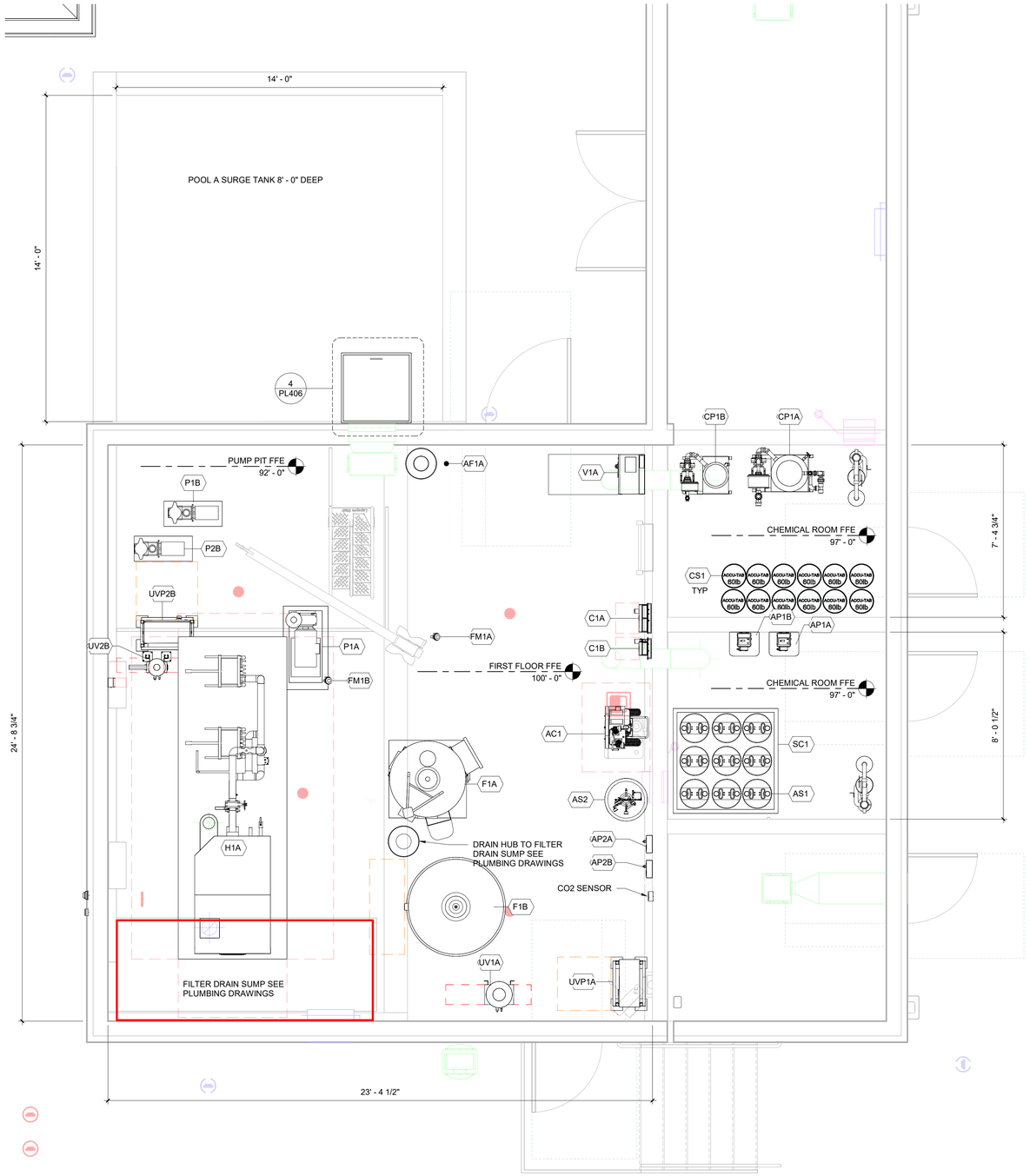

2 | FIRST FLOOR MECHANICAL ROOM EQUIPMENT PLAN
PL400 PLAN VIEW
3/8" = 1'-0"

POOL A-LAP POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	292	FEET
WATER SURFACE AREA	4,734	SQUARE FEET
POOL WATER TEMPERATURE	84	°F
POOL VOLUME	171,533	GALLONS
SURGE TANK OPERATING VOLUME	5,132	GALLONS
TOTAL VOLUME OF WATER	176,665	GALLONS
CIRCULATION RATE	589	GPM
TURNOVER/VOLUME/FLOW	300 MIN.	
NSF 50 FILTRATION RATE	1.13	GPM/FT²
FILTER DRAIN RATE	300	GPM
SURGE FACTOR	1.08	GAL/SQFT
AVAILABLE SURGE CAPACITY IN SURGE TANK	5132	GALLONS

POOL B-WADING POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	109	FEET
WATER SURFACE AREA	676	SQUARE FEET
POOL WATER TEMPERATURE	86	°F
POOL VOLUME	4,456	GALLONS
TOTAL VOLUME OF WATER	4,456	GALLONS
CIRCULATION RATE	139	GPM
TURNOVER/VOLUME/FLOW	32 MIN.	
NSF 50 FILTRATION RATE	11.78	GPM/FT²
BACKWASH FLOW	177	GPM

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COLORADO LICENSED
BRIAN W. FRISBEY
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

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MECHANICAL EQUIPMENT PLAN

PL400

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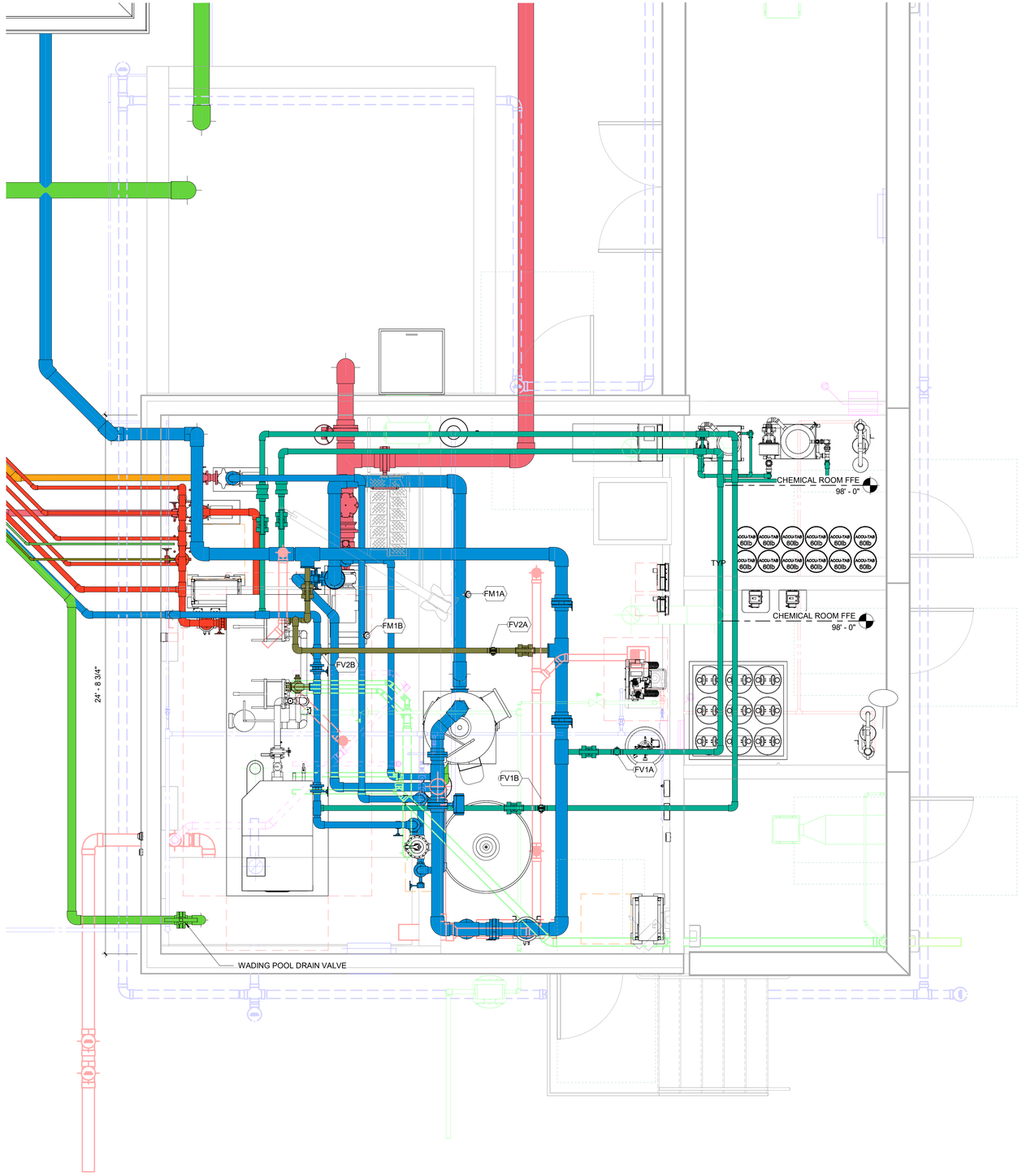
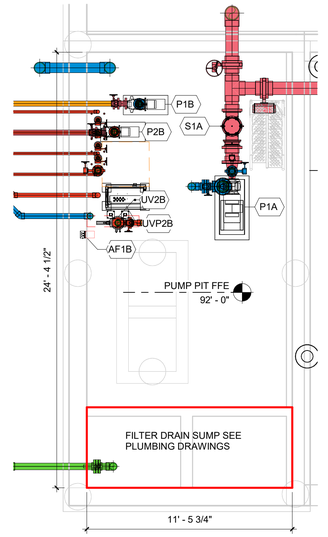
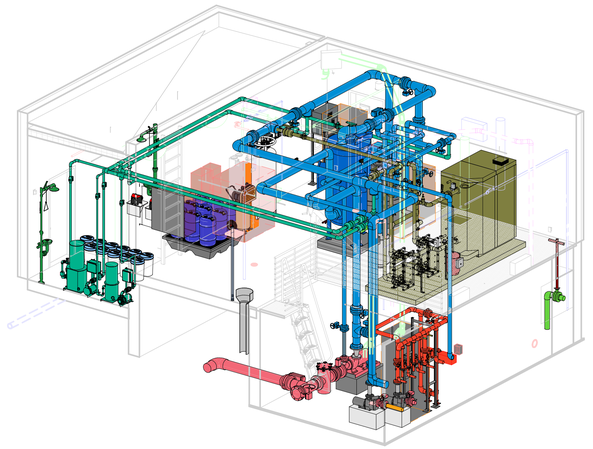


3 PL401 | FIRST FLOOR MECHANICAL ROOM PIPING PLAN
PLAN VIEW
3/8" = 1'-0"



1 PL401 | PUMP PIT PLAN
PLAN VIEW
1/4" = 1'-0"



2 PL401 | 3D MECH ROOM ISO
DETAIL VIEW
NOT TO SCALE

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BRIAN W. FREIBER
P.E.0042920
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MECHANICAL EQUIPMENT
PIPING PLAN & PUMP PIT PLAN

PL401

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MOTORIZED VALVES SCHEDULE

ID TAG	POOL ID	PIPE SIZE (IN)	VALVE SIZE	NOTES
EV1A	A	8	6"	1, 2

1. ASAHI SERIES 19 SMART SAV MODULATING FAILSAFE ELECTRIC ACTUATOR WITH TYPE-57P BUTTERFLY VALVE. INCLUDES OLED SCREEN, MULTI-VOLTAGE, CORROSION RESISTANT NEMA4 ENCLOSURE, POSITION INDICATOR, MANUAL OVERRIDE, AND CAPACITOR DISCHARGE SYSTEM FOR FAILSAFE MODE. VALVE SHALL BE ONE SIZE SMALLER THAN THE PIPE SIZE. USE ELECTRIC ACTUATOR MODEL S20 FOR 1 1/2" - 2 1/2" VALVES, MODEL S50 FOR 3" - 4" VALVES, MODEL S110 FOR 6" VALVES, MODEL S400 FOR 8" - 10" VALVES.
2. SEE SPECIFICATION SECTION 13 11 24.

CHLORINE FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	CALCIUM HYPOCHLORITE MAXIMUM OUTPUT (LB/DAY)	NOTES
CP1A	A	WESTLAKE CHEMICAL	POWERBASE 3070AT	244.8	1, 2, 3
CP1B	B	WESTLAKE CHEMICAL	POWERBASE 1030	67.2	1, 2, 3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE ACCU-TAB BLUE SI TABLETS (CALCIUM HYPOCHLORITE) FOR DISINFECTANT.
3. SEE SPECIFICATIONS SECTION 13 11 37.

pH FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	ACID MAXIMUM OUTPUT (GAL/DAY)	CO2 MAXIMUM OUTPUT (SCFH)	NOTES
AP2A	A	NEPTUNE BENSON	20-200 SCFH Co2 pH CONTROL SYSTEM		200	3, 4
AP1A	A	BLUE-WHITE	A1A4-7T	0.01-100		1, 2, 4
AP2B	B	NEPTUNE BENSON	20-200 SCFH Co2 pH CONTROL SYSTEM		200	3, 4
AP1B	B	BLUE-WHITE	A1A4-7T	0.01-100		1, 2, 4

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE MURIATIC OR SULFURIC ACID FOR pH CONTROL. BASIS OF DESIGN IS A PERISTALTIC PUMP WITH TUBE FAILURE LEAK DETECTION. PROVIDE WITH WEIGHTED FOOT STRAINER.
3. PROVIDE WITH CO2 SINGLE TANK PRESSURE REGULATOR P/N 11471, CO2 INLINE HEATER P/N 12707, C02 FEED SYSTEM P/N 12705 FOR 20-200 SCFH OR P/N 11473 FOR 0-30 SCFH DIFFUSER ASSEMBLY P/N 145NBCO2DF_PROVIDE WITH LOGICO2 Mk90 CO2 STAND-ALONE SAFETY SYSTEM. INCLUDE Mk-90 SENSOR WITH DISPLAY, HORN/STROBE, CABLING, AND SIGNAGE. PROVIDE SETTING THAT COMPLY WITH ALL LOCAL SAFETY CODED AND LEGISLATION. LOCATE SYSTEM NEAR CO2 TANK. INSTALL PER MFG REQUIREMENTS.
4. SEE SPECIFICATIONS SECTION 13 11 37.

STORAGE SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	MODEL	STORAGE QTY	CAPACITY EACH (GALLONS)	CAPACITY EACH (LBS/BUCKETS)	CAPACITY EACH (LBS CO2)	SIZE		NOTES
								DIAMETER	HEIGHT	
AS1	A, B	CHEMICAL SUPPLIER	15 GALLON CARBOY	9	15			1' - 3"	2' - 2"	1, 4, 5
AS2	A, B	CHART INDUSTRIES	CARBO-MIZER 550	1			584	1' - 10"	6' - 1"	3, 4, 5
CS1	A, B	WESTLAKE	ACCU-TAB	12		60 LB		1' - 1"	1' - 7"	2, 4, 5

1. SECONDARY pH CONTROL: 15 GALLON CARBOYS OF MURIATIC ACID PROVIDED BY OWNER'S CHEMICAL SUPPLIER.
2. PRIMARY DISINFECTION: BUCKETS OF CALCIUM HYPOCHLORITE PROVIDED BY OWNER'S CHEMICAL SUPPLIER.
3. PRIMARY pH CONTROL: ONE 500 POUND (MINIMUM) CARBO SERIES BULK CO2 TANKS BY CHART INDUSTRIES COMPLETE WITH PRESSURE REGULATOR, GAUGES, VALVES, RESTRAINTS, AND TUBING. INSTALL SYSTEM USING STAINLESS STEEL CYLINDER/TANK RESTRAINTS PER CODE. PLUMB WITH 3/16" ID 1000PSI BRAIDED TUBING FROM CYLINDER TO REGULATOR AND 3/8" O.D. POLYTUBING FROM REGULATOR TO FEEDER.
4. ALL CHEMICALS ARE PROVIDED BY OWNER'S CHEMICAL SUPPLIER/S. CONTAINER SIZES ARE BASED ON AN APPROXIMATE 2-WEEK STORAGE ESTIMATE. COORDINATE DELIVERY AND STORAGE REQUIREMENTS WITH OWNER & SUPPLIER PRIOR TO ORDERING CONTAINERS.
5. SEE SPECIFICATIONS SECTION 13 11 37.

SPILL CONTAINMENT SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	QUANTITY	HEIGHT	LENGTH	WIDTH	NOTES
SC1	A, B	ENPAC	1	1' - 0"	4' - 6"	4' - 6"	1

1. MOLDED, ONE-PIECE POLYETHYLENE CONTAINMENT, MINIMUM 66-GALLON CAPACITY, TWO DRUM PALLET, MIN 3,000 LB LOAD CAPACITY, MATERIAL SHALL BE RATED AS SUITABLE FOR USE WITH CHEMICAL STORED. CONFORMANT TO ASTM D1998.

AUTOFILL SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	MAIN POOL FILL LINE			POOL AUTO FILL BY-PASS LINE			NOTES
				MIN FILL RATE (GPM)	POOL FILL TIME (HR)	VALVE SIZE (IN)	MIN FILL RATE (GPM)	1" FILL TIME (HRS)	VALVE SIZE (IN)	
AF1A	A	BECSys	SLS	64	48	2	16.4	3	1	1, 3
AF1B	B	AQUATIC CONTROL	ELC-800r	3	24	0.5	2.3	3	0.5	2, 3

1. SURGE LEVEL SENSOR WITH SUBMERSIBLE CABLE. PROVIDE A SENSING RANGE OF 6 FEET, 2" STANDPIPE ADAPTER, AND 15 FT VENTED CABLE LENGTH. PROVIDE WITH BELIMO 2-WAY VALVE AND ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY. PROVIDE VALVES/ACTUATORS FOR THE MAIN FILL HIGH LEVEL SHUTOFF VALVE AND BY-PASS VALVE. NOTE: ONE LOOP POWER SUPPLY IS REQUIRED IN THE BECSsy7 CONTROLLER FOR THIS 4-20 mA INPUT.
2. ELC-800r SERIES CONTROLLER, SINGLE SENSING, DECKWELL SENSING APPLICATION WITH 200 FEET OF CABLE. PROVIDE WITH BELIMO 2-WAY POTABLE WATER VALVE AND ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY FOR AUTOFILL BY-PASS VALVE.
3. FILL FLOW RATES AND FILL TIMES SCHEDULED ABOVE ARE ESTIMATES AND MAY VARY DEPENDING ON WATER PRESSURE BUILDING PLUMBING DESIGN. INSTALL AUTOFILL PER MANUFACTURER'S INSTRUCTIONS, INSTALLATION DETAILS, PLUMBING SCHEMATICS, AND POOL ELECTRICAL WIRING DIAGRAMS.

FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	MANUFACTURER	MODEL	SENSOR LOCATION	SYSTEM DESCRIPTION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FM1A	A	SIGNET	3-2551-P1-12	MECHANICAL ROOM	EXISTING POOL FILTRATION	P1A	6	589	1, 2, 3
FM1B	B	SIGNET	3-2251-P0-12	MECHANICAL ROOM	WADING POOL FILTRATION	P1B	3	99	1, 2, 3

1. FLOW TO BE DISPLAYED ON VFD.
2. PROVIDE WITH SCH80 PVC-U CLAMP-ON SADDLE. SIGNET MODEL NUMBER PV8S030 (3") PV8S060 (6").
3. PROVIDE POWER SUPPLY WITH NEMA 4X ENCLOSURE.

ANALOG FLOW METER SCHEDULE

FM SENSOR ID TAG	FM SENSOR LOCATION	FLOWMETER MODEL	SYSTEM DESCRIPTION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FV1A	MECHANICAL ROOM	FV-2.5	POOL A CHEMICAL LOOP	P1A	2 1/2"	40	1, 2
FV1B	MECHANICAL ROOM	FV-2.5	POOL B CHEMICAL LOOP	P1B	2 1/2"	40	1, 2
FV2A	MECHANICAL ROOM	FV-2.5	POOL A HEATER LOOP	P1A	2 1/2"	40	1, 2
FV2B	MECHANICAL ROOM	FV-2.5	POOL B HEATER LOOP	P1B	2 1/2"	40	1, 2

1. REFER TO PIPING DRAWINGS TO VERIFY PIPE SIZE FOR FLOWMETER SENSOR.
2. FLOW METER FV- INDICATE THE BASIS OF DESIGN IS A FLOW VIS FLOWMETER/CHECK VALVE.

PUMP SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	PUMP TYPE	FLOW (GPM)	TDH (FT)	POWER (HP)	MOTOR SPEED (RPM)	NOTES
P1A	A	AURORA PUMP	3x4x9.5 - 256JM	FILTRATION	589	88	20	1800	1, 3
P1B	B	PENTAIR	WHISPERFLOXF XF VS	FILTRATION	139	78	5	3450	2, 3
P2B	B	PENTAIR	WHISPERFLOXF XF VS	ACTIVITY	120	79	5	3450	2, 3

1. AURORA 3801 CLOSE COUPLED PUMP - TEFC PREMIUM EFFIENCY MOTOR RATED FOR VFD USE. END SUCTION, 316 STAINLESS STEEL IMPELLOR, SLEEVE AND SHAFT, FUSION BONDED EPOXY COATED INTERNAL CAST IRON WETTED PARTS, TEFC PREMIUM EFFICIENCY MOTOR RATED FOR VFD USE, 1800 RPM UNLESS NOTED OTHERWISE. AND WETTED INTERNALS. POWER REQUIRED - 208 V, 3 PHASE, 60 HERTZ.
2. PENTAIR PUMPS - TEFC MOTOR, END SUCTION, CLOSED COUPLED, SELF PRIMING. PROVIDE WITH INTEGRAL STAINER AND EXTRA STRAINER BASKET. POWER REQUIRED - 208 V, 3 PHASE, 60 HERTZ.
3. SEE SPECIFICATIONS SECTION 13 11 25.

STRAINER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	INFLUENT (IN)	EFFLUENT (IN)	FLOW RATE	NOTES
S1A	A	NEPTUNE BENSON	8	8	854	1, 2, 3

1. STAINLESS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET, PROVIDE WITH EXTRA STAINLESS STEEL BASKET.
2. PROVIDE WITH ECCENTRIC REDUCING PRECOAT TEE.
3. SEE SPECIFICATIONS SECTION 13 11 25.

VFD SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	NOTES
V1A	A	ABB	ACH580-BCR-027A-4	20	208	3	1, 2, 3

1. PROVIDE WITH UL TYPE 12 ENCLOSURE.
2. VFD WITH E-CLIPSE BY-PASS.
3. SEE SPECIFICATIONS SECTION 13 11 26.

REGENERATIVE FILTER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	FLOW (GPM)	FILTRATION RATE (GPM/FT2)	BACKWASH/DRAIN RATE (GPM)	FILTER SIZE				NOTES
							FILTER AREA (FT2)	OPERATING WEIGHT (LB)	DIAMETER (IN)	HEIGHT (IN)	
F1A	A	NEPTUNE BENSON OR PADDOCK	SP-33-48-732 OR PPEC 500S	589	1.54	300	383	4250	39 1/2"	103 1/2"	1, 2

1. DEFENDER FILTERS ARE REGENERATIVE MEDIA. PROVIDE WITH PERLITE MEDIA.
2. SEE SPECIFICATIONS SECTION 13 11 30 REGENERATIVE MEDIA FILTERS.

SAND FILTER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	FLOW (GPM)	FILTRATION RATE (GPM/FT2)	BACKWASH/DRAIN RATE (GPM)	FILTER SIZE				NOTES
							FILTER AREA (FT2)	OPERATING WEIGHT (LB)	DIAMETER (IN)	HEIGHT (IN)	
F1B	B	NEPTUNE BENSON	48CCFG-3	139	11.78	177	11.8	3410	49"	58"	1, 2, 3

1. USE DRYDEN AQUA DISTRIBUTION ACTIVATED FILTER MEDIA (AFM) FOR FILTER MATERIAL IN PLACE OF SAND. INSTALL PER DRYDEN AQUA RECOMMENDATIONS. SEE SPECIFICATIONS 13 11 32 FOR ADDITIONAL INFORMATION
2. LEGACY SERIES (CCFG) FILTERS ARE HIGH RATE SAND, VERTICAL FIBERGLASS TANK. PROVIDE WITH MULTI-PORT VALVE.
3. SEE SPECIFICATIONS SECTION 13 11 34 VERTICAL FIBERGLASS FILTERS.

AIR COMPRESSOR SCHEDULE

ID TAG	MANUFACTURER	MODEL	POOLS SERVED	TANK SIZE (GAL)	POWER REQUIRED (VOLTAGE/PHASE/HZ)	NOTES
AC1	INGERSOLL RAND	P1.5IU-A9	A	20	115/1/60	1, 2

1. DEFENDER COMPRESSOR 5.2 CFM @ 90 PSI & 4.6 CFM @ MAXIMUM 135 PSI, CAST IRON TWIN CYLINDER COMPRESSOR PUMP. PROVIDE WITH WATER SEPARATOR MODEL AMG350, 1/2" PORT SIZE. SEE PL406 REGENERATIVE MEDIA DETAIL FOR MORE INFORMATION.
2. SEE SPECIFICATIONS SECTION 13 11 30 REGENERATIVE MEDIA FILTERS.

ULTRA VIOLET DISINFECTION SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	PIPE SIZE (IN)	PANEL ID TAG	TOTAL POWER (KW)	POWER REQUIRED (VOLTAGE/PHASE/HZ)	BREAKER SIZE (AMPS)	NOTES
UV1A	A	EVOQUA	WF-215-6	6	UVP1A	3	208V, 1PH (60 HZ)	30	1, 2, 3
UV2B	B	EVOQUA	WF-115-3	3	UVP2B	1.5	208V, 1PH (60 HZ)	20	2, 3

1. PROVIDE WITH 4" ETS "EZ" STRAINER VALVE.
2. INSTALL PER DETAILS SEE PL404 & UV MANUFACTURER'S RECOMMENDATIONS.
3. SEE SPECIFICATIONS SECTION 13 11 35.

HEATER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	BTU/HR INPUT	GAS CONNECTION (IN)	WATER CONNECTION (IN)	VENT DIAMETER (IN)	AIR INTAKE (IN)	NOTES
H1A	A & B	LOCHINVAR	APO2000-2HX	2,000,000	1 1/2"	2"	8"	8"	1, 2

1. AQUAS HIGH EFFICIENCY (96%) COMMERCIAL POOL, FACTORY ASSEMBLED, SKID MOUNTED HEATING SYSTEM; MODULATING CONDENSING BOILER WITH TITANIUM PLATE HEAT EXCHANGER; MANUAL RESET HIGH LIMIT. PROVIDE WITH A.S.M.E. LABEL, BOILER PUMP, EXPANSION TANK RELIEF VALVE, FLOW SWITCH, DIRECT VENTING SYSTEM, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES. FURTHER PROVIDE WITH 2 1/2" FLOWVIS FLOWMETER ON HEATER INFLUENT PIPING AS SHOWN IN DETAILS.
2. SEE SPECIFICATIONS SECTION 13 11 40.

CHEMICAL CONTROLLER SCHEDULE

ID TAG	MANUFACTURER	MODEL	NOTES
C1A	BECS TECHNOLOGY, INC.	BECSys7 LX BP	1
C1B	BECS TECHNOLOGY, INC.	BECSys5	1

1. SEE CHEMICAL CONTROLLER SPECIFICATION SECTION 13 11 37 FOR OPTIONS.

BARKER RINKER SEACAT ARCHITECTURE
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Superior North Pool Reno
1650 S INDIANA ST, SUPERIOR, CO 80027



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Issue: PERMIT SET
Date: 01/09/2026
Drawn By: Author
Checked By: JB

Revisions:

Description	Date:

Sheet title:
MECHANICAL EQUIPMENT SCHEDULES

PL402

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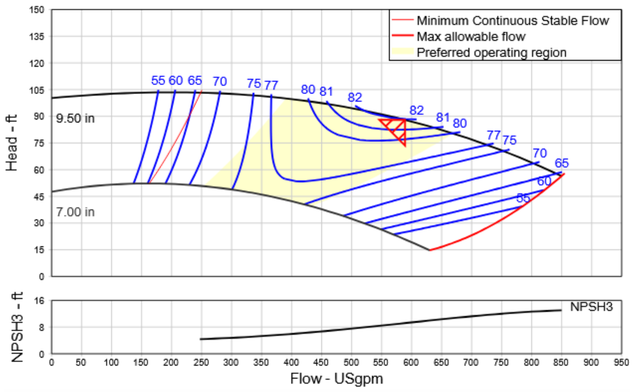
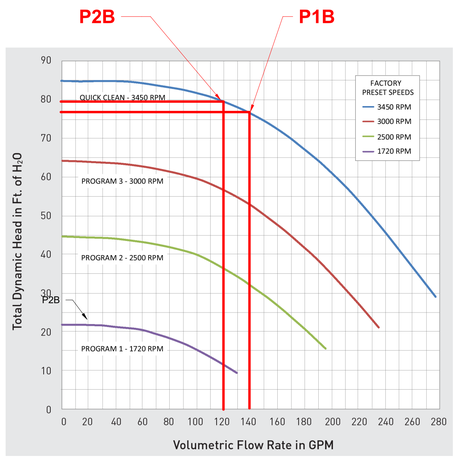


7 | P1A PUMP CURVE
PL403 DETAIL VIEW
NOT TO SCALE



8 | P1B & P2B PUMP CURVE
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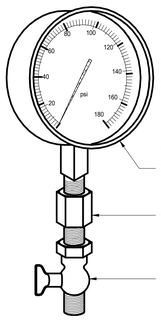
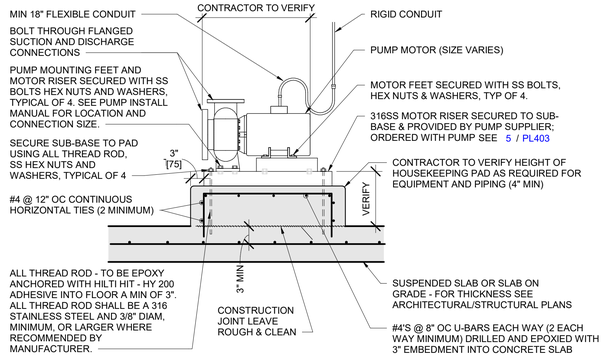


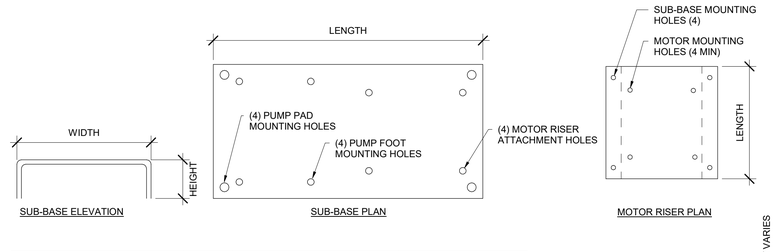
NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING & TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER & PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.
3. 2 1/2" SS CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi & VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi & VACUUM OF 2"Hg. 1/4" NPT AS MANUFACTURED BY TRERICE, MARSH, WINTERS OR APPROVED EQUAL.
4. INSTALL GAUGE IN A VERTICAL ORIENTATION.

9 | COMPOUND GAUGE
PL403 DETAIL VIEW
NOT TO SCALE



NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER / INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.
5. FINAL INSTALLATION SHALL ALLOW REMOVAL OF MOTOR AND PUMP IMPELLER WITHOUT REMOVAL OF PIPING OR ELECTRICAL CONNECTIONS.

4 | PUMP PAD
PL403 DETAIL VIEW
NOT TO SCALE

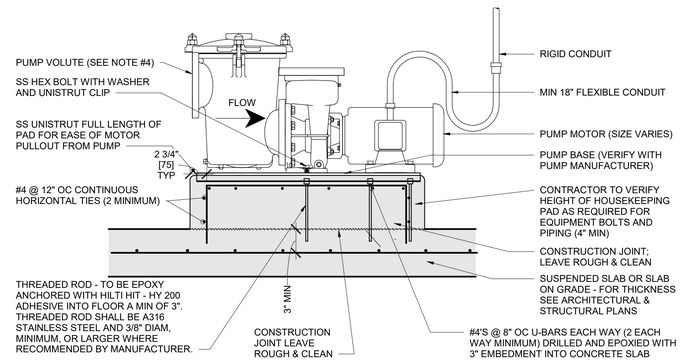


MOTOR FRAME GROUP	143-184	213-215	254-286	324-365	284-326-11A	324-365 x 13.5	404-445
SUB BASE LENGTH	26.25	31	37	40	43.5	46.5	54
SUB BASE WIDTH	12	16	17	20	25	25	25
SUB BASE HEIGHT	3	3	3	3	4	4	4
RISER LENGTH	12	15	20	24	N/A	24	30
RISER WIDTH	10	12	15	18	N/A	18	22

NOTES:

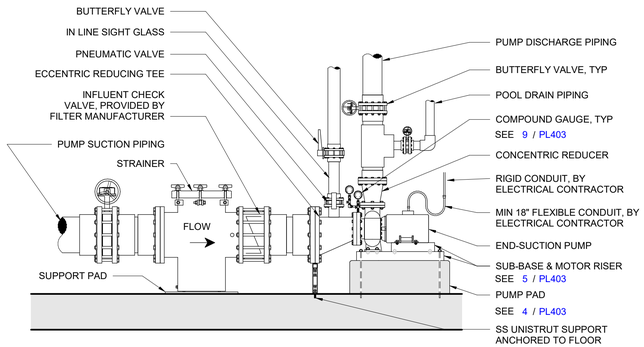
1. SUB-BASE AND MOTOR RISER HOLE LOCATIONS SHALL BE DETERMINED BY THE PUMP SUPPLIER BASED ON PUMP FRAME AND MOTOR DIMENSIONS. SEE PUMP SPECIFICATION SECTION 13 11 25 FOR ADDITIONAL INFORMATION.
2. MOTOR RISER HEIGHTS VARY. CONTRACTOR SHALL INCLUDE A DIMENSIONED SUB-BASE & MOTOR RISER DRAWING FOR EACH PUMP IN THE PUMP AND MOTOR SUBMITTAL FOR REVIEW.

5 | PUMP SUB-BASE & MOTOR RISER – AURORA 3801
PL403 DETAIL VIEW
NOT TO SCALE



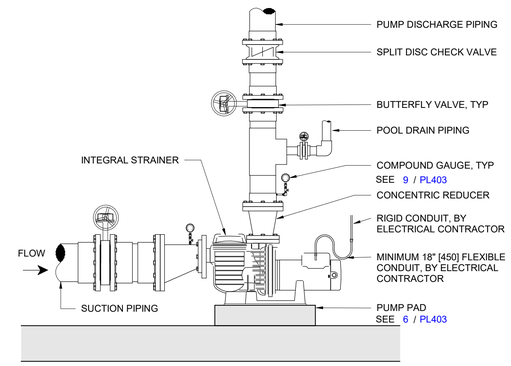
NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER/INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. DO NOT ALLOW PUMP VOLUTE TO CARRY WEIGHT OF PIPING. PROVIDE SUPPORT FOR VOLUTE AS ILLUSTRATED ABOVE. SIMILARLY PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.

6 | PUMP PAD
PL403 DETAIL VIEW
NOT TO SCALE



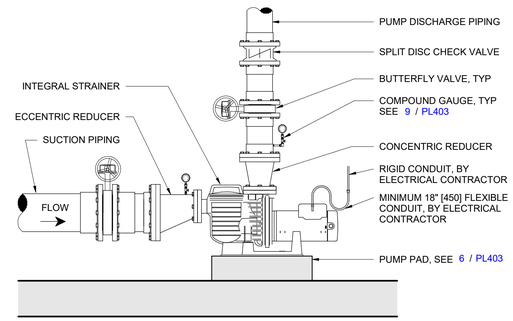
NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL STRAINER OR REDUCER WITH 1/4" NPT TAPS PROVIDED ON THE PUMP SUCTION AND DISCHARGE FLANGES.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.
5. LOCATE PRECOAT VALVE AND SPACE FLANGES AS REQUIRED TO AVOID CONFLICTS WITH THE DISCHARGE PLUMBING FLANGES AND VALVES.

1 | PUMP INSTALLATION - RM FILTER
PL403 DETAIL VIEW
NOT TO SCALE



NOTES:
1. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
2. INSTALL STRAINER OR REDUCER WITH 1/4" [6] FPT GAUGE CONNECTION AS CLOSE TO PUMP AS POSSIBLE.
3. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

2 | PUMP INSTALLATION - SAND FILTER
PL403 DETAIL VIEW
NOT TO SCALE



NOTES:
1. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
2. INSTALL REDUCER WITH 1/4" [6] FPT GAUGE CONNECTION AS CLOSE TO PUMP AS POSSIBLE.
3. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

3 | ACTIVITY PUMP INSTALLATION
PL403 DETAIL VIEW
NOT TO SCALE

BARKER RINKER SEACAT ARCHITECTURE
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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FRISBEY
P.E. 0042920
11/19/2025
PROFESSIONAL ENGINEER

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Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	Author
Checked By:	JB

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Description	Date:

Sheet title:

MECHANICAL DETAILS

PL403

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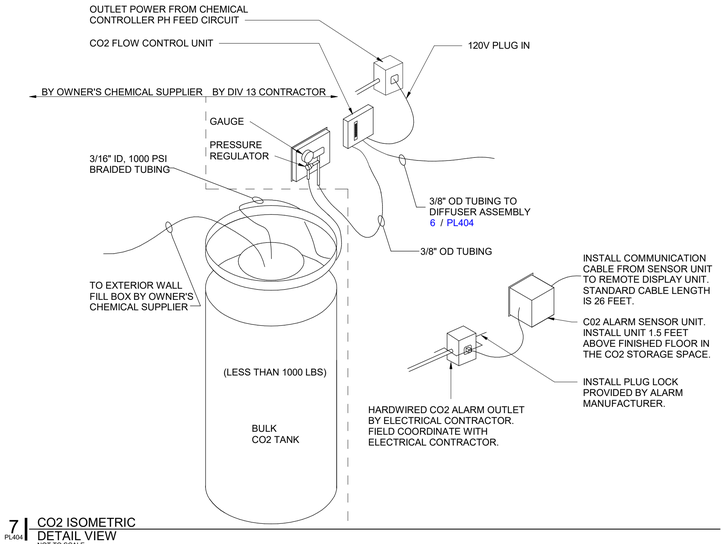
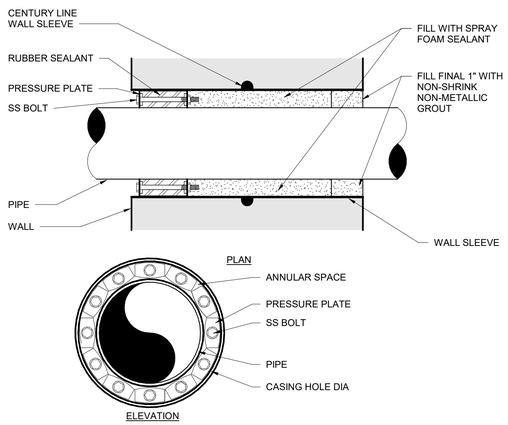
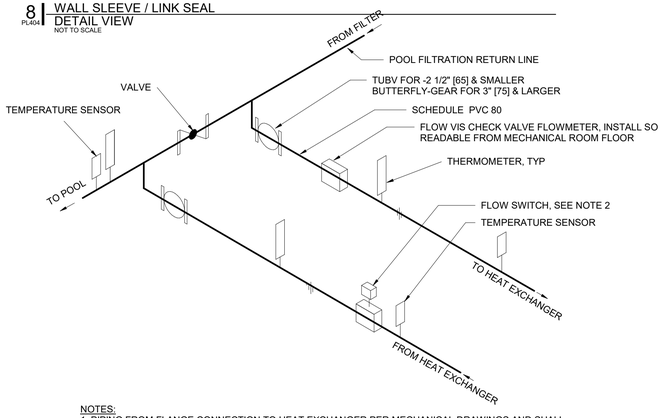


7 | PL404 CO2 ISOMETRIC DETAIL VIEW
NOT TO SCALE



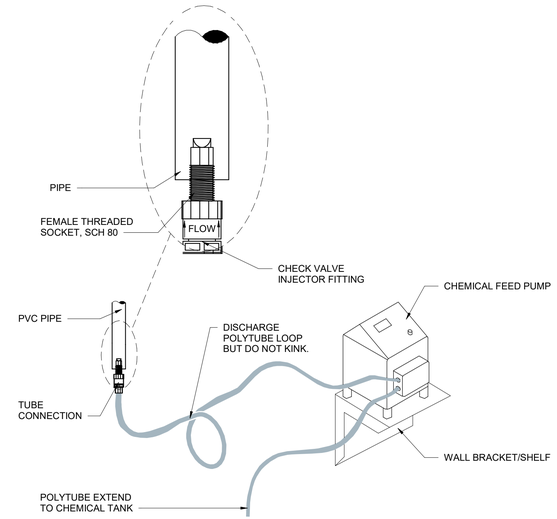
NOTES:
1. SLEEVE SUPPLIED BY POOL CONTRACTOR, INSTALLED BY BUILDING CONTRACTOR.
2. LINK SEAL SUPPLIED AND INSTALLED BY POOL CONTRACTOR.
3. LOCATE LINK SEAL ON THE MOST ACCESSIBLE SIDE OF THE WALL.

8 | PL404 WALL SLEEVE / LINK SEAL DETAIL VIEW
NOT TO SCALE



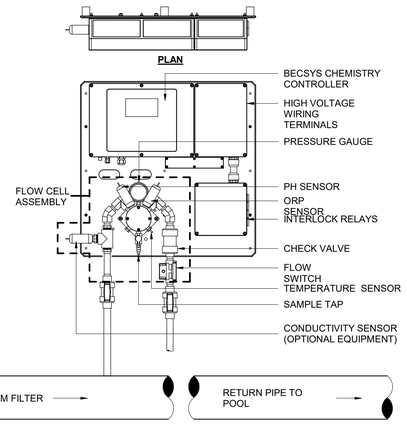
NOTES:
1. PIPING FROM FLANGE CONNECTION TO HEAT EXCHANGER PER MECHANICAL DRAWINGS AND SHALL MEET REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. FLOW SWITCH, TEMPERATURE SENSOR, AND THERMOWELL PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR.
3. CONTRACTOR SHALL PROVIDE AND CONFORM TO ANY ADDITIONAL INSTALLATION REQUIREMENTS PER MANUFACTURER OR CODE REQUIREMENTS.
4. TEE CONNECTIONS ON THE POOL FILTRATION RETURN LINE TO THE HEAT EXCHANGER INFLUENT AND EFFLUENT CONNECTIONS SHALL BE POSITIONED IN THE DOWNWARD POSITION.

9 | PL404 HEAT EXCHANGER LOOP DETAIL VIEW
NOT TO SCALE



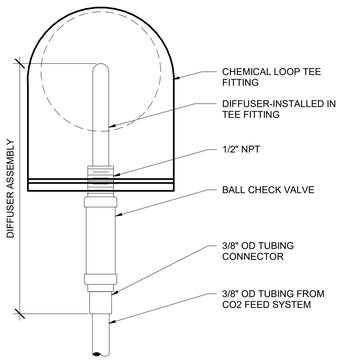
NOTES:
1. FOR PIPING USE FASTITE CONNECTOR OR SIMILAR COMPRESSION FITTING.
2. FOR POLYTUBING MATCH FEED PUMP TUBING MATERIAL TYPE AND SIZE.
3. POLYTUBING AND CHECK VALVE INJECTOR SHALL BE SUPPLIED WITH THE PUMP BY THE MANUFACTURER RATED FOR THE SYSTEM PRESSURE AND COMPATIBLE WITH THE POOL CHEMICALS.

4 | PL404 CHEMICAL INJECTION DETAIL VIEW
NOT TO SCALE

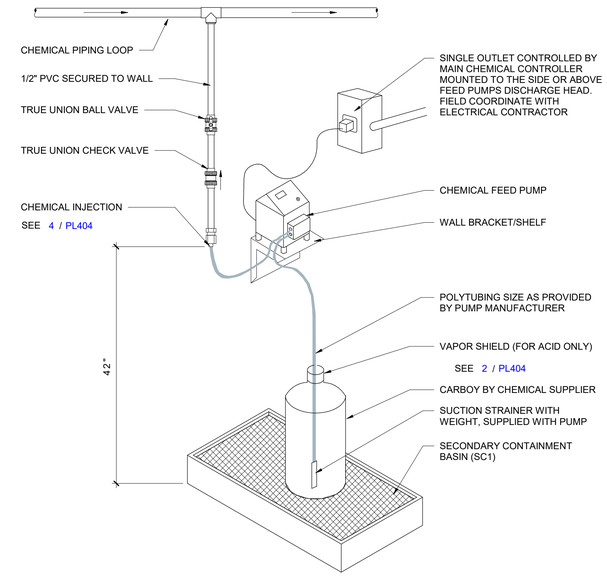


NOTES:
1. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AS REQUIRED FOR WALL TYPE.
2. INTERLOCK CHEMICAL CONTROL RELAYS WITH FILTRATION PUMP.
3. SEE CHEMICAL CONTROLLER SPECIFICATIONS FOR REQUIRED OPTIONAL EQUIPMENT.
4. RIGIDLY SECURE BACK PANEL TO BUILDING WALL, APPROXIMATELY 5'-8" ABOVE FINISHED FLOOR, IN LOCATION INDICATED IN PLAN.
5. CHEMICAL SAMPLING STREAMS SHALL TERMINATE AT THE AUTOFILL WITH 6" AIR GAP.

5 | PL404 CHEMICAL CONTROLLER DETAIL VIEW
NOT TO SCALE

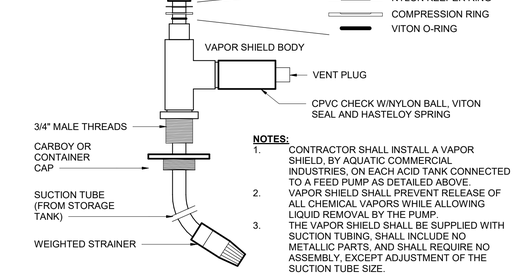


6 | PL404 CO2 INJECTION DETAIL VIEW
NOT TO SCALE



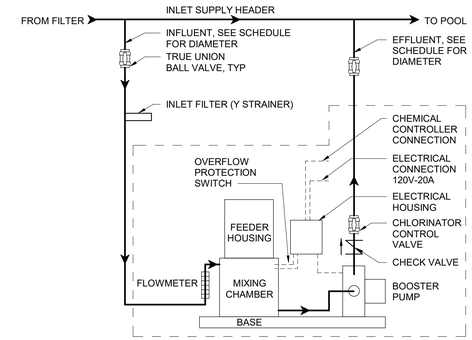
NOTE: MOUNT & INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALL MOUNTING & INSTALLATION MATERIALS & HARDWARE TO BE CORROSION RESISTANT.

1 | PL404 CHEMICAL FEED PUMP ISOMETRIC DETAIL VIEW
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL INSTALL A VAPOR SHIELD, BY AQUATIC COMMERCIAL INDUSTRIES, ON EACH ACID TANK CONNECTED TO A FEED PUMP AS DETAILED ABOVE.
2. VAPOR SHIELD SHALL PREVENT RELEASE OF ALL CHEMICAL VAPORS WHILE ALLOWING LIQUID REMOVAL BY THE PUMP.
3. THE VAPOR SHIELD SHALL BE SUPPLIED WITH SUCTION TUBING, SHALL INCLUDE NO METALLIC PARTS, AND SHALL REQUIRE NO ASSEMBLY, EXCEPT ADJUSTMENT OF THE SUCTION TUBE SIZE.

2 | PL404 VAPOR SHIELD DETAIL VIEW
NOT TO SCALE



EQUIPMENT WITHIN DASHED LINES PROVIDED BY MANUFACTURER WITH UNIT

3 | PL404 CHLORINATOR - ACCUTAB DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED BRIAN W. FREEBERG PROFESSIONAL ENGINEER
P.E.0042920
11/19/2025

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	Author
Checked By:	JB

Revisions:

Description	Date:

Sheet title:
MECHANICAL DETAILS

PL404

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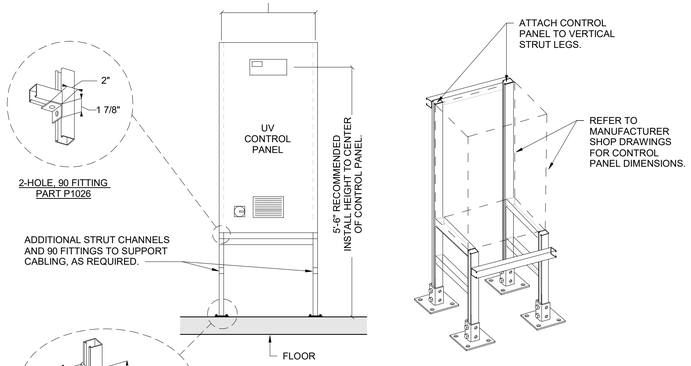
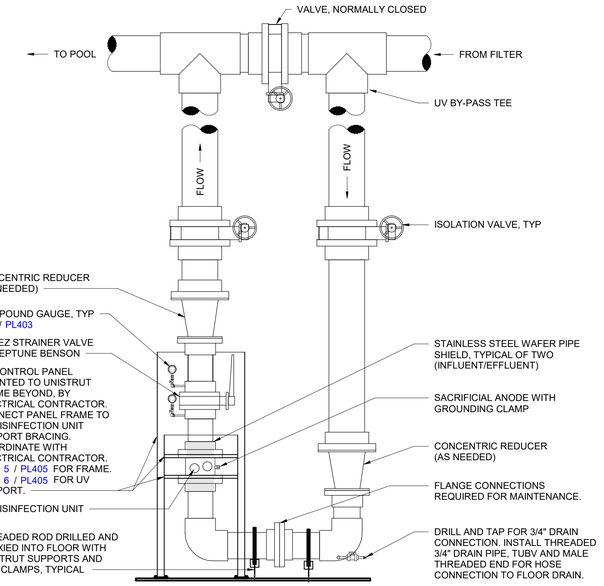
UV PANEL BRACING

POST BASE SPACING DEPENDENT ON CONTROL PANEL
WIDTH. REFER TO MANUFACTURER SHOP DRAWINGS FOR EXACT DIMENSIONS.



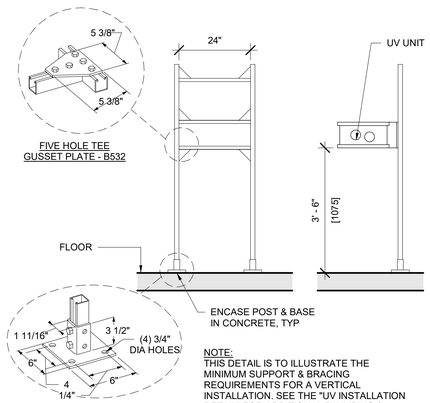
NOTES:
1. THIS DETAIL ILLUSTRATES THE MINIMUM SUPPORT AND BRACING REQUIREMENTS FOR THE UV CONTROL PANEL INSTALLATION. THE INSTALLATION OF THE CONTROL PANEL.
2. SEE THE "UV INSTALLATION DETAIL" FOR ADDITIONAL PLUMBING AND THE UV LAMP INSTALL REQUIREMENTS NOT SHOWN HERE.
3. COORDINATE WITH THE ELECTRICAL CONTRACTOR AS NEEDED.

5 PL405 | UV SUPPORT & BRACING DETAIL VIEW
NOT TO SCALE



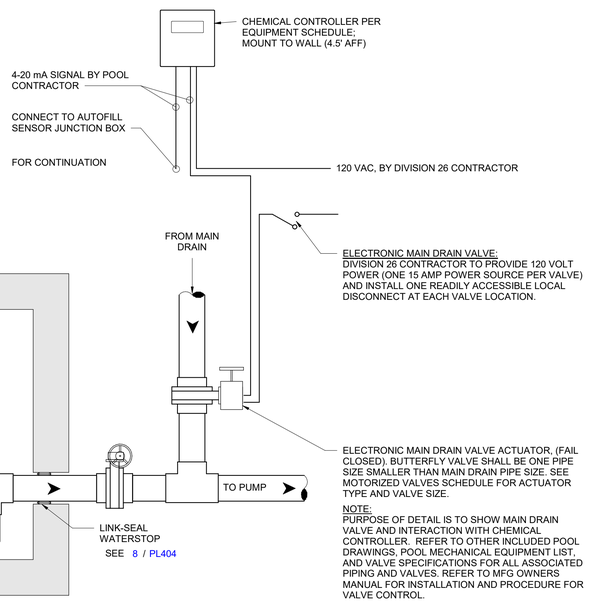
NOTES:
1. ALL PIPING & FITTINGS TO & FROM UV UNIT TO THE "UV BY-PASS TEES" SHALL BE SCH 80 PVC.
2. ALL PIPE REDUCTIONS SHALL BE WITH A CONCENTRIC REDUCER AS SHOWN. NO BUSHINGS ALLOWED.
3. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. CONTROL BOX SHALL BE INSTALLED WITHIN 10 FT OF UNIT, WHENEVER POSSIBLE.
4. PROVIDE CLEARANCE AS REQUIRED ADJACENT TO UV UNIT FOR REMOVAL & REPLACEMENT OF UV LAMPS.
5. DO NOT INSTALL VALVES DIRECTLY TO CHAMBER BODY. INSTALL STAINLESS STEEL WAFER PIPE SHIELDS SUPPLIED WITH THE UV UNIT, PER MANUFACTURER'S RECOMMENDATIONS.
6. UV UNIT SHALL BE PROPERLY SUPPORTED & BRACED. SEE REFERENCED "UV SUPPORT & BRACING DETAIL". COMBINE CONTROL PANEL FRAME SUPPORTS WITH THE LAMP SUPPORT BRACING TO FORM A SINGLE FRAME/STRUCTURE.
7. UV LAMP AND PANEL MUST BE PROPERLY BONDED AND GROUNDED. PER MANUFACTURER'S INSTRUCTIONS, CONNECT GROUND WIRE TO GROUND CLAMP ON SACRIFICIAL ANODE. CONNECT THIS BONDING WIRE TO THE FRONT CHAMBER FOOT TERMINAL. CONNECT THE SEPARATE UV CONTROL PANEL GROUND WIRE (COMING FROM THE UV CONTROL PANEL) TO THE SAME LOCATION AT THE FRONT CHAMBER FOOT BRACKET.

3 PL405 | UV DISINFECTION DETAIL VIEW
NOT TO SCALE



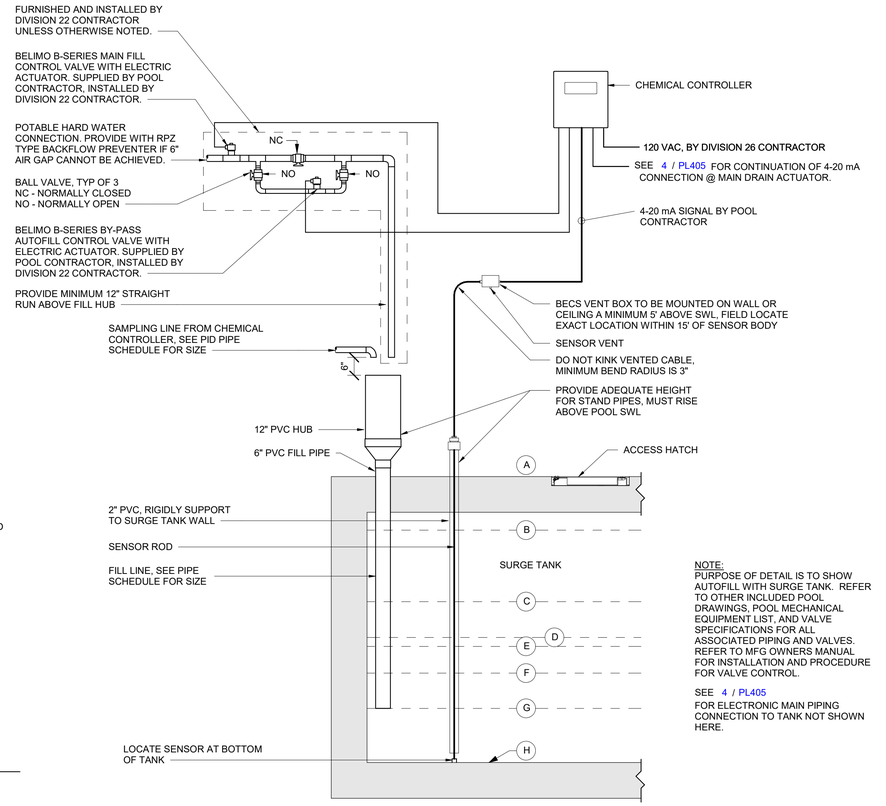
NOTE:
THIS DETAIL IS TO ILLUSTRATE THE MINIMUM SUPPORT & BRACING REQUIREMENTS FOR A VERTICAL INSTALLATION. SEE THE "UV INSTALLATION DETAIL" FOR ADDITIONAL PLUMBING & INSTALLATION.

6 PL405 | UV SUPPORT & BRACING DETAIL VIEW
NOT TO SCALE



NOTE:
PURPOSE OF DETAIL IS TO SHOW MAIN DRAIN VALVE AND INTERACTION WITH CHEMICAL CONTROLLER. REFER TO OTHER INCLUDED POOL DRAWINGS, POOL MECHANICAL EQUIPMENT LIST, AND VALVE SPECIFICATIONS FOR ALL ASSOCIATED PIPING AND VALVES. REFER TO MFG OWNERS MANUAL FOR INSTALLATION AND PROCEDURE FOR VALVE CONTROL.

4 PL405 | SURGE TANK LEVEL CONTROL DETAIL VIEW
NOT TO SCALE



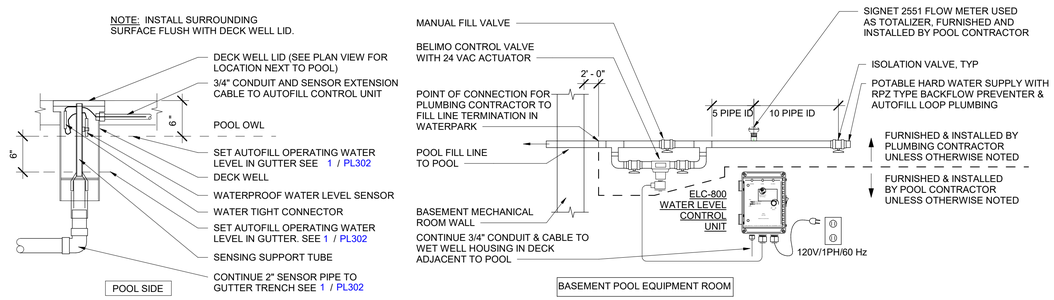
NOTE:
PURPOSE OF DETAIL IS TO SHOW AUTOFILL WITH SURGE TANK. REFER TO OTHER INCLUDED POOL DRAWINGS, POOL MECHANICAL EQUIPMENT LIST, AND VALVE SPECIFICATIONS FOR ALL ASSOCIATED PIPING AND VALVES. REFER TO MFG OWNERS MANUAL FOR INSTALLATION AND PROCEDURE FOR VALVE CONTROL.

SEE 4 / PL405
FOR ELECTRONIC MAIN PIPING CONNECTION TO TANK NOT SHOWN HERE.

ELEVATION LETTER	A	B	C	D	E	F	G	H
HEIGHT	100' - 0"	98' - 6"	96' - 6"	95' - 6"	95' - 3"	94' - 6"	94' - 0"	92' - 0"

(A) TOP OF SURGE TANK LID.
(B) HIGH LEVEL SHUTOFF: MAIN FILL CONTROL VALVE CLOSED, AUTOFILL CONTROL VALVE CLOSED.
(C) HIGH LEVEL: TRANSMITTER HIGH SET POINT 4-20 MA SIGNAL, MAIN DRAIN VALVE CALIBRATED AT 100% CLOSED.
(D) OPERATING WATER LEVEL: OPERATING WATER ELEVATION, MAIN DRAIN VALVE TO BE CALIBRATED AT 20% OPEN. AUTOFILL "OFF".
(E) AUTOFILL ON: MAIN FILL CONTROL VALVE OPEN, AUTOFILL CONTROL VALVE OPEN.
(F) LOW LEVEL: TRANSMITTER LOW SET POINT 4-20 MA SIGNAL, VALVE TO BE CALIBRATED AT 100% OPEN. AUTOFILL "ON".
(G) TERMINATE OPEN-ENDED PIPE
(H) SURGE TANK FINISHED FLOOR.

1 PL405 | AUTOFILL/WATER LEVEL CONTROL - POOL A DETAIL VIEW
NOT TO SCALE



NOTE:
1. AUTOFILL CONTROL UNIT, DECK WELL HOUSING/SENSOR AND CONTROL VALVE FURNISHED BY POOL CONTRACTOR.
2. AUTOFILL VALVE ASSEMBLY & CONTROL VALVE INSTALLED BY LICENSED PLUMBER.
3. RECOMMENDED WATER HARDNESS FROM POTABLE WATER SUPPLY IS 150-400 PPM CaCO3.

2 PL405 | AUTOFILL - DECK WELL POOL B DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

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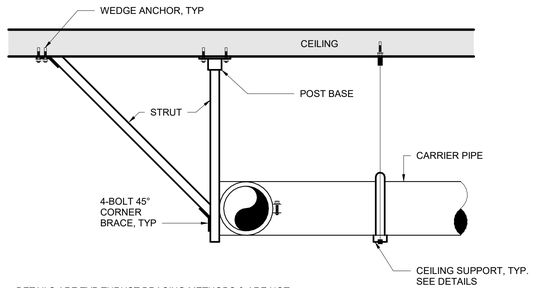
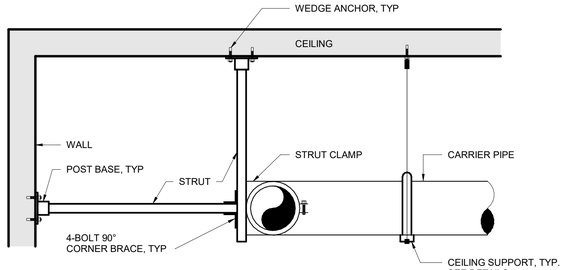


DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

9 PL406 PIPE THRUST BRACING
DETAIL VIEW
NOT TO SCALE



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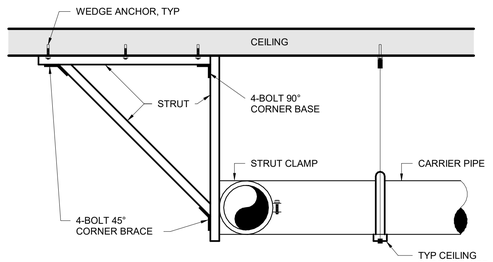
10 PL406 PIPE THRUST BRACING
DETAIL VIEW
NOT TO SCALE



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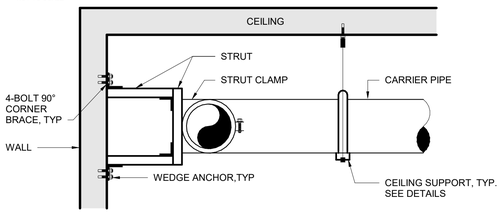
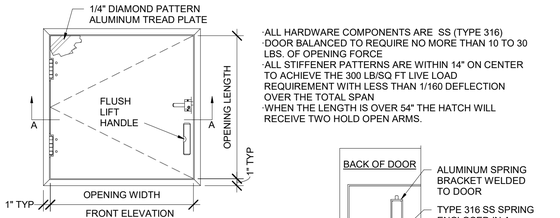
11 PL406 PIPE THRUST BRACING
DETAIL VIEW
NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

12 PL406 PIPE THRUST BRACING
DETAIL VIEW
NOT TO SCALE



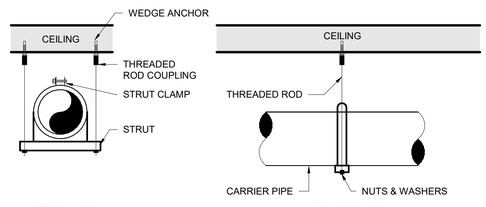
·ALL HARDWARE COMPONENTS ARE SS (TYPE 316)
·DOOR BALANCED TO REQUIRE NO MORE THAN 10 TO 30 LBS. OF OPENING FORCE
·ALL STIFFENER PATTERNS ARE WITHIN 14" ON CENTER TO ACHIEVE THE 300 LB/SQ FT LIVE LOAD REQUIREMENT WITH LESS THAN 1/160 DEFLECTION OVER THE TOTAL SPAN
·WHEN THE LENGTH IS OVER 54" THE HATCH WILL RECEIVE TWO HOLD OPEN ARMS.

BILCO: TYPE J-AL ACCESS DOOR
NYSTROM: MODEL #FDNPA36X36SFL

4 PL406 ACCESS HATCH
DETAIL VIEW
NOT TO SCALE

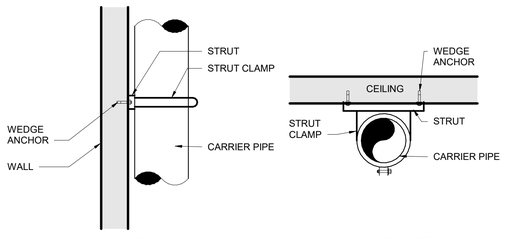
MAX ALLOWABLE SUPPORT SPACING FOR PVC PIPE (IN FT)										
NOMINAL PIPE SIZE	SCHEDULE 40					SCHEDULE 80				
	TEMPERATURE (°F)					TEMPERATURE (°F)				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/2"	4.5	4.5	4	2.5	2.5	5	4.5	4.5	3	2.5
3/4"	5	4.5	4	2.5	2.5	5.5	5	4	3	2.5
1"	5.5	5	4.5	3	2.5	6	5.5	5	3.5	3
1 1/4"	5.5	5.5	5	3	3	6	6	5.5	3.5	3
1 1/2"	6	5.5	5	3.5	3	6.5	6	5.5	3.5	3.5
2"	6	5.5	5	3.5	3	7	6.5	6	4	3.5
2 1/2"	7	6.5	6	4	3.5	7.5	7.5	6.5	4.5	4
3"	7	7	6	4	3.5	8	7.5	7	4.5	4
4"	7.5	7	6.5	4.5	4	9	8	7.5	5	4.5
6"	8.5	8	7.5	5	4.5	10	9.5	9	6	5
8"	9	8.5	8	5	4.5	11	10.5	9.5	6.5	5.5
10"	10	9	8.5	5.5	5	12	11	10	7	6
12"	11.5	10.5	9.5	6.5	5.5	12	11	10	7	6

6 PL406 PIPE SUPPORT SCHEDULE
DETAIL VIEW
NOT TO SCALE



NOTES:
1. DETAILS ARE TYP SUPPORT METHODS AND ARE NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY AND VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL AND VERTICAL/HORIZONTAL CHANGES IN DIRECTIONS.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS AND MATERIALS.
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

7 PL406 PIPE SUPPORT
DETAIL VIEW
NOT TO SCALE



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4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS AND MATERIALS.
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

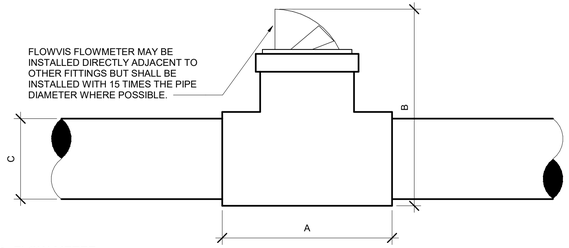
8 PL406 PIPE SUPPORT
DETAIL VIEW
NOT TO SCALE

WEIGHT OF WATER FILLED PIPES				
PIPE DIA. (IN.)	OD (IN.)	ID (IN.)	EMPTY PIPE WT. (LBS/LF)	FILLED PIPE TOTAL WT. (LBS/LF)
0.5	0.840	0.526	0.213	0.307
0.75	1.050	0.722	0.289	0.466
1	1.315	0.936	0.424	0.722
1.25	1.660	1.255	0.586	1.122
1.5	1.900	1.476	0.711	1.452
2	2.375	1.913	0.984	2.229
2.5	2.875	2.290	1.500	3.284
3	3.500	2.864	2.010	4.800
4	4.500	3.786	2.938	7.814
6	6.625	5.709	5.610	16.697
8	8.625	7.565	8.522	27.989
10	10.750	9.493	12.635	43.290
12	12.750	11.294	17.384	60.774
14	14.000	12.410	20.852	73.240
16	16.000	14.213	26.810	95.527
18	18.000	16.014	33.544	120.779
20	20.000	17.814	107.948	148.995
24	24.000	21.418	156.045	214.278

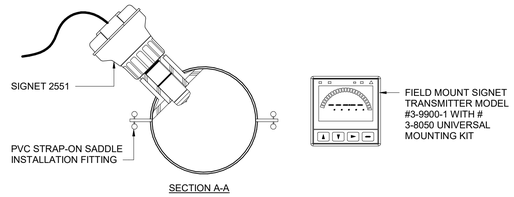
NOTES:
1. BASIS OF WEIGHT IS +GF+ PVC INDUSTRIAL PIPE: SCH80 WITH A DENSITY OF 91.10 LB/CF
2. SEE POOL PIPE SCHEDULES FOR REQUIRED PIPE SIZES.

5 PL406 WEIGHT OF WATER FILLED PIPES
DETAIL VIEW
NOT TO SCALE

MODEL	A	B	C
FV-15	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 1.5"
FV-2	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2"
FV-25	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2.5"
FV-3-40	8.0" (203.2)	9.5" (241.3)	SCHEDULE 40 - 3"
FV-3	8.0" (203.2)	9.5" (241.3)	SCHEDULE 80 - 3"
FV-4	9.5" (241.3)	9.75" (247.65)	SCHEDULE 80 - 4"
FV-6	6" (241.3)	12.53" (318.26)	SCHEDULE 80 - 6"
FV-8	8.59" (218.17)	14.37" (365)	SCHEDULE 80 - 8"

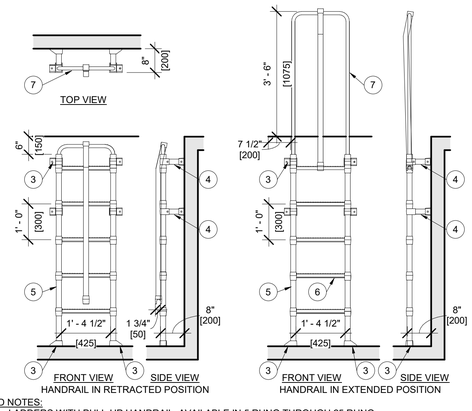


1 PL406 FLOW METER
DETAIL VIEW
NOT TO SCALE



NOTES:
1. INSTALL PIPE SUCH THAT AIR CANNOT GET TRAPPED IN AREA OF SENSOR. DO NOT INSTALL IN PIPES WITH FLOW MOVING DOWNWARD OR IN HORIZONTAL SECTIONS OF PIPE THAT ARE HIGHER THAN ADJACENT HORIZONTAL PIPE.
2. FOR HORIZONTAL PIPE INSTALLATIONS, INSTALL FLOWMETER FACING UPWARD AT A 45° ANGLE TO MINIMIZE ADVERSE EFFECTS OF AIR POCKETS AND SEDIMENT.
3. FIELD MOUNT TRANSMITTER APPROXIMATELY 4'-6" (1350) ABOVE FINISHED FLOOR OR GRADE UTILIZING THE #3-8050 UNIVERSAL MOUNTING KIT.

2 PL406 FLOW METER
DETAIL VIEW
NOT TO SCALE



KEYED NOTES:
1. LADDERS WITH PULL-UP HANDRAIL, AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
2. POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS & OSHA 1910.26 & 1910.27 SPECIFICATIONS.
3. FASTEN LADDER TO FLOOR & WALL WITH 1/2" DIAMETER STAINLESS STEEL HILTI KWIK BOLT TZ ANCHORS WITH 3 1/4" EMBEDMENT. ANCHORS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
4. STANDARD ADJUSTABLE MOUNTING BRACKET - 8" OD
5. ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1-3/4" x 1-3/4" DIA
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1-5/8" x 1-1/4" DIA WITH MOLDED FINGER GRIPS, 12" CC
7. ALUMINUM & STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL. LADDER MANUFACTURED BY LANE INTERNATIONAL CORPORATION, P.O. BOX 925, TUALATIN, OREGON 800-666-0076

3 PL406 ACCESS LADDER
DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FREIBERG
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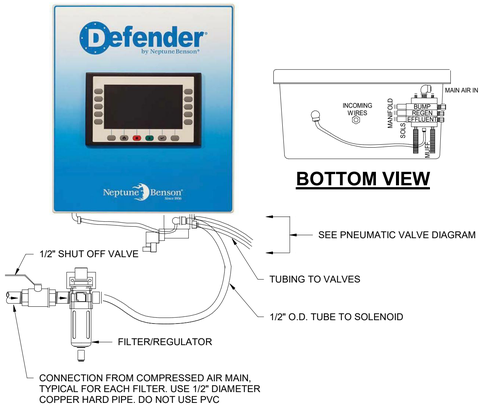
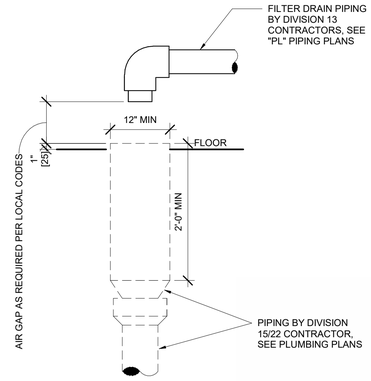


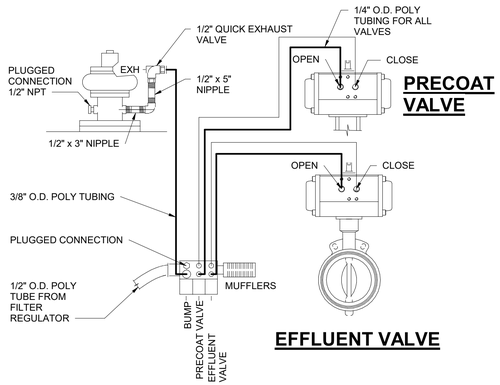
BOTTOM VIEW

3 | PL407 FILTER CONTROL PANEL DETAIL VIEW
NONE



2 | PL407 REGENERATIVE MEDIA FILTER DRAIN HUB DETAIL VIEW
NONE

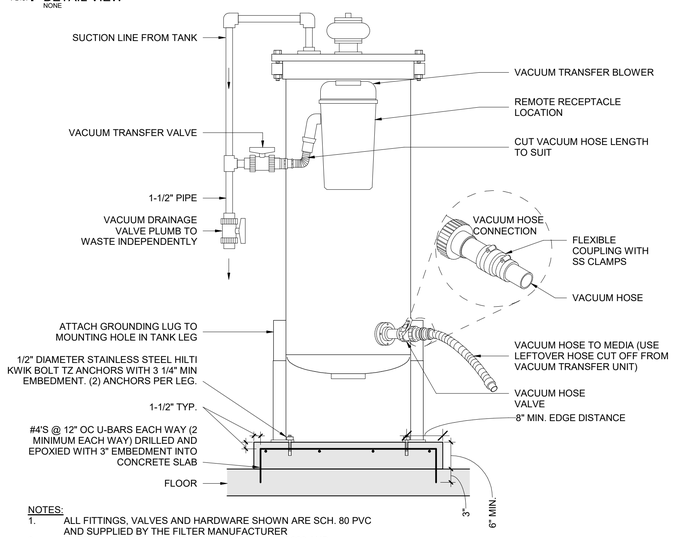
BUMP MECHANISM



EFFLUENT VALVE

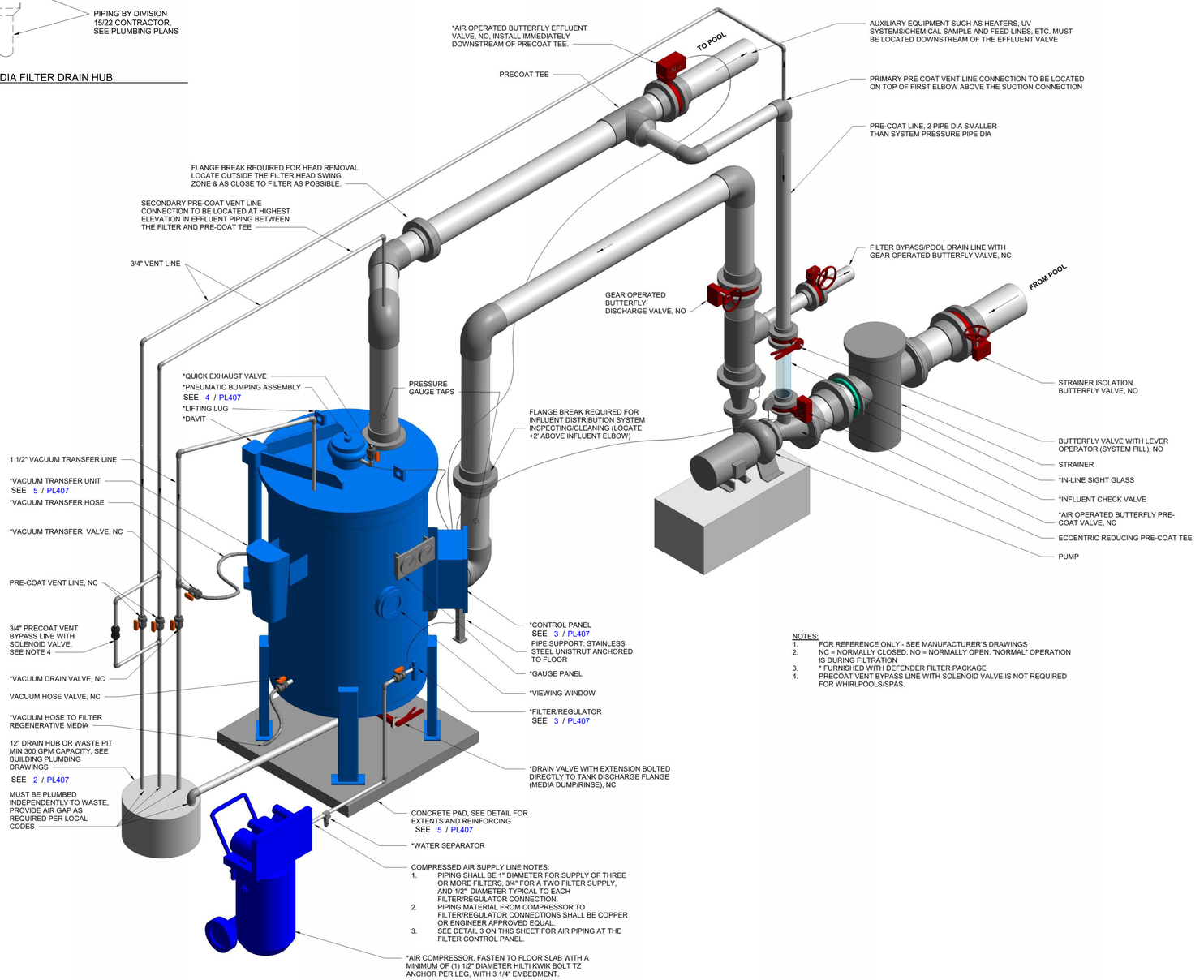
SOLENOID HOLE SETUP

4 | PL407 PNEUMATIC VALVE DIAGRAM DETAIL VIEW
NONE



NOTES:
1. ALL FITTINGS, VALVES AND HARDWARE SHOWN ARE SCH. 80 PVC AND SUPPLIED BY THE FILTER MANUFACTURER
2. FILTER SHALL BE BONDED/GROUNDED PER NEC680 AND MANUFACTURER'S INSTRUCTIONS

5 | PL407 VACUUM TRANSFER SYSTEM AND FILTER PAD DETAIL DETAIL VIEW
NONE



NOTES:
1. FOR REFERENCE ONLY - SEE MANUFACTURER'S DRAWINGS
2. NC = NORMALLY CLOSED, NO = NORMALLY OPEN, "NORMAL" OPERATION IS DURING FILTRATION
3. * FURNISHED WITH DEFENDER FILTER PACKAGE
4. PRECOAT VENT BYPASS LINE WITH SOLENOID VALVE IS NOT REQUIRED FOR WHIRLPOOLS/SPAS.

1 | PL407 DEFENDER FILTER SCHEMATIC DETAIL VIEW
NONE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FREBERG
P.E. 0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	Author
Checked By:	JB

Revisions:

Description	Date:

Sheet title:
MECHANICAL DETAILS

PL407

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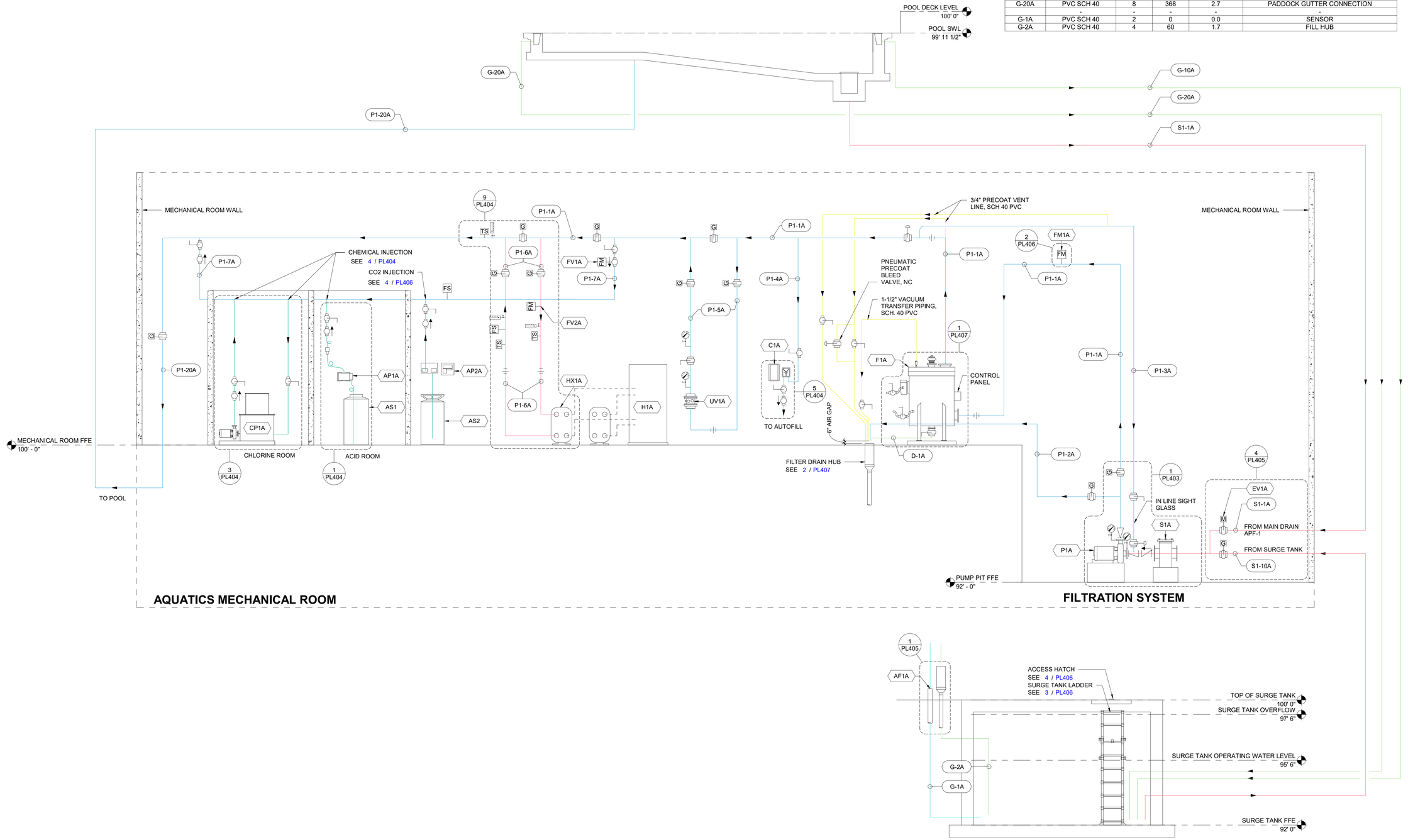
POOL A - LAP POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1A	PVC SCH 80	8	589	4.2	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	PVC SCH 80	8	589	4.2	FILTRATION PUMP SUCTION - SURGE TANK
	-	-	-	-	-
P1-1A	PVC SCH 80	6	589	7.4	FILTRATION SUPPLY
P1-2A	PVC SCH 80	4	300	8.5	POOL DRAIN LINE
P1-3A	PVC SCH 80	3	0	0.0	FILTER PRECOAT
P1-4A	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-5A	PVC SCH 80	6	589	7.4	UV LOOP
P1-6A	CPVC SCH 40	3	225	9.9	HEAT EXCHANGER LOOP
P1-7A	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
G-10A	PVC SCH 40	8	368	2.7	PADDOCK GUTTER CONNECTION
G-20A	PVC SCH 40	8	368	2.7	PADDOCK GUTTER CONNECTION
	-	-	-	-	-
G-1A	PVC SCH 40	2	0	0.0	SENSOR
G-2A	PVC SCH 40	4	60	1.7	FILL HUB



1 POOL A - MECHANICAL SCHEMATIC PLAN VIEW
PL510 1 : 100

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COLORADO LICENSED
BRIAN W. FREBERG
P.E.0042920
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POOL A - EXISTING LAP POOL MECHANICAL SCHEMATIC

PL510

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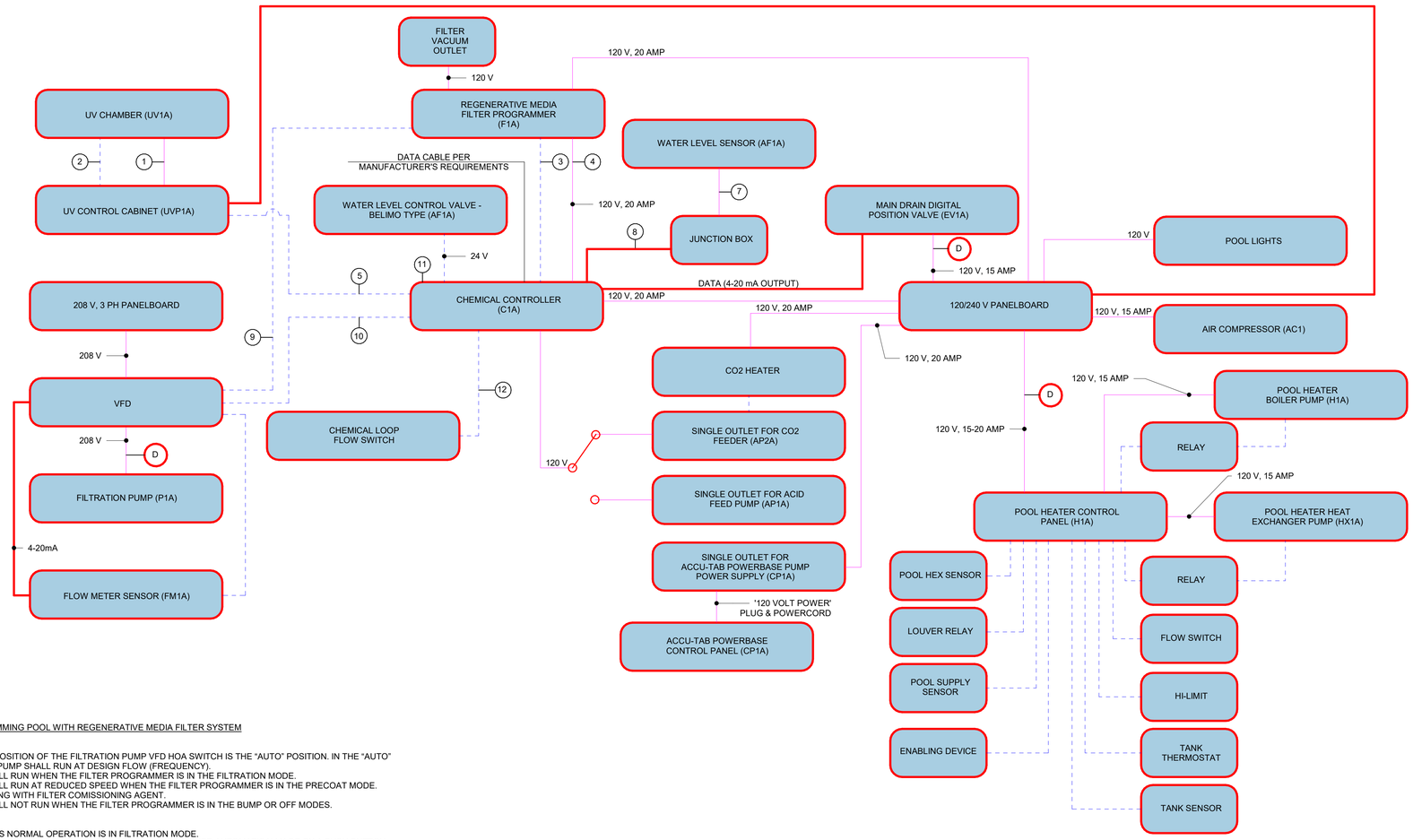

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH REGENERATIVE MEDIA FILTER SYSTEM

FILTRATION PUMP:
- THE NORMAL OPERATING POSITION OF THE FILTRATION PUMP VFD HOA SWITCH IS THE "AUTO" POSITION. IN THE "AUTO" POSITION THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY).
- THE FILTRATION PUMP SHALL RUN WHEN THE FILTER PROGRAMMER IS IN THE FILTRATION MODE.
- THE FILTRATION PUMP SHALL RUN AT REDUCED SPEED WHEN THE FILTER PROGRAMMER IS IN THE PRECOAT MODE. COORDINATE SPEED SETTING WITH FILTER COMISSIONING AGENT.
- THE FILTRATION PUMP SHALL NOT RUN WHEN THE FILTER PROGRAMMER IS IN THE BUMP OR OFF MODES.

FILTER PROGRAMMER:
- THE FILTER PROGRAMMER'S NORMAL OPERATION IS IN FILTRATION MODE.
- THE FILTER BUMP CYCLE IS ACTIVATED BY THE FILTER PROGRAMMER EITHER AUTOMATICALLY OR BY A PUSH BUTTON.
- THE FILTER PROGRAMMER SHALL RECEIVE A FEEDBACK SIGNAL FROM THE FILTRATION PUMP VFD THAT THE FILTRATION PUMP IS OPERATING.
- THE FILTER PROGRAMMER IS SUPPLIED WITH AUXILIARY CONTACTS TO DISABLE OTHER POOL EQUIPMENT WHEN THE FILTRATION PUMP IS NOT RUNNING DUE TO PUMP FAILURE (FEEDBACK SIGNAL FROM VFD) OR THE PROGRAMMER IS IN THE BUMP OR OFF MODES.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL CONTROLLER AND CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), THE IN-LINE FLOW SWITCH IS NOT MADE OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

CO2 FEED SOLENOID
- THE CO2 FEED SOLENOID IS ACTIVATED BY THE CHEMICAL FEED OUTLETS.

ACCU-TAB POWERBASE CHLORINE FEEDER:
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS POWERED BY THE PANELBOARD. THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS ALWAYS ON.
- THE ACCU-TAB POWERBASE CONTROLLER ACTIVATES THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

ULTRAVIOLET (UV) DISINFECTION UNIT:
- THE UV UNIT IS NORMALLY ON.
- THE UV UNIT SHALL BE INTERLOCKED SUCH THAT IF THE SELECTOR SWITCH IS IN THE BACKWASH POSITION THE UV SHALL BE TURNED OFF.
- THE UV NORMALLY RUNS IN VARIABLE POWER MODE.
- COMBINED CHLORINE UV CONTROL: WITH FREE AND TOTAL CHLORINE SENSORS, THE CONTROLLER SHALL PROVIDE UV BOOST CONTROL OF A UV SYSTEM BASED UPON THE COMBINED CHLORINE SET POINT. WHEN COMBINED CHLORINE IS ABOVE THE SET POINT THE UV SYSTEM SHALL BOOST TO 100% TO INCREASE THE CHLORAMINE DESTRUCTION RATE. THE UV SHALL RETURN TO VARIABLE POWER MODE ONCE COMBINED CHLORINE DROPS BELOW THE SET POINT.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID/CO2 FEED	HEATER	UV	ELECTRONIC MAIN DRAIN VALVE
BUMP	O	X	O	O	O	O	O (CLOSED)
PRECOAT	REDUCED SPEED	X	O	O	O	O	O (CLOSED)
OFF	O	X	O	O	O	O	O (CLOSED)
FILTRATION	X	X	X	X	X	X	X (MODULATING)

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. WIRING (LAMP POWER CORD) FURNISHED WITH UV UNIT AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FINAL CONNECTIONS TO UV CHAMBER AND CONTROL CABINET BY POOL CONTRACTOR
2. FURNISHED WITH UV UNIT AND INSTALLED BY POOL CONTRACTOR
3. TDS CONTROL.
4. POWER FOR THE CHEMICAL FEEDERS. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH, OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL DEACTIVATE CHEMICAL FEED TO THE SYSTEM.
5. UV BOOST SIGNAL BASED ON COMBINED CHLORINE.
6. NOT USED.
7. SENSOR CABLE FROM WATER LEVEL SENSOR. FURNISHED WITH WATER LEVEL SENSOR AND INSTALLED BY POOL CONTRACTOR.
8. CONDUCTOR CABLE CONTAINS POWER AND SIGNAL CABLES. COORDINATE REQUIREMENTS WITH WATER LEVEL SENSOR AND CHEMICAL CONTROLLER MANUFACTURERS.
9. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH MODE OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL DEACTIVATE THE CONNECTED POOL EQUIPMENT. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. INSTALL A CORROSION RESISTANT PADDLE FLOW SWITCH, MODEL FS1-6, MANUFACTURED BY KELE. WIRE THE SWITCH TO THE CHEMICAL CONTROLLER TERMINALS SUCH THAT THE SWITCH MUST BE ACTIVATED (INDICATING POSITIVE FLOW) FOR CHEMICALS TO FEED. POWER TO ALL CHEMICAL FEEDERS MUST BE DEACTIVATED IF EITHER THIS FLOW SWITCH OR THE ROTARY WHEEL FLOW SWITCH PROVIDED WITH THE CHEMICAL CONTROLLER ARE NOT ACTIVATED.

LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL511 POOL A - ELECTRICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED BRIAN W. FREBERG P.E.0042920 11/19/2025 PROFESSIONAL ENGINEER

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POOL A - EXISTING LAP POOL ELECTRICAL SCHEMATIC

PL511

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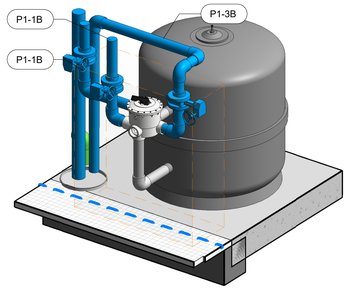

2 PL520 | FILTER FACE PIPING

POOL B - WADING POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-10B	PVC SCH 80	4	139	4.0	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER
S1-11B	PVC SCH 80	3	93	4.6	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER
S1-12B	PVC SCH 80	2.5	46	3.6	FILTRATION PUMP SUCTION - SKIMMER/ZERO DEPTH GUTTER CONNECTION TYPICA...
-	-	-	-	-	-
P1-1B	PVC SCH 80	3	139	6.9	FILTRATION SUPPLY
P1-3B	PVC SCH 80	4	177	5.0	FILTER BACKWASH
P1-4B	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-6B	CPVC SCH 80	2.5	0	0.0	HEAT EXCHANGER LOOP
P1-7B	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
-	-	-	-	-	-
P1-20B	PVC SCH 80	3	139	6.9	INLET SUPPLY
-	-	-	-	-	-
S2-10B	PVC SCH 80	4	120	3.4	ACTIVITY SUCTION
-	-	-	-	-	-
P2-10B	PVC SCH 80	3	120	6.0	ACTIVITY SUPPLY
P2-11B	PVC SCH 80	2	45	5.0	ACTIVITY SUPPLY HEADER
P2-12B	PVC SCH 80	1.5	33	6.2	ACTIVITY SUPPLY HEADER
P2-13B	PVC SCH 80	1.5	25	4.7	ACTIVITY SUPPLY HEADER
P2-20B	PVC SCH 80	2.5	75	5.8	GEYSER SUPPLY
P2-30B	PVC SCH 80	1.5	12	2.2	SPRAY TUNNEL 4
P2-40B	PVC SCH 80	1.5	8	1.5	FUN-GUY 4
P2-50B	PVC SCH 80	1.5	15	2.8	SLOSH 1
P2-60B	PVC SCH 80	1.5	10	1.9	WATER WEAVER
-	-	-	-	-	-
G-1B	PVC SCH 40	0.75	0	0.0	SENSOR CONDUIT
G-2B	PVC SCH 40	2	0	0.0	DECK WELL SENSOR PIPE
P-1B	PVC SCH 80	1.5	20	3.7	FILL PIPE MAIN
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G-10B	PVC SCH 40	3	28	1.4	MAINTENANCE DRAIN PIPE
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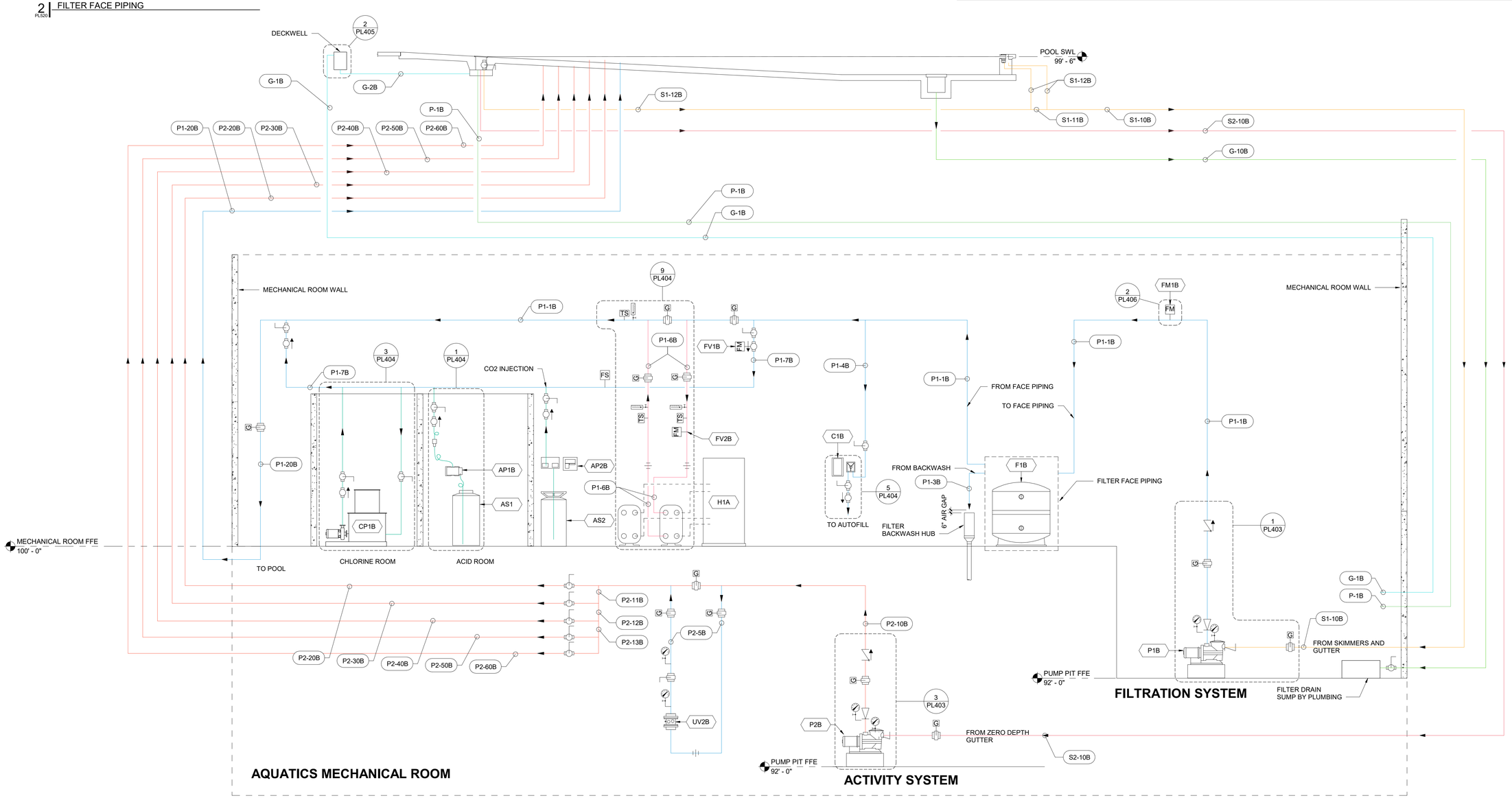

1 PL520 | POOL B - MECHANICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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COLORADO LICENSED
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POOL B - WADING POOL MECHANICAL SCHEMATIC

PL520

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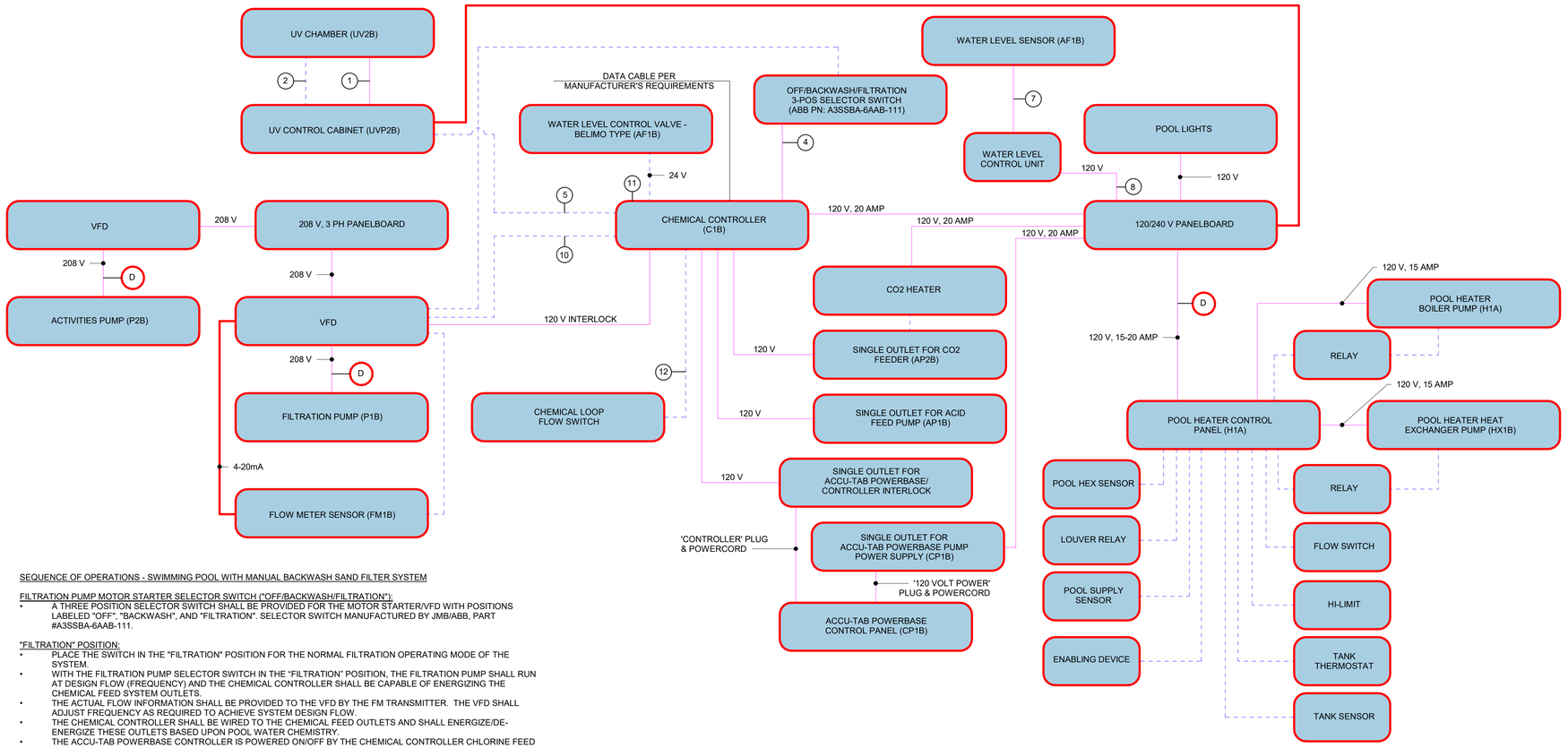

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH MANUAL BACKWASH SAND FILTER SYSTEM

FILTRATION PUMP MOTOR STARTER SELECTOR SWITCH ("OFF/BACKWASH/FILTRATION"):
- A THREE POSITION SELECTOR SWITCH SHALL BE PROVIDED FOR THE MOTOR STARTER/VFD WITH POSITIONS LABELED "OFF", "BACKWASH", AND "FILTRATION". SELECTOR SWITCH MANUFACTURED BY JMB/ABB, PART #A3SSBA-6AAB-111.

"FILTRATION" POSITION:
- PLACE THE SWITCH IN THE "FILTRATION" POSITION FOR THE NORMAL FILTRATION OPERATING MODE OF THE SYSTEM.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "FILTRATION" POSITION, THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY) AND THE CHEMICAL CONTROLLER SHALL BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS.
- THE ACTUAL FLOW INFORMATION SHALL BE PROVIDED TO THE VFD BY THE FM TRANSMITTER. THE VFD SHALL ADJUST FREQUENCY AS REQUIRED TO ACHIEVE SYSTEM DESIGN FLOW.
- THE CHEMICAL CONTROLLER SHALL BE WIRED TO THE CHEMICAL FEED OUTLETS AND SHALL ENERGIZE/DE-ENERGIZE THESE OUTLETS BASED UPON POOL WATER CHEMISTRY.
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER CHLORINE FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE FEED BOOSTER PUMP IS ACTIVATED BY THE ACCU-TAB POWERBASE CONTROLLER.
- THE ACID FEED PUMP IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER PH FEED OUTLET.
- IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

"BACKWASH" POSITION:
- PLACE THE SWITCH IN THE "BACKWASH" POSITION WHEN BACKWASHING THE FILTERS.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "BACKWASH" POSITION, THE FILTRATION PUMP SHALL RUN, BUT THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

"OFF" POSITION:
- PLACE THE SWITCH IN THE "OFF" POSITION TO TURN THE PUMP AND FILTRATION SYSTEM OFF.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "OFF" POSITION, THE FILTRATION PUMP SHALL BE OFF AND THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE, THE IN-LINE FLOW SWITCH IS NOT MADE OR THE SELECTOR SWITCH IS IN THE OFF OR BACKWASH POSITIONS; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

CO2 FEED SOLENOID
- THE CO2 FEED SOLENOID IS ACTIVATED BY THE CHEMICAL FEED OUTLETS.

ACCU-TAB POWERBASE CHLORINE FEEDER:
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS POWERED BY THE PANELBOARD. THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS ALWAYS ON.
- THE ACCU-TAB POWERBASE CONTROLLER ACTIVATES THE ACCU-TAB POWERBASE CHORINE BOOSTER PUMP.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP LOSES POWER WHILE IN THE FILTRATION MODE OR IF THE SELECTOR SWITCH IS IN THE OFF OR BACKWASH POSITIONS; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

ULTRAVIOLET (UV) DISINFECTION UNIT:
- THE UV UNIT IS NORMALLY ON.
- THE UV UNIT SHALL BE INTERLOCKED SUCH THAT IF THE SELECTOR SWITCH IS IN THE BACKWASH POSITION THE UV SHALL BE TURNED OFF.
- THE UV NORMALLY RUNS IN VARIABLE POWER MODE.
- COMBINED CHLORINE UV CONTROL: WITH FREE AND TOTAL CHLORINE SENSORS, THE CONTROLLER SHALL PROVIDE UV BOOST CONTROL OF A UV SYSTEM BASED UPON THE COMBINED CHLORINE SET POINT. WHEN COMBINED CHLORINE IS ABOVE THE SET POINT THE UV SYSTEM SHALL BOOST TO 100%. TO INCREASE THE CHLORAMINE DESTRUCTION RATE, THE UV SHALL RETURN TO VARIABLE POWER MODE ONCE COMBINED CHLORINE DROPS BELOW THE SET POINT.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID/CO2 FEED	HEATER	UV
OFF	O	X	O	O	O	O
BACKWASH	X	X	O	O	O	O
FILTRATION	X	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)
1. WIRING (LAMP POWER CORD) FURNISHED WITH UV UNIT AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FINAL CONNECTIONS TO UV CHAMBER AND CONTROL CABINET BY POOL CONTRACTOR
2. FURNISHED WITH UV UNIT AND INSTALLED BY POOL CONTRACTOR
3. NOT USED.
4. POWER FOR THE CHEMICAL FEEDERS. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH, OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL DEACTIVATE CHEMICAL FEED TO THE SYSTEM.
5. UV BOOST SIGNAL BASED ON COMBINED CHLORINE.
6. NOT USED.
7. SENSOR CABLE FROM WATER LEVEL SENSOR. FURNISHED WITH WATER LEVEL SENSOR AND INSTALLED BY POOL CONTRACTOR.
8. CONDUCTOR CABLE CONTAINS POWER AND SIGNAL CABLES. COORDINATE REQUIREMENTS WITH WATER LEVEL SENSOR AND CHEMICAL CONTROLLER MANUFACTURERS.
9. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH MODE OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL DEACTIVATE THE CONNECTED POOL EQUIPMENT. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. INSTALL A CORROSION RESISTANT PADDLE FLOW SWITCH, MODEL FS1-6, MANUFACTURED BY KELE. WIRE THE SWITCH TO THE CHEMICAL CONTROLLER TERMINALS SUCH THAT THE SWITCH MUST BE ACTIVATED (INDICATING POSITIVE FLOW) FOR CHEMICALS TO FEED. POWER TO ALL CHEMICAL FEEDERS MUST BE DEACTIVATED IF EITHER THIS FLOW SWITCH OR THE ROTARY WHEEL FLOW SWITCH PROVIDED WITH THE CHEMICAL CONTROLLER ARE NOT ACTIVATED.

LEGEND:
- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL521 POOL B - ELECTRICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
BRIAN W. FREEBERG
P.E.0042920
11/19/2025
PROFESSIONAL ENGINEER

Project Number:	25204
Issue:	PERMIT SET
Date:	01/09/2026
Drawn By:	Author
Checked By:	JB

Revisions:

Description	Date:

Sheet title:
POOL B - WADING POOL ELECTRICAL SCHEMATIC

PL521

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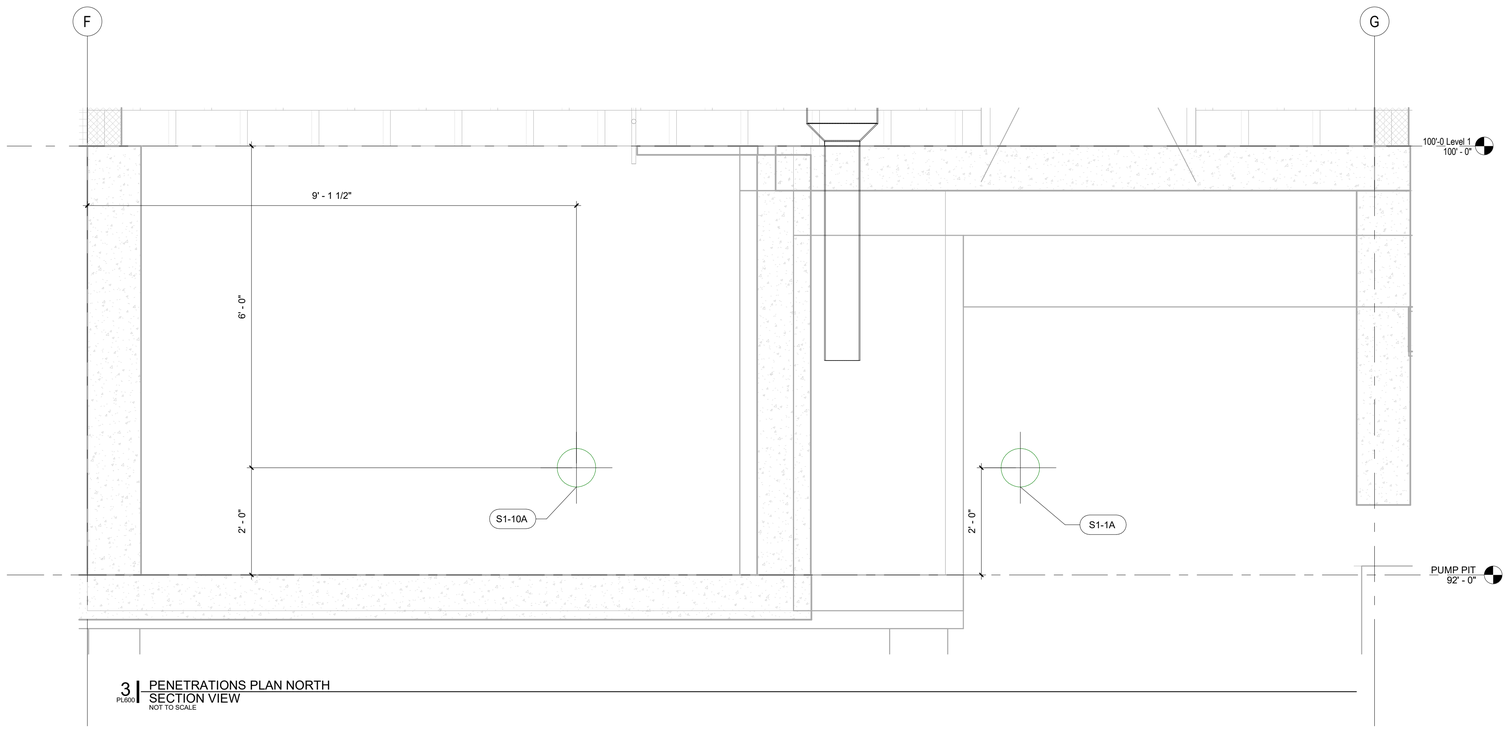


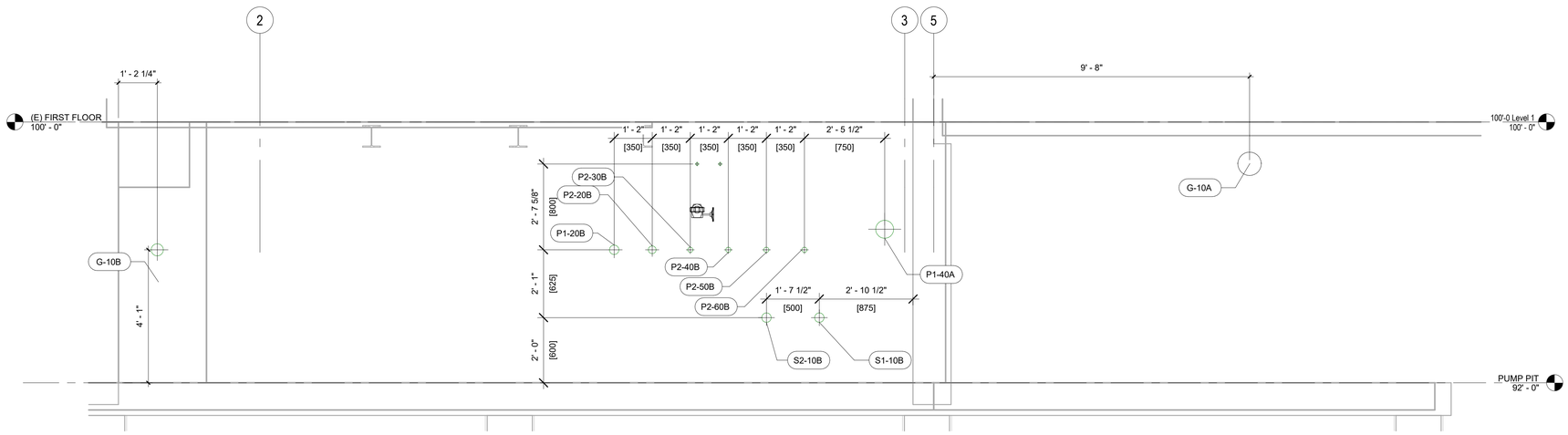
3 PL600 PENETRATIONS PLAN NORTH SECTION VIEW
NOT TO SCALE

POOL A - LAP POOL PENETRATION SCHEDULE

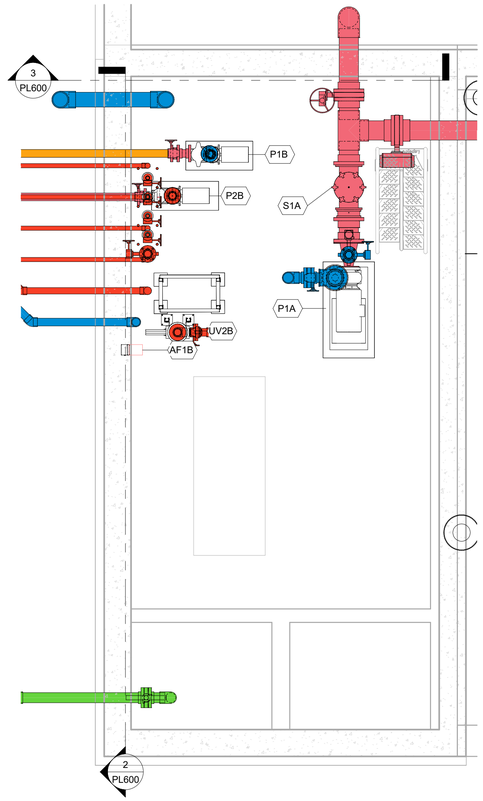
PIPE ID	DETAIL	NPS (in)	SLEEVE MODEL #	DESCRIPTION
S1-1A		8	CS-12	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A		8	CS-12	FILTRATION PUMP SUCTION - SURGE TANK
-		-	-	-
G-10A		8	CS-12	PADDOCK GUTTER CONNECTION
-		-	-	-
P1-40A		6	CS-10	INLET SUPPLY (PADDOCK)
-		-	-	-

POOL B - WADING POOL PENETRATION SCHEDULE

PIPE ID	DETAIL	NPS (in)	SLEEVE MODEL #	DESCRIPTION
S1-10B		4	CS-6	FILTRATION PUMP SUCTION - SKIMMER/ZERO...
-		-	-	-
S2-10B		4	CS-6	ACTIVITY SUCTION
-		-	-	-
P1-20B		3	CS-5	INLET SUPPLY
P2-20B		2.5	CS-4	GEYSER SUPPLY
P2-30B		1.5	CS-3-1/2	SPRAY TUNNEL 4
P2-40B		1.5	CS-3-1/2	FUN-GUY 4
P2-50B		1.5	CS-3-1/2	SLOSH 1
P2-60B		1.5	CS-3-1/2	WATER WEAVER
-		-	-	-
G-10B		3	CS-5	MAINTENANCE DRAIN PIPE
-		-	-	-



2 PL600 PENETRATIONS PLAN WEST SECTION VIEW
NOT TO SCALE



1 PL600 PUMP PIT LAYOUT PLAN VIEW
NOT TO SCALE

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Superior North Pool Reno

1650 S INDIANA ST, SUPERIOR, CO 80027

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BRIAN W. FREEBO
P.E.0042920
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PROFESSIONAL ENGINEER

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PIPE PENETRATIONS

PL600

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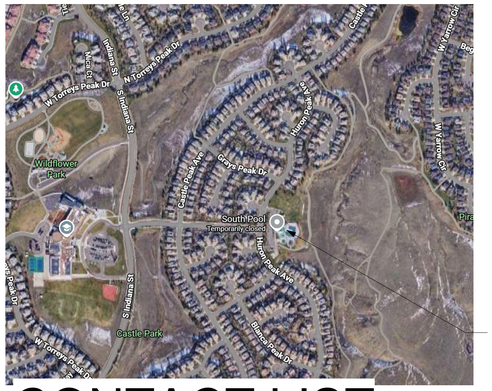
Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

VICINITY MAP



PROJECT SITE



CONTACT LIST

OWNER:

TOWN OF SUPERIOR, CO
124 EAST COAL CREEK DRIVE
SUPERIOR, CO 80027
303.499.3675

Leslie Clark, Director of PROS
lesliec@superiorcolorado.gov
Jordan Hayes, Project Manager
jordanh@superiorcolorado.gov

ARCHITECT:

BARKER RINKER SEACAT ARCHITECTURE
990 SOUTH BROADWAY, SUITE 222
DENVER, CO 80209
303.455.1366

Jason Ringdahl, Principal in Charge
jasonringdahl@brsarch.com
Mary Schambach, Project Manager
maryschambach@brsarch.com
Caitlin Milligan, Design Manager
caitlinmilligan@brsarch.com

CIVIL:

TAIT
320 NORTH LINCOLN AVE
LOVELAND, CO 80537
970.613.1447

Mark Oberschmidt
moberschmidt@tait.com

LANDSCAPE:

CONFLUENCE
3001 BRIGHTON BLVD, SUITE 2898
DENVER, CO 80216
303.433.7100

Chris Sutterfield
csutterfield@thinkconfluence.com

STRUCTURAL:

JVA
1319 SPRUCE STREET
BOULDER, CO 80302
303.444.1951

Derek M. Pedersen
dpedersen@jvajva.com

MECHANICAL/PLUMBING:

THE BALLARD GROUP, INC.
2525 S WADSWORTH BLVD
#200
LAKEWOOD, CO 80227
303.988.4514

Peter Failla
pfailla@theballardgroup.com
John Blair
jblair@theballardgroup.com

ELECTRICAL:

REESE HACKMAN
9781 SOUTH MERIDIAN BLVD
#220
ENGLEWOOD, CO 80112
720.842.5317

Mark Layfield
mlayfield@reesehackman.com

AQUATICS:

WATER TECHNOLOGY
100 PARK AVE
BEAVER DAM, WI 53916
920.887.7375

Doug Whiteaker
dwhiteaker@watertechnologyinc.com

SHEET LIST

SHEET NO.	SHEET NAME
GENERAL	
G000	ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
G011	CODE ANALYSIS, LIFE SAFETY PLAN & WALL TYPES
CIVIL	
C-1	EXISTING CONDITIONS/DEMOLITION PLAN
C-2	SITE PLAN
C-3	HORIZONTAL CONTROL PLAN
C-4	GRADING AND STORM PLAN
C-5	UTILITY PLAN
C-6	EROSION CONTROL PLAN
C-7	UTILITY DETAILS
C-8	SITE DETAILS
LANDSCAPE	
L200	LAYOUT PLAN
L300	DETAILS
ARCHITECTURE	
A011	DEMOLITION PLANS
A012	DEMOLITION RCPS
A013	DEMOLITION ELEVATIONS
A100	ARCHITECTURAL SITE PLAN
A101	OVERALL FIRST FLOOR PLAN - ANNOTATIONS
A102	OVERALL FIRST FLOOR PLAN - DIMENSIONS
A131	OVERALL ROOF PLAN
A150	ADD ALTERNATE - CONC SLAB DEMOLITION
A211	OVERALL FIRST FLOOR RCP
A301	PARTIAL BUILDING ELEVATIONS
A311	PARTIAL BUILDING SECTIONS
A400	WALL SECTIONS
A401	DETAIL SECTIONS
A600	TOILET ACCESSIBILITY GUIDELINES, ACCESSORY GROUPS, ACCESSORY NOTES & ACCESSORY LOCATION
A610	INTERIOR ELEVATIONS
A611	ENLARGED PLANS, INTERIOR ELEVATIONS & DETAILS - CONTROL DESK
A612	ENLARGED PLANS, SECTIONS - EXTERIOR PUMP PIT
A613	ENLARGED PLANS, SECTIONS - (E) PUMP PIT & DRINKING FOUNTAIN
A630	MILLWORK DETAILS
A631	MILLWORK DETAILS - CONTROL DESK
A700	DOOR SCHEDULES & TYPES, WINDOW TYPES
A900	GENERAL FINISH NOTES & DETAILS
A901	FINISH LEGEND
A911	OVERAL FIRST FLOOR FINISH PLAN
A951	OVERALL FIRST FLOOR SIGNAGE PLAN
A970	SIGNAGE DRAWINGS AND DETAILS
STRUCTURAL	
S001	GENERAL NOTES
S101	FIRST FLOOR/FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S501	TYPICAL DETAILS
S510	SECTIONS & DETAILS
MECHANICAL	
M000	HVAC COVER SHEET
M021	HVAC DEMOLITION PLAN
M101	OVERALL FIRST FLOOR HVAC PLAN
M700	HVAC SCHEDULES, DETAILS AND TEMPERATURE CONTROL DIAGRAMS

SHEET NO.	SHEET NAME
PLUMBING	
P000	PLUMBING COVER SHEET
P021	PLUMBING DEMOLITION PLAN
P090	OVERALL PLUMBING PLAN
P100	FOUNDATION PLUMBING PLAN
P101	FIRST FLOOR PLUMBING PLAN
P600	PLUMBING SCHEDULES
P700	PLUMBING DETAILS
P800	PLUMBING ISOMETRICS
ELECTRICAL	
E001	ELECTRICAL LEGEND AND GENERAL NOTES
E101	SITE ELECTRICAL DEMOLITION PLAN
E102	SITE ELECTRICAL PLAN
E201	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
E301	FIRST FLOOR POWER PLAN
E401	FIRST FLOOR LIGHTING PLAN
E601	ELECTRICAL ONE-LINE DIAGRAM
E701	ELECTRICAL SCHEDULES
E702	ELECTRICAL SCHEDULES
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS
AQUATICS	
D100	DEMOLITION PLAN
PL100	OVERALL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - LEISURE POOL PLAN
PL111	POOL A - LEISURE POOL DIMENSION PLAN
PL112	POOL A - LEISURE POOL SECTIONS
PL113	POOL A - LEISURE POOL DETAILS
PL114	POOL A - LEISURE POOL DETAILS
PL115	POOL A - LEISURE POOL DETAILS
PL116	POOL A - CLIMBING WALL SAFETY ZONE
PL117	POOL A - SLIDE
PL120	POOL B - SPLASH PAD PLANS
PL121	POOL B - SPLASH PAD DETAILS
PL122	POOL B - SPLASH PAD DETAILS
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL201	STRUCTURAL PLAN(S) AND SCHEDULE
PL210	STRUCTURAL GENERAL DETAILS
PL211	STRUCTURAL DETAILS
PL212	STRUCTURAL DETAILS
PL213	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL302	GENERAL PIPING DETAILS
PL310	POOL A - LEISURE POOL PIPING PLAN
PL311	POOL A - LEISURE POOL PIPING PLAN
PL320	POOL B - SPLASH PAD PIPING PLAN
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL ROOM PIPING PLAN
PL402	MECHANICAL EQUIPMENT SCHEDULES
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL406	MECHANICAL DETAILS
PL407	MECHANICAL DETAILS

SHEET NO.	SHEET NAME
PL510	POOL A - MECHANICAL SCHEMATIC
PL511	POOL A - ELECTRICAL SCHEMATIC
PL520	POOL B - MECHANICAL SCHEMATIC
PL521	POOL B - ELECTRICAL SCHEMATIC
PL600	PIPE PENETRATIONS
PL601	PIPE PENETRATIONS

PRICING ALTERNATES:

1. **DEDUCT ALTERNATE: REMOVE 2 FEATURES FROM SPLASHPAD, 2 RESTORATIVE JETS & AND 3 WATER GEYSERS AT CURRENT CHANNEL (PL110, PL311)**
   Alternate includes removing the features and the associated piping. Locations where features are hosted to follow details on PL113.
2. **ADD ALTERNATE: REPLACE CONCRETE FLOORING IN RESTROOMS (A150)**
   Alternate includes chipping out existing concrete in the existing composite floor and leaving the metal deck in place. New concrete is to be poured over the existing metal deck and sloped to drain. Mosaic porcelain floor tile to be included in either option.
3. **ADD ALTERNATE: LIGHTING PROTECTION (26 0526, 28 5000)**
   Only at the Bathhouse.
4. **DEDUCT ALTERNATE: DECK SHOWERS**
   Alternate includes removing the showers located on the existing exterior column, along with the associated piping. No extra demolition would occur to the existing exterior columns.
5. **ADD ALTERNATE: 4 SHADE STRUCTURES ON POOL DECK (L200, L300)**
   Alternate includes both the shade and concrete foundations. Locations where foundations would occur to be filled in with concrete deck.
6. **DEDUCT ALTERNATE: GUARDS 105 & STORAGE 104 TO REMAIN AS IS (A101, A610, A211)**
   Alternate includes removing new ceiling, FRP and tile on the walls, casework and plumbing, and porcelain mosaic tile floor. A new door and frame for each room is to remain in the project in either option.
7. **DEDUCT ALTERNATE: REMOVE UNDERWATER LED LIGHTS FROM POOL SCOPE (E102)**
   Alternate includes removing the power and fixture from scope. The pool shell will not include infrastructure for future lights.
8. **DEDUCT ALTERNATE: REMOVE NEW LIGHT BOLLARDS ON POOL DECK FROM SCOPE (E101 & E102)**
   Existing bollards to be salvaged and saved for reuse if possible.
9. **DEDUCT ALTERNATE: REMOVE ALL WALL TILE AT RESTROOMS (A610, A901, A911)**
   CMU and stud walls to be painted in lieu of wall tile.
10. **DEDUCT ALTERNATE: REMOVE TWO TALL WARDROBE CABINETS AT CONTROL DESK (A611 & A631)**
    Wall to be painted and porcelain wall base to continue across wall.
11. **DEDUCT ALTERNATE: REMOVE STOREFRONT DOORS AT FRONT AND BACK LOBBY (A011, A101, A700)**
    Existing doors to remain as is.
12. **DEDUCT ALTERNATE: REPLACE THE LIFEFLOOR FINISH AT THE SPLASHPAD WITH FINISHED CONCRETE (PL120, PL121, PL122)**
    Finished concrete to be CONC03 on Finish Legend on A901.



BARKER RINKER SEACAT ARCHITECTURE

MARCH 27, 2026 - 100% CD

Superior South Pool - 2025.082

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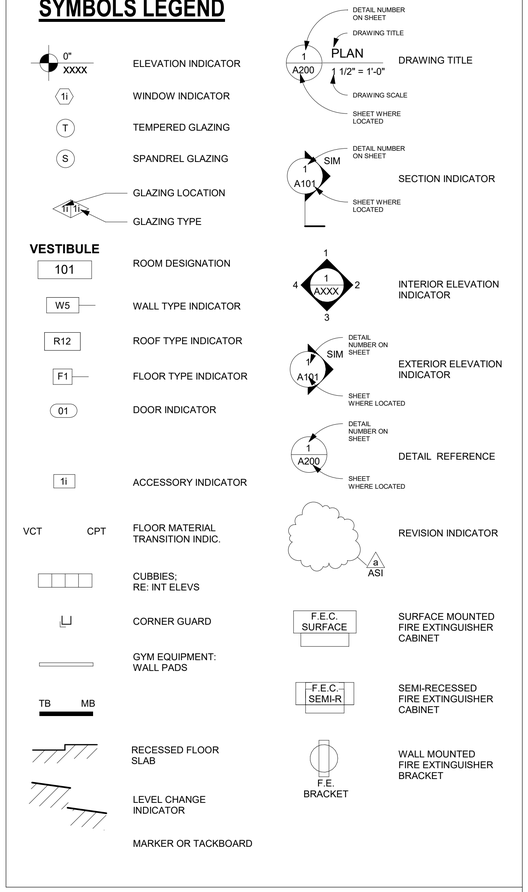
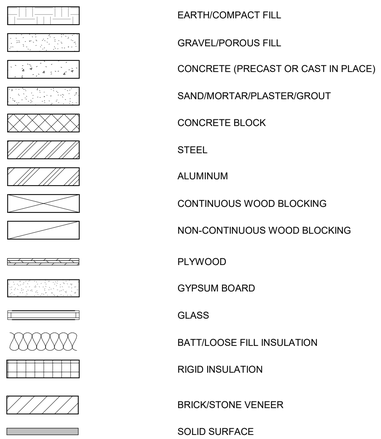
ABBREVIATIONS

AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE OR ACCESSIBILITY
ACCT	ACCENT
ACOUST	ACOUSTICAL
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
ADJT	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM/AL	ALUMINUM
ALT	ALTERNATE
APC	ACRYLIC POLYMER COATING
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AUTO	AUTOMATIC
AWI	AMERICAN WOODWORKING INST.
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BM	BEAM
B.O.	BOTTOM OF
BRG	BEARING
CAB	CABINET
CBB	CEMENTITIOUS BACKER BOARD
CFA	COMPUTER FLOOR AREA
CHNLS	CHANNELS
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMT-B	CERAMIC MOSAIC TILE BASE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONSTR	CONSTRUCTION
COORD	COORDINATE
CSWK	CASEWORK
CWT	CERAMIC WALL TILE
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM.	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV/EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
ENGR	ENGINEERED
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EX	EXPOSED
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
FACT-F	FACTORY FINISH
FBGL	FIBERGLASS
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FG	FINISH GRADE
FIN	FINISH(ED)
FIN-FLR	FINISH FLOOR
FIXT	FIXTURE
FLD	FIELD
FLR	FLOOR
FLRG	FLOORING
FO	FACE OF
FOS	FACE OF STUD
FR	FIRE RESISTIVE
FR	FRAME
FRMG	FRAMING
FRP	FIBER REINFORCED PANEL
FT	FOOT/FEET
FTG	FOOTING
FURN	FURNITURE
FUT	FUTURE
GA	GAUGE
GAL	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GHM	GALVANIZED HOLLOW METAL
GL	GLASS
GR	GRADE
GYP BD/GWB	GYPSUM BOARD
HC	HOLLOW CORE
HDR	HEADER
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ/H	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HT/H	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTING & AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
INDIC	INDICATOR
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
JST	JOIST
KD	KNOCK DOWN
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LT	LIGHT
MAT.	MATERIAL
MANUF	MANUFACTURE
MAX	MAXIMUM
MB	MARKER BOARD
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MISC	MISCELLANEOUS
MIN	MINIMUM
MIR	MIRROR
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MEETING
MTL	METAL
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
NOM	NOMINAL
NON-COM	NON-COMBUSTIBLE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC/OFF	OFFICE
OH	OVER HEAD
OPG	OPENING
OPP	OPPOSITE
OV	OVER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PL	PROPERTY LINE
PL	PLATE
PLG	PLUMBING
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
POR	PORCELAIN TILE
PT	PAINT
PTN	PARTITION
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE.	REFER/REFERENCE
REF	REFRIGERATOR
REINF	REINFORCED
REQ	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
SAT	SUSPENDED ACOUSTICAL TILE
SC	SOLID CORE
SCHED	SCHEDULE
S-CONC	SEALED CONCRETE
SEAL	SEALER
SECT	SECTION
SF	SQUARE FOOT/FEET
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	SOLID SURFACE
S-STL	STAINLESS STEEL
ST	STAIN
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STHG	SHEATHING
STL	STEEL
SUPPL	SUPPLIED
SUSP	SUSPENDED
STOR	STORAGE
STR	STRINGER
STRL	STRUCTURAL
STRUCT	STRUCTURE, STRUCTURAL
SYM	SYMMETRICAL
SYST	SYSTEM
T	TREAD (IN PLAN)
T	TEMPERED (ON WINDOW)
TB	TACK BOARD
TBB	TILE BACKER BOARD
TBD	TO BE DETERMINED
T&B	TOP & BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICKNESS
THLD	THRESHOLD
T.O.	TOP OF
T.O. B	TOP OF BEAM
T.O. C	TOP OF CONCRETE
T.O. F	TOP OF FLR/FOOTING
T.O. M	TOP OF MASONRY
T.O. S	TOP OF SLAB
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VNR	VENEER
VER/V	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOC	VOLATILE ORGANIC COMPOUND
W	WASHER (IN PLAN)
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WATER HEATER
W/O	WITHOUT
WP	WATERPROOF
WR	WATER RESISTANT
WT	WEIGHT

SYMBOLS LEGEND



MATERIALS LEGEND



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,0´ or °	DIAMETER
P L	PLATE
@	AT
X	BY
&	AND
#	POUND OR NUMBER
+/-	PLUS OR MINUS
'	FEET
"	INCHES
( )	QUANTITY

REFER TO CONSTRUCTION SPECIFICATION INSTITUTE, UNIFORM DRAWING SYSTEM AND TO PROJECT SPECIFICATIONS FOR REFERENCE STANDARDS & ADDITIONAL ABBREVIATIONS

GENERAL NOTES

GENERAL REQUIREMENTS

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.

2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.

4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.

5. MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, AND SUCH.

6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

8 ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.

9. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.

10. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODE & LOCAL AMENDMENTS. REFER TO CODE ANALYSIS AND CODE PLANS.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES.

12. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL CONDUCT A WALK THROUGH INSPECTION WITH THE OWNER TO DETERMINE IN WRITING THE CONDITION OF THE WORK ALREADY IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EQUIPMENT PRESENTLY IN PLACE THAT IS DAMAGED DURING CONSTRUCTION.

13. CONTRACTOR SHALL SUBMIT CONFIRMATION OF ORDERED MATERIALS OR ITEMS NECESSARY TO COMPLETE THE PROJECT WITH PROJECTED DELIVERY DATE GREATER THAN FOUR WEEKS.

14. ALL SUB-CONTRACTORS SHALL SUBMIT SHOP DRAWINGS AS REQUIRED FOR ARCHITECTS APPROVAL PRIOR TO COMMENCING ANY WORK.

DRAWINGS AND DIMENSIONS

1. DO NOT SCALE THE DRAWINGS.

2. ALL DIMENSIONS ON PLANS ARE TO FACE OF BLOCK OR TO FACE OF STUD UNLESS NOTED OTHERWISE.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.

6. SEE GENERAL NOTES ON ALL 'A' SERIES DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.

7. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

8. CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.

9. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

10. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING FIXTURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE CONSTRUCTION REQUIREMENTS.

11. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE EXPOSED DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

12. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES INSTALLING THEIR RESPECTIVE EQUIPMENT IN THE CEILING PLENUMS. MECHANICAL, ELECTRICAL, AND STRUCTURAL ALL SHARE THIS SAME SPACE. EACH SUB CONTRACTOR IS TO REVIEW THE REQUIREMENTS OF THEIR WORK WITH THE AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THESE SPACES AND MUST NOT ASSUME THAT THEIR INSTALLATION HAS BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES.

PARTITION NOTES

1. PROVIDE AND INSTALL ALL BLOCKING STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.

2. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.

CONSTRUCTION NOTES

1. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS (TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS). DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESS FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.

2. PROVIDE SOLID BLOCKING WITHIN PARTITIONS AT ALL LOCATIONS WHERE ITEMS WILL BE MOUNTED ON PARTITIONS INCLUDING, BUT NOT LIMITED TO: ACCESSORIES, CASEWORK TRIM, FLASHING, WALL MOUNTED EQUIPMENT, TACK/BULLETIN/MARKER BOARDS, ETC.

3. PROVIDE 24" X 24" ACCESS PANELS IN PARTITIONS WHERE REQUIRED FOR MECHANICAL EQUIPMENT EXCEPT WHERE SIZES ARE OTHERWISE NOTED.

4. PROVIDE GYPSUM BOARD CONTROL JOINTS IN PARTITIONS AND CEILINGS AT 30'-0" MAX SPACING. COORDINATE TO MEET FIRE RESISTIVE RATINGS OF THE ASSEMBLY, FIRESTOP JOINTS AT RATED PARTITIONS. SUB-CONTRACTOR MUST PROVIDE A SUBMITTAL FOR JOINT MATERIAL.

5. CAULK ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND WHERE THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

6. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS BOTH DESCRIBE VARIOUS FLOOR SLAB SLOPE REQUIREMENTS, RECESSES, AND EDGE CONDITIONS. USE BOTH SETS OF DRAWINGS WHEN INSTALLING THE FLOOR SLAB.

7. ASSUME LEVEL 4 FINISH FOR ALL GYPSUM BOARD PARTITIONS, UNLESS NOTED OTHERWISE.

8. GROUT CMU CENTER SCORE JOINT SIMILAR TO OTHER ADJACENT JOINTS.

9. ALL VERTICAL AND HORIZONTAL PIPES, CONDUITS, DUCTS, ETC. IN FINISHED ROOMS OR AREAS THROUGHOUT THE BUILDING SHALL BE FURRED IN TO MATCH THE ROOM FINISH, UNLESS OTHERWISE NOTED.

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT
3/23/26

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CM
Checked By:	MS

Revisions:

Description	Date:

Sheet title:

ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

G000

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Superior South Pool Calculations

BUILDING ONLY

CODE REVIEW

IBC PLUMBING FIXTURE REQUIREMENTS

Review Based on: IBC 2018/Chapter 29

Required fixture summary - B Business Occupancy- Bath House — Based on Group A Overall Occupancy

Occupants	People	WCs/Urinal			Lavatory*		Showers		Drinking Fountains		Mop/Service Sinks		Acc./Public Sinks	
		req.	min. req. WC	proj.	req.	proj.	req.	proj.	req.	proj.	req.	proj.	req.	proj.
Male	5	1	1	2	1.0	2	not req.	1	1.0	1	0.5	1		
Urinals			0	2										
Unisex (counted towards Male req.)				1		1		1						
Subtotal Men			1	5.0		3.0		2.0		1.0		1.0		
Female	5	1	1	4	1.0	3	not req.	1	1.0		0.5			
Unisex (counted towards Women req.)														
Subtotal Women			1	4.0		3.0		1.0		0.0		0.0		
Total	10		2.0	9.0	2.0	6		3	1.0	1		1		

OCCUPANT LOAD CALCULATIONS

Room Number	Room Name	Area	Occupant Load Factor (per Table 1004.1.2)	Load	Function of Space (per Table 1004.1.2)
100	LOBBY	226 SF			CIRCULATION
100A	CONTROL	265 SF	150	2	BUSINESS
101	WOMENS	313 SF			RESTROOM
102	FAMILY CHANGING	82 SF			RESTROOM
103	JAN	58 SF	300	1	ACCESSORY STORAGE AREAS
104	STO	159 SF	300	1	ACCESSORY STORAGE AREAS
105	GUARDS	143 SF	150	1	BUSINESS
106	MENS	291 SF			RESTROOM
107	POOL MECH	405 SF	300	2	ACCESSORY STORAGE AREAS
108	CHEM	50 SF	300	1	ACCESSORY STORAGE AREAS
109	ELEC	48 SF	300	1	ACCESSORY STORAGE AREAS
110	CHEM	16 SF	300	1	ACCESSORY STORAGE AREAS
				10	

CODE LEGEND

- 1 HOUR RATED BARRIER
- 12' — TRAVEL DISTANCE
- 23 — EXITING LOAD AND DIRECTION OF TRAVEL
- VESTIBULE / 101 / Load OCC — ROOM NAME / ROOM NUMBER / OCCUPANT LOAD
- PANIC HARDWARE
- ALARMED PANIC HARDWARE
- FE — FIRE EXTINGUISHER
- EXIT LIGHT (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)

OCCUPANT LOAD FACTOR
Section 1004, Table 1004.1.2 Maximum floor area allowances per occupant (see Code Plans for occupancy, total occupants and egress calculations)

Business Areas	150 gross
Mechanical	300 gross
Pool Water Surface	50 gross
Pool Deck Surface	15 gross

PROJECT NAME
SCOPE OF WORK DESCRIPTION

Project Description:
Renovation of existing bathhouse and demolition & replacement of the existing leisure and wading pools with new. The existing leisure pool will be replaced with a new pool and the existing wading pool will be converted to a spray ground. The water slide will be replaced with new. The bathhouse interior will be partially demolished and renovated with an expanded pool equipment room, new locker room layouts, a new family changing room, and renovated lobby, staff, and storage areas.

Project Location: 3300 Huron Peak Avenue, Superior, CO 80027
Date: December 23, 2025
By: Caitlin Milligan, BRS Architecture

CODES OF JURISDICTION:
· 2018 International Building Code
· 2023 National Electric Code
· 2018 International Plumbing Code
· 2018 International Mechanical Code
· 2018 International Fire/Life Safety Code
· 2021 International Energy Conservation Code
· 2018 International Fuel & Gas Code
· 2018 International Swimming Pool and Spa Code

PROJECT DATA SUMMARY

Construction Type: VB - Outdoor Pool (non separated)

Number of Stories: 1

Occupancy Types: B

Gross Square Feet: 2,504 GSF

IECC Compliance Method: Prescriptive

Automatic Sprinkler Systems: No

Fire Alarm & Detection: No

TOWN OF SUPERIOR ZONING CODE

Zoning: XSU (Town of Superior)

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

B Business

Section 303.1.1 Small Buildings and Tenant Spaces
A building or tenant space used for assembly purposes with an occupant load of less than 50 persons shall be classified as a Group B occupancy.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

Hazardous Materials - Calcium Hypochlorite Tabs

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

Allowable Building Height: 40' (B-occupancy, non-sprinklered, Type VB)

Allowable Number of Stories: 2 (B-occupancy, non-sprinklered, Type VB)

Allowable Building Area (At):
B Occupancy (NS): 9,000 GSF per floor

Table 509 Incidental Uses
Furnace room where any piece of equipment is over 400,000 Btu per hour input = 1 hour separation

Section 509.4.1 Separation
Where Table 509 specifies a fire-resistance-rated separation, the incidental uses shall be separated from the remainder of the building by a fire-barrier constructed in accordance with Section 707.

CHAPTER 6 - TYPES OF CONSTRUCTION

Table 601 - Type VB
Primary structural frame: 0 hr
Bearing Walls -Exterior: 0 hr
Bearing walls - Interior: 0 hr
Exterior Nonbearing Walls: see Table 602 values below.
Interior Nonbearing Walls – 0 hr
Floor Construction and associated secondary members: 0 hr
Roof Construction and associated secondary members: 0 hr

CHAPTER 8 - INTERIOR FINISHES

Section 803 Wall & Ceiling Finishes
All interior finish materials meet the minimum required fire performance and smoke development rating per section 803.

Section 803.1.1 Interior Wall and Ceiling Finish Materials
Interior wall and ceiling finish materials shall be classified in accordance with ASTM E 84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke development indexes.

Class A - Flame Spread Index 0-25: Smoke-Developed index 0-450
Class B - Flame Spread Index 26-75: Smoke-Developed index 0-450
Class C - Flame Spread Index 76-200: Smoke-Developed index 0-450

CHAPTER 9 - FIRE PROTECTION

Section 906 Portable Fire Extinguishers Where Required.
Re: Code Plans for locations.

CHAPTER 10 - MEANS OF EGRESS

Section 1006.2.2.1 Boiler, Incinerator and Furnace Rooms
Two exit access doorways are required in boiler, incinerator and furnace rooms where the area is over 500 square feet and any fuel-fired equipment exceeds 400,000 British Thermal Units input capacity.

CHAPTER 11 - ACCESSIBILITY

Section 1103.2.9 Equipment Spaces
Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment are not required to comply with this chapter.

PLUMBING FIXTURE COUNTS

CHAPTER 29 - PLUMBING SYSTEMS

IBC: Table 2902.1 Minimum Number of Required Plumbing Fixtures
Assembly: Outdoor sporting events and activities

Exception f: The required number and type of plumbing fixtures for outdoor swimming pools shall be in accordance with Section 609 of the International Swimming Pool and Spa Code.

ISP&SC: Section 609.2.1 Water area less than 7500 square feet
Facilities that have less than 7500 gross square feet of water area available for bather access shall have not less than one water closet for males, one urinal for males, one lavatory for males, one shower for males, two water closets for females, one lavatory for females, and one shower for females.

BATHER LOAD

CHAPTER 1004 - OCCUPANT LOAD

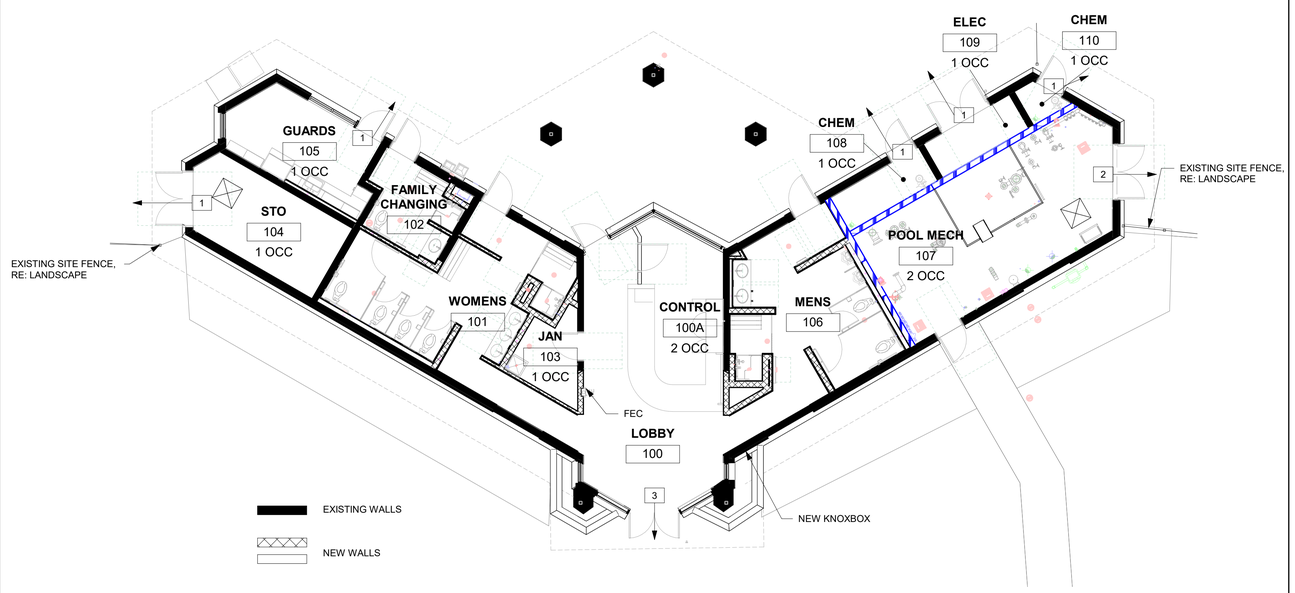
IBC: Table 1004.5 Maximum Floor Area Allowances per Occupant
Skating rinks, swimming pools
Pool = 50 gross
Decks = 15 gross

Pool Deck = 5,325 sf / 15 occ. load factor = 355 occupants
Pool: PL100 lists 368 occupants for both pools combined
Existing Bathhouse: 7 occupants
TOTAL: 730 occupants

Pool Deck Egress shown on A100 - Architectural Site Plan

WALLS

W1061 6" MTL STUD WALL W/ INSULATION 1 HR RATED, UL DESIGN NO. V438, U465 6" METAL STUDS 1/2" RESILIENT FURRING CHANNEL 5/8" TYPE X GYP. BD., BOTH SIDES SOUND BATT INSULATION	W1063 6" MTL STUD FURR WALL 6" METAL STUDS 5/8" GYP. BD. SOUND BATT INSULATION	W1043 3 5/8" MTL STUD FURR WALL 3 5/8" METAL STUDS 5/8" GYP. BD. SOUND BATT INSULATION
W2040 4" MASONRY WALL 4" NOMINAL CMU	W2080 8" MASONRY WALL W2080r 1-HR RATED ASSEMBLY (IBC TABLE 721.1(2) ITEM 3-1.1 8" NOMINAL CMU	**GENERAL WALL TYPE NOTES:** 1. WALL SECTIONS ARE CUT IN PLAN VIEW. 2. ALL CMU TO RECEIVE BLOCK FILLER PRIOR TO PAINTING. -CMU IN WET AREAS TO RECEIVE CEMENTITIOUS BLOCK FILLER PRIOR TO PAINTING. 3. PROVIDE TILE BACKER BOARD AT TOILET ROOMS, SHOWERS, WHERE REQUIRED BY SPECIFICATION IN LIEU OF GYP. BD. 4. SOUND SEAL HEAD, SILL AND ALL PENETRATIONS IN ACOUSTICAL WALLS WITH STC RATINGS OF 45 AND MORE. 5. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL MASONRY & CONCRETE INFORMATION.



1 G011 FIRST FLOOR CODE PLAN
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT

Project Number:	2025.082
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CODE ANALYSIS, LIFE SAFETY PLAN & WALL TYPES

G011

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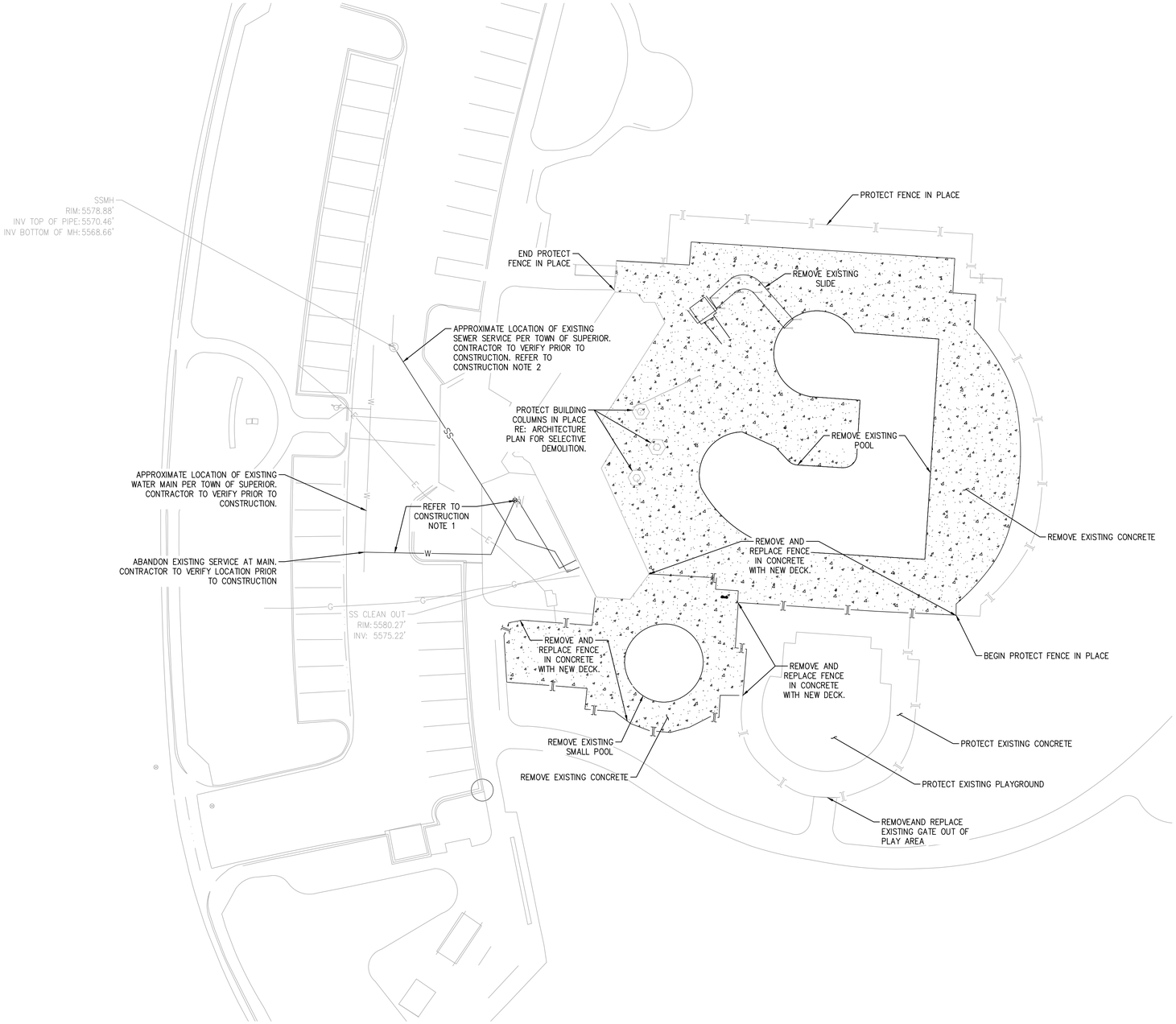

DEMO LEGEND:

- SS — EXISTING SANITARY SEWER
- W — EXISTING WATER
- G — EXISTING GAS
- E — EXISTING ELECTRIC
- EXISTING FENCE
- EXISTING FLOWLINE
- IMPROVEMENTS TO BE REMOVED
- CONCRETE TO BE REMOVED

N

0 20' 40'

SCALE: 1" = 20'

GENERAL NOTES:

1. CONCRETE REMOVAL ADJACENT TO PLAYGROUND AREA TO FALL ON JOINTS
2. NEW CONCRETE TO BE DOWELED INTO EXISTING CONCRETE EXISTING FENCE IN CONCRETE WHERE CONCRETE IS TO BE REMOVED TO BE REMOVED AND RESET IF SALVAGEABLE. COORDINATE WITH OWNER.

CONSTRUCTION NOTES:

1. REMOVE AND ABANDON EXISTING WATER SERVICE LINE AND METER IN ACCORDANCE WITH TOWN OF SUPERIOR STANDARDS
2. REMOVE AND ABANDON EXISTING SANITARY SERVICE LINE IN ACCORDANCE WITH TOWN OF SUPERIOR STANDARDS

Know what's **below** **Call** before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAYBE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BENCHMARK: NGS BENCHMARK DESIGNATION P 453, EL=5508.96' (NAVD88),

STAINLESS STEEL ROD SET IN A 5-INCH (13 CM) PVC WITH LOGO LID, INSCRIBED "P453 2003" AND SURROUNDED BY A CONCRETE COLLAR, 112 FT (34.1 M) EAST FROM THE SOUTH CORNER OF THE SIGN FOR CENTURA HEALTH, AVISTA ADVENTIST HOSPITAL, 65 FT (19.8 M) NORTH FROM THE NORTHWEST END OF THE GUARDRAIL OVER A CONCRETE BOX CULVERT FOR A FARM ACCESS ROAD, 51 FT (15.5 M) NORTHEAST FROM THE NORTHEAST EDGE OF OIL OF NORTHWEST-BOUND US 36, 33 FT (21.0 M) NORTHWEST FROM THE WOOD CORNER POST OF A WOVEN-WIRE FENCE, 3.8 FT (1.2 M) SOUTHWEST FROM THE FENCE, 2.6 FT (0.8 M) SOUTHWEST FROM A GREEN CARSONITE WITNESS POST.

BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE

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TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED MARK E. OBERSCHMIDT 35721 03/27/2026 PROFESSIONAL ENGINEER

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

EXISTING CONDITIONS/DEMOLITION PLAN

C-1

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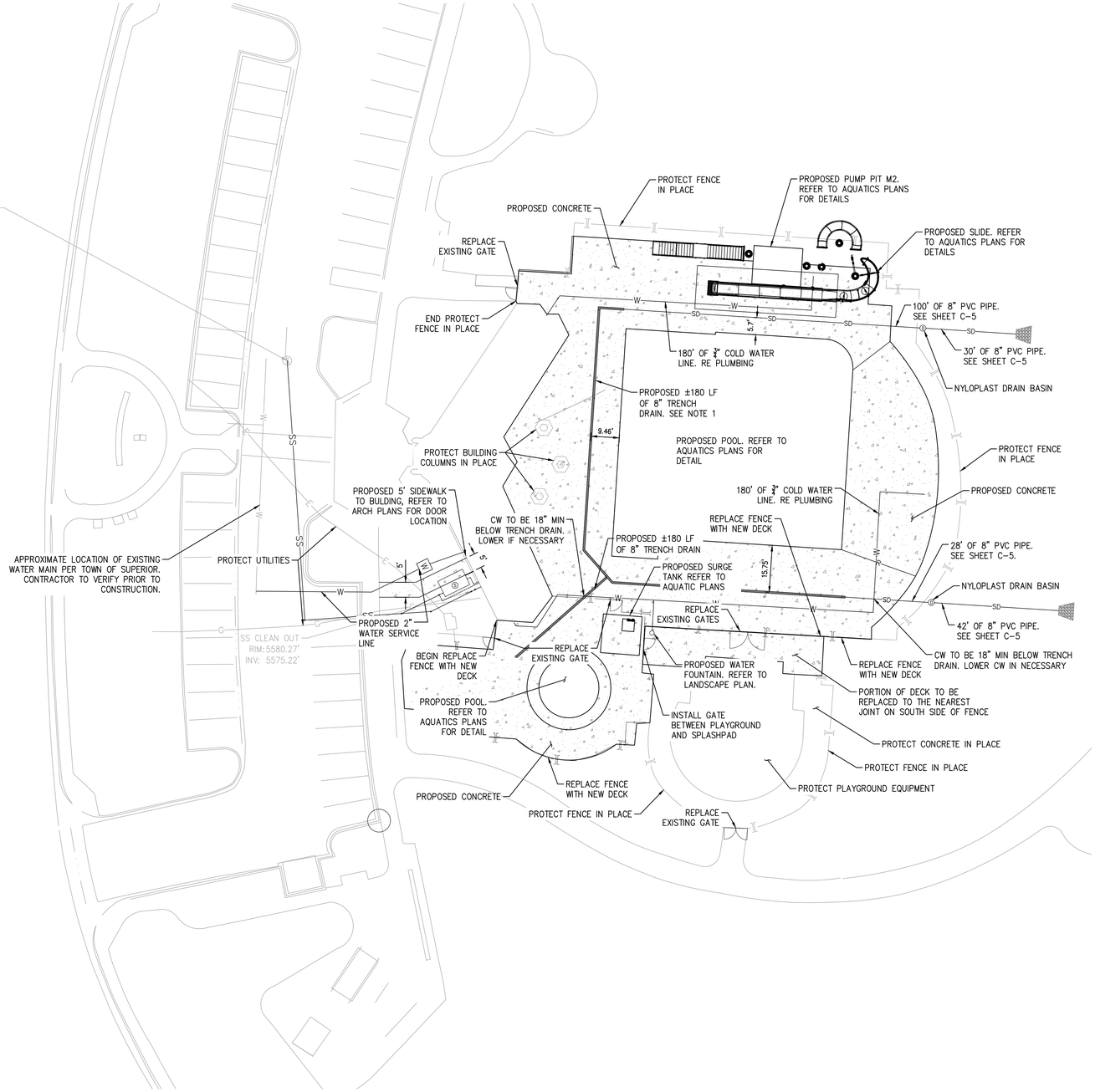

ABBREVIATIONS

BOS	BOTTOM OF STAIRS
BOSS	BOTTOM OF SANITARY SEWER
BW	BOTTOM OF WALL
CF	CURB FACE
EF	EXPOSED FOUNDATION
EG	EXISTING GROUND
ES	EXISTING SURFACE
FF/FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FG	FINISHED GROUND
FS	FINISHED SURFACE
GB	GRADE BREAK
ME	MATCH EXISTING
PL	PROPERTY LINE
RET	RETAINED HEIGHT
R	RIDGE
SW	SIDEWALK
TC	TOP OF CURB
TD	TRENCH DRAIN
TOS	TOP OF STAIRS
TOSD	TOP OF STORM DRAIN
TW	TOP OF WALL

N

0 20' 40'

SCALE: 1" = 20'

SITE LEGEND:

- SS — EXISTING SANITARY SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRIC
- G — EXISTING GAS
- EXISTING FENCE
- PROPOSED FENCE
- R — PROPOSED RIDGE
- SD — PROPOSED STORM PIPE
- LIMIT OF DISTURBANCE
- PROPOSED CONCRETE
- PROPOSED RIPRAP
- D — PROPOSED STORM MANHOLE

CONSTRUCTION NOTES:

1. INSTALL DURA TRENCH DRAIN PER MANUFACTURERS SPECIFICATIONS. SEE GRADING PLAN FOR FG AND INVERT INFORMATION

Know what's **below** **Call** before you dig.

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BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED MARK E. OBERSCHMIDT 35721 03/27/2026 PROFESSIONAL ENGINEER

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

SITE PLAN

C-2

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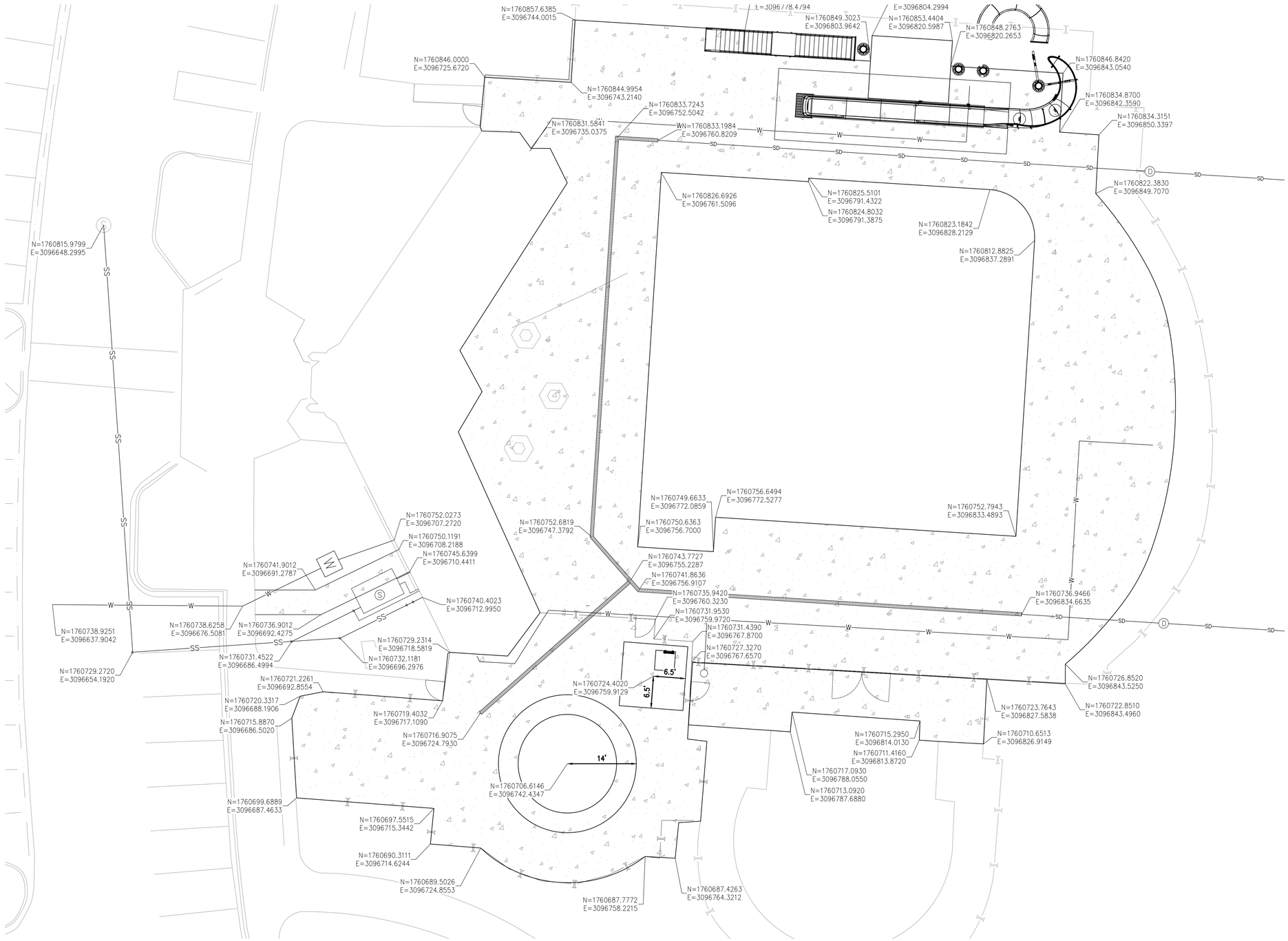

0 10' 20'

SCALE: 1" = 10'

SITE LEGEND:

- SS — EXISTING SANITARY SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRIC
- G — EXISTING GAS
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED RIDGE
- SD — PROPOSED STORM PIPE
- LIMIT OF DISTURBANCE
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- PROPOSED RIPRAP
- (D) — PROPOSED STORM MANHOLE

ABBREVIATIONS

BOS	BOTTOM OF STAIRS
BOSS	BOTTOM OF SANITARY SEWER
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CF	CURB FACE
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FG	FINISHED GROUND
FS	FINISHED SURFACE
GB	GRADE BREAK
ME	MATCH EXISTING
PL	PROPERTY LINE
RET	RETAINED HEIGHT
R	RIDGE
SW	SIDEWALK
TC	TOP OF CURB
TD	TRENCH DRAIN
TOS	TOP OF STAIRS
TOSD	TOP OF STORM DRAIN
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BASIS OF BEARINGS: N/A

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TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED — MARK E. OBERSCHMIDT — 35721 — 03/27/2026 — PROFESSIONAL ENGINEER

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

HORIZONTAL CONTROL PLAN

C-3

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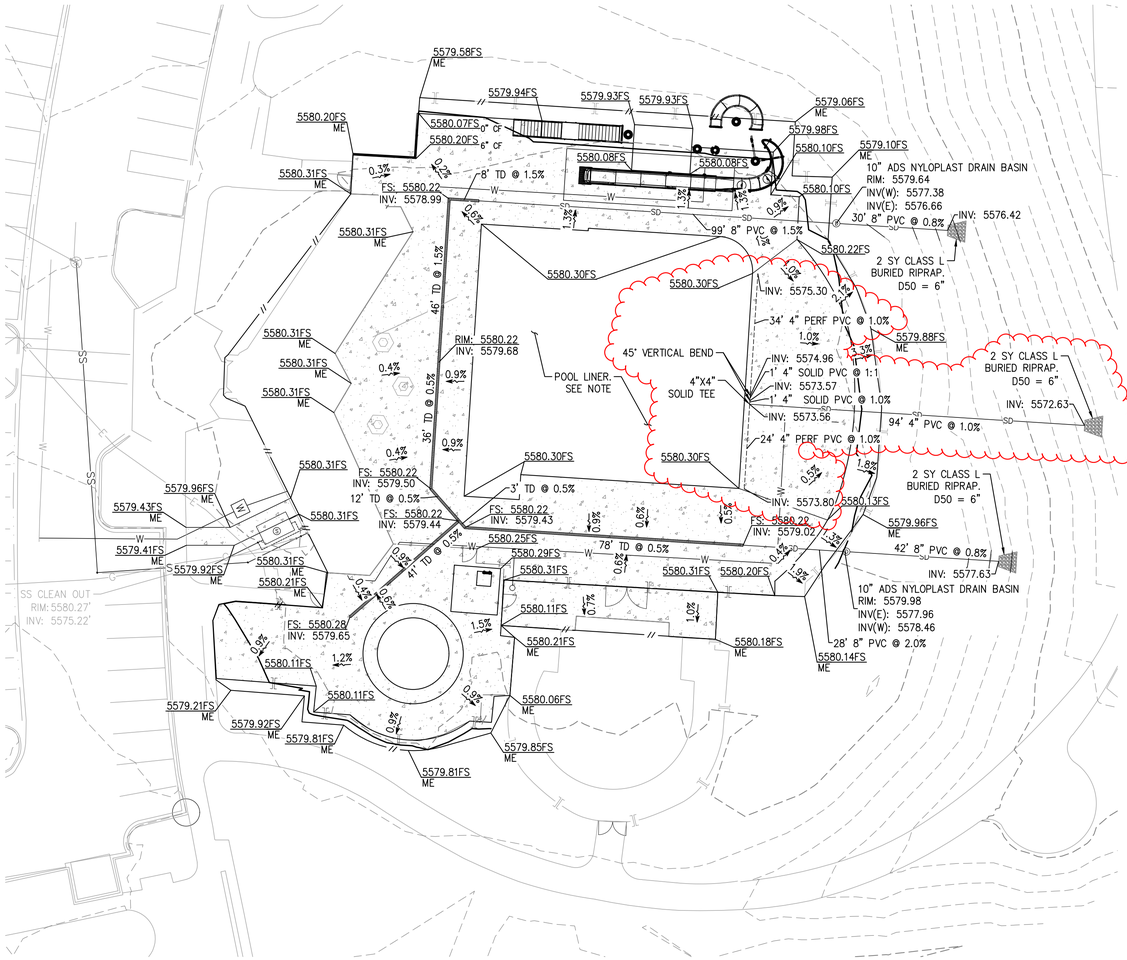
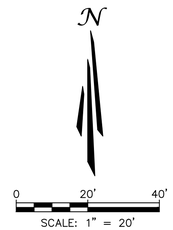


OVERALL GRADING PLAN



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ADA NOTE:

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- CROSS-SLOPE NOT TO EXCEED 2%
- LONGITUDINAL SLOPE NOT TO EXCEED 5%
- LONGITUDINAL RAMP SLOPE NOT TO EXCEED 8.33%
- RAMP LANDINGS NOT TO EXCEED 2% (LANDING PLACEMENT PER RAMP DETAILS).
- PATHWAYS EXCEEDING THESE STANDARDS WILL BE REPLACED AT THE CONTRACTORS EXPENSE

LINER NOTE:

POOL LINER TO FLOW EAST AT A MINIMUM OF 1% TO FOUNDATION DRAIN. REFER TO DETAIL 3 ON SHEET C-8.

ABBREVIATIONS

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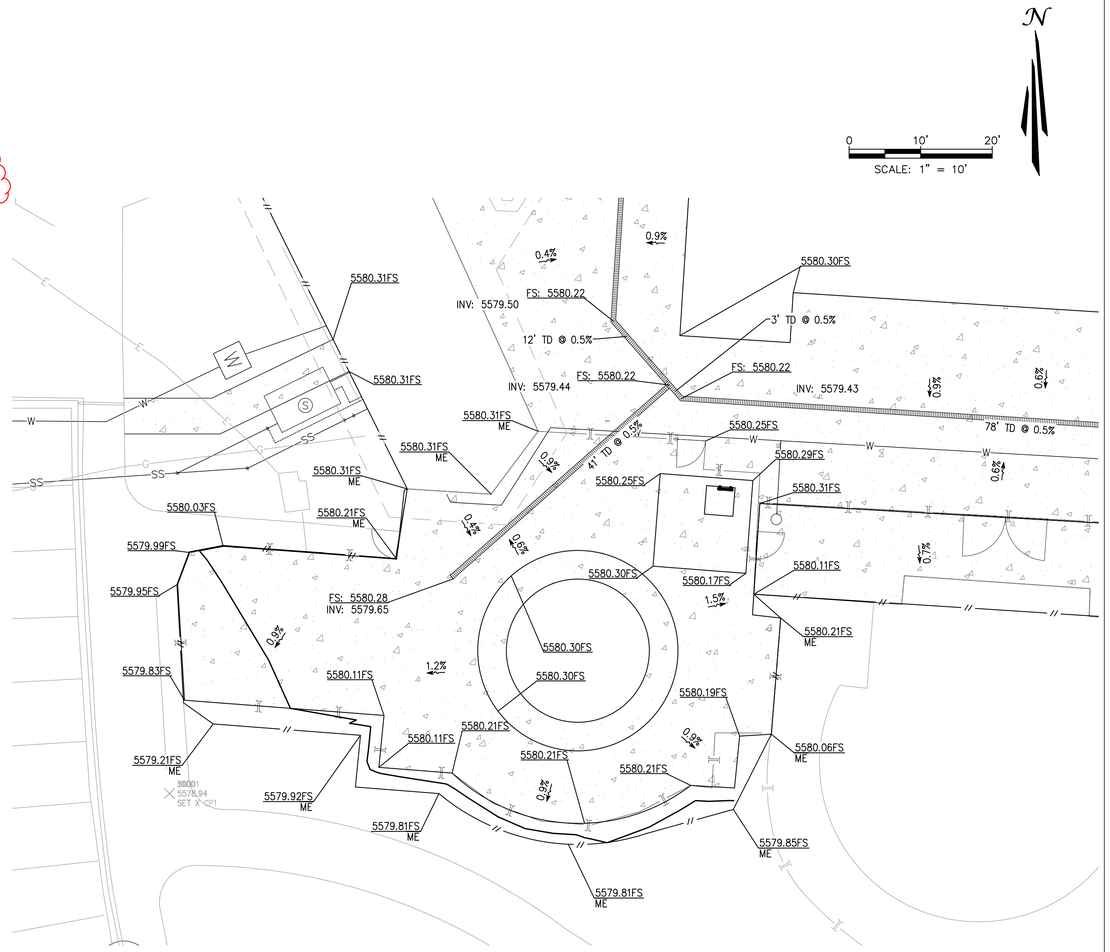

SPLASH PAD DETAILED GRADING PLAN

811 Know what's below Call before you dig.

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BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE

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TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:
Foundation Drain Addition	April 21, 2026

Sheet title:

GRADING AND STORM PLAN

C-4

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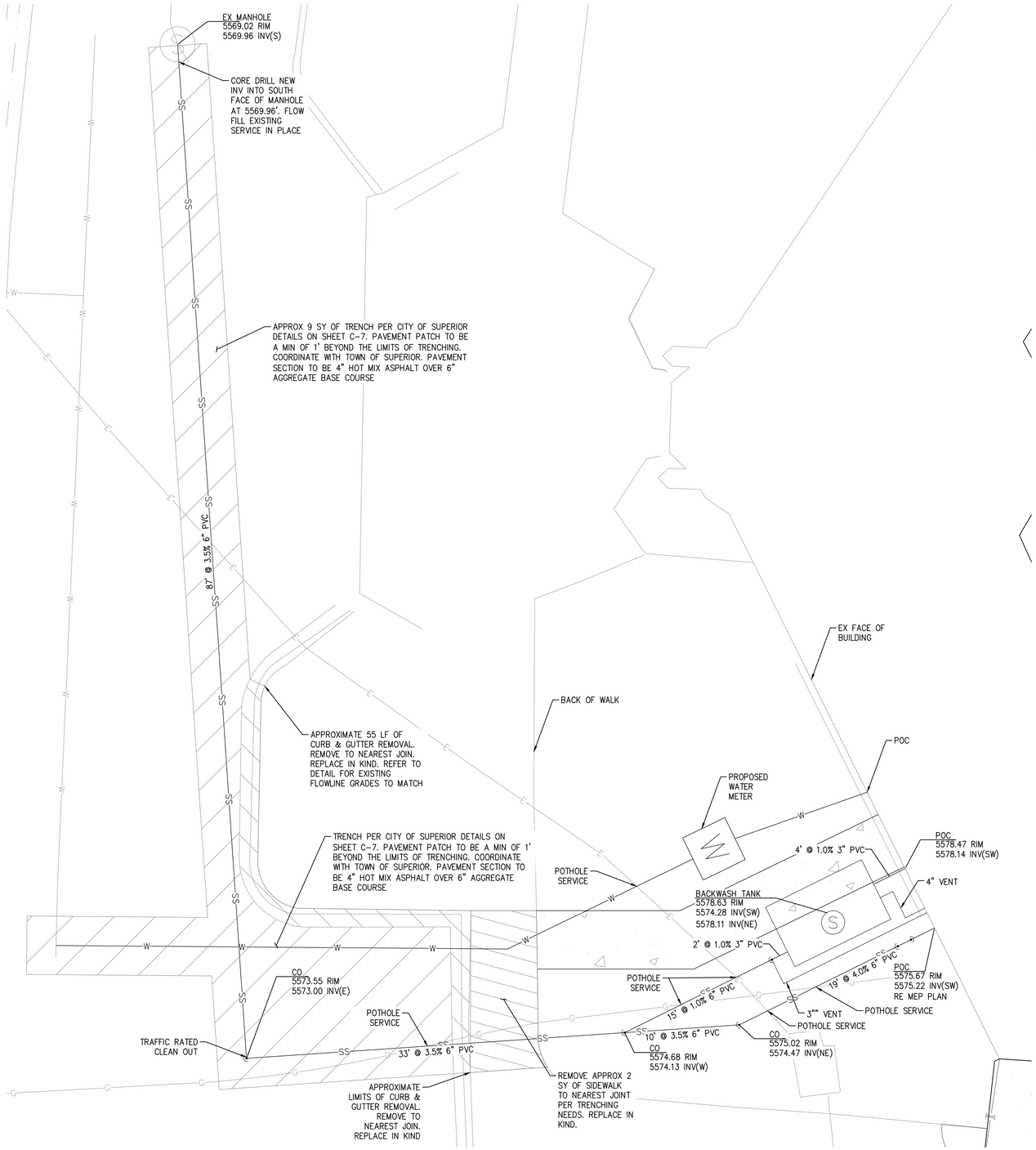

UTILITY PLAN

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TOS	TOP OF STAIRS
TOSD	TOP OF STORM DRAIN
TW	TOP OF WALL

N

0 5' 10'

SCALE: 1" = 5'

UTILITY POTHOLE NOTES:

1. CONTRACTOR TO POTHOLE ALL EXISTING SERVICES CROSSED BY NEW WATER/SEWER SERVICE AND VERIFY NO CONFLICT PRIOR TO SERVICE INSTALLATION.
2. CONTRACTOR TO NOTIFY TOWN AND ENGINEER IF CONFLICT EXISTS



CURB REPLACEMENT PLAN – MATCH EXISTING FL ELEVATIONS

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BASIS OF BEARINGS: N/A

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COLORADO LICENSED
MARK L. OBERSCHMID
35721
03/27/2026
PROFESSIONAL ENGINEER

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Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:

Sheet title:

UTILITY PLAN

C-5

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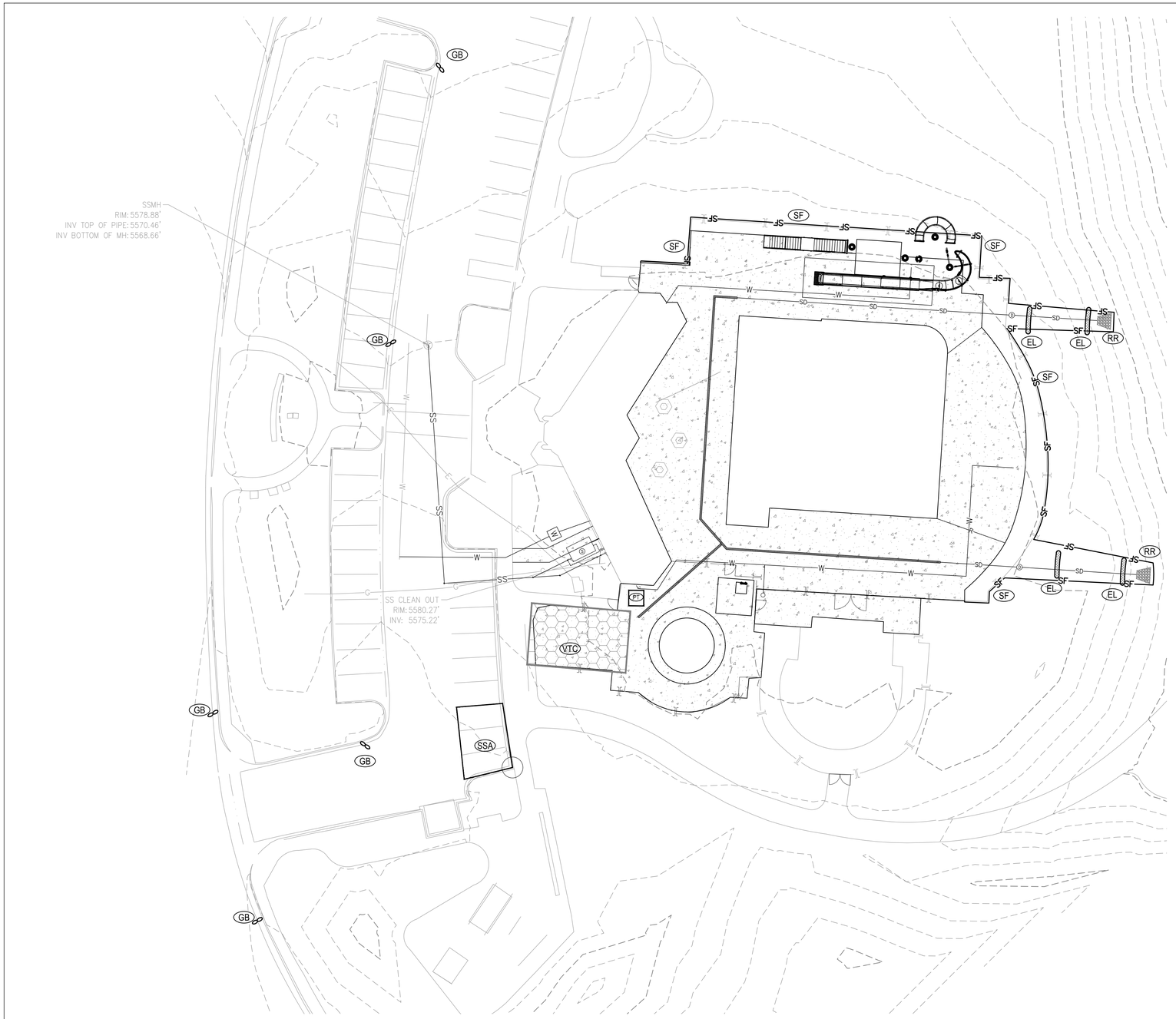

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REFER TO MILE HIGH FLOOD DISTRICT STANDARDS FOR ALL EROSION CONTROL BMPS

TITLE	KEY	SYMBOL
CONCRETE WASHOUT	CW	
PORTABLE TOILET	PT	
VEHICLE TRACKING CONTROL	VTC	
GRAVEL BAG	GB	
STABILIZED STAGING AREA	SSA	
SILT FENCE	SF	SF
EROSION LOG	EL	
RIPRAP	RR	
DRAIN INLET PROTECTION	IP	
SEEDING AND MULCHING	SM	
EROSION CONTROL BLANKET **ON SLOPES EQUAL TO OR GREATER THAN 3:1 AND AS SHOWN HEREON	ECB	

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Revisions:

Description	Date:

Sheet title:

EROSION CONTROL PLAN

C-6

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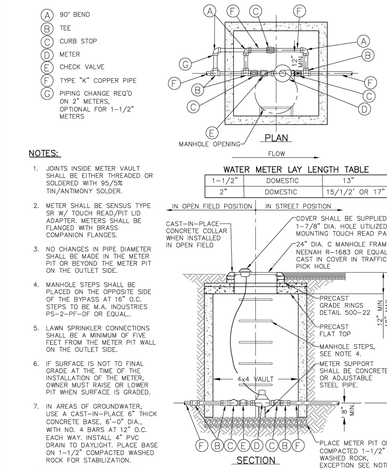


NOTES:

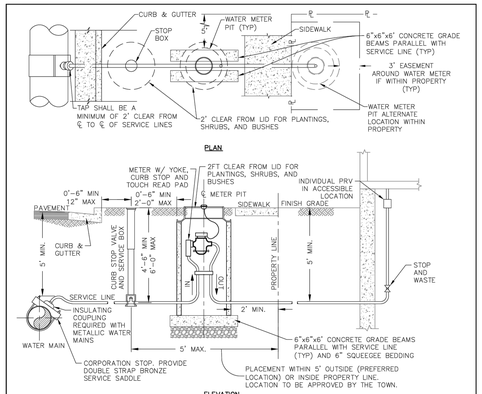
1. JOINTS INSIDE METER VAULT SHALL BE EITHER THREADED OR SOLDERED WITH 95/5% TIN/ANTIMONY SOLDER.
2. METER SHALL BE SENSUS TYPE SR W/ TOUCH READ/PIT LID ADAPTER. METERS SHALL BE FLANGED WITH BRASS COMPANION FLANGES.
3. NO CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR BEYOND THE METER PIT ON THE OUTLET SIDE.
4. MANHOLE STEPS SHALL BE PLACED ON THE OPPOSITE SIDE OF THE BYPASS AT 16" O.C. STEPS TO BE M.A. INDUSTRIES PS-2-PF-OF OR EQUAL.
5. LAWN SPRINKLER CONNECTIONS SHALL BE A MINIMUM OF FIVE FEET FROM THE METER PIT WALL ON THE OUTLET SIDE.
6. IF SURFACE IS NOT TO FINAL GRADE AT THE TIME OF THE INSTALLATION OF THE METER, OWNER MUST RAISE OR LOWER PIT WHEN SURFACE IS GRADED.
7. IN AREAS OF GROUNDWATER, USE A CAST-IN-PLACE 6" THICK CONCRETE BASE, 6'-0" DIA., WITH NO. 4 BARS AT 12" O.C. EACH WAY. INSTALL 4" PVC DRAIN TO DAYLIGHT. PLACE BASE ON 1-1/2" COMPACTED WASHED ROCK FOR STABILIZATION.
8. VAULT SHALL BE PLUMB AND CENTERED.

THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

Town of Superior — Gateway to Boulder Valley®

1-1/2" AND 2" DOMESTIC METER SETS

DATE: JANUARY 2019 | SHEET 400-10



NOTES:

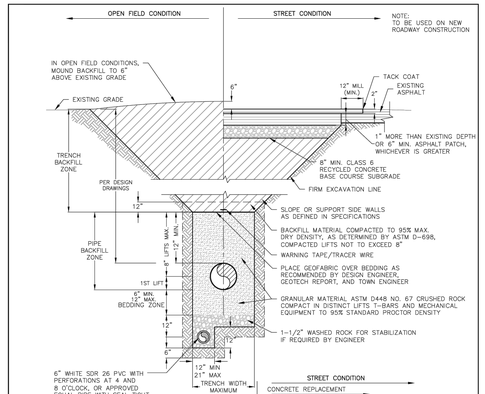
1. SERVICE LINE TO BE TYPE "K" COPPER.
2. SERVICE LINE AND METER PIT TO BE INSPECTED BY THE TOWN.
3. INSTALL INDIVIDUAL PRESSURE REDUCING VALVE (PRV) UNLESS SPECIFICALLY NOT REQUIRED BY THE ENGINEER. ALTERNATE LOCATION FOR PRV IN METER PIT.
4. CORP STOP TO BE MUELLER H-15000 OR FORD F-600, OR APPROVED TOWN EQUAL.
5. NO BENDS, FITTINGS, CONNECTIONS, OR CHANGES IN PIPE SIZE FROM THE WATER MAIN TO 5' PAST THE OUTSIDE WALL OF THE METER PIT ON THE CUSTOMER SIDE. SERVICE LINE MAY BE INCREASED ONE PIE SIZE AFTER THIS POINT.
6. SEE TOWN OF SUPERIOR STANDARDS AND SPECIFICATIONS SECTION 343.00 FOR BEDDING.

THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

Town of Superior — Gateway to Boulder Valley®

TYPICAL POTABLE WATER SERVICE DETAIL

DATE: JANUARY 2019 | SHEET 400-8



PIPE DIAMETER (INCHES)	MAXIMUM TRENCH WIDTH (INCHES)
4	22
6	24
8	26
10	28
12	30
15	36
18	40
21	44
24	48
27	52
30	56
33	60
36	68

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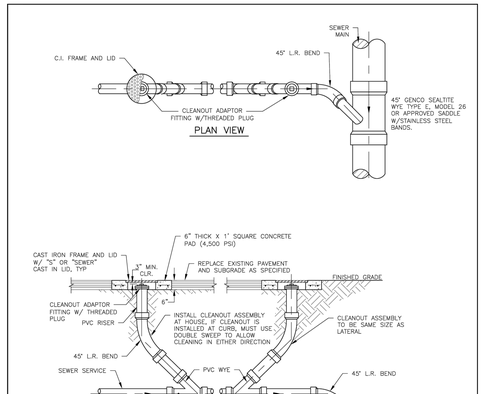
Town of Superior — Gateway to Boulder Valley®

TYPICAL SANITARY SEWER TRENCH PIPE BEDDING

DATE: AUGUST 2019 | SHEET 500-8



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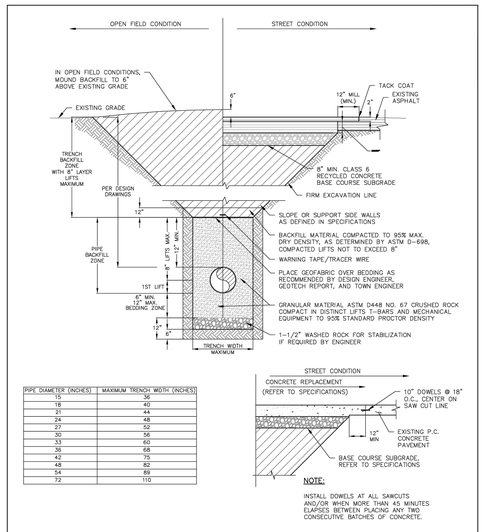
Town of Superior — Gateway to Boulder Valley®

STANDARD CLEAN-OUT SERVICE LINE DETAIL

DATE: MAY 2023 | SHEET 500-10



PIPE DIAMETER (INCHES)	MAXIMUM TRENCH WIDTH (INCHES)
15	36
18	40
21	44
24	48
27	52
30	56
33	60
36	68
42	75
48	82
54	89
72	110

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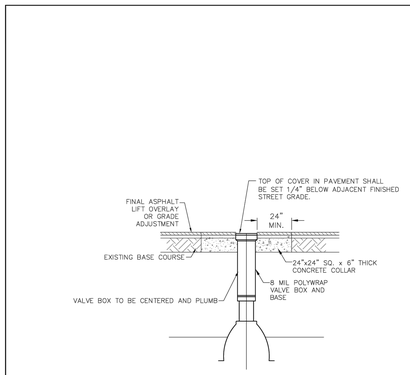
Town of Superior — Gateway to Boulder Valley®

STORM SEWER TYPICAL PIPE BEDDING

DATE: JANUARY 2019 | SHEET 600-8



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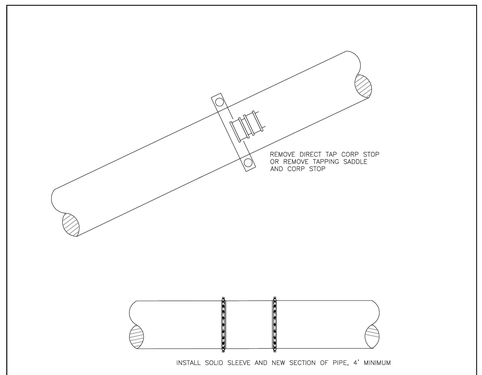
Town of Superior — Gateway to Boulder Valley®

VALVE BOX ADJUSTMENT

DATE: JANUARY 2019 | SHEET 400-6



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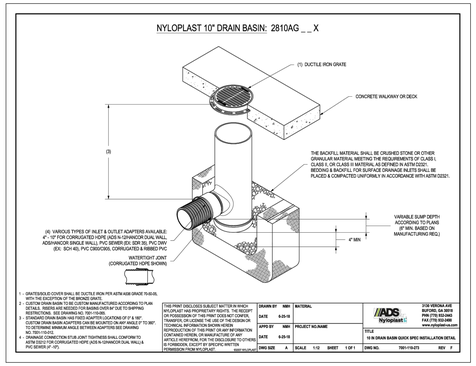
Town of Superior — Gateway to Boulder Valley®

ABANDONMENT OF WATER SERVICE TAPS

DATE: JANUARY 2019 | SHEET 400-33



811 Know what's below Call before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAYBE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BENCHMARK: NGS BENCHMARK DESIGNATION P 453, EL=5508.96' (NAVD88),

STAINLESS STEEL ROD SET IN A 5-INCH (13 CM) PVC WITH LOGO LID, INSCRIBED---P453 2003--AND SURROUNDED BY A CONCRETE COLLAR, 112 FT (34.1 M) EAST FROM THE SOUTH CORNER OF THE SIGN FOR CENTURA 'HEALTH, AVISTA ADVENTIST HOSPITAL, 65 FT (19.8 M) NORTH FROM THE NORTHWEST END OF THE GUARDRAIL OVER A CONCRETE BOX CULVERT FOR A FARM ACCESS ROAD, 51 FT (15.5 M) NORTHEAST FROM THE NORTHEAST EDGE OF OIL OF NORTHWEST-BOUND US 36, 33 FT (21.0 M) NORTHWEST FROM THE WOOD CORNER POST OF A WOVEN-WIRE FENCE, 3.8 FT (1.2 M) SOUTHWEST FROM THE FENCE, 2.6 FT (0.8 M) SOUTHWEST FROM A GREEN CARSONITE WITNESS POST.

BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE
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TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED WAYNE E. OBERSCHMIDT 35721 03/27/2026 PROFESSIONAL ENGINEER

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

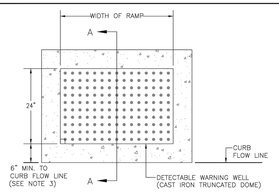
Description	Date:

Sheet title:

UTILITY DETAILS

C-7

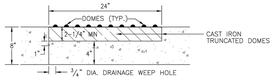
© 2025 Barker Rinker Seacat Architecture



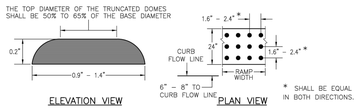
PLAN VIEW OF
DETECTABLE WARNING AND WELL

NOTES:

1. THE CAST IRON TRUNCATED DOMES SHALL BE INSTALLED AT SIDEWALK/STREET TRANSITIONS. THEY SHALL BE CAST IRON TRUNCATED DOME SURFACE. THE DOMES SHALL BE PLACED IN A SQUARE GRID.
2. THE TOP OF THE DRAINAGE WEEP HOLE SHALL BE LOCATED AT THE LOWEST POINT OF THE CAST IRON TRUNCATED DOMES WELL.
3. ALL CAST IRON TRUNCATED DOME AREAS SHALL START A MINIMUM OF 6 INCHES FROM THE FLOW LINE OF THE CURB AND NOT BE MORE THAN A MAXIMUM OF 8 INCHES FROM ANY POINT ON THE FLOW LINE OF THE CURB. ALL DETECTABLE WARNING AREAS SHALL BE 24 INCHES IN LENGTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY. THE DETECTABLE WARNING AREA SHALL BE INCLUDED
4. CONCRETE TO BE CDOT CLASS B/D 4,500 PSI



SECTION A–A



ELEVATION VIEW PLAN VIEW

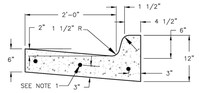
* SHALL BE EQUAL IN BOTH DIRECTIONS.

DOME AND DETECTABLE WARNING DETAILS

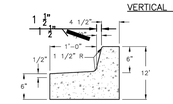
THESE DETAILS ARE PROVIDED FOR STANDARDIZATION PURPOSES ONLY. THIS DETAIL REPRESENTS MINIMUM DESIGN STANDARDS WHICH MAY REQUIRE UPGRADING FOR SPECIFIC APPLICATIONS. N.T.S.

Town of Superior — Gateway to Boulder Valley®

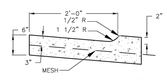
CAST IRON TRUNCATED DOME	
DATE: JANUARY 2019	SHEET 800–14



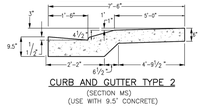
VERTICAL CURB & GUTTER



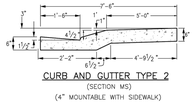
MEDIAN CURB & GUTTER



TYPICAL CURB & GUTTER AT DRIVEWAY



CURB AND GUTTER TYPE 2
(SECTION MS)
(USE WITH 9.5" CONCRETE)



CURB AND GUTTER TYPE 2
(SECTION MS)
(4" MOUNTABLE WITH SIDEWALK)

NOTES:

1. NO. 5 EPOXY COATED REBAR SHALL BE USED IN ALL CURB RETURNS WITH 25' OR LARGER RADII. THE REBAR SHALL BE USED FROM BEGINNING TO END OF THE CURB RETURN AND BE FULLY SUPPORTED WITH STEEL CHAIRS.
2. SUBGRADE UNDER CURB, GUTTER AND SIDEWALK TO BE COMPACTED TO 95% ASHTO T–180.
3. ALL ATTACHED SIDEWALK SHALL BE PLACED MONOLITHIC WITH THE CURB AND GUTTER.
4. CONCRETE TO BE CDOT B/D 4,500 PSI STRENGTH
5. REMOVE AND REPLACE SECTIONS OF CURB AND GUTTER/SIDEWALK SHALL BE REMOVED FROM CONTROL JOINT TO CONTROL JOINT. #5 X 24 INCH EPOXY COATED REBAR DOWELS SHALL BE DRILLED AND EPOXIED 12 INCHES INTO EXISTING CONCERT, MINIMUM 3 LOCATIONS

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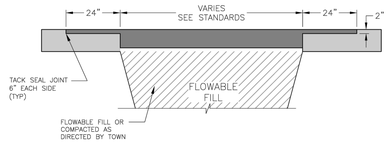
Town of Superior — Gateway to Boulder Valley®

CURB, GUTTER, AND WALK	
DATE: JANUARY 2019	SHEET 800–1

STREET CLASSIFICATION	MINIMUM ASPHALT PATCH THICKNESS			
	ZONING			
	INDUSTRIAL		ALL OTHER	
	THICKNESS	LIFTS	THICKNESS	LIFTS
ARTERIAL	11"	3	11"	3
COLLECTOR	7"	2	7"	2
LOCAL	6"	2	6"	2

Asphalt Patch

HMA OVER CDOT FLOW FILL, OR FOAMED FLASH FILL WITH 2" MILL AND OVERLAY 2' WIDER THAN FULL DEPTH PATCH ON BOTH SIDES



NOTES:

1. PATCHBACK IS TO BE USED ON EXISTING ROADWAYS.
2. CDOT FLOW FILL, OR FOAM FLASH FILL FOR TRENCH BACKFILL.
3. PAVEMENT CUTS WILL NOT BE ALLOWED WITHOUT TOWN ENGINEER APPROVAL WITHIN SEVEN (7) YEARS AFTER A STREET HAS BEEN CONSTRUCTED, RECONSTRUCTED, OR OVERLAID. EMERGENCY REPAIRS ARE EXEMPT.
4. SEE ALSO STANDARD STREET SECTION DETAIL.

   MAXIMUM LIFT DEPTH – 5"
   MINIMUM LIFT DEPTH – 2"

   THICKNESS OF EACH LIFT BELOW THE TOP SHALL NOT VARY MORE THAN 3/8", TOP LIFT SHALL BE GRADE SX HOT BITUMINOUS PAVEMENT.
   FINISH SURFACE TOLERANCE SHALL NOT EXCEED 3/16" IN ANY DIRECTION WHEN CHECKED WITH 10 FOOT STRAIGHT EDGE. FINISHED SURFACE SHALL BE RAKED FREE OF AGGREGATE PRIOR TO COMPACTION EQUIPMENT BEING USED

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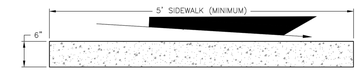
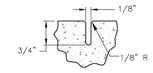
Town of Superior — Gateway to Boulder Valley®

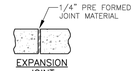
TRENCH PATCHBACK DETAIL	
DATE: JANUARY 2019	SHEET 500–11a



STANDARD DETACHED/ATTACHED WALK



CONTRACTION OR WEAKENED PLANE JOINT (EVERY 10 FEET)



EXPANSION JOINT (EVERY 100 FEET)

NOTES:

1. CONCRETE TO BE CDOT CLASS B/D 4,500 PSI STRENGTH.
2. CONCRETE TO HAVE LIGHT BROOM FINISH.
3. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%

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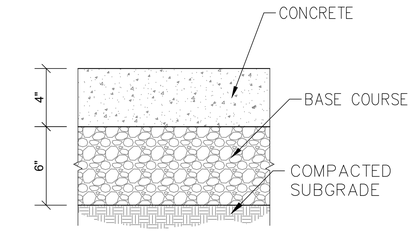
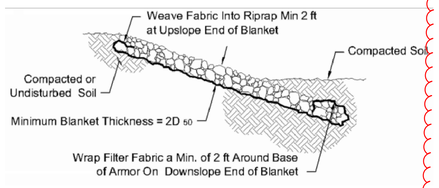
Town of Superior — Gateway to Boulder Valley®

SIDEWALK DETAILS	
DATE: JANUARY 2019	SHEET 800–6

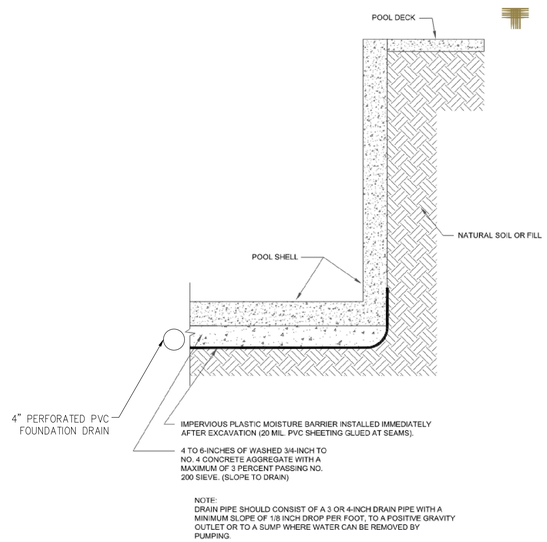


1 CONCRETE DECK
SCALE: NTS



- RIPRAP SHALL CONFORM TO AKDOT&PF STANDARD SPECIFICATIONS SECTIONS 703 AND 180 AND SHALL BE CLASS II UNLESS OTHERWISE NOTED.
- PLACE RIPRAP TO A MINIMUM THICKNESS OF 18 INCHES MEASURED PERPENDICULAR TO SLOPE (DIMENSIONS PER PLAN).
- INSTALL NON-WOVEN GEOTEXTILE FILTER FABRIC BENEATH ALL RIPRAP. KEY RIPRAP A MINIMUM OF 12 INCHES INTO TOE OF SLOPE.
- VERIFY SUBGRADE IS STABLE PRIOR TO PLACEMENT.

2 RIP RAP
SCALE: NTS



3 FOUNDATION DRAIN
SCALE: NTS

Know what's **below** **Call** before you dig.

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BASIS OF BEARINGS: N/A

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

TAIT & ASSOCIATES Since 1964

Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	CW
Checked By:	MEO

Revisions:

Description	Date:
Foundation Drain Addition	April 21, 2026

Sheet title:

SITE DETAILS

C-8

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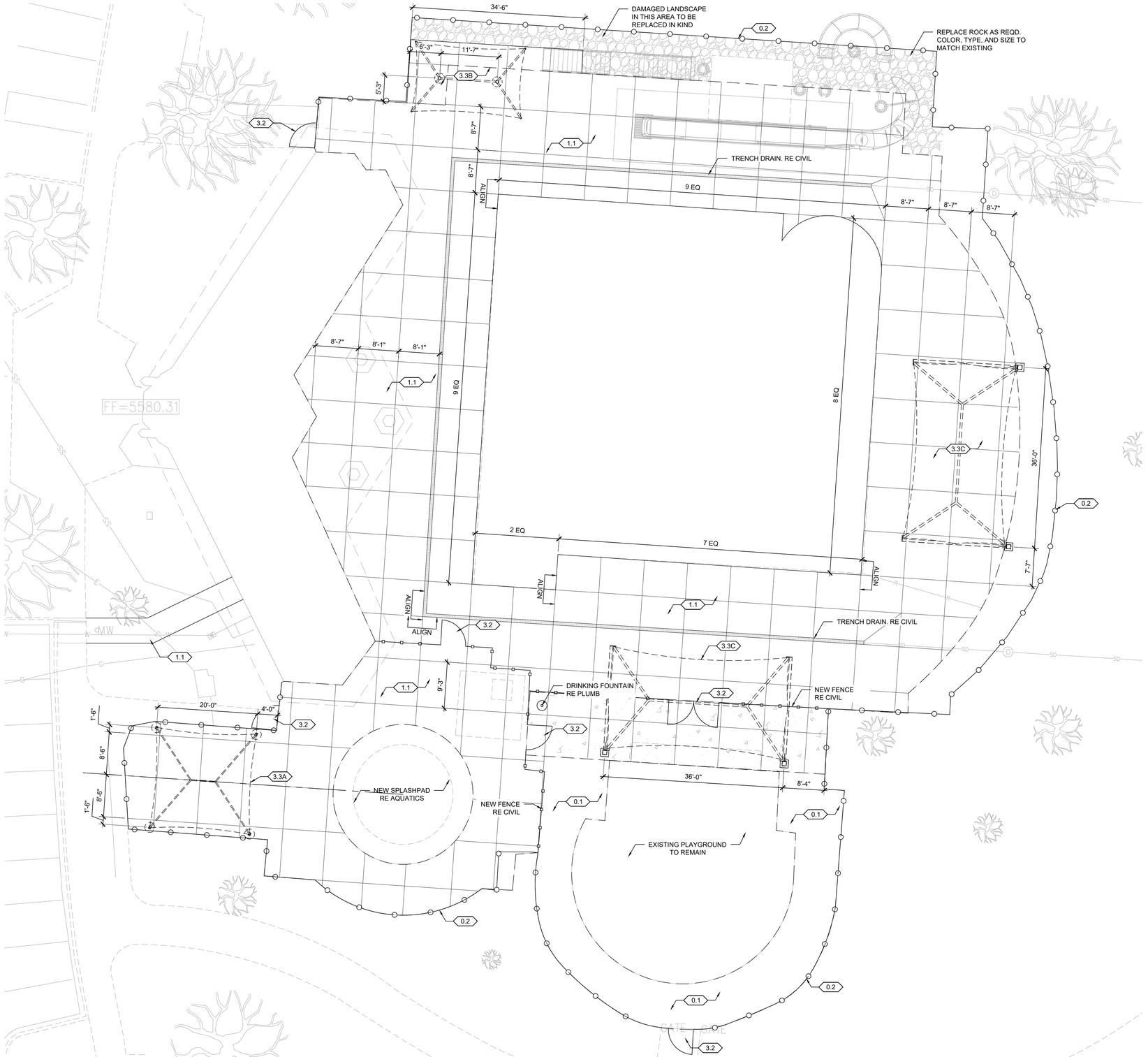

MATERIAL KEYNOTES

0.0	**EXISTING CONDITIONS**	
0.1	EXISTING PVMT TO REMAIN PROTECT	
0.2	EXISTING FENCE TO REMAIN/PROTECT	
1.0	**PAVING**	
1.1	CONCRETE PAVING	DTL 1/L300
2.0	**JOINTING**	
2.1	SAWN CONTROL JT	
3.0	**SITE ELEMENTS**	
3.1	METAL FENCE (MATCH EXISTING)	DTL 2/L300
3.2	POOL GATE	DTL 2/L300
3.3	SHADE STRUCTURE	DTL3A,B,C/L300

MATERIALS LEGEND

CIP CONC PAVING W/ INTEGRAL COLOR AND SAWN JTS. DAVIS COLOR SAN DIEGO BUFF

1 LAYOUT & MATERIALS PLAN ENLARGEMENT

0' 5' 10' 20'

BARKER RINKER SEACAT ARCHITECTURE

brsarch.com

CHRIS M SUTTERFIELD 457 03/07/2008 Original Date of Licensure STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

Superior South Pool

3300 Huron Peak Avenue
Superior, Colorado 80027

Project Number:	2025.082
Issue:	100% CD
Date:	March 27, 2026
Drawn By:	CH
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LAYOUT PLAN

L200

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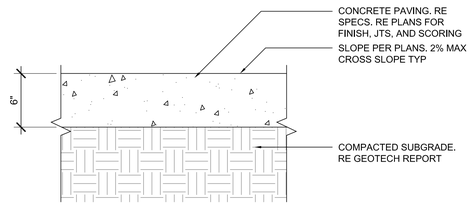
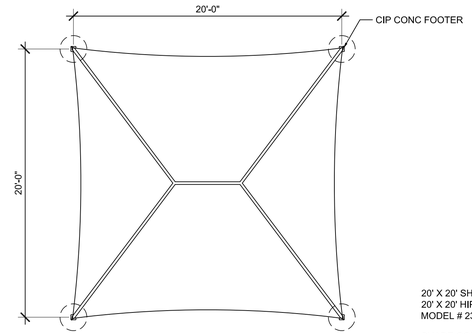


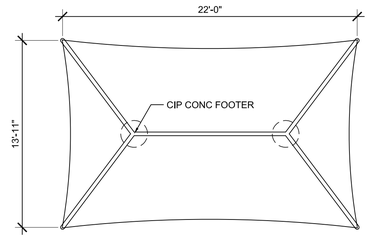
1 L300 CONCRETE PAVING SCALE: 1 1/2" = 1'-0"



20' X 20' SHADE STRUCTURE BY SKYWAYS
20' X 20' HIP W/ 10' ENTRANCE
MODEL # 237666

SHADE COLOR: NATURAL
POLE COLOR: DUNE

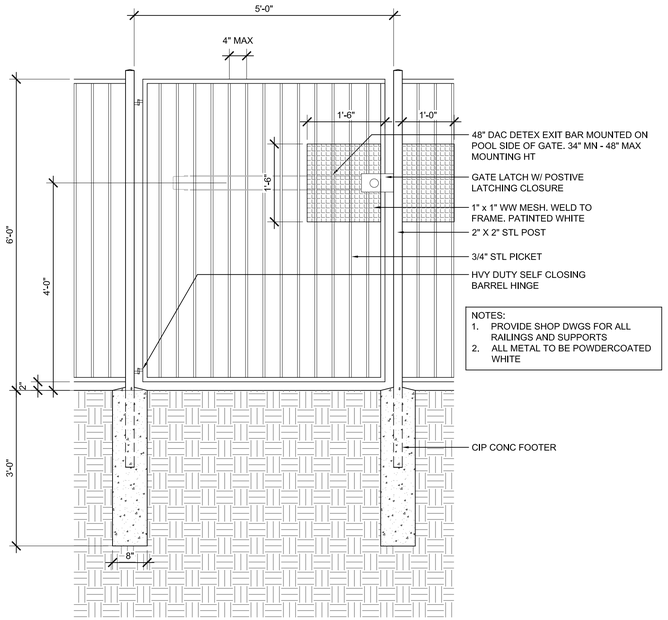
3A L300 POOL SHADE STRUCTURE SCALE: 3/16" = 1'-0"



14' X 22' SHADE STRUCTURE BY SKYWAYS
TWO POST HIP W/ 10' ENTRANCE
MODEL # 237676

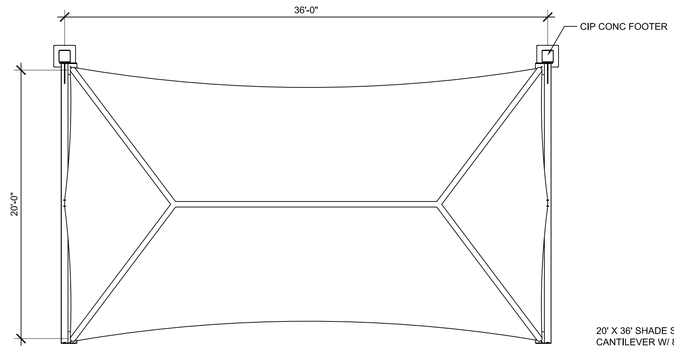
SHADE COLOR: NATURAL
POLE COLOR: DUNE

3B L300 POOL SHADE STRUCTURE SCALE: 3/16" = 1'-0"



NOTES:
1. PROVIDE SHOP DWGS FOR ALL RAILINGS AND SUPPORTS
2. ALL METAL TO BE POWDERCOATED WHITE

2 L300 POOL GATE SCALE: 3/4" = 1'-0"



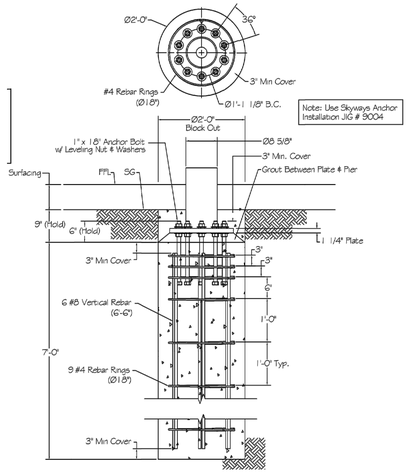
20' X 36' SHADE STRUCTURE BY SKYWAYS
CANTILEVER W/ 8' ENTRANCE
MODEL # 216042

SHADE COLOR: NATURAL
POLE COLOR: DUNE

3C L300 POOL SHADE STRUCTURE SCALE: 3/16" = 1'-0"

FOOTING DESIGN
FOOTING DESIGN IS FOR BIDDING PURPOSES ONLY. FINAL FOOTING DESIGN TO BE PROVIDED BY SHADE STRUCTURE MANUFACTURER DURING THE SHOP DRAWING PROCESS. PRICING ADJUSTMENTS WILL BE MADE USING THE UNIT PRICE FOR CAST IN PLACE CONCRETE.

PERMITS
THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL REQUIRED BUILDING PERMITS FROM THE TOWN OF SUPERIOR. SHOP DRAWING SUBMITTAL SHALL INCLUDE MANUFACTURER'S ENGINEERED SHOP DRAWINGS. DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF COLORADO.



4 L300 TYP SHADE STRUCTURE FOOTER SCALE: NTS

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CHRIS M SUTTERFIELD 457 03/07/2008 Original Date of Licensure STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

Superior South Pool

3300 Huron Peak Avenue
Superior, Colorado 80027

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DETAILS

L300

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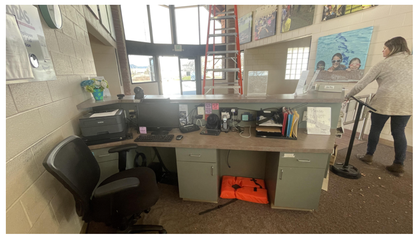


EXISTING CONTROL DESK, CASEWORK & GATE TO BE DEMOLISHED



EXISTING LOCKERS, TILE BENCH & SHELVING TO BE DEMOLISHED



EXISTING SHOWERS & ACCESSORIES TO BE DEMOLISHED

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH ANY PHASING REQUIRED TO COMPLETE THE WORK.

2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY PARTITIONS AND TEMPORARY DOORS AS DEEMED NECESSARY BY THE ARCHITECT, ENGINEER AND OWNER. THEY SHALL BE WELL MAINTAINED AND ANY DAMAGE REPAIRED IMMEDIATELY TO AVOID MIGRATION OF DUST INTO ADJOINING AREAS.

3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK IN OCCUPIED SPACES. DEMOLITION WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE DISRUPTIONS TO OCCUPANTS AND SPACES TO REMAIN OCCUPIED. PROTECT EXISTING FLOOR FINISHES FROM CONSTRUCTION TRAFFIC THROUGH OCCUPIED AREAS.

4. ALL DEMOLITION SHALL BE MADE CLEAN AND COMPLETE AND IN A MANNER SUITABLE TO ACCEPT NEW FINISHES AND/OR SURFACES.

5. THE CONTRACTOR SHALL COVER AND PROTECT OWNER'S EQUIPMENT WHICH CANNOT BE REMOVED FROM THE PROJECT AREA.

6. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. THE CONTRACTOR SHALL DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER FOR FUTURE USE. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, THE CONTRACTOR SHALL PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND SURFACES.

7. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION ACCORDING TO EACH TRADE.

8. DEMOLITION FOR BUILDING SERVICES AND UTILITIES SHALL BE PERFORMED BY THE TRADE RESPONSIBLE FOR THAT UTILITY. OPENINGS FOR DEMOLISHED UTILITIES SHALL BE INFILLED BY TRADE RESPONSIBLE FOR PIPING, DUCT OR CONDUIT DEMOLITION. OPENINGS THROUGH FIRE-RATED CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION OR BE FIRESTOPPED.

9. WHERE EXTERIOR WALLS, DOORS AND/OR WINDOWS ARE TO BE REMOVED OR MODIFIED, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT THE EXISTING BUILDING REMAINS WEATHER-TIGHT AND WITHOUT DRAFTS.

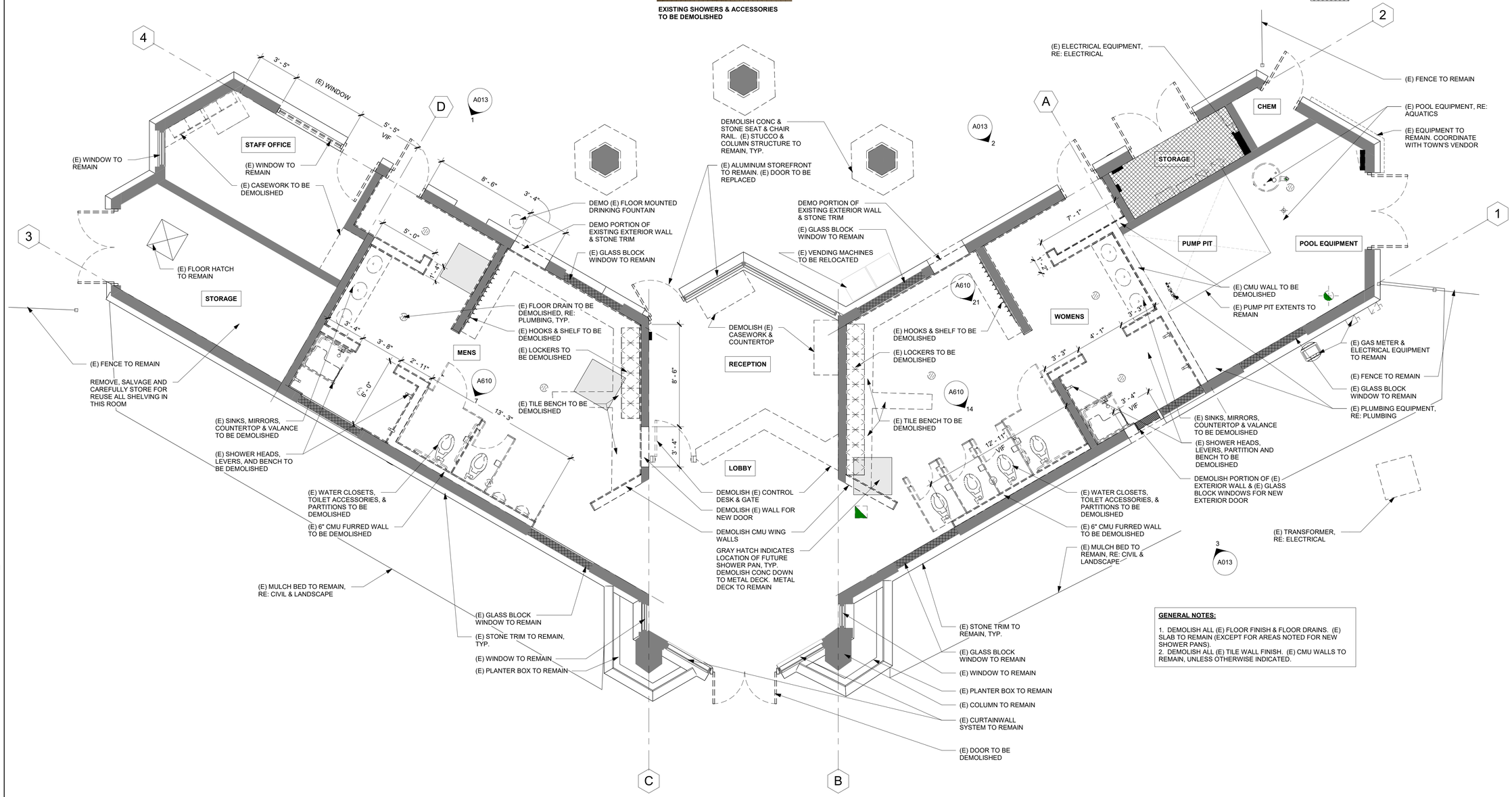
10. REMOVE EXISTING FLOOR AND BASE MATERIALS IN ALL AREAS SCHEDULED TO RECEIVE NEW FLOOR AND BASE. REFER TO FINISH DRAWINGS OR SCHEDULES. ALL FLOOR DEMOLITION TO REFER TO 'GENERAL DEMOLITION NOTE #4'.

11. CONTRACTOR SHALL VERIFY WITH OWNER REGARDING ANY SITE EQUIPMENT, TREES, SHRUBS, OR VEGETATION TO BE SALVAGED BEFORE ANY SITEWORK COMMENCES.

12. FOR ALL DOORS SHOWN TO BE REMOVED, THE DOOR, FRAMES, THRESHOLDS AND HARDWARE ARE TO BE DEMOLISHED.

DEMOLITION PLAN LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE REMOVED
- EXISTING DOOR & FRAME TO BE REMOVED
- PORTION OF (E) CONC TO BE DEMOLISHED DOWN TO (E) METAL DECK. (E) METAL DECK TO REMAIN, RE: STRUCTURAL
- PORTION OF (E) FLOOR TO BE DEMOLISHED, BOTH CONC & METAL DECK. RE: STRUCTURAL



GENERAL NOTES:

1. DEMOLISH ALL (E) FLOOR FINISH & FLOOR DRAINS. (E) SLAB TO REMAIN (EXCEPT FOR AREAS NOTED FOR NEW SHOWER PANS).
2. DEMOLISH ALL (E) TILE WALL FINISH. (E) CMU WALLS TO REMAIN, UNLESS OTHERWISE INDICATED.

1 / A011 FIRST FLOOR DEMO PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

BARKER RINKER SEACAT ARCHITECTURE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
3/23/26
LICENSED ARCHITECT

Project Number:	2025.082
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DEMOLITION PLANS

A011

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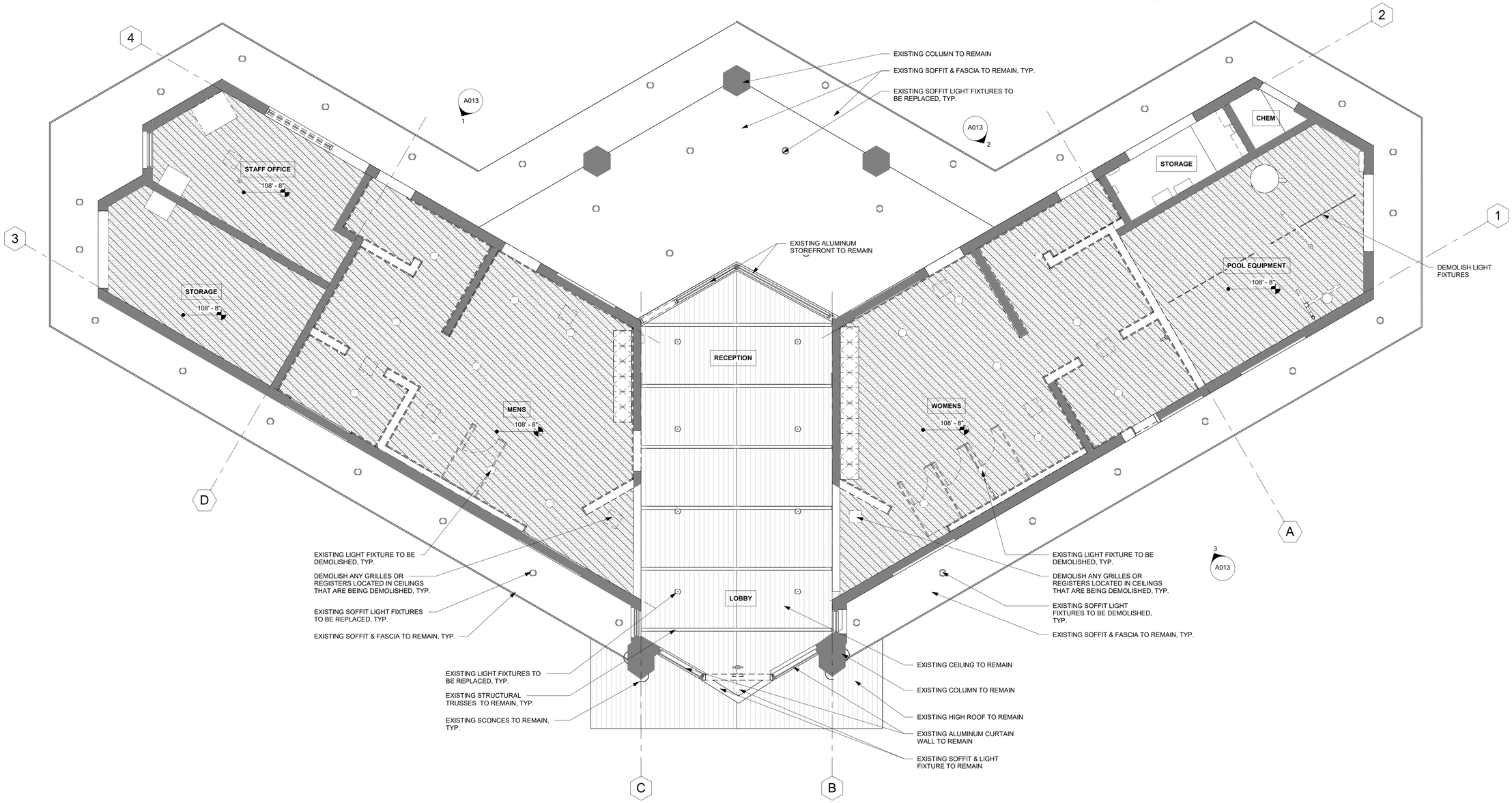
EXISTING LOBBY CEILING TO REMAIN, LIGHTS TO BE REPLACED

DEMOLITION RCP LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE DEMOLISHED
- (E) GYP BOARD CEILING TO BE DEMOLISHED
- (E) EXTERIOR SOFFIT TO REMAIN



1 A012 FIRST FLOOR RCP DEMO

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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KEITH HAYES
203023
LICENSED ARCHITECT
3/23/26

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DEMOLITION RCPS

A012

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EXISTING STOREFRONT WINDOW TO REMAIN. EXISTING DOOR & HARDWARE TO BE REPLACED.



EXISTING STOREFRONT WINDOW TO REMAIN. (E) DOOR & HARDWARE TO BE REPLACED.

DEMOLITION ELEVATION LEGEND

EXISTING ELEMENT TO BE DEMOLISHED

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH ANY PHASING REQUIRED TO COMPLETE THE WORK.

2. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY PARTITIONS AND TEMPORARY DOORS AS DEEMED NECESSARY BY THE ARCHITECT, ENGINEER AND OWNER. THEY SHALL BE WELL MAINTAINED AND ANY DAMAGE REPAIRED IMMEDIATELY TO AVOID MIGRATION OF DUST INTO ADJOINING AREAS.

3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK IN OCCUPIED SPACES. DEMOLITION WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE DISRUPTIONS TO OCCUPANTS AND SPACES TO REMAIN OCCUPIED. PROTECT EXISTING FLOOR FINISHES FROM CONSTRUCTION TRAFFIC THROUGH OCCUPIED AREAS.

4. ALL DEMOLITION SHALL BE MADE CLEAN AND COMPLETE AND IN A MANNER SUITABLE TO ACCEPT NEW FINISHES AND/OR SURFACES.

5. THE CONTRACTOR SHALL COVER AND PROTECT OWNER'S EQUIPMENT WHICH CANNOT BE REMOVED FROM THE PROJECT AREA.

6. REMOVE ALL EXISTING WALL MOUNTED ITEMS WITHIN THE PROJECT LIMIT AREA WHICH ARE NOT NOTED TO REMAIN. THE CONTRACTOR SHALL DISPOSE OF THESE ITEMS AFTER INSPECTION BY THE OWNER FOR FUTURE USE. IF ITEMS ARE REMOVED FROM WALLS THAT ARE TO REMAIN, THE CONTRACTOR SHALL PATCH WALLS AS REQUIRED TO RECEIVE NEW FINISHES AND SURFACES.

7. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION ACCORDING TO EACH TRADE.

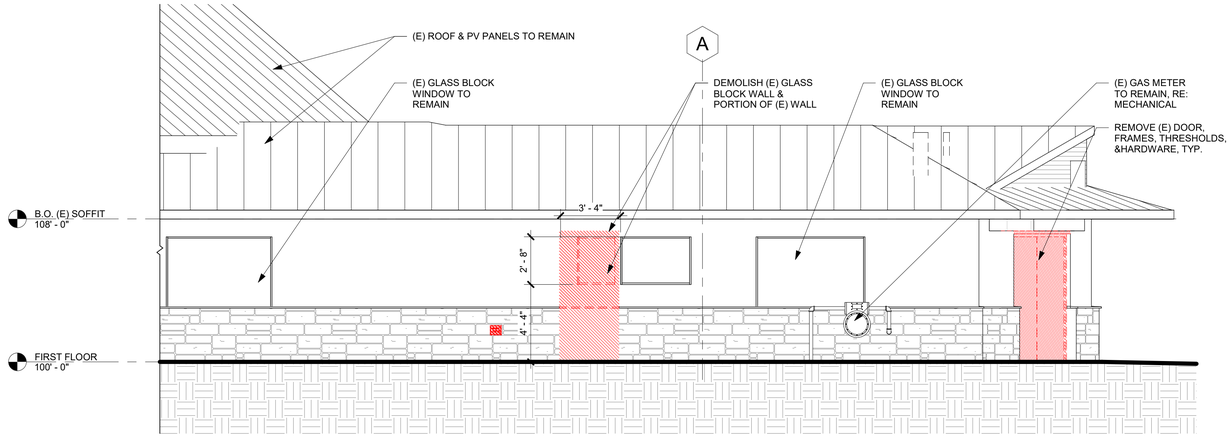
8. DEMOLITION FOR BUILDING SERVICES AND UTILITIES SHALL BE PERFORMED BY THE TRADE RESPONSIBLE FOR THAT UTILITY. OPENINGS FOR DEMOLISHED UTILITIES SHALL BE INFILLED BY TRADE RESPONSIBLE FOR PIPING, DUCT OR CONDUIT DEMOLITION. OPENINGS THROUGH FIRE-RATED CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION OR BE FIRESTOPPED.

9. WHERE EXTERIOR WALLS, DOORS AND/OR WINDOWS ARE TO BE REMOVED OR MODIFIED, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT THE EXISTING BUILDING REMAINS WEATHER-TIGHT AND WITHOUT DRAFTS.

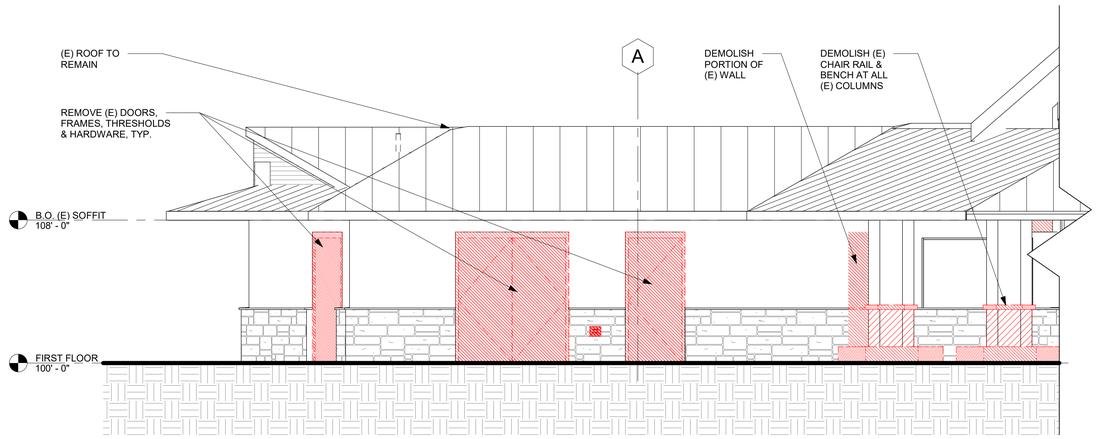
10. REMOVE EXISTING FLOOR AND BASE MATERIALS IN ALL AREAS SCHEDULED TO RECEIVE NEW FLOOR AND BASE. REFER TO FINISH DRAWINGS OR SCHEDULES. ALL FLOOR DEMOLITION TO REFER TO 'GENERAL DEMOLITION NOTE #4'.

11. CONTRACTOR SHALL VERIFY WITH OWNER REGARDING ANY SITE EQUIPMENT, TREES, SHRUBS, OR VEGETATION TO BE SALVAGED BEFORE ANY SITEWORK COMMENCES.

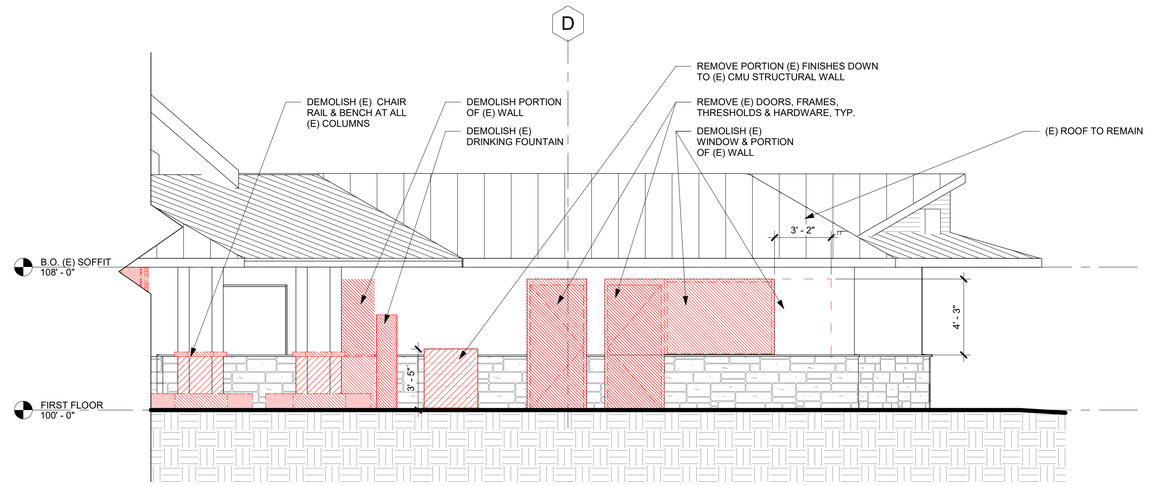
12. FOR ALL DOORS SHOWN TO BE REMOVED, THE DOOR, FRAMES, THRESHOLDS AND HARDWARE ARE TO BE DEMOLISHED.



3 A013 SOUTHWEST - DEMO ELEVATION
1/4" = 1'-0"
0 2' 4' 8'



2 A013 SOUTHEAST - DEMO ELEVATION
1/4" = 1'-0"
0 2' 4' 8'



1 A013 NORTHEAST - DEMO ELEVATION
1/4" = 1'-0"
0 2' 4' 8'

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3/23/26

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DEMOLITION ELEVATIONS

A013

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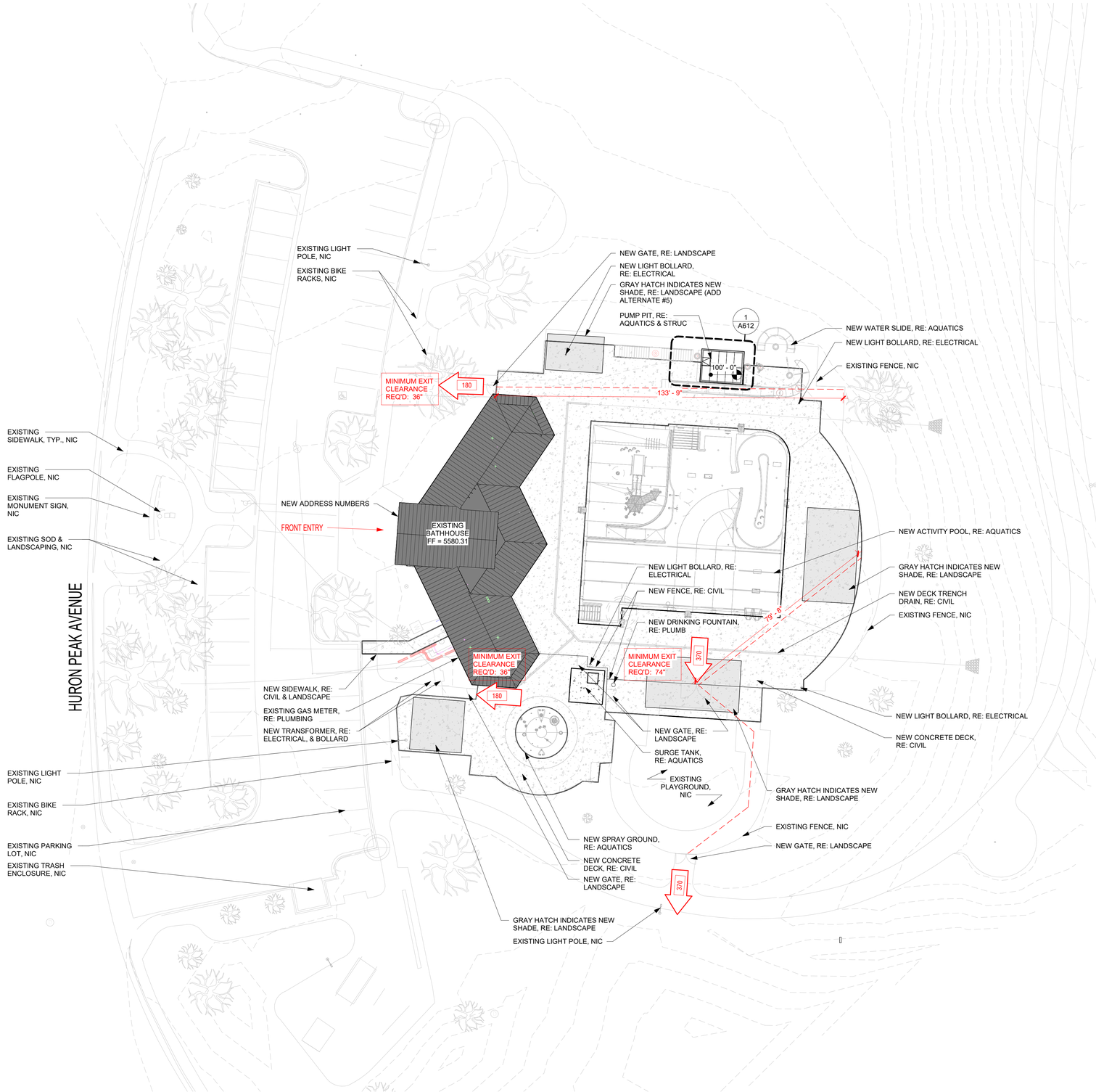

1 A100 ARCHITECTURAL SITE PLAN

1" = 20'-0"

0 20' 40' 80'

SITE PLAN LEGEND

SITE EGRESS OCCUPANT LOADS

NEW CONCRETE, RE: CIVIL & LANDSCAPE

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ARCHITECTURAL SITE PLAN

A100

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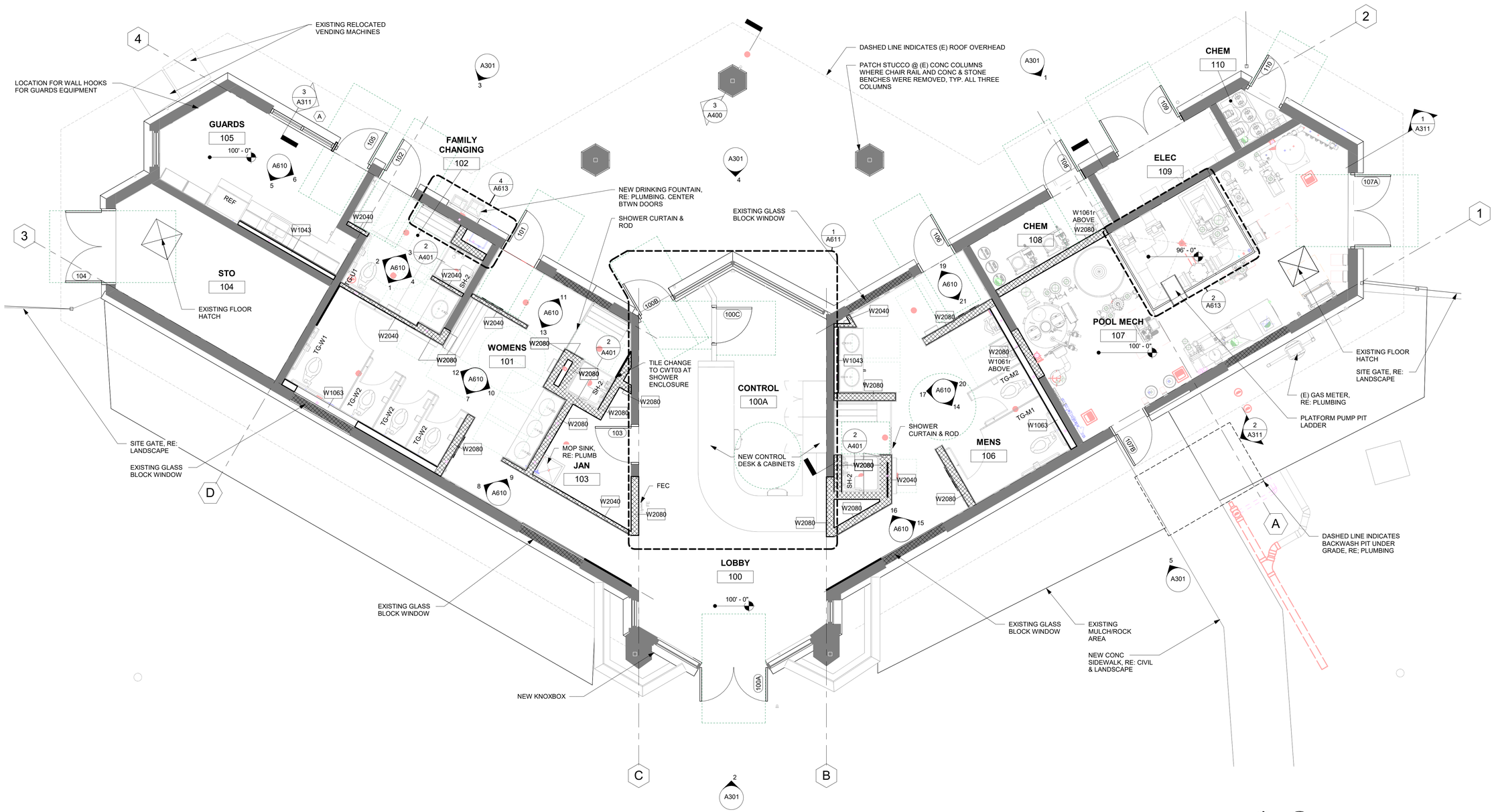
FLOOR PLAN LEGEND

- EXISTING ELEMENT TO REMAIN
- NEW WALL, RE: WALL TYPES
- EXISTING STOREFRONT/CURTAIN WALL SYSTEM TO REMAIN
- NEW STOREFRONT WINDOW, RE: WINDOW TYPES



1 A101 FIRST FLOOR PLAN - ANNOTATION
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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OVERALL FIRST FLOOR PLAN - ANNOTATIONS

A101

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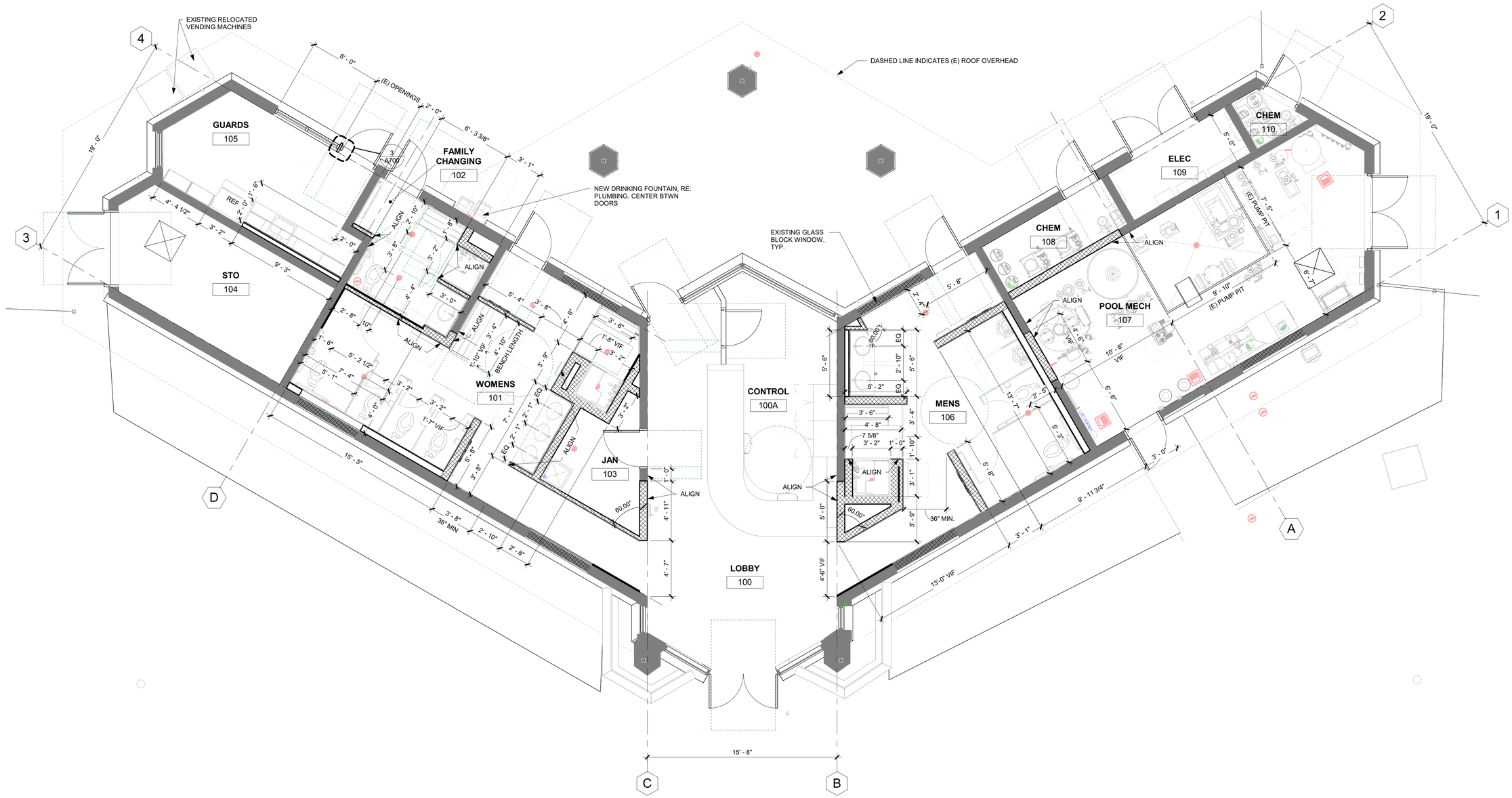
FLOOR PLAN LEGEND

- EXISTING ELEMENT TO REMAIN
- NEW WALL, RE: WALL TYPES
- EXISTING STOREFRONT/CURTAIN WALL SYSTEM TO REMAIN
- NEW STOREFRONT WINDOW, RE: WINDOW TYPES



1 A102 FIRST FLOOR PLAN - DIMENSIONS
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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OVERALL FIRST FLOOR PLAN - DIMENSIONS

A102

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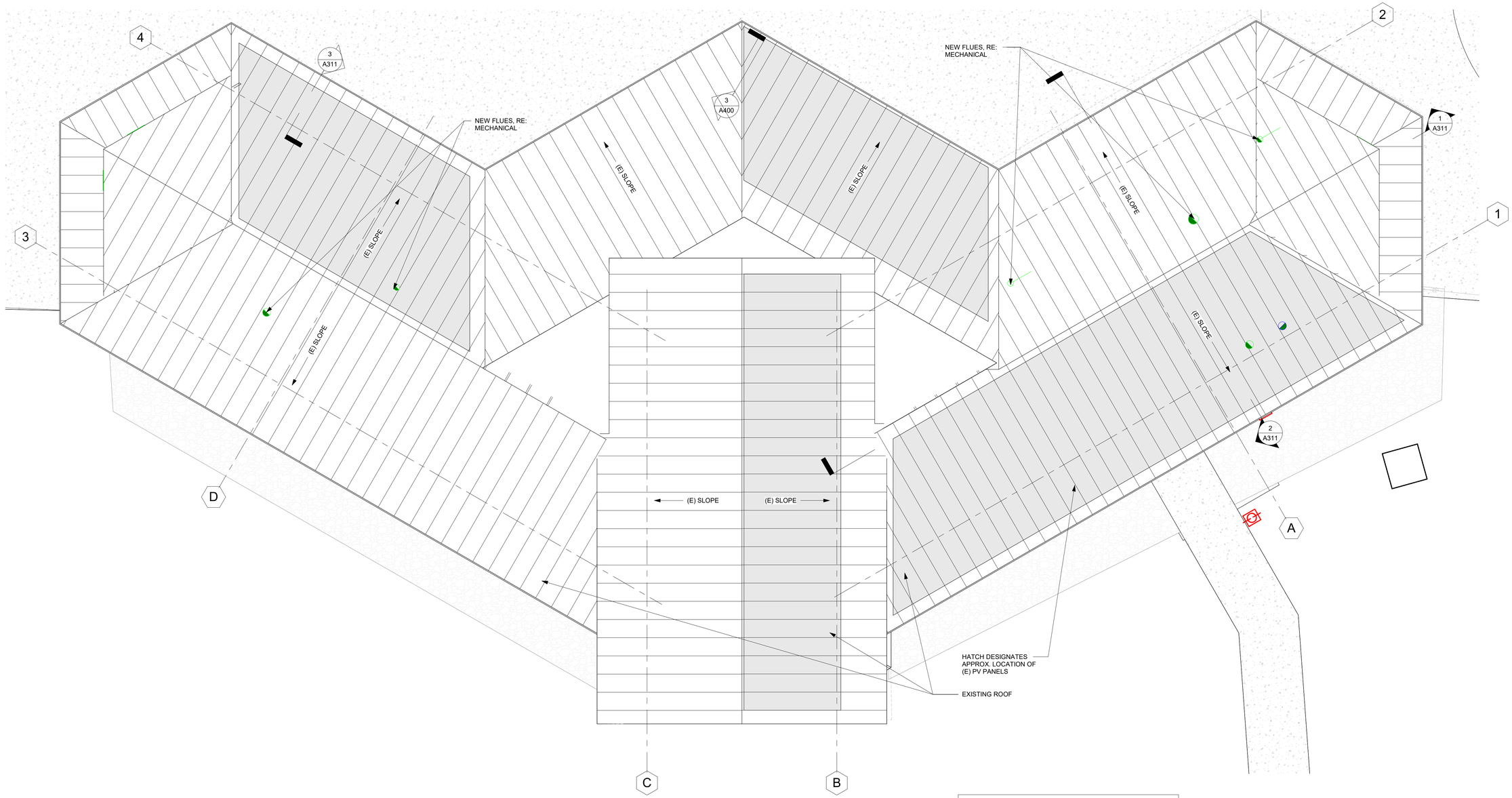

GENERAL NOTE:
CONTRACTOR TO COORDINATE WITH OWNER & PV INSTALLER TO REMOVE (E) PV PANELS WHERE NEEDED BEFORE CONSTRUCTION AND TO REPLACE THEM IN THEIR CURRENT LOCATION.

1 / A131 ROOF PLAN
1/4" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

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OVERALL ROOF PLAN

A131

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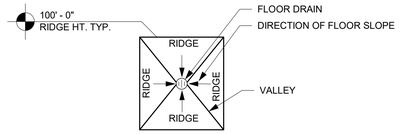
DRAINAGE PLAN GENERAL NOTES:

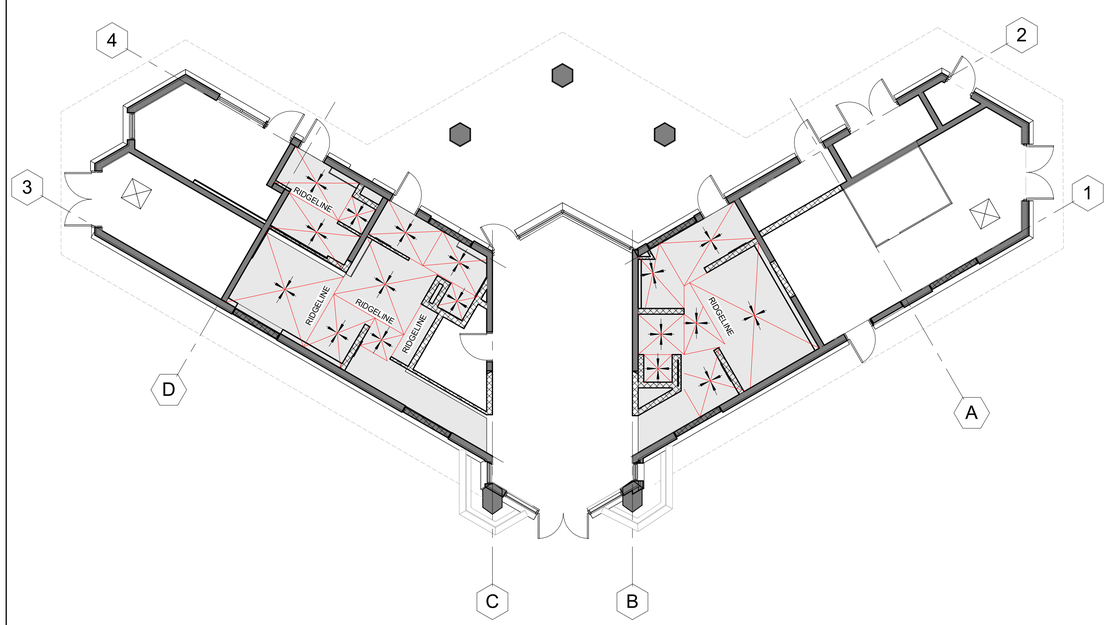
1. REFER TO A101 AND A102 FOR ADDITIONAL INFORMATION IN THIS AREA
2. DIMENSIONS ARE TO FACE OF CMU, GRIDLINES AND CENTER LINES OF AREA DRAINS
3. FLOOR SLOPES TO BE MAXIMUM 1:48; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MAXIMUM SLOPE WHERE SLOPES ARE INDICATED
4. FLOOR SLOPES TO BE MINIMUM 1:96; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MININUM SLOPE WHERE SLOPES ARE INDICATED
5. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR DRAIN TYPES
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS INDICATING DRAIN LOCATIONS, DRAIN HEIGHTS AND FLOOR SLOPES COMPLYING WITH NOTES 4 AND 5 ABOVE, FOR ALL LOCKER ROOMS AND POOL DECK AREAS.
7. CONTRACTOR TO CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN ALL APPROPRIATE SUB-CONTRACTORS, ARCHITECTS AND ENGINEERS FOR SHOP DRAWING REVIEW PRIOR TO INSTALLATION OF FLOOR DRAINS, CONCRETE POOL DECKS AND ASSOCIATED COMPONENTS

DRAINAGE PLAN SYMBOL DIAGRAM

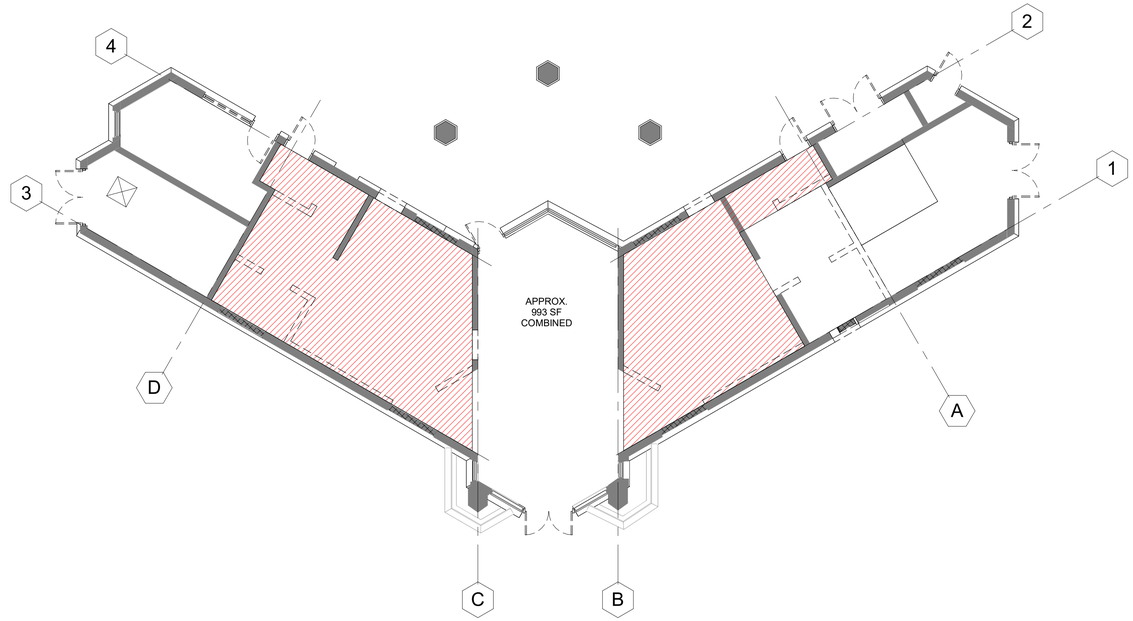


EXISTING SLAB TO BE REMOVED. SAWCUT, REMOVE CONC DOWN TO METAL DECK. METAL DECK TO REMAIN

NEW SLOPED SLAB OVER (E) METAL DECK



2 A150 FIRST FLOOR PLAN - NEW SLAB DRAINAGE PLAN (ADD ALTERNATE)
1/8" = 1'-0"



1 A150 FIRST FLOOR PLAN - SLAB DEMO PLAN (ADD ALTERNATE)
1/8" = 1'-0"

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ADD ALTERNATE - CONC SLAB DEMOLITION

A150

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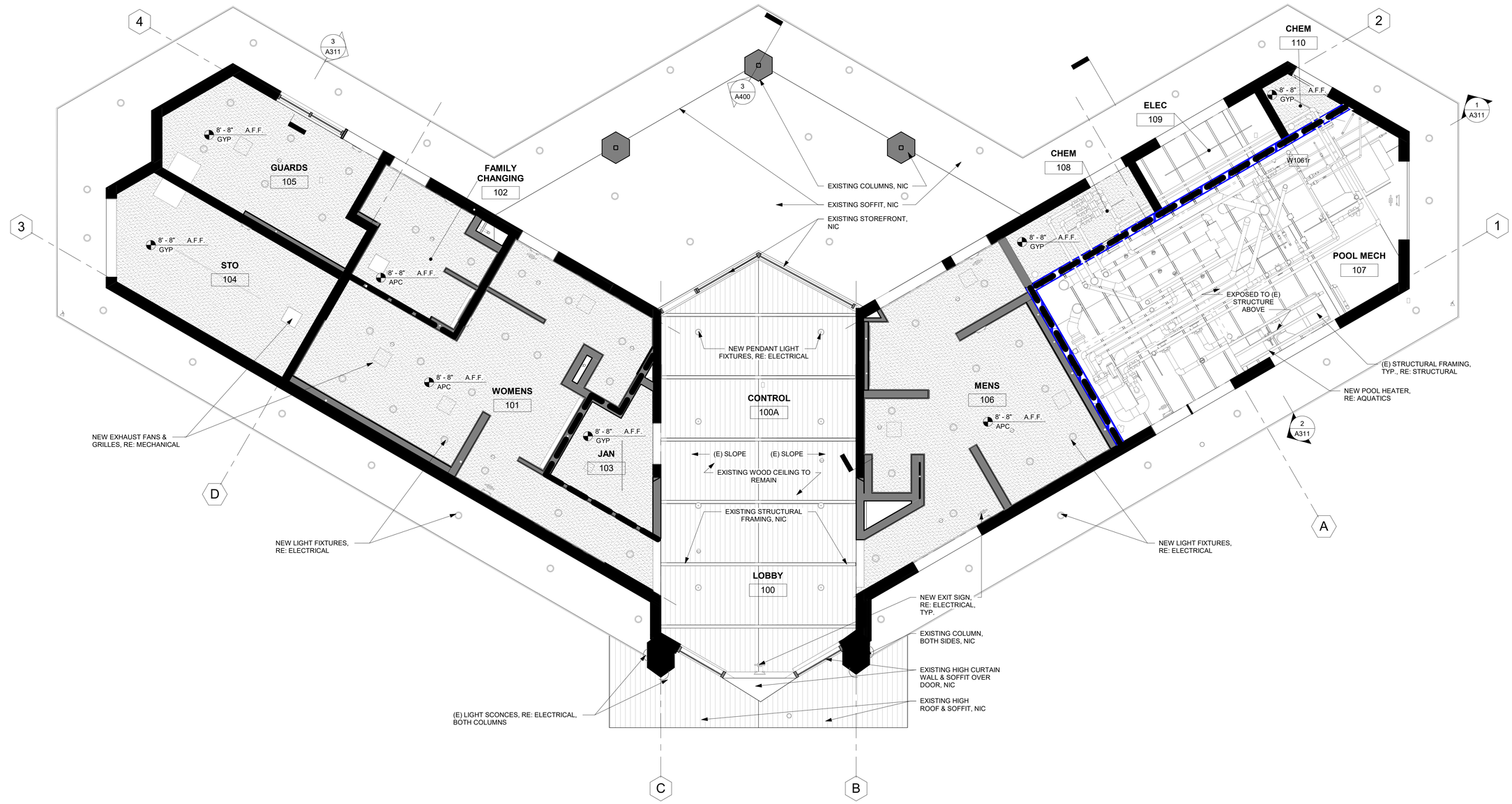
RCP GENERAL NOTES

1. ALL CEILING ELEVATIONS LISTED AS A.F.F. DIMENSIONS. SEE INTERIOR ELEVATIONS FOR CLARIFICATION IF NECESSARY.
2. REFER TO WALL TYPES LISTED ON A001. THOSE WALLS, DESIGNATED ON PLANS AND WITHIN DETAILS MAY BE INTENDED TO CONTAIN SOME SOUND, WATER VAPOR, SMOKE AND /OR FIRE ATTENUATION.
3. RE: FOR ACOUSTIC PANEL CEILING SEISMIC BRACING DETAILS.
4. ALL WALLS SHALL TERMINATE 6" ABOVE CEILING ELEVATION UNLESS OTHERWISE NOTED.

RCP LEGEND

- WALL EXTENDS TO B.O. TRUSSES ABOVE
- 1 HOUR RATED BARRIER
- EXISTING WALL
- NEW CMU WALL
- NEW GYP. BD. CEILING, APC FINISH WHERE APPLICABLE
- EXISTING SOFFIT, TO REMAIN
- EXISTING LOBBY CEILING, TO REMAIN

SEE MECHANICAL AND ELECTRICAL LEGENDS FOR ADDITIONAL SYMBOLS



1 A211 FIRST FLOOR RCP
1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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Superior, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT
3/23/26

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OVERALL FIRST FLOOR RCP

A211

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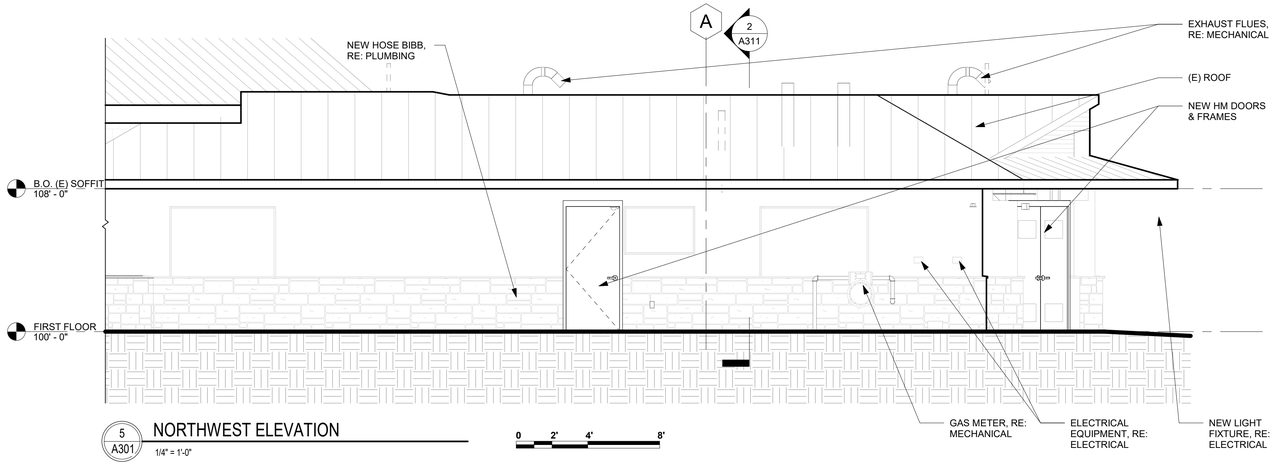
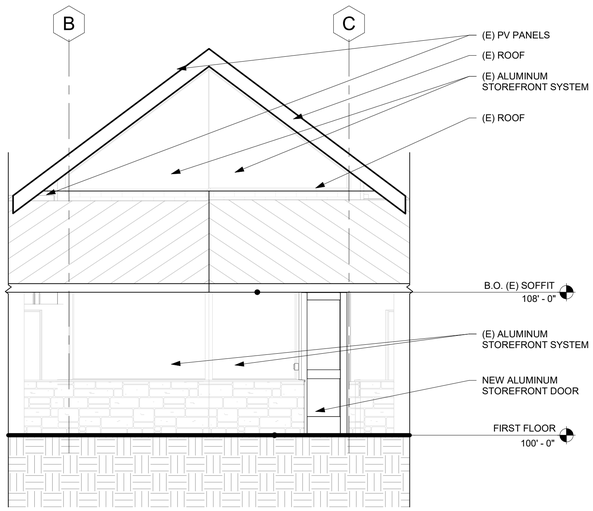


5 A301 NORTHWEST ELEVATION

1/4" = 1'-0"

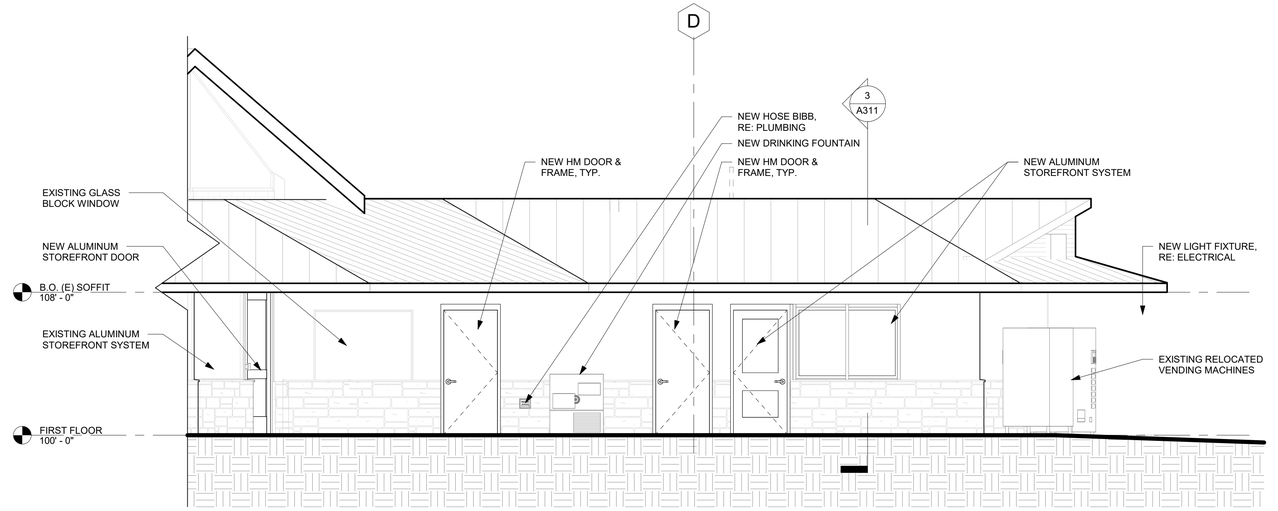
0 2' 4' 8'



4 A301 POOL DECK LOBBY ELEVATION

1/4" = 1'-0"

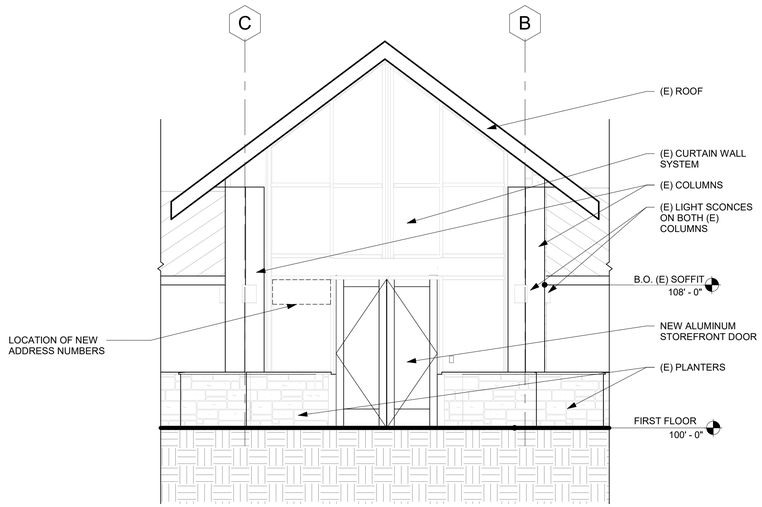
0 2' 4' 8'



3 A301 NORTHEAST ELEVATION

1/4" = 1'-0"

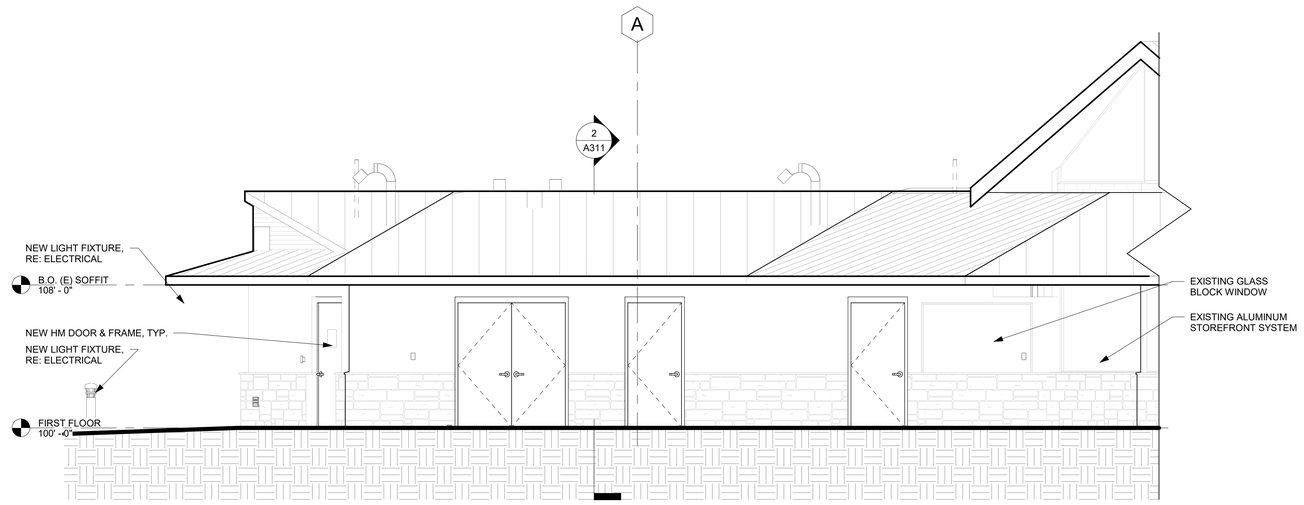
0 2' 4' 8'



2 A301 FRONT ENTRY ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



1 A301 SOUTHEAST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

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PARTIAL BUILDING ELEVATIONS

A301

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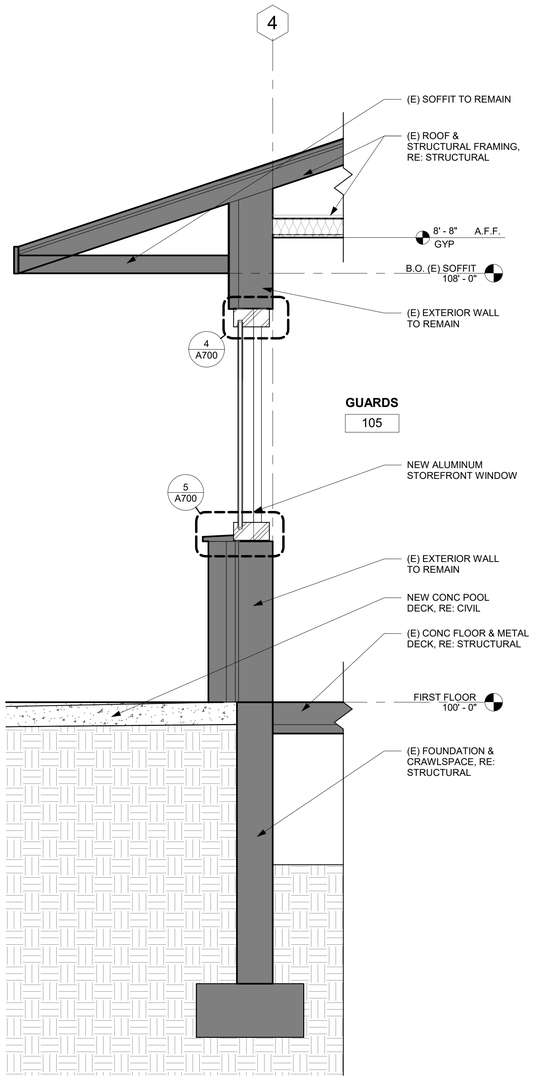
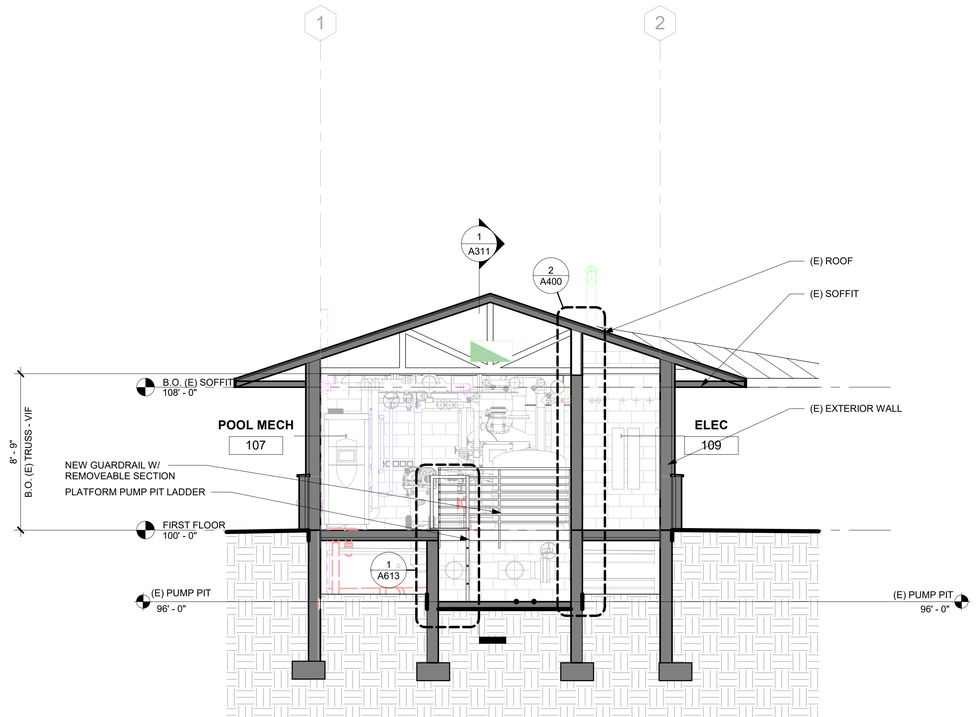


3 A311 WALL SECTION - NEW WINDOW IN (E) WALL

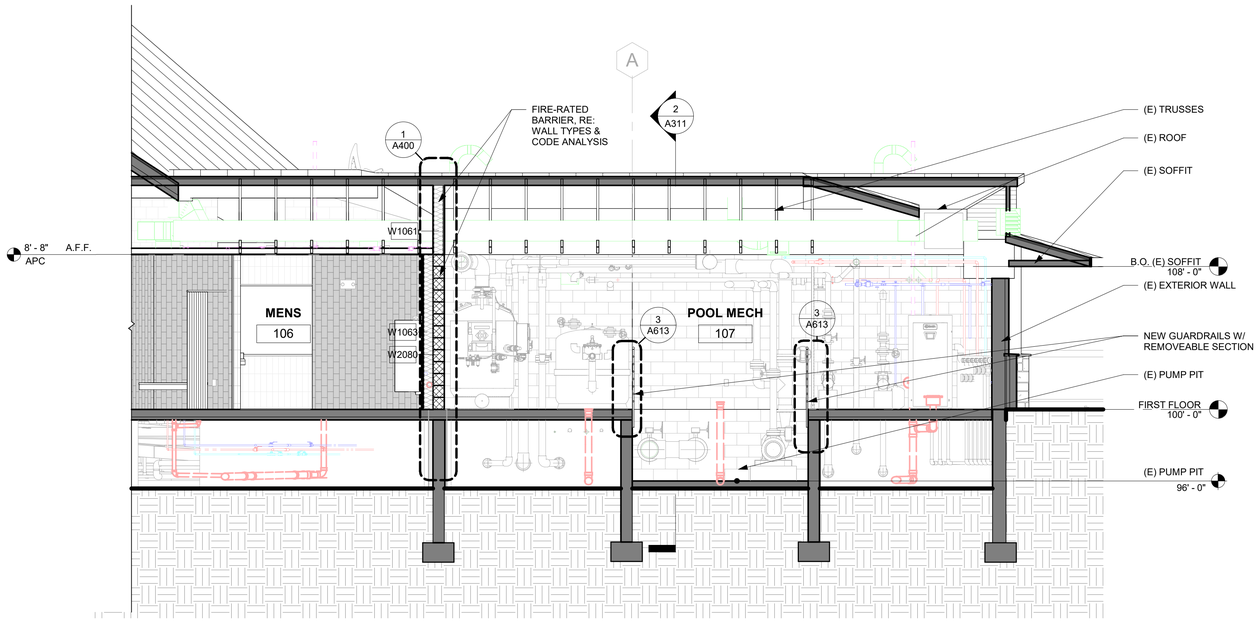
3/4" = 1'-0"



2 A311 BUILDING SECTION - PUMP PIT E/W

1/4" = 1'-0"

0 2' 4' 8'



1 A311 BUILDING SECTION - PUMP PIT N/S

1/4" = 1'-0"

0 2' 4' 8'

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PARTIAL BUILDING SECTIONS

A311

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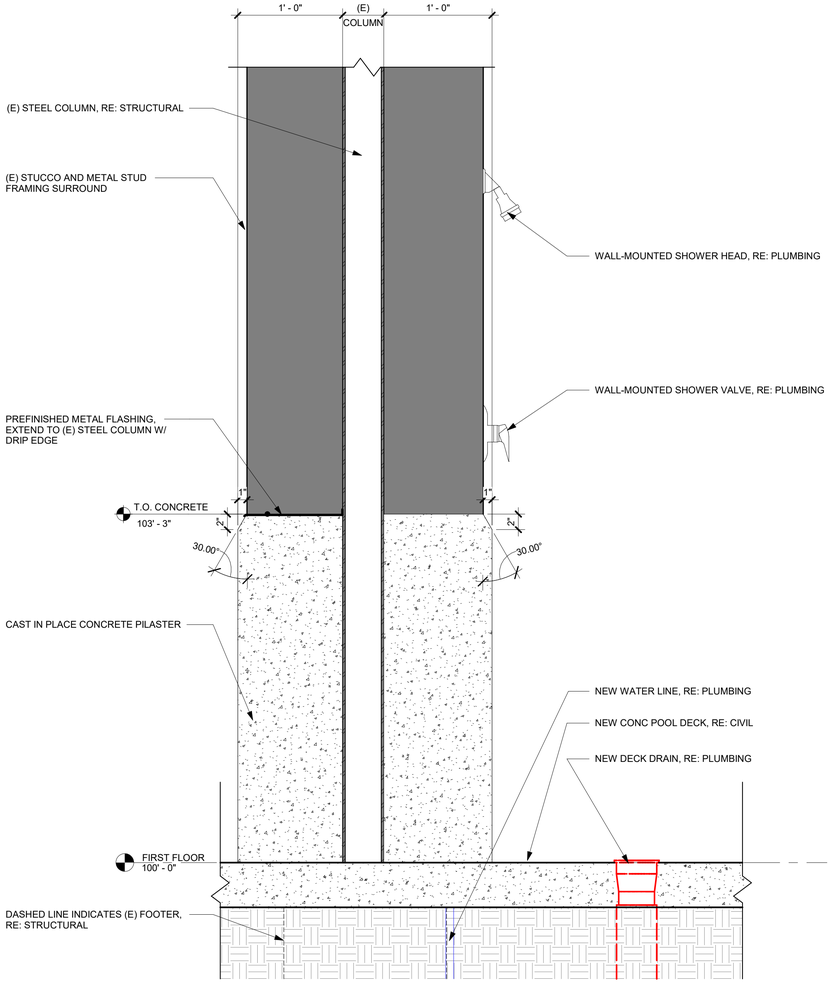
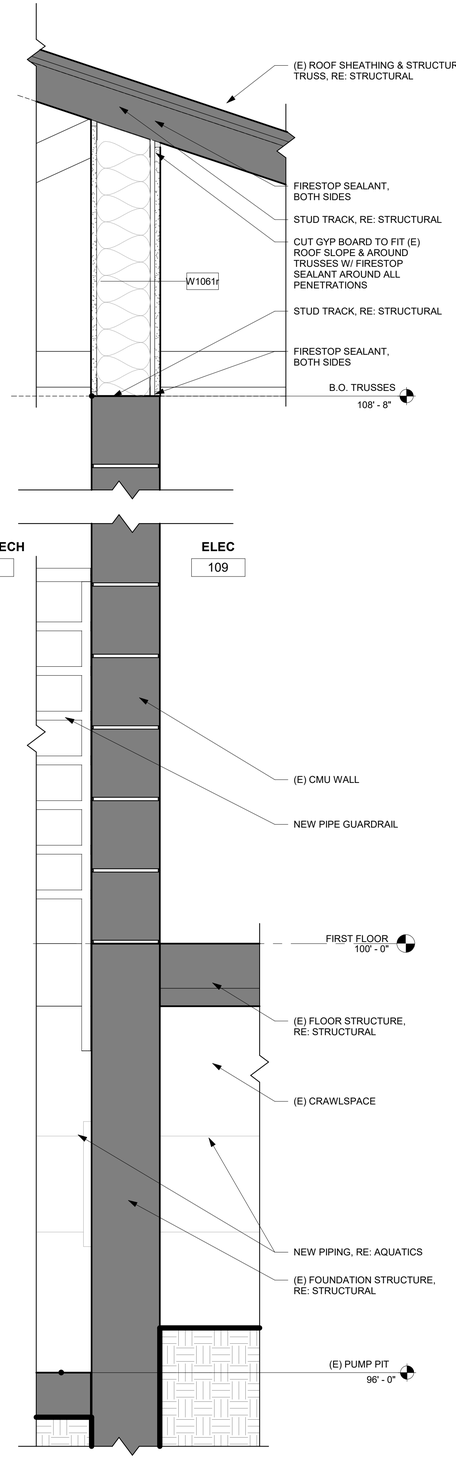


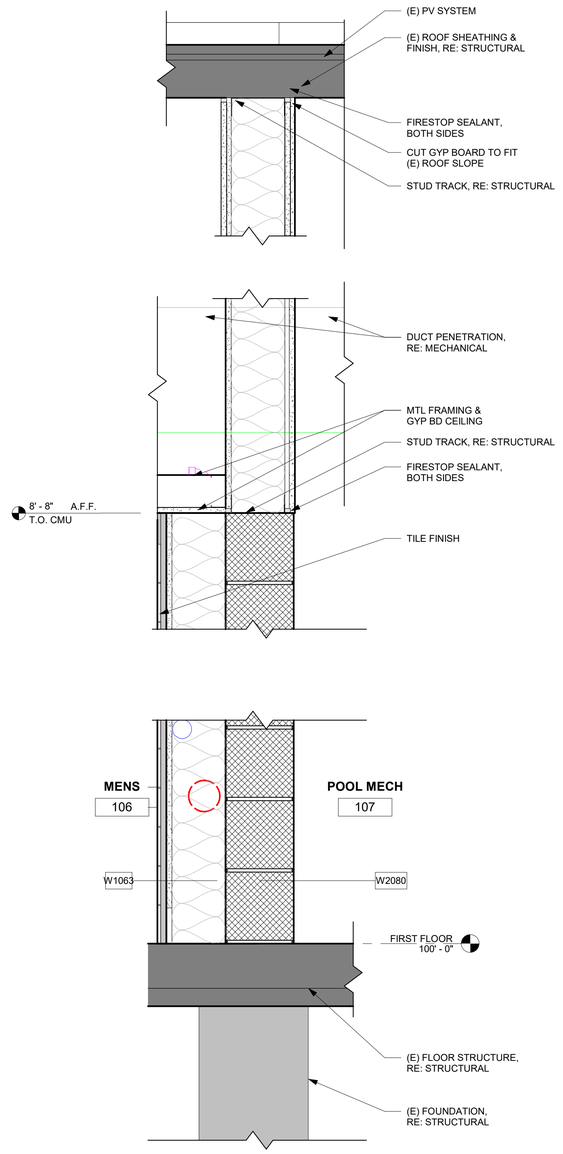
3 A400 WALL SECTION - COLUMNS @ POOL DECK

1 1/2" = 1'-0"



2 A400 WALL SECTION - FIRE-RATED BARRIER PERPENDICULAR TO TRUSSES

1 1/2" = 1'-0"



1 A400 WALL SECTION - FIRE-RATED BARRIER PARALLEL TO TRUSSES

1 1/2" = 1'-0"

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WALL SECTIONS

A400

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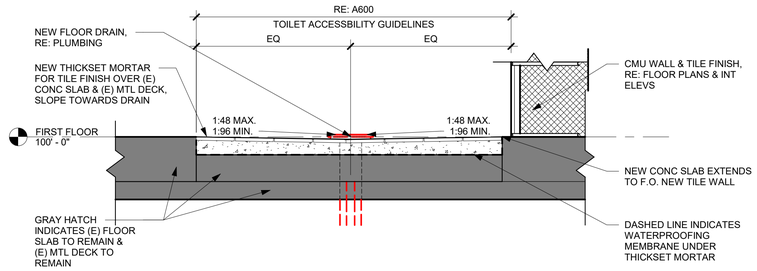
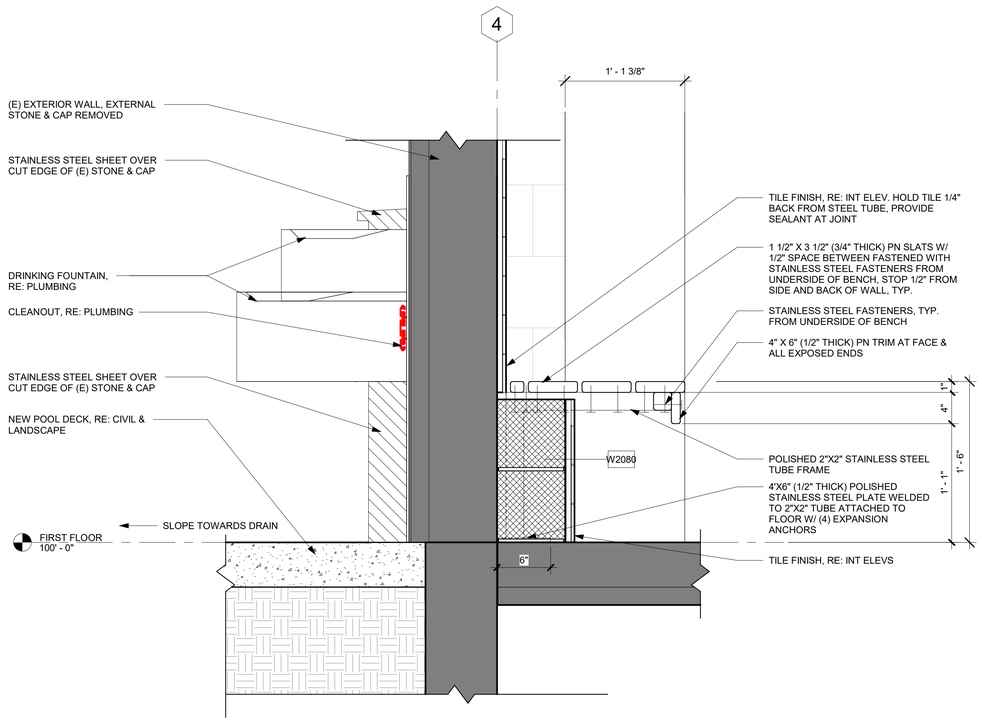


2 A401 DTL SECTION - NEW SHOWER PAN

1 1/2" = 1'-0"



1 A401 WALL SECTION - DF & BENCH @ (E) WALL

1 1/2" = 1'-0"

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DETAIL SECTIONS

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ACCESSORY NOTES:

1. NOT ALL ITEMS ON VERTICAL ACCESSORY & FIXTURE LOCATIONS DRAWING WILL BE USED. RE: PLANS, ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ITEMS USED.

2. [ ] ACCESSORY INDICATOR.

3. REFER TO PLAN, INTERIOR ELEVATIONS AND VERTICAL ACCESSORY AND FIXTURE LOCATIONS DRAWINGS TO COORDINATE ACCESSORY AND FIXTURE LOCATIONS.

4. REFER TO VERTICAL ACCESSORY AND FIXTURE LOCATIONS & TOILET ACCESSIBILITY GUIDELINES DRAWINGS FOR MOUNTING HEIGHTS AND NOTES.

5. ALL ACCESSORIES AT ACC SINGLE USER TOILET ROOMS AND IN ACC TOILET STALLS TO BE MOUNTED AT ACC HEIGHTS.

6. PROVIDE 3/8" PLYWOOD BACKING AT ALL ACCESSORIES WHERE ACCESSORY EXTENDS ABOVE TO FLUSH OUT TILE. PAINT PLYWOOD TO MATCH WALL COLOR AND CUT PLYWOOD IN 1" AROUND ACCESSORY EDGES TO CONCEAL IT.

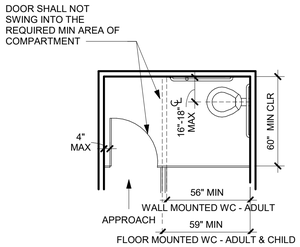
7. ALL BABY CHANGING STATIONS AND CHILD PROTECTION SEATS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE CODE COMPLIANT BLOCKING.

8. MAINTAIN CLEAR FLOOR SPACE AT ALL ACCESSORIES, LOCKER AND BENCHES, PER ACC CLEAR FLOOR GROUND SPACE, TYP.

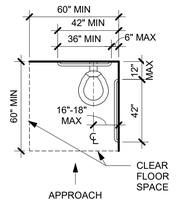
9. RE: 1/A600 GRAB BAR MOUNTING HEIGHTS & ACCESSORY ELEVATIONS

10. RE: ACCESSIBILITY GUIDELINES SHEET FOR TOILET CLEARANCES

TOILET ACCESSORY GUIDELINES:

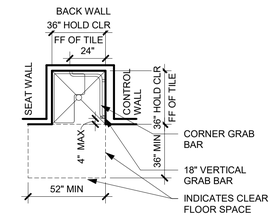


TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - STALLS ALTERNATE

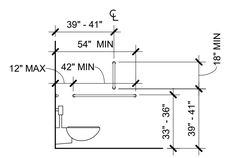


TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - NOT IN STALLS

SHOWER GUIDELINES

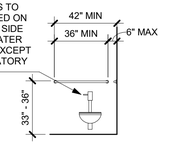


SHOWER - TRANSFER - TYPE SHOWER NEW BUILDING - OPTION 1

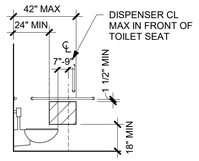


SIDE WALL ACCESSIBLE GRAB BAR DIMENSIONS

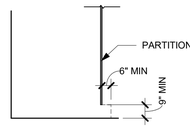
FLUSH CONTROLS TO BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET, EXCEPT IN AMBULATORY STALL



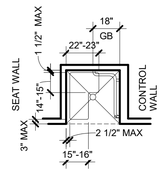
REAR ACCESSIBLE GRAB BAR DIMENSIONS



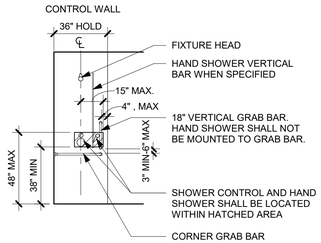
ACCESSIBLE PROTRUDING DISPENSER OPENING AREA



ACCESSIBLE COMPARTMENT TOE CLEARANCE



SHOWER - L-SHAPED SEAT



SHOWER - ACCESSIBLE CONTROL WALL

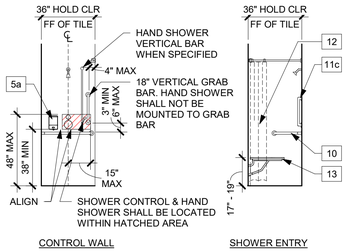
ACCESSORY SCHEDULE-BRADLEY						
NO.	Vendor	Accessory Description	Model Number	Mount Type	Electrical Requirement	Comments
1a	Bradley	Toilet Tissue Dispenser-Vertical Double Roll	5402	Surface	N/A	
2	Bradley	Napkin Disposal	4722-15	Surface	N/A	
8	Bradley	Hand Dryer	2902-287400	Surface	YES	Standard Height
10	Bradley	Grab Bar-Corner	812	Surface	N/A	
11a	Bradley	Grab Bar	812	Surface	N/A	
11b	Bradley	Grab Bar	812	Surface	N/A	
11c	Bradley	Grab Bar	812	Surface	N/A	
12	Bradley	Shower Rod, Curtain, Hooks	9531, 9533, 9540 (include all)	Surface	N/A	Rod Height -80" MIN CLR TO B.O. ROD
13	Bradley	Shower Seat	9569	Surface	N/A	
14	Bradley	Coat Hook With Bumper	915	Surface	N/A	
14a	Bradley	Double Robe Hook	9124	Surface	N/A	
17	<varies>	Mirror With Frame	<varies>	Surface	N/A	
18	Koala	Horizontal Baby Changer	KB110-SSWM	Surface		
19	Step n Wash	Fold-Down Step Stool for children	SW-975	Surface	N/A	

GENERAL NOTES:

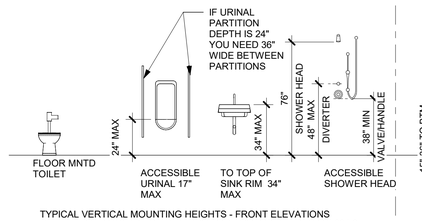
1. ALL ACCESSIBLE DIMENSIONS ARE TO FACE OF FINISH MATERIAL, UON.
2. TOLERANCES NOT PERMITTED FOR RANGES STATED WITH MIN AND MAX END POINTS

SHOWER ACCESSORY GROUPS

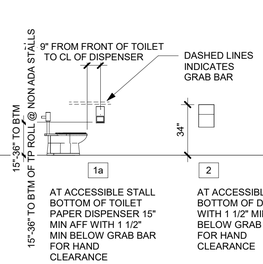
SH-2 SHOWER GROUP 2
TRANSFER - ACCESSIBLE

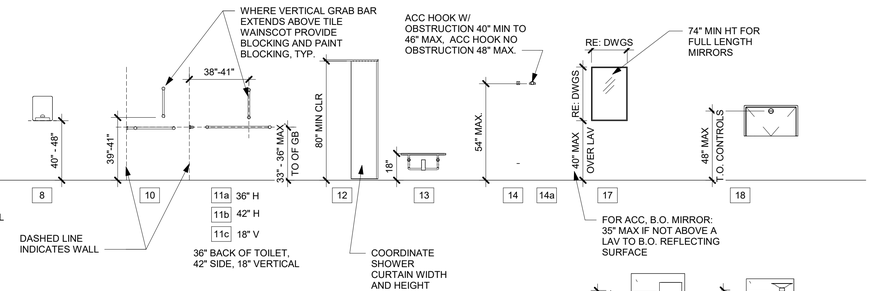


VERTICAL ACCESSORY & FIXTURE LOCATIONS



TYPICAL VERTICAL MOUNTING HEIGHTS - FRONT ELEVATIONS
REFERENCE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 604.9

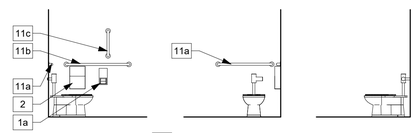




ALL DIMENSIONS ARE TO OPERABLE PARTS

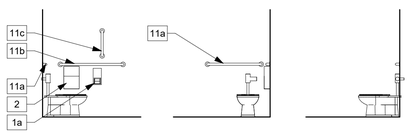
TOILET ACCESSORY GROUPS

TG-U1 TOILET GROUP 1
UNISEX (ACCESSIBLE)
FAMILY CHANGING

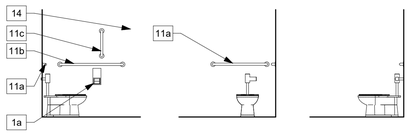


TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

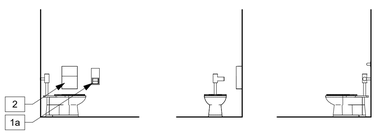
TG-W1 TOILET GROUP 1
WOMEN (ACCESSIBLE)
WOMENS



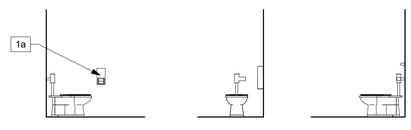
TG-M1 TOILET GROUP 1
MEN (ACCESSIBLE)
MENS



TG-W2 TOILET GROUP 2
WOMEN
WOMENS



TG-M2 TOILET GROUP 2
MEN
MENS



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TOILET ACCESSIBILITY GUIDELINES, ACCESSORY GROUPS, ACCESSORY NOTES & ACCESSORY LOCATION

A600

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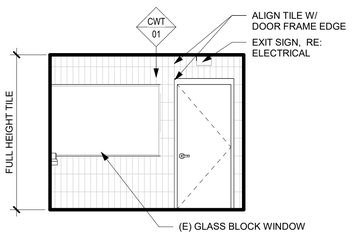
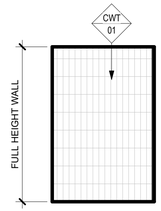
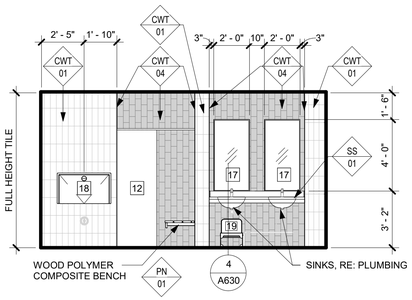
MENS



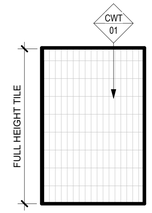
19 A610 INT ELEV - MENS N
1/4" = 1'-0"



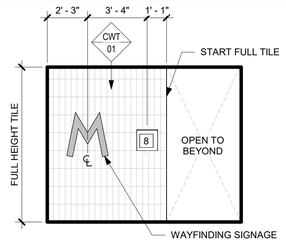
18 A610 INT ELEV - MENS W
1/4" = 1'-0"



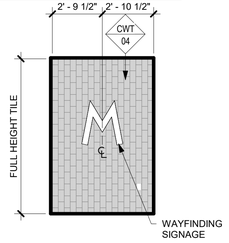
17 A610 INT ELEV - MENS NW
1/4" = 1'-0"



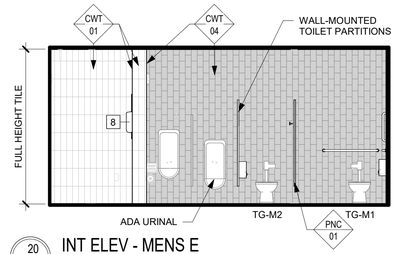
16 A610 INT ELEV - MENS ENTRY N
1/4" = 1'-0"



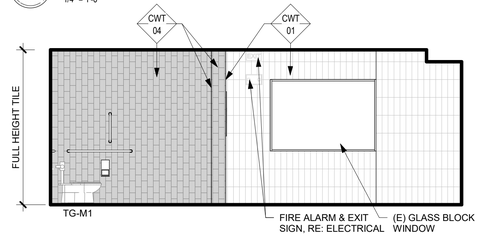
21 A610 INT ELEV - MENS POOL ENTRY
1/4" = 1'-0"



15 A610 INT ELEV - MENS ENTRY E
1/4" = 1'-0"

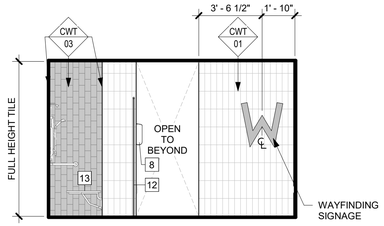


20 A610 INT ELEV - MENS E
1/4" = 1'-0"

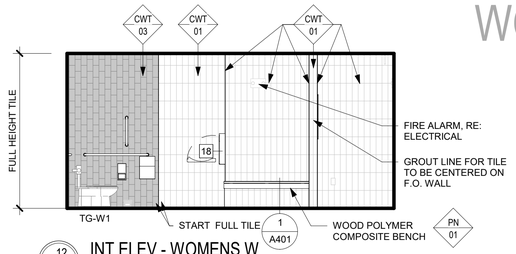


14 A610 INT ELEV - MENS S
1/4" = 1'-0"

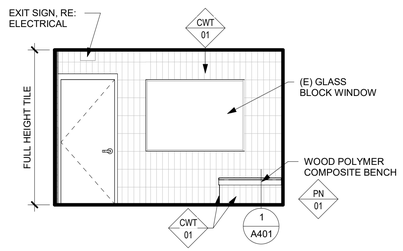
WOMENS



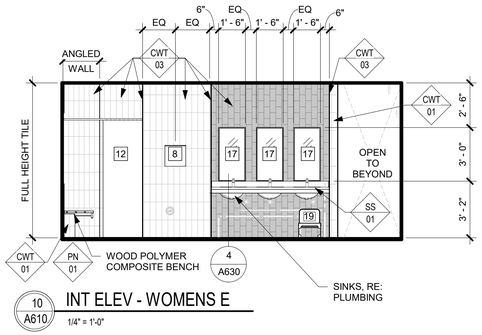
13 A610 INT ELEV - WOMENS SHOWER
1/4" = 1'-0"



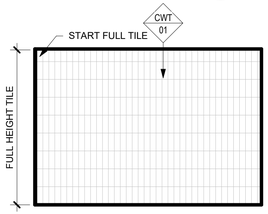
12 A610 INT ELEV - WOMENS W
1/4" = 1'-0"



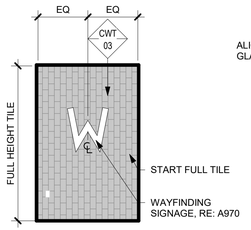
11 A610 INT ELEV - WOMENS N
1/4" = 1'-0"



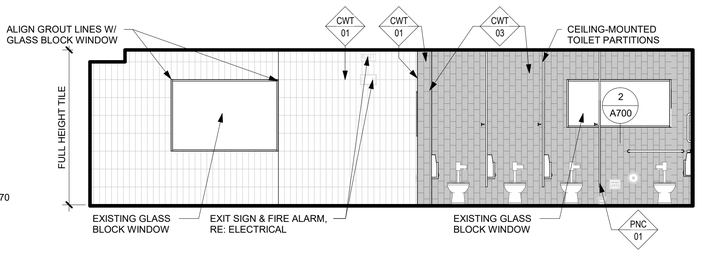
10 A610 INT ELEV - WOMENS E
1/4" = 1'-0"



9 A610 INT ELEV - WOMENS ENTRY N
1/4" = 1'-0"

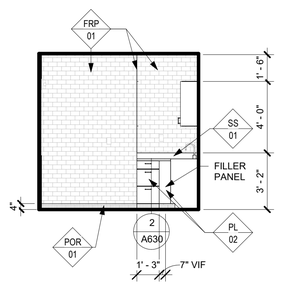


8 A610 INT ELEV - WOMENS ENTRY W
1/4" = 1'-0"

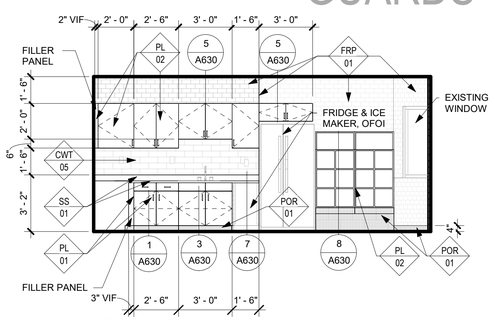


7 A610 INT ELEV - WOMENS ENTRY S
1/4" = 1'-0"

GUARDS

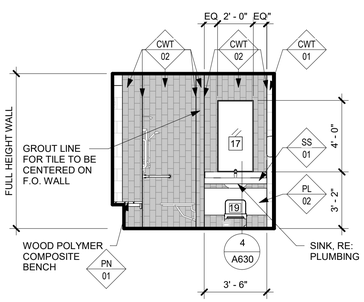


6 A610 INT ELEV - GUARDS E
1/4" = 1'-0"

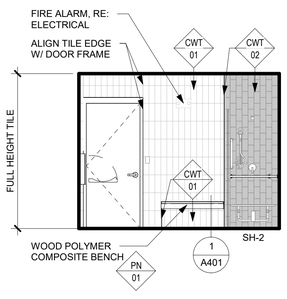


5 A610 INT ELEV - GUARDS S
1/4" = 1'-0"

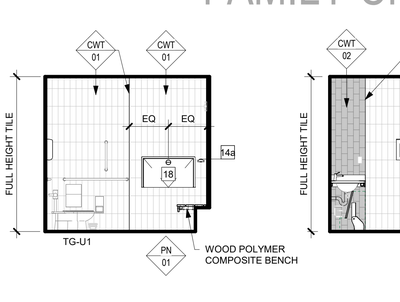
FAMILY CHANGING



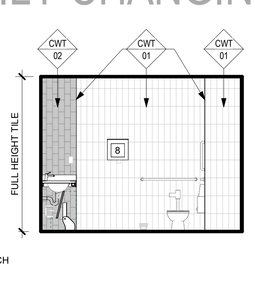
4 A610 INT ELEV - FAM CHANG. E
1/4" = 1'-0"



3 A610 INT ELEV - FAM CHANG. N
1/4" = 1'-0"



2 A610 INT ELEV - FAM CHANG. W
1/4" = 1'-0"



1 A610 INT ELEV - FAM CHANG. S
1/4" = 1'-0"

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3/23/26

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INTERIOR ELEVATIONS

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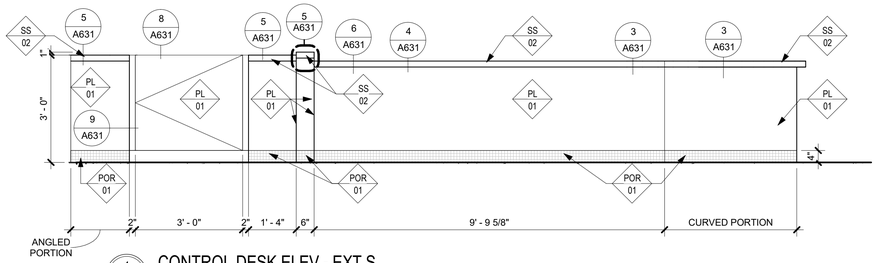
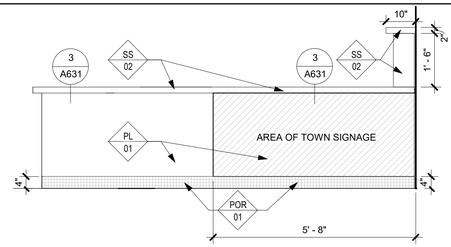
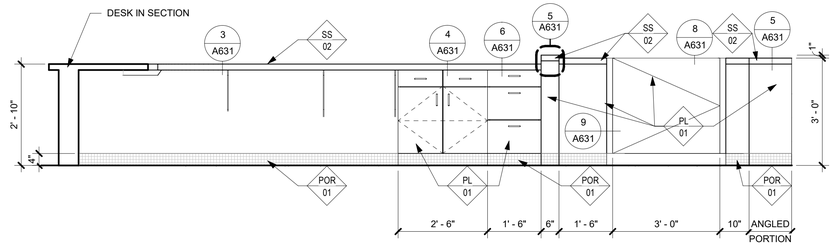


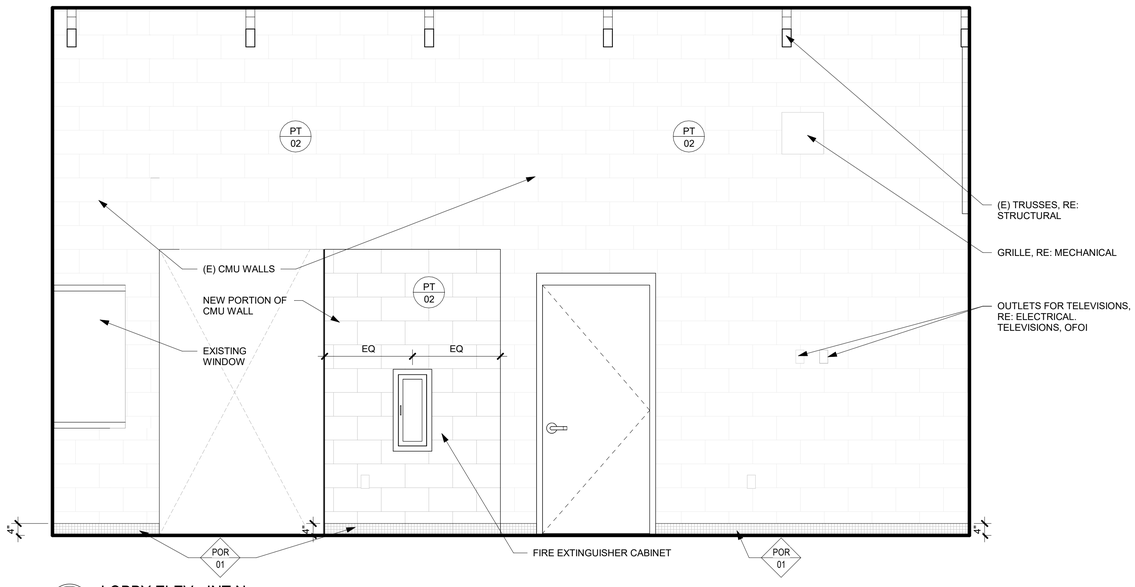
4 A611 CONTROL DESK ELEV - EXT S
1/2" = 1'-0"



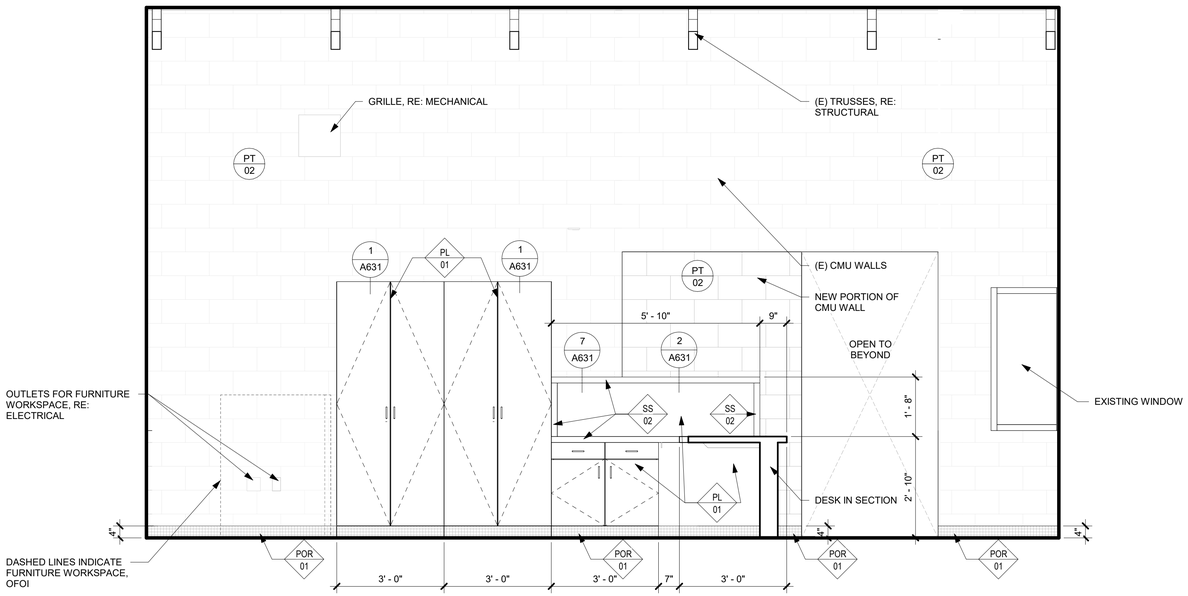
5 A611 CONTROL DESK ELEV - EXT W
1/2" = 1'-0"



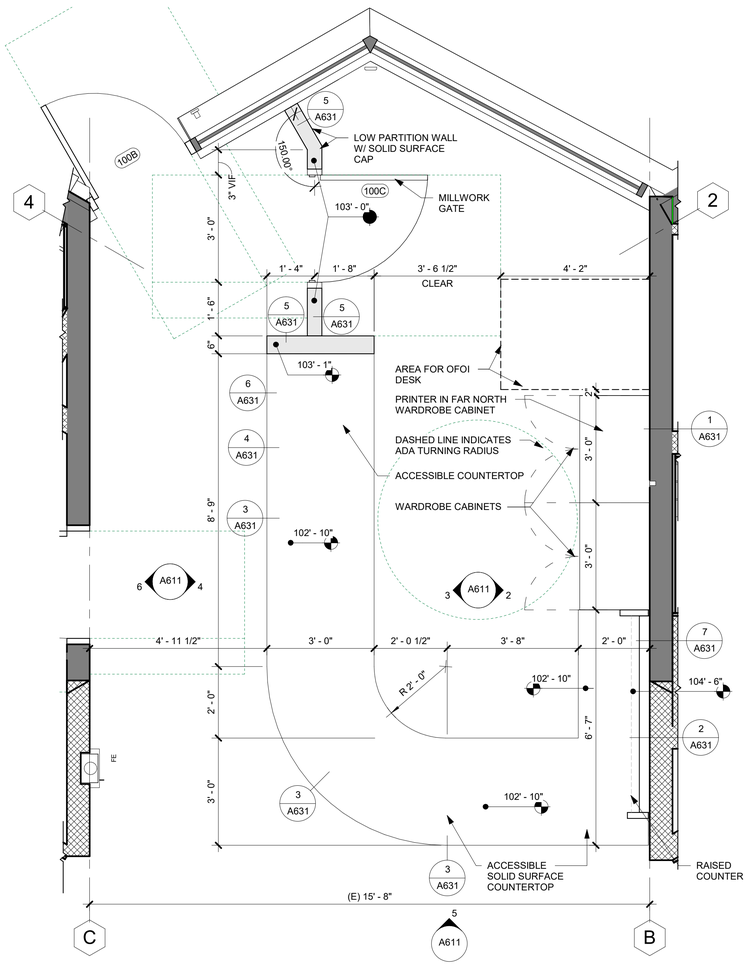
3 A611 CONTROL DESK ELEV - INT N
1/2" = 1'-0"



6 A611 LOBBY ELEV - INT N
1/2" = 1'-0"



2 A611 CONTROL DESK ELEV - INT S
1/2" = 1'-0"



1 A611 ENLARGED FLOOR PLAN - CONTROL DESK
1/2" = 1'-0"

0 1' 2' 4'

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ENLARGED PLANS, INTERIOR ELEVATIONS & DETAILS - CONTROL DESK

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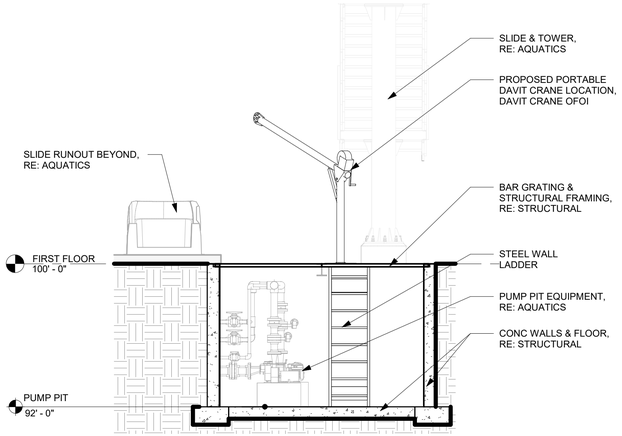
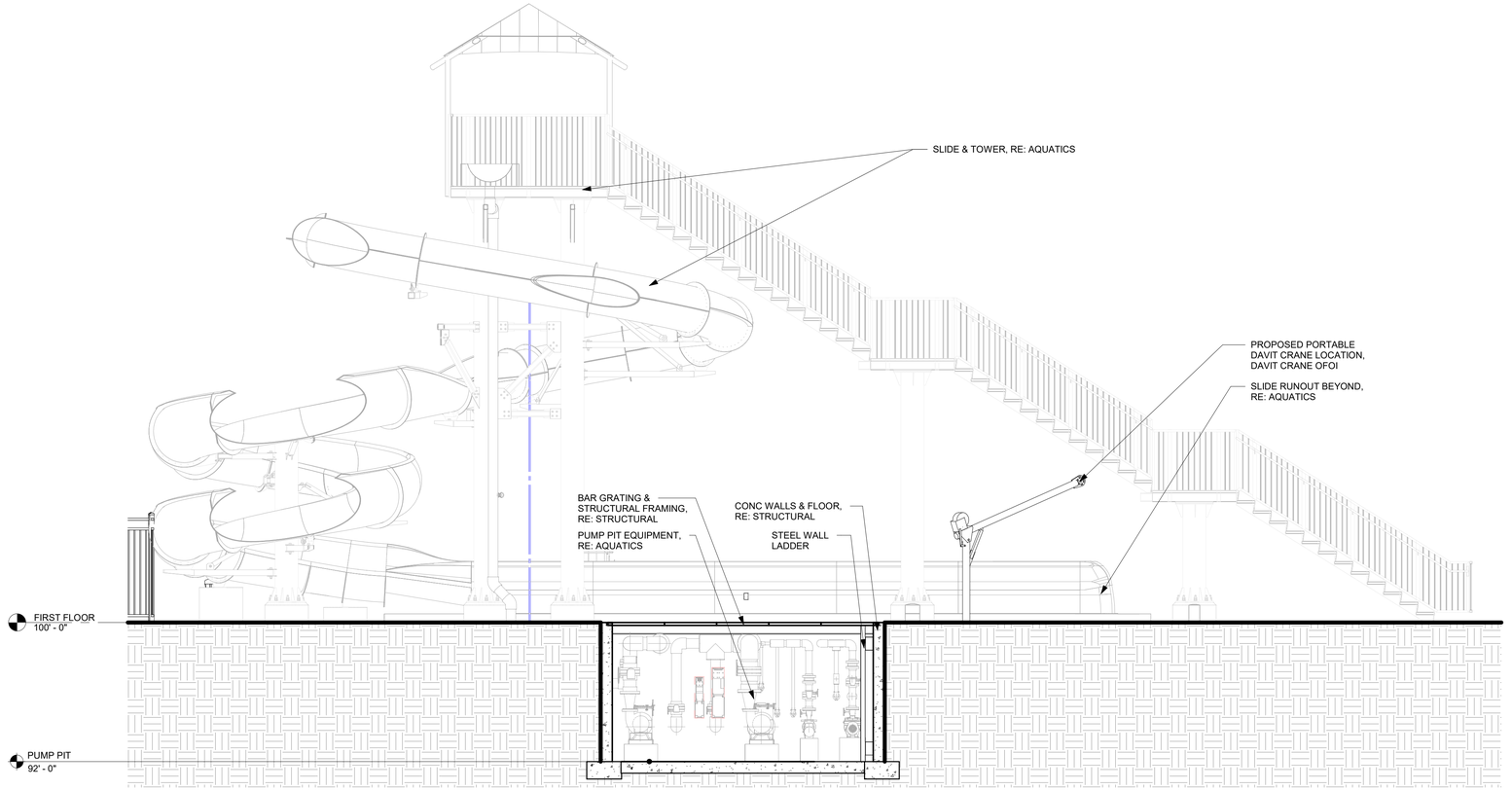


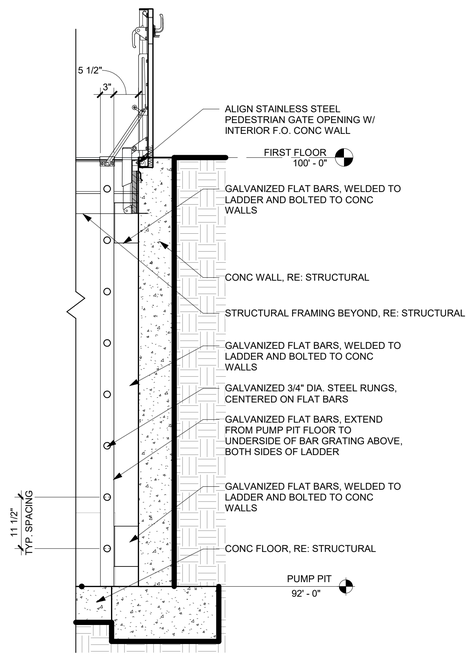
3 A612 SECTION - N/S PUMP PIT

1/4" = 1'-0"



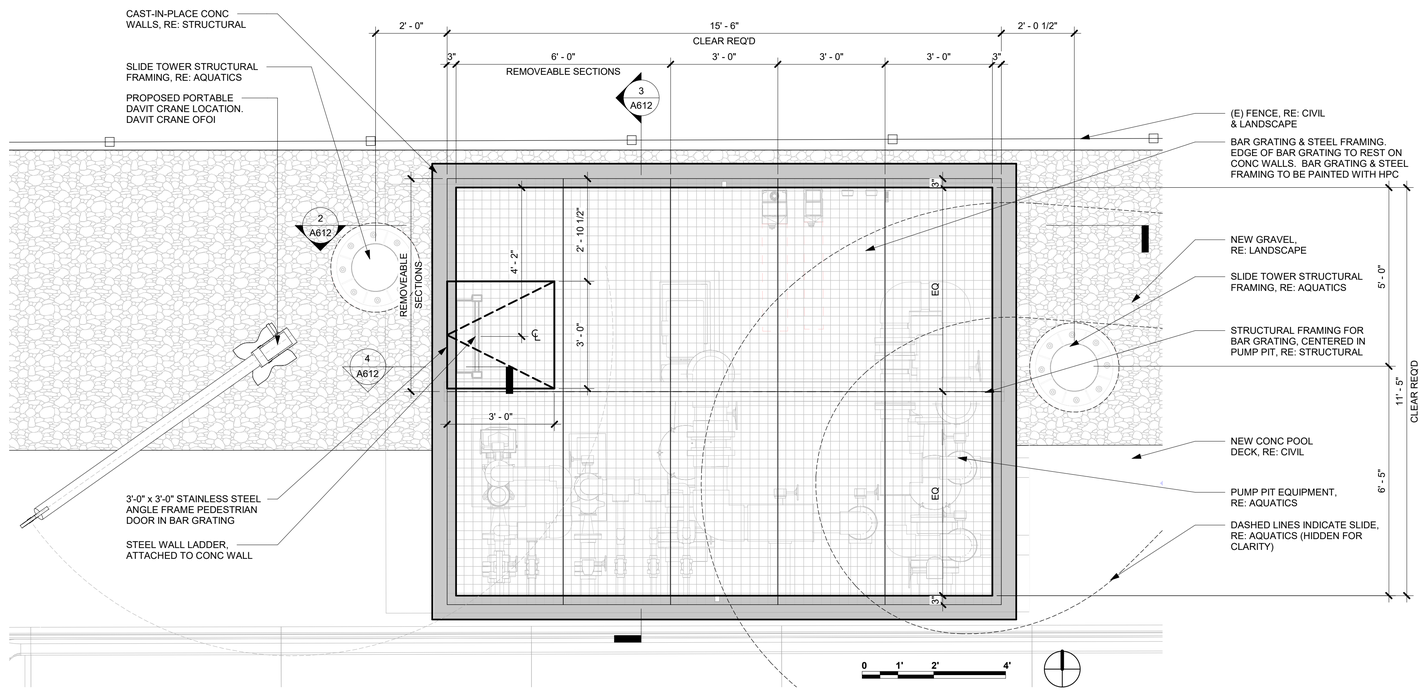
2 A612 SECTION - E/W PUMP PIT

1/4" = 1'-0"



4 A612 SECTION DTL - EXT PUMP PIT LADDER

3/4" = 1'-0"



1 A612 ENLARGED PLAN - SLIDE TOWER PUMP PIT

1/2" = 1'-0"

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ENLARGED PLANS, SECTIONS - EXTERIOR PUMP PIT

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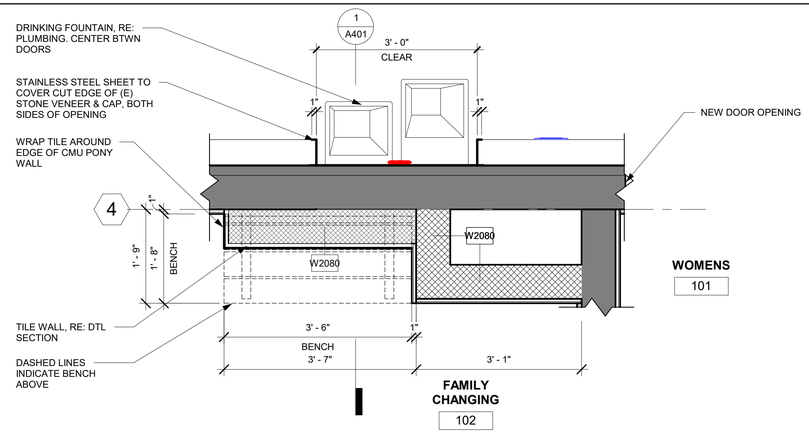
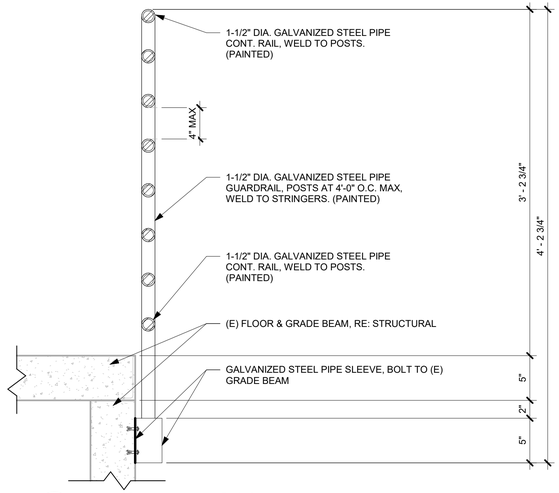


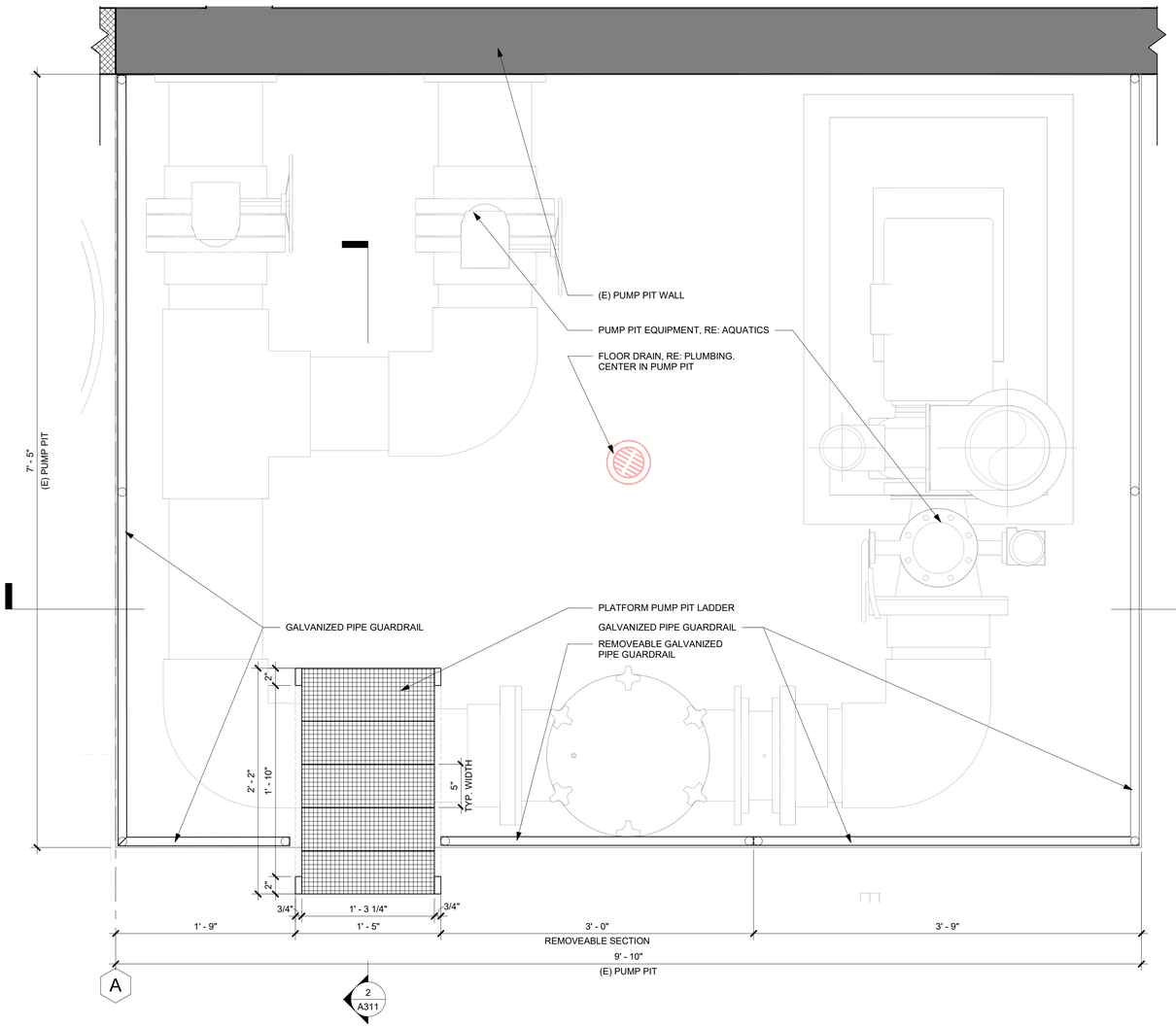
4 A613 ENLARGED PLAN - DF & FC BENCH

3/4" = 1'-0"



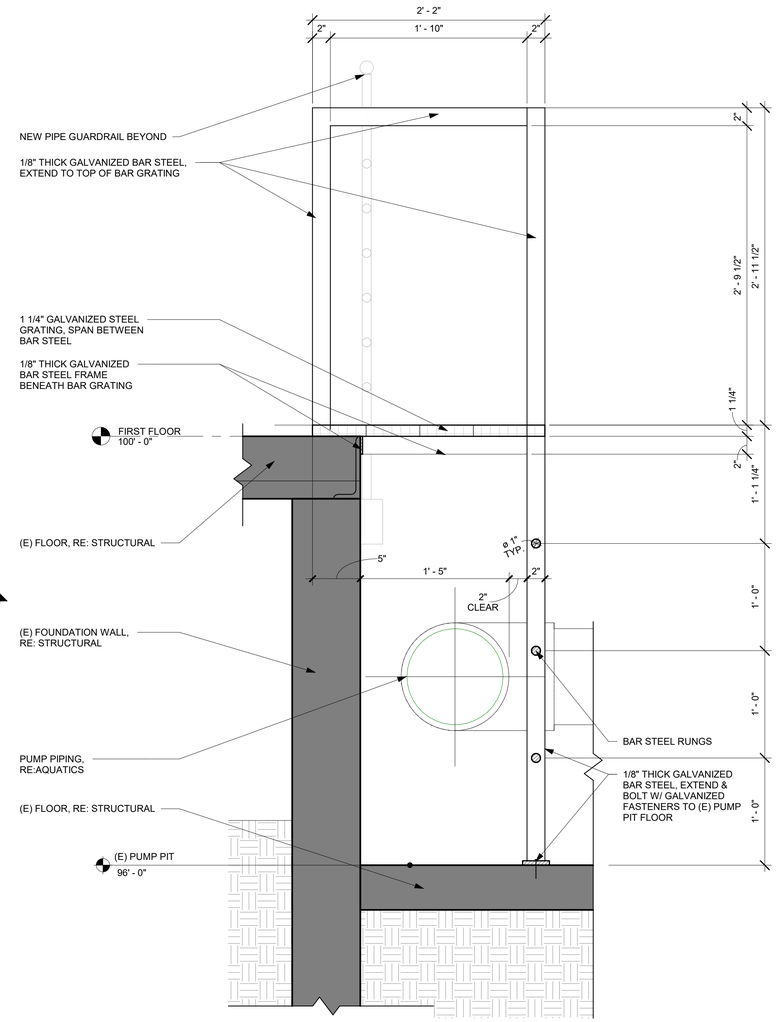
3 A613 PIPE GUARDRAIL @ (E) PUMP PIT

1 1/2" = 1'-0"



2 A613 ENLARGED FLOOR PLAN - (E) PUMP PIT

1 1/2" = 1'-0"



1 A613 SECTION DTL - PUMP PIT LADDER

1 1/2" = 1'-0"

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ENLARGED PLANS, SECTIONS - (E) PUMP PIT & DRINKING FOUNTAIN

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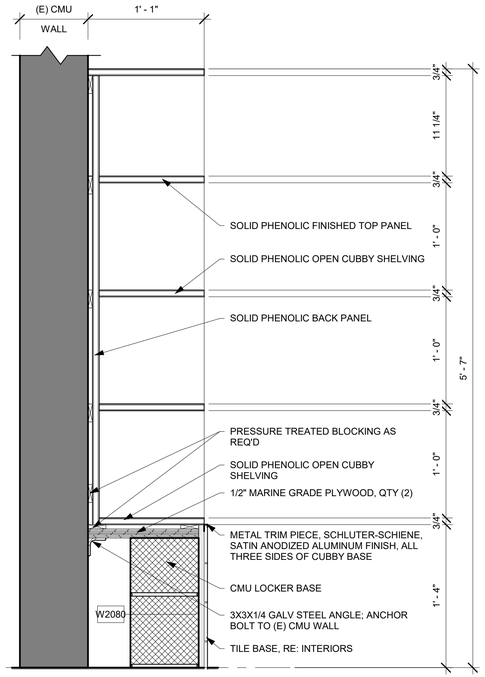
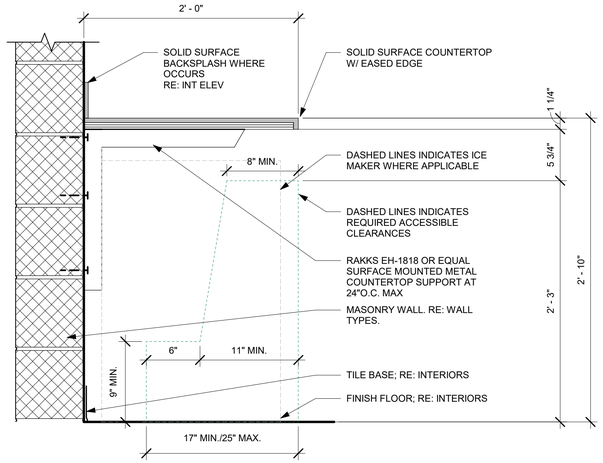
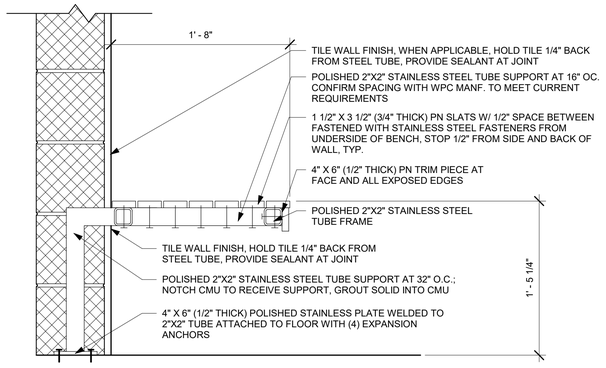


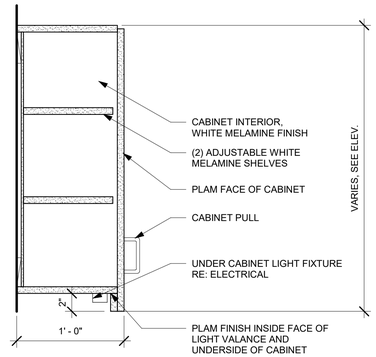
8 A630 DTL - CUBBIES @ GUARDS
1 1/2" = 1'-0"



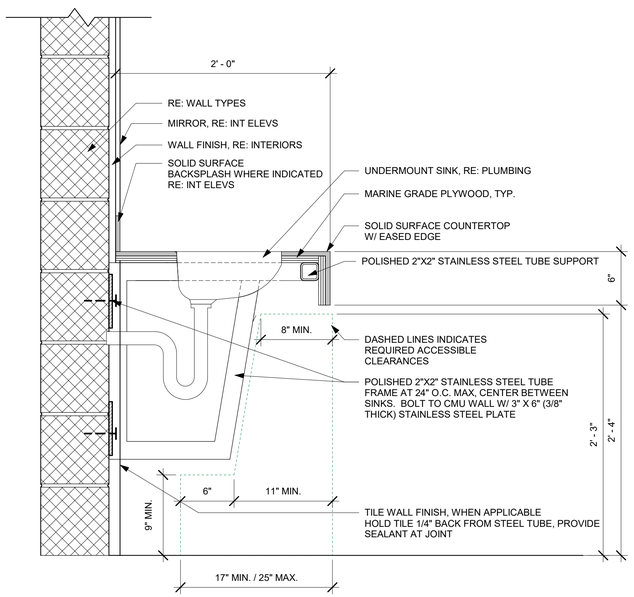
7 A630 DTL - MILLWORK - WORK TOP AT MASONRY WALL
1 1/2" = 1'-0"



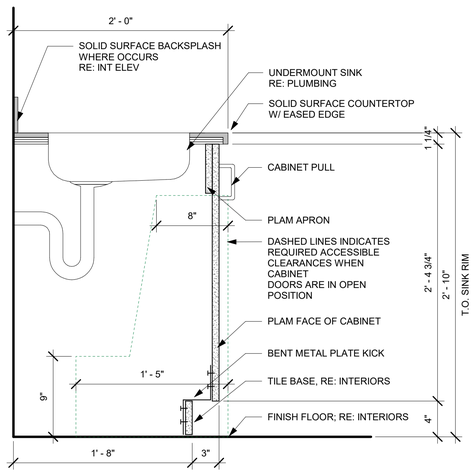
6 A630 DTL - MILLWORK - BENCH
1 1/2" = 1'-0"



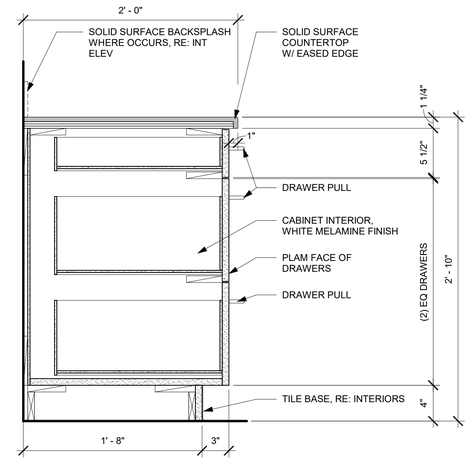
5 A630 DTL - MILLWORK - UPPER
1 1/2" = 1'-0"



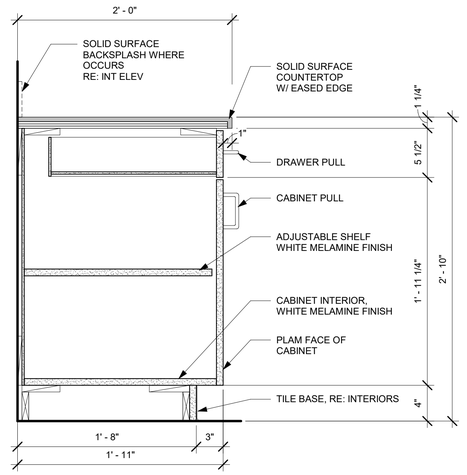
4 A630 DTL - MILLWORK - SINK W/ VALANCE AT CMU WALL
1 1/2" = 1'-0"



3 A630 DTL - MILLWORK - BASE W/ ATTACHED TOE KICK
1 1/2" = 1'-0"



2 A630 DTL - MILLWORK - BASE DRAWERS
1 1/2" = 1'-0"



1 A630 DTL - MILLWORK - BASE CAB W/ DRAWER
1 1/2" = 1'-0"

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MILLWORK DETAILS

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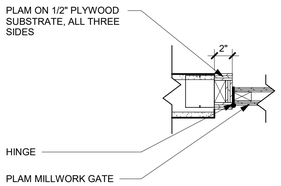
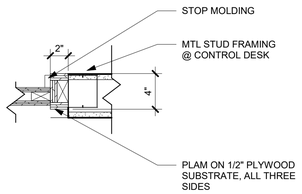
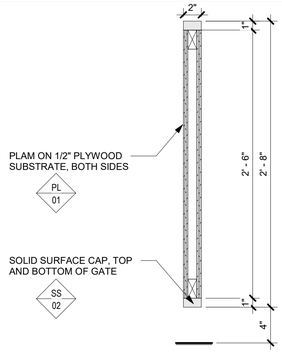
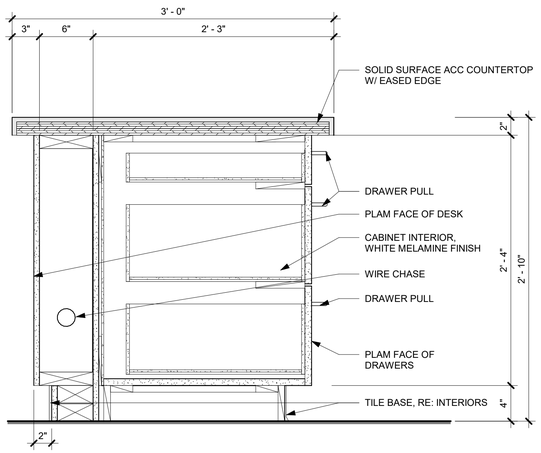




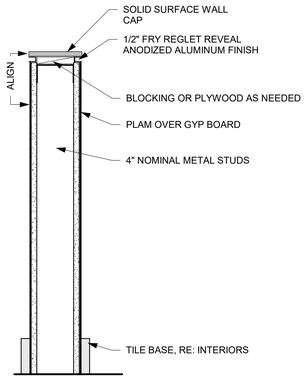


9 A631 DTL - MILLWORK - GATE PLAN
1 1/2" = 1'-0"

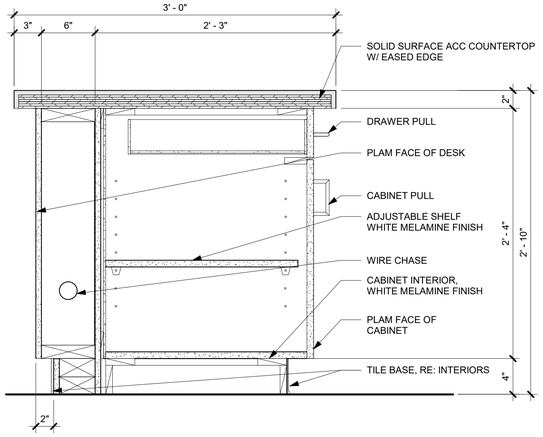
8 A631 DTL - MILLWORK - GATE SECTION
1 1/2" = 1'-0"



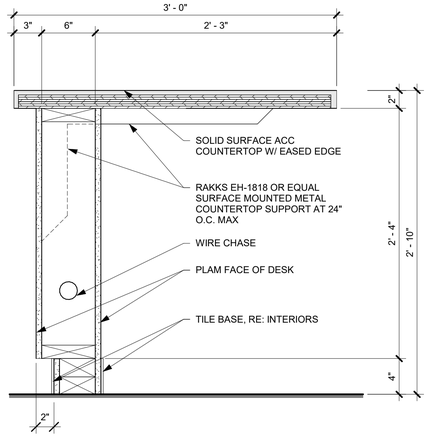
6 A631 DTL - MILLWORK - BASE CAB W/ 3 DRAWERS
1 1/2" = 1'-0"



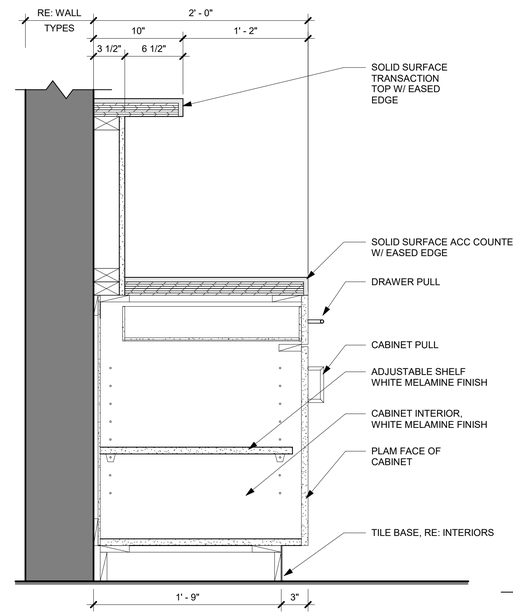
5 A631 DTL - MILLWORK - LOW WALL
1 1/2" = 1'-0"



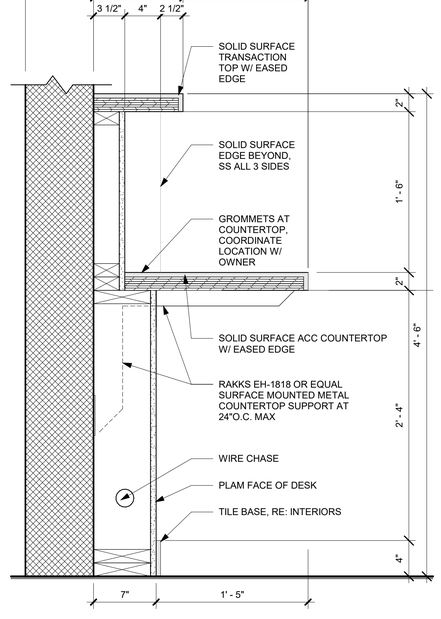
4 A631 DTL - MILLWORK - BASE CAB W/ DRAWER
1 1/2" = 1'-0"



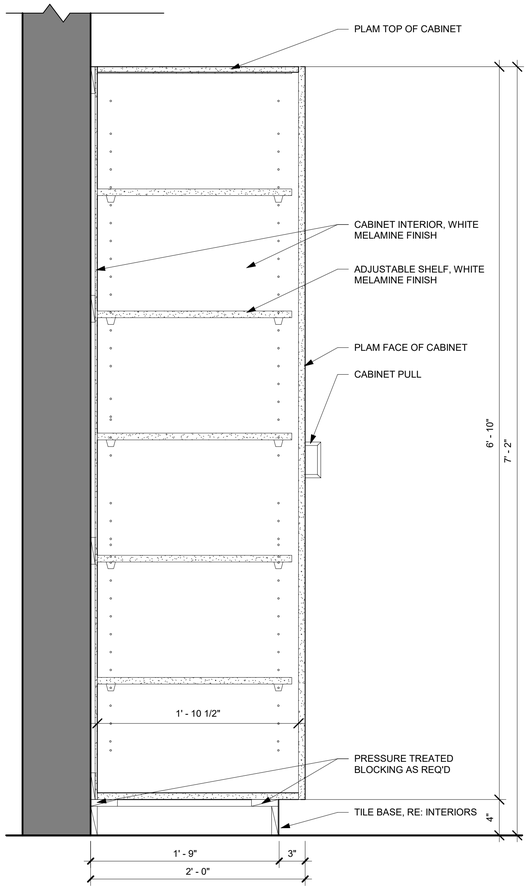
3 A631 DTL - MILLWORK - ADA COUNTER
1 1/2" = 1'-0"



7 A631 DTL - MILLWORK - BASE CAB AGAINST WALL
1 1/2" = 1'-0"



2 A631 DTL - MILLWORK - COUNTER AGAINST WALL
1 1/2" = 1'-0"



1 A631 DTL - MILLWORK - TALL CABINET
1 1/2" = 1'-0"

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Superior, CO 80027

STATE OF COLORADO
KEITH HAYES
203023
LICENSED ARCHITECT
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MILLWORK DETAILS - CONTROL DESK

A631

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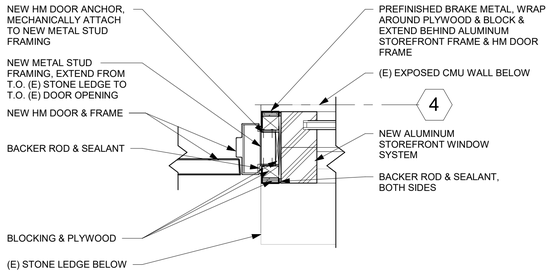
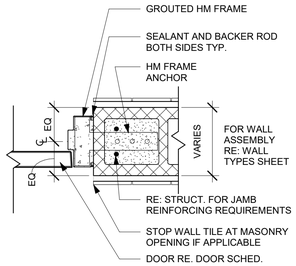
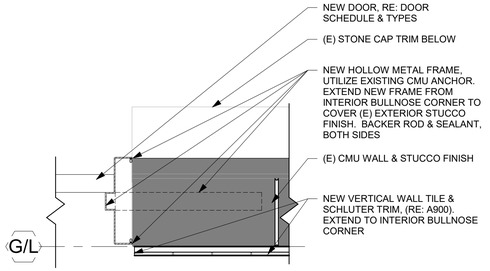


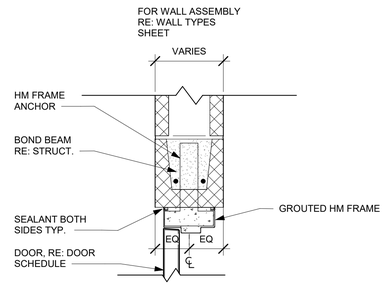
3 A700 DTL - EXT DOOR & STOREFRONT WINDOW
1 1/2" = 1'-0"



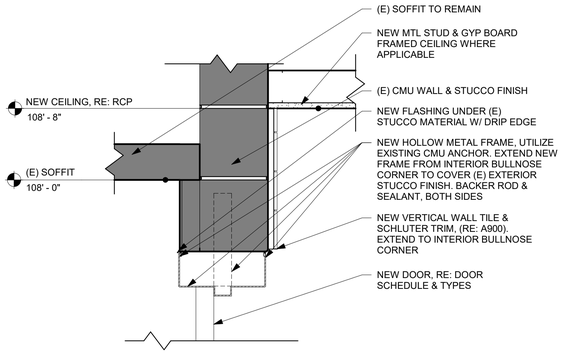
9 A700 INT. HM DOOR JAMB @ CMU
1 1/2" = 1'-0"



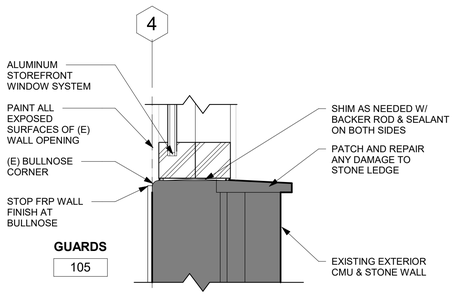
8 A700 DTL - EXT DOOR - HM JAMB
1 1/2" = 1'-0"



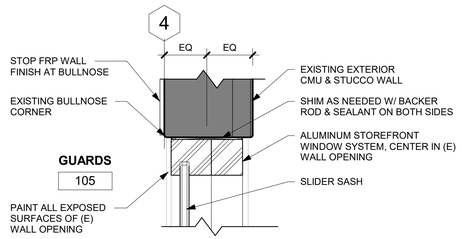
7 A700 INT. HM DOOR HEAD @ CMU
1 1/2" = 1'-0"



6 A700 DTL - EXT DOOR - HM HEAD
1 1/2" = 1'-0"



5 A700 DTL - WINDOW - SILL
1 1/2" = 1'-0"

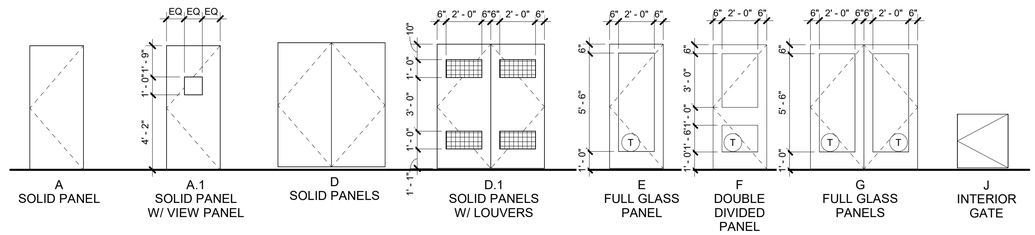


4 A700 DTL - WINDOW - HEAD/JAMB
1 1/2" = 1'-0"

Door Schedule												
		Door				Door	Frame					
		Size								Details		
Door Number	Room Name	Width	Height	Type	Material	Finish	Type	Material	Finish	Head	Jamb	Set Number
100A	LOBBY	5' - 8"	8' - 4"	G	AL	FF	RE: OPENING TYPES	AL	FF	N/A	N/A	AL02
100B	CONTROL	3' - 0"	8' - 0"	F	AL	FF	RE: OPENING TYPES	AL	FF	N/A	N/A	AL01
100C	CONTROL	3' - 0"	2' - 8"	J	PL01	PL01	7	PL01	PL01	N/A	9/A631	05
101	WOMENS	3' - 0"	7' - 0"	A	HM	PT03	2	HM	PT03	6/A700	8/A700	01
102	FAMILY CHANGING	3' - 0"	7' - 0"	A	HM	PT03	2	HM	PT03	6/A700	8/A700	03
103	JAN	3' - 0"	7' - 0"	A	HM	PT02	2	HM	PT02	7/A700	9/A700	04
104	STO	6' - 0"	7' - 0"	D	HM	PT03	2	HM	PT03	6/A700	8/A700	07
105	GUARDS	3' - 0"	7' - 0"	F	HM		2	HM		6/A700	8/A700	06
106	MENS	3' - 0"	7' - 0"	A	HM	PT03	2	HM	PT03	6/A700	8/A700	01
107A	POOL MECH	6' - 0"	7' - 0"	D.1	HM	PT03	2	HM	PT03	6/A700	8/A700	07
107B	POOL MECH	3' - 0"	7' - 0"	A	HM	PT03	2	HM	PT03	6/A700	8/A700	02
108	CHEM	3' - 0"	7' - 0"	A	HM	PT03	2	HM	PT03	6/A700	8/A700	02
109	ELEC	6' - 0"	7' - 0"	D	HM	PT03	2	HM	PT03	6/A700	8/A700	07
110	CHEM	3' - 0"	7' - 0"	A.1	HM	PT03	2	HM	PT03	6/A700	8/A700	02

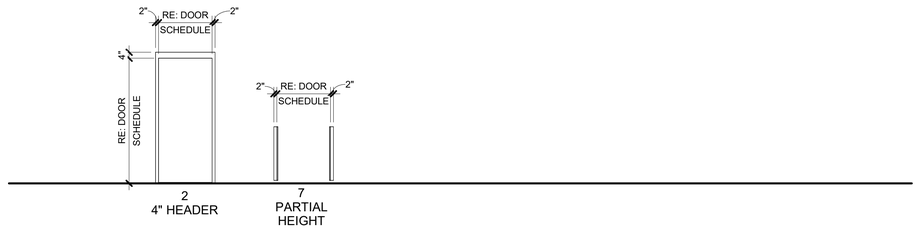
DOOR SCHEDULE ABBREVIATIONS
ALUM/AL: ALUMINUM
FACT-F: FACTORY FINISH
GHM: GALVANIZED HOLLOW METAL
HM: HOLLOW METAL
NA: NOT APPLICABLE
PT: PAINT
STL: STEEL
S-STL: STAINLESS STEEL
GL: GLAZING

DOOR TYPES LEGEND
(T) - TEMPERED GLAZING

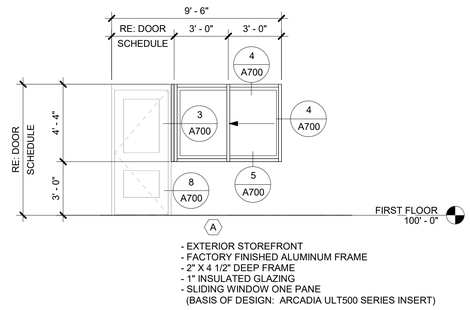


NOTE: ALL GLAZING IN DOORS TO BE TEMPERED U.O.N.

3 A700 DOOR TYPES
1/4" = 1'-0"

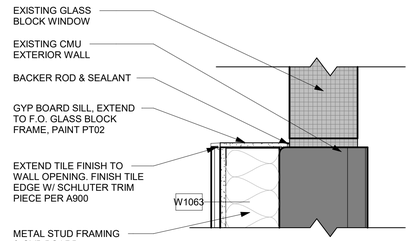


2 A700 FRAME TYPES
1/4" = 1'-0"



- EXTERIOR STOREFRONT
- FACTORY FINISHED ALUMINUM FRAME
- 2" X 4 1/2" DEEP FRAME
- 1" INSULATED GLAZING
- SLIDING WINDOW ONE PANE
(BASIS OF DESIGN: ARCADIA ULT500 SERIES INSERT)

1 A700 WINDOW TYPES
1/4" = 1'-0"



2 A700 DTL - WINDOW - (E) GLASS BLOCK
1 1/2" = 1'-0"

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DOOR SCHEDULES & TYPES, WINDOW TYPES

A700

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INTERIOR ABBREVIATIONS

(E)	EXISTING	R-TILE	RUBBER TILE
ACY	ACRYLIC PANEL	RUB-STFY	RUBBER SAFETY FLOOR
APC	ACRYLIC POLYMER COATING	SAT	SUSPENDED ACOUSTICAL TILE
AWP	ACOUSTICAL WALL PANEL	S-CONC	SEALED CONCRETE
BB	BULLETIN BOARD	SCP	SOLID COMPOSITE PARTITION
BN	BULLNOSE	SD-CONC	SAND FINISH CONCRETE
BO	BY OWNER	SDT	STATIC DISSIPATIVE TILE
BO	BOTTOM OF	SIM	SIMILAR
CC	CLEAR COAT	SLW	SLATWALL
CF	CEILING FINISH	SPH	SOLID PHENOLIC MATERIAL
CG	CORNER GUARDS	SPL	SOLID PLASTIC MATERIAL
CMT	CERAMIC MOSAIC TILE	SPWP	SOLID PLASTIC WALL PANEL
CWT-B	CERAMIC WALL TILE BASE	SS	SOLID SURFACE
CMU	CONCRETE MASONRY UNIT	S-STL	STAINLESS STEEL
CONC	CONCRETE	ST	STAIN
CPT	CARPET	ST-CONC	STAINED CONCRETE
CWT	CERAMIC WALL TILE	STG-FLR	STAGE FLOOR
CWT-BN	CERAMIC WALL TILE BULLNOSE	STN	STONE
DF	DRINKING FOUNTAIN	STN-B	STONE BASE
DIV	DIVISION	STN-T	STONE TILE
EGT	EPOXY GROUT	SW-CONC	SWIRLED CONCRETE
EPF	EPOXY POURED FLOORING	TB	TACK BOARD
EMAT	ENTRY MAT	TBD	TO BE DETERMINED
EX	EXPOSED	TECP	TECTUM PANEL
FF	FINISH FLOOR	TS	TRANSITION STRIP/REDUCER STRIP
FF	FINISH FACE	VCT	VINYL COMPOSITION TILE
FF&E	FURNITURE, FIXTURE AND EQUIPMENT	VERT/V	VERTICAL
FFIN	FACTORY FINISH	VIF	VERIFY IN FIELD
FRP	FIBER REINFORCED PANEL	VNR	VENEER
GL	GLASS	VPL	VENEER PLASTER
GLT	GLASS TILE	VRB	VENTED RUBBER BASE
GM-GYM	GLASS MESH GYPSUM UNIT	V-SAT	VINYL SUSPENDED ACOUSTICAL TILE
GMGU	GLASS MESH GYPSUM UNIT	VTF	VINYL TILE FLOOR
GPH	GRAPHIC	WB:	WALL BASE
GT	GROUT	WC	WALL COVERING
GYP BD	GYPSUM BOARD	WD	WOOD
GYB	GYPSUM BOARD	WDC	WOOD CEILING
MCB	METAL COVE BASE	WSF	WOOD STRIP FLOORING
MD	METAL DESK	WM	WALL MAT
OP	OPERABLE PARTITION	WPC	WOOD POLYMER COMPOSITE
OTS	OPEN TO STRUCTURE	WR-GYP	WATER RESISTANT GYPSUM BOARD
PATT	PATTERN	WS	WINDOW SHADE
PAV	PAVER TILE	WVP	WOOD VENEER PANELING
P-CONC	POLISHED CONCRETE		
PLAM	PLASTIC LAMINATE		
POR	PORCELAIN TILE		
PT	PAINT		
QT	QUARRY TILE		
QT-B	QUARRY TILE BASE		
RAF	RESILIENT ATHLETIC FLOORING		
RAIL	RAILING		
RB	RUBBER BASE		
RES	RESIN PANEL		
RF	RUBBER FLOOR		
R-NOSING	RUBBER STAIR NOSING		
RSCP	REINFORCED SOLID COMPOSITE PARTITIONS		
RT	RUBBER TREAD		

INTERIOR FINISH SYMBOLS

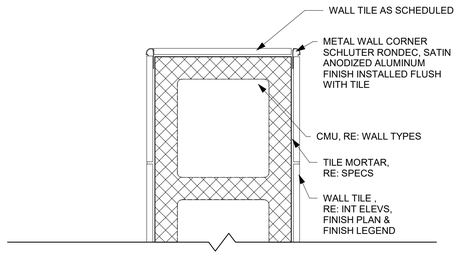
XX / 00 — PAINT FINISH INDICATOR, REFERENCE FINISH LEGEND

XX / 00 — FLOOR FINISH INDICATOR, RE: FINISH LEGEND

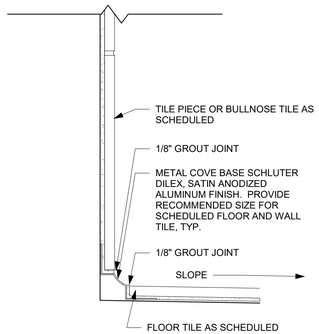
XX / 00 — FINISH INDICATOR, REFERENCE FINISH LEGEND

XX00 ◄► XX00 — FLOOR MATERIAL TRANSITION INDICATOR

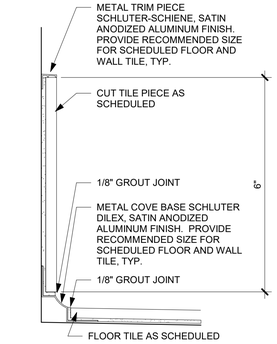
CORNER GUARD



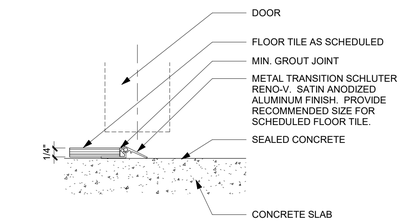
4 / A900 CMU TILE CORNER DETAIL
3" = 1'-0"



3 / A900 METAL COVE BASE W/ WALL TILE
6" = 1'-0"



2 / A900 METAL COVE BASE W/ TILE AND METAL TRIM
6" = 1'-0"



1 / A900 CERAMIC TILE TO CONCRETE FLOORING TRANSITION
6" = 1'-0"

GENERAL INTERIOR FINISH NOTES:

GENERAL:

1. REFER TO ARCHITECTURAL GENERAL NOTES.
2. REFERENCE ARCHITECTURAL PLANS FOR SUBSTRATE INFORMATION.
3. ALL REQUEST FOR SUBSTITUTIONS FOR SPECIFIED ITEMS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT PRIOR TO BIDDING WITH ALTERNATIVE PRODUCT INFORMATION AND SAMPLES WILL BE CONSIDERED ONLY IF DEEMED ACCEPTABLE WITH REGARD TO QUALITY, APPEARANCE AND FUNCTION. REFER TO DIVISION 01 OF SPECIFICATIONS, FOR SUBSTITUTIONS REQUIREMENTS.
4. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS. REFER TO SPECIFICATIONS.
5. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALL SUBMITTAL AND/OR MOCKUP GUIDELINES AND REQUIREMENTS.
6. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING.
7. FOR ITEMS NOT SPECIFIED, ASSUME COLOR SELECTIONS TO BE MADE FROM FULL RANGE OF MANUFACTURE'S STANDARDS INCLUDING PREMIUM COLORS.
8. REFER TO ALL SPECIFICATIONS & INTERIOR DRAWINGS (INCLUDING PLANS, ELEVATIONS, RCP, ENLARGED PLANS & DETAILS, ROOM FINISH SCHEDULE, AND INTERIOR FINISH LEGEND) FOR COMPLETE INTERIORS INFORMATION. REFER TO EXTERIOR ELEVATION SHEETS FOR EXTERIOR MATERIAL LEGEND.
9. WORK IS NEW, UNLESS NOTED EXISTING OR (E).

WALLS AND CEILING:

1. UON. ASSUME LEVEL 4 FINISH FOR ALL EXPOSED GYPSUM BOARD PARTITIONS, REFER TO DIV 09 OF SPECIFICATIONS.
2. FILL MASONRY WALLS BEFORE PAINTING. REFER TO DIV 09 OF SPECIFICATIONS.
3. FOR GYP BD REVEALS AND CONTROL JOINTS, REFER TO DIV 09 OF SPECIFICATIONS.
4. REFER TO DIV 09 OF SPECIFICATIONS FOR THE SPECIFIC PAINT SYSTEMS AND DIV 01 FOR VOC REQUIREMENTS.
5. CONTRACTOR TO PROVIDE 8 1/2"X11" PAINT SAMPLES OF ALL SPECIFIED PAINT COLORS IN ALL SHEENS INDICATED FOR APPROVAL BEFORE PROCEEDING WITH THE WORK. REFER TO DIV 09 OF SPECIFICATIONS.

WALLS AND CEILING CONT:

6. PAINT SHALL MATCH SPECIFIED MANUFACTURER COLORS INDICATED ON THE FINISH LEGEND.
7. HPC IS HIGH PERFORMANCE COATING. HPC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF HPC COLORS.
8. APC IS ACRYLIC POLYMER COATING. APC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF APC COLORS.
9. PAINT GLOSS LEVEL REFER TO DIV 09 OF SPECIFICATIONS, FOR PAINT SYSTEMS.
   a. PROVIDE LATEX SATIN/EGGSHELL FINISH AT TYPICAL WALLS.
   b. PROVIDE SEMI-GLOSS, HIGH PERFORMANCE COATING (HPC) IN POOL SUPPORT ROOMS & JANITOR'S CLOSETS.
   c. MECHANICAL, STORAGE: SEMI-GLOSS.
   d. TYPICAL WALL PAINT: LATEX SATIN FINISH
   e. TYPICAL GYP. BD. CEILINGS/SOFFITS: LATEX MATTE FINISH
   f. TYPICAL DOORS AND DOOR TRIMS: SEMI-GLOSS
10. FOR PAINT COLOR LOCATIONS SEE INTERIOR ELEVATIONS, FINISH PLANS AND RCPS.
    a. TYPICAL WALL PAINT COLOR PT02/HPC02, UON. RE: INTERIOR ELEVATIONS, DETAILS AND FINISH PLANS FOR CALL OUTS.
    b. ALL STORAGE ROOMS, JANITOR CLOSETS, AND MECHANICAL ROOMS THAT DO NOT HAVE PAINT COLORS NOTED, ARE TO BE PAINTED PT02.
    d. IN DRY AREAS CEILING AND SOFFIT COLOR IS PT01, UON. PAINT UNDERSIDE AND FACE OF SOFFIT AS NOTED.
    e. CEILINGS IN SHOWER AREA & FAMILY CHANGING AREA TO BE APC01.
    f. PAINT ALL OPEN STRUCTURE CEILING INCLUDING ALL COMPONENTS PT01 OR HPC01 UON.
11. ALL METAL GRILLES, PANELS OR PAINTABLE PROTRUSIONS SHALL BE PAINTED SEMI-GLOSS ENAMEL TO MATCH SURFACE ON WHICH THEY OCCUR, UON ON FINISH PLAN OR ELEVATIONS.
12. REFER TO INTERIOR ELEVATIONS & DETAILS FOR ADDITIONAL WALL FINISH INFORMATION.
13. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL SOFFIT & CEILING FINISH INFORMATION.
14. PROVIDE PLYWOOD BACKER WITH NO ADDED UREA FORMALDEHYDE FOR ALL WALL MOUNTED PANELS IN EACH IT ROOM.
15. CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE CORNERS, UON. PROVIDE CORNER GUARD PROFILE, FINISH, COLOR AND HEIGHT PER FINISH LEGEND. SUBMIT SHOP DRAWINGS TO CONFIRM LOCATIONS.

SUBFLOOR TREATMENTS:

1. VAPOR EMISSIONS TESTING REQUIRED BELOW ALL FINISH FLOORS EXCEPT SEALED CONCRETE. DO NOT INSTALL PRODUCTS UNLESS SLAB(S) MEET MANUFACTURE'S STANDARDS. REFER TO SPECIFICATIONS.

FLOOR, WALL AND BASE:

1. ALL EXPOSED CONCRETE FLOORS SHALL BE SEALED UON, REFER TO DIV 3 SPECIFICATIONS. EXCEPTION: POOL DECKS.
2. FLOAT FLOORS AS NECESSARY TO PROVIDE FLUSH TRANSITIONS BETWEEN FLOORING MATERIALS. REFER TO DIV 09 OF PROJECT SPECIFICATIONS.
3. CENTER ALL FLOORING TRANSITIONS DIRECTLY UNDER THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. IN AN OPENING WITHOUT A JAMB, RE: FINISH PLANS FOR TRANSITION LOCATION.
4. PROVIDE TRANSITION STRIPS AT ALL CHANGE OF FLOOR MATERIALS. WITH THE LOWEST PROFILE POSSIBLE.
   REFER TO DETAILS AND DIV 09 OF PROJECT SPECIFICATIONS.
   a. CONTRACTOR TO PROVIDE SAMPLE OF EACH PROPOSED RUBBER AND/OR METAL TRANSITION STRIP.
   b. ALL STRIPS ARE TO BE INSTALLED PER MANUFACTURES' RECOMMENDATIONS AT ALL FLOOR COVERING TRANSITIONS.

TILE:

1. COORDINATE PRE-INSTALLATION MEETING FOR PATTERNED WALL AND FLOOR TILE INCLUDING TILE INSTALLER & DESIGNER TO CONFIRM TILE LAYOUT.
2. METAL TRIM PIECES:
   a. METAL TRIM COVE BASE AT ALL TILE LOCATIONS, UON: SCHLUTER METAL TRIM - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
   b. INSIDE/OUTSIDE CORNERS OF WALL TILE - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
   c. TOP CAP SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.
3. REFER TO ENLARGED PLANS AND INTERIOR ELEVATIONS FOR EXTENT OF TILE & TILE HEIGHTS.
4. EPOXY GROUT TO BE INSTALLED AT ALL SHOWERS AND FAMILY CHANGING SHOWERS - FLOOR AND WALLS. FOR GROUT COLORS REFER TO FINISH LEGEND.

CASEWORK & MILLWORK:

1. CAULK COUNTERS WHERE THEY ABUT WALLS WITH CLEAR CAULK.
2. PROVIDE WALL BLOCKING FOR ALL CABINETRY AND SYSTEMS FURNITURE.
3. UNEXPOSED INTERIOR SURFACES OF ALL MILLWORK TO BE WHITE MELAMINE, UON REFER TO DIV 06 OF SPECIFICATIONS.

DOORS & FRAMES:

1. PAINT ALL METAL DOORS PT03, UON. PAINT ALL VISION PANELS, SIDE LIGHTS AND WINDOW FRAMES PT03, UON.
2. IN AREAS WHERE FRAMES ARE DIFFERENT COLORS ON EACH SIDE OF WALL, STOP COLOR SO THAT ONLY ONE COLOR IS VISIBLE WITH THE DOOR IN CLOSED POSITION.

SPECIALTIES:

1. PROVIDE BLOCKING AT ALL WALLS SCHEDULED FOR WALL HUNG EQUIPMENT, SYSTEMS FURNITURE, MARKER BOARD, TOILET ACCESSORIES, ETC. RE: PLANS, ELEVATIONS, EQUIPMENT & FURNITURE PLANS.
2. ALL FURNITURE IS [OF/OI] UON.

DEMOLITION NOTES:

1. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR PROJECT SCOPE.
2. REMOVE EXISTING ARTWORK, SIGNAGE, AND WALL MOUNTED ACCESSORIES WITHIN THE PROJECT SCOPE AND RETURN TO OWNER FOR STORAGE PRIOR TO DEMOLITION.
3. REMOVE COMPLETELY FROM THE JOBSITE ALL MATERIALS SPECIFIED FOR DEMOLITION AND NOT NOTED TO BE RETURNED TO OWNER.
4. REPLACE ANY ITEM DEMOLISHED OR DAMAGED BY DEMOLITION AND NOT SPECIFIED WITH A LIKE ITEM AS APPROVED BY OWNER AT NO ADDITIONAL COST.
5. PROTECT ALL EXISTING FLOOR, WALL, DOOR AND CEILING FINISHES TO REMAIN. REPAIR ANY DAMAGE AS A RESULT OF DEMOLITION OR CONSTRUCTION.
6. REMOVE EXISTING FLOORING, ADHESIVE AND MASTIC AT ALL EXISTING FLOORS SCHEDULED FOR DEMOLITION. PATCH AND PREP SUBFLOOR TO MEET MANUFACTURE'S REQUIREMENTS FOR NEW FLOORING MATERIALS. FLOAT SUBFLOOR AS NECESSARY TO ALIGN FINISHED SURFACE BETWEEN NEW FLOORING AND EXISTING TO REMAIN.
7. CAREFULLY REMOVE AND STORE ALL WALL MOUNTED EQUIPMENT PRIOR TO CONSTRUCTION, UON.

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KEITH HAYES
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LICENSED ARCHITECT
3/23/26

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GENERAL FINISH NOTES & DETAILS

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LEGEND - INTERIOR FINISH

TAG	MANUFACTURER	PRODUCT LINE	STYLE	COLOR	SIZE	NOTES
Acrylic Polymer Coating						
APC01	RE: Specifications	-	-	To match PT color of same number.	-	
Ceramic Wall Tile						
CWT01	DALTILE	COLOR WHEEL LINEAR	SEMI-GLOSS	ARTIC WHITE 0190	4"X12"	FIELD TILE
CWT02	DALTILE	COLOR WHEEL LINEAR	SEMI-GLOSS	EMERALD 0115	4"X12"	ACCENT IN FAMILY CHANGING ROOM
CWT03	DALTILE	COLOR WHEEL LINEAR	SEMI-GLOSS	OCEAN BLUE 1049	4"X12"	ACCENT TILE IN WOMEN'S LOCKER ROOM
CWT04	DALTILE	COLOR WHEEL LINEAR	SEMI-GLOSS	SEA BREEZE 1174	4"X12"	ACCENT TILE IN MEN'S LOCKER ROOM
CWT05	DALTILE	MYTHOLOGY	UNDULATED	AURA MY95	4"X12"	ACCENT IN GUARDS ROOM
Concrete						
CONC02	RE: Specifications	-	Low Gloss Clear Sealer	-	-	
CONC03	RE: Specifications	-	Pool Deck Swirl Broom Finish	-	-	
Fiberglass Reinforced Panels						
FRP01	Marlite	SYMMETRIX W/ SANI-COAT	SUBWAY	SS100	4' x 8'	
FRP02	Marlite	STANDARD FRP	SMOOTH	S100G WHITE	4' x 8'	
Grout						
GT01	LATICRETE	-	-	95 MINK	-	
High Performance Coatings						
HPC02	RE: Specifications	-	-	To match PT color of same number.	-	
Paint						
PT01	Sherwin Williams	PROMAR 200	SEMI-GLOSS	ORIGAMI WHITE SW7636	-	
PT02	Sherwin Williams	PROMAR 200	SEMI-GLOSS	CITY LOFT SW7631	-	
PT03	Sherwin Williams	PROMAR 200	-	TO MATCH EXISTING EXTERIOR COLOR	-	
Phenolic Core Toilet Compartments						
PNC01	BOBRICK	DURALINE	SOLID COLOR CGL	PHANTOM ECRU 8212-SC-60SC	-	CEILING-MOUNTED PARTITIONS IN WOMENS, WALL-HUNG PARTITIONS IN MENS
Phenolic Lumber						
PN01	TANGENT POLYTUF	DIMENSIONAL NEUTRALS		SAND	-	LOCKER ROOM BENCHES
Plastic Laminates						
PL01	FORMICA	ANTIMICROBIAL	WOOD BRUSH	NATURAL ASH 8843A	-	
PL02	FORMICA	ANTIMICROBIAL	MATTE	FOG 961A	-	
Porcelain Tile						
POR01	DALTILE	KEYSTONES	-	DESERT GRAY D014 / DESERT GRAY SPECKLE BLEND D200 / WATERFALL D169 / SPA D148	1" X 1"	25% DESERT GRAY, 25% DESERT GRAY SPECKLE BLEND, 25% WATERFALL, 25% SPA
POR02	DALTILE	KEYSTONES	-	DESERT GRAY D014 / DESERT GRAY SPECKLE BLEND D200 / LIME SHERBERT D619 / EMERALD GREEN D116	1" X 1"	25% DESERT GRAY, 25% DESERT GRAY SPECKLE BLEND, 25% LIME SHERBERT, 25% EMERALD GREEN
POR03	DALTILE	KEYSTONES	-	DESERT GRAY D014 / DESERT GRAY SPECKLE BLEND D200 / NAVY D189 / OCEAN BLUE D159	1" X 1"	25% DESERT GRAY, 25% DESERT GRAY SPECKLE BLEND, 25% NAVY D189, 25% OCEAN BLUE
POR04	DALTILE	KEYSTONES	-	DESERT GRAY D014 / DESERT GRAY SPECKLE BLEND D200 / NAUTICAL BLUE D621 / WATERFALL D169	1" X 1"	25% DESERT GRAY, 25% DESERT GRAY SPECKLE BLEND, 25% NAUTICAL BLUE, 25% WATERFALL
Solid Surface						
SS01	CORIAN	SOLID SURFACE	-	ARTISTA GRAY	-	
SS02	CORIAN	SOLID SURFACE	-	CARRARA LINO	-	

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FINISH LEGEND

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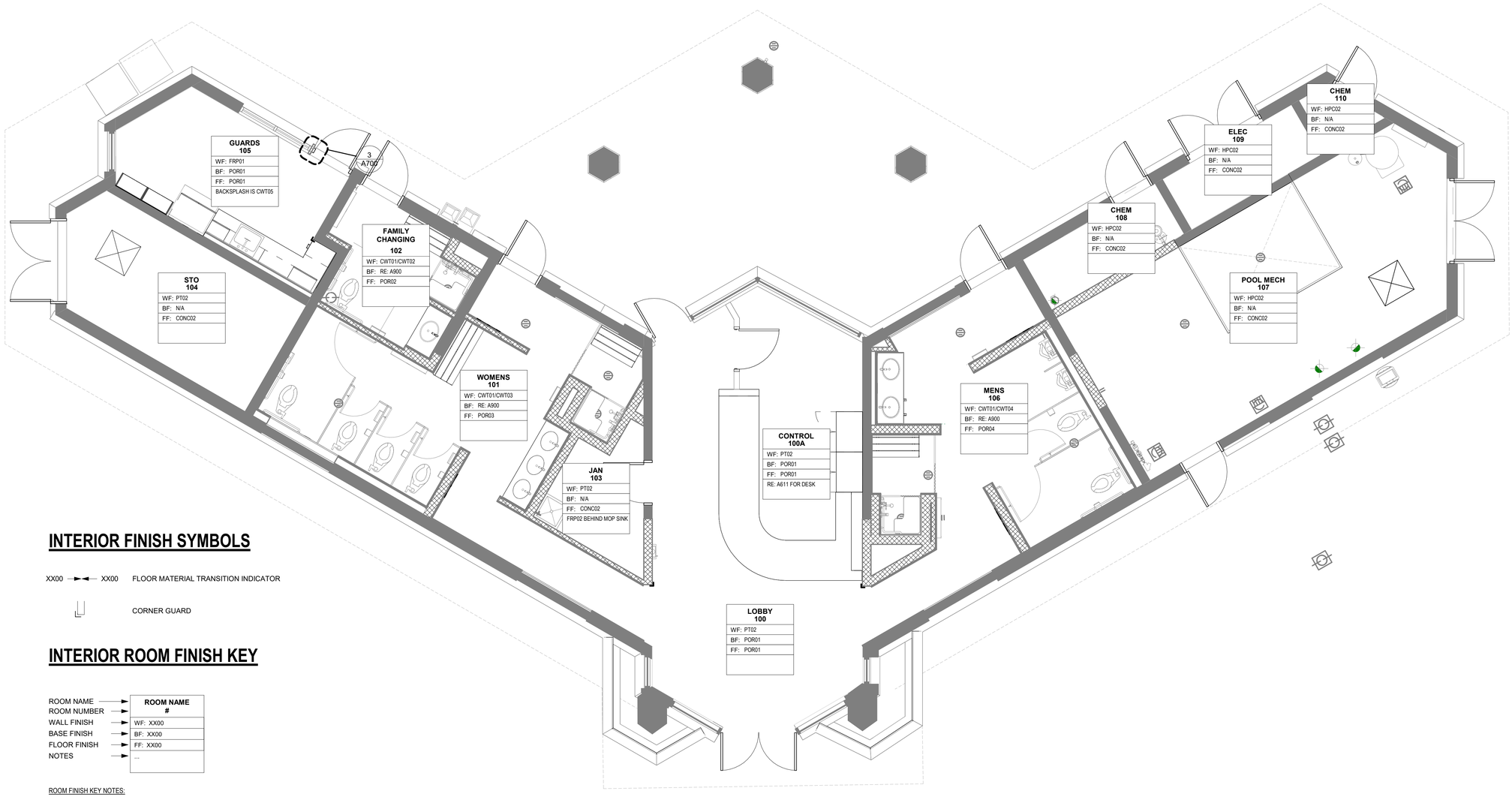

INTERIOR FINISH SYMBOLS

XX00 ►◄ XX00 FLOOR MATERIAL TRANSITION INDICATOR

CORNER GUARD

INTERIOR ROOM FINISH KEY

	ROOM NAME #
ROOM NAME →	
ROOM NUMBER →	
WALL FINISH →	WF: XX00
BASE FINISH →	BF: XX00
FLOOR FINISH →	FF: XX00
NOTES →	...

ROOM FINISH KEY NOTES:

1. 1. THE ROOM FINISH KEY IS USED TO CALL OUT THE WALL FINISH (WF), WALL BASE FINISH (BF), AND FLOOR FINISH (FF) IN A GIVEN ROOM WHERE THE TAG CAN BE FOUND ON THE FINISH PLANS. REFER TO INTERIOR ABBREVIATIONS AND FINISH LEGEND FOR MATERIAL INFORMATION.
2. REFER TO INTERIOR ELEVATIONS, FINISH PLANS, AND RCPS FOR ACCENT PAINT COLORS.
3. WHERE 'VARIES' IS CALLED OUT FOR THE WALL FINISH, ASSUME THAT ACCENT WALL(S) ARE CALLED OUT WITH A SYMBOL, AS INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.
4. IF MULTIPLE FINISHES ARE LISTED ON THE ROOM FINISH KEY, REFER TO THE INTERIOR ELEVATIONS FOR WALL PATTERNS OR FINISH PLANS FOR FLOORING PATTERNS AS INDICATED.
5. IF THERE IS A CONFLICT BETWEEN DRAWINGS & THE FINISH KEY, CONTACT THE ARCHITECT FOR CLARIFICATION.

1 / A911 FIRST FLOOR - FINISH PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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OVERAL FIRST FLOOR FINISH PLAN

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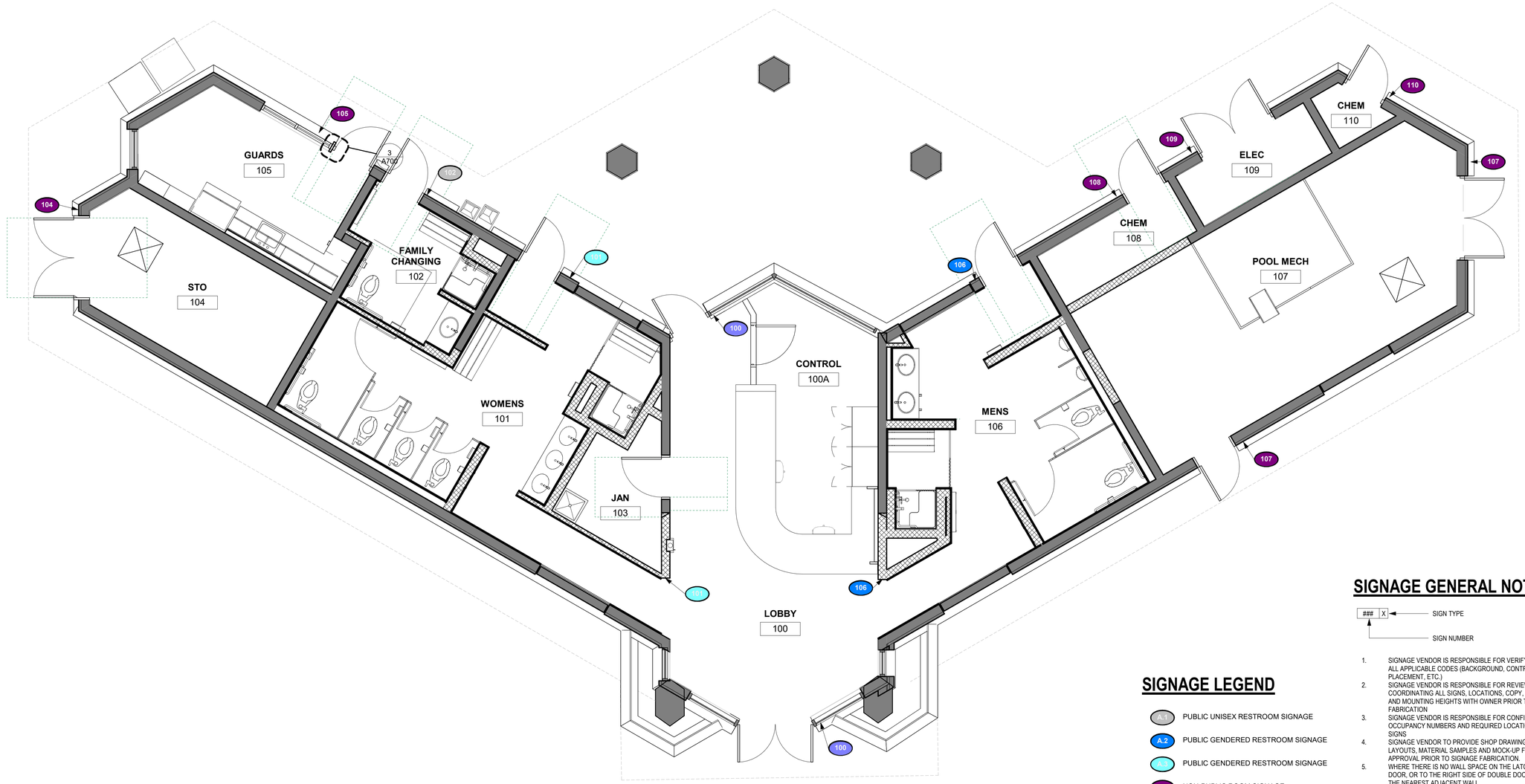

SIGNAGE LEGEND

- A.1 — PUBLIC UNISEX RESTROOM SIGNAGE
- A.2 — PUBLIC GENDERED RESTROOM SIGNAGE
- A.3 — PUBLIC GENDERED RESTROOM SIGNAGE
- B — NON-PUBLIC ROOM SIGNAGE
- C — EXIT SIGNAGE

SIGNAGE GENERAL NOTES

X — SIGN TYPE / SIGN NUMBER

1. SIGNAGE VENDOR IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH ALL APPLICABLE CODES (BACKGROUND, CONTRAST, LETTER SIZE AND PLACEMENT, ETC.)
2. SIGNAGE VENDOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL SIGNS, LOCATIONS, COPY, MESSAGE SCHEDULE AND MOUNTING HEIGHTS WITH OWNER PRIOR TO SIGNAGE FABRICATION
3. SIGNAGE VENDOR IS RESPONSIBLE FOR CONFIRMING ALL MAXIMUM OCCUPANCY NUMBERS AND REQUIRED LOCATIONS OF ALL OCCUPANCY SIGNS
4. SIGNAGE VENDOR TO PROVIDE SHOP DRAWINGS, SIGN AND MESSAGE LAYOUTS, MATERIAL SAMPLES AND MOCK-UP FOR ALL SIGNS FOR APPROVAL PRIOR TO SIGNAGE FABRICATION.
5. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL.
6. SIGNAGE VENDOR TO FIELD VERIFY ALL SIGN INSTALLATION LOCATIONS PRIOR TO SIGN FABRICATION AND INSTALLATION. SIGNS MUST BE INSTALLED IN COMPLIANCE WITH ALL ADA AND CODE REQUIREMENTS.
7. SIGNAGE VENDOR TO INCLUDE ARTWORK AND GRAPHIC SET UP AND TEMPLATE CREATION IN PRICING.
8. MOUNT SIGNS WITH VHB TAPE UNLESS OTHERWISE NOTED. WHERE SIGN IS MOUNTED ON GLASS PROVIDE 1/8" OPAQUE BACKER PANEL ON THE OPPOSITE SIDE OF GLASS.
9. FINAL SIGN ROOM NUMBERS AND NAMES MAY DIFFER FROM ARCHITECTURAL PLAN NUMBERS AND NAMES. SIGNAGE VENDOR TO COORDINATE WITH OWNER PRIOR TO SIGNAGE FABRICATION.

1 / A951 FIRST FLOOR SIGNAGE PLAN

1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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OVERALL FIRST FLOOR SIGNAGE PLAN

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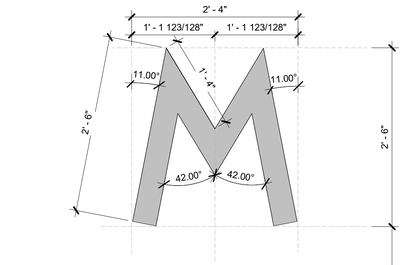
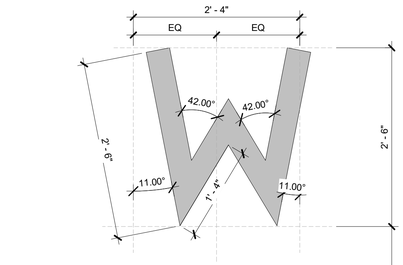


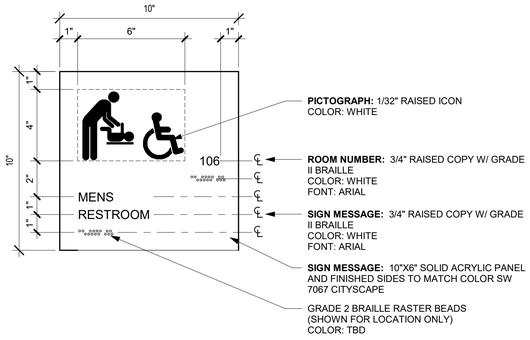
SUBSTRATE: 1/2" ACRYLIC
FINISH: PAINT ALL SIDES WITH 1 SHOT ENAMEL PAINT
ADHERE TO TILE W/ 1/4" STANDOFFS

SIGNAGE ELEV - MENS WAYFINDING



SUBSTRATE: 1/2" ACRYLIC
FINISH: PAINT ALL SIDES WITH 1 SHOT ENAMEL PAINT
ADHERE TO TILE W/ 1/4" STANDOFFS

SIGNAGE ELEV - WOMENS WAYFINDING



PICTOGRAPH: 1/32" RAISED ICON
COLOR: WHITE

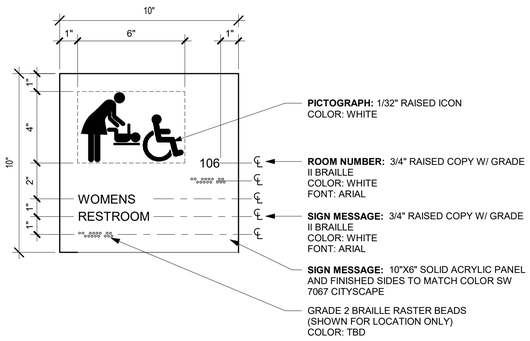
ROOM NUMBER: 3/4" RAISED COPY W/ GRADE II BRAILLE
COLOR: WHITE
FONT: ARIAL

SIGN MESSAGE: 3/4" RAISED COPY W/ GRADE II BRAILLE
COLOR: WHITE
FONT: ARIAL

SIGN MESSAGE: 10"X6" SOLID ACRYLIC PANEL AND FINISHED SIDES TO MATCH COLOR SW 7067 CITYSCAPE

GRADE 2 BRAILLE RASTER BEADS (SHOWN FOR LOCATION ONLY)
COLOR: TBD

SIGN TYPE A.2 - PUBLIC RESTROOM SIGNAGE



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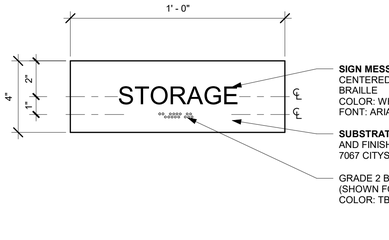
COLOR: TBD

SIGN TYPE A.3 - PUBLIC RESTROOM SIGNAGE

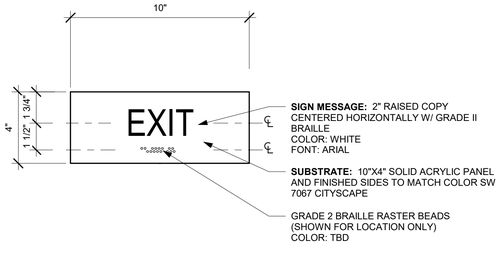


SIGN MESSAGE: 2" RAISED COPY CENTERED HORIZONTALLY W/ GRADE II BRAILLE
COLOR: WHITE
FONT: ARIAL

SUBSTRATE: 10"X4" SOLID ACRYLIC PANEL AND FINISHED SIDES TO MATCH COLOR SW 7067 CITYSCAPE

GRADE 2 BRAILLE RASTER BEADS (SHOWN FOR LOCATION ONLY)
COLOR: TBD

SIGN TYPE B - NON-PUBLIC ROOM SIGNAGE

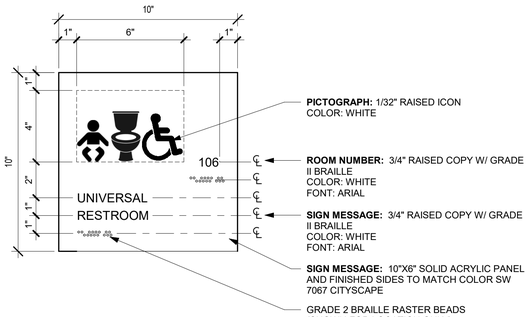


SIGN MESSAGE: 2" RAISED COPY CENTERED HORIZONTALLY W/ GRADE II BRAILLE
COLOR: WHITE
FONT: ARIAL

SUBSTRATE: 10"X4" SOLID ACRYLIC PANEL AND FINISHED SIDES TO MATCH COLOR SW 7067 CITYSCAPE

GRADE 2 BRAILLE RASTER BEADS (SHOWN FOR LOCATION ONLY)
COLOR: TBD

SIGN TYPE C - EXIT SIGNAGE



PICTOGRAPH: 1/32" RAISED ICON
COLOR: WHITE

ROOM NUMBER: 3/4" RAISED COPY W/ GRADE II BRAILLE
COLOR: WHITE
FONT: ARIAL

SIGN MESSAGE: 3/4" RAISED COPY W/ GRADE II BRAILLE
COLOR: WHITE
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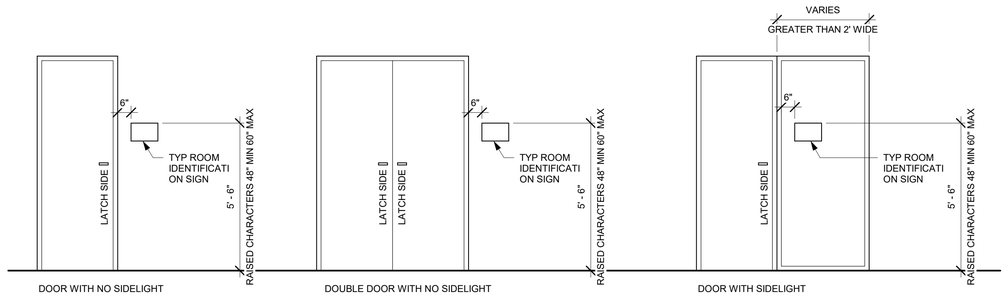
SIGN MESSAGE: 10"X6" SOLID ACRYLIC PANEL AND FINISHED SIDES TO MATCH COLOR SW 7067 CITYSCAPE

GRADE 2 BRAILLE RASTER BEADS (SHOWN FOR LOCATION ONLY)
COLOR: TBD

SIGN TYPE A.1 - PUBLIC RESTROOM SIGNAGE



1 A970 SIGN MOUNTING DIAGRAM
3/8" = 1'-0"

SIGNAGE GENERAL NOTES

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— SIGN NUMBER

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SIGNAGE DRAWINGS AND DETAILS

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STRUCTURAL GENERAL NOTES

DESIGN LOADS:

1. DESIGN LOADS: 2018 INTERNATIONAL BUILDING CODE WITH TOWN OF SUPERIOR AMENDMENTS, ASCE 7-16
2. RISK CATEGORY: II STANDARD
3. ROOFS:
   - A. ROOF DEAD LOAD 15 PSF
   - B. ROOF LIVE LOAD 20 PSF
   - C. GROUND SNOW LOAD, Pg 30 PSF
   - D. FLAT-ROOF SNOW LOAD, Pf 30 PSF
   - E. SNOW EXPOSURE FACTOR, Ce 1.0
   - F. SNOW IMPORTANCE FACTOR, Is 1.0
   - G. THERMAL FACTOR, Ct 1.0
4. FLOOR LIVE LOADS:

OCCUPANCY OR USE	UNIFORMLY DISTRIBUTED (PSF)	CONCENTRATED LOAD (LBS)	LIVE LOAD REDUCTION
MECHANICAL POOL ROOM	125	2,000	YES

5. WIND:
   - A. BASIC DESIGN WIND SPEED, V, (3-SECOND GUST) 154 MPH
   - B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD}, (3-SECOND GUST) 110 MPH
   - C. INTERNAL PRESSURE COEFFICIENT, GC_{pi} ±0.18 (ENCLOSED)
   - D. WIND EXPOSURE C
   - E. GROUND ELEVATION FACTOR, K_e 0.82
6. SEISMIC:
   - A. SPECTRAL RESPONSE ACCELERATION PARAMETERS
     1. SHORT PERIOD
        - a. S_S 0.225g
        - b. S_{DS} 0.24g
     2. ONE SECOND
        - a. S_1 0.06g
        - b. S_{D1} 0.096g
   - B. SOILS SITE CLASS D
   - C. SEISMIC IMPORTANCE FACTOR, Ie 1.0
   - D. SEISMIC DESIGN CATEGORY B

FOUNDATION DESIGN:

1. REFER TO SOILS REPORT NO. DN52801-125 BY CTL THOMPSON, DATED 02/04/2026.
2. GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITIONS AND TYPES DURING EXCAVATION AND PRIOR TO PLACEMENT OF FORMWORK OR CONCRETE.
3. FROST DEPTH SHALL BE 3'-0 MINIMUM BELOW EXTERIOR GRADE.

FOOTINGS:

1. DESIGN OF FOOTING IS BASED ON
   - A. MAXIMUM END BEARING PRESSURE 2,000 PSF
2. BEAR ON THE NATURAL UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. EXTERIOR FOOTINGS SHALL BEAR BELOW FROST DEPTH.

EARTH RETAINING STRUCTURES:

1. EARTH EQUIVALENT FLUID LATERAL PRESSURE:
   - A. WALLS RESTRAINED AT TOP (AT REST) 85 PCF
   - B. CANTILEVERED WALLS (ACTIVE) 65 PCF
   - C. PASSIVE RESISTING 250 PCF
2. COEFFICIENT OF SLIDING FRICTION 0.35

REINFORCED CONCRETE:

1. DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2. CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE."
3. STRUCTURAL CONCRETE SHALL HAVE THE PROPERTIES INDICATED IN THE CONCRETE MIX TABLE.
4. CONCRETE MIX TABLE NOTES:
   - A. CONCRETE MIX SUBMITTAL SHALL INCLUDE A SINGLE PAGE LIST OF MIXES, IN TABULAR FORMAT, WITH KEY MIX REQUIREMENTS.
   - B. N/R: NO REQUIREMENT, NO STRUCTURAL REQUIREMENTS.
   - C. SLUMP:
     1. VALUES INDICATED ARE SUGGESTED BASED ON USE AND TYPICAL PLACEMENT METHODS. SUPPLIER MAY ADJUST SLUMP AS NECESSARY FOR FIELD CONDITIONS AND INSTALLATION METHOD USED.
     2. CONCRETE SUPPLIER TO PROVIDE TARGET SLUMP ON BATCH TICKETS FOR TESTING AGENCY QUALITY CONTROL.
   - D. CEMENT SHALL CONFORM TO ASTM C150, ASTM C595, OR ASTM C1157. ADDITIONAL REQUIREMENTS AS NOTED IN THE MIX TABLE:
     1. II = ASTM C150 TYPE II
     2. V = ASTM C150 TYPE V
     3. MS = ASTM C595 OR ASTM C1157 TYPES WITH (MS) DESIGNATION
     4. HS = ASTM C595 OR ASTM C1157 TYPES WITH (HS) DESIGNATION
   - E. AIR CONTENT:
     1. N/P: AIR ENTRAINING ADMIXTURES NOT PERMITTED, ENTRAPPED AIR ONLY
     2. N/R: NO REQUIREMENT, NO STRUCTURAL AIR CONTENT REQUIREMENTS
   - F. CHLORIDE ION: MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
   - G. ADMIXTURES/COMMENTS
     1. SCM: LIMITS ON MAXIMUM SCM CONTENT PER ACI 318 TABLE 26.4.2.2(b)
     2. AAR: PROVIDE DOCUMENTATION THAT AGGREGATES ARE NOT ALKALI-SILICA REACTIVE OR ALKALI-CARBONATE REACTIVE PER ASTM C1778.
     3. CONCRETE COVER: INCREASE MINIMUM CONCRETE COVER TO 2" FOR WALLS AND TOP OF SLABS, AND 2-1/2" FOR ALL OTHERS UNLESS DETAILED OTHERWISE.
     4. SHRINKAGE: MIXES NOTED AS "SHRINKAGE XX%" SHALL BE LIMITED TO A MAXIMUM DRYING SHRINKAGE STRAIN (0.05% UNLESS NOTED OTHERWISE) AT 28 DAYS (500 MICROSTRAIN) AS MEASURED BY ASTM C157. SHRINKAGE TEST RESULTS TO BE INCLUDED WITH MIX DESIGN SUBMITTAL.
   - H. GENERAL CONTRACTOR TO COORDINATE CONCRETE MOISTURE LEVEL AND ANTICIPATED MOISTURE MITIGATION PROCEDURES WITH CONCRETE SUPPLIERMIX DESIGNER AND OTHER AFFECTED SUBCONTRACTORS (INCLUDING BUT NOT LIMITED TO FLOORING) TO ADDRESS ALL POTENTIAL SCHEDULE AND INSTALLATION CONFLICTS.
5. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
7. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT BARS SHOWN TO BE FIELD-BENT SHALL BE ASTM A706, GRADE 60.
8. EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM A775 (STRAIGHT BARS) AND ASTM A934 (PRE-FABRICATED BARS).
9. ZINC COATED (GALVANIZED) REINFORCING BARS SHALL CONFORM TO ASTM A767.
10. BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
11. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, LAP BARS PER THE CONCRETE LAP SPLICE SCHEDULE.
12. AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS FOR EACH LAYER OF REINFORCEMENT.
13. TRIM OPENINGS IN WALLS AND STRUCTURAL CONCRETE SLABS WITH (2) #5 FOR EACH LAYER OF REINFORCEMENT, FULLY DEVELOPED BY EXTENSION OR HOOK.
14. IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.
15. FORM INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL DRAWINGS.
16. EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
    - A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
    - B. EXPOSED TO EARTH OR WEATHER:
      1. #6 THROUGH #18 BARS 2"
      2. #5 BAR, W31 OR D31 WIRE, AND SMALLER 1-1/2"
    - C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      1. SLABS, WALLS , JOISTS: #11 BARS AND SMALLER 3/4"
      2. BEAMS AND COLUMNS:
         - a. PRIMARY REINFORCEMENT 1-1/2"
         - b. STIRRUPS, TIES, SPIRALS 1-1/2"
17. FIBER ADMIXTURE SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS, TYPE III 4.1.3, PERFORMANCE LEVEL ONE, PER ASTM C1116
18. ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING TEMPLATES.

CONCRETE MIX TABLE

INTENDED USE	Freeze Exposure	Sulfate Exposure	Water Exposure	Corrosion Exposure	EXPOSURE CLASS	COMPRESSIVE STRENGTH, f'c PSI	TESTING AGE, DAYS	CONCRETE WEIGHT	CEMENT TYPE	MAX W/CM RATIO	MAXIMUM AGGREGATE SIZE	SLUMP, INCHES (+/- 1")	AIR CONTENT PERCENT (+/- 1.5%)	MAXIMUM CHLORIDE ION, (Cl-)	MIX NOTES/ COMMENTS
DRILLED PIERS	0	0	0	1	F0-S0-W0-C1	4000	56	NW	N/R	N/R	1"	7"	N/R	0.30%	
GRADE BEAMS	2	0	1	1	F2-S0-W1-C1	4500	56	NW	N/R	0.45	3/4"	N/R	6%	0.30%	AAR
SLAB ON GRADE - EXTERIOR	3	0	1	0	F3-S0-W1-C0	5000	28	NW	N/R	0.40	3/4"	N/R	6%	1.00%	SCM; AAR
STOOP	3	0	1	2	F3-S0-W1-C2	5000	56	NW	N/R	0.40	3/4"	N/R	6%	0.15%	SCM; CONCRETE COVER; AAR
FORMED STRUCTURAL SLAB	0	0	0	0	F0-S0-W0-C0	5000	28	NW	N/R	N/R	3/4"	N/R	N/R	1.00%	

POST-INSTALLED ANCHORS

1. ALL CAST-IN-PLACE ANCHORS DESIGNED IN ACCORDANCE WITH ACI 318.
2. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE IF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
3. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. EXISTING REINFORCING BARS SHALL NOT BE CUT UNLESS APPROVED BY THE ENGINEER OF RECORD.
4. ALL ANCHORS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT DEPTH AS INDICATED ON THE DRAWINGS. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MPII.
5. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. REGISTRATION MUST BE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
6. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO THE ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE ENGINEER OF RECORD/ SPECIAL INSPECTOR AS REQUESTED.
7. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI ([ACI 318-11 D 9.2.2], [ACI 318-14 17.8.2.2], [ACI 318-19 17.2.3]). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
8. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS ([ACI 318-11 D 2.2], [ACI 318-14 17.1.2], [ACI 318-19 17.2.2])
9. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN DRY HOLES THAT HAVE BEEN DRILLED, CLEANED, AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION AND THE RESPECTIVE ICC-ES EVALUATION REPORTS.
10. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC TABLE 1705.3, NOTE B).

CONCRETE POST-INSTALLED ANCHORS			
ANCHOR TYPE	DEWALT	HILTI	SIMPSON
EXPANSION	POWER-STUD+ SD2 (ICC ESR-2502)	KWIK BOLT TZ2 (ICC ESR-4266)	STRONG-BOLT 2 (ICC ESR-3037)
SCREW	SCREW-BOLT+ (ICC ESR-3889)	KWIK HUS-EZ (ICC ESR-3027)	TITEN HD (ICC ESR-2713)
ADHESIVE	AC200+ (ICC ESR-4027)	HIT HY-200 V3 (ICC ESR-4868)	AT-3G (ICC ESR-5026)

MASONRY POST-INSTALLED ANCHORS			
ANCHOR TYPE	DEWALT	HILTI	SIMPSON
EXPANSION	POWER-STUD+ SD1 (ICC ESR-2966)	KWIK BOLT TZ2 (ICC ESR-4561)	STRONG-BOLT 2 (UES ER-240)
SCREW	SCREW-BOLT+ (ICC ESR-4042)	KWIK HUS-EZ (ICC ESR-3056)	TITEN HD (ICC ESR-1056)
ADHESIVE	AC100+ GOLD (ICC ESR-3200)	HIT HY-270 (ICC ESR-4143 / 4144)	SET-3G (ICC ESR-4844)

STRUCTURAL MASONRY:

1. GENERAL CONTRACTOR SHALL HOLD A MASONRY PRECONSTRUCTION MEETING AT THE PROJECT SITE WITH REPRESENTATION FROM THE GC, MASON, TESTING AGENCY AND STRUCTURAL ENGINEER.
2. GENERAL CONTRACTOR SHALL SUBMIT COORDINATED ELEVATION DRAWINGS FOR REVIEW OF ALL MASONRY WALLS SHOWING:
   - A. ALL CONTROL JOINTS, BOND BEAMS, BEAM AND JOIST POCKETS, AND OPENINGS INCLUDING MECHANICAL AND PLUMBING PENETRATIONS GREATER THAN 3" IN ANY DIMENSION.
   - B. TYPICAL WALL REINFORCING
   - C. ADDITIONAL WALL REINFORCING AT MASONRY LINTELS, JAMBS, OPENINGS, AND AS NOTED ON STRUCTURAL DRAWINGS.
3. DESIGN IS BASED ON TMS 402/602, "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"
4. 28-DAY COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY USED FOR DESIGN IS 2,000 PSI, BASED ON NET-BEDDED AREA.
5. MASONRY LINTELS SHALL USE STANDARD LINTEL UNITS. BOND BEAMS SHALL USE UNITS PRODUCED FROM STANDARD VERTICALLY VOIDED UNITS WITH PRE-CUT KNOCKOUT CROSS WALLS.
6. HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT, 85 TO 105 PCF DENSITY, CONFORMING TO ASTM C90, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI BASED ON AVERAGE NET AREA.
7. FACING BRICK SHALL CONFORM TO ASTM C216 GRADE SW.
8. BUILDING BRICK SHALL CONFORM TO ASTM C62 GRADE SW.
9. HOLLOW BRICK SHALL CONFORM TO ASTM C652, GRADE SW.
10. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270.
11. MASONRY CEMENT SHALL NOT BE USED UNLESS PART OF A PRE-PACKAGED MORTAR OR GROUT MIX APPROVED BY THE STRUCTURAL ENGINEER.
12. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
13. GROUT USED IN MASONRY WALLS AND BLOCK CELLS SHALL BE COARSE GROUT, AS DEFINED BY ARTICLE 2.2 OF TMS 602, WITH A MINIMUM CUBE STRENGTH = 2,000 PSI OR 3,000 PSI CONCRETE USING 3/8" DIAMETER AGGREGATE AND PLACED BY VIBRATING UNLESS AN APPROVED SELF-CONSOLIDATING MIX IS USED.
14. PLACEMENT OF MORTAR, GROUT, MASONRY UNITS AND WALL TIES SHALL COMPLY WITH TMS 602.
15. PROVIDE MORTAR FOR FULL THICKNESS OF SHELL IN ALL HEAD AND BED JOINTS.
16. 'LOW-LIFT' GROUTING SHALL NOT EXCEED 5'-4" IN HEIGHT UNLESS TMS 602 'HIGH-LIFT' GROUTING PROCEDURES ARE REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
17. VERTICALLY SPACE CONTINUOUS HORIZONTAL JOINT REINFORCING AT 16" MAXIMUM IN ALL CMU WALLS. JOINT REINFORCING SHALL BE WELDED TYPE WITH 9 GAGE SIDE RODS AND 9 GAGE LADDER CROSS RODS. IN EXTERIOR WALLS, JOINT REINFORCEMENT SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED. ALL OTHER JOINT REINFORCEMENT SHALL BE MILL GALVANIZED, HOT-DIP GALVANIZED, OR STAINLESS STEEL.
18. REINFORCING BARS SHALL HAVE MATERIAL PROPERTIES AS SPECIFIED FOR REINFORCED CONCRETE. LAP BARS PER THE LAP SPLICE SCHEDULE (48 DIAMETERS MINIMUM) UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
19. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE BAR LOCATORS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS OR 10 FEET.
20. REINFORCE AND GROUT VERTICAL CELLS AT CORNERS, ENDS OF WALLS, JAMBS OF OPENINGS, EACH SIDE OF VERTICAL CONTROL JOINTS, AND AT SPACING SHOWN ON DRAWINGS.
21. VENEER ANCHORS:
    - A. ANCHORS SHALL MEET THE MATERIAL AND DIMENSIONAL REQUIREMENTS OF TMS 402/602.
    - B. COMPRESSION TEST DATA SHALL BE SUBMITTED FOR PROPOSED ANCHORS WHERE CAVITY WIDTH EXCEEDS 4-1/2".
    - C. ANCHOR TENSION CAPACITY SHALL CONSIDER THE BACKUP MATERIAL AND THICKNESS, AND BE COORDINATED WITH THE TRADE PROVIDING VENEER BACKUP
    - D. ANCHORS SHALL BE COMPATIBLE WITH BACKUP STRUCTURE MATERIAL AND ARCHITECTURAL INSULATION, VAPOR BARRIER AND WATERPROOFING SYSTEMS.
    - E. PROVIDE ANCHORS AT 16" MAXIMUM IN ONE DIRECTION AND 24" IN THE ORTHOGONAL DIRECTION WHERE qz IS LESS THAN 40 PSF.
    - F. PROVIDE ANCHORS AT 16" MAXIMUM IN EACH DIRECTION WHERE qz IS BETWEEN 40 AND 55 PSF.
    - G. PROVIDE ANCHORS AROUND PERIMETER OF OPENINGS AT 24" MAXIMUM AND WITHIN 12" OF THE OPENING.
    - H. VENEER NOT LAID IN RUNNING BOND SHALL HAVE ONE WIRE JOINT REINFORCEMENT AT 18" MAXIMUM VERTICAL SPACING.
    - I. IN SEISMIC DESIGN CATEGORY C AND ABOVE, PROVIDE TIES WITH A CONTINUOUS ANCHOR WIRE IN VENEER JOINTS.
22. WHERE NOTED ON THE DRAWINGS, PROVIDE CLEARANCE BETWEEN MASONRY AND STRUCTURAL ELEMENTS, OR WRAP STEEL WITH POLYETHYLENE FILM.
23. LOCATE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS AS SHOWN ON THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, OR SPACED HORIZONTALLY AT 25'-0 MAXIMUM SPACING WHERE NOT SHOWN.

LOOSE LINTELS:

1. UNLESS NOTED OTHERWISE PROVIDE LOOSE LINTELS AS FOLLOWS:

LOOSE LINTEL SCHEDULE		
SPAN	SIZE	MIN END BEARING
UP TO 4'-0	L3-1/2 x 3-1/2 x 1/4	4"
4'-1 TO 5'-4	L5 x 3-1/2 x 1/4 (LLV)	4"
5'-5 TO 10'-0	L6 x 3-1/2 x 5/16 (LLV)	8"

2. ONE ANGLE FOR EACH 4" OF WALL THICKNESS.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. STRUCTURAL STEEL W-, WT-, C- AND MC-SHAPES SHALL CONFORM TO ASTM A992, 50 KSI YIELD.
3. PLATES AND ANGLES SHALL CONFORM TO ASTM A36, 36 KSI YIELD, OR ASTM A572, 50 KSI YIELD, UNLESS SPECIFICALLY NOTED TO BE ASTM A572, 50 KSI YIELD ON DRAWINGS..
4. HOLLOW STRUCTURAL SECTION (HSS) RECTANGULAR OR ROUND SHAPES SHALL CONFORM TO ASTM A500, GRADE C, 50 KSI YIELD.
5. PIPE SHAPES SHALL CONFORM TO ASTM A53, GRADE B, 35 KSI YIELD.
6. EXCEPT AS NOTED, FRAMED BEAM CONNECTIONS SHALL BE BEARING-TYPE WITH 3/4" DIAMETER, SNUG TIGHT, ASTM F3125 BOLTS, DETAILED IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE "STEEL CONSTRUCTION MANUAL" BY THE AISC. INSTALL BOLTS IN ACCORDANCE WITH AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
7. ALL BEAMS SHALL HAVE FULL DEPTH WEB STIFFENERS EACH SIDE OF WEBS ABOVE AND BELOW COLUMNS.
8. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, 55 WITH WELDABILITY SUPPLEMENT S1, AND/OR 105 AS NOTED ON THE STRUCTURAL DRAWINGS.
9. HEADED ANCHOR STUDS (HAS) SHALL CONFORM TO ASTM A108 AND SHALL BE CONNECTED TO STRUCTURAL STEEL WITH EQUIPMENT APPROVED BY THE STUD MANUFACTURER ACCORDING TO THE STUD MANUFACTURER'S RECOMMENDATIONS.
10. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE AISC DOCUMENTS LISTED ABOVE, THE AMERICAN WELDING SOCIETY (AWS) D1.1: STRUCTURAL WELDING CODE, AND THE RECOMMENDATIONS FOR USE OF WELD 70KSI ELECTRODES. WHERE NOT SPECIFICALLY NOTED, MINIMUM WELD SHALL BE 3/16" FILLET BY LENGTH OF CONTACT EDGE.
11. GROUT BENEATH COLUMN BASE AND BEAM BEARING PLATES SHALL HAVE A MINIMUM 28-DAY, COMPRESSIVE STRENGTH OF 7,500 PSI AND SHALL BE NON-SHRINK, NON-METALLIC, AND TESTED IN ACCORDANCE WITH ASTM C1107.

STEEL DECKING:

1. STEEL ROOF, NON-COMPOSITE FLOOR (OR FORM), AND COMPOSITE FLOOR DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE STANDARD DECK SPECIFICATIONS AND THE "MANUAL OF CONSTRUCTION WITH STEEL DECK" AS PREPARED BY THE STEEL DECK INSTITUTE (SDI).
2. ROOF DECK SHALL BE CONNECTED TO SUPPORTING MEMBERS AND INTERCONNECTED AS NOTED ON THE STRUCTURAL DRAWINGS.
3. NON-COMPOSITE AND COMPOSITE FLOOR DECK SHALL BE CONNECTED TO SUPPORTING MEMBERS AND INTERCONNECTED AS REQUIRED TO SATISFY SDI MINIMUM REQUIREMENTS EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS.
4. DIAPHRAGM CAPACITY OR WELDING PATTERNS, SCREW PATTERNS, AND DETAILS SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS.
5. IN LIEU OF WELDS, THE CONTRACTOR MAY SUBMIT FOR REVIEW ALTERNATE DECK CONNECTIONS USING POWDER-ACTUATED FASTENERS WHICH PROVIDE EQUAL OR GREATER DIAPHRAGM STRENGTH AND STIFFNESS. POWDER-ACTUATED FASTENERS SHALL BE SDI LISTED FOR DIAPHRAGM DESIGN AND WIND UPLIFT, UL AND FM LISTED FOR FIRE RESISTANCE AND WIND UPLIFT. POWDER ACTUATED FASTENERS SHALL BE RECOGNIZED BY ICC-ES FOR DIAPHRAGM SHEAR STRENGTH IN ACCORDANCE WITH THE LATEST VERSION OF THE ICC-ES AC 43.

CORROSION CONTROL:

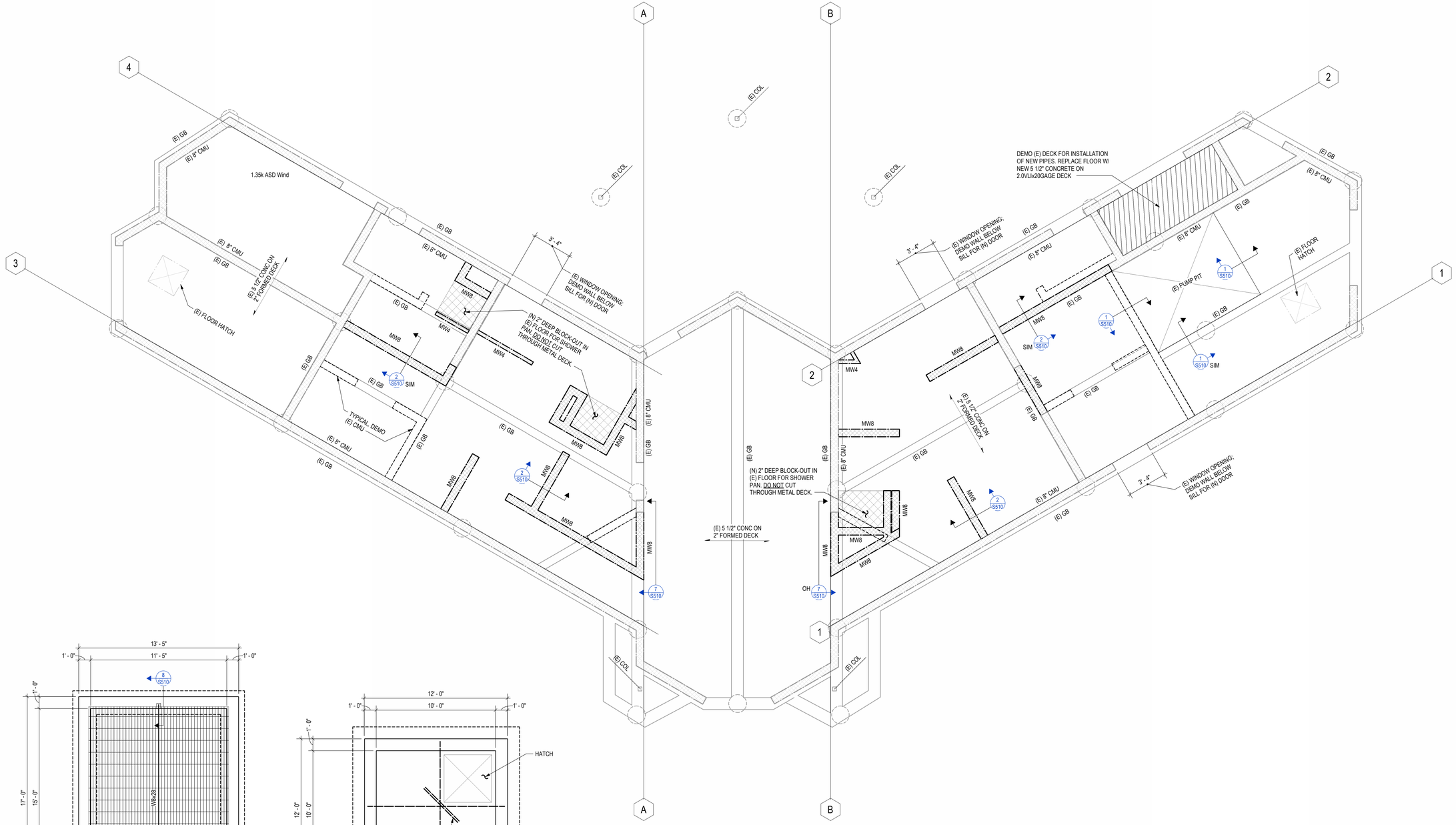
1. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
2. FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR ASTM B695 CLASS 50 (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED). STAINLESS STEEL FASTENERS AND HARDWARE MAY ALSO BE USED.
3. ALL FIELD CUT OR DAMAGED SURFACES, FIELD WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS AS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPAIRED WITH (2) COATS OF A 95% ZINC RICH PAINT PER ASTM A780 (ZRC PREFERRED).

STRUCTURAL WOOD FRAMING:

1. IN-GRADE BASE VALUES HAVE BEEN USED FOR DESIGN.
2. DIMENSIONAL LUMBER FRAMING SHALL BE S4S HEM FIR NO. 2 AND BETTER UNO.
3. SOLID TIMBER BEAMS AND POSTS SHALL BE DOUGLAS FIR-LARCH NO. 1 AND BETTER UNO.
4. STUDS SHALL BE HEM FIR STUD GRADE AND BETTER UNO.
5. TOP AND BOTTOM PLATES SHALL BE DOUGLAS FIR-LARCH NO. 2 AND BETTER UNO.
6. ALL LUMBER SHALL BE 19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION UNO.
7. ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH OR SOUTHERN YELLOW PINE. PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARDS U1 AND M4. TREATMENTS SHALL HAVE NO AMMONIA ADDED AND SHALL BE THE FOLLOWING USE CATEGORY:
   - A. UC2 AT INTERIOR
   - B. UC3B AT EXTERIOR WITH NO GROUND CONTACT
   - C. UC4B AT EXTERIOR WITH GROUND CONTACT
8. FASTENERS FOR USE WITH TREATED WOOD SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH SECTION 2304.9.5 (2012 IBC), 2304.10.5 (2015 & 2018 IBC), 2304.10.6 (2021 IBC).
9. ALL CONNECTORS USED WITH PRESSURE-TREATED MATERIAL SHALL BE STAINLESS STEEL ASTM 304 OR 316, OR HAVE A SIMPSON Z-MAX (G185) OR HDG COATING. STANDARD COATING (G90) IS ACCEPTABLE AT INTERIOR CONDITIONS WITH NON PRESSURE-TREATED LUMBER ONLY. CONNECTORS ARE TO BE IN ACCORDANCE WITH ASTM A653 OR ASTM 123.
10. ALL IRON AND STEEL PRODUCTS ATTACHED TO TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 OR SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
11. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED ON THE STRUCTURAL DRAWINGS.
12. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO CLOSING IN OF WALLS, FLOORS, AND ROOFS.
13. ALL BOLTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS UNDER HEAD AND/OR NUT, UNO.
14. METAL FRAMING ANCHORS SHOWN OR REQUIRED, SHALL BE SIMPSON STRONG-TIE OR EQUAL CODE APPROVED CONNECTORS AND INSTALLED WITH ALL HOLES FILLED (ROUND AND TRIANGULAR) WITH THE MAXIMUM SIZE NAIL RECOMMENDED BY THE MANUFACTURER TO DEVELOP THE MAXIMUM RATED CAPACITY.
15. CONNECTOR BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1 AND ASTM SAE J429 GRADE 1.
16. NAILS AND SPIKES SHALL CONFORM TO ASTM F1667.
17. WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1.
18. LEAD HOLES FOR LAG SCREWS SHALL BE 40%-70% OF THE SHANK DIAMETER AT THE THREADED SECTION AND EQUAL TO THE SHANK DIAMETER AT THE UNTHREADED SECTION.
19. CONVENTIONAL LIGHT FRAMING SHALL COMPLY WITH IBC SECTION 2308.
20. COLUMNS / MULTIPLE STUDS IN BEARING WALLS SUPPORTING ALL BEAMS AND HEADERS SHALL OCCUR CONTINUOUSLY THROUGH EACH FLOOR LEVEL DOWN TO THE FOUNDATION OR ANOTHER SUPPORT BEAM. SOLID SQUASH BLOCKING EQUIVALENT IN AREA TO THE COLUMN/MULTIPLE STUDS ABOVE SHALL BE PROVIDED WITHIN THE JOIST SPACE BENEATH THE COLUMN/MULTIPLE STUDS.
21. ALL BEAMS AND TRUSSES SHALL BE BRACED AGAINST ROTATION AT POINTS OF BEARING.
22. 2X BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS, UNO.
23. CROSS-BRIDGING OR SOLID BLOCKING SHALL BE PROVIDED AT 8'-0" MAX UNO. FOR ALL JOISTS AND RAFTERS MORE THAN 10" IN DEPTH. 2X3 OR APPROVED METAL TYPE BRIDGING MAY BE USED.
24. PROVIDE A MINIMUM OF (3) STUDS AT EACH CORNER, UNO.
25. ALL JOISTS AND BEAMS (EXCLUDING I-JOISTS) SHALL BE SEAT-CUT FOR FULL UNIFORM BEARING AT SUPPORTS, SEATS, CAPS, ETC.
26. VENTING IS REQUIRED IN ALL ENCLOSED ROOF AND CRAWL SPACE FRAMING CAVITIES, SEE ARCHITECTURAL DRAWINGS.
27. EXCEPT AS NOTED OTHERWISE, MINIMUM NAILING SHALL BE PROVIDED AS SPECIFIED IN TABLE 2304.9.1 (2012 IBC), 2304.10.1 (2015 & 2018 IBC), 2304.10.2 (2021 IBC) "FASTENING SCHEDULE".
28. ALL MULTIPLE MEMBER BEAMS SHALL BE NAILED TOGETHER WITH MAX NUMBER OF 10D NAILS VERTICALLY @ 3" AND HORIZONTALLY @ 12" PER PLY.
29. TONGUE AND GROOVE DECKING SHALL BE INSTALLED IN ACCORDANCE WITH THE "STANDARD FOR TONGUE AND GROOVE HEAVY TIMBER ROOF DECKING", AITC 112. WHERE DECKING MUST BE NAILED FROM THE BOTTOM SIDE, USE (2) 16D GALVANIZED FINISH NAILS AT EACH SUPPORT, COUNTERSUNK AND FILLED.
30. ALL ROOF RAFTERS, JOISTS, TRUSSES, AND BEAMS SHALL BE ANCHORED TO SUPPORTS WITH H2.5A METAL FRAMING ANCHORS UNO. PROVIDE (2) WITHIN 4'-0" OF ALL CORNERS.

WOOD SHEATHING:

1. PLYWOOD AND ORIENTED STRAND BOARD (OSB) FLOOR AND ROOF SHEATHING SHALL BE APA RATED WITH STAMP INCLUDING APA TRADEMARK AND PANEL SPAN RATING.
   - A. M



EXTERIOR PUMP PIT

1/4" = 1'-0"

NORTH 0 2' 4' 8' 16'

SURGE TANK

1/4" = 1'-0"

NORTH 0 2' 4' 8' 16'

FIRST FLOOR/ FOUNDATION PLAN

1/4" = 1'-0"

NORTH 0 2' 4' 8' 16'

- GC TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCEMENT OF WORK. GC IS RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING CONDITIONS AS REQUIRED.
- ALL ITEMS AND FRAMING NOTED AS (E) EXISTING ARE ASSUMED

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO REGISTERED PROFESSIONAL ENGINEER
38759
03.27.26

Project Number:	2025.082
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FIRST FLOOR/ FOUNDATON PLAN

S101

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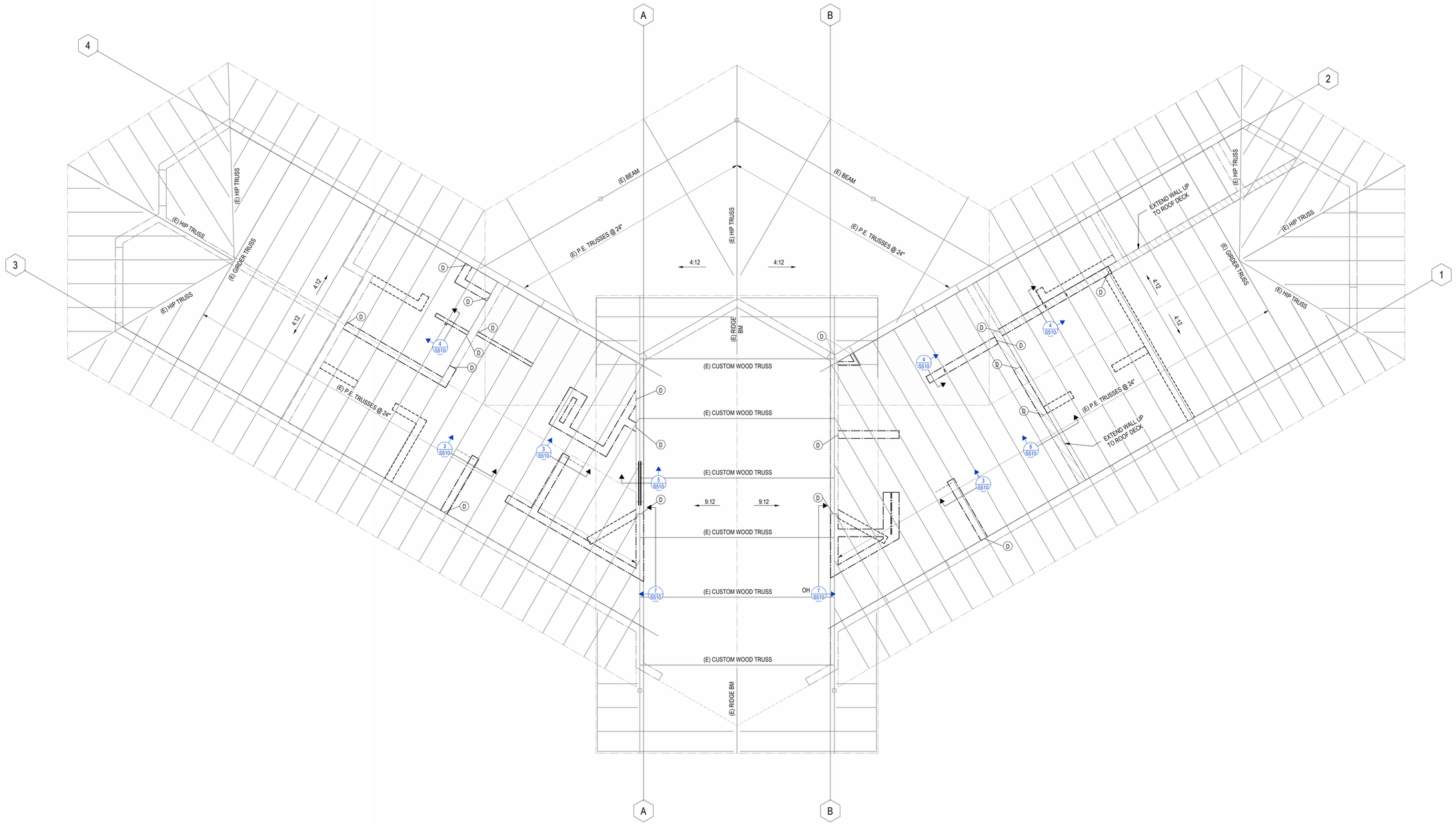

ROOF FRAMING PLAN

1/4" = 1'-0"

NORTH

0 2' 4' 8' 16'

- GC TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCEMENT OF WORK. GC IS RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING CONDITIONS AS REQUIRED.
- ALL ITEMS AND FRAMING NOTED AS (E) EXISTING ARE ASSUMED
- (D) INDICATES DRILL & EPOXY #4 x 3'-0" DOWEL INTO EXISTING CMU WALL WITH HILTI HY200 V3 (6" EMBEDMENT TO LAP WITH EACH BOND BEAM COURSE OF NEW WALL
- "x" INDICATES LOCATION OF NEW CMU WALL CONNECTION TO EXISTING TRUSS PER 3/S510

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ROOF FRAMING PLAN

S102

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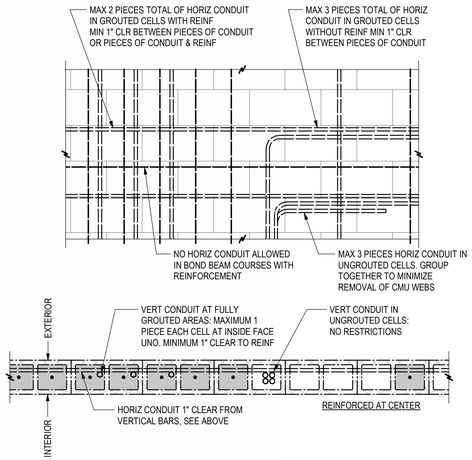
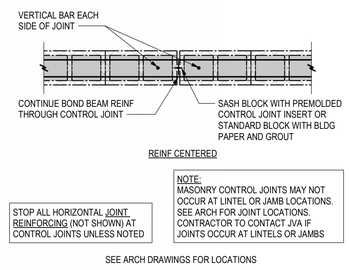
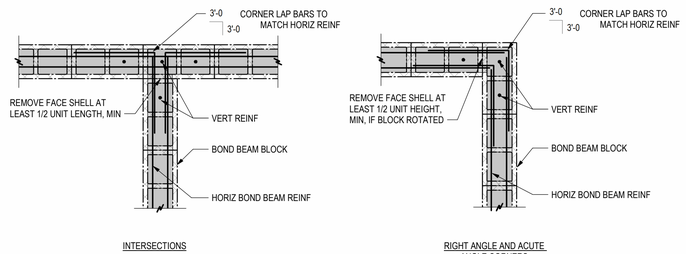


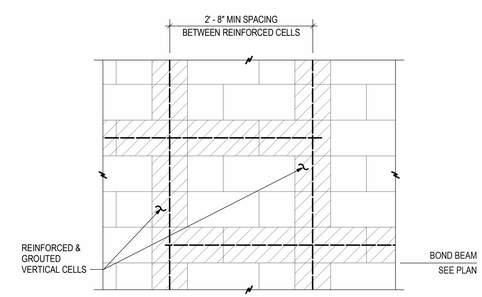
4 / S501 TYP CMU CONDUIT PLACEMENT IN WALL
NO SCALE



1 / S501 TYP CMU VERT CONTROL JOINT IN WALL
NO SCALE



2 / S501 TYP CMU WALL INTERSECTIONS
NO SCALE



TYPICAL WHERE BOND BEAMS OVERLAP AT DIFFERENT HEIGHTS:
OVERLAP BOND BEAM REINFORCEMENT FROM ONE REINFORCED & GROUTED VERTICAL CELL TO THE NEXT ADJACENT REINFORCED & GROUTED VERTICAL CELL

3 / S501 TYP CMU BOND BEAM LAP
NO SCALE

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TYPICAL DETAILS

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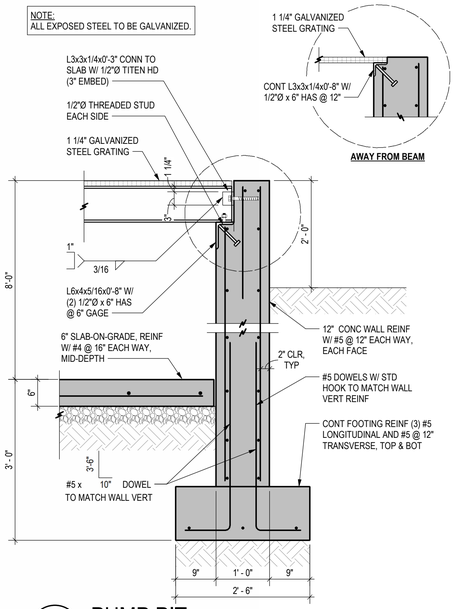
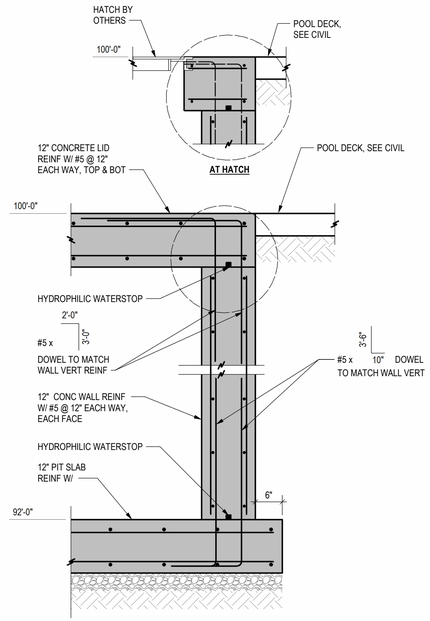
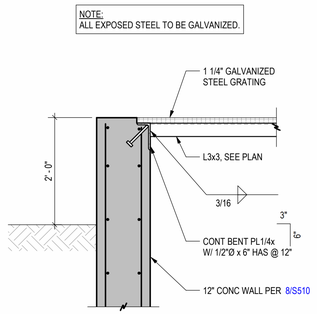


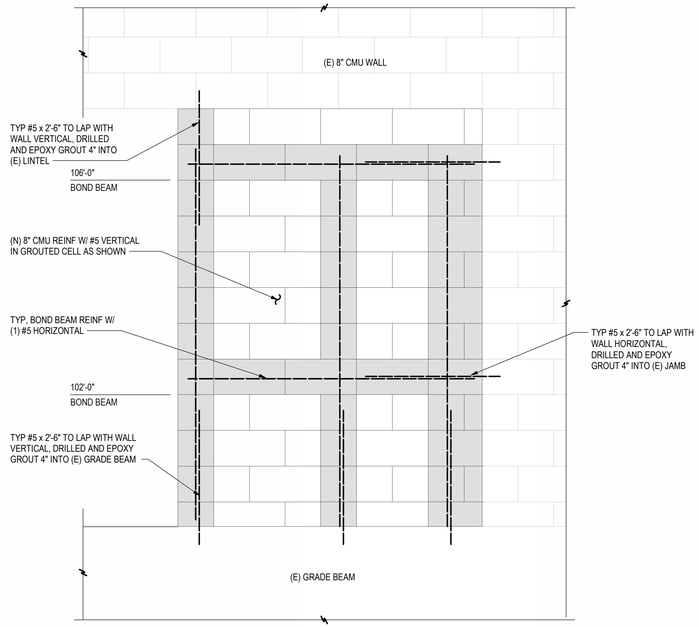
8 S510 **PUMP PIT**
NO SCALE



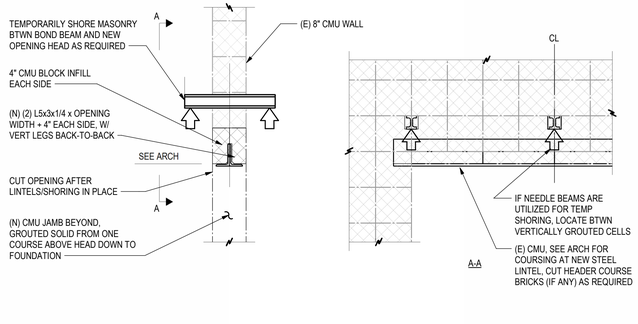
9 S510 **SURGE TANK**
NO SCALE



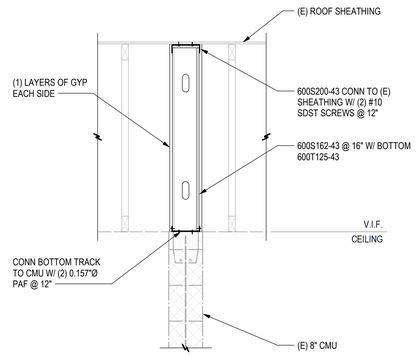
10 S510 **SECTION**
NO SCALE



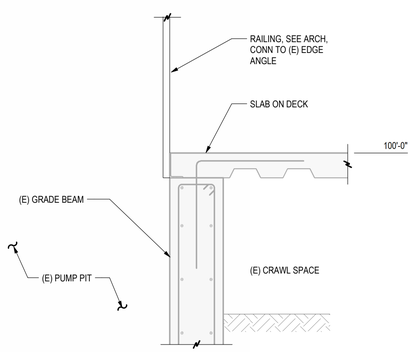
7 S510 **DETAIL**
NO SCALE



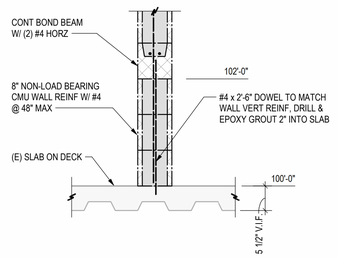
5 S510 **SECTION**
NO SCALE



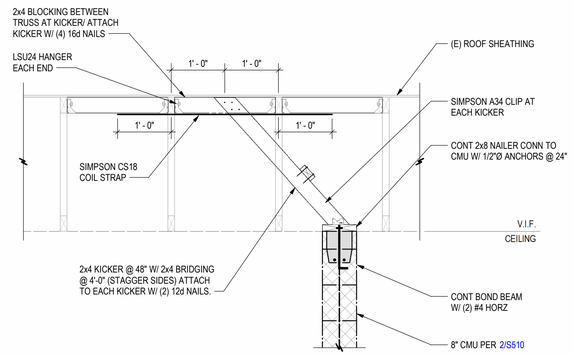
6 S510 **SECTION**
3/4" = 1'-0"



1 S510 **SECTION**
3/4" = 1'-0"
0 6" 1' 2' 3'

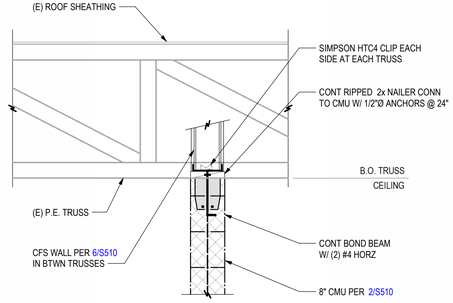


2 S510 **SECTION**
3/4" = 1'-0"



AT WALL PARALLEL TO (E) TRUSSES

3 S510 **SECTION**
3/4" = 1'-0"



AT WALL PERPENDICULAR TO (E) TRUSSES

4 S510 **SECTION**
3/4" = 1'-0"

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SECTIONS & DETAILS

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GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
EF		EXHAUST FAN
LVR		LOUVER
SD		SLOT DIFFUSER
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
FG		FLOOR GRILLE
RR		RETURN REGISTER
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
MCD	M	MOTORIZED CONTROL DAMPER
	B	BACKDRAFT DAMPER
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND SUPPLY DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
	SUP / RET	OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING WITHOUT MANUAL VOLUME DAMPER
		45° TAKEOFF
		STANDARD RADIUS ELBOW
	10x8	NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
	10"ø	NEW ROUND DUCTWORK - DIAMETER
	(E)10x8	EXISTING DUCTWORK TO REMAIN
	10x8	EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
RG/EG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY

MECHANICAL HVAC INSULATION NOTES AND SPECIFICATIONS

1. ALL EXHAUST DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, UNLESS NOTED OTHERWISE.

MECHANICAL HVAC NOTES AND SPECIFICATIONS

1. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.
2. UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
3. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
4. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
5. ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES.
6. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
7. EXPOSED ROUND DUCTWORK SHALL BE SPIRAL WOUND, AND BE FREE OF IMPERFECTIONS AND DAMAGE. SEAL EXPOSED DUCTWORK IN A NEAT AND WORKMANLIKE MANNER SUITABLE FOR PAINTING.
8. EXPOSED DUCTWORK SHALL HAVE A GALVANIZED FINISH.
9. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
10. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
11. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
12. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
13. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
14. BRANCH FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL (OR 45° TAKEOFFS AS SHOWN ON DRAWINGS). PROVIDE WITH MANUAL VOLUME DAMPERS UNLESS THE AIR TERMINAL IS PROVIDED WITH AN OBD.
15. RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
16. ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS. OPENINGS IN INSTALLED DUCTWORK DURING CONSTRUCTION SHALL BE SEALED CLOSED WITH PLASTIC TO PREVENT DUST AND DEBRIS INTRUSION INTO DUCTWORK SYSTEMS.
17. COORDINATE LOUVER, WALL CAP, AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
18. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
19. FLUES FOR POOL HEATERS SHALL BE ENGINEERED BY THE FLUE MANUFACTURER, BASED ON ACTUAL EQUIPMENT, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
20. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE OR CPVC DUCT. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
21. FIRE DAMPERS SHALL BE STAINLESS STEEL TYPE 'A' TYPE.

SHEET INDEX

SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M000	HVAC COVER SHEET	NONE	
M021	HVAC DEMOLITION PLAN	1/4" = 1'-0"	
M101	OVERALL FIRST FLOOR HVAC PLAN	1/4" = 1'-0"	
M700	HVAC SCHEDULES AND DETAILS	NONE	

MECHANICAL DEMOLITION GENERAL NOTES AND SPECIFICATIONS

1. THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK, AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
3. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
4. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
5. EXISTING MECHANICAL WORK IS SHOWN LIGHT.
6. ALL MECHANICAL ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE MECHANICAL CONTRACTOR.
7. ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING AND CONTROL COMPONENTS SHALL BE REMOVED.
8. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
9. THE REMOVAL OR INSTALLATION OF CONTROLS, PIPES, DUCTS, AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
10. THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALLS TO MATCH EXISTING AT THE DEMOLISHED CONTROLS.
11. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
12. THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF, AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
13. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

1. THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE UTILIZED AS SHOP DRAWINGS NOR NECESSARILY SCALED FOR EXACT MEASUREMENTS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
2. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COORDINATION OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE USE OR INSTALLATION OF EQUIPMENT OTHER THAN THAT OF THE BASIS OF DESIGN MANUFACTURERS LISTED ON THE DRAWINGS.
4. THE MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION. THE MECHANICAL SYSTEMS SHOWN SHALL BE RUN AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
6. THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ALL THERMOSTATS, SENSORS, AND SWITCHES SHALL BE LOCATED 48" AFF UNLESS INDICATED OTHERWISE. WHERE EXISTING CONDITIONS REQUIRE EXPOSED CONTROL WIRING, SUCH WIRING SHALL BE CONCEALED WITH WIRE MOLD. WIRE MOLD COLOR SHALL BE SELECTED BY THE ARCHITECT.
7. PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, CONTROLS, AND DAMPERS. LABELS SHALL BE AFFIXED OR ADHERED DIRECTLY TO EQUIPMENT. EQUIPMENT TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS.
8. BALANCE AIR SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT TO THE ARCHITECT/ENGINEER FOR REVIEW. FAN AND PUMP SYSTEMS TO BE BALANCED WITHIN PLUS 10 PERCENT OR MINUS 5 PERCENT OF LISTED VALUES. AIR INLETS AND OUTLETS TO BE BALANCED WITH PLUS 10 PERCENT TO MINUS 5 PERCENT OF LISTED VALUES.
9. SUBMIT TO THE ARCHITECT/ENGINEER ELECTRONIC PDF FILES OF MECHANICAL SUBMITTALS FOR REVIEW OF ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS DUCTWORK ACCESSORIES AND CONTROLS. ENGINEER ASSUMES NO RESPONSIBILITY FOR EQUIPMENT OR INSTALLATION COORDINATION THAT HAS NOT BEEN SUBMITTED FOR REVIEW.
10. CONTRACTOR SHALL WARRANTY WORK, EQUIPMENT, MATERIALS, AND PROPER OPERATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF BUILDING BY OWNER. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN O&M MANUALS.
11. PROVIDE TWO SETS OF OPERATION AND MAINTENANCE (O&M) MANUALS FOR OWNER AT COMPLETION OF PROJECT TO THE ARCHITECT/ENGINEER FOR REVIEW. DOCUMENTATION SHALL CONSIST OF MANUFACTURER'S INFORMATION, SPECIFICATIONS AND RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.
12. CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.
13. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE INACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS (VALVES AND DAMPERS) AND 24"x24" ACCESS FOR HEAD AND SHOULDER ACCESS FOR OTHER EQUIPMENT.

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED
PAUL WILLIAM FLEMING
No. 0048239
3/26/2026
PROFESSIONAL ENGINEER

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HVAC COVER SHEET

M000

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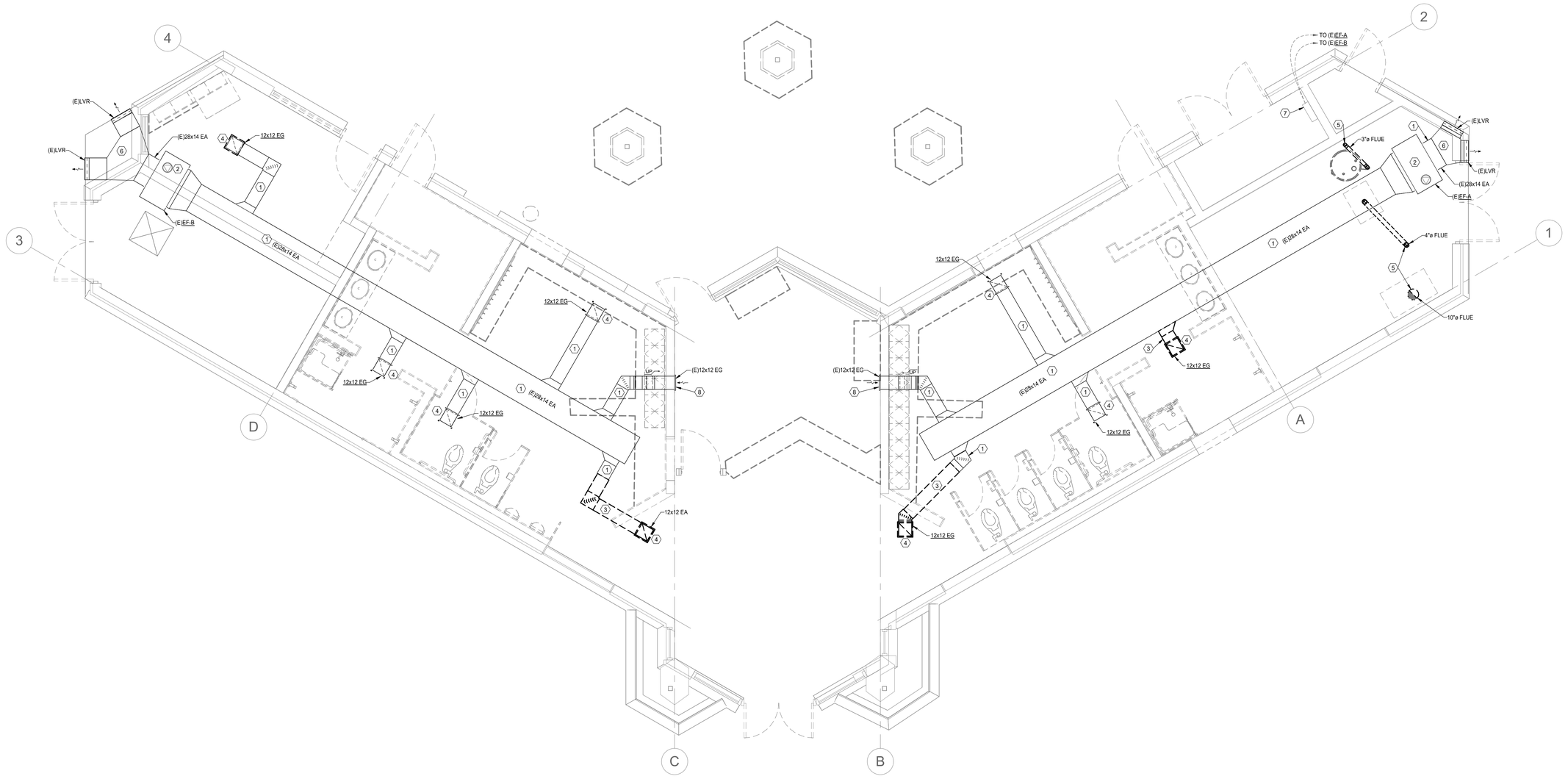
FIRST FLOOR HVAC DEMOLITION KEYNOTES:

1. EXISTING DUCTWORK TO REMAIN.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
3. REMOVE EXISTING DUCTWORK UP TO POINT INDICATED.
4. REMOVE EXISTING GRILLES, REGISTERS AND DIFFUSERS INDICATED.
5. REMOVE EXISTING FLUE AND ALL HANGERS, SUPPORTS AND APPURTENANCES. G.C. TO PATCH OPENING IN ROOF.
6. EXISTING EXHAUST PLENUM AND ASSOCIATED LOUVERS TO REMAIN.
7. EXISTING EXHAUST FAN TIME CLOCK CONTROLLER TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR RECONNECTION TO NEW PANEL BOARD.
8. EXISTING EXHAUST GRILLE TO REMAIN.



HVAC FIRST FLOOR DEMO PLAN

SCALE: 1/4" = 1'-0"

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED
PETER W. FRANK
0048239
3/26/2026
PROFESSIONAL ENGINEER

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HVAC DEMOLITION PLAN

M021

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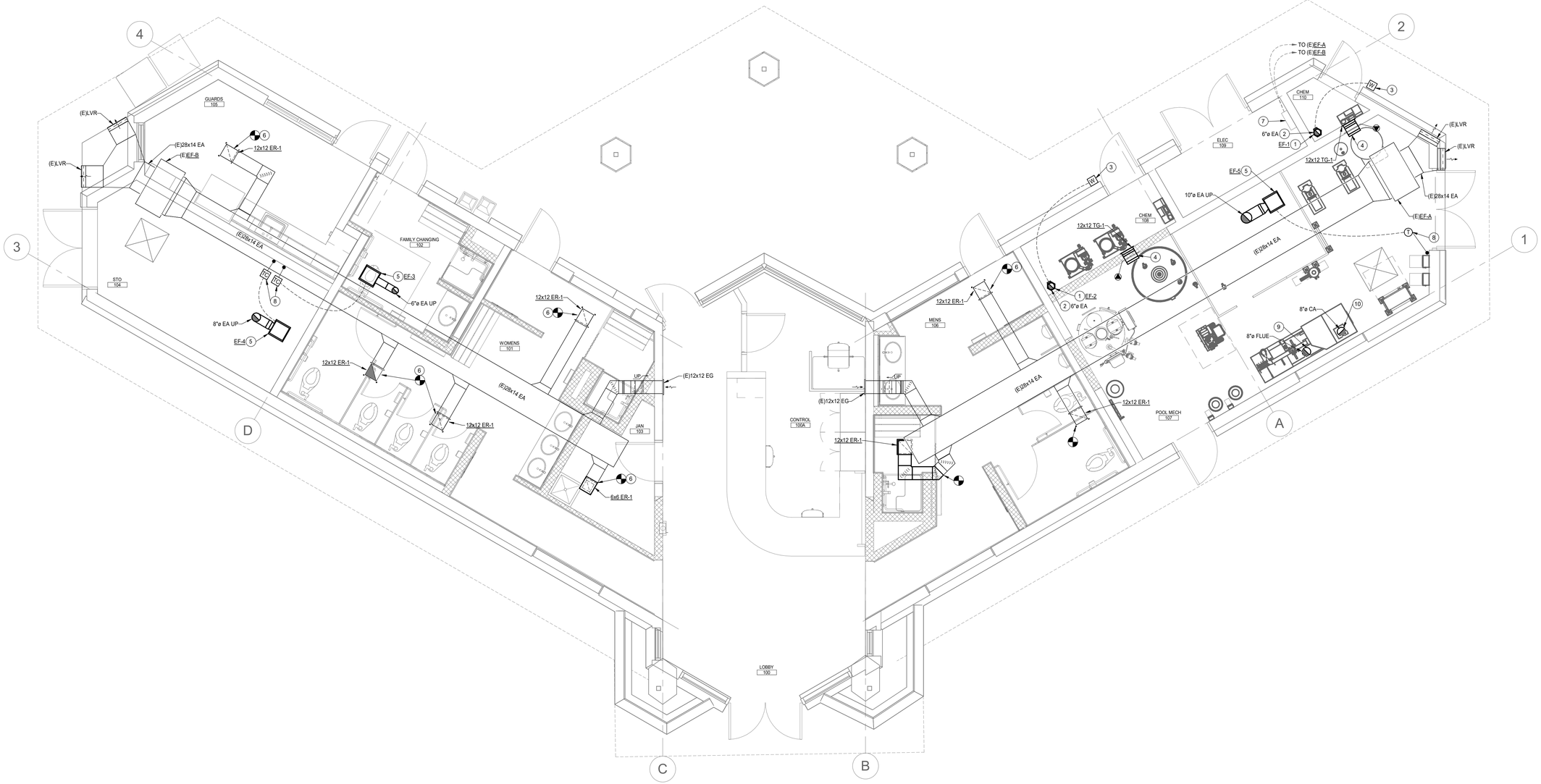
FIRST FLOOR HVAC KEYNOTES:

1. INLINE CHEMICAL EXHAUST FAN SET AS HIGH AS POSSIBLE IN VERTICAL ORIENTATION. PROVIDE 6" CPVC PIPING TO INLET AND OUTLET. TERMINATE ABOVE ROOF WITH 45° GOOSENECK.
2. TERMINATE CPVC PIPE 6" A.F.F. LEAVE DUCT OPEN TO THE SPACE WITH NO INLET GRILLE OR SCREEN. SUPPORT FROM WALL WITH ALUMINUM, PLASTIC OR EPOXY COATED SUPPORTS.
3. CHEMICAL WARNING LIGHT. REFER TO DETAIL. SET APPROXIMATELY 5' A.F.F. LIGHT SHALL ILLUMINATE WHENEVER THE ASSOCIATED FAN IS NOT OPERATING.
4. PROVIDE A NEW ALUMINUM TRANSFER DUCT, ALUMINUM GRILLE AND TYPE-A STAINLESS STEEL FIRE DAMPER. OPEN END TRANSFER DUCT ON SIDE OF ADJACENT SPACE WITH ACCESS TO FIRE DAMPER. TRANSFER GRILLE SHALL BE ON CHEMICAL ROOM SIDE OF WALL.
5. CEILING MOUNTED EXHAUST FAN. TERMINATE WITH A RESIDENTIAL PITCHED ROOF JACK. REFER TO SCHEDULE FOR SIZE AND CAPACITY. REFER TO DETAIL.
6. CONNECT NEW EXHAUST REGISTER TO THE EXISTING DUCT DROP. PROVIDE TRANSITIONS AS NEEDED
7. EXISTING EXHAUST FAN TIME CLOCK CONTROLLER SHALL BE RECONNECTED TO THE NEW PANEL BOARD. REFER TO ELECTRICAL DRAWINGS.
8. REVERSE ACTING THERMOSTAT TO ENERGIZE FAN WHEN TEMPERATURE EXCEEDS 75 DEGREES.
9. AL29-4C FLUE OF SIZE INDICATED FROM BOILER CONNECTION UP THROUGH ROOF. FLUE SHALL BE INSTALLED WITH NO SECTIONS LESS THAN 45° ANGLE WITH LONG RADIUS ELBOWS. CONFIRM MATERIALS AND SIZING REQUIREMENTS WITH THE SUCCESSFUL POOL HEATER MANUFACTURER. REFER TO AQUATICS PLANS FOR BOILER REQUIREMENTS. ENSURE THAT FLUE AND COMBUSTION AIR ARE SEPARATED AS REQUIRED BY THE MANUFACTURER.
10. SINGLE WALL GALVANIZED COMBUSTION AIR DUCT OF SIZE INDICATED FROM BOILER CONNECTION UP THROUGH ROOF. CONFIRM MATERIALS AND SIZING REQUIREMENTS WITH THE SUCCESSFUL POOL HEATER MANUFACTURER. REFER TO AQUATICS PLANS FOR BOILER REQUIREMENTS. ENSURE THAT FLUE AND COMBUSTION AIR ARE SEPARATED AS REQUIRED BY THE MANUFACTURER.



HVAC FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED PROFESSIONAL ENGINEER
PETER WILLIAM FULLA
0048239
3/26/2026

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OVERALL FIRST FLOOR HVAC PLAN

M101

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FAN SCHEDULE

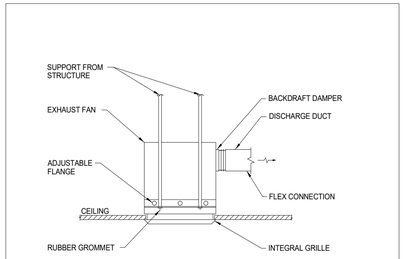
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES	CFM	T.S.P. @ S.L.	RPM @ S.L.	MOTOR HP	MOTOR V/Ø/HZ	DIMENSIONS H	DIMENSIONS W	DIMENSIONS L	WT (LBS)	VIB. ISOL.	CONT.	DAMPER TYPE	REMARKS
EF-1	FAN AMERICA ICF-150	INLINE	ACID	-	150	0.25"	2800	27W	120/1/60	7"	8"ø		30	NONE	NOTE: 7	NONE	NOTE: 1,6
EF-2	FAN AMERICA ICF-150	INLINE	CHLORINE	-	150	0.25"	2800	27W	120/1/60	7"	8"ø		30	NONE	NOTE: 7	NONE	NOTE: 1,6
EF-3	GREENHECK SP-A200	CEILING	FAMILY CH 102	4.0	150	0.50"	900	16W	120/1/60	11"	12"	14"	24	NOTE: 5	NOTE: 8	NOTE: 2	NOTE: 1,3
EF-4	GREENHECK SP-A510-VG	CEILING	STORAGE 104	4.9	350	0.50"	1245	1/15	120/1/60	15"	14"	18"	31	NOTE: 5	NOTE: 8	NOTE: 2	NOTE: 1,3
EF-5	GREENHECK SP-A510-VG	CEILING	POOL MECH	6.8	500	0.50"	1414	1/15	120/1/60	15"	14"	18"	31	NOTE: 5	NOTE: 4	NOTE: 2	NOTE: 1,3

NOTES:
1. PROVIDE WITH MANUFACTURER'S ELECTRICAL DISCONNECT.
2. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.
3. PROVIDE WITH EC MOTOR. PROVIDE MOTOR MOUNTED SPEED SWITCH FOR FAN BALANCING
4. FAN SHALL OPERATE VIA A REVERSE ACTING THERMOSTAT TO MAINTAIN 75 DEGREES.
5. PROVIDE RUBBER IN SHEAR VIBRATION ISOLATION.
6. ALL PLASTIC CORROSION RESISTANT CHEMICAL EXHAUST FAN
7. FAN SHALL OPERATE CONTINUOUSLY WHILE CHEMICALS ARE IN STORAGE.
8. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE TIME CLOCK TO OPERATE DURING OCCUPIED HOURS.

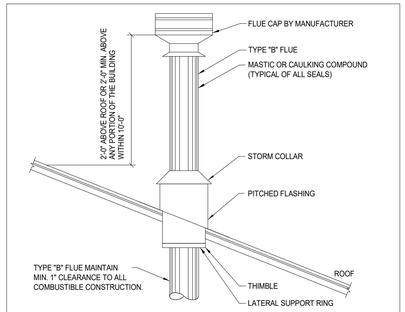
GRILLES, REGISTERS & DIFFUSERS SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	FACE SIZE	NECK SIZE	SLOT WIDTH/ NO. OF SLOTS	M.V.D.	MOUNTING	FINISH	MATERIAL	REMARKS
ER-1	PRICE 630	EXHAUST	NECK + 1.75"	AS NOTED	-	YES	SURFACE	WHITE	ALUMINUM	NOTE: 1

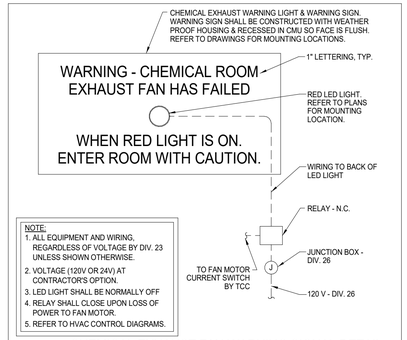
NOTES:
1. TRIM KIT FOR HARD LID CEILING WHERE REQUIRED.



3 M700 EXHAUST FAN - CEILING
SCALE: NONE



2 M700 FLUE THRU SLOPED ROOF DETAIL
SCALE: NONE



1 M700 CHEMICAL EXHAUST FAN WARNING SIGNAL DETAIL
SCALE: 1/8" = 1' - 0"

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3300 Huron Peak Avenue
Superior, CO 80027

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED PETER W. FARRELL 0048239 PROFESSIONAL ENGINEER 3/26/2026

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HVAC SCHEDULES AND DETAILS

M700

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GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
	E	PIPE CAP
		GAUGE
	T	PRESSURE GAUGE WITH COCK
		PIPE UNION
		STRAINER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

PLUMBING LEGEND

ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
EWC		ELECTRIC WATER COOLER
DF		DRINKING FOUNTAIN
GDU		GARBAGE DISPOSAL UNIT
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP/TS		TRAP PRIMER/TRAP SEAL
PP		PLUMBING CIRC. PUMP
SP		SUMP PUMP
SE		SEWAGE EJECTOR
PET		PLUMBING EXPANSION TANK
GWH		GAS WATER HEATER
EWH		ELECTRIC WATER HEATER
ST		STORAGE TANK
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
GPM		GALLON PER MINUTE
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
CW	(NP)	COLD WATER NON POTABLE
G	G	NATURAL GAS
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
GW	GW	GREASE WASTE
V		SANITARY VENT
RDL	RDL	ROOF DRAIN ABOVE FLOOR OR GRADE
ODL	ODL	OVERFLOW DRAIN LEADER ABOVE FLOOR OR GRADE
SD		STORM DRAIN BELOW FLOOR OR GRADE
CD	CD	CONDENSATE DRAIN PIPING
LS	LS	LAWN SPRINKLER
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO	OR	WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
TMV		THERMOSTATIC MIXING VALVE
		PIPE GUIDE
		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
HB/WH	OR	HOSE BIBB/WALL HYDRANT
VTR		VENT THRU ROOF
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
TD		TRENCH DRAIN
RD/OD		ROOF DRAIN/OVERFLOW DRAIN
DSN		DOWNSPOUT NOZZLE
		SPLASH BLOCK
		SPLASH BLOCK WITH DOWNSPOUT NOZZLE

SHEET INDEX

SHEET NUMBER	PLUMBING SHEET TITLE	SHEET SCALE
P000	PLUMBING COVER SHEET	NONE
P021	PLUMBING DEMOLITION PLAN	1/4" = 1'-0"
P090	OVERALL PLUMBING PLAN	1" = 10'-0"
P100	FOUNDATION PLUMBING PLAN	1/4" = 1'-0"
P101	FIRST FLOOR PLUMBING PLAN	1/4" = 1'-0"
P600	PLUMBING SCHEDULES	NONE
P700	PLUMBING DETAILS	NONE
P800	PLUMBING ISOMETRICS	NONE

PLUMBING DEMOLITION GENERAL NOTES

1. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
2. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
3. EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
4. ALL PLUMBING ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE PLUMBING CONTRACTOR.
5. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
6. THE REMOVAL OR INSTALLATION OF FIXTURES, PIPES AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE PLUMBING CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE CONTRACTOR SHALL REVIEW THE PLUMBING DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
7. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED PLUMBING TO MATCH EXISTING CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.

PLUMBING GENERAL NOTES

1. FIELD VERIFY EXACT LOCATION OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
2. ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
3. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
4. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
5. PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
6. REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
7. ALL STORM DRAINAGE PIPING WITHIN THE BOUNDARIES OF THE BUILDING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
8. ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
9. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
10. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
11. PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
12. PROTECT ALL EXISTING EQUIPMENT INDICATED AS REMAINING IN PLACE OR BEING RELOCATED. REPLACE DAMAGED EQUIPMENT IMMEDIATELY WITH EXACT DUPLICATE AT NO ADDITIONAL COST TO THE OWNER.
13. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND PROTECTING ALL EXISTING PIPING AND UTILITIES FOR THE DURATION OF THE WORK. ANY DAMAGE CAUSED TO EXISTING PIPING OR UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
14. PROVIDE SURESEAL TRAP SEALS ON ALL FLOOR DRAINS PER CODE WHERE EVAPORATION OR LOSS OF TRAP SEAL WILL OCCUR.
15. ALL GAS PIPING, VALVES, PRV, ETC. SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL FUEL GAS CODE.
16. CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.

WINTERIZATION GENERAL NOTES

1. CONTRACTOR TO PROVIDE OWNER WINTERIZATION PLAN AND DRAWINGS WITH STEP BY STEP PROCEDURE AT END OF THE PROJECT.
2. PROVIDE PROCEDURE LAMINATED AND LOCATED IN MECHANICAL/POOL EQUIPMENT ROOM. ALSO PROVIDE IN OPERATION AND MAINTENANCE MANUAL.
3. THE FOLLOWING IS A LIST OF ITEMS TO BE INCLUDED IN THIS PLAN, BUT NOT LIMITED TO:
   - A. ALL WATER PIPING SHALL SLOPE TO THE MECHANICAL ROOM FOR EASE OF WINTERIZATION.
   - B. SLOPE PIPING SO AS NOT TO CREATE LOW SPOTS. IF LOW SPOTS ARE CREATED, PROVIDE DRAIN VALVE AND LOCATE ON DRAWINGS. NO EXPOSED, ACCESSIBLE VALVES OPEN TO THE PUBLIC.
   - C. STRATEGIC PLACEMENT OF HOSE BIBBS AND WALL HYDRANTS WILL FACILITATE WINTERIZATION.
   - D. PROVIDE DRAIN DOWN POINTS AT CONVENIENT LOCATIONS WITH BALL VALVES AND HOSE CONNECTIONS.
   - E. LOCATE DRAIN DOWN PATH AND ALL VALVES ON PLAN FOR MAINTENANCE PERSONNEL.
   - F. NOTE TO REMOVE ALL EQUIPMENT, VALVES, ETC., THAT COULD HAVE REMAINING WATER THAT COULD FREEZE. SUCH AS WATER HEATER CONTROL TUBING, TMV, FLUSH VALVES, FAUCET, DRINKING FOUNTAIN TUBING/FILTERS, PUMPS AND FILTERS, ETC.
   - G. INDICATE P-TRAPS SHOULD BE REMOVED OR POTABLE (RV) ANTIFREEZE DUMPED IN FIXTURES. FIXTURES WITH INTGRAL TRAPS SHOULD HAVE POTABLE (RV) ANTIFREEZE DUMPED IN.
   - H. ALL PIPING SHOULD BE BLOWN OUT WITH COMPRESSED AIR AND LOCATE THESE CONNECTION POINTS AND DRAIN LOCATION. BLOWDOWN LOCATION SHALL BE IN POOL MECHANICAL ROOM.
   - I. INDICATE ALL FAUCETS SHOULD BE LEFT OPEN.

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2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED PROFESSIONAL ENGINEER
WILLIAM M. BALLARD
0048239
3/26/2026

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PLUMBING COVER SHEET

P000

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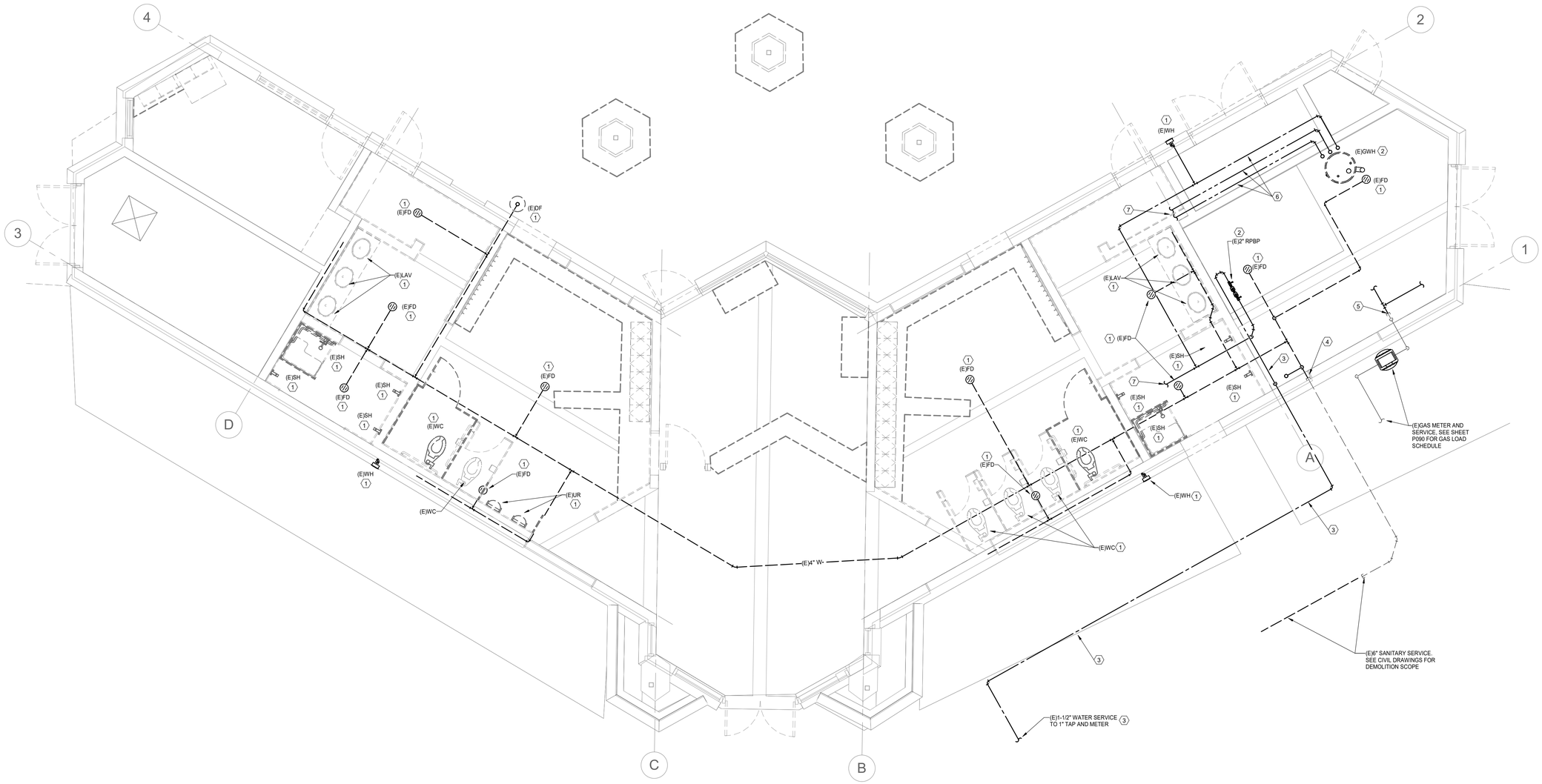
PLUMBING DEMOLITION KEYNOTES:

1. REMOVE (E)PLUMBING FIXTURE AND ALL ASSOCIATED PIPING.
2. REMOVE (E)EQUIPMENT AND ALL ASSOCIATED PIPING.
3. REMOVE (E)WATER SERVICE INTO BUILDING AND ALL ASSOCIATED DOWNSTREAM PIPING.
4. REMOVE (E)SANITARY/WASTE PIPING DOWNSTREAM OF THIS LOCATION. CAP FOR NEW CONNECTIONS.
5. REMOVE EXISTING GAS PIPING DOWNSTREAM OF THIS LOCATION. CAP FOR NEW CONNECTIONS.
6. REMOVE (E)WATER PIPING.
7. ALL DOWNSTREAM PIPING SERVING ALL FIXTURES TO BE REMOVED.



PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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PLUMBING DEMOLITION PLAN

P021

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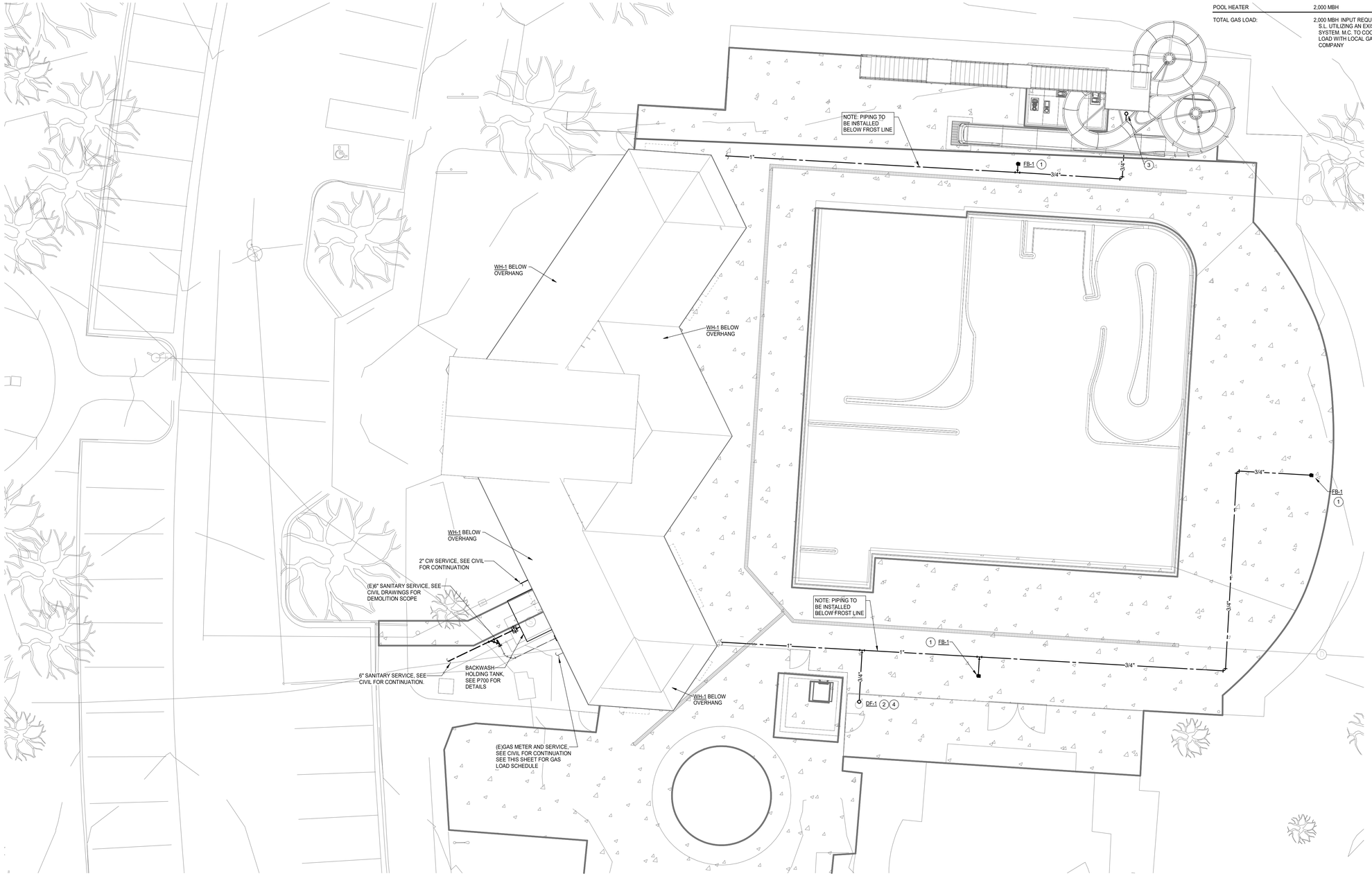
GENERAL NOTE: SEE CIVIL FOR DECK DRAINAGE

OVERALL PLUMBING KEYNOTES:

1. 3/4" CW TO FB.
2. 3/4" CW TO DF.
3. 3/4" CW RISE TO FB @ TOP OF SLIDE. RISER LOCATION TO MOUNT ON COLUMN. COORDINATION IN FIELD FOR RISER LOCATION AND FB LOCATION.
4. REMOVE (E)DF AND ASSOCIATED PIPING.

GAS LOAD SCHEDULE:

APPLIANCE:	LOAD:
POOL HEATER	2,000 MBH
TOTAL GAS LOAD:	2,000 MBH INPUT REQUIRED AT S.L. UTILIZING AN EXISTING 2 PSI SYSTEM. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY



OVERALL PLUMBING PLAN

SCALE: 1" = 10'-0"

BARKER RINKER SEACAT ARCHITECTURE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514

COLORADO LICENSED PETER WILLIAM BALLARD 0048239 PROFESSIONAL ENGINEER 3/26/2026

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 26, 2026
Drawn By:	JMS
Checked By:	JMB

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OVERALL PLUMBING PLAN

P090

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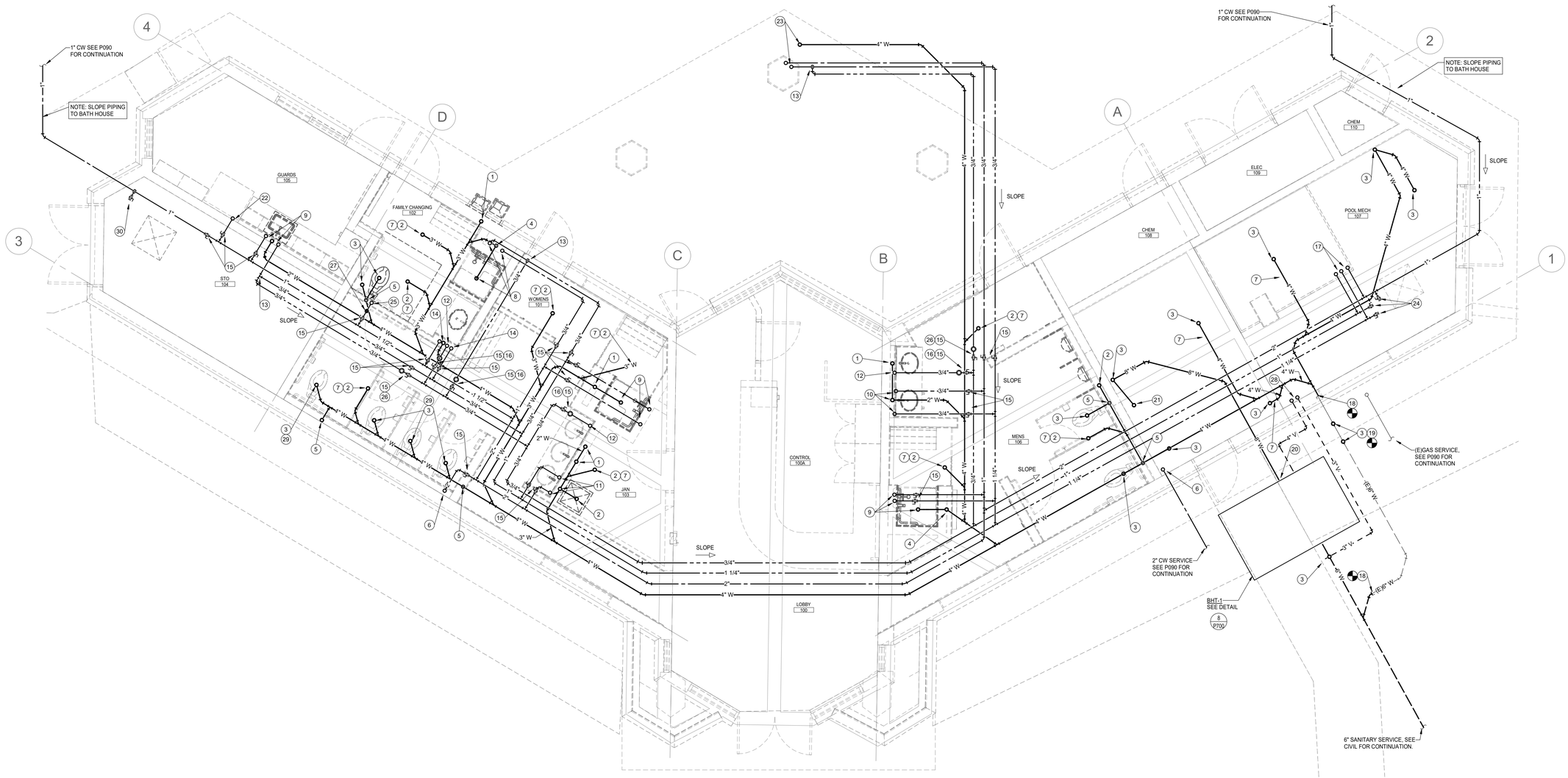
PLUMBING KEYNOTES:

1. 2" W. RISE TO FLOOR ABOVE.
2. 3" W. RISE TO FLOOR ABOVE.
3. 4" W. RISE TO FLOOR ABOVE.
4. 1-1/2" V. RISE TO FLOOR ABOVE.
5. 2" V. RISE TO FLOOR ABOVE.
6. 2" CW RISE TO FLOOR ABOVE.
7. COMBINATION WASTE AND VENT SYSTEM.
8. 2" W., 3/4" CW & 1/2" HW RISE TO FLOOR ABOVE.
9. 2" W., 1/2" CW & 1/2" HW RISE TO FLOOR ABOVE.
10. 2" W., 3/4" CW & 3/4" HW RISE TO FLOOR ABOVE.
11. 2" W., 1" CW & 1" HW RISE TO FLOOR ABOVE.
12. 3/4" HWC RISE TO FLOOR ABOVE.
13. CONNECT 3/4" HWC TO HW PIPING AS SHOWN.
14. 2" W., 1/2" CW & 3/4" HW RISE TO FLOOR ABOVE.
15. BALL VALVE, FULL SIZED.
16. 1/2" BALANCING VALVE, BALANCE TO 0.5 GPM.
17. 2" CW, 1-1/4" HW & 1" HWC RISE TO FLOOR ABOVE.
18. CONNECT 6" W. TO (E)PIPING AS SHOWN.
19. CONNECT 4" W. TO (E)PIPING AS SHOWN.
20. 8" DISCHARGE INTO BACKWASH HOLDING TANK.
21. 8" W. RISE TO FLOOR ABOVE.
22. 1/2" CW RISE TO FLOOR ABOVE.
23. 4" W., 3/4" CW & 3/4" HW RISE TO FLOOR ABOVE.
24. CW/HW/HWC PIPING TO SLOPE BACK TO THIS POINT. FULL SIZED DRAIN DOWN VALVES TO SUPPORT WINTERIZATION OF THE BATHOUSE. OWNER TO DRAIN PIPING INTO A BUCKET AND PUMP TO THE PUMP PIT USING A SELF SUPPLIED SUMP PUMP.
25. 1" CW RISE TO FLOOR ABOVE.
26. 3/4" BALANCING VALVE, BALANCE TO 1.0 GPM, WITH ACCESS.
27. SHOCK ABSORBER, CLASS "A" W/ BALL VALVE.
28. 3" V. & 4" V. RISE TO FLOOR ABOVE.
29. CIRCUIT VENTED FIXTURE.
30. CW PIPING TO SLOP BACK TO THIS POINT. FULL SIZED DRAIN DOWN VALVE TO SUPPORT WINTERIZATION OF THE BATHHOUSE. OWNER TO DRAIN PIPING INTO A BUCKET AND PUMP OUT TO GRADE USING A SELF SUPPLIED SUMP PUMP.



FOUNDATION PLUMBING PLAN

SCALE: 1/4" = 1'-0"

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FOUNDATION PLUMBING PLAN

P100

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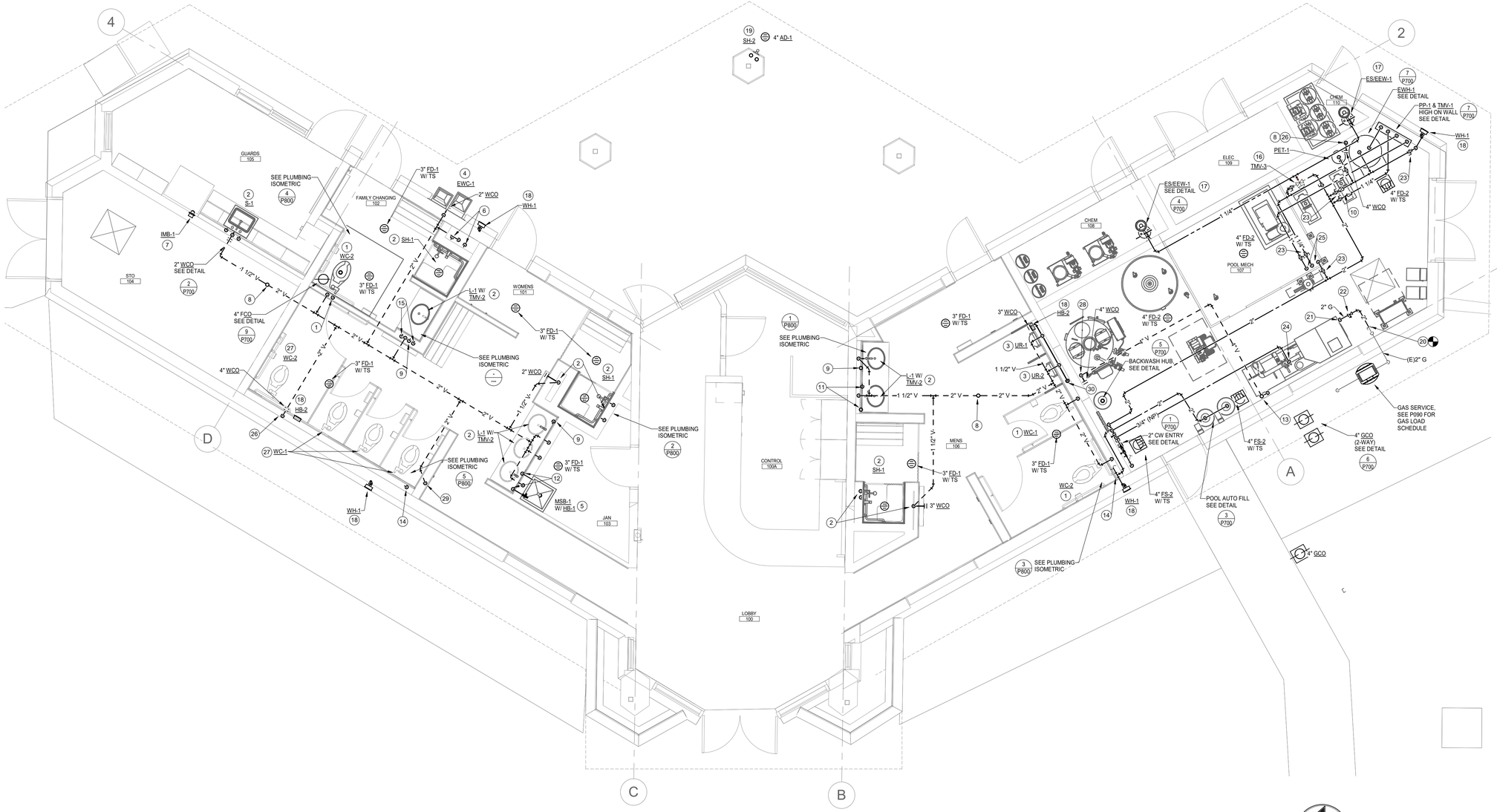
PLUMBING KEYNOTES:

1. 4" W. DOWN, 2" V. RISE, 1" CW TO WC.
2. 2" W. DOWN, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAV/SINK/SHOWER.
3. 2" W. DOWN, 1-1/2" V. RISE, 3/4" CW TO UR.
4. 2" W. DOWN, 1-1/2" V. RISE, 1/2" CW TO EWC.
5. 3" W. DOWN, 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO MSB. 3/4" CW TO HB @ 60" ABOVE BASIN.
6. 3/4" CW & 1/2" HW RISE FROM FLOOR BELOW.
7. 1/2" CW TO IMB.
8. 2" V. RISE TO 3" VTR.
9. 3/4" HWC RISE FROM BELOW, CONNECT TO HW WITHIN 2' OF FIXTURE STOP.
10. CHECK VALVE, FULL SIZED.
11. 3/4" CW & 3/4" HW RISE FROM FLOOR BELOW.
12. 1" CW & 1" HW RISE FROM FLOOR BELOW & OFFSET TO FIXTURES.
13. 4" V. RISE TO 4" VTR.
14. 2" CW RISE FROM FLOOR BELOW & OFFSET TO FIXTURES.
15. 1/2" CW & 3/4" HW RISE FROM FLOOR BELOW.
16. 1-1/4" CW & 1-1/4" HW TO TMV-3, 1-1/4" TEPID HW TO FIXTURES.
17. 1-1/4" TEPID HW TO ES/ EEW. ANY PIPING WITHIN CHEMICAL ROOMS SHALL BE SCH. 40 CPVC WITH SOLVENT WELDED FITTINGS FOR CORROSION RESISTANCE.
18. 3/4" CW TO WH/HB.
19. 1/2" CW & 1/2" HW TO SHOWER.
20. CONNECT 2" GAS TO (E)PIPING AS SHOWN.
21. CONNECT 2" GAS TO UNIT WITH ACCESSIBLE GAS COCK AND 6" DIRT LEG.
22. GAS PRV. VENTLESS. 2,000 MBH INPUT AT S.L. 2 PSI. TO 10" WC OUTLET.
23. BALL VALVE, FULL SIZED, WITH SERVICE ACCESS.
24. CONNECT 3/4" CW TO BOILER FOR MAKE-UP. COORDINATE LOCATION IN FIELD.
25. 2" CW, 1-1/4" HW & 1" HWC DOWN TO FLOOR BELOW.
26. 4" W. DOWN, 2" V. RISE FOR FS.
27. 4" W. DOWN, & 1" CW TO CIRCUIT VENTED WC.
28. 4" W. DOWN, 4" V. RISE FOR BACKWASH STANDPIPE.
29. 2" V. DOWN TO FLOOR BELOW.
30. 3" W. DOWN TO FLOOR BELOW.



FIRST FLOOR PLUMBING PLAN

SCALE: 1/4" = 1'-0"

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FIRST FLOOR PLUMBING PLAN

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PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET (FLOOR MOUNTED) - 1.28 GPF - BATTERY	AMERICAN STANDARD	2234.001	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTES: 8,11
WC-2	WATER CLOSET (ACCESSIBLE) (FLOOR MOUNTED) - 1.28 GPF - BATTERY	AMERICAN STANDARD	3461.001	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTES: 9,10,11
UR-1	URINAL (0.125 GPF) (WALL HUNG) - MANUAL	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	186-0.125	CHROME	NOTES: 5,12
UR-2	URINAL (0.125 GPF) (WALL HUNG) - MANUAL	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	186-0.125	CHROME	NOTES: 5,9
L-1	LAVATORY (ACCESSIBLE) (UNDERCOUNTER) - 0.5 GPM - BATTERY	AMERICAN STANDARD	0495.221	WHITE	FAUCET	CHICAGO	EAF-250	CHROME	NOTES: 1,3
S-1	SINK (ACCESSIBLE) (UNDERMOUNT) - DOUBLE COMP - 1.5 GPM	ELKAY	ELUHAD3618	STAINLESS STEEL	FAUCET	CHICAGO	434-ABCP	CHROME	NOTES: 1,2
MSB-1	MOP SERVICE BASIN	FIAT	MSB2424	WHITE	FAUCET	CHICAGO	445-RC897SXKCP	CHROME	NOTES: 6
DF-1	DRINKING FOUNTAIN	MURDOCK	GYE24	STAINLESS STEEL	-	-	-	-	NOTES: 1
DF-2	DRINKING FOUNTAIN	MURDOCK	GYQ84-MO-IAP	STAINLESS STEEL	-	-	-	-	-
SH-1	SHOWER (ACCESSIBLE) (1.5 GPM) (1) FIXED AND (1) HANDHELD HEAD	BY G.C.	-	-	VALVE HEAD	BRADLEY MOEN	HN300-HD-SF-ST-A24-NS-AP-BP 52716EP15	CHROME	NOTES: 7
SH-2	SHOWER (ACCESSIBLE) (1.5 GPM) (1) HANDHELD HEAD	BY G.C.	-	-	VALVE	BRADLEY	1C-AST-ST-A24-HS	CHROME	NOTES: 7
GDU-1	GARBAGE DISPOSAL UNIT	IN-SINK-ERATOR	BADGER 5	-	-	-	-	-	1/2 H.P. 120/60/1
ES/EEW-1	EMERGENCY SHOWER/EYEWASH	GUARDIAN GUARDIAN	G1643 G1790	PVC PVC	SHOWER EYE/FACE WASH	-	-	-	-

NOTES:
1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH L.K. STOPS.
2. GRID STRAINER, 1.5 GPM, INSULATION KIT.
3. GRID STRAINER, 0.5 GPM, INSLATION KIT.
4. 1/5 H.P., 120/60/1.
5. W/ CARRIER.
6. VACUUM BREAKER, CHECK STOPS WITH HB-1.
7. COORDINATE HEAD HEIGHTS WITH ARCH.
8. MOUNT AT 15" AFF.
9. MOUNT AT 17" AFF.
10. HANDLE ON ACCESS SIDE OF TOILET.
11. BATTERY OPERATED FLUSH VALVE.
12. MOUNT @ 24" AFF.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE		VENT	COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	(MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	-	
UR	URINAL	INT.	2"	1-1/2"	3/4"	3/4"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
S	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
EWC/DF	ELEC. WATER COOLER/DRINKING FOUNT.	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WH/HB	WALL HYDRANT	-	-	-	3/4"	3/4"	-	-	
ES/EEW	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	-	1-1/4"	-	TEPID WATER
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"	

MISCELLANEOUS PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-12C	STEEL	-
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY	S59-2025	ROUGH BRASS	NOTE: 2
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY	S59-4000	ROUGH BRASS	NOTE: 3
TMV-3	THERMOSTATIC MIXING VALVE	BRADLEY	S19-2100	ROUGH BRASS	NOTE: 1
BHT-1	BACKWASH HOLDING TANK	NWPX PARK	HT-1250	ROUGH BRASS	-

NOTES:
1. ASSE 1071, SET TO 80° F.
2. ASSE 1017, SET TO 120 ° F.
3. ASSE 1070, SET TO 110 ° F.

PLUMBING PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP (BHP)	VOLTS	PH	RPM				
PP-1	GRUNDFOS MAGNA3 32-60	IN-LINE	HWC	-	4.0	14.5'	-	1.61 A	115	1	-	INTEGRAL	DDC	12	NOTE: 1,2

NOTES:
1. DDC, OCCUPIED/UNOCCUPIED.
2. RUN IN CONSTANT VOLUME MODE.

WATER HEATER SCHEDULE (ELECTRIC)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 100' RISE	KW/ INPUT	ELECTRICAL			NO. ELEM.	KW/ ELEM.	TANK SIZE		OPER. WEIGHT	REMARKS
					VOLTS	CYCLE	PHASE			DIA.	HT.		
EWH-1	A.O. SMITH DVE-120-12	119	49	12	208	1	3	3	4	29-1/2"	62-1/4"	1,390 LBS	NOTE:1,2,3

NOTES:
1. SET TO 140 ° F.
2. PROVIDE WITH PET.
3. 41.6 AMPS

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PLUMBING SCHEDULES

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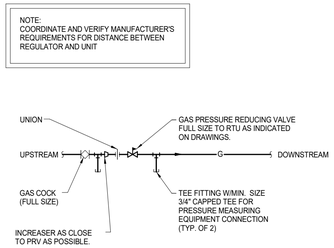
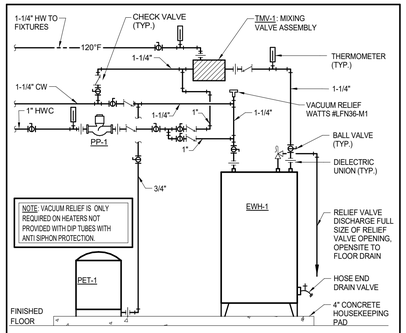
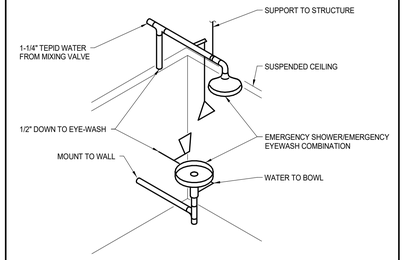


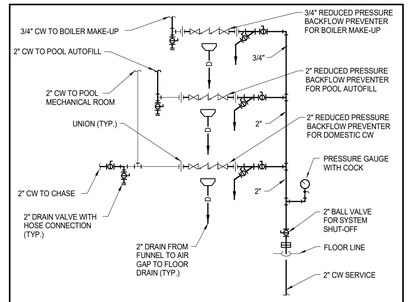
10 P700 GAS PRESSURE REGULATING VALVE PIPING DETAIL
SCALE: NONE



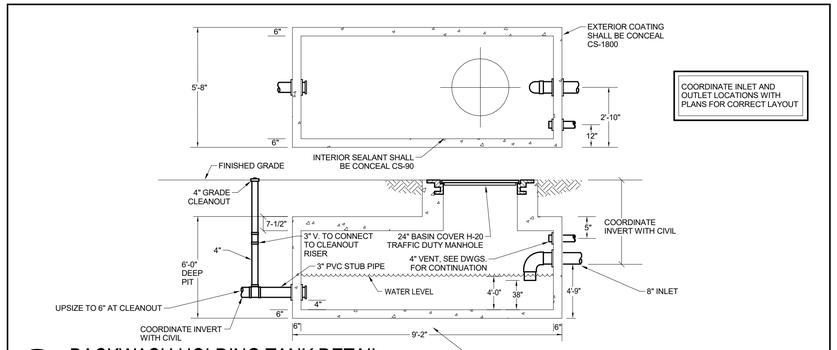
7 P700 ELECTRIC WATER HEATER DETAIL
SCALE: NONE



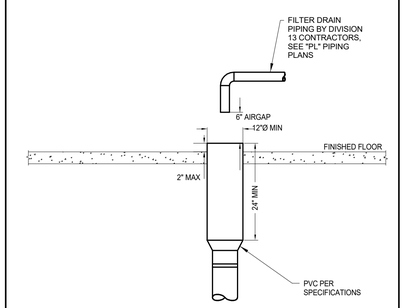
4 P700 EMERGENCY SHOWER/EMERGENCY EYEWASH DETAIL
SCALE: NONE



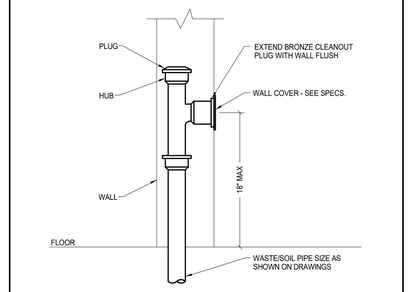
1 P700 DOMESTIC CW ENTRY PIPING DETAIL
SCALE: NONE



8 P700 BACKWASH HOLDING TANK DETAIL
SCALE: NONE (SIDE)



5 P700 POOL BACKWASH STANDPIPE DETAIL
SCALE: NONE



2 P700 WALL CLEANOUT DETAIL
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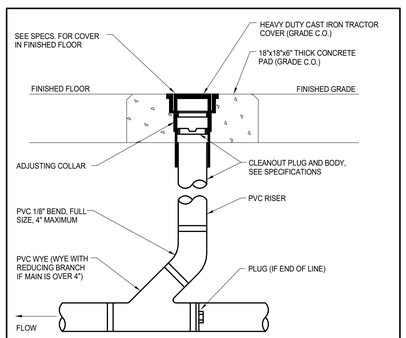
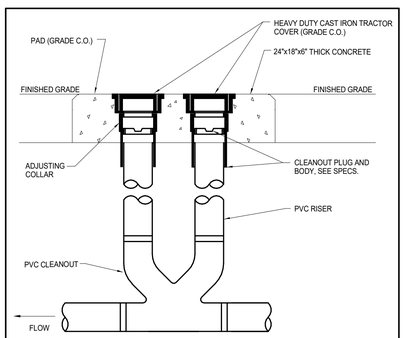
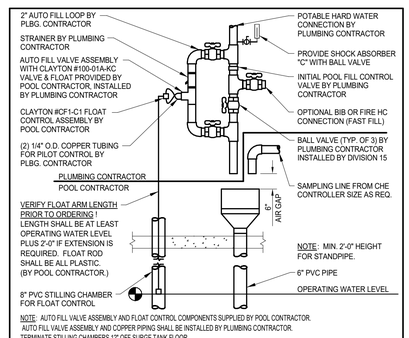


9 P700 FLOOR CLEANOUT DETAIL
SCALE: NONE



6 P700 GRADE CLEANOUT (2-WAY)
SCALE: NONE



3 P700 POOL AUTO FILL DETAIL
SCALE: NONE

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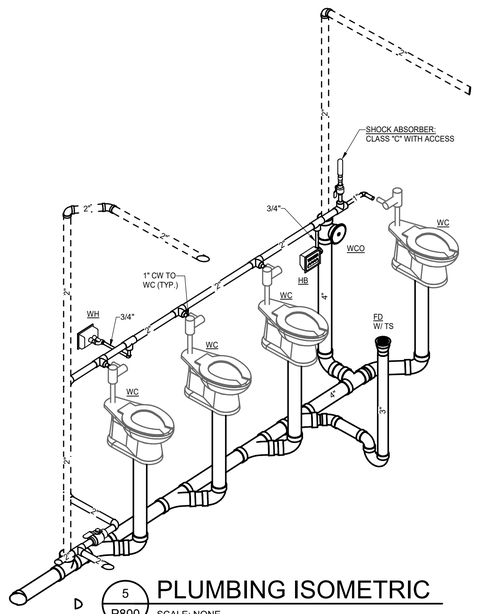
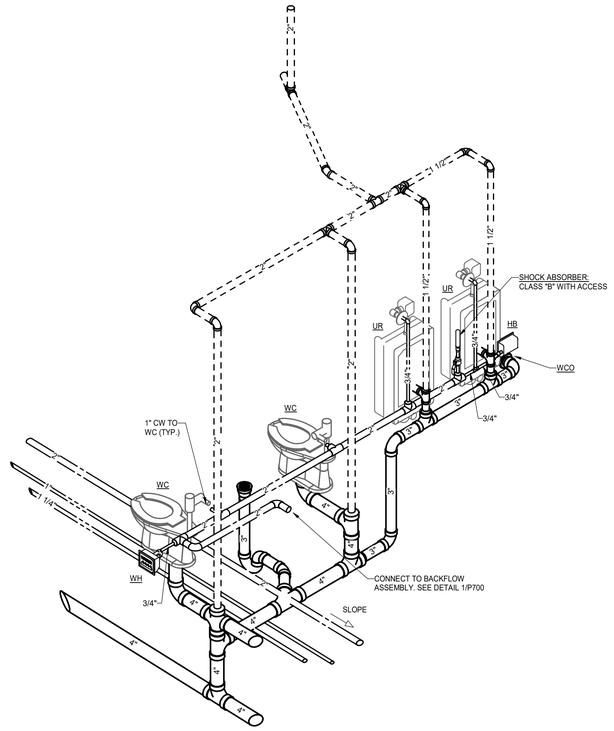


5 P800 PLUMBING ISOMETRIC
SCALE: NONE



3 P800 PLUMBING ISOMETRIC
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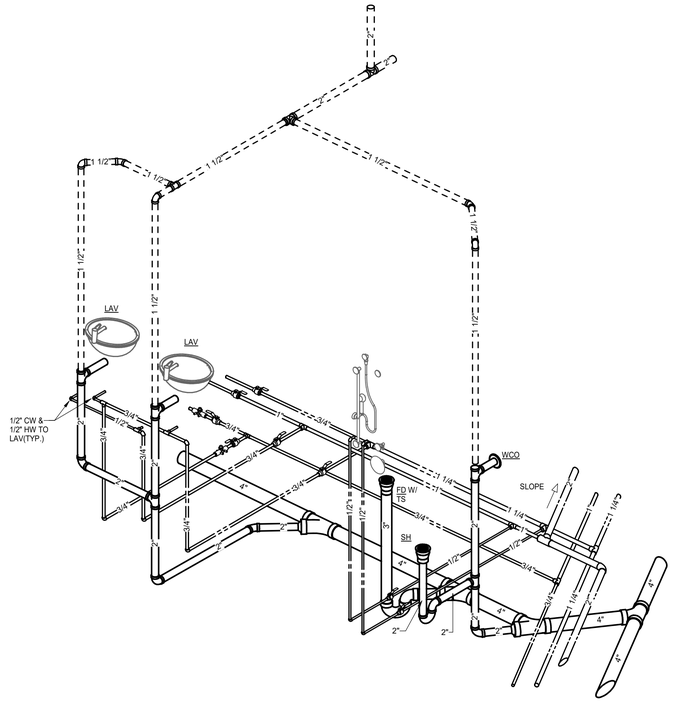
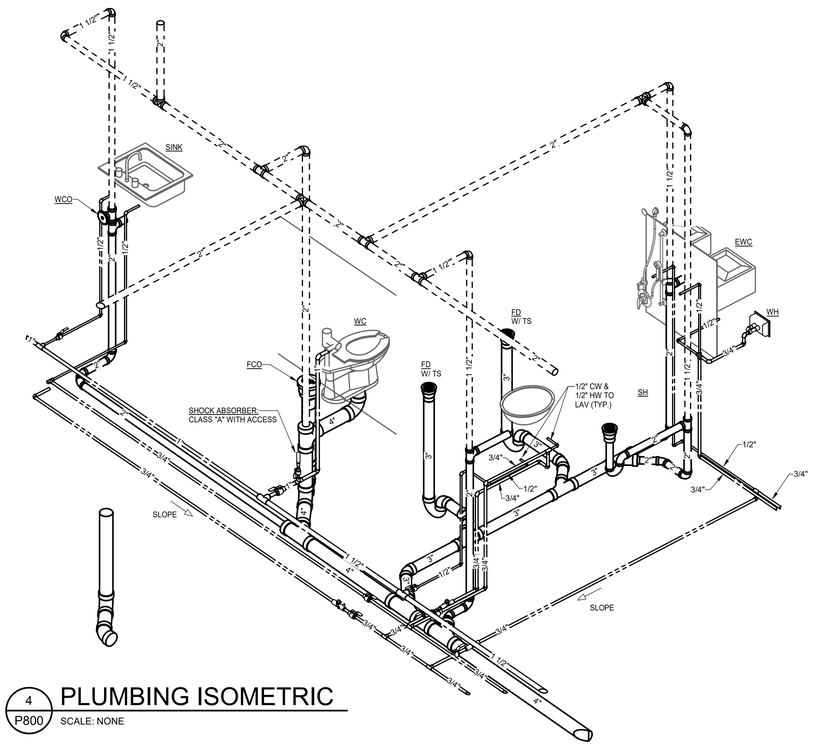
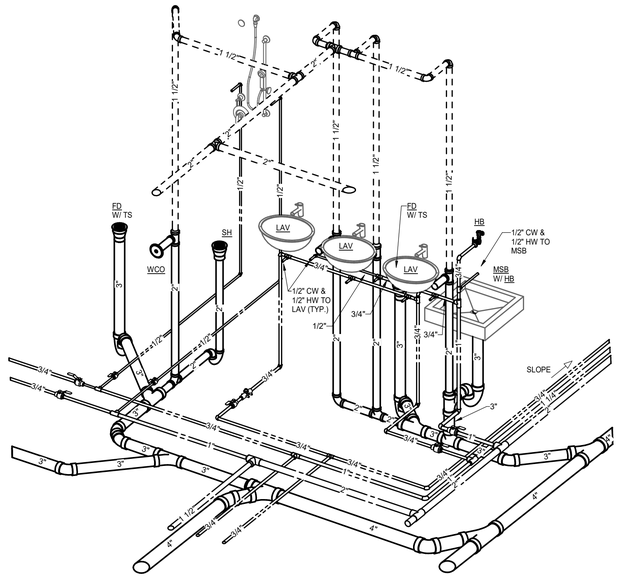


1 P800 PLUMBING ISOMETRIC
SCALE: NONE



4 P800 PLUMBING ISOMETRIC
SCALE: NONE



2 P800 PLUMBING ISOMETRIC
SCALE: NONE

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PLUMBING ISOMETRICS

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ELECTRICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS

A	AMPERE(S)
AC	ABOVE COUNTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AIC	AMPERES INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DISC	DISCONNECT
DIST	DISTRIBUTION
(E)	EXISTING, TO REMAIN - MAINTAIN CIRCUIT CONTINUITY TO EXISTING DEVICES. FOR LUMINAIRES IN AREA OF WORK, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMP'S COLOR TEMPERATURE. FOR WIRING DEVICES IN AREA OF WORK, CLEAN FACEPLATES, UNLESS OTHERWISE NOTED.
EC	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT
EF	EXHAUST FAN
(ER)	EXISTING TO RELOCATE - MAINTAIN CIRCUIT CONTINUITY TO DEVICES. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION.
EM	EMERGENCY
(EP)	EXISTING POSITION TO REMAIN, REMOVE EXISTING DEVICE FOR REPLACEMENT. REFERS TO LUMINAIRES, TELECOM DEVICES, SWITCHES, RECEPTACLES, FIRE ALARM DEVICES, ETC. UON. MAINTAIN EXISTING WIRING, OUTLET BOX, RACEWAY, ETC. FOR INSTALLATION OF NEW EQUIPMENT. TELECOM WIRE SHALL BE REMOVED.
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
(EX)	EXISTING, REMOVE - MAINTAIN CIRCUIT CONTINUITY DURING AND AFTER DEMOLITION TO EXISTING CIRCUITS AND DEVICES TO REMAIN. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION.
F	FUSE
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HORIZ	HORIZONTAL
HP	HORSEPOWER
IDF	INTERMEDIATE DATA FRAME
IG	ISOLATED GROUND
KV	KILOVOLTS
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDC	MAIN DISTRIBUTION CENTER
MDF	MAIN DATA FRAME
MLO	MAIN LUGS ONLY
MV	MEDIUM VOLTAGE
NL	NIGHT LIGHT/SECURITY LIGHT, CONNECT LIGHTS AHEAD OF LOCAL SWITCHING TO OPERATE CONTINUOUSLY
(NP)	NEW DEVICE AT EXISTING POSITION. PROVIDE NEW LUMINAIRE, TELECOM DEVICE, SWITCH, RECEPTACLE, FIRE ALARM DEVICE, ETC. IN THE SAME LOCATION (ITEM REMOVED AT DEMO). UON, REUSE EXISTING WIRING, OUTLET BOX, RACEWAY, ETC. TO THE EXTENT POSSIBLE. TELECOM WIRING SHALL BE NEW.
OAE	OR APPROVED EQUAL
OH	OVERHEAD
P	POLE
PH	PHASE
PNL	PANEL
REC	RECEPTACLE
(RL)	RELOCATED - MAINTAIN CIRCUIT CONTINUITY TO NEW LOCATION OF EXISTING DEVICE(S). REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE RELOCATION. FOR LUMINAIRES, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMP'S COLOR TEMPERATURE. FOR WIRING DEVICES, PROVIDE NEW DEVICE AND FACEPLATE UNLESS OTHERWISE NOTED.
SW	SWITCH
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TV	TELEVISION OUTLET - REFER TO DETAILS
UC	UNDERCOUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
VA	VOLT AMPERES

ABBREVIATIONS (CONTINUED)

W	WATT(S) OR WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

COMMUNICATIONS SYMBOLS

- TELECOMMUNICATIONS OUTLET
  A - (1) VOICE
  B - (1) DATA / (1) COAX / (1) VOICE
  C - (1) VOICE / (1) DATA
  D - (1) VOICE / (2) DATA
  E - (2) VOICE / (2) DATA
  W - (1) VOICE, WITH WALL MOUNT COVER
- IN-FLOOR TELECOMMUNICATIONS OUTLET (VOICE/DATA/OTHER AS DEFINED ABOVE)
- CEILING SPEAKER
- WALL MOUNTED SPEAKER
- INTERCOM STATION
- VOLUME CONTROL STATION
- MICROPHONE JACK
- AMPLIFIER
- CCTV — CLOSED-CIRCUIT TELEVISION CAMERA
- AC XX — CENTRALLY ACCESS CONTROLLED DOOR
- CR — ACCESS CONTROL SYSTEM CARD READER
- CR K — ACCESS CONTROL SYSTEM CARD READER/ KEYPAD COMBINATION DEVICE
- DC — DOOR CONTACT
- EL — ELECTRIC LOCK, ELECTRIC STRIKE OR ELECTRIC HINGE TRANSFER
- K — KEY PAD
- ML — MAGNETIC LOCK
- B — DOOR BELL CHIME
- WIRELESS ACCESS POINT. PROVIDE 3/4" CONDUIT WITH PULL WIRE BACK TO TELECOM AREA CEILING

FIRE ALARM SYSTEM SYMBOLS

- F — FIREMAN'S PHONE JACK
- BT — BEAM DETECTOR TRANSMITTER
- BR — BEAM DETECTOR RECEIVER
- REMOTE INDICATOR LIGHT (T = WITH TEST SWITCH)
- S — SMOKE DETECTOR
- SR — SMOKE DETECTOR IN RESIDENT ROOM, WITH INTEGRAL SOUNDER BASE
- SS — SINGLE STATION SMOKE DETECTOR (TANDEM-WIRED)
- S — WALL MOUNTED SMOKE DETECTOR
- T — THERMAL DETECTOR
- SCO — SMOKE DETECTOR WITH INTEGRAL CARBON MONOXIDE DETECTION
- D — DUCT DETECTOR
- AUDIBLE/VISUAL NOTIFICATION DEVICE
- AUDIBLE NOTIFICATION DEVICE
- V — VOICE/VISUAL NOTIFICATION DEVICE
- V — VOICE NOTIFICATION DEVICE
- S — VISUAL NOTIFICATION DEVICE
- MANUAL PULL STATION
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- PS — PRESSURE SWITCH
- MH — MAGNETIC DOOR HOLDER
- FS — SMOKE DAMPER OR FIRE/SMOKE DAMPER
- FA — FIRE ALARM INTERLOCK
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- CEILING MOUNTED AUDIBLE/VISUAL NOTIFICATION DEVICE
- CEILING MOUNTED VISUAL NOTIFICATION DEVICE
- CEILING MOUNTED VOICE NOTIFICATION DEVICE
- CEILING MOUNTED VOICE/VISUAL DEVICE
- RA — RESCUE ASSISTANCE COMMUNICATION STATION

LEGEND NOTES

A. NOT ALL SYMBOLS SHOWN ON THIS LEGEND WILL NECESSARILY BE USED ON THE ELECTRICAL DRAWINGS.

B. DEVICES AND SYMBOLS ARE NOT NECESSARILY SHOWN TO SCALE.

REFERENCE SYMBOLS

- ??-? — EQUIPMENT DESIGNATION
- ? — REVISION DESIGNATION
- ?? — KEY NOTE DESIGNATION
- ? / ??? — ENLARGED PLAN DESIGNATION
- NORTH ARROW

LIGHTING SYMBOLS

- CEILING LUMINAIRE - SURFACE MOUNT
- CEILING LUMINAIRE - RECESS MOUNT
- CEILING LUMINAIRE - RECESS MOUNT
- WALL MOUNT LUMINAIRE
- PENDANT MOUNT LUMINAIRE
- WALL WASH LUMINAIRE - SURFACE MOUNT
- WALL WASH LUMINAIRE - RECESS MOUNT
- TROFFER LUMINAIRE - SURFACE MOUNT
- TROFFER LUMINAIRE - RECESS MOUNT
- LINEAR PENDANT LUMINAIRE - FILLED CIRCLE INDICATES POWER FEED END (LENGTH AS SHOWN ON DRAWINGS)
- STRIP LUMINAIRE / UNDER CABINET LUMINAIRE (LENGTH AS SHOWN ON DRAWINGS)
- COVE OR SLOT LUMINAIRE (LENGTH AS SHOWN ON DRAWINGS)
- SINGLE FACE EXIT LUMINAIRE - CEILING MOUNTED
- DUAL FACE EXIT LUMINAIRE - CEILING MOUNTED
- SINGLE FACE EXIT LUMINAIRE - WALL MOUNTED
- DUAL FACE EXIT LUMINAIRE - WALL MOUNTED
- EGRESS ARROWS
- TRACK LIGHTING (NUMBER OF HEADS AS SHOWN ON DRAWING)
- EMERGENCY LUMINAIRE WITH INTEGRAL BATTERY PACK
- SECURITY LIGHTING HEAD
- NIGHT-LIGHT LUMINAIRE
- NIGHT-LIGHT LUMINAIRE, THROUGH THE WALL MOUNTING
- SHADING DENOTES EMERGENCY FIXTURE, UON

LIGHTING CONTROL SYMBOLS

$_ — SWITCH, TYPE AS NOTED BELOW
(BLANK) - SINGLE POLE
2 - DOUBLE POLE
3 - THREE-WAY SWITCH
4 - FOUR-WAY SWITCH
B - PROVIDE BOX AND BLANK COVER PLATE
D - ANALOG DIMMER SWITCH - (LUTRON 'DIVA' OR 'MAESTRO' SERIES, OAE PROVIDE DIMMER TYPE COMPATIBLE WITH LAMP SOURCE PER DIMMER MANUFACTURER COMPATIBILITY TESTING AND RATED FOR CONNECTED LOAD.)
F - FAN AND/OR FAN/LIGHT SWITCH
K - KEY OPERATED SWITCH
L - SINGLE POLE ILLUMINATED SWITCH - ILLUMINATED WHEN OFF
LV - LOW VOLTAGE SWITCH
P - SWITCH WITH PILOT LIGHT - ILLUMINATED WHEN ON
T_ TIMER SWITCH (NUMBER REFERS TO TIMEOUT PER SPECS)
U_ UNDERCABINET

$OS_ \ $VS_ — ANALOG OCCUPANCY (OS) OR VACANCY SENSOR (VS) SWITCH -
_ (BLANK)- SINGLE POLE
2 - (DUAL RELAY)
3 - (THREE-WAY)
V - (0-10V DIM)
D - (120V DIM, 150W)

- LC — LIGHTING CONTACTOR
- LCP — LIGHTING CONTROL PANEL
- PC — PHOTOELECTRIC CELL
- OS_ — ANALOG OCCUPANCY OR VACANCY SENSOR:
  C - CEILING MOUNT.
  K - CORNER MOUNT WITH MOUNTING ARMATURE.
  G - GARAGE CEILING, AS NOTED ON PLANS
- $D_ — DIGITAL LIGHTING CONTROL WALL STATION:
  1 - ZONE DIMMER (ENGRAVE "ON/▲" AND "OFF/▼", UON)
  2 - (2) BUTTON SCENE (ENGRAVE "▲" AND "▼", UON)
  3 - WALL OCC. AND DIM SWITCH (ENGRAVE "▲" AND "▼", UON)
  4 - (4) BUTTON SCENE WITH RAISE/LOWER (CUSTOM ENGRAVING)
  5 - (4) BUTTON ZONE SWITCH, (2) ON/(2) OFF (CUSTOM ENGRAVING)
  6 - WALL OCC. SWITCH (ENGRAVE "ON" AND "OFF")
  8 - (8) BUTTON ZONE SWITCH, (4) ON/(4) OFF (CUSTOM ENGRAVING)
  OR - OVERRIDE SWITCH FOR PUBLIC AREA LIGHTING CONTROL SYSTEM
  P - PARTITION SWITCH
- DO_ — DAYLIGHT SENSOR:
  CL - CLOSED LOOP
  OL - OPEN AND CLOSED LOOP SENSOR FOR SKYLIGHTS
- OS D_ \ VS D_ — DIGITAL LIGHTING CONTROL SYSTEM OCCUPANCY (OS) OR VACANCY (VS) SENSOR, WATTSTOPPER DLM OR SENSOR OR SENSOR SWITCH nLIGHT:
  C - CEILING-MOUNT DUAL-TECH #LMDC-100 OR nCM PDT-9
  H - HALLWAY PIR
  K - WALL/CORNER-MOUNT DUAL-TECH (WITH MOUNTING BRACKET)
  U - CEILING-MOUNT ULTRASONIC TECHNOLOGY (DLM ONLY)
- $W_ — WIRELESS DIGITAL LIGHTING WALL STATION
  LUTRON 'VIVE' MODEL, OAE:
  1 - ZONE DIMMER, 2-BUTTON RAISE/LOWER
  2 - ON/OFF SWITCH
  3 - ZONE DIMMER, 3-BUTTON RAISE/LOWER
  4 - SCENE SWITCH, 4-BUTTON WITH CUSTOM ENGRAVING #PJ2-4B-GXX-EL2, #PICO-WBX-ADAPT
  D - WIRELESS-CONTROLLED MLV WALL BOX DIMMER
  E - WIRELESS-CONTROLLED ELV WALL BOX DIMMER
- OS W_ \ VS W_ — WIRELESS OCCUPANCY (OS) OR VACANCY (VS) SENSOR
  LUTRON 'VIVE' MODEL, OAE:
  C - CEILING PIR SENSOR 360°
  W - WALL-MOUNT PIR SENSOR 180°
  K - CORNER-MOUNT PIR SENSOR 90°
  H - HALLWAY PIR SENSOR 150°
  D - CEILING-MOUNT DAYLIGHT SENSOR
  V - CEILING FLUSH-MOUNT HUB
- VH — LUTRON VIVE HUB, FLUSH MOUNT, UON.
  PROVIDE (1) CAT6 TO EACH LOCATION

NOTE: FOR ANALOG, DIGITAL, OR WIRELESS LIGHTING CONTROL, PROVIDE ALL REQUIRED 0-10V OR LINE VOLTAGE DIMMING POWER PACKS/ROOM CONTROLLERS, WIRING, MOUNTING AND FEED ACCESSORIES FOR A COMPLETE AND FUNCTIONING CONTROL SYSTEM.

POWER SYMBOLS

- CIRCUIT BREAKER
- FUSE
- SWITCH
- DRAW-OUT CIRCUIT BREAKER
- G — CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
- G — FUSED SWITCH WITH GROUND FAULT PROTECTION
- M — METER
- A — AMMETER
- V — VOLTMETER
- CURRENT TRANSFORMER (CT)
- POTENTIAL TRANSFORMER (PT)
- G — ENGINE GENERATOR SET
- AUTOMATIC TRANSFER SWITCH
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- COMBINATION MOTOR STARTER / DISCONNECT SWITCH
- T — DRY TYPE TRANSFORMER
- CT — CURRENT TRANSFORMER (CT)
- UTILITY POLE
- GROUNDING ELECTRODE
- GROUND BUSS
- GROUND ROD
- MH — MAN HOLE
- HH — HAND HOLE
- 0.00 — FEEDER SIZE TAG, SEE FEEDER SCHEDULE
- PANEL ? — LOAD CENTER ? — PANELBOARD
- SURFACE MOUNTED PANELBOARD OR LOAD CENTER
- FLUSH MOUNTED PANELBOARD OR LOAD CENTER
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE (T = TVSS)
- GFCI PROTECTED DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- GFCI PROTECTED DOUBLE DUPLEX RECEPTACLE
- SPLIT WIRED AND/OR SWITCHED RECEPTACLE
- CEILING MOUNTED RECEPTACLE (CR = CORD REEL DEVICE)
- IN-FLOOR DUPLEX RECEPTACLE
- IN-FLOOR DOUBLE DUPLEX RECEPTACLE
- IN-FLOOR COMBINATION RECEPTACLE/COMMUNICATIONS DEVICE
- SPECIAL PURPOSE RECEPTACLE
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- $TO — TOGGLE SWITCH WITH INTEGRAL THERMAL OVERLOADS
- PUSH BUTTON, TYPE AS NOTED
- GA — GENERATOR ANNUNCIATOR
- PLUGMOLD (LENGTH AS SHOWN ON DRAWING)
- SURFACE RACEWAY
- CABLE TRAY (LENGTH AS SHOWN ON DRAWING)
- CONDUIT END BUSHING
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT BREAK SYMBOL

ELECTRICAL PHASING NOTES

A. THE DEMOLITION OF THE ELECTRICAL SYSTEMS MUST BE PHASED TO CORRESPOND TO THE PHASED NATURE OF THE CONSTRUCTION OF THIS PROJECT. SEE THE ARCHITECTURAL PHASING PLANS FOR MORE DETAILS.

B. IF ANY SYSTEM OR PORTION OF A SYSTEM IS REMOVED WHILE THAT SYSTEM IS STILL REQUIRED TO BE OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SYSTEM TO A FULLY OPERATIONAL STATE. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORK NECESSARY TO KEEP REQUIRED SYSTEMS OPERATIONAL UNTIL THEY ARE NO LONGER NEEDED. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO: RELOCATION OF SYSTEM EQUIPMENT, REROUTING OF CONDUCTORS AND CONDUIT AND RELOCATING DEVICES AND EQUIPMENT.

C. EXISTING SYSTEMS THAT WILL REMAIN OPERATIONAL THROUGH MOST OR ALL OF THE CONSTRUCTION PERIOD INCLUDE, BUT ARE NOT LIMITED TO: NURSE CALL SYSTEMS, RESIDENT WANDER SYSTEMS, FIRE ALARM SYSTEM, TELEPHONE SYSTEMS, CLOSED CIRCUIT TV SYSTEMS, ACCESS CONTROL SYSTEMS, CABLE TV SYSTEMS, COMPUTER NETWORK SYSTEMS, MECHANICAL SYSTEMS (COORDINATE WITH DIVISION 23), AND PORTIONS OF THE POWER AND LIGHTING SYSTEMS. ANY SHUTDOWN (EITHER LONG-TERM OR SHORT-TERM) OF ANY OF THESE SYSTEMS MUST BE COORDINATED WITH AND APPROVED BY THE OWNER.

D. ELEMENTS OF ELECTRICAL SYSTEMS PHYSICALLY LOCATED OUTSIDE OF THE CURRENT PHASE AS DEFINED BY THE ARCHITECTURAL PHASING PLANS MAY NEED TO BE COMPLETED IN ADVANCE OF THE DICTATED PHASING IN ORDER TO COMPLETE ITEMS WITHIN THE CURRENT PHASE. COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE TO ENSURE CONTINUITY OF SYSTEM OPERATION AS REQUIRED BY THE OWNER.

E. FIRE ALARM COMPONENTS SHALL BE INSTALLED AND OPERATIONAL IN EACH PHASED AREA AS THE AREA IS READY TO BE OCCUPIED, INCLUDING IN AREAS WHERE PERSONNEL ARE TEMPORARILY LOCATED DURING CONSTRUCTION.

F. IF THE NEED FOR TEMPORARY SERVICE(S) DICTATES WORK MUST BE DONE AHEAD OF SCHEDULE OR DELAYED FOR A PARTICULAR AREA, WORK AHEAD OF SCHEDULE OR DELAYED WORK MUST BE APPROVED BY THE ARCHITECT AND OWNER. WORK SHALL TAKE PLACE IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE DAY-TO-DAY OPERATION OF THE FACILITY AS DETERMINED BY THE OWNER.

ELECTRICAL GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO BID TO VERIFY DIMENSIONS AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO EXTRAS WILL BE GIVEN FOR ADDITIONAL WORK WHICH IS REQUIRED RESULTING FROM CONTRACTOR'S FAILURE TO BECOME FAMILIARIZED WITH THE SITE AND FACILITIES.

B. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO BEGINNING ROUGH-IN. PANELBOARD AND CIRCUIT INFORMATION FOR MECHANICAL EQUIPMENT ARE SHOWN ADJACENT TO MECHANICAL EQUIPMENT TAGS ON DRAWINGS.

C. COORDINATE EXACT LOCATIONS OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, REFLECTED CEILING PLANS (WHERE SHOWN), CASEWORK SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS PRIOR TO BEGINNING ROUGH-IN. UON, RECEPTACLES THAT FEED APPLIANCES SUCH AS REFRIGERATORS, DISHWASHERS, OVENS, ETC. SHALL BE LOCATED BEHIND THE APPLIANCE. UNDER-CABINET MICROWAVE AND RANGE HOODS SHALL HAVE THE RECEPTACLE MOUNTED IN THE CABINET ABOVE THE APPLIANCES.

D. THE CONTRACTOR SHALL VERIFY ALL ROUGH-IN REQUIREMENTS FOR ELECTRICALLY OPERATED EQUIPMENT WITH THE EQUIPMENT SUPPLIERS.

E. PROVIDE A SET OF CONSTRUCTION DOCUMENTS TO THE OWNER AND SCHEDULE A MEETING WITH THE OWNER FOR VERIFICATION OF ALL ENGRAVED NAMEPLATES (WHETHER EQUIPMENT OR LIGHTING), ROOM NAMES/NUMBERS FOR PANEL DIRECTORIES AND FINAL LOCATION OF ELECTRICAL ITEMS.

F. COORDINATE ALL POWER OUTAGES WITH THE OWNER AT LEAST TWO WEEKS IN ADVANCE. WRITTEN CONFIRMATION IS REQUIRED. ACTIVITIES PLANNED BY THE OWNER SHALL TAKE PRECEDENCE OVER THE CONTRACTOR'S WORK. NO EXTRA TIME WILL BE ALLOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE AND SCHEDULE WORK ACCORDINGLY.

G. ALL EXISTING BUILDING FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING FACILITIES OR EQUIPMENT TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

H. COORDINATE ELECTRICAL DEVICE LOCATIONS WITH CHAIR RAILS, CORNER GUARDS, DOOR TRIMS, ETC. NOTIFY ARCHITECT OF CONFLICTING LOCATIONS.

I. GFI 'FEED-THROUGH' DEVICES SHALL NOT BE USED TO PROTECT DOWN-STREAM DEVICES ON THE SAME CIRCUIT. PROVIDE SEPARATE GROUND FAULT RECEPTACLES AT EACH LOCATION INDICATED, UON.

J. RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GFCI-TYPE RECEPTACLES.

K. WHERE RECEPTACLES ARE SHOWN BELOW OR IN CLOSE PROXIMITY TO LIGHT SWITCHES, THE CENTERLINES OF THE DEVICES SHALL BE ALIGNED VERTICALLY.

L. COORDINATE FINAL LIGHT FIXTURE LOCATIONS WITHIN MECHANICAL AND ELECTRICAL SPACES WITH EQUIPMENT, DUCTWORK, PIPING, CONDUITS, ETC. FOR BEST POSSIBLE LIGHTING UNIFORMITY.

M. THE LOCATION OF ALL CEILING-MOUNTED OCCUPANCY SENSORS SHALL BE CONSIDERED AS SCHEMATIC ONLY. FINAL OCCUPANCY SENSOR LAYOUT SHALL BE PROVIDED BY THE SUCCESSFUL VENDOR. ALL OCCUPANCY SENSORS SHALL BE PROPERLY SET AND TESTED FOR OPTIMAL OPERATION. A MANUFACTURER'S REPRESENTATIVE SHALL RE-VISIT THE PROJECT SITE TWO WEEKS AFTER BUILDING/PHASED AREA OCCUPANCY TO PERFORM ANY ADDITIONAL CALIBRATION AND AIMING ADJUSTMENT AS REQUIRED TO SATISFY BUILDING OCCUPANTS.

N. UNLESS OTHERWISE NOTED, ALL DUAL TECHNOLOGY OCCUPANCY SENSORS SHALL REQUIRE ONLY ONE OF THE TWO TECHNOLOGIES (ULTRASONIC OR PIR) TO SENSE MOTION FOR THE LIGHTING TO TURN 'ON'. CONTRACTOR SHALL VERIFY WITH THE OWNER THE TIME OUT SETTINGS (MAXIMUM OF 30 MINUTES) FOR EACH TYPE OF ROOM. TIME OUT SHALL BE DEFINED AS THE LENGTH OF THE TIME THIS LIGHTING REMAINS 'ON' AFTER THE LAST MOTION IS SENSED.

O. SWITCHES THAT ARE SHOWN AT ROOM ENTRANCES AND ARE NOT SPECIFICALLY IDENTIFIED BY KEY NOTES OR SWITCH-LEG INDICATORS ARE INTENDED TO OPERATE ALL OF THE GENERAL LIGHTING IN THAT ROOM ONLY. COORDINATE AND CONFIRM ALL DOOR SWINGS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY LIGHT SWITCHES. SWITCHES SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR WHENEVER POSSIBLE. REFER TO THE DEVICE MOUNTING LOCATION DETAIL.

ELECTRICAL DEMOLITION NOTES

A. INFORMATION REGARDING THE EXISTING CONDITIONS WAS GATHERED FROM AVAILABLE EXISTING DRAWINGS, SURVEY AND CORRESPONDENCE WITH STAFF. THERE ARE NO GUARANTEES AS TO THE ACCURACY OF THIS INFORMATION AND IT IS OFFERED FOR INFORMATION ONLY.

B. THE ITEMS INDICATED ON THE DEMOLITION DRAWINGS HIGHLIGHT SOME OF THE CRITICAL DEMOLITION ISSUES, BUT THE DRAWINGS ARE NOT INTENDED TO BE AN ALL-INCLUSIVE DEMOLITION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK. THEREFORE, AS STATED ELSEWHERE ON THIS DRAWING, IT IS IMPERATIVE THAT THE CONTRACTOR THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID FOR THE WORK. DUE TO THE NATURE OF THIS PROJECT AND THE STATE OF THE EXISTING BUILDING, THESE DRAWINGS CANNOT COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED. FAILURE TO VISIT THE SITE OR THOROUGHLY REVIEW ALL PROJECT DRAWINGS AND SPECIFICATIONS WILL NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF THE DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK. COORDINATE WORK WITH ALL OTHER TRADES.

C. UNLESS OTHERWISE INDICATED, ALL ITEMS SHOWN TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT, WIRE, BOXES, ETC. BACK TO POINT OF ORIGIN OR NEAREST EXISTING ITEM TO REMAIN. WHERE AN ELECTRICAL DEVICE IS REMOVED FROM AN EXISTING WALL TO REMAIN, THE BACK BOX SHALL BE REMOVED AND THE CONDUIT AND WIRE SHALL BE CUT BACK TO THE POINT WHERE IT IS NOT VISIBLE SO THAT THE WALL CAN BE PATCHED. WHERE APPROPRIATE, PROTECT CIRCUITRY FOR CONNECTION(S) TO NEW DEVICES AND/OR EQUIPMENT INDICATED ON NEW WORK PLANS.

D. COMPLETELY REMOVE ALL UNUSED WIRE, CONDUIT, BOXES, ETC. THAT WILL BE EXPOSED OR LEFT ABOVE ACCESSIBLE CEILINGS, INCLUDING ANY ITEMS THAT ARE CURRENTLY UNUSED OR ABANDONED IN PLACE.

E. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY OR ALL OF THE DEMOLISHED ELECTRICAL MATERIALS, INCLUDING WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ANY MATERIALS NOT SALVAGED BY THE OWNER.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL CONNECTIONS TO EXISTING AND NEW SYSTEMS AS NECESSARY TO FACILITATE PROPER CONTINUAL OPERATION OF ALL SYSTEMS AND EQUIPMENT, EXISTING OR NEW, EXCEPT WHERE IN CURRENT AREA OF CONSTRUCTION.

G. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF ELECTRICAL SYSTEM COMPONENTS DAMAGES EXISTING SURFACES TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT UNDISTURBED SURFACES. RESTORATION MUST BE PERFORMED BY WORKERS SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SEAL HOLES. WEATHERTIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.

H. DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF DEMOLITION. PROPERLY SUPPORT ALL EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SUPPORTS FOR AFFECTED ITEMS.

I. VERIFY EXTENT OF CONDUITS, WIRING, EQUIPMENT COMPONENTS AND FIXTURES TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

J. WHERE EXISTING DEVICES ARE TO BE REMOVED FROM WALLS WHICH ARE TO REMAIN, WALLS SHALL BE PATCHED AND PAINTED TO MATCH FINISH AFTER CONDUCTORS HAVE BEEN REMOVED. PROVIDING A BLANK COVER PLATE OVER AN EXISTING BOX IS NOT ACCEPTABLE IN FINISHED AREAS.

K. REINSTALL ALL EXISTING DEVICES DESIGNATED AS "EXISTING TO REMAIN" ON NEWLY REFINISHED CEILING/WALL/FLOOR. USE MUD RINGS, BOX EXTENSIONS AS REQUIRED TO HAVE THE DEVICE AND COVER PLATE REST FLUSH UP AGAINST THE NEW WALL SURFACE.

L. ELECTRICAL SYSTEMS PASSING THROUGH AREA TO BE DEMOLISHED TO AREAS OUTSIDE THE SCOPE OF THIS PROJECT SHALL BE MAINTAINED. CONTRACTOR SHALL RELOCATE THE WIRING AND CONDUIT FOR ANY SUCH SYSTEMS AS NECESSARY FOR THE COMPLETION OF THIS PROJECT AT NO ADDITIONAL COST. IN ADDITION, CONTRACTOR SHALL MAINTAIN CONTINUITY DURING CONSTRUCTION FOR ALL CIRCUITS AND SYSTEMS NOT SCHEDULED FOR DEMOLITION.

M. RECONNECT ALL DOWNSTREAM DEVICES THAT ARE AFFECTED BY DEMOLITION AS REQUIRED TO KEEP THEM FULLY AND PERMANENTLY OPERATIONAL.

N. THE CONTRACTOR SHALL BE AWARE THAT THE EXISTING ADJACENT SITE WILL BE IN USE DURING THE LENGTH OF THE CONTRACT 24 HOURS PER DAY, 7 DAYS A WEEK. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO THAT THERE WILL BE MINIMUM INTERFERENCE WITH THE CONTINUED OPERATIONS OF THE EXISTING SITE. ANY INTERFERENCE OR INCONVENIENCE WITH THE CONTINUED OPERATIONS OF THE SITE SHALL BE REVIEWED WITH THE OWNER PRIOR TO APPROVAL.

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Superior South Pool
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Superior, CO 80027

COLORADO LICENSED — MARK D. LAYFIELD — 03.27.26 — 37135 — PROFESSIONAL ENGINEER

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ELECTRICAL LEGEND AND GENERAL NOTES

E001

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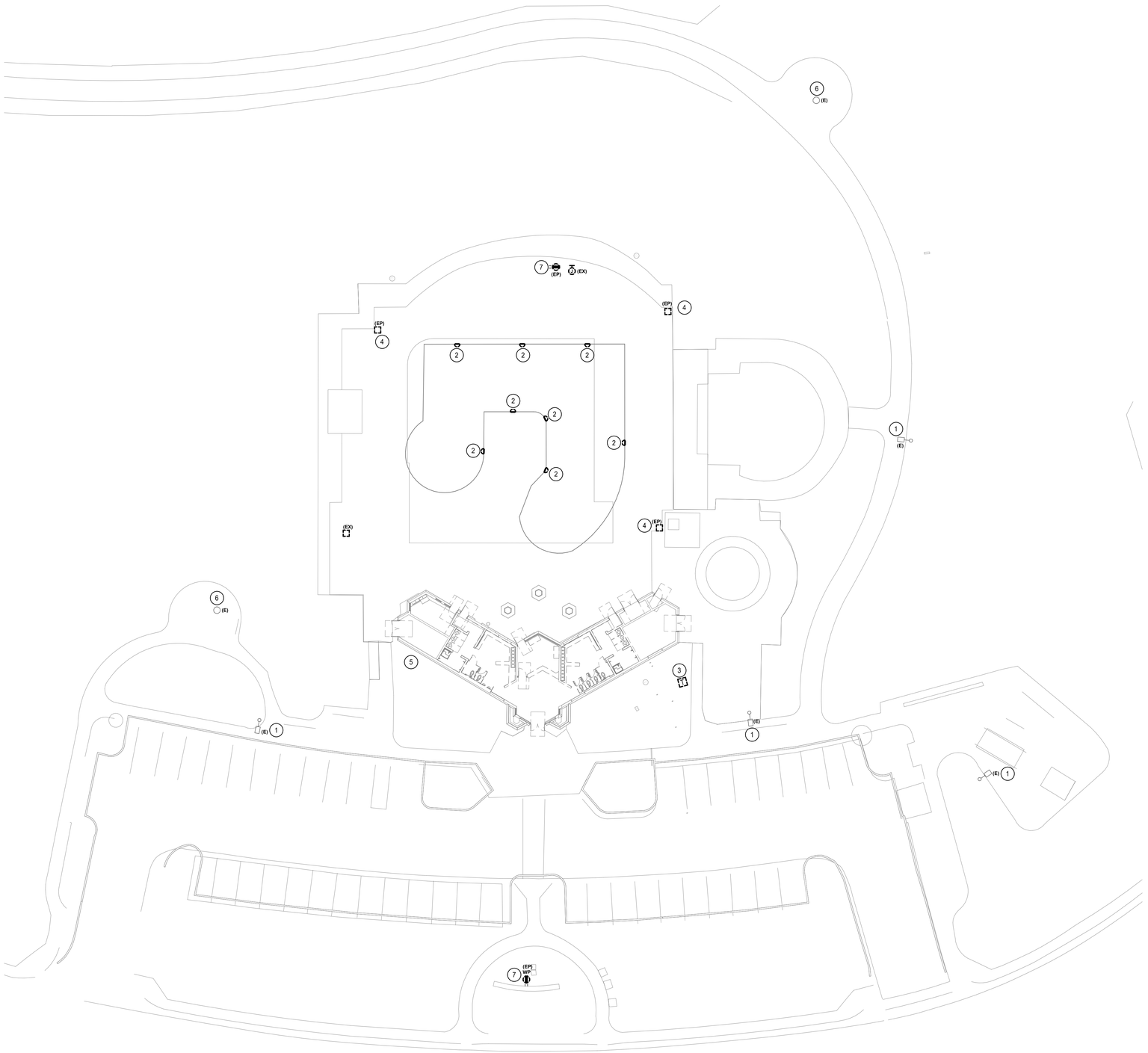

1 E101 **SITE ELECTRICAL DEMOLITION PLAN**

SCALE: 1" = 20'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. THIS PLAN DOES NOT INDICATE ALL OF THE UNDERGROUND UTILITY LINES. NO LOCATION BY EXCAVATION WAS PERFORMED FOR THIS PROJECT. UTILITIES SHOWN ARE BASED ON DRAWINGS RECEIVED FROM THE SITE ENGINEER. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITY LINES (NEW AND EXISTING) OF ALL TRADES PRIOR TO ANY SITE WORK.

E. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING UTILITY TRANSFORMER (IF APPLICABLE) WITH XCEL ENERGY.

F. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. EXISTING POLE MOUNTED LIGHT FIXTURE, POLE BASE AND EXISTING CIRCUITRY SHALL REMAIN. CIRCUITRY SHALL BE EXTENDED TO NEW PANEL AS INDICATED ON E102.
2. REMOVE EXISTING UNDERWATER POOL LIGHTS (QTY = 8) AND ASSOCIATED WIRING. PROTECT RACEWAYS WHERE PRACTICABLE FOR NEW UNDERWATER LIGHTS AND NEW CIRCUITRY.
3. REMOVE EXISTING UTILITY TRANSFORMER, CT CABINET AND METER. COORDINATE ALL WORK WITH XCEL ENERGY.
4. REMOVE BOLLARD. PROTECT CIRCUITRY BACK TO BUILDING FOR NEW BOLLARD IN SAME LOCATION.
5. EXISTING EQUIPMENT. OWNER SHALL WALK SITE BEFORE DEMOLITION TO VERIFY IF EQUIPMENT SHOULD BE SAVED OR DEMOLISHED.
6. EXISTING DOWNLIGHT IN SHADE STRUCTURE, EXISTING CIRCUITRY SHALL REMAIN. CIRCUITRY SHALL BE EXTENDED TO NEW PANEL SHOWN ON E102.
7. EXISTING RECEPTACLE, PROTECT CIRCUITRY TO BUILDING FOR NEW RECEPTACLE IN SAME LOCATION. CIRCUITRY SHALL BE EXTENDED TO NEW PANEL SHOWN ON E102.

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
03.27.26
37135
PROFESSIONAL ENGINEER

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SITE ELECTRICAL DEMOLITION PLAN

E101

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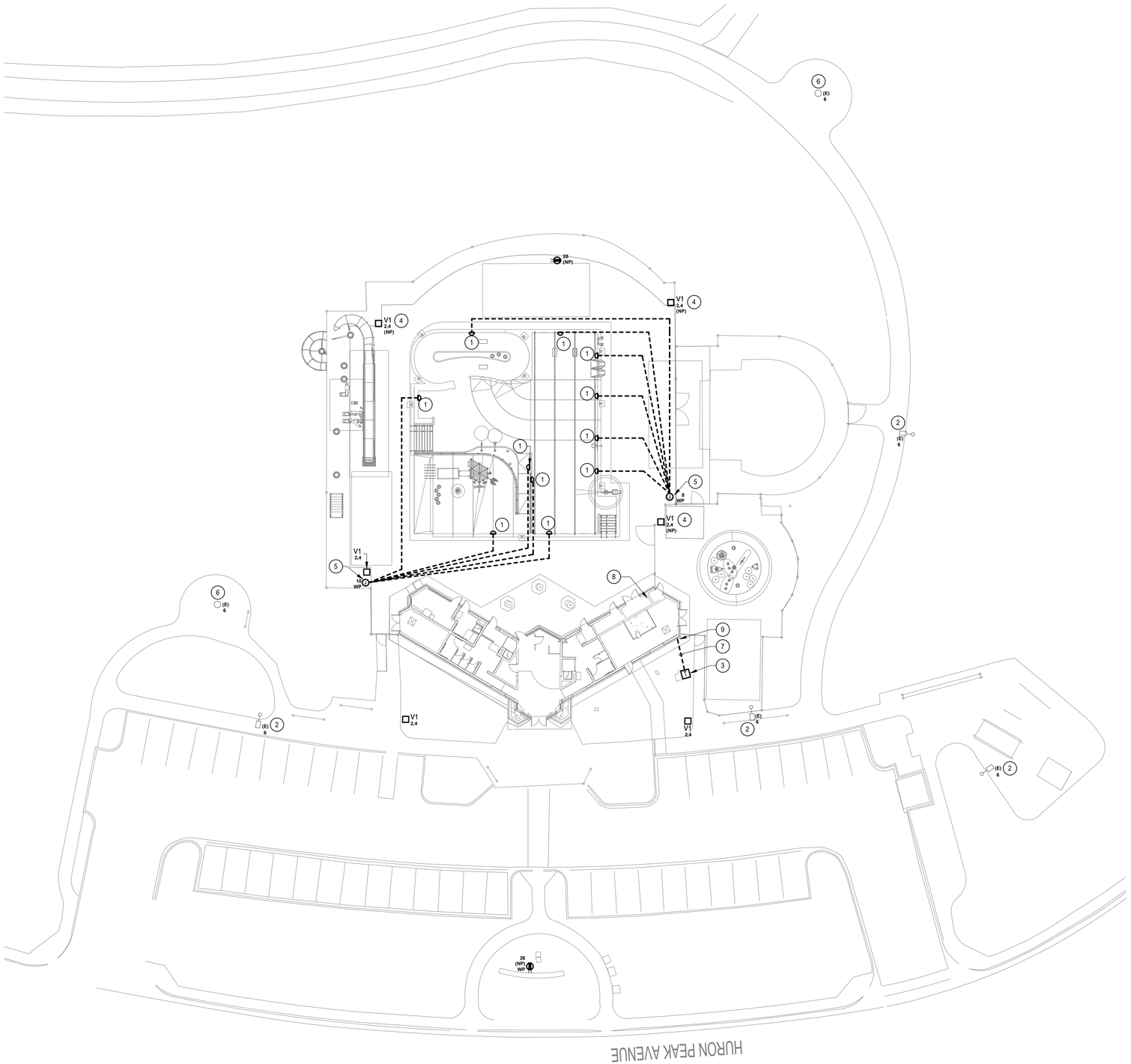
NOTE: AS APPROVED BY TOWN COUNCIL, NO NEW ELECTRIC VEHICLE CARGING STATIONS WILL BE REQUIRED FOR THIS PROJECT.



1 E102 **SITE ELECTRICAL PLAN**

SCALE: 1" = 20'-0"

GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. THIS PLAN DOES NOT INDICATE ALL OF THE UNDERGROUND UTILITY LINES. NO LOCATION BY EXCAVATION WAS PERFORMED FOR THIS PROJECT. UTILITIES SHOWN ARE BASED ON DRAWINGS RECEIVED FROM THE SITE ENGINEER. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL UNDERGROUND UTILITY LINES (NEW AND EXISTING) OF ALL TRADES PRIOR TO ANY SITE WORK.

E. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, TRENCHING AND BACKFILLING AS REQUIRED BY XCEL ENERGY. REFER TO CIVIL DRAWINGS FOR DRY UTILITY EASEMENT LOCATIONS.

F. BURIAL DEPTH FOR XCEL ENERGY AND POWER SERVICE CONDUITS SHALL BE 3'-6" BELOW GRADE, MINIMUM.

G. MINIMUM CONDUIT SIZE FOR BRANCH CIRCUITS SHALL BE 1". MINIMUM CONDUCTOR SIZE SHALL BE #10AWG. MINIMUM BURIAL DEPTH SHALL BE 24" BELOW FINISHED GRADE, UON. REFER TO SPECIFICATIONS FOR VOLTAGE DROP LIMITATIONS ON BRANCH CIRCUITS AND UP-SIZE CONDUCTORS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

H. UNLESS OTHERWISE NOTED, PROVIDE SEPARATE QUAZITE OAE HAND HOLES FOR LIGHTING AND POWER. LIDS SHALL INDICATE THE TYPE OF SERVICE IN THE HAND HOLE.

I. REFER TO POLE BASE DETAILS ON E800 SERIES DRAWINGS FOR NEW CONCRETE BASE REQUIREMENTS.

J. FIELD COORDINATE LIGHT FIXTURE LOCATIONS WITH LANDSCAPING, SIDEWALKS AND SITE FEATURES, INCLUDING HARDSCAPE, STAIRS, RETAINING WALLS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

K. SITE RECEPTACLES NOT MOUNTED TO BUILDING OR STRUCTURES SHALL BE INSTALLED IN ARLINGTON INDUSTRIES 19.5" GARD-N-POST SUPPORT. CONFIRM COLOR AND LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE METAL IN-USE COVER ON RECEPTACLE.

L. PER NEC ARTICLE #680.26, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMMON BONDING GRID MADE UP OF BUT NOT LIMITED TO:

1. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING METAL OF THE POOL SHELL, COPING STONES, AND NEW POOL DECK.
2. ALL FORMING SHELLS AND MOUNTING BRACKETS OF A NO-NICHE FIXTURE.
3. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
4. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL WATER CIRCULATING SYSTEM, INCLUDING PUMP MOTORS.
5. METAL PARTS OF EQUIPMENT ASSOCIATED WITH POOL COVERS, INCLUDING ELECTRIC MOTORS.
6. METAL-SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS THAT ARE WITHIN 5FT. HORIZONTALLY OF THE INSIDE WALLS OF THE POOL, AND WITHIN 12FT. ABOVE THE MAXIMUM WATER LEVEL OF THE POOL, OR FROM ANY DIVING STRUCTURES, AND THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER.

M. ELECTRICAL CONTRACTOR SHALL HAVE A THIRD PARTY PERFORM A SEPARATE BONDING TEST PRIOR TO COVERING THE BONDING JUMPERS AND ANOTHER BONDING TEST AFTER THE BONDING JUMPERS HAVE BEEN COVERED.

N. CONFIRM ALL POOL EQUIPMENT EPO LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN.

O. CONFIRM THE LOCATIONS OF ALL AQUATICS FEATURES AND EQUIPMENT WITH THE POOL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS.

P. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

Q. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1M'.

R. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

S. SITE LIGHTING SHALL BE CONTROLLED VIA ASTRONOMICAL TIM-CLOCK. REFER TO E800 SERIES FOR ADDITIONAL INFORMATION.

KEY NOTES

1. WET NICHE FOR UNDERWATER LIGHT FIXTURE. THE LIGHT NICHE SHALL BE FURNISHED AND INSTALLED BY THE POOL CONTRACTOR. THE LIGHT NICHE SHALL BE GROUNDED BY THE ELECTRICAL CONTRACTOR. UNDERWATER LIGHT FIXTURE WITH CORD ATTACHED SHALL BE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 3/4" WATERTIGHT CORROSION RESISTANT CONDUIT FROM THE LIGHT NICHE TO THE JUNCTION BOX AS SHOWN ON PLANS. INSTALLATION SHALL BE PER THE NATIONAL ELECTRICAL CODE ARTICLE 680. REFER TO AQUATICS DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO E800 SERIES FOR LIGHTING CONTROL INFORMATION.
2. EXISTING POLE MOUNTED LIGHT FIXTURE, BASE AND EXISTING CIRCUITRY TO REMAIN. EXTEND CIRCUITRY BACK TO NEW PANEL LOCATION. REFER TO E702 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. UTILITY TRANSFORMER. COORDINATE ALL WORK WITH XCEL ENERGY.
4. REUSE THE EXISTING CONCRETE BOLLARD BASE. IF THE EXISTING BOLT PATTERN DOESN'T MATCH THE NEW ONE, EC SHALL CUT EXISTING BOLTS FLUSH WITH THE CONCRETE AND PROVIDE NEW BOLTS DRILLED AND EPOXIED INTO THE EXISTING BASE. BOLTS SHALL BE HILTI HAS-R IN LENGTH AND DIAMETER AS RECOMMENDED BY THE BOLLARD MANUFACTURER. UTILIZE HILTI "HIT" INJECTABLE ADHESIVE ANCHORING SYSTEM. EC MAY ALSO OPT TO DEMOLISH AND PROVIDE A NEW CONCRETE BASE IN LIEU OF REUSING THE EXISTING ONE.
5. LOCATION OF FLUSH MOUNTED, CORROSION RESISTANT JUNCTION BOX LISTED FOR POOL USE FOR CONNECTION TO UNDERWATER LIGHT FIXTURES. JUNCTION BOXES SHALL BE LOCATED 18" ABOVE THE ASSOCIATED DECK LEVEL. INSTALLATION SHALL BE PER THE NATIONAL ELECTRICAL CODE ARTICLE 680.
6. EXISTING CEILING LIGHT AT SHADE STRUCTURE AND EXISTING CIRCUITRY SHALL REMAIN. REFER TO E702 PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
7. COORDINATE ROUTING OF SERVICE TO BUILDING WITH EXISTING LANDSCAPE AND ALL NEW AND EXISTING TO REMAIN UTILITIES.
8. LOCATION OF EXISTING CT CABINET IN EXISTING ELECTRICAL ROOM.
9. LOCATION OF EXISTING ELECTRICAL DISCONNECTS AND METERS. REFER TO E201 FOR ADDITIONAL INFORMATION.

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED
MARK D. LAFFERTY
03.27.26
37135
PROFESSIONAL ENGINEER

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SITE ELECTRICAL PLAN

E102

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KEY NOTES (#)

1. THIS IS AN AREA OF SUBSTANTIAL DEMOLITION. UNLESS REQUIRED TO FACILITATE OTHER DEMOLITION WORK SHOWN IN THESE DOCUMENTS OR SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL DEMOLITION SHALL INCLUDE THE FOLLOWING:
   - REMOVAL OF ALL LIGHT FIXTURES (BOTH NORMAL AND EMERGENCY) AND ASSOCIATED CONTROLS AND CIRCUITRY.
   - REMOVAL OF ALL WIRING DEVICES, FACEPLATES, OUTLET BOXES AND ASSOCIATED CIRCUITRY.
   - ALL FIRE ALARM DEVICES AND WIRING.
   - ELECTRICAL PANELBOARDS, SERVICE DISCONNECT AND INCOMING ELECTRICAL SERVICE. PROTECT EXISTING CIRCUITS THAT REMAIN, INCLUDING SITE LIGHTING AND/OR POWER CIRCUITS.
   - ELECTRICAL CONNECTIONS TO AQUATICS EQUIPMENT.
   - ELECTRICAL CONNECTIONS TO PLUMBING AND/OR MECHANICAL EQUIPMENT BEING DEMOLISHED. PROTECT CIRCUITS FOR MECHANICAL AND PLUMBING EQUIPMENT THAT REMAINS.

   REFER TO GENERAL NOTES ABOVE FOR INFORMATION ON BACK-BOXES AND/OR PARTIAL RACEWAYS THAT MAY REMAIN.
2. EXISTING EXTERIOR PV EQUIPMENT SHALL REMAIN. MAINTAIN CONDUIT TO ROOFTOP AND/OR INTERIOR EQUIPMENT.
3. EXISTING INTERIOR PV EQUIPMENT SHALL REMAIN.
4. AS INDICATED IN KEY NOTE 1 ABOVE, EXISTING PANELS AND DISCONNECTS SHALL BE DEMOLISHED. INTERCEPT ALL EXISTING CIRCUITS THAT REMAIN AFTER DEMOLITION EITHER ABOVE PANELS IN ATTIC SPACE OR BELOW PANELS IN CRAWL SPACE AND PROVIDE NEW PULL BOXES ACCORDINGLY FOR EXTENSION OF EXISTING CIRCUITS THAT REMAIN TO NEW PANEL LOCATIONS ACCORDINGLY. THIS INCLUDES, BUT IS NOT LIMITED TO, SITE POWER AND LIGHTING CIRCUITS, ETC.
5. EXISTING SECURITY SYSTEM KEYPAD. RELOCATE TO NEW LOCATION INDICATED ON E301. COORDINATE WITH TOWN'S SECURITY VENDOR.
6. EXISTING EXHAUST FAN CONTROLS. RELOCATE TO NEW LOCATION INDICATED ON E301.
7. PROVIDE CONCEALED CONDUIT THRU BUILDING ABOVE CEILING TO ELECTRICAL ROOM. REFER TO E301 FOR ADDITIONAL INFORMATION.

GENERAL NOTES (THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL ELECTRICAL ITEMS, DEVICES AND EQUIPMENT THAT ARE EXISTING TO REMAIN ARE NOT NECESSARILY SHOWN ON THIS DRAWING.

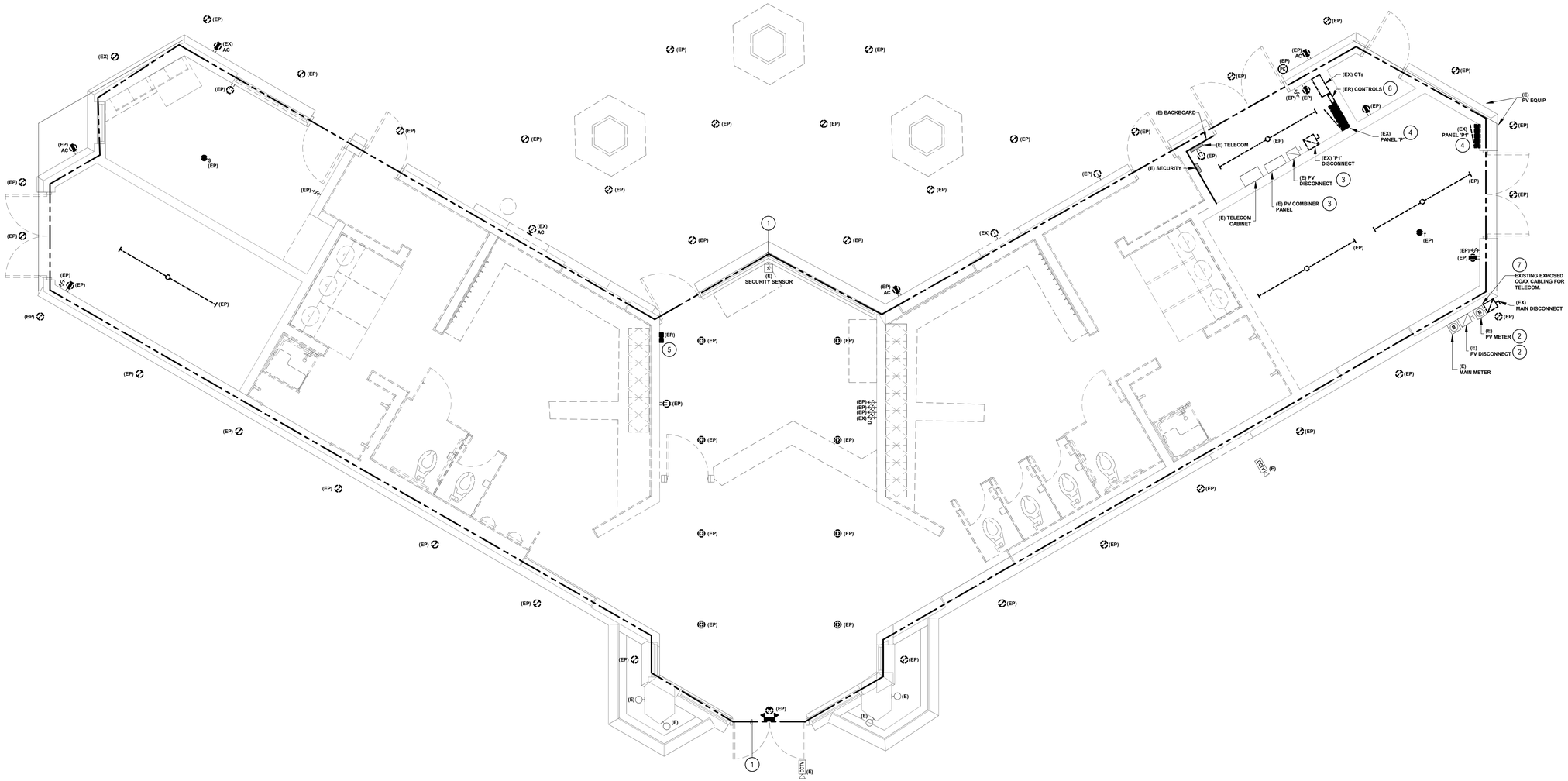
C. IN ANY AREAS WHERE DEMOLITION IS NOT NOTED, THE EXISTING ELECTRICAL EQUIPMENT IS TO REMAIN. THE CONTINUITY OF EXISTING EQUIPMENT AND CIRCUITRY TO REMAIN SHALL BE MAINTAINED, UNLESS NOTED OTHERWISE.

D. REFER TO NEW POWER AND LIGHTING PLANS. WHERE NEW DEVICE AND/OR EQUIPMENT LOCATIONS MATCH EXISTING DEVICE AND/OR EQUIPMENT LOCATIONS, BACK-BOXES AND EXISTING RACEWAYS MAY BE REUSED TO THE EXTENT THAT THEY ARE IN WORKING ORDER AND COMPLY WITH ALL NEW REQUIREMENTS AND SPECIFICATIONS. ALL DEVICES, FACEPLATES, CIRCUITRY AND TELECOM CABLING SHALL BE NEW.

E. ALL WIRELESS ACCESS POINTS FOR THE WI-FI SYSTEM SHALL BE EXISTING TO REMAIN. PROVIDE NEW CONDUIT TO EQUIPMENT FOR NEW TELECOM CABLING PROVIDED BY OWNER OR OWNER'S VENDOR. REMOVE EQUIPMENT AND PROTECT DURING CONSTRUCTION AND REINSTALL ACCORDINGLY.

F. COORDINATE ALL WORK REQUIRED FOR THE EXISTING PV SYSTEM WITH THE TOWN'S PV VENDOR, NAMASTE SOLAR, GRACE BJORLAND, 720.305.4497 (DIRECT), 303.447.0300 (MAIN), grace.bjorland@namastesolar.com.

G. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.



1 E201 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN**

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 03.27.26 37135 PROFESSIONAL ENGINEER

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FIRST FLOOR ELECTRICAL DEMOLITION PLAN

E201

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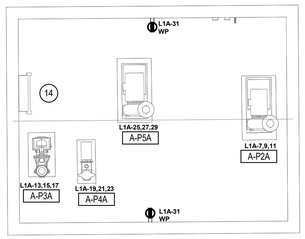


PUMP PIT - SLIDE TOWER ELECTRICAL PLAN

2 / E301

SCALE: 1/4" = 1'-0"

KEY NOTES (#)

10. LOCATE RECEPTACLE IN CASEWORK. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND CASEWORK INSTALLER.
11. PROVIDE 8"X8"X6" SECURITY JUNCTION BOX AND 1" CONDUIT BACK TO TELECOM AREA/SECURITY PANEL LOCATION.
12. PROVIDE WP JUNCTION BOXES FOR CARD READER AND ELECTRIC STRIKE OR ELECTRIC HINGE TRANSFER AT SECURED DOOR. PROVIDE 3/4" CONDUIT WITH PULL WIRE TO ADJACENT NEW SECURITY JUNCTION BOX. COORDINATE WITH DOOR HARDWARE INSTALLER AND TOWN'S SECURITY VENDOR.
13. PROVIDE OUTLET BOX (WP WHERE OUTDOORS) AND 1" CONDUIT BACK TO TELECOM AREA/SECURITY PANEL LOCATION FOR NEW CCTV CAMERA AT THIS LOCATION. COORDINATE EXACT LOCATION WITH TOWN'S SECURITY VENDOR.
14. ALL CONDUIT AND WIRING IN PUMP PIT SHALL BE WEATHER RESISTANT.
15. PROVIDE NEW EPO DEVICE. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN. EXTEND
16. RELOCATED EXHAUST FAN CONTROLS.
17. RECEPTACLE LOCATED 20" AFF FROM PIT LEVEL.
18. LOCATE WEATHER PROOF JUNCTION BOX ABOVE GRADE TO CONCEAL EXISTING EXPOSED COAX CABLE.

KEY NOTES (#)

1. PROTECT REFRIGERATOR RECEPTACLE FROM NEAREST ADJACENT ABOVE-COUNTER GFCI RECEPTACLE.
2. NEW RECEPTACLE MOUNTED IN COLUMN 6" BELOW SOFFIT FOR TIME CLOCK. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. NEW TELECOM ENTRANCE. COORDINATE WITH OWNER AND OWNER'S TELECOM SERVICE PROVIDER. PROVIDE 1-1/4" CONDUIT CONCEALED WITHIN BUILDING TO BUILDING EXTERIOR WHERE EXISTING EXPOSED CABLING IS INSTALLED.
4. NEW LOCATION OF EXISTING SECURITY SYSTEM PANEL. ALL NEW TELECOM RACEWAYS SHALL BE ROUTED TO THIS LOCATION.
5. PROVIDE NEW RACEWAY BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER'S VENDOR) TO CCTV CAMERA.
6. PROVIDE NEW JUNCTION BOX WITH 3/4" RACEWAY AND PULL CORD BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER'S VENDOR) TO WIRELESS ACCESS POINT.
7. PROVIDE NEW JUNCTION BOX WITH 3/4" RACEWAY AND PULL CORD BACK TO NEW TELECOM AREA FOR NEW TELECOM CABLING (BY OWNER) TO TELECOM OUTLET.
8. NEW JUNCTION/PULL BOXES IN CRAWL SPACE AND ATTIC SPACE (IF NECESSARY) FOR EXTENSION OF EXISTING CIRCUITS TO REMAIN TO NEW PANELBOARDS.
9. PROVIDE 120V CONNECTION TO HAND DRYER. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER'S INSTALLATION DRAWINGS.

GENERAL NOTES (THIS SHEET ONLY)

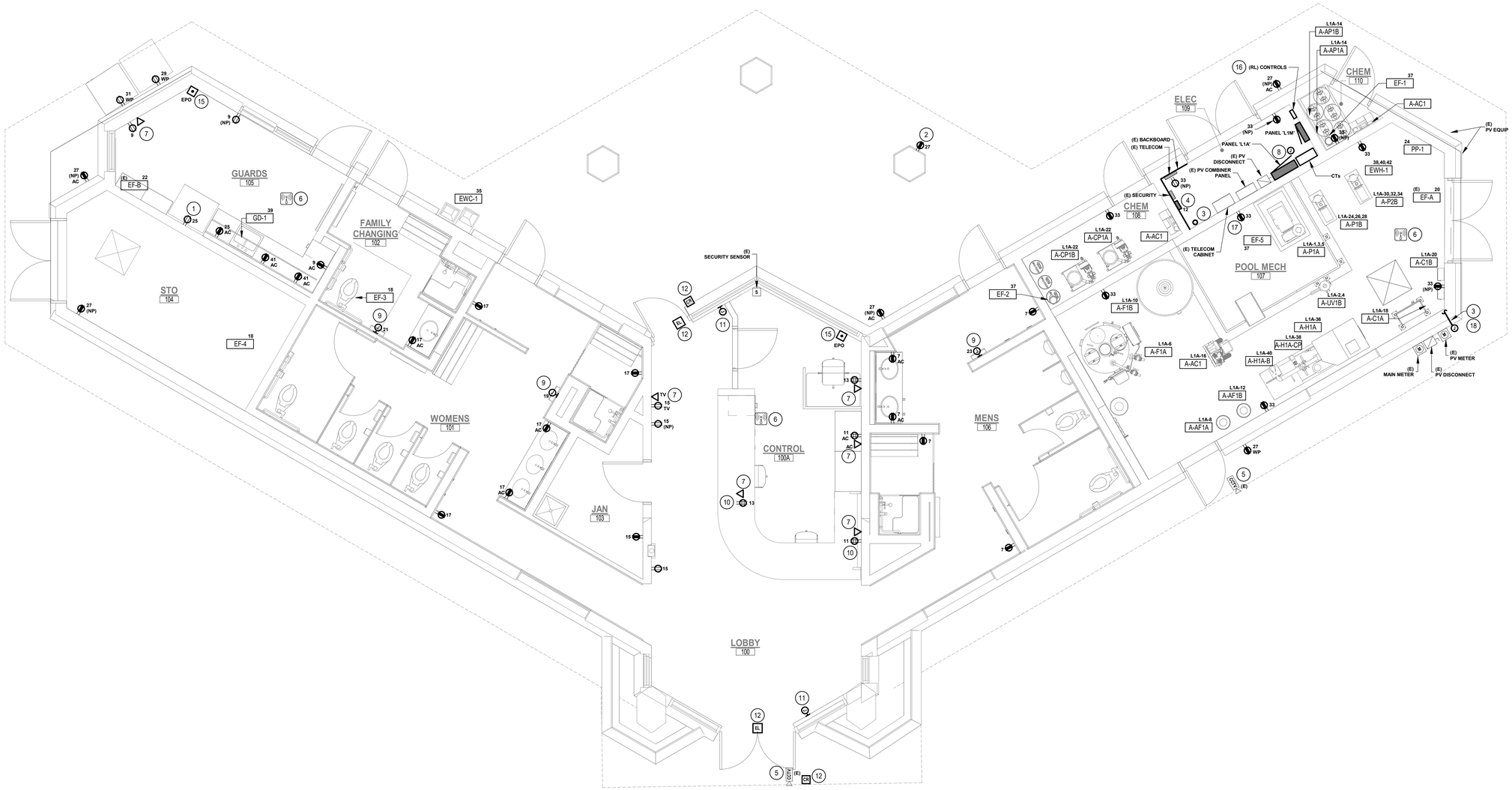
A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, FIXTURES OR EQUIPMENT REFER TO PANEL 'L1M'.

C. COORDINATE ALL WORK REQUIRED FOR THE EXISTING PV SYSTEM WITH THE TOWN'S PV VENDOR, NAMASTE SOLAR, GRACE BJORLAND, 720.305.4497 (DIRECT), 303.447.0300 (MAIN), grace.bjorland@namastesolar.com.

D. REFER TO SPECIFICATION SECTION 28 5000 FOR EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM. TESTING AND REQUIRED PATHWAYS SHALL BE INCLUDED AS BASE BID. PROVIDE AN ALTERNATE PRICE FOR INSTALLATION OF CABLING, ANTENNAS AND ASSOCIATED EQUIPMENT.

E. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.



FIRST FLOOR POWER PLAN

1 / E301

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
03.27.26
37135
PROFESSIONAL ENGINEER

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FIRST FLOOR POWER PLAN

E301

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GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. UNLESS OTHERWISE NOTED, CIRCUIT NUMBERS ADJACENT TO DEVICES, EQUIPMENT TAGS OR FIXTURES REFER TO PANEL 'L1B'.

C. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF SUPERIOR DESIGN STANDARDS AND SPECIFICATIONS.

KEY NOTES (#)

1. NEW HEAD-END LIGHTING CONTROL EQUIPMENT. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.



1 / E401 **FIRST FLOOR LIGHTING PLAN - BATHHOUSE**

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

PROJECT TRUE

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1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

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FIRST FLOOR LIGHTING PLAN - BATHHOUSE

E401

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CONDUCTOR SCHEDULE

(ALUMINUM CONDUCTORS)

NOTES:

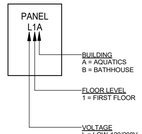
1. "AL" INCLUDED IN THE CONDUCTOR SIZE INDICATES ALUMINUM CONDUCTORS. ALL OTHER CONDUCTORS SHALL BE COPPER.
2. THIS SCHEDULE IS BASED ON THHN/THWN CONDUCTORS IN EMT. WHERE ALTERNATIVE CONDUCTORS OR RACEWAYS ARE USED, THE PROPER SIZING MUST BE CONFIRMED.
3. THE SIZES INDICATED ON THIS SCHEDULE REPRESENT MINIMUM REQUIREMENTS. INCREASES IN CONDUIT SIZES ARE PERMITTED AT THE CONTRACTOR'S DISCRETION, PROVIDED THAT THEY DO NOT RESULT IN INCREASED COST TO THE OWNER.
4. REFER TO DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON CONDUCTORS THAT MAY REQUIRE UP-SIZING TO ACCOMMODATE VOLTAGE DROP.
5. WHERE "G" IS NOT LISTED IN FEDER TAG, NO GROUNDING CONDUCTOR SHALL BE PROVIDED.

KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C	KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C	KEY	NO. SETS	CONDUCTORS (AWG - KCMIL)	"C
20.2G	1	2#12, 1#12G	3/4	20.3G	1	3#12, 1#12G	3/4	20.4G	1	4#12, 1#12G	3/4
30.2G	1	2#10, 1#10G	3/4	30.3G	1	3#10, 1#10G	3/4	30.4G	1	4#10, 1#10G	3/4
40.2G	1	2#8, 1#10G	3/4	40.3G	1	3#8, 1#10G	3/4	40.4G	1	4#8, 1#10G	3/4
50.2G	1	2#6, 1#10G	3/4	50.3G	1	3#6, 1#10G	3/4	50.4G	1	4#6, 1#10G	1
60.2G	1	2#4, 1#10G	1	60.3G	1	3#4, 1#10G	1	60.4G	1	4#4, 1#10G	1-1/4
70.2G	1	2#4, 1#8G	1	70.3G	1	3#4, 1#8G	1	70.4G	1	4#4, 1#8G	1-1/4
80.2G	1	2#3, 1#8G	1	80.3G	1	3#3, 1#8G	1-1/4	80.4G	1	4#3, 1#8G	1-1/4
90.2G	1	2#2, 1#8G	1	90.3G	1	3#2, 1#8G	1-1/4	90.4G	1	4#2, 1#8G	1-1/4
100.2G	1	2#1/0AL, 1#6AL G	1-1/4	100.3G	1	3#1/0AL, 1#6AL G	1-1/2	100.4G	1	4#1/0AL, 1#6AL G	1-1/2
110.2G	1	2#1/0AL, 1#4AL G	1-1/4	110.3G	1	3#1/0AL, 1#4AL G	1-1/2	110.4G	1	4#1/0AL, 1#4AL G	2
125.2G	1	2#2/0AL, 1#4AL G	1-1/4	125.3G	1	3#2/0AL, 1#4AL G	2	125.4G	1	4#2/0AL, 1#4AL G	2
150.2G	1	2#3/0AL, 1#4AL G	1-1/2	150.3G	1	3#3/0AL, 1#4AL G	2	150.4G	1	4#3/0AL, 1#4AL G	2-1/2
175.2G	1	2#4/0AL, 1#4AL G	1-/12	175.3G	1	3#4/0AL, 1#4AL G	2	175.4G	1	4#4/0AL, 1#4AL G	2-1/2
200.2G	1	2-250AL, 1#4AL G	2	200.3G	1	3-250AL, 1#4AL G	2-1/2	200.4G	1	4-250AL, 1#4AL G	3
225.2G	1	2-300AL, 1#2AL G	2	225.3G	1	3-300AL, 1#2AL G	2-1/2	225.4G	1	4-300AL, 1#2AL G	3
250.2G	1	2-350AL, 1#2AL G	2-1/2	250.3G	1	3-350AL, 1#2AL G	2-1/2	250.4G	1	4-350AL, 1#2AL G	3
300.2G	1	2-500AL, 1#2AL G	2-1/2	300.3G	1	3-500AL, 1#2AL G	3	300.4G	1	4-500AL, 1#2AL G	3
350.2G	2	2#4/0AL, 1#1AL G	1-1/2	350.3G	2	3#4/0AL, 1#1AL G	2	350.4G	2	4#4/0AL, 1#1AL G	2-1/2
400.2G	2	2-250AL, 1#1AL G	2	400.3G	2	3-250AL, 1#1AL G	2-1/2	400.4G	2	4-250AL, 1#1AL G	2-1/2
450.2G	2	2-300AL, 1#1/0AL G	2	450.3G	2	3-300AL, 1#1/0AL G	2-1/2	450.4G	2	4-300AL, 1#1/0AL G	3
500.2G	2	2-350AL, 1#1/0AL G	2-1/2	500.3G	2	3-350AL, 1#1/0AL G	2-1/2	500.4G	2	4-350AL, 1#1/0AL G	3
600.2G	2	2-500AL, 1#2/0AL G	2-1/2	600.3G	2	3-500AL, 1#2/0AL G	2-1/2	600.4G	2	4-500AL, 1#2/0AL G	3
700.2G	3	2-350AL, 1#3/0AL G	2	700.3G	3	3-350AL, 1#3/0AL G	2-1/2	700.4G	3	4-350AL, 1#3/0AL G	3
800.2G	3	2-400AL, 1#3/0AL G	2-1/2	800.3G	3	3-400AL, 1#3/0AL G	2-1/2	800.4G	3	4-400AL, 1#3/0AL G	3
1000.2G	4	2-350AL, 1#4/0AL G	2-1/2	1000.3G	4	3-350AL, 1#4/0AL G	2-1/2	1000.4G	4	4-350AL, 1#4/0AL G	3
1200.2G	4	2-500AL, 1-250AL G	2-1/2	1200.3G	4	3-500AL, 1-250AL G	3	1200.4G	4	4-500AL, 1-250AL G	3
1600.2G	6	2-400AL, 1-350AL G	2-1/2	1600.3G	6	3-400AL, 1-350AL G	2-1/2	1600.4G	6	4-400AL, 1-350AL G	3
2000.2G	7	2-500AL, 1-400AL G	2-1/2	2000.3G	7	3-500AL, 1-400AL G	3	2000.4G	7	4-500AL, 1-400AL G	3
2500.2G	9	2-500AL, 1-600AL G	3	2500.3G	9	3-500AL, 1-600AL G	3	2500.4G	9	4-500AL, 1-600AL G	3-1/2
3000.2G	10	2-500AL, 1-600AL G	3	3000.3G	10	3-500AL, 1-600AL G	3	3000.4G	10	4-500AL, 1-600AL G	3-1/2
3500.2G	12	2-500AL, 1-800AL G	3	3500.3G	12	3-500AL, 1-800AL G	3	3500.4G	12	4-500AL, 1-750AL G	3-1/2
4000.2G	13	2-500AL, 1-800AL G	3	4000.3G	13	3-500AL, 1-800AL G	3	4000.4G	13	4-500AL, 1-750AL G	3-1/2

GROUND SCHEDULE							
1G	1	1#8G	3/4	5G	1	1#1/0G	3/4
2G	1	1#6G	3/4	6G	1	1#2/0G	3/4
3G	1	1#4G	3/4	7G	1	1#3/0G	3/4
4G	1	1#2G	3/4				

ABBREVIATIONS	
MECH	SEE MECHANICAL EQUIPMENT SCHEDULE
XFMR	SEE TRANSFORMER SCHEDULE

PANEL DESIGNATION



GENERAL NOTES

(THIS SHEET ONLY)

A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.

B. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT XCEL ENERGY STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTRACTOR'S WORK REGARDING CT CABINET, METER BASE, TRANSFORMER PAD, ETC.

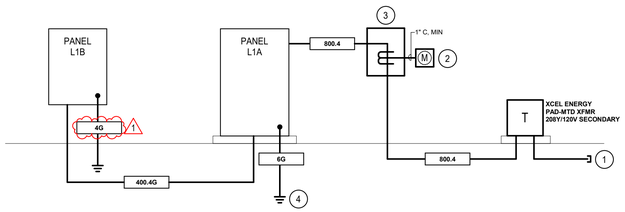
C. ALL EQUIPMENT SHALL BE FULLY RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT INDICATED IN THE SHORT CIRCUIT CALCULATIONS SUMMARY.

KEY NOTES (#)

1. STUB (2) EMPTY 4" CONDUITS OUT OF XCEL TRANSFORMER PAD FOR FUTURE INSTALLATION OF NEW XCEL 480V, 3-PHASE TRANSFROMER TO SERVE ELECTRIC POOL HEATERS.
2. PROVIDE CONDUIT TO METER LOCATION AND METER BASE PER XCEL STANDARDS.
3. PROVIDE EXTERIOR, NEMA 3R CT CABINET PER XCEL STANDARDS.
4. GROUND SERVICE PER THE NEC AND THE SPECIFICATIONS.

SHORT CIRCUIT CALCULATIONS SUMMARY

	LENGTH	VOLTAGE	WIRE SIZE	CONDUCTOR MATERIAL (C OR A)	CONDUIT (S OR N)	VOLTAGE CLASS (V)	CONDUCTORS (S OR T)	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	f	M	I(sc Fault)
XCEL XFMR	0	208	--	A	S	600	S	#N/A	--	52,000	#N/A	#N/A	61,563
CT CABINET	52	208	400	A	S	600	S	16,671	3	61,563	0.5330	0.6523	40,158
PANEL L1A	5	208	400	A	S	600	S	16,671	3	40,158	0.0334	0.9676	38,859
PANEL L1B	72	208	250	A	S	600	S	12,122	2	38,859	0.9610	0.5099	19,816



1 E601 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com
RH
ENGINEERING/TECHNOLOGY/LIGHTING
reesehackman.com

Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number: 2025.009
Issue: 100% PERMIT SET
Date: 01.09.2026
Drawn By: R.H.
Checked By: R.H.

Revisions:

Description	Date:
ADDENDUM #1	02.25.2026

Sheet title:

ELECTRICAL ONE-LINE DIAGRAM

E601

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2/25/2026 3:15:11 PM Autodesk Docs://Superior North Pool Renovation/2025003_SNP_ELEC_R24.rvt

MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE

GENERAL NOTES:

A. REFER TO MECHANICAL FLOOR PLANS FOR EQUIPMENT QUANTITIES.

B. REFER TO CONDUCTOR SCHEDULE FOR CONDUCTOR AND CONDUIT SIZES. ALL CONDUCTORS SHALL BE COPPER.

C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH DIVISIONS 21, 22 AND 23 CONTRACTOR PRIOR TO BEGINNING ANY ELECTRICAL ROUGH-IN.

D. COORDINATE OVERCURRENT PROTECTION DEVICE AND FEEDER SIZES WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ANY ELECTRICAL ROUGH-IN.

E. WHEN DISCONNECTING MEANS ARE NOT PROVIDED WITH THE EQUIPMENT, PROVIDE WEATHERPROOF DISCONNECT SWITCHES IN NEMA 3R ENCLOSURES FOR ALL EQUIPMENT THAT IS LOCATED ON THE ROOF OR ON THE EXTERIOR OF THE BUILDING.

F. BRANCH CIRCUIT SIZES DO NOT ACCOMMODATE FOR VOLTAGE DROP. REFER TO SPECIFICATIONS FOR INFORMATION ON ALLOWABLE VOLTAGE DROP PERMITTED AND UP-SIZE CONDUCTORS AND CONDUITS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

G. REFER TO "EQUIPMENT CONNECTIONS AND COORDINATION" SPECIFICATION FOR FURTHER REQUIREMENTS.

H. 'STO' INDICATES A MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.

I. 'C&P' INDICATES A CORD AND PLUG CONNECTION.

KEY NOTES:

1. UNIT IS PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH. WHERE THE DISCONNECT SWITCH IS THE FUSIBLE TYPE, PROVIDE A FUSE SIZED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
2. EQUIPMENT IS FED ELECTRICALLY FROM OUTDOOR UNIT. PROVIDE LOCAL DISCONNECT SWITCH FOR INDOOR UNIT AS INDICATED.
3. UNIT INCLUDES 120V, 1 PHASE CONDENSATE PUMP. PROVIDE SEPARTE ELECTRICAL CONNECTION FROM NEAREST CONVENIENCE RECEPTACLE CIRCUIT TO PUMP AND INCLUDE 20A1P DISCONNECT SWITCH WITH THERMAL OVERLOADS AS LOCAL DISCONNECTING MEANS AT PUMP.
4. PROVIDE SWITCHED RECEPTACLE IN ACCESSIBLE LOCATION BELOW SINK AND CONTROL VIA SWITCH INDICATED ON PLAN.
5. COORDINATE GFCI RECEPTACLE LOCATION SO THAT IT IS CONCEALED FROM VIEW, BUT REMAINS READILY ACCESSIBLE. 1

KEY	ITEM	LISTED LOAD			EQUIV. LOAD (VA)	VOLTS	PH	BRANCH CIRCUIT	DISCONNECT	FUSE	KEY NOTES
		HP	MCA/FLA	KW				WIRING AND CONDUIT			
CU-1	SPLIT SYSTEM OUTDOOR UNIT #1 (BATHHOUSE)		38		7904	208	1	60.2G	INTEGRAL	NA	1
EF-1	EXHAUST FAN #1 (MENS RR)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-2	EXHAUST FAN #2 (MENS SHOWER)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-3	EXHAUST FAN #3 (FAMILY CHANGING)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-4	EXHAUST FAN #4 (MECH ROOM)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-5	EXHAUST FAN #5 (ALL SEASON RR)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-6	EXHAUST FAN #6 (WOMENS RR)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-7	EXHAUST FAN #2 (MENS SHOWER)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EF-8	EXHAUST FAN #8 (GUARDS/FIRST AID)	1/6			528	120	1	20.2G	20A1P STO	NA	1
EF-9	EXHAUST FAN #9 (PUMP ROOM)	1/3			864	120	1	20.2G	INTEGRAL	NA	1
EF-10	EXHAUST FAN #10 (CHEMICAL ROOM)	1/4			696	120	1	20.2G	INTEGRAL	NA	1
EF-11	EXHAUST FAN #11 (CHEMICAL ROOM)	1/4			696	120	1	20.2G	INTEGRAL	NA	1
EF-12	EXHAUST FAN #12 (STORAGE ROOMS)	1/6			528	120	1	20.2G	INTEGRAL	NA	1
EF-13	EXHAUST FAN #13 (STORAGE/ELEC)	1/15			49	120	1	20.2G	INTEGRAL	NA	1
EUH-1	ELECTRIC UNIT HEATER #1 (PUMP ROOM)		15.9		5728	208	3	20.3G	30A3P	NA	
EWC-1	ELECTRIC WATER COOLER #1	1/5			600	120	1	20.2G	C&P	NA	5
EWH	ELECTRIC WALL HEATER			2.00	2004	120	1	30.2G	INTEGRAL	NA	1
EWH-1	ELECTRIC WATER HEATER #1			27.00	27000	208	3	100.3G	100A3P	NA	
EWH-2	ELECTRIC WATER HEATER #2			5.82	5824	208	1	40.2G	60A2P	NA	
FCU-1	SPLIT SYSTEM INDOOR UNIT #1 (BATHHOUSE)		38		7904	208	1	60.2G	60A2P	NA	2,3
GD-1	GARBAGE DISPOSAL #1	1/2			1176	120	1	20.2G	C&P	NA	4
GWH-1	GAS WATER HEATER #1		9.5		1140	120	1	20.2G	20A1P		
PP-1	RECIRCULATION PUMP #1	1/6			528	120	1	20.2G	20A1P STO	NA	
SE-1	SEWAGE EJECTOR #1	1/2			1176	120	1	20.2G	20A1P STO	NA	
SE-2	SEWAGE EJECTOR #2	1/2			1176	120	1	20.2G	20A1P STO	NA	
SECP-1	SEWAGE EJECTOR CONTROL PANEL #1		5		600	120	1	20.2G	20A1P	NA	
SP-1	SUMP PUMP #1	1/2			1176	120	1	20.2G	20A1P STO	NA	
SP-2	SUMP PUMP #2	1/2			1176	120	1	20.2G	20A1P STO	NA	
SPCP-1	SUMP PUMP CONTROL PANEL #1		5		600	120	1	20.2G	20A1P	NA	

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. INTERIOR LUMINAIRES SHALL BE LED WITH A CCT OF 3500K AND A MINIMUM 90 CRI, UON.

B. DIMMING TECHNOLOGY DEFINITIONS: 0-10V (2-WIRE DC, PURPLE/GRAY WIRES); MLV = MAGNETIC LOW VOLTAGE (FORWARD PHASE, LEADING EDGE, TRIAC); ELV = ELECTRONIC LOW VOLTAGE (REVERSE PHASE, TRAILING EDGE); DALI (DIGITAL ADDRESSABLE LIGHTING INTERFACE); DMX (DIGITAL MULTIPLEX); L = LUTRON ECOSYSTEM; NA = NON-DIM.

C. LUMINAIRE FINISHES SHALL BE SELECTED FROM MANUFACTURERS STANDARD (UNLESS NOTED AS A CUSTOM FINISH), AS SELECTED BY THE ARCHITECT DURING SUBMITTAL REVIEW. CONFIRM ALL SELECTIONS IN WRITING PRIOR TO RELEASING ANY ORDER.

D. FOR FIXTURES WHERE MOUNTING HEIGHT IS NOT INDICATED ON THESE ELECTRICAL DRAWINGS, COORDINATE WITH ARCHITECTURAL AND INTERIOR PLANS, ELEVATIONS, AND DETAILS FOR MOUNTING HEIGHTS OF ALL WALL-MOUNT AND PENDANT-MOUNT LUMINAIRES. IF HEIGHT IS NOT INDICATED ON THOSE DOCUMENTS, COORDINATE HEIGHT WITH THE ARCHITECT IN WRITING PRIOR TO ROUGH-IN.

E. RECESS DEPTH/OAH (OVERALL HEIGHT) DIMENSION CORRESPONDS TO THE LUMINAIRE LISTED UNDER THE MANUFACTURER AND MODEL COLUMN. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY THAT LUMINAIRES LISTED UNDER THE ALTERNATE MANUFACTURER COLUMN WILL NOT ENCOUNTER INSTALLATION ISSUES DUE TO A DIFFERENCE IN OVERALL DEPTH OR HEIGHT.

F. LUMINAIRE MOUNTING: CONFIRM EACH CEILING TYPE (GRID WIDTH/TYPE, GYPSUM CEILING, WOOD, METAL, ETC.) BEFORE ORDERING LUMINAIRES. CONTRACTOR IS RESPONSIBLE TO ORDER THE CORRECT MOUNTING HARDWARE (BAR HANGERS, SURFACE-MOUNT KIT, FLANGE KIT, ETC.). PROVIDE FIXTURE THAT HAS THE APPROPRIATE FLANGE FOR THE TYPE OF CEILING IN WHICH IT WILL BE INSTALLED.

G. FURNISH ALL NECESSARY LUMINAIRE COMPONENTS TO FACILITATE A COMPLETE AND FUNCTIONAL LIGHTING SYSTEM. I.E. TRACK LIGHTING AND LED TAPE LIGHT CONNECTORS, DRIVERS, HANGERS, END FEEDS, ETC.

H. STRUCTURALLY SUPPORT LUMINAIRES WEIGHING MORE THAN 50 POUNDS INDEPENDENT FROM THE OUTLET BOX, PER NEC 314.27.

I. LED TAPE INSTALL USING ADHESIVE BACKING: PREP THE MOUNTING SURFACE PER MANUFACTURERS RECOMMENDATIONS. AT MINIMUM, CLEAN WITH 50/50 ALCOHOL MIX AND APPLY 3M PRIMER 94. AFTER INSTALL, APPLY SMALL AMOUNT OF EPOXY UNDER EACH END OF EACH RUN AND PLACE MOUNTING CLIPS EVERY 12".

J. LISTED ALTERNATE MANUFACTURERS: ALTERNATE FIXTURE SHALL PROVIDE EQUAL OR BETTER DELIVERED LUMEN OUTPUT, EFFICACY, DISTRIBUTION, WARRANTY, ETC. THAN THE SPECIFIED MODEL. INCLUSION OF MANUFACTURER NAME IN ALTERNATE MANUFACTURER COLUMN DOES NOT IMPLY THAT ALL MANUFACTURERS LISTED OFFER AN ACCEPTABLE ALTERNATE TO THE SPECIFIED FIXTURE.

K. EC SHALL PROVIDE ALL LIGHTING PLANS, LIGHT FIXTURE SCHEDULE, LIGHTING CONTROL DIAGRAM(S), AND LIGHTING CONTROLS SCHEDULE(S), LIGHTING SPECIFICATIONS, AND RELEVANT LIGHTING DETAILS TO ALL DISTRIBUTORS PROVIDING PRICING.

L. PROVIDE SILICONE FILLED WATERPROOF CONNECTORS FOR ALL EXTERIOR LUMINAIRES.

M. INSTALL LUMINAIRES SO THAT DIFFUSER, LAMP/SOURCE ORIENTATION, OR OTHER DEFINING FEATURE OF ADJACENT FIXTURES IS ALIGNED, WHERE APPLICABLE.

N. REFER TO E800 DRAWINGS FOR CONCRETE BASE DETAIL.

O. REFER TO SPECIFICATIONS FOR FURTHER LIGHTING REQUIREMENTS.

KEY NOTES:

1. PROVIDE NUMBER OF LED ROLLS REQUIRED TO ACCOMODATE LENGTH OF FIXTURE SHOWN ON PLAN. LED STRIP IS FIELD CUTTABLE, PROVIDE NUMBER OF SPECIFIED DIMMABLE DRIVERS REQUIRED TO ACCOMODATE LENGTH OF LED RIBBON SHOWN ON PLAN. FILED VERIFY LENGTH OF FIXTURE REQUIRED PRIOR TO BEGINNING INSTALLATION TO ENSURE THAT FIXTURE IS RUN WITHIN 3" MAXIMUM OF END OF COVE RUN. PROVIDE CHANNEL COVER.
2. EXIT SIGNS: PROVIDE NUMBER OF FACES, MOUNTING TYPE, AND DIRECTIONAL ARROWS AS INDICATED ON THE PLANS.

KEY	DESCRIPTION	LAMPS	(VA)	MANUFACTURER	MODEL	ALTERNATE MANUFACTURER	VOLTAGE	KEY NOTES	MOUNTING	RECESS DEPTH/ OAH
B1-5	2"X5' LINEAR RECESSED, PERIMETER LED, WITH ACRYLIC LENS, LENGTH SHOWN ON PLANS, DIM/0-10V	500 LM/FT	28	AXIS	SCPLED-500-90-35K-FL-S(L)-W-UNV-DP-1	FINELITE, PRUDENTIAL	120		RECESSED	3-1/16"
B1-8	2"X8' LINEAR RECESSED, PERIMETER LED, WITH ACRYLIC LENS, LENGTH SHOWN ON PLANS, DIM/0-10V	500 LM/FT	44	AXIS	SCPLED-500-90-35K-FL-S(L)-W-UNV-DP-1	FINELITE, PRUDENTIAL	120		RECESSED	3-1/16"
C1	COVE LIGHT, TAPE IN LENSED EXTRUSION, 1% DIM/0-10V	346 LM/FT	4	LUMINII	KS-(LENGTH)-HE48MO-35K-HF-A-SA-(FEED); PDCU-D	ACOLYTE, CALI, DIODE LED	120	1	COVE	1" OAH
F1	6" ROUND DOWNLIGHT, 60 DEGREE, WHITE TRIM, 1% DIM/0-10V, WET LOCATION LISTED	1729 LM	20	GOTHAM	EV06SH-35/20-DFR-SOL-MVOLT-EZ1	ALW, COOPER, SIGNIFY	120		RECESSED	7-1/2"
F2	4" ROUND DOWNLIGHT, 60 DEGREE BEAM, WHITE TRIM, 1% DIM/0-10V, DAMP LOCATION LISTED	1684 LM	20	GOTHAM	EV04SH-35/20-DFR-SOL-MVOLT-EZ1	ALW, COOPER, SIGNIFY	120		RECESSED	6-5/8"
F2E	4" ROUND DOWNLIGHT, 60 DEGREE BEAM, WHITE TRIM, 1% DIM/0-10V, DAMP LOCATION LISTED, WITH INTEGRAL EMERGENCY BATTERY PACK	1684 LM	20	GOTHAM	EV04SH-35/20-DFR-SOL-MVOLT-EZ1-ELR	ALW, COOPER, SIGNIFY	120		RECESSED	6-5/8"
K1	INDIRECT LED WALL MOUNTED FLOOD LIGHT, 1% DIM/0-10V	2446 LM	20	LIGMAN LIGHTING	UVK-30021-20W-W-W40-01-120/277V-DIM	COLE LIGHTING, IN-PERFORMANCE, KIM LIGHTING	120		SURFACE - WALL	4.3" OAH
P1	SINGLE HEAD, LED POLE, TYPE IV DISTRIBUTION, ROUND POLE, 4000K CCT	25184 LM	154	SIGNIFY	P26-A07-840-T4M-AR1-UNV-010V-BK	COOPER, LITHONIA	208		POLE	15'-0"
P2	SINGLE HEAD, LED POLE, TYPE V DISTRIBUTION, ROUND POLE, 4000K CCT	26727 LM	154	SIGNIFY	P26-A07-840-T5M-AR1-UNV-010V-BK	COOPER, LITHONIA	208		POLE	15'-0"
S1	4' LENSED STRIP, 10% DIM/0-10V	4611 LM	30	ILP	DSC4-4L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE	3.4" OAH
S2	8' LENSED STRIP, 10% DIM/0-10V	6257 LM	40	ILP	DSC8-8L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE	3.4" OAH
S3	4' INDUSTRIAL STRIP WITH FIBERGLASS HOUSING	4000 LM	30	COOPER	4VT2-LD5-4000-DR-UNV-L835-CD1-WL-SSL	HUBBELL, KENALL, LITHONIA	120		SURFACE	5-7/8" OAH
U1	UNDERCABINET LED TAPE, IN AL. EXTRUSION WITH FROSTED DIFFUSER, 1% DIM/0-10V	346 LM/FT	4	LUMINII	KS-(LENGTH)-HE48MO-35K-HF-A-SA-(FEED); PDCU-D	ACOLYTE, CALI, DIODE LED	120	1	SURFACE	1" OAH
W1	2' LED WRAP, 10% DIM/0-10V	2294 LM	16	ILP	DSC2-2L-HE-U-935-FFLGR-NEKO-DIM1	COOPER, HUBBELL, KENALL, LITHONIA	120		SURFACE - WALL	3.4" OAH
X1	EXIT/EMERGENCY LIGHT COMBO: POLYCARBONATE, UNIVERSAL MOUNTING, GREEN LETTERING, WHITE HOUSING, WITH INTEGRAL BATTERY BACK-UP, SELF DIAGNOSTICS	LED INCLUDED	5	SURE-LITES	LPXC-50-SD	WILLIAMS, HUBBELL, LITHONIA, SIGNIFY	120	2	SURFACE	7-1/2" OAH
X2	EXIT SIGN: POLYCARBONATE, UNIVERSAL MOUNTING, GREEN LETTERING, WHITE HOUSING, WITH INTEGRAL BATTERY BACK-UP, SELF DIAGNOSTICS	LED INCLUDED	5	SURE-LITES	LPX-7-G-SF	WILLIAMS, HUBBELL, LITHONIA, SIGNIFY	120	2	SURFACE	8-11/16" OAH
Y1	EMERGENCY LED BUG-EYE LIGHTING UNIT, SELF DIAGNOSTICS	LED INCLUDED	5	WILLIAMS	EMER/LED/WHT-SDT-D	COOPER, HUBBELL, LITHONIA, SIGNIFY	120		SURFACE	4-9/16" OAH

1 DELETED FIXTURE(S): TYPE W2

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Superior, CO North Pool

1650 S INDIANA ST, SUPERIOR, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
01.09.2026
37135
PROFESSIONAL ENGINEER

Project Number: 2025.009
Issue: 100% PERMIT SET
Date: 01.09.2026
Drawn By: R.H.
Checked By: R.H.

Revisions:

Description	Date:
ADDENDUM #1	02.25.2026

Sheet title:

ELECTRICAL SCHEDULES

E701

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AQUATICS EQUIPMENT CONNECTIONS SCHEDULE

GENERAL NOTES:

A. BOND AND GROUND ALL AQUATICS EQUIPMENT, UNDERWATER POOL LIGHTS, POOL REINFORCING STEEL. ACTIVITIES DECK EQUIPMENT AND ALL OTHER EMBEDDED METALLIC ITEMS IN COMPLIANCE WITH THE NEC AND ALL LOCAL ELECTRICAL CODES. PROVIDE AN EQUIPOTENTIAL BONDING GRID IN POOL DECK PER N.E.C. 680.26.

B. HARD WIRE EXHAUST FANS AND RELATED CONTROLS IN THE POOL EQUIPMENT ROOMS AND STORAGE ROOMS FOR CHLORINE AND ACID CHEMICALS. COORDINATE THE ELECTRICAL REQUIREMENTS WITH THE MECHANICAL AND POOL CONTRACTORS.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING BETWEEN AQUATICS EQUIPMENT PER THE MANUFACTURER'S WIRING DIAGRAMS. AQUATICS EQUIPMENT AND PUMPS ARE BY THE POOL CONTRACTOR.

D. UNLESS OTHERWISE NOTED, POOL CONTRACTOR SHALL FURNISH ALL MOTOR STARTERS AND/OR VFDS AND ELECTRICAL CONTRACTOR SHALL INSTALL AND POWER ALL MOTOR STARTERS AND/OR VFDS. COORDINATE EXACT REQUIREMENTS WITH MOTOR MANUFACTURERS AND POOL CONTRACTOR. PHASE LOSS AND PHASE REVERSAL PROTECTION SHALL BE INCLUDED WITH ALL STARTERS AND/OR VFDS. COORDINATE THE REQUIRED NUMBER OF CONTACTS WITH POOL EQUIPMENT INSTALLER PRIOR TO INSTALLING STARTER.

E. EC SHALL PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT OPERATING AT 120V OR GREATER. CONNECTIONS TO PUMPS SHALL UTILIZE AT LEAST 18" OF LIQUIDTIGHT, FLEXIBLE, METALLIC CONDUIT, LFMC. REFER TO AQUATICS DETAILS AND DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F. REFER TO CONDUCTOR SCHEDULE FOR SIZE OF CONDUCTORS AND CONDUITS.

G. BRANCH CIRCUIT SIZES DO NOT ACCOMMODATE FOR VOLTAGE DROP. REFER TO SPECIFICATIONS FOR INFORMATION ON ALLOWABLE VOLTAGE DROP PERMITTED AND UP-SIZE CONDUCTORS AND CONDUITS AS NECESSARY TO COMPLY WITH REQUIREMENTS.

H. REFER TO "EQUIPMENT CONNECTIONS AND COORDINATION" SPECIFICATION FOR FURTHER REQUIREMENTS.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKS AND/OR LINE-VOLTAGE CONTROL WIRING AS DESCRIBED IN THIS SCHEDULE AND INDICATED ON POOL EQUIPMENT CONTROLS DETAILS ON AQUATICS DRAWINGS. COORDINATE WITH POOL EQUIPMENT INSTALLER.

J. ALL ELECTRICAL EQUIPMENT FURNISHED IN POOL MECHANICAL, POOL STORAGE AND CHEMICAL STORAGE ROOMS SHALL BE STAINLESS STEEL OR NON-METALLIC, WET LOCATION LISTED, TO RESIST CORROSION FROM POOL CHEMICALS.

K. LOCATE EMERGENCY SHUT-OFF PUSH-BUTTONS WHERE INDICATED ON THE DRAWINGS. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN. INCLUDE CLEAR FLIP-UP COVER.

L. PROVIDE SUBMITTALS ON ALL ITEMS LISTED IN THIS SCHEDULE THAT ARE FURNISHED BY THE ELECTRICAL CONTRACTOR.

M. REFER TO CONTROL SCHEMATIC DIAGRAMS ON AQUATICS (PL) DRAWINGS. EC SHALL PROVIDE ALL WIRING AT 120V OR GREATER, AS INDICATED ON THOSE DRAWINGS.

N. EC SHALL FURNISH AND INSTALL STARTERS AS REQUIRED FOR ALL PUMPS/MOTORS NOT ALREADY FURNISHED WITH A STARTER OR VFD.

KEY NOTES:

1. POOL CONTRACTOR SHALL FURNISH VARIABLE FREQUENCY DRIVE (VFD). ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE VARIABLE FREQUENCY DRIVES (VFD), INCLUDING FINAL CONNECTION TO PUMP. REFER TO AQUATICS DOCUMENTS FOR SPECIFICATIONS ON VARIABLE FREQUENCY DRIVES AND COORDINATE SPECIFIC REQUIREMENTS WITH POOL CONTRACTOR AND EQUIPMENT SUPPLIER PRIOR TO BID. IF VFD INCLUDES A LISTED MEANS TO DISCONNECT ALL CONDUCTORS TO THE MOTOR AND IS WITHIN SIGHT OF THE MOTOR PER THE NEC, A SEPARATE DISCONNECT SWITCH SHALL NOT BE REQUIRED.
2. PROVIDE A 3-POSITION SELECTOR SWITCH, LABELED "OFF-BACKWASH-FILTRATION" NEAR THE FILTRATION PUMP.
3. PROVIDE REMOTE START/STOP STATION LOCATED IN LIFEGUARD OFFICE FOR EACH FEATURE PUMP. INCLUDE A CLEAR, LOCKABLE ENCLOSURE OVER EACH START/STOP BUTTON. COORDINATE LOCATION AND DETAILS WITH AQUATICS CONTRACTOR AND OWNER.
4. PROVIDE (1) 20A DEDICATED CIRCUIT TO THE FILTER CONTROL PANEL (MOUNTED ON FILTER TANK).
5. PROVIDE 2#12, 1#12G, 1/2"C FROM THE FILTER CONTROL PANEL TO THE CHEMICAL CONTROLLER. PROVIDE 1/2"C FROM THE FILTER CONTROL PANEL TO THE UV CONTROL CABINET. PROVIDE 1/2"C FROM THE FILTER CONTROL PANEL TO THE FILTRATION PUMP VFD.
6. CHEMICAL CONTROLLER SHALL POWER THE CHLORINE FEED RELAYS, CO2 PH FEED RELAYS AND AUTOFILL WATER LEVEL CONTROL VALVES. PROVIDE INTERNET CONNECTION.
7. PROVIDE DUPLEX RECEPTACLE AND HARDWIRE IT DIRECTLY TO THE PH FEED RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE RECEPTACLE. LABEL EACH CHEMICAL FEEDER OUTLET ACCORDINGLY, INCLUDING WHICH POOL IT FEEDS.
8. PROVIDE DUPLEX RECEPTACLE AND HARDWIRE IT DIRECTLY TO THE CHLORINE FEED RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE RECEPTACLE. LABEL EACH CHEMICAL FEEDER OUTLET ACCORDINGLY, INCLUDING WHICH POOL IT FEEDS.
9. HARDWIRE AUTOFILL'S WATER LEVEL CONTROL VALVE DIRECTLY TO THE AUTOFILL RELAY ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE VALVE.
10. PROVIDE A MAGNETIC MOTOR STARTER WITH A MANUAL ON/OFF SWITCH. MOTOR STARTER SHALL HAVE LOW VOLTAGE CAPABILITY TO CONNECT TO HAND/OFF/AUTO SWITCH FOR FILTRATION PUMP.
11. PROVIDE MINIMUM 1-1/2" CONDUIT FOR LAMP POWER CORD FROM CONTROL CABINET TO CHAMBER (LAMP POWER CORDS PROVIDED WITH UV SYSTEM). EC TO INSTALL BOTH CONDUIT AND POWER CORD. PROVIDE MINIMUM OF 1" CONDUIT FOR LOW VOLTAGE/SIGNAL CABLES FROM CONTROL CABINET TO CHAMBER (PROVIDED WITH UV SYSTEM).
12. CONTROL PANEL SHAL FEED (2) CIRCULATION PUMPS. LOCATE DISCONNECT SWITCH NEAR DOOR AND PROVIDE PERMANET LABEL ON DISCONNECT. PROVIDE EPO AT EACH DOOR INTO SPACE IN COMPLIANCE WITH ASME CSD-1 AND NFPA-70.

KEY	ITEM	LISTED LOAD HP	LISTED LOAD MCA	LISTED LOAD KW	EQUIV. LOAD (VA)	VOLTS	PH	BRANCH CIRCUIT WIRING AND CONDUIT	DISCONNECT	KEY NOTES
A-AC1	AIR COMPRESSOR #1	2			2880	120	1	50.2G	STARTER	10
A-AF1A	AUTOFILL - LEISURE POOL		15		1800	120	1	20.2G	20A1P	9
A-AF1B	AUTOFILL - SPLASH PAD		15		1800	120	1	20.2G	20A1P	9
A-AP1A	C1A CHEMICAL FEEDER - CO2 - LEISURE POOL		1.7		204	120	1	20.2G	C&P	7
A-AP1B	C1B CHEMICAL FEEDER - CO2 - SPLASH PAD		1.7		204	120	1	20.2G	C&P	7
A-C1A	CHEMICAL CONTROLLER - LEISURE POOL		15		1800	120	1	20.2G	20A1P	6
A-C1B	CHEMICAL CONTROLLER - SPLASH PAD		15		1800	120	1	20.2G	20A1P	6
A-CP1A	C1A CHEMICAL FEEDER - CHLORINE RM - LEISURE POOL		15		1800	120	1	20.2G	C&P	8
A-CP1B	C1B CHEMICAL FEEDER - CHLORINE RM - SPLASH PAD		15		1800	120	1	20.2G	C&P	8
A-F1A	FILTER CONTROL PANEL - LEISURE POOL		12		1440	120	1	20.2G	20A1P	4,5
A-F1B	FILTER CONTROL PANEL - SPLASH PLAY POOL		12		1440	120	1	20.2G	20A1P	4,5
A-H1A	POOL WATER HEATER CONTROL PANEL - LEISURE POOL		13		1560	120	1	20.2G	20A1P	12
A-H1A-B	POOL WATER HEATER -BOILER - LEISURE POOL		13		1560	120	1	20.2G	20A1P	12
A-H1A-CP	POOL WATER HEATER - CIRCULATING PUMP - LEISURE POOL		9		1080	120	1	20.2G	20A1P	12
A-P1A	FILTRATION PUMP - LEISURE POOL	30			28821	208	3	125.3G	200A3P	1
A-P1B	FILTRATION PUMP - SPLASH PAD	5			6305	208	3	40.3G	60A3P	1,2
A-P2A	SLIDE PUMP - LEISURE POOL	15			17401	208	3	90.3G	100A3P	1,3
A-P2B	ACTIVITY PUMP - SPLASH PAD	2			2810	208	3	40.3G	60A3P	1,3
A-P3A	ACTIVITY PUMP - LEISURE POOL	5			6305	208	3	40.3G	60A3P	1,3
A-P4A	ACTIVITY PUMP - LEISURE POOL	2			2810	208	3	20.3G	30A3P	1,3
A-P5A	ACTIVITY PUMP - LEISURE POOL	25			28173	208	3	110.3G	200A3P	1,3
A-UV1B	WELLNESS POOL UV - CONTROL CABINET			1.5	1500	208	1	30.2G	30A2P	11

PANEL SCHEDULE

L1A

PROJECT:	SUPERIOR SOUTH POOL	VOLTAGE L-L / L-N:	208/120
JOB NO.:	2025039	TYPE:	3PH, 4W
LOCATION:	ELECTRIC 109	SHORT CIRCUIT RATING:	REFER TO ELECTRICAL ONE-LINE DIAGRAM
MINIMUM BUS CAPACITY:	600 A	MOUNTING:	SURFACE
MAIN OVERCURRENT DEVICE:	600 A	COMMENTS:	INTEGRAL SPD
DESIGN CAPACITY:	600 A		

CKT NO.	DESCRIPTION	DEVICE AMPS	POLE	A		B		C		POLE	DEVICE AMPS	DESCRIPTION	CKT NO.
1	A-P1A - FILTRATION PUMP - LAP POOL	125	3	9607	750					2	20	A-UV1B - WELLNESS POOL UV CONTROL CABINET	2
3	--	--	--			9607	750			--	--	--	4
5	--	--	--					9607	1440	1	20	A-F1A - FILTER CONTROL PANEL - LAP POOL	6
7	A-P2A - SLIDE PUMP - LEISURE POOL	90	3	5800	1800					1	20	A-AF1A - AUTOFILL LAP POOL	8
9	--	--	--			5800	1440			1	20	A-F1B - FILTER CONTROL PANEL - SPLASH PLAY POOL	10
11	--	--	--					5800	1800	1	20	A-AF1B - AUTOFILL SPLASH PLAY POOL	12
13	A-P3A - ACTIVITY PUMP - LEISURE POOL	35	3	2102	408					1	20	A-AP1A, A-AP1B - C1A, C1B CHEM FDRS - CHEM ROOM	14
15	--	--	--			2102	2880			1	40	A-AC1 - AIR COMPRESSOR #1	16
17	--	--	--					2102	1800	1	20	A-C1A - CHEMICAL CONTROLLER - LEISURE POOL	18
19	A-P4A - ACTIVITY PUMP - LEISURE POOL	15	3	937	1800					1	20	A-C1B - CHEMICAL CONTROLLER - LAP POOL	20
21	--	--	--			937	3600			1	20	A-CP1A, A-CP1B - C1A, C1B CHEM FEEDERS CHEM ROOM	22
23	--	--	--					937	2102	3	35	A-P1B - FILTRATION PUMP - SPLASH PLAY POOL	24
25	A-P5A - ACTIVITY PUMP - LEISURE POOL	110	3	9391	2102					--	--	--	26
27	--	--	--			9391	2102			--	--	--	28
29	--	--	--					9391	937	3	15	A-P2B - ACTIVITY PUMP - SPLASH PLAY POOL	30
31	REC - PUMP PIT - SLIDE TOWER	20	1	360	937					--	--	--	32
33	SPARE	20	1			0	937			--	--	--	34
35	SPARE	20	1					0	1560	1	20	A-H1A - POOL WATER HEATER CONTROL PANEL	36
37	SPARE	20	1	0	1080					1	20	A-H1A-CP - POOL WATER HEATER CIRC PUMP	38
39	SPARE	20	1			0	1560			1	20	A-H1A-B - POOL WATER HEATER - BOILER	40
41	SPARE	20	1					0	0	1	20	SPARE	42
43	BUSSED SPACE	--	1	--	0					1	20	SPARE	44
45	BUSSED SPACE	--	1			--	0			1	20	SPARE	46
47	BUSSED SPACE	--	1					--	0	1	20	SPARE	48
49	BUSSED SPACE	--	1	--	11383					3	150	PANEL 'L1A'	50
51	BUSSED SPACE	--	1			--	13062			--	--	--	52
53	BUSSED SPACE	--	1					--	10829	--	--	--	54
		TOTAL LOAD:		48455 VA		54167 VA		48303 VA					
		TOTAL AMPS:		403.988 A		451.587 A		402.529 A					

LOAD CLASSIFICATION	CONNECTED	D.F.	EST. DEMAND	PANEL TOTALS
LIGHTING LOAD:	3385 VA	125%	4232 VA	
RECEPTACLE LOAD:	10800 VA	FIRST 10000VA AT 100%, REMAINING AT 50%	10400 VA	TOTAL CONN. LOAD: 150926 VA
LARGEST MOTOR:		---	---	TOTAL EST. DEMAND: 151372 VA
MOTOR LOAD:	Not Computed	LARGEST AT 125%, REMAINING AT 100%	Not Computed	TOTAL CONN.: 419 A
KITCHEN EQUIPMENT:	Not Computed	0%	Not Computed	TOTAL EST. DEMAND: 420 A
EQUIPMENT:	131710 VA	100%	131710 VA	
HEATING:	Not Computed	0.00%	Not Computed	
ELEVATOR:	Not Computed	0.00%	0.00%	
SUB-FED PANEL:	Not Computed	0.00%	Not Computed	

NOTES:

PANEL SCHEDULE

L1M

PROJECT:	SUPERIOR SOUTH POOL	VOLTAGE L-L / L-N:	208/120
JOB NO.:	2025039	TYPE:	3PH, 4W
LOCATION:	POOL MECH 107	SHORT CIRCUIT RATING:	REFER TO ELECTRICAL ONE-LINE DIAGRAM
MINIMUM BUS CAPACITY:	150 A	MOUNTING:	SURFACE
MAIN OVERCURRENT DEVICE:	MLO	COMMENTS:	
DESIGN CAPACITY:	150 A		

CKT NO.	DESCRIPTION	DEVICE AMPS	POLE	A		B		C		POLE	DEVICE AMPS	DESCRIPTION	CKT NO.
1	LTG - EXTERIOR BLDG MOUNTED	20	1	805	84					2	20	LTG - SITE (BOLLARDS)	2
3	LTG - INTERIOR	20	1			1412	84			--	--	--	4
5	LTG - CONTROL EQUIPMENT	20	1					180	400	1	20	LTG - SITE (LOT) [1]	6
7	REC - MENS RM	20	1	900	500					1	20	LTG - POOL LIGHTS [1]	8
9	REC - GUARDS	20	1			540	500			1	20	LTG - POOL LIGHTS	10
11	REC - CONTROL DESK QUADS	20	1					720	500	1	20	SECURITY PANEL [1]	12
13	REC - CONTROL DESK QUADS	20	1	720	0					2	50	PV DISCONNECT [1]	14
15	REC - LOBBY, JANITOR CLOSET	20	1			720	0			--	--	--	16
17	REC - WOMENS, FAMILY CHANGING	20	1					1080	65	1	20	EXHAUST FANS 3,4	18
19	WOMENS HAND DRYER	20	1	1150	600					1	20	EF-A [1]	20
21	FAMILY HAND DRYER	20	1			1150	600			1	20	EF-B [1]	22
23	MENS HAND DRYER	20	1					1150	193	1	20	PP-1 - RECIRC PUMP	24
25	GUARDS - REFRIGERATOR	20	1	1260	180					1	20	REC - MONUMENT SIGN	26
27	REC - STO 104, EXTERIOR	20	1			1080	180			1	20	REC - POOL DECK [1]	28
29	REC - VENDING MACHINE GFCI	20	1					1080	500	1	20	PV PANEL [1]	30
31	REC - VENDING MACHINE GFCI	20	1	1080	0					1	20	SPARE	32
33	REC - ELEC, POOL MECH, CHEM RMS	20	1			1620	0			1	20	SPARE	34
35	EWC-1	20	1					600	0	1	20	SPARE	36
37	EXHAUST FANS 1,2	20	1	103	4000					3	50	EWH-1	38
39	GARBAGE DISPOSAL	20	1			1176	4000			--	--	--	40
41	REC - GUARD ROOM AC	20	1					360	4000	--	--	--	42
		TOTAL LOAD:		11383 VA		13062 VA		10829 VA					
		TOTAL AMPS:		95.565 A		109.563 A		90.239 A					

LOAD CLASSIFICATION	CONNECTED	D.F.	EST. DEMAND	PANEL TOTALS
LIGHTING LOAD:	3385 VA	125%	4232 VA	
RECEPTACLE LOAD:	10440 VA	FIRST 10000VA AT 100%, REMAINING AT 50%	10220 VA	TOTAL CONN. LOAD: 35274 VA
LARGEST MOTOR:		---	---	TOTAL EST. DEMAND: 35900 VA
MOTOR LOAD:	Not Computed	LARGEST AT 125%, REMAINING AT 100%	Not Computed	TOTAL CONN.: 98 A
KITCHEN EQUIPMENT:	Not Computed	0%	Not Computed	TOTAL EST. DEMAND: 100 A
EQUIPMENT:	16418 VA	100%	16418 VA	
HEATING:	Not Computed	0.00%	Not Computed	
ELEVATOR:	Not Computed	0.00%	0.00%	
SUB-FED PANEL:	Not Computed	0.00%	Not Computed	

NOTES:

[1] - REROUTE EXISTING CIRCUIT TO NEW CIRCUIT BREAKER IN NEW PANEL AS NOTED.

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Superior South Pool
3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
03.27.26
37135
PROFESSIONAL ENGINEER

Project Number: 2025.082
Issue: 100% CD
Date: MARCH 27, 2026
Drawn By: R.H.
Checked By: R.H.

Revisions:
Description Date:

Sheet title:
ELECTRICAL SCHEDULES

E702

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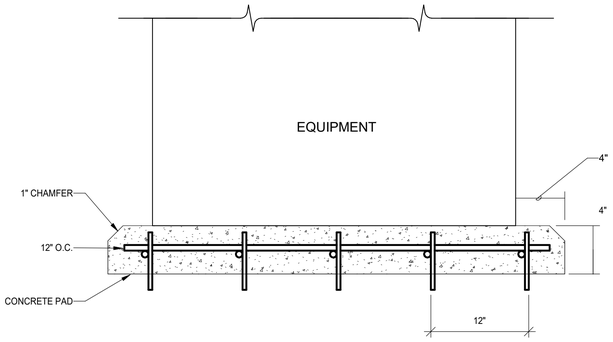


3 E801 HOUSEKEEPING PAD DETAIL

SCALE: NONE

NOTES:

A. WHERE FIELD CONDITIONS PREVENT INSTALLATION OF LIGHT SWITCHES PER DETAILS, VERIFY SWITCH LOCATION WITH ENGINEER.

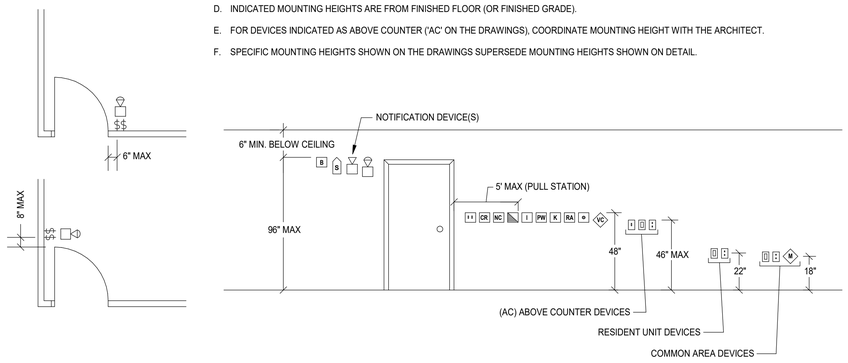
B. COORDINATE LOCATION OF DEVICES RELATIVE TO DOOR JAMB WITH ARCHITECTURAL TRIM DETAILS PRIOR TO ROUGH-IN.

C. COORDINATE AC (ABOVE COUNTER) DEVICE HEIGHT WITH ARCHITECT AND INTERIOR ELEVATIONS.

D. INDICATED MOUNTING HEIGHTS ARE FROM FINISHED FLOOR (OR FINISHED GRADE).

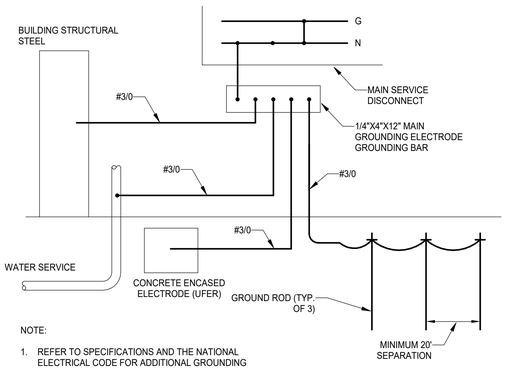
E. FOR DEVICES INDICATED AS ABOVE COUNTER ('AC' ON THE DRAWINGS), COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT.

F. SPECIFIC MOUNTING HEIGHTS SHOWN ON THE DRAWINGS SUPERSEDE MOUNTING HEIGHTS SHOWN ON DETAIL.



1 E801 DEVICE MOUNTING LOCATION DETAIL

SCALE: NONE

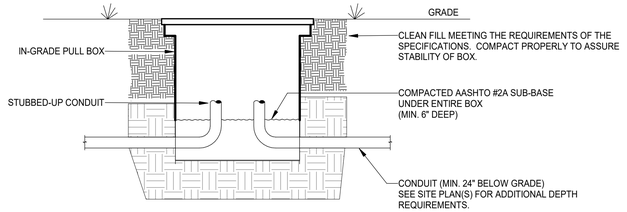


NOTE:

1. REFER TO SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE FOR ADDITIONAL GROUNDING REQUIREMENTS.

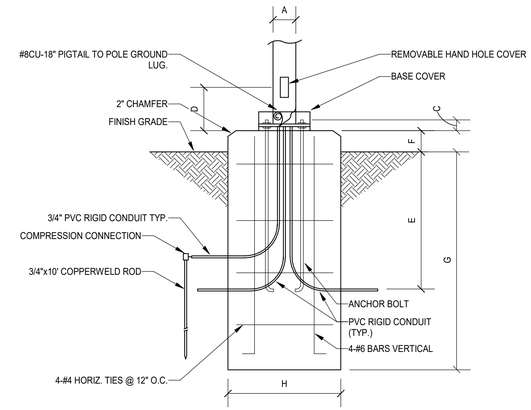
6 E801 GROUNDING ELECTRODE DETAIL

SCALE: NONE

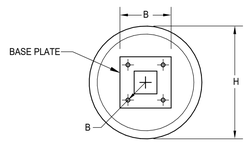


4 E801 IN-GRADE HAND HOLE INSTALLATION DETAIL

SCALE: NONE



ELEVATION

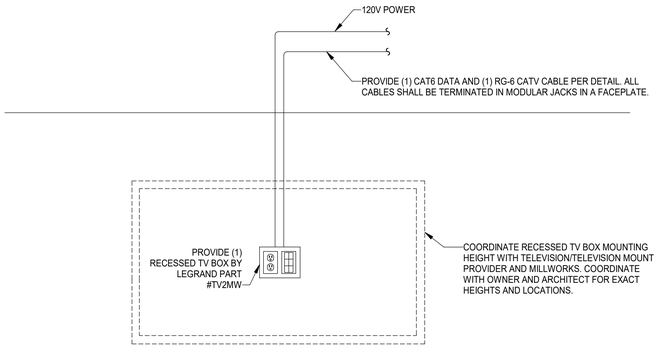


TOP VIEW

POLE KEY	POLE HEIGHT	A	ANCHOR BOLT DATA B	SIZE	C	D	E	F	G	H
P1	15'-0"	ROUND	BY MANUFACTURER			12"	24"	2"	60"	24"
P2	15'-0"	ROUND	BY MANUFACTURER			12"	24"	2"	60"	24"

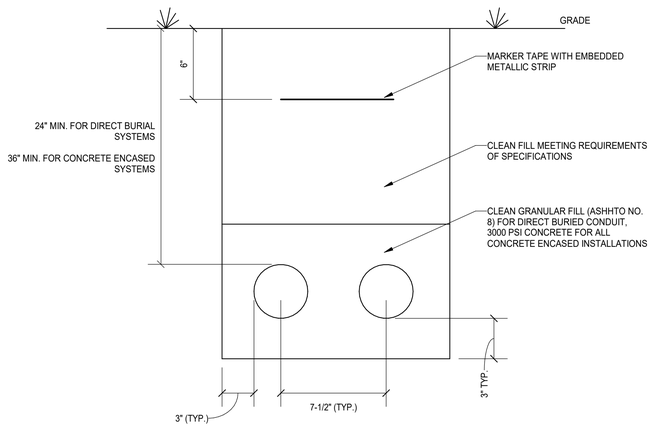
2 E801 POLE BASE DETAIL

SCALE: NONE



7 E801 WALL MOUNTED TV PROVISIONS

SCALE: NONE



NOTES:

A. THIS DETAIL INDICATES SPACING AND INSTALLATION PARAMETERS. THE ACTUAL QUANTIT OF CONDUITS ARE AS INDICATED ON THE ELECTRICAL ONE-LINE DIAGRAM.

B. REFER TO E601 AND SITE PLANS FOR SYSTEMS REQUIRING CONCRETE ENCASED FEEDER.

C. REFER TO SITE PLANS FOR ADDITIONAL BURIAL DEPTH INFORMATION.

5 E801 UNDERGROUND CONDUIT DETAIL

SCALE: NONE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED MARK D. LAYFIELD 03.27.26 37135 PROFESSIONAL ENGINEER

Project Number:	2025.082
Issue:	100% CD
Date:	MARCH 27, 2026
Drawn By:	R.H.
Checked By:	R.H.

Revisions:

Description	Date:

Sheet title:

ELECTRICAL DETAILS

E801

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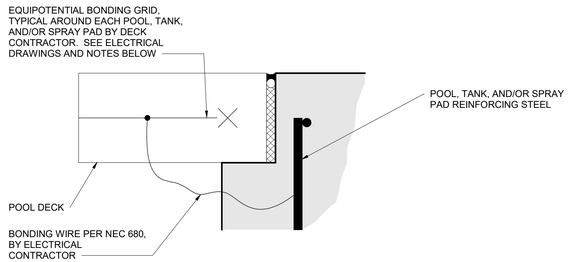
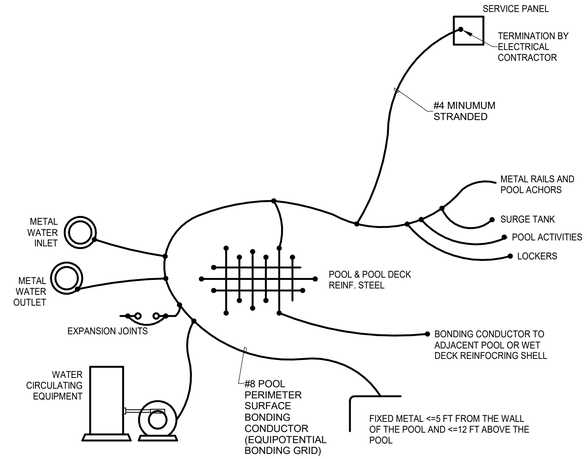


NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   - 3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   - 3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   - 3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

3 E802 POOL EQUIPOTENTIAL BONDING GRID DETAIL

SCALE: NONE

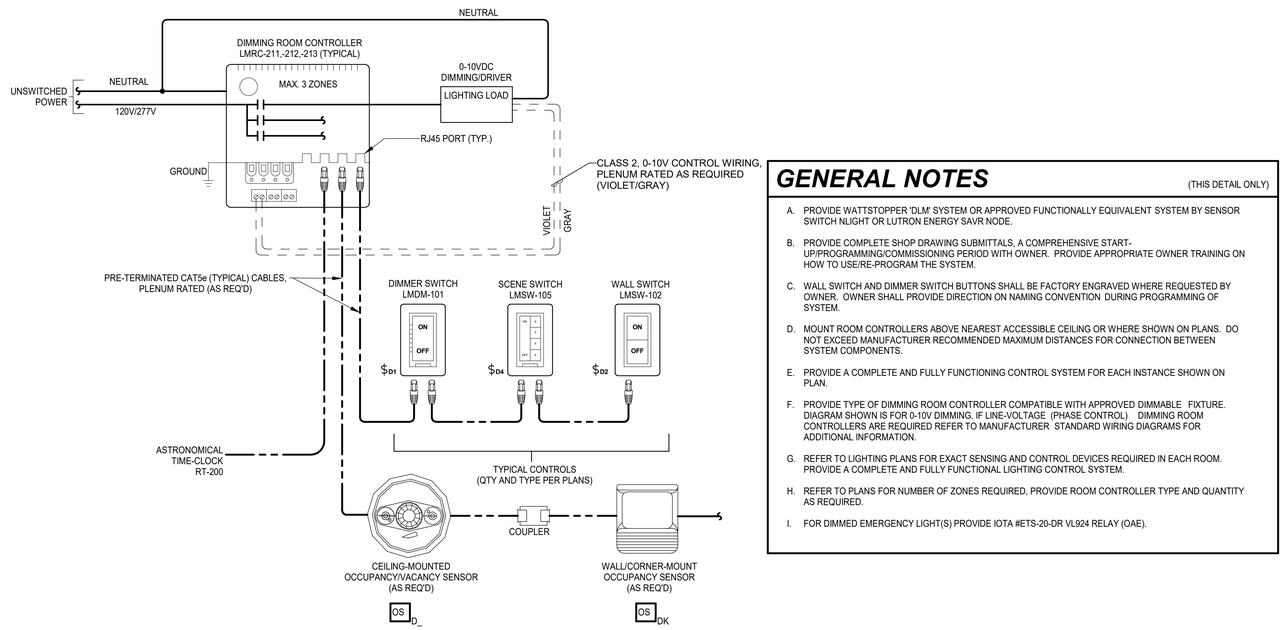


NOTES:

1. NOT ALL ITEMS ARE SHOWN. SEE FLOOR PLANS.
2. INSTALLATION SHALL CONFORM TO NEC ARTICLE 680.
3. ALL GROUNDING CONNECTIONS SHALL BE CADWELD OR CLAMP AS STATED PER THE NEC.
4. ALL GROUND WIRE SHALL BE #8 SOLID COPPER UNLESS OTHERWISE NOTED.
5. GROUND ALL METAL DEVICES WITHIN 5' OF THE EDGE OF THE POOLS AND METAL ITEMS LOCATED WITHIN 12' VERTICALLY AND 5' HORIZONTALLY OF THE SLIDE TOWERS.

1 E802 POOL EQUIPMENT BONDING DETAIL

SCALE: NONE



GENERAL NOTES

(THIS DETAIL ONLY)

A. PROVIDE WATTSTOPPER 'DLM' SYSTEM OR APPROVED FUNCTIONALLY EQUIVALENT SYSTEM BY SENSOR SWITCH NLIGHT OR LUTRON ENERGY SAVR NODE.

B. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS, A COMPREHENSIVE START-UP/PROGRAMMING/COMMISSIONING PERIOD WITH OWNER. PROVIDE APPROPRIATE OWNER TRAINING ON HOW TO USE/RE-PROGRAM THE SYSTEM.

C. WALL SWITCH AND DIMMER SWITCH BUTTONS SHALL BE FACTORY ENGRAVED WHERE REQUESTED BY OWNER. OWNER SHALL PROVIDE DIRECTION ON NAMING CONVENTION DURING PROGRAMMING OF SYSTEM.

D. MOUNT ROOM CONTROLLERS ABOVE NEAREST ACCESSIBLE CEILING OR WHERE SHOWN ON PLANS. DO NOT EXCEED MANUFACTURER RECOMMENDED MAXIMUM DISTANCES FOR CONNECTION BETWEEN SYSTEM COMPONENTS.

E. PROVIDE A COMPLETE AND FULLY FUNCTIONING CONTROL SYSTEM FOR EACH INSTANCE SHOWN ON PLAN.

F. PROVIDE TYPE OF DIMMING ROOM CONTROLLER COMPATIBLE WITH APPROVED DIMMABLE FIXTURE. DIAGRAM SHOWN IS FOR 0-10V DIMMING. IF LINE-VOLTAGE (PHASE CONTROL) DIMMING ROOM CONTROLLERS ARE REQUIRED REFER TO MANUFACTURER STANDARD WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

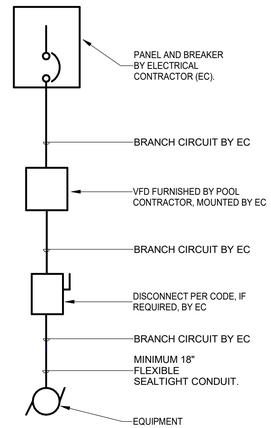
G. REFER TO LIGHTING PLANS FOR EXACT SENSING AND CONTROL DEVICES REQUIRED IN EACH ROOM. PROVIDE A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM.

H. REFER TO PLANS FOR NUMBER OF ZONES REQUIRED, PROVIDE ROOM CONTROLLER TYPE AND QUANTITY AS REQUIRED.

I. FOR DIMMED EMERGENCY LIGHT(S) PROVIDE IOTA #ETS-20-DR VL924 RELAY (OAE).

4 E802 DLM STAND-ALONE DIGITAL LIGHTING CONTROL - DIMMING

SCALE: NONE



GENERAL **NOTES:**

1. THIS IS A STANDARD DRAWING TO AID CONTRACTOR. CONTRACTOR MUST VERIFY EXACT REQUIREMENTS WITH POOL SYSTEM SUPPLIER

2 E802 TYPICAL VFD STARTER WIRING

SCALE: NONE

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Superior South Pool

3300 Huron Peak Avenue
Superior, CO 80027

COLORADO LICENSED
MARK D. LAYFIELD
03.27.26
37135
PROFESSIONAL ENGINEER

Project Number:	2025.082
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Drawn By:	R.H.
Checked By:	R.H.

Revisions:

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Sheet title:

ELECTRICAL DETAILS

E802

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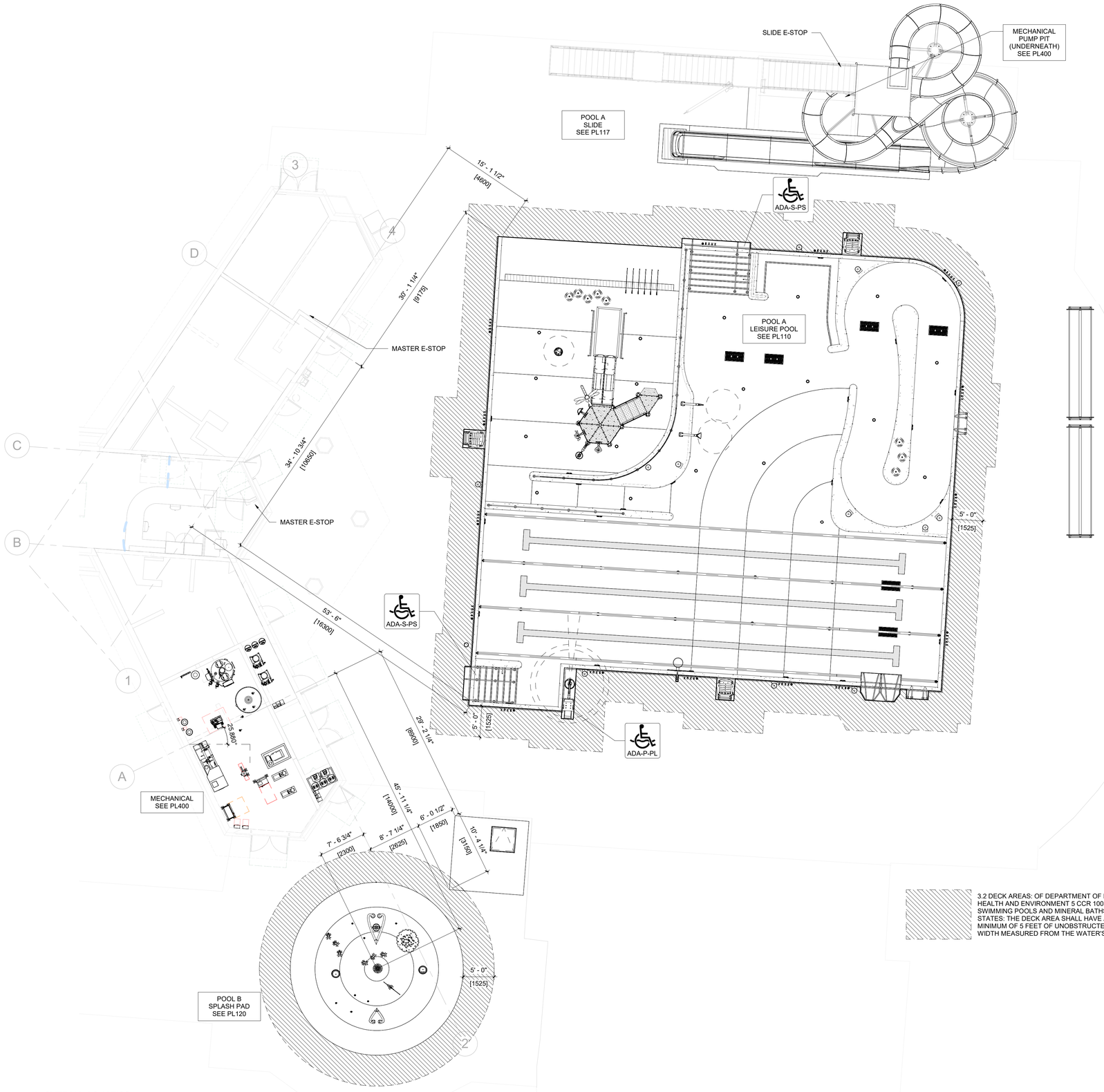

1 PL100 OVERALL AQUATICS PLAN VIEW
1/8" = 1'-0"

GENERAL NOTES:
1. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
2. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
4. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
5. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
6. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
7. REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
8. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
9. REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.
10. REFER TO SERIES PL600 FOR PIPING PENETRATIONS.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
SUPERIOR, COLORADO, BOULDER COUNTY

HEALTH & SAFETY CODE:
DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION 5 CCR 1003-5 SWIMMING POOLS AND MINERAL BATHS
BOULDER COUNTY BUILDING AMENDMENTS RESOLUTION UPDATED JANUARY 23, 2025

MODEL CODES:
2023 MODEL AQUATIC HEALTH CODE - FOR BATHER CAPACITY ONLY

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

BATHER CAPACITY

BATHER CAPACITY IS CALCULATED IN ACCORDANCE WITH SECTION 4.1.2.3.5.3 OF THE MAHC, 4TH EDITION CODE AS FOLLOWS:

1. POOL A:
   a. 4618 (SF) AGITATED WATER / 15 (SF/BATHER) = 307 BATHERS.
2. POOL B:
   a. 616 (SF) INTERACTIVE PLAY AREA / 10 (SF/BATHER) = 61 BATHERS.
3. TOTAL 368 BATHERS

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
PL100	OVERALL AQUATIC PLAN
D100	DEMOLITION PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - LEISURE POOL PLAN
PL111	POOL A - LEISURE POOL DIMENSION PLAN
PL112	POOL A - LEISURE POOL SECTIONS
PL113	POOL A - LEISURE POOL DETAILS
PL114	POOL A - LEISURE POOL DETAILS
PL115	POOL A - LEISURE POOL DETAILS
PL116	POOL A - CLIMBING WALL SAFETY ZONE
PL117	POOL A - SLIDE
PL120	POOL B - SPLASH PAD PLANS
PL121	POOL B - SPLASH PAD DETAILS
PL122	POOL B - SPLASH PAD DETAILS
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL201	STRUCTURAL PLAN(S) AND SCHEDULE
PL210	STRUCTURAL GENERAL DETAILS
PL211	STRUCTURAL DETAILS
PL212	STRUCTURAL DETAILS
PL213	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL302	GENERAL PIPING DETAILS
PL310	POOL A - LEISURE POOL PIPING PLAN
PL311	POOL A - LEISURE POOL PIPING PLAN
PL320	POOL B - SPLASH PAD PIPING PLAN
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL ROOM PIPING PLAN
PL402	MECHANICAL EQUIPMENT SCHEDULES
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL406	MECHANICAL DETAILS
PL407	MECHANICAL DETAILS
PL510	POOL A - MECHANICAL SCHEMATIC
PL511	POOL A - ELECTRICAL SCHEMATIC
PL520	POOL B - MECHANICAL SCHEMATIC
PL521	POOL B - ELECTRICAL SCHEMATIC
PL600	PIPE PENETRATIONS
PL601	PIPE PENETRATIONS

3.2 DECK AREAS: OF DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT 5 CCR 1003-5 SWIMMING POOLS AND MINERAL BATHS CODE STATES: THE DECK AREA SHALL HAVE A MINIMUM OF 5 FEET OF UNOBSTRUCTED DECK WIDTH MEASURED FROM THE WATER'S EDGE.

N

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World Leaders in Aquatic Planning, Design and Engineering
100 Park Avenue | Beaver Dam, WI 53916
6200 North Beach Street, Suite 100 | Haltom City, TX 76137 | t 920.887.7375

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BRIAN W. FRIEBERT
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	T.ED
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:
OVERALL AQUATIC PLAN

PL100

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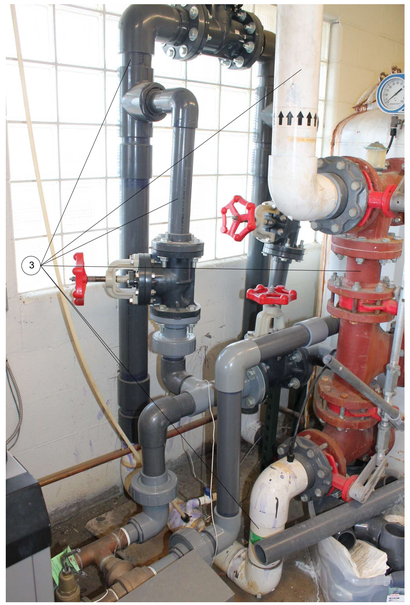
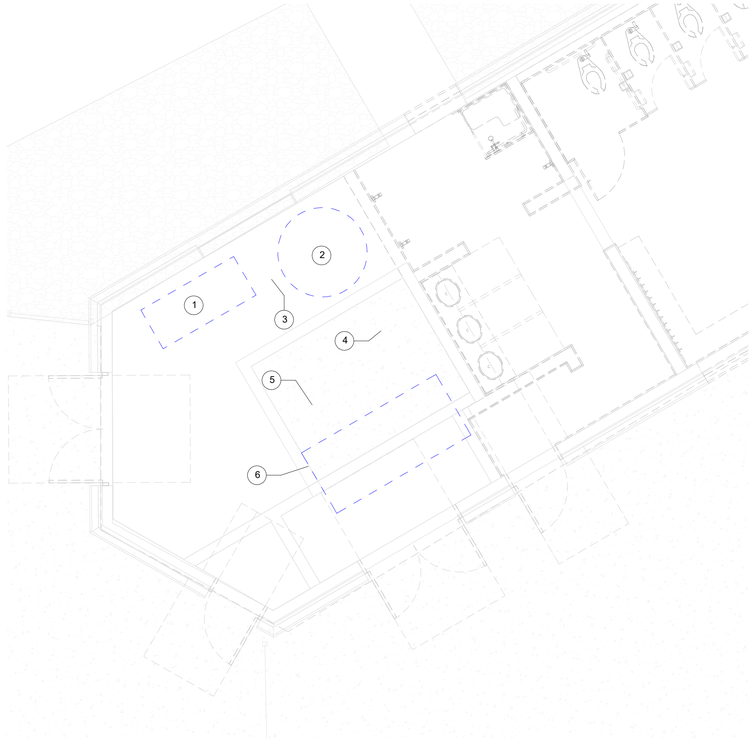


4 | EXISTING FILTER PIPING
D100 | DETAIL VIEW
NOT TO SCALE



1 | DEMOLITION PLAN
D100 | PLAN VIEW
1/4" = 1'-0"



5 | EXISTING FILTER BACKWASH PIPING
D100 | DETAIL VIEW
NOT TO SCALE



3 | EXISTING FILTER
D100 | DETAIL VIEW
NOT TO SCALE



2 | EXISTING HEATER
D100 | DETAIL VIEW
NOT TO SCALE

GENERAL DEMOLITION NOTES:

1. ALL CONDITIONS SHOWN ON THIS DRAWING ARE EXISTING. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. CONTRACTORS ARE RESPONSIBLE TO VISIT THE SITE AND REVIEW ALL DOCUMENTS PRIOR TO SUBMITTING THEIR BID TO COMPLETELY FAMILIARIZE THEMSELVES WITH ALL CONDITIONS.
2. DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC IN NATURE, AND MAY NOT DESCRIBE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. CONTRACTOR SHALL INCLUDE THIS MISCELLANEOUS NECESSARY WORK IN BASE BID.
3. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING POOL EQUIPMENT NOTED. SEE DRAWING NOTES FOR EQUIPMENT THAT SHALL BE REUSED IN PLACE AND EQUIPMENT THAT SHALL BE RELOCATED AND REUSED.
4. CONTRACTOR TO VERIFY ASBESTOS TEST REQUIREMENTS AND CONDUCT ANY REQUIRED TESTING PRIOR TO CONSTRUCTION.
5. UNLESS NOTED OTHERWISE ON THE PLAN, CONTRACTOR SHALL DISPOSE OF ALL REMOVED EQUIPMENT AND MATERIALS IN A LEGAL MANNER OFF SITE. COPIES OF ALL MANIFESTS SHALL BE GIVEN TO THE OWNER SHOWING FINAL DISPOSAL LOCATION OF ALL MATERIALS.
6. CONTRACTOR SHALL MAINTAIN DUST CONTROL INSIDE AND OUTSIDE OF THE BUILDING AT ALL TIMES.
7. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SEWER INLETS, ETC., FROM DEBRIS AND SEDIMENTATION DURING DEMOLITION.
8. CONTRACTOR SHALL LIMIT THE EXTENT OF HIS DISRUPTION TO THE INDICATED WORK AREA, AND TAKE CARE NOT TO DISRUPT THE SURROUNDING AREA.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND TERMINATING EXISTING ELECTRICAL POWER, WATER, AND GAS LINES WITH LOCAL UTILITIES.

DEFINITIONS:

A. ***REMOVE***: REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.
B. ***REMOVE AND SALVAGE***: ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN THE OWNER'S PROPERTY. REMOVE, CLEAN, AND PACK OR CRATE ITEMS TO PROTECT AGAINST DAMAGE. IDENTIFY CONTENTS OF CONTAINERS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA.
C. ***REMOVE AND REINSTALL***: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN THE SAME LOCATIONS OR IN LOCATIONS INDICATED.
D. ***EXISTING TO REMAIN***: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE OWNER OR ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.

DEMO KEYED NOTES:

1. REMOVE AND REINSTALL EXISTING POOL HEATER INCLUDING VENT PIPING AND GAS CONNECTION TO ALLOW FOR DEMOLITION OF EXISTING FILTER AND INSTALLATION OF NEW FILTER.
2. REMOVE EXISTING STEEL EUREKA 60 SAND FILTER, SAND AND ASSOCIATED PIPING.
3. SELECTIVELY REMOVE EXISTING PLUMBING AND VALVES TO FACILITATE NEW FILTER INSTALLATION AND RECONNECTION TO EXISTING HEATER.
4. EXISTING RAINDROP FEATURE PUMP, PAD, AND ASSOCIATED PIPING TO REMAIN.
5. REMOVE FILTRATION PUMP MOTOR FOR REPLACEMENT. FILTRATION PUMP TO BE RELOCATED PER PL400. REMOVE EXISTING PUMP PAD.
6. EXISTING PIPES TO BE REMOVED AS NECESSARY WITHIN MECHANICAL SPACE FOR RECONNECTION TO NEW PIPING. KEEP EXISTING PIPING STUB OUT 6" FROM WALL IF POSSIBLE.

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Sheet title:

DEMOLITION PLAN

D100

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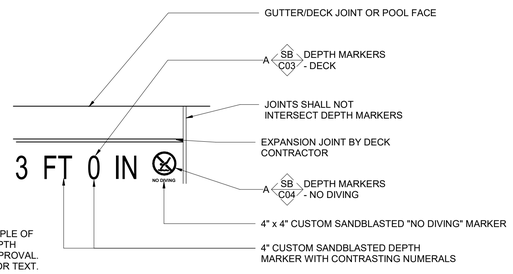
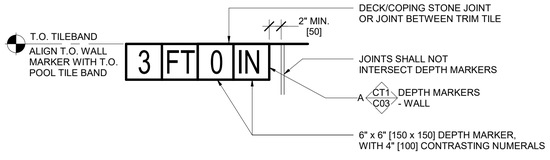


NOTE: SUBMIT SAMPLE OF SAND BLASTED DEPTH MARKINGS FOR APPROVAL. USE ARIAL FONT FOR TEXT.

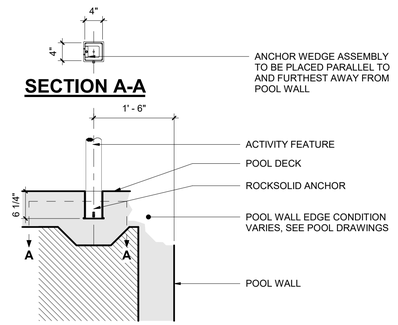
DECK DEPTH MARKER



WALL DEPTH MARKER

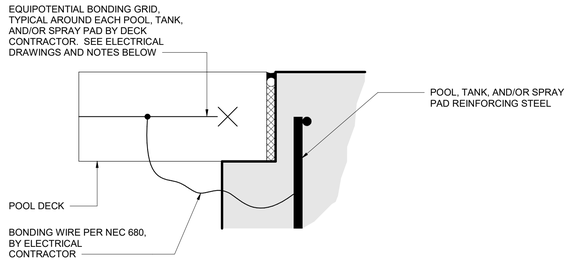
NOTES:
1. ▬ - WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. DECK DEPTH MARKERS MUST BE LOCATED WITHIN 18" OF WATER'S EDGE.
9. PROVIDE CONTRASTING COLOR USING LITHICHROME STONE PAINT WITH MANUFACTURER'S RECOMMENDED SEALANT FOR ENGRAVING DECK DEPTH MARKERS. CLEVELAND LITHICHROME WITH HIGH POLISH OR EQUIVALENT.

6 | PL101 DEPTH MARKER DECK & WALL DETAIL VIEW
1" = 1'-0"



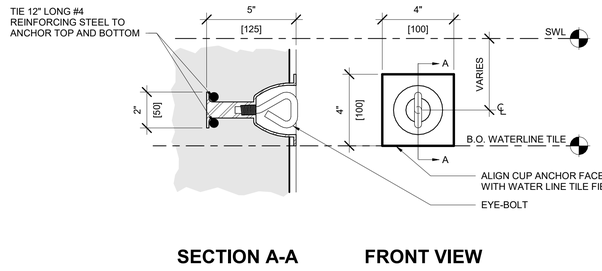
NOTES:
1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

7 | PL101 ANCHOR - ROCKSOLID INSTALL DETAIL VIEW
3/4" = 1'-0"



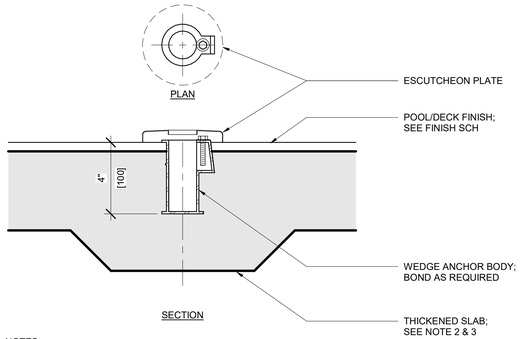
NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

2 | PL101 POOL EQUIPOTENTIAL BONDING GRID DETAIL VIEW
3" = 1'-0"



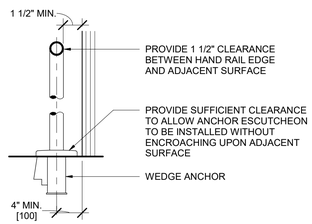
SECTION A-A **FRONT VIEW**

3 | PL101 ANCHOR - ROPE CUP DETAIL VIEW
3" = 1'-0"



NOTES:
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MIN COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MIN.

4 | PL101 ANCHOR - WEDGE DETAIL VIEW
3" = 1'-0"



NOTES:
1. CONTRACTOR TO PURCHASE AND INSTALL RAIL GOODS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS OF PARTIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY HANDRAIL DIMENSIONS PRIOR TO FABRICATION.

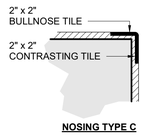
5 | PL101 RAILING OFFSET TO ADJACENT SURFACE DETAIL VIEW
3/4" = 1'-0"

EQUIPMENT IDENTIFIER KEY

AC	-	AIR COMPRESSOR	FP	-	FLOW METER POWER SUPPLY
AF	-	AUTOFILL	H	-	HEATER
AOP	-	ADVANCED OXIDATION PROCESS	HX	-	HEAT EXCHANGER
AP	-	pH CONTROL PUMP	P	-	PUMP
AS	-	pH CONTROL STORAGE	PV	-	PNEUMATIC MAIN DRAIN VALVE
BP	-	BOOSTER PUMP	S	-	STRAINER
C	-	CHEMICAL CONTROLLER	SC	-	CONTAINMENT PALLETE
CP	-	CHLORINE FEED PUMP	SV	-	SURGE TANK FAN
CS	-	CHLORINE STORAGE	UV	-	ULTRA-VIOLET DISINFECTION
EV	-	ELECTRONIC MAIN DRAIN VALVE	V	-	VARIABLE FREQUENCY DRIVE
F	-	FILTER	WC	-	WATER CHILLER
FM	-	FLOW METER			

ABBREVIATIONS

AHJ	- AUTHORITY HAVING JURISDICTION	P&ID	- PIPING & INSTRUMENTATION DIAGRAM
BO	- BOTTOM OF	PL	- POOL LIFT
CJ	- CONTROL JOINT	PS	- POOL STAIRS
DIA	- DIAMETER	SCH	- SCHEDULE
EJ	- EXPANSION JOINT	SE	- SLOPED ENTRY
EW	- EACH WAY	SS	- STAINLESS STEEL
FFE	- FINISH FLOOR ELEVATION	SWL	- STATIC WATER LEVEL
ID	- INSIDE DIAMETER	TO	- TOP OF
MAX	- MAXIMUM	TS	- TRANSFER SYSTEM
MIN	- MINIMUM	TUBC	- TRUE UNION CHECK VALVE
NC	- NORMALLY CLOSED	TUBV	- TRUE UNION BALL VALVE
NO	- NORMALLY OPEN	TW	- TRANSFER WALL
NPS	- NOMINAL PIPE SIZE	TYP	- TYPICAL
OC	- ON CENTER	WD	- WATER DEPTH
OD	- OUTSIDE DIAMETER		
OWE	- OPERATING WATER ELEVATION		

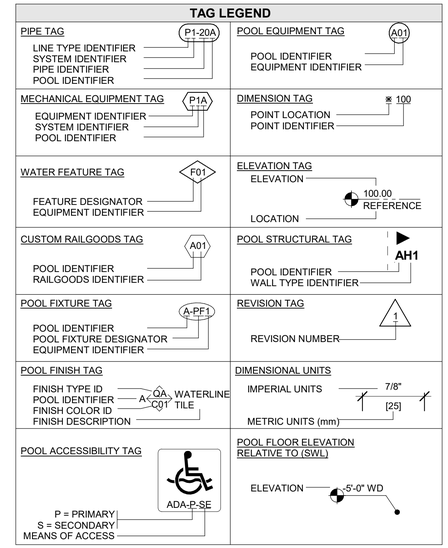


NOSING TYPE C

NOTES:
1. NOSING TYPE C: 2" MIN. CONTRASTING TILE BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.

1 | PL101 POOL FINISH SCHEDULE DETAIL VIEW
NONE

TAG LEGEND



FINISH NOTES:
1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE. CONTRASTING COLORS SHALL HAVE A MUNSELL VALUE OF 0 TO 4.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 AND ANSI A326.3 STANDARD USING THE ANSI A326.3 DYNAMIC COEFFICIENT OF FRICTION (DCOF) TESTING METHOD:
3A. ON WET LEVEL SURFACES (<=2%), PROVIDE A WET DCOF =/> 0.42.
3B. ON WET SLOPED SURFACES (>2%), PROVIDE A WET DCOF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.
5. CONTRACTOR TO PROVIDE AN ALTERNATE BID TO FURNISH AND INSTALL LIFEFLOOR ON SPLASH PAD SURFACE.

LEGEND - FINISHES & COLOR CODES - POOL A

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
BENCH AND STAIR NOSING - CONSTRASTING	SR2	2"x2" SLIP RESISTANT TILE	C07	CONTRASTING COLOR	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON CONCRETE	
DEPTH MARKERS - NO DIVING	SB	SANDBLASTED	C04	BLACK AND RED ON CONCRETE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
HAND RUBBED CONCRETE	FC	HAND RUBBED CONCRETE	C01	AS SELECTED BY ARCHITECT	
HORIZONTAL SURFACE (DRY)	SR1	1"x1" SLIP RESISTANT TILE	C01	AS SELECTED BY ARCHITECT	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	
HORIZONTAL SURFACE (WET)	SR1	1"x1" SLIP RESISTANT TILE	C06	LIGHT COLOR	
INTERMEDIATE STEGMEIER EDGE	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	INTERMEDIATE STEGMEIER EDGE
LANE MARKERS - FLOOR	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING COLOR	
LANE MARKERS - WALL	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING COLOR	
ROLLBACK	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	
STEGMEIER EDGE	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	
TILE - TRIM TILE	SR1	1"x1" SLIP RESISTANT TILE	C01	AS SELECTED BY ARCHITECT	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - BULLNOSE	S862	1"x1" S-862 BULLNOSE TRIM TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (DRY)	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY OWNER	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	

LEGEND - FINISHES & COLOR CODES - POOL B

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
SPLASH PAD SURFACE	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	
SPLASH PAD SURFACE	LF	LIFE FLOOR OR AQUATILE	C01	AS SELECTED BY ARCHITECT	ALTERNATE

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT

QTY	PRODUCT NAME	MANUFACTURER	NOTES
1	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS ULTRAMAX GEMINI	DOLPHIN WAVE 140 AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, FINE FILTER KIT WITH TOP ACCESS. SIX (6) ACTIVE BRUSHES, SUCTION RATE: 9,000 GPH, 140 FT CORD, 3 YEAR WARRANTY
1	DEFIBRILLATOR	WATER SAFETY PRODUCTS	ZOLL AED PLUS DEFIBRILLATOR COMPLETE AED PACKAGE WITH CPR-D PADZ ELECTRODES, CPR HELP TECHNOLOGY WITH REAL-TIME DEPTH AND RATE CPR FEEDBACK, LITHIUM 123 BATTERIES WITH 5 YEAR SHELF LIFE, CARRYING CASE AND AED PRESCRIPTION
3	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	LIFE HOOK & RESCUE POLE	RECREONICS	FIBERGLASS POLE, WITH DOUBLE LIFE HOOK. PROVIDE 16-FOOT NON-TELESCOPING SECTIONS WITH & RUBBER END CAP. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	MANUAL VACUUM CLEANING SYSTEM	HAMMERHEAD	RESORT-21; (RESORT-30): 21"(30") VACUUM HEAD WITH (2) LARGE CAPACITY BAGS, 60 FOOT CORD, STAINLESS STEEL POLE SWIVEL MOUNT AND WELDED ALUMINUM CADDY W/ 20" WHEELS. PROVIDE WITH 12V DEEP CYCLE MARINE BATTERY, BATTERY CHARGER, AND 1 1/8" STANDARD POOL POLE.
4	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP , CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE.
1	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
4	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT
1	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT

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COLORADO LICENSED
BRIAN W. FRENCH
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	T.ED
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:

GENERAL DETAILS AND SCHEDULES

PL101

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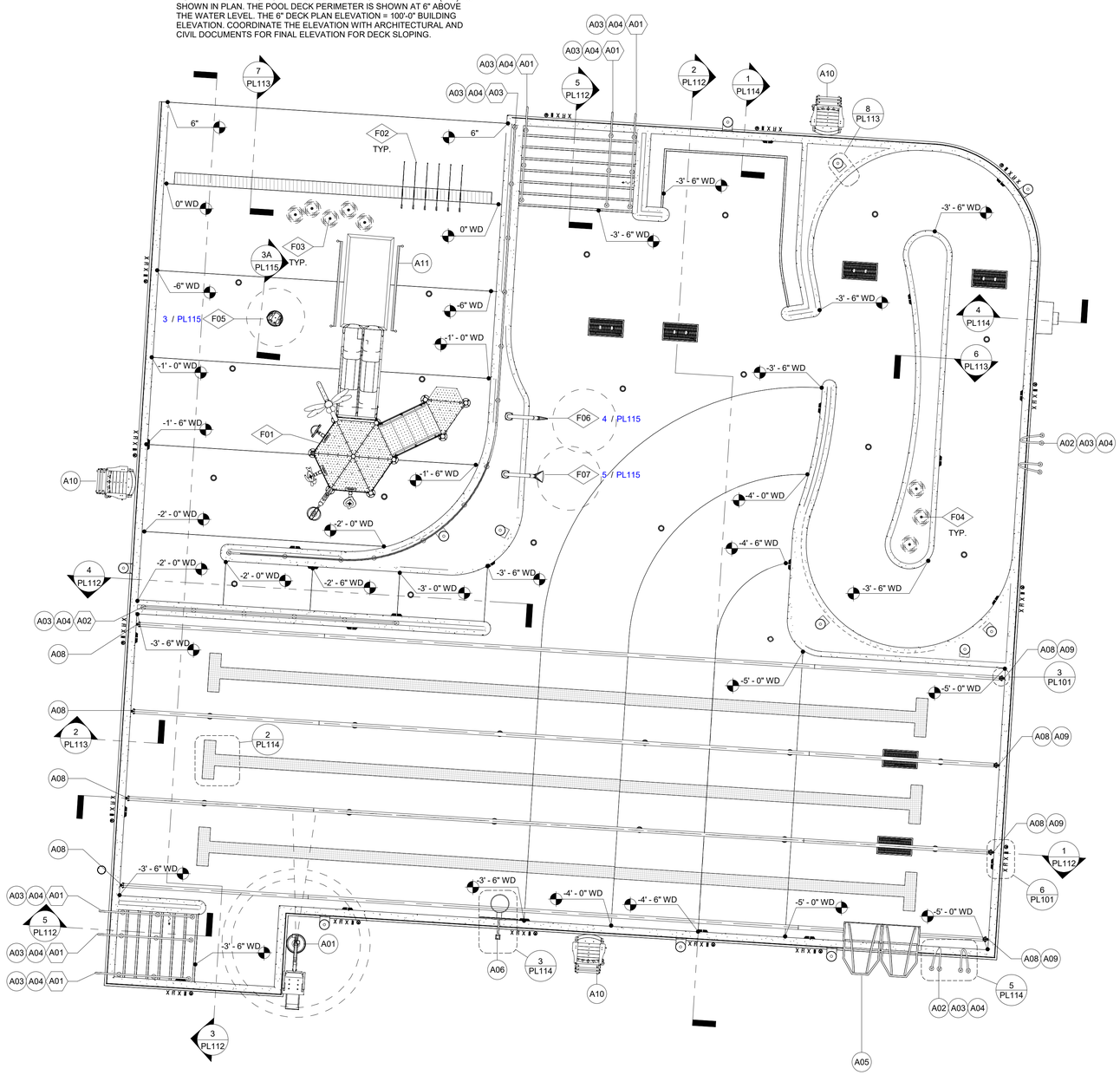
3/26/2026 11:56:26 Autodesk Docs://Superior South Pool Renovation/25204.02 Superior South Pool_Aquatics_R26.rvt

NOTE: THE ELEVATION OF WATER LEVEL IS AT 0" WATER DEPTH (WD) AS SHOWN IN PLAN. THE POOL DECK PERIMETER IS SHOWN AT 6" ABOVE THE WATER LEVEL. THE 6" DECK PLAN ELEVATION = 100'-0" BUILDING ELEVATION. COORDINATE THE ELEVATION WITH ARCHITECTURAL AND CIVIL DOCUMENTS FOR FINAL ELEVATION FOR DECK SLOPING.



1 POOL A - LEISURE POOL
PL110 PLAN VIEW
3/16" = 1'-0"

N

POOL A-LEISURE POOL DATA

DESCRIPTION	QTY	UNITS			
POOL PERIMETER	317	FEET			
WATER SURFACE AREA	4,618	SQUARE FEET			
POOL WATER TEMPERATURE	84	°F			
POOL VOLUME	111,529	GALLONS			
TOTAL VOLUME OF WATER	111,529	GALLONS			
CIRCULATION RATE	803	GPM			
TURNOVER/VOLUME/FLOW	60 MIN.	7,583	GAL.	126	GPM
TURNOVER/VOLUME/FLOW	120 MIN.	58,552	GAL.	488	GPM
TURNOVER/VOLUME/FLOW	240 MIN.	45,394	GAL.	189	GPM
NSF 50 FILTRATION RATE	1.15	GPM/FT²			
FILTER DRAIN RATE	300	GPM			
INTENDED USE	RECREATION				

SCHEDULE - CUSTOM RAILGOODS - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	HAND RAIL	6	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	02	BARRIER RAILING	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50 OD X .120 WALL THICKNESS, 500 GRIT FINISH MIN BARRIER RAILING WITH HTTP KNOTLESS NETTING. PROVIDE 1 3/4" INCH SQUARE MESH. COLOR BY OWNER/ARCHITECT
A	03	BARRIER RAILING	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50 OD X .120 WALL THICKNESS, 500 GRIT FINISH MIN BARRIER RAILING WITH HTTP KNOTLESS NETTING. PROVIDE 1 3/4" INCH SQUARE MESH. COLOR BY OWNER/ARCHITECT

SCHEDULE - BASIS OF DESIGN - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	POOL LIFT	1	SR SMITH, AQUA CREEK, OR EQUAL	STANDARD ANCHORED, ROTATIONAL POOL LIFT, WITH 400 LB LIFTING CAPACITY. MUST MEET ALL APPLICABLE ADA REQUIREMENTS. WHILE MAINTAINING REQUIRED DECK CLEARANCE. PACKAGE TO INCLUDE ARMRESTS, ANCHOR, LIFT COVER, BATTERY CHARGER, AND CADDY
A	02	GRAB RAILS (PAIRS)	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	PRETZEL BEND STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	03	ESCUTCHEON PLATE	45	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
A	04	WEDGE ANCHOR	45	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
A	05	CLIMBING WALL	1	AQUACLIMB - EXISTING	2X WIDE BY 3X HIGH ALT GLACIER AQUACLIMB AQUATIC CLIMBING WALL. CONTRACTOR TO REMOVE AND PLUG TOP ROW OF HAND HOLDS FOR A 3 HIGH ALT CLIMBING WALL.
A	06	BASKETBALL HOOP	1	SR SMITH	STAINLESS STEEL BASKETBALL HOOP WITH ROCKSOLID ANCHOR
A	07	IN-WALL STEPS	7	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	17-1/2" x 6", INJECTION MOLDED PLASTIC, PEBBLE TEXTURE, 1/4" WALL THICKNESS
A	08	CUP ANCHOR	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	4" SQUARE 304L SS ANCHOR AND 304L SS EYE BOLT
A	09	LANE DIVIDERS	4	COMPETITOR SWIM PRODUCTS	4" WAVE QUELLING RACING LANE LINE, COLORS BY OWNER / ARCHITECT
A	10	LIFEGUARD CHAIR	3	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT 40" SEAT HEIGHT (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)
A	11	SAFETY BARRIERS	1	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	4 SAFETY BARRIER STANCHIONS W\ NETTING
A	12	THERMAL POOL COVER AND MANUAL REEL	1	SPECTRUM AQUATICS	THERMO-LINED FLOATING POOL COVER - OUTDOOR, PROVIDE CUSTOM FREEFORM COVER COLOR BY ARCHITECT/OWNER. MANUAL REEL TO BE CUSTOM FABRICATED DOUBLE WINDER DECK REEL WITH A MINIMUM CAPACITY OF 5000 SQUARE FEET, 19-0" LENGTH, 3'-9" WIDTH, 3'-2" HEIGHT, 304 SS CONSTRUCTION, 600 GRIT MIN FINISH.
A	13	SAFETY POOL COVER AND MANUAL REEL	1	SPECTRUM AQUATICS	SAFETY FLOATING POOL COVER - OUTDOOR, PROVIDE CUSTOM FREEFORM COVER COLOR BY ARCHITECT/OWNER. MANUAL REEL TO BE CUSTOM FABRICATED DOUBLE WINDER DECK REEL WITH A MINIMUM CAPACITY OF 5000 SQUARE FEET, 19-0" LENGTH, 3'-9" WIDTH, 3'-2" HEIGHT, 304 SS CO

SCHEDULE - WATER FEATURE - POOL A

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
A	F01	PLAY STRUCTURE	1	WATERPLAY	WATERPLAY CUSTOM DUAL SLIDE PLAY STRUCTURE WITH SPRAY FEATURES	46	46
A	F02	DECK SPRAY JET	6	CUSTOM	FIELD FABRICATED DECK SPRAY	15	90
A	F03	WATER GEYSER	5	CUSTOM	FIELD FABRICATED WATER GEYSER	17	85
A	F04	WATER GEYSER	3	CUSTOM	FIELD FABRICATED WATER GEYSER	15	45
A	F05	SPRAY FEATURE	1	WATERPLAY	0011-0845 - FS FLUTTERBY - SMALL PLAYPHASE BASE	1	1
A	F06	SPRAY FEATURE	1	WATERPLAY	0010-3652 - FS RESTORATIVE SPRAY 2 - SMALL PLAYPHASE BASE	26	26
A	F07	SPRAY FEATURE	1	WATERPLAY	0010-3651 - FS RESTORATIVE SPRAY 1 - SMALL PLAYPHASE BASE	30	30

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COLORADO LICENSED
BRIAN W. FRIEBERT
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number: 25204.02
Issue: 100% CD SET
Date: 03/26/2026
Drawn By: T.ED
Checked By: JRB

Revisions:
Description Date:

Sheet title:
POOL A - LEISURE POOL PLAN

PL110

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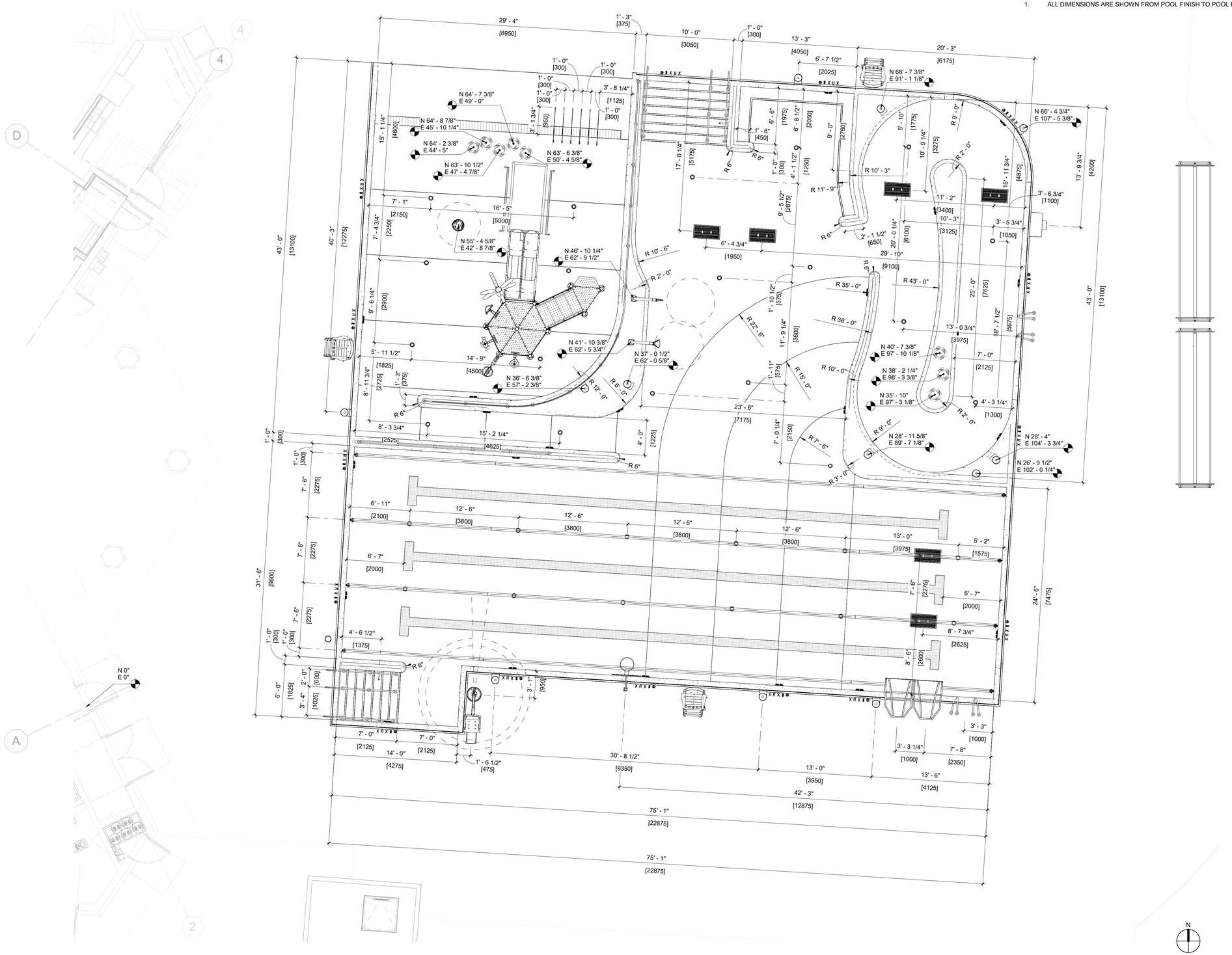
DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)



1 | POOL A - LEISURE POOL DIMENSION PLAN VIEW
PL111 3/16" = 1'-0"

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COLORADO LICENSED
BRIAN W. FREBER
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

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POOL A - LEISURE POOL DIMENSION PLAN

PL111

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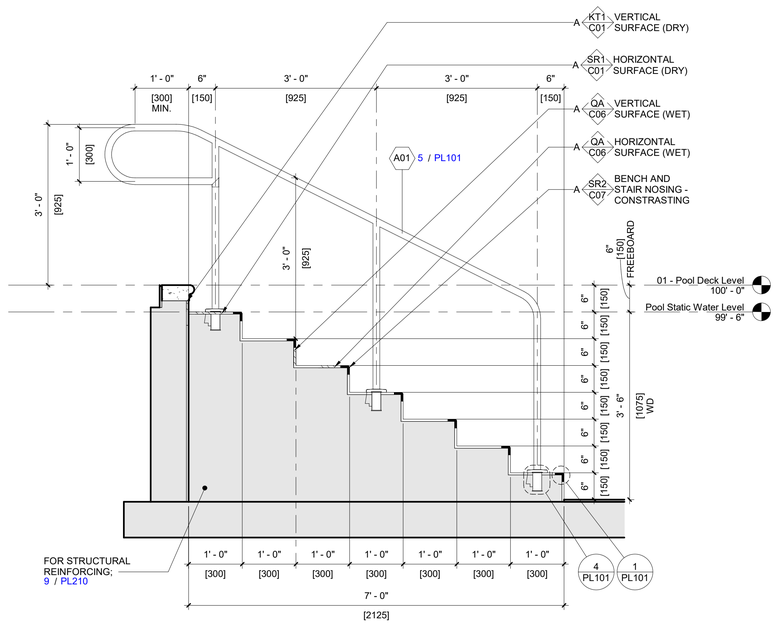
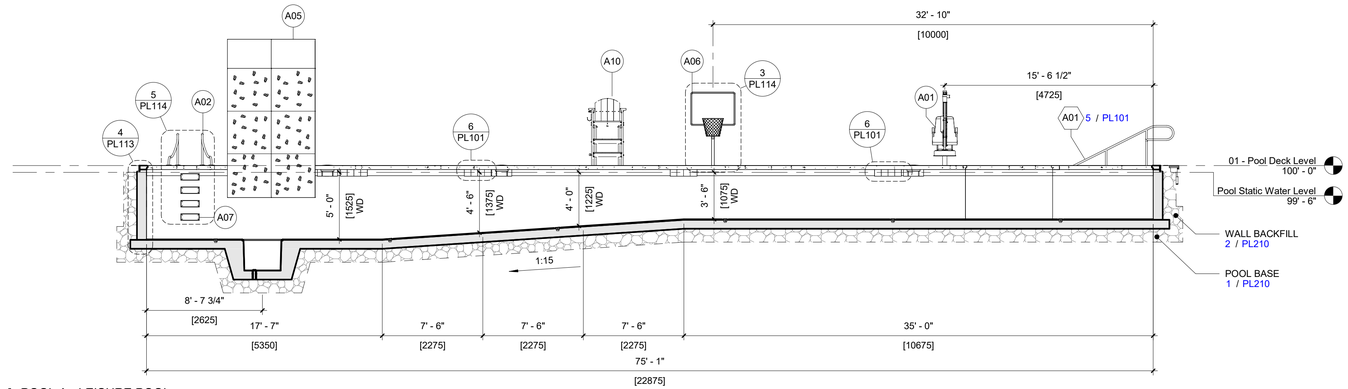


5 PL112 POOL A - LEISURE POOL STAIRS SECTION VIEW
3/4" = 1'-0"



1 PL112 POOL A - LEISURE POOL SECTION VIEW
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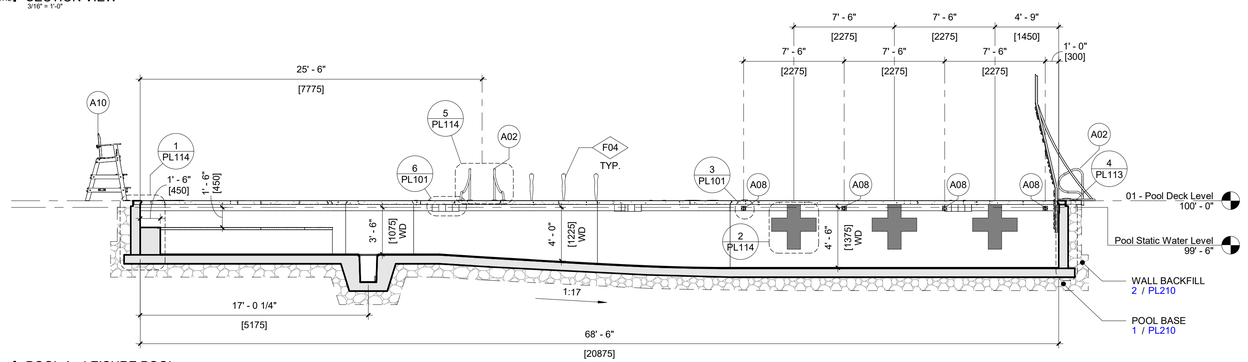
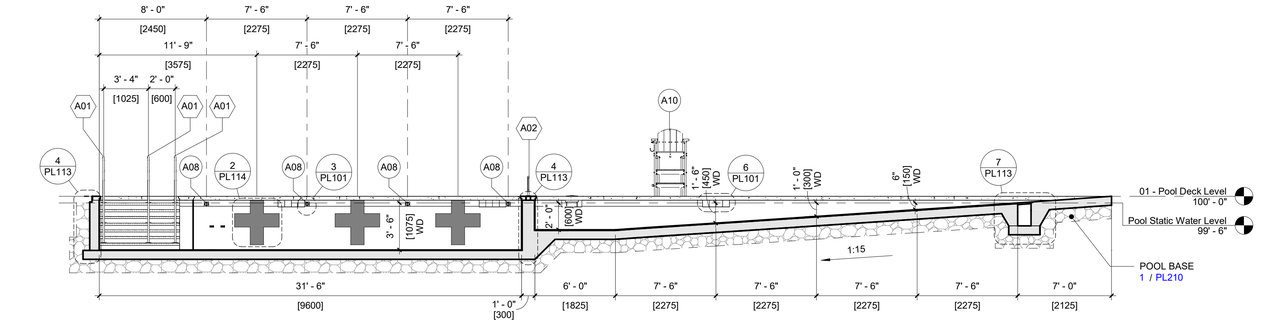
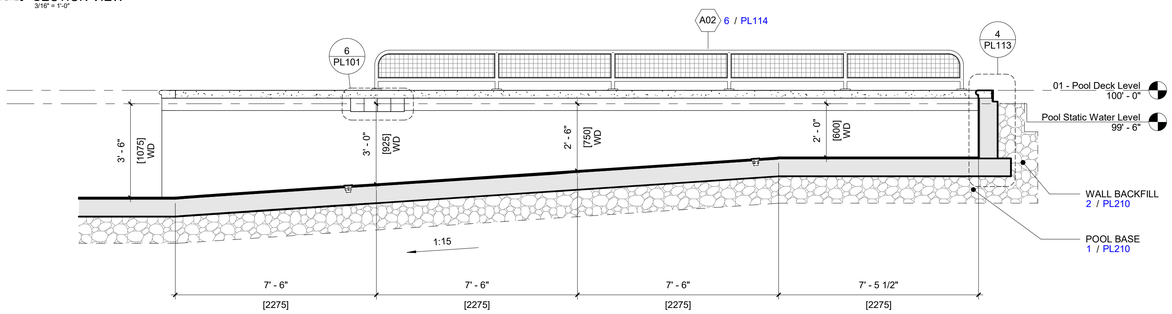


2 PL112 POOL A - LEISURE POOL SECTION VIEW
3/16" = 1'-0"



3 PL112 POOL A - LEISURE POOL SECTION VIEW
3/16" = 1'-0"



4 PL112 POOL A - LEISURE POOL SECTION VIEW
3/8" = 1'-0"

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COLORADO LICENSED BRIAN W. FRIBERG PROFESSIONAL ENGINEER P.E.0042920 03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	T.ED
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:

POOL A - LEISURE POOL SECTIONS

PL112

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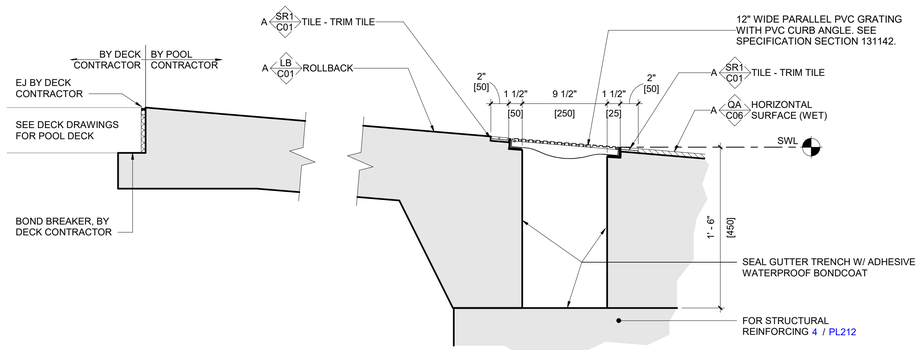
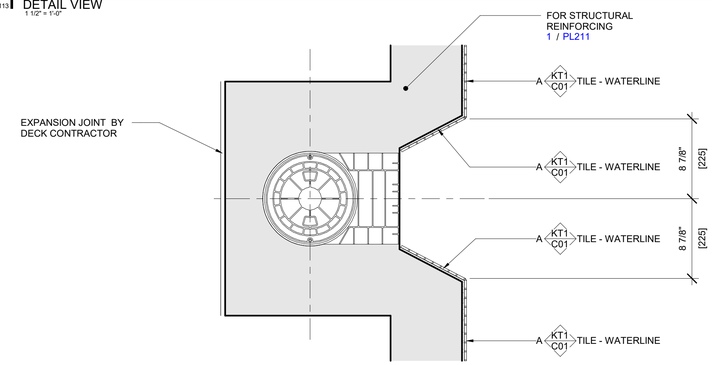
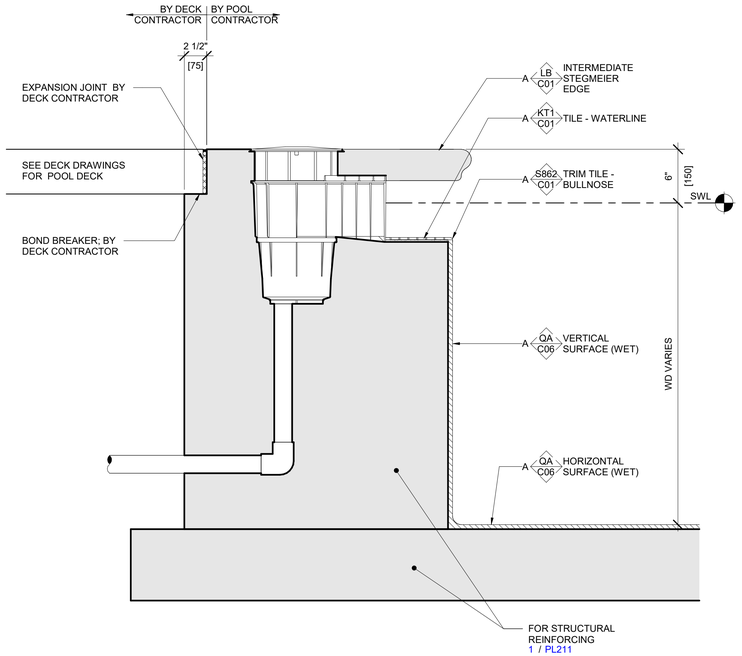
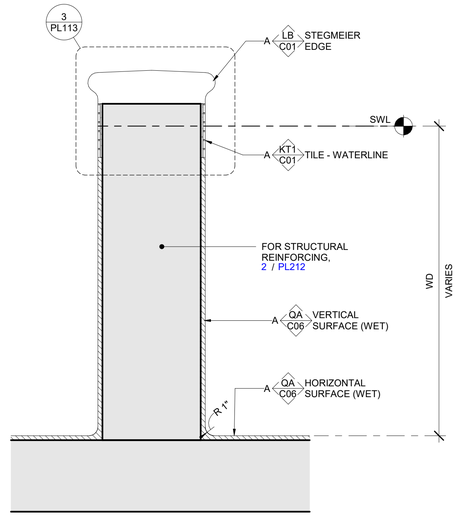


7 | PL113 POOL WALL - ROLLBACK DETAIL VIEW
1 1/2" = 1'-0"

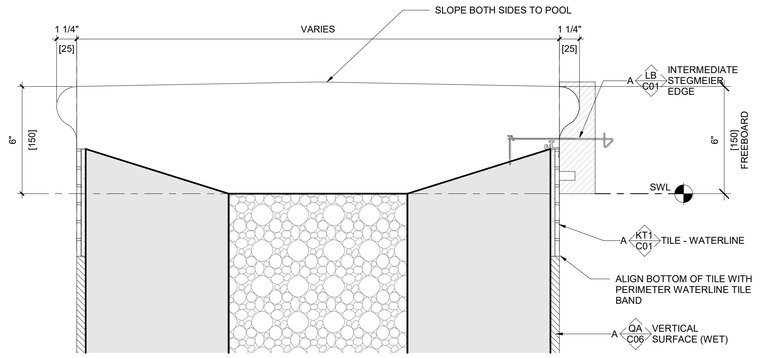


8 | PL113 POOL SKIMMER DETAIL VIEW
1 1/2" = 1'-0"

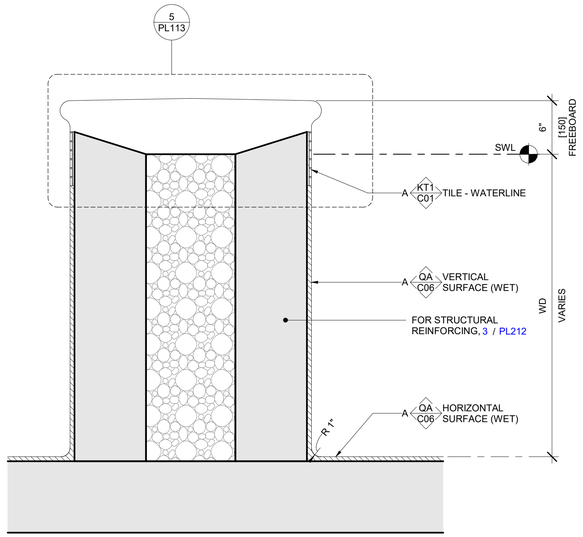




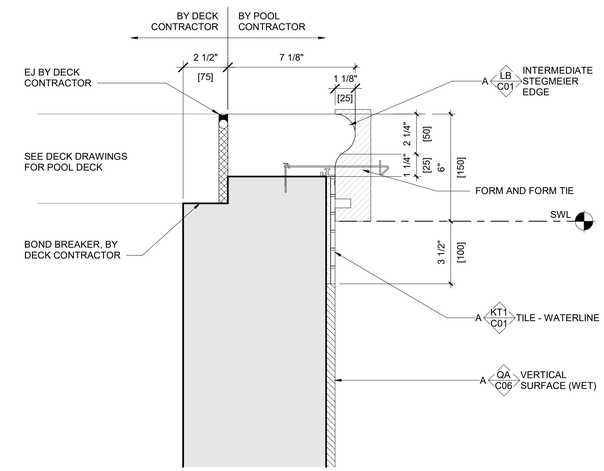
4 | PL113 POOL WALL - FORMED EDGE DETAIL VIEW
1 1/2" = 1'-0"



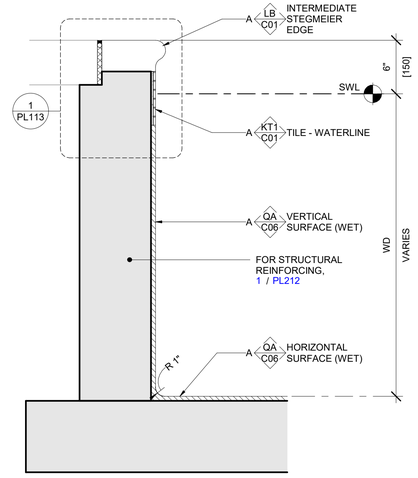
5 | PL113 ISLAND WALL FINISH - FORMED EDGE DETAIL VIEW
3" = 1'-0"



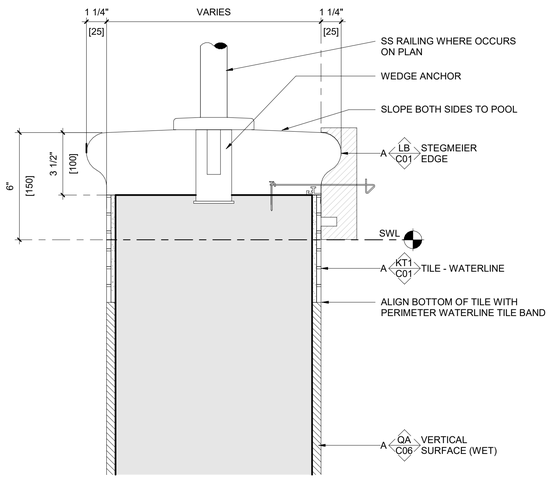
6 | PL113 ISLAND WALL - FORMED EDGE DETAIL VIEW
1 1/2" = 1'-0"



1 | PL113 POOL WALL - FORMED EDGE - FINISH DETAIL VIEW
3" = 1'-0"



2 | PL113 POOL WALL - FORMED EDGE DETAIL VIEW
1 1/2" = 1'-0"



3 | PL113 POOL WALL - FORMED EDGE DETAIL VIEW
3" = 1'-0"

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BRIAN W. FREBER
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

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POOL A - LEISURE POOL DETAILS

PL113

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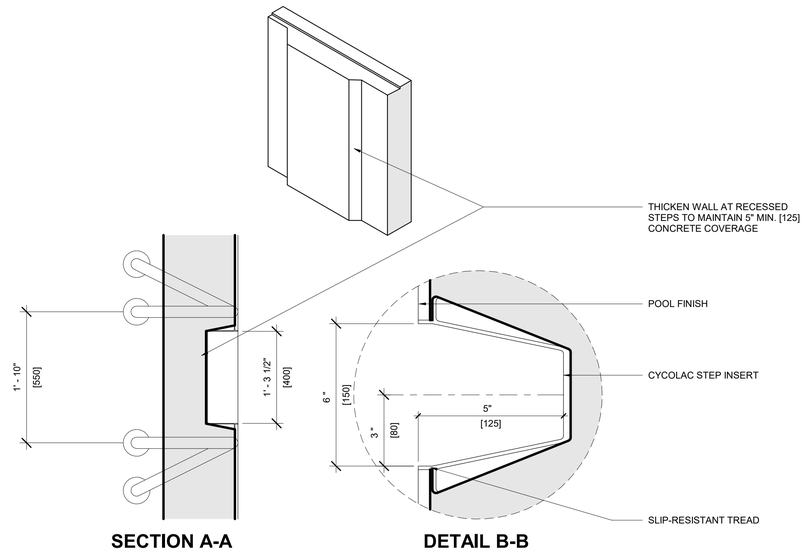
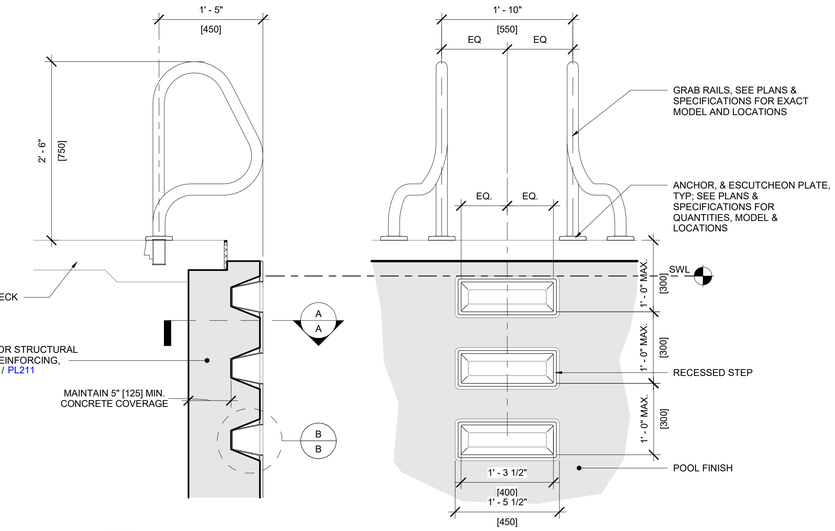
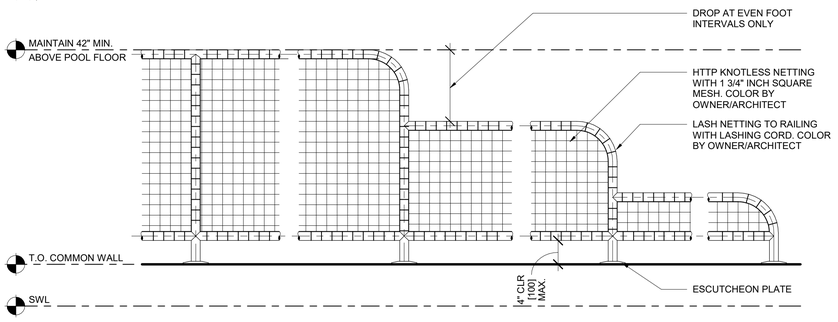
3/26/2026 11:56:42 Autodesk Docs://Superior South Pool Renovation/25204.02 Superior South Pool_Aquatics_R26.rvt





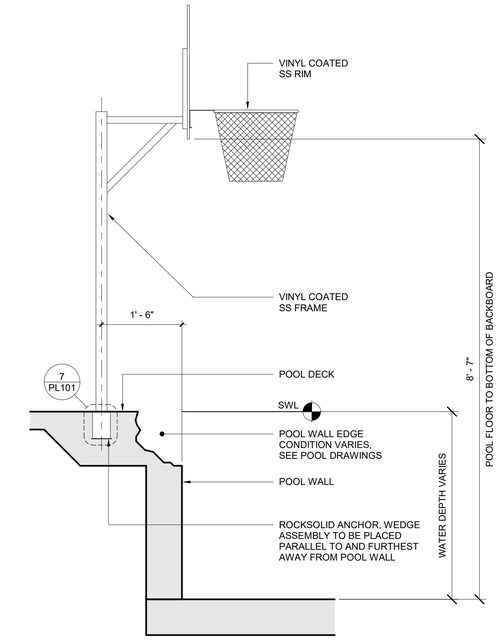
NOTES:
1. REFER TO PLAN AND SECTION DRAWINGS FOR QUANTITY AND LOCATIONS OF INWALL STEPS
2. PROVIDE (1) ONE INWALL STEP FOR EVERY 1'-0" OF WATER DEPTH TO A MAXIMUM DEPTH OF 4'-6"
3. MAINTAIN A 6" MINIMUM DISTANCE BETWEEN BOTTOM STEP TREAD AND POOL FLOOR TO ALLOW FOR PROPER CONCRETE COVERAGE

5 PL114 GRAB RAIL - CYCOLAC RECESSED STEP DETAIL VIEW
1" = 1'-0"



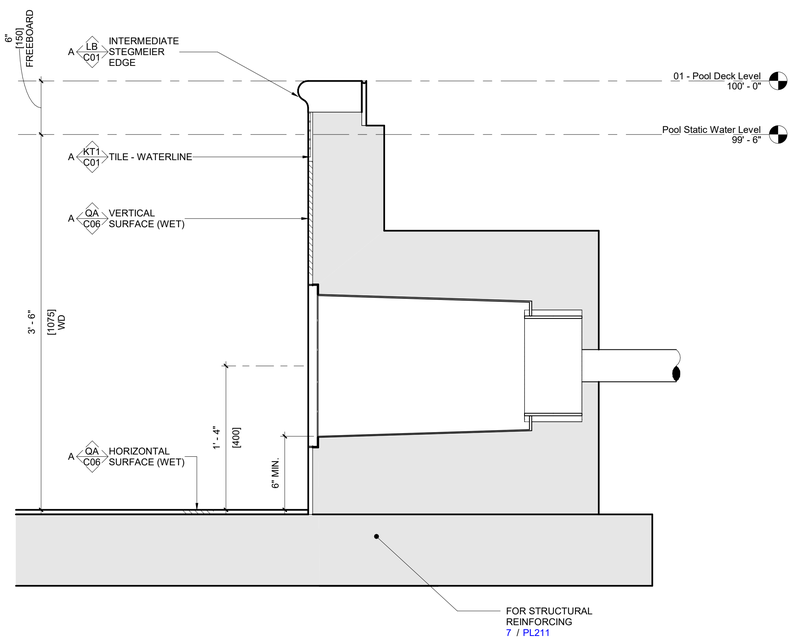
NOTES:
1. REFER TO PLAN FOR LENGTH AND CONFIGURATION

6 PL114 RAIL - BARRIER DETAIL VIEW
1" = 1'-0"

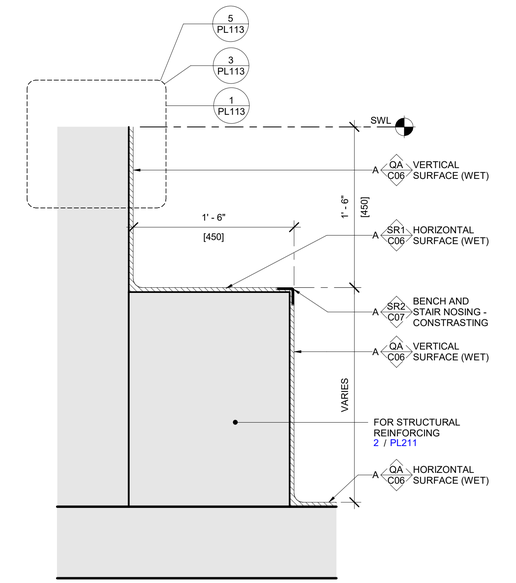


NOTES:
1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

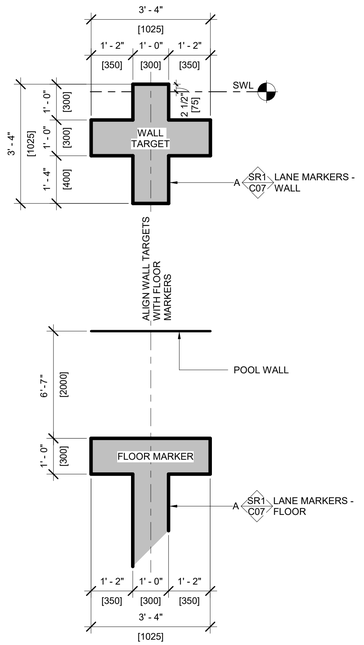
3 PL114 ACTIVITIES - WATER BASKETBALL ANCHOR DETAIL VIEW
3/4" = 1'-0"



4 PL114 WALL SUMP DETAIL VIEW
1 1/2" = 1'-0"



1 PL114 POOL WALL - BENCH DETAIL VIEW
1 1/2" = 1'-0"



NOTES:
1. TILES SHALL BE INSTALLED SO THAT FINISHED FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL SURFACE
2. ALL TILES SHALL BE IN A CONTRASTING COLOR TO POOL FINISH, BOTH FLOOR AND WALL. CONFIRM TILE COLOR WITH OWNER/ARCHITECT

2 PL114 FLOOR MARKERS AND WALL TARGETS DETAIL VIEW
1/2" = 1'-0"

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POOL A - LEISURE POOL DETAILS

PL114

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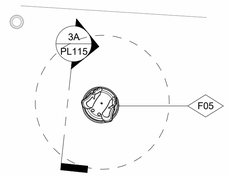
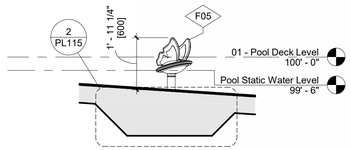
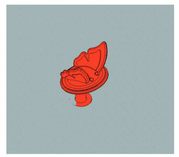
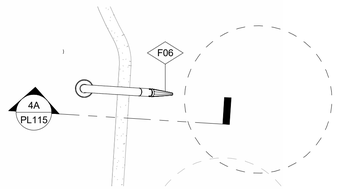


3 | F05 - WATERPLAY FLUTTERBY
PLAN VIEW
3/8" = 1'-0"

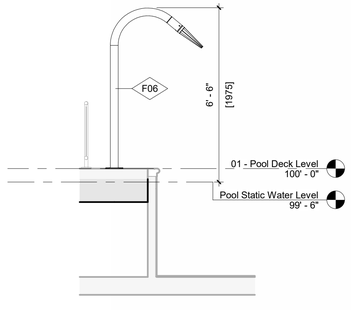


3A | F05 - WATERPLAY FLUTTERBY
SECTION VIEW
3/8" = 1'-0"

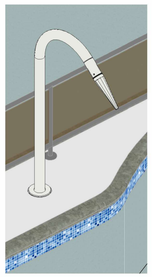


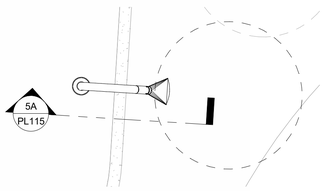


4 | F06 - WATERPLAY RESTORATIVE SPRAY 2
PLAN VIEW
3/8" = 1'-0"

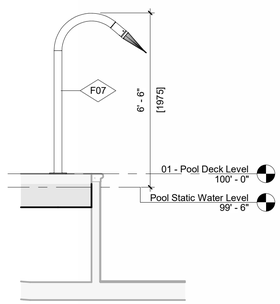


4A | F06 - WATERPLAY RESTORATIVE SPRAY 2
SECTION VIEW
3/8" = 1'-0"

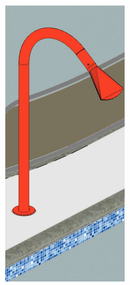


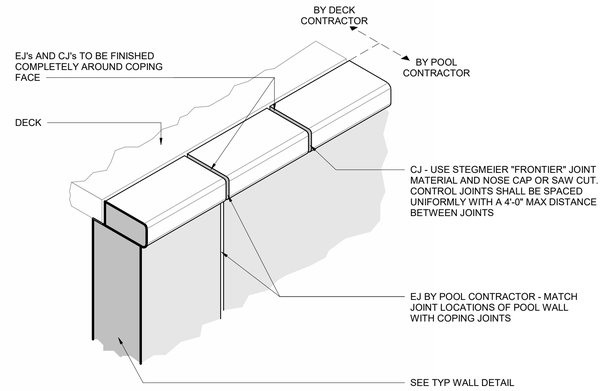


5 | F07 - WATERPLAY RESTORATIVE SPRAY 1
PLAN VIEW
3/8" = 1'-0"

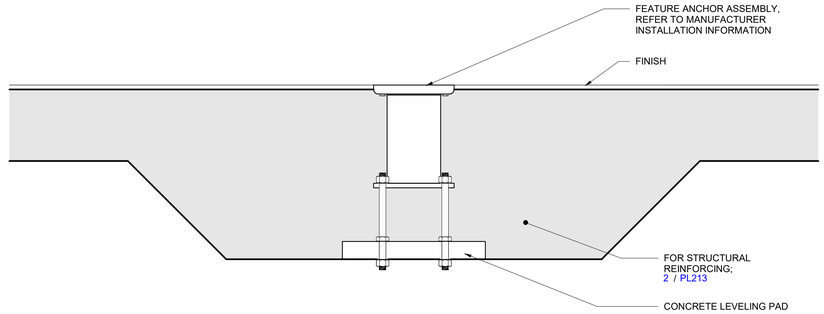


5A | F07 - WATERPLAY RESTORATIVE SPRAY 1
SECTION VIEW
3/8" = 1'-0"





1 | CONTROL & EXPANSION JOINT DETAIL - FORMED POOL EDGE
DETAIL VIEW
1" = 1'-0"



SECTION VIEW

NOTES:
1. FOR COMPLETE INSTALL DETAILS REFER TO WATERPLAY ASSEMBLY DOCUMENTS.

2 | ACTIVITY INSTALLATION
DETAIL VIEW
1 1/2" = 1'-0"

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POOL A - LEISURE POOL DETAILS

PL115

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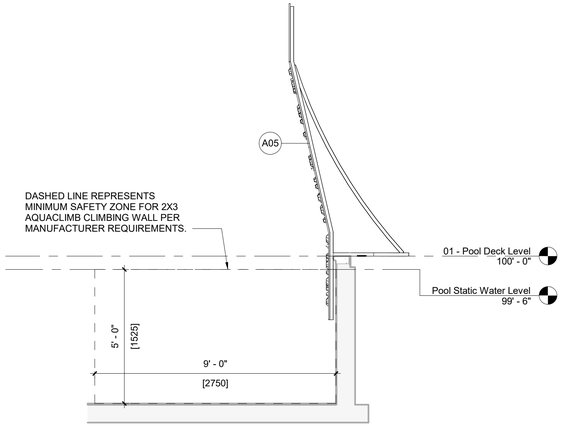
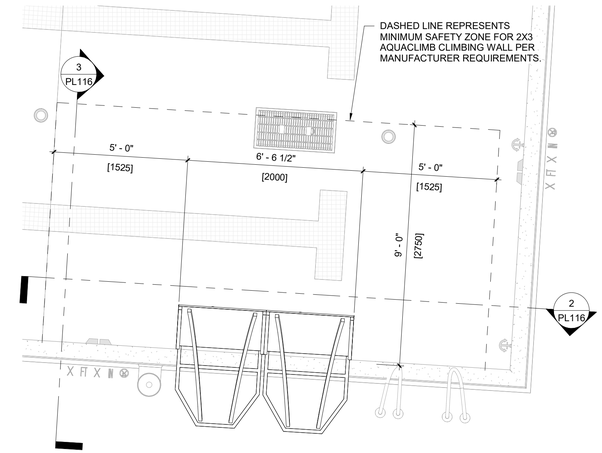
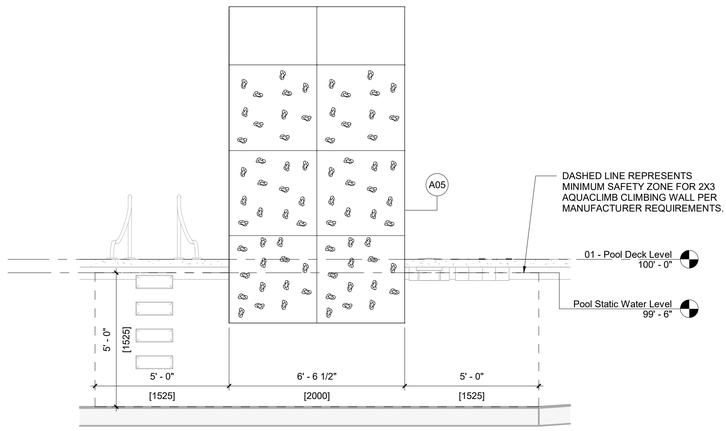
NOTE: TOP ROW OF EXISTING HANDHOLDS TO BE REMOVED AND PLUGGED TO MEET WD SAFETY REQUIREMENT.



3 PL116 POOL A - CLIMBING WALL SAFETY ZONE
SECTION VIEW
3/8" = 1'-0"



1 PL116 POOL A - CLIMBING WALL SAFETY ZONE
PLAN VIEW
3/8" = 1'-0"



2 PL116 POOL A - CLIMBING WALL SAFETY ZONE
SECTION VIEW
3/8" = 1'-0"

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PL116

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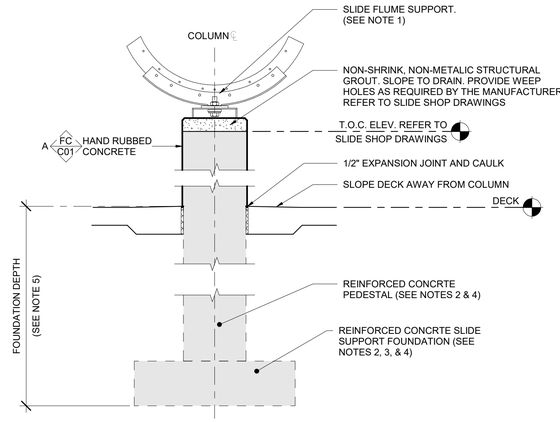


6 | PL117 SLIDE FLUME SUPPORT
DETAIL VIEW
3/4" = 1'-0"

SLIDE COLUMN & FLUME SUPPORT NOTES:

1. DESIGN AND INSTALLATION OF SLIDE FIBERGLASS, SLIDE TOWER, AND STEEL SUPPORT SYSTEM SHALL BE THE RESPONSIBILITY OF THE SLIDE VENDOR.
2. STRUCTURAL DESIGN OF CONCRETE SLIDE SUPPORT PEDESTALS & FOUNDATIONS SHALL BE BY THE SLIDE VENDOR IN COMPLIANCE WITH THE PROJECT GEOTECHNICAL REPORT. DETAILS PROVIDED ARE REPRESENTATIVE OF SPREAD FOOTINGS, THEY ARE NOT SITE SPECIFIC, AND MAY NOT REFLECT THE FINAL ENGINEERED FOUNDATION TYPE. POOL CONTRACTOR SHALL REFER TO SLIDE VENDOR ENGINEER'S STRUCTURAL SHOP DRAWINGS FOR FINAL DETAILS & SPECIFICATIONS, INCLUDING PEDESTAL & FOUNDATION SIZES, ELEVATIONS AND REINFORCING STEEL.
3. SLIDE FOUNDATION DESIGN SHALL BE COORDINATED SUCH THAT SLIDE LOADS DO NOT SURCHARGE BUILDING, POOLS, POOL PIPING, OR OTHER NEARBY STRUCTURES.
4. GENERAL CONTRACTOR, POOL CONTRACTOR, & SLIDE VENDOR/INSTALLER SHALL COORDINATE SLIDE TOWER & SLIDE SUPPORT SYSTEM INSTALLATION, INCLUDING CONCRETE EMBEDS, REINFORCEMENT AND ANCHORS.
5. ALL EXCAVATION FOR SLIDE FOUNDATIONS SHALL BE PERFORMED BY THE POOL CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR & SLIDE VENDOR/INSTALLER. SEE SLIDE VENDOR ENGINEER'S STRUCTURAL SHOP DRAWINGS FOR FOUNDATION DEPTHS AND SIZES.

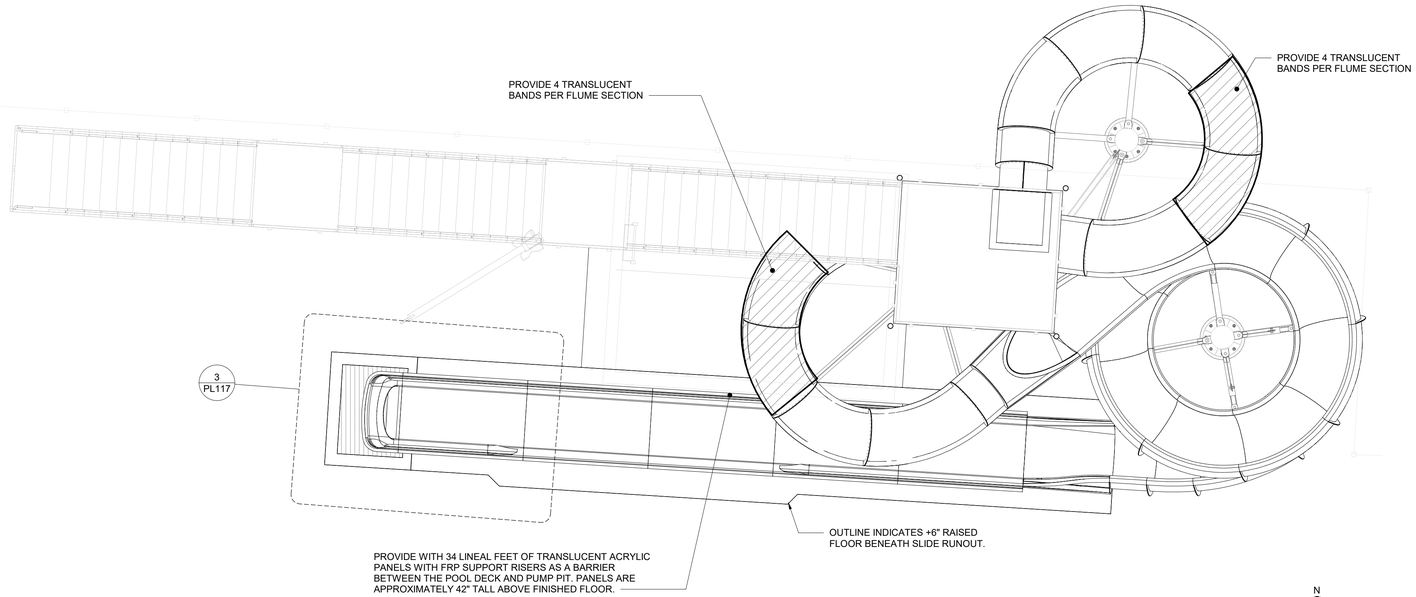
1 | PL117 SLIDE COLUMN & FLUME SUPPORT NOTES
DETAIL VIEW
NOT TO SCALE

SCHEDULE - SLIDE DATA

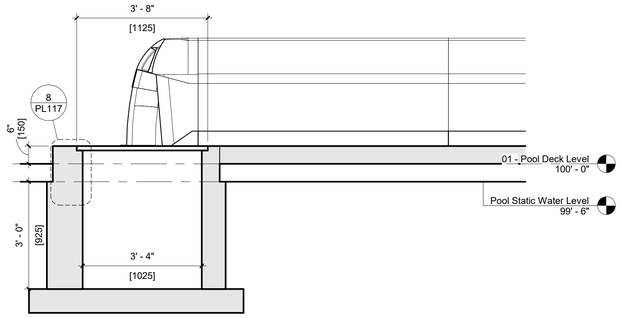
POOL ID	SLIDE INFORMATION					TOWER INFORMATION		
	SLIDE TYPE	MANUFACTURER	SLIDE LENGTH (FT)	SLIDE HEIGHT (FT)	SLIDE FLOW (GPM)	TOWER HEIGHT (FT)	TOWER MATERIAL	RAILING TYPE
A	32" ENCLOSED BODY SLIDE TO 42" OPEN FLUME BODY SLIDE	SPLASHTACULAR	202.81	24.58	900	24.58	GALVANIZED STEEL AND FRP DECKING	GALVANIZED STEEL

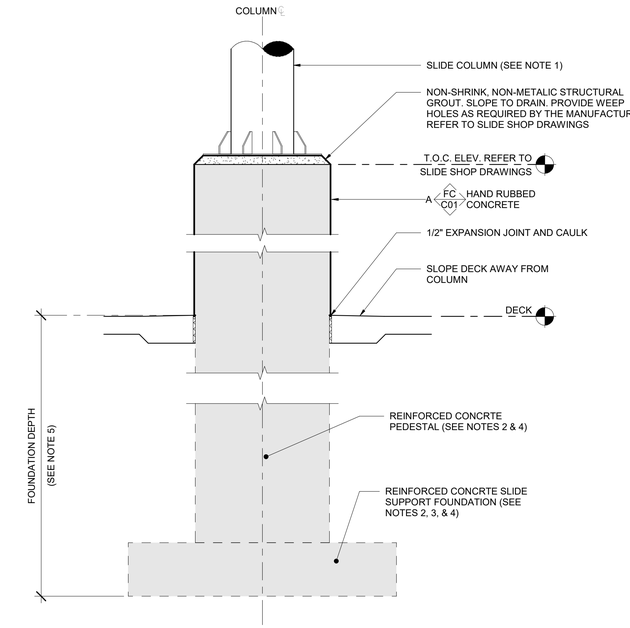
STANDARD SLIDE NOTES:

1. INCLUDE A LOCKING GATE AT ENTRY TO STAIR TOWER
2. PROVIDE DECK MOUNTED RAILING SYSTEM AROUND ANY OBSTRUCTION FROM SLIDE OR SUPPORT SYSTEM WHICH ARE LOWER THAN 7'-0" FROM DECK ELEVATION.
3. SEE SLIDE MANUFACTURER'S DRAWINGS FOR FOOTINGS AND PIERS TO BE INCLUDED IN THE BASE BID.

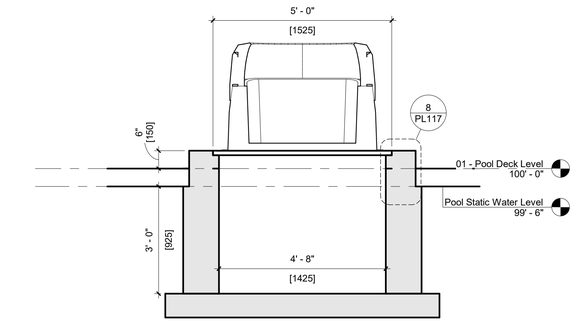


2 | PL117 SLIDE
PLAN VIEW
1/4" = 1'-0"

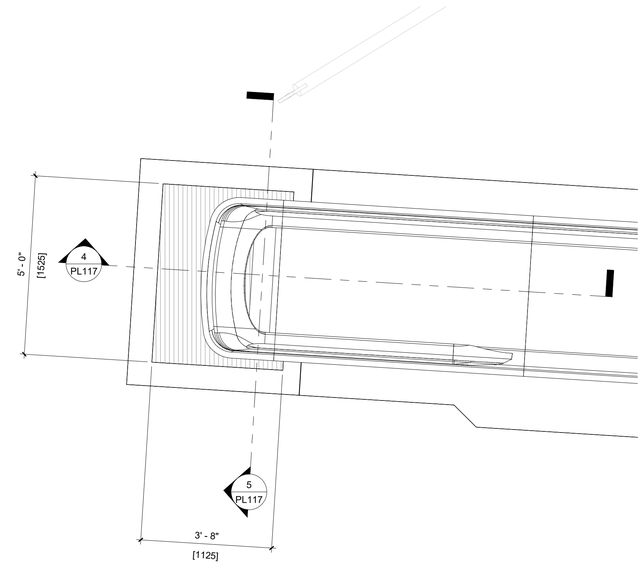




7 | PL117 SLIDE COLUMN SUPPORT
DETAIL VIEW
3/4" = 1'-0"

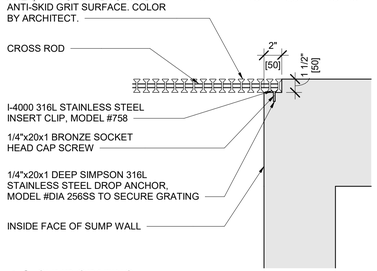


4 | PL117 SLIDE SUMP
SECTION VIEW
1/2" = 1'-0"



3 | PL117 SLIDE ENLARGED SUMP
PLAN VIEW
1/2" = 1'-0"

NOTE:
IF MULTIPLE GRATE PANELS ARE REQUIRED, INSTALL DURAGRID I-4000 INSERT CLIP HOLD-DOWNS, MODEL # 758 AND 1 1/2"x1 1/2"x3/16" PVC ANGLE UNDERBAR AT MIDSPAN TO CONNECT MULTIPLE PANELS IF SUMP IS LONGER THAN 60". IF MULTIPLE PANELS ARE REQUIRED, THEY ARE TO BE EQUAL LENGTHS.



8 | PL117 SUMP GRATING
DETAIL VIEW
1 1/2" = 1'-0"

5 | PL117 SLIDE SUMP
SECTION VIEW
1/2" = 1'-0"

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BRIAN W. FRIBERG
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	T.ED
Checked By:	JRB

Revisions:
Description Date:

Sheet title:
POOL A - SLIDE

PL117

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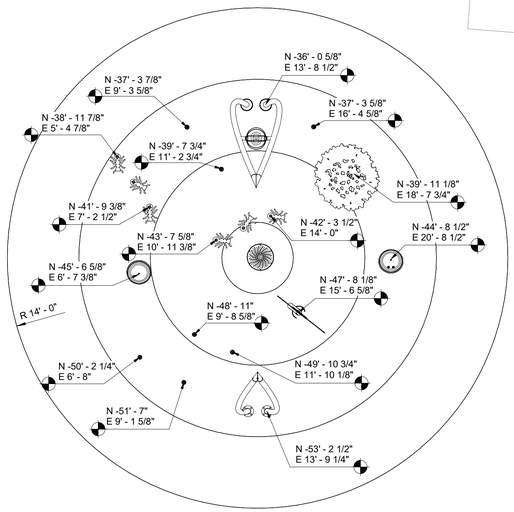
SCHEDULE - WATER FEATURE - POOL B

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
B	F01	SPRAY FEATURE	4	WATERPLAY	0010-7489 - GS TULIP - CANISTER BASE	6	24
B	F02	SPRAY FEATURE	3	WHITEWATER	0010-7485 - GS STRAIGHT UP - CANISTER BASE	6	18
B	F03	GROUND SPRAY	2	WATERPLAY	0010-7453 - GS ANTS SPRAY - CRAWLING GROUND SPRAY BASE	3	6
B	F04	SPRAY FEATURE	1	WATERPLAY	0011-4263 - FS CORN POPPY - MEDIUM PLAYPHASE BASE	3	3
B	F05	SPRAY FEATURE	1	WATERPLAY	0011-1448 - FS MORNING GRASS 1 - 2 SMALL PLAYPHASE BASE	3	3
B	F06	SPRAY FEATURE	1	WATERPLAY	0011-0871 - FS FUN GUY 3 - SMALL PLAYPHASE BASE	10	10
B	F07	SPRAY FEATURE	1	WATERPLAY	0011-0843 - FS FS FUN-GUY 1 - SMALL PLAYPHASE BASE	1	1
B	F08	SPRAY FEATURE	1	WATERPLAY	0011-4254 - FS ANETH BLOOM 1 - MEDIUM PLAYPHASE BASE	6	6
B	F09	SPRAY FEATURE	1	WATERPLAY	0010-1442 - FS DEW DROP - 2 SMALL PLAYPHASE BASE	10	10

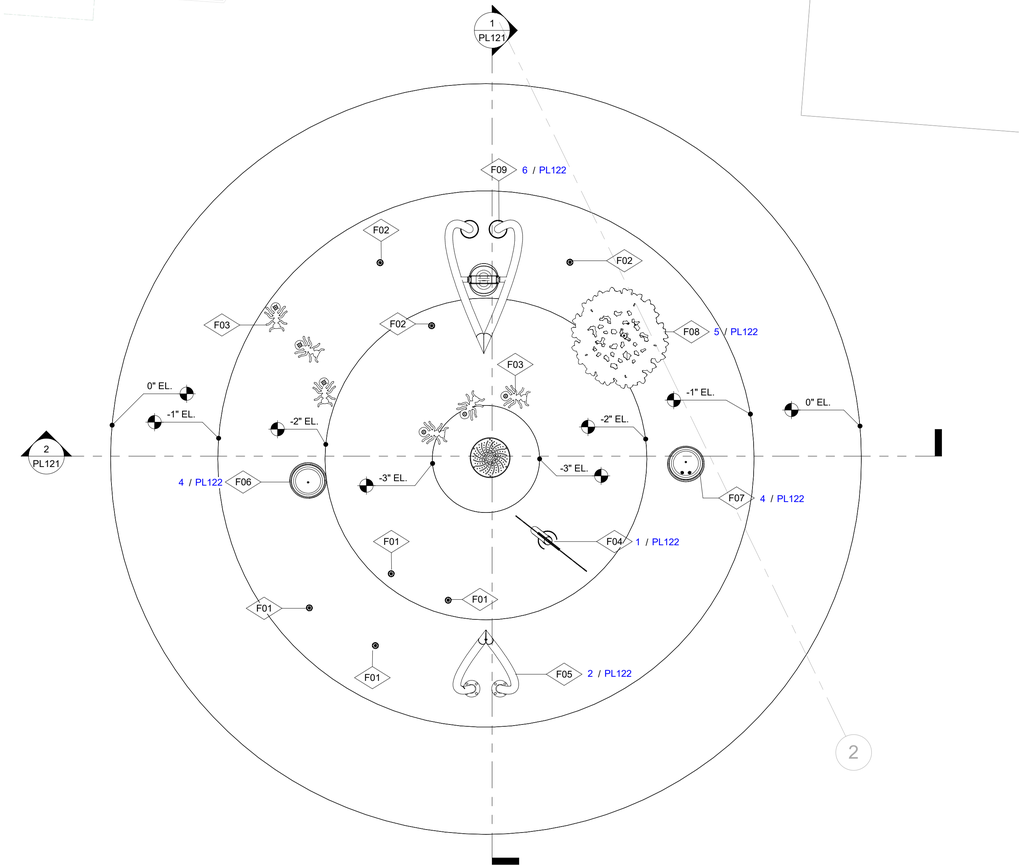
POOL B-SPLASH PAD DATA

DESCRIPTION	QTY	UNITS
PAD PERIMETER	88	FEET
PAD SURFACE AREA	616	SQUARE FEET
WATER TEMPERATURE	AMBIENT	°F
COLLECTOR TANK OPERATING VOLUME	3,740	GALLONS
CIRCULATION RATE	134	GPM
TURNOVER	28 MIN.	
FILTRATION RATE	11.36	GPM/FT²
BACKWASH FLOW	177	GPM
INTENDED USE	RECREATIONAL	





2 | POOL B - SPLASH PAD DIMENSION PLAN VIEW
PL120 | 1/4" = 1'-0"



1 | POOL B - SPLASH PAD PLAN VIEW
PL120 | 3/8" = 1'-0"

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Superior South Pool

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POOL B - SPLASH PAD PLANS

PL120

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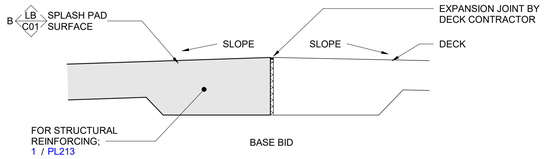
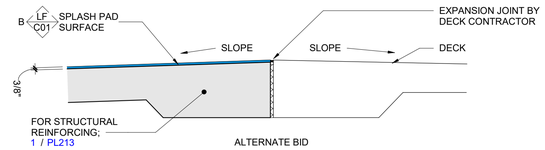




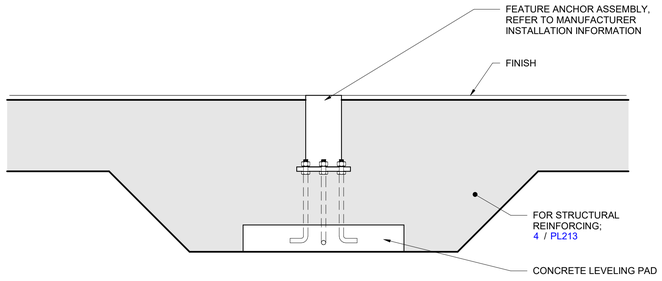
NOTES:
1. LIFEFLOOR "RIPPLE" TEXTURE, 3/8" THICK TILE REQUIRED.
2. SPLASH PAD CONCRETE SHALL BE RECESSED 1/4" FOR 3/8" THICK LIFEFLOOR TILE INSTALLATION.
3. INSTALL CONCRETE WITH A SLOPED SMOOTH TROWELED FINISH MEETING LIFEFLOOR TOLERANCE REQUIREMENTS.

SPRAY PAD (AQUATIC PLAY SURFACE) SLIP RESISTANCE SPECIFICATION:

WHEN OPERATIONAL AND OPEN FOR PATRONS, THE FINISH OF THE AQUATIC PLAY SURFACE (WET DECK/SPRAY PAD) SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

- ASTM F2461 - STANDARD PRACTICE FOR MANUFACTURE, CONSTRUCTION, OPERATION, AND MAINTENANCE OF AQUATIC PLAY EQUIPMENT
- FLAT WET SURFACES: SLIP RESISTANCE CLASS P4, PER STANDARDS AUSTRALIA AS-4586 [P4 CORRESPONDS TO A WET SLIP RESISTANCE VALUE (SRV) = 40 TO 44, UTILIZING THE SLIDER 55 WET PENDULUM TEST METHOD INTENDED FOR WET SURFACES SUBJECT TO BAREFOOT TRAFFIC.]
- SLOPED WET SURFACES: SLIP RESISTANCE CLASS P5, PER STANDARDS AUSTRALIA AS-4586 [SRV = >44]

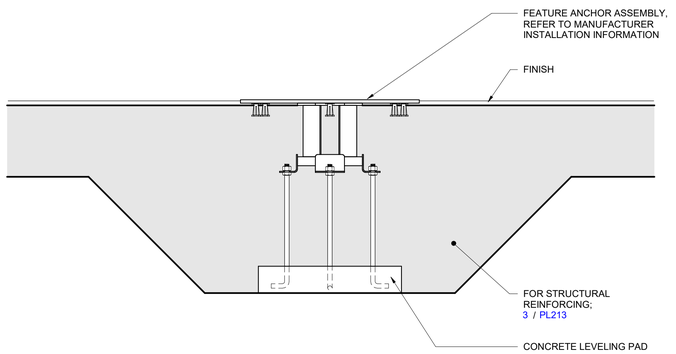
3 PL121 SPLASH PAD EDGE DETAIL VIEW
1" = 1'-0"



SECTION VIEW

NOTES:
1. FOR COMPLETE INSTALL DETAILS REFER TO WATERPLAY ASSEMBLY DOCUMENTS.

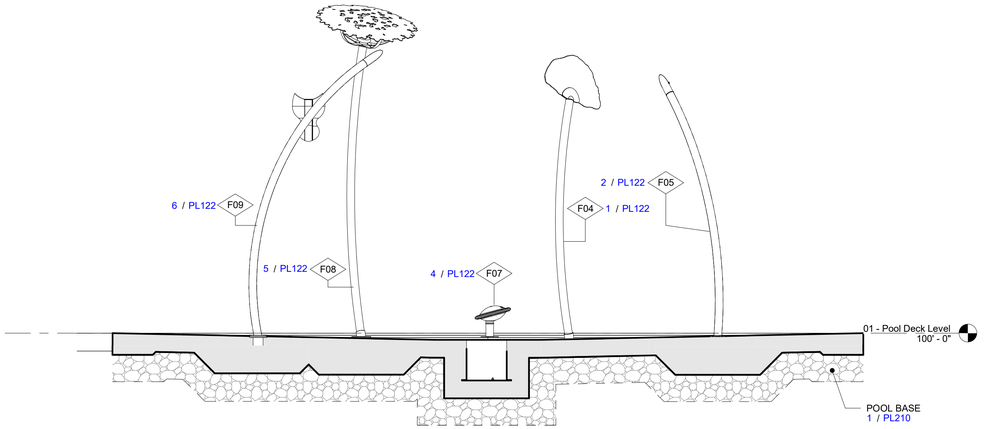
4 PL121 ACTIVITY INSTALLATION DETAIL VIEW
1 1/2" = 1'-0"



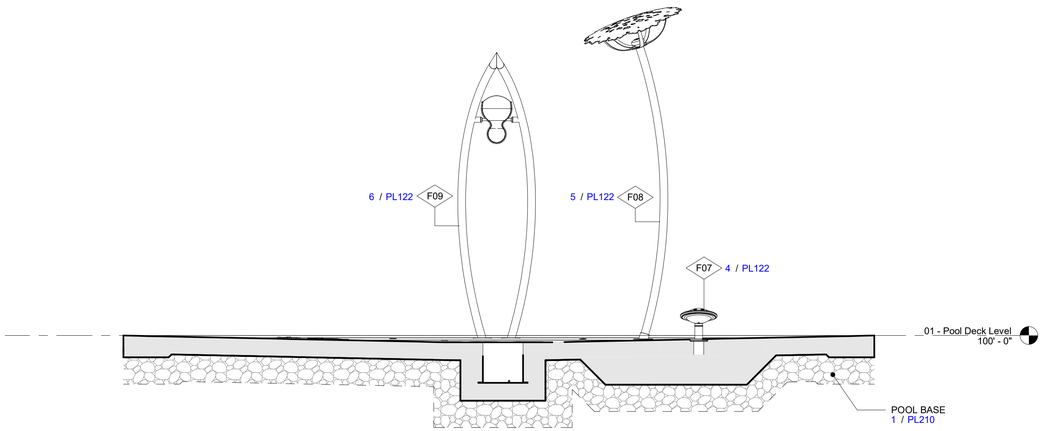
SECTION VIEW

NOTES:
1. FOR COMPLETE INSTALL DETAILS REFER TO WATERPLAY ASSEMBLY DOCUMENTS.

5 PL121 ACTIVITY INSTALLATION DETAIL VIEW
1 1/2" = 1'-0"



1 PL121 POOL B - SPLASH PAD SECTION VIEW
3/8" = 1'-0"



2 PL121 POOL B - SPLASH PAD SECTION VIEW
3/8" = 1'-0"

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POOL B - SPLASH PAD DETAILS

PL121

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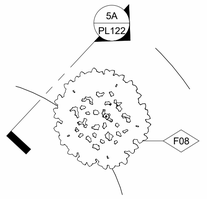
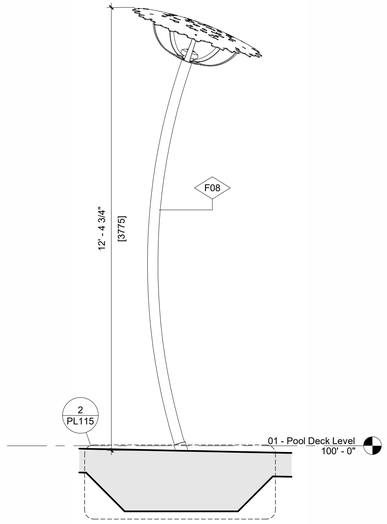
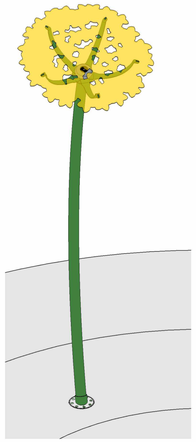
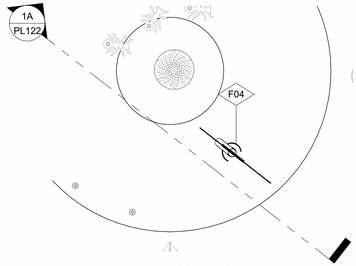


5 | F08 - WATERPLAY ANETH BLOOM 1
PLAN VIEW
3/8" = 1'-0"

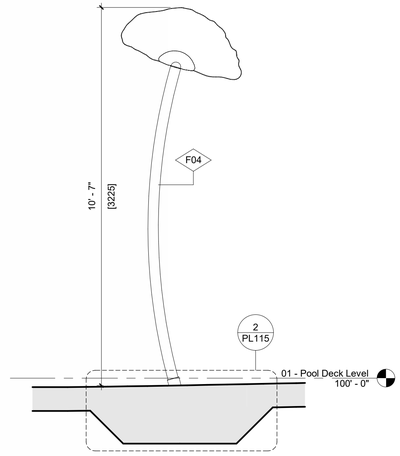


5A | F08 - WATERPLAY ANETH BLOOM 1
SECTION VIEW
1/2" = 1'-0"

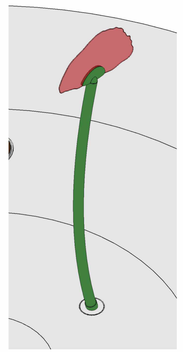


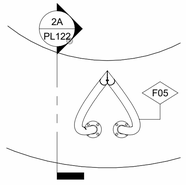


1 | F04 - WATERPLAY CORN POPPY
PLAN VIEW
3/8" = 1'-0"

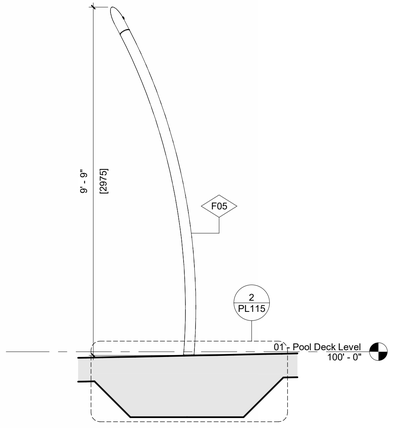


1A | F04 - WATERPLAY CORN POPPY
SECTION VIEW
1/2" = 1'-0"

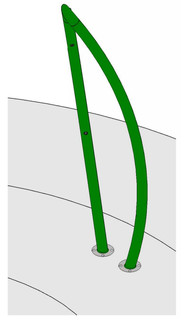


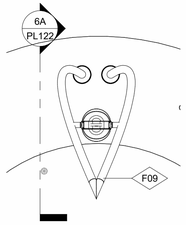


2 | F05 - WATERPLAY MORNING GRASS 1
PLAN VIEW
3/8" = 1'-0"

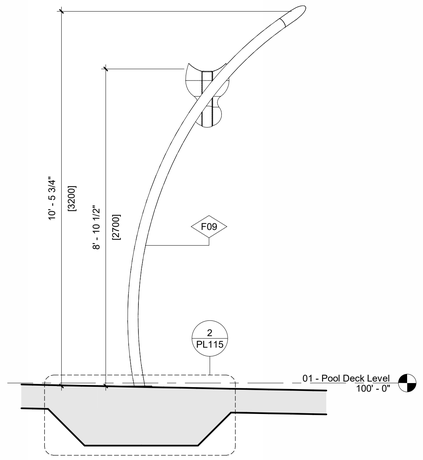


2A | F05 - WATERPLAY MORNING GRASS 1
SECTION VIEW
1/2" = 1'-0"

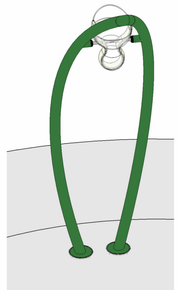


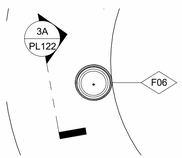


6 | F09 - WATERPLAY DEW DROP
PLAN VIEW
3/8" = 1'-0"

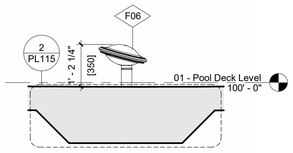


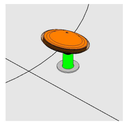
6A | F09 - WATERPLAY DEW DROP
SECTION VIEW
1/2" = 1'-0"



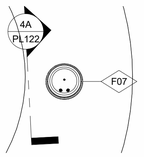


3 | F06 - WATERPLAY FUN GUY 3
PLAN VIEW
3/8" = 1'-0"





3A | F06 - WATERPLAY FUN GUY 3
SECTION VIEW
1/2" = 1'-0"



4 | F07 - WATERPLAY FUN GUY 1
PLAN VIEW
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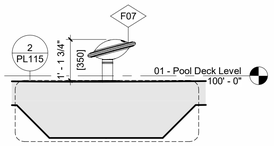

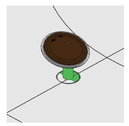

4A | F07 - WATERPLAY FUN GUY 1
SECTION VIEW
1/2" = 1'-0"

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POOL B - SPLASH PAD DETAILS

PL122

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3/26/2026 11:57:06 Autodesk Docs://Superior South Pool Renovation/25204.02 Superior South Pool_Aquatics_R26.rvt

DESIGN IS IN ACCORDANCE WITH THE TOWN OF SUPERIOR AND THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED TO DATE.

NOTE

STRUCTURAL DRAWINGS AND POOL DRAWINGS MUST BE USED IN CONJUNCTION WITH EACH OTHER. POOL DRAWINGS DICTATE ALL FINAL CONDITIONS OF POOL, FEATURES, AND DIMENSIONS OF POOL SHELL, INCLUDING POOL FINISH. UNLESS OTHERWISE INDICATED, STRUCTURAL DIMENSIONS ARE CONCRETE TO CONCRETE, AND DICTATE REQUIRED THICKNESSES FOR STRUCTURAL INTEGRITY ONLY.

GEOTECHNICAL PARAMETERS

SOIL PARAMETERS FOR POOL STRUCTURAL DESIGN

1. POOL DESIGNED FOR EMPTY AND FULL CONDITIONS.
2. ALL SOIL PARAMETERS FOR THE POOL STRUCTURAL DESIGN ARE BASED UPON RECOMMENDATIONS FROM THE GEOTECHNICAL REPORT BY CTL THOMPSON, DATED FEBRUARY 4, 2026. SUBGRADE PREPARATION OF THE SOILS BELOW THE POOL BASE LAYER IS THE RESPONSIBILITY OF THE CONTRACTOR PREPARING THE REMAINDER OF THE SITE AND SHALL BE EXECUTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. OVER EXCAVATION OF FILL OR UNSUITABLE SOIL MAY BE REQUIRED PER THE GEOTECHNICAL ENGINEER. PERIMETER DRAINAGE AROUND THE AQUATIC STRUCTURES, ABOVE THE NON-PERMEABLE MEMBRANE, SHALL BE PROVIDED BY SITE/CIVIL IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
3. STATED NET ALLOWABLE SOIL BEARING CAPACITY = 2000 PSF
4. STATED EQUIVALENT FLUID PRESSURE = 70 PSF/FT

STRUCTURAL AND REINFORCEMENT NOTES

STRUCTURAL NOTES

1. REINFORCEMENT AT WALL CORNERS AND WALL BENDS SHALL BE DETAILED PER THE ASSOCIATED TYPICAL DETAILS. CORNER AND BEND BARS SHALL BE THE SAME SIZE AND SPACING AS THE TYPICAL HORIZONTAL WALL REINFORCING OF THE ASSOCIATED WALLS.
2. UNLESS OTHERWISE INDICATED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS. UNLESS OTHERWISE INDICATED, CONTRACTOR MAY SPLICE CONTINUOUS SLAB BARS AT LOCATIONS OF THEIR CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MID-SPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE INDICATED, SHALL SATISFY THE MINIMUM REQUIREMENTS FOR CLASS B SPLICES.
3. FOR REINFORCEMENT AT WALL OR FLOOR SLAB PENETRATIONS, SEE 2 / PL200
4. MINIMUM POURED CONCRETE DESIGN STRENGTH = 4500 PSI, MINIMUM SHOTCRETE DESIGN STRENGTH = 5000 PSI

REINFORCEMENT NOTES: 60KSI, A615, DEFORMED BARS

1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. TIE POOL REINFORCING STEEL WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE CRSI 63 RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ALL TIE WIRES SHALL BE "MADE TIGHT" FOR ELECTRICAL BONDING PURPOSES, AS REQUIRED PER 2 / PL101.
5. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. REINFORCING IN SINGLE MAT SECTIONS SHALL BE CENTERED IN THE SECTION, UNLESS SHOWN OTHERWISE IN DETAILS.

REINFORCING STEEL MINIMUM CLEAR COVER REQUIREMENTS
COORDINATE WITH REINFORCEMENT STEEL PLACING REQUIREMENTS

1. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2. 2" TYPICAL ALL ELSE, UNLESS NOTED OTHERWISE ON DETAILS

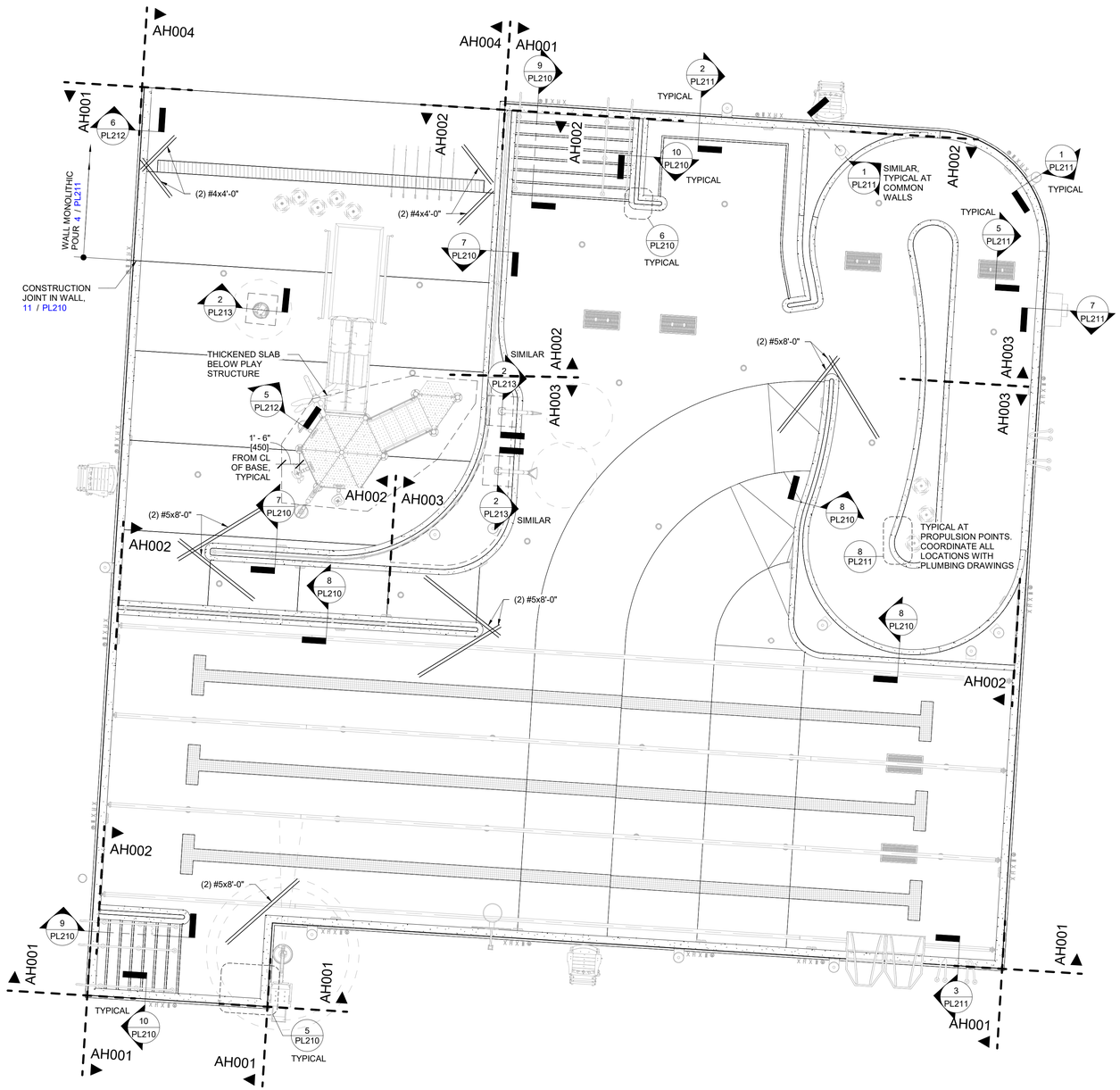
REINFORCEMENT CLASS "B" LAP LENGTHS
BASED UPON 4500 PSI CONCRETE AND 60 KSI REINFORCING STEEL

SCHEDULE - STRUCTURAL REQUIREMENTS - POOL A

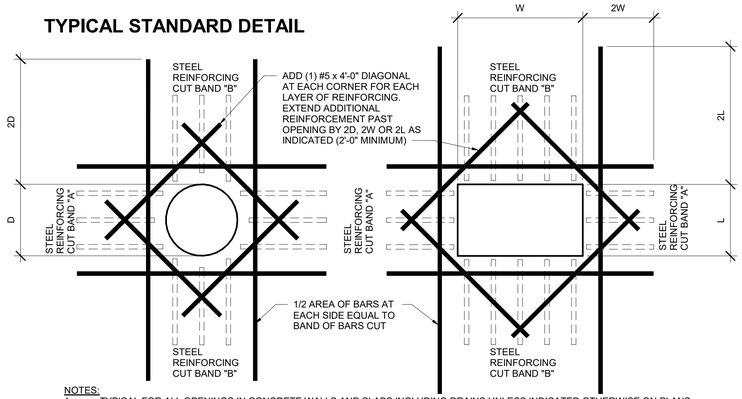
Detail	Pool ID	APPLICABLE STRUCTURAL WALL HEIGHT RANGE (FOR PLAN REFERENCE ONLY)		WALL						FLOOR				
				A				B	C	D			E	F
		Wall Height Range ID	Minimum Applicable Wall Height	Maximum Applicable Wall Height	Thickness	# of Mats of Reinforcement	Horizontal Reinforcement	Vertical Reinforcement	Freeboard Height	Backfill Thickness	Thickness	# of Mats of Reinforcement	Reinforcement	Bedding Course Thickness	Heel
A															
1 / PL212	A	H001	0'-3 1/2"	5'-6"	0'-8"	1	#4@8" OC	#4@8" OC	0'-6"	1'-0" MIN	0'-8"	1	#5@8" OC EW	1'-0" MIN	0'-6"
2 / PL212	A	H002	2'-6"	4'-6"	VARIES	2	#5@6" OC EF	#4@8" OC EF	0'-6"	NA	0'-8"	1	#5@8" OC EW	1'-0" MIN	NA
3 / PL212	A	H003	4'-6"	4'-6"	0'-8"	1	#4@8" OC	#4@8" OC	0'-6"	NA	0'-8"	1	#5@8" OC EW	1'-0" MIN	NA
4 / PL212	A	H004	0'-0"	0'-0"	NA	NA	NA	NA	NA	NA	0'-8"	1	#5@8" OC EW	1'-0" MIN	NA

SCHEDULE NOTES
* WHEN A SECTION CONTAINS ONLY ONE MAT OF REINFORCING, THE REINFORCING STEEL SHALL BE CENTERED IN THE SECTION

SCHEDULE ABBREVIATIONS:
OC ON CENTER
EF EACH FACE
FF FRONT FACE
BF BACK FACE
EW EACH WAY



TYPICAL STANDARD DETAIL



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS.
4. PROVIDE MINIMUM LAP AS NOTED OR SHOWN ON PLANS (TYPICAL).

2 PL200 REINFORCING - REINFORCEMENT AT OPENINGS DETAIL VIEW
NTS

1 PL200 POOL A - LEISURE POOL STRUCTURAL PLAN VIEW
3/16" = 1'-0"

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COLORADO LICENSED
JEFFREY S. ROSNER
67892
PROFESSIONAL ENGINEER
03-26-26

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	Author
Checked By:	Checker

Revisions:

Description	Date:

Sheet title:
STRUCTURAL NOTES, PLAN(S) AND SCHEDULE

PL200

GRÄEF
Project Number: 2026-2000.09
Phone 920 / 592 9440

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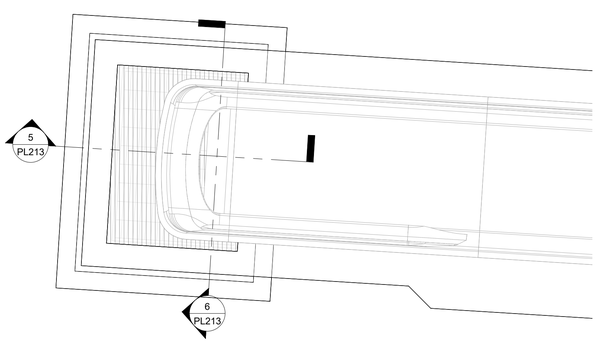
SCHEDULE - STRUCTURAL REQUIREMENTS - POOL B

Detail	Pool ID	Range ID	FLOOR D Thickness	FLOOR D # of Mats of Reinforcement	FLOOR D Reinforcement	FLOOR E Bedding Course Thickness
B						
1 / PL213	B	H011	0'-8"	1	#4@8" OC EW	1'-0" MIN

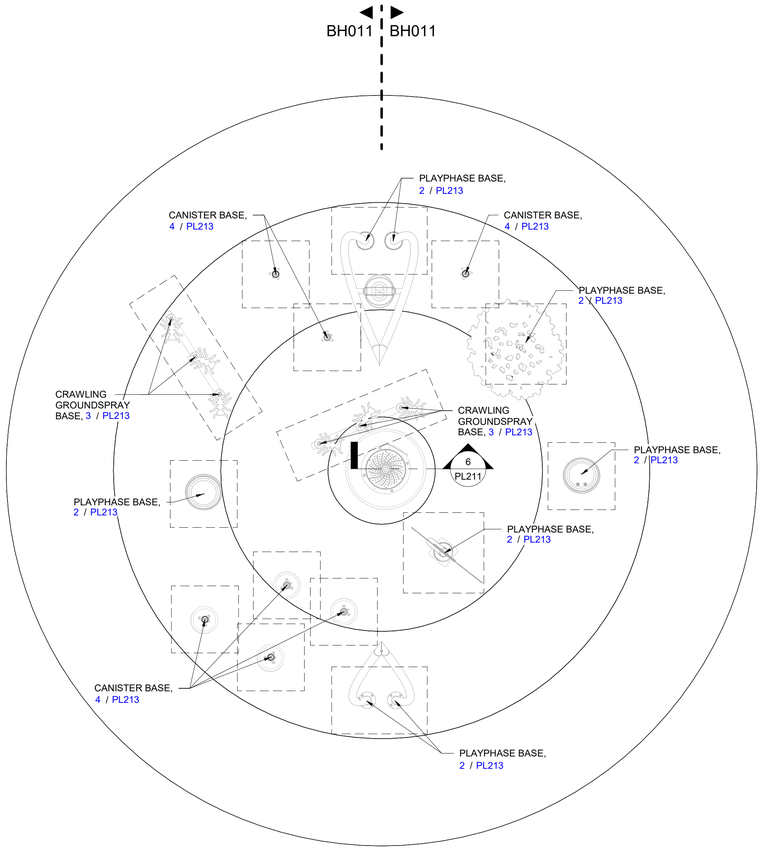
SCHEDULE NOTES
* WHEN A SECTION CONTAINS ONLY ONE MAT OF REINFORCING, THE REINFORCING STEEL SHALL BE CENTERED IN THE SECTION

SCHEDULE ABBREVIATIONS:

OC	ON CENTER
EF	EACH FACE
FF	FRONT FACE
BF	BACK FACE
EW	EACH WAY



2 PL201 SLIDE ENLARGED SUMP - STRUCTURAL PLAN VIEW
1/2" = 1'-0"



1 PL201 POOL B - SPLASH PAD STRUCTURAL PLAN VIEW
3/8" = 1'-0"

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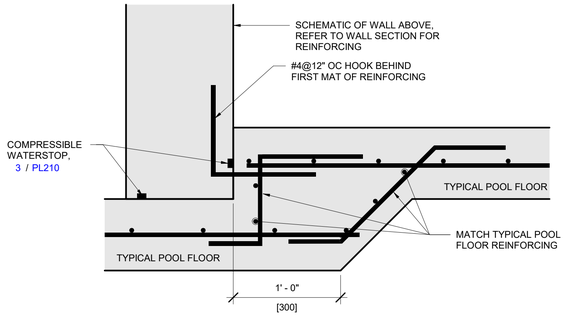
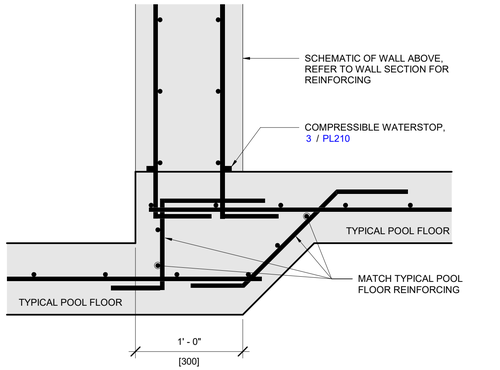
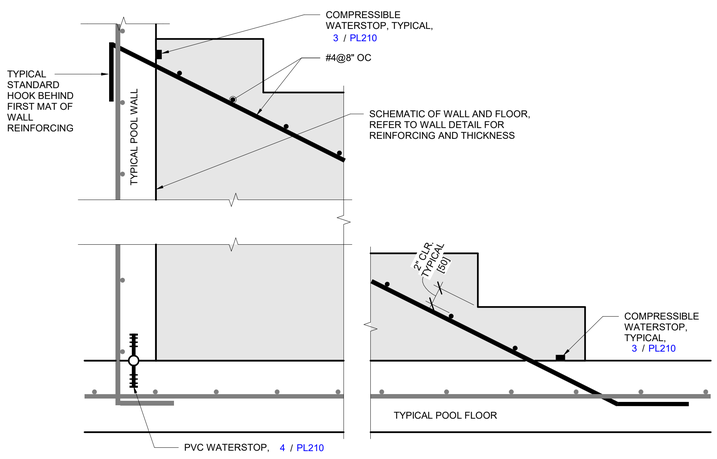


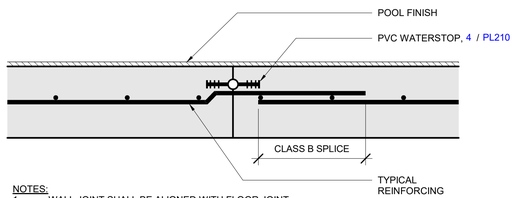
7 | PL210 | REINFORCING DETAIL - SLAB DEPTH TRANSITION DETAIL VIEW
NOT TO SCALE



8 | PL210 | REINFORCING - SLAB DEPTH TRANSITION DETAIL VIEW
NOT TO SCALE

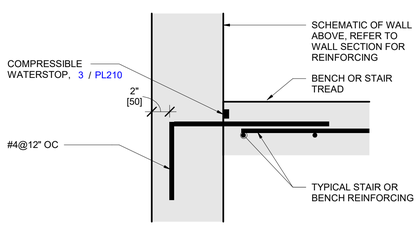


9 | PL210 | REINFORCING DETAIL - STAIR DETAIL VIEW
NOT TO SCALE

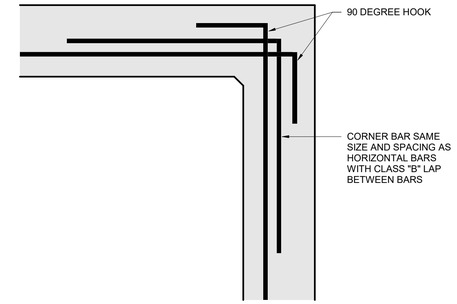


NOTES:
1. WALL JOINT SHALL BE ALIGNED WITH FLOOR JOINT
2. SEE POOL FINISH SCHEDULE

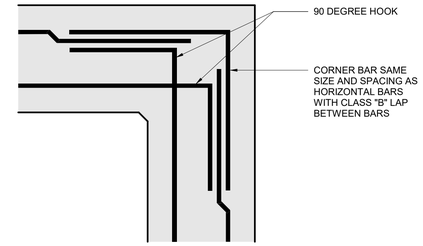
11 | PL210 | REINFORCING - CONSTRUCTION JOINT DETAIL VIEW
NOT TO SCALE



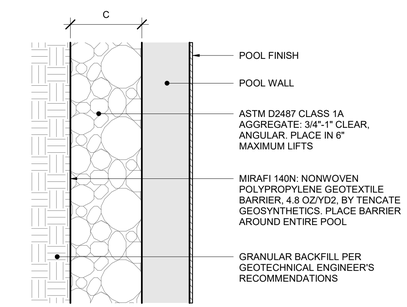
10 | PL210 | REINFORCING - BENCH & STAIR INTERSECTION DETAIL VIEW
NOT TO SCALE



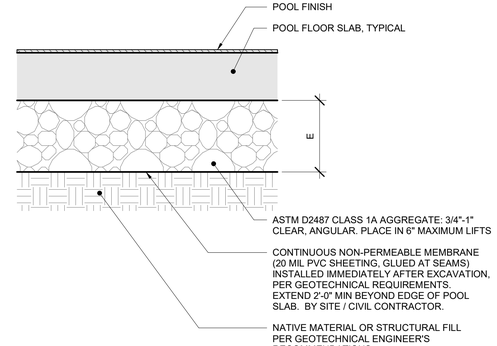
5 | PL210 | REINFORCING - SINGLE MAT REINFORCING AT CORNER DETAIL VIEW
NOT TO SCALE



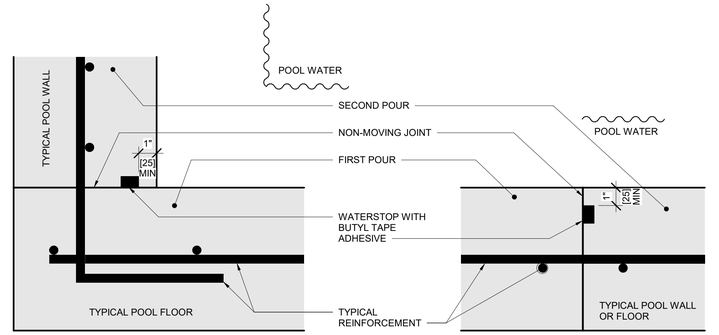
6 | PL210 | REINFORCING - DOUBLE MAT REINFORCING AT CORNER DETAIL VIEW
NOT TO SCALE



2 | PL210 | POOL WALL BACKFILL DETAIL VIEW
NOT TO SCALE



1 | PL210 | FLOOR SUB BASE DETAIL VIEW
NOT TO SCALE

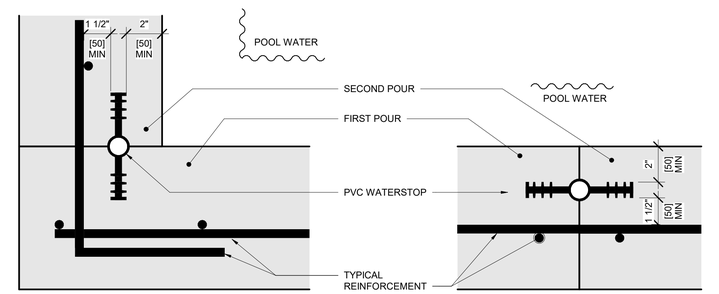


SECTION B-B FLOOR / WALL JOINT

SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTE:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. BASIS OF DESIGN IS TYPE KBA-1510FP WATERSTOP BY ADEKA. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. NOTE THAT CLEARANCES FOR SUBSTITUTIONS MAY DIFFER. REFER TO MANUFACTURER REQUIREMENTS.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
5. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

3 | PL210 | WATERSTOP - COMPRESSIBLE NON-MOVING JOINT - ADEKA DETAIL VIEW
NOT TO SCALE



SECTION B-B FLOOR / WALL JOINT

SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTES:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. WATERSTOP SHALL BE 6" PVC RIBBED WITH 1" DIA CENTERBULB UNLESS NOTED OTHERWISE.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. ALL WATERSTOPS SHALL BE WELDED PER MANUFACTURER'S REQUIREMENTS.
5. SPACING BETWEEN REINFORCING STEEL AND WATERSTOP SHALL BE NO LESS THAN 1.5 x DIA OF THE LARGEST AGGREGATE IN THE APPROVED CONCRETE MIX.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

4 | PL210 | WATERSTOP - PVC DETAIL VIEW
NOT TO SCALE

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COLORADO LICENSED
JEFFREY S. ROSIER
67892
PROFESSIONAL ENGINEER
03-26-26

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
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Checked By:	Checker

Revisions:

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STRUCTURAL GENERAL DETAILS

GRÄEF
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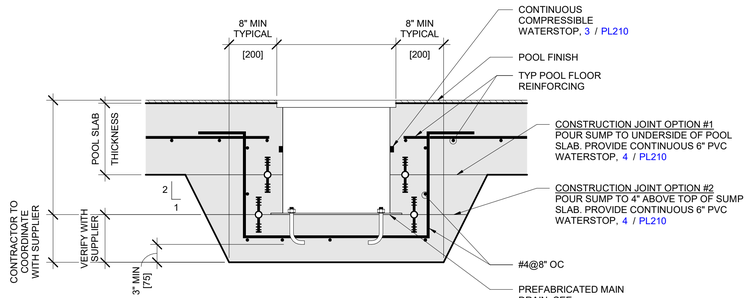
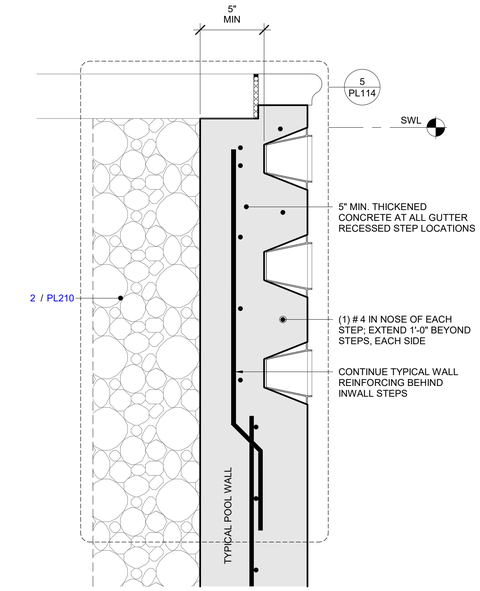
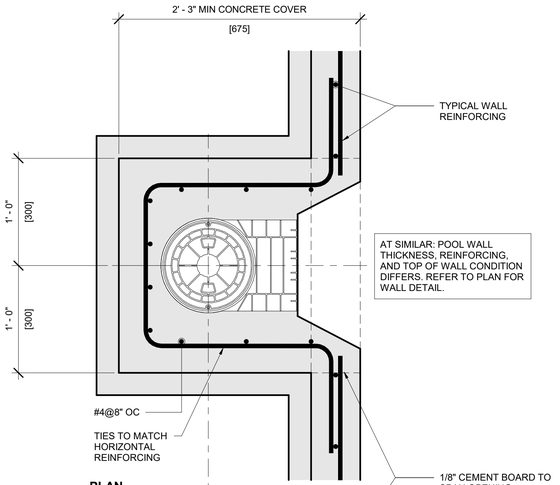


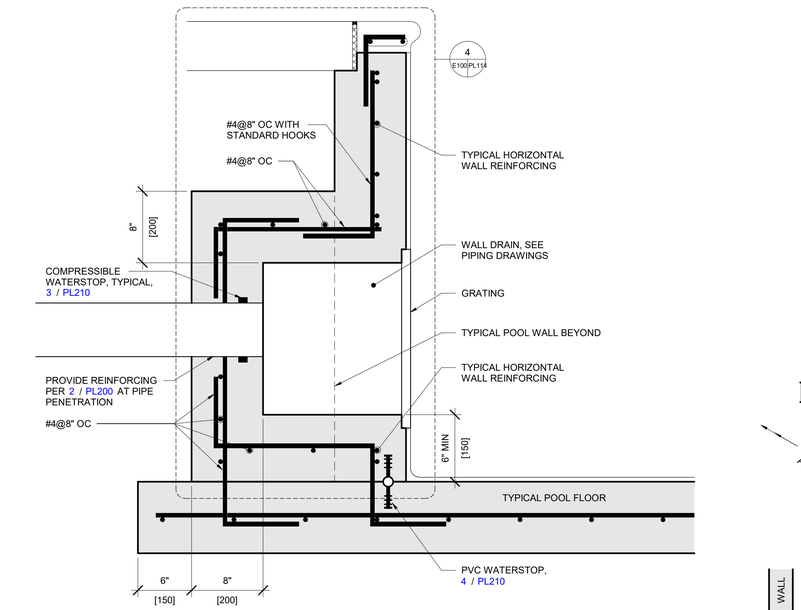
6 | PL211 REINFORCING - WATERPLAY MAIN DRAIN DETAIL VIEW
1" = 1'-0"



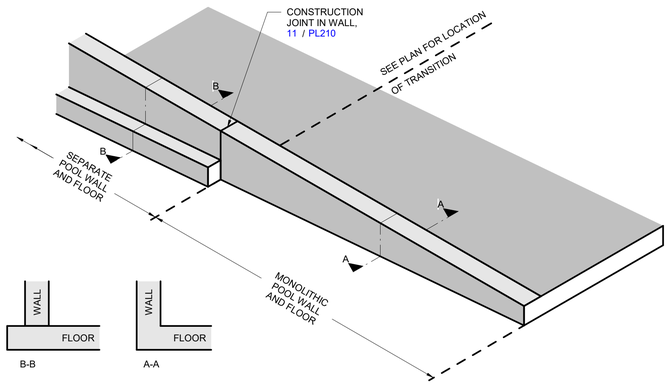
3 | PL211 REINFORCING - CYCOLAC RECESSED STEP - SKIMMER WALL DETAIL VIEW
1 1/2" = 1'-0"



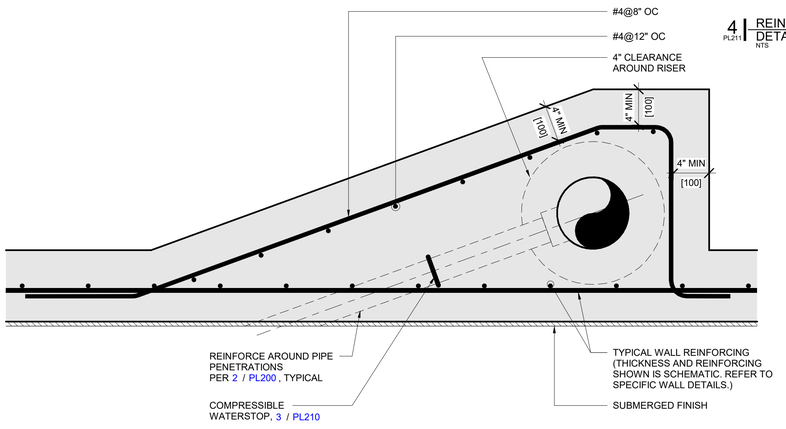
1 | PL211 REINFORCING - SKIMMER DETAIL VIEW
1 1/2" = 1'-0"



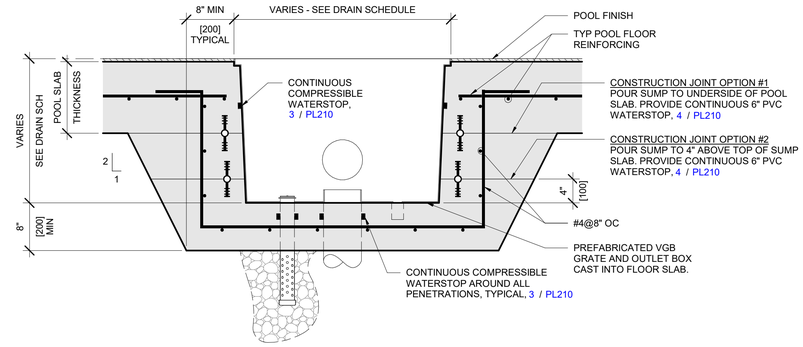
7 | PL211 REINFORCING - WALL DRAIN DETAIL VIEW
1 1/2" = 1'-0"



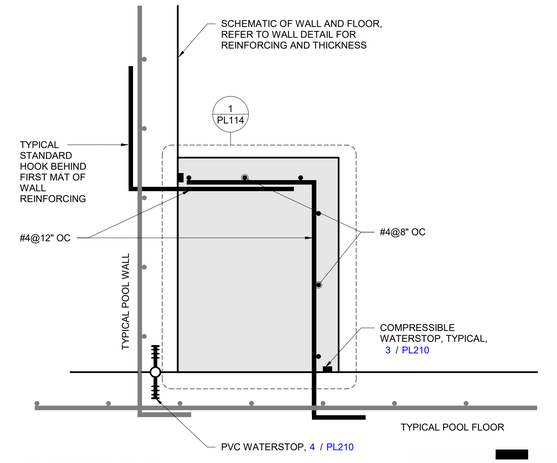
4 | PL211 REINFORCING - TRANSITION - MONOLITHIC POUR DETAIL VIEW
NTS



8 | PL211 REINFORCING - PROPULSION POINT PLAN VIEW
1 1/2" = 1'-0"



5 | PL211 REINFORCING - FLOOR OUTLET DETAIL VIEW
NOT TO SCALE



2 | PL211 REINFORCING - BENCH DETAIL VIEW
1 1/2" = 1'-0"

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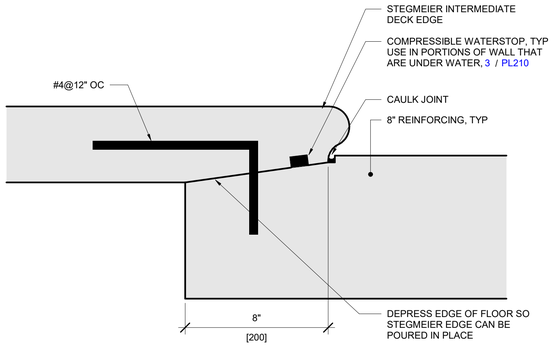
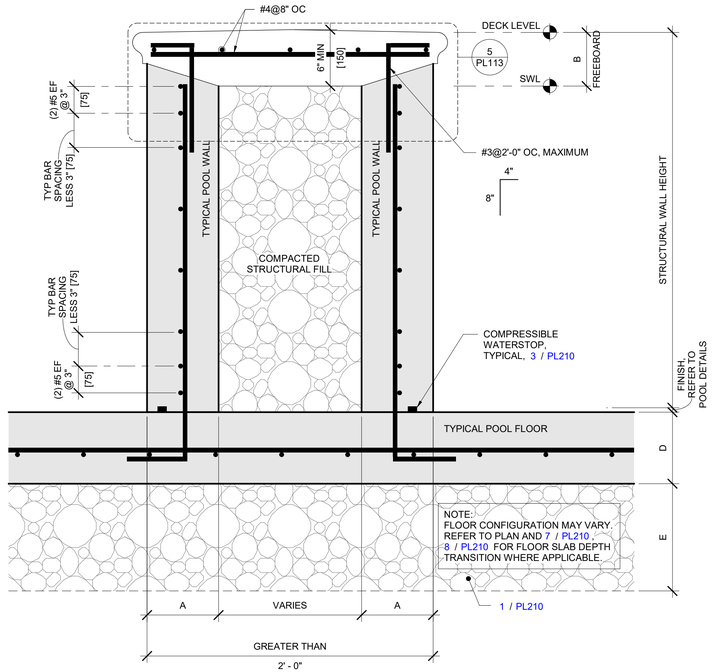
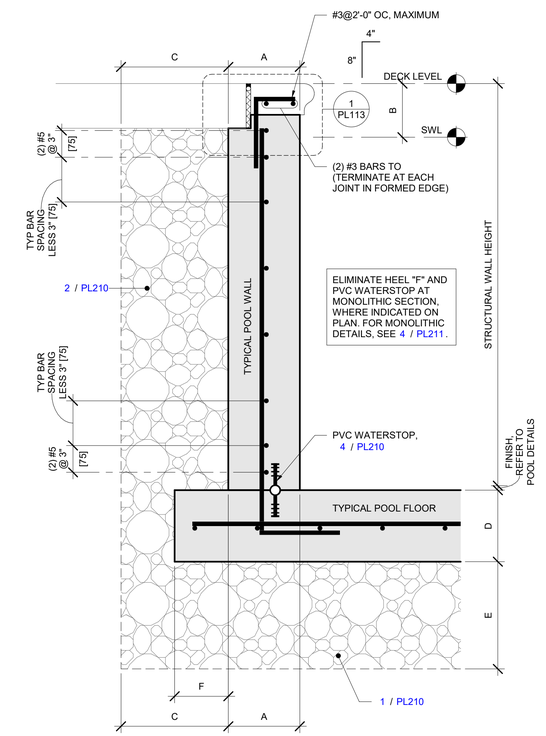


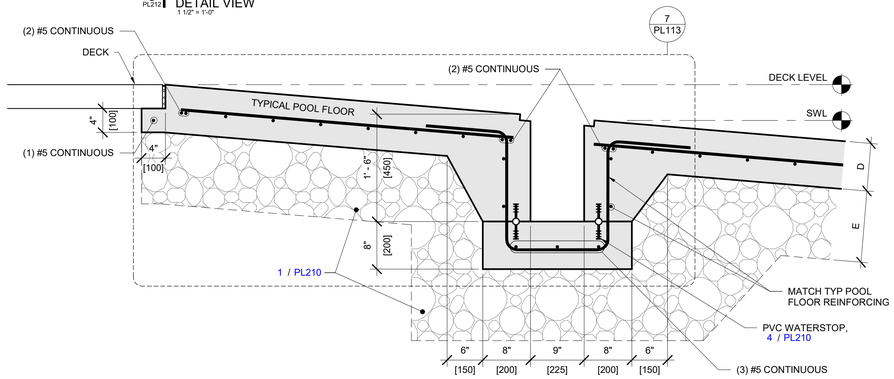
6 PL212 | REINFORCING - POOL WALL/DECK TRANSITION DETAIL VIEW
3" = 1'-0"



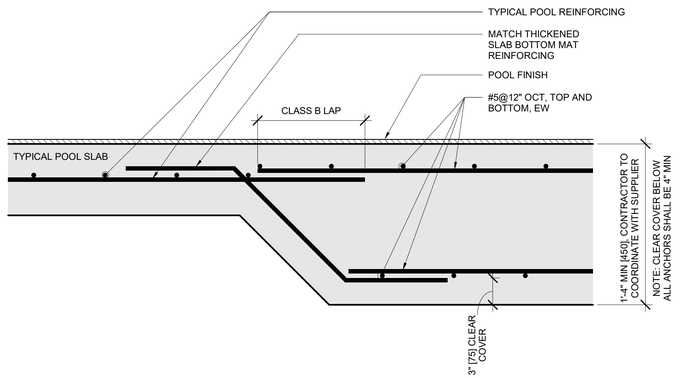
3 PL212 | REINFORCING - TYPICAL ISLAND WALL DETAIL VIEW
1 1/2" = 1'-0"



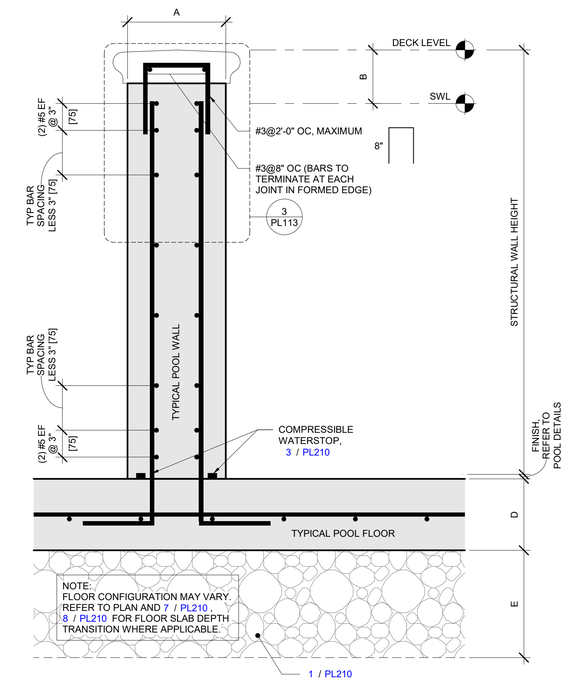
1 PL212 | REINFORCING - SKIMMER WALL DETAIL VIEW
1 1/2" = 1'-0"



4 PL212 | REINFORCING - ROLLBACK DETAIL VIEW
1" = 1'-0"



5 PL212 | REINFORCING - THICKENED SLAB AT PLAY STRUCTURE DETAIL VIEW
1 1/2" = 1'-0"



2 PL212 | REINFORCING - TYPICAL COMMON WALL DETAIL VIEW
1 1/2" = 1'-0"

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67892
PROFESSIONAL ENGINEER
03-26-26

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	Author
Checked By:	Checker

Revisions:

Description	Date:

Sheet title:
STRUCTURAL DETAILS

GRÄEF
Project Number: 2026-2000.09
Phone 920 / 592 9440

PL212

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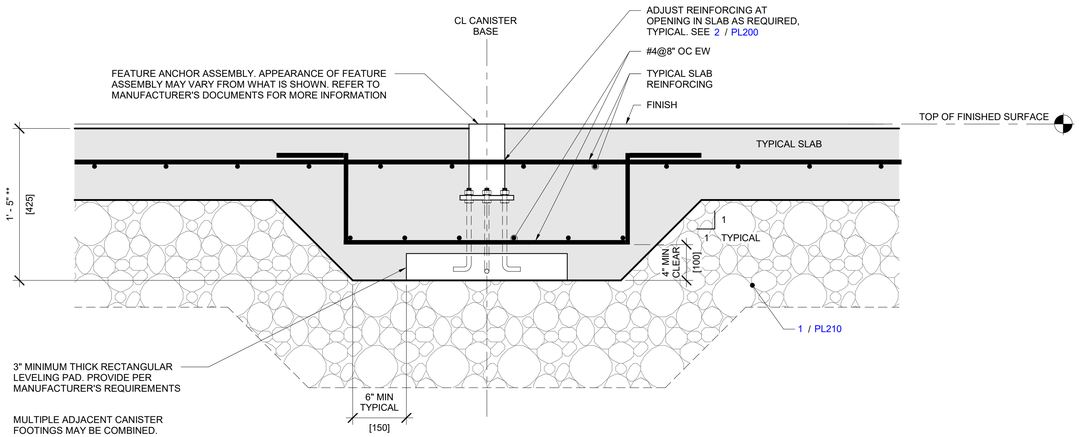
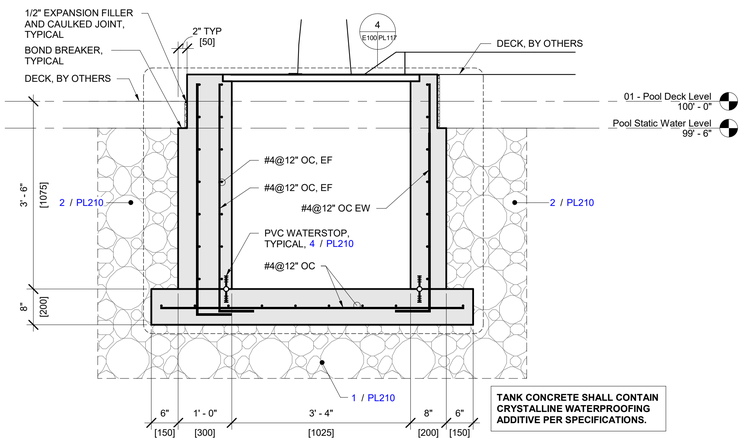
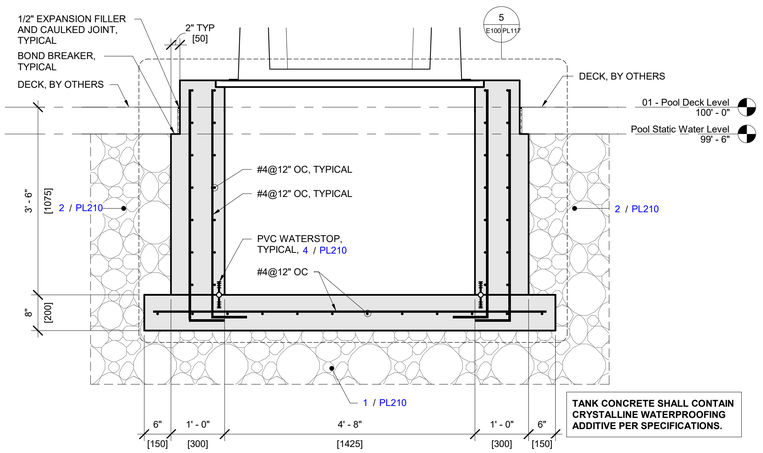


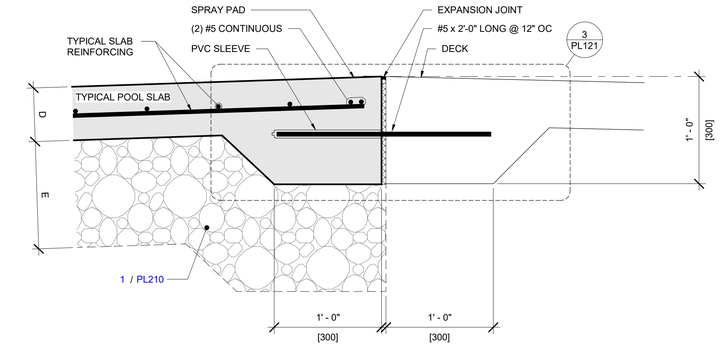
4 | PL213 REINFORCING - WATERPLAY CANISTER BASE DETAIL VIEW
1 1/2" = 1'-0"



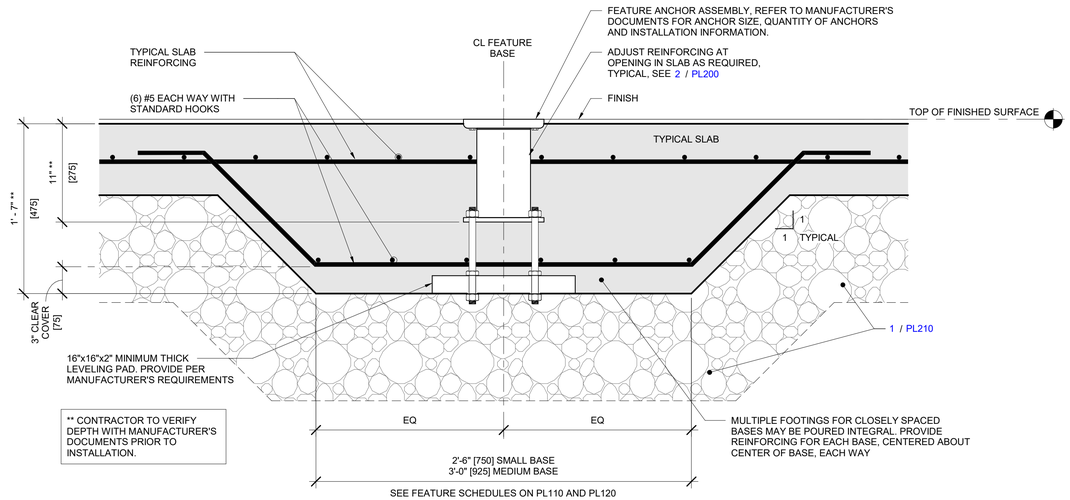
5 | PL213 REINFORCING - SLIDE SUMP TANK SECTION VIEW
3/4" = 1'-0"



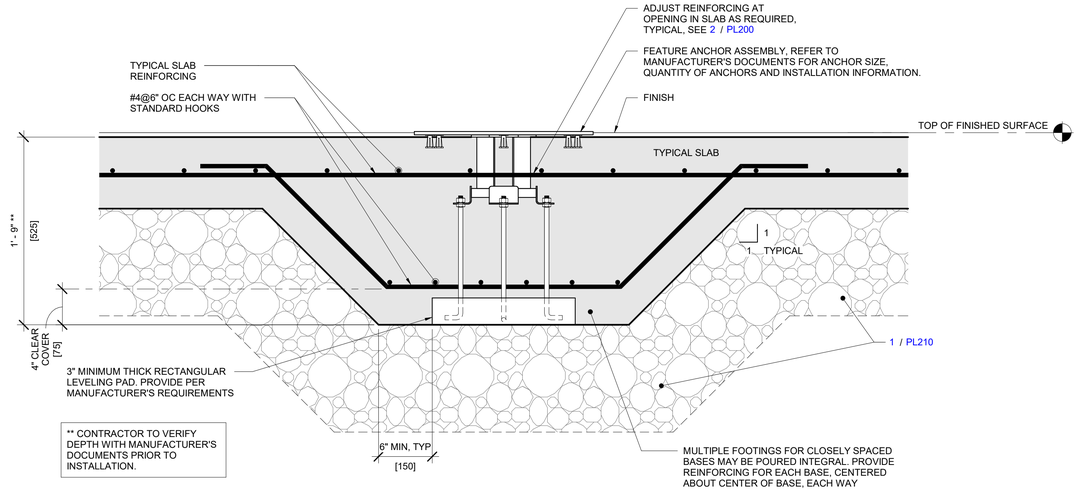
6 | PL213 REINFORCING - SLIDE SUMP TANK SECTION VIEW
3/4" = 1'-0"



1 | PL213 REINFORCING - SPRAY PAD EDGE DETAIL VIEW
1 1/2" = 1'-0"



2 | PL213 REINFORCING - WATERPLAY PLAYPHASE BASE DETAIL VIEW
1 1/2" = 1'-0"



3 | PL213 REINFORCING - WATERPLAY CRAWLING GROUND SPRAY FEATURE BASE DETAIL VIEW
1 1/2" = 1'-0"

WTI
World Leaders in Aquatic Planning, Design and Engineering
100 Park Avenue | Beaver Dam, WI 53916
6200 North Beach Street, Suite 100 | Haltom City, TX 76137 | t 920.887.7375

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COLORADO LICENSED
JEFFREY S. ROSNER
67892
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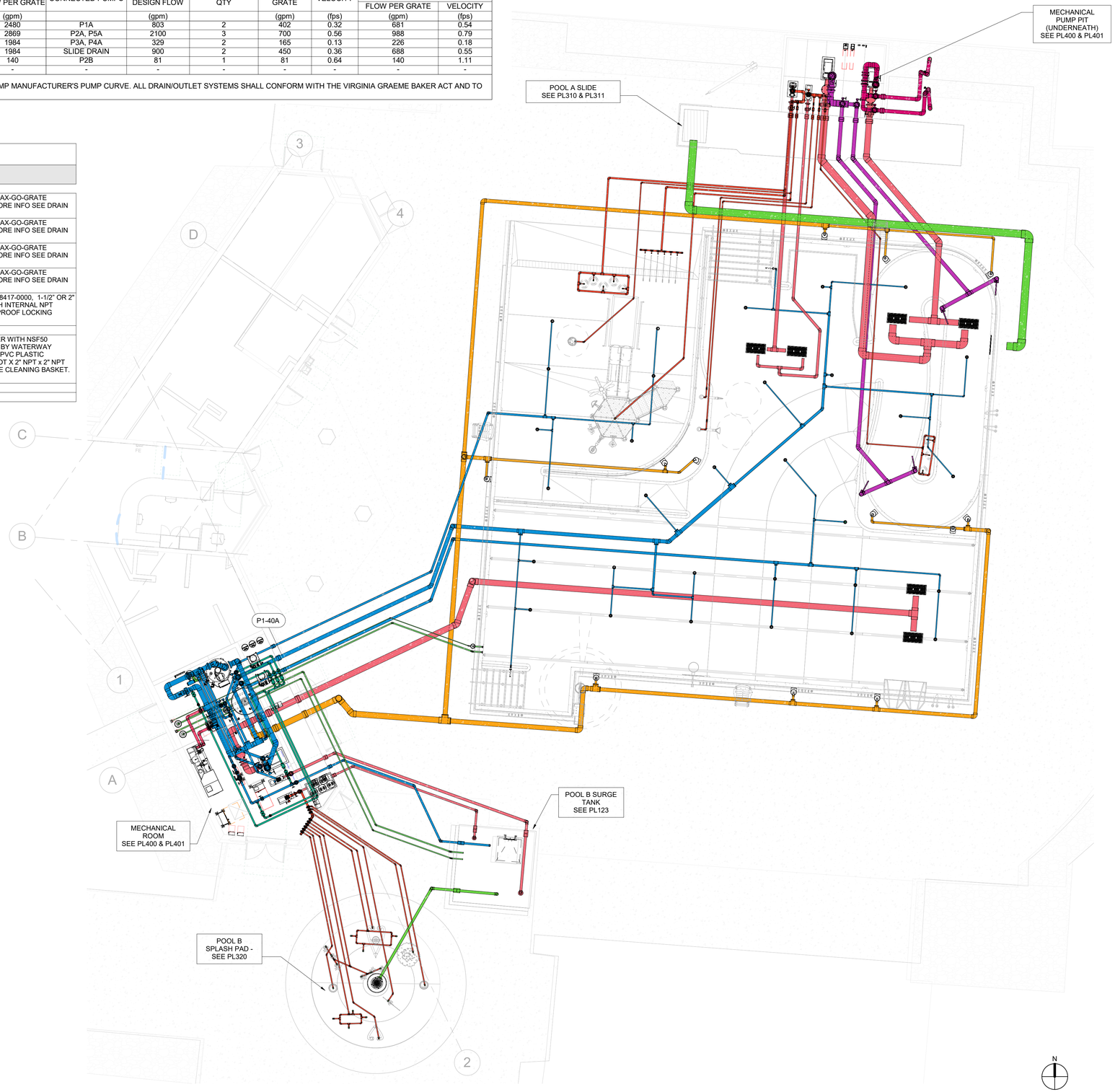
DRAIN SCHEDULE

DRAIN / GRATE ID	DETAIL #	DRAIN/GRATE MFGR SPECIFICATIONS						DESIGN DATA						
		MFGR & MODEL #	DIMENSIONS		OPEN AREA		MAX ALLOWABLE FLOW PER GRATE	CONNECTED PUMPS	SYSTEM TOTAL DESIGN FLOW	DRAIN / GRATE QTY	FLOW PER GRATE	VELOCITY	SYSTEM MAXIMUM	
			WIDTH	LENGTH	PER GRATE	TOTAL							FLOW PER GRATE	VELOCITY
			(ft)	(ft)	(in2)	(in2)	(gpm)		(gpm)		(gpm)	(fps)	(gpm)	(fps)
A-PF1	1/PL302	DALDORADO: DalMAX-SG-183628	1.5	3.0	401	802	2480	P1A	803	2	402	0.32	681	0.54
A-PF2	1/PL302	DALDORADO: DalMAX-SG-183634	1.5	3.0	401	1203	2869	P2A, P5A	2100	3	700	0.56	988	0.79
A-PF3.1	1/PL302	DALDORADO: DalMAX-SG-183625	1.5	3.0	401	802	1984	P3A, P4A	329	2	165	0.13	226	0.18
A-PF3.2	2/PL302	DALDORADO: DalMAX-SG-183625	1.5	3.0	401	802	1984	SLIDE DRAIN	900	2	450	0.36	688	0.55
B-PF4	3/PL302	WATERPLAY: 0010-4133	1.5	1.5	40	40	140	P2B	81	1	81	0.64	140	1.11
-		-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE: THE SYSTEM MAXIMUM FLOW RATE AND VELOCITY HAS BEEN DETERMINED BY USING THE FLOW RATE AT THE END OF THE PUMP MANUFACTURER'S PUMP CURVE. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.

SCHEDULE - POOL FIXTURES

POOL ID	EQUIPMENT ID		FIXTURE	QTY.	MANUFACTURER	DESCRIPTION
A	PF 1		DRAIN SUMP & GRATE	2	DALDORADO	MAUNFACTURED SUMP DalMAX-SG-183628 WITH DALMAX-GO-GRATE ATTACHED WITH DFS-DALMAX-SG FASTENERS FOR MORE INFO SEE DRAIN SCHEDULE
A	PF 2		DRAIN SUMP & GRATE	2	DALDORADO	MAUNFACTURED SUMP DalMAX-SG-183634 WITH DALMAX-GO-GRATE ATTACHED WITH DFS-DALMAX-SG FASTENERS FOR MORE INFO SEE DRAIN SCHEDULE
A	PF 3	.1	DRAIN SUMP & GRATE	2	DALDORADO	MAUNFACTURED SUMP DalMAX-SG-183625 WITH DALMAX-GO-GRATE ATTACHED WITH DFS-DALMAX-SG FASTENERS FOR MORE INFO SEE DRAIN SCHEDULE
A	PF 3	.2	DRAIN SUMP & GRATE	1	DALDORADO	MAUNFACTURED SUMP DalMAX-SG-183625 WITH DALMAX-GO-GRATE ATTACHED WITH DFS-DALMAX-SG FASTENERS FOR MORE INFO SEE DRAIN SCHEDULE
A	PF 5		FLOOR INLET	31	STA-RITE	ADJUSTABLE FLOOR INLET FITTING. MODEL NUMBER 8417-0000, 1-1/2" OR 2" IPS SOLVENT WELD, MOLDED ABS PLASTIC BODY WITH INTERNAL NPT THREADS AND ADJUSTING TOP PLATE WITH VANDAL PROOF LOCKING DEVICE, WHITE IN COLOR
A	PF 6		WALL INLET	2	STA-RITE	1-1/2", MOLDED ABS, WHITE IN COLOR
A	PF 7		SKIMMER	12	WATERWAY	COMMERCIAL RENEGADE GUNITE IN-GROUND SKIMMER WITH NSF50 APPROVAL FOR 75 GPM FLOW RATE. MANUFACTURED BY WATERWAY PLASTICS. CATALOG # 540-6360. MATERIALS: MOLDED PVC PLASTIC SKIMMER WITH ROUND WHITE LID & FRAME. 2.5" SPIGOT X 2" NPT x 2" NPT CONNECTIONS, FLOAT/CHECK VALVE AND REMOVABLE CLEANING BASKET. PLUG EQUALIZER FITTING CONNECTION.
A	PF 8		SUPPLY FITTING	2	HAYWARD	FITTING & GRATE COVER, WHITE IN COLOR
B	PF 4		DRAIN	1	WATERPLAY	WATERPLAY ROUND DRAIN



1 PL300 OVERALL PIPING PLAN
PLAN VIEW
1/8" = 1'-0"

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COLORADO LICENSED
BRIAN W. FRIEBERT
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

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OVERALL PIPING PLAN

PL300

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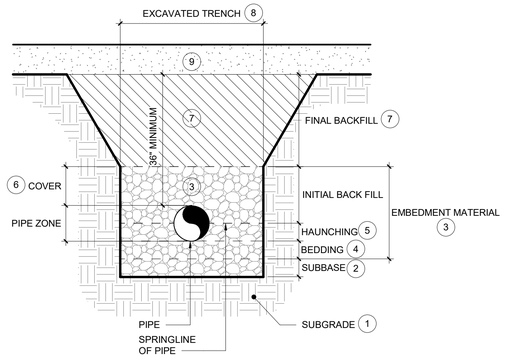
PIPING LEGEND

PIPE DESCRIPTION	3D PIPING	2D PIPING
ACTIVITY PIPING:		
AIR PIPING:		
AUTOFILL PIPING:		
CHEMICAL PIPING:		
FILTRATION PIPING:		
GRAVITY PIPING:		
HEAT PIPING:		
JET PIPING:		
LOW VOLTAGE CONDUIT		
PROPULSION PIPING:		
SKIMMER PIPING:		
SLIDE PIPING:		
SUCTION PIPING:		
VENT PIPING:		

MECHANICAL SYMBOL LEGEND

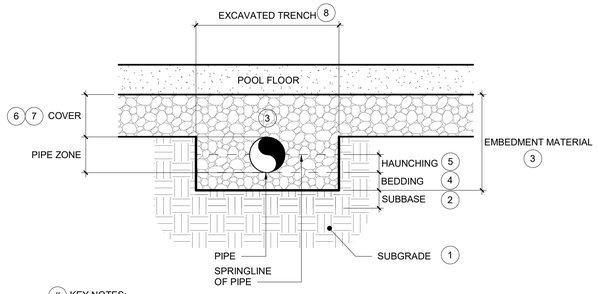
EQUIPMENT TYPE	SECTION VIEW	PLAN VIEW
PUMP		
PUMP WITH INTEGRAL STRAINER		
STRAINER		
REGENERATIVE MEDIA FILTER		
HIGH RATE SAND FILTER (HORIZONTAL)		
HIGH RATE SAND FILTER (VERTICAL)		
POOL HEATER		
HEAT EXCHANGER		
UV UNIT		
CHEMICAL CONTROLLER		
CHEMICAL FEED PUMP		
PULSAR CHLORINE FEEDER		
AXIALL CHLORINE FEEDER		
AXIALL ACID FEEDER (ACID RITE)		
CO2 FEEDER		
CHEMICAL STORAGE TANK		
CO2 STORAGE TANK		
AUTO FILL WITH SENSOR		
SURGE TANK VENTILATION FAN		
GEAR OPERATED BUTTERFLY VALVE	G	
LEVER OPERATED BUTTERFLY VALVE		
PNEUMATIC BUTTERFLY VALVE		
TRUE UNION BALL VALVE		
TRUE UNION CHECK VALVE		
ELECTRONIC MODULATING VALVE	M	
ELECTRO-PNEUMATIC MODULATING VALVE	P	
MODULATING FLOAT VALVE		
VENTURI		
SOLENOID VALVE	S	
CHECK VALVE		
WYE STRAINER		
CONCENTRIC REDUCER		
ECCENTRIC REDUCER		
FLANGED BREAK		
COMPOUND GAUGE		
THERMOMETER		
EXPANSION JOINT		
FLOW METER (SENSOR)	FM	
FLOWVIS FLOMETER / CHECK VALVE	FM	
FLOW SWITCH	FS	



(#) KEY NOTES:
1. SUBGRADE: MINIMIZE DISTURBANCE OF EXISTING SOILS ON SIDES AND BELOW PIPE TRENCH DURING EXCAVATION. CLEAR SUBGRADE OF LARGE STONES & ORGANIC MATERIALS.
2. SUBBASE MATERIALS: REQUIRED ONLY IF EXISTING SUBGRADE CONTAINS UNSUITABLE SOILS AND/OR DOES NOT MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR UTILITY TRENCHES.
3. EMBEDMENT MATERIALS: ASTM D2487 CLASS 1A OR 1B AGGREGATE, 1.5" MAXIMUM SIZE.
4. BEDDING: MINIMUM 6 INCH THICK AGGREGATE LAYER.
5. HAUNCHING: PLACE AND COMPACT HAUNCHING MATERIALS UNDER AND AROUND PIPE/S UP TO THE PIPE SPRINGLINE BY HAND TO ASSURE CONTINUOUS AND EFFECTIVE PIPE SUPPORT.
6. COVER: MINIMUM 12 INCHES ABOVE TOP OF PIPE.
7. FINAL BACKFILL: USE ON-SITE EXISTING SOILS MEETING THE PROJECT GEOTECHNICAL REPORT REQUIREMENTS FOR BACKFILL MATERIALS. DO NOT USE ORGANIC MATERIAL, CLAY, TOPSOIL, OR OTHER DELETERIOUS SUBSTANCES. SLOPE TRENCH EXCAVATION IN FINAL BACKFILL ZONE AS NEEDED.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6 - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.
9. FINAL GRADE MATERIALS: SEE RELATED PROJECT DRAWINGS AND SPECIFICATIONS FOR SOIL MATERIALS AND PLACEMENT REQUIREMENTS AT FINAL GRADE ELEVATIONS (E.G. DECK, CIVIL, LANDSCAPE, ETC. DRAWINGS).

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.
C. COORDINATE WITH OTHER TRADES AS NEEDED TO ASSURE FOOTING/FOUNDATIONS ABOVE DO NOT LOAD THE PIPES. MAINTAIN PROPER CLEARANCES TO PREVENT UNDERMINING OF ADJACENT FOOTINGS/FOUNDATIONS.

1 PL301 POOL PIPE TRENCH DETAIL VIEW
NOT TO SCALE



(#) KEY NOTES:
1. SUBGRADE: MINIMIZE DISTURBANCE OF EXISTING SOILS ON SIDES AND BELOW PIPE TRENCH DURING EXCAVATION. CLEAR SUBGRADE OF LARGE STONES & ORGANIC MATERIALS.
2. SUBBASE MATERIALS: REQUIRED ONLY IF EXISTING SUBGRADE CONTAINS UNSUITABLE SOILS AND/OR DOES NOT MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR UTILITY TRENCHES.
3. EMBEDMENT MATERIALS: ASTM D2487 CLASS 1A OR 1B AGGREGATE, 1.5" MAXIMUM SIZE.
4. BEDDING: MINIMUM 6 INCH THICK AGGREGATE LAYER.
5. HAUNCHING: PLACE AND COMPACT HAUNCHING MATERIALS UNDER AND AROUND PIPE/S UP TO THE PIPE SPRINGLINE BY HAND TO ASSURE CONTINUOUS AND EFFECTIVE PIPE SUPPORT.
6. COVER: MINIMUM 12 INCHES ABOVE TOP OF PIPE.
7. POOL BEDDING COURSE/SUBBASE. SEE PL200 FOR REQUIREMENTS.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6 - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.

2 PL301 POOL PIPE TRENCH BENEATH POOL FLOOR DETAIL VIEW
NOT TO SCALE

GENERAL POOL PIPING AND EQUIPMENT PLAN NOTES

PIPING

1. THE PIPING LAYOUTS ON THESE DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. PIPING AS SHOWN IS SPREAD OUT FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL PIPE ROUTING AND ELEVATIONS.
2. REDUCE THE USE OF FITTINGS AND LONG PIPE RUNS TO MINIMIZE HEAD LOSS IN THE SYSTEM.
3. ALL OUTDOOR PIPING SHALL BE INSTALLED IN A PIPE TRENCH WITH BEDDING AND COVER MATERIALS PER SPECIFICATIONS. PIPING MAY BE STACKED IN THE PIPE TRENCH. PER PL301- 1 AND 2.
4. ARROWS DENOTE DIRECTION OF FLOW.
5. REFER TO ALL DISCIPLINES DOCUMENTATION AND COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
6. ALL GRAVITY PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1" DROP PER 10' LENGTH. ALL OUTDOOR PIPING SHALL BE INSTALLED WITH A SLOPE TO ALLOW COMPLETE DRAINING. PROVIDE WINTERIZING/DRAINING INSTRUCTIONS AND SCHEMATICS TO OWNER.
7. CONTRACTOR SHALL USE SWING JOINTS OR OTHER MEANS AND METHODS AS REQUIRED TO PROVIDE POOL INLET FITTINGS FLUSH AND PERPENDICULAR WITH THE POOL FLOOR AND AS REQUIRED FOR PROPER SLOPE TO DRAIN FOR WINTERIZATION.
8. SUPPORT PIPES PER P406-4 THRU 13.
9. ALL SUPPORTS, BRACING, FASTENERS AND HARDWARE IN THE SURGE TANK(S) SHALL BE STAINLESS STEEL.
10. THE INTENT OF THESE DRAWINGS IS NOT TO BE INCLUSIVE OF ALL VALVES OR FITTINGS REQUIRED FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL VALVES AND FITTINGS REQUIRED.

PIPE PENETRATIONS

1. SEE BUILDING STRUCTURAL DRAWINGS FOR ALL WALL DIMENSIONS AND WALL/REINFORCING STEEL DIMENSIONS AND DETAILS, INCLUDING REINFORCING REQUIREMENTS AROUND ALL PIPE PENETRATIONS.
2. THE POOL CONTRACTOR SHALL FURNISH ALL SLEEVES FOR THE PENETRATIONS SHOWN ON THE POOL DRAWINGS.
3. THE SLEEVES SHALL BE INSTALLED BY THE BUILDING CONTRACTOR DURING THE STEEL AND FORMWORK PLACEMENT. BUILDING CONTRACTOR SHALL COORDINATE WITH THE POOL CONTRACTOR DURING PLACEMENT AND OBTAIN SLEEVE LOCATION APPROVAL FROM THE POOL CONTRACTOR PRIOR TO POURING THE WALLS.
4. THE POOL CONTRACTOR SHALL PROVIDE ALL LINK-SEALS REQUIRED IN THE PIPE PENETRATIONS
5. ALL PIPE PENETRATION DRAWINGS AND DIMENSIONS ARE SPECIFIC TO THE WTI BASIS OF DESIGN POOL EQUIPMENT AND LAYOUTS AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL PENETRATION LOCATIONS AND SIZES BASED ON ENGINEER APPROVED EQUIPMENT SELECTIONS AND ACTUAL SITE CONDITIONS. PROVIDE SHOP DRAWINGS TO POOL ENGINEER
6. REFER TO PL200-2 FOR REINFORCEMENT AT PIPE PENETRATIONS.
7. REFER TO STRUCTURAL DRAWINGS FOR FUTURE CORED OPENINGS.
8. SEE PENETRATION SCHEDULE FOR ALL PIPE PENETRATIONS SHOWN IN THE ELEVATION DETAILS ON PL600.

MECHANICAL EQUIPMENT

1. CONTRACTOR SHALL PROVIDE EQUIPMENT LAYOUTS PER PLANS. IF ALTERNATE LAYOUT IS REQUESTED, CONTRACTOR SHALL PROVIDE SCALED DRAWING LAYOUT FOR REVIEW INDICATING POOL EQUIPMENT, PIPING, PIPE SUPPORTS, REQUIRED CLERANCES, AND SERVICE ACCESS.
2. REFER TO ARCHITECTURAL PLANS FOR ACTUAL ROOM DIMENSIONS AND FINISHED FLOOR ELEVATIONS.
3. VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER
4. PROVIDE MINIMUM 30" SERVICE ACCESS BETWEEN PUMPS. CONTRACTOR SHALL PROVIDE THE GREATER OF MANUFACTURER OR CODE REQUIRED CLEARANCES AROUND AND ABOVE ALL OTHER POOL EQUIPMENT.
5. HEATER FLOW IS MINIMUM PROVIDED BY MANUFACTURER.
6. INSTALL ELECTRICAL INTERLOCK BETWEEN THE CHEMICAL CONTROLLER AND FILTRATION PUMP VFD AS INSTRUCTED BY THE CHEMICAL CONTROLLER INTALLATION MANUAL. THE INTERLOCK SHALL DE-ENERGIZE AND PREVENT OPERATION OF THE CHEMICAL FEEDERS WHEN THE FILTRATION PUMP IS OFF, LOSES POWER, OR IS NOT IN FILTRATION MODE.

POOL CHEMICAL STORAGE AND PIPING NOTES

1. ALL CHEMICAL ROOM DOORS AND CONTAINERS SHALL BE PROVIDED WITH SIGNAGE AS REQUIRED BY FIRE CODE. SEE ARCHITECTURAL DRAWING FOR THE DOOR LABEL REQUIREMENTS.
2. PROVIDE ALL CHEMICAL FEED PUMPS WITH "TUBE FAILURE DETECTION". THIS TECHNOLOGY DETECTS TUBING FAILURE AND WILL AUTOMATICALLY SHUT OFF THE PUMP AND ENERGIZE A RELAY. INSTALL RELAY TO PERMIT COMMUNICATIONS WITH THE CHEMICAL CONTROLLER SO THAT THE OPERATOR CAN BE NOTIFIED OF THE PUMP STATUS BEING IN AN ALARM/OFF CONDITION.
3. DO NOT LOCATE CHEMICAL INJECTION POINTS ABOVE DOORWAY, CHEMICAL FEED PUMPS, OR ELECTRICAL OUTLETS.
4. STORAGE CONTAINERS WITHIN THE CHLORINE AND ACID ROOMS SHALL BE FILLED USING A TRANSFER OR REMOVE AND REPLACE METHOD IN COMPLIANCE WITH STATE & LOCAL FIRE CODES. BULK LIQUID DELIVERY SHALL BE PUMPED FROM A TRUCK TO THE TANK VIA AN AIR DRIVEN PUMP ON THE TRUCK. THE TRUCK PUMPING SYSTEM SHALL HAVE A ONE YEAR AND 5 YEAR TANK INSPECTION AS REQUIRED BY DOT. THIS INSPECTION SHALL INCLUDE TANK INTEGRITY, ALL ASSOCIATED PLUMBING, PUMPS AND CONNECTIONS. INSPECTIONS ARE TO PREVENT ACCIDENTAL LEAKS OR SPILLS DURING THE PUMPING FUNCTION.
5. CALCIUM HYPOCHLORITE BUCKETS SHALL BE DELIVERED IN BUCKETS. ALL BUCKETS SHALL BE DELIVERED IN QUANTITIES AS REQUIRED FOR POOL SANITATION. ENOUGH QUANTITY SHALL BE STORED FOR USE IN THE POOL AS NEEDED. VERIFY PER CODE FOR ALLOWED STORAGE QUANTITY. BUCKETS SHALL BE DOT CERTIFIED AND NOT REUSED FOR OTHER CHEMICALS.
6. IF USING TRANSFER METHOD, ACID SHALL BE DELIVERED INTO DOUBLE-WALLED PROPERLY SIZED STORAGE TANK. ACID TANKS SHALL HAVE LOCKING FILL DEVICES (1 1/4" FEMALE CAMLOCK WITH PLUG) TO INSURE ONLY ACID IS LOADED INTO TANK. FILL DEVICE IS UNIQUE TO ACID. THE CHEMICAL SUPPLIER SHALL EQUIP ACID TANKS FOR THE DELIVERY OF BULK ACID WITH ACID FUME SUPPRESSION SYSTEMS. ALL BULK ACID TANKS SHALL BE 100% CONTAINED TO DIRECT ACID FUMES INTO FUME SUPPRESSION TANK.
7. ALL CHEMICALS TO BE STORED PER MANUFACTURER'S RECOMMENDATIONS.
8. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
9. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
10. PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
11. EACH VALVE SHALL BE INSTALLED IN THE EQUIPMENT AREA AND LABELED AS TO ITS PURPOSE PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
12. PER SPECIFICATIONS SECTION 13 11 13, SUBMIT AN ELECTRONIC VERSION OF THE PIPE AND VALVE CHART FOR EACH PIPING SYSTEM TO THE ARCHITECT/ENGINEER FOR APPROVAL. CHART TO CONSIST OF ISOMETRIC DRAWINGS OR PIPING LAYOUTS SHOWING AND IDENTIFYING EACH VALVE AND DESCRIBING ITS FUNCTION. UPON COMPLETION OF THE WORK HANG IN A CONSPICUOUS LOCATION IN THE EQUIPMENT ROOM ONE (1) COPY OF EACH CHART TO A RIGID BACKBOARD WITH CLEAR LACQUER PLACED UNDER GLASS AND FRAMED.

PIPING NOTES

REFER TO DIVISION 13 SPECIFICATIONS FOR DETAILS

PIPING

A. ALL PIPING SHALL BE IN ACCORDANCE WITH THE COLORADO STATE PLUMBING CODE, COLORADO DEPARTMENT OF PUBLIC HEALTH CODE, THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
B. ALL PIPING DESIGNED FOR 6'/SECOND MAX SUCTION VELOCITY AND 8'/SECOND MAXIMUM PRESSURE VELOCITY.
C. MAIN DRAIN PIPING AND GUTTER PIPING ARE DESIGNED TO CARRY MINIMUM 100% OF THE RECIRCULATION RATE.
D. ALL PIPING MUST BE LAID ON A GRADE SO IT WILL DRAIN COMPLETELY BY GRAVITY TO PREVENT DAMAGE DURING FREEZING WEATHER. MAIN DRAIN LINE PIPING MUST BE LAID ON A GRADE SO THAT (A) ALL PIPING FROM BENEATH THE POOL TO THE ELEVATION CHANGE SHALL PITCH TO DRAIN TO THE POOL MAIN DRAIN SUMPS AND; (B) ALL PIPING FROM THE ELEVATION CHANGE TO THE SURGE TANK SHALL PITCH TO DRAIN TO THE SURGE TANK.
E. IN ALL INSTANCES WHERE GRAVITY DRAINAGE IS NOT PROVIDED THE CONTRACTOR SHALL INSTALL DRAIN VALVES SO THAT ALL LINES CAN BE DRAINED COMPLETELY TO SURGE TANK OR ANOTHER APPROVED LOCATION. DRAINAGE PLUGS SHALL BE PROVIDED IN THE PIPING SYSTEM TO ALLOW WINTERIZATION OF THE POOL PIPING.
F. CONTRACTOR SHALL PROVIDE OPERATION, FILLING, EMPTYING, WINTERIZATION, AND START-UP INSTRUCTIONS TO OWNER.
G. ALL ELEVATIONS TO BE FIELD VERIFIED FOR PROPER PITCH AND DRAINAGE. PITCH TO BE APPROXIMATELY 1"/10'-0".
H. POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE FITTING QUANTITY TO REDUCE TOTAL DYNAMIC HEAD.
I. ALL DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL LOCATIONS SHALL BE FIELD VERIFIED WITH ALL OTHER TRADES, BY CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, PLUMBING, AND CIVIL DRAWINGS.

DRAINS

A. ALL OVERFLOW AND MAIN DRAIN GRATING SYSTEMS ARE DESIGNED TO CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 1.5'/SECOND THROUGH THE OPEN AREA OF THE GRATE.
B. OPEN AREA OF THE DRAIN GRATE SHALL BE AT LEAST FOUR TIMES THE AREA OF THE MAXIMUM CONNECTION SUCTION PIPE.
C. ALL SUBMERGED DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.
D. FILTER DRAIN/BACKWASH LINE, POOL DRAIN LINE, SURGE TANK DRAIN LINE, AND SURGE TANK OVERFLOW LINE TO DISCHARGE TO SEWER WITH AN AIR GAP COMPLIANT WITH LOCAL REQUIREMENTS.

GAUGES:

A. COMPOUND GAUGES TO BE INSTALLED ON ALL PUMP SUCTION AND DISCHARGE LINES.

VALVES:

A. PROVIDE GEAR-OPERATED SUBSURFACE BUTTERFLY VALVES WITH VALVE STEM EXTENSIONS FOR ALL POOL AND SURGE TANK DRAIN LINES.
B. EACH VALVE SHALL HAVE A PERMANENT IDENTIFYING LABEL OR TAG ATTACHED TO IT. THE SEQUENCE OF OPERATION, BRIEFLY STATED, SHALL BE PROMINENTLY DISPLAYED.

FLOW METERS:

A. FLOW METERS SHALL BE PROVIDED IN THE FILTRATION PUMP DISCHARGE LINE AND IN EACH INLET RETURN LINE, AS INDICATED ON THE DRAWINGS.
B. UNINTERRUPTED FLOW SHALL BE PROVIDED TO THE FLOWMETER BY INSTALLING THEM ON STRAIGHT LENGTHS OF PIPE WITHOUT ANY VALVES, ELBOWS, OR OTHER SOURCES OF TURBULENCE WITHIN MINIMUM 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF THE FLOW METERS OR INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
C. MAIN FLOW METER SHALL BE USED TO MONITOR BACKWASH RATE UNLESS OTHERWISE INDICATED IN THE DESIGN DRAWINGS.

FILTERS:

A. FILTERS SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTE DISCHARGE LINE (SAND) OR PRECOAT LINE (RM), AN AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER, AND A VALVED TANK DRAIN LINE.

HEATING SYSTEM:

A. SHALL BE EQUIPPED WITH THERMOMETERS MEASURING 80-240 DEGREES F WITH 2 DEGREE GRADUATIONS, AUTOMATIC TEMPERATURE LIMITING DEVICE, FLOW SWITCH, AND HEAT BYPASS VALVE.
B. ALL INFLUENT AND EFFLUENT HOT WATER PIPING TO BE PROVIDED WITH MATERIAL AS SCHEDULED.
C. POOL HEATER PRESSURE RELIEF VALVE TO BE PROVIDED AND PIPED WITHIN 6" OF FLOOR.
D. THE AUTOMATIC TEMPERATURE SWITCH ON THE BLENDED WATER SYSTEM SHALL BE SET FOR A MAXIMUM OF 110 DEGREES F.
E. FURNISH AND INSTALL THERMOMETERS IN HEATER INFLUENT AND EFFLUENT PIPING AND DOWNSTREAM IN THE BLENDED WATER SYSTEM.
F. HEATER THERMOSTAT SHALL BE INACCESSIBLE TO BATHERS.
G. VENTING OF COMBUSTION/VENTILATION AIR FOR GAS, OR OTHER FUEL-BURNING WATER HEATERS SHALL BE PROVIDED AS REQUIRED BY THE HEATER MANUFACTURER.
H. IF HIGH EFFFICIENCY HEATERS (BOILER AND SIDE HEAT EXCHANGERS ON A SKID) ARE INSTALLED, PROVIDE 1" WATER DOMESTIC SUPPLY WITH PRESSURE REDUCING VALVE.

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COLORADO LICENSED
BRIAN W. FRENCH
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number: 25204.02
Issue: 100% CD SET
Date: 03/26/2026
Drawn By: MDG
Checked By: JRB

Revisions:

Description	Date:

Sheet title:
MECHANICAL NOTES

PL301

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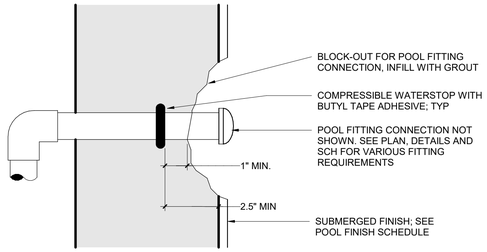
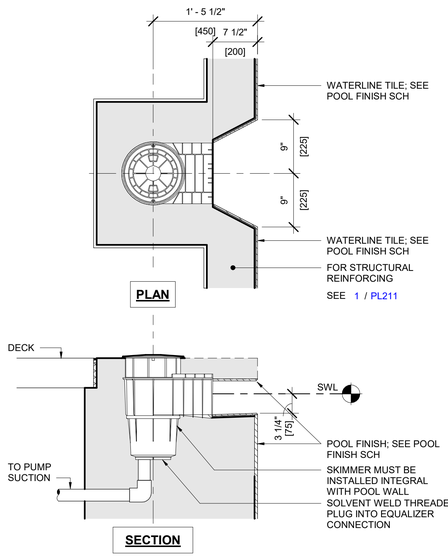


FLOOR / WALL SECTION

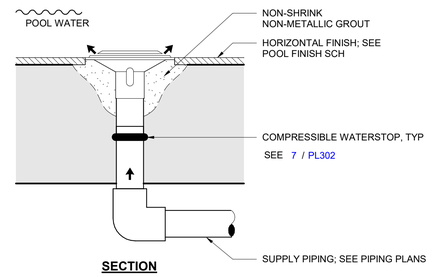
NOTES:
1. DETAIL ILLUSTRATES COMPRESSIBLE WATERSTOP FOR PIPE PENETRATIONS THROUGH POOL SHELL. SEE PIPING PLANS AND DETAILS FOR APPLICABLE INSTALLATION LOCATIONS.
2. BASIS OF DESIGN FOR 6" OD PIPES OR LARGER IS TYPE KBA-1510FP COMPRESSIBLE WATERSTOP BY ADEKA. FOR PIPES SMALLER THAN 6" OD USE SYNKOFLEX FLEXIBLE WATERSTOP. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER.
3. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
4. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
5. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.
6. STEEL REINFORCEMENT OMITTED FOR CLARITY. SEE STRUCTURAL DETAILS FOR TYPICAL WALL/FLOOR REINFORCING STEEL REQUIREMENTS AND STEEL REQUIREMENTS AROUND PIPE PENETRATIONS. SPACING BETWEEN REINFORCING STEEL AND WATERSTOP SHALL BE NO LESS THAN 1.5xDIAMETER OF THE LARGEST AGGREGATE IN THE APPROVED CONCRETE MIX. INSTALL WATERSTOP ON POOL FINISH SIDE OF REINFORCING STEEL.

7 PL302 | WATERSTOP DETAIL - TYPICAL POOL PIPE PENETRATION
DETAIL VIEW
NOT TO SCALE



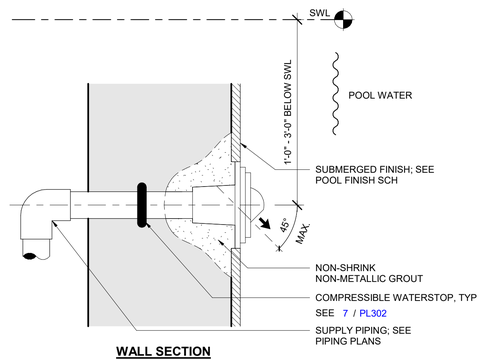
SKIMMER SPECIFICATIONS:
1. SURFACE SKIMMER SHALL CONSIST OF A PRECISION MOLDED CYCOLAC HOUSING WITH A HEAVY DUTY COMPRESSION MOLDED THERMOSETTING PHENOLIC BASE.
2. THE BASE SHALL INCORPORATE TWO 2" NPT THREADED APERTURE WHICH SHALL ENABLE TESTING OF PIPING FROM INSIDE THE SKIMMER AS WELL AS EXTERNAL PIPE CONNECTIONS TO PUMP. BASE SHALL BE AN INTEGRAL PART OF THE SKIMMER BODY.
3. A 10" DIA NON-CORROSIVE, HEAVY DUTY, NON-SLIP DECK PLATE & FRAME SHALL BE PROVIDED FOR EASY ACCESS TO THE SKIMMER INTERIOR. THE FRAME SHALL BE MOLDED CYCOLAC & SHALL INCORPORATE A FLANGE BELOW DECK LEVEL FOR KEYING INTO CONCRETE & SHALL BE ADJUSTABLE TO PERMIT VARIATIONS IN HEIGHT & ANGLE OF DECK IN RELATION TO THE SKIMMER BODY. THE ACCESS PLATE SHALL BE MOLDED CYCOLAC & SHALL BE SECURED TO THE FRAME BY MEANS OF TWO SS SCREWS TO PREVENT VANDALISM.
4. THE SKIMMER THROAT SHALL HAVE AN INTEGRAL MOLDED WEIR STOP WITH A CUSHION ATTACHED. THE SKIMMER THROAT SHALL BE WITH AN 8" WIDE HEAVY DUTY MOLDED WEIR & HINGE WHICH AUTOMATICALLY ADJUSTS TO VARIATIONS IN POOL WATER LEVEL, WITHIN A 4" RANGE.
5. A REMOVABLE 7 1/2" DIA x 5 1/8" DEEP SYNTHETIC DEBRIS BASKET SHALL BE PROVIDED IN THE SKIMMER BODY.
6. A REMOVABLE FLOAT VALVE HOUSING ASSEMBLY SHALL BE REMOVED & DISCARDED.
7. AN ADJUSTABLE TRIMMER VALVE SHALL BE FITTED TO THE SKIMMER BASE TO PROVIDE AN ACCURATE FLOW ADJUSTMENT, THUS PERMITTING EQUALIZATION OF FLOW OF ALL SKIMMERS.
8. SURFACE SKIMMER SHALL BE COMMERICAL RENEGADE GUNITE IN-GROUND SKIMMER WITH NSF50 APPROVAL FOR 75 GPM FLOW RATE MANUFACTURED BY WATERWAY PLASTICS, CATALOG #540-6350. MATERIALS: MOLDED PVC PLASTIC SKIMMER WITH ROUND WHITE LID & FRAME, 2.5" SPIGOT x 2" NPT x 2" NPT CONNECTIONS, FLOAT/CHECK VALVE AND REMOVABLE CLEANING BASKET. PLUG EQUALIZER FITTING CONNECTION.

8 PL302 | SKIMMER PIPING
DETAIL VIEW
NOT TO SCALE



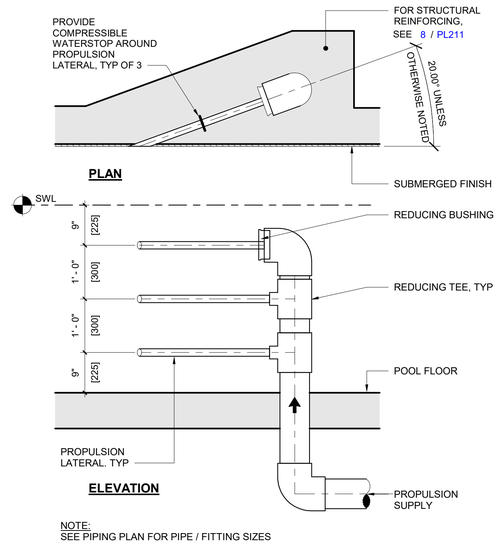
NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW

4 PL302 | FLOOR INLET
DETAIL VIEW
NOT TO SCALE



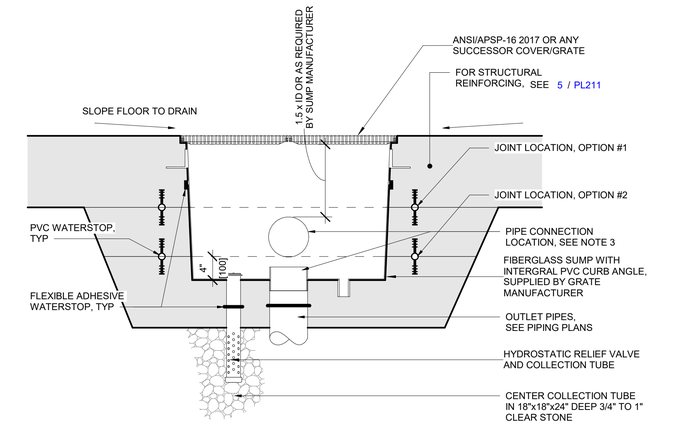
NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW

5 PL302 | WALL INLET
DETAIL VIEW
NOT TO SCALE



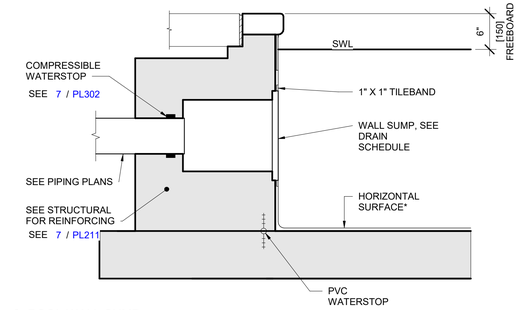
NOTE:
SEE PIPING PLAN FOR PIPE / FITTING SIZES

6 PL302 | PROPULSION STATION - 3 POINT
DETAIL VIEW
NOT TO SCALE

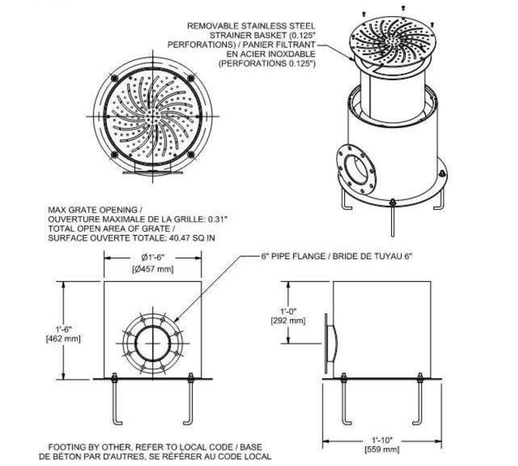


NOTES:
1. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD. VERIFY GRATE DIMENSIONS AND OUTLET REQUIREMENTS WITH GRATE/SUMP MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWINGS.
2. THE FIBERGLASS SUMP SHALL BE SUPPLIED WITH THE GRATE AS INDICATED IN THE DRAIN SCH. SUMP MATERIALS SHALL MEET OR EXCEED THE SCHEDULED MANUFACTURER'S SPECIFICATION: 8 OZ. FIBERGLASS MAT WITH MARINE GRADE WHITE GELCOAT AND 2" MINIMUM FRP WATERSTOP AROUND THE OUTSIDE PERIMETER.
3. AT CONTRACTOR'S OPTION, SUMP MAY HAVE BOTTOM OR SIDE OUTLET PIPE CONNECTION.
4. CONTRACTOR SHALL INCLUDE ALL POOL DRAIN/WINTERIZATION PIPE CONNECTIONS AS SHOWN ON PIPING DRAWINGS.
5. ALL SUMPS REQUIRE A MINIMUM OF ONE HYDROSTATIC RELIEF PORT AND 2" VALVE. (HAYWARD MODEL SP1056) WITH COLLECTION TUBE PER SUMP, UNLESS OTHERWISE NOTED. VERTICALLY INSTALLED SUMPS, ELEVATED POOLS AND/OR POOLS CONSTRUCTED ON A VOID FORM DO NOT REQUIRE A HYDROSTATIC RELIEF VALVE SYSTEM. UNUSED HYDROSTATIC PORTS SHALL BE PLUGGED.
6. SEE DRAIN SCHEDULE AND PIPE PLANS.
7. SECURE ALL GRATING TO DRAIN SUMP WITH CORROSION RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. FASTENERS SHALL NOT BE REMOVABLE WITHOUT THE USE OF A TOOL AND SHALL MEET ALL CURRENT ANSI/APSP/ICC-16 REQUIREMENTS. INSPECT ALL GRATING AND EACH FASTENER TO ASSURE THEY ARE IN PLACE AND PROPERLY SECURED PRIOR TO OPENING THE POOL FOR PUBLIC USE.
8. PROTECT DRAIN FROM EXTERNAL PRESSURE DURING INSTALLATION.
9. PROVIDE A REMOVABLE PLYWOOD AND A REUSABLE 1/4" PVC TOP COVER PROTECTOR WITH STAINLESS STEEL HARDWARE TO SHIELD THE INTERNALS OF EACH DRAIN SUMP FROM DEBRIS DURING CONSTRUCTION AND FOR FUTURE OWNER USE DURING WINTERIZATION AND/OR SHUTDOWN.
10. SUPPLY EACH SUMP CONNECTION PORT WITH A THREADED OR FLANGED ADAPTOR CONNECTION INSIDE THE SUMP. INCLUDE CORRESPONDING THREADED/FLANGED ADAPTOR PLUGS/FITTINGS AND STAINLESS STEEL HARDWARE FOR THE PURPOSES OF 50 PSI PRESSURE TESTING AND FUTURE WINTERIZATION AND/OR SHUTDOWN.
11. LOCATE ONE HORIZONTAL JOINT WITH CONTINUOUS PVC WATERSTOP IN THE CONCRETE SUMP AT EITHER LOCATION SHOWN ABOVE (OPTION #1 OR OPTION #2). INSTALL FLEXIBLE ADHESIVE WATERSTOPS AROUND THE FIBERGLASS SUMP AND EACH CONNECTING PIPE, PER SPECIFICATIONS.

1 PL302 | MAIN DRAIN - DALDORADO
DETAIL VIEW
NOT TO SCALE



2 PL302 | POOL WALL SUMP
DETAIL VIEW
NOT TO SCALE



3 PL302 | MAIN DRAIN - WATERPLAY
DETAIL VIEW
NOT TO SCALE

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COLORADO LICENSED
BRIAN W. FRIEBEL
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:

GENERAL PIPING DETAILS

PL302

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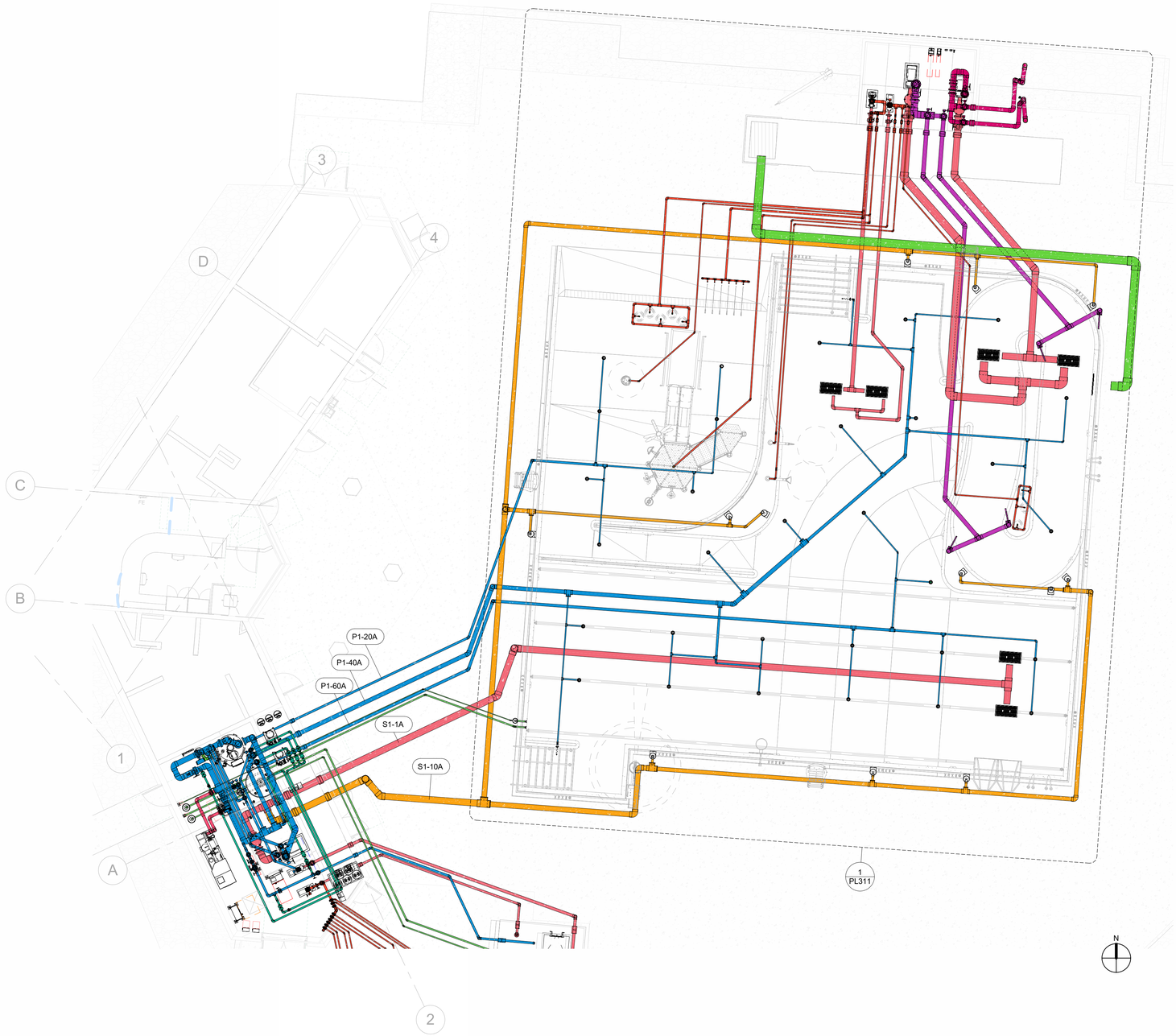
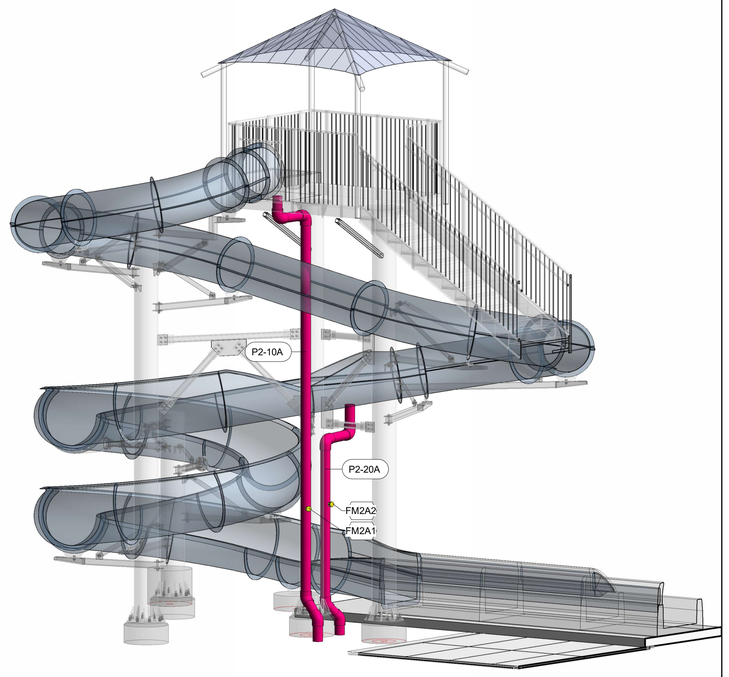


1 PL310 OVERALL LEISURE POOL PIPING PLAN
PLAN VIEW
1/8" = 1'-0"



2 PL310 SLIDE PIPING

POOL A - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - SKIMMER
	-	-	-	-	-
P1-20A	PVC SCH 80	3	126	6.3	INLET SUPPLY (60 MIN TO)
P1-40A	PVC SCH 80	6	488	6.1	INLET SUPPLY (120 MIN TO)
P1-60A	PVC SCH 80	4	189	5.4	INLET SUPPLY (240 MIN TO)
	-	-	-	-	-
P2-10A	PVC SCH 80	6	500	6.3	SLIDE SUPPLY AT ENTRY
P2-20A	PVC SCH 80	6	400	5.0	SLIDE SUPPLY AT TRANSITION
	-	-	-	-	-

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POOL A - LEISURE POOL PIPING PLAN

PL310

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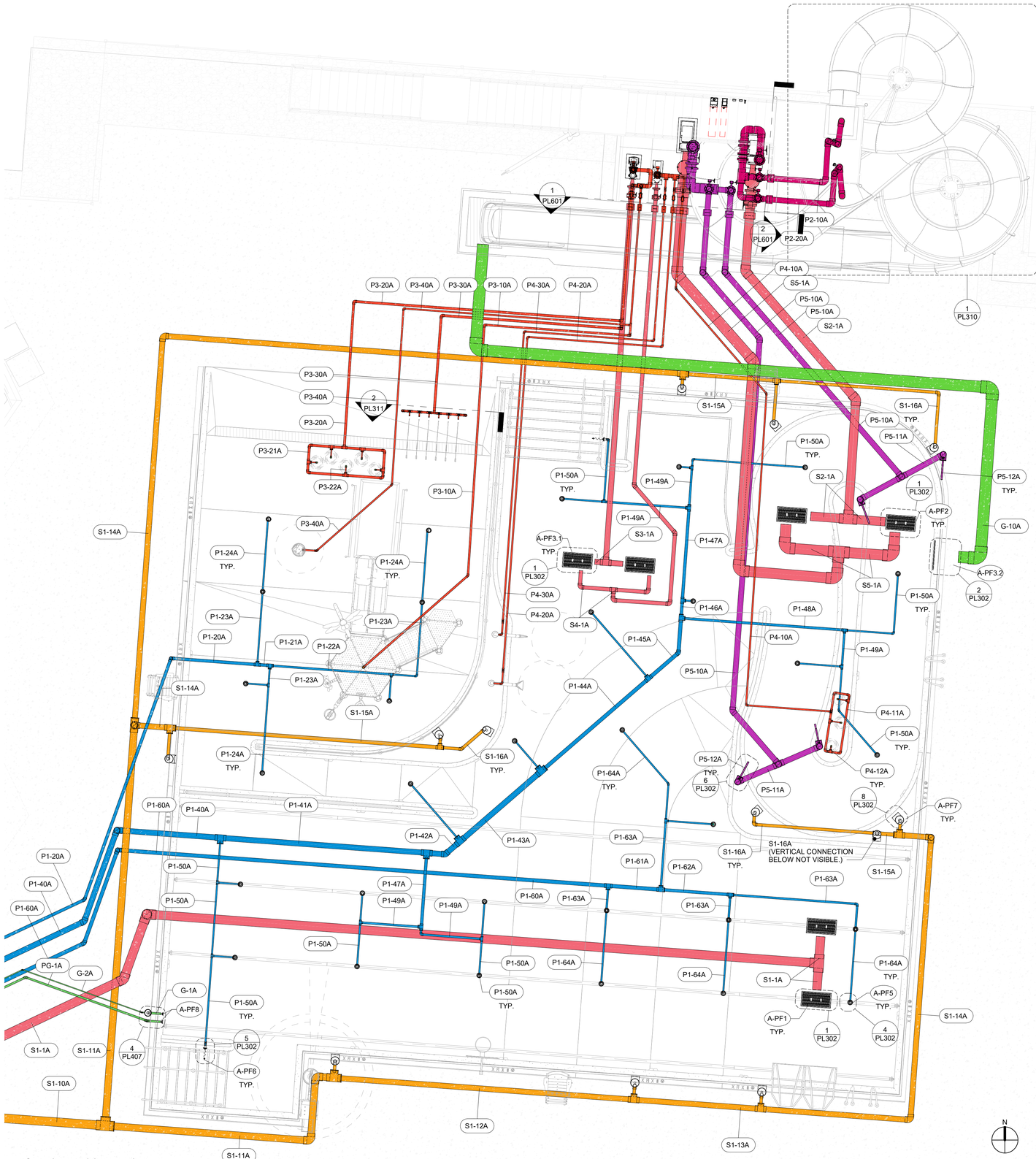
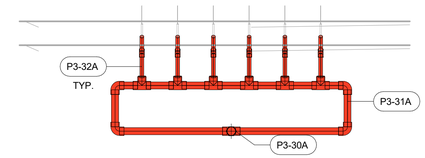


1 | PL311 LEISURE POOL PIPING PLAN
PLAN VIEW
3/16" = 1'-0"

POOL A - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - SKIMMER
S1-11A	PVC SCH 80	8	402	2.9	FILTRATION PUMP SUCTION - SKIMMER
S1-12A	PVC SCH 80	6	335	4.2	FILTRATION PUMP SUCTION - SKIMMER
S1-13A	PVC SCH 80	6	268	3.4	FILTRATION PUMP SUCTION - SKIMMER
S1-14A	PVC SCH 80	6	201	2.5	FILTRATION PUMP SUCTION - SKIMMER
S1-15A	PVC SCH 80	4	134	3.8	FILTRATION PUMP SUCTION - SKIMMER
S1-16A	PVC SCH 80	3	67	3.3	FILTRATION PUMP SUCTION - SKIMMER CONNECTION, TYP OF 11
	-	-	-	-	-
P1-20A	PVC SCH 80	3	126	6.3	INLET SUPPLY (60 MIN TO)
P1-21A	PVC SCH 80	3	90	4.5	INLET SUPPLY (60 MIN TO)
P1-22A	PVC SCH 80	2	54	6.0	INLET SUPPLY (60 MIN TO)
P1-23A	PVC SCH 80	1.5	36	6.8	INLET SUPPLY (60 MIN TO)
P1-24A	PVC SCH 80	1.5	18	3.4	INLET SUPPLY CONNECTION (60 MIN TO), TYP OF
	-	-	-	-	-
P1-40A	PVC SCH 80	6	488	6.1	INLET SUPPLY (120 MIN TO)
P1-41A	PVC SCH 80	6	407	5.1	INLET SUPPLY (120 MIN TO)
P1-42A	PVC SCH 80	6	298	3.7	INLET SUPPLY (120 MIN TO)
P1-43A	PVC SCH 80	6	271	3.4	INLET SUPPLY (120 MIN TO)
P1-44A	PVC SCH 80	4	244	7.0	INLET SUPPLY (120 MIN TO)
P1-45A	PVC SCH 80	4	217	6.2	INLET SUPPLY (120 MIN TO)
P1-46A	PVC SCH 80	3	136	6.7	INLET SUPPLY (120 MIN TO)
P1-47A	PVC SCH 80	3	108	5.4	INLET SUPPLY (120 MIN TO)
P1-48A	PVC SCH 80	2.5	81	6.3	INLET SUPPLY (120 MIN TO)
P1-49A	PVC SCH 80	2	54	6.1	INLET SUPPLY (120 MIN TO)
P1-50A	PVC SCH 80	1.5	27	5.1	INLET SUPPLY CONNECTION (120 MIN TO), TYP OF 14
	-	-	-	-	-
P1-60A	PVC SCH 80	4	189	5.4	INLET SUPPLY (240 MIN TO)
P1-61A	PVC SCH 80	4	142	4.0	INLET SUPPLY (240 MIN TO)
P1-62A	PVC SCH 80	3	95	4.7	INLET SUPPLY (240 MIN TO)
P1-63A	PVC SCH 80	2	47	5.3	INLET SUPPLY (240 MIN TO)
P1-64A	PVC SCH 80	1.5	24	4.4	INLET SUPPLY CONNECTION (240 MIN TO), TYP OF 5
	-	-	-	-	-
S2-1A	PVC SCH 80	10	900	4.1	SLIDE SUCTION
	-	-	-	-	-
P2-10A	PVC SCH 80	6	500	6.3	SLIDE SUPPLY AT ENTRY
P2-20A	PVC SCH 80	6	400	5.0	SLIDE SUPPLY AT TRANSITION
	-	-	-	-	-
S3-1A	PVC SCH 80	6	222	2.8	ZDE FEATURES SUCTION
	-	-	-	-	-
P3-10A	PVC SCH 80	2	46	5.1	PLAYSTRUCTURE SUPPLY
P3-20A	PVC SCH 80	2.5	85	6.6	ZDE GEYSER SUPPLY
P3-21A	PVC SCH 80	2.5	85	6.6	ZDE GEYSER SUPPLY LOOP
P3-22A	PVC SCH 80	1	17	7.9	ZDE GEYSER SUPPLY CONNECTION, TYP OF 5
P3-30A	PVC SCH 80	2.5	90	7.0	ZDE DECK SPRAY SUPPLY
P3-31A	PVC SCH 80	2.5	90	7.0	ZDE DECK SPRAY SUPPLY LOOP
P3-32A	PVC SCH 80	1	15	7.0	ZDE DECK SPRAY SUPPLY,
P3-40A	PVC SCH 80	1.5	1	0.2	FS FLUTTERBY SUPPLY
	-	-	-	-	-
S4-1A	PVC SCH 80	4	107	3.0	RIVER FEATURE SUCTION
	-	-	-	-	-
P4-10A	PVC SCH 80	2	51	5.7	RIVER GEYSER SUPPLY
P4-11A	PVC SCH 80	2	51	5.7	RIVER GEYSER SUPPLY LOOP
P4-12A	PVC SCH 80	1	17	7.9	RIVER GEYSER SUPPLY CONNECTION, TYP OF 5
P4-20A	PVC SCH 80	1.5	30	5.6	FS RESTORATIVE SPRAY 1 SUPPLY
P4-30A	PVC SCH 80	1.5	26	4.9	FS RESTORATIVE SPRAY 2 SUPPLY
	-	-	-	-	-
S5-1A	PVC SCH 80	12	1,200	3.8	PROPULSION SUCTION
	-	-	-	-	-
P5-10A	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P5-11A	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P5-12A	PVC SCH 80	1.25	100	25.9	PROPULSION SUPPLY LATERAL, TYP OF 3
	-	-	-	-	-
PG-10A	PVC SCH 40	14	900	2.2	SLIDE DRAIN PIPING
	-	-	-	-	-
PG-1A	PVC SCH 40	2	39	3.8	FILL LINE
G-1A	PVC SCH 80	2	0	0.0	SENSOR PIPE
G-2A	PVC SCH 80	0.75	0	0.0	CONDUIT
	-	-	-	-	-



2 | PL311 ZDE DECK SPRAY PIPING
SECTION VIEW
1/2" = 1'-0"

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BRIAN W. FREIBERT
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

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POOL A - LEISURE POOL PIPING PLAN

PL311

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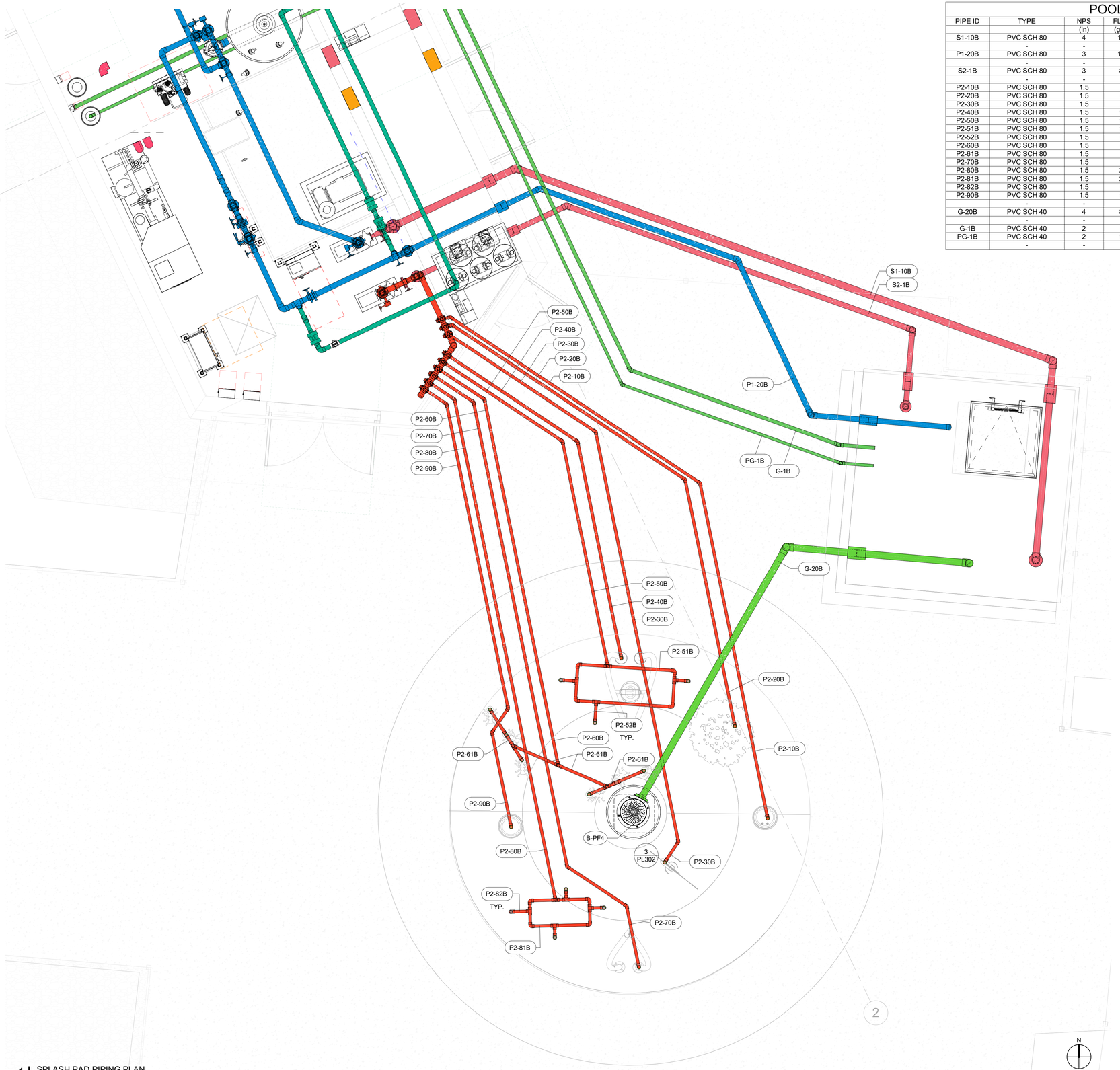

1 PL320 SPLASH PAD PIPING PLAN
PLAN VIEW
3/8" = 1'-0"

POOL B - SPLASH PAD PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-10B	PVC SCH 80	4	134	3.8	FILTRATION PUMP SUCTION - SURGE TANK
	-	-	-	-	-
P1-20B	PVC SCH 80	3	134	6.7	SURGE TANK INLET SUPPLY
	-	-	-	-	-
S2-1B	PVC SCH 80	3	81	4.0	ACTIVITY SUCTION
	-	-	-	-	-
P2-10B	PVC SCH 80	1.5	1	0.2	FUN GUY 1 SUPPLY
P2-20B	PVC SCH 80	1.5	6	1.1	ANETH BLOOM 1 SUPPLY
P2-30B	PVC SCH 80	1.5	3	0.6	CORN POPPY SUPPLY
P2-40B	PVC SCH 80	1.5	10	1.9	DEW DROP SUPPLY
P2-50B	PVC SCH 80	1.5	18	3.4	STRAIGHT UP GS SUPPLY
P2-51B	PVC SCH 80	1.5	18	3.4	STRAIGHT UP GS SUPPLY LOOP
P2-52B	PVC SCH 80	1.5	6	1.1	STRAIGHT UP GS SUPPLY CONNECTION, TYP OF 3
P2-60B	PVC SCH 80	1.5	6	1.1	ANTS GS SUPPLY
P2-61B	PVC SCH 80	1.5	3	0.6	ANTS GS SUPPLY CONNECTION, TYP OF 2
P2-70B	PVC SCH 80	1.5	3	0.6	MORNING GRASS 1 SUPPLY
P2-80B	PVC SCH 80	1.5	24	4.5	TULIP GS SUPPLY
P2-81B	PVC SCH 80	1.5	24	4.5	TULIP GS SUPPLY LOOP
P2-82B	PVC SCH 80	1.5	6	1.1	TULIP GS SUPPLY CONNECTION, TYP OF 4
P2-90B	PVC SCH 80	1.5	10	1.9	FUN GUY 3 SUPPLY
	-	-	-	-	-
G-20B	PVC SCH 40	4	81	2.1	DRAIN PIPING
	-	-	-	-	-
G-1B	PVC SCH 40	2	0	0.0	SENSOR
PG-1B	PVC SCH 40	2	16	1.6	FILL LINE
	-	-	-	-	-

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POOL B - SPLASH PAD PIPING PLAN

PL320

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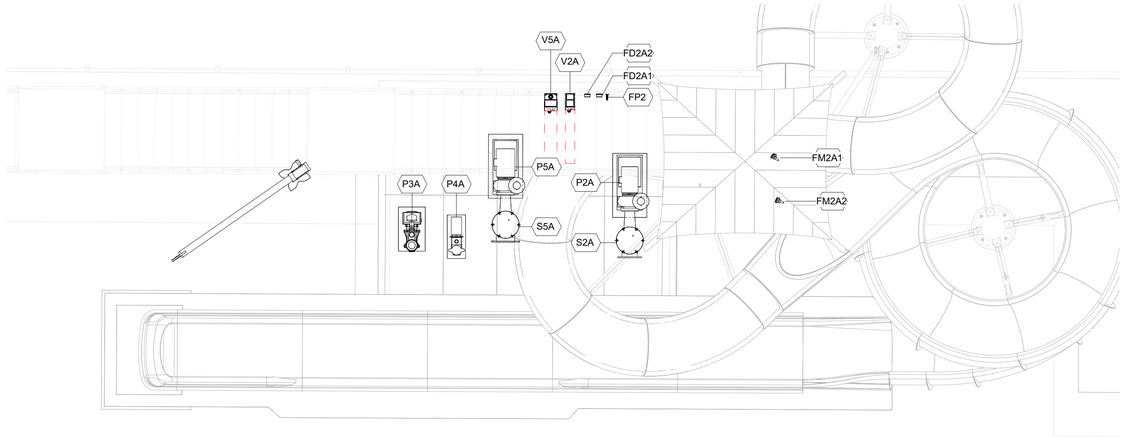
POOL B-SPLASH PAD DATA

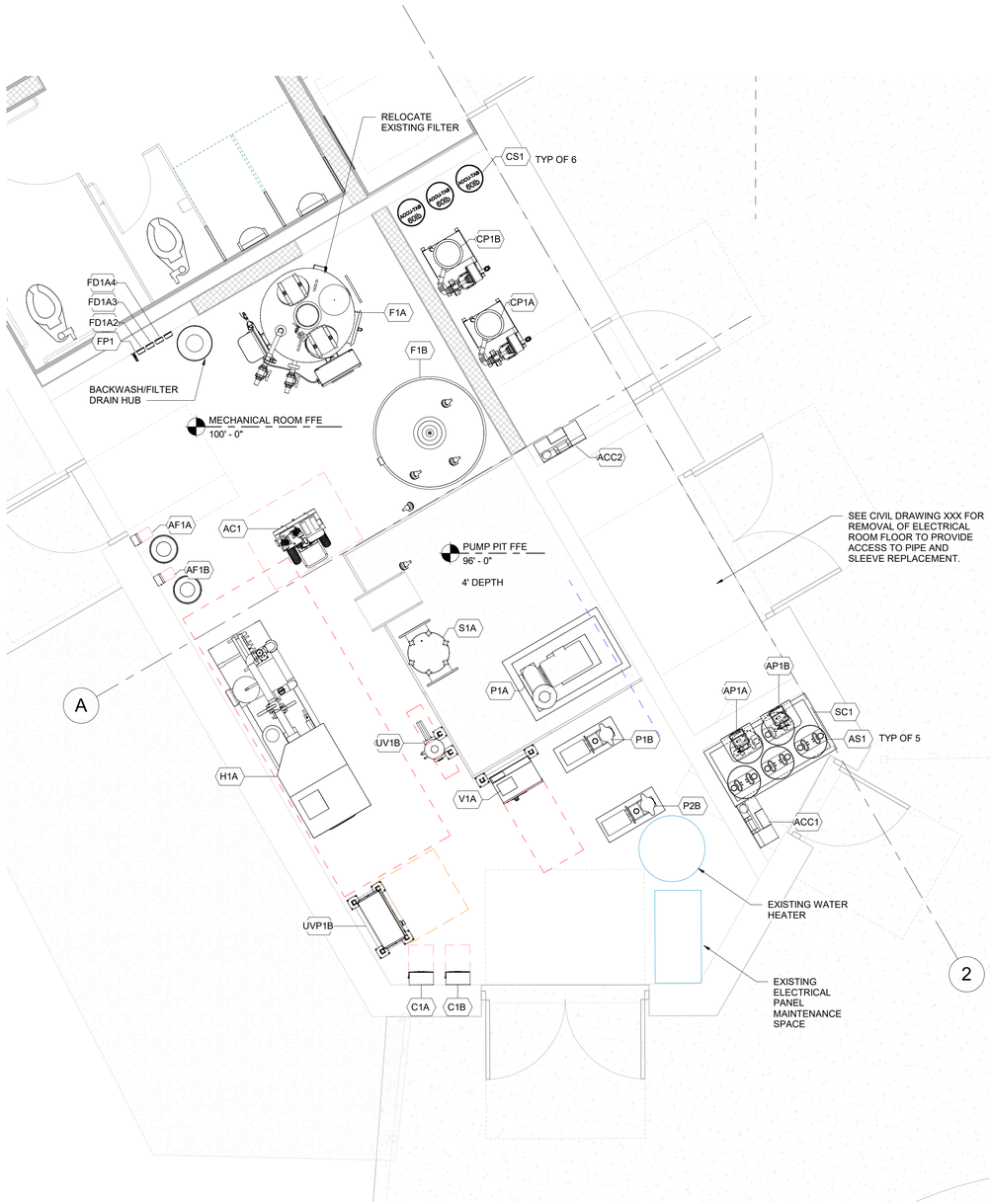
DESCRIPTION	QTY	UNITS
PAD PERIMETER	88	FEET
PAD SURFACE AREA	616	SQUARE FEET
WATER TEMPERATURE	AMBIENT	°F
COLLECTOR TANK OPERATING VOLUME	3,740	GALLONS
CIRCULATION RATE	134	GPM
TURNOVER	28 MIN.	
FILTRATION RATE	11.36	GPM/FT²
BACKWASH FLOW	177	GPM
INTENDED USE	RECREATIONAL	

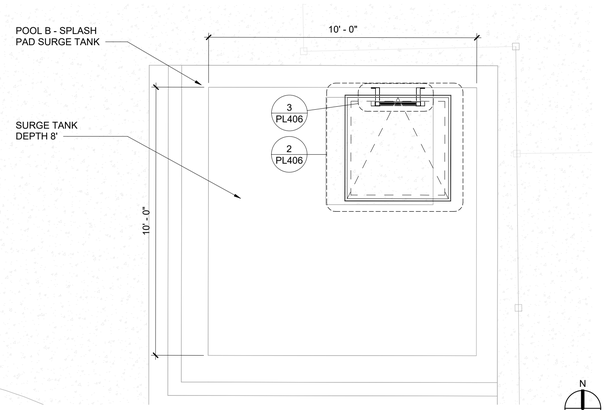
POOL A-LEISURE POOL DATA

DESCRIPTION	QTY	UNITS		
POOL PERIMETER	317	FEET		
WATER SURFACE AREA	4,618	SQUARE FEET		
POOL WATER TEMPERATURE	84	°F		
POOL VOLUME	111,529	GALLONS		
TOTAL VOLUME OF WATER	111,529	GALLONS		
CIRCULATION RATE	803	GPM		
TURNOVER/VOLUME/FLOW	60 MIN.	7,583 GAL.	126	GPM
TURNOVER/VOLUME/FLOW	120 MIN.	58,552 GAL.	488	GPM
TURNOVER/VOLUME/FLOW	240 MIN.	45,394 GAL.	189	GPM
NSF 50 FILTRATION RATE	1.15	GPM/FT²		
FILTER DRAIN RATE	300	GPM		
INTENDED USE	RECREATION			



1 PL400 SLIDE PUMP PIT LAYOUT
PLAN VIEW
1/4" = 1'-0"





2 PL400 MECHANICAL ROOM LAYOUT
PLAN VIEW
3/8" = 1'-0"

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MECHANICAL EQUIPMENT PLAN

PL400

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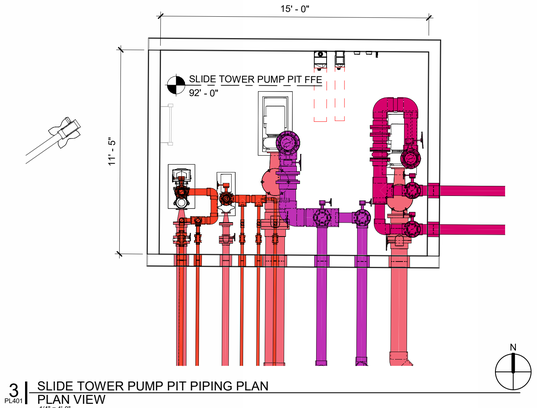
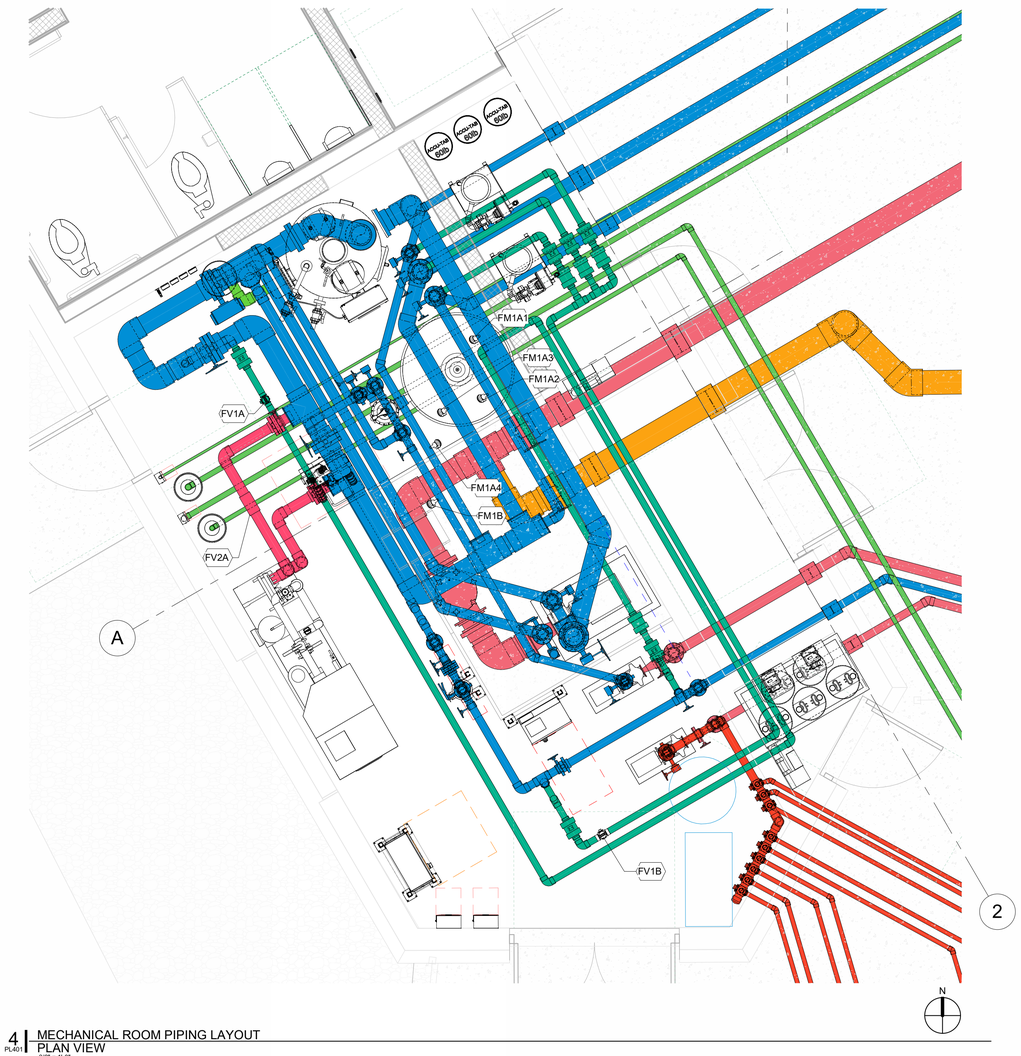
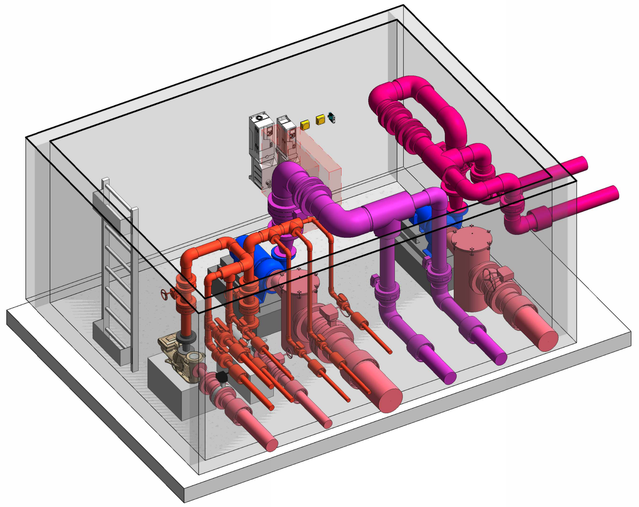


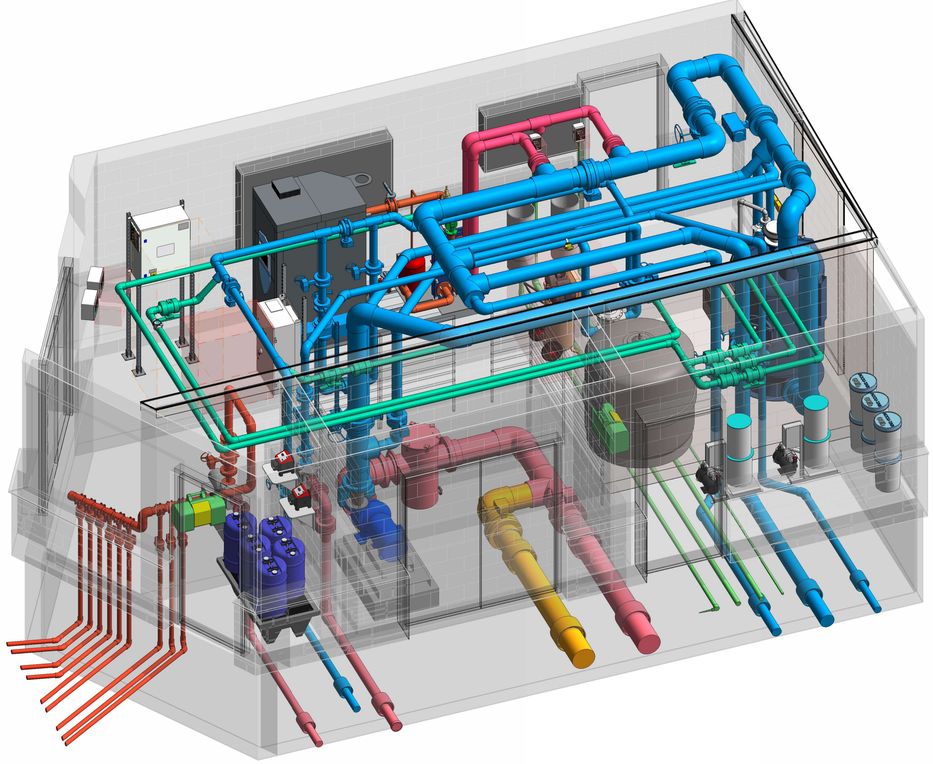
3 PL401 SLIDE TOWER PUMP PIT PIPING PLAN
PLAN VIEW
1/4" = 1'-0"



4 PL401 MECHANICAL ROOM PIPING LAYOUT
PLAN VIEW
3/8" = 1'-0"



1 PL401 SLIDE TOWER PUMP PIT



2 PL401 MECHANICAL ROOM

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MECHANICAL ROOM PIPING PLAN

PL401

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CHEMICAL CONTROLLER SCHEDULE

ID TAG	MANUFACTURER	MODEL	NOTES
C1A	CHEMTROL	PC2100	1,2
C1B	CHEMTROL	PC2100	1,2

1. SEE CHEMICAL CONTROLLER SPECIFICATION SECTION 13 11 37 FOR OPTIONS.
2. INTERLOCK THE CHEMICAL CONTROLLER WITH THE FILTRATION PUMP TO DISABLE ALL CHEMICAL FEEDING WHEN PUMP IS OFF, LOSES POWER, OR IS IN BACKWASH MODE. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

CHLORINE FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	CALCIUM HYPOCHLORITE MAXIMUM OUTPUT (LB/DAY)	NOTES
CP1A	A	WESTLAKE CHEMICAL	POWERBASE 1030	67.2	1,2,3
CP1B	B	WESTLAKE CHEMICAL	POWERBASE 1030	67.2	1,2,3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE ACCU-TAB BLUE SI TABLETS (CALCIUM HYPOCHLORITE) FOR DISINFECTANT.
3. SEE SPECIFICATIONS SECTION 13 11 37.

pH FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	ACID MAXIMUM OUTPUT (GAL/DAY)	NOTES
AP1A	A	BLUE-WHITE	A1A4-7T	0.01-100	1,2,3
AP1B	B	BLUE-WHITE	A1A4-7T	0.01-100	1,2,3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE MURIATIC OR SULFURIC ACID FOR pH CONTROL. BASIS OF DESIGN IS A PERISTALTIC PUMP WITH TUBE FAILURE LEAK DETECTION. PROVIDE WITH WEIGHTED FOOT STRAINER AND HDPE WALL MOUNT BRACKET (MODEL#: KIT-PSM).
3. SEE SPECIFICATIONS SECTION 13 11 37.

STORAGE SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	MODEL	STORAGE QTY	CAPACITY EACH (GALLONS)	CAPACITY EACH (LBS/BUCKETS)	SIZE		NOTES
							DIAMETER	HEIGHT	
AS1	A,B	CHEMICAL SUPPLIER	15 GALLON CARBOY	5	15		1' - 2 1/2"	2' - 2 1/2"	1,3,4
CS1	A,B	WESTLAKE	ACCU-TAB	6		60 LB	1' - 0 1/2"	1' - 6 1/2"	2,3,4

1. PRIMARY pH CONTROL: 15 GALLON CARBOYS OF MURIATIC ACID PROVIDED BY OWNER'S CHEMICAL SUPPLIER.
2. PRIMARY DISINFECTION: BUCKETS OF CALCIUM HYPOCHLORITE PROVIDED BY OWNER'S CHEMICAL SUPPLIER.
3. ALL CHEMICALS ARE PROVIDED BY OWNER'S CHEMICAL SUPPLIER/S. CONTAINER SIZES ARE BASED ON AN APPROXIMATE 2-WEEK STORAGE ESTIMATE. COORDINATE DELIVERY AND STORAGE REQUIREMENTS WITH OWNER & SUPPLIER PRIOR TO ORDERING CONTAINERS.
4. SEE SPECIFICATIONS SECTION 13 11 37.

SPILL CONTAINMENT SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	QUANTITY	HEIGHT	LENGTH	WIDTH	NOTES
SC1	A,B	GRAINGER, ULTRATECH INTERNATIONAL	1	1' - 4 1/2"	4' - 5"	2' - 5"	1,2

1. MOLDED, ONE-PIECE POLYETHYLENE CONTAINMENT, MINIMUM 66-GALLON CAPACITY, TWO DRUM PALLET, MIN 3,000 LB LOAD CAPACITY, MATERIAL SHALL BE RATED AS SUITABLE FOR USE WITH CHEMICAL STORED. CONFORMANT TO ASTM D1998.
2. FIELD VERIFY ACID ROOM DIMENSIONS TO CONFIRM SPILL CONTAINMENT PALLET WILL FIT.

AUTOFILL SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	MAIN POOL FILL LINE			POOL AUTO FILL BY-PASS LINE			NOTES
				MIN FILL RATE (GPM)	POOL FILL TIME (HR)	VALVE SIZE (IN)	MIN FILL RATE (GPM)	1" FILL TIME (HRS)	VALVE SIZE (IN)	
AF1A	A	AQUATIC CONTROL	ELC-800r DECK WELL	39	48	1 1/2	16	3	1	2,3,4
AF1B	B	AQUATIC CONTROL	ELC-800r WET WELL	16	4	1	2	3	1/2	1,3,4

1. ELC-800r SERIES CONTROLLER, SINGLE SENSING, WET WELL SENSING APPLICATION WITH 100 FEET OF CABLE. PROVIDE WITH BELIMO 2-WAY POTABLE WATER VALVE AND ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY FOR AUTOFILL BY-PASS VALVE.
2. ELC-800r SERIES CONTROLLER, SINGLE SENSING, DECK WELL SENSING APPLICATION WITH 100 FEET OF CABLE. PROVIDE WITH BELIMO 2-WAY POTABLE WATER VALVE AND ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY FOR AUTOFILL BY-PASS VALVE.
3. PROVIDE WITH BELIMO 2-WAY POTABLE WATER VALVE FOR MAIN FILL LINE HIGH LEVEL SHUTOFF VALVE & FOR AUTOFILL BY-PASS VALVE. INCLUDE ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY. SEE BUILDING PLUMBING DRAWINGS TO CONFIRM MAIN FILL LINE PIPE/VALVE SIZE PRIOR TO PLACING ORDER.
4. FILL FLOW RATES AND FILL TIMES SCHEDULED ABOVE ARE ESTIMATES AND MAY VARY DEPENDING ON WATER PRESSURE BUILDING PLUMBING DESIGN. INSTALL AUTOFILL PER MANUFACTURER'S INSTRUCTIONS, INSTALLATION DETAILS, PLUMBING SCHEMATICS, AND POOL ELECTRICAL WIRING DIAGRAMS.

ACCESSORIES SCHEDULE

MECHANICAL ID	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	QTY	NOTES
ACC1	ACID ROOM	HAWS COMPACT PORTABLE GRAVITY FED EYEWASH	HAWS CORPORATION	7501	1	1
ACC2	CHLORINE ROOM	HAWS COMPACT PORTABLE GRAVITY FED EYEWASH	HAWS CORPORATION	7501	1	1

1. MODEL 7501. INCLUDES 9 GALLON POLYETHYLENE TANK WITH ABS PLASTIC EYEWASH HEADS (0.4 GPM FLOW RATE OVER 15 MINUTES), STAINLESS STEEL WALL BRACKET (UNIT MUST BE HUNG). INCLUDE OPTIONAL WATER ADDITIVE, MODEL 9082, BACTERIOSTATIC PRESERVATIVE (ONE BOTTLE PRESERVES UP TO 20 GALLONS FOR UP TO FOUR MONTHS).

ANALOG FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	FM SENSOR LOCATION	FLOWMETER MODEL	SYSTEM DESCRIPTION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FV1A	A	MECHANICAL ROOM	FV-2.5	CHEMICAL LOOP	P1A	2 1/2"	40	1,2
FV2A	A	MECHANICAL ROOM	FV-4	HEATER LOOP	P1A	4"	225	1,2
FV1B	B	MECHANICAL ROOM	FV-2.5	CHEMICAL LOOP	P1B	2 1/2"	40	1,2

1. REFER TO PIPING DRAWINGS TO VERIFY PIPE SIZE FOR FLOWMETER SENSOR.
2. FLOW METER FV- INDICATE THE BASIS OF DESIGN IS A FLOW VIS FLOWMETER/CHECKVALVE.

DIGITAL FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	MANUFACTURER	MODEL	SENSOR LOCATION	SYSTEM DESCRIPTION	DISPLAY ID TAG	DISPLAY LOCATION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	POWER SUPPLY ID TAG	POWER SUPPLY LOCATION	POWER SUPPLY MODEL	NOTES
FM1A1	A	SIGNET	3-2551-P1-12	MECHANICAL ROOM	POOL A - LEISURE POOL FILTRATION	N/A	N/A	P1A	8	803	N/A	N/A	N/A	2,4
FM1A2	A	SIGNET	3-2251-P0-11	MECHANICAL ROOM	POOL A - LEISURE POOL (120 MIN TO) INLET SUPPLY	FD1A2	MECHANICAL ROOM	P1A	6	488	FP1	MECHANICAL ROOM	7310-2024	1,3,5
FM1A3	A	SIGNET	3-2551-P1-11	MECHANICAL ROOM	POOL A - LEISURE POOL (240 MIN TO) INLET SUPPLY	FD1A3	MECHANICAL ROOM	P1A	4	189	FP1	MECHANICAL ROOM	7310-2024	1,3,5
FM1A4	A	SIGNET	3-2251-P0-11	MECHANICAL ROOM	POOL A - LEISURE POOL (60 MIN TO) INLET SUPPLY	FD1A4	MECHANICAL ROOM	P1A	3	126	FP1	MECHANICAL ROOM	7310-2024	1,3,5
FM2A1	A	SIGNET	3-2551-P1-11	ON-SITE	POOL A - SLIDE SUPPLY AT ENTRY	FD2A1	SLIDE TOWER PUMP PIT	P2A	6	500	FP2	SLIDE TOWER PUMP PIT	7310-2024	1,3,5
FM2A2	A	SIGNET	3-2551-P1-11	ON-SITE	POOL A - SLIDE SUPPLY AT TRANSTION	FD2A2	SLIDE TOWER PUMP PIT	P2A	6	400	FP2	SLIDE TOWER PUMP PIT	7310-2024	1,3,5
FM1B	B	SIGNET	3-2251-P0-12	MECHANICAL ROOM	POOL B - SPLASH PAD FILTRATION	N/A	N/A	P1B	4	134	N/A	N/A	N/A	2,3

1. PROVIDE WITH GEORG FISCHER SIGNET FIELD MOUNT FLOW TRANSMITTER DISPLAY (FD#), MODEL #3-9900-1 AND UNIVERSAL MOUNTING KIT MODEL #3-8050, FLOW AND DESCRIPTION TO BE DISPLAYED ON TRANSMITTER.
2. FLOW TO BE DISPLAYED ON VFD.
3. PROVIDE WITH SCH80 PVC-U CLAMP-ON SADDLE. SIGNET MODEL NUMBER PV8S030 (3") PV8S040 (4") PV8S060 (6").
4. PROVIDE WITH IRON STRAP-ON SADDLE. SIGNET MODEL NUMBER IR8S080 (8").
5. PROVIDE POWER SUPPLY WITH NEMA 4X ENCLOSURE.

VFD SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	NOTES
V1A	A	ABB	ACH580-BCR-044A-4-30HP	30	460	3	1,2,4
V2A	A	ABB	ACH580-PDR-023A-4-15HP	15	460	3	1,3,4
V5A	A	ABB	ACH580-PDR-034A-4-25HP	25	460	3	1,3,4

1. PROVIDE WITH UL TYPE 4X ENCLOSURE
2. VFD WITH E-CLIPSE BY-PASS.
3. VFD WITH INPUT DISCONNECT AND FUSES ONLY.
4. SEE SPECIFICATIONS SECTION 13 11 26.

PUMP SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	PUMP TYPE	FLOW (GPM)	TDH (FT)	POWER (HP)	MOTOR SPEED (RPM)	NOTES
P1A	A	AURORA PUMP	5x6x11 - 286JM	FILTRATION	803	80	30	1800	1,3,4
P2A	A	AURORA PUMP	5x6x9.5 - 254JM	SLIDE	900	45	15	1800	1,3
P3A	A	PENTAIR	WHISPERFLOXF VS	ACTIVITY	222	53	5	3450	2,3
P4A	A	PENTAIR	WHISPERFLO VST	ACTIVITY	107	64	2	3450	2,3
P5A	A	AURORA PUMP	5x6x9.5 - 284JM	PROPULSION	1200	60	25	1800	1,3
P1B	B	PENTAIR	WHISPERFLOXF VS	FILTRATION	134	77	5	3450	2,3,4
P2B	B	PENTAIR	WHISPERFLO VST	ACTIVITY	81	76	2	3450	2,3

1. AURORA 3801 CLOSE COUPLED PUMP - TEFC PREMIUM EFFIENCY MOTOR RATED FOR VFD USE. END SUCTION, 316 STAINLESS STEEL IMPELLOR, SLEEVE AND SHAFT, FUSION BONDED EPOXY COATED INTERNAL CAST IRON WETTED PARTS, TEFC PREMIUM EFFICIENCY MOTOR RATED FOR VFD USE, 1800 RPM UNLESS NOTED OTHERWISE. AND WETTED INTERNALS. POWER REQUIRED - 230/460 V, 3 PHASE, 60 HERTZ.
2. PENTAIR PUMPS - TEFC MOTOR, END SUCTION, CLOSED COUPLED, SELF PRIMING. PROVIDE WITH INTEGRAL STRAINER AND EXTRA STRAINER BASKET. POWER REQUIRED FOR WHISPERFLOXF VS - 208-230V, 1 PHASE, 60 HERTZ OR 208-460 V, 3 PHASE, 60 HERTZ. POWER REQUIRED FOR WHISPERFLO VST - 115/208-230 V, 1 PHASE, 60 HERTZ.
3. SEE SPECIFICATIONS SECTION 13 11 25.
4. INTERLOCK THE CHEMICAL CONTROLLER WITH THE FILTRATION PUMP TO DISABLE ALL CHEMICAL FEEDING WHEN PUMP IS OFF, LOSES POWER, OR IS IN BACKWASH MODE. SEE PL501 AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

STRAINER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	INFLUENT (IN)	EFFLUENT (IN)	MAX FLOW RATE	NOTES
S1A	A	NEPTUNE BENSON	10	10	1344	1,2,4
S2A	A	NEPTUNE BENSON	10	6	1220	1,3,4
S5A	A	NEPTUNE BENSON	12	6	1220	1,3,4

1. FIBERGLASS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET, PROVIDE WITH EXTRA STAINLESS STEEL BASKET.
2. PROVIDE WITH ECCENTRIC REDUCING PRECOAT TEE.
3. PROVIDE WITH AN ECCENTRIC REDUCER IN SUCTION PIPING AS SHOWN PER PLAN.
4. SEE SPECIFICATIONS SECTION 13 11 25.

FILTER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	FLOW (GPM)	FILTRATION RATE (GPM/FT2)	BACKWASH/DRAIN FLOW (GPM)	FILTER SIZE					NOTES
							FILTER AREA (FT2)	FILTER TANK VOLUME (GAL)	OPERATING WEIGHT (LB)	DIAMETER (IN)	HEIGHT (IN)	
F1A	A	AQUIFY SYSTEMS	EXISTING PMF-42-700-FRP	803	1.15	300	700	355	3831	42"	83 1/2"	1,4
F1B	B	NEPTUNE BENSON	48CCFG-3	134	11.36	177	11.8		3410	49"	58"	2,3,5

1. FILTERS ARE REGENERATIVE MEDIA. PROVIDE WITH PERLITE MEDIA.
2. USE DRYDEN AQUA DISTRIBUTION ACTIVATED FILTER MEDIA (AFM) FOR FILTER MATERIAL IN PLACE OF SAND. INSTALL PER DRYDEN AQUA RECOMMENDATIONS. SEE SPECIFICATIONS 13 11 32 FOR ADDITIONAL INFORMATION.
3. LEGACY SERIES (CCFG) FILTERS ARE HIGH RATE SAND, VERTICAL FIBERGLASS TANK. PROVIDE WITH 3" MULTI-PORT VALVE.
4. SEE SPECIFICATIONS SECTION 13 11 30 REGENERATIVE MEDIA FILTERS.
5. SEE SPECIFICATIONS SECTION 13 11 34 VERTICAL FIBERGLASS FILTERS.

AIR COMPRESSOR SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	TANK SIZE (GAL)	POWER (HP/VOLTAGE/PHASE)	NOTES
AC1	A	INGERSOLL RAND	P1.5IU-A9	20	2 HP, 120V, 1 PHASE	1,2

1. COMPRESSOR 5.2 CFM @ 90 PSI & 4.6 CFM @ MAXIMUM 135 PSI, CAST IRON TWIN CYLINDER COMPRESSOR PUMP. PROVIDE WITH WATER SEPARATOR MODEL AMG350, 1/2" PORT SIZE. SEE PL407 REGENERATIVE MEDIA DETAIL FOR MORE INFORMATION.
2. SEE SPECIFICATIONS SECTION 13 11 30 REGENERATIVE MEDIA FILTERS.

ULTRA VIOLET DISINFECTION SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	CONNECTION SIZE (IN)	PANEL ID TAG	TOTAL POWER (KW)	POWER REQUIRED (VOLTAGE/PHASE /HZ)	BREAKER SIZE (AMPS)	NOTES
UV1B	B	EVOQUA	WF-115-3	3	UVP1B	1.5	208-240V, 1PH (60 HZ)	20	1,2,3

1. PROVIDE WITH 4" ETS "EZ" STRAINER VALVE.
2. INSTALL PER DETAILS SEE PL405 & UV MANUFACTURER'S RECOMMENDATIONS.
3. SEE SPECIFICATIONS SECTION 13 11 35.

HEATER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	BTU/HR INPUT	GAS CONNECTION (IN)	WATER CONNECTION (IN)	VENT DIAMETER (IN)	AIR INTAKE (IN)	NOTES
H1A	A	LOCHINVAR	APO2000N	2,000,000	2	3	8	8	1,2

1. AQUAS HIGH EFFICIENCY (96%) COMMERCIAL POOL, FACTORY ASSEMBLED, SKID MOUNTED HEATING SYSTEM; MODULATING CONDENSING BOILER WITH TITANIUM PLATE HEAT EXCHANGER; MANUAL RESET HIGH LIMIT. PROVIDE WITH A.S.M.E. LABEL, BOILER PUMP, EXPANSION TANK RELIEF VALVE, FLOW SWITCH, DIRECT VENTING SYSTEM, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES. FURTHER PROVIDE WITH 4" FLOWVIS FLOWMETER ON HEATER INFLUENT PIPING AS SHOWN IN DETAILS. PROVIDE 1" POTABLE WATER LINE WITH PRESSURE REDUCING VALVE.
2. SEE SPECIFICATIONS SECTION 13 11 40.

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BRIAN W. FREIBERG
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number: 25204.02
Issue: 100% CD SET
Date: 03/26/2026
Drawn By: MDG
Checked By: JRB

Revisions:

Description	Date:

Sheet title:
MECHANICAL EQUIPMENT SCHEDULES

PL402

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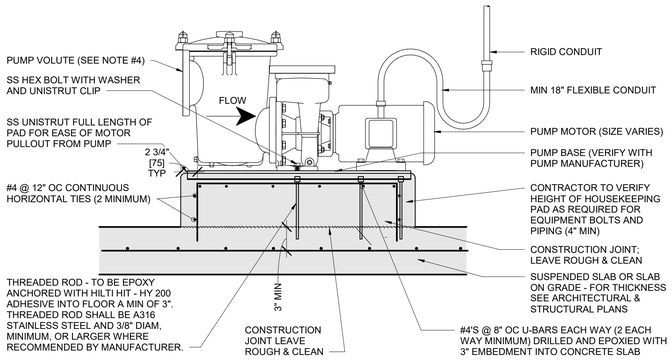
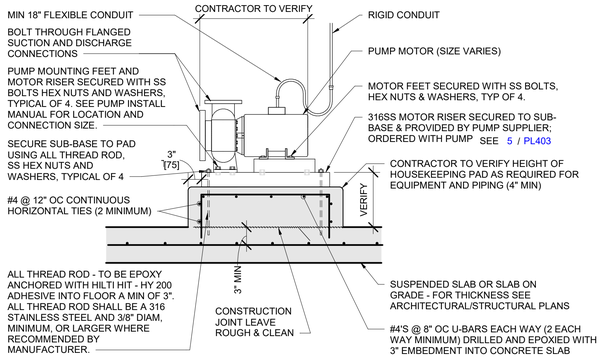


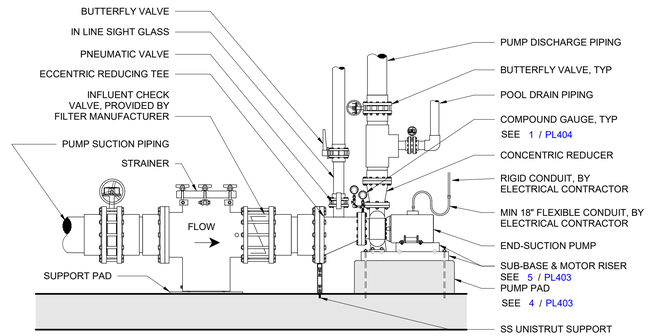
NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER/INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. DO NOT ALLOW PUMP VOLUTE TO CARRY WEIGHT OF PIPING. PROVIDE SUPPORT FOR VOLUTE AS ILLUSTRATED ABOVE. SIMILARLY PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.

8 PL403 | PUMP PAD
DETAIL VIEW
NOT TO SCALE



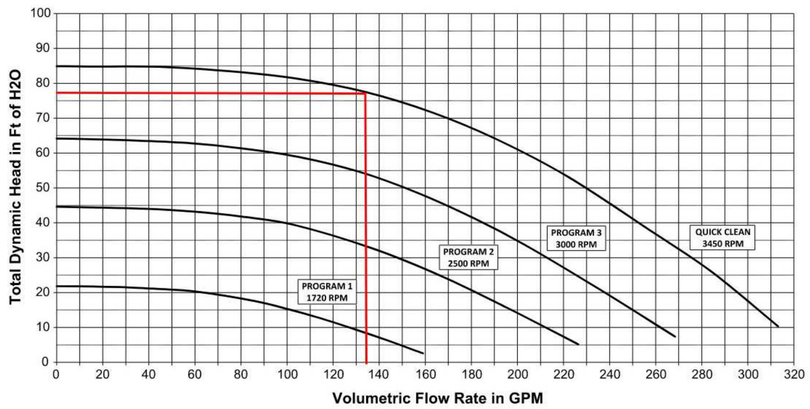
NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER / INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.
5. FINAL INSTALLATION SHALL ALLOW REMOVAL OF MOTOR AND PUMP IMPELLER WITHOUT REMOVAL OF PIPING OR ELECTRICAL CONNECTIONS.

4 PL403 | PUMP PAD
DETAIL VIEW
NOT TO SCALE

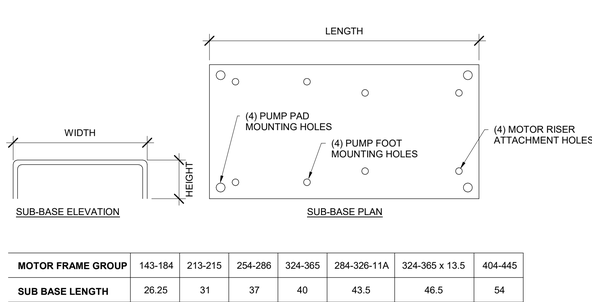


NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL STRAINER OR REDUCER WITH 1/4" NPT TAPS PROVIDED ON THE PUMP SUCTION AND DISCHARGE FLANGES.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.
5. LOCATE PRECOAT VALVE AND SPACE FLANGES AS REQUIRED TO AVOID CONFLICTS WITH THE DISCHARGE PLUMBING FLANGES AND VALVES.

1 PL403 | PUMP INSTALLATION - RM FILTER
DETAIL VIEW
NOT TO SCALE



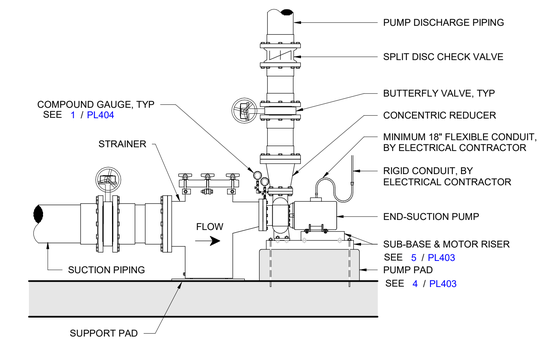
9 PL403 | P1B PUMP CURVE
DETAIL VIEW
NOT TO SCALE



MOTOR FRAME GROUP	143-184	213-215	254-286	324-365	284-326-11A	324-365 x 13.5	404-445
SUB BASE LENGTH	26.25	31	37	40	43.5	46.5	54
SUB BASE WIDTH	12	16	17	20	25	25	25
SUB BASE HEIGHT	3	3	3	3	4	4	4
RISER LENGTH	12	15	20	24	N/A	24	30
RISER WIDTH	10	12	15	18	N/A	18	22

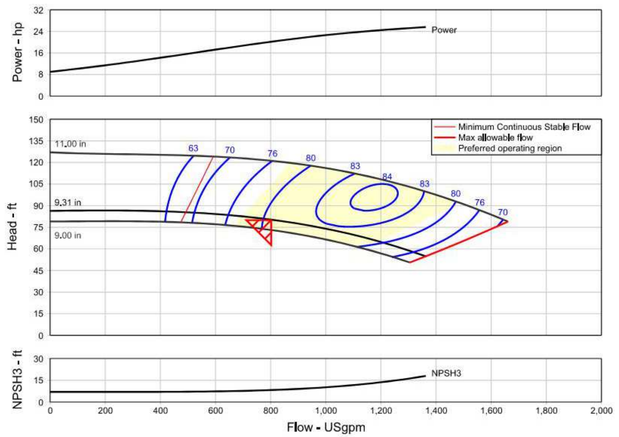
NOTES:
1. SUB-BASE AND MOTOR RISER HOLE LOCATIONS SHALL BE DETERMINED BY THE PUMP SUPPLIER BASED ON PUMP FRAME AND MOTOR DIMENSIONS. SEE PUMP SPECIFICATION SECTION 13 11 25 FOR ADDITIONAL INFORMATION.
2. MOTOR RISER HEIGHTS VARY. CONTRACTOR SHALL INCLUDE A DIMENSIONED SUB-BASE & MOTOR RISER DRAWING FOR EACH PUMP IN THE PUMP AND MOTOR SUBMITTAL FOR REVIEW.

5 PL403 | PUMP SUB-BASE & MOTOR RISER – AURORA 3801
DETAIL VIEW
NOT TO SCALE

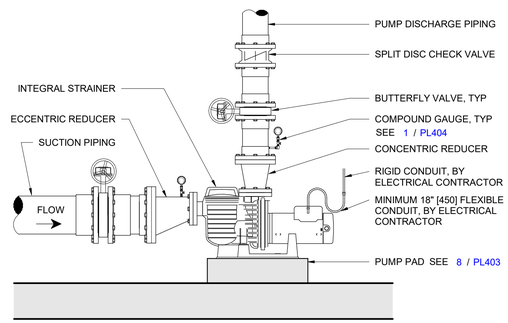


NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

2 PL403 | ACTIVITY PUMP INSTALLATION
DETAIL VIEW
NOT TO SCALE

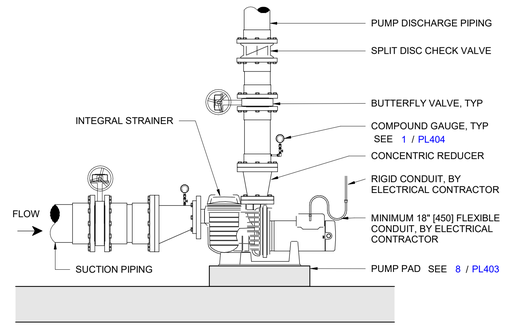


10 PL403 | P1A PUMP CURVE
DETAIL VIEW
NOT TO SCALE



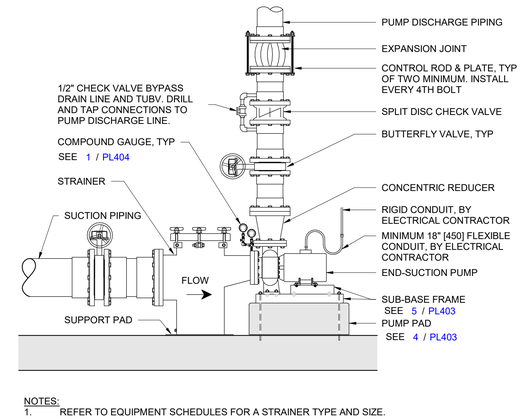
NOTES:
1. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
2. INSTALL REDUCER WITH 1/4" [6] FPT GAUGE CONNECTION AS CLOSE TO PUMP AS POSSIBLE.
3. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

7 PL403 | ACTIVITY PUMP INSTALLATION
DETAIL VIEW
NOT TO SCALE



NOTES:
1. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
2. INSTALL STRAINER OR REDUCER WITH 1/4" [6] FPT GAUGE CONNECTION AS CLOSE TO PUMP AS POSSIBLE.
3. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

6 PL403 | PUMP INSTALLATION - SAND FILTER
DETAIL VIEW
NOT TO SCALE



NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

3 PL403 | PUMP INSTALLATION - SLIDE
DETAIL VIEW
NOT TO SCALE

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BRIAN W. FRENCH
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:
MECHANICAL DETAILS

PL403

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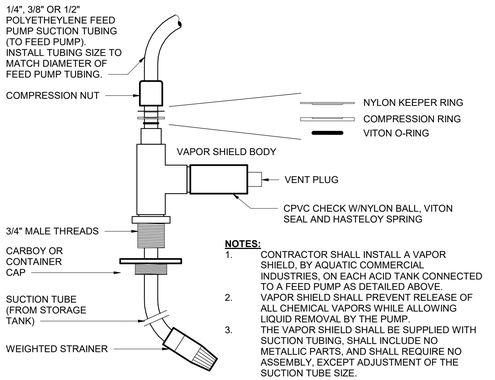
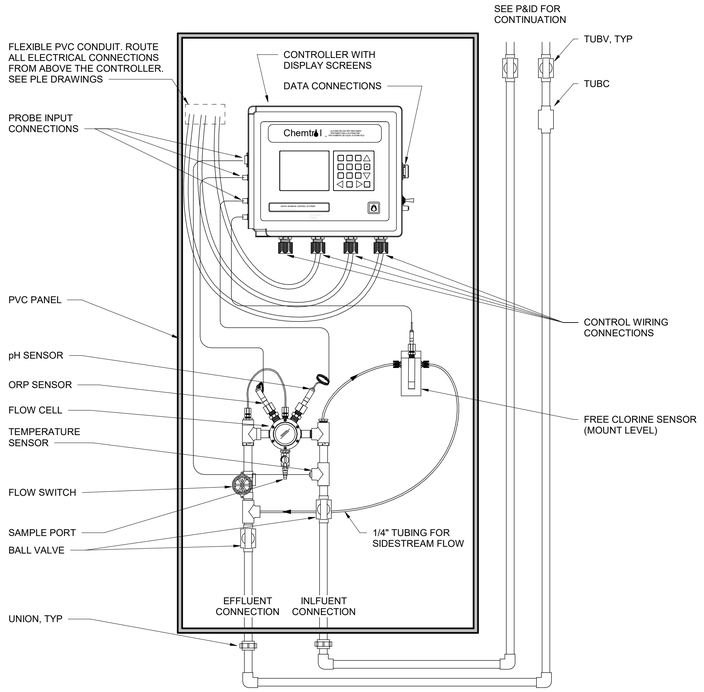


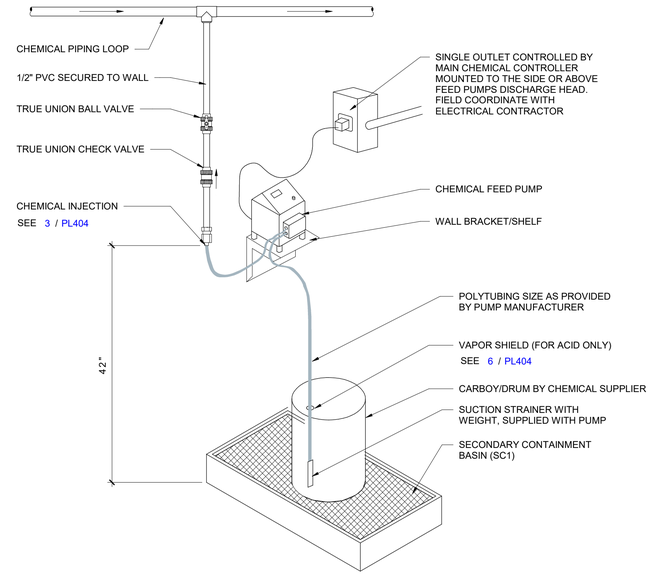
NOTES:
1. CONTRACTOR SHALL INSTALL A VAPOR SHIELD, BY AQUATIC COMMERCIAL INDUSTRIES, ON EACH ACID TANK CONNECTED TO A FEED PUMP AS DETAILED ABOVE.
2. VAPOR SHIELD SHALL PREVENT RELEASE OF ALL CHEMICAL VAPORS WHILE ALLOWING LIQUID REMOVAL BY THE PUMP.
3. THE VAPOR SHIELD SHALL BE SUPPLIED WITH SUCTION TUBING, SHALL INCLUDE NO METALLIC PARTS, AND SHALL REQUIRE NO ASSEMBLY, EXCEPT ADJUSTMENT OF THE SUCTION TUBE SIZE.

6 | PL404 VAPOR SHIELD DETAIL VIEW
NOT TO SCALE



NOTES:
1. ALL MATERIALS IN THE VICINITY OF THE CHEMICAL CONTROLLERS SHALL BE NON-CORROSIVE. THIS INCLUDES CLAMPS, FASTENERS, AND USE OF FIBERGLASS STRUT CHANNELS TO SUPPORT THE PIPING AND CONDUIT.
2. INSTALL ELECTRICAL INTERLOCK BETWEEN THE CHEMICAL CONTROLLER AND FILTRATION PUMP VFD AS INSTRUCTED BY THE CHEMICAL CONTROLLER INTALLATION MANUAL. THE INTERLOCK SHALL DE-ENERGIZE AND PREVENT OPERATION OF THE CHEMICAL FEEDERS WHEN THE FILTRATION PUMP IS OFF, LOSES POWER, OR IS NOT IN FILTRATION MODE.

4 | PL404 CHEMICAL CONTROLLER DETAIL VIEW
NOT TO SCALE

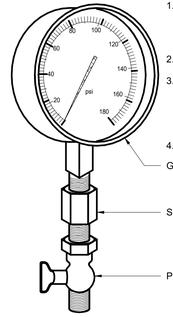


NOTE: MOUNT & INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALL MOUNTING & INSTALLATION MATERIALS & HARDWARE TO BE CORROSION RESISTANT.

5 | PL404 CHEMICAL FEED PUMP ISOMETRIC DETAIL VIEW
NOT TO SCALE

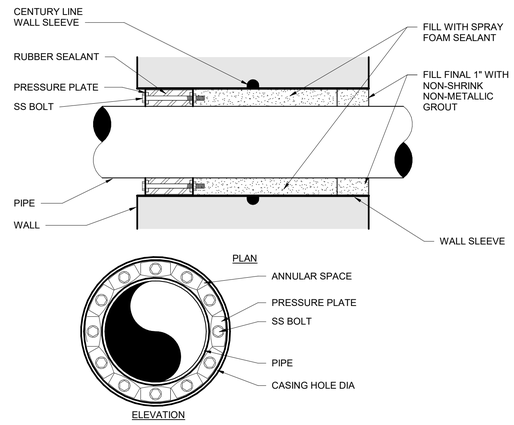
ALL COMPONENTS WITHIN DASHED BOX ARE PROVIDED BY MANUFACTURER WITH EQUIPMENT. CONFIGURATION MAY VARY WITH DIFFERENT EQUIPMENT MODELS. REFER TO EQUIPMENT MANUAL FOR INSTALLATION OF COMPONENTS WITHIN DASHED BOX.

7 | PL404 CHLORINATOR - ACCUTAB DETAIL VIEW
NOT TO SCALE



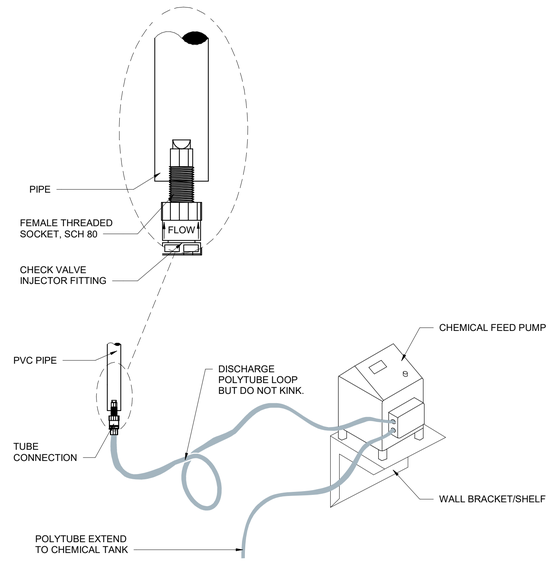
NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING & TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER & PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.
3. 2 1/2" SS CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi & VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi & VACUUM OF 2"Hg. 1/4" NPT AS MANUFACTURED BY TRERICE, MARSH, WINTERS OR APPROVED EQUAL.
4. INSTALL GAUGE IN A VERTICAL ORIENTATION.

1 | PL404 COMPOUND GAUGE DETAIL VIEW
NOT TO SCALE



NOTES:
1. SLEEVE SUPPLIED BY POOL CONTRACTOR, INSTALLED BY BUILDING CONTRACTOR.
2. LINK SEAL SUPPLIED AND INSTALLED BY POOL CONTRACTOR.
3. LOCATE LINK SEAL ON THE MOST ACCESSIBLE SIDE OF THE WALL.

2 | PL404 WALL SLEEVE / LINK SEAL DETAIL VIEW
NOT TO SCALE



NOTES:
1. FOR PIPING USE FASTITE CONNECTOR OR SIMILAR COMPRESSION FITTING.
2. FOR POLYTUBING MATCH FEED PUMP TUBING MATERIAL TYPE AND SIZE.
3. POLYTUBING AND CHECK VALVE INJECTOR SHALL BE SUPPLIED WITH THE PUMP BY THE MANUFACTURER RATED FOR THE SYSTEM PRESSURE AND COMPATIBLE WITH THE POOL CHEMICALS.

3 | PL404 CHEMICAL INJECTION DETAIL VIEW
NOT TO SCALE

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Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

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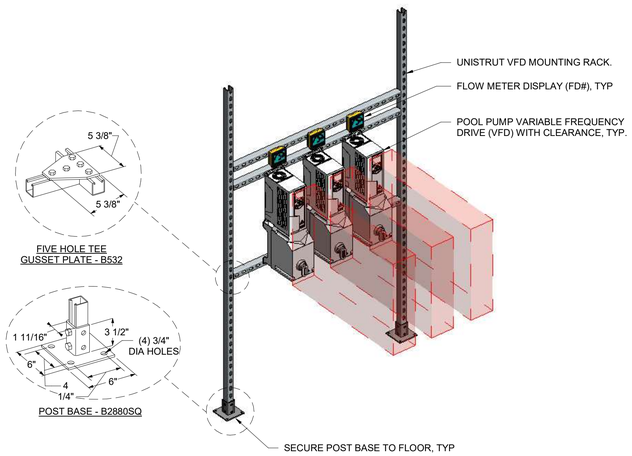
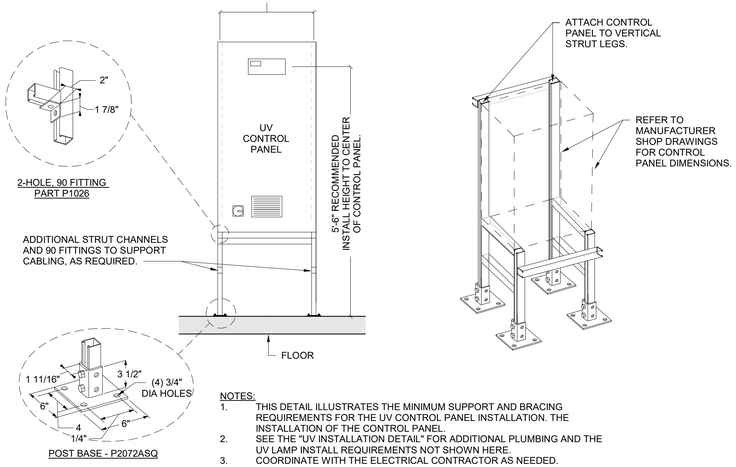


NOTES:
1. SEE SPECIFICATION SECTION 13 11 23 FOR UNISTRUT RACK MATERIALS.
2. SEE PLAN FOR EQUIPMENT LOCATIONS. RACK MAY HOUSE A SINGLE VARIABLE FREQUENCY DRIVE (VFD) OR MULTIPLE VFD. IF HOUSING MORE THAN ONE VFD, SECURE/BRACE RACK TO WALL OR CEILING.
3. PUMP FEEDER AND CABLE BETWEEN VFD AND MOTOR TERMINAL BOX NOT SHOWN. SEE ELECTRICAL DRAWINGS FOR COORDINATION OF CABLE AND CONDUIT ROUTING.
4. VFD REQUIRES 4'-0" MIN. FRONT WORKING CLEARANCE FROM FLOOR TO +6'-6" AFF, OR THE HEIGHT OF THE CONTROLLER, WHICHEVER IS GREATER. CLEARANCE WIDTH SHALL BE 30" OR THE WIDTH OF THE CONTROLLER, WHICHEVER IS GREATER.

6 PL405 VFD RACK DETAIL VIEW
NOT TO SCALE

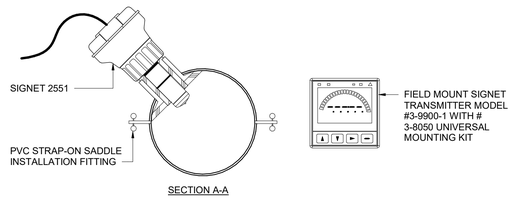
UV PANEL BRACING

POST BASE SPACING DEPENDENT ON CONTROL PANEL WIDTH. REFER TO MANUFACTURER SHOP DRAWINGS FOR EXACT DIMENSIONS.

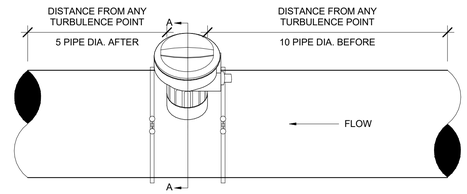


NOTES:
1. THIS DETAIL ILLUSTRATES THE MINIMUM SUPPORT AND BRACING REQUIREMENTS FOR THE UV CONTROL PANEL INSTALLATION. THE INSTALLATION OF THE CONTROL PANEL.
2. SEE THE "UV INSTALLATION DETAIL" FOR ADDITIONAL PLUMBING AND THE UV LAMP INSTALL REQUIREMENTS NOT SHOWN HERE.
3. COORDINATE WITH THE ELECTRICAL CONTRACTOR AS NEEDED.

3 PL405 UV SUPPORT & BRACING DETAIL VIEW
NOT TO SCALE



SECTION A-A

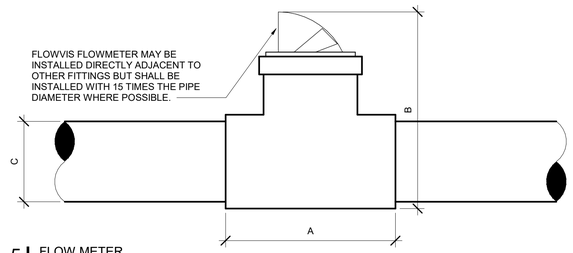


ELEVATION

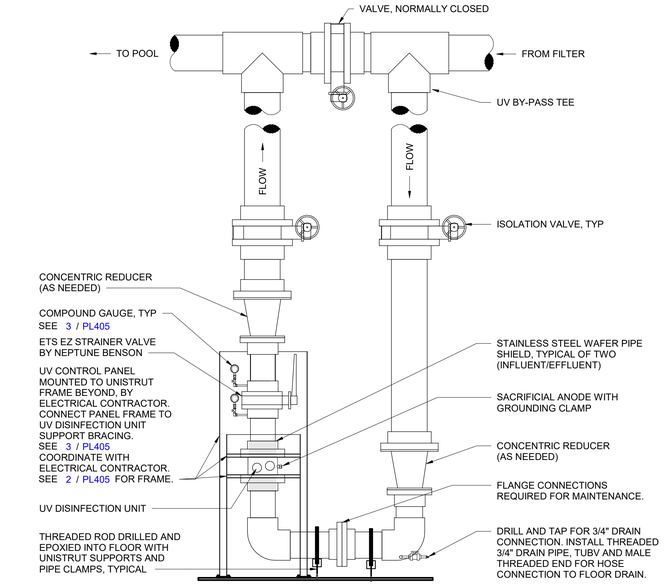
NOTES:
1. INSTALL PIPE SUCH THAT AIR CANNOT GET TRAPPED IN AREA OF SENSOR. DO NOT INSTALL IN PIPES WITH FLOW MOVING DOWNWARD OR IN HORIZONTAL SECTIONS OF PIPE THAT ARE HIGHER THAN ADJACENT HORIZONTAL PIPE.
2. FOR HORIZONTAL PIPE INSTALLATIONS, INSTALL FLOWMETER FACING UPWARD AT A 45° ANGLE TO MINIMIZE ADVERSE EFFECTS OF AIR POCKETS AND SEDIMENT.
3. FIELD MOUNT TRANSMITTER APPROXIMATELY 4'-6" (1350) ABOVE FINISHED FLOOR OR GRADE UTILIZING THE #3-8050 UNIVERSAL MOUNTING KIT.

4 PL405 FLOW METER DETAIL VIEW
NOT TO SCALE

MODEL	A	B	C
FV-15	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 1.5"
FV-2	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2"
FV-25	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2.5"
FV-3-40	8.0" (203.2)	9.5" (241.3)	SCHEDULE 40 - 3"
FV-3	8.0" (203.2)	9.5" (241.3)	SCHEDULE 80 - 3"
FV-4	9.5" (241.3)	9.75" (247.65)	SCHEDULE 80 - 4"
FV-6	6" (241.3)	12.53" (318.26)	SCHEDULE 80 - 6"
FV-8	8.59" (218.17)	14.37" (365)	SCHEDULE 80 - 8"

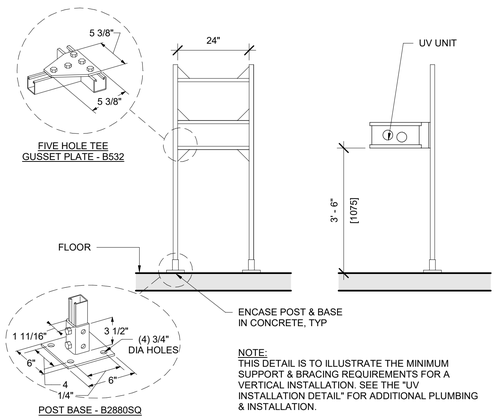


5 PL405 FLOW METER DETAIL VIEW
NOT TO SCALE



NOTES:
1. ALL PIPING & FITTINGS TO & FROM UV UNIT TO THE "UV BY-PASS TEES" SHALL BE SCH 80 PVC.
2. ALL PIPE REDUCTIONS SHALL BE WITH A CONCENTRIC REDUCER AS SHOWN. NO BUSHINGS ALLOWED.
3. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. CONTROL BOX SHALL BE INSTALLED WITHIN 10 FT OF UNIT, WHENEVER POSSIBLE.
4. PROVIDE CLEARANCE AS REQUIRED ADJACENT TO UV UNIT FOR REMOVAL & REPLACEMENT OF UV LAMPS.
5. DO NOT INSTALL VALVES DIRECTLY TO CHAMBER BODY. INSTALL STAINLESS STEEL WAFER PIPE SHIELDS SUPPLIED WITH THE UV UNIT, PER MANUFACTURER'S RECOMMENDATIONS.
6. UV UNIT SHALL BE PROPERLY SUPPORTED & BRACED. SEE REFERENCED "UV SUPPORT & BRACING DETAIL". COMBINE CONTROL PANEL FRAME SUPPORTS WITH THE LAMP SUPPORT BRACING TO FORM A SINGLE FRAME/STRUCTURE.
7. UV LAMP AND PANEL MUST BE PROPERLY BONDED AND GROUNDED. PER MANUFACTURER'S INSTRUCTIONS, CONNECT GROUND WIRE TO GROUND CLAMP ON SACRIFICIAL ANODE. CONNECT THIS BONDING WIRE TO THE FRONT CHAMBER FOOT TERMINAL. CONNECT THE SEPARATE UV CONTROL PANEL GROUND WIRE (COMING FROM THE UV CONTROL PANEL) TO THE SAME LOCATION AT THE FRONT CHAMBER FOOT BRACKET.

1 PL405 UV DISINFECTION DETAIL VIEW
NOT TO SCALE



NOTE:
THIS DETAIL IS TO ILLUSTRATE THE MINIMUM SUPPORT & BRACING REQUIREMENTS FOR A VERTICAL INSTALLATION. SEE THE "UV INSTALLATION DETAIL" FOR ADDITIONAL PLUMBING & INSTALLATION.

2 PL405 UV SUPPORT & BRACING DETAIL VIEW
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Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:

MECHANICAL DETAILS

PL405

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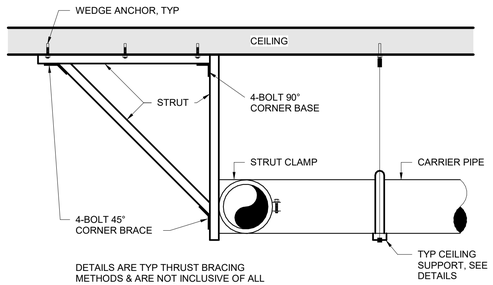
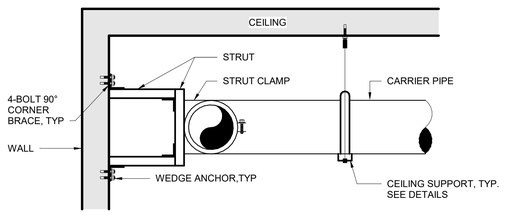


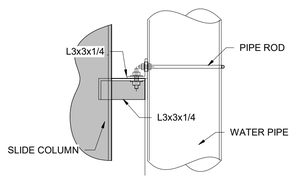
DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

10 | PIPE THRUST BRACING DETAIL VIEW
PL406 NOT TO SCALE

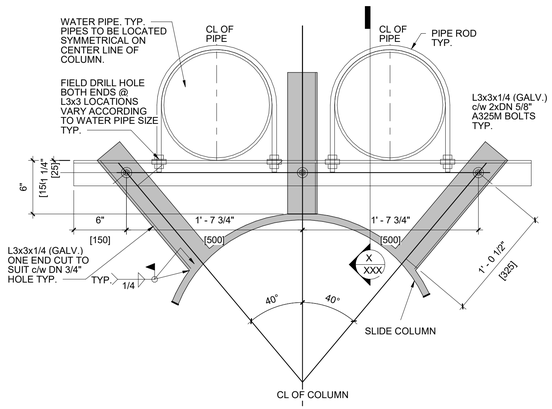


DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

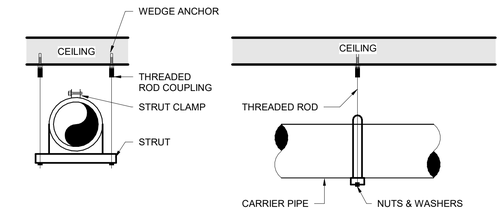
11 | PIPE THRUST BRACING DETAIL VIEW
PL406 NOT TO SCALE



12 | SLIDE COLUMN BRACKET SECTION DETAIL VIEW
PL406 NOT TO SCALE

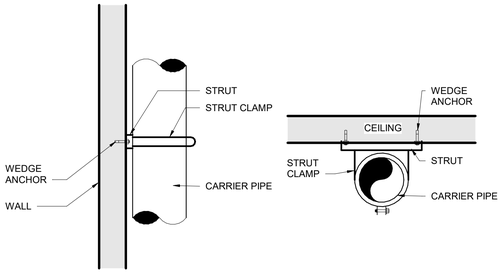


13 | SLIDE COLUMN MULTIPLE PIPE BRACKET DETAIL VIEW
PL406 NOT TO SCALE



NOTES:
1. DETAILS ARE TYP SUPPORT METHODS AND ARE NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY AND VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL AND VERTICAL/HORIZONTAL CHANGES IN DIRECTIONS.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS AND MATERIALS.
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

6 | PIPE SUPPORT DETAIL VIEW
PL406 NOT TO SCALE



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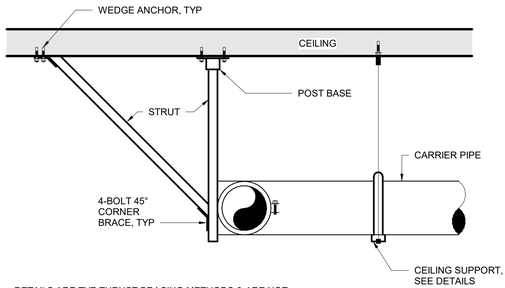
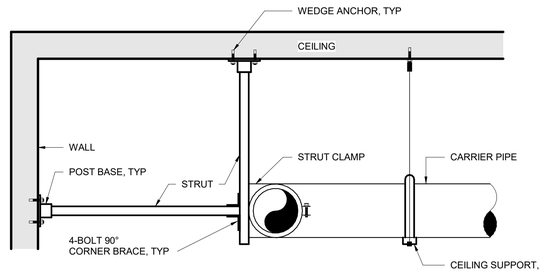
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

7 | PIPE SUPPORT DETAIL VIEW
PL406 NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

8 | PIPE THRUST BRACING DETAIL VIEW
PL406 NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS & ARE NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

9 | PIPE THRUST BRACING DETAIL VIEW
PL406 NOT TO SCALE

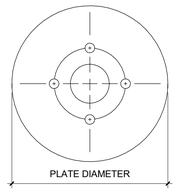
MAX ALLOWABLE SUPPORT SPACING FOR PVC PIPE (IN FT)										
NOMINAL PIPE SIZE	SCHEDULE 40					SCHEDULE 80				
	TEMPERATURE (°F)					TEMPERATURE (°F)				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/2"	4.5	4.5	4	2.5	2.5	5	4.5	4.5	3	2.5
3/4"	5	4.5	4	2.5	2.5	5.5	5	4	3	2.5
1"	5.5	5	4.5	3	2.5	6	5.5	5	3.5	3
1 1/4"	5.5	5.5	5	3	3	6	6	5.5	3.5	3
1 1/2"	6	5.5	5	3.5	3	6.5	6	5.5	3.5	3.5
2"	6	5.5	5	3.5	3	7	6.5	6	4	3.5
2 1/2"	7	6.5	6	4	3.5	7.5	7.5	6.5	4.5	4
3"	7	7	6	4	3.5	8	7.5	7	4.5	4
4"	7.5	7	6.5	4.5	4	9	8	7.5	5	4.5
6"	8.5	8	7.5	5	4.5	10	9.5	9	6	5
8"	9	8.5	8	5	4.5	11	10.5	9.5	6.5	5.5
10"	10	9	8.5	5.5	5	12	11	10	7	6
12"	11.5	10.5	9.5	6.5	5.5	12	11	10	7	6

4 | PIPE SUPPORT SCHEDULE DETAIL VIEW
PL406 NOT TO SCALE

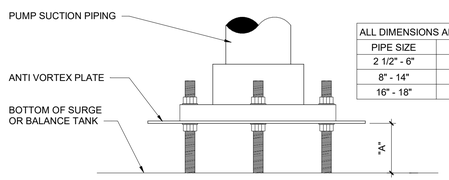
WEIGHT OF WATER FILLED PIPES				
PIPE DIA. (IN.)	OD (IN.)	ID (IN.)	EMPTY PIPE WT. (LBS/LF)	FILLED PIPE TOTAL WT. (LBS/LF)
0.5	0.840	0.526	0.213	0.307
0.75	1.050	0.722	0.289	0.466
1	1.315	0.936	0.424	0.722
1.25	1.660	1.255	0.586	1.122
1.5	1.900	1.476	0.711	1.452
2	2.375	1.913	0.984	2.229
2.5	2.875	2.290	1.500	3.284
3	3.500	2.864	2.010	4.800
4	4.500	3.786	2.938	7.814
6	6.625	5.709	5.610	16.697
8	8.625	7.565	8.522	27.989
10	10.750	9.493	12.635	43.290
12	12.750	11.294	17.384	60.774
14	14.000	12.410	20.852	73.240
16	16.000	14.213	26.810	95.527
18	18.000	16.014	33.544	120.779
20	20.000	17.814	107.948	148.995
24	24.000	21.418	156.045	214.278

NOTES:
1. BASIS OF WEIGHT IS +GF+ PVC INDUSTRIAL PIPE: SCH80 WITH A DENSITY OF 91.10 LB/CF
2. SEE POOL PIPE SCHEDULES FOR REQUIRED PIPE SIZES.

5 | WEIGHT OF WATER FILLED PIPES DETAIL VIEW
PL406 NOT TO SCALE



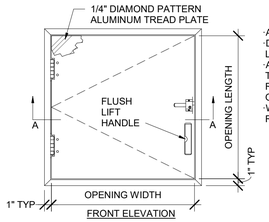
ALL DIMENSIONS ARE IN INCHES				
SUCTION PIPING SIZE	PLATE DIA.	HARDWARE SIZE	PVC PLATE	S.S. PLATE
3	9	5/8	AVPLATE3PVCKIT	AVPLATE3SSKIT
4	12	5/8	AVPLATE4PVCKIT	AVPLATE4SSKIT



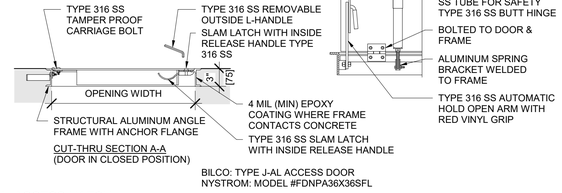
ALL DIMENSIONS ARE IN INCHES	
PIPE SIZE	"A" DIM
2 1/2" - 6"	3"
8" - 14"	4"
16" - 18"	10"

NOTES:
1. PLATE DESIGNED TO LIMIT VELOCITY TO 1.5 F.P.S. MAXIMUM
2. FLOW IS BASED ON THE SUCTION PIPING VELOCITY AT 6 F.P.S.
3. ALL KITS INCLUDE (4) SS THREADED ROD, (8) SS NUTS, (8) SS FLAT WASHERS

1 | ANTI VORTEX PLATE DETAIL VIEW
PL406 NOT TO SCALE



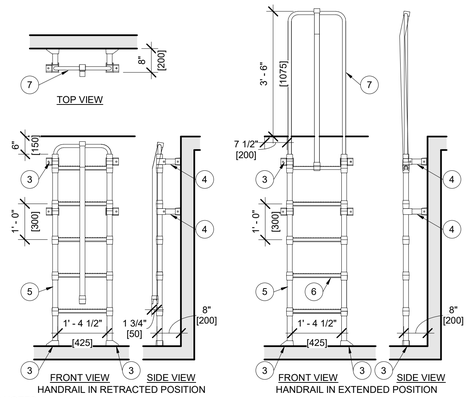
- ALL HARDWARE COMPONENTS ARE .SS (TYPE 316)
- DOOR BALANCED TO REQUIRE NO MORE THAN 10 TO 30 LBS. OF OPENING FORCE
- ALL STIFFENER PATTERNS ARE WITHIN 14" ON CENTER TO ACHIEVE THE 300 LB/SQ FT LIVE LOAD REQUIREMENT WITH LESS THAN 1/160 DEFLECTION OVER THE TOTAL SPAN
- WHEN THE LENGTH IS OVER 54" THE HATCH WILL RECEIVE TWO HOLD OPEN ARMS.



CUT-THRU SECTION A-A
(DOOR IN CLOSED POSITION)

BILCO: TYPE J-AL ACCESS DOOR
NYSTROM: MODEL #FDNPA36X36SFL

2 | ACCESS HATCH DETAIL VIEW
PL406 NOT TO SCALE



KEYED NOTES:
1. LADDERS WITH PULL-UP HANDRAIL, AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
2. POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS & OSHA 1910.26 & 1910.27 SPECIFICATIONS.
3. FASTEN LADDER TO FLOOR & WALL WITH 1/2" DIAMETER STAINLESS STEEL HILTI KWIK BOLT TZ ANCHORS WITH 3 1/4" EMBEDMENT. ANCHORS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
4. STANDARD ADJUSTABLE MOUNTING BRACKET - 8" OD
5. ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1-3/4" x 1-3/4" DIA
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1-5/8" x 1-1/4" DIA WITH MOLDED FINGER GRIPS, 12" CC
7. ALUMINUM & STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL. LADDER MANUFACTURED BY LANE INTERNATIONAL CORPORATION, P.O. BOX 925, TUALATIN, OREGON 800-666-0076

3 | ACCESS LADDER DETAIL VIEW
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BRIAN W. FREIBERG
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
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Revisions:

Description	Date:

Sheet title:

MECHANICAL DETAILS

PL406

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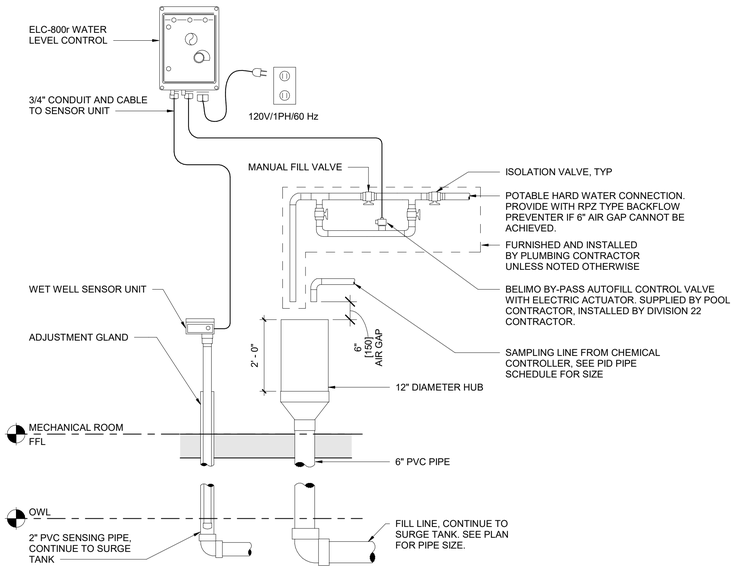
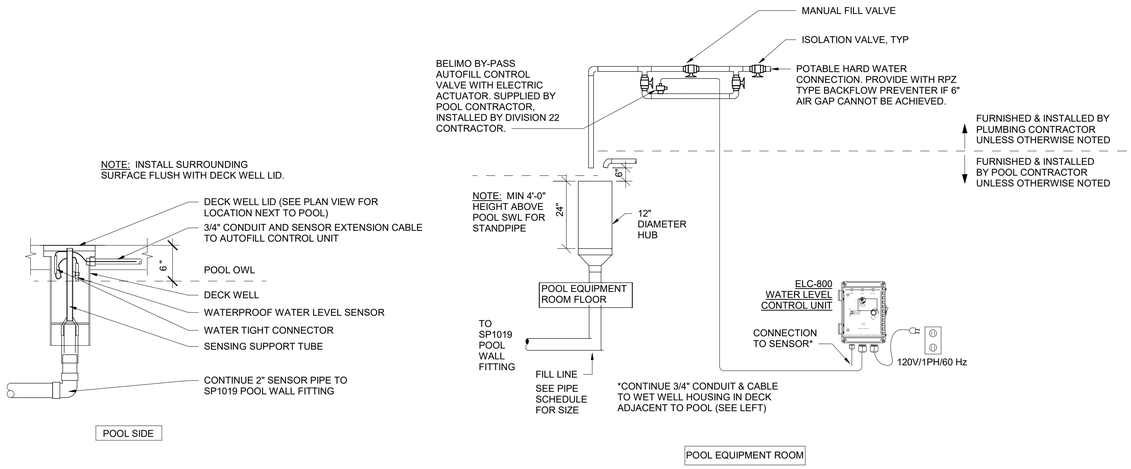
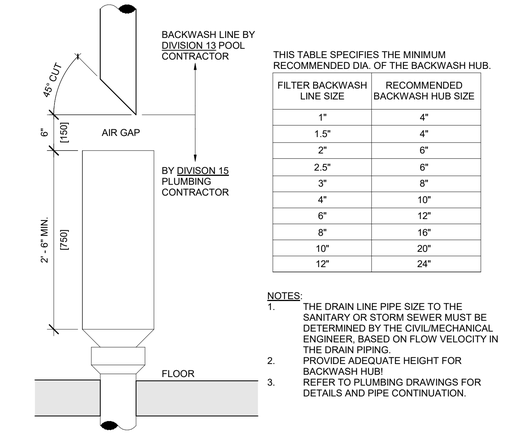


NOTES:
1. AUTOFILL CONTROL UNIT, WET WELL HOUSING/SENSOR AND CONTROL VALVE FURNISHED BY POOL CONTRACTOR.
2. AUTOFILL VALVE ASSEMBLY & CONTROL VALVE INSTALLED BY LICENSED PLUMBER.
3. RECOMMENDED WATER HARDNESS FROM POTABLE WATER SUPPLY IS 150-400 PPM CaCO3.
4. PROVIDE A MINIMUM 4'-0" STANDPIPE HEIGHT ABOVE POOL SWL.

3 PL407 AUTOFILL/WATER LEVEL CONTROL - WET WELL DETAIL VIEW
NOT TO SCALE



4 PL407 AUTOFILL/WATER LEVEL CONTROL - DECK WELL DETAIL VIEW
NOT TO SCALE

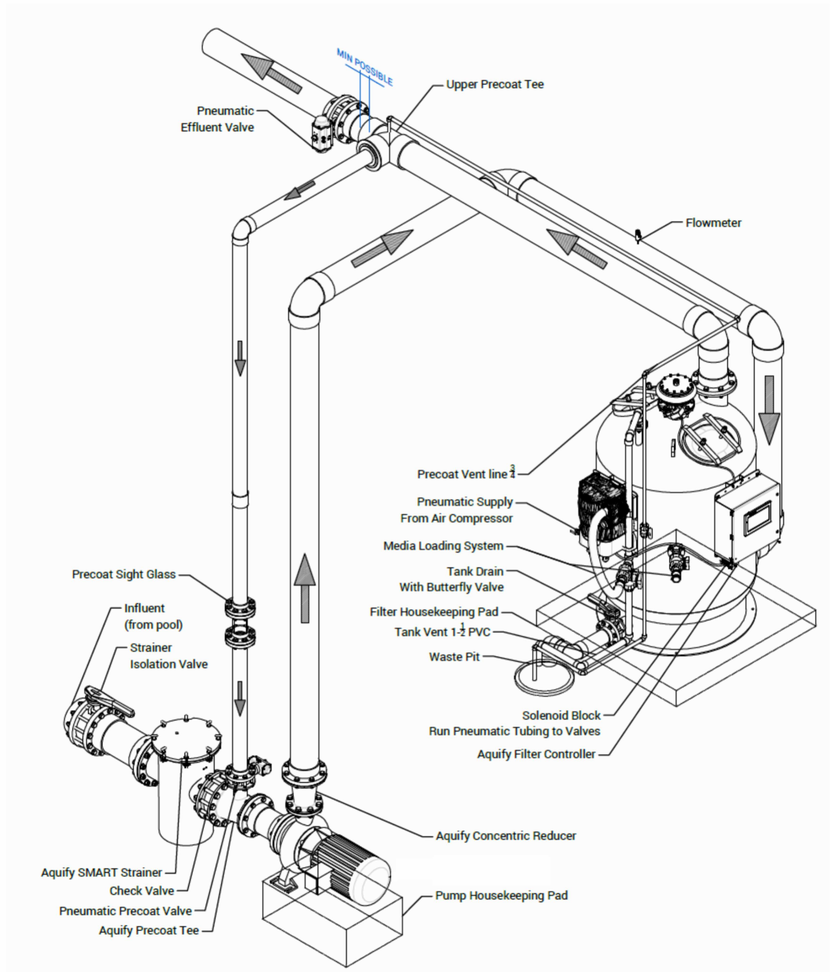


THIS TABLE SPECIFIES THE MINIMUM RECOMMENDED DIA. OF THE BACKWASH HUB.

FILTER BACKWASH LINE SIZE	RECOMMENDED BACKWASH HUB SIZE
1"	4"
1.5"	4"
2"	6"
2.5"	6"
3"	8"
4"	10"
6"	12"
8"	16"
10"	20"
12"	24"

NOTES:
1. THE DRAIN LINE PIPE SIZE TO THE SANITARY OR STORM SEWER MUST BE DETERMINED BY THE CIVIL/MECHANICAL ENGINEER, BASED ON FLOW VELOCITY IN THE DRAIN PIPING.
2. PROVIDE ADEQUATE HEIGHT FOR BACKWASH HUB!
3. REFER TO PLUMBING DRAWINGS FOR DETAILS AND PIPE CONTINUATION.

1 PL407 BACKWASH HUB DETAIL VIEW
NOT TO SCALE



2 PL407 AQUIFY FILTER SCHEMATIC DETAIL VIEW
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COLORADO LICENSED BRIAN W. FRIBERG PROFESSIONAL ENGINEER P.E.0042920 03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

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PL407

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POOL A - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	PVC SCH 80	10	803	3.6	FILTRATION PUMP SUCTION - SKIMMER
	-	-	-	-	-
P1-1A	PVC SCH 80	8	803	5.7	FILTRATION SUPPLY
P1-2A	PVC SCH 80	4	300	8.5	POOL DRAIN LINE
P1-3A	PVC SCH 80	4	0	0.0	FILTER PRECOAT
P1-4A	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
	-	-	-	-	-
P1-6A	CPVC SCH 80	4	225	6.4	HEATER LOOP
P1-7A	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
	-	-	-	-	-
D-1A	PVC SCH 80	4	0	-	FILTER DRAIN
	-	-	-	-	-
P1-20A	PVC SCH 80	3	126	6.3	INLET SUPPLY (60 MIN TO)
P1-40A	PVC SCH 80	6	488	6.1	INLET SUPPLY (120 MIN TO)
P1-60A	PVC SCH 80	4	189	5.4	INLET SUPPLY (240 MIN TO)
	-	-	-	-	-
S2-1A	PVC SCH 80	10	900	4.1	SLIDE SUCTION
P2-1A	PVC SCH 80	8	900	6.4	SLIDE SUPPLY
P2-10A	PVC SCH 80	6	500	6.3	SLIDE SUPPLY AT ENTRY
P2-20A	PVC SCH 80	6	400	5.0	SLIDE SUPPLY AT TRANSITION
PG-10A	PVC SCH 40	14	900	2.2	SLIDE DRAIN PIPING
	-	-	-	-	-
S3-1A	PVC SCH 80	6	222	2.8	ZDE FEATURES SUCTION
P3-1A	PVC SCH 80	4	222	6.3	ZDE FEATURE SUPPLY
P3-2A	PVC SCH 80	4	176	5.0	ZDE FEATURE SUPPLY HEADER
P3-3A	PVC SCH 80	2.5	91	7.1	ZDE FEATURE SUPPLY HEADER
P3-10A	PVC SCH 80	2	46	5.1	PLAYSTRUCTURE SUPPLY
P3-20A	PVC SCH 80	2.5	85	6.6	ZDE GEYSER SUPPLY
P3-30A	PVC SCH 80	2.5	90	7.0	ZDE DECK SPRAY SUPPLY
P3-40A	PVC SCH 80	1.5	1	0.2	FS FLUTTERBY SUPPLY
	-	-	-	-	-
S4-1A	PVC SCH 80	4	107	3.0	RIVER FEATURE SUCTION
P4-1A	PVC SCH 80	3	107	5.3	RIVER FEATURE SUPPLY
P4-2A	PVC SCH 80	2	56	6.3	RIVER FEATURE SUPPLY HEADER
P4-10A	PVC SCH 80	2	51	5.7	RIVER GEYSER SUPPLY
P4-20A	PVC SCH 80	1.5	30	5.6	FS RESTORATIVE SPRAY 1 SUPPLY
P4-30A	PVC SCH 80	1.5	26	4.9	FS RESTORATIVE SPRAY 2 SUPPLY
	-	-	-	-	-
S5-1A	PVC SCH 80	12	1,200	3.8	PROPULSION SUCTION
P5-1A	PVC SCH 80	10	1,200	5.4	PROPULSION SUPPLY
P5-10A	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
	-	-	-	-	-
G-2A	PVC SCH 80	0.75	0	0.0	CONDUIT
PG-1A	PVC SCH 40	2	39	3.8	FILL LINE
	-	-	-	-	-

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COLORADO LICENSED
BRIAN W. FRISBEE
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

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POOL A - MECHANICAL SCHEMATIC

PL510

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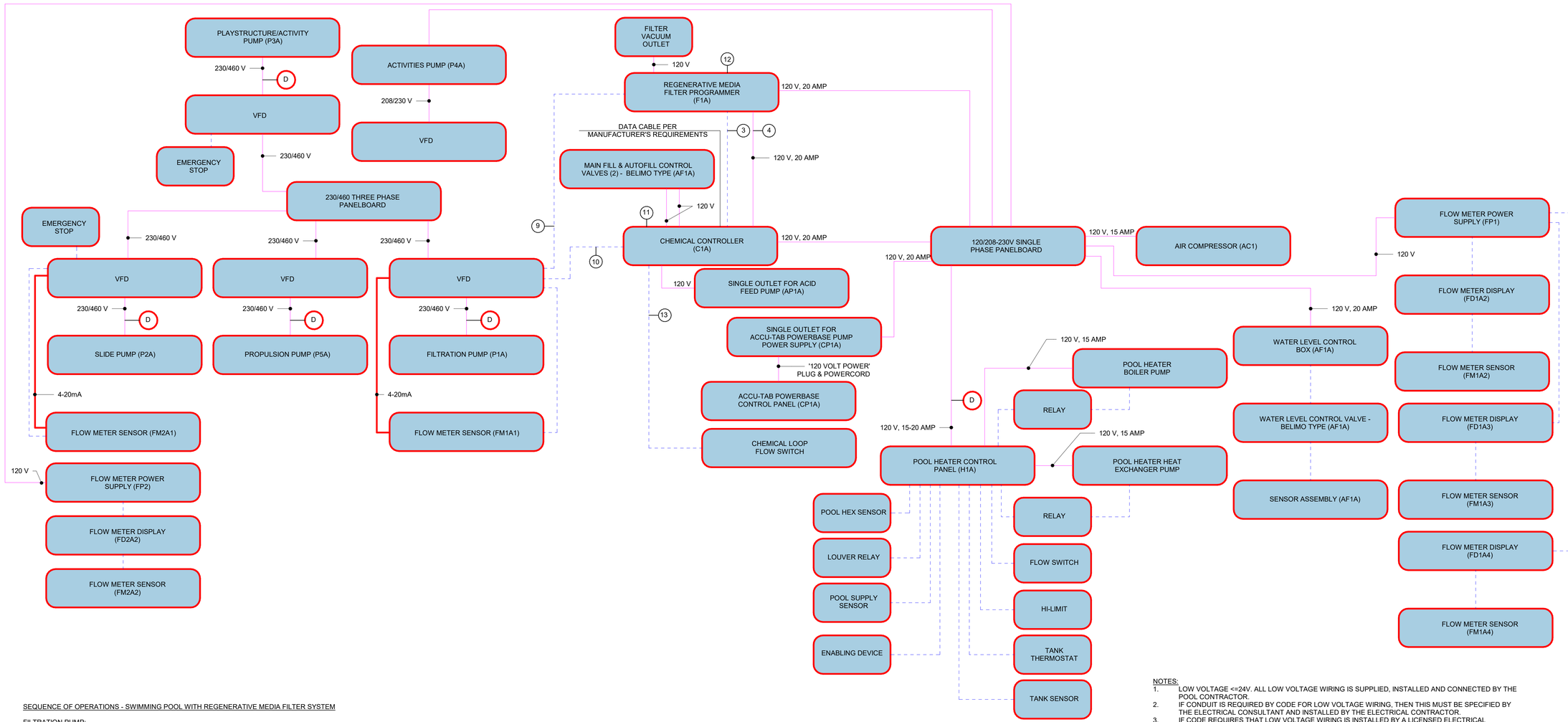
1 PL510 POOL A - MECHANICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE



SEQUENCE OF OPERATIONS - SWIMMING POOL WITH REGENERATIVE MEDIA FILTER SYSTEM

FILTRATION PUMP:
- THE NORMAL OPERATING POSITION OF THE FILTRATION PUMP VFD HOA SWITCH IS THE "AUTO" POSITION. IN THE "AUTO" POSITION THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY). THE SWITCH IS WIRED BETWEEN THE FILTER PUMP VFD AND THE CHEMICAL CONTROLLER TO DISABLE THE CHEMICAL FEED SYSTEM AS DESCRIBED BELOW.
- THE FILTRATION PUMP SHALL RUN WHEN THE FILTER PROGRAMMER IS IN THE FILTRATION MODE.
- THE FILTRATION PUMP SHALL RUN AT REDUCED SPEED WHEN THE FILTER PROGRAMMER IS IN THE PRECOAT MODE. COORDINATE SPEED SETTING WITH FILTER COMISSIONING AGENT.
- THE FILTRATION PUMP SHALL NOT RUN WHEN THE FILTER PROGRAMMER IS IN THE BUMP OR OFF MODES.

FILTER PROGRAMMER:
- THE FILTER PROGRAMMER'S NORMAL OPERATION IS IN FILTRATION MODE.
- THE FILTER BUMP CYCLE IS ACTIVATED BY THE FILTER PROGRAMMER EITHER AUTOMATICALLY OR BY A PUSH BUTTON.
- THE FILTER PROGRAMMER SHALL RECEIVE A FEEDBACK SIGNAL FROM THE FILTRATION PUMP VFD THAT THE FILTRATION PUMP IS OPERATING.
- THE FILTER PROGRAMMER IS SUPPLIED WITH AUXILIARY CONTACTS TO DISABLE OTHER POOL EQUIPMENT WHEN THE FILTRATION PUMP IS NOT RUNNING DUE TO PUMP FAILURE (FEEDBACK SIGNAL FROM VFD) OR THE PROGRAMMER IS IN THE BUMP OR OFF MODES.

IN-LINE FLOW SWITCH:
- THE IN-LINE FLOW SWITCH IS USED TO PROVE FLOW TO THE CHEMICAL CONTROLLER.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL CONTROLLER AND CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), THE IN-LINE FLOW SWITCH IS NOT MADE OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.
- INSTALL ELECTRICAL INTERLOCK BETWEEN THE CHEMICAL CONTROLLER AND FILTRATION PUMP VFD AS INSTRUCTED BY THE CHEMICAL CONTROLLER INTALLATION MANUAL. THE INTERLOCK SHALL DE-ENERGIZE AND PREVENT OPERATION OF THE CHEMICAL FEEDERS WHEN THE FILTRATION PUMP IS OFF, LOSES POWER, OR IS NOT IN FILTRATION MODE.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

ACCU-TAB POWERBASE CHLORINE FEEDER:
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS POWERED BY THE PANELBOARD. THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS ALWAYS ON.
- THE ACCU-TAB POWERBASE CONTROLLER ACTIVATES THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

POOL HEAT EXCHANGER:
- THE HOT BOILER WATER SIDE OF THE POOL HEAT EXCHANGER SYSTEM BY MECHANICAL SHALL BE CONTROLLED SUCH THAT THE HEAT EXCHANGER RECEIVES HOT WATER ONLY WHEN THE FILTRATION PROGRAMMER IS IN THE "FILTRATION" POSITION. IF THE PUMP LOSES POWER OR WHEN THE FILTER PROGRAMMER IS IN THE "BUMP" OR "OFF" POSITIONS, THE BOILER SHALL NOT SEND HOT WATER TO THE HEAT EXCHANGER.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL BOOSTER PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID FEED	HEATER
BUMP	O	O	X	O	O	O
PRECOAT	REDUCED SPEED	O	X	O	O	O
OFF	O	O	X	O	O	O
FILTRATION	X	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. NOT USED.
2. NOT USED.
3. TDS CONTROL.
4. PROVIDE (2) WIRES FOR CHEMICAL CONTROLLER INTERLOCK CONNECTION FROM FILTER PROGRAMMER CONTACTS #45 AND #46 TO THE CHEMICAL CONTROLLER RUN/STOP CONTACTS. WHEN FILTER PROGRAMMER IS IN OFF, PRECOAT, OR BUMP MODE, OR THE FILTRATION PUMP IS NOT RUNNING DUE TO POWER FAILURE (SIGNAL FROM VFD), THIS CONNECTION SHALL DISABLE THE CHEMICAL CONTROLLER AND DEACTIVATE THE CHEMICAL FEED TO THE SYSTEM. AS DESCRIBED IN THE "SEQUENCE OF OPERATIONS"
5. NOT USED.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. WHEN FILTER PROGRAMMER IS OFF, PRECOAT OR BUMP MODE OR THE FILTRATION PUMP NOT RUNNING DUE TO POWER FAILURE, THIS CONNECTION SHALL DEACTIVATE THE CONNECTED POOL EQUIPMENT. COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. ELECTRICIAN MUST MOUNT THE SMALL BOX ON THE FRAME OF THE DEFENDER FILTER IN THE PREDRILLED HOLES. CUT THE PLUG OFF THE VACUUM CORD AND HARD WIRE IT TO THE WIRES ALREADY IN THE SMALL BOX.
13. INSTALL A CORROSION RESISTANT PADDLE FLOW SWITCH, MODEL FS1-6, MANUFACTURED BY KELE. WIRE THE SWITCH TO THE CHEMICAL CONTROLLER TERMINALS SUCH THAT THE SWITCH MUST BE ACTIVATED (INDICATING POSITIVE FLOW) FOR CHEMICALS TO FEED. POWER TO ALL CHEMICAL FEEDERS MUST BE DEACTIVATED IF EITHER THIS FLOW SWITCH OR THE ROTARY WHEEL FLOW SWITCH PROVIDED WITH THE CHEMICAL CONTROLLER ARE NOT ACTIVATED.

LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- D — DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL511 POOL A - ELECTRICAL SCHEMATIC
DETAIL VIEW
NOT TO SCALE

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100 Park Avenue | Beaver Dam, WI 53916
6200 North Beach Street, Suite 100 | Haltom City, TX 76137 | t 920.887.7375

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COLORADO LICENSED
BRIAN W. FREIBERT
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

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Description	Date:

Sheet title:
POOL A - ELECTRICAL SCHEMATIC

PL511

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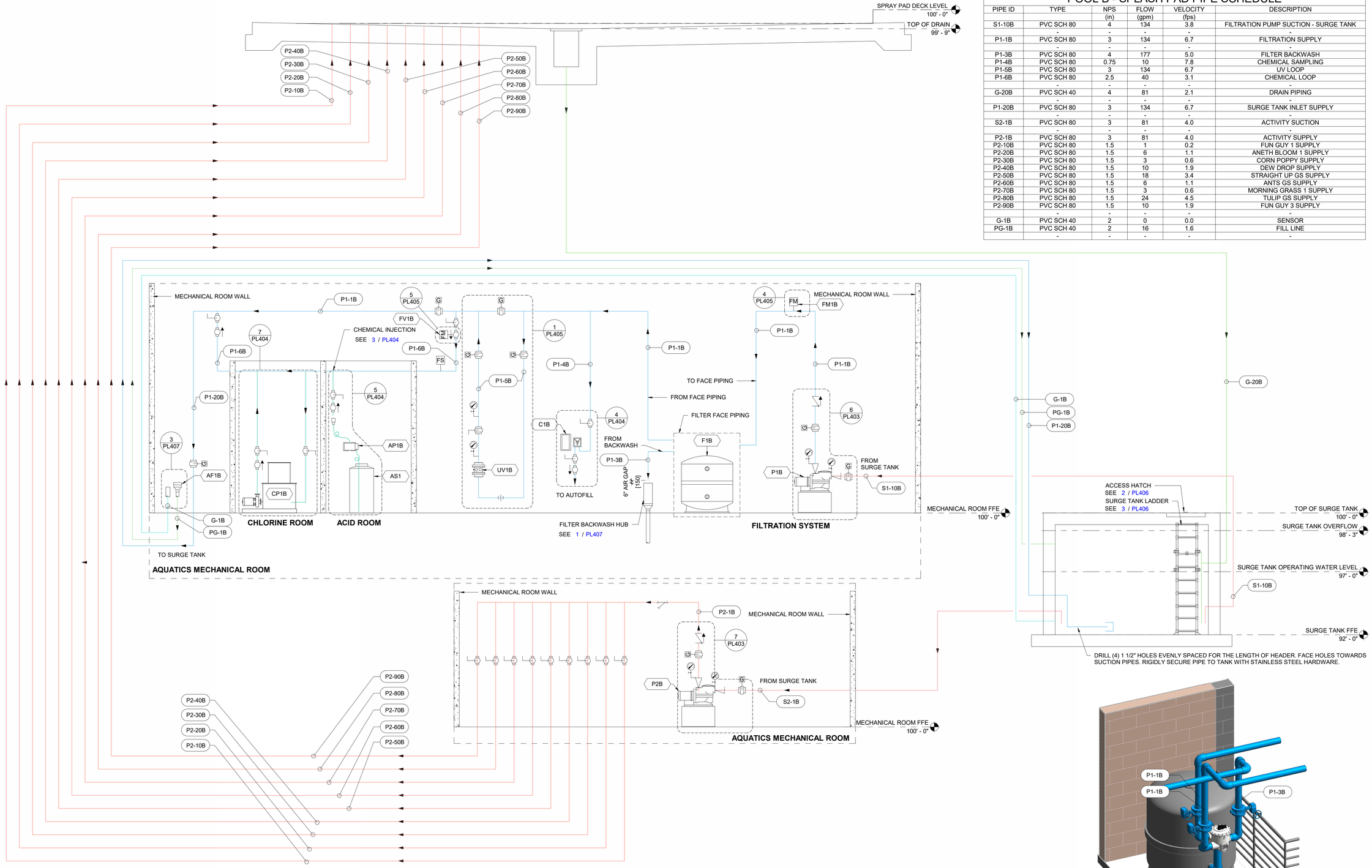
POOL B - SPLASH PAD PIPE SCHEDULE					
PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-10B	PVC SCH 80	4	134	3.8	FILTRATION PUMP SUCTION - SURGE TANK
	-	-	-	-	-
P1-1B	PVC SCH 80	3	134	6.7	FILTRATION SUPPLY
	-	-	-	-	-
P1-3B	PVC SCH 80	4	177	5.0	FILTER BACKWASH
P1-4B	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-5B	PVC SCH 80	3	134	6.7	UV LOOP
P1-6B	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
	-	-	-	-	-
G-20B	PVC SCH 40	4	81	2.1	DRAIN PIPING
	-	-	-	-	-
P1-20B	PVC SCH 80	3	134	6.7	SURGE TANK INLET SUPPLY
	-	-	-	-	-
S2-1B	PVC SCH 80	3	81	4.0	ACTIVITY SUCTION
	-	-	-	-	-
P2-1B	PVC SCH 80	3	81	4.0	ACTIVITY SUPPLY
P2-10B	PVC SCH 80	1.5	1	0.2	FUN GUY 1 SUPPLY
P2-20B	PVC SCH 80	1.5	6	1.1	ANETH BLOOM 1 SUPPLY
P2-30B	PVC SCH 80	1.5	3	0.6	CORN POPPY SUPPLY
P2-40B	PVC SCH 80	1.5	10	1.9	DEW DROP SUPPLY
P2-50B	PVC SCH 80	1.5	18	3.4	STRAIGHT UP GS SUPPLY
P2-60B	PVC SCH 80	1.5	6	1.1	ANTS GS SUPPLY
P2-70B	PVC SCH 80	1.5	3	0.6	MORNING GRASS 1 SUPPLY
P2-80B	PVC SCH 80	1.5	24	4.5	TULIP GS SUPPLY
P2-90B	PVC SCH 80	1.5	10	1.9	FUN GUY 3 SUPPLY
	-	-	-	-	-
G-1B	PVC SCH 40	2	0	0.0	SENSOR
PG-1B	PVC SCH 40	2	16	1.6	FILL LINE
	-	-	-	-	-



1 PL520 POOL B - MECHANICAL SCHEMATIC
DETAIL VIEW
NOT TO SCALE

2 PL520 SAND FILTER FACE PIPING

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6200 North Beach Street, Suite 100 | Haltom City, TX 76137 | t 920.887.7375

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COLORADO LICENSED
BRIAN W. FREIBERT
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

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POOL B - MECHANICAL SCHEMATIC

PL520

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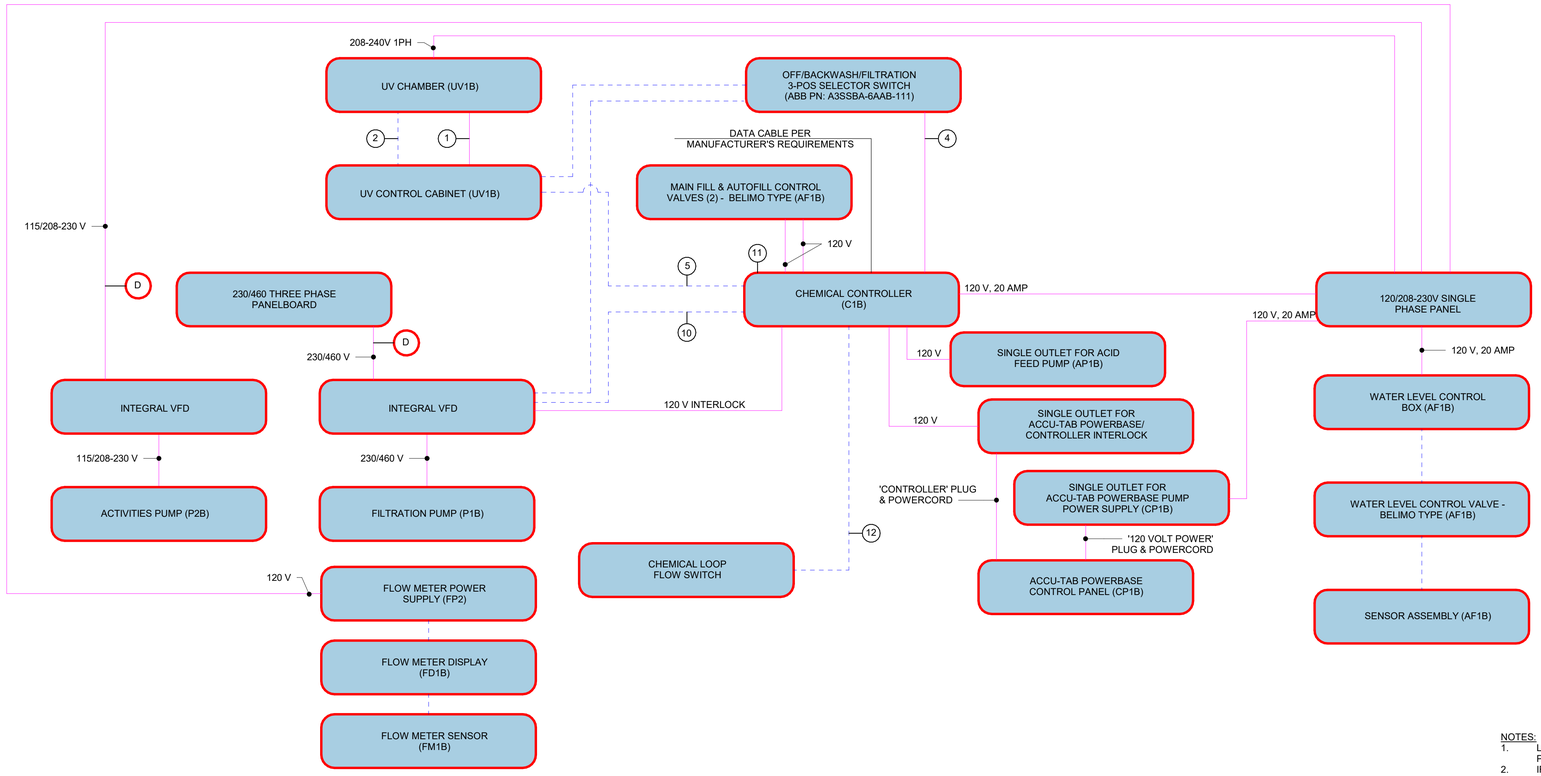

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH MANUAL BACKWASH SAND FILTER SYSTEM

FILTRATION PUMP MOTOR STARTER SELECTOR SWITCH ("OFF/BACKWASH/FILTRATION"):
- A THREE POSITION SELECTOR SWITCH SHALL BE PROVIDED FOR THE MOTOR STARTER/VFD WITH POSITIONS LABELED "OFF", "BACKWASH", AND "FILTRATION". SELECTOR SWITCH MANUFACTURED BY JMB/ABB, PART #A3SSBA-6AAB-111. THE SWITCH IS WIRED BETWEEN THE FILTER PUMP VFD AND THE CHEMICAL CONTROLLER TO DISABLE THE CHEMICAL FEED SYSTEM AS DESCRIBED BELOW.

"FILTRATION" POSITION:
- PLACE THE SWITCH IN THE "FILTRATION" POSITION FOR THE NORMAL FILTRATION OPERATING MODE OF THE SYSTEM.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "FILTRATION" POSITION, THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY) AND THE CHEMICAL CONTROLLER SHALL BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS.
- THE ACTUAL FLOW INFORMATION SHALL BE PROVIDED TO THE VFD BY THE FM TRANSMITTER. THE VFD SHALL ADJUST FREQUENCY AS REQUIRED TO ACHIEVE SYSTEM DESIGN FLOW.
- THE CHEMICAL CONTROLLER SHALL BE WIRED TO THE CHEMICAL FEED OUTLETS AND SHALL ENERGIZE/DE-ENERGIZE THESE OUTLETS BASED UPON POOL WATER CHEMISTRY.
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER CHLORINE FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE FEED BOOSTER PUMP IS ACTIVATED BY THE ACCU-TAB POWERBASE CONTROLLER.
- THE ACID FEED PUMP IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER PH FEED OUTLET.
- IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

"BACKWASH" POSITION:
- PLACE THE SWITCH IN THE "BACKWASH" POSITION WHEN BACKWASHING THE FILTERS.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "BACKWASH" POSITION, THE FILTRATION PUMP SHALL RUN, BUT THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

"OFF" POSITION:
- PLACE THE SWITCH IN THE "OFF" POSITION TO TURN THE PUMP AND FILTRATION SYSTEM OFF.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "OFF" POSITION, THE FILTRATION PUMP SHALL BE OFF AND THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

IN-LINE FLOW SWITCH :
- THE IN-LINE FLOW SWITCH IS USED TO PROVE FLOW TO THE CHEMICAL CONTROLLER.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE, THE IN-LINE FLOW SWITCH IS NOT MADE OR THE SELECTOR SWITCH IS IN THE OFF OR BACKWASH POSITIONS; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.
- INSTALL ELECTRICAL INTERLOCK BETWEEN THE CHEMICAL CONTROLLER AND FILTRATION PUMP VFD AS INSTRUCTED BY THE CHEMICAL CONTROLLER INTALLATION MANUAL. THE INTERLOCK SHALL DE-ENERGIZE AND PREVENT OPERATION OF THE CHEMICAL FEEDERS WHEN THE FILTRATION PUMP IS OFF, LOSES POWER, OR IS NOT IN FILTRATION MODE.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

ACCU-TAB POWERBASE CHLORINE FEEDER:
- THE ACCU-TAB POWERBASE CONTROLLER IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER FEED OUTLET.
- THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS POWERED BY THE PANELBOARD. THE ACCU-TAB POWERBASE CHLORINE BOOSTER PUMP IS ALWAYS ON.
- THE ACCU-TAB POWERBASE CONTROLLER ACTIVATES THE ACCU-TAB POWERBASE CHORINE BOOSTER PUMP.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

ULTRAVIOLET (UV) DISINFECTION UNIT:
- THE UV UNIT IS NORMALLY ON.
- THE UV UNIT SHALL BE INTERLOCKED SUCH THAT IF THE SELECTOR SWITCH IS IN THE BACKWASH POSITION THE UV SHALL BE TURNED OFF.
- THE UV NORMALLY RUNS IN VARIABLE POWER MODE.
- COMBINED CHLORINE UV CONTROL: WITH FREE AND TOTAL CHLORINE SENSORS, THE CONTROLLER SHALL PROVIDE UV BOOST CONTROL OF A UV SYSTEM BASED UPON THE COMBINED CHLORINE SET POINT. WHEN COMBINED CHLORINE IS ABOVE THE SET POINT THE UV SYSTEM SHALL BOOST TO 100% TO INCREASE THE CHLORAMINE DESTRUCTION RATE. THE UV SHALL RETURN TO VARIABLE POWER MODE ONCE COMBINED CHLORINE DROPS BELOW THE SET POINT.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL BOOSTER PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID FEED	UV
OFF	O	O	X	O	O	O
BACKWASH	X	O	X	O	O	O
FILTRATION	X	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. WIRING (LAMP POWER CORD) FURNISHED WITH UV UNIT AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FINAL CONNECTIONS TO UV CHAMBER AND CONTROL CABINET BY POOL CONTRACTOR
2. FURNISHED WITH UV UNIT AND INSTALLED BY POOL CONTRACTOR
3. NOT USED.
4. FILTRATION PUMP VFD INTERLOCK WITH THE CHEMICAL FEEDER PUMP'S. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH, OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL DEACTIVATE CHEMICAL FEED TO THE SYSTEM. AS DESCRIBED IN THE "SEQUENCE OF OPERATIONS"
5. UV BOOST SIGNAL BASED ON COMBINED CHLORINE.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. NOT USED.
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. INSTALL A CORROSION RESISTANT PADDLE FLOW SWITCH, MODEL FS1-6, MANUFACTURED BY KELE. WIRE THE SWITCH TO THE CHEMICAL CONTROLLER TERMINALS SUCH THAT THE SWITCH MUST BE ACTIVATED (INDICATING POSITIVE FLOW) FOR CHEMICALS TO FEED. POWER TO ALL CHEMICAL FEEDERS MUST BE DEACTIVATED IF EITHER THIS FLOW SWITCH OR THE ROTARY WHEEL FLOW SWITCH PROVIDED WITH THE CHEMICAL CONTROLLER ARE NOT ACTIVATED.

LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL521 POOL B - ELECTRICAL SCHEMATIC
DETAIL VIEW
NOT TO SCALE

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COLORADO LICENSED
BRIAN W. FREIBERT
PROFESSIONAL ENGINEER
P.E.0042920
03/26/2026

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

Project Number:	25204.02
Issue:	100% CD SET
Date:	03/26/2026
Drawn By:	MDG
Checked By:	JRB

Revisions:

Description	Date:

Sheet title:

POOL B - ELECTRICAL SCHEMATIC

PL521

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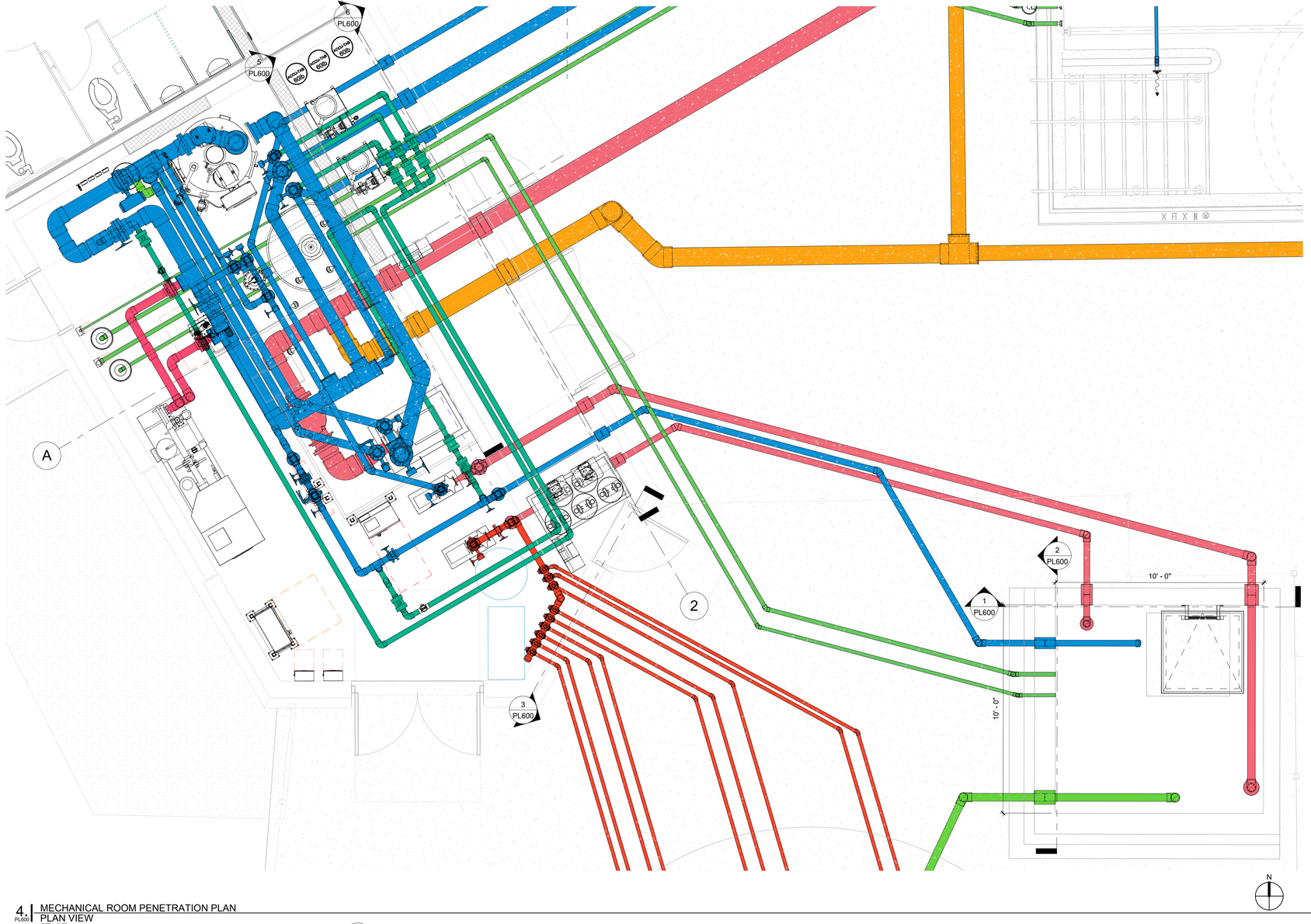


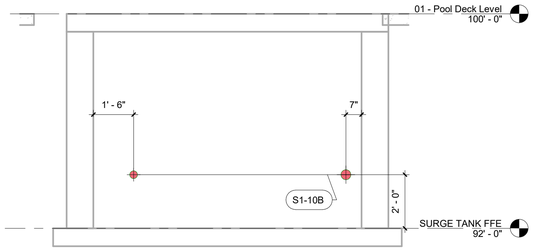
4. MECHANICAL ROOM PENETRATION PLAN
PL600 PLAN VIEW
3/8" = 1'-0"

POOL A - LEISURE POOL PENETRATION SCHEDULE

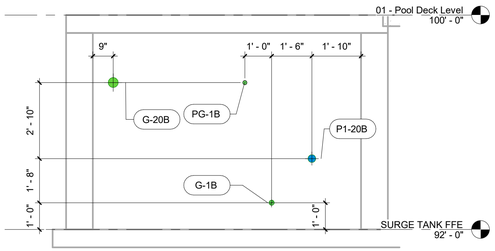
PIPE ID	DETAIL	NPS (in)	SLEEVE MODEL #	DESCRIPTION
S1-1A	6&7/PL600	10	CS-14	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10A	6&7/PL600	10	CS-14	FILTRATION PUMP SUCTION - SKIMMER
P1-20A	7/PL600	3	CS-5	INLET SUPPLY (60 MIN TO)
P1-40A	7/PL600	6	CS-10	INLET SUPPLY (120 MIN TO)
P1-60A	7/PL600	4	CS-6	INLET SUPPLY (240 MIN TO)
PG-1A	3/PL600	2	CS-4	FILL LINE
G-2A	2/PL600	0.75	CS-3	CONDUIT
		-	-	-

POOL B - SPLASH PAD PENETRATION SCHEDULE

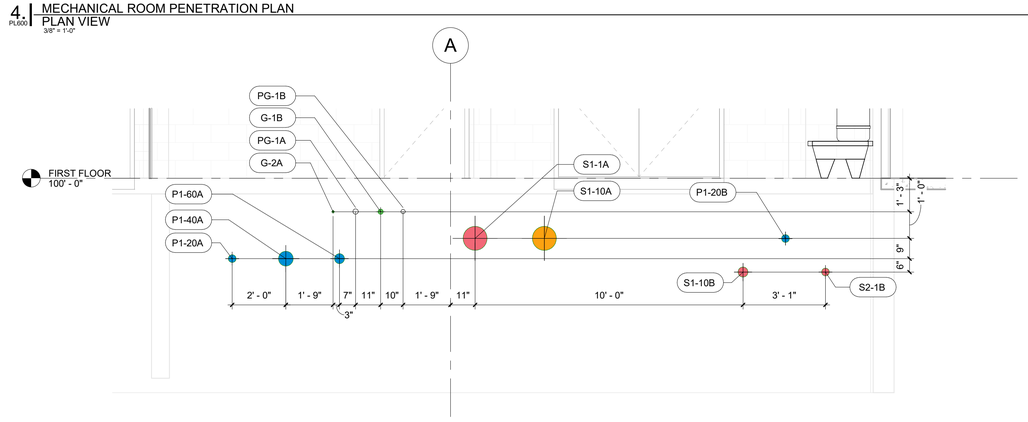
PIPE ID	DETAIL	NPS (in)	SLEEVE MODEL #	DESCRIPTION
S1-10B	7/PL400	4	CS-6	FILTRATION PUMP SUCTION - SURGE TANK
P1-20B	7/PL400	3	CS-5	SURGE TANK INLET SUPPLY
S2-1B	7/PL400	3	CS-5	ACTIVITY SUCTION
P2-10B	4/PL400	1.5	CS-3-1/2	FUN GUY 1 SUPPLY
P2-20B	4/PL400	1.5	CS-3-1/2	ANETH BLOOM 1 SUPPLY
P2-30B	4/PL400	1.5	CS-3-1/2	CORN POPPY SUPPLY
P2-40B	4/PL400	1.5	CS-3-1/2	DEW DROP SUPPLY
P2-50B	4/PL400	1.5	CS-3-1/2	STRAIGHT UP GS SUPPLY
P2-60B	4/PL400	1.5	CS-3-1/2	ANTS GS SUPPLY
P2-70B	4/PL400	1.5	CS-3-1/2	MORNING GRASS 1 SUPPLY
P2-80B	4/PL400	1.5	CS-3-1/2	TULIP GS SUPPLY
P2-90B	4/PL400	1.5	CS-3-1/2	FUN GUY 3 SUPPLY
PG-1B	7/PL400	2	CS-4	FILL LINE
G-1B	7/PL400	2	CS-4	SENSOR
		-	-	-



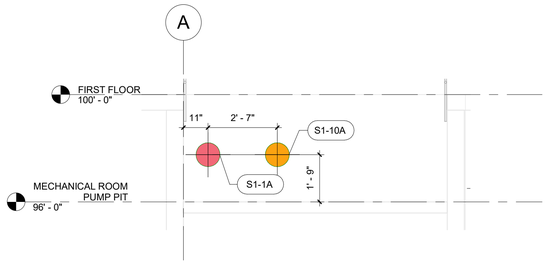
1 PL600 SURGE TANK PENETRATIONS (NORTH WALL)
SECTION VIEW
3/8" = 1'-0"



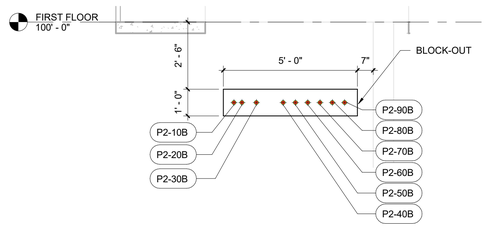
2 PL600 SURGE TANK PENETRATIONS (WEST WALL)
SECTION VIEW
3/8" = 1'-0"



6 PL600 MECHANICAL ROOM PENETRATIONS (NORTH EAST EXTERIOR WALL)
SECTION VIEW
3/8" = 1'-0"



5 PL600 MECHANICAL ROOM PUMP PIT PENETRATIONS (NORTH EAST INTERIOR WALL)
SECTION VIEW
3/8" = 1'-0"



3 PL600 MECHANICAL ROOM PUMP PIT PENETRATIONS (SOUTH EAST WALL)
SECTION VIEW
3/8" = 1'-0"

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COLORADO LICENSED
BRIAN W. FRISBEE
P.E.0042920
03/26/2026
PROFESSIONAL ENGINEER

Superior South Pool

3300 Huron Peak Ave, Superior, CO 80027

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Description	Date:

Sheet title:

PIPE PENETRATIONS

PL600

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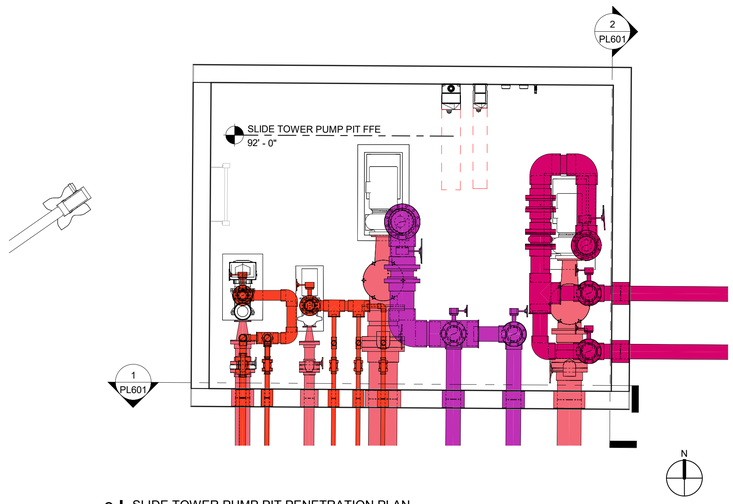
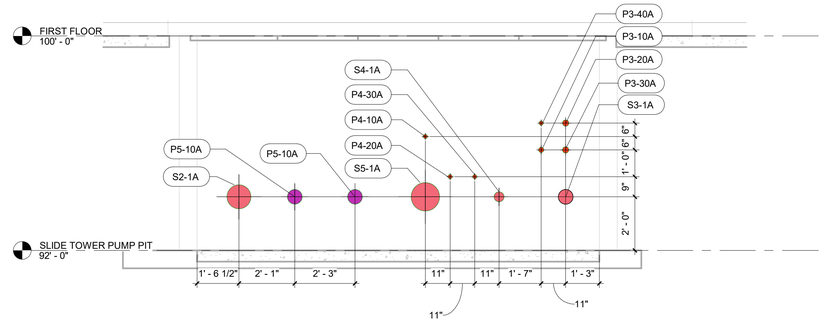
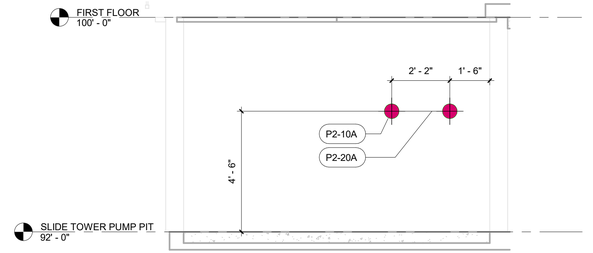
POOL A - LEISURE POOL PENETRATION SCHEDULE				
PIPE ID	DETAIL	NPS (in)	SLEEVE MODEL #	DESCRIPTION
S2-1A	3/PL601	10	CS-14	SLIDE SUCTION
P2-10A	3/PL601	6	CS-10	SLIDE SUPPLY AT ENTRY
P2-20A	3/PL601	6	CS-10	SLIDE SUPPLY AT TRANSITION
S3-1A	3/PL601	6	CS-10	ZDE FEATURES SUCTION
P3-10A	3/PL601	2	CS-4	PLAYSTRUCTURE SUPPLY
P3-20A	3/PL601	2.5	CS-4	ZDE GEYSER SUPPLY
P3-30A	3/PL601	2.5	CS-4	ZDE DECK SPRAY SUPPLY
P3-40A	3/PL601	1.5	CS-3-1/2	FS FLUTTERBY SUPPLY
S4-1A	3/PL601	4	CS-6	RIVER FEATURE SUCTION
P4-10A	2/PL601	2	CS-4	RIVER GEYSER SUPPLY
P4-20A	2/PL601	1.5	CS-3-1/2	FS RESTORATIVE SPRAY 1 SUPPLY
P4-30A	3/PL601	1.5	CS-3-1/2	FS RESTORATIVE SPRAY 2 SUPPLY
S5-1A	3/PL601	12	CS-16	PROPULSION SUCTION
P5-10A	3/PL601	6	CS-10	PROPULSION SUPPLY
		-	-	-



3 | SLIDE TOWER PUMP PIT PENETRATION PLAN
PLAN VIEW
3/8" = 1'-0"



1 | SLIDE TOWER PUMP PIT ELEVATION (SOUTH WALL)
SECTION VIEW
3/8" = 1'-0"



2 | SLIDE TOWER PUMP PIT ELEVATION (EAST WALL)
SECTION VIEW
3/8" = 1'-0"

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PIPE PENETRATIONS

PL601

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