



**Planning & Zoning Commission
Tuesday, April 16, 2024, 6:00 PM
Public Meeting Room / Eagle Town Hall
200 Broadway, Eagle, CO 81631**

This agenda and the meetings can be viewed at www.Townofeagle.org.

PUBLIC WIFI – Eagle Guest

MEETING ACCESS INFORMATION AND PUBLIC PARTICIPATION

1. This will be an in-person meeting with access via Microsoft Teams. First-time users of Teams will need to download the app.

Microsoft Teams meeting

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Please Note: All participants must remain muted until they are requested to speak. This will reduce background noise disruptions for all meeting attendees. When it is your turn to speak, you will have three (3) minutes for public comment. For technical difficulties, please email denise.cardoza@townofeagle.org and we will do our best to assist you.

PUBLIC COMMENTS: If you are unable to attend, public comments regarding any items on this agenda can be submitted to the Planning Department at Planning@townofeagle.org and will be included as part of the record.

6:00 PM - REGULAR MEETING CALLED TO ORDER

OATHS OF OFFICE

1. Bill Nutkins, Planning and Zoning Commission Member
2. Keith Klesner, Planning and Zoning Commission Member
3. Keegan Winkeller, Planning and Zoning Commission Member
4. Jennifer Sturgeon, Planning and Zoning Commission Member, First Alternate

BUSINESS ITEMS

1. Commission to appoint Chair Pro-Tem

APPROVAL OF MINUTES *Approval of minutes from the following meeting(s) of the Planning & Zoning Commission.*

1. Minutes 12.19.23

PUBLIC COMMENT

Citizens are invited to comment on any item not on the agenda subject to a public hearing. Please limit your comments to three (3) minutes per person. Those who are speaking are requested to state their name & address for the record.

PUBLIC HEARINGS

1. Project: DR24-02 Eagle Pool Replacement Project
File # DR24-02
Applicant: Town of Eagle / Mountain Recreation
Location 1700 Bull Pasture Rd.
Staff Contact: Jessica Lake, Planner II
Request: A Minor Development Plan application to expand the Pool & Ice Rink building by roughly 1,600 sf and to demolish and rebuild the outdoor pool area and surrounding landscaping
2. Project: ReCode Adjustments
File # LUDC24-01
Applicant: Town of Eagle
Location Town of Eagle
Staff Contact: Planning Department
Request: A LUDC text amendment to resolve inconsistencies, provide clarity and correct omissions for several items within the Land Use and Development Code (LUDC).

COMMUNITY DEVELOPMENT DEPARTMENT AND TOWN COUNCIL UPDATE

Staff update to the Planning & Zoning Commission on recent work, upcoming files and decisions made by Town Council.

1. April Community Development Update

OPEN DISCUSSION

ADJOURN

I hereby certify that the above Notice of Meeting was posted by me in the designated location at least 24 hours prior to said meeting.

Denise Cardoza

Denise Cardoza
Administrative Technician II



OATH

I, Bill Nutkins, so solemnly swear that I will support the Constitution and laws of the United States, the Constitution and laws of the State of Colorado, and the Ordinances and Codes of the Town of Eagle, and that I will faithfully perform all duties of Planning Commission Member, upon which I am about to enter.

Sworn to this 16th day of April, 2024.

Bill Nutkins, Commission Member

Larry Pardee, Town Manager



OATH

I, Keith Klesner, so solemnly swear that I will support the Constitution and laws of the United States, the Constitution and laws of the State of Colorado, and the Ordinances and Codes of the Town of Eagle, and that I will faithfully perform all duties of Planning Commission Member, upon which I am about to enter.

Sworn to this 16th day of April, 2024.

Keith Klesner, Commission Member

Larry Pardee, Town Manager



OATH

I, Keegan Winkeller, so solemnly swear that I will support the Constitution and laws of the United States, the Constitution and laws of the State of Colorado, and the Ordinances and Codes of the Town of Eagle, and that I will faithfully perform all duties of Planning Commission Member, upon which I am about to enter.

Sworn to this 16th day of April, 2024.

Keegan Winkeller, Commission Member

Larry Pardee, Town Manager



OATH

I, Jennifer Sturgeon, so solemnly swear that I will support the Constitution and laws of the United States, the Constitution and laws of the State of Colorado, and the Ordinances and Codes of the Town of Eagle, and that I will faithfully perform all duties of Planning Commission Member, upon which I am about to enter.

Sworn to this 16th day of April, 2024.

Jennifer Sturgeon, Commission Member

Larry Pardee, Town Manager



MEETING MINUTES
Planning & Zoning Commission
December 19th, 2023, 6:00 PM
Public Meeting Room / Eagle Town Hall
200 Broadway, Eagle, CO 81631

This agenda and the meetings can be viewed at www.Townofeagle.org.

PUBLIC WIFI – Eagle Guest

MEETING ACCESS INFORMATION AND PUBLIC PARTICIPATION

This was an in-person meeting with an option for the public to attend via Teams.

6:01 PM - REGULAR MEETING CALLED TO ORDER

COMMISSIONERS PRESENT

Matt Hood, Bill Nutkins, Keith Klesner, Keith Montag, Laura Hartman
Weston Arbogast, Jennifer Sturgeon

COMMISSIONERS ABSENT

Keegan Winkeller

STAFF

Cliff Simonton – Interim Com Dev Director
Peyton Heitzman – Senior Planner
Jessica Lake – Planner II
Tez Hawkins - Planner
Denise Cardoza – Com Dev Admin

Oaths

1. Laura Hartman
2. Jennifer Sturgeon

APPROVAL OF MINUTES

3. Minutes dated September 19th, 2023
4. Minutes dated October 17th, 2023

The minutes were approved as presented.

PUBLIC COMMENT

There was no public comment.

Chair Hood Opened land use file DR23-01

PRESENTATIONS

Project: Stone Concepts Minor Development Permit

File # DR23-01

Applicant: Stone Concepts, 85 Marmot, LLC

Location: 85 Marmot Lane

Staff Contact: Tez Hawkins, Planner

Request: 85 Marmot, LLC and Stone Concepts has submitted a Minor Development Permit Application for a warehouse and assembly building in the Industrial zone district for the property located 85 Marmot Lane. Staff reviewed the arial of the property. Confirmed there is an application into the town to combine 2 lots. Reviewed site plan. Proposing 3 buildings with commercial on the bottom floor and residential on the 2nd story. Residentials will be considered accessory units.

Tez Hawkins is the staff contact presenting the file DR23-01. Staff reviewed the ariel view of 85 Marmot In. and confirmed it is in the Industrial Zone District. Staff noted that this application was submitted under the previous Land Use and Development Code. No public comment has been received.

Stone Concepts currently owns 3 properties on Chambers. Product from the current building will be moved to the proposed warehouse.

The warehouse will house office space and a workshop. Stucco and earthtones will be utilized as well as downcast lighting.

Staff confirmed public hearing notices standards were followed.

Staff reviewed Lighting, Landscaping, Erosion and sediment control, stabilization and revegetation, General Architectural standards, Development impact report, Parking and Fire protection. Staff concludes that all these standards have been met.

Staff reviewed the goals in the Comprehensive plan and concluded that all goals have been met or exceeded.

Sustainability standards were exceeded, staff reviewed the applicant's sustainability initiatives.

Industrial uses standards were exceeded.

Staff did not discover any issues during the review of this application.

SUMMARY AND RECOMMENDATION

Staff recommends approval of Minor Development Permit Application DR23-01 based on the Proposed Development's conformance with Chapters 4.04 and 4.05 of the Code and the 2021 Elevate Eagle Comprehensive Plan (the "Comp Plan").

Commissioners Discussion:

Commissioner Montag requested clarification of slab storage and what will happen with the empty space when the current slabs are moved to the new warehouse. The applicant confirmed that currently the 1210 Chambers location is being utilized as their office building and fabrication facility. All raw materials will be moved indoors to the current office building and be utilized as an in-door showroom and storage facility. The slabs of raw material are currently being stored outdoors where the proposed building will be erected. Chair Hood requested clarification on whether the storage area that qualifies for the special use permit will continue to be utilized as a storage facility. Applicant: For current time yes, our intentions is to utilize that as overflow storage and keep the special use permit in place. Staff added that the special use permit will be null and void if the property is sold or changes hands.

Commissioner Klesner requested clarification on whether the lighting proposed was dark skies lighting compliant with the current code – referred to the dev plan. Staff confirmed that the original fixtures proposed were using non-compliant bulbs but have been revised and are currently compliant.

Chair Hood opened public comment

There was no public comment. Public comment closed.

SUMMARY AND RECOMMENDATION

Staff recommends approval of Minor Development Permit Application DR23-01 based on the Proposed Development's conformance with Chapters 4.04 and 4.05 of the Code and the 2021 Elevate Eagle Comprehensive Plan (the "Comp Plan").

ITEMS FOR DISCUSSION

Commissioner Hartman did not add additional comment for the land use file presented but added that the staff presentation was sufficient all commissioners agreed. Arbogast commented on the lighting fixtures. Chair Hood voiced appreciation on the type of development approved and the need for these types of developments in Eagle. Chair Hood also expressed appreciation and is fully in support of this file.

Motion:

Commissioner Hartman: I Move to approve File Number DR23-01, Stone Concepts Minor Development Permit Application with no conditions due to the finding of fact that the development meets the Elevate Eagle Comprehensive Plan

Commissioner Montag seconded the motion.

All in favor, none opposed: Motion carries.

Chair hood closed the file DR23-01

Open discussion

P&Z report

Discussion regarding public interface with P&Z Members

ADJOURN

MOTION: Commissioner Klesner motioned to adjourn.

Meeting adjourned at 6:30 PM.

DRAFT



STAFF REPORT AND CERTIFICATE OF RECOMMENDATION

TO: Planning & Zoning Commission

FROM: Community Development Department

DATE: April 16, 2024

STAFF: Jessica Lake, Planner, Jessica.lake@townofeagle.org

PROJECT: Eagle Pool Replacement Project

REQUEST: A Minor Development Plan application to expand the Pool & Ice Rink building by roughly 1,700 sf and to demolish and rebuild the outdoor pool area and surrounding landscaping.

FILE NUMBER: DR24-02

APPLICANT: Town of Eagle / Mountain Recreation

LOCATION: 1700 Bull Pasture Rd.

CODE: Section 4.17.080.C Development Plan
Chapter 4.02 Zone Districts: General Standards
Chapter 4.06 Public and Civic Districts
Chapter 4.09 Use Standards
Chapter 4.10 Site Layout and Structure Design Standards
Chapter 4.11 Landscaping, Screening and Fencing Standards
Chapter 4.12 Parking and Loading Standards
Chapter 4.13 Outdoor Lighting
Chapter 4.14 Sustainability, Resilience, and Hazards

ZONING: Public and Civic Campus (PC1) Zone District

EXHIBITS: A: Application Form
B: Project Narrative
C: Design Development Plan Set
D: Updated Plan Set
E: Final Plat

PUBLIC COMMENT: Staff has not received any letters of public comment as of April 12, 2024. Letters received after this time will be gathered and entered into the public record at the hearing.

INTRODUCTION

The Town of Eagle owns the land at 1700 Bull Pasture Rd. and Mountain Recreation operates the facilities on the site. An application has been submitted for a Minor Development Plan to expand the Pool & Ice Rink building by roughly 1,700 sf and to demolish and rebuild the outdoor pool area and surrounding landscaping. The property is 19.60 acres, which equates to roughly 853,776 sf. Zoning for this property is Public and Civic Campus (PC1). The lot is shown in the image below with a wide red line. The scope of this project is limited to the northwestern portion of the lot, as indicated by the blue line in the image below:

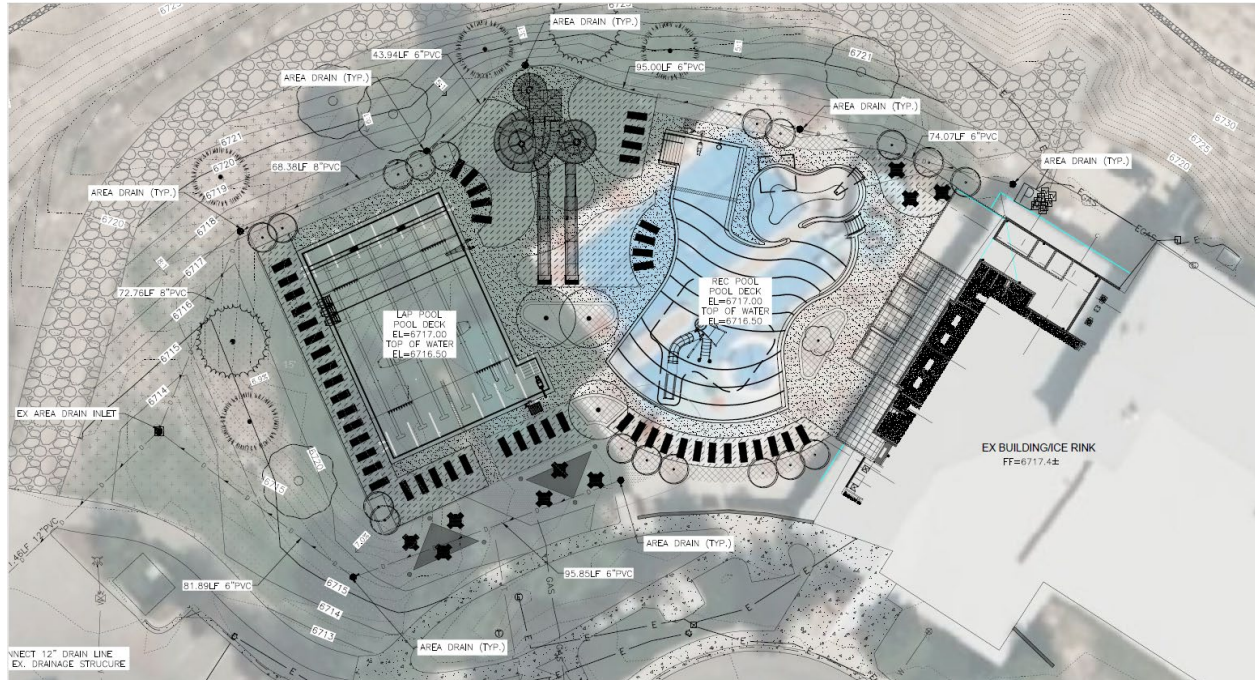


Surrounding ownership and uses include Town of Eagle owned open space to the north of the property, BLM to the northeast, Haymeadow Tract E to the east, Soleil Homes to the south, Brush Creek Townhomes to the southwest, and the Orchard to the west. The Orchard, Brush Creek Village Townhomes and Soleil Homes are all residential uses, the Town land and BLM land to the north and northwest are designated as open space and Haymeadow Tract E was dedicated to the Town for recreation and school land purposes.

There are existing indoor and outdoor recreation uses at the subject property, including an outdoor public pool and an ice rink contained within an Indoor Recreation Facility that is greater than 6,500 sf. The portion of the building that contains the ice rink is not a part of this application. There are also tennis courts, a bike park, and a trailhead, which are not a part of this application. None of the existing uses are changing with this application. Since no new uses are proposed and the adoption of the 2023 LUDC did not create any non-conforming uses, a “use review” for this application is not triggered. The proposed expansion of facilities does trigger the review of a Minor Development Plan.

The proposed building expansion will occur on the northwest side of the building, which leads out to the pool area. The expanded facility will include a larger locker room and changing area, as well as the pump pit and pool mechanical room. The outdoor pool area will be demolished and re-built to include a new leisure pool with a zero-depth entry area, deep end, and a current channel, a separate lap/competition

pool, new pool deck, new landscaping, as well as the potential for future shade structures, pool play elements, and a water slide.



Topographically, the project site includes several plateaus and slopes. A retaining wall will be added between an existing access drive and the landscaped area for the pool, which allows for a full regrading of the site and for a space that can accommodate two pools, landscaping and decking. If this application for a Minor Development Plan is approved, the project team will move towards grading, demo and building permits and hopes to start work as soon as possible. Over the past few years, significant work has been done to evaluate this site as well as alternative sites for the pool(s). The result of this extensive evaluation was that the existing pool site location was determined to be the best site overall for the new pool facilities. Impacts to the surrounding properties will remain the same from when the pool facilities were functional. The topography of the site naturally helps to minimize impacts on the Orchard neighborhood as it is set lower into the surrounding terrain, which helps to limit visibility from the nearby residential properties and minimize noise escaping from the site.

ISSUES FOR DISCUSSION

1. No issues have been identified.

STANDARDS FOR MINOR DEVELOPMENT PLAN

STANDARD #1: Land Use and Development LUDC Requirements

That the development plan is consistent with all applicable standards of this LUDC.

Staff reviewed the development application against the relevant Town regulations in Title 4 of the Municipal Code (“Code”). Applicable chapters from the Code include:

- 1) Chapter 4.02 Zone Districts: General Standards
- 2) Chapter 4.06 Public and Civic Districts
- 3) Chapter 4.09 Use Standards
- 4) Chapter 4.10 Site Layout and Structure Design Standards
- 5) Chapter 4.11 Landscaping, Screening and Fencing Standards

- 6) Chapter 4.12 Parking and Loading Standards
- 7) Chapter 4.13 Outdoor Lighting
- 8) Chapter 4.14 Sustainability, Resilience, and Hazards

CHAPTER 4.02 – ZONE DISTRICTS: GENERAL STANDARDS

Section 4.02.040 – Dimensional Standards Applicable to all Zone Districts.

Staff Comment: This section of the Code provides overarching requirements for all zone districts, such as: clear vision areas, maximum density not guaranteed, setback projections and encroachments, height limit exceptions, and ground level first floor. The Eagle Pool Replacement Project is within the allowed regulations for all of the applicable dimensional standards. More information is provided below under the PC1 Zone District review.

CHAPTER 4.06 – PUBLIC AND CIVIC DISTRICTS

Section 4.06.020 – Public and Civic Campus (PC1).

PC1 Lot and Dimensional Standards

Table 4.06-2: PC1 Lot and Dimensional Standards		
	PC1 District Standards	Eagle Pool Project Compliance
Lot Standards		
Lot Area, total (sf, min)	7,500	834,609.6 sf
Lot Coverage (% max)	80	14.4%
Building Placement		
Setbacks	Measured at lot boundary only, internal building separation shall meet life safety code standards.	
Front (ft, min)	25	No change
Street Side (ft, min)	15	n/a
Interior Side (ft, min)	12.5	No change
Rear (ft, min)	25	104'
Live Stream Setback (ft, min)	75	n/a
Building Standards		
Height (ft, max)	35'	12' (max height of addition)
Parking		
Location	Parking shall be located internal to the campus and at least 50 ft from any exterior property line.	n/a

Staff Comment: As provided above, the Pool Project is in conformance with all the required dimensional standards.

There is a dimensional standard that would be considered legal non-conforming on the, which is the distance from the existing parking lot to the property line. The new code requires this distance to be a minimum of 50', but the edge of the parking lot is only 45' from this line. Staff finds that because the parking lot is not required to change with this application and no changes are being proposed, this would be considered a legal non-conforming site requirement. Any new parking areas constructed within the lot or changes to existing parking lots that do not comply with the requirements would need to come into compliance at that time.

The maximum height of the addition as measured from under the existing roof line to the existing grade is roughly 12'. The height of the addition is substantially lower than the overall height of the building.

CHAPTER 4.09 – USE STANDARDS

Section 4.09.030. – Uses Permitted by District (Use Tables).

Table 4.09-1: Primary Use Table																
Zone Districts	Residential Districts					Rural and Agriculture Districts			Mixed-Use, Commercial and Industrial Districts							Govt. and Civic Districts
	R1	R2	R3	R4	OTR	RR1	RR2	R	CMU1	CMU2	BD	CG	CGE	CI	IND	PC1
KEY: P = Permitted / M = Minor Review (no notice) / A = Administrative Review / C = Conditional Use / S = Special Use / - = Not Permitted																
Use definitions are located in Section 4.20.050, Use Category Definitions																
PUBLIC, CIVIC, INSTITUTIONAL, EDUCATIONAL, AND HEALTHCARE (Use category description Sec. 4.9.20C)																
Recreation Facility, indoors (>6,500 sf)	-	-	-	-	-	-	-	-	-	P	-	P	P	P	-	P
Recreation Facility, outdoors	-	-	-	-	-	-	-	P	-	-	-	-	-	-	-	P
Shooting/Archery Range, indoors	-	-	-	-	-	-	-	-	-	-	-	S	S	-	S	-
Swimming Pool, outdoor, public	-	-	-	-	-	-	-	M	-	-	-	-	-	-	-	M

Staff Comment: As shown in the table above, a Recreation Facility, indoors (>6,500 sf) and a Recreation Facility, outdoors are permitted uses in the PC1 zone district and a Swimming Pool, outdoor, public is also permitted, with a minor use review for new uses, in the PC1 zone district. Since the uses on this portion of the site are not changing and no new uses are proposed, a use review is not required for this project.

Section 4.09.040 – Standards Applicable to All Uses.

Applicability – The Director shall review all use applications for compliance with this LUDC. The Director may recommend (for Conditional Use Permit or Special Use Permit applications) or require (for Administrative Review) mitigation measures as deemed necessary to bring the application into compliance with this LUDC.

Staff Comment: It is the Director’s interpretation that when uses are not proposed to be changed in any way from what currently exists on the site, a use review process is not required.

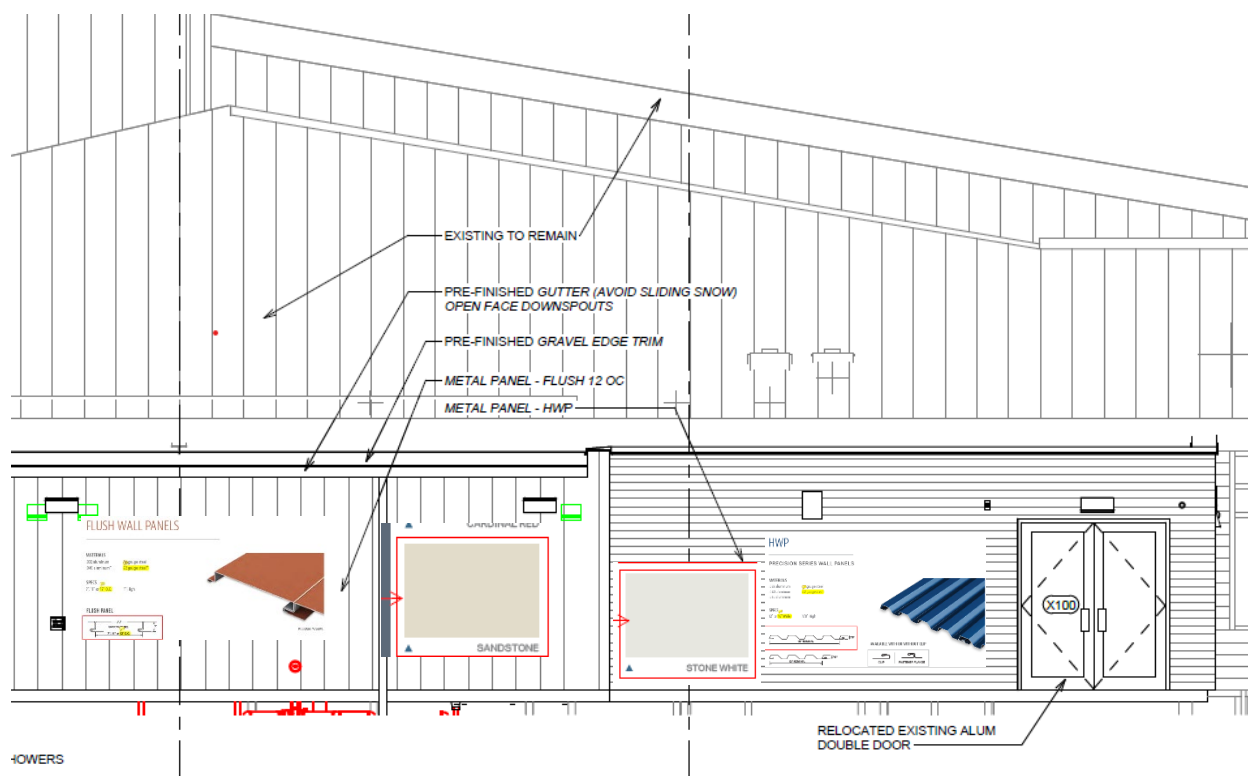
CHAPTER 4.10 – SITE LAYOUT AND STRUCTURE DESIGN STANDARDS

Section 4.10.030. – Design Standards Applicable to all Sites and Structures.

- A. **Site Design.** Site Design includes requirements for both Access and Connectivity and Building and Facilities Placement.
- B. **Structure Design Standards.** Structure design standards include requirements for Permitted Façade Materials, Roofs/Eaves/Parapets, Color and Reflectivity, and Sidewalks and Furnishings.

Staff Comment: The site design for this portion of the property remains the same in terms of both access and connectivity and buildings and facilities placements.

The exterior wall materials proposed are a flush 22-gauge steel wall panel in Sandstone and a HWP 22-gauge steel wall panel in Stone White. “Patinaed or color-treated metal may be used on accent wall surfaces” and “additional materials with similar durability may be approved by the Director.”



The existing wall that runs along the pool area is mainly a red and grey concrete block, with a metal paneled accent area behind a concrete block wall where the shower room access points are. The entirety of the ice rink side of the building is metal paneling in an off-white and grey/green, which was installed vertically. The front entry to the building has large windows, horizontal siding and concrete block. The metal siding on the addition will be mainly installed vertically with a horizontal accent area. The Code allows for *color-treated metal to be used on accent wall surfaces*. However, the Code also states that *building materials for walls shall be selected for their appearance and ability to withstand the extremes of the area's mountain climate* and that *additional materials with similar durability may be approved by the Director*. The Director has reviewed the selected color palette and materials and approved the use of painted metal siding as this is the predominant material on the Pool & Ice Rink building and the materials have been shown to be durable and able to withstand changing weather conditions for Eagle. Staff finds that the selected colors are complimentary to each other, the existing colors on the building, the natural setting and the surrounding neighborhood.

The roof currently stretches out several feet from the wall and is currently the more noticeable feature. The roof will remain as is and is a metal standing seam in an off-white color, similar to the existing metal siding on the ice rink side and on the roof bump up near the pool side of the building. Part of the addition has a flat roof, which will be an 80mil PVC membrane, sloped at a minimum of $\frac{1}{4}$ " per foot with heat trace in the valleys and downspouts. The Code does not currently provide for roofing materials that would be appropriate for a flat roof but does allow for the Director to approve other materials of equivalent durability. Concurrent with the building permit review the Building Official and Director will review the roofing material, slope, drainage, and heat trace for compliance with Building Code standards and LUDC standards and render comments and/or a determination at that time.

Section 4.10.060. – Erosion and Sedimentation Control.

Purpose and Applicability. *The purpose of this section is to preserve natural drainage patterns and protect them from increased water flows, to keep disturbances in natural vegetation and soil cover to a minimum, to prevent degradation of rivers and streams from sediment transport, to ensure that fugitive dust from development is minimal, and to ensure that erosion is minimal, and slopes are properly stabilized and revegetated. An Erosion Control and Sedimentation Plan and a Slope Stabilization and Revegetation Plan*

are required with Development Plan, Subdivision, Building Permit, Grading Permit and any activity that includes excavations in excess of 50 cubic yards.

Staff Comment: The applicant has provided a preliminary grading and drainage plan, which shows minimal slopes and use of a retaining wall to lower the grade of the pool site and maintain the access drive that curves around from the parking lot to the northern part of the building. Requirements for erosion and sediment control allow for a *site's original grade to be raised or lowered a maximum of six feet if retaining walls are used to reduce the steepness of man-made slopes, provided that the retaining walls comply with the requirements in Section*. Building permits are required for retaining walls over 4-ft and grading permits with a final Erosion and Sediment Control Plan are required for excavations or fills in excess of 50 cubic yards. At time of Building Permit or Grading Permit application, the applicant will be required to provide all requirements identified in Section 4.10.060.F. to the Building Official and Town Engineer for review and approval. The Town Engineer's preliminary comments on drainage for the site have been addressed by the applicant.

CHAPTER 4.11 – LANDSCAPING, SCREENING AND FENCING STANDARDS

Landscape Materials. *Low-water, drought-tolerant, adaptive plants shall be used for all new landscaping. It is strongly encouraged to use fire-wise plants wherever possible. Materials shall be suitable for the local climate. The Town recommends utilizing the low-water/drought-tolerant/fire-wise plant materials lists available through the CSU Extension Office. Applicants who propose to use plants materials that are not on a CSU list must provide information describing how the plant types proposed are low-water, drought-tolerant, and FireWise. Fruit bearing trees or shrubs shall be prohibited to limit conflict with wildlife unless a maintenance plan is included with the landscape plan.*

Staff Comment: The applicant has provided the required landscape plan per Code and staff has reviewed for both the requirements of the landscape plans as well as turf grass maximums and minimum plant specifications and has a few conditions of approval for landscaping. The landscape plan shows (3) Greenspire Littleleaf Linden trees at a 2" caliper size, applicant shall provide a minimum of a 3" caliper size in this tree species or a similar tree species, to be shown on building permit plans. If an alternate tree species is proposed, the tree species shall not consume more water than the Greenspire, which is a moderate water user. The sod proposed is Colorado Black Beauty Fescue, which is described as having low mowing requirements and is shade and drought tolerant. An irrigated native seed mix is also proposed for between the fenced "pool area" and the retaining wall.

None of the proposed landscaping occurs within the Right-of-Way. No native land is disturbed with this project. The parking lot is existing and not within the project scope.

Screening of any exterior mechanical equipment, pool equipment, other equipment, and new trash or loading areas shall be provided so that equipment and trash/loading areas cannot be viewed from a public street. Screening materials shall be constructed of durable materials suited to the Town's climate. Staff has not identified any unscreened equipment, trash, or loading areas at this time.

Maximum fence height in nonresidential districts is 8'. All fencing proposed around the pool is 6'. The Code does not regulate fencing materials within the PC1 zone district.

CHAPTER 4.12 – PARKING AND LOADING STANDARDS

Section 4.12.040 – Required Off-Street Vehicle Parking.

1. *When determination of the number of parking or loading spaces results in a requirement of a fractional space, the next highest whole number shall apply.*
2. *When there are multiple structures on a lot or multiple uses in a structure, parking shall be calculated separately for each different use area in a building or on a site, including all accessory uses.*

Use	Requirement	Parking Spaces Required	Parking Spaces Provided
Golf Course or Swimming Pool, outdoor	1 per 300 sf of occupied buildings	9,277/300=31	Upper lot: 32
Recreation Facility, indoors (<6,500 sf or >6,500 sf)	1 per 400 sf of building area	10,361/400=26	Lower lot: 39
Total		57	71

Staff Comment: The existing building facility is roughly 8,761 sf, with about 585 sf of the existing building classified as unoccupied (used for mechanical systems, pool equipment, chemicals, storage, etc.). The addition is roughly 1,700 sf, and about 499 sf of the addition will be unoccupied (used for pool equipment). The pool and ice rink facility currently provides 14 spaces above and beyond what is required by Code with the building expansion, without any reductions for bicycle parking (long-term or short-term) or for joint use of parking between the ice rink in the winter season and the pool in the summer season. The site exceeds the parking requirements for the existing and expanded facilities.

CHAPTER 4.13 – OUTDOOR LIGHTING

Table 4.13-1: Maximum Lighting Output Levels

Use Type	Fixture Output	Illumination at Property Line	Total Site Output
Residential, one and duplex dwellings	3,000 initial lumens	0.3 foot-candle	30,000 initial lumens per net acre
All other uses	10,000 initial lumens	0.3 foot-candle adjacent to residential use	70,000 initial lumens per net acre
		1.0 adjacent to all other uses	
		1.0 adjacent to public right-of-way	

Staff Comment: The application is in conformance with the maximum lighting output level standards for “all other uses”. The fixture specifications sheets show that proposed fixtures are full cutoff and light does not trespass beyond the property boundaries, as shown on the photometric plan (E003). The 20’ light poles proposed for fixture EP1 exceeds the nonresidential light pole height maximum of 12’ and will need to be reduced to comply with the Code. New parking lot lighting, illuminated signs and street lighting are not proposed in the scope of this application.

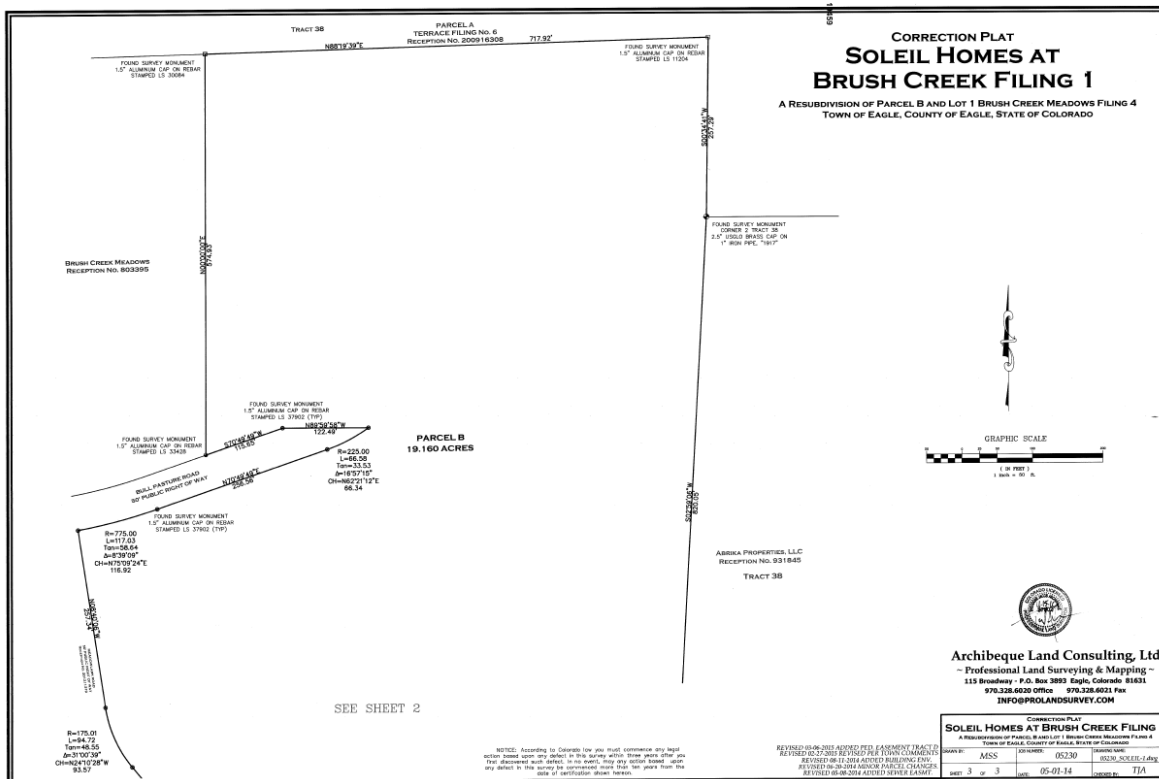
CHAPTER 4.14 – SUSTAINABILITY, RESILIENCE, AND HAZARDS

Sections 4.14.010 and 4.14.020 Natural Hazards and Environmentally Sensitive Lands and Flood Damage Prevention Regulations are not relevant to this application.

The geology of the site may or may not have led to the failure of the pool that is being replaced. Extensive research has been completed to evaluate the site to accommodate continued use of pool facilities. A building permit is required, and the engineering will be fully evaluated by the Building Official, the Town Engineer, and other relevant review agencies during the building permit application process.

CHAPTER 4.15 – SUBDIVISION DESIGN AND IMPROVEMENT STANDARDS

Staff Comment: The scope of this project does not necessitate a review of this chapter. The land has already been subdivided and platted. Staff has reviewed the Final Plat for conformance with this project and has not noted any nonconformance.



STANDARD #2: Previous Approvals

That the development plan is consistent with any previously approved and still valid land use approval, such as a plat or PUD.

Staff Comment: The development plan is consistent with the previously approved subdivision plat and with the zoning regulations in PC1. There is no PUD zoning applicable to this property.

STANDARD #3: Comprehensive Plan

That the development plan is consistent with the Comprehensive Plan and other adopted area or corridor plans.

Staff Comment: Review of the Comprehensive Plan and other relevant documents is more directed towards the use of the property rather than the expansion of buildings. The original project likely would have reviewed the application against the relevant plan documents in effect at that time. The building expansion and construction of the pool facilities is in compliance with all relevant plan documents, and no significant changes are occurring on the site in terms of amenities and services provided, which might generate additional review of plan goals and policies.

STAFF RECOMMENDATION

Staff recommends approval with conditions of the Eagle Pool Replacement Minor Development Plan, File #DR24-02, based on compliance with the Municipal Code, previous approvals, and the goals and policies of the 2021 Elevate Eagle Comprehensive Plan.

RECOMMENDED MOTION

I move to approve the Minor Development Permit for the Eagle Pool Replacement Project, File #DR24-02, with the following findings of fact:

FINDINGS OF FACT

That the application for DR24-02 meets the requirements of Title 4 of the Municipal Code and substantially supports the 2021 Elevate Eagle Comprehensive Plan.

IF APPROVED, THE P&Z AND COUNCIL MAY CONSIDER THE FOLLOWING SUGGESTED CONDITIONS OF APPROVAL:

1. A building permit will be required for the proposed expansion. All related building and site development standards shall be met prior to the issuance of said permit.
2. Erosion and Sedimentation Control Plan to be submitted and reviewed at time of Building Permit, Plan must be in conformance with Section 4.10.060. of the Land Use and Development Code.
3. Applicant shall provide a minimum of a 3" caliper size for the Greenspire Littleleaf Linden, or similar species, on the landscape plan at time of building permit application. If an alternate tree species is preferred, it shall not consume more water than is currently designated on the plans (moderate water usage).
4. Applicant to confirm that all proposed shrubs shall be a minimum size of 5 gallons, at time of building permit application.
5. Exterior light poles exceeding 12' will be replaced with poles that are below the 12' height limit.



TOWN OF EAGLE
COMMUNITY DEVELOPMENT
200 BROADWAY • PO BOX 609 • EAGLE, CO 81631
PHONE: 970-328-9655 • FAX: 970-328-9656
EMAIL: PLANNING@TOWNOFEAGLE.ORG
www.townofeagle.org

LAND USE & DEVELOPMENT APPLICATION

Pursuant to the Land Use & Development Code, Title 4

ZONING REVIEW	DEVELOPMENT REVIEW	SUBDIVISION REVIEW
☐ Special Use Permit	☒ Minor Development Permit	☐ Concept Plan
☐ Zoning Variance	☐ Major Development Permit	☐ Preliminary Plan
☐ Rezoning		☐ Final Plat
☐ Temporary Use Permit	PLANNED UNIT DEVELOPMENT (PUD) REVIEW	☐ Lot Line Adjustment
☐ Amendment to Zone District Regulations	☐ PUD Zoning Plan	☐ Condominium / Townhouse
☐ Encroachment Permit	☐ PUD Development Plan	☐ Minor Subdivision
☐ Wireless Communications Facility		

PROJECT NAME Eagle Pool and Rec Center Renovation

PRESENT ZONE DISTRICT PC1 **PROPOSED ZONE DISTRICT** n/a
(if applicable)

LOCATION

STREET ADDRESS 1700 Bull Pasture Rd.

PROPERTY DESCRIPTION

SUBDIVISION Soleil Homes at Brush Creek Filing 1, Parcel B **LOT(S)** _____ **BLOCK** _____
(attach legal description if not part of a subdivision)

DESCRIPTION OF APPLICATION/PURPOSE Minor Development Plan application to expand the Rec. Center
by roughly 1,600 sf and to demo and rebuild the pool area and surrounding landscaping.

APPLICANT NAME Town of Eagle / Mountain Recreation **PHONE** (970) 328-6354

ADDRESS 200 Broadway St. Eagle, CO 81631 **EMAIL** melissa.daruna@townofeagle.org

OWNER OF RECORD Town of Eagle **PHONE** (970) 328-6354

ADDRESS 200 Broadway St. Eagle, CO 81631 **EMAIL** melissa.daruna@townofeagle.org

REPRESENTATIVE* Ohlson Lavoie Corp., Robert McDonald **PHONE** (303) 294-9244

ADDRESS 2000 Lawrence St. Denver, CO 80205 **EMAIL** rmcdonald@olcdesigns.com

*A representative must submit an affidavit or power of attorney signed by the property owner of record authorizing the representation.

APPLICATION SUBMITTAL ITEMS:

The following submittal materials must be submitted in full before the application will be deemed complete (please check all items that are being submitted):

- ☐ Applicable fees and deposits.
- ☒ Project Narrative, describing the project, its compliance with any applicable review criteria, any impacts to the surrounding area, and any other relevant information.
- ☐ Surrounding and interested Property Ownership Report (see project specific checklist for more information).
- ☐ Proof of Ownership (ownership & encumbrance report) for subject property.
- ☒ Site Plan, drawn to scale and depicting the locations and boundaries of existing and proposed lots and structures.
- ☐ Project specific checklist.

FEES AND DEPOSITS:

See Eagle Municipal Code Section 4.03.080

1. Application fees shall be paid in full at the time of the filing of the application and unless paid, the application shall not be deemed complete. All fees are nonrefundable.
2. As described in Eagle Municipal Code § 4.03.080, third-party consultants may be necessary for the review and processing of applications. These costs ("pass-through costs") must be paid by the applicant. If pass-through costs are expected, the applicant must pay a deposit at the time the application is filed. If at any time the deposit does not fully cover the pass-through costs, the applicant must pay another subsequent deposit before the Town will continue processing the application.
3. The Town may withhold the recording of any Subdivision Final Plat or Development Plan or the signing of any Resolution or Ordinance until all pass-through fees are paid in full.
4. Within 30 days of approval or denial of an application, any remaining deposit shall be returned to the applicant. If an application is withdrawn, any remaining deposit shall be returned to the applicant within 60 days.

I have read the application form and certify that the information contained herein is correct and accurate to the best of my knowledge. I understand that it is my responsibility to provide the Town with accurate information related to this application. I UNDERSTAND THAT FILING AN APPLICATION IS NOT A GUARANTEE THAT THE APPLICATION WILL BE APPROVED.

Melissa Daruna
Signature

2/29/24
Date

FOR OFFICE USE ONLY

DATE RECEIVED _____ BY _____ FILE NUMBER _____
REVIEW FEE _____ DATE PAID _____ RECEIVED BY _____
DATE CERTIFIED COMPLETE _____ BY _____
P&Z HEARING DATE _____ DECISION _____
TC HEARING DATE _____ DECISION _____



March 22, 2024

Town of Eagle
200 Broadway
P.O. Box 609
Eagle, CO 81631

Re: Eagle Pool and Rec Center Renovation – Project Description

The Town of Eagle and Mountain Rec, along with the design team led by OLC Architects with assistance from Norris Design, are pleased to present the Eagle Pool and Recreation Center Renovation project. The project is located at the long-standing Mountain Recreation Eagle Pool & Ice Rink site in Eagle, CO, south of Hwy 6 and east of Brush Creek Blvd. The facility, which was built in partnership between the Town of Eagle and Mountain Rec, opened in 2003, and is now in need of repairs to ensure the future enjoyment of the facility.

Project Description

The Eagle Pool and Rec Center has been a well-loved community staple since 2003. In the spring of 2022, shortly after opening for the season, the pool faced unusual water leakage; upon the finding from a study by WJE, it was found that it was in the best interest of the public to close the pool until repairs could be made. Since the closure, Mountain Rec and the Town of Eagle have been working together to address necessary renovations that will improve the quality and longevity of the facility. The facility services as a community gathering place that supports the health and wellness of residents and visitors alike.

After extensive public outreach, which included two in-person outreach events and an online survey, the development team proposes a comprehensive design that meets the wants of the community and the needs of the facility itself. The renovated pool area will include a six-lane lap pool, a leisure pool, dueling slides, additional shade structures, and additional seating areas.

The building itself will be expanded by approximately 1700 SF to accommodate new changing facilities, restrooms, and improved circulation. All building expansions will be in compliance with 2021 International Building Code standards. The fire suppression system will be extended into the building expansion and the whole building will remain fully sprinklered.

Funding will dictate future phases, and depending on the availability of funding, there is the potential to complete this project in one phase. The fully funded phase includes the building expansion, a leisure pool, a six-lane lap pool, hardscape areas surrounding the pools and revised fencing for the area, along with adjacent landscape improvements. Future phases dependent on funding include shade structures, pool play elements, and a water slide.

Existing Conditions Not in Scope

The surrounding existing park features including the tennis courts, bike park, and parking area will remain as is and are not included in the renovation scope of work with this project. In



examining the existing conditions of the project, the development team, with help from Town staff, looked at the existing parking area and determined that the existing Code requires 63 parking spaces when 71 spaces are present. The Code requirement is without a deduction for bicycle parking or previously approved joint use of parking between the Ice Rink and the Pool. Exact calculations for determining parking are found below:

- Outdoor swimming pool: 1 per 300 SF of occupied buildings (separate storage sheds or structures not included)
- Rec facility, indoors: 1 per 400 SF of building area
- Recreation services: 1 per 400 SF of building area
- Bicycle parking: Spaces for 2% max daily expected attendance (short term), Min 2 + 1 per 10 employees (long term)
- (Existing building + additional building sf in renovation = new building sf total)
 $8843.8 + 1770 = 10613.8$ sf
 - $10613.8 / 400 = 26.5345$ spots
 - $10613.8 / 300 = 35.3793$ spots

In Support of Elevate Eagle Vision

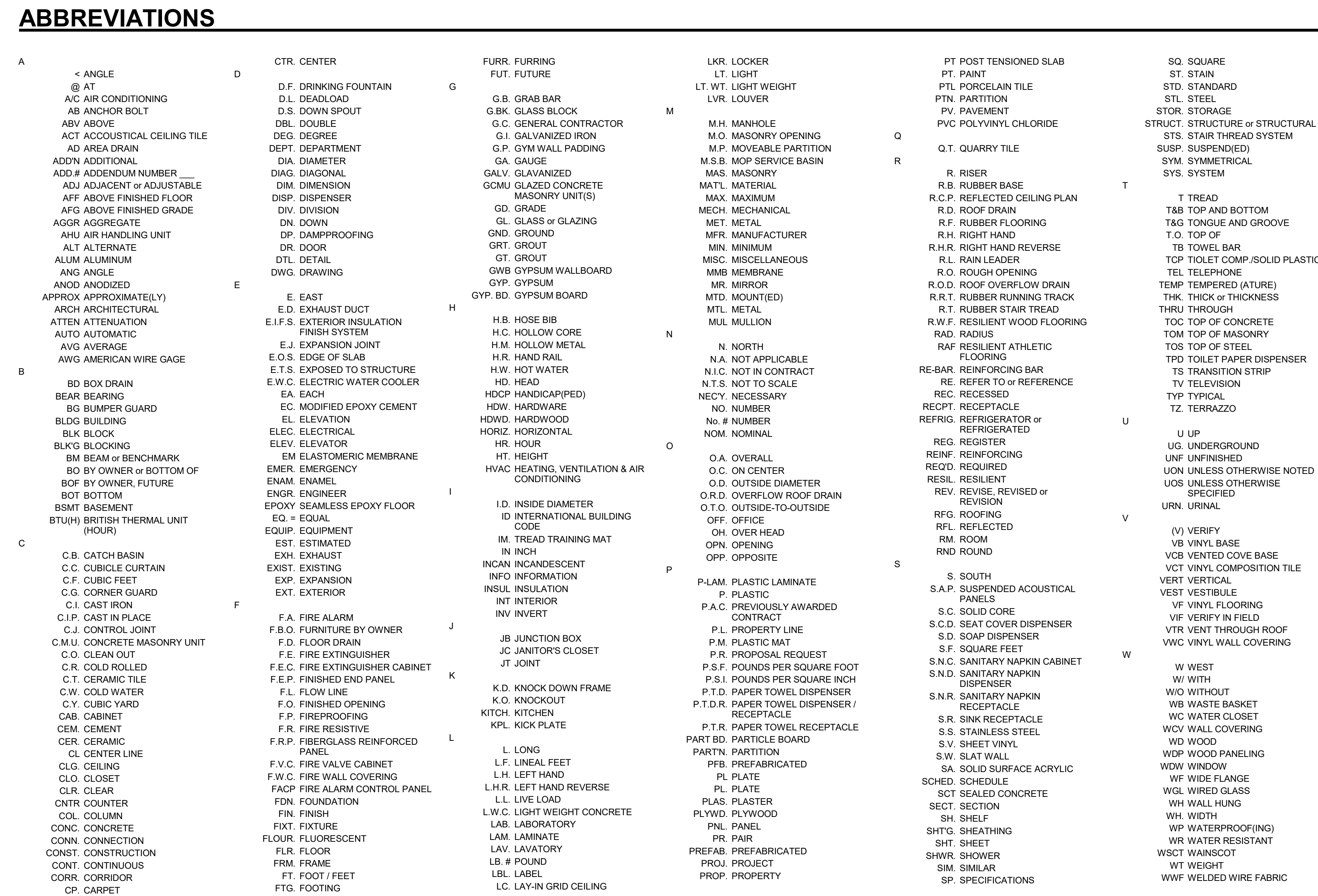
The project is in compliance with the Elevate Eagle Comprehensive Plan by:

1. Maintaining and improving the appearance of Eagle by establishing and reinforcing the Town's identity and sense of place. The Eagle Pool and Recreation Center has been a central gathering place, not only for Eagle residents, but for residents in surrounding communities, such as Gypsum, Eagle, Edwards, Eagle County, and the surrounding areas. The Eagle Pool and Ice Rink provides outdoor recreation swimming and year round recreation amenities and after school programming that support the community. By renovating the Pool and Rec Center, we can ensure that future residents can enjoy this wonderful amenity.
2. Promote the Town's unique activities. In addition to other popular outdoor activities (fishing, mountain biking, camping, etc.), the Eagle Pool and Rec Center draws both local residents and residents of neighboring communities. Renovating the Pool and Rec Center will help accommodate this growth and promote the Town's unique activities.
3. Provide equitable and sustainable public services and infrastructure. By renovating the Pool and Rec Center, the project aims to maintain public services and infrastructure per community expectations and Town standards.

Additionally, the project is in compliance with subarea plans in the Town.

The team appreciates your consideration of this project and would be happy to answer any questions you may have.

Issue Date: 01/22/2024
Issued For: DESIGN DEVELOPMENT



SHEET #	SHEET NAME
A-001	COVER SHEET
A-002	CODE STUDY
A-101	FIRST FLOOR PLAN
A-102	FIRST FLOOR CEILING PLAN
A-103	ROOF PLAN
A-200	EXTERIOR ELEVATIONS
A-201	INTERIOR ELEVATIONS
A-300	BUILDING SECTIONS
A-301	WALL SECTIONS
A-400	ENLARGED WET AREA
A-700	FIRST FLOOR FINISH PLAN
C-001	EXISTING CONDITIONS & DEMO-REMOVALS PLAN
C-101	EXIST. PLAN

ARCHITECT	LANDSCAPE ARCHITECT
OLC (Ohlson Lavioie Corporation) 2000 Lawrence Street Denver, Colorado 80205 303.294.9244 www.olcdesigns.com	Norris Design 409 East Main Street, Suite 207 Frisco, Colorado 80443 970.368.7068 www.norris-design.com
Contact: Robert McDonald, CEO rmcdonald@olcdesigns.com	Contact: Megan Testin, Principal metstin@norris-design.com

Councilman Hunsaker
12265 West Bayaud Avenue, Suite 110
Lakewood, CO 80228
303.384.9500
www.councilmanhunsaker.com
Contact: Cole Henry, PE
cohenry@chh2o.com

Wiss, Janney, Elstner Associates, Inc.
3609 S. Wadsworth, Suite 400
Lakewood, CO 80235
303.914.4300
Contact: Frank Harrison, P.E.
fharrison@wje.com

SGM, Inc.
118 W Sixth St, Suite 200
Glenwood Springs, CO 81601
970.384.9035
www.sgm-inc.com
Contact: Rick Barth, PE
rickb@sgm-inc.com

Norris Design
409 East Main Street, Suite 207
Frisco, Colorado 80443
970.368.7068
www.norris-design.com
Contact: Megan Testin, Principal
mtestin@norris-design.com

SGM, Inc.
118 W Sixth St, Suite 200
Glenwood Springs, CO 81601
970.384.9035
www.sgm-inc.com
Contact: John Partch, PE
Johnp@sgm-inc.com

The Ballard Group, Inc.
2525 South Wadsworth Blvd, Suite 200
Lakewood, CO 80227
303.988.4514
www.TheBallardGroup.com
Contact: Peter Failla, PE HVAC
pfailla@theballardgroup.com
Tim Harris, PE Plumbing
THarris@theballardgroup.com

Innovative Electrical Systems, Inc.
8093 West Iliff Lane
Lakewood, CO 80227
303.807.7181
www.iesystems-inc.com
Contact: Kevin Yingling, PE
kly@iesystems-inc.com

**2000 LAWRENCE STREET
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: 1 1/2" = 1'-0"

ISSUE DATE: 01/22/2024

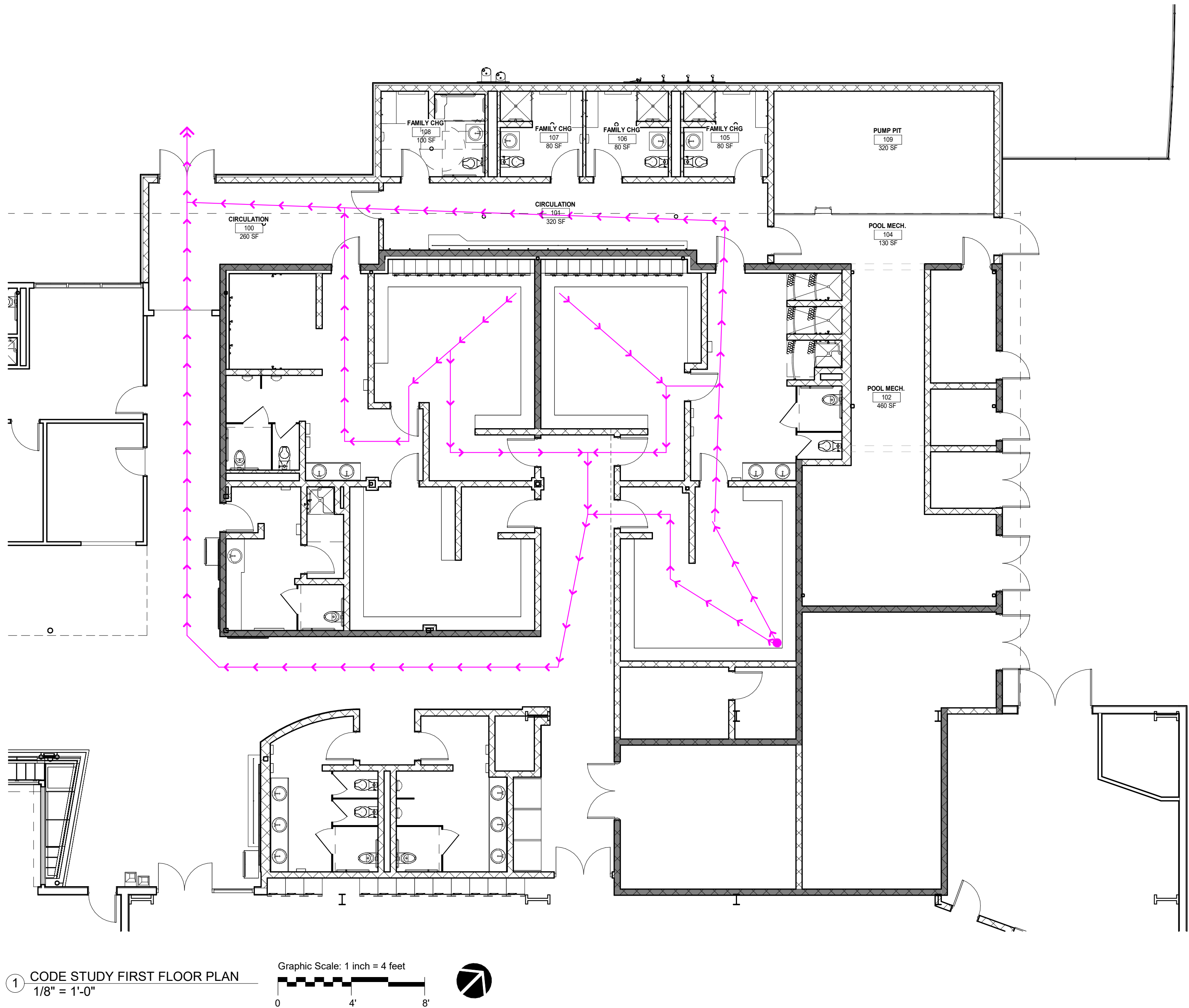
DRAWN BY: **OLCE**REV'D BY: **RMc**

PROJECT #: 23079

TITLE: COVER SHEET

SHEET #:

A-001



S.F. BREAKDOWN
EAGLE POOL REPLACEMENT

	Qty.	Size	Subtotal	Subtotal	Total	Comments
I. PUBLIC AMENITIES						
A. Admin. / Management Staff						
1 New Staff Area	1	-	-	-	-	
II. LOCKER FACILITIES						
a. Family / Universal Changing						
1 Changing Area	1	660	660	660	660	
III. AQUATIC FACILITIES						
A. Lap / Competition Pool						
1 (6) x 7' Lanes x 25 yds.	1	3,425	3,425	3,425	3,425	
B. Leisure Pool						
1 Zero-depth entry + current channel	1	4,512	4,512	4,512	4,512	
C. Waterslides						
1 20' H. Waterslide Platform + 2 flumes	0	1,247	-	-	-	
D. Pool Deck						
1 Pool Deck	1	6,000	6,000	6,000	6,000	
V. SUPPORT FACILITIES						
A. Pool Support						
1 Lifeguards / First-Aid	0	230	-	-	910	
2 Multi-Purpose / Party Room	0	300	-	-		
2 Concessions	0	200	-	-		
3 Pump Pit	1	320	320			
4 Pool Mechanical Room	1	130	130			
5 Pool Mechanical Room	1	460	460			
NET S.F. OF FLOOR AREA						
15,507						
GROSS S.F. FACTOR						
184%						
GROSS SITE / FLOOR AREA						
28,493						
44,000						

Plumbing Fixture Calculation:

Use: Assembly, pools for outdoor activities

	W/C's or Urinals			Lav's		DF's
	M	F		M	F	
Total Occupant Load	75	40		200	150	1000
M & F Occ's:	4	8		3	4	
Total Fixtures Required:	12			7		2
Total Fixtures Provided	11	11		14	14	4

2021 ICC Codes

Occupancy Type	SF/Occ	Occ Load
Business	150	-
Locker rooms	50	14
Swimming Pools	50	69
Swimming Pools	50	91
Pool Deck	15	400
Business Areas	150	-
Business Areas	150	-
Business Areas	150	-
Accessory storage, mech, etc	300	2
Accessory storage, mech, etc	300	1
Accessory storage, mech, etc	300	2
Total Occupant Load		579

BUILDING CODE SUMMARY

PROJECT INFORMATION		PROJECT NAME: EAGLE POOL REPLACEMENT		
		PROJECT TYPE:: RENOVATION BUILDING ADDRESS : TOWN OF EAGLE, COLORADO		
APPLICABLE MUNICIPAL...				
		2021 INTERNATIONAL BUILDING CODE/EXISTING BUILDING CODE 2021 INTERNATIONAL ENERGY CONSERVATION CODE 2020 NATIONAL ELECTRICAL CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL SWIMMING POOL AND SPA CODE 2017 ANSI 117.1 ACCESSIBILITY CODE		
2021 IBCB COMPLIANCE PATHWAY:		301.3.1 ALTERATIONS AND ADDITIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTERS 5 OF THIS CODE 501.2 A FIRE SPRINKLER SYSTEM IN COMPLIANCE WITH 903.3.1.1 IS EXISTING AND SHALL BE EXTENDED INT... 502.1 ADDITIONS SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE 503.1 ALTERATIONS SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS COMPLYING WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE THAN THE EXISTING BUILDING OR STRUCTUR...		
CH	IBC CHAPTER AND SECTION	F	SUB-TITLE	CURRENT DESIGN
1 SCOPE & ADMINISTRATION				
DEFERRED SUBMITTALS 107.3.4.1				
FIRE SPRINKLER SYSTEMS				
3 USE & OCCUPANCY:				
OCCUPANCY DESIGNATION & 302 USE GROUP				
GROUP A-4, INDOOR SKATING RINKS				
GROUP A-4 ASSEMBLY (303.5 INDOOR SKATING RINKS)				
4 SPECIAL USE & OCCUPANCY:				
CHAPTER NOT APPLICABLE				
5 GENERAL BUILDING HEIGHTS & AREAS:				
ALLOWABLE HEIGHT 504.3, TABLE				
ALLOWED (SPRINKLERED): 55' ACTUAL: 24'-6"				
ALLOWABLE STORIES 504.4, TABLE				
ALLOWED (SPRINKLERED): 2 ACTUAL: 1				
ALLOWABLE AREA 506.2, DETERMINATION				
ALLOWABLE AREA A1 = 38,000 SF				
SINGLE OCCUPANCY / 1-STORY				
UNLIMITED AREA BUILDINGS 507				
THE AREA OF THIS BUILDING SHALL NOT BE LIMITED BASED ON COMPLIANCE WITH THIS SECTION				
507.4				
THE AREA OF A GROUP A-4 BUILDING NOT MORE THAN ONE STORY ABOVE THE GRADE PLANE OF TYPE II-B CONSTRUCTION SHALL NOT BE LIMITED BY ADJOINING PUBLIC WAYS OR YARDS NOT LESS THAN 60 FT.				
MIXED-USE OCCUPANCY 507.4.1 & 508 INCIDENTAL USE 509.1, 509.2				
THIS IS A SINGLE OCCUPANCY FACILITY NOT APPLICABLE INCIDENTAL USES SHALL NOT BE INDIVIDUALLY CLASSIFIED, AND SHALL BE INCLUDED IN THE...				
6 TYPES OF CONSTRUCTION:				
FIRE RESISTANCE RATING 601, TABLE				
CONSTRUCTION TYPE II-B STRUCTURAL FRAME 0 HOUR BEARING WALLS—EXTERIOR 0 HOUR BEARING WALLS—INTERIOR 0 HOUR NON-BEARING WALLS—EXTERIOR SEE TABLE 602 NON-BEARING WALLS—INTERIOR 0 HOUR FLOOR CONSTRUCTION 0 HOUR ROOF CONSTRUCTION 0 HOUR				
FIRE SEPARATION DISTANCE 602, TABLE				
X 5'-X<30' BASED ON § 601 AND § 302 2 HOUR, 8" CMU PROVIDED W/ PROTECTED OPENINGS				
7 FIRE PROTECTION				
MINIMUM DISTANCE OF PROJECTION 705.2 MAXIMUM AREA OF EXTERIOR... 705.8				
5 OR GREATER: 40' 705.8-1, EX. 1.1: NO LIMIT FACING THE STREET				
8 INTERIOR FINISHES				
INTERIOR WALL AND FINISH 803.13 FIRE-RATING				
BASED ON § 601 AND § 302 AND FULLY-SPRINKLERED EXIT STAIRS/RAMPS/PASSAGEWAYS: B CORRIDORS AND ENCLOSURES: B ROOMS AND ENCLOSED SPACES: C				
9 FIRE PROTECTION SYSTEM:				
AUTOMATIC SPRINKLER SYSTEMS 903.2.1.3 906.3(1) PORTABLE FIRE EXTINGUISHERS (FE) FOR CLASS A FIRE HAZARDS				
GROUP A-4 FULLY-SPRINKLERED HAZARD OCCUPANCY: LIGHT (LOW) MINIMUM RATED FE: 2-A MAXIMUM AREA: 3,000 SF MAXIMUM FLOOR AREA / FE: 11,250 SF MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75'				
10 MEANS OF EGRESS:				
MEANS OF EGRESS WIDTH 1005.1				
STAIRS: 0.20' (BUT 34" MIN) OTHER: 0.15' (BUT 44" MIN, 36" MIN IF <50 OCC)				
SPACES WITH ONE EXIT 1006.2.1				
TOTAL OCCUPANCY: 411 EXITS REQUIRED: 2 EXITS PROVIDED: 2				
MINIMUM NUMBER OF EXITS PER STORY 1006.3.2				
HARDWARE 1008.1.9.3 ACCESSIBLE MEANS OF EGRESS 1009				
PANIC HARDWARE IN PATH OF EGRESS: PROVIDED @ EXITS ONE ACCESSIBLE MEANS OF EGRESS REQUIRED MAXIMUM: ONE PROVIDED FOR A-3 OCC, MAX DIST: 75' FOR A-3 OCC, OVER 30 OCC LOAD: 250' NOT APPLICABLE NO CORRIDORS				
COMMON TRAVEL 1017.2 EXIT ACCESS TRAVEL 1020.1 DISTANCE				
CORRIDOR FIRE-RESISTANCE... 1020.4				
20'				
11 ACCESSIBILITY				
ACCESSIBLE ROUTE 1104				
AT LEAST ONE ACCESSIBLE ROUTE: SINGLE STORY, ONE ROUTE PROVIDED FROM ACCESSIBLE PARKING & LOADING SPACES				



2000 LAWRENCE STREET
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: 1/8" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: OLC

REV'D BY: RM

PROJECT #: 23079

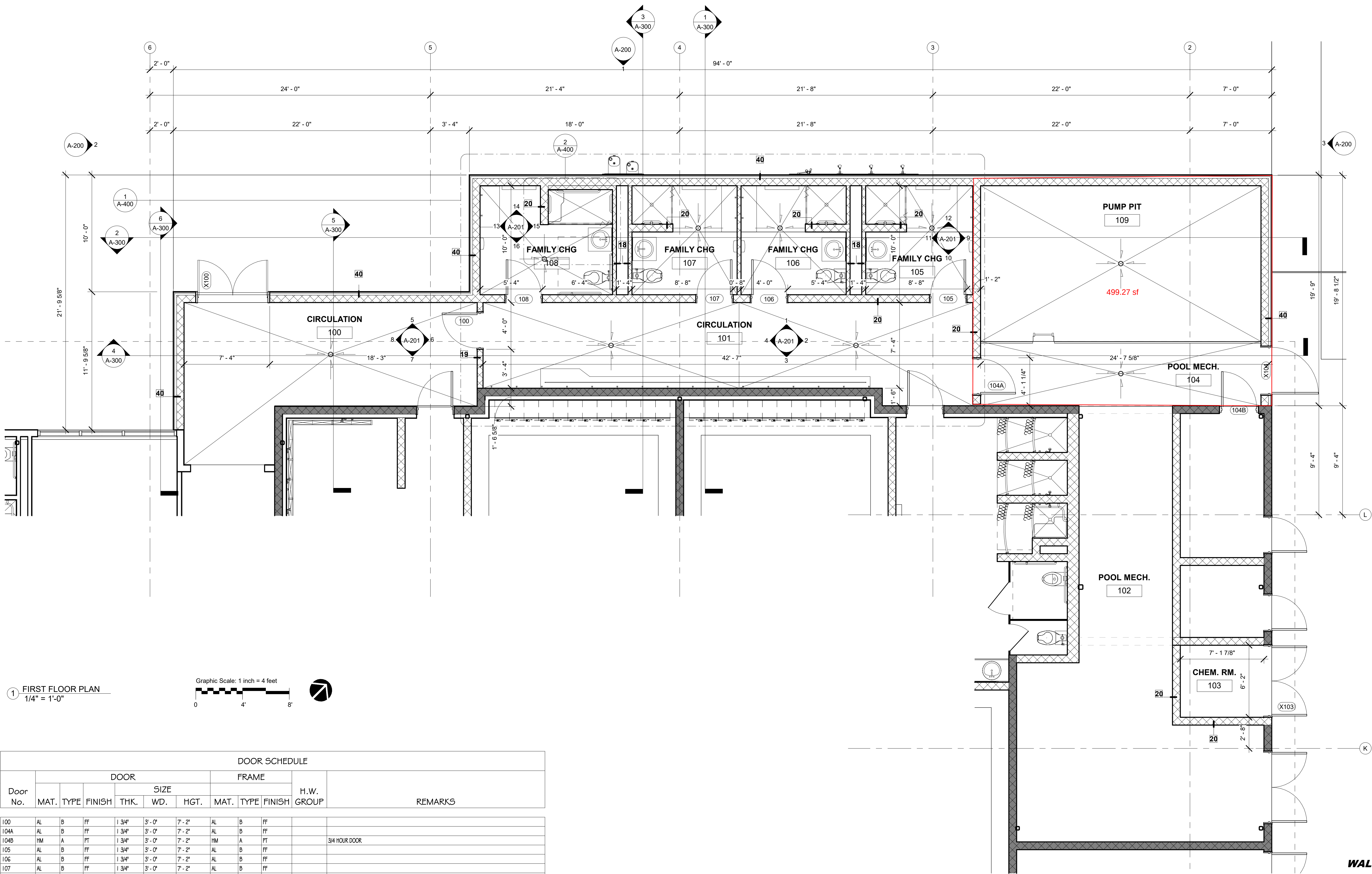
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SHEET #:

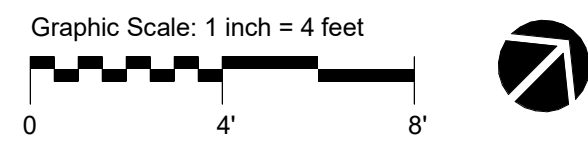
A-002

Mountain Recreation Eagle Pool

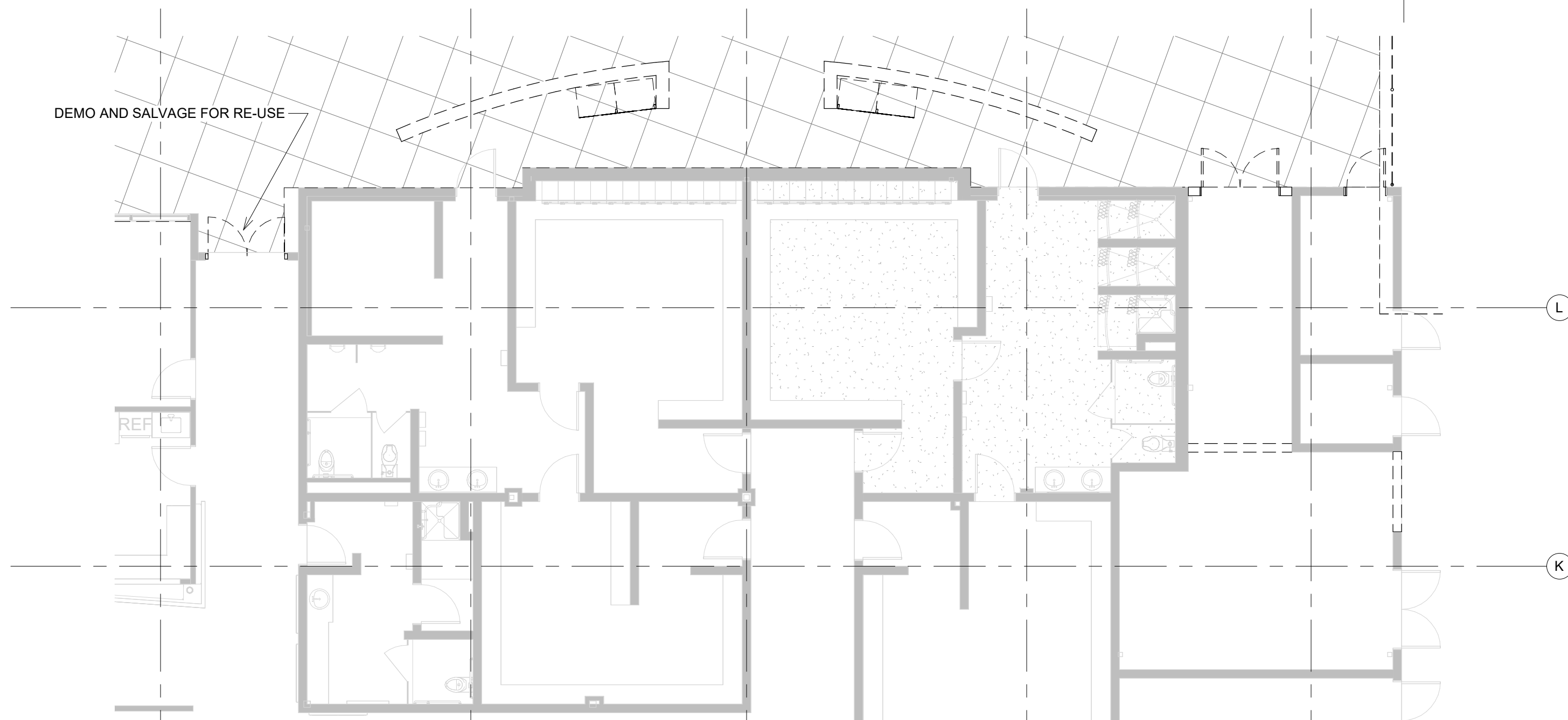
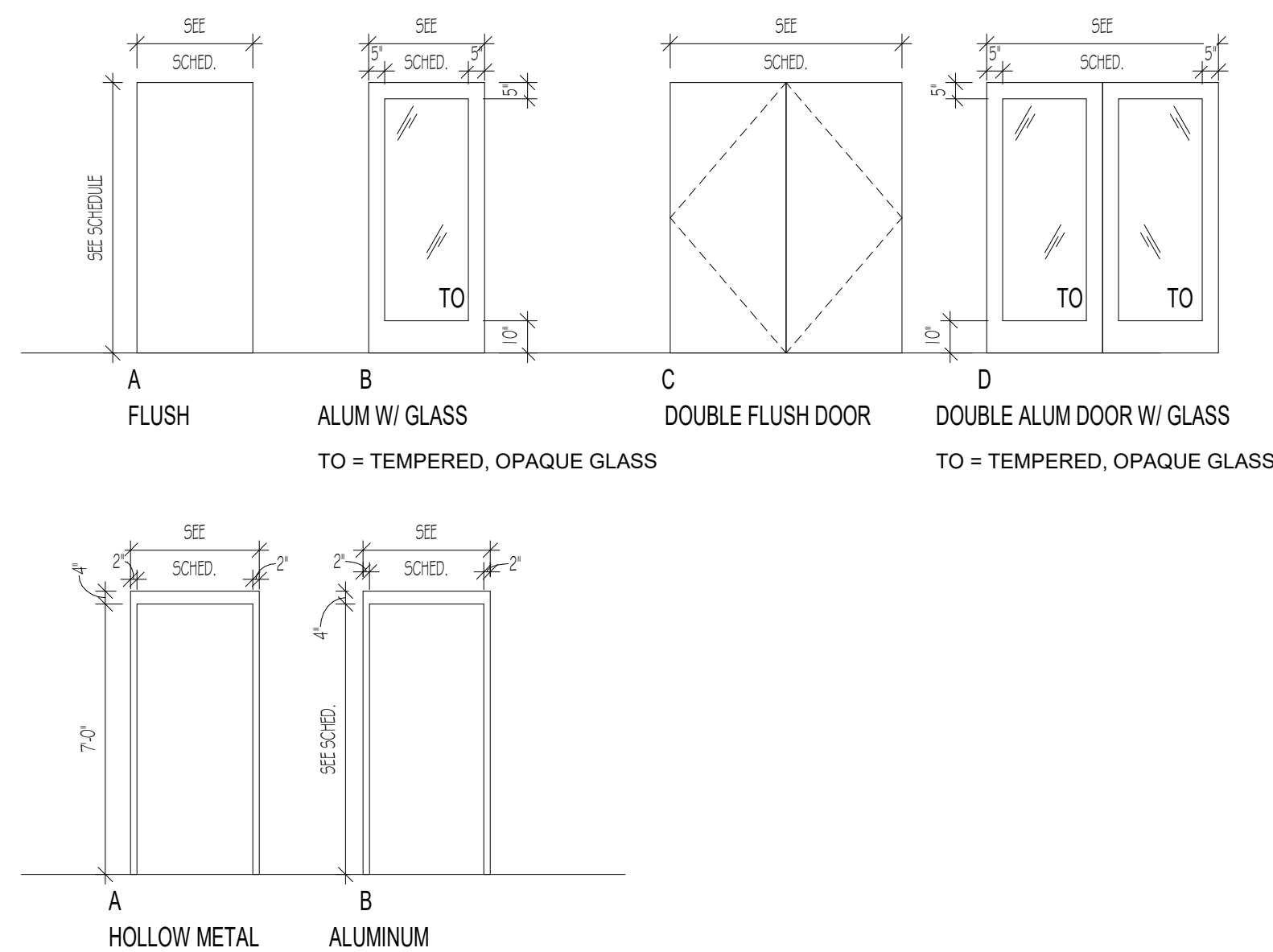
1700 Bull Pasture Rd, Eagle, CO 81631



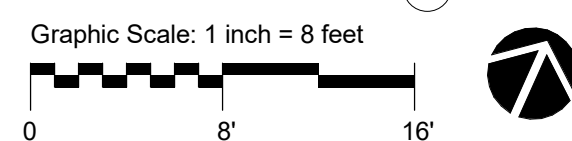
1 FIRST FLOOR PLAN
1/4" = 1'-0"



DOOR SCHEDULE											
Door No.	DOOR						FRAME			H.W. GROUP	REMARKS
	MAT.	TYPE	FINISH	THK.	WD.	HGT.	MAT.	TYPE	FINISH		
100	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
104A	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
104B	HM	A	FF	1 3/4"	3'-0"	7'-2"	HM	A	FF		3/4 HOUR DOOR
105	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
106	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
107	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
108	AL	B	FF	1 3/4"	3'-0"	7'-2"	AL	B	FF		
X100	AL	D	FF	1 1/2"	6'-4"	7'-2"	AL	B	FF		EXISTING RELOCATED DOOR
X103	HM	C	FF	1 3/4"	6'-0"	7'-2"	HM	A	FF		
X104	HM	A	FF	1 3/4"	4'-0"	7'-2"	HM	A	FF		



2 DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"



WALL SCHEDULE

	WALL TYPE 18: 4" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 19: 6" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 20: 8" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 40: EXTERIOR FIBER CEMENT SIDING 1/2" FIBER CEMENT SIDING 1/2" AIR SPACE 2" CONT. ROCK WOOL INSUL W/ CLIP AND RAIL WEATHER BARRIER 7 5/8" LOAD BEARING CMU INSULATED CAVITIES

WALL TYPES GENERAL NOTES

- PROVIDE FLUSH STRUCK JOINTS AT ALL EXPOSED PAINTED CMU.
- FILL ALL UNGROUTED CELLS WITH FOAM INSULATION IN ALL EXTERIOR WALLS

WALL TYPES SUFFIXES

- PROVIDE GYPSUM BOARD FULL HEIGHT TO STRUCTURAL DECK ABOVE.
- CMU UP TO STRUCTURAL DECK ABOVE.
- A SINGLE COURSE OF CONCRETE BLOCK OR 8" CONCRETE CURB UNDER THE STUD PARTITION.
- WALL UP TO 7'-4" A.F.F.
- ALL UNGROUTED CELLS TO BE FILLED WITH EXPANDABLE FOAM INSULATION.
- RE STRUCTURE PLANS AND WALL SECTIONS FOR POOL PIT WALL CONFIGURATION.
- ONE HOUR RATED WALL, ALL PENETRATIONS TO BE CLUCKED WITH FIRE RATED CLUCKING.
- FIBER REINFORCED PLASTIC (FRP).

NO. DATE: TITLE/PURPOSE:

SCALE: As indicated

ISSUE DATE: 01/22/2024

DRAWN BY: OLCE

REV'D BY: RMc

PROJECT #: 23079

TITLE: FIRST FLOOR PLAN

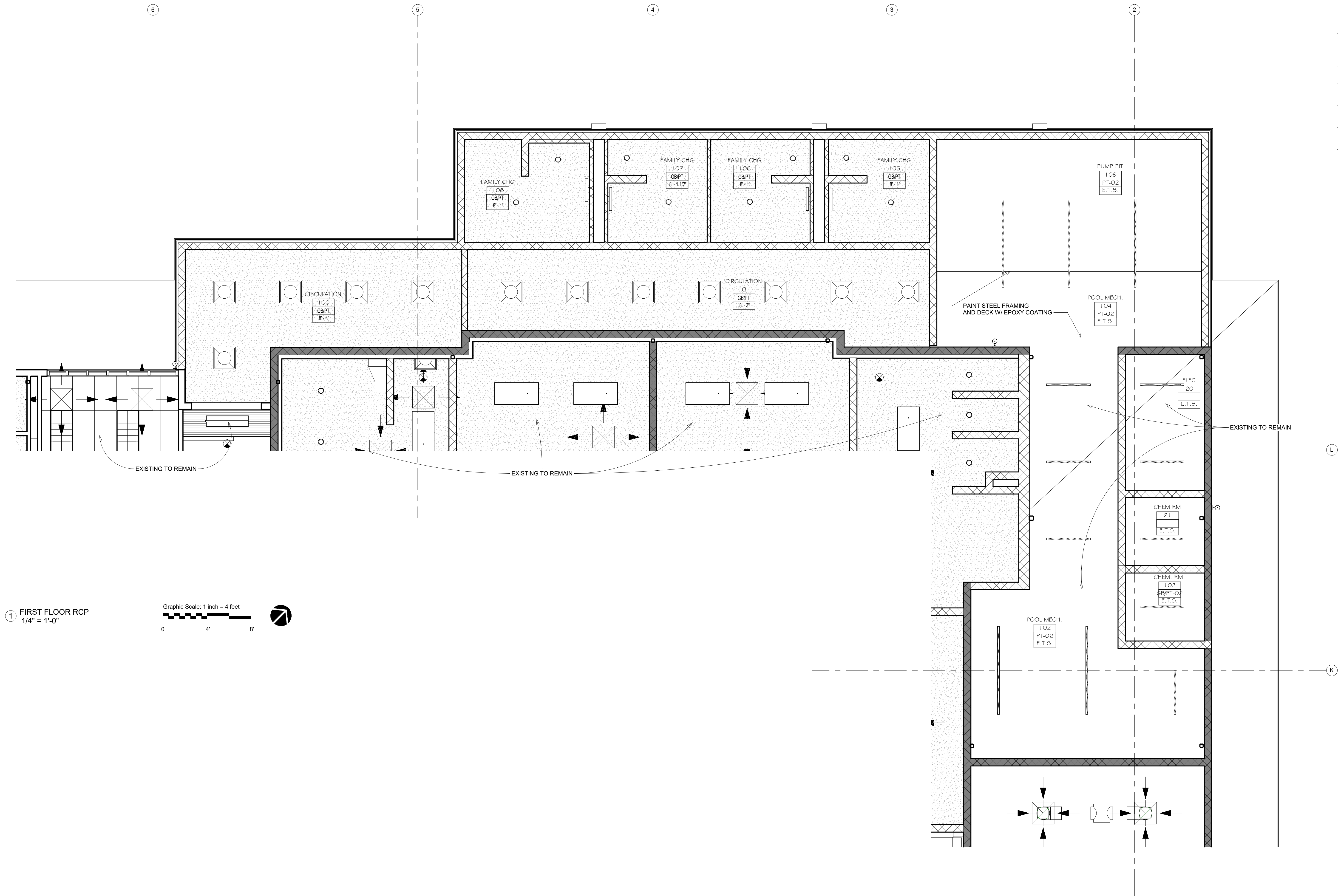
SHEET #:

A-101

LIGHTING FIXTURES LEGEND

	2x2 SURFACE MOUNTED LIGHT
	6" SURFACE MOUNTED DOWNLIGHT
	WALL SCONCE (ABOVE MIRRORS)
	WALL SCONCE
	PENDANT LINEAR LIGHT

REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN



1 FIRST FLOOR RCP
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: 1/4" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: OLCE

REV'D BY: RMc

PROJECT #: 23079

TITLE: FIRST FLOOR CEILING PLAN

SHEET #:

A-102

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: **As indicated**

ISSUE DATE: 01/22/2024

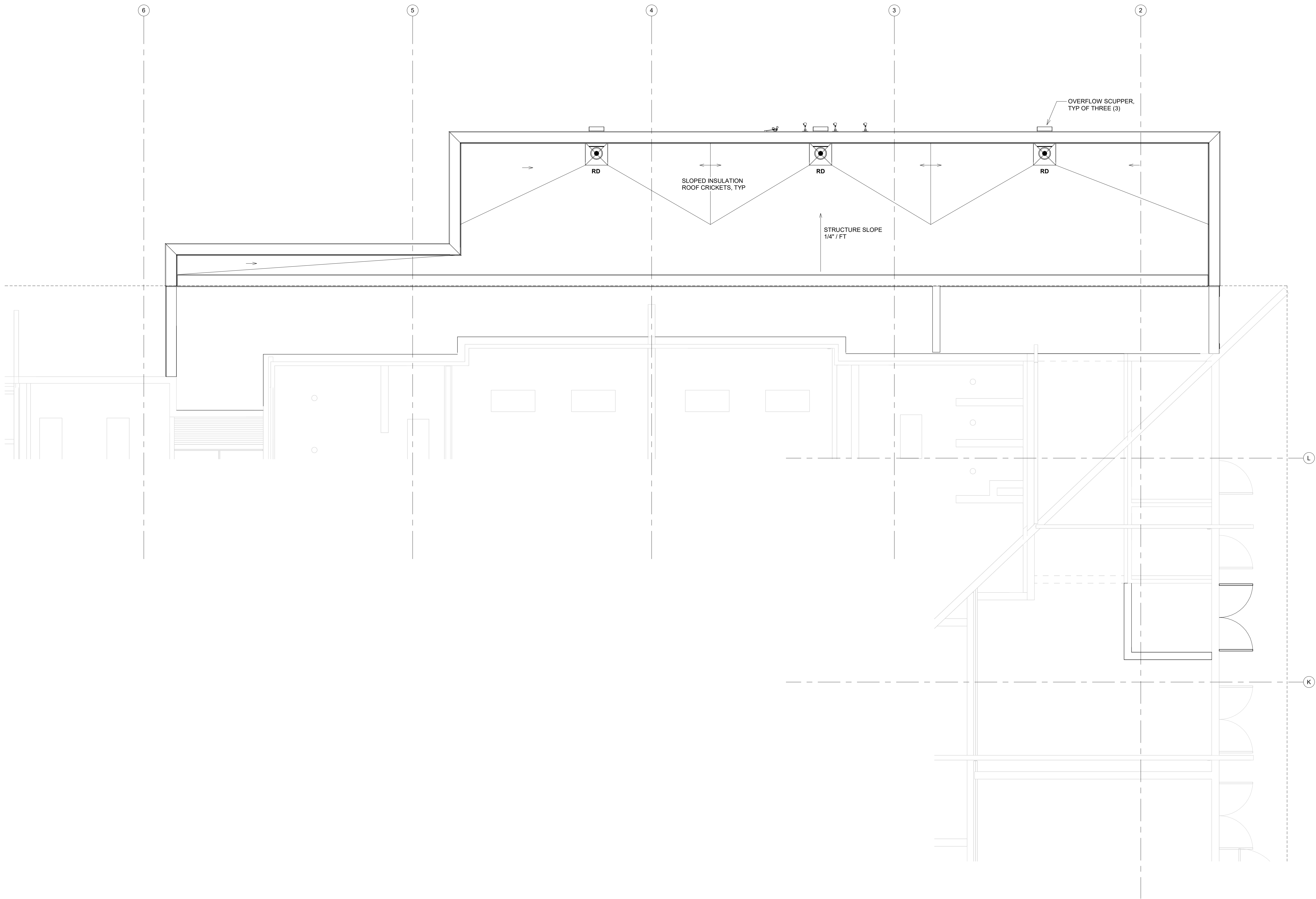
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PROJECT #: 23079

TITLE: **ROOF PLAN**

SHEET #:

A-103



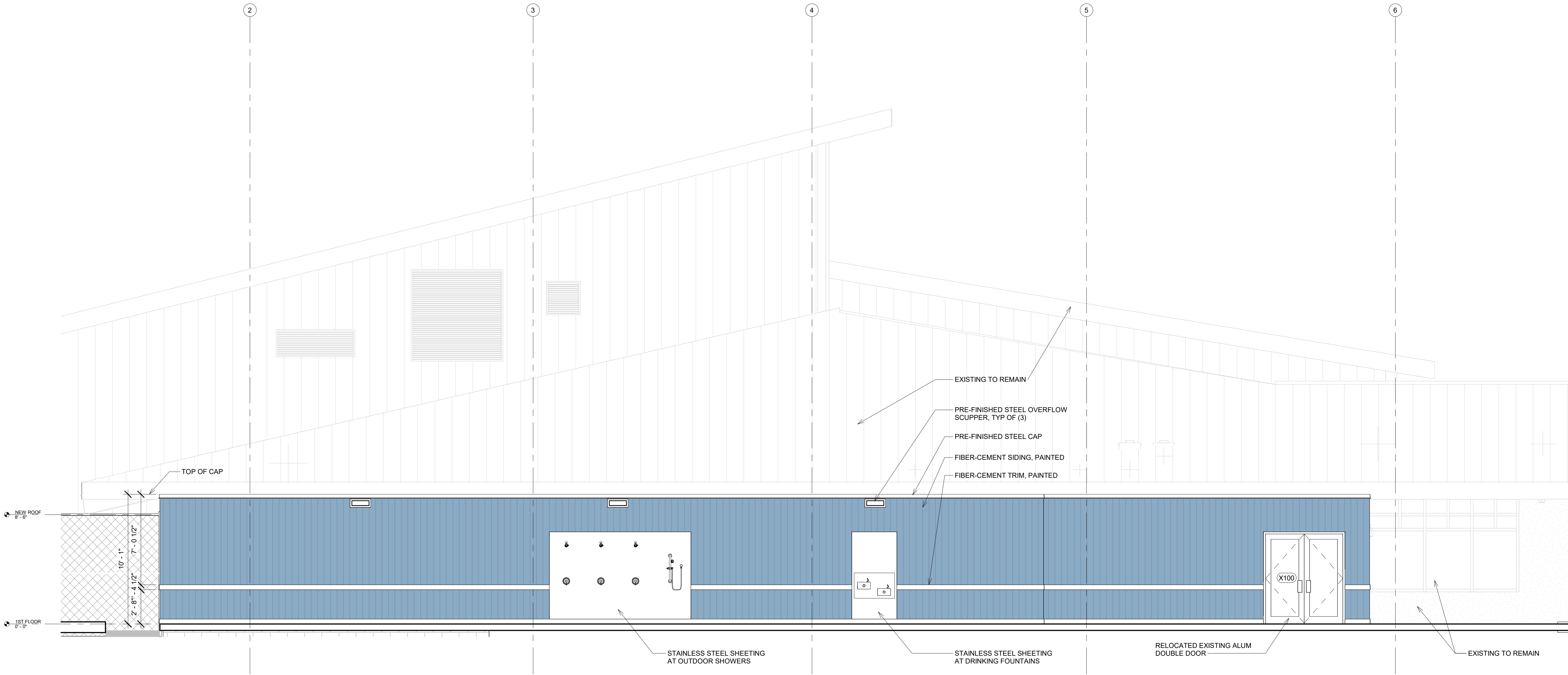
1 ROOF PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet

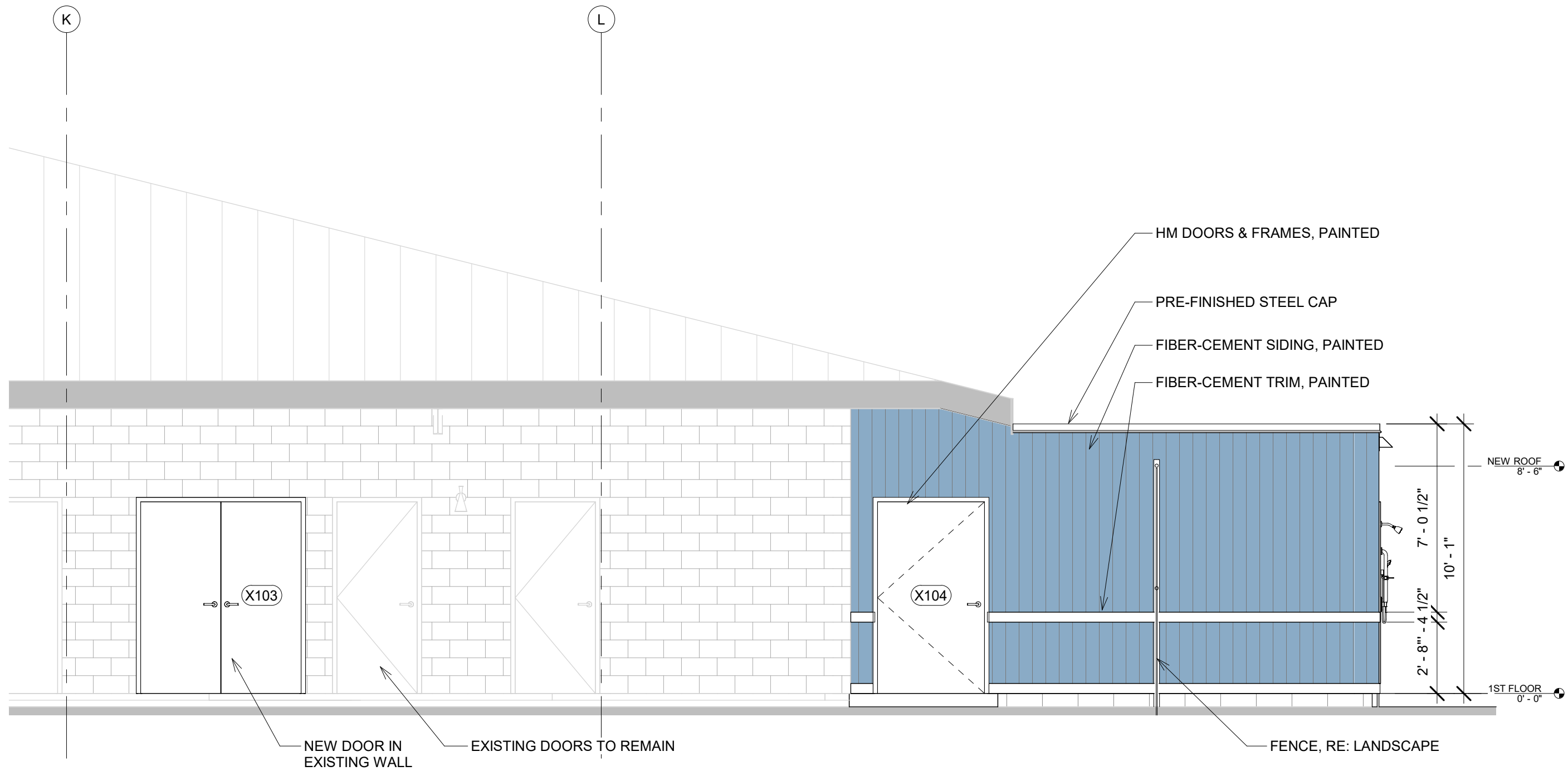


ROOF TYPES LEGEND			
RF-1			90 MIL REINFORCED PVC ROOF MEMBRANE 1/2" ROOF PROTECTION BOARD 6" RIGID INSUL (STAGGER SEAMS) 10 MIL VAPOR BARRIER 1/2" ROOF UNDERLAYMENT

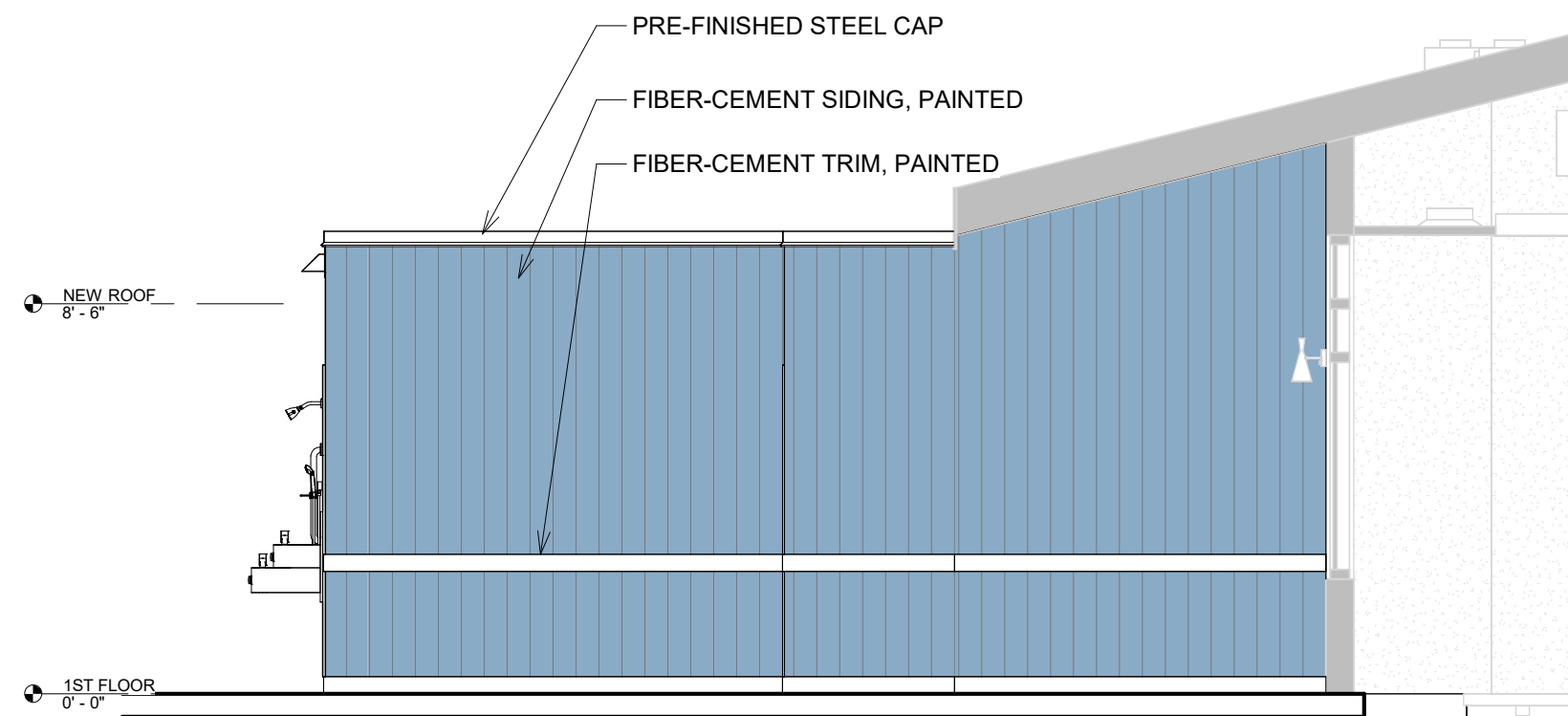
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631



① NEW CONSTRUCTION WEST ELEVATION
1/4" = 1'-0"



③ NEW CONSTRUCTION NORTH ELEVATION
1/4" = 1'-0"



② NEW CONSTRUCTION SOUTH ELEVATION
1/4" = 1'-0"

NO. DATE: TITLE/PURPOSE:

SCALE: 1/4" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: OLC

REV'D BY: RMc

PROJECT #: 23079

TITLE: EXTERIOR ELEVATIONS

SHEET #:

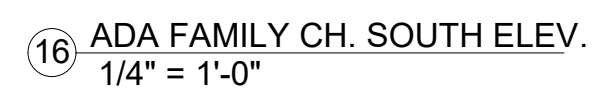
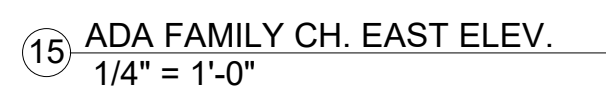
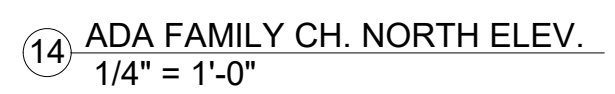
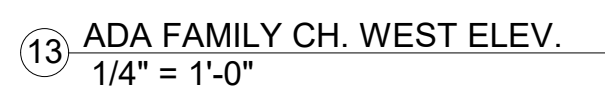
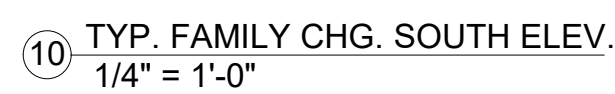
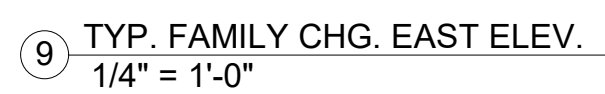
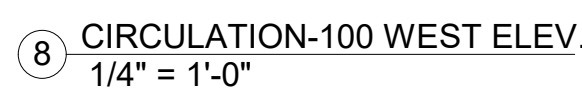
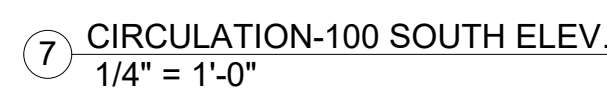
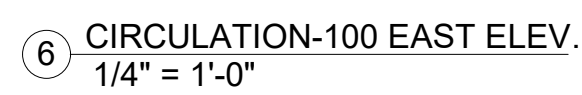
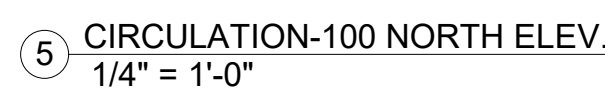
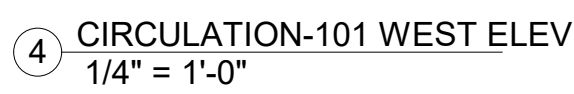
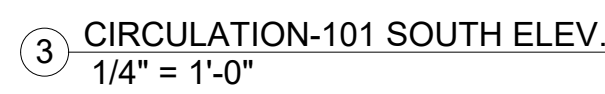
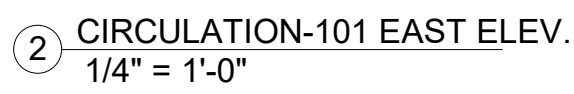
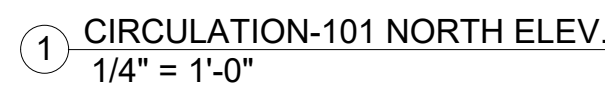
A-200

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

HEET #:

A-201

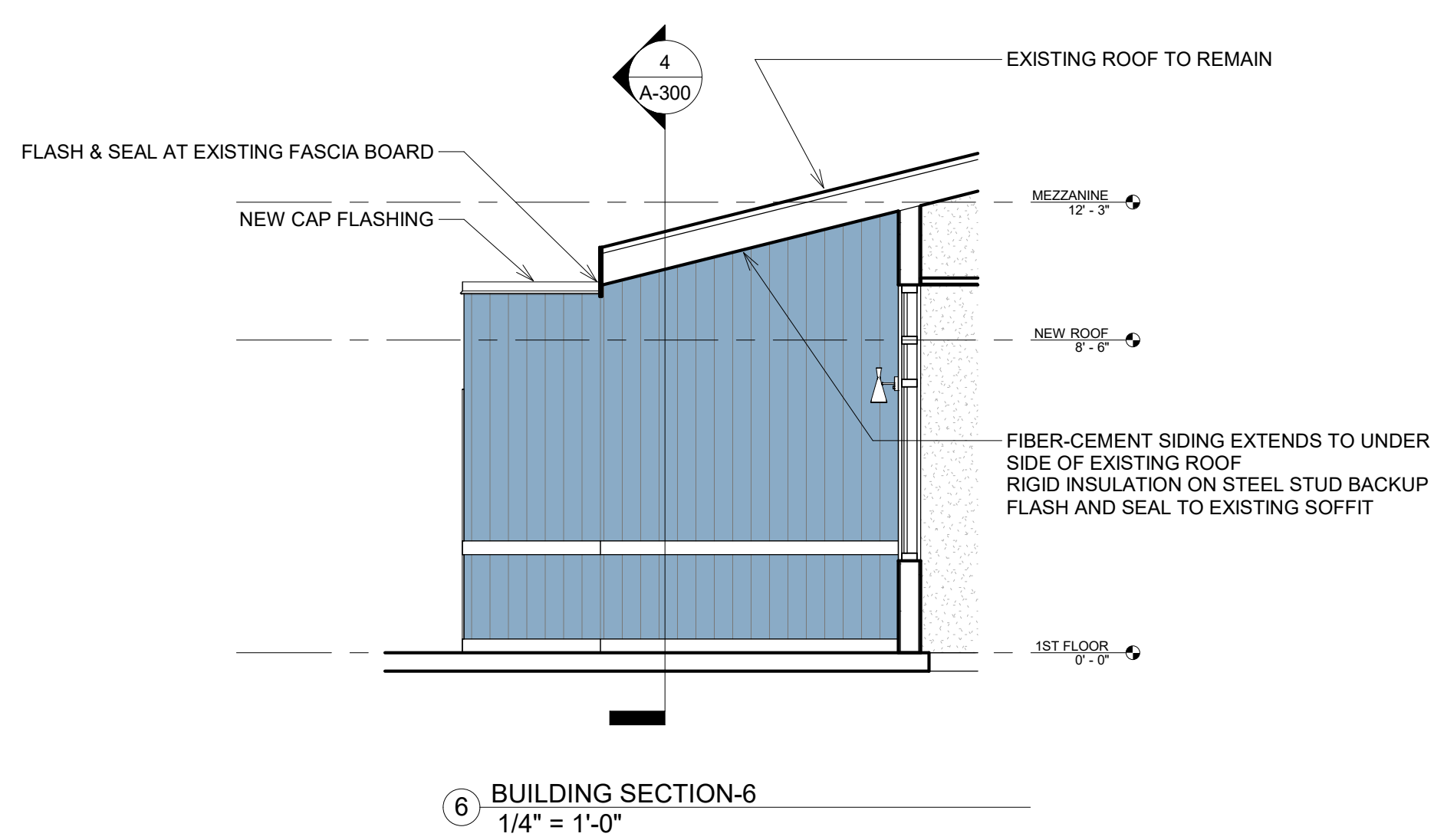
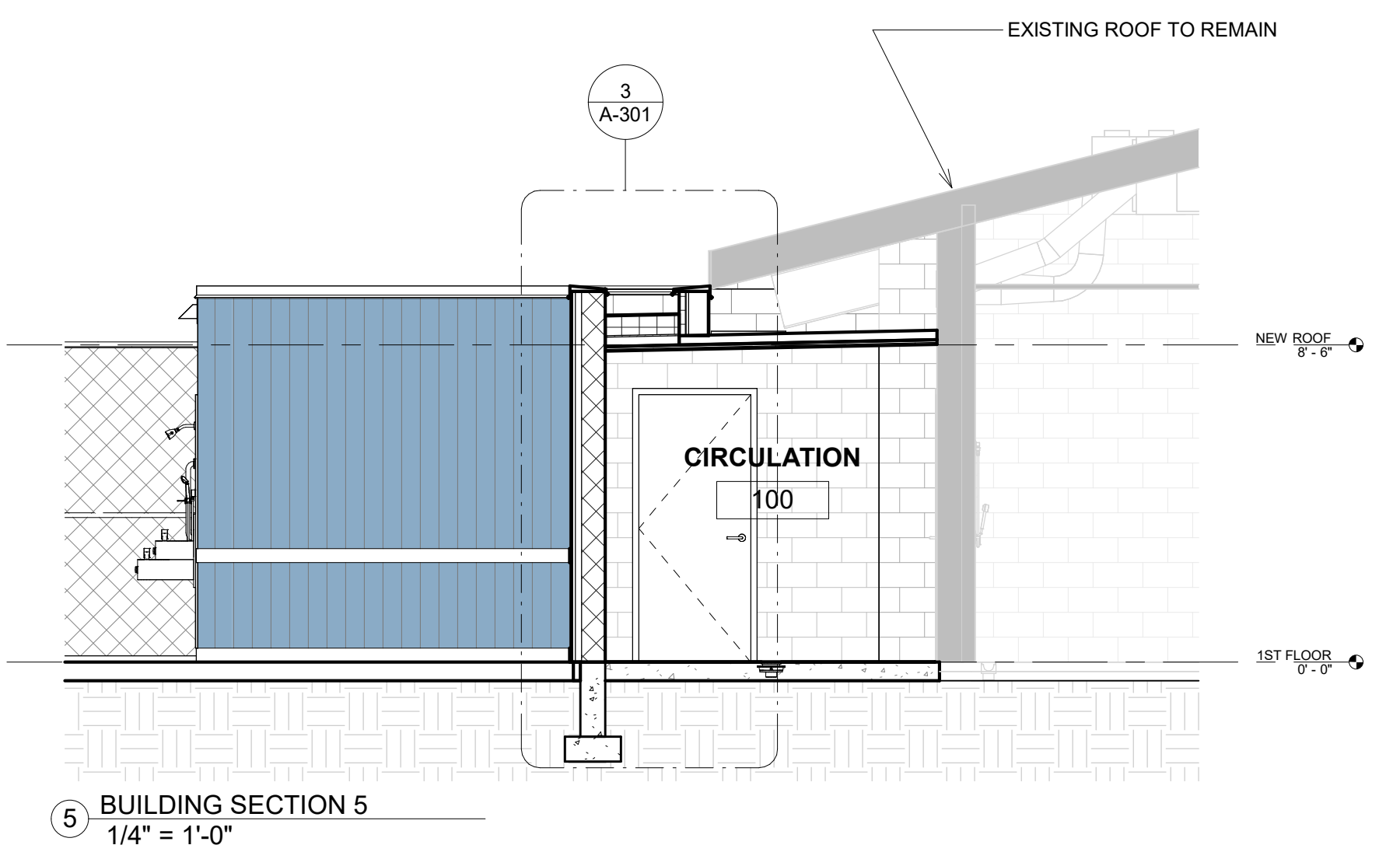
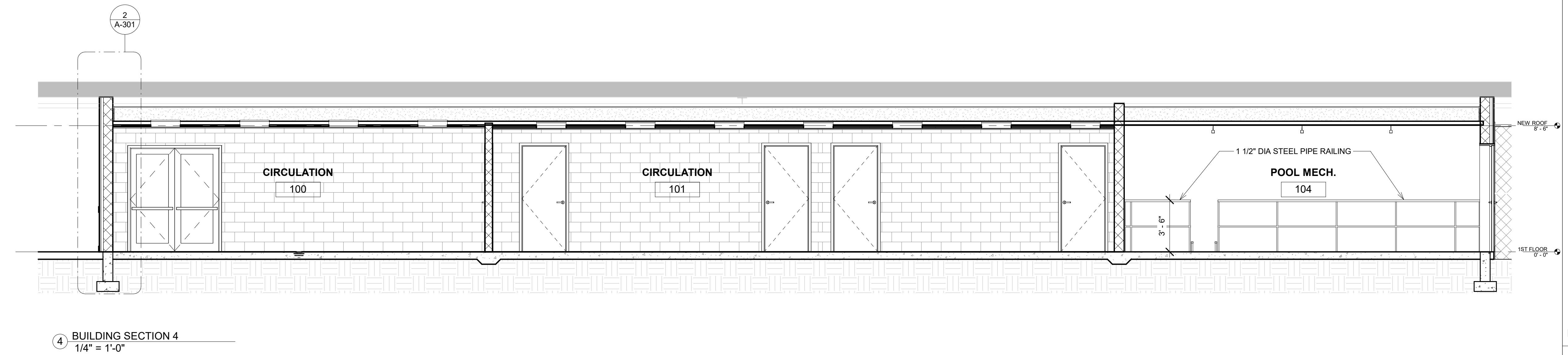
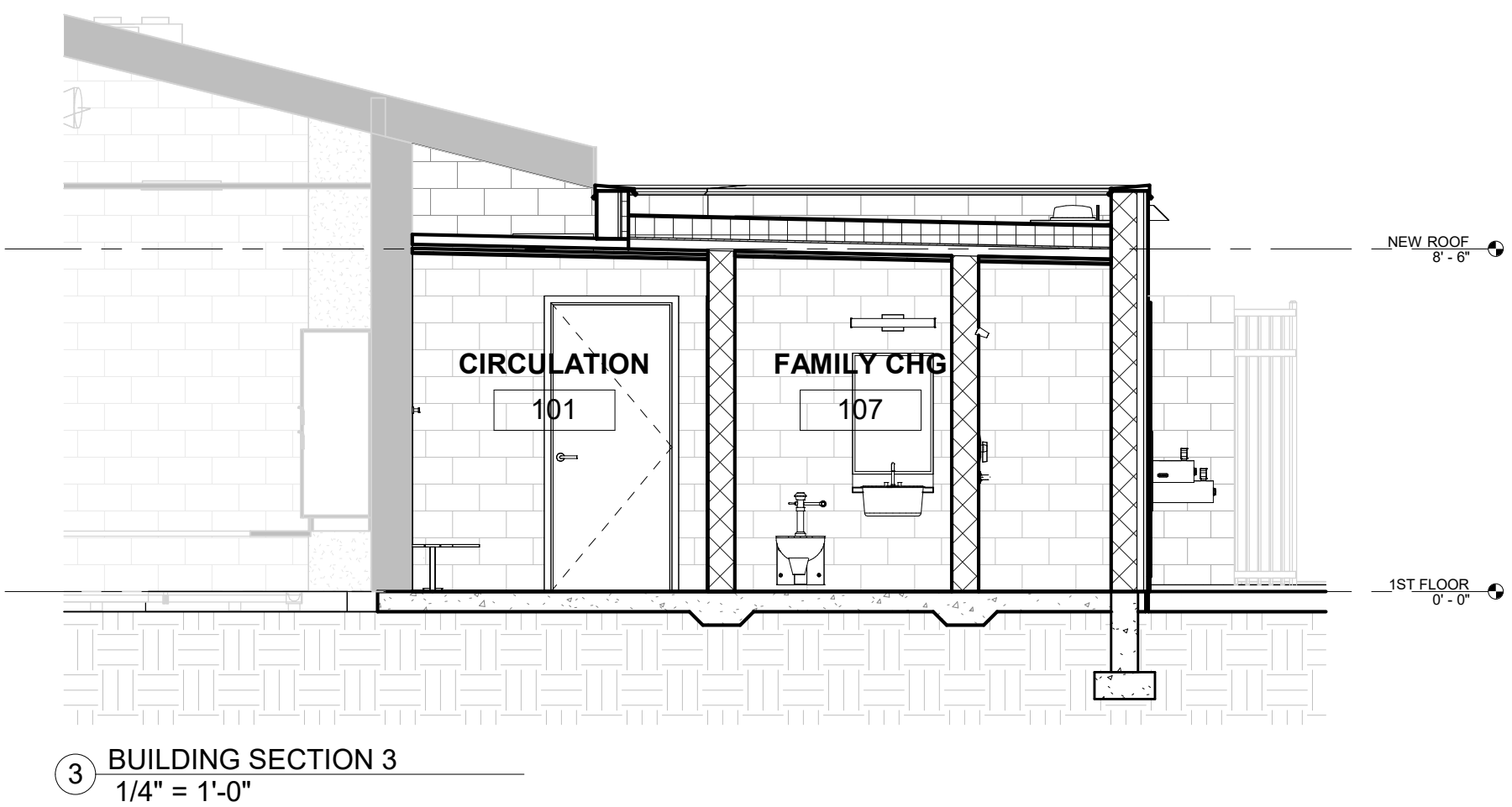
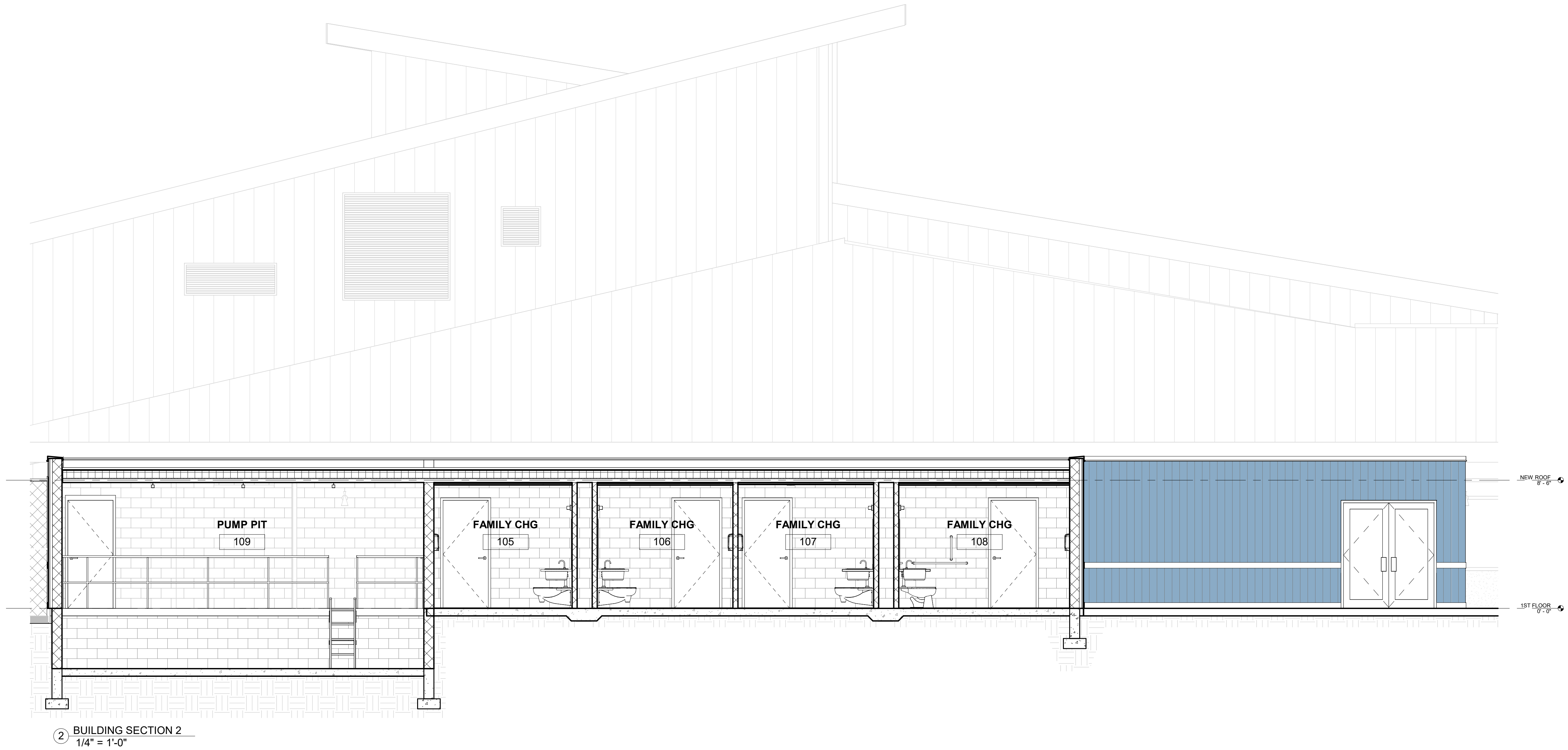
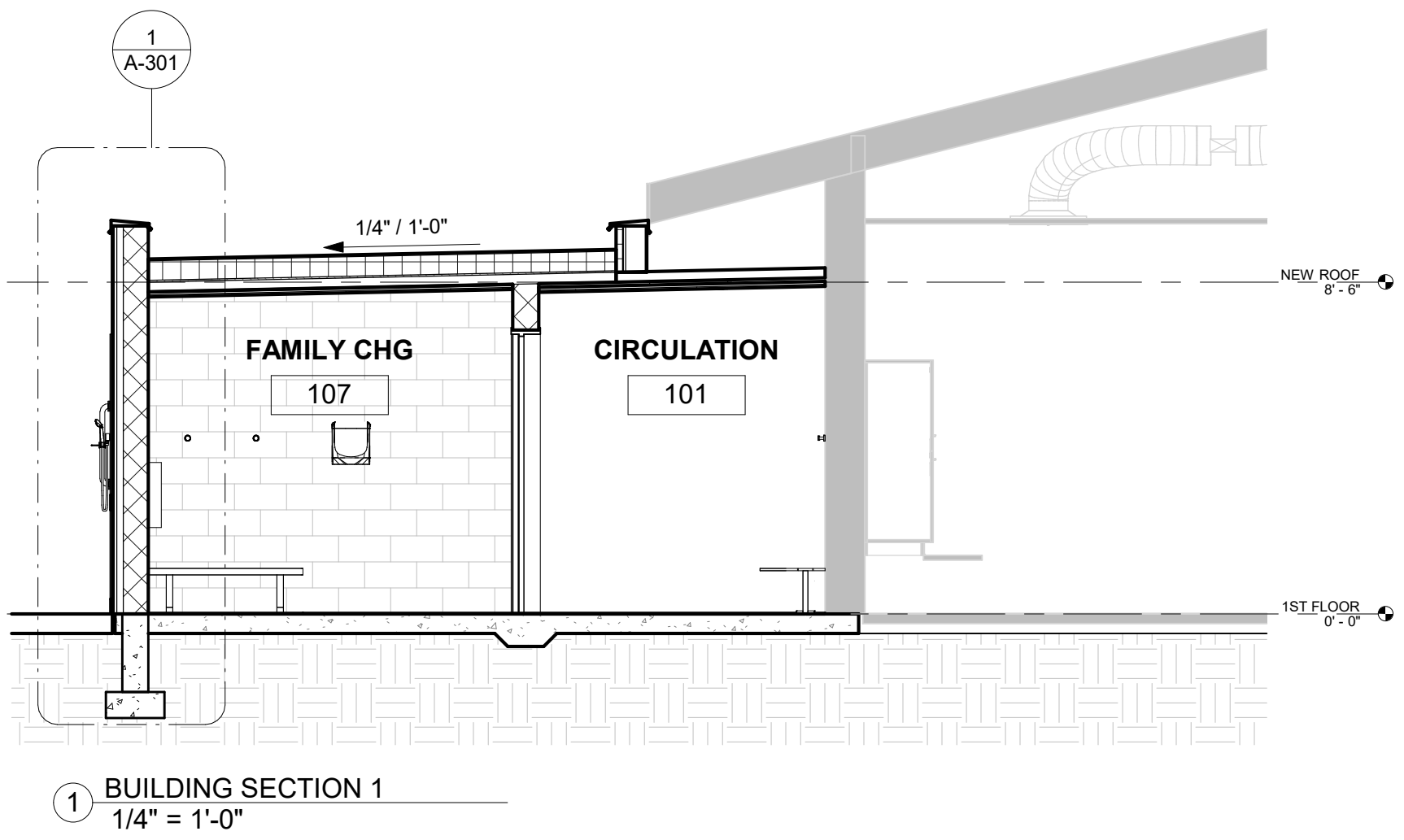


Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

HEET #:

A-300



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

CALC: 1 1/2" = 1'-0"

ISSUE DATE: 01/22/2024

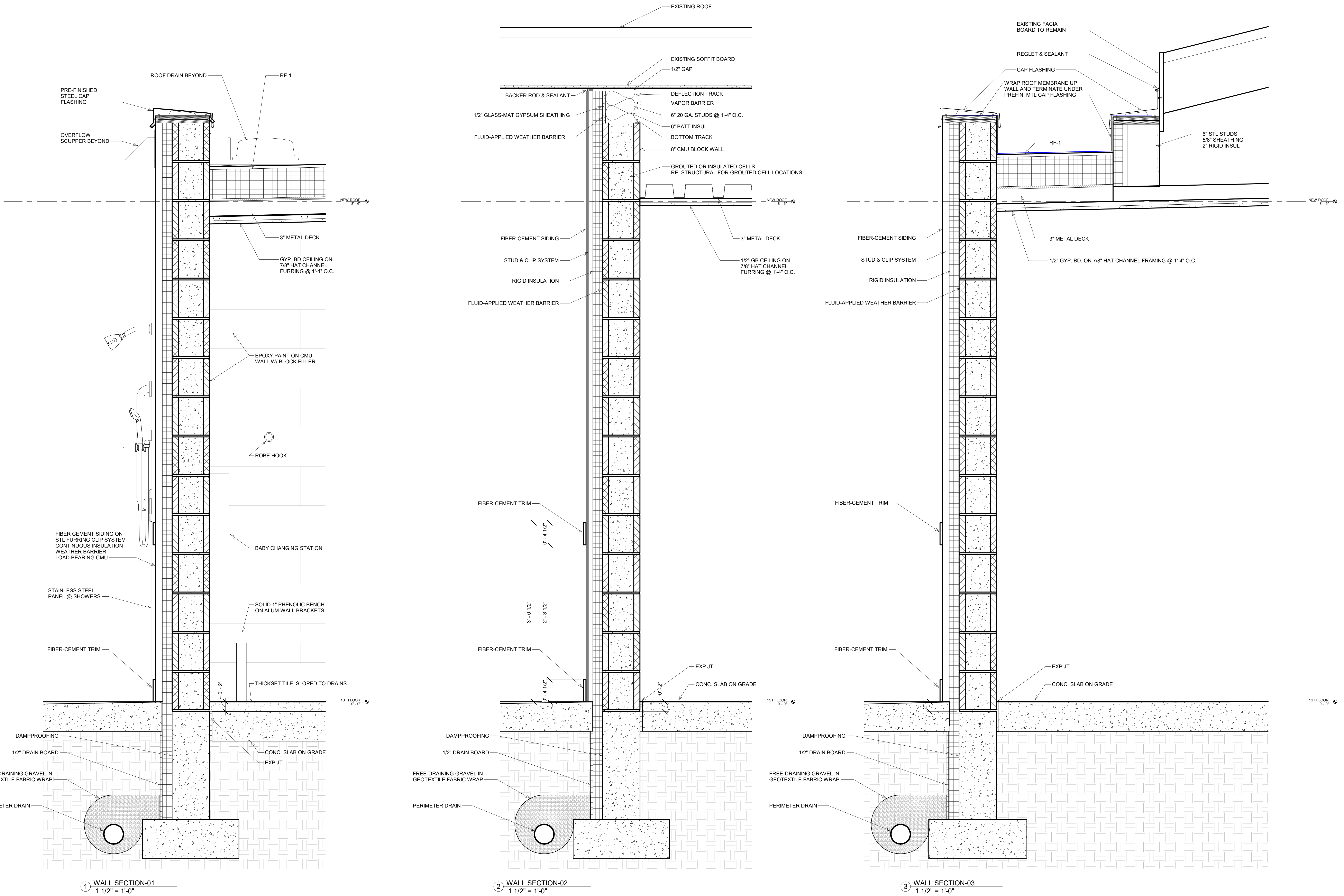
DRAWN BY: OLCE

EVD BY: RMc

PROJECT #: 23079

TITLE: WALL SECTIONS

SHEET #: A-001



NO. DATE: TITLE/PURPOSE:

SCALE: 1/2" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: OLCE

REV'D BY: RMc

PROJECT #: 23079

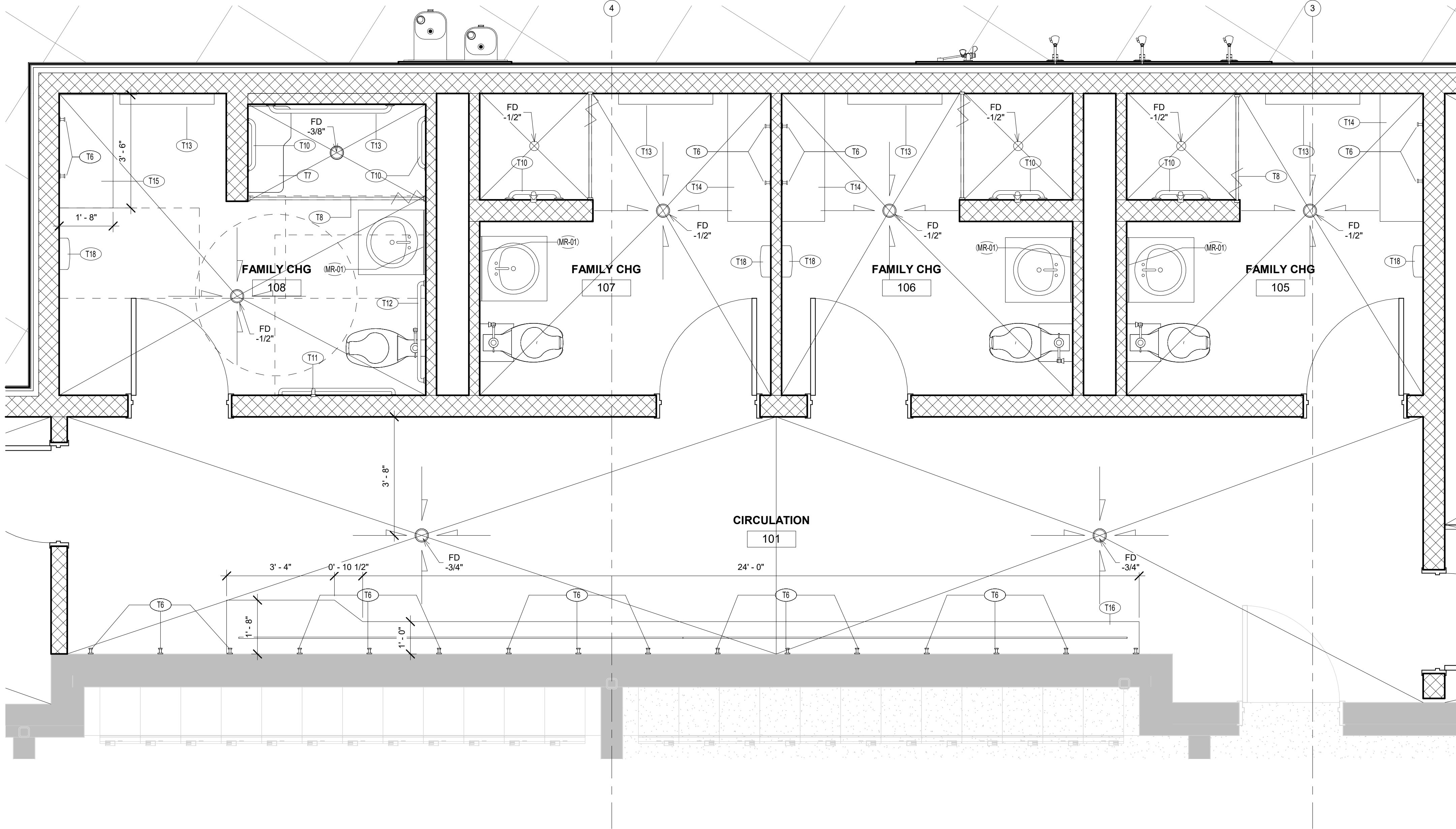
TITLE: ENLARGED WET AREA

SHEET #:

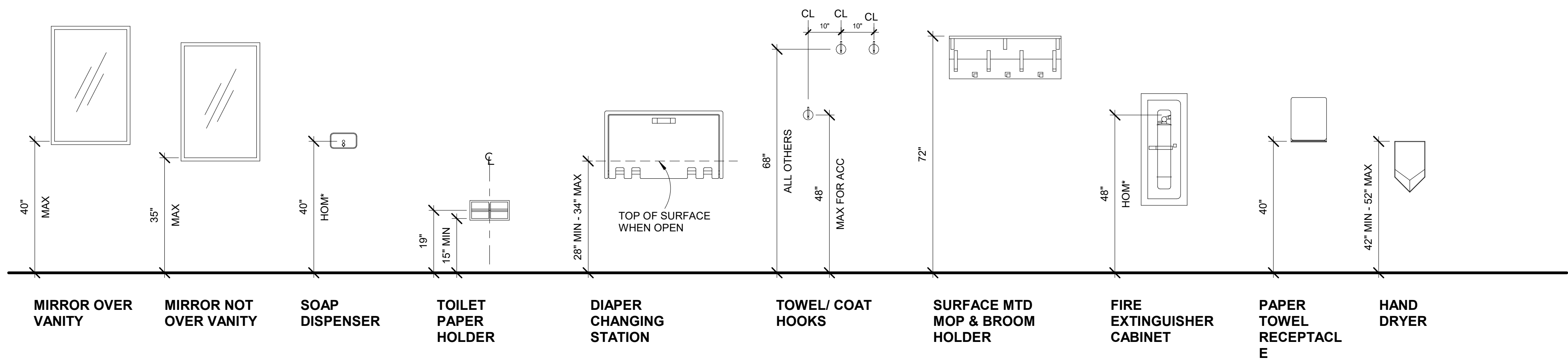
A-400

TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	Manufacturer	Model	Type Comments
T6	COAT HOOK SET OF 2	BOBRICK	B-76727	CONTRACTOR SUPPLIED/ INSTALLED
T7	REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT	BOBRICK	B-5181	CONTRACTOR SUPPLIED/ INSTALLED
T8	HEAVY DUTY SHOWER CURTAIN ROD W/ CONCEALED MOUNTING & STAINLESS STEEL SHOWER CURTAIN HOOKS	BOBRICK	B-207 & 204-1	CONTRACTOR SUPPLIED/ INSTALLED
T10	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 18" LONG	BOBRICK	B-5806 x 18	CONTRACTOR SUPPLIED/ INSTALLED
T11	1 1/4" DIA VERTICAL STAINLESS STEEL GRAB BAR 18" LONG	BOBRICK	B-5806 x 18	CONTRACTOR SUPPLIED/ INSTALLED
T12	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 36" LONG	BOBRICK	B-5806 x 36	CONTRACTOR SUPPLIED/ INSTALLED
T13	WALL MOUNTED BABY CHANGING STATION	KOALA	TBD	CONTRACTOR SUPPLIED/ INSTALLED
T14	PHENOLIC BENCH	MILLWORK		ALUMINUM BRACKET
T15	PHENOLIC BENCH - ACCESSIBLE	MILLWORK		
T16	LOCKER ROOM PHENOLIC BENCH	MILLWORK		
T18	ELECTRIC HAND DRYER	Worl Dryer	VEREdri	

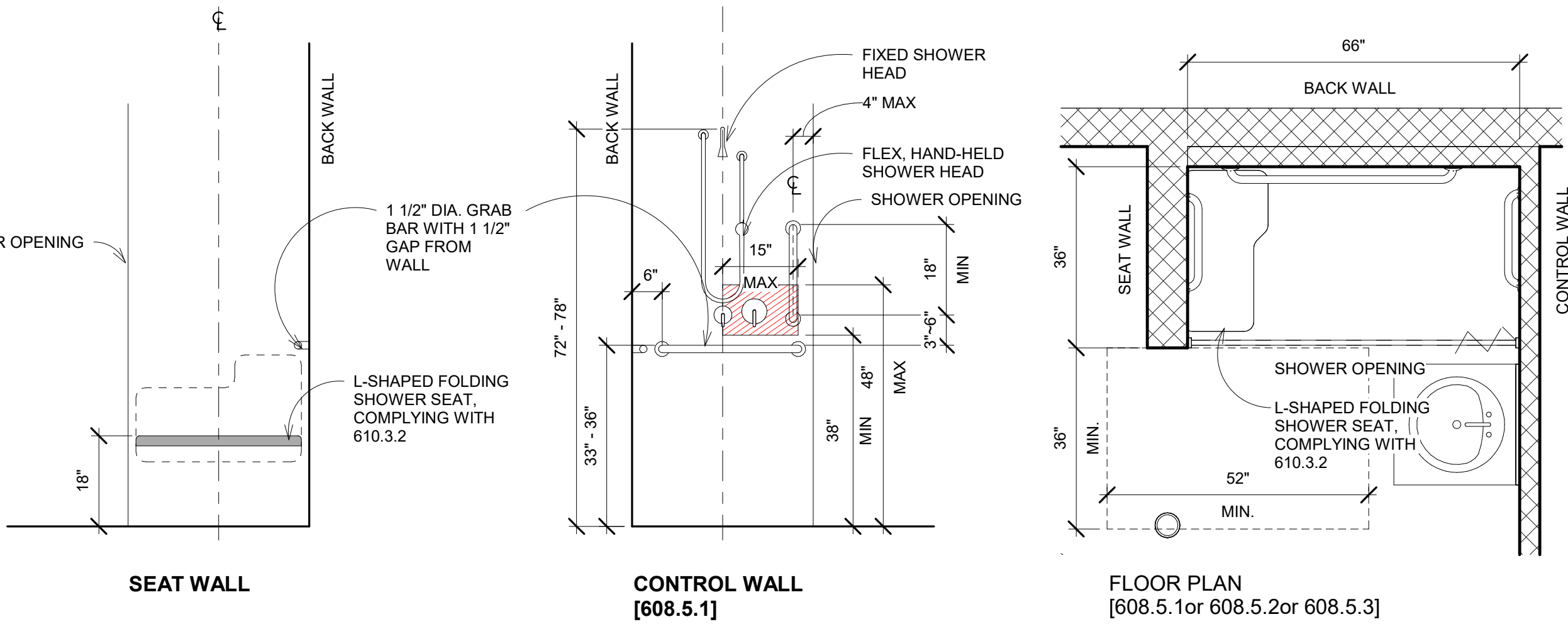
MIRROR SCHEDULE			
TYPE	WIDTH	HEIGHT	COMMENT
MR-01	24"	36"	



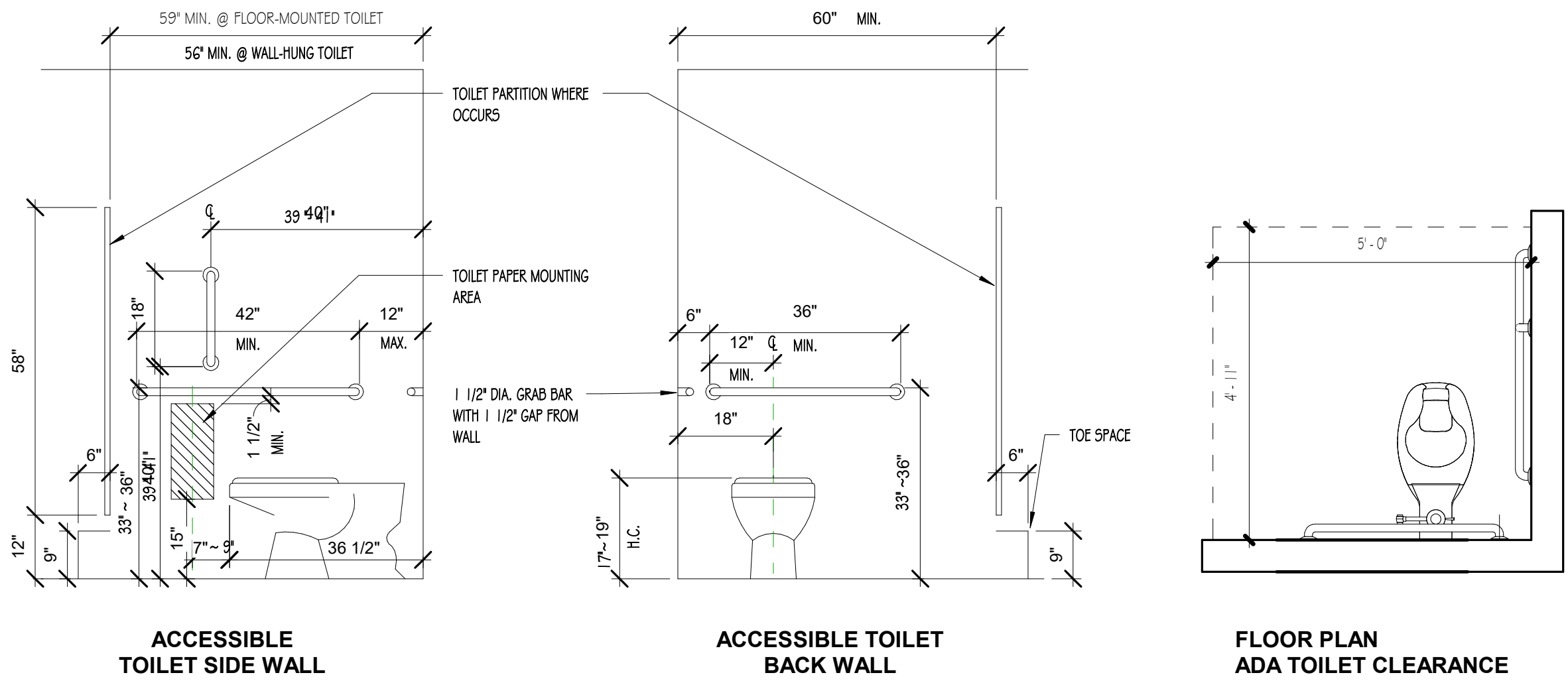
1 ENLARGED WET AREA PLAN
1/2" = 1'-0"



MOUNTING HEIGHTS:
TYPICAL TOILET ACCESSORIES



MOUNTING HEIGHTS:
SHOWER DETAILS



MOUNTING HEIGHTS:
TYPICAL PLUMBING FIXTURES AND ACCESSORIES

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/4" = 1'-0"

ISSUE DATE: 01/22/2024

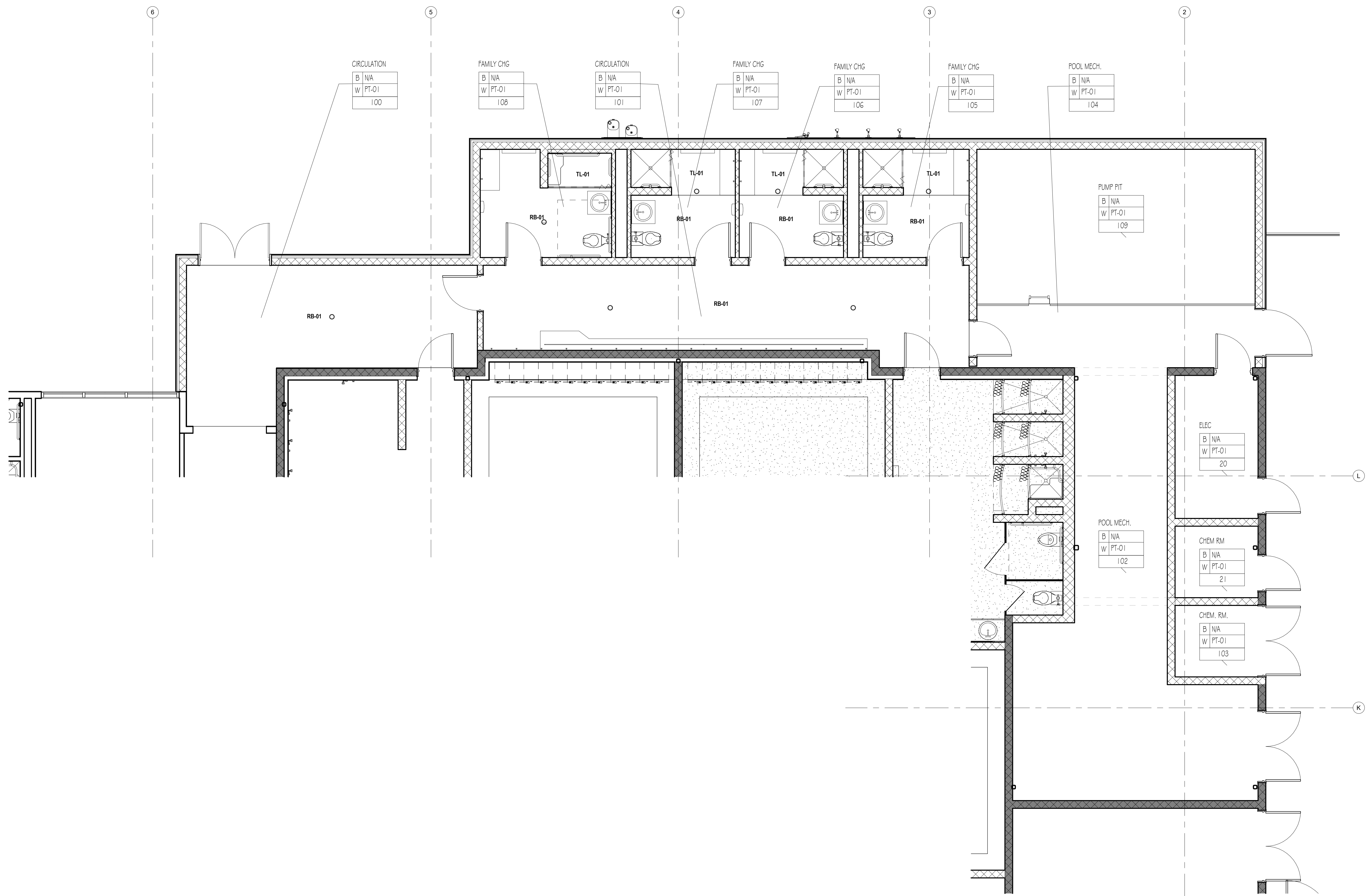
DRAWN BY: **OLCE**REV'D BY: **RMc**

PROJECT #: 23079

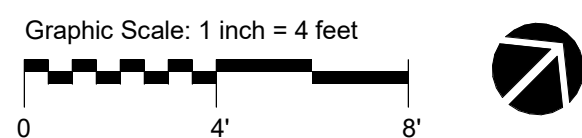
TITLE: **FIRST FLOOR FINISH PLAN**

SHEET #:

A-700



1 FIRST FLOOR PLAN
1/4" = 1'-0"



ROOM FINISH SCHEDULE					
Number	Name	Main Room finish			Finish Comment
		Floor Finish	Wall Finish	Base Finish	
20	ELEC	SC-01	PT-01	N/A	SC-01 = SEALED CONCRETE
21	CHEM RM	SC-01	PT-01	N/A	
100	CIRCULATION	RB-01	PT-01	N/A	RB-01 = RUBBER FLOORING, SKATE-RESISTANT ROLLS. 10 mm
101	CIRCULATION	RB-01	PT-01	N/A	
102	POOL MECH.	SC-01	PT-01	N/A	TL-01 = 2x2 CERAMIC SHOWER TILE. THICKSET. SLOPE TO DRAINS
103	CHEM. RM.	SC-01	PT-01	N/A	
104	POOL MECH.	SC-01	PT-01	N/A	
105	FAMILY CHG	RB-01/TL-01	PT-01	N/A	
106	FAMILY CHG	RB-01/TL-01	PT-01	N/A	
107	FAMILY CHG	RB-01/TL-01	PT-01	N/A	
108	FAMILY CHG	RB-01/TL-01	PT-01	N/A	
109	PUMP PIT	SC-01	PT-01	N/A	



118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

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CONSTRUCTION**

Mountain Recreation Eagle Pool

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[illegible]

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: EXISTING CONDITIONS &
DEMO-REMOVALS PLAN

SHEET #:

C-001





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CONSTRUCTION**

Mountain Recreation Eagle Pool

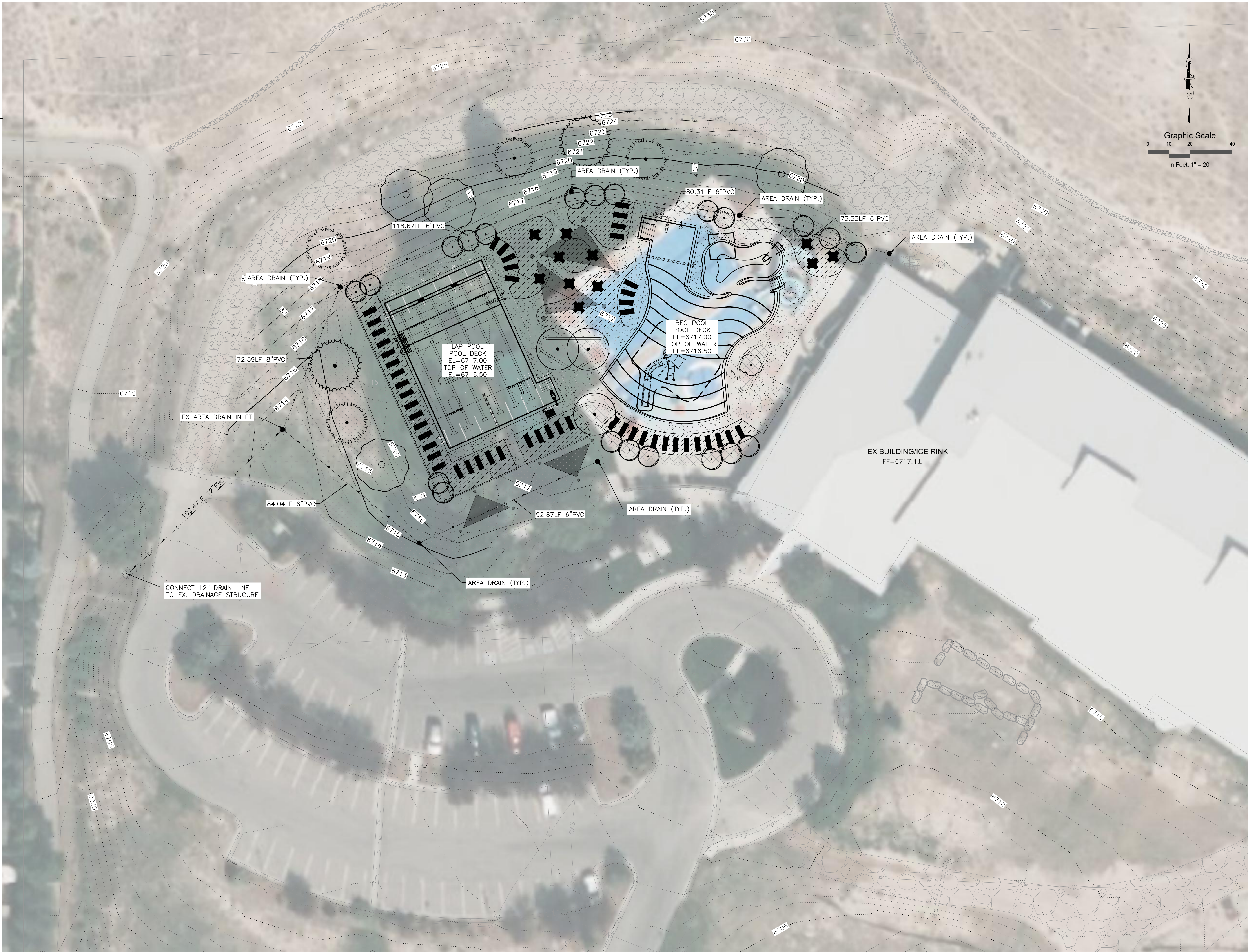
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SITE PLAN-ALT 1

SHEET #

C-101





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Mountain Recreation Eagle Pool

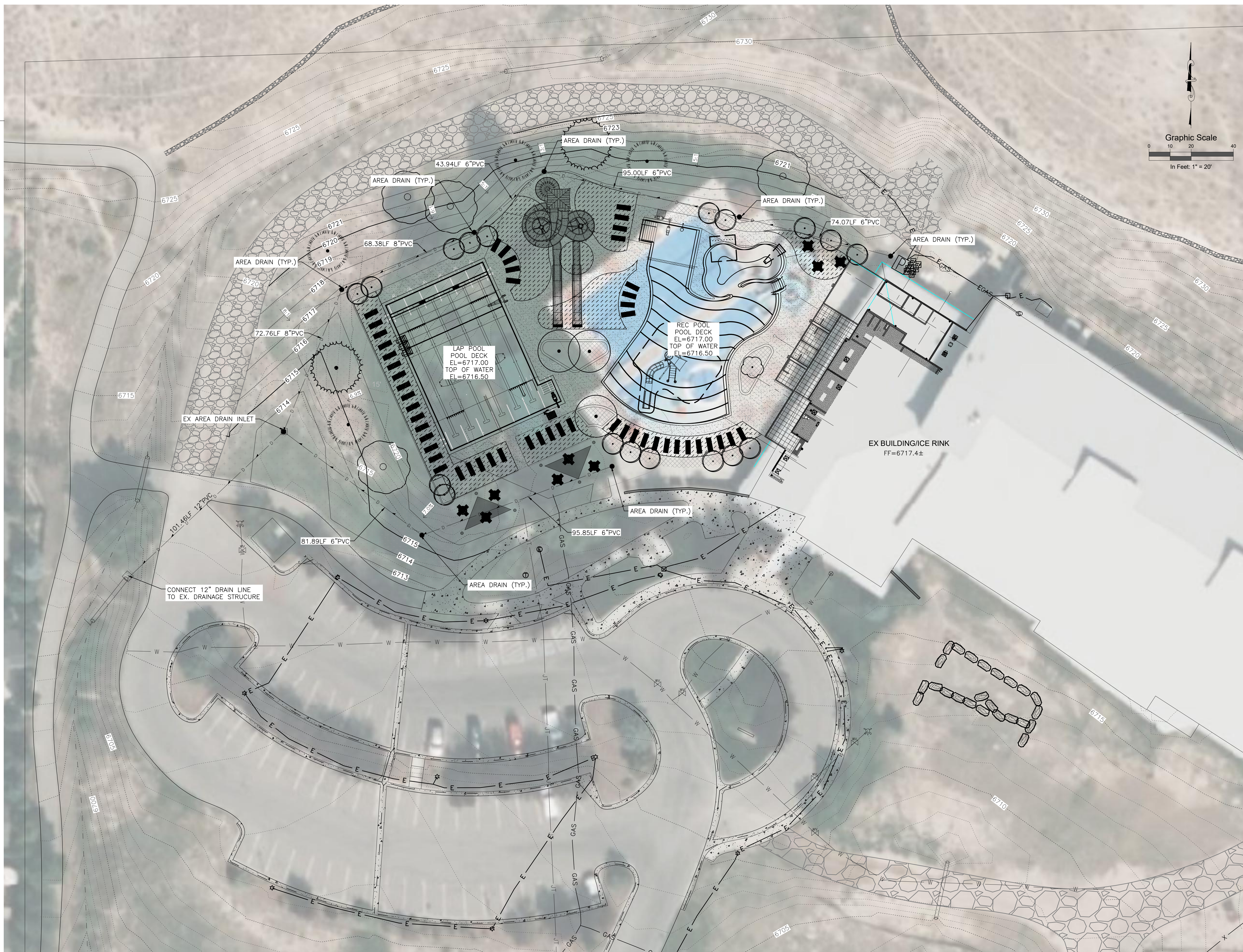
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SITEPLAN-ALT2

SHEET #:

C-102



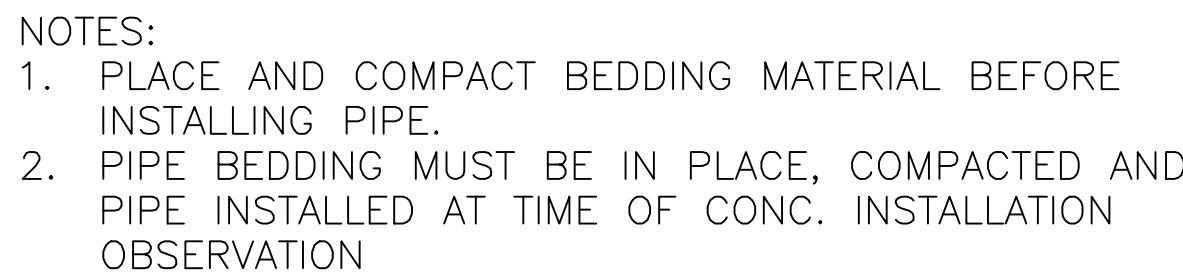


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DRAINAGE PIPE DETAIL
N.T.S.

[illegible]

SCALE: AS SHOWN
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SITE & UTILITY DETAILS

SHEET #

C-500

1. THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONTACT THE LANDSCAPE ARCHITECT FOR A PRE-CONSTRUCTION MEETING PRIOR TO START OF ANY WORK SHOWN ON THESE PLANS.
2. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
3. DRAWINGS ARE INTENDED TO BE PRINTED ON _24_X_36_ PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
4. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
5. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
6. SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
7. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
8. IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
9. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
10. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
13. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
14. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
17. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS.
18. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
19. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
22. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
23. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
24. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
26. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE

- PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT.
- TRANSPORTATION METHODS ON PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
27. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
28. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
29. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE IS PROHIBITED.
30. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
31. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
32. MAINTENANCE ACCESS BENCHES: IF MAINTENANCE BENCHES OR ACCESS ROADS EXIST ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE BENCHES OR ACCESS ROADS DURING CONSTRUCTION. ANY BENCHES OR ACCESS ROADS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING BENCHES AND ACCESS ROADS DURING THE CONSTRUCTION PERIOD. IF ACCESS NEEDS TO BE BLOCKED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INTERRUPTION OF ACCESS.
33. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

HE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKE PRECEDENCE OVER WRITTEN QUANTITIES.

THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.

THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.

THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.

REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AROUND FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT.

LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.

PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.

ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION AT 4 cu.yrds/1,000sf OR AS NOTED IN THE TECHNICAL SPECIFICATIONS.

TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.

ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT

- SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
14. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
15. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
16. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
17. SHRUB, GROUND COVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY EDGER AS SPECIFIED IN MATERIALS SCHEDULE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3' OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.
18. ALL SHRUB BEDS ARE TO BE MULCHED WITH LANDSCAPE MULCH AS SPECIFIED IN MATERIALS SCHEDULE. LANDSCAPE
19. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
20. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOO TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH SPECIFIED SEED MIX.
21. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
22. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
23. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
24. WHEN PLANTER URNS ARE SHOWN ON PLANS, CONTRACTOR SHALL INCLUDE THE FOLLOWING: PLANTER MIX, ANNUAL FLOWER PLANTING PROGRAM (INCLUDES 2 PLANTINGS FOR THE 1ST YEAR (SPRING AND FALL) AND WINTER HAND-WATERING AS NEEDED. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO PROVIDE ANNUAL PLANTING SELECTION FOR REVIEW BY OWNER. IRRIGATION FOR PLANTERS TO BE ON SEPARATE ZONE(S). CONTRACTOR TO COORDINATE PLACEMENT OF NECESSARY SLEEVING PRIOR TO PLACEMENT OF PAVEMENT.
25. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
26. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
27. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL IMPROVEMENTS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT.

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
3. ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT A THOROUGH SITE INSPECTION AND REVIEW OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LANDSCAPE PLAN, UTILITY PLAN, CIVIL UTILITY PLAN, ARCHITECTURE PLAN, GRADING AND DRAINAGE PLAN AND ALL OTHER ASSOCIATED PLANS AND SPECIFICATIONS THAT AFFECT THIS WORK PRIOR TO START OF WORK. IF THE AND CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS ON SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
5. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN ALL IRRIGATION DISTRIBUTION LINES AND ALL UTILITIES (EXISTING OR PROPOSED), CONDUIT, STORM WATER COMPONENTS, DRAINS, ETC.
7. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS AND INSTALL THE IRRIGATION SYSTEM AND ITS COMPONENTS PER MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS REQUIRED BY ANY LOCAL AND STATE AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE.
8. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PAYING FOR CERTIFICATION OF THE BACKFLOW PREVENTER BY A STATE CERTIFIED INSPECTOR. THE CONTRACTOR SHALL PROVIDE CERTIFICATES TO OWNER'S REPRESENTATIVE PRIOR TO PROJECT ACCEPTANCE.
9. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN LANDSCAPE AREAS AND WITHIN THE PROJECT LIMITS. EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHIC CLARITY ONLY. IF THERE IS A QUESTION REGARDING THE LOCATION OF ANY COMPONENT OF THE IRRIGATION SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR NEGLECTS TO NOTIFY THE NECESSARY PARTIES, THE CONTRACTOR SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO ENSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYSTEM AND ITS COMPONENTS.
10. ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS, OR AS STIPULATED IN THE GEOTECHNICAL REPORT , WHICHEVER IS GREATER. EQUIPMENT MAY BE SHOWN IN THIS AREA FOR GRAPHIC CLARITY. COORDINATE ALL REQUIRED SETBACKS WITH OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
11. EACH VALVE SHALL BE INSTALLED IN A SEPARATE VALVE BOX AS DETAILED. ALL VALVE BOXES AND LIDS SHALL BE COMMERCIAL GRADE, PLASTIC WITH SELF LOCKING COVERS. LID COLOR TO BE GREEN. INSTALL FLUSH TO FINISH GRADE AND PER CONSTRUCTION DETAILS. DO NOT INSTALL IN PAVED AREAS OR IN BOTTOMS OF DRAINAGE SWALES/BASINS.
12. CONTRACTOR SHALL INSTALL DETECTABLE MARKING TAPE OR #14g DIRECT BURY TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
13. PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER ROUTING OF IRRIGATION PIPING. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
14. IRRIGATION CONSTRUCTION DOCUMENTS TO BE PROVIDED WITH CONSTRUCTION DOCUMENT SUBMITTAL.
15. ALL TREES AND SHRUBS TO BE DRIP IRRIGATION.

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|--------|--------------------------|
| LP-001 | LANDSCAPE NOTES |
| LP-002 | LANDSCAPE SCHEDULE |
| LP-100 | OVERALL LANDSCAPE PLAN |
| LP-101 | LANDSCAPE PLAN |
| LP-102 | LANDSCAPE PLAN |
| LP-103 | LANDSCAPE PLAN ALTERNATE |
| LP-104 | LANDSCAPE PLAN ALTERNATE |
| LP-501 | LANDSCAPE DETAILS |
| LP-502 | LANDSCAPE DETAILS |

SHEET #

LP-001



NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631



PLANT SCHEDULE

	SPECIALTY MATERIALS	
CODE	DESCRIPTION	PRODUCT NAME
MS-01	SHADESAIL (A)	TENSHON SHADESAILS
	NOTATION	
CODE	DESCRIPTION	DETAIL
N-01	TREE PLANTING	3 / LP-501
N-02	SHRUB PLANTING	1/ LP-501
N-03	TREE PLANTING ON SLOPE	3 / LP-502
N-04	CONCRETE PLANTER SEATWALL	5 / LP-502
N-05	6" CONCRETE CURB	
N-07	BENDA BOARD EDGER	EPIC PLASTICS OR APPROVED EQUAL

NOTES:

1. METHOD OF IRRIGATION SHALE BE DRIP FEED BESIDES ABOVE GROUND SPRAY FOR NATIVE SEED AREAS AND TURF.
2. PARKING LOT SHALE REMAIN THE SAME WITH NO SNOW STORAGE CHANGES.
3. DEBRIS STORAGE AND STAGING AREAS ARE IDENTIFIED ON THE DEMO PLAN.

SCALE: VARIES
ISSUE DATE: 02/16/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE
SCHEDULE

SHEET #

LP-002

NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1" = 20'-0"
 ISSUE DATE: 02/16/2024
 PROJECT #: 1250-01-3647
 TITLE: OVERALL LANDSCAPE
 PLAN

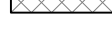
SHEET #:

LP-100

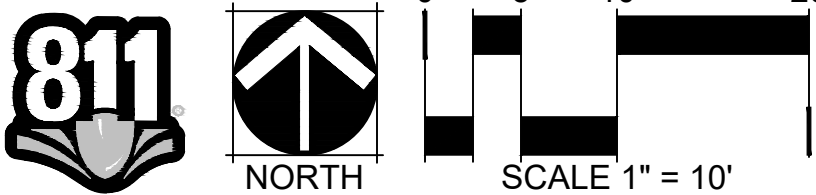


**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
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<u>SYMBOL</u>	<u>CODE</u>	<u>BOTANICAL NAME</u>
<u>TREES</u>		
	CE OC	CELTIS OCCIDENTALIS
<u>DECIDUOUS CANOPY TREES</u>		
	PO AN	POPULUS ANGUSTIFOLIA
	PO ER	POPULUS TREMULOIDES ERECTA
<u>EVERGREEN TREES</u>		
	PI PU	PICEA PUNGENS
	PS ME	PSEUDOTSUGA MENZIESII
<u>ORNAMENTAL TREES</u>		
	AM AL	AMELANCHIER ALNIFOLIA
<u>ORNAMENTAL GRASSES</u>		
	CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'
<u>DECIDUOUS SHRUBS</u>		
	PO FR	POTENTILLA FRUTICOSA
	RI AU	RIBES AUREUM
<u>EVERGREEN SHRUBS</u>		
	AR UV	ARCTOSTAPHYLOS UVA-URSI
<u>SYMBOL</u>	<u>CODE</u>	<u>BOTANICAL NAME</u>
<u>GROUND COVERS</u>		
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX
	TUR BLU	TURF SOD BLUEGRASS

LANDSCAPE MATERIALS		
<u>CODE</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	M-02 COBBLE MULCH	2,351 SF
	M-03 CONCRETE	6,465 SF
	M-04 SYNTHETIC TURF	4,536 SF

<u>CODE</u>	<u>NOTATION DESCRIPTION</u>	<u>QTY</u>
N-01	TREE PLANTING	
N-02	SHRUB PLANTING	
N-03	TREE PLANTING ON SLOPE	
N-04	CONCRETE PLANTER SEATWALL	
N-05	6" CONCRETE CURB	
N-07	BENDA BOARD EDGER	



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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1" = 10'-0"
ISSUE DATE: 02/16/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN

SHEET #:
LP-101



NOT FOR CONSTRUCTION

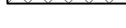
Mountain Recreation Eagle P

1700 Bull Pasture Rd, Eagle, CO 81631

01/22/2024	100% DDs
02/16/2024	EAGLE SITE PLAN APPLICATION

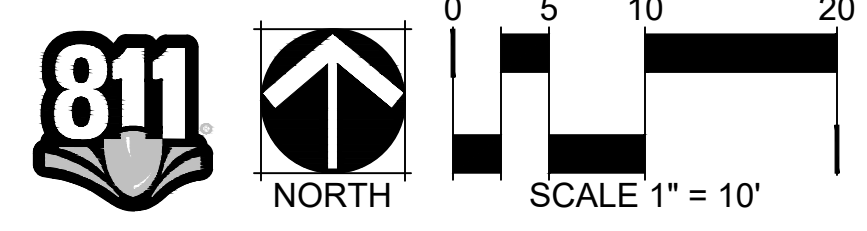
SHEET #:
LP-102

<u>SYMBOL</u>	<u>CODE</u>	<u>BOTANICAL NAME</u>
<u>TREES</u>		
	CE OC	CELTIS OCCIDENTALIS
<u>DECIDUOUS CANOPY TREES</u>		
	PO AN	POPULUS ANGUSTIFOLIA
	PO ER	POPULUS TREMULOIDES ERECTA
<u>EVERGREEN TREES</u>		
	PI PU	PICEA PUNGENS
	PS ME	PSEUDOTSUGA MENZIESII
<u>ORNAMENTAL TREES</u>		
	AM AL	AMELANCHIER ALNIFOLIA
<u>ORNAMENTAL GRASSES</u>		
	CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'
<u>DECIDUOUS SHRUBS</u>		
	PO FR	POTENTILLA FRUTICOSA
	RI AU	RIBES AUREUM
<u>EVERGREEN SHRUBS</u>		
	AR UV	ARCTOSTAPHYLOS UVA-URSI
<u>SYMBOL</u>	<u>CODE</u>	<u>BOTANICAL NAME</u>
<u>GROUND COVERS</u>		
	SEE PBS	SEED PBS! LOW GROW NATIVE SEED MIX
	TUR BLU	TURF SOD BLUEGRASS

LANDSCAPE MATERIALS		
<u>CODE</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	M-02 COBBLE MULCH	2,351 SF
	M-03 CONCRETE	6,465 SF
	M-04 SYNTHETIC TURF	4,536 SF

<u>CODE</u>	<u>DESCRIPTION</u>	<u>QTY</u>
N-01	TREE PLANTING	
N-02	SHRUB PLANTING	
N-03	TREE PLANTING ON SLOPE	
N-04	CONCRETE PLANTER SEATWALL	
N-05	6" CONCRETE CURB	
N-07	BENDA BOARD EDGER	23 LF

-



- ① FINISH GRADE
- ② ADJACENT LANDSCAPE, SEE LANDSCAPE PLANS FOR TYPE
- ③ BENDA BOARD EDGER REFER TO MATERIAL SCHEDULE, SHEET L-102
- ④ NATIVE SEED OR ADJACENT LANDSCAPE, REFER TO LANDSCAPE PLANS
- ⑤ SUBGRADE
- ⑥ EDGER STAKE, INSTALL PER MANUFACTURER SPECIFICATIONS

NOTE:

1. BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED.
2. CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER.
3. ALL JUNIPERS SHOULD BE PLANTED SO THE TOP OF THE ROOT-BALL OCCURS ABOVE THE FINISH GRADE OF THE MULCH LAYER.
4. DIG PLANT PIT TWICE AS WIDE AND AS HIGH AS THE CONTAINER.
5. PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING, DO NOT PRUNE MORE THAN 20% OF LIMBS.

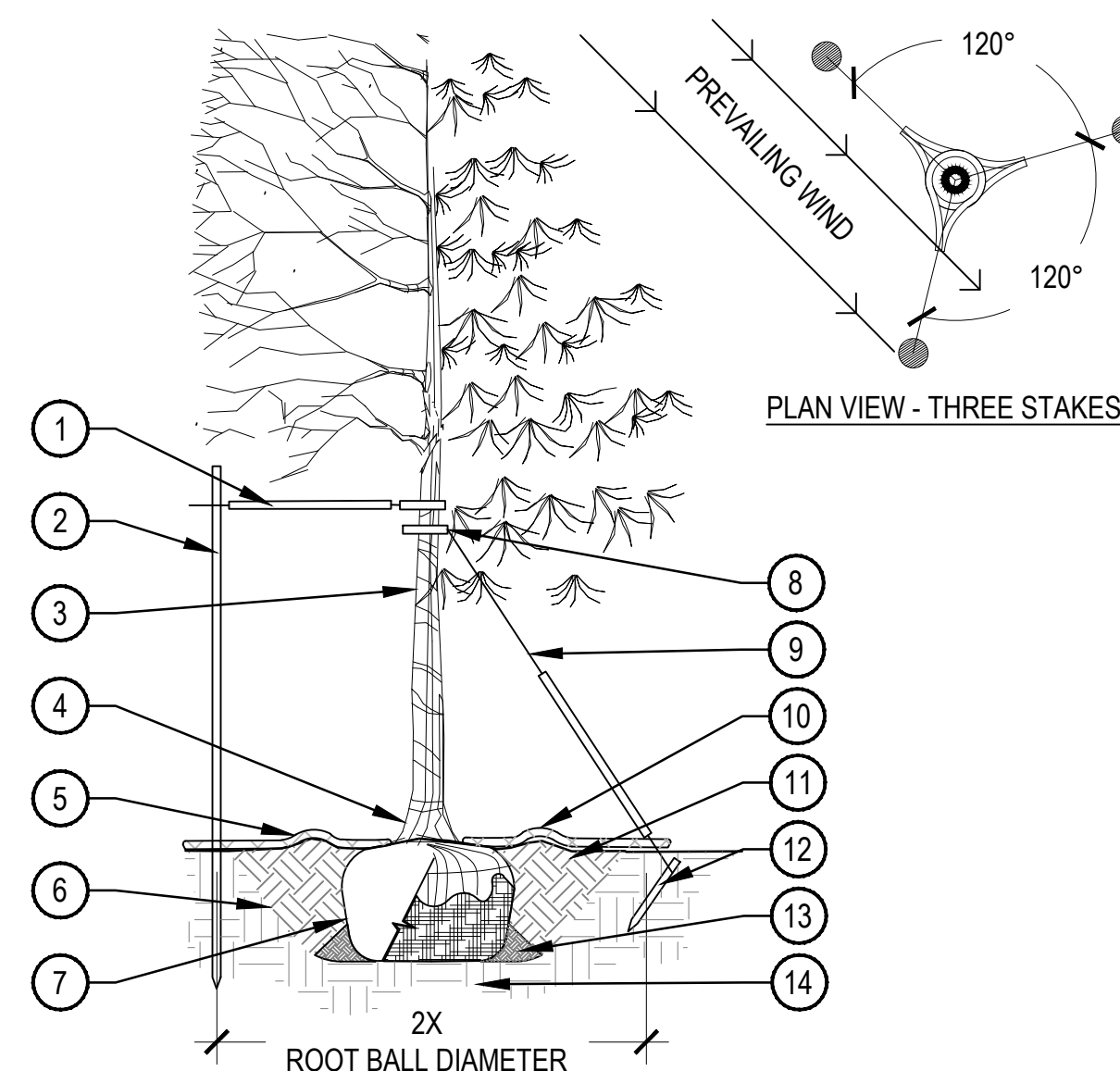
1 SHRUB PLANTING

SCALE: 1 1/2" = 1'-0"

2 SYNTHETIC TURF

SCALE: 1 1/2" = 1'-0"

N.T.S.



- ① PLACE MINIMUM 1/2" PVC PIPE AROUND EACH WIRE. EXPOSED WIRE SHALL BE MAXIMUM 2" EACH SIDE
- ② 6'-0" UNTREATED WOOD POST, MINIMUM 1.5" DIAMETER, ALL SHALL BE DRIVEN OUTSIDE ROOTBALL AND IN UNDISTURBED SOIL
- ③ TREE WRAP TO BE INSTALLED ONLY FROM OCTOBER 1 THROUGH APRIL 30, DECIDUOUS ONLY, WRAP FROM BASE OF TRUNK TO BOTTOM LIMB
- ④ PLANT TREE SO THAT TOP MOST MAJOR ROOT IS 1"-2" ABOVE FINISHED GRADE
- ⑤ 2'-0" RADIUS MULCH RING, VENTERED ON TRUNK, 3" DEPTH, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK, FINISHED GRADE REFERENCES TOP OF MULCH
- ⑥ 1:1 SLOPE ON SIDES OF PLANTING HOLE
- ⑦ ROPES AT TOP OF ROOTBALL SHALL BE CUT, REMOVE TOP 1/3 OF BURLAP, NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED
- ⑧ GROMMETED NYLON STRAPS
- ⑨ GALVANIZED WIRE, MINIMUM 12 GAUGE CABLE, TWIST WIRE ONLY TO KEEP FROM SLIPPING
- ⑩ 4-6" HIGH WATER SAUCER IN NON-TURF AREAS
- ⑪ BACKFILL WITH BLEND OF EXISTING SOIL AND A MAXIMUM 20%, BY VOLUME, ORGANIC MATERIAL, WATER THOROUGHLY WHEN BACKFILLING
- ⑫ 2'-0" STEEL T-POST, ALL SHALL BE DRIVEN BELOW GRADE AND OUTSIDE ROOTBALL IN UNDISTURBED SOIL
- ⑬ PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR TAMP, SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS
- ⑭ PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT

3 BENDA BOARD EDGER

PRUNING NOTES:

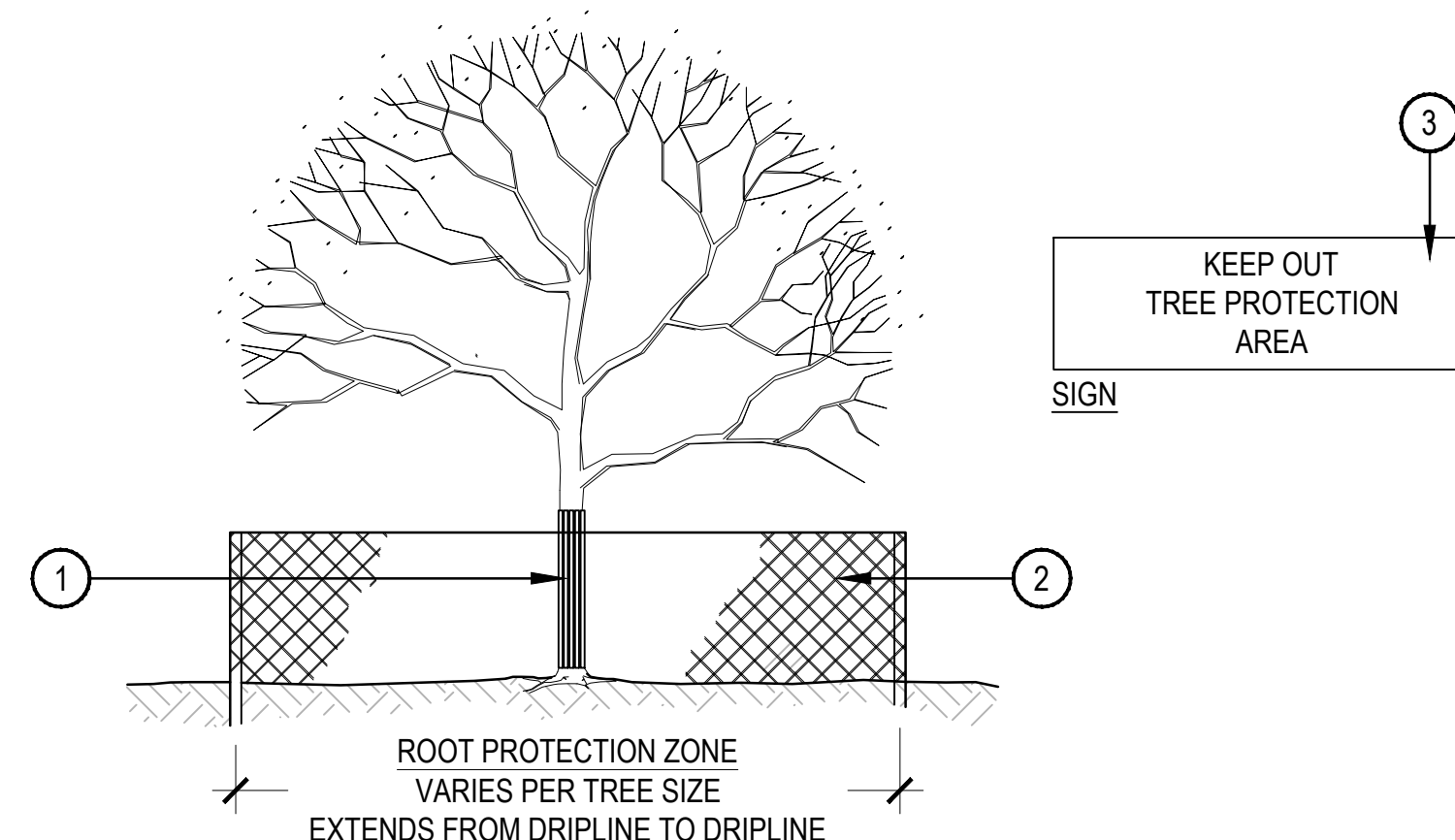
1. ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
2. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

STAKING NOTES:

1. STAKE TREES PER FOLLOWING SCHEDULE, THEN REMOVE AT END OF FIRST GROWING SEASON.
 - a. 1-1/2" CALIPER SIZE - MIN. 1 STAKE ON SIDE OF PREVAILING WIND (GENERALLY N.W. SIDE).
 - b. 1-1/2" - 3" CALIPER SIZE - MIN. 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
 - c. 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
2. WIRE OR CABLE SHALL BE MIN. 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.

4 TREE PLANTING DETAIL

SCALE: 3/16" = 1'-0"



1. **TRUNK PROTECTION** - 1" BOARDS NO LESS THAN 5' LONG OR TO REACH FIRST SCAFFOLD BRANCH. WIRE TO HOLD BOARDS IN PLACE, NO NAILS PERMITTED. INCLUDE WRAPPING OF BURLAP UNDER BOARDS.
2. **BRANCH PROTECTION** - PROTECT LOWER BRANCHES OF TREE CANOPY. PROVIDE CONSTRUCTION FENCING OR EQUAL AT DRIPLINE MINIMUM.
3. **PLACE SIGNS EVERY 50', PLACE SIGNS WHERE VISIBLE, ATTACH TO FENCING.**

5 TREE PROTECTION

SCALE: 1/8" = 1'-0"



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DENVER, COLORADO 80205
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NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

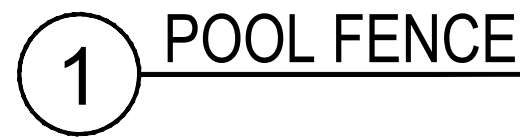
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: VARIES
ISSUE DATE: 02/16/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE DETAILS

SHEET #:

LP-501



- NOTES:**
1. FENCE SHALL BE BY AMERISTAR FENCE OR APPROVED EQUAL, CONTACT: AARON COPE 918-879-5884 acope@ameristarfence.com www.ameristarfence.com
 2. FENCE STYLE FOR POOL ENCLOSURE SHALL BE: MONTAGE PLUS MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
 3. FENCE STYLE FOR ALL OTHER LOCATIONS SHALL BE: MONTAGE PLUS (STANDARD 4" PICKET SPACING) MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
 4. COLOR: BLACK

SCALE: 3/4" = 1'-0"



- NOTES:
1. NORRIS DESIGN HAS PROVIDED THIS DETAIL FOR REFERENCE PURPOSE, THIS DETAIL HAS NOT BEEN ENGINEERED.
 2. THIS DETAIL SHOWS DESIGN INTENT OF MATERIALS, FINISHES, AND APPROXIMATE DIMENSIONS ONLY.
 3. REINFORCEMENT AND FOOTINGS TO BE PROVIDED BY STRUCTURAL AND/OR BY FENCE CONTRACTOR BASED ON RECOMMENDATIONS IN GEOTECH REPORT, MEETING ALL APPLICABLE CODES.
 4. CONTRACTOR TO INSTALL FENCE AND GATES AS RECOMMENDED BY MANUFACTURER
 5. NORRIS DESIGN IS NOT RESPONSIBLE FOR STRUCTURAL DESIGN AND CALCULATIONS.
 6. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT / STRUCTURAL / CIVIL / CITY FOR APPROVAL.
 7. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL.
 8. ALL MESH SHALL BE GALVANIZED STEEL.
 9. ALL GATES SHALL BE LOCKING OR HAVE THE CAPABILITY TO BE LOCKED.

SCALE: 1/2" = 1'-0"



4

5

NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

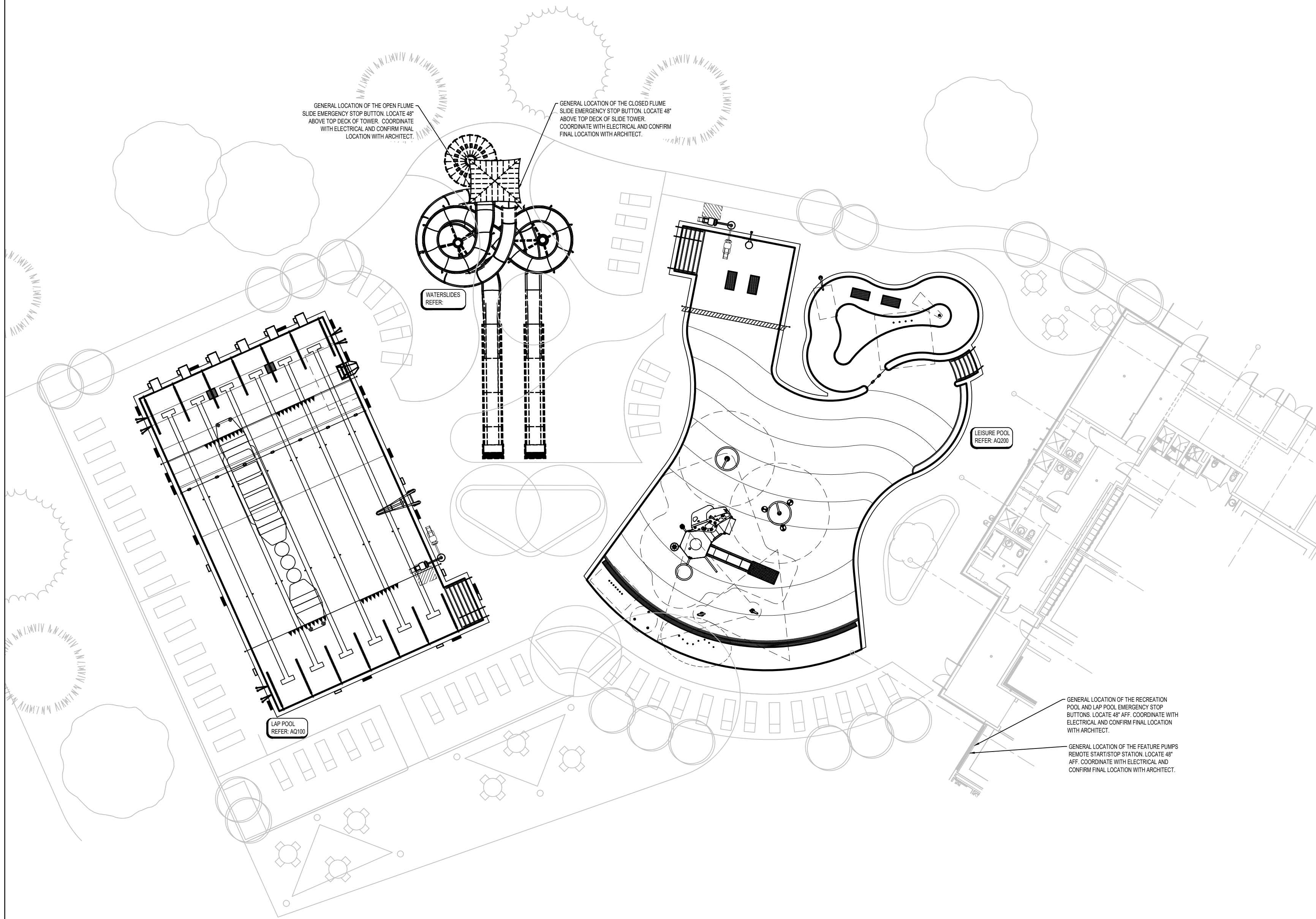
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: VARIES
ISSUE DATE: 02/16/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE DETAILS

SHEET #:

LP-502



1
AQ00.0
POOL REFERENCE PLAN
1/16" = 1'-0"

DRAWING INDEX	
SHEET	DESCRIPTION
AQ000	POOL REFERENCE PLAN
AQ100	LAP POOL PLAN & SECTIONS
AQ101	LAP POOL DETAILS
AQ102	LAP POOL DETAILS
AQ200	RECREATION POOL PLAN & SECTIONS
AQ201	RECREATION POOL DETAILS
AQ202	RECREATION POOL DETAILS
AQ500	POOL MECHANICAL NOTES & SCHEDULES
AQ501	POOL MECHANICAL ROOM PLAN & SECTIONS
AQ502	POOL MECHANICAL DETAILS
AQ503	POOL MECHANICAL DETAILS
AQ504	POOL MECHANICAL DETAILS
AQ505	POOL MECHANICAL DETAILS
AQ600	LAP POOL SYSTEMS SCHEMATIC
AQ601	RECREATION POOL SYSTEMS SCHEMATIC

POOL ALTERNATES	
ALTERNATE #1: WATERSLIDE TOWER BASE BID: PROVIDE AND INSTALL CAPPED PIPING TO/FROM THE PLANNED WATERSLIDE TOWER LOCATION, AND PROVIDE SPACE FOR FUTURE WATERSLIDE PUMPS. DO NOT PROVIDE WATERSLIDES. ALTERNATE: PROVIDE AND INSTALL PIPING, PUMPS, WATERSLIDE TOWER, RUNOUT PAD, AND RUNOUT SUMPS INDICATED ON THE DRAWINGS.	
ALTERNATE #2: PLAY STRUCTURE BASE BID: DO NOT PROVIDE PLAY STRUCTURE AT THE RECREATION POOL. ALTERNATE: PROVIDE AND INSTALL PLAY STRUCTURE AND ALL ASSOCIATED ANCHORS, FOOTINGS, AND PIPING INDICATED ON THE DRAWINGS.	
ALTERNATE #3: ZIPLINE FEATURE BASE BID: DO NOT PROVIDE ZIPLINE FEATURE AT THE LAP POOL. ALTERNATE: PROVIDE AND INSTALL ZIPLINE FEATURE AT THE LAP POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED ON THE DRAWINGS.	
ALTERNATE #4: CLIMBING WALL FEATURE BASE BID: DO NOT PROVIDE CLIMBING WALL FEATURE AT THE LAP POOL. ALTERNATE: PROVIDE AND INSTALL CLIMBING WALL FEATURE AT THE LAP POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED ON THE DRAWINGS.	
ALTERNATE #5: FLOATING OBSTACLE COURSE BASE BID: DO NOT PROVIDE FLOATING OBSTACLE COURSE AT THE LAP POOL. ALTERNATE: PROVIDE WIBIT FEATURE AT THE LAP POOL AS INDICATED ON THE DRAWINGS.	
ALTERNATE #6: SPRAY FEATURES BASE BID: DO NOT PROVIDE SPRAY FEATURES AT THE RECREATION POOL. PROVIDE AND INSTALL ROUGH-IN PIPING AND MODULAR ANCHORAGE FOR FUTURE FEATURES. ALTERNATE: PROVIDE AND INSTALL SPRAY FEATURES AND ALL ASSOCIATED ANCHORS, FOOTINGS, AND PIPING INDICATED ON THE DRAWINGS.	
ALTERNATE #7: WATER BASKETBALL AND VOLLEYBALL BASE BID: PROVIDE AND INSTALL ANCHORS FOR FUTURE WATER BASKETBALL AND VOLLEYBALL FEATURES. ALTERNATE: PROVIDE AND INSTALL WATER BASKETBALL AND WATER VOLLEYBALL FEATURES AS INDICATED ON THE DRAWINGS.	
ALTERNATE #8: WINTER POOL SAFETY COVERS BASE BID: DO NOT PROVIDE WINTER SAFETY COVERS FOR THE POOLS. ALTERNATE: PROVIDE AND INSTALL WINTER SAFETY COVERS AND ALL ASSOCIATED ANCHORS.	
ALTERNATE #9: THERMAL POOL COVERS BASE BID: DO NOT PROVIDE THERMAL POOL COVERS FOR THE POOLS. ALTERNATE: PROVIDE THERMAL POOL COVERS AND DECK REELS FOR THE POOLS.	

DESIGN DATA			
	UNITS	LAP POOL	RECREATION POOL
LENGTH	FT.	75'	VARIES
WIDTH	FT.	45'	VARIES
WATER SURFACE AREA	SQ. FT.	3,425	4,177
PERIMETER	FT.	250	362
VOLUME	GALLONS	130,825	65,432
RECIRCULATION SYSTEM			
POOL TURNOVER RATE	HOURS	3.96	1.62
RECIRCULATION RATE	GPM	550	675
SEWER CAPACITY	GPM	REFER TO PLUMBING	REFER TO PLUMBING
BATHER LOAD	PERSONS	142	417
MAXIMUM FACILITY BATHER LOAD	PERSONS	559	

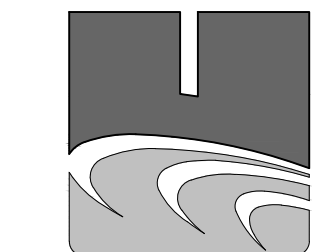
GENERAL POOL NOTES	
1.	◆ DENOTES WATER DEPTH FROM WATER LEVEL.
2.	POOL FINISH MUST BE A PROPRIETARY AGGREGATE PLASTER WITH A 6" CERAMIC TILE BAND AND A CAST-IN-PLACE CONCRETE COPING WITH TILE DECK MARKINGS.
3.	ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS MUST HAVE A SLIP RESISTANT FINISH.
4.	TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
5.	REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS.
6.	THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVERED WITH A MAXIMUM 6" RADIUS.
7.	DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MUST NOT EXCEED 25'-0" APART FROM EACH OTHER, AND MUST BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
8.	ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
9.	SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
10.	REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
11.	ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
12.	REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
13.	ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
14.	NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
15.	COMPETITION POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S).
16.	REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
17.	ALL METALLIC PORTIONS OF PLAY FEATURE MUST BE EPOXY COATED STAINLESS STEEL.
18.	ALL POOL REINFORCING STEEL METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM MUST BE BONDED PER NEC 680. REFER.
19.	IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO THE AMERICAN RED CROSS OR A SIMILAR APPLICABLE LIFE GUARD AGENCY ARE CONDUCTED PRIOR TO OPERATING THE FACILITY AND REGULARLY ACCORDING TO AGENCY GUIDELINES. ZONE EVALUATIONS ARE NECESSARY TO CONFIRM APPROPRIATE LIFE GUARD PLACEMENT AND ZONE COVERAGE.
20.	CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
21.	THE POOL(S), SPA(S), SURGE TANK(S), AND GUTTER SYSTEM(S) MUST BE WATER TESTED IN ACCORDANCE TO THE HYDROSTATIC TIGHTNESS TESTING OF AN OPEN CONCRETE CONTAINMENT STRUCTURE AS REQUIRED BY THE AMERICAN CONCRETE INSTITUTE (ACI) 350.1-10 SECTION 2. REFER TO SPECIFICATIONS. REFER.

CONTRACTOR SUPPLIED POOL CHEMICALS	
DESCRIPTION	AMOUNT
CALCIUM HYPOCHLORITE	FULL FEEDER(S) + 300 LBS
MURIATIC ACID	FULL CARBOY(S) + 30 GALLONS
CO2	FULL BULK TANK(S) - 750 LBS
SODIUM BICARBONATE	200 LBS
CALCIUM CARBONATE	100 LBS
SODIUM THIOSULFATE	50 LBS

DEFERRED APPROVAL NOTICE	
INSTALLATION OF THE WATERSLIDE AND ASSOCIATED FEATURE FOOTINGS MUST NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS BEARING THE SEAL, SIGNATURE, AND DATE OF A LICENSED PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY OR THE DEPARTMENT HAVING JURISDICTION. CONTRACTOR MUST BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.	



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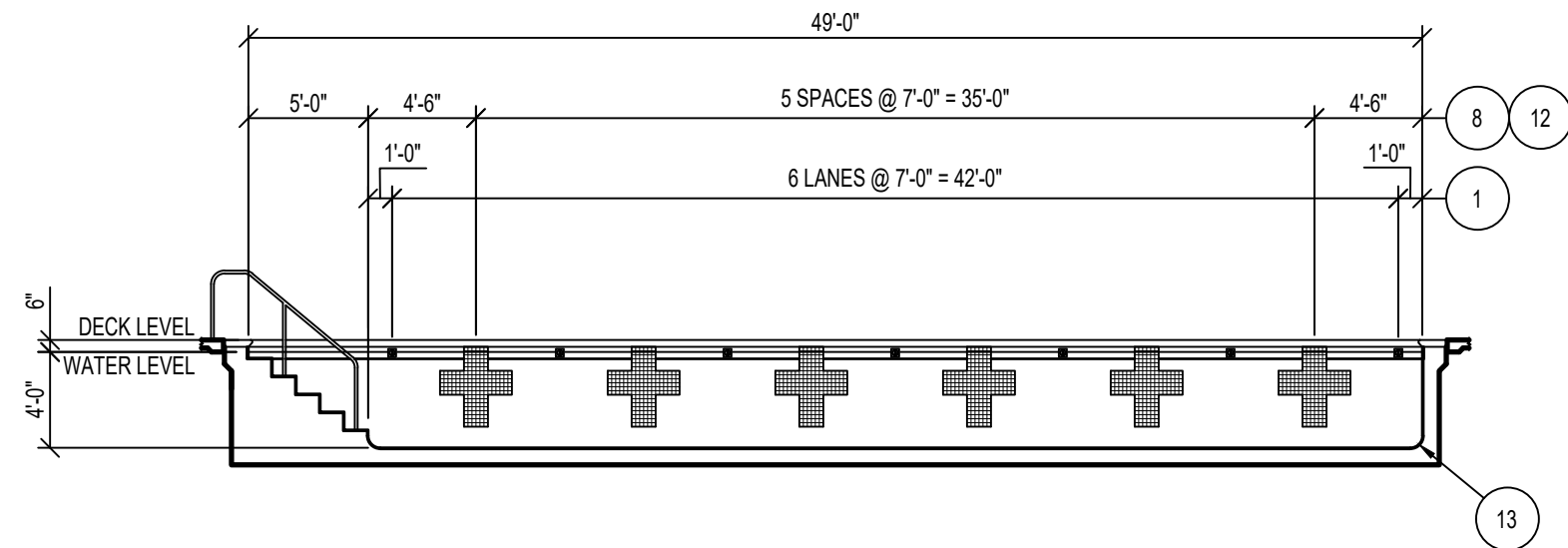
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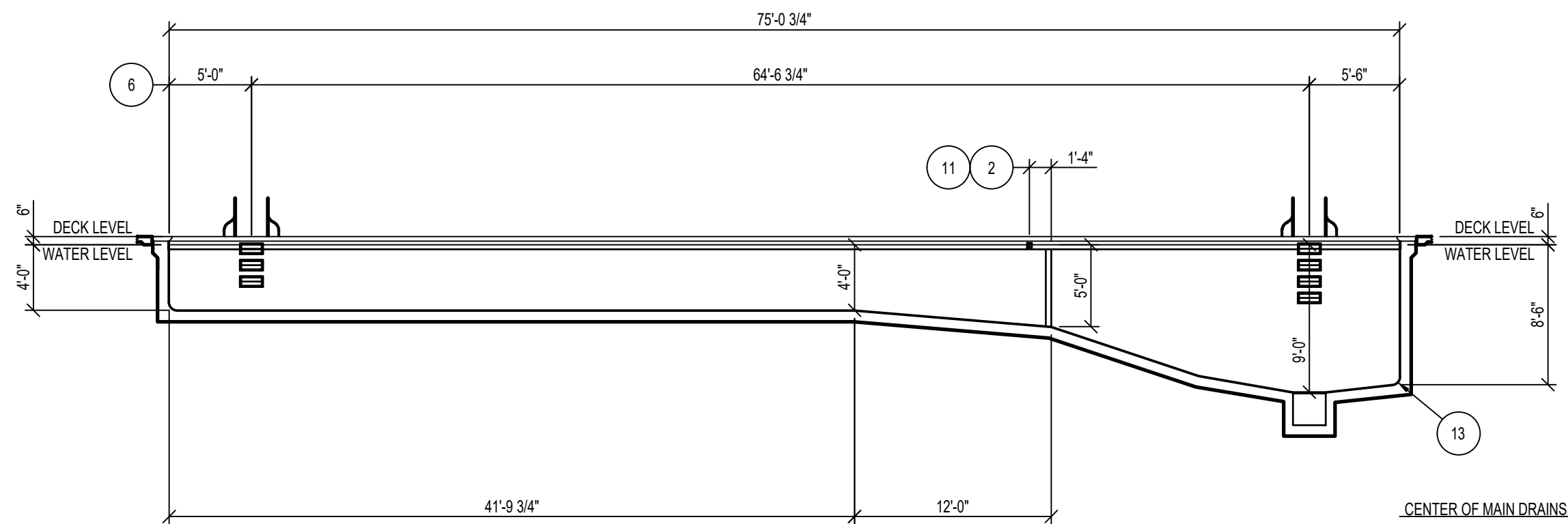
SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL REFERENCE PLAN

SHEET #:

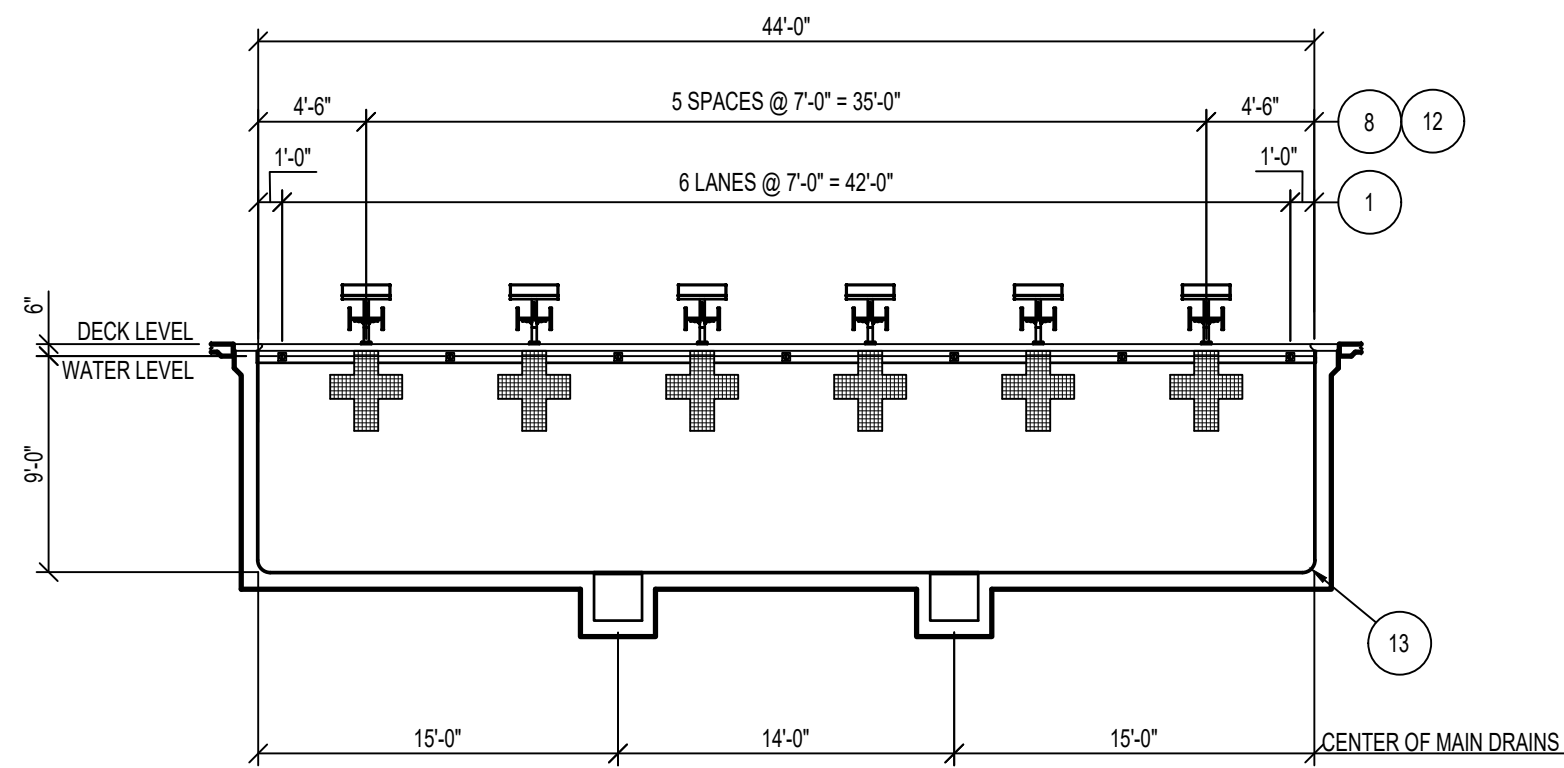
AQ000



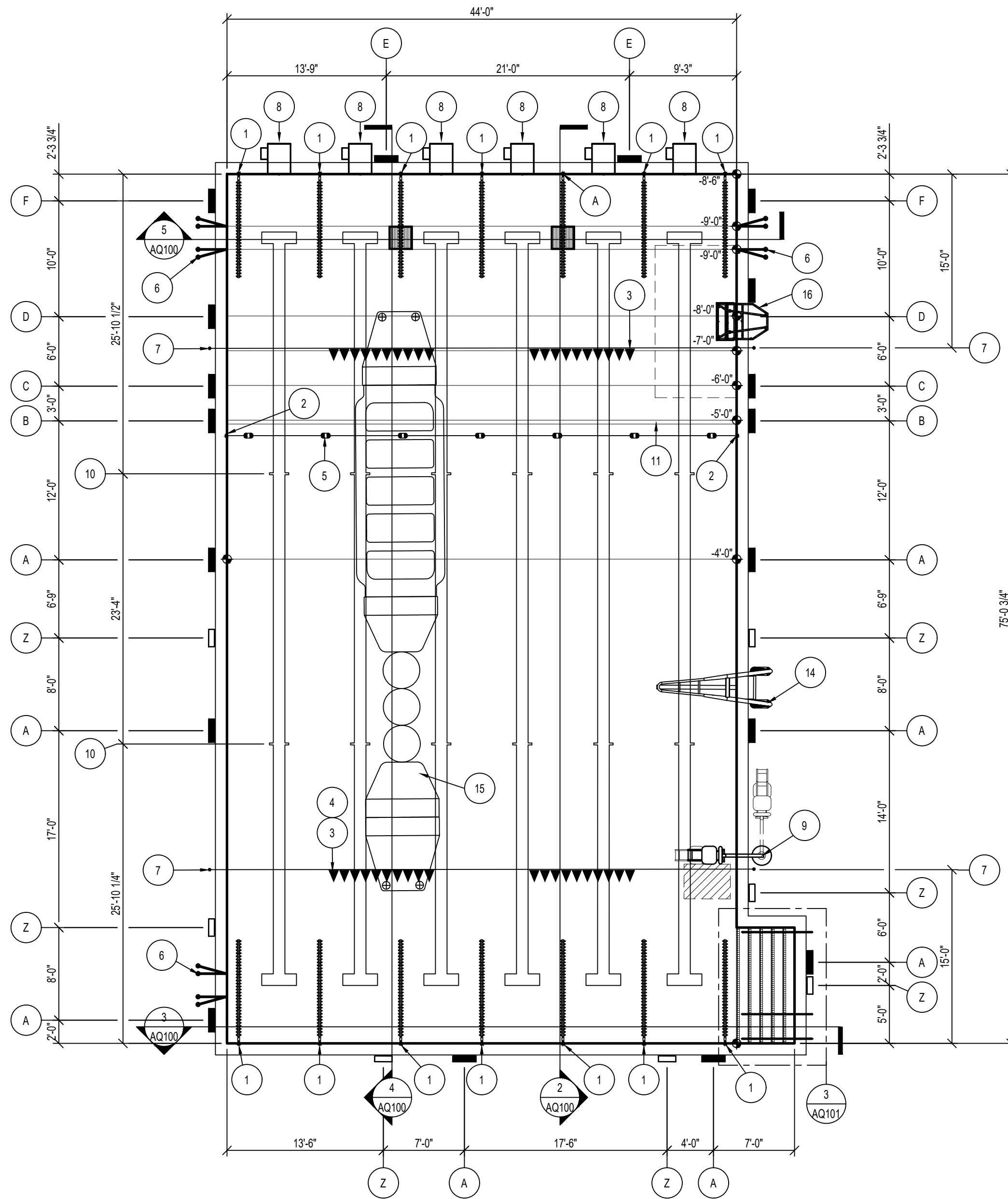
3 LAP POOL SECTION
AQ100
1/8" = 1'-0"



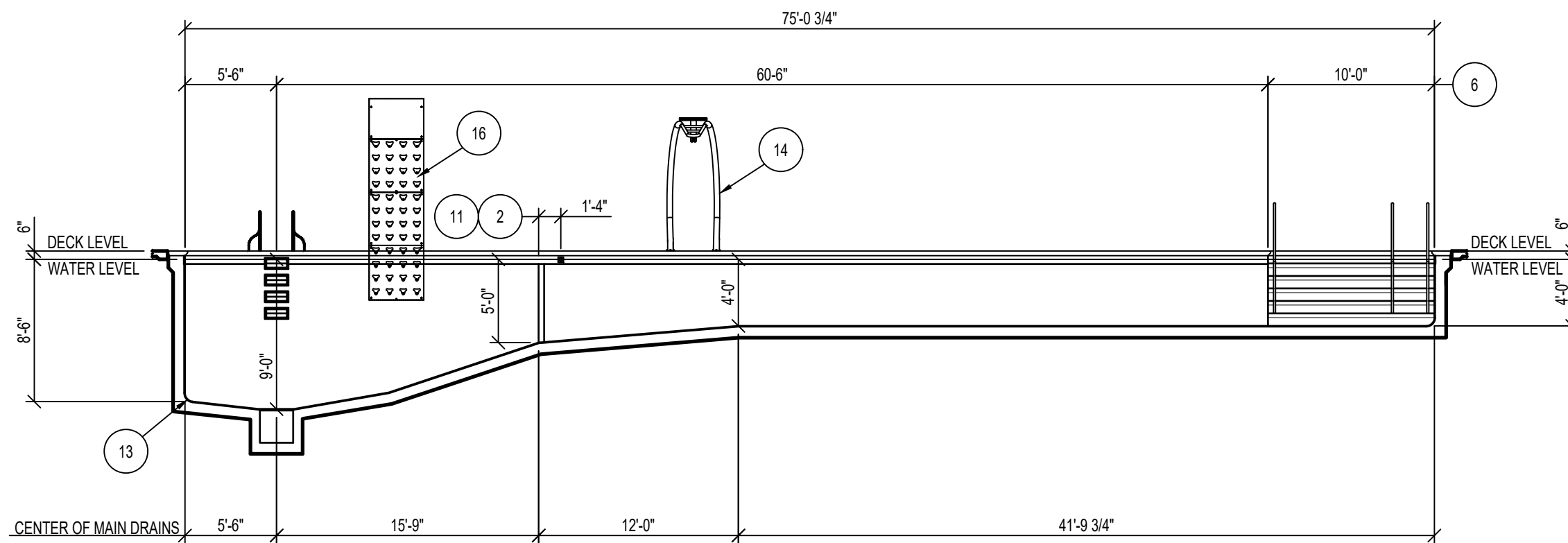
4 LAP POOL SECTION
AQ100
1/8" = 1'-0"



5 LAP POOL SECTION
AQ100
1/8" = 1'-0"



1 LAP POOL PLAN
AQ100
1/8" = 1'-0"



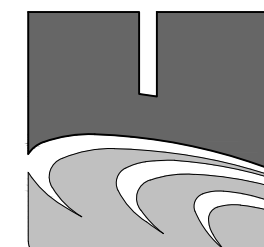
2 LAP POOL SECTION
AQ100
1/8" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE	
ID	SIGNAGE
A	4 FT 0 IN
B	5 FT 0 IN
C	6 FT 0 IN
D	8 FT 0 IN
E	8 FT 6 IN
F	9 FT 0 IN
Z	NO DIVING
NOTE: REFER: XIAQX.X FOR DETAIL.	

EQUIPMENT SCHEDULE	
ID	ITEM
1	LANE ROPE CUP ANCHOR REFER:
2	SAFETY ROPE CUP ANCHOR REFER:
3	BACKSTROKE PENNANT
4	FALSE START ROPE ASSEMBLY
5	SAFETY ROPE
6	GRAB RAILS & RECESSED STEPS REFER:
7	STANCHION POST & ANCHOR REFER:
8	DECK MOUNTED STARTING PLATFORM & ANCHOR REFER:
9	POOL LIFT & ANCHOR REFER:
10	RESURFACING MARKER REFER:
11	4" CONTRASTING TILE BAND COLOR BY ARCHITECT
12	WALL TARGET REFER:
13	POOL COVE REFER:
14	AQUA ZIPN REFER:
15	WIBIT FEATURE REFER:
16	CLIMBING WALL FEATURE REFER:



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NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LAP POOL PLAN & SECTIONS

SHEET #:

AQ100



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NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD

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PROJECT #: 23079
TITLE: LAP POOL DETAILS

SHEET #

AQ101



10
AQ101



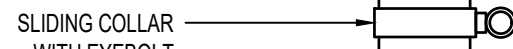
AQ10



(7)
AQ10



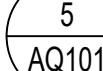
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AQ10



9
AQ10



AQ10



5
AQ101



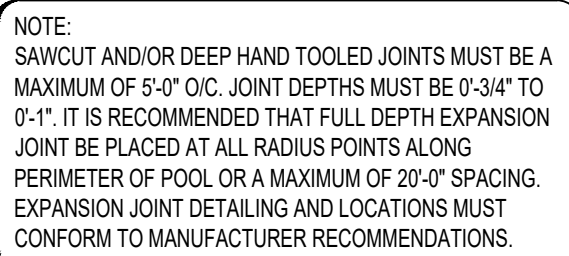
DEPTH MARKER PLAN



DEPTH MARKER ELEVATION



6
AQ10



AQ10

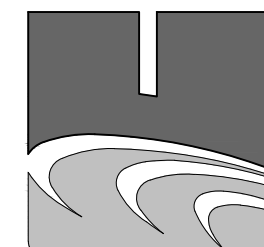


(2)
AQ10

3
AQ10



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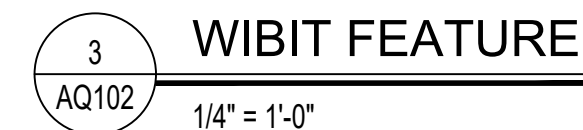
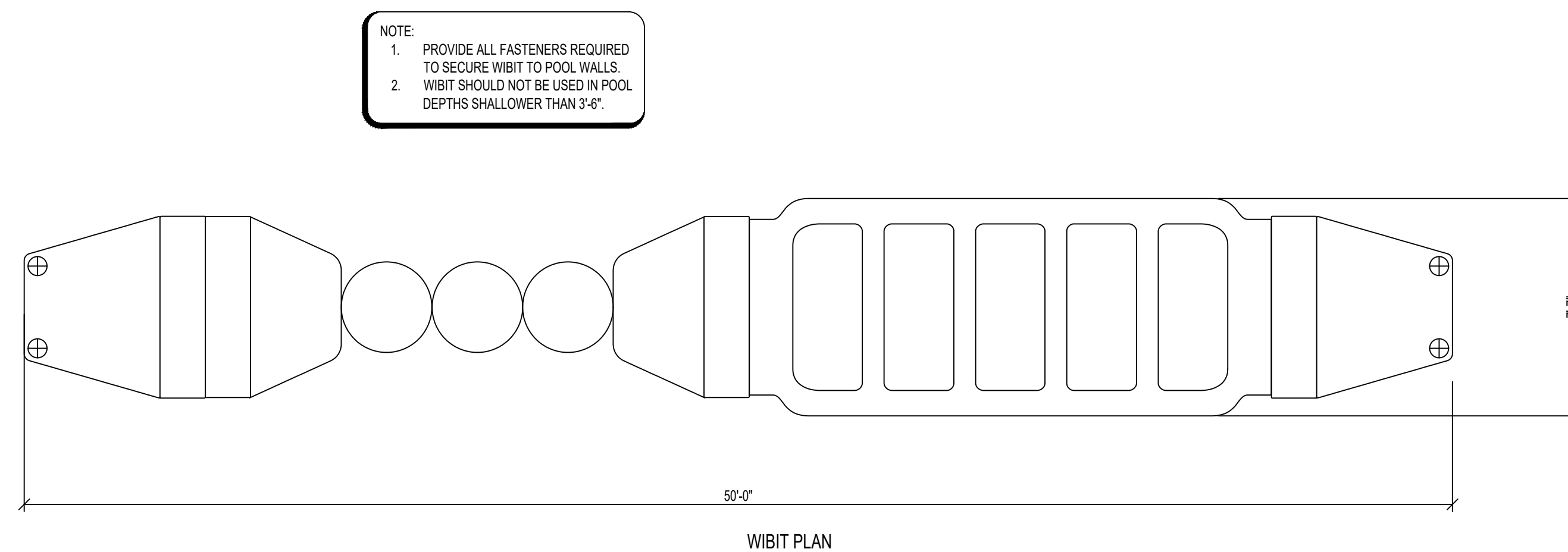
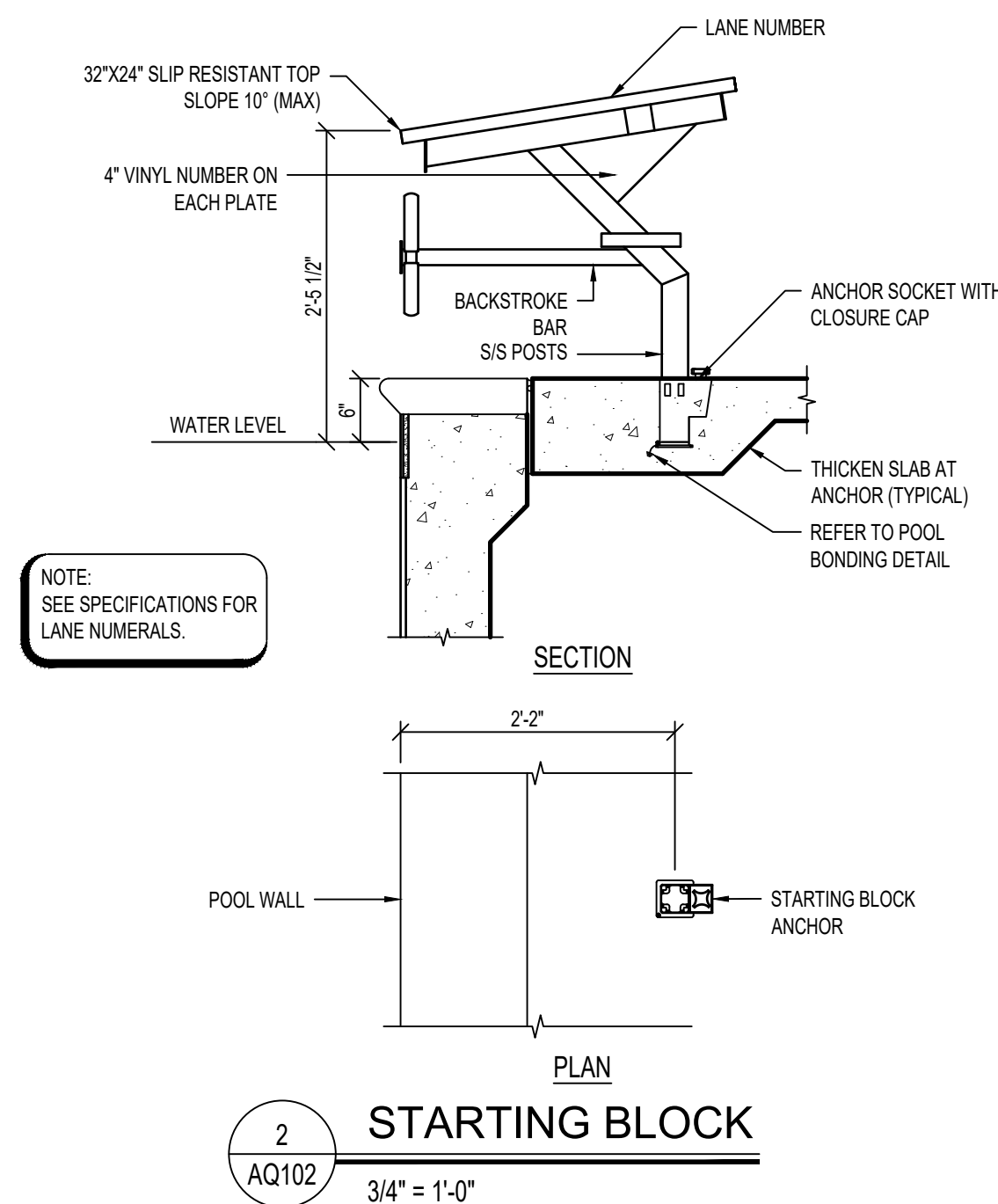
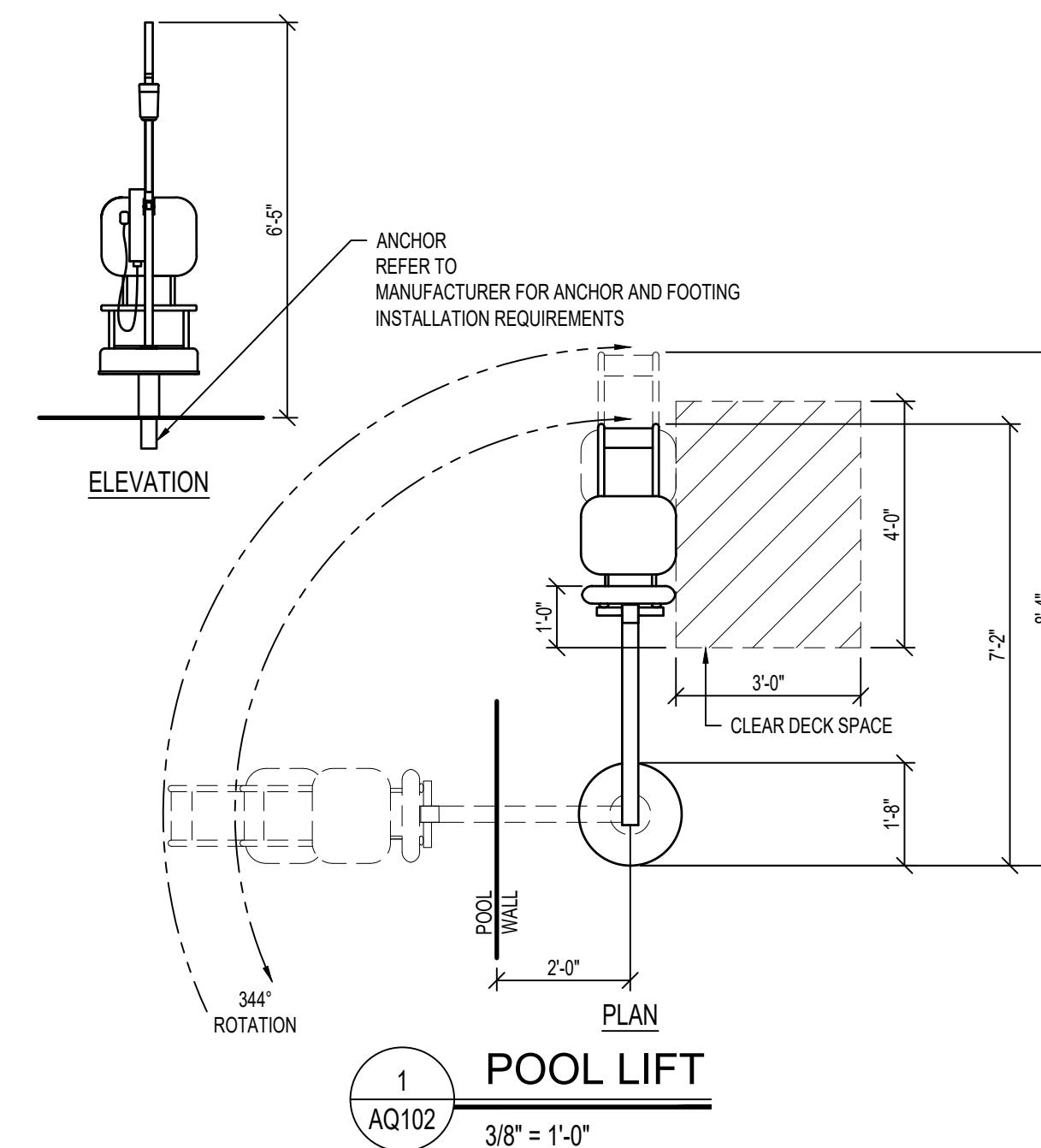
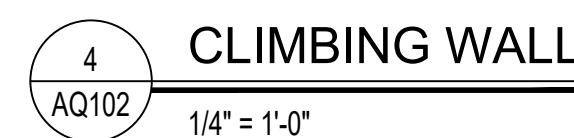
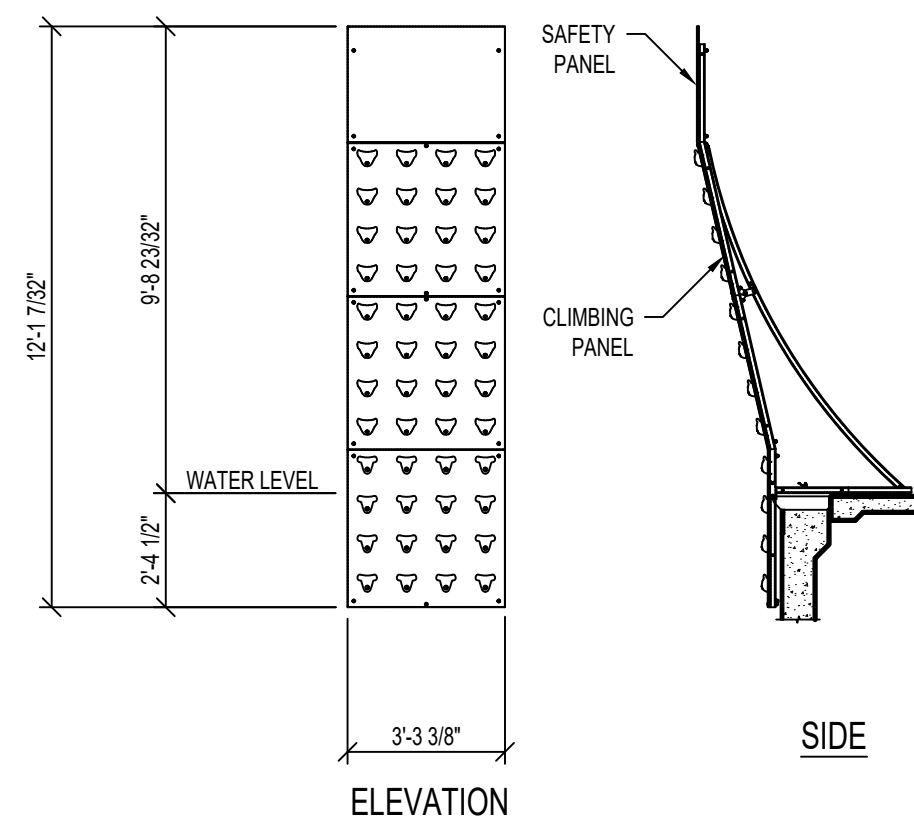
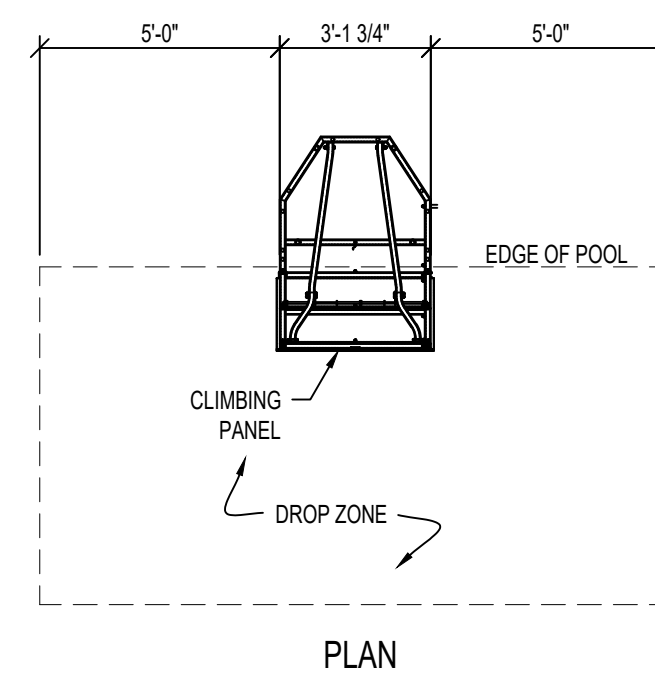
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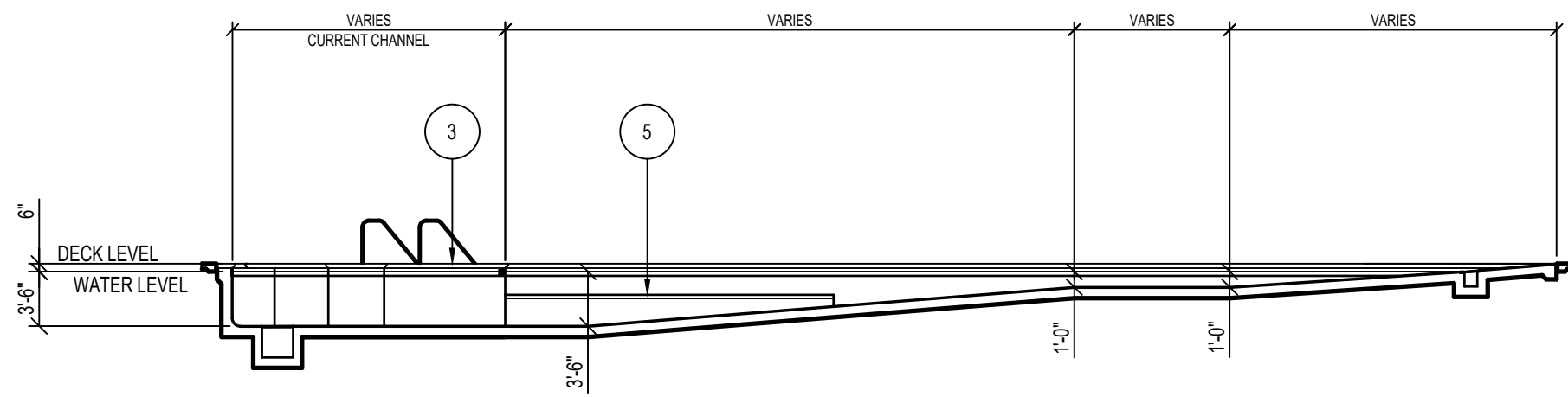
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SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LAP POOL DETAILS

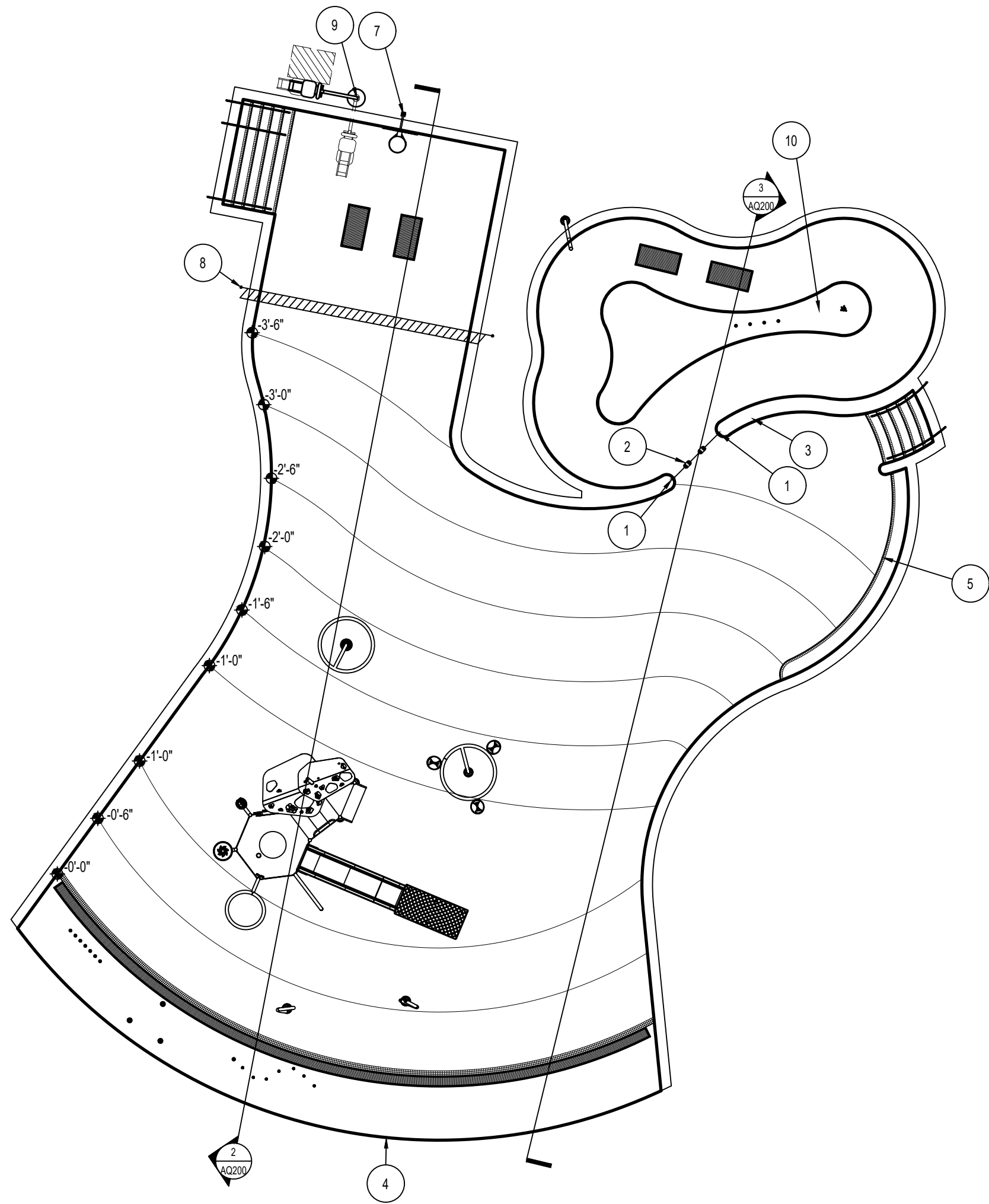
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AQ102

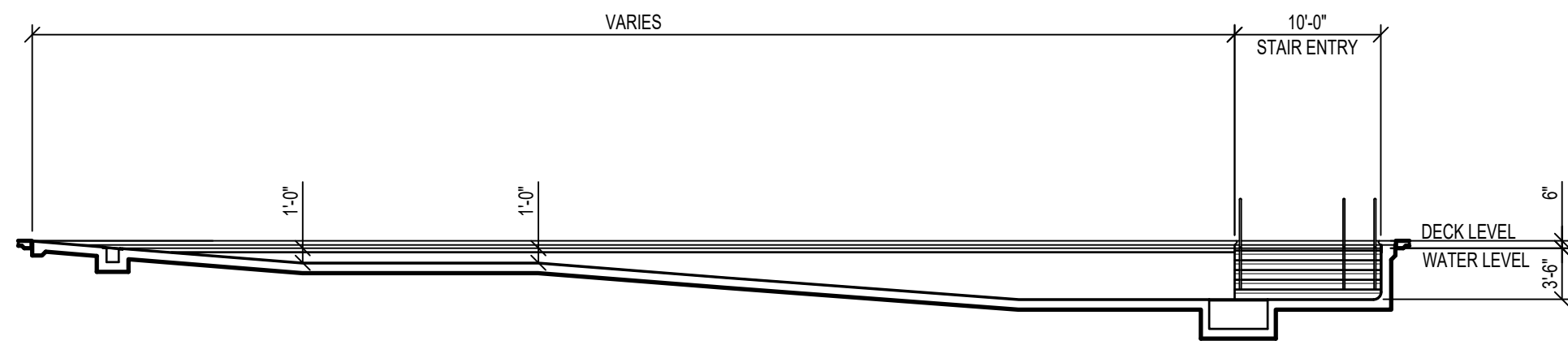




3
AQ100
LEISURE POOL SECTION
3/32" = 1'-0"



1
AQ200
LEISURE POOL PLAN
3/32" = 1'-0"



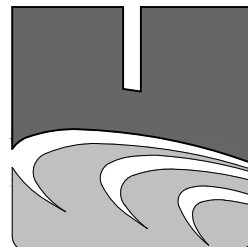
2
AQ100
LEISURE POOL SECTION
3/32" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE	
ID	SIGNAGE
A	0 FT 6 IN
B	1 FT 0 IN
C	2 FT 0 IN
D	3 FT 0 IN
E	3 FT 6 IN
Z	NO DIVING ☒
NOTE: REFER: X/AQX.X FOR DETAIL.	

EQUIPMENT SCHEDULE	
ID	ITEM
1	SAFETY ROPE CUP ANCHOR REFER:
2	SAFETY ROPE
3	WING WALL REFER:
4	ZERO ENTRY REFER:
5	UNDERWATER BENCH REFER:
6	POOL COVE REFER:
7	WATER BASKETBALL GOAL REFER:
8	WATER VOLLEYBALL STANCHION POST & ANCHOR REFER:
9	POOL LIFT AND ANCHOR REFER:
10	CURRENT CHANNEL ISLAND REFER:



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NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL PLAN & SECTIONS

SHEET #:

AQ200



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Mountain Recreation Eagle Pool

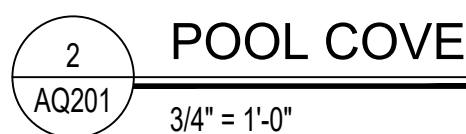
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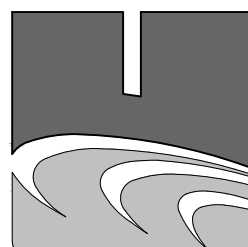
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SCALE: AS NOTED
 ISSUE DATE: JANUARY 22, 2024
 PROJECT #: 23079
 TITLE: LEISURE POOL DETAILS

SHEET #

AQ201





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CONSTRUCTION

Mountain Recreation Eagle Pool

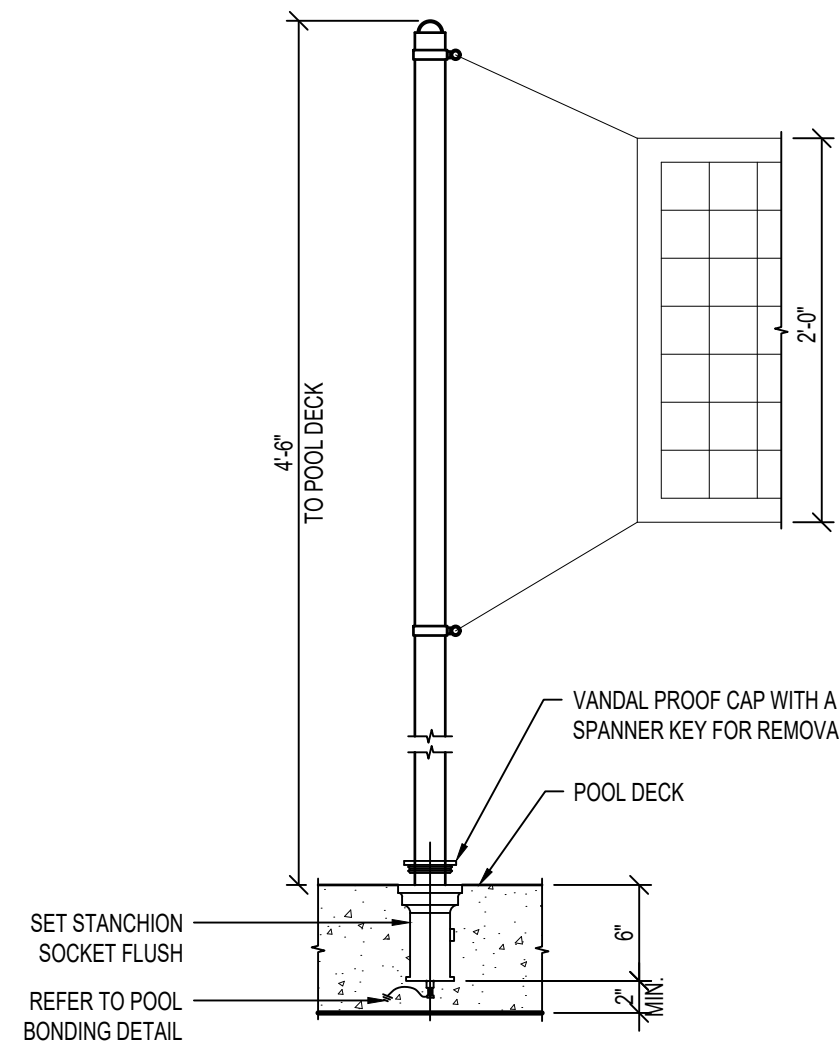
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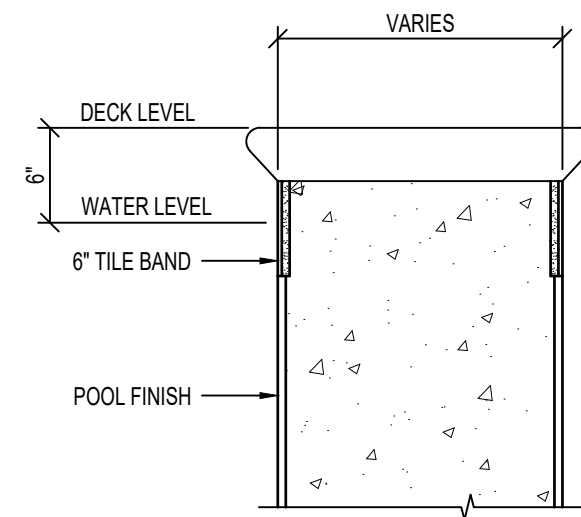
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ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL DETAILS

SHEET #

AQ202



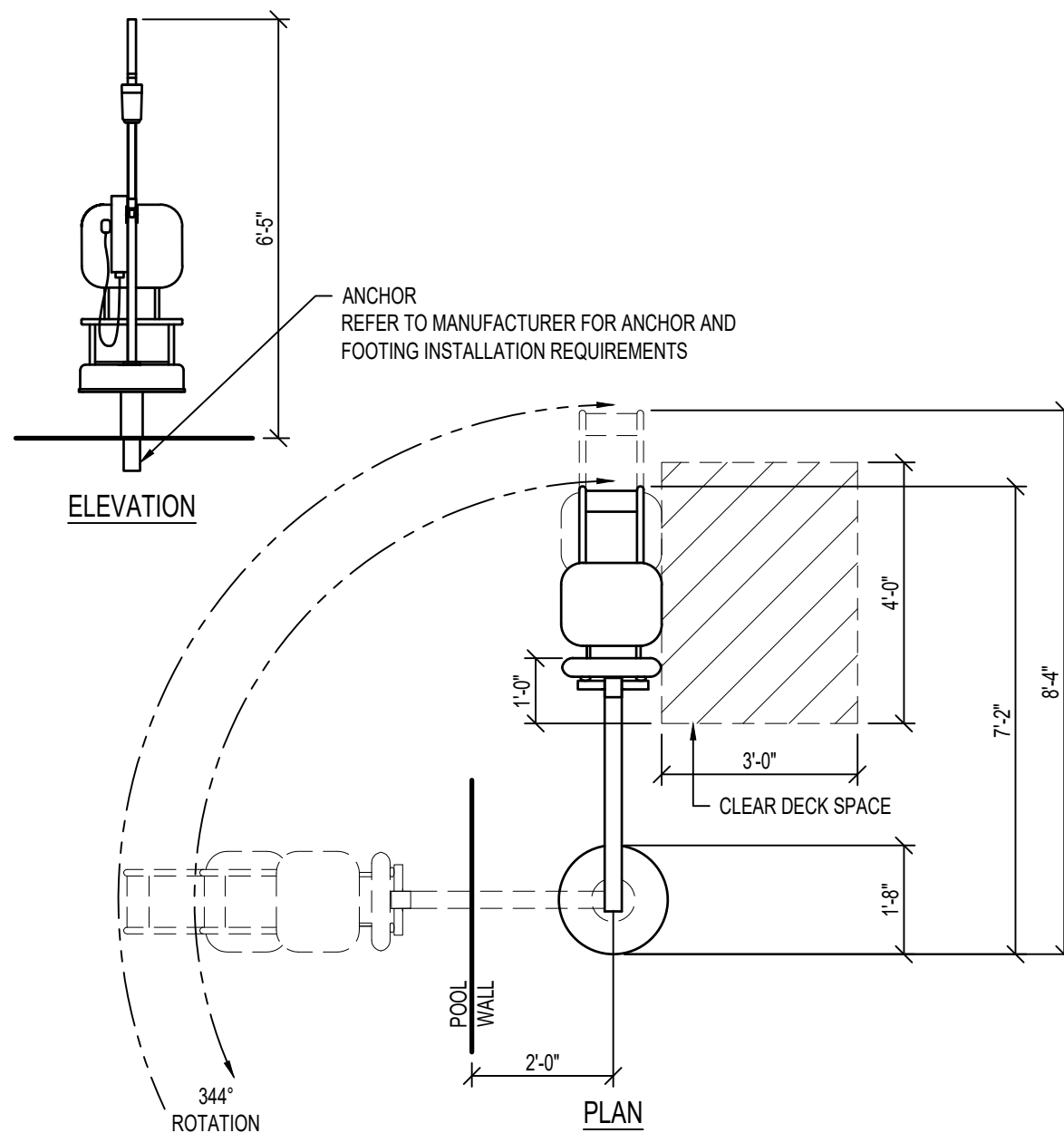
1 WATER VOLLEYBALL STANCHION POST & ANCHOR
AQ202 1 1/2" = 1'-0"



2
AQ202

CURRENT CHANNEL ISLAND

1" = 1'-0"



3 POOL LIFT
AQ202 3/8" = 1'-0"

PUMP SCHEDULE											
ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR & LINT		NOTES
									MAKE	SIZE	
PP1	LAP POOL RECIRCULATION PUMP REFER:	GRISWOLD 850 SERIES	6X5-14T	6"X5"	550	85	25	5.91	MERMADE	8"X6"	1,2,3,4, 6,9
PP2	OPEN FLUME WATERSLIDE PUMP REFER:	GRISWOLD 850 SERIES	8X6-10	8"X6"	1,000	55	20	8.43	MERMADE	10"X8"	1,2,3,4, 5,7,8,9
PP3	CLOSED FLUME WATERSLIDE PUMP REFER:	GRISWOLD 850 SERIES	5X4-10	5"X4"	500	55	10	6.10	MERMADE	8"X5"	1,2,3,4, 5,7,8,9
PP4	RECREATION POOL CURRENT CHANNEL PROPULSION PUMP REFER:	GRISWOLD 850 SERIES	8X6-10	8"X6"	775	40	15	8.02	MERMADE	10"X8"	1,2,3,4, 7,8,9
PP5	RECREATION POOL RECIRCULATION PUMP REFER:	GRISWOLD 850 SERIES	6X5-14T	6"X5"	675	85	25	6.01	MERMADE	8"X6"	1,2,3,4, 6,9
PP6	RECREATION SPRAY FEATURE PUMP REFER:	GRISWOLD 850 SERIES	4X3-10	4"X3"	225	65	7.5	6.85	MERMADE	6"X4"	1,2,3,4, 7,8,9
NOTE: 1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. 2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS. 3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI. 4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM MOTOR. 5. PROVIDE WITH CHECK VALVE. 6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS 7. PROVIDE VARIABLE FREQUENCY DRIVE. 8. PROVIDE REMOTE PUMP START. 9. PROVIDE EMERGENCY STOP.											

CHEMICAL FEED SCHEDULE						
ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	HP	FLOW
CF1	LAP POOL CHLORINATION BOOSTER PUMP REFER:	PULSAR	PRECISION	4	1	189 LBS/DAY
CF2	LAP POOL ACID FEED PUMP REFER:	STENNER	45M3	3	FRAC	22 GAL/DAY
CF3	LAP POOL CO2 FEED REFER:	BECS	BECSYSC02	N/A	N/A	20-200 SCFH
CF4	RECREATION POOL CHLORINATION BOOSTER PUMP REFER:	PULSAR	PRECISION	4	1	189 LBS/DAY
CF5	RECREATION POOL ACID FEED PUMP REFER:	STENNER	45M3	3	FRAC	22 GAL/DAY
CF6	RECREATION POOL CO2 FEED REFER:	BECS	BECSYSC02	N/A	N/A	20-200 SCFH
NOTE: 1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. 2. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED. 3. INTERLOCK WITH POOL RECIRCULATION PUMP.						

FILL SCHEDULE							
ID	POOL	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)
L1	LAP	91	10"	10"X6"	8"	6"	24
L2	RECREATION	91	10"	10"X6"	8"	6"	12
NOTE: REFER: XXXXX							

ELECTRONIC FLOCCULATION SYSTEM SCHEDULE							
ID	POOL	MANUFACTURER	MODEL	NOMINAL PIPE SIZE	INPUT VOLTAGE	POWER CABLE LENGTH	SIGNAL CABLE LENGTH
C1	LAP	CLEAR-FLOW	CF-800	6"	100-240 VAC	15 FT	33 FT
C2	RECREATION	CLEAR-FLOW	CF-800	8"	100-240 VAC	15 FT	33 FT

UV TREATMENT SYSTEMS SCHEDULE						
ID	POOL	MODEL NUMBER	US EPA 3-LOG AND CALCULATED 40MJ/CM2 (GPM)	LAMPS	AMPS (A)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	RECREATION	SAG-480-APVC-CR	387	4	4.8	120 V (1Ø)-10A
NOTE: 1. THE BASIS OF DESIGN MANUFACTURER IS CHLORLING. 2. INTERLOCK UV SYSTEM WITH FEATURE PUMP. 3. REFER: XXXXX						

GENERAL POOL MECHANICAL ROOM NOTES

- EQUIPMENT ROOM FLOOR AND PUMP PIT FLOOR MUST SLOPE 1/4" TO 1/2" PER FOOT TO FLOOR DRAINS OR SLUMP PIT. REFER TO PLUMBING.
- PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
- VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
- THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
- REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
- REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.

PIPING AND VALVING

- MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
- PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
- LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
- ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.
- HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
- REFER TO DETAILS X-X ON DRAWING AQX-X FOR INSTALLATION OF PIPE SUPPORTS.
- ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER:
- ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- ALL VALVES MUST BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
- PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR. CHAIN MUST EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
- ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.

CHEMICAL TREATMENT

- CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ--.
- INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S) AND HEATER(S).
- PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER.
- SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
- WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
- SAMPLE FEED PIPING TOIFROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
- PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
- INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER:

ELECTRICAL

- GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
- POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
- CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.
- PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.

FILTER SCHEDULE

ID	POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ. FT.)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
F1	LAP	PADDOCK	HZF-42-48	2	HRS	12.0	11.5	45.8	48.0	15.0	360
F2	RECREATION	PADDOCK	HZF-42-60	2	HRS	12.0	11.3	56.3	60.0	15.0	450

- NOTE:
- BACKWASH METHOD MUST BE MANUAL.
 - ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
 - FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
 - VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
 - THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH FUNNEL OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
 - FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
 - THE BACKWASH THROTTLING VALVE(S) HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED AND BALANCED.
 - PROVIDE 1" DIAMETER, SCHEDULE 80 PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
 - VESSEL MUST BE BACKWASHED AT 15.0 GPM/SF.

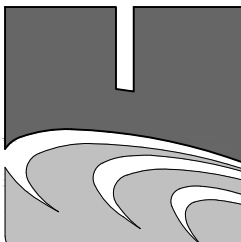
HEATER SCHEDULE

ID	POOL	MAKE	MODEL	QTY.	BOILER EFF (%)	TOTAL INPUT (MBH)	AIR INLET SIZE (INCHES)	PIPE SIZE (IN/OUT)	VENT SIZE (INCH)	ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER)			
H1	LAP	LOCHINVAR	CPN1442	1	85	1,440	12"	2.5"	12"	V 120 120	PH 1 1	HZ 60 60	AMP 30A 20A
H2	RECREATION	LOCHINVAR	CPN1262	2	85	2,520	12"	2.5"	12"	V 120 120	PH 1 1	HZ 60 60	AMP 30A 20A

- NOTE:
- THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR. ALTERNATE MANUFACTURER: RAYPACK OR APPROVED EQUAL.
 - HEATERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
 - REFER: XXXXX
 - EACH GAS-FIRED POOL HEATER SHALL BE EQUIPPED WITH AN EMERGENCY STOP SWITCH OR BUTTON LOCATED AT THE ENTRANCE TO THE POOL MECHANICAL ROOM. REFER TO ELECTRICAL.



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1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED

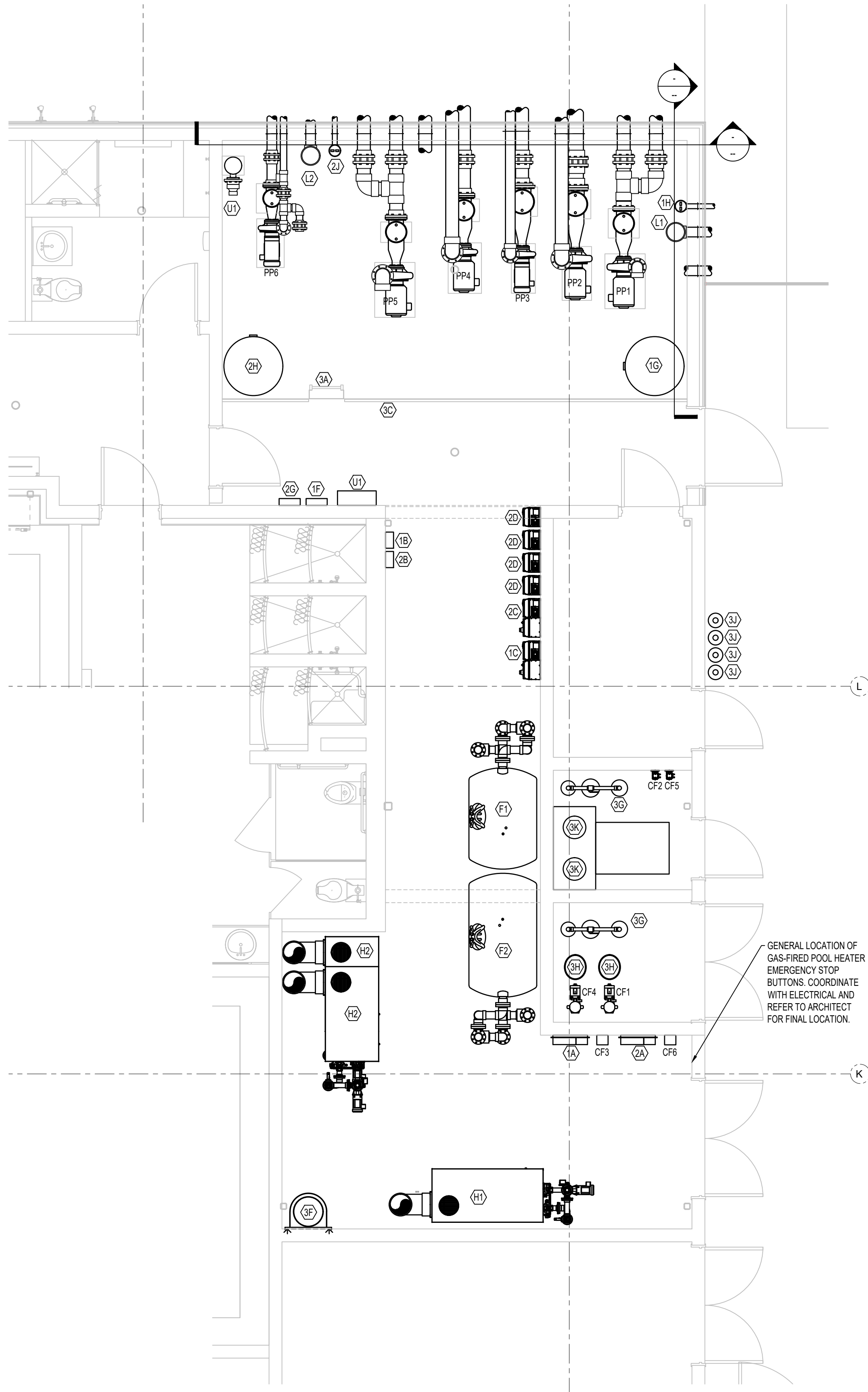
ISSUE DATE: JANUARY 22, 2024

PROJECT #: 23079

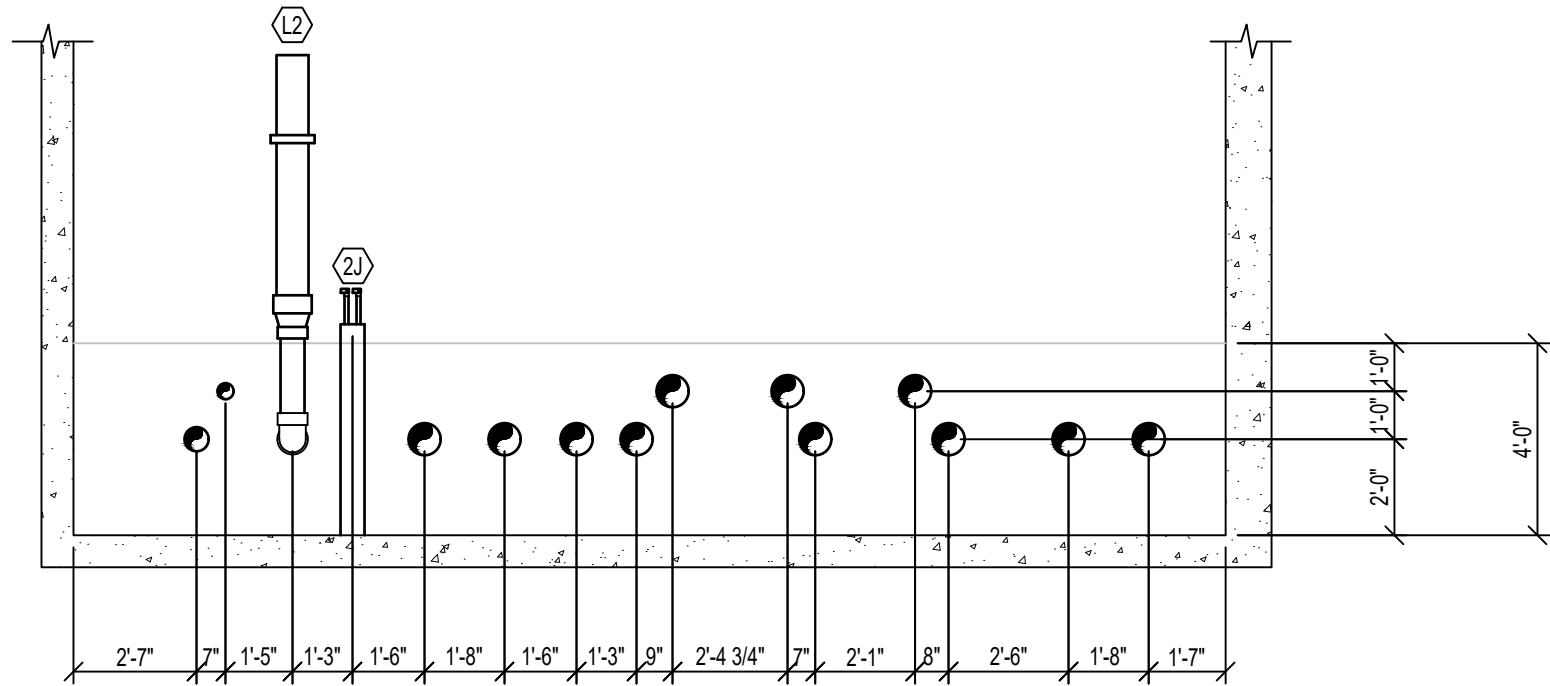
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NOTES & SCHEDULES

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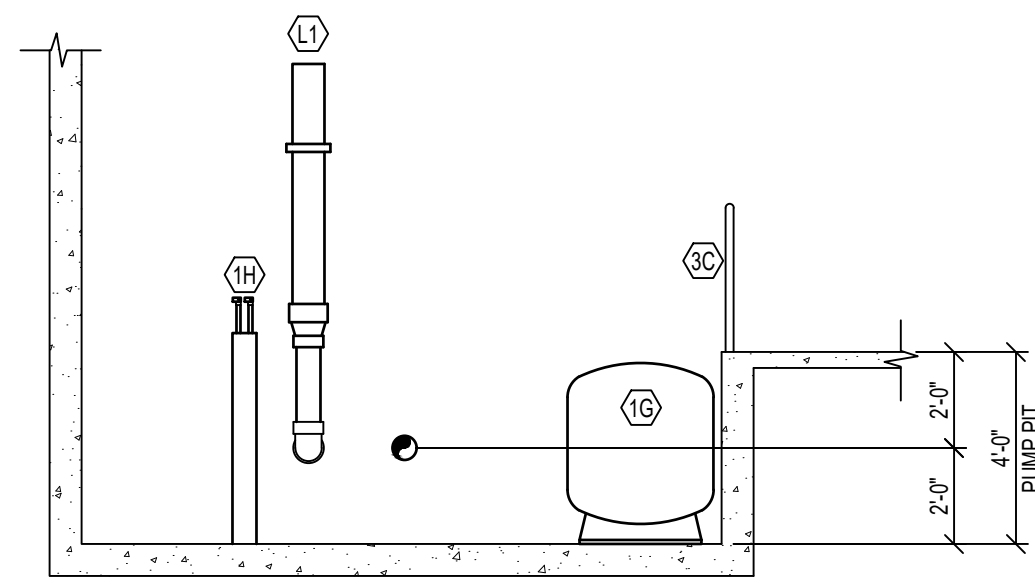
AQ500



1
AQ501
POOL MECHANICAL ROOM
1/4" = 1'-0"



2
AQ501
POOL MECHANICAL SECTION
1/4" = 1'-0"



3
AQ501
POOL MECHANICAL SECTION
1/4" = 1'-0"

PIPE SCHEDULE

ID	DESCRIPTION
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	

EQUIPMENT SCHEDULE

ID	ITEM
LAP POOL	
1A	CHEMICAL CONTROLLER REFER.
1B	WATER LEVEL CONTROLLER REFER.
1C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
1D	FLOW METER SENSOR REFER.
1E	IMPACT FLOW METER REFER.
1F	FLOW TECH REFER.
1G	SPHAGNUM MOSS REFER.
1H	WATER LEVEL CONTROLLER STATIC WELL REFER.
RECREATION POOL	
2A	CHEMICAL CONTROLLER REFER.
2B	WATER LEVEL CONTROLLER REFER.
2C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
2D	VARIABLE FREQUENCY DRIVE
2E	FLOW METER SENSOR REFER.
2F	IMPACT FLOW METER REFER.
2G	FLOW TECH REFER.
2H	SPHAGNUM MOSS REFER.
2I	WATER LEVEL CONTROLLER STATIC WELL REFER.
COMBINED	
3A	LADDER RUNGS
3B	SAFETY CHAIN
3C	REMOVABLE RAILING
3D	LINK SEAL (TYPICAL) REFER.
3E	HARD PIPE TO DRAIN
3F	BACKWASH FUNNEL REFER.
3G	EYE WASH STATION REFER TO PLUMBING
3H	CHLORINE SYSTEM REFER.
3I	CO ₂ CYLINDER REFER.
3K	ACID SYSTEM REFER.



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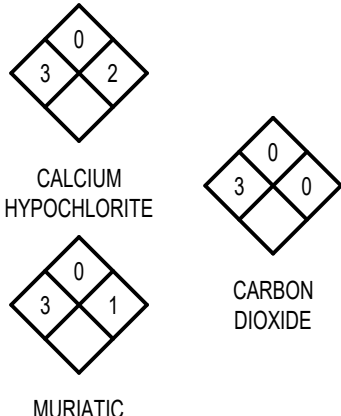
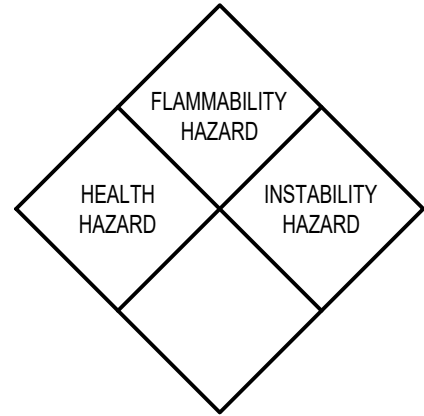
ISSUE DATE: JANUARY 22, 2024

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TITLE: POOL MECHANICAL ROOM
PLAN

SHEET #:

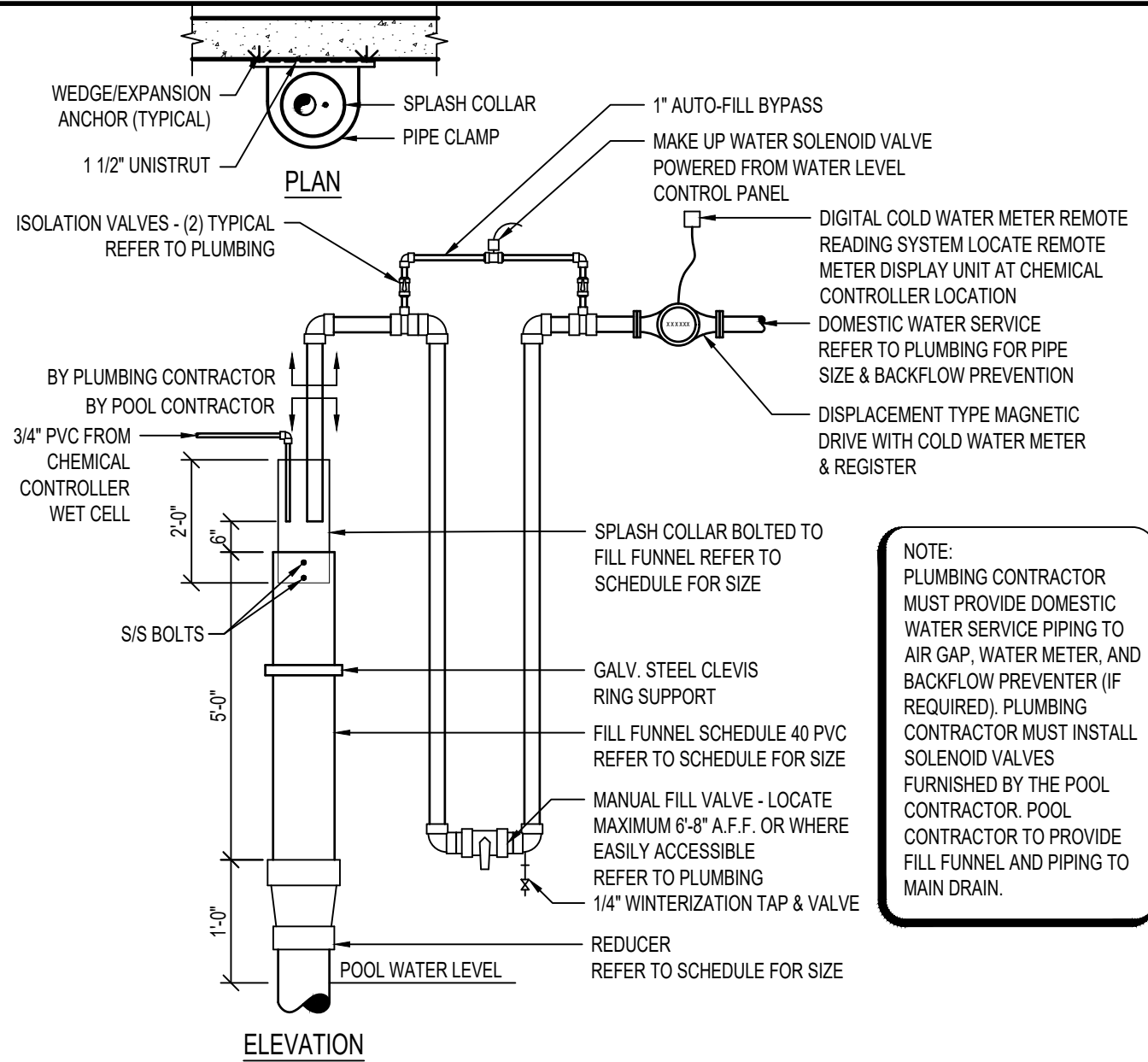
AQ501



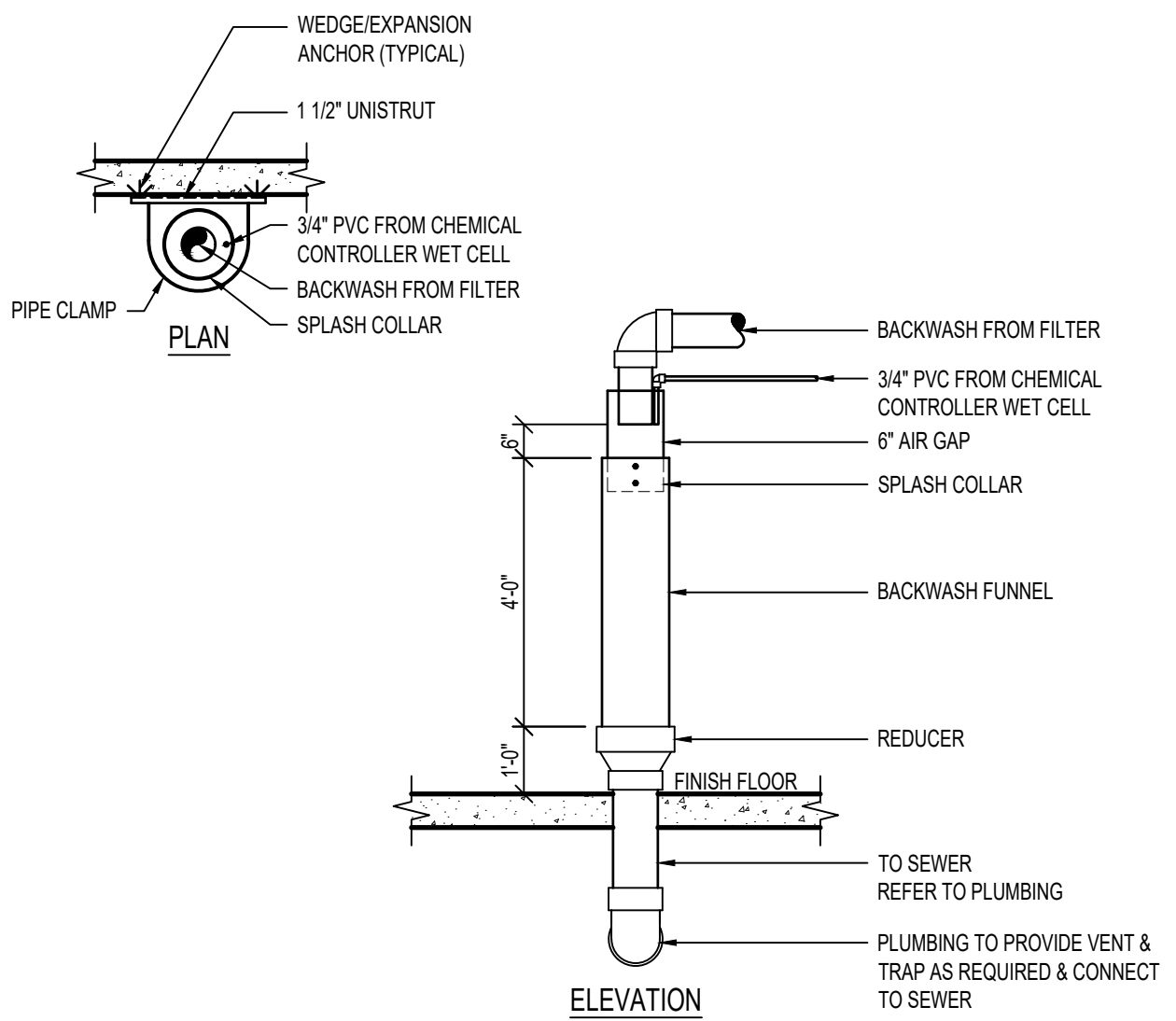
RATING EXPLANATION GUIDE			
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE, HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

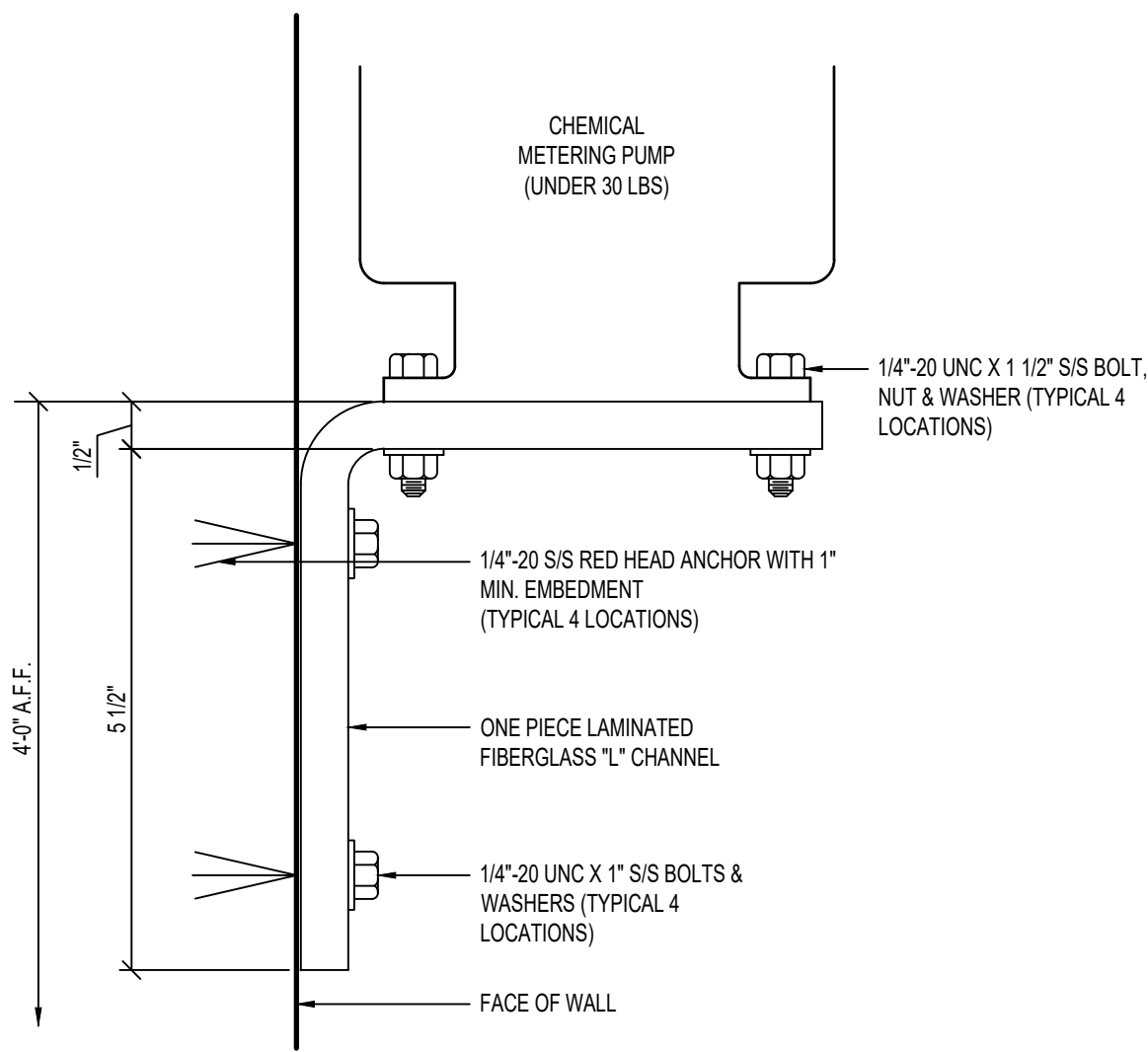
9 HAZARD SIGNAGE
AQ502 NTS



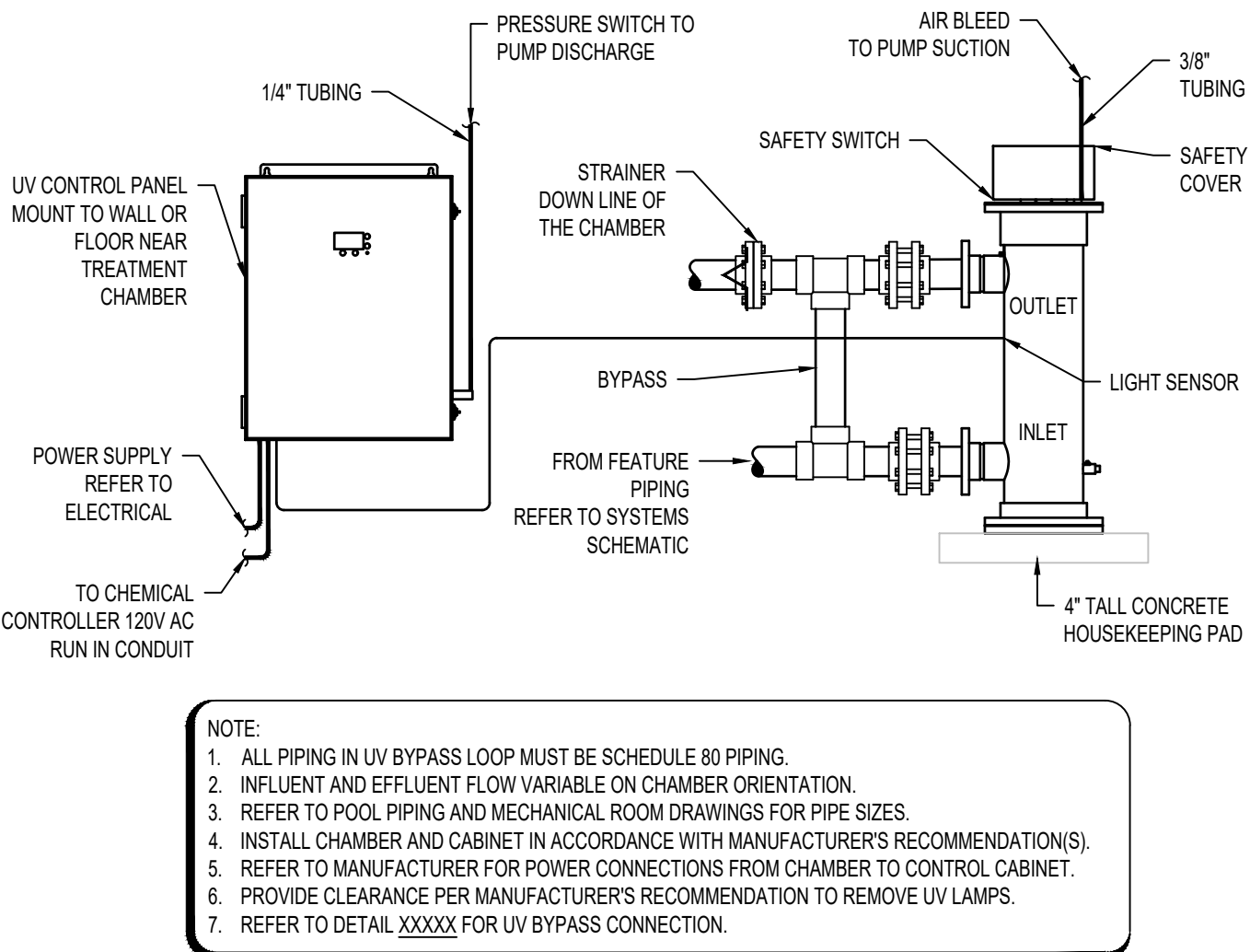
10 FILL FUNNEL
AQ502 3/8" = 1'-0"



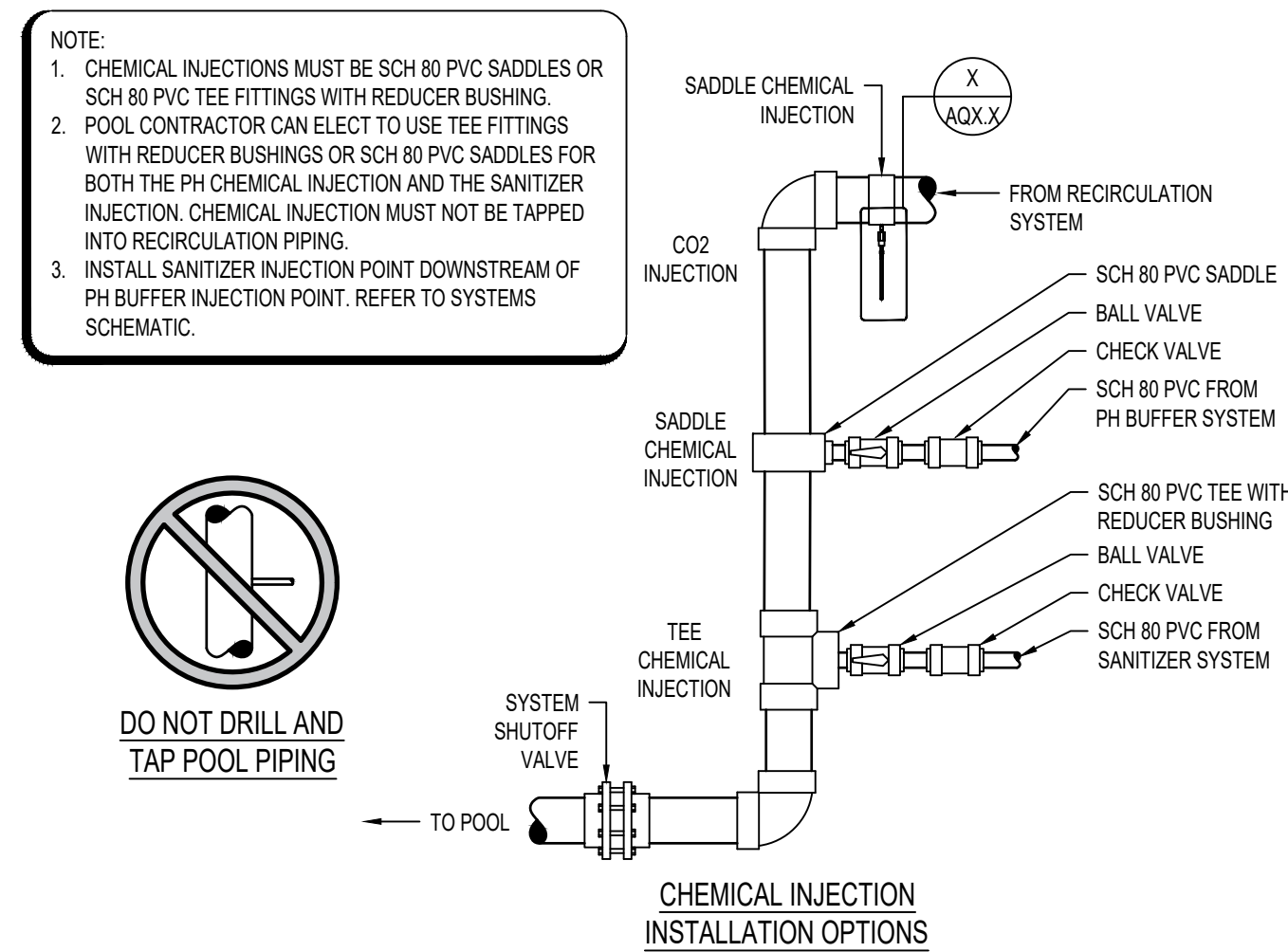
11 BACKWASH FUNNEL
AQ502 3/8" = 1'-0"



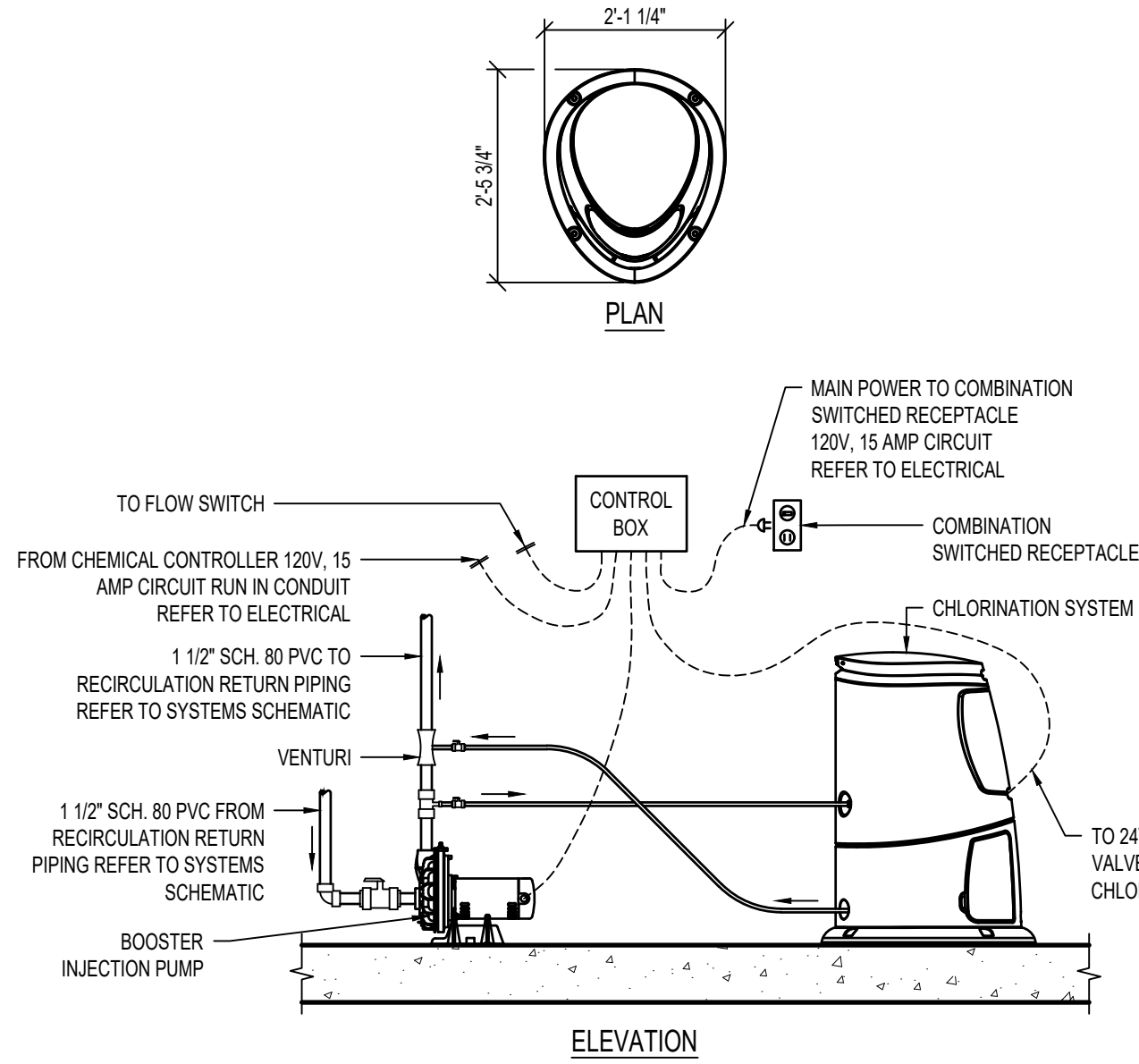
6 CHEMICAL PUMP SHELF
AQ502 6" = 1'-0"



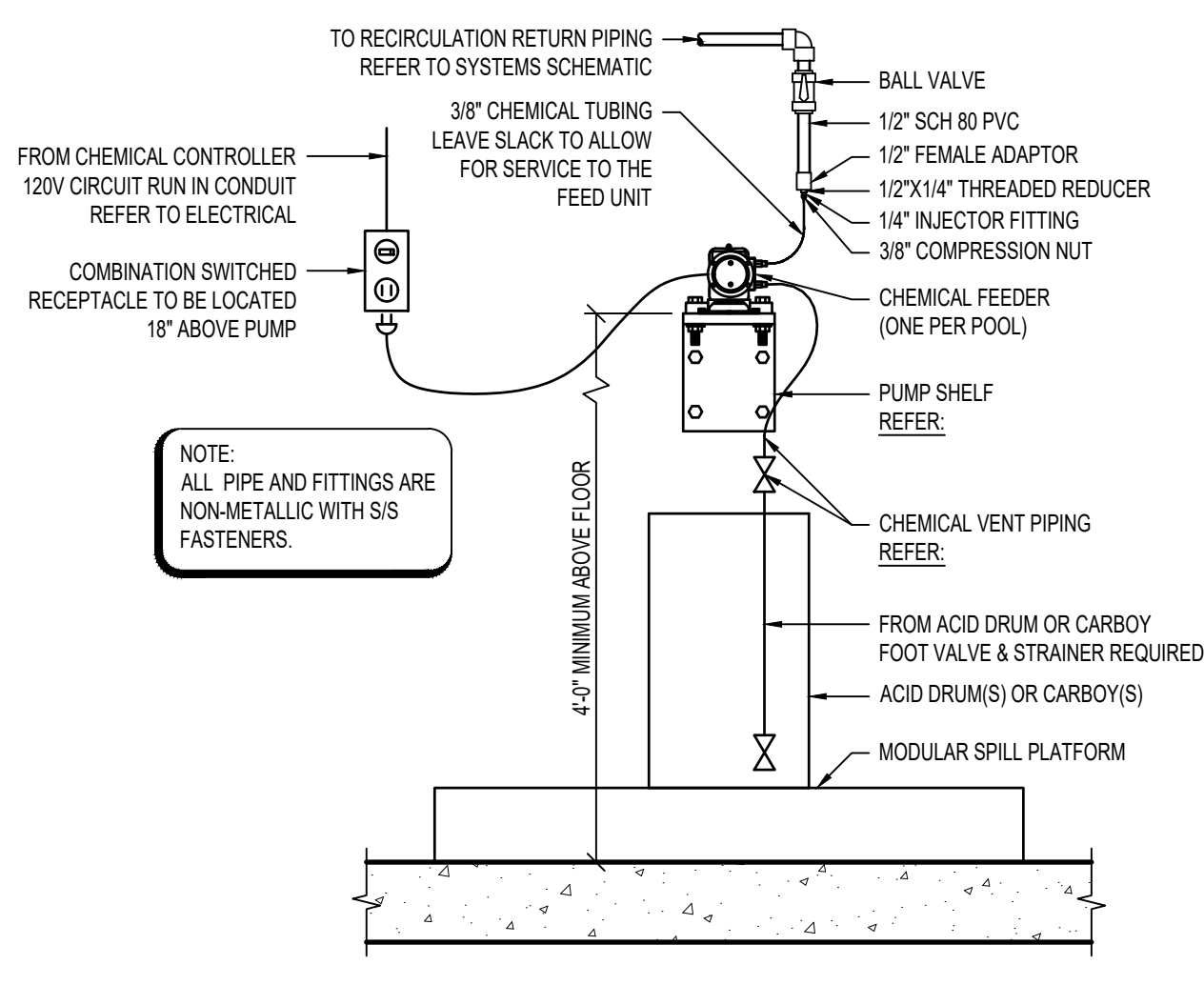
7 UV TREATMENT SYSTEM
AQ502 1/2" = 1'-0"



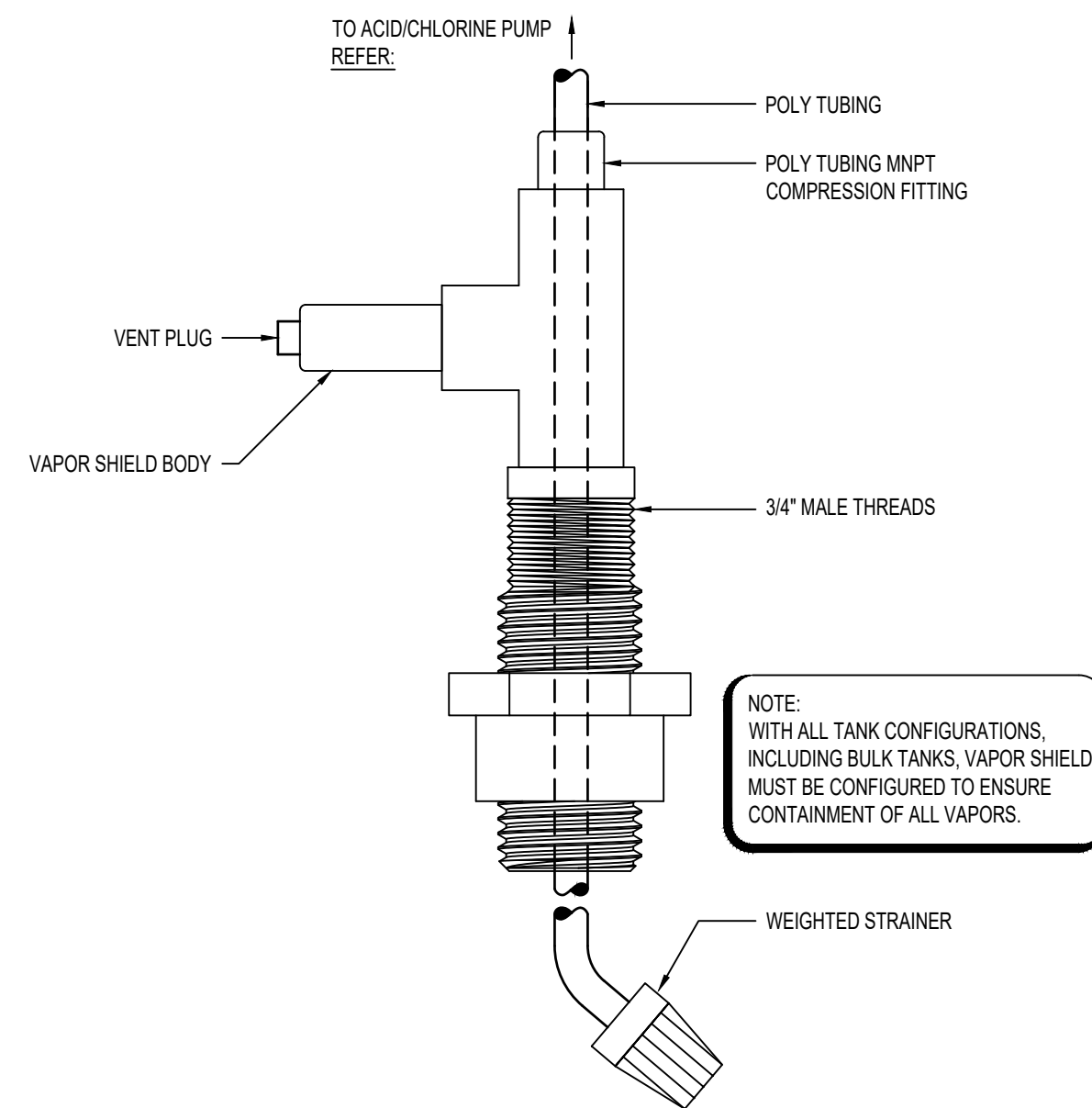
8 CHEMICAL INJECTION
AQ502 1/2" = 1'-0"



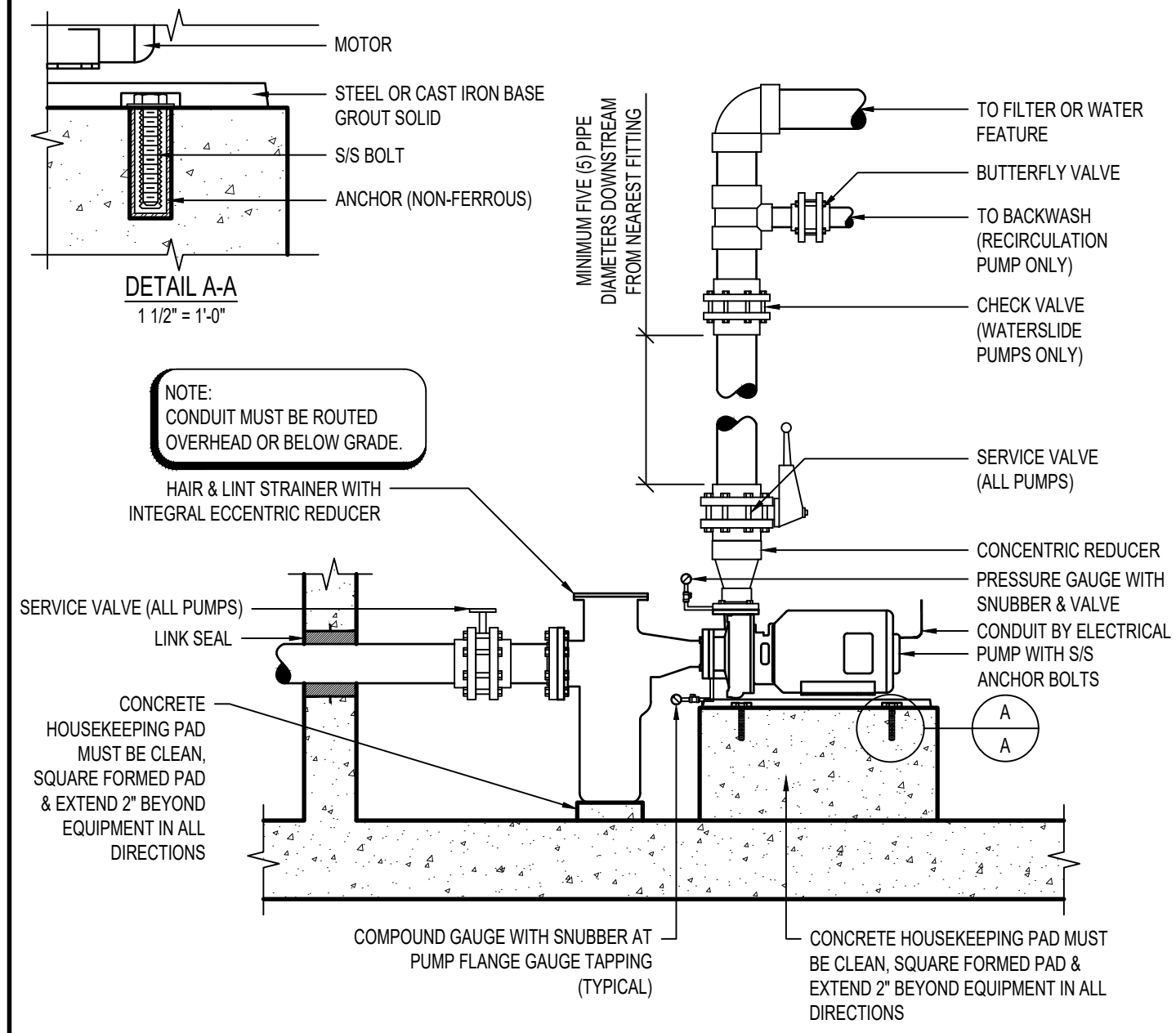
3 CHLORINATION SYSTEM
AQ502 1/2" = 1'-0"



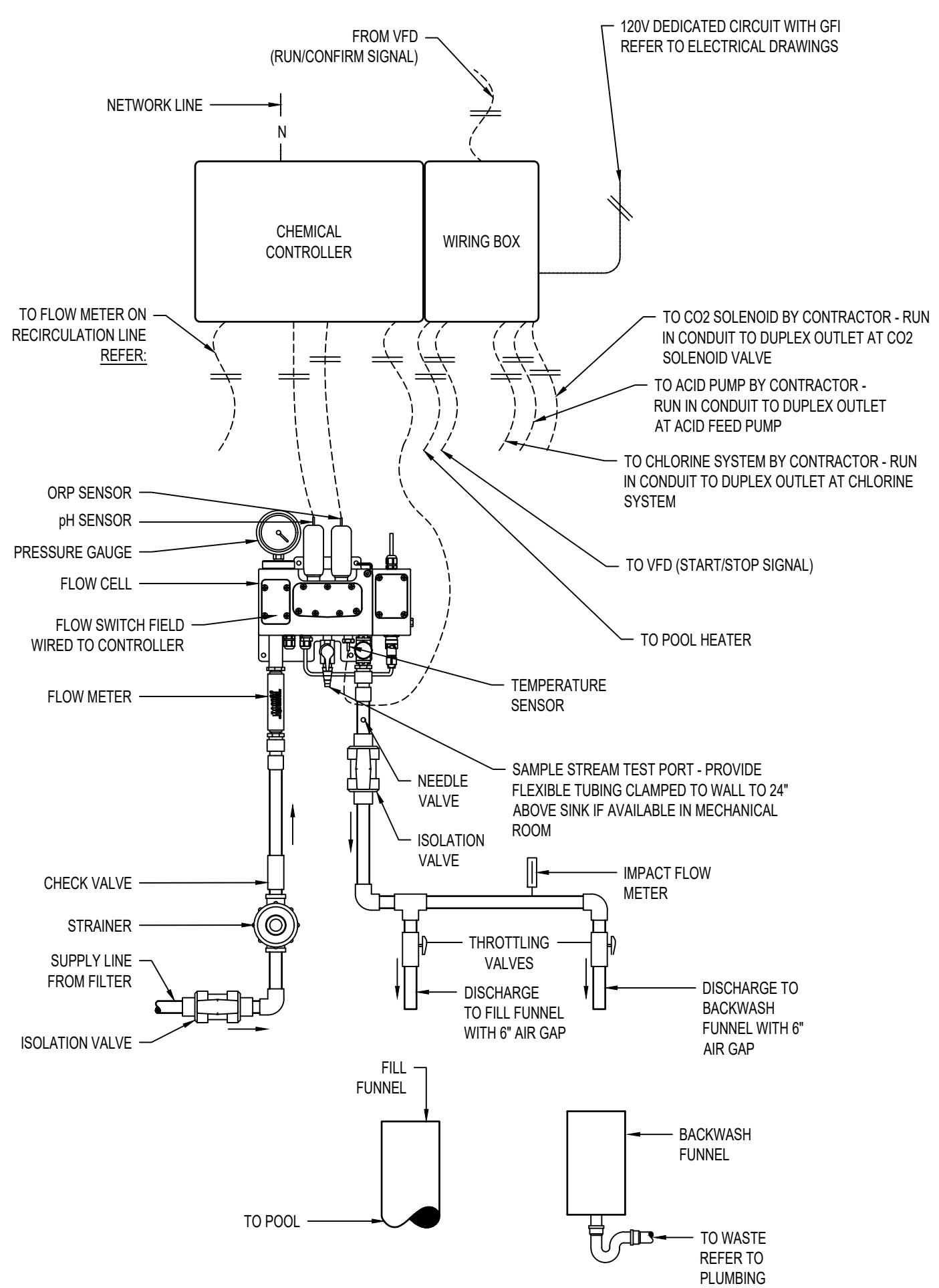
4 ACID SYSTEM
AQ502 3/4" = 1'-0"



5 CHEMICAL VENT PIPING
AQ502 6" = 1'-0"



1 TYPICAL PUMP DETAIL
AQ502 1/2" = 1'-0"

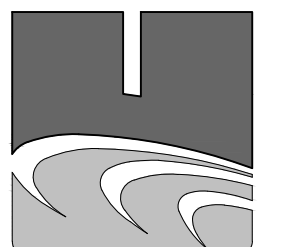


2 CHEMICAL CONTROLLER
AQ502 NTS

- NOTES:
- INTERLOCK WITH RECIRCULATION PUMP OCCURS INSIDE THE WIRING BOX ON BECS CONTROLLERS. CONTRACTOR TO PROVIDE FIELD WIRE INTERLOCK EXTERNAL TO THE CONTROLLER IF A BECS CONTROLLER IS NOT USED.
 - DRAWING IS FOR REFERENCE ONLY. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PIPE RUN FROM RECIRCULATION PIPE TO SAMPLE CELL TO BE 50 FEET OR LESS.
 - SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
 - PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.



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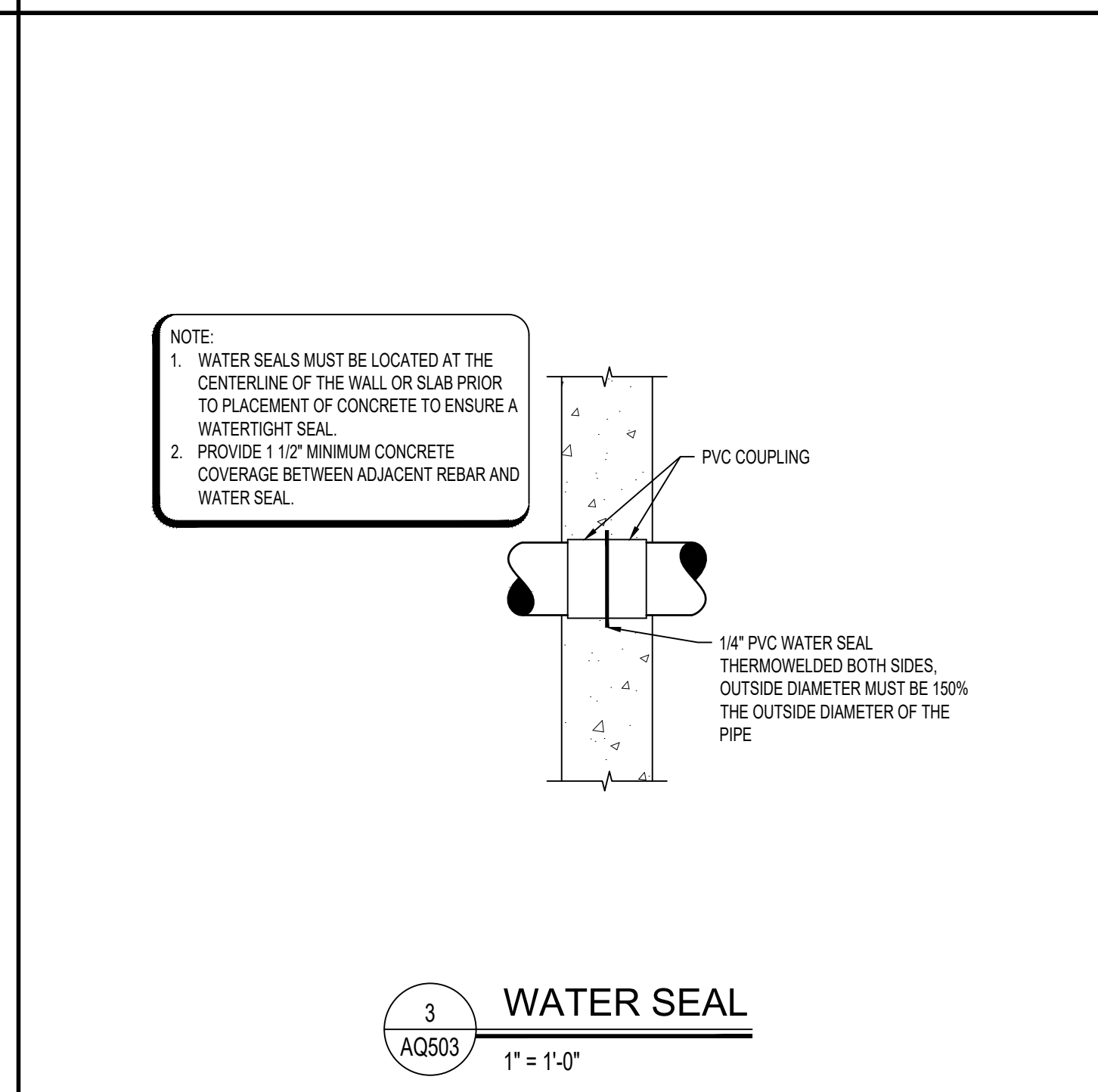
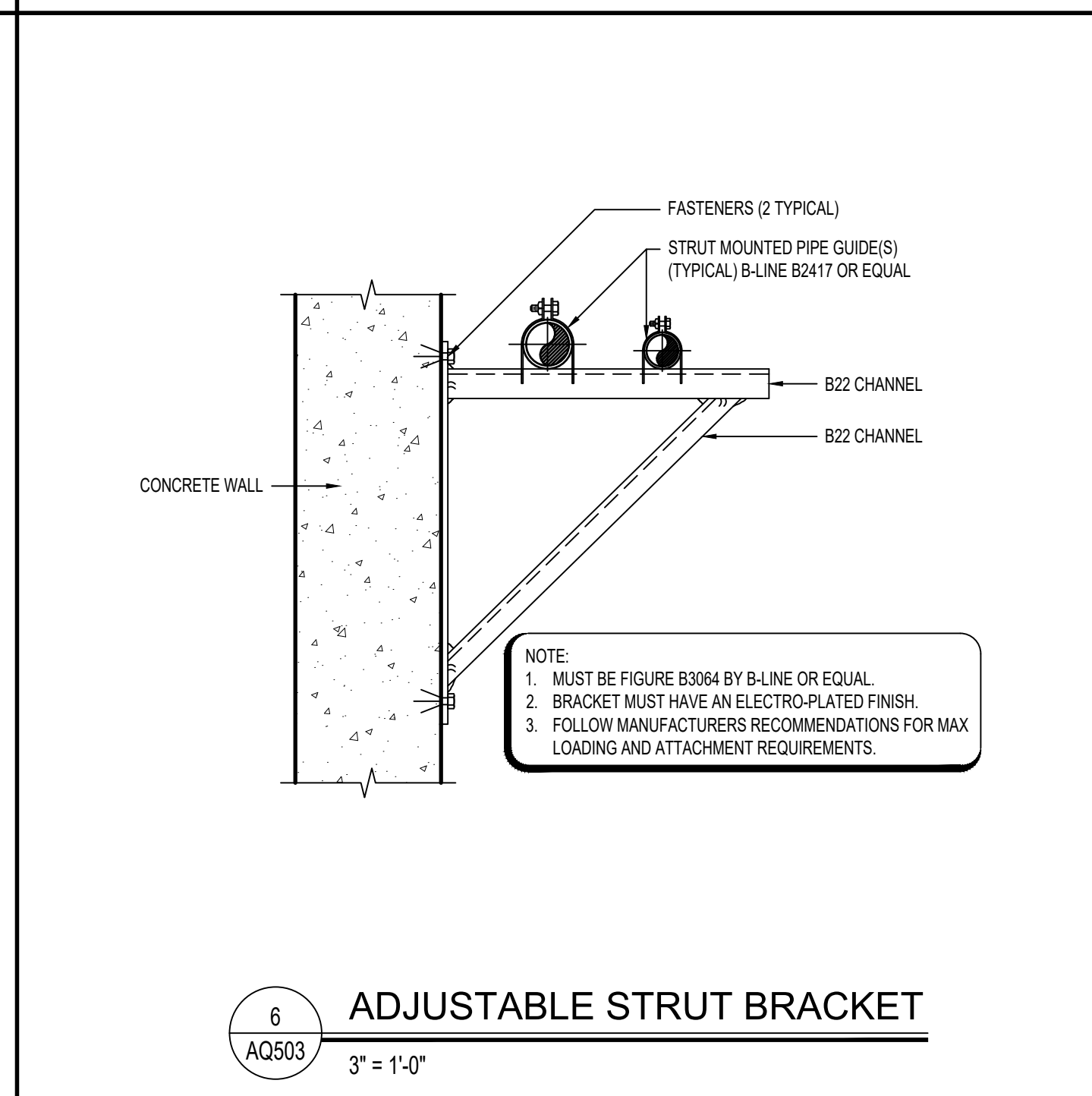
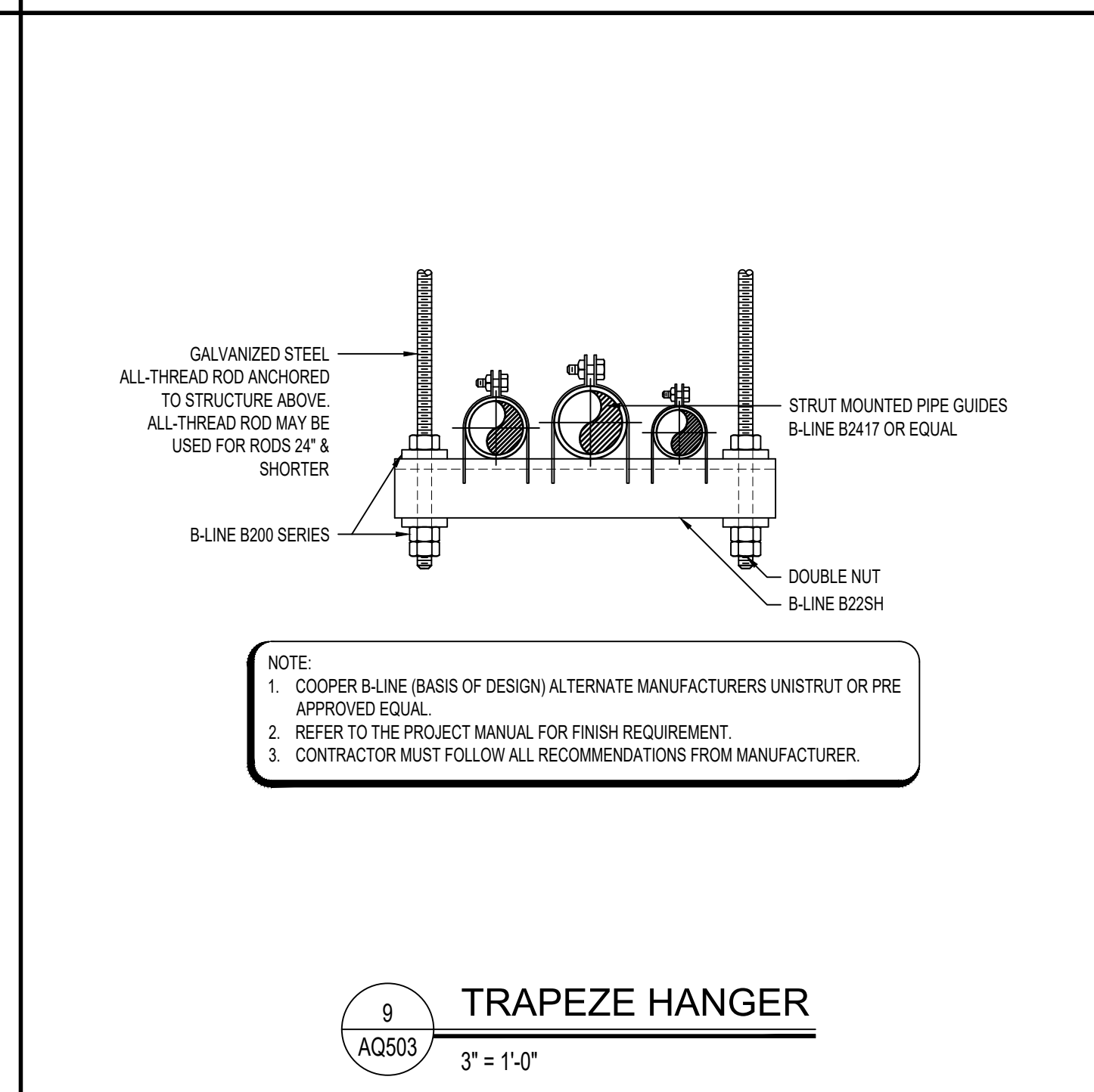
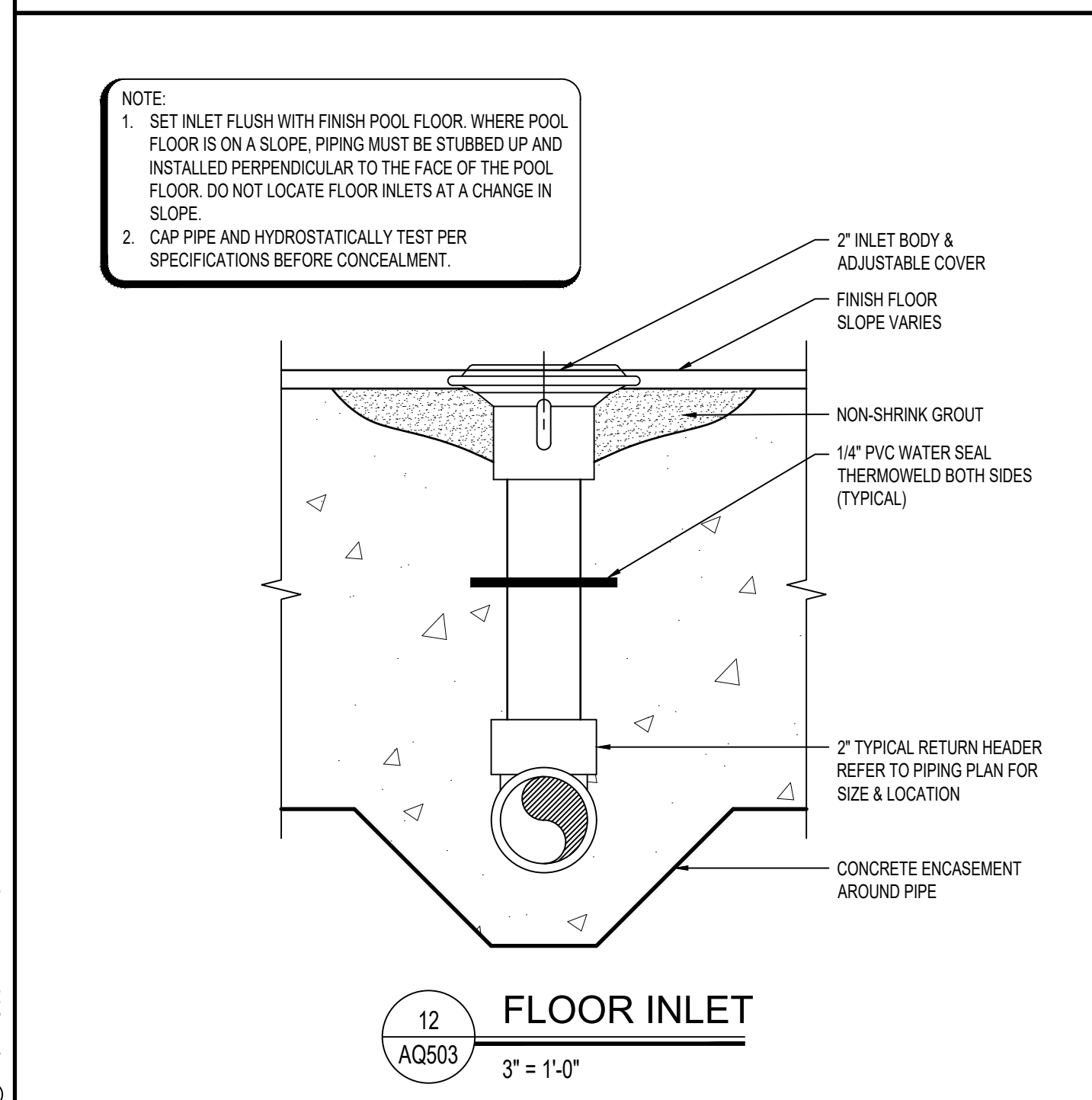
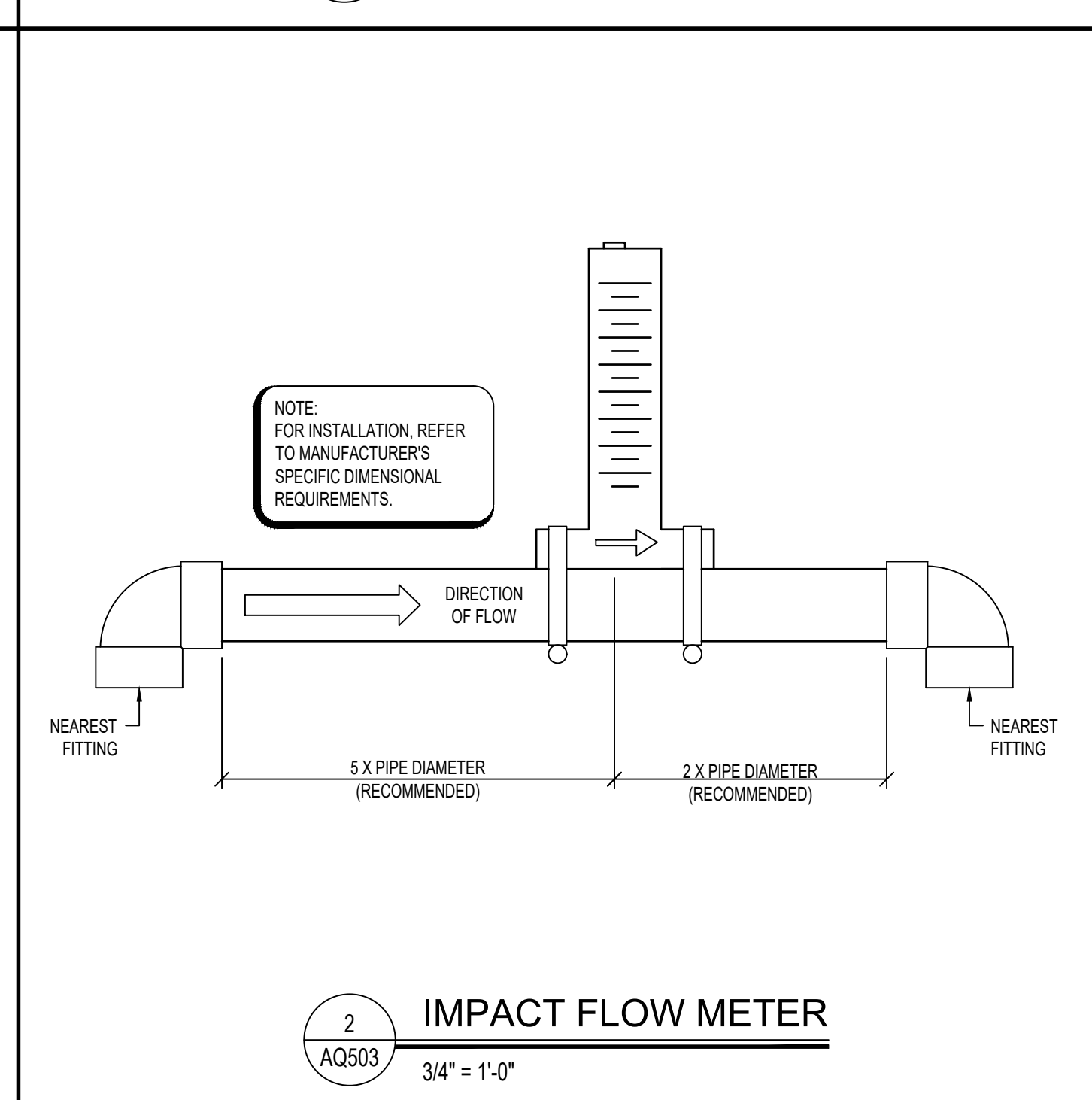
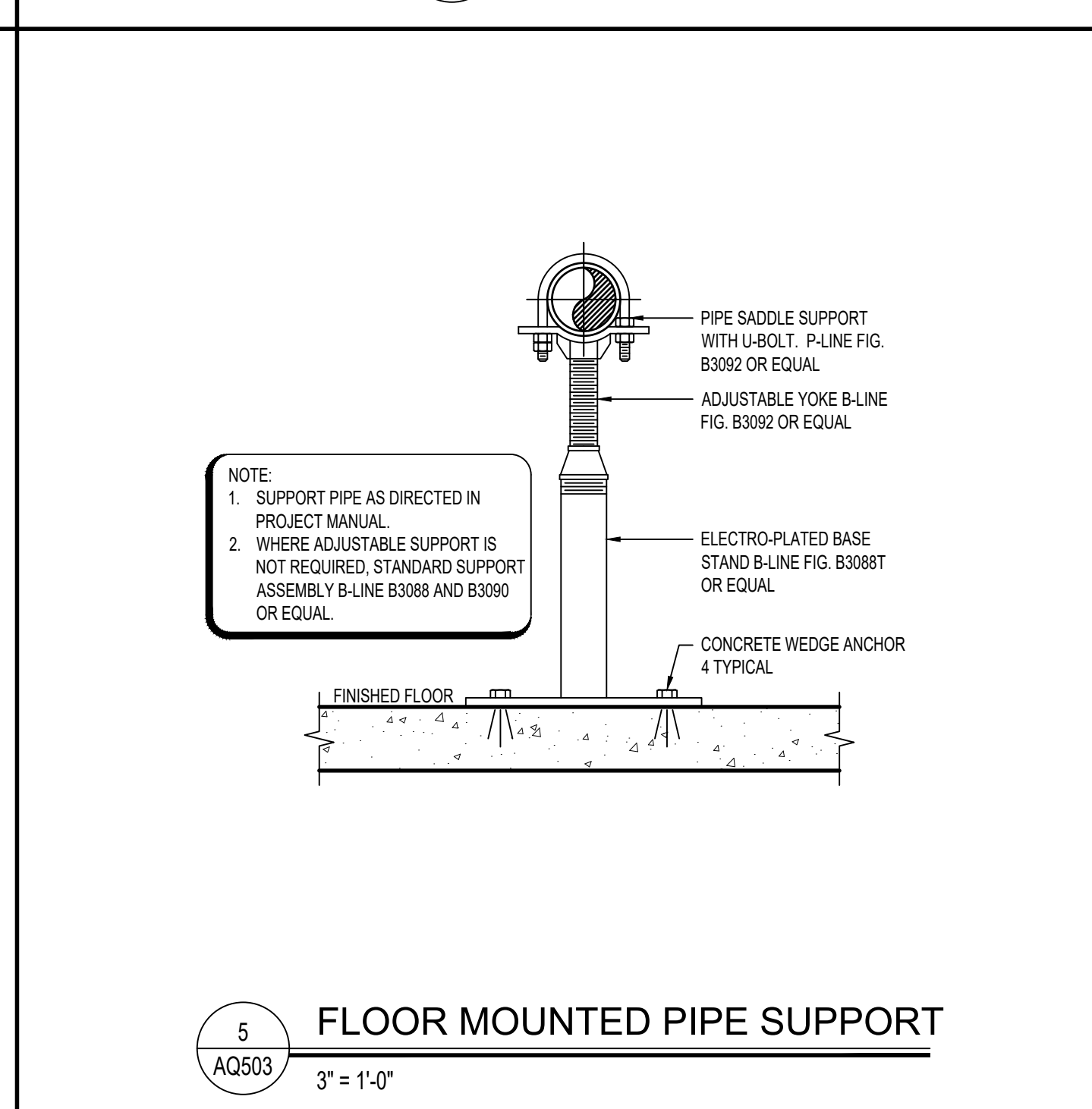
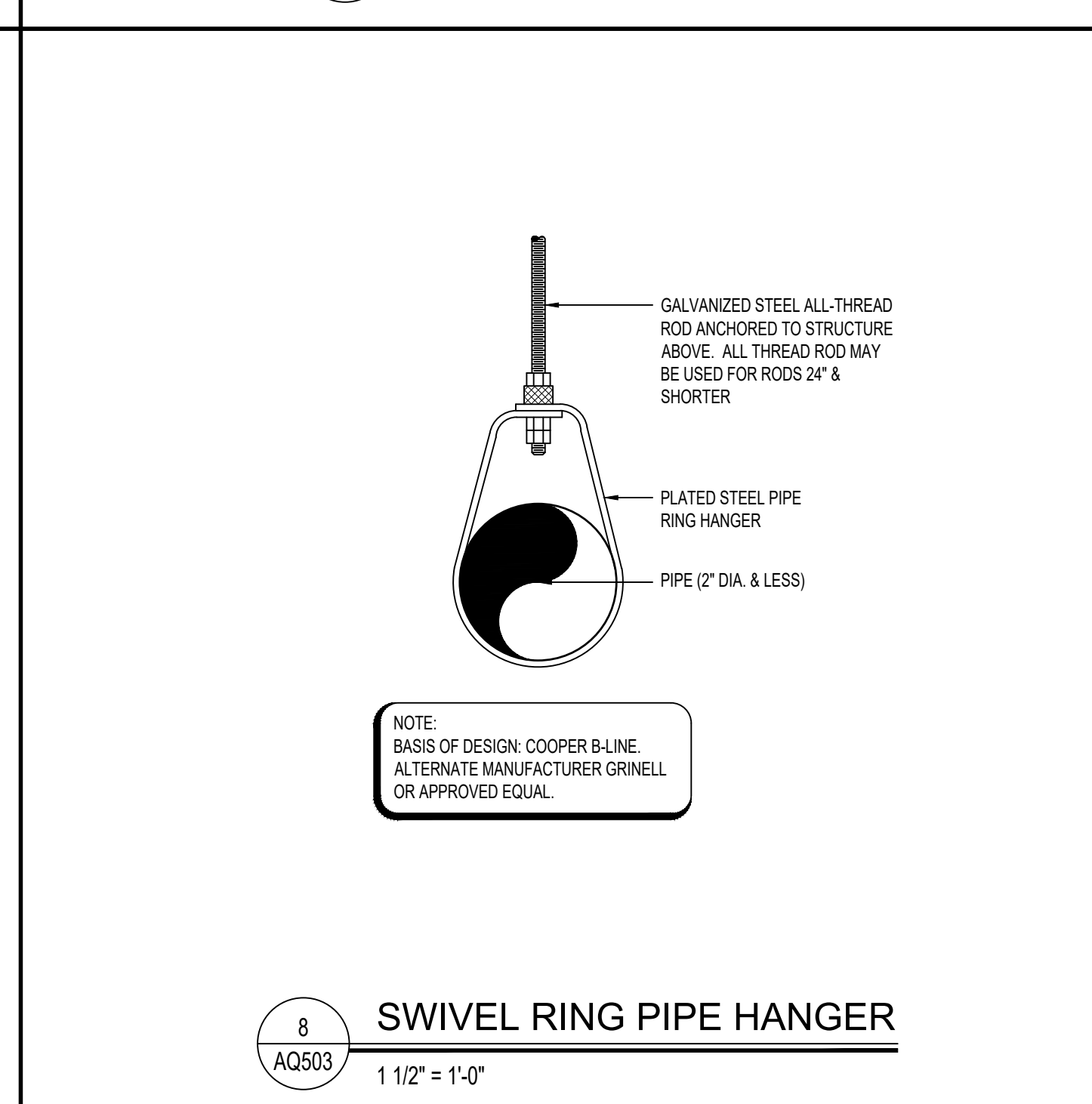
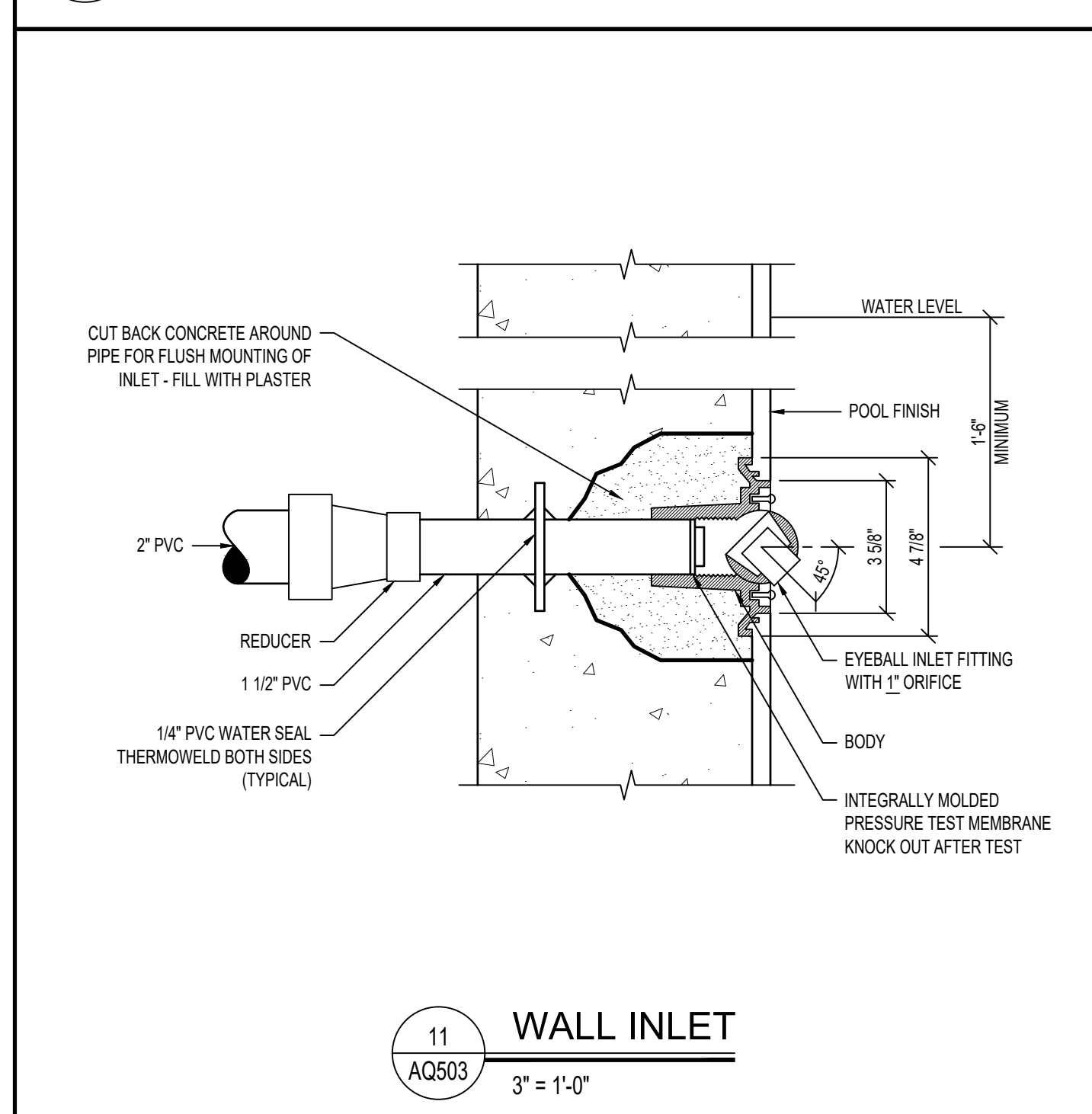
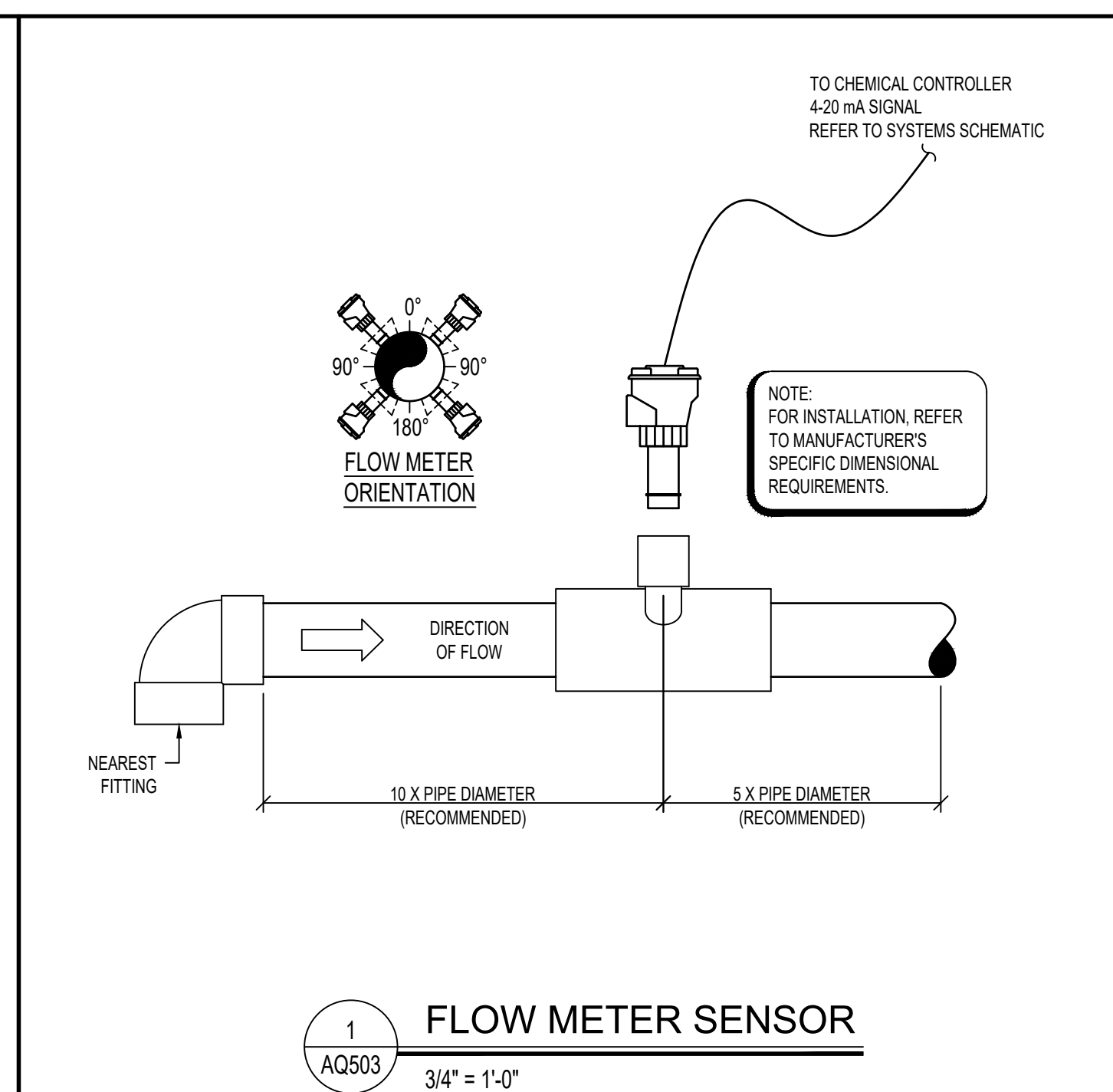
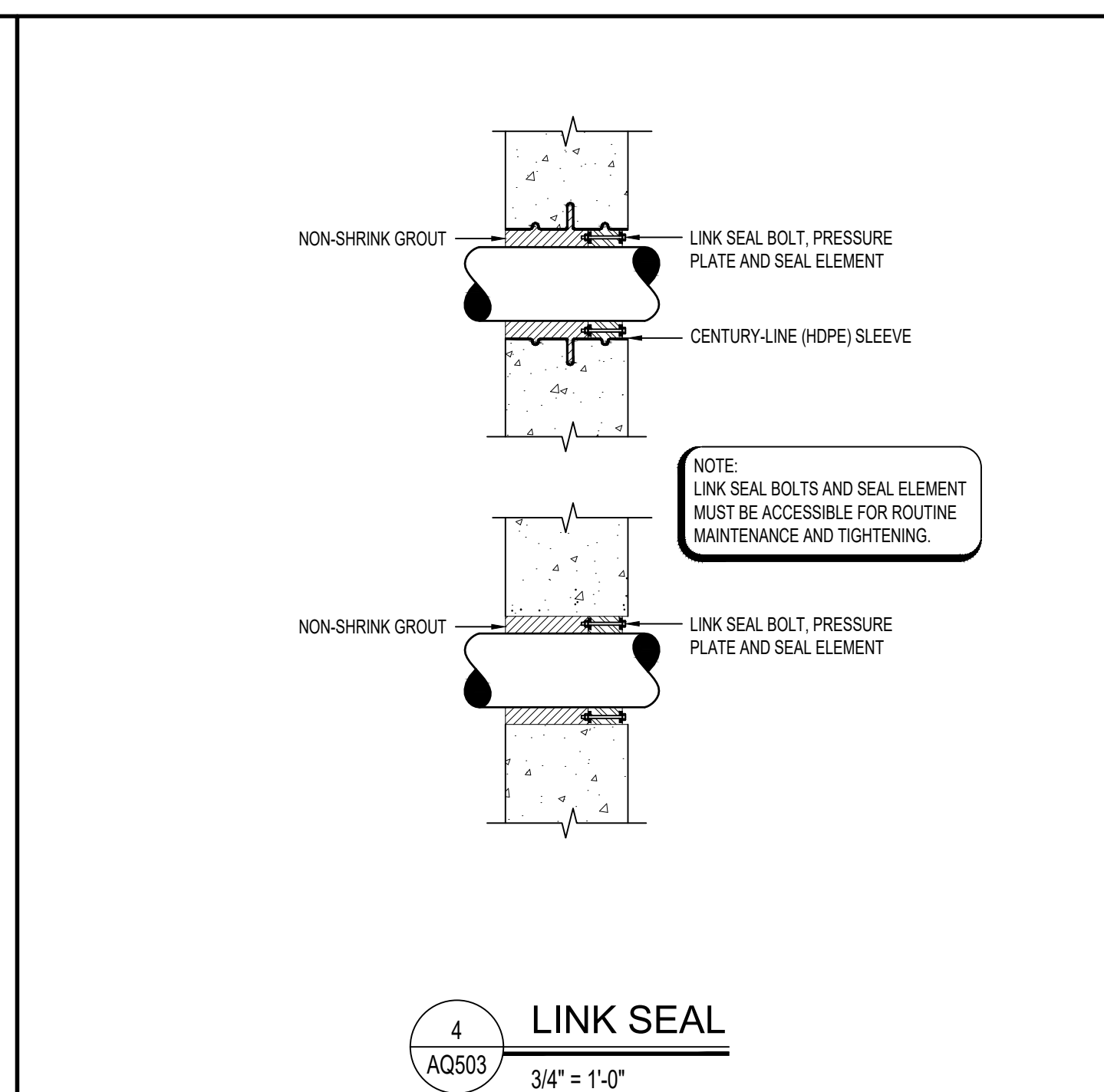
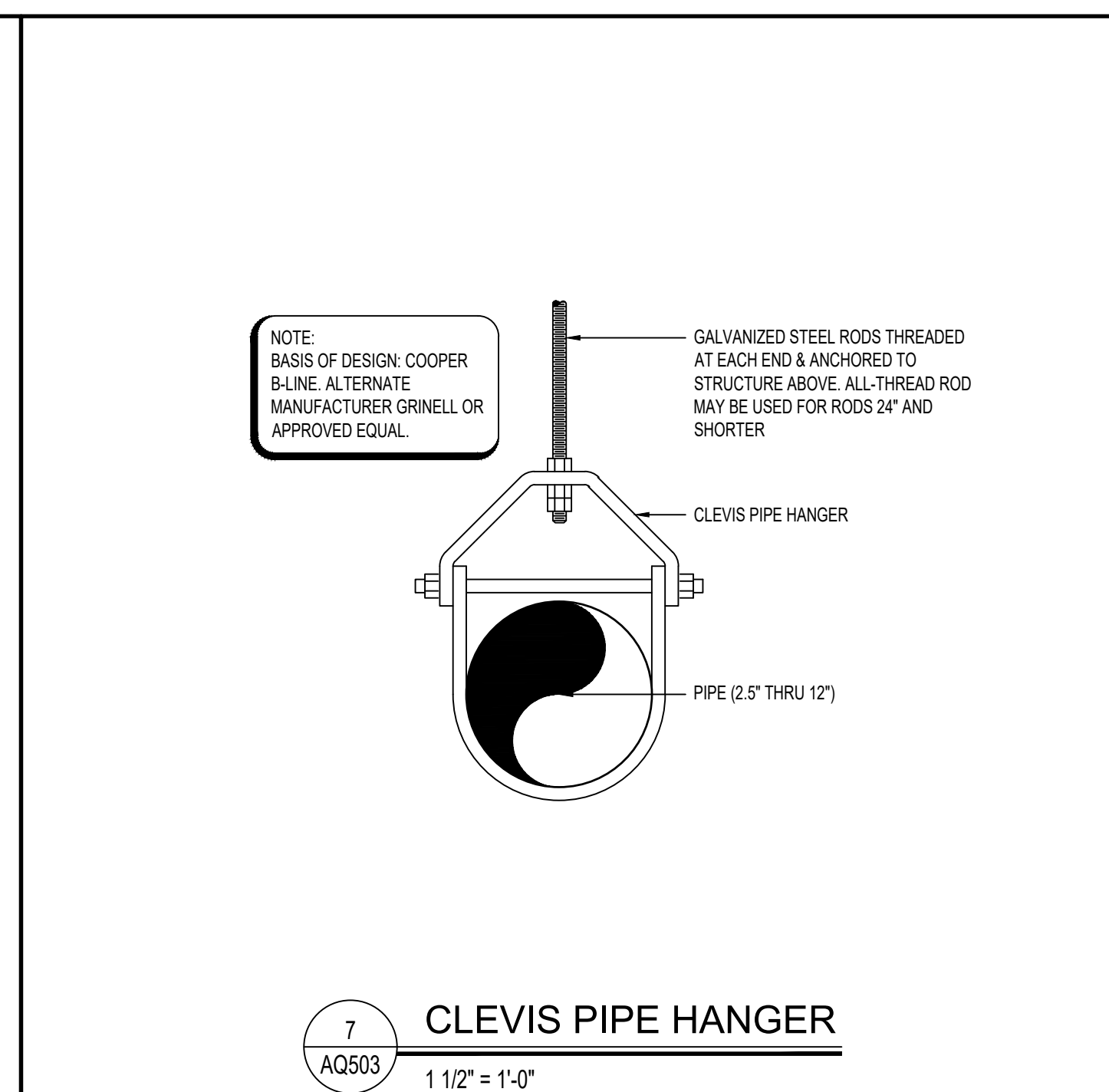
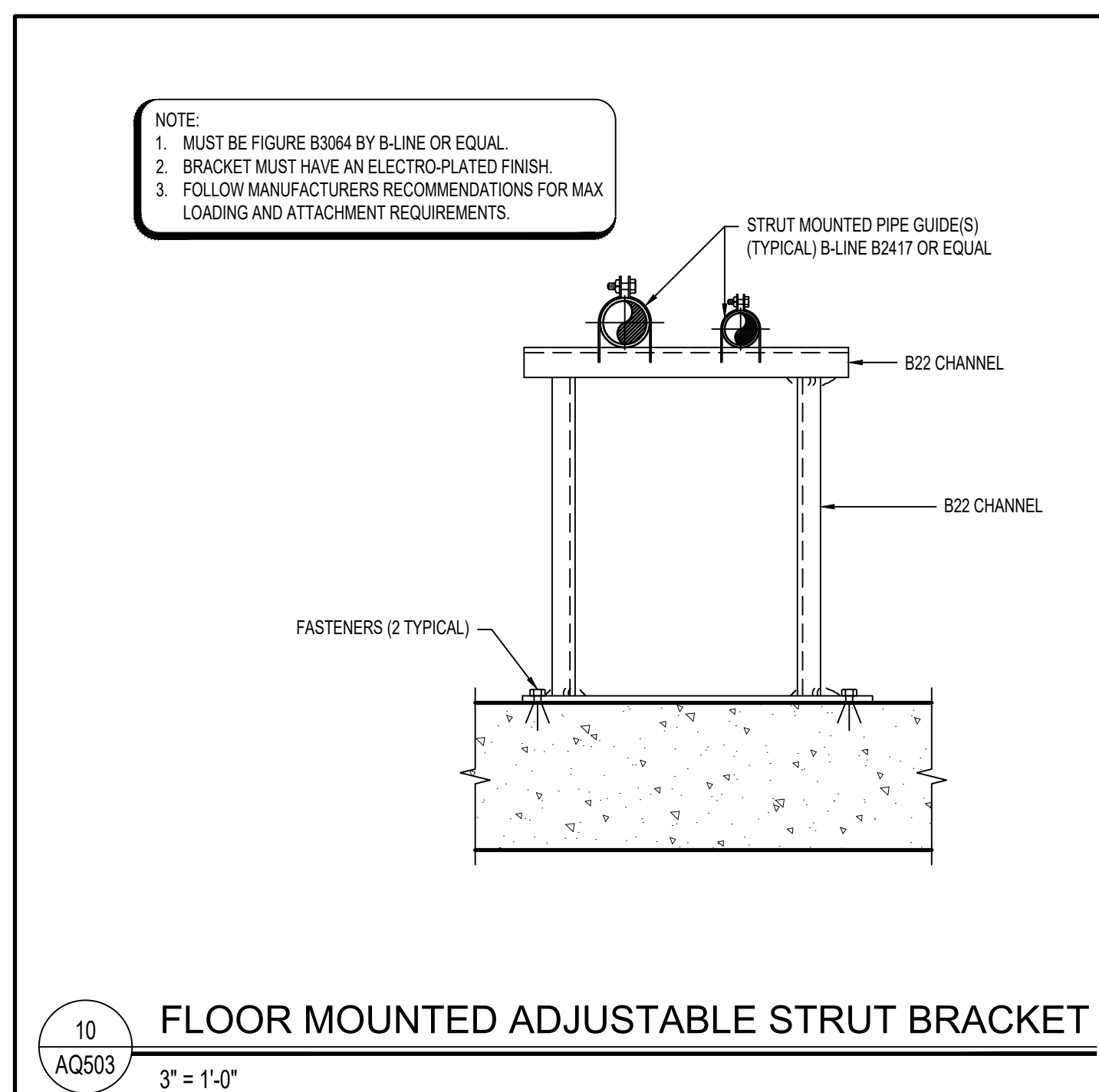
ISSUE DATE: JANUARY 22, 2024

PROJECT #: 23079

TITLE: POOL MECHANICAL DETAILS

SHEET #:

AQ502



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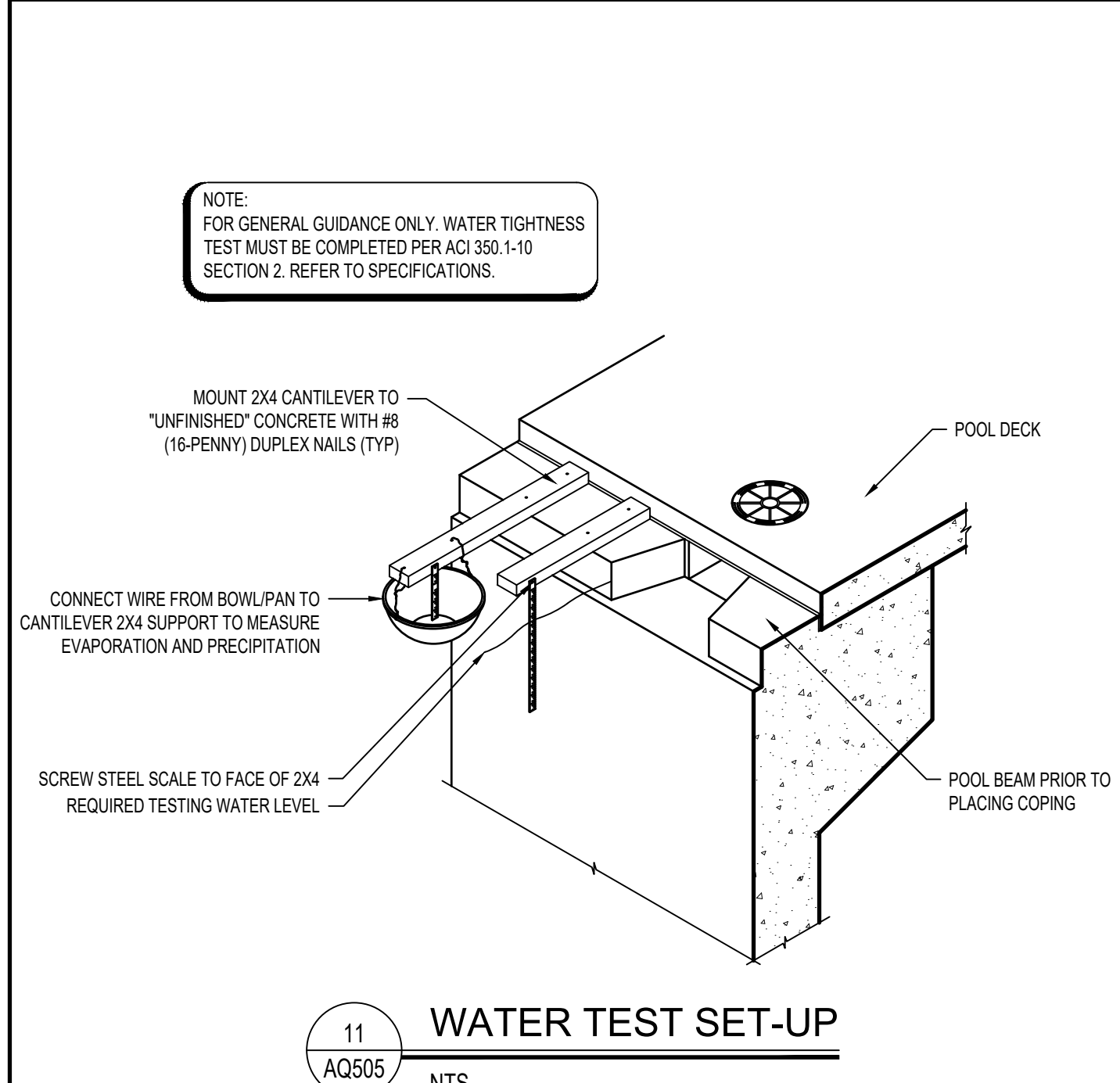
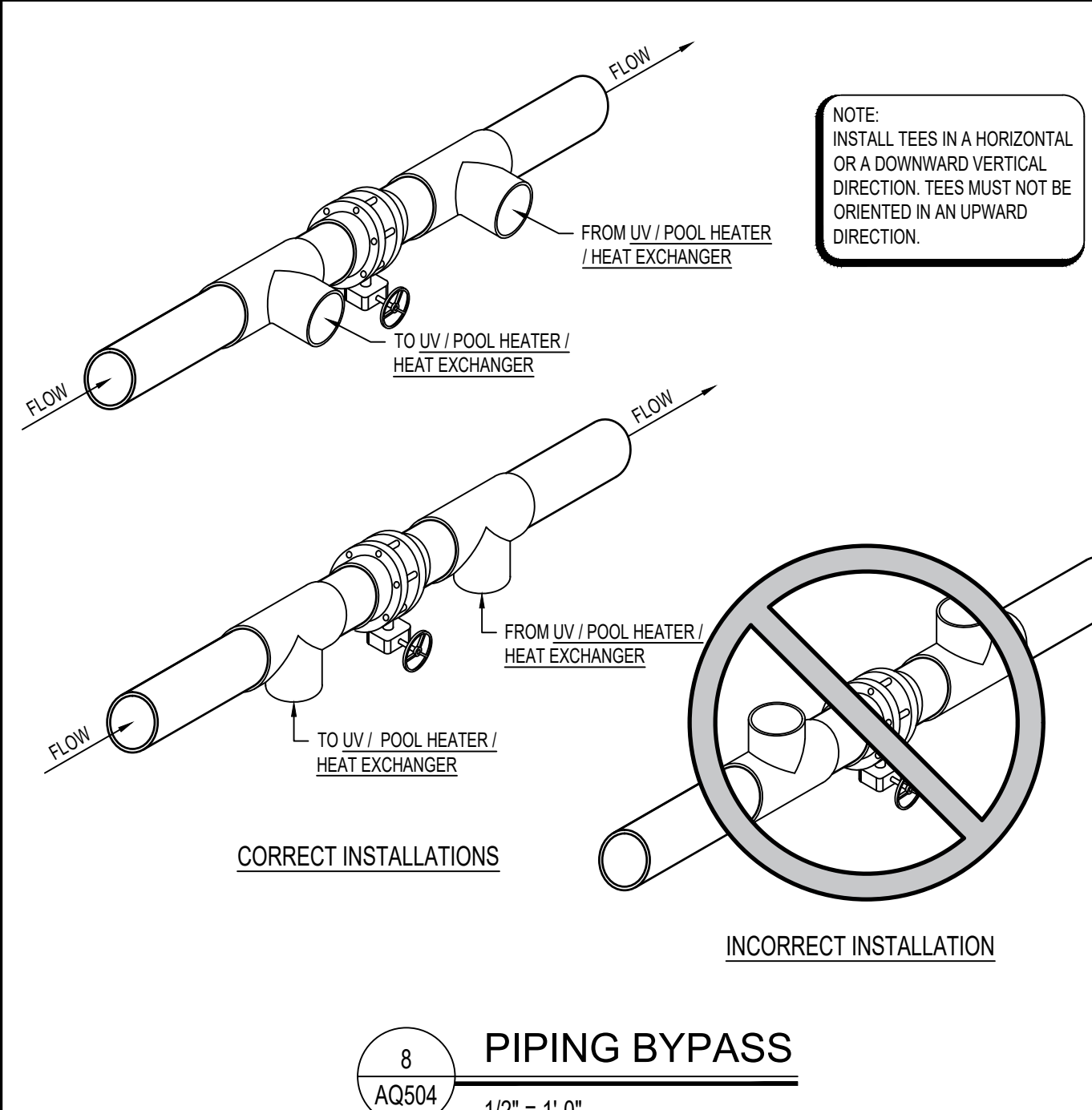
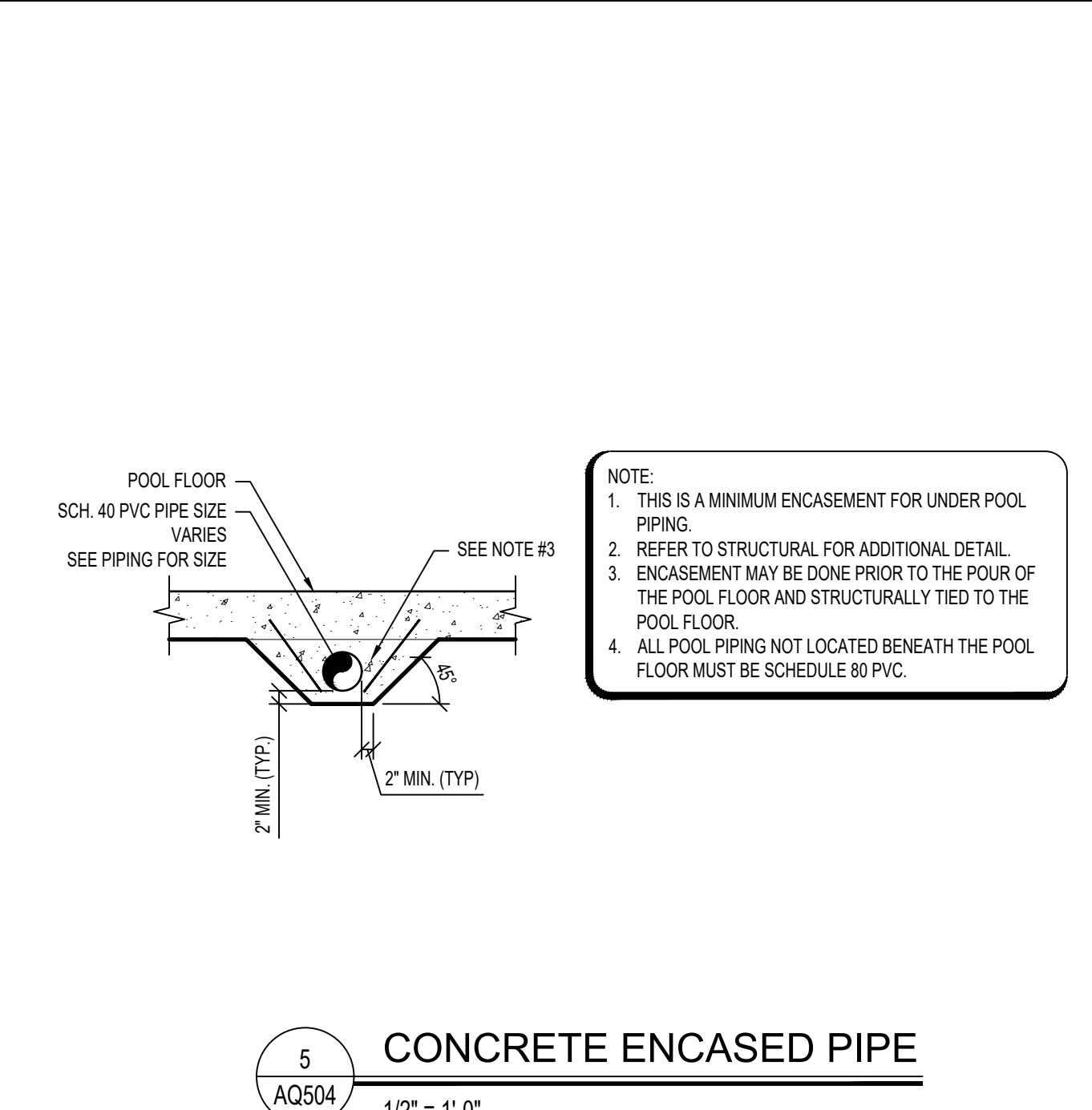
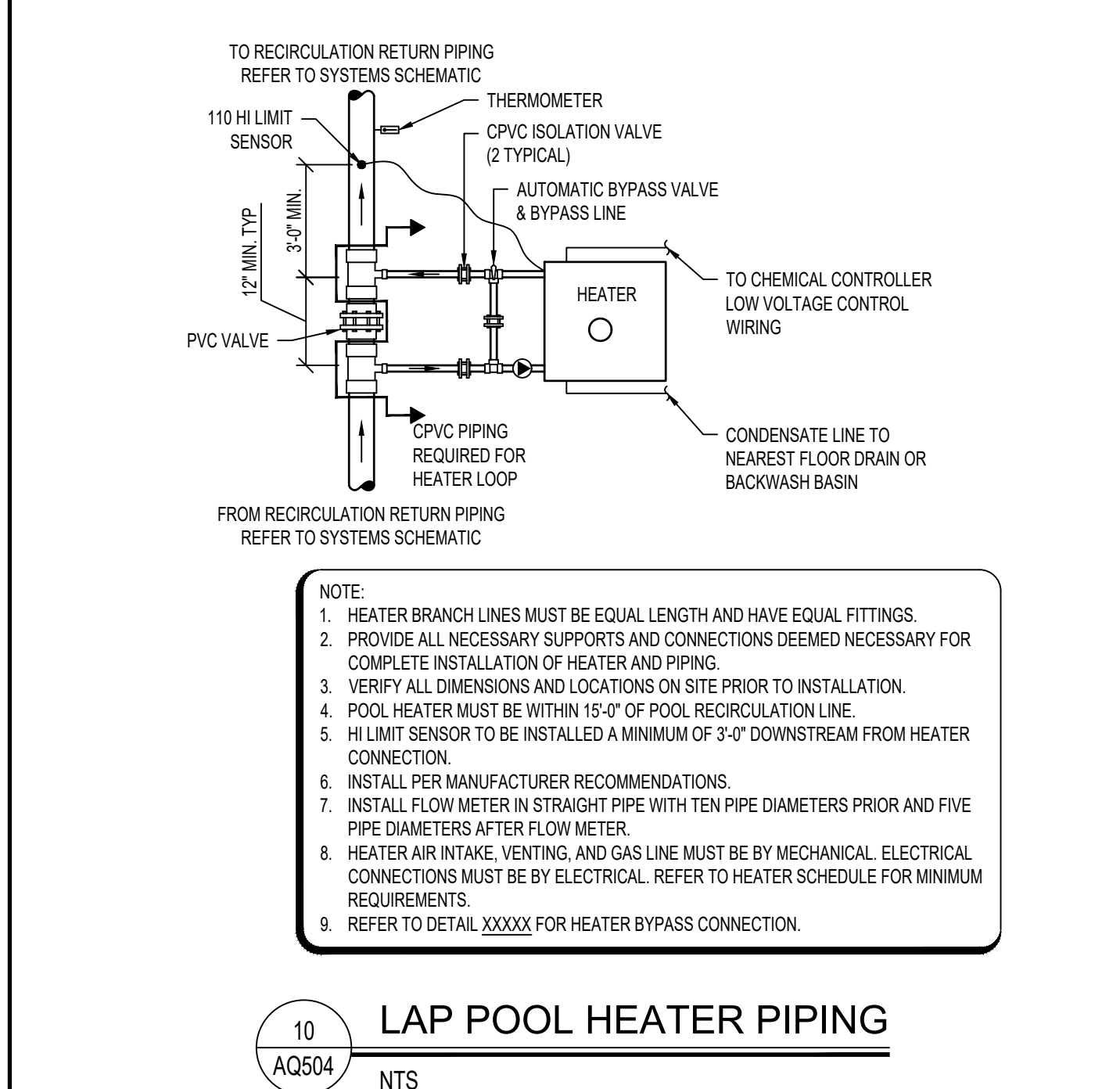
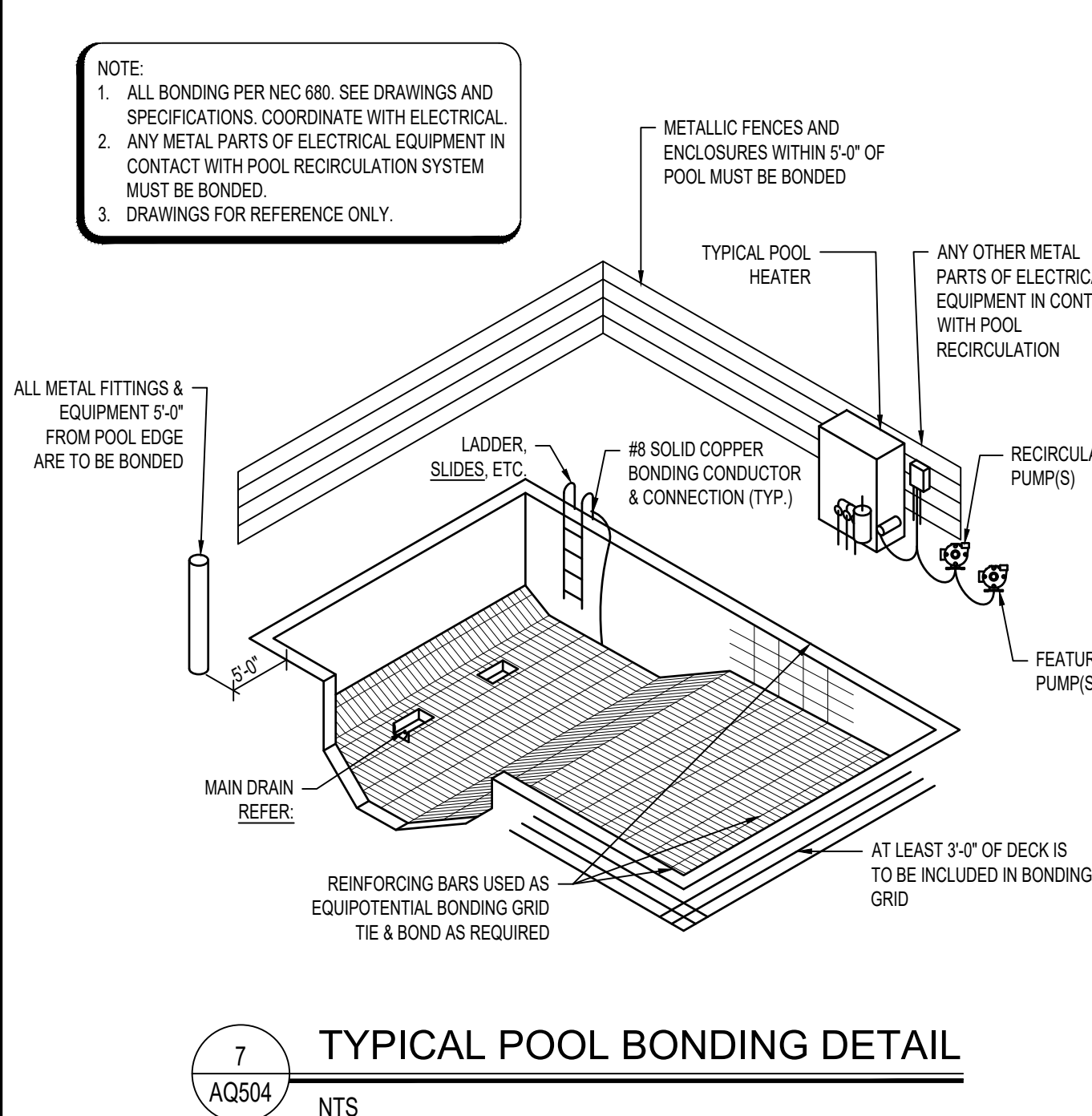
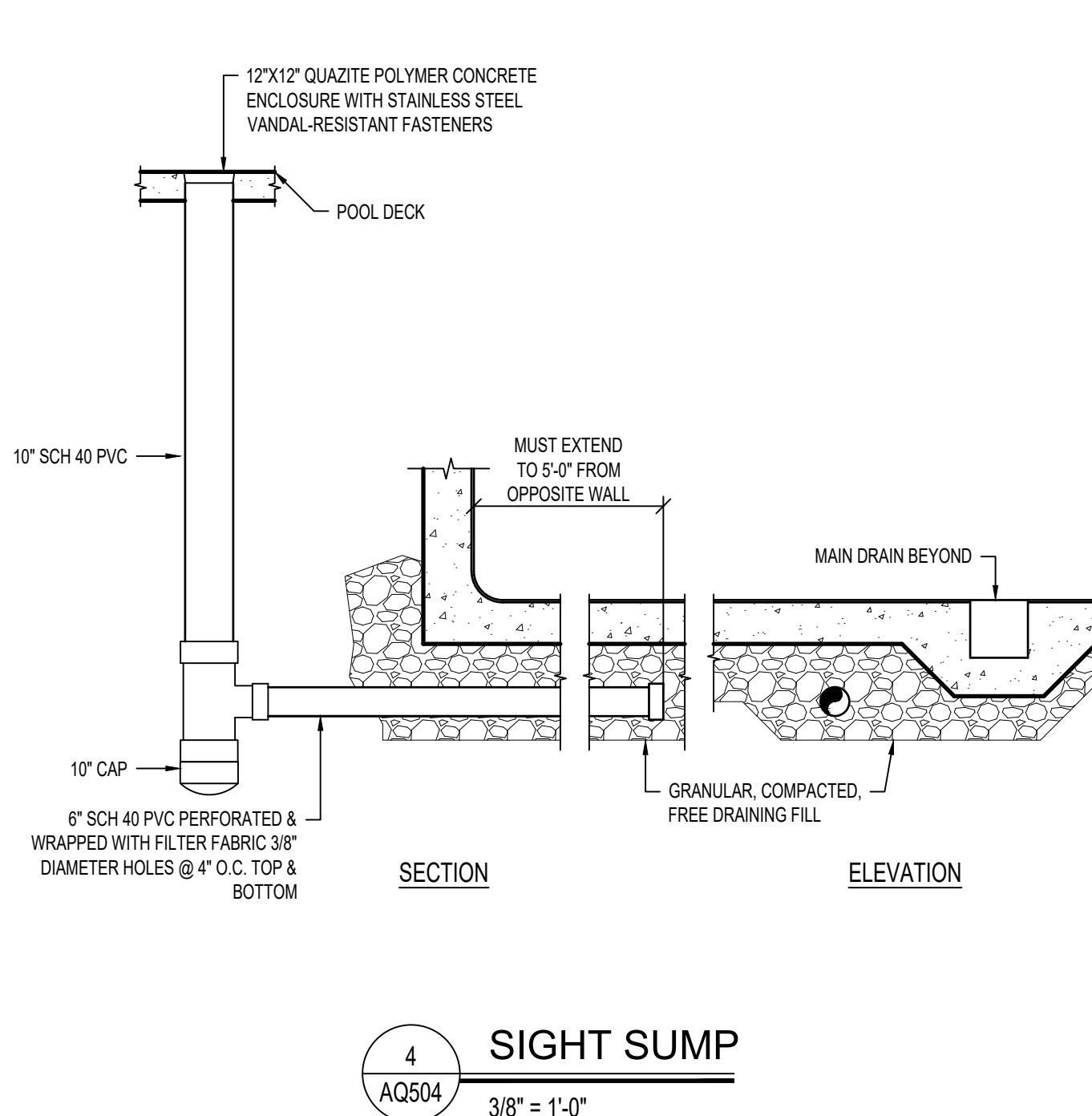
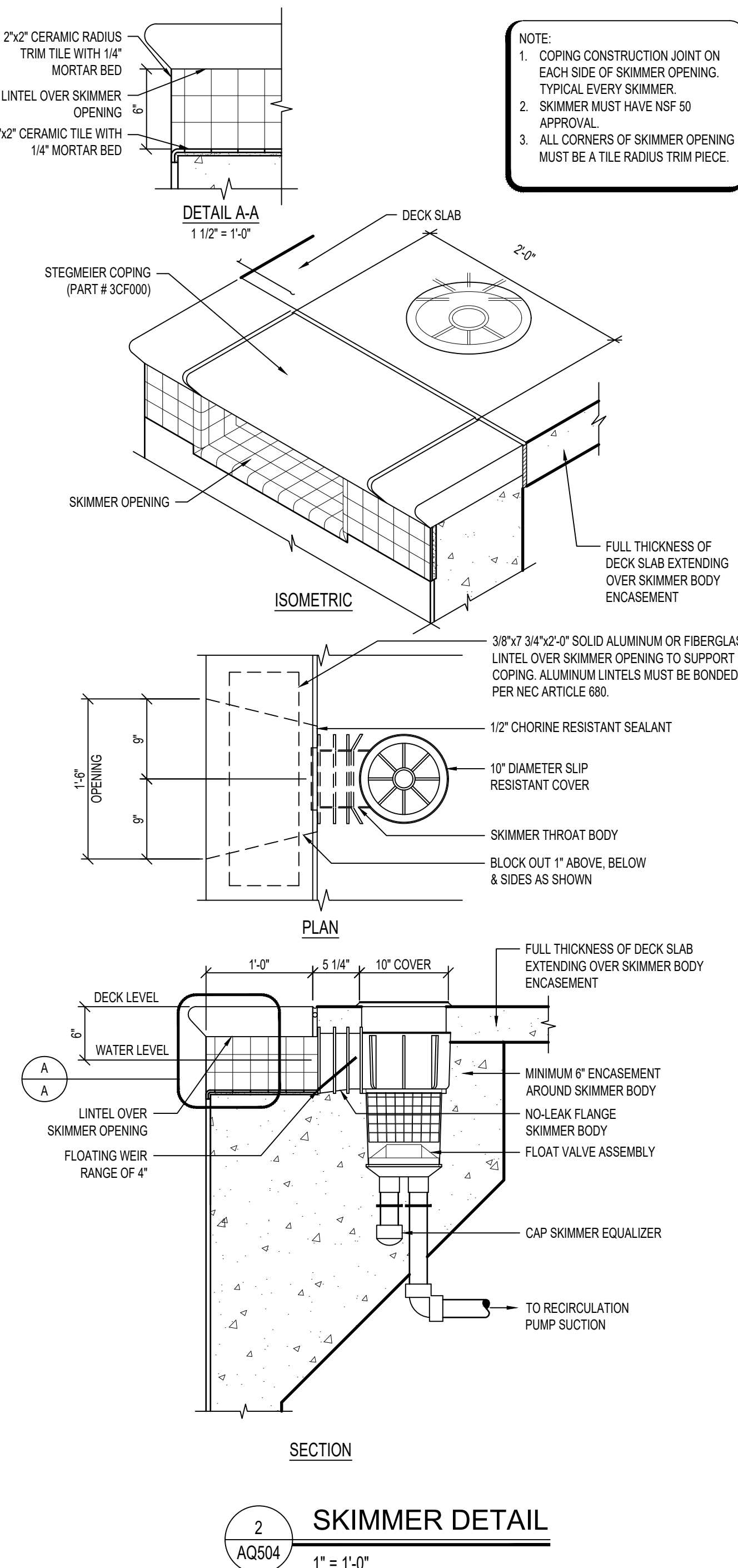
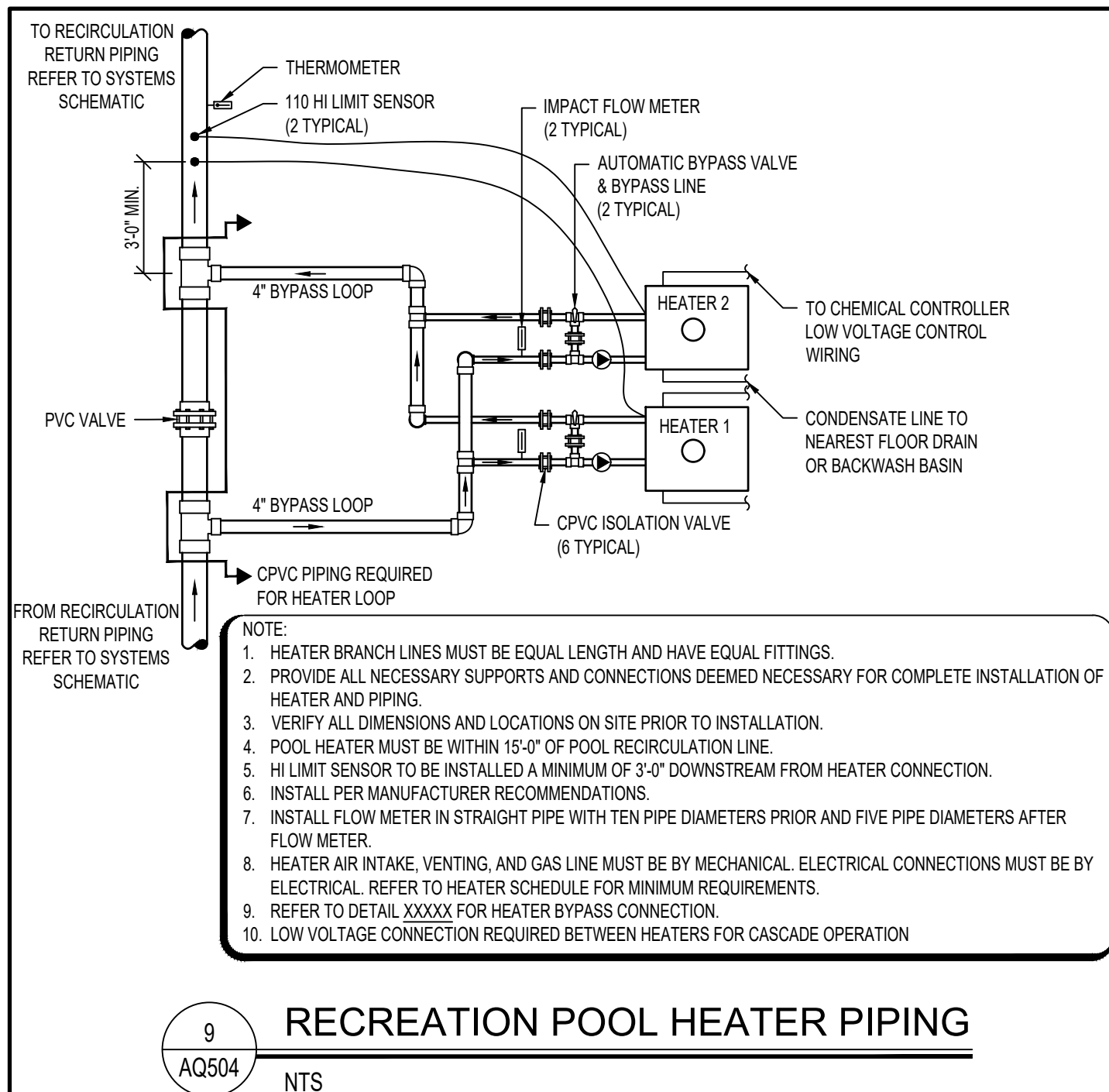
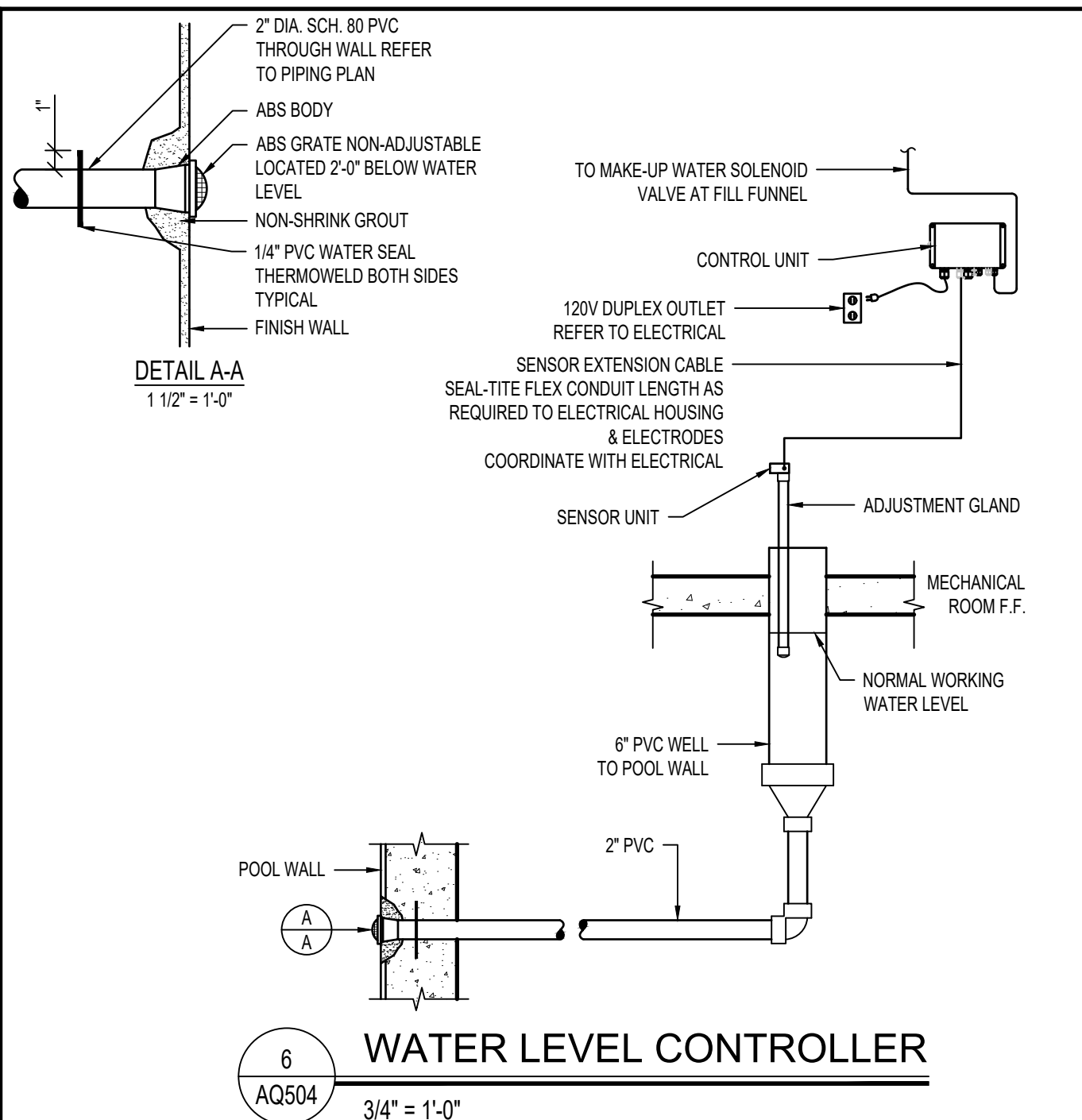
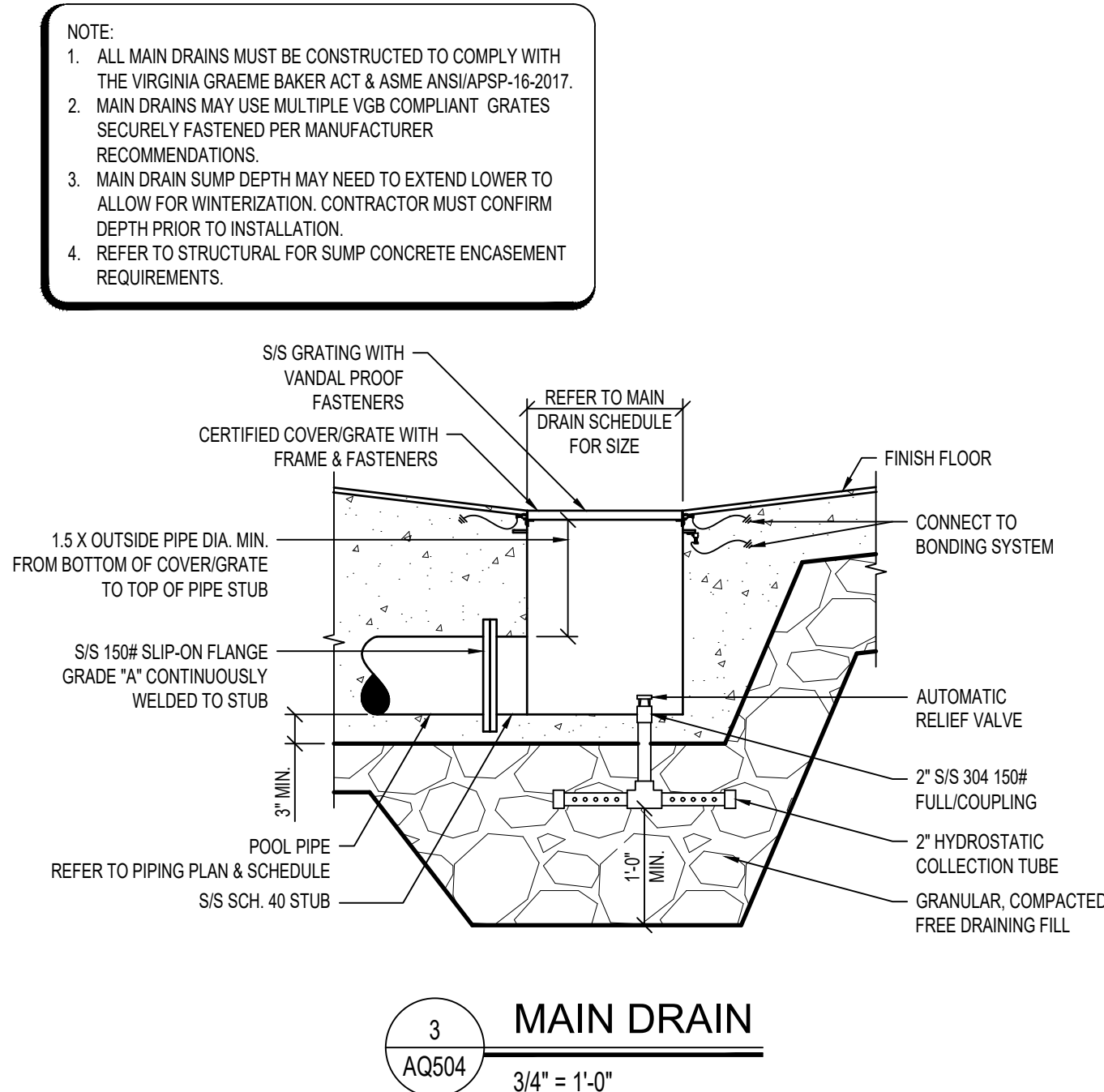
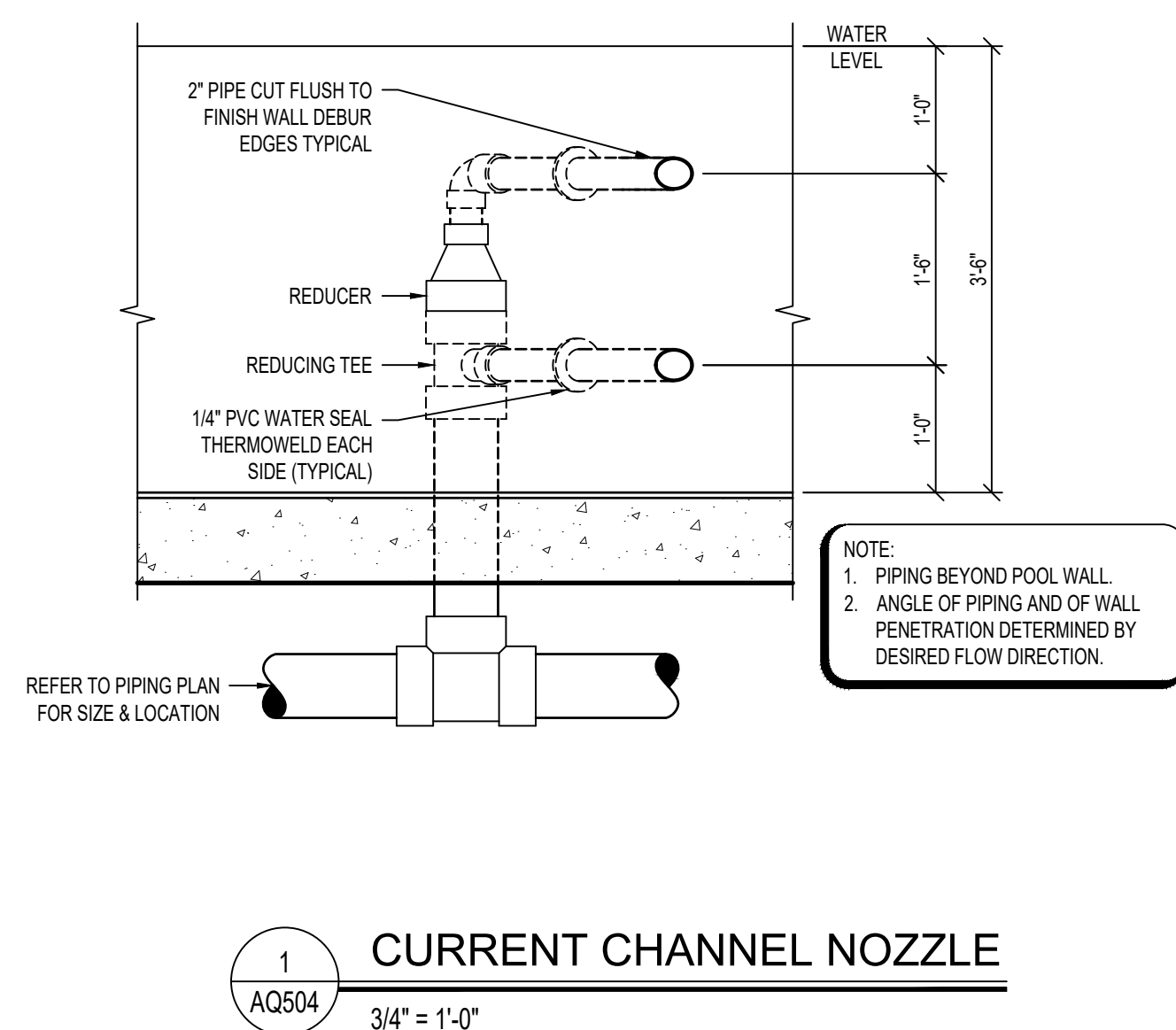
1700 Bull Pasture Rd, Eagle, CO 81631

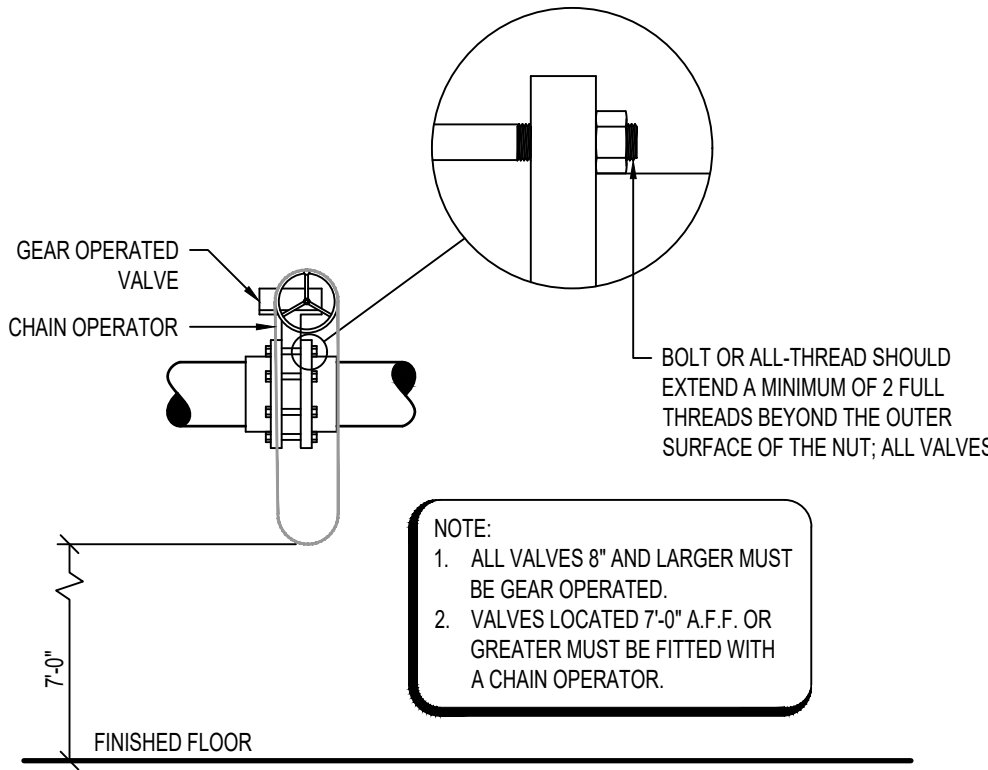
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SCALE: AS NOTED
 ISSUE DATE: JANUARY 22, 2024
 PROJECT #: 23079
 TITLE: POOL MECHANICAL DETAILS

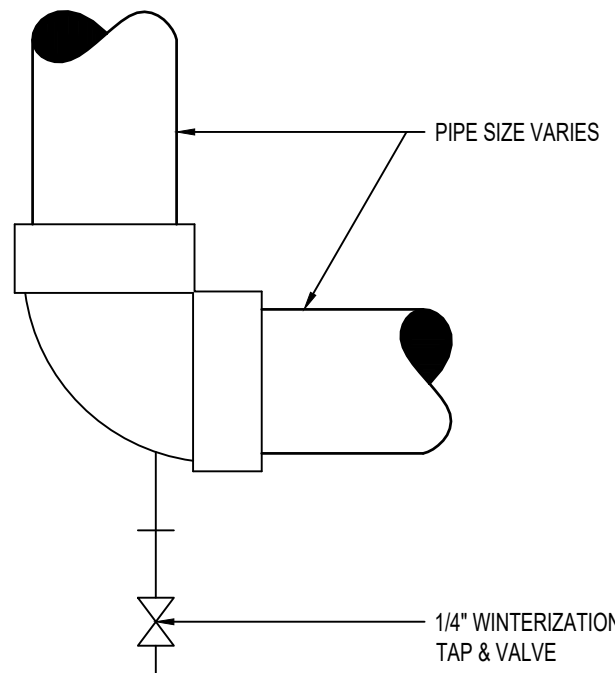
SHEET #

AQ504

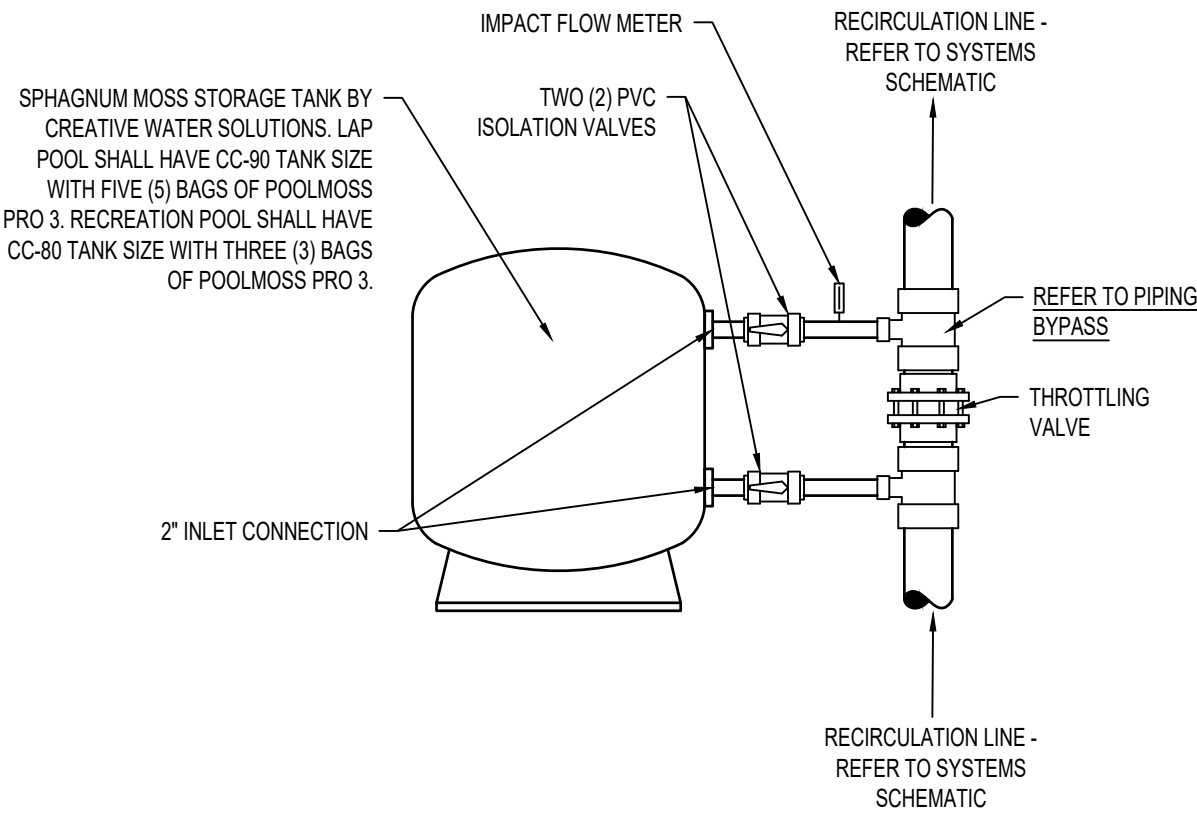




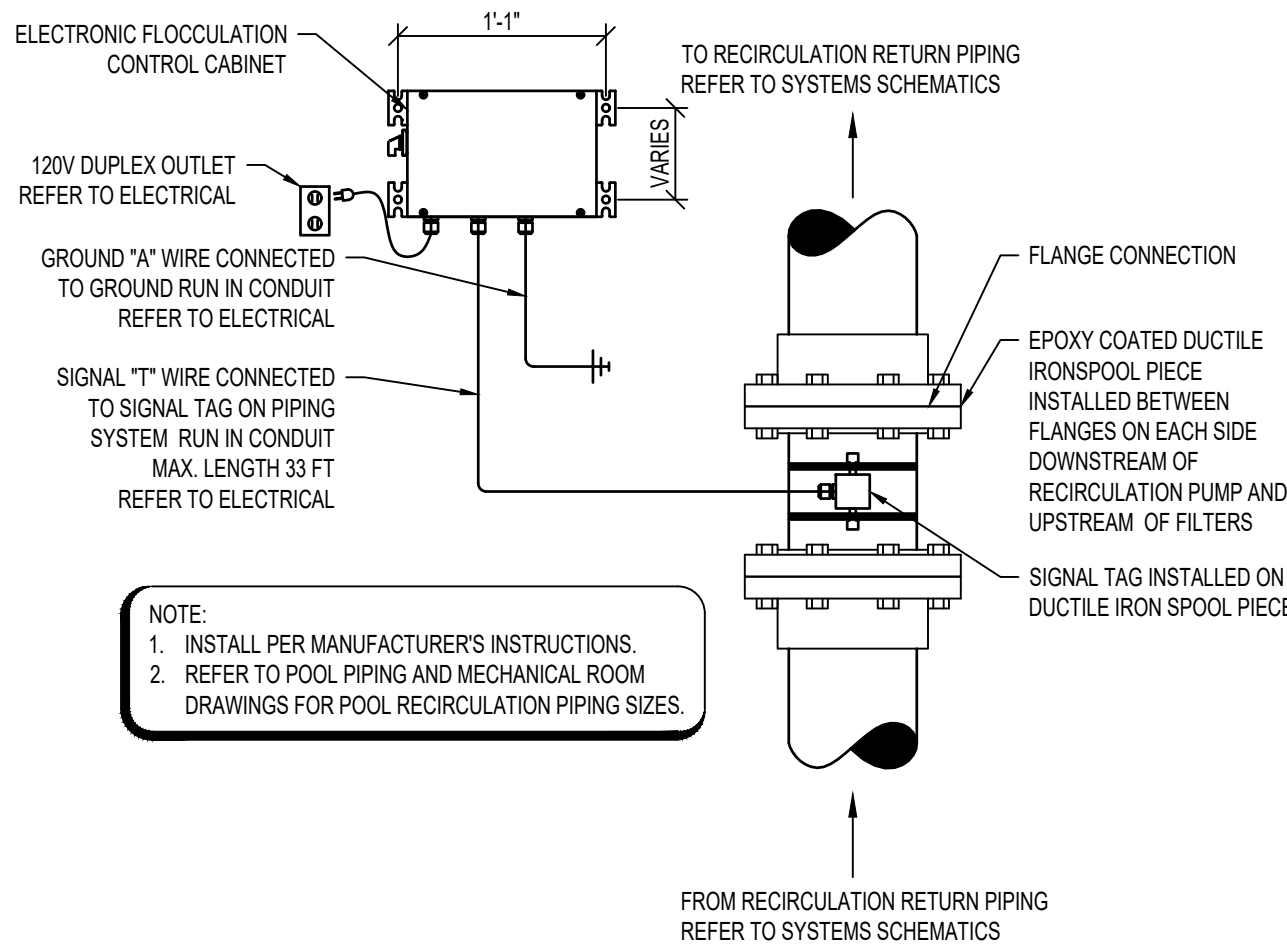
4 VALVE
AQ505 1/2" = 1'-0"



1 WINTERIZATION TAP & VALVE
AQ505 1 1/2" = 1'-0"



2 SPHAGNUM MOSS
AQ505 NTS

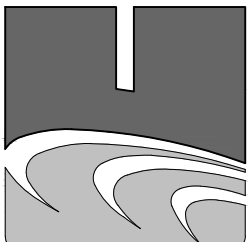


NOTE:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. REFER TO POOL PIPING AND MECHANICAL ROOM DRAWINGS FOR POOL RECIRCULATION PIPING SIZES.

3 ELECTRONIC FLOCCULATION SYSTEM
AQ505 1" = 1'-0"



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Mountain Recreation Eagle Pool

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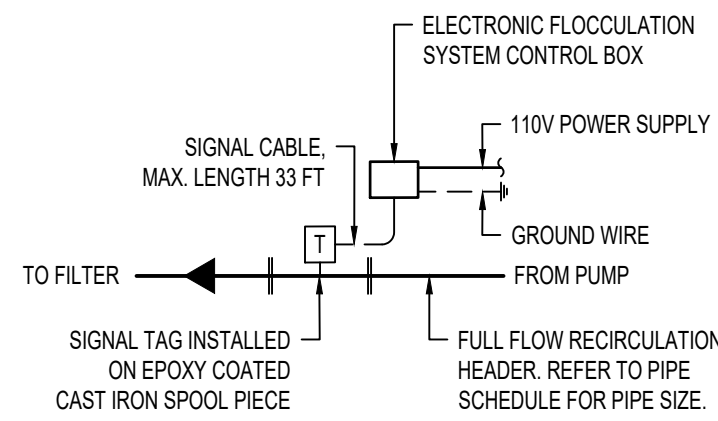
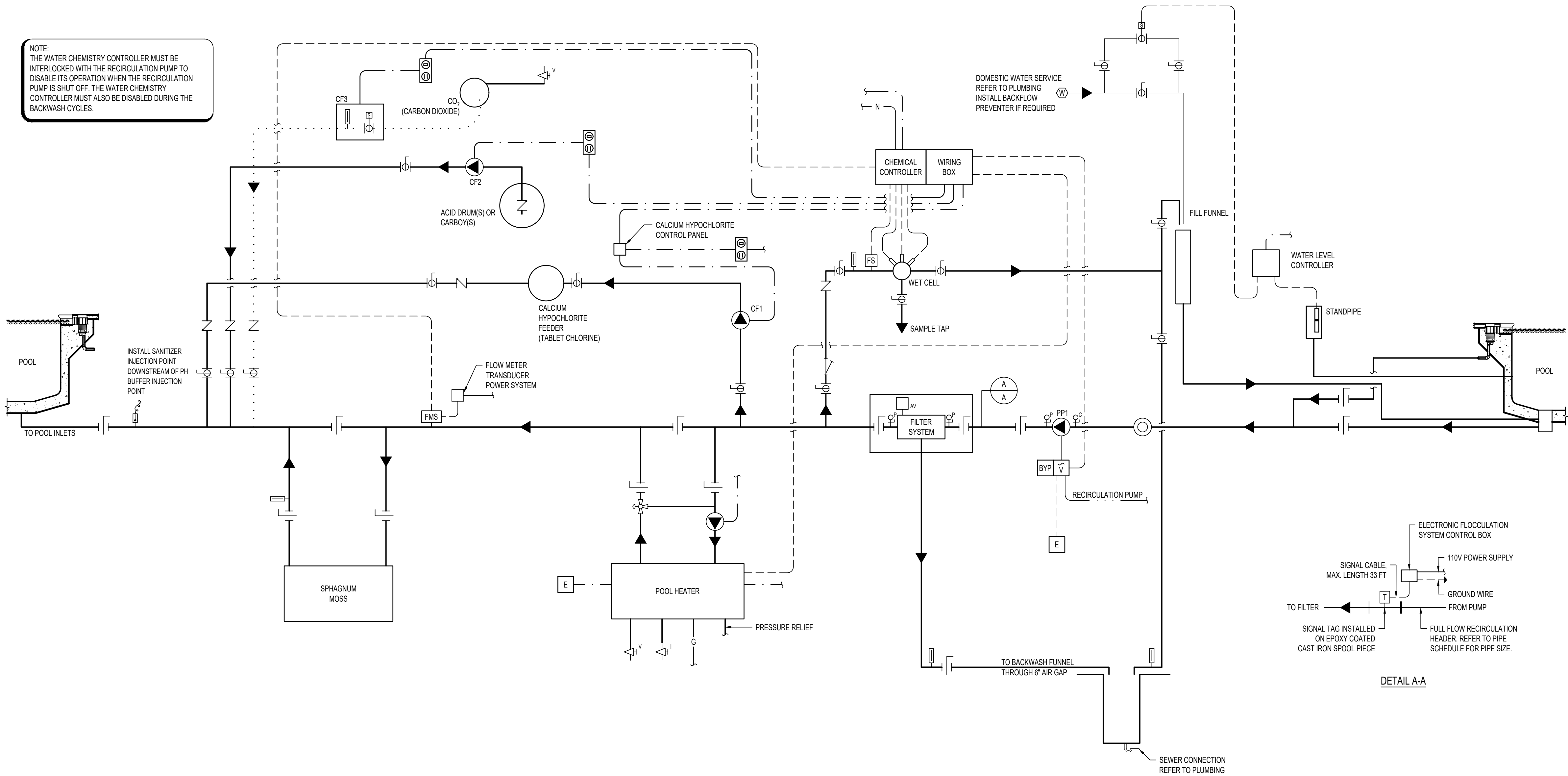
NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: POOL MECHANICAL DETAILS

SHEET #:

AQ505



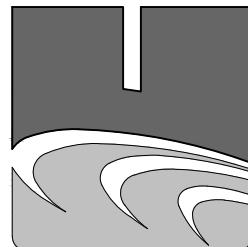
1
AQ600
LAP POOL SYSTEMS SCHEMATIC
NTS

SCHEMATIC LEGEND

LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT VALVE
	SOLENOID VALVE
	CHECK VALVE
	THREE WAY VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
	FLOW METER SENSOR
	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
	WATER METER
	AUTOMATIC AIR VENT
	AIR VENT
	AIR INLET
	PRESSURE GAUGE AND PETCOCK
	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
	AUTOMATIC PUMP SHUT-OFF DEVICE
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP
	EMERGENCY STOP
	VARIABLE FREQUENCY DRIVE BYPASS
	CONTACT MOTOR SELECTOR
	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO ₂ LINE
	NETWORK LINE BY ELECTRICAL
	GAS LINE



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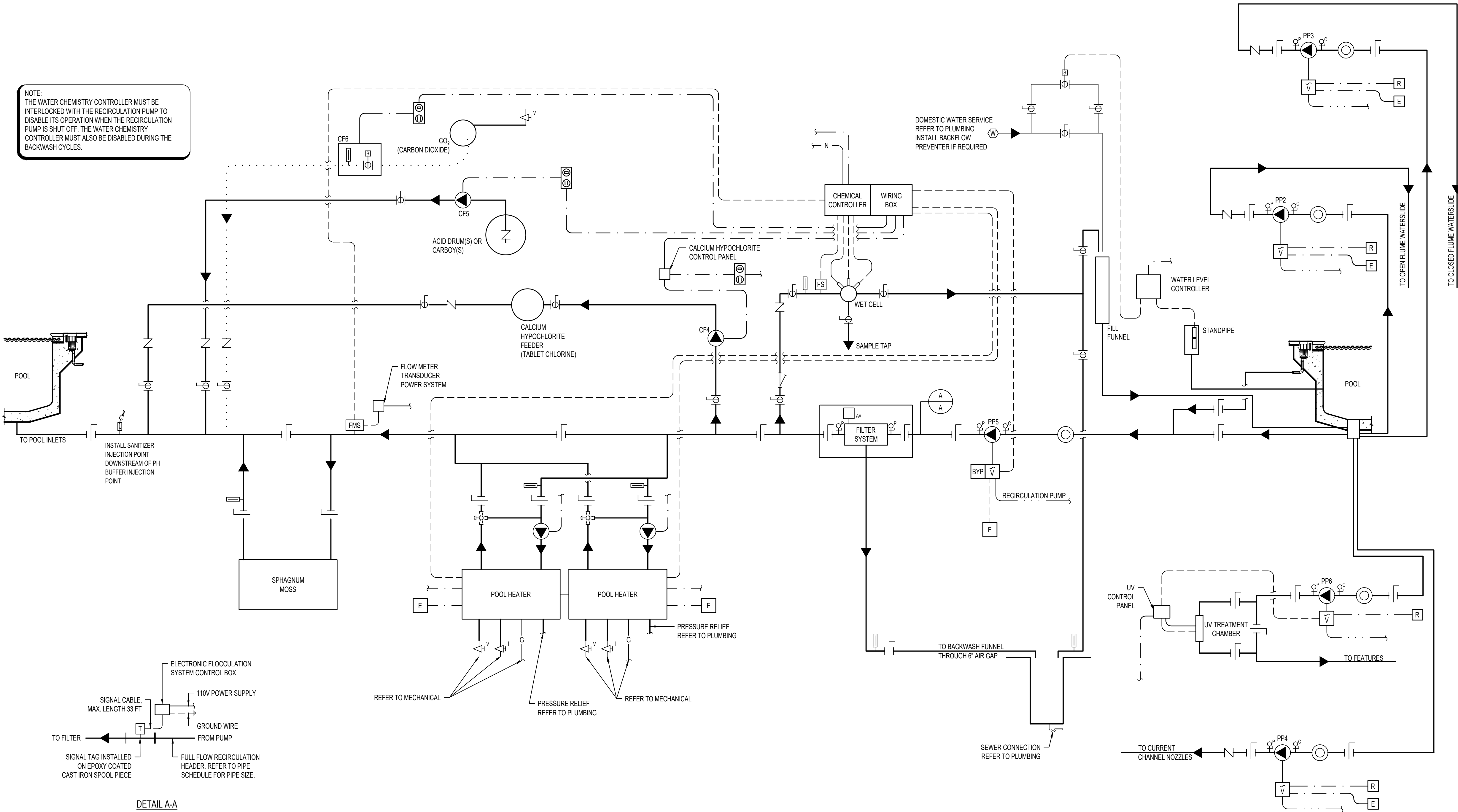
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1 01/22/2024 100% DD

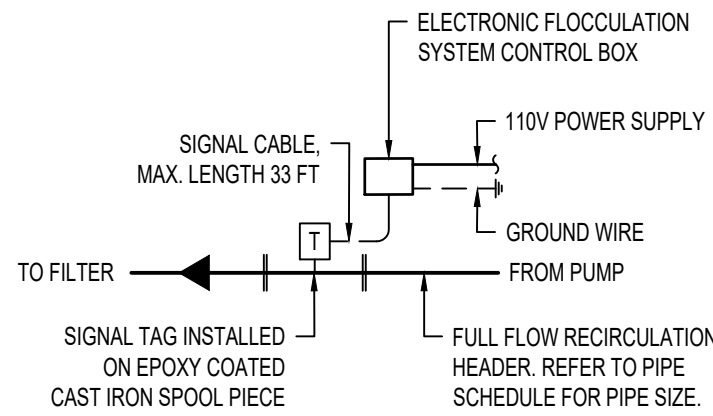
SCALE: AS NOTED
ISSUE DATE: JANUARY 22, 2024
PROJECT #: 23079
TITLE: LAP POOL SYSTEM SCHEMATICS

SHEET #:

AQ600



NOTE:
THE WATER CHEMISTRY CONTROLLER MUST BE
INTERLOCKED WITH THE RECIRCULATION PUMP TO
DISABLE ITS OPERATION WHEN THE RECIRCULATION
PUMP IS SHUT OFF. THE WATER CHEMISTRY
CONTROLLER MUST ALSO BE DISABLED DURING THE
BACKWASH CYCLES.



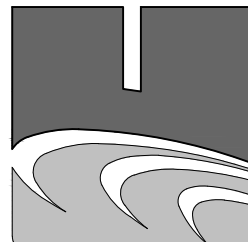
DETAIL A-A

SCHEMATIC LEGEND

LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT VALVE
	SOLENOID VALVE
	CHECK VALVE
	THREE WAY VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
	FLOW METER SENSOR
	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
	WATER METER
	AUTOMATIC AIR VENT
	AIR VENT
	AIR INLET
	PRESSURE GAUGE AND PETCOCK
	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
	AUTOMATIC PUMP SHUT-OFF DEVICE
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP
	EMERGENCY STOP
	VARIABLE FREQUENCY DRIVE BYPASS
	CONTACT MOTOR SELECTOR
	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO2 LINE
	NETWORK LINE BY ELECTRICAL
	GAS LINE



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NOT FOR
CONSTRUCTION

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1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 01/22/2024 100% DD

SCALE: AS NOTED

ISSUE DATE: JANUARY 22, 2024

PROJECT #: 23079

TITLE: RECREATION POOL
SYSTEM SCHEMATICS

SHEET #:

AQ601

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General Structural Notes: Description:			Deflection		Typical Metal Stud Wall Lateral Deflection Metal Stud Wall Lateral Deflection w/ Masonry Veneer Floor Live Load Deflection Roof Live/Snow Load Deflection Total Load Deflection (including Creep) Building Lateral Drift, Service Level Wind Load, 10 yr. MRI Building Lateral Drift, Seismic Load		L/360 L/600 L/600 L/360 L/240 H/400 H/100		4 Epoxy grouted anchors installed in masonry are to be ASTM A307 rods or reinforcing steel installed using HY-270 Adhesive Anchoring System manufactured by Hilti, Inc.. Install in grouted cells only in accordance with ICC Report ESR-4143 or approved update including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.	
Design Criteria: Code Edition:			Geotechnical Design Data		Frost Depth		48 inches		Structural Steel:	
Loads used in design are as follows:			Geo-Technical Information		1 The foundation design was prepared in accordance with the geotechnical supplemental report by Wiss, Janney, Elstner Associates, Inc., dated November 30, 2023, job number 2022.4162.1. Proposed foundation and floor support is on soil improvements designed by others. All compaction grouting shall be designed for a 1 inch maximum settlement and 1/2 inch maximum differential settlement. Slab on grade floors shall be supported on soil improved by compaction grouting. The allowable bearing pressure for the building addition is XXXX psf. Modulus of subgrade reaction used for the pool mat foundation is k = 20 kcf in order to be within 1/2"-1" deflection.				1 Structural steel shall be detailed, fabricated, and erected in accordance with the latest provisions of AISC Manual of Steel Construction.	
Dead Loads			Soil Improvements - Delegated Design:		1 Compaction Grouting Soil improvement methods beneath spread footings and slab on grade floor areas shall be designed and constructed for the bearing pressures indicated. Calculations and shop drawings, shall be signed and sealed by an Engineer registered in the project state experienced in the design and construction of drilled concrete piers. Submit calculations, shop drawings, test results, and material specifications to the Engineer for review.				2 Structural steel rolled shapes shall conform to ASTM A992, Grade 50 for wide flange and channel members, and ASTM A36, Grade 36 for angles and plates. Tube shapes shall conform to ASTM A500 Grade C. Pipe columns shall conform to ASTM A53, Grade B. The latest editions of the requirements shall be used.	
Roof			Reinforcing Steel:		1 All reinforcement detailing, fabrication and placement shall conform to the ACI Details and Detailing of Reinforcement (ACI 315). Unless noted otherwise, all reinforcing bars shall be of deformed bars conforming to ASTM A615, Grade 60. Welded reinforcing bars shall be ASTM A706, Grade 60.				3 All structural bolts used in steel framing shall be ASTM F3125, Grade A325 - N installed to a minimum snug tight condition, unless noted otherwise.	
Metal Roof Deck w/ insulation and membrane roofing Collateral Load			Reinforced Concrete:		1 All structural concrete for the building addition has been designed in accordance with ACI 318. All structural concrete for the pool shell has been designed in accordance with ACI 350. All structural concrete construction work shall conform to ACI 301 and ACI 350 unless noted otherwise.				4 Typical framed beam connections shall be bearing type with 3/4 inch diameter bolts, detailed in conformance with the structural drawings and the AISC Steel Construction Manual unless noted otherwise.	
Self-Weight of Structure + 10 psf			Element:		Minimum Compressive Strength, f _c				5 All welding shall be performed by an AWS qualified welder.	
5 psf			Interior Slabs on Grade:		4500 psi				6 Delay painting within 3" of field welds until welds are completed.	
Live Loads			Pool Shell Walls and Slabs:		5000 psi				Steel Joists - Deferred Submittal:	
Lobbies & 1st Floor Corridors			Concrete exposed to weather and salts:		5000 psi				1 Joists and Joist Girders shall be designed to support the loads as shown. Loading information is provided in the General Notes, in loading diagrams and schedules, and in the sections and details. Design calculations shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.	
Offices			All other cast in place concrete:		4500 psi				2 Cold formed steel framing shall be designed for loads given. Calculations and shop drawings shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.	
Office Area Partition Allowance			3 Structural Normalweight Concrete shall have a maximum in place unit weight of 150 pounds per cubic foot.						2 Cold formed steel framing design and construction shall conform to the AISI S100-16 North American Specification for the Design of Cold-Formed Steel Structural Members.	
Corridors, Stairs, & Exit Ways			4 Concrete coverage for reinforcing steel shall provide the following (minimums unless noted otherwise):						3 Minimum yield strength (F _y) for cold formed steel framing members shall be 33000 psi for 18 Gauge (43mils) and thinner. Minimum yield strength (F _y) shall be 50000 psi for 16 Gauge (54 mils) and thicker.	
Catwalks & Equipment Access Platforms			Uniformed surfaces poured permanently against earth:		3 inches				4 All cold formed steel studs, trusses, track, bridging and accessories shall be formed from steel having a G-60 galvanized coating conforming to ASTM A653 and C955.	
Maintenance & Mechanical Rooms			Formed surfaces exposed to earth or weather:						Steel Deck:	
Computer Rooms			#5 bar or less:		1 1/2 inches				1 Steel roof and floor deck shall be the depth, gauge, and rib type indicated on the plans and fabricated from sheet steel conforming to ASTM A611 or A446 with a minimum yield strength of 50 ksi. If substitutions are desired, contact structural engineer.	
Roofs			#6 bar or greater:		2 inches				2 Decking shall be manufactured and erected in accordance with the standard recommendations of the Steel Deck Institute with welding patterns and details as indicated in the manufacturer's shop drawings. Required diaphragm shear values or connection patterns shall be as indicated on the structural plans.	
Handrails & railing systems			Not exposed to earth, weather, or fluid:						3 Decking shall be finished by phosphatizing and painting with a baked on acrylic primer. Decking used as a concrete form shall be phosphatized but not painted on the side in contact with the concrete.	
Handrails & railing systems			Slabs and walls, interior face:		1 inch				4 Openings larger than 6 inches in diameter shall be approved by the structural engineer prior to being cut in the decking.	
Fall Protection Systems			Beam and columns		1 1/2 inches				5 Welding washers shall be used for decking with a thickness of less than 18 gauge.	
50 plf in any direction			5 Hot and cold weather concreting procedures shall conform to the recommendations in the ACI manual of Concrete Practice.						6 Decking shall be installed in a 3-span condition minimum.	
5000 lb			6 Bolts for beam and column bearing plates shall be set with templates.						General Requirements:	
1.5 x load for the area served, not to exceed 100 psf			7 Contractor shall coordinate all embeds, penetrations, openings, and verify all plan dimensions prior to forming and pouring concrete.						1 Structural erection and bracing: The structural drawings illustrate the completed structure with all elements in their final positions supported and braced. The contractor, in the proper sequence, shall provide shoring and bracing as may be required during construction to achieve the final completed structure. Contact engineer for consultation (not in contract) as required.	
Snow Loads			8 Construction joints shall be laid out to minimize the number of construction joints in each individual structure. Construction joints in walls shall not occur where it would divide additional corner or intersection reinforcement.						2 Shop drawings: Submit shop and erection drawings for all deep foundations and soil improvements, structural steel, structural aluminum, miscellaneous steel, steel joists and girders, steel deck, masonry and concrete reinforcing steel to the engineer to review prior to fabrication. This review is for general compliance with the intent of the structural design. The manufacturing or fabrication of any items prior to written review of the shop drawings will be at the risk of the contractor. The architect and/or contractor are responsible for checking quantities, dimensions and coordination with other trades.	
Ground Snow Load			Grout:						3 Dimensions: Check all dimensions against field and architectural drawings prior to construction. Do not scale drawings.	
Snow Exposure Factor, Ce			1 All grout beneath column base plates and steel beams at bearing shall be non-shrink, non-metallic type grout.						4 Construction practices: The general contractor is responsible for means, methods, techniques, sequences and procedures for construction of this project. Notify structural engineer of omissions or conflicts between the working drawings and existing conditions.	
Snow Load Importance Factor, Is			2 Grout shall have a minimum compressive strength of 5000 psi.						5 Coordinate requirements for mechanical/electrical/plumbing penetrations through structural elements with structural engineer. Prior to installation of such equipment or other items to be attached to the structure, the contractor shall obtain approval for connections and support. Contractor shall furnish required hangers, connections, etc. required for installation of such items, unless specifically noted on plans.	
Typical Roofs Thermal Factor, Ct			Structural Masonry:						6 Jobsite safety is the sole responsibility of the contractor. All methods used for construction shall be in accordance with the latest edition of the IBC.	
Typical Flat Roof Snow Load			1 Masonry design assumptions require that all construction is in accordance with Level B quality assurance requirements of the Building Code Requirements for Masonry Structures, TMS 402/ACI530/ASCE5).						7 The structural engineer may make periodic observation visits to the jobsite for determination of general conformance with the construction documents. Such observation visits shall not replace required inspections by the governing authorities or serve as "special inspections" as may be required by the International Building Code.	
Unheated Roofs Thermal Factor, Ct			2 Load bearing masonry shall be hollow lightweight concrete masonry units conforming to ASTM C90. Exterior walls and walls below grade shall be gradeN-1. Interior walls not exposed to weather or earth may be grade N-1 or S-1. Unit strength shall be 1900 psi.						8 Though every effort has been made to provide a complete and clear set of construction documents, discrepancies or omissions may occur. Release of these drawings anticipates cooperation and continued communication between the contractor, architect and engineer to provide the best possible structure. These drawings have been prepared for the use of a qualified contractor experienced in the construction techniques and systems depicted.	
Unheated Flat Roof Snow Load			3 Mortar shall conform to ASTM C270 and shall be Type S with a minimum cube strength of 2000 psi. Do not use masonry cement or admixtures unless approved by the structural engineer.						Deferred Submittals:	
54 psf			4 Grout shall be coarse grout with a minimum cube strength of 2000 psi. Admixtures shall not be used unless approved by the structural engineer.						1 When received and reviewed by the Engineer of Record, the following submittal items will be submitted to the building official for review and approval:	
See Drift and Sliding Snow Surcharge loading			5 Minimum prism strength of masonry wall assemblies shall be F'm = 2000 psi.						Soil Improvements	
Wind Design Data			6 Unless noted otherwise, conform to the grout space and height limitations set forth in ACI 530.						Structural Steel Connections	
Analysis Procedure			7 Bond Beam units shall be produced from standard vertically voided units with pre-cut knock out cross walls.						Stairs and Railings	
Ultimate Wind Speed, Vult.			8 All masonry shall be laid up in running bond with exposed joints tooled.							
Nominal Wind Speed, Vasd.			9 Use continuous horizontal joint reinforcing in all masonry walls, consisting of 9 gauge side wire welded to 9 gauge ladder type wire. Width of joint reinforcing shall be approximately 2 inches less than width of wall. Provide prefabricated corners and tees. Wire shall conform to ASTM specification A-82. Maximum vertical spacing of joint reinforcing shall be 16 inches.							
Service Level Wind, 10 yr. MRI			10 Provide 1/2 inch clearance or expansion material between masonry and other structural elements, unless noted otherwise.							
Risk Category			11 Vertical control joints shall be provided full height of masonry walls at:							
Wind Exposure			At all changes in wall height.							
Internal Pressure Coefficient			At all changes in wall thickness.							
Exterior Component and Cladding Wind Pressures, (Strength Design Pressures)			At all expansion joints in foundations, floors, and roofs.							
Roof - Flat to 7 degrees			Spaced 1 1/2 times wall height to a maximum of 25 feet.							
zone 1', 1, 2, & 3 roof positive pressure, < 10 sq. ft.			12 Contruct control joints as continuous head joints with mortar raked 3/4 inch at both faces and 50% of the horizontal joint reinforcing cut at the joint. Bond beam reinforcing and grout shall continue through the joint.							
zone 1', 1, 2, & 3 roof positive pressure, > 100 sq. ft.			13 Expansion joints shall be a full structural separation for the full height of the masonry wall.							
zone 1' roof negative pressure, < 100 sq. ft.			14 Masonry walls, including site walls shall have a continuous horizontal bond beam consisting of (2)-#5 bars and solid grout at the top of the wall, roof, or floor elevations, and at 8'-0 maximum vertical spacing.							
zone 1' roof negative pressure, > 1000 sq. ft.			15 Openings in masonry walls shall be reinforced with a #5 bar in a vertical grouted cell each side of openings up to 10'-0 wide. Openings greater than 10' wide shall have 2 vertical grouted cells with #5 reinforcement. Extend reinforcing and grout 2'-6 past opening on all sides.							
zone 1 roof negative pressure, < 10 sq. ft.			Concrete and Masonry Anchors:							
zone 1 roof negative pressure, > 500 sq. ft.			1 Anchor bolts are to be ASTM F1554, Grade 36 headed anchor bolts, unless noted otherwise. Embedment shall be a minimum of 16 times anchor diameter unless noted otherwise.							
zone 2 roof negative pressure, < 10 sq. ft.			2 Expansion Bolts are to be Kwik Bolt TZ manufactured by Hilti, Inc. unless noted otherwise. Install in accordance with ICC Report ESR-917 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.							
zone 2 roof negative pressure, > 500 sq. ft.			3 Epoxy grouted anchors installed in concrete are to be HIT-Z anchor rods or HAS threaded rods or reinforcing steel installed using HY-200 Adhesive Anchoring System manufactured by Hilti, Inc. Install in accordance with ICC Report ESR-3187 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.							
zone 3 roof negative pressure, < 10 sq. ft.										
zone 3 roof negative pressure, > 500 sq. ft.										
overhang, zone 1 & 1' < 10 sq. ft.										
overhang, zone 1 & 1', >100 sq. ft.										
overhang, zone 1 & 1', >500 sq. ft.										
overhang, zone 2 < 10 sq. ft.										
overhang, zone 2, >500 sq. ft.										
overhang, zone 3 < 10 sq. ft.										
overhang, zone 3, >500 sq. ft.										
Walls < 60 feet										
zone 4 wall, <10 sq. ft.										
zone 4 wall, >500 sq. ft.										
zone 5 wall, <10 sq. ft.										
zone 5 wall, >500 sq. ft.										
Seismic Design Data										
Analysis Procedure			ASCE7 Equivalent Lateral Force Procedure							
Ss			0.348							
S1			0.08							
Site Class			C							
Sds			0.302							
Sd1			0.08							
Risk Category			II							
Seismic Importance Factor			1.00							
Seismic Design Category			B							
Seismic Force Resisting System(s)										
Horizontal and Vertical Combinations of Intermediate Reinforced Masonry Shear Walls and Steel Not Specifically detailed for Seismic Resistance. Designed to Requirements for Lowest R Value System										
Design Base Shear			Building: XXX kips							
Seismic Response Coefficient, Cs			XXX							
Response Modification Coefficients, R										
INT. REINFORCED MASONRY SHEAR WALLS			4							
STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE			3							
LOWEST R VALUE USED FOR DESIGN =			3							
Floor Vibration										
Design Guideline			AISC Design Guide 11							

STATEMENT OF SPECIAL INSPECTIONS

This Statement of Special Inspections is prepared in accordance with the 2021 International Building Code Section 1705. It is limited to structural elements and does not include requirements for architectural components, Plumbing, Mechanical, and Electrical Components, fire resistant materials, insulation systems and smoke control systems as outlined in IBC Sections 1705.13.5, 1705.13.6, 1705.15, 1705.17, and 1705.19. Additional Statements may be required from other Design Professionals.

Sections noted shall be inspected or tested in accordance with the referenced standards or IBC reference. See IBC for appropriate references.

Inspections and testing shall be performed by the Jurisdiction Building Official or by an approved agency engaged by the Design-Build Team and recognized and approved by the Engineer of Record and the Building Official in accordance with IBC Section 1704.

The quality assurance program and special inspection requirements for Structural Masonry construction shall comply with Section 1705.4 of the IBC and the requirements for Level B quality assurance of the Building Code Requirements for Masonry Structures, TMS 402-16, and Specification for Masonry Structures, TMS 602-16.					
Table 3.1 - Minimum Quality Assurance Level					
Designed in accordance with		Risk Category I, II, or III		Risk Category IV	
Part 3 or Appendix B or Appendix C		Level 2		Level 3	
Part 4		Level 1		Level 2	
Appendix A		Level 1		Not permitted	
Table 3 - Minimum Verification Requirements					
Minimum Verification	Required for Quality Assurance (a)			Reference for Criteria	
	Level 1	Level 2	Level 3	TMS 602	
Prior to construction, verification of compliance of submittals.	R	R	R	Art. 1.5	
Prior to construction, verification of f_m and f_{AAC} , except where specifically exempted by the Code.	NR	R	R	Art. 1.4 B	
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	NR	R	R	Art. 1.5 & 1.6.3	
During construction, verification of f_m and f_{AAC} for every 5,000 sq. ft. (465 sq. m).	NR	NR	R	Art. 1.4 B	
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	NR	NR	R	Art. 1.4 B	
(a) R= Required, NR= Not Required					
MINIMUM SPECIAL INSPECTION FOR MASONRY CONSTRUCTION					
Inspection Task	Frequency (a)			Reference for Criteria	
	Level 1	Level 2	Level 3	TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance:					
a. Proportions of site-prepared mortar	NR	P	P		Art. 2.1, 2.6 A, & 2.6 C
b. Grade and size of prestressing tendons and anchorages	NR	P	P		Art. 2.4 B, & 2.4 H
c. Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	NR	P	P		Art. 3.4 & 3.6 A
d. Prestressing technique	NR	P	P		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	NR	C ^(b) /P ^(c)	C		Art. 2.1 C.1
f. Sample panel construction	NR	P	C		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	NR	P	C		Art. 3.2 D, 3.2 F
b. Placement of prestressing tendons and anchorages	NR	P	P		Art. 2.4, & 3.6
c. Placement of reinforcement, connectors, and anchor bolts	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6, 6.3.7	Art. 3.2 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	P	P		Art. 2.6 B & 2.4 G.1.b
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	NR	P	P		Art. 1.5
b. Placement of masonry units and mortar joint construction	NR	P	P		Art. 3.3 B
c. Size and location of structural members	NR	P	P		Art. 3.3 F
d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	
e. Welding of reinforcement	NR	C	C	Sec. 6.1.6.1.2	
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32°C))	NR	P	P		Art. 1.8 C & 1.8 D
g. Application and measurement of prestressing force	NR	C	C		Art. 3.6 B
h. Placement of grout and prestressing grout for bonded tendons is in compliance	NR	C	C		Art. 3.5 & 3.6 C
i. Placement of AAC masonry units and construction of thin-bed mortar joints	NR	C ^(b) /P ^(c)	C		Art. 3.3 B.9 & 3.3 F.1.b
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	NR	P	C		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4
(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table. NR= Not Required, P= Periodic, C= Continuous					
(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.					
(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.					

REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
1. Installation of open-web steel joists and joist girders			
a. End connections - welding or bolted	-	X	SJI Specifications listed in Section 2207.1
b. Bridging - horizontal or diagonal	-	-	-
1. Standard bridging	-	X	SJI Specifications listed in Section 2207.1
2. Bridging that differs from the SJI specifications listed in Section 2207.1	-	X	-

For SI: 1 inch = 25.4 mm

a. Where applicable, see also Section 1705.13, Special Inspections for seismic resistance.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	REFERENCED STANDARDa	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	—
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706				
b. Inspect single-pass fillet welds, maximum 5/16"; and	—	X	AWS D1.4 ACI 318: 26.6.4	—
c. Inspect all other welds	X	X		
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—
4. Inspect anchors post-installed in hardened concrete members.				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—	ACI 318: 17.8.2.4	—
b. Mechanical anchors and adhesive anchors not defined in 4.a	—	X	ACI 318: 17.8.2	
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	—
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5	—
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5	—
9. Inspect prestressed concrete for:				
a. Application of prestressing forces; and	X	—	ACI 318: 26.10	—
b. Grouting of bonded prestressing tendons.	X	—		
10. Inspect erection of precast concrete members.	—	X	ACI 318: Ch. 26.9	—
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:				
a. Installation of the embedded parts	X	—	ACI 318: 26.13.1.3 ACI 550.5	—
b. Completion of the continuity of reinforcement across joints.	X	—		
c. Completion of connections in the field.	X	—		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	—	X	ACI 318: 26.13.1.3	—
13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b)	—

For SI: 1 inch = 25.4 mm
a. Where applicable, see also Section 1705.13, Special Inspections for seismic resistance.
b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED QUALITY CONTROL AND QUALITY ASSURANCE INSPECTIONS OF HIGH STRENGTH BOLTING		
Quality Control Inspections shall be performed by the fabricator's or erector's Quality Control Inspector. Quality Assurance Inspections and nondestructive testing of structural steel elements in buildings, structures, and portions thereof shall be in accordance with the quality assurance inspection requirements of AISC 360. Observation of bolting operations shall be the primary method used to confirm that the materials, procedures and workmanship incorporated in construction are in conformance with the construction documents and provisions of the RCSC Specification. (1) For snug-tight joints, pre-installation verification testing and monitoring of the installation procedures are not applicable. (2) For pretensioned joints and slip-critical joints, when the installer is using the turn-of-the-method with matchmarking techniques, the direct tension indicator method, or the twist off type tension control bolt method, QC and QA inspectors need not be present during installation. (3) For pretensioned and slip-critical joints, when the installer is using the calibrated wrench method, or turn-of-the-nut method without matchmarking, QC and QA inspectors shall be engaged in their assigned inspection duties during installation of fasteners. As a minimum, bolting inspection tasks shall be in accordance with the following tables: In these tables, the inspection tasks are as follows: O - Observe these items on a random basis. Operations need not be delayed pending these inspections. P - Perform these tasks for each welded joint or member.		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Proper bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.	O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.	P	O
Proper storage provided for bolts, nuts, washers, and other fastener components.	O	O
INSPECTION TASKS DURING BOLTING	QC	QA
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required.	O	O
Joint brought to the snug-tight condition prior to the pretensioning operation.	O	O
Fastener component not turned by the wrench prevented from rotating.	O	O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges.	O	O
INSPECTION TASKS AFTER BOLTING	QC	QA
Document acceptance or rejection of bolted connections	P	P

REQUIRED QUALITY CONTROL AND QUALITY ASSURANCE INSPECTIONS OF WELDED STEEL CONSTRUCTION		
Quality Control Inspections shall be performed by the fabricator's or erector's Quality Control Inspector. Quality Assurance Inspections and nondestructive testing of structural steel elements in buildings, structures, and portions thereof shall be in accordance with the quality assurance inspection requirements of AISC 360. Observation of Welding operations and visual inspection of in-process and completed welds shall be the primary method to confirm that the materials, procedures and workmanship are in conformance with the construction documents. As a minimum welding inspection tasks shall be in accordance with the following tables. In these tables, the inspection tasks are as follows: O - Observe these items on a random basis. Operations need not be delayed pending these inspections. P - Perform these tasks for each welded joint or member.		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
Welder qualification records and continuity records	P	O
Welding procedure specifications (WPS) available	P	P
Manufacturer certifications for welding consumables available.	P	P
Material identification (type/grade)	O	O
Welder identification system [a]	O	O
Fit-up of groove welds (including joint geometry) • Joint preparations • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)	O	O
Fit-up of CJP groove welds of HSS T-, Y- and K- joints without backing (including joint geometry) • Joint preparations • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	P	O
Configuration and finish of access holes	O	O
Fit-up of fillet welds • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	O	O
Check welding equipment	O	-
[a] The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.		
INSPECTION TASKS DURING WELDING	QC	QA
Control and handling of welding consumables • Packaging • Exposure control	O	O
No welding over cracked tack welds	O	O
Environmental Conditions • Wind speed within limits • Precipitation and temperature	O	O
WPS followed • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min./max.) • Proper position (F, V, H, OH)	O	O
Welding techniques • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements	O	O
Placement and installation of steel headed stud anchors	P	P
INSPECTION TASKS AFTER WELDING	QC	QA
Welds cleaned	O	O
Size, length and location of welds	P	P
Welds meet visual acceptance criteria • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	P	P
Arc strikes	P	P
k-area [a]	P	P
Weld access holes in rolled heavy shapes and built-up heavy shapes [b]	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member	P	P
No prohibited welds have been added without the approval of the EOR	O	O
[a] When welding of doubler plates, continuity plates or stiffeners have been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.		
[b] After rolled heavy shapes (see Section A3.1c) and built-up heavy shapes (see Section A3.1d) are welded, visually inspect the weld access hole for cracks.		

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T: 303.294.9244
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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: 12" = 1'-0"

ISSUE DATE: 01/22/2024

PROJECT #: 2023-493.001

TITLE: **SPECIAL INSPECTIONS**

SHEET #3

S-002

SYMBOLS LEGEND

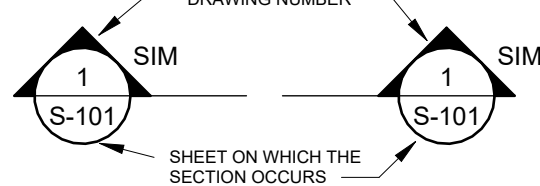
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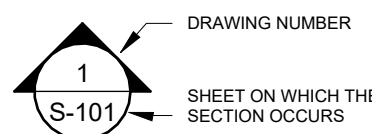
ELEVATION MARK



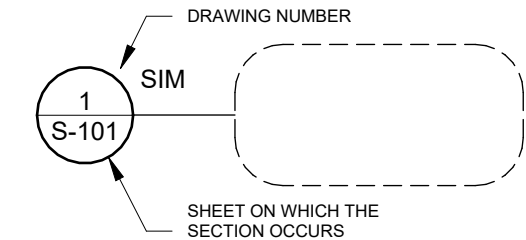
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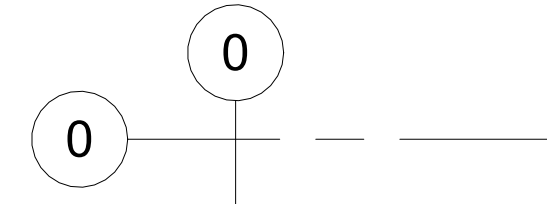
ELEVATION VIEW LABEL



DETAIL



STRUCTURAL GRID LINE



STEP INDICATOR SYMBOLS



SLOPE INDICATOR SYMBOLS



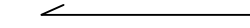
BEAM POCKET



BEAM HANGER



JOIST OR RAFTER BEARING



FULL MOMENT CONNECTION



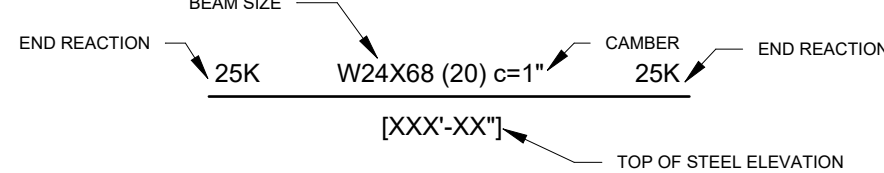
MOMENT CONNECTION



AXIAL DRAG CONNECTION



STEEL BEAM ANNOTATION



BRACED FRAME



MATERIALS LEGEND

	CONCRETE - CAST-IN-PLACE
	CLAY MASONRY / BRICK
	CONCRETE MASONRY UNIT
	STEEL
	DIMENSIONED LUMBER
	WOOD BLOCKING
	PLYWOOD
	NATIVE EARTH
	COMPACTED EARTH
	GRAVEL
	SAND / GRANULAR FILL
	GYPSUM WALL BOARD

ABBREVIATIONS

AB ANCHOR BOLT AFF ABOVE FINISHED FLOOR ALT ALTERNATIVE / ALTERNATE ANCH ANCHOR ARCH ARCHITECT EA AT	NA NOT APPLICABLE NIC NOT IN CONTRACT NOM NOMINAL NTS NOT TO SCALE NW NORMAL WEIGHT
B BOTTOM OF BF BOTTOM OF FOOTING BLDG BUILDING BM BEAM BOT BOTTOM BRG BEARING BW BOTTOM OF WALL	OAE OR APPROVED EQUAL OC ON CENTER(S) OD OUTSIDE DIAMETER OH OVERHEAD / OVERHANG OPNG OPENING OPP OPPOSITE OSB ORIENTED STRAND BOARD OSL ORIENTED STRAND LUMBER OVS OVERSIZED HOLE
C STEEL CHANNEL CANT CANTILEVER CF COLD FORMED CIP CAST IN PLACE CJ CONTROL JOINT CJP COMPLETE JOINT PENETRATION CL CENTER LINE CLR CLEAR(ANCE) CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONT CONTINUOUS / CONTINUE	(P) PRO PROPOSED P AXIAL LOAD PAF POWDER ACTUATED FASTENER PARTBD PARTICLEBOARD PC PRECAST PEMB PRE-ENGINEERED METAL BUILDING PL PLATE PLF POUNDS PER LINEAL FOOT PLY PLYWOOD PRELIM PRELIMINARY PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PT PRESSURE TREATED PT POST TENSION (ED)
DET DETAIL DIA DIAMETER DIM DIMENSION	QTY QUANTITY
(E) / EXIST EXISTING EA EACH EJ EXPANSION JOINT EMBED EMBEDMENT ENGR ENGINEER EO EDGE OF EQ EQUAL ES EACH SIDE EW EACH WAY EXP EXPANSION EXT EXTERIOR	R REACTION RAD RADIUS RD ROOF DRAIN REF REFERENCE / REFER TO REINF REINFORCE / REINFORCING REQD REQUIRED RO ROUGH OPENING RTU ROOF TOP UNIT
(F) FUT FUTURE F'c 28 DAY CONCRETE STRENGTH FD FLOOR DRAIN FDN FOUNDATION FF / FFE FINISH FLOOR (ELEVATION) FOEW FACE OF EXISTING WALL FOS FACE OF STUD FRP FIBER REINFORCED PANEL FT FOOT FTG FOOTING Fv SHEAR STRENGTH Fy YIELD STRENGTH	SF SQUARE FOOT/FEET SIM SIMILAR SLBB SHORT LEG BACK TO BACK SPEC SPECIFICATION (S) SS STAINLESS STEEL SSLP SHORT SLOTTED HOLE PARALLEL SSLT SHORT SLOTTED HOLE TRANSVERSE STD STANDARD STL STEEL STRUCT STRUCTURE / STRUCTURAL SUSP SUSPENDED SYST SYSTEM
GA GAUGE GALV GALVANIZED GB GYPSUM BOARD GC GENERAL CONTRACTOR GL GLU-LAM LUMBER GWB GYPSUM WALL BOARD GYP GYPSUM	T TOP OF: DECK, CONCRETE, BEAM, PARAPET, STEEL, WALL T&B TOP AND BOTTOM T&G TONGUE AND GROOVE TOW TOP OF WALL TRANS TRANSVERSE TYP TYPICAL
HAS HEADED ANCHOR STUD HGR HANGER HOOK STANDARD REINFORCING HOOK HORIZ HORIZONTAL HSS HOLLOW STEEL SECTION HT HEAVY TIMBER	UNO UNLESS NOTED OTHERWISE
ID INSIDE DIAMETER INSUL INSULATION INT INTERIOR	V SHEAR LOAD VERT VERTICAL VIF VERIFY IN FIELD VNR VENEER
KLF KIPS PER LINEAL FOOT KSF KIPS PER SQUARE FOOT KSI KIPS PER QUARE INCH	W WIDE FLANGE WASH. WASHER WCV WALL COVERING WD WOOD WD BLK WOOD BLOCKING WDB WOOD BASE WDF WOOD FLOORING WDT WOOD TRIM WDV WOOD VENEER WDW WINDOW
L ANGLE LAP LAP SPLICE Ld DEVELOPMENT LENGTH LLBB LONG LEG BACK TO BACK LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LONG LONGITUDINAL LSL LAMINATED STRAND LUMBER LSLP LONG SLOTTED HOLE PARALLEL LSLT LONG SLOTTED HOLE TRANSVERSE LVL LAMINATED VENEER LUMBER LW LIGHTWEIGHT	WF WIDE FLANGE WP WORK POINT WPT WALL PROTECTION WT WINDOW TREATMENT WT STEEL TEE SECTION WWR WELDED WIRE REINFORCING
M MOMENT MAS MASONRY MATL MATERIAL MAX MAXIMUM MECH MECHANICAL MFD MANUFACTURED MIN MINIMUM MIR MIRROR(ED) MTL METAL	XPS EXTRUDED POLYSTYRENE
	# NUMBER / POUND & AND @ AT



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: 12" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: SYMBOLS AND ANNOTATIONS

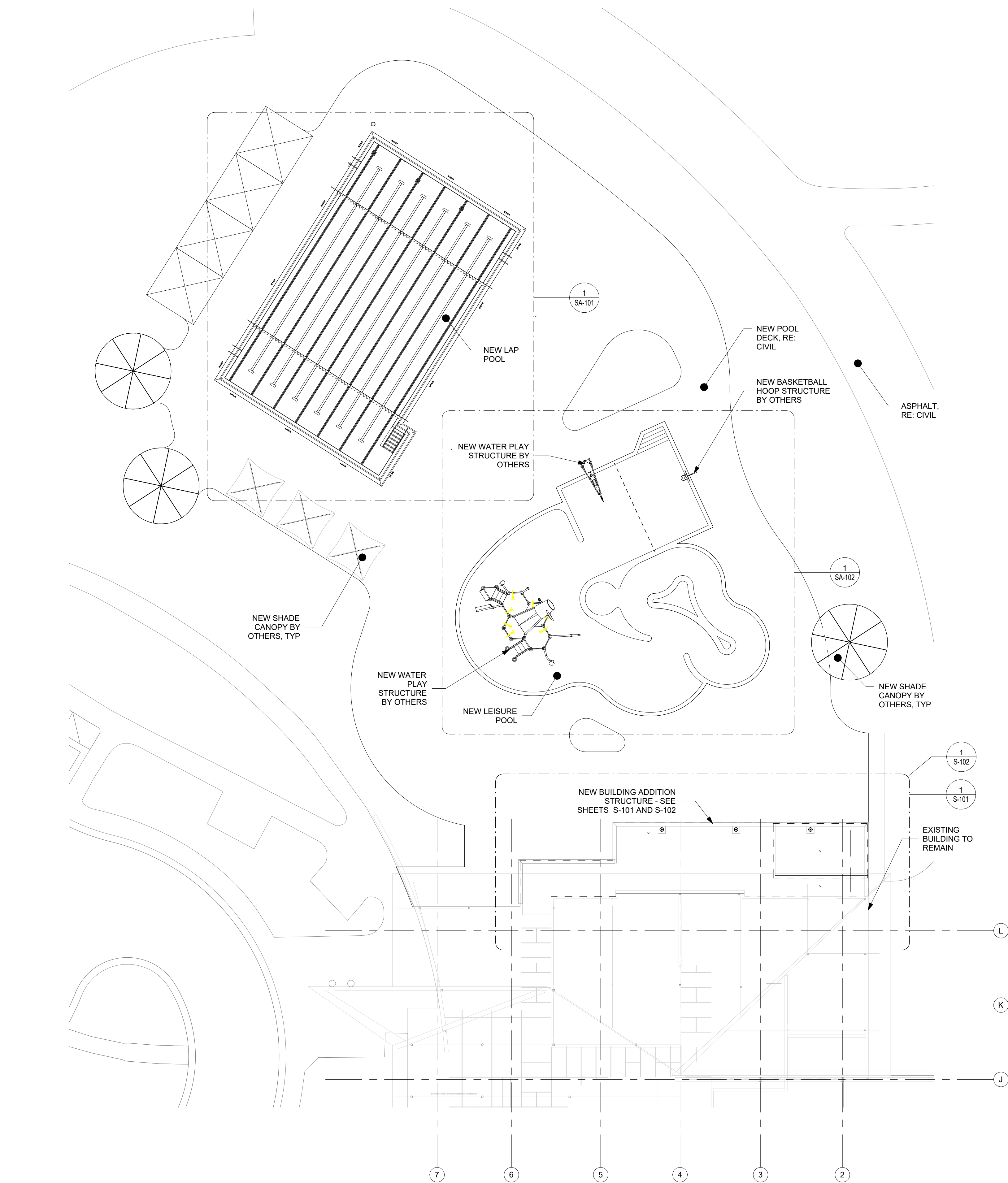
SHEET #:

S-003

Mountain Recreation Eagle Pool
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[illegible]

SHEET #:
S-100



1 STRUCTURAL SITE PLAN
S-100 1/16" = 1'-0"



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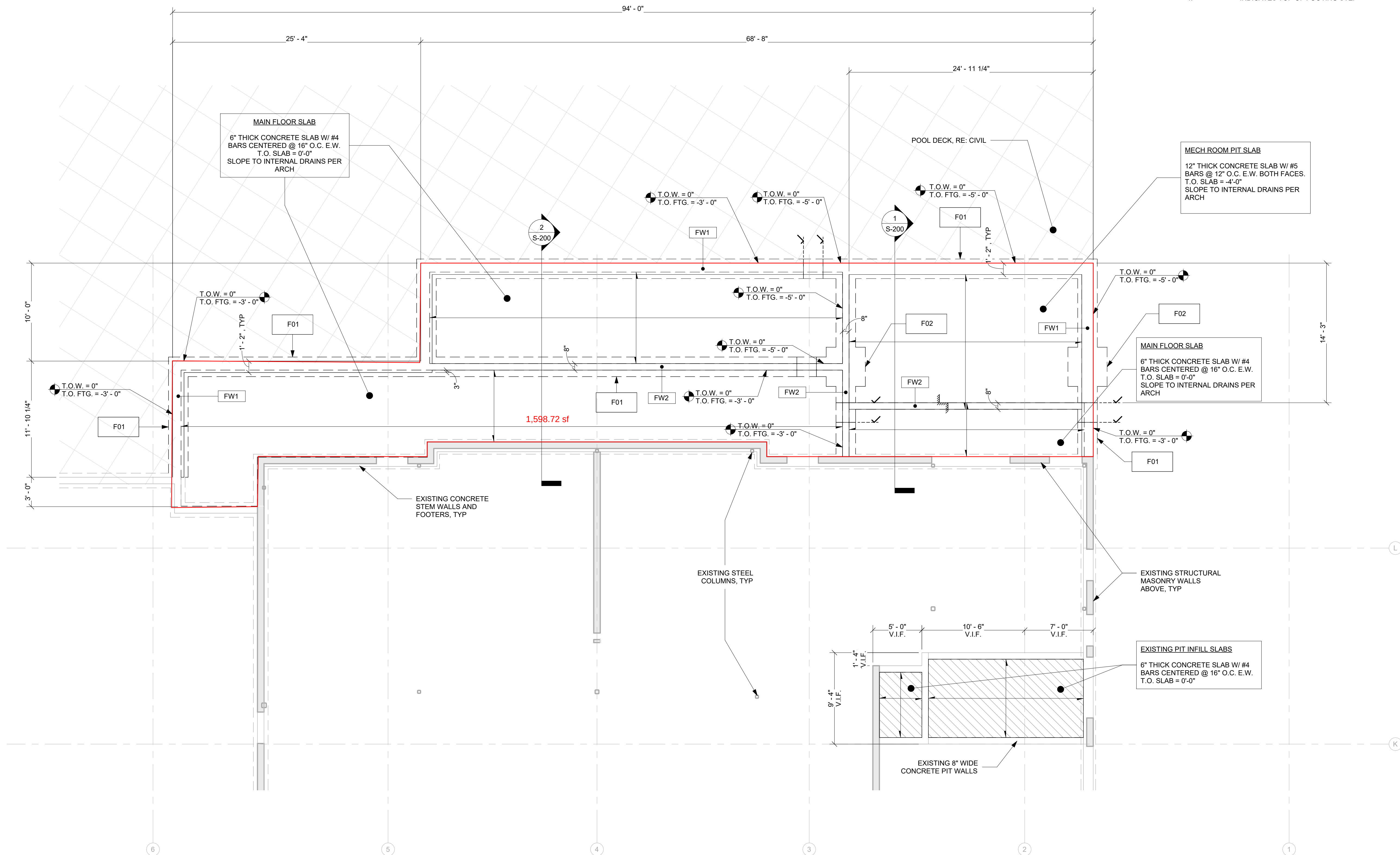
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NO. DATE: TITLE/PURPOSE:

SCALE: As indicated
 ISSUE DATE: 01/22/2024
 PROJECT #: 2023-493.001
 TITLE: FOUNDATION PLAN

SHEET #:

S-101



1 FOUNDATION PLAN

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Mountain Recreation Eagle Pool
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NO. DATE: TITLE/PURPOSE:

SCALE: As indicated
 ISSUE DATE: 01/22/2024
 PROJECT #: 2023-493.001
 TITLE: ROOF FRAMING PLAN

SHEET #:

S-102

Page 69 of 221

DECKING AND DIAPHRAGM NOTES & KEY:

1. ROOF DECKING TO BE 3" X 18 GAUGE TYPE N GALVANIZED METAL ROOF DECK. ALL PANEL ENDS TO BE LAPPED AT SUPPORTS, BUTTED ENDS NOT PERMITTED.

: INDICATES TYPE 1 ROOF DIAPHRAGM. FASTEN WITH 5/8" DIAMETER SPOT WELDS IN A 36/7 PATTERN TO ALL SUPPORTS AND AT PERIMETER. FASTEN SIDELAPS WITH (7)-#12 SCREWS PER SPAN.

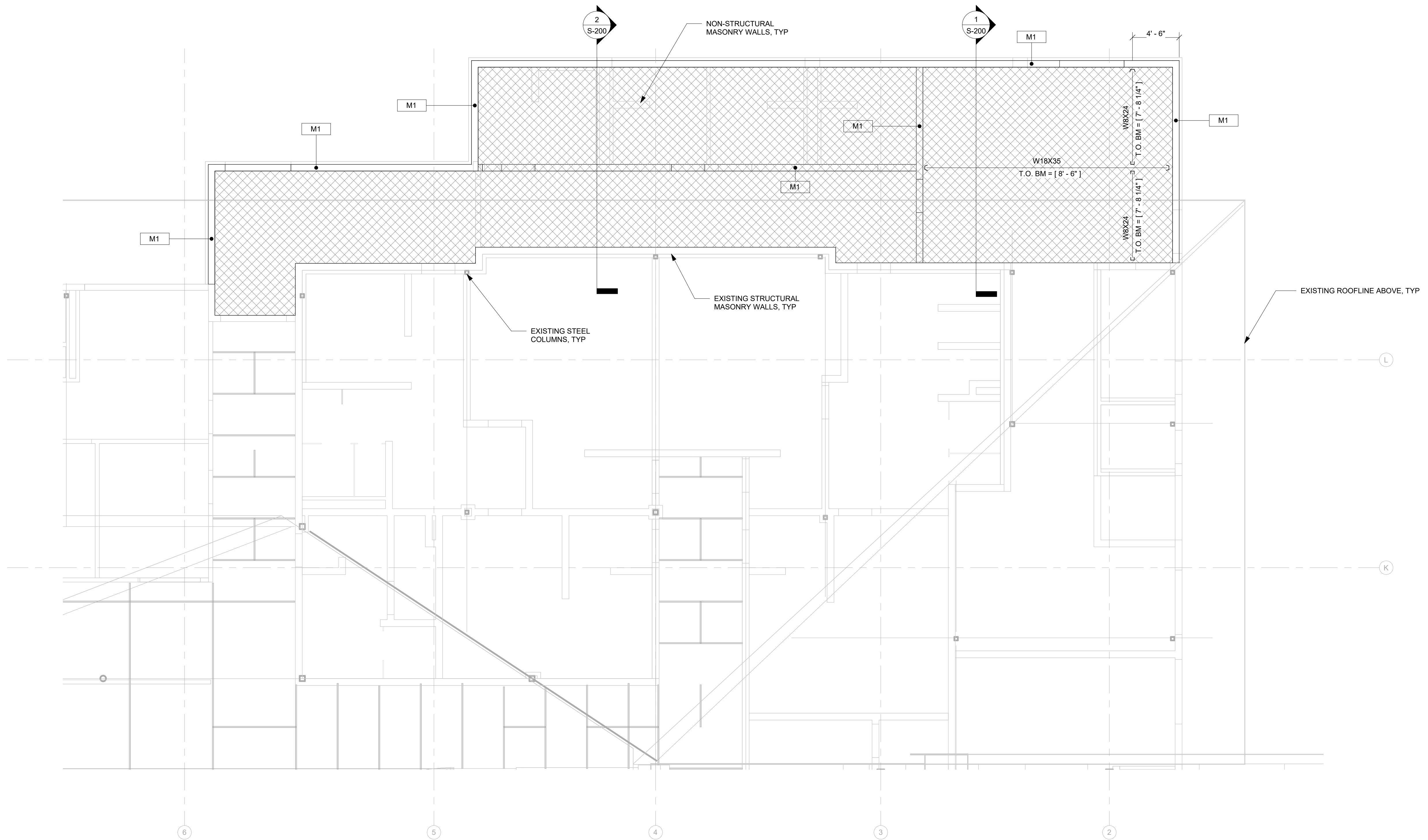
FRAMING PLAN NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

2. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

3. INDICATES MASONRY WALL MARK #. SEE MASONRY WALL SCHEDULE.

4.  INDICATES TOP OF WALL STEP

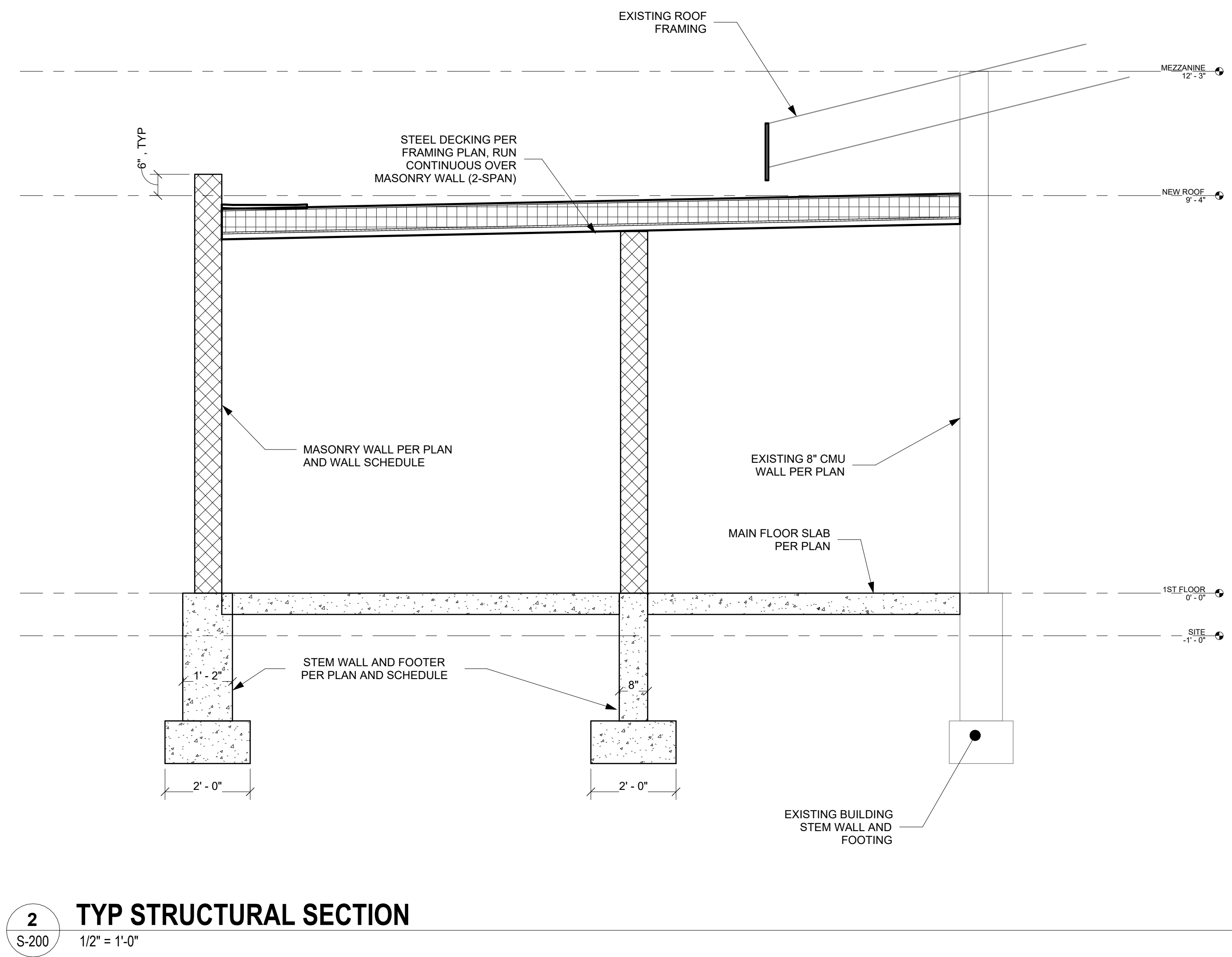
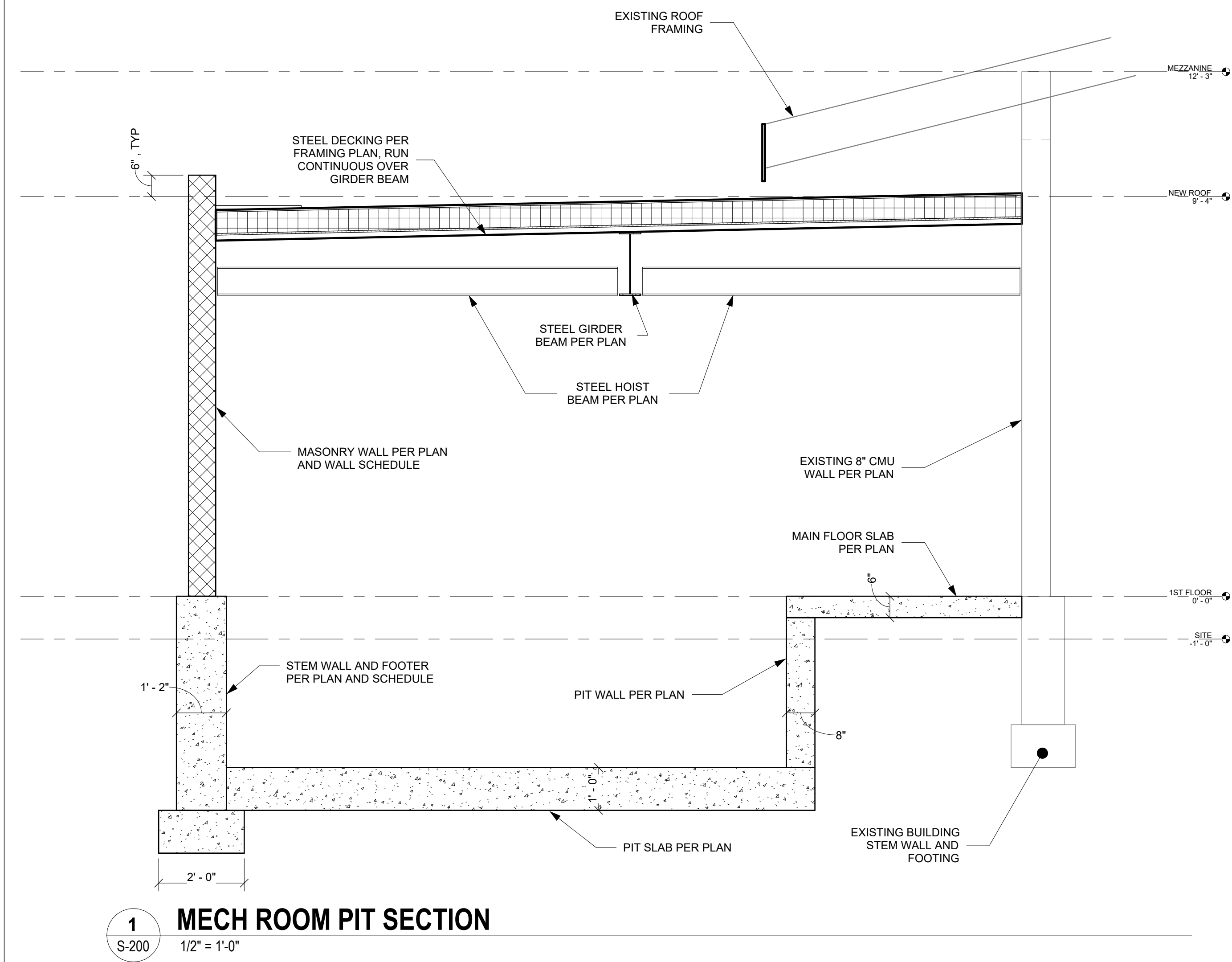


1 ROOF FRAMING PLAN

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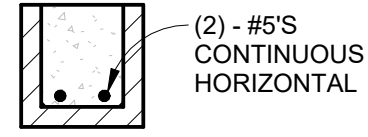
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ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: STRUCTURAL SECTIONS

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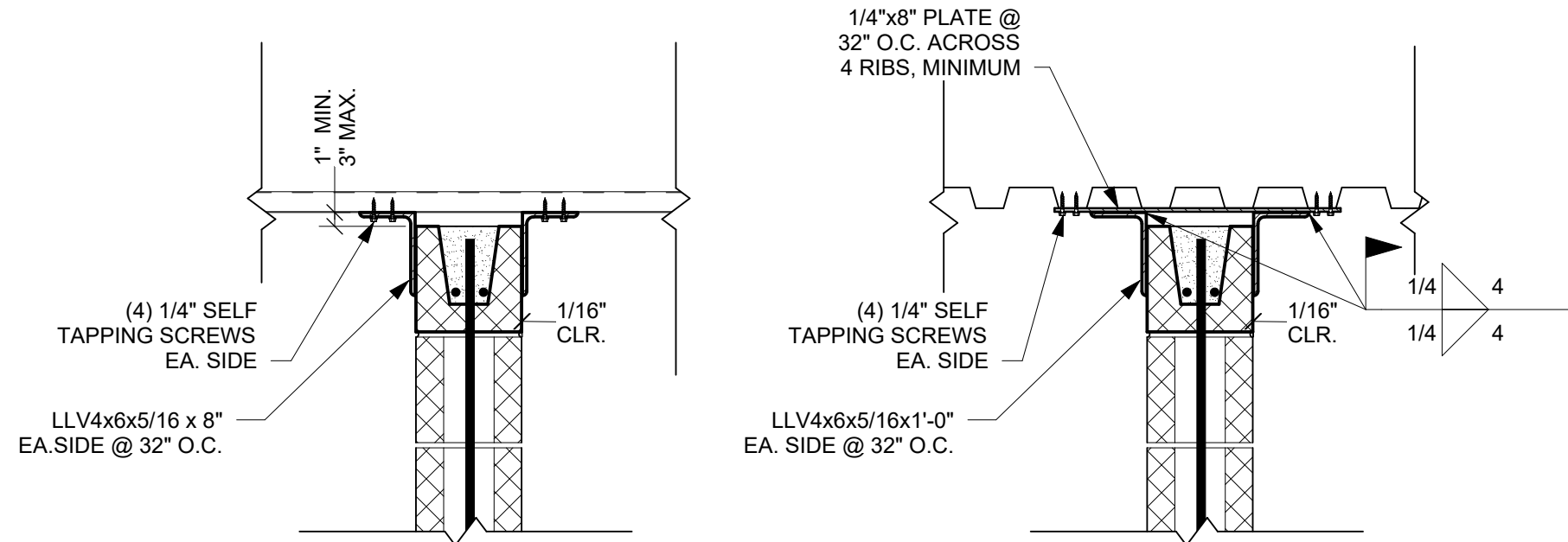
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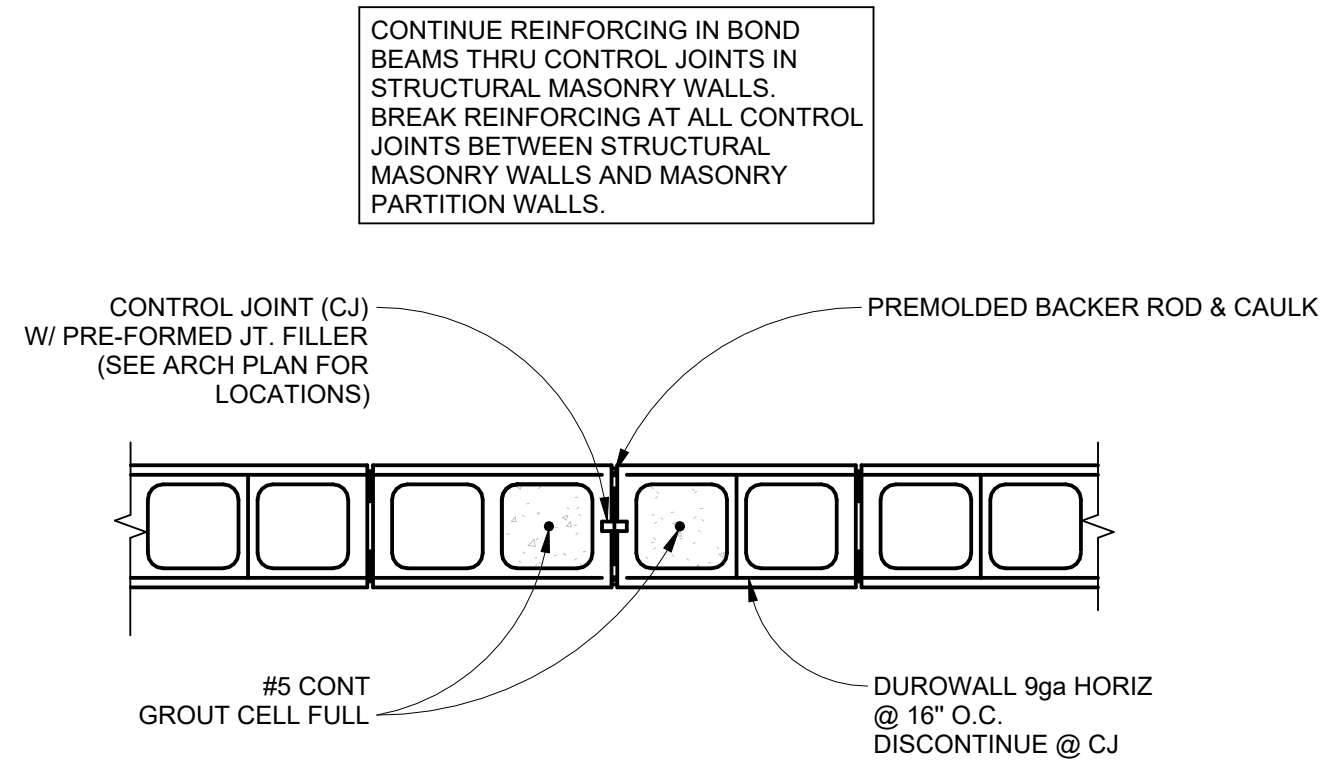
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S-401
1" = 1'-0"

TYPICAL CMU BOND BEAM



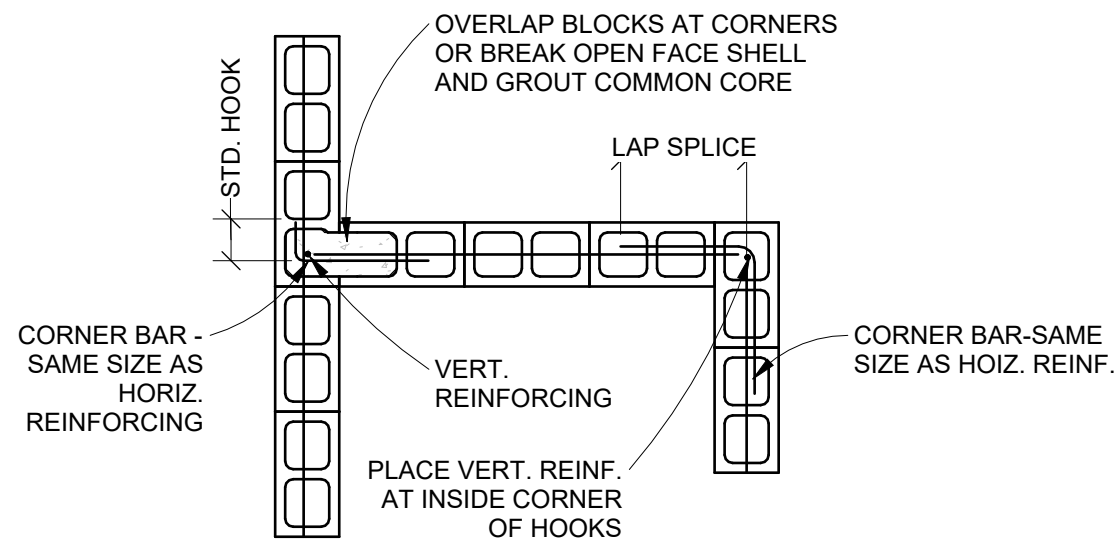
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S-401
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TYPICAL CMU BRACING AT TOP OF PARTITION WALLS



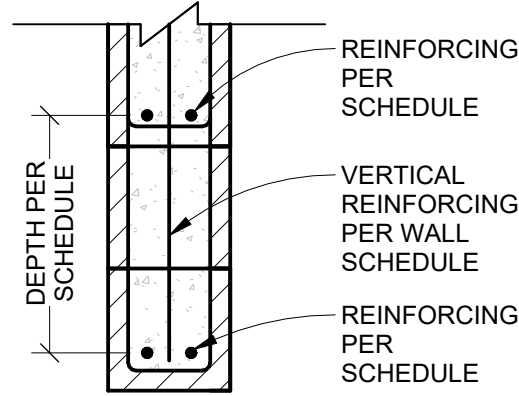
3
S-401
1" = 1'-0"

TYPICAL CMU CONTROL JOINT



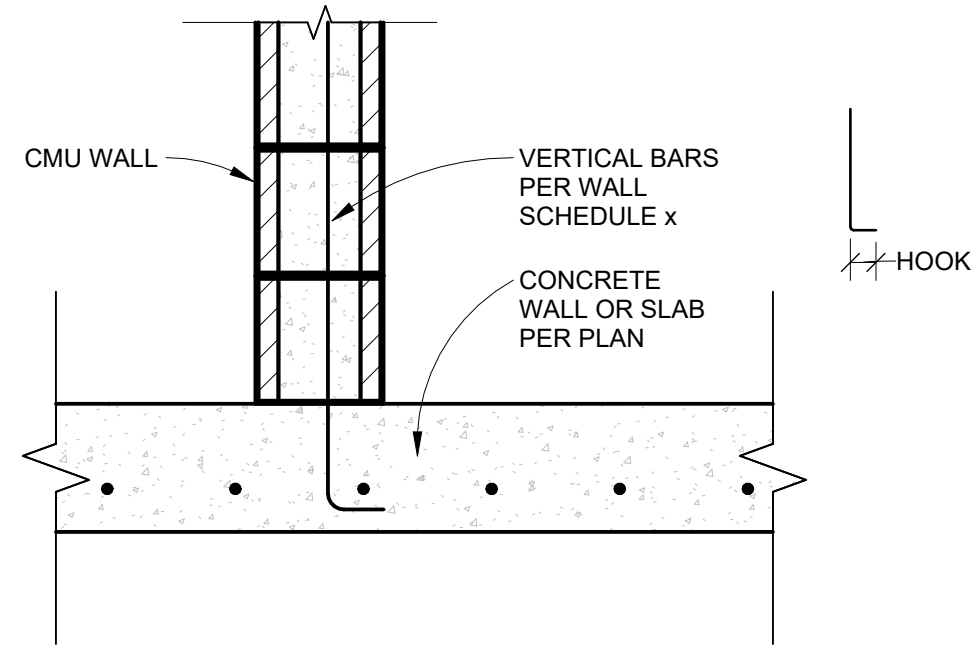
4
S-401
1/2" = 1'-0"

TYPICAL CMU WALL CORNER REINFORCING



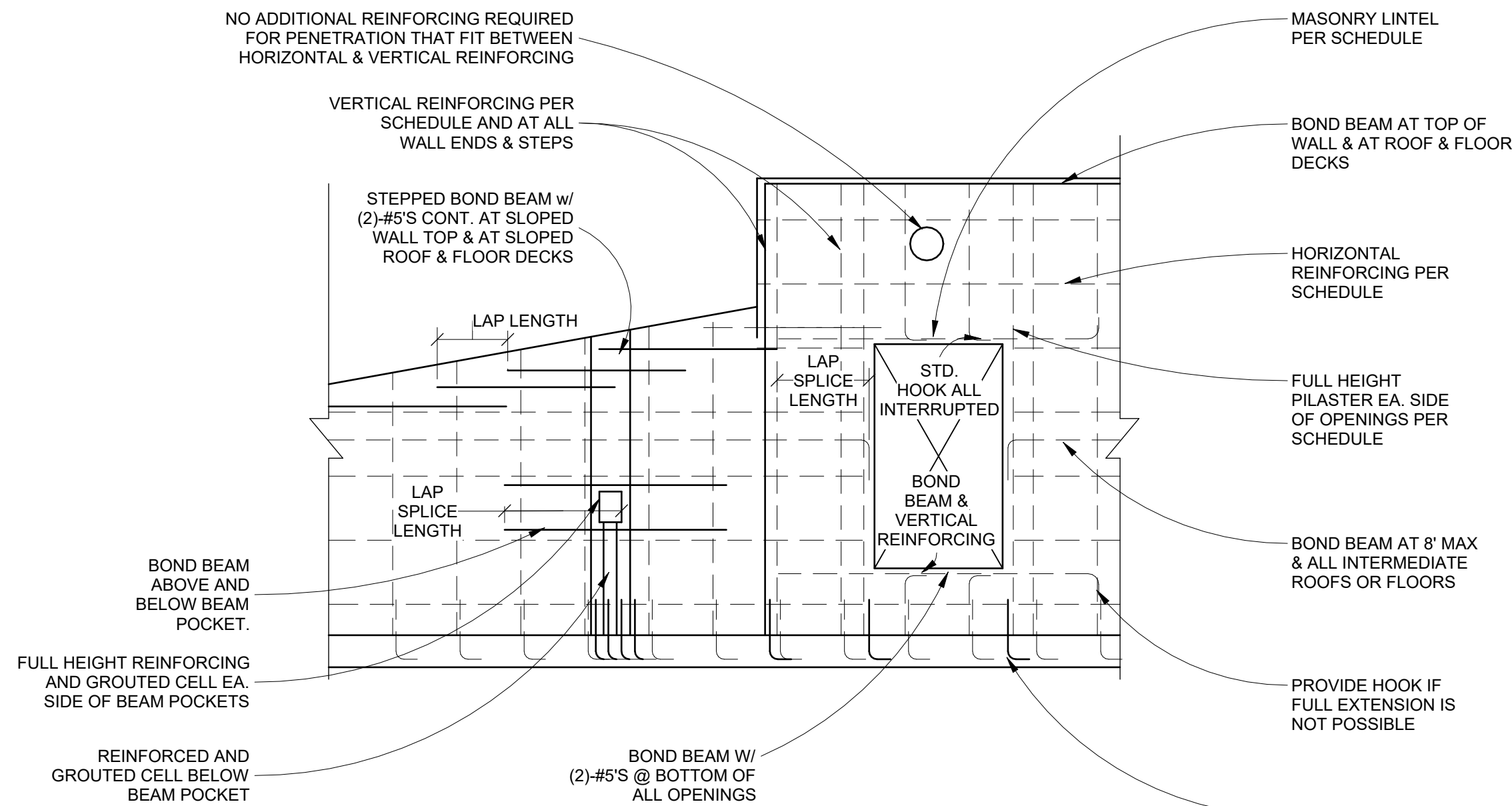
5
S-401
1" = 1'-0"

TYPICAL MASONRY LINTEL



6
S-401
1" = 1'-0"

TYPICAL MASONRY WALL TO CONCRETE CONNECTION



7
S-401
1/4" = 1'-0"

MASONRY WALL SCHEDULE

MASONRY LINTEL SCHEDULE			
OPENING WIDTH	LINTEL DEPTH	REINFORCEMENT	PIER
0 TO 4' - 0"	1' - 4"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
4' - 1" TO 8' - 0"	2' - 0"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
8' - 1" TO 12' - 0"	2' - 8"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
12' - 1" TO 16' - 0"	4' - 0"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
16' - 1" TO 20' - 0"	5' - 4"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING

REINFORCING SPLICE TABLE (F'm = 2000 PSI, Fy=60 KSI, BAR COVER = 1 1/2 IN. MIN.)		
BAR SIZE	DIAMETER (db) (INCHES)	LAP SPLICE LENGTH (INCHES)
3	0.375	16
4	0.5	29
5	0.625	45
6	0.75	85
7	0.875	116
8	1	174
9	1.125	221

MASONRY WALL SCHEDULE			
WALL TAG	MASONRY WALL SIZE	MINIMUM VERTICAL REINFORCING	HORIZONTAL REINFORCING
M1	8" CMU	#5's @ 32" O.C.	9 GAUGE LADDER TYPE JOINT REINFORCEMENT @ 16" O.C.



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

SCALE: As indicated
ISSUE DATE: 01/22/2024
PROJECT #: 2023-493.001
TITLE: TYPICAL CMU DETAILS

SHEET #:

S-401

**NOT FOR
CONSTRUCTION**

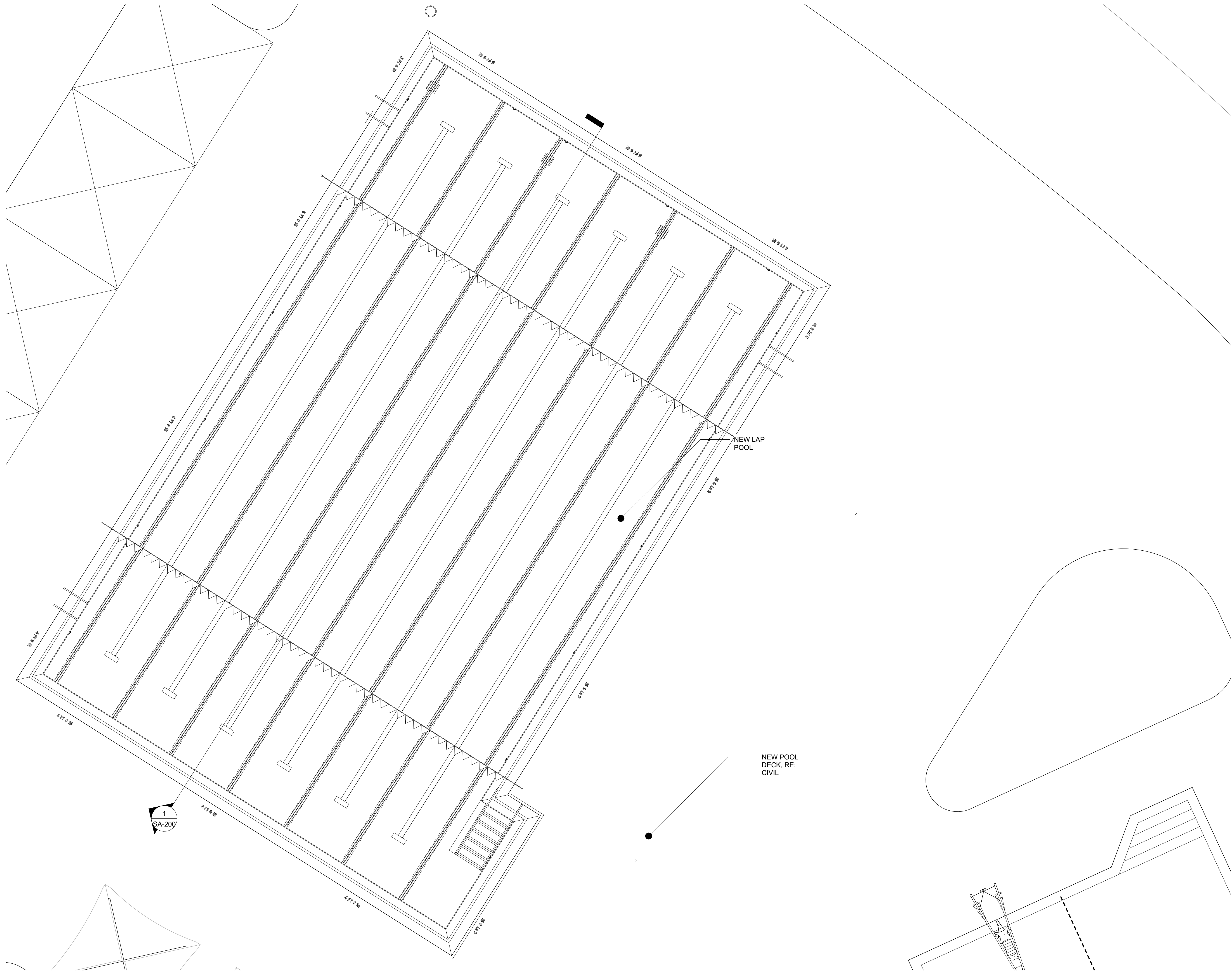
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 3/16" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 2023-493.001
 TITLE: LAP POOL PLAN

SHEET #:

SA-101



1
SA-101



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[illegible]

SCALE: 3/16" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 2023-493.001
 TITLE: LEISURE POOL PLAN

SHEET #:

SA-102

1 LEISURE POOL PLAN

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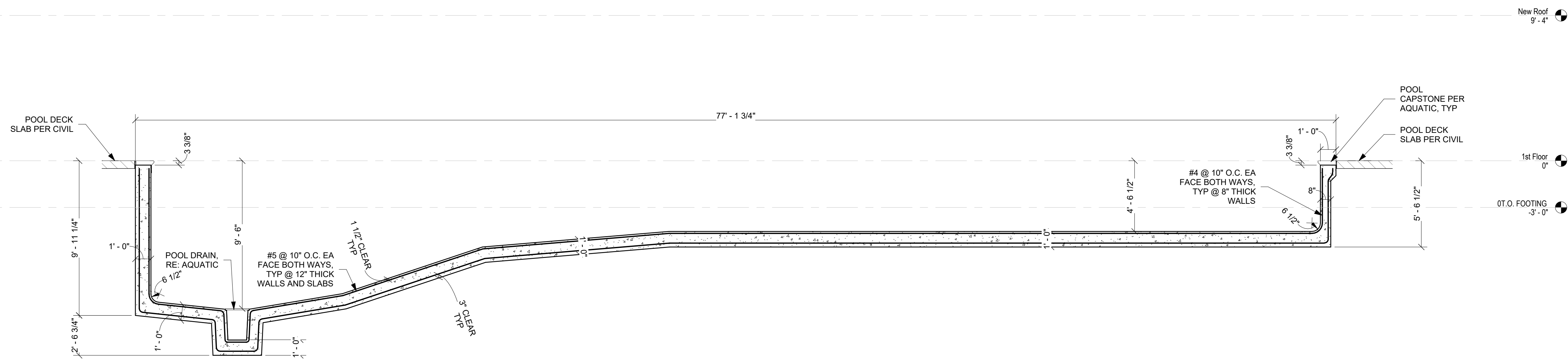
[illegible]

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 2023-493.001
 TITLE: AQUATIC STRUCTURAL
 SECTIONS

SHEET #:

SA-200

1. REFERENCE AQUATIC DRAWINGS TO VERIFY POOL DIMENSIONS AND PROFILE.
2. ALL POOL SLABS SHALL BE 12" DEPTH.
3. ALL POOL WALLS RETAINING MORE THAN 5'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 12" THICK. POOL WALLS RETAINING LESS THAN OR EQUAL TO 5'-0" ABOVE T.O. ADJACENT POOL SLAB SHALL BE 8" THICK.



1 Lap Pool Structural Section

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
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
MA		MAKE-UP AIR
FCU		FAN COIL UNIT
VAV		VARIABLE AIR VOLUME TERMINAL

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
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
(E)		EXISTING
SF		SQUARE FOOTAGE
ADAP		EXISTING (DEMOLITION OR REMOVED) CONTROL WIRING ACCESS DOOR/ACCESS PANEL POINT OF CONNECTION - NEW TO EXISTING
		PIPE TAG - X=PIPE SIZE, Y=GPM X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
MCD		MOTORIZED CONTROL DAMPER
		BACKDRAFT DAMPER
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRESMOKE DAMPER
(EFD)		EXISTING FIRE DAMPER
(EFSO)		EXISTING COMBINATION MOTORIZED FIRESMOKE DAMPER
		WALL SWITCH
		WALL SWITCH WITH PILOT LIGHT
		THERMOSTAT / HUMIDISTAT
		TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
		COMBINATION TEMPERATURE SENSORS
		EMERGENCY POWER OFF SWITCH
		OCCUPANCY SENSOR
		SMOKE DETECTOR
		PRESSURE SENSOR
		MOTOR STARTER
		VELOCITY SENSOR
		ANALOG FLOW MEASURING DEVICE
		VARIABLE FREQUENCY DRIVE
		ANALOG OUTPUT
		ANALOG INPUT
		DIGITAL OUTPUT
		DIGITAL INPUT
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		RETURN DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
		OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING
		45° TAKEOFF
		STANDARD RADIUS ELBOW
		NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
		NEW ROUND DUCTWORK - DIAMETER
		NEW OVAL DUCTWORK - WIDTH x DEPTH
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
CD		CEILING DIFFUSER (TWO WAY THROW PATTERN)
CD		CEILING DIFFUSER (ONE WAY THROW PATTERN)
CD		CEILING DIFFUSER (THREE WAY THROW PATTERN)
CD		CEILING DIFFUSER (TWO WAY THROW PATTERN)
SD		SLOT DIFFUSER
RREG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
VAV		VAV TERMINAL UNIT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY
		SOUND ATTENUATOR

MECHANICAL DEMOLITION GENERAL NOTES AND SPECIFICATIONS

- 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.
- 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.
- COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
- EXISTING MECHANICAL WORK IS SHOWN LIGHT.
- 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.
- ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING AND CONTROL COMPONENTS SHALL BE REMOVED.
- ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
- 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.
- THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALLS TO MATCH EXISTING AT THE DEMOLISHED LOCATIONS.
- THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
- THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF, AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
- THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.
- 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.

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

- 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.
- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- 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.
- 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.
- WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE GENERAL AND MECHANICAL CONTRACTORS SHALL VERIFY THAT THE RETURN AIR PATH BACK TO THE UNIT IS OPEN WITH A VELOCITY THROUGH ALL OPENINGS OF 400 FPM OR LESS.
- 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.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
- 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.
- 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.
- PROVIDE PIPE MARKER IDENTIFICATION INCLUDING ARROWS TO INDICATE DIRECTION OF FLOW. LOCATE PIPE MARKER AND ARROWS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES. MECHANICAL ROOMS AND ACCESSIBLE MAINTENANCE AREAS (SHAFTS, TUNNELS, PLENUMS) MARKERS SHALL BE SNAP-ON TYPE OR PRESSURE-SENSITIVE TYPE AT INSTALLER'S OPTION. COLORS TO COMPLY WITH ANSI A13.1.
- PROVIDE VALVE TAGS ON EVERY VALVE, COOK, AND CONTROL DEVICE IN EACH PIPING SYSTEM. LIST EACH TAGGED VALVE IN VALVE SCHEDULE FOR EACH PIPING SYSTEM. MOUNTED FRAMED VALVE SCHEDULE IN MAIN MECHANICAL ROOM. VALVE TAGS 1-1/2" DIAMETER OF PLASTIC LAMINATE OR BRASS WITH PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS IN 1/2" HIGH LETTERS.
- BALANCE AIR (HYDRONIC, AND RECIRCULATING DOMESTIC HOT WATER) 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.
- 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.
- 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.
- 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.
- 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.
- ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE UNACCESSIBLE 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.

MECHANICAL HVAC INSULATION NOTES AND SPECIFICATIONS

- ALL RECTANGULAR SUPPLY, RETURN, AND TRANSFER DUCTWORK SHALL BE LINED WITH 1" DUCT LINER, UNLESS NOTED OTHERWISE.
- ALL CONCEALED ROUND DUCTWORK SHALL BE WRAPPED WITH 1-1/2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6.
- OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-8. NO DUCT LINER ALLOWED.
- FLEXIBLE DUCTWORK SHALL BE WRAPPED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-6.
- ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, (LINED WITH 1" DUCT LINER).
- ALL EXHAUST DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR AND ROOF MOUNTED DUCTWORK EXPOSED TO OUTDOORS SHALL BE PROVIDED WITH 1" DUCT LINER AND 2" DUCT WRAP, WITH A WATERTIGHT ALUMINUM ALL WEATHER JACKETING. MINIMUM TOTAL ASSEMBLY R-12.
- RECTANGULAR MAKE-UP AIR SUPPLY DUCTWORK SHALL BE WRAPPED WITH 1-1/2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6. NO DUCT LINER ALLOWED.
- REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH MINIMUM 1/2" THICK CLOSED CELL INSULATION, OR AS RECOMMENDED BY EQUIPMENT MANUFACTURER. NOTE THAT BOTH REFRIGERANT LIQUID AND SUCTION LINES SHALL BE INSULATED FOR VRF AND DUCTLESS SPLIT SYSTEMS.
- INSULATE HEATING WATER PIPING 1-1/2" AND SMALLER WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. INSULATE HEATING WATER PIPING 2" AND LARGER WITH 2" PIPE INSULATION WITH ALL SERVICE JACKET.
- INSULATE CHILLED WATER PIPING WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.

SHEET INDEX			
SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M-000	MECHANICAL COVER SHEET	NONE	X
MD-101	HVAC DEMO FLOOR PLAN	1/8" = 1'-0"	X
MD-201	HVAC DEMO PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-101	HVAC FLOOR PLAN	1/8" = 1'-0"	X
M-201	HVAC PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-301	HVAC ENLARGED PLANS	1/4" = 1'-0"	X
M-501	HVAC DETAILS	NONE	X
M-601	HVAC SCHEDULES	NONE	X

HVAC PIPING NOTES AND SPECIFICATIONS

- HEATING WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. HEATING WATER PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
- CHILLED WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. CHILLED WATER PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
- REFRIGERANT PIPING SHALL BE TYPE "L" OR "ACR" COPPER, UNLESS NOTED OTHERWISE.
- ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
- PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
- PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
- PIPING CONTRACTOR SHALL SUBMIT IN ADDITION TO THE COORDINATED SHOP DRAWINGS, AN INDIVIDUAL SHOP DRAWING SHOWING ALL MEANS OF HYDRONIC SYSTEM EXPANSION (HEATING AND CHILLED WATER SYSTEMS). CONTRACTOR CAN USE EXPANSION LOOPS, ANCHORS AND ROLLERS, EXPANSION COMPENSATORS OR A COMBINATION OF BOTH. HYDRONIC EXPANSION LOCATIONS, METHODS, AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED, OR SCHEDULED. ALL RUNOUT PIPING TO HEATING DEVICES SHALL BE A MINIMUM OF 5'-0" IN LENGTH AND SHALL HAVE A MINIMUM OF (5) 90° ELBOWS, WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.

MECHANICAL HVAC NOTES AND SPECIFICATIONS

- DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHEN DUCT LINER IS REQUIRED, INCREASE SHEET METAL DIMENSIONS ACCORDINGLY.
- FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
- UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
- PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
- PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
- 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. DUCT GAUGES SHALL MEET OR EXCEED SMACNA STANDARDS.
- ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS 'A') ALONG ALL SEAMS AND JOINTS.
- 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.
- EXPOSED DUCTWORK SHALL HAVE A GALVANIZED FINISH. EXPOSED DUCTWORK SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER. PAINTING OF DUCTWORK IN FIELD TO BE BY THE GC.
- ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
- MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
- MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
- MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
- 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 ORB.
- SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL, WITHOUT MANUAL VOLUME DAMPERS.
- RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
- 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.
- COORDINATE LOUVER, WALL CAP, AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
- COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
- 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.
- ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
- DIVISION 16 SHALL PROVIDE A 120 VOLT, 20 AMP CIRCUIT FOR THE DDC SYSTEM LOCATED IN THE ROOM HOUSING THE DDC COMPUTER. DIVISION 16 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. DIVISION 16 SHALL PROVIDE ONE PHONE CONNECTION LOCATED IN THE ROOM HOUSING THE DDC COMPUTER. COORDINATE EXACT ROOM WITH THE OWNER.
- MOTOR STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AS REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT.



2000 LAWRENCE STREET
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com

PRELIMINARY -
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 1/22/2024 100% DD

SCALE: NONE

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

REV'D BY: PWF

PROJECT #: 23079

TITLE: MECHANICAL COVER SHEET

SHEET #:

M-000

**PRELIMINARY -
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CONSTRUCTION**

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/8" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

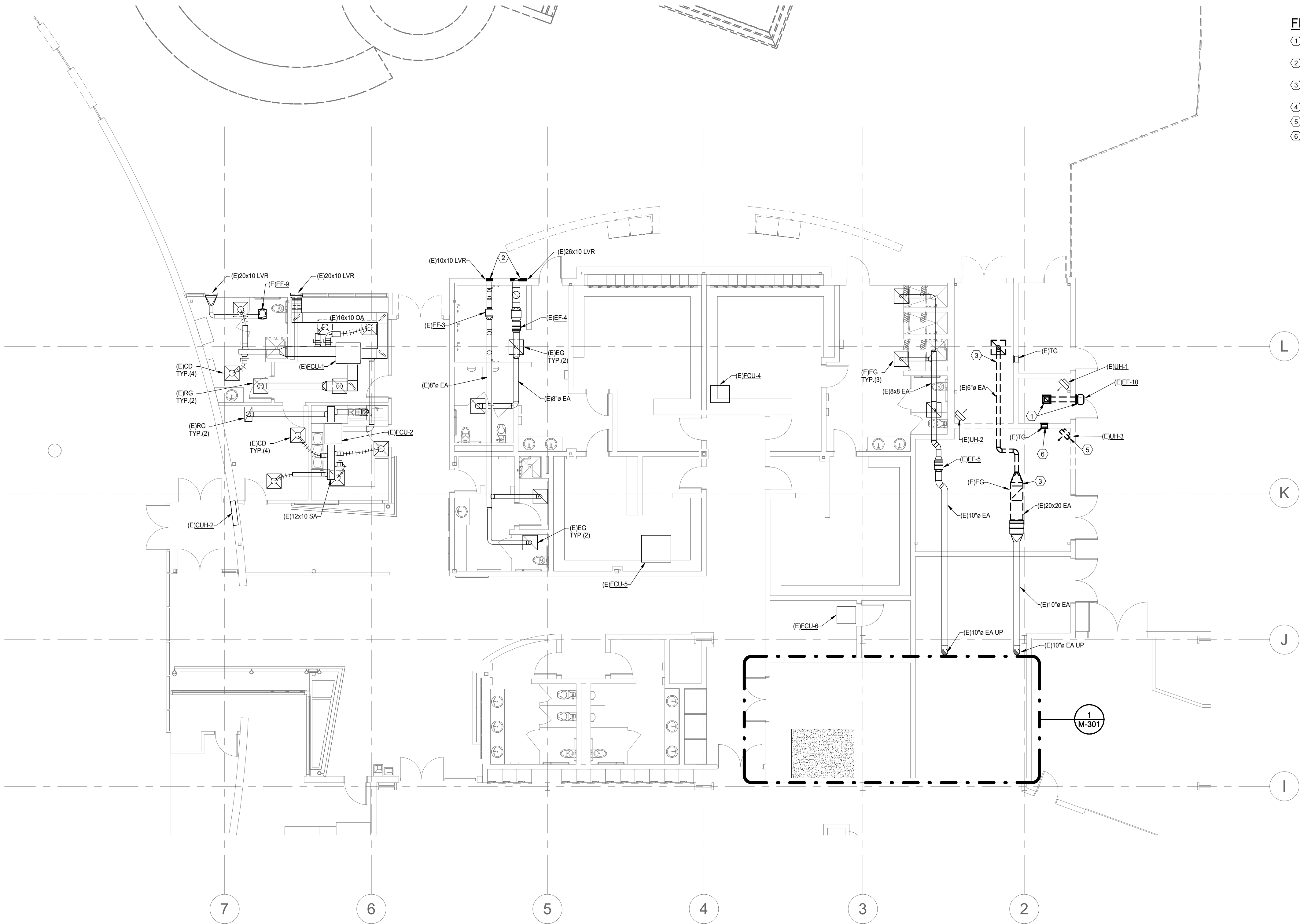
REV'D BY: PWF

PROJECT #: 23079

TITLE: HVAC DEMO FLOOR PLAN

SHEET #:

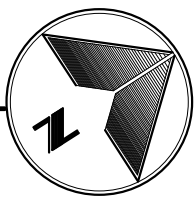
MD-101



HVAC DEMO FLOOR PLAN

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"





**PRELIMINARY -
NOT FOR
CONSTRUCTION**

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/8" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

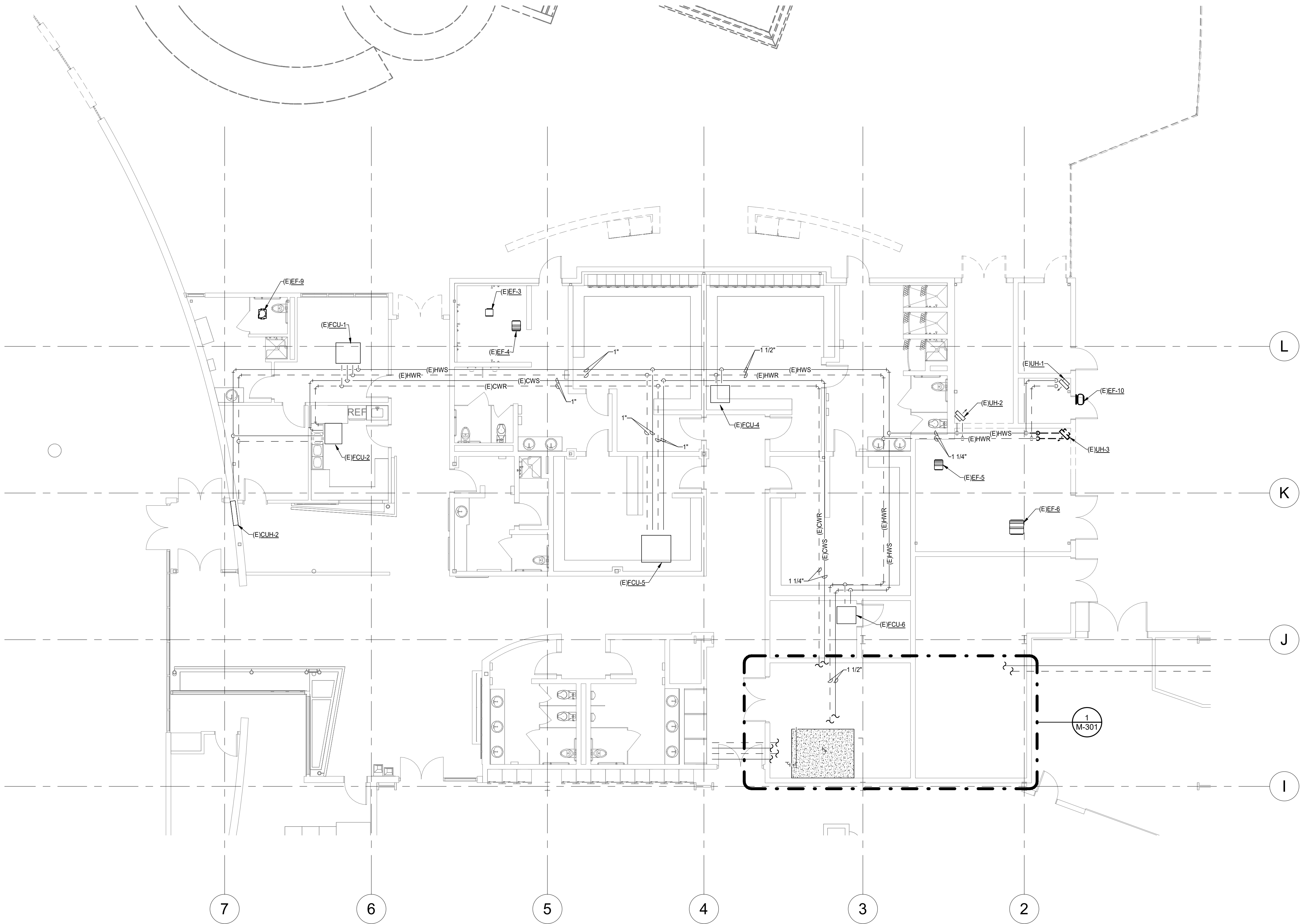
REV'D BY: PWF

PROJECT #: 23079

TITLE: HVAC DEMO PIPING FLOOR
PLAN

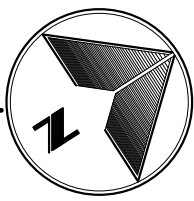
SHEET #:

MD-201



HVAC DEMO PIPING FLOOR PLAN

SCALE: 1/8" = 1'-0"

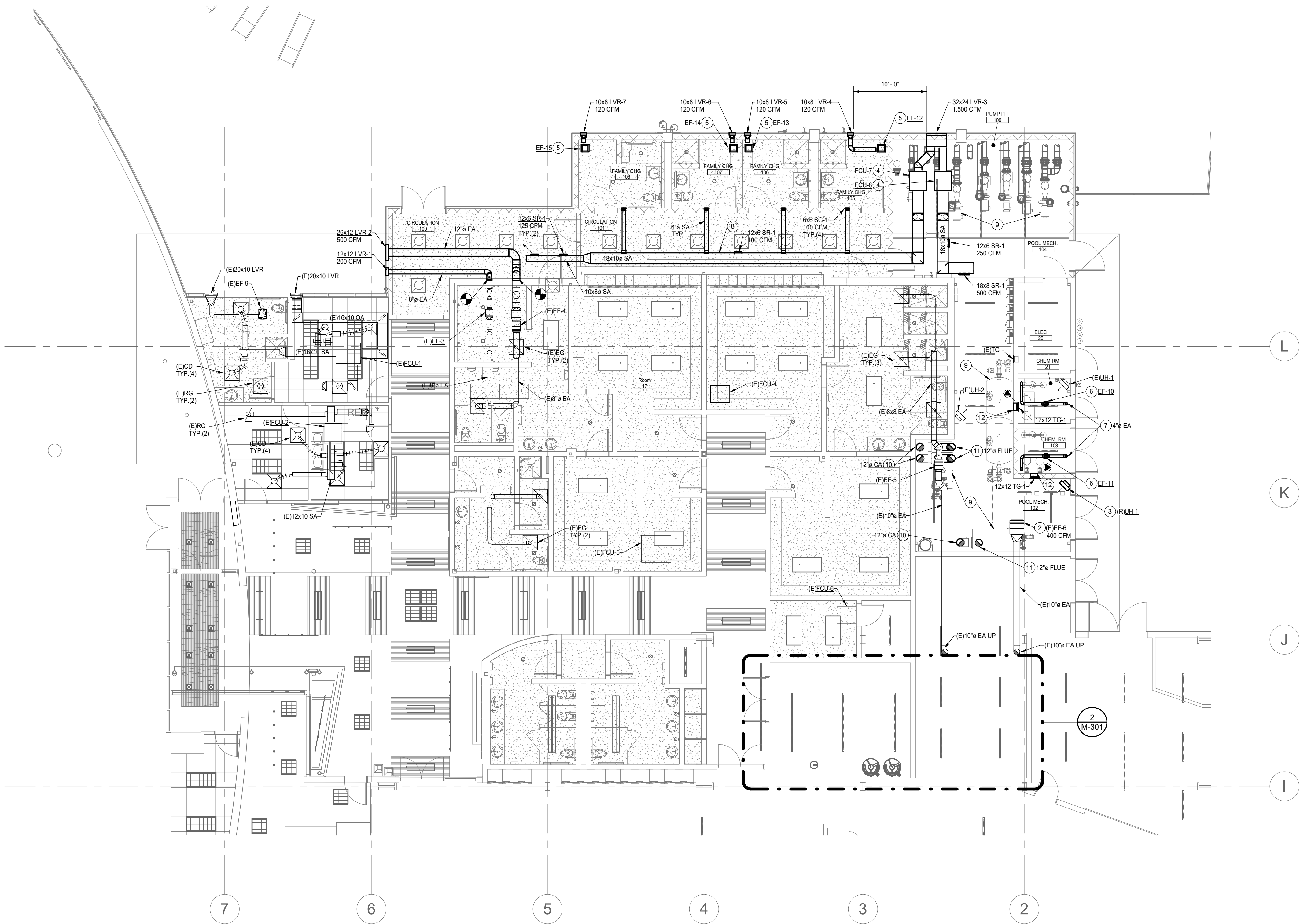




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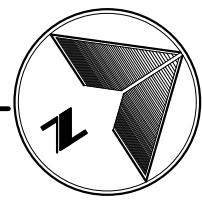
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631



HVAC FLOOR PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR HVAC KEYNOTES:

1. INLINE EXHAUST FAN. REFER TO DETAIL AND SCHEDULES.
2. REBALANCE THE EXISTING EXHAUST FAN TO THE AIRFLOW VALUE LISTED. PROVIDE FAN WITH AN INLET GUARD.
3. RELOCATE EXISTING UNIT HEATER AS INDICATED.
4. HYDRONIC FAN COIL UNIT. SET UNIT 10'-0" ABOVE BOTTOM OF PUMP PIT. REFER TO SCHEDULES.
5. CEILING FAN SUPPORTED FROM STRUCTURE ABOVE. SET FAN AS HIGH AS POSSIBLE. REFER TO SCHEDULE.
6. INLINE CHEMICAL EXHAUST FAN SUPPORTED FROM STRUCTURE ABOVE. REFER TO SCHEDULE.
7. TERMINATE 4" CPVC CHEMICAL ROOM EXHAUST PIPE 12" ABOVE FINISHED ROOF.
8. PROVIDE 18 GAUGE OVAL SPIRAL DUCTWORK WHERE EXPOSED IN THE CORRIDOR.
9. POOL EQUIPMENT SHOWN FOR COORDINATION ONLY. TYPICAL. REFER TO AQUATICS PLANS FOR REQUIREMENTS.
10. SINGLE WALL GALVANIZED COMBUSTION AIR DUCTWORK OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE. SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. INSULATE DUCTWORK PER OUTSIDE AIR DUCTWORK INSULATION REQUIREMENTS IN SPECIFICATIONS. TERMINATE DUCTWORK 3'-0" ABOVE ROOF WITH MANUFACTURER'S INLET CAP.
11. ALONG FLUE OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. DO NOT PROVIDE ANY DUCTWORK THAT IS ANGLED LESS THAN 45° FROM HORIZONTAL. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE. SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. TERMINATE FLUE 3'-0" ABOVE ANY FRESH AIR INTAKE WITHIN 10'-0" WITH MANUFACTURE'S VENT CAP.
12. PROVIDE A STAINLESS STEEL TYPE A FIRE DAMPER IN WALL DAMPER SHALL BE ACCESSED FROM THE POOL EQUIPMENT ROOM SIDE OF THE WALL WITH THE TRANSFER GRILLS ON THE CHEMICAL ROOM SIDE. SET AS HIGH AS POSSIBLE AND COORDINATE WITH BLOCK COURSING.

NO. DATE: TITLE/PURPOSE:

1 1/22/2024 100% DD

SCALE: 1/8" = 1'-0"

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

REV'D BY: PWF

PROJECT #: 23079

TITLE: HVAC FLOOR PLAN

SHEET #:

M-101

**PRELIMINARY -
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CONSTRUCTION**

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

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[illegible]

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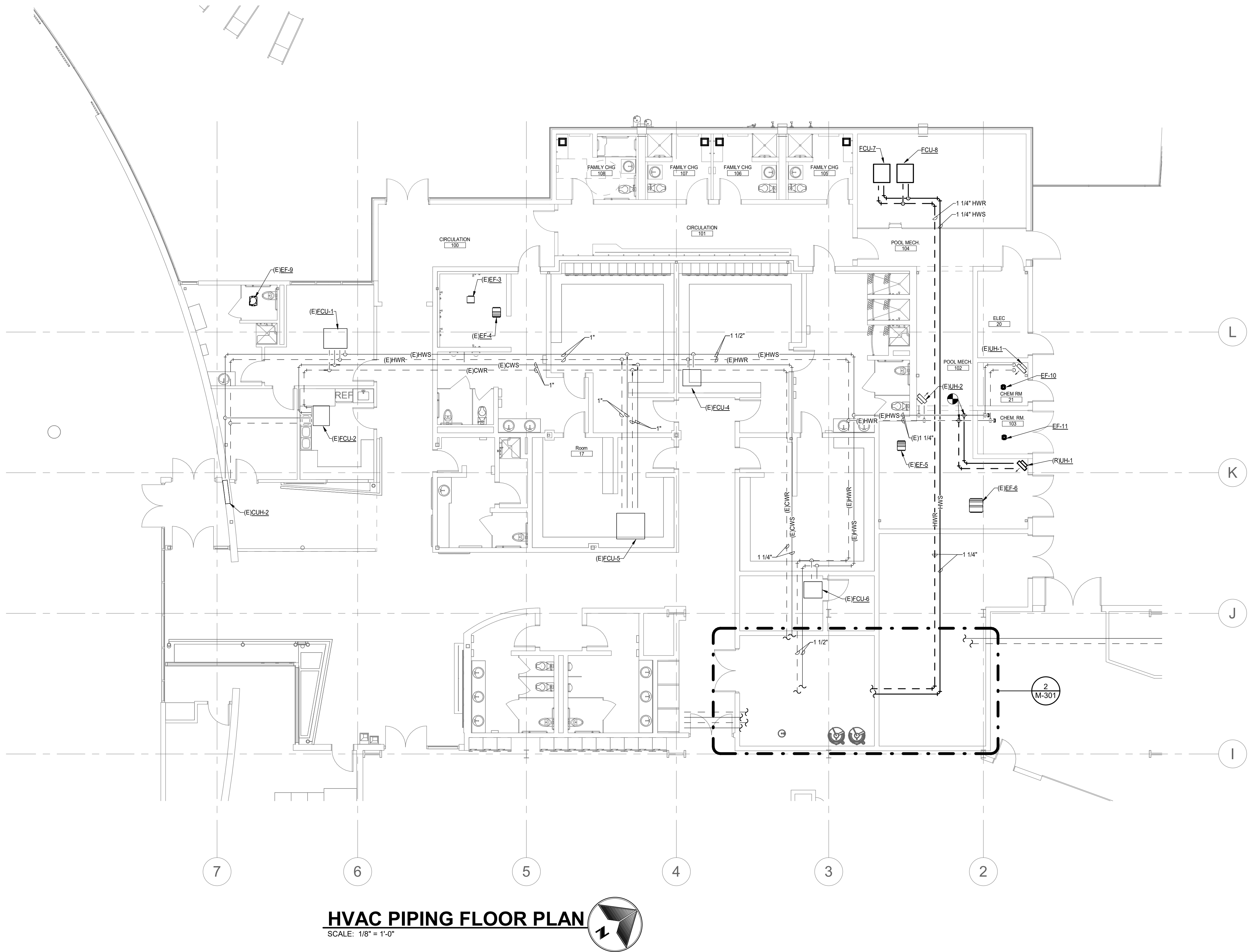
REV'D BY: PWF

PROJECT #: 23079

TITLE: HVAC PIPING FLOOR PLAN

SHEET #:

M-201



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

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1 PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING.



- 1 PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING.
- 2 CONNECT NEW HOT WATER PIPING INTO EXISTING PIPING AT MAINS.
- 3 CPVC WATER HEATER FLUE OF SIZE INDICATED FROM THE WATER HEATER CONNECTION UP THROUGH MECHANICAL MEZZANINE TO ROOF ABOVE. INSTALL PER THE MANUFACTURER'S REQUIREMENTS. SLOPE FLUE PER CODE REQUIREMENTS. CONFIRM SIZE, TYPE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL MANUFACTURER. TERMINATE PER MANUFACTURER'S REQUIREMENTS A MINIMUM OF 3'-0" ABOVE ROOF.

[illegible]

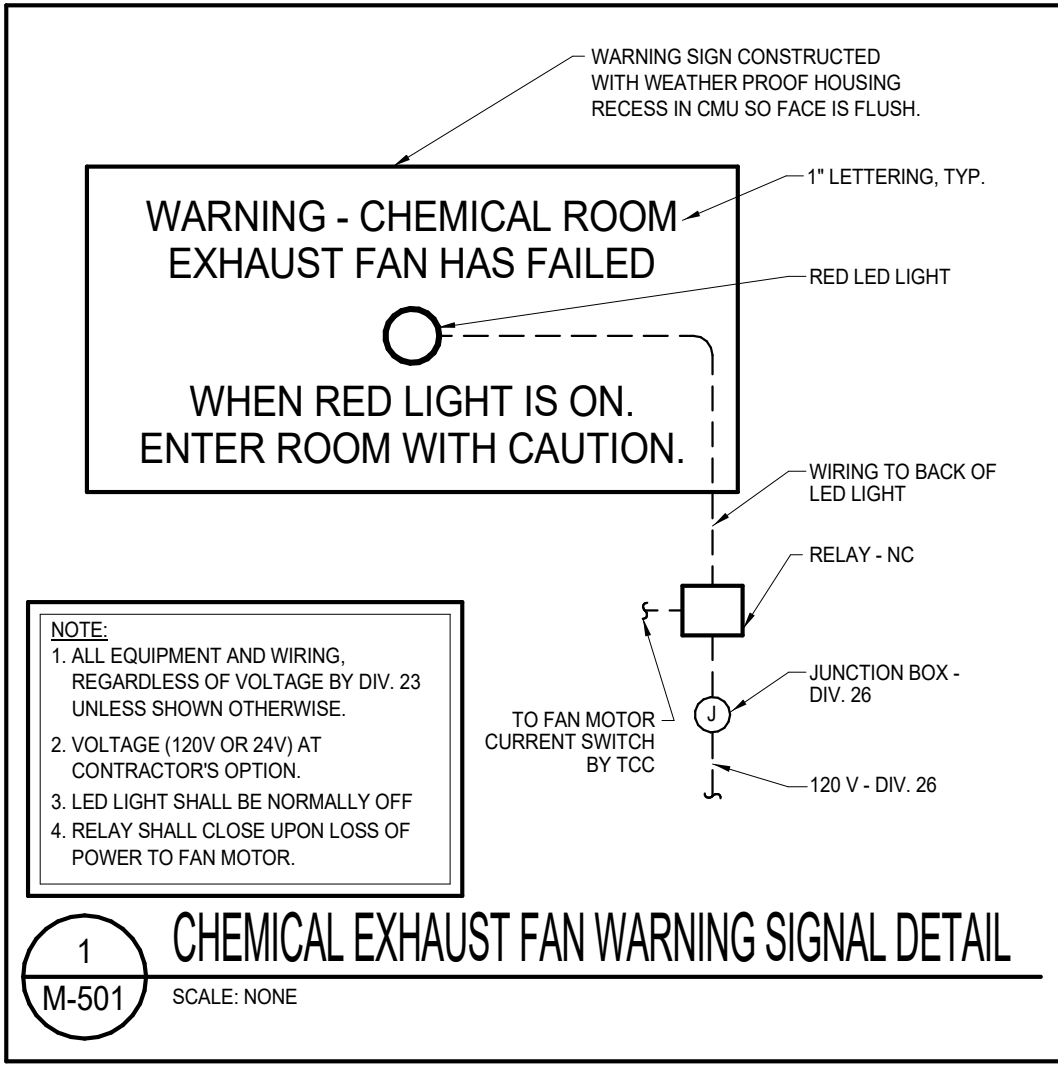
SHEET #:

M-301



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

M-501



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

FAN COIL UNIT SCHEDULE (HEATING ONLY)																					
PLAN CODE	MANUFACTURER & MODEL NO.	HEATING COIL								CFM	OA CFM	ESP	FAN ELECTRICAL			NC LEVEL	DIMENSIONS			OPER. WEIGHT	REMARKS
		MBH TOTAL	GPM	EWT	LWT	WPD	APD	EAT	LAT				WATTS/ HP	VOLTS	Ø		L	W	H		
FCU-7		69.2	3.5	160.0	120.0	5.0	0.25	-20.0	90.0	750	750	1.0		115	1					NOTE: 1-5	
FCU-8		69.2	3.5	160.0	120.0	5.0	0.25	-20.0	90.0	750	750	1.0		115	1					NOTE: 1-5	
NOTES: 1. HEATING WATER SYSTEM UTILIZES 35% PROPYLENE GLYCOL. 2. EQUIPMENT IS SELECTED AT A PROJECT ALTITUDE OF 6,800 FEET ABOVE SEA LEVEL. 3. PROVIDE EC MOTOR ON SUPPLY FAN WITH UNIT MOUNTED SPEED CONTROL FOR BALANCING. 4. PROVIDE UNIT WITH FACTORY PACKAGED CONTROLS AND A 7-DAY PROGRAMMABLE THERMOSTAT. 5. FAN COIL UNIT SHALL BE 100% OUTSIDE AIR. OUTSIDE AIR DAMPER SHALL BE REMOTE AND LOCATED AT OUTSIDE AIR LOUVER CONNECTION. REFER TO PLANS.																					

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
									H	L	W	
LVR-1	RUSKIN ELF375DXH	(E)EF-3	0.2	200	870	0.16	STANDARD	NOTE: 1	12"	12"	4"	NOTES: 2,3,4
LVR-2	RUSKIN ELF375DXH	(E)EF-4	0.6	500	820	0.14	STANDARD	NOTE: 1	12"	26"	4"	NOTES: 2,3,4
LVR-3	RUSKIN ELF375DXH	FCU OA	2.6	1,500	572	0.07	STANDARD	NOTE: 1	24"	32"	4"	NOTES: 2,3,4
LVR-4	RUSKIN ELF15J	EF-12	0.2	120	750	0.12	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-5	RUSKIN ELF15J	EF-13	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-6	RUSKIN ELF15J	EF-14	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-7	RUSKIN ELF15J	EF-15	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
NOTES: 1. EXTRUDED ALUMINUM. 2. PROVIDE LOUVER WITH 1/2" BIRD SCREEN. 3. PROVIDE LOUVER WITH 70% PVDF FINISH. CUSTOM COLOR SHALL BE MATCHED PER ARCHITECTURAL REQUIREMENTS. 4. HEAVY DUTY LOUVER WITH FRAME AND BLADE THICKNESS OF 0.125" MINIMUM.												

GRILLES, REGISTERS & DIFFUSERS SCHEDULE										
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	NECK SIZE (IN)	FACE SIZE (IN)	SLOT WIDTH/ SLOTS	VOLUME DAMPER (OBD)	MATERIAL	MOUNTING TYPE	FINISH	REMARKS
SG-1	PRICE 610	SUPPLY	AS NOTED	NECK + 2.5"	-	NO	ALUMINUM	SURFACE	NOTE: 2	NOTE: 1
SR-1	AIR CONCEPTS DL-C	SUPPLY	AS NOTED	NECK + 2.375"	-	YES	ALUMINUM	DUCT	NOTE: 2	NOTE: 3
TG-1	PRICE 630	TRANSFER	AS NOTED	NECK + 1.75"	-	NO	ALUMINUM	LAY-IN	WHITE	
NOTES: 1. DOUBLE DEFLECTION, 1" BLADE SPACING. 2. CUSTOM COLOR SELECTION BY ARCHITECT. 3. PROVIDE WITH OPPOSED BLADE DAMPER IN LIEU OF EXTRACTION DAMPER.										

FAN SCHEDULE																		
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES	CFM	E.S.P.	RPM	MOTOR		DIMENSIONS (IN)			WT (LBS)	VIB. ISOL.	CONTROL	DAMPER TYPE	REMARKS	
						@ S.L.	@ S.L.	HP	V/Ø/HZ	H	W	L						
EF-10	FANTECH FR 110	CHEMICAL	CHEM	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"	9"	50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4	
EF-11	FANTECH FR 110	CHEMICAL	CHEM	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"	9"	50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4	
EF-12	PANASONIC WHISPER FV-1115V/K2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9	
EF-13	PANASONIC WHISPER FV-1115V/K2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9	
EF-14	PANASONIC WHISPER FV-1115V/K2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9	
EF-15	PANASONIC WHISPER FV-1115V/K2	CEILING	CHANGING	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9	
NOTES: 1. PROVIDE WITH MANUFACTURER'S ELECTRICAL DISCONNECT. 2. PROVIDE FAN WITH CPVC "ADJUSTABLE" MANUAL VOLUME DAMPER. 3. PROVIDE FAN WITH MANUFACTURER'S CLEAN AIR STACK FITTING AND MVD. REFER TO SECTION. 4. PROVIDE FAN WITH STAINLESS STEEL MOUNTING HARDWARE AND ALL CORROSION RESISTANT MATERIALS. 5. FAN SHALL OPERATE 24/7/365. PROVIDE A CHEMICAL EXHAUST FAN WARNING LIGHT. REFER TO DETAIL. 6. PROVIDE WITH SPRING VIBRATION ISOLATION. 7. FAN CONTROLLED BY TIME OF DAY SCHEDULE THROUGH THE BAS. 8. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER. 9. PROVIDE WITH EC MOTOR. PROVIDE MOTOR MOUNTED POTENTIOMETER DIAL FOR FAN BALANCING.																		

NO. DATE: TITLE/PURPOSE:

1 1/22/2024 100% DD

SCALE: NONE

ISSUE DATE: 01/22/2024

DRAWN BY: BMG

REV'D BY: PWF

PROJECT #: 23079

TITLE: HVAC SCHEDULES

SHEET #:

M-601



The Ballard Group, Inc.
Mechanical Consulting Engineers
 2525 S. Wadsworth Blvd, Suite 200
 Lakewood, CO 80227
 (303) 988-4514

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

PLUMBING DEMOLITION GENERAL NOTES

2. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
3. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
4. EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
5. 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.
6. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
7. 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 PREPARING AND IDENTIFY THESE WALLS AND/or CEILINGS SO THAT THE EXISTING ARCHITECTURAL RECORDS AND/OR THE ARCHITECTURAL DOCUMENTS, THE CONTRACTOR SHALL REVIEW THE PLUMBING DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID.
8. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED PLUMBING TO MATCH EXISTING CONDITIONS.
9. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.
10. PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.

2. FIELD VERIFY EXIST LOCATIONS OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
3. ROUGH-IN AND FINAL CONNECTION ALL FIXTURES, EQUIPMENT, ETC.
4. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK.
5. ANY DISCREPANCIES BETWEEN THE CONTRACT 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.
6. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
7. PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
8. REFERENCE HVAC DRAWINGS FOR EXIST LOCATIONS OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENT PRIOR TO COMMENCING WORK.
9. ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
10. 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.
11. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
12. PROVIDE CHROME PLATE SPLIT SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CEASWORK.
13. PROTECT ALL EXISTING EQUIPMENT INDICATED AS REMAINING IN PLACE OR BEING RELOCATED. REMOVE ALL EQUIPMENT IMMEDIATELY WITH EXIST DUCT/PLATE AT NO ADDITIONAL COST TO THE OWNER.
14. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND PROTECTING ALL EXISTING PIPING AND UTILITIES. NO DAMAGE TO EXISTING PIPING OR UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
15. COMPLY WITH ALL BUILDING AND HEALTH DEPARTMENT REGULATIONS FOR PLUMBING INSTALLATION. REPAIR ALL REQUIREMENTS PRIOR TO SUBMITTING AIR OR COMMENCING WORK.
16. FLOUSH MOUNT ALL FLOOR SINKS FOR FLOOR DRAINAGE USE.
17. ALL GAS PIPING, VALVES, PVR, ETC. SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL FLA CODE.

1. ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT ADOPTED.

2. RELOCATE EXISTING FIRE SPRINKLER HEADS PER NEW WALL & CEILING LAYOUT. NEW FIRE SPRINKLER HEADS SHALL MATCH EXISTING. UPDATE EPI'S ZONE TO NEW ADDITION.

3. ALL PIPING SHALL CONFORM TO NFPA 13.

4. PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERERS TO ALL LOCAL CODES. BUILDING OWNER INDEPENDENT CARRIER, AND NEW YORK CITY.

5. PROVIDE HYDRAULIC CALCULATION ALONG WITH SHOP DRAWINGS FOR ARCHITECT/ENGINEER/OWNER/CODE APPROVAL.

6. IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO CALCULATE, DESIGN AND INSTALL THE FIRE PROTECTION SYSTEM(S) CALLED FOR, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT, SPRINKLERS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE, APPROVED AND OPERATIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.

7. THE ENTIRE BUILDING, WITH SPECIFIC EXCEPTIONS NOTED, SHALL BE PROVIDED AUTOMATIC SPRINKLER SYSTEM PROTECTION.

8. EXISTING PIPING, EQUIPMENT AND SPRINKLER, WHERE INDICATED, HAVE BEEN SHOWN IN AN APPROXIMATE MANNER. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING PIPING, EQUIPMENT, SPRINKLER, ETC. PRIOR TO COMMENCING WORK.

9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING MOUNTING HEIGHTS AND LOCATION OF CEILING MOUNTED EQUIPMENT.

10. FURNISH SHOP DRAWINGS OF THE SYSTEM ALONG WITH HYDRAULIC CALCULATIONS AND PRODUCT DATA OF ALL PIPING, EQUIPMENT AND SPRINKLERS PROPOSED PRIOR TO INSTALLATION.

11. COORDINATE LOCATIONS OF ALL SPRINKLER WITH CEILING SYSTEMS AND ALL CEILING MOUNTED EQUIPMENT.

12. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE BUILDING CODE.

13. CONNECTIONS TO, AND SHUTDOWNS OF EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER AND LOCAL FIRE DEPARTMENT. SCHEDULE WORK TO MINIMIZE INTERFERENCE WITH OWNERS OPERATIONS AND MAINTENANCE OF EXISTING SYSTEMS.

14. ALL DRAIN TERMINATIONS SHALL BE EXTENDED TO DISCHARGE TO THE EXTERIOR LOCATION AS APPROVED BY ARCHITECT/ENGINEER. DRAIN PIPING SHALL BE RUN CONCEALED ABOVE CEILING OR WITH APPROVED RECESSES OR CHASES WITHIN WALL. DISCHARGE DRAIN LINES A MAXIMUM OF "16" ABOVE GRADE. PROVIDE 12" DRAINAGE DRAINAGE BLOCKS AT DRAIN TERMINATIONS WHERE OUTLETS DISCHARGE INTO LANDSCAPED AREAS.

15. OFFSET PIPING AS MAYBE REQUIRED TO CLEAR EXISTING STRUCTURAL ELEMENTS, MECHANICAL, AND ELECTRICAL EQUIPMENT SHALL BE APPROVED BY ARCHITECT.

16. FINAL LOCATIONS OF ALL FIRE SPRINKLER SHALL BE APPROVED BY THE ARCHITECT.

17. SPRINKLER INSTALLED IN FINISHED CEILING SYSTEMS SHALL BE CENTERED WITHIN CEILING TILES OR AT QUARTER POINTS ALONG THE LONGITUDINAL AXIS OF 2'x4' CEILING TILES.

PLUMBING LEGEND		
ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
UR		URINAL
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
EW		ELECTRIC WATER COOLER
DF		DRINKING FOUNTAIN
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP/TS		TRAP PRIMER/TRAP SEAL
PP		PLUMBING CIRC. PUMP
SP		SUMP PUMP
SE		SEWAGE EJECTOR

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
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)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
ADIAP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		PRESSURE GAUGE WITH COOK
		PIPE UNION
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		PRESSURE RELIEF VALVE
P/T		PRESSURE/TEMPERATURE TEST PLUG
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
		X = SECTION/DETAIL NUMBER XX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN



**PRELIMINARY -
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CONSTRUCTION**



Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/8" = 1'-0"

ISSUE DATE: 1/22/2024

DRAWN BY: NWD

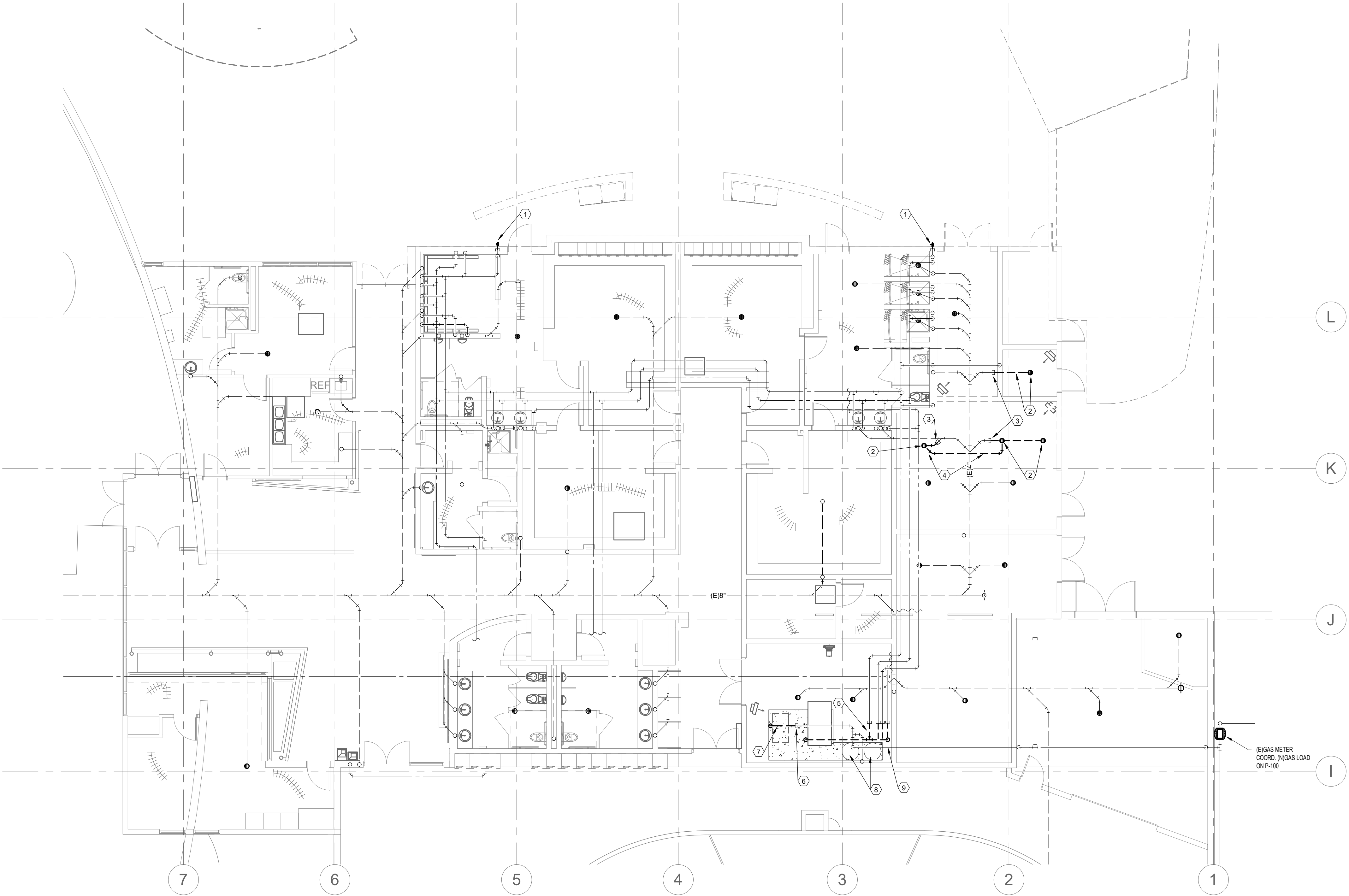
REV'D BY: TRH

PROJECT #: 23079

TITLE: FIRST FLOOR PLUMBING
DEMOLITION

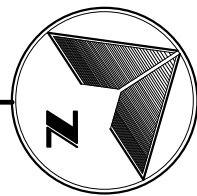
SHEET #:

PD-101



FIRST FLOOR PLUMBING DEMOLITION

SCALE: 1/8" = 1'-0"





**PRELIMINARY -
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CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

[illegible]

SCALE: 1" = 30'-0"

ISSUE DATE: 1/22/2024

DRAWN BY: NWD

REV'D BY: TRH

PROJECT #: 23079

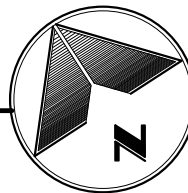
TITLE: PLUMBING SITE PLAN

SHEET #:

P-100

PLUMBING SITE PLAN

SCALE: 1" = 30'-0"



PLUMBING KEYNOTES:

- | | |
|----|---|
| 1 | X |
| 2 | X |
| 3 | X |
| 4 | X |
| 5 | X |
| 6 | X |
| 7 | X |
| 8 | X |
| 9 | X |
| 10 | X |
| 11 | X |
| 12 | X |
| 13 | X |
| 14 | X |

GAS LOAD SCHEDULE:

EXPLANANCE:	LOAD
EB-1 (BOILER)	1,120 MBH
EB-2 (BOILER)	500 MBH
E-FURN-1 (MAU)	1,200 MBH
E-FEPOOL (BOILER)	1,800 MBH
TOTAL GAS LOAD	4,620 MBH INQUIR REQUIRED AT S.L. UTILIZING A PSI SYSTEM M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY
EXPLANANCE:	LOAD
N-1 (PAP POOL HEATER)	1,440 MBH
N-1P (1 REC. POOL HEATER)	1,200 MBH
N-2 (2 REC. POOL HEATER)	1,200 MBH
N-3 (3 REC. POOL HEATER)	250 MBH
N-4 (1 REC. POOL HEATER)	1,120 MBH
N-5 (1 REC. POOL HEATER)	1,120 MBH
E-FURN-1 (MAU)	1,200 MBH
TOTAL GAS LOAD	6,720 MBH INQUIR REQUIRED AT S.L. UTILIZING A PSI SYSTEM M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY
ADDED LOAD:	2,140 MBH INQUIR @ S.L.



**PRELIMINARY -
NOT FOR
CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

[illegible]

SCALE: 1/8" = 1'-0"

ISSUE DATE: 1/22/2024

RAWN BY: NWD

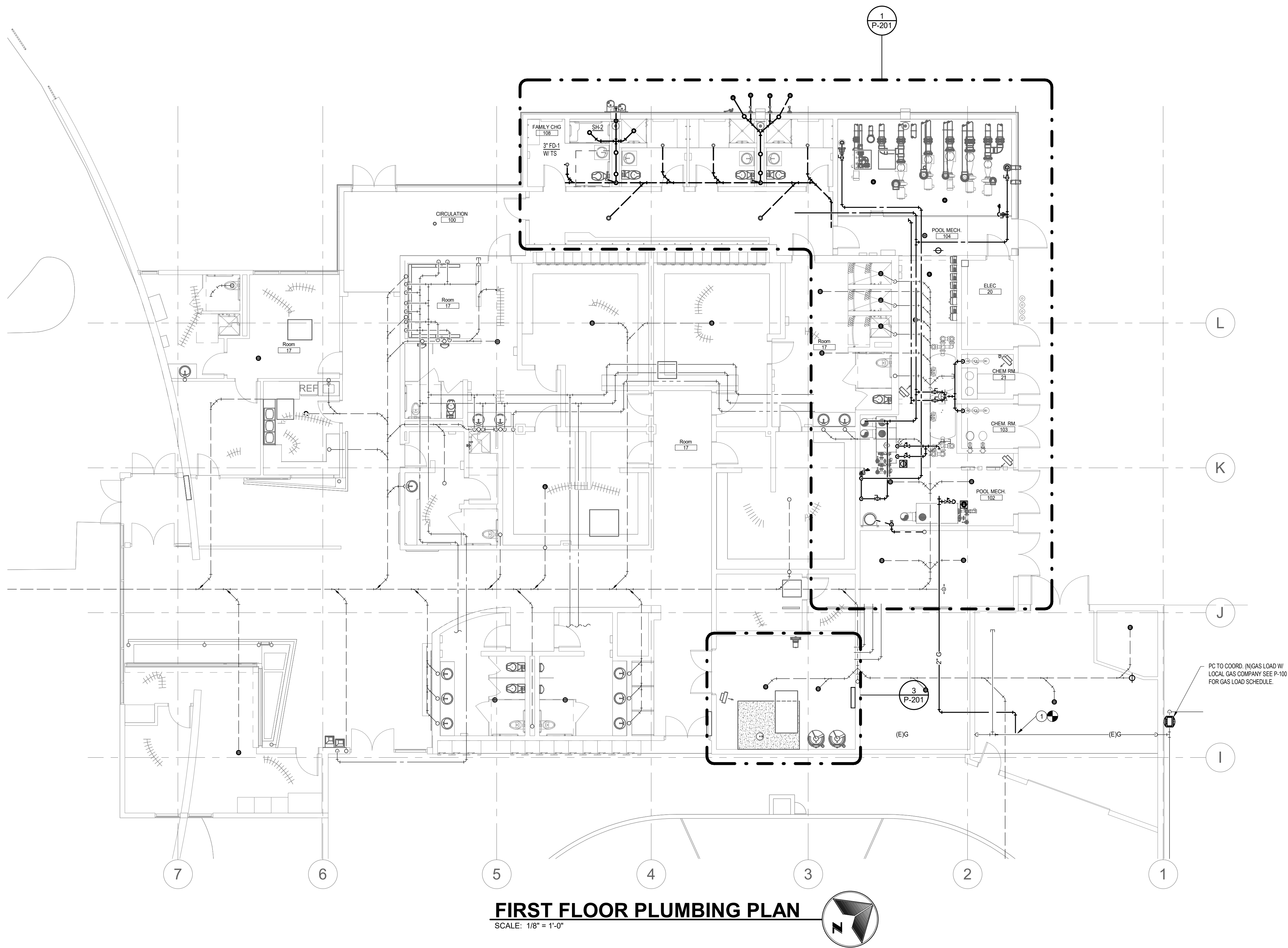
EV'D BY: TRH

PROJECT #: 23079

TITLE: FIRST FLOOR PLUMBING PLAN

HEET #:

P-101



**PRELIMINARY -
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CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/4" = 1'-0"

ISSUE DATE: 1/22/2024

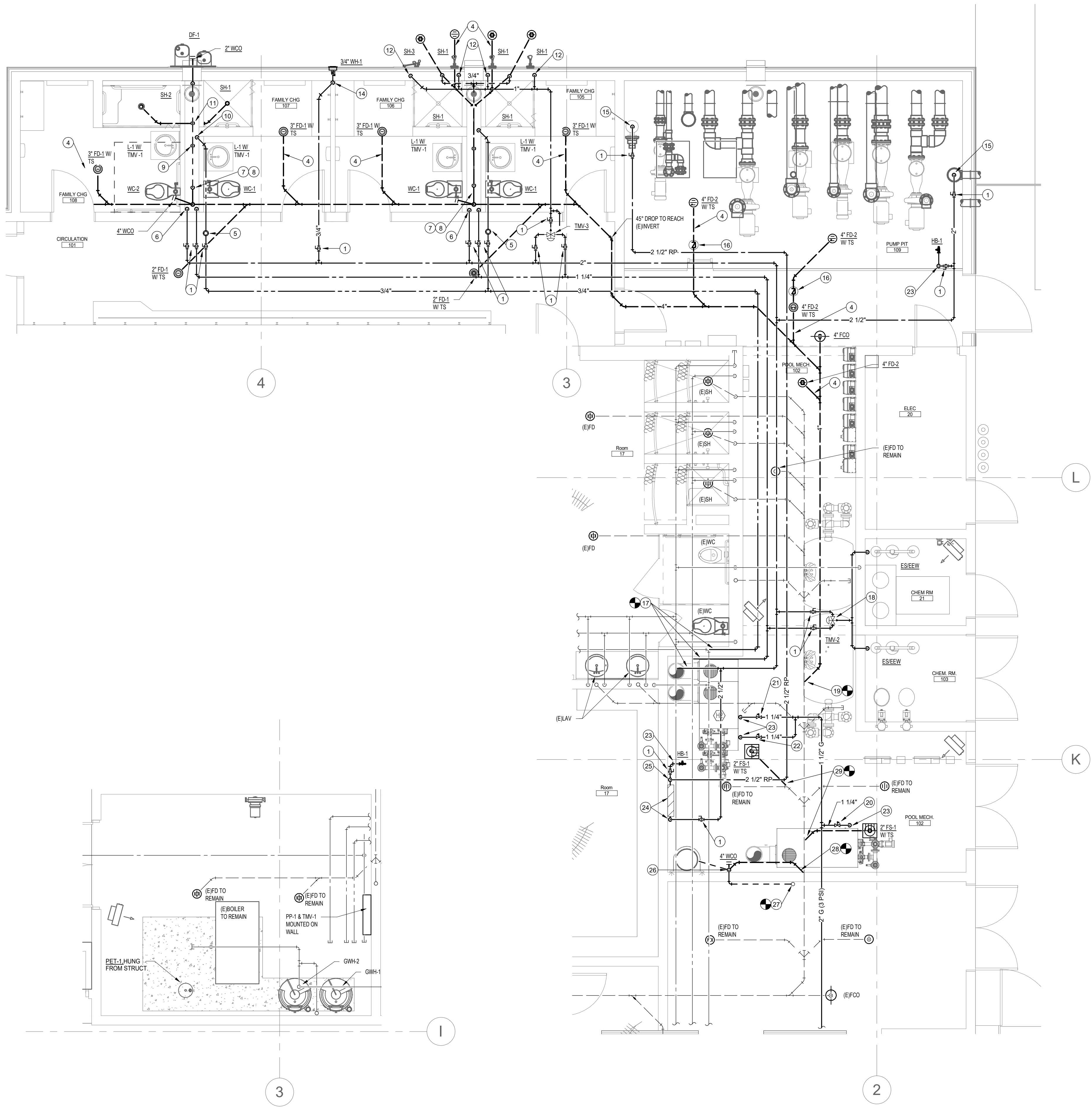
DRAWN BY: NWD

REV'D BY: TRH

PROJECT #: 23079

TITLE: ENLARGED SCALE
PLUMBING PLANS

SHEET #: **P-201**



3 **ENLARGED SCALE PLUMBING PLAN**
P-201 SCALE: 1/4" = 1'-0"

1 ENLARGED SCALE PLUMBING PLAN
P-201 SCALE: 1/4" = 1'-0"



**PRELIMINARY -
NOT FOR
CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

[illegible]

SCALE: NONE

ISSUE DATE: 1/22/2024

DRAWN BY: Author

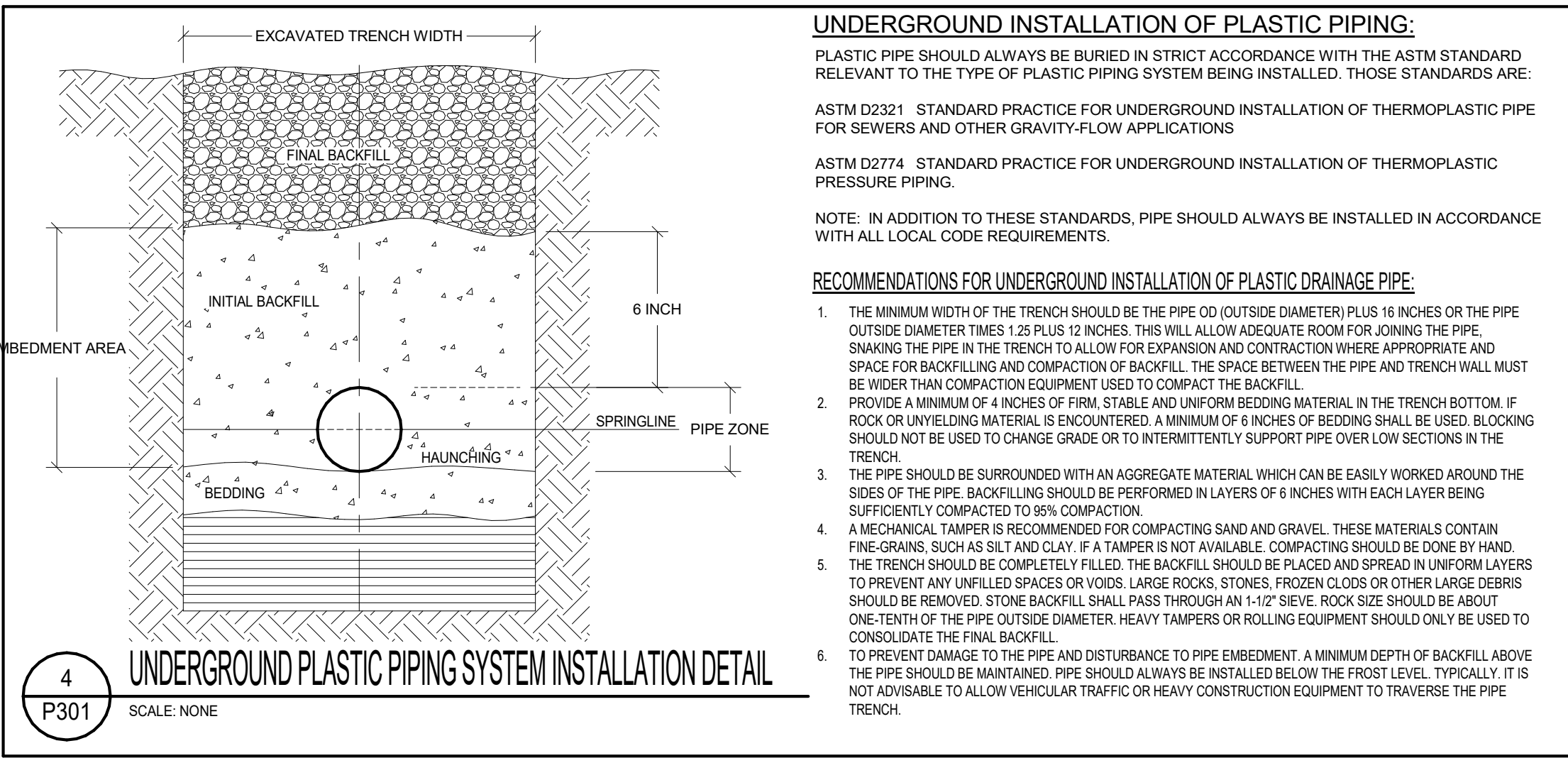
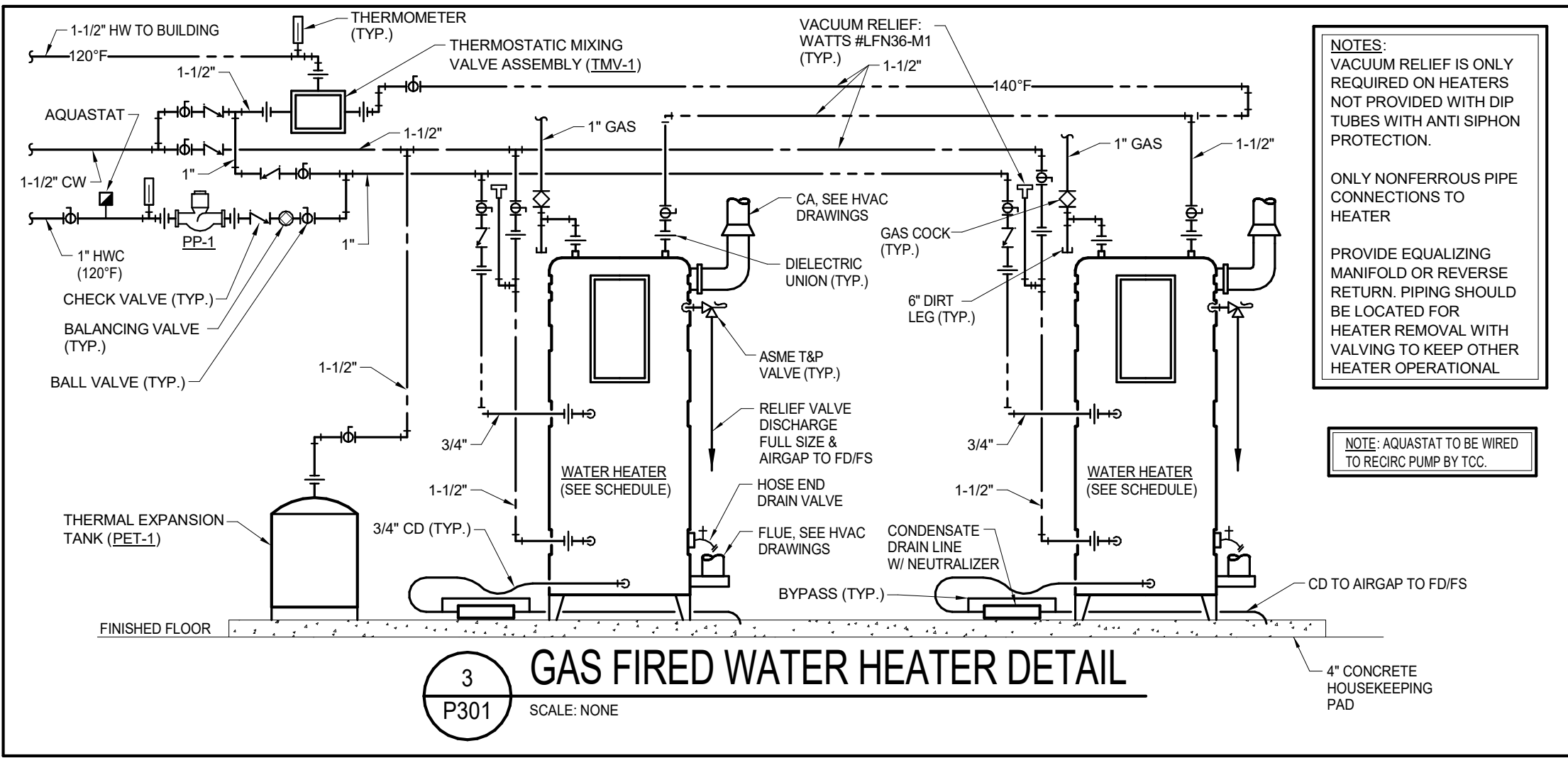
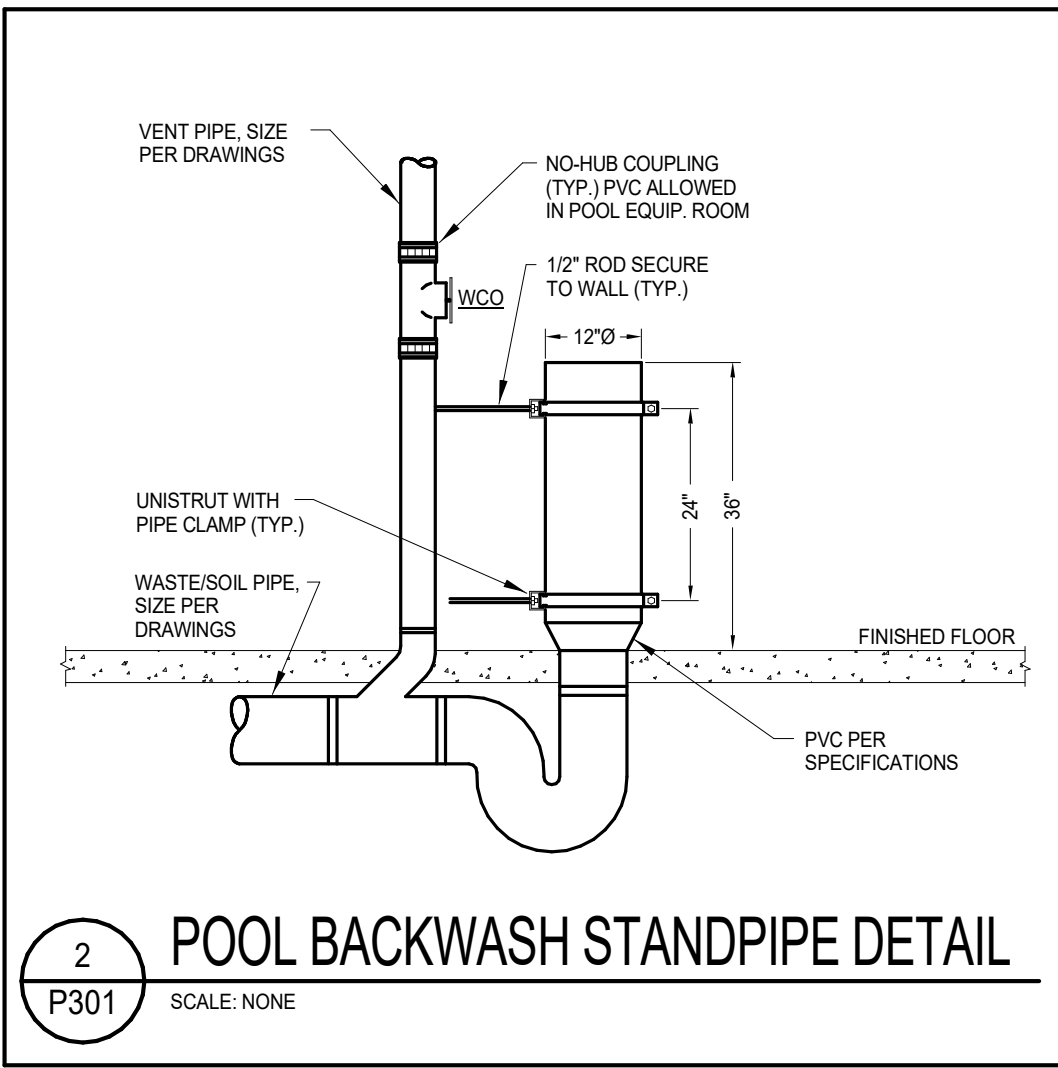
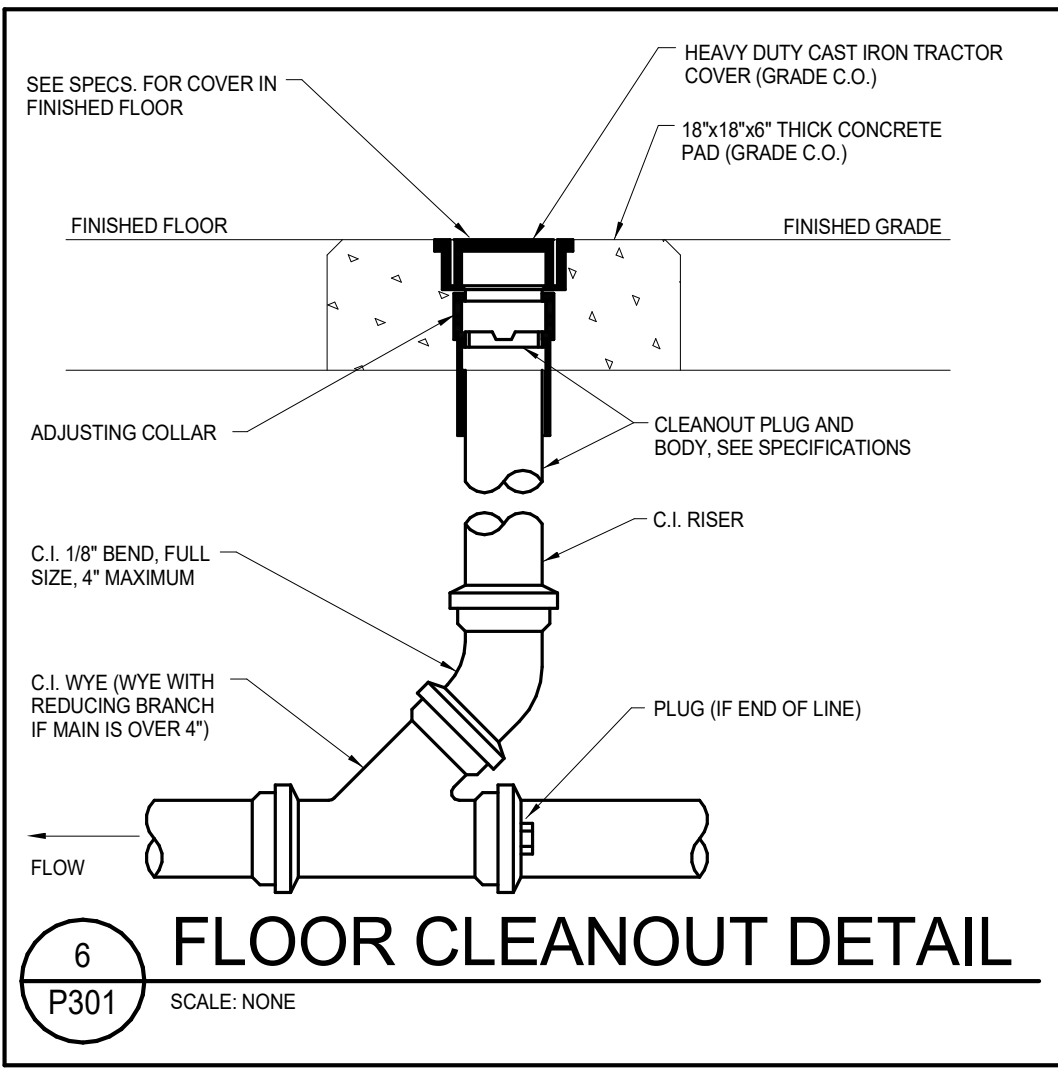
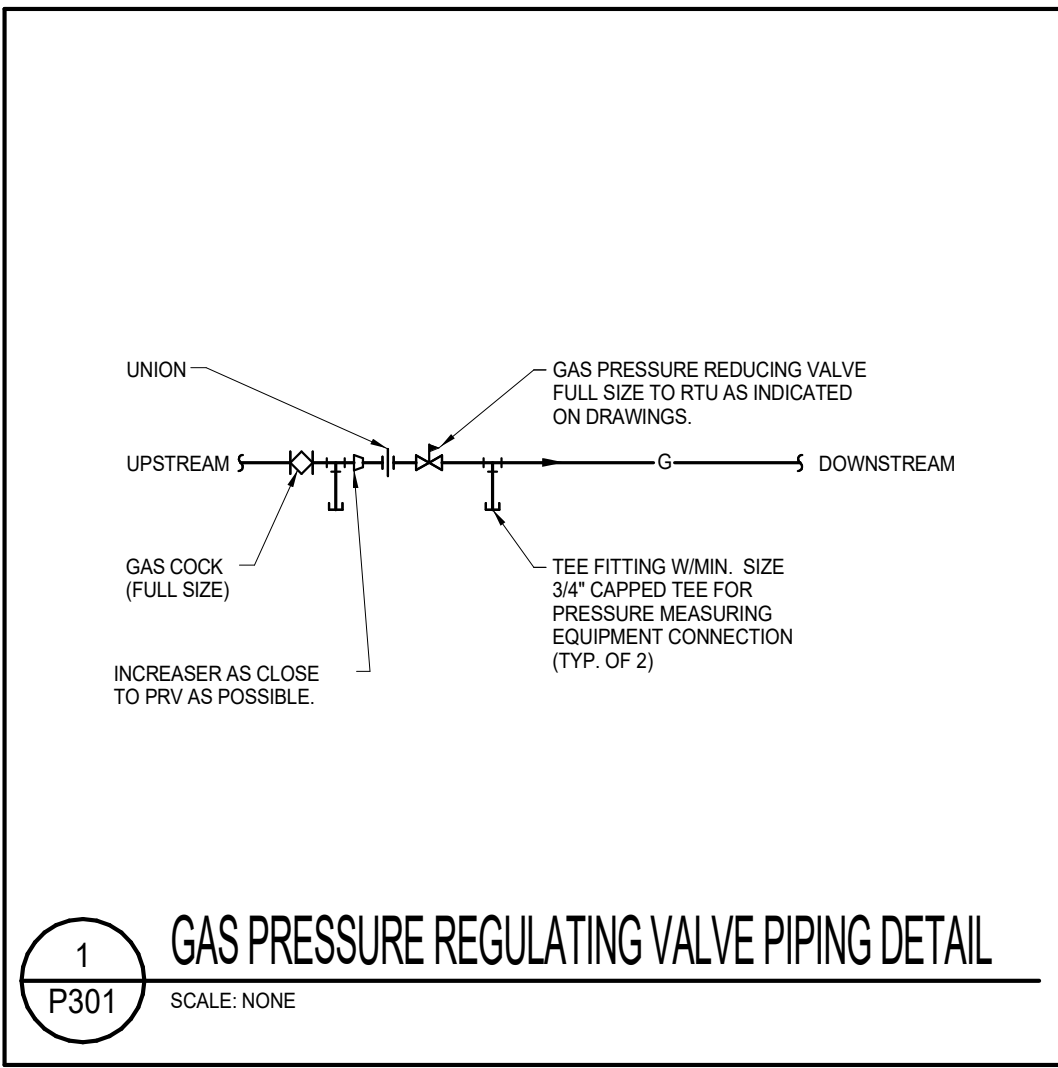
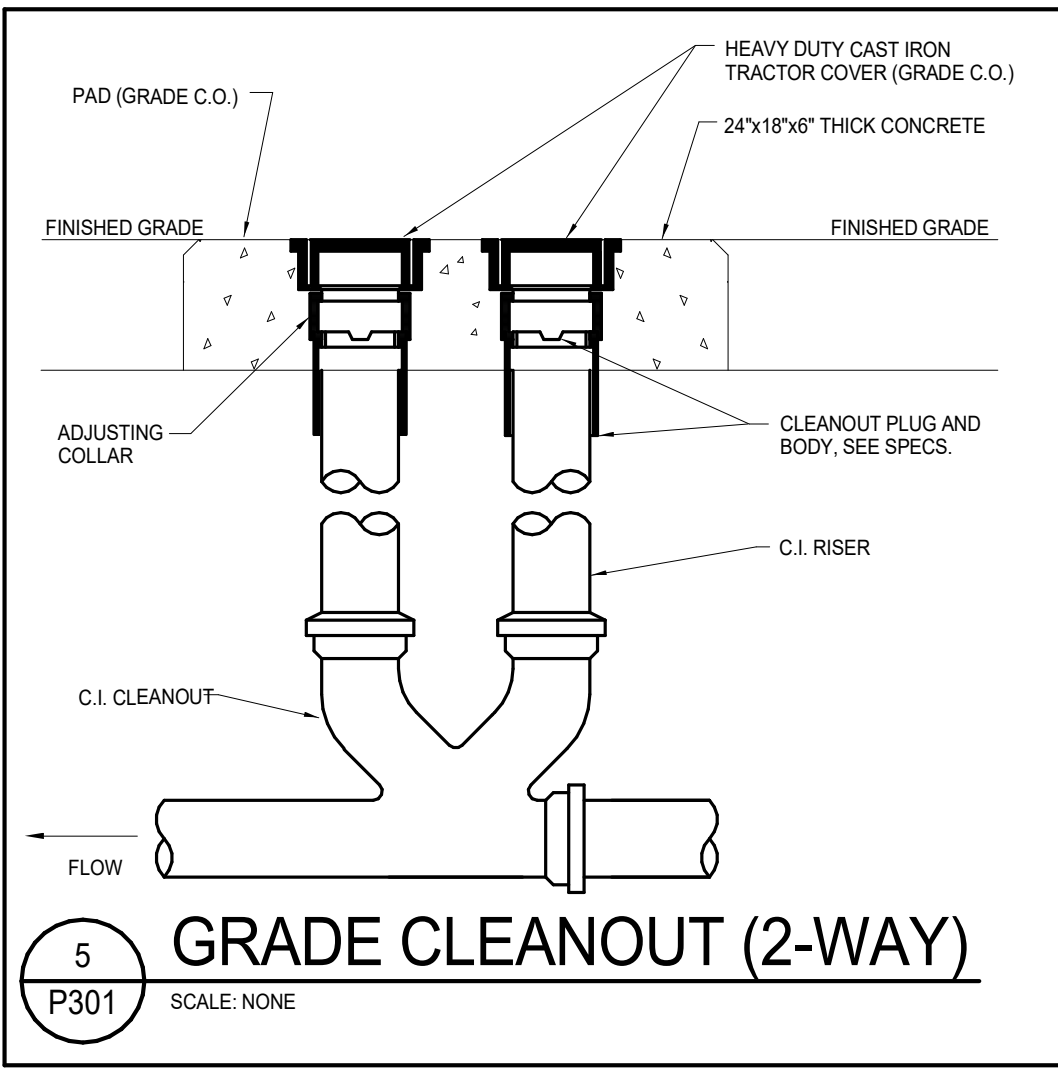
REV'D BY: **Checker**

PROJECT #: 23079

TITLE: PLUMBING DETAILS

SHEET #:

P-301





The Ballard Group, Inc.
Mechanical Consulting Engineers
 2525 S. Wadsworth Blvd., Suite 200
 Lakewood, CO 80227
 (303) 988-4514

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

PLUMBING PUMP SCHEDULE															
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP	VOLTS	PH	RPM				
PP-1	GRUNDFOS UPS 26-99 SFC	IN-LINE	HWC (120°F)		6.0	20'		1/6	115	1		INTEGRAL	NOTE: 1		NOTE: 1
NOTES: 1. 24/7 TIME CLOCK, SET OCCUPIED/UNOCCUPIED VIA/QUASTAT															

[illegible]

P-401

GENERAL NOTES FOR EQUIPMENT	
1.	FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES AND RECOMMENDED OCP SIZING PRIOR TO ENERGIZING CIRCUIT.
2.	PROVIDE 120V CONTROL WIRING AS REQUIRED BY THE MECHANICAL CONTRACT DOCUMENTS. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE MECHANICAL CONTROLS CONTRACTOR SHOULD BE COMPLETED PRIOR TO BIDDING. 120V CONTROL CIRCUITS SHALL BE INCLUDED IN BID.
3.	FURNISH DISCONNECT SWITCHES LOCATED EXTERIOR TO THE STRUCTURE WITH NEMA 3R ENCLOSURES UNLESS OTHERWISE SPECIFIED.
4.	PROVIDE 120V, WEATHER PROOF, GFCI SERVICE RECEPTACLE WITHIN 25'-0" OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION (HACR) EQUIPMENT. EXHAUST FANS ARE NOT CONSIDERED HACR EQUIPMENT BY THE NEC. MAX 10 RECEPTACLES PER CIRCUIT. MOUNT RECEPTACLES VERTICALLY.
5.	PROVIDE DUCT DETECTION FOR ALL RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000CFM, AND FOR ALL RETURN AIR RISERS THAT SERVE TWO OR MORE STORIES AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM, AND ADDITIONALLY AS REQUIRED BY LOCAL CODES AND AMENDMENTS.
6.	REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROLS.
7.	INSTALL DISCONNECTS FOR EQUIPMENT ON THE EQUIPMENT OR LOCATE IMMEDIATELY ADJACENT TO EQUIPMENT. DO NOT INTERFERE WITH UNITS WORKING CLEARANCES FOR MAINTENANCE.

GENERAL NOTES FOR LIGHTING	
1.	ALL SELF CONTAINED EMERGENCY EXITS AND LIGHTS SHALL BE WIRED AHEAD OF THE SWITCHED LEG SO THEY COME ON WHEN POWER IS LOST, NOT WHEN LIGHTS ARE TURNED OFF.

ELECTRICAL POOL COORDINATION NOTES	
1.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120V AND ABOVE WIRING FOR THE POOL. ALL LOW VOLTAGE CONTROL CABLE WILL BE BY THE POOL CONTRACTOR.
2.	VFDs WILL BE PROVIDED BY THE POOL MECHANICAL CONTRACTOR, INTERLOCKS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. .
3.	REFER TO AQUATIC PLANS SHEETS FOR SCHEMATIC WIRING DIAGRAM. ELECTRICAL SHALL PROVIDE CONDUIT FOR ALL POWER FEEDS, ALL LINE VOLTAGE INTERLOCKS AND ALL LOW VOLTAGE WIRE RUNS.
4.	THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE POOL CONTRACTOR THAT ALL STARTERS CONTAIN THE NECESSARY CONTACTS FOR THE POOL CONTROLS.
5.	PROVIDE NEMA 12 ENCLOSURES FOR ALL POOL STARTERS AND DISCONNECTS. MOUNT TO STRUCTURE OR IN SOME CASES A UNISTRUT FRAME.
6.	PROVIDE HAND/OFF/AUTO SWITCHES AND TIMECLOCKS FOR ALL PUMP STARTERS.
7.	CIRC PUMP VFDs WILL HAVE A BYPASS FUNCTION TO ALLOW PUMP MOTOR OPERATION BY BYPASSING THE VARIABLE FREQUENCY DRIVE. THIS WILL BE FURNISHED WITH THE VFD BY POOL CONTRACTOR.
8.	PROVIDE MANUAL SPEED ADJUSTMENT ON VFD STARTERS. THIS SHOULD BE BY A KEYPAD OR DIAL MOUNTED ON THE FRONT OF THE STARTER ENCLOSURE.
9.	VFD MANUFACTURER OR MANUFACTURERS REP MUST PROVIDE FIELD TESTING OF ALL VFD MOTOR DRIVES.
10.	VFDs MUST BE LABELED TO OPERATE BETWEEN 15 AND 110 DEGREES CENTIGRADE AS WELL AS HUMIDITY OF UP TO 90% NON CONDENSING.
11.	FEATURE PUMPS SHALL ONLY OPERATE WHEN THE FILTRATION PUMP IS IN "AUTO" MODE.
12.	ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR POOL CONTRACTORS LOW VOLTAGE CABLE. PROVIDE IN BID AND COORDINATE WITH THE POOL CONTRACTORS REQUIREMENTS.

HOUSE KEEPING PADS	
1.	PROVIDED BY GC. THESE WILL NEED TO BE COORDINATED WITH ELECTRICAL SHOP DRAWINGS AND STRUCTURAL ENGINEER. PADS SHALL BE 4" DEEP AND EXTEND PAST EQUIPMENT BY AT LEAST 4". PROVIDE FOR ALL FLOOR MOUNTED EQUIPMENT INCLUDING MAIN GEAR, SERVICE DISCONNECT AND CT CABINET OUTSIDE AND TRANSFORMERS. TRANSFORMERS HAVE BEEN LINED UP WHERE POSSIBLE SO A SINGLE PAD CAN BE PROVIDED FOR PADS BEING POURED ON THE SLAB ON VOID.

POOL BONDING REQUIREMENTS

1. THE POOL CONCRETE REINFORCING STEEL REBAR SHALL BE BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS AN EQUIPOTENTIAL BONDING GRID FOR ALL PARTS REQUIRED BY THE 2017 NEC 680.26 TO BE BONDED TOGETHER. BONDING LUGS TO BE SUPPLIED BY POOL CONTRACTOR.
2. WHERE REINFORCING STEEL OF THE POOL SHELL OR THE REINFORCING STEEL OF COPING STONES AND DECK IS ENCAPSULATED WITH A NONCONDUCTIVE COMPOUND OR ANOTHER CONDUCTIVE MATERIAL IS NOT AVAILABLE, PROVISIONS SHALL BE MADE FOR AN ALTERNATIVE MEANS TO ELIMINATE VOLTAGE GRADIENTS THAT WOULD OTHERWISE BE PROVIDED BY UNENCAPSULATED, BONDED REINFORCING STEEL. THESE PROVISIONS ARE AS FOLLOWS:
 - A. CREATE AN EQUIPOTENTIAL BONDING GRID CONSTRUCTED OF MINIMUM 8 AWG BARE SOLID CONDUCTORS. CONDUCTORS SHALL BE BONDED TO EACH OTHER AT ALL POINTS OF CROSSING. CONNECTIONS SHALL BE MADE AS REQUIRED BY 680.26(B).
 - B. THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE POOL AND THE POOL DECK EXTENDING 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL. THE GRID SHALL BE ARRANGED IN A 12" X 12" NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 4".
 - C. THE BELOW-GRADE GRID SHALL BE SECURED WITHIN OR UNDER THE POOL AND DECK MEDIA.
3. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE EQUIPOTENTIAL BONDING GRID:
 - A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
 - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
 - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
 - D. METAL PARTS ASSOCIATED WITH POOL COVERS.
 - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL.
 - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
4. ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT PENETRATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
5. BONDING CONDUCTORS SHALL BE MINIMUM 8 AWG SOLID COPPER. ELECTRICAL CONTRACTOR SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
6. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
7. THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
8. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE EQUIPOTENTIAL BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
9. ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.

GENERAL NOTES FOR ALL DRAWINGS

1. UNLESS OTHERWISE NOTED, ITEMS SHOWN ON THE DRAWINGS SHALL BE AS FOLLOWS:
LIGHT LINE WEIGHT = EXISTING TO REMAIN
DARK LINE WEIGHT = NEW OR RELOCATED
CROSS-HATCHING = TO BE REMOVED
2. FOR 120V, 20-AMPERE BRANCH CIRCUITS, PROVIDE THE FOLLOWING SIZE CONDUCTORS:
0-100 FEET: 12 AWG
101-175 FEET: 10 AWG
176-265 FEET: 8 AWG
THE DISTANCES INDICATED REPRESENT THE CONDUCTOR LENGTH FROM THE PANELBOARD TO THE FARTHEST OUTLET ON THE CIRCUIT.
3. TWO-CIRCUIT MULTIWIRED BRANCH CIRCUITS ARE PROHIBITED.
4. UNDERGROUND RACEWAYS AND RACEWAYS EMBEDDED IN SLABS: ALL ELBOWS AND VERTICAL RISERS (STUB-UPS) SHALL BE PVC-COATED RIGID METAL CONDUIT (RMC). THIS INCLUDES ALL SERVICE, FEEDER, BRANCH CIRCUIT, AND SYSTEMS RACEWAYS.
5. SUBMITTAL COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF THE MECHANICAL, POOL, AND OTHER EQUIPMENT SUBMITTALS REQUIRING ELECTRICAL CONNECTION(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ROUGH-IN OF ANY DISCREPANCIES BETWEEN THE ELECTRICAL CHARACTERISTICS INDICATED ON THE CONSTRUCTION DOCUMENTS AND THOSE LISTED ON THE SUBMITTAL DOCUMENTS.
6. THE ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF:
 - A. BUILDING DEPARTMENT
 - B. CITY, COUNTY, AND STATE LAWS, ORDINANCES, AND AMENDMENTS.
 - C. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
 - D. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
 - E. THE RULES, REGULATIONS, AND STANDARDS OF THE UTILITY COMPANY SUPPLYING ELECTRIC SERVICE TO THE BUILDING.
12. SHOULD ANY CHANGE TO THE CONSTRUCTION DOCUMENTS BE REQUIRED TO COMPLY WITH GOVERNMENTAL OR UTILITY REGULATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO EXECUTION OF THE WORK. THIS WORK SHALL BE CARRIED OUT ACCORDING TO THE APPLICABLE REQUIREMENT(S) WITH THE INSTRUCTION OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
13. UTILITIES: THE CONTRACTOR SHALL COOPERATE FULLY WITH THE LOCAL UTILITY COMPANIES WITH RESPECT TO THEIR SERVICES. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY COSTS TO BE INCURRED RELATIVE TO THE POWER SERVICE (PRIMARY AND/OR SECONDARY), TELEPHONE SERVICE, DATA SERVICE, TV SERVICE AND CITY FIBER SERVICE.
14. ELECTRICAL CONTRACTOR SHALL HAVE THE MANUFACTURER OF ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS AND METER ENCLOSURES PROVIDE ARC-FLASH HAZARD WARNING SIGNS PER NEC 110.16. ARC FLASH CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER IN THE SHOP DRAWINGS FOR APPROVAL.
15. DRAWINGS WILL CALL OUT SPECIFIC PARTS IN AREAS, THESE ARE NOT INTENDED TO BE A SOLE SOURCE ITEM. THESE ARE THE BASIS OF DESIGN. OWNER, ARCHITECT AND ENGINEER APPROVED EQUALS ARE FINE PENDING THEY MEET ALL SPECIFICATIONS SHOWN ON THE PLANS AND SPECIFICATION BOOKLET.
16. PROVIDE SCHEDULE 40 PVC CONDUITS IN POOL PUMP HOUSE.
17. ALL SITE CIRCUITS, 120V, SHALL BE #10 COPPER UNLESS OTHERWISE NOTED ON PLANS.
18. EXPOSED CONDUIT SHALL BE KEPT TO A MINIMUM IN THE BATHHOUSE. EXPOSED CONDUITS WILL BE ALLOWED IN THE UTILITY ROOM, JANITOR CLOSET, AND PLUMBING CHASES. ELECTRICAL CONTRACTOR SHALL RUN CONDUITS UNDERGROUND THEN STUB UP INTO CMU WALLS. FOR ITEMS MOUNTED TO THE CEILING CONDUITS SHALL BE RUN IN CEILING CAVITY. IF EXPOSED CANNOT BE AVOIDED PRIOR TO ROUGH-IN PROVIDE THE ARCHITECT AND ENGINEER WITH ROUTING IN AN RFI. EXPOSED CONDUITS SHALL BE RUN IN GROUPS, TIGHT TO THE DECK, AND PAINTED. THIS MUST BE ACCOUNTED FOR IN BID. ELECTRICAL CONTRACTOR SHALL PASS THIS ONTO HIS SUBS. NO EXPOSED CABLE. ALL CONDUITS RUN IN WALLS AND CEILING CAVITY.
19. USE GALVANIZED HANGERS AND UNISTRUT FOR ALL SUPPORT SYSTEMS.
20. THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT SHALL BE FIELD MARKED PER FAULT CURRENT CALCULATION AS "___ A" AND DATED "___, ___, ___" PER NEC 110.24(A).

SCHEMATIC COORDINATION NOTES	
1.	REFER TO AQUATIC AND MECHANICAL PLANS AND NARRATIVES FOR THEIR SCOPE. ELECTRICAL WILL PROVIDE CONDUCTORS, CONDUIT AND DISCONNECTS FOR ALL POOL AND MECHANICAL EQUIPMENT.

ELECTRICAL DEMOLITION NOTES	
1.	EXISTING BUILDING AND SITE ELECTRICAL IS TO BE COMPLETELY REMOVED. CIVIL PLANS INDICATE THE EXISTING BUILDING AND SITE BEING REMOVED.
2.	EXISTING WIRE AND CONDUITS SHOULD BE REMOVED. EXISTING CONDUITS CAN BE REUSED TO THE EXTENT POSSIBLE FOR EXISTING ITEMS BEING REPLACED AND REUSED FROM THE NEW BUILDING. BUT ALL NEW WIRE SHOULD BE PROVIDED NO MATTER WHAT.
3.	THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT AS INDICATED ON DEMO PLANS. DISCARD ALL EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ELECTRICAL SERVICE TO DEVICES AND EQUIPMENT AND PROVIDING TEMPORARY POWER.



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**

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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL GENERAL NOTES

SHEET #:

E002

1 ELECTRICAL SITE PLAN
1" = 20'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P3	PROVIDE RED MUSHROOM HEAD EPO SWITCH TO TURN OFF OPEN FLUME SLIDE PUMP. PP2. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "OPEN FLUME SLIDE EMERGENCY SHUTOFF".
P7	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF CLOSED FLUME SLIDE PUMP. PP3. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "CLOSED FLUME SLIDE EMERGENCY SHUTOFF".
P8	POLE MOUNTED CAMERA. PROVIDE 120V TO CAMERA.



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**

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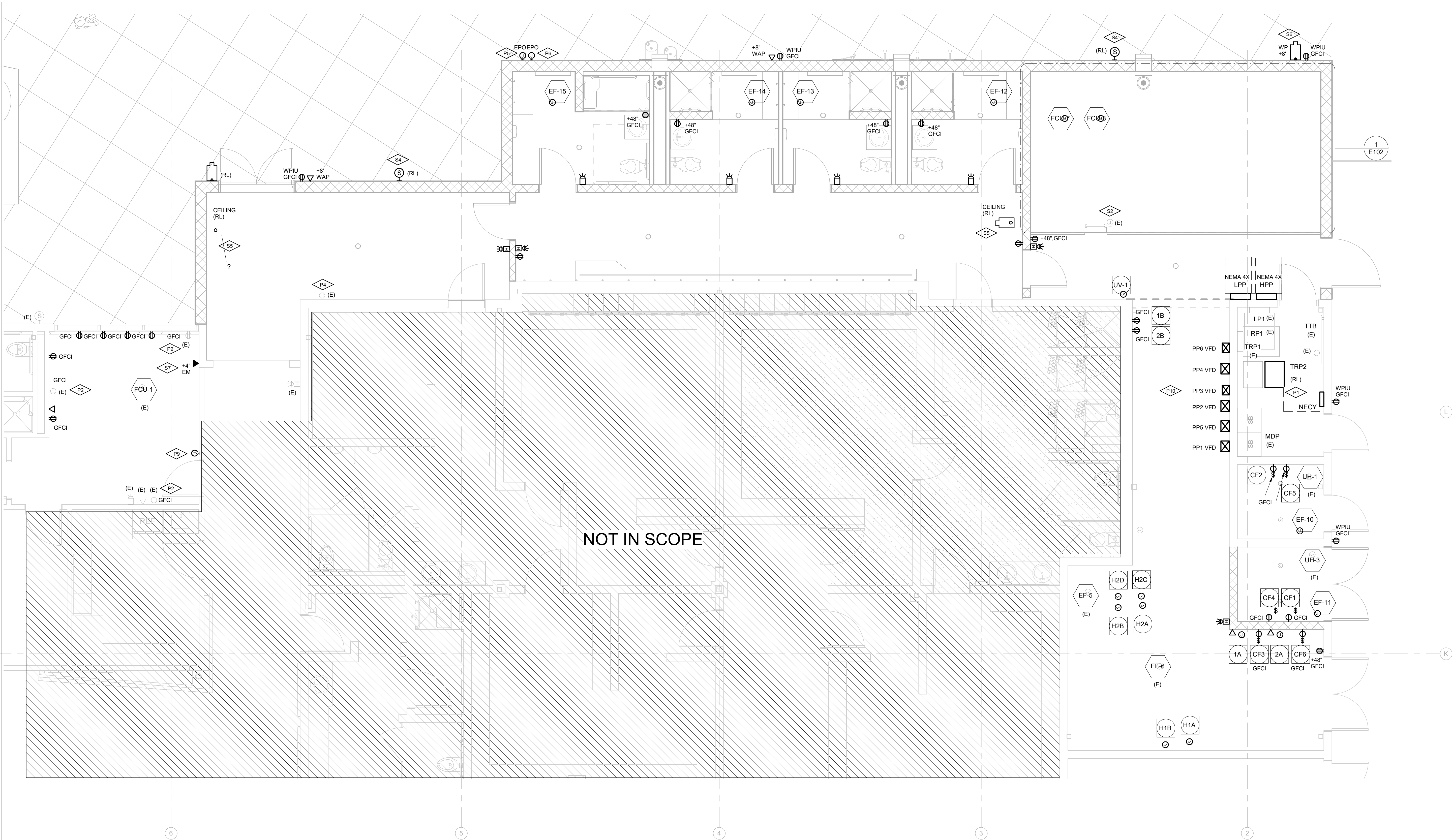
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SCALE: 1" = 20'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: ELECTRICAL SITE PLAN

SHEET #:

E100

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1/22/2024 3:32:15 PM



1 FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P1	MOUNT RELOCATED 75KVA TRANSFORMER ABOVE EXISTING. SUSPEND FROM STRUCTURE. REFER TO DETAIL 1 SHEET E510.
P2	REPLACE EXISTING NEMA 5-20R OUTLET WITH NEW NEMA 5-20R GFCI DEVICE.
P4	PROVIDE A NEW NEMA 5-20R DEVICE AND CONNECT TO EXISTING CIRCUIT.

KEYNOTE LEGEND	
Key Value	Keynote Text
P5	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LAP POOL CIRCULATION PUMP, PP1, AND ALL PUMPS INTERLOCKED WITH IT. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LAP POOL EMERGENCY SHUTOFF".

KEYNOTE LEGEND	
Key Value	Keynote Text
P6	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LEISURE POOL CIRCULATION PUMP. PP5 AND ALL PUMPS INTERLOCKED WITH IT. PP4 AND PP6. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LEISURE POOL EMERGENCY SHUTOFF".

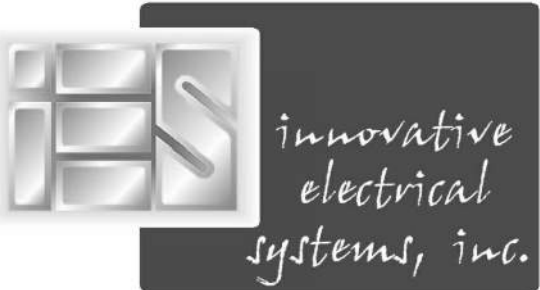
KEYNOTE LEGEND	
Key Value	Keynote Text
P9	PROVIDE (4) REMOTE START/STOP PUSHBUTTONS AT THIS LOCATION. (1) FOR OPEN FLUME SLIDE PUMP PP2 LABELED "OPEN FLUME SLIDE", (1) FOR CLOSED FLUME SLIDE PUMP PP3 LABELED "OPEN FLUME SLIDE", (1) FOR CURRENT CHANNEL PUMP PP4 LABELED "CURRENT CHANEL", (1) FOR SPRAY FEATURES PUMP PP6 LABELED "SPRAY FEATURE".
P10	VFD DRIVES ARE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. TYPICAL (6) ALONG THIS WALL.

KEYNOTE LEGEND	
Key Value	Keynote Text
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.
S4	MOUNT RELOCATED SPEAKERS AS HIGH UP ON WALL AS POSSIBLE. RECONNECT TO EXISTING SOUND SYSTEM.
S5	RELOCATED CAMERA FROM OUTSIDE.
S6	NEW WALL MOUNTED CAMERA, MATCH EXISTING CAMERA MANUFACTURER.

KEYNOTE LEGEND	
Key Value	Keynote Text
S7	PROVIDE EMERGENCY PHONE WITH DIRECT DIAL TO "911" WHEN PICKED UP.



2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com



8093 West 18th Lane
Lakewood, CO 80227
303-807-7181
hij@iesystems-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR POWER & SYSTEMS PLAN

SHEET #:

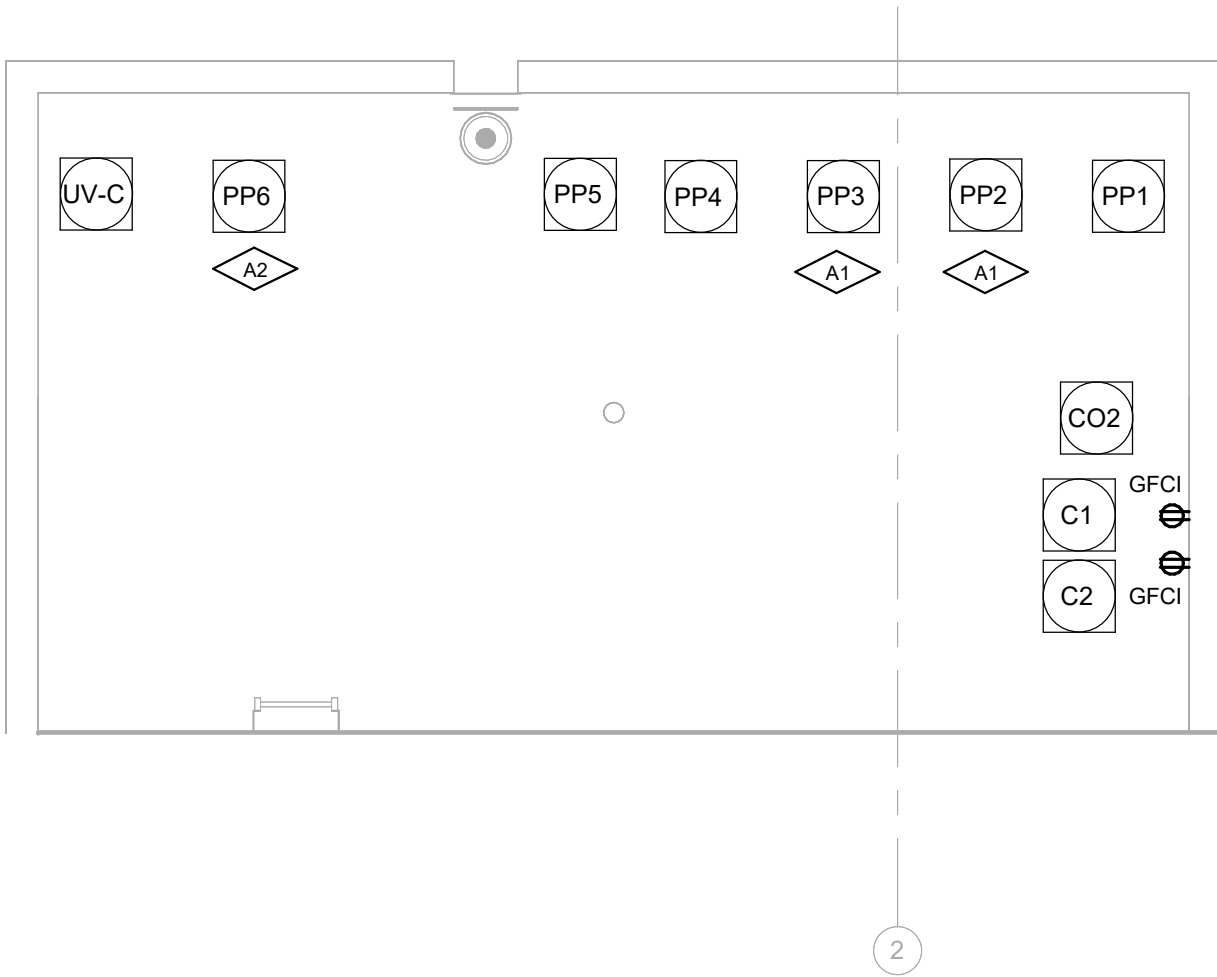
E101



**NOT FOR
CONSTRUCTION**



KEYNOTE LEGEND	
Key Value	Keynote Text
A1	PRICE ALL PARTS ASSOCIATED WITH SLIDE PUMPS AS ALTERNATE #1.
A2	PRICE ALL PARTS ASSOCIATED WITH THE SPRAY FEATURE PUMP AS ALTERNATE #2.



1 POOL PIT POWER PLAN
1/4" = 1'-0"

MECHANICAL ROOM NEW PLUMBING
EQUIPMENT
② 1/4" = 1'-0"

[illegible]

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: DETAIL ELECTRICAL PLANS

SHEET #

E102



*innovative
electrical
systems, inc.*

8093 West 11th Lane
Lakewood, CO 80227
303-807-7181
kly@iesystems-inc.com

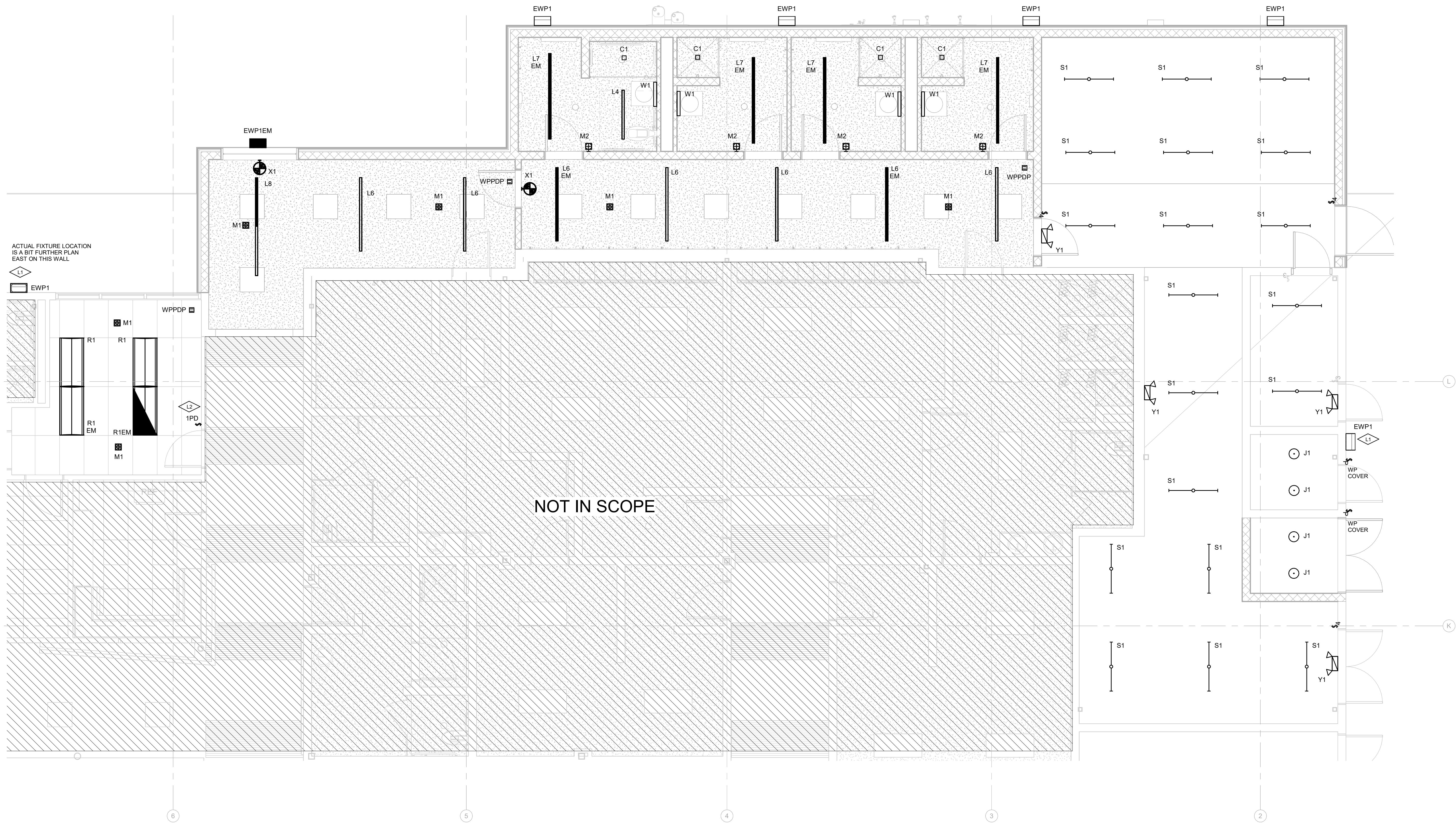
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: ELECTRICAL LIGHTING PLAN

SHEET #:

E111



1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
L1	NEW LIGHT REPLACES EXISTING LIGHT ONE FOR ONE. CONNECT TO EXISTING CIRCUIT AT THIS LOCATION.
L2	SWITCH WILL BE POWERED BY EXISTING 277V CIRCUIT AT THIS LOCATION.



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CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

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NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE:

ISSUE DATE: 01/22/2024

PROJECT #: 23079

TITLE: ELECTRICAL ONE-LINE
DIAGRAM

SHEET #

E501





*innovative
electrical
systems, inc.*

8093 West 11th Lane
Lakewood, CO 80227
303-807-7181
kly@iesystems-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:

ISSUE DATE: 01/22/2024

PROJECT #: 23079

TITLE: ELECTRICAL DETAILS

SHEET #:

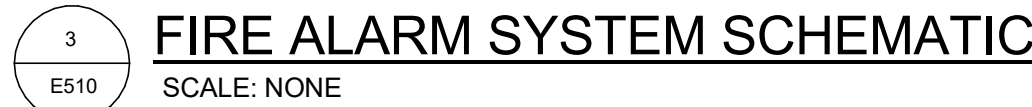
E510



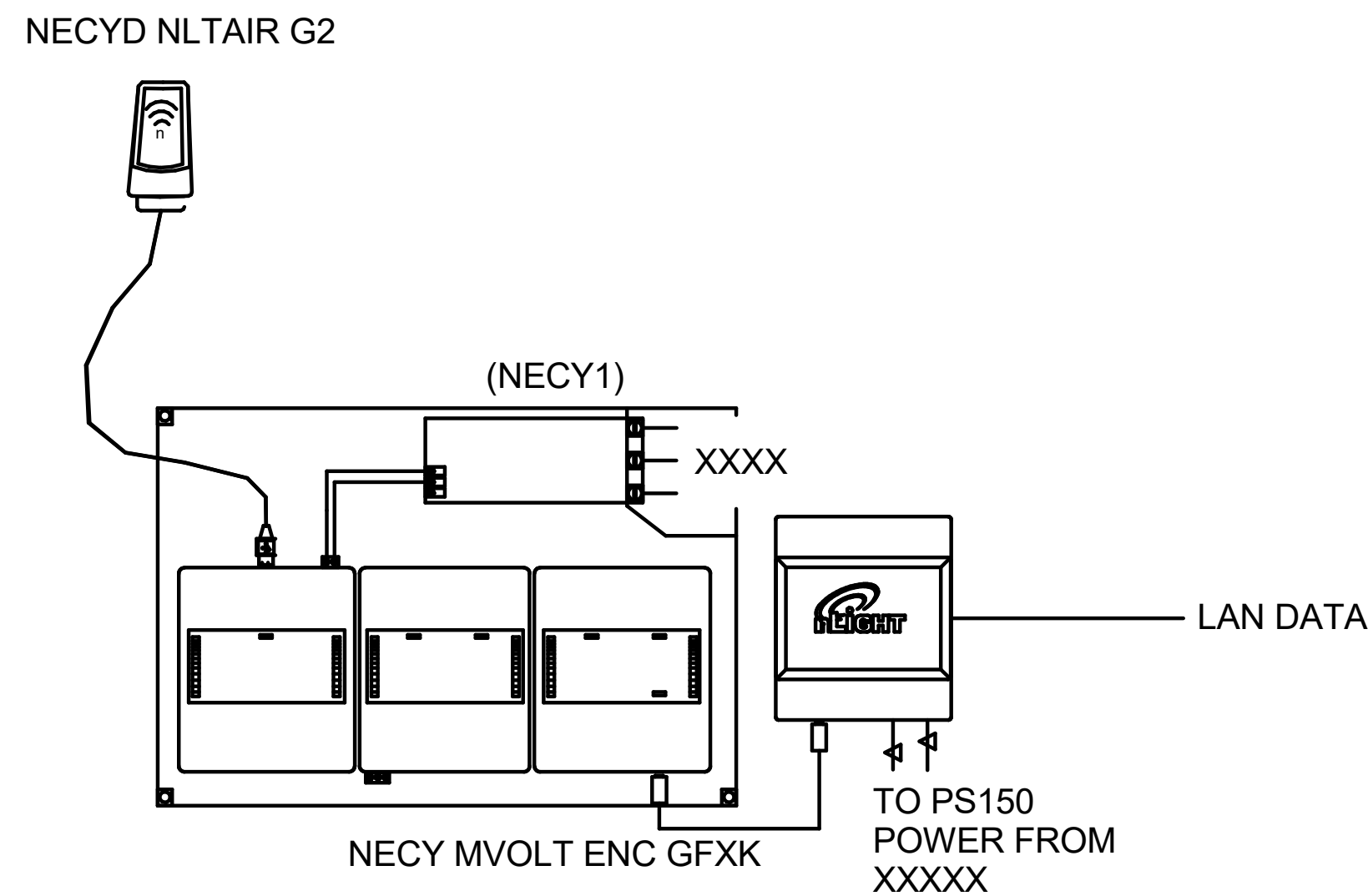
1. ALL TRANSFORMERS ARE FLOOR MOUNTED UNLESS NOTED OTHERWISE ON PLANS. THIS DETAIL SHALL ONLY BE USED WHEN IT IS REFERENCED FROM THE PLANS.
2. FASTEN VIBRATION HANGER RIGIDLY TO STRUCTURE ABOVE. SIZE TO ACCOMMODATE TRANSFORMER WEIGHT. BOLT TRANSFORMER TO STRUT.
3. USE FLEXIBLE METAL CONDUIT TO CONNECT PRIMARY AND SECONDARY FEEDERS TO TRANSFORMER HOUSING.
4. MOUNT BOTTOM OF TRANSFORMER SUPPORTS AS HIGH AS POSSIBLE, BUT NO LOWER THAN 6'-8" AFF.
5. MAINTAIN MANUFACTURER'S RECOMMENDED VENTILATION REQUIREMENTS.



1. MOUNT ELECTRICAL DEVICES AT HEIGHTS SHOWN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. VERIFY DEVICE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.



1. THERE IS AN EXISTING FIRE ALARM SYSTEM THAT SHALL BE REUSED. CONNECT NEW DEVICES TO EXISTING SYSTEM.
2. PROVIDE WIRING AS DIRECTED BY FIRE ALARM SYSTEM MANUFACTURER. CABLE ONLY NEEDS TO BE IN 3/4" CONDUIT WHEN ABOVE INACCESSIBLE CEILINGS. CABLE CAN BE RUN OPEN ABOVE ACCESSIBLE CEILINGS AND OPEN AREAS. ONLY AREA EXPOSED CABLE IS NOT ALLOWED IS THE LOBBY.
3. INSTALL CONTROL MODULES WITHIN 3'-0" OF DEVICE OR EQUIPMENT BEING CONTROLLED.
4. PROVIDE REMOTE POWER SUPPLIES AS REQUIRED. MOUNT IN ELECTRICAL ROOMS OR IDF ROOMS. PROVIDE 20% SPARE CAPACITY ON ALL INITIATION AND NOTIFICATION CIRCUITS.
5. COORDINATE WITH FIRE SPRINKLER CONTRACTOR FOR QUANTITIES AND LOCATIONS OF ALL FLOW AND TAMPER SWITCHES.
6. ALL DEVICES INSTALLED IN DAMP, WET OR EXTERIOR LOCATIONS SHALL BE FURNISHED WITH WP HOUSINGS.
7. THE ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INDICATE A SUPERVISORY CONDITION AT THE FIRE ALARM CONTROL PANEL, NOT A GENERAL BUILDING ALARM.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE APPROPRIATE STAMP AND SEAL OF A REGISTERED ENGINEER ON THE FIRE ALARM SHOP DRAWINGS. THE ENGINEER OF RECORD FOR THESE DOCUMENTS SHALL NOT BE RESPONSIBLE FOR STAMPING AND SEALING THE FIRE ALARM SHOP DRAWINGS.
9. THE ELECTRICAL CONTRACTOR AND THEIR FIRE ALARM VENDOR/ SUB-CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM THAT MEETS ALL APPROPRIATE BUILDING AND LIFE SAFETY CODES. THE FIRE ALARM DEVICES SHOWN ON THESE DOCUMENTS ARE INDICATED TO DEFINE SCOPE OF WORK ONLY. ALL REQUIRED DEVICES MAY NOT BE SHOWN.
10. THE INTENT OF THIS DIAGRAM IS TO SHOW NEW CONNECTIONS. EXISTING CONNECTIONS SHALL REMAIN AS IS, OR IF A NEW PANEL IS REQUIRED CONNECTED TO THE NEW PANEL.

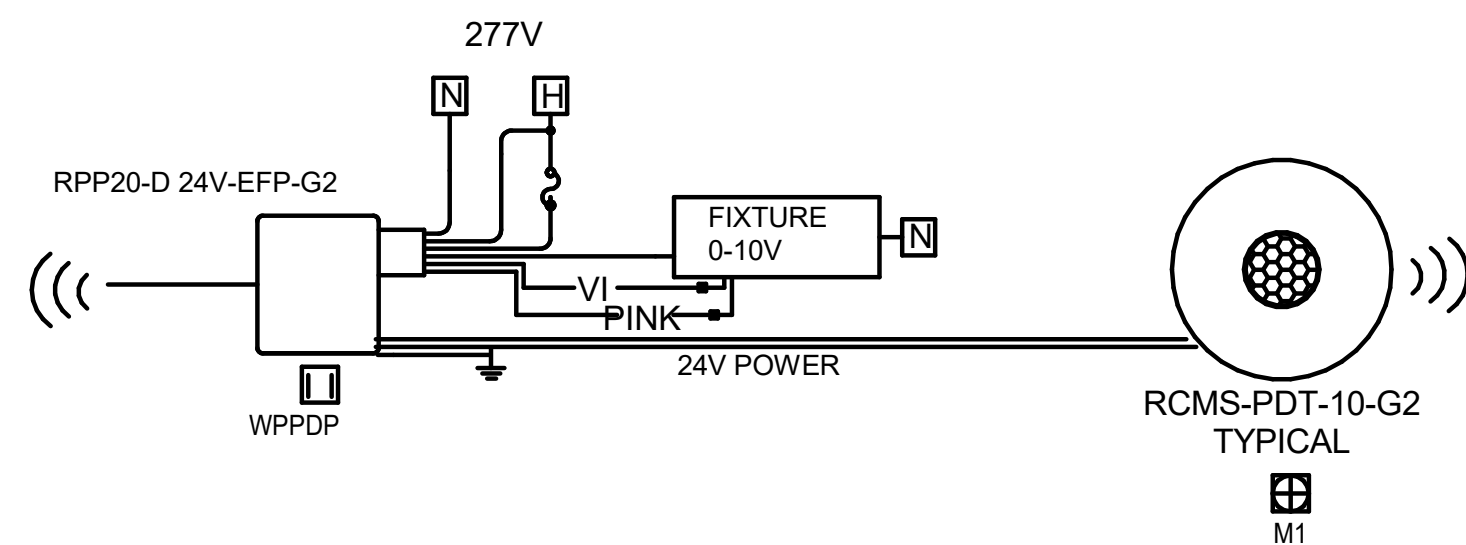


EXTERIOR LIGHT WIRELESS CONTROL

SCALE: NONE

NOTES:

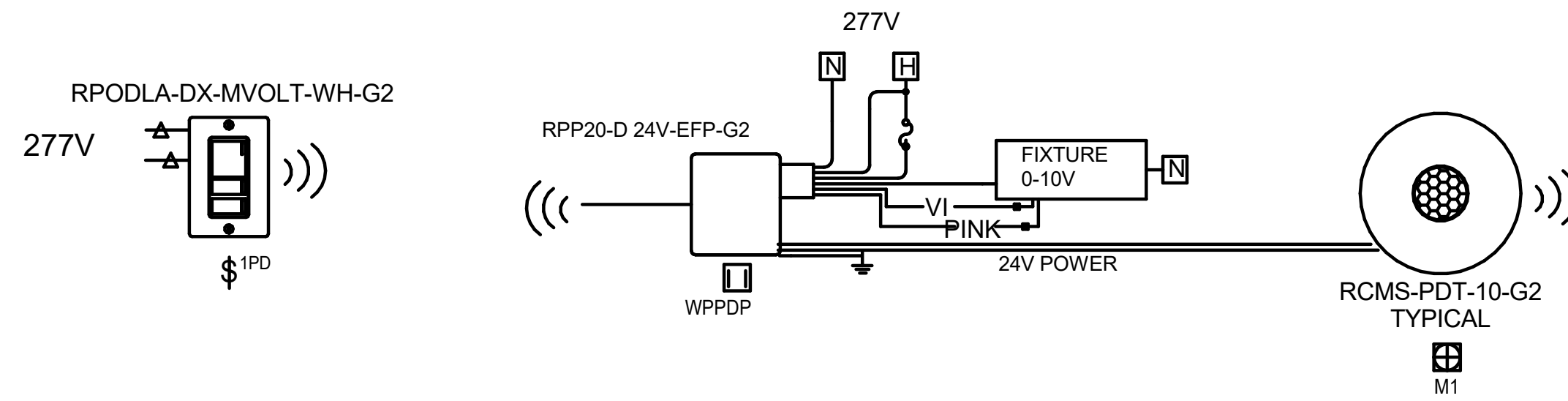
- NOTES:
1. MOUNT WIRELESS ANTENNA ON THE NORTH EXTERIOR WALL OF THE ELECTRICAL ROOM.
 2. PROGRAM WITH OWNER. EXTERIOR LIGHTS SHALL BE TIMECLOCK ON/OFF WITH A PHOTOCELL OVERRIDE.
 3. USE LAN LINE TO CONNECT CONTROL SYSTEM INTO BUILDINGS NETWORK. PROGRAM WITH AURORA IT SO THAT OWNER CAN GAIN ACCESS TO CONTROL EXTERIOR LIGHTS FROM A BUILDING COMPUTER OR REMOTELY.



LIGHITNG CONTROL SCHEMATIC MOTION ON/OFF

N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 5 MINUTE DIM TO 50%. 20 MINUTE OFF..



LIGHTING CONTROL SCHEMATIC MOTION AND DIMMER SWITCH

N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 20 MINUTE TIME OUT.

LIGHTING CONTROL SCHEDULE				
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	NOTES
1PD	ON/OFF/DIM SWITCH	NLIGHT	RPODLA-DX-MVOLT-WH-G2	
M1	CEILING MOUNTED, DUAL TECH, WIRELESS COMMUNICATION, MOTION SENSOR	NLIGHT	RCMS-PDT-10-G2	POWER FROM RELAY PACK IN ROOM
M2	WALL MOUNTED, DUAL TECHNOLOGY MOTION SENSOR WITH ON/OFF SWITCH	SENSOR SWITCH	WSXA-PDT-VA-WH-LT	SET TO VACANCY MODE
WPPDP	RELAY PACK, WIRELESS COMMUNICATION, POWER TO MOTION SENSORS	NLIGHT	RPP20-D 24V-EFP-G2	

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NO.	DATE:	TITLE/PURPOSE:
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01/22/2024	100% DESIGN DEVELOPMENT
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SCALE:

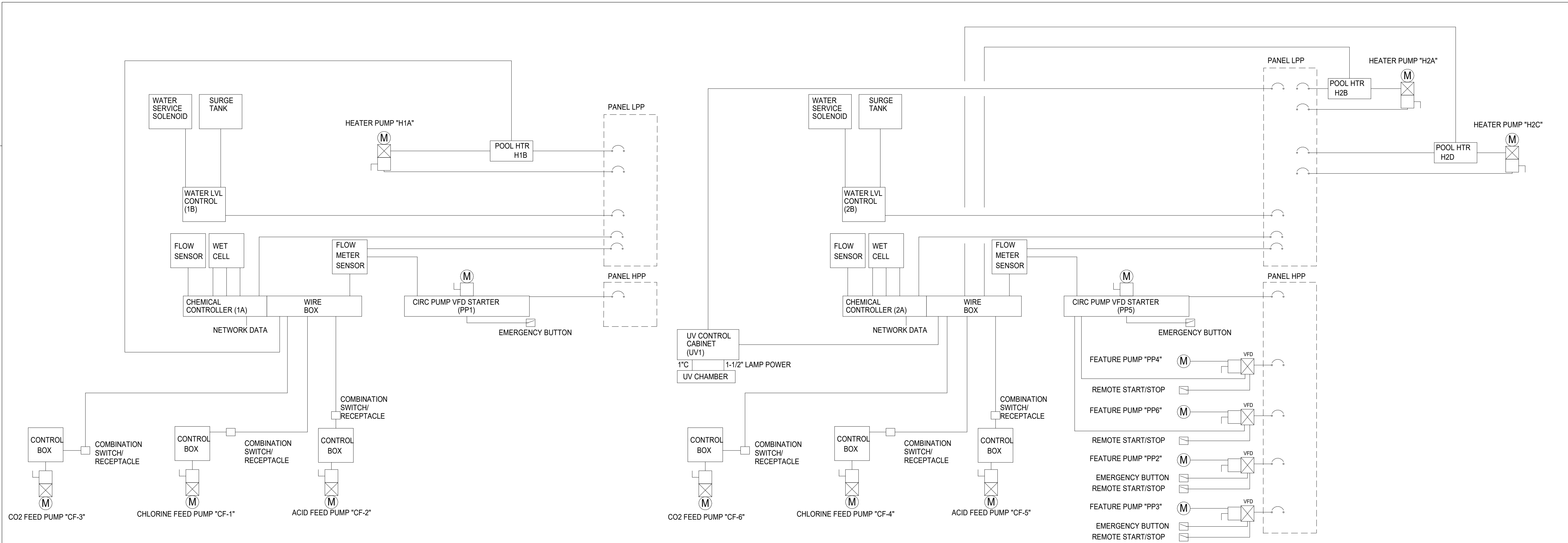
ISSUE DATE: 01/22/2024

PROJECT #: 23079

TITLE: ELECTRICAL LIGHTING
DETAILS

SHEET #

E520



1
E530
LAP POOL WIRING SCHEMATIC
SCALE: NONE

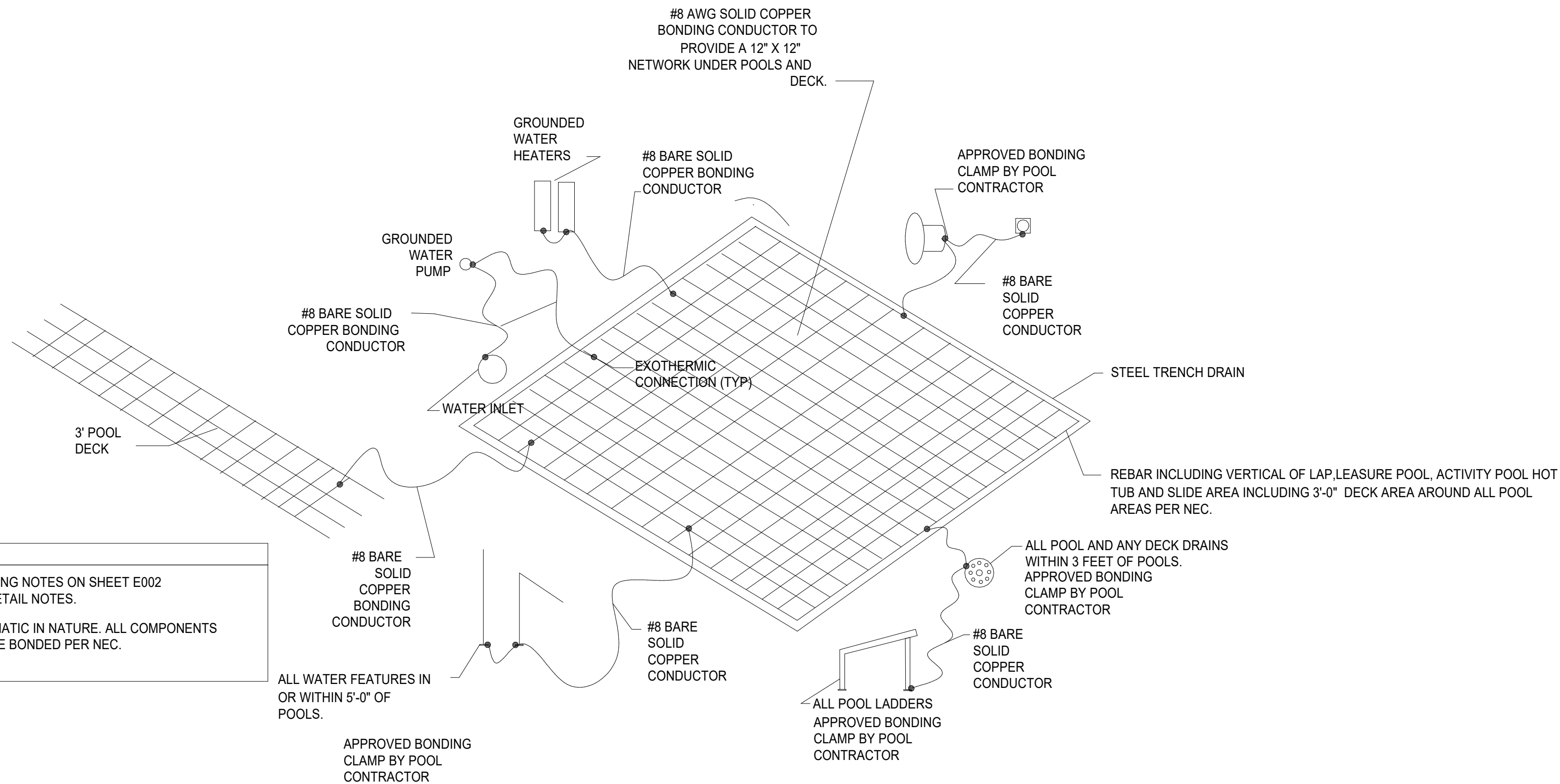
2
E530
REC POOL WIRING SCHEMATIC
SCALE: NONE

POOL SCHEMATIC NOTES:

- ITEMS IN LIGHT LINE WEIGHT ARE PROVIDED BY OTHERS. ITEMS IN DARK LINE WEIGHT ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- CONDUCTOR SIZES AND CONDUITS FOR POWER TO PUMPS, SIZE OF DISCONNECTS AND SIZE OF OVERCURRENT PROTECTION FOR MOTORS IS PER THE POOL EQUIPMENT SCHEDULE.
- POOL CONTRACTOR TO FURNISH VFDs. ELECTRICAL CONTRACTOR SHALL MOUNT STARTER/DISCONNECTS ON UNISTRUT RACK ABOVE PUMP PIT PUMPS AS SHOWN ON PLANS AND CONNECT.
- LOW VOLTAGE CABLES ARE PROVIDED BY POOL CONTRACTOR. THESE ARE SHOWN IN LIGHT LINEWEIGHT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR LOW VOLTAGE CABLE. CONDUITS TO BE 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE POOL CONTRACTOR, COORDINATE WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR IS PROVIDING 120V POWER AND UP. ALL ELECTRICAL CONTACTS, DISCONNECTS AND OVERCURRENT PROTECTION IS BY ELECTRICAL CONTRACTOR PER THE PLANS.
- COORDINATE CONTACTS AND INTERLOCKS WITH POOL CONTRACTOR SO THAT ENOUGH ARE PROVIDED FOR THEIR SEQUENCE OF CONTROLS.
- SHUTTING OFF THE FILTER PUMP SHALL SHUTOFF ALL OTHER POOL EQUIPMENT, INCLUDING HEATERS AND CHEMICAL FEEDS.
- PROVIDE INTERLOCKING CONTACTS IN WIRING BOX. WHEN CIRCULATION PUMP IS OFF IT SHALL TURN OFF ALL CHEMICAL AND ACID FEEDS, HEATERS, AND FEATURE PUMPS ASSOCIATED WITH THE CIRCULATION PUMP POOL.

GENERAL NOTES

- SEE POOL BONDING NOTES ON SHEET E002 FOR SPECIFIC DETAIL NOTES.
- DETAIL IS SCHEMATIC IN NATURE. ALL COMPONENTS THAT NEED TO BE BONDED PER NEC.



3
E530
TYPICAL POOL EQUIPOTENTIAL GRID SCHEMATIC
SCALE: NONE



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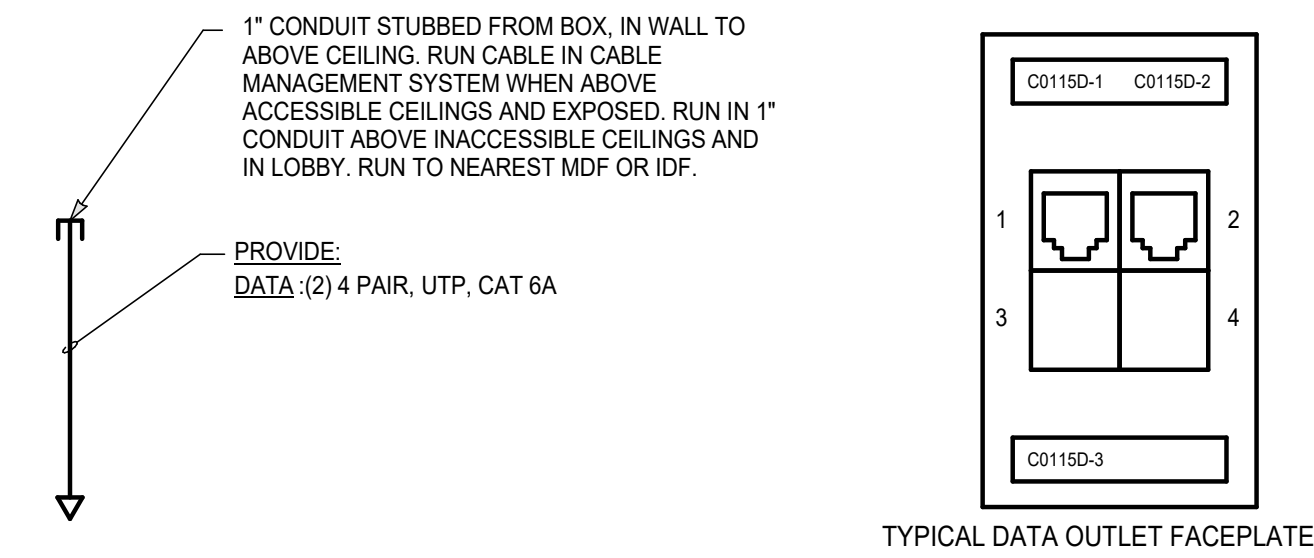


Mountain Recreation Eagle Pool
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NO. DATE: TITLE/PURPOSE:
01/22/2024 100% DESIGN DEVELOPMENT

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL POOL DETAILS

SHEET #:
E530



THIS APPLIES FOR ALL SYMBOLS
ON THE SYSTEMS PLANS THAT
LOOK LIKE THIS.

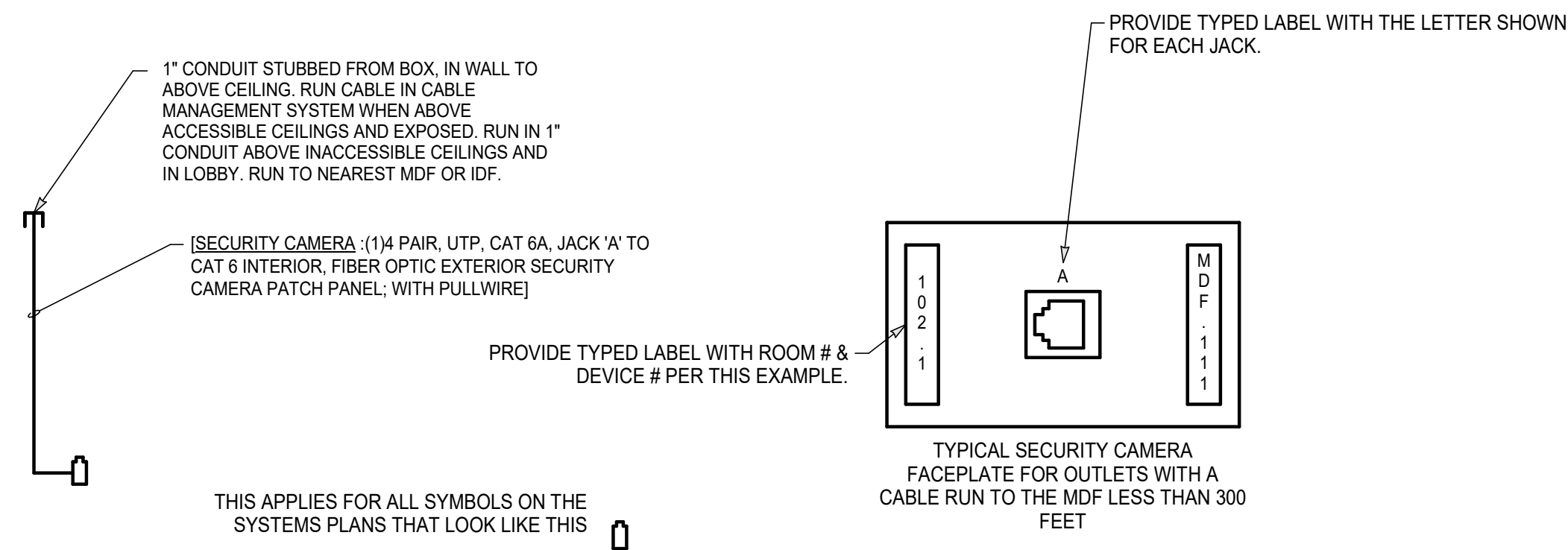


DATA OUTLET DETAIL

NO SCALE

NOTES:

1. REFER TO THE DIVISION 27 SPECIFICATION SECTIONS FOR REQUIRED EQUIPMENT AND SPECIFICATIONS.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.

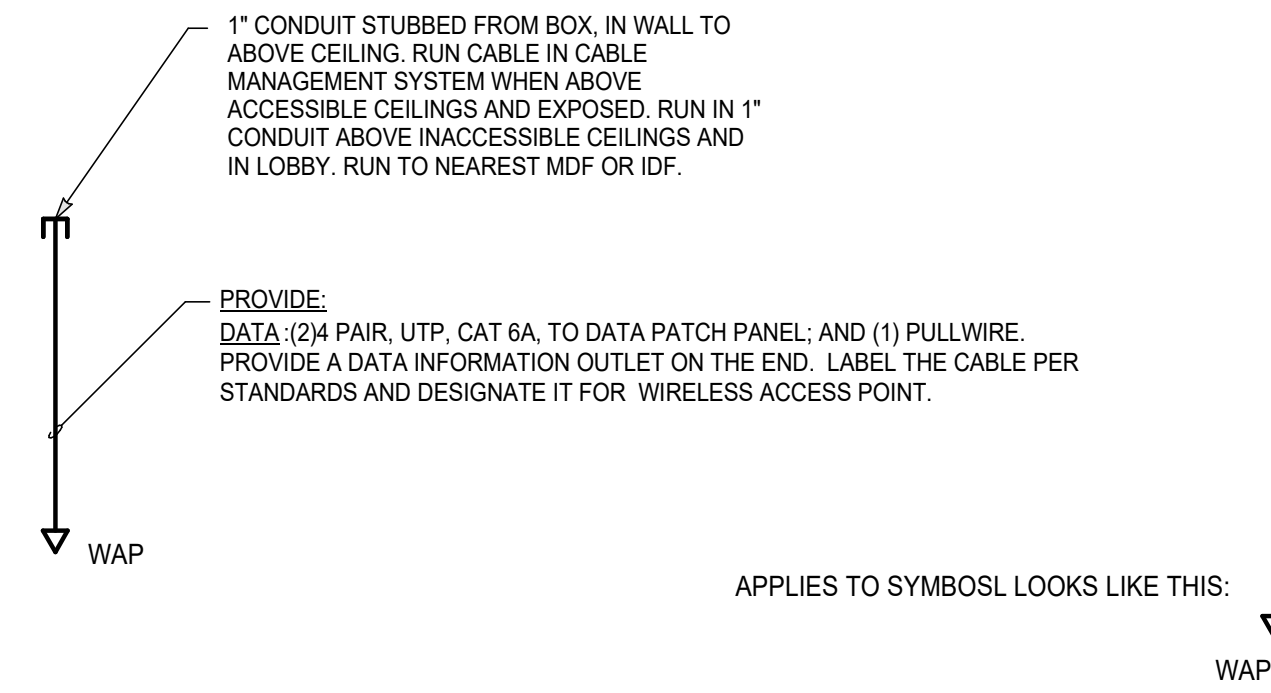


SECURITY CAMERA OUTLET

NO SCALE

NOTE:

1. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON PLENUM CABLE, PROVIDE YELLOW CABLE JACKET FOR SECURITY.
2. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY. TERMINATE SECURITY CABLE ON DEDICATED SECURITY PATCH PANELS.
3. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
4. DETERMINE THE ACTUAL RUN LENGTH OF THE CONDUIT FOR EACH OUTLET FROM THE ELECTRICAL CONTRACTOR AND PROVIDE THE PROPER EQUIPMENT.
5. ALL CAMERAS SHALL BE IP, NO ANALOG.
6. COORDINATE CAMERA MOUNTING HEIGHTS AND LOCATIONS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. LOCATIONS ON PLANS ARE FOR PRICING PURPOSES ONLY. EXACT LOCATIONS SHALL BE BY SECURITY CONTRACTOR.
7. MOUNT EXTERIOR CAMERAS AT LEAST 10' ABOVE GRADE. SECURITY CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
8. INTERIOR CAMERAS SHALL BE CEILING/SURFACE MOUNT.



WAP DETAIL

NO SCALE

NOTES

1. PROVIDE WIFI ROUTER. DEVICE SHALL BE CISCO MERAKI.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
5. PROVIDE 4" OCTAGONAL JUNCTION BOXES FOR CEILING MOUNTED WIFI DEVICES.
6. PROVIDE ALL MOUNTING HARDWARE FOR WIRELESS PORT.
7. TERMINATE ALL WIFI CABLING IN DEDICATED PATCH PANELS.

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SCALE:

ISSUE DATE: **01/22/2024**

PROJECT #: **23079**

TITLE: **LOW VOLTAGE DETAILS**

SHEET #:

E540

LUMINAIRE SCHEDULE										
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP		VOLTS	MOUNTING	NOTES	MAX VA	
				QTY	TYPE					
C1	LED, SQUARE SURFACE MOUNTED, WET LISTED, DOWNLIGHT	DMF LIGHTNG	DRD5S4S109350	1	LED	277	SURFACE	MOUNT IN RECESSED 40 OCTAGONAL JUNCTION BOX	12	
EP1	LED, ROUND PUCK STYLE AREA LIGHT, MOUNT TO A 20' POLE	LITHONIA	RAD1LED-P3-27K-ASY-MVOL T-RPA-NLTAIR2-CUSTOM COLOR	1	LED	277	POLE, 20' ROUND STRAIGHT STEEL WITH PLANTER ARMS	PROVIDE WITH rSBOR MOTION SENSOR. COLOR TO MATCH EXISTING POLES IN PARKING LOT	54	
EW P1	LED, EXTERIOR WALL PACK`	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLT AIR2 PIR-DBLXD	1	LED	277	WALL, +8' AFF		25	
EW P1EM	LED, EXTERIOR WALL PACK`, EM BATTERY	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLT AIR2 PIR-E20WC-DBLXD	1	LED	277	WALL, +8' AFF		25	
J1	LED, HAZARD LOCATION RATED, SEALED, JELLY JAR	AZZ RIGALITE	AVPH-LED-U-HF-G-C	1	LED	277	SURFACE		26	
L4	LED, 4' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-4'-MSL4-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHHT	1	LED	277	SURFACE		32	
L6	LED, 6' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-6'-MSL6-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHHT	1	LED	277	SURFACE		48	
L6 EM	LED, 6' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-6'-MSL6-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHHT-E10WLCP	1	LED	277	SURFACE		48	
L7 EM	LED, 7' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-7'-MSL7-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHHT-E10WLCP	1	LED	277	SURFACE		56	
L8	LED, 8' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-8'-MSL8-90CRI-35 K-1000LMF-SCT-MIN10-CLL-MVOLT-WHHT	1	LED	277	SURFACE		64	
R1	LED, 2X4 RECESSED TROFFER	LITHONIA	ENVX-2X4-HRG-4000LM-90C RI-35K-MIN1-EZT-MVOLT	1	LED	277	RECESSED		33	
R1 EM	LED, 2X4 RECESSED TROFFER, EM BATTERY									
R1EM	LED, 2X4 RECESSED TROFFER, EM BATTERY	LITHONIA	ENVX-2X4-HRG-4000LM-90C RI-35K-MIN1-EZT-MVOLT-E1 0WLCP	1	LED	277	RECESSED		33	
S1	LED, 4' STRIP	LITHONIA	CSS-L48-4000LM-MVOLT-35 K-80CRI-ZACVH M100	1	LED	277	SURFACE	MOUNT TO SURFACE UNLESS THERE ARE PIPES THEN USE AIRCRAFT CABLE TO MOUNT BELOW PIPES.	35	
W1	LED, 20" LONG VANITY WALL SCONCE	MODERN FORMS	WS-21718-3500K-BN	1	LED	277	WALL, ABOVE MIRROR		16	
X1	LED, UNIVERSAL MOUNT EXIT SIGN, WHITE BACKGROUND, RED LETTERS	LITHONIA	LQM-S-W-3-R-MVOLT-ELN	1	LED	277	WALL, ABOVE DOOR		5	
Y1	LED, EMERGENCY LIGHT	LITHONIA	ELM4L	2	LED	277	WALL, ABOVE DOOR OR 7' AFF		5	

MECHANICAL SCHEDULE											
KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND.	DISCONNECT	CIRCUIT BREAKER	CIRCUIT		NOTES
									PANEL	NUMBER	
EF-10	CHEMICAL ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-11	ACID ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-12	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-13	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-14	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-15	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
FCU-7	FAN COIL UNIT POOOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	17	
FCU-8	FAN COIL UNIT POOOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	14	
GWH-1	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	18	
GWH-2	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	19	
PP-1	WATER HEATER CIRC PUMP	656	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	21	

POOL EQUIPMENT SCHEDULE												
KEY	EQUIPMENT	LOAD	VOLTS	PH	CONDUCTORS	COND.	STARTER/DISCONNECT		CIRCUIT BREAKER	CIRCUIT		NOTES
							DISCONNECT	STARTER		PANEL	NUMBER	
1A	LAP POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	4	
1B	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
2A	REC POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	6	
2B	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
CF1	LAP POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER
CF2	LAP POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER
CF3	LAP POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER
CF4	REC POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER
CF5	REC POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER
CF6	REC POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER
H1A	LAP POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	9	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H1B	LAP POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	11	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2A	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	8	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2B	REC POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	12	INTERLOCK WITH FEATURE PUMP
H2C	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	10	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2D	REC POOL HEATER	2148	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	13	INTERLOCK WITH FEATURE PUMP
PP1	LAP POOL RECIRC, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	1,3,5	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP
PP2	OPEN FLUME WATER SLIDE, 20HP	22447	480	3	3#8,1#10G	3/4"	60A/3P	VFD	50A/3P, GFCI	HPP	8,10,12	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP3	CLOSED FLUME WATER SLIDE, 10HP	11639	480	3	3#10,1#10G	3/4"	30A/3P	VFD	30A/3P, GFCI	HPP	7,9,11	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP4	CURRENT CHANNEL, 15HP	17459	480	3	3#10,1#10G	3/4"	60A/3P	VFD	40A/3P, GFCI	HPP	13,15,17	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP5	REC RECIRC PUMP, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	2,4,6	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP6	SPRAY FEATURE PUMP, 7.5HP	9145	480	3	3#12,1#12G	3/4"	30A/3P	VFD	20A/3P, GFCI	HPP	14,16,18	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP
UV-1	UV SYSTEM CONTROL PANEL, 4.8A	576	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI	LPP	3	INTERLOCK WITH FEATURE PUMP
UV-C	UV CHAMBER	--	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI			CONNECT TO CONTROL CABINET UV-1. REFER TO INSTALLATION INSTRUCTIONS.



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1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE:
ISSUE DATE: **01/22/2024**
PROJECT #: **23079**
TITLE: **ELECTRICAL SCHEDULES**

SHEET #:

E601

Branch Panel: HPP

Location: POOL MECH. 104
Supply From:
Mounting: Surface
Enclosure: NEMA 4X

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC FULLY RATED
Mains Type: MCB
Mains Rating: 200A
MCB Rating: 200A/3P

Notes

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				9422...	9422...					2
3	PP1 LAP POOL CIRC PUMP [2]	70 A	3		9422...	9422...		3	70 A	PP5 REC POOL CIRC PUMP [2]
5										6
7				3880...	9422...					8
9	PP3 CLOSED SLIDE PUMP [1] [2]	30 A	3		3880...	9422...		3	50 A	PP2 OPEN FLUME SLIDE PUMP [1] [2]
11						3880...	9422...			10
13				5820...	3048...					12
15	PP4 CURRENT CHANNEL PUMP [1] [2]	40 A	3		5820...	3048...		3	20 A	PP6 SPRAY FEATURE [1] [2]
17						5820...	3048...			16
19										18
21										20
23										22
25				0 VA						24
27	TVSS UNIT	30 A	3		0 VA					26
29						0 VA				28
Total Load:				41015 VA	41015 VA	41015 VA				
Total Amps:				148 A	148 A	148 A				

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	123044 VA	105.74%	130111 VA	
				Total Conn. Load: 123044 VA
				Total Est. Demand: 130111 VA
				Total Conn.: 148 A
				Total Est. Demand: 156 A

Notes:
[1] PROVIDE GFCI BREAKER
[2] PROVIDE SHUNT TRIP

Branch Panel: LPP

Location: POOL MECH. 104
Supply From:
Mounting: Surface
Enclosure: NEMA 4X

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KAIC FULLY RATED
Mains Type: MCB
Mains Rating: 250A
MCB Rating: 250A/3P

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	C02 ALARM [1]	20 A	1	1500... 480 VA			1	20 A	REC POOL FLOCCULATION CONTROL PANEL	2
3	UV CONTROL PANEL [1]	20 A	1		576 VA 1800...		1	20 A	LAP POOL CHEMICAL CONTROLLER [1]	4
5	LAP POOL FLOCCULATION CONTROL PANEL	20 A	1			480 VA 1800...	1	20 A	REC POOL CHEMICAL CONTROLLER [1]	6
7	WATER LEVEL CONTROLLERS	20 A	1	240 VA 2568...			1	30 A	REC POOL HEATER [1]	8
9	LAP POOL HEATER [1]	30 A	1		2568... 2568...		1	30 A	REC POOL HEATER [1]	10
11	LAP POOL HEATER [1]	20 A	1			2148... 2148...	1	20 A	REC POOL HEATER [1]	12
13	REC POOL HEATER [1]	20 A	1	2148... 656 VA			1	20 A	FCU-8 FAN COIL UNIT POOL MECH [1]	14
15	EF-11,12 CHEM ROOM FAN [1]	20 A	1		132 VA 56 VA		1	20 A	LOCKER ROOM EXHAUST FANS	16
17	FCU-7 FAN COIL UNIT POOL MECH [1]	20 A	1			656 VA 1500...	1	20 A	GAS WATER HEATER GWH-1	18
19	GAS WATER HEATER GWH-2	20 A	1	1500...						20
21	WATER HEATER CIRC PUMP PP-1	20 A	1		656 VA					22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
Total Load:				9092 VA	8356 VA	8732 VA				
Total Amps:				76 A	70 A	73 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	656 VA	125.00%	820 VA	
Power	25524 VA	100.00%	25524 VA	
				Total Conn. Load: 26180 VA
				Total Est. Demand: 26344 VA
				Total Conn.: 73 A
				Total Est. Demand: 73 A

Notes:
[1] PROVIDE GFCI BREAKER



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**

**NOT FOR
CONSTRUCTION**



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

[illegible]

SCALE:
ISSUE DATE: 01/22/2024
PROJECT #: 23079
TITLE: ELECTRICAL PANEL
SCHEDULES

SHEET #

E610

1 ELECTRICAL SITE DEMO PLAN
1" = 20'-0"



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1" = 20'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: ELECTRICAL DEMO SITE PLAN

SHEET #:

ED100



*innovative
electrical
systems, inc.*

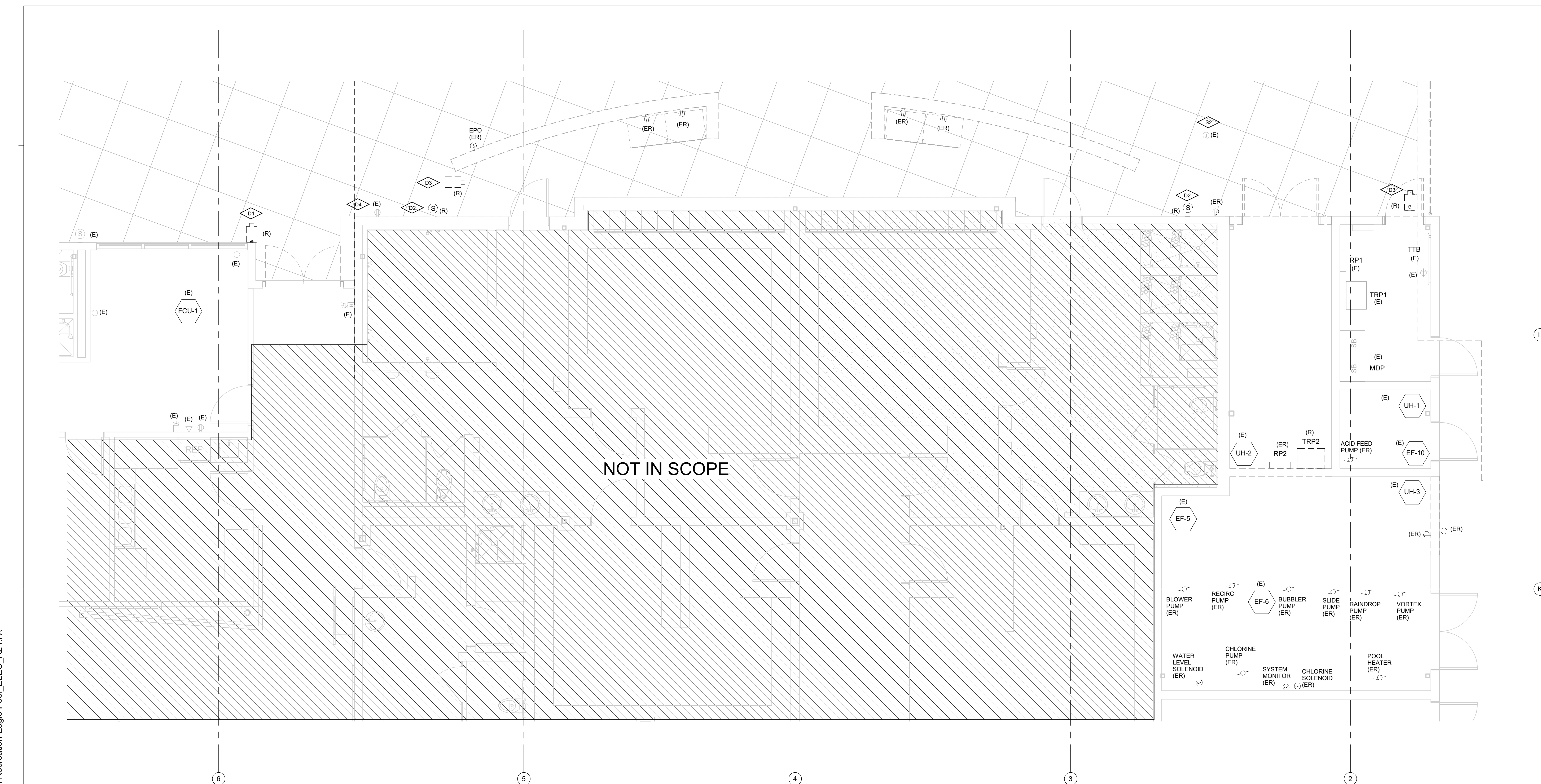
8093 West Hill Lane
Lakewood, CO 80227
303-807-7181
kiv@ievsystems-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SHEET #

ED101



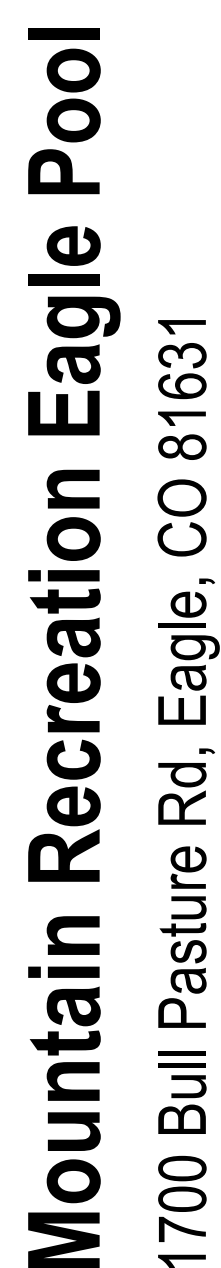
1 DEMO FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D1	THERE ARE TWO CAMERAS AT THIS LOCATION THAT WILL BE RELOCATED TO NEW DOUBLE DOORS ON ADDITION. REFER TO NEW PLANS.
D2	EXISTING SPEAKERS TO BE RELOCATED TO NEW EXTERIOR WALL AND RECONNECTED. REFER TO NEW PLANS.
D3	CAMERA WILL BE RELOCATED INSIDE TO NEW ADDITION. REFER TO PLANS.
D4	REMOVE WPIU COVER AND GFCI DEVICE. A NEW NON GFCI W/ I REPAIR AC F IT

KEYNOTE LEGEND	
Key Value	Keynote Text
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.



**NOT FOR
CONSTRUCTION**

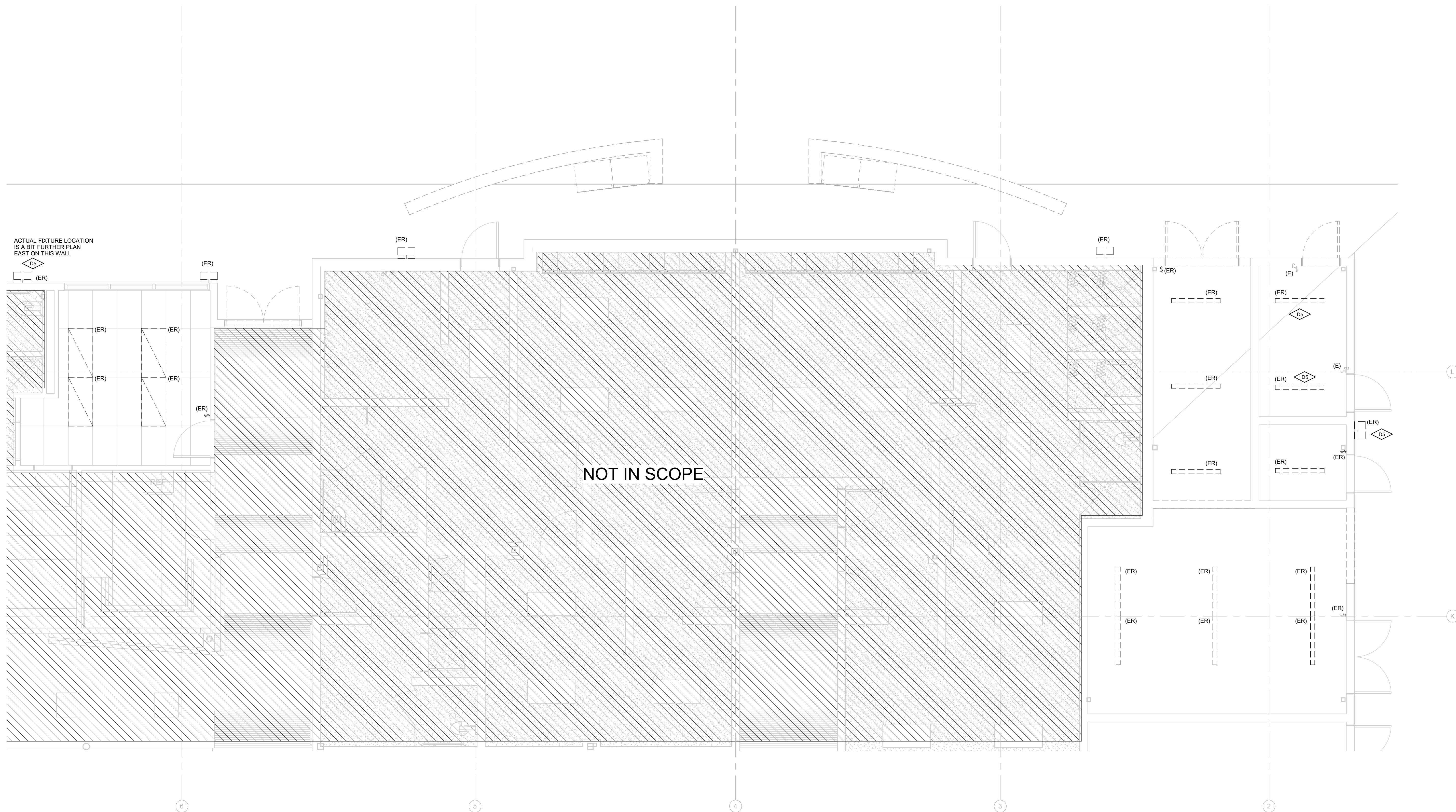


NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DESIGN DEVELOPMENT

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 01/22/2024
 PROJECT #: 23079
 TITLE: ELECTRICAL DEMO LIGHTING
 PLAN

SHEET #:

ED111



1 DEMO FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D5	REMOVE EXISTING LIGHT BUT MAINTAIN CIRCUIT. A NEW FIXTURE MATCHING THE ADDITION WILL REPLACE THIS FIXTURE AT THIS LOCATION. REFER TO NEW PLANS.

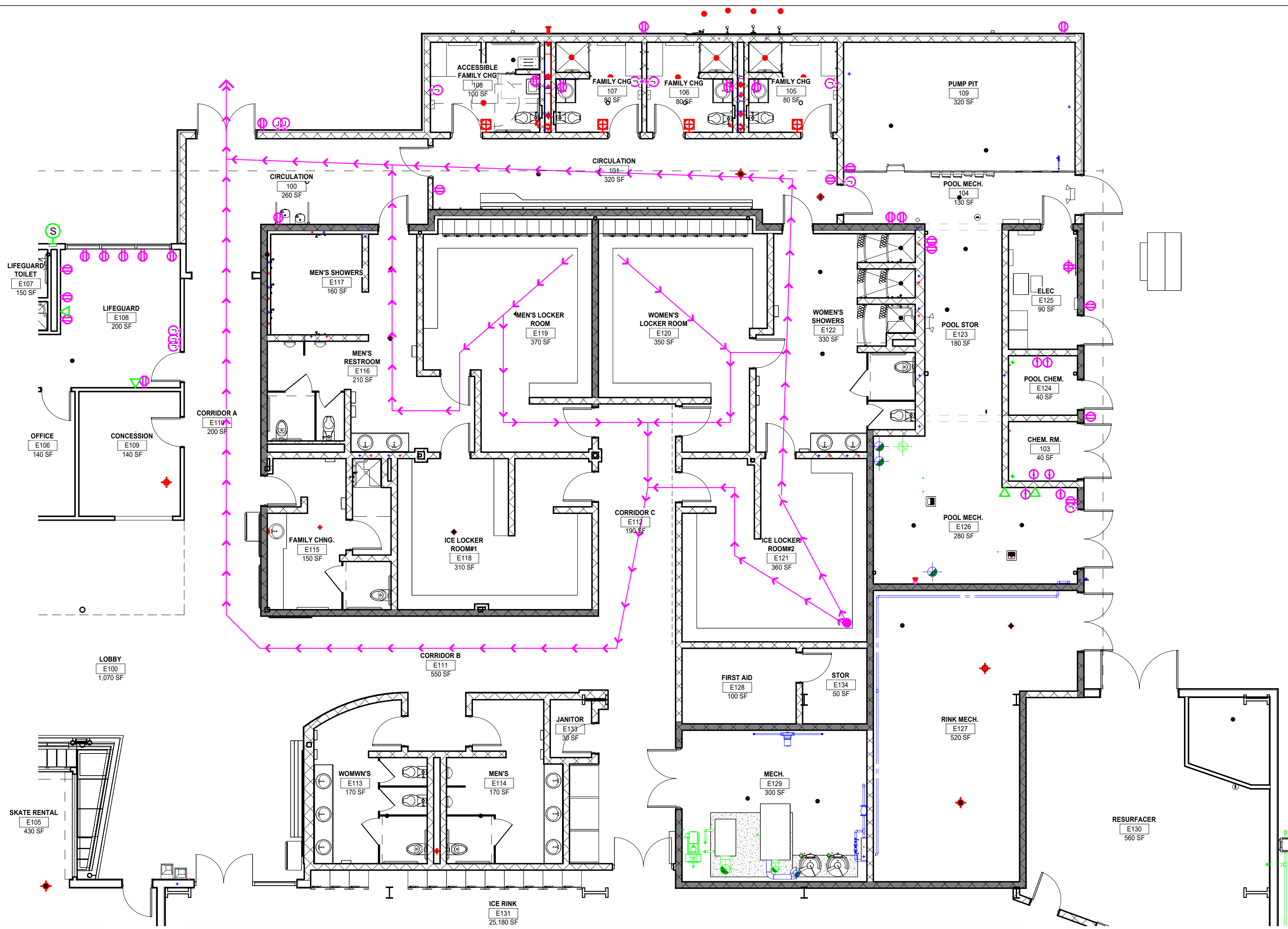
Issue Date: 03/22/2024
Issued For: DESIGN DEVELOPMENT

A	< ANGLE @ AT A/C AIR CONDITIONING AB ANCHOR BOLT ABV ABOVE ACT ACCOUTSUAL CEILING TILE AD AREA DRAIN ADD'N ADDITIONAL ADD.# ADDENDUM NUMBER ____ ADJ ADJACENT or ADJUSTABLE AFF ABOVE FINISHED FLOOR AFF ABOVE FINISHED GRADE ACGR AGGREGATE AHU AIR HANDLING UNIT ALT ALTERNATE ALUM ALUMINUM ANG ANGLE ANOD ANODIZED APPROX APPROXIMATE(LY) ARCH ARCHITECTURAL ATTEN ATTENUATION AUTO AUTOMATIC AVG AVERAGE AWG AMERICAN WIRE GAGE	D	CTR. CENTER D.F. DRINKING FOUNTAIN D.L. DEADLOAD D.S. DOWN SPOUT DBL DOUBLE DEG. DEGREE DEPT. DEPARTMENT DIA. DIAMETER DIAG. DIAGONAL DIM. DIMENSION DISP. DISPENSER DIV. DIVISION DN. DOWN DMP DAMPROOFING DR. DOOR DTL. DETAIL DWG. DRAWING	G	FURR. FURRING FUT. FUTURE G.B. GRAB BAR G.B. GLASS BLOCK G.C. GENERAL CONTRACTOR G.I. GALVANIZED IRON G.P. GYM WALL PADDING GA. GAUGE GALV. GLAVANIZED GCMU GLAZED CONCRETE MASONRY UNIT(S) GR. GRADE GL. GLASS or GLAZING GND. GROUND GRT. GROUT G.T. GROUT GWB GYPSUM WALLBOARD GYP. GYPSUM GYP. BD. GYPSUM BOARD	M	LKR. LOCKER LT. LIGHT LT. WT. LIGHT WEIGHT LVR. LOUVER M.H. MANHOLE M.O. MASONRY OPENING M.P. MOVEABLE PARTITION M.S.B. MOP SERVICE BASIN MAS. MASONRY MATL. MATERIAL MAX. MAXIMUM MECH. MECHANICAL MET. METAL MFR. MANUFACTURER MIN. MINIMUM MISC. MISCELLANEOUS MMB MEMBRANE MR. MIRROR MTD. MOUNT(ED) MTL. METAL MUL. MULLION	Q	PT POST TENSIONED SLAB PT. PAINT PTL PORCELAIN TILE PTN. PARTITION PV. PAVEMENT PVC POLYVINYL CHLORIDE Q.T. QUARRY TILE	R	R. RISER R.B. RUBBER BASE R.C.P. REFLECTED CEILING PLAN R.D. ROOF DRAIN R.F. RUBBER FLOORING R.H. RIGHT HAND R.H.R. RIGHT HAND REVERSE R.L. RAIN LEADER R.O. ROUGH OPENING R.O.D. ROOF OVERFLOW DRAIN R.R.T. RUBBER RUNNING TRACK R.T. RUBBER STAIR TREAD R.W.F. RESILIENT WOOD FLOORING RAD. RADIUS RAF RESILIENT ATHLETIC FLOORING RE-BAR. REINFORCING BAR RE. REFER TO or REFERENCE REC. RECESSED RECP.T. RECEPTACLE REFRIG. REFRIGERATOR or REFRIGERATED REG. REGISTER REINF. REINFORCING REQ'D. REQUIRED RESIL. RESILIENT REV. REVISE, REVISED or REVISION RFG. ROOFING RFL. REFLECTED R.M. ROOM RND. ROUND	T	SQ. SQUARE ST. STAIN STD. STANDARD STL. STEEL STOR. STORAGE STRUCT. STRUCTURE or STRUCTURAL STS. STAIR THREAD SYSTEM SUSP. SUSPEND(ED) SYM. SYMMETRICAL SYS. SYSTEM T. TREAD T&B TOP AND BOTTOM T&G TONGUE AND GROOVE T.O.P. TOP OF TB TOWEL BAR TCP TOILET COMP./SOLID PLASTIC TEL. TELEPHONE TEMP. TEMPERED (ATURE) THK. THICK or THICKNESS THRU THROUGH TOC TOP OF CONCRETE TOM TOP OF MASONRY TOS TOP OF STEEL TPD TOILET PAPER DISPENSER TS TRANSITION STRIP TV TELEVISION TYP. TYPICAL TZ. TERRAZZO	U	U UP UG. UNDERGROUND UNF. UNFINISHED UNO UNLESS OTHERWISE NOTED UOS UNLESS OTHERWISE SPECIFIED URN. URINAL	V	(V) VERIFY VB VINYL BASE VCB VENTED COVE BASE VCT VINYL COMPOSITION TILE VERT VERTICAL VEST VESTIBULE VF VINYL FLOORING VFY VERIFY IN FIELD VTR VENT THROUGH ROOF VWC VINYL WALL COVERING	W	W WEST W WITH W/O WITHOUT WB WASTE BASKET WC WATER CLOSET WCV WALL COVERING WD WOOD WDP WOOD PANELING WDW WINDOW WF WIDE FLANGE WGL WIRED GLASS WH WALL, HUNG WH. WIDTH WP WATERPROOF(ING) WR WATER RESISTANT WSCT WAINSCOT WT WEIGHT WWF WELDED WIRE FABRIC
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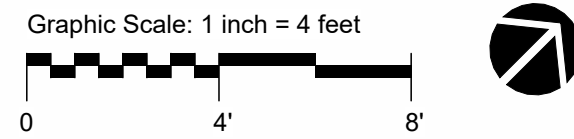
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SHEET #1

A-001



1 CODE STUDY FIRST FLOOR PLAN
1/8" = 1'-0"



S.F. BREAKDOWN EAGLE POOL REPLACEMENT

	Qty.	Size	Subtotal	Subtotal	Total	Comments
I. PUBLIC AMENITIES						
A. Admin. / Management Staff						
1 New Staff Area	1	-	-	-	-	
II. LOCKER FACILITIES						
				660		
a. Family / Universal Changing						
1 Changing Area	1	660	660	660		
III. AQUATIC FACILITIES						
				13,602		
A. Lap / Competition Pool						
1 (6) x 7' Lanes x 25 yds.	1	3,425	3,425	3,425		
B. Leisure Pool						
1 Zero-depth entry + current channel	1	4,177	4,177	4,177		
C. Waterslides						
1 20' H. Waterslide Platform + 2 flumes	0	1,247	-	-		
D. Pool Deck						
1 Pool Deck	1	6,000	6,000	6,000		
IV. SUPPORT FACILITIES						
				910		
A. Pool Support						
1 Lifeguards / First-Aid	0	230	-	-	910	
2 Multi-Purpose / Party Room	0	300	-	-		
3 Concessions	0	200	-	-		
4 Pump Pit	1	320	320			
5 Pool Mechanical Room	1	130	130			
	1	460	460			
NET S.F. OF FLOOR AREA						
				15,172		
GROSS S.F. FACTOR						
	190%			28,828		
GROSS SITE / FLOOR AREA						
				44,000		

Plumbing Fixture Calculation:

Use: Assembly, pools for outdoor activities

	W/C's or Urinals		Lav's		DF's
	M	F	M	F	
Total Occupant Load	75	40	200	150	1000
M & F Occ's	4	8	3	4	
Total Fixtures Required	11	12	14	7	2
Total Fixtures Provided	11	11	14	14	4

2021 ICC Codes

Occupancy Type	SF/Occ	Occ Load
Business	150	-
Locker rooms	50	14
Swimming Pools	50	69
Swimming Pools	50	84
Pool Deck	15	400
Business Areas	150	-
Business Areas	150	-
Business Areas	150	-
Accessory storage, mech, etc	300	2
Accessory storage, mech, etc	300	1
Accessory storage, mech, etc	300	2
Total Occupant Load		572

BUILDING CODE SUMMARY

PROJECT INFORMATION PROJECT NAME: **EAGLE POOL REPLACEMENT**
PROJECT TYPE: RENOVATION
BUILDING ADDRESS : TOWN OF EAGLE, COLORADO

APPLICABLE MUNICIPAL...

2021 INTERNATIONAL BUILDING CODE/EXISTING BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL SWIMMING POOL AND SPA CODE
2017 ANSI 117.1 ACCESSIBILITY CODE

2021 IEBC COMPLIANCE
PATHWAY:

301.3.1 ALTERATIONS AND ADDITIONS COMPLY WITH THE
APPLICABLE REQUIREMENTS OF CHAPTERS 5 OF
THIS CODE
501.2 A FIRE SPRINKLER SYSTEM IN COMPLIANCE WITH
903.3.1.1 IS EXISTING AND SHALL BE EXTENDED INT...
502.1 ADDITIONS SHALL COMPLY WITH THE
INTERNATIONAL BUILDING CODE
503.1 ALTERATIONS SHALL COMPLY WITH THE
INTERNATIONAL BUILDING CODE. ALTERATIONS
SHALL BE SUCH THAT THE EXISTING BUILDING OR
STRUCTURE IS NOT LESS COMPLYING WITH THE
PROVISIONS OF THE INTERNATIONAL BUILDING
CODE THAN THE EXISTING BUILDING OR STRUCTUR...

CH	IBC CHAPTER AND SECTION	F	SUB-TITLE	CURRENT DESIGN
1	SCOPE & ADMINISTRATION			
	DEFERRED SUBMITTALS 107.3.4.1			FIRE SPRINKLER SYSTEMS
3	USE & OCCUPANCY:			
	OCCUPANCY DESIGNATION & 302 USE GROUP		GROUP A-4, INDOOR SKATING RINKS	GROUP A-4 ASSEMBLY (303.5 INDOOR SKATING RINKS)
4	SPECIAL USE & OCCUPANCY:			
			CHAPTER NOT APPLICABLE	
5	GENERAL BUILDING HEIGHTS & AREAS:			
	ALLOWABLE HEIGHT 504.3, TABLE		ALLOWED (SPRINKLERED): 55' ACTUAL: 24'-6"	
	ALLOWABLE STORIES 504.4, TABLE		ALLOWED (SPRINKLERED): 2 ACTUAL: 1	
	ALLOWABLE AREA 506.2, DETERMINATION		506.2.1	ALLOWABLE AREA $A_t = 38,000$ SF
	SINGLE OCCUPANCY / 1-STORY			
	UNLIMITED AREA BUILDINGS 507			THE AREA OF THIS BUILDING SHALL NOT BE LIMITED BASED ON COMPLIANCE WITH THIS SECTION
	507.4			THE AREA OF A GROUP A-4 BUILDING NOT MORE AUTOMATIC FIRE SPRINKLER SYSTEM THAN ONE STORY ABOVE THE GRADE APLANE OF THROUGHOUT IN ACCORDANCE WITH SECTION TYPE II-B CONSTRUCTION SHALL NOT BE LIMITED 903.3.1.1 AND IS SURROUNDED BY ADJOINING PUBLIC WAYS OR YARDS NOT LESS THAN 60 FT.
	MIXED-USE OCCUPANCY 507.4.1 & 508 INCIDENTAL USE 509.1, 509.2			THIS IS A SINGLE OCCUPANCY FACILITY NOT APPLICABLE INCIDENTAL USES SHALL NOT BE INDIVIDUALLY SPRINKLERS PROVIDED CLASSIFIED, AND SHALL BE INCLUDED IN THE...
6	TYPES OF CONSTRUCTION:			
	FIRE RESISTANCE RATING 601, TABLE			CONSTRUCTION TYPE II-B STRUCTURAL FRAME 0 HOUR BEARING WALLS--EXTERIOR 0 HOUR BEARING WALLS--INTERIOR 0 HOUR NON-BEARING WALLS--EXTERIOR SEE TABLE 602 NON-BEARING WALLS--INTERIOR 0 HOUR FLOOR CONSTRUCTION 0 HOUR ROOF CONSTRUCTION 0 HOUR
	FIRE SEPARATION DISTANCE 602, TABLE			X 5'-X<30' BASED ON § 601 AND § 302 2 HOUR, 8" CMU PROVIDED W/ PROTECTED OPENINGS
7	FIRE PROTECTION			
	MINIMUM DISTANCE OF 705.2 PROJECTION 705.8 MAXIMUM AREA OF EXTERIO...		5 OR GREATER: 40" 705.8.1, EX. 1.1: NO LIMIT FACING THE STREET	
8	INTERIOR FINISHES			
	INTERIOR WALL AND FINISH 803.13 FIRE-RATING			BASED ON § 601 AND § 302 AND FULLY-SPRINKLERED EXIT STAIRS/RAMP/PASSAGEWAYS: B CORRIDORS AND ENCLOSURES: B ROOMS AND ENCLOSED SPACES: C
9	FIRE PROTECTION SYSTEM:			
	AUTOMATIC SPRINKLER 903.2.1.3 SYSTEMS 906.3(1) PORTABLE FIRE EXTINGUISHERS (FE) FOR CLASS A FIRE HAZARDS			GROUP A-4 FULLY-SPRINKLERED HAZARD OCCUPANCY: LIGHT (LOW) MINIMUM RATED FE: 2-A MAXIMUM AREA : 3,000 SF MAXIMUM FLOOR AREA / FE: 11,250 SF MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75'
10	MEANS OF EGRESS:			
	MEANS OF EGRESS WIDTH 1005.1			STAIRS: 0.20" (BUT 34" MIN) OTHER: 0.15" (BUT 44" MIN, 36" MIN IF <50 OCC)
	SPACES WITH ONE EXIT 1006.2.1			TOTAL OCCUPANCY: 411 EXITS REQUIRED: 2 EXITS PROVIDED: 2
	MINIMUM NUMBER OF EXITS 1006.3.2 PER STORY			
	HARDWARE 1008.1.9.3 ACCESSIBLE MEANS OF 1009 EGRESS			PANIC HARDWARE IN PATH OF EGRESS: PROVIDED @ EXITS ONE ACCESSIBLE MEANS OF EGRESS REQUIRED MAXIMUM: ONE PROVIDED FOR A-3 OCC, MAX DIST: 75' FOR A-3 OCC, OVER 30 OCC LOAD: 250' NOT APPLICABLE NO CORRIDORS
	COMMON TRAVEL 1017.2 EXIT ACCESS TRAVEL 1020.1 DISTANCE CORRIDOR FIRE-RESISTANC... 1020.4			20'
11	ACCESSIBILITY			
	ACCESSIBLE ROUTE 1104			AT LEAST ONE ACCESSIBLE ROUTE: SINGLE STORY, ONE ROUTE PROVIDED FROM ACCESSIBLE PARKING & LOADING SPACES



2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 3/22/2024 SITE PLAN 02

SCALE: 1/8" = 1'-0"

ISSUE DATE: 03/22/2024

PROJECT #: 23079

TITLE: CODE STUDY

SHEET #:

A-002



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
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118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: LEGEND &
 ABBREVIATIONS

SHEET #

C-001



118 West Sixth Street, Suite 201
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
ISSUE DATE: 3/11/2024
PROJECT #: 2023-493.001
TITLE: EXISTING CONDITIONS & DEMO-REMOVALS PLAN

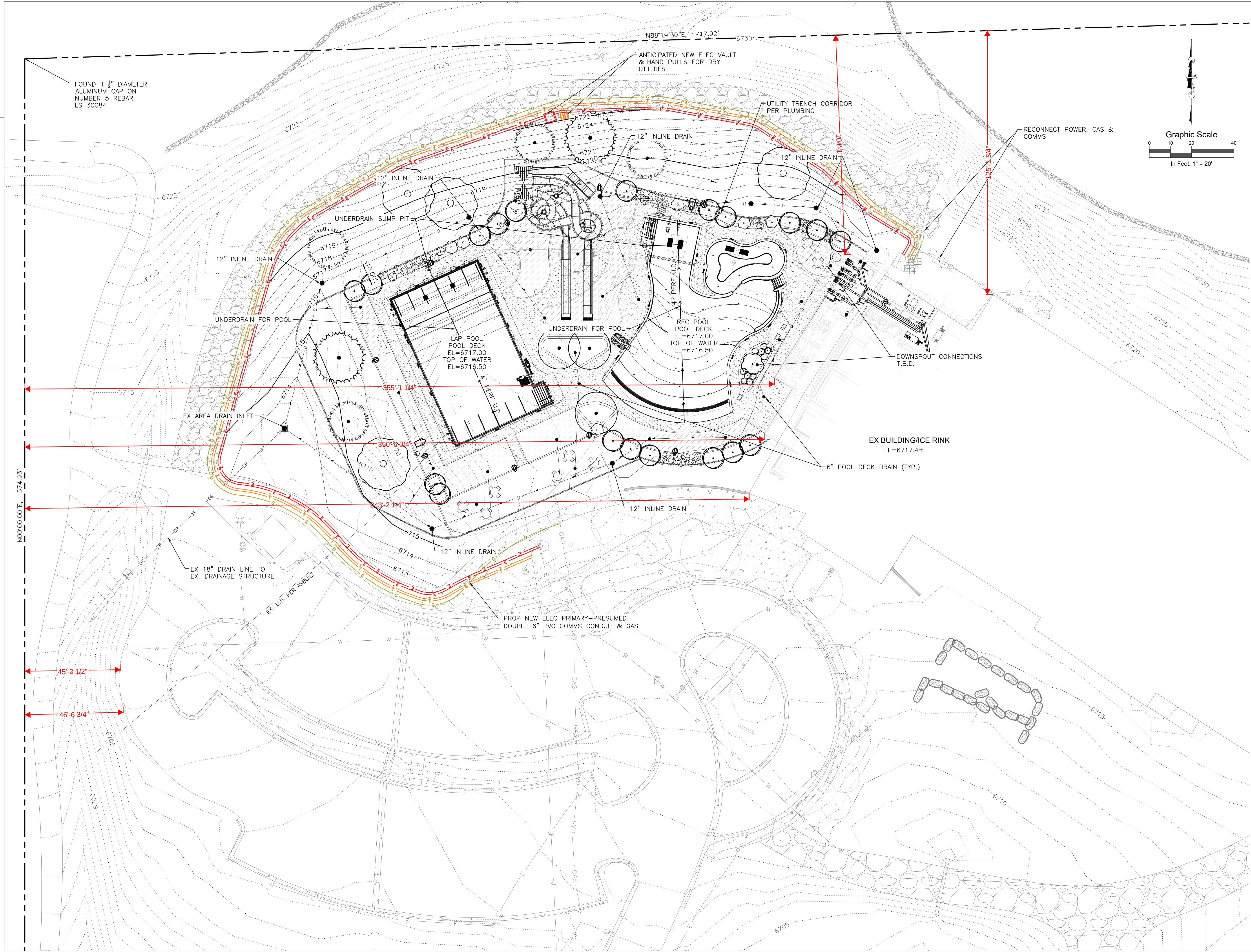
SHEET #:

C-100



\\2023\2023-493-EaglePoolReplacement\001-StructEng\H-Dwg\Civil\PS-SheetSet\MREP-ExCond-Demo.dwg

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3/20/2024 2:28 PM



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118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	3/22/2024	Site Plan Application 02

SCALE: AS SHOWN
ISSUE DATE: 3/21/2024
PROJECT #: 2023-493.001
TITLE: SITE PLAN

SHEET #:

C-200



118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
ISSUE DATE: 3/21/2024
PROJECT #: 2023-493.001
TITLE: GRADING &
DRAINAGE PLAN

SHEET #:

C-201



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**



118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

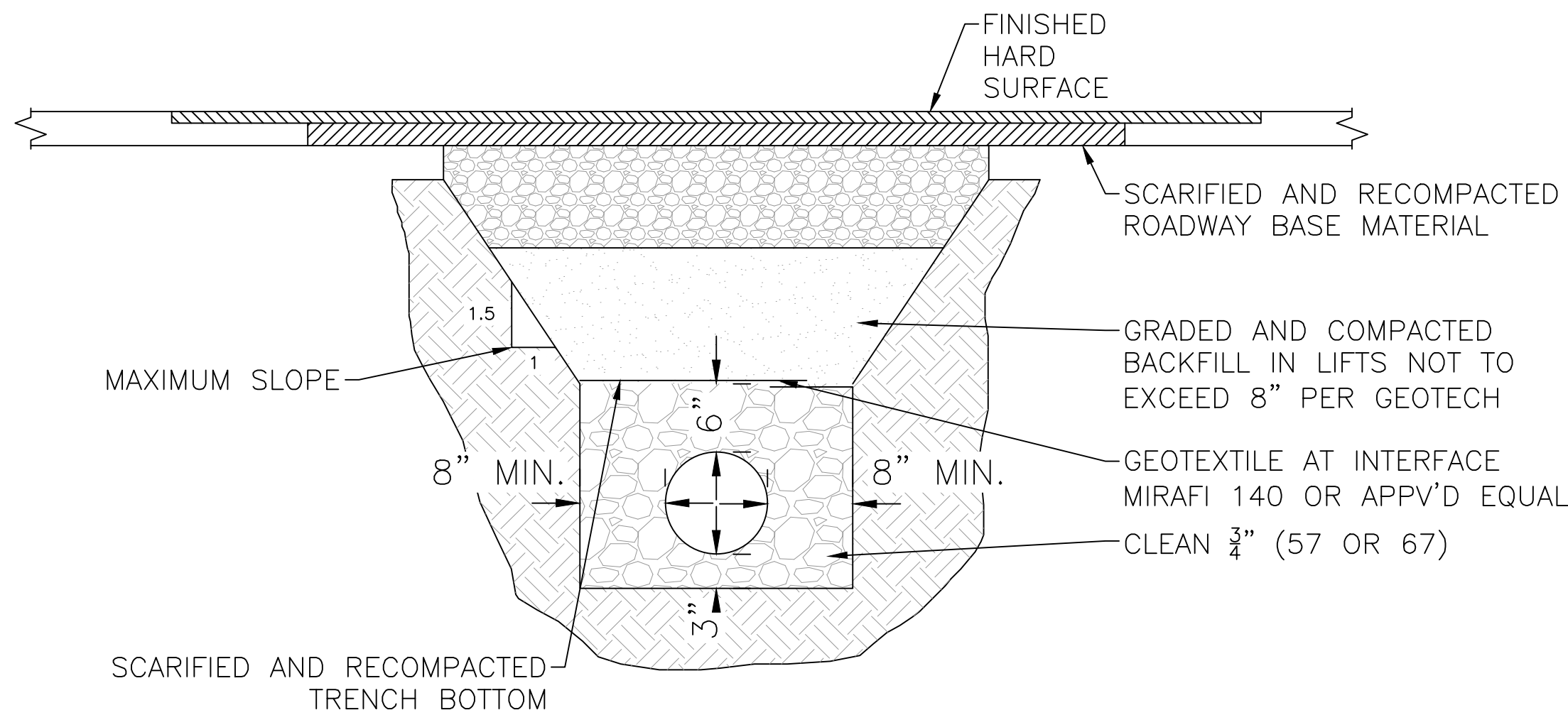
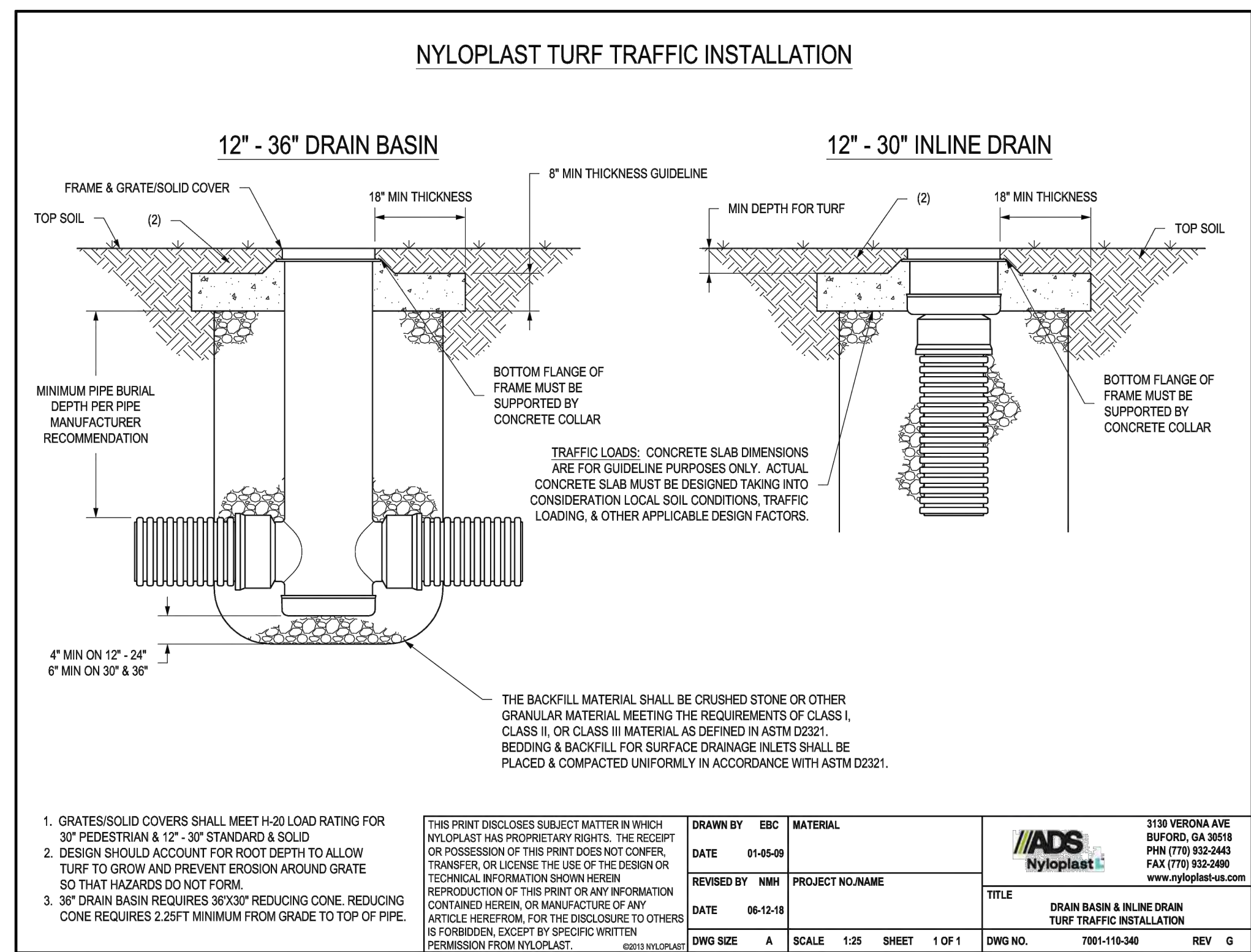
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS SHOWN
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: SITE & UTILITY DETAILS

SHEET #

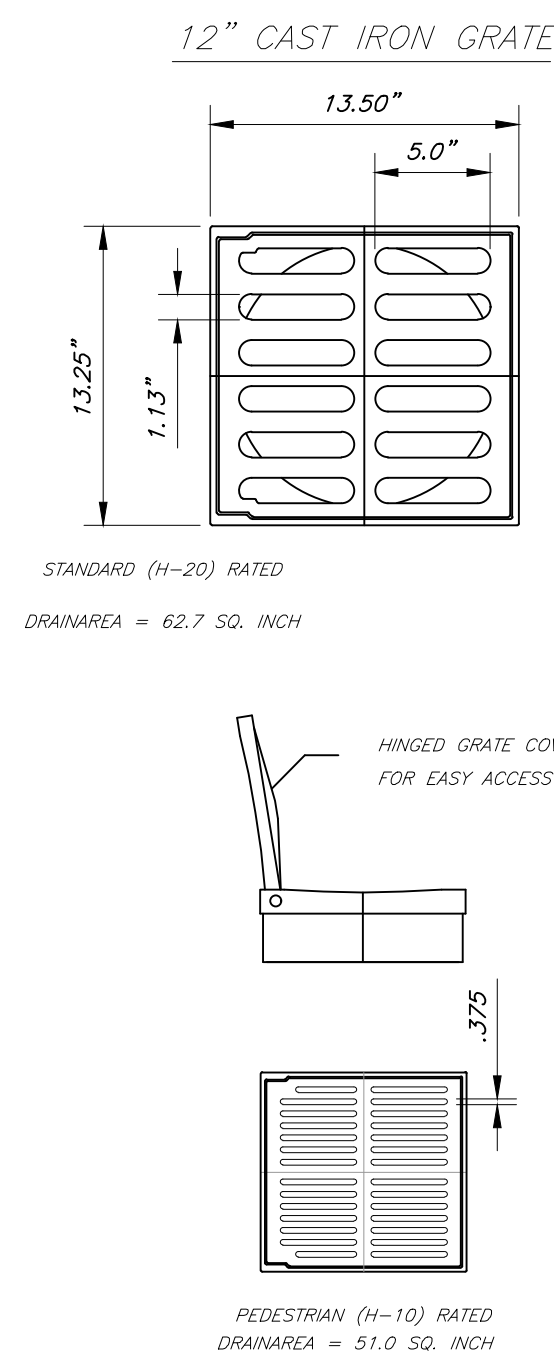
C-500



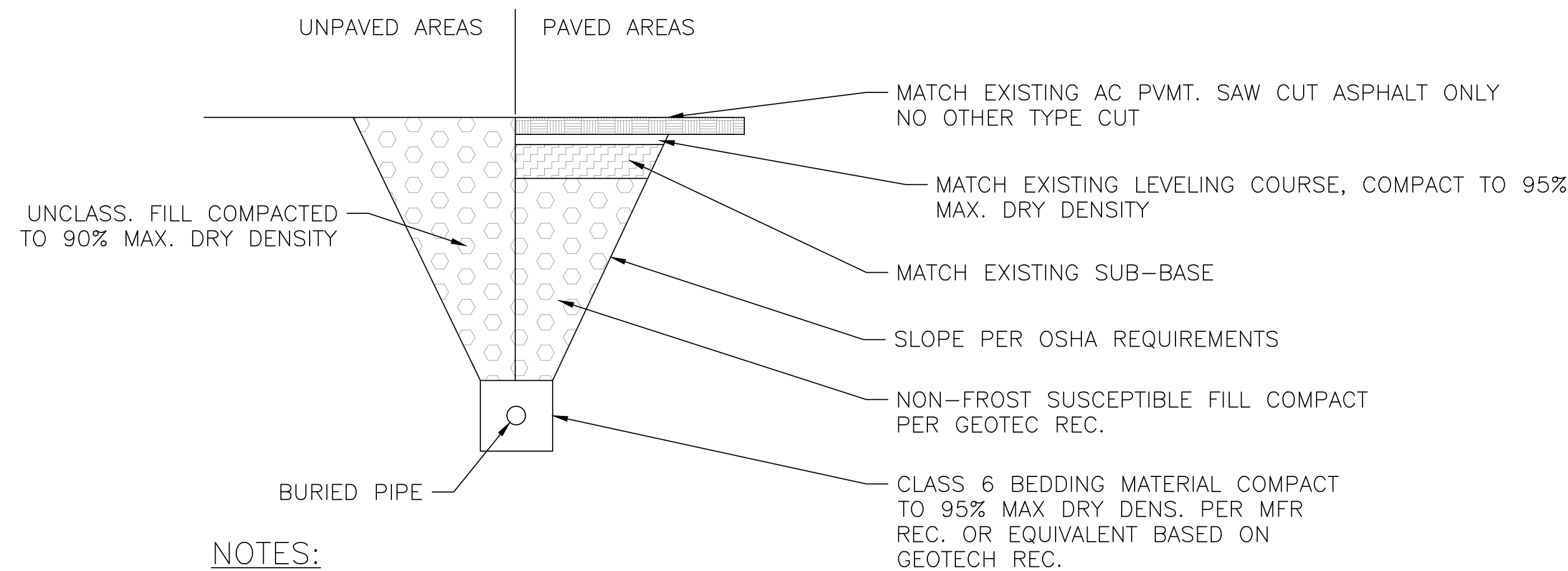
UNDERDRAIN TRENCH TYPICAL DETAIL
N.T.S.

NOTES:

1. TRENCH MUST BE SLOPED AS SHOWN OR BRACED FOR THE SAFETY OF CONSTRUCTION WORKERS. TRENCHING WILL BE SUBJECT TO MOST RECENT CONFINED SPACE AND OSHA REGULATIONS
2. PIPE SHALL BE PVC, SDR 35 OR STRONGER, PERFORATED PIPE w/ GLUED FITTINGS
3. DESIGN SLOPE OF 0.5%, MINIMUM.



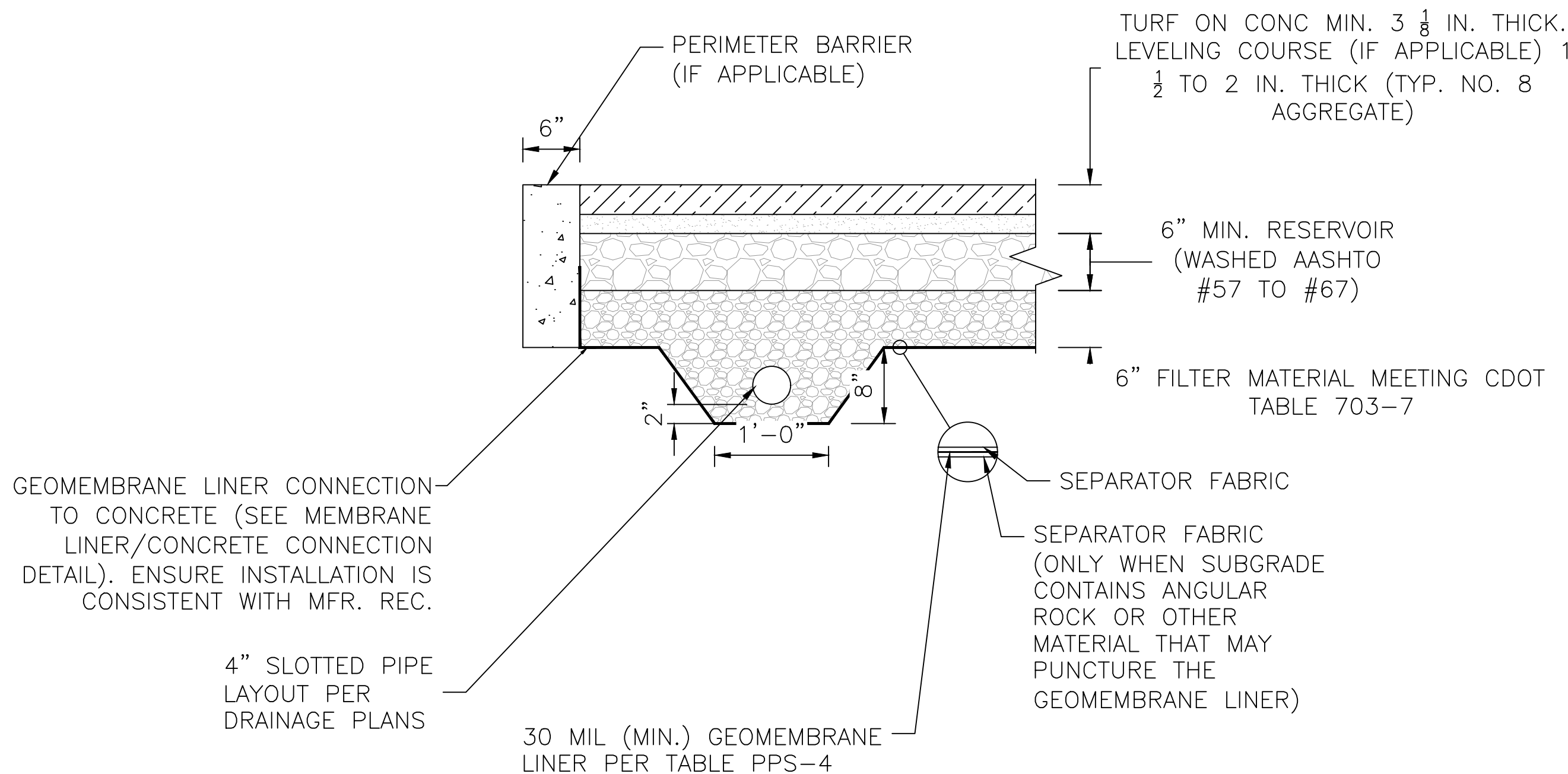
12" INLINE DRAIN



NOTES:

1. PLACE AND COMPACT BEDDING MATERIAL BEFORE INSTALLING PIPE.
2. PIPE BEDDING MUST BE IN PLACE, COMPACTED AND PIPE INSTALLED AT TIME OF CONC. INSTALLATION OBSERVATION

DRAINAGE PIPE DETAIL
N.T.S.



TYPICAL UNDERDRAIN SECTION (ALTERNATE)
N.T.S.

1. THE CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL CONTACT THE LANDSCAPE ARCHITECT FOR A PRE-CONSTRUCTION MEETING PRIOR TO START OF ANY WORK SHOWN ON THESE PLANS.
2. THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
3. DRAWINGS ARE INTENDED TO BE PRINTED ON _24_X_36_ PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS.
4. VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES.
5. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
6. SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK.
7. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
8. IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT, THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
9. CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
10. CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATES PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
13. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
14. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
17. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS.
18. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
19. COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
22. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
23. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
24. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
26. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL INSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE

- PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT.
- TRANSPORTATION METHODS ON PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
27. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
28. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
29. THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE IS PROHIBITED.
30. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
31. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
32. MAINTENANCE ACCESS BENCHES: IF MAINTENANCE BENCHES OR ACCESS ROADS EXIST ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE BENCHES OR ACCESS ROADS DURING CONSTRUCTION. ANY BENCHES OR ACCESS ROADS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING BENCHES AND ACCESS ROADS DURING THE CONSTRUCTION PERIOD. IF ACCESS NEEDS TO BE BLOCKED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INTERRUPTION OF ACCESS.
33. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES, GRAPHIC QUANTITIES TAKE PRECEDENCE OVER WRITTEN QUANTITIES.

THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.

THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.

THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.

REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE. IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES, HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT.

LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.

PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.

ALL LANDSCAPE AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION AT 4 cu.yrds/1,000sf OR AS NOTED IN THE TECHNICAL SPECIFICATIONS.

TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.

THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.

ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT

- SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
14. ALL TREES INSTALLED AFTER RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
15. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
16. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY EDGER AS SPECIFIED IN MATERIALS SCHEDULE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3' OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.
17. ALL SHRUB BEDS ARE TO BE MULCHED WITH LANDSCAPE MULCH AS SPECIFIED IN MATERIALS SCHEDULE. LANDSCAPE
18. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
19. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDDED AND RESTORED WITH SPECIFIED SEED MIX.
20. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
21. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
22. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
23. WHEN PLANTING URNS ARE SHOWN ON PLANS, CONTRACTOR SHALL INCLUDE THE FOLLOWING: PLANTER MIX, ANNUAL FLOWER PLANTING PROGRAM (INCLUDES 2 PLANTINGS FOR THE 1ST YEAR (SPRING AND FALL) AND WINTER HAND-WATERING AS NEEDED. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO PROVIDE ANNUAL PLANTING SELECTION FOR REVIEW BY OWNER. IRRIGATION FOR PLANTERS TO BE ON SEPARATE ZONE(S). CONTRACTOR TO COORDINATE PLACEMENT OF NECESSARY SLEEPING PRIOR TO PLACEMENT OF PAVEMENT.
24. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
25. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE AND IRRIGATION. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
26. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL IMPROVEMENTS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE IN THE PLANNING DEPARTMENT.

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
3. ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER REPRESENTATIVE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT A THOROUGH SITE INSPECTION AND REVIEW OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LANDSCAPE PLAN, UTILITY PLAN, CIVIL UTILITY PLAN, ARCHITECTURE PLAN, GRADING AND DRAINAGE PLAN AND ALL OTHER ASSOCIATED PLANS AND SPECIFICATIONS THAT AFFECT THIS WORK PRIOR TO START OF WORK. IF THE AND CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS ON SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
5. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN ALL IRRIGATION DISTRIBUTION LINES AND ALL UTILITIES (EXISTING OR PROPOSED), CONDUIT, STORM WATER COMPONENTS, DRAINS, ETC.
7. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS AND INSTALL THE IRRIGATION SYSTEM AND ITS COMPONENTS PER MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS REQUIRED BY ANY LOCAL AND STATE AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE.
8. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PAYING FOR CERTIFICATION OF THE BACKFLOW PREVENTER BY A STATE CERTIFIED INSPECTOR. THE CONTRACTOR SHALL PROVIDE CERTIFICATES TO OWNER'S REPRESENTATIVE PRIOR TO PROJECT ACCEPTANCE.
9. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN LANDSCAPE AREAS AND WITHIN THE PROJECT LIMITS. EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHIC CLARITY ONLY. IF THERE IS A QUESTION REGARDING THE LOCATION OF ANY COMPONENT OF THE IRRIGATION SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR NEGLECTS TO NOTIFY THE NECESSARY PARTIES, THE CONTRACTOR SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO ENSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYSTEM AND ITS COMPONENTS.
10. ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS, OR AS STIPULATED IN THE GEOTECHNICAL REPORT , WHICH EVER IS GREATER. EQUIPMENT MAY BE SHOWN IN THIS AREA FOR GRAPHIC CLARITY. COORDINATE ALL REQUIRED SETBACKS WITH OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
11. EACH VALVE SHALL BE INSTALLED IN A SEPARATE VALVE BOX AS DETAILED. ALL VALVE BOXES AND LIDS SHALL BE COMMERCIAL GRADE, PLASTIC WITH SELF LOCKING COVERS. LID COLOR TO BE GREEN. INSTALL FLUSH TO FINISH GRADE AND PER CONSTRUCTION DETAILS. DO NOT INSTALL IN PAVED AREAS OR IN BOTTOMS OF DRAINAGE SWALES/BASINS.
12. CONTRACTOR SHALL INSTALL DETECTABLE MARKING TAP OR #14g DIRECT BURY TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
13. PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER ROUTING OF IRRIGATION PIPING. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
14. IRRIGATION CONSTRUCTION DOCUMENTS TO BE PROVIDED WITH CONSTRUCTION DOCUMENT SUBMITTAL.
15. ALL TREES AND SHRUBS TO BE DRIP IRRIGATION.

- RAIN SENSOR TO BE PROVIDED WITH PERMANENT IRRIGATION SYSTEM.
17. NON-IRRIGATED NATIVE SEED SHALL HAVE TEMPORARY IRRIGATION FOR 3 YEARS TO ESTABLISH AREAS.
18. THE CONTRACTOR SHALL MARK THE LOCATION OF THE MAINLINE, CONTROL VALVES, GATE VALVES AND HEAD LAYOUT OF A REPRESENTATIVE SPRAY ZONE. SCHEDULE A REVIEW WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
19. INSTALL SCH. 40 BALL WITH OPERATIONAL INDICATOR AT ENDS OF ALL DRIP LATERALS AS DETAILED. FLUSH ALL LATERALS THOROUGHLY BEFORE INSTALLING EMITTERS AND BUBBLERS
20. CONTRACTOR SHALL FINE TUNE AND ADJUST NOZZLE DIRECTION AND RADIUS TO REDUCE OVERSPRAY ONTO PAVING OR HARD SURFACES.
21. CONTRACTOR SHALL INSTALL A QUICK COUPLER IN 10" VALVE BOX AT THE END OF ALL BRANCHES OF THE MAINLINE, OR AS SHOWN ON PLANS, FOR WINTERIZATION AND FLUSHING OF MAINLINE.
22. THE CONTRACTOR SHALL PERFORM A PRESSURE TEST ON ALL MAINLINES. CONTRACTOR SHALL PRESSURIZE MAINLINES TO 120 PSI AND MAINTAIN PRESSURE AT 120 PSI FOR A MINIMUM CONTINUOUS PERIOD OF TWO (2) HOURS TO ACHIEVE FINAL ACCEPTANCE.
23. THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE DURING A THREE(3) NIGHT PER WEEK, SIXTEEN(16) HOURS PER NIGHT WATERING WINDOW. DRIP IRRIGATION ZONES MAY BE ALLOWED TO RUN ON A SEPARATE SCHEDULE FROM THIS WATER WINDOW DEPENDING JURISDICTION. LANDSCAPE ESTABLISHMENT WILL REQUIRE INCREASED IRRIGATION WATER FOR DURATION OF THE ESTABLISHMENT PERIOD AND MAY REQUIRE TWICE THE AMOUNT OF WATER AS ESTABLISHED PLANT MATERIAL. THE CONTRACTOR SHALL COORDINATE WATERING SCHEDULES AND APPLICATION RATES WITH THE OWNER'S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE.
24. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED PEAK SEASON WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND VARIABLE WEATHER CONDITIONS.
 - FESCUE/BUEGRASS BLEND TURF 1.75" PER WEEK PEAK SEASON
 - TREE, SHRUB, AND PERENNIAL PLANT MATERIAL 1.00" PER WEEK PEAK SEASON
 - NATIVE DRAUGHT TOLERANT SEED MIX 0.75" PER WEEK PEAK SEASON
21. THE CONTRACTOR SHALL PROVIDE A SEASONAL MAINTENANCE SCHEDULE WHICH SHALL BEGIN APPROXIMATELY MAY 15TH AND END APPROXIMATELY SEPTEMBER 15TH TO ENSURE THE EFFICIENCY AND LONGEVITY OF THE IRRIGATION SYSTEM. THE MAINTENANCE SCHEDULE SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING LIST OF BEST MANAGEMENT PRACTICES:
 - CHECK HEADS FOR COVERAGE AND LEAKAGE.
 - CHECK CONTROLLER PROGRAMMING AND ADJUST FOR SEASONAL CHANGES AS NECESSARY.
 - VERIFY THAT THE WATER SUPPLY AND PRESSURE ARE AS STATED IN THE DESIGN.
 - CERTIFY THE BACKFLOW PREVENTION DEVICE AND SUBMIT TEST RESULTS TO THE PROPERTY MANAGER.
 - PERIODICALLY VERIFY THE THE SENSORS IN THE IRRIGATION SYSTEM ARE OPERATING CORRECTLY.
 - WINTERIZATION AND SPRING START UP PROCEDURES.

LP-001	LANDSCAPE NOTES
LP-002	LANDSCAPE SCHEDULE
LP-003	LANDSCAPE SCHEDULE ALTERNATE
LP-100	OVERALL LANDSCAPE PLAN
LP-101	LANDSCAPE PLAN
LP-102	LANDSCAPE PLAN
LP-400	OVERALL LANDSCAPE PLAN ALTERNATE
LP-401	LANDSCAPE PLAN ALTERNATE
LP-402	LANDSCAPE PLAN ALTERNATE
LP-501	LANDSCAPE DETAILS
LP-502	LANDSCAPE DETAILS
LI-001	IRRIGATION NOTES
LI-100	OVERALL IRRIGATION PLAN
LI-101	IRRIGATION PLAN
LI-102	IRRIGATION PLAN
LI-401	IRRIGATION PLAN (ALT)
LI-402	IRRIGATION PLAN (ALT)
LI-501	IRRIGATION DETAILS
LI-502	IRRIGATION DETAILS
LI-503	IRRIGATION DETAILS

SHEET #:

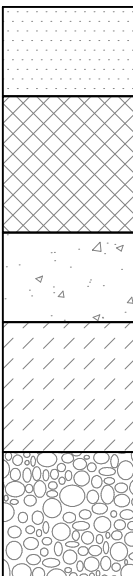
LP-001

	CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	M-01	PAVERS	WINDERMERE FLAGSTONE PAVERS	UNILOCK	N/A	N/A	SAFARI STONE, GREY SAND JOINTING	3-STONE RANDOM BUNDLE- PATTERN A	4/LP-502	REFER TO DETAIL, INSTALL PER MANURFACTURES SPECIFICATION
	M-02	COBBLE MULCH	HORIZON RIVER ROCK MULCH	PIONEER SAND OR LOCAL SUPPLIER (OR APPROVED EQUAL)	N/A		NATURAL	1.5" DIA., 4" MIN. DEPTH, SEE PLANS FOR AREA		TO BE INSTALLED IN ALL LANDSCAPE BEDS OVER SPECIFIED LANDSCAPE BARRIER FABRIC. SEE SPECIFICATIONS.
	M-03	CONCRETE	REFER:CIVIL				NATURAL. SWIRL FINISH			
	M-04	SYNTHETIC TURF	LANDSCAPE FRESH	FOREVERLAWN	DENA PARKER <DENA@FOREVERLAWN MILEHIGH.COM>	N/A	YARN: SUMMER GREEN, SECONDARY:TURF GREEN	7/8" PILE	2 / LP-501	INSTALL PER MANUFACTURER'S SPECIFICATIONS. REFER TO DETAIL
	M-07	BENDA BOARD EDGER	BENDA BOARD EDGER	EPIC PLASTICS OR APPROVED EQUAL	N/A	N/A	TEAK	1"x6" REFER TO PLANS FOR LENGTH AND LOCATION	2/LP-502	INSTALL PER MANUFACTURER'S SPECIFICATIONS, REFER TO DETAIL.
	M-08	THIN STONE VENEER	THIN STONE VENEER	LYONS SANDSTONE OR APPROVED EQUAL			ASPEN LEDGE	3" X 18" VEIN CUT (SPLIT FACE) SAWN FINISH WITH LIGHT GREY MORTAR		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER
	M-09	STONE CAP	STONE CAP	LYONS SANDSTONE OR APPROVED EQUAL	N/A	MEDIUM SLAB	ASPEN LEDGE	3" THICK, 24" LENGTH, NATURAL CLEFT TOP AND SNAP CUT EDGES		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER

AMENITY MATERIALS SCHEDULE									
CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-01	SHADESAIL (A)	TENSHON SHADESAILS	TENSHON	INFO@TENSHON.COM	TS-1724	TBD	24 X 17 X 17		
SYMBOL	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
MS-03	POOL LOUNGER	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONT RACT.COM	LAV40440	FRAME FINISH: TEXTURED WHITE, SLING: PHIFERTEX WHITNEY AQUAMARINE SLING	22" W X 53" D X 14" H	WEATHER-RESISTANT POWDER-COATED PREMIUM ALUMINUM FRAME. 4 POS. RECLINING BACK, LATS FLAT STACK ABLE	PHASE 2 RECOMMENDED SITE FURNITURE/AMENITIES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITIES LIST TO PROVID DIRECTION TO FURTURE IMPROVEMENTS
MS-04	POOL DINING SETS	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONT RACT.COM	LAVCPSTNESLDIN ET1	ALUMINIUM 42" ROUND TABLE - FRAME FINISH: TEXTURED WHITE. ARM CHAIR: FRAME FINISH: TEXTURE WHITE, SLING FABRIC: PHIFERTEX WHITNEY AQUAMIRINE SLING.	TABLE: 42" W X 42" D X 30" H. ARMED CHAIR: 26" W X 28" D X 35" H	4-PERSON SEATING SET	PHASE 2 RECOMMENDED SITE FURNITURE/AMENITIES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITIES LIST TO PROVID DIRECTION TO FURTURE IMPROVEMENTS

CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS CANOPY TREES								
GL SH	5	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	B & B	3" CAL.	MOD	40'-50'	25'-30'
PO ER	21	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN	B & B	3" CAL.	MOD	40'-50'	8'-10'
TI GR	3	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	B & B	2" CAL	MOD	30'-40'	25'-30'
EVERGREEN TREES								
PI PU	1	PICEA PUNGENS	COLORADO SPRUCE	B & B	6' HEIGHT	MOD	40'-50'	25'-30'
PS ME	5	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	B & B	6' HEIGHT	MOD	50'-80'	20'-25'
ORNAMENTAL TREES								
AM AL	1	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	B & B	6' CLUMP	LOW	15'-20'	8'-10'
DECIDUOUS SHRUBS								
EU AL	11	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH	CONT.	#5	MOD	7'-8'	7'-8'
FO SB	7	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	CONT.	#5	LOW	5'-6'	5'-6'
PO FR	10	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	CONT.	#5	LOW	2'-3'	2'-3'
EVERGREEN SHRUBS								
AR UV	18	ARCTOSTAPHYLOS UVA-URSI	KINNIKINICK	CONT.	#1	LOW	<1'	4'-5'
ORNAMENTAL GRASSES								
CA KA	29	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	CONT.	#5	LOW	3'-4'	1'-2'
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	NOTES		
GROUND COVERS								
TUR BLA	7,069 SF	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD	-				
SEE PBS	14,507 SF	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED	-				

ALTERNATE LANDSCAPE MATERIALS SCHEDULE

	CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	M-01	PAVERS	WINDERMERE FLAGSTONE PAVERS	UNILOCK	N/A	N/A	SAFARI STONE, GREY SAND JOINTING	3-STONE RANDOM BUNDLE- PATTERN A	4/LP-502	REFER TO DETAIL, INSTALL PER MANUFACTURES SPECIFICATION
	M-02	COBBLE MULCH	HORIZON RIVER ROCK MULCH	PIONEER SAND OR LOCAL SUPPLIER (OR APPROVED EQUAL)	N/A		NATURAL	1.5" DIA., 4" MIN. DEPTH, SEE PLANS FOR AREA		TO BE INSTALLED IN ALL LANDSCAPE BEDS OVER SPECIFIED LANDSCAPE BARRIER FABRIC. SEE SPECIFICATIONS
	M-03	CONCRETE	REFER:CIVIL				NATURAL. SWIRL FINISH			
	M-04	SYNTHETIC TURF	LANDSCAPE FRESH	FOREVERLAWN	DENA PARKER <DENA@FOREVERLAWN MILEHIGH.COM>	N/A	YARN: SUMMER GREEN, SECONDARY:TURF GREEN	7/8" PILE	2 / LP-501	INSTALL PER MANUFACTURER'S SPECIFICATIONS, REFER TO DETAIL
	M-05	BOULDER RIP RAP	MOUNTAIN GRANITE	PIONEER SAND OR APPROVED EQUAL	N/A	N/A	ORANGESM BROWN, RED TONES, GREAY AND CREAM	5"-18"		
	M-07	BENDA BOARD EDGER	BENDA BOARD EDGER	EPIC PLASTICS OR APPROVED EQUAL	N/A	N/A	TEAK	1"X6" REFER TO PLANS FOR LENGTH AND LOCATION	2/LP-502	INSTALL PER MANUFACTURER'S SPECIFICATIONS, REFER TO DETAIL.
	M-08	THIN STONE VENEER	THIN STONE VENEER	LYONS SANDSTONE OR APPROVED EQUAL			ASPEN LEDGE	3" X 18" VEIN CUT (SPLIT FACE) SAWN FINISH WITH LIGHT GREY MORTAR		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER
	M-09	STONE CAP	STONE CAP	LYONS SANDSTONE OR APPROVED EQUAL	N/A	MEDIUM SLAB	ASPEN LEDGE	3" THICK, 24" LENGTH, NATURAL CLEFT TOP AND SNAP CUT EDGES		INSTALL PER MANUFACTURERS SPECIFICATIONS. REFER TO DETAILS AND PLANTS.FOR LOCATIONS. INSTALL WITH PLYMER ENHANCED BACKER
		CODE	DESCRIPTION	DETAIL						
	N-01	TREE PLANTING	3 / LP-501							
	N-02	SHRUB PLANTING	1/ LP-501							
	N-03	TREE PLANTING ON SLOPE	3 / LP-502							
	N-04	CONCRETE PLANTER SEATWALL	5 / LP-502							
	N-05	6" CONCRETE CURB								

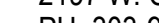
ALTERNATE AMENITIES SCHEDULE

	CODE	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	MS-01	SHADESAIL (A)	TENSHON SHADESAILS	TENSHON	INFO@TENSHON.COM	TS-1724	TBD	24 X 17 X 17		
	MS-02	SHADESAIL (B)	TENSHON SHADESAIL	TENSHON	INFO@TENSHON.COM	CUSTOM	TBD	36 X 25 X 25		
	SYMBOL	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	MODEL #	COLOR / FINISH	SIZE / DIMENSIONS	DETAIL	NOTES
	MS-03	POOL LOUNGER	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTACTOR.COM	LAV40440	FRAME FINISH: TEXTURED WHITE, SLING: PHIFERTEX WHITNEY AQUAMARINE SLING	22" W X 53" D X 14" H	WEATHER-RESISTANT POWDER-COATED PREMIUM ALUMINUM FRAME. 4 POS. RECLINING BACK, LATS FLAT, STACKABLE	PHASE 2 RECOMMENDED SITE FURNITURE/AMENITIES. PHASE 2 IS NOT INCLUDED IN SCOPE OF WORK. AMENITIES LIST TO PROVIDE DIRECTION TO FUTURE IMPROVEMENTS
	MS-04	POOL DINING SETS	LANE VENTURE CASPTONE ALUMINUM DINING SET	CAPSTONE SLING COLLECTION	WWW.PATIOCONTACTOR.COM	LAVCPSTNESLDINSET1	ALUMINIUM 42" ROUND TABLE - FRAME FINISH: TEXTURED WHITE. ARM	TABLE: 42" W X 42" D X 30" H. ARMED CHAIR:	4-PERSON SEATING SET	PHASE 2 RECOMMENDED SITE FURNITURE/AMENITIES. PHASE 2 IS NOT INCLUDED IN SCOPE OF

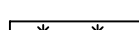
ALTERNATE PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	WATER USE	HEIGHT	SPREAD
DECIDUOUS CANOPY TREES								
GL SH	5	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	B & B	3" CAL.	MOD	40'-50'	25'-30'
PO ER	20	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN	B & B	3" CAL.	MOD	40'-50'	8'-10'
TI GR	3	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	B & B	2" CAL	MOD	30'-40'	25'-30'
EVERGREEN TREES								
PI PU	2	PICEA PUNGENS	COLORADO SPRUCE	B & B	6' HEIGHT	MOD	40'-50'	25'-30'
PS ME	4	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	B & B	6' HEIGHT	MOD	50'-80'	20'-25'
ORNAMENTAL TREES								
AM AL	1	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	B & B	6' CLUMP	LOW	15'-20'	8'-10'
DECIDUOUS SHRUBS								
EU AL	10	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH	CONT.	#5	MOD	7'-8'	7'-8'
FO SB	6	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	CONT.	#5	LOW	5'-6'	5'-6'
PO FR	10	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	CONT.	#5	LOW	2'-3'	2'-3'
EVERGREEN SHRUBS								
AR UV	18	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	CONT.	#1	LOW	<1'	4'-5'
ORNAMENTAL GRASSES								
CA KA	24	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	CONT.	#5	LOW	3'-4'	1'-2'
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	NOTES		
GROUND COVERS								
TUR BLA	5,441 SF	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD	-				
SEE PBS	14,218 SF	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED	-				

IRRIGATED LOW WATER TURF BLEND

	SOD: COLORADO BLACK BEAUTY FESCUE SOD
	2197 W. COLLEGE AVE. ENGLEWOOD, CO 80110
	PH: 303-922-6392
RIGATED NATIVE SEED MIX (AND TEMP)	
	COMMON NAME
	ARIZONA FESCUE
	SANDBERG BLUEGRASS
	ROCKY MOUNTAIN FESCUE
TOTAL: 100	
PAWNEEBUTTESSEED.COM	
SPREAD SEED AT A RATE OF 5LBS PER 1,000 SQFT	

IRRIGATED NATIVE SEED MIX (AND TEMP)

	COMMON NAME
	ARIZONA FESCUE
	SANDBERG BLUEGRASS
	ROCKY MOUNTAIN FESCUE
	TOTAL: 100
	PAWNEEBUTTESSEED.COM
	SPREAD SEED AT A RATE OF 5LBS PER 1,000 SQFT



**2000 LAWRENCE ST
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NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: N/A
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: ALTERNATE LANDSCAPE
SCHEDULE

SHEET #

LP-003



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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DDs
	02/16/2024	EAGLE SITE PLAN APPLICATION
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 20'-0"

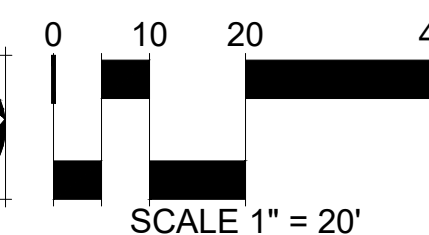
ISSUE DATE: 03/11/2024

PROJECT #: 1250-01-3647

TITLE: OVERALL LANDSCAPE
PLAN

SHEET #:

LP-100





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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

	CODE	DESCRIPTION
	M-01	PAVERS
	M-02	COBBLE MULCH
	M-03	CONCRETE
	M-04	SYNTHETIC TURF
	M-07	BENDA BOARD EDGER
	M-08	THIN STONE VENEER
	M-09	STONE CAP
	CODE	DESCRIPTION
	MS-01	SHADESAIL (A)

	SYMBOL	DESCRIPTION
	MS-03	POOL LOUNGER
	MS-04	POOL DINING SETS
	CODE	DESCRIPTION
	N-01	TREE PLANTING
	N-02	SHRUB PLANTING
	N-03	TREE PLANTING ON SLOPE
	N-04	CONCRETE PLANTER SEATWALL
	N-05	6" CONCRETE CURB

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

CODE	BOTANICAL NAME	COMMON NAME
<u>DECIDUOUS CANOPY TREES</u>		
GL SH	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN
<u>EVERGREEN TREES</u>		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
<u>ORNAMENTAL TREES</u>		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
<u>DECIDUOUS SHRUBS</u>		
EU AL	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH
FO SB	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL
<u>EVERGREEN SHRUBS</u>		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
<u>ORNAMENTAL GRASSES</u>		
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS

GROUND COVERS

	TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

[illegible]

SCALE: 1" = 10'-0"
 ISSUE DATE: 03/11/2024
 PROJECT #: 1250-01-3647
 TITLE: LANDSCAPE PLAN

SHEET #:

LP-101



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NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

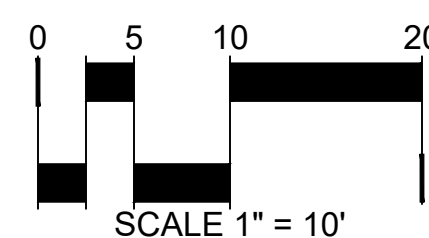
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1" = 10'-0"
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE PLAN

SHEET #:

LP-102



	CODE	DESCRIPTION
	M-01	PAVERS
	M-02	COBBLE MULCH
	M-03	CONCRETE
	M-04	SYNTHETIC TURF
	M-07	BENDA BOARD EDGER
	M-08	THIN STONE VENEER
	M-09	STONE CAP
	CODE	DESCRIPTION
	MS-01	SHADESAIL (A)
	SYMBOL	DESCRIPTION
	MS-03	POOL LOUNGER
	MS-04	POOL DINING SETS
	CODE	DESCRIPTION
	N-01	TREE PLANTING
	N-02	SHRUB PLANTING
	N-03	TREE PLANTING ON SLOPE
	N-04	CONCRETE PLANTER SEATWALL
	N-05	6" CONCRETE CURB



6' CHAIN LINK BLACK FENCE
 6' STEEL BLACK POOL FENCE
 EXISTING GRADE
 PROPOSED GRADE

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

<u>CODE</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>
<u>DECIDUOUS CANOPY TREES</u>		
GL SH	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN
<u>EVERGREEN TREES</u>		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
<u>ORNAMENTAL TREES</u>		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
<u>DECIDUOUS SHRUBS</u>		
EU AL	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH
FO SB	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL
<u>EVERGREEN SHRUBS</u>		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
<u>ORNAMENTAL GRASSES</u>		
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS

GROUND COVERS

	TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
	SEE PBS	SEED PBS! LOW GROW NATIVE SEED MIX	BY PANWEE BUTTES SEED

MATCHLINE LP-101



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Mountain Recreation Eagle Pool

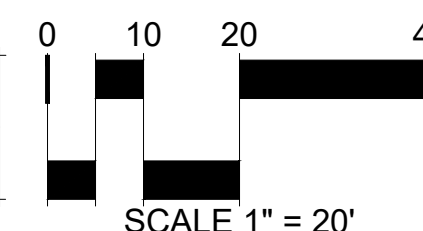
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
	01/22/2024	100% DDs
	02/16/2024	EAGLE SITE PLAN APPLICATION
	03/11/2024	50% CDs
	03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 20'-0"
 ISSUE DATE: 03/11/2024
 PROJECT #: 1250-01-3647
 TITLE: OVERALL LANDSCAPE
 PLAN ALTERNATE

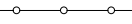
SHEET #:

LP-400





	CODE	DESCRIPTION
	M-01	PAVERS
	M-02	COBBLE MULCH
	M-03	CONCRETE
	M-04	SYNTHETIC TURF
	M-05	BOULDER RIP RAP
	M-07	BENDA BOARD EDGER
	M-08	THIN STONE VENEER
	M-09	STONE CAP
	MS-01	SHADESAIL (A)
	CODE	DESCRIPTION
	N-01	TREE PLANTING
	N-02	SHRUB PLANTING
	N-03	TREE PLANTING ON SLOPE
	N-04	CONCRETE PLANTER SEATWALL
	N-05	6" CONCRETE CURB



6' CHAIN LINK BLACK FENCE
 6' STEEL BLACK POOL FENCE
 EXISTING GRADE
 PROPOSED GRADE

NOTES:
1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

PLANT SCHEDULE

<u>CODE</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>
<u>DECIDUOUS CANOPY TREES</u>		
GL SH	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN
TI GR	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN
<u>EVERGREEN TREES</u>		
PI PU	PICEA PUNGENS	COLORADO SPRUCE
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR
<u>ORNAMENTAL TREES</u>		
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY
<u>DECIDUOUS SHRUBS</u>		
EU AL	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH
FO SB	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL
<u>EVERGREEN SHRUBS</u>		
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK
<u>ORNAMENTAL GRASSES</u>		
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS

GROUND COVERS

	TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

MATCHLINE LP-402

EX TREES TO REMAIN

PHASE 2 RECOMMENDED SITE
FURNISHINGS. NOT INCLUDED IN
SCOPE OF WORK. REF: AMENITIES
SCHEDULE, MS-03 & MS-04, L-003

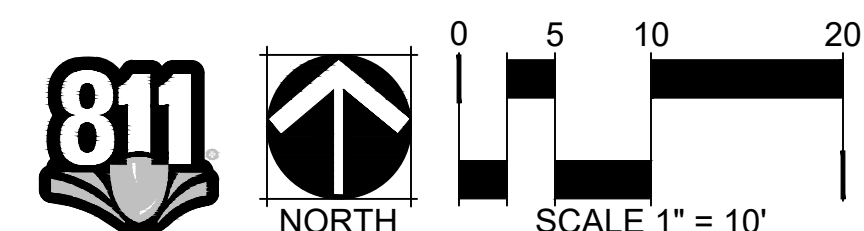
DATE: TITLE/PURPOSE:

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SCALE: 1" = 10'-0"
 ISSUE DATE: 03/11/2024
 PROJECT #: 1250-01-3647
 TITLE: LANDSCAPE
 ALTERNATE

SHEET #:

LP-401





LEGEND

	CODE	DESCRIPTION
	M-01	PAVERS
	M-02	COBBLE MULCH
	M-03	CONCRETE
	M-04	SYNTHETIC TURF
	M-05	BOULDER RIP RAP
	M-07	BENDA BOARD EDGER
	M-08	THIN STONE VENEER
	M-09	STONE CAP
	MS-01	SHADESAIL (A)
	CODE	DESCRIPTION
	N-01	TREE PLANTING
	N-02	SHRUB PLANTING
	N-03	TREE PLANTING ON SLOPE
	N-04	CONCRETE PLANTER SEATWALL
	N-05	6" CONCRETE CURB

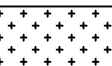
-
- 6' CHAIN LINK BLACK FENCE
 6' STEEL BLACK POOL FENCE
 EXISTING GRADE
 PROPOSED GRADE

NOTES

1. ALL SITE FURNITURE WILL BE PURCHASED/INSTALLED IN FUTURE PHASES.

PLANTING LEGEND

PLANT SCHEDULE

CODE	BOTANICAL NAME		COMMON NAME
<u>DECIDUOUS CANOPY TREES</u>			
GL SH	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	
PO ER	POPULUS TREMULOIDES ERECTA	SWEDISH ASPEN	
TI GR	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	
<u>EVERGREEN TREES</u>			
PI PU	PICEA PUNGENS	COLORADO SPRUCE	
PS ME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	
<u>ORNAMENTAL TREES</u>			
AM AL	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	
<u>DECIDUOUS SHRUBS</u>			
EU AL	EUONYMUS ALATUS 'COMPACTUS'	COMPACT BURNING BUSH	
FO SB	FORSYTHIA X INTERMEDIA 'NIMBUS'	SHOW OFF® SUGAR BABY® DWARF FORSYTHIA	
PO FR	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	
<u>EVERGREEN SHRUBS</u>			
AR UV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	
<u>ORNAMENTAL GRASSES</u>			
CA KA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	
<u>GROUND COVERS</u>			
	TUR BLA	COLORADO BLACK BEAUTY FESCUE SOD	COLORADO BLACK BEAUTY FESCUE SOD
	SEE PBS	SEED PBSI LOW GROW NATIVE SEED MIX	BY PAWNEE BUTTES SEED

D. DATE: TITLE/PURPOSE:

01/22/2024	100% DDs
02/16/2024	EAGLE SITE PLAN APPLICATION
03/11/2024	50% CDs
03/22/2024	EAGLE SITE PLAN APPLICATION 02

SCALE: 1" = 10'-0"

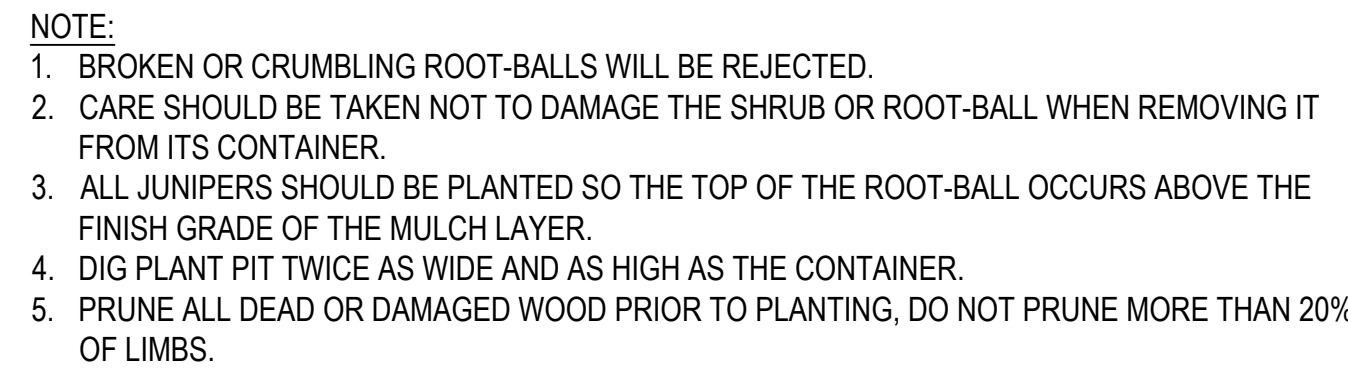
ISSUE DATE: 03/11/2024

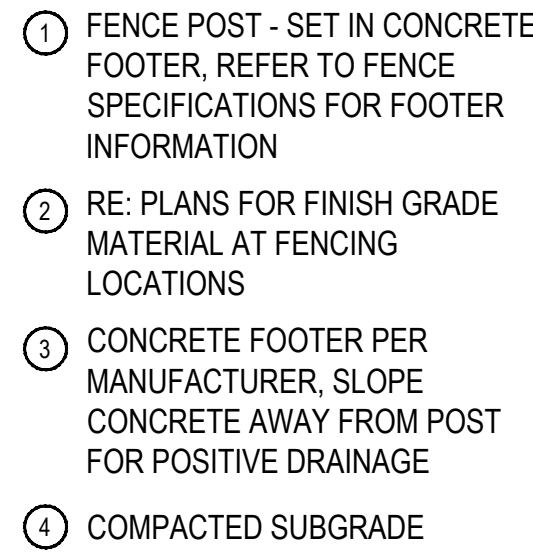
PROJECT #: 1250-01-3647

TITLE: LANDSCAPE PLAN;
ALTERNATE

SHEET #:

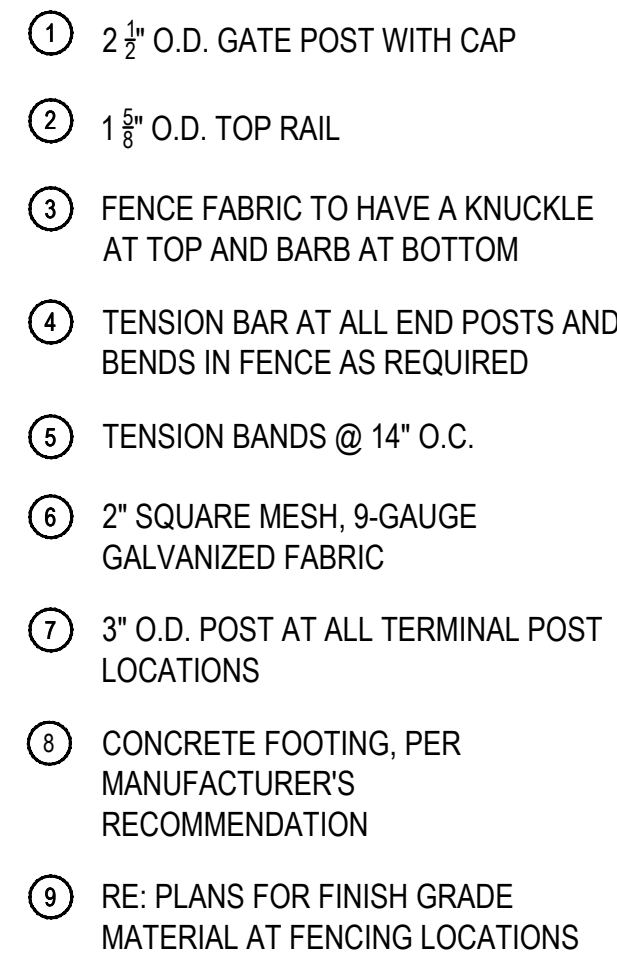
LP-402





1. FENCE SHALL BE BY AMERISTAR FENCE OR APPROVED EQUAL, CONTACT: AARON COPE 918-879-5884 acope@ameristarfence.com
www.ameristarfence.com
2. FENCE STYLE FOR POOL ENCLOSURE SHALL BE: MONTAGE PLUS MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
3. FENCE STYLE FOR ALL OTHER LOCATIONS SHALL BE: MONTAGE PLUS (STANDARD 4" PICKET SPACING) MAJESTIC - 3 RAIL, NO FLUSH BOTTOM
4. COLOR: BLACK

SCALE: 3/4" = 1'-0"



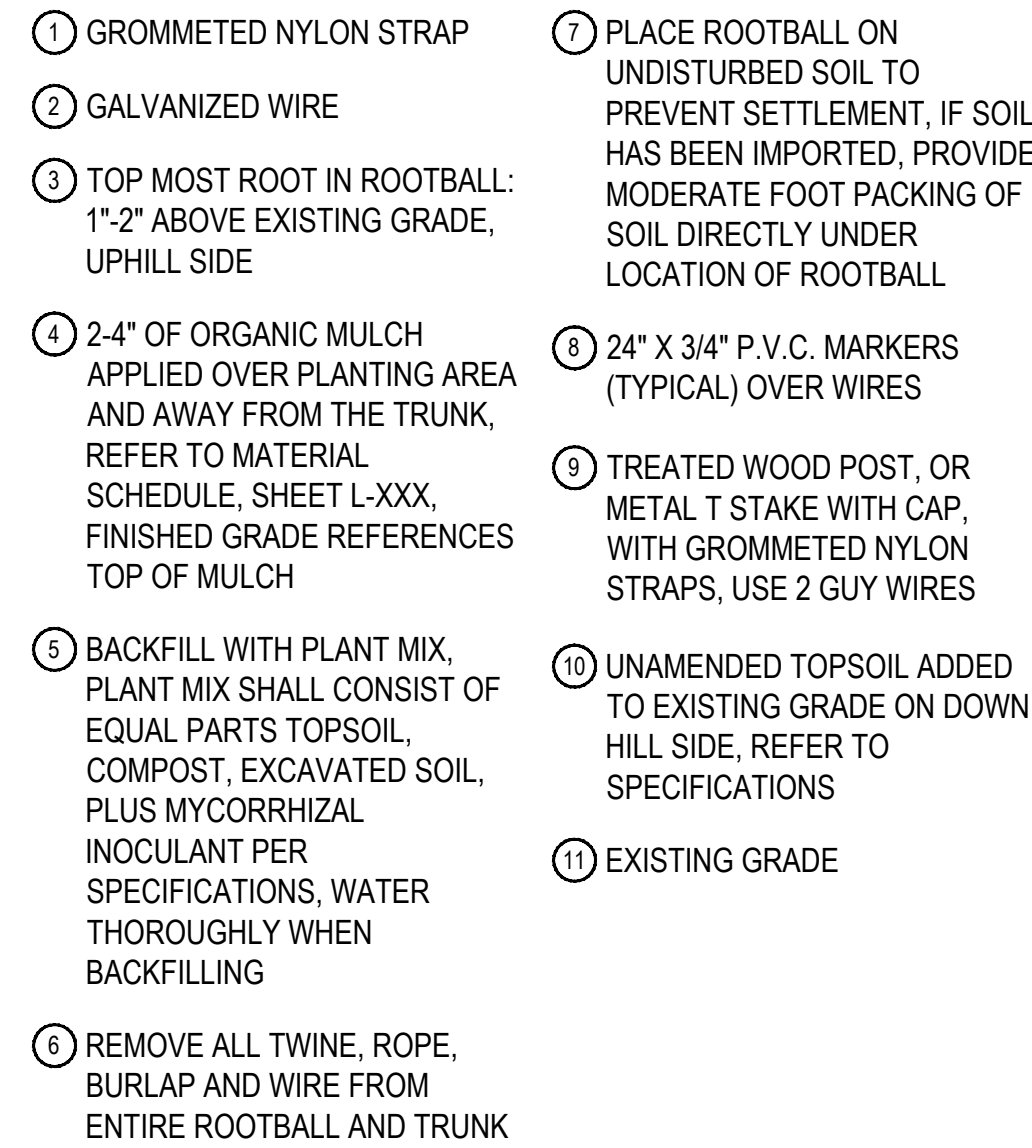
1. NORRIS DESIGN HAS PROVIDED THIS DETAIL FOR REFERENCE PURPOSE, THIS DETAIL HAS NOT BEEN ENGINEERED.
2. THIS DETAIL SHOWS DESIGN INTENT OF MATERIALS, FINISHES, AND APPROXIMATE DIMENSIONS ONLY.
3. REINFORCEMENT AND FOOTINGS TO BE PROVIDED BY STRUCTURAL AND/OR BY FENCE CONTRACTOR BASED ON RECOMMENDATIONS IN GEOTECH REPORT, MEETING ALL APPLICABLE CODES.
4. CONTRACTOR TO INSTALL FENCE AND GATES AS RECOMMENDED BY MANUFACTURER
5. NORRIS DESIGN IS NOT RESPONSIBLE FOR STRUCTURAL DESIGN AND CALCULATIONS.
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT / STRUCTURAL / CIVIL / CITY FOR APPROVAL.
7. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL.
8. ALL MESH SHALL BE GALVANIZED STEEL.
9. ALL GATES SHALL BE LOCKING OR HAVE THE CAPABILITY TO BE LOCKED.

SCALE: 1/2" = 1'-0"

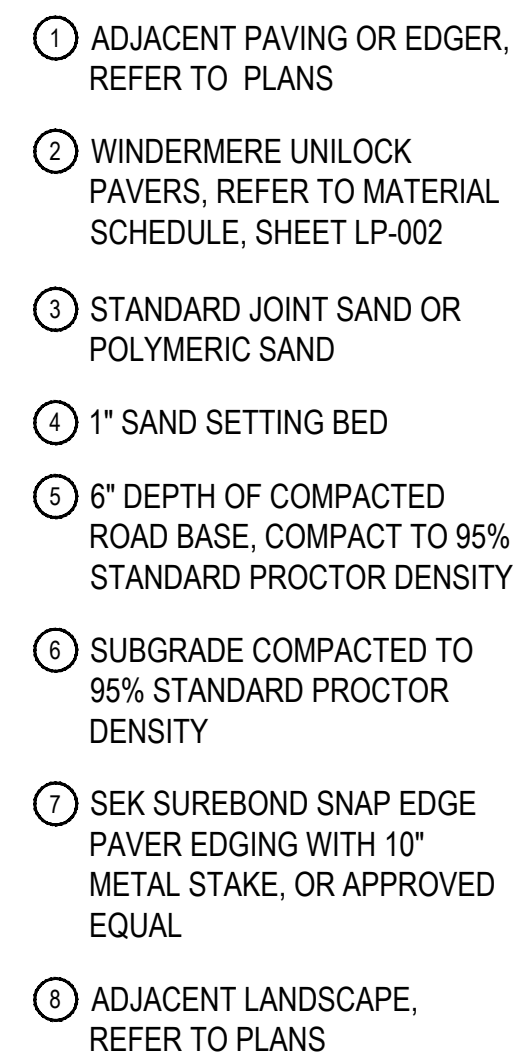
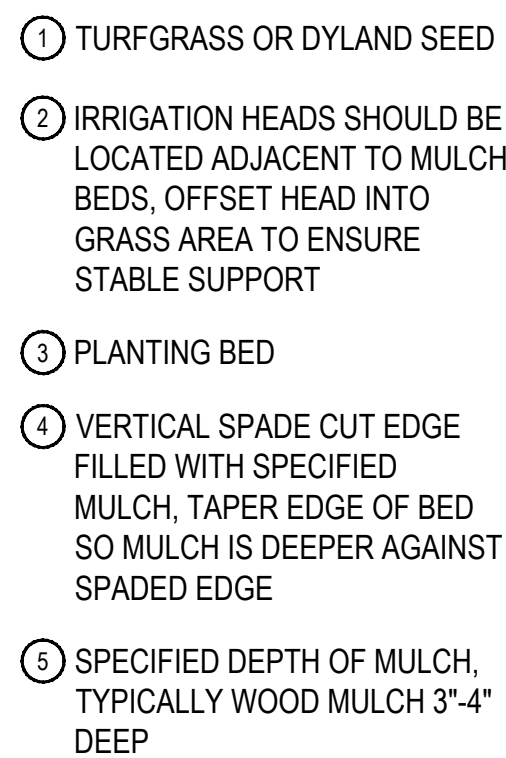
1. EXCAVATE PLANTING HOLES WITH SLOPING SIDES. MAKE EXCAVATIONS AT LEAST THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER AND LESS THAN THE DISTANCE FROM THE TOP MOST ROOT AND THE BOTTOM OF THE ROOT BALL. THE PLANTING AREA SHALL BE LOOSESED AND AERATED AT LEAST THREE TO FIVE TIMES THE DIAMETER OF THE ROOT BALL. REFERENCE TREE PLANTING DETAIL. FOR BACKFILL NOTES.
2. TREES SHALL BE PLANTED WITH THE TOP MOST ROOT IN THE ROOT BALL 3" TO 5" HIGHER THAN THE FINISHED LANDSCAPE GRADE. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED.
3. FORM SOIL INTO A 3" TO 5" TALL WATERING RING (SAUCER) AROUND PLANTING AREA. THIS IS NOT NECESSARY IN IRRIGATED TURF AREAS. APPLY 3" TO 4" DEPTH OF SPECIFIED MULCH INSIDE WATERING RING.

1. ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS.
2. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

1. STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF (3) THREE YEARS ANCHOR TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUNK OF TREE. WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
 - a. 2" CALIPER SIZE AND UNDER DECIDUOUS AND ASPEN TREES - MINIMUM 2 STAKES - ONE ON N.W. SIDE, ONE ON S.W. SIDE (OR PREVAILING WIND SIDE AND 180° FROM THAT SIDE).
 - b. EVERGREEN TREES - 3 STAKES PER DIAGRAM.
 - c. 3" CALIPER SIZE AND LARGER - 3 STAKES PER DIAGRAM.
2. WIRE OR CABLE SHALL BE MINIMUM 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
3. ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.
4. USE GUY ASSEMBLIES FOR EVERGREENS AND TREES OVER 3" CALIPER. ALL WIRE TO BE MINIMUM 12 GAUGE GALVANIZED.



SCALE: 1/4" = 1'-0"



1. PROVIDE SMOOTH TRANSITION BETWEEN PLANK PAVING AND ADJACENT SURFACES.
2. PROVIDE POSITIVE DRAINAGE FROM ALL PAVING SURFACES.

SCALE: 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"

NOT FOR CONSTRUCTION

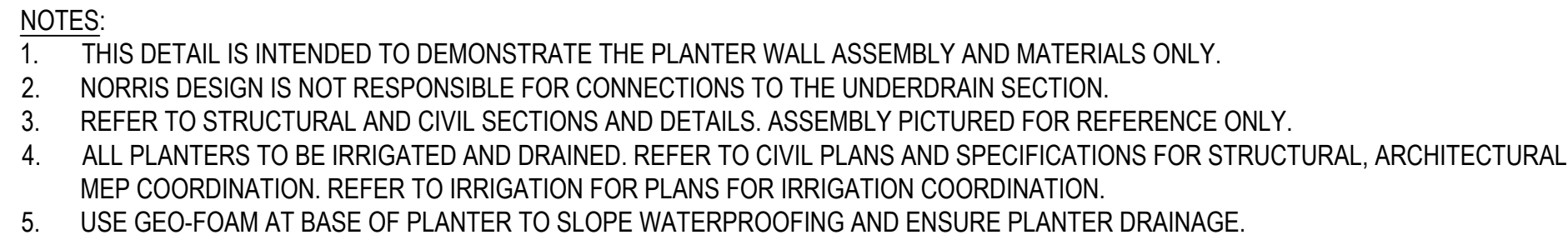
Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

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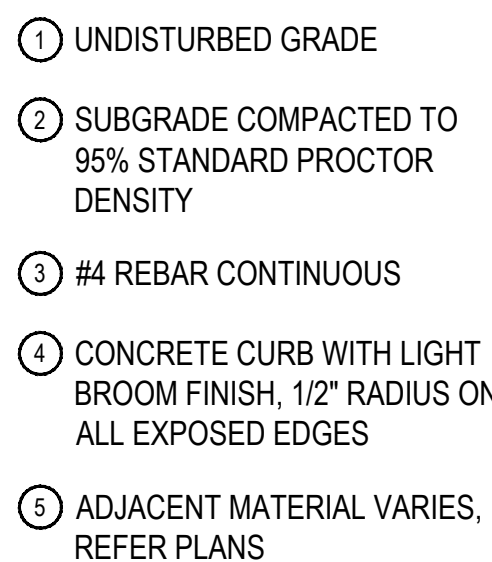
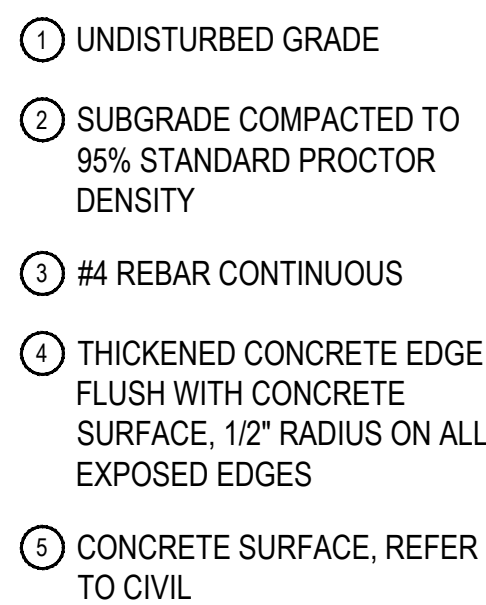
SCALE: VARIES
ISSUE DATE: 03/11/2024
PROJECT #: 1250-01-3647
TITLE: LANDSCAPE DETAILS

LP-502



- | | |
|---|---|
| ① THIN STONE VENEER, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-08, LP-003 | ⑧ ADJACENT CONCRETE, REFER TO CIVIL FOR ASSEMBLY |
| ② 6" WIDTH CAST IN PLACE CONCRETE WALL, REFER TO STRUCTURAL | ⑨ GEO-MEMBRANE, LINER CONNECTIONS AND CONCRETE DETAIL, REFER TO CIVIL |
| ③ REBAR REINFORCEMENTS AND SLAB TIES WITH WATERPROOFED PENETRATIONS, REFER TO STRUCTURAL | ⑩ LANDSCAPE MULCH, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-02 , LP-003 |
| ④ PLANTER INTERIOR WATERPROOFING MEMBRANE , REFER TO CIVIL PLANS AND SPECIFICATIONS. | ⑪ CONDUIT TO BE INSTALLED FOR IRRIGATION, REFER TO IRRIGATION PLANS |
| ⑤ OVER STRUCTURE SOIL, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-06, LP-003 | ⑫ MIRIFI FILTER FABRIC BETWEEN POTTING SOIL AND DRAINAGE AGGREGATE |
| ⑥ PLANTER DRAINS SEE DRAIN PLAN FOR LOCATIONS REFERENCE PLUMBING AND CIVIL FOR SPECIFICATIONS AND DETAILS | ⑬ MINIMUM 2" DEPTH 3/4"-1.5" CLEAN, ROUNDED AGGREGATE BASE TO ENSURE DRAINAGE OF PLANTER |
| ⑦ STONE CAP, REFER TO LANDSCAPE MATERIALS SCHEDULE, M-09, LP-003 | ⑭ INSTALL GEO-FOAM, OR SLOPE BASE OF PLANTER TO DIRECT DRAINAGE TOWARDS PLANTER DRAINS, REFER TO CIVIL FOR WATERPROOFING SPECIFICATION, INSTALL WATERPROOFING PER MANUFACTURER SPECIFICATIONS |

SCALE: 1/2" = 1'-0"



- NOTES:**
1. PROVIDE CONTROL JOINTS AT 6' ON CENTER AND EXPANSION JOINTS AT 24' ON CENTER.
 2. MINIMUM BURY DEPTH ON ALL REBAR SHALL BE 2-1/2", UNLESS OTHERWISE NOTED.
 3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.

- NOTES:**
1. PROVIDE CONTROL JOINTS AT 6' ON CENTER AND EXPANSION JOINTS AT 24' ON CENTER.
 2. MINIMUM BURY DEPTH ON ALL REBAR SHALL BE 2-1/2", UNLESS OTHERWISE NOTED.
 3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.

SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"

NOT FOR CONSTRUCTION

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: **VARIES**
 ISSUE DATE: **03/11/2024**
 PROJECT #: **1250-01-3647**
 TITLE: **LANDSCAPE DETAILS**

SHEET #:

LP-503



2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com

Mountain Recreation Eagle Pool

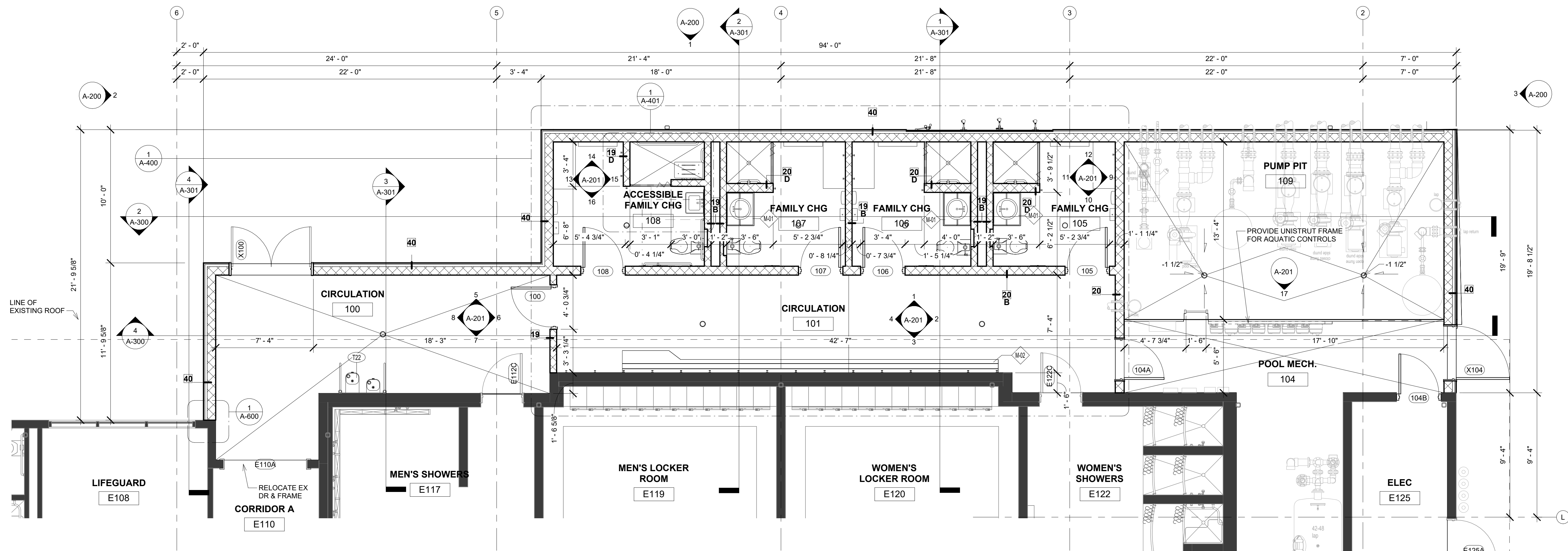
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
1 3/22/2024 SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR PLAN

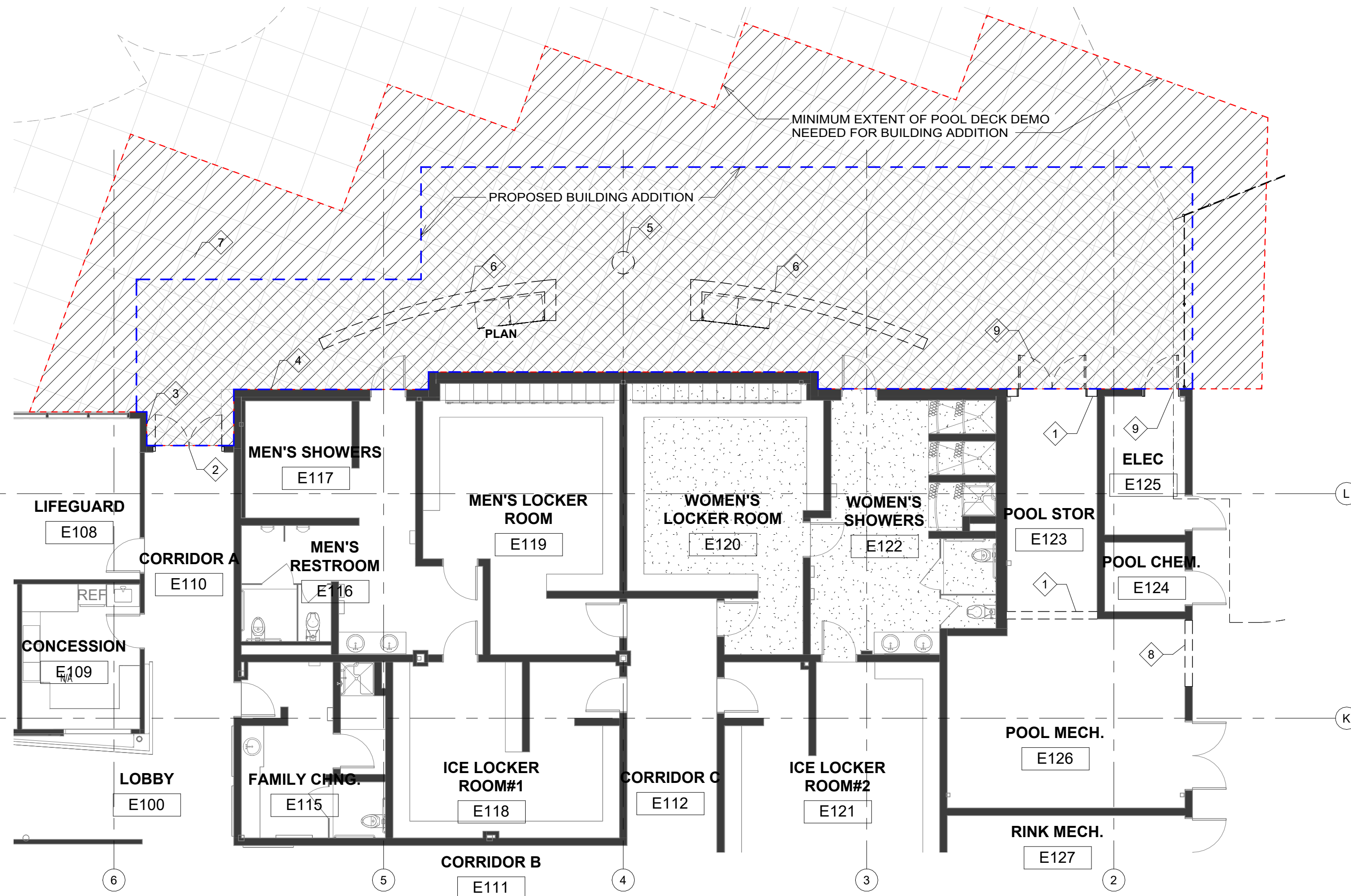
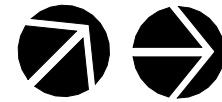
SHEET #:

A-101



1 FIRST FLOOR PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet



2 DEMOLITION FIRST FLOOR PLAN
1/8" = 1'-0"

Graphic Scale: 1 inch = 8 feet



DEMOLITION KEYNOTES

- 1 REMOVE EXISTING WALL, PATCH AND REPAIR AS NEEDED TO MATCH EXISTING FINISHES.
- 2 RELOCATE EXIST DOOR & FRAME.
- 3 REMOVE EX FIBER CEM SIDING PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.
- 4 REMOVE EX METAL PANELS PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.
- 5 REMOVE EX WOOD POST.
- 6 REMOVE EX RADIUS WALL, FOUNDATION & FOOTINGS.
- 7 REMOVE EX CONC POOL DECK.
- 8 PARTIAL DEMO OF WALL TO PROVIDE DOOR OPENING TO RECEIVE NEW DOOR AND LINTEL AND LINTEL FOR NEW DOOR, PATCH AND REPAIR DOOR AND FLOOR AS NEEDED TO MATCH EXISTING FINISH.
- 9 REMOVE EXISTIN DOOR.
- 10 REMOVE EXISTING WALL, PATCH AND REPAIR AS NEEDED TO RECEIVE NEW FINISHES.



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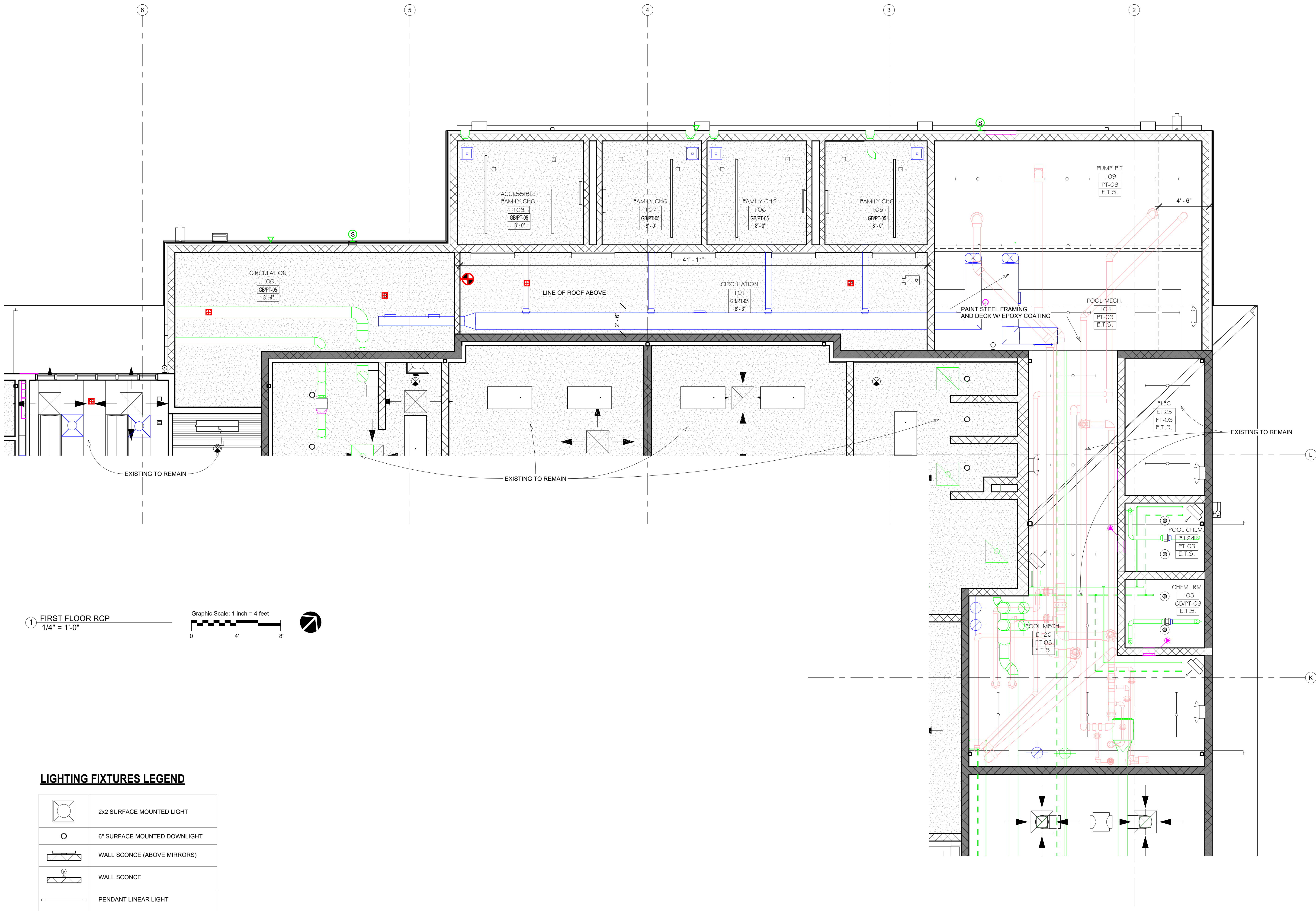
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR CEILING PLAN

SHEET #:

A-102



LIGHTING FIXTURES LEGEND

	2x2 SURFACE MOUNTED LIGHT
	6" SURFACE MOUNTED DOWNLIGHT
	WALL SCONCE (ABOVE MIRRORS)
	WALL SCONCE
	PENDANT LINEAR LIGHT

REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DESIGN

Autodesk Docs//23079_Eagle Pool_R24/23079_Mountain Recreation Eagle Pool_R24.rvt

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3/21/2024 2:00:34 PM



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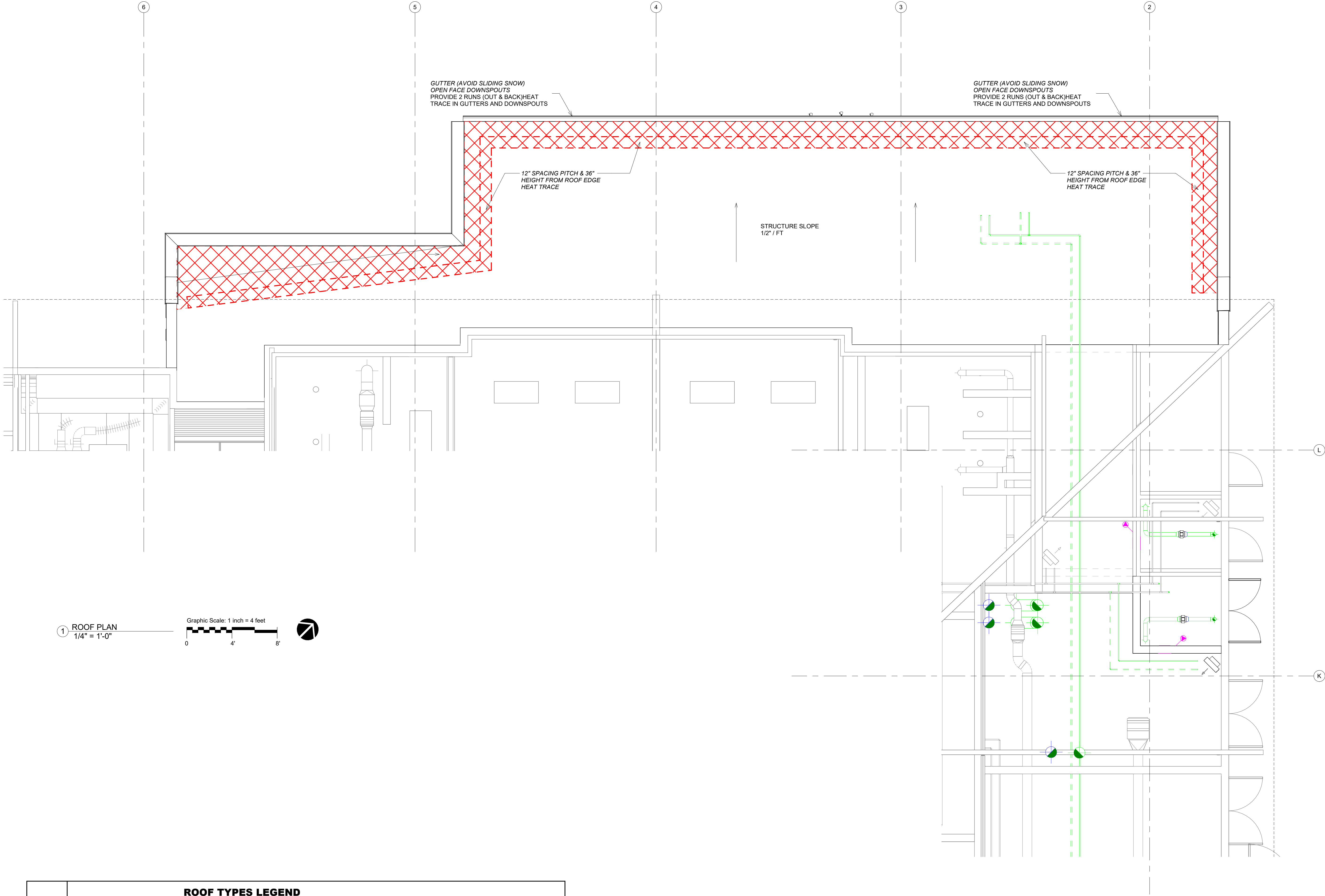
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
1 3/22/2024 SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: ROOF PLAN

SHEET #:

A-103

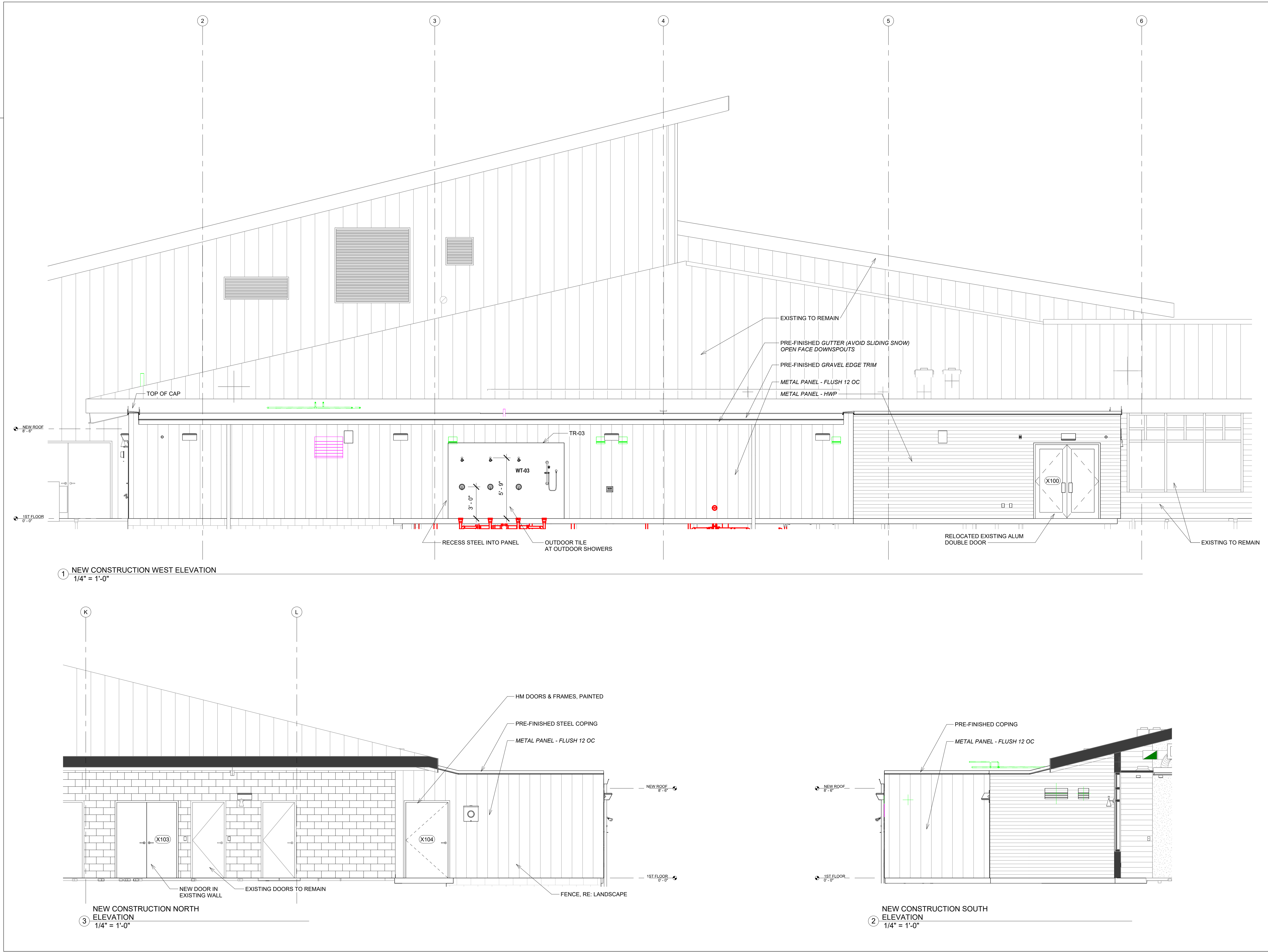


1 ROOF PLAN
1/4" = 1'-0"

Graphic Scale: 1 inch = 4 feet
0 4' 8'



ROOF TYPES LEGEND			
RF-1			90 MIL REINFORCED PVC ROOF MEMBRANE 1/2" ROOF PROTECTION BOARD 6" RIGID INSUL (STAGGER SEAMS) LTTR=30 min 10 MIL VAPOR BARRIER 1/2" ROOF UNDERLAYMENT



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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: EXTERIOR ELEVATIONS

SHEET #:
A-200

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

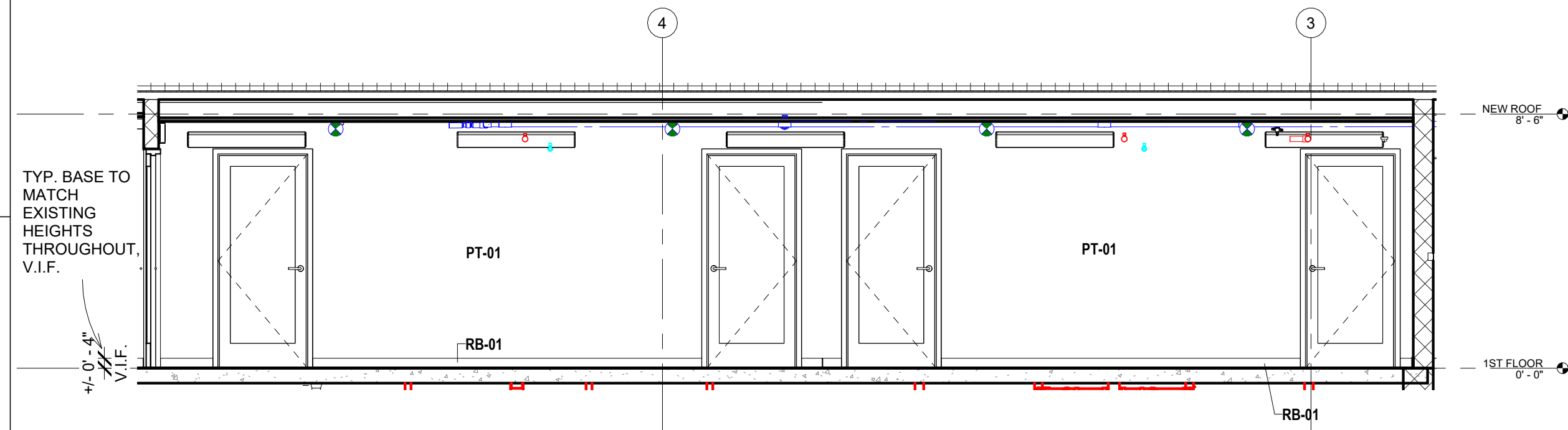
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1 3/22/2024 SITE PLAN 02

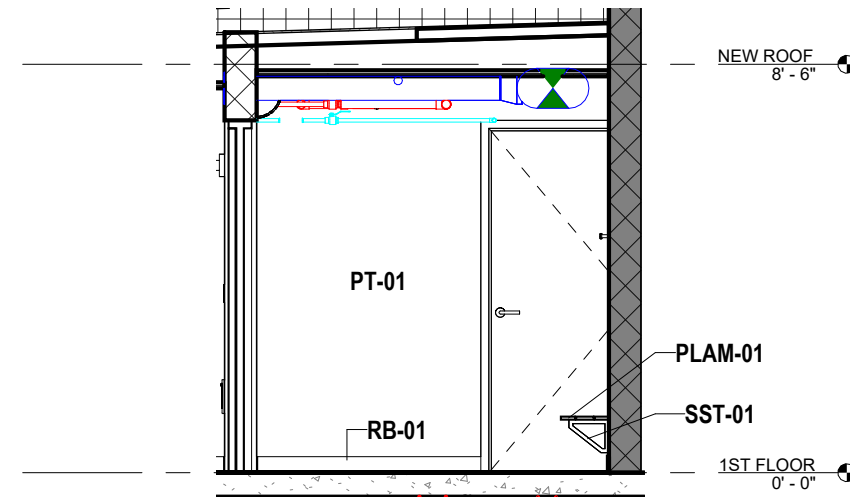
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ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: INTERIOR ELEVATIONS

SHEET #:

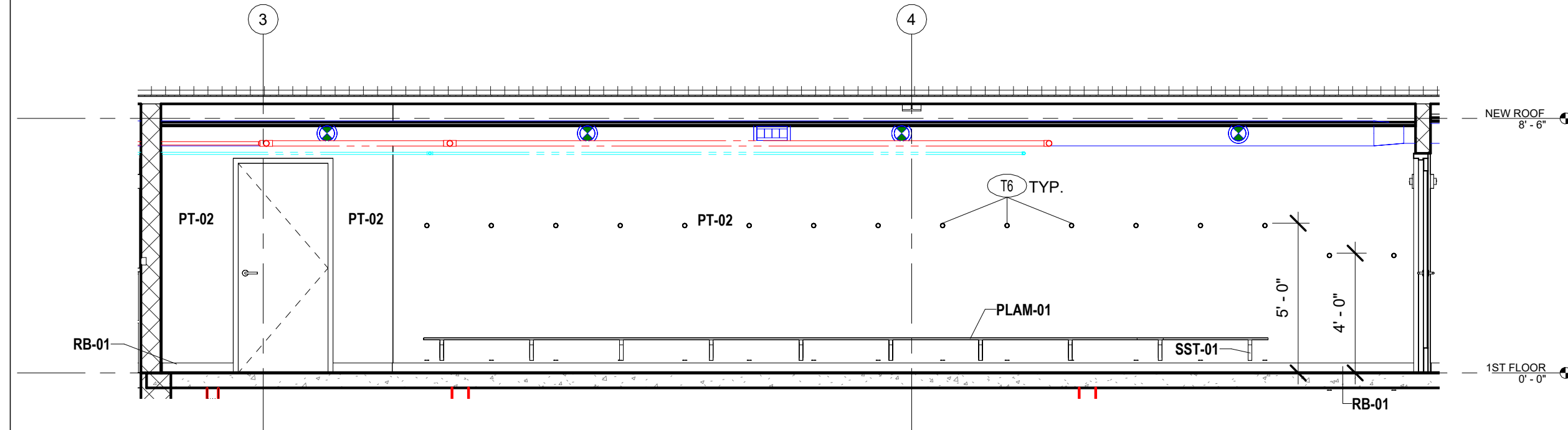
A-201



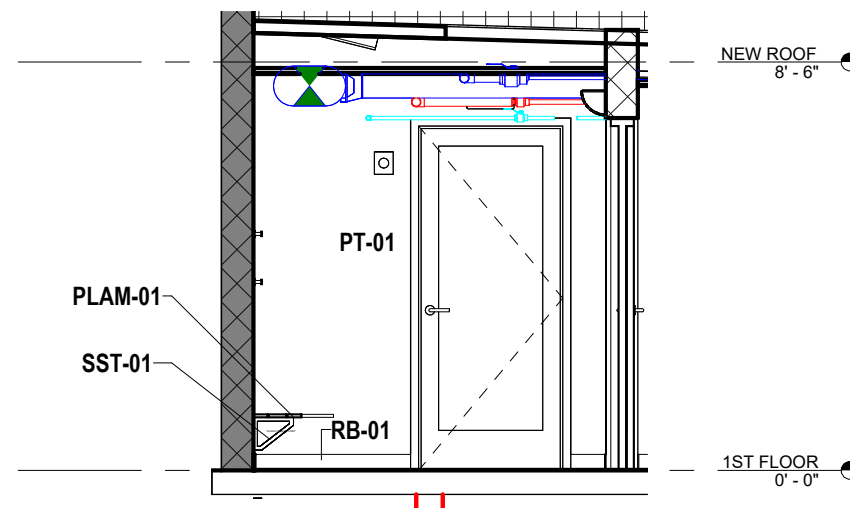
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1/4" = 1'-0"



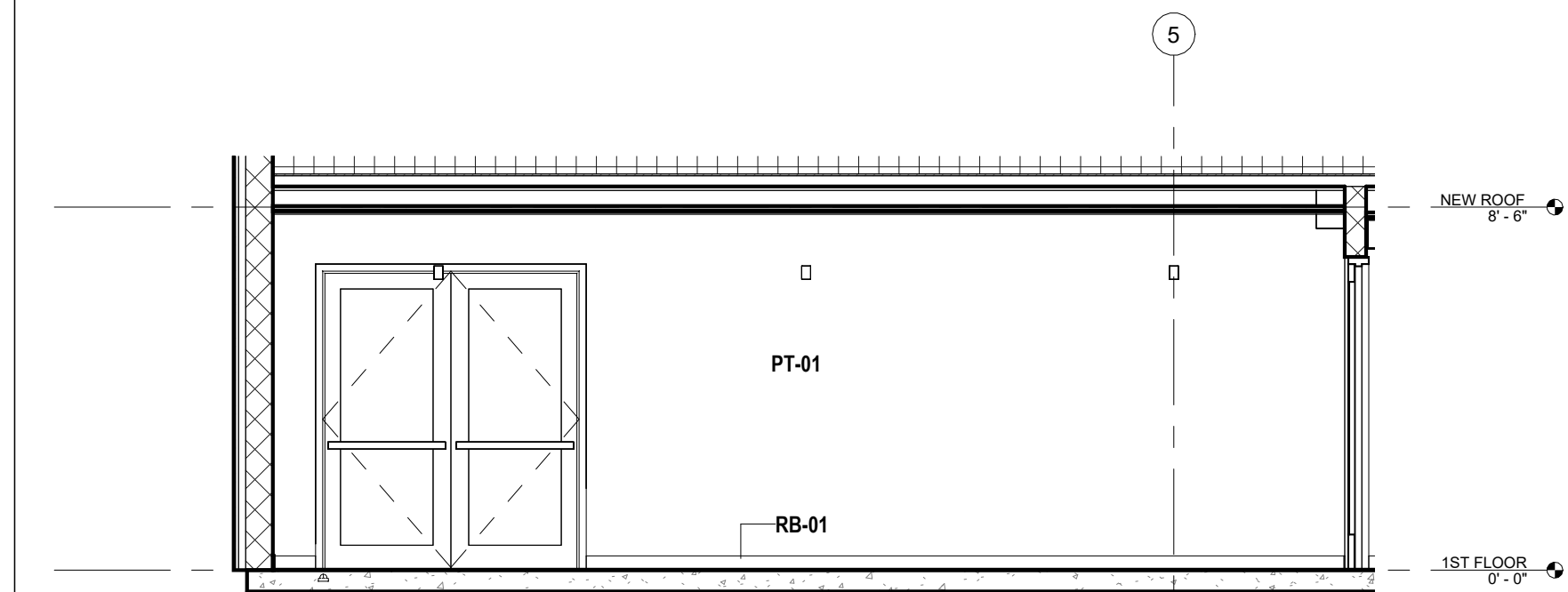
2 CIRCULATION-101 EAST ELEV.
1/4" = 1'-0"



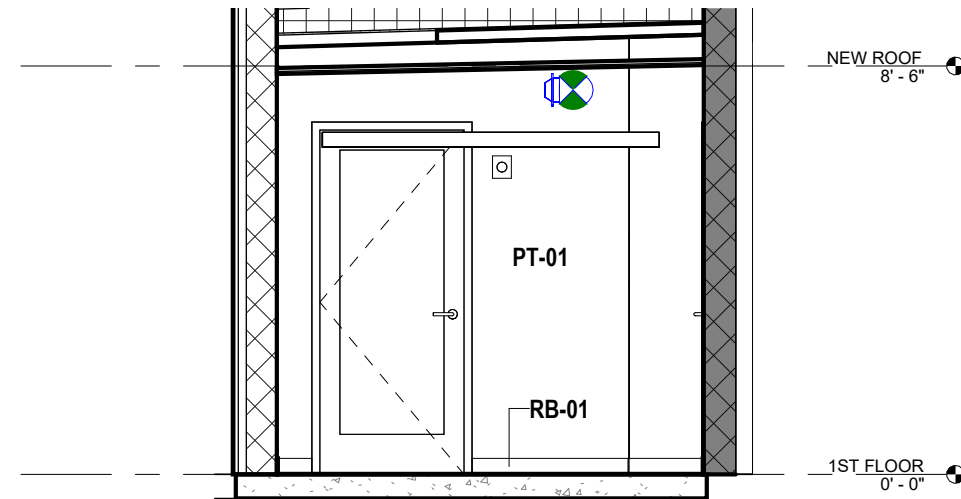
3 CIRCULATION-101 SOUTH ELEV.
1/4" = 1'-0"



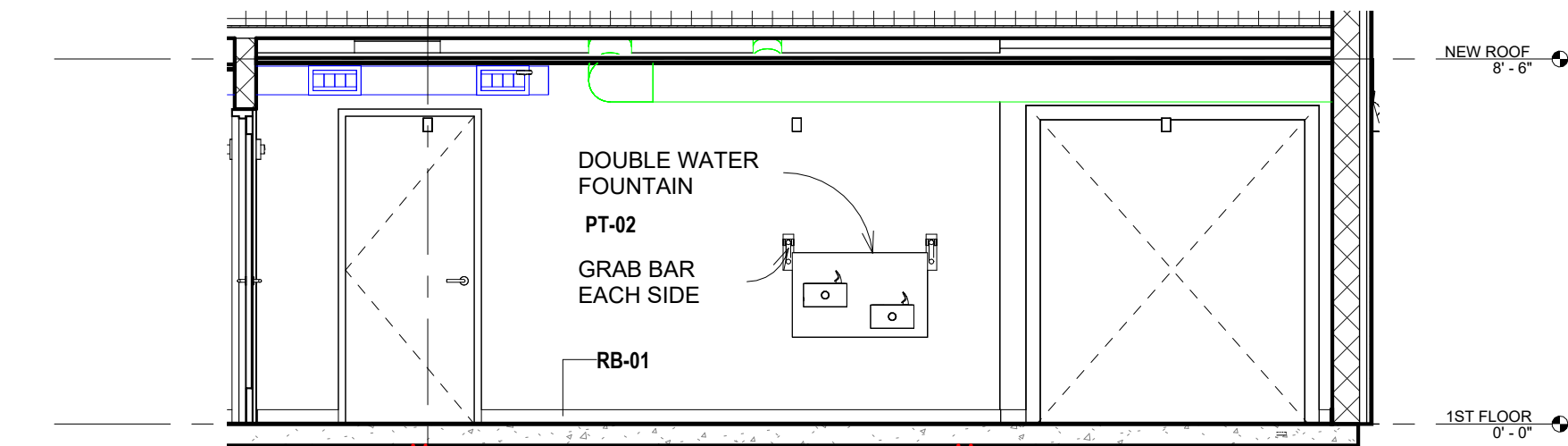
4 CIRCULATION-101 WEST ELEV.
1/4" = 1'-0"



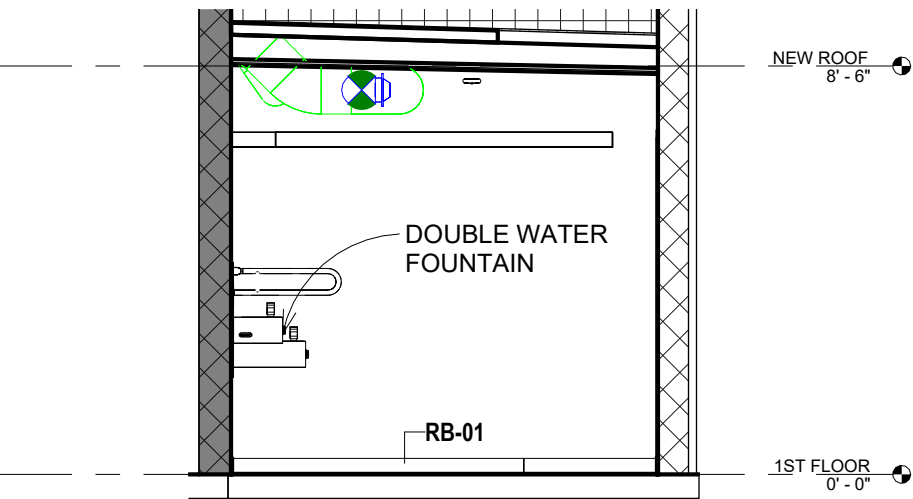
5 CIRCULATION-100 NORTH ELEV.
1/4" = 1'-0"



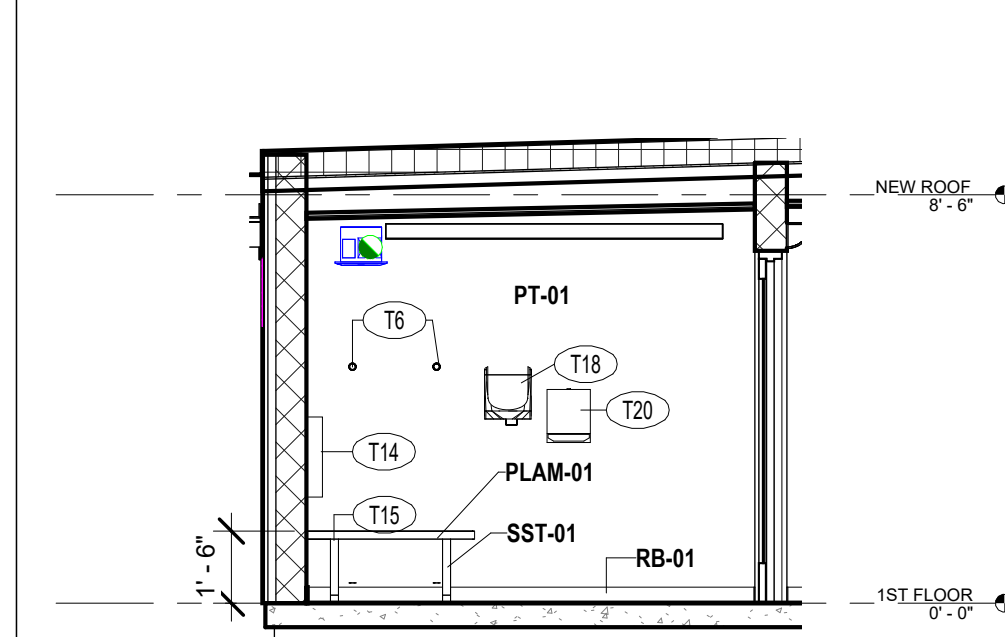
6 CIRCULATION-100 EAST ELEV.
1/4" = 1'-0"



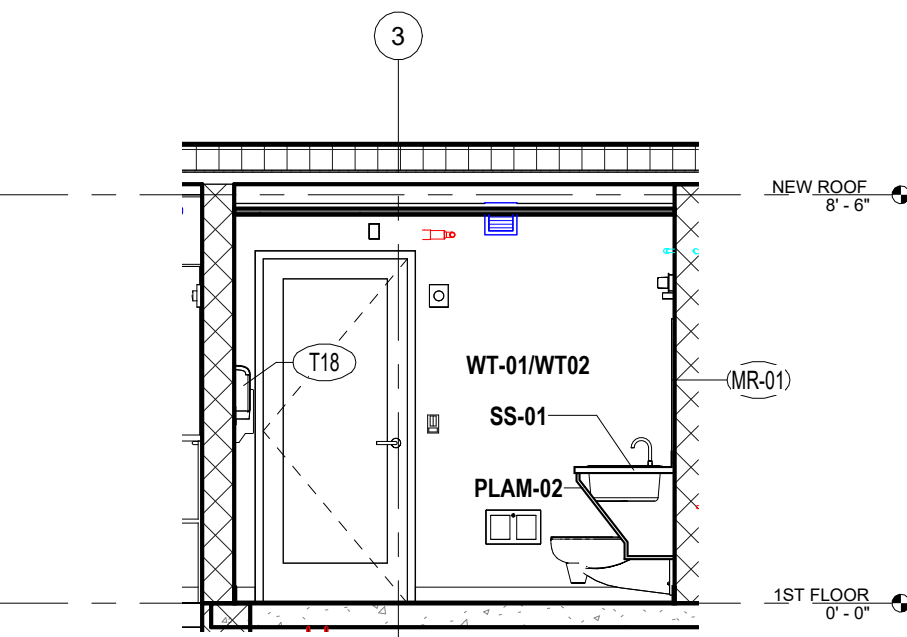
7 CIRCULATION-100 SOUTH ELEV.
1/4" = 1'-0"



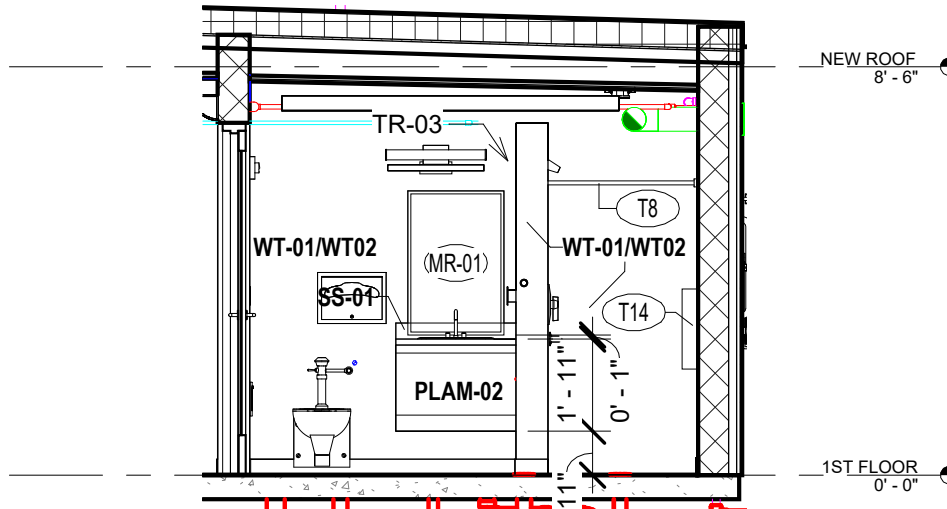
8 CIRCULATION-100 WEST ELEV.
1/4" = 1'-0"



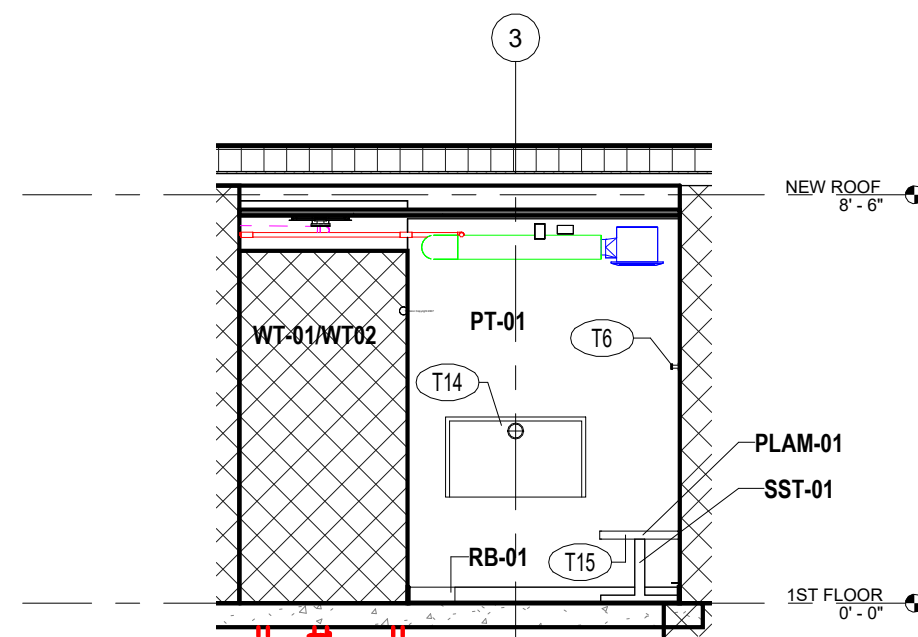
9 TYP. FAMILY CHG. EAST ELEV.
1/4" = 1'-0"



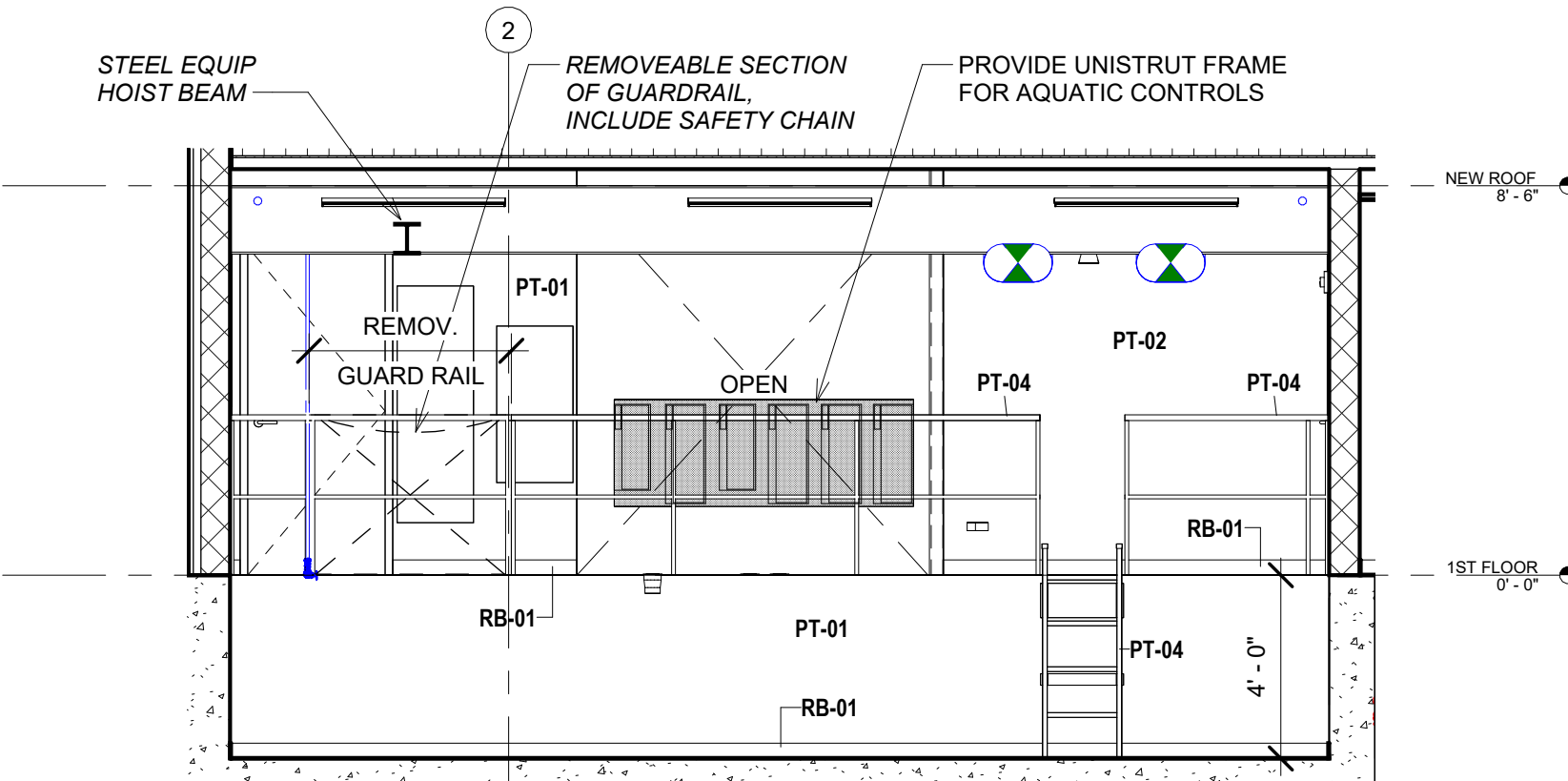
10 TYP. FAMILY CHG. SOUTH ELEV.
1/4" = 1'-0"



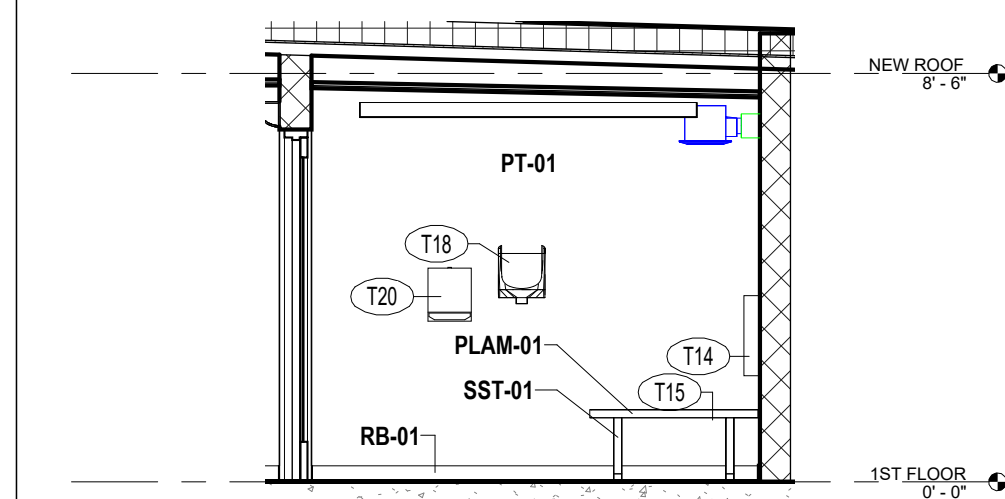
11 TYP. FAMILY CHG. WEST ELEV.
1/4" = 1'-0"



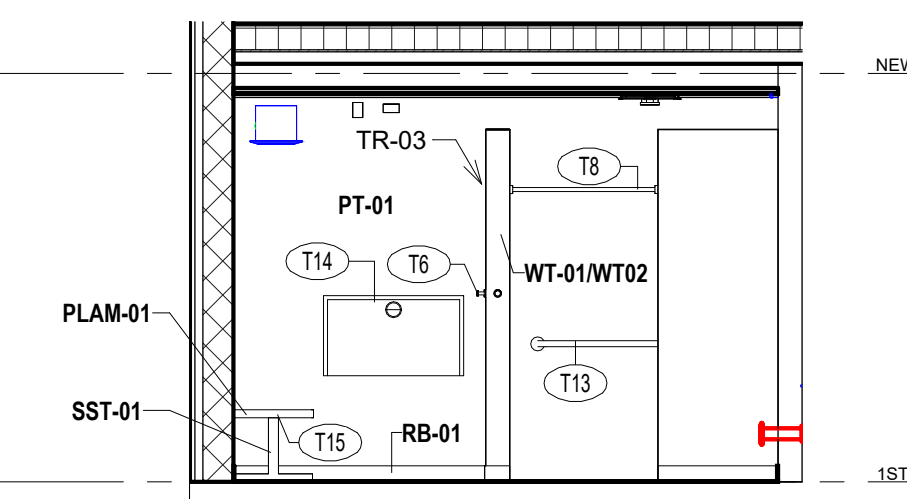
12 TYP. FAMILY CHG. NORTH ELEV.
1/4" = 1'-0"



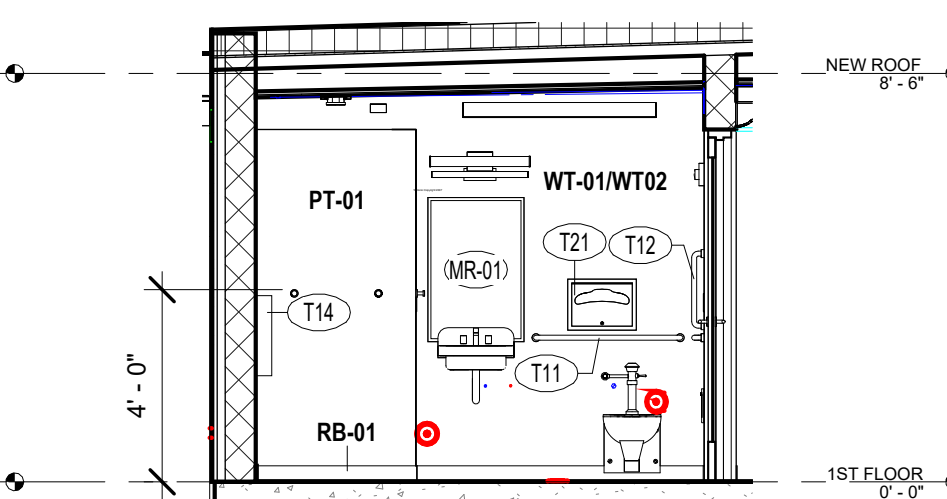
17 PUMP PIT-109 SOUTH ELEV.
1/4" = 1'-0"



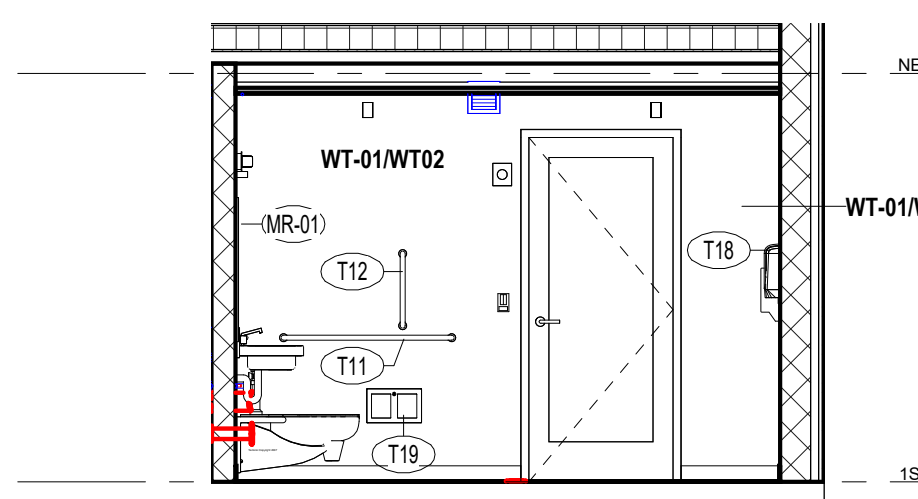
13 ADA FAMILY CH.-108 WEST ELEV.
1/4" = 1'-0"



14 ADA FAMILY CH.-108 NORTH ELEV.
1/4" = 1'-0"



15 ADA FAMILY CH.-108 EAST ELEV.
1/4" = 1'-0"



16 ADA FAMILY CH.-108 SOUTH ELEV.
1/4" = 1'-0"



2000 LAWRENCE ST
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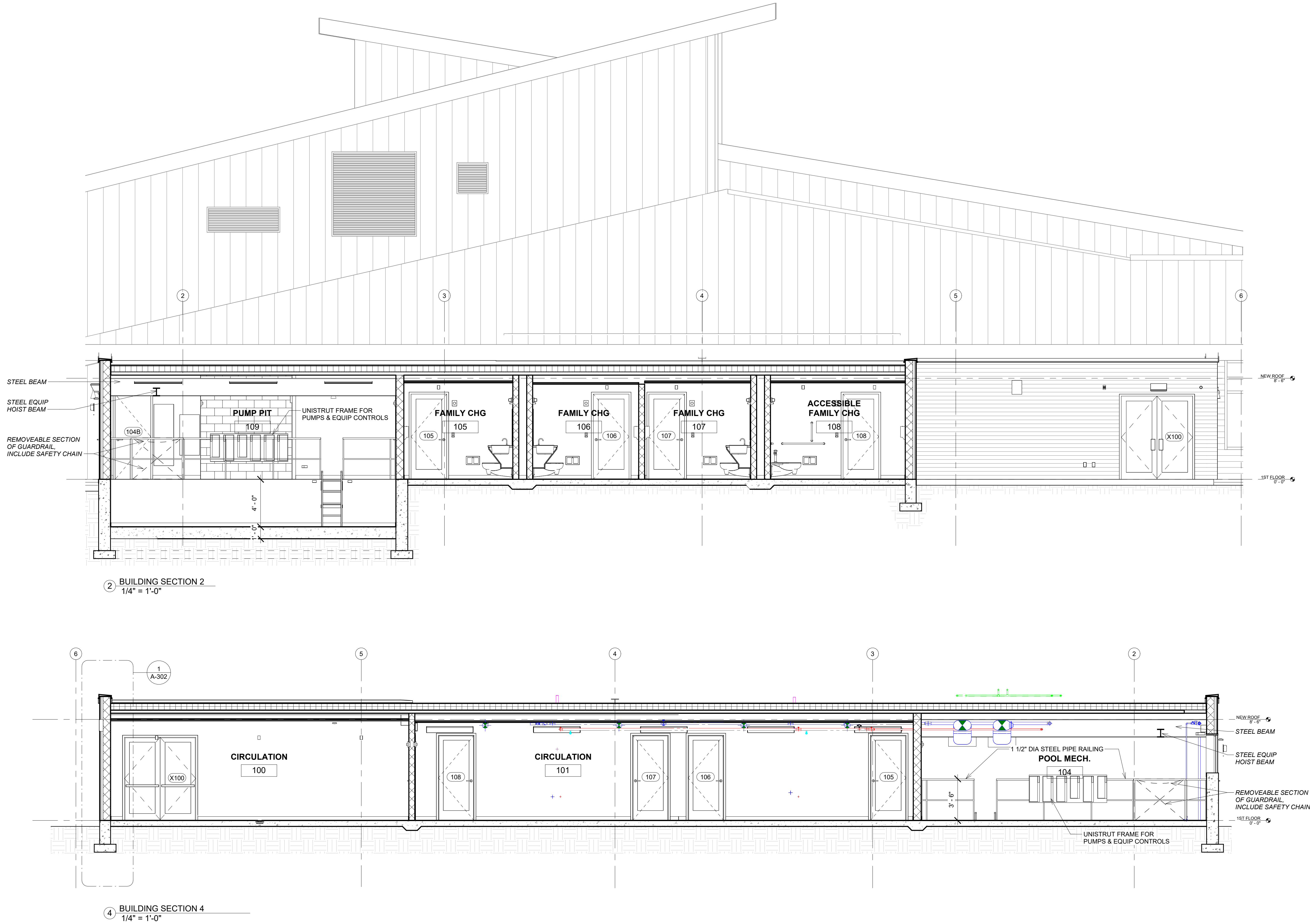
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

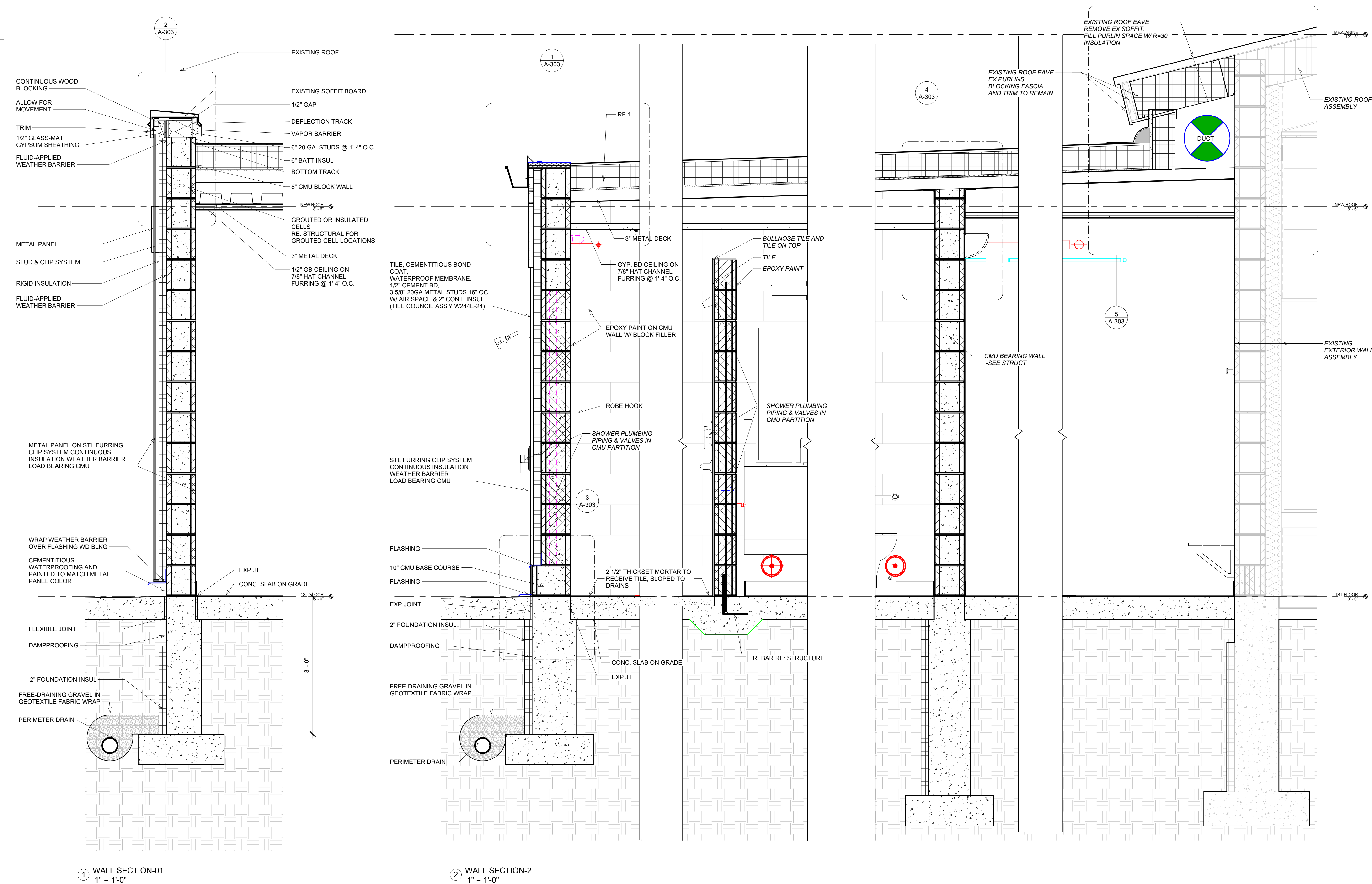
NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: BUILDING SECTIONS

SHEET #:

A-300





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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: WALL SECTIONS

SHEET #:

A-302



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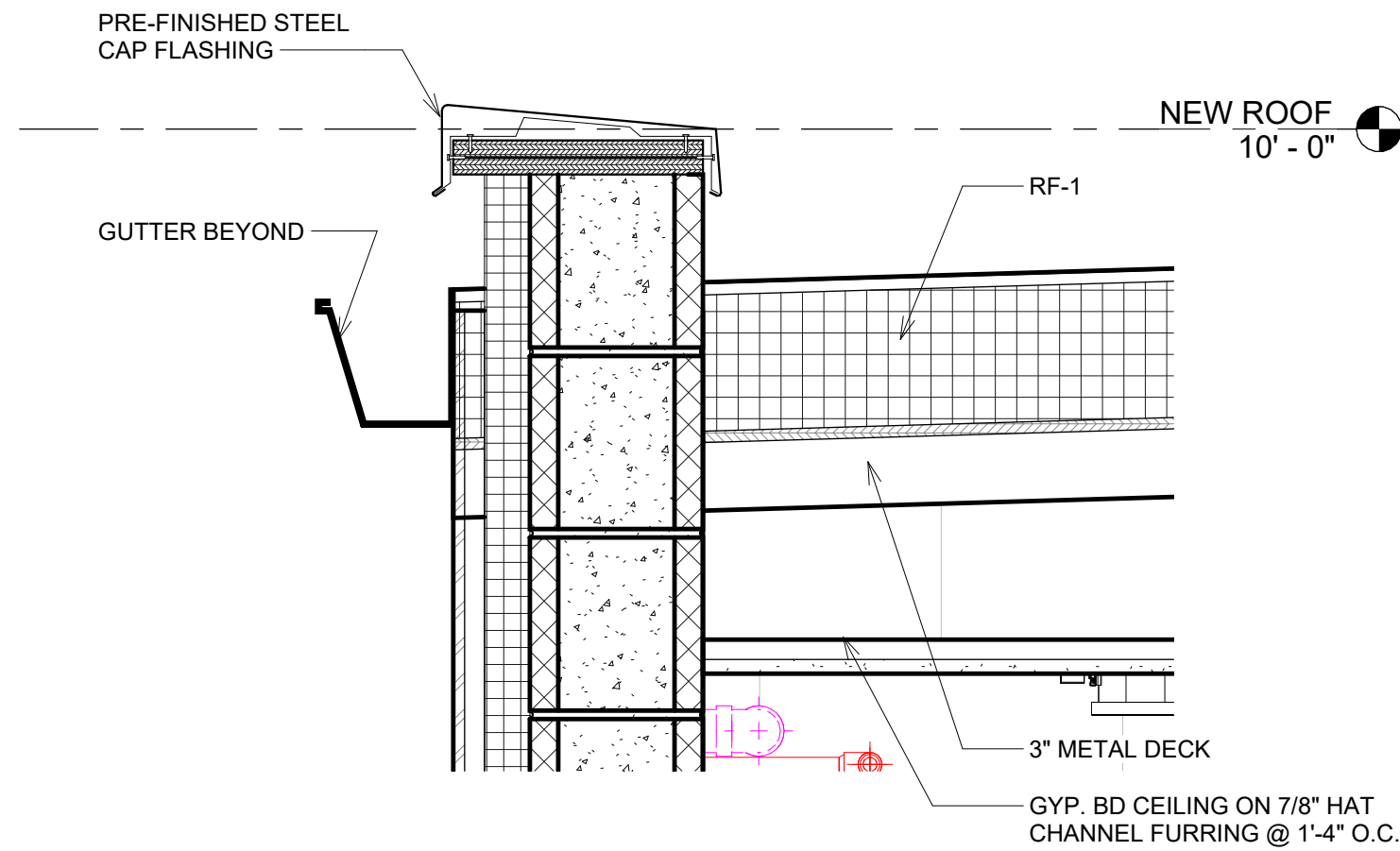
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

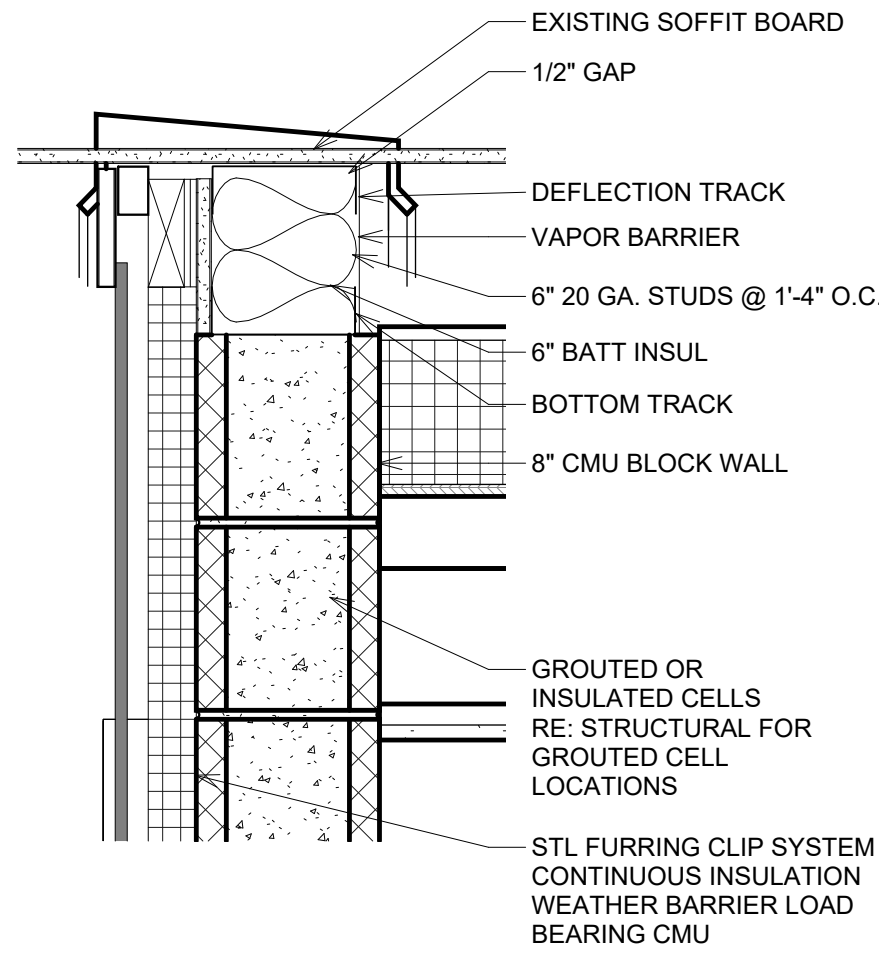
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ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: DETAILS

SHEET #:

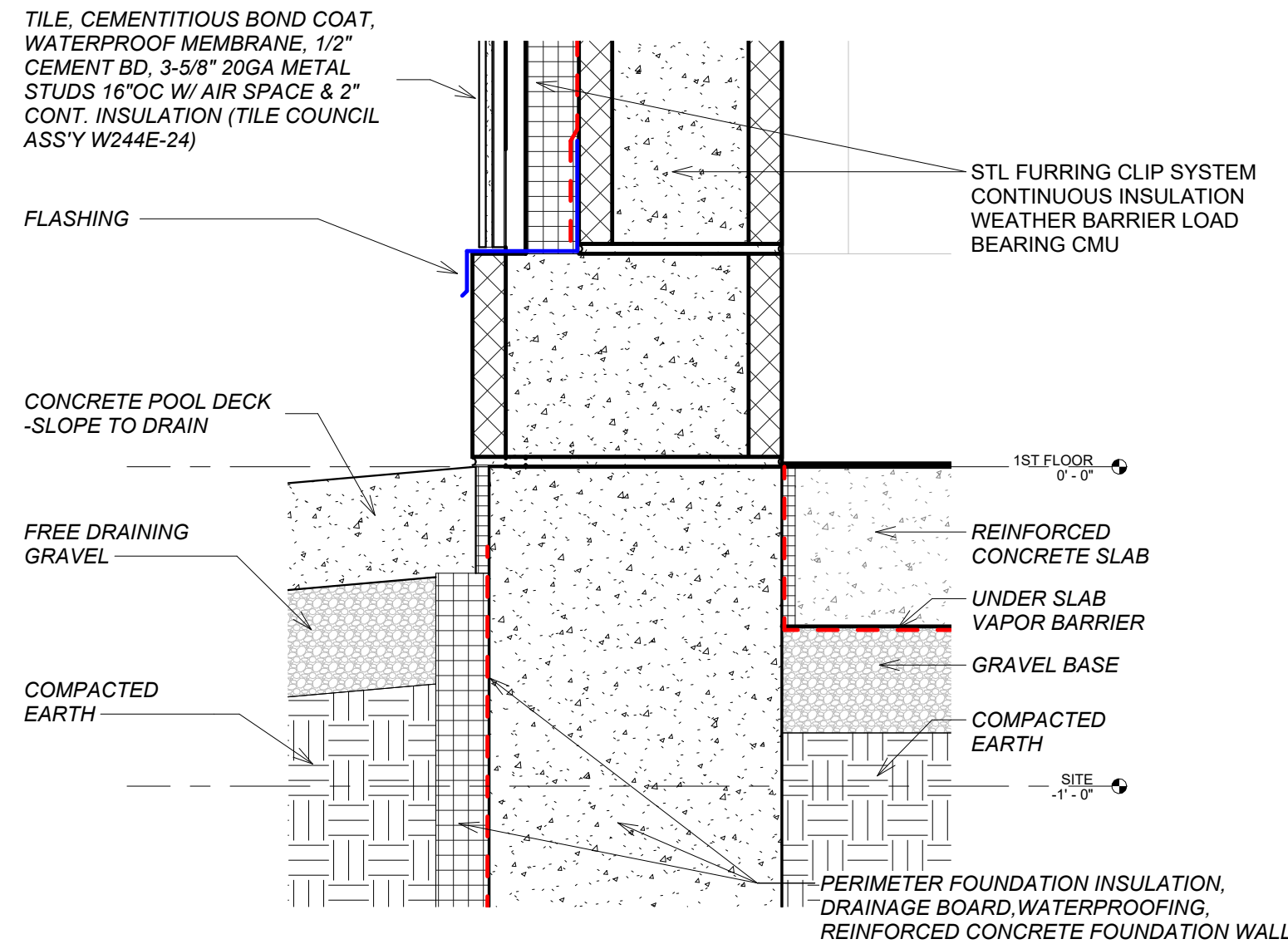
A-303



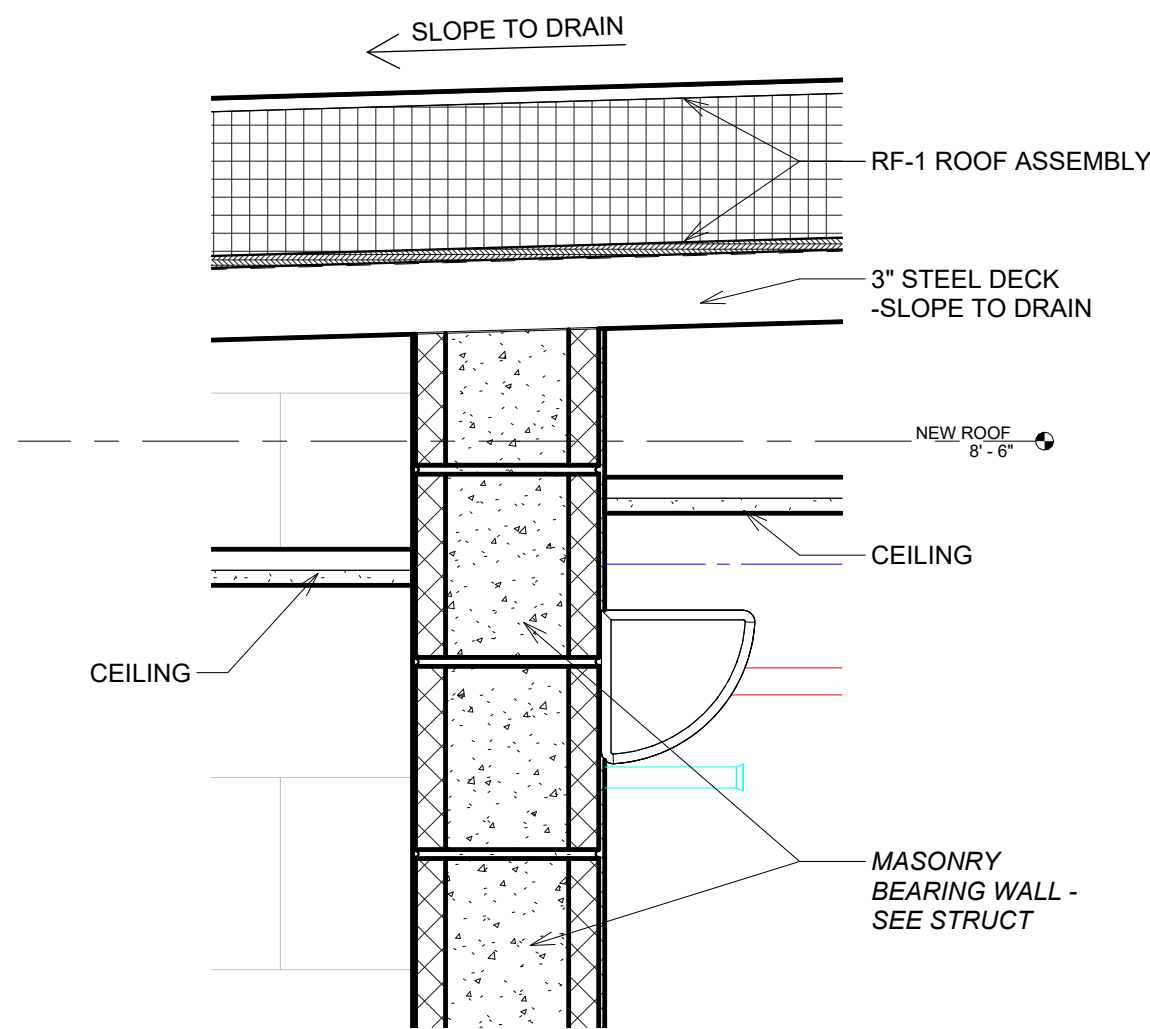
1 WALL SECTION-01 - Callout 1
1 1/2" = 1'-0"



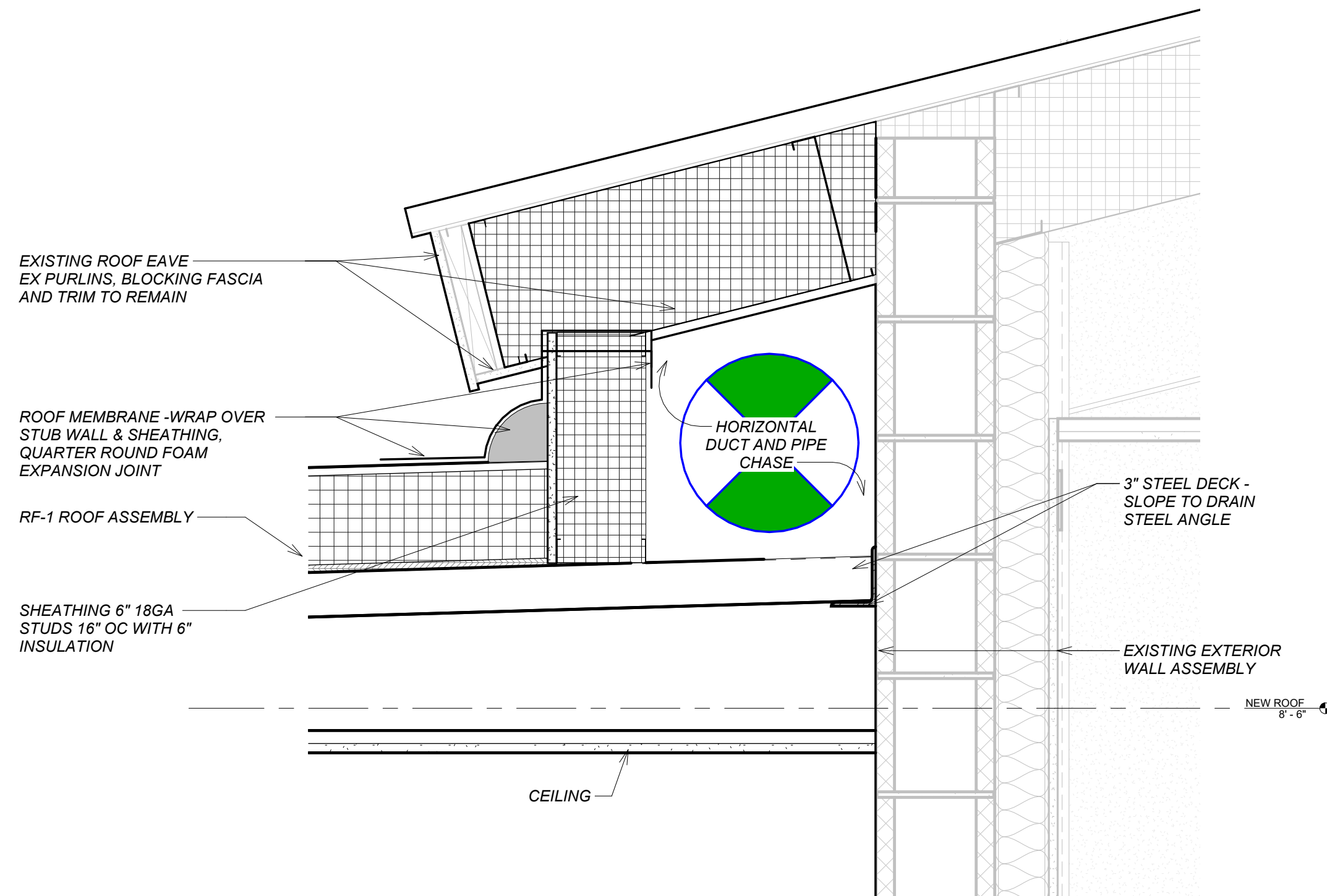
2 WALL SECTION-02 - Callout 2
1 1/2" = 1'-0"



3 WALL SECTION-2 - Callout 3
1 : 6



4 WALL SECTION-2 - Callout 4
1 1/2" = 1'-0"



5 WALL SECTION-01 - Callout 5
1 1/2" = 1'-0"



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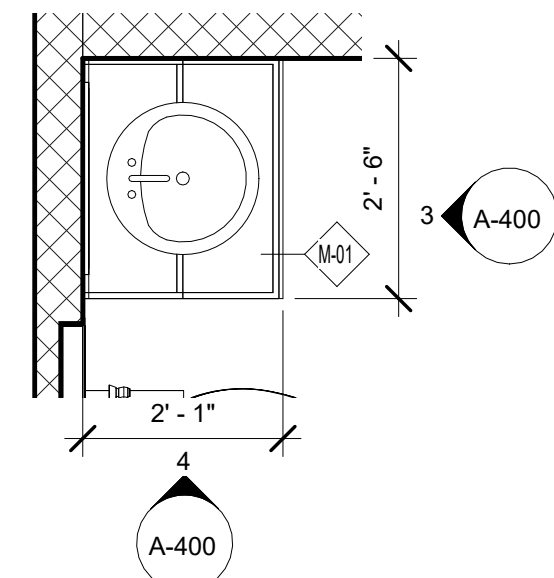
NO. DATE: TITLE/PURPOSE:

1 3/22/2024 SITE PLAN 02

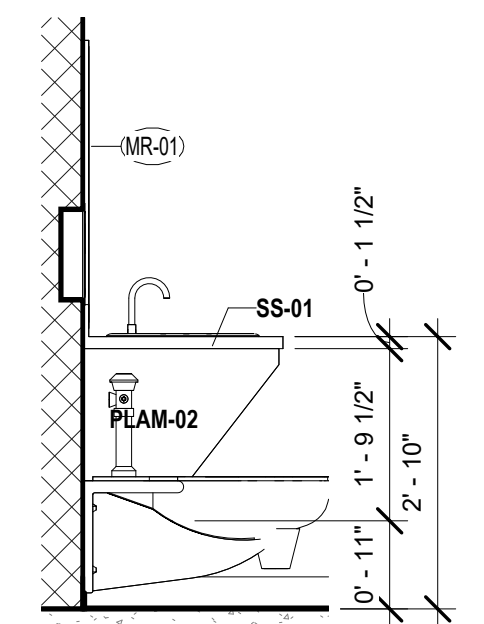
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ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: ENLARGED WET AREA

SHEET #:

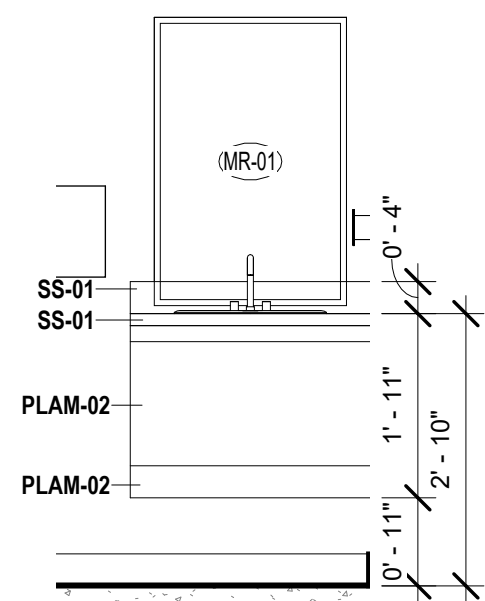
A-400



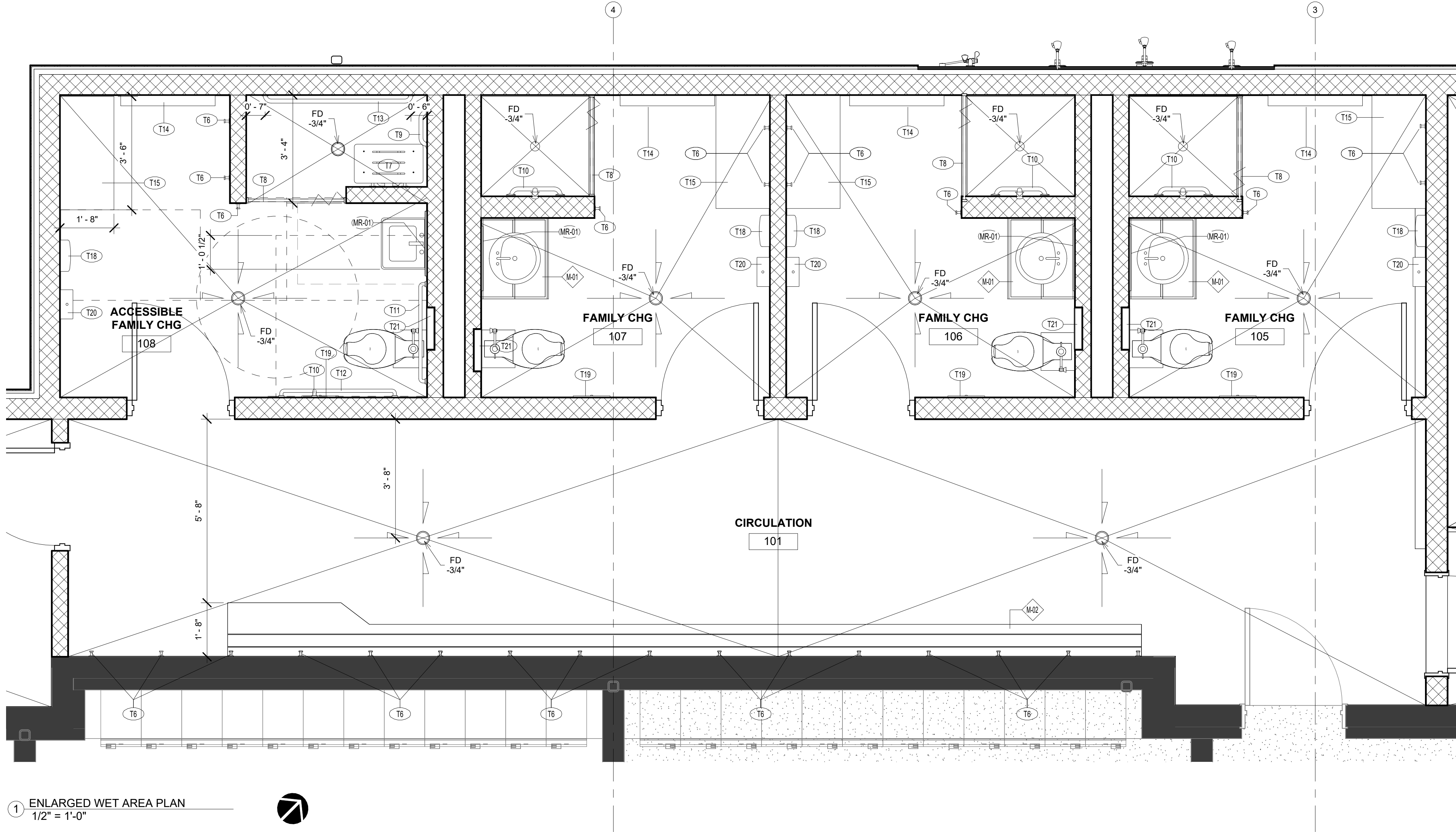
2 FAMILY CHG. VANITY M-01 PLAN
1/2" = 1'-0"



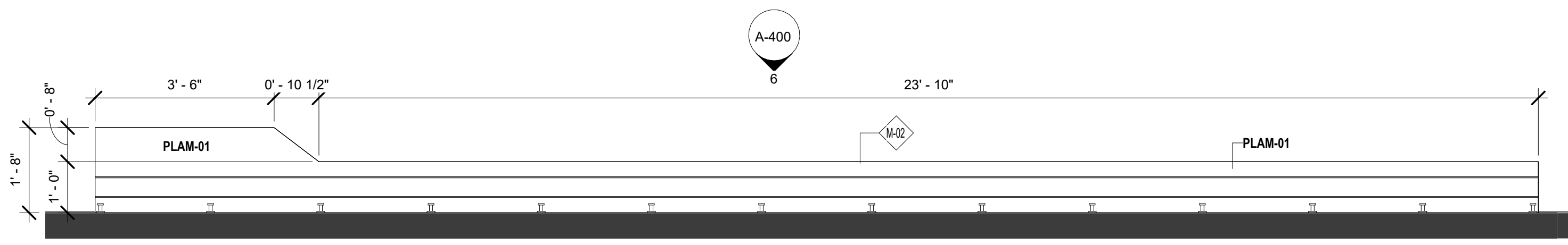
4 M-01 ELEV.-02
1/2" = 1'-0"



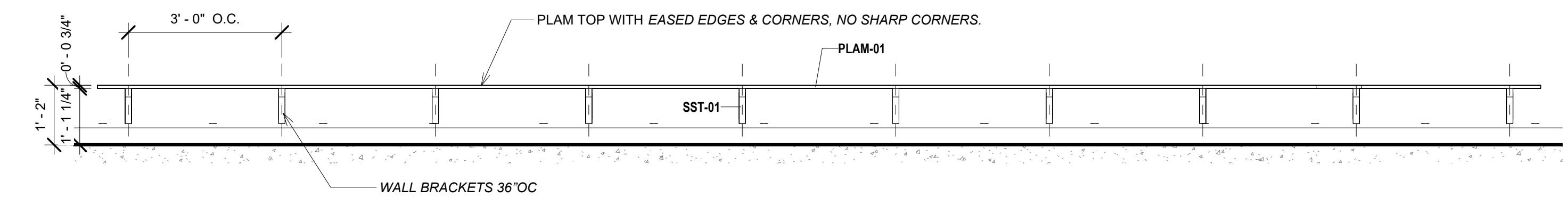
3 M-01 ELEV.-01
1/2" = 1'-0"



1 ENLARGED WET AREA PLAN
1/2" = 1'-0"



5 CIRCULATION-101 BENCH M-02 PLAN
1/2" = 1'-0"



6 M-02 ELEV.
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	Manufacturer	Model	Type Comments
T6	COAT HOOK SET OF 2	BOBRICK	B-76727	CONTRACTOR SUPPLIED/ INSTALLED
T7	SOLID PHENOLIC FOLDING SHOWER SEAT	BOBRICK	B-5193	CONTRACTOR SUPPLIED/ INSTALLED
T8	HEAVY DUTY SHOWER CURTAIN ROD W/ CONCEALED MOUNTING & STAINLESS STEEL SHOWER CURTAIN HOOKS	BOBRICK	B-207 & 204-1	CONTRACTOR SUPPLIED/ INSTALLED. REFER TO FINISH SCHEDULE C-01.
T9	1 1/4" DIA STAINLESS STEEL GRAB BAR 12" LONG	BOBRICK	B-5806 x 12	CONTRACTOR SUPPLIED/ INSTALLED
T10	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 18" LONG	BOBRICK	B-5806 x 18	CONTRACTOR SUPPLIED/ INSTALLED
T11	1 1/4" DIA HORIZONTAL STAINLESS STEEL GRAB BAR 36" LONG	BOBRICK	B-5806 x 36	CONTRACTOR SUPPLIED/ INSTALLED
T12	1 1/4" DIA VERTICAL STAINLESS STEEL GRAB BAR 42" LONG	BOBRICK	B-5806 x 42	CONTRACTOR SUPPLIED/ INSTALLED
T13	1 1/4" DIA VERTICAL STAINLESS STEEL GRAB BAR 54" LONG	BOBRICK	B-5806 x 54	CONTRACTOR SUPPLIED/ INSTALLED
T14	WALL MOUNTED BABY CHANGING STATION	KOALA	KB300-SS-05	CONTRACTOR SUPPLIED/ INSTALLED
T15	PHENOLIC BENCH - ACCESSIBLE	VERSABLE	101-DB-4220-PWS	REFER TO FINISH SCHEDULE PLAM-01.
T18	ELECTRIC HAND DRYER	Worl Dryer	Q-972A2	
T19	MULTI-ROLL TOILET TISSUE DISPENSER, TrimLineSeries™ SURFACE- MOUNTED	BOBRICK	B-3588	CONTRACTOR SUPPLIED/ INSTALLED
T20	Surface Mounted Paper Towel Dispenser	BOBRICK	B-4262	Satin Finish
T21	SEAT COVER DISPENSER	BOBRICK	B-301	CONTRACTOR SUPPLIED/ INSTALLED
T22	Water Cooler	Elkay Manufacturing	LZWS-EDFP217K	

MIRROR SCHEDULE			
TYPE	WIDTH	HEIGHT	COMMENT
MR-01	24"	36"	Bobrick B-165 2436 Channel Frame Mirror 24" x 36"



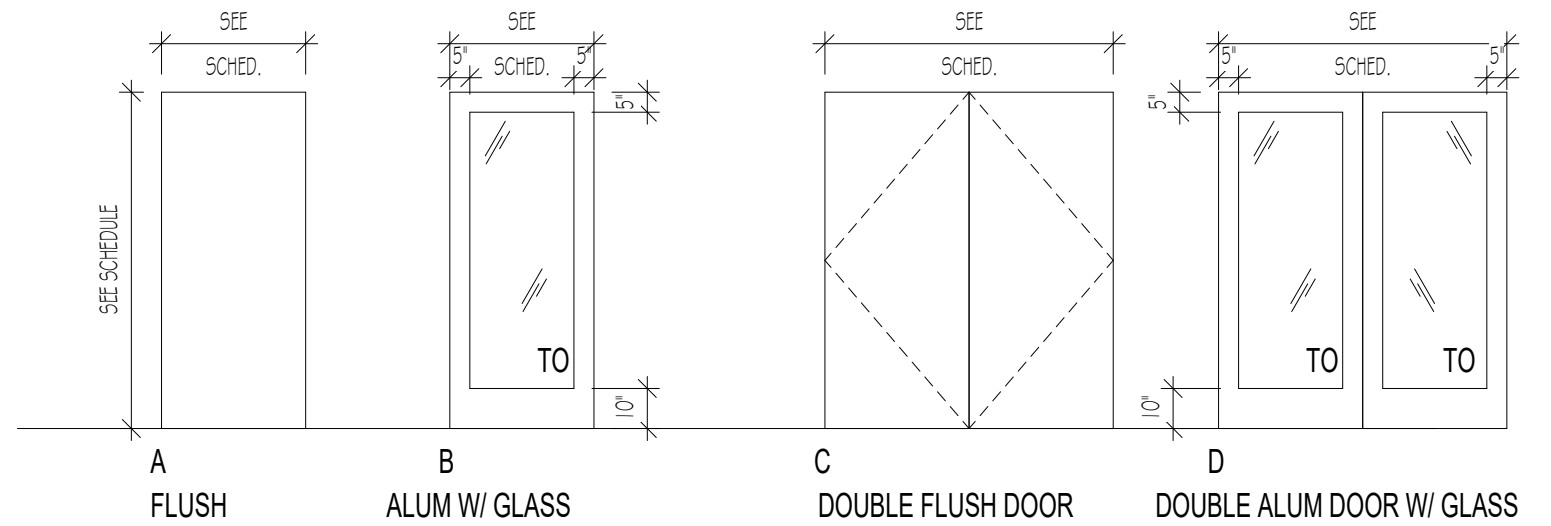
NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/2" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: ENLARGED WET AREA

SHEET #:

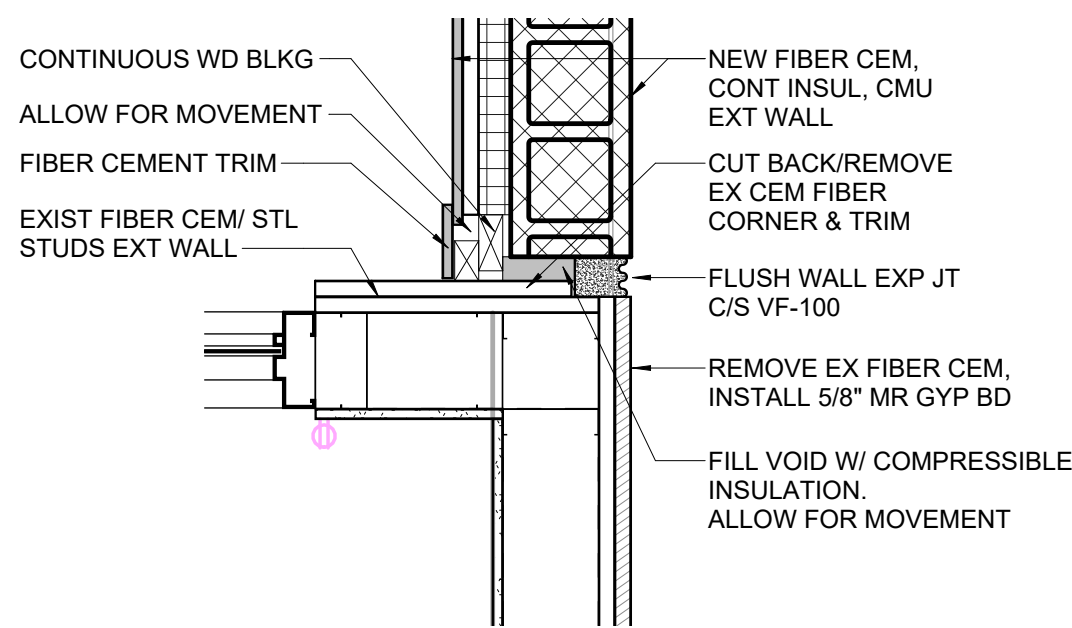
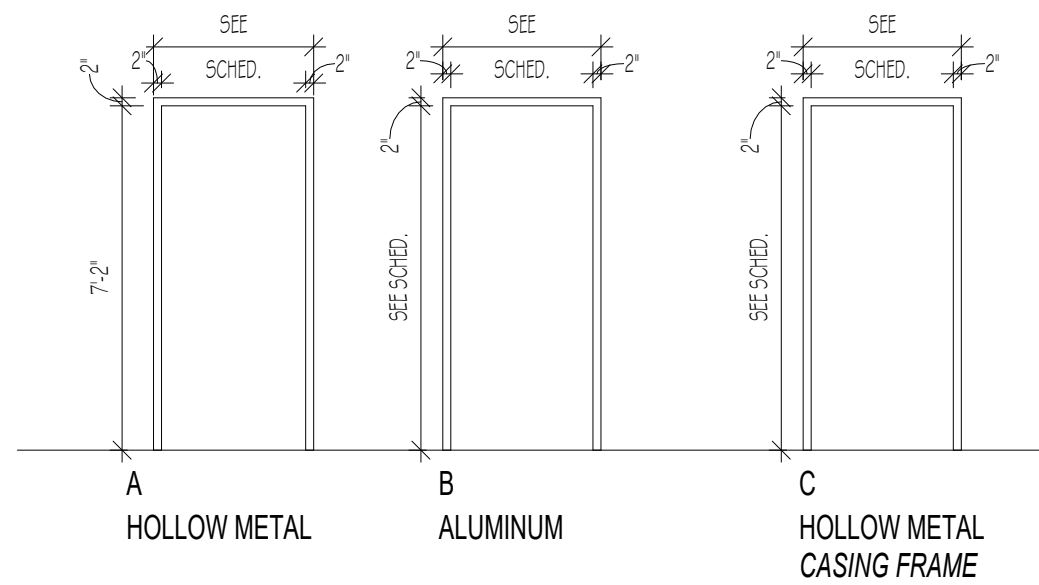
A-401

DOOR SCHEDULE												
Door No.	DOOR						FRAME			H.W. GROUP		REMARKS
	MAT.	TYPE	FINISH	THK.	WD.	HGT.	MAT.	TYPE	FINISH			
100	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	2		
104A	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	4		
104B	HM	A	PT COLOR	1 3/4"	3'-0"	7'-2"	HM	A	PT COLOR	5	3/4 HOUR DOOR	
105	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	3		
106	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	3		
107	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	3		
108	AL	B	FF(DK)	1 3/4"	3'-0"	7'-2"	AL	B	FF(DK)	3		
E110A	N/A	N/A	N/A		6'-4"	7'-2"	HM	A	PT COLOR	N/A	CASING FRAME	
X100	AL	D	FF(DK)	1 1/2"	6'-4"	7'-2"	AL	B	FF(DK)	1	EXISTING RELOCATED DOOR	
X103	HM	C	PT COLOR	1 3/4"	9'-8"	7'-2"	HM	A	PT COLOR	6		
X104	HM	A	PT COLOR	1 3/4"	4'-0"	7'-2"	HM	A	PT COLOR	7		

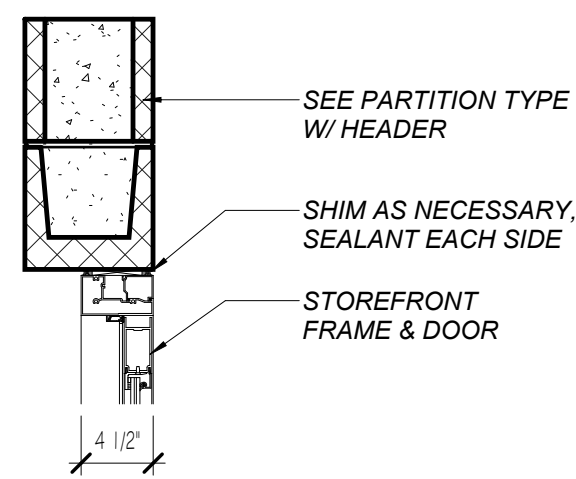


TO = TEMPERED, OPAQUE GLASS
LAMINATED -ALT

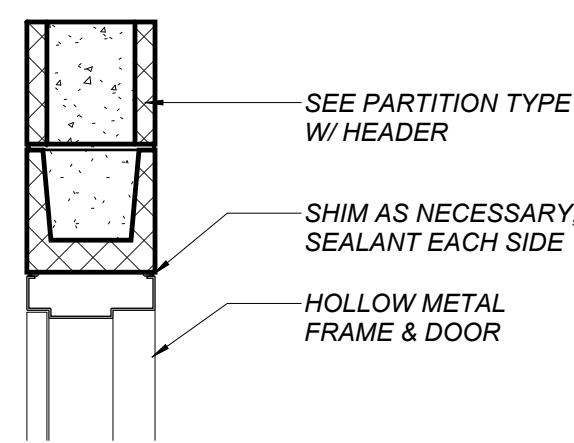
TO = TEMPERED, CLEAR GLASS



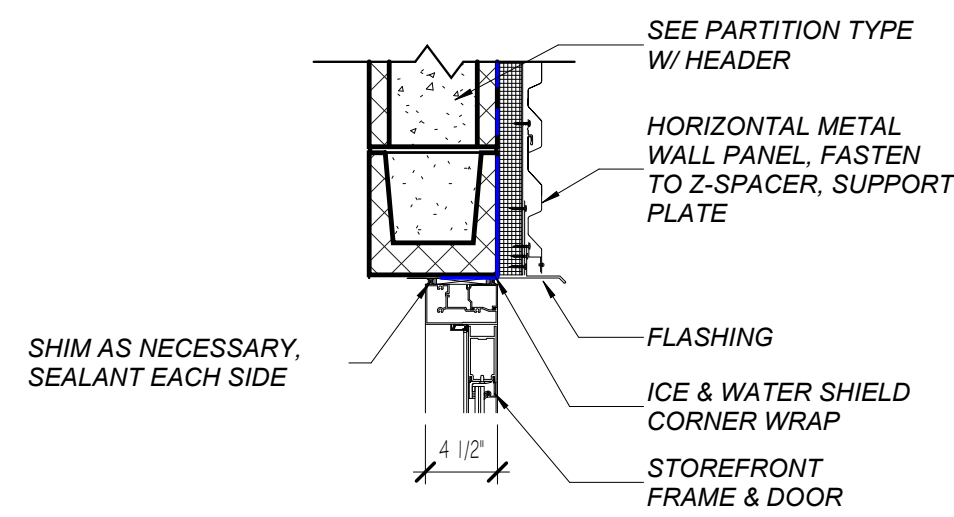
1 PLAN DETAIL 1
1" = 1'-0"



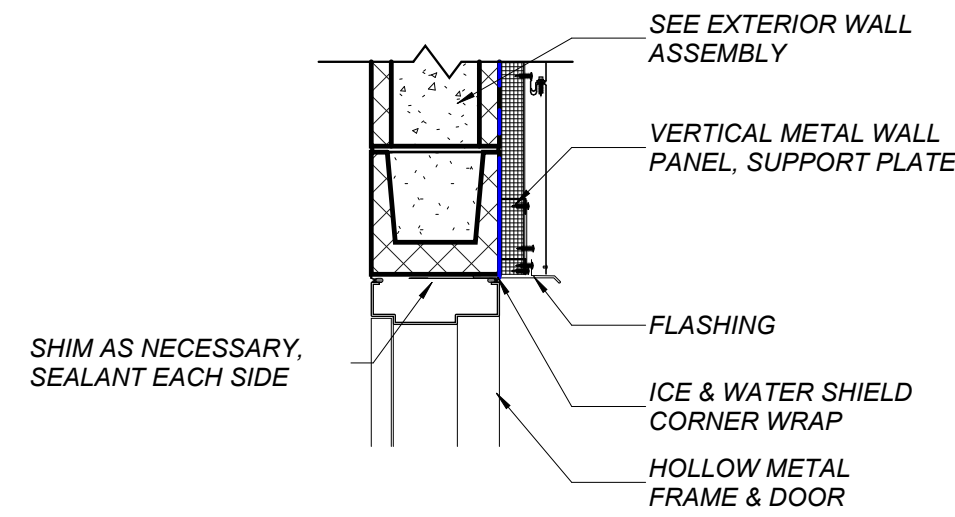
4 ALUM. HEAD DETAIL @ CMU WALL
1" = 1'-0"



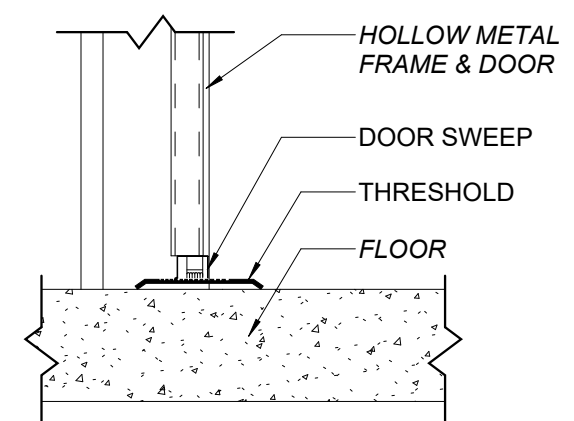
6 HM. HEAD DETAIL @ CMU WALL
1" = 1'-0"



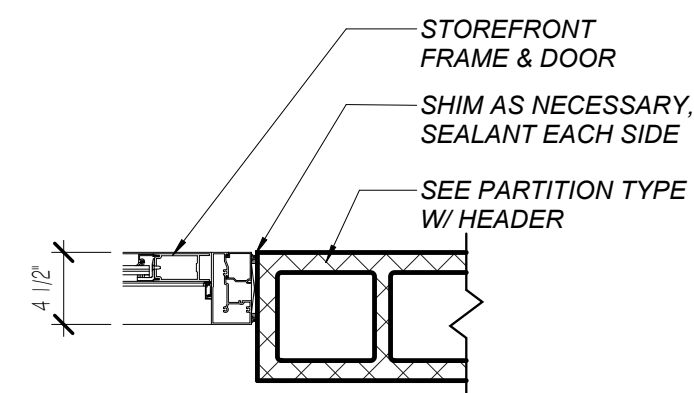
8 ALUM. HEAD DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



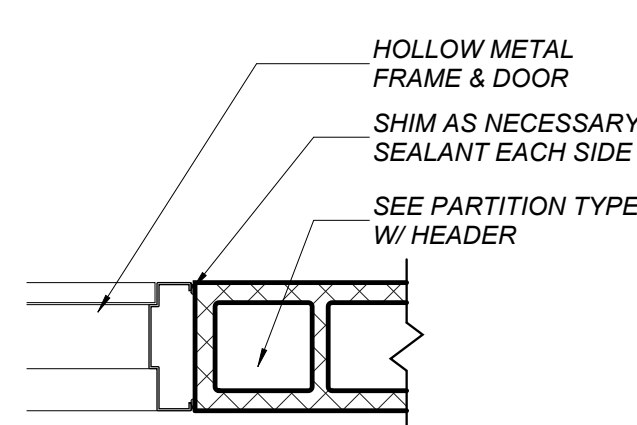
10 HM. HEAD DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



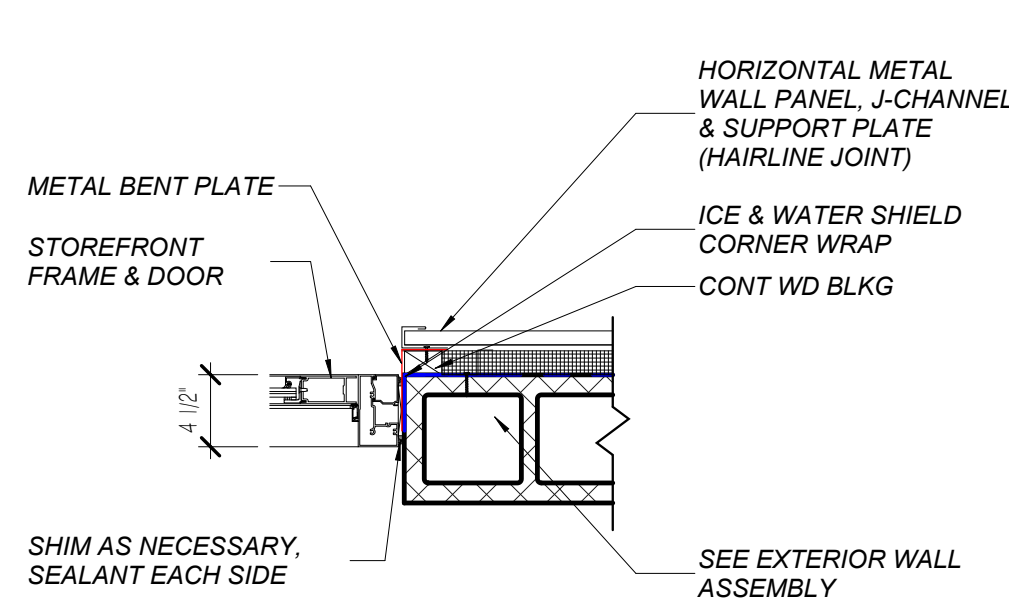
12 HM. THRESHOLD DETAIL @ CMU WALL
1" = 1'-0"



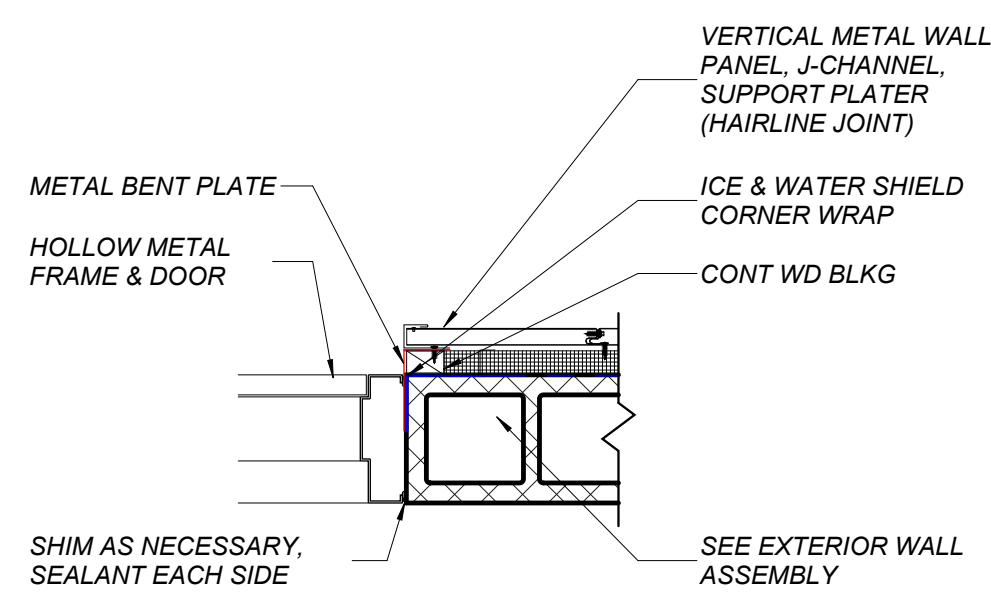
5 ALUM. JAMB DETAIL @ CMU WALL
1" = 1'-0"



7 HM. JAMB DETAIL @ CMU WALL
1" = 1'-0"



9 ALUM. JAMB DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"



11 HM. JAMB DETAIL @ CMU WALL WITH METAL PANEL
1" = 1'-0"

MRE HARDWARE SCHEDULE

GROUP 01 (Exist Ext)						
6	STANDARD PIVOT/HINGE	EX MFR	INCLUDED ALUM DR SUPPLIER			
1	LOCK SET	EXIST	LOCK MECHANISM			
1	CYLINDER	EXIST	CYLINDER CORE			
2	PULLS	EX MFR	INCLUDED ALUM DR SUPPLIER			
2	EXIT DEVICES	EX MFR	CONCEALED ROD TOP & BOT			
2	CLOSERS	EX MFR	INCLUDED ALUM DR SUPPLIER			
1	WEATHERSTRIPPING	EX MFR	INCLUDED ALUM DR SUPPLIER			
2	DOOR SWEEPS	EX MFR	INCLUDED ALUM DR SUPPLIER			
1	THRESHOLD	EX MFR	INCLUDED ALUM DR SUPPLIER			
GROUP 02 (Conn)						
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	626		
1	LATCH SET	SARGENT	8215 P-LEVER			
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER			
2	KICK PLATES	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D		
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER			
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER			
GROUP 03 (Pvt Toilet)						
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	626		
1	PRIVIND LOCK SET	SARGENT	49 8265 V20 P-LEVER			
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626		
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER			
1	KICKPLATE	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D		
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER			
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER			
GROUP 04 (Equip)						
3	STANDARD HINGE	ALUM MFR	ALUM DR SUPPLIER	626		
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER			
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626		
1	CLOSER	ALUM MFR	ALUM DR SUPPLIER			
1	KICKPLATE	ROCKWOOD	K1050 10" HIGH CSK BEV	US32D		
1	WALL DOOR STOP	ALUM MFR	ALUM DR SUPPLIER			
1	WEATHERSTRIPPING	ALUM MFR	ALUM DR SUPPLIER			
GROUP 05 (Elect)						
3	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D		
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626		
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626		
1	SURFACE CLOSER	NORTON	CLP7500	689		
1	WALL DOOR STOP	ROCKWOOD	409	US32D		
3	SILENCERS	ROCKWOOD	608	GRAY		
GROUP 06 (Ext Pr Stor)						
6	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D		
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626		
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626		
2	FLUSH BOLTS (TOP & BOT)	ROCKWOOD	557	US26D		
2	DOOR STOPS	ROCKWOOD	461	US26D		
1	COORDINATOR	ROCKWOOD	2600	US28		
1	SURFACE CLOSER	NORTON	CLP7500	689		
1	ASTRAGAL	PEMCO	357	SP		
2	DOOR SWEEP	PEMCO	345 V34	D		
1	THRESHOLD	PEMCO	272 68"	A		
1	GASKETING	PEMCO	S88 20'	D		
1	DOOR TOP WEATHER DRIP	PEMCO	346 X 72"	D		
GROUP 07 (Ext Stor)						
4	STANDARD HINGE	MCKINNEY	TA2714 4 1/2" X 4 1/2"	US26D		
1	EXIT DEVICE	VON DUPRIN	9827EO-F	US26D		
1	STORAGE LOCK SET	SARGENT	70 8204 P-LEVER	626		
1	CYLINDER	MATCH EXIST	CYLINDER CORE	626		
1	SURFACE CLOSER	NORTON	CLP7500	689		
1	DOOR SWEEP	PEMCO	345 V48	D		
1	THRESHOLD	PEMCO	272 48"	A		
1	GASKETING	PEMCO	S88 20'	D		
1	DOOR TOP WEATHER DRIP	PEMCO	346 X 52"	D		

WALL SCHEDULE

	WALL TYPE 19: 6" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 20: 8" NOMINAL CONCRETE MASONRY UNIT
	WALL TYPE 40: EXTERIOR FIBER CEMENT SIDING 1/2" FIBER CEMENT SIDING 7/8" AIR SPACE 2" CONT. ROCK WOOL INSUL W/ CLIP AND RAIL WEATHER BARRIER 7 5/8" LOAD BEARING CMU INSULATED CAVITIES

WALL TYPES GENERAL NOTES

1. PROVIDE FLUSH STRUCK JOINTS AT ALL EXPOSED PAINTED CMU.
2. FILL ALL UNGROUTED CELLS WITH FOAM INSULATION IN ALL EXTERIOR WALLS

WALL TYPES SUFFIXES

- A. PROVIDE GYPSUM BOARD FULL HEIGHT TO STRUCTURAL DECK ABOVE.
- B. CMU UP TO STRUCTURAL DECK ABOVE.
- C. A SINGLE COURSE OF CONCRETE BLOCK OR 8" CONCRETE CURB UNDER THE STUD PARTITION.
- D. WALL UP TO 7'-4" A.F.F.
- E. ALL UNGROUTED CELLS TO BE FILLED WITH EXPANDABLE FOAM INSULATION
- F. RE STRUCTURE PLANS AND WALL SECTIONS FOR POOL PIT WALL CONFIGURATION
- G. ONE HOUR RATED WALL, ALL PENETRATION TO BE CLUCKED WITH FIRE RATED CLUCKING
- H. FIBER REINFORCED PLASTIC (FRP).

Mountain Recreation Eagle Pool

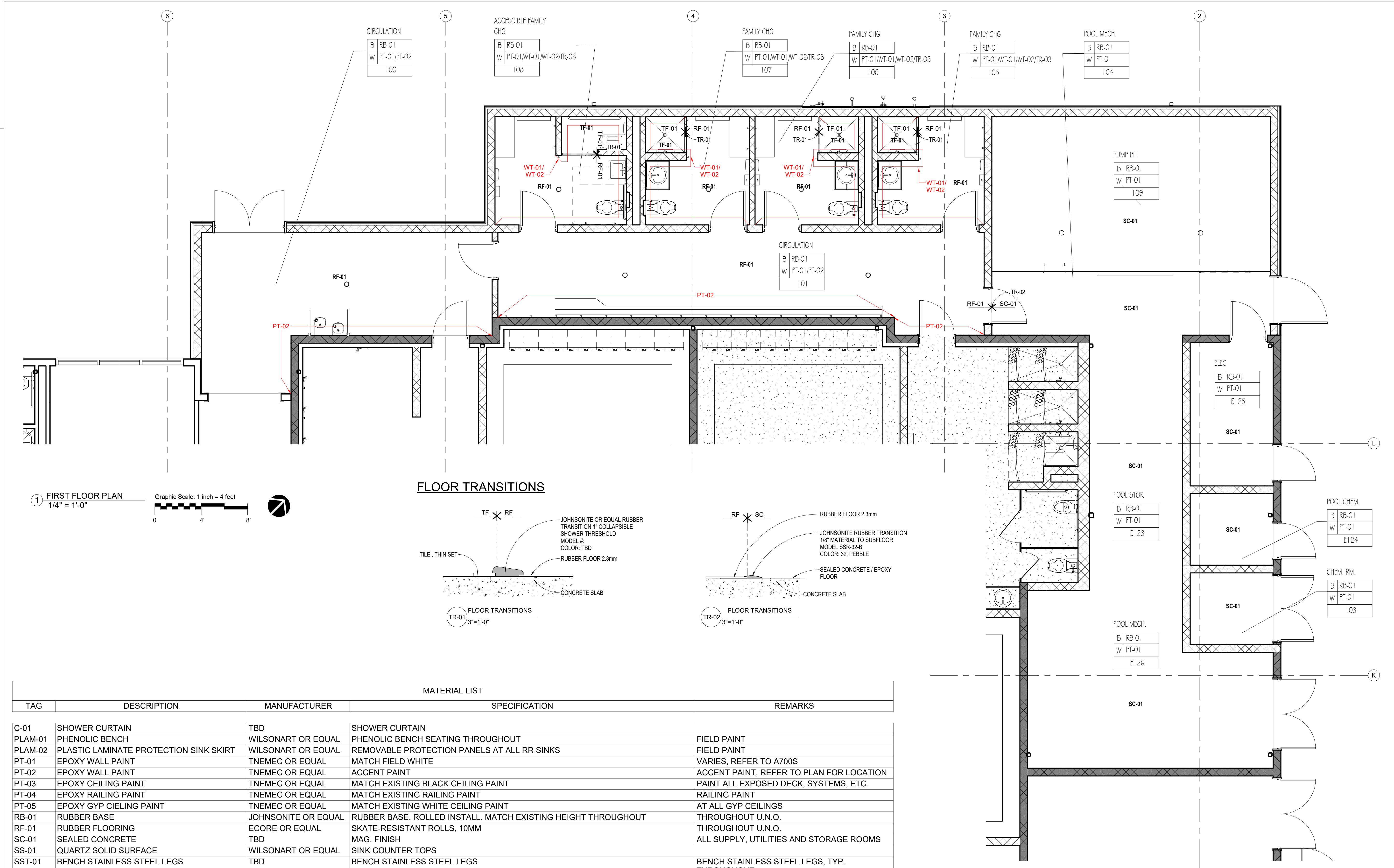
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: SCHEDULE

SHEET #:

A-600



MATERIAL LIST				
TAG	DESCRIPTION	MANUFACTURER	SPECIFICATION	REMARKS
C-01	SHOWER CURTAIN	TBD	SHOWER CURTAIN	
PLAM-01	PHENOLIC BENCH	WILSONART OR EQUAL	PHENOLIC BENCH SEATING THROUGHOUT	FIELD PAINT
PLAM-02	PLASTIC LAMINATE PROTECTION SINK SKIRT	WILSONART OR EQUAL	REMOVABLE PROTECTION PANELS AT ALL RR SINKS	FIELD PAINT
PT-01	EPOXY WALL PAINT	TNEMEC OR EQUAL	MATCH FIELD WHITE	VARIES, REFER TO A700S
PT-02	EPOXY WALL PAINT	TNEMEC OR EQUAL	ACCENT PAINT	ACCENT PAINT, REFER TO PLAN FOR LOCATION
PT-03	EPOXY CEILING PAINT	TNEMEC OR EQUAL	MATCH EXISTING BLACK CEILING PAINT	PAINT ALL EXPOSED DECK, SYSTEMS, ETC.
PT-04	EPOXY RAILING PAINT	TNEMEC OR EQUAL	MATCH EXISTING RAILING PAINT	RAILING PAINT
PT-05	EPOXY GYP CIELING PAINT	TNEMEC OR EQUAL	MATCH EXISTING WHITE CEILING PAINT	AT ALL GYP CEILINGS
RB-01	RUBBER BASE	JOHNSONITE OR EQUAL	RUBBER BASE, ROLLED INSTALL. MATCH EXISTING HEIGHT THROUGHOUT	THROUGHOUT U.N.O.
RF-01	RUBBER FLOORING	ECORE OR EQUAL	SKATE-RESISTANT ROLLS, 10MM	THROUGHOUT U.N.O.
SC-01	SEALED CONCRETE	TBD	MAG. FINISH	ALL SUPPLY, UTILITIES AND STORAGE ROOMS
SS-01	QUARTZ SOLID SURFACE	WILSONART OR EQUAL	SINK COUNTER TOPS	
SST-01	BENCH STAINLESS STEEL LEGS	TBD	BENCH STAINLESS STEEL LEGS	BENCH STAINLESS STEEL LEGS, TYP. THROUGHOUT
TF-01	TILE FLOORING	CROSSVILLE OR EQUAL	2x2 CERAMIC SHOWER TILE, THICKSET, SLOPE TO DRAIN TYP. THROUGHOUT	LOCATIONS OF SHOWERS
TR-01	FLOOR SHOWER TRANSITION STRIP	JOHNSONITE OR EQUAL	VINYL COLLAPSIBLE SHOWER THRESHOLD WATER DAM, WATER STOPPER. ADA COMPLIANT.	AT ALL SHOWERS TYP.
TR-02	FLOOR TRANSITION STRIP	SCHULTER OR EQUAL	FLOORING TRANSITION BETWEEN RUBBER FLOORING TO SEALED CONCRETE	REFER TO FINISH PLAN
TR-03	WALL TILE FINISH EDGE TRIM	SCHULTER	JOLLY SLIM FINISH EDGE	ALL LOCATIONS OF WALL TILE TYP. THROUGHOUT, REFER TO FINISH PLAN AN ELEV.
WT-01	WALL TILE	TRINITY OR EQUAL	3"x6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)
WT-02	WALL TILE	TRINITY OR EQUAL	3"x6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)
WT-03	WALL TILE	TRINITY OR EQUAL	3"x6" COLOR/PATTERN/ GROUT: TBD WALL TILE AT WET WALLS TO BE 2 TILE PATTERN, FULL WALL TO FLOOR INSTALL, PROVIDE FINISH EDGE SCHULTER TRIMS AT ALL TRANSITIONS	WET WALLS (TILE TO FLOOR)

ROOM FINISH SCHEDULE					
Number	Name	Floor Finish	Main Room finish		Finish Comment
			Wall Finish	Base Finish	
100	CIRCULATION	RF-01	PT-01/PT-02	RB-01	
101	CIRCULATION	RF-01	PT-01/PT-02	RB-01	
103	CHEM. RM.	SC-01	PT-01	RB-01	
104	POOL MECH.	SC-01	PT-01	RB-01	
105	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
106	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
107	FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
108	ACCESSIBLE FAMILY CHG	RF-01/ TF-01	PT-01/WT-01/WT-02/TR-03	RB-01	TILED WALLS TO HAVE TILE TO FLOOR, NO RUBBER BASE NEEDED
109	PUMP PIT	SC-01	PT-01	RB-01	



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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
1 3/22/2024 SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: FIRST FLOOR FINISH PLAN

SHEET #:
A-700



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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: POOL REFERENCE PLAN

SHEET #:

AQ000

DRAWING INDEX	
SHEET	DESCRIPTION
AQ000	POOL REFERENCE PLAN
AQ100	LAP POOL PLAN & SECTIONS
AQ101	LAP POOL DETAILS
AQ102	LAP POOL DETAILS
AQ200	RECREATION POOL PLAN & SECTIONS
AQ201	RECREATION POOL DETAILS
AQ202	RECREATION POOL DETAILS
AQ203	RECREATION POOL DETAILS
AQ204	WATERSLIDE PLAN, ELEVATION & DETAILS
AQ400	POOL PIPING NOTES & SCHEDULES
AQ401	POOL SUCTION PIPING PLAN
AQ402	POOL RETURN PIPING PLAN
AQ403	POOL FEATURE RETURN PIPING PLAN
AQ500	POOL MECHANICAL NOTES & SCHEDULES
AQ501	POOL MECHANICAL ROOM PLAN & SECTIONS
AQ502	POOL MECHANICAL DETAILS
AQ503	POOL MECHANICAL DETAILS
AQ504	POOL MECHANICAL DETAILS
AQ505	POOL MECHANICAL DETAILS
AQ600	LAP POOL SYSTEMS SCHEMATIC
AQ601	RECREATION POOL SYSTEMS SCHEMATIC

DESIGN DATA			
	UNITS	LAP POOL	RECREATION POOL
LENGTH	FT.	75'-3/4"	VARIABLE
WIDTH	FT.	VARIABLE	VARIABLE
WATER SURFACE AREA	SQ. FT.	3,353	4,180
PERIMETER	FT.	248	362
VOLUME	GALLONS	130,750	75,736
RECIRCULATION SYSTEM			
POOL TURNOVER RATE	HOURS	3.96	1.87
RECIRCULATION RATE	GPM	550	675
SEWER CAPACITY	GPM	REFER TO PLUMBING	REFER TO PLUMBING
BATHER LOAD	PERSONS	206	278
MAXIMUM FACILITY BATHER LOAD	PERSONS	484	

GENERAL POOL NOTES

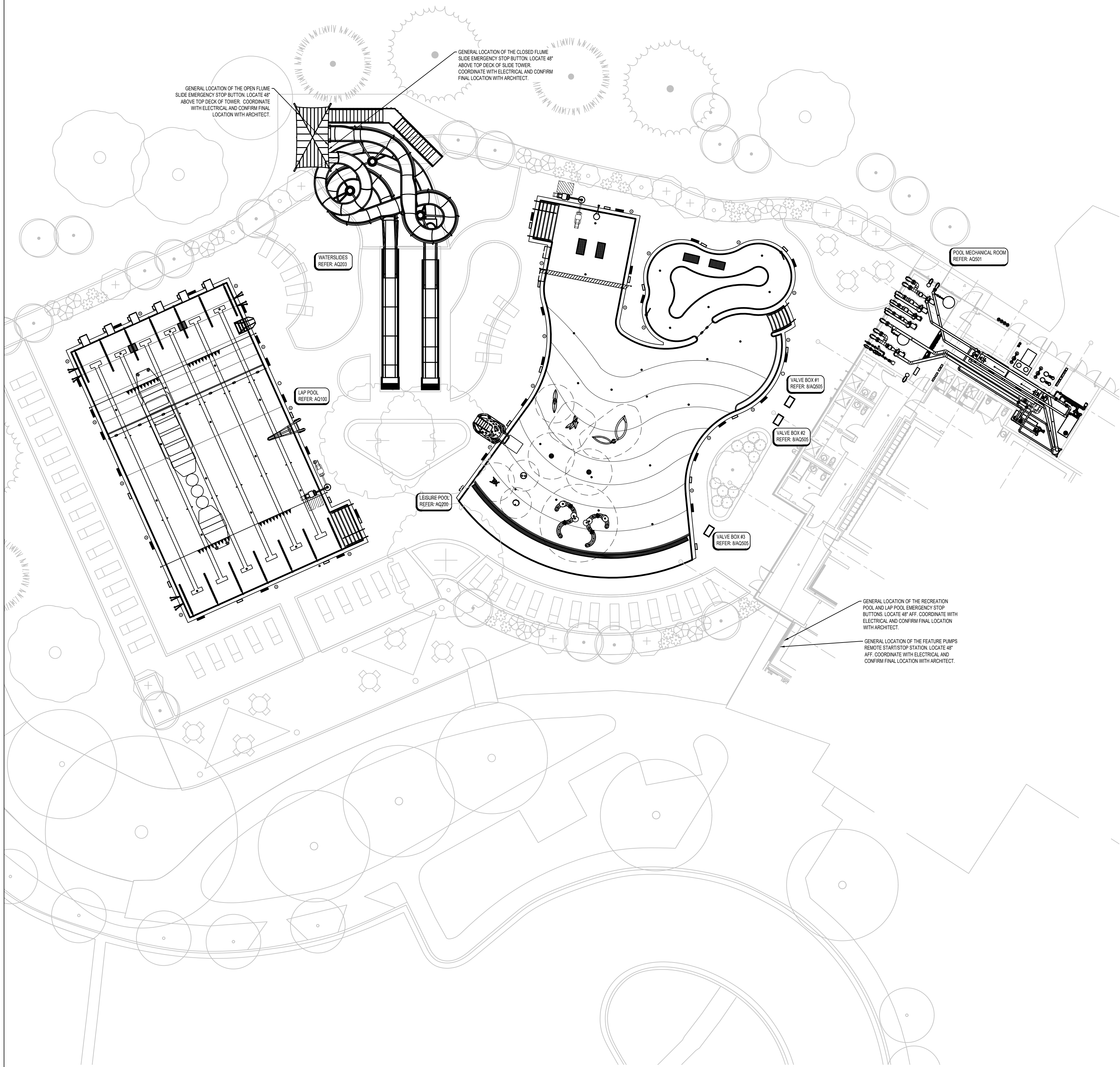
- ◆ DENOTES WATER DEPTH FROM WATER LEVEL.
2. POOL FINISH MUST BE A PROPRIETARY AGGREGATE PLASTER WITH A 6" CERAMIC TILE BAND AND A CAST-IN-PLACE CONCRETE COPING WITH TILE DECK MARKINGS.
3. ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS MUST HAVE A 1/4" SLIP RESISTANT FINISH.
4. TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
5. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS.
6. THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVERED WITH A MAXIMUM 6" RADIUS.
7. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MUST NOT EXCEED 25'-0" APART FROM EACH OTHER, AND MUST BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
8. ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
9. SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
10. REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
11. ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
12. REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
13. ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
14. NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
15. COMPETITION POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S).
16. REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
17. ALL METALLIC PORTIONS OF PLAY FEATURE MUST BE EPOXY COATED STAINLESS STEEL.
18. ALL POOL REINFORCING STEEL, METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM MUST BE BONDED PER NEC 680. REFER:
19. IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO THE AMERICAN RED CROSS OR A SIMILAR APPLICABLE LIFEGUARD AGENCY ARE CONDUCTED PRIOR TO OPERATING THE FACILITY AND REGULARLY ACCORDING TO AGENCY GUIDELINES. ZONE EVALUATIONS ARE NECESSARY TO CONFIRM APPROPRIATE LIFEGUARD PLACEMENT AND ZONE COVERAGE.
20. CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES. PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
21. THE POOLS AND ZERO-ENTRY TRENCH SYSTEM MUST BE WATER TESTED IN ACCORDANCE TO THE HYDROSTATIC TIGHTNESS TESTING OF AN OPEN CONCRETE CONTAINMENT STRUCTURE AS REQUIRED BY THE AMERICAN CONCRETE INSTITUTE (ACI) 308.1-10 SECTION 2. REFER TO SPECIFICATIONS. REFER:

CONTRACTOR SUPPLIED POOL
CHEMICALS

DESCRIPTION	AMOUNT
CALCIUM HYPOCHLORITE	FULL FEEDER(S) + 300 LBS
MURIATIC ACID	FULL CARBOY(S) + 30 GALLONS
CO2	FULL BULK TANK(S) : 750 LBS
SODIUM BICARBONATE	200 LBS
CALCIUM CARBONATE	100 LBS
SODIUM THIOSULFATE	50 LBS

DEFERRED APPROVAL NOTICE

INSTALLATION OF THE WATERSLIDE AND ASSOCIATED FEATURE FOOTINGS MUST NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS SPECIFICATIONS BEARING THE SEAL, SIGNATURE, AND DATE OF A LICENSED PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY OR THE DEPARTMENT HAVING JURISDICTION. CONTRACTOR MUST BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.



POOL ALTERNATES

ALTERNATE #1: WATERSIDE LOWER
BASE BID: PROVIDE AND INSTALL CAPPED PIPING FROM THE PUMP
PISTON TO THE PLANNED WATERSIDE TOWER LOCATION. PROVIDE
SPACE AND ELECTRICAL ROUGH-IN IN THE PUMP PIT FOR FUTURE
WATERSIDE PUMPS; PROVIDE AND INSTALL WATERSIDE
RUNOUT DISCHARGE FRAME/GRATES TO PLANNED WATERSIDE
RUNOUT LOCATION. CAP RUNOUT DISCHARGE PIPES
UNDERGROUND.
ALTERNATE 1A: PROVIDE AND INSTALL PIPING, BOTH PUMPS,
BOTH WATERSIDES, STAR TOWER, RUNOUT PAD, BOTH RUNOUT
SUMPS, AND BOTH FRAME/GRATES AS SHOWN ON THE
DRAWINGS.
ALTERNATE 1B: PROVIDE AND INSTALL PIPING, OPEN FLUME SLIDE
PUMP, OPEN FLUME WATERSIDE, STAR TOWER, RUNOUT PAD,
BOTH RUNOUT SUMPS, AND BOTH FRAME/GRATES AS SHOWN ON
THE DRAWINGS. CLOSED FLUME WATERSIDE PIPING SHALL BE
ROUGHED-IN AND CAPPED AS INDICATED ON THE BASE BID, AND
CLOSE FLUME WATERSIDE AND PUMP SHALL BE INSTALLED AT
THE LATER DATE. FUTURE PUMP ELECTRICAL SHALL BE
ROUGHED-IN.

ALTERNATE #2: SPRAY FEATURES
BASE BID: PROVIDE AND INSTALL CAPPED PIPING FROM THE PUMP PIT TO THE PLANNED MODULAR ANCHORAGE PROVIDED BY SPRAY FEATURE MANUFACTURER. PROVIDE SPACE IN THE PUMP PIT FOR FUTURE SPRAY FEATURE PUMPS. PROVIDE AND INSTALL MODULAR SPRAY FEATURE ANCHORS AT INTENDED LOCATIONS WITH FOOTINGS REQUIRED BY MANUFACTURER AND PROVIDE WITH CAP FOR WINTERIZATION.
ALTERNATE: PROVIDE AND INSTALL PIPING, PUMPS, ANCHORS, FOOTINGS, AND SPRAY FEATURES AT RECREATION POOL.

ALTERNATE #3: ZIPLINE FEATURE
 BASE BID: DO NOT PROVIDE ZIPLINE FEATURE AT THE LAP POOL.
 ALTERNATE: PROVIDE AND INSTALL ZIPLINE FEATURE AT THE LAP
 POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED
 ON THE DRAWINGS.

ALTERNATE #4: CLIMBING WALL FEATURE
BASE BID: DO NOT PROVIDE CLIMBING WALL FEATURE AT THE LAP POOL.
ALTERNATE: PROVIDE AND INSTALL CLIMBING WALL FEATURE AT THE LAP POOL WITH ALL REQUIRED ANCHORS AND FOOTINGS INDICATED ON THE DRAWINGS.

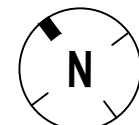
ALTERNATE #5: FLOATING OBSTACLE COURSE
BASE BID: DO NOT PROVIDE FLOATING OBSTACLE COURSE AT THE LAP POOL.
ALTERNATE: PROVIDE WIBIT FEATURE AT THE LAP POOL AS INDICATED ON THE DRAWINGS.

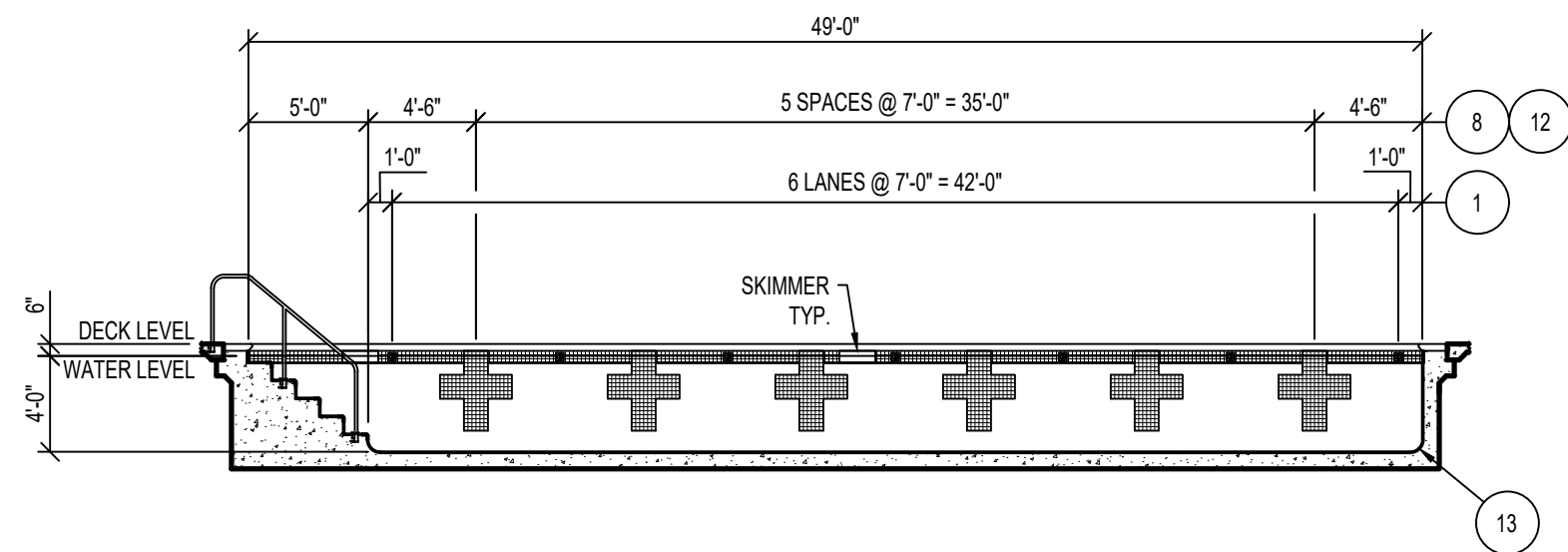
ALTERNATE #6: WATER BASKETBALL AND VOLLEYBALL
BASE BID: PROVIDE AND INSTALL ANCHORS FOR FUTURE WATER
BASKETBALL AND WATER VOLLEYBALL. DO NOT PROVIDE
BASKETBALL AND VOLLEYBALL FEATURES.
ALTERNATE: PROVIDE AND INSTALL WATER BASKETBALL AND
WATER VOLLEYBALL FEATURES AND ANCHORS AS INDICATED ON
THE DRAWINGS.

ALTERNATE #7: WINTER POOL SAFETY COVERS
BASE BID: DO NOT PROVIDE WINTER SAFETY COVERS FOR THE
POOLS.
ALTERNATE: PROVIDE AND INSTALL WINTER SAFETY COVERS AND
ALL ASSOCIATED ANCHORS FOR BOTH POOLS.

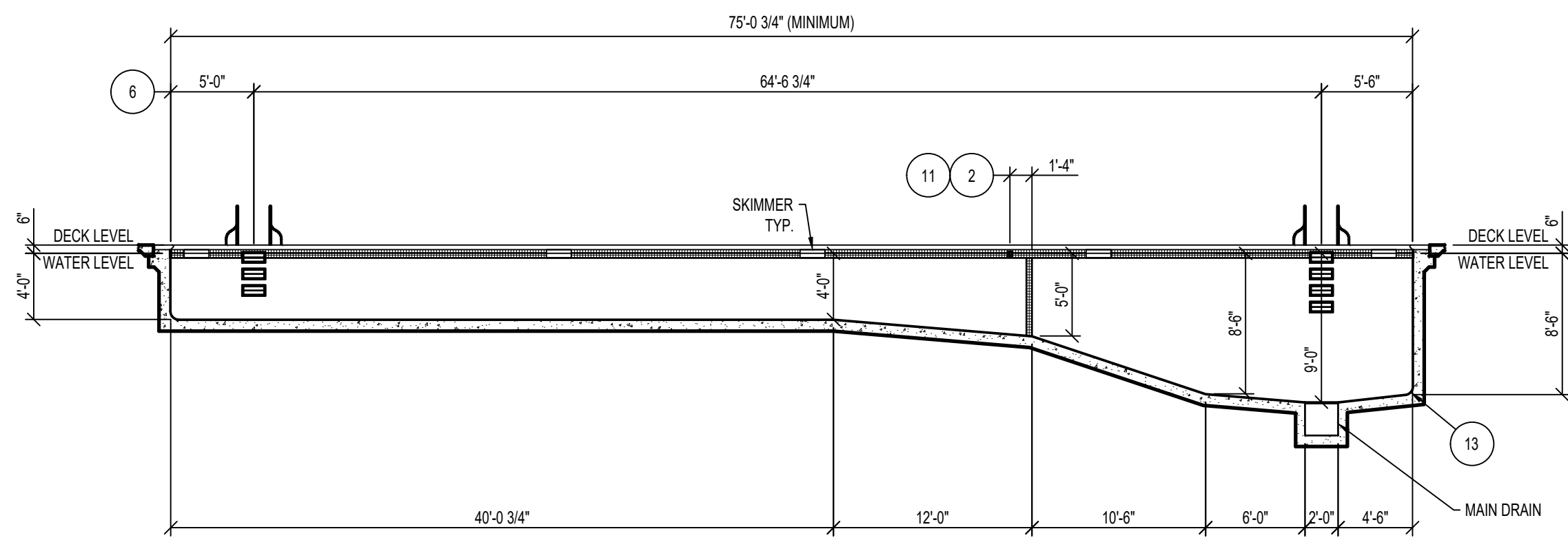
ALTERNATE #8: THERMAL POOL COVERS
 BASE BID: DO NOT PROVIDE THERMAL POOL COVERS FOR THE POOLS.
 ALTERNATE: PROVIDE THERMAL POOL COVERS AND DECK REELS FOR THE POOLS.

POOL REFERENCE PLAN

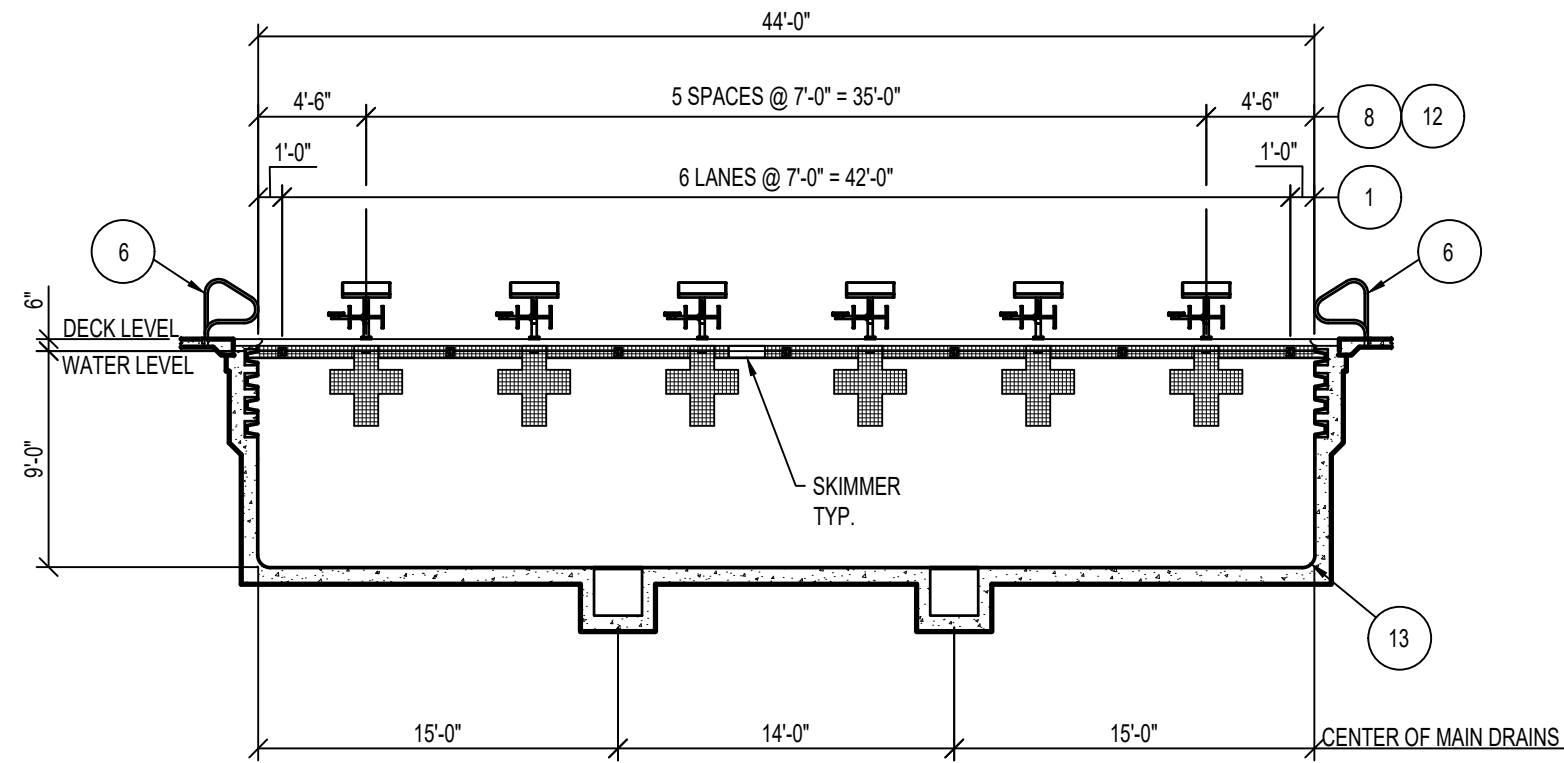
$$1/16'' = 1'-0''$$




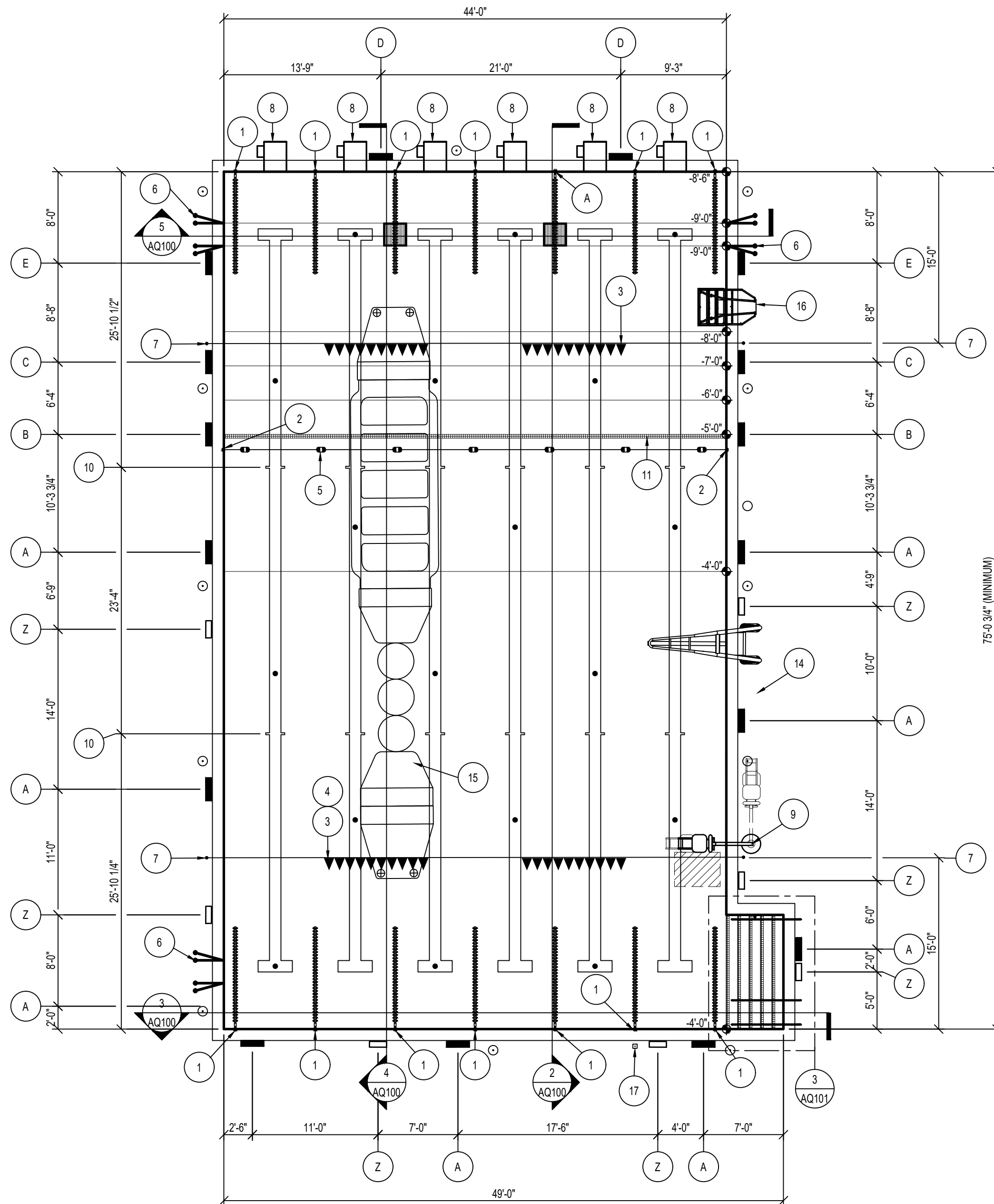
3 LAP POOL SECTION
AQ100
1/8" = 1'-0"



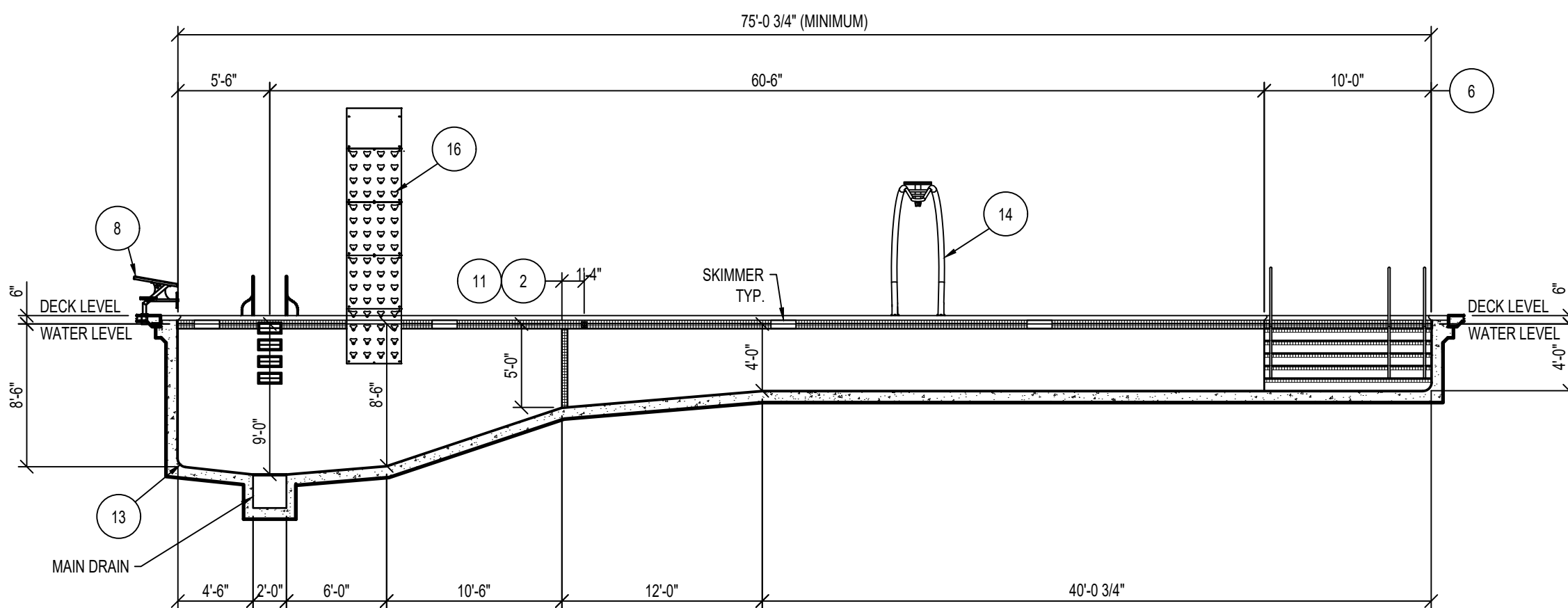
4 LAP POOL SECTION
AQ100
1/8" = 1'-0"



5 LAP POOL SECTION
AQ100
1/8" = 1'-0"



1 LAP POOL PLAN
AQ100
1/8" = 1'-0"



2 LAP POOL SECTION
AQ100
1/8" = 1'-0"

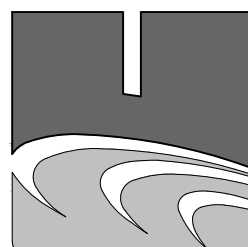
DEPTH & WARNING SIGNAGE SCHEDULE	
ID	SIGNAGE
A	4 FT 0 IN
B	5 FT 0 IN
C	7 FT 0 IN
D	8 FT 6 IN
E	9 FT 0 IN
Z	NO DIVING

NOTE:
REFER: X/AQX.X FOR DETAIL.

EQUIPMENT SCHEDULE	
ID	ITEM
1	LANE ROPE CUP ANCHOR REFER:
2	SAFETY ROPE CUP ANCHOR REFER:
3	BACKSTROKE PENNANT
4	FALSE START ROPE ASSEMBLY
5	SAFETY ROPE
6	GRAB RAILS & RECESSED STEPS REFER:
7	STANCHION POST & ANCHOR REFER:
8	DECK MOUNTED STARTING PLATFORM & ANCHOR REFER:
9	POOL LIFT & ANCHOR REFER:
10	RESURFACING MARKER REFER:
11	4" CONTRASTING TILE BAND COLOR BY ARCHITECT
12	WALL TARGET REFER:
13	POOL COVE REFER:
14	AQUA ZIP'N REFER:
15	WIBIT FEATURE REFER:
16	CLIMBING WALL FEATURE REFER:
17	WATER BASKETBALL ANCHOR ONLY REFER:



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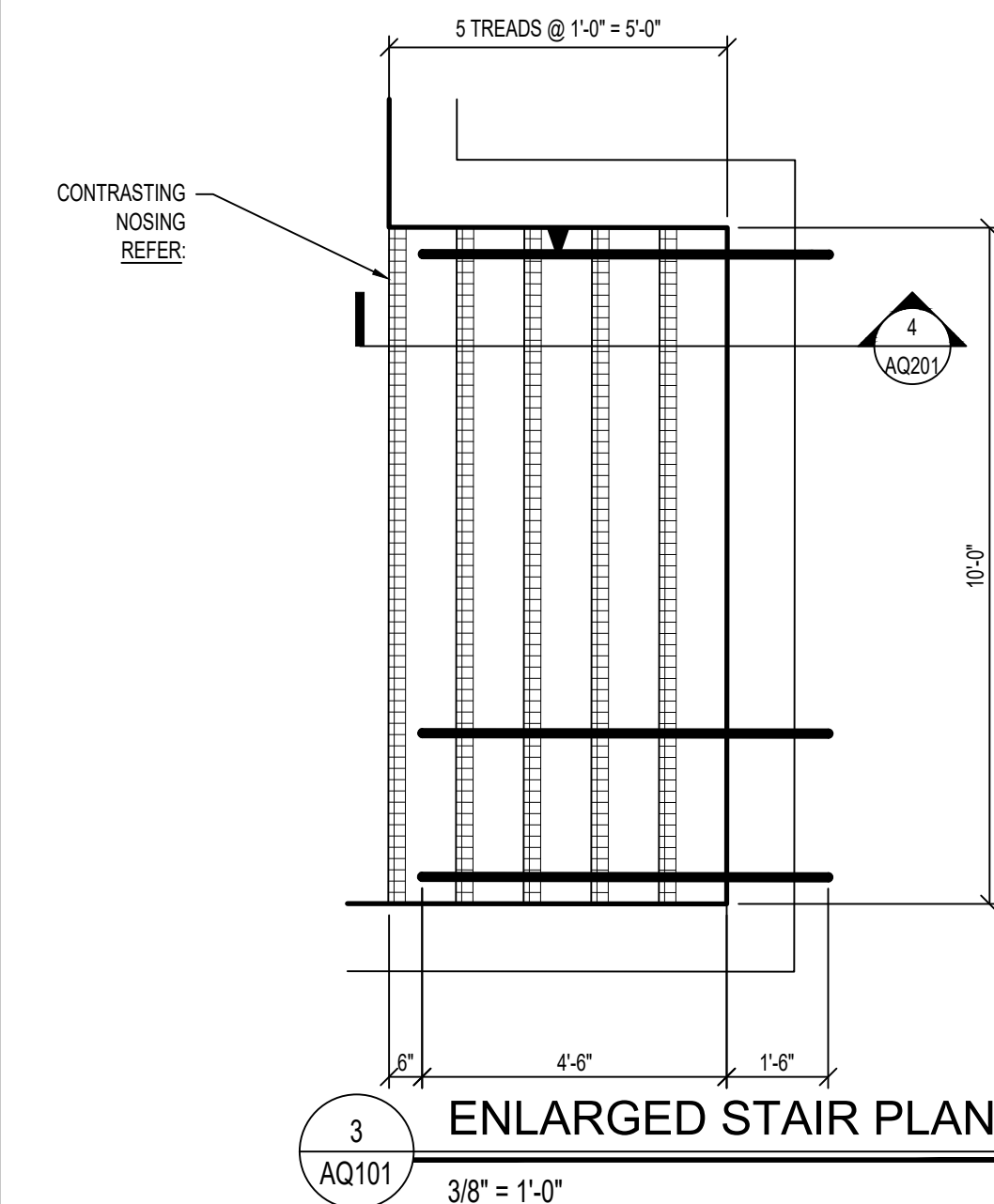
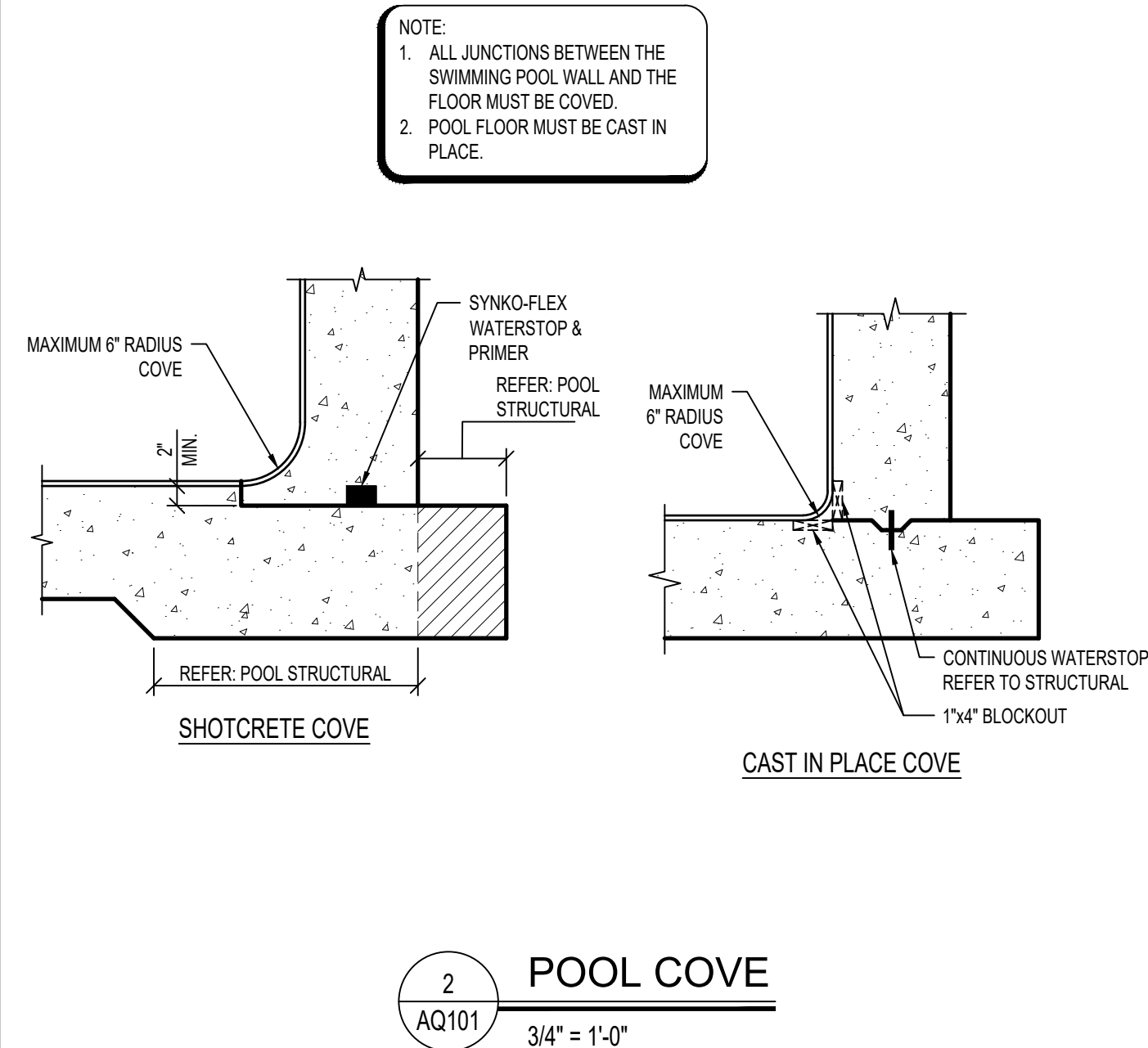
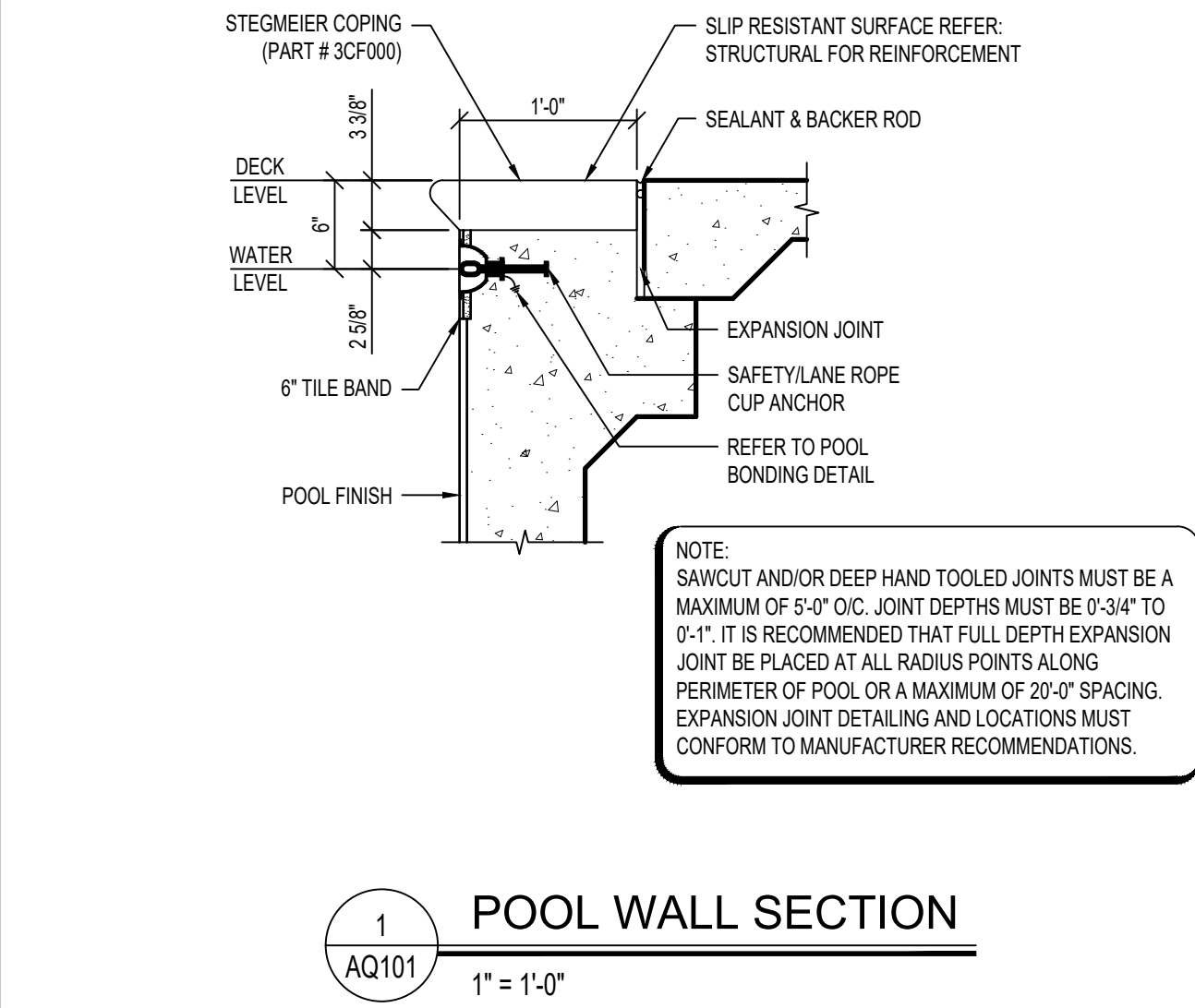
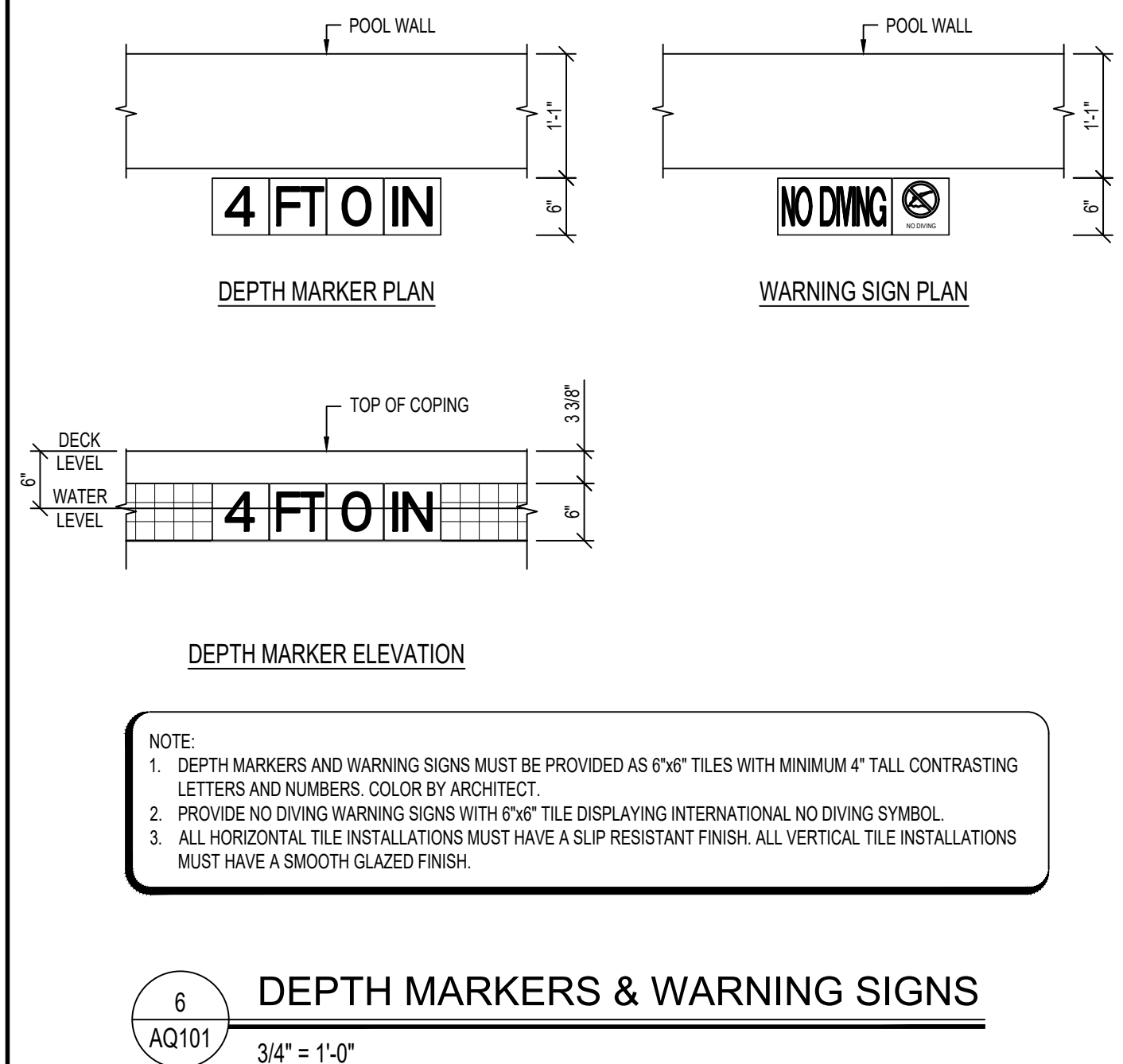
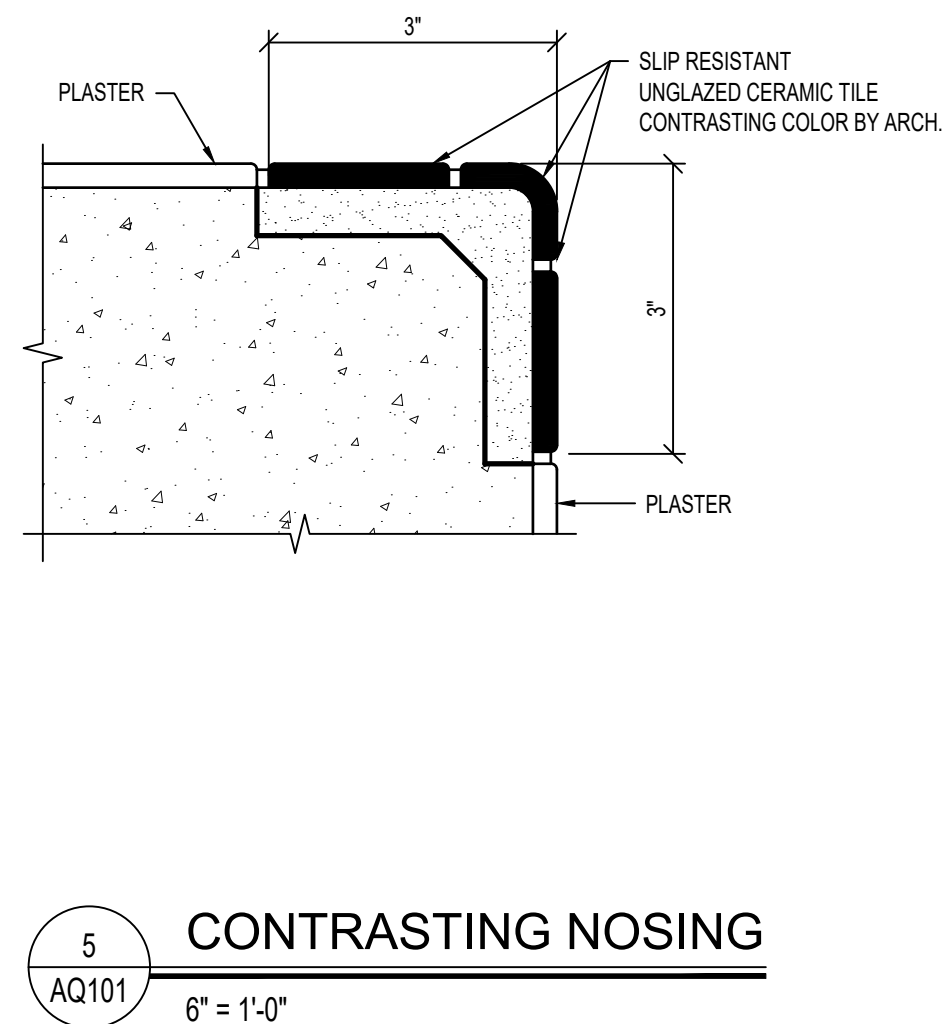
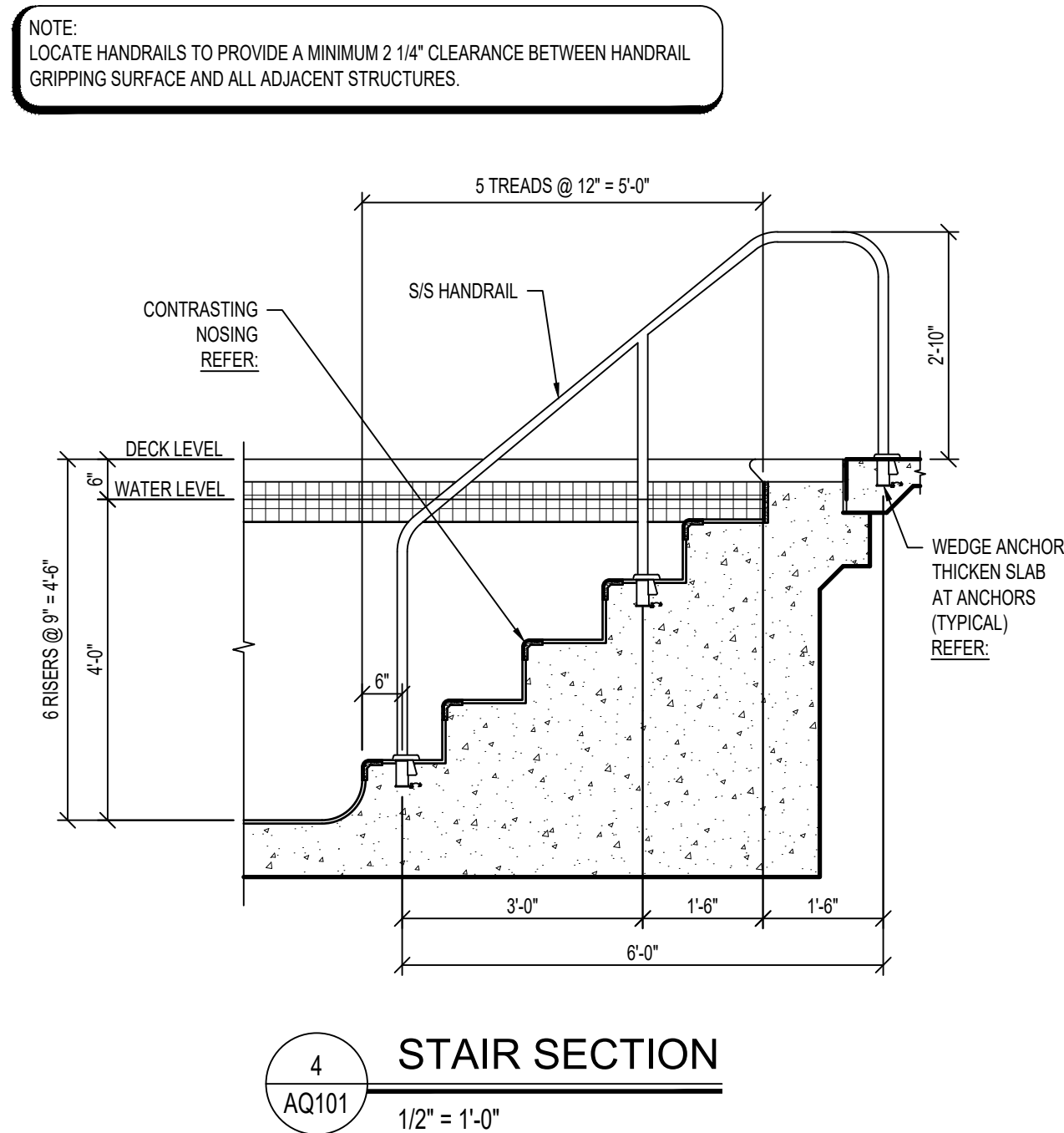
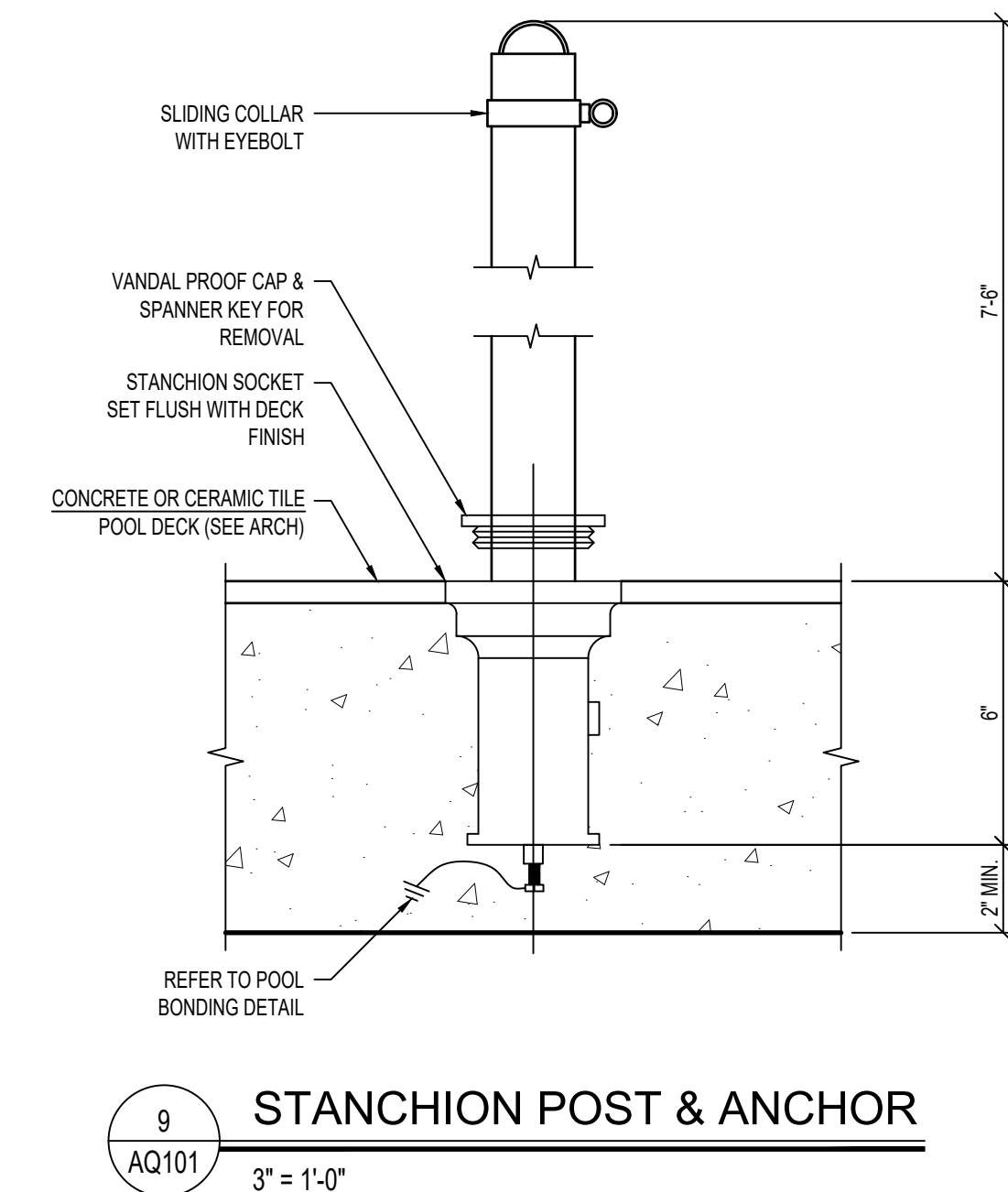
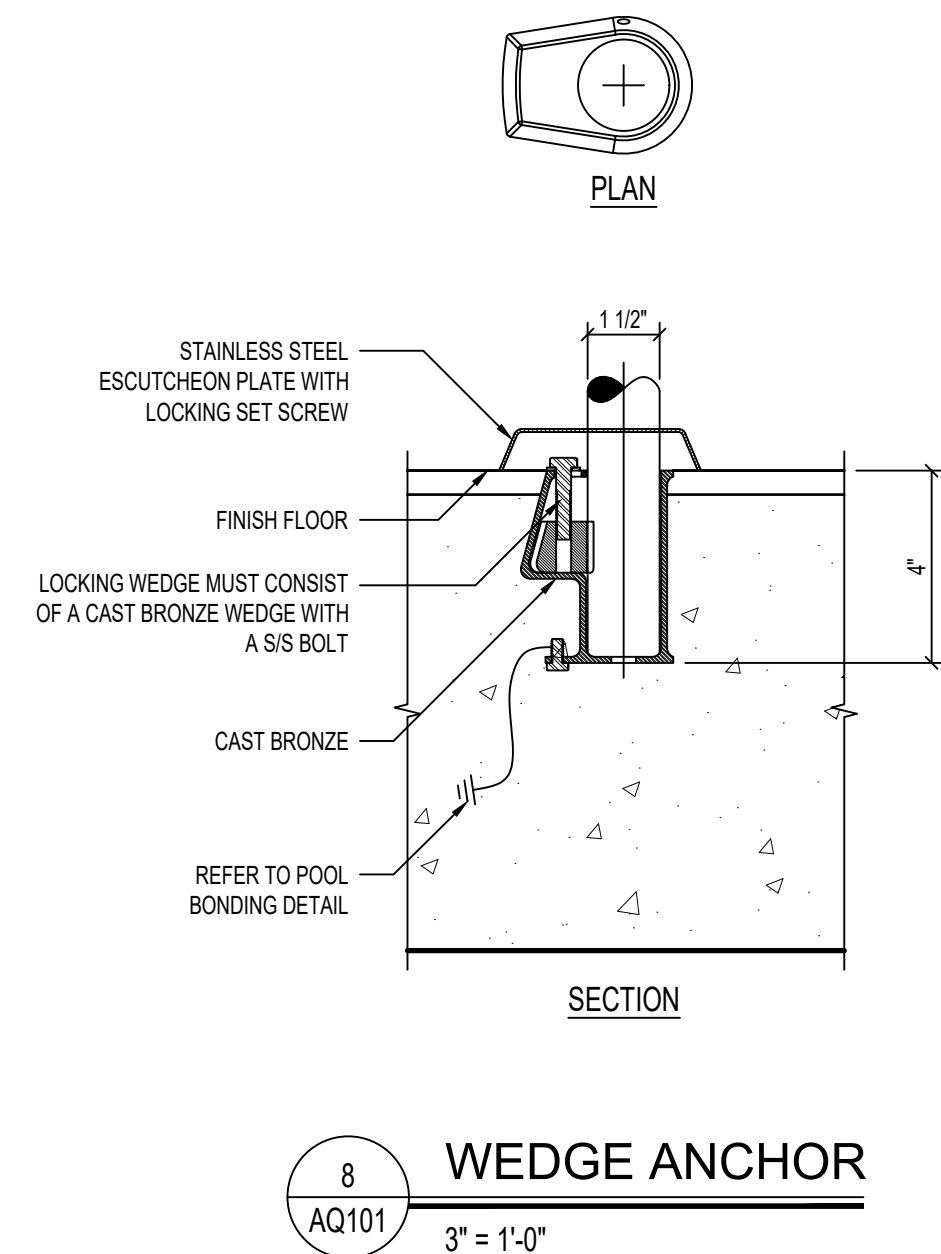
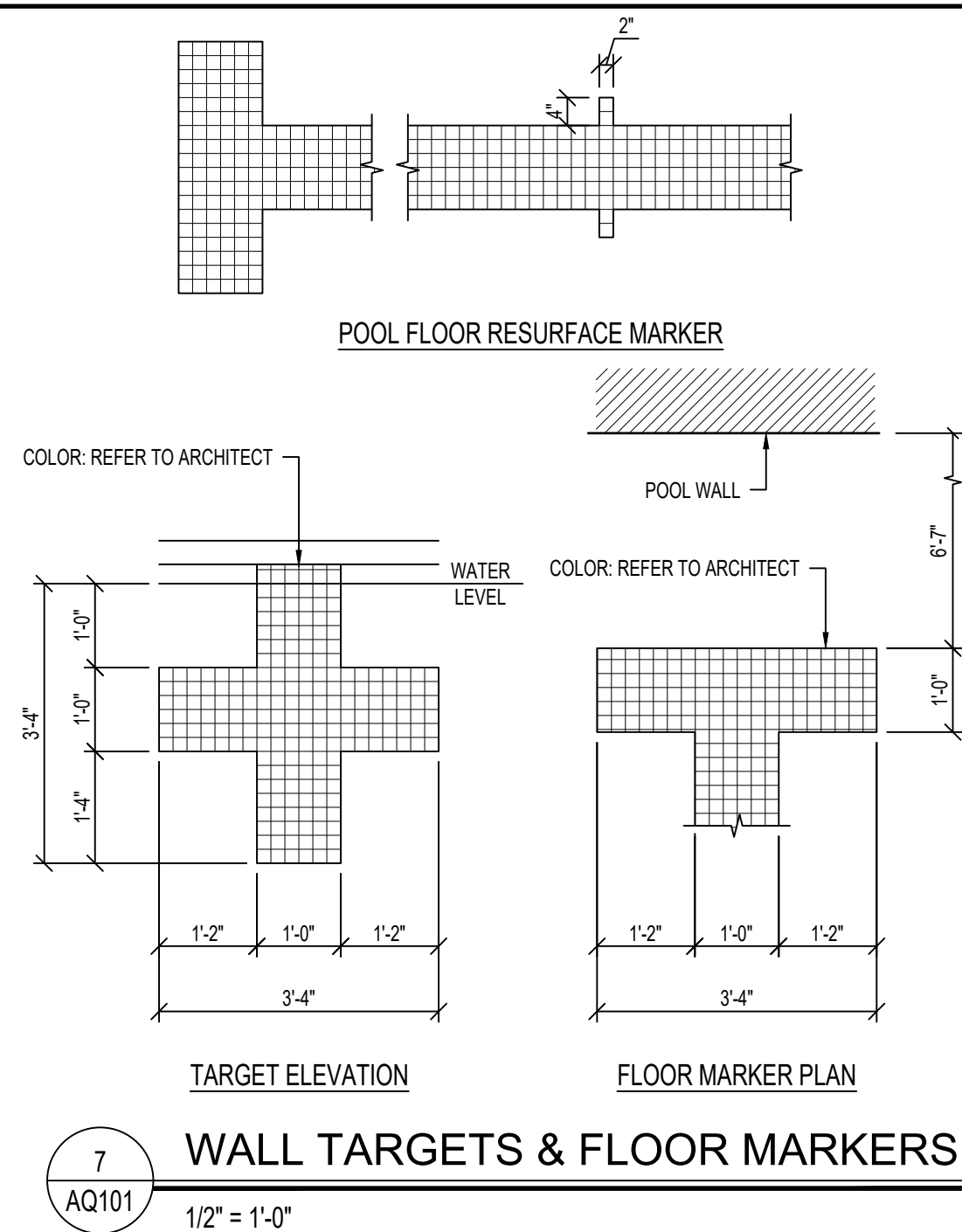
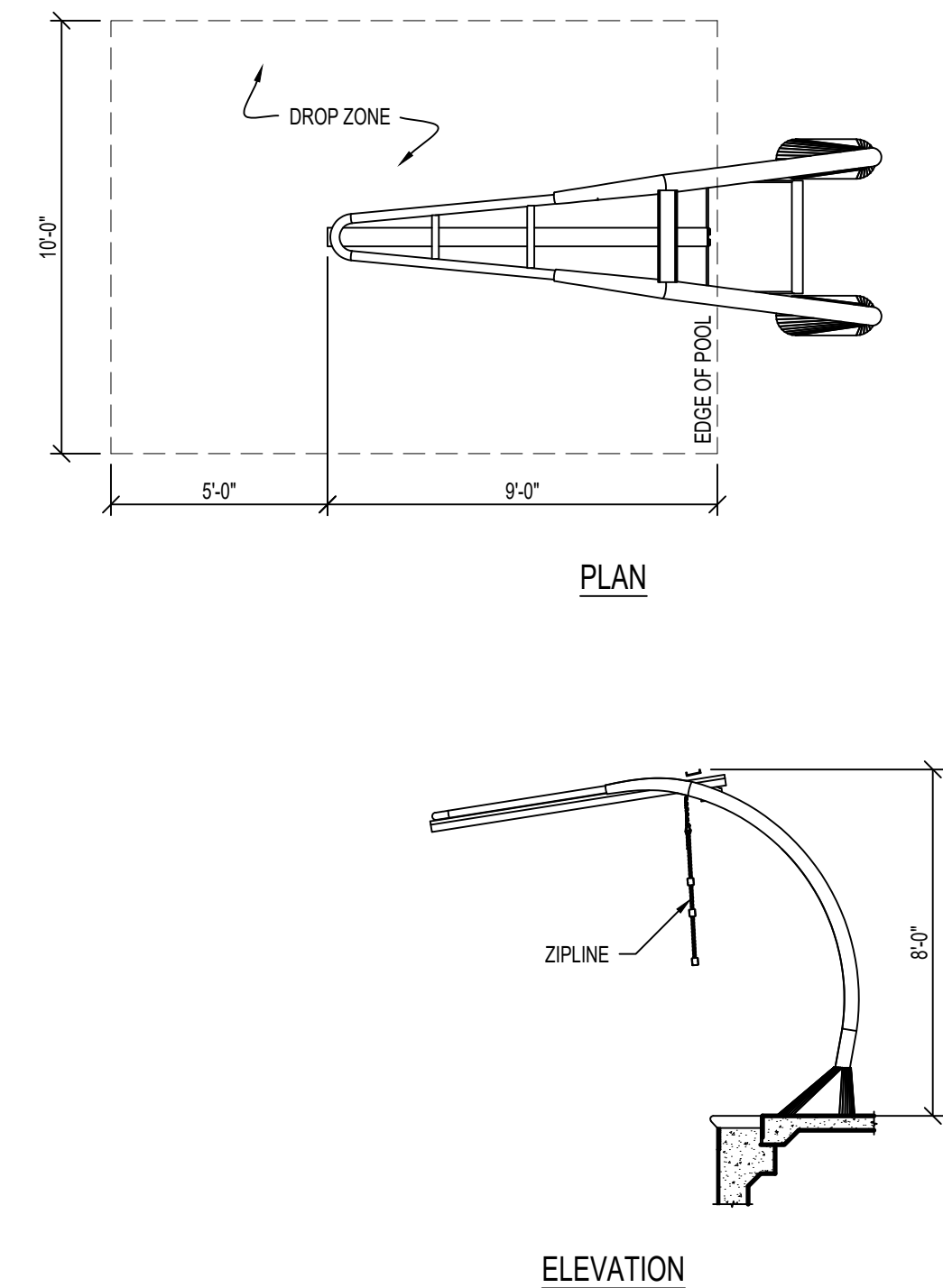
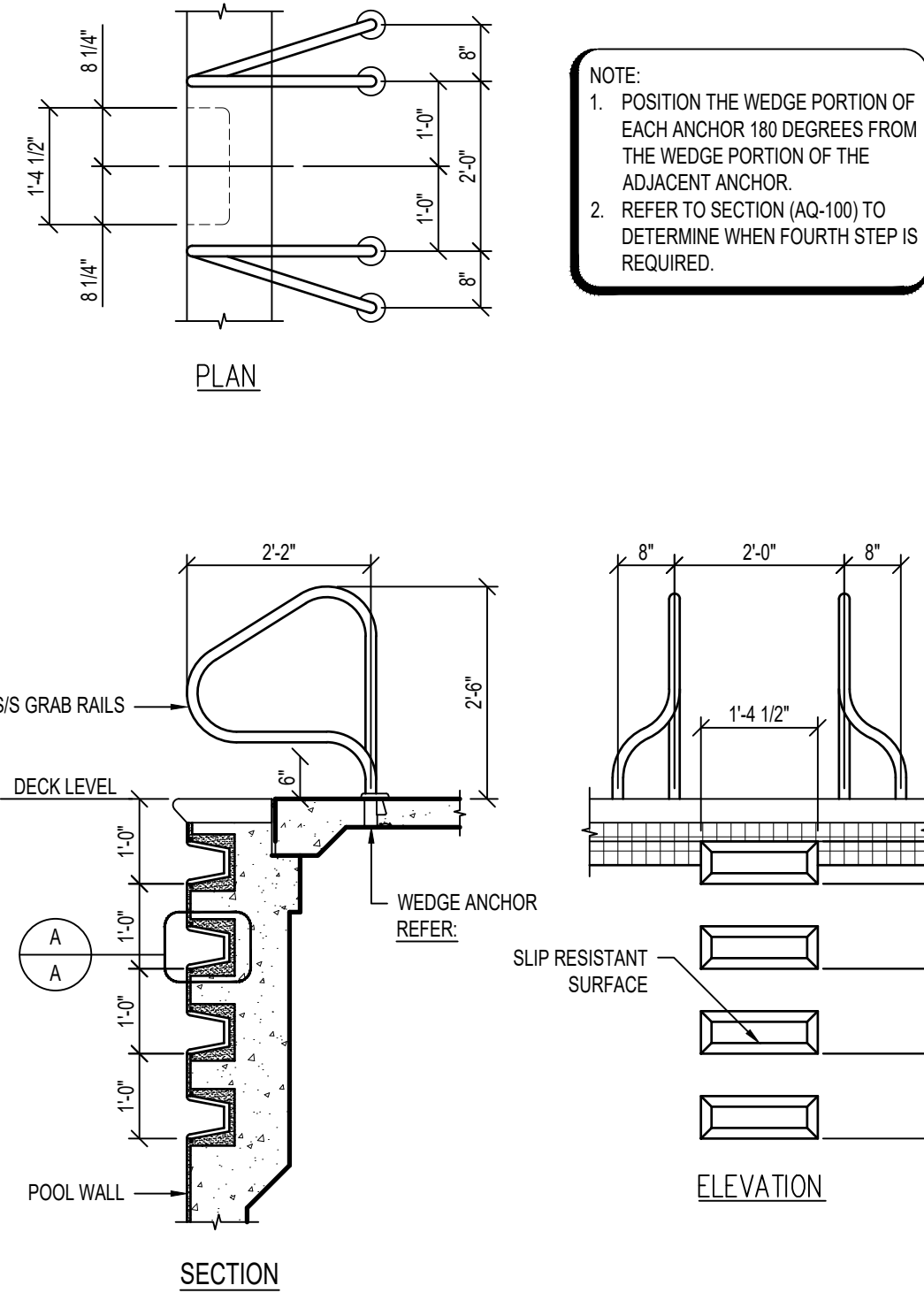
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NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LAP POOL PLAN & SECTIONS

SHEET #:

AQ100



NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LAP POOL DETAILS

SHEET #:
AQ101



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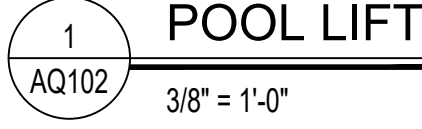
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
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3	03/22/2024	SITE PLAN APPLICATION 02

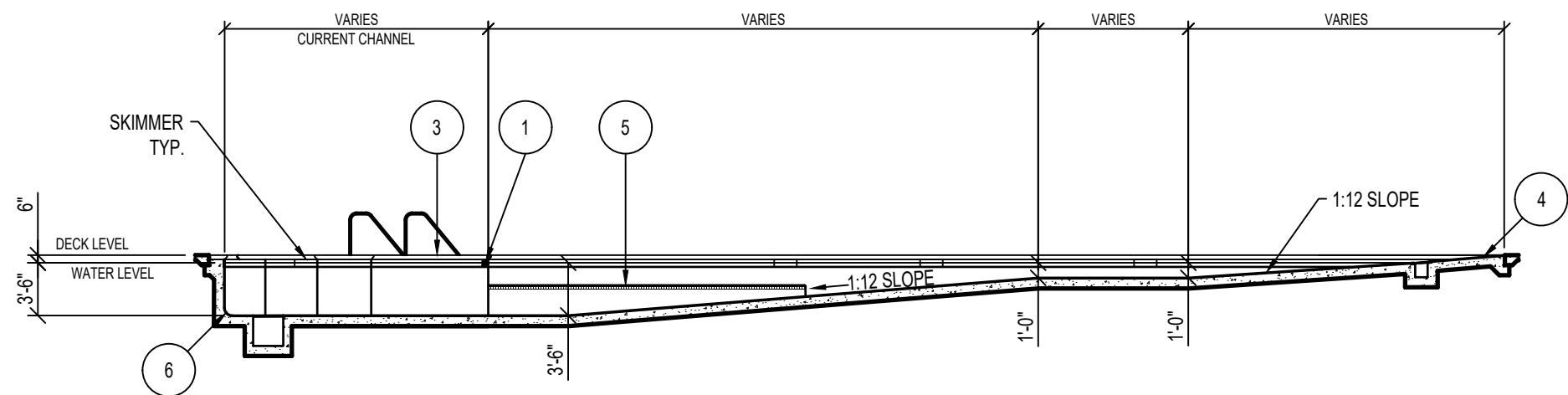
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ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LAP POOL DETAILS

SHEET #:

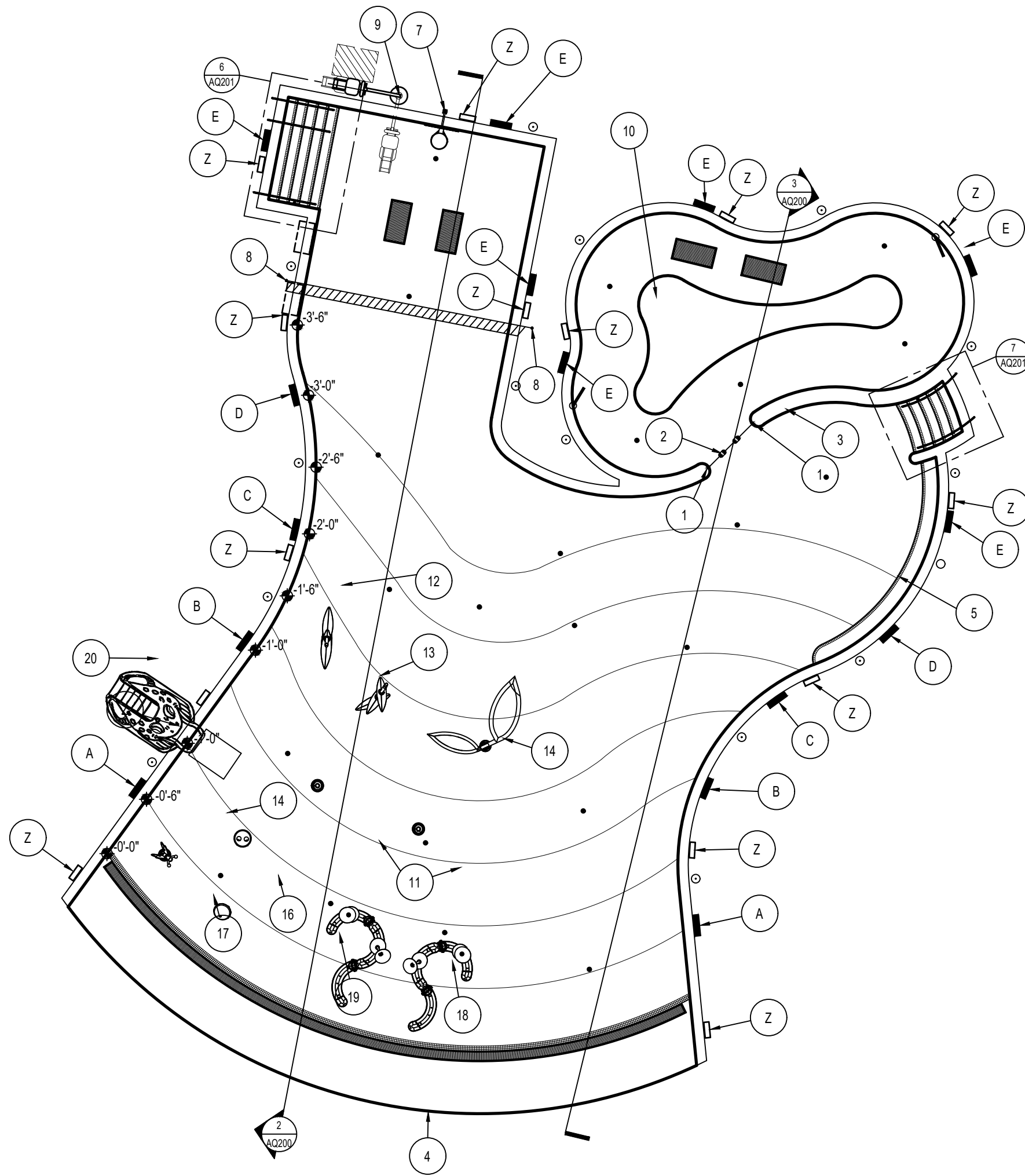
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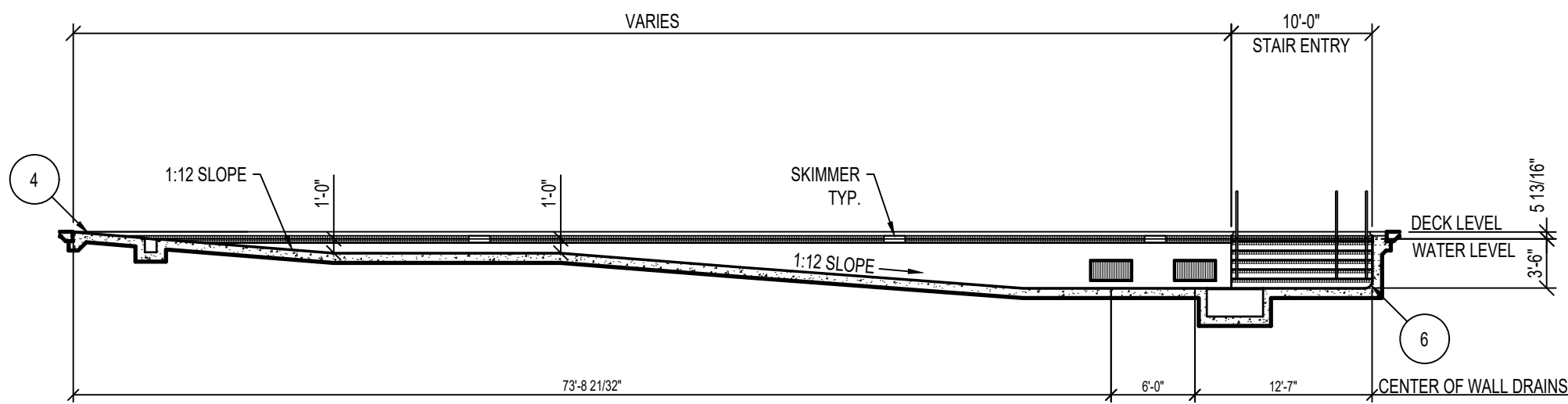
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3 LEISURE POOL SECTION
3/32" = 1'-0"



1 LEISURE POOL PLAN
3/32" = 1'-0"



2 LEISURE POOL SECTION
3/32" = 1'-0"

DEPTH & WARNING SIGNAGE SCHEDULE	
ID	SIGNAGE
A	0 FT 6 IN
B	1 FT 0 IN
C	2 FT 0 IN
D	3 FT 0 IN
E	3 FT 6 IN
Z	NO DIVING
NOTE: REFER: X/AQX.X FOR DETAIL.	

EQUIPMENT SCHEDULE	
ID	ITEM
1	SAFETY ROPE CUP ANCHOR REFER:
2	SAFETY ROPE
3	WING WALL REFER:
4	ZERO ENTRY REFER:
5	UNDERWATER BENCH REFER:
6	POOL COVE REFER:
7	WATER BASKETBALL GOAL REFER:
8	WATER VOLLEYBALL STANCHION POST & ANCHOR REFER:
9	POOL LIFT AND ANCHOR REFER:
10	CURRENT CHANNEL ISLAND REFER:
11	CASCADE RAIN FOREST REFER:
12	BAMBOO TREE 1 REFER:
13	BAMBOO TREE 2 REFER:
14	BUTTERFLY NO 1 REFER:
15	LEAF NO 3 REFER:
16	FROG 1 REFER:
17	WATER BUG NO 3 REFER:
18	AQUADOME NO 2 REFER:
19	AQUADOME NO 1 REFER:
20	FROG SLIDE REFER:

NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

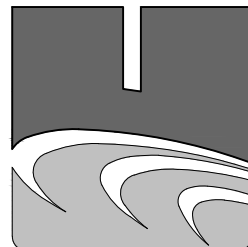
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ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL PLAN & SECTIONS

SHEET #:

AQ200



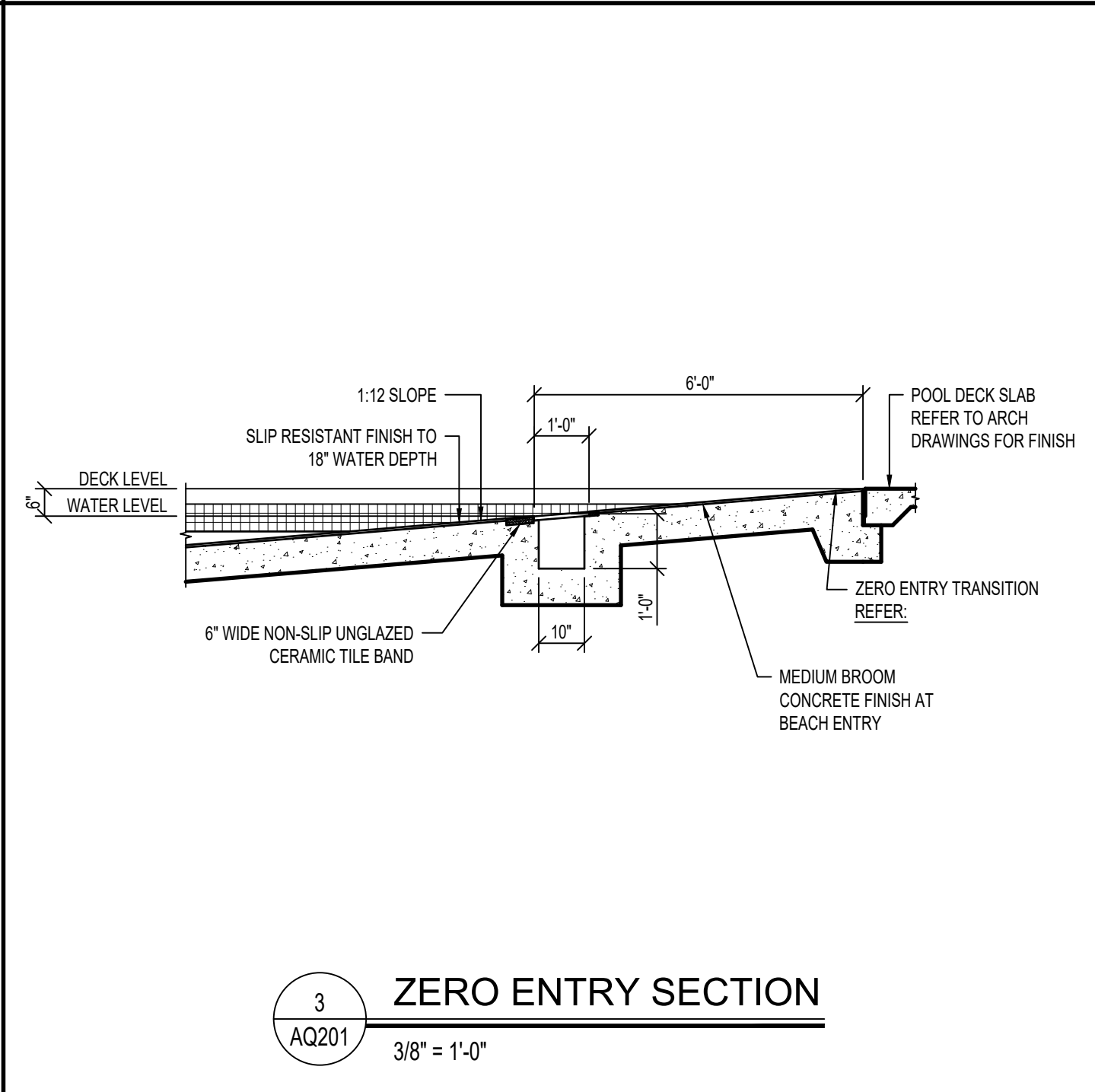
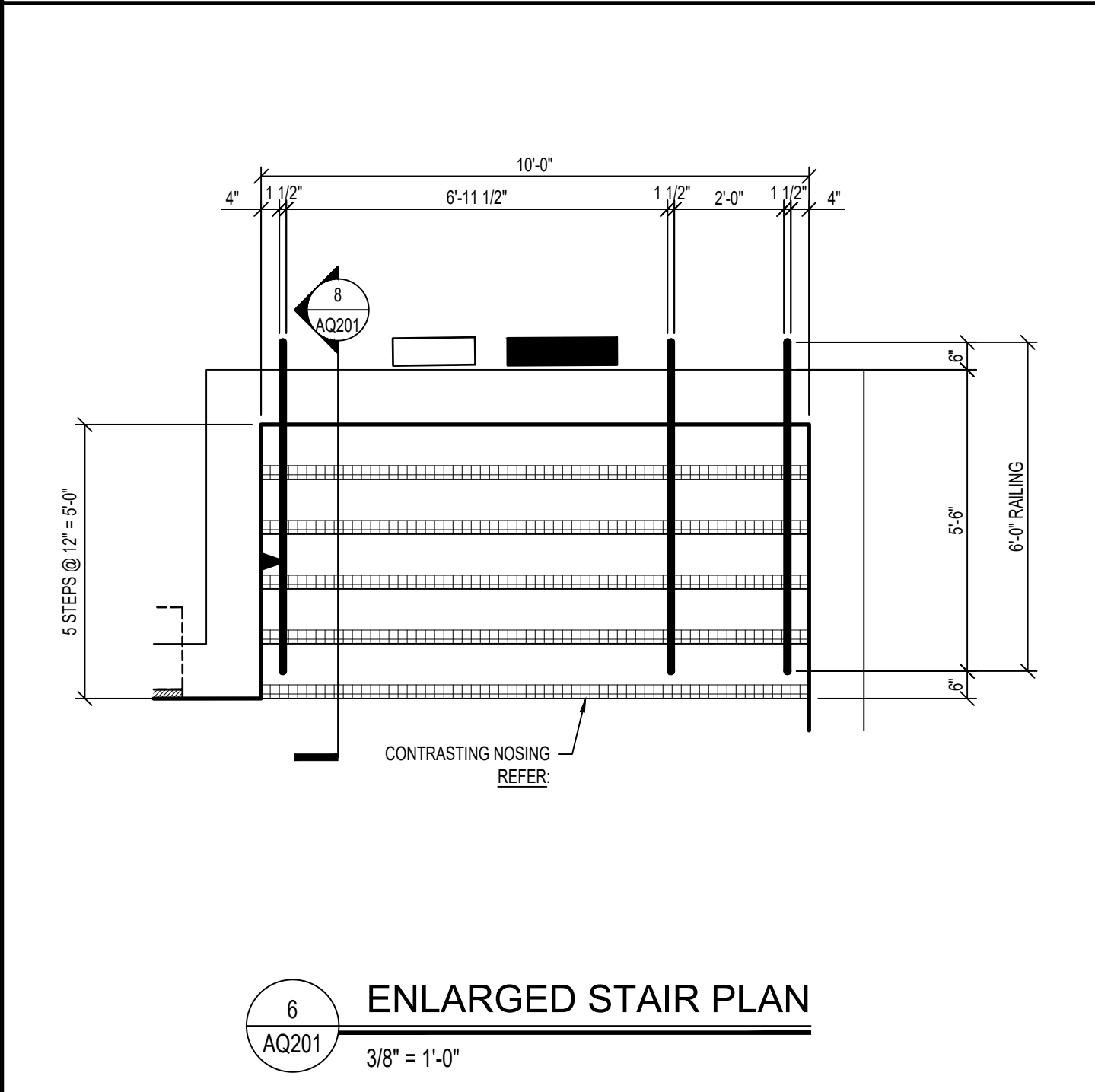
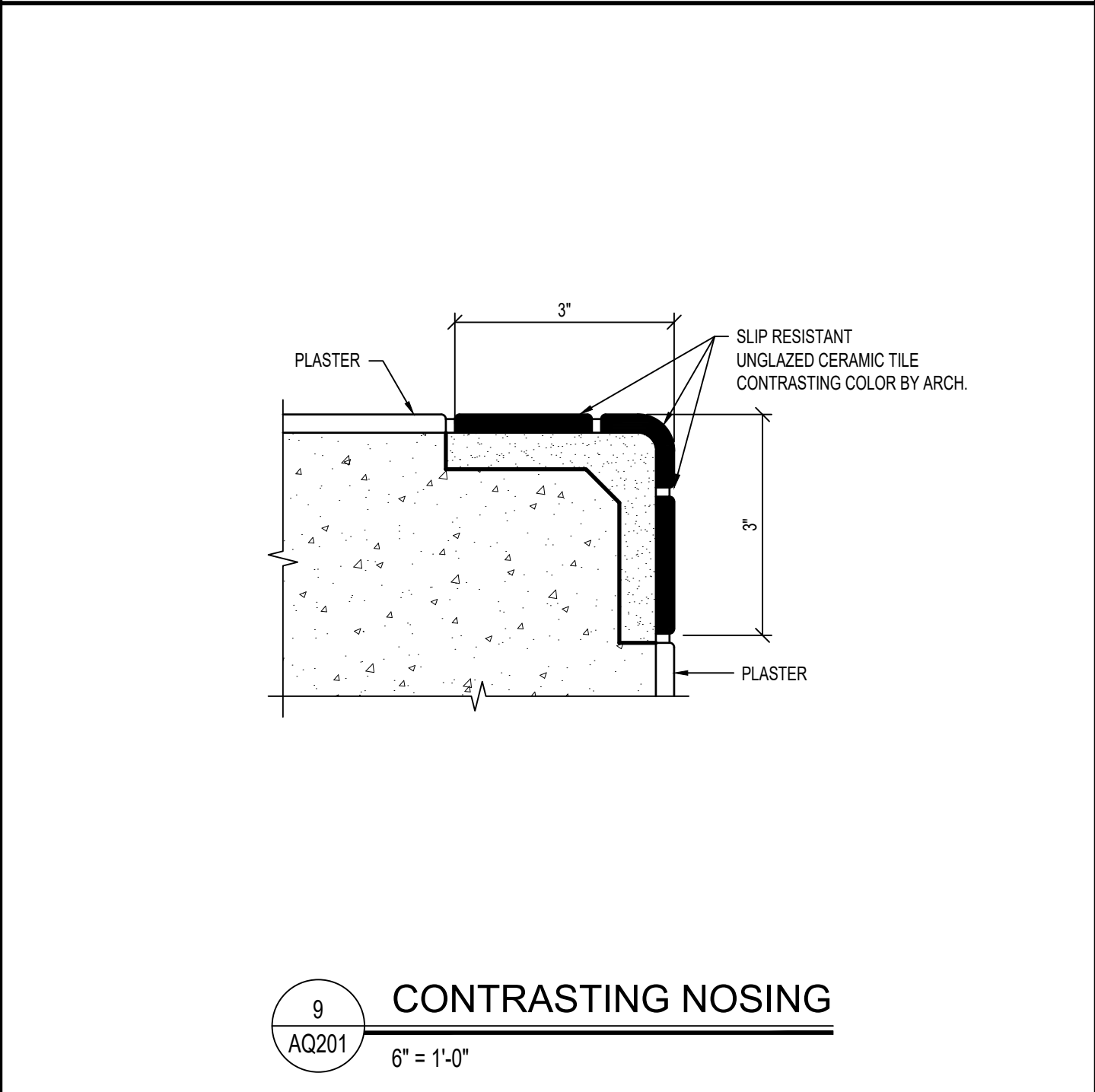
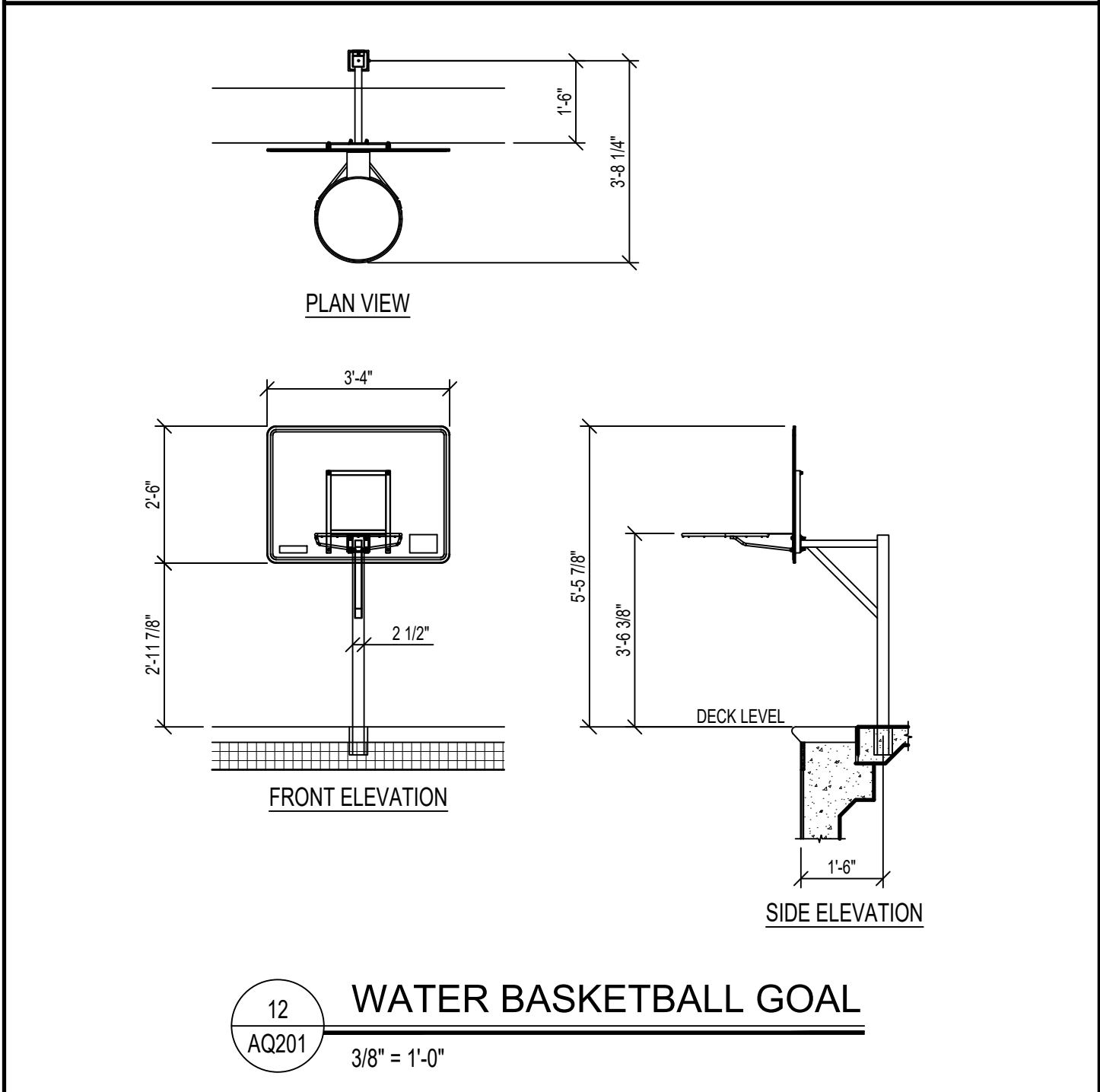
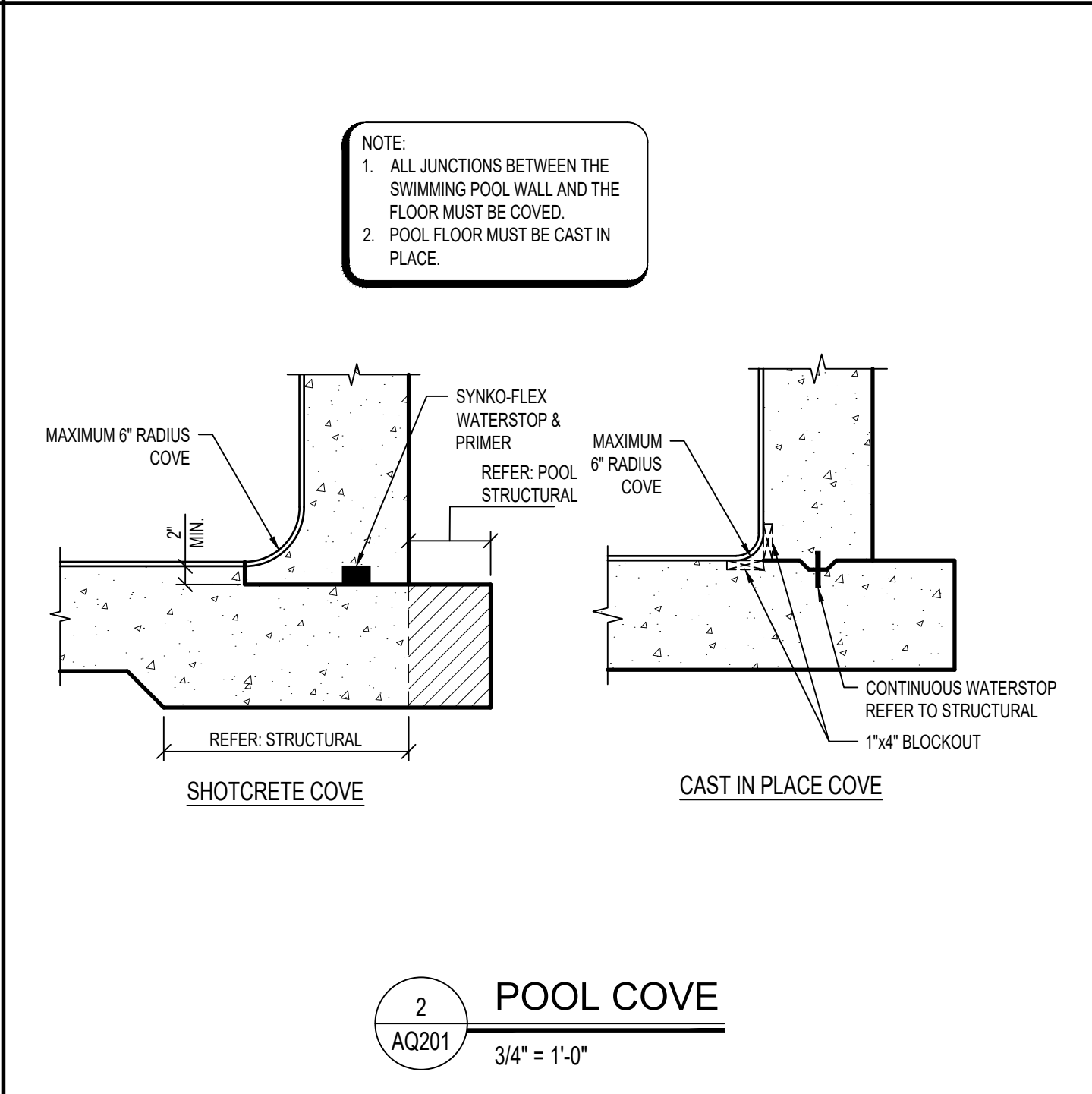
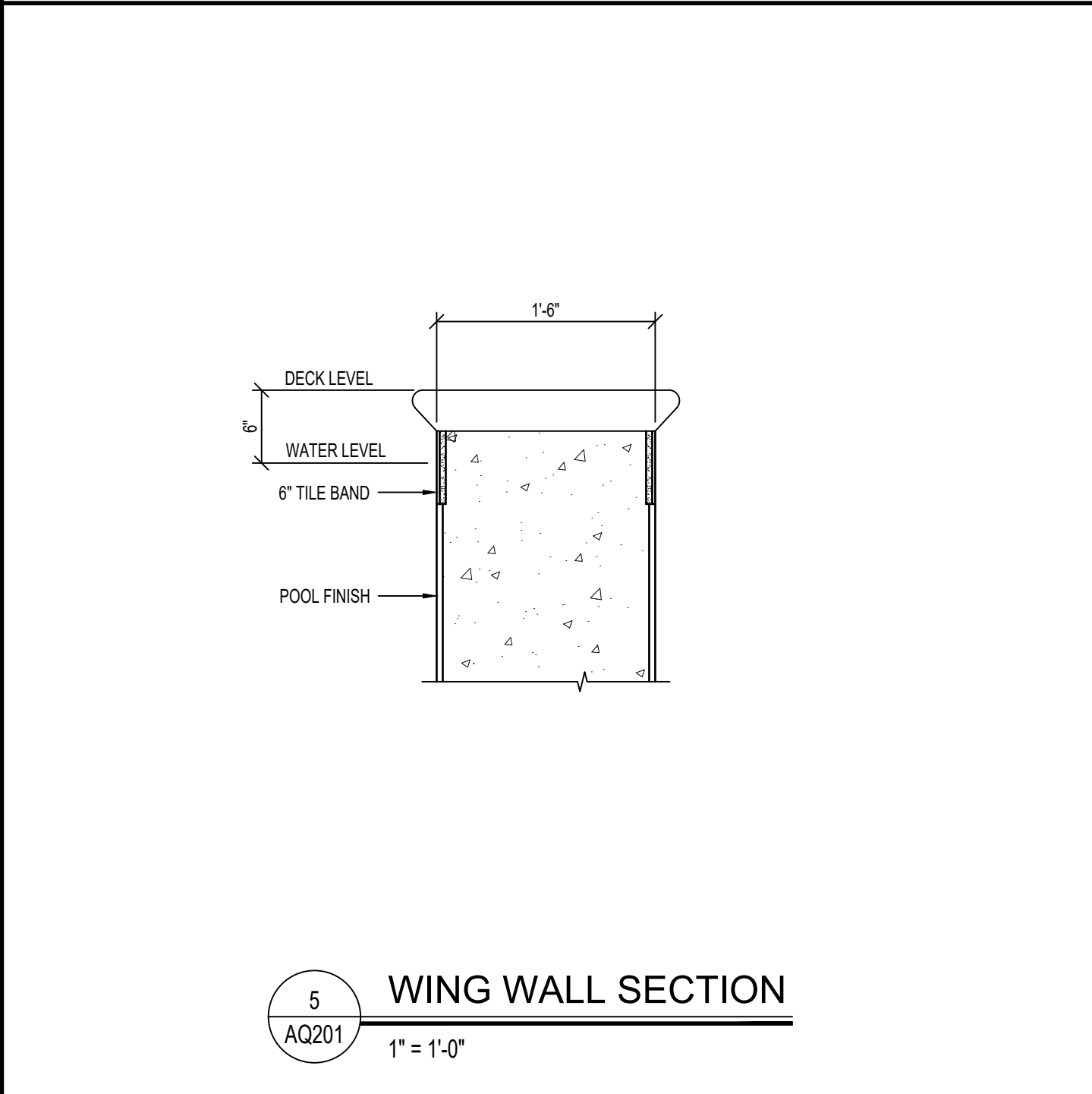
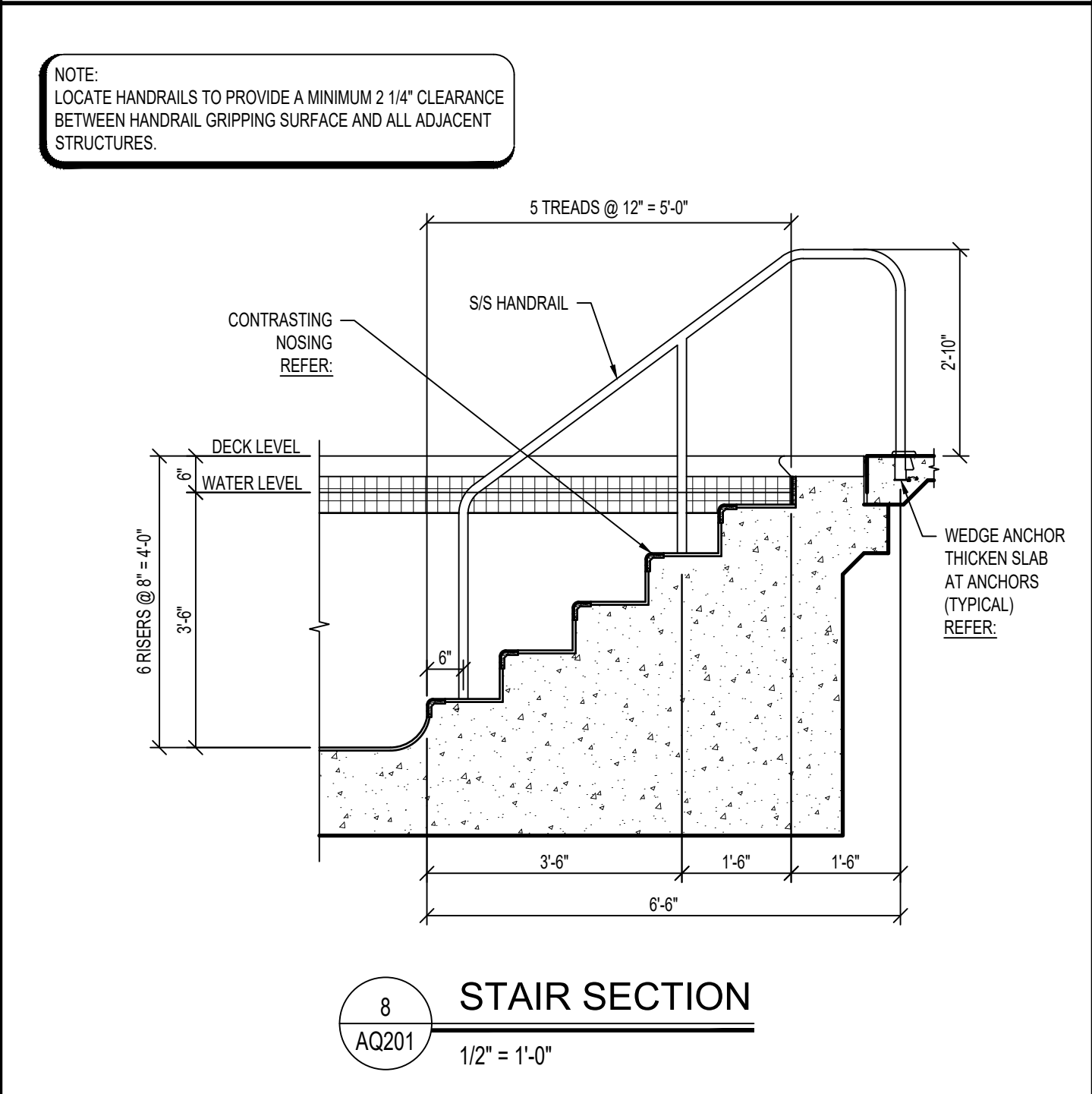
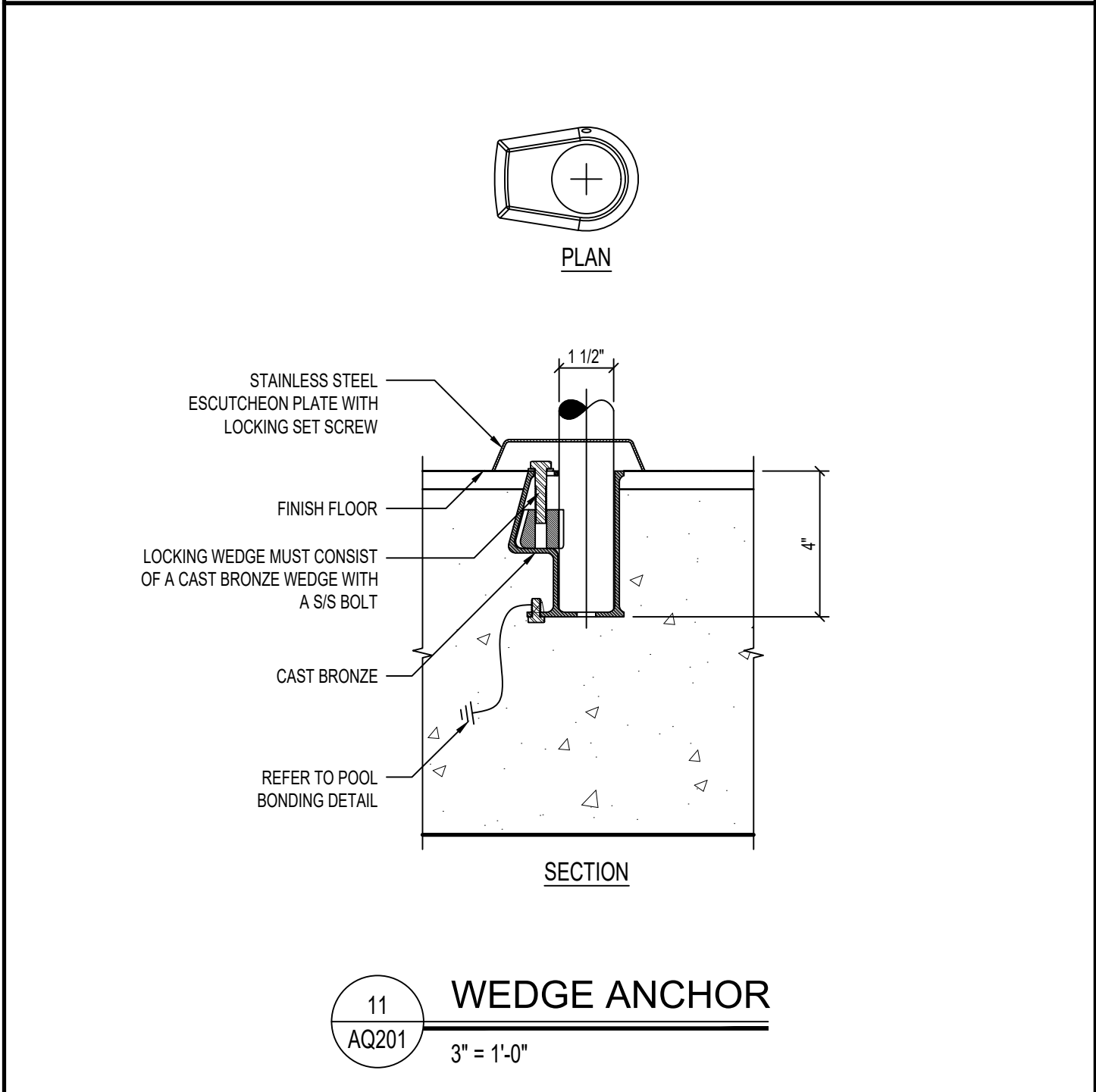
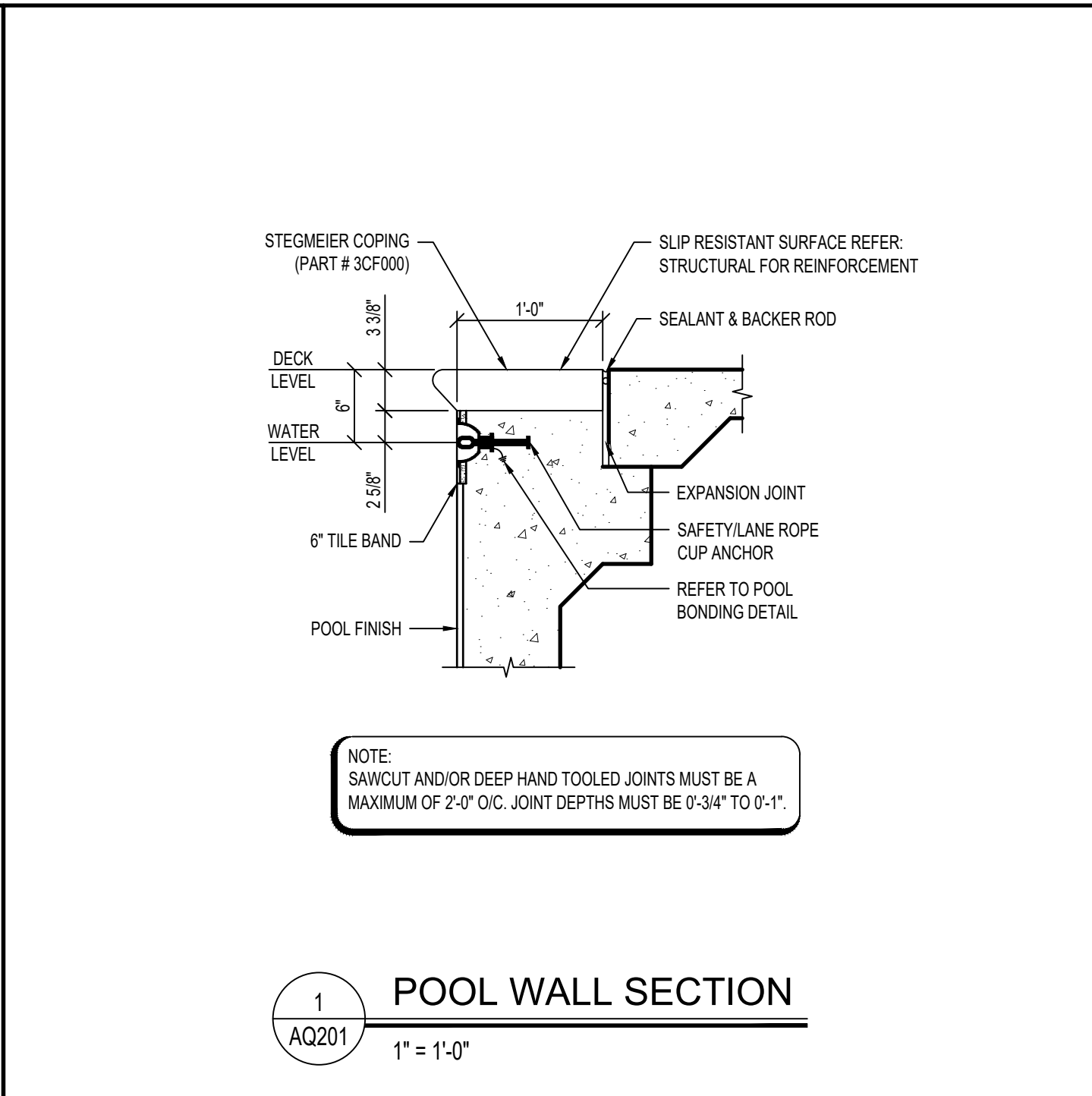
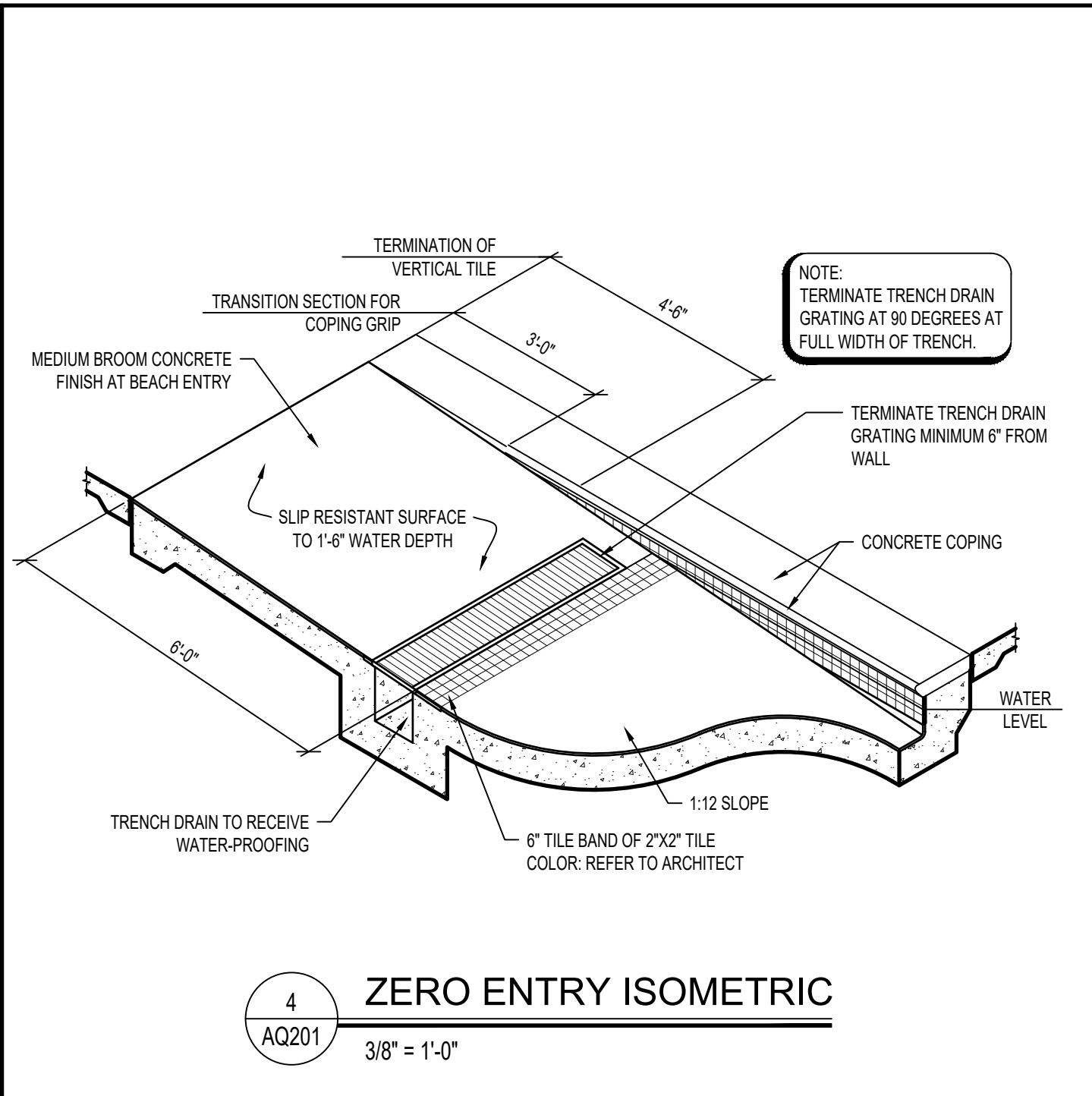
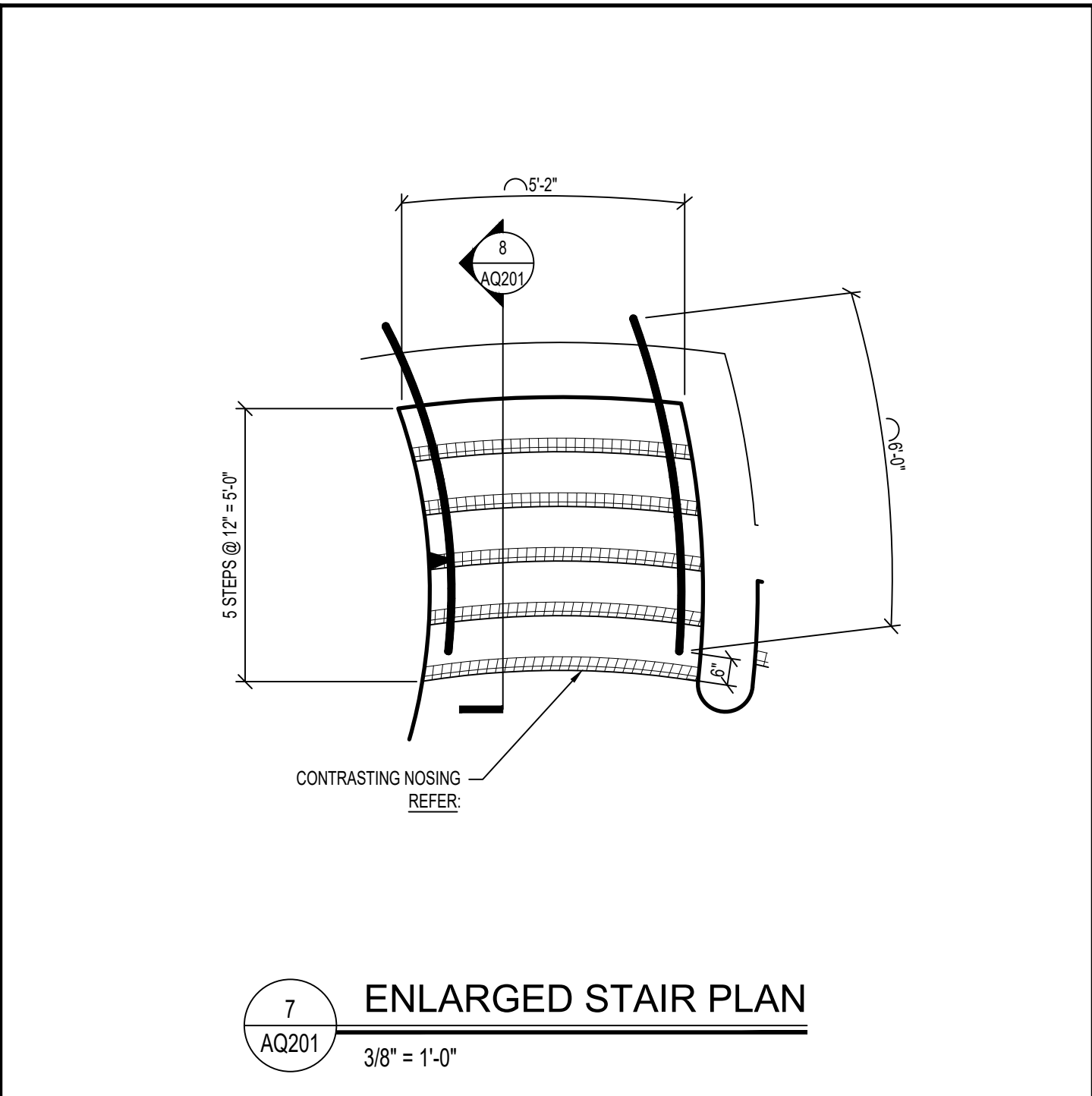
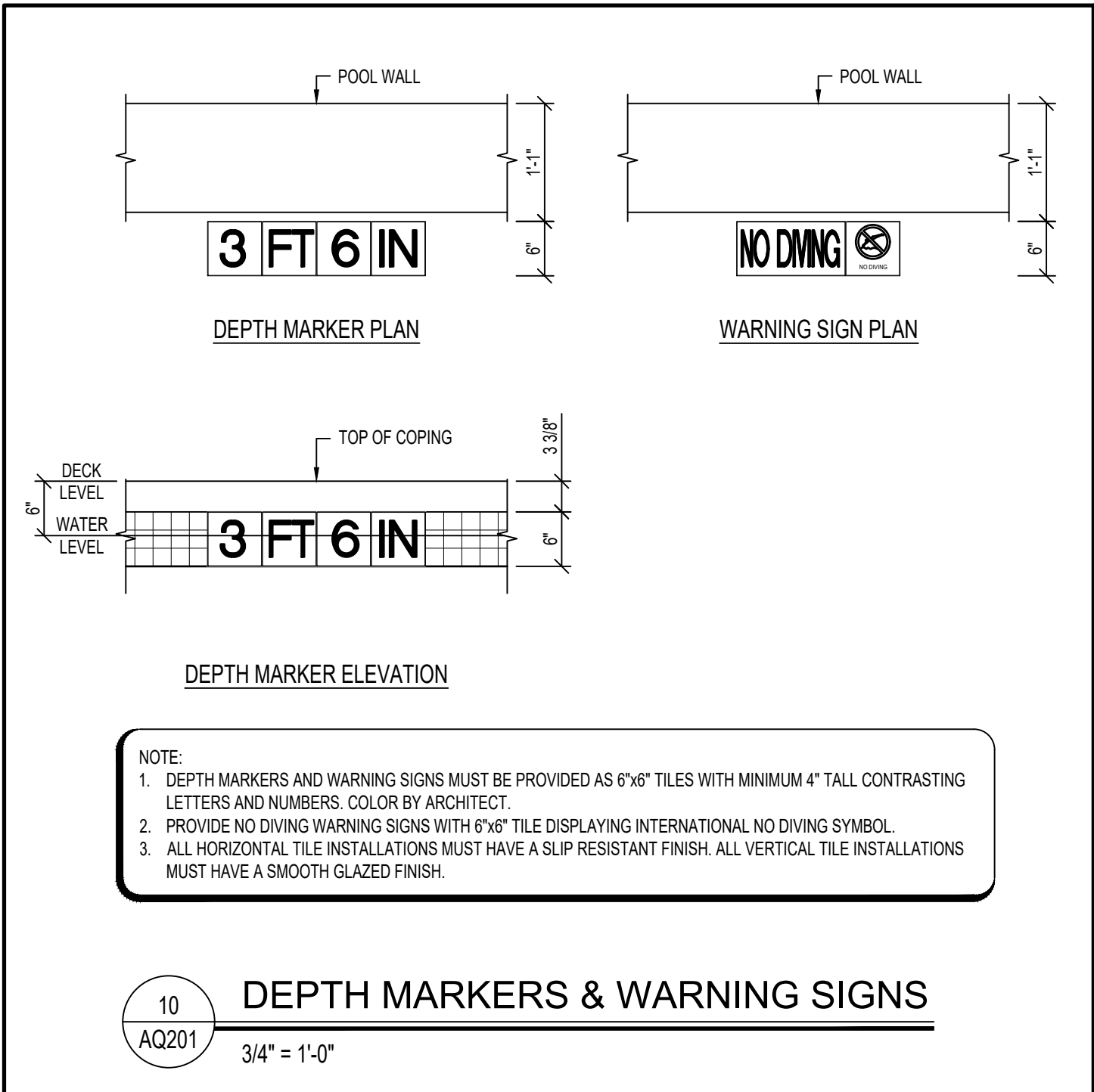
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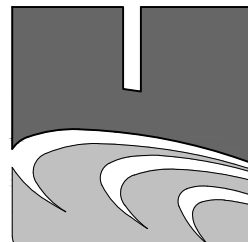
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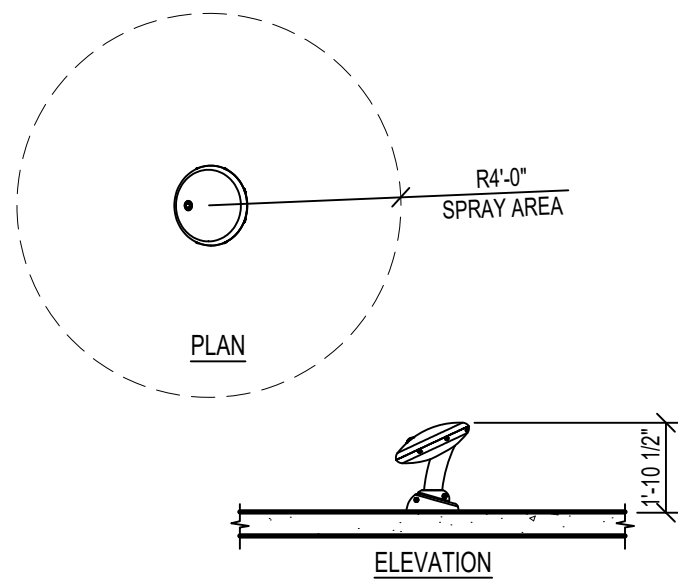
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

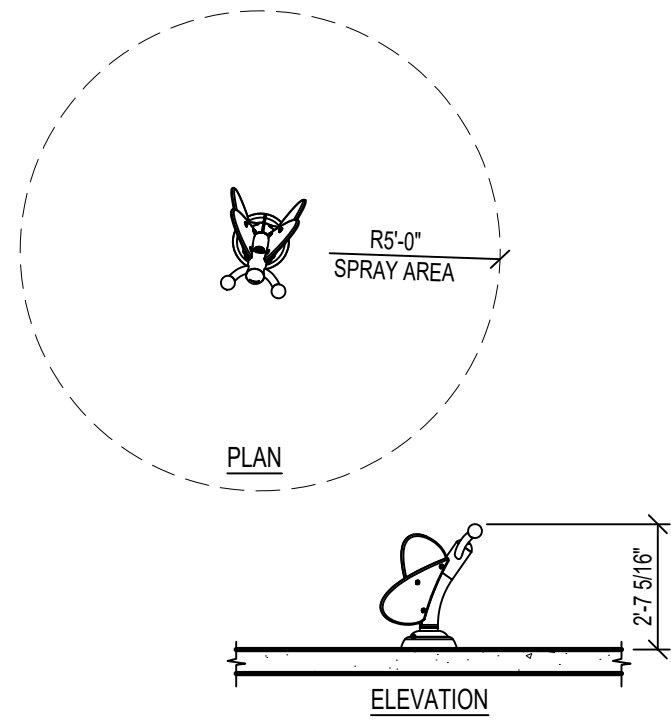
SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL DETAILS

SHEET #:

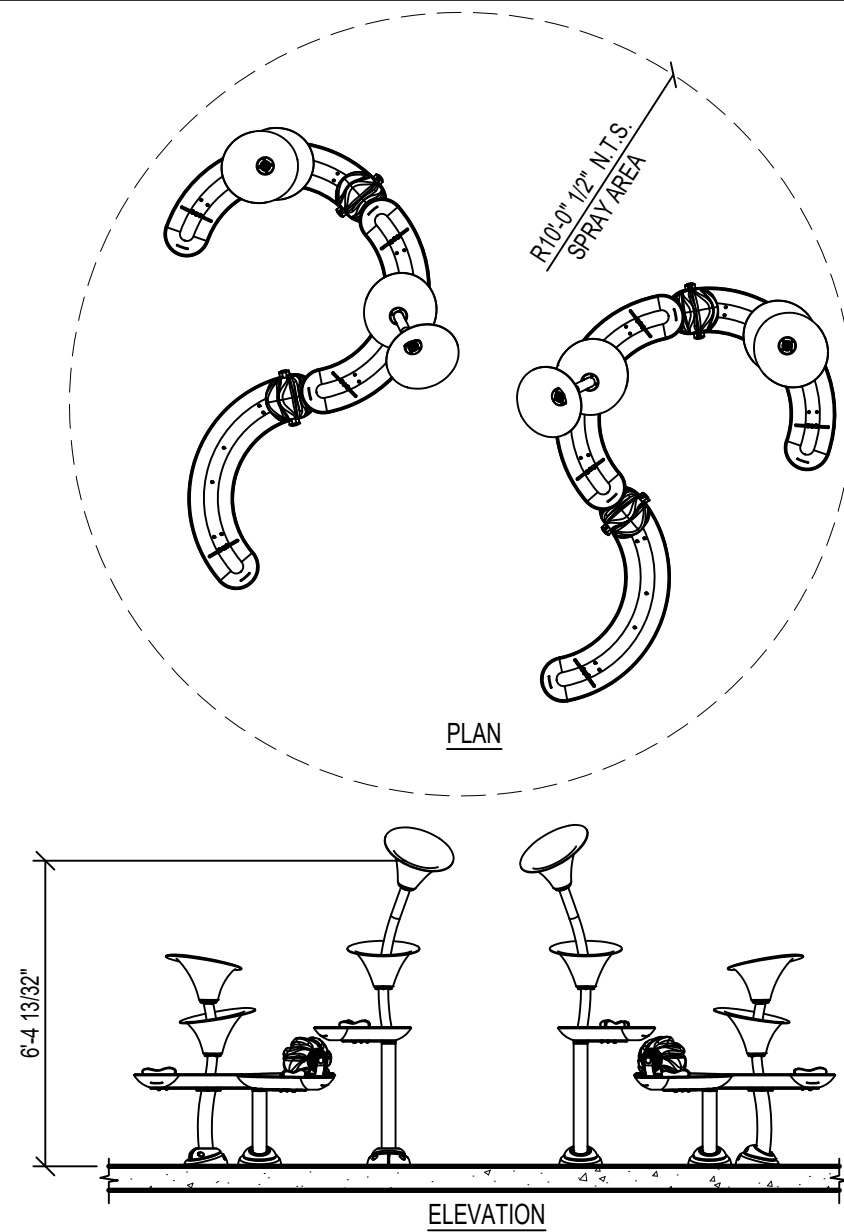
AQ201



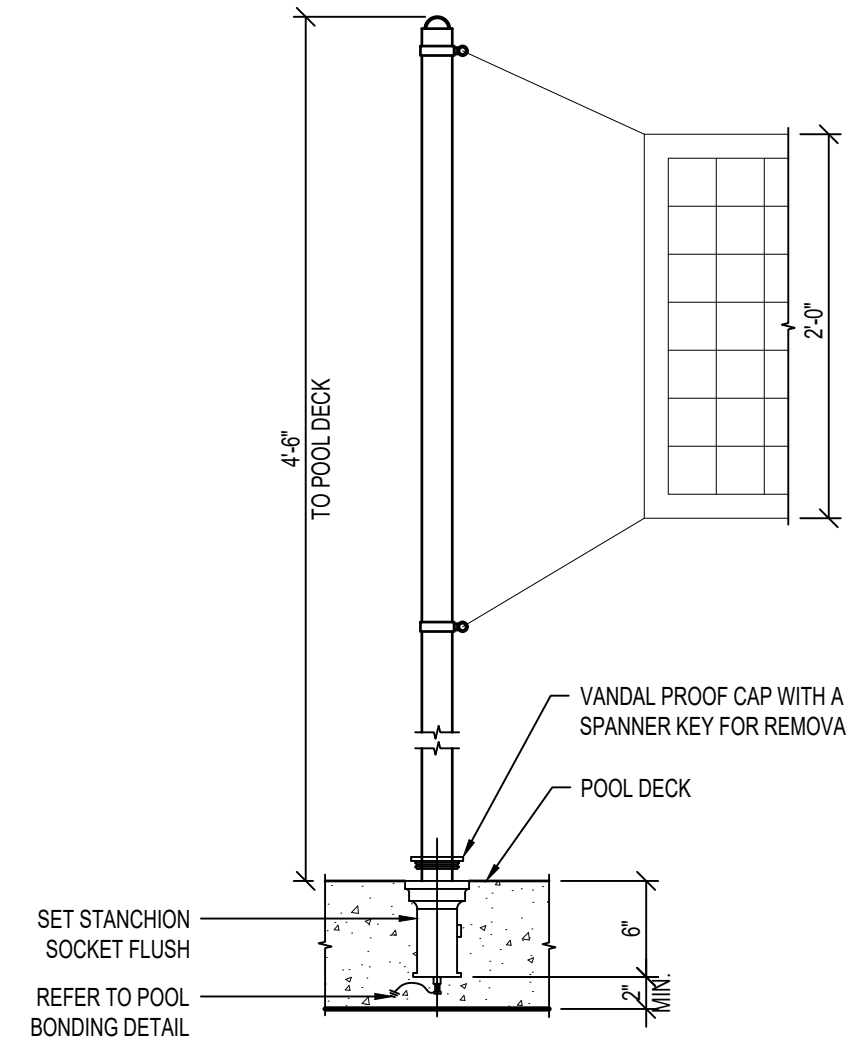
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AQ202
WATERBUG NO 3
1/4" = 1'-0"



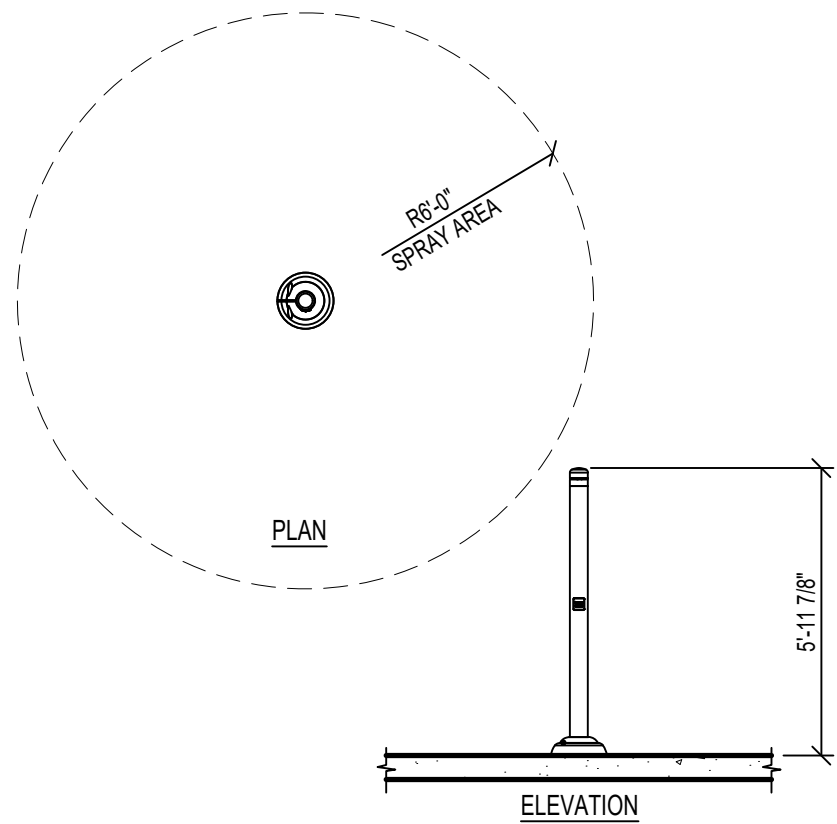
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AQ202
BUTTERFLY NO 1
1/4" = 1'-0"



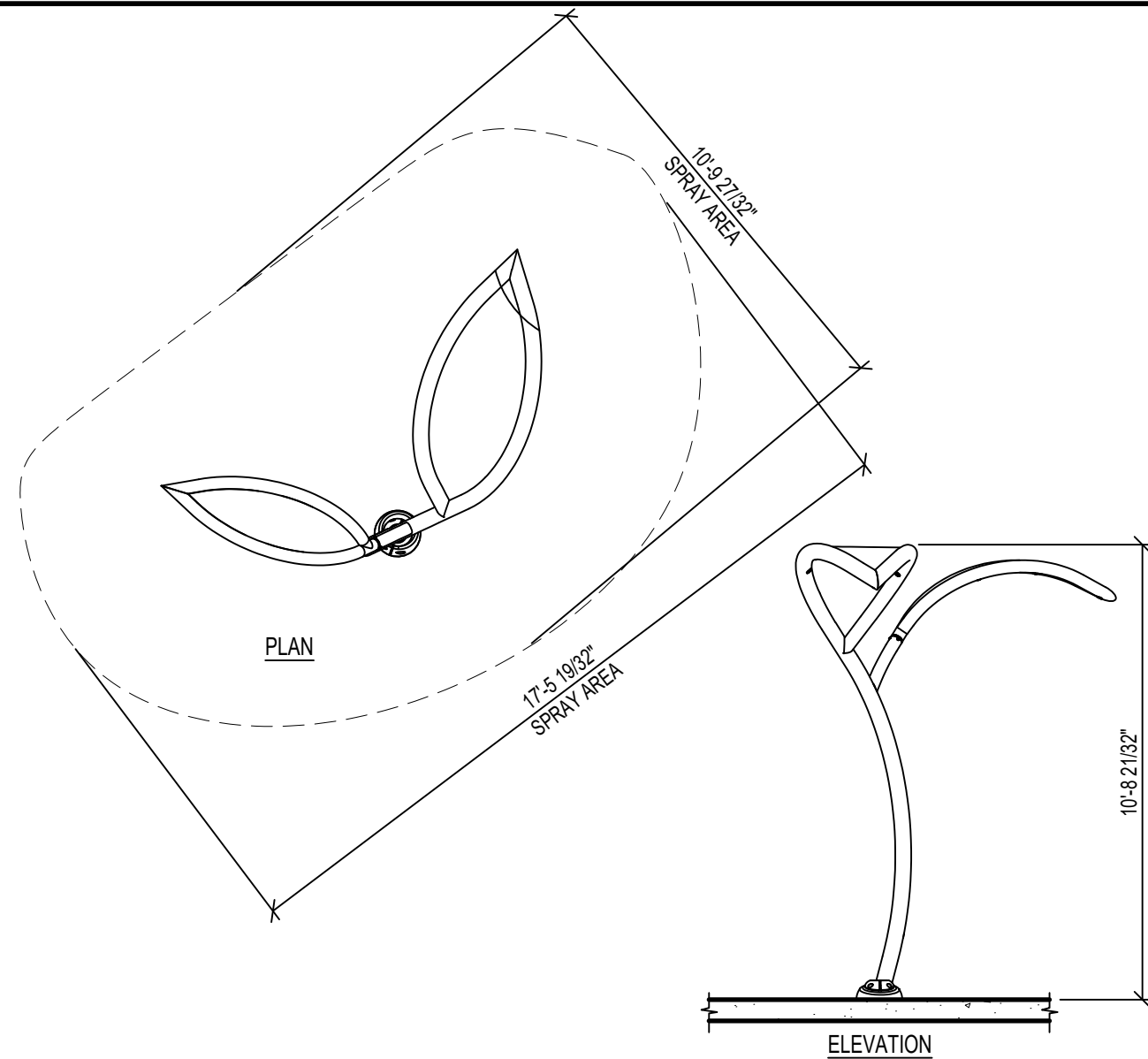
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AQ202
CASCADE RAINFOREST
1/4" = 1'-0"



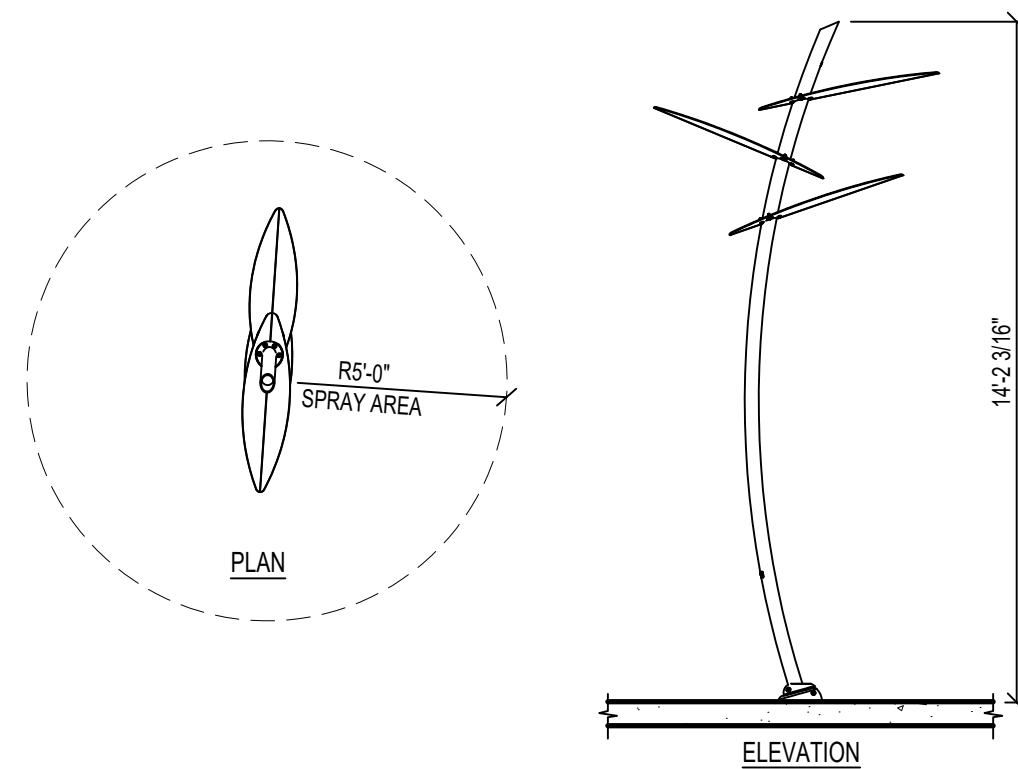
1
AQ202
WATER VOLLEYBALL STANCHION POST & ANCHOR
1 1/2" = 1'-0"



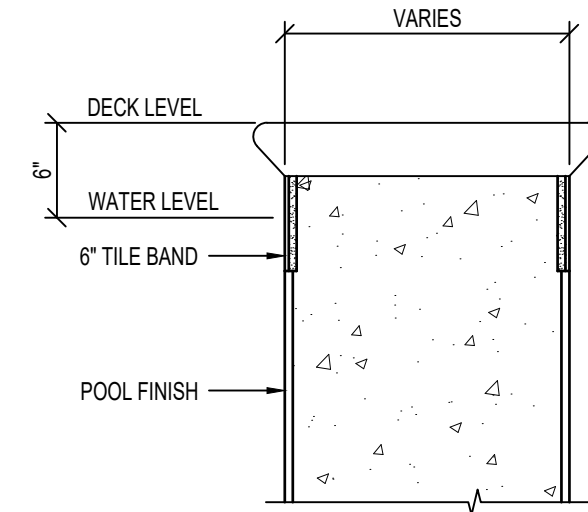
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AQ202
AQUADOME NO 2
1/4" = 1'-0"



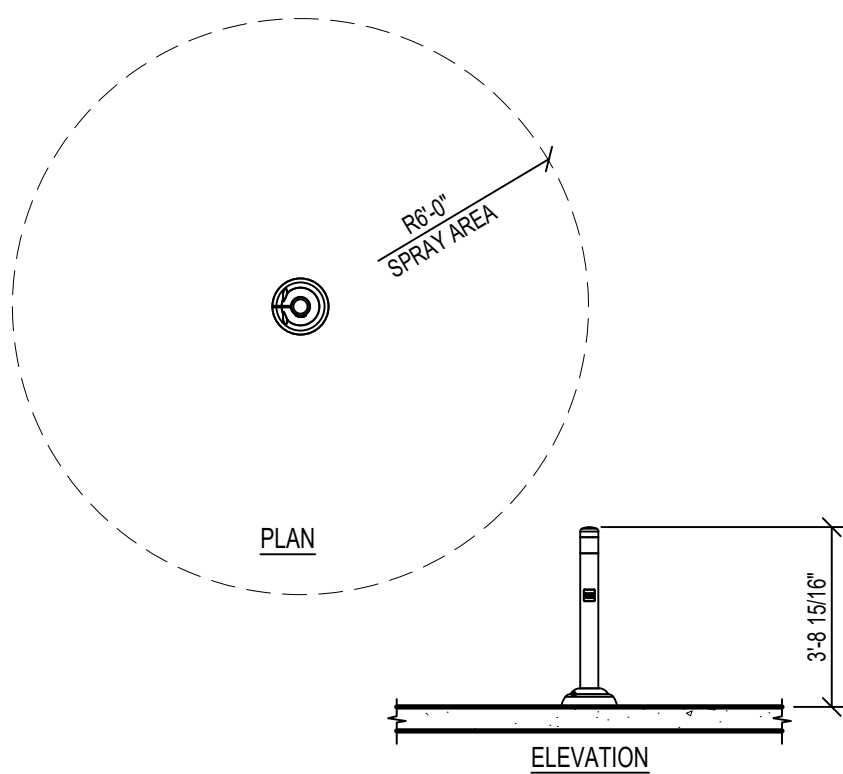
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AQ202
LEAF NO 3
1/4" = 1'-0"



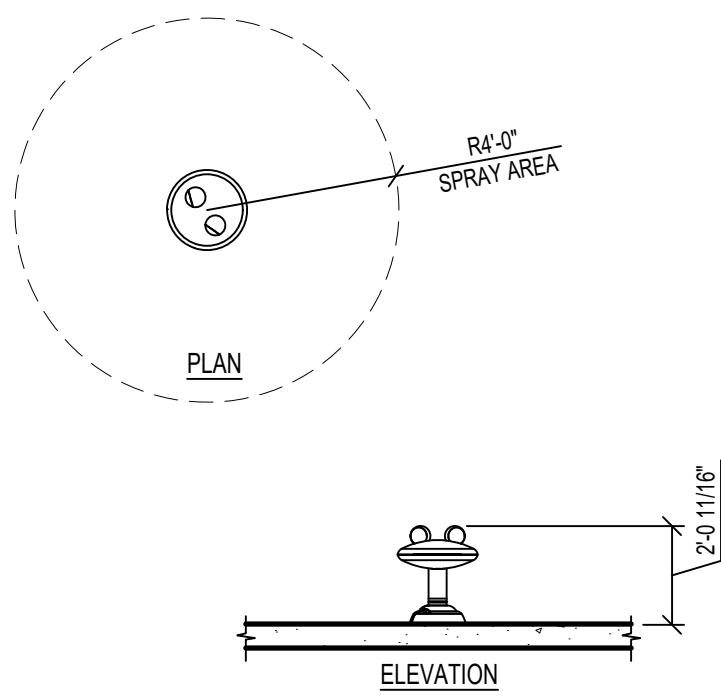
5
AQ202
BAMBOO TREE NO 1
1/4" = 1'-0"



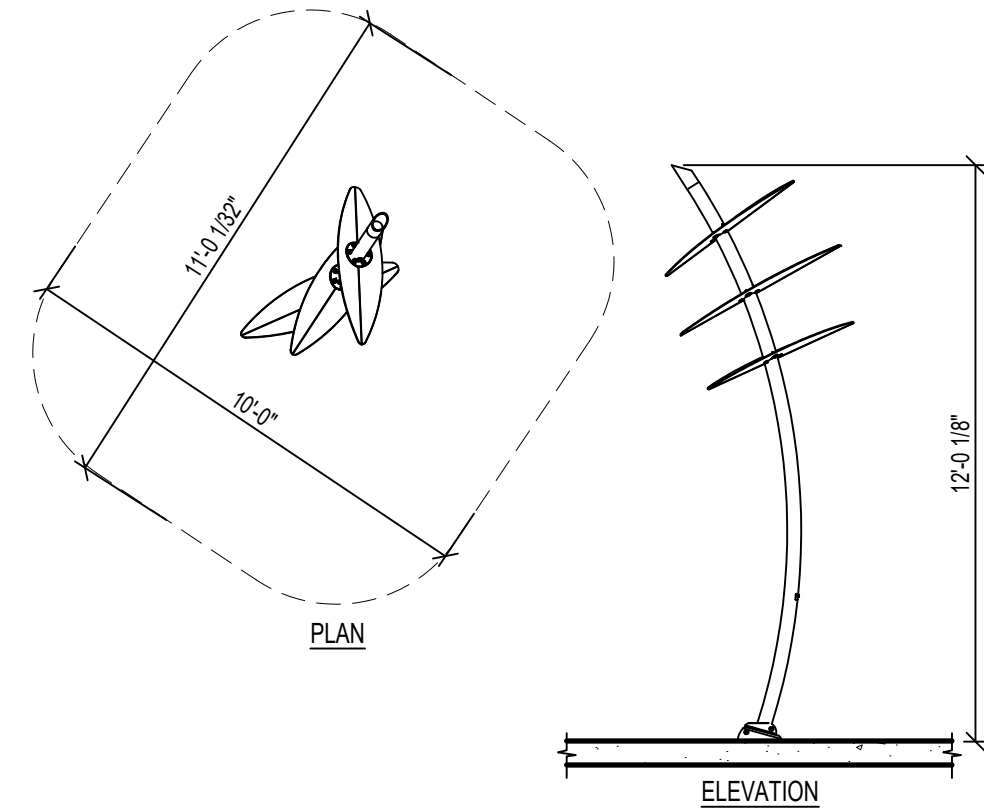
2
AQ202
CURRENT CHANNEL ISLAND
1" = 1'-0"



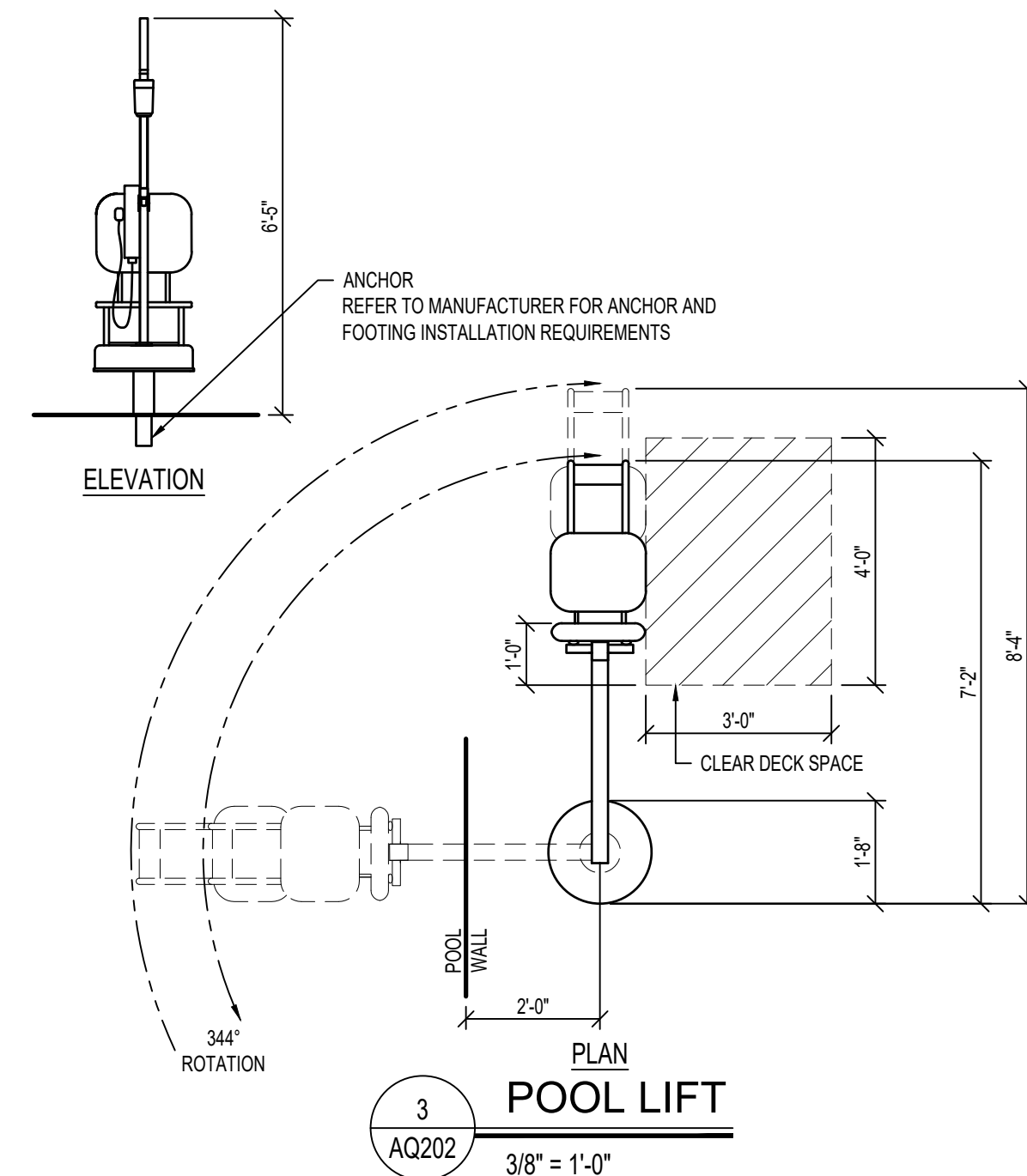
12
AQ202
AQUADOME NO 1
1/4" = 1'-0"



9
AQ202
FROG NO 1
1/4" = 1'-0"



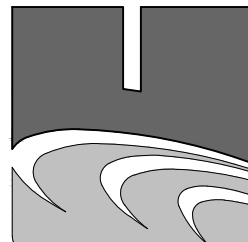
6
AQ202
BAMBOO TREE NO 2
1/4" = 1'-0"



3
AQ202
POOL LIFT
3/8" = 1'-0"



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Mountain Recreation Eagle Pool
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NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LEISURE POOL DETAILS

SHEET #:

AQ202



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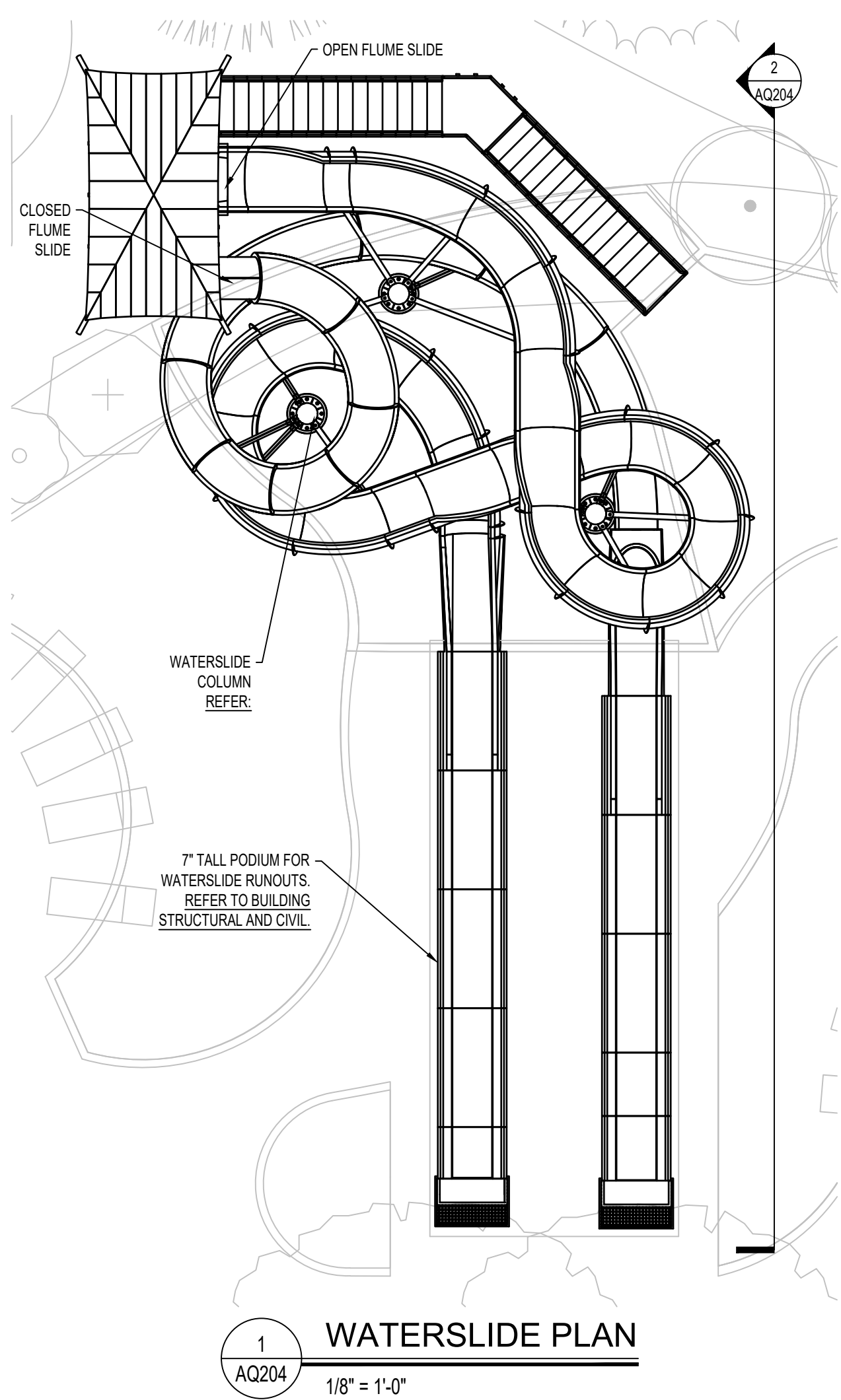
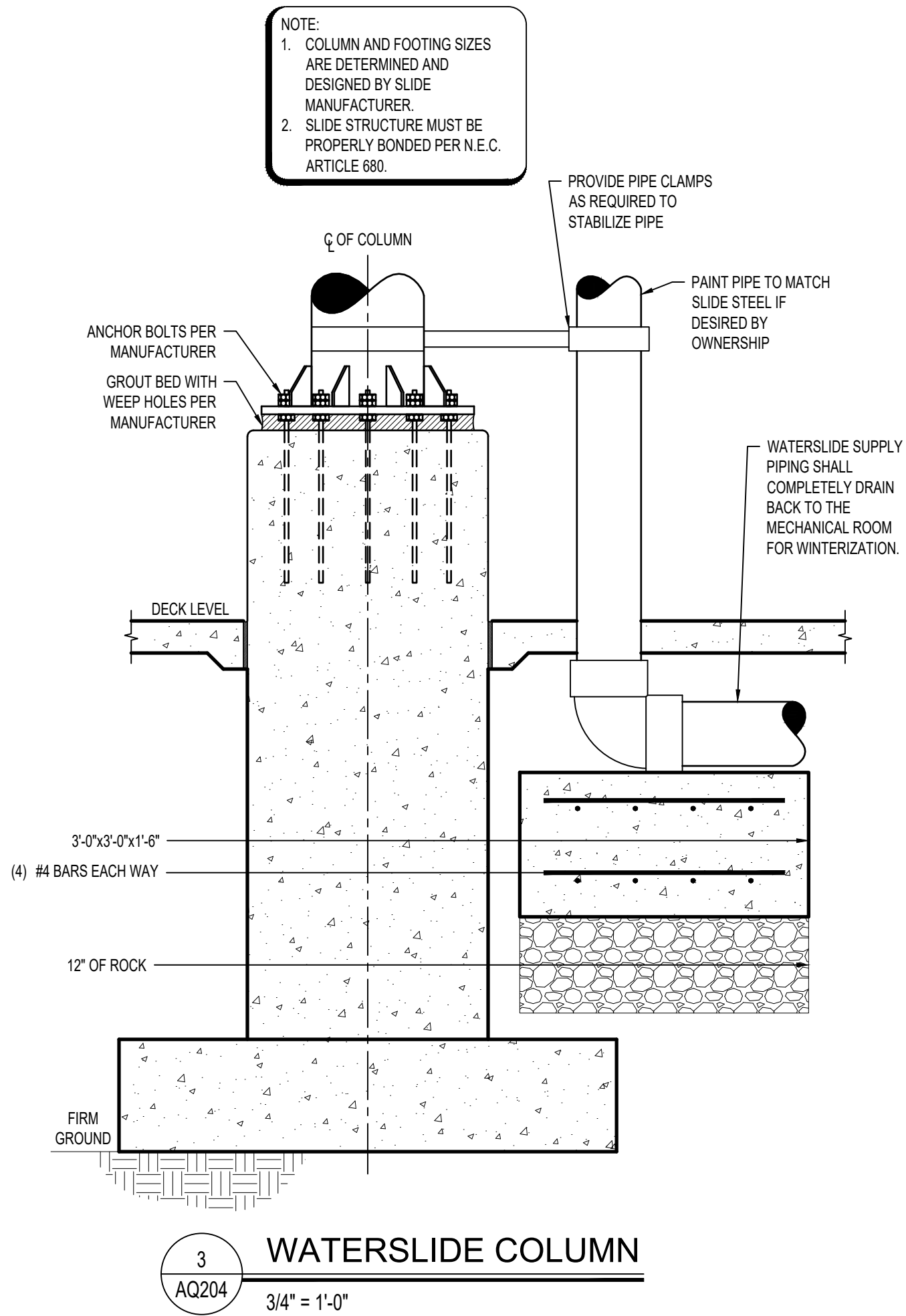
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 ISSUE DATE: MARCH 22, 2024
 PROJECT #: 23079
 TITLE: LEISURE POOL DETAILS

SHEET #

AQ203



1 FROG SLIDE
AQ203 1/4" = 1'-0"



WATERSLIDE DEFERRED APPROVAL NOTICE

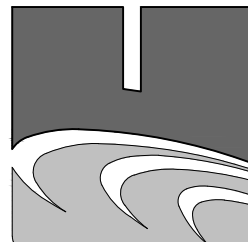
INSTALLATION OF WATERSLIDE INCLUDING FOUNDATIONS AND TOWER MUST NOT COMMENCE UNTIL DETAILED PLANS, SPECIFICATIONS, AND COMPLETE ZONE 4 SEISMIC CALCULATIONS ARE APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY. THE RESPONSIBILITY FOR AND ALL COSTS ASSOCIATED WITH OBTAINING SUCH APPROVAL MUST BE BORNE BY THE CONTRACTOR AS PART OF THE GENERAL CONSTRUCTION CONTRACT.

WATERSLIDE DESIGN DATA

POOL	OPEN FLUME	CLOSED FLUME
PLATFORM HEIGHT	17'-6"	17'-6"
WATERSLIDE LENGTH	166.16'	125.89'
RUNOUT LENGTH	42'-3"	39'-7"



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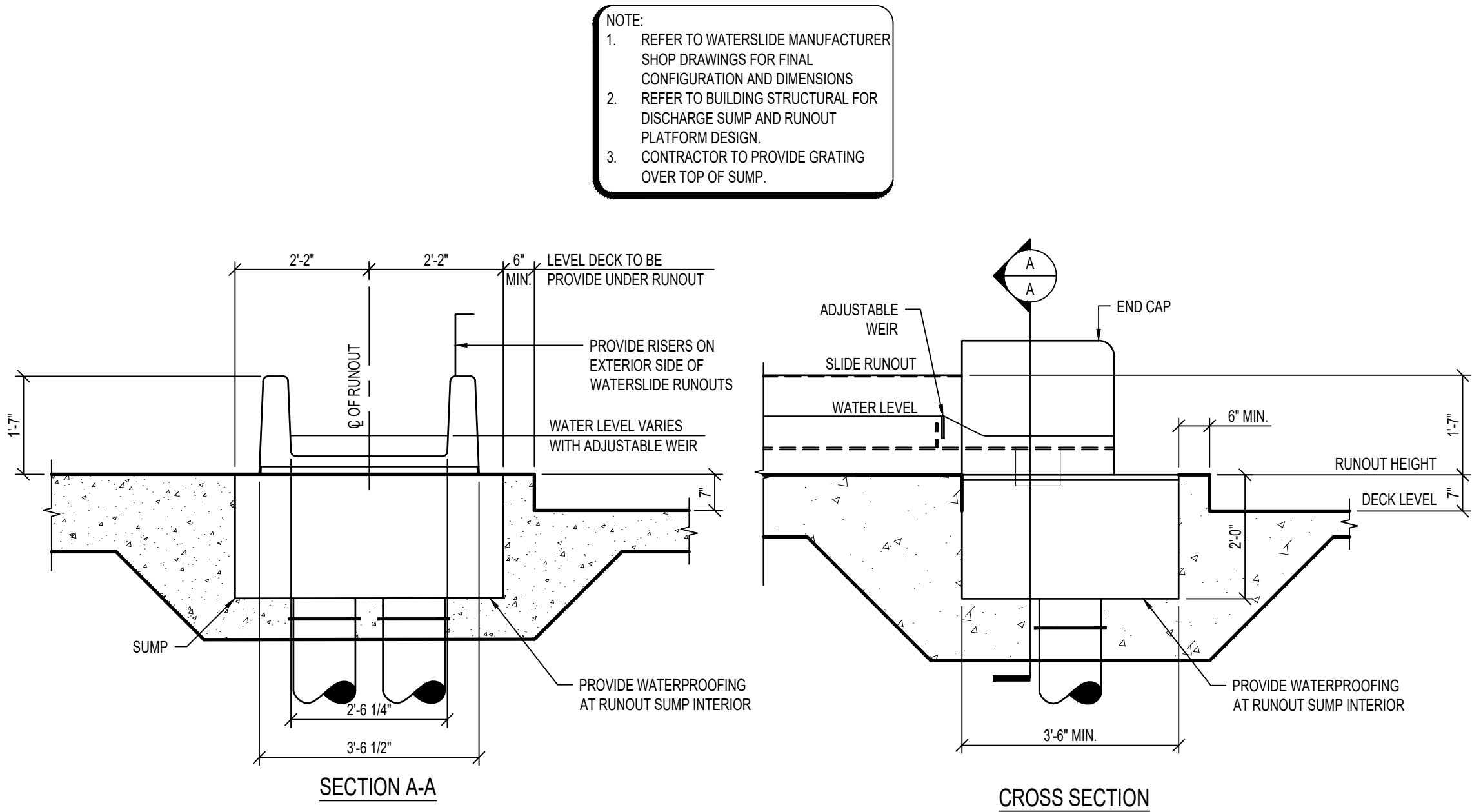
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3	03/22/2024	SITE PLAN APPLICATION 02

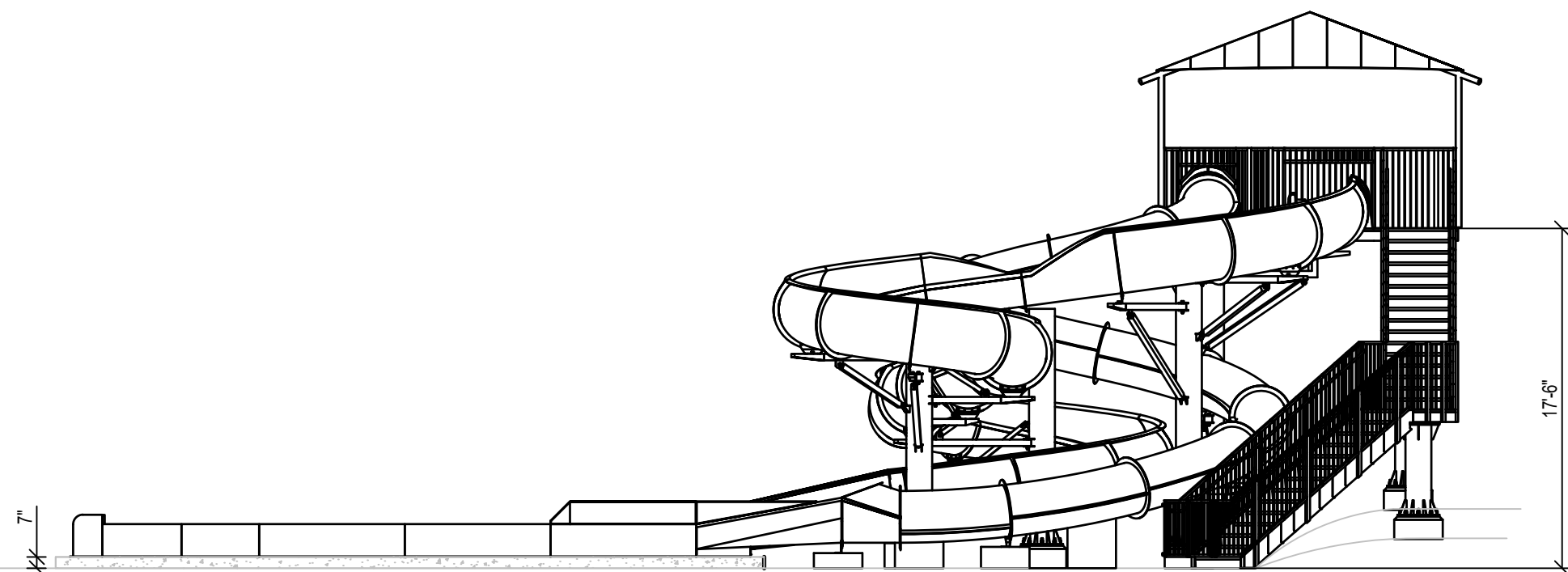
SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: WATERSLIDE PLAN,
ELEVATION & DETAILS

SHEET #:

AQ204



NOTE:
1. OVERHEAD CLEARANCE TO BOTTOM OF WATERSLIDE AND WATERSLIDE STRUCTURE MUST BE MINIMUM 8'-8" OVER ALL DECK AREAS INTENDED FOR FOOT TRAFFIC.
2. WHERE WATERSLIDE TOWER AND FLUME STRUCTURES ARE LOCATED OVER WALKABLE PATHWAYS, A BARRIER MUST BE PROVIDED WHERE VERTICAL CLEARANCE IS LESS THAN 8'-8". REFER TO ARCHITECT.
3. DESIGN OF WATERSLIDE FOOTING, PIERS, ANCHORS AND SPACING MUST BE PROVIDED BY WATERSLIDE MANUFACTURER. CALCULATIONS AND SEALED DRAWINGS MUST BE PROVIDED.



2

AQ204

1/8" = 1'-0"

WATERSLIDE ELEVATION

PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERFLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL

PIPING LEGEND				
LEGEND	QTY.	ITEM	MAKE	MODEL
LAP POOL				
	1	WALL INLET REFER:	HAYWARD	SP1421D & SP1022S
	18	FLOOR INLET REFER:	STA-RITE	8417-0200 (BLACK)
	1	SIGHT SUMP REFER:	POURALID	SQ201 PAL FROSTED
	1	WATER LEVEL CONTROLLER REFER:	AQUATICONTROL TECHNOLOGY	ELC-810-XX-DW-000
	12	SKIMMER REFER:	STA-RITE	U-3 #08650-1403 (WHITE)
	2	MAIN DRAIN REFER:	REFER TO MAIN DRAIN SCHEDULE	
RECREATION POOL				
	2	WALL INLET REFER:	HAYWARD	SP1421D & SP1022S
	22	FLOOR INLET REFER:	STA-RITE	8417-0000 (WHITE)
	14	SKIMMER REFER:	STA-RITE	U-3 #08650-1403 (WHITE)
	4	MAIN DRAIN REFER:	REFER TO MAIN DRAIN SCHEDULE	
	2	CURRENT CHANNEL NOZZLE REFER:	FIELD FABRICATED	
	3	VALVE BOX REFER:	QUAZITE	PC2436BA18 & PC2436CA00
	2	TRENCH SUMP REFER:	FIELD FABRICATED	
	1	WATER LEVEL CONTROLLER REFER:	AQUATICONTROL TECHNOLOGY	ELC-810-XX-DW-000
	2	WATERSLIDE WALL GRATES	NEPTUNE BENSON	MLD-FG-1836
COMBINED				
-----	N/A	BELOW GRADE PIPING	CHEMTROL	SCH 40 PVC, SCH 80 PVC

GENERAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE. 2. PIPE SIZES INDICATED ARE NOMINAL, I.P.S. 3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING MUST BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB. 4. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING. 5. ALL PIPING WORK MUST BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS MUST BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. 6. ALL PIPING INDICATED MUST BE CONSIDERED DIAGRAMMATIC. 7. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL MUST BE CONCRETE ENCASED SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED. <u>REFER:</u> 8. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING MUST BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR MUST REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE. 9. ALL DIMENSIONS ARE INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES. 10. THE CHEMICAL SENSOR LINE MUST BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SUCTION. 11. ALL FLOOR INLETS MUST BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS. 12. ALL PIPE TEES MUST BE SIZED FOR LARGEST PIPE CONNECTION. POOL PIPING WINTERIZATION 1. ALL POOL PIPING MUST HAVE THE CAPABILITY TO BE DRAINED FOR WINTERIZATION. 2. <u>ALL POOL SUCTION AND GRAVITY PIPING MUST BE INSTALLED WITH A CONSTANT SLOPE TO THE MAIN DRAINS.</u> 3. ALL POOL RETURN PIPING MUST HAVE THE ABILITY TO COMPLETELY DRAIN TO THE 2" WINTERIZATION LINE AS SHOWN ON THE DRAWINGS. 4. <u>ALL POOL SUCTION AND RETURN PIPING MUST SLOPE BACK TO THE POOL MECHANICAL ROOM. A WINTERIZATION TAP AND VALVE MUST BE PROVIDED ON PIPING ALLOWING THE ABILITY FOR ALL PIPING TO BE COMPLETELY DRAINED.</u> 5. <u>BLOW OUT ALL PIPES BY MEANS OF AN AIR BLOWER AND A WINTERIZATION TAP. CAP ALL PIPES. FOR ADDED PROTECTION AGAINST FREEZING PIPES, THE PIPES CAN BE FILLED WITH RV ANTI-FREEZE. <u>REFER:</u></u>

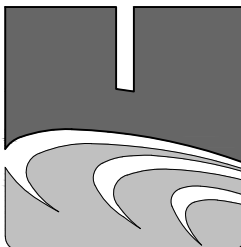
ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR & LINT		NOTES
									MAKE	SIZE	
PP1	LAP POOL RECIRCULATION PUMP REFER	GRISWOLD 850 SERIES	6X5-14T	6"X6"	550	85	25	5.91	MERMADE	8"X6"	1,234, 6.9,10
PP2	OPEN FLUME WATERSLIDE PUMP REFER	GRISWOLD 850 SERIES	8X6-10	8"X6"	1,000	55	20	8.43	MERMADE	10"X8"	1,234, 5,7,8,9
PP3	CLOSED FLUME WATERSLIDE PUMP REFER	GRISWOLD 850 SERIES	5X4-10	5"X4"	500	55	10	6.10	MERMADE	8"X5"	1,234, 5,7,8,9
PP4	RECREATION POOL CURRENT CHANNEL PROPULSION PUMP REFER	GRISWOLD 850 SERIES	8X6-10	8"X6"	775	40	15	8.02	MERMADE	10"X8"	1,234, 7,8,9
PP5	RECREATION POOL RECIRCULATION PUMP REFER	GRISWOLD 850 SERIES	6X5-14T	6"X5"	675	85	25	6.01	MERMADE	8"X6"	1,234, 6,9,10
PP6	RECREATION SPRAY FEATURE PUMP REFER	PENTAIR WHISPERFLO XF	XFK-6	2.5"X2.5"	125	55	2	SELF - PRIMING	INTEGRAL	N/A	1,234, 7,8,9

NOTE:

1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN.
2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI.
4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM BALDOR RELIANCE TEFC MOTOR.
5. PROVIDE WITH CHECK VALVE.
6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS
7. PROVIDE VARIABLE FREQUENCY DRIVE.
8. PROVIDE REMOTE PUMP START.
9. PROVIDE EMERGENCY STOP.
10. A SINGLE SPARE RECIRCULATION PUMP AND 25 HP 1750 RPM MOTOR SHALL BE PROVIDED THAT CAN BE USED AT EITHER POOL.

[illegible]

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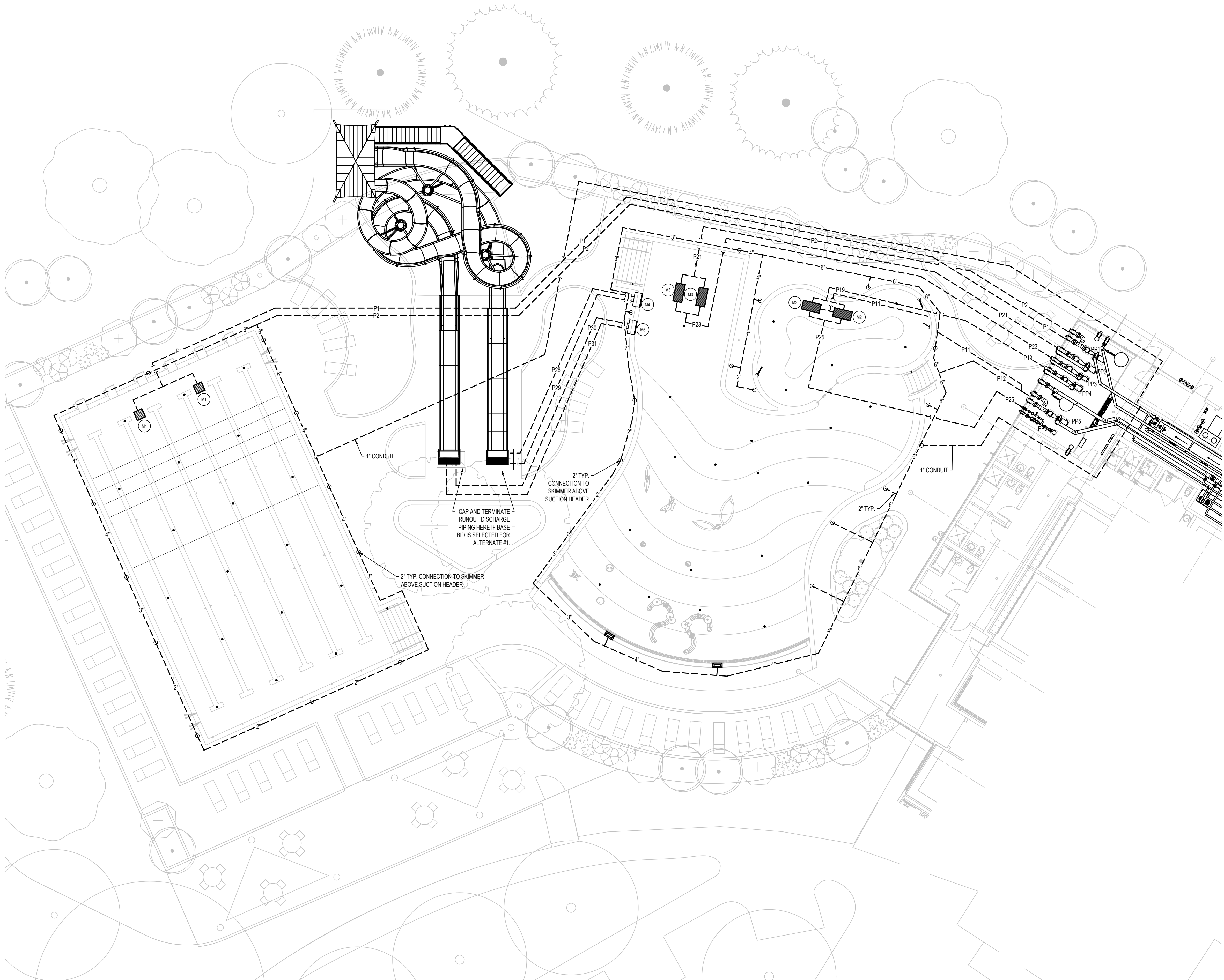
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: AS NOTED
 ISSUE DATE: MARCH 22, 2024
 PROJECT #: 23079
 TITLE: POOL PIPING NOTES & SCHEDULES

SHEET #

AQ400



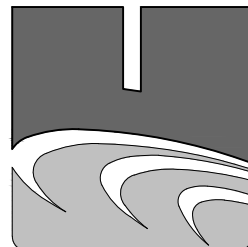
1
AQ401
3/32" = 1'-0"

POOL SUCTION PIPING PLAN

PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	8" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERFLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL



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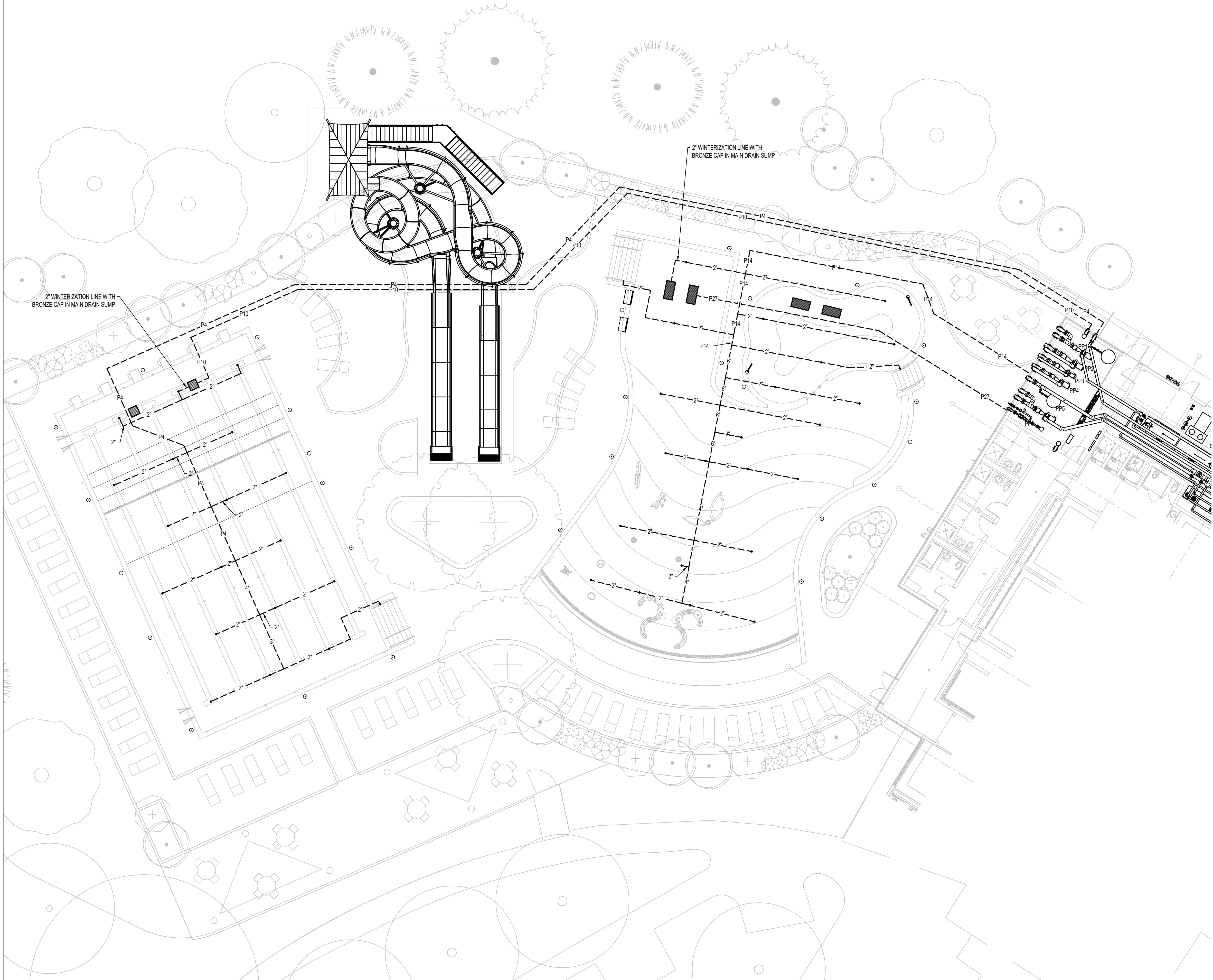
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NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: POOL SUCTION PIPING PLAN

SHEET #:

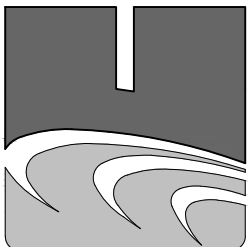
AQ401



PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	8" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERFLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL



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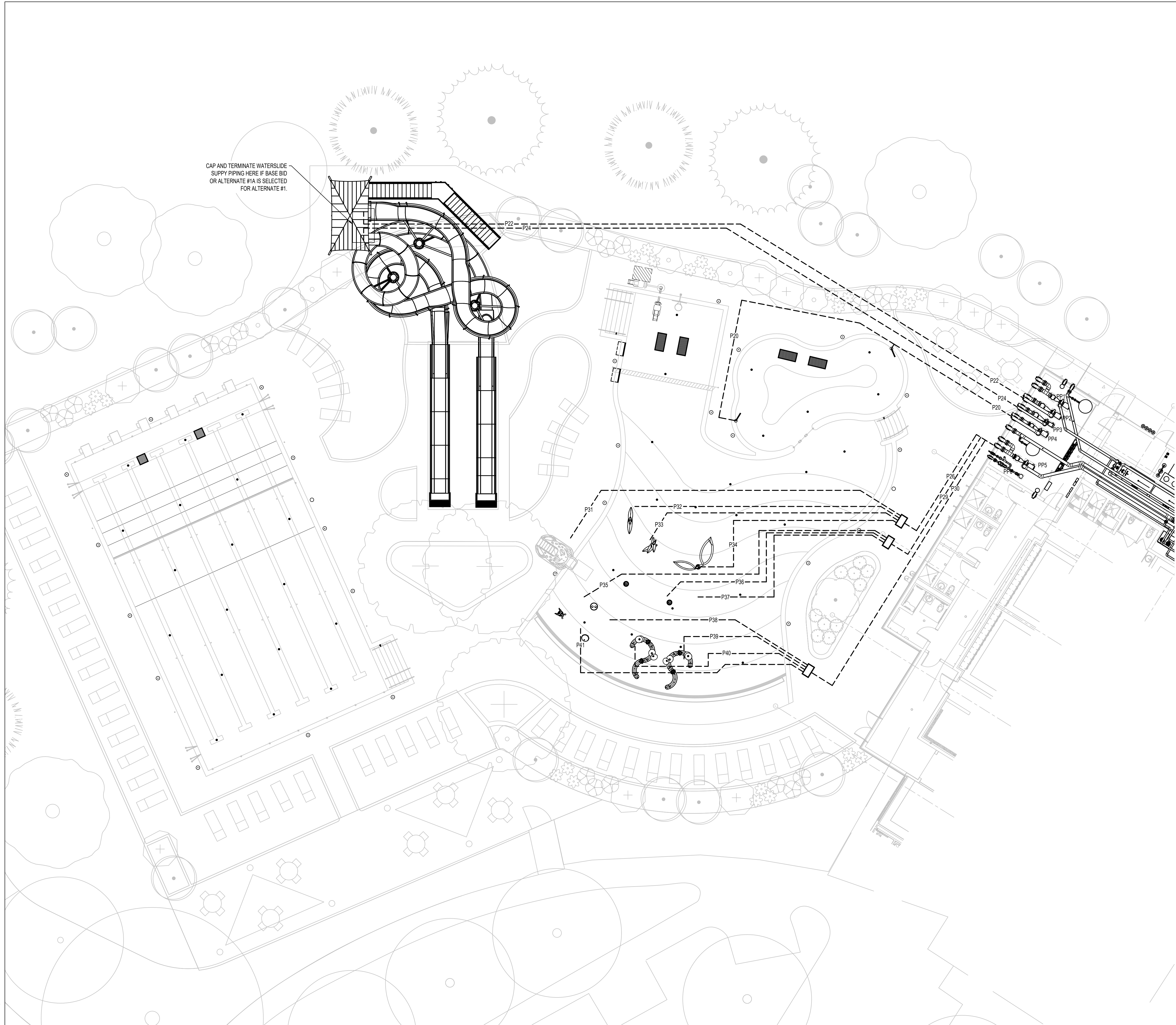
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	01/22/2024	100% DD
2	03/09/2024	50% CD
3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: POOL SUCTION PIPING PLAN

SHEET #:

AQ402



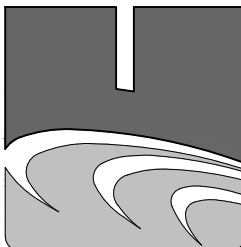
1
AQ403
3/32" = 1'-0"

POOL FEATURE RETURN PIPING PLAN

PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	6" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
P33	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 2
P34	1.5" FROM VALVE BOX 1 TO LEAF NO 3
P35	1.5" FROM VALVE BOX 2 TO BUTTERFLY NO 1
P36	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P37	1.5" FROM VALVE BOX 2 TO CASCADE RAINFOREST
P38	1.5" FROM VALVE BOX 3 FROG NO 1
P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL



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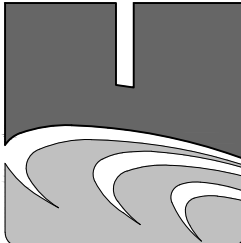
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

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3	03/22/2024	SITE PLAN APPLICATION 02

SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: POOL FEATURE RETURN
PIPING PLAN

SHEET #:

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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

1700 Bull Pasture Rd, Eagle, CO 81631

BACKWASH FUNNEL SCHEDULE				
ID	POOL	FILTER DISCHARGE RATE GPM (MIN.)	BACKWASH FUNNEL SIZE	SANITARY CONNECTION
B1	LAP	360		8"
B2	RECREATION	450		8"

NOTE:
REFER: XXXXX

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR & LINT		NOTES
									MAKE	SIZE	
PP1	LAP POOL RECIRCULATION PUMP REFER.	GRISWOLD 850 SERIES	6X5-14T	6"X5"	550	85	25	5.91	MERMADE	8"X6"	12.34, 6.9,10
PP2	OPEN FLUME WATERSLIDE PUMP REFER.	GRISWOLD 850 SERIES	6X6-10	8"X6"	1,000	55	20	8.43	MERMADE	10"X8"	12.34, 5.7,8.9
PP3	CLOSED FLUME WATERSLIDE PUMP REFER.	GRISWOLD 850 SERIES	5X4-10	5"X4"	500	55	10	6.10	MERMADE	8"X5"	12.34, 5.7,8.9
PP4	RECREATION POOL CURRENT CHANNEL PROPULSION PUMP REFER.	GRISWOLD 850 SERIES	6X6-10	8"X6"	775	40	15	8.02	MERMADE	10"X8"	12.34, 7.8,9
PP5	RECREATION POOL RECIRCULATION PUMP REFER.	GRISWOLD 850 SERIES	6X5-14T	6"X5"	675	85	25	6.01	MERMADE	8"X6"	12.34, 6.9,10
PP6	RECREATION SPRAY FEATURE PUMP REFER.	PENTAIR WHISPERFLO XF	XF6-6	2.5"X2.5"	125	55	2	SELF - PRIMING	INTEGRAL	N/A	12.34, 7.8,9

NOTE:
 1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN.
 2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
 3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-60 PSI.
 4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM BALDOR RELIANCE TEFC MOTOR.
 5. PROVIDE WITH CHECK VALVE.
 6. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS
 7. PROVIDE VARIABLE FREQUENCY DRIVE.
 8. PROVIDE REMOTE PUMP START.
 9. PROVIDE EMERGENCY STOP.
 10. A SINGLE SPARE RECIRCULATION PUMP AND 25 HP 1750 RPM MOTOR SHALL BE PROVIDED THAT CAN BE USED AT EITHER POOL.

ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	HP	FLOW
CF1	LAP POOL CHLORINATION BOOSTER PUMP REFER:	PULSAR	PRECISION	4	1	189 LBS/DAY
CF2	LAP POOL ACID FEED PUMP REFER:	STENNER	45M3	3	FRAC	22 GAL/DAY
CF3	LAP POOL CO2 FEED REFER:	BECS	BEC/SYSC02	N/A	N/A	20-200 SCFH
CF4	RECREATION POOL CHLORINATION BOOSTER PUMP REFER:	PULSAR	PRECISION	4	1	189 LBS/DAY
CF5	RECREATION POOL ACID FEED PUMP REFER:	STENNER	45M3	3	FRAC	22 GAL/DAY
CF6	RECREATION POOL CO2 FEED REFER:	BECS	BEC/SYSC02	N/A	N/A	20-200 SCFH

NOTE:
 1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN.
 2. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED.
 3. INTERLOCK WITH POOL RECIRCULATION PUMP.

FILL SCHEDULE							
ID	POOL	FRESH WATER SUPPLY GPM (MIN.)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)
L1	LAP	91	10"	10"x6"	8"	6"	24
L2	RECREATION	91	10"	10"x6"	8"	6"	12

NOTE:
REFER: XXXXX

ELECTRONIC FLOCCULATION SYSTEM SCHEDULE							
ID	POOL	MANUFACTURER	MODEL	NOMINAL PIPE SIZE	INPUT VOLTAGE	POWER CABLE LENGTH	SIGNAL CABLE LENGTH
C1	LAP	CLEAR-FLOW	CF-600	6"	100-240 VAC	15 FT	33 FT
C2	RECREATION	CLEAR-FLOW	CF-800	8"	100-240 VAC	15 FT	33 FT

UV TREATMENT SYSTEMS SCHEDULE						
ID	POOL	MODEL NUMBER	USE EPA 3-LOG AND CALCULATED 40MJC/M2 (GPM)	LAMPS	AMPS (A)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	RECREATION	SAG-240-APVC-CR	133	2	2.4	120 V (1Ø)-10A

NOTE:

1. THE BASIS OF DESIGN MANUFACTURER IS CHLORING.
2. INTERLOCK UV SYSTEM WITH FEATURE PUMP.
3. REFER: XXXXX

GENERAL POOL MECHANICAL ROOM NOTES

- EQUIPMENT ROOM FLOOR AND PUMP PIT FLOOR MUST SLOPE 1/4" TO 1/2" PER FOOT TO FLOOR DRAINS OR SUMP PIT. REFER TO PLUMBING.
- PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
- VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
- THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
- REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
- REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.

PIPING AND VALVING

- MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
- PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
- LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
- ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FLOOR RETURN.
- HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
- REFER TO DETAILS X-X ON DRAWING AOX-X FOR INSTALLATION OF PIPE SUPPORTS.
- ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER:
- ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
- ALL VALVES MUST BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
- PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR. CHAIN MUST EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
- ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.

CHEMICAL TREATMENT

- CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ--.
- INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S) AND HEATER(S).
- PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER:
- SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
- WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
- SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
- PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.
- INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER:

ELECTRICAL

- GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
- POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
- CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.
- PROVIDE ELECTRICAL CONNECTION TO POOL HEATERS. REFER TO ELECTRICAL.

ID	POOL	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ. FT.)	DESIGN FILTRATION RATE (GPM/SQ. FT.)	REQUIRED FILTRATION AREA (SQ. FT.)	DESIGN FILTRATION AREA (SQ. FT.)	FILTER BACKWASH RATE (GPM/SQ. FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
F1	LAP	PADDOCK	HZF-42-48	2	HRS	12.0	11.5	45.8	48.0	15.0	360
F2	RECREATION	PADDOCK	HZF-42-60	2	HRS	12.0	11.3	56.3	60.0	15.0	450

NOTE:

1. BACKWASH METHOD MUST BE MANUAL.
2. ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
3. FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
4. VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
5. THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH FUNNEL OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
6. FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
7. THE BACKWASH THROTTLING VALVE(S) HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED AND BALANCED.
8. PROVIDE 1" DIAMETER, SCHEDULE 80 PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER VESSEL TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
9. VESSEL MUST BE BACKWASHED AT 15.0 GPM/SF.

HEATER SCHEDULE										
ID	POOL	MAKE	MODEL	QTY.	BOILER EFF (%)	TOTAL INPUT (MBH)	AIR INLET SIZE (INCHES)	PIPE SIZE (IN/OUT)	VENT SIZE (INCH)	ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER)
H1	LAP	LOCHINVAR	CPN1442	1	85	1,440	12"	2.5"	12"	V 120 120 PH 1 1 HZ 60 60 AMP 30A 20A
H2	RECREATION	LOCHINVAR	CPN1262	2	85	2,520	12"	2.5"	12"	V 120 120 PH 1 1 HZ 60 60 AMP 30A 20A

NOTE:

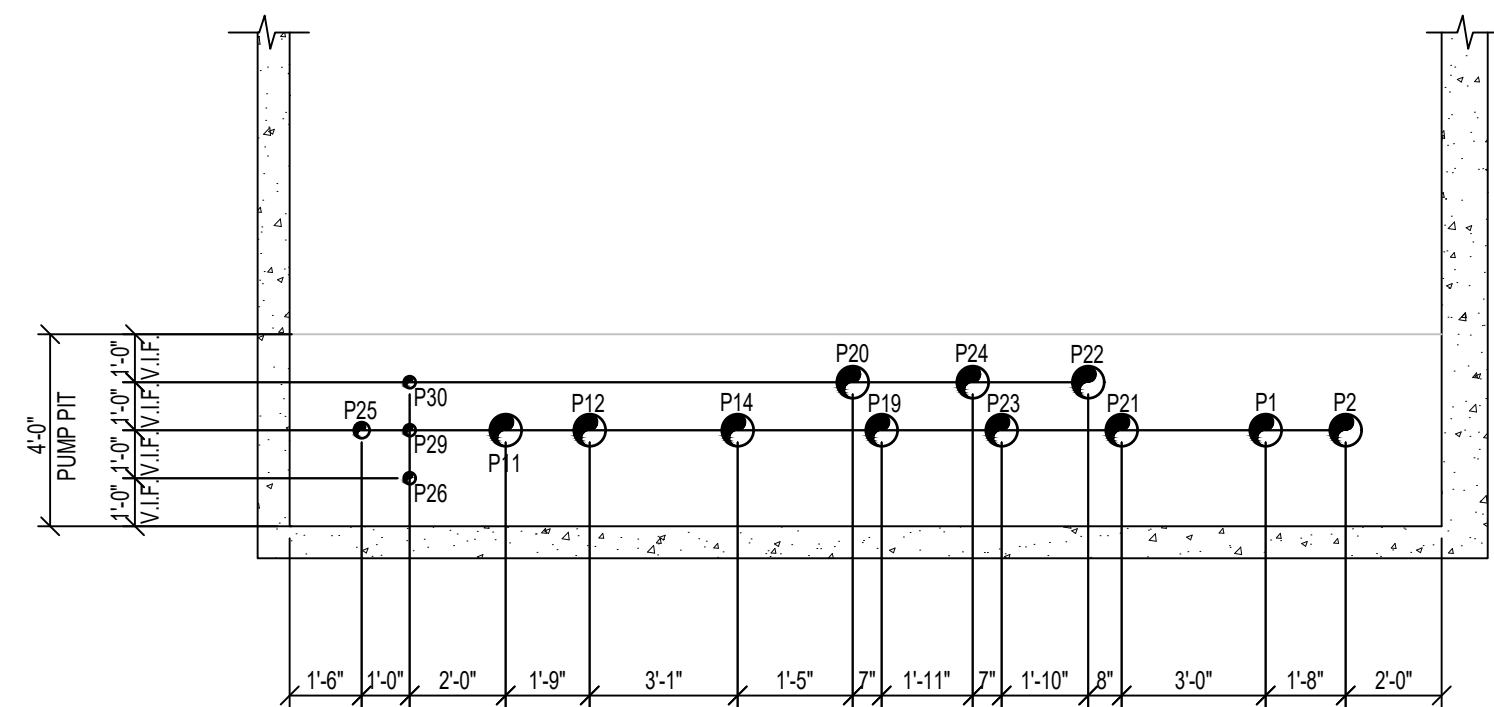
- THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR. ALTERNATE MANUFACTURER: RAYPAK OR APPROVED EQUAL.
- HEATERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
- REFER: XXXXX
- EACH GAS-FIRED POOL HEATER SHALL BE EQUIPPED WITH AN EMERGENCY STOP SWITCH OR BUTTON LOCATED AT THE ENTRANCE TO THE POOL MECHANICAL ROOM. REFER TO ELECTRICAL.

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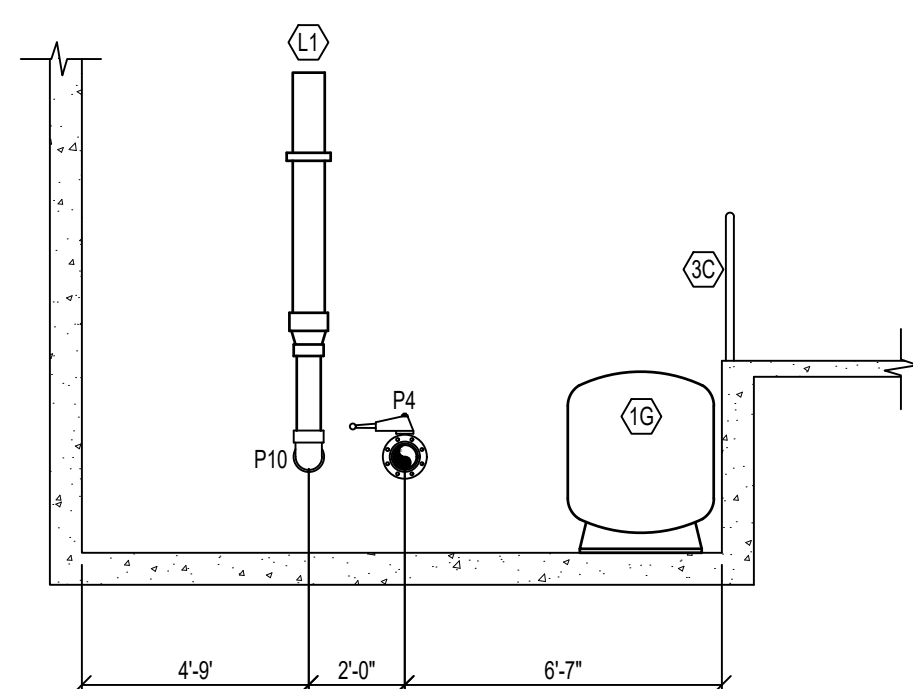
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 NOTES & SCHEDULES

SHEET #

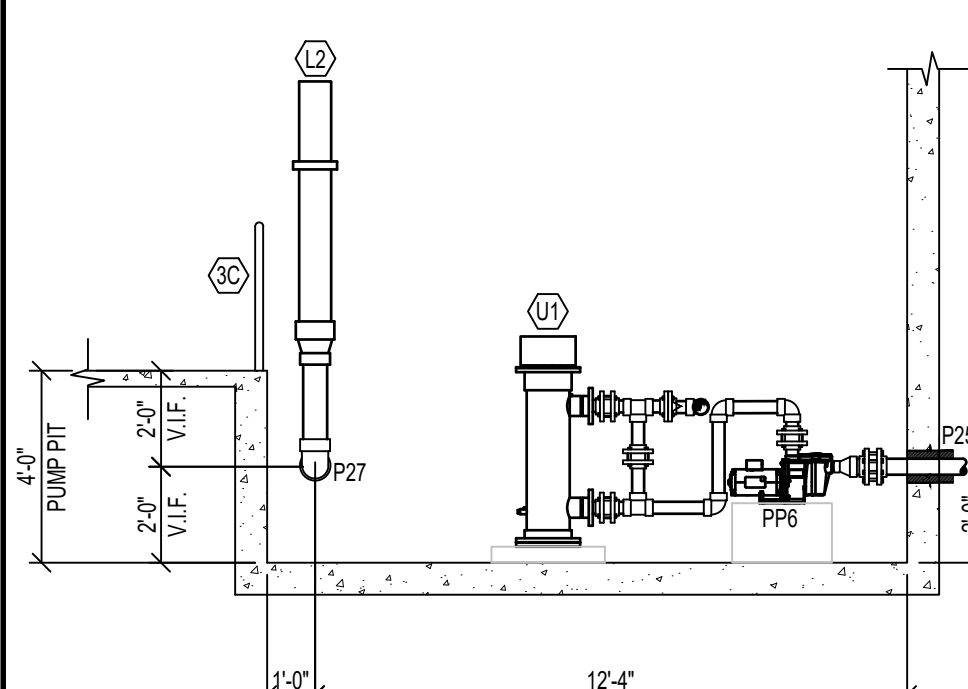
AQ500



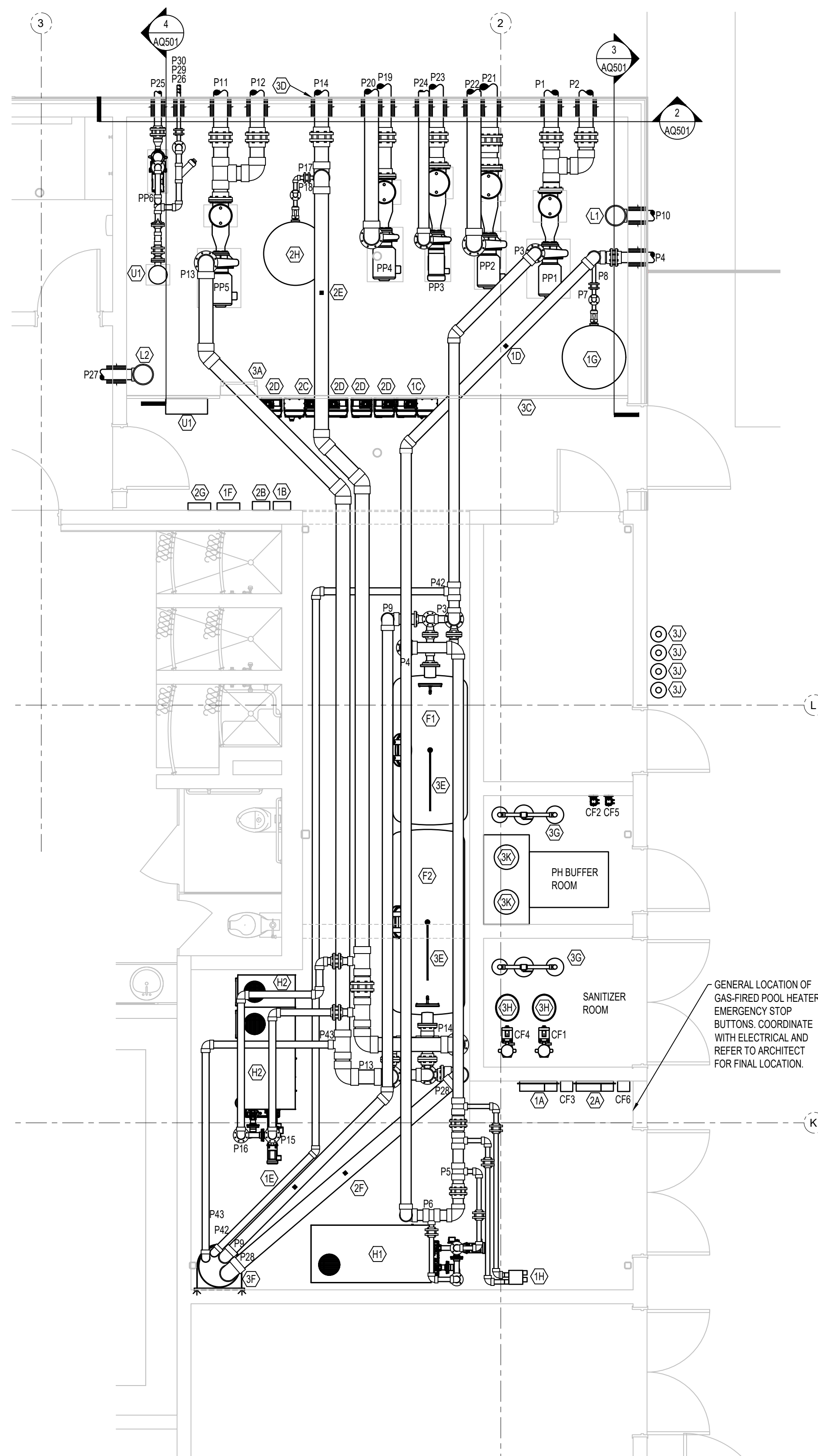
2 POOL MECHANICAL SECTION
AQ501 1/4" = 1'-0"



3 POOL MECHANICAL SECTION
AQ501 $1/4" = 1'-0"$



4 POOL MECHANICAL SECTION
AQ501 1/4" = 1'-0"



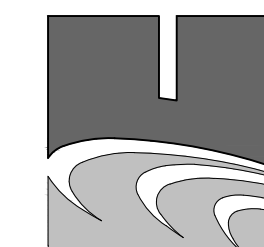
1 POOL MECHANICAL ROOM
AQ501 1/4" = 1'-0"

EQUIPMENT SCHEDULE	
ID	ITEM
LAP POOL	
1A	CHEMICAL CONTROLLER REFER
1B	WATER LEVEL CONTROLLER REFER
1C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
1D	FLOW METER SENSOR REFER
1E	IMPACT FLOW METER REFER
1F	FLOW TECH REFER
1G	SPHAGNUM MOSS REFER
1H	RE-USED EXISTING HEAT EXCHANGER (REFER TO MECHANICAL) REFER
RECREATION POOL	
2A	CHEMICAL CONTROLLER REFER
2B	WATER LEVEL CONTROLLER REFER
2C	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
2D	VARIABLE FREQUENCY DRIVE
2E	FLOW METER SENSOR REFER
2F	IMPACT FLOW METER REFER
2G	FLOW TECH REFER
2H	SPHAGNUM MOSS REFER
COMBINED	
3A	LADDER RUNGS
3B	SAFETY CHAIN
3C	REMOVABLE RAILING
3D	LINK SEAL (TYPICAL) REFER
3E	HARD PIPE TO DRAIN
3F	BACKWASH FUNNEL REFER
3G	EYE WASH STATION REFER TO PLUMBING
3H	CHLORINE SYSTEM REFER
3J	CO ₂ CYLINDER REFER
3K	ACID SYSTEM REFER

PIPE SCHEDULE	
ID	DESCRIPTION
P1	8" FROM M1 TO PP1
P2	8" FROM LAP POOL SKIMMERS TO PP1
P3	6" FROM PP1 TO F1
P4	6" FROM F1 TO LAP POOL RETURN INLETS
P5	X" FROM P4 TO H1
P6	X" FROM H1 TO P4
P7	2" FROM P4 TO SPHAGNUM MOSS TANK
P8	2" FROM SPHAGNUM MOSS TANK TO P4
P9	6" FROM F1 TO BACKWASH FUNNEL
P10	6" FROM L1 TO M1
P11	8" FROM M2 TO PP5
P12	8" FROM LEISURE POOL SKIMMERS TO PP5
P13	8" FROM PP5 TO F2
P14	8" FROM F2 TO LEISURE POOL RETURN INLETS
P15	4" FROM P14 TO H2
P16	4" FROM H2 TO P14
P17	2" FROM P14 TO SPHAGNUM MOSS TANK
P18	2" FROM SPHAGNUM MOSS TANK TO P14
P19	8" FROM M2 TO PP4
P20	8" FROM PP4 TO LEISURE POOL RIVER NOZZLES
P21	10" FROM M3 TO PP2
P22	8" FROM PP2 TO OPEN FLUME SLIDE
P23	8" FROM M3 TO PP3
P24	8" FROM M3 TO CLOSED FLUME SLIDE
P25	4" FROM M2 TO PP6
P26	1.5" FROM PP6 TO VALVE BOX 1
P27	6" FROM L2 TO M3
P28	6" FROM F2 TO BACKWASH FUNNEL
P29	2" FROM PP6 TO VALVE BOX 2
P30	2" FROM PP6 TO VALVE BOX 3
P31	1.5" FROM VALVE BOX 1 TO FROG SLIDE
P32	1.5" FROM VALVE BOX 1 TO BAMBOO TREE 1
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P39	1.5" FROM VALVE BOX AQUADOME NO 2
P40	1.5" FROM VALVE BOX AQUADOME NO 1
P41	1.5" FROM VALVE BOX WATER BUG NO 3
P42	4" FROM P3 TO BACKWASH FUNNEL
P43	4" FROM P13 TO BACKWASH FUNNEL



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PLAN

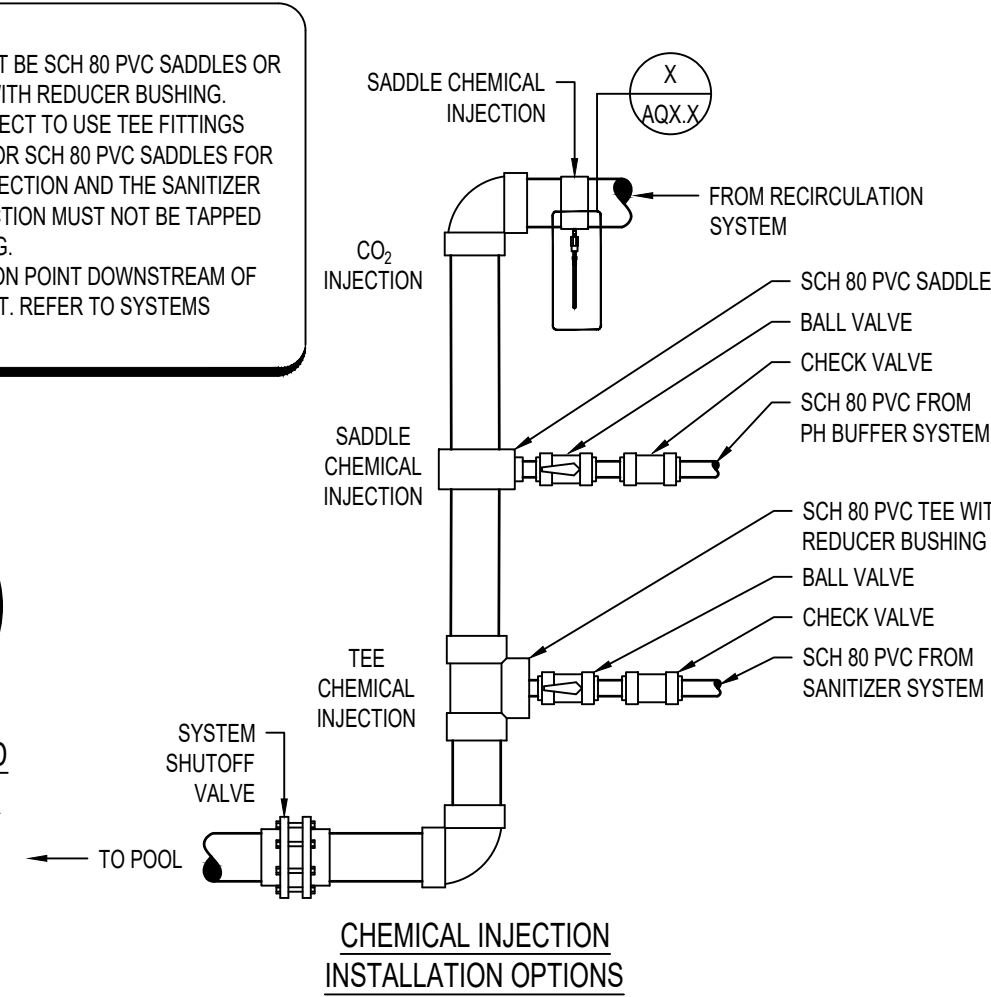
SHEET #

AQ501

- NOTE:
- CHEMICAL INJECTIONS MUST BE SCH 80 PVC SADDLES OR SCH 80 PVC TEE FITTINGS WITH REDUCER BUSHING.
 - POOL CONTRACTOR CAN ELECT TO USE TEE FITTINGS WITH REDUCER BUSHINGS OR SCH 80 PVC SADDLES FOR BOTH THE PH CHEMICAL INJECTION AND THE SANITIZER INJECTION. CHEMICAL INJECTION MUST NOT BE TAPPED INTO RECIRCULATION PIPING.
 - INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT. REFER TO SYSTEMS SCHEMATIC.

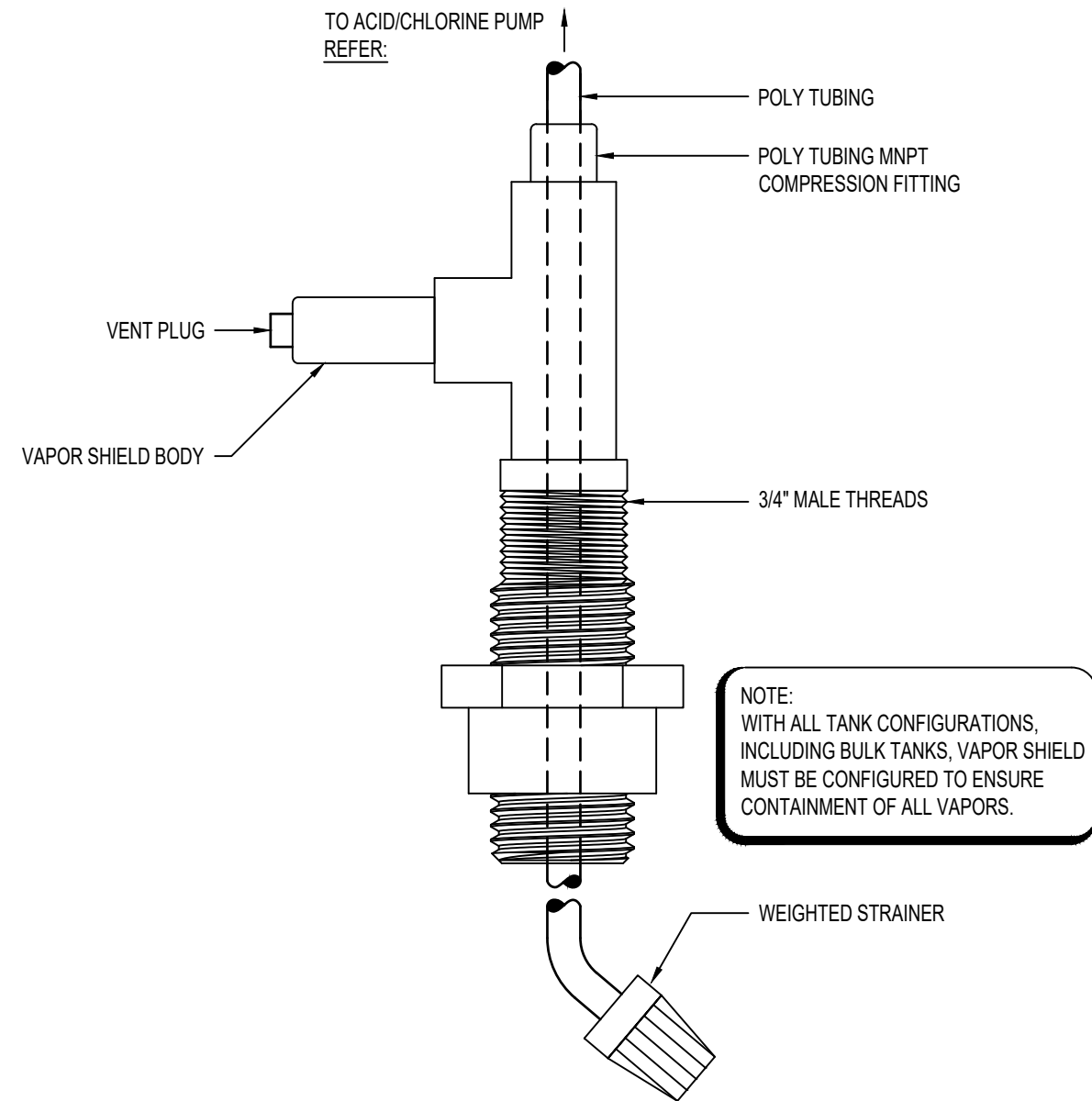


DO NOT DRILL AND TAP POOL PIPING



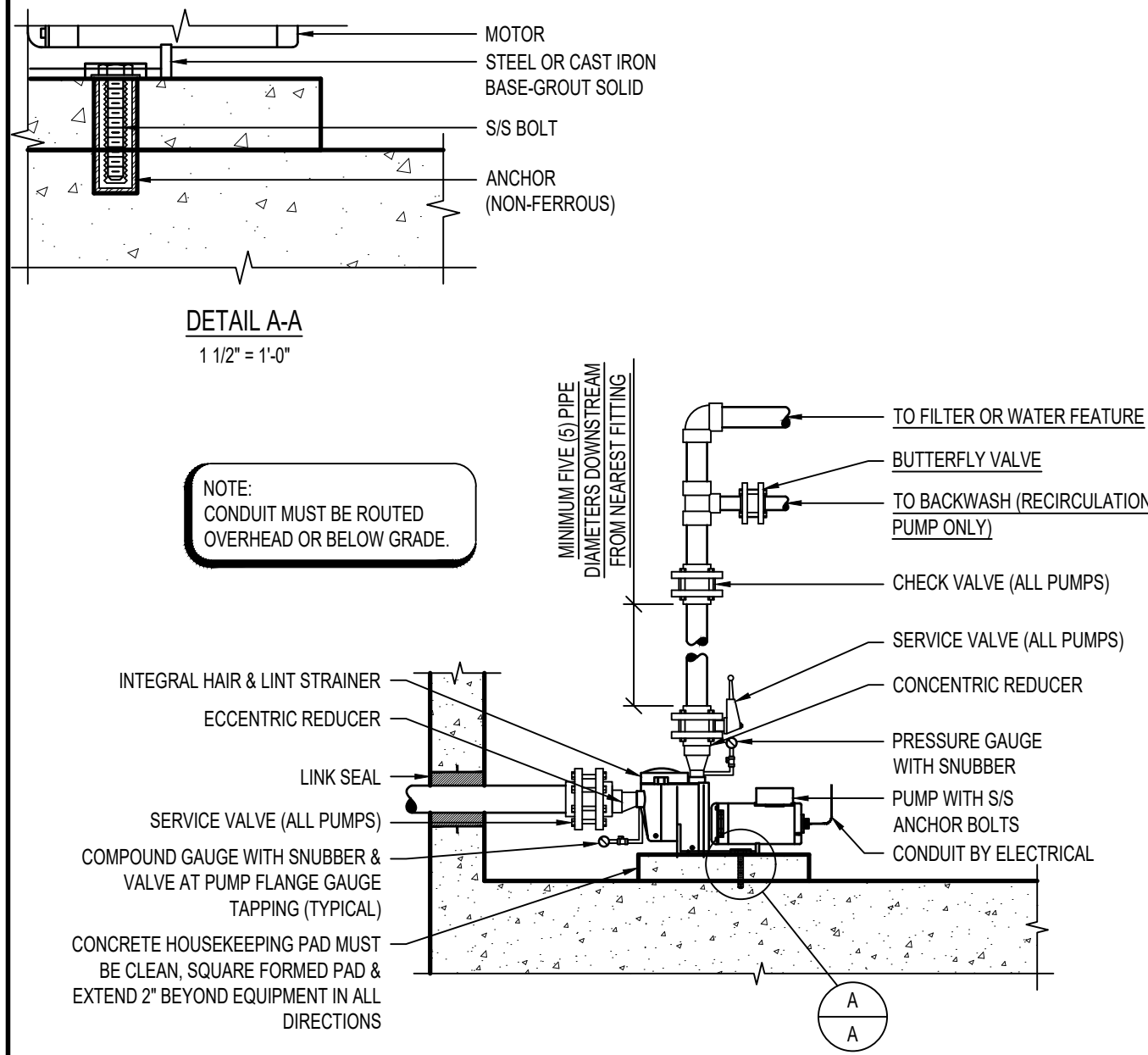
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AQ502
1/2" = 1'-0"

CHEMICAL INJECTION



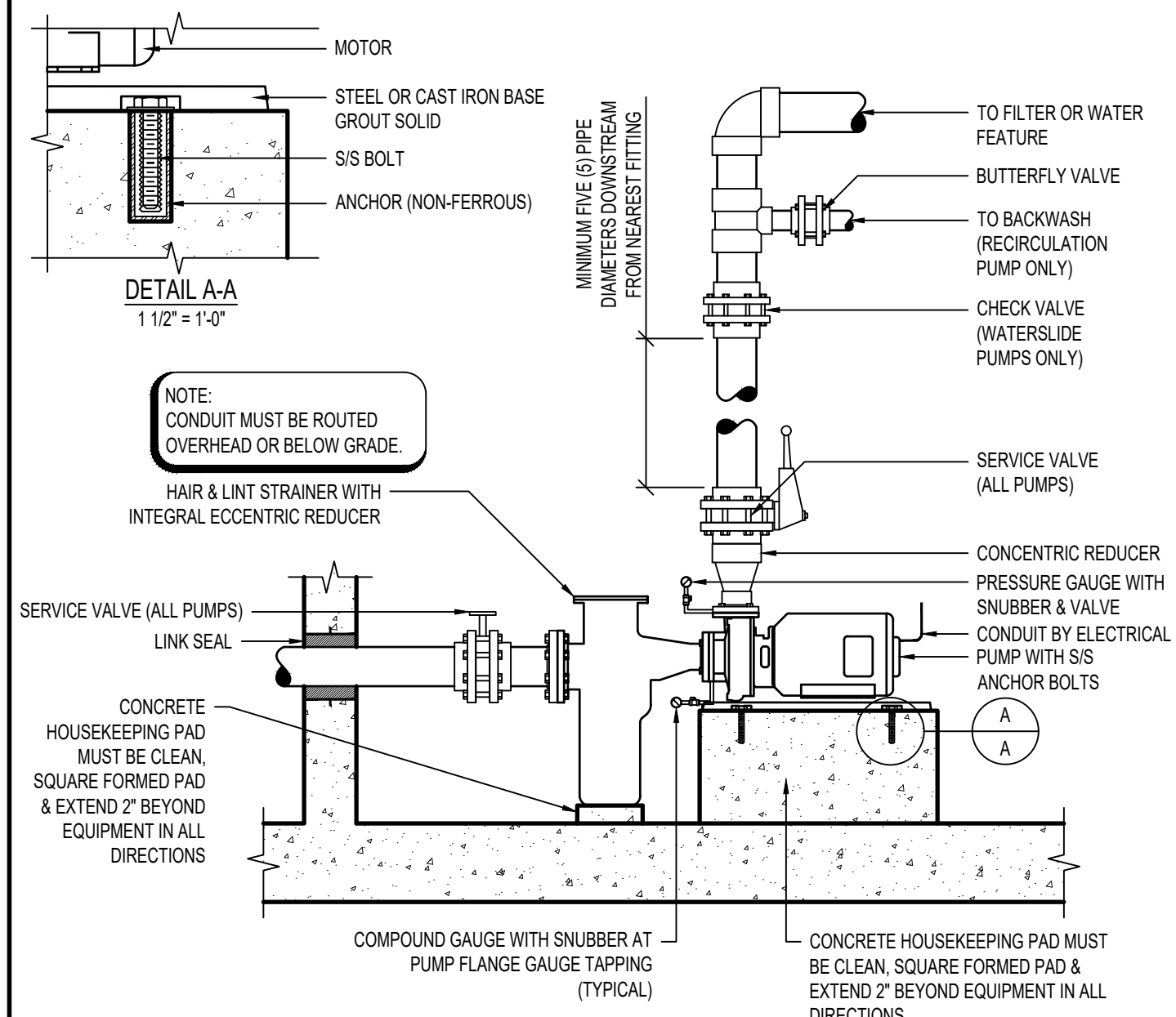
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AQ502
6" = 1'-0"

CHEMICAL VENT PIPING



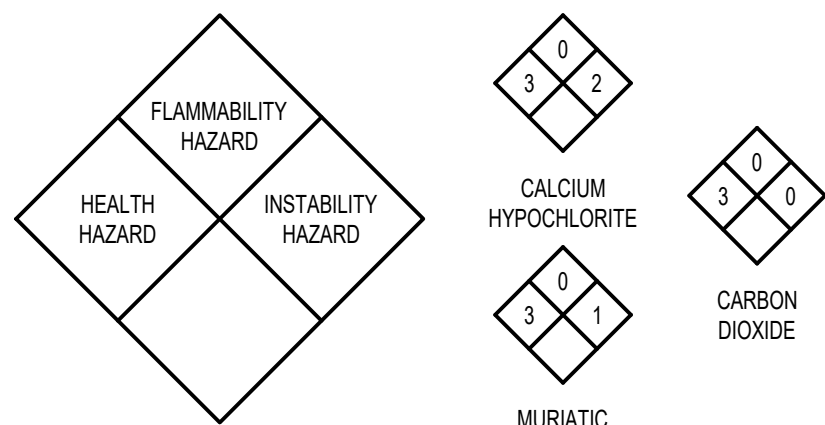
3
AQ502
1/2" = 1'-0"

FEATURE PUMP DETAIL



1
AQ502
1/2" = 1'-0"

TYPICAL PUMP DETAIL

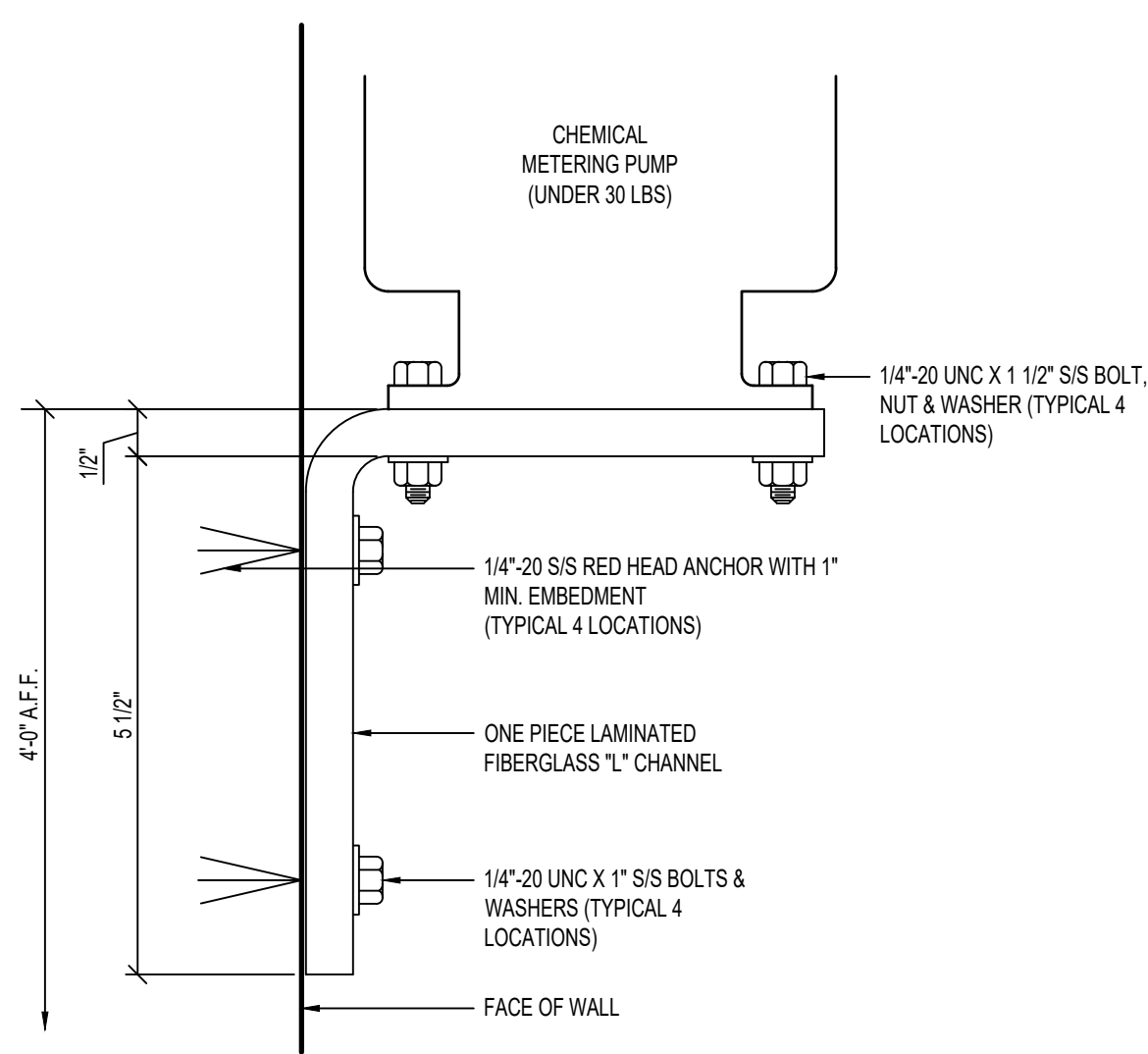


RATING EXPLANATION GUIDE			
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES F, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE, HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

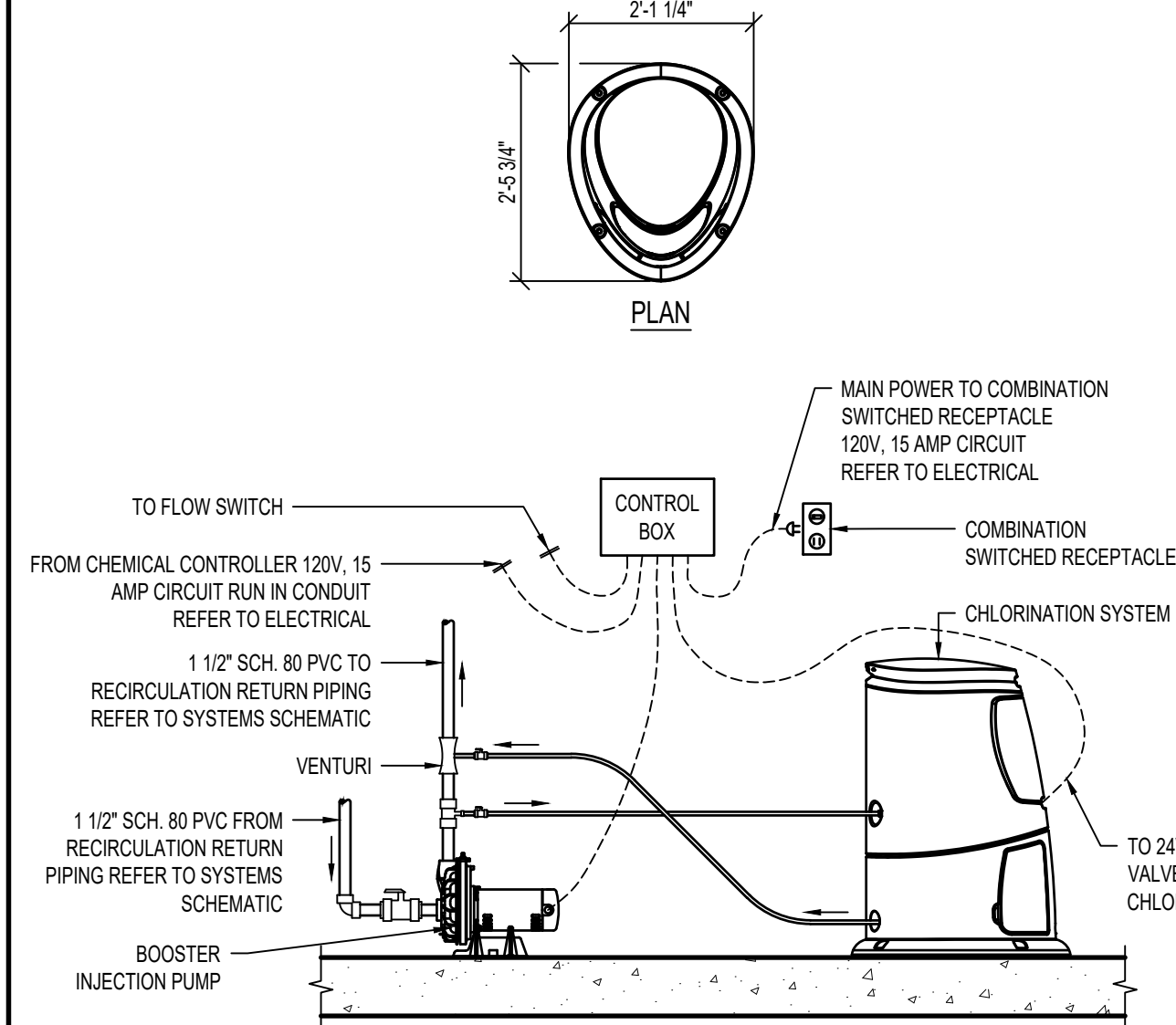
10
AQ502
NTS

HAZARD SIGNAGE



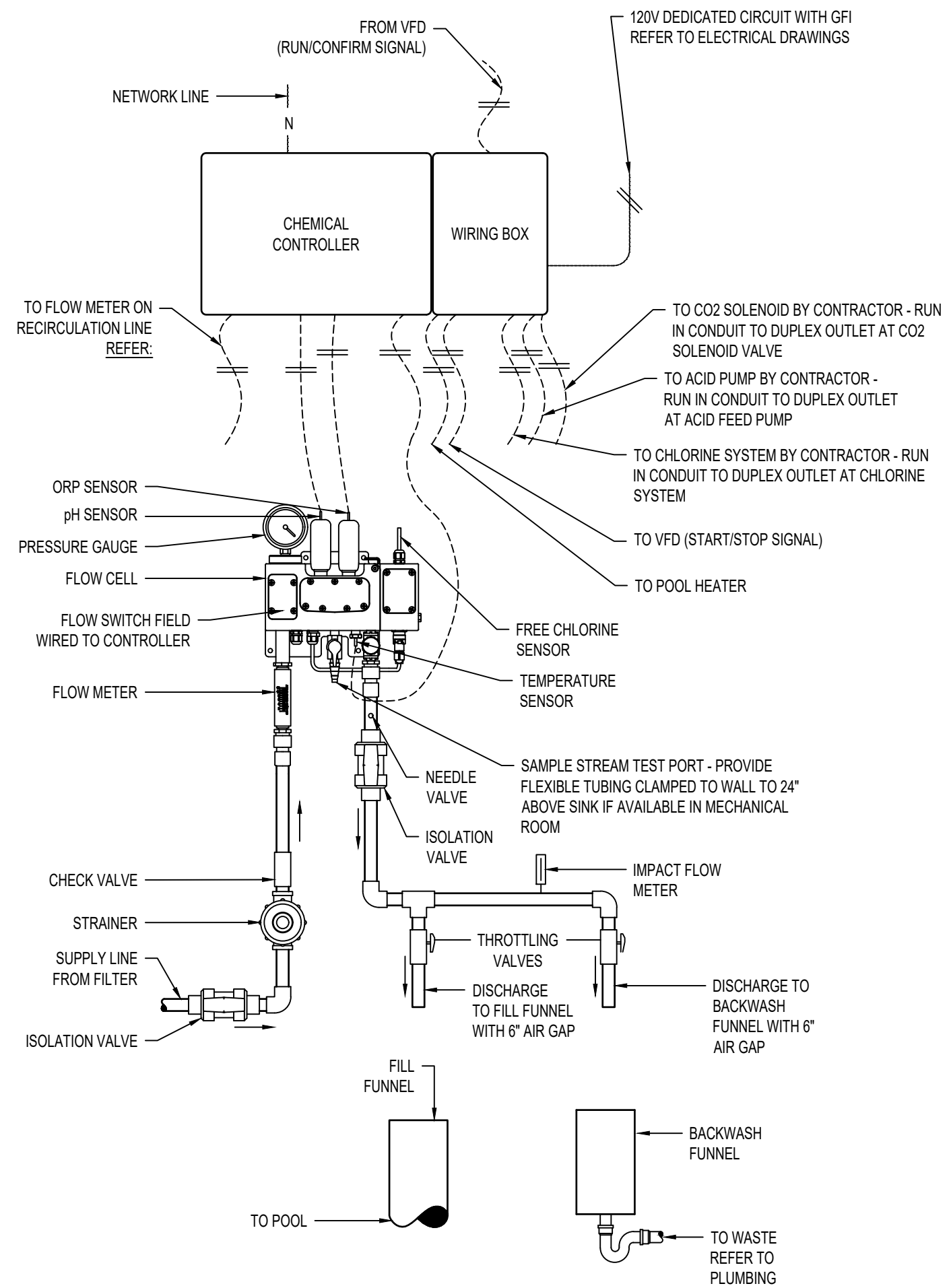
7
AQ502
6" = 1'-0"

CHEMICAL PUMP SHELF



4
AQ502
1/2" = 1'-0"

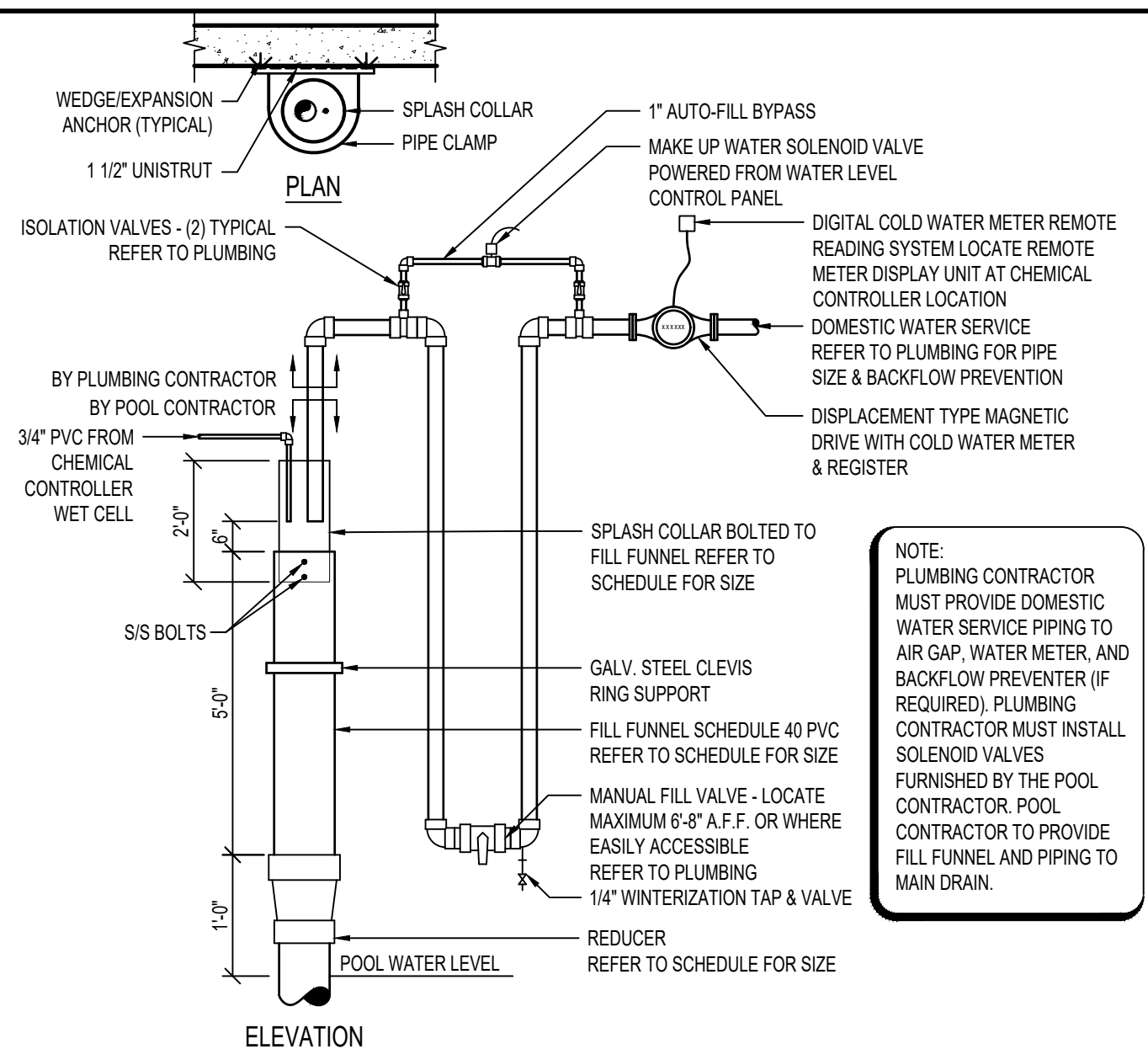
CHLORINATION SYSTEM



- NOTES:
- INTERLOCK WITH RECIRCULATION PUMP OCCURS INSIDE THE WIRING BOX ON BECS CONTROLLERS. CONTRACTOR TO PROVIDE FIELD WIRE INTERLOCK EXTERNAL TO THE CONTROLLER IF A BECS CONTROLLER IS NOT USED.
 - DRAWING IS FOR REFERENCE ONLY. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PIPE RUN FROM RECIRCULATION PIPE TO SAMPLE CELL TO BE 50 FEET OR LESS.
 - SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
 - PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.

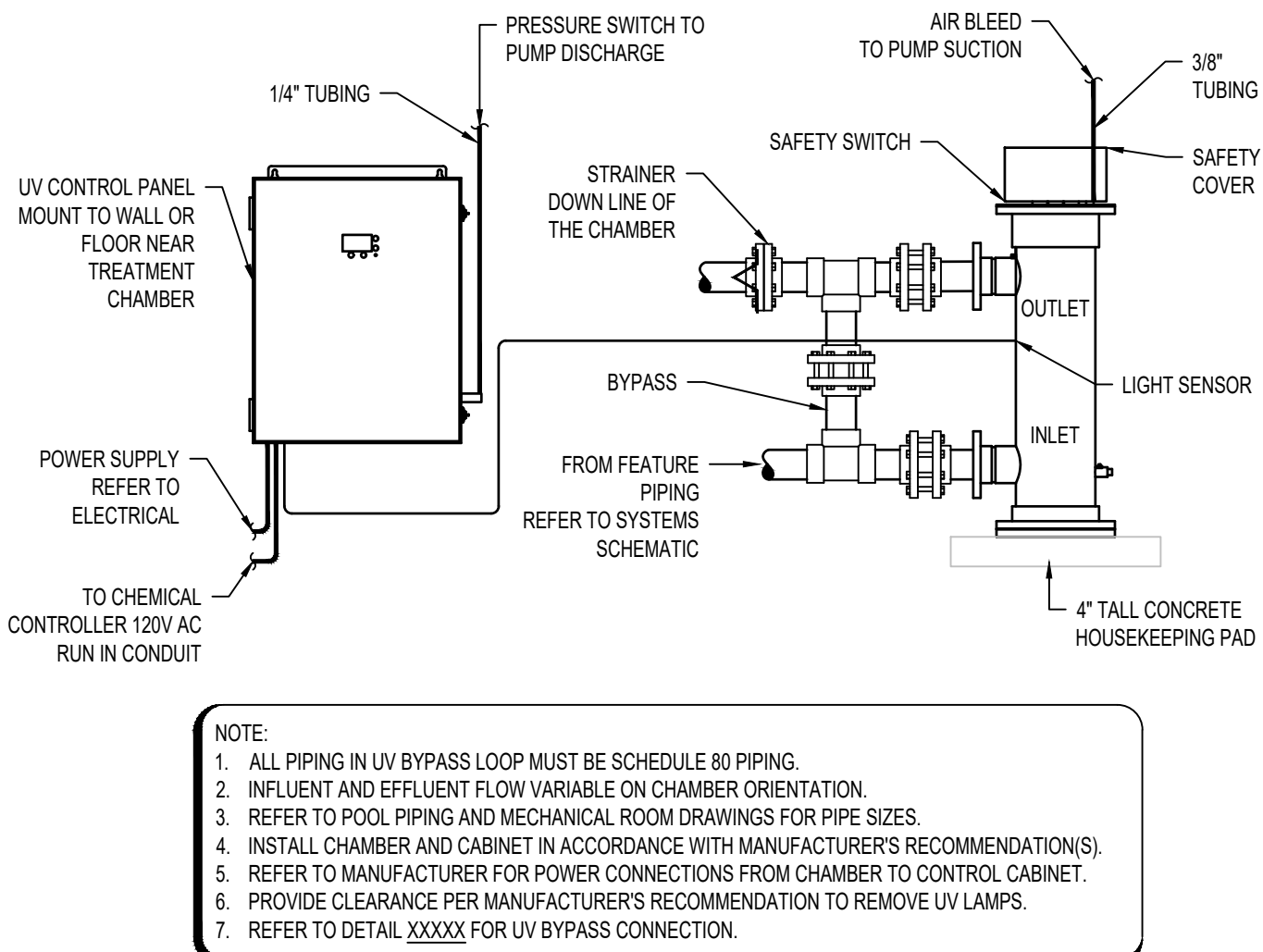
2
AQ502
NTS

CHEMICAL CONTROLLER



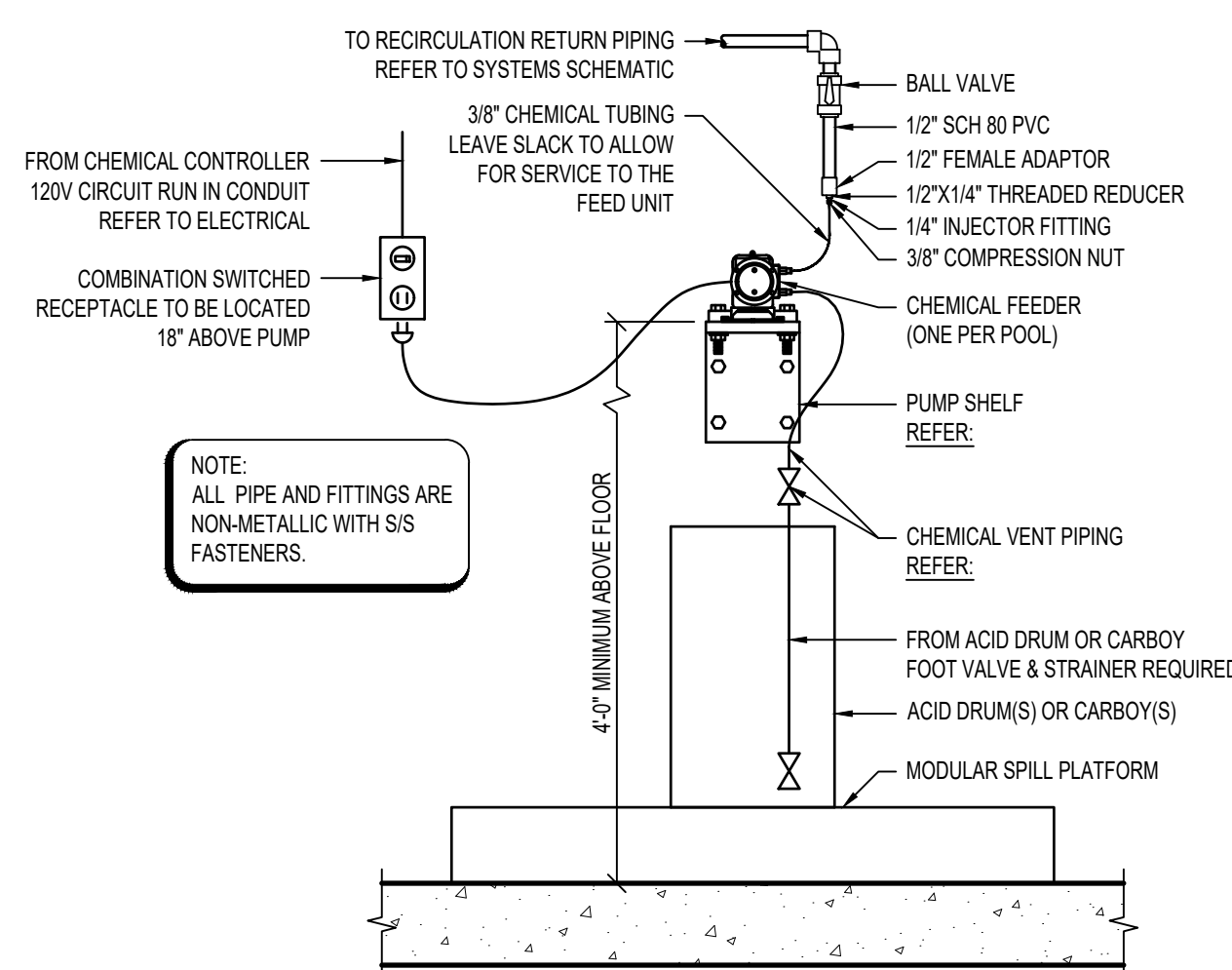
11
AQ502
3/8" = 1'-0"

FILL FUNNEL



8
AQ502
1/2" = 1'-0"

UV TREATMENT SYSTEM

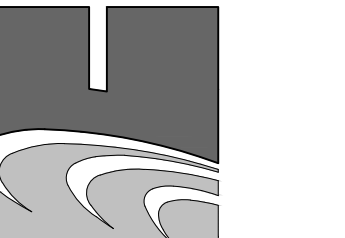


5
AQ502
3/4" = 1'-0"

ACID SYSTEM



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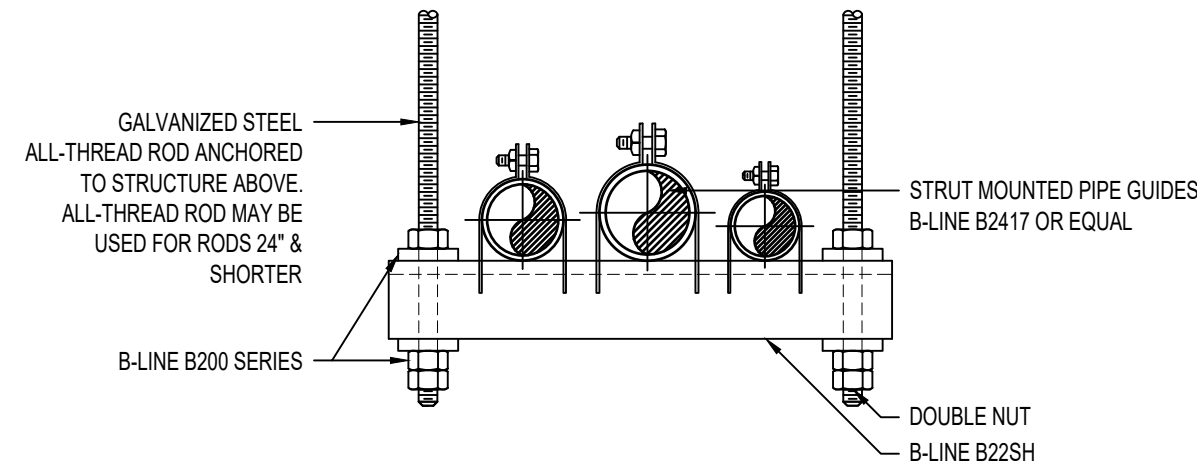
NOT FOR
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1700 Bull Pasture Rd, Eagle, CO 81631

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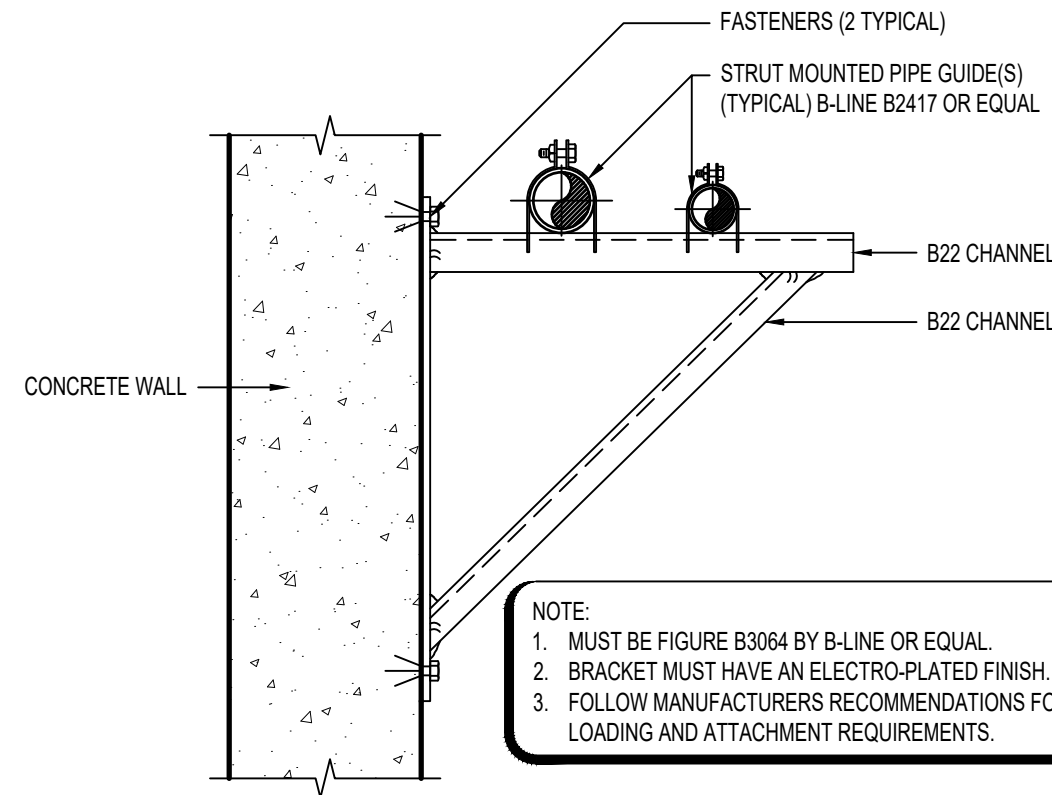
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ISSUE DATE: MARCH 22, 2024
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SHEET #:
AQ502



- NOTE:
1. COOPER B-LINE (BASIS OF DESIGN) ALTERNATE MANUFACTURERS UNISTRUT OR PRE-APPROVED EQUAL.
 2. REFER TO THE PROJECT MANUAL FOR FINISH REQUIREMENT.
 3. CONTRACTOR MUST FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.

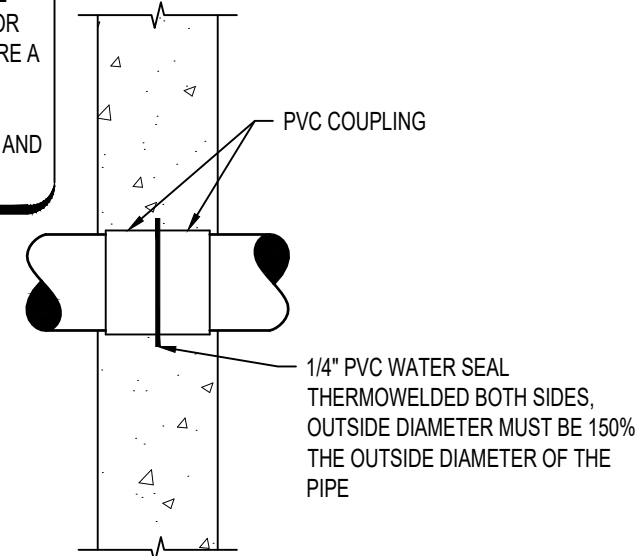
10 **TRAPEZE HANGER**
AQ503 3" = 1'-0"



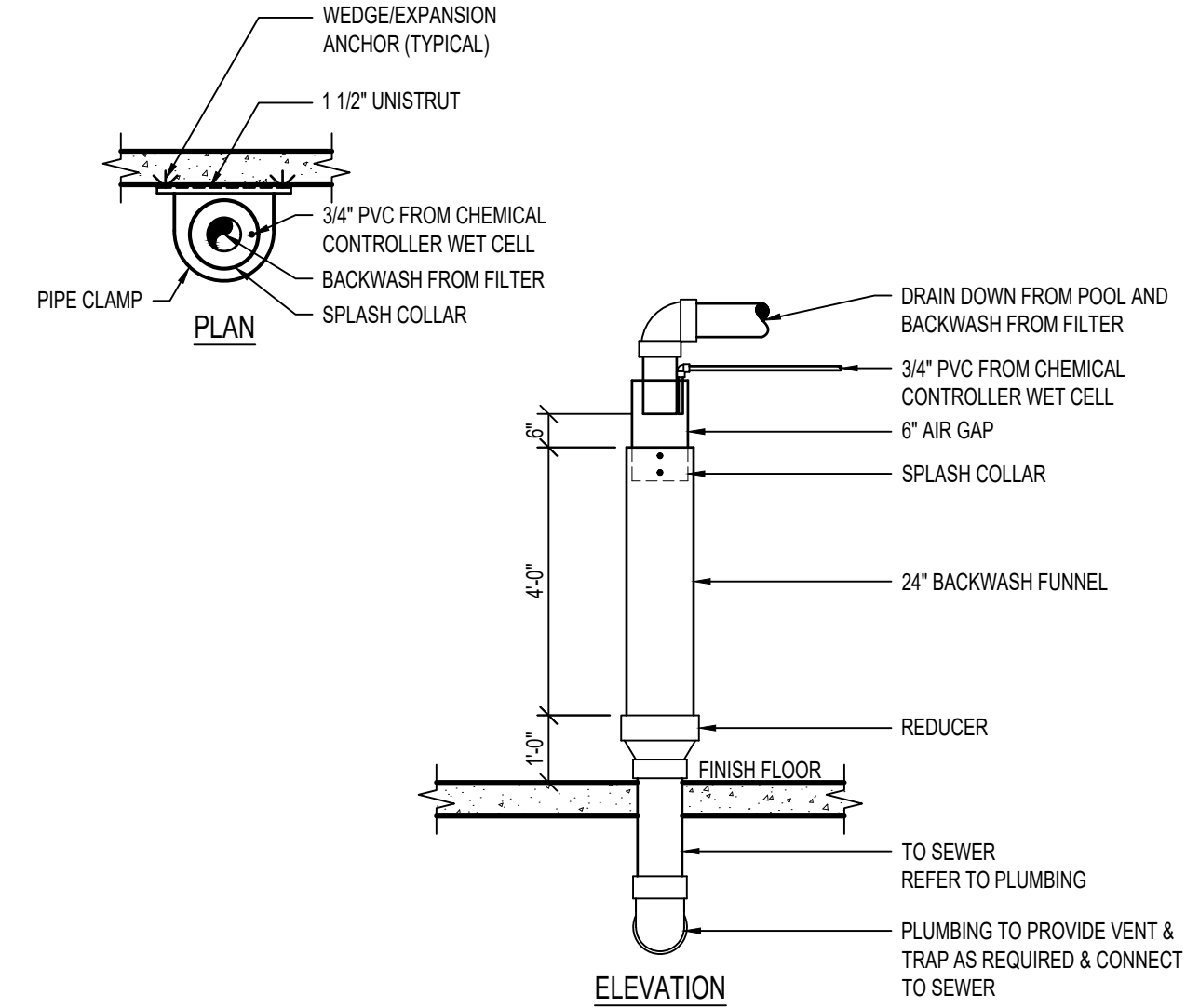
- NOTE:
1. MUST BE FIGURE B3064 BY B-LINE OR EQUAL.
 2. BRACKET MUST HAVE AN ELECTRO-PLATED FINISH.
 3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.

7 **ADJUSTABLE STRUT BRACKET**
AQ503 3" = 1'-0"

- NOTE:
1. WATER SEALS MUST BE LOCATED AT THE CENTERLINE OF THE WALL OR SLAB PRIOR TO PLACEMENT OF CONCRETE TO ENSURE A WATERTIGHT SEAL.
 2. PROVIDE 1 1/2" MINIMUM CONCRETE COVERAGE BETWEEN ADJACENT REBAR AND WATER SEAL.

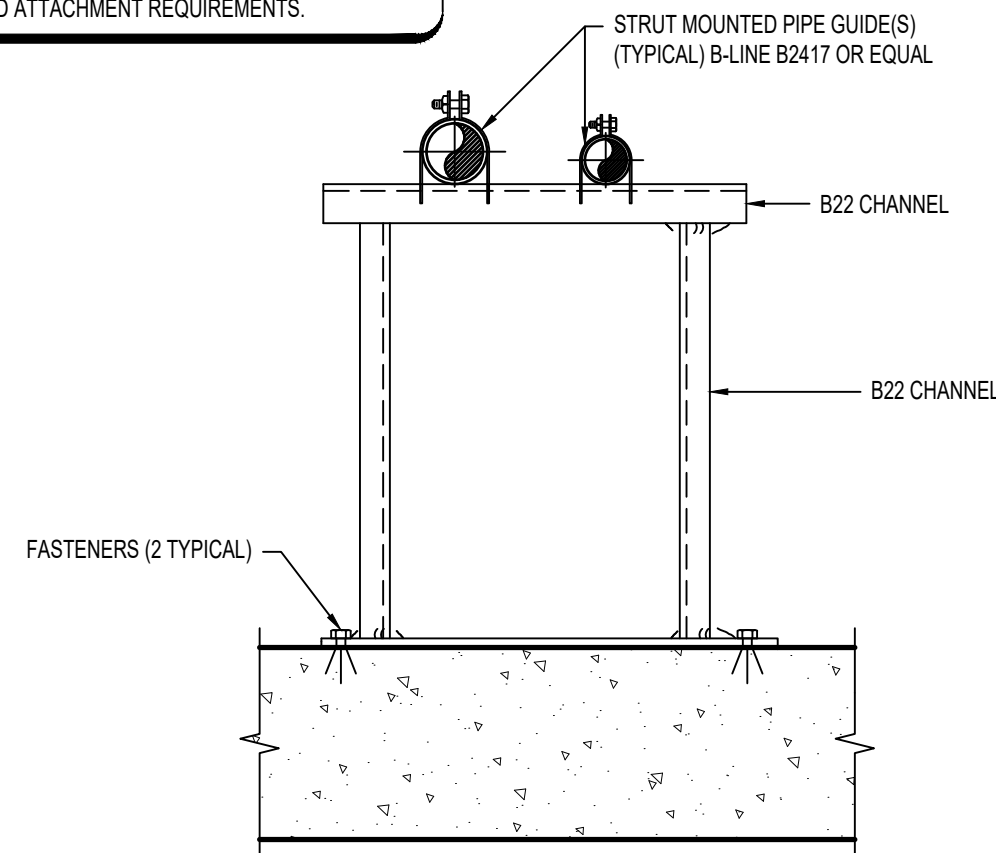


4 **WATER SEAL**
AQ503 1" = 1'-0"



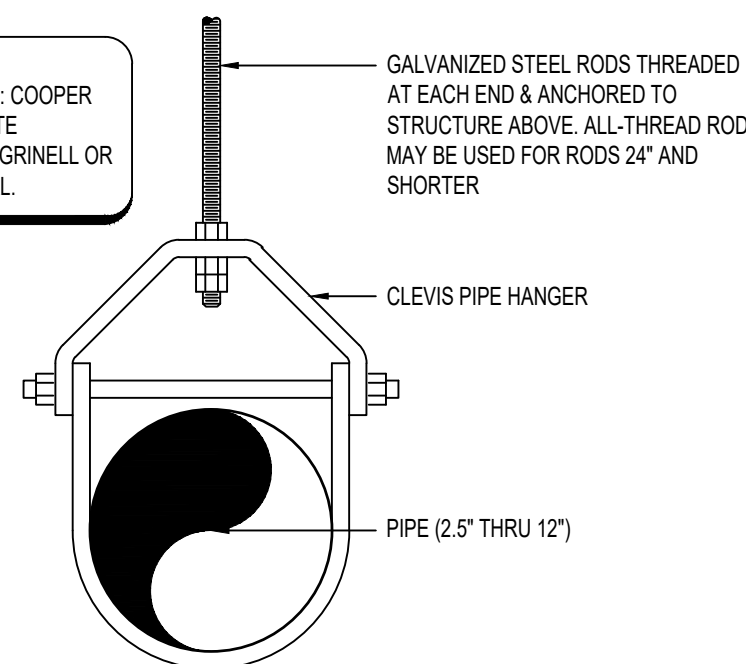
1 **BACKWASH FUNNEL**
AQ503 3/8" = 1'-0"

- NOTE:
1. MUST BE FIGURE B3064 BY B-LINE OR EQUAL.
 2. BRACKET MUST HAVE AN ELECTRO-PLATED FINISH.
 3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.

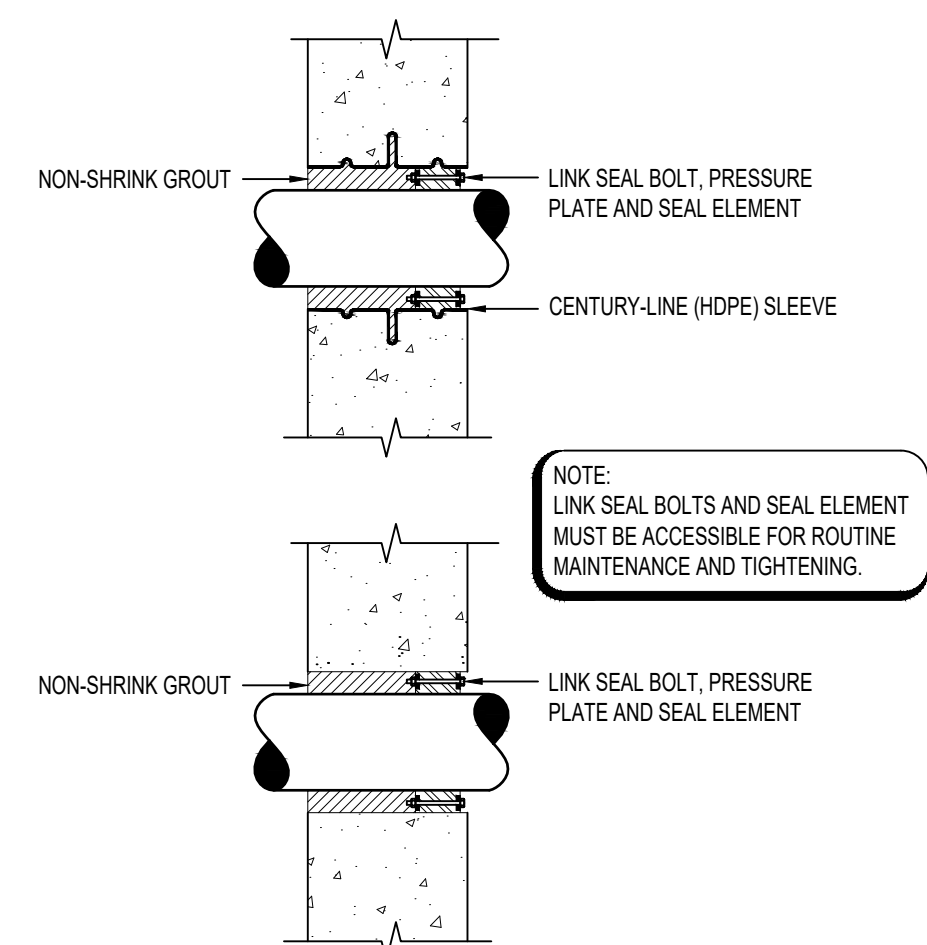


11 **FLOOR MOUNTED ADJUSTABLE STRUT BRACKET**
AQ503 3" = 1'-0"

- NOTE:
- BASIS OF DESIGN: COOPER B-LINE. ALTERNATE MANUFACTURER GRINELL OR APPROVED EQUAL.

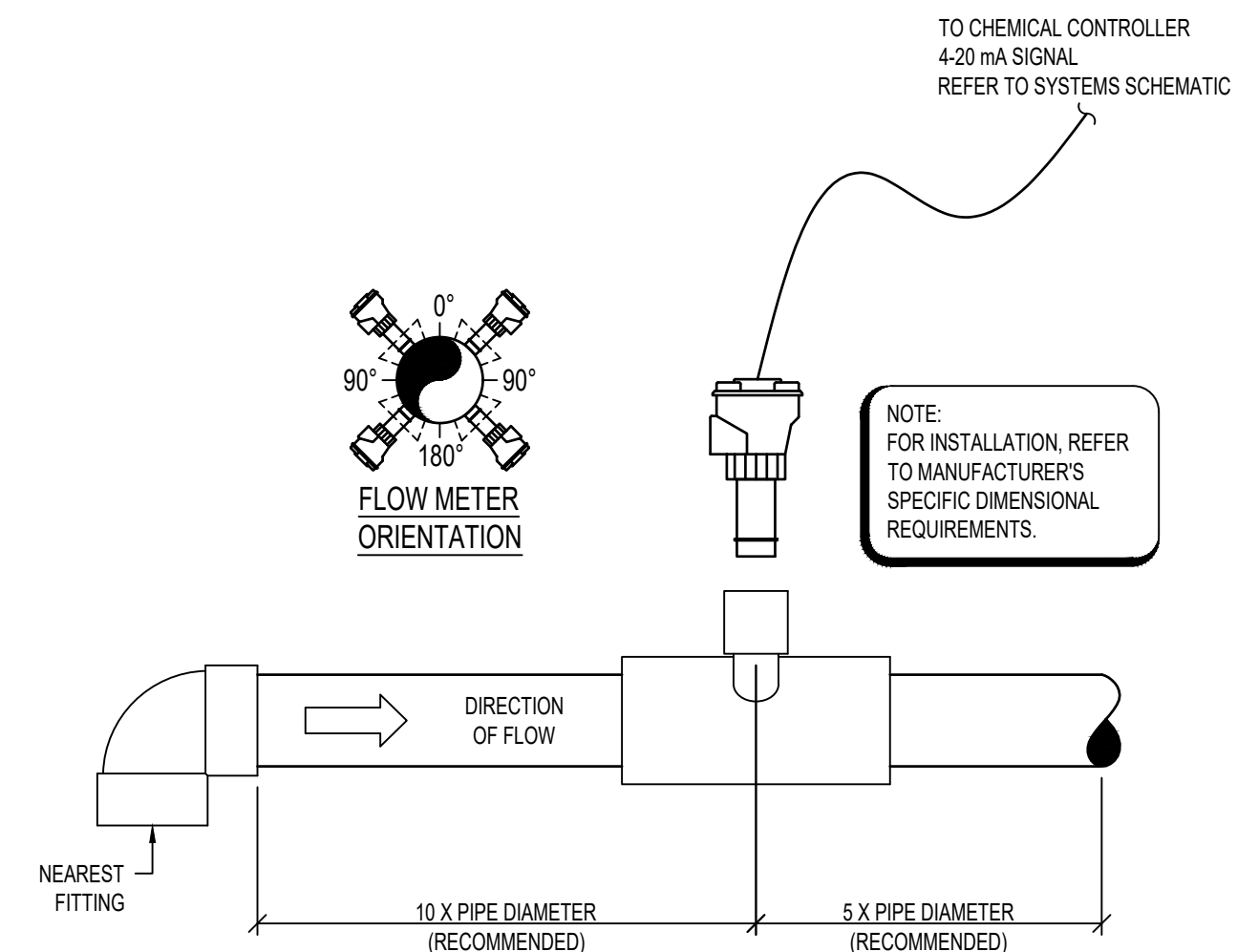


8 **CLEVIS PIPE HANGER**
AQ503 1 1/2" = 1'-0"



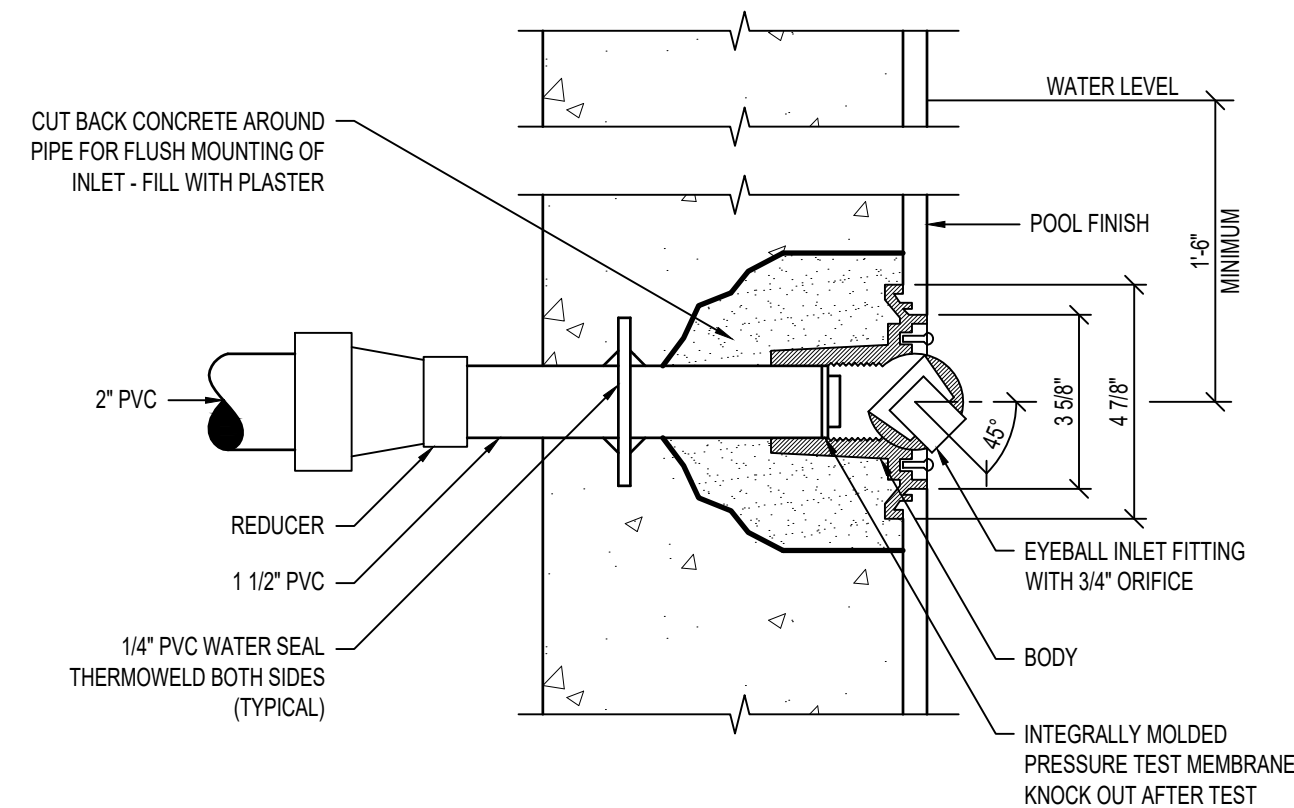
- NOTE:
- LINK SEAL BOLTS AND SEAL ELEMENT MUST BE ACCESSIBLE FOR ROUTINE MAINTENANCE AND TIGHTENING.

5 **LINK SEAL**
AQ503 3/4" = 1'-0"

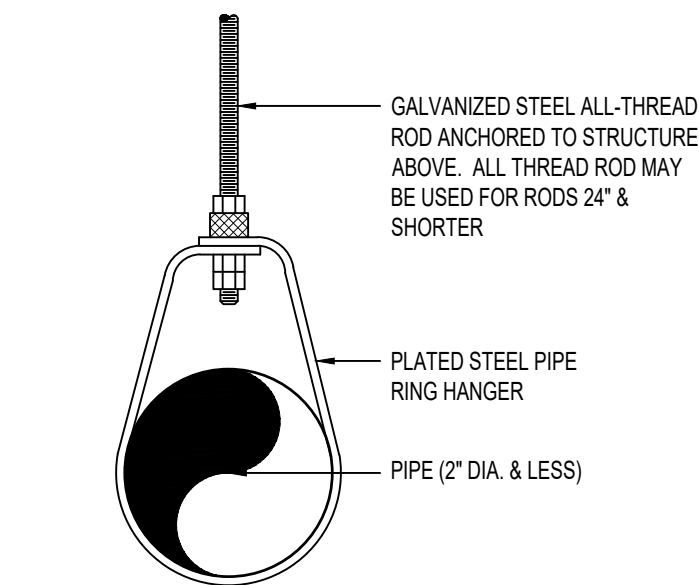


- NOTE:
- FOR INSTALLATION, REFER TO MANUFACTURER'S SPECIFIC DIMENSIONAL REQUIREMENTS.

2 **FLOW METER SENSOR**
AQ503 3/4" = 1'-0"

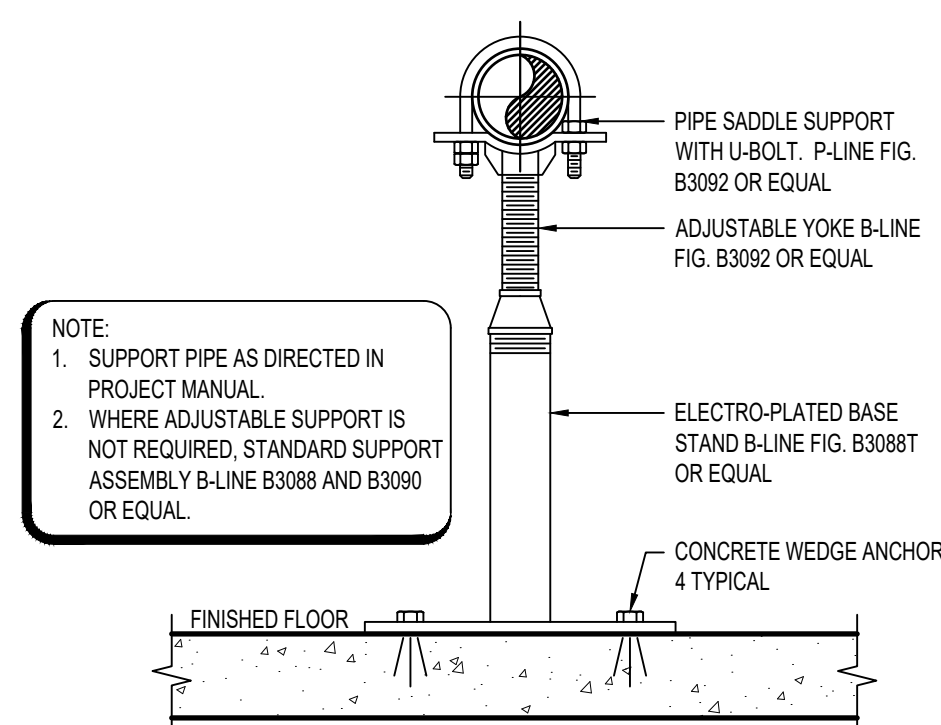


12 **WALL INLET**
AQ503 3" = 1'-0"



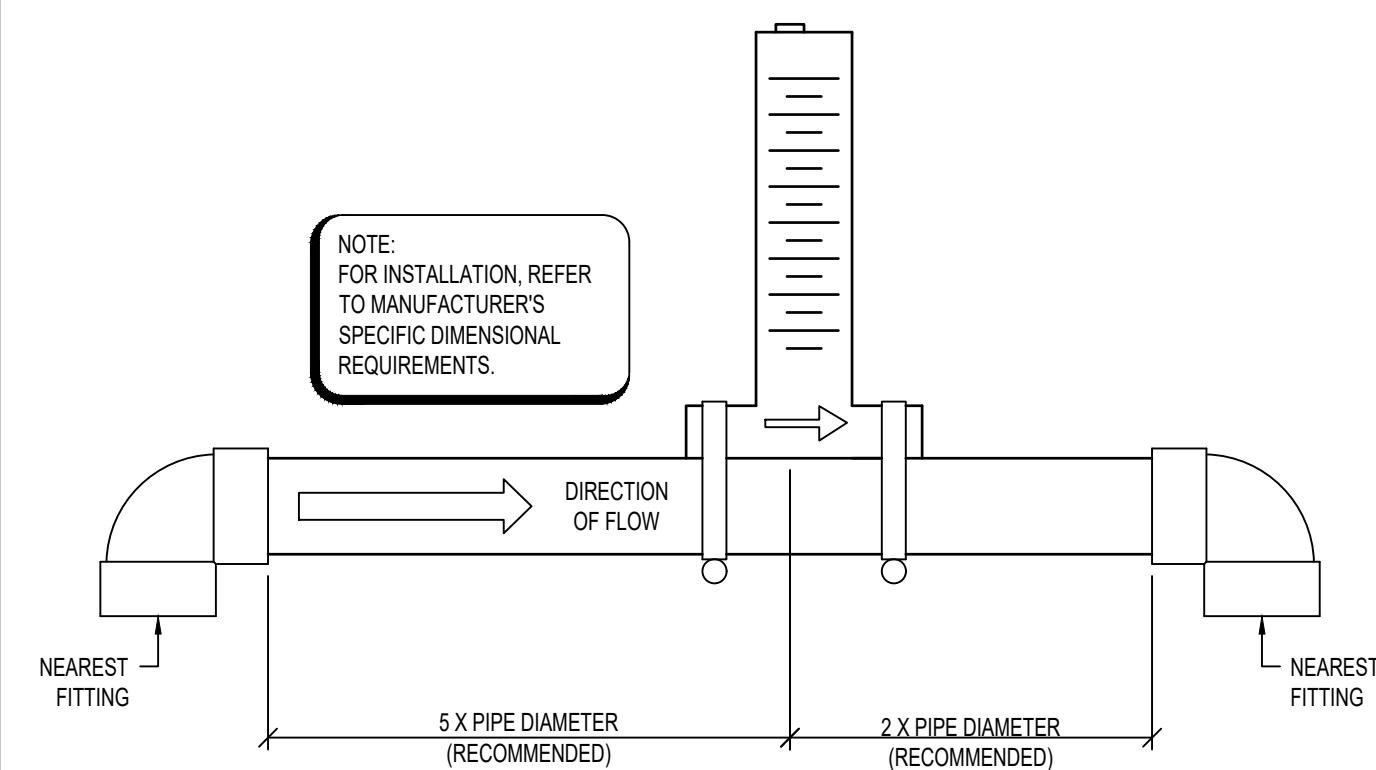
- NOTE:
- BASIS OF DESIGN: COOPER B-LINE. ALTERNATE MANUFACTURER GRINELL OR APPROVED EQUAL.

9 **SWIVEL RING PIPE HANGER**
AQ503 1 1/2" = 1'-0"



- NOTE:
1. SUPPORT PIPE AS DIRECTED IN PROJECT MANUAL.
 2. WHERE ADJUSTABLE SUPPORT IS NOT REQUIRED, STANDARD SUPPORT ASSEMBLY B-LINE B3088 AND B3090 OR EQUAL.

6 **FLOOR MOUNTED PIPE SUPPORT**
AQ503 3" = 1'-0"

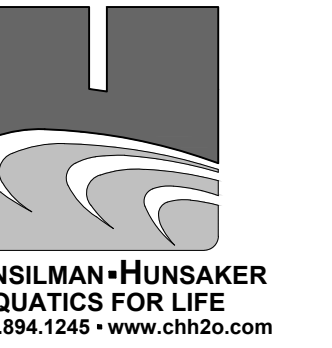


- NOTE:
- FOR INSTALLATION, REFER TO MANUFACTURER'S SPECIFIC DIMENSIONAL REQUIREMENTS.

3 **IMPACT FLOW METER**
AQ503 3/4" = 1'-0"



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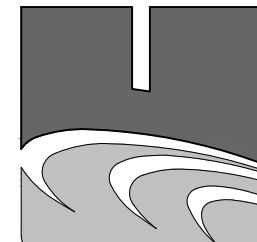
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SHEET #:
AQ503



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Mountain Recreation Eagle Pool

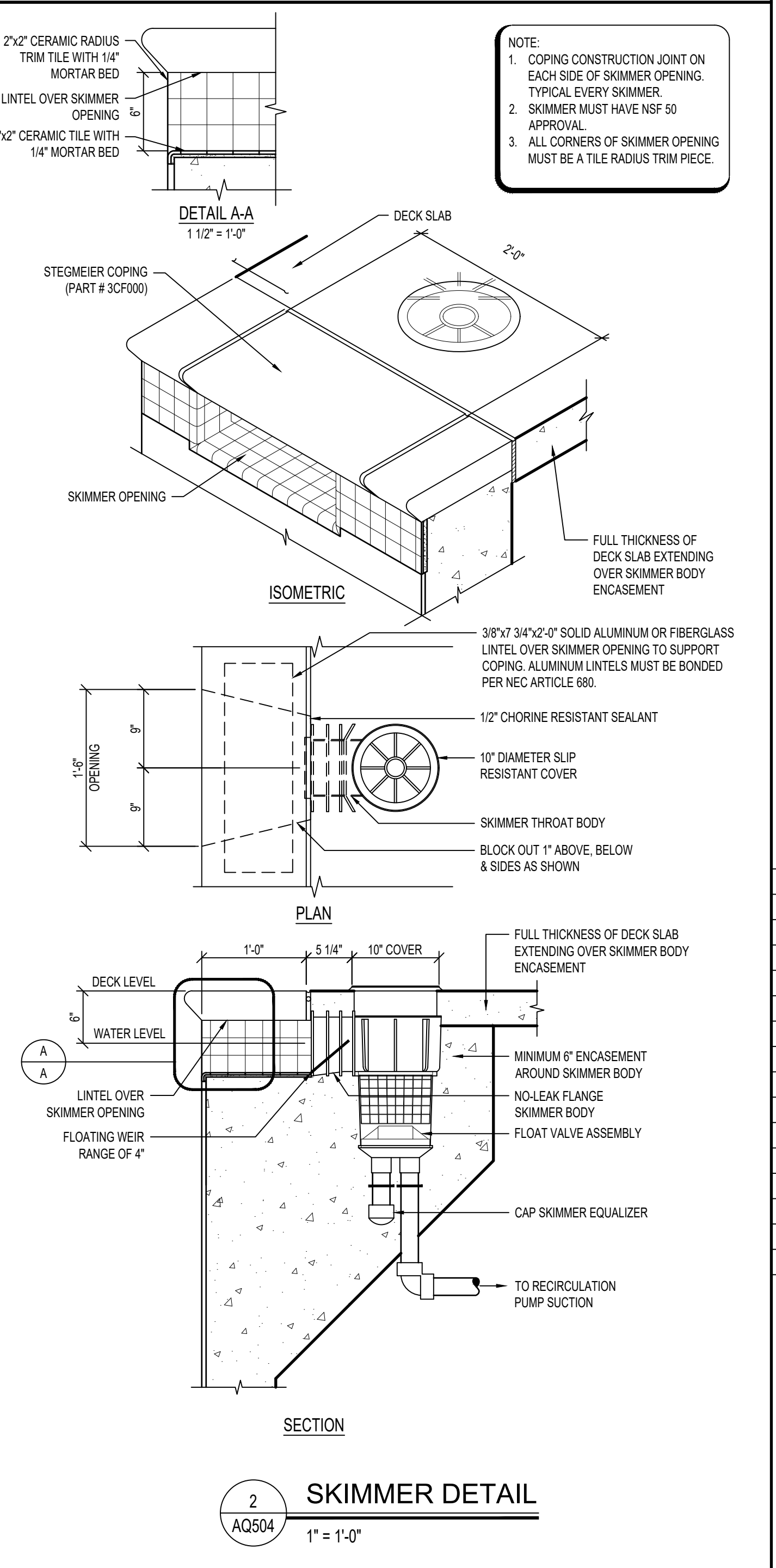
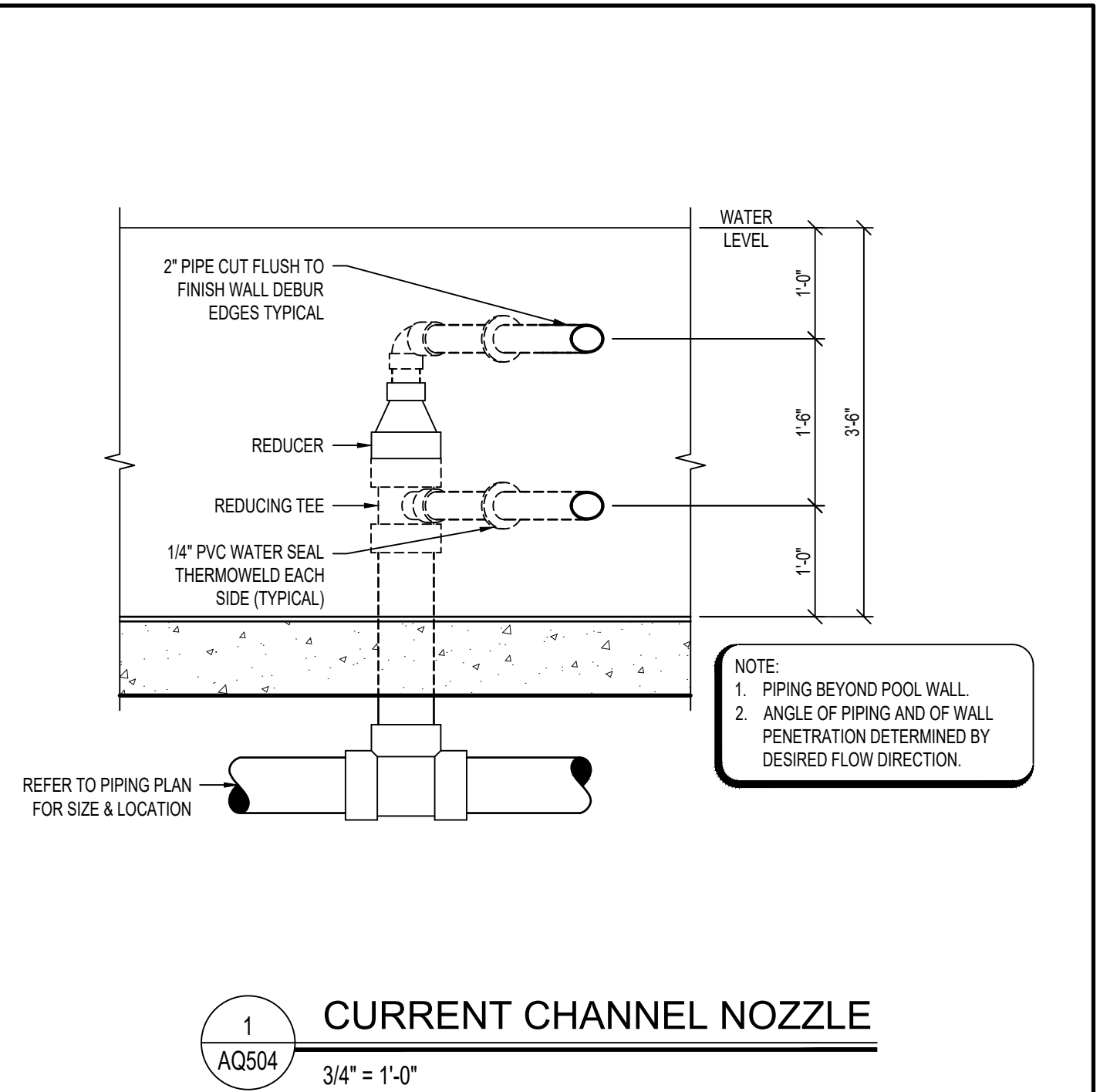
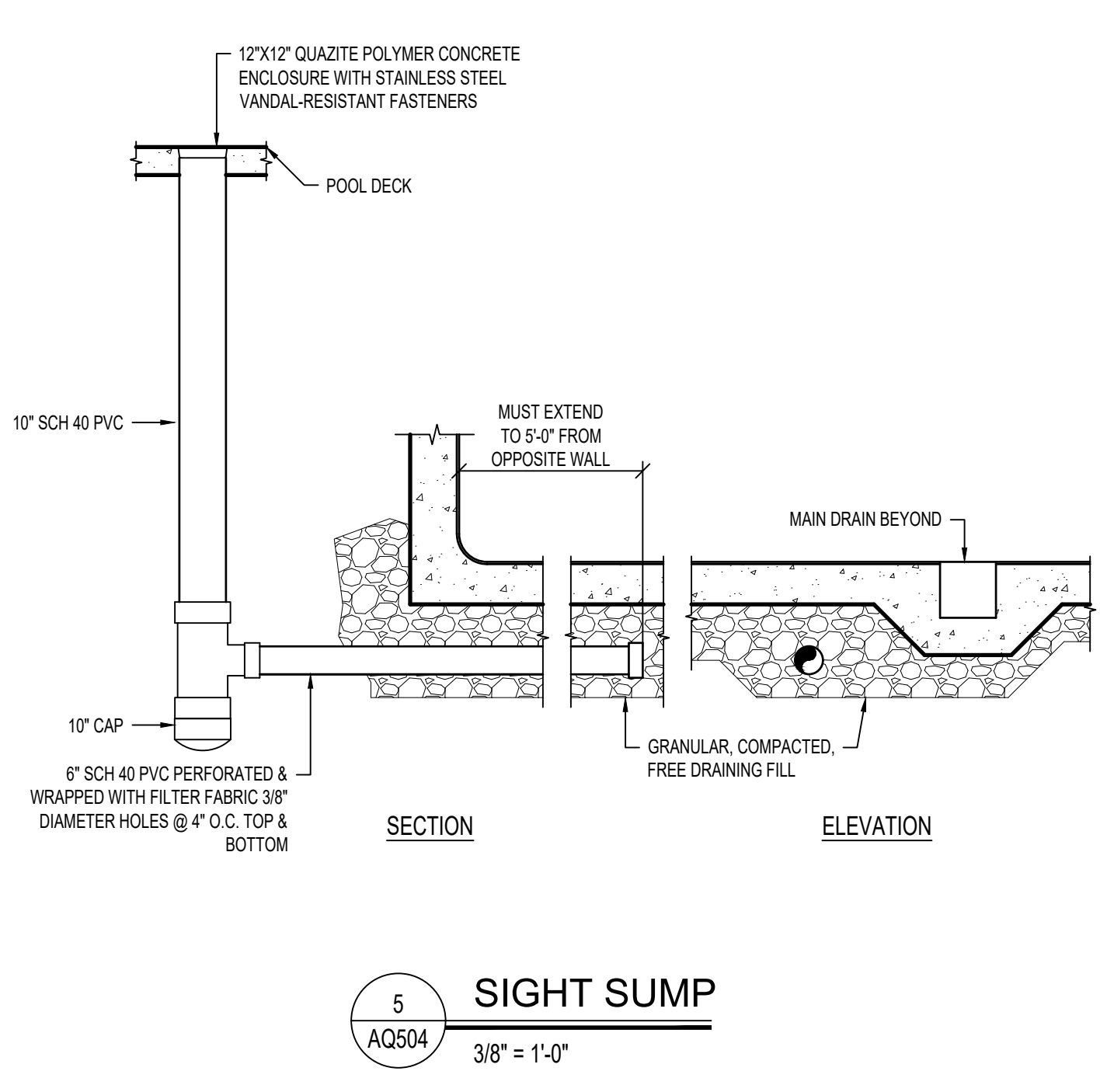
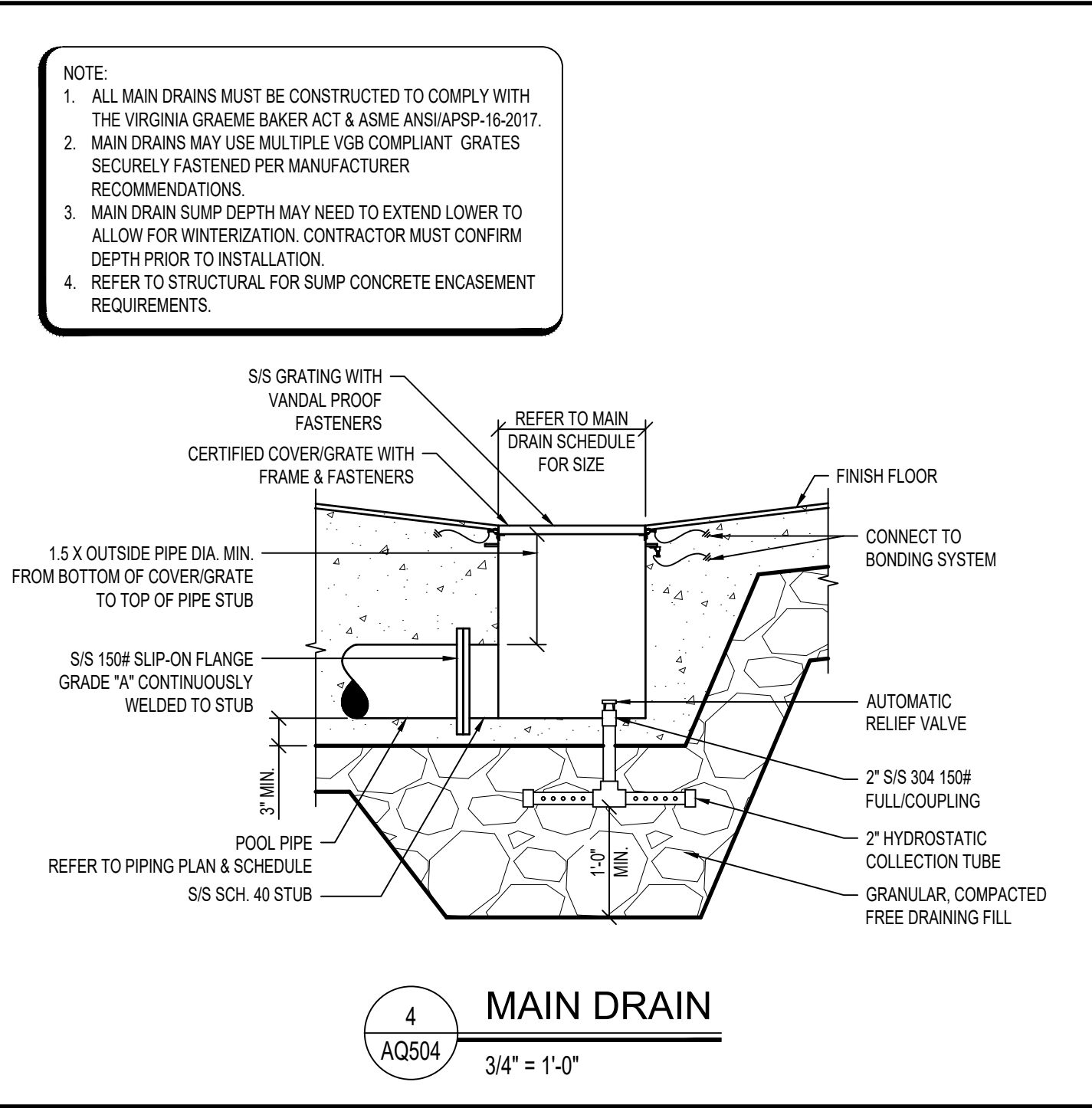
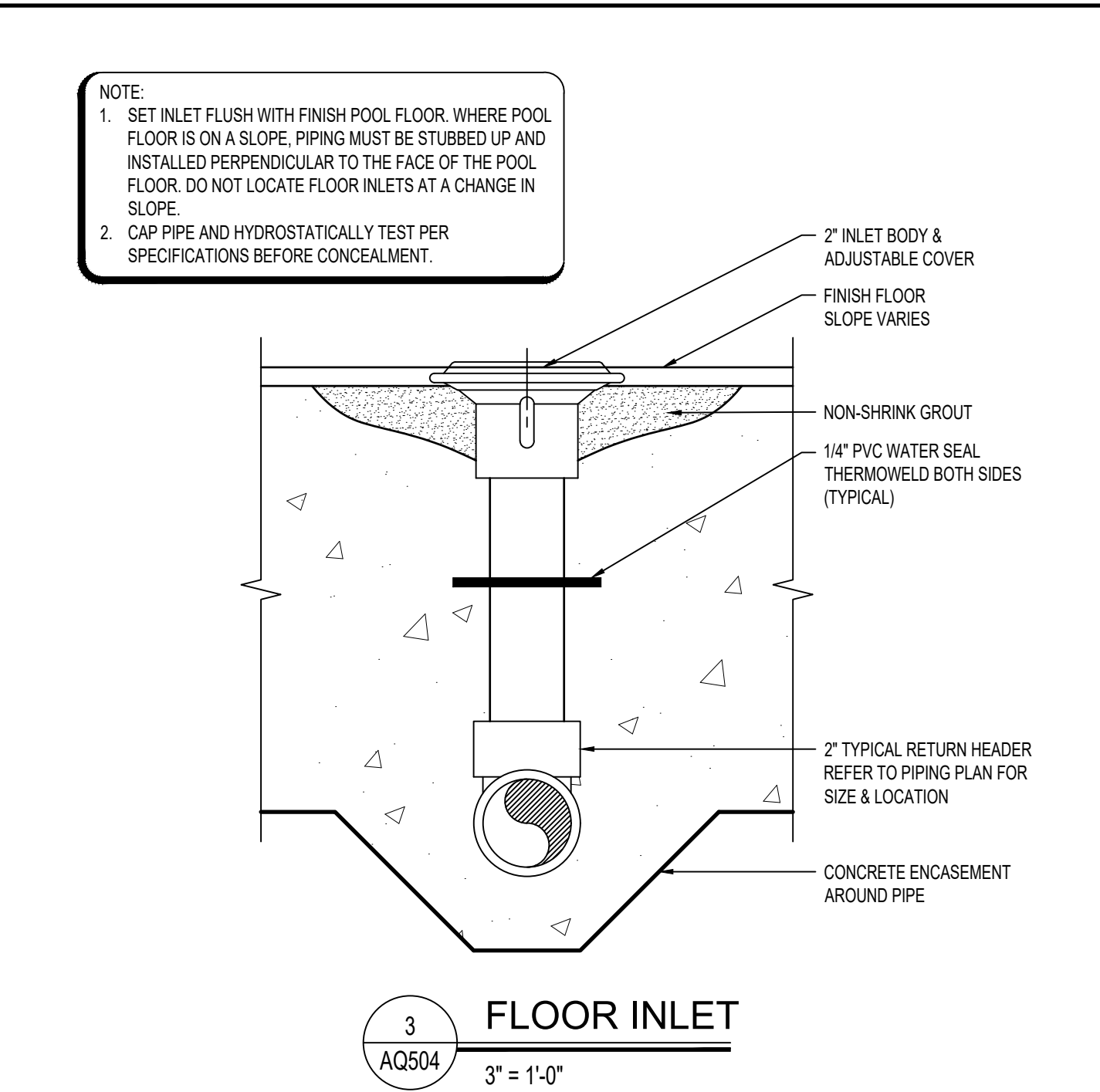
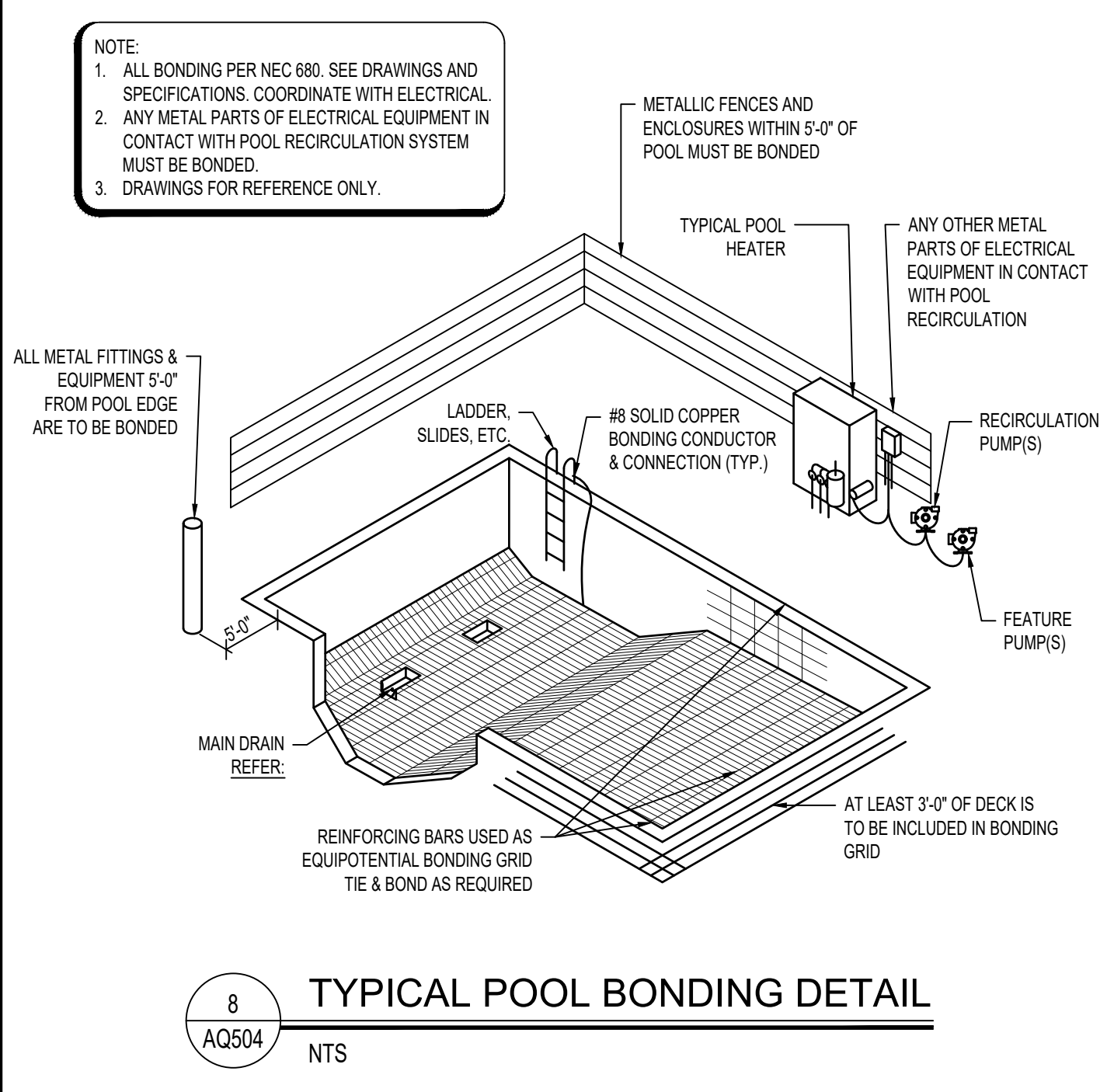
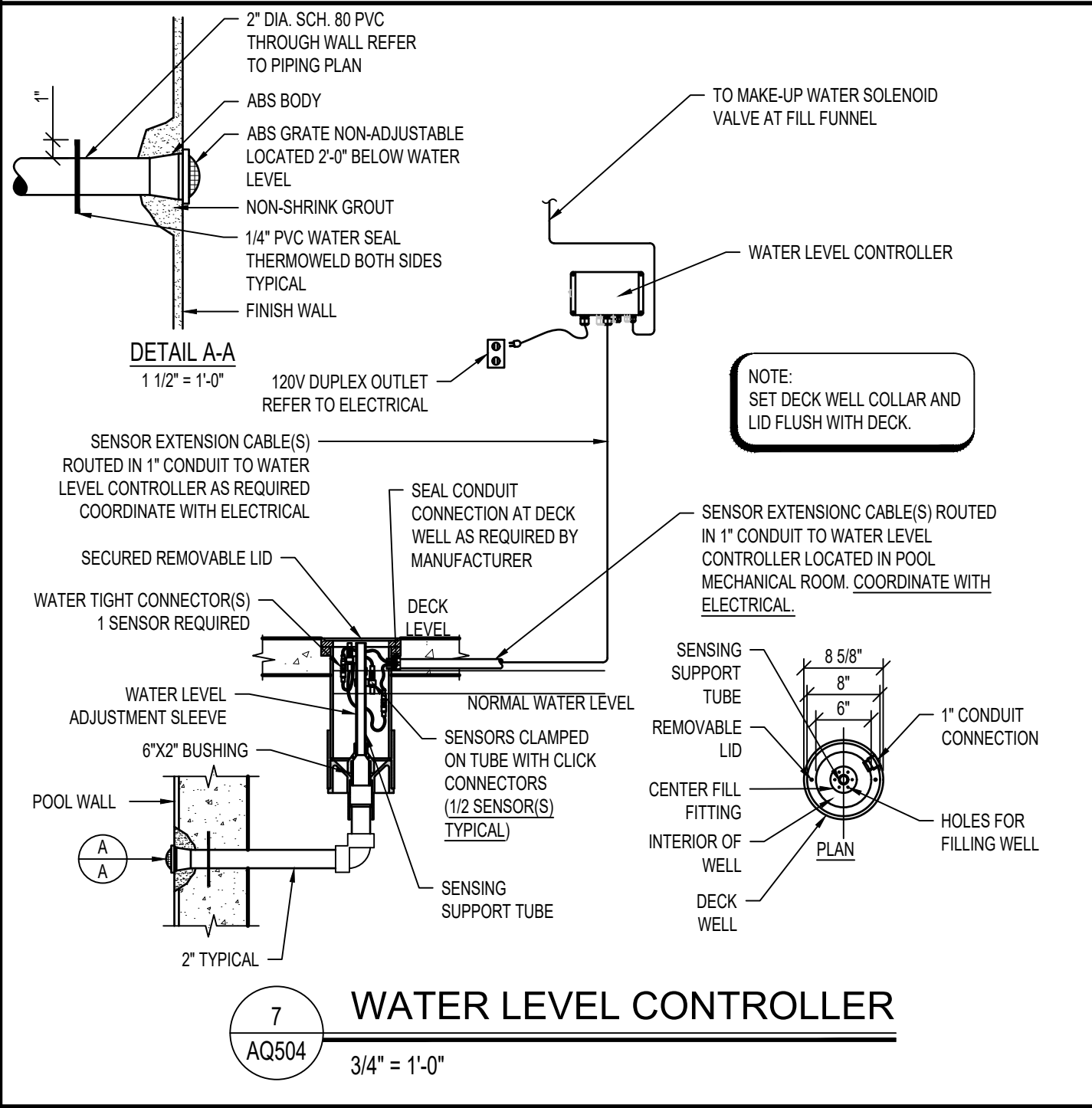
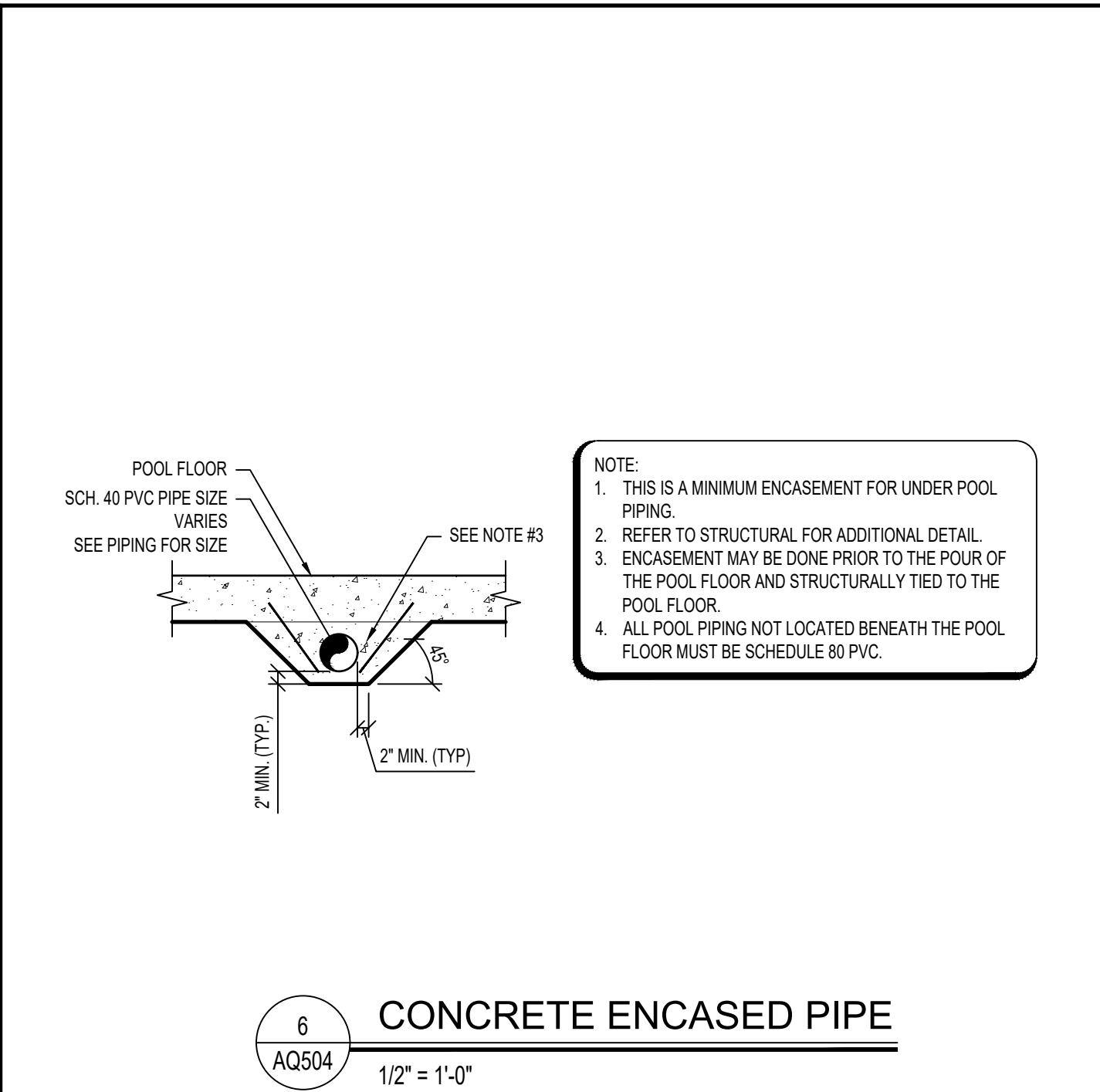
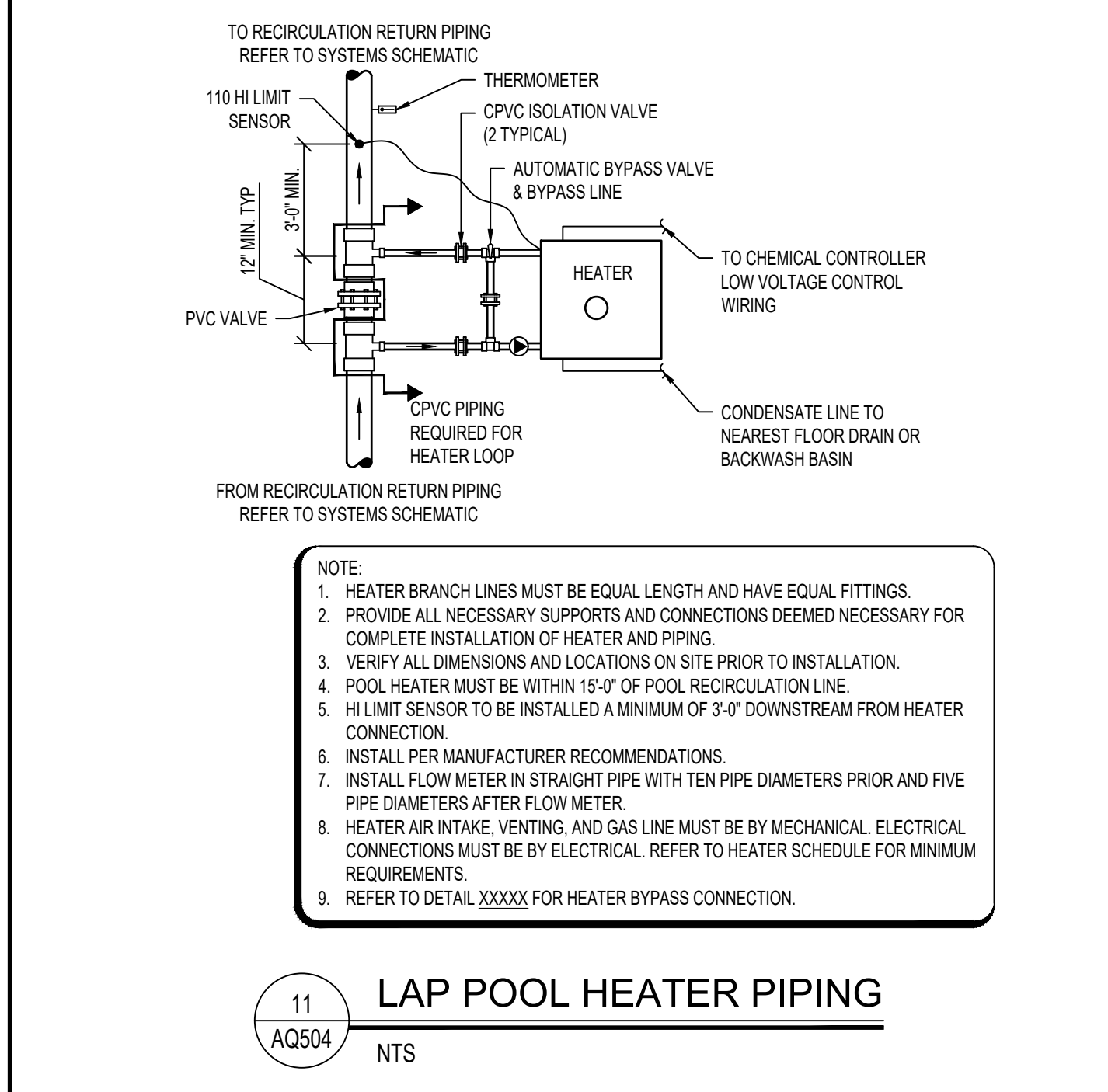
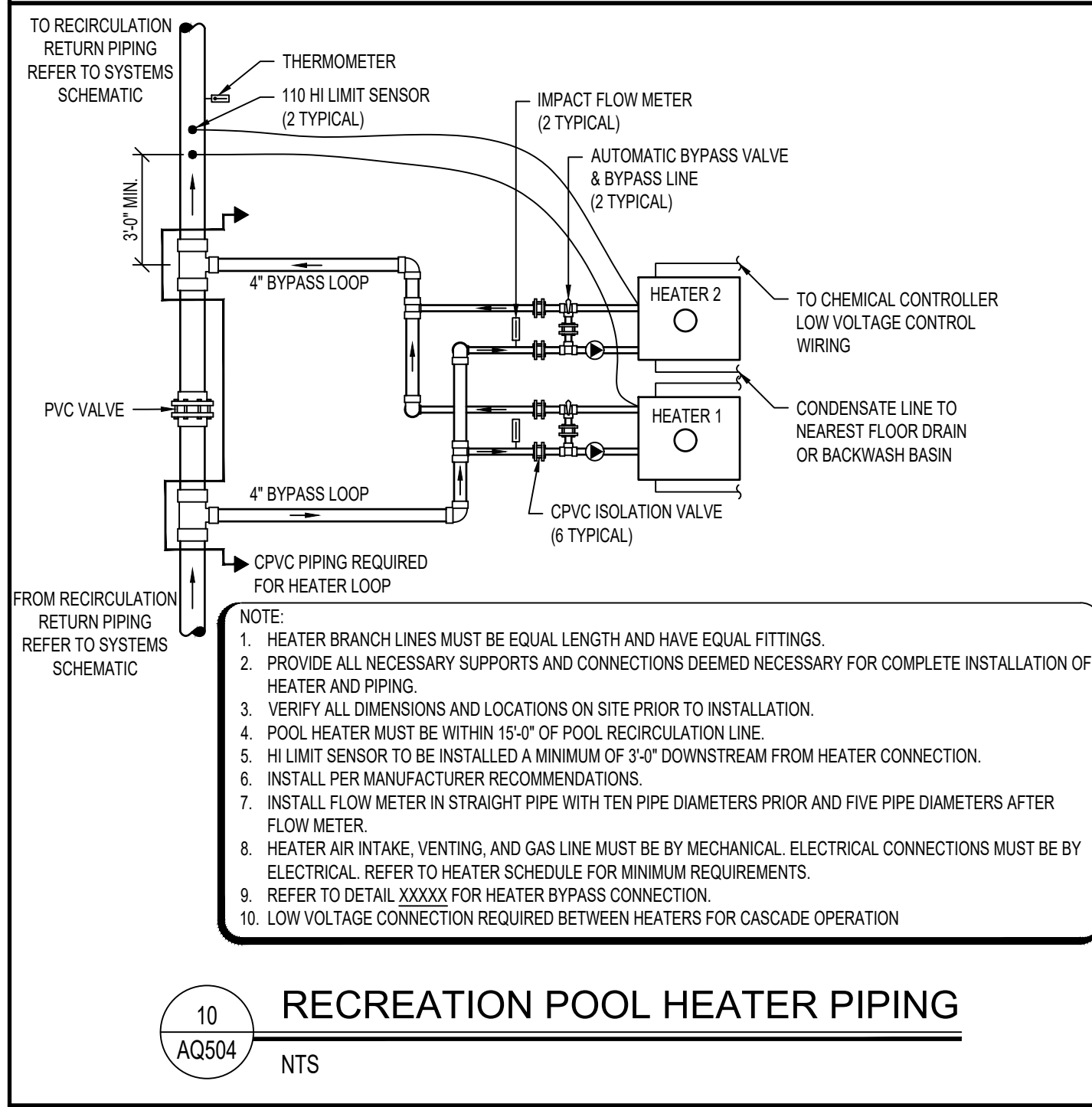
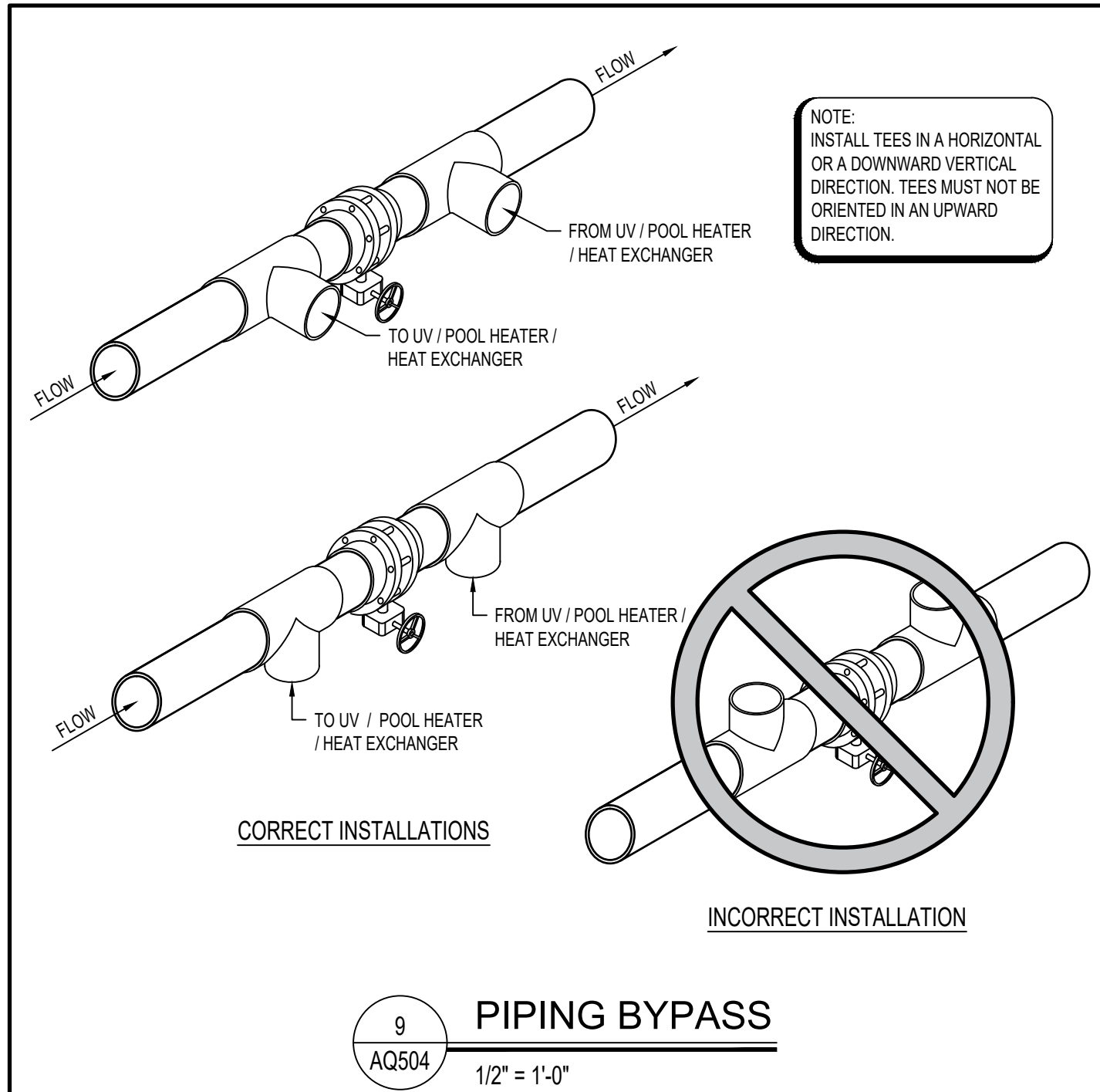
1700 Bull Pasture Rd, Eagle, CO 81631

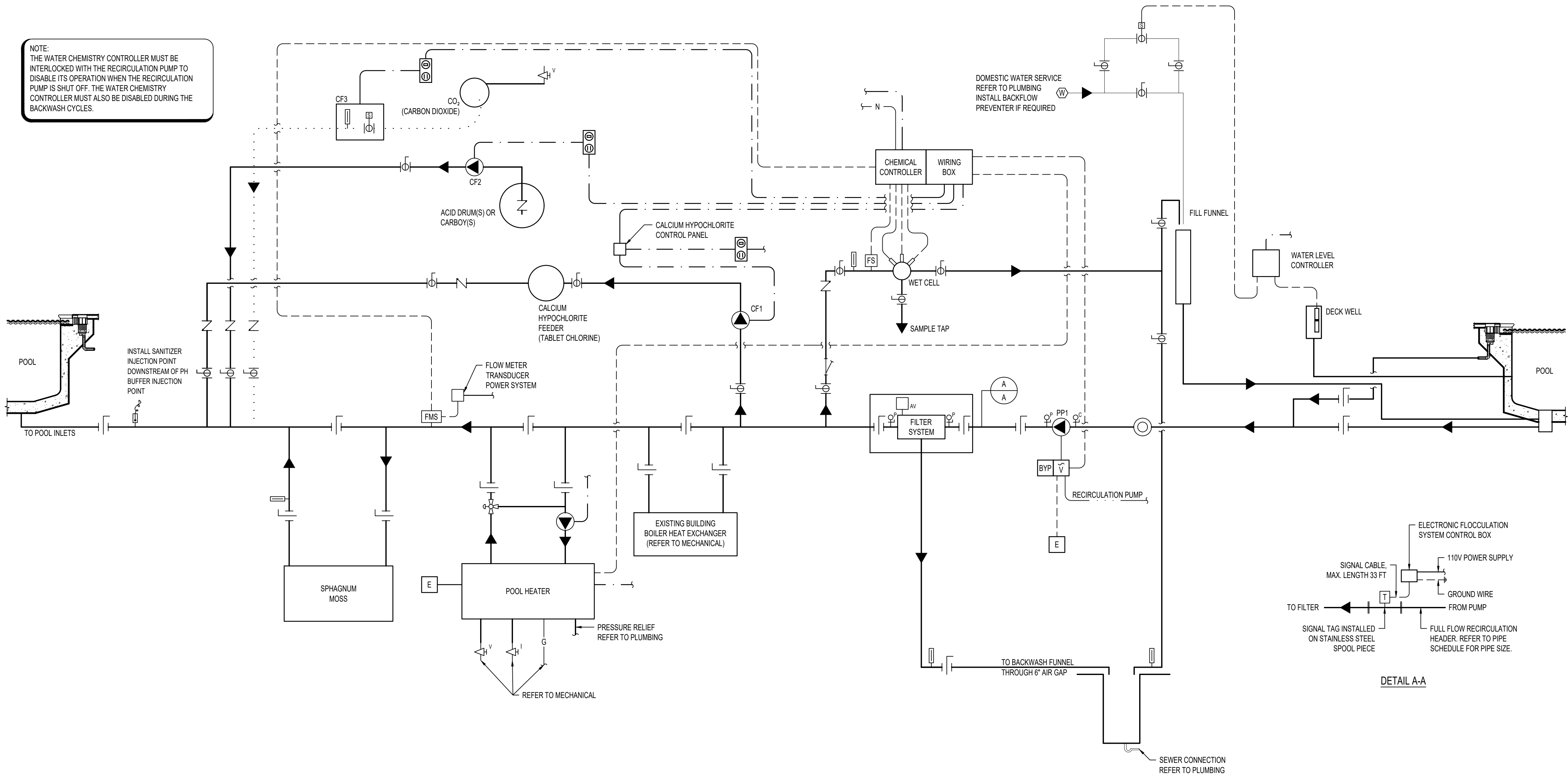
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AQ504

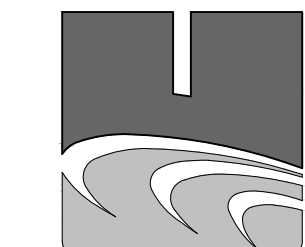




SCHEMATIC LEGEND	
LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT VALVE
	SOLENOID VALVE
	CHECK VALVE
	THREE WAY VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
	FLOW METER SENSOR
	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
	WATER METER
	AUTOMATIC AIR VENT
	AIR VENT
	AIR INLET
	PRESSURE GAUGE AND PETCOCK
	COMPOUND GAUGE AND PETCOCK
	DIGITAL TEMP SENSOR
	THERMOMETER
	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
	AUTOMATIC PUMP SHUT-OFF DEVICE
	VARIABLE FREQUENCY DRIVE
	REMOTE START/STOP
	EMERGENCY STOP
	VARIABLE FREQUENCY DRIVE BYPASS
	CONTACT MOTOR SELECTOR
	ELECTRONIC FLOCCULATION SIGNAL TAG
	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO ₂ LINE
	NETWORK LINE BY ELECTRICAL
	GAS LINE



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SCALE: AS NOTED
ISSUE DATE: MARCH 22, 2024
PROJECT #: 23079
TITLE: LAP POOL SYSTEMS SCHEMATIC

SHEET #:

AQ600



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Mountain Recreation Eagle Pool

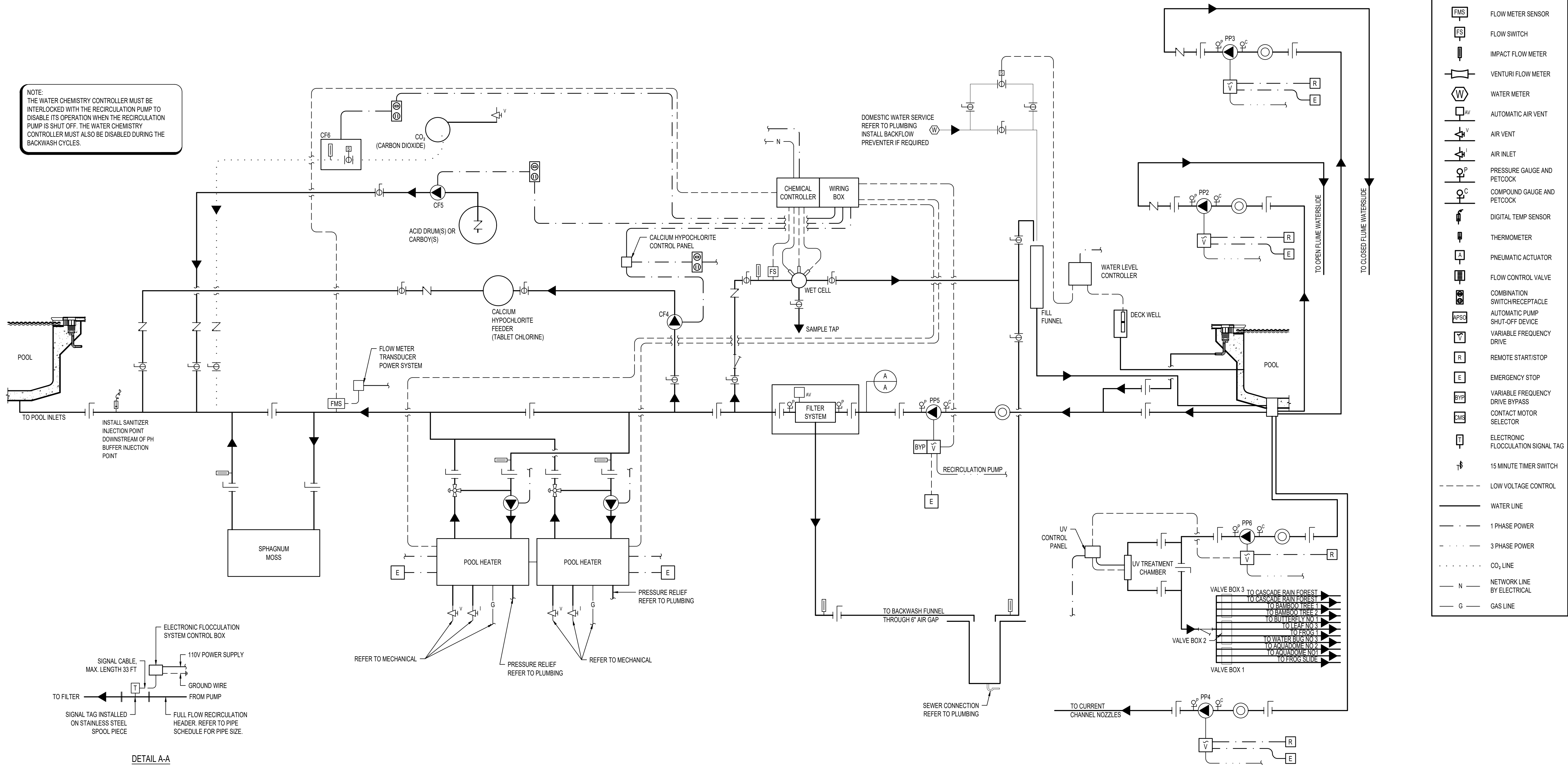
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SCALE: AS NOTED
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 PROJECT #: 23079
 TITLE: RECREATION POOL
 SYSTEMS SCHEMATIC

SHEET #

AQ601





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[illegible]

SCALE: 12" = 1'-0"

ISSUE DATE: 03/22/2024

PROJECT #: 2023-493.001

TITLE: **GENERAL NOTES**

SHEET #:

S-001

General Structural Notes:

Description:

This structural design project involves a single story building addition to the existing rec center building along with the foundations for the new exterior pools and aquatic equipment. Structural Engineering scope of services for the project includes the design and documentation of the primary structural systems. The primary structural systems are the components of the primary load bearing structure of the building including footings, foundations, structural slabs on grade, columns, girders, beams, joists, wind or seismic bracing, structural decking, and sheathing. Basic scope of services does not include design of typically performance specified elements, design of non-structural elements, design of typical manufacturer designed elements, or site development structures. Delegated design elements for this project are listed below and include the soil improvements beneath slabs and footings, Structural Steel Connections, and Stairs and Railings.

Design Criteria:

Code Edition:

2021 IBC (International Building Code) and Town of Eagle Amendments

Loads used in design are as follows:

Dead Loads

Roof

Metal Roof Deck w/ insulation and membrane roofing

Collateral Load

Self-Weight of Structure + 10 psf

5 psf

Live Loads

Lobbies & 1st Floor Corridors

Offices

Office Area Partition Allowance

Corridors, Stairs, & Exit Ways

Catwalks & Equipment Access Platforms

Maintenance & Mechanical Rooms

Computer Rooms

Roofs

Handrails & railing systems

Handrails & railing systems

Fall Protection Systems

Decks and Balconies

100 psf

50 psf

15 psf

100 psf

40 psf

125 psf

125 psf

20 psf

200 lb at any point in any direction

50 plf in any direction

5000 lb

1.5 x load for the area served, not to exceed 100 psf

Snow Loads

Ground Snow Load

Snow Exposure Factor, Ce

Snow Load Importance Factor, Is

Typical Roofs Thermal Factor, Ct

Typical Flat Roof Snow Load

Unheated Roofs Thermal Factor, Ct

Unheated Flat Roof Snow Load

Drift and Sliding Snow Surcharge loading

65 psf

1.00

1.00

1.00

45 psf

1.20

54 psf

See Drift and Sliding Snow Surcharge Load Map

Wind Design Data

Analysis Procedure

Ultimate Wind Speed, Vult.

Nominal Wind Speed, Vasd.

Service Level Wind, 10 yr. MRI

Risk Category

Wind Exposure

Internal Pressure Coefficient

ASCE 7-16

115 mph

90 mph

76 mph

II

C

+/- 0.18

Exterior Component and Cladding Wind Pressures, (Strength Design Pressures)

Roof - Flat to 7 degrees

zone 1', 1, 2, & 3 roof positive pressure, < 10 sq. ft.

zone 1', 1, 2, & 3 roof positive pressure, > 100 sq. ft.

zone 1' roof negative pressure, < 100 sq. ft.

zone 1' roof negative pressure, > 1000 sq. ft.

zone 1 roof negative pressure, < 10 sq. ft.

zone 1 roof negative pressure, > 500 sq. ft.

zone 2 roof negative pressure, < 10 sq. ft.

zone 2 roof negative pressure, > 500 sq. ft.

zone 3 roof negative pressure, < 10 sq. ft.

zone 3 roof negative pressure, > 500 sq. ft.

overhang, zone 1 & 1' < 10 sq. ft.

overhang, zone 1 & 1', >100 sq. ft.

overhang, zone 1 & 1', >500 sq. ft.

overhang, zone 2 < 10 sq. ft.

overhang, zone 2, >500 sq. ft.

overhang, zone 3 < 10 sq. ft.

overhang, zone 3, >500 sq. ft.

Walls < 60 feet

zone 4 wall, <10 sq. ft.

zone 4 wall, >500 sq. ft.

zone 5 wall, <10 sq. ft.

zone 5 wall, >500 sq. ft.

+10 psf

+8 psf

-21 psf

-12 psf

-37 psf

-23 psf

-48 psf

-31 psf

-65 psf

-31 psf

-37 psf

-34 psf

-23 psf

-48 psf

-25 psf

-55 psf

-25 psf

+23 psf

+17 psf

+23 psf

+17 psf

-25 psf

-19 psf

-31 psf

-19 psf

Seismic Design Data

Analysis Procedure

Ss

S1

Site Class

Sds

Sd1

Risk Category

Seismic Importance Factor

Seismic Design Category

Seismic Force Resisting System(s)

ASCE7 Equivalent Lateral Force Procedure

0.348

0.08

C

0.302

0.08

II

1.00

B

Horizontal and Vertical Combinations of Intermediate Reinforced Masonry Shear Walls and Steel Not Specifically detailed for Seismic Resistance. Designed to Requirements for Lowest R Value System

Design Base Shear

Building:

XXX kips

Seismic Response Coefficient, Cs

Response Modification Coefficients, R

INT. REINFORCED MASONRY SHEAR WALLS

STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

LOWEST R VALUE USED FOR DESIGN =

XXX

4

3

3

Deflection

Typical Metal Stud Wall Lateral Deflection

Metal Stud Wall Lateral Deflection w/ Masonry Veneer

Floor Live Load Deflection

Roof Live/Snow Load Deflection

Total Load Deflection (including Creep)

Building Lateral Drift, Service Level Wind Load, 10 yr. MRI

Building Lateral Drift, Seismic Load

L/360

L/600

L/600

L/360

L/240

H/400

H/100

Geotechnical Design Data

Frost Depth

48 inches

Geo-Technical Information

1 The foundation design was prepared in accordance with the geotechnical supplemental report by Wiss, Janney, Elstner Associates, Inc., dated November 30, 2023, job number 2022.4162.1. Proposed foundation and floor support is on soil improvements designed by others. All compaction grouting shall be designed for a 1 inch maximum settlement and 1/2 inch maximum differential settlement. Slab on grade floors shall be supported on soil improved by compaction grouting. The allowable bearing pressure for the building addition is XXXX psf. Modulus of subgrade reaction used for the pool mat foundation is k = 20 kcf in order to be within 1/2"-1" deflection.

Soil Improvements - Delegated Design:

1 Compaction Grouting Soil improvement methods beneath spread footings and slab on grade floor areas shall be designed and constructed for the bearing pressures indicated. Calculations and shop drawings, shall be signed and sealed by an Engineer registered in the project state experienced in the design and construction of drilled concrete piers. Submit calculations, shop drawings, test results, and material specifications to the Engineer for review.

Reinforcing Steel:

1 All reinforcement detailing, fabrication and placement shall conform to the ACI Details and Detailing of Reinforcement (ACI 315).

2 Unless noted otherwise, all reinforcing bars shall be of deformed bars conforming to ASTM A615, Grade 60. Welded reinforcing bars shall be ASTM A706, Grade 60.

3 Welded wire fabric shall conform to ASTM A185, Grade 60 and be lapped a minimum of one full mesh plus two inches at side and end splices and be wired together.

4 Reinforcement shall be the longest lengths practical. Where splices are necessary, lap splices shall be a minimum of 60 bar diameters for Grade 60 reinforcing and 40 bar diameters for Grade 40 reinforcing, unless noted otherwise. Do not weld or use mechanical splicing.

5 At corners make bar continuous through discontinuity or provide corner bars with a full length lap splice each side of corner.

Reinforced Concrete:

1 All structural concrete for the building addition has been designed in accordance with ACI 318. All structural concrete for the pool shell has been designed in accordance with ACI 350. All structural concrete construction work shall conform to ACI 301 and ACI 350 unless noted otherwise.

2 Cast in place concrete shall conform to CDOT Class D unless noted otherwise. Admixtures containing chloride salts shall not be used. All concrete walls and slabs (including slabs on metal deck) exposed to the weather and garage floor slabs shall have 6% of entrained air. Concrete shall have minimum 28 day compressive strengths of:

Element:

Minimum Compressive Strength, fc

Interior Slabs on Grade:

4500 psi

Pool Shell Walls and Slabs:

5000 psi

Concrete exposed to weather and salts:

5000 psi

All other cast in place concrete:

4500 psi

3 Structural Normalweight Concrete shall have a maximum in place unit weight of 150 pounds per cubic foot.

4 Concrete coverage for reinforcing steel shall provide the following (minimums unless noted otherwise):

Unformed surfaces poured permanently against earth:

3 inches

Formed surfaces exposed to earth, weather, or fluid:

#5 bar or less:

1 1/2 inches

#6 bar or greater:

2 inches

Not exposed to earth, weather, or fluid:

Slabs and walls, interior face:

1 inch

Beam and columns

1 1/2 inches

5 Hot and cold weather concreting procedures shall conform to the recommendations in the ACI manual of Concrete Practice.

6 Bolts for beam and column bearing plates shall be set with templates.

7 Contractor shall coordinate all embeds, penetrations, openings, and verify all plan dimensions prior to forming and pouring concrete.

8 Construction joints shall be laid out to minimize the number of construction joints in each individual structure. Construction joints in walls shall not occur where it would divide additional corner or intersection reinforcement.

Grout:

1 All grout beneath column base plates and steel beams at bearing shall be non-shrink, non-metallic type grout.

2 Grout shall have a minimum compressive strength of 5000 psi.

Structural Masonry:

1 Masonry design assumptions require that all construction is in accordance with Level B quality assurance requirements of the Building Code Requirements for Masonry Structures, TMS 402/ACIS300/ASCE5

2 Load bearing masonry shall be hollow lightweight concrete masonry units conforming to ASTM C90. Exterior walls and walls below grade shall be grade-N-1. Interior walls not exposed to weather or earth may be grade N-1 or S-1. Unit strength shall be 1800 psi.

3 Mortar shall conform to ASTM C270 and shall be Type S with a minimum cube strength of 2000 psi. Do not use masonry cement or admixtures unless approved by the structural engineer.

4 Grout shall be coarse grout with a minimum cube strength of 2000 psi. Admixtures shall not be used unless approved by the structural engineer.

5 Minimum prism strength of masonry wall assemblies shall be F'm = 2000 psi.

6 Unless noted otherwise, conform to the grout space and height limitations set forth in ACI 530.

7 Bond Beam units shall be produced from standard vertically voided units with pre-cut knock out cross walls.

8 All masonry shall be laid up in running bond with exposed joints tooled.

9 Use continuous horizontal joint reinforcing in all masonry walls, consisting of 9 gauge side wire welded to 9 gauge ladder type wire. Width of joint reinforcing shall be approximately 2 inches less than width of wall. Provide prefabricated corners and tees. Wire shall conform to ASTM specification A-62. Maximum vertical spacing of joint reinforcing shall be 16 inches.

10 Provide 1/2 inch clearance or expansion material between masonry and other structural elements, unless noted otherwise.

11 Vertical control joints shall be provided full height of masonry walls at:

At all changes in wall height.

At all changes in wall thickness.

At all expansion joints in foundations, floors, and roofs.

Spaced 1 1/2 times wall height to a maximum of 25 feet.

12 Construct control joints as continuous head joints with mortar raked 3/4 inch at both faces and 50% of the horizontal joint reinforcing cut at the joint. Bond beam reinforcing and grout shall continue through the joint.

13 Expansion joints shall be a full structural separation for the full height of the masonry wall.

14 Masonry walls, including site walls shall have a continuous horizontal bond beam consisting of (2)-#5 bars and solid grout at the top of the wall, roof, or floor elevations, and at 8'-0 maximum vertical spacing.

15 Openings in masonry walls shall be reinforced with a #5 bar in a vertical grouted cell each side of openings up to 10'-0 wide. Openings greater than 10' wide shall have 2 vertical grouted cells with #5 reinforcement. Extend reinforcing and grout 2'-6 past opening on all sides.

Concrete and Masonry Anchors:

1 Anchor bolts are to be ASTM F1554, Grade 36 headed anchor bolts, unless noted otherwise. Embedment shall be a minimum of 16 times anchor diameter unless noted otherwise.

2 Expansion Bolts are to be Kwik Bolt TZ manufactured by Hilti, Inc. unless noted otherwise. Install in accordance with ICC Report ESR-917 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.

3 Epoxy grouted anchors installed in concrete are to be HIT-Z anchor rods or HAS threaded rods or reinforcing steel installed using HY-200 Adhesive Anchoring System manufactured by Hilti, Inc. Install in accordance with ICC Report ESR-3187 or approved update, including standard embedment depths, unless noted otherwise. Proposed substitutions shall have equal or greater capacity and shall be submitted to the engineer for review with product data and code approval reports.

Structural Steel:

1 Structural steel shall be detailed, fabricated, and erected in accordance with the latest provisions of AISC Manual of Steel Construction.

2 Structural steel rolled shapes shall conform to ASTM A992, Grade 50 for wide flange and channel members, and ASTM A36, Grade 36 for angles and plates. Tube shapes shall conform to ASTM A500 Grade C. Pipe columns shall conform to ASTM A53, Grade B. The latest editions of the requirements shall be used.

3 All structural bolts used in steel framing shall be ASTM F3125, Grade A325 - N installed to a minimum snug tight condition, unless noted otherwise.

4 Typical framed beam connections shall be bearing type with 3/4 inch diameter bolts, detailed in conformance with the structural drawings and the AISC Steel Construction Manual unless noted otherwise.

5 All welding shall be performed by an AWS qualified welder.

6 Delay painting within 3" of field welds until welds are completed.

Steel Joists - Deferred Submittal:

1 Joists and Joist Girders shall be designed to support the loads as shown. Loading information is provided in the General Notes, in loading diagrams and schedules, and in the sections and details. Design calculations shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.

2 Steel joists shall be designed, fabricated and erected in accordance with the Steel Joist Institute's Standard Specification for Open Web Steel Joists, K series, K-10, or Standard Specification for Longspan Steel Joists, LH series and Deep Longspan Joists, DLH series, LH/DLH-10.

3 Joist Girders shall be designed, fabricated and erected in accordance with the Steel Joist Institute's Standard Specification for Joist Girders, JG-10.

4 End bearings, chord extensions, and other bearing details shall be as indicated on the structural plans. Bridging, bracing, and other accessories shall be in accordance with SJI requirements.

Cold Formed Steel Framing - Deferred Submittal:

1 Cold formed steel framing shall be designed for loads given. Calculations and shop drawings shall be signed and sealed by an Engineer registered in the project state. Submit calculations and shop drawings to the Engineer for review.

2 Cold formed steel framing design and construction shall conform to the AISI S100-16 North American Specification for the Design of Cold-Formed Steel Structural Members.

3 Minimum yield strength (Fy) for cold formed steel framing members shall be 33000 psi for 18 Gauge (43mils) and thinner. Minimum yield strength (Fy) shall be 50000 psi for 16 Gauge (54 mils) and thicker.

4 All cold formed steel studs, trusses, track, bridging and accessories shall be formed from steel having a G-60 galvanized coating conforming to ASTM A653 and C955.

Steel Deck:

1 Steel roof and floor deck shall be the depth, gauge, and rib type indicated on the plans and fabricated from sheet steel conforming to ASTM A611 or A446 with a minimum yield strength of 50 ksi. If substitutions are desired, contact structural engineer.

2 Decking shall be manufactured and erected in accordance with the standard recommendations of the Steel Deck Institute with welding patterns and details as indicated in the manufacturer's shop drawings. Required diaphragm shear values or connection patterns shall be as indicated on the structural plans.

3 Decking shall be finished by phosphatizing and painting with a baked on acrylic primer. Decking used as a concrete form shall be phosphatized but not painted on the side in contact with the concrete.

4 Openings larger than 6 inches in diameter shall be approved by the structural engineer prior to being cut in the decking.

5 Welding washers shall be used for decking with a thickness of less than 18 gauge.

6 Decking shall be installed in a 3-span condition minimum.

General Requirements:

1 Structural erection and bracing: The structural drawings illustrate the completed structure with all elements in their final positions supported and braced. The contractor, in the proper sequence, shall provide shoring and bracing as may be required during construction to achieve the final completed structure. Contact engineer for consultation (not in contract) as required.

2 Shop drawings: Submit shop and erection drawings for all deep foundations and soil improvements, structural steel, structural aluminum, miscellaneous steel, steel joists and girders, steel deck, masonry and concrete reinforcing steel to the engineer to review prior to fabrication. This review is for general compliance with the intent of the structural design. The manufacturing or fabrication of any items prior to written review of the shop drawings will be at the risk of the contractor. The architect and/or contractor are responsible for checking quantities, dimensions and coordination with other trades.

3 Dimensions: Check all dimensions against field and architectural drawings prior to construction. Do not scale drawings.

4 Construction practices: The general contractor is responsible for means, methods, techniques, sequences and procedures for construction of this project. Notify structural engineer of omissions or conflicts between the working drawings and existing conditions.

5 Coordinate requirements for mechanical/electrical/plumbing penetrations through structural elements with structural engineer. Prior to installation of such equipment or other items to be attached to the structure, the contractor shall obtain approval for connections and support. Contractor shall furnish required hangers, connections, etc. required for installation of such items, unless specifically noted on plans.

6 Jobsite safety is the sole responsibility of the contractor. All methods used for construction shall be in accordance with the latest edition of the IBC.

7 The structural engineer may make periodic observation visits to the jobsite for determination of general conformance with the construction documents. Such observation visits shall not replace required inspections by the governing authorities or serve as "special inspections" as may be required by the International Building Code.

8 Though every effort has been made to provide a complete and clear set of construction documents, discrepancies or omissions may occur. Release of these drawings anticipates cooperation and continued communication between the contractor, architect and engineer to provide the best possible structure. These drawings have been prepared for the use of a qualified contractor experienced in the construction techniques and systems depicted.

Deferred Submittals:

1 When received and reviewed by the Engineer of Record, the following submittal items will be submitted to the building official for review and approval:

Soil Improvements

Structural Steel Connections

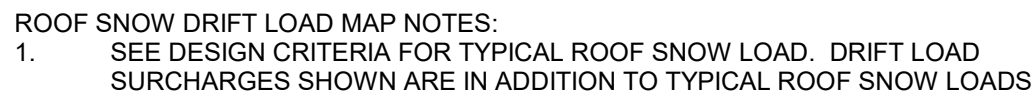
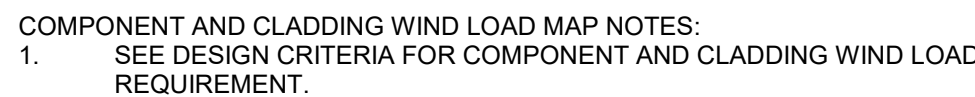
Stairs and Railings



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: 1/8" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: LOADING MAPS

S-004


$$1/8'' = 1'-0''$$

$$1/8'' = 1'-0''$$



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Mountain Recreation Eagle Pool

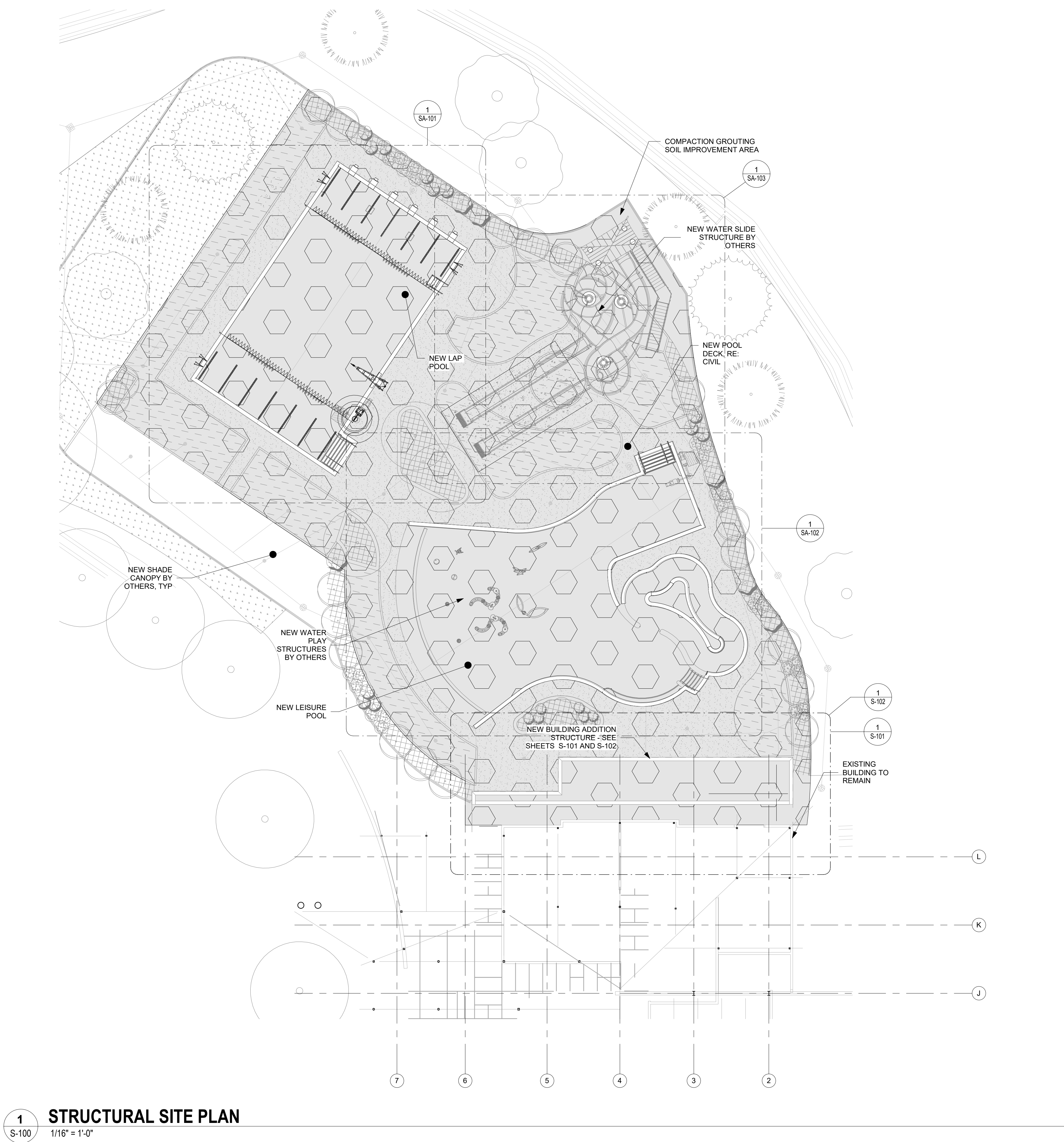
1700 Bull Pasture Rd, Eagle, CO 81631

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SCALE: 1/16" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: STRUCTURAL SITE PLAN

SHEET #:

S-100



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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

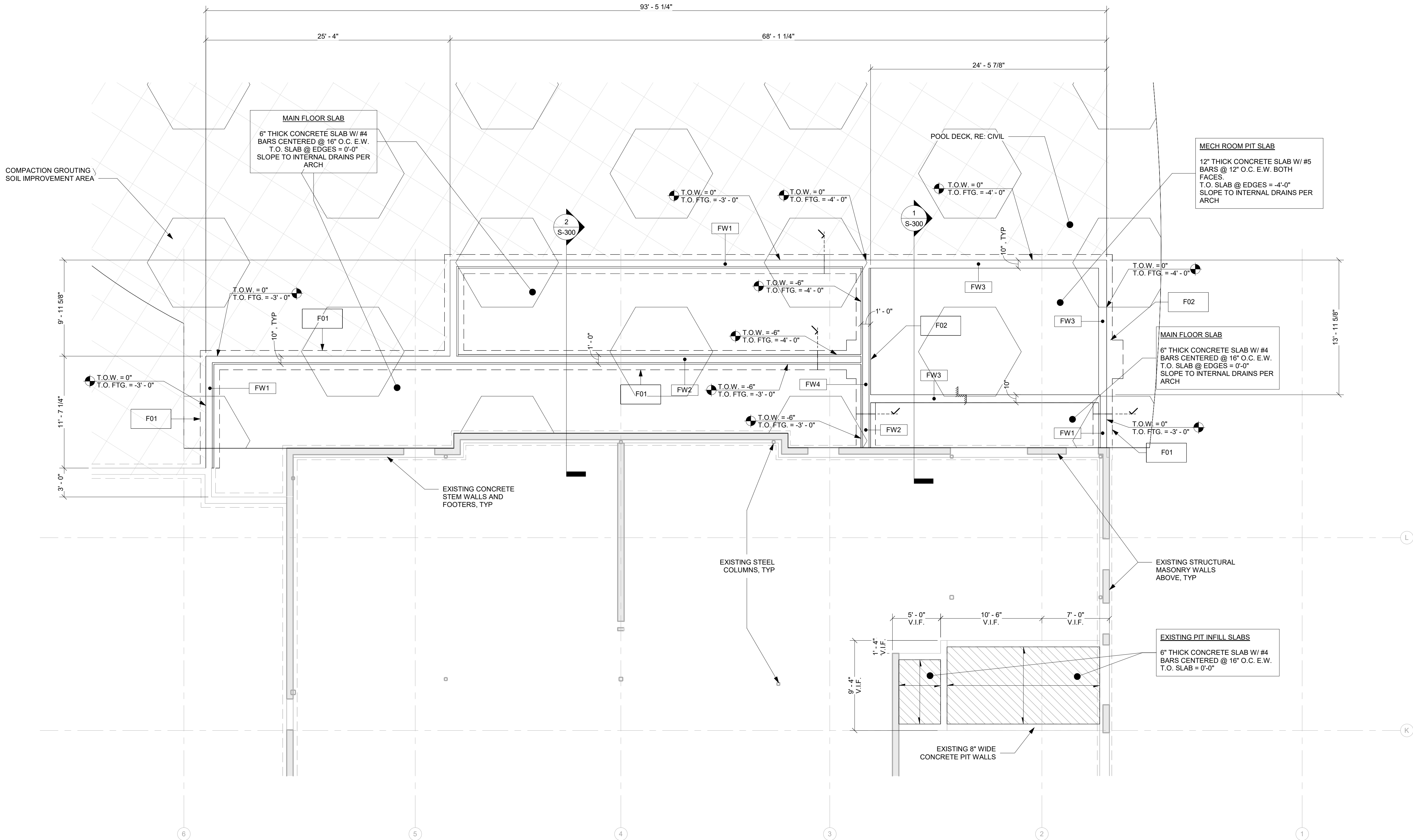
SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: FOUNDATION PLAN

SHEET #:

S-101

FOUNDATION PLAN NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.
2. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. MASONRY WALLS THAT BEAR ON FOUNDATION WALLS ARE SHOWN ON FRAMING PLANS.
4. COMPACTION GROUT BENEATH ALL NEW SLAB ON GRADE AREAS.
5. GROUT COLUMNS SHALL BE SPACED THROUGHOUT THE SLAB ON GRADE AREAS ACCORDING TO THE GEOTECHNICAL PLANS.
1. F# INDICATES FOOTING MARK #. SEE FOOTING SCHEDULE.
2. FW# INDICATES FOUNDATION WALL MARK #. SEE FOUNDATION WALL SCHEDULE.
3. INDICATES TOP OF WALL STEP
4. INDICATES TOP OF FOOTING STEP



1 FOUNDATION PLAN
3/16" = 1'-0"



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: As indicated
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: ROOF FRAMING PLAN

SHEET #:

S-102

1. ROOF DECKING TO BE 3" X 18 GAUGE TYPE N GALVANIZED METAL ROOF DECK. ALL PANEL ENDS TO BE LAPPED AT SUPPORTS, BUTTED ENDS NOT PERMITTED.

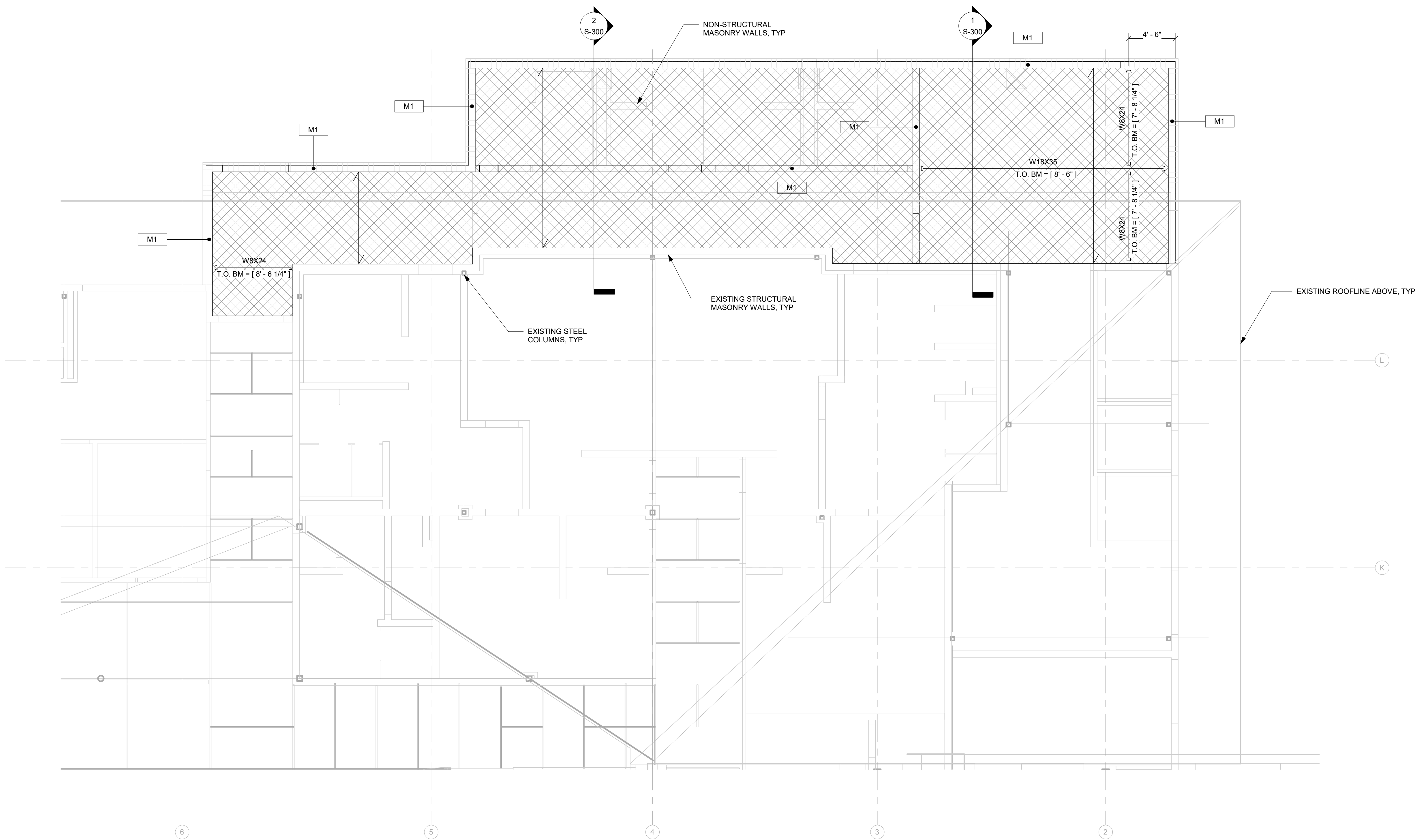
 : INDICATES TYPE 1 ROOF DIAPHRAGM. FASTEN WITH 5/8" DIAMETER SPOT WELDS IN A 36/7 PATTERN TO ALL SUPPORTS AND AT PERIMETER. FASTEN SIDELAPS WITH (7)-#12 SCREWS PER SPAN.

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

2. SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

3. INDICATES MASONRY WALL MARK #. SEE MASONRY WALL SCHEDULE.

4. INDICATES TOP OF WALL STEP



1 ROOF FRAMING PLAN



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1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

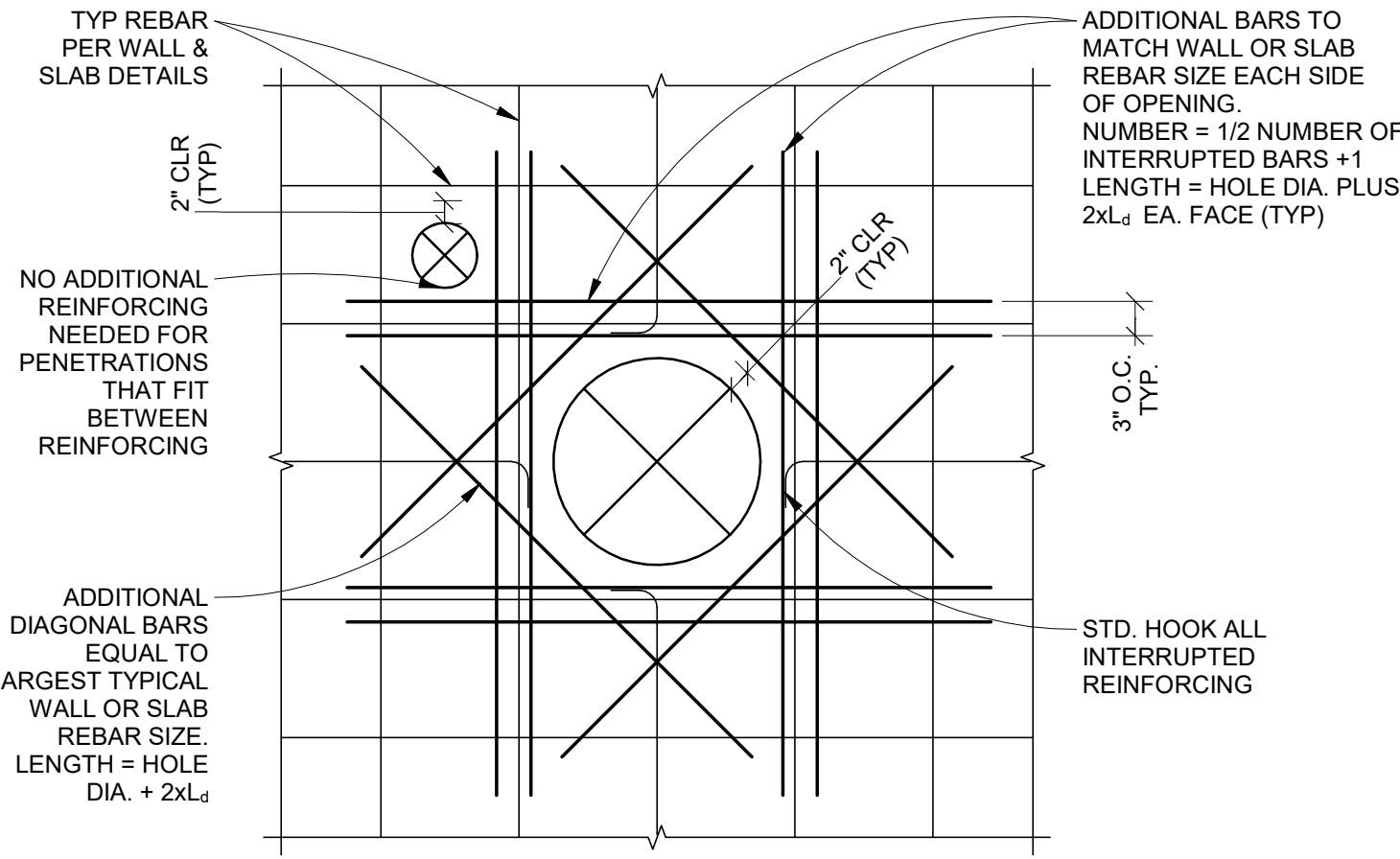
SCALE: 1/2" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: STRUCTURAL SECTIONS

SHEET #:
S-300



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1
S-500
3/4" = 1'-0"

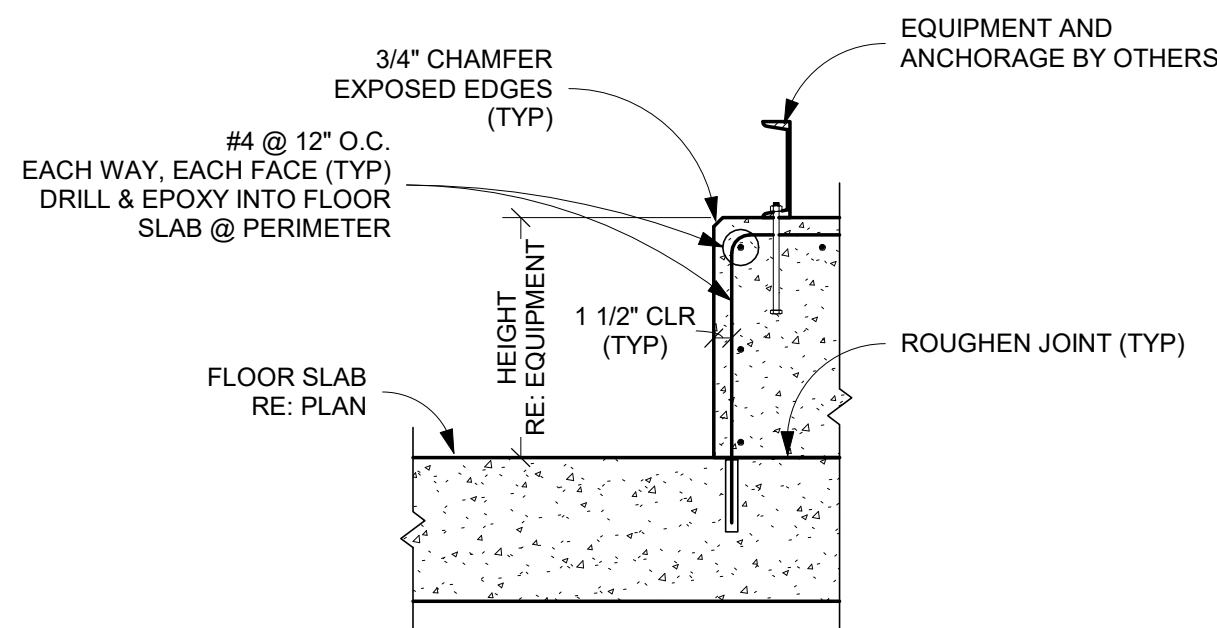
TYPICAL WALL & SLAB ROUND PENETRATION DETAIL

REINFORCING HOOKS AND SPLICE TABLE (FC = 4500 PSI, Fy=60 KSI, BAR SPACING = 6 IN. MIN.)									
BAR SIZE	DIAMETER (d) (INCHES)	DEVELOPMENT LENGTH (Ld) (INCHES)		CLASS B LAP SPLICE (INCHES)		90° STD HOOK (INCHES)	180° STD HOOK (Y1) (INCHES)	INSIDE BEND DIA (D1) (INCHES)	
		"TOP" BARS	OTHER	"TOP" BARS	OTHER	HOOK			L _{db}
REINFORCING BARS IN TENSION									
#3	0.375	18	14	24	19	6	7	4	2.25
#4	0.5	24	18	32	24	8	9	5	3
#5	0.625	30	23	39	30	10	11	5	3.75
#6	0.75	35	27	46	36	12	13	6	4.5
#7	0.875	51	40	67	52	14	16	7	5.25
#8	1	59	45	77	59	16	18	8	6
#9	1.125	66	51	86	67	19	20	11	9.5
#10	1.25	73	56	95	73	22	22	12	10.75
#11	1.375	80	62	104	81	24	25	13	12
#14	1.75	102	79	133	103	31	31	18	18.5
#18	2.25	131	101	171	132	41	40	23	24

- NOTES:
- "TOP" BARS SHALL BE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED SHALL:
A) NOT BE LESS THAN d_b; HAVE CLEAR COVER NOT LESS THAN d_b; AND STIRRUPS OR TIES THROUGHOUT L_d NOT LESS THAN THE CODE MINIMUM OR;
B) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2d_b AND CLEAR COVER NOT LESS THAN d_b.
WHERE: d_b = DIAMETER OF REINFORCING BAR AND
L_d = DEVELOPMENT LENGTH.
 - ALL LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.
 - WHEN SPLICING BAR OF DIFFERENT SIZE, THE LENGTH OF LAP SHALL BE GOVERNED BY THE LARGER DIAMETER BAR.
 - SPLICES ARE TO BE MADE SO THAT THE GIVEN DISTANCES TO FACE OF CONCRETE WILL BE MAINTAINED.
 - SPLICES SHALL BE STAGGERED TO GIVE 12 INCHES CLEAR BETWEEN ENDS OF ADJACENT SPLICES. IF BARS ARE SPACED CLOSER THAN 6 INCHES OR 6 BAR DIAMETERS.

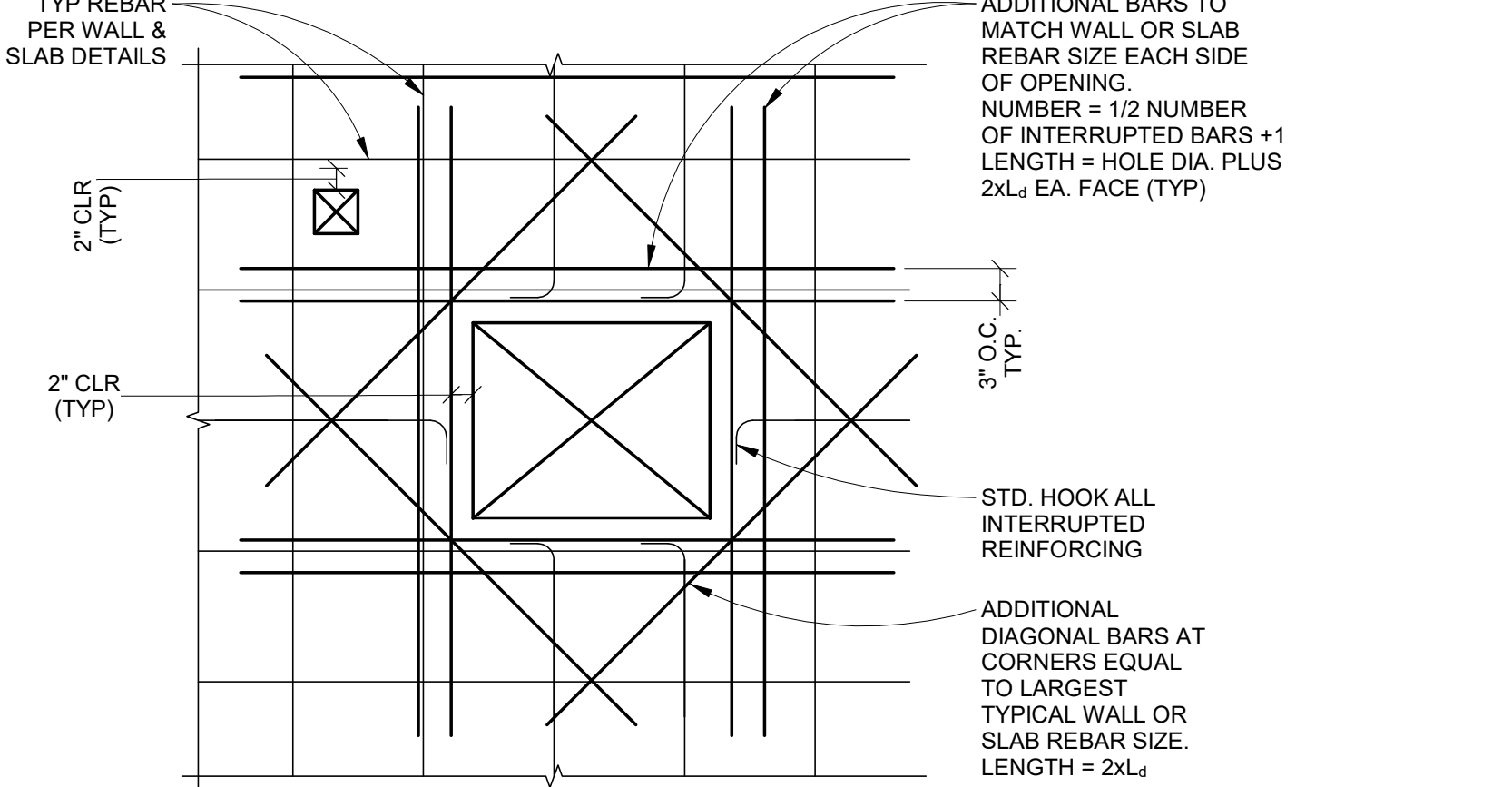
4
S-500
3/4" = 1'-0"

STANDARD REINFORCING HOOKS AND SPLICE SCHEDULES



9
S-500
3/4" = 1'-0"

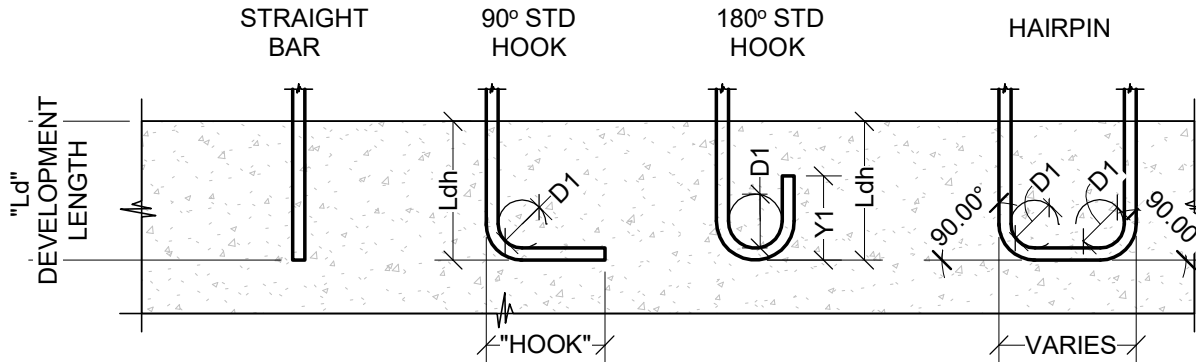
TYPICAL EQUIPMENT PADS



2
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3/4" = 1'-0"

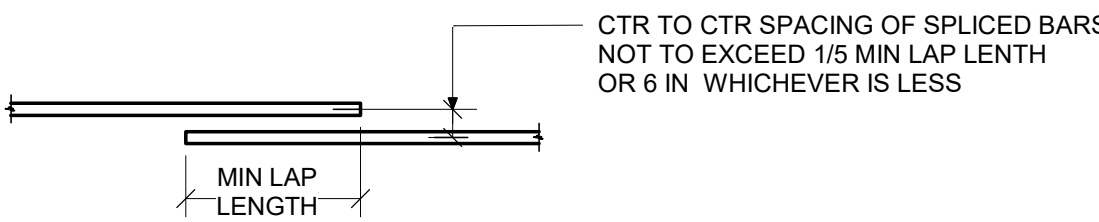
TYPICAL WALL & SLAB RECTANGULAR PENETRATION DETAIL

STIRRUP AND TIE HOOK SCHEDULE					
BAR SIZE	DIAMETER (d _s) (INCHES)	90° HOOK (INCHES)	135° HOOK (INCHES)	180° HOOK (Y2) (INCHES)	INSIDE HOOK DIA (D2) (INCHES)
#3	0.375	5	5	4	1.5
#4	0.5	5	5	4	2
#5	0.625	6	6	5	2.5
#6	0.75	12	8	6	4.5
#7	0.875	14	9	7	5.25
#8	1	16	10	8	6



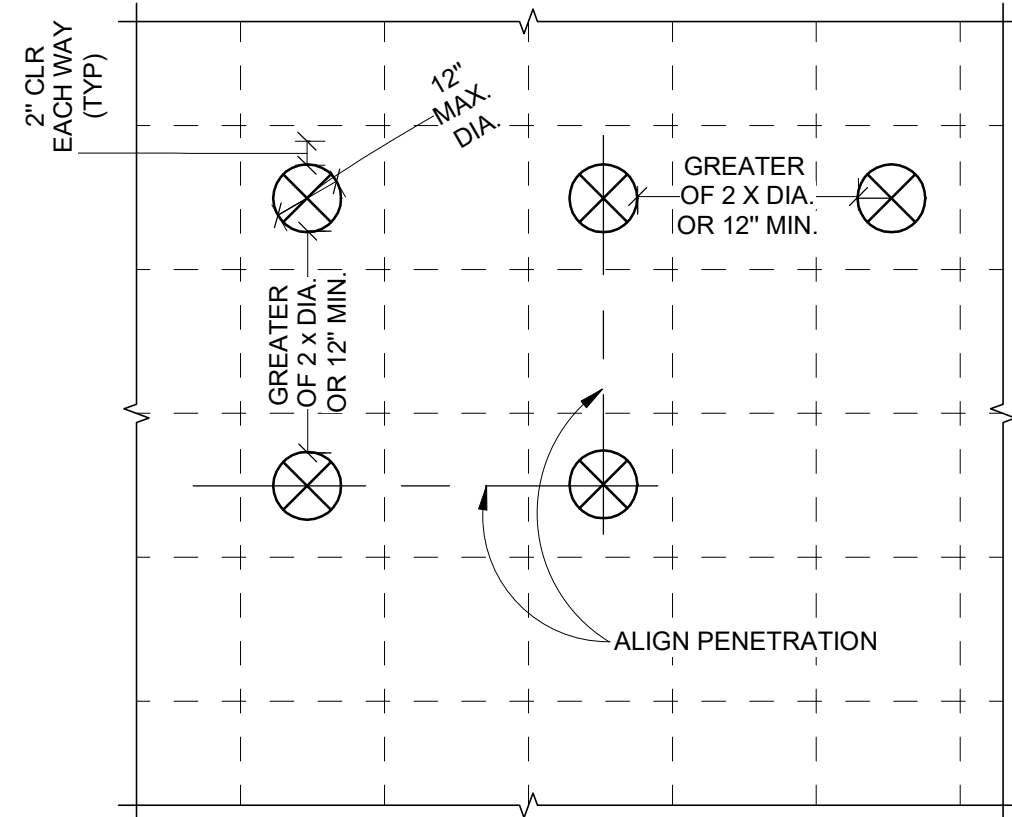
5
S-500
3/4" = 1'-0"

PRIMARY REINFORCING HOOKS AND EMBEDMENT



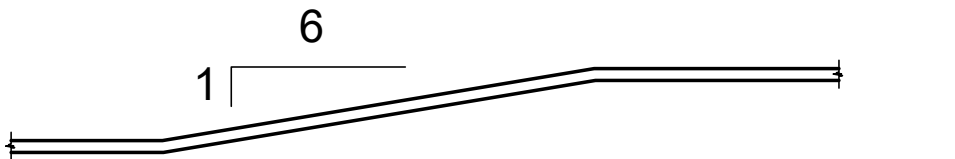
7
S-500
3/4" = 1'-0"

REINFORCING LAP SPLICE



3
S-500
3/4" = 1'-0"

TYPICAL SMALL PENETRATIONS



6
S-500
3/4" = 1'-0"

MAX REINFORCING OFFSET BEND



8
S-500
3/4" = 1'-0"

TIE OR STIRRUP BENDS AND ENDS

FOUNDATION WALL SCHEDULE			
WALL TAG	CONCRETE WALL WIDTH	MINIMUM VERTICAL REINFORCING	MINIMUM HORIZONTAL REINFORCING
FW1	10"	#5 BARS CENTERED @ 12" O.C.	#4 BARS CENTERED @ 12" O.C.
FW2	12"	#5 BARS CENTERED @ 12" O.C.	#4 BARS CENTERED @ 12" O.C.
FW3	10"	#5 BARS EA FACE @ 12" O.C.	#4 BARS EA FACE @ 12" O.C.
FW4	12"	#5 BARS EA FACE @ 12" O.C.	#4 BARS EA FACE @ 12" O.C.

FOOTING SCHEDULE			
WALL TAG	FOOTING TYPE	DIMENSIONS	MINIMUM REINFORCING
F01	CONTINUOUS	12" HEIGHT X 2'-0" WIDTH	(2) #5 BARS CONTINUOUS & #5 BARS TRANSVERSE @ 12" O.C.
F02	ISOLATED	12" HEIGHT X 4'-0" WIDTH X 4'-0" LENGTH	(4) #5 BARS EACH WAY

11
S-500
3/4" = 1'-0"

FOOTING SCHEDULE



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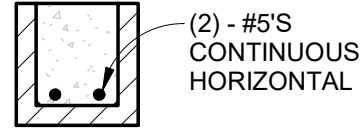
NO. DATE: TITLE/PURPOSE:
1 3/22/2024 SITE PLAN 02

SCALE: 3/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: TYPICAL CONCRETE DETAILS

SHEET #:

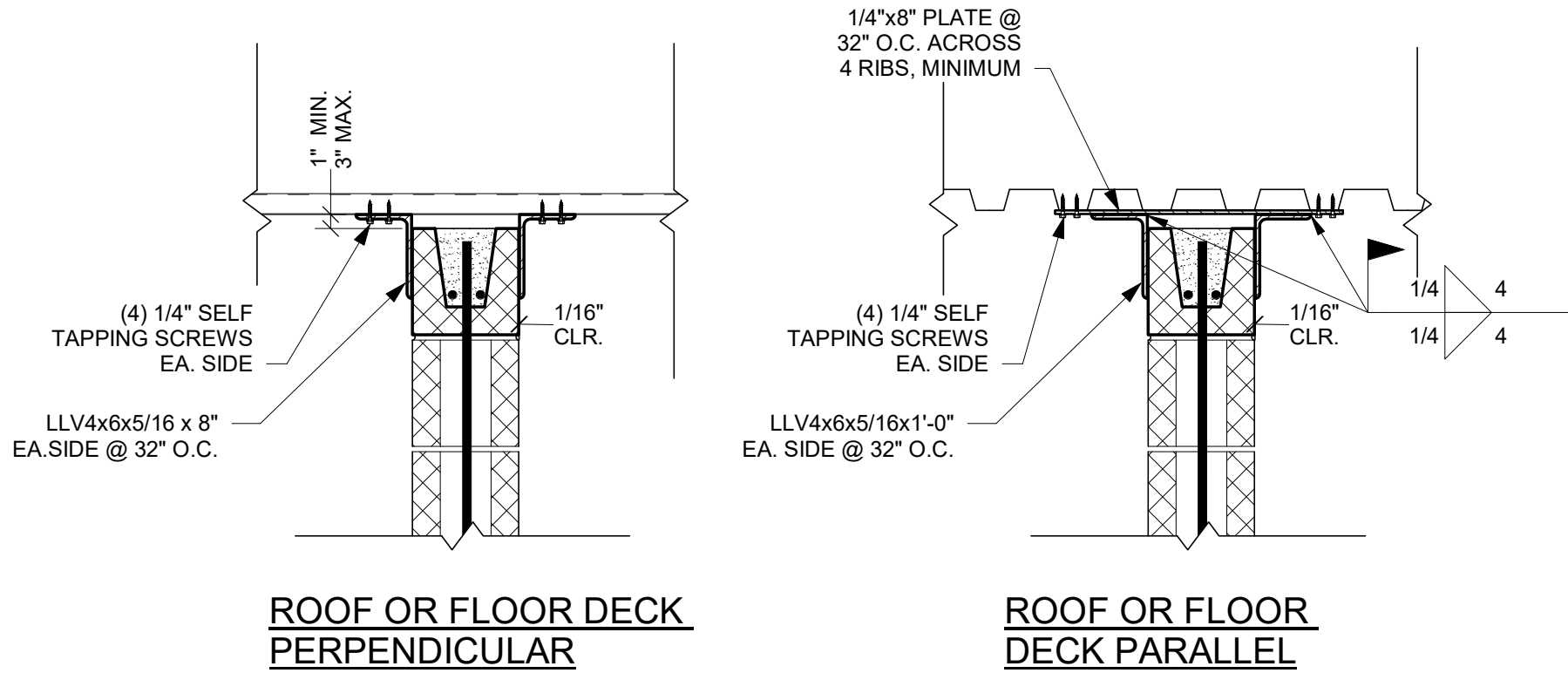
S-500

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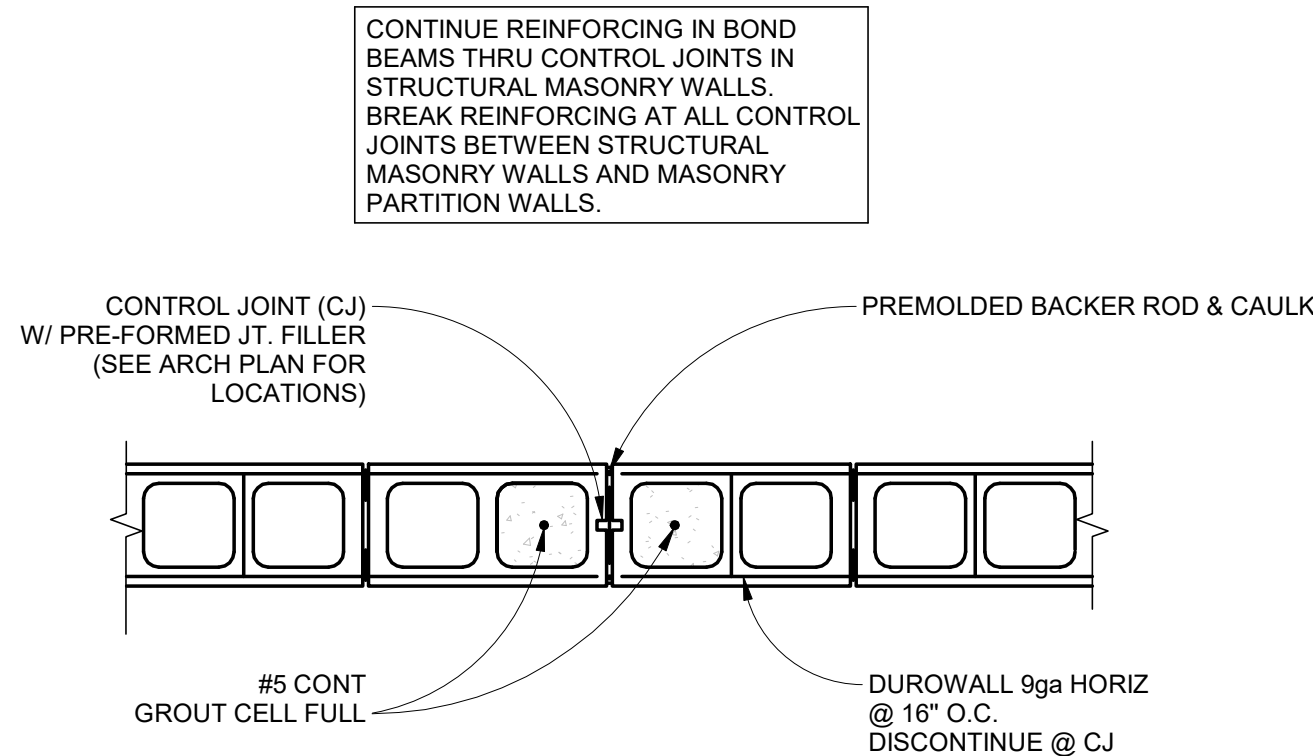
1
S-501
1" = 1'-0"

TYPICAL CMU BOND BEAM



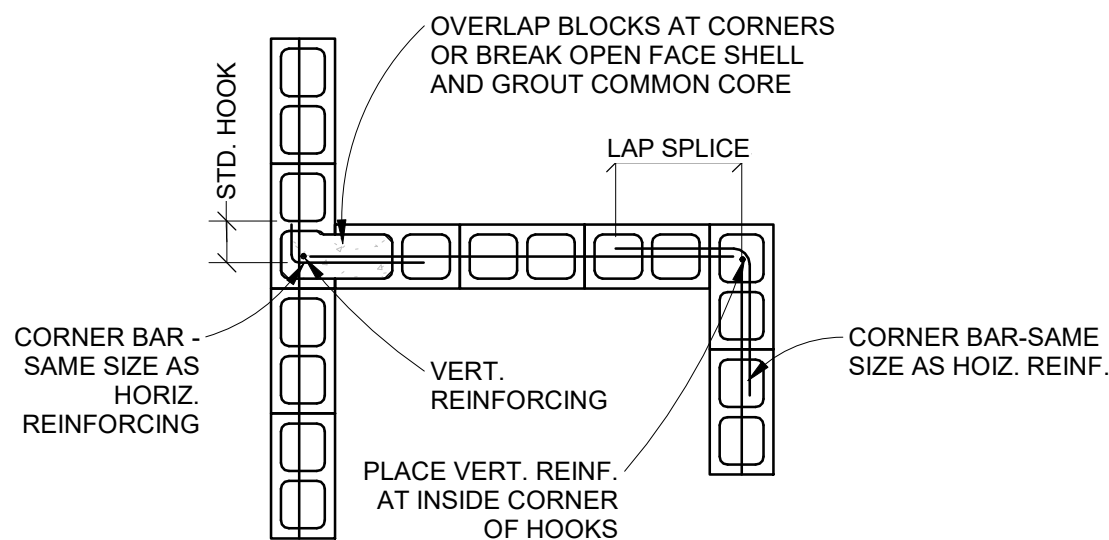
2
S-501
1" = 1'-0"

TYPICAL CMU BRACING AT TOP OF PARTITION WALLS



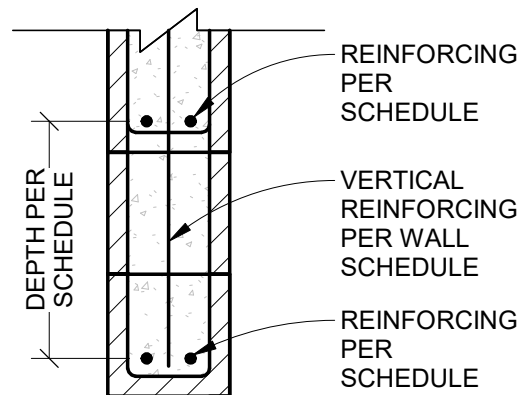
3
S-501
1" = 1'-0"

TYPICAL CMU CONTROL JOINT



4
S-501
1/2" = 1'-0"

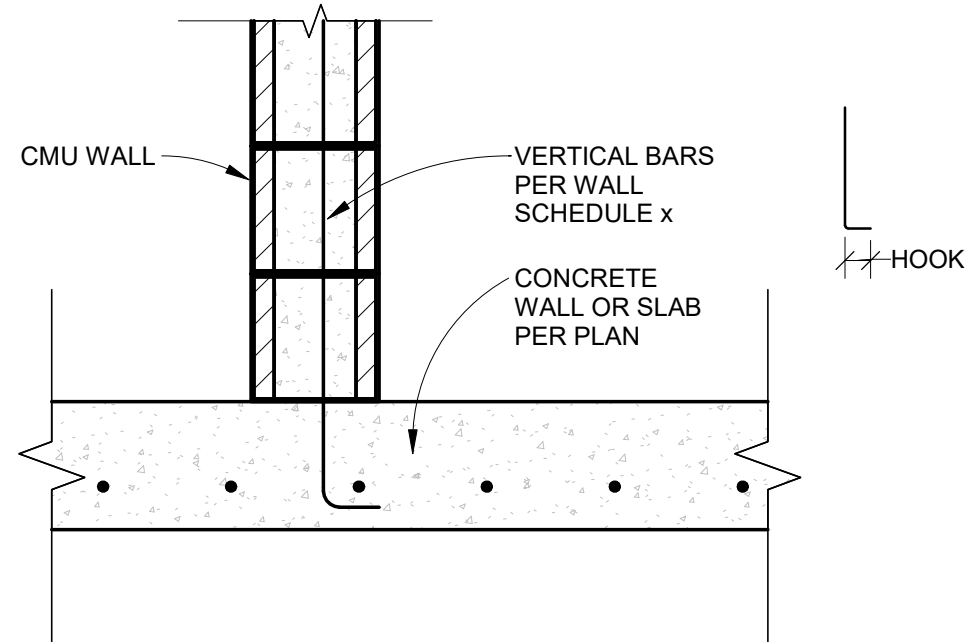
TYPICAL CMU WALL CORNER REINFORCING



5
S-501
1" = 1'-0"

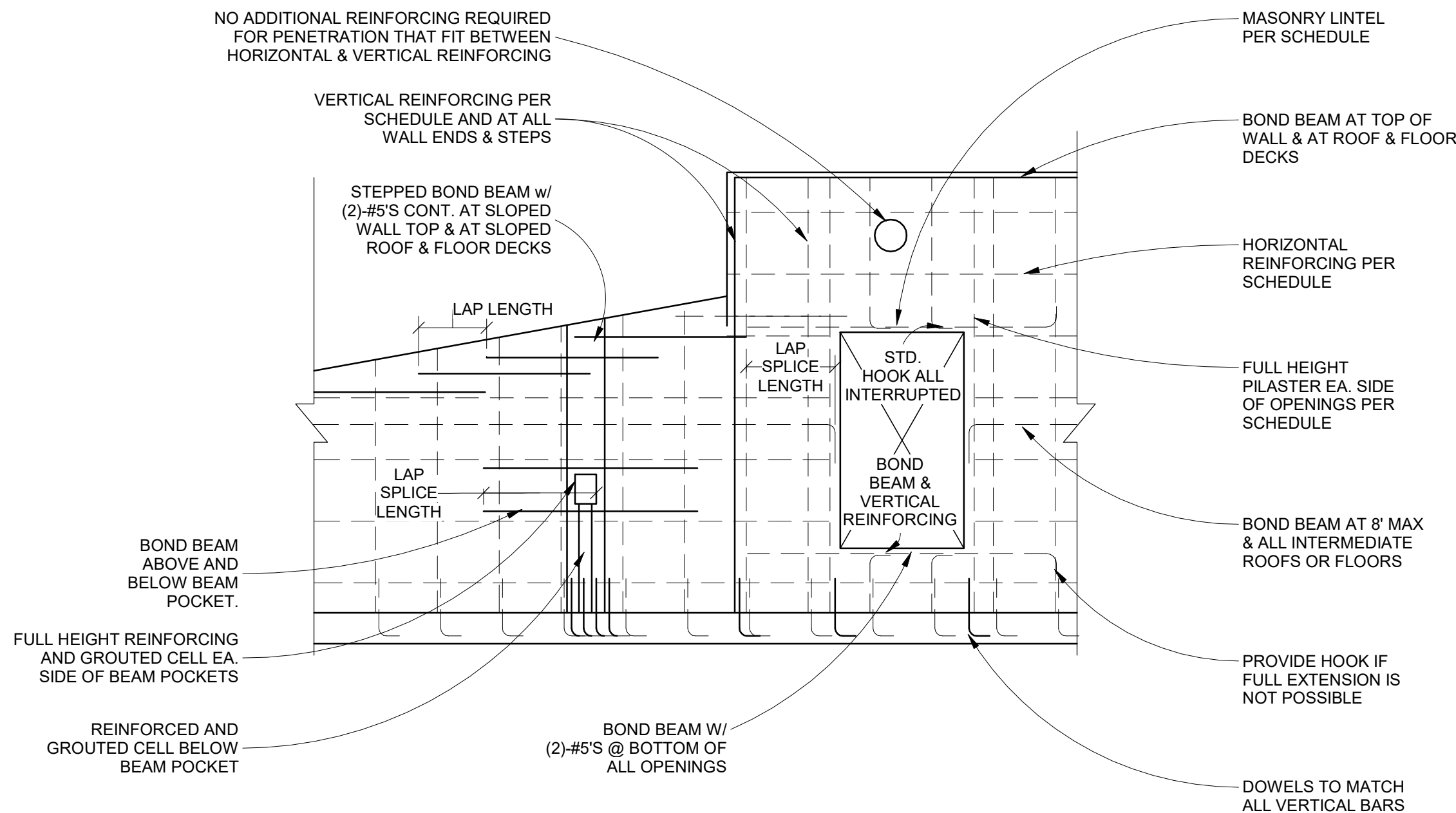
TYPICAL MASONRY LINTEL

MASONRY LINTEL SCHEDULE			
OPENING WIDTH	LINTEL DEPTH	REINFORCEMENT	PIER
0 TO 4' - 0"	1' - 4"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
4' - 1" TO 8' - 0"	2' - 0"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(1) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
8' - 1" TO 12' - 0"	2' - 8"	(4)-#5'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
12' - 1" TO 16' - 0"	4' - 0"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING
16' - 1" TO 20' - 0"	5' - 4"	(4)-#6'S, (2) EACH AT TOP & BOTTOM	(2) REINFORCED AND GROUTED CELL EACH SIDE OF OPENING



6
S-501
1" = 1'-0"

TYPICAL MASONRY WALL TO CONCRETE CONNECTION



7
S-501
1/4" = 1'-0"

MASONRY WALL SCHEDULE

REINFORCING SPLICE TABLE (F'm = 2000 PSI, Fy=60 KSI, BAR COVER = 1 1/2 IN. MIN.)		
BAR SIZE	DIAMETER (db) (INCHES)	LAP SPLICE LENGTH (INCHES)
3	0.375	16
4	0.5	29
5	0.625	45
6	0.75	85
7	0.875	116
8	1	174
9	1.125	221

MASONRY WALL SCHEDULE			
WALL TAG	MASONRY WALL SIZE	MINIMUM VERTICAL REINFORCING	HORIZONTAL REINFORCING
M1	8" CMU	#5's @ 32" O.C.	9 GAUGE LADDER TYPE JOINT REINFORCEMENT @ 16" O.C.



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NO. DATE: TITLE/PURPOSE:

1 3/22/2024 SITE PLAN 02

SCALE: As indicated
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: TYPICAL CMU DETAILS

SHEET #:

S-501

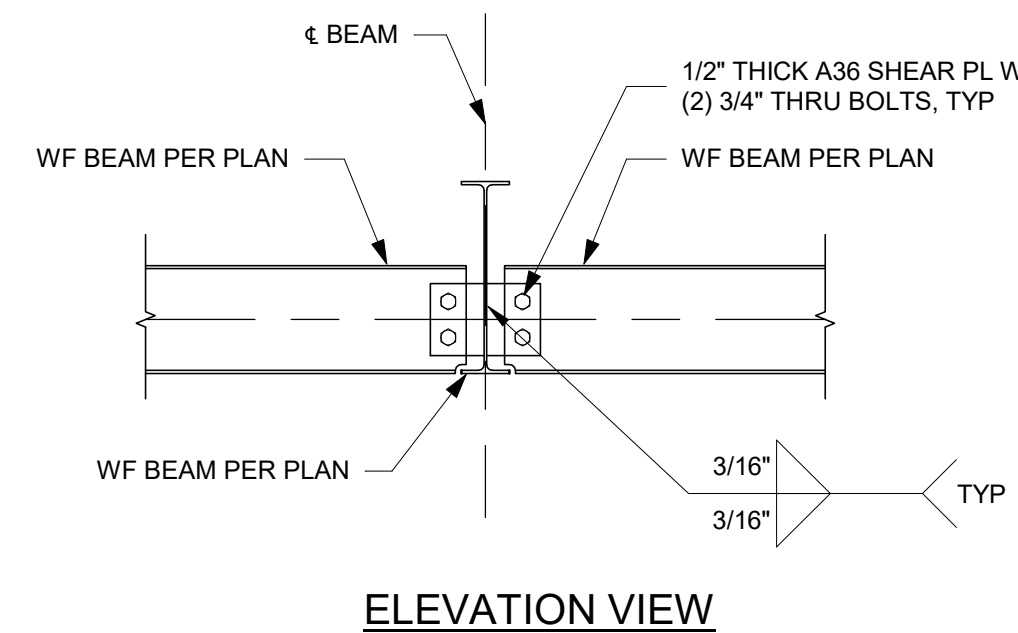


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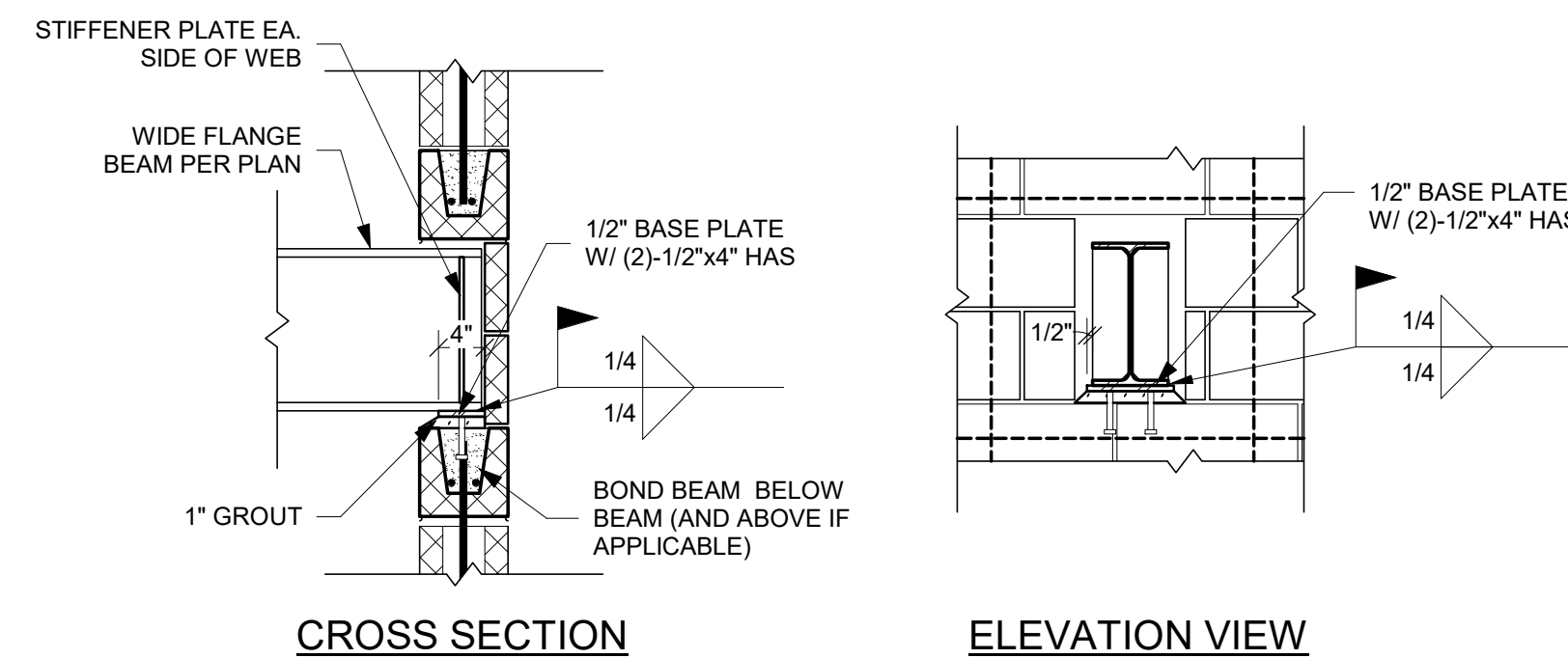
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CONSTRUCTION**

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

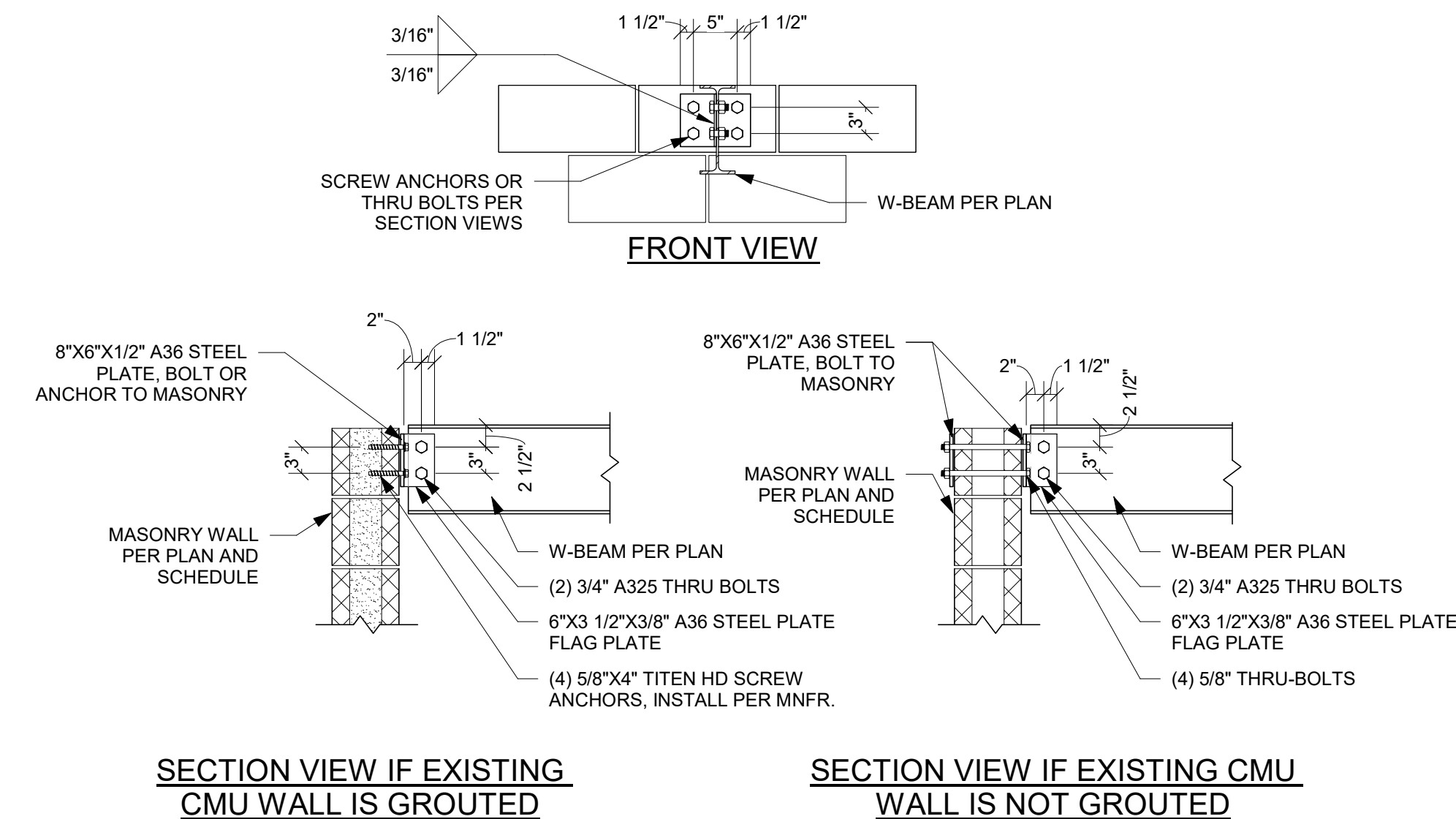
1700 Bull Pasture Rd, Eagle, CO 81631



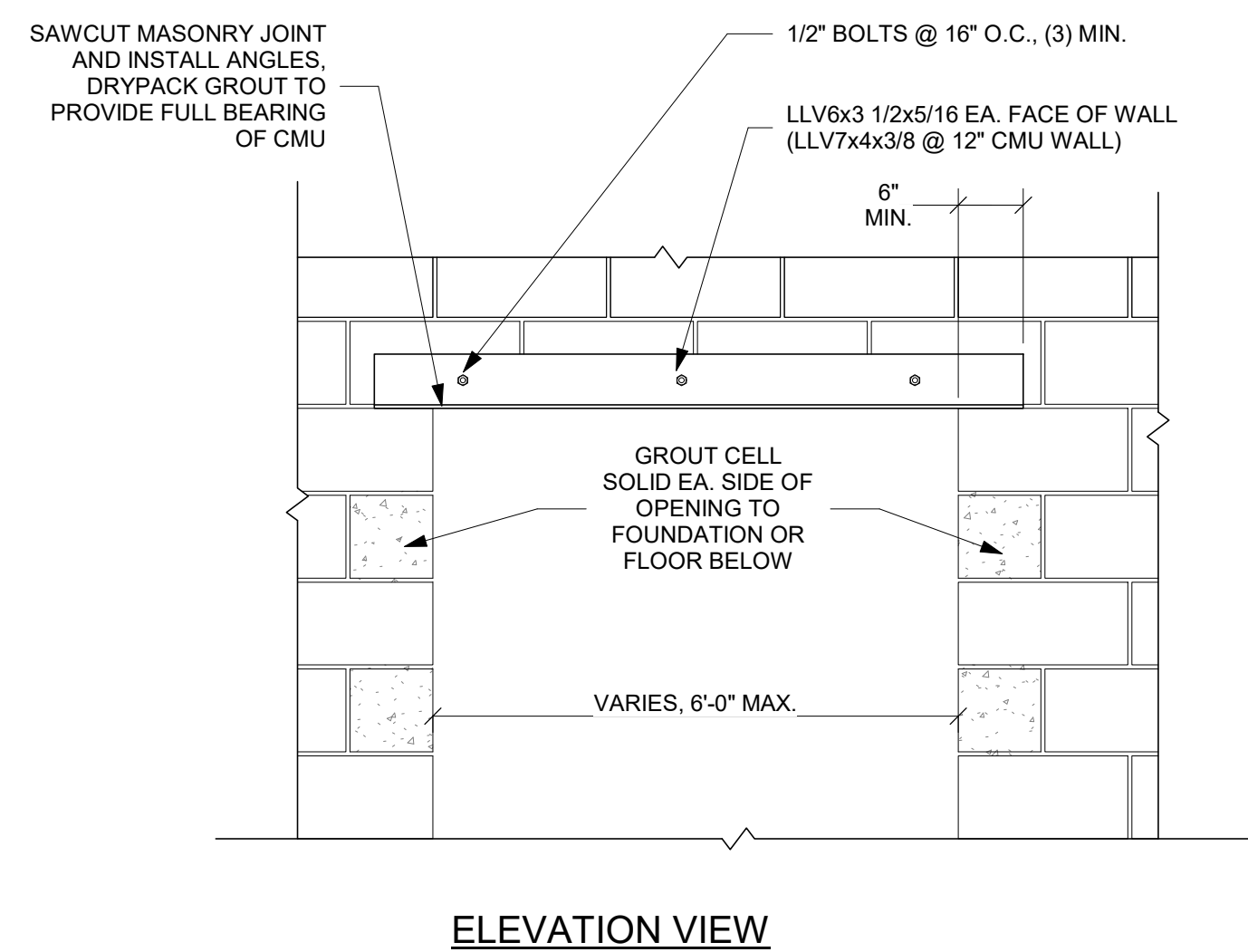
1 TYPICAL STEEL BEAM TO BEAM CONNECTION



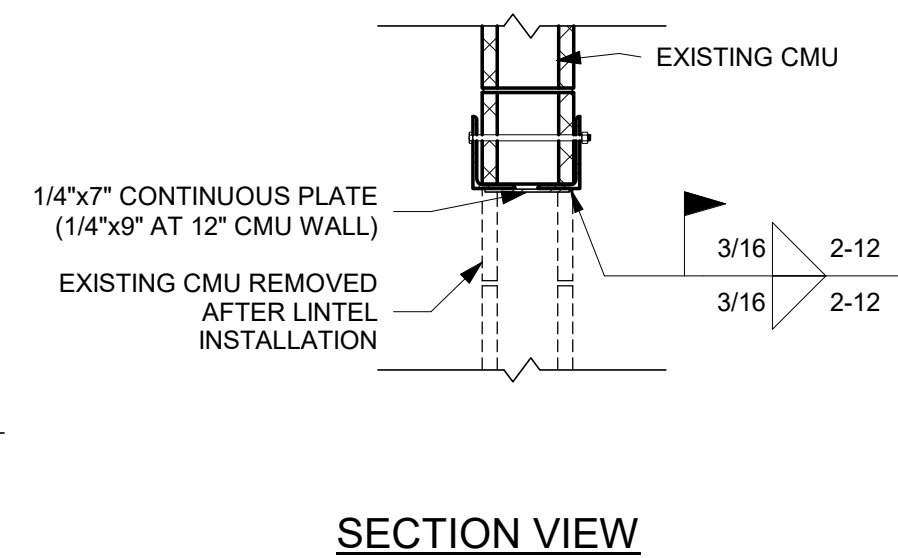
2 TYPICAL STEEL BEAM POCKET AT WALL



3 TYPICAL STEEL BEAM CONNECTION AT EXISTING WALL



4 TYPICAL NEW OPENING IN EXISTING CMU WALL



ELEVATION VIEW

EXISTING GROUTED LINTEL, VERIFY

EXISTING REINFORCED AND GROUTED CELLS EA. SIDE OF OPENING TO REMAIN

CUT EXISTING FACE SHELLS TO MATCH EXISTING BOND PATTERN

NEW CMU TO MATCH EXISTING

DRILL & EPOXY NEW REINFORCING INTO EXISTING, TYP.

VERTICAL REINFORCING PER TYPICAL CMU WALL DETAILS AND SCHEDULES

HORIZONTAL JOINT REINFORCING PER TYPICAL CMU WALL DETAILS

BOND BEAMS TO MATCH EXISTING

EXISTING BOND BEAMS, VERIFY

5 TYPICAL INFILL OF EXISTING CMU WALL OPENING

[illegible]

SCALE: 3/4" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: TYPICAL STEEL DETAILS

SHEET #:

S-502



**NOT FOR
CONSTRUCTION**

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 3/16" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: LAP POOL PLAN

SHEET #:

SA-101

1 LAP POOL PLAN



Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: 3/16" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: LEISURE POOL PLAN

SA-102



**NOT FOR
CONSTRUCTION**

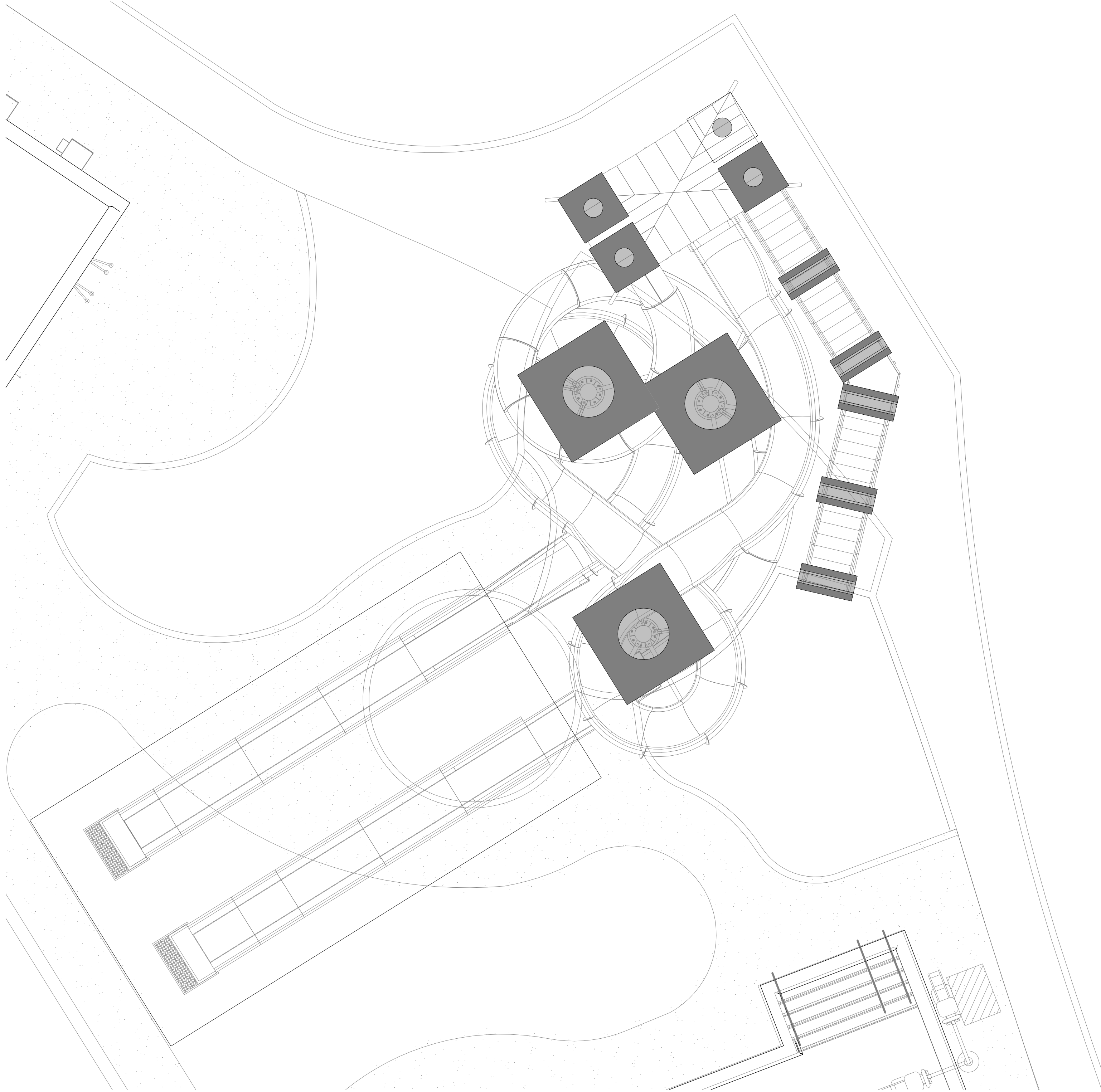
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 3/16" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 2023-493.001
TITLE: SLIDE FOUNDATION PLAN

SHEET #

SA-103



1 SLIDE FOUNDATION PLAN

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: AQUATIC STRUCTURAL
 SECTIONS

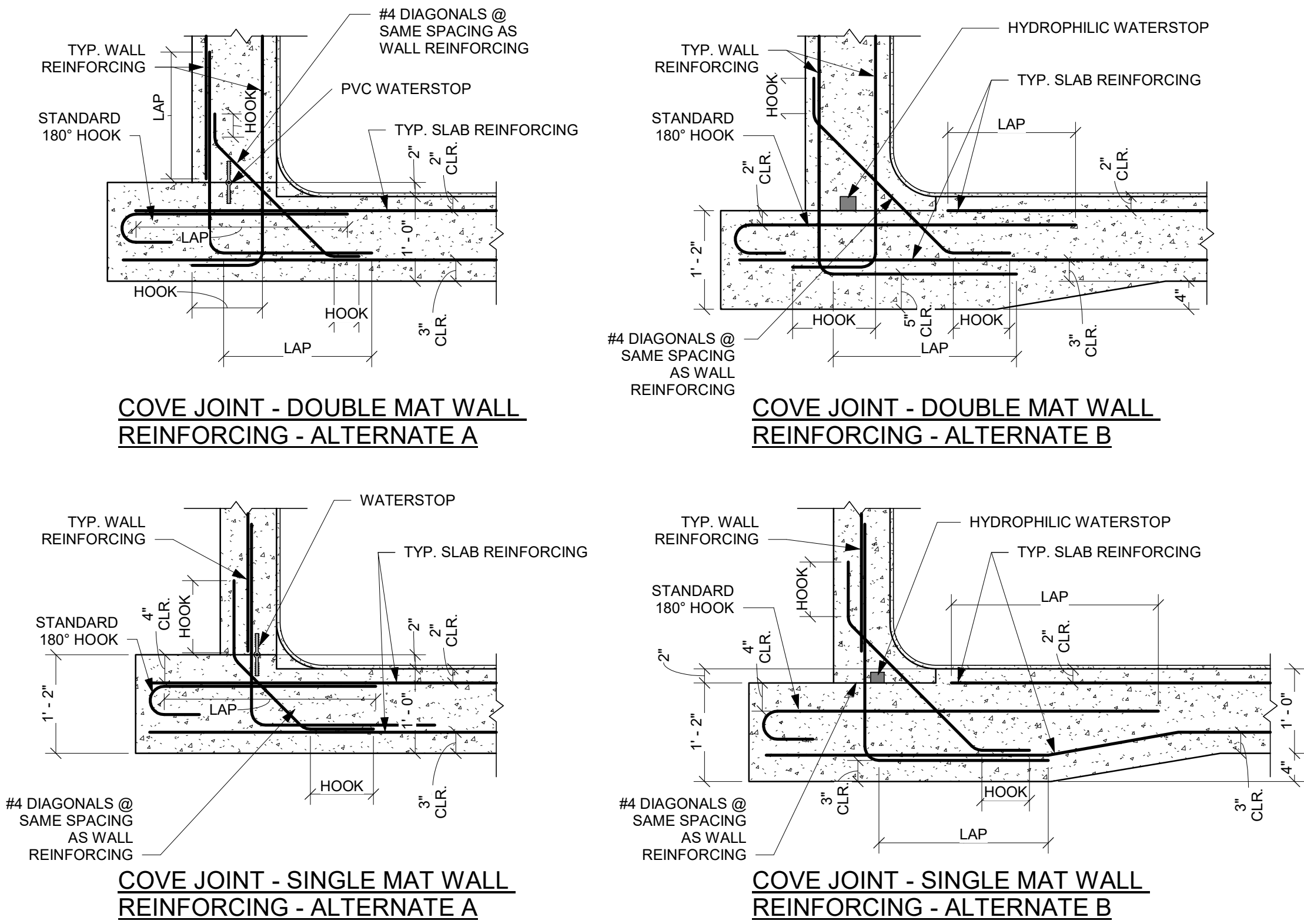
SA-300



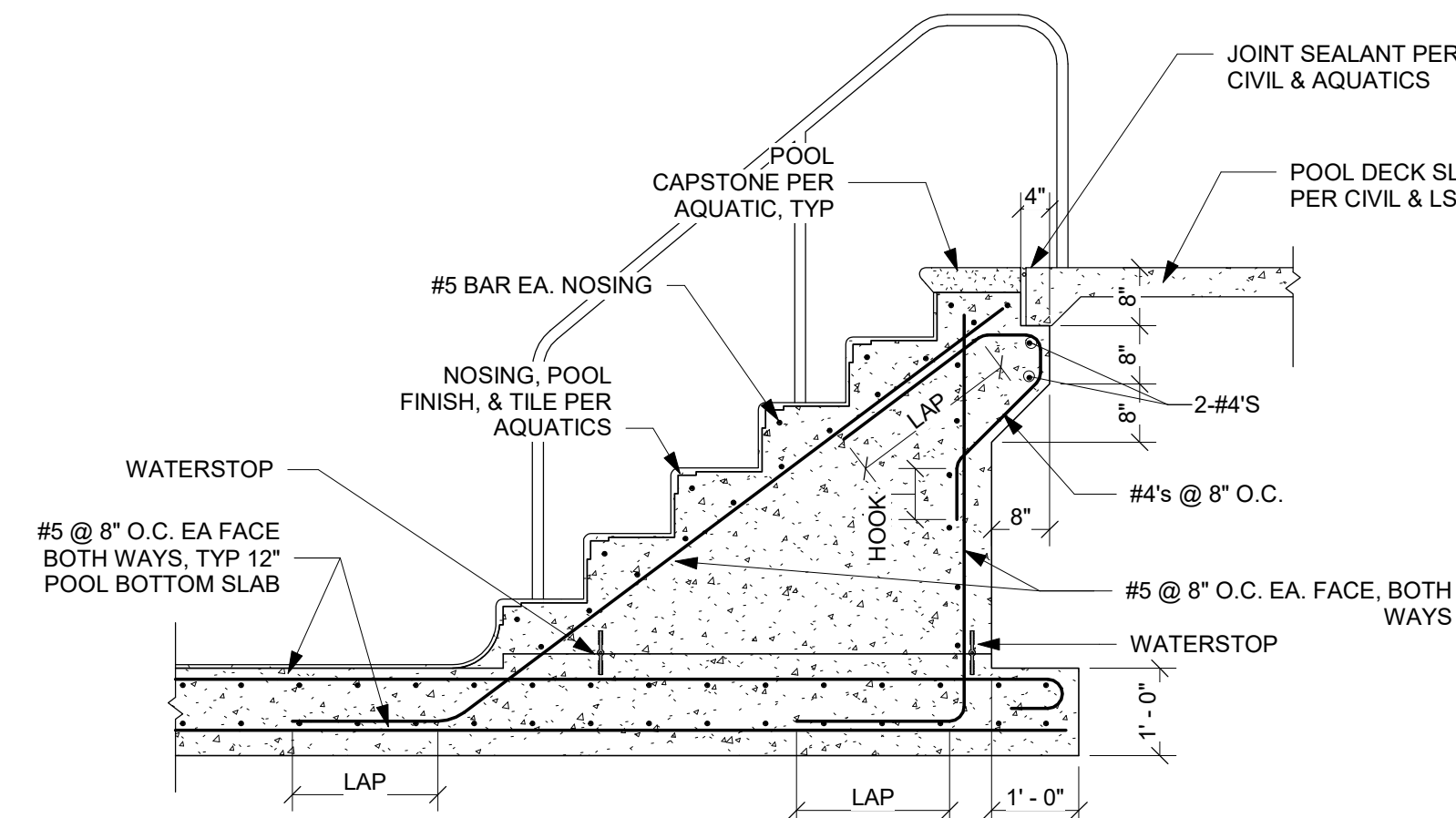
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: As indicated
 ISSUE DATE: 03/22/2024
 PROJECT #: 2023-493.001
 TITLE: AQUATIC STRUCTURAL
 DETAILS

SA-500



3 TYPICAL SLAB-WALL COVE JOINT

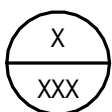


6 TYPICAL POOL STAIR DETAIL

HVAC LEGEND		
ABBV.	SYMBOL	DESCRIPTION
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
MA		MAKE-UP AIR
FCU		FAN COIL UNIT
VAV		VARIABLE AIR VOLUME TERMINAL

MECHANICAL HVAC NOTES AND SPECIFICATIONS

- DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHEN DUCT LINER IS REQUIRED, INCREASE SHEET METAL DIMENSIONS ACCORDINGLY.
2. FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
3. UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
4. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
5. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
6. 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. DUCT GAUGES SHALL MEET OR EXCEED SMACNA STANDARDS.
7. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
8. 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.
9. EXPOSED DUCTWORK SHALL HAVE A GALVANIZED FINISH. (EXPOSED DUCTWORK SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER. PAINTING OF DUCTWORK IN FIELD TO BE BY THE GC.)
10. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
11. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
12. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
13. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
14. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
15. 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 ORB.
16. SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL WITHOUT MANUAL VOLUME DAMPERS.
17. RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
18. 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.
19. COORDINATE LOUVER, WALL CAP, AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSEING WHERE APPLICABLE.
20. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
21. 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.
22. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
23. DIVISION 16 SHALL PROVIDE A 120 VOLT, 20 AMP CIRCUIT FOR THE DDC SYSTEM LOCATED IN THE ROOM ADJACENT TO THE DDC ROOM. DIVISION 16 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. DIVISION 16 SHALL PROVIDE ONE DDC CONNECTION LOCATED IN TH ROOM HOUSING THE DDC COMPUTER. COORDINATE EXACT ROOM WITH THE OWNER.
24. MOTOR STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AS REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT.

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
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
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		PIPE TAG - X=PIPE SIZE, Y=GPM
		X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

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 DEMOLISHING THESE WALLS AND/OR CEILINGS SO THE 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.
14. 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.

MECHANICAL HVAC INSULATION NOTES AND SPECIFICATIONS

1. ALL RECTANGULAR SUPPLY, RETURN, AND TRANSFER DUCTWORK SHALL BE LINED WITH 1" DUCT LINER, UNLESS NOTED OTHERWISE.
2. ALL CONCEALED RETURN DUCTWORK SHALL BE WRAPPED WITH 1-3/8" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6.
3. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-8. NO DUCT LINER ALLOWED.
4. FLEXIBLE DUCTWORK SHALL BE WRAPPED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-6.
5. ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED. (LINED WITH 1" DUCT LINER).
6. ALL EXHAUST DUCTWORK SHALL NOT BE REQUIRED TO BE INSULATED, UNLESS NOTED OTHERWISE.
7. ALL EXTERIOR AND ROOF MOUNTED DUCTWORK EXPOSED TO OUTDOORS SHALL BE PROVIDED WITH 1" DUCT LINER AND 2" DUCT WRAP WITH A WATERTIGHT ALUMINUM ALL WEATHER JACKETING. MINIMUM TOTAL ASSEMBLY R-12.
8. RECTANGULAR MAKE-UP AIR SUPPLY DUCTWORK SHALL BE WRAPPED WITH 1-1/2" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6. NO DUCT LINER ALLOWED.
9. REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH MINIMUM 1/2" THICK CLOSED CELL INSULATION, OR AS RECOMMENDED BY EQUIPMENT MANUFACTURER. NOTE THAT BOTH REFRIGERANT LIQUID AND SUCTION LINES SHALL BE INSULATED FOR VRF AND DUCTLESS SPLIT SYSTEMS.
10. INSULATE HEATING WATER PIPING 1-1/2" AND SMALLER WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. INSULATE HEATING WATER PIPING 2" AND LARGER WITH 2" PIPE INSULATION WITH ALL SERVICE JACKET.
11. INSULATE CHILLED WATER PIPING WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.

ABBV.	SYMBOL	DESCRIPTION
MCD		MOTORIZED CONTROL DAMPER
		BACKDRAFT DAMPER
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
(E)FD		EXISTING FIRE DAMPER
(E)FSD		EXISTING COMBINATION MOTORIZED FIRE/SMOKE DAMPER
		WALL SWITCH
		WALL SWITCH WITH PILOT LIGHT
		THERMOSTAT / HUMIDISTAT
		TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
		COMBINATION TEMPERATURE SENSORS
		EMERGENCY POWER OFF SWITCH
		OCCUPANCY SENSOR
		SMOKE DETECTOR
		PRESSURE SENSOR
		MOTOR STARTER
		VELOCITY SENSOR
		ANALOG FLOW MEASURING DEVICE
		VARIABLE FREQUENCY DRIVE
		ANALOG OUTPUT
		ANALOG INPUT
		DIGITAL OUTPUT
		DIGITAL INPUT
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
		OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING
		45° TAKEOFF
		STANDARD RADIUS ELBOW
		NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH

SHEET INDEX			
SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M-000	MECHANICAL COVER SHEET	NONE	X
MD-101	HVAC DEMO FLOOR PLAN	1/8" = 1'-0"	X
MD-201	HVAC DEMO PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-101	HVAC FLOOR PLAN	1/8" = 1'-0"	X
M-201	HVAC PIPING FLOOR PLAN	1/8" = 1'-0"	X
M-301	HVAC ENLARGED PLANS	1/4" = 1'-0"	X
M-501	HVAC DETAILS	NONE	X
M-601	HVAC SCHEDULES	NONE	X

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

3. 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 FIELD 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. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
6. WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE GENERAL AND MECHANICAL CONTRACTORS SHALL VERIFY THAT THE RETURN AIR PATH BACK TO THE UNIT IS OPEN WITH A VELOCITY THROUGH ALL OPENINGS OF 400 FPM OR LESS.
7. 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.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
9. 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.
10. 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.
11. PROVIDE PIPE MARKER IDENTIFICATION INCLUDING ARROWS TO INDICATE DIRECTION OF FLOW. LOCATE PIPE MARKER AND ARROWS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES. MECHANICAL ROOMS AND ACCESSIBLE MAINTENANCE AREAS (SHAFTS, TUNNELS, PLENUMS) MARKERS SHALL BE SNAP-ON TYPE OR PRESSURE-SENSITIVE TYPE AT INSTALLER'S OPTION. COLORS TO COMPLY WITH ANSI A31.1.
12. PROVIDE VALVE TAGS ON EVERY VALVE, COCK, AND CONTROL DEVICE IN EACH PIPING SYSTEM. LIST EACH TAGGED VALVE IN VALVE SCHEDULE FOR EACH PIPING SYSTEM. MOUNTED FRAMED VALVE SCHEDULE IN MAIN MECHANICAL ROOM. VALVE TAGS 1/12" DIAMETER OF PLASTIC LAMINATE OR BRASS WITH PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS IN 12" HIGH LETTERS.
13. BALANCE AIR (HYDRONIC, AND RECIRCULATING DOMESTIC HOT WATER) 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 INLET AND OUTLET FLOW BE RATED DESIGN FLOW PLUS 10 PERCENT. SHALL BE 5 PERCENT OF LISTED VALUES.
14. 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.
15. CONTRACTOR SHALL WARRANTY WORK, EQUIPMENT, MATERIALS, AND PROPER OPERATION FOR A PERIOD OF ONE YEAR. THE WARRANTY SHALL BE SUBJECT TO ADOPTION OF ADOPTED BY OWNER. THIS WARRANTY SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN O&M MANUALS.
16. 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 PROVIDED AND STATED IN THE O&M MANUALS. THE O&M MANUALS SHALL BE SUBMITTED TO THE BID NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.
17. 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.
18. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE UNACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE INSTALLED 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 ACCESS (VALVES AND DAMPERS) AND 24"x24" ACCESS FOR HEAD AND SHOULDER ACCESS FOR OTHER EQUIPMENT.

HVAC PIPING NOTES AND SPECIFICATIONS

1. HEATING WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. HEATING WATER PIPING 4-1 1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
2. CHILLED WATER PIPING 2" AND SMALLER SHALL BE TYPE "L" COPPER. CHILLED WATER PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 40 BLACK STEEL.
3. REFRIGERANT PIPING SHALL BE TYPE "L" OR "ACR" COPPER, UNLESS NOTED OTHERWISE.
4. ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
5. PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
6. PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
7. PIPING CONTRACTOR SHALL SUBMIT IN ADDITION TO THE COORDINATED SHOP DRAWINGS, AN INDIVIDUAL SHOP DRAWING SHOWING ALL MEANS OF HYDRONIC SYSTEM EXPANSION (HEATING AND CHILLED WATER SYSTEMS). CONTRACTOR CAN USE EXPANSION LOOPS, ANCHORS AND ROLLERS, EXPANSION COMPENSATORS OR A COMBINATION OF BOTH, HYDRONIC EXPANSION LOCATIONS, METHODS, AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
8. ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED, OR SCHEDULED. ALL RUNOUT PIPING TO HEATING DEVICES SHALL BE A MINIMUM OF 5'-0" IN LENGTH AND SHALL HAVE A MINIMUM OF (6) 90° ELBOWS. WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**



The Ballard Group, Inc.
Mechanical Consulting Engineers
 2525 S. Wadsworth Blvd, Suite 200
 Lakewood, CO 80227
 (303) 988-4514
 4730 S. College Ave, Suite 203
 Fort Collins, CO 80525
 (970) 568-8762

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: NONE
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: MECHANICAL COVER SHEET

SHEET #:

M-000



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave, Suite 203
Fort Collins, CO 80525
(970) 568-8762

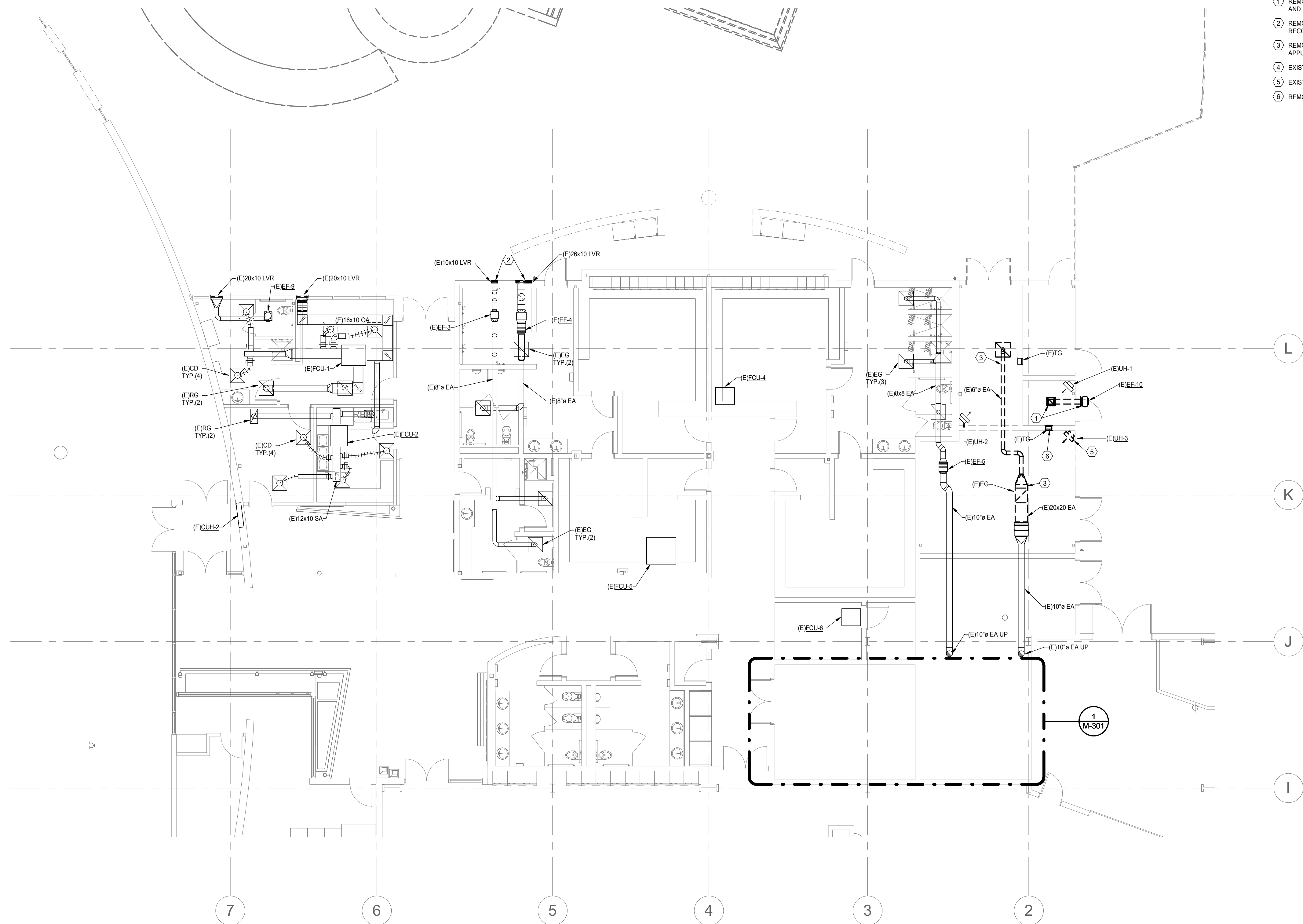
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/8" = 1'-0"
 ISSUE DATE: 03/22/2024
 PROJECT #: 23079
 TITLE: HVAC DEMO FLOOR PLAN

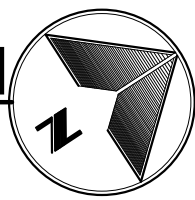
SHEET #:

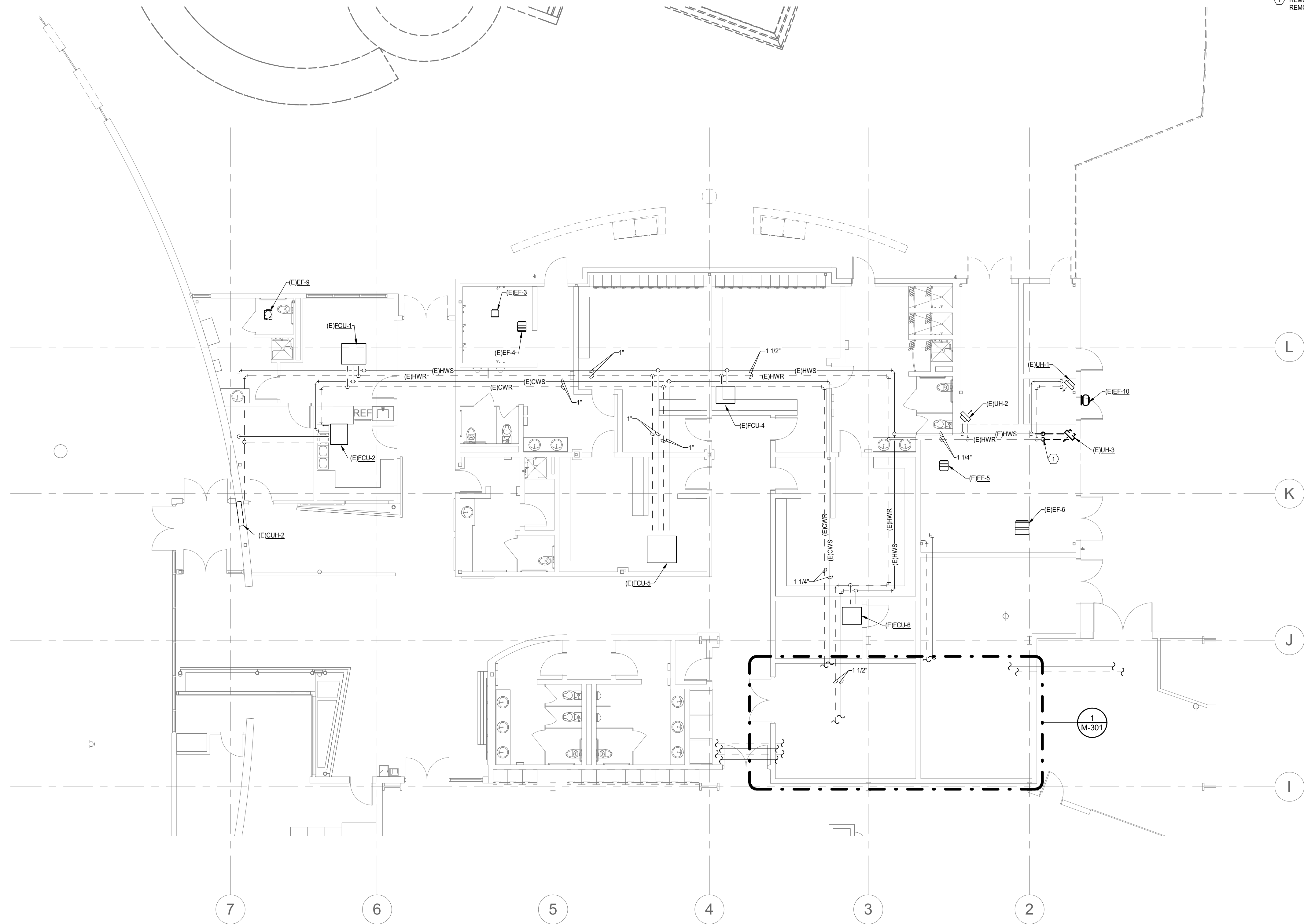
MD-101



HVAC DEMO FLOOR PLAN

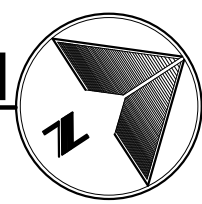
SCALE: 1/8" = 1'-0"





HVAC DEMO PIPING FLOOR PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR HVAC PIPING DEMOLITION KEYNOTES:

- 1 REMOVE EXISTING PIPING TO EXTENT INDICATED. CAP REMAINING PIPING AT CONNECTION TO REMOVED PIPING.



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DENVER, COLORADO 80205
T: 303.294.9244
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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd, Suite 200
Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave, Suite 203
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(970) 568-8762

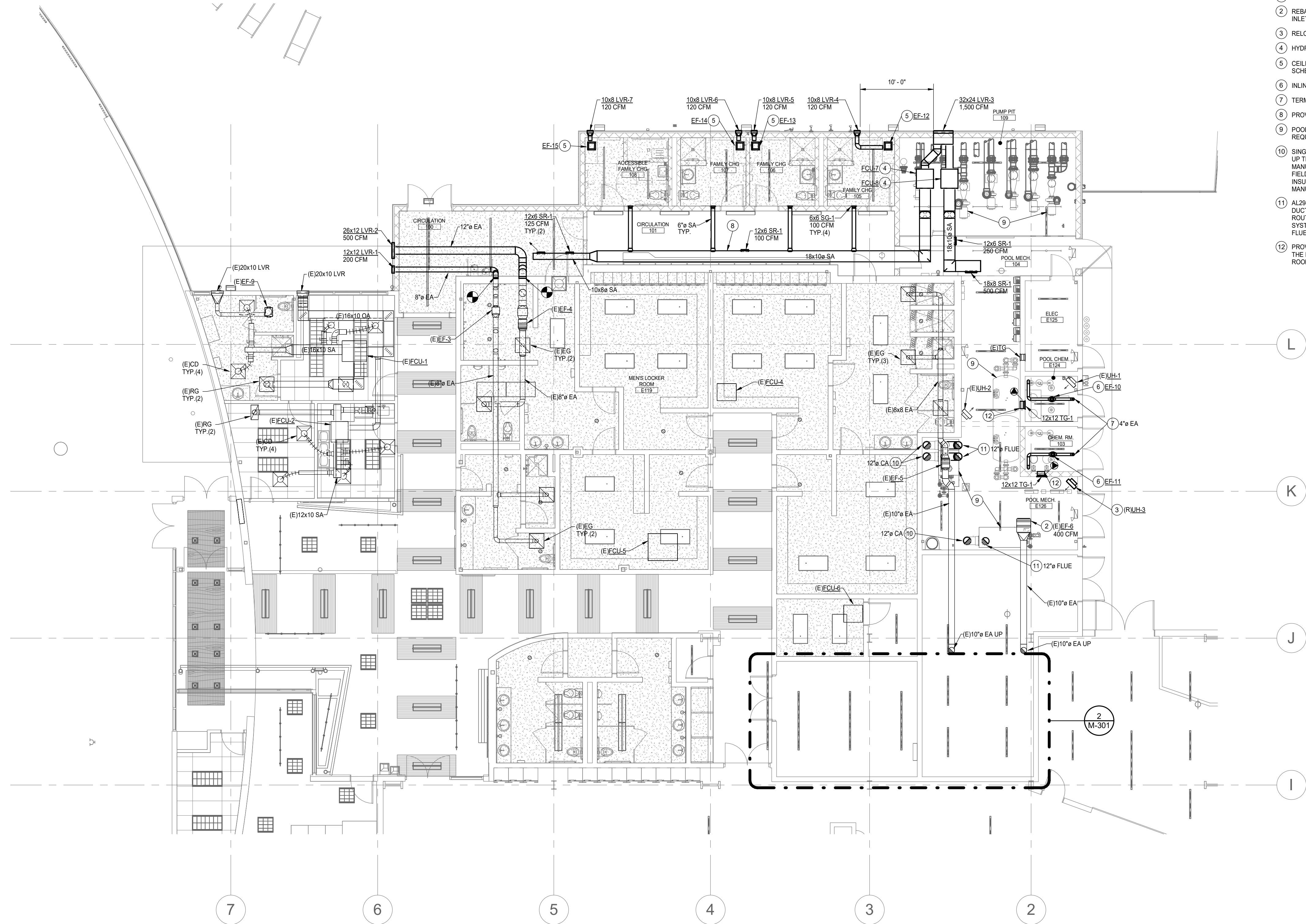
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

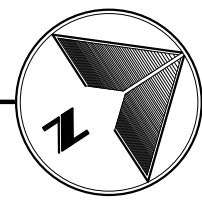
SCALE: 1/8" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: HVAC DEMO PIPING FLOOR PLAN

SHEET #:

MD-201



HVAC FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR HVAC KEYNOTES:

1. INLINE EXHAUST FAN. REFER TO DETAIL AND SCHEDULES.
2. REBALANCE THE EXISTING EXHAUST FAN TO THE AIRFLOW VALUE LISTED. PROVIDE FAN WITH AN INLET GUARD.
3. RELOCATE EXISTING UNIT HEATER AS INDICATED.
4. HYDRONIC FAN COIL UNIT. SET UNIT 10'-0" ABOVE BOTTOM OF PUMP PIT. REFER TO SCHEDULES.
5. CEILING FAN SUPPORTED FROM STRUCTURE ABOVE. SET FAN AS HIGH AS POSSIBLE. REFER TO SCHEDULE.
6. INLINE CHEMICAL EXHAUST FAN SUPPORTED FROM STRUCTURE ABOVE. REFER TO SCHEDULE.
7. TERMINATE 4" CPVC CHEMICAL ROOM EXHAUST PIPE 12" ABOVE FINISHED ROOF.
8. PROVIDE 18 GAUGE OVAL SPIRAL DUCTWORK WHERE EXPOSED IN THE CORRIDOR.
9. POOL EQUIPMENT SHOWN FOR COORDINATION ONLY. TYPICAL. REFER TO AQUATICS PLANS FOR REQUIREMENTS.
10. SINGLE WALL GALVANIZED COMBUSTION AIR DUCTWORK OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. INSULATE DUCTWORK PER OUTSIDE AIR DUCTWORK INSULATION REQUIREMENTS IN SPECIFICATIONS. TERMINATE DUCTWORK 3'-0" ABOVE ROOF WITH MANUFACTURER'S INLET CAP.
11. AL284C FLUE OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. DO NOT PROVIDE ANY DUCTWORK THAT IS ANGLED LESS THAN 45° FROM HORIZONTAL. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. TERMINATE FLUE 3'-0" ABOVE ANY FRESH AIR INTAKE WITHIN 10'-0" WITH MANUFACTURER'S VENT CAP.
12. PROVIDE A STAINLESS STEEL TYPE A FIRE DAMPER IN WALL. DAMPER SHALL BE ACCESSED FROM THE POOL EQUIPMENT ROOM SIDE OF THE WALL WITH THE TRANSFER GRILLE ON THE CHEMICAL ROOM SIDE. SET AS HIGH AS POSSIBLE AND COORDINATE WITH BLOCK COURSING.



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DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com



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Mechanical Consulting Engineers
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Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave., Suite 203
Fort Collins, CO 80525
(970) 568-8762

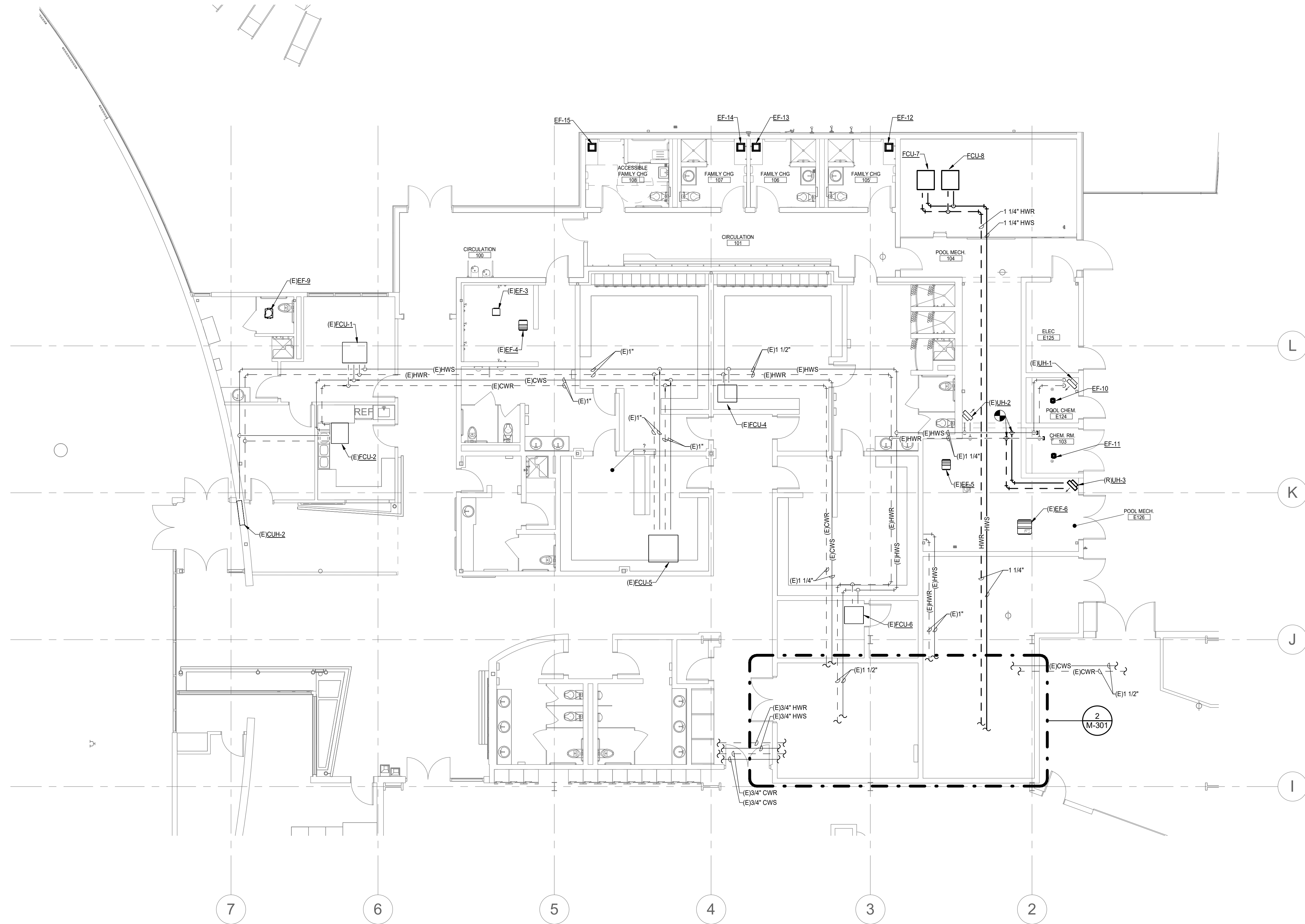
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1/8" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: HVAC FLOOR PLAN

SHEET #:

M-101



HVAC PIPING FLOOR PLAN
SCALE: 1/8" = 1'-0"



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DENVER, COLORADO 80205
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Mechanical Consulting Engineers
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Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave, Suite 203
Fort Collins, CO 80525
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Mountain Recreation Eagle Pool

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NO.	DATE	TITLE/PURPOSE
1	3/22/2024	SITE PLAN 02

SCALE: 1/8" = 1'-0"
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SHEET #:

M-201



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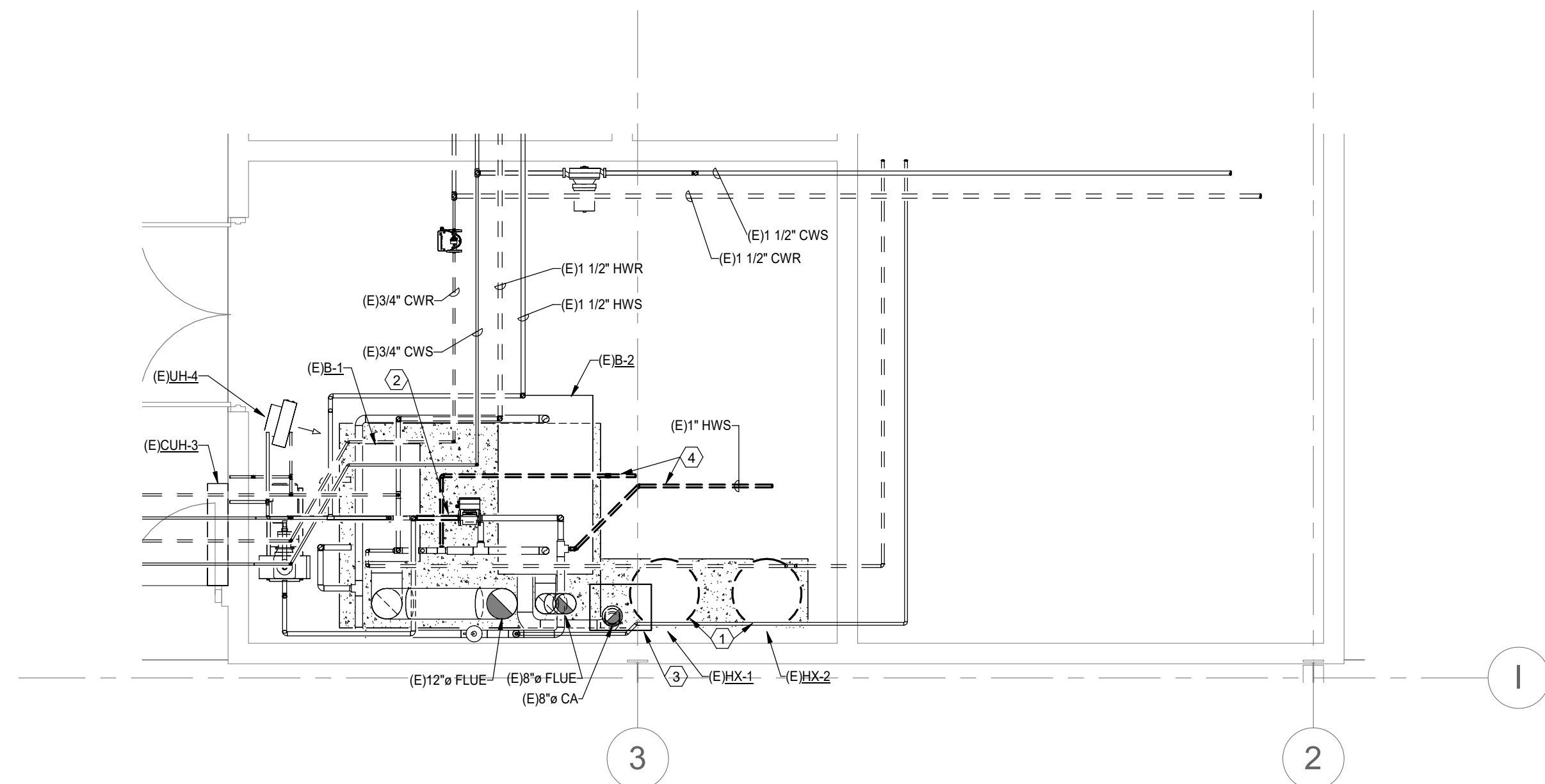
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[illegible]

SCALE: 1/4" = 1'-0"
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: HVAC ENLARGED PLANS

SHEET #:

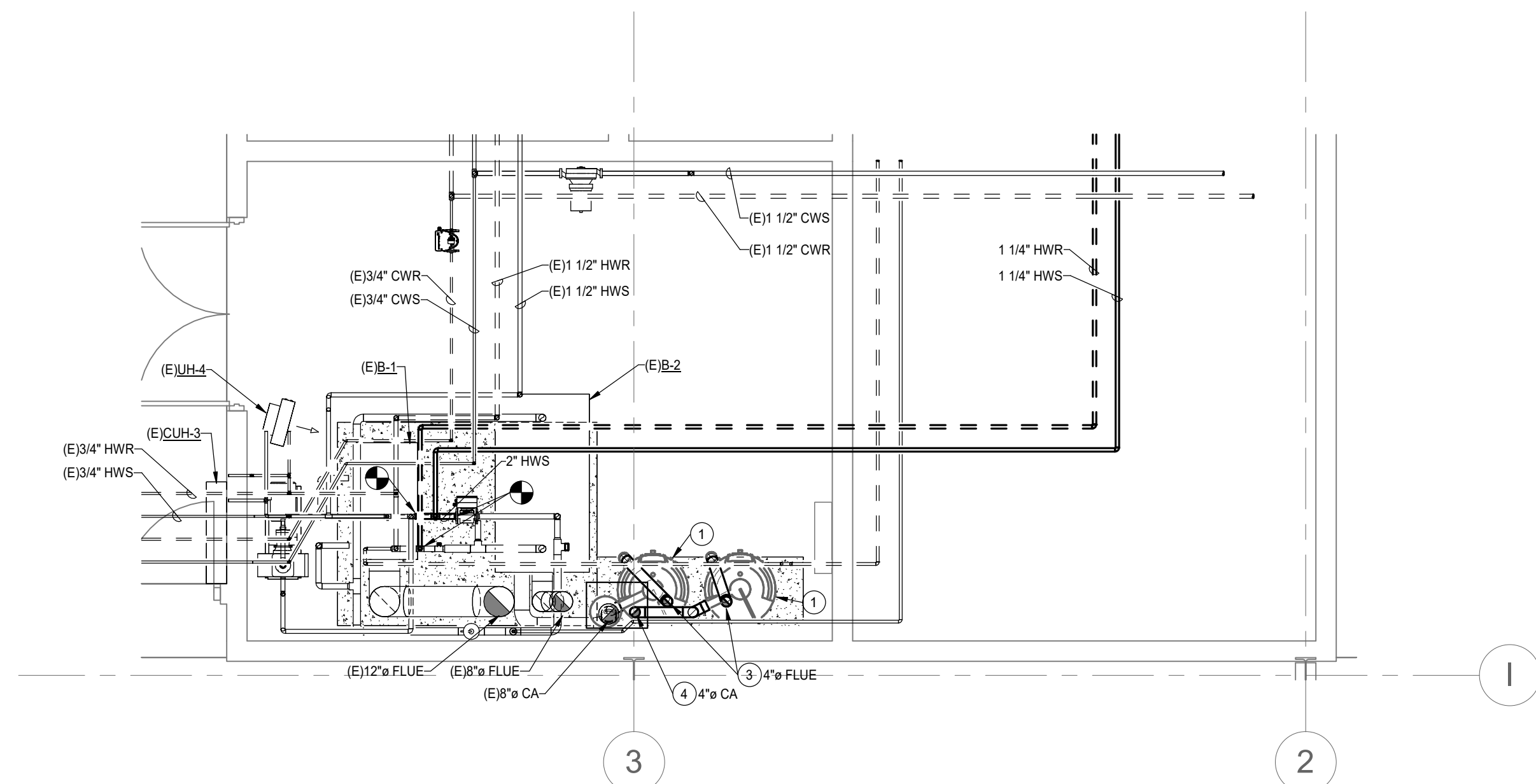
M-301



BOILER ROOM HVAC DEMO PLAN

- ## ENLARGED SCALE HVAC DEMOLITION KEYNOTES:

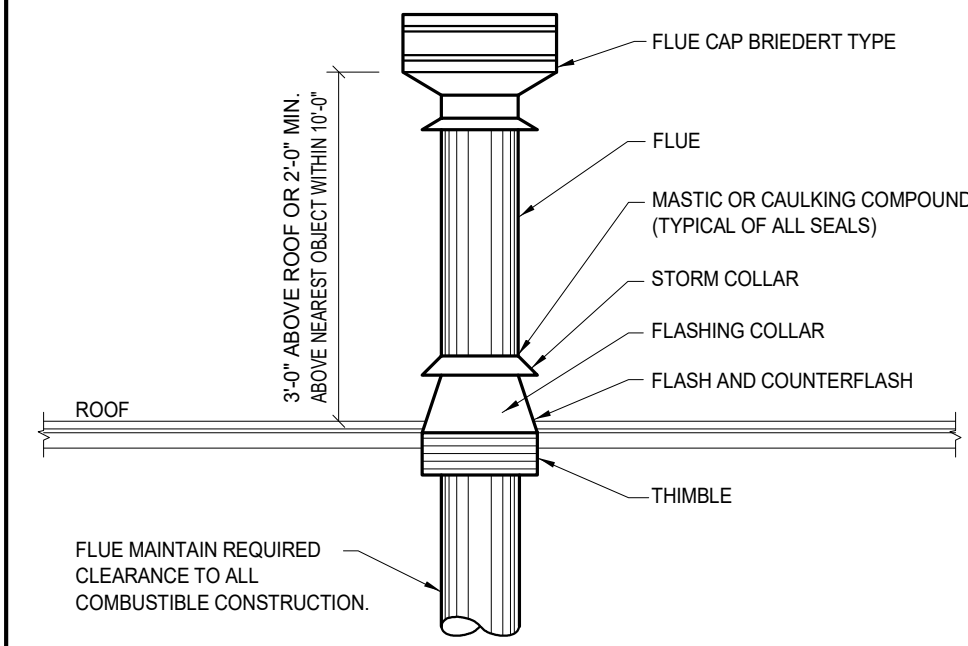
- ① PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING.
- ② REMOVE EXISTING PIPING TO THE EXTENT INDICATED.
- ③ EXISTING 24"x18" COMBUSTION AIR DUCTWORK THROUGH TO MEZZANINE ABOVE TO REMAIN.
- ④ REMOVE EXISTING PIPING TO THE EXTENT INDICATED. CAP PIPING AT CONNECTION TO THE MAIN PIPING BRANCH.



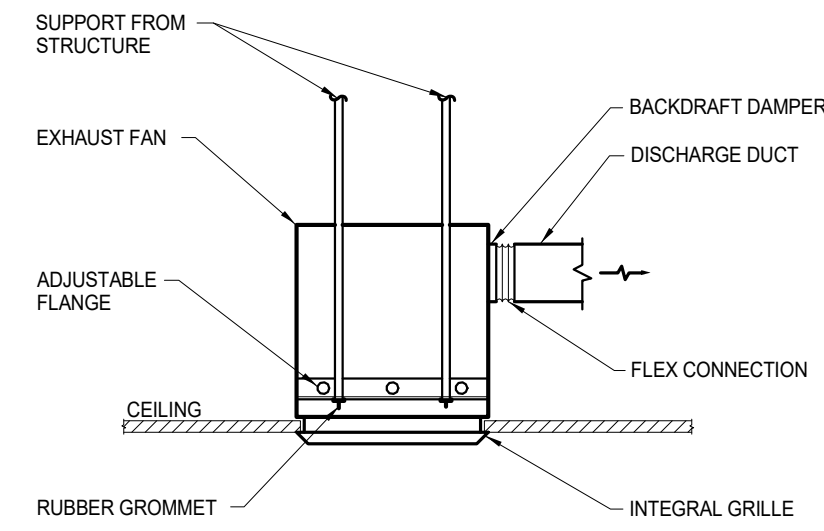
2 BOILER ROOM HVAC PLAN
M-301 SCALE: 1/4" = 1'-0"

- ENLARGED SCALE HVAC KEYNOTES:

- ① PLUMBING EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO PLUMBING
- ② CONNECT NEW HOT WATER PIPING INTO EXISTING PIPING AT MAINS.
- ③ CPVC WATER HEATER FLUE PIPE SLOPE INDICATED FROM THE WATER HEATER CONNECTION UP THROUGH MECHANICAL MEANS TO ROOF. CONFIRM WITH THE MANUFACTURER'S REQUIREMENTS. SLOPE FLUE PER CODE REQUIREMENTS. CONFIRM SIZE, TYPE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL MANUFACTURER. TERMINATE PER MANUFACTURERS REQUIREMENTS A MINIMUM OF 3'-0" ABOVE ROOF.
- ④ PVC WATER HEATER COMBUSTION AIR PIPING OF SIZE INDICATED FROM THE WATER HEATER CONNECTION UP THROUGH MECHANICAL MEANS THROUGH MEZZANINE. ROUTE COMBUSTION AIR PIPING OUT THROUGH SIDEWALL IN MEZZANINE SIMILAR TO EXISTING BOILER COMBUSTION AIR DUCTWORK. INSULATE COMBUSTION AIR PIPE WITH 1" DUCT WAPR TO PREVENT CONDENSATION. INSTALL PER THE WATER HEATER MANUFACTURER'S REQUIREMENTS. CONFIRM SIZE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL WATER HEATER MANUFACTURER.
- ⑤ PVC WATER HEATER COMBUSTION AIR PIPING OF SIZE INDICATED FROM THE WATER HEATER CONNECTION IN 2" 48" COMBUSTION AIR DUCTWORK THROUGH MEZZANINE. ROUTE COMBUSTION AIR PIPING OUT THROUGH SIDEWALL IN MEZZANINE SIMILAR TO EXISTING BOILER COMBUSTION AIR DUCTWORK. INSULATE COMBUSTION AIR PIPE WITH 1" DUCT WAPR TO PREVENT CONDENSATION. INSTALL PER THE WATER HEATER MANUFACTURER'S REQUIREMENTS. CONFIRM SIZE AND ROUTING REQUIREMENTS WITH THE SUCCESSFUL WATER HEATER MANUFACTURER.



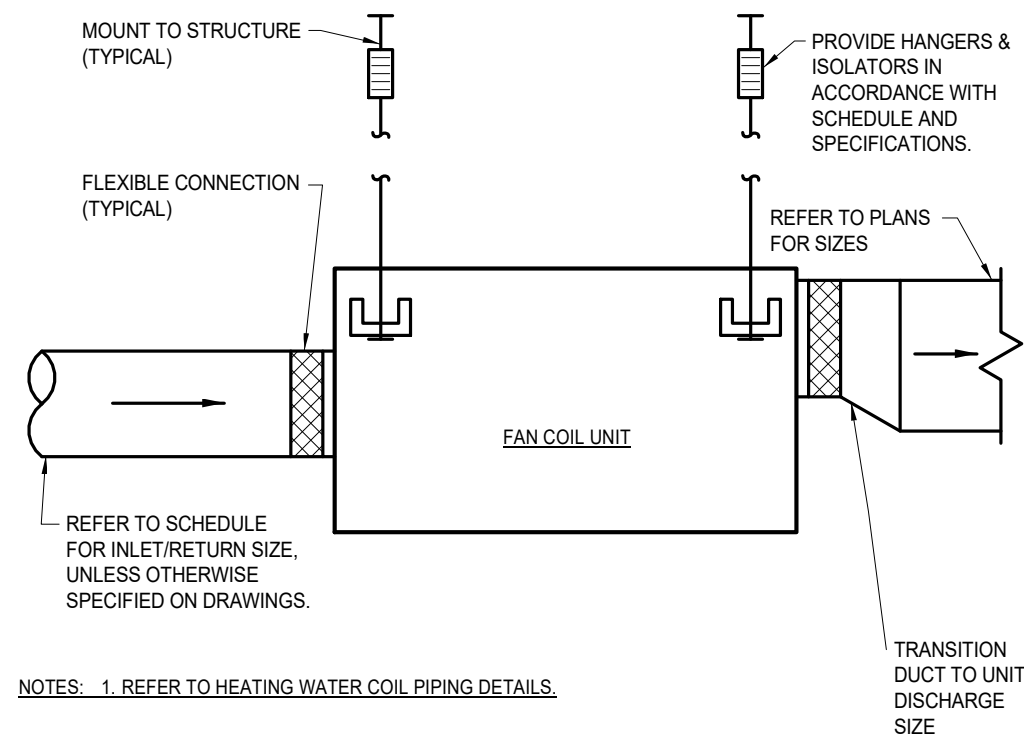
5 FLUE THRU ROOF DETAIL
M-501 SCALE: NONE



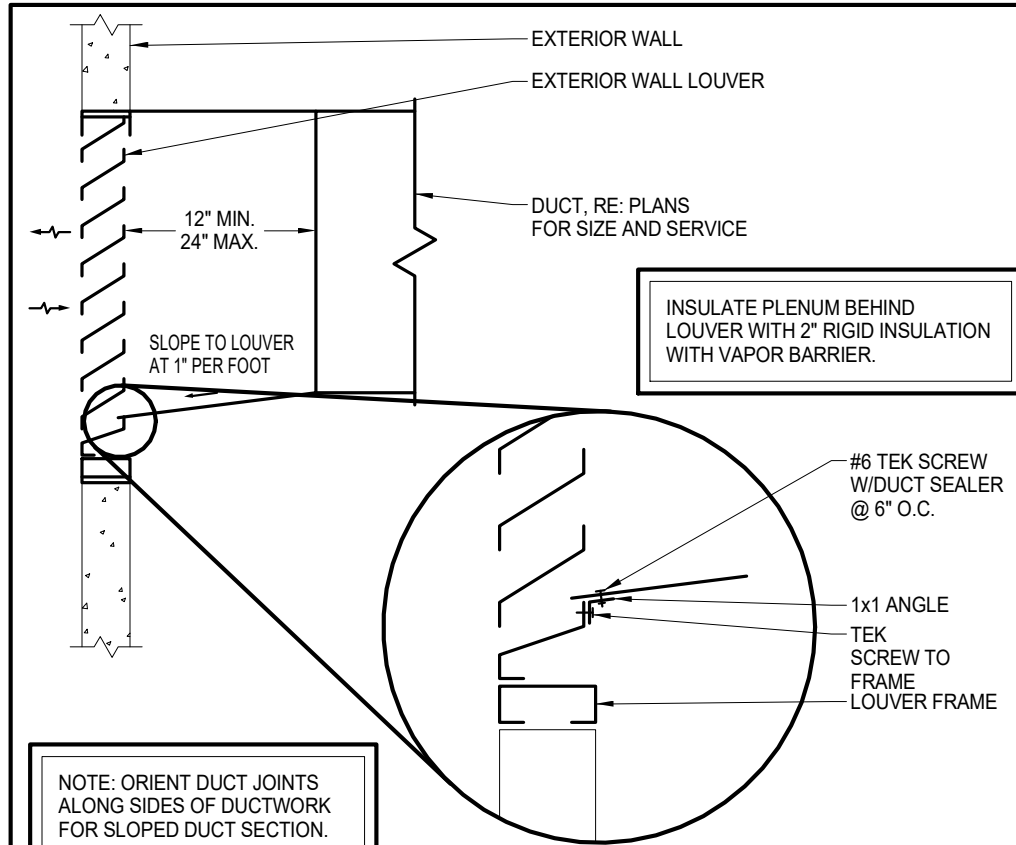
4
M-501

CEILING EXHAUST FAN DETAIL

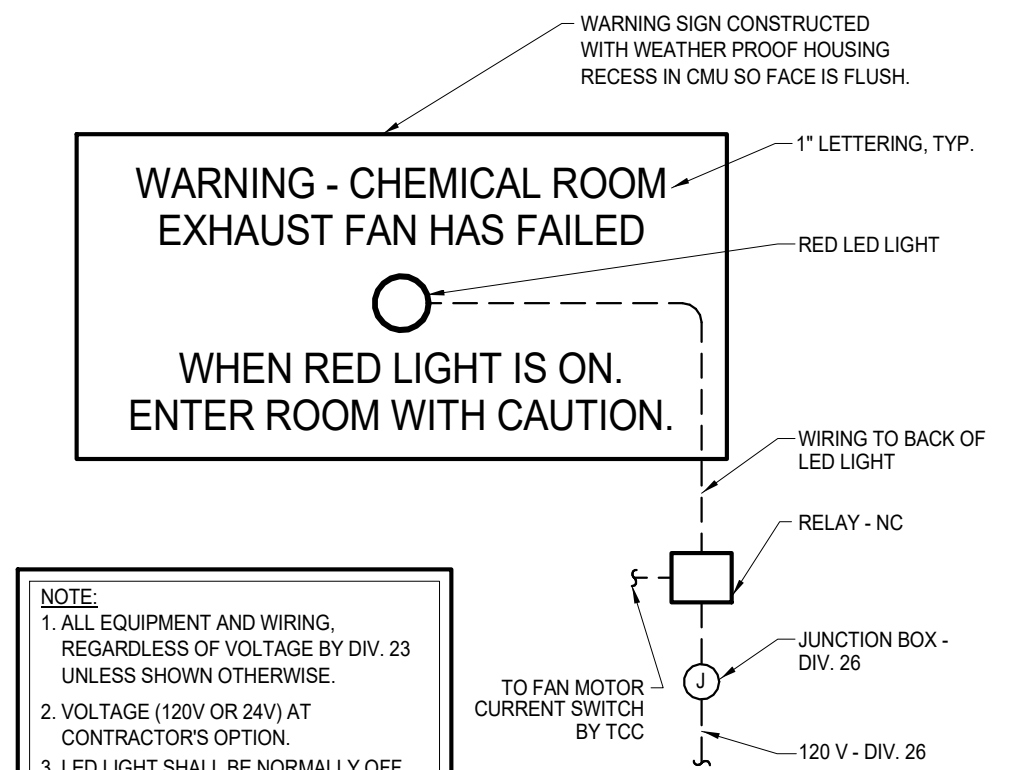
SCALE: NONE



3 FAN COIL UNIT INSTALLATION DETAIL
M-501 SCALE: NONE



2 EXTERIOR WALL LOUVER DETAIL
M-501 SCALE: NONE



1
M-501

CHEMICAL EXHAUST FAN WARNING SIGNAL DETAIL

SCALE: NONE



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DENVER, COLORADO 80205
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Mechanical Consulting Engineers
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 Lakewood, CO 80227
 (303) 988-4514
 4730 S. College Ave, Suite 203
 Fort Collins, CO 80525
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[illegible]

SCALE: NONE
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: HVAC DETAILS

SHEET #:

M-501



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
									H	L	W	
LVR-1	RUSKIN ELF375DXH	(E)EF-3	0.2	200	870	0.16	STANDARD	NOTE: 1	12"	12"	4"	NOTES: 2,3,4
LVR-2	RUSKIN ELF375DXH	(E)EF-4	0.6	500	820	0.14	STANDARD	NOTE: 1	12"	26"	4"	NOTES: 2,3,4
LVR-3	RUSKIN ELF375DXH	FCU OA	2.6	1,500	572	0.07	STANDARD	NOTE: 1	24"	32"	4"	NOTES: 2,3,4
LVR-4	RUSKIN ELF15J	EF-12	0.2	120	750	0.12	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-5	RUSKIN ELF15J	EF-13	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-6	RUSKIN ELF15J	EF-14	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
LVR-7	RUSKIN ELF15J	EF-15	0.2	120	522	0.06	STANDARD	NOTE: 1	8"	10"	2"	NOTES: 2,3
NOTES:												
1. EXTRUDED ALUMINUM.												
2. PROVIDE LOUVER WITH 1/2" BIRD SCREEN.												
3. PROVIDE LOUVER WITH 70% PVDF FINISH. CUSTOM COLOR SHALL BE MATCHED PER ARCHITECTURAL REQUIREMENTS.												
4. HEAVY DUTY LOUVER WITH FRAME AND BLADE THICKNESS OF 0.125" MINIMUM.												

FAN SCHEDULE																	
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	SONES	CFM	E.S.P. @ S.L.	RPM @ S.L.	MOTOR		DIMENSIONS (IN)			WT (LBS)	VIB. ISOL.	CONTROL	DAMPER TYPE	REMARKS
								HP	V/Ø/HZ	H	W	L					
EF-10	FANTECH FR 110	CHEMICAL	CHEM 21	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"ø		50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4
EF-11	FANTECH FR 110	CHEMICAL	CHEM 103	8.0	130	0.50"	2,143	66W	115/1/60	11"	10"ø		50	NONE	NOTE: 5	NOTE: 2	NOTE: 1,3,4
EF-12	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING 105	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-13	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING 106	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-14	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING 107	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9
EF-15	PANASONIC WHISPER FV-1115VK2	CEILING	CHANGING 108	0.3	120	0.25"	895	14W	115/1/60	7"	13"	13"	20	NONE	NOTE: 7	NOTE: 8	NOTE: 1,9

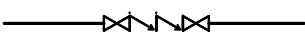
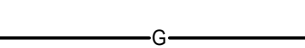
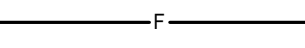
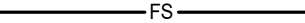
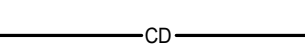
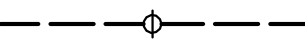
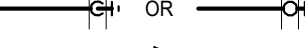
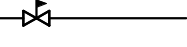
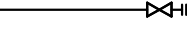
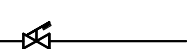
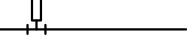
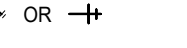
NOTES:

1. PROVIDE WITH MANUFACTURER'S ELECTRICAL DISCONNECT.
2. PROVIDE FAN WITH CPVC "ADJUSTABLE" MANUAL VOLUME DAMPER.
3. PROVIDE FAN WITH MANUFACTURER'S CLEAN AIR STACK FITTING AND MVD. REFER TO SECTION.
4. PROVIDE FAN WITH STAINLESS STEEL MOUNTING HARDWARE AND ALL CORROSION RESISTANT MATERIALS.
5. FAN SHALL OPERATE 247/365. PROVIDE A CHEMICAL EXHAUST FAN WARNING LIGHT. REFER TO DETAIL.
6. PROVIDE WITH SPRING VIBRATION ISOLATION.
7. FAN CONTROLLED BY TIME OF DAY SCHEDULE THROUGH THE BAS.
8. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.
9. PROVIDE WITH EC MOTOR. PROVIDE MOTOR MOUNTED POTENTIOMETER DIAL FOR FAN BALANCING.

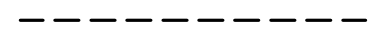
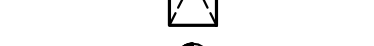
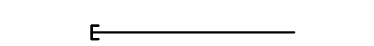
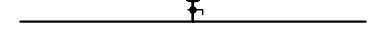
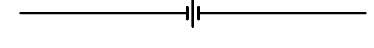
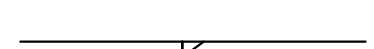
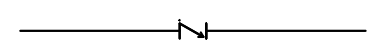
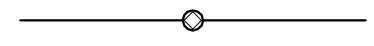
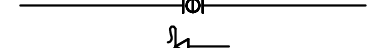
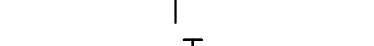
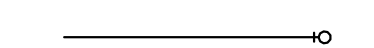
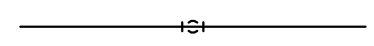
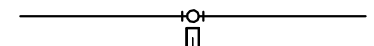
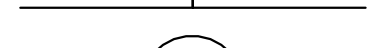
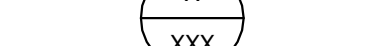
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: NONE
ISSUE DATE: 03/22/2024
PROJECT #: 23079
TITLE: HVAC SCHEDULES

M-601

PLUMBING LEGEND		
ABBV.	SYMBOL	DESCRIPTION
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
GPM		GALLON PER MINUTE
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
G		NATURAL GAS
F		FIRE LINE
FS		FIRE SPRINKLER
FDC		FIRE DEPARTMENT CONNECTION
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
V		SANITARY VENT
CD		CONDENSATE DRAIN PIPING
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO		WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
TMV		THERMOSTATIC MIXING VALVE
		QUICK OPENING VALVE
		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
HB/WH		HOSE BIBB/WALL HYDRANT
		AQUASTAT
VTR		VENT THRU ROOF
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
TD		TRENCH DRAIN

PLUMBING LEGEND		
ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
UR		URINAL
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
EWC		ELECTRIC WATER COOLER
DF		DRINKING FOUNTAIN
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP/TS		TRAP PRIMER/TRAP SEAL
PP		PLUMBING CIRC. PUMP
SP		SUMP PUMP
SE		SEWAGE EJECTOR

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
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)		NEW
(E)		EXISTING
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
AD/AP		CONTROL WIRING
		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		PRESSURE GAUGE WITH COCK
		PIPE UNION
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		PRESSURE RELIEF VALVE
PIT		PRESSURE/TEMPERATURE TEST PLUG
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
		X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

SHEET INDEX			
SHEET NUMBER	PLUMBING & FIRE PROTECTION SHEET TITLE	SHEET SCALE	SHEET ISSUED
P-000	PLUMBING COVERSHEET, INDEX, NOTES, & LEGEND	NONE	X
P-100	PLUMBING SITE PLAN	1" = 30' 0"	X
PD-101	FIRST FLOOR PLUMBING DEMOLITION	1/8" = 1' 0"	X
P-101	FIRST FLOOR PLUMBING PLAN & ROOF ADDITION	1/8" = 1' 0"	X
P-201	ENLARGED SCALE PLUMBING PLANS	1/4" = 1' 0"	X
P-301	PLUMBING DETAILS	NONE	X
P-401	PLUMBING SCHEDULE	NONE	X
P-501	PLUMBING ISOMETRICS	NONE	X

PLUMBING DEMOLITION GENERAL NOTES

- COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
- EXISTING PLUMBING PIPING, EQUIPMENT ETC IS SHOWN LIGHT.
- 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.
- ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
- 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.
- THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED PLUMBING TO MATCH EXISTING CONDITIONS.
- THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF PLUMBING SYSTEMS.
- 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.

PLUMBING GENERAL NOTES

- FIELD VERIFY EXACT LOCATION OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
- ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
- CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCIES 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.
- ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
- PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
- 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.
- ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
- 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.
- OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
- PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
- 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.
- 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.
- COMPLY WITH ALL BUILDING AND HEALTH DEPARTMENT REGULATIONS FOR PLUMBING INSTALLATION. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- FLUSH MOUNT ALL FLOOR SINKS FOR FLOOR DRAINAGE USE.
- ALL GAS PIPING, VALVES, PRV, ETC. SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL FUEL GAS CODE.

FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT APPROVAL.
- RELOCATE EXISTING FIRE SPRINKLER HEADS PER NEW WALL & CEILING LAYOUT. NEW FIRE SPRINKLER HEADS SHALL MATCH EXISTING. EXTEND (E)FS ZONE TO NEW ADDITION.
- ALL PIPING SHALL CONFORM TO NFPA 13.
- PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERERS TO ALL LOCAL CODES. BUILDING OWNER INSURANCE CARRIER, AND NFPA REQUIREMENTS.
- PROVIDE HYDRAULIC CALCULATION ALONG WITH SHOP DRAWINGS FOR ARCHITECT/ENGINEER/OWNER/CODE APPROVAL.
- IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO CALCULATE, DESIGN AND INSTALL THE FIRE PROTECTION SYSTEM(S) CALLED FOR, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT, DRAINS, SPRINKLERS, ETC. AS MAYBE REQUIRED FOR A COMPLETE, APPROVED AND OPERATIONAL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.
- THE ENTIRE BUILDING, WITH SPECIFIC EXCEPTIONS NOTED, SHALL BE PROVIDED AUTOMATIC SPRINKLER SYSTEM COVERAGE.
- EXISTING PIPING, EQUIPMENT AND SPRINKLER, WHERE INDICATED, HAVE BEEN SHOWN IN AN APPROXIMATE MANNER. THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING PIPING, EQUIPMENT, SPRINKLER, ETC. PRIOR TO COMMENCING WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING MOUNTING HEIGHTS AND LOCATION OF CEILING MOUNTED EQUIPMENT.
- FURNISH SHOP DRAWINGS OF THE SYSTEM ALONG WITH HYDRAULIC CALCULATIONS AND PRODUCT DATA OF ALL PIPING, EQUIPMENT AND SPRINKLERS PROPOSED PRIOR TO INSTALLATION.
- COORDINATE LOCATIONS OF ALL SPRINKLER WITH CEILING SYSTEMS AND ALL CEILING MOUNTED EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE BUILDING CODE.
- CONNECTIONS TO, AND SHUTDOWNS OF EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER AND LOCAL FIRE DEPARTMENT. SCHEDULE WORK TO MINIMIZE INTERFERENCE WITH OWNERS OPERATIONS AND DOWNTIME OF EXISTING SYSTEM.
- ALL DRAIN TERMINATIONS SHALL BE EXTENDED TO DISCHARGE TO THE EXTERIOR. LOCATION AS APPROVED BY ARCHITECT/ENGINEER. DRAIN PIPING SHALL BE RUN CONCEALED ABOVE CEILING OR WITHIN APPROVED RECESSES OR CHASES WITHIN BUILDING. DISARGE DRAIN LINES A MAXIMUM OF 1'-6" ABOVE FINISHED GRADE. PROVIDE CONCRETE SPLASH BLOCKS AT DRAIN TERMINATIONS WHERE OUTLETS DISCHARGE INTO LANDSCAPED AREAS.
- OFFSET PIPING AS MAYBE REQUIRED TO CLEAR EXISTING STRUCTURAL ELEMENTS, MECHANICAL AND ELECTRICAL EQUIPMENT. INCLUDE OFFSETS IN HYDRAULIC CALCULATION DATA.
- FINAL LOCATIONS OF ALL FIRE SPRINKLER SHALL BE APPROVED BY THE ARCHITECT.
- SPRINKLER INSTALLED IN FINISHED CEILING SYSTEMS SHALL BE CENTERED WITHIN CEILING TILES OR AT QUARTER POINTS ALONG THE LONGTUDINAL AXIS OF 2x4 CEILING TILES.



2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com



The Ballard Group, Inc.
Mechanical Consulting Engineers
2525 S. Wadsworth Blvd., Suite 200
Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave., Suite 203
Fort Collins, CO 80525
(970) 568-8762

Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 3/22/2024 SITE PLAN 02

SCALE: NONE

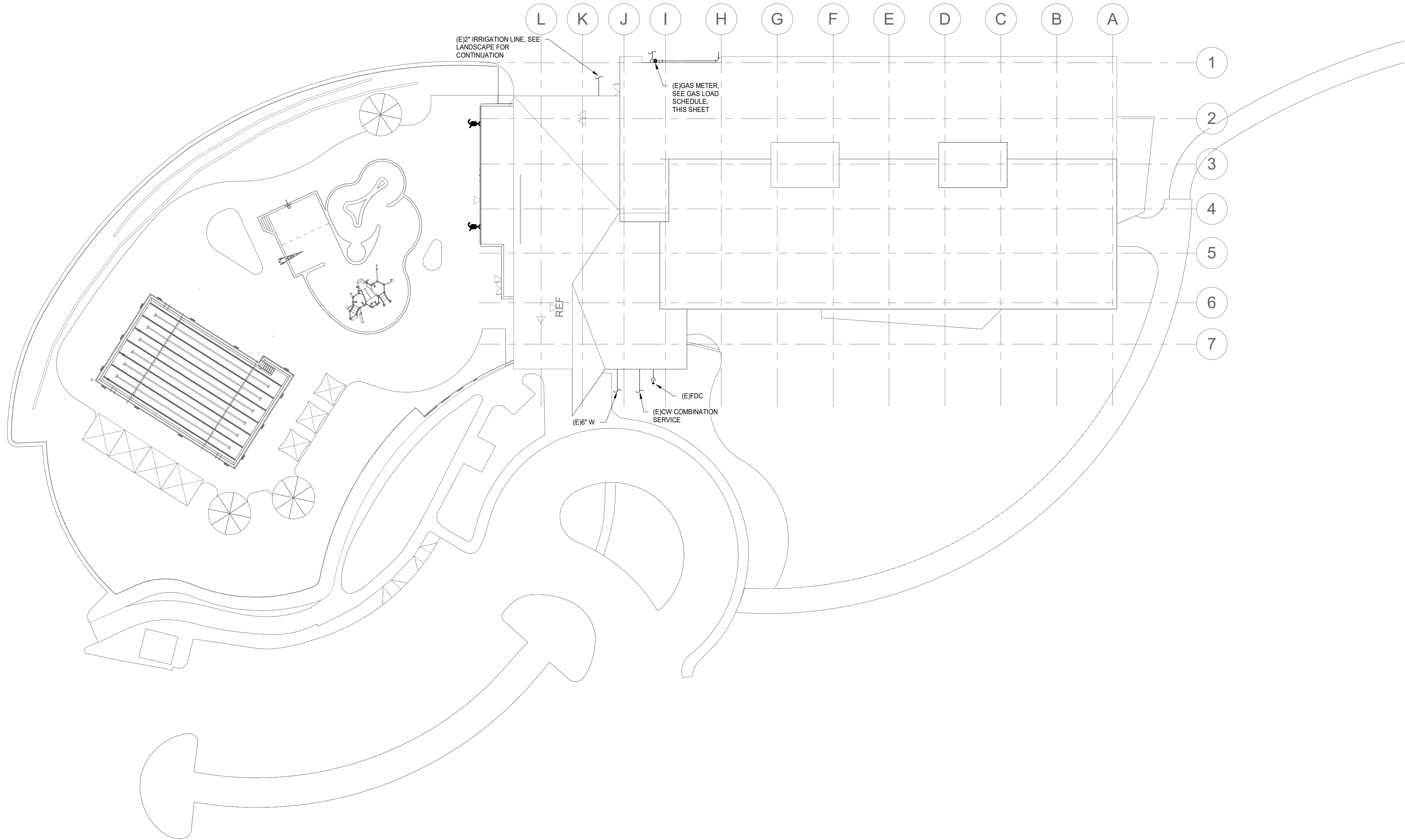
ISSUE DATE: 3/22/2024

PROJECT #: 23079

TITLE: PLUMBING COVERSHEET,
INDEX, NOTES, & LEGEND

SHEET #:

P-000



GAS LOAD SCHEDULE:

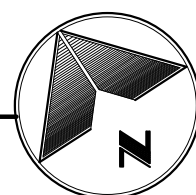
(E)APPLIANCE:	LOAD:
(E)B - 1 (BOILER)	1,112.0 MBH
(E)B - 2 (BOILER)	520.0 MBH
(E)FURN - 1(MAU)	1,200.0 MBH
(E)POOL BOILER	1,800.0 MBH
TOTAL GAS LOAD:	4,632.0 MBH INPUT REQUIRED AT S.L. UTILIZING A 3 PSI SYSTEM M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY

(N)APPLIANCE:	LOAD:
(N)LP - 1 (LAP POOL HEATER)	1,440.0 MBH
(N)RP - 1 (REC. POOL HEATER)	1,260.0 MBH
(N)RP - 2 (REC. POOL HEATER)	1,260.0 MBH
(N)GWH - 1 (GAS WATER HEATER)	250.0 MBH
(N)GWH - 2 (GAS WATER HEATER)	250.0 MBH
(E)B - 1 (BOILER)	1,112.0 MBH
(E)FURN - 1 (MAU)	1,200.0 MBH
TOTAL GAS LOAD:	6,722.0 MBH INPUT REQUIRED AT S.L. UTILIZING A 3 PSI SYSTEM M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY

ADDED LOAD: 2,140.0 MBH INPUT @ S.L.

PLUMBING SITE PLAN

SCALE: 1" = 30'-0"



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Mechanical Consulting Engineers
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Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave, Suite 203
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NO.	DATE:	TITLE/PURPOSE:
1	3/22/2024	SITE PLAN 02

SCALE: 1" = 30' 0"

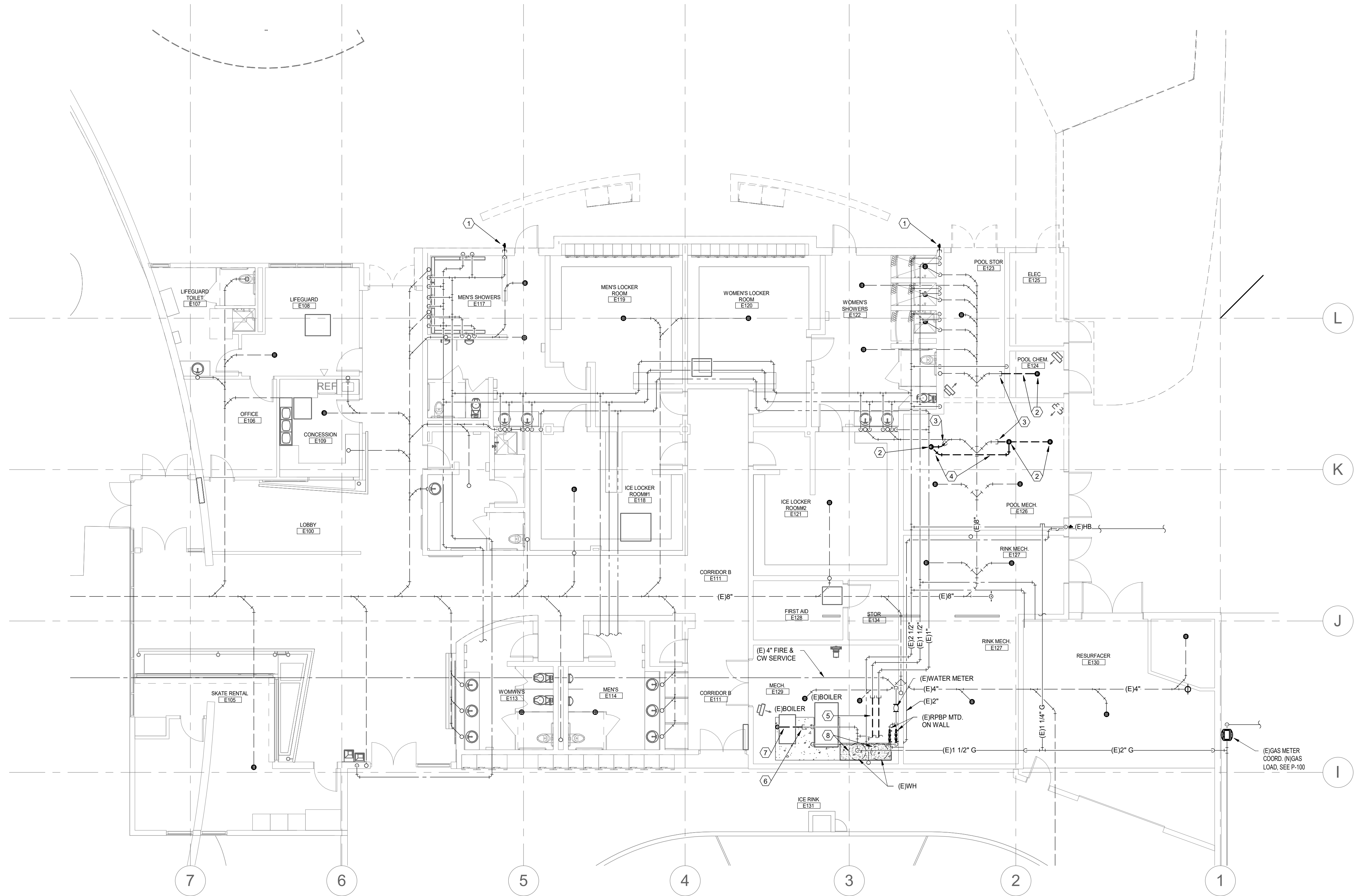
ISSUE DATE: 3/22/2024

PROJECT #: 23079

TITLE: PLUMBING SITE PLAN

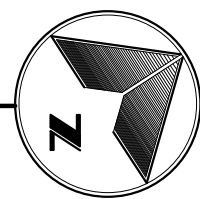
SHEET #:

P-100



FIRST FLOOR PLUMBING DEMOLITION

SCALE: 1/8" = 1'-0"



PLUMBING DEMOLITION KEYNOTES:

- 1 CAP (E)CW BEHIND WALL & REMOVE WALL HYDRANT.
- 2 REMOVE (E)FD & ASSOCIATED PIPING.
- 3 CAP (E)WASTE PIPING BELOW FLOOR.
- 4 REMOVE (E)VENT PIPING & AIR ADMITTANCE VALVE.
- 5 CAP & REMOVE (E)WATER PIPING TO (E)STORAGE TANKS.
- 6 CAP (E)GAS PIPING.
- 7 REMOVE GAS PIPING TO DEMO'D BOILER.
- 8 REMOVE (E)DOMESTIC HOT WATER HEAT EXCHANGERS & CAP PIPING FOR RECONNECTION, CAP HEATING PIPING AT MAINS.
- 9



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Mechanical Consulting Engineers
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Lakewood, CO 80227
(303) 988-4514
4730 S. College Ave, Suite 203
Fort Collins, CO 80525
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Mountain Recreation Eagle Pool

1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:

1 3/22/2024 SITE PLAN 02

SCALE: 1/8" = 1' 0"

ISSUE DATE: 3/22/2024

PROJECT #: 23079

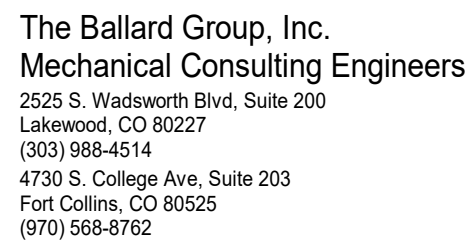
TITLE: FIRST FLOOR PLUMBING
DEMOLITION

SHEET #:

PD-101



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DENVER, COLORADO 80205
T: 303.294.9244
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Mechanical Consulting Engineers
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 Lakewood, CO 80227
 (303) 988-4514
 4730 S. College Ave, Suite 203
 Fort Collins, CO 80525
 (970) 588-8762

Mountain Recreation Eagle Pool

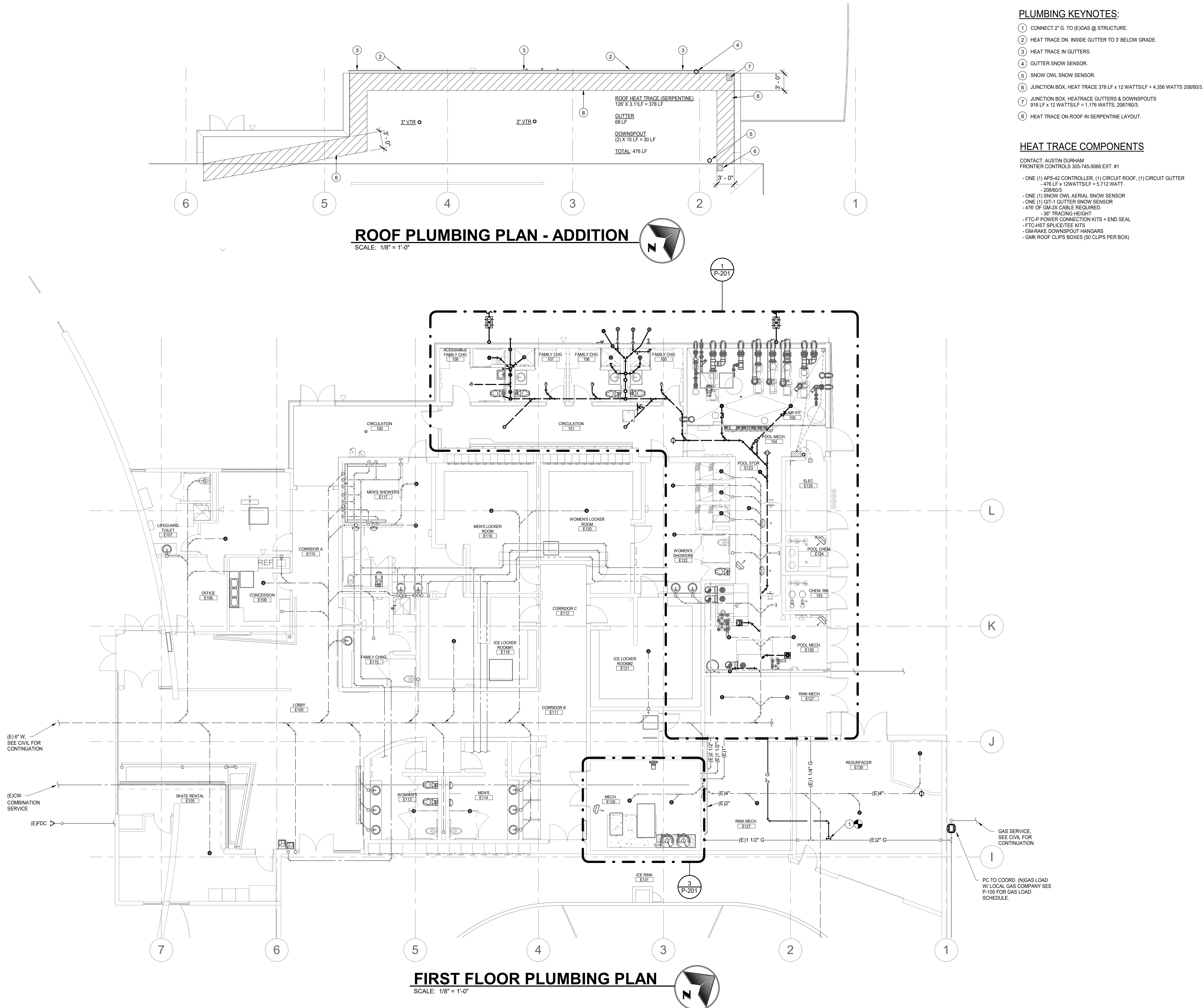
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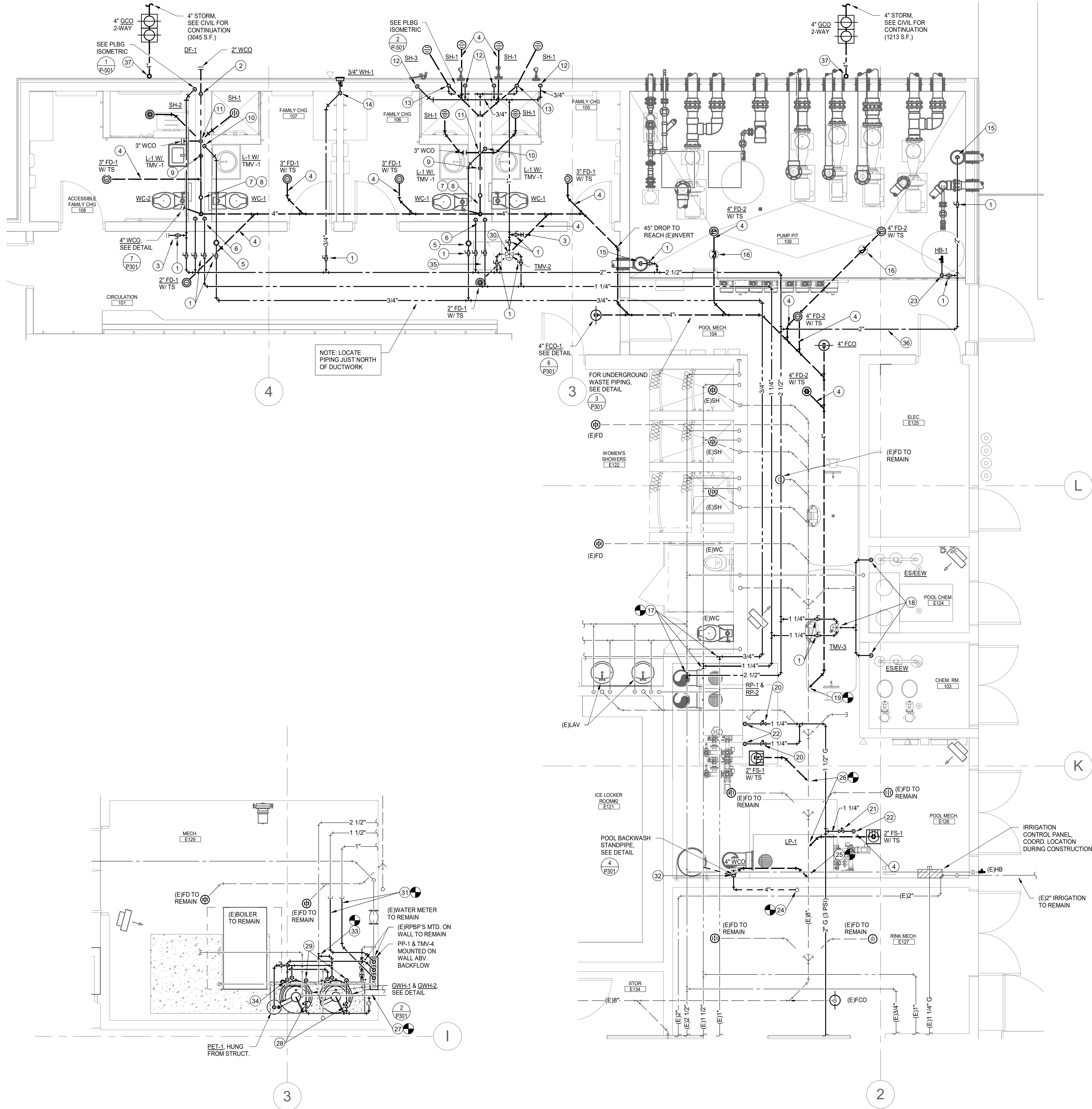
SCALE: 1/8" = 1' 0"
 ISSUE DATE: 3/22/2024
 PROJECT #: 23079
 TITLE: FIRST FLOOR PLUMBING PLAN
 & ROOF ADDITION

SHEET #:

P-101



Autodesk Docs://23079 Eagle Pool R24/23105 - Eagle Pool - PLBG - R24.rvt



PLUMBING KEYNOTES:

- 1 BALL VALVES (FULL SIZE) W/ SERVICE ACCESS.
- 2 2" W. DN., 1-1/2" V. RISE, 1/2" CW DN. TO DF-1.
- 3 1/2" DRAIN VALVE W/ HOSE CONNECTION FOR WINTERIZATION OF DF-1/SH.
- 4 COMBINATION WASTE & VENT SYSTEM.
- 5 3/4" BALANCING VALVE W/ SERVICE ACCESS, BALANCE TO 1.0 GPM.
- 6 2" CW & 1" HW DN. IN WALL & OFFSET TO FIXTURES.
- 7 4" W. DN., 2" V. RISE, & 1" CW TO WC.
- 8 2" V. RISE TO 3" VTR.
- 9 2" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO LAV.
- 10 3/4" HWC DN. IN WALL & CONNECT TO 3/4" HW WITH-IN 2' OF FAUCET.
- 11 3" W. DN., 1-1/2" V. RISE, 1/2" CW & 1/2" HW TO SH.
- 12 1/2" HW (90°F) DN. IN WALL TO SHOWER (PIPING ON WARM SIDE OF INSULATION).
- 13 2" W. DN., 1-1/2" V. RISE FOR FD.
- 14 3/4" CW DN. IN WALL TO 3/4" WH-1.
- 15 CONNECT 2" CW (POOL MAKE-UP) DN. TO FILL INLET. SEE AQUATIC DETAIL FOR VALVING.
- 16 BACKWATER VALVE W/ SERVICE ACCESS NDS #475PR.
- 17 CONNECT 2-1/2" CW, 1-1/4" HW, & 1" HWC TO (E)WATER @ STRUCTURE.
- 18 CONNECT 1-1/4" CW & 1-1/4" HW TO TMV-3, 1-1/4" (TEPID) HW TO ESIEEW.
- 19 CONNECT (N)4" W. TO (E)WASTE BELOW FLOOR. FIELD VERIFY INVER PRIOR TO ANY WORK.
- 20 2" GAS PRV. 1260 MBH INPUT @ S.L., 3.0 PSI TO 11" WC.
- 21 2" GAS PRV. 1440 MBH INPUT @ S.L., 3.0 PSI TO 11" WC.
- 22 CONNECT 2" G. TO POOL BOILERS W/ GAS COCK & 6" DIRT LEG.
- 23 3/4" CW TO HB-1.
- 24 CONNECT 4" V. RISE TO (E)VENT ON WALL.
- 25 CONNECT 8" W. TO (E)8" WASTE BELOW FLOOR.
- 26 CONNECT 2" W. (E)WASTE BELOW FLOOR.
- 27 CONNECT 1" G. TO (E)GAS @ STRUCTURE.
- 28 1" GAS PRV. 250 MBH INPUT @ S.L., 3.0 PSI TO 11" WC. SEE DETAIL 1/P301. (TYP.)
- 29 CONNECT 1" G. TO GWH W/ GAS COCK & 6" DIRT LEG.
- 30 1" CW & 1" HW TO TMV-2, 1" HW TO EXTERIOR SHOWERS.
- 31 CONNECT 1-1/2" HW & 1" HWC TO (E) WATER @ STRUCTURE.
- 32 8" W DN., 4" V. RISE FOR BACKWASH STANDPIPE. SEE DETAIL 2/P301.
- 33 CONNECT 1-1/2" CW TO (E)CW @ STRUCTURE.
- 34 EXTEND 3" HOUSKEEPING PAD FOR (N)GWH'S.
- 35 24" X 24" ACCESS PANEL.
- 36 OFFSET PIPING OVER HOIST BEAM IN THIS AREA.
- 37 CONNECT 4" STORM TO DOWNSPOUT W/ PIPE TO DOWNSPOUT ADAPTOR.

3 ENLARGED SCALE PLUMBING PLAN
P-201 SCALE: 1/4" = 1'-0"

1 ENLARGED SCALE PLUMBING PLAN
P-201 SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1' 0"
ISSUE DATE: 3/22/2024
PROJECT #: 23079
TITLE: ENLARGED SCALE PLUMBING PLANS

SHEET #:

P-201



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DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com



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Mechanical Consulting Engineers
2525 S. Wadsworth Blvd., Suite 200
Lakewood, CO 80227
(303) 988-4514
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NO. DATE: TITLE/PURPOSE:
1 3/22/2024 SITE PLAN 02



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Mechanical Consulting Engineers
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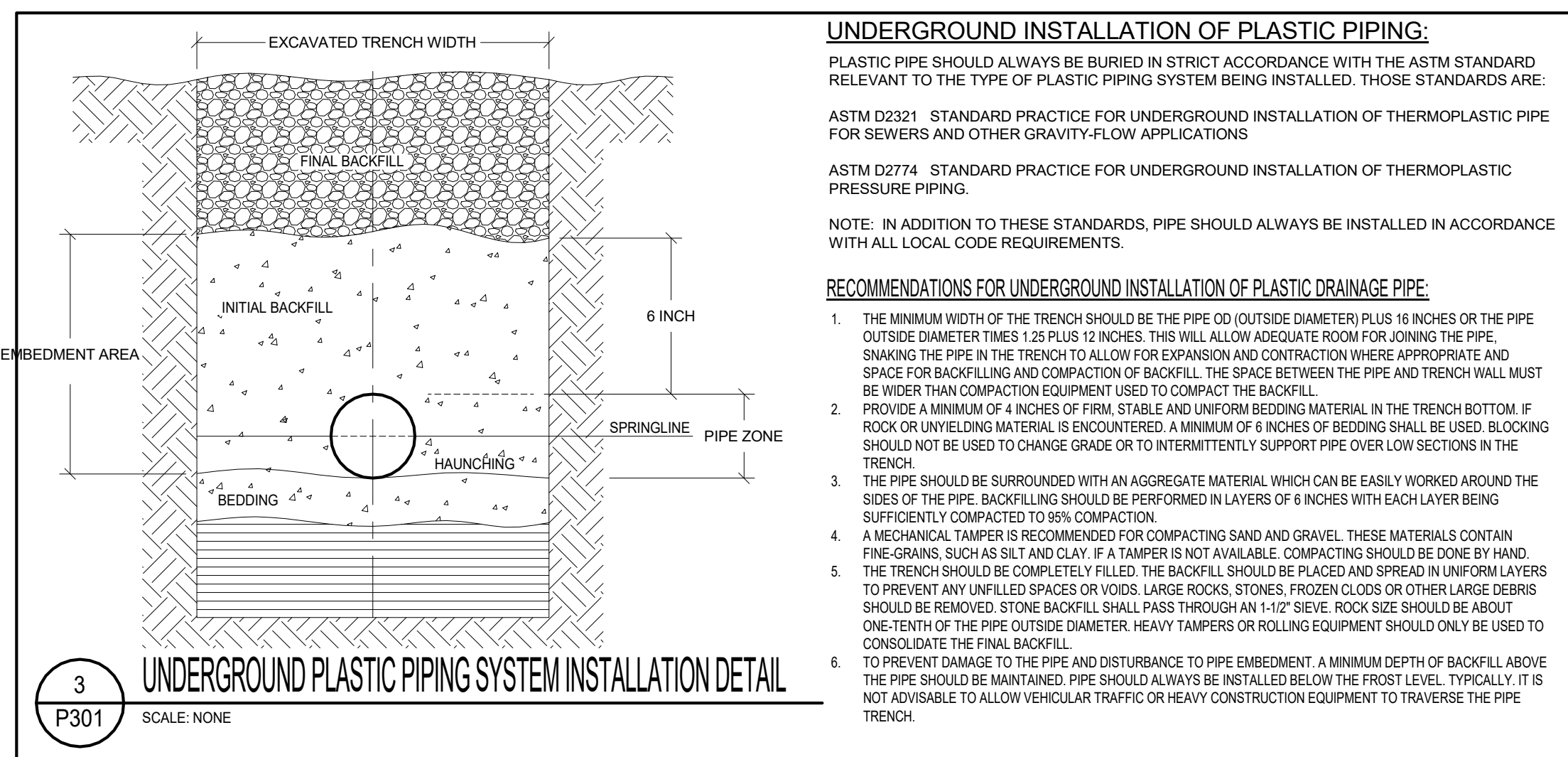
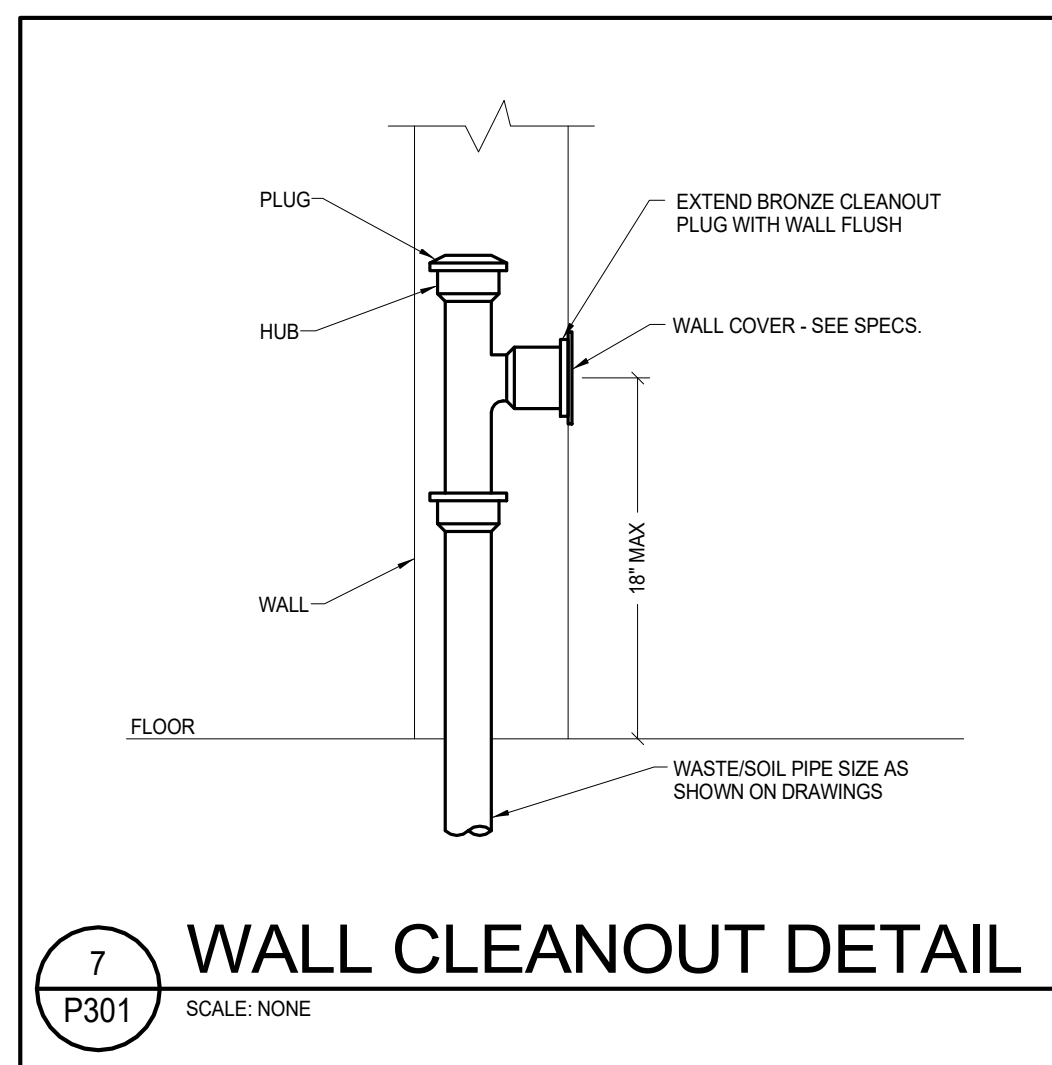
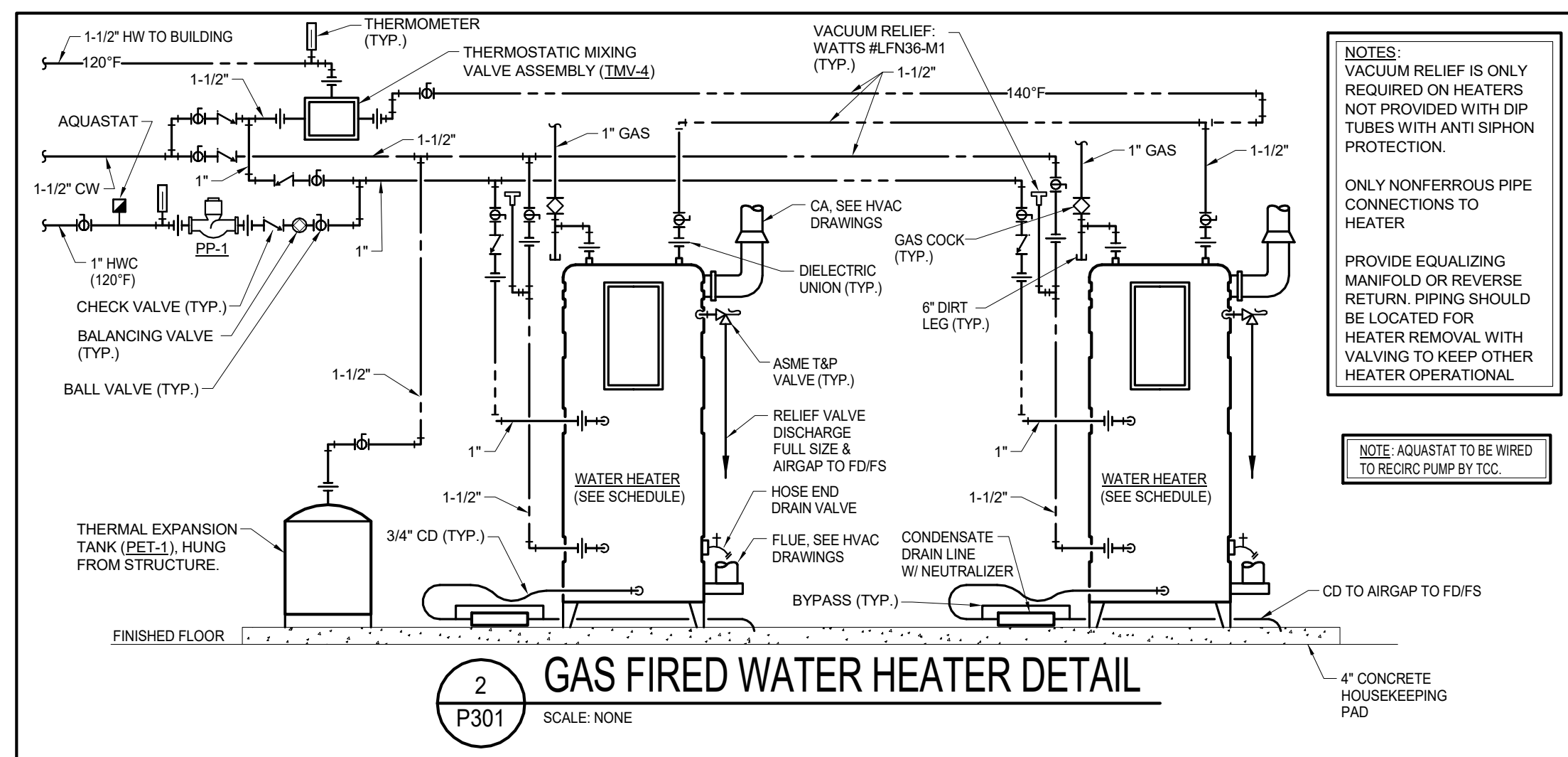
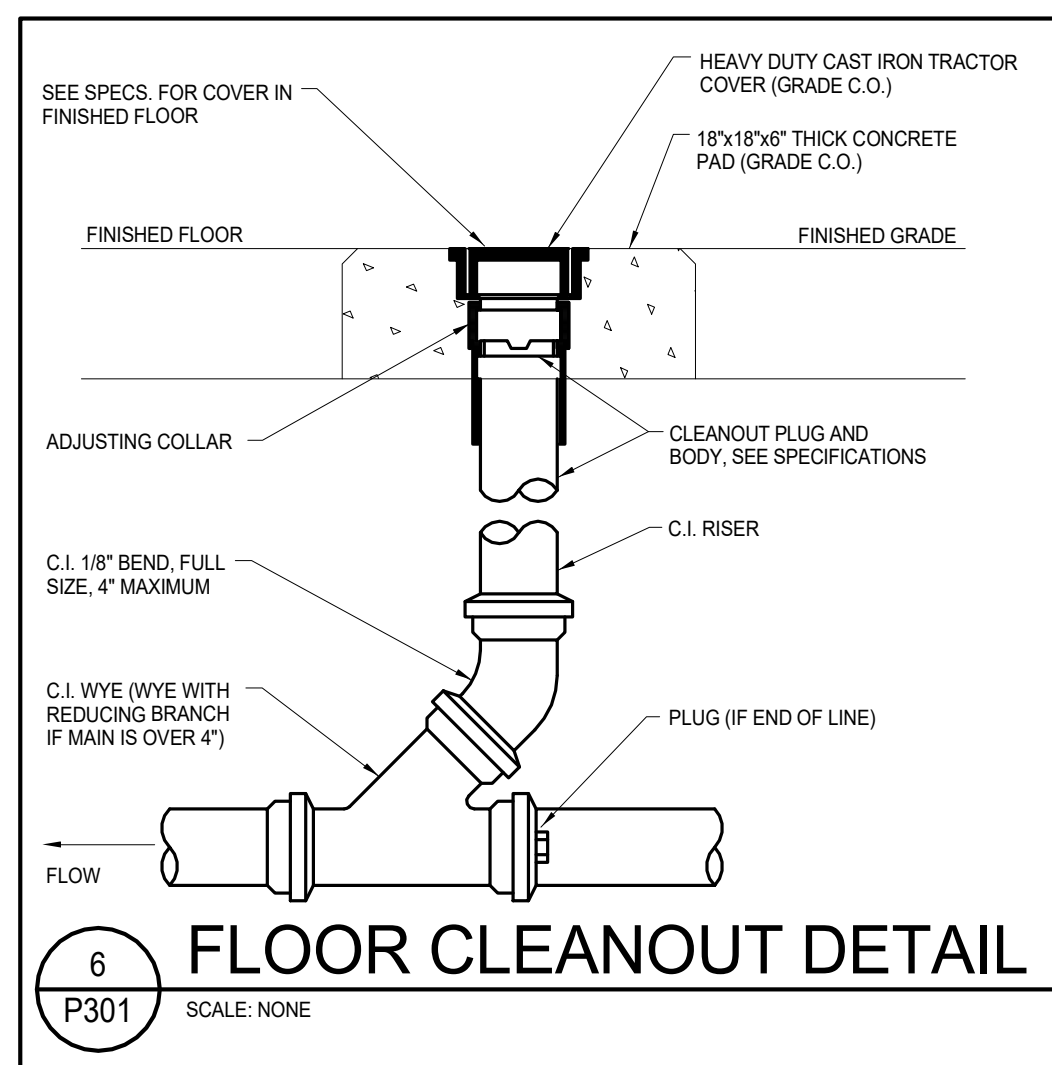
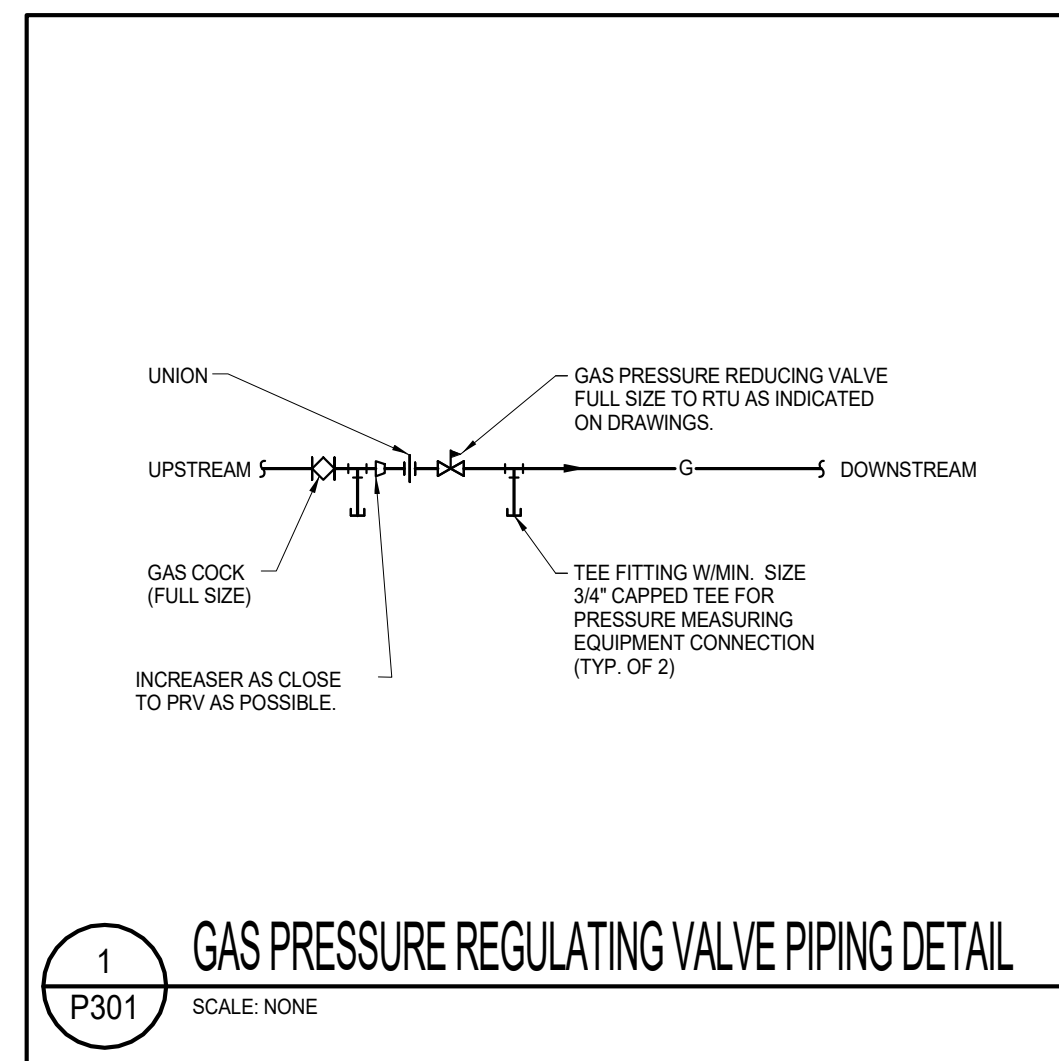
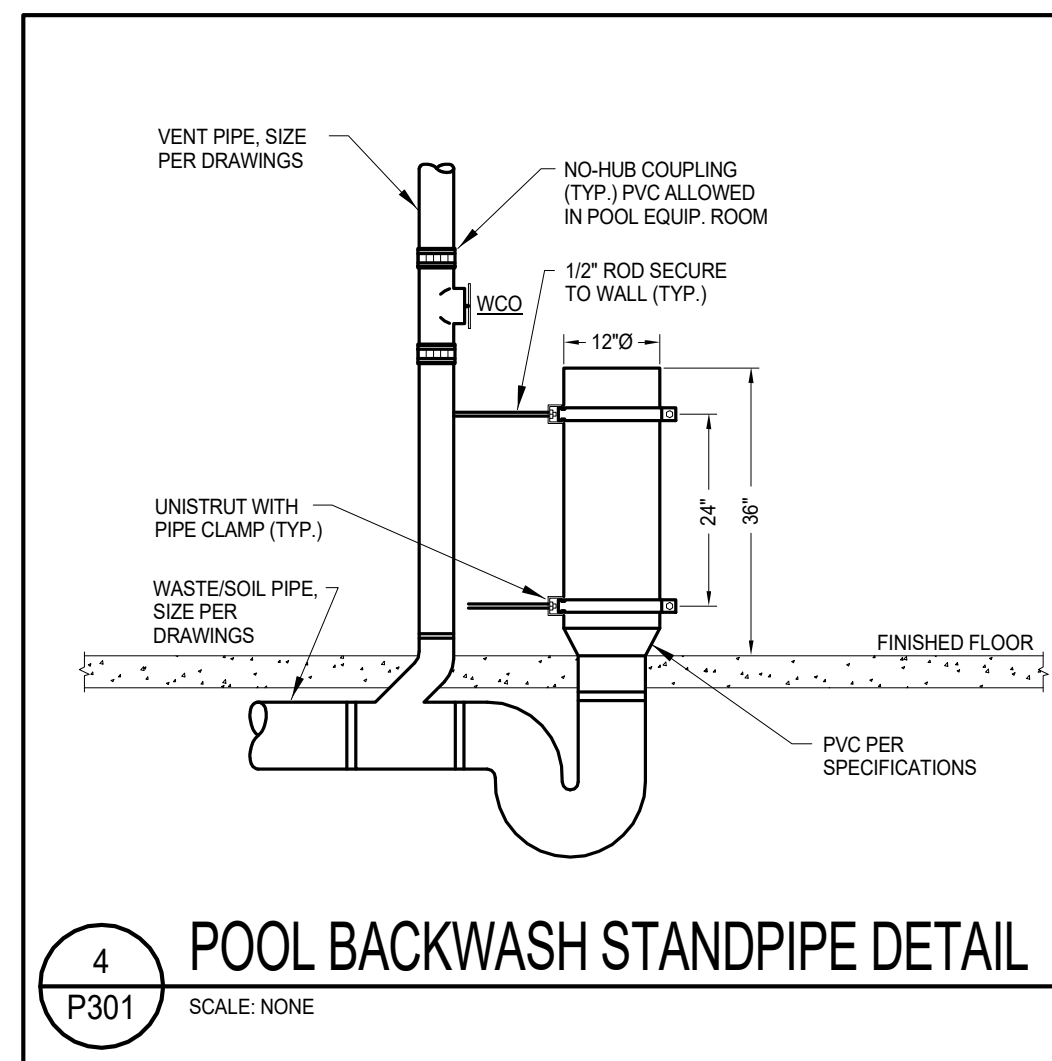
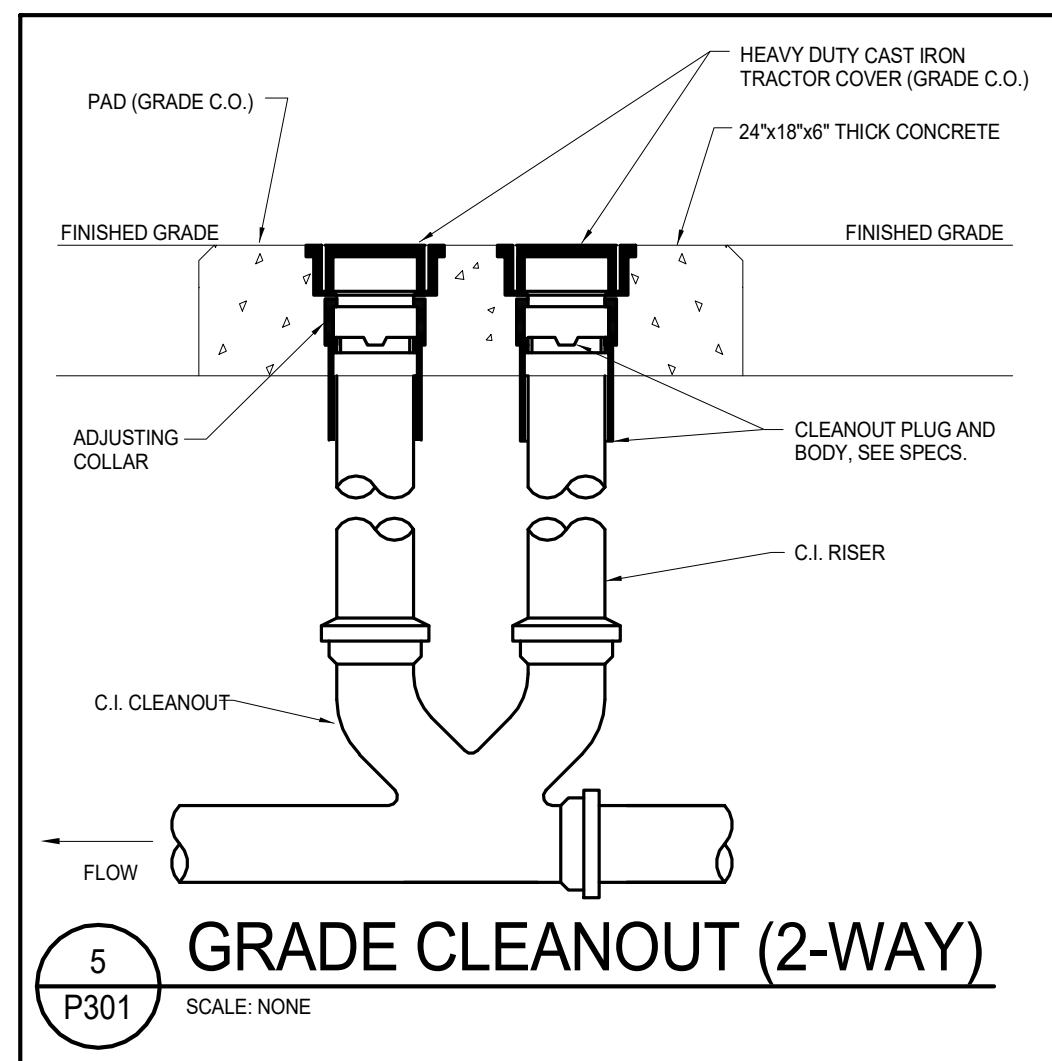
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SCALE: NONE
ISSUE DATE: 3/22/2024
PROJECT #: 23079
TITLE: PLUMBING DETAILS

SHEET #:

P-301





Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

SCALE: NONE
ISSUE DATE: 3/22/2024
PROJECT #: 23079
TITLE: PLUMBING SCHEDULE

P-401

PLUMBING PUMP SCHEDULE															
PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								HP	VOLTS	PH	RPM				
PP-1	GRUNDFOS UPS 26-99 SFC	IN-LINE	HWC (120°F)		7.0	20'		1/6	115	1		INTEGRAL	NOTE: 1		NOTE: 1
<u>NOTES:</u> 1. 24/7 TIME CLOCK, SET OCCUPIED/UNOCCUPIED W/AQUASTAT															

PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE		VENT (MIN.)	COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN		SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
DF	DRINKING FOUNT.	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WH/HB	HOSE BIB/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"	

Autodesk Docs://23079 Eagle Pool R24/23105 - Eagle Pool - PLBG - R24.rvt

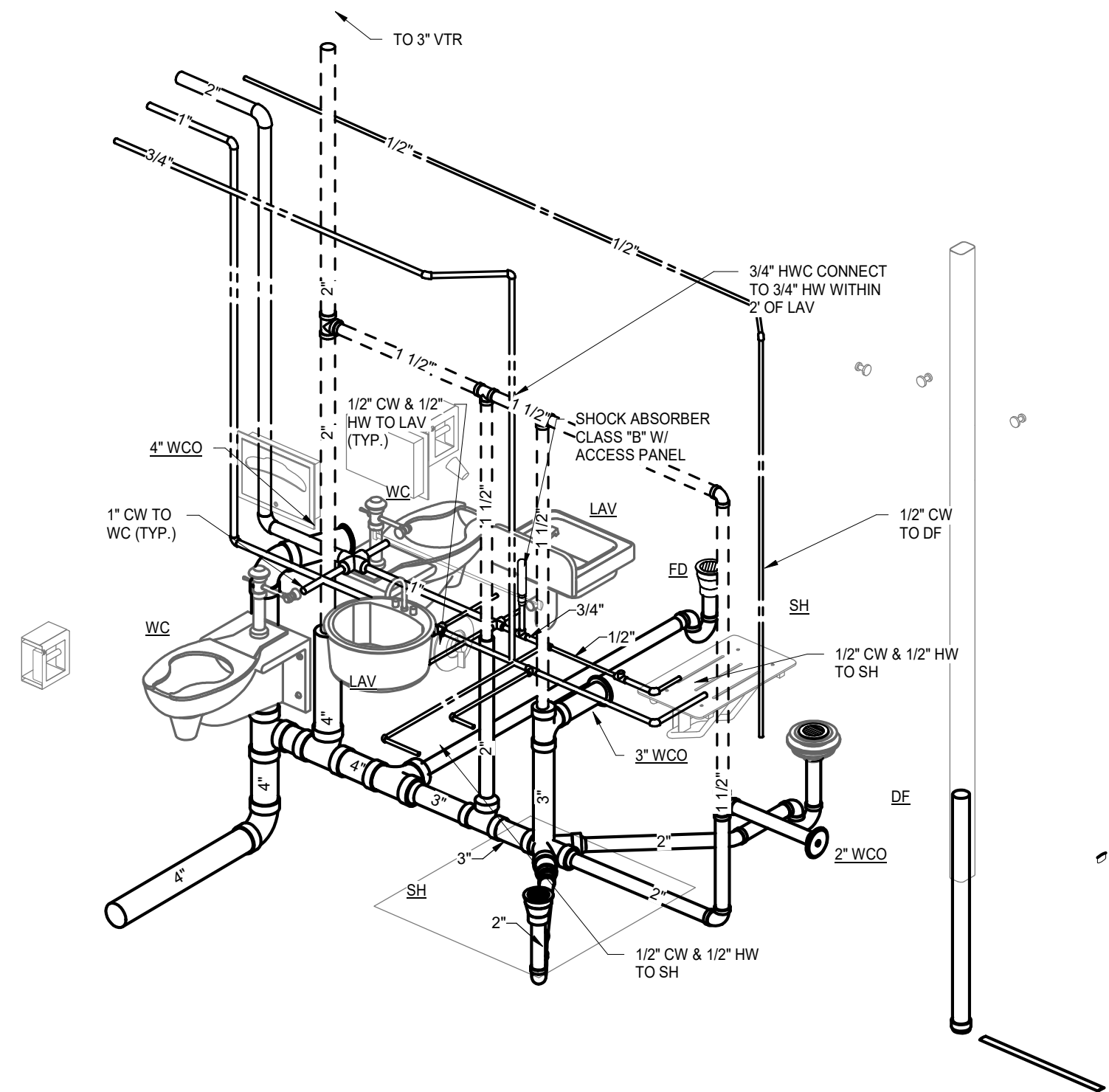
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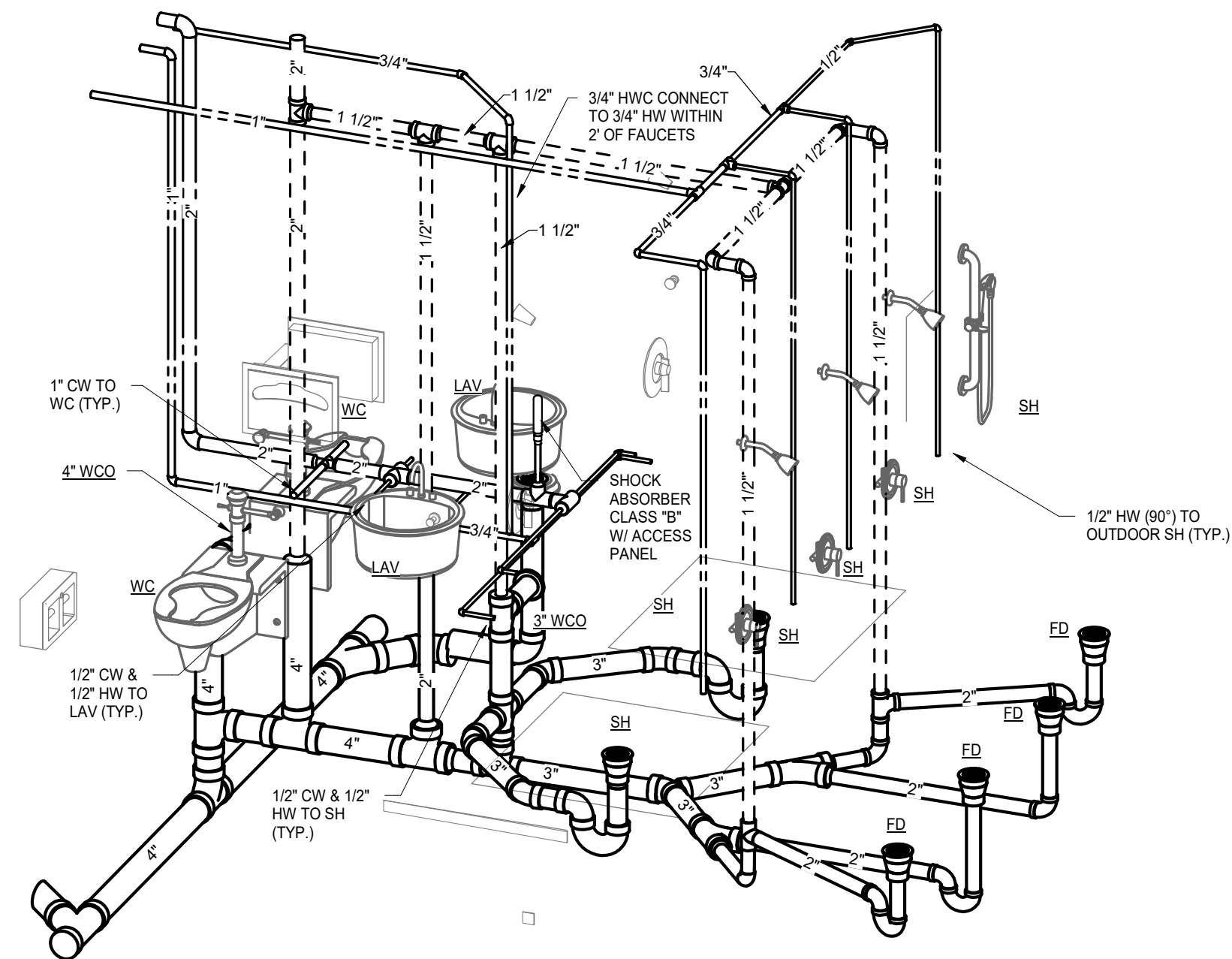
SCALE: NONE
ISSUE DATE: 3/22/2024
PROJECT #: 23079
TITLE: PLUMBING ISOMETRICS

SHEET #:

P-501



1 PLUMBING ISOMETRIC
P-501 SCALE: NONE



2 PLUMBING ISOMETRIC
P-501 SCALE: NONE

ABBREVIATIONS AND NOTATIONS	
AC	ABOVE COUNTER - VERIFY HEIGHT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISHED GRADE
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
EPC	EMERGENCY POWER CONTROL UNIT
FC	FURNITURE CONNECTION
FLA	FULL LOAD AMPS
G	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
MTTB	MAIN TELECOM. TERMINAL BACKBOARD
N	NEUTRAL
NC	NORMALLY CLOSED
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	OVERCURRENT PROTECTION
OL	OVERLOAD
SC	SHORT CIRCUIT
SDP	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOM. MAIN GROUNDING BUSBAR
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
UC	UNDER COUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
XFMR	TRANSFORMER
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REMOVED
(N)	NEW
(R)	EXISTING TO BE RELOCATED
(RL)	RELOCATED LOCATION
	KITCHEN EQUIPMENT SCHEDULE NOTATION
	ELECTRICAL EQUIPMENT SCHEDULE NOTATION
	MECHANICAL EQUIPMENT SCHEDULE NOTATION
	POOL EQUIPMENT SCHEDULE NOTATION
	DETAIL NOTE
	DELTA REVISION NOTE

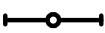
SCHEMATIC WIRING SYMBOLS

	GROUND
	CURRENT TRANSFORMER
	CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
	FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
	ENCLOSED NON-FUSED DISCONNECT SWITCH
	ENCLOSED FUSED DISCONNECT SWITCH
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER
	MOTOR
	GENERATOR
	METER
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
	ELECTRICAL FEEDER SIZE

POWER	
	DUPLEX RECEPTACLE
	DUPLEX AND TWO PORT USB CHARGING OUTLET
	GFCI DUPLEX MOUNTED UNDER SINK FOR FAUCET POWER
	FOURPLEX (DOUBLE DUPLEX) RECEPTACLE
	(2) DUPLEX RECEPTACLES AND (2) TWO PORT USB CONTROLLED DUPLEX
	COMBO RECEPTACLE/SWITCH
	SWITCHED DUPLEX RECEPTACLE
	SPLIT-WIRED RECEPTACLE
	CEILING RECEPTACLE (DUPLEX, FOURPLEX)
	SPECIAL PURPOSE RECEPTACLE
	FLOOR-MOUNTED SPECIAL PURPOSE RECEPTACLE
	FLOOR RECEPTACLE (DUPLEX, FOURPLEX)
	FLOOR-MOUNTED COMBINATION OUTLET BOX
	WIREMOLD SURFACE RACEWAY
	PLUGMOLD SURFACE RACEWAY
	CLOCK RECEPTACLE
	JUNCTION BOX
	WALL-MOUNTED J-BOX
	FLOOR-MOUNTED JUNCTION BOX
	ENCLOSED CIRCUIT BREAKER
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC CONTROLLER (STARTER)
	COMBINATION STARTER/DISCONNECT SWITCH
	MOTOR CONNECTION
	POWER POLE

	MTTB, TTB, MDF OR IDF
	TELECOMMUNICATION OUTLET
	TELECOMMUNICATION OUTLET - EXISTING
	TELEPHONE OUTLET
	WALL-MOUNTED TELEPHONE OUTLET
	DATA OUTLET
	FLOOR MOUNTED OUTLET (DATA, TELECOMMUNICATIONS, TELEPHONE)
	TELEVISION OUTLET
	SPEAKER - PAGING AND OR SOUND SYSTEM
	MICROPHONE OUTLET
	VOLUME CONTROL
	DOOR BELL OR BUZZER
	DOME LIGHT
	INTERCOM STATION
	INTRUSION DETECTION
	PANIC BUTTON
	SECURITY CAMERA, "W"-WHITE, "B"-BLACK
	EXISTING SECURITY DEVICE
	LADDER CABLE TRAY
	KEY CARD READER
	AUDIO CONTROL PANEL, TWO GANG BOX
	BLUETOOTH INPUT, TWO GANG BOX
	AV PLATE FOR USER INPUTS

SWITCHING AND CONTROLS	
	SINGLE POLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	KEY OPERATED SWITCH
	SWITCH WITH PILOT LIGHT
	THERMAL OVERLOAD SWITCH
	DIGITAL LIGHTING CONTROL SWITCH
	WALL OCCUPANCY SENSOR SWITCH
	Ceiling occupancy sensor
	PHOTOCELL/ PHOTOSENSOR
	PUSH BUTTON SWITCH
	EMERGENCY POWER CONTROL UNIT, UL 924
	TIME CLOCK
	THERMOSTAT
	RELAY

	LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. LOWER CASE SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH.
	= ALL TYPE "A" LUMINAIRES IN ROOM OR AREA UON.
	WALL-MOUNTED LUMINAIRE
	SURFACE-MOUNTED LUMINAIRE
	RECESSED LUMINAIRE
	DOWNLIGHT
	WALLWASH LUMINAIRE
	SURFACE CEILING LUMINAIRE
	SMALL PENDANT LUMINAIRE
	LARGE PENDANT LUMINAIRE
	ACCENT LUMINAIRE
	STEP LUMINAIRE
	STRIP LIGHT
	SURFACE OR PENDANT LIGHTING TRACK
	EXIT LIGHT - SHADED INDICATES FACE/ DIRECTIONAL ARROWS AS SHOWN
	EMERGENCY LIGHTING UNIT W/ BATTERY
	EMERGENCY LUMINAIRE - SHADED
	FLUORESCENT PORCELAIN LAMP HOLDER
	POOL LUMINAIRE
	CEILING FAN
	EXTERIOR AREA LIGHT
	EXTERIOR WALL PACK

	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR/GRAPHIC MAP
	MASS NOTIFICATION CONTROL PANEL
	CONTROL MODULE
	MONITOR MODULE
	HEAVY DUTY RELAY
	MANUAL PULL STATION
	WALL-MOUNTED ADA STROBE (BY FIRE CONTRACTOR)
	AND MASS NOTIFICATION STROBE (BY MASS CONTRACTOR)
	WALL-MOUNTED ADA STROBE WITH HORN
	WALL-MOUNTED ADA STROBE WITH SPEAKER (BY FIRE CONTRACTOR) AND MASS NOTIFICATION STROBE (BY MASS CONTRACTOR)
	WALL-MOUNTED HORN
	WALL-MOUNTED SPEAKER
	CEILING-MOUNTED SPEAKER
	AMPLIFIER
	ELECTROMAGNETIC DOOR HOLD OPEN
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	THERMAL DETECTOR
	PHOTOELECTRIC SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	SINGLE STATION SMOKE DETECTOR
	REMOTE INDICATING LIGHT
	REMOTE INDICATING LIGHT WITH TEST SWITCH
	120V. MOTORIZED SMOKE DAMPER
	RESCUE ASSISTANCE PHONE
	FIRE FIGHTERS PHONE JACK

DISTRIBUTION AND RACEWAY	
	SURFACE-MOUNTED PANELBOARD
	RECESSED PANELBOARD
	TRANSFORMER
	BRANCH CIRCUIT HOMERUN
	RACEWAY (CONDUIT) CONCEALED IN FLOOR OR UNDERGROUND
	RACEWAY (CONDUIT) EXPOSED OR CONCEALED IN WALL OR CEILING
	CAPPED RACEWAY (CONDUIT)
	RACEWAY UP
	RACEWAY DOWN



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL COVER SHEET

SHEET #:

E001

GENERAL NOTES FOR EQUIPMENT	
1.	FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES AND RECOMMENDED OCP SIZING PRIOR TO ENERGIZING CIRCUIT.
2.	PROVIDE 120V CONTROL WIRING AS REQUIRED BY THE MECHANICAL CONTRACT DOCUMENTS. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND THE MECHANICAL CONTROLS CONTRACTOR SHOULD BE COMPLETED PRIOR TO BIDDING. 120V CONTROL CIRCUITS SHALL BE INCLUDED IN BID.
3.	FURNISH DISCONNECT SWITCHES LOCATED EXTERIOR TO THE STRUCTURE WITH NEMA 3R ENCLOSURES UNLESS OTHERWISE SPECIFIED.
4.	PROVIDE 120V, WEATHER PROOF, GFCI SERVICE RECEPTACLE WITHIN 25'-0" OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION (HACR) EQUIPMENT. EXHAUST FANS ARE NOT CONSIDERED HACR EQUIPMENT BY THE NEC. MAX 10 RECEPTACLES PER CIRCUIT. MOUNT RECEPTACLES VERTICALLY.
5.	PROVIDE DUCT DETECTION FOR ALL RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000CFM, AND FOR ALL RETURN AIR RISERS THAT SERVE TWO OR MORE STORIES AND SERVE ANY PORTION OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM, AND ADDITIONALLY AS REQUIRED BY LOCAL CODES AND AMENDMENTS.
6.	REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROLS.
7.	INSTALL DISCONNECTS FOR EQUIPMENT ON THE EQUIPMENT OR LOCATE IMMEDIATELY ADJACENT TO EQUIPMENT. DO NOT INTERFERE WITH UNITS WORKING CLEARANCES FOR MAINTENANCE.

GENERAL NOTES FOR LIGHTING	
1.	ALL SELF CONTAINED EMERGENCY EXITS AND LIGHTS SHALL BE WIRED AHEAD OF THE SWITCHED LEG SO THEY COME ON WHEN POWER IS LOST, NOT WHEN LIGHTS ARE TURNED OFF.

ELECTRICAL POOL COORDINATION NOTES

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120V AND ABOVE WIRING FOR THE POOL. ALL LOW VOLTAGE CONTROL CABLE WILL BE BY THE POOL CONTRACTOR.
2. VFDs WILL BE PROVIDED BY THE POOL MECHANICAL CONTRACTOR, INTERLOCKS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. .
3. REFER TO AQUATIC PLANS SHEETS FOR SCHEMATIC WIRING DIAGRAM. ELECTRICAL SHALL PROVIDE CONDUIT FOR ALL POWER FEEDS, ALL LINE VOLTAGE INTERLOCKS AND ALL LOW VOLTAGE WIRE RUNS.
4. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE POOL CONTRACTOR THAT ALL STARTERS CONTAIN THE NECESSARY CONTACTS FOR THE POOL CONTROLS.
5. PROVIDE NEMA 12 ENCLOSURES FOR ALL POOL STARTERS AND DISCONNECTS. MOUNT TO STRUCTURE OR IN SOME CASES A UNISTRUT FRAME.
6. PROVIDE HAND/OFF/AUTO SWITCHES AND TIMECLOCKS FOR ALL PUMP STARTERS.
7. CIRC PUMP VFDs WILL HAVE A BYPASS FUNCTION TO ALLOW PUMP MOTOR OPERATION BY BYPASSING THE VARIABLE FREQUENCY DRIVE. THIS WILL BE FURNISHED WITH THE VFD BY POOL CONTRACTOR.
8. PROVIDE MANUAL SPEED ADJUSTMENT ON VFD STARTERS. THIS SHOULD BE BY A KEYPAD OR DIAL MOUNTED ON THE FRONT OF THE STARTER ENCLOSURE.
9. VFD MANUFACTURER OR MANUFACTURERS REP MUST PROVIDE FIELD TESTING OF ALL VFD MOTOR DRIVES.
10. VFDs MUST BE LABELED TO OPERATE BETWEEN 15 AND 110 DEGREES CENTIGRADE AS WELL AS HUMIDITY OF UP TO 90% NON CONDENSING.
11. FEATURE PUMPS SHALL ONLY OPERATE WHEN THE FILTRATION PUMP IS IN "AUTO" MODE.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR POOL CONTRACTORS LOW VOLTAGE CABLE. PROVIDE IN BID AND COORDINATE WITH THE POOL CONTRACTORS REQUIREMENTS.

HOUSE KEEPING PADS	
1.	PROVIDED BY GC. THESE WILL NEED TO BE COORDINATED WITH ELECTRICAL SHOP DRAWINGS AND STRUCTURAL ENGINEER. PADS SHALL BE 4" DEEP AND EXTEND PAST EQUIPMENT BY AT LEAST 4". PROVIDE FOR ALL FLOOR MOUNTED EQUIPMENT INCLUDING MAIN GEAR, SERVICE DISCONNECT AND CT CABINET OUTSIDE AND TRANSFORMERS. TRANSFORMERS HAVE BEEN LINED UP WHERE POSSIBLE SO A SINGLE PAD CAN BE PROVIDED FOR PADS BEING POURED ON THE SLAB ON VOID.

POOL BONDING REQUIREMENTS

1. THE POOL CONCRETE REINFORCING STEEL REBAR SHALL BE BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS AN EQUIPOTENTIAL BONDING GRID FOR ALL PARTS REQUIRED BY THE 2017 NEC 680.26 TO BE BONDED TOGETHER. BONDING LUGS TO BE SUPPLIED BY POOL CONTRACTOR.
2. WHERE REINFORCING STEEL OF THE POOL SHELL OR THE REINFORCING STEEL OF COPING STONES AND DECK IS ENCAPSULATED WITH A NONCONDUCTIVE COMPOUND OR ANOTHER CONDUCTIVE MATERIAL IS NOT AVAILABLE, PROVISIONS SHALL BE MADE FOR AN ALTERNATIVE MEANS TO ELIMINATE VOLTAGE GRADIENTS THAT WOULD OTHERWISE BE PROVIDED BY UNENCAPSULATED, BONDED REINFORCING STEEL. THESE PROVISIONS ARE AS FOLLOWS:
 - A. CREATE AN EQUIPOTENTIAL BONDING GRID CONSTRUCTED OF MINIMUM 8 AWG BARE SOLID CONDUCTORS. CONDUCTORS SHALL BE BONDED TO EACH OTHER AT ALL POINTS OF CROSSING. CONNECTIONS SHALL BE MADE AS REQUIRED BY 680.26(b).
 - B. THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE POOL AND THE POOL DECK EXTENDING 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL. THE GRID SHALL BE ARRANGED IN A 12" X 12" NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 4".
 - C. THE BELOW-GRADE GRID SHALL BE SECURED WITHIN OR UNDER THE POOL AND DECK MEDIA.
3. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE EQUIPOTENTIAL BONDING GRID:
 - A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
 - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
 - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
 - D. METAL PARTS ASSOCIATED WITH POOL COVERS.
 - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL.
 - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
4. ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT PENETRATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
5. BONDING CONDUCTORS SHALL BE MINIMUM 8 AWG SOLID COPPER. ELECTRICAL CONTRACTOR SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
6. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
7. THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
8. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE EQUIPOTENTIAL BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
9. ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.

1. UNLESS OTHERWISE NOTED, ITEMS SHOWN ON THE DRAWINGS SHALL BE AS FOLLOWS:
LIGHT LINE WEIGHT = EXISTING TO REMAIN
DARK LINE WEIGHT = NEW OR RELOCATED
CROSS-HATCHING = TO BE REMOVED
2. FOR 120V, 20-AMPERE BRANCH CIRCUITS, PROVIDE THE FOLLOWING SIZE CONDUCTORS:
0-100 FEET: 12 AWG
101-175 FEET: 10 AWG
176-265 FEET: 8 AWG
THE DISTANCES INDICATED REPRESENT THE CONDUCTOR LENGTH FROM THE PANELBOARD TO THE FARTHEST OUTLET ON THE CIRCUIT.
3. TWO-CIRCUIT MULTIWIRED BRANCH CIRCUITS ARE PROHIBITED.
4. UNDERGROUND RACEWAYS AND RACEWAYS EMBEDDED IN SLABS: ALL ELBOWS AND VERTICAL RISERS (STUB-UPS) SHALL BE PVC-COATED RIGID METAL CONDUIT (RMC). THIS INCLUDES ALL SERVICE, FEEDER, BRANCH CIRCUIT, AND SYSTEMS RACEWAYS.
5. SUBMITTAL COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF THE MECHANICAL, POOL, AND OTHER EQUIPMENT SUBMITTALS REQUIRING ELECTRICAL CONNECTION(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ROUGH-IN OF ANY DISCREPANCIES BETWEEN THE ELECTRICAL CHARACTERISTICS INDICATED ON THE CONSTRUCTION DOCUMENTS AND THOSE LISTED ON THE SUBMITTAL DOCUMENTS.
6. THE ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF:
 - A. BUILDING DEPARTMENT
 - B. CITY, COUNTY, AND STATE LAWS, ORDINANCES, AND AMENDMENTS.
 - C. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
 - D. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
 - E. THE RULES, REGULATIONS, AND STANDARDS OF THE UTILITY COMPANY SUPPLYING ELECTRIC SERVICE TO THE BUILDING.
12. SHOULD ANY CHANGE TO THE CONSTRUCTION DOCUMENTS BE REQUIRED TO COMPLY WITH GOVERNMENTAL OR UTILITY REGULATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO EXECUTION OF THE WORK. THIS WORK SHALL BE CARRIED OUT ACCORDING TO THE APPLICABLE REQUIREMENT(S) WITH THE INSTRUCTION OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
13. UTILITIES: THE CONTRACTOR SHALL COOPERATE FULLY WITH THE LOCAL UTILITY COMPANIES WITH RESPECT TO THEIR SERVICES. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY COSTS TO BE INCURRED RELATIVE TO THE POWER SERVICE (PRIMARY AND/OR SECONDARY), TELEPHONE SERVICE, DATA SERVICE, TV SERVICE AND CITY FIBER SERVICE.
14. ELECTRICAL CONTRACTOR SHALL HAVE THE MANUFACTURER OF ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS AND METER ENCLOSURES PROVIDE ARC-FLASH HAZARD WARNING SIGNS PER NEC 110.16. ARC FLASH CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER IN THE SHOP DRAWINGS FOR APPROVAL.
15. DRAWINGS WILL CALL OUT SPECIFIC PARTS IN AREAS, THESE ARE NOT INTENDED TO BE A SOLE SOURCE ITEM. THESE ARE THE BASIS OF DESIGN. OWNER, ARCHITECT AND ENGINEER APPROVED EQUALS ARE FINE PENDING THEY MEET ALL SPECIFICATIONS SHOWN ON THE PLANS AND SPECIFICATION BOOKLET.
16. PROVIDE SCHEDULE 40 PVC CONDUITS IN POOL PUMP HOUSE.
17. ALL SITE CIRCUITS, 120V, SHALL BE #10 COPPER UNLESS OTHERWISE NOTED ON PLANS.
18. EXPOSED CONDUIT SHALL BE KEPT TO A MINIMUM IN THE BATHHOUSE. EXPOSED CONDUITS WILL BE ALLOWED IN THE UTILITY ROOM, JANITOR CLOSET, AND PLUMBING CHASES. ELECTRICAL CONTRACTOR SHALL RUN CONDUITS UNDERGROUND THEN STUB UP INTO CMU WALLS. FOR ITEMS MOUNTED TO THE CEILING CONDUITS SHALL BE RUN IN CEILING CAVITY. IF EXPOSED CANNOT BE AVOIDED PRIOR TO ROUGH-IN PROVIDE THE ARCHITECT AND ENGINEER WITH ROUTING IN AN RFI. EXPOSED CONDUITS SHALL BE RUN IN GROUPS, TIGHT TO THE DECK, AND PAINTED. THIS MUST BE ACCOUNTED FOR IN BID. ELECTRICAL CONTRACTOR SHALL PASS THIS ON TO HIS SUBS. NO EXPOSED CABLE. ALL CONDUITS RUN IN WALLS AND CEILING CAVITY.
19. USE GALVANIZED HANGERS AND UNISTRUT FOR ALL SUPPORT SYSTEMS.
20. THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT SHALL BE FIELD MARKED PER FAULT CURRENT CALCULATION AS "___ A" AND DATED "___, ___, ___" PER NEC 110.24(A).

SCHEMATIC COORDINATION NOTES	
1.	REFER TO AQUATIC AND MECHANICAL PLANS AND NARRATIVES FOR THEIR SCOPE. ELECTRICAL WILL PROVIDE CONDUCTORS, CONDUIT AND DISCONNECTS FOR ALL POOL AND MECHANICAL EQUIPMENT.

ELECTRICAL DEMOLITION NOTES	
1.	EXISTING BUILDING AND SITE ELECTRICAL IS TO BE COMPLETELY REMOVED. CIVIL PLANS INDICATE THE EXISTING BUILDING AND SITE BEING REMOVED.
2.	EXISTING WIRE AND CONDUITS SHOULD BE REMOVED. EXISTING CONDUITS CAN BE REUSED TO THE EXTENT POSSIBLE FOR EXISTING ITEMS BEING REPLACED AND REUSED FROM THE NEW BUILDING. BUT ALL NEW WIRE SHOULD BE PROVIDED NO MATTER WHAT.
3.	THE GENERAL CONTRACTOR SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT AS INDICATED ON DEMO PLANS. DISCARD ALL EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ELECTRICAL SERVICE TO DEVICES AND EQUIPMENT AND PROVIDING TEMPORARY POWER.



**2000 LAWRENCE ST
DENVER, COLORADO 80205
T: 303.294.9244
www.olcdesigns.com**

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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL GENERAL NOTES

SHEET #:

E002



*innovative
electrical
systems, inc.*

8093 West Hill Lane
Lakewood, CO 80227
303-807-7181
kly@iesystems-inc.com

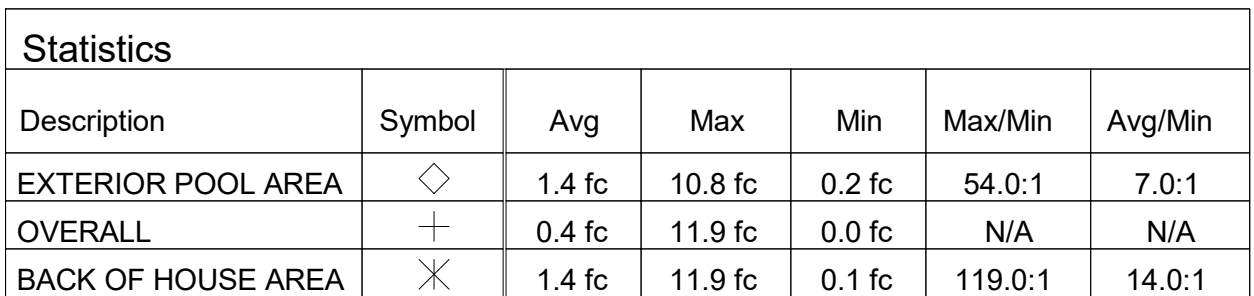
Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

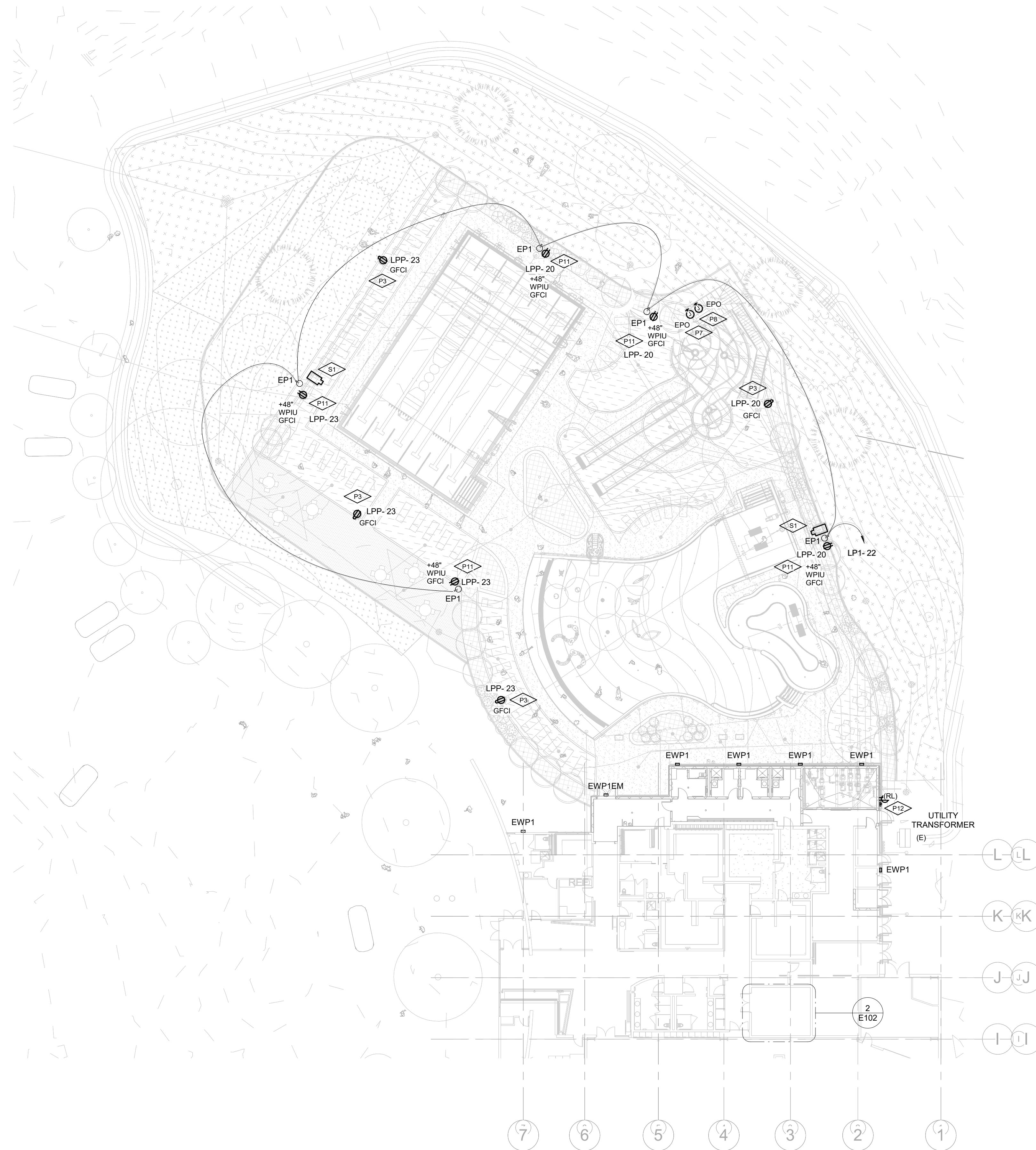
SCALE: 1" = 20'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: ELECTRICAL PHOTOMETRIC
 SITE PLAN

SHEET #

E003



1 ELECTRICAL PHOTOMETRIC SITE PLAN
1" = 20'-0"



1 ELECTRICAL SITE PLAN
1" = 20'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P3	PROVIDE BLACK POWER PEDESTAL, NEMA 3R, HINGED LOCKABLE TOP, SPACE FOR A NEMA 5-20R, GFCI DEVICE, 42" TALL, PEDOC #1P42-C-HT-B OR EQUAL, WILL NEED TO BE BOLTED TO A CONCRETE BASE. BASE NEEDS TO BE PROVIDED BY THE GC.
P7	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF OPEN FLUME SLIDE PUMP, PP2. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "OPEN FLUME SLIDE EMERGENCY SHUTOFF".
P8	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF CLOSED FLUME SLIDE PUMP, PP3. COORDINATE MOUNTING AT TOP OF SLIDE WITH STAIR PROVIDER PRIOR TO ROUGH-IN. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "CLOSED FLUME SLIDE EMERGENCY SHUTOFF".
P11	PROVIDE GFCI DUPLEX WITH WP/II COVER MOUNTED TO POLE.
P12	RELOCATE EXISTING METER TO THE EXTERIOR WALL OF THE NEW POOL MECHANICAL ROOM.
S1	POLE MOUNTED CAMERA. PROVIDE 120V TO CAMERA.



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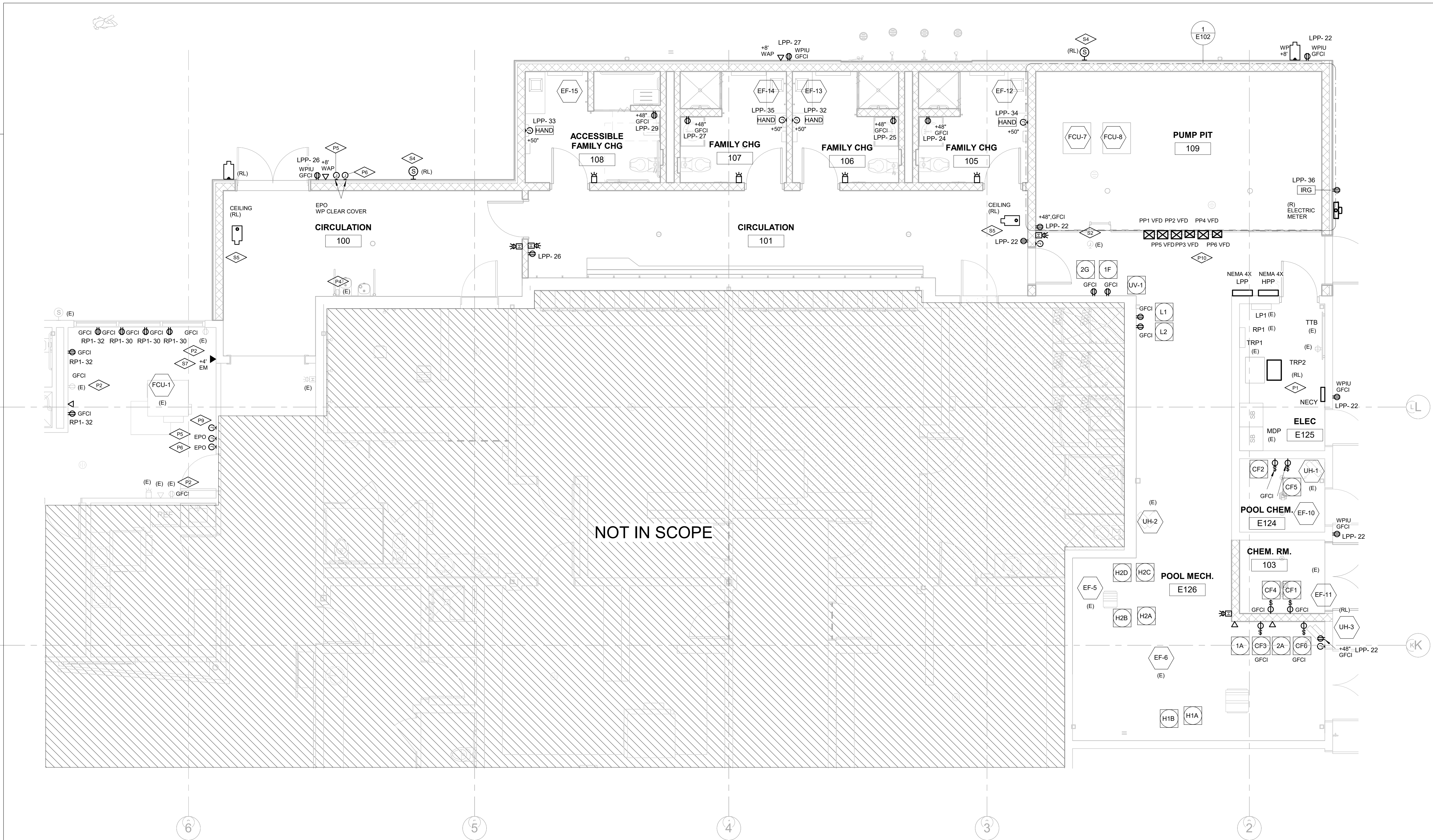
NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE: 1" = 20'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: ELECTRICAL SITE PLAN

SHEET #:

E100

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1 FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
P1	MOUNT NEW 45KVA TRANSFORMER ABOVE EXISTING TRANSFORMER SUSPENDED. REFER TO DETAIL 1 SHEET E510.
P2	REPLACE EXISTING NEMA 5-20R OUTLET WITH NEW NEMA 5-20R GFCI DEVICE.
P4	PROVIDE A NEW NEMA 5-20R DEVICE AND CONNECT TO EXISTING CIRCUIT.

KEYNOTE LEGEND	
Key Value	Keynote Text
P5	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LAP POOL CIRCULATION PUMP, PP1, AND ALL PUMPS INTERLOCKED WITH IT. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LAP POOL EMERGENCY SHUTOFF".

KEYNOTE LEGEND	
Key Value	Keynote Text
P6	PROVIDE A RED MUSHROOM HEAD EPO SWITCH TO TURN OFF LEISURE POOL CIRCULATION PUMP. PP5 AND ALL PUMPS INTERLOCKED WITH IT. PP4 AND PP6. EPO SHALL BE 24V WITH A NORMALLY CLOSED MAINTAINED CONTACT. PROVIDE WP ENCLOSURE. LABEL "LEISURE POOL EMERGENCY SHUTOFF".

KEYNOTE LEGEND	
Key Value	Keynote Text
P9	PROVIDE (4) REMOTE START/STOP PUSHBUTTONS AT THIS LOCATION. (1) FOR OPEN FLUME SLIDE PUMP PP2 LABELED "OPEN FLUME SLIDE", (1) FOR CLOSED FLUME SLIDE PUMP PP3 LABELED "OPEN FLUME SLIDE", (1) FOR CURRENT CHANNEL PUMP PP4 LABELED "CURRENT CHANEL", (1) FOR SPRAY FEATURES PUMP PP6 LABELED "SPRAY FEATURE".

KEYNOTE LEGEND	
Key Value	Keynote Text
P10	VFD DRIVES ARE FURNISHED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. TYPICAL (6). mOUNT TO A UNISTRUT RACK.
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.

KEYNOTE LEGEND	
Key Value	Keynote Text
S4	MOUNT RELOCATED SPEAKERS AS HIGH UP ON WALL AS POSSIBLE. RECONNECT TO EXISTING SOUND SYSTEM.
S5	RELOCATED CAMERA FROM OUTSIDE.
S7	PROVIDE EMERGENCY PHONE WITH DIRECT DIAL TO "911" WHEN PICKED UP.



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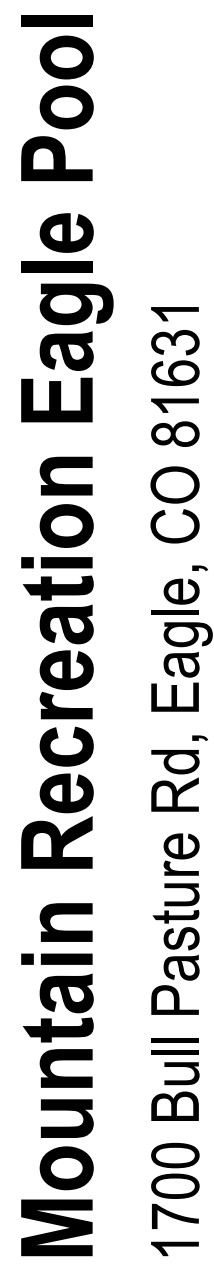
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ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: FIRST FLOOR POWER & SYSTEMS PLAN

SHEET #:

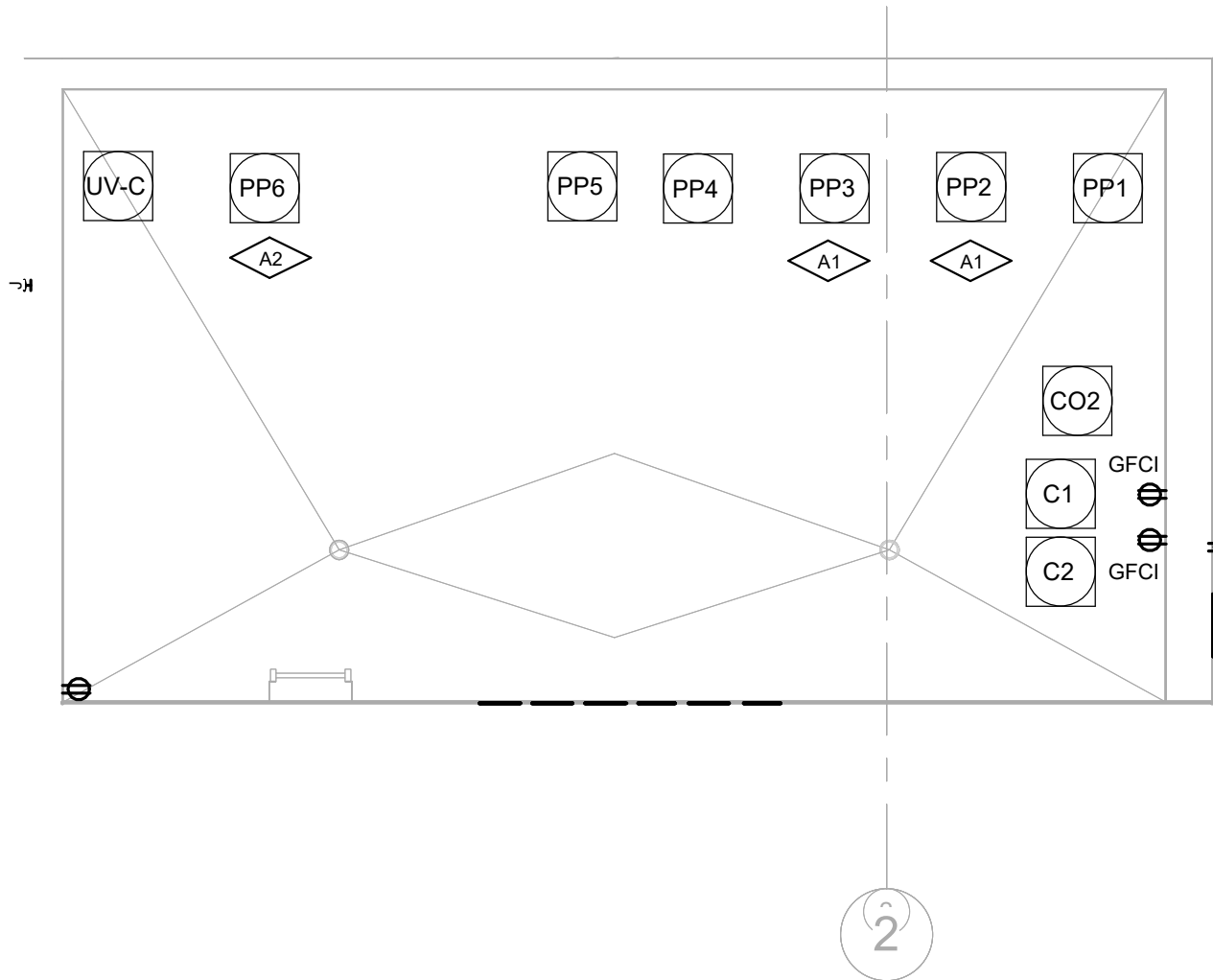
E101



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KEYNOTE LEGEND	
Key Value	Keynote Text
A1	PRICE ALL PARTS ASSOCIATED WITH SLIDE PUMPS AS ALTERNATE #1.
A2	PRICE ALL PARTS ASSOCIATED WITH THE SPRAY FEATURE PUMP AS ALTERNATE #2.



1 POOL PIT POWER PLAN
1/4" = 1'-0"

MECHANICAL ROOM NEW PLUMBING
EQUIPMENT
1/4" = 1'-0"

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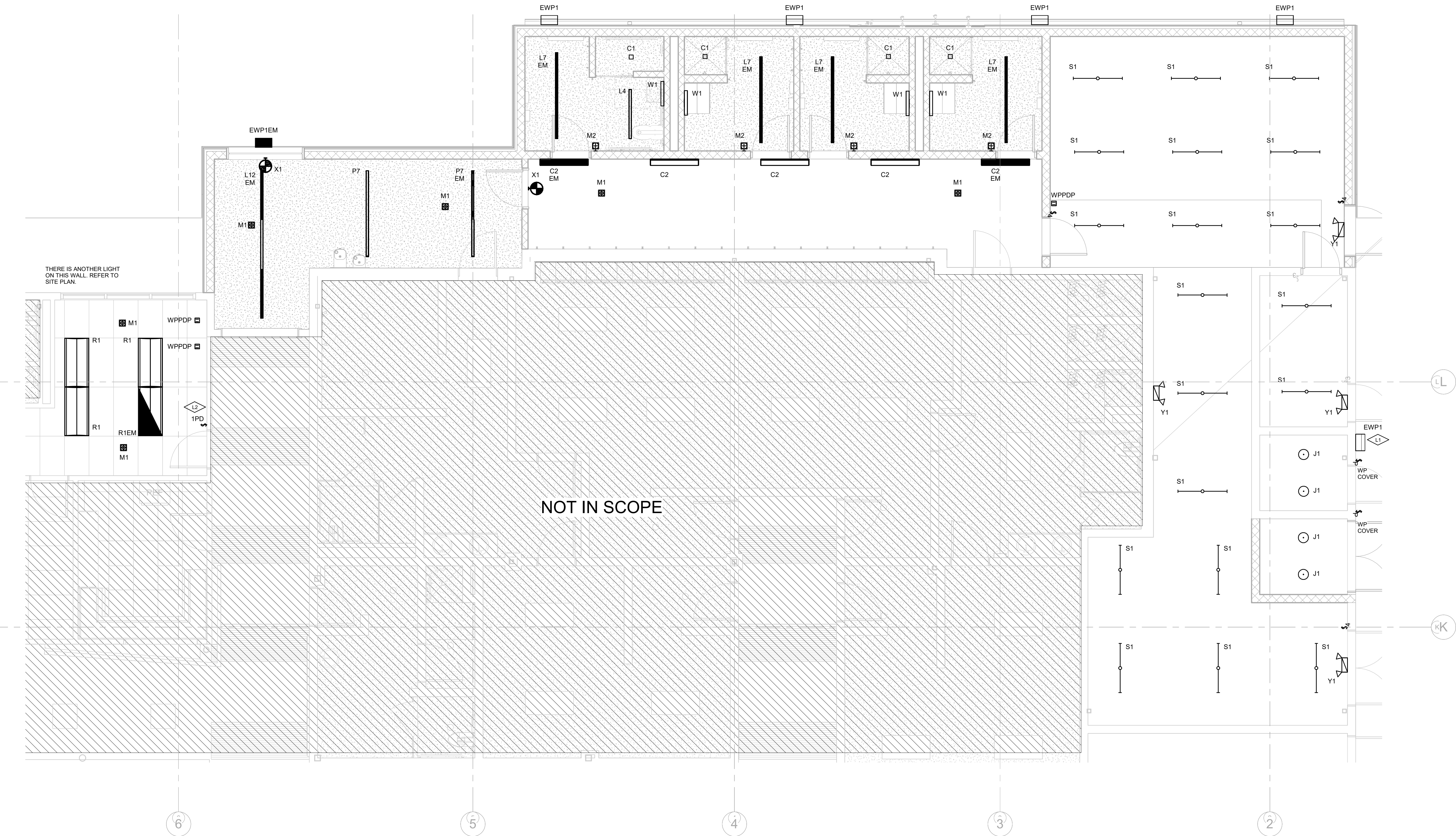
SCALE: 1/4" = 1'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: DETAIL ELECTRICAL PLANS

SHEET #

E102

Autodesk Docs://23079_Eagle Pool_R24/23079_Mountain Recreation Eagle Pool_ELEC_R24.rvt

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3/21/2024 4:37:15 PM



1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
L1	NEW LIGHT REPLACES EXISTING LIGHT ONE FOR ONE. CONNECT TO EXISTING CIRCUIT AT THIS LOCATION.
L2	SWITCH WILL BE POWERED BY EXISTING 277V CIRCUIT AT THIS LOCATION.



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ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: FIRST FLOOR LIGHTING PLAN

SHEET #:

E111



*innovative
electrical
systems, inc.*

8093 West 11th Lane
Lakewood, CO 80227
303-407-7181
kly@iesystems-inc.com

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SCALE: 1/4" = 1'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: FIRST FLOOR LIGHTING
 CONTROL PLAN

SHEET #

E121



KEYNOTE LEGEND	
Key Value	Keynote Text
L5	REFER TO DETAIL 2 SHEET E520 FOR SCHEMATIC DIAGRAM OF LIGHTING CONTROL IN THIS ROOM.
L6	WALLPACKS ARE CONNECTED TO EXISTING EXTERIOR LIGHTING CIRCUIT. CONTROL WILL BE WIRELESS. REFER TO DETAIL 1 SHEET E520.
L7	REUSE EXISTING CIRCUIT FOR EXISTING CHEMICAL, POOL EQUIPMENT AND POOL STORAGE ROOM LIGHTING FOR NEW LIGHTING.

KEYNOTE LEGEND	
Key Value	Keynote Text
L8	CONNECT NEW LOCKER ROOM LIGHTING TO EXISTING CIRCUIT.
L9	REFER TO DETAIL 3 SHEET E520 FOR SCHEMATIC DIAGRAM OF LIGHTING CONTROL IN HALL. LIGHTS WILL BE AUTO ON AND AUTO OFF BY MOTION SENSORS.



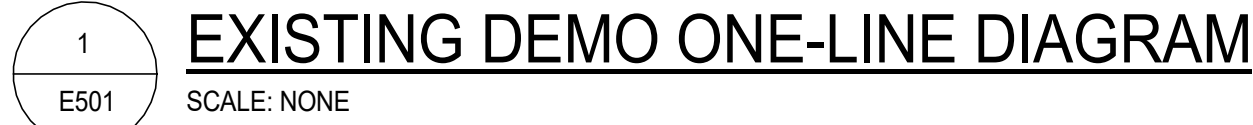
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systems, inc.*

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Lakewood, CO 80227
303-807-7181
kly@iesystems-inc.com

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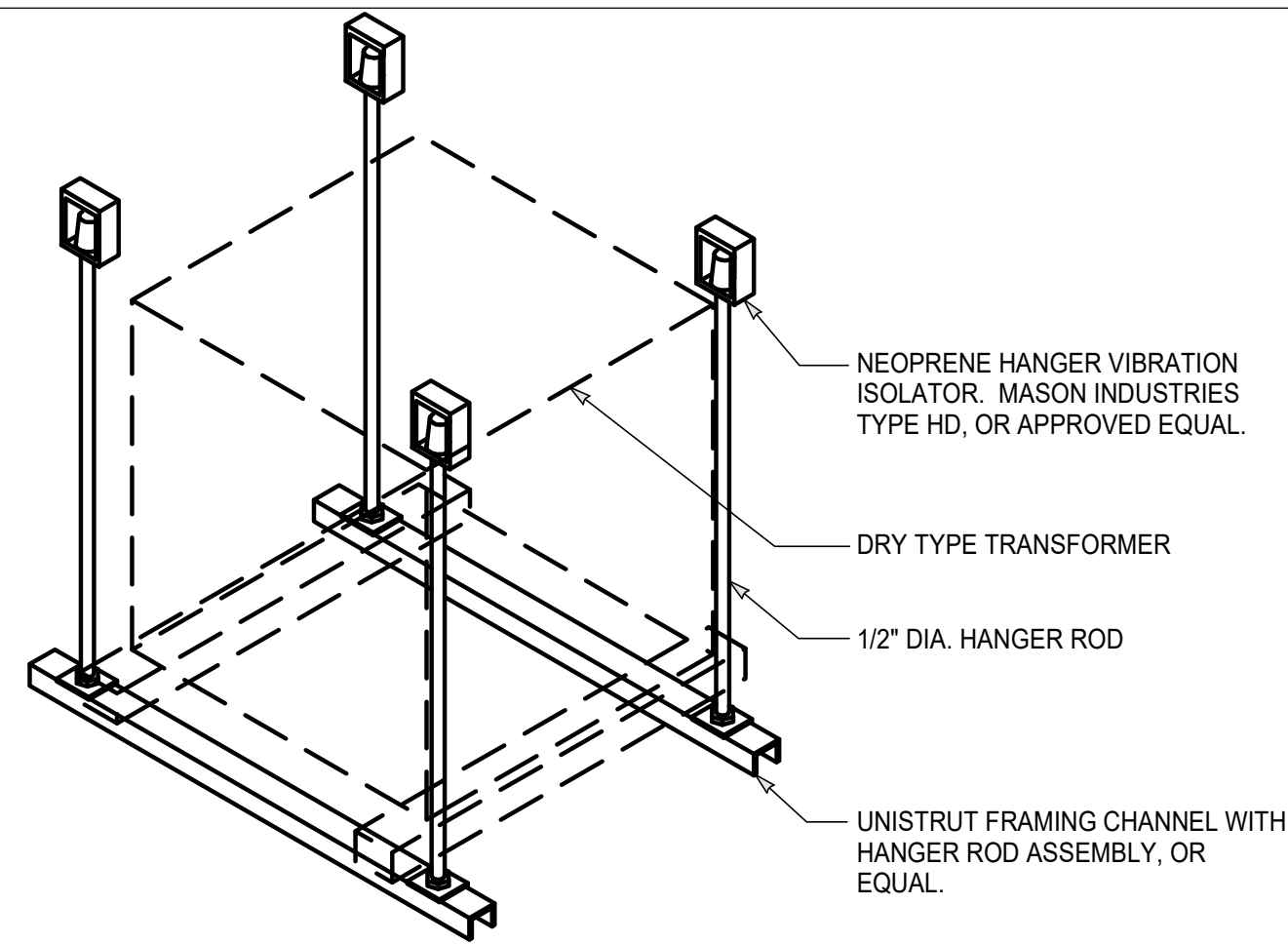
SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL ONE-LINE
DIAGRAM

E501



- | FEEDER SCHEDULE | | | |
|--------------------------------|--------------------|--------|------|
| FEEDER NO. | FEEDER CONDUCTORS | PHASE | AMPS |
| SERVICE ENTRANCE FEEDERS | | | |
| S1 | 4/4-350KCMIL, 3'C | 3-4W | 1240 |
| EQUIPMENT FEEDERS | | | |
| E12 | 4-3/0, 1#6G, 2"C | 3-4W+G | 200 |
| E23 | 3#4, 1#6G, 1-1/4"C | 3-3W+G | 70 |
| GROUNDING ELECTRODE CONDUCTORS | | | |
| G2 | 1#6, 1/2"C | G | |
| TRANSFORMER SECONDARY FEEDER | | | |
| T1 | 4-1/0, 1#6G, 2"C | 3-4W+G | 150 |
- NOTE:
- ALL CONDUCTORS ARE SINGLE CONDUCTOR, THWN, COPPER UNLESS NOTED OTHERWISE. AMPERAGE BASED ON NEC TABLE 310.16.
 - ALL CONDUTITS ARE EMT UNLESS NOTED OTHERWISE. FILL RATIOS BASED ON NEC ANNEX C, TABLE C1.

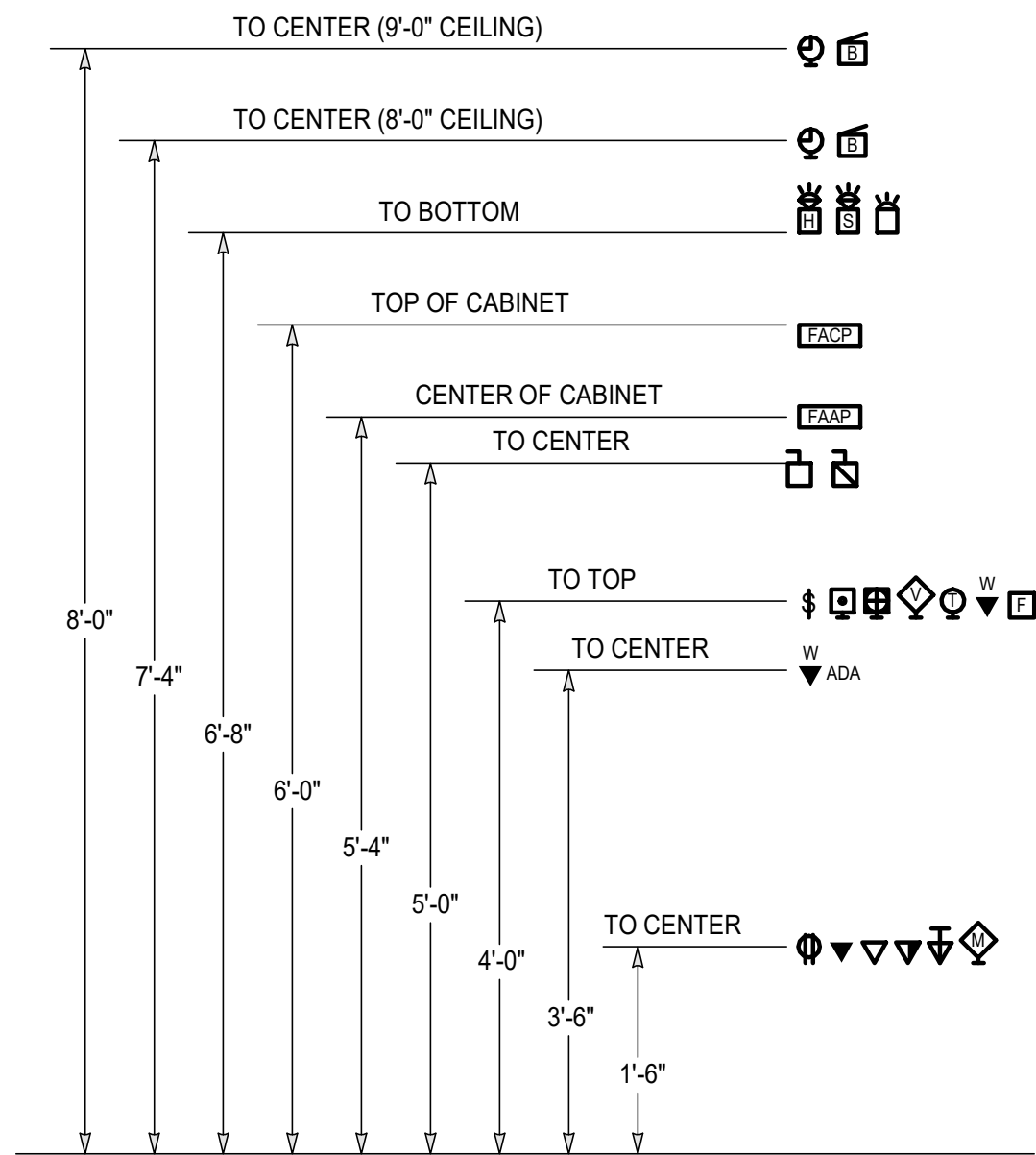




1
E510
SUSPENDED TRANSFORMER DETAIL
NO SCALE

NOTES:

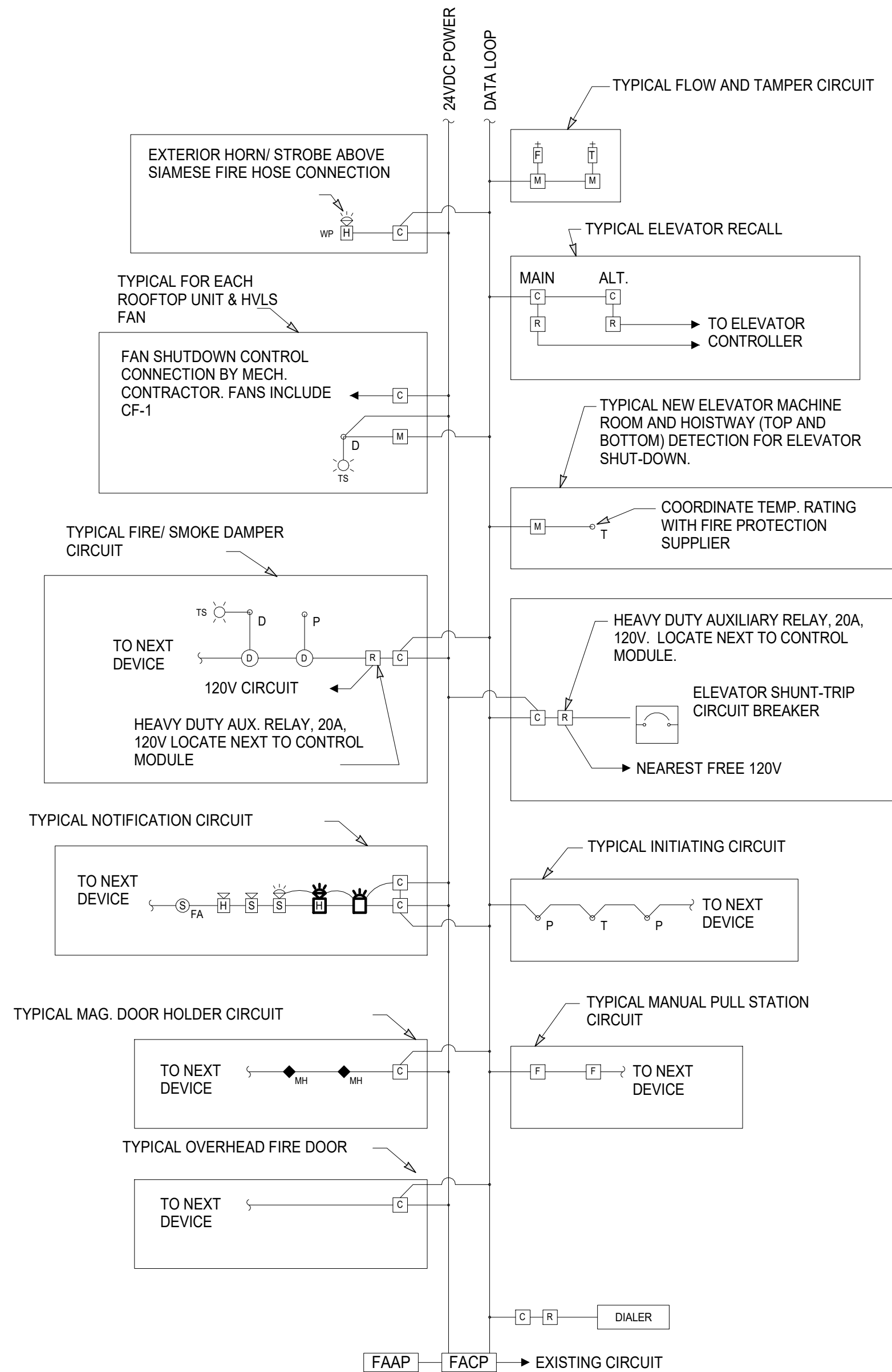
- ALL TRANSFORMERS ARE FLOOR MOUNTED UNLESS NOTED OTHERWISE ON PLANS. THIS DETAIL SHALL ONLY BE USED WHEN IT IS REFERENCED FROM THE PLANS.
- FASTEN VIBRATION HANGER RIGIDLY TO STRUCTURE ABOVE. SIZE TO ACCOMMODATE TRANSFORMER WEIGHT. BOLT TRANSFORMER TO STRUT.
- USE FLEXIBLE METAL CONDUIT TO CONNECT PRIMARY AND SECONDARY FEEDERS TO TRANSFORMER HOUSING.
- MOUNT BOTTOM OF TRANSFORMER SUPPORTS AS HIGH AS POSSIBLE, BUT NO LOWER THAN 6'-8" AFF.
- MAINTAIN MANUFACTURER'S RECOMMENDED VENTILATION REQUIREMENTS.



2
E510
TYPICAL MOUNTING HEIGHTS
SCALE: NONE

NOTES:

- MOUNT ELECTRICAL DEVICES AT HEIGHTS SHOWN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- VERIFY DEVICE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.



3
E510
FIRE ALARM SYSTEM SCHEMATIC
SCALE: NONE

FIRE ALARM GENERAL NOTES

- THERE IS AN EXISTING FIRE ALARM SYSTEM THAT SHALL BE REUSED. CONNECT NEW DEVICES TO EXISTING SYSTEM.
- PROVIDE WIRING AS DIRECTED BY FIRE ALARM SYSTEM MANUFACTURER. CABLE ONLY NEEDS TO BE IN 3/4" CONDUIT WHEN ABOVE INACCESSIBLE CEILINGS. CABLE CAN BE RUN OPEN ABOVE ACCESSIBLE CEILINGS AND OPEN AREAS. ONLY AREA EXPOSED CABLE IS NOT ALLOWED IS THE LOBBY.
- INSTALL CONTROL MODULES WITHIN 3'-0" OF DEVICE OR EQUIPMENT BEING CONTROLLED.
- PROVIDE REMOTE POWER SUPPLIES AS REQUIRED. MOUNT IN ELECTRICAL ROOMS OR IDF ROOMS. PROVIDE 20% SPARE CAPACITY ON ALL INITIATION AND NOTIFICATION CIRCUITS.
- COORDINATE WITH FIRE SPRINKLER CONTRACTOR FOR QUANTITIES AND LOCATIONS OF ALL FLOW AND TAMPER SWITCHES.
- ALL DEVICES INSTALLED IN DAMP, WET OR EXTERIOR LOCATIONS SHALL BE FURNISHED WITH WP HOUSINGS.
- THE ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INDICATE A SUPERVISORY CONDITION AT THE FIRE ALARM CONTROL PANEL, NOT A GENERAL BUILDING ALARM.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE APPROPRIATE STAMP AND SEAL OF A REGISTERED ENGINEER ON THE FIRE ALARM SHOP DRAWINGS. THE ENGINEER OF RECORD FOR THESE DOCUMENTS SHALL NOT BE RESPONSIBLE FOR STAMPING AND SEALING THE FIRE ALARM SHOP DRAWINGS.
- THE ELECTRICAL CONTRACTOR AND THEIR FIRE ALARM VENDOR/ SUB-CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM THAT MEETS ALL APPROPRIATE BUILDING AND LIFE SAFETY CODES. THE FIRE ALARM DEVICES SHOWN ON THESE DOCUMENTS ARE INDICATED TO DEFINE SCOPE OF WORK ONLY. ALL REQUIRED DEVICES MAY NOT BE SHOWN.
- THE INTENT OF THIS DIAGRAM IS TO SHOW NEW CONNECTIONS. EXISTING CONNECTIONS SHALL REMAIN AS IS, OR IF A NEW PANEL IS REQUIRED CONNECTED TO THE NEW PANEL.



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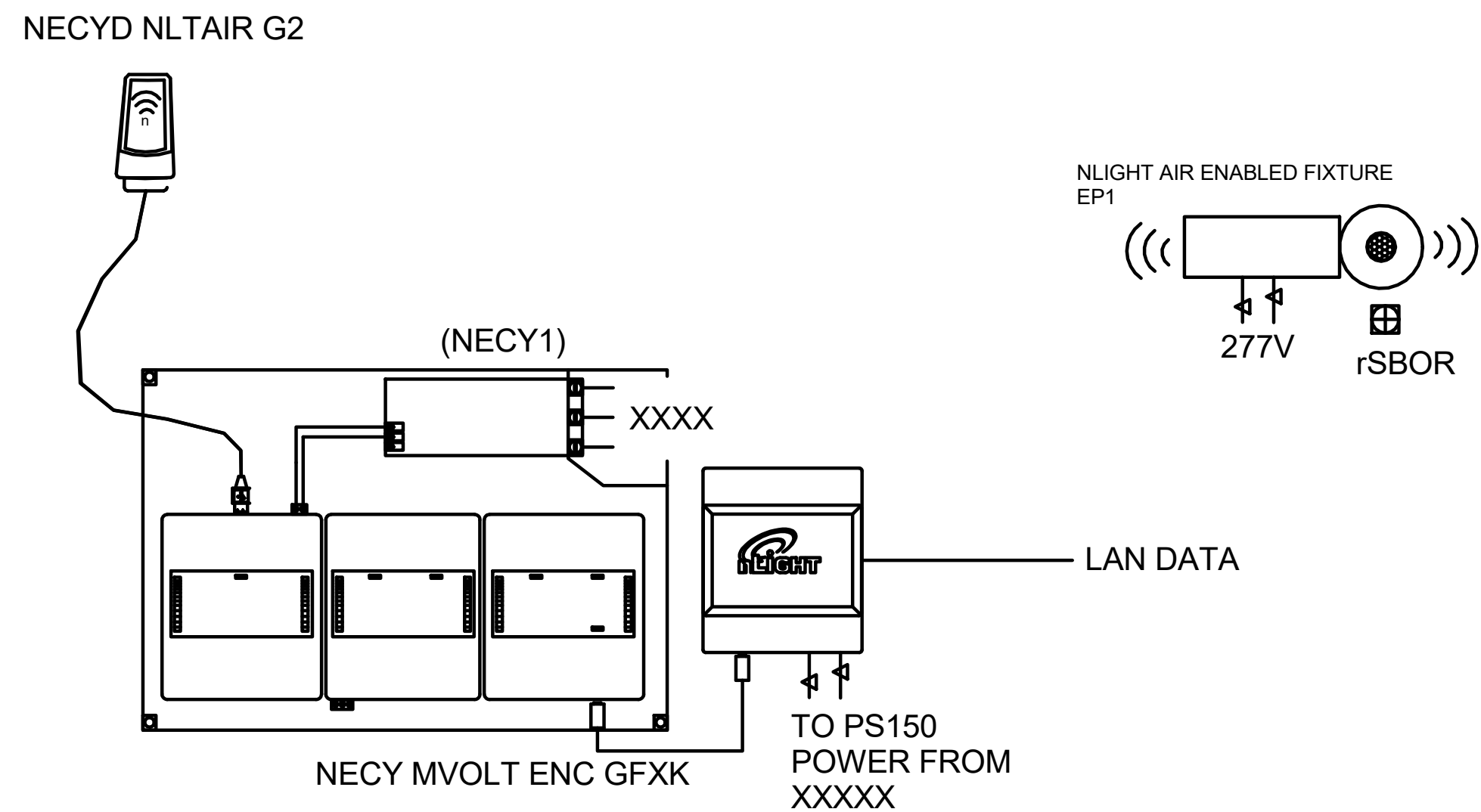
ISSUE DATE: 3/22/24

PROJECT #: 23079

TITLE: ELECTRICAL DETAILS

SHEET #:

E510

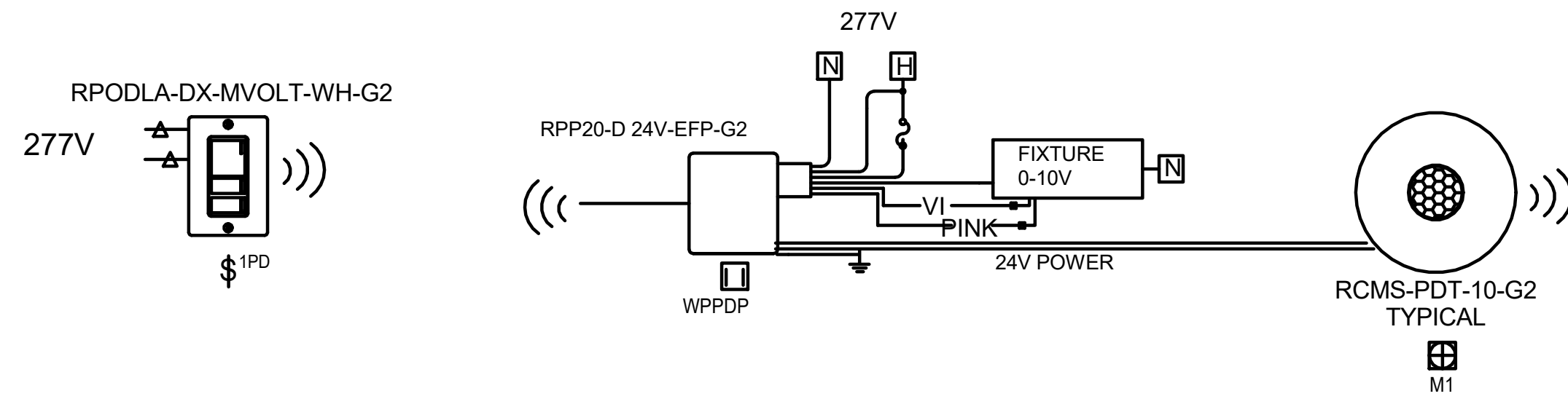


EXTERIOR LIGHT WIRELESS CONTROL

SCALE: NONE

NOTES:

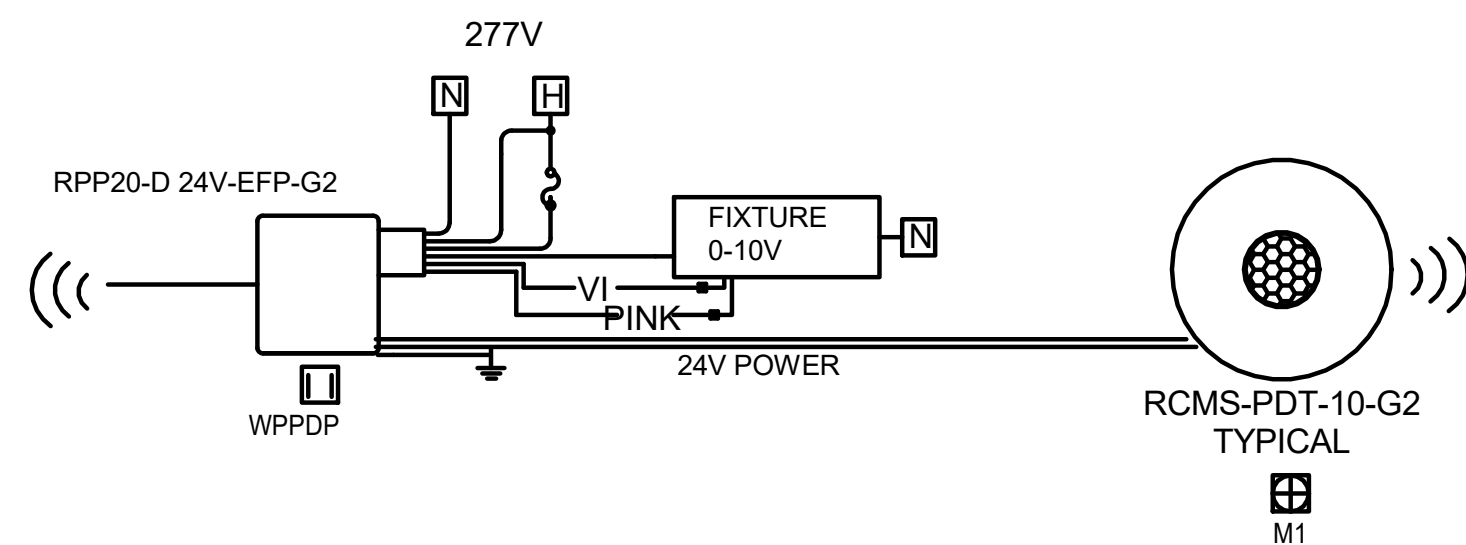
- NOTES:
1. MOUNT WIRELESS ANTENNA ON THE NORTH EXTERIOR WALL OF THE ELECTRICAL ROOM.
 2. PROGRAM WITH OWNER. EXTERIOR LIGHTS SHALL BE TIMECLOCK ON/OFF WITH A PHOTOCELL OVERRIDE.
 3. USE LAN LINE TO CONNECT CONTROL SYSTEM INTO BUILDINGS NETWORK. PROGRAM WITH AURORA IT SO THAT OWNER CAN GAIN ACCESS TO CONTROL EXTERIOR LIGHTS FROM A BUILDING COMPUTER OR REMOTELY.



LIGHTING CONTROL SCHEMATIC MOTION AND DIMMER SWITCH

N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 20 MINUTE TIME OUT.



LIGHITNG CONTROL SCHEMATIC MOTION ON/OFF

N.T.S.

1. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO PLANS FOR QUANTITY OF DEVICES.
2. MOTION SENSORS SHALL BE SET TO VACANCY MODE. 5 MINUTE DIM TO 50%. 20 MINUTE OFF..



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SCALE:

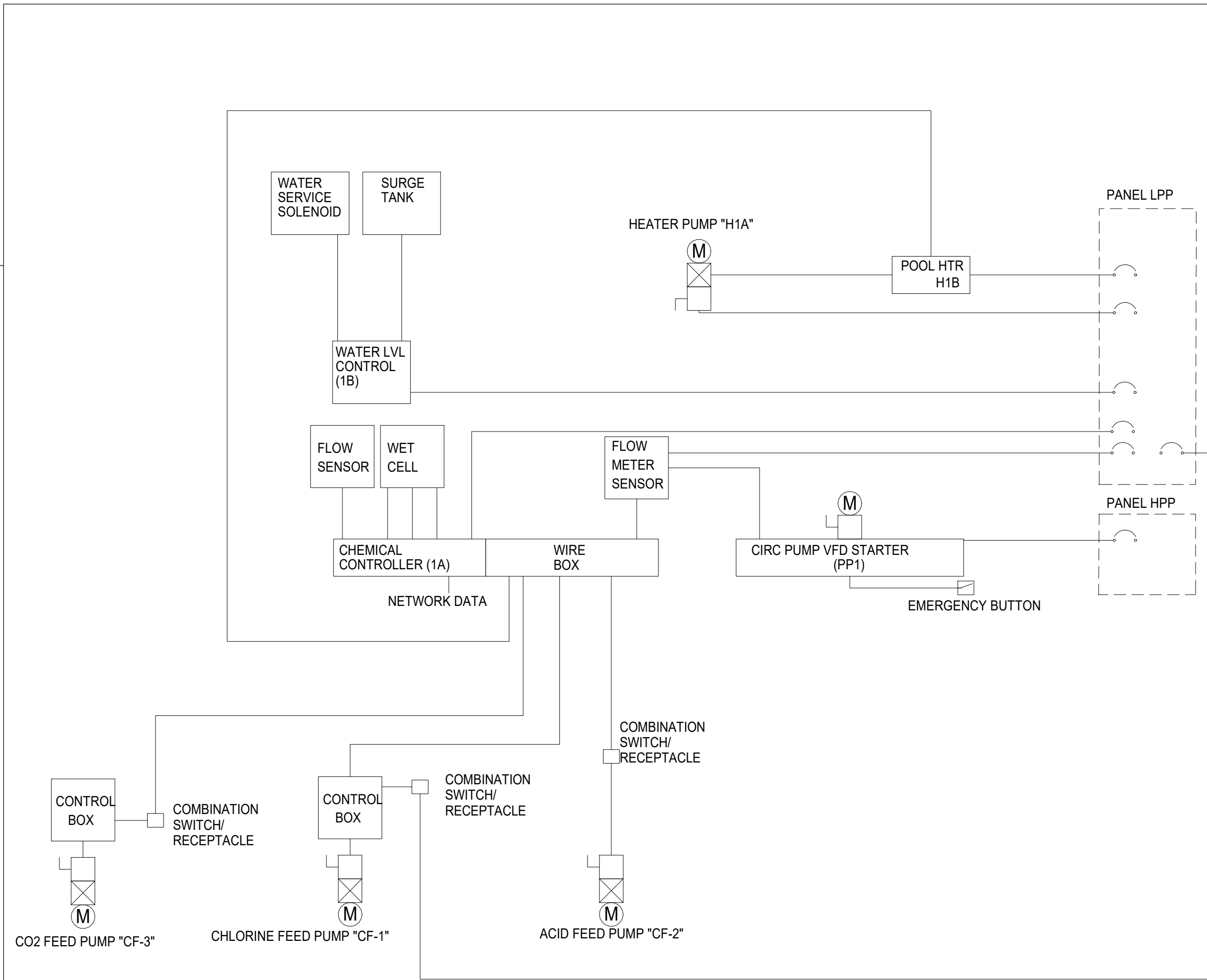
ISSUE DATE: 3/22/24

PROJECT #: 23079

TITLE: ELECTRICAL LIGHTING
DETAILS

SHEET #:

E520



1
E530

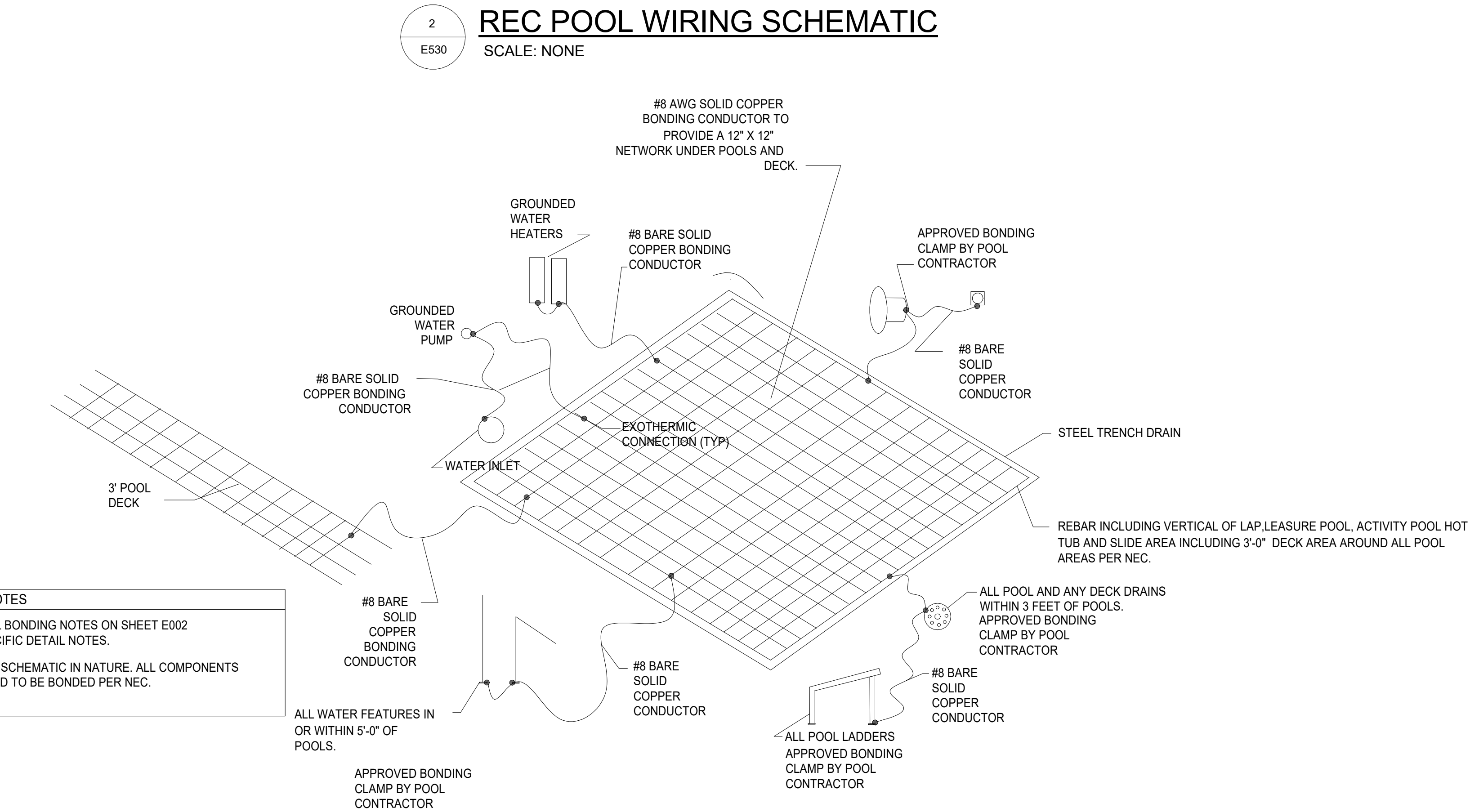
LAP POOL WIRING SCHEMATIC
SCALE: NONE

POOL SCHEMATIC NOTES:

1. ITEMS IN LIGHT LINE WEIGHT ARE PROVIDED BY OTHERS. ITEMS IN DARK LINE WEIGHT ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
2. CONDUCTOR SIZES AND CONDUITS FOR POWER TO PUMPS, SIZE OF DISCONNECTS AND SIZE OF OVERCURRENT PROTECTION FOR MOTORS IS PER THE POOL EQUIPMENT SCHEDULE.
3. POOL CONTRACTOR TO FURNISH VFDs. ELECTRICAL CONTRACTOR SHALL MOUNT STARTER/DISCONNECTS ON UNISTRUT RACK ABOVE PUMP PIT PUMPS AS SHOWN ON PLANS AND CONNECT.
4. LOW VOLTAGE CABLES ARE PROVIDED BY POOL CONTRACTOR. THESE ARE SHOWN IN LIGHT LINEWEIGHT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR LOW VOLTAGE CABLE. CONDUITS TO BE 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE POOL CONTRACTOR, COORDINATE WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.
5. ELECTRICAL CONTRACTOR IS PROVIDING 120V POWER AND UP. ALL ELECTRICAL CONTACTS, DISCONNECTS AND OVERCURRENT PROTECTION IS BY ELECTRICAL CONTRACTOR PER THE PLANS.
6. COORDINATE CONTACTS AND INTERLOCKS WITH POOL CONTRACTOR SO THAT ENOUGH ARE PROVIDED FOR THEIR SEQUENCE OF CONTROLS.
7. SHUTTING OFF THE FILTER PUMP SHALL SHUTOFF ALL OTHER POOL EQUIPMENT, INCLUDING HEATERS AND CHEMICAL FEEDS.
8. PROVIDE INTERLOCKING CONTACTS IN WIRING BOX. WHEN CIRCULATION PUMP IS OFF IT SHALL TURN OFF ALL CHEMICAL AND ACID FEEDS, HEATERS, AND FEATURE PUMPS ASSOCIATED WITH THE CIRCULATION PUMP POOL.

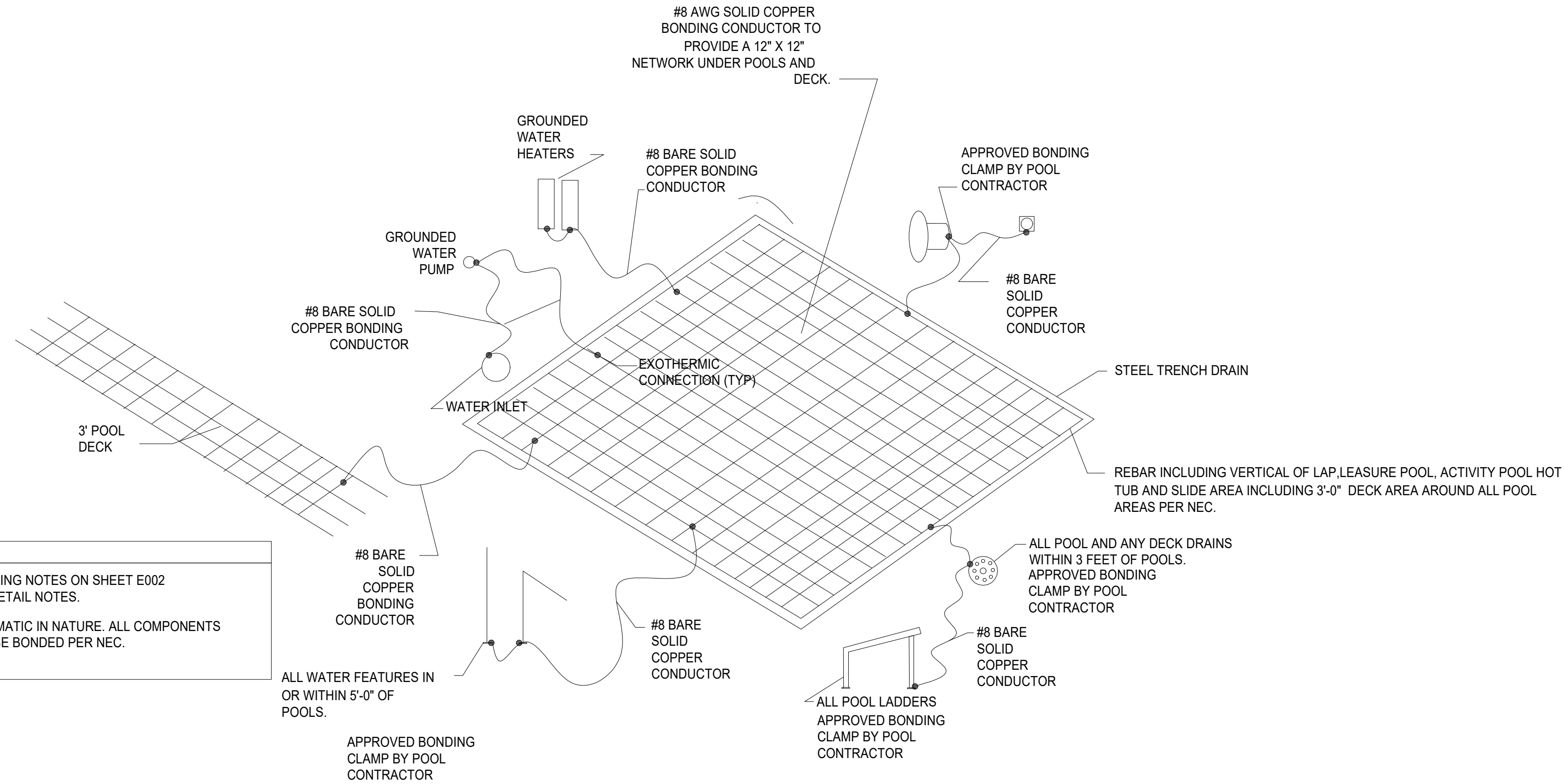
GENERAL NOTES

1. SEE POOL BONDING NOTES ON SHEET E002 FOR SPECIFIC DETAIL NOTES.
2. DETAIL IS SCHEMATIC IN NATURE. ALL COMPONENTS THAT NEED TO BE BONDED PER NEC.



2
E530

REC POOL WIRING SCHEMATIC
SCALE: NONE



3
E530

TYPICAL POOL EQUIPOTENTIAL GRID SCHEMATIC
SCALE: NONE



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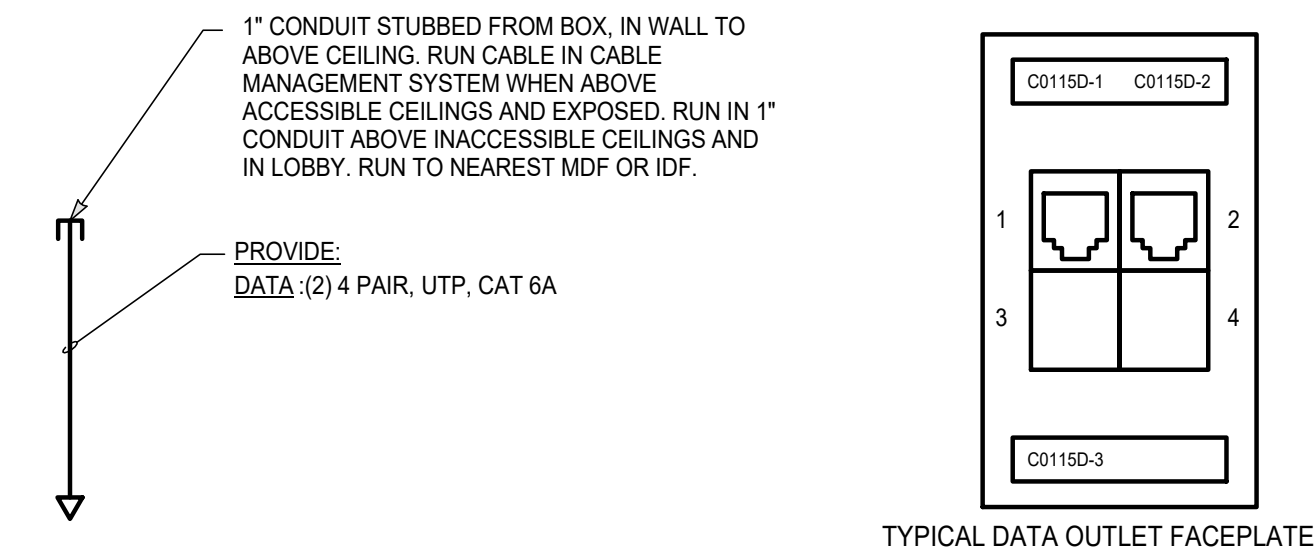
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ISSUE DATE: 3/22/24
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TITLE: ELECTRICAL POOL DETAILS

SHEET #:

E530



THIS APPLIES FOR ALL SYMBOLS
ON THE SYSTEMS PLANS THAT
LOOK LIKE THIS.

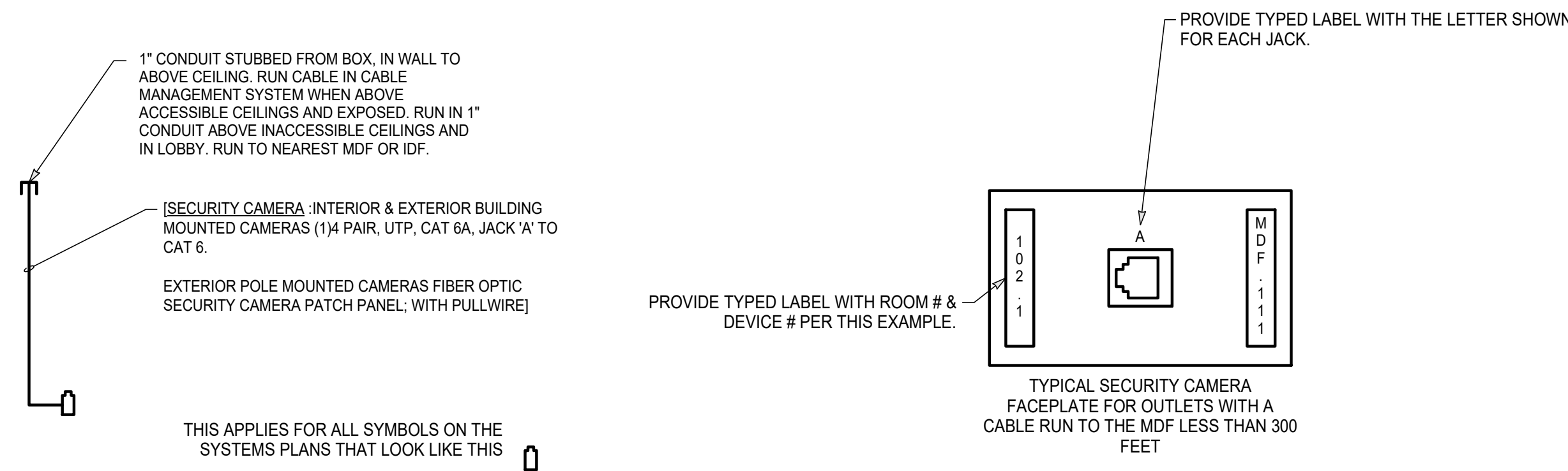


DATA OUTLET DETAIL

NO SCALE

NOTES:

1. REFER TO THE DIVISION 27 SPECIFICATION SECTIONS FOR REQUIRED EQUIPMENT AND SPECIFICATIONS.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.

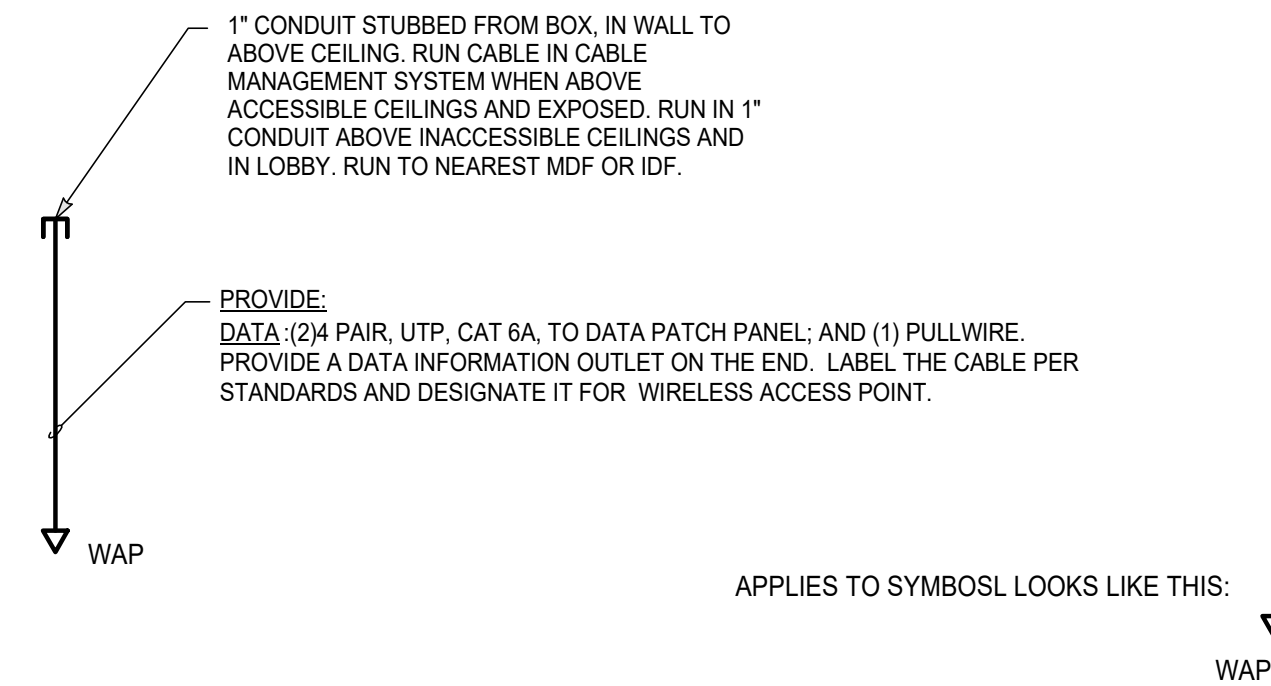


SECURITY CAMERA OUTLET

NO SCALE

NOTE:

1. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON PLENUM CABLE, PROVIDE YELLOW CABLE JACKET FOR SECURITY.
2. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY. TERMINATE SECURITY CABLE ON DEDICATED SECURITY PATCH PANELS.
3. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
4. DETERMINE THE ACTUAL RUN LENGTH OF THE CONDUIT FOR EACH OUTLET FROM THE ELECTRICAL CONTRACTOR AND PROVIDE THE PROPER EQUIPMENT.
5. ALL CAMERAS SHALL BE IP, NO ANALOG.
6. COORDINATE CAMERA MOUNTING HEIGHTS AND LOCATIONS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN. LOCATIONS ON PLANS ARE FOR PRICING PURPOSES ONLY. EXACT LOCATIONS SHALL BE BY SECURITY CONTRACTOR.
7. MOUNT EXTERIOR CAMERAS AT LEAST 10' ABOVE GRADE. IF ON A POLE MOUNT AS HIGH ON THE POLE AS POSSIBLE. SECURITY CONTRACTOR SHALL FIELD VERIFY LOCATIONS.
8. INTERIOR CAMERAS SHALL BE CEILING/SURFACE MOUNT.
9. CAMERAS OVER 300' SHALL BE FIBER OPTIC NOT CAT6. EXTERIOR POLE MOUNTED CAMERAS SHALL BE FIBER OPTIC REGARDLESS OF DISTANCE.



WAP DETAIL

NO SCALE

NOTES

1. PROVIDE WIFI ROUTER. DEVICE SHALL BE CISCO MERAKI.
2. THE CABLE JACKET SHALL COMPLY WITH ARTICLE 800 OF THE NEC FOR USE AS A PLENUM OR NON-PLENUM CABLE.
3. ROUTE CABLING FROM DEVICE TO APPROPRIATE DISTRIBUTION FACILITY.
4. PROVIDE PLASTIC BUSHING ON END OF STUBBED OUT CONDUIT.
5. PROVIDE 4" OCTAGONAL JUNCTION BOXES FOR CEILING MOUNTED WIFI DEVICES.
6. PROVIDE ALL MOUNTING HARDWARE FOR WIRELESS PORT.
7. TERMINATE ALL WIFI CABLING IN DEDICATED PATCH PANELS.

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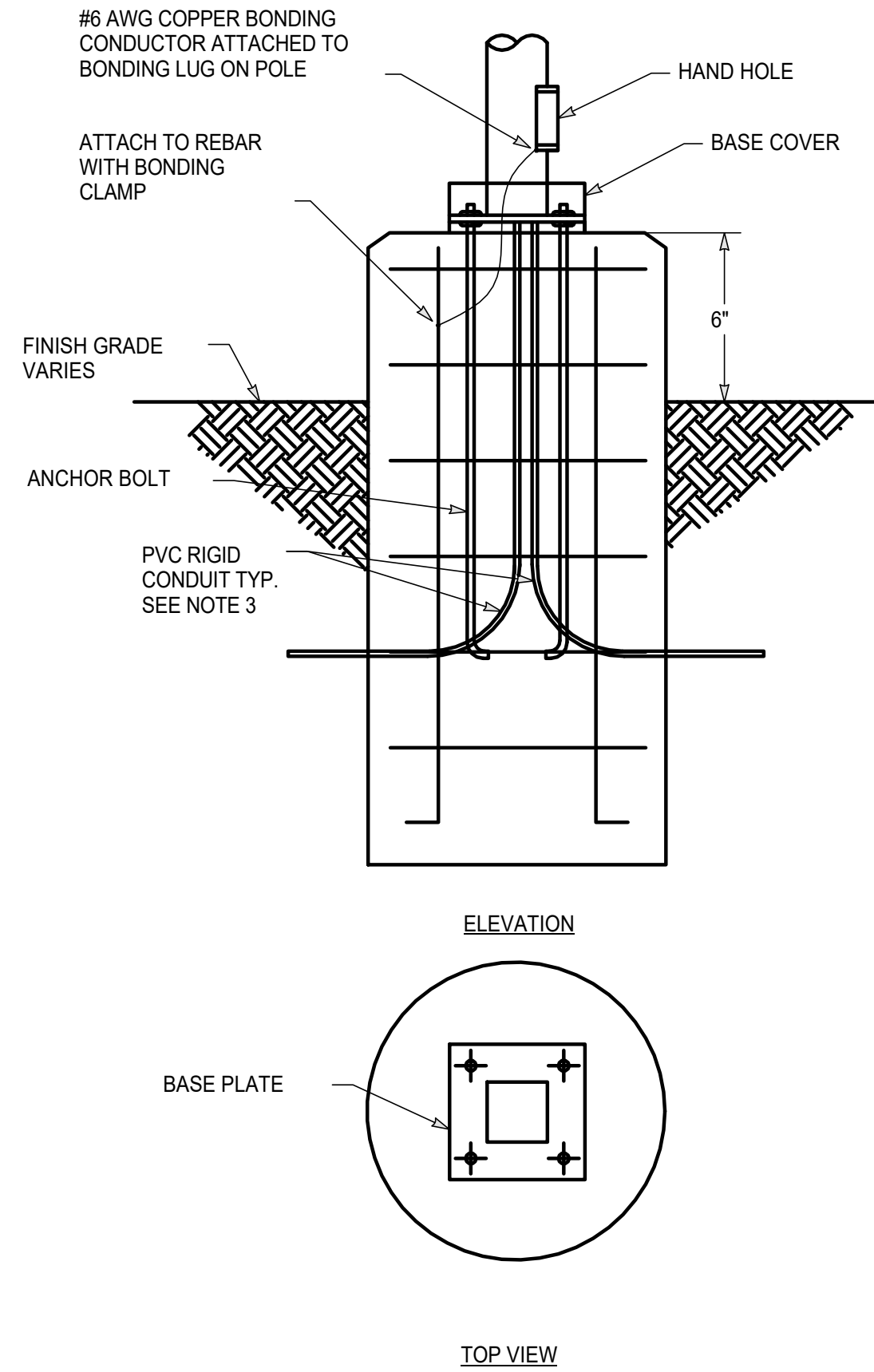
ISSUE DATE: **3/22/24**

PROJECT #: **23079**

TITLE: **LOW VOLTAGE DETAILS**

SHEET #:

E540



POLE BASE DETAIL

SCALE: NONE

- NOTE:
- COORDINATE DIMENSIONS, AND STRUCTURAL REQUIREMENTS WITH STRUCTURAL PLAN.
 - PROVIDE 6" POLE BASE FOR TYPE EP1 AROUND POOL DECK.
 - PROVIDE A CONDUIT FOR EACH SYSTEM IN THE POLE: (1) 1/2" PVC TO ALL FIXTURES FOR 277V LIGHTING, (1) 1/2" CONDUIT TO EACH POLE FOR 120V RECEPTACLE AND CAMERA POWER CIRCUIT, (1) 1" CONDUIT TO POLES WITH A CAMERA FOR CAMERA FIBER OPTIC CABLE.

EXTERIOR LUMINAIRE SCHEDULE									
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP		VOLTS	MOUNTING	NOTES	MAX VA
				QTY	TYPE				
EP1	LED, EXTERIOR ROUND PUCK STYLE AREA LIGHT, MOUNT TO A 20' POLE	LITHONIA	RAD1LED-P3-27K-ASY-MVOLT-RPA-NLTAIR2-CUSTOM COLOR	1	LED	277	POLE, 20' ROUND STRAIGHT STEEL WITH PLANTER ARMS	PROVIDE WITH rSBOR MOTION SENSOR. COLOR TO MATCH EXISTING POLES IN PARKING LOT. PROVIDE AT 4' AFF LOCATION FOR AN DUPLEX RECEPTACLE TO BE MOUNTED ON THE POLE.	54
EWP1	LED, EXTERIOR WALL PACK	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLTAIR2 PIR-DBLXD	1	LED	277	WALL, +8' AFF		25
EWP1EM	LED, EXTERIOR WALL PACK, EM BATTERY	LITHONIA	WST LED-P2-27K-VF-MVOLT-NLTAIR2 PIR-E20WC-DBLXD	1	LED	277	WALL, +8' AFF		25



Radean Arm Mount LED Area Luminaire

Specifications

- EPA: 0.75 ft² (0.08 m²)
- Length: L1 34" (86.1cm), L2 30" (76.2cm)
- Width: 34" (86.1cm)
- Height: 4" (10.2cm)
- Weight (max): 25 lbs (11.35kg)

Introduction

The RADEAN arm mount luminaire is the perfect choice for pedestrian applications where daytime aesthetics and visual comfort are needed. Adding architectural flair to any space, the RADEAN's low-profile shape and smooth curves blend in while adding a touch of elegance.

Perfect for campuses, parks, pedestrian malls, courtyards and pathways, the RADEAN arm mount is the Architect's choice to provide beautiful aesthetics both day and night.

EXAMPLE: RAD1 LED P3 30K SYM MVOLT RPA PE DNAXD									
Model	Power	Beam Angle	Mounting	Height	Weight	Notes	Model	Power	Beam Angle
RAD1 LED	P1 1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT	277V	5W	30mm x 30mm x 11"
	P2 3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY	30mm x 30mm x 11"	10W	30mm x 30mm x 11"
	P3 7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN	30mm x 30mm x 11"	15W	30mm x 30mm x 11"
	P4 12,000 Lumens	40K	4000K					20W	30mm x 30mm x 11"
	P5 16,000 Lumens	50K	5000K					25W	30mm x 30mm x 11"

Shipped installed

Model	Power	Beam Angle	Mounting	Height	Weight	Notes
REARL	1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT
FE	3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY
FAO	7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN

Accessories

Model	Power	Beam Angle	Mounting	Height	Weight	Notes
REARL	1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT
FE	3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY
FAO	7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN

FIXTURE TYPE EP1



WST LED Architectural Wall Sconce

Specifications

- Height: 5-1/2" (14.1cm)
- Width: 17" (43.0cm)
- Depth: 10-3/16" (26.8cm)
- Weight: 20 lbs (9.1kg)

Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-polluted light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a B-level motion sensor option. With so many standard and optional features, three lumen packages, and high IPW, the WST LED is your "go-to" luminaire for most any application.

EXAMPLE: WST LED P1 40K VF MVOLT DBLTXD									
Model	Power	Beam Angle	Mounting	Height	Weight	Notes	Model	Power	Beam Angle
WST LED	P1 1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT	277V	5W	30mm x 30mm x 11"
	P2 3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY	30mm x 30mm x 11"	10W	30mm x 30mm x 11"
	P3 7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN	30mm x 30mm x 11"	15W	30mm x 30mm x 11"

Shipped installed

Model	Power	Beam Angle	Mounting	Height	Weight	Notes
REARL	1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT
FE	3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY
FAO	7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN

Accessories

Model	Power	Beam Angle	Mounting	Height	Weight	Notes
REARL	1,000 Lumens	27K	2700K	SYM	30mm x 30mm x 11"	MVOLT
FE	3,000 Lumens	30K	3000K	ASY	30mm x 30mm x 11"	ASY
FAO	7,000 Lumens	35K	3500K	PATN	30mm x 30mm x 11"	PATN

FIXTURE TYPES EWP1, EWP1 EM



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

NO. DATE: TITLE/PURPOSE:
1 03/22/2024 SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL EXTERIOR SITE
DETAILS & LUMINAIRE
SCHEDULE

SHEET #:
E541

MECHANICAL SCHEDULE											
KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND.	DISCONNECT	CIRCUIT BREAKER	CIRCUIT PANEL NUMBER		NOTES
EF-10	CHEMICAL ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-11	ACID ROOM EXHAUST FAN	66	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	15	
EF-12	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-13	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-14	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
EF-15	CHANGING ROOM FAN	14	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	16	
FCU-7	FAN COIL UNIT POOOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	17	
FCU-8	FAN COIL UNIT POOOL MECH ROM	656	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P, GFCI	LPP	14	
GWH-1	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	18	
GWH-2	GAS FIRED WATER HEATER CONTROL CIRCUIT	1500	120	1	2#12,1#12G	1/2"	--	20A/1P	LPP	19	
PP-1	WATER HEATER CIRC PUMP, 1/3HP	864	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P	LPP	21	
UH-3	EXISTING RELOCATED UNIT HEATER	864	120	1	2#12,1#12G	1/2"	THERMAL OL SWITCH	20A/1P			RECONNECT TO THE RELOCATED EXITING CIRCUIT.

EQUIPMENT SCHEDULE									
KEY	EQUIPMENT	LOAD	VOLTS	PH	BRANCH CIRCUIT CONDUCTORS	COND .	DISCONNECT	CIRCUIT BREAKER	SCHD- NOTES
HAND	HAND DRYER	950	120	1	2#12,1#12G	1/2"	PROVIDED WITH UNIT	20A/1P, GFCI	REFER TO MANUFACTIRERS INSTALLATION INSTRUCITONS PRIOR TO ROUGH-IN FOR ELECTRICAL CONNECTION
IRG	IRRIGATION CONTROLLER	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI	20A/1P	COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.

POOL EQUIPMENT SCHEDULE												
KEY	EQUIPMENT	LOAD	VOLTS	PH	CONDUCTORS	COND.	STARTER/DISCONNECT		CIRCUIT BREAKER	CIRCUIT		NOTES
							DISCONNECT	STARTER		PANEL	NUMBER	
1A	LAP POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	4	
1F	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	31	
2A	REC POOL CHEMICAL CONTROLLER	1800	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	6	
2G	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	31	
CF1	LAP POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED			LPP	30	CIRCUIT SHOWN IS FOR THE CONTROL BOX. REFER TO DETAIL 3 SHEET AQ502
CF2	LAP POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER
CF3	LAP POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM LAP POOL CHEMICAL CONTROLLER
CF4	REC POOL CHLORINE FEED PUMP	500	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		20A/1P	LPP	28	CIRCUIT SHOWN IS FOR THE CONTROL BOX. REFER TO DETAIL 3 SHEET AQ502
CF5	REC POOL ACID FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER
CF6	REC POOL CO2 FEED PUMP	50	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI, SWITCHED		PROVIDED IN CHEMICAL CONTROLLER			POWER FROM REC POOL CHEMICAL CONTROLLER
H1A	LAP POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	9	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H1B	LAP POOL HEATER	1920	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	11	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2A	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	8	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2B	REC POOL HEATER	1920	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	12	INTERLOCK WITH FEATURE PUMP
H2C	REC POOL HEATER	2568	120	1	2#10,1#10G	1/2"	--		30A/1P, GFCI	LPP	10	PROVIDE VFD RATED CABLE FOR ANY WIRING BETWEEN VFDS AND PUMPS PROVIDED WITH HEATERS. INTERLOCK WITH FEATURE PUMP
H2D	REC POOL HEATER	1920	120	1	2#12,1#12G	1/2"	--		20A/1P, GFCI	LPP	13	INTERLOCK WITH FEATURE PUMP
L1	LAP POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
L2	REC POOL WATER LEVEL CONTROLLER	120	120	1	2#12,1#12G	1/2"	NEMA 5-20R, GFCI		20A/1P	LPP	7	
PP1	LAP POOL RECIRC, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	1,3,5	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP
PP2	OPEN FLUME WATER SLIDE, 20HP	22447	480	3	3#8,1#10G	3/4"	60A/3P	VFD	50A/3P, GFCI	HPP	8,10,12	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP3	CLOSED FLUME WATER SLIDE, 10HP	11639	480	3	3#10,1#10G	3/4"	30A/3P	VFD	30A/3P, GFCI	HPP	7,9,11	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP4	CURRENT CHANNEL, 15HP	17459	480	3	3#10,1#10G	3/4"	60A/3P	VFD	40A/3P, GFCI	HPP	13,15,17	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP5	REC RECIRC PUMP, 25HP	28267	480	3	3#6,1#8G	1"	100A/3P	VFD	70A/3P	HPP	2,4,6	PROVIDE VFD RATED CABLE BETWEEN VFD AND PUMP. CONNECT TO EMERGENCY STOP
PP6	SPRAY FEATURE PUMP, 7.5HP	9145	480	3	3#12,1#12G	3/4"	30A/3P	VFD	20A/3P, GFCI	HPP	14,16,18	PROVIDE VFD RATED CABLE BETWEEN VFD AND MOTOR. CONNECT TO EMERGENCY STOP
UV-1	UV SYSTEM CONTROL PANEL, 4.8A	576	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI	LPP	3	INTERLOCK WITH FEATURE PUMP
UV-C	UV CHAMBER	--	120	1	2#12,1#12G	1/2"	--	--	20A/1P, GFCI			CONNECT TO CONTROL CABINET UV-1. REFER TO INSTALLATION INSTRUCTIONS.



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL SCHEDULES

SHEET #

E601

INTERIOR LUMINAIRE SCHEDULE										
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP		VOLTS	MOUNTING	NOTES	MAX VA	
				QTY	TYPE					
C1	LED, SQUARE SURFACE MOUNTED, WET LISTED, DOWNLIGHT	DMF LIGHTNG	DRD5S4S109350	1	LED	277	SURFACE	MOUNT IN RECESSED 40 OCTAGONAL JUNCTION BOX	12	
C2	LED, VANDEL RESISTANT CORNER MOUNTED FIXTURE	LUMINAIRE LED	VCM8-4FT-NODIM-50W-35K-MVOLT-OP-WHT	1	LED	277	CORNER		50	
C2 EM	LED, VANDEL RESISTANT CORNER MOUNTED FIXTURE, EM BATTERY	LUMINAIRE LED	VCM8-4FT-NODIM-50W-35K-MVOLT-OP-WHT-EMB310	1	LED	277	CORNER		50	
J1	LED, HAZARD LOCATION RATED, SEALED, JELLY JAR	AZZ RIGALITE	AVPH-LED-U-HF-G-C	1	LED	277	SURFACE		26	
L4	LED, 4' SURFACE LINEAR	MARK LIGHTING	S2SD-LSL-4'-MSL4-90CRI-35K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT	1	LED	277	SURFACE		32	
L7 EM	LED, 7' SURFACE LINEAR, EM BATTERY	MARK LIGHTING	S2SD-LSL-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-CLL-MVOLT-WHTT-E10WLCP	1	LED	277	SURFACE		56	
L12 EM	LED, 12' LINEAR PENDANT, WHITE, EM BATTERY	MARK LIGHTING	S2PD-LCB-12'-MSL6-90CRI-35K-1000LMF-SCT-MIN10-FL L-MVOLT-WHTT-2E10WLCP-ZT-F2-36A-SQCY-WHTCY-W CRD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	96	
P7	LED, 7' LINEAR PENDANT, WHITE	MARK LIGHTING	S2PD-LCB-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-WHTT-ZT-F2-36A-SQCY-WHTCY-WCRD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	56	
P7 EM	LED, 7' LINEAR PENDANT, WHITE, EM BATTERY	MARK LIGHTING	S2PD-LCB-7'-MSL7-90CRI-35K-1000LMF-SCT-MIN10-FLL-MVOLT-WHTT-1E10WLCP-ZT-F2-36A-SQCY-WHTCY-WC RD	1	LED	277	PENDANT, BOTTOM OF FIXTURE LEVEL AT 7' AFF	PROVIDE SLOPE CEILING CANOPIES	56	
R1	LED, 2X4 RECESSED TROFFER	LITHONIA	ENVX-2X4-HRG-4000LM-90CRI-35K-MIN1-EZT-MVOLT	1	LED	277	RECESSED		33	
R1EM	LED, 2X4 RECESSED TROFFER, EM BATTERY	LITHONIA	ENVX-2X4-HRG-4000LM-90CRI-35K-MIN1-EZT-MVOLT-E 10WLCP	1	LED	277	RECESSED		33	
S1	LED, 4' STRIP	LITHONIA	CSS-L48-4000LM-MVOLT-35K-80CRI-ZACVH M100	1	LED	277	SURFACE	MOUNT TO SURFACE UNLESS THERE ARE PIPES THEN USE AIRCRAFT CABLE TO MOUNT BELOW PIPES.	35	
W1	LED, 20" LONG VANITY WALL SCONCE	MODERN FORMS	WS-21718-3500K-BN	1	LED	277	WALL, ABOVE MIRROR		16	
X1	LED, UNIVERSAL MOUNT EXIT SIGN, WHITE BACKGROUND, RED LETTERS	LITHONIA	LQM-S-W-3-R-MVOLT-ELN	1	LED	277	WALL, ABOVE DOOR		5	
Y1	LED, EMERGENCY LIGHT	LITHONIA	ELM4L	2	LED	277	WALL, ABOVE DOOR OR 7' AFF		5	

LIGHTING CONTROL SCHEDULE				
KEY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	NOTES
1PD	ON/OFF/DIM SWITCH	NLIGHT	RPODLA-DX-MVOLT-WH-G2	
M1	CEILING MOUNTED, DUAL TECH, WIRELESS COMMUNICATION, MOTION SENSOR	NLIGHT	RCMS-PDT-10-G2	POWER FROM RELAY PACK IN ROOM
M2	WALL MOUNTED, DUAL TECHNOLOGY MOTION SENSOR WITH ON/OFF SWITCH	SENSOR SWITCH	WSXA-PDT-VA-WH-LT	SET TO VACANCY MODE
WPPDP	RELAY PACK, WIRELESS COMMUNICATION, POWER TO MOTION SENSORS	NLIGHT	RPP20-D 24V-EFP-G2	



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Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL LIGHTING
SCHEDULES

SHEET #

E602

Branch Panel: HPP

Location: POOL MECH. 104
Supply From: MDP
Mounting: Surface
Enclosure: NEMA 4X

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC FULLY RATED
Mains Type: MCB
Mains Rating: 200A
MCB Rating: 200A/3P

Notes

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				9422...	9422...					2
3	PP1 LAP POOL CIRC PUMP [2]	70 A	3		9422...	9422...		3	70 A	PP5 REC POOL CIRC PUMP [2]
5						9422...	9422...			4
7				3880...	9422...					6
9	PP3 CLOSED SLIDE PUMP [1] [2]	30 A	3		3880...	9422...		3	50 A	PP2 OPEN FLUME SLIDE PUMP [1] [2]
11						3880...	9422...			8
13				5820...	3048...					10
15	PP4 CURRENT CHANNEL PUMP [1] [2]	40 A	3		5820...	3048...		3	20 A	PP6 SPRAY FEATURE [1] [2]
17						5820...	3048...			12
19										14
21										16
23										18
25										20
27	TVSS UNIT	30 A	3	0 VA						22
29					0 VA					24
						0 VA				26
										28
										30

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	123044 VA	105.74%	130111 VA		
				Total Conn. Load:	123044 VA
				Total Est. Demand:	130111 VA
				Total Conn.:	148 A
				Total Est. Demand:	156 A

Notes:
[1] PROVIDE GFCI BREAKER
[2] PROVIDE SHUNT TRIP

Branch Panel: LPP

Location: POOL MECH. 104
Supply From: TRP2
Mounting: Surface
Enclosure: NEMA 4X

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KAIC FULLY RATED
Mains Type: MCB
Mains Rating: 150A
MCB Rating: 150A/3P

Notes:

[illegible]

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2176 VA	109.93%	2392 VA		
Power	27928 VA	100.00%	27928 VA	Total Conn. Load:	34564 VA
Receptacle	3960 VA	100.00%	3960 VA	Total Est. Demand:	34780 VA
Owner Equipment	500 VA	100.00%	500 VA	Total Conn.:	96 A
				Total Est. Demand:	97 A

Notes:
[1] PROVIDE GFCI BREAKER



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1700 Bull Pasture Rd, Eagle, CO 81631

NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE:
ISSUE DATE: 3/22/24
PROJECT #: 23079
TITLE: ELECTRICAL NEW PANEL
SCHEDULES

SHEET #

E610

1 ELECTRICAL SITE DEMO PLAN
1" = 20'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D9	EXISTING UTILITY METER IS MOUNTED TO THE REMOVED FENCE. PROVIDE A TEMPORARY SUPPORTING POST FOR BETWEEN WHEN THE EXISTING FENCE IS REMOVED AND THE NEW WALL. THE METER WILL BE MOUNTED TO IS CONSTRUCTED.



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[illegible]

SCALE: 1" = 20'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: ELECTRICAL DEMO SITE PLAN

SHEET #:

ED100



*innovative
electrical
systems, inc.*

8093 West 11th Lane
Lakewood, CO 80227
303-407-7181
kly@iesystems-inc.com

Mountain Recreation Eagle Pool
1700 Bull Pasture Rd, Eagle, CO 81631

[illegible]

SCALE: 1/4" = 1'-0"

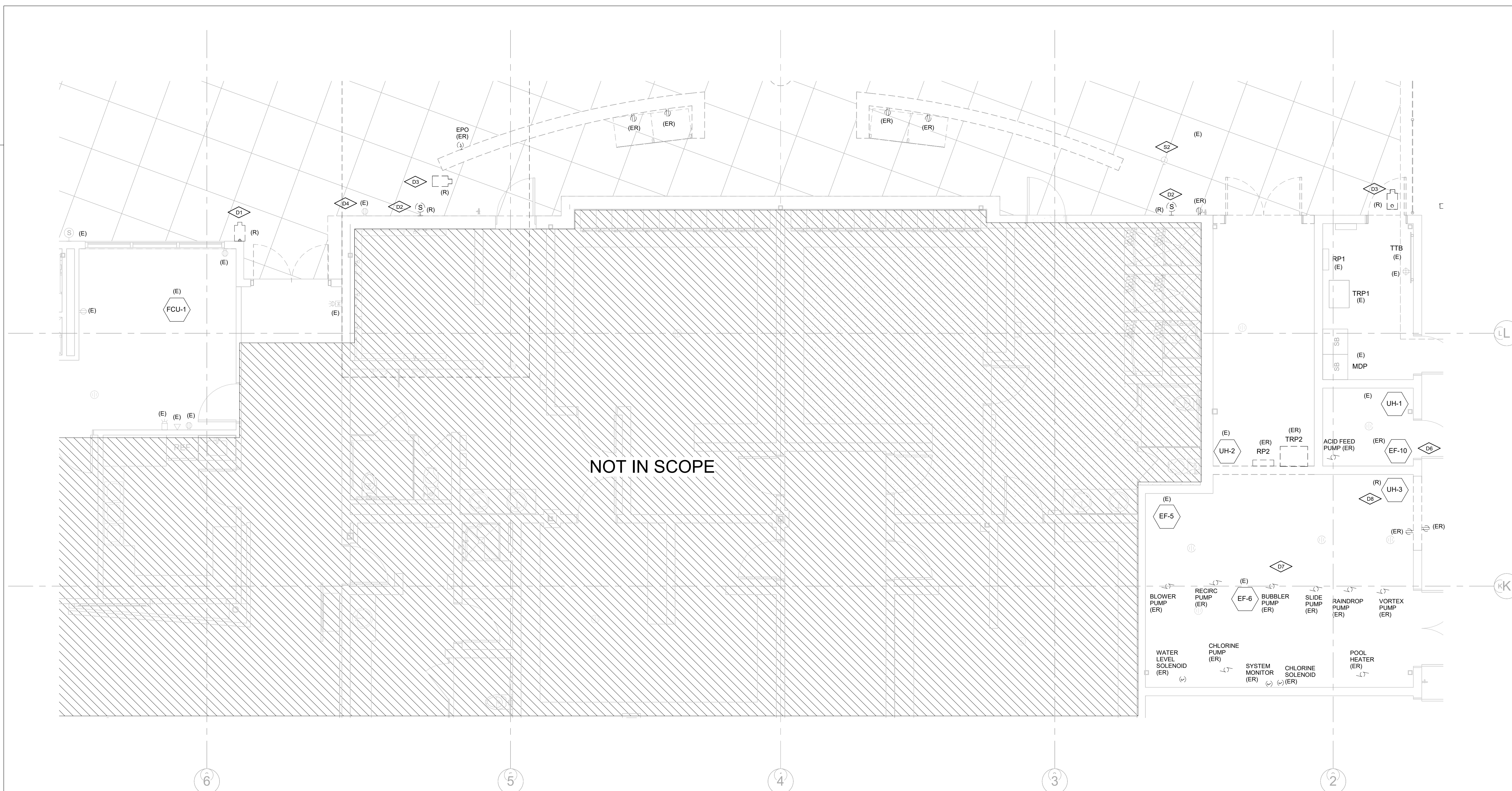
ISSUE DATE: 3/22/24

PROJECT #: 23079

TITLE: ELECTRICAL FIRST FLOOR
DEMO POWER & SYSTEMS
PLAN

SHEET #:

ED101



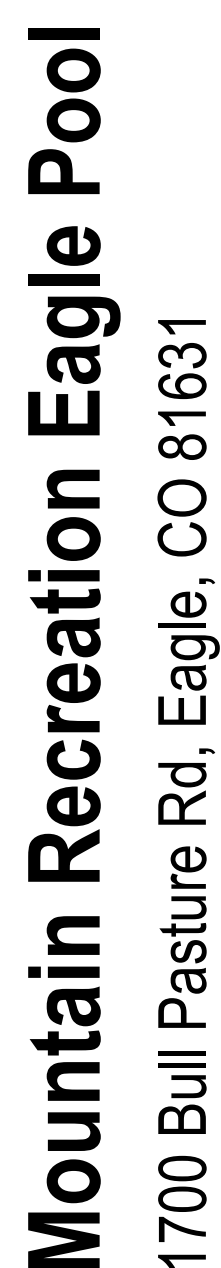
1 DEMO FIRST FLOOR POWER & SYSTEMS PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D1	THERE ARE TWO CAMERAS AT THIS LOCATION THAT WILL BE RELOCATED TO NEW DOUBLE DOORS ON ADDITION. REFER TO NEW PLANS.
D2	EXISTING SPEAKERS TO BE RELOCATED TO NEW EXTERIOR WALL AND RECONNECTED. REFER TO NEW PLANS.
D3	CAMERA WILL BE RELOCATED INSIDE TO NEW ADDITION. REFER TO PLANS.
D4	REMOVE WPIU COVER AND GFCI DEVICE. A NEW NON GFCI WILL REPLACE IT.
D6	DEMO ELECTRICAL TO EXISTING FAN.

KEYNOTE LEGEND	
Key Value	Keynote Text
D7	DEMO ELECTRICAL TO ALL EXISTING POOL EQUIPMENT SHOWN, TYPICAL ALL POOL DEVICES SHOWN ON THIS PLAN.
D8	UNIT HEATER IS BEING RELOCATED. EXISTING CIRCUIT WILL BE RELOCATED TO NEW LOCATION FOR UH-3.
S2	EXISTING SATELLITE MOUNTED TO SOFFIT TO REMAIN. CABLE WILL NEED TO BE REROUTED THROUGH THE NEW ADDITION AND RECONNECTED. PROTECT DURING CONSTRUCTION.



**NOT FOR
CONSTRUCTION**

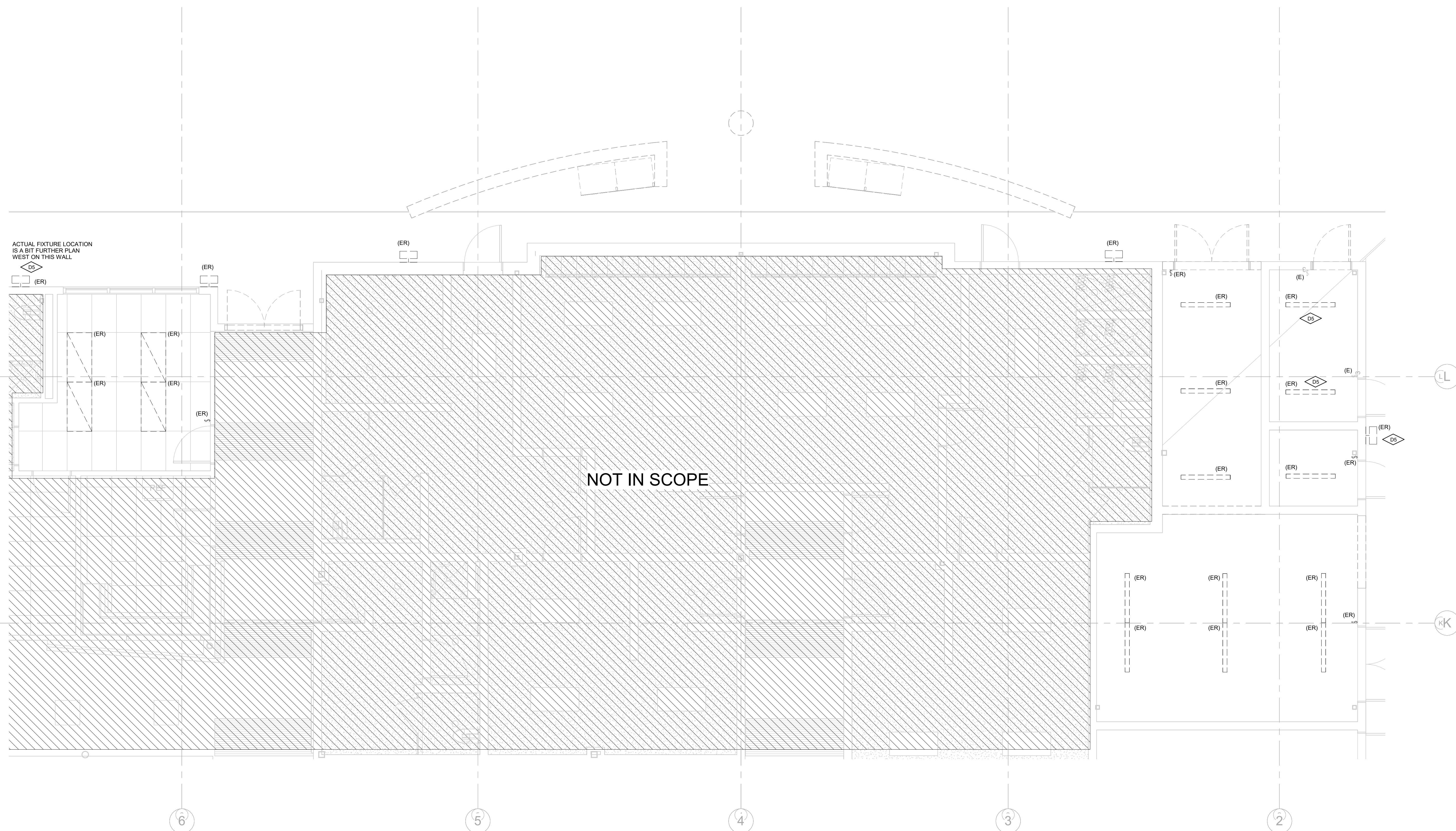


NO.	DATE:	TITLE/PURPOSE:
1	03/22/2024	SITE PLAN APPLICATION 02

SCALE: 1/4" = 1'-0"
 ISSUE DATE: 3/22/24
 PROJECT #: 23079
 TITLE: ELECTRICAL DEMO LIGHTING
 PLAN

SHEET #:

ED111



1 DEMO FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	Keynote Text
D5	REMOVE EXISTING LIGHT BUT MAINTAIN CIRCUIT. A NEW FIXTURE MATCHING THE ADDITION WILL REPLACE THIS FIXTURE AT THIS LOCATION. REFER TO NEW PLANS.

CERTIFICATE OF DEDICATION AND OWNERSHIP

The undersigned, Wynton Homes, LLC, a Colorado limited liability company, and the Town of Eagle being the owners in fee simple of all that real property described as follows:

A parcel of land situate in Section 4, Township 5 South, Range 84 West, of the Sixth Principal meridian, being a portion of Tracts 38, 44 and 55, of said Township and Range, County of Eagle, State of Colorado, being more particularly described as follows:

Parcel B and Lot 1 according to the Final Plat Brush Creek Meadows Filing 4 recorded as Reception No. 803395 in the Office of the Eagle County Clerk and Recorder, County of Eagle, State of Colorado.

has by these presents laid out, platted and subdivided the same as shown on this Plat and designated the same as SOLEIL HOMES AT BRUSH CREEK FILING 1, a subdivision in the Town of Eagle, County of Eagle, State of Colorado; and does hereby make the following dedications and grants: Tract C, and Tract E, for public right of way.

Executed this 15th day of November, 2016

Owner: Town of Eagle
PO Box 609
Eagle, Colorado 81631

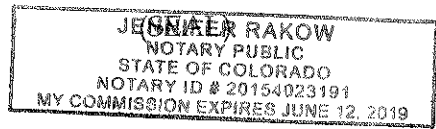
By: Aune McElbain
Name: Aune McElbain, Mayor



STATE OF COLORADO)
COUNTY OF EAGLE)

The foregoing Certificate of Dedication and Ownership was acknowledged before me this 15th day of November, 2016, by Aune McElbain as Mayor of Town of Eagle.

Witness my hand and official seal. Jennifer Rakow
Notary Public



My commission expires June 12, 2019

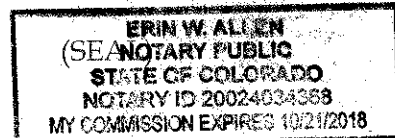
Owner: Wynton Homes, LLC,
a Colorado limited liability company
PO Box 3908
Eagle, Colorado 81631

By: John L. Purchase
Name: JOHN PURCHASE

STATE OF Colorado)
COUNTY OF Eagle)

The foregoing Certificate of Dedication and Ownership was acknowledged before me this 15th day of November, 2016, by John L. Purchase as Manager of Wynton Homes, LLC, a Colorado limited liability company.

Witness my hand and official seal. Erin W. Allen
Notary Public



My commission expires: 10/21/2018

SUBORDINATION BY MORTGAGEE

US Bank being the holder of a promissory note secured by the following deed of trust: Dated 3/18/2015 and recorded 4/1/2015 at Reception No. 201515178, hereby consents to the subdivision of the lands set forth in this Final Plat, Soleil Homes at Brush Creek Filing 1, and subordinates the lien represented by the aforesaid deed of trust to the dedications, easements, and restrictions as shown on this Final Plat and relative covenants, conditions and restrictions.

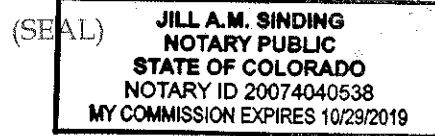
Mortgagee: US Bank

By: Erin W. Allen
Name: Erin W. Allen

STATE OF Colorado)
COUNTY OF Eagle)

The foregoing Certificate of Dedication and Ownership was acknowledged before me this 15th day of November, 2016, by Erin W. Allen as VP of US Bank.

Witness my hand and official seal. Erin W. Allen
Notary Public



My commission expires: 10/21/2018

TITLE CERTIFICATE

LAND TITLE GUARANTEE does hereby certify that it has examined the title to all lands shown on this Plat and that title to such lands is vested in Wynton Homes, LLC, a Colorado limited liability company, and the Town of Eagle, free and clear of all liens, and encumbrances, except as follows: DEED OF TRUST RECORDED 4/1/15 UNDER RECEPTION NO. 201505579, DEED OF TRUST RECORDED 4/1/15 UNDER RECEPTION NO. 201505579, DEED OF TRUST RECORDED 4/20/15 UNDER RECEPTION NO. 201506576, ALL AS TO LOTS 1 + 2

DEED OF TRUST RECORDED 10/31/16 UNDER RECEPTION NO. 201618478, DISBURSEMENT NOTICE RECORDED 10/31/16 UNDER RECEPTION NO. 201618478, BOTH AS TO LOT 2

DEED OF TRUST RECORDED 8/31/16 UNDER RECEPTION NO. 201613934, DISBURSEMENT NOTICE RECORDED 8/31/16 UNDER RECEPTION NO. 201613935, BOTH AS TO LOT 2C

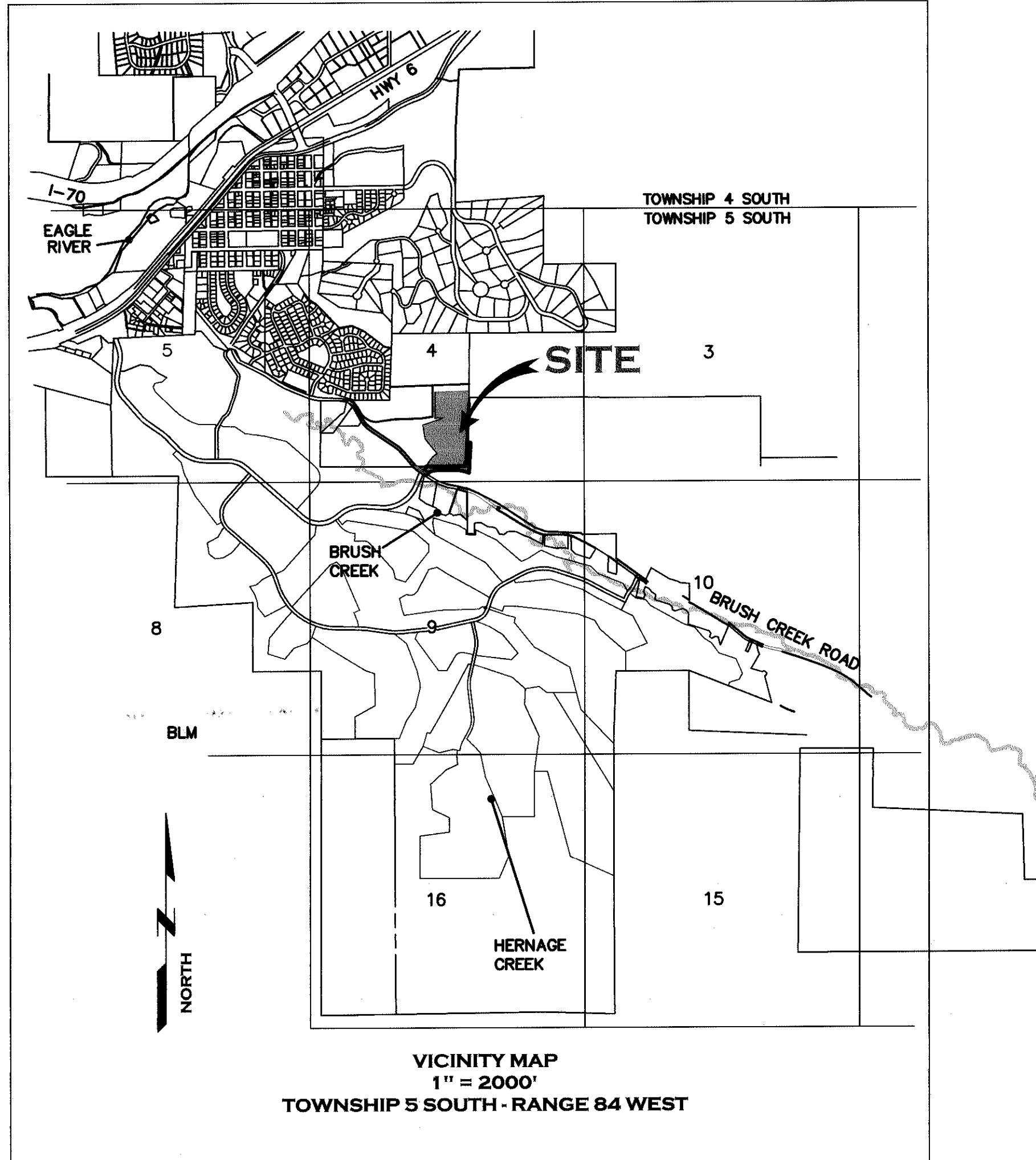
Executed this 2nd day of NOVEMBER, 2016

By: Erin W. Allen
Title Examiner

CORRECTION PLAT

SOLEIL HOMES AT BRUSH CREEK FILING 1

A RESUBDIVISION OF PARCEL B AND LOT 1 BRUSH CREEK MEADOWS FILING 4
TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO
SEE NOTE 1 HEREON



BOARD OF TRUSTEES CERTIFICATE

This Plat approved by the Board of Trustees of the Town of Eagle, Colorado, this 15 day of November, 2016, for filing with the Clerk and Recorder of Eagle County, Colorado, and for conveyance or dedication to the Town of the public dedications shown hereon; subject to the provisions that approval in no way obligates the Town of Eagle for financing or constructing of improvements on said lands, streets or easements dedicated to the public except as specifically agreed to by the Board of Trustees of the Town of Eagle. Further, said approval in no way obligates the Town of Eagle for maintenance of public improvements until construction of said improvements has been completed in accordance with the Town of Eagle's specifications and the Town of Eagle has agreed to accept said improvements. This approval does not guarantee that the size, soil conditions, sub-surface geology, ground water conditions, or flooding conditions of any lot shown hereon are such that a building permit, development permit, or any other required permit will be issued. This approval is with the understanding that all expenses involving required improvements for all utility services, paving, grading, landscaping, curbs, gutters, sidewalks, road lighting, road signs, flood protection devices, drainage structures, and all other improvements that may be required shall be the responsibility of the owners designated hereon and not the Town of Eagle, unless otherwise specifically agreed to in writing by the Board of Trustees.

TOWN OF EAGLE, COLORADO

By: Aune McElbain
Mayor

Witness my hand and seal of the Town of Eagle, Colorado

ATTEST: Jenn
Town Clerk



Archibeque Land Consulting, Ltd
~ Professional Land Surveying & Mapping ~
115 Broadway - P.O. Box 3893 Eagle, Colorado 81631
970.328.6020 Office 970.328.6021 Fax
INFO@PROLANDSURVEY.COM

NOTES:

1) The purpose of this Correction Plat is to revise the Building Envelopes for Lots 1, 2, 6 and 26 and to add a Drainage Easement to Lot 26. All other elements on this plat remain unchanged from the original.

Regulations and Colorado Revised Statutes concerning the subdivision of land to be recorded with the Eagle County Clerk and Recorder pursuant to

C.R.S. 38-35-109 such that each tract, parcel, lot and right of way, may be uniquely described with reference to this Final Plat.

2) BASIS OF BEARING: S02°59'06"S for the East Line of Lot 1, as shown and described herein.

3) SURVEY DATE: May 2014.

4) Location of boundary lines, and Easements are based upon the plats for Brush Creek Meadows and Brush Creek Meadows, Filing 4, as referenced herein, and Land Title Company title commitment File No. 50038137, dated April 18, 2014 and Survey Monuments found, as shown and described herein.

5) Wynton Homes, LLC, hereby dedicates to the Town of Eagle the following perpetual, non-exclusive easements and rights-of-way:

a) Utility Easements on, over, across and through those areas designated hereon as "Utility Easement" INSIDE of all Lots, being varying in width along all Lot lines adjacent to a Public Right-of-Way for the purpose of i) the installation, use, repair, replacement, improvement and maintenance of utilities of any kind whatsoever, including but not limited to waterlines and hydrants, sanitary sewerlines and manholes, telephone lines, cable television lines, gaslines, electric lines, fiber optic lines, other communication lines and all related structures, together with a perpetual right of ingress and egress thereto.

b) Sewer Easements on, over, under, above, across and through those areas designated hereon as "Sewer Easement" for the purposes of disposal and transmission of domestic sewage and storm water, the installation, use, repair, replacement, improvement and maintenance of sanitary sewer structures including but not limited to manholes, pipes and all related structures, together with a perpetual right of ingress and egress thereto.

c) Public Pedestrian Easement on, over, above, across and through those areas designated hereon as "Public Pedestrian Easement" for the use of the public for pedestrian and non-motorized vehicular traffic.

6) Wynton Homes, LLC, for itself, its successors and specific assigns, hereby reserve the following perpetual and non-exclusive easement and right-of-way for a future conveyance via separate legal instrument:

a) Drainage Easements on, over, under, above, across and through those areas designated hereon as "Drainage Easement" for the purposes of storm drainage, drainage of water flowing from other lands along with the installation, use, repair, replacement, improvement and maintenance of drainage structures including but not limited to swales, gutters, ditches, pipes, culverts, stormdrains, manholes and inlets, together with a perpetual right of ingress and egress thereto.

b) Access Easement on, over, under, above, across and through Tract D for the benefit of all Lots for ingress and egress, both pedestrian and vehicular, and passage upon, across and over said easement.

7) The easements reserved by Wynton Homes, LLC shall not merge with any fee interest owned by Wynton Homes, LLC, presently or in the future but shall remain separate and distinct property rights of Wynton Homes, LLC, its successors and assigns until relinquished in accordance with law.

8) The easements that are reserved to Wynton Homes, LLC, in the future, be dedicated to public, quasi-public or other entities for public or other use.

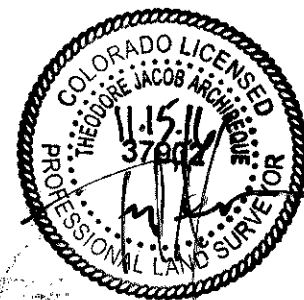
9) Lineal Units of the U.S. Survey Foot were used herein.

10) According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification hereon.

SURVEYOR'S CERTIFICATE

I, Theodore J. Archibeque, do hereby certify that I am a professional land surveyor licensed under the laws of the State of Colorado, that this Plat is a true, correct, and complete Plat of SOLEIL HOMES AT BRUSH CREEK FILING 1, as laid out, platted, dedicated and shown hereon, that such Plat was made from an accurate survey of said property by me and under my supervision and correctly shows the location and dimensions of the lots, staked upon the ground in compliance with Title 38, Article 51, C.R.S., as amended. I further certify that this plat contains all the information required by section 38-33.3-209 C.R.S., contained within the Colorado Common Interest Ownership Act.

EXECUTED this 15 day of NOV, 2016.



Theodore J. Archibeque, PLS 37902
Professional Land Surveyor
State of Colorado

CLERK AND RECORDER'S CERTIFICATE

This Plat was filed for record in the office of the Eagle County Clerk and Recorder at 11:17 o'clock A.M. on the 16th day of November, 2016, and is duly recorded at Reception No. 201619459

EAGLE COUNTY CLERK & RECORDER

By: Deputy

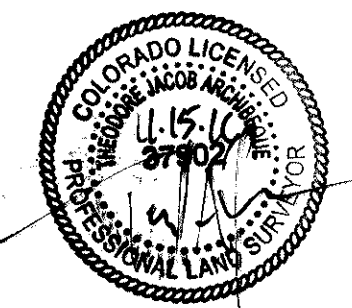
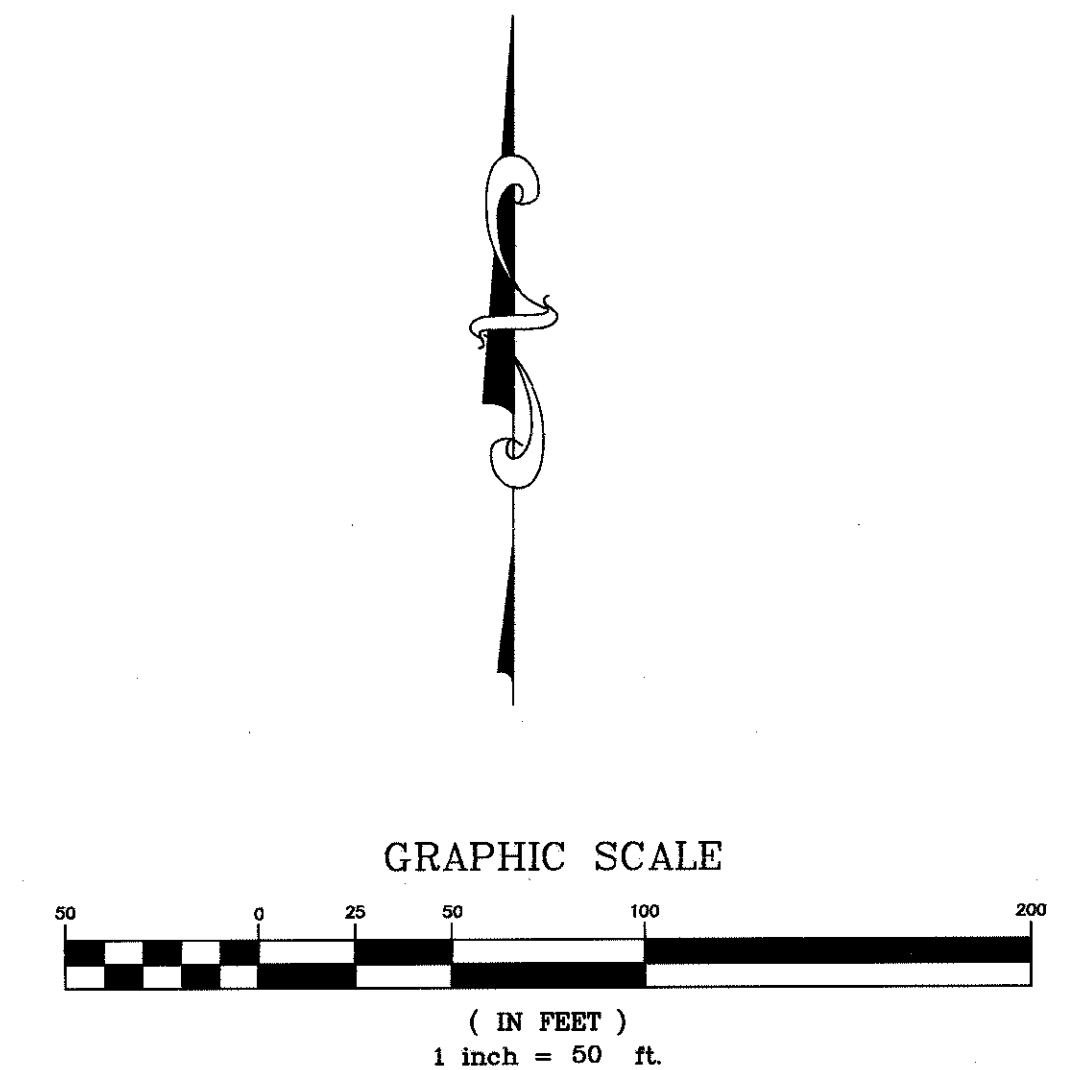


CORRECTION PLAT			
SOLEIL HOMES AT BRUSH CREEK FILING 1			
A RESUBDIVISION OF PARCEL B AND LOT 1 BRUSH CREEK MEADOWS FILING 4 TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO			
DRAWN BY:	MSS	JOB NUMBER:	05230
SHEET	1	DATE:	05-01-14
OF	3	CHECKED BY:	TJA

REVISED 03-06-2015 ADDED PED. EASEMENT TRACT D
REVISED 02-27-2015 REVISED PER TOWN COMMENTS
REVISED 08-11-2014 ADDED BUILDING ENV.
REVISED 06-20-2014 MINOR PARCEL CHANGES.
REVISED 05-08-2014 ADDED SEWER EASMT.

CORRECTION PLAT
**SOLEIL HOMES AT
BRUSH CREEK FILING 1**

A RESUBDIVISION OF PARCEL B AND LOT 1 BRUSH CREEK MEADOWS FILING 4
TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO



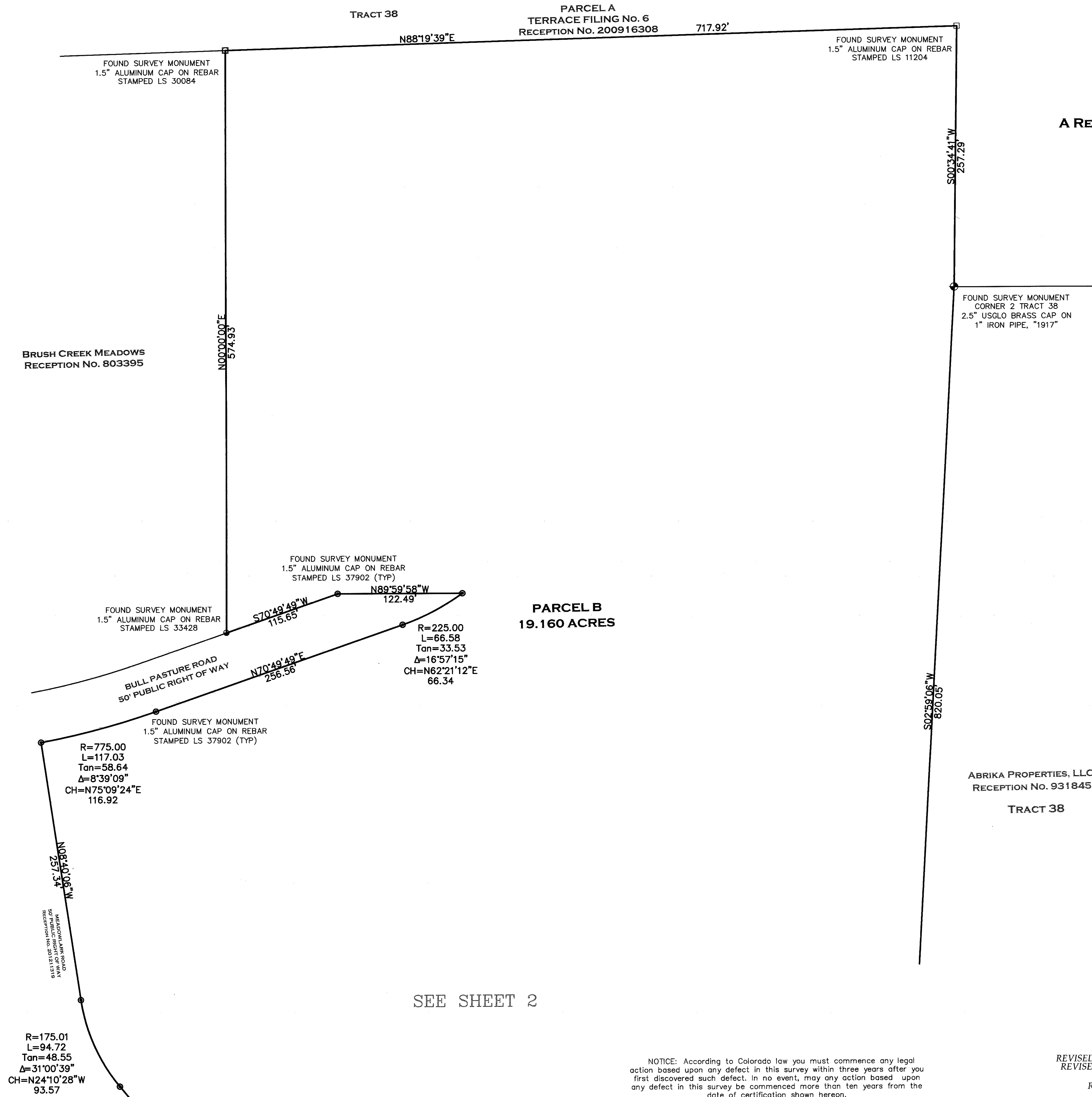
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CORRECTION PLAT SOLEIL HOMES AT BRUSH CREEK FILING 1 A RESUBDIVISION OF PARCEL B AND LOT 1 BRUSH CREEK MEADOWS FILING 4 TOWN OF EAGLE, COUNTY OF EAGLE, STATE OF COLORADO			
DRAWN BY:	MSS	JOB NUMBER:	05230
SHEET	3 OF 3	DATE:	05-01-14
CHECKED BY:	TJA	DRAWING NAME:	05230_SOLEIL-1.dwg

REVISED 03-06-2015 ADDED PED. EASEMENT TRACT D
REVISED 02-27-2015 REVISED PER TOWN COMMENTS
REVISED 08-11-2014 ADDED BUILDING ENV.
REVISED 06-20-2014 MINOR PARCEL CHANGES.
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NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discovered such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of certification shown hereon.

SEE SHEET 2





To: Planning & Zoning Commission

From: Planning Department

Date: April 16, 2024

Agenda Item: LUDC text amendment to resolve inconsistencies, provide clarity and correct omissions for several items within the Land Use and Development Code (LUDC).

REQUEST

For the Planning Commission to review and approve staff proposed modifications to the Land Use and Development Code.

BACKGROUND

In October 2023, the new Land Use and Development Code (2023 LUDC), also known as ReCode, took effect. In the months since, staff have identified a number of modifications and/or corrections that are needed as soon as possible in order for the new Code to work as intended. The modifications proposed fall into the general categories of omissions, minor conflicts, and enhanced clarity. By Code, these corrections require review and recommendation from the Planning Commission, and then adoption by Town Council. In this initial round of updates, staff has prepared a list of changes for the Commission's review:

1. Adjustments to Development Permit Thresholds
2. Insertion of Minimum Lot Area standard in Commercial Zone Districts (CG, CGE, IND, BD)
3. Allowance of functional turf in commercial and industrial zone districts
4. Insertion of easement requirements
5. Adjustments to Newspaper Notice requirement
6. Applicability of Geologic Hazards Evaluation
7. Applicability of Wildlife Conservation Study
8. Modification to definition of Accessory Dwelling Unit (ADU)

On March 19, 2024, the Planning Commission held a work session to discuss these modifications. Feedback from this work session has since been integrated into the proposed Code amendments that are detailed in the 'Analysis' section of this memo.

The insertion of "Outdoor Recreation Facility" as a use requiring a Special Use Permit in the Commercial General East and Commercial Interchange zone districts was on the list presented at the P&Z work session on the 19th. Following considerable discussion, the Planning Commission requested additional information on potential standards associated with this use. Subsequently, this modification has been removed from the list of changes. Staff are working to generate an overall approach to improving clarity and consistency within the use tables, use standards and use definitions and plan to bring Outdoor Recreation back to P&Z as an example of our overall approach to the above.

Following guidance from the Town Attorney, the plat certificates presented at the meeting of May 19th have also been removed from tonight's list of code updates. Best practice has certain items, such as plat certificates, living in a policy manual approved by the Community Development Director. Items living outside the 2023 LUDC are those that necessitate more flexibility while continually supporting the regulations in the code.

ANALYSIS

Development Permit Threshold (Section 4.17.080.C.2.b)

Staff propose a minor adjustment to the Development Permit Threshold table (Table 4.17-5) that would allow for an administrative review of development plans for up to 4 residential dwelling units. The previous Code required staff to administratively review and approve developments with up to 8 units, which created some discomfort given new residential design standards, and potential impact considerations from these relatively large residential projects. The 2023 LUDC reduced the residential threshold to 2 units, which will unnecessarily forward relatively simple proposals to the Planning Commission. We would suggest that 4 units be the threshold to streamline the review processes and limit the need for public hearing to more impactful developments.

Proposed Redline Changes

Table 4.17-1: Development Plan Review Thresholds [1]			
Type of Development	Administrative Development Plan (Director)[2]	Minor Development Plan (Planning & Zoning Commission)	Major Development Plan (Town Council)
Residential	More than 1 new SF or duplex Up to 4 dwelling units unless exempt in 4.17.080.C.2.b above	New construction, renovation, or additions to residential structures that require design review	Planned Unit Development

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Minimum Lot Size for Commercial Zone Districts (CG, CGE, IND, BD)

The 2023 LUDC does not include minimum lot area (MLA) standards for the Commercial General (CG), the Commercial General East (CGE), the Light Industrial (IND), or the Broadway (BD) zone districts. A minimum lot area standard is essential for the proper administration of land use processes, specifically subdivision, in any zone district. Specifying minimum lot sizes for these zone districts will ensure lot sizes that are sufficient to support the intended commercial and industrial uses of those zone districts. Staff can find no evidence that this omission was intentional, and as such believe this was an unintended outcome. We recommend reinserting the following MLA standards, which are consistent with the previous LUDC.

Zone District	Minimum Lot Area
Commercial General	20,000 sf
Commercial General East	100,000 sf
Light Industrial	20,000 sf
Broadway	3,125 sf

An example of where this standard lives within the 2023 Code can be found below for the Commercial General Zone District.

Table 4.05-2: CG Lot and Dimensional Standards				
Lot Standards			Building Standards	
Min. Lot Area		20,000 sf	D Height (max)	35 ft [1]
Public Street Frontage (min)		25 lin. ft.	Building Footprint (max) 25,000 sf	
Lot Coverage (max)		80%	Parking Standards	
Building Placement			Required parking	Sec. 4.12
Setbacks			Design Standards	
A	Front (min)	25 ft	Site layout	Sec. 4.10
B ₁	Street Side (min)	15 ft	Mixed-use structures	Sec. 4.10
B ₂ /C	Rear (min) or Interior Side		Residential structures	Sec. 4.10
	Parking lot adjacent	0 ft		
	Com/Ind district adjacent	12.5 ft		
	Mixed-use district adjacent	25 ft		
Live Stream Setback				
No disturbance area		75 ft		

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Allowance of Turf in Commercial Zone Districts (Section 4.11.030.B)

The 2023 LUDC introduces water conservation regulations including a limitation on the amount of turf permitted by zone districts. Within Commercial and Industrial zone districts, turf is not allowed. Unfortunately, this limitation does not consider commercial development plans that might require some turf grass to support uses such as dog parks, playgrounds, athletic fields, picnic areas, or communal gathering spaces, which could be demonstrated as legitimate for these districts. Staff propose that turf should be limited, but not prohibited, in the commercial and industrial zone districts.

Proposed Redline Changes

Turf Grass

Turf grass shall be a high-altitude, drought-tolerant product. Turf grass is not permitted on slopes greater than 20 percent. The use of functional and/or decorative turf grass shall be limited as follows:

Table 4.11-1: Use of Turf Grass By Zone District	
Residential Low and Medium	2,500 square feet per dwelling unit
Residential High	Limited to private open space areas
Mixed-Use	Limited to private open space areas
Commercial and Industrial	No <u>decorative</u> turf grass allowed
Public	Allowed
Rural	5,000 square feet per dwelling unit

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Easements (4.16.080)

The previous code included requirements specific to easements that outlined when an easement required dedication, the prohibition of easements, and the allowance for encroachment into easements. The current 2023 LUDC is missing this language, which staff believe was an unintended omission. Staff is proposing to reinsert the previous easement language that can be found in Section 4.15.070 of the previous code and through this link: [Section 4.13.100. Easements](#).

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Newspaper Notices (4.17.050.C.7)

The previous code specified that the publication of a public notice in a newspaper was required at least 15 days prior to the public hearing. The 2023 LUDC does not include this requirement. Staff believes this was an unintended omission and recommends inserting language providing a 15-day deadline for newspaper publication prior to a public hearing.

Proposed Redline Changes

7. Published Notice

The Director shall be responsible for preparing the content of the notice and ensuring that the notice is properly published. Notice shall be published no later than 15 days before any meeting or action.

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Geologic Hazards Evaluation (4.14.030.E.2)

Staff propose the 2023 LUDC enable the Director the discretion to waive the geologic hazards evaluation for projects that meet certain criteria including verification that there is no history of geologic issues, no identifiable geologic hazards, and/or evidence of a previous geologic hazards evaluation. This modification will remove an unnecessary requirement for projects that meet the qualifying criteria outlined below.

Proposed Redline Changes

2. Exemptions

The following are exempt from Geologic Hazards Evaluation, but are still subject to other applicable site evaluation processes and standards. An exemption from these standards does not exempt the applicant from liability and responsibility to evaluate and mitigate known geologic hazards on a site.

- a. Minimum impact installations such as fences, lighting, poles, signs, or decorations;
- b. Movement or parking of machinery or equipment; or
- c. Installation of decorative or perimeter walls that do not serve to retain soil, unless supporting a load or other weight surcharge.
- d. The Director shall, at their discretion, waive the Geologic Hazards Evaluation for projects that meet criteria:
 - a. Visual inspection of the proposed site confirms that there are no geologic hazards in the immediate area;
 - b. The property is located in a subdivision that is largely built out and that has no history of geologic issues; or
 - c. Research confirms that a full geologic hazards analysis was conducted as part of the subdivision approval process that established the lot.

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

Wildlife Conservation Study (4.14.040.B.1)

The 2023 LUDC requires a Wildlife Conservation Plan (WCP) for new developments on sites larger than 2 acres as well as single family dwellings and duplexes. Staff recommend removing this requirement for single family dwellings and duplexes and instead requiring the WCP for major subdivision applications. This revision will ensure that the WCP is required at the appropriate time in the review process and avoid an unnecessary and burdensome step for small single-family and duplex developments.

Proposed Redline Changes

1. Wildlife Impact Review Required

All development subject to this Section shall be designed so it does not adversely impact wildlife and wildlife habitats or that such adverse impacts have been avoided or fully mitigated. The review criteria used to determine if this standard has been met are in Section 4.14.040D. Proposed developments that will or may have an adverse impact on wildlife and wildlife habitats shall have a Wildlife Conservation Plan. The Wildlife Conservation Plan shall incorporate existing studies previously prepared by the Colorado Department of Natural Resources and Colorado Parks & Wildlife. All development shall consult with Colorado Parks & Wildlife prior to preparing the application's Wildlife and Conservation Plan. This Section shall apply to the following:

- a. All ~~subdivisions on land not previously subdivided through the Town of Eagle subdivision process.~~~~new single-family detached residences and duplexes.~~
- b. All new development applications for sites two acres or larger.

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

ADU Definition (Section 4.20.020)

The 2023 LUDC standards for accessory dwelling units (ADUs) allow ADUs as an accessory use for single family dwellings and duplexes. However, the 2023 LUDC is missing duplexes in the definition of an ADU. To enhance clarity and align the definition with existing standards for ADUs, staff recommend adding duplex to the definition of ADU.

Proposed Redline Changes

Accessory dwelling unit

An individual dwelling unit equipped with a full kitchen that is subordinate to, and contained within or adjacent to, a single-family dwelling ~~or duplex.~~

The Planning Commission indicated general acceptance of this proposed change at the May 19 work session.

PUBLIC COMMENT/OUTREACH

Public hearings are being held both at the Planning & Zoning Commission meeting in April and the Town Council meeting in May to provide opportunities for the public to comment on the proposed corrections. Additionally details about the project are publicly available on the Town's website.

As of April 10, 2024, no public comment has been received.

ATTACHMENTS

- None.



To: Planning & Zoning Commission
From: Community Development Department
Date: April 16, 2024
Agenda Item: Community Development Department Update

LONG RANGE PLANNING

ReCode Eagle – The Land Use and Development Code (LUDC)

- Staff is updating application forms, checklists and creating SOPs and other policy documents that will be supplementary to the LUDC.
- Town staff is working with Municode to facilitate completion of the upload. The previous version of the Land Use and Development Code will still apply to previous approvals and will be available to staff and the public as an archived version.
- The new 2023 Code is available here: [Land Use and Development Code Effective 10/23/2023 | Town of Eagle, CO - Official Website](#)
- Staff is continuing to catalog questions from the Public, tracking items for technical changes and researching Code Sections to determine where adjustments and amendments may be necessary.
 - As part of this work, staff has identified a number of questions from the public about the use table, use standards and use definitions. We are working on an approach to amend these Code sections for additional clarity and consistency.
- Staff has begun presenting corrections and adjustments to the Land Use and Development Code. The tentative schedule for this initial Code adjustment effort is as follows:
 - 3/19 – presented first suggested amendments to Planning Commission in a work session
 - 4/16 - bring first suggested amendments to Planning Commission at a public hearing
 - 5/14 - bring first suggested amendments to Town Council at a public hearing
- As part of the new Land Use Code, many application types changed from PZ or TC level reviews to PZ or administrative level reviews, due to this change, PZ and TC will not see as many land use applications as had previously been before them. Staff has been meeting frequently with residents and developers who are actively working on plans for development or re-development and are seeking help with navigating the new regulations.

LAND USE APPLICATIONS IN PROGRESS



For more information and to access project documents, visit the Town's [Active Land Use Applications Page](#).

- **AN23-01: West Eagle Housing**
 - The project consists of 9.5 acres and 113 units within 23 buildings. Applications include annexation, zoning, major development permit, and subdivision. The proposed lot area/dwelling unit is 3,278 SF, which is ~13.3units/acre.
 - Application is ongoing. No public hearings scheduled.
- **PUDA23-01: Haymeadow Major PUD Amendment**
 - This Project is a Major PUD Amendment within the Haymeadow development to:
 - Reverse the RMF-5 land swap;
 - Update the intended alignment of the extension of Sylvan Lake Rd;
 - Update the conceptual/development plan;
 - Revise the PUD Guide to align with ReCode and current best practices.
 - PUD Amendment application is currently paused.
 - Staff has received an update from the property owner that they are likely to resubmit the application based on previous referral comments in May or June of this year.
 - This application was deemed complete under the previous land use code and will continue to be processed under that code.
 - No public hearings have been scheduled.
- **HYMD23-05: Haymeadow ADA Amendment**
 - This application consists of a focused update to Haymeadow's Annexation and Development Agreement.
 - Negotiations between the Town and the applicant are ongoing.
 - The Annexation and Development Agreement is an agreement between the Town and the Property Owner/Developer/Metro District and is not a land use application. Amendments to this document are negotiated between staff/Town Council and the property owner.
- **AN23-02 Annexation/RZ23-02/PUD Plan23-01 PUD Zoning Plan: North Broadway**
 - Project Location: 101 Ping Lane and 404 Brooks Lane properties located north of Eagle's Central Business District between the railroad and the Eagle River.
 - The application for annexation of portions of the property near the Eagle River is under review. On April 2, staff was informed that the applicant will be withdrawing their PUD approval request and will be submitting instead a request for rezoning to CMU-1 or CMU-2 for entire property as part of the annexation. The new application package is expected in the next several weeks.
 - The new application will then be reviewed for completeness. This will be considerably simpler than the original request for a PUD.
 - Public Hearing Schedule: None



- **DR24-01 Reserve at Hockett Gulch Major Development Plan**
 - Major Development Plan application to construct 255 multifamily units, 28 townhome rental units, a clubhouse, and a maintenance building within planning areas PUD-2 (Phase 1B) and PUD-3 (Phase 2) of the Reserve at Hockett Gulch Planning Unit Development (PUD). Forty-five percent (45%) of the units proposed include a deed restriction requiring local residency.
 - This application was recently submitted, has been deemed complete and will likely be sent out on referral prior to April 16th.
- **DR24-02 Eagle Pool Project**
 - Minor Development Plan application to construct an addition to the pool and ice rink building and reconstruct the pool facilities and associated landscaping.
 - Planning & Zoning Commission will review and make a decision on this application.
 - Public Hearing Schedule:
 - P&Z – April 16, 2024 @ 6:00 pm.
- **SS24-01 Red Mountain Ranch Parcels 1-2 Subdivision Sketch Plan**
 - Subdivision Sketch Plan application to review and provide comment on conceptual plans for Parcels 1 and 2 within the Red Mountain Ranch PUD.
 - Planning & Zoning Commission and Town Council will review the application and provide comments to the applicant.
 - Tentative Meeting Schedule:
 - P&Z – May 21, 2024
 - TC – June 11, 2024

OTHER NOTABLE UPDATES

- Interviews are underway for the Community Development Director/Town Planner
- Town Council Reappointed Bill Nutkins, Keith Klesner, Keegan Winkeller and Jennifer Sturgeon as Planning and Zoning Commission Members.
- The Town was recently awarded a Planning Capacity Grant with Proposition 123 funds to develop a 90-day fast track approval process for affordable housing projects, conduct a land inventory and site readiness assessment, and develop an overall strategy towards Proposition 123 funding. We are in the RFP drafting phase of this project.

P&Z and Council Meeting Schedule

April 2024
April 2 nd (Planning Commission) - Cancelled
•
April 9 th (Town Council)
• P&Z Appointments



April 16th (Planning Commission) • DR24-02 Eagle Pool Project • LUDC 1st Amendment
April 23rd (Town Council) •
May 2024
May 7th (Planning Commission) – •
May 14th (Town Council) - • ReCode Amendment
May 21st (Planning Commission) - •
May 28th (Town Council) – •