

Outdoor Heritage Fund Grant Application



Instructions

After completing the form, applications and supporting documentation may be submitted by e-mail to ndicgrants@nd.gov. It is preferred that only electronic copies are submitted.

You are not limited to the spacing provided, except in those instances where there is a limit on the number of words. If you need additional space, please indicate that on the application form, answer the question on a separate page, and include with your submission.

The application and all attachments must be received by the application deadline. You may submit your application at any time prior to the application deadline. **Applicants are strongly encouraged to submit applications prior to the deadline for staff review in order ensure that proposals will be complete when submitted on deadline date.** Incomplete applications may not be considered for funding.

Please review the back of this form to determine project eligibility, definitions, budget criteria, and statutory requirements.

Project Name - Williston Water World

Name of Organization – Williston Parks & Recreation District

Federal Tax ID# - 45-6002180

Contact Person/Title – Joe Barsh: Executive Director

Address – PO Box 1153

City – Williston

State - ND

Zip Code - 58802

E-mail Address – Joeb@wprd.us

Web Site Address - <https://www.willistonparks.com/>

Phone – 701-774-9773

List names of co-applicants if this is a joint proposal

MAJOR Directive:

Choose only one response

- Directive A.** Providing access to private and public lands for sportsmen, including projects that create fish and wildlife habitat and provide access for sportsmen;
- Directive B.** Improving, maintaining and restoring water quality, soil conditions, plant diversity, animal systems and by supporting other practices of stewardship to enhance farming and ranching;
- Directive C.** Developing, enhancing, conserving and restoring wildlife and fish habitat on private and public lands; and
- Directive D.** Conserving natural areas and creating other areas for recreation through the establishment and development of parks and other recreation areas.

Additional Directive:

Choose all that apply

- Directive A.**
- Directive B.**
- Directive C.**
- Directive D. X**

Type of organization:

- State Agency
- Political Subdivision X**
- Tribal Entity
- Tax-exempt, nonprofit corporation.

Abstract/Executive Summary.

Summarize the project, including its objectives, expected results, duration, total project costs and participants. (no more than 500 words)

Williston Water World will be a destination that increases opportunities for outdoor recreation and will serve as an asset for the greater Williston community and beyond for years. The project is currently being fundraised by the Williston Community Builders, which is a 100% volunteer-based group in town. The Williston Park District has signed a letter of intent to own and operate the facility once it is completed. As the director of WPRD, I am applying for this grant on behalf of WPRD, to support the fundraising efforts to make this project a reality. If awarded, the funds will go towards the associated construction and contracting fees to bring

Williston Water World to life. A large variety of features are planned on the site, ranging from zero-depth entry, splash pad features, lazy river with wave mechanism, water slides, and a separate pool with a ninja course. The Ninja Cross course will be a regional highlight that we expect to draw crowds from out of state and country, as well as throughout North Dakota. The site will also include seating areas and shade structures that can be rented out for parties. Locker rooms/showers and concessions areas will ensure that everyone can enjoy the pool!

Due to our extreme climate, outdoor recreation opportunities are limited for the general population. It is essential to the health and wellness of area residents to have a variety of outdoor recreational activities available to them when the weather allows. Although there are outdoor pools currently in operation in nearby communities, the design and operational capacity of Williston Water World would be of a different breed. More than just a pool, Williston Water World will be an experience in itself, offering users a variety of activities to enjoy throughout their visit. From the zero-entry pool being connected to the lazy river, to the 2 different water slide options that are purposefully designed to provide different experience than that of the others throughout the state, to the lap pool with Ninja-cross, being the only outdoor option for the Ninja-cross platform in the state, the effects of Williston Water World will ripple throughout the region.

In year one, based on current operation statistics of outdoor pools in the region, it is projected that due to its location Williston Water World will sell roughly 31,000 Daily passes, & 2,446 membership passes, resulting in an average of 409 visits per day over a 77-day season. (QUALITY OF LIFE STRATEGIC EVENT FACILITY DEVELOPMENT AND IMPLEMENTATION STUDY)

The comprehensive budget for Williston Water World including phases 1 & 2 totals \$14,195,004

Project Duration:

Indicate the intended schedule for drawing down OHF funds.

Fundraising for Williston Water World has been ongoing for over 3 years to date. We are anticipating groundbreaking in the upcoming weeks and hoping for a grand opening of Spring 2025 with continued fundraising. Funds to reach this intended goal would be needed as soon as possible so that contractors can be secured to complete both phases of the project. If phase 2 of the project is to coincide with the completion of phase one, contractors will need to be secured by the end of Fall 2023 at the latest to ensure viability and avoid cost increases due to time.

Amount of Grant request: \$ 500,000

Total Project Costs: \$14,195,004

Note: in-kind and indirect costs can be used for matching funds.

Amount of Matching Funds: Funds raised/committed to date = \$8,732,262.22
A comprehensive donor list will be included with the submission of this application.

A minimum of 25% Match Funding is required. Indicate if the matching funds will be in-kind, indirect or cash. Please provide verification that these matching funds are available for your project. Note that effective as of July 1, 2015 no State General Fund dollars can be used for a match unless funding was legislatively appropriated for that purpose.

| Amount of Match | Funding Source | Type of Match (Cash, In-kind or Indirect) |
|-----------------|----------------|---|
| \$ | | |
| \$ | | |
| \$ | | |
| \$ | | |
| \$ | | |
| \$ | | |

Certifications

XO I certify that this application has been made with the support of the governing body and chief executive of my organization.

XO I certify that if awarded grant funding none of the funding will be used for any of the exemptions noted in the back of this application.

Narrative

Organization Information – Briefly summarize your organization’s history, mission, current programs and activities.

Include an overview of your organizational structure, including board, staff and volunteer involvement. (no more than 300 words)

The Williston Park and Recreation District, is a separate governing and taxing entity, with boundaries that are coterminous with the City of Williston, North Dakota. The District operates and maintains a system of parks, athletic fields, trails, and other recreation areas. The system covers approximately 390 acres and includes 14 urban parks and athletic fields (13 of which are currently developed) as well as the Williston Municipal Golf Course. The

District also maintains approximately 21 miles of trails. The District serves the residents of the City, as well as an approximately 5 to 10-mile radius surrounding the City. The District operates under the Commission form of government. The five-member board is elected for four-year staggered terms. The District currently has 34 Full-time staff segmented by departments (Parks/athletic fields maintenance, Facilities, Recreation, Administration). Depending on the season, the District will also staff between 100 – 350 part-time staff to ensure that all programs and facilities have adequate coverage. Specific to the recreation department, nearly all programs rely heavily on volunteerism to be successful. Volunteer recruitment and retention is essential to the District's ability to accomplish its mission to "Provide Superior Parks & Programs for all to enjoy and Active Life."

Purpose of Grant – Describe the proposed project identifying how the project will meet the specific directive(s) of the Outdoor Heritage Fund Program

Identify project goals, strategies and benefits and your timetable for implementation. Include information about the need for the project and whether there is urgency for funding. Indicate if this is a new project or if it is replacing funding that is no longer available to your organization. Identify any innovative features or processes of your project. Note: if your proposal provides funding to an individual, the names of the recipients must be reported to the Industrial Commission/Outdoor Heritage Fund. These names will be disclosed upon request.

Directive D. Conserving natural areas and creating other areas for recreation through the establishment and development of parks and other recreation areas.

The goal of Williston Water World is to create a place for outdoor water-based recreation. The old outdoor pool in Williston was closed in 2013, due to infrastructure issues and the community has longed for one ever since. This project is currently being fundraised by the Williston Community Builders, or local volunteer-based group in Williston, due to WPRD's inability to fund the project at this time. WPRD is working alongside the community builders in fundraising and design efforts of the pool to ensure that adequate operational measures are taken once the pool is handed over to the District of ongoing operations. Funding is needed now more than ever to sign off with the contractors to begin the project. Phase one will break ground in the upcoming weeks and phase two will be funding dependent. The Ninja-cross feature of Williston Water World will be its most innovative feature and will also work to separate the user experience from that of a standard outdoor pool in this region. Williston Water World will be a state-of-the-art facility in respect to the current standards of outdoor recreation facilities. The Ninja cross platform is as innovative as it gets and will be the first outdoor amenity in the State of North Dakota once completed. When you include the Ninja cross platform, waterslides, zero entry pool & lazy river, Williston Water World will without a doubt be an attraction that will stretch into Montana, Canada, and throughout North Dakotan communities as well.

Is this project part of a Comprehensive Conservation Plan? Yes No

If yes, provide a copy with the application.

Note: Projects involving buildings and infrastructure will only be considered if part of a Comprehensive Conservation Plan. Please refer to the "Definitions" section at the back of the form for more details.

Management of Project – Provide a description of how you will manage and oversee the project to ensure it is carried out on schedule and in a manner that best ensures its objectives will be met.

Include a brief background and work experience for those managing the project.

Williston Water World is being developed and designed by a sub-committee of the Williston Community Builders’ known as the “Pool Action Committee” or “PAC”, which includes two members of the Community Builders, myself, and two community representatives. The goal of the PAC is to ensure that community input, operational input, input on oversight and accountability & a user’s perspective, would be included in all phases of the design and development process. We are currently working with the Architect (EAPC) and CMAR (JeDunn) for the project on reviewing bids and determining a groundbreaking date that is in the best interest of the project financially. Contractor availability and time are an obstacle as well. We are hoping to break ground either late summer 2023 and anticipate a Grand Opening of the facility either late summer 2024 or early spring 2025.

Evaluation – Describe your plan to document progress and results.

Please be specific on the methods you will utilize to measure success. Note that regular reporting, final evaluation and expenditure reports will be required for every grant awarded.

After completion, Williston Water World will be owned and operated by the Williston Parks & Recreation District. The amenity will fall in line with all other WPRD facilities and a thorough financial accounting process will be put in place to manage the operation expenses & revenues of the facility. Williston Water World will also be included in the annual comprehensive financial audit the Park District undergoes to ensure transparency and accuracy in the processes that are put in place to manage its operations.

Financial Information –

A comprehensive list of all donors and financials to date, as well as a breakdown of all Williston Water World Associated costs will be included with the submission of this application.

Project Budget – Use the table below to provide an itemized list of project expenses and describe the matching funds being utilized for this project.

Indicate if the matching funds are in the form of cash, indirect costs or in-kind services. The budget should identify all other committed funding sources and the amount of funding from each source. **A minimum of 25% match funding is required.** An application will be scored higher the greater the amount of match funding provided. (See Scoring Form.)

Certain values have been identified for in-kind services as detailed under “Budget Information” at the back of this form. Refer to that section and utilize these values in identifying your matching funds. **NOTE: No indirect costs will be funded. Supporting documentation for project expenses, including bids, must be included or application will be considered incomplete.**

| Project Expense | OHF Request | Applicant's Match Share (Cash) | Applicant's Match Share (In-Kind) | Applicant's Match Share (Indirect) | Other Project Sponsor's Share | Total Each Project Expense |
|--------------------|-------------|--------------------------------|-----------------------------------|------------------------------------|-------------------------------|----------------------------|
| | \$ | \$ | \$ | \$ | \$ | \$ |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| | \$ | \$ | \$ | \$ | \$ | \$ |
| Total Costs | \$ | \$ | \$ | \$ | \$ | \$ |

Note: Costs for seeding, fencing, pipelines, wells, and cover crops cannot exceed NRCS Field Office Tech Guide without justification. Projects involving perimeter fencing must follow NRCS eligibility standards.

Budget Narrative – Use the space below to provide additional detail regarding project expenses.

Sustainability – Indicate how the project will be funded or sustained in future years.

Include information on the sustainability of this project after OHF funds have been expended and whether the sustainability will be in the form of ongoing management or additional funding from a different source.

WPRD will accept ownership and operational control of Williston Water World once it is completed, pending a signed Letter of Intent that the 3- years of operational funding are also provided on behalf of the Williston Community Builders. Going forward, Williston Water World will be funded and maintained as a park district amenity through Tax funding and the other revenue generating sources throughout the district.

Partial Funding – Indicate how the project will be affected if less funding is available than that requested.

If less funding than requested is made available to this project, the PAC will continue its fundraising efforts to ensure that Williston Water World is completed in as timely a manner as possible. This project has garnered an immense amount of support throughout the community and region. Supporting documentation such as letters of support and partnerships will exhibit the support and help to ensure that this project becomes a reality.

Partnership Recognition - If you are a successful recipient of Outdoor Heritage Fund dollars, how would you recognize the Outdoor Heritage Fund partnership? * *There must be signage at the location of the project acknowledging OHF funding when appropriate.*

The PAC will recognize this grant via signage on or at the facility once completed. All supporters of Williston Water World will also be publicly celebrated through social media marketing, as well as on WPRD marketing as well.

Awarding of Grants - Review the appropriate sample contract for your organization on the website at <http://www.nd.gov/ndic/outdoor-infopage.htm>.

Can you meet all the provisions of the sample contract? Yes No

If there are provisions in that contract that your organization is unable to meet, please indicate below what those provisions would be:

ABOUT OHF:

The purpose of the North Dakota Outdoor Heritage Fund is to provide funding to state agencies, tribal governments, political subdivisions, and nonprofit organizations, with higher priority given to projects that enhance **conservation** practices in this state by:

Directive A. Providing access to private and public lands for sportsmen, including projects that create fish and wildlife habitat and provide access for sportsmen;

Directive B. Improving, maintaining and restoring water quality, soil conditions, plant diversity, animal systems and by supporting other practices of stewardship to enhance farming and ranching;

Directive C. Developing, enhancing, conserving and restoring wildlife and fish habitat on private and public lands; and

Directive D. Conserving natural areas and creating other areas for recreation through the establishment and development of parks and other recreation areas.

EXEMPTIONS

Outdoor Heritage Fund grants may not be used to finance the following:

- Litigation;
- Lobbying activities;
- Any activity that would interfere, disrupt, or prevent activities associated with surface coal mining operations; sand, gravel, or scoria extraction activities; oil and gas operations; or other energy facility or infrastructure development;
- The acquisition of land or to encumber any land for a term longer than twenty years; or
- Projects outside this state or projects that are beyond the scope of defined activities that fulfill the purposes of Chapter 54-17.8 of the North Dakota Century Code.

OHF funds may not be used, except after a finding of exceptional circumstances by the Industrial Commission, to finance:

- A completed project or project commenced before the grant application is submitted;
- A feasibility or research study;
- Maintenance costs;
- A paving project for a road or parking lot;
- A swimming pool or aquatic park;
- Personal property that is not affixed to the land;

- Playground equipment, except that grant funds may be provided for up to 25% of the cost of the equipment not exceeding \$10,000 per project and all playground equipment grants may not exceed 5% of the total grants per year (see Definitions/Clarifications for how this will be calculated);
- Staffing or outside consultants except for costs for staffing or an outside consultant to design and implement an approved project based on the documented need of the applicant and the expenditures may not exceed 5% of the grant to a grantee if the grant exceeds \$250,000 and expenditures may not exceed 10% of the grant to a grantee if the grant is \$250,000 or less (see Definitions/Clarifications for how this will be calculated);
- A building except for a building that is included as part of a comprehensive conservation plan for a new or expanded recreational project (see Definitions/Clarifications for definition of comprehensive conservation plan and new or expanded recreational project); or
- A project in which the applicant is not directly involved in the execution and completion of the project.

The goal of the Industrial Commission is that at a minimum 15% of the funding received for a biennium will be given priority for recreation projects that meet Directive D.

The following projects are not eligible for funding, unless there is a finding of exceptional circumstances by the Industrial Commission include:

- Construction or refurbishment of indoor/outdoor ice rinks,
- Construction or refurbishment of indoor/outdoor athletic courts and sports fields,
- Other substantially similar facilities.
- Infrastructure that is not part of a comprehensive conservation plan.
- Projects not meeting a minimum funding request of \$2,500.

Budget Information

In-kind services used to match the request for Outdoor Heritage Fund dollars shall be valued as follows:

- Labor costs \$15.00 an hour
- Land costs Average rent costs for the county as shown in the most recent publication of the USDA, National Agricultural Statistics Services, North Dakota Field Office
- Permanent Equipment documentation Any equipment purchased must be listed separately with showing actual cost. (For example: playground equipment)
- Equipment usage Actual documentation
- Seed & Seedlings Actual documentation
- Transportation Mileage at federal rate
- Supplies & materials Actual documentation

More categories will be added as we better understand the types of applications that will be submitted. We will use as our basis for these standards other State and Federal programs

that have established rates. For example, the North Dakota Nonpoint Source Pollution Management Program has established rates. If your project includes work that has an established rate under another State Program, please use those rates and note your source.

Definitions/Clarifications:

Building - Defined as “A structure with a roof either with walls or without walls and is attached to the ground in a permanent nature.”

Comprehensive Conservation Plan - Defined as “A detailed plan that has been formally adopted by the governing board which includes goals and objectives--both short and long term, must show how this building will enhance the overall conservation goals of the project and the protection or preservation of wildlife and fish habitat or natural areas.” This does not need to be a complex multi-page document. It could be included as a part of the application or be an attachment.

New and Expanded Recreational Project means that the proposed building cannot be a replacement of a current building. The proposed building must also be related to either a new or expanded recreational project--either an expansion in land or an expansion of an existing building or in the opportunities for recreation at the project site.

Playground equipment calculation - Only the actual costs of the playground equipment (a bid or invoice showing the amount of the equipment costs must be provided) - cannot include freight or installation or surface materials or removal of old equipment, etc.

Staffing/Outside Consultants Costs - If you are requesting OHF funding for staffing or for an outside consultant, you must provide information in your application on the need for OHF funding to cover these costs. For example, if you are an entity that has engineering staff you must explain why you don't have sufficient staff to do the work or if specific expertise is needed or whatever the reason is for your entity to retain an outside consultant. If it is a request for reimbursement for staff time then a written explanation is required in the application of why OHF funding is needed to pay for the costs of that staff member(s)' time. **The budget form must reflect on a separate line item the specific amount that is being requested for staffing and/or the hiring of an outside consultant.** This separate line item will then be used to make the calculation of 5% or 10% as outlined in the law. Note that the calculation will be made on the grant less the costs for the consultant or staff.

Maintenance – Activities that preserve or keep infrastructure in a given existing condition, including repairs. Repair means to restore to sound condition after damage, to renew or refresh; except repairs due to damage caused by Acts of God.

Scoring of Grants

Oral Presentation. Please note that you will be given an opportunity to make a ten-minute Oral Presentation at a meeting of the Outdoor Heritage Fund Advisory Board. These presentations are strongly encouraged.

Open Record. Please note that your application and any attachments will be open records as defined by law and will be posted on the Industrial Commission/Outdoor Heritage Fund website.

All applications will be scored by the Outdoor Heritage Fund Advisory Board after your ten-minute oral presentation. The ranking form that will be used by the Board is available on the website at <http://www.nd.gov/ndic/outdoor-infopage.htm> .

Awarding of Grants

All decisions on requests will be reported to applicants no later than 30 days after Industrial Commission consideration. The Commission can set a limit on duration of an offer on each application or if there isn't a specific date indicated in the application for implementation of the project, then the applicant has until the next Outdoor Heritage Fund Advisory Board regular meeting to sign the contract and get the project underway or the commitment for funding will be terminated and the applicant may resubmit for funding. Applicants whose proposals have been approved will receive a contract outlining the terms and conditions of the grant.

Responsibility of Recipient

The recipient of any grant from the Industrial Commission must use the funds awarded for the specific purpose described in the grant application and in accordance with the contract. The recipient cannot use any of the funds for the purposes stated under Exemptions on the first page of this application.

If you have any questions about the application, the Commission can be reached at 701-328-3722 or outdoorheritage@nd.gov.

Revised: November 4, 2019, April 12, 2023

Williston Water World
Williston, North Dakota
July 14, 2023



| Description | Proposed Trade Partner | Total |
|------------------------------------|------------------------|-----------|
| General Conditions | JED | 953,829 |
| Winter Conditions Allowance | | 200,000 |
| Dewatering Allowance | | 50,000 |
| Final Cleaning | | 4,768 |
| Concrete Foundations & Slabs | Winn | 242,136 |
| Masonry | Hardscapes Plus | 228,910 |
| Structural Steel (Furnish) | TEK Steel | 52,000 |
| Structural Steel (Install) | | 20,716 |
| Wood Framing & Rough Carpentry | | 144,449 |
| Finish Carpentry | JED | 98,536 |
| Casework Supply | Sidney Millwork | 23,650 |
| Waterproofing | Quality Coatings | 7,400 |
| Metal Roofing & Soffit Panels | Herzog Roofing | 165,000 |
| Joint Sealants | | 17,699 |
| Doors, Frames, And Hardware Supply | | 24,667 |
| Coiling Counter Door | CS Doors | 8,996 |
| Glass And Glazing | Fargo Glass | 90,931 |
| Drywall | LS Drywall | 61,056 |
| Painting | Oxentenko | 58,000 |
| Wall Tile And Resilient Base | House of Color | 31,000 |
| Acoustical Ceilings | LS Drywall | 4,800 |
| Specialties Supply | Bartley | 48,485 |
| Flagpoles | | 8,573 |
| Site Furnishings | | 14,468 |
| Swimming Pools | Associated Pools | 2,879,000 |
| Window Treatments | Haugom | 6,427 |
| Plumbing | All Seasons | 286,220 |
| HVAC | Selid Mechanical | 205,000 |
| Electrical | Berger | 450,000 |
| Earthwork | Three Forks | 0 |
| Earthwork (aggregate material) | | 75,000 |
| Structural Excavation (building) | JMAC | 84,000 |
| Structural Excavation (pool) | Three Forks | 0 |
| Site Concrete | Winn | 457,775 |
| Pavement Markings | | 2,500 |
| Landscaping and Irrigation | Landscape Elements | 105,880 |
| Fencing | | 88,797 |
| Site Utilities | JMAC | 298,700 |

Subtotal 7,499,367

| | | |
|--------------------------|-------------------------|---------|
| Building Permit | Per City, no permit fee | 0 |
| Insurance | | 98,738 |
| Sub Default Program Rate | | 72,374 |
| Fee | | 228,580 |

Subtotal 7,899,059

Preconstruction Fee 39,495

Construction Contingency 238,157

JE Dunn Guaranteed Maximum Price \$8,176,711

Splashtacular Proposal 470,000

Thiel Brothers Roofing 117,480

WILLISTON WATER WORLD

Date: May 25, 2023

Current Budget Overview

Budget Summary

| | |
|---|---------------------|
| In the Bank | \$ 4,360,768 |
| Pledged (not including in-kind) paid by 2024 | \$ 3,958,717 |
| In Kind Towards Construction | \$ 50,000 |
| Budget Total | \$ 8,369,485 |
| Outstanding Grants | \$ 25,000 |
| Horizon Resources Hometown Pride Grant | \$ 100,000 |
| Marathon Oil (June 2023) | \$ 1,000,000 |
| Outdoor Heritage Fund Grant (August 2023) | \$ - |
| Farm Credit Services Grant (2023) | \$ 5,000 |
| 2023 Walmart (August 2023) | \$ 150,000 |
| STAR Grant Fund (2024-2026) (verbal guarantee by mayor) | \$ 500,000 |
| Bush Foundation Grant (July 2023) | \$ 169,999 |
| Engineer From Williston Grant (September 2022) | \$ - |
| John & Elaine Andrist Charitable Trust Grant | \$ 50,000 |
| Parks Renovation Grant (July 2023) | \$ 880,000 |
| Land & Water Conservation Fund Grant (May 2023) | \$ - |
| Williams County Grant (May 2023) | \$ - |
| Grant Total | \$ 2,909,999 |

| | |
|------------------------------|----------------------|
| Total Possible Amount | \$ 11,279,484 |
| A/E Fees | \$ 360,000 |
| A/E Fees Paid to Date | \$ (189,758) |
| Soft Costs | \$ 170,242 |
| Soil Investigation | In Kind |
| Site Survey | In Kind |
| Reimbursable Expenses | \$ (5,000) |
| Operational Costs (3 year) | \$ (13,000) |
| Owner Contingency | \$ 6,500 |
| FF&E | \$ 1,500,000 |
| Total Estimated Soft Costs | \$ 250,000 |
| Total Estimated Soft Costs | \$ 150,000 |
| Total Estimated Soft Costs | \$ 2,076,742 |

Highlighted indicates estimated costs or placeholders

Prepared by:
Emily Kreil, Project Designer
EAPC Architects Engineers, PC

CURRENT

Construction Cost Estimate - Phase One

| | |
|---|---------------------|
| Leisure Pool | \$ 2,275,000 |
| Waterslide Package B | \$ 672,572 |
| Spray/Play Feature Allowance | \$ 250,000 |
| Miscellaneous Site Work | \$ 1,933,625 |
| Buildings & Canopy's (3,916 SF) | \$ 2,395,236 |
| Phase One Subtotal (Includes CMAR fee 4.28%) | \$ 7,526,833 |
| Preconstruction Fee (0.5%) | \$ 37,634 |
| Construction Contingency (5.0%) | \$ 376,342 |
| Escalation to 2nd Qtr 2023 (1.0%) | \$ - |
| Construction Fee's + \$ Carried | \$ 413,976 |

Accepted Alternates

| | |
|------------------------------|---------------------|
| Total GMP (Phase One) | \$ 7,940,809 |
|------------------------------|---------------------|

| | |
|-----------------------------------|---------------------|
| A/E Fees | \$ 476,448 |
| Soft Costs | \$ 286,690 |
| A/E Fees Paid to Date | \$ (189,758) |
| Soil Investigation | \$ (5,000) |
| Site Survey | \$ (13,000) |
| Reimbursable Expenses | \$ 6,500 |
| Operational Costs (3 year) | \$ 1,500,000 |
| Owner Contingency (5%) | \$ 397,040 |
| FF&E | \$ 150,000 |
| Total Estimated Soft Costs | \$ 2,340,230 |

| | |
|--|----------------------|
| Total Project Costs (Phase One) | \$ 10,281,039 |
|--|----------------------|

| | |
|-----------------------|---------------------|
| Budgeted Total | \$ 8,369,485 |
|-----------------------|---------------------|

| | |
|---------------------------------------|----------------|
| Need to Raise | \$ (1,911,555) |
| Need To Raise (with 1 Yr Operational) | \$ (911,555) |

FUTURE

Phase Two or Change Order

| | |
|---------------------------------|---------------------|
| Lap Pool with Ninja Foundations | \$ 1,660,000 |
| NinjaCross Package | \$ 1,260,000 |
| Subtotal | \$ 2,920,000 |

| | |
|------------------------------|---------------------|
| CMAR Fee (4.28%) | \$ 124,976 |
| Total GMP (Phase Two) | \$ 3,044,976 |

| | |
|-----------------------------------|-------------------|
| A& E Fees (Phase 2 CD's) | ?? |
| Soft Costs | 95,000 |
| Owner Contingency (5%) | 50,000 |
| FF&E | 50,000 |
| Total Estimated Soft Costs | \$ 145,000 |

| | |
|--|---------------------|
| Total Project Costs (Phase Two) | \$ 3,189,976 |
|--|---------------------|

Aquatics Alternate Options

| | |
|---------------------------|--------------|
| Zero-Depth Entry | \$ 1,150,000 |
| Lazy River | \$ 1,000,000 |
| NinjaCross (Full Package) | \$ 1,102,000 |
| Waterslide Package A | \$ 625,000 |
| Waterslide Package C | \$ 785,000 |

AKA WHAT WE NEED TO BREAK GROUND!



QUALITY OF LIFE STRATEGIC EVENT FACILITY DEVELOPMENT AND IMPLEMENTATION STUDY

In Williams County, North Dakota

July 14, 2023



POTENTIAL DEVELOPMENT OPTIONS: Overview

 Youth/Amateur Sports

 Conventions/Meetings/
Gathering Space

 Concerts/
Entertainment Venues

 Tourism/Experiential




DEVELOPMENT OPTIONS: Youth/Amateur Sports

 Youth/Amateur Sports

 Meeting & Event Space

 Concerts/Entertainment

 Tourism/Experiential



YOUTH/AMATEUR SPORTS: Outdoor Aquatics

The Williston Community Builders have approached City of Williston and Williams County leadership with a proposal to develop a new Outdoor Aquatic Center consisting of a zero-depth entry pool, lap pool and waterslide complex. Currently, recreational swimming and competitive aquatic events in Williams County predominately occur at the Williston Area Recreation Center (ARC). At the time of the ARC's construction, the City retired the deteriorating E.J. Hagan Aquatic Center and Eckert Outdoor Pool, positioning the \$72 million fitness and recreation facility as the sole aquatics venue in the City of Williston. The Eckert Outdoor Pool was constructed and first opened in 1934 and, funded by a donation from the Eckert Foundation, underwent a significant renovation in 1990 to extend its useful life. The facility's permanent closure in 2014 was largely attributable to its aging equipment, structural concerns, lack of ADA compliance and limited size, making renovation or replacement at the site infeasible. The decision to close the Hagan Aquatic Center and Eckert Pool was also influenced by the lack of lifeguards available to staff both these pools in addition to the newly constructed ARC.

Since its opening in 2014, the ARC has provided the area community with an indoor, 50-meter Olympic-size swimming pool with 500 spectator seats, as well as a secondary teaching pool, zero-depth entry kids pool, lazy river and water slide. Historically, the ARC has hosted youth and high school swim tournaments, offered private swimming lessons, and has been used for open swim by its pass-holding members. Williams County residents within and proximate to the City of Tioga also have access to the Tioga Public Swimming Pool, a 25-yard, zero-depth entry outdoor pool. Community stakeholders have stated that the County has outgrown its current inventory of aquatic recreation spaces, prompting the proposal of Williston Water World to the City and County.



OUTDOOR AQUATICS: Potential Opportunity

In order to address the need for additional aquatics space in Williams County, the Williston Community Builders, a non-profit 501(c)(3) organization based in the City of Williston, proposed an Outdoor Aquatic Center project to the City of Williston and Williams County. The Community builders have recently been involved with other area developments including the Davidson Park playground and Splash Pad and the Freedom Monument. This new outdoor aquatics project, commonly referred to as Williston Water World, has been initiated with the following objectives:

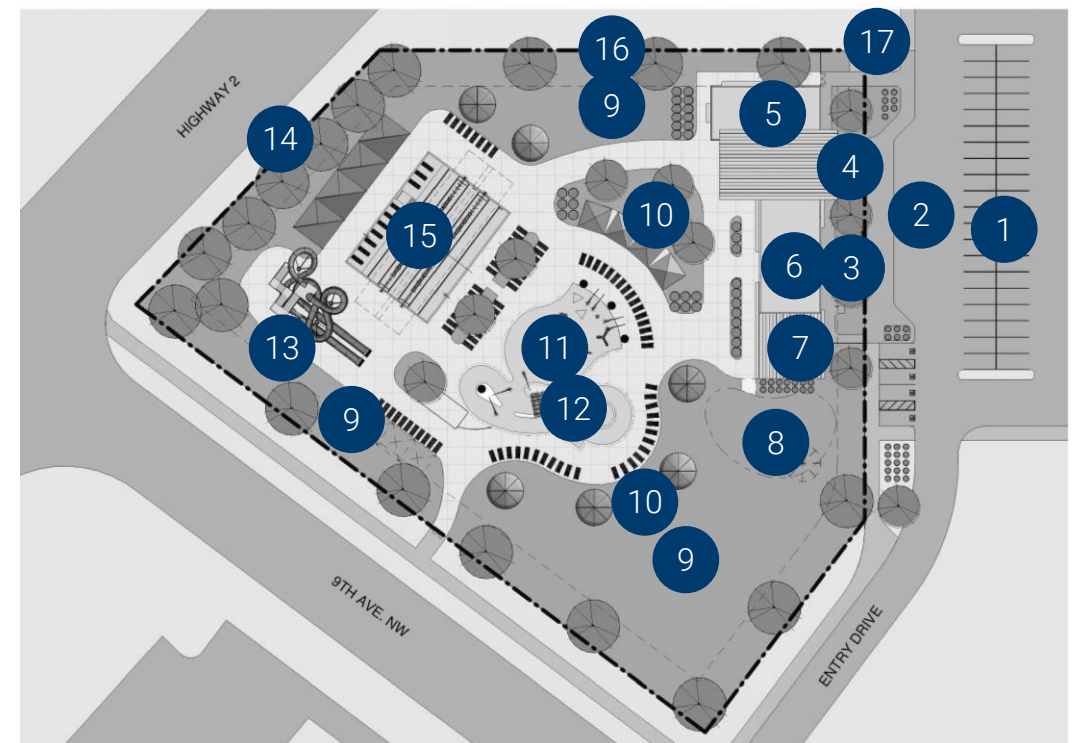
1. Create a safe, world-class, outdoor recreational aquatics destination for the region.
2. Provide an additional recreation option for the community at an affordable price.
3. Generate excitement in the community to drive participation, buy-in, and funding pledges.
4. Facilitate meaningful conversations with community stakeholders.

This proposed outdoor aquatic center will cover 2.3 acres near the intersection of Highway 2 and 9th Avenue Northwest. Across two phases, development of Williston Water World will include a 26,000-square foot bathhouse and concession stand, a zero-depth entry leisure pool with lazy river and water features, a two-slide water slide complex, and outdoor patio space with shade structures. A future second phase would add a 25-yard sport pool with foundations for a NinjaCross retractable obstacle course system. This new outdoor aquatic center will share parking with the adjacent Cutting Field Stadium and feature a dedicated drop-off lane as well as bike parking near its entrance. These amenities are further explored in the exhibit on the following page.



OUTDOOR AQUATICS: Williston Water World

- 1 Existing parking shared with Cutting Field Stadium
- 2 Drop-off lane
- 3 Bike parking
- 4 Entry plaza
- 5 Pool equipment / storage – 1,820 sf
- 6 Bathhouse / concessions – 26,220 sf
- 7 Outdoor patio
- 8 Kids play / dry amenities
- 9 Sunning / open space / future expansion
- 10 Shade structures / umbrellas
- 11 Zero-depth entry leisure pool, water features
- 12 Lazy river, water features, bubble pit, social areas
- 13 Water slides complex with (2) flumes and runouts
- 14 Natural screen / Landscaping
- 15 Sport pool, lap lanes, NinjaCross obstacle course
- 16 Fence line
- 17 Trash enclosure



Source: Williston Community Builders, 2023.

OUTDOOR AQUATICS: Weather Patterns

A key consideration in the development of any outdoor aquatic center is the climate of the local area, particularly for usage during times of extreme temperatures or excessive precipitation. The chart to the right summarizes the average monthly maximum and minimum temperatures, as well as precipitation and snowfall levels, for the City of Williston from 1991 through 2020.

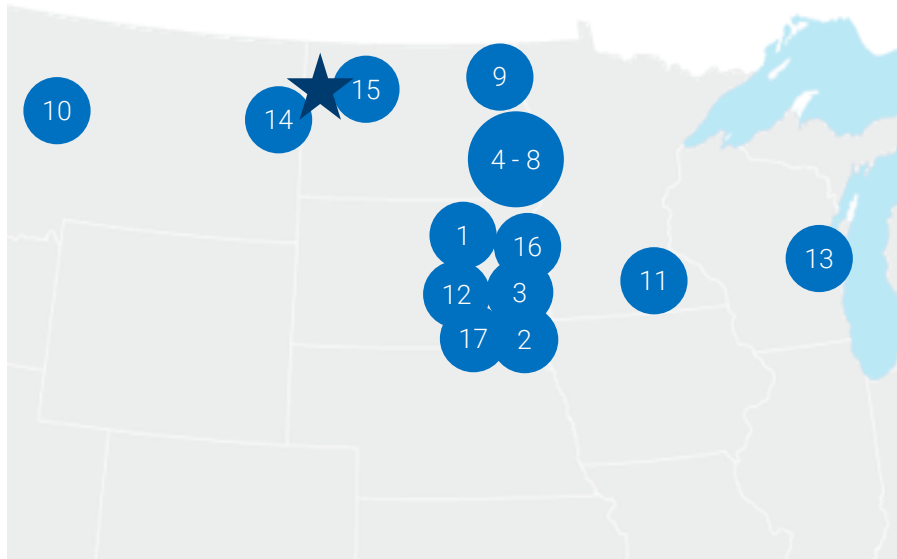
Overall, Williston has a cool to temperate climate with annual temperatures averaging 41 degrees, dropping below 40 degrees on average from November through March. An outdoor aquatic center developed in Williston would operate during the months of June, July, and August, where average temperatures range from 64 to 70 degrees.

| Climate Normals - Williston, North Dakota | | | | | |
|---|------------------|-------------|-------------|------------------|------------|
| MONTH | Temperature (*F) | | | Average (inches) | |
| | MINIMUM | MAXIMUM | AVERAGE | PERCIPITATION | SNOWFALL |
| January | 1.0 | 22.1 | 11.6 | 0.6 | 11.2 |
| February | 5.5 | 26.7 | 16.1 | 0.5 | 6.7 |
| March | 17.5 | 40.1 | 28.8 | 0.6 | 6.4 |
| April | 29.2 | 55.6 | 42.4 | 1.1 | 3.7 |
| May | 40.2 | 67.4 | 53.8 | 2.1 | 0.9 |
| June | 50.2 | 76.7 | 63.5 | 2.6 | 0.0 |
| July | 56.3 | 84.5 | 70.4 | 2.5 | 0.0 |
| August | 54.0 | 83.9 | 69.0 | 1.6 | 0.0 |
| September | 43.5 | 72.6 | 58.0 | 1.4 | 0.0 |
| October | 30.4 | 55.9 | 43.2 | 0.9 | 2.6 |
| November | 17.1 | 38.4 | 27.8 | 0.7 | 6.3 |
| December | 6.1 | 26.1 | 16.1 | 0.6 | 10.4 |
| Annual | 29.3 | 54.2 | 41.7 | 1.3 | 4.0 |

Source: National Oceanic and Atmospheric Administration, 1991-2020.

OUTDOOR AQUATICS: Comparable Outdoor Aquatic Centers

We reviewed comparable outdoor aquatic centers in markets of similar size and/or geographic positioning to the greater Williston area to provide a deeper understanding into the difference in operational and financial activity among the various types of facilities. Each aquatic center reviewed was selected based on its program of aquatic facilities, opening year or year of recent significant renovation, and geographic positioning. The following list contains 17 identified outdoor aquatic centers and the specific program of aquatic facilities offered at each facility.



| Facility | City, State | Year Opened / Year Renovated | Zero Depth Entry | Water Slide Complex | Diving Well / Deep End | Current Channel | Splash Pad | Lap Pool | # of Lanes in Lap Pool | Concessions |
|-----------------------|--------------------------------------|------------------------------|------------------|---------------------|------------------------|-----------------|------------|----------|------------------------|-------------|
| 1 | Aberdeen Aquatic Center | Aberdeen, SD | 2007 | x | x | x | x | x | 8 | x |
| 2 | Brandon Municipal Pool | Brandon, SD | 2004 / 2020 | x | x | x | | x | 6 | |
| 3 | Hillcrest Aquatic Center | Brookings, SD | 2006 | x | x | x | | x | 8 | x |
| 4 | Davies Recreational Pool | Fargo, ND | 2012 | x | x | | | | | x |
| 5 | Island Park Swimming Pool | Fargo, ND 2 | 1977/2025* | | | x | | x | 8 | |
| 6 | Madison Pool & Splash Pad | Fargo, ND 3 | 1970/2008 | | | | x | x | n/a | |
| 7 | Roger G. Gress Northside Pool | Fargo, ND 4 | 1997 | x | x | | | | | |
| 8 | Southwest Recreational Pool | Fargo, ND 5 | 2000 | x | x | | | | | |
| 9 | Leistikow Park Outdoor Swimming Pool | Grafton, ND | 1950/1980 | | | x | | x | 8 | x |
| 10 | Last Chance Splash Waterpark & Pool | Helena, MT | 1953 / 2009 | x | x | x | x | x | 8 | x |
| 11 | Kasson Aquatic Center | Kasson, MN | 1942 / 2015 | x | x | x | | x | 6 | x |
| 12 | Mitchell Aquatic Center | Mitchell, SD | 2018 | x | x | x | | x | 6 | x |
| 13 | Pollock Community Water Park | Oshkosh, WI | 1960/2006 | x | x | x | x | x | 6 | x |
| 14 | Sidney Svarre Municipal Pool | Sidney, MT | 1993 | | x | x | | x | 8 | |
| 15 | Tioga Public Swimming Pool | Tioga, ND | TBC | x | | x | | x | 4 | |
| 16 | Family Aquatic Center | Watertown, SD | 2006 | x | x | x | x | x | 6 | x |
| 17 | Huether Family Aquatics Center | Yankton, SD | 2021 | x | x | x | x | x | 8 | x |
| Williston Water World | | | Williston, ND | x | x | | x | x | 6 | x |

Note: (1) Island Park Pool is undergoing a two-year master plan project to update the existing aquatic center by adding a 50-meter competition pool with diving boards and diving platform, a lifestyle pool, current channel, and water slide complex.
Source: Facility management, 2023.

OUTDOOR AQUATICS: Utilization Analysis – Total Population

We collected utilization data from 13 comparable outdoor aquatic centers for annual days of operations, as well as total annual and average daily attendance. We then compared these data with City population and population within 15- and 30-minutes of the analyzed outdoor aquatic centers. As shown, the average comparable outdoor aquatic center is open for approximately 77 days annually, attracting an average of more than 28,000 annual attendees (364 daily attendees over 77 day season). Average annual and daily visitors per population metrics were then calculated, as presented below.

| | City, State | Days Open | Yearly Attendance (persons) | Daily Attendance (persons) | City Population (persons) | 15-minute Population (persons) | 30-minute Population (persons) | Annual Attendees Per City Population (000's) | Annual Attendees Per 15-minute Population (000's) | Annual Attendees Per 30-minute Population (000's) | Daily Attendees Per City Population (000's) | Daily Attendees Per 15-minute Population (000's) | Daily Attendees Per 30-minute Population (000's) |
|----|---------------|-----------|-----------------------------|----------------------------|---------------------------|--------------------------------|--------------------------------|--|---|---|---|--|--|
| 1 | Aberdeen, SD | 78 | 55,188 | 708 | 28,496 | 30,963 | 36,996 | 1.94 | 1.78 | 1.49 | 0.025 | 0.023 | 0.019 |
| 2 | Brandon, SD | 83 | 26,000 | 313 | 11,186 | 48,381 | 275,847 | 2.32 | 0.54 | 0.09 | 0.028 | 0.006 | 0.001 |
| 4 | Fargo, ND | 83 | 38,450 | 463 | 132,054 | 122,011 | 241,698 | 0.29 | 0.32 | 0.16 | 0.004 | 0.004 | 0.002 |
| 5 | Fargo, ND 2 | 83 | 19,581 | 236 | 132,054 | 193,447 | 244,966 | 0.15 | 0.10 | 0.08 | 0.002 | 0.001 | 0.001 |
| 6 | Fargo, ND 3 | 76 | 2,579 | 34 | 132,054 | 208,476 | 244,350 | 0.02 | 0.01 | 0.01 | 0.000 | 0.000 | 0.000 |
| 7 | Fargo, ND 4 | 76 | 10,641 | 140 | 132,054 | 150,995 | 241,970 | 0.08 | 0.07 | 0.04 | 0.001 | 0.001 | 0.001 |
| 8 | Fargo, ND 5 | 76 | 15,302 | 201 | 132,054 | 210,664 | 246,395 | 0.12 | 0.07 | 0.06 | 0.002 | 0.001 | 0.001 |
| 10 | Helena, MT | 59 | 20,000 | 339 | 32,944 | 58,992 | 72,324 | 0.61 | 0.34 | 0.28 | 0.010 | 0.006 | 0.005 |
| 11 | Kasson, MN | 81 | 24,300 | 300 | 7,057 | 21,865 | 193,185 | 3.44 | 1.11 | 0.13 | 0.043 | 0.014 | 0.002 |
| 12 | Mitchell, SD | 80 | 19,669 | 246 | 15,742 | 18,502 | 27,585 | 1.25 | 1.06 | 0.71 | 0.016 | 0.013 | 0.009 |
| 13 | Oshkosh, WI | 67 | 33,104 | 494 | 66,796 | 85,817 | 391,265 | 0.50 | 0.39 | 0.08 | 0.007 | 0.006 | 0.001 |
| 16 | Watertown, SD | 76 | 33,406 | 440 | 23,055 | 24,733 | 33,388 | 1.45 | 1.35 | 1.00 | 0.019 | 0.018 | 0.013 |
| 17 | Yankton, SD | 86 | 67,000 | 779 | 15,476 | 20,608 | 33,360 | 4.33 | 3.25 | 2.01 | 0.050 | 0.038 | 0.023 |
| | LOW | 59 | 2,579 | 34 | | | | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 |
| | HIGH | 86 | 67,000 | 779 | | | | 4.33 | 3.25 | 2.01 | 0.05 | 0.04 | 0.02 |
| | AVERAGE | 77 | 28,094 | 361 | 66,200 | 92,000 | 175,600 | 1.27 | 0.80 | 0.47 | 0.02 | 0.01 | 0.01 |
| | MEDIAN | 78 | 24,300 | 313 | 32,900 | 59,000 | 241,700 | 0.61 | 0.39 | 0.13 | 0.01 | 0.01 | 0.00 |
| | Williston, ND | | | | 30,007 | 32,142 | 36,326 | | | | | | |

Source: Facility management, Esri, 2023.

OUTDOOR AQUATICS: Utilization Analysis – Youth Population

The same utilization data outlined prior, which includes annual days of operations, annual and average daily attendance for 13 comparable aquatic facilities, is included in the exhibit below. These data have been compared against the youth population (age 18 and under) within City and 15- and 30-minute drivetimes of those identified facilities. These ratios will be utilized later here in to extrapolate estimates of daily and annual attendance for an Outdoor Aquatic Center in Williston.

| | City, State | Days Open | Yearly Attendance (persons) | Daily Attendance (persons) | City Youth Population (persons) | 15-minute Youth Population (persons) | 30-minute Youth Population (persons) | Annual Attendees Per City Youth Population (000's) | Annual Attendees Per 15-minute Youth Population (000's) | Annual Attendees Per 30-minute Youth Population (000's) | Daily Attendees Per City Youth Population (000's) | Daily Attendees Per 15-minute Youth Population (000's) | Daily Attendees Per 30-minute Youth Population (000's) |
|----|---------------|-----------|-----------------------------|----------------------------|---------------------------------|--------------------------------------|--------------------------------------|--|---|---|---|--|--|
| 1 | Aberdeen, SD | 78 | 55,188 | 708 | 6,405 | 7,017 | 8,382 | 8.62 | 7.86 | 6.58 | 0.110 | 0.101 | 0.084 |
| 2 | Brandon, SD | 83 | 26,000 | 313 | 3,505 | 13,076 | 72,831 | 7.42 | 1.99 | 0.36 | 0.089 | 0.024 | 0.004 |
| 4 | Fargo, ND | 83 | 38,450 | 463 | 28,289 | 29,949 | 56,340 | 1.36 | 1.28 | 0.68 | 0.016 | 0.015 | 0.008 |
| 5 | Fargo, ND 2 | 83 | 19,581 | 236 | 28,289 | 42,386 | 57,314 | 0.69 | 0.46 | 0.34 | 0.008 | 0.006 | 0.004 |
| 6 | Fargo, ND 3 | 76 | 2,579 | 34 | 28,289 | 47,107 | 57,099 | 0.09 | 0.05 | 0.05 | 0.001 | 0.001 | 0.001 |
| 7 | Fargo, ND 4 | 76 | 10,641 | 140 | 28,289 | 30,769 | 56,475 | 0.38 | 0.35 | 0.19 | 0.005 | 0.005 | 0.002 |
| 8 | Fargo, ND 5 | 76 | 15,302 | 201 | 28,289 | 47,884 | 57,711 | 0.54 | 0.32 | 0.27 | 0.007 | 0.004 | 0.003 |
| 10 | Helena, MT | 59 | 20,000 | 339 | 6,494 | 13,088 | 16,175 | 3.08 | 1.53 | 1.24 | 0.052 | 0.026 | 0.021 |
| 11 | Kasson, MN | 81 | 24,300 | 300 | 2,029 | 5,913 | 48,492 | 11.98 | 4.11 | 0.50 | 0.148 | 0.051 | 0.006 |
| 12 | Mitchell, SD | 80 | 19,669 | 246 | 3,602 | 4,284 | 6,489 | 5.46 | 4.59 | 3.03 | 0.068 | 0.057 | 0.038 |
| 13 | Oshkosh, WI | 67 | 33,104 | 494 | 12,844 | 16,907 | 87,106 | 2.58 | 1.96 | 0.38 | 0.038 | 0.029 | 0.006 |
| 16 | Watertown, SD | 76 | 33,406 | 440 | 5,512 | 5,933 | 8,267 | 6.06 | 5.63 | 4.04 | 0.080 | 0.074 | 0.053 |
| 17 | Yankton, SD | 86 | 67,000 | 779 | 3,345 | 4,419 | 7,022 | 20.03 | 15.16 | 9.54 | 0.233 | 0.176 | 0.111 |
| | LOW | 59 | 2,579 | 34 | | | | 0.09 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 |
| | HIGH | 86 | 67,000 | 779 | | | | 20.03 | 15.16 | 9.54 | 0.23 | 0.18 | 0.11 |
| | AVERAGE | 77 | 28,094 | 361 | 14,200 | 20,700 | 41,500 | 5.25 | 3.48 | 2.09 | 0.07 | 0.04 | 0.03 |
| | MEDIAN | 78 | 24,300 | 313 | 6,500 | 13,100 | 56,300 | 3.08 | 1.96 | 0.50 | 0.05 | 0.03 | 0.01 |
| | Williston, ND | | | | 6,790 | 7,311 | 8,271 | | | | | | |

Source: Facility management, Esri, 2023.

OUTDOOR AQUATICS: Utilization Extrapolation Analysis

Based on the calculated average daily and annual visitors per population presented on the previous page, an extrapolation analysis was conducted based on the City, 15-minute and 30-minute drivetime populations of Williston and the area surrounding a proposed new Williston Water World outdoor aquatic center. As shown below, daily attendance ranges from 217 to 476 people, based on the average daily attendance among comparable outdoor aquatic centers. Assuming Water World would be open for 77 days (the average number of days of operation among comparable outdoor aquatic centers analyzed), this would translate to approximately 16,700 to 36,700 annual attendees, based on the population of Williston and the area surrounding a proposed new outdoor aquatic center. An additional extrapolation analysis was conducted using City, 15-minute and 30-minute drivetime youth populations (age 18 and under), presenting a similar range of estimated daily and annual attendance.

In the January 2023 Expense Analysis of Williston Water World performed by Counsilman-Hunsaker, an estimated 35,156 member/daily swims was projected, which is above the average and median number of annual visitors extrapolated based on the 15-minute population surrounding Water World.

| EXTRAPOLATION ANALYSIS OF AVERAGE DAILY ATTENDANCE | | | |
|--|------------------------------|-----------------------------------|-----------------------------------|
| | City Population (persons) | 15-minute Population (persons) | 30-minute Population (persons) |
| Williston, ND | 30,007 | 32,142 | 36,326 |
| LOW | 8 | 5 | 5 |
| HIGH | 1,511 | 1,215 | 848 |
| AVERAGE | 476 | 323 | 217 |
| MEDIAN | 309 | 185 | 56 |

| EXTRAPOLATION ANALYSIS OF AVERAGE ANNUAL ATTENDANCE | | | |
|---|------------------------------|-----------------------------------|-----------------------------------|
| | City Population (persons) | 15-minute Population (persons) | 30-minute Population (persons) |
| Williston, ND | 30,007 | 32,142 | 36,326 |
| LOW | 594 | 403 | 388 |
| HIGH | 116,314 | 93,563 | 65,322 |
| AVERAGE | 36,647 | 24,840 | 16,698 |
| MEDIAN | 23,775 | 14,249 | 4,344 |

| EXTRAPOLATION ANALYSIS OF AVERAGE DAILY YOUTH ATTENDANCE | | | |
|--|------------------------------|-----------------------------------|-----------------------------------|
| | City Population (persons) | 15-minute Population (persons) | 30-minute Population (persons) |
| Williston, ND | 6,790 | 7,311 | 8,271 |
| LOW | 8 | 5 | 5 |
| HIGH | 1,581 | 1,289 | 918 |
| AVERAGE | 448 | 320 | 218 |
| MEDIAN | 354 | 189 | 51 |

| EXTRAPOLATION ANALYSIS OF AVERAGE ANNUAL YOUTH ATTENDANCE | | | |
|---|------------------------------|-----------------------------------|-----------------------------------|
| | City Population (persons) | 15-minute Population (persons) | 30-minute Population (persons) |
| Williston, ND | 6,790 | 7,311 | 8,271 |
| LOW | 627 | 406 | 378 |
| HIGH | 121,770 | 99,248 | 70,658 |
| AVERAGE | 34,477 | 24,637 | 16,776 |
| MEDIAN | 27,291 | 14,580 | 3,940 |

Source: Facility management, Esri, 2023.

OUTDOOR AQUATICS: Financial Analysis

Additionally, we collected financial operating statements from 16 comparable outdoor aquatic centers. Data on operating revenue, expenses and net profit/(loss) has been compiled and analyzed. As shown, the average outdoor aquatic center generated approximately \$169,800 in annual revenue and incurred \$263,900 in operating expenses for a net operating loss of approximately \$94,100, annually. This translates to an estimated 58 percent coverage ratio of revenue to expense. On average, approximately 39 percent of revenue generated among comparable center was from daily pass sales, while 41 percent came from annual membership sales and 20 percent from other revenue sources, including concessions revenue, rentals, and merchandise. Based on the 2023 Expense Analysis developed by Cousilman-Hunsaker, Williston Water World is projected to incur approximately \$637,900 in annual operating expenses, which based on the average coverage ratio would require generation of approximately \$368,400 in annual operating revenue.

| SUMMARY OF COMPARABLE AQUATIC CENTER ANNUAL FINANCIAL OPERATIONS | | | | | | | |
|--|-------------------|--------------------|---------------------|----------------|--|--|----------------------------|
| Aquatic Center | Operating Revenue | Operating Expenses | Net Profit / (Loss) | Coverage Ratio | Revenue from Daily Passes (Percentage) | Revenue from Membership Sales (Percentage) | Other Revenue (Percentage) |
| Comp AC 1 | \$112,340 | \$224,183 | (\$111,843) | 50% | 39% | 45% | 16% |
| Comp AC 2 | \$12,078 | \$59,868 | (\$47,790) | 20% | 34% | 31% | 35% |
| Comp AC 3 | \$40,949 | \$105,291 | (\$64,342) | 39% | 25% | 75% | 0% |
| Comp AC 4 | \$90,589 | \$218,503 | (\$127,913) | 41% | 46% | 26% | 27% |
| Comp AC 5 | \$244,611 | \$231,831 | \$12,780 | 106% | 50% | 28% | 22% |
| Comp AC 6 | \$272,039 | \$317,051 | (\$45,012) | 86% | 32% | 44% | 24% |
| Comp AC 7 | \$103,435 | \$269,349 | (\$165,914) | 38% | 20% | 52% | 28% |
| Comp AC 8 | \$148,768 | \$391,626 | (\$242,858) | 38% | 39% | 29% | 32% |
| Comp AC 9 | \$44,964 | \$76,932 | (\$31,969) | 58% | 29% | 32% | 38% |
| Comp AC 10 | \$198,437 | \$304,496 | (\$106,059) | 65% | 31% | 62% | 7% |
| Comp AC 11 | \$205,172 | \$311,033 | (\$105,861) | 66% | n/a | n/a | n/a |
| Comp AC 12 | \$84,174 | \$273,659 | (\$189,486) | 31% | 51% | 43% | 6% |
| Comp AC 13 | \$60,230 | \$153,705 | (\$93,475) | 39% | 46% | 31% | 23% |
| Comp AC 14 | \$544,197 | \$601,067 | (\$56,870) | 91% | 35% | 45% | 19% |
| Comp AC 15 | \$167,535 | \$260,065 | (\$92,529) | 64% | 75% | 25% | 0% |
| Comp AC 16 | \$386,976 | \$424,232 | (\$37,256) | 91% | 37% | 41% | 21% |
| LOW | \$12,078 | \$59,868 | (\$242,858) | 20% | 20% | 25% | 0% |
| HIGH | \$544,197 | \$601,067 | \$12,780 | 106% | 75% | 75% | 38% |
| AVERAGE | \$169,800 | \$263,900 | (\$94,100) | 58% | 39% | 41% | 20% |
| MEDIAN | \$130,600 | \$264,700 | (\$93,000) | 54% | 37% | 41% | 22% |
| Williston Water World | | \$637,919 | (\$637,919) | | | | |

Note: Williston Water World operating expenses based on January 2023 Expense Analysis of Williston Water World performed by Cousilman-Hunsaker.
Source: Facility management, 2023.

OUTDOOR AQUATICS: Daily Pass Pricing

Day-pass pricing information among comparable outdoor aquatic centers was collected and is presented below. As shown, all but one of the comparable centers for which data was collected offer free passes for children under two years old. Eight (8) centers offer free passes for children under two, and three more each offer free admittance to children under the age of three and four, respectively. On average, comparable centers charge \$5.55 per day entry fees for children and adults, regardless of resident status. Only the Last Chance Splash Waterpark and Pool in Helena, Montana charges increased rates for non-residents (a total of \$1.00 difference between residents and non-residents).

| SUMMARY OF COMPARABLE AQUATIC CENTER DAILY PASS RATES | | | | | | | | |
|---|-----------------|------|-------------|-------------|--------------|--------------|-------------|--------------|
| | Aquatic Centers | Free | Resident | | | Non Resident | | |
| | | | Daily Child | Daily Adult | Daily Senior | Daily Child | Daily Adult | Daily Senior |
| 1 | Aberdeen, SD | <2 | \$6.00 | \$8.00 | \$7.00 | \$6.00 | \$8.00 | \$7.00 |
| 2 | Brandon, SD | None | \$4.00 | \$5.00 | \$4.00 | \$4.00 | \$5.00 | \$4.00 |
| 3 | Brookings, SD | <2 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 |
| 4 | Fargo, ND | <2 | \$4.25 | \$5.50 | \$5.50 | \$4.25 | \$5.50 | \$5.50 |
| 5 | Fargo, ND 2 | <2 | \$3.25 | \$4.50 | \$4.50 | \$3.25 | \$4.50 | \$4.50 |
| 6 | Fargo, ND 3 | <2 | \$3.25 | \$4.50 | \$4.50 | \$3.25 | \$4.50 | \$4.50 |
| 7 | Fargo, ND 4 | <2 | \$4.25 | \$5.50 | \$5.50 | \$4.25 | \$5.50 | \$5.50 |
| 8 | Fargo, ND 5 | <2 | \$4.25 | \$5.50 | \$5.50 | \$4.25 | \$5.50 | \$5.50 |
| 9 | Grafton, ND | n/a | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 |
| 10 | Helena, MT | <4 | \$4.00 | \$5.00 | \$4.00 | \$5.00 | \$6.00 | \$5.00 |
| 11 | Kasson, MN | <4 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 |
| 12 | Mitchell, SD | <3 | \$6.00 | \$6.00 | \$6.00 | \$6.00 | \$6.00 | \$6.00 |
| 13 | Oshkosh, WI | <3 | \$4.50 | \$5.50 | \$3.50 | \$4.50 | \$5.50 | \$3.50 |
| 14 | Sidney, MT | <3 | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 | \$5.00 |
| 15 | Tioga, ND | n/a | \$4.00 | \$4.00 | \$4.00 | \$4.00 | \$4.00 | \$4.00 |
| 16 | Watertown, SD | <2 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 | \$7.00 |
| 17 | Yankton, SD | <4 | \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$10.00 | \$10.00 |
| AVERAGE | | | \$5.22 | \$5.88 | \$5.59 | \$5.28 | \$5.94 | \$5.65 |
| MEDIAN | | | \$4.50 | \$5.50 | \$5.50 | \$5.00 | \$5.50 | \$5.50 |

Source: Facility management, 2023.

OUTDOOR AQUATICS: Membership Pass Pricing

Similarly, annual individual membership pricing information was gathered among comparable outdoor aquatic centers. As shown, the average comparable outdoor aquatic center charges \$68.24 for an annual child membership, \$77.72 for an adult membership and \$74.19 for a senior membership. Three centers charge a higher annual membership rate to non-residents, which on average is approximately 25 percent higher than the resident membership price.

| SUMMARY OF COMPARABLE AQUATIC CENTER DAILY PASS RATES | | | | | | | |
|---|-----------------|------------|------------|-------------|--------------|------------|-------------|
| | Aquatic Centers | Resident | | | Non Resident | | |
| | | Pass Child | Pass Adult | Pass Senior | Pass Child | Pass Adult | Pass Senior |
| 1 | Aberdeen, SD | \$65.00 | \$95.00 | \$75.00 | \$65.00 | \$95.00 | \$75.00 |
| 2 | Brandon, SD | \$40.00 | \$50.00 | \$40.00 | \$40.00 | \$50.00 | \$40.00 |
| 3 | Brookings, SD | \$70.00 | \$70.00 | \$70.00 | \$70.00 | \$70.00 | \$70.00 |
| 4 | Fargo, ND | \$69.00 | \$87.25 | \$87.25 | \$69.00 | \$87.25 | \$87.25 |
| 5 | Fargo, ND 2 | \$69.00 | \$87.25 | \$87.25 | \$69.00 | \$87.25 | \$87.25 |
| 6 | Fargo, ND 3 | \$69.00 | \$87.25 | \$87.25 | \$69.00 | \$87.25 | \$87.25 |
| 7 | Fargo, ND 4 | \$69.00 | \$87.25 | \$87.25 | \$69.00 | \$87.25 | \$87.25 |
| 8 | Fargo, ND 5 | \$69.00 | \$87.25 | \$87.25 | \$69.00 | \$87.25 | \$87.25 |
| 9 | Grafton, ND | \$82.00 | \$82.00 | \$82.00 | \$82.00 | \$82.00 | \$82.00 |
| 10 | Helena, MT | \$75.00 | \$95.00 | \$75.00 | \$90.00 | \$130.00 | \$90.00 |
| 11 | Kasson, MN | \$100.00 | \$100.00 | \$100.00 | \$125.00 | \$125.00 | \$125.00 |
| 12 | Mitchell, SD | \$84.00 | \$84.00 | \$84.00 | \$84.00 | \$84.00 | \$84.00 |
| 13 | Oshkosh, WI | \$60.00 | \$70.00 | \$60.00 | \$75.00 | \$85.00 | \$75.00 |
| 14 | Sidney, MT | \$40.00 | \$40.00 | \$40.00 | \$40.00 | \$40.00 | \$40.00 |
| 15 | Tioga, ND | \$60.00 | \$60.00 | \$60.00 | \$60.00 | \$60.00 | \$60.00 |
| 16 | Watertown, SD | \$75.00 | \$75.00 | \$75.00 | \$75.00 | \$75.00 | \$75.00 |
| 17 | Yankton, SD | \$64.00 | \$64.00 | \$64.00 | \$64.00 | \$64.00 | \$64.00 |
| | AVERAGE | \$68.24 | \$77.72 | \$74.19 | \$71.47 | \$82.13 | \$77.43 |
| | MEDIAN | \$69.00 | \$84.00 | \$75.00 | \$69.00 | \$85.00 | \$82.00 |

Source: Facility management, 2023.

OUTDOOR AQUATICS: Family Pass Pricing

Finally, family membership pricing information was gathered among comparable outdoor aquatic centers. As shown, the average comparable outdoor aquatic center charges \$173.34 for an annual four-person family membership, \$182.37 for a five-person family membership and \$188.43 for a six-person family membership. Four aquatic centers in the comparison set charge more for family passes depending on the number of persons utilizing the pass.

| SUMMARY OF COMPARABLE AQUATIC CENTER FAMILY PASS RATES | | | | |
|--|-----------------|------------------|------------------|------------------|
| | Aquatic Centers | Resident | | |
| | | Family of 4 Pass | Family of 5 Pass | Family of 6 Pass |
| 1 | Aberdeen, SD | \$165.00 | \$165.00 | \$165.00 |
| 2 | Brandon, SD | n/a | n/a | n/a |
| 3 | Brookings, SD | \$185.00 | \$210.00 | \$235.00 |
| 4 | Fargo, ND | \$183.50 | \$183.50 | \$183.50 |
| 5 | Fargo, ND 2 | \$183.50 | \$183.50 | \$183.50 |
| 6 | Fargo, ND 3 | \$183.50 | \$183.50 | \$183.50 |
| 7 | Fargo, ND 4 | \$183.50 | \$183.50 | \$183.50 |
| 8 | Fargo, ND 5 | \$183.50 | \$183.50 | \$183.50 |
| 9 | Grafton, ND | \$165.00 | \$165.00 | \$165.00 |
| 10 | Helena, MT | \$220.00 | \$220.00 | \$220.00 |
| 11 | Kasson, MN | \$200.00 | \$200.00 | \$200.00 |
| 12 | Mitchell, SD | \$167.00 | \$167.00 | \$167.00 |
| 13 | Oshkosh, WI | \$145.00 | \$161.00 | \$177.00 |
| 14 | Sidney, MT | \$150.00 | \$170.00 | \$190.00 |
| 15 | Tioga, ND | \$160.00 | \$160.00 | \$160.00 |
| 16 | Watertown, SD | \$200.00 | \$200.00 | \$230.00 |
| 17 | Yankton, SD | \$99.00 | n/a | n/a |
| AVERAGE | | \$173.34 | \$182.37 | \$188.43 |
| MEDIAN | | \$183.50 | \$183.50 | \$183.50 |

Source: Facility management, 2023.

OUTDOOR AQUATICS: Summary

We have further analyzed the capacity of a potential new Outdoor Aquatic Center in Williston to achieve the revenue benchmarks required to maintain a coverage ratio consistent with comparable outdoor aquatic centers identified. As shown below, assuming an operating budget of \$627,900 as projected in Counsilman-Hunsaker’s Expense Analysis from January 2023, and a coverage ratio of 58 percent, Williston Water World would need to generate approximately \$368,400 in annual revenue.

Based on an average of comparable outdoor aquatic centers analyzed, approximately 39 percent of annual revenue is generated through daily pass sales, 41 percent through annual membership sales, and 20 percent through other revenue sources, including concession revenue, private rentals, merchandise, etc. Assuming a daily pass rate of \$5.55 and an annual membership rate of \$72.98 (based on the average comparable outdoor aquatic centers analyzed), Williston Water World would need to sell approximately 26,100 daily passes (or approximately 339 per day over the course of a 77-day season), and just over 2,000 annual memberships to achieve revenue targets based on the allocated percentage of daily pass versus annual membership revenue generated. This would require Williston Water World to generate approximately \$73,500 in other annual revenue.

However, based on Counsilman-Hunsaker’s Expense Analysis, annual concessions revenue was projected at approximately \$17,600. If we were to assume this level of ‘Other’ revenue, it would require slightly higher revenue generation among daily pass and annual membership sales. To achieve these higher revenue targets, maintaining \$5.55 per pass for daily use and \$72.98 per annual membership, this would require approximately 31,000 daily passes (of approximately 409 per day over a 77-day season) and 2,400 annual memberships sold.

| UTILIZATION ESTIMATES TO ACHIEVE REVENUE BENCHMARKS | | | |
|---|--------------|--------------------|----------|
| Based on Percentage of Revenue Split | | | |
| Type | Daily Passes | Annual Memberships | Other |
| Percentage of Revenue | 39% | 41% | 20% |
| Target Revenue | \$144,878 | \$150,040 | \$73,496 |
| Fee | \$5.55 | \$72.98 | n/a |
| Units Sold | 26,104 | 2,056 | n/a |

| UTILIZATION ESTIMATES TO ACHIEVE REVENUE BENCHMARKS | | | |
|---|--------------|--------------------|----------|
| Based on Budgeted F&B Revenue Estimate | | | |
| Type | Daily Passes | Annual Memberships | Other |
| Percentage of Revenue | 39% | 41% | n/a |
| Target Revenue | \$172,348 | \$178,488 | \$17,578 |
| Fee | \$5.55 | \$72.98 | n/a |
| Units Sold | 31,054 | 2,446 | n/a |

Source: Facility management, Counsilman-Hunsaker Expense Analysis, 2023.

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CLIENT
**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

ISSUE DATAS

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620

DRAWN BY: EK

CHECKED BY: BD

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STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
FIRST FLOOR PLAN

A201

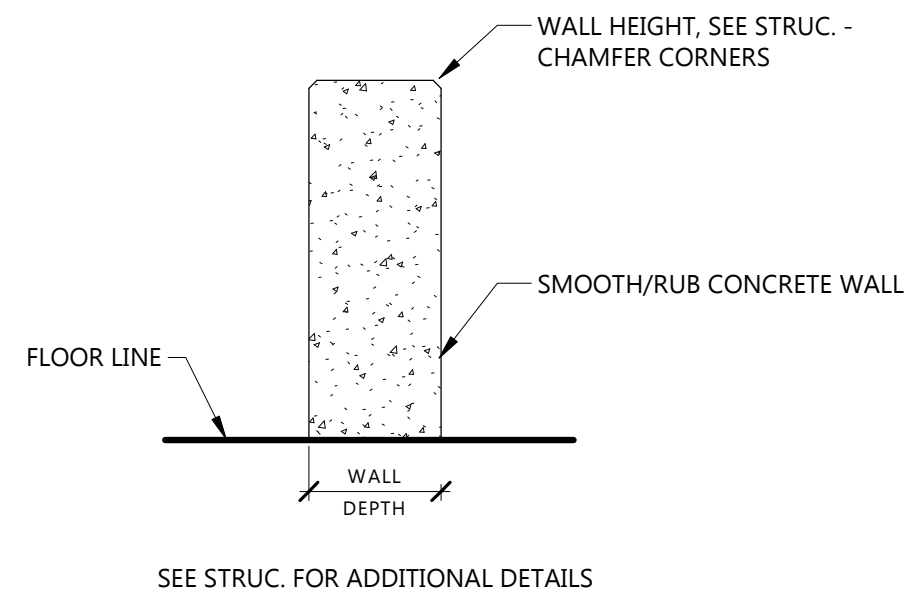
KEYNOTE LEGEND:

| | |
|-------|---|
| ⬡ | <<< INDICATES KEYNOTE ON PLAN |
| AE 37 | WASHER/DRYER BY OWNER - SEE MECH AND ELEC FOR HOOKUPS |
| AE 38 | FLOOR JANITOR SINK - SEE MECH |
| AE 39 | CANOPY COLUMN, PREP STEEL AND GRIND SMOOTH ALL WELDS AND UNEVEN SURFACES FOR PAINT - SEE STRUCT |
| AE 02 | WATER FOUNTAINS, SEE MECH., CMU BLOCK TO BE SMOOTH PLAIN FACE AT WATER FOUNTAIN SURROUND |
| AE 15 | SOLID SURFACE COUNTER WITH METAL SUPPORT BRACKETS |
| AE 20 | SPLASH BLOCKS |
| AS 16 | 5'-0" HIGH PERIMETER GALVANIZED CHAIN LINK FENCE - SEE CIVIL |
| AS 24 | FRONT ENTRY GATE - SEE DETAIL 1/A004 |

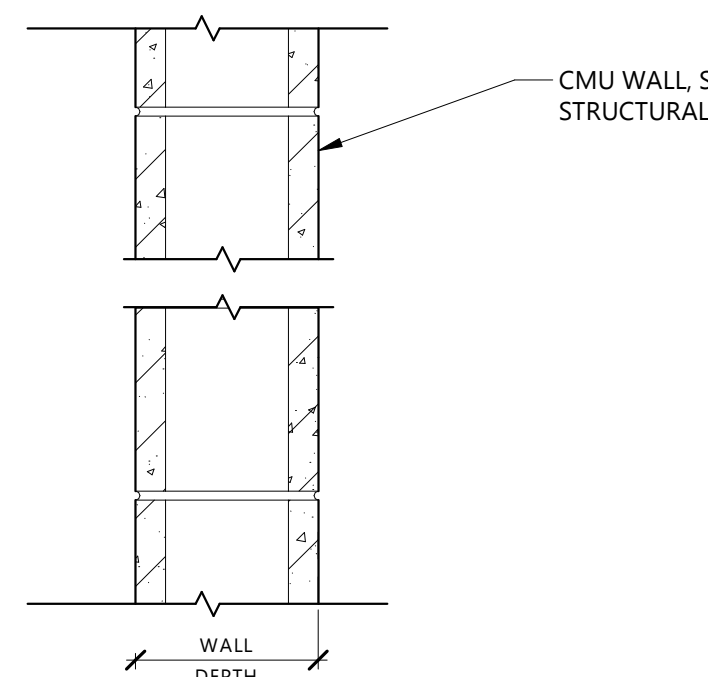
GENERAL NOTES

ATTENTION-CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, TRADESPERSONS AND ALL USERS OF THESE DRAWINGS:

- CAREFULLY AND THOROUGHLY REVIEW THE GENERAL NOTES FIRST BEFORE USING THE DRAWINGS. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THE QUALIFICATIONS LISTED BELOW.
- BE ALERTED THAT WORK YOU ARE INTERESTED IN MAY NOT BE CONTAINED ALL TOGETHER IN ONE PLACE OR IN ONE SERIES OF DRAWINGS (ARCH., STRUCT., MECH., ETC.), OR IN ONE SPECIFICATION SECTION. REQUIREMENTS FOR ELECTRICAL, MECHANICAL, PLUMBING, AND STRUCTURAL CAN ALSO BE SHOWN ON ARCHITECTURAL DRAWINGS; REQUIREMENTS FOR ANY DISCIPLINE CAN BE SHOWN ON THE DRAWINGS OF OTHER DISCIPLINES. REQUIREMENTS FOR ONE DISCIPLINE CAN BE SHOWN BOTH WITH THAT DISCIPLINE AND ANOTHER AS WELL. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED. TO DEFINE WORK IN THE MOST LOGICAL PLACE, AND TO DESCRIBE WORK IN ONE PLACE ONLY. HOWEVER, REMEMBER YOUR SCOPE OF WORK CAN BE CONTAINED IN VARIOUS PLACES WITH VARYING DESCRIPTIONS. DO NOT CONSIDER THERE IS ONLY ONE CUSTOMARY PLACE TO LOCATE YOUR WORK. DO NOT OMIT WORK FROM YOUR SCOPE BECAUSE THE ENTIRE SET OF DOCUMENTS WAS NOT REVIEWED. DO NOT PRESUME YOUR SCOPE OF WORK IS SINGULARLY DEFINED. THE ENTIRE SET OF CONTRACT DOCUMENTS DEFINES THE SCOPE OF WORK FOR THE ENTIRE PROJECT AS WELL AS ANY PARTICULAR TRADE, ETC. YOU MUST REVIEW ALL DRAWING SHEETS AND SPECIFICATIONS DIVISIONS/SECTIONS TO DETERMINE THE EXTENT OF YOUR WORK.
- TYPICALLY MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS SHOW EQUIPMENT, PIPING, ETC. IN A DIAGRAMMATIC WAY WITHOUT DIMENSIONING. THESE DRAWINGS DO NOT NECESSARILY ACKNOWLEDGE ARCHITECTURAL DETAILING FOR SHAFTS, CHASES, EASEMENTS, ETC. GENERAL CONTRACTOR TO COORDINATE THE LOCATIONS OF ALL M.E.P. EQUIPMENT, FIXTURES, PIPING, ETC. WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- THIS SET OF DOCUMENTS IS ORGANIZED TO CONVEY INFORMATION AS CLEARLY AS POSSIBLE IN ONE PLACE.
 - THE WALL TYPES ARE DESCRIBED IN A SCHEDULE, AND KEYED ON THE FLOOR PLAN SHEETS A101, A102, ETC.
 - DOORS ARE DESCRIBED IN A SCHEDULE ON SHEET A600, AND KEYED ON THE FLOOR PLAN SHEETS.
 - GLAZING FRAMES ARE DESCRIBED IN THE 600 SERIES SHEETS, AND KEYED ON THE FLOOR PLANS.
 - MILLWORK, GUARDRAILS, BUILDING EQUIPMENT, AND BUILDING SPECIALTIES ARE DESCRIBED IN SCHEDULES AND IN PLAN AT MULTIPLE LOCATIONS OF THIS DRAWING PACKAGE (REFER TO FULL PACKAGE).
 - TOILET ACCESSORIES ARE DESCRIBED IN A SCHEDULE IN THE 600 SERIES, AND KEYED ON SHEETS IN THE 600 SERIES.
- MECHANICAL, ELECTRICAL AND SPRINKLER FEATURES MUST EXIST IN THE SAME CEILING SPACES. EACH TRADE MUST LAYOUT AND INSTALL THEIR RESPECTIVE CONDITIONS WITH AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THE SPACES. EACH TRADE MUST NOT ASSUME THEIR INSTALLATIONS HAVE BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS PREPARED BY THE OTHER TRADE. EVERY EFFORT HAS BEEN MADE TO COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS, IN THESE DOCUMENTS. THE SPRINKLER DESIGN DOES NOT OCCUR UNTIL THE CONSTRUCTION IS UNDERWAY. SO IT HAS NOT BEEN ACTUALLY INCLUDED IN THESE DOCUMENTS. THERE CAN BE PLACES THAT REQUIRE ADDITIONAL COORDINATION AND MODIFICATIONS. EACH TRADE CONTRACTOR TO REVIEW THEIR REQUIREMENTS WITH THE OTHER TRADE AND PROVIDE COORDINATION DURING SHOP DRAWINGS AND CONSTRUCTION. THIS EFFORT TO BE OVERSEEN BY THE GENERAL CONTRACTOR.
- ALL REQUESTS FOR ADDITIONAL INFORMATION AND/OR CLARIFICATION MUST BE SUBMITTED TO THE ARCHITECT IN WRITING VIA A PROJECT REQUEST FOR INTERPRETATION(INFORMATION) FORM.



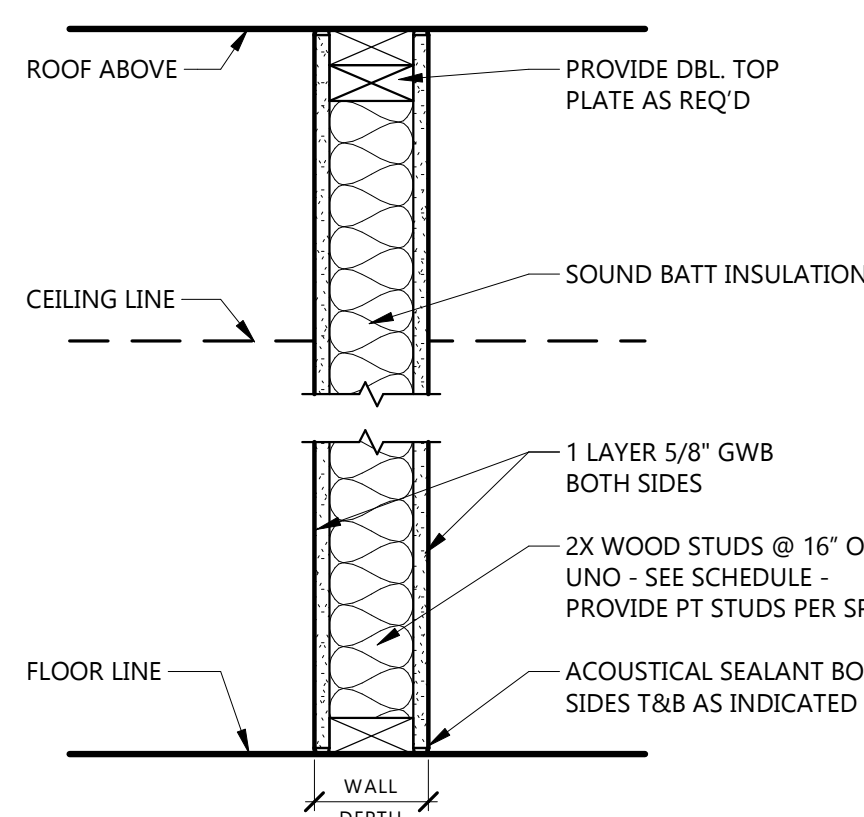
CW 8" CONCRETE WALL



| TYPE MARK | WALL DEPTH | FIRE RATING | FIRE TEST | SOUND ATTENUATION | | NOTES |
|-----------|------------|-------------|-----------|-------------------|-----|-------|
| | | | | SAB | STC | |
| M4 | 4" | | | | | |
| M8 | 8" | | | | | |

SEE EXTERIOR ELEVATIONS FOR BLOCK TYPE AND COLOR

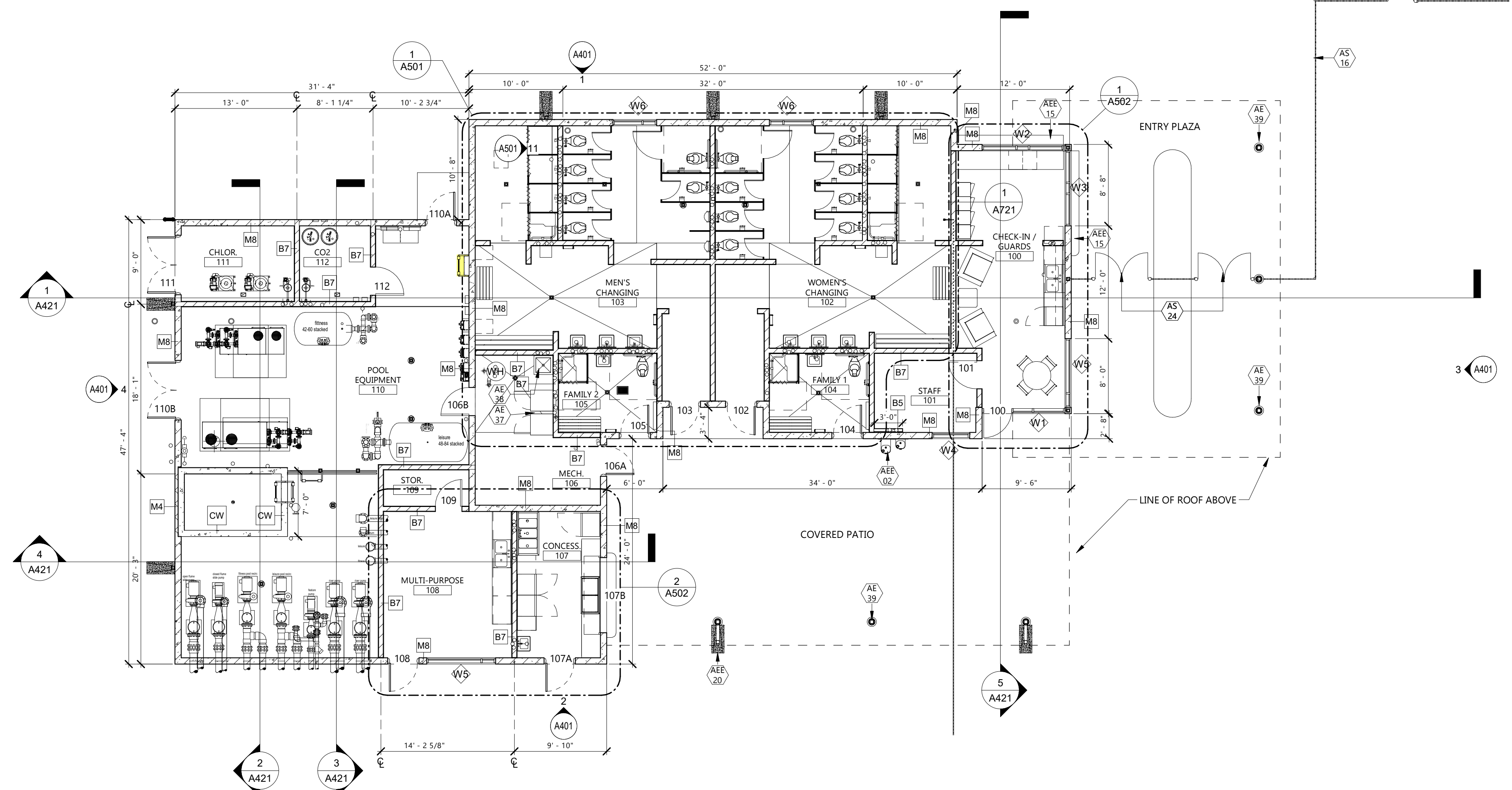
M CMU WALL



| TYPE MARK | STUD SIZE | WALL DEPTH | FIRE RATING | FIRE TEST | SOUND ATTENUATION | | NOTES |
|-----------|-----------|------------|-------------|-----------|-------------------|-----|------------------------|
| | | | | | SAB | STC | |
| B5 | 3 1/2" | 4 1/8" | NR | | 3 1/2" | | ONE SIDE 5/8" GYP. BD. |
| B7 | 5 1/2" | 6 3/4" | NR | | | | |

SEE LIFE SAFETY PLAN FOR N.R. SMOKE-RESISTIVE WALL LOCATIONS

B NON-RATED GWB ON WOOD STUDS



1 FIRST FLOOR PLAN
A201 1/8" = 1'-0"

LIFE SAFETY LEGEND

- 1 HOUR FIRE PARTITION
- EXIT/EXIT DISCHARGE
- EXIT ACCESS
- HORIZONTAL EXIT
- ILLUMINATED EXIT SIGN
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
EGRESS PATH + 60" WIDE
ACCESSIBLE ROUTE
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
SECONDARY EGRESS & ACCESSIBLE
ROUTE
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
COMMON PATH (CPTD)
COMPARTMENT ACCESS (SCA)
EXIT ACCESS DISTANCE (TDE)
- OCCUPANT LOAD IN A GIVEN ROOM OR AREA
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- SMOKE COMPARTMENT MARK
- SUITE MARK
- EMERGENCY COMMON EXIT PATH
- CEILING HUNG EXIT SIGN
- WALL HUNG EXIT SIGN

ROOM OCCUPANT CALCULATIONS

| Room No. | Room Name | Occupancy/Function | Area | OLF | Occupant Load |
|-----------------|-------------------|--------------------|----------|-----|---------------|
| 100 | CHECK-IN / GUARDS | BUSINESS | 300 SF | 150 | 2 |
| 101 | STAFF | BUSINESS | 90 SF | 150 | 1 |
| 102 | WOMEN'S CHANGING | LOCKERS | 460 SF | 50 | 10 |
| 103 | MEN'S CHANGING | LOCKERS | 490 SF | 50 | 10 |
| 104 | FAMILY 1 | LOCKERS | 90 SF | 50 | 2 |
| 105 | FAMILY 2 | LOCKERS | 90 SF | 50 | 2 |
| 106 | MECH. | ACCESSORY | 170 SF | 300 | 1 |
| 107 | CONCESS. | BUSINESS | 140 SF | 150 | 1 |
| 108 | MULTI-PURPOSE | BUSINESS | 210 SF | 150 | 2 |
| 109 | STOR. | ACCESSORY | 40 SF | 300 | 1 |
| 110 | POOL EQUIPMENT | ACCESSORY | 950 SF | 300 | 4 |
| 111 | CHLOR. | ACCESSORY | 100 SF | 300 | 1 |
| 112 | CO2 | ACCESSORY | 60 SF | 300 | 1 |
| TOTAL OCCUPANTS | | | 3,190 SF | | 38 |

LIFE SAFETY CODE ANALYSIS

OCCUPANCY
PROJECT = A-3 BUILDING = B (303.1.1- Assembly Group A-3, but < 50 Persons)

OCCUPANT LOAD SIGNS WILL BE PROVIDED IN ACCORDANCE WITH NFPA 101 SECTION 7.3.1.2 AND TO BE DISPLAYED AT CONSPICUOUS PLACES

CONSTRUCTION
V-B CODE INFO

ALLOWABLES
GROSS AREA: 2,900 SF (TABLE 506.2, <9,000 SF FOR V-B, NS)
BUILDING HEIGHT, MAX: 40'-0"
ACTUAL BLDG HEIGHT: 24'-0", ONE-STORY

FIRE RESISTANCE
RATING ELEMENT / AREA HR RATING
PRIMARY STRUCTURAL FRAME: 0
BEARING WALLS-EXTERIOR: 0
BEARING WALLS-INTERIOR: 0
NON BEARING WALLS-EXTERIOR: 0 (Per Table 602, X>30)
NON BEARING WALLS-INTERIOR: 0
FLOOR CONSTRUCTION: 0
ROOF CONSTRUCTION: 0

TABLE 705.8 MAX EXT OPN'G: > 30', No Limit (UP,NS)
CORRIDORS-FIRE RESISTANCE: NOT REQUIRED (1020.1.4)
DOORS-FIRE RESISTANCE: NOT APPLICABLE

FIRE PROTECTION
AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED (Chapter 5 & Chapter 9)
FIRE ALARM SYSTEM: NOT REQUIRED (907.2.2)
ALL ACCESS CONTROLLED EGRESS GATE TO BE CONNECTED TO FIRE ALARM, AND TO RELEASE ELECTRIC STRIKE ON ALARM CONDITION.
FIRE EXTINGUISHERS IS PROVIDED PER NFPA 101 SECTION 9.7.4.1

EGRESS
1004 - OCCUPANT LOAD SEE POOL DECK PLAN
1005 - EGRESS WIDTH (1005.3.2)
EGRESS COMPONENTS: 20 x 37 OCC. = 7.4', REQ'D
EGRESS PROVIDED: COMPLIES, SEE BATH HOUSE PLAN
1006 - NUMBER OF EXITS
RESTROOM AREA: 1 REQ'D (OCC LOAD < 49) PROVIDED EACH
POOL EQUIP AREA: 2 REQ'D (1006.2.2.1) PROVIDED
MAX COMMON PATH: 100' @ OCC. < 45 FT (COMPLIES)
1016 - EXIT ACCESS
B OCCUPANCY w/o SPRINKLERS: MAX: 75 FT (COMPLIES)
1017 - EXIT ACCESS TRAVEL DISTANCE
ASSEMBLY w/o SPRINKLERS: MAX: 200 FT (COMPLIES)

ACCESSIBILITY
ALL DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS

PLUMBING FIXTURES
--

ENERGY REQUIREMENTS
--

PROJECT DESCRIPTION

NEW CONSTRUCTION OF A TOILET FACILITY, CONCESSION, MECHANICAL ROOM, AND NEW POOLS.

CODE REFERENCES

| | |
|--|---------------|
| International Building Code (IBC) | 2021 |
| International Mechanical Code (IMC) | 2021 |
| Uniform Plumbing Code (UPC) | 2018 |
| International Energy Conservation Code (IECC) | 2021 |
| International Fuel Gas Code (IFGC) | 2021 |
| National Electric Code (NEC) | 2017 |
| UPPER MISSOURI DISTRICT HEALTH UNIT POOL/SPA RULES AND REGULATIONS | 2016 SWIMMING |
| Accessible Usable Buildings & Facilities (ICC/ANSI A117.1) | 2017 |

- ### CODE NOTES
- ALL DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS
 - ALL WOOD USED WITHIN PROJECT TO BE CLASS B
 - OCCUPANT LOAD SIGNS WILL BE PROVIDED IN ACCORDANCE WITH NFPA 101 SECTION 7.3.1.2 AND TO BE DISPLAYED AT CONSPICUOUS PLACES
 - FIRE EXTINGUISHERS IS PROVIDED PER NFPA 101 SECTION 9.7.4.1
 - EMERGENCY LIGHTING IN ACCORDANCE WITH NFPA 101, SECTION 7.9
 - EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 101, SECTION 7.8
 - ALL INTERIOR FINISH MATERIAL TO BE IN COMPLIANCE WITH NFPA 101 SECTION 10.2
 - COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS
 - COMPLY WITH IBC 603.1 ALLOWABLE MATERIALS.



1 LIFE SAFETY PLAN
1" = 20'-0"

EAPC

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Interior Design Industrial

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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY: WILLISTON
STATE: ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
DRAWN BY: EK
CHECKED BY: BD

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
LIFE SAFETY PLANS

G101



Counsilman · Hunsaker
AQUATICS FOR LIFE

Williston, ND
Expense Analysis
January, 2023

Capacity

- Training capacity – 5 swimmers per lane per session
- Daily training – 3 sessions per day
- Recreation holding capacity (RHC)
- Shallow water – 25 ft² per person
- Deep water – 100 ft² per person
- Daily recreation capacity – 2.5 x RHC
- Program holding capacity – 32 ft² per person
- Health code capacity numbers will be higher than what is shown.

Williston Water Park

WET-SIDE CAPACITY

Training (Available 25-Yard Lanes)

| | |
|--------------|----------|
| Outdoor Lap | 6 |
| Total | 6 |

| | |
|-------------------------------------|----|
| Estimated Training Holding Capacity | 30 |
| Daily Training Capacity | 90 |

Recreation (Surface Area Sq. Ft.)

| | |
|-----------------|--------------|
| Outdoor Lap | 4,128 |
| Outdoor Leisure | 5,019 |
| Total | 9,147 |

| | |
|---------------|-------|
| Shallow Water | 8,232 |
| Deep Water | 915 |

| | |
|---------------------------------------|-----|
| Estimated Recreation Holding Capacity | 338 |
| Daily Recreation Holding Capacity | 846 |
| Program Holding Capacity | 286 |

| | |
|--------------------------------------|------------|
| Total Capacity | 368 |
| Total Daily Facility Capacity | 936 |



Expenses – Staffing

- Full time includes overhead
- Brian – Assistant Manager
 - ½ Salary to Aquatic Center
- Additional Maintenance Sup
 - ½ Salary to Aquatic Center
- Custodial absorbed by PARD
- Lifeguards
 - \$15.20/hr. + 20% overhead
 - 2 LG from 8 - 10 AM
 - 9 LG from 10 AM – 12 PM
 - 13 LG from 12 – 8 PM
- Pool Manager
 - \$17/hr. + 20% overhead
 - 1 Pool Manager from 8 AM – 8 PM
- Estimated Part Time FTEs – 29.83

CHART Direct Facility Expense Budget
AQUATIC RESEARCH TOOL
Williston Water Park

| Facility Staff | |
|---------------------------------|------------------|
| Maintenance Salaries | \$45,000 |
| Food Service Manager | Not Included |
| Aquatic Coordinator | Not Included |
| Recreation Coordinator | Not Included |
| Custodians | Not Included |
| Full Time Benefits | \$18,000 |
| Part-Time Management | \$26,928 |
| Lifeguard Personel | \$252,806 |
| Cashiers/Concessions/Attendants | \$50,688 |
| Part-Time Maintenance | Not included |
| Personnel Equipment Cost | \$10,739 |
| Training | \$12,000 |
| Total Labor | \$416,162 |

Estimate Current as of: 1/3/2023
Source: Counsilman-Hunsaker




Utilities

Assumptions

- Electricity - \$0.10/kWH
- Water/Sewer - \$4.88
- Gas - \$.69/ Therm

Pool Heating


- Heating May – Sept
- Average pool temp - 84 °

|  Direct Facility Expense Budget Williston Water Park | |
|--|-----------------|
| Utilities | |
| HVAC | \$7,837 |
| Electricity | \$30,983 |
| Pool Heating | \$35,833 |
| Data/Communications | \$1,728 |
| Trash Service | \$3,120 |
| Water & Sewer | \$14,796 |
| Total Utilities | \$94,297 |
| Estimate Current as of: | 1/3/2023 |
| Source: Counsilman-Hunsaker | |



Direct Facility Expenses

- Insurance – Quotes from Rob Osborn
 - WC - \$5.37 per \$100 of payroll
- Landscaping - \$25 K per acre
- CC Fees
 - Mem/Daily swims – 35,156
 - Programming – Not included
- Chemicals – \$2 per lb
- Advertising - \$0.10 per attendee

|  Direct Facility Expense Budget Williston Water Park | |
|--|------------------|
| Direct Facility Expenses | |
| Insurance | \$32,318 |
| Repair and Maintenance | \$20,300 |
| Landscaping | \$41,082 |
| Credit Card Fees | \$12,219 |
| Operating Supplies | \$12,180 |
| Chemicals | \$9,362 |
| Advertising | Not Included |
| Direct Expenses | \$127,460 |
| Estimate Current as of: 1/3/2023 | |
| Source: Counsilman-Hunsaker | |



Expense Summary

- Includes Food and Beverage
 - 60% of estimated revenue
 - Revenue - \$0.50 per cap
- Capital Replacement Fund
 - Budgeted annually for future capital improvement projects

Total Operating Expenses - \$648,466

W Cap Improvement - \$688,966

| Facility Staff | |
|---------------------------------|------------------|
| Full Time Employment | Not Included |
| Maintenance Salaries | \$45,000 |
| Food Service Manager | Not Included |
| Aquatic Coordinator | Not Included |
| Recreation Coordinator | Not Included |
| Custodians | Not Included |
| Full Time Benefits | \$18,000 |
| Part-Time Management | \$26,928 |
| Lifeguard Personnel | \$252,806 |
| Cashiers/Concessions/Attendants | \$50,688 |
| Part-Time Maintenance | Not included |
| Personnel Equipment Cost | \$10,739 |
| Training | \$12,000 |
| Total Labor | \$416,162 |

| Direct Facility Expenses | |
|--------------------------|------------------|
| Insurance | \$32,318 |
| Repair and Maintenance | \$20,300 |
| Landscaping | \$41,082 |
| Credit Card Fees | \$12,219 |
| Operating Supplies | \$12,180 |
| Chemicals | \$9,362 |
| Advertising | Not Included |
| Direct Expenses | \$127,460 |

| Utilities | |
|------------------------|-----------------|
| HVAC | \$7,837 |
| Electricity | \$30,983 |
| Pool Heating | \$35,833 |
| Data/Communications | \$1,728 |
| Trash Service | \$3,120 |
| Water & Sewer | \$14,796 |
| Total Utilities | \$94,297 |

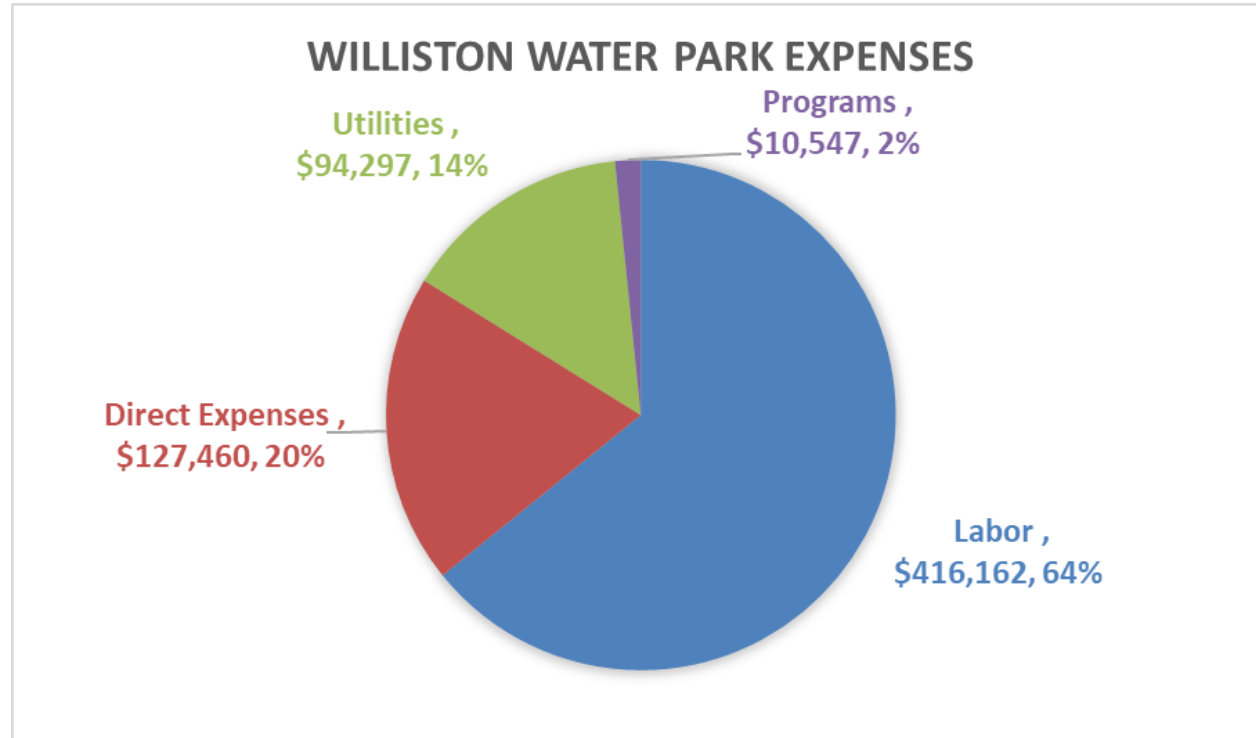
| Programs | |
|-------------------------|-----------------|
| Program Supplies | Not Included |
| LG Class Materials | Not Included |
| Food and Beverage | \$10,547 |
| Part-Time Program Staff | Not Included |
| Total Programs | \$10,547 |

| | |
|---------------------------------|------------------|
| Total Operating Expenses | \$648,466 |
| Capital Replacement Fund | \$40,500 |
| Total Expense | \$688,966 |

Estimate Current as of: 1/3/2023
Source: Counsilman-Hunsaker



Expense Summary



| Facility Staff | |
|---------------------------------|------------------|
| Full Time Employment | Not Included |
| Maintenance Salaries | \$45,000 |
| Food Service Manager | Not Included |
| Aquatic Coordinator | Not Included |
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| Source: Counsilman-Hunsaker | |



WILLISTON WATER WORLD

1324 9TH AVE NW
WILLISTON, ND 58801

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G101 LIFE SAFETY SHEET

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C1.2 BASEMAP
C2.1 DETAILS
C2.2 DETAILS
C2.3 DETAILS
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C4.2 DECK GRADING PLAN
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AQ303 LEISURE POOL DETAILS
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AQ704 POOL MECHANICAL DETAILS
AQ705 POOL MECHANICAL DETAILS
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PM01 MECHANICAL SYMBOLS & LEGEND SHEET

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P200 UNDERGROUND PLUMBING PLAN
P201 FIRST FLOOR PLUMBING PLAN
P501 SANITARY & VENT RISER DIAGRAM
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P601 PLUMBING DETAILS
P801 PLUMBING SCHEDULES

MECHANICAL

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M301 FIRST FLOOR VENTILATION PLAN
M302 ROOF VENTILATION PLAN
M601 MECHANICAL DETAILS
M801 MECHANICAL SCHEDULES

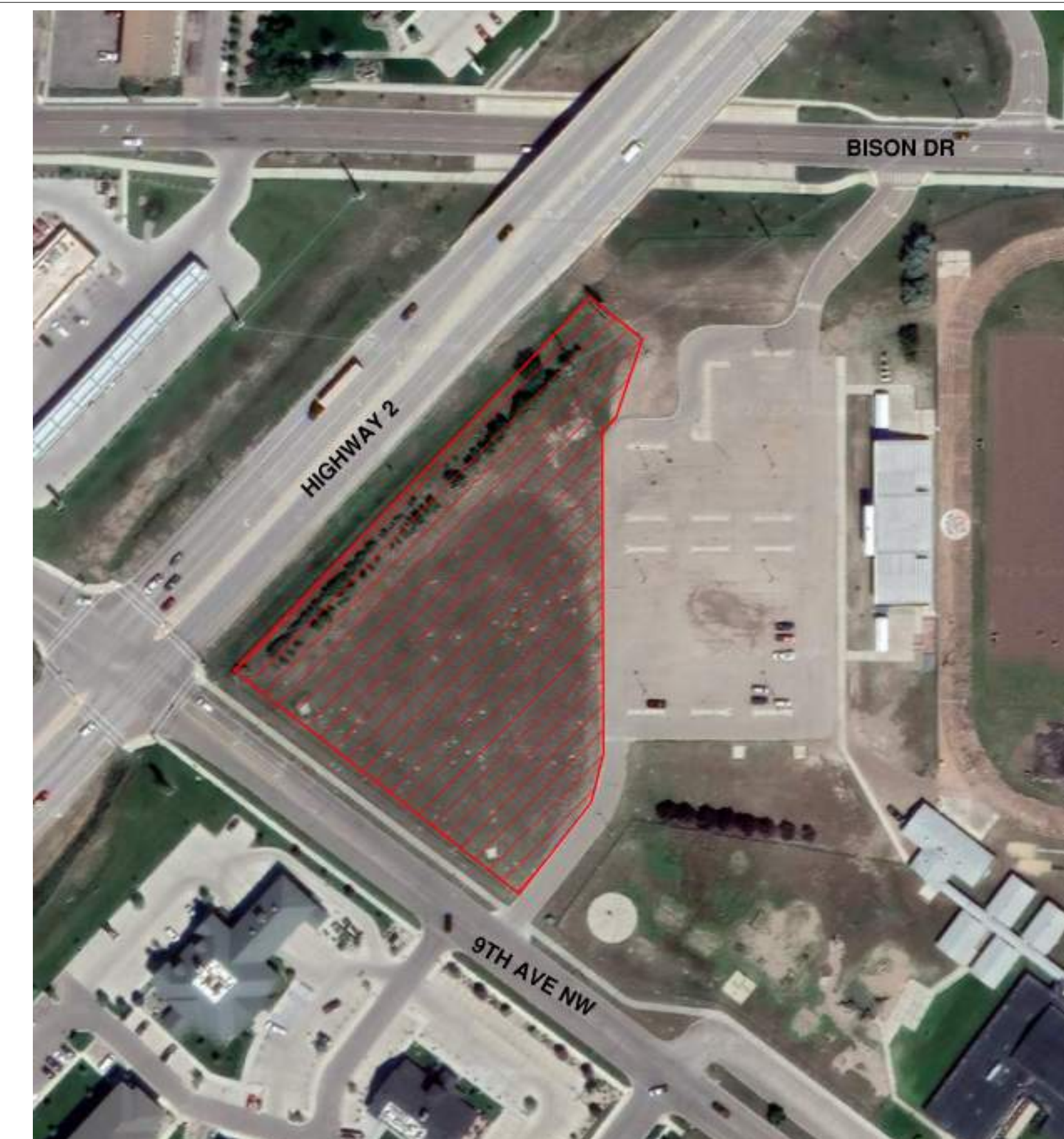
ELECTRICAL

E001 ELECTRICAL SYMBOLS & ABBREVIATIONS LEGEND
E100 ELECTRICAL SITE PLAN
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E901 SCHEDULES

EXTERIOR RENDERING

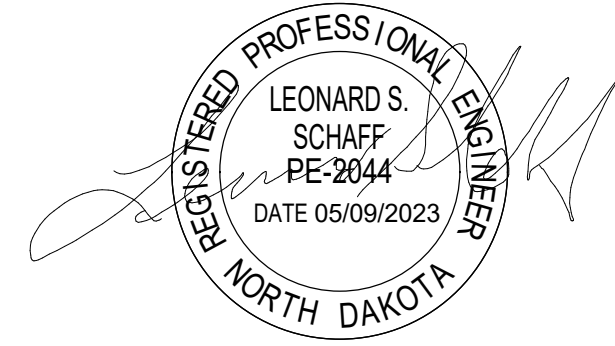
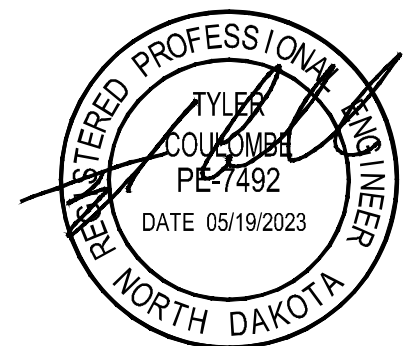
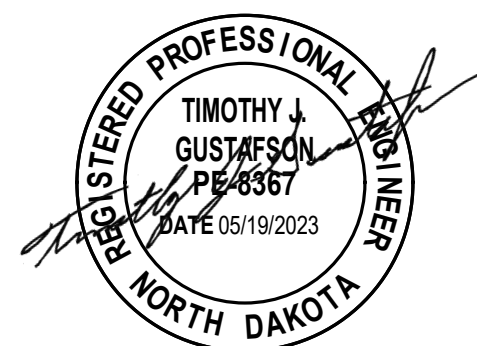


LOCATION MAP



STAMPS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718



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www.olcdesigns.com

CLIENT
WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER
WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620

DRAWN BY: EK

CHECKED BY: BD

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DRAWING TITLE
COVER SHEET

G001

LIFE SAFETY LEGEND

- 1 HOUR FIRE PARTITION
- EXIT/EXIT DISCHARGE
- EXIT ACCESS
- HORIZONTAL EXIT
- ILLUMINATED EXIT SIGN
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
EGRESS PATH + 60" WIDE
ACCESSIBLE ROUTE
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
SECONDARY EGRESS & ACCESSIBLE
ROUTE
- CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY
COMMON PATH (CPTD)
COMPARTMENT ACCESS (SCA)
EXIT ACCESS DISTANCE (TDE)
- OCCUPANT LOAD IN A GIVEN ROOM OR AREA
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- SMOKE COMPARTMENT MARK
- SUITE MARK
- EMERGENCY COMMON EXIT PATH
- CEILING HUNG EXIT SIGN
- WALL HUNG EXIT SIGN

ROOM OCCUPANT CALCULATIONS

| Room No. | Room Name | Occupancy/Function | Area | OLF | Occupant Load |
|-----------------|-------------------|--------------------|----------|-----|---------------|
| 100 | CHECK-IN / GUARDS | BUSINESS | 300 SF | 150 | 2 |
| 101 | STAFF | BUSINESS | 90 SF | 150 | 1 |
| 102 | WOMEN'S CHANGING | LOCKERS | 460 SF | 50 | 10 |
| 103 | MEN'S CHANGING | LOCKERS | 490 SF | 50 | 10 |
| 104 | FAMILY 1 | LOCKERS | 90 SF | 50 | 2 |
| 105 | FAMILY 2 | LOCKERS | 90 SF | 50 | 2 |
| 106 | MECH. | ACCESSORY | 170 SF | 300 | 1 |
| 107 | CONCESS. | BUSINESS | 140 SF | 150 | 1 |
| 108 | MULTI-PURPOSE | BUSINESS | 210 SF | 150 | 2 |
| 109 | STOR. | ACCESSORY | 40 SF | 300 | 1 |
| 110 | POOL EQUIPMENT | ACCESSORY | 950 SF | 300 | 4 |
| 111 | CHLOR. | ACCESSORY | 100 SF | 300 | 1 |
| 112 | CO2 | ACCESSORY | 60 SF | 300 | 1 |
| TOTAL OCCUPANTS | | | 3,190 SF | | 38 |

LIFE SAFETY CODE ANALYSIS

OCCUPANCY
PROJECT = A-3 BUILDING = B (303.1.1- Assembly Group A-3, but < 50 Persons)

OCCUPANT LOAD SIGNS WILL BE PROVIDED IN ACCORDANCE WITH NFPA 101 SECTION 7.3.1.2 AND TO BE DISPLAYED AT CONSPICUOUS PLACES

CONSTRUCTION
V-B CODE INFO

ALLOWABLES
GROSS AREA: 2,900 SF (TABLE 506.2, <9,000 SF FOR V-B, NS)
BUILDING HEIGHT, MAX: 40'-0"
ACTUAL BLDG HEIGHT: 24'-0", ONE-STORY

FIRE RESISTANCE
RATING ELEMENT / AREA HR RATING
PRIMARY STRUCTURAL FRAME: 0
BEARING WALLS-EXTERIOR: 0
BEARING WALLS-INTERIOR: 0
NON BEARING WALLS-EXTERIOR: 0 (Per Table 602, X>30)
NON BEARING WALLS-INTERIOR: 0
FLOOR CONSTRUCTION: 0
ROOF CONSTRUCTION: 0

TABLE 705.8 MAX EXT OPN'G: > 30', No Limit (UP,NS)
CORRIDORS-FIRE RESISTANCE: NOT REQUIRED (1020.1.4)
DOORS-FIRE RESISTANCE: NOT APPLICABLE

FIRE PROTECTION
AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED (Chapter 5 & Chapter 9)
FIRE ALARM SYSTEM: NOT REQUIRED (907.2.2)
ALL ACCESS CONTROLLED EGRESS GATE TO BE CONNECTED TO FIRE ALARM, AND TO RELEASE ELECTRIC STRIKE ON ALARM CONDITION.
FIRE EXTINGUISHERS IS PROVIDED PER NFPA 101 SECTION 9.7.4.1

EGRESS
1004 - OCCUPANT LOAD SEE POOL DECK PLAN
1005 - EGRESS WIDTH (1005.3.2)
EGRESS COMPONENTS: 20 x 37 OCC. = 7.4', REQ'D
EGRESS PROVIDED: COMPLIES, SEE BATH HOUSE PLAN
1006 - NUMBER OF EXITS
RESTROOM AREA: 1 REQ'D (OCC LOAD < 49) PROVIDED EACH
POOL EQUIP AREA: 2 REQ'D (1006.2.2.1) PROVIDED
MAX COMMON PATH: 100' @ OCC. < 45 FT (COMPLIES)
1016 - EXIT ACCESS
B OCCUPANCY w/o SPRINKLERS: MAX: 75 FT (COMPLIES)
1017 - EXIT ACCESS TRAVEL DISTANCE
ASSEMBLY w/o SPRINKLERS: MAX: 200 FT (COMPLIES)

ACCESSIBILITY
ALL DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS

PLUMBING FIXTURES
--

ENERGY REQUIREMENTS
--

PROJECT DESCRIPTION

NEW CONSTRUCTION OF A TOILET FACILITY, CONCESSION, MECHANICAL ROOM, AND NEW POOLS.

CODE REFERENCES

| | |
|--|---------------|
| International Building Code (IBC) | 2021 |
| International Mechanical Code (IMC) | 2021 |
| Uniform Plumbing Code (UPC) | 2018 |
| International Energy Conservation Code (IECC) | 2021 |
| International Fuel Gas Code (IFGC) | 2021 |
| National Electric Code (NEC) | 2017 |
| UPPER MISSOURI DISTRICT HEALTH UNIT POOL/SPA RULES AND REGULATIONS | 2016 SWIMMING |
| Accessible Usable Buildings & Facilities (ICC/ANSI A117.1) | 2017 |

- ### CODE NOTES
- ALL DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS
 - ALL WOOD USED WITHIN PROJECT TO BE CLASS B
 - OCCUPANT LOAD SIGNS WILL BE PROVIDED IN ACCORDANCE WITH NFPA 101 SECTION 7.3.1.2 AND TO BE DISPLAYED AT CONSPICUOUS PLACES
 - FIRE EXTINGUISHERS IS PROVIDED PER NFPA 101 SECTION 9.7.4.1
 - EMERGENCY LIGHTING IN ACCORDANCE WITH NFPA 101, SECTION 7.9
 - EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 101, SECTION 7.8
 - ALL INTERIOR FINISH MATERIAL TO BE IN COMPLIANCE WITH NFPA 101 SECTION 10.2
 - COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS
 - COMPLY WITH IBC 603.1 ALLOWABLE MATERIALS.



1 LIFE SAFETY PLAN
1" = 20'-0"

EAPC

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Interior Design Industrial

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CONSULTANTS

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400 SANTA FE DRIVE
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T: 303.294.9244
www.olcdesigns.com

CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY: WILLISTON
STATE: ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
DRAWN BY: EK
CHECKED BY: BD

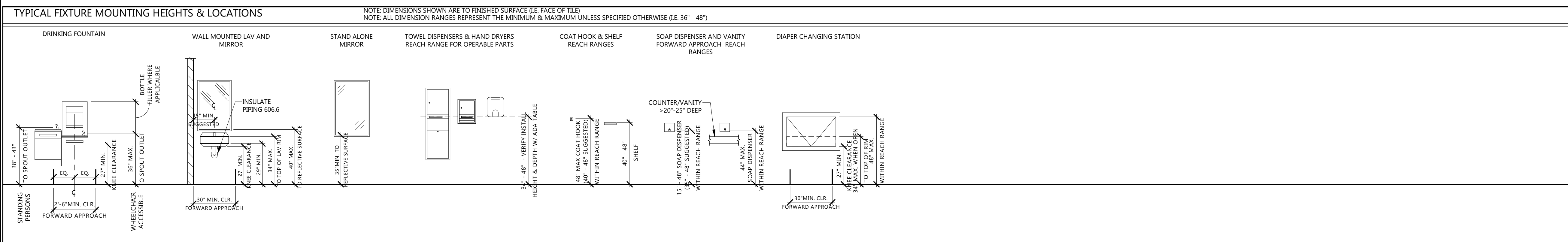
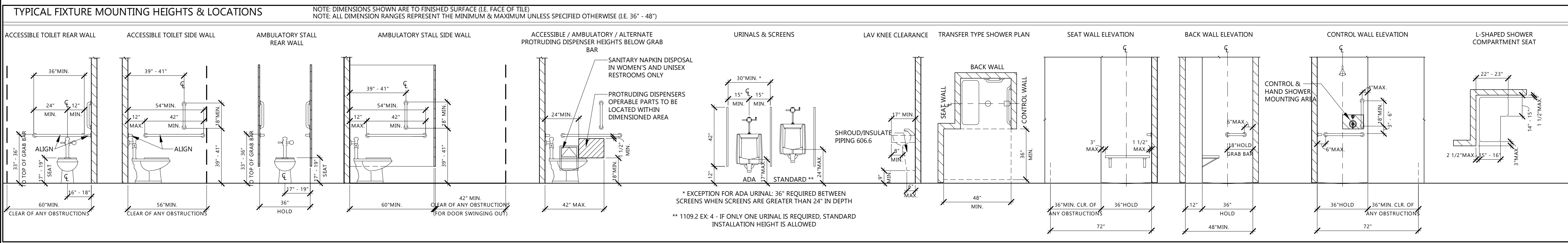
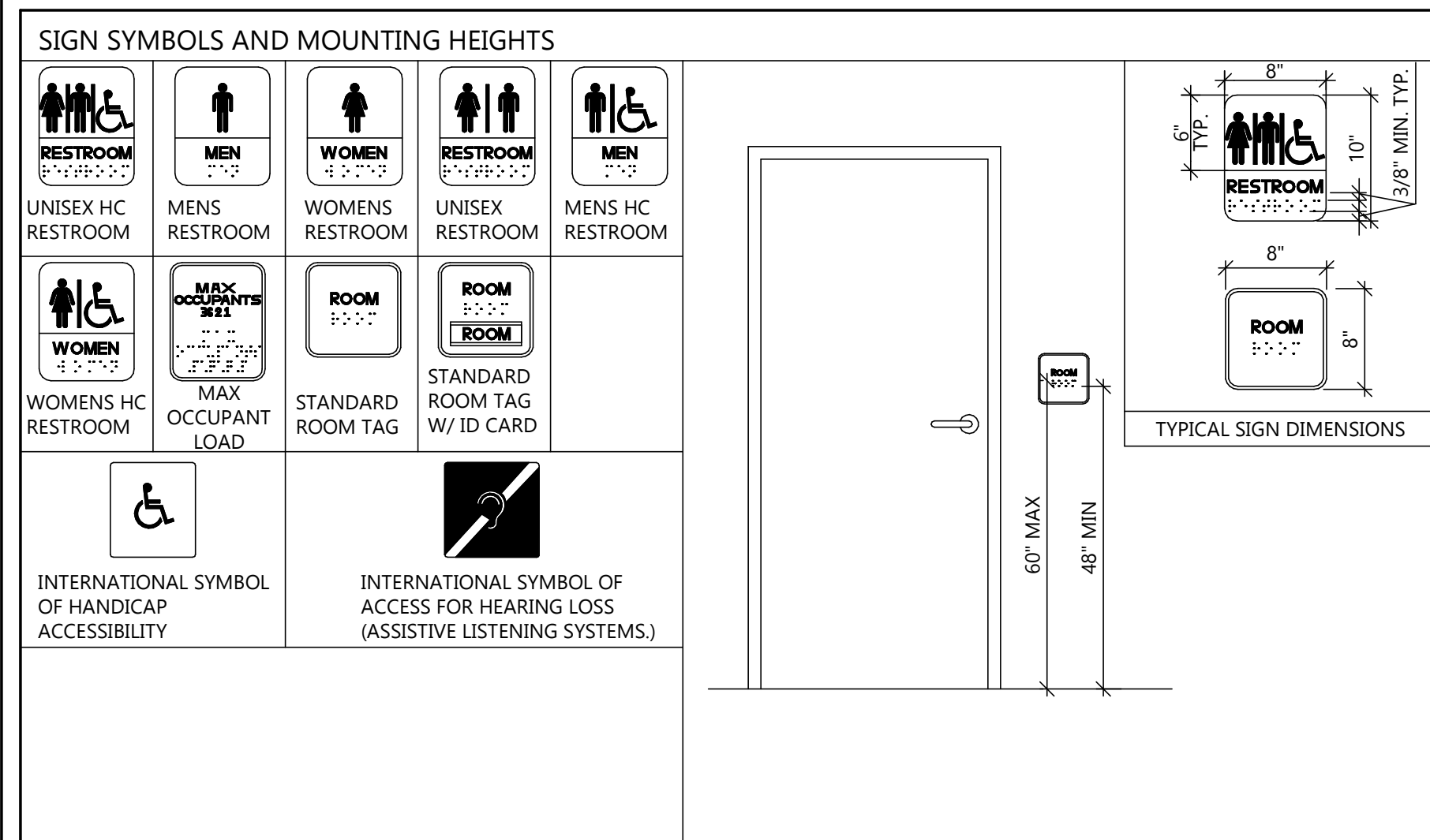
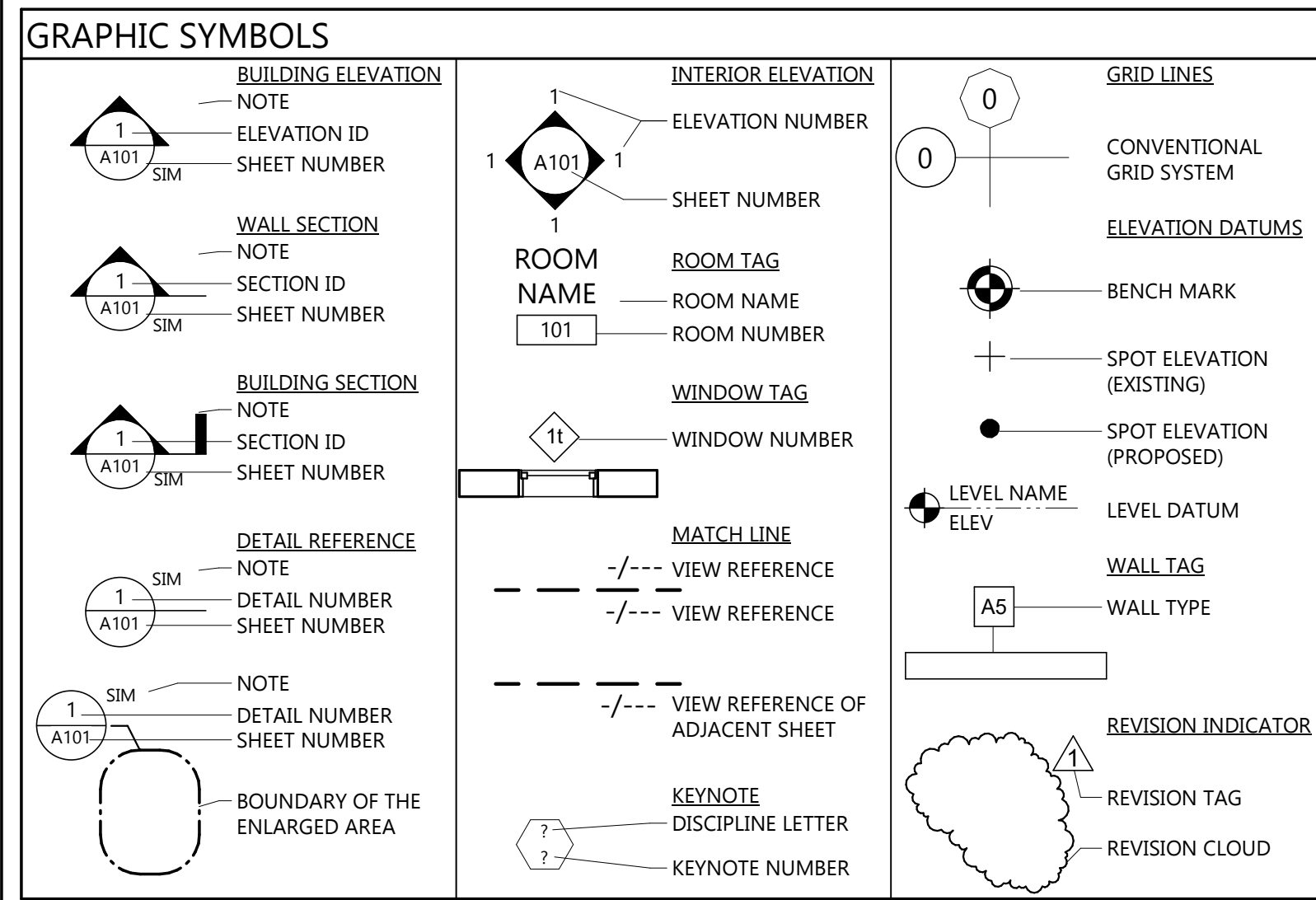
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STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
LIFE SAFETY PLANS

G101



Plot Date: 5/20/2023 7:52:26 PM

| | | |
|----------|--------|---|
| A | A/C | AIR CONDITIONING |
| | AB | ANCHOR BOLT |
| | ACC | ACCESSIBLE |
| | ACT | ACOUSTICAL CEILING TILE |
| | ADA | AMERICAN WITH DISABILITIES ACT |
| | ADD | ADDENDUM |
| | ADJ | ADJACENT / ADJUSTABLE |
| | AFF | ABOVE FINISHED FLOOR |
| | AHJ | AUTHORITY HAVING JURISDICTION |
| | AL | ALUMINUM |
| | ALT | ALTERNATE |
| | AP | ACCESS PANEL |
| | APL | ACRYLIC PANEL |
| | APPROX | APPROXIMATE |
| | APT | APARTMENT |
| | ARCH | ARCHITECT / ARCHITECTURAL |
| | AVE | AVENUE |
| | AVG | AVERAGE |
| | AWP | ACOUSTIC WALL PANEL |
| B | BB | BOND BEAM |
| | BD | BI-FOLD DOOR |
| | BITUM | BITUMINOUS |
| | BLDG | BUILDING |
| | BLKG | BLOCKING |
| | BLVD | BOULEVARD |
| | BM | BEAM |
| | BO | BOTTOM OF / BY OTHERS |
| | BOT | BOTTOM |
| | BR | BEDROOM |
| | BRG | BEARING |
| | BSMT | BASEMENT |
| | BTWN | BETWEEN |
| C | CAB | CABINET |
| | CC | CUBICAL CURTAINS |
| | CD | CONSTRUCTION DOCUMENTS |
| | CF | CUBIC FOOT |
| | CFCJ | CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED |
| | CFS | COLORS/SEALED/STAINED CONCRETE |
| | CFS | CORK FLOOR SHEET |
| | CFT | CORK FLOOR TILE |
| | CG | CORNER GUARD |
| | CG | CORNER GUARDS |
| | CHRL | CHAIR RAIL |
| | CIP | CAST-IN PLACE |
| | CJ | CONTROL JOINT |
| | CL | CENTERLINE |
| | CLG | CEILING |
| | CLR | CLEAR |
| | CMU | CONCRETE MASONRY UNIT |
| | CORL | COLLING DOOR |
| | COL | COLUMN |
| | COMP | COMPOSITE / COMPOSITION |
| | CONC | CONCRETE |
| | CONST | CONSTRUCTION |
| | CONT | CONTINUOUS |
| | CONTR | CONTRACTOR |
| | COORD | COORDINATE |
| | CORR | CORRIDOR |
| | CPT | CARPET |
| | CR | CURTAIN ROD |
| | CTB | CERAMIC TILE BASE |
| | CTF | CERAMIC TILE FLOOR |
| | CTOP | COUNTER TOP |
| | CTR | CENTER |
| | CTW | CERAMIC TILE WALL |
| | CU | CUBIC |
| | CY | CUBIC YARD |

| | | |
|----------|---------|--|
| D | D | DEPTH / CLOTHES DRYER |
| | DE | DEPTH (INCHES) |
| | DB | DECIBEL |
| | DBL | DOUBLE |
| | DEMO | DEMOLISH / DEMOLITION |
| | DEPT | DEPARTMENT |
| | DF | DRINKING FOUNTAIN |
| | DIA | DIAMETER |
| | DIAG | DIAGONAL |
| | DIM | DIMENSION |
| | DIV | DIVISION |
| | DN | DOWN |
| | DR | DOOR |
| | DS | DOWNSPOUT |
| | DTL | DETAIL |
| | HDR | HEADER |
| | HWDW | HARDWOOD |
| | HWDW | HARDWARE |
| | HM | HOLLOW METAL |
| | HNR | HANDRAILS |
| | HOLD | HOLD TO INDICATED DIMENSION |
| | HORIZ | HORIZONTAL |
| | HP | HIGH POINT |
| | HR | HOUR |
| | HSPK | HOUSEKEEPING |
| | HT | HEIGHT |
| I | ID | INSIDE DIAMETER / INSIDE DIMENSION |
| | IG | INSULATING GLASS |
| | IJ | ISOLATION JOINT |
| | IN | INCHES |
| | INFO | INFORMATION |
| | INSP | INSPECTION / INSPECTOR |
| | INST | INSTALLATION |
| | INT | INTERIOR |
| | INT STN | INTERIOR STONEWORK |
| | IR | IMPACT RESISTANT |
| | IRD | IMPACT RESISTANT DOORS |
| | ISO | ISOLATION / INTERNATIONAL STANDARDS ORGANIZATION |
| F | F | FAHRENHEIT |
| | F/R | FIRE RATED |
| | FBD | FIBER BOARD |
| | FD | FLOOR DRAIN |
| | FDC | FIRE DEPARTMENT CONNECTION |
| | FDN | FOUNDATION |
| | FE | FIRE EXTINGUISHER |
| | FEC | FIRE EXTINGUISHER CABINET |
| | FF | FINISHED FLOOR |
| | FG | FLOAT GLASS |
| | FIN | FINISH |
| | FLASH | FLASHING |
| | FLR | FLOOR |
| | FOF | FACE OF FINISH |
| | FOS | FACE OF STUDS |
| | FW | FACE OF WALL |
| | FP | FIRE PROTECTION |
| | FR | FRAME |
| | FRMG | FRAMING |
| | FRP | FIBERGLASS REINFORCED PANEL |
| | FRT | FREEZER |
| | FT | FEET / FIRE TREATED |
| | FTG | FOOTING |
| | FURN | FURNISH / FURNISHINGS |
| | FURR | FURRING |
| | FUT | FUTURE |
| | FWP | FABRIC WRAP PANEL |

| | | |
|----------|-------|-----------------------------|
| G | GA | GENERAL |
| | GA | GAUGE |
| | GALV | GALVANIZED |
| | GB | GRAB BAR |
| | GC | GENERAL CONTRACTOR |
| | GDC | GYMNASIUM DIVIDER CURTAINS |
| | GL | GLASS / GLAZING / GLAZED |
| | GLAM | GLUE LAMINATED WOOD |
| | GSB | GYPSUM WALL BOARD |
| | GP | GYPSUM |
| H | H | HIGH |
| | HC | HOLLOW CORE |
| | HDBD | HARDBOARD |
| | HDR | HEADER |
| | HWDW | HARDWOOD |
| | HWDW | HARDWARE |
| | HM | HOLLOW METAL |
| | HNR | HANDRAILS |
| | HOLD | HOLD TO INDICATED DIMENSION |
| | HORIZ | HORIZONTAL |
| | HP | HIGH POINT |
| | HR | HOUR |
| | HSPK | HOUSEKEEPING |
| | HT | HEIGHT |
| J | J | JOINT |
| | JAN | JANITOR |
| | JBE | JOIST BEARING ELEVATION |
| | JST | JOIST |
| | JT | JOINT |
| K | KIT | KITCHEN |
| | KD | KNOCK OUT |
| | KP | KICK PLATE |
| L | L | LEFT / LENGTH |
| | LAB | LABORATORY |
| | LAM | LAMINATED |
| | LAV | LAVATORY |
| | LB | POUND |
| | LH | LEFT-HAND |
| | LHR | LEFT-HAND REVERSED |
| | LUR | LOCKER |
| | LP | LOW POINT |
| | LR | LIVING ROOM |
| | LSC | NFPA 101 LIFE SAFETY CODE |
| | LSG | LAMINATED SAFETY GLASS |
| | LT | LIGHT |
| | LWT | LIGHTWEIGHT |
| | LVT | LUXURY VINYL TILE |
| M | MA | MEDICAL AIR |
| | MACH | MACHINE |
| | MAINT | MAINTENANCE / MAINTAIN |
| | MAS | MASONRY |
| | MATL | MATERIAL |

| | | |
|----------|--------|---|
| M | MAX | MAXIMUM |
| | MBR | MASTER BEDROOM |
| | MC | MECHANICAL CONTRACTOR |
| | MCW | MINERAL CORE WOOD |
| | MDF | MEDIUM DENSITY FIBERBOARD |
| | MECH | MECHANICAL |
| | MED | MEDICAL / MEDICINE |
| | MEMB | MEMBRANE |
| | MEZZ | MEZZANINE |
| | MFR | MANUFACTURER / MANUFACTURING |
| | MIN | MINIMUM / MINUTE |
| | MIR | MIRROR |
| | MISC | MISCELLANEOUS |
| | MKBD | MARKER BOARD |
| | MO | MASONRY OPENING |
| | MOD | MODIFY / MODULE |
| | MIP | METAL PANEL |
| | MTC | METAL TOILET COMPARTMENT |
| | MTD | MOUNTED |
| | MTL | METAL |
| | MULL | MULLION |
| | MULT | MULTIPLE |
| | MWP | MODULAR/FOLDING PARTITION |
| N | N | NORTH / NITROGEN |
| | N2O | NITROUS OXIDE |
| | N/A | NOT APPLICABLE |
| | NIC | NOT IN CONTRACT |
| | NO | NUMBER |
| | NOM | NOMINAL |
| | NR | NOT RATED |
| | NTS | NOT-TO SCALE |
| O | O2 | OXYGEN |
| | O/C | ON-CENTER |
| | OA | OVERALL |
| | OD | OUTSIDE DIAMETER / OUTSIDE DIMENSION |
| | OFCI | OWNER FURNISHED AND CONTRACTOR INSTALLED |
| | OFF | OFFICE |
| | OFOI | OWNER FURNISHED AND OWNER INSTALLED |
| | OH | OVERHEAD |
| | OPNG | OPENING |
| | OPP | OPPOSITE |
| | OSB | ORIENTED STRAND BOARD |
| | OZ | OUNCE |
| P | P | POWER |
| | PA | PUBLIC ADDRESS |
| | PB | PARTICLE BOARD |
| | PC | PRECAST |
| | PERF | PERFORATED |
| | PERP | PERPENDICULAR |
| | PG | PLATE GLASS |
| | PH | PHASE |
| | PIR | POLYISOCYANURATE RIGID INSULATION |
| | PL | PLATE / PROPERTY LINE |
| | PLAM | PLASTIC LAMINATE |
| | PLAS | PLASTER |
| | PLYWD | PLYWOOD |
| | PNL | PANEL |
| | PNT | PAINT |
| | POL | POLYMER |
| | PP | PUSH PLATE |
| | PR | PAIR |
| | PREFAB | PREFABRICATE |
| | PSF | POUNDS PER SQUARE FOOT |
| | PSI | POUNDS PER SQUARE INCH |
| | PT | PRESERVATIVE TREATED / POINT / POST-TENSIONED |
| | PTC | PLASTIC TOILET COMPARTMENT |
| | PTD | PAPER TOWEL DISPENSER |
| | PVC | POLYVINYL CHLORIDE |
| | PVMT | PAVEMENT |
| | PWC | ROTECTIVE WALL COVERING |

| | | |
|----------|--------|---|
| Q | QT | QUARRY TILE |
| | QTR | QUARTER |
| R | R | RISER / RADIUS |
| | R/S | ROD & SHELF |
| | RAD | RADIUS |
| | RB | RESILIENT BASE |
| | RCP | REFLECTED CEILING PLAN |
| | RD | ROOF DRAIN / ROAD |
| | REBAR | REINFORCING BAR |
| | REC | RECESSED |
| | RECEP | RECEPTION |
| | RECP | RECEPTACLE |
| | REF | REFERENCE |
| | REFR | REFRIGERATOR |
| | REG | REGISTRATION / REGISTER |
| | REIN | REINFORCED |
| | REM | REMOVE / REMOTE |
| | REQ(D) | REQUIRE(D) |
| | RES | RESILIENT |
| | RES | RESINOUS FLOORING |
| | RET | RETAINING / RETURN |
| | REV | REVERSE / REVISION |
| | RH | RIGHT HAND |
| | RL | RAINLEADER |
| | RM | ROOM |
| | RO | ROUGH OPENING |
| | ROW | RIGHT OF WAY |
| | RSP | RESILIENT SHEET FLOOR |
| | RTF | RESILIENT TILE FLOOR |
| S | S | SOUTH / SHELF |
| | SB | SPLASH BLOCK |
| | SC | SOLID CORE / SHOWER CURTAINS |
| | SCD | SEAT COVER DISPENSER |
| | SCHED | SCHEDULE |
| | SCR | SHOWER CURTAIN ROD |
| | SCS | SPECIALTY CEILING SYSTEM (WOOD/METAL) |
| | SD | SOAP DISPENSER / SEE DETAIL |
| | SEC | SECOND |
| | SECT | SECTION |
| | SF | SQUARE FEET |
| | SGC | STAGE CURTAINS |
| | SHT | SHEET |
| | SHTG | SHEATHING |
| | SHWR | SHOWER |
| | SIM | SIMILAR |
| | SL | SLOPE |
| | SLANT | SEALANT |
| | SND | SANITARY NAPKIN DISPENSER |
| | SNW | SANITARY NAPKIN WASTE RECEPTAL |
| | SP | SPANDREL PANEL |
| | SPEC | SPECIFICATION |
| | SQ | SQUARE |
| | SSP | SOLID SURFACE |
| | SSTL | STAINLESS STEEL |
| | ST | STONE |
| | PLAM | PLASTIC LAMINATE |
| | PLAS | PLASTER |
| | PLYWD | PLYWOOD |
| | PNL | PANEL |
| | PNT | PAINT |
| | POL | POLYMER |
| | PP | PUSH PLATE |
| | PR | PAIR |
| | PREFAB | PREFABRICATE |
| | PSF | POUNDS PER SQUARE FOOT |
| | PSI | POUNDS PER SQUARE INCH |
| | PT | PRESERVATIVE TREATED / POINT / POST-TENSIONED |
| | PTC | PLASTIC TOILET COMPARTMENT |
| | PTD | PAPER TOWEL DISPENSER |
| | PVC | POLYVINYL CHLORIDE |
| | PVMT | PAVEMENT |
| | PWC | ROTECTIVE WALL COVERING |

| | | |
|----------|--------|----------------------------------|
| T | T | TOP / TREAD / TILE |
| | T&B | TOP & BOTTOM |
| | T&G | TONGUE & GROOVE |
| | TA | TOILET ACCESSORIES |
| | TB | TOWEL BAR |
| | TBD | TO BE DETERMINED |
| | TBE | TOP OF BEAM ELEVATION |
| | TDE | TOP OF DECKING ELEVATION |
| | TEL | TELEPHONE |
| | TEMP | TEMPERED / TEMPORARY / TEMPERATE |
| | TER | TERRAZZO |
| | TFE | TOP OF FOOTING ELEVATION |
| | TFE | TOP OF FINISH FLOOR |
| | TG | TEMPERED GLASS |
| | THK | THICK |
| | THS | THRESHOLD |
| | TJE | TOP OF JOIST ELEVATION |
| | TKBD | TACK BOARD |
| | TOILET | TOILET |
| | TOL | TOLERANCE |
| | TOPO | TOPOGRAPHICAL |
| | TPD | TOILET PAPER DISPENSER |
| | TRS | TRANSITION STRIPS |
| | TSE | TOP OF SLAB ELEVATION |
| | TWE | TOP OF WALL ELEVATION |
| | TYP | TYPICAL |
| U | UC | UNDER COUNTER |
| | UG | UNDERGROUND |
| | UNFIN | UNFINISHED |
| | UNO | UNLESS NOTED OTHERWISE |
| | UPH | FABRIC/VINYL |
| | UTIL | UTILITY |
| V | V | VINYL |
| | VAC | VACUUM |
| | VAR | VARIABLE / VARNISH / VARIES |
| | VCT | VINYL-COMPOSITION TILE |
| | VER | VERIFY |
| | VERT | VERTICAL |
| | VEST | VESTIBULE |
| | VIF | VERIFY IN FIELD |
| | VOL | VOLUME |
| | VWC | VINYL WALL COVERING |
| W | W | WEST / WIDE / CLOTHES WASHER |
| | W/ | WITH / WHERE |
| | W/O | WITHOUT |
| | WAIN | WAINSCOT |
| | WC | WATER CLOSET |
| | WD | WOOD |
| | WDT | WINDOW TREATMENTS |
| | WOW | WINDOW |
| | WG | WALL GUARD |
| | WH | WATER HEATER / WALL HYDRANT |
| | WP | WATER PROOF |
| | WR | WASTE RECEPTACLE |
| | WRL | WALL RAIL |
| | WS | WEATHER STRIPPING |
| | WT | WEIGHT |
| X | X | EX |
| | XFMR | POWER TRANSFORMER |
| | XPS | EXTRUDED POLYSTYRENE |
| Y | YD | YARD |
| Z | Z | SPECIAL SYMBOLS |
| | # | POUND / NUMBER |
| | / | PER |
| | @ | AT |
| | ° | DEGREE |
| | Ø | DIAMETER |
| | ± | CENTERLINE |
| | ⊥ | PERPENDICULAR |

EAPC

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Interior Design Industrial

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www.eapc.net

CONSULTANTS

CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY: **WILLISTON**
STATE: **NORTH DAKOTA**

ISSUE DATES

| | | |
|------|------------------------|-----------|
| CD | CONSTRUCTION DOCUMENTS | 5/19/2023 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: **20224620**
DRAWN BY: **EK**
CHECKED BY: **BD**

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Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
GENERAL ARCHITECTURAL INFORMATION

A001

KEYNOTE LEGEND:

- <<< INDICATES KEYNOTE ON PLAN
- AS 01 BIKE RACK (9) - SEE SPEC FOR ADDITIONAL DETAILS
- AS 02 BENCH (6) - SEE SPEC FOR ADDITIONAL DETAILS
- AS 03 SHOWER COLUMN (1) - SEE MECH FOR ADDITIONAL DETAILS
- AS 04 SHADE STRUCTURE, (3) 15'-0" X 15'-0" - (FUTURE PHASE)
- AS 05 SHADE UMBRELLA, (3) 20' DIA. - SEE SPEC FOR ADDITIONAL DETAILS - FUTURE PHASE
- AS 06 LEISURE POOL - SEE AQUATICS FOR ADDITIONAL DETAILS
- AS 07 SOD / SUNNING AREAS - SEE SPEC FOR ADDITIONAL DETAILS
- AS 08 SEED AREA - SEE SPEC FOR ADDITIONAL DETAILS
- AS 09 WATER SLIDES - SEE SPEC FOR ADDITIONAL DETAILS
- AS 10 SHADE STRUCTURE, (4) 20'-0" X 20'-0" - (FUTURE PHASE)
- AS 11 FITNESS POOL - (FUTURE PHASE)
- AS 12 NINJA CROSS - (FUTURE PHASE)
- AS 13 TRASH ENCLOSURE, SEE SHEET A004 - SEE CIVIL FOR ADDITIONAL DETAILS
- AS 15 SLIP RESISTANT CONCRETE POOL DECK - SEE CIVIL
- AS 16 5'-0" HIGH PERIMETER GALVANIZED CHAIN LINK FENCE - SEE CIVIL
- AS 17 CAR DROP-OFF LANE - SEE CIVIL
- AS 18 ACCESSIBLE PARKING - SEE CIVIL
- AS 19 PROPERTY LINE / EXISTING 6'-0" HIGH PERIMETER FENCE
- AS 20 SHADE TREE - CAKUE 1: AT 4'-1/2' ABOVE GRADE
- AS 21 SMALL UPRIGHT EVERGREEN TREES - 2'-0" HEIGHT ABOVE GRADE (5 GALLON)
- AS 22 LARGE UPRIGHT EVERGREEN TREES - 4'-0" HEIGHT ABOVE GRADE
- AS 23 SHRUB - 2'-0" HEIGHT ABOVE GRADE (2 GALLON)
- AS 24 FRONT ENTRY GATE - SEE DETAIL 1/A004

LANDSCAPING COMPLIANCE - SECTION 25.R

LOT SIZE: 116080 SF - 2.66 ACRES
 PLANTING REQUIREMENTS: 5 PLANT UNITS PER 1,000 SQ. FT.
 116080 SQ.FT. DIVIDED BY 1,000 SQ.FT. = 116 x MIN 5 UNITS = 580 UNITS

TABLE 1: PLANT UNITS
 -VEGETATION PROVIDED
 SHADE TREES - 30 TREES = 300 UNITS
 SMALL UPRIGHT EVERGREEN TREES - 16 TREES = 80 UNITS
 LARGE UPRIGHT EVERGREEN TREES - 16 TREES = 160 UNITS
 SHRUBS - 50 SHRUBS = 50 UNITS
 TOTAL UNITS PROVIDED - 590 UNITS



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 www.olcdesigns.com

CLIENT
**WILLISTON
 COMMUNITY
 BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
 WORLD**

CITY **WILLISTON**
 STATE **ND**

ISSUE DATES

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| MARK | DESCRIPTION | DATE |

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 Date: 5/19/2023 REG. NO. 1718

DRAWING TITLE
**ARCHITECTURAL SITE
 & LANDSCAPING PLAN**

A003

Plot Date: 5/20/2023 6:47:18 PM

Flare Top Trash Receptacle



Simple Reliability

Flare Top Trash Receptacle, built with reliability in mind. This tough, fully-welded commercial grade steel receptacle is a one-piece design with vertical slats and two horizontal bands at the neck and base that show off its simple clean lines.

MODEL CBTR-FT-BK

'U' Rack | Bicycle Storage Rack



Secure and Easy Bicycle Storage

The 'U' Rack provides economical, safe and convenient bicycle storage which is ideal for apartment buildings, retail outlets, office malls or other settings where appearance is important but economy is a consideration.

Meets Class II guidelines by providing exceptional support for the whole bicycle, frame and wheel, using just a single U-lock. This storage rack supports each bicycle in a stable upright position and holds up to two bicycles, one on each side. Constructed with 1-7/8" O.D. or 2-3/8" O.D. Schedule 40 steel tubing.

Wilmington Collection Park Bench



A Sophisticated Complement

Premium park bench seating from the Wilmington Collection, a sophisticated accent for spaces ranging from indoor lobbies or hallways to outdoor parks or plazas.

Dimensions

Model 974-S6 - 76-1/4"L x 29"W x 32-5/16"H

These park benches are designed with broad high arching armrests, which show-off the precision line detailing of the cast aluminum frame. Engineered ready for a wide variety of applications, the footings are designed for both portable and surface mount installations.

8 TRASH RECEPTACLE w/ RAIN BONNET
A004 NOT TO SCALE

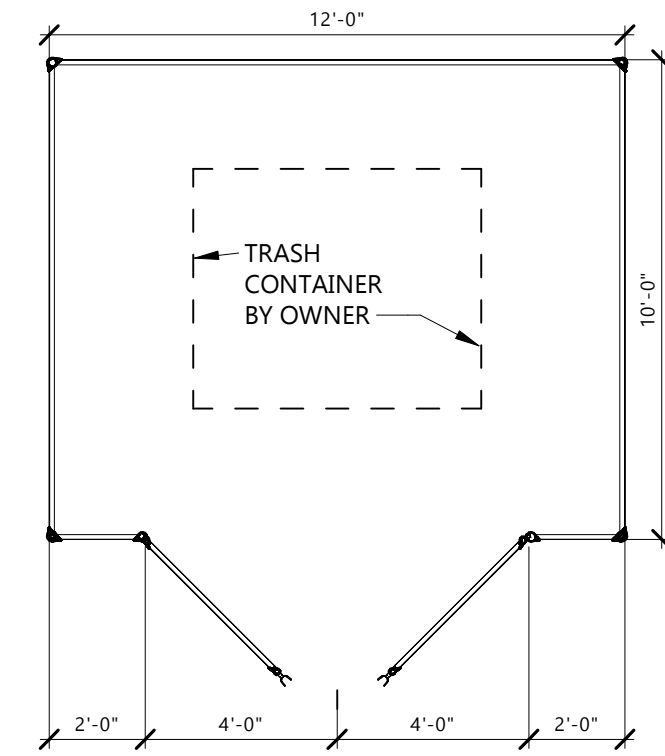
Manufacturer: Belson Outdoors (Basis of Design)
Model: CBTR-FT-BK with Rain Bonnet
Color: Black
Mount Type: Surface

7 BIKE RACK
A004 NOT TO SCALE

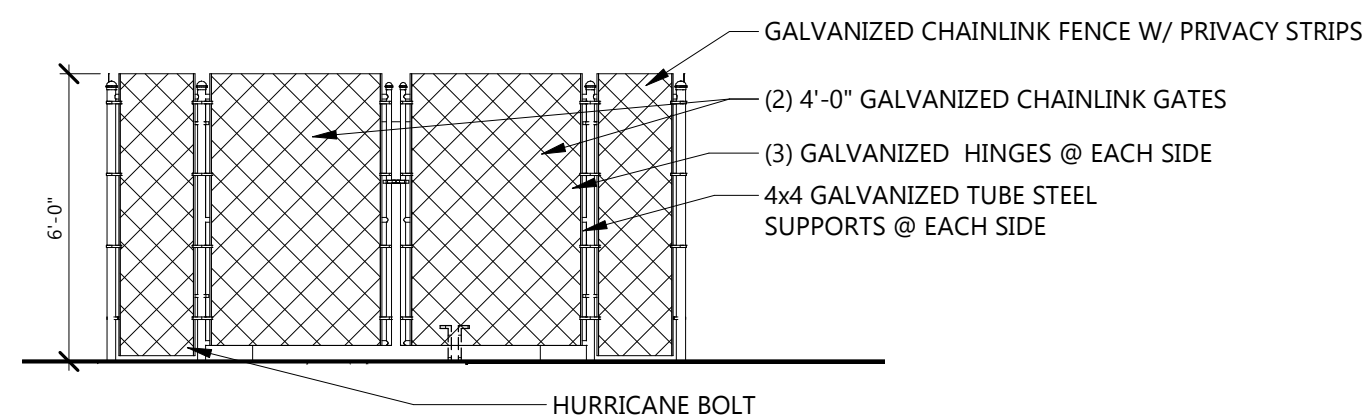
Manufacturer: Belson Outdoors (Basis of Design)
Model: U190-SF-P
Color: Black
Mount Type: Surface

6 PARK BENCH
A004 NOT TO SCALE

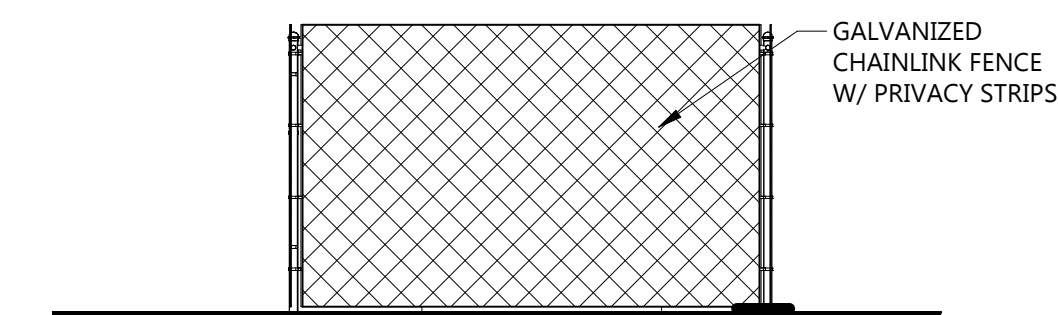
Manufacturer: Belson Outdoors (Basis of Design)
Model: 947-S6
Color: Black
Mount Type: Surface



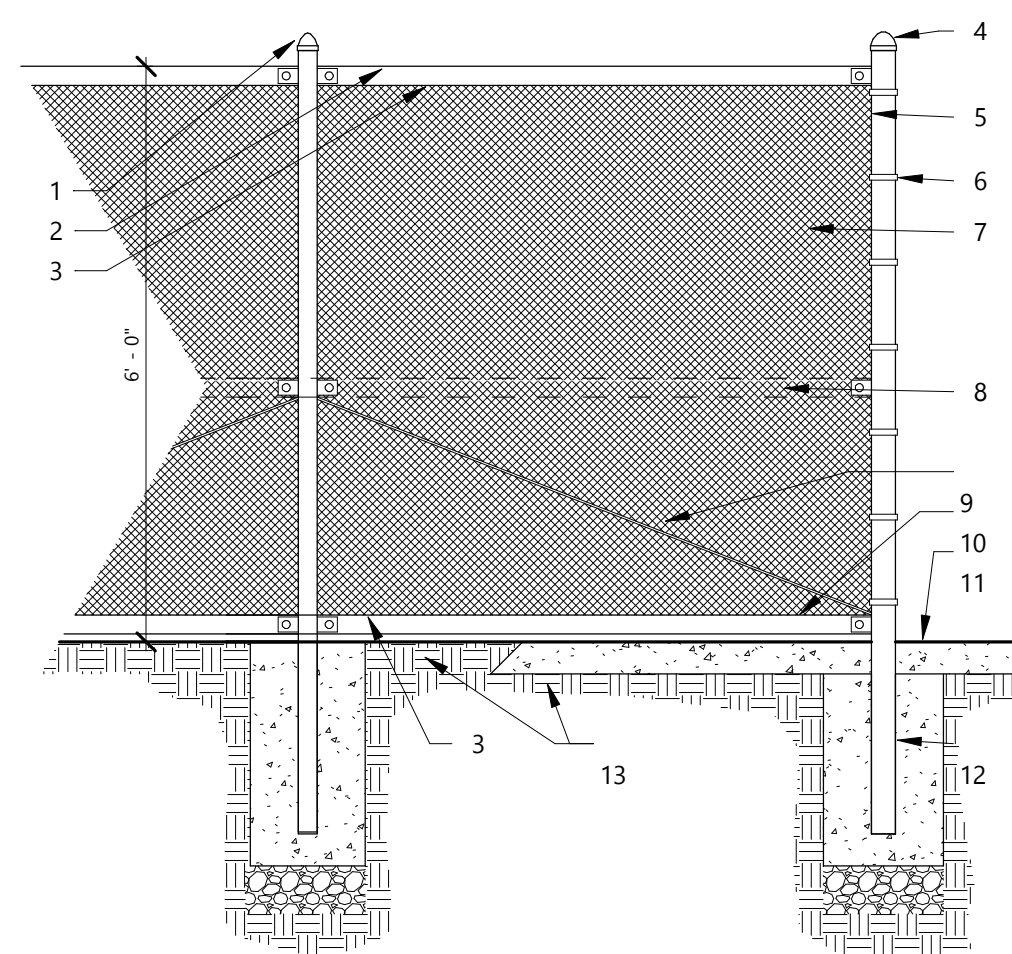
5 TRASH ENCLOSURE PLAN
A004 1/4" = 1'-0"



4 TRASH - FRONT VIEW @ GATE
A004 1/4" = 1'-0"

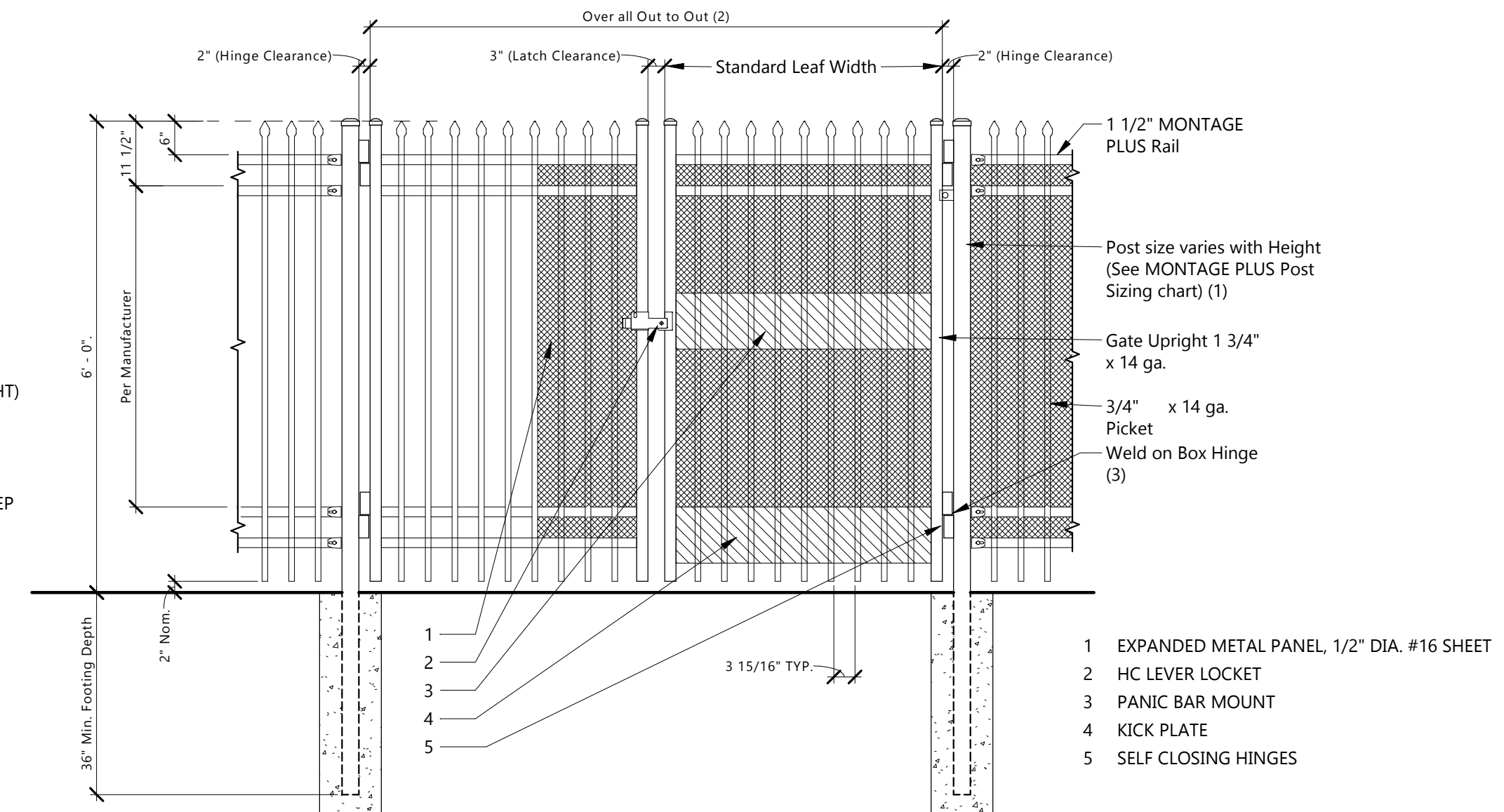


3 TRASH - SIDE VIEW
A004 1/4" = 1'-0"



2 CHAINLINK FENCE AT PERIMETER
A004 1/2" = 1'-0"

- 1 LINE POSTS
- 2 TOP RAIL
- 3 NUCKLED SELVAGE
- 4 END CORNER & GATE POSTS
- 5 STRETCHER BAR
- 6 STRETCHER BAR BAND
- 7 1 3/4" MESH VINYL FINISH
- 8 MID RAILS (ON ALL FENCES OVER 6' HT)
- 9 CROSS SUPPORT
- 10 BOTTOM RAIL
- 11 CONCRETE WALKWAY
- 12 CONCRETE FOOTING 12" DIA x 4' DEEP
- 13 COMPACTED SUBGRADE
- 14 6" FREE DRAINING AGGREGATE



1 DOUBLE GATE / FENCING AT BREEZEWAY
A004 1/2" = 1'-0"

- 1 EXPANDED METAL PANEL, 1/2" DIA. #16 SHEET
- 2 HC LEVER LOCKET
- 3 PANIC BAR MOUNT
- 4 KICK PLATE
- 5 SELF CLOSING HINGES

| DD | DESIGN DEVELOPMENT | 01/20/2023 |
|------|--------------------|------------|
| MARK | DESCRIPTION | DATE |

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DRAWN BY: **EK**
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DRAWING TITLE
SITE DETAILS



400 SANTA FE DRIVE
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CLIENT
**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

ISSUE DATS

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| MARK | DESCRIPTION | DATE |

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DRAWING TITLE
FIRST FLOOR PLAN

A201

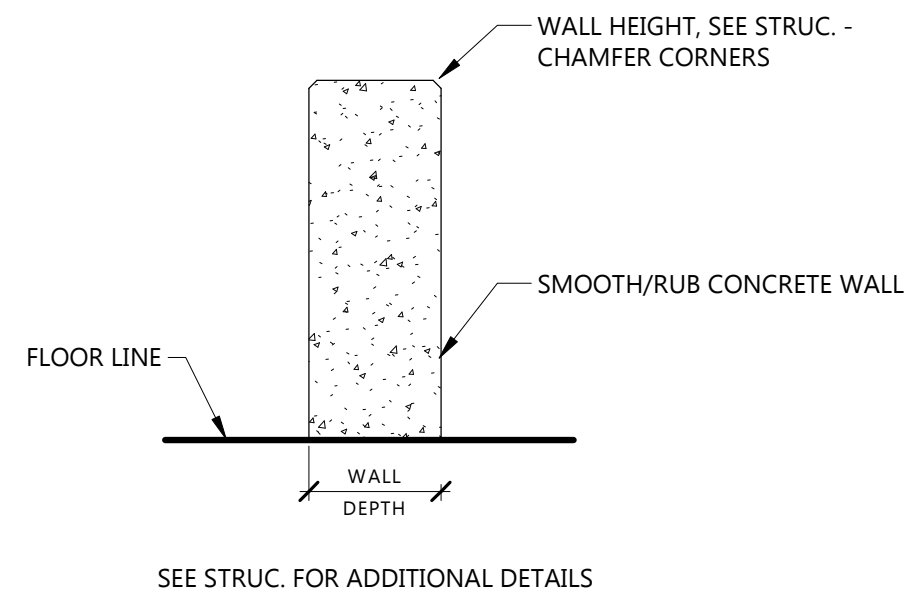
KEYNOTE LEGEND:

- <<< INDICATES KEYNOTE ON PLAN
- AE 37 WASHER/DRYER BY OWNER - SEE MECH AND ELEC FOR HOOKUPS
- AE 38 FLOOR JANITOR SINK - SEE MECH
- AE 39 CANOPY COLUMN, PREP STEEL AND GRIND SMOOTH ALL WELDS AND UNEAVEN SURFACES FOR PAINT - SEE STRUCT
- AE 02 WATER FOUNTAINS, SEE MECH., CMU BLOCK TO BE SMOOTH PLAIN FACE AT WATER FOUNTAIN SURROUND
- AE 15 SOLID SURFACE COUNTER WITH METAL SUPPORT BRACKETS
- AE 20 SPLASH BLOCKS
- AS 16 5'-0" HIGH PERIMETER GALVANIZED CHAIN LINK FENCE - SEE CIVIL
- AS 24 FRONT ENTRY GATE - SEE DETAIL 1/A004

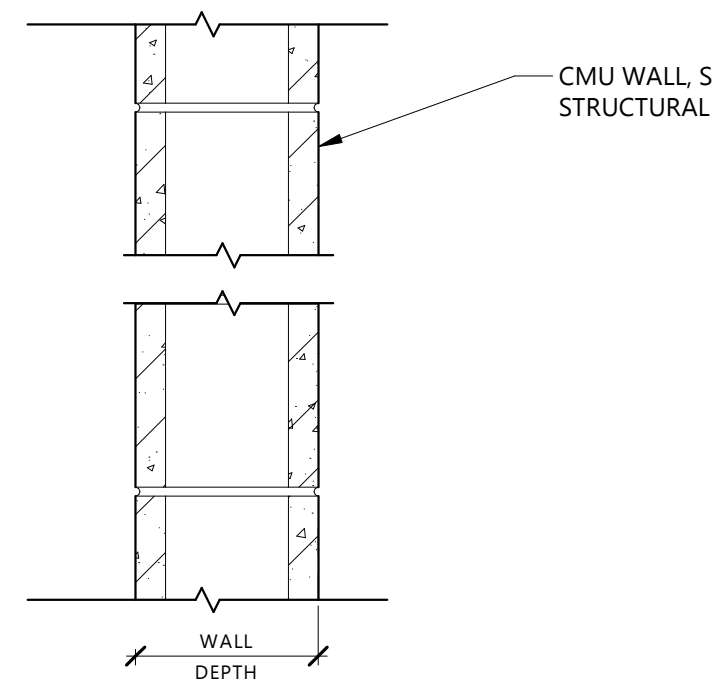
GENERAL NOTES

ATTENTION-CONTRACTORS, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, TRADESPERSONS AND ALL USERS OF THESE DRAWINGS:

1. CAREFULLY AND THOROUGHLY REVIEW THE GENERAL NOTES FIRST BEFORE USING THE DRAWINGS. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THE QUALIFICATIONS LISTED BELOW.
2. BE ALERTED THAT WORK YOU ARE INTERESTED IN MAY NOT BE CONTAINED ALL TOGETHER IN ONE PLACE OR IN ONE SERIES OF DRAWINGS (ARCH., STRUCT., MECH., ETC.), OR IN ONE SPECIFICATION SECTION. REQUIREMENTS FOR ELECTRICAL, MECHANICAL, PLUMBING, AND STRUCTURAL CAN ALSO BE SHOWN ON ARCHITECTURAL DRAWINGS; REQUIREMENTS FOR ANY DISCIPLINE CAN BE SHOWN ON THE DRAWINGS OF OTHER DISCIPLINES. REQUIREMENTS FOR ONE DISCIPLINE CAN BE SHOWN BOTH WITH THAT DISCIPLINE AND ANOTHER AS WELL. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED. TO DEFINE WORK IN THE MOST LOGICAL PLACE, AND TO DESCRIBE WORK IN ONE PLACE ONLY. HOWEVER, REMEMBER YOUR SCOPE OF WORK CAN BE CONTAINED IN VARIOUS PLACES WITH VARYING DESCRIPTIONS. DO NOT CONSIDER THERE IS ONLY ONE CUSTOMARY PLACE TO LOCATE YOUR WORK. DO NOT OMIT WORK FROM YOUR SCOPE BECAUSE THE ENTIRE SET OF DOCUMENTS WAS NOT REVIEWED. DO NOT PRESUME YOUR SCOPE OF WORK IS SINGULARLY DEFINED. THE ENTIRE SET OF CONTRACT DOCUMENTS DEFINES THE SCOPE OF WORK FOR THE ENTIRE PROJECT AS WELL AS ANY PARTICULAR TRADE, ETC. YOU MUST REVIEW ALL DRAWING SHEETS AND SPECIFICATIONS DIVISIONS/SECTIONS TO DETERMINE THE EXTENT OF YOUR WORK.
3. TYPICALLY MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS SHOW EQUIPMENT, PIPING, ETC. IN A DIAGRAMMATIC WAY WITHOUT DIMENSIONING. THESE DRAWINGS DO NOT NECESSARILY ACKNOWLEDGE ARCHITECTURAL DETAILING FOR SHAFTS, CHASES, EASEMENTS, ETC. GENERAL CONTRACTOR TO COORDINATE THE LOCATIONS OF ALL M.E.P. EQUIPMENT, FIXTURES, PIPING, ETC. WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. THIS SET OF DOCUMENTS IS ORGANIZED TO CONVEY INFORMATION AS CLEARLY AS POSSIBLE IN ONE PLACE.
 - A. THE WALL TYPES ARE DESCRIBED IN A SCHEDULE, AND KEYED ON THE FLOOR PLAN SHEETS A101, A102, ETC.
 - B. DOORS ARE DESCRIBED IN A SCHEDULE ON SHEET A600, AND KEYED ON THE FLOOR PLAN SHEETS.
 - C. GLAZING FRAMES ARE DESCRIBED IN THE 600 SERIES SHEETS, AND KEYED ON THE FLOOR PLANS.
 - D. MILLWORK, GUARDRAILS, BUILDING EQUIPMENT, AND BUILDING SPECIALTIES ARE DESCRIBED IN SCHEDULES AND IN PLAN AT MULTIPLE LOCATIONS OF THIS DRAWING PACKAGE (REFER TO FULL PACKAGE).
 - E. TOILET ACCESSORIES ARE DESCRIBED IN A SCHEDULE IN THE 600 SERIES, AND KEYED ON SHEETS IN THE 600 SERIES.
5. MECHANICAL, ELECTRICAL AND SPRINKLER FEATURES MUST EXIST IN THE SAME CEILING SPACES. EACH TRADE MUST LAYOUT AND INSTALL THEIR RESPECTIVE CONDITIONS WITH AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THE SPACES. EACH TRADE MUST NOT ASSUME THEIR INSTALLATIONS HAVE BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS PREPARED BY THE OTHER TRADE. EVERY EFFORT HAS BEEN MADE TO COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS, IN THESE DOCUMENTS. THE SPRINKLER DESIGN DOES NOT OCCUR UNTIL THE CONSTRUCTION IS UNDERWAY. SO IT HAS NOT BEEN ACTUALLY INCLUDED IN THESE DOCUMENTS. THERE CAN BE PLACES THAT REQUIRE ADDITIONAL COORDINATION AND MODIFICATIONS. EACH TRADE CONTRACTOR TO REVIEW THEIR REQUIREMENTS WITH THE OTHER TRADE AND PROVIDE COORDINATION DURING SHOP DRAWINGS AND CONSTRUCTION. THIS EFFORT TO BE OVERSEEN BY THE GENERAL CONTRACTOR.
6. ALL REQUESTS FOR ADDITIONAL INFORMATION AND/OR CLARIFICATION MUST BE SUBMITTED TO THE ARCHITECT IN WRITING VIA A PROJECT REQUEST FOR INTERPRETATION(INFORMATION) FORM.



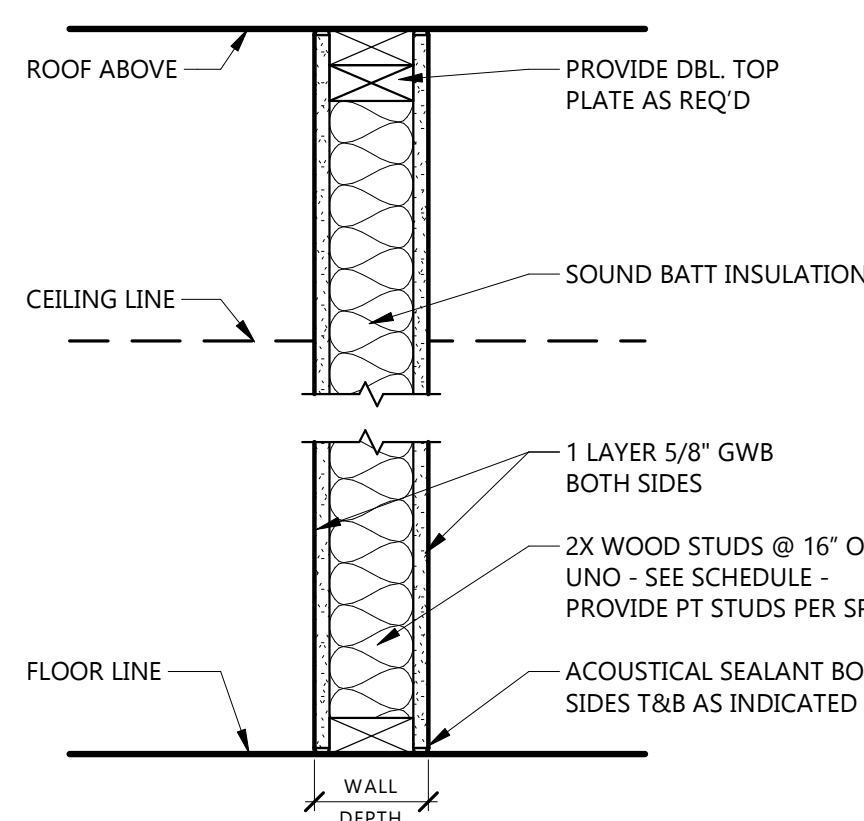
CW 8" CONCRETE WALL



| TYPE MARK | WALL DEPTH | FIRE RATING | FIRE TEST | SOUND ATTENUATION | | NOTES |
|-----------|------------|-------------|-----------|-------------------|-----|-------|
| | | | | SAB | STC | |
| M4 | 4" | | | | | |
| M8 | 8" | | | | | |

SEE EXTERIOR ELEVATIONS FOR BLOCK TYPE AND COLOR

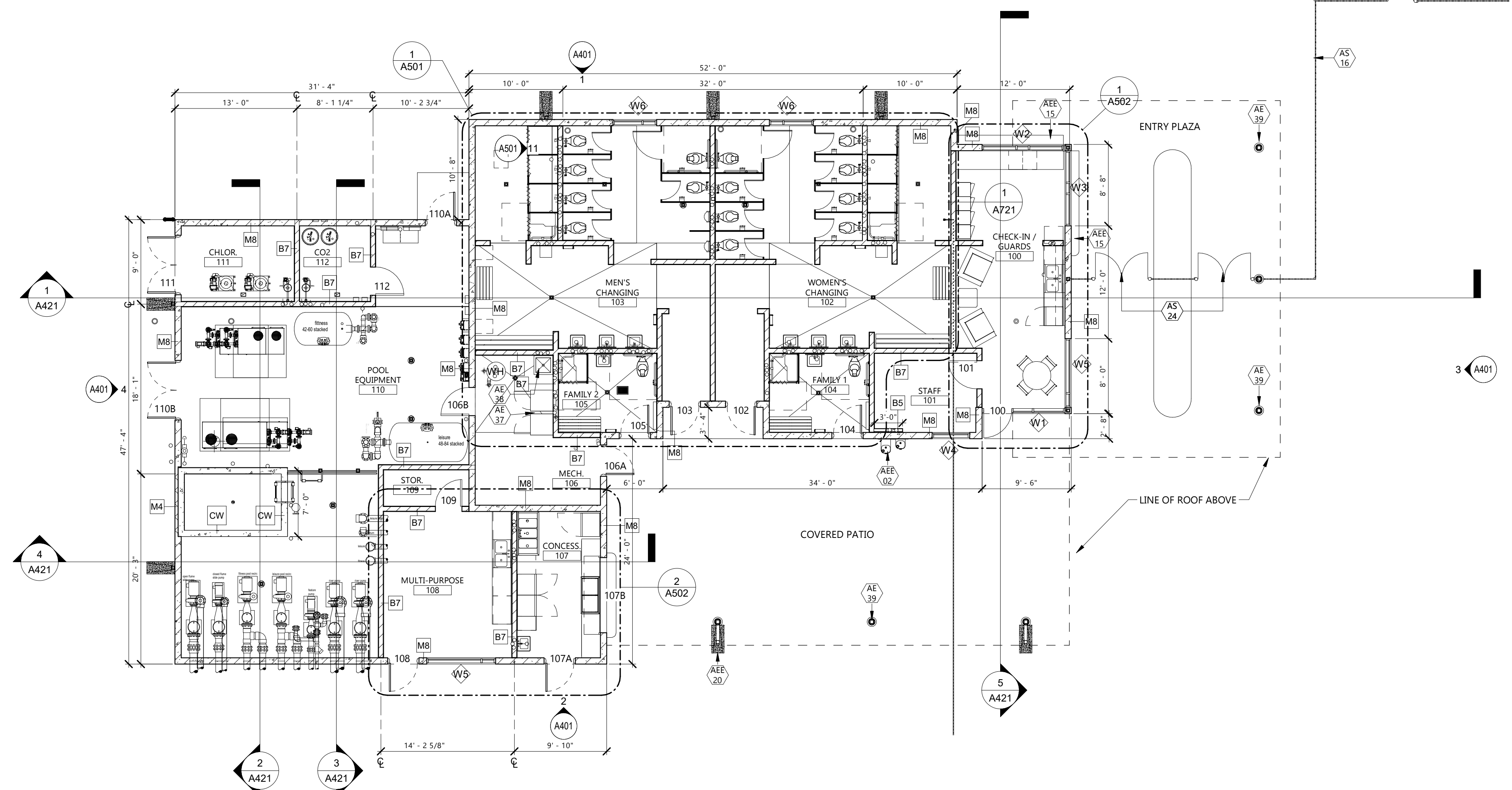
M CMU WALL



| TYPE MARK | STUD SIZE | WALL DEPTH | FIRE RATING | FIRE TEST | SOUND ATTENUATION | | NOTES |
|-----------|-----------|------------|-------------|-----------|-------------------|-----|------------------------|
| | | | | | SAB | STC | |
| B5 | 3 1/2" | 4 1/8" | NR | | 3 1/2" | | ONE SIDE 5/8" GYP. BD. |
| B7 | 5 1/2" | 6 3/4" | NR | | | | |

SEE LIFE SAFETY PLAN FOR N.R. SMOKE-RESISTIVE WALL LOCATIONS

B NON-RATED GWB ON WOOD STUDS



1 FIRST FLOOR PLAN
A201 1/8" = 1'-0"

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BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
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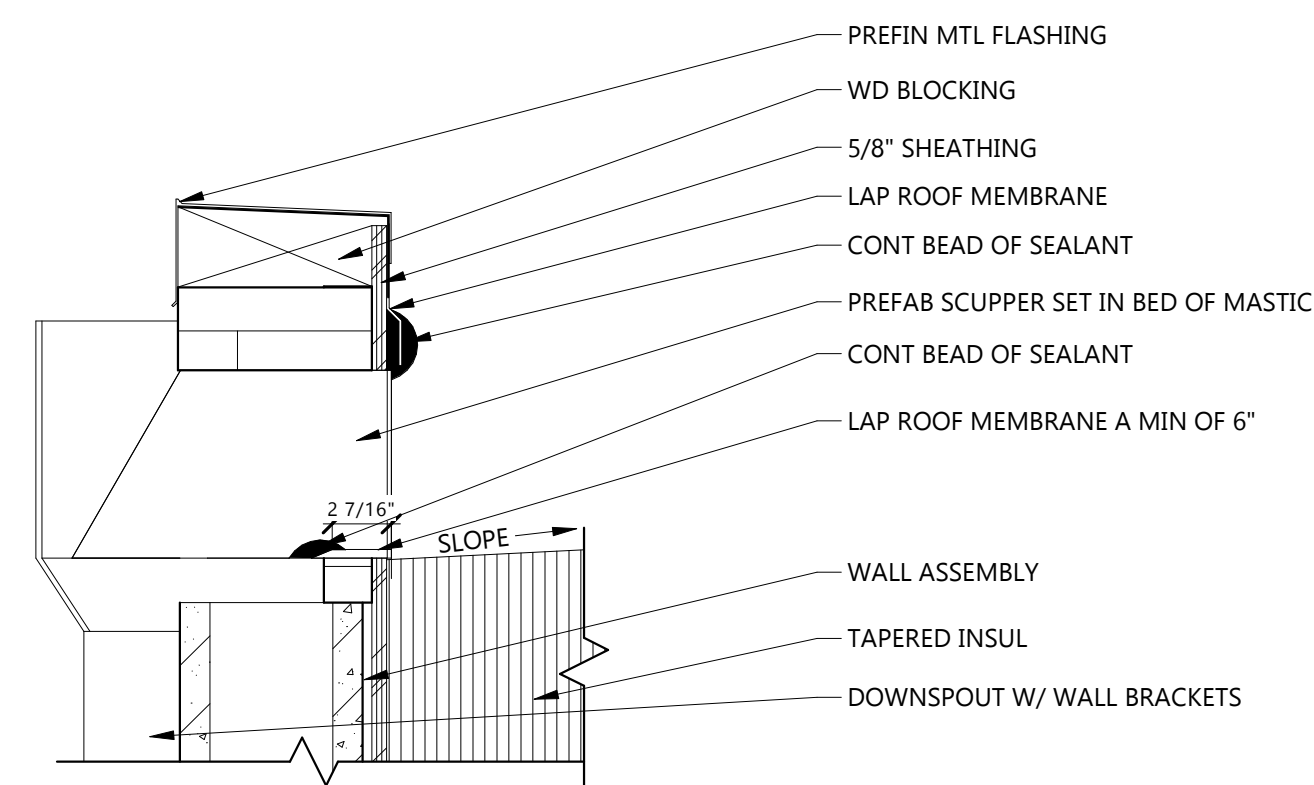
Signature: *[Signature]*
Date: 5/19/2023 REG. NO. : 1718

DRAWING TITLE
ROOF PLAN

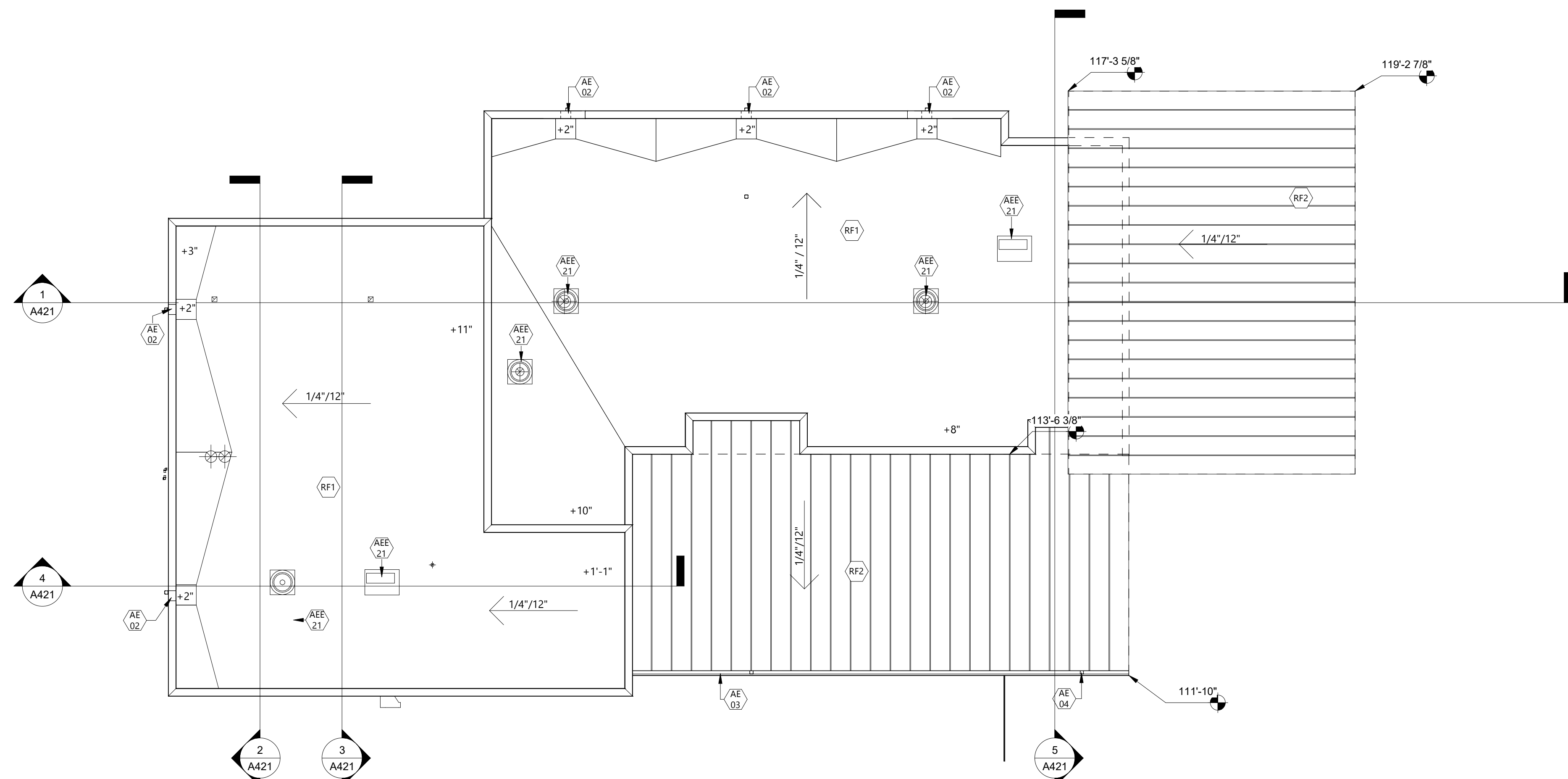
A221

| ROOF TYPES LEGEND | | |
|-------------------|--|--|
| RF1 | | RF-01 FULLY ADHERED WHITE EPDM ROOF MEMBRANE ROOF COVER BOARD RIGID INSUL, VAPOR BARRIER, 3" RIGID INSUL (STAGGER SEAMS), 3/4" PLYWOOD ON WD TRUSSES, Re: STRUCTURE |
| RF2 | | RF-03 2 3/4" STANDING METAL SEAM BEARING PLATE UNDERLAYMENT 3/4" EXTERIOR PLYWD SHEATHING ALUMINUM SOFFIT PANELS - UNDERSIDE |

| KEYNOTE LEGEND: | |
|-----------------|---|
| | <<< INDICATES KEYNOTE ON PLAN |
| AE 02 | ROOF OVERFLOW SCUPPER - SEE DETAIL 3/A221 |
| AE 03 | 6" PREFINISHED ALUM GUTTER |
| AE 04 | 6" PREFINISHED ALUM DOWNSPOUT |
| AEE 21 | MECHANICAL EQUIPMENT - SEE MECH. |



2 SCUPPER DETAIL
A221 1 1/2" = 1'-0"



1 ROOF PLAN
A221 1/8" = 1'-0"



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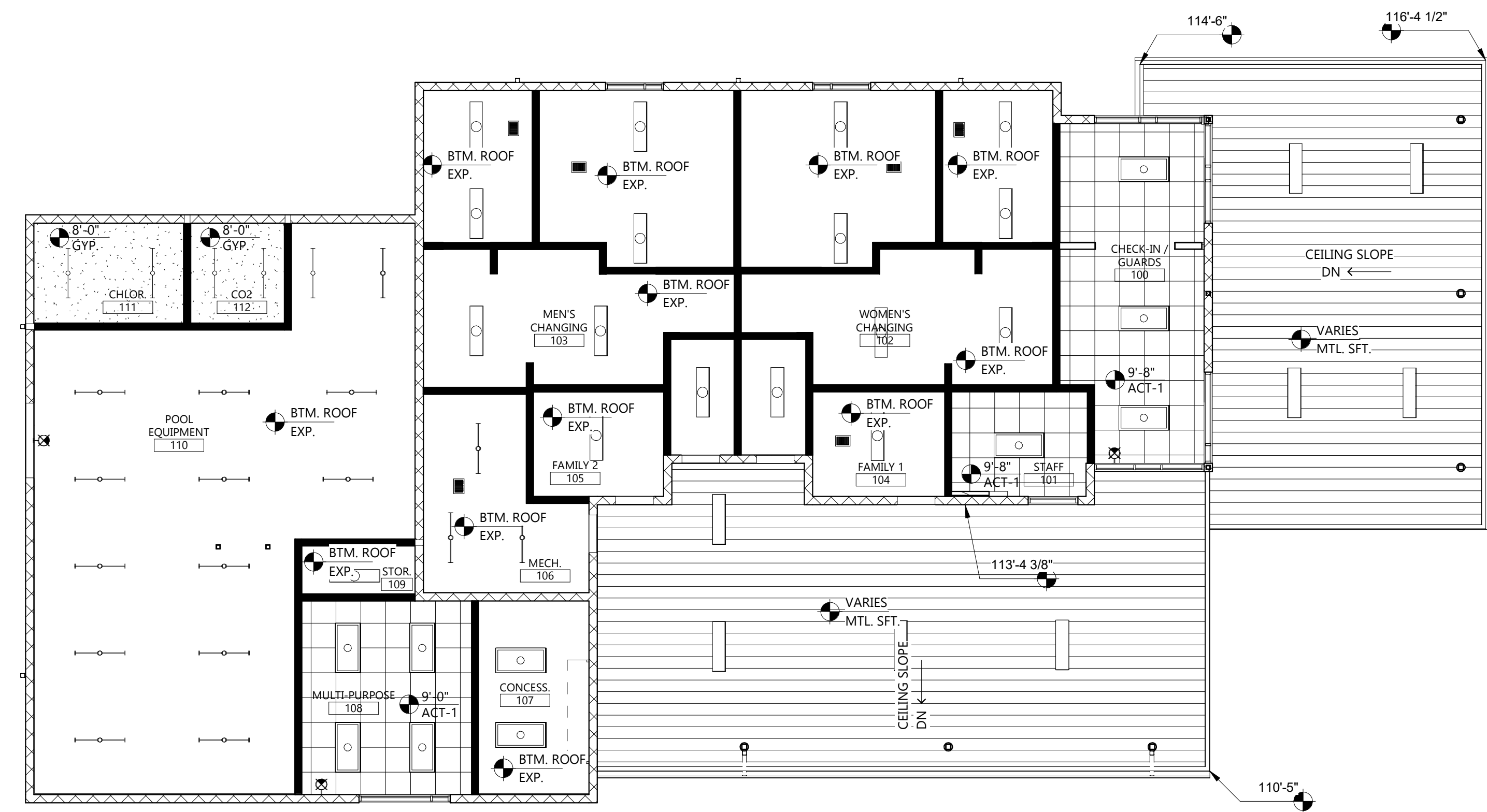
DRAWING TITLE
**FIRST FLOOR
REFLECTED CEILING
PLAN**

CEILING PLAN SYMBOLS

| AIR DISTRIBUTION SYMBOLS | TYPICAL SUSPENDED CEILING GRID |
|---|--------------------------------|
| DIFFUSER SUPPLY | 24" x 48" GRID SHOWN |
| DIFFUSER RETURN | 24" x 24" GRID SHOWN |
| ACCESS PANEL | GYPSON WALL BOARD OR PLASTER |
| SLOT OR LINEAR DIFFUSER OR RETURN | WOOD CEILING |
| CEILING FAN | |
| MISCELLANEOUS | |
| PUBLIC ADDRESS OR AS SHOWN | LIGHT FIXTURES |
| SMOKE DETECTOR | 2x4 LAY-IN |
| VENT | 2x2 LAY-IN |
| | 1x4 LAY-IN |
| WALL HEIGHT | RECESSED INCANDESCENT |
| WALL TO EXTEND FULL HEIGHT TO STRUCTURE ABOVE | EXIT LIGHT |
| GWB TO EXTEND 6" ABOVE CEILING HEIGHT | TRACK LIGHT |

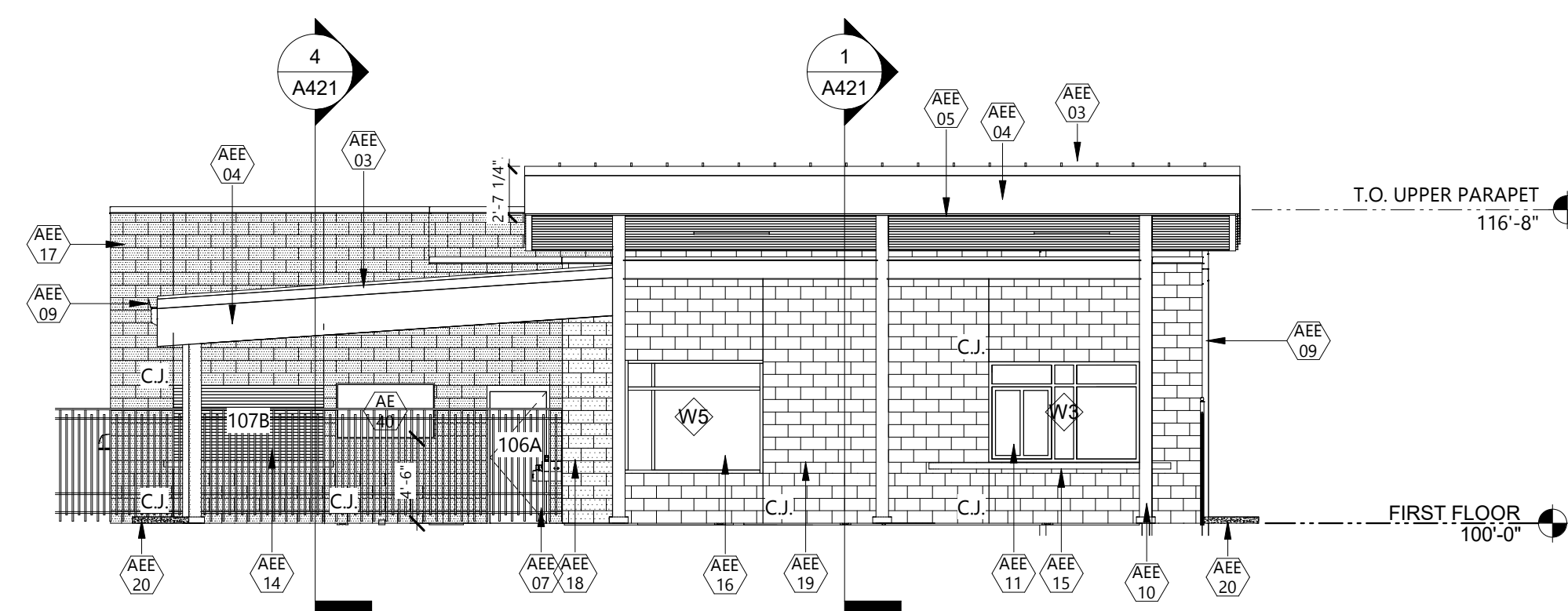
CEILING TYPE LEGEND

| | |
|----------|--|
| ACT | ACOUSTICAL PANEL CEILINGS |
| ACT-1 | ARMSTRONG, KITCHEN ZONE, HUMIGUARD PLUS, 24"X24"X5/8", SUSPENSION SYSTEMS: PRELUDE PLUS XL ALUM. 15/16" EXPOSED TEE |
| GYP | GYPSON BOARD |
| GYP. | 5/8" TYPE X GYPSON BOARD ATTACHED TO UNDERSIDE OF WOOD TRUSSES. TAPE, TEXTURE, PAINT. ALLOW FOR (2) 24" X 6" VENTS IN GYP. ALONG POOL EQUIPMENT ROOM, ARCHITECT TO LOCATE VENTS DURING CONSTRUCTION. |
| MTL SFT. | METAL SOFFIT PANEL |
| MTL SFT. | PREFINISHED ALUMINUM SOFFIT PANELS - COLOR TBD |
| EXP. | EXP. EXPOSED TO STRUCTURE ABOVE PAINT ALL STRUCTURE MEMBERS UNDERSIDE ROOF DECKING, CONDUITS, DUCTWORK, ETC. - ALL EXPOSED ITEMS ON CEILING |

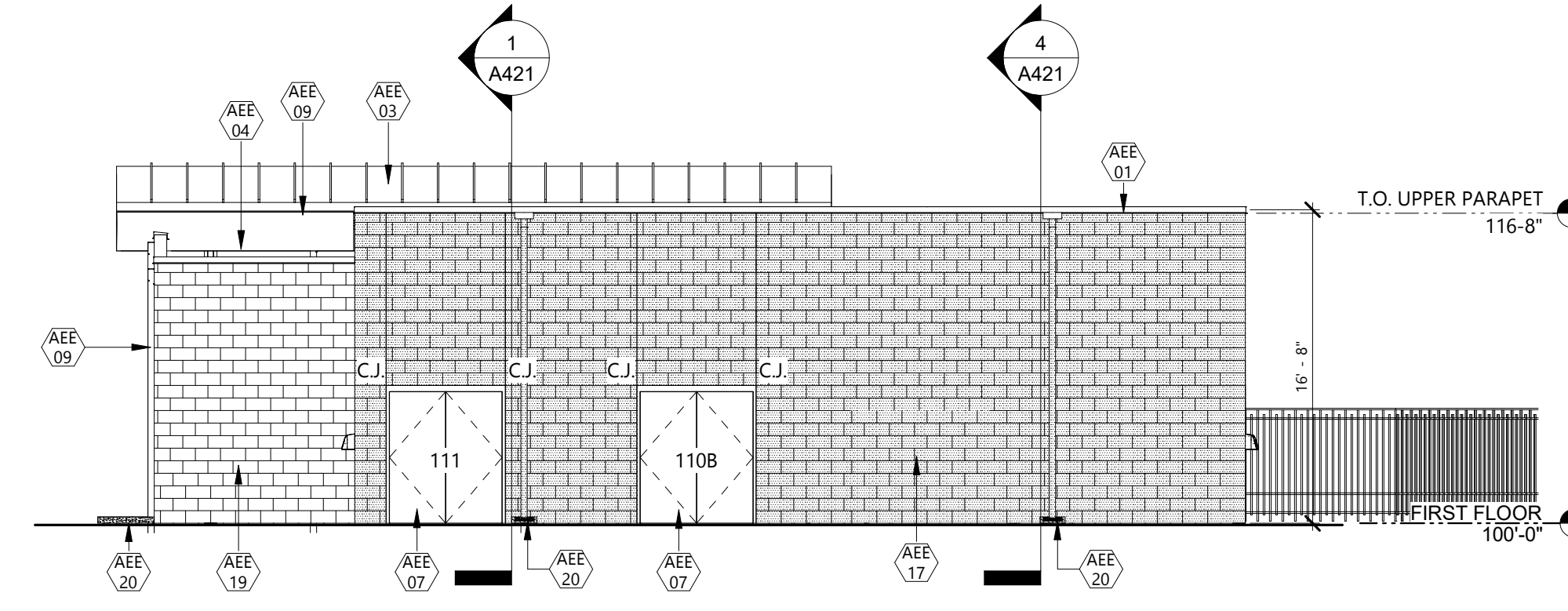


KEYNOTE LEGEND:

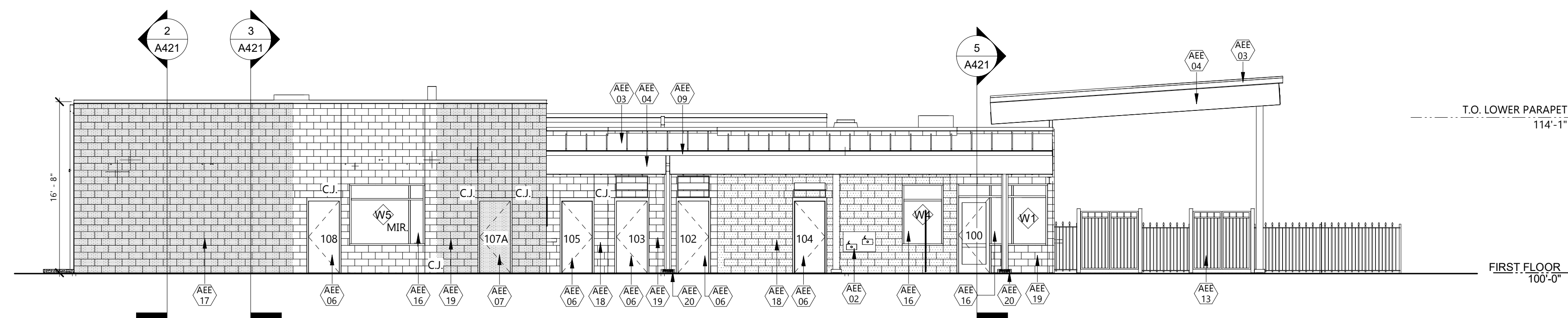
- ◊ <<< INDICATES KEYNOTE ON PLAN
- AE 40 TV MONITOR
- AE 01 PRE-FINISHED ALUM COPING, CHARCOAL.
- AE 02 WATER FOUNTAINS, SEE MECH. CMU BLOCK TO BE SMOOTH PLAIN FACE AT WATER FOUNTAIN SURROUND
- AE 03 STANDING SEAM METAL ROOF, GREY.
- AE 04 PRE-FINISHED ALUM PANEL FACIA.
- AE 05 PRE-FINISHED ALUM SOFFIT, GREY.
- AE 06 ANODIZED ALUMINUM STOREFRONT, CHARCOAL GREY.
- AE 07 HOLLOW METAL DOOR & FRAME, PAINTED, TBD.
- AE 09 PRE-FINISHED ALUM GUTER & DOWNSPOUT, CHARCOAL.
- AE 10 STEEL COLUMN, PAINTED, PREP STEEL AND GRIND SMOOTH UNEVEN SPOTS AND WELDS
- AE 11 ALUM SERVICE WINDOWS, SLIDING, CHARCOAL.
- AE 12 BUILDING SIGNAGE B.O., SEE ELEC. FOR POWER
- AE 13 ORNAMENTAL STEEL FENCING AND GATE, TBD.
- AE 14 STAINLESS STEEL OVERHEAD COILING DOOR.
- AE 15 SOLID SURFACE COUNTER WITH METAL SUPPORT BRACKETS
- AE 16 ALUM STOREFRONT WITH CLEAR GLASS, CHARCOAL.
- AE 17 8"x8"x16" SPLIT FACE CMU, NATURAL
- AE 18 8"x8"x16" SPLIT FACE CMU, CHARCOAL 330
- AE 19 8"x8"x16" SPLIT FACE CMU, RED 110
- AE 20 SPLASH BLOCKS



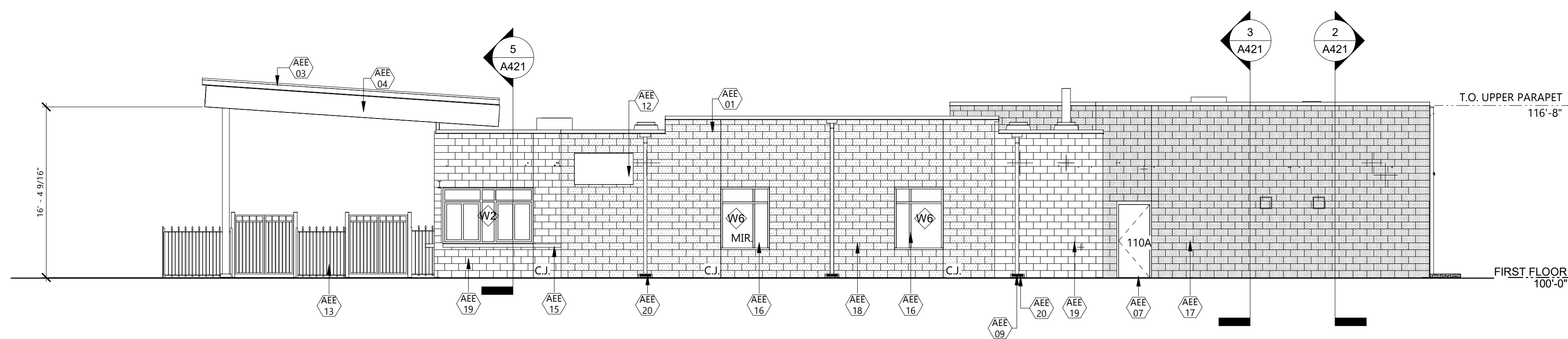
3 SOUTH ELEVATION
A401 1/8" = 1'-0"



4 NORTH ELEVATION
A401 1/8" = 1'-0"



2 WEST ELEVATION
A401 1/8" = 1'-0"



1 EAST ELEVATION
A401 1/8" = 1'-0"

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DRAWING TITLE
BUILDING ELEVATIONS



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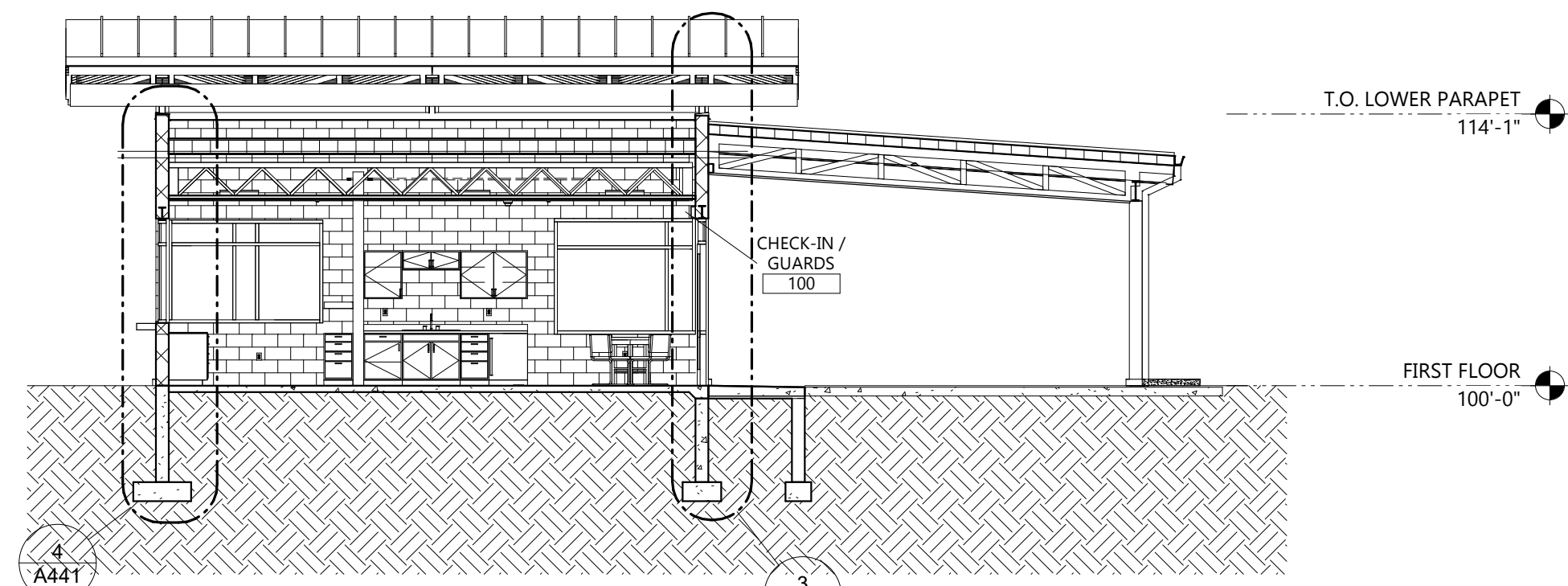
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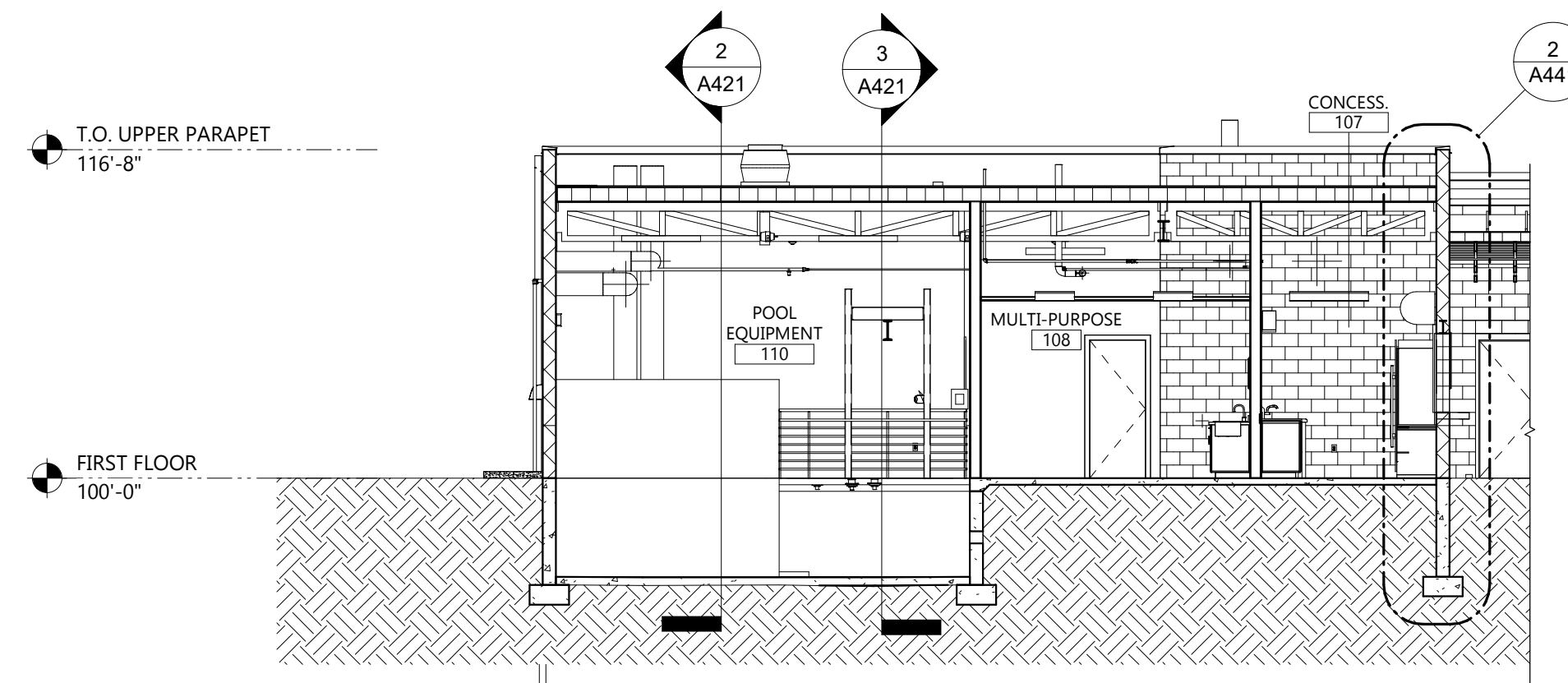
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DRAWING TITLE
BUILDING SECTIONS

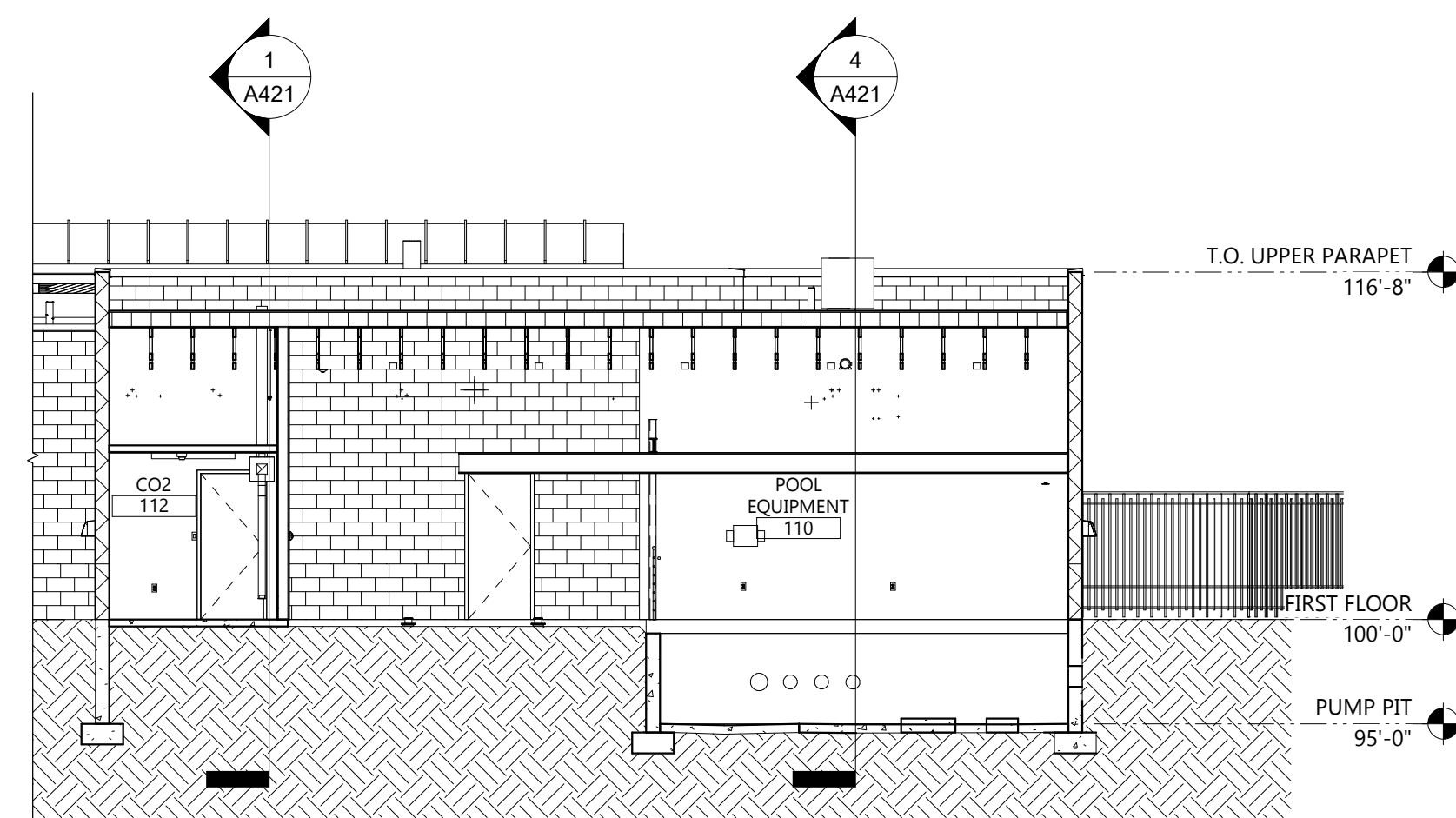
A421



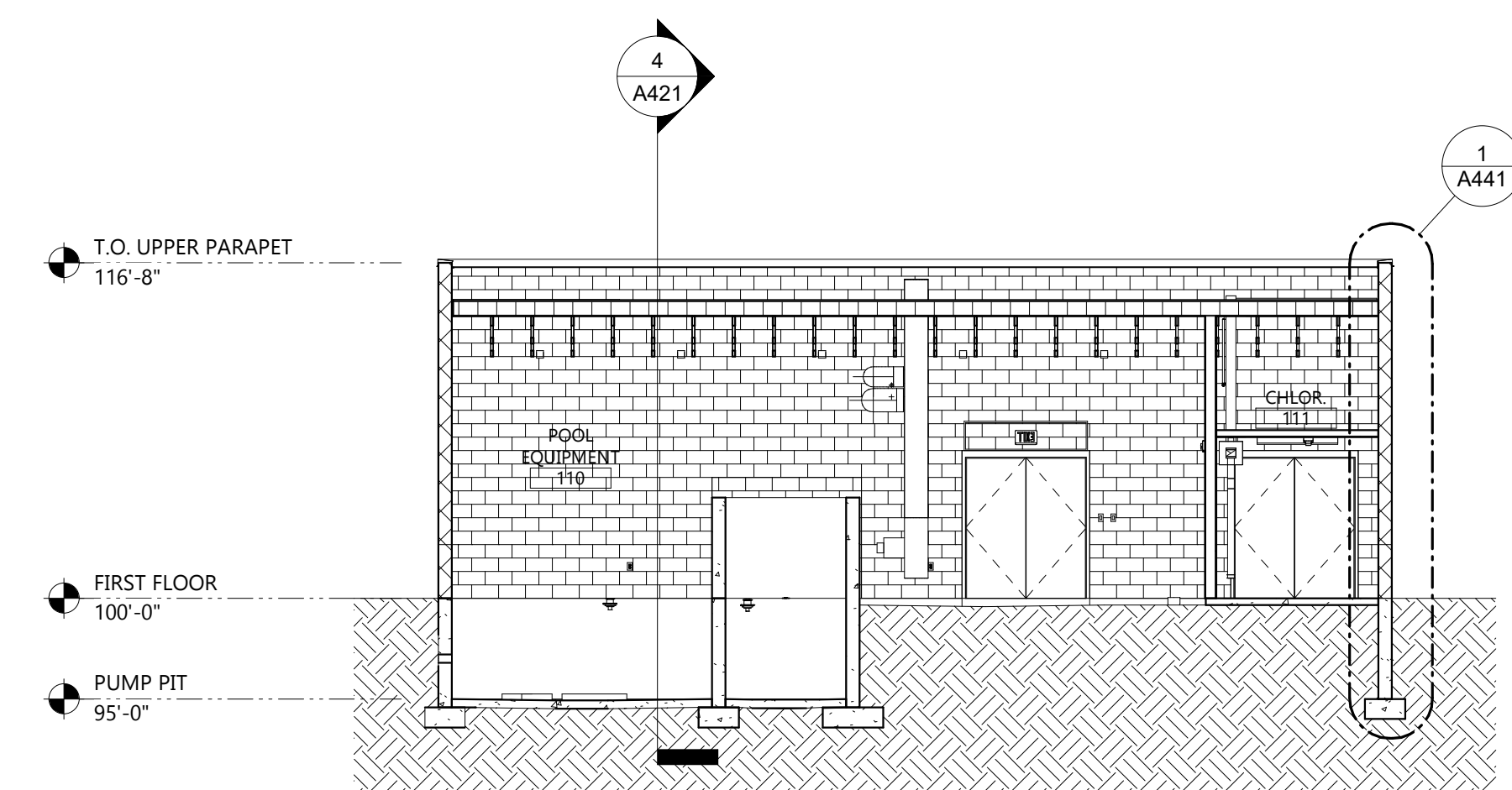
5 BUILDING SECTION - 05
A421 1/8" = 1'-0"



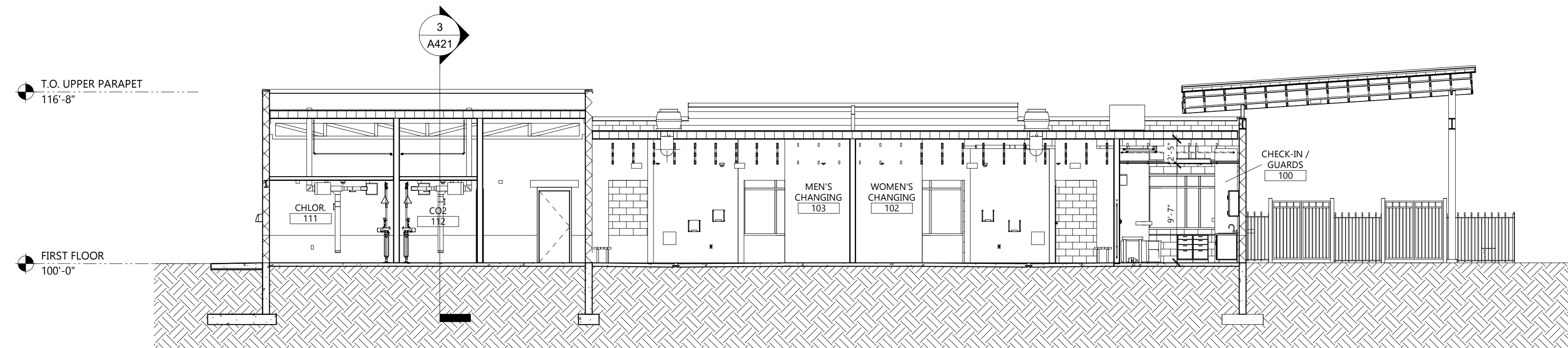
4 BUILDING SECTION - 04
A421 1/8" = 1'-0"



3 BUILDING SECTION - 03
A421 1/8" = 1'-0"



2 BUILDING SECTION - 02
A421 1/8" = 1'-0"



1 BUILDING SECTION - 01
A421 1/8" = 1'-0"



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DRAWING TITLE
**WET AREA ENLARGED
PLAN & ELEVATIONS**

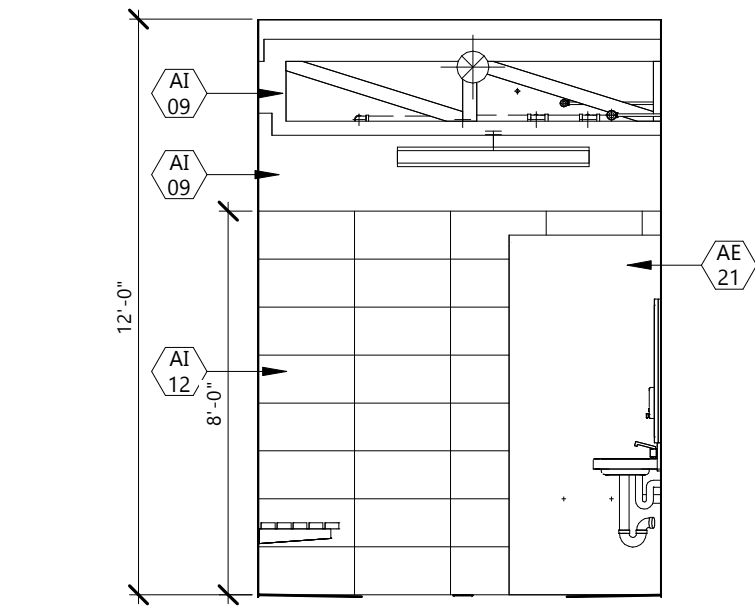
A501

KEYNOTE LEGEND:

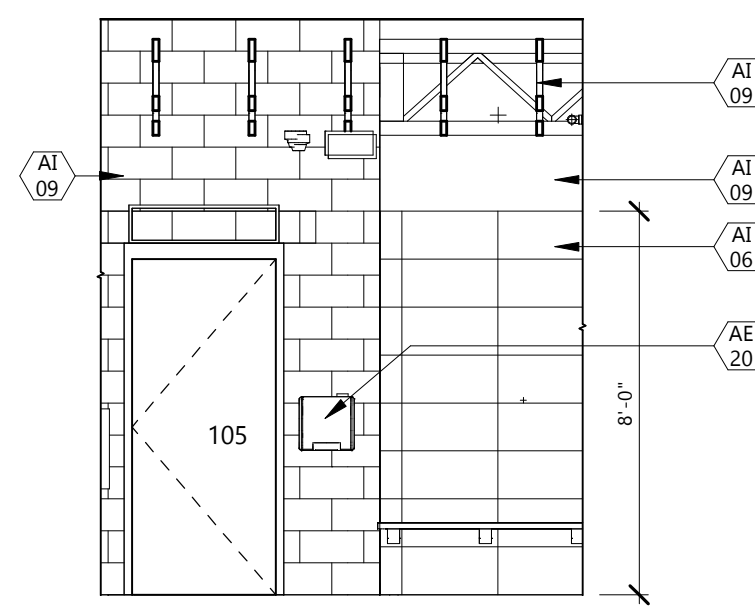
◊ ◊ ◊ INDICATES KEYNOTE ON PLAN

- AE 05 WALL MOUNTED SOAP DISPENSER
- AE 06 GRAB BARS
- AE 07 MIRROR, 24" X 36"
- AE 10 TOILET PAPER DISPENSER
- AE 11 BABY CHANGING STATION
- AE 12 PLASTIC URINAL PARTITION
- AE 13 PLASTIC TOILET COMPARTMENTS
- AE 14 ADA PLASTIC TOILET COMPARTMENTS
- AE 15 WALL HUNG SINK, SEE PLUMBING
- AE 16 SWIM SUIT DRYER
- AE 17 ADA BENCH
- AE 18 SURFACE MOUNTED UTILITY HOOKS
- AE 19 HEAVY DUTY SHOWER CURTAIN ROD AND HOOKS
- AE 20 SURFACE MOUNTED HAND DRYER
- AE 21 PLASTIC SHOWER PARTITION
- AE 24 ADA SHOWER SEAT
- AE 35 GFCC OUTLET TYP. - SEE ELEC
- AI 04 PNT-1 (FIELD, EPOXY)
- AI 05 4" VINYL BASE
- AI 06 CTW-1
- AI 08 PNT-2 (ACCENT, EPOXY)
- AI 09 PNT-3 (FIELD)
- AI 10 PNT-4 (ACCENT)
- AI 11 CTW-2
- AI 12 CTW-3

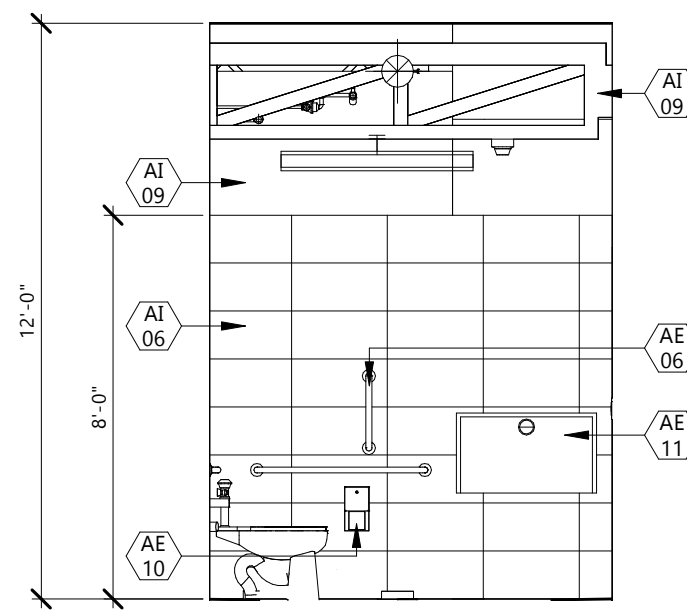
GENERAL NOTE:
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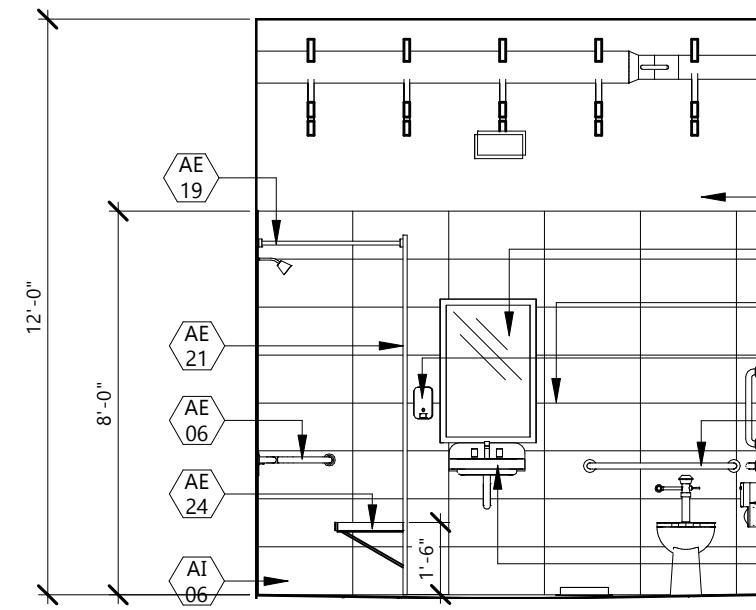
17 FAMILY CHNG N ELEV
A501 1/4" = 1'-0"



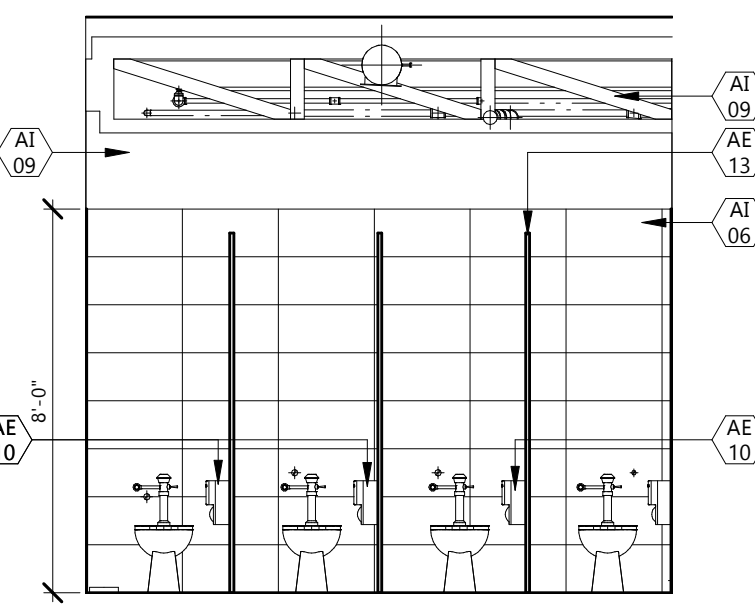
16 FAMILY CHNG W ELEV
A501 1/4" = 1'-0"



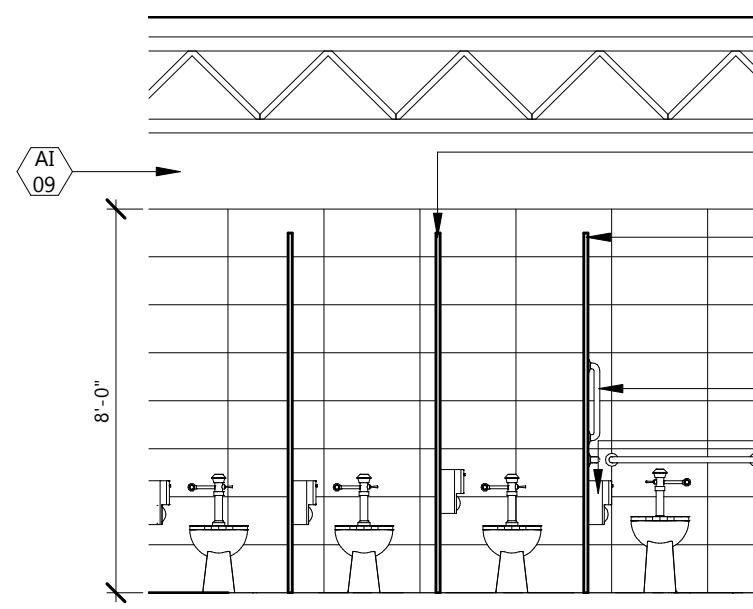
15 FAMILY CHNG S ELEV
A501 1/4" = 1'-0"



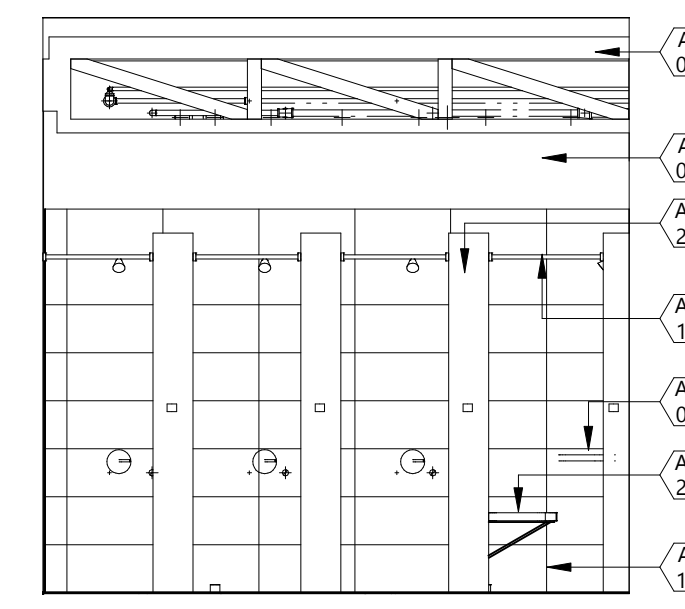
14 FAMILY CHNG E ELEV
A501 1/4" = 1'-0"



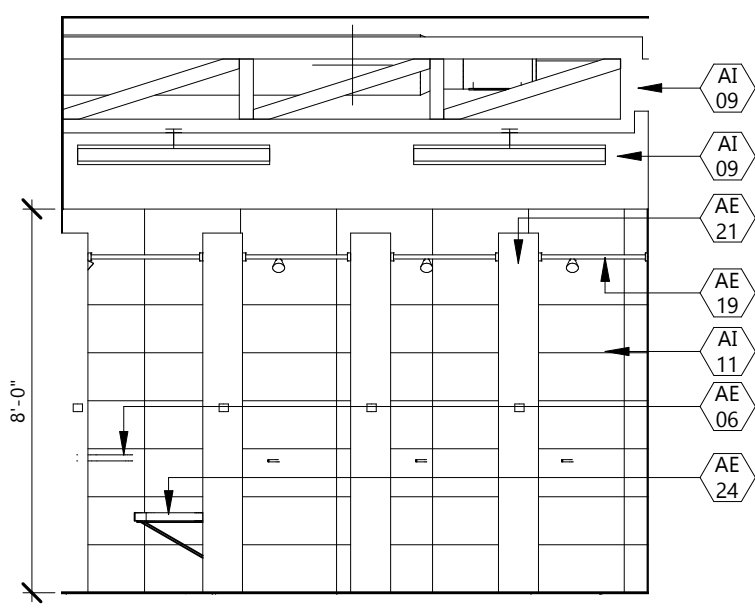
13 W CHANG. (TLTS) 102 S ELEV
A501 1/4" = 1'-0"



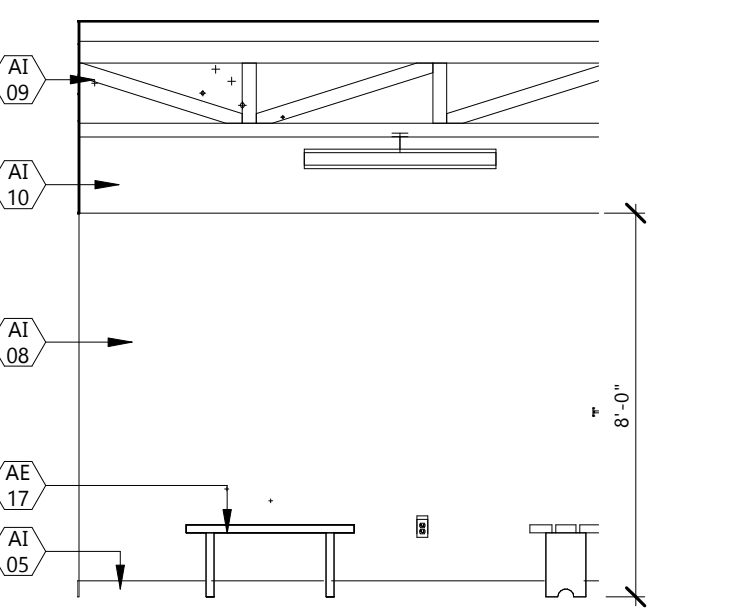
12 W CHANG. (TLTS) 102 N ELEV
A501 1/4" = 1'-0"



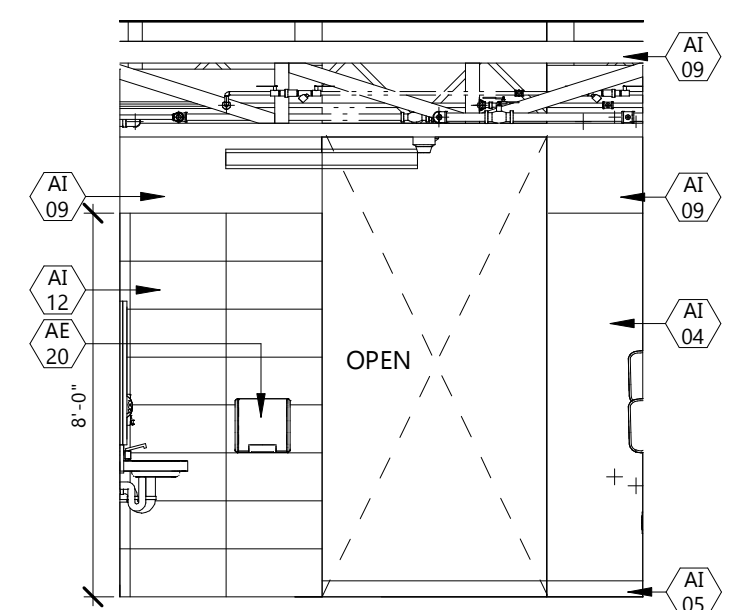
11 M CHANG. (SHOWERS) 103 S ELEV
A501 1/4" = 1'-0"



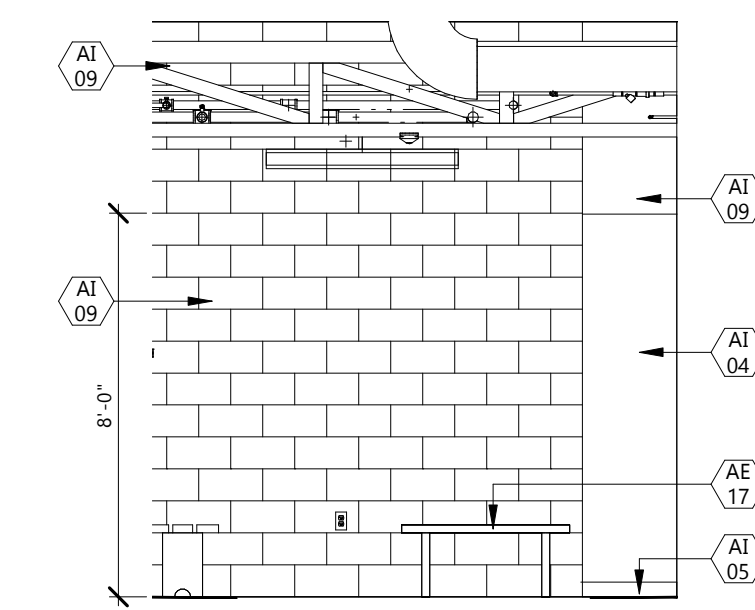
10 W CHANG. (SHOWERS) 102 N ELEV
A501 1/4" = 1'-0"



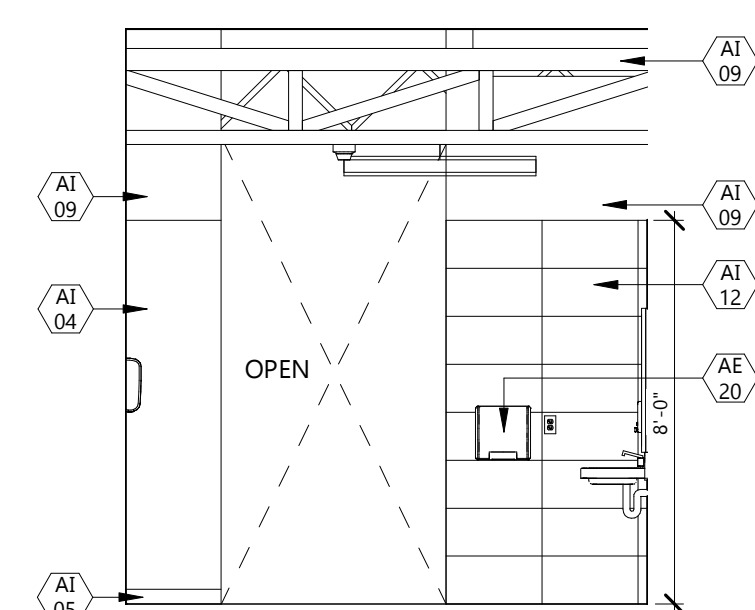
9 W CHANG. 102 S ELEV
A501 1/4" = 1'-0"



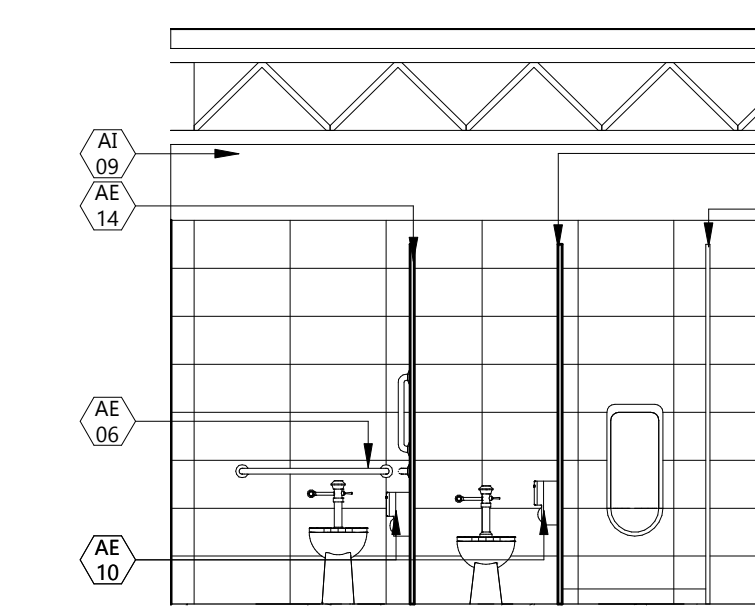
8 W CHANG. 102 N ELEV
A501 1/4" = 1'-0"



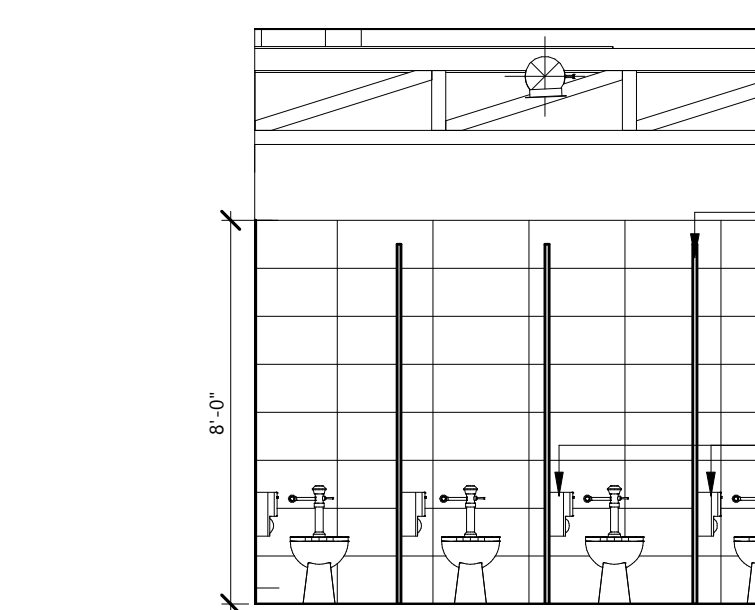
7 M CHANG. 103 N ELEV
A501 1/4" = 1'-0"



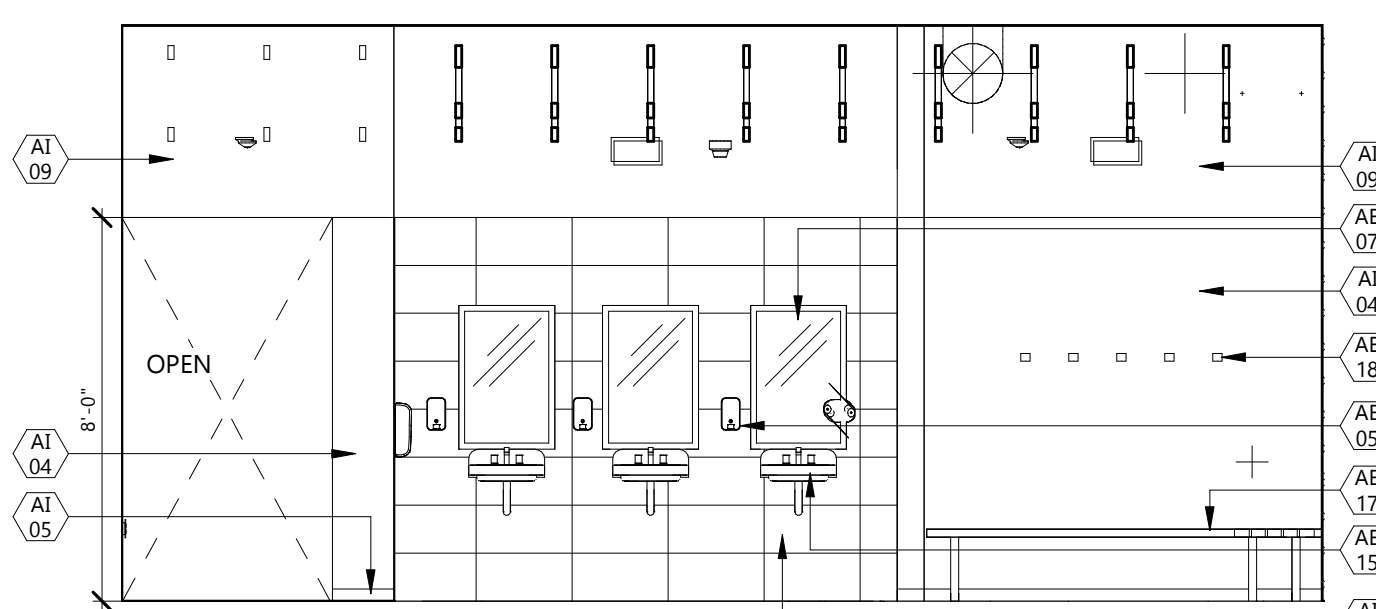
6 M CHANG. 103 S ELEV
A501 1/4" = 1'-0"



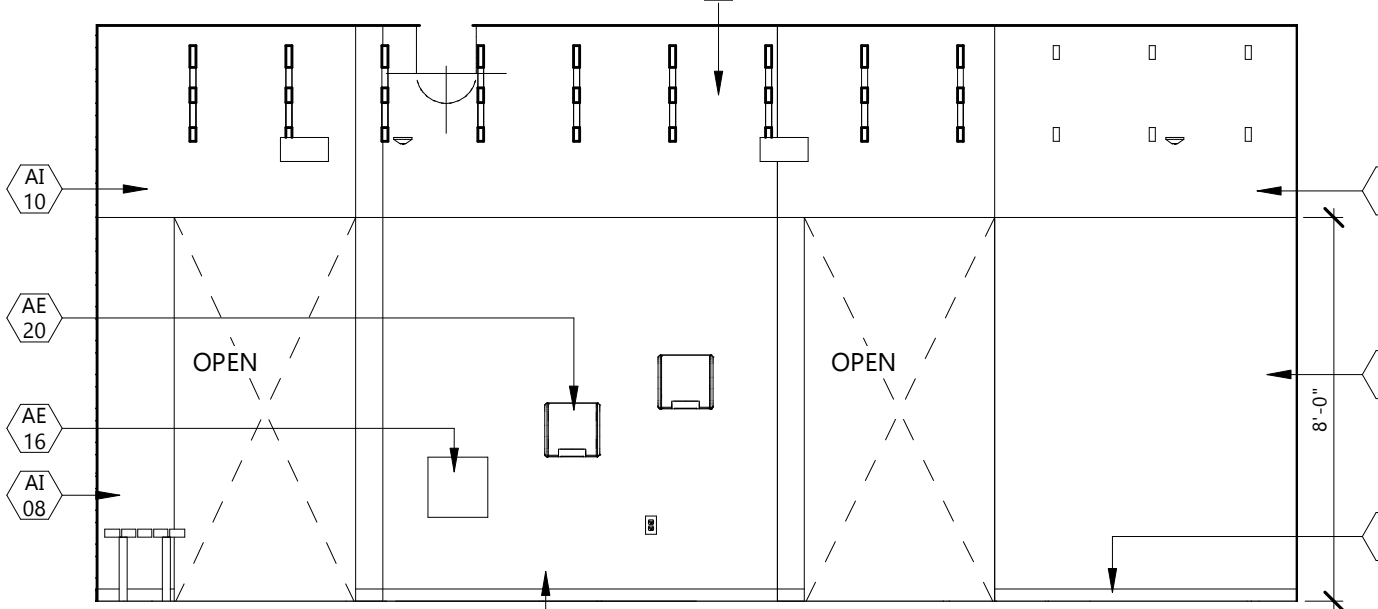
5 M CHANG. (TLTS) 103 S ELEV
A501 1/4" = 1'-0"



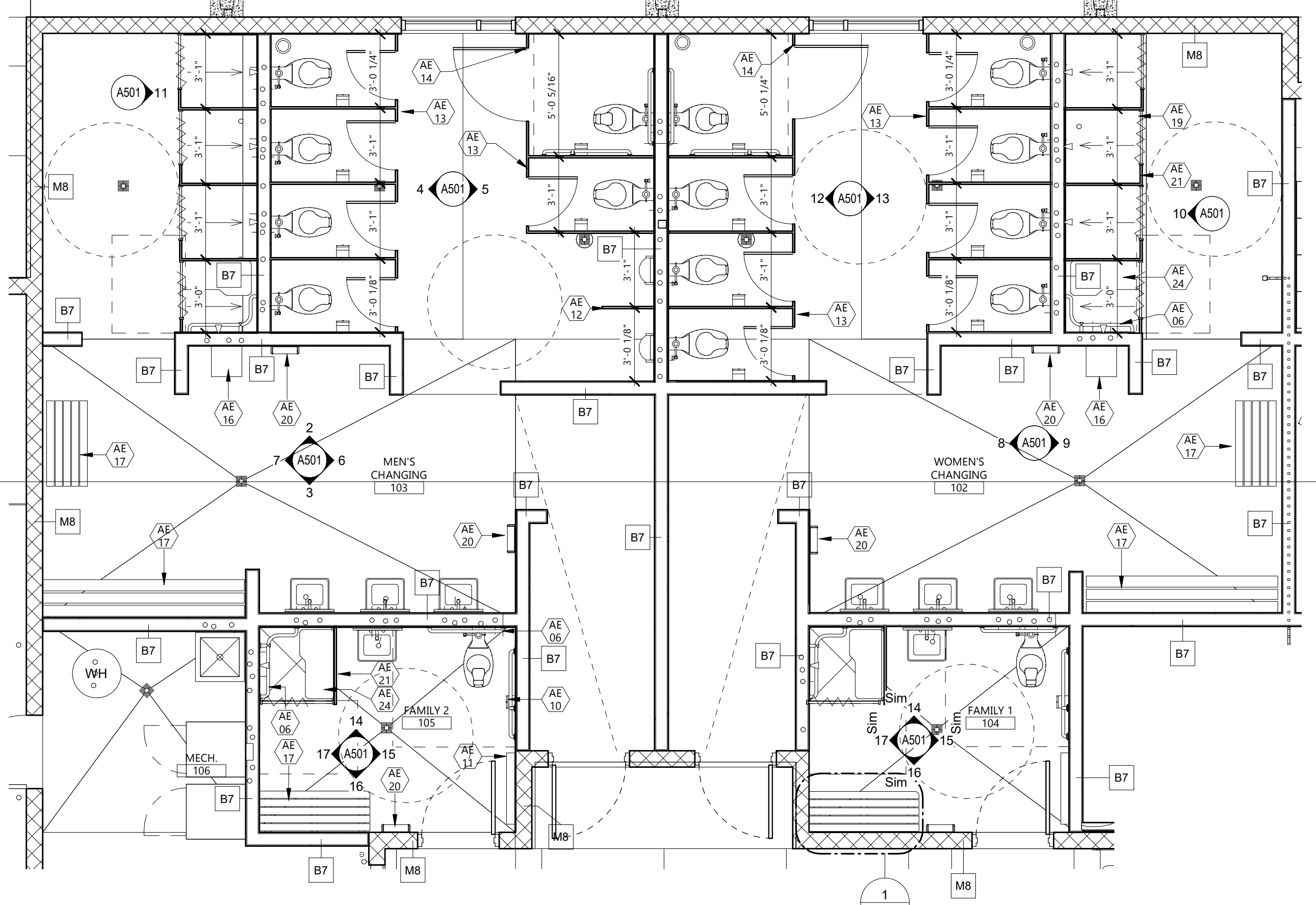
4 M CHANG. (TLTS) 103 N ELEV
A501 1/4" = 1'-0"



3 M CHANG. 103 W ELEV
A501 1/4" = 1'-0"



2 M CHANG. 103 E ELEV
A501 1/4" = 1'-0"



1 ENLARGED PLAN - WET AREA
A501 1/4" = 1'-0"

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DRAWING TITLE
ENLARGED PLANS

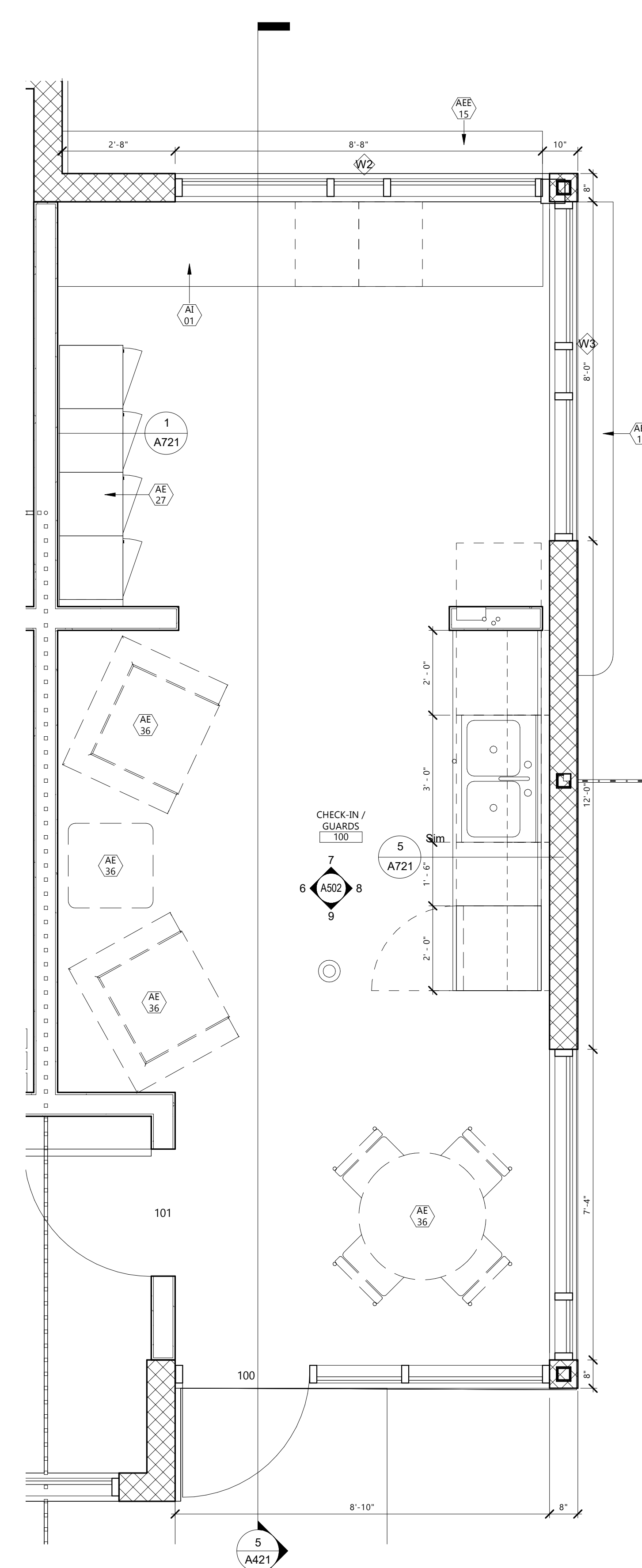
A502

GENERAL NOTE:
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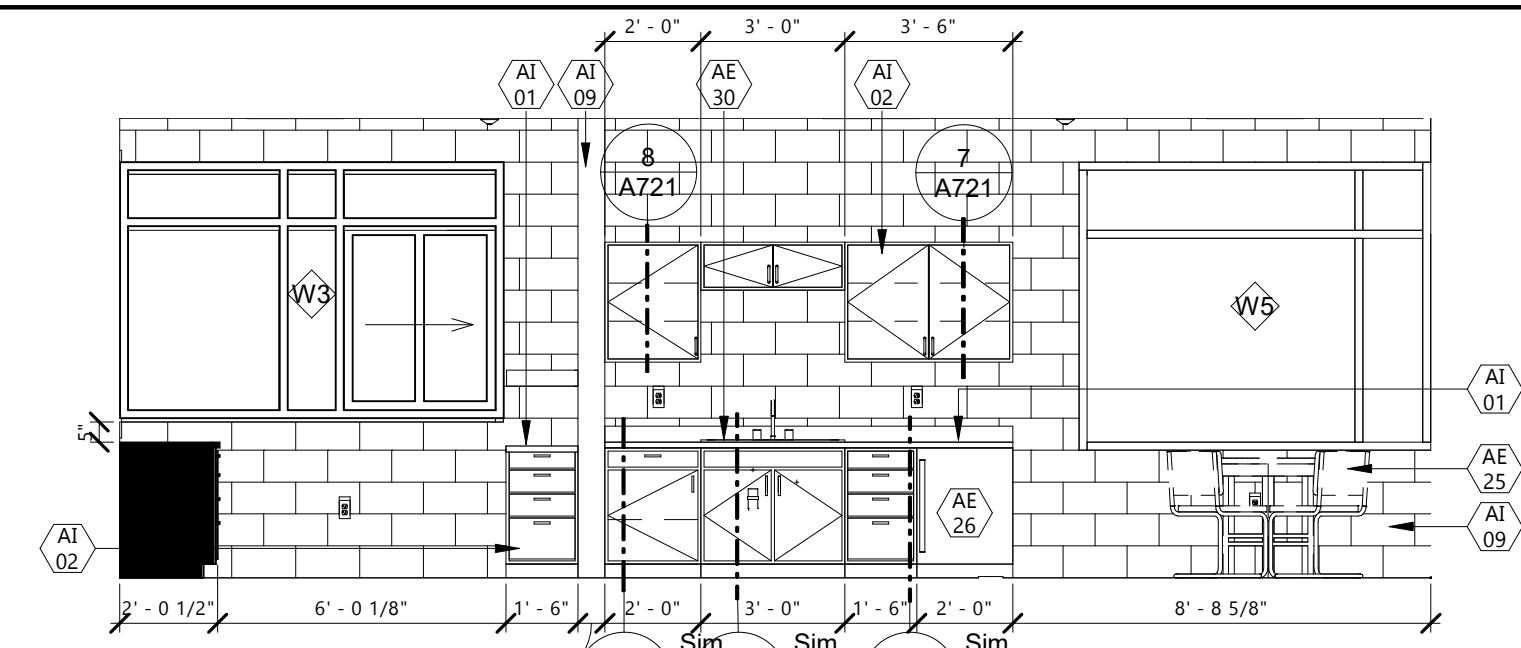
KEYNOTE LEGEND:

<< << INDICATES KEYNOTE ON PLAN

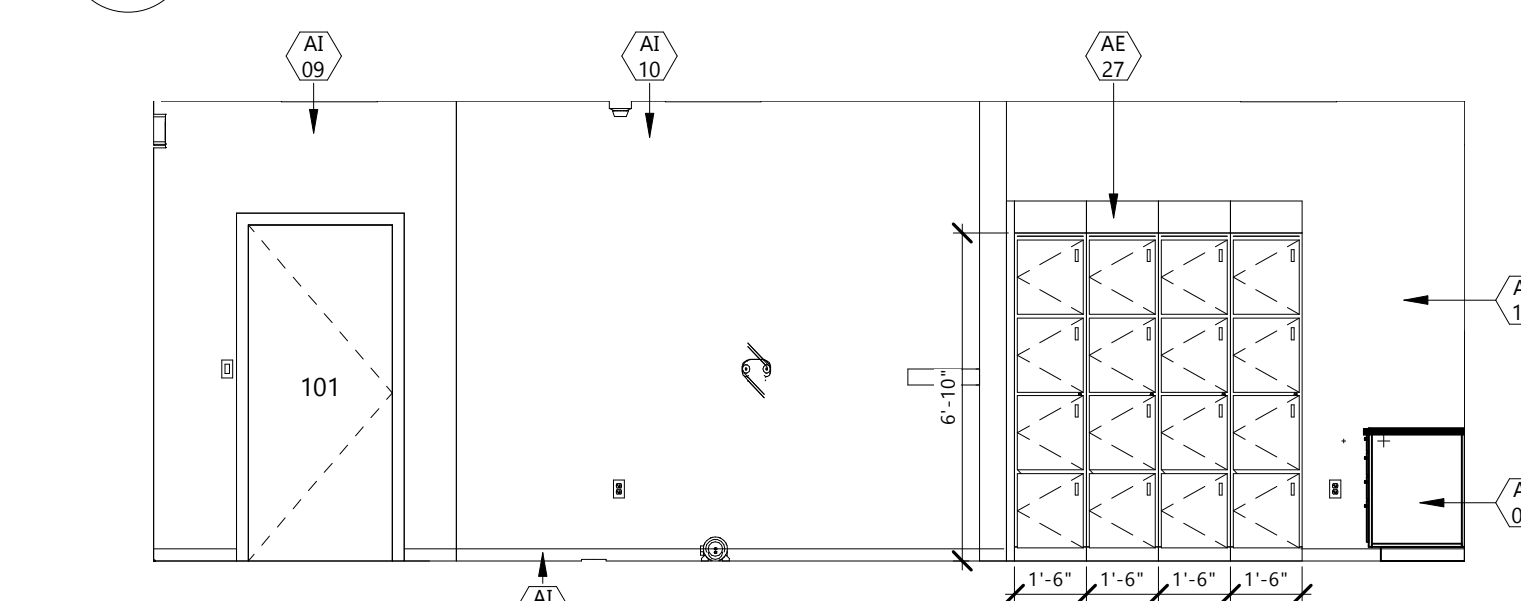
- AE 25 TABLE & CHAIRS - BY OWNER
- AE 26 UNDER COUNTER REFRIGERATOR - BY OWNER
- AE 27 METAL LOCKERS
- AE 28 BEVERAGE REFRIGERATOR - BY OWNER
- AE 29 UPRIGHT FREEZER - BY OWNER
- AE 30 DROP-IN SINK, SEE PLUMBING
- AE 31 COILING DOOR
- AE 32 CHEST FREEZER - BY OWNER
- AE 33 3 COMPARTMENT SINK
- AE 34 HAND WASH SINK
- AE 35 GFCI OUTLET TYP. - SEE ELEC
- AE 36 FURNITURE - BY OWNER
- AE 40 TV MONITOR
- AE E SOLID SURFACE COUNTER WITH METAL SUPPORT BRACKETS 15
- AE E STAINLESS STEEL COUNTER WITH METAL SUPPORT BRACKETS 22
- AI 01 PLAM - COUNTER TOPS
- AI 02 PLAM - CABINETS
- AI 03 SLC-1
- AI 05 4" VINYL BASE
- AI 09 PNT-3 (FIELD)
- AI 10 PNT-4 (ACCENT)
- AI 13 SSF-1



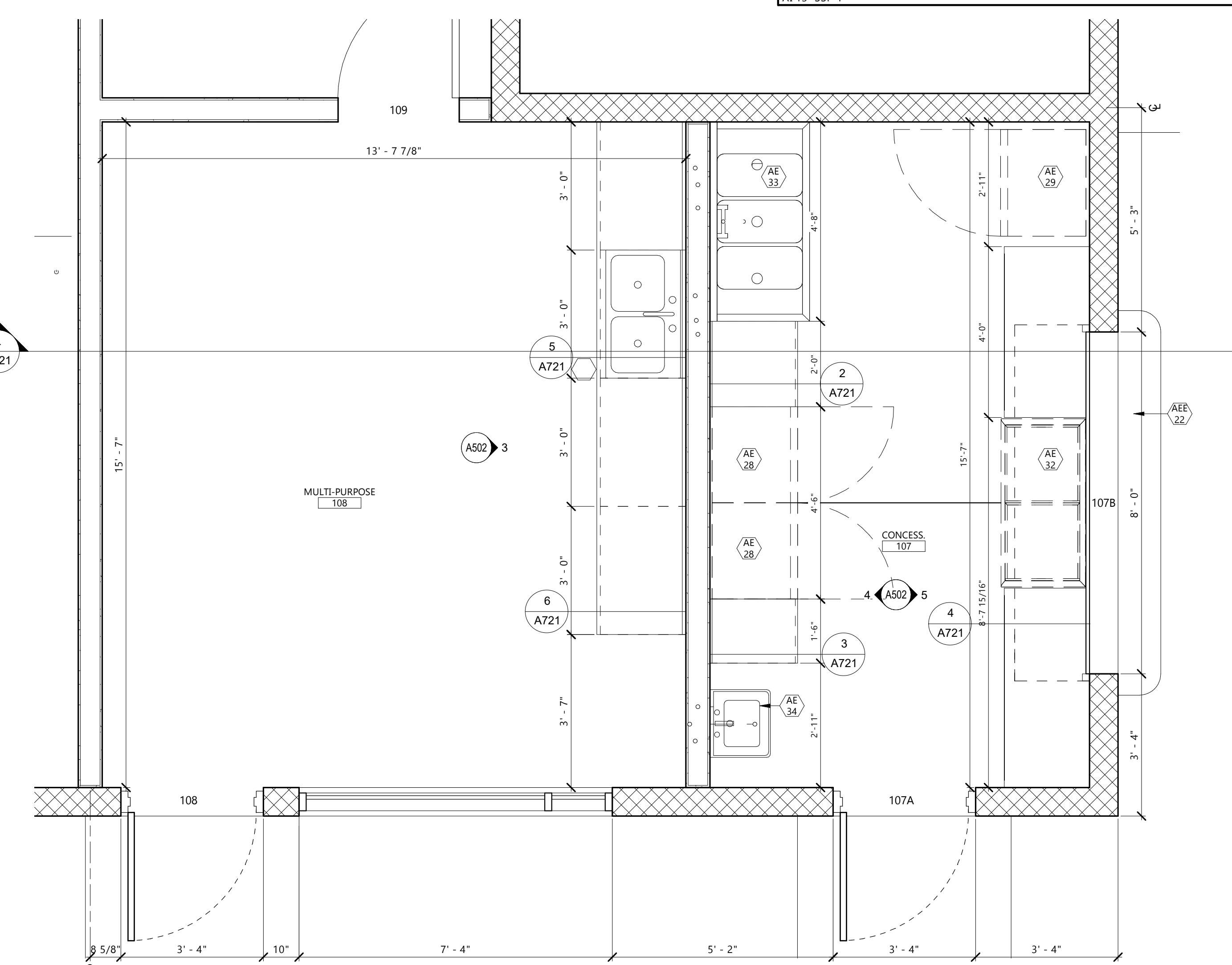
1 ENLARGED PLAN - CHECK-IN/GUARDS
A502 1/2" = 1'-0"



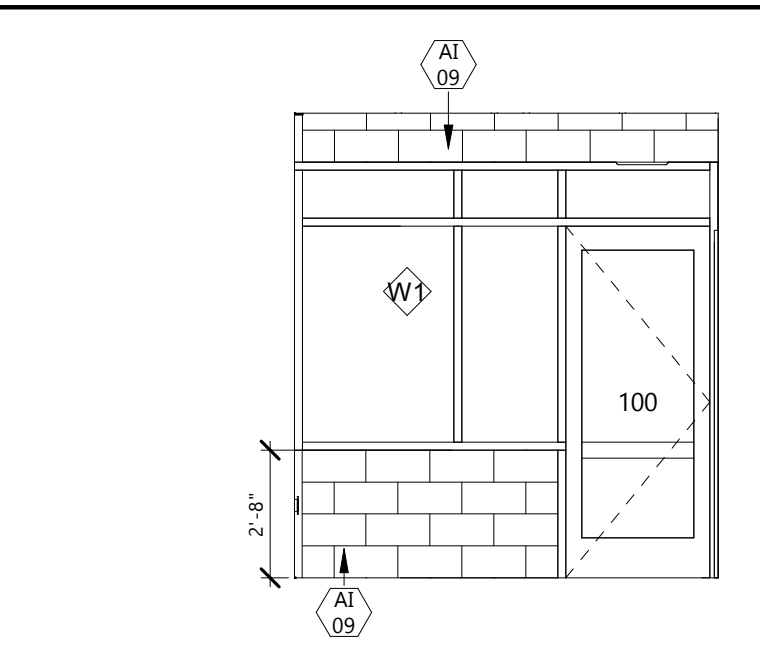
8 CHECK-IN/GUARDS 100 S ELEV
A502 1/4" = 1'-0"



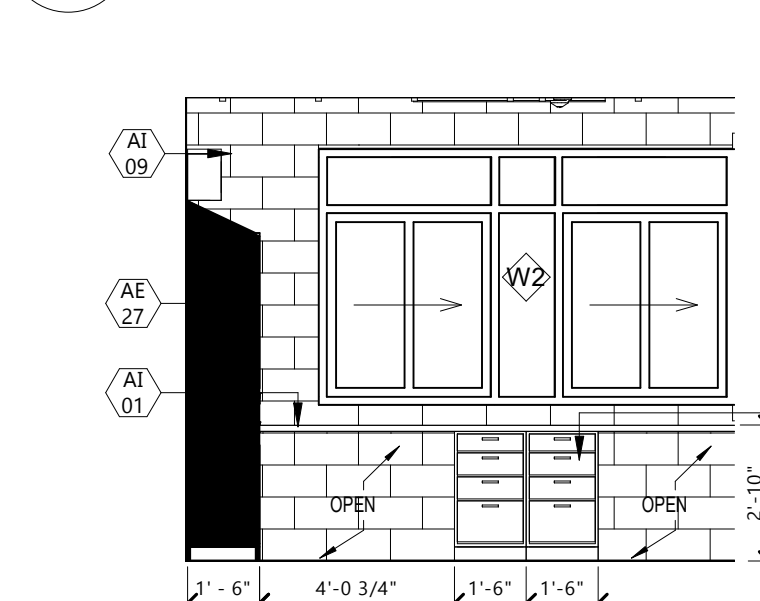
6 CHECK-IN/GUARDS 100 N ELEV
A502 1/4" = 1'-0"



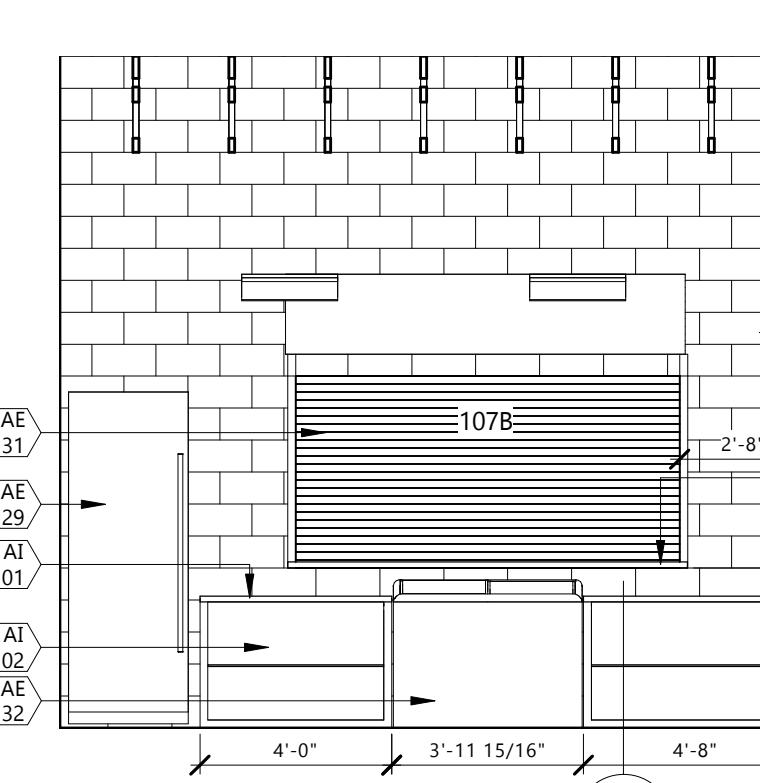
2 ENLARGED PLAN - CONCESSIONS & MULTI-PURPOSE ROOM
A502 1/2" = 1'-0"



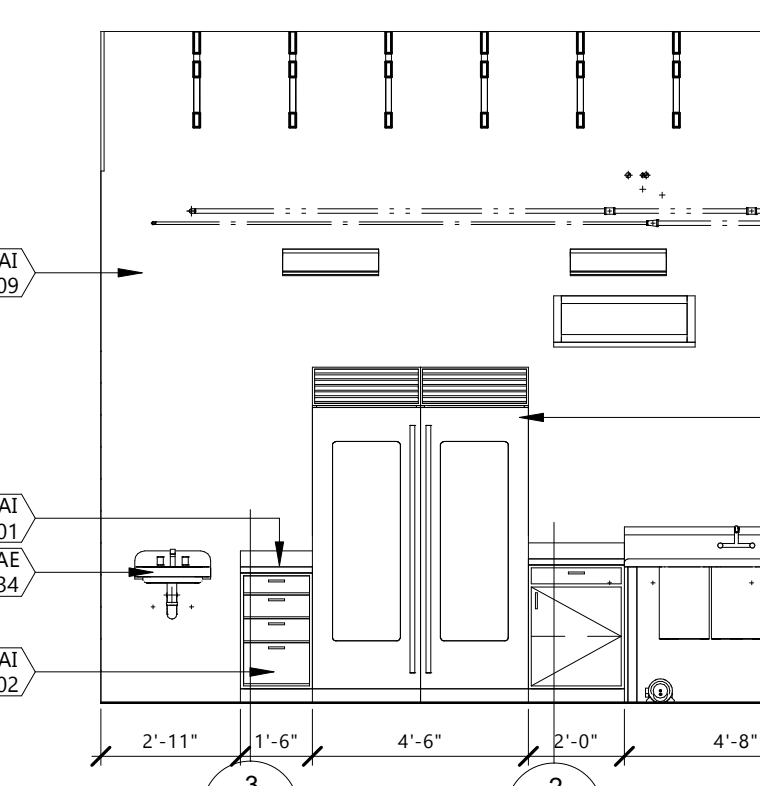
9 CHECK-IN/GUARDS 100 W ELEV
A502 1/4" = 1'-0"



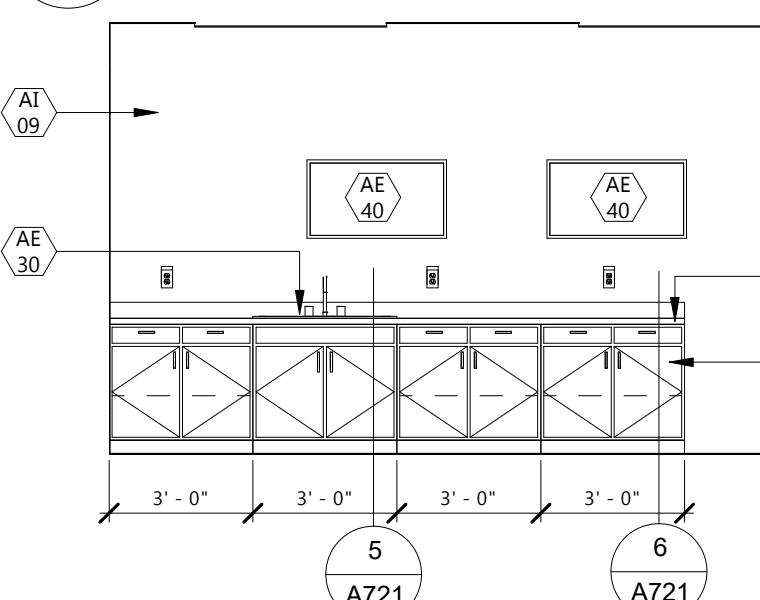
7 CHECK-IN/GUARDS 100 E ELEV
A502 1/4" = 1'-0"



5 CONCESSIONS 107 S ELEV
A502 1/4" = 1'-0"



4 CONCESSIONS 107 N ELEV
A502 1/4" = 1'-0"



3 MULTI-PURPOSE ROOM 108 S ELEV
A502 1/4" = 1'-0"

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PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

ISSUE DATES

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| MARK | DESCRIPTION | DATE |

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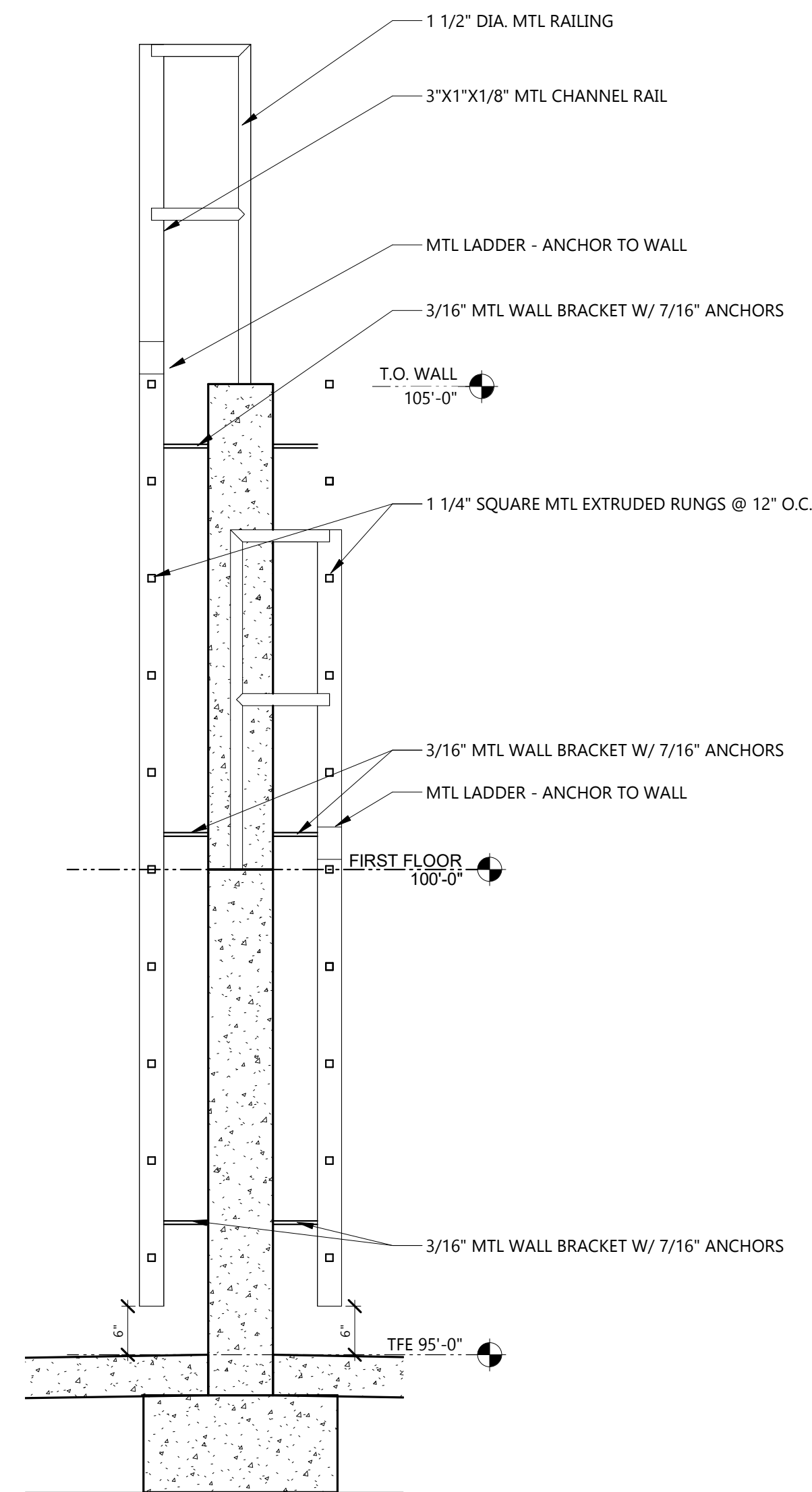
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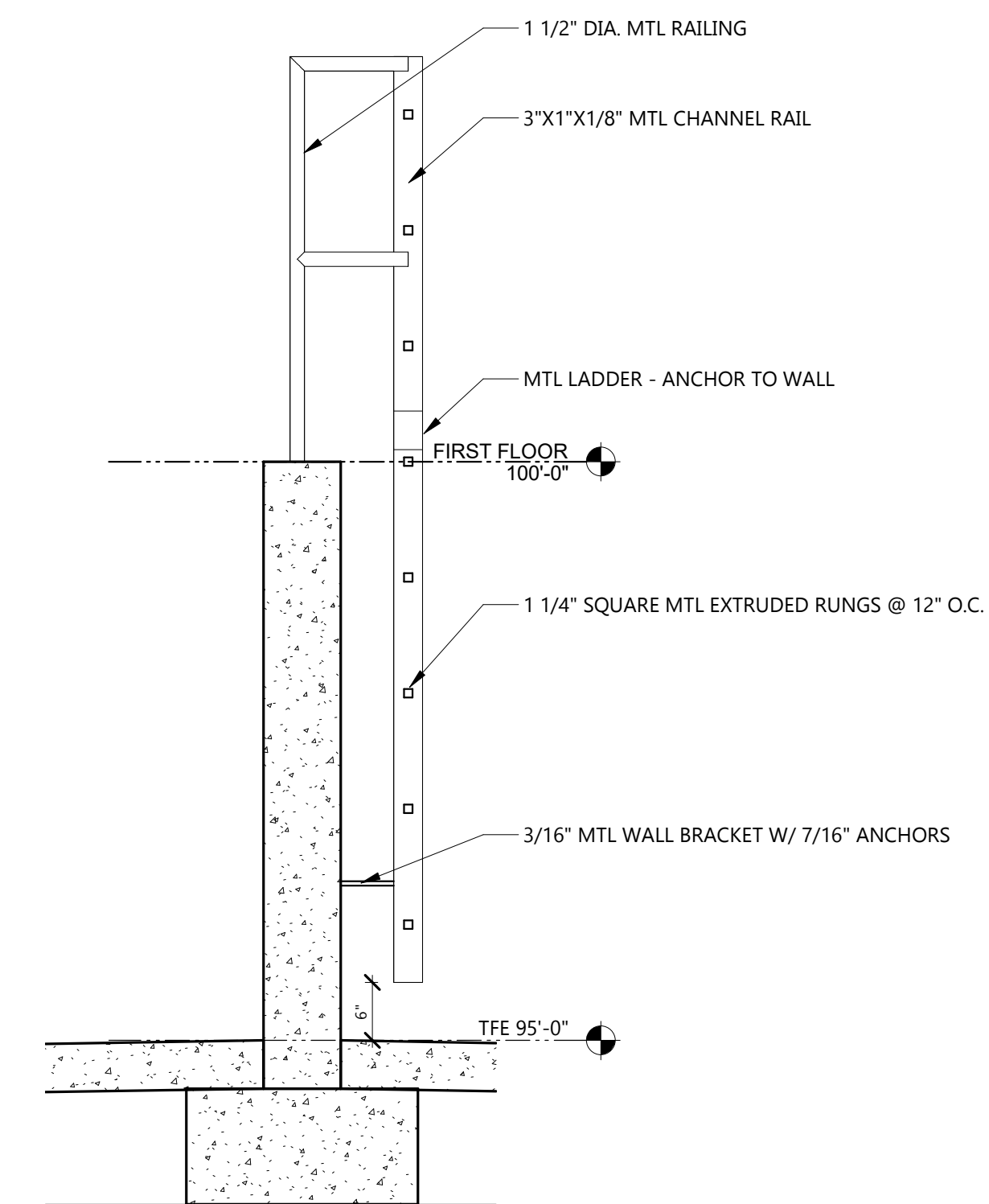
Signature: *[Signature]*
Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
DETAILS

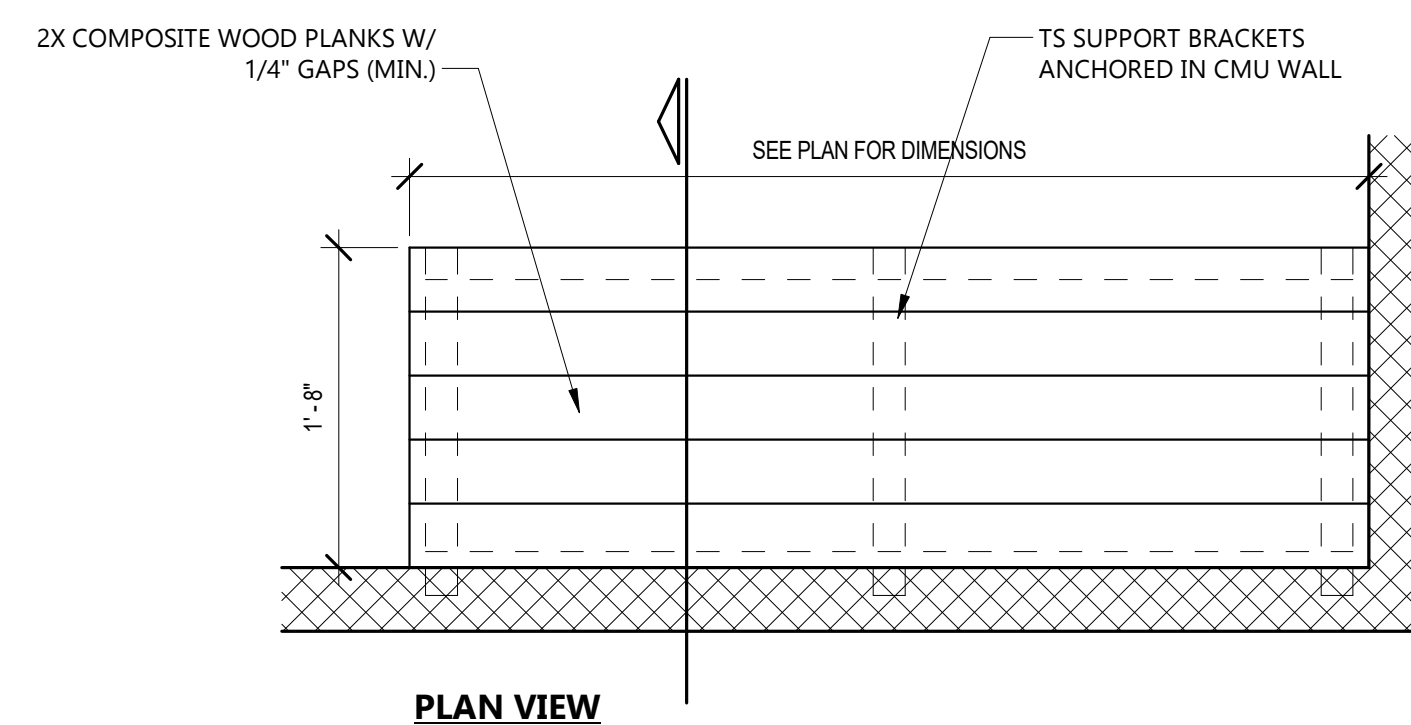
A601



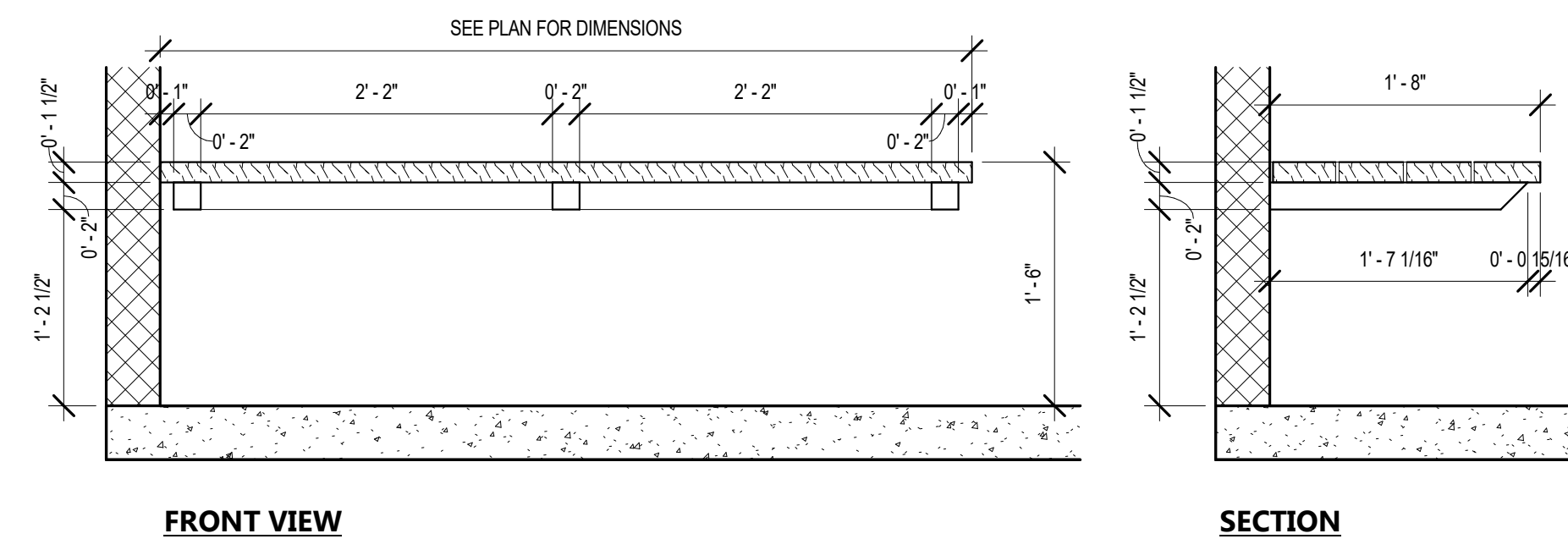
2 LADDER SECTION (DOUBLE)
3/4" = 1'-0"



3 LADDER SECTION (SINGLE)
3/4" = 1'-0"



1 ADA BENCH DETAIL
1" = 1'-0"



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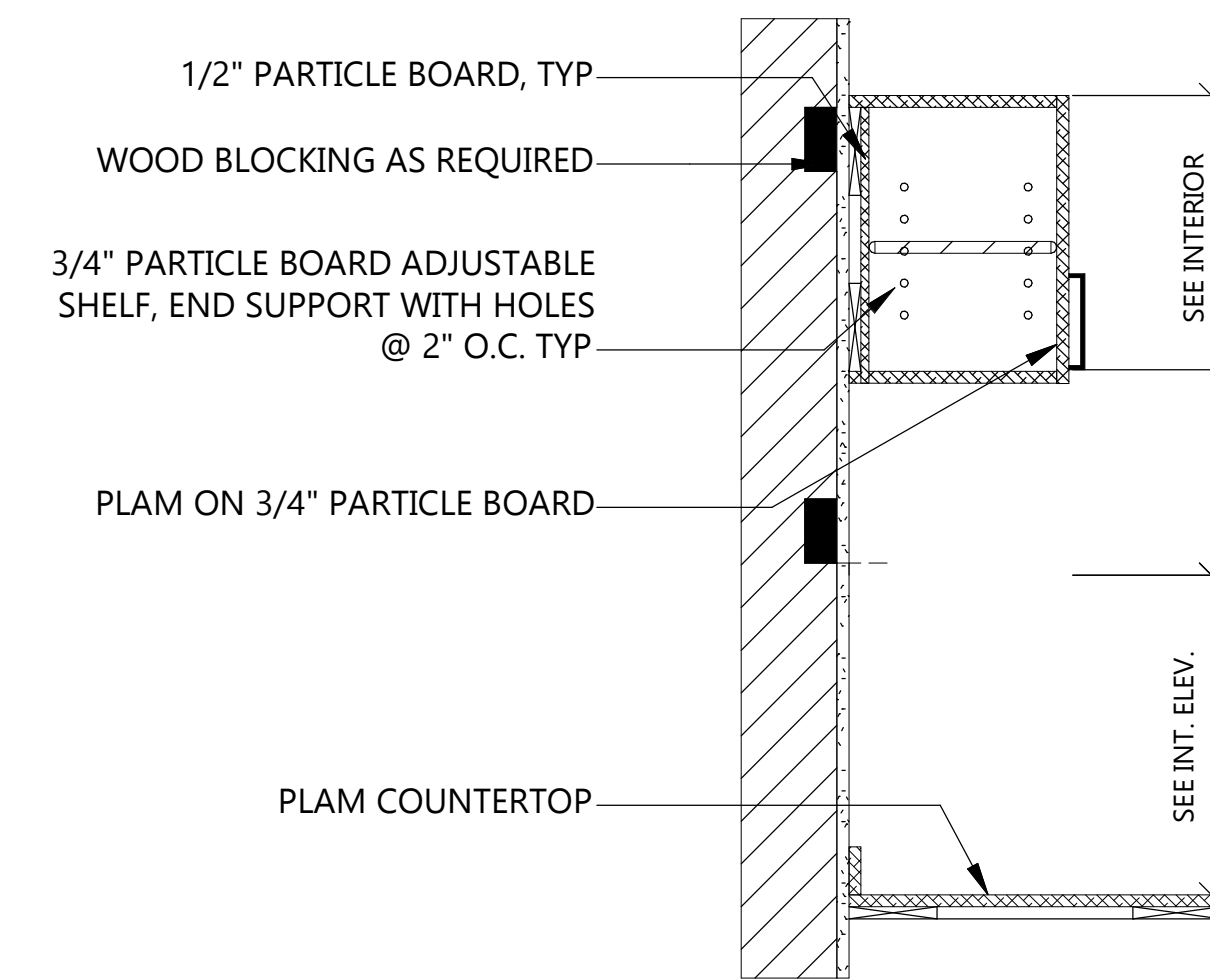
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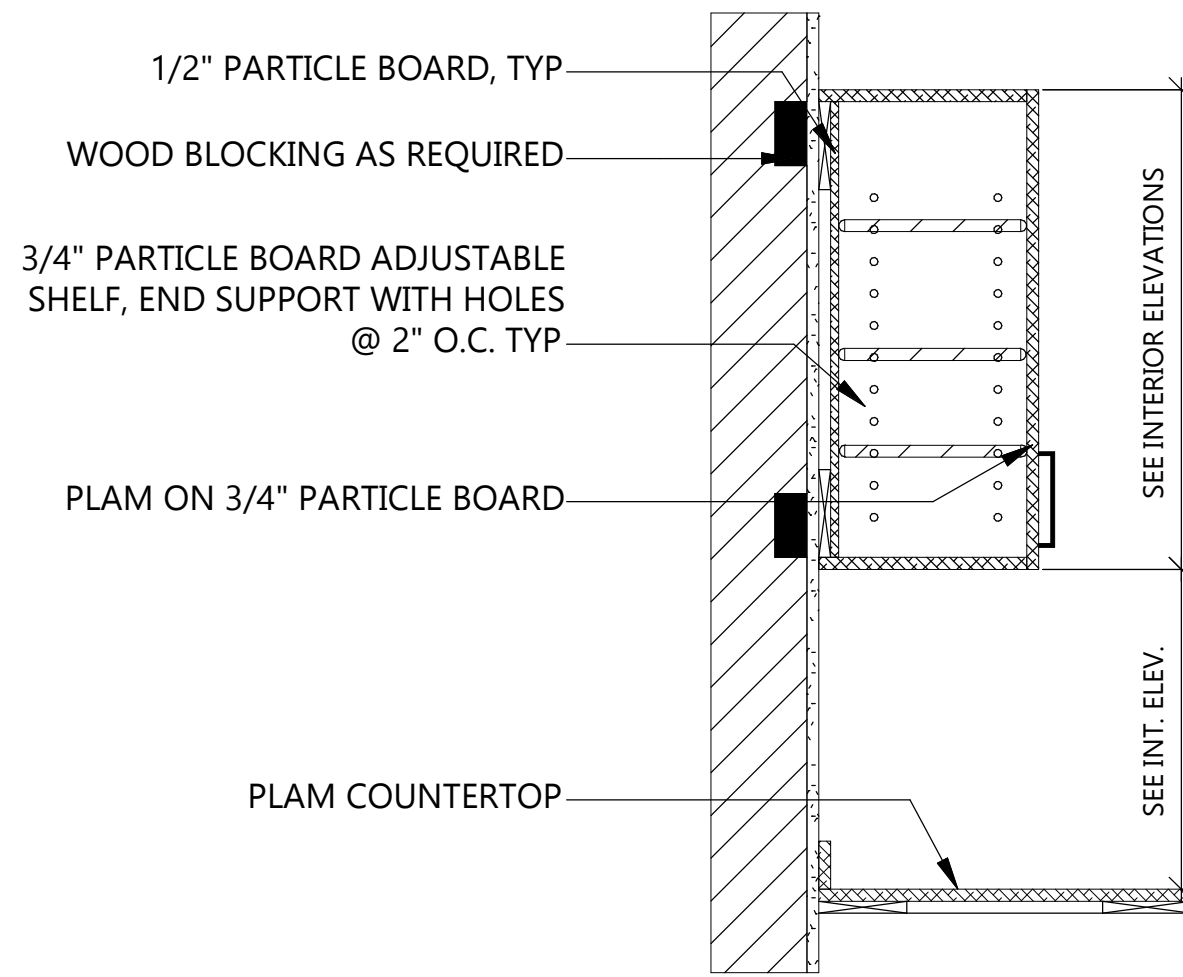
Signature: *[Signature]*
Date: 5/19/2023 REG. NO. : 1718

DRAWING TITLE
**MILLWORK SECTIONS,
DETAILS**

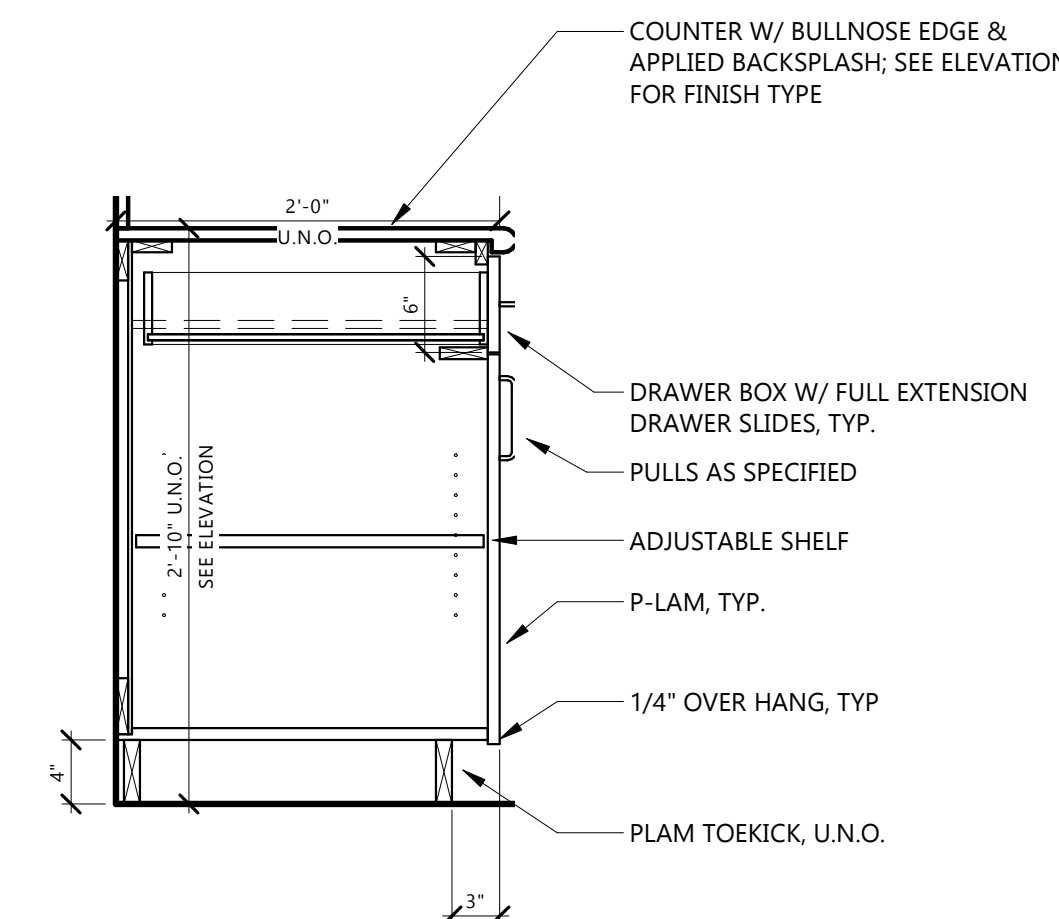
A721



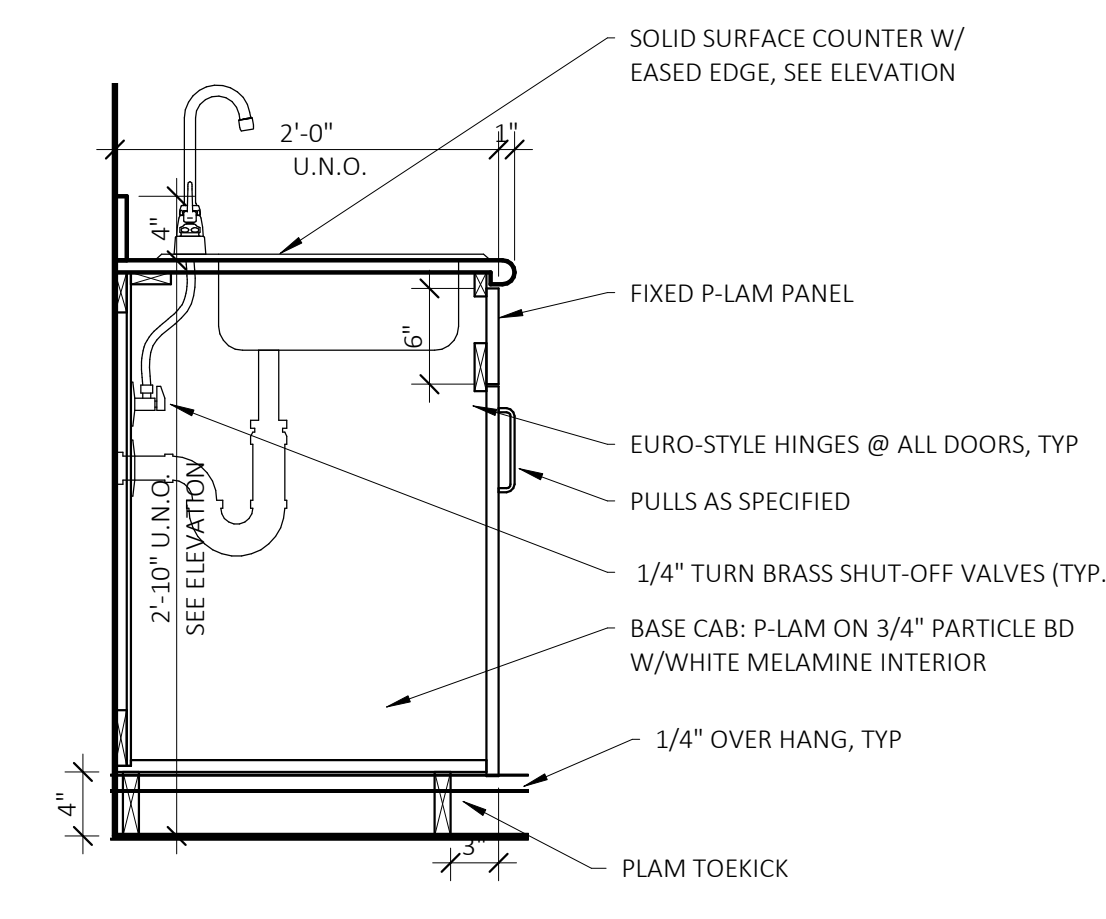
8 MILLWORK SECTION
A721 NOT TO SCALE



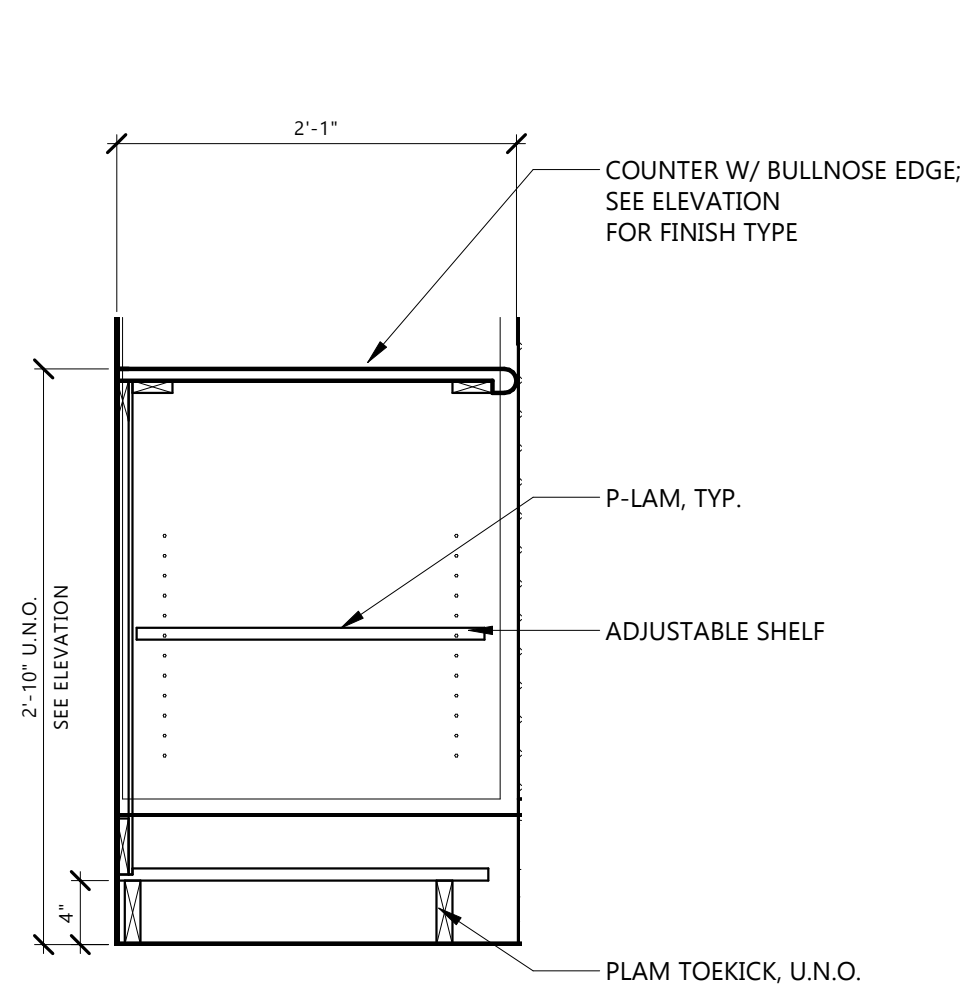
7 MILLWORK SECTION
A721 NOT TO SCALE



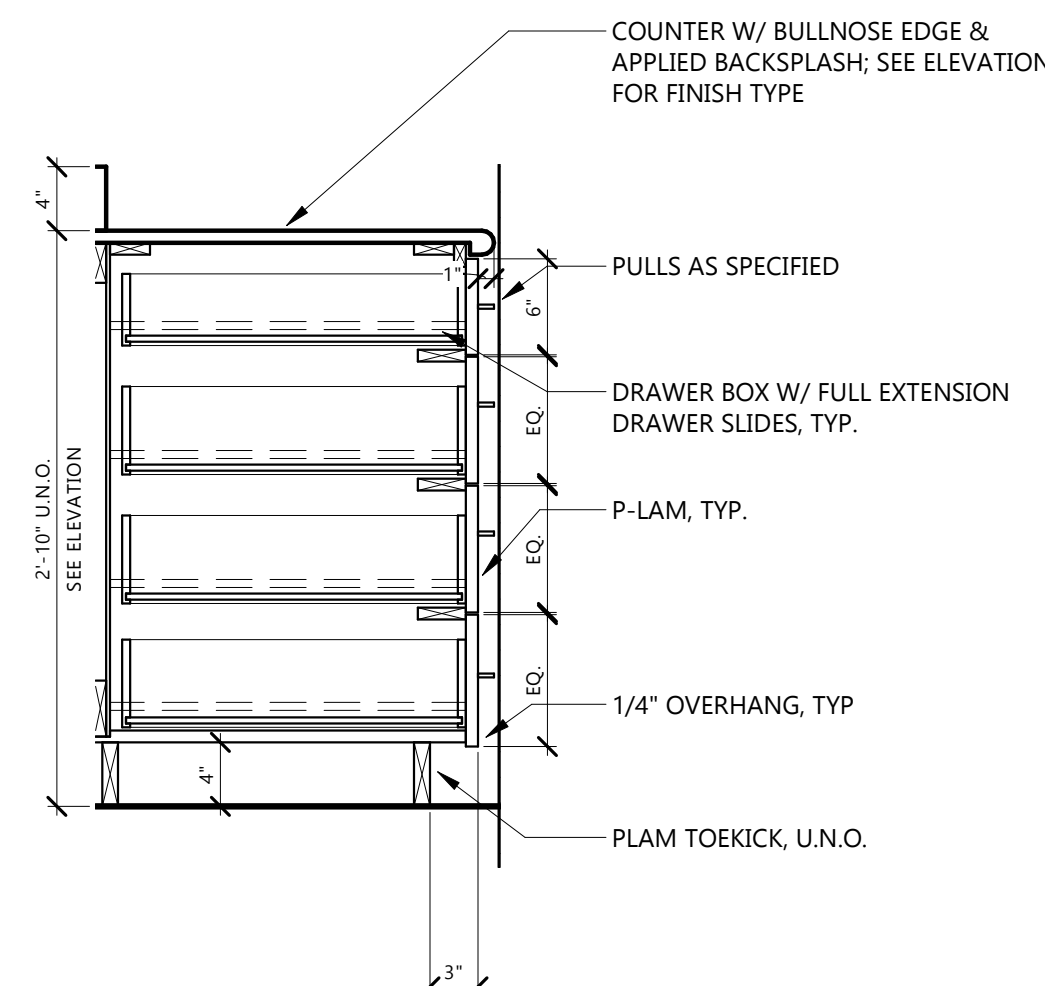
6 MILLWORK SECTION
A721 NOT TO SCALE



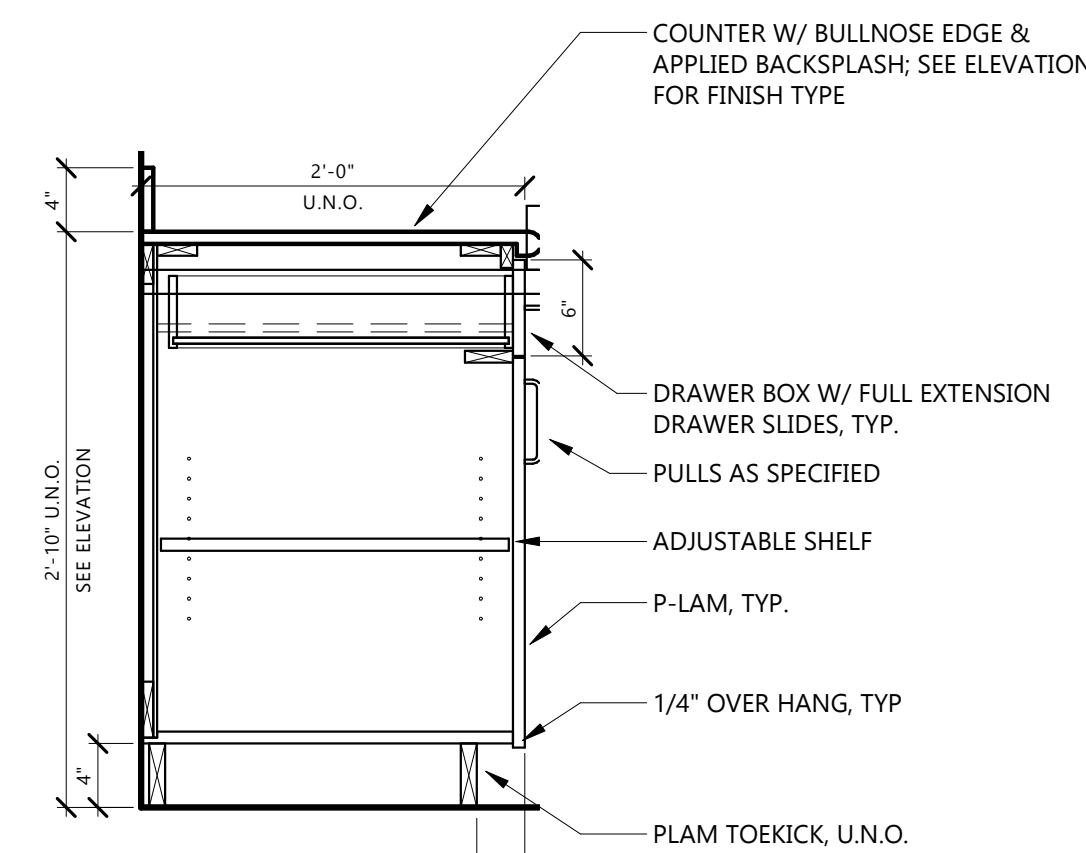
5 MILLWORK SECTION
A721 NOT TO SCALE



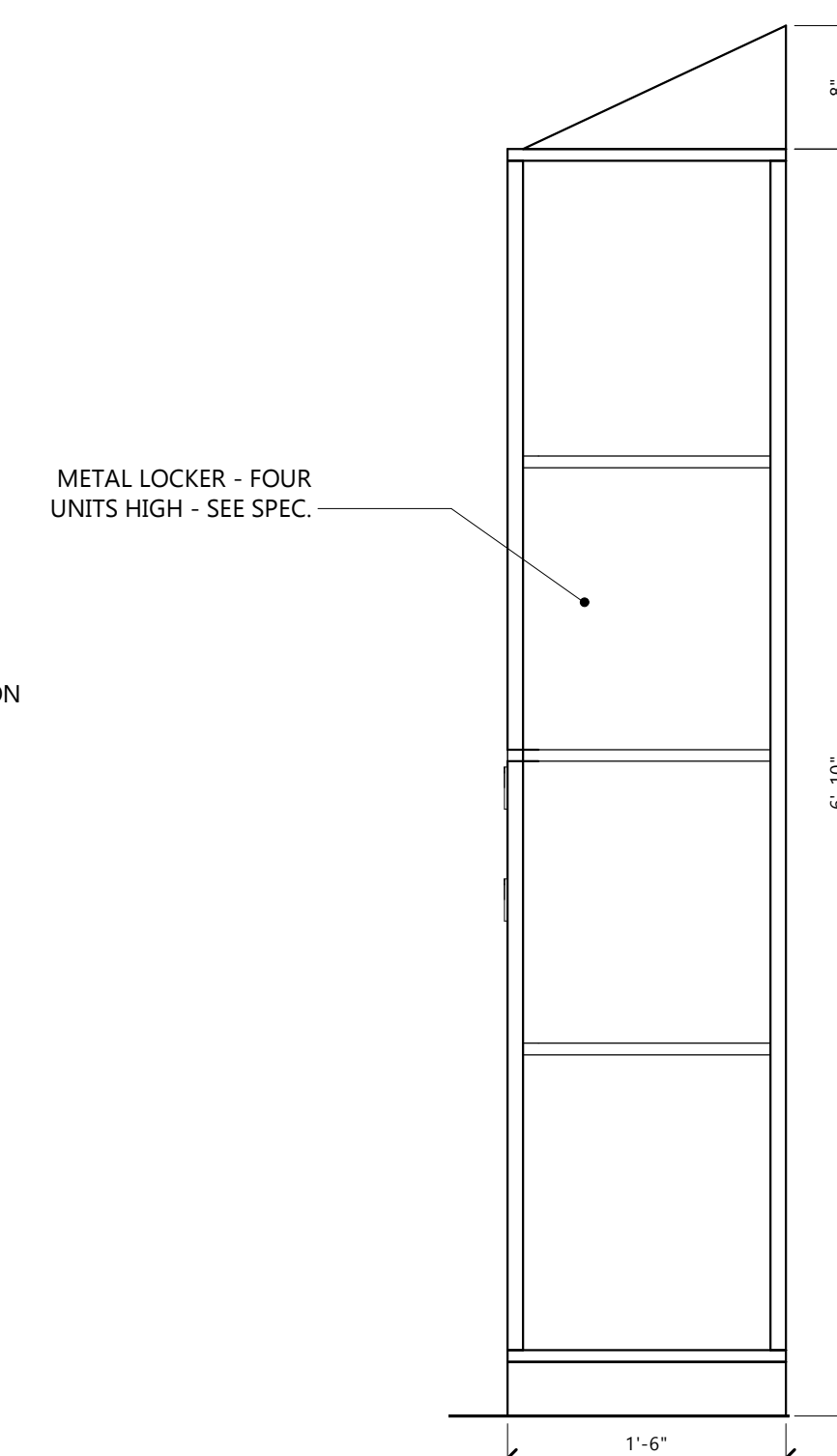
4 MILLWORK SECTION
A721 NOT TO SCALE



3 MILLWORK SECTION
A721 NOT TO SCALE



2 MILLWORK SECTION
A721 NOT TO SCALE



1 LOCKER DETAIL
A721 NOT TO SCALE

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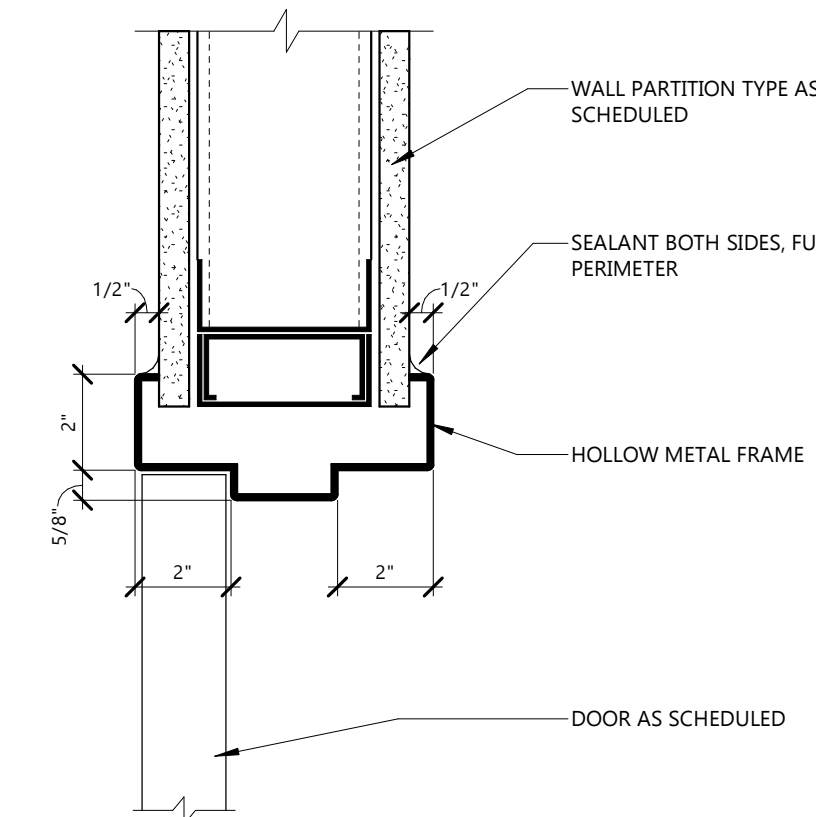
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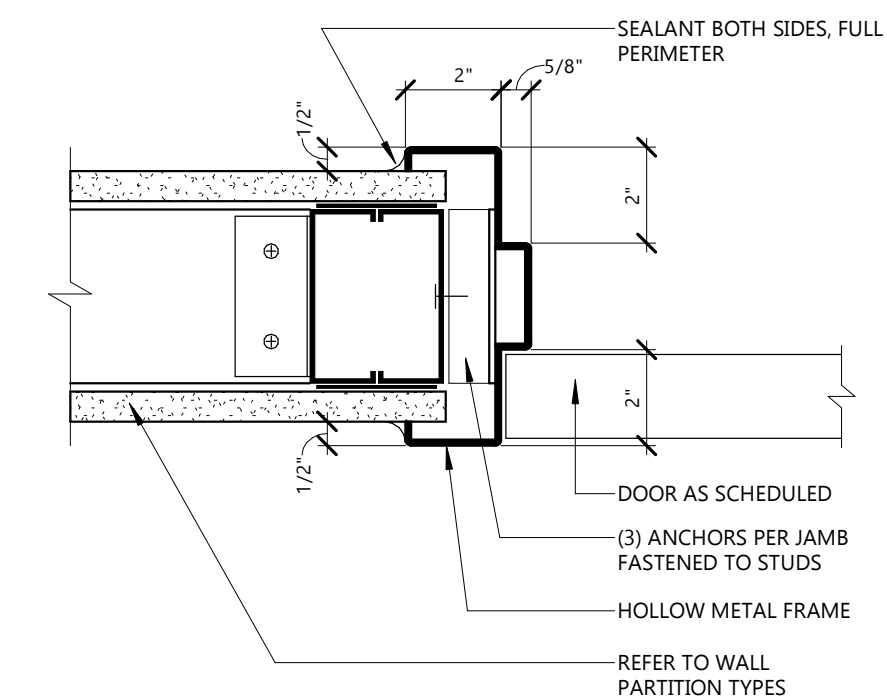
DRAWING TITLE
**DOOR SCHEDULE,
DOOR AND WINDOWS
ELEVATIONS**

A801

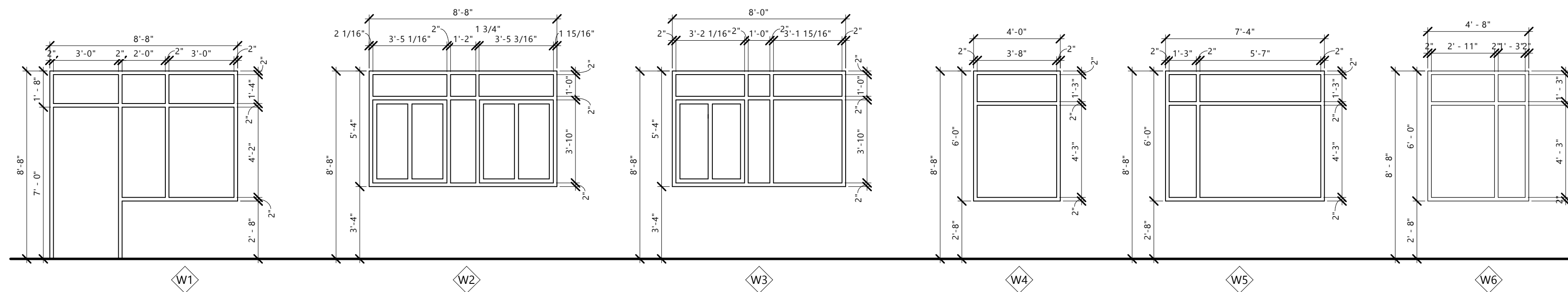
| DR # | ROOM | DOOR PANEL | | | | | | DOOR FRAME | | DETAILS | | FIRE RATING | H.W. GROUP | NOTES |
|------|------------------|------------|-------|--------|------|------|------|------------|------|---------|--|-------------|------------|-------|
| | | SIZE | | THK. | MAT. | TYPE | MAT. | TYPE | HEAD | JAMB | | | | |
| | | W | H | | | | | | | | | | | |
| 100 | CHECK-IN/GUARDS | 3'-0" | 7'-4" | 1 3/4" | AL | FGIR | AL | AL-1 | | | | | | |
| 101 | STAFF | 3'-0" | 7'-0" | 2" | WD | F | HM | HM-3 | | | | | | |
| 102 | WOMEN'S CHANGING | 3'-0" | 7'-0" | 1 3/4" | AL | F | AL | HM-1 | | | | | | |
| 103 | MEN'S CHANGING | 3'-0" | 7'-0" | 1 3/4" | AL | F | AL | HM-1 | | | | | | |
| 104 | FAMILY 1 | 3'-0" | 7'-0" | 1 3/4" | AL | F | AL | HM-1 | | | | | | |
| 105 | FAMILY 2 | 3'-0" | 7'-0" | 1 3/4" | AL | F | AL | HM-1 | | | | | | |
| 106A | MECHANICAL | 3'-0" | 7'-0" | 1 3/4" | HM | F | HM | HM-1 | | | | | | |
| 106B | | 3'-0" | 7'-0" | 2" | | | | | | | | | | |
| 107A | CONCESSIONS | 3'-0" | 7'-0" | 1 3/4" | HM | F | HM | HM-1 | | | | | | |
| 107B | CONCESSIONS | 8'-0" | 4'-0" | 1" | AL | - | AL | | | | | | | |
| 108 | MULTI-PURPOSE | 3'-0" | 7'-0" | 1 3/4" | AL | F | AL | HM-1 | | | | | | |
| 109 | STORAGE | 2'-10" | 7'-0" | 2" | WD | F | HM | HM-3 | | | | | | |
| 110A | POOL EQUIPMENT | 3'-0" | 7'-0" | 1 3/4" | HM | F | HM | HM-1 | | | | | | |
| 110B | POOL EQUIPMENT | 6'-0" | 7'-0" | 1 3/4" | HM | F | HM | HM-2 | | | | | | |
| 111 | CHLOR. | 6'-0" | 7'-0" | 1 3/4" | HM | F | HM | HM-2 | | | | | | |
| 112 | CO2 | 3'-0" | 7'-0" | 2" | HM | F | HM | HM-3 | | | | | | |



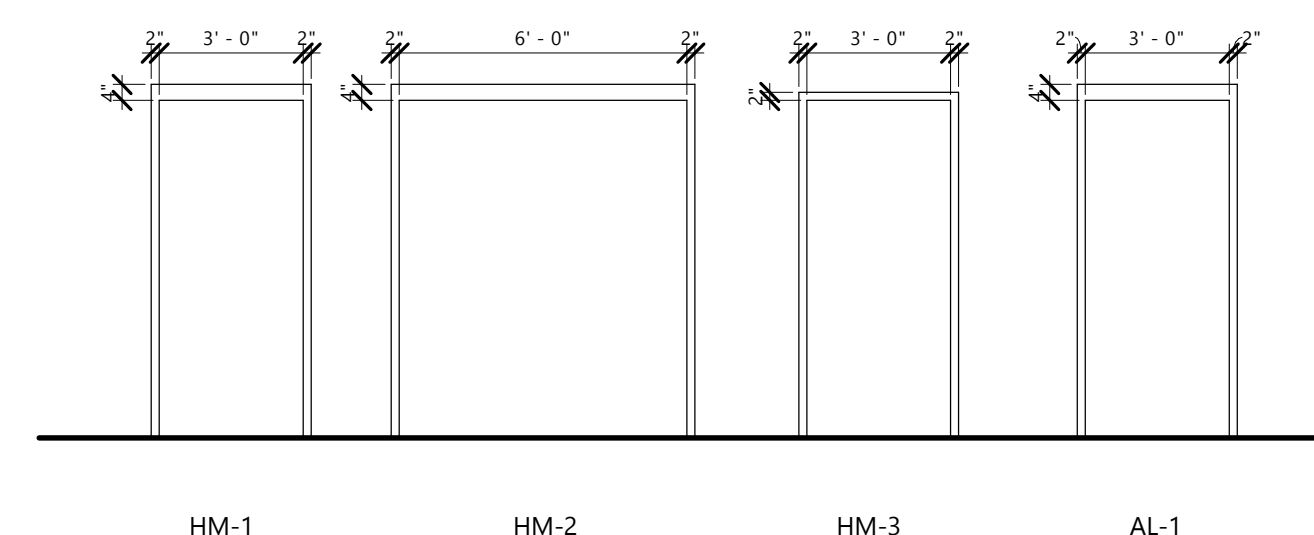
5 HM DOOR FRAME HEADER DETAIL
A801 3" = 1'-0"



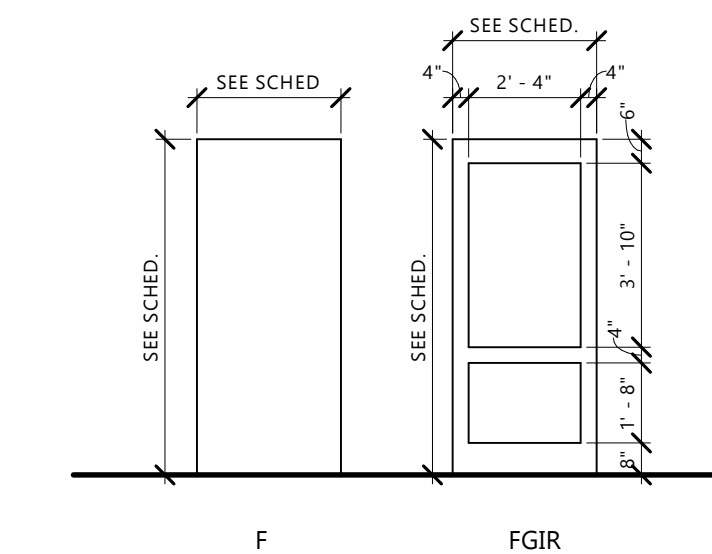
4 HM DOOR FRAME JAMB DETAIL
A801 3" = 1'-0"



3 WINDOW ELEVATIONS
A801 1/4" = 1'-0"



2 DOOR FRAME ELEVATIONS
A801 1/4" = 1'-0"



1 DOOR ELEVATIONS
A801 1/4" = 1'-0"

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Signature: *[Signature]*

Date: 5/19/2023 REG. NO.: 1718

DRAWING TITLE
**FIRST FLOOR INTERIOR
FINISH PLAN,
SCHEDULES**

GENERAL FINISH NOTES

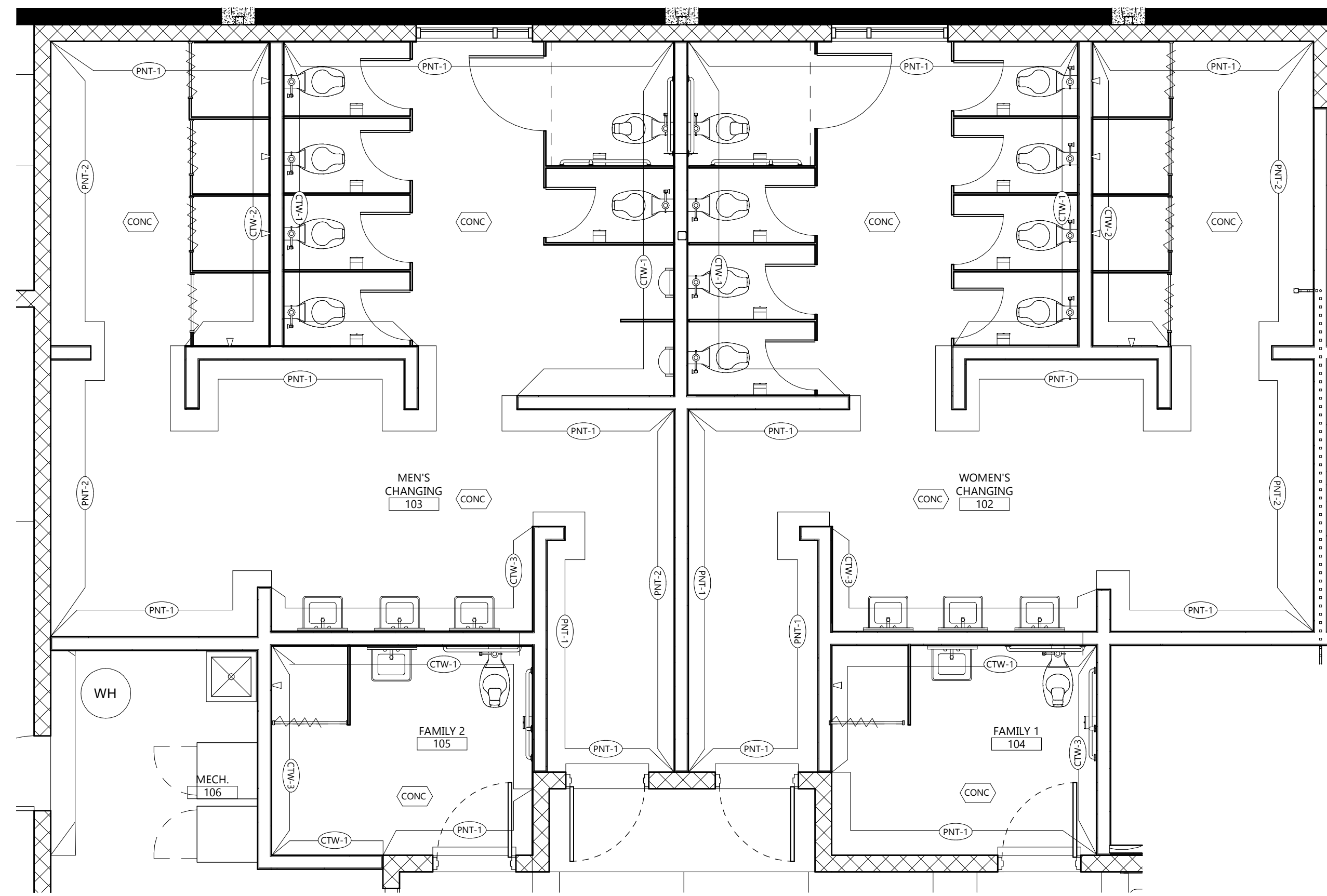
- REFER TO FINISH PLANS AND ROOM ELEVATIONS FOR ADDITIONAL FINISH LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY LEAD TIMES FOR ALL FINISHES SPECIFIED WITHIN THE CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED, AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.
- ALL TRANSITIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATED DIRECTLY UNDER CENTER OF DOOR, WHERE OCCURS, UNO.
- ALL SEALANTS TO MATCH SURFACE IN WHICH THEY OCCUR.
- JOINTS IN VINYL BASE SHALL NOT OCCUR CLOSER THAN 6" FROM CORNER AND SHALL BE BUTTED TIGHTLY TOGETHER.
- PAINT ALL MISCELLANEOUS ITEMS SCHEDULED TO BE PAINTED, PAINT TO MATCH THE SURFACE IN WHICH THEY OCCUR.
- ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS SCHEDULED TO BE PAINTED SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
- UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON EXPOSED SURFACES.
- EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH-UP" AS REQUIRED.
- UNDERSIDE OF SOFFITS (WHERE OCCURS) TO RECEIVE A FINISH TO MATCH THE ADJACENT SOFFIT VERTICAL FINISH, UNO.
- PAINT CEILING ACCESS PANELS WHERE THEY OCCUR TO MATCH ADJACENT CEILING FINISH.
- STAINED AND PAINTED SURFACES SHALL BE FINISHED SUCH THAT JOINTS ARE NOT VISIBLE WHEN VIEWED FROM ANY ANGLE AS DETERMINED BY THE ARCHITECT.
- REFER TO INTERIOR ELEVATIONS FOR LOCATIONS/TYPES OF PLASTIC LAMINATE AND SOLID SURFACE MATERIALS.
- ALL WALLS TO RECEIVE RB-1, UNO.
- ALL COVER PLATES, SWITCHES, OUTLETS, RECEPTACLES AND DEVICES TO BE WHITE, UNO.
- PROVIDE FIBERGLASS REINFORCED PANELS (FRP-1) 96" HEIGHT IN HOUSEKEEPING, SOILED UTILITY, EQUIPMENT STORAGE AREAS, AND OTHER ROOMS AS INDICATED IN THE ELEVATIONS AND THE WALL FINISH PLANS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL LOCATIONS OF ACCENT MATERIALS AND PROTECTIVE WALLCOVERING.
- ALL RESTROOMS AND LOCKER ROOMS TO HAVE CERAMIC TILE (CTW) TO 8'-0" WITH PAINT (PNT-3) ABOVE. WHERE PAINT IS CALLED OUT EPOXY SHOULD BE USED TO 8'-0" WITH STANDARD PAINT ABOVE AS INDICATED IN DRAWINGS AND SPECIFICATION.
- ALL WINDOWS TO RECEIVE MANUAL ROLLER SHADES (WT-1), UNO.
- ALL EXPOSED WOOD TRUSSES AND MECHANICAL EQUIPMENT TO BE PAINTED (PNT-3) AS INDICATED ON DRAWINGS AND SPECIFICATIONS.

MATERIAL IDENTIFICATION CODES (BASIS OF DESIGN)

| | | |
|------------|--------|--|
| 06 4116 | PLAM | PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS |
| | PLAM-2 | FORMICA, 949-SP, WHITE, SCULPTED FINISH |
| 09 3013 | CTW | CERAMIC TILE (WALLS & FLOOR) |
| | CTW-1 | VIRGINIA TILE, ATLAS CONCORDE, REFLEX, MERCURY 12"x24" GROUT: TBD INSTALLED: VERTICAL VIRGINIA TILE, FRIEZE, FLOW, WHITE 12"x24" GROUT: WHITE INSTALLED: VERTICAL |
| | CTW-2 | VIRGINIA TILE, ATLAS CONCORDE, BOOST PRO, POWDER BLUE 16"x31.5" GROUT: TBD INSTALLED: HORIZONTAL |
| 09 6513 | RB, TS | RESILIENT BASE AND ACCESSORIES |
| | RB-1 | JOHNSONITE-TARKETT, 4" COVE BASE, BURNT UMBER B 63 |
| 09 9124 | PNT | INTERIOR PAINTING |
| | SLC-1 | SEALED CONCRETE, COMMERCIAL GRADE ?? |
| | PNT-1 | SHERWIN WILLIAMS, SW7029, AGREEABLE GREY (EPOXY)?? |
| | PNT-2 | SHERWIN WILLIAMS, SW9141, WATERLOO (EPOXY)?? |
| | PNT-3 | SHERWIN WILLIAMS, SW7029, AGREEABLE GREY |
| | PNT-4 | SHERWIN WILLIAMS, SW9141, WATERLOO |
| 10 2113.19 | PTC | PLASTIC TOILET COMPARTMENTS |
| | PTC-1 | SCRANTON PRODUCTS, GREY |
| 10 2600 | CG | WALL AND DOOR PROTECTION |
| | CG-1: | INPRO, SURFACE MOUNT STAINLESS STEEL CORNER GUARD, 4" HIGH, 2" WING INSTALLED: AT ALL OUTSIDE CORNERS |
| 12 2413 | WT | ROLLER WINDOW SHADES |
| | WT-1: | MECHOSHA, THERMOVEIL, 1300 SERIES, 5% OPENNESS, COLOR TBD |
| 12 3553 | PLAM | PLASTIC LAMINATE CLAD COUNTERTOPS |
| | PLAM-1 | WILSONART, 5018-38, WASHI PEWTER, FINE VELVET FINISH |
| 12 3661.16 | SSF | SOLID SURFACE FABRICATION |
| | SSF-1 | WILSONART, QUIET SWIRL, #9241SS |

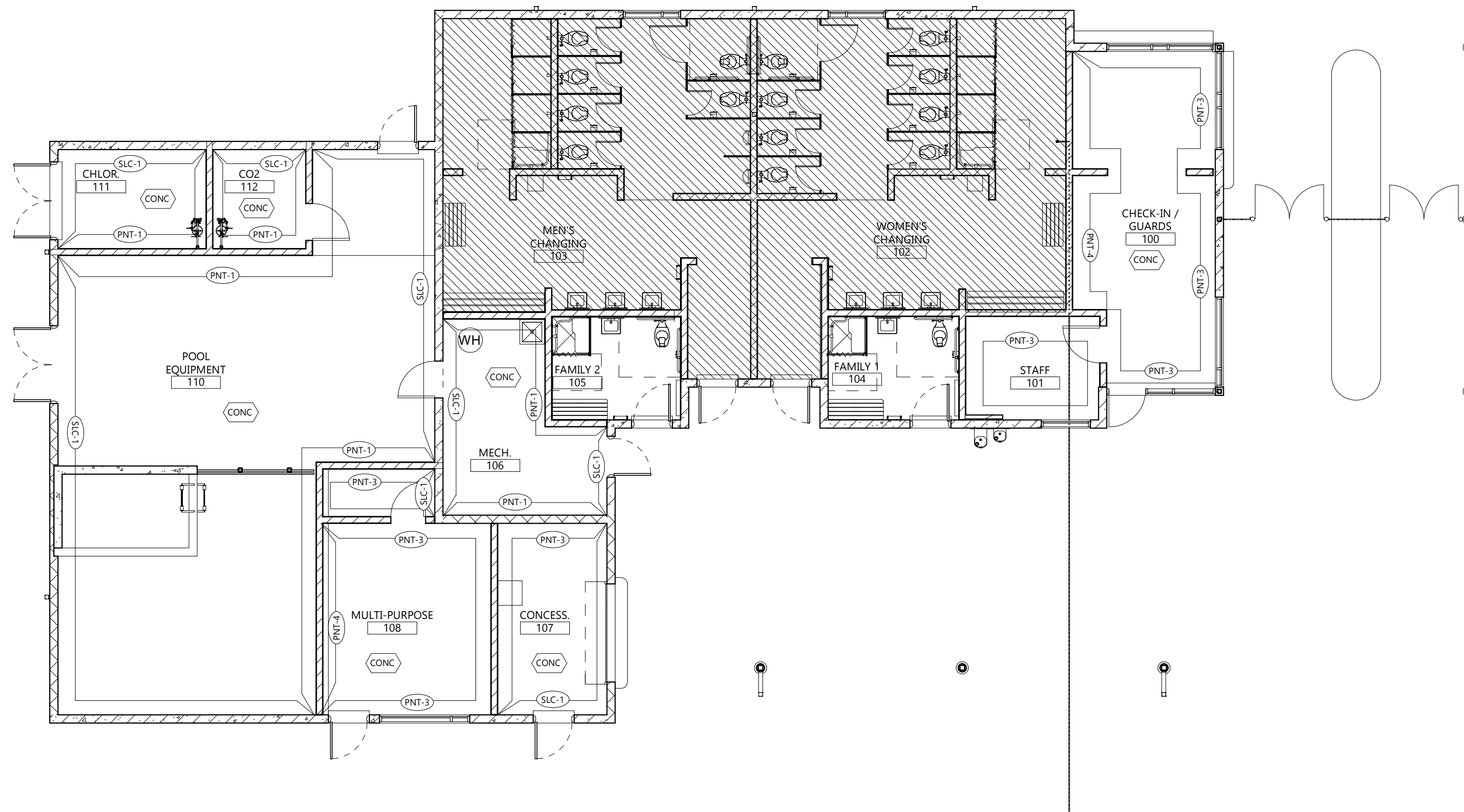
FINISH LEGEND

- (PT-X) WALL FINISH SYMBOL
- (CT-X) FLOOR FINISH SYMBOL
- (EX TER) EXISTING TERRAZZO TO REMAIN
- (EX WD) EXISTING WOOD TO REMAIN, STRIP & RESTORE
- CPT-1 (J&J FLOORING - FRACTURED PLAID, MILLS)
- CPT-2 (J&J FLOORING - TWILL WEAVE, MILLS)
- CPT-3 (J&J FLOORING - STRIA - PIMA)



2 ENLARGED WET AREA - FINISH PLAN

A901 1/4" = 1'-0"



1 FIRST FLOOR FINISH PLAN

A901 1/8" = 1'-0"

DESIGN CODES - ALL CODES LATEST EDITION UON:

Table listing design codes: AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AWS AMERICAN WELDING SOCIETY STANDARDS FOR WELDING AS MODIFIED BY AISC SPEC, etc.

NOTE: CODES ARE AMENDED AS REQUIRED BY THE STATE BUILDING CODE WITH JURISDICTION GOVERNING THE PROJECT LOCATION.

DESIGN LOADS:

THE DESIGN INCLUDED HERewith IS BASED ON THE FOLLOWING DESIGN LOADS SUPERIMPOSED ON THE COMPLETED BUILDING.

SNOW LOADS:

Table for snow loads: FLAT ROOF SNOW LOAD (BUILDING) Pf = 26 PSF, GROUND SNOW LOAD Pg = 30 PSF, SNOW EXPOSURE FACTOR Ce = 1.0, etc.

ROOF DEAD LOADS:

Table for roof dead loads: TOP CHORD = 10 PSF, BOTTOM CHORD = 10 PSF, BOTTOM CHORD (OPEN CEILING) = 5 PSF

FLOOR LIVE LOADS:

Table for floor live loads: MECHANICAL ROOMS = 125 PSF, STORAGE AREAS = 125 PSF, ALL OTHER AREAS = 100 PSF

CRANE LOAD:

Table for crane load: LIVE LOAD = 2,000 LBS, LOAD IMPACT FACTOR = 1.25

WALLS - MWFRS:

Table for walls - MWFRS: EXTERIOR LATERAL WIND PRESSURE - MWFRS = 20 PSF FROM 0-20 FEET HIGH, EXTERIOR LATERAL WIND PRESSURE - MWFRS = 25 PSF FROM 20-40 FEET HIGH

WIND LOADS: (ALL WIND LOADS STATED ARE UNFACTORED)

Table for wind loads: WIND DESIGN CRITERIA (PER ASCE 7) BASE WIND SPEED = 115 MPH (3 SECOND GUST), RISK CATEGORY = II, EXPOSURE = C, etc.

COMPONENT & CLADDING DESIGN PRESSURE:

Table for component & cladding design pressure: ZONE 1 = 9.6/-21.5 PSF, ZONE 2 = 9.6/-28.5 PSF, ZONE 3 = 9.6/-34 PSF, ZONE 4 = 14.7/-16.2 PSF, ZONE 5 = 14.7/-18 PSF

A=6 FT

SEISMIC DESIGN CRITERIA:

Table for seismic design criteria: SEISMIC IMPORTANCE FACTOR = I, RISK CATEGORY = D (ASSUMED), SEISMIC SITE CLASS = A, SEISMIC DESIGN CATEGORY = A, MAPPED SPECTRAL RESPONSE COEFFICIENTS:(%g) - ASCE 7 Ss = 0.066, S1 = 0.022

SPECTRAL RESPONSE COEFFICIENTS:

Table for spectral response coefficients: Sds = 0.070, Sd1 = 0.036

ALLOWABLE SOIL BEARING PRESSURE

= 1,800 PSF PER GEOTECHNICAL REPORT FROM AMERICAN ENGINEERING TESTING. (AET REPORT NO. P-0018831 DATED 02/07/2023)

MATERIAL SPECIFICATIONS:

SEE SPECIFICATIONS FOR COMPLETE SPECIFICATIONS

STRUCTURAL STEEL:

Table for structural steel: W-FLANGE/W-TEE SHAPES ASTM A992 (Fy=50 KSI), HSS SQUARE/RECTANGULAR SECTIONS ASTM A500 Grade B (Fy=46 KSI), PLATES/ANGLES/CHANNELS ASTM A36 (Fy=36 KSI), etc.

WOOD:

Table for wood: STUDS SPF STUD GRADE (UON ON PLANS), DIMENSIONAL HEADERS/TOP PLATE SPF No. 1/No. 2 OR #2 SOUTHERN PINE, MISCELLANEOUS BLOCKING SPF STUD GRADE, etc.

CONCRETE:

Table for concrete: REINFORCING BARS ASTM A615 GR 60, DEFORMED, FABRICATE TO CRSI STANDARDS, WELDED REBAR ASTM A706, GR 60, DEFORMED

CONCRETE (28 DAY COMPRESSIVE STRENGTH):

Table for concrete (28 day): FOOTINGS/FOUNDATION WALLS/PIERS/SLABS f'c = 4000 PSI (USE 6% (+/-) 1.5%) ENTRAINED AIR AT EXTERIOR CONCRETE

LIGHT GAUGE STEEL:

Table for light gauge steel: STUDS & TRACKS Fy = 50 KSI, MINIMUM FOUNDATION INSULATION ASTM C578 EXTRUDED POLYSTYRENE

GENERAL REQUIREMENTS

- 1. GENERAL CONTRACTOR TO PROVIDE AN AS-BUILT SET OF DRAWINGS FOR EACH SHEET TO EAPC AT THE COMPLETION OF THE PROJECT WITH ALL CHANGES MADE IN THE FIELD CLEARLY MARKED ON IT.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL STRUCTURAL SYSTEMS WITH ARCHITECTURAL FINISHES, DETAILS, ETC. CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL SYSTEMS TO AVOID CUTTING OR ALTERING STRUCTURAL MEMBERS IN ANY MANNER.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PREPARED AS OUTLINED IN THE SPECIFICATIONS MANUAL PRIOR TO FABRICATING ANY STRUCTURAL MEMBER.

SPECIAL INSPECTION/TESTING:

- 1. IN ADDITION TO INSPECTIONS REQUIRED BY SECTION 110, SPECIAL INSPECTION AND TESTING AGENCIES SHALL PERFORM WORK IN ACCORDANCE WITH THE IRC 2018 EDITION IN CHAPTER 17.
2. TESTING FREQUENCY AND LOCATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIAL INSPECTION AND TESTING SCHEDULE INCLUDED WITH THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTOR WITH SUFFICIENT NOTICE AND ACCESS TO ALL ITEMS REQUIRED FOR INSPECTION.

CAST-IN-PLACE CONCRETE:

- 1. CONCRETE SHALL BE REDI-MIXED PRODUCT (PLANT MIXED) ACCORDING TO APPROVED CONCRETE MIX DESIGN SUBMITTALS. CONTRACTOR SHALL PROVIDE CONCRETE MIX DESIGN SUBMITTAL TO ENGINEER OF RECORD.
2. CONCRETE MIX DESIGN SHALL BE PREPARED WITH ONE OF THE FOLLOWING TWO OPTIONS: A. CONCRETE REDI-MIX PLANT SHALL PROVIDE A HISTORY OF EACH MIX DESIGN.
3. THE COST TO PREPARE THE MIX DESIGN SUBMITTAL AND ANY ASSOCIATED COSTS FOR TESTING TO PROVIDE A HISTORY SHALL BE PAID BY THE CONTRACTOR.

CONCRETE REINFORCING:

- 1. ALL REINFORCING BAR LAPS SHALL BE CLASS "B" UNLESS NOTED OTHERWISE, PLUS 6" AT NON-CONTACT SPLICES. SEE MASONRY/CONCRETE NOTES FOR BAR LAP SPLICE LENGTHS.
2. PROVIDE CONCRETE COVER AT REINFORCING PER THE FOLLOWING:

CONCRETE:

- 1. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SOILS FROM FREEZING OR REMOVE THEM PRIOR TO CONSTRUCTION.
2. CONCRETE SHALL NOT BE CAST AGAINST FROZEN SOILS. FROZEN SOILS SHALL BE REMOVED PRIOR TO CASTING FOOTINGS. REPLACE FROZEN SOILS WITH COMPACTED ENGINEER FILL.
3. INSULATED PROTECTIVE BLANKETS OR OTHER SUPPLEMENTAL HEAT SHALL BE USED TO PROVIDE SUFFICIENT PROTECTION TO MAINTAIN DESIGNED CURING TEMPERATURES.

Table for concrete temperatures: REQUIRED CONCRETE TEMPERATURES, AIR TEMPERATURE, SECTION SIZE, MINIMUM DIMENSION, MINIMUM CONCRETE TEMPERATURE AS PLACED AND MAINTAINED

CONCRETE REINFORCING:

- 1. ALL REINFORCING BAR LAPS SHALL BE CLASS "B" UNLESS NOTED OTHERWISE, PLUS 6" AT NON-CONTACT SPLICES. SEE MASONRY/CONCRETE NOTES FOR BAR LAP SPLICE LENGTHS.
2. PROVIDE CONCRETE COVER AT REINFORCING PER THE FOLLOWING:

Table for concrete cover at steel reinforcing: REINFORCING LOCATION, MINIMUM COVER, CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, CONCRETE EXPOSED TO EARTH OR WEATHER #6 OR GREATER, etc.

- 3. REINFORCE FOOTINGS BELOW ALL FOUNDATION WALLS WITH A MINIMUM OF TWO #5 BARS CONTINUOUS LONGITUDINAL UNLESS NOTED OTHERWISE.
4. REINFORCING IN WALLS AND FOOTINGS TO BEND 2'-6" AROUND ALL CORNERS OR USE 5'-0" CORNER BARS.
5. CONTRACTOR SHALL SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS INCLUDING BAR SCHEDULES, SHAPES OF BENT BARS, SPACING OF BARS AND LOCATION OF SPLICES TO ENGINEER OF RECORD.

CAST-IN-PLACE CONCRETE FIELD QUALITY CONTROL:

- A. TESTING AND INSPECTING: CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.
B. CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
1. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD. (4 CU. M), BUT LESS THAN 25 CU. YD. (19 CU. M), PLUS ONE SET FOR EACH ADDITIONAL 50 CU.YD. (38 CU. M) OR FRACTION THEREOF.

MASONRY:

- 1. REINFORCE MASONRY WALLS THUS (UON): VERTICAL REINFORCEMENT: #5 BARS AT 32" ON CENTER. HORIZONTAL REINFORCEMENT: NO. 9 WIRE JOINT TYPE ON 16" VERTICAL CENTERS.
2. REINFORCE INTERIOR NON-BEARING WALLS W/1)-#5 CENTERED @ 8'-0" O/C AND HORIZONTAL REINFORCING @ 16" O/C VERTICALLY.
3. GROUT MASONRY CORES AT VERTICAL REINFORCING SOLID IN 48" LIFTS WITH 3000 PSI CONCRETE GROUT. SUBMIT CONCRETE GROUT DESIGN MIX TO ENGINEER OF RECORD FOR REVIEW PRIOR TO GROUTING CORES.

STRUCTURAL STEEL:

- 1. TOP OF STEEL FRAMING IS INDICATED ON PLAN BY () WHICH INDICATES THE ELEVATION OF THE TOP OF THE MEMBER.
2. STEEL CONNECTIONS SHALL BE DESIGNED TO ALL CONNECTIONS UNLESS LARGER DIA OR HIGHER STRENGTH BOLTS ARE REQUIRED BY DESIGN. INDEPENDENT AGENCY TO VISUALLY INSPECT INSTALLED BOLTS.
3. COLUMN AND BEAM LEVELING PLATES SHALL NOT BE USED.

ROUGH CARPENTRY:

- 1. FASTEN MULTIPLE MEMBERS TOGETHER AS FOLLOWS (UON): 2-MEMBER 3 ROWS OF 12d NAILS @ 12" O/C. 3-MEMBER 3 ROWS OF 12d NAILS @ 12" O/C FROM EACH SIDE. 4-MEMBER 2 ROWS OF 1/2" OTHRU-BOLTS @ 12" O/C (2" FROM MEMBER EDGE)
2. PROVIDE WOOD FRAMING CONNECTIONS PER THE INTERNATIONAL BUILDING CODE NAILING SCHEDULE (TABLE 2304.9.1) UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS.
3. USE A MINIMUM OF ONE JAMB STUD AND ONE KING STUD AT EACH SIDE OF EACH WALL OPENING AT OPENINGS LESS THAN 6 FEET WIDE UNLESS NOTED OTHERWISE ON PLAN.

WOOD STRUCTURES:

- 1. ALL WALL SHEATHING AND BRACING SHALL BE IN PLACE PRIOR TO CONSTRUCTING THE FLOOR OR ROOF ABOVE.
2. ALL WALL OPENINGS SUCH AS WINDOWS AND DOOR OPENINGS SHALL BE COVERED AND REMAIN COVERED UNTIL THE ACTUAL WINDOWS AND DOORS ARE PLACED.
3. EVERY THIRD STUD IN THE EXTERIOR WALLS TO BE CONNECTED TO THE BASE AND TOP PLATES WITH "HURRICANE CLIPS" AND THE FLOOR AND ROOF TRUSSES TO BE CONNECTED TO THE BEARING PLATES WITH "HURRICANE CLIPS".

WOOD JOISTS & BEAMS:

ALL JOISTS AND BEAMS SHALL BE HEM-FIR, S4S AND SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION. ALL THE LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. ALL WOOD MEMBERS SHALL CONFORM TO THE FOLLOWING GRADES:

Table for wood joists & beams: 2 X JOISTS HEM-FIR No. 2 Fb = 850 PSI, 4 X JOISTS HEM-FIR No. 1 Fb = 1050 PSI, POSTS & TIMBERS HEM-FIR No. 1 Fb = 950 PSI

PSL (PARALLEL STRAND LUMBER) FOR BEAMS AND HEADERS

Fb = 2900 PSI, E = 2,000,000 PSI
MULTIPLE BEAMS SHALL BE FASTENED TOGETHER WITH 2 ROWS OF 16d NAILS AT 12" O/C. FOR BEAMS 14" AND DEEPER, FASTEN TOGETHER WITH 3 ROWS OF 16d NAILS AT 12" O/C.

LVL (LAMINATED VENEER LUMBER) FOR BEAMS AND HEADERS

Fb = 2600 PSI, E = 1,900,000 PSI
MULTIPLE BEAMS SHALL BE FASTENED TOGETHER WITH 2 ROWS OF 16d NAILS AT 12" O/C. FOR BEAMS 14" AND DEEPER, FASTEN TOGETHER WITH 3 ROWS OF 16d NAILS AT 12" O/C.

LSL (LAMINATED STRAND LUMBER) FOR BEAMS AND HEADERS

Fb = 1700 PSI, E = 1,300,000 PSI
Fb = 2250 PSI, E = 1,500,000 PSI
MULTIPLE BEAMS SHALL BE FASTENED TOGETHER WITH 2 ROWS OF 16d NAILS AT 12" O/C. FOR BEAMS 14" AND DEEPER, FASTEN TOGETHER WITH 3 ROWS OF 16d NAILS AT 12" O/C.

PREFABRICATED (PRE-ENGINEERED) WOOD TRUSSES:

- 1. FABRICATED WOOD TRUSSES SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE PLAN BY THE TRUSS FABRICATOR IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION AND THE TRUSS PLATE INSTITUTE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES.
2. TRUSS FABRICATOR MAY AT THEIR OPTION FURNISH DIFFERENT ARRANGEMENT OF TRUSS WEB MEMBERS, AS MAY BE ECONOMICAL FOR THEIR METHOD OF FABRICATION. FOR EACH ARRANGEMENT, THE TRUSS FABRICATOR SHALL FURNISH SHOP DRAWINGS INDICATING DESIGN AND DETAIL PRIOR TO FABRICATION.
3. ALL WOOD TRUSSES SHALL BE FABRICATED PER TRUSS PLATE INSTITUTE STANDARDS. TRUSS DESIGN SHALL BE BY TRUSS FABRICATOR.

EARTHWORK:

- 1. NOTIFY ENGINEER OF RECORD IMMEDIATELY IF ANY QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATION. FOOTING ELEVATIONS AND SUBGRADE PREPARATION ARE SUBJECT TO CHANGE DEPENDING ON CONDITIONS ENCOUNTERED DURING EXCAVATION.
2. OWNER'S GEOTECHNICAL ENGINEER SHALL TEST AND/OR INSPECT SUBGRADE BELOW ALL FOOTING EXCAVATIONS PRIOR TO PROCEEDING WITH PLACEMENT OF FOOTINGS. NO FILL SHALL BE PLACED UNTIL EXCAVATION BOTTOM HAS BEEN INSPECTED AND TESTING IS COMPLETE. CONTRACTOR SHALL NOTIFY TESTING AGENCY 24 HOURS MINIMUM PRIOR TO INSPECTION.
3. ENGINEERED FILL BELOW FOOTINGS AND SLAB WHERE REQUIRED SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS.

EAPC logo and contact information: Architecture Engineering Interior Design Industrial, TELE 701.461.7222 FAX 701.461.7223, 112 No.Roberts Street, Suite 300, Fargo ND 58102, www.eapc.net

CONSULTANTS

CLIENT

WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION

WILLISTON WATER WORLD

CITY

WILLISTON ND

STATE

ND

ISSUE DATES

Table for issue dates: CD CONSTRUCTION DOCUMENTS 05/19/2023, MARK DESCRIPTION DATE

PROJECT NO:

20224620

DRAWN BY:

WLM

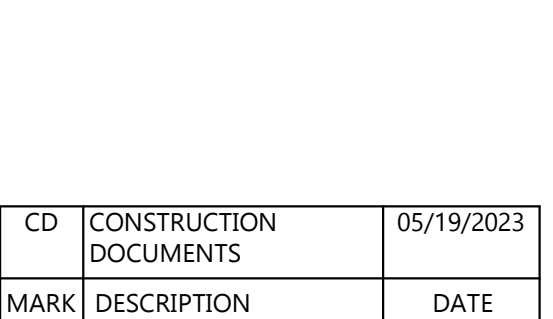
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CONSULTANTS

CLIENT
WILLISTON COMMUNITY BUILDERS

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WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **ND**

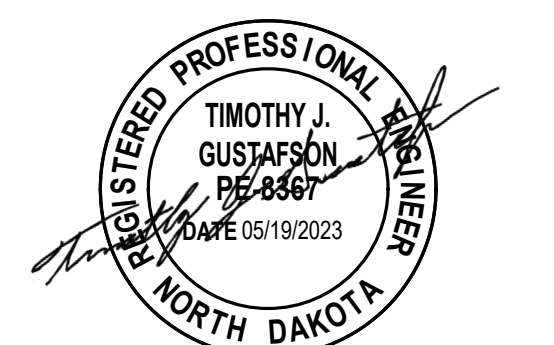
ISSUE DATES

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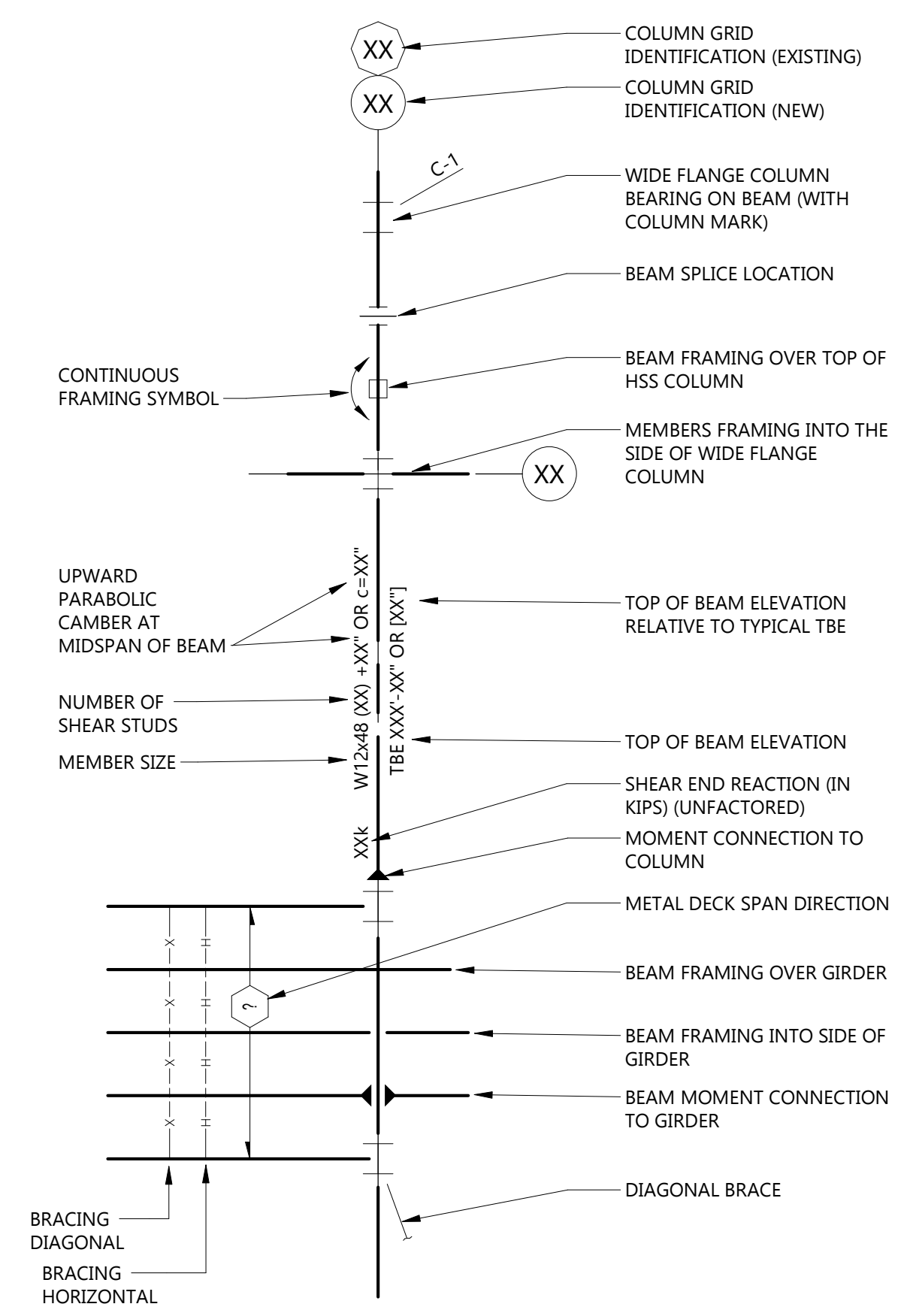
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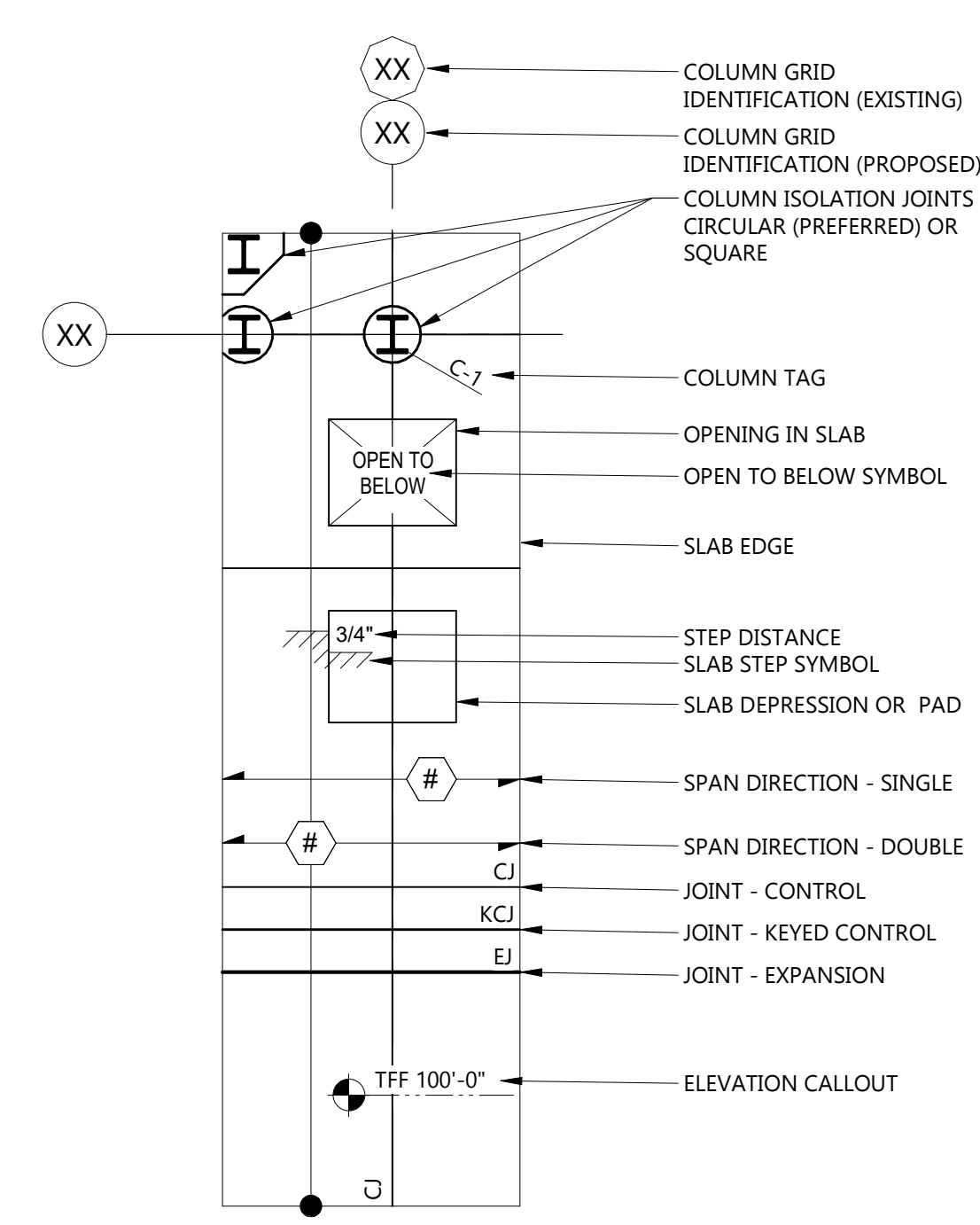
DRAWING TITLE
STRUCTURAL LEGENDS AND ABBREVIATIONS

| | |
|---------|--|
| A | ANCHOR BOLT |
| ADDL | ADDITIONAL |
| ADH | ADHESIVE |
| ADJ | ADJUSTABLE |
| ADJC | ADJACENT |
| AFFS | ARCHITECTURALLY EXPOSED FABRICATIONS STEEL |
| AESS | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| AFF | ABOVE FINISHED FLOOR |
| AL | ALUMINIUM |
| ALT | ALTERNATE |
| ANC | ANCHORAGE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| ASSY | ASSEMBLY |
| B | BOTH FACES |
| BBE | BEAM BEARING ELEVATION |
| BFE | BOTTOM OF FOOTING |
| BLDG | BUILDING |
| BLK(G) | BLOCKING |
| BM | BEAM |
| BP | BENT PLATE |
| BRDG | BRIDGE (ING) |
| BNG | BEARING |
| BRK | BRICK |
| BT | BENT |
| BTM | BOTTOM |
| BTDB | BACK-TO-BACK |
| C | AMERICAN STANDARD CHANNEL |
| C/C | CENTER TO CENTER |
| CAP | CAPACITY |
| CF | CUBIC FOOT (FEET) |
| CHAM | CHAMFER |
| CHKD | CHECKED |
| CIP | CAST-IN-PLACE |
| CJ | CONTROL/CONSTRUCTION JOINT |
| CJP | COMPLETE JOINT PENETRATION |
| CL | CENTERLINE |
| CLR | CLEAR |
| CM | CORRUGATED METAL |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| COMP | COMPOSITE |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUE (OUS) (ATION) |
| CONTR | CONTRACTOR |
| COORD | COORDINATE |
| CORR | CORRIDOR |
| D | |
| D&E | DRILL AND EPOXY GROUT |
| DBA | DEFORMED BAR ANCHOR |
| DBE | DECK BEARING ELEVATION |
| DBL | DOUBLE |
| DETL | DETAIL |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DL | DEAD LOAD |
| DO | DITTO |
| DR | DOOR |
| DT | DOUBLE TEE/DRAIN TILE |
| DWG(S) | DRAWING(S) |
| DWL | DOWEL (REBAR) |
| E | |
| E/F | EACH FACE |
| E/S | EACH SIDE |
| E/W | EACH WAY |
| EA | EACH |
| EB | EXPANSION BOLT |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| EQ | EQUAL |
| EQP | EQUIPMENT |
| ETR | EXISTING TO REMAIN |
| EX | EXISTING |
| EXP | EXPOSED/EXPANSION |
| EXT | EXTERIOR |
| F | |
| FB | FACE BRICK |
| FD | FLOOR DRAIN |
| FFE | FINISHED FLOOR ELEVATION |
| FIN | FINISHED |
| FL | FLOOR |
| FLG | FLANGE |
| FNDN | FOUNDATION |
| FS | FAR SIDE |
| FTG | FOOTING |
| G | |
| GA | GAUGE |
| GALV | GALVANIZED |
| GLB | GLUE LAMINATED BEAM |
| GR | GRADE |
| H | |
| HC | HOLLOW CORE |
| HEX | HEXAGONAL |
| HGT | HEIGHT |
| HORIZ | HORIZONTAL |
| HPT | HIGH POINT |
| HR | HANDRAIL |
| HSS | HOLLOW STRUCTURAL SECTION |
| I | |
| I/D | INSIDE DIAMETER |
| I/F | INSIDE FACE |
| INFO | INFORMATION |
| INS | INSULATION |
| INT | INTERIOR |
| IT | INVERTED TEE |
| J | |
| JBE | JOIST BEARING ELEVATION |
| JST | JOIST |
| JT | JOINT |
| K | |
| k | KIP |
| KCJ | KEYED CONTROL JOINT |
| KLF | KIP PER LINEAR FOOT |
| KO | KNOCK OUT |
| KSF | KIP PER SQUARE FOOT |
| L | |
| L | ANGLE |
| LB | POUND |
| LN | LINEAR |
| LL | LIVE LOAD |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LOC | LOCATE (ION) |
| LONG | LONGITUDINAL(LY) |
| LPT | LOW POINT |
| LTR | LINTEL |
| LW | LIGHT WEIGHT |
| LWC | LIGHT WEIGHT CONCRETE |
| M | |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MC | MISCELLANEOUS CHANNEL |
| MECH | MECHANICAL |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MTL | METAL |
| N | |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NS | NEAR SIDE |
| NSG | NON-SHRINK GROUT |
| NTS | NOT TO SCALE |
| NW | NORMAL WEIGHT |
| O | |
| O/C | ON CENTER |
| O/D | OUTSIDE DIAMETER |
| O/F | OUTSIDE FACE |
| OH | OVERHEAD |
| OPG | OPENING |
| OPP | OPPOSITE |
| P | |
| PAR | PARALLEL |
| PC | PRECAST |
| PIP | PARTIAL JOINT PENETRATION |
| PL | PLATE |
| PLF | POUNDS PER LINEAL FOOT |
| PLWD | PLYWOOD |
| PNL | PANEL |
| PNT | PAINT |
| PROJ | PROJECT(ION) (OR) |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POST TENSION(ED) (ING) |
| PVC | POLY-VINYL CHLORIDE |
| Q | |
| QTY | QUANTITY |
| R | |
| R | RISER |
| RAD | RADIUS |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROOF DRAIN |
| REBAR | REINFORCING BAR |
| REF | REFERENCE |
| RENF | REINFORCE(ED) (ING) (EMENT) |
| REM | REMOVABLE |
| REQD | REQUIRED |
| RF | ROOF |
| RO | ROUGH OPENING |
| S | |
| S | S SHAPE |
| SC | SOLID CORE |
| SCHED | SCHEDULE |
| SCHED | SCHEDULE |
| SF | SQUARE FOOT |
| SIM | SIMILAR |
| SL | SNOW LOAD |
| SLV | SLEEVE |
| SOG | SLAB-ON-GRADE |
| SPEC(S) | SPECIFICATION(S) |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| STD | STANDARD |
| STIF | STIFFENER |
| STL | STEEL |
| STRUCT | STRUCTURE(IE) (AL) |
| SYM | SYMMETRY(ICAL) |
| T | |
| T&B | TOP AND BOTTOM |
| TBE | TOP OF BEAM ELEVATION |
| TCE | TOP OF COLUMN ELEVATION |
| TDE | TOP OF DECK ELEVATION |
| TEMP | TEMPERATURE/TEMPORARY |
| TFF | TOP OF FINISHED FLOOR |
| TGE | TOP OF GRATING ELEVATION |
| TJE | TOP OF JOIST ELEVATION |
| TLE | TOP OF LEDGE ELEVATION |
| TME | TOP OF MASONRY ELEVATION |
| TO | TOP OF |
| TPE | TOP OF PIER ELEVATION |
| TRANS | TRANSVERSE |
| TSE | TOP OF SLAB ELEVATION |
| TWE | TOP OF WALL ELEVATION |
| TYP | TYPICAL |
| U | |
| UNO | UNLESS NOTED OTHERWISE |
| UON | UNLESS OTHERWISE NOTED |
| V | |
| VAR | VARIES |
| VERT | VERTICAL |
| VIF | VERIFY IN FIELD |
| VR | VAPOR BARRIER |
| W | |
| W | WIDE FLANGE SHAPE |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WL | WIND LOAD |
| WPT | WORKING POINT |
| WS | WATER STOP |
| WT | WEIGHT/STRUCTURAL TEE |
| WWF | WELDED WIRE FABRIC |
| WWM | WELDED WIRE MESH |
| X | |
| XP(D) | EXPOSE(D) |
| # | POUND |
| ∠ | PER AT |
| @ | DEGREE |
| ∅ | DIAMETER |
| ⊥ | CENTERLINE |
| ∠ | ANGLE |

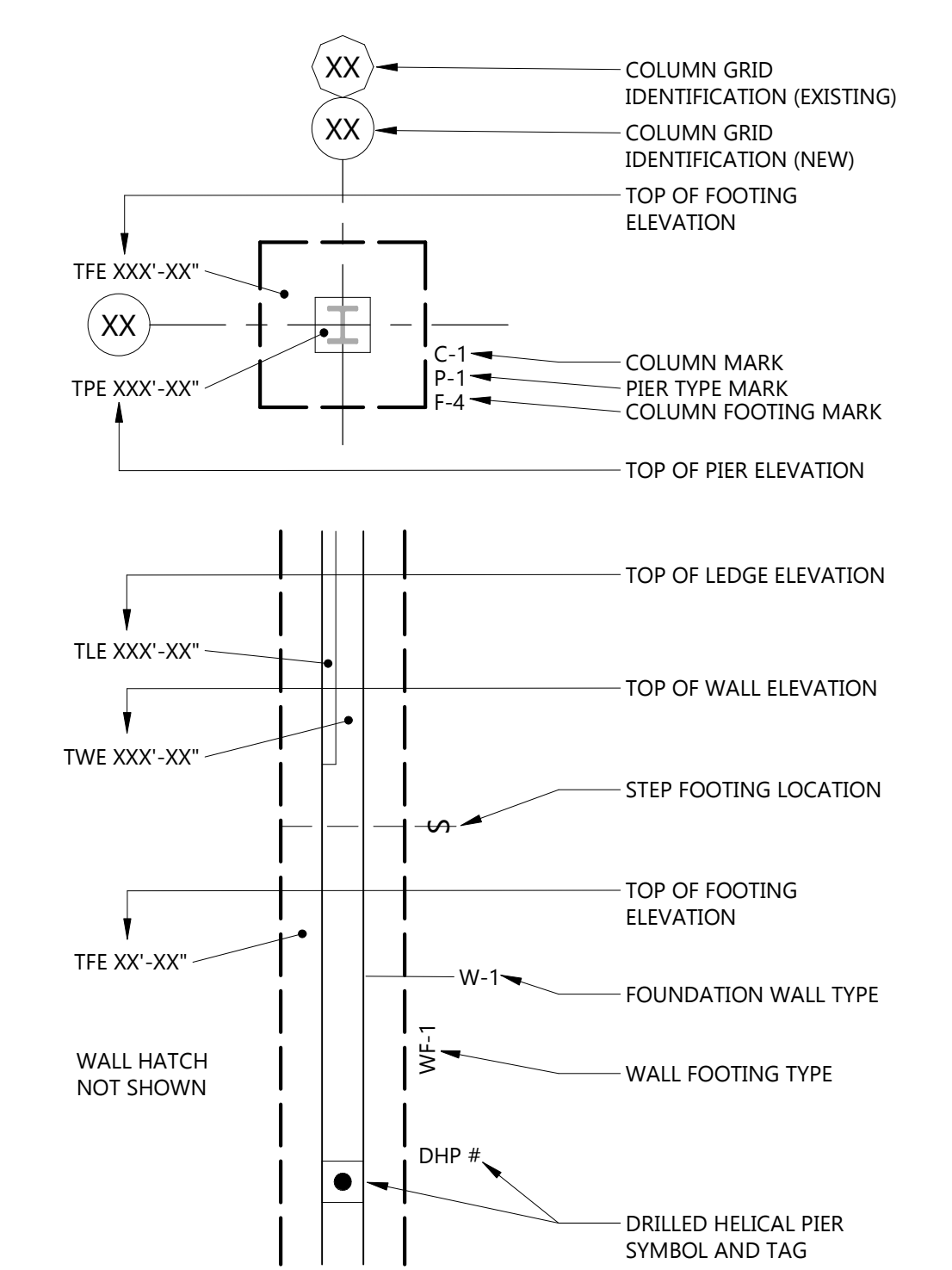
STEEL FRAMING LEGEND



STRUCTURAL SLAB LEGEND



FOUNDATION LEGEND



NOTE:
SOME SYMBOLS, COMPONENTS OR TAGS IN THE LEGENDS ARE DUMMY ONES, USE THE ACTUAL SYMBOLS, COMPONENTS OR TAGS. IF THE ACTUAL DOESN'T WORK THEN USE THE DUMMY ONES.

| REQUIRED SPECIAL INSPECTION OF CONCRETE CONSTRUCTION ¹ | | |
|---|------------|----------|
| VERIFICATION & INSPECTION | CONTINUOUS | PERIODIC |
| 1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT | -- | X |
| 2. REINFORCING BAR WELDING: | -- | -- |
| A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706 | -- | X |
| B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND | -- | X |
| C. INSPECT ALL OTHER WELDS | X | -- |
| 3. INSPECTION OF ANCHORS CAST INTO CONCRETE | -- | X |
| 4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS | -- | X |
| A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS | X | -- |
| B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE | -- | X |
| 5. VERIFYING USE OF REQUIRED DESIGN MIX | -- | X |
| 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE | X | -- |
| 7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES | X | -- |
| 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | -- | X |
| 9. INSPECTION OF PRESTRESSED CONCRETE FOR: | -- | -- |
| A. APPLICATION OF PRESTRESSING FORCE; AND | N/A | -- |
| B. GROUTING OF BONDED PRESTRESSING TENDONS | N/A | -- |
| 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS | -- | N/A |
| 11. VERIFICATION 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 | -- | N/A |
| 12. INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS PRIOR TO CONCRETE POUR | -- | X |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| REQUIRED SPECIAL INSPECTION OF CONCRETE MASONRY UNIT CONSTRUCTION ¹ | | |
|---|------------|----------|
| VERIFICATION & INSPECTION | CONTINUOUS | PERIODIC |
| 1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS | -- | X |
| 2. PRIOR TO CONSTRUCTION, VERIFICATION OF F _m AND F _{akc} EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE | -- | X |
| 3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE | X | -- |
| 4. AS MASONRY CONSTRUCTION BEGINS VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | -- | -- |
| A. PROPORTIONS OF SITE PREPARED MORTAR | -- | X |
| B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES | -- | X |
| C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS ANCHOR BOLTS AND PRESTRESSING TENDONS AND ANCHORAGE | -- | X |
| D. PRESTRESSING TECHNIQUE | -- | -- |
| E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY | X (a) | X (b) |
| F. SAMPLE PANEL CONSTRUCTION | -- | X |
| 5. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | -- | -- |
| A. GROUT SPACE | -- | X |
| B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES | -- | X |
| C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS | -- | X |
| D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS | -- | X |
| 6. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION: | -- | -- |
| A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS | -- | X |
| B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION | -- | X |
| C. SIZE AND LOCATION OF STRUCTURAL MEMBERS | -- | X |
| D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHERS CONSTRUCTION | -- | X |
| E. WELDING OF REINFORCEMENT | X | -- |
| F. PERPETRATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (44°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) | -- | X |
| G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE | X | -- |
| H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE | X | -- |
| I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS | X (a) | X (b) |
| 7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS | -- | X |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

NOTE a: REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

NOTE b: REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

| REQUIRED SPECIAL INSPECTION OF SOILS ¹ | | |
|---|------------|----------|
| VERIFICATION & INSPECTION | CONTINUOUS | PERIODIC |
| 1. VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY | -- | X |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL | -- | X |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS | -- | X |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL | X | -- |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY | -- | X |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC

| REQUIRED SPECIAL INSPECTION OF STEEL CONSTRUCTION ¹ | | | |
|--|------------|----------|--|
| VERIFICATION & INSPECTION | CONTINUOUS | PERIODIC | |
| 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: | | | |
| A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS | -- | X | |
| B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED | -- | X | |
| 2. INSPECTION OF HIGH-STRENGTH BOLTING | | | |
| A. SNUG-TIGHT JOINTS | -- | X | |
| B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION | -- | N/A | |
| C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION | N/A | -- | |
| 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | |
| A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 | -- | X | |
| B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS | -- | X | |
| C. MANUFACTURER'S CERTIFIED TEST REPORTS | -- | X | |
| 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | | | |
| A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS | -- | X | |
| B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED | -- | X | |
| 5. INSPECTION OF WELDING | | | |
| A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK | | | |
| 1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS | X | -- | |
| 2. MULTIPASS FILLET WELDS | X | -- | |
| 3. SINGLE-PASS FILLET WELDS >5/16" | X | -- | |
| 4. PLUG AND SLOT WELDS | X | -- | |
| 5. SINGLE-PASS FILLET WELDS OF 5/16" AND LESS | -- | X | |
| 6. FLOOR AND ROOF DECK WELDS | -- | X | |
| B. REINFORCING STEEL | | | |
| 1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 | -- | X | |
| 2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES | X | -- | |
| 3. SHEAR REINFORCEMENT | X | -- | |
| 4. OTHER REINFORCING STEEL | -- | X | |
| 4. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE | | | |
| A. DETAILS SUCH AS BRACING AND STIFFENING | -- | N/A | |
| B. MEMBER LOCATIONS | -- | N/A | |
| C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION | -- | N/A | |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND AISC STANDARDS

| INSPECTION TASKS PRIOR TO WELDING ¹ | | | |
|--|-------------------|-----------------|--|
| INSPECTION TASKS PRIOR TO WELDING | QUALITY ASSURANCE | QUALITY CONTROL | |
| 1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS | O | P | |
| 2. WSP AVAILABLE | P | P | |
| 3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | P | P | |
| 4. MATERIAL IDENTIFICATIONS (TYPE/GRADE) | O | O | |
| 5. MATERIAL IDENTIFICATIONS SYSTEM ^(a) | O | O | |
| 6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): | O | O | |
| • JOINT PREPARATIONS | | | |
| • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | | |
| • CLEANLINESS (CONDITION OF STEEL SURFACE) | | | |
| • TACKING (TACK WELD QUALITY AND LOCATION) | | | |
| • BACKING TYPE AND FIT (IF APPLICABLE) | | | |
| 7. FIT-UP OF CJP GROOVE WELDS OF HSS, T-, Y- AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY): | O | P | |
| • JOINT PREPARATIONS | | | |
| • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | | |
| • CLEANLINESS (CONDITION OF STEEL SURFACE) | | | |
| • TACKING (TACK WELD QUALITY AND LOCATION) | | | |
| 8. CONFIGURATION AND FINISH OF ACCESS HOLES | O | O | |
| 9. FIT-UP OF FILLET WELDS | O | O | |
| • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | | |
| • CLEANLINESS (CONDITION OF STEEL SURFACE) | | | |
| • TACKING (TACK WELD QUALITY AND LOCATION) | | | |
| 10. CHECK WELDING EQUIPMENT | -- | O | |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE 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.

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| INSPECTION TASKS DURING WELDING ¹ | | | |
|--|-------------------|-----------------|--|
| INSPECTION TASKS DURING WELDING | QUALITY ASSURANCE | QUALITY CONTROL | |
| 1. CONTROL AND HANDLING OF WELDING CONSUMABLES | O | O | |
| • PACKAGING | O | O | |
| • EXPOSURE CONTROL | O | O | |
| 2. NO WELDING OVER CRACKED TACK WELDS | O | O | |
| 3. ENVIRONMENTAL CONDITIONS | O | O | |
| • WIND SPEED WITH LIMITS | | | |
| • PRECIPITATION AND TEMPERATURE | | | |
| 4. WPS FOLLOWED | O | O | |
| • SETTINGS ON WELDING EQUIPMENT | | | |
| • TRAVEL SPEED | | | |
| • SELECTED WELDING MATERIALS | | | |
| • SHIELDING GAS TYPE/FLOW RATE | | | |
| • PREHEAT APPLIED | | | |
| • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) | | | |
| • PROPER POSITIONS (F, V, H, OH) | | | |
| 5. WELDING TECHNIQUES | O | O | |
| • INTERPASS AND FINAL CLEANING | | | |
| • EACH PASS WITHIN PROFILE LIMITATIONS | | | |
| • EACH PASS MEETS QUALITY REQUIREMENTS | | | |
| 6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS | P | P | |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| INSPECTION TASKS AFTER WELDING ¹ | | |
|--|-------------------|-----------------|
| INSPECTION TASKS DURING WELDING | QUALITY ASSURANCE | QUALITY CONTROL |
| 1. WELDS CLEANED | O | O |
| 2. SIZE, LENGTH, AND LOCATION OF WELDS | P | P |
| 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA | P | P |
| • CRACK PROHIBITION | | |
| • WELD/BASE METAL FUSION | | |
| • CRATER CROSS SECTION | | |
| • WELD PROFILE | | |
| • WELD SIZE | | |
| • UNDERCUT | | |
| • POROSITY | | |
| 4. ARC STRIKES | P | P |
| 5. K-AREA ^(a) | P | P |
| 6. WELD-ACCESS HOLES IN ROLLED HEAVY SHAPED AND BUILT-UP HEAVY SHAPES ^(b) | P | P |
| 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | P | P |
| 8. REPAIR ACTIVITIES | P | P |
| 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | P | P |
| 10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR | O | O |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE a: WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN (75 MM) OF THE WELD

NOTE 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.

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| INSPECTION TASKS PRIOR TO BOLTING ¹ | | |
|---|-------------------|-----------------|
| INSPECTION TASKS PRIOR TO BOLTING | QUALITY ASSURANCE | QUALITY CONTROL |
| 1. MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | P | O |
| 2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | O | O |
| 3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | O | O |
| 4. CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAILS | O | O |
| 5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | O | P |
| 6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLES AND METHODS USED | O | P |
| 7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS | O | O |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| INSPECTION TASKS DURING BOLTING ¹ | | |
|--|-------------------|-----------------|
| INSPECTION TASKS DURING TO BOLTING | QUALITY ASSURANCE | QUALITY CONTROL |
| 1. FASTENER ASSEMBLES PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED | O | O |
| 2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION | O | O |
| 3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | O | O |
| 4. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | O | O |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| INSPECTION TASKS AFTER BOLTING ¹ | | |
|---|-------------------|-----------------|
| INSPECTION TASKS AFTER TO BOLTING | QUALITY ASSURANCE | QUALITY CONTROL |
| 1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | P | P |

NOTE: "P" DENOTES PERFORM; "O" DENOTES OBSERVE

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| REQUIRED SPECIAL INSPECTION AND TESTS FOR WIND RESISTANCE ON WIND-RESISTING COMPONENTS ¹ | | |
|---|-------------------------------|-----------------------------|
| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
| 1. FASTENING OF ROOF COVERING, ROOF DECK, ROOF FRAMING CONNECTIONS, EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGM AND FRAMING | - | X |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS

| REQUIRED SPECIAL INSPECTION AND TESTS OF WOOD CONSTRUCTION ¹ | | |
|--|-------------------------------|-----------------------------|
| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
| 1. SPECIAL INSPECTION OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC 2018. | - | X |
| 2. OWNER WILL ENGAGE A QUALIFIED SPECIAL INSPECTOR TO VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE. | - | X |

NOTE 1: ALL SPECIAL INSPECTION IN ACCORDANCE WITH CURRENT IBC AND ACI STANDARDS



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WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **ND**

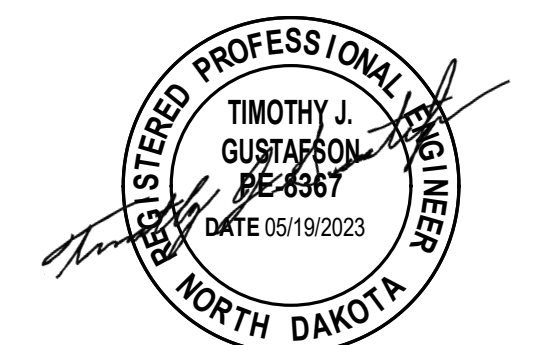
ISSUE DATES

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| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: **20224620**
DRAWN BY: **WLM**
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DRAWING TITLE
SPECIAL INSPECTION TABLES

S003

FOUNDATION WALL SCHEDULE

| MARK | WIDTH | MATERIAL | REINFORCING | | REMARKS |
|------|-------|----------|---------------------------|--------------|--|
| | | | VERTICAL | HORIZONTAL | |
| W-1 | 8" | CONC | #5 @ 32" O/C | #4 @ 12" O/C | |
| W-2 | 1'-0" | CONC | #5 @ 24" O/C (2 CURTAINS) | #4 @ 12" O/C | 4" BRICK LEDGE @ 100'-0" @ PIT AREA |
| W-3 | 8" | CONC | #5 @ 24" O/C | #4 @ 12" O/C | |
| W-4 | 8" | CONC | #5 @ 24" O/C MAX | #4 @ 12" O/C | SPACE REINF TO AVOID PIPE SLEEVES. IN WALL CONC BEAM @ TOP OF WALL |

NOTES:

- VERTICAL BARS TO EXTEND 3'-0" ABOVE TOP OF WALL @ CMU WALL LOCATIONS
- ALIGN VERTICAL FOUNDATION WALL REINFORCING WITH CMU WALL VERTICAL REINFORCING ABOVE. EXTEND VERTICAL REINFORCING 2'-6" MINIMUM ABOVE TOP OF WALL AT CMU WALL LOCATIONS

CONTINUOUS FOOTING SCHEDULE

| MARK | FOOTING SIZE | | REINFORCING | | REMARKS |
|------|--------------|-----------|--------------|--------------|---------|
| | WIDTH | THICKNESS | LONGITUDINAL | TRANSVERSE | |
| WF-1 | 1'-4" | 1'-0" | (2) #5 | | |
| WF-2 | 2'-0" | 1'-0" | (3) #5 | | |
| WF-3 | 3'-0" | 1'-0" | (4) #5 | #5 @ 32" O/C | |

TOP OF FOOTING ELEVATION = 95'-0" U.O.N.

CONCRETE PIER SCHEDULE

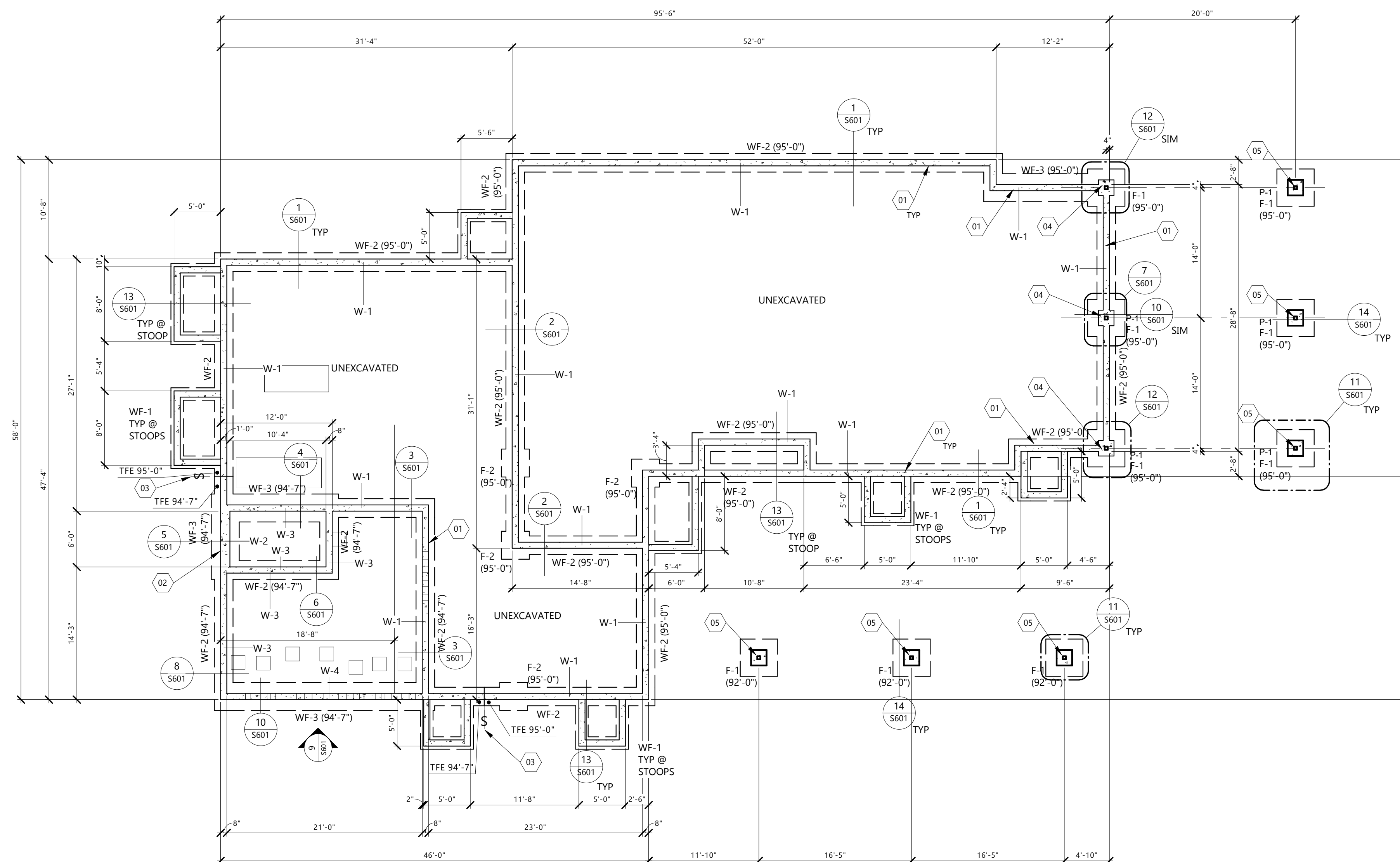
| MARK | PIER SIZE | REINFORCING | | REMARKS |
|------|-----------|-------------|--|------------|
| | | VERTICAL | TIE SIZE/SPACING | |
| P-1 | 20" x 20" | (8) -#5 | #3 TIES 3" O/C TOP 12", 12" O/C THEREAFTER | TPE 99'-4" |

SPREAD FOOTING SCHEDULE

| MARK | FOOTING | | REINFORCING | REMARKS |
|------|-------------|-----------|--------------------------------------|---------|
| | SIZE | THICKNESS | | |
| F-1 | 4'-0"x4'-0" | 12" | #5 @ 12" O/C EACH WAY TOP AND BOTTOM | |
| F-2 | 3'-0"x3'-0" | 12" | #5 @ 12" O/C EACH WAY | |

KEYNOTE LEGEND:

- ◻ ◻ ◻ INDICATES KEYNOTE ON PLAN
- 01 8" CONCRETE FOUNDATION WALL
- 02 12" CONCRETE FOUNDATION WALL W/ 4" BRICK LEDGE
- 03 \$ INDICATES STEP IN FOOTING. SEE DETAIL 16/S601
- 04 HSS4x4x3/8 STEEL COLUMN ON CONCRETE PIER. SEE 17/S601 FOR BASEPLATE
- 05 HSS5x5x1/4" STEEL COLUMN ON CONCRETE PIER. SEE 17/S601 FOR BASEPLATE



1 FOUNDATION PLAN
S200 1/8" = 1'-0"



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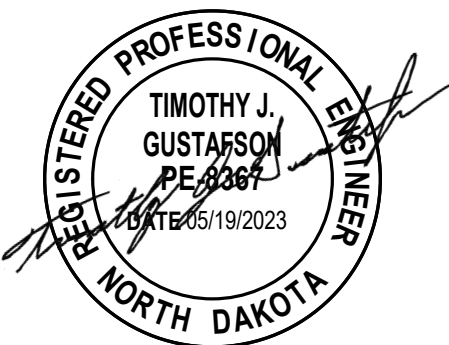
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FOUNDATION PLAN

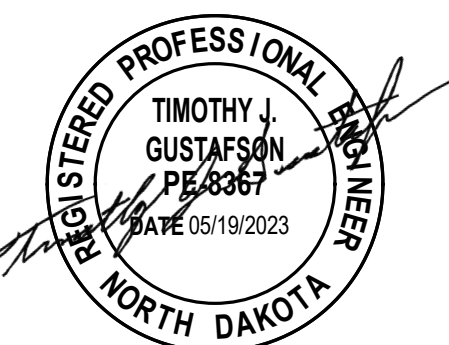
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DRAWING TITLE
FIRST FLOOR SLAB
PLAN

S201

KEYNOTE LEGEND:

| | |
|-------|---|
| ◊ ◊ ◊ | INDICATES KEYNOTE ON PLAN |
| 01 | 4" THICK CONCRETE SLAB-ON-GRADE W/ #3 @ 18" O/C EACH WAY. |
| 02 | 5" THICK CONCRETE SLAB-ON-GRADE W/ #4 @ 16" O/C EACH WAY. |
| 03 | CONCRETE EQUIPMENT PAD. COORDINATE THICKNESS AND DIMENSIONS W/ MECHANICAL CONTRACTOR. SEE DETAIL 15/S601 (TYPICAL). |
| 04 | THICKENED SLAB 4'-2" x 9'-0" x 1'-0" THICK W/ #5 @ 12" O/C EACH WAY @ BOTTOM. COORDINATE LOCATION W/ MECHANICAL CONTRACTOR. |
| 05 | CONTROL JOINT. |
| 06 | FLOOR DRAIN. COORDINATE LOCATION W/ MECH. |
| 07 | STEEL COLUMN. |
| 08 | HSS4x4x1/4" COLUMN |
| 09 | REMOVABLE GUARD RAIL |

ARROWS AND DASHED LINES INDICATE SLOPE TO DRAIN

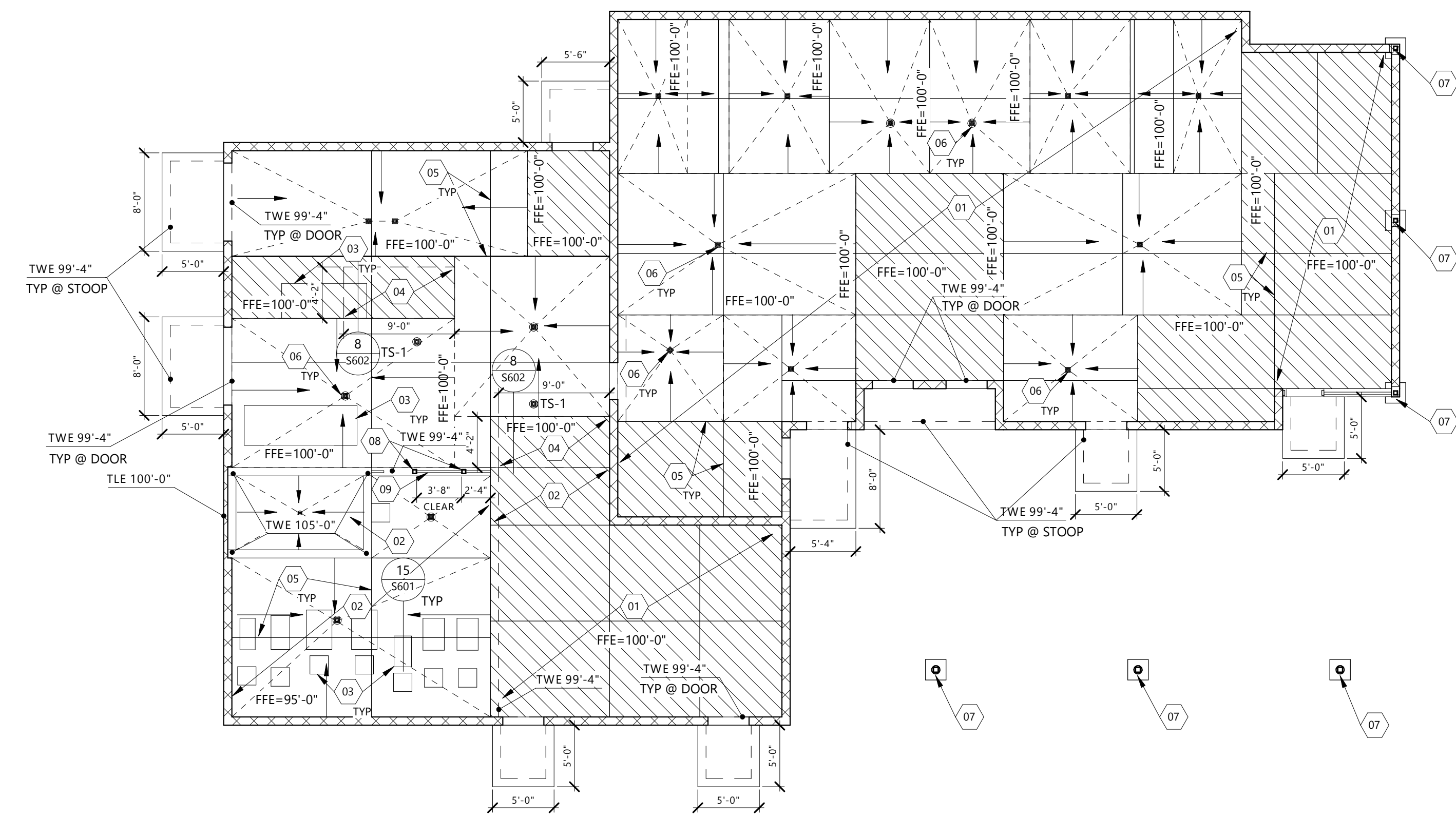
SOLID LINES INDICATE CONTROL JOINTS

HATCHED AREAS DENOTE FLAT SLAB ON GRADE @ 100'-0"

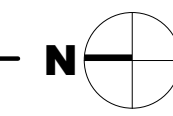
TOP OF WALL ELEVATION 100'-0" U.O.N.

TOP OF WALL ELEVATION @ DOOR 99'-4" U.O.N.

TOP OF WALL ELEVATION 99'-4" @ STOOP



1 FIRST FLOOR SLAB PLAN
S201 1/8" = 1'-0"



LINTEL SCHEDULE

| MARK | SIZE | MATERIAL | BEARING | REMARKS |
|------|---------|----------|------------------------------------|---------------|
| L-1 | 8" x 8" | CMU | 8" MINIMUM EACH END | DETAIL 9/S701 |
| L-2 | W8x10 | STEEL | 6 1/2" x 6 1/2" x 3/8" STEEL PLATE | DETAIL 8/S701 |

KEYNOTE LEGEND:

- ◻ << INDICATES KEYNOTE ON PLAN
- 01 PRE-ENGINEERED WOODEN ROOF TRUSSES @ 24" O/C. EXCEPT WHERE NOTED, (ALL METAL TRUSS CONNECTOR PLATES TO BE STAINLESS STEEL).
- 02 15/32" APA RATED ROOF SHEATHING (SPAN RATING 24/16). APPLY PANELS W/ STRONG AXIS PERPENDICULAR TO ROOF FRAMING. SUPPORT PANEL EDGES @ MID SPAN BETWEEN TRUSSES W/ SIMPSON PSCA 15/32" SHEATHING CLIPS. FASTEN TO ROOF FRAMING W/ 8d NAILS @ 6" O/C AT PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.
- 03 SNOW DRIFT LOAD. THIS LOAD IS IN ADDITION TO BASE SNOW LOAD.
- 04 (2) 2x8 SYP NO. 2 (TREATED) LEDGER @ BOTTOM CHORD.
(1) 2x6 SYP NO. 2 (TREATED) LEDGER @ TOP CHORD.
- 05 (1) 2x4 SYP NO. 2 (TREATED) LEDGER @ BOTTOM CHORD.
(2) 2x6 SYP NO. 2 (TREATED) LEDGER @ TOP CHORD.
- 06 TRUSS BOTTOM CHORD ELEV = 112'-0". TRUSS BEARING ELEV @ LEDGER = 112'-7 1/4"
- 07 TRUSS BOTTOM CHORD ELEV = 110'-0". TRUSS BEARING ELEV @ LEDGER = 110'-7 1/4"
- 08 HSS 6x6x5/8" COLUMN
- 09 2x6 BLOCKING @ 24" O/C
- 10 HSS4x4x3/8" COLUMN
- 11 HOIST BEAM AND COLUMNS BELOW, SEE SHEET S602



Architecture Engineering
Interior Design Industrial
TELE 701.461.7222 FAX 701.461.7223
112 No. Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CONSULTANTS

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WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **ND**

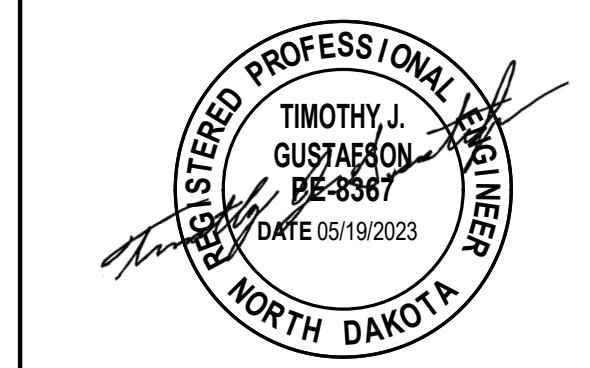
ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |
| | | |

PROJECT NO: **20224620**
DRAWN BY: **WLM**
CHECKED BY: **TJG**

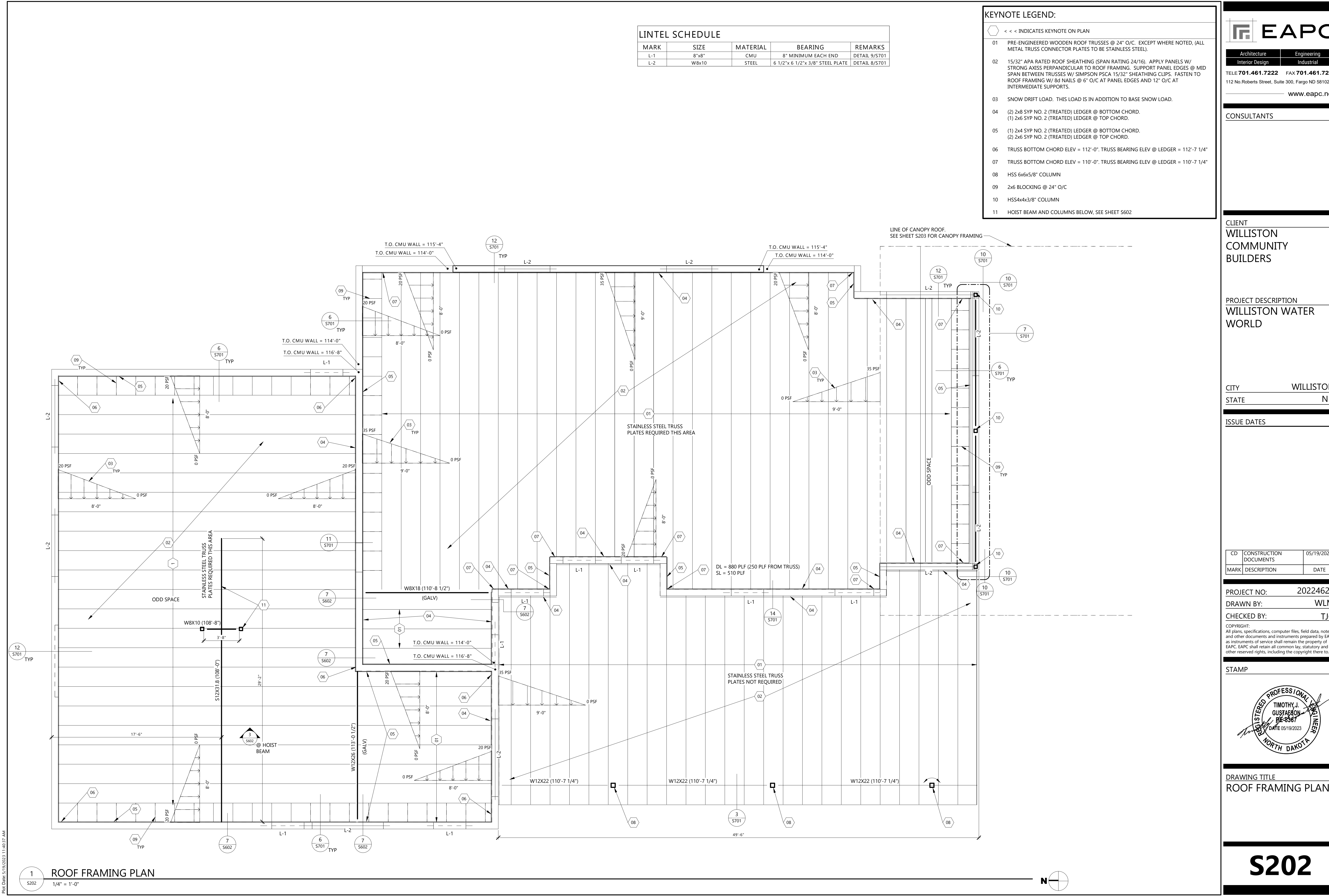
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DRAWING TITLE
ROOF FRAMING PLAN

S202



1 ROOF FRAMING PLAN
S202
1/4" = 1'-0"

Plot Date: 5/19/2023 11:46:37 AM

KEYNOTE LEGEND:

- <<< INDICATES KEYNOTE ON PLAN
- 01 PRE-ENGINEERED WOODEN ROOF TRUSSES @ 24" O/C. EXCEPT WHERE NOTED, (ALL METAL TRUSS CONNECTOR PLATES TO BE STAINLESS STEEL).
- 02 15/32" APA RATED ROOF SHEATHING (SPAN RATING 24/16). APPLY PANELS W/ STRONG AXISS PERPANDICULAR TO ROOF FRAMING. SUPPORT PANEL EDGES @ MID SPAN BETWEEN TRUSSES W/ SIMPSON PSCA 15/32" SHEATHING CLIPS. FASTEN TO ROOF FRAMING W/ 8d NAILS @ 6" O/C AT PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.



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WILLISTON WATER
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CITY WILLISTON
STATE ND

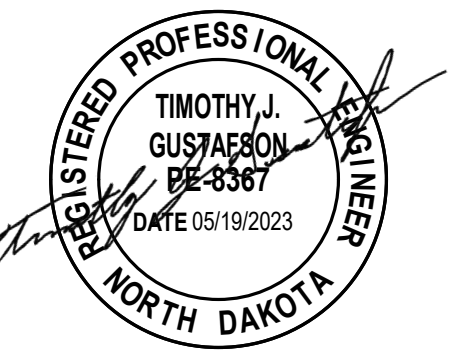
ISSUE DATES

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|------|------------------------|------------|
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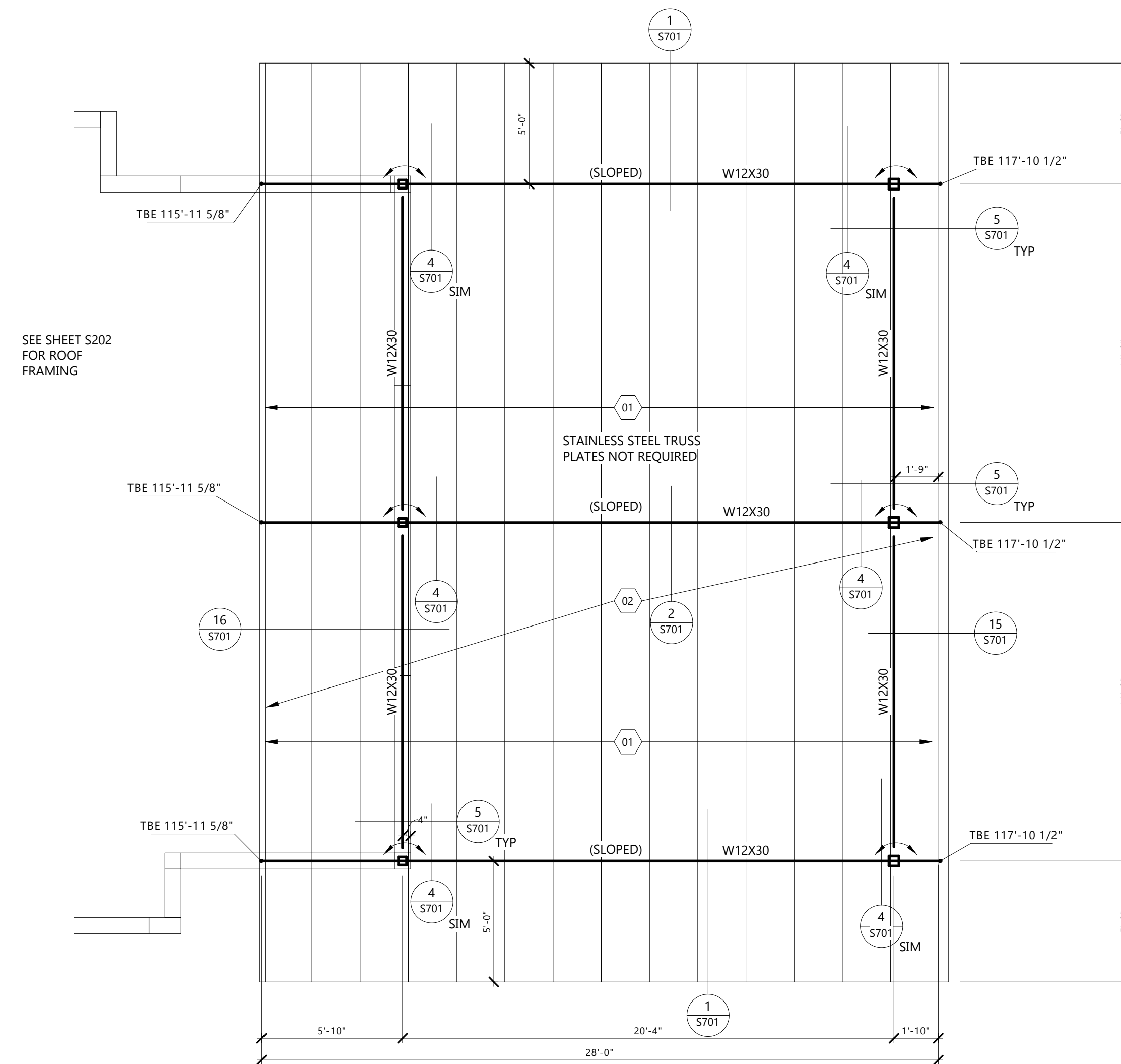
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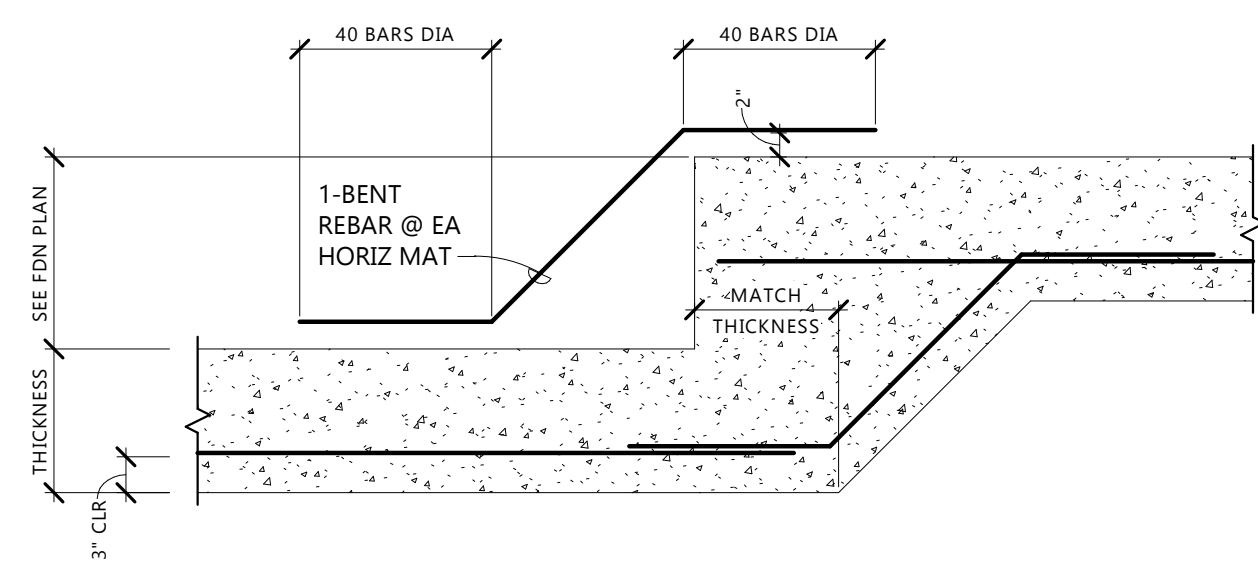


DRAWING TITLE
ROOF FRAMING PLAN
- CANOPY

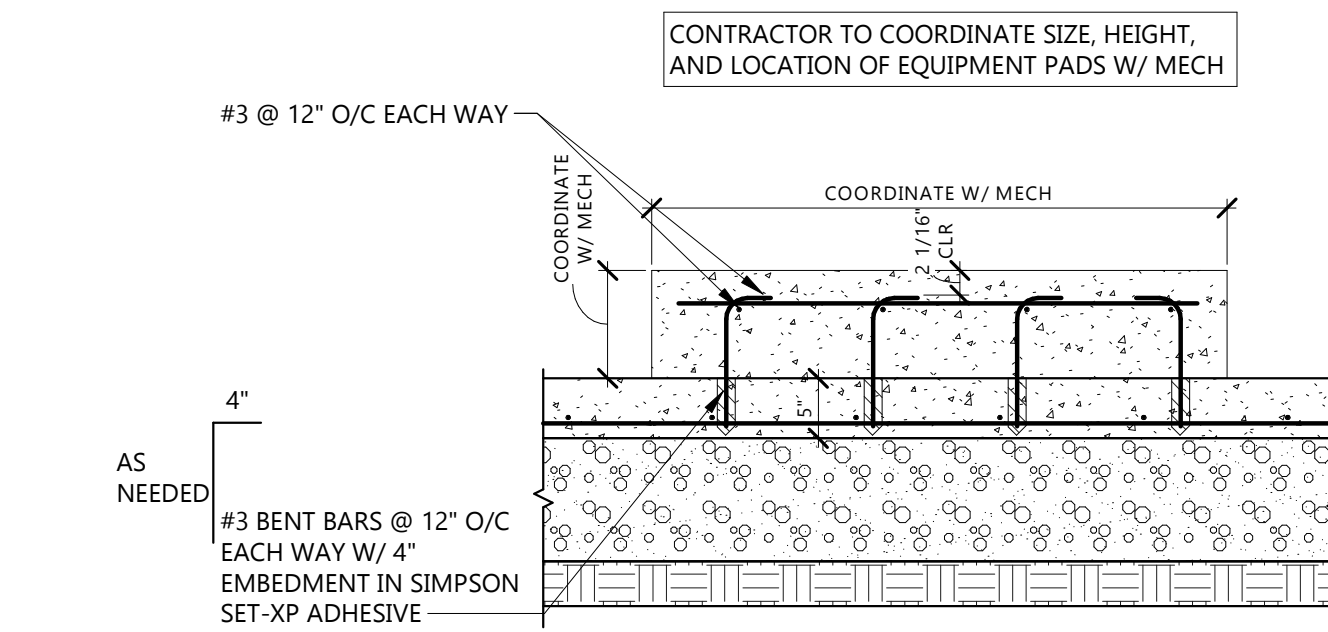
S203



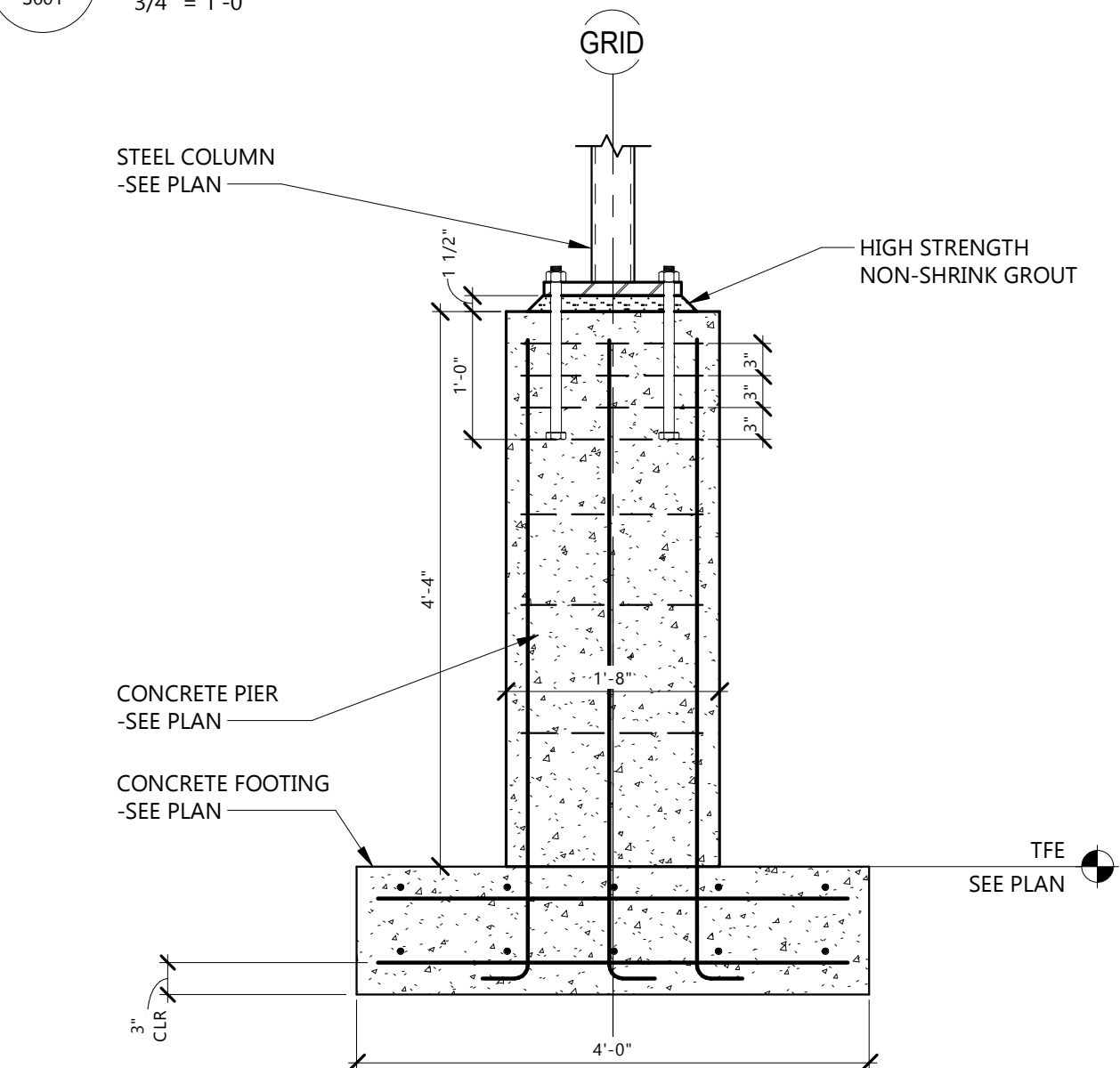
1 CANOPY FRAMING - HIGH ROOF
S203 1/4" = 1'-0"



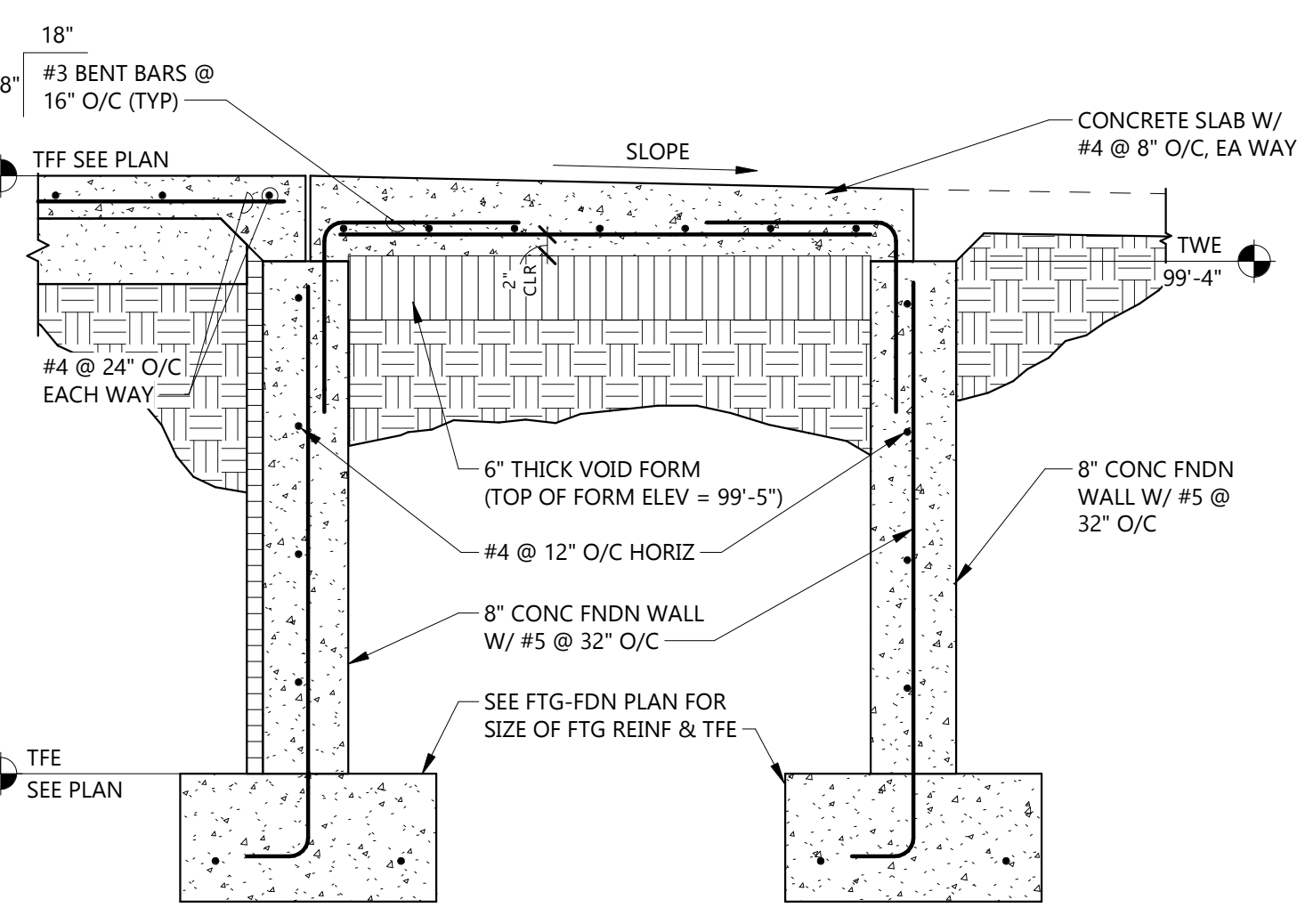
16 STEP FOOTING DETAIL
S601 3/4" = 1'-0"



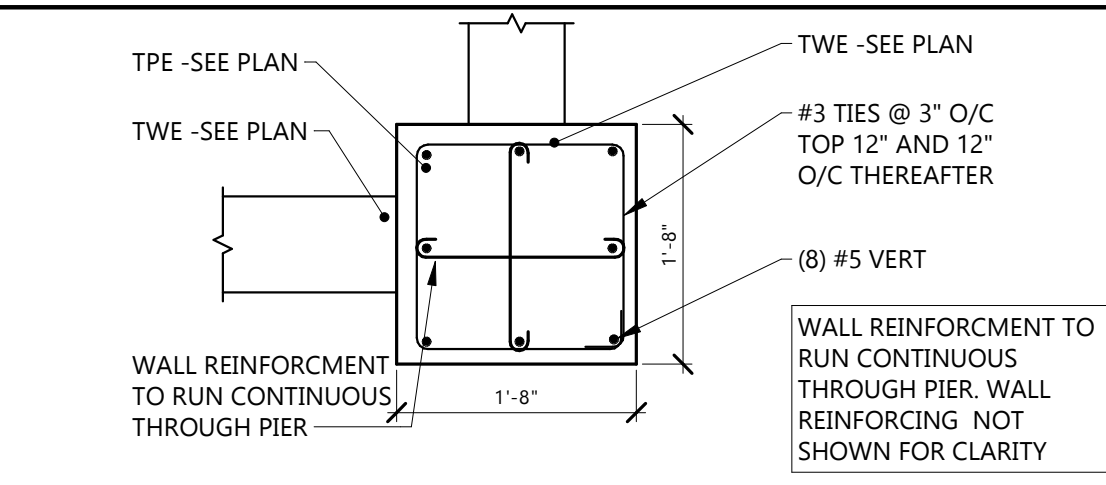
15 TYPICAL EQUIPMENT PAD DETAILS
S601 3/4" = 1'-0"



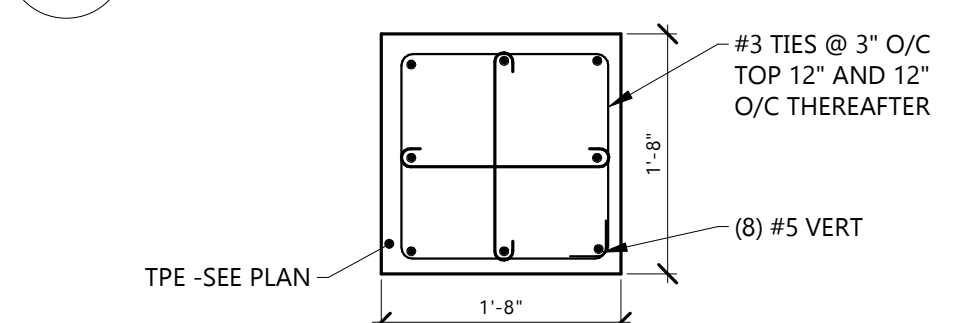
14 PIER FOUNDATION
S601 3/4" = 1'-0"



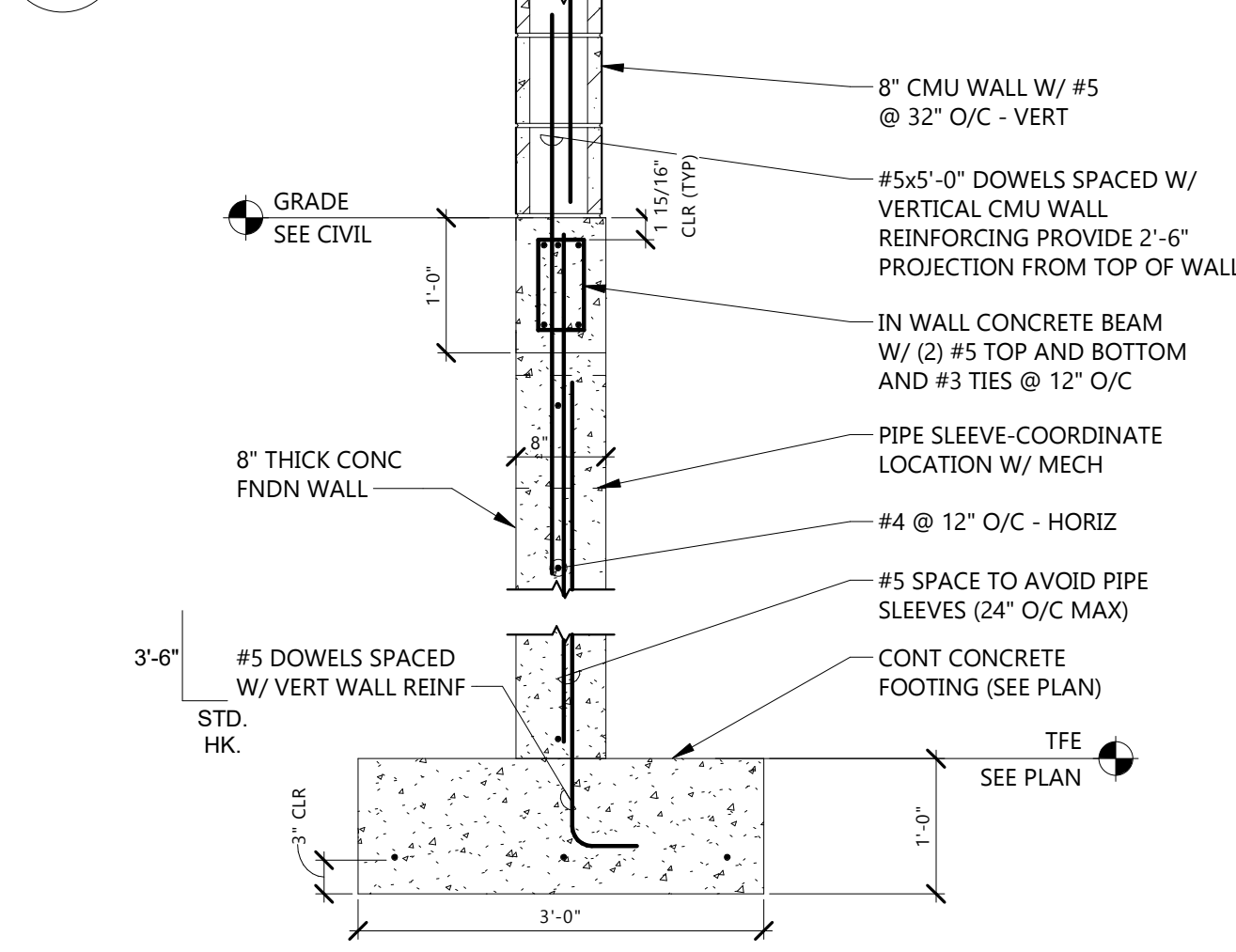
13 TYPICAL STOP DETAIL
S601 3/4" = 1'-0"



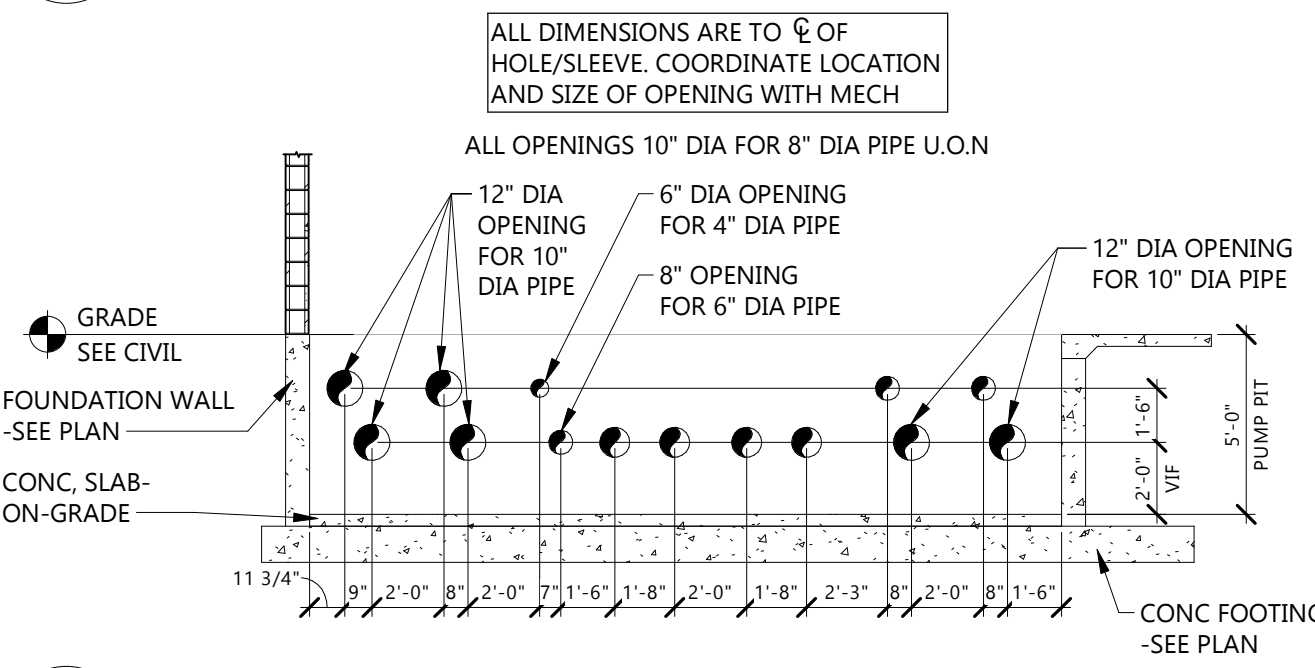
12 CORNER PIER DETAIL
S601 3/4" = 1'-0"



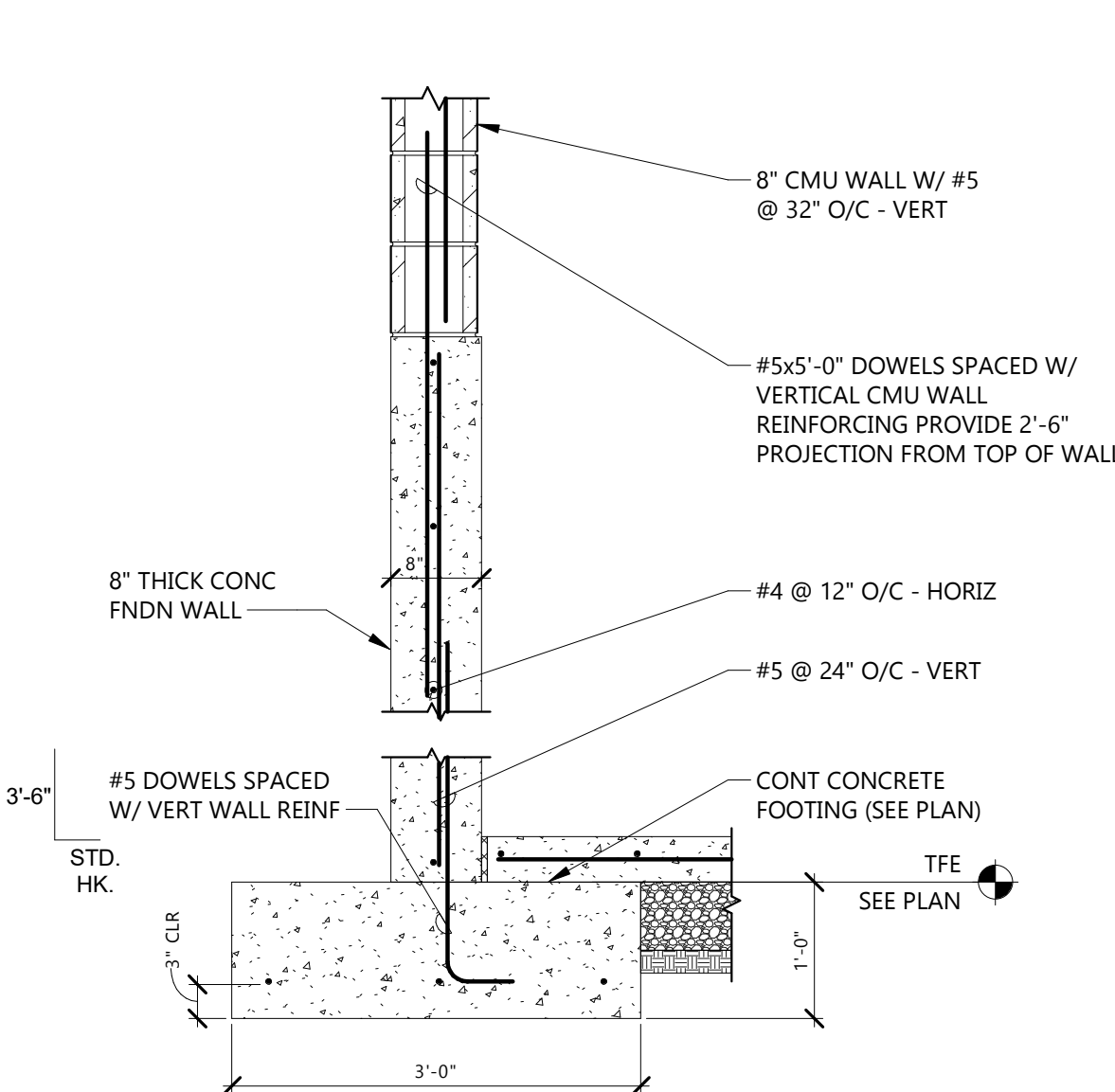
11 ISOLATED PIER DETAIL
S601 3/4" = 1'-0"



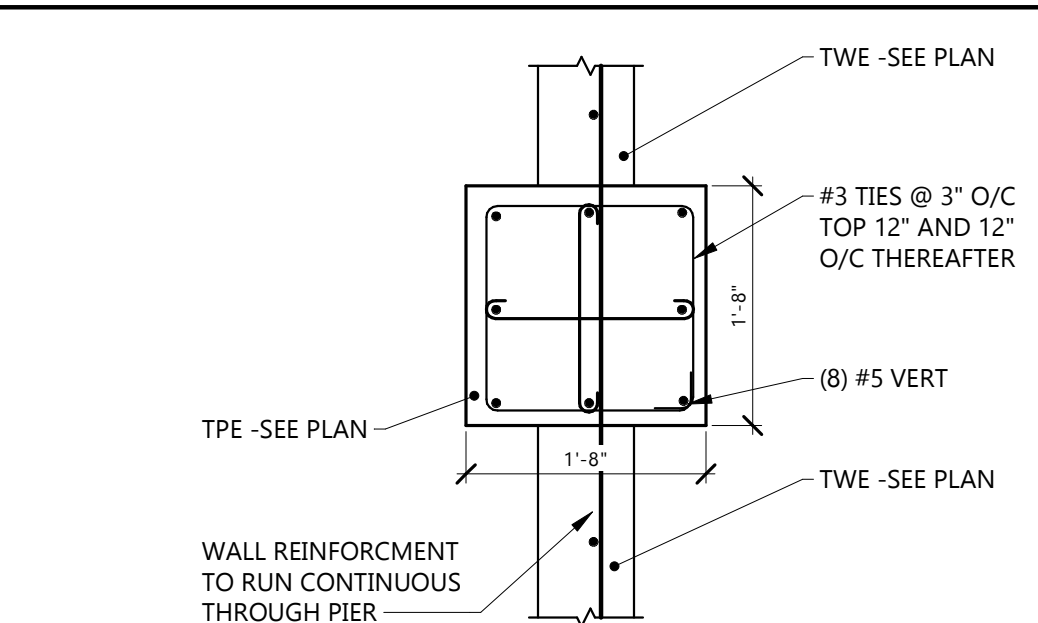
10 EXTERIOR PIT FOUNDATION WALL
S601 3/4" = 1'-0"



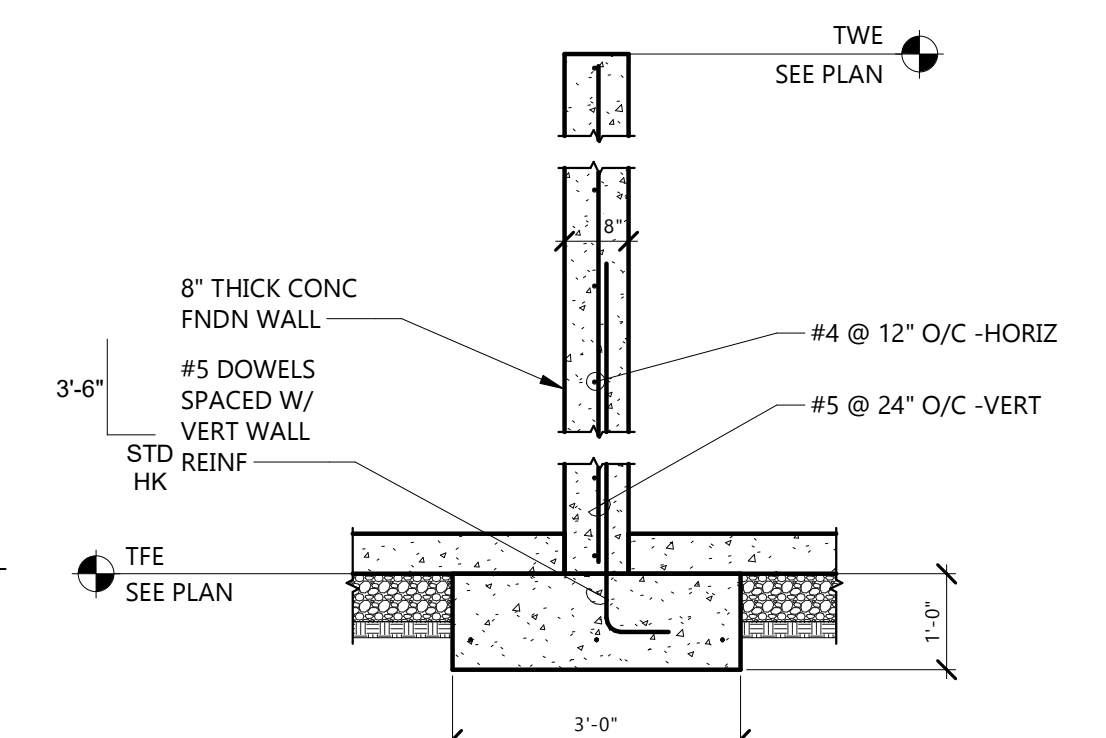
9 PIT WALL ELEVATIONS
S601 3/16" = 1'-0"



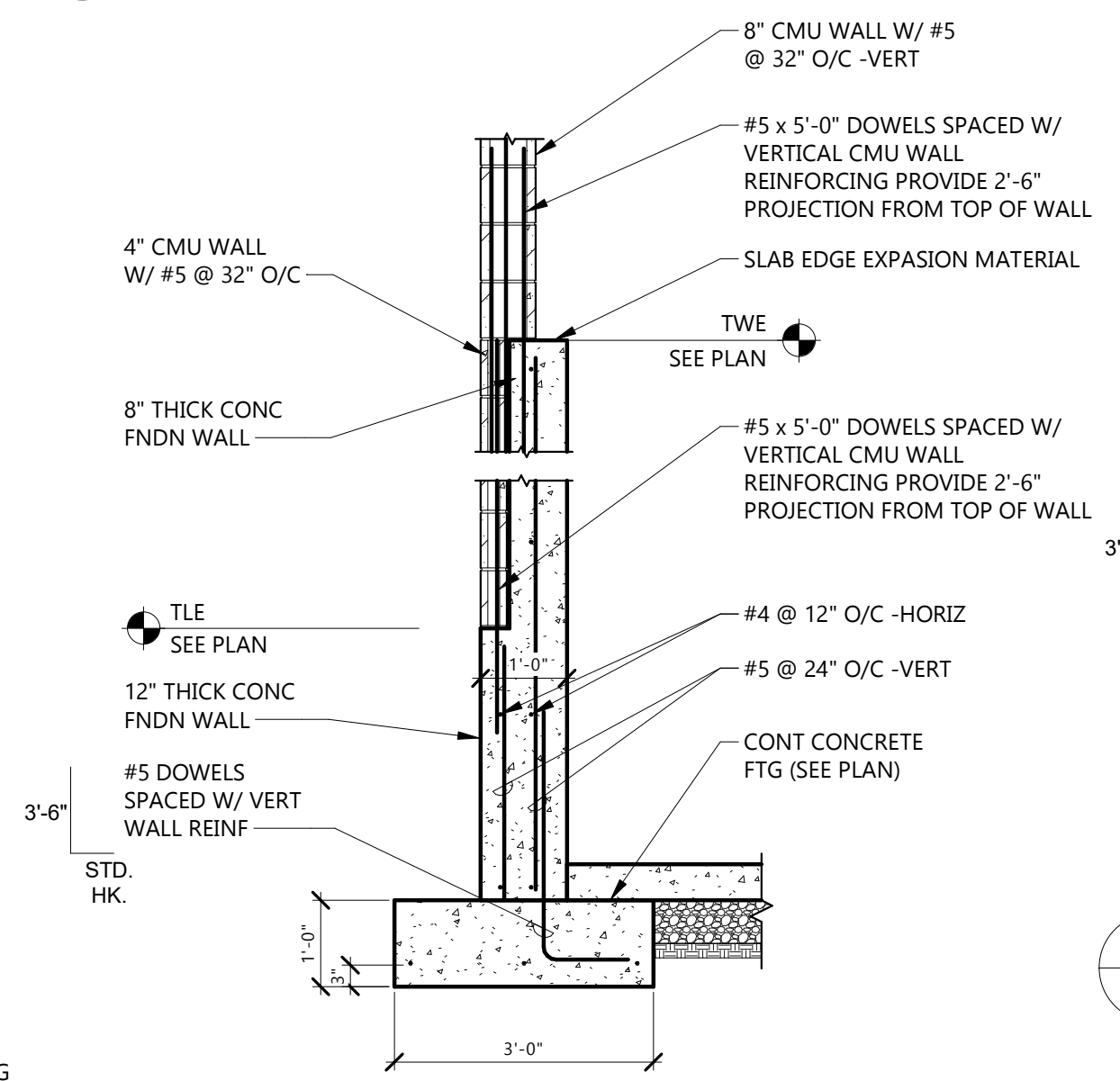
8 EXTERIOR PIT FOUNDATION WALL
S601 3/4" = 1'-0"



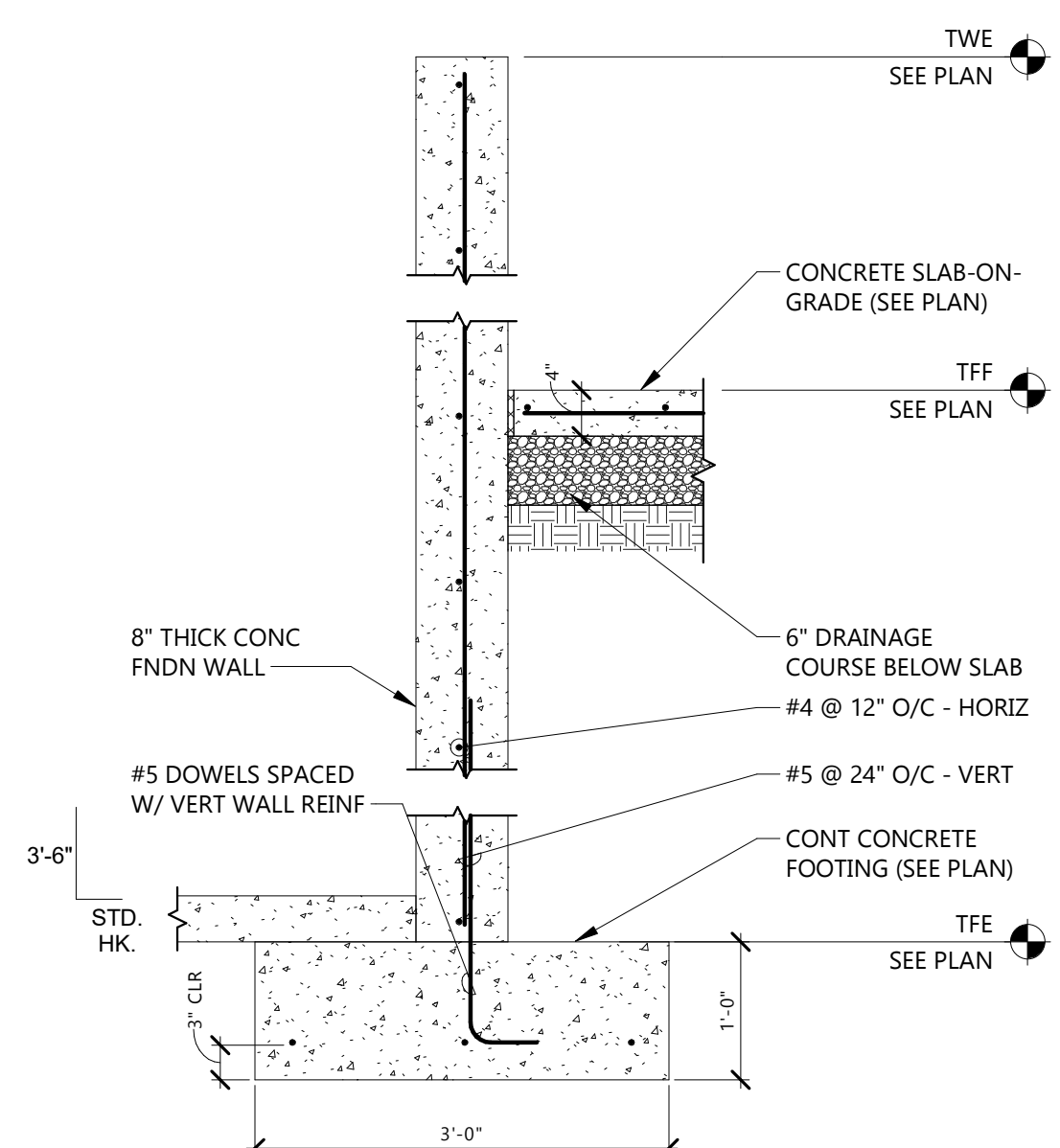
7 IN-WALL PIER DETAIL
S601 3/4" = 1'-0"



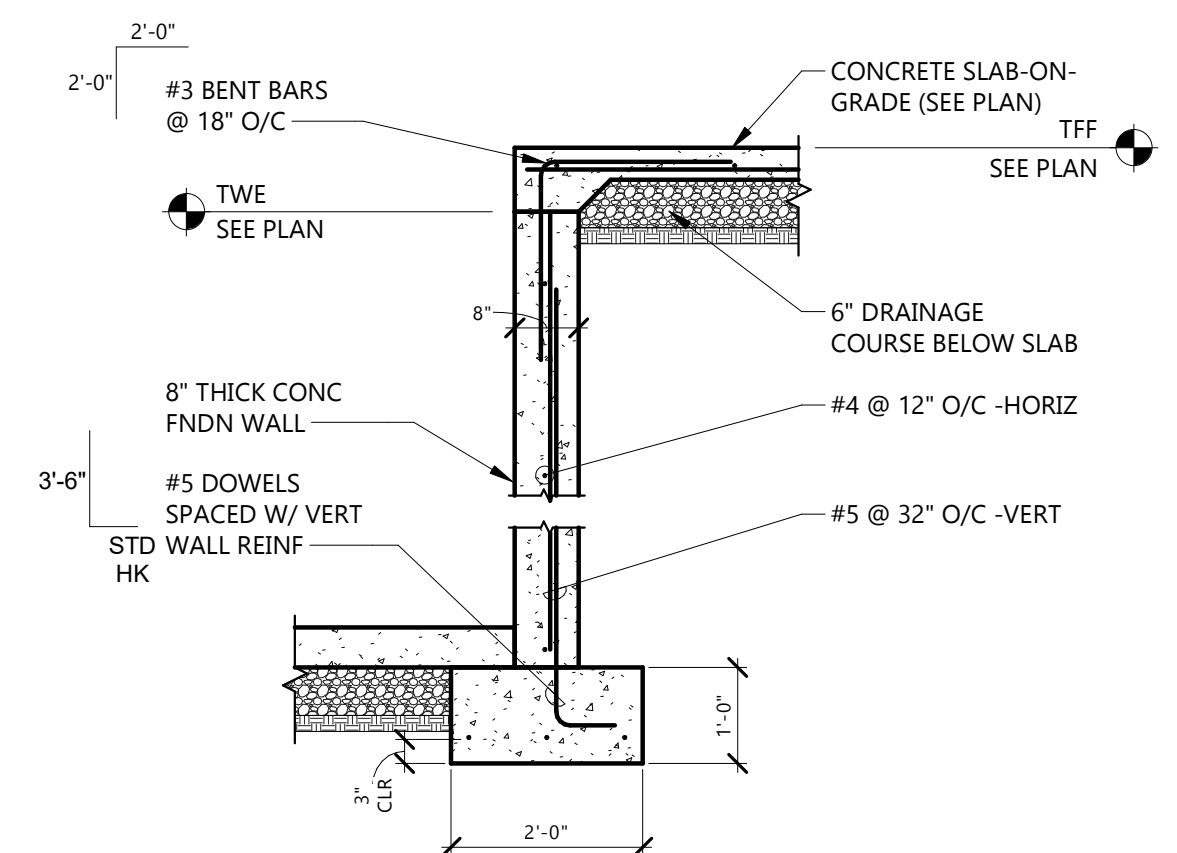
6 INTERIOR PIT FOUNDATION WALL
S601 1/2" = 1'-0"



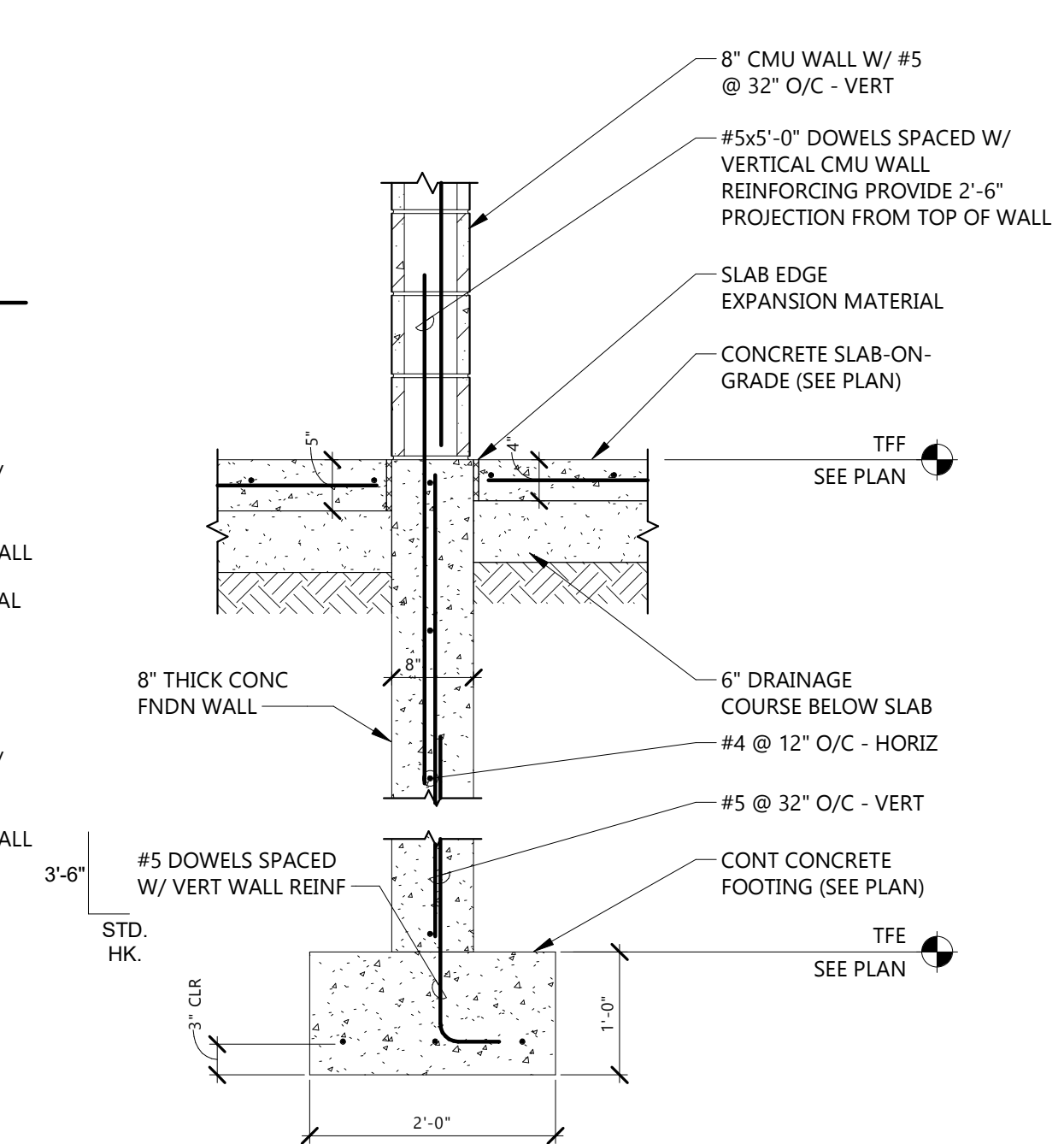
5 PIT FOUNDATION WALL @ LEDGE
S601 1/2" = 1'-0"



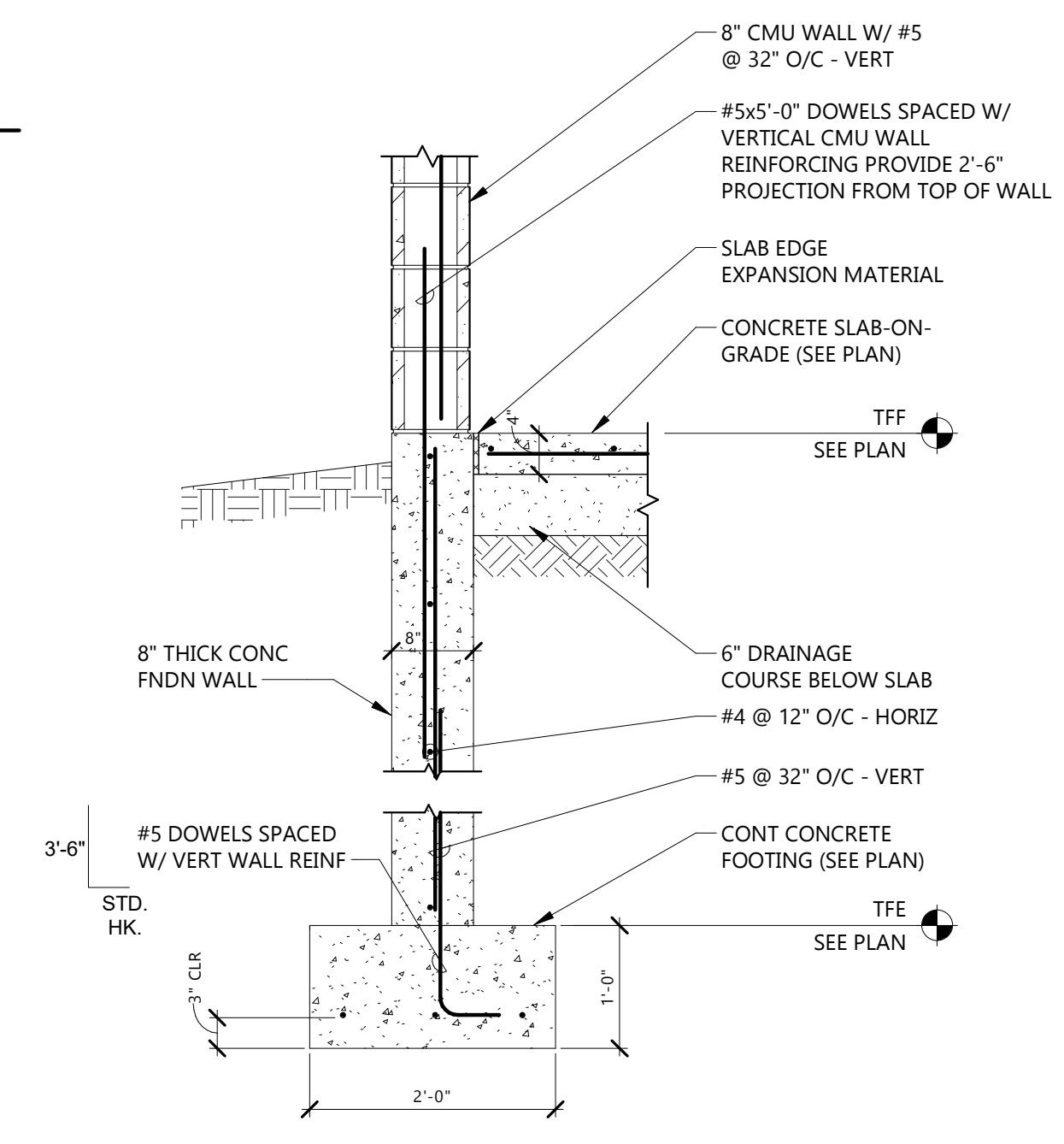
4 PIT FOUNDATION WALL
S601 3/4" = 1'-0"



3 PIT FOUNDATION WALL
S601 1/2" = 1'-0"



2 INTERIOR FOUNDATION WALL
S601 3/4" = 1'-0"



1 TYPICAL FOUNDATION WALL
S601 3/4" = 1'-0"

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17 TYPICAL BASE PLATE
S601 3/4" = 1'-0"

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DRAWING TITLE
FOUNDATION DETAILS

S601

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WILLISTON WATER WORLD

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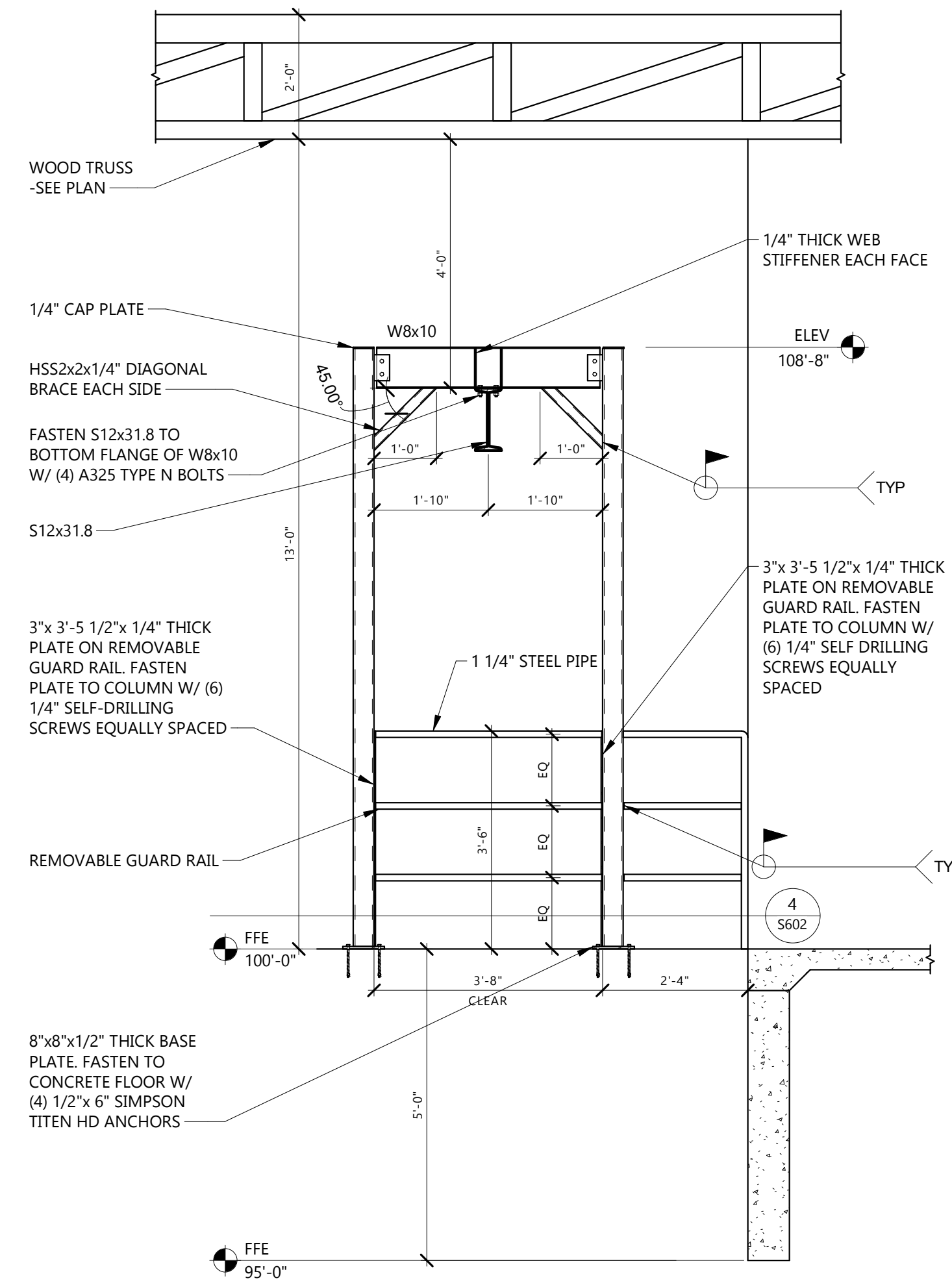
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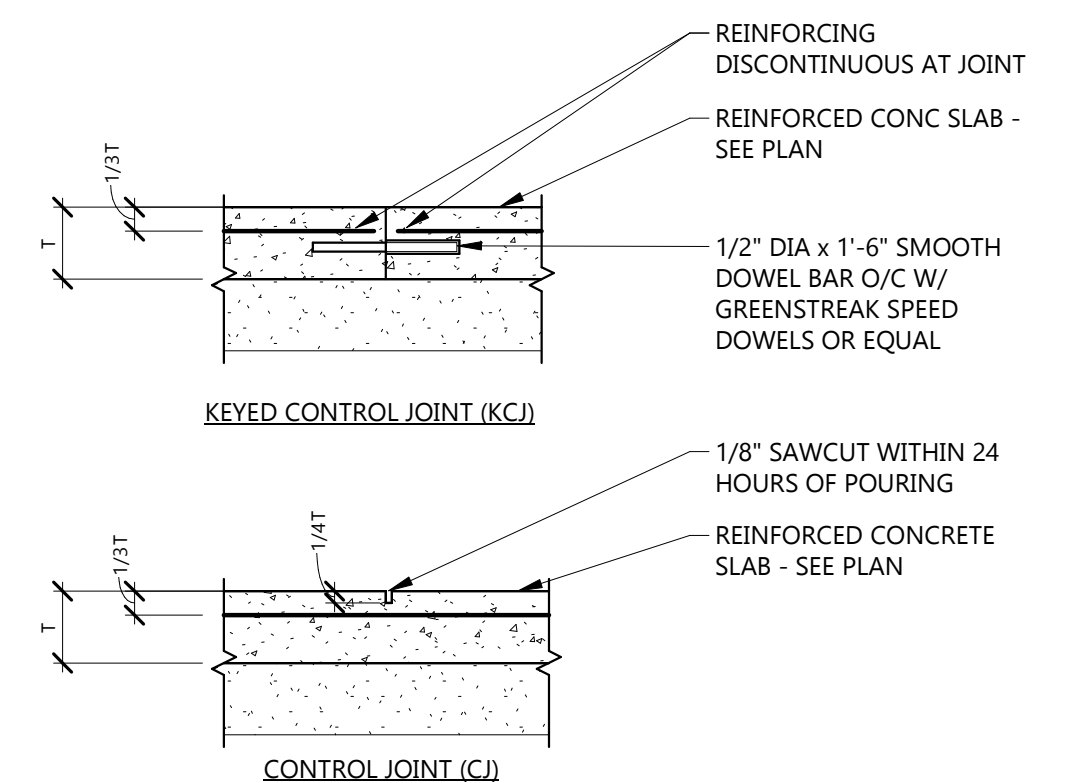


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FOUNDATION DETAIL

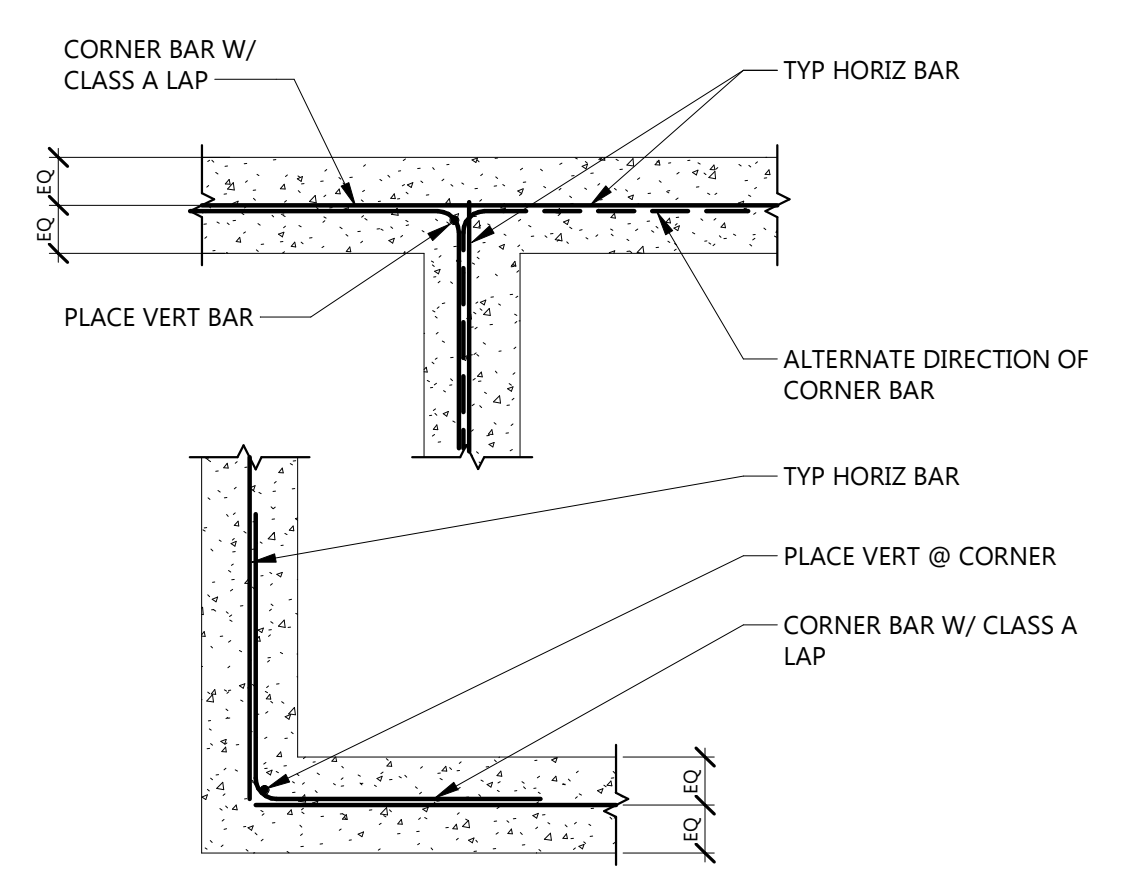
S602



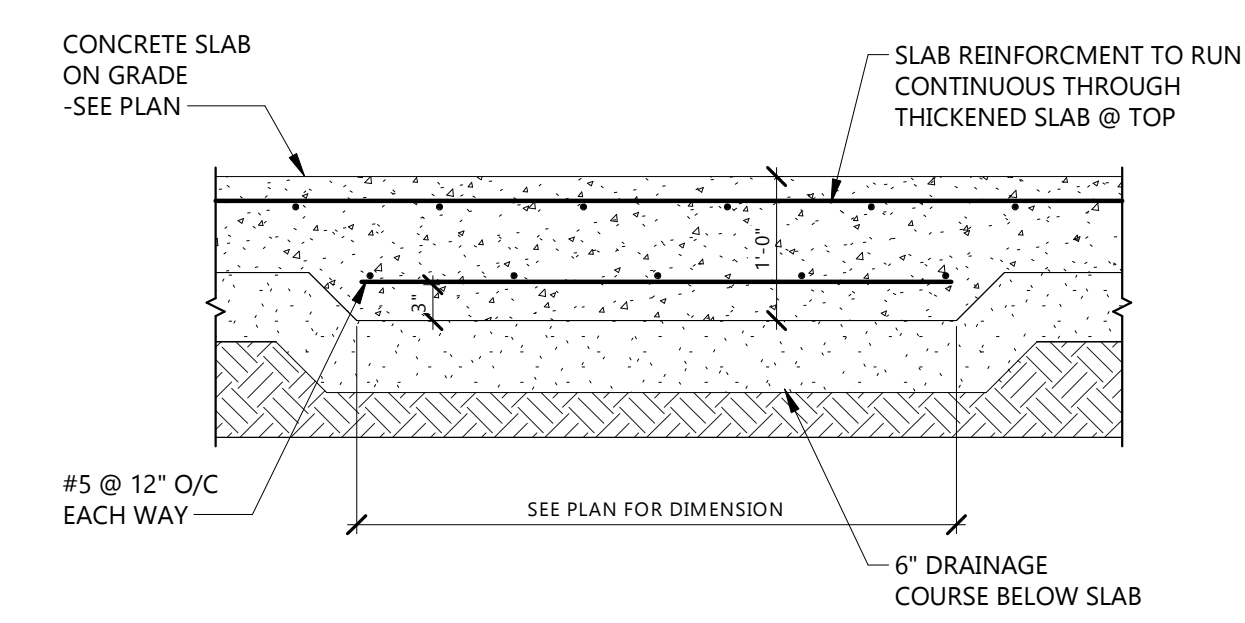
3 LIFT BEAM SUPPORT ELEVATION
S602 1/2" = 1'-0"



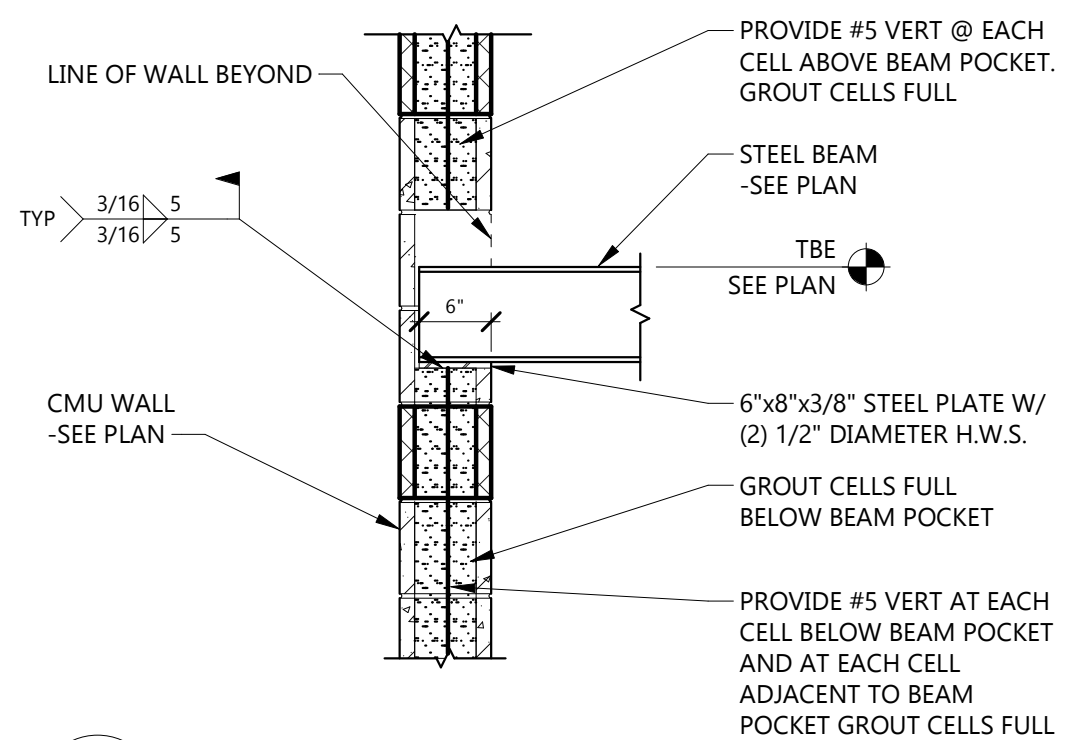
2 CONTROL JOINT DETAIL
S602 3/4" = 1'-0"



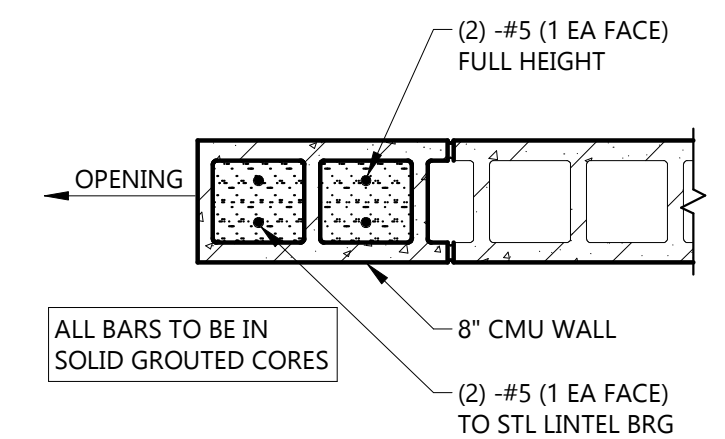
1 FOUNDATION WALL CORNER DETAILS
S602 3/4" = 1'-0"



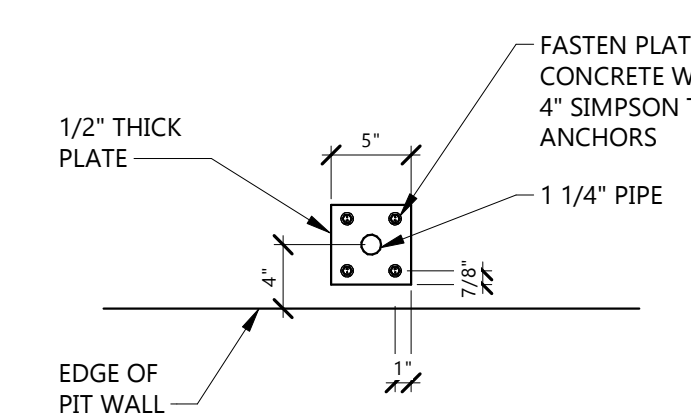
8 THICKENED SLAB @ INT. CMU WALL
S602 3/4" = 1'-0"



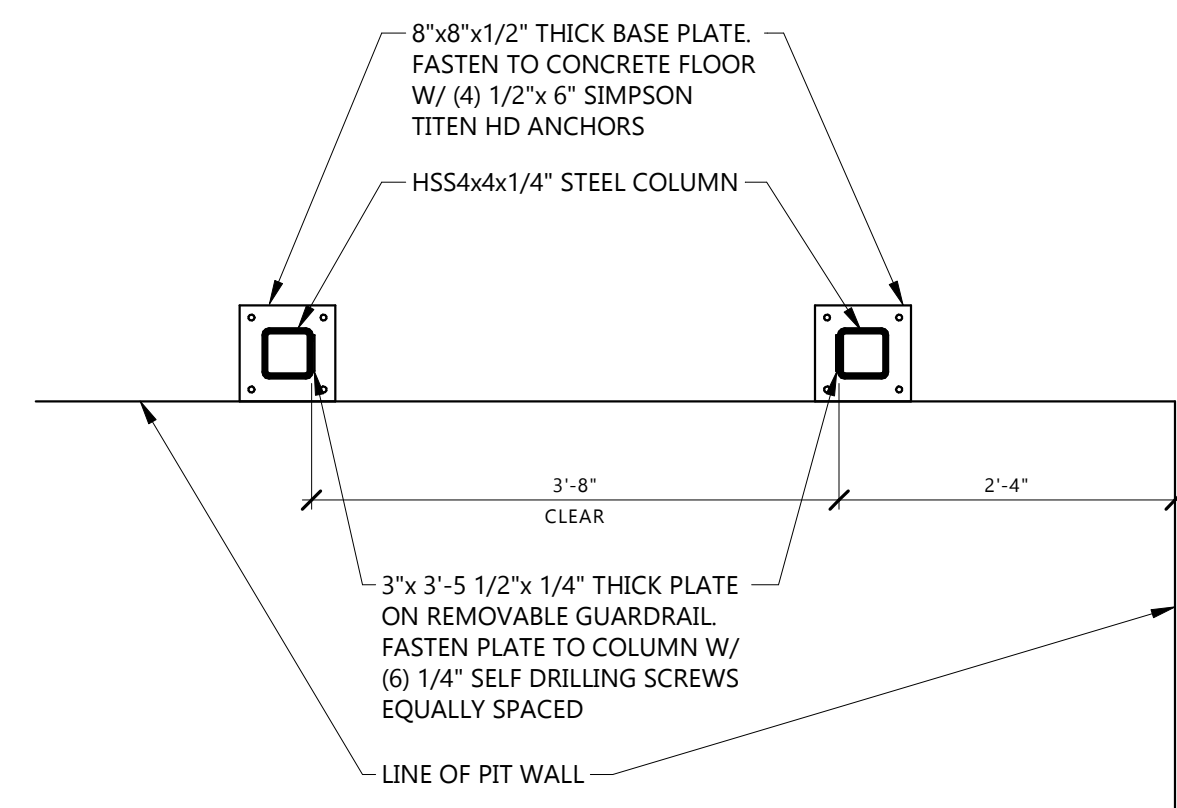
7 BEAM BEARING @ CMU
S602 3/4" = 1'-0"



6 TYPICAL JAMB DETAIL
S602 1" = 1'-0"



5 GUARD RAIL POST CONNECTION DETAIL
S602 1" = 1'-0"



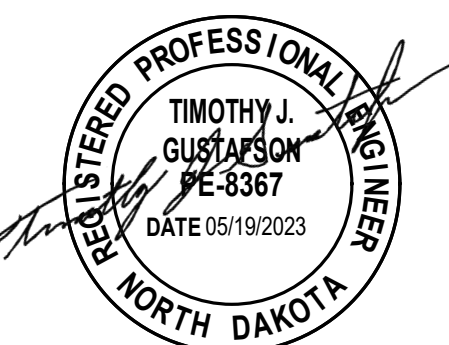
4 LIFT BEAM SUPPORT PLAN
S602 3/4" = 1'-0"

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |

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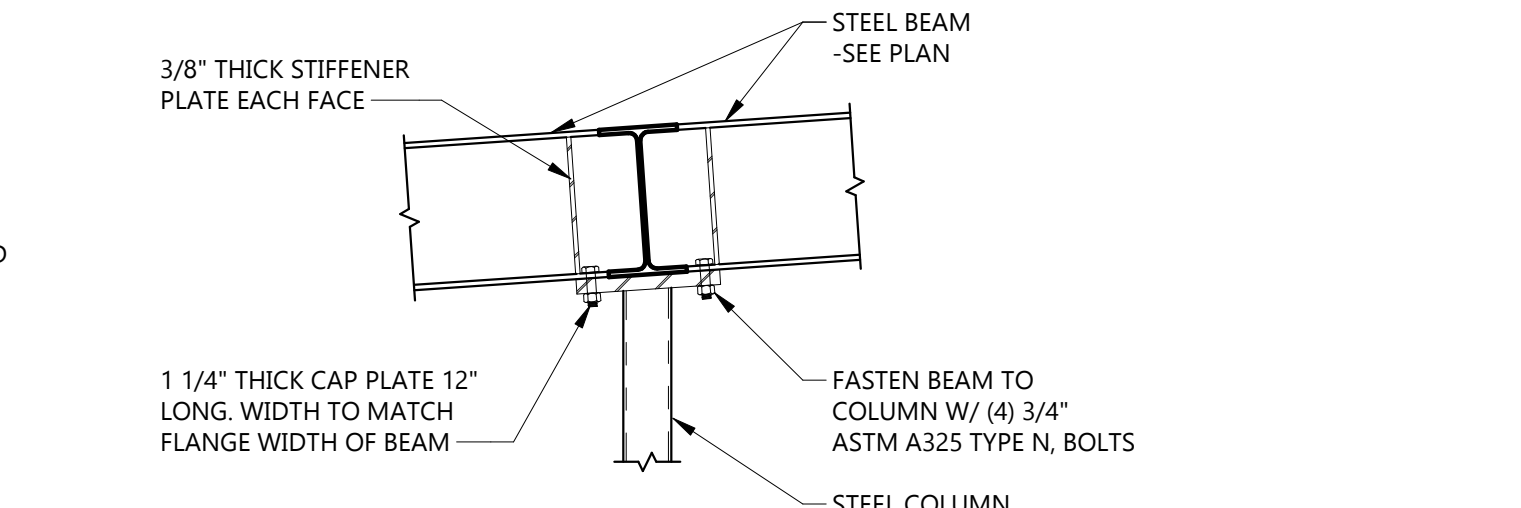
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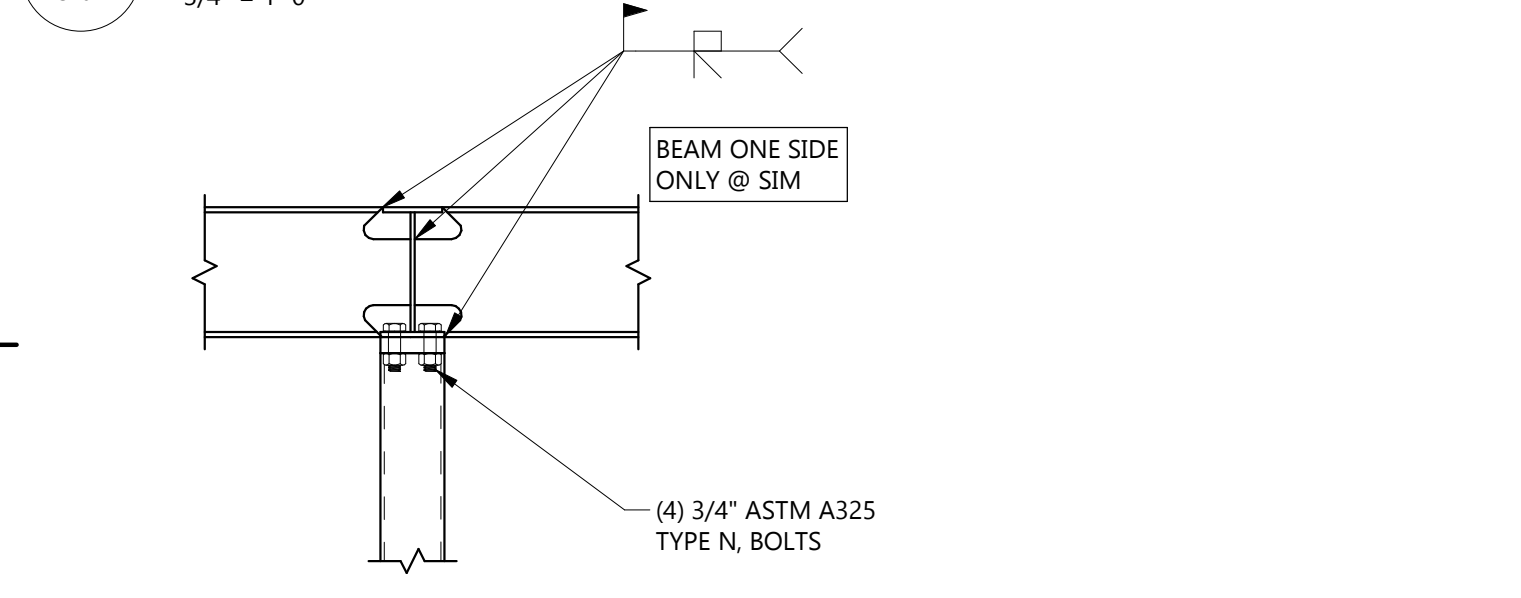


DRAWING TITLE
FRAMING DETAILS

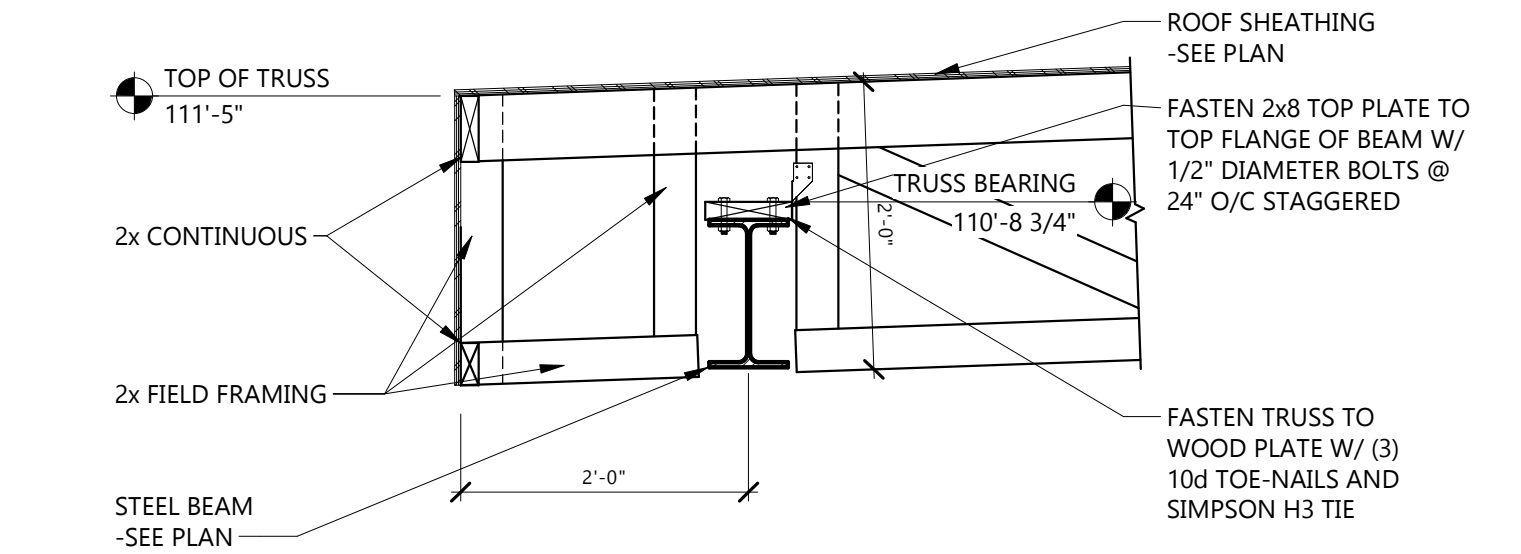
S701



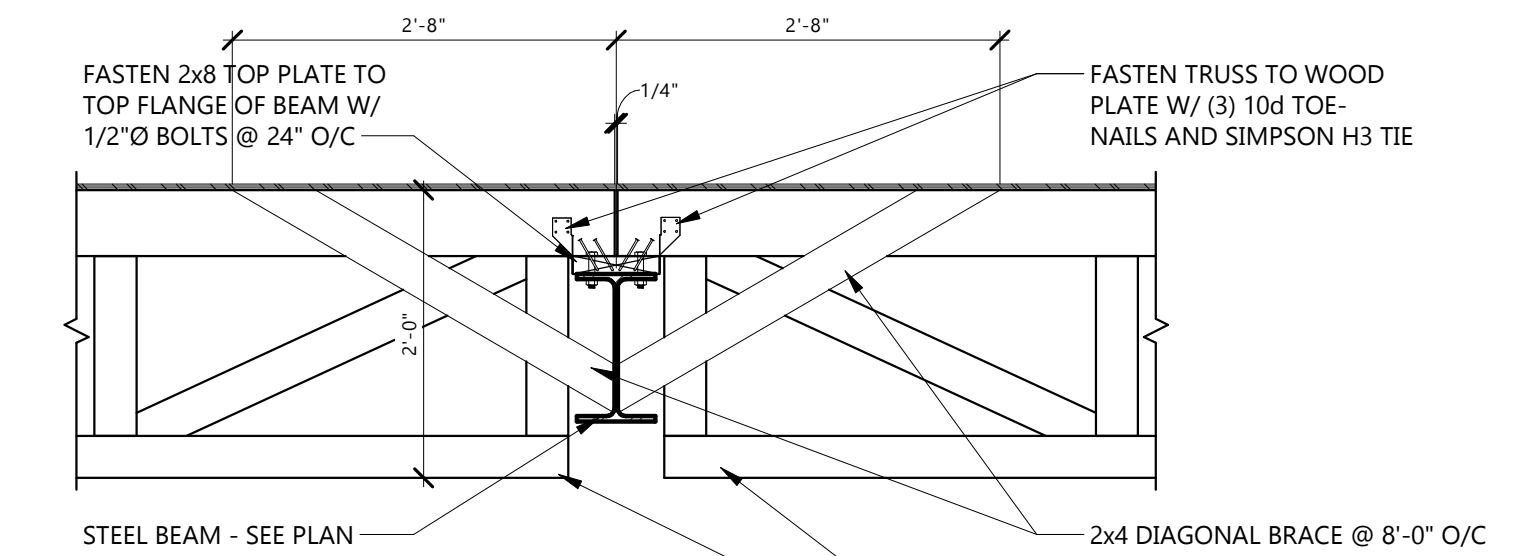
5 BEAM TO COLUMN CONNECTION DETAIL
3/4" = 1'-0"



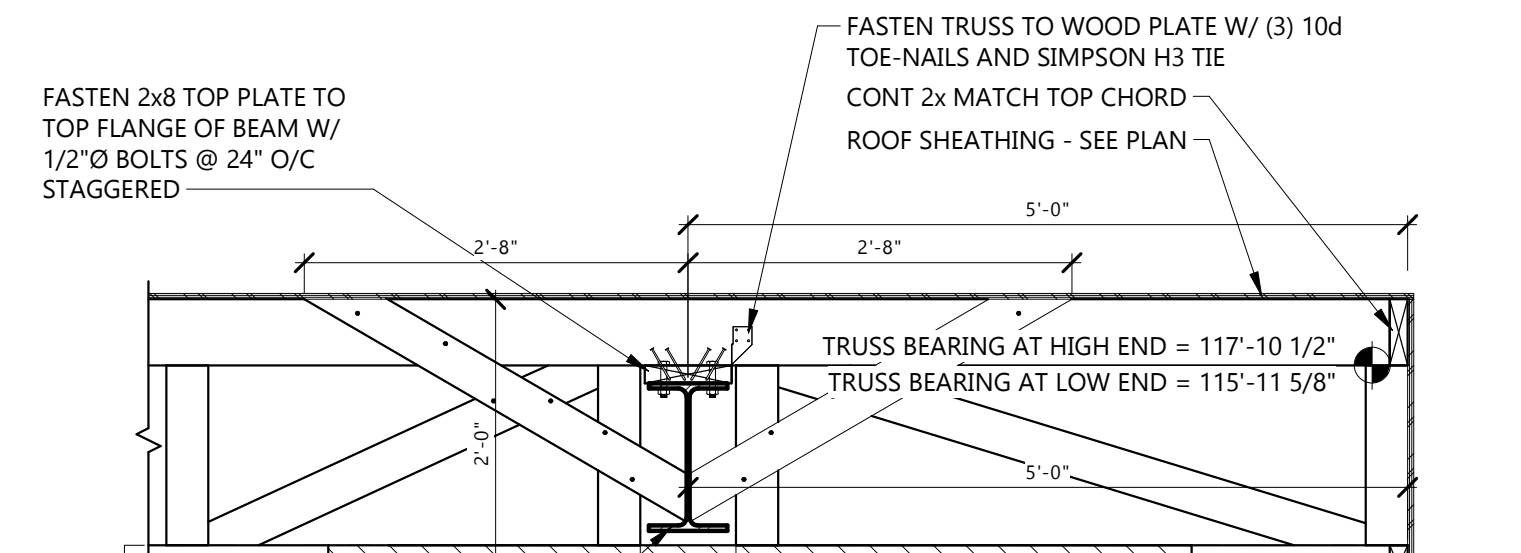
4 BEAM TO BEAM CONNECTION DETAIL
1" = 1'-0"



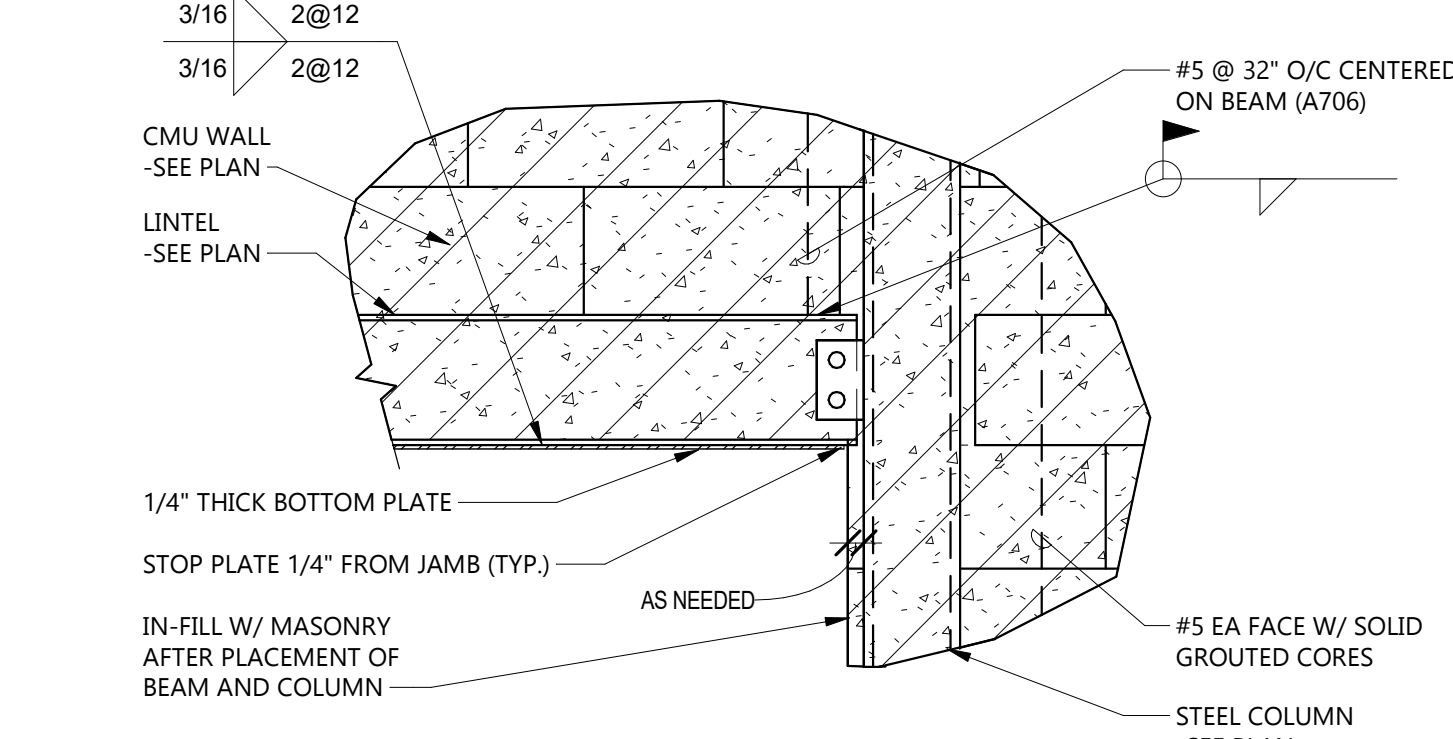
3 TRUSS BEARING DETAIL
3/4" = 1'-0"



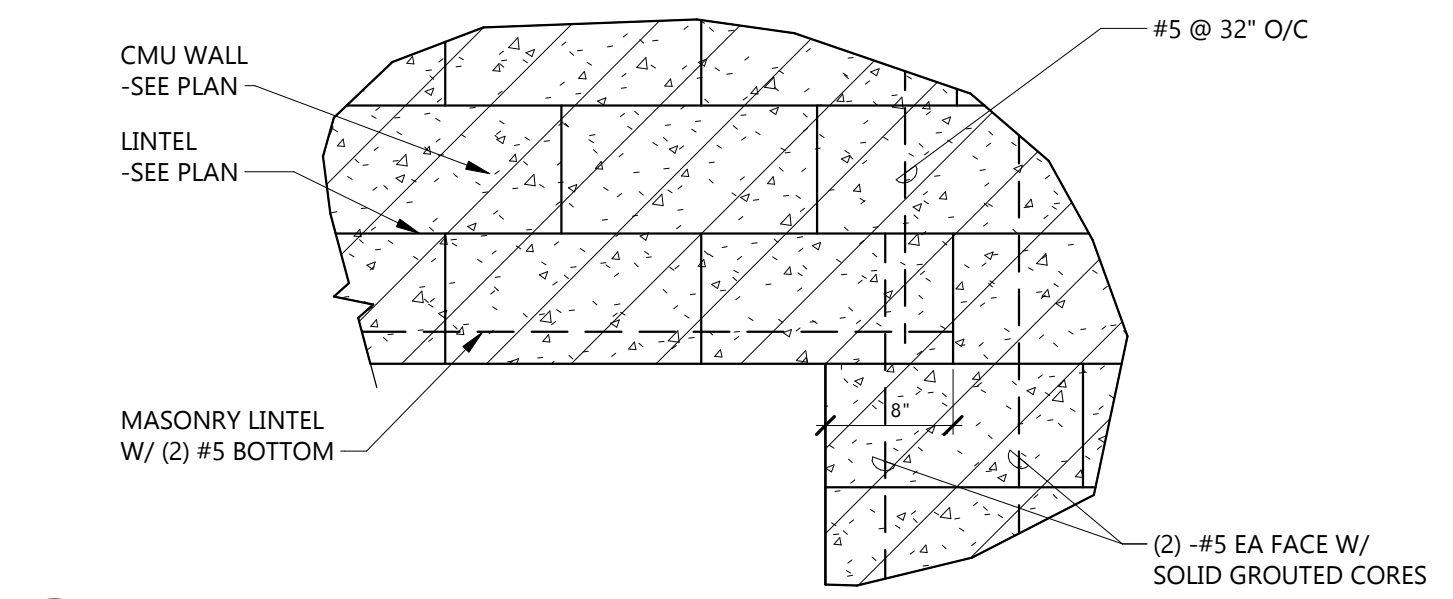
2 TRUSS BEARING
3/4" = 1'-0"



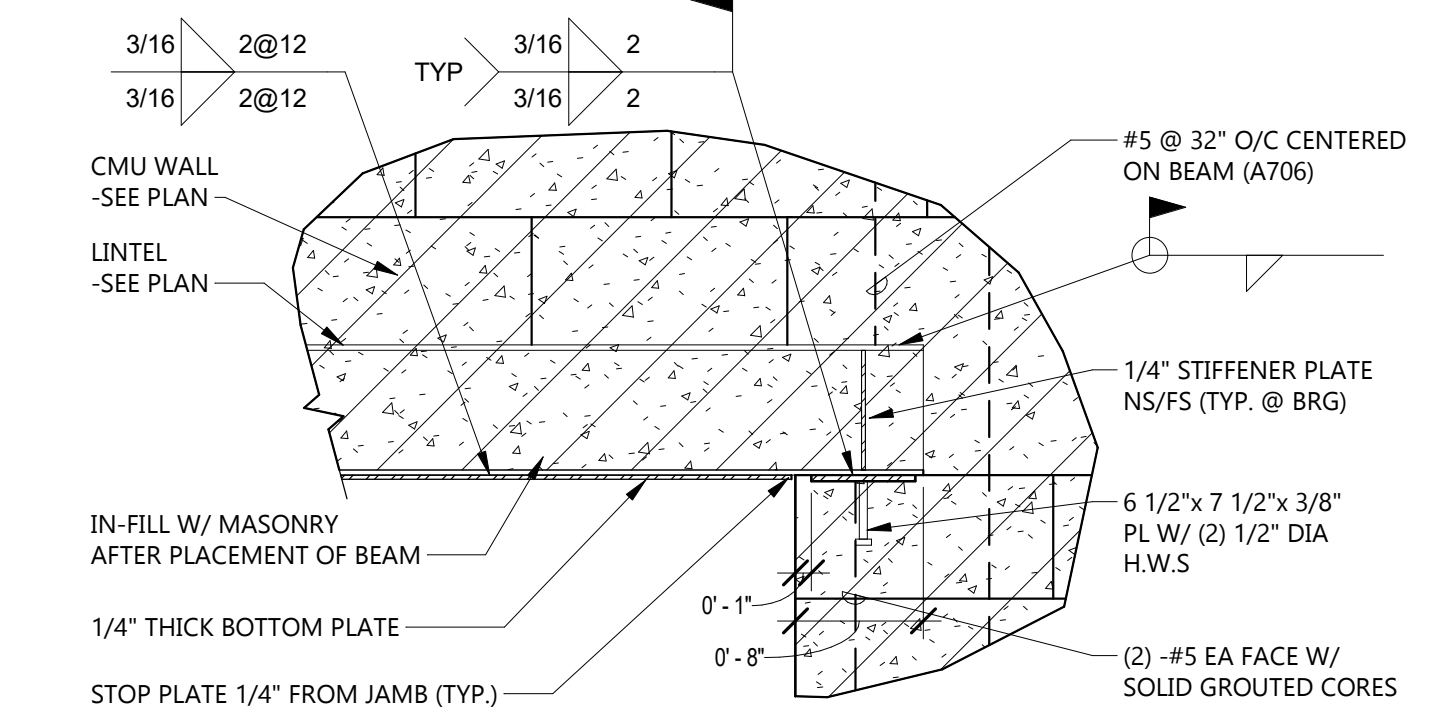
1 TRUSS BEARING DETAIL
3/4" = 1'-0"



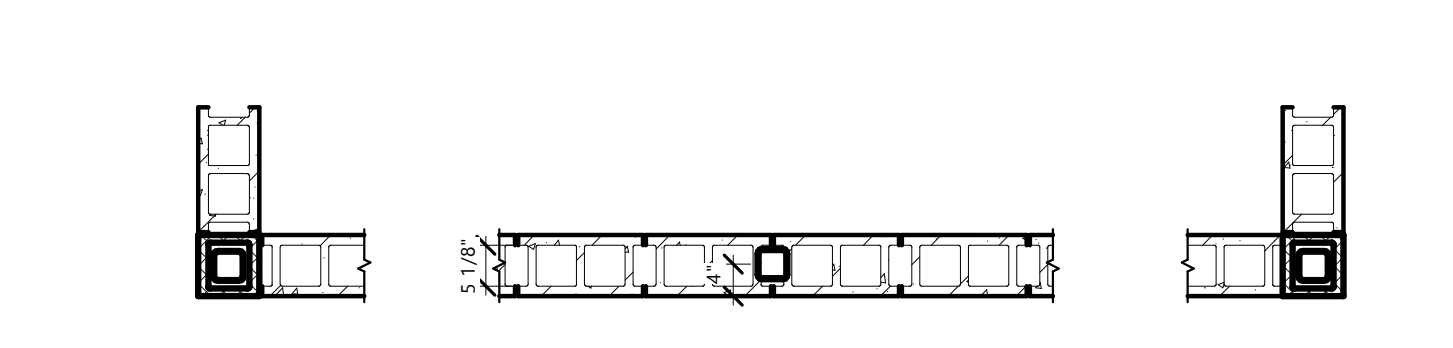
10 LINTEL BEAM @ STEEL COLUMN DETAIL
1" = 1'-0"



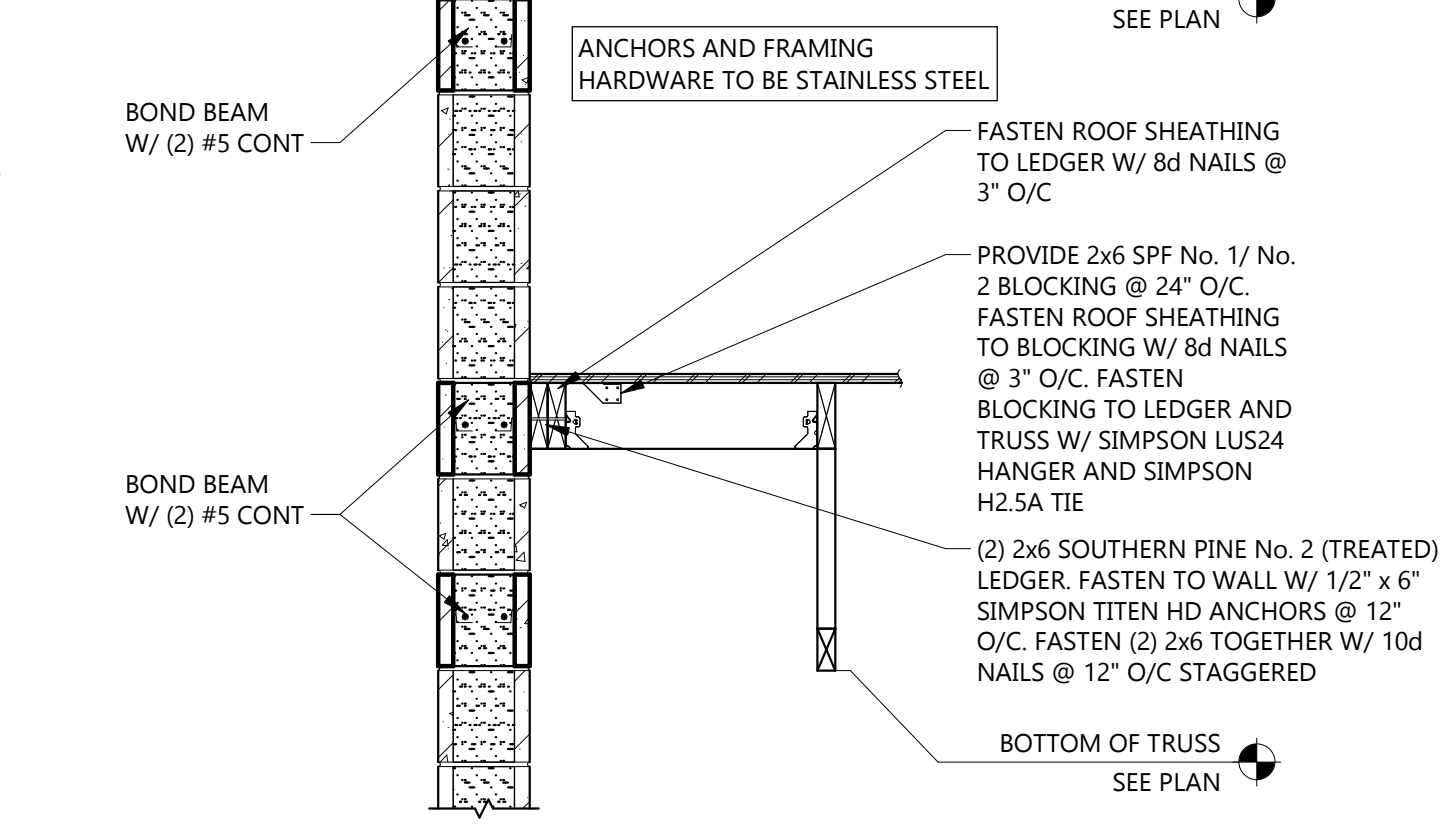
9 TYPICAL MASONRY LINTEL BEARING DETAIL
1" = 1'-0"



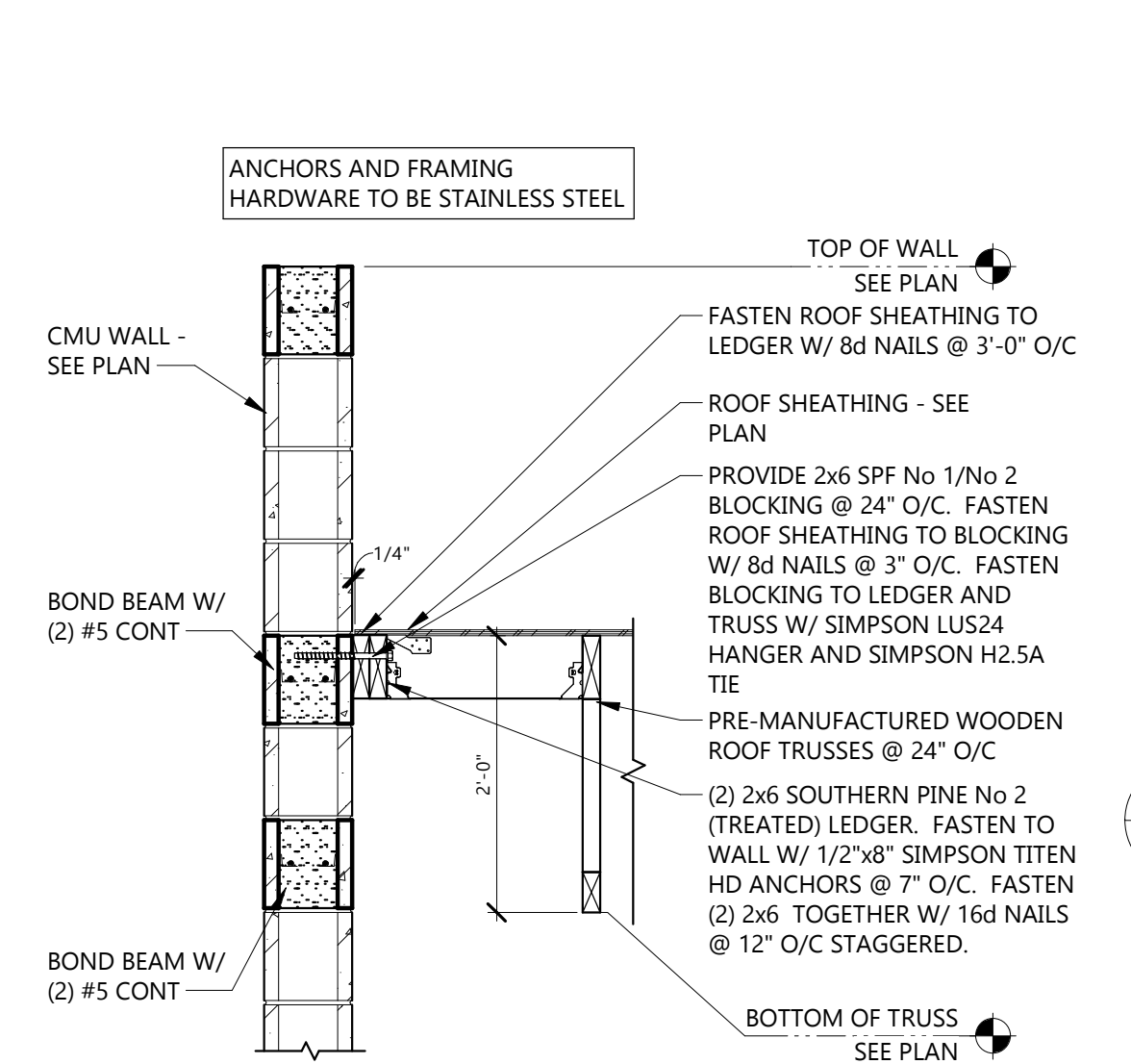
8 TYPICAL LINTEL BEAM @ CMU BEARING DETAIL
1" = 1'-0"



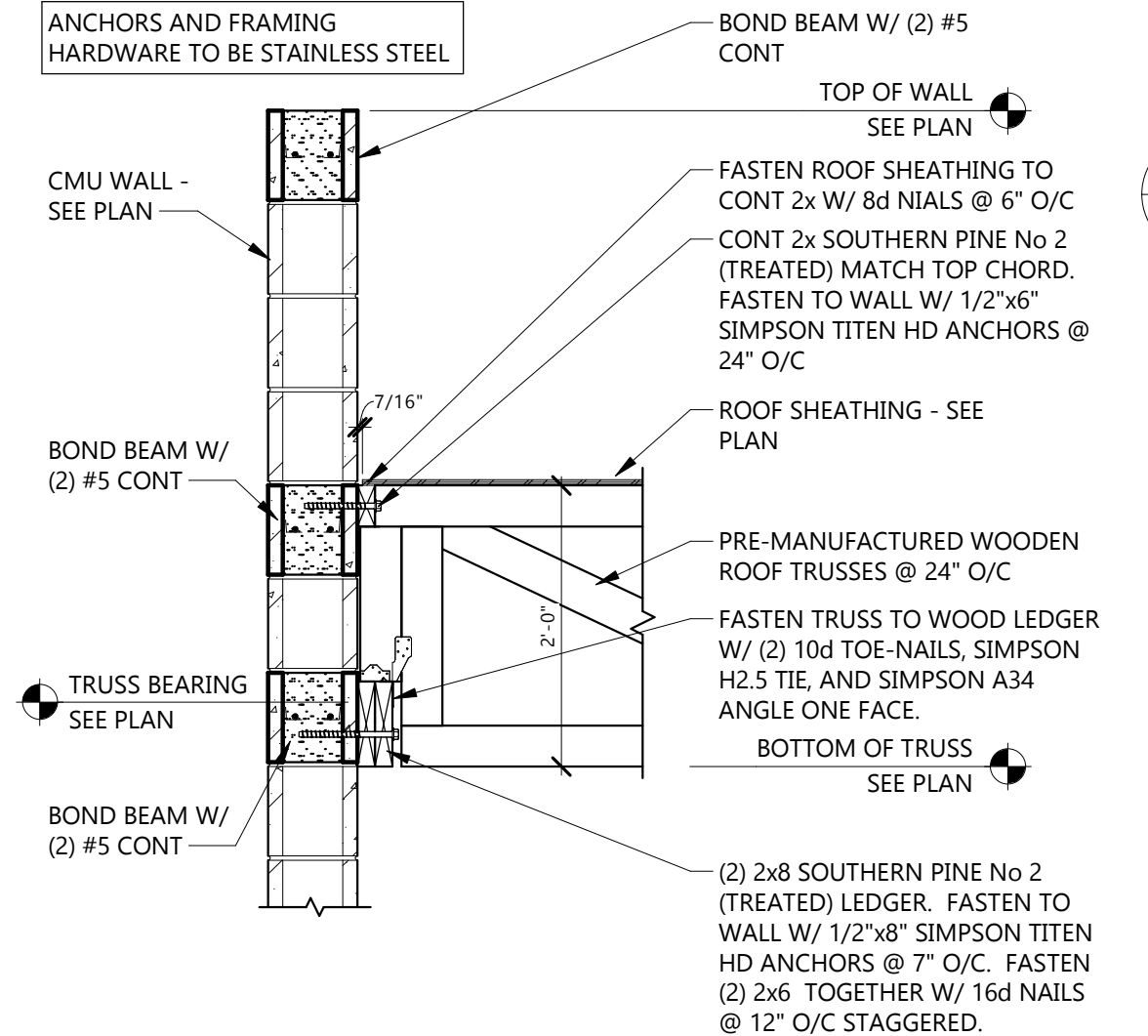
7 COLUMN IN CMU WALL DETAIL
1/2" = 1'-0"



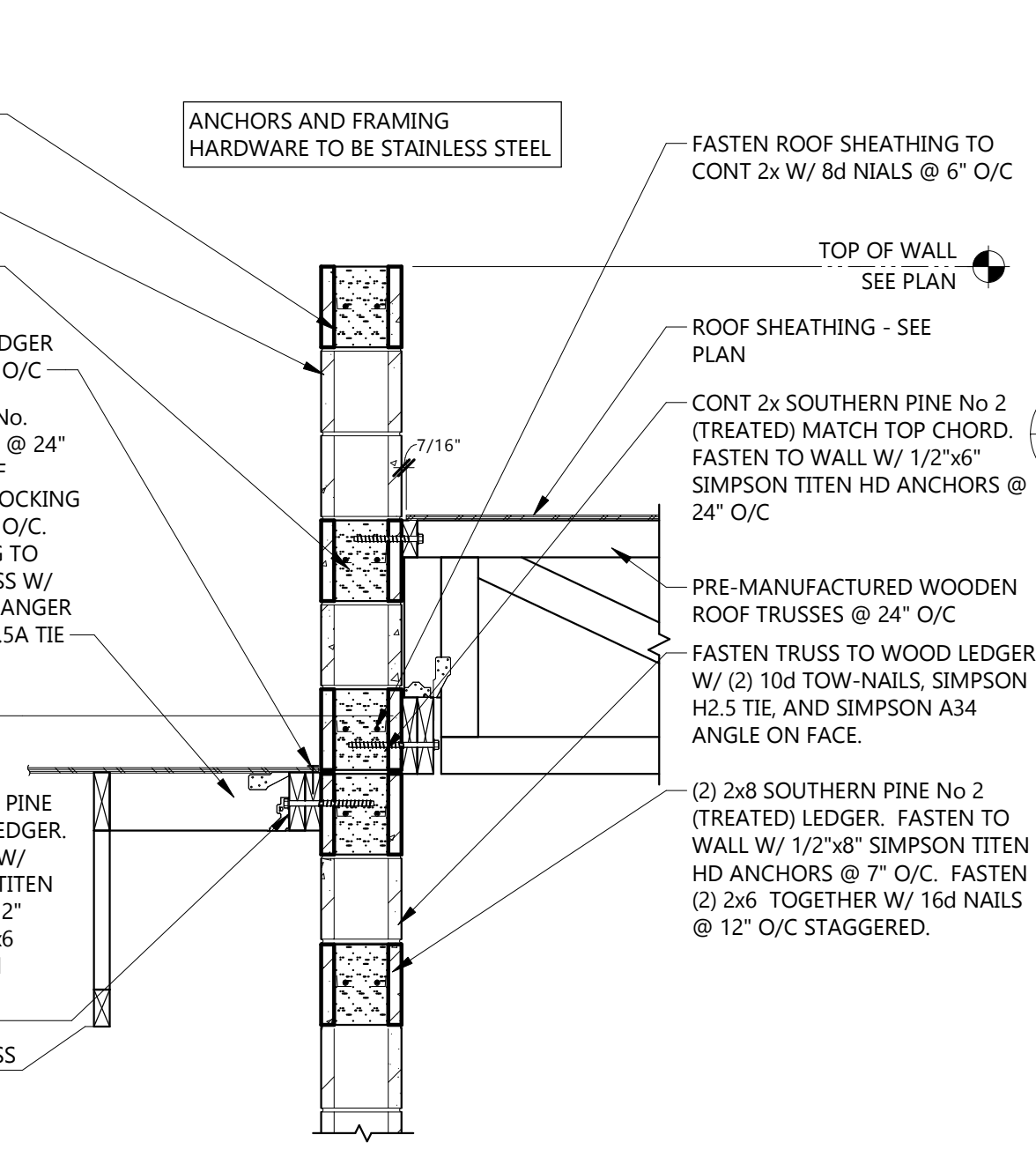
6 ROOF EDGE @ CMU WALL
3/4" = 1'-0"



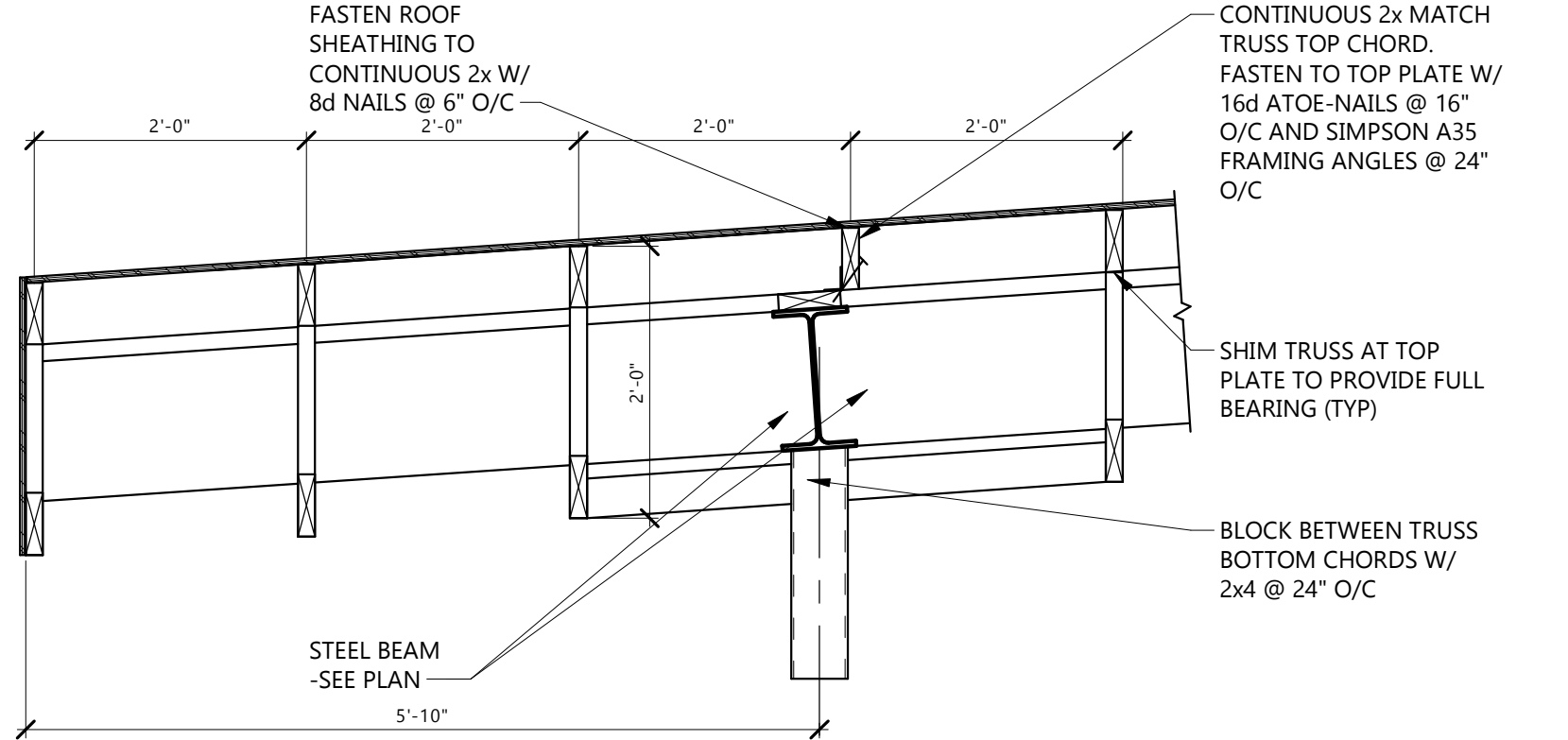
13 ROOF EDGE @ CMU WALL
3/4" = 1'-0"



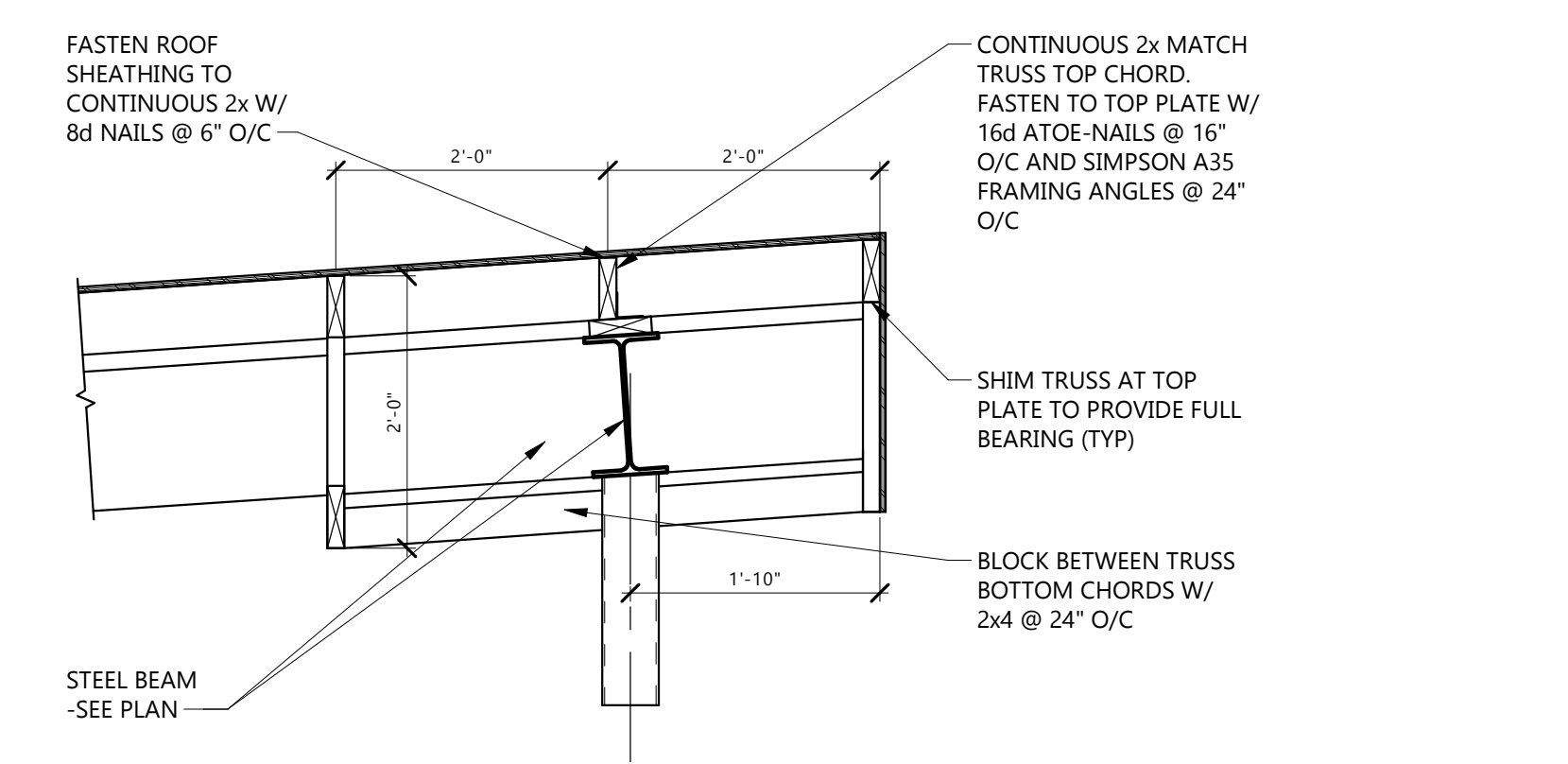
12 TRUSS BEARING AT CMU WALL
3/4" = 1'-0"



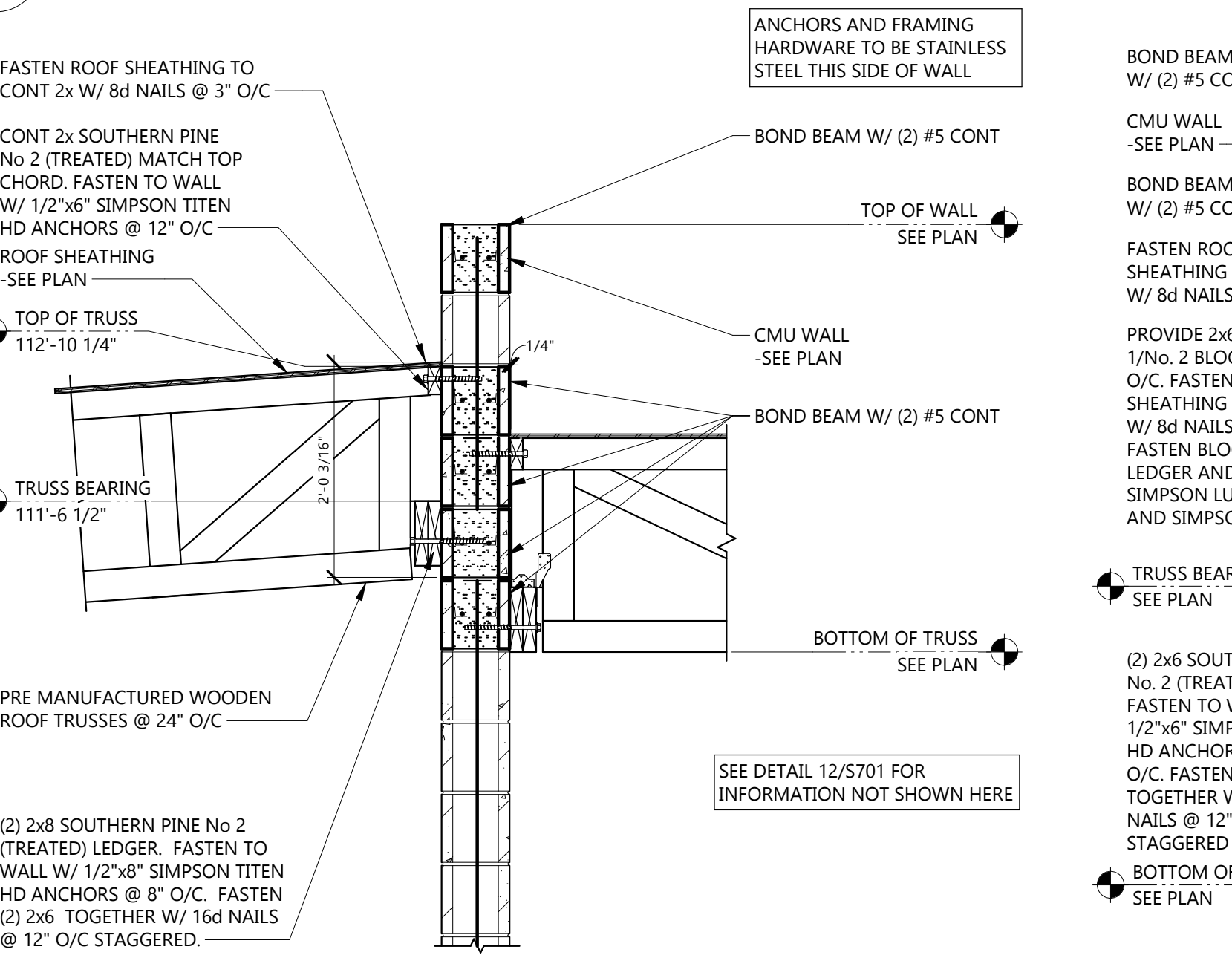
11 TRUSS BEARING @ CMU WALL
3/4" = 1'-0"



16 CANOPY DETAIL (LOW END)
3/4" = 1'-0"



15 CANOPY DETAIL (HIGH END)
3/4" = 1'-0"



14 JOIST BEARING @ CMU WALL (LOW ROOF) DETAIL
3/4" = 1'-0"

Plot Date: 5/19/2023 11:46:40 AM

| DRAWING INDEX | |
|---------------|--------------------------------------|
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| AQ000 | POOL REFERENCE PLAN |
| AQ100 | FITNESS POOL STRUCTURAL PLAN |
| AQ101 | LEISURE POOL STRUCTURAL PLAN |
| AQ102 | POOL STRUCTURAL DETAILS |
| AQ103 | POOL STRUCTURAL SECTIONS |
| AQ104 | POOL STRUCTURAL SECTIONS |
| AQ200 | FITNESS POOL PLAN & SECTIONS |
| AQ201 | FITNESS POOL DETAILS |
| AQ202 | FITNESS POOL DETAILS |
| AQ300 | LEISURE POOL PLAN & SECTIONS |
| AQ301 | LEISURE POOL DETAILS |
| AQ302 | LEISURE POOL DETAILS |
| AQ303 | LEISURE POOL DETAILS |
| AQ400 | WATERSLIDE PLAN, ELEVATION & DETAILS |
| AQ500 | POOL LOCATION POINT SCHEDULES |
| AQ501 | POOL LOCATION POINT PLAN |
| AQ600 | POOL PIPING NOTES & SCHEDULES |
| AQ601 | POOL SUCTION PIPING PLAN |
| AQ602 | POOL RETURN PIPING PLAN |
| AQ603 | POOL FEATURE RETURN PIPING PLAN |
| AQ700 | POOL MECHANICAL NOTES & SCHEDULES |
| AQ701 | POOL MECHANICAL ROOM PLAN & SECTIONS |
| AQ702 | POOL MECHANICAL DETAILS |
| AQ703 | POOL MECHANICAL DETAILS |
| AQ704 | POOL MECHANICAL DETAILS |
| AQ705 | POOL MECHANICAL DETAILS |
| AQ800 | FITNESS POOL SYSTEMS SCHEMATIC |
| AQ801 | LEISURE POOL SYSTEMS SCHEMATIC |
| AQ900 | ELECTRICAL COVER SHEET |
| AQ901 | ELECTRICAL OVERALL PLAN |
| AQ902 | ELECTRICAL FITNESS POOL PLAN |
| AQ903 | ELECTRICAL WATERSLIDE PLAN |
| AQ904 | ELECTRICAL POOL MECHANICAL ROOM PLAN |

| DESIGN DATA | | | |
|------------------------------|---------|-------------------|-------------------|
| | UNITS | FITNESS POOL | LEISURE POOL |
| LENGTH | FT. | 75'-0 3/4" | VARIES |
| WIDTH | FT. | 55'-0" | VARIES |
| WATER SURFACE AREA | SQ. FT. | 4,128 | 4,653 |
| PERIMETER | FT. | 260 | 405 |
| VOLUME | GALLON | 125,496 | 91,687 |
| RECIRCULATION SYSTEM | | | |
| POOL TURNOVER RATE | HOURLY | 3.98 | 1.91 |
| RECIRCULATION RATE | GPM | 525 | 800 |
| SEWER CAPACITY | GPM | REFER TO PLUMBING | REFER TO PLUMBING |
| BATHER LOAD | PERSON | 219 | 261 |
| MAXIMUM FACILITY BATHER LOAD | PERSON | 480 | |

- ### GENERAL POOL NOTES
- ⊕ DENOTES WATER DEPTH FROM WATER LEVEL.
 - POOL FINISH MUST BE A PROPRIETARY AGGREGATE PLASTER WITH A 6" CERAMIC TILE BAND WITH A CAST-IN-PLACE PERIMETER COPING AND TILE DECK MARKINGS.
 - ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS MUST HAVE A SLIP RESISTANT FINISH.
 - TYPICAL POOL DIMENSIONS SHOWN ARE FROM INSIDE FINISHED POOL WALL.
 - REFER TO POOL STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS.
 - THE JUNCTION BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVED WITH A MAXIMUM 6" RADIUS.
 - 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.
 - ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
 - SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
 - REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
 - ALL SURFACE WATER MUST DRAIN AWAY FROM THE POOL.
 - REFER TO ELECTRICAL FOR GFI OUTLETS ON POOL DECK.
 - ELECTRICAL INSPECTOR MUST APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
 - NO GROUND WATER MUST BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
 - FITNESS POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S).
 - REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
 - ALL METALLIC PORTIONS OF PLAY FEATURES MUST BE EPOXY COATED STAINLESS STEEL.
 - 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: 4/AQ704 AND POOL ELECTRICAL.
 - 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.
 - CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
 - THE POOLS 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: 10/AQ704

DEFERRED APPROVAL NOTICE

INSTALLATION OF THE WATERSLIDE/SPRAY FEATURES AND ASSOCIATED FEATURE FOOTINGS SHALL NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS, AND COMPLETE ZONE 4 SESMIC CALCULATIONS 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 SHALL BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.

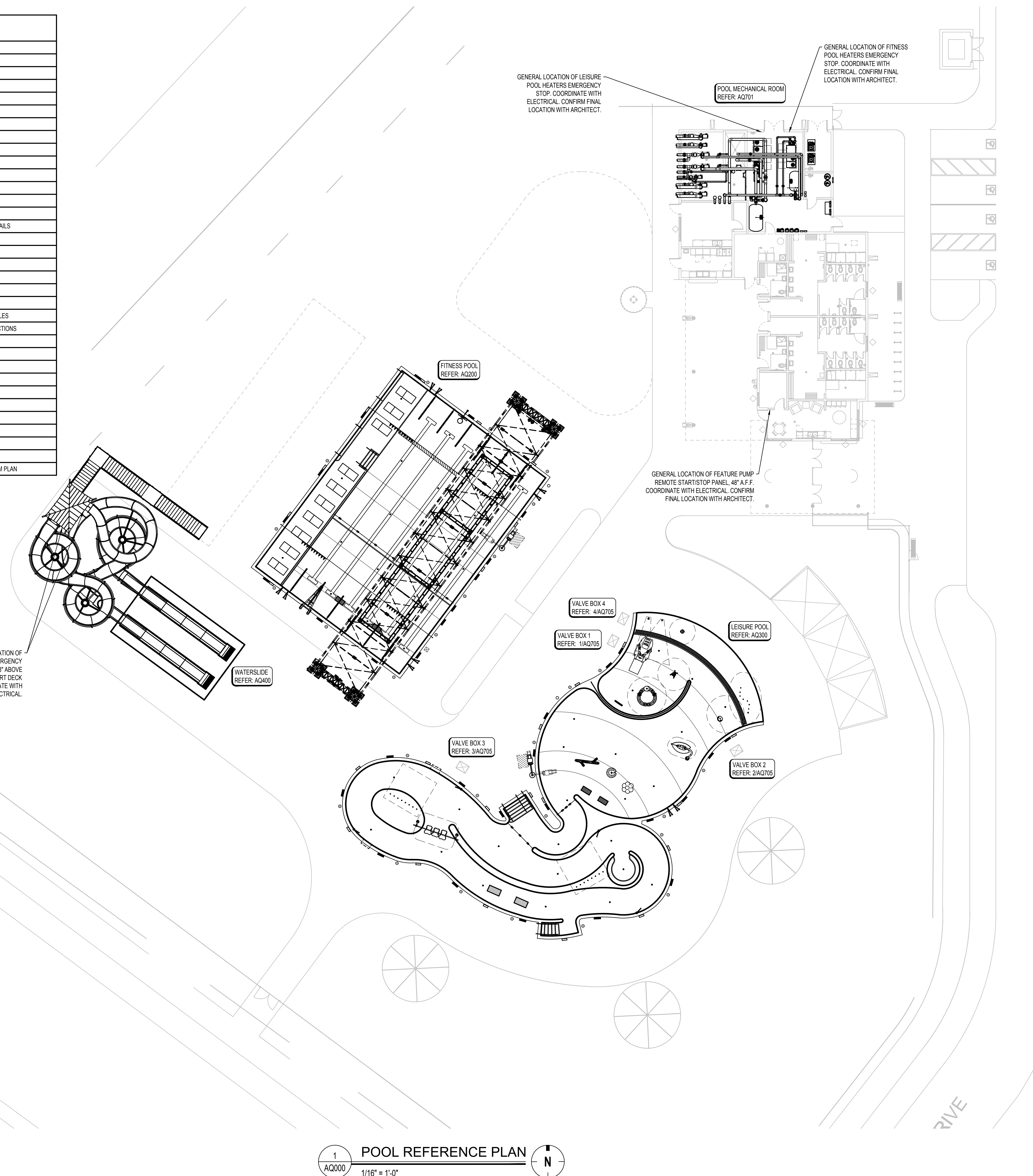
CONTRACTOR SUPPLIED POOL CHEMICALS

| DESCRIPTION | AMOUNT |
|----------------------|-------------------------------|
| CALCIUM HYPOCHLORITE | FULL FEEDERS +300 LBS |
| CO | FULL BULK TANKS: 750 LBS EACH |
| SODIUM BICARBONATE | 200 LBS |
| CALCIUM CARBONATE | 100 LBS |
| SODIUM THIOSULFATE | 50 LBS |

FITNESS POOL ALTERNATE

BASE BID: THE FITNESS POOL SHALL NOT BE INSTALLED. PROVISIONS FOR FUTURE INSTALLATION SHALL BE PROVIDED, SUCH AS CAPPING PIPING STUBS FOR RECIRCULATION PUMP WITHIN THE PUMP PIT, DEDICATED SPACE FOR THE HEATERS/FILTERS/CONTROLLERS/FEEDERS, AND MANHOLE DEPTH REQUIRED FOR FUTURE FITNESS POOL WINTERIZATION AND UNDERDRAIN.

ALTERNATE: PROVIDE FITNESS POOL AND ALL ASSOCIATED PIPING, EQUIPMENT, AND ACCESSORIES IN THEIR ENTIRETY PER THE CONSTRUCTION DOCUMENTS.



1
AQ000
1/16" = 1'-0"

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Interior Design Industrial
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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

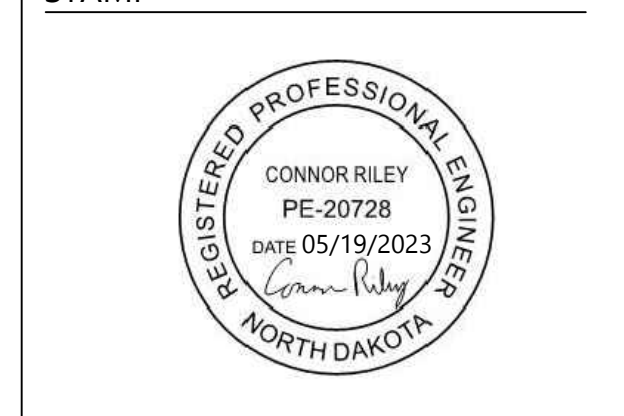
CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: **20224620**
DRAWN BY: **KAS**
CHECKED BY: **CCH**

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DRAWING TITLE
POOL REFERENCE PLAN

AQ000



CLIENT
**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

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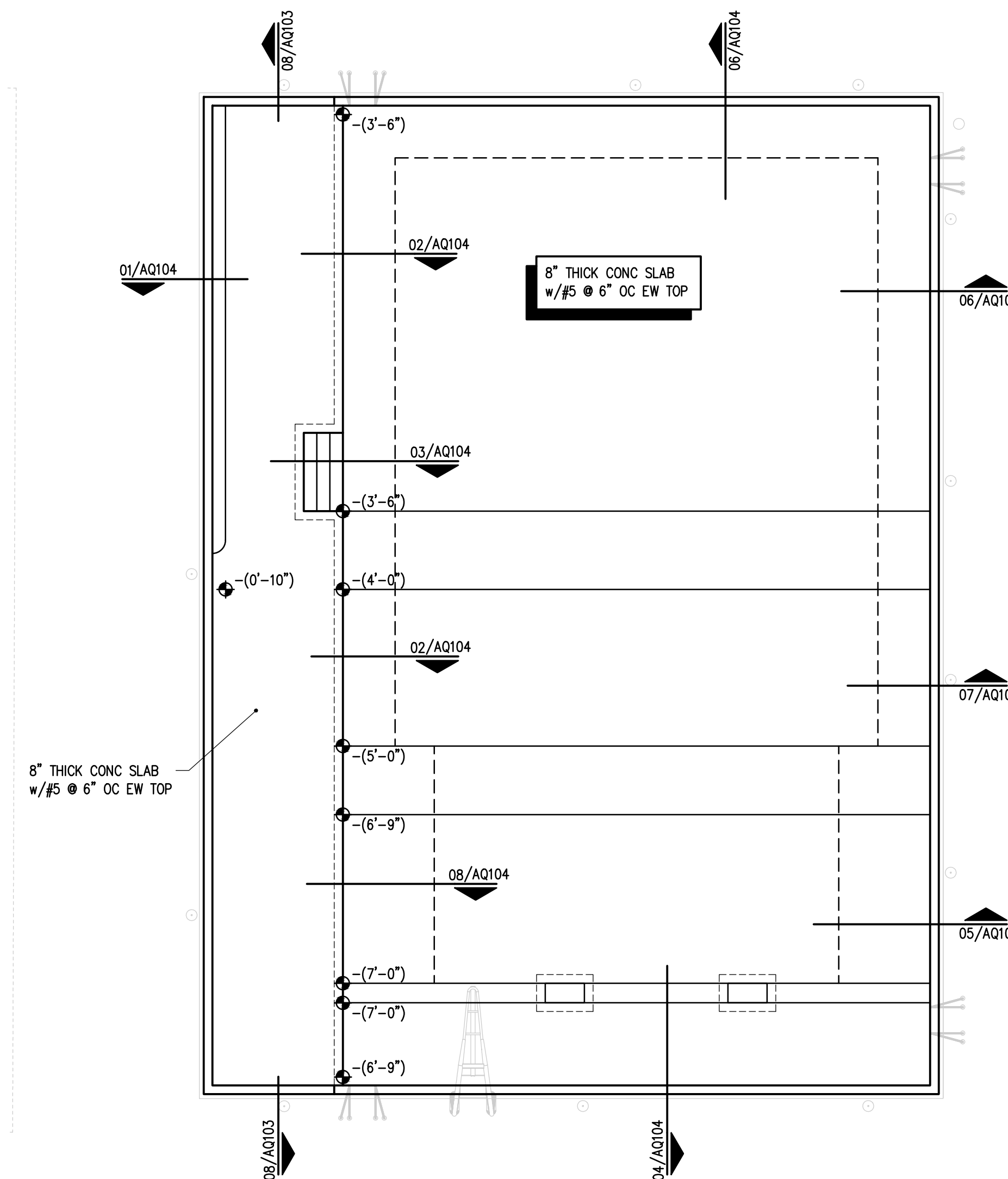
STAMP



Mark Orsini

DRAWING TITLE
**FITNESS POOL
STRUCTURAL PLAN**

AQ100



FITNESS POOL STRUCTURAL PLAN

SCALE: 1/8" = 1'-0"
0' 1' 2' 4' 8' 16'



PLAN NOTES:

1. WATER ELEVATION OF POOLS = + (0'-0"). SEE CIVIL DRAWINGS FOR CORRELATION TO ACTUAL SITE ELEVATION.
2. PROVIDE COMPACTED, FREE DRAINING FILL UNDER ALL POOL BOTTOM SLABS. SEE NOTE PFI ON SHEET AQ102.
3. PROVIDE ELECTRICAL GROUNDING FOR ALL REINFORCING AND EMBEDDED ITEMS. SEE ELECTRICAL DRAWINGS.
4. SEE SWIMMING POOL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
5. WALLS ARE TYPICALLY SHOWN ON PLAN AT FOUNDATION LEVEL. SEE DETAILS & COORDINATE WITH SWIMMING POOL DRAWINGS FOR ALL WALL DETAIL ABOVE BASE SLAB.
6. ELEVATIONS ARE GIVEN RELATIVE TO POOL WATER SURFACE, UNO. COORDINATE WITH SWIMMING POOL DRAWINGS.
7. ALL ELEVATIONS ARE TO POOL FINISH.



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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

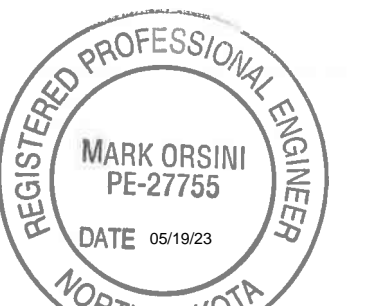
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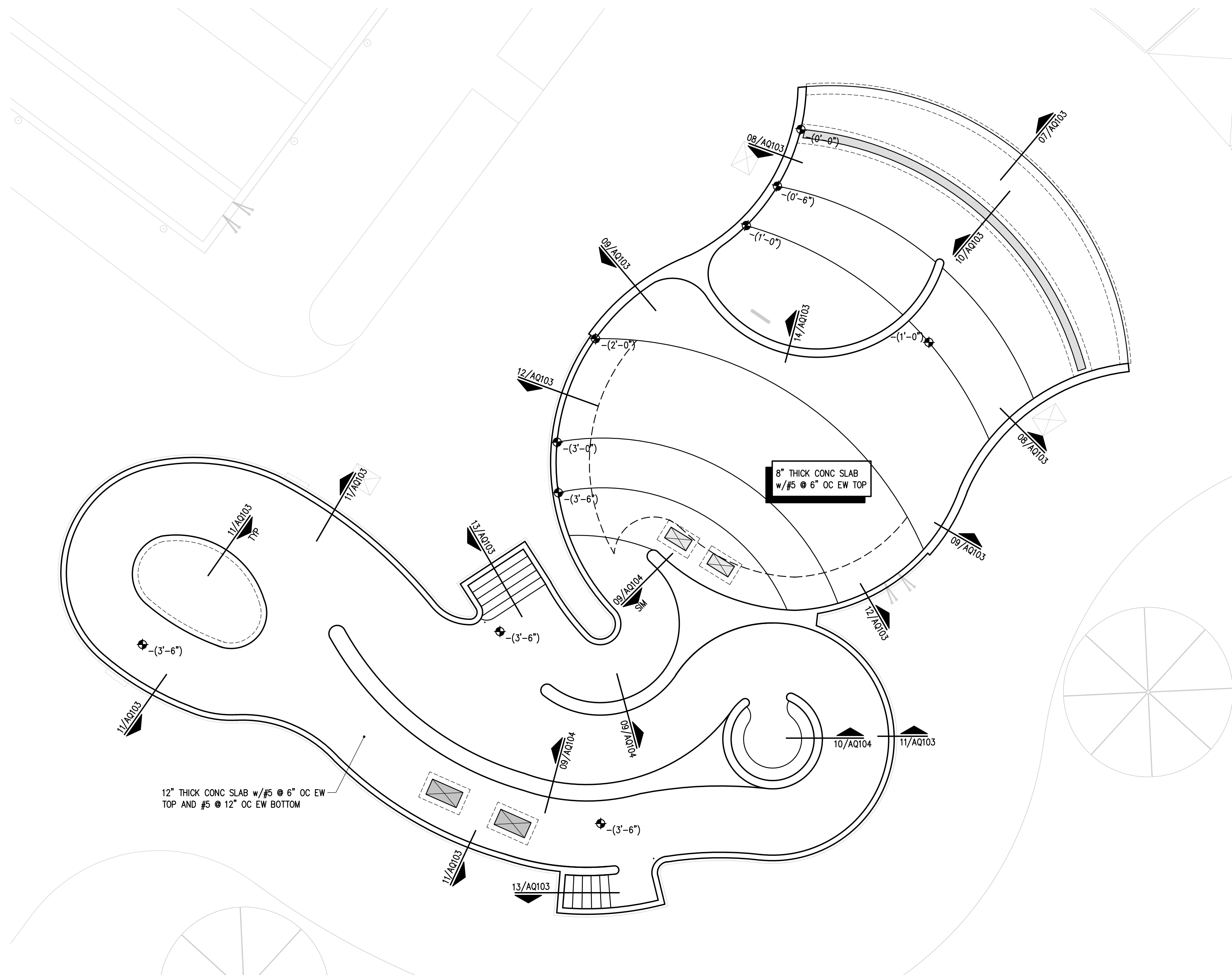
STAMP



Mark Orsini

DRAWING TITLE
LEISURE POOL STRUCTURAL PLAN

AQ101



LEISURE POOL STRUCTURAL PLAN

SCALE: 1/8" = 1'-0"
0' 1" 2" 4" 8" 16"



PLAN NOTES:

1. WATER ELEVATION OF POOLS = + (0'-0"). SEE CIVIL DRAWINGS FOR CORRELATION TO ACTUAL SITE ELEVATION.
2. PROVIDE COMPACTED, FREE DRAINING FILL UNDER ALL POOL BOTTOM SLABS. SEE NOTE PF1 ON SHEET AQ102.
3. PROVIDE ELECTRICAL GROUNDING FOR ALL REINFORCING AND EMBEDDED ITEMS, SEE ELECTRICAL DRAWINGS.
4. SEE SWIMMING POOL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
5. WALLS ARE TYPICALLY SHOWN ON PLAN AT FOUNDATION LEVEL. SEE DETAILS & COORDINATE WITH SWIMMING POOL DRAWINGS FOR ALL WALL DETAIL ABOVE BASE SLAB.
6. ELEVATIONS ARE GIVEN RELATIVE TO POOL WATER SURFACE, UNO. COORDINATE WITH SWIMMING POOL DRAWINGS.
7. ALL ELEVATIONS ARE TO POOL FINISH.

ABBREVIATIONS LIST

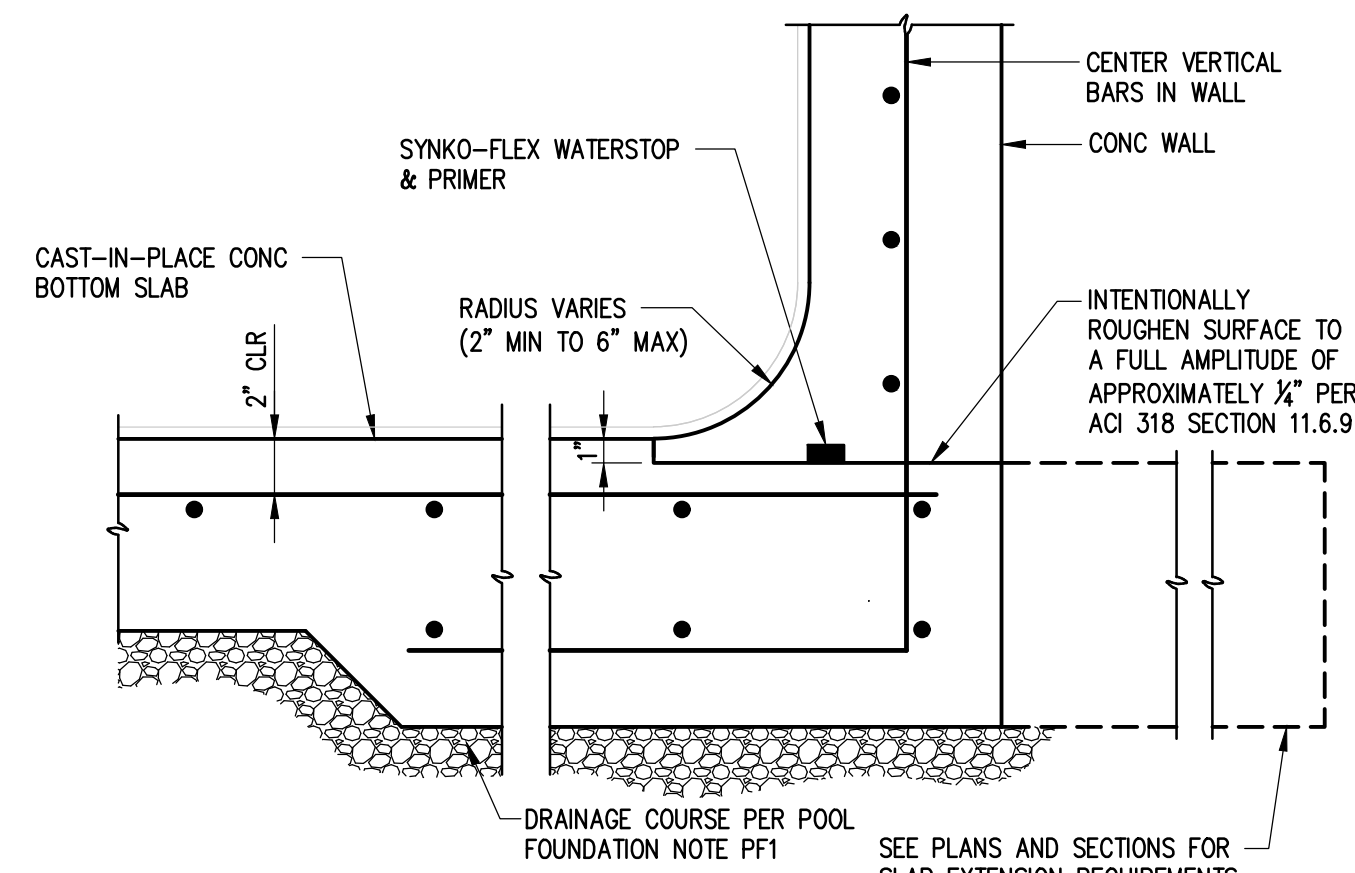
| | | | |
|--------|--|--------|-------------------------------|
| AR | ANCHOR RODS | MAT'L | MATERIAL |
| ACI | AMERICAN CONCRETE INSTITUTE | MAX | MAXIMUM |
| ADD'L | ADDITIONAL | MEM | METAL BUILDING MFR |
| ADH | ADHESIVE | MCJ | MASONRY CONTROL JT |
| ADJ | ADJACENT | MECH | MECHANICAL |
| AESS | ARCHITECTURALLY EXPOSED | MEZZ | MEZZANINE |
| AFF | ABOVE FINISHED FLOOR | MFR | MANUFACTURER |
| AGGR | AGGREGATE | MIN | MINIMUM |
| AHU | AIR HANDLING UNIT | MISC | MISCELLANEOUS |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | MO | MASONRY OPENING |
| AISI | AMERICAN IRON AND STEEL INSTITUTE | MOM | MOMENT |
| ALUM | ALUMINUM | MSW | MASONRY SHEAR WALL |
| ALT | ALTERNATE | MSL | MEAN SEA LEVEL |
| APA | AMERICAN PLYWOOD ASSOCIATION | MTL | METAL |
| APPROX | APPROXIMATE | MW | MASONRY WALL |
| ARCH | ARCHITECT | NIC | NOT IN CONTRACT |
| ASTM | AMERICAN SOCIETY OF TESTING MATERIALS | NO | NUMBER |
| AWS | AMERICAN WELDING SOCIETY | NS | NEAR SIDE |
| BB | BOND BEAM | NTS | NOT TO SCALE |
| B/B | BACK TO BACK | O/O | OUT TO OUT |
| BC | BOTTOM CHORD | OA | OVERALL |
| BD | BOARD | OC | ON CENTER |
| BLDG | BUILDING | OD | OUTSIDE DIAMETER |
| BLK | BLOCK | OF | OUTSIDE FACE |
| BM | BEAM | OH | OVER HEAD |
| BOTT | BOTTOM | OPNG | OPENING |
| BOT | BOTTOM | OPP | OPPOSITE |
| BP | BEARING PLATE | OPP HD | OPPOSITE HAND |
| BRDG | BRIDGING | OSB | ORIENTED STRAND BOARD |
| BRG | BEARING | OSL | OUTSTANDING LEG |
| BRK | BRICK | OVS | OVERSIZE HOLE |
| BS | BOTH SIDES | PAF | PONDER ACTUATED FASTENER |
| BSMT | BASEMENT | PC | PRECAST |
| BTWN | BETWEEN | PL | PLATE |
| BUC | BUILT UP COLUMN | PLF | POUNDS PER LINEAR FOOT |
| C | CAMBER | PLYWD | PLYWOOD |
| C/C | CENTER TO CENTER | PNL | PANEL |
| CANT | CANTILEVER | PROJ | PROJECTION |
| CFS | COLD FORMED STEEL | PSF | POUNDS PER SQUARE FOOT |
| CJ | CONTROL AND OR CONSTRUCTION JOINT | PSI | POUNDS PER SQUARE INCH |
| CL | CENTERLINE | PSL | PARALLEL STRAND LUMBER |
| CLR | CLEAR | PT | PRESSURE TREATED |
| CMU | CONCRETE MASONRY UNIT | PTN | PARTITION |
| COL | COLUMN | PVMT | PAVEMENT |
| COORD | COORDINATE | QTY | QUANTITY |
| COMP | COMPACTED | R | RADIUS |
| CONC | CONCRETE | RD | ROOF DRAIN |
| CONN | CONNECTION | REF | REFERENCE |
| CONST | CONSTRUCTION | REINF | REINFORCE(D)(ING)(MENT) |
| CONT | CONTINUOUS | REQ'D | REQUIRED |
| CTR | CENTER | REV | REVISION/REVISED |
| CTR'D | CENTERED | RO | ROUGH OPENING |
| DIA | DIAMETER | RDR | ROOF RELIEF DRAIN |
| DIAG | DIAGONAL | RTN | RETURN |
| DIM | DIMENSION | RTU | ROOF TOP UNIT |
| DL | DEAD LOAD | RW | RETAINING WALL |
| DLT | DEEP LEG TRACK | SCHED | SCHEDULE |
| DO | DITTO | SECT | SECTION |
| DN | DOWN | SHT | SHEET |
| DTL | DETAIL | SIM | SIMILAR |
| DWG | DRAWING | SJ | SAWJOINT |
| DWL | DOWEL | SJI | STEEL JOIST INSTITUTE |
| EA | EACH | SL | SLOPED |
| EE | EACH END | SLRS | SEISMIC LOAD RESISTING SYSTEM |
| EF | EACH FACE | SPA | SPACE(S) |
| ENG | ENGINEER | SQ | SQUARE |
| ELEV | ELEVATION | SS | STAINLESS STEEL |
| ELECT | ELECTRICAL | SSL | SHORT SLOTTED HOLES |
| EOD | EDGE OF DECK | STD | STANDARD |
| EOS | EDGE OF SLAB | STIFF | STIFFENERS |
| EQ | EQUAL | STL | STEEL |
| EQUIV | EQUIVALENT | STRUCT | STRUCTURAL |
| ES | EACH SIDE | SW | SHEAR WALL |
| EW | EACH WAY | SYMM | SYMMETRICAL |
| EX | EXISTING | T&B | TOP AND BOTTOM |
| EXP | EXPANSION | T&G | TONGUE AND GROOVE |
| EXT | EXTERIOR | TB | TIE BEAM |
| F/ | FACE OF | TC | TOP CHORD |
| FD | FLOOR DRAIN | TEMP | TEMPERATURE |
| FEN | FOUNDATION | TF | TRENCH FOOTING |
| FIN | FINISH | THK | THICK |
| FLR | FLOOR | THKS | THICKENED SLAB |
| FLG | FLANGE | THR'D | THREADED |
| FS | FAR SIDE | TL | TOTAL LOAD |
| FTG | FOOTING | TOP'G | TOPPING |
| GA | GAUGE | TRANS | TRANSVERSE |
| GALV | GALVANIZED | TYP | TYPICAL |
| GB | GRADE BEAM | UNO | UNLESS NOTED OTHERWISE |
| GC | GENERAL CONTRACTOR | VERT | VERTICAL |
| GL | GLULAM | VIF | VERIFY IN FIELD |
| GR | GRADE | W/ | WITH |
| HC | HOLLOW CORE | WD | WOOD |
| HD | HOLD DOWN | WO | WINDOW OPENING |
| HGT | HEIGHT | WP | WORKING POINT |
| HORIZ | HORIZONTAL | WT | WEIGHT |
| HP | HIGH POINT | WWF | WELDED WIRE FABRIC |
| HS | HEADED STUD | | |
| HSS | HOLLOW STRUCTURAL SECTION | | |
| ID | INSIDE DIAMETER | | |
| IF | INSIDE FACE | | |
| INFO | INFORMATION | | |
| INT | INTERIOR | | |
| INV | INVERT | | |
| JST | JOIST | | |
| JT | JOINT | | |
| K | KIP | | |
| KO | KNOCK OUT | | |
| LB | POUND | | |
| LDG | LEDGE | | |
| LG | LONG | | |
| LL | LIVE LOAD | | |
| LLH | LONG LEG HORIZONTAL | | |
| LLV | LONG LEG VERTICAL | | |
| LNTL | LINTEL | | |
| LSL | LONG SLOTTED HOLES | | |
| LONG | LONGITUDINAL | | |
| LP | LOW POINT | | |
| LVL | LAMINATED VENEER LUMBER | | |
| MAS | MASONRY | | |

ELEVATION TOP AND BOTTOM OF LIST

| | |
|--------|----------------------|
| T/ | ELEVATION, TOP OF |
| B/ | ELEVATION, BOTTOM OF |
| T/BB | TOP OF BOND BEAM |
| T/BM | TOP OF BEAM |
| T/CONC | TOP OF CONCRETE |
| T/F | TOP OF FOOTING |
| T/ALDG | TOP OF LEDGE |
| T/MAS | TOP OF MASONRY |
| T/P | TOP OF PIER |
| T/SLAB | TOP OF SLAB |
| T/STL | TOP OF STEEL |
| T/W | TOP OF WALL |
| T/GB | TOP OF GRADE BEAM |
| T/CAIS | TOP OF CAISSON |
| B/PL | BOTTOM OF PLATE |
| B/F | BOTTOM OF FOOTING |

SYMBOLS

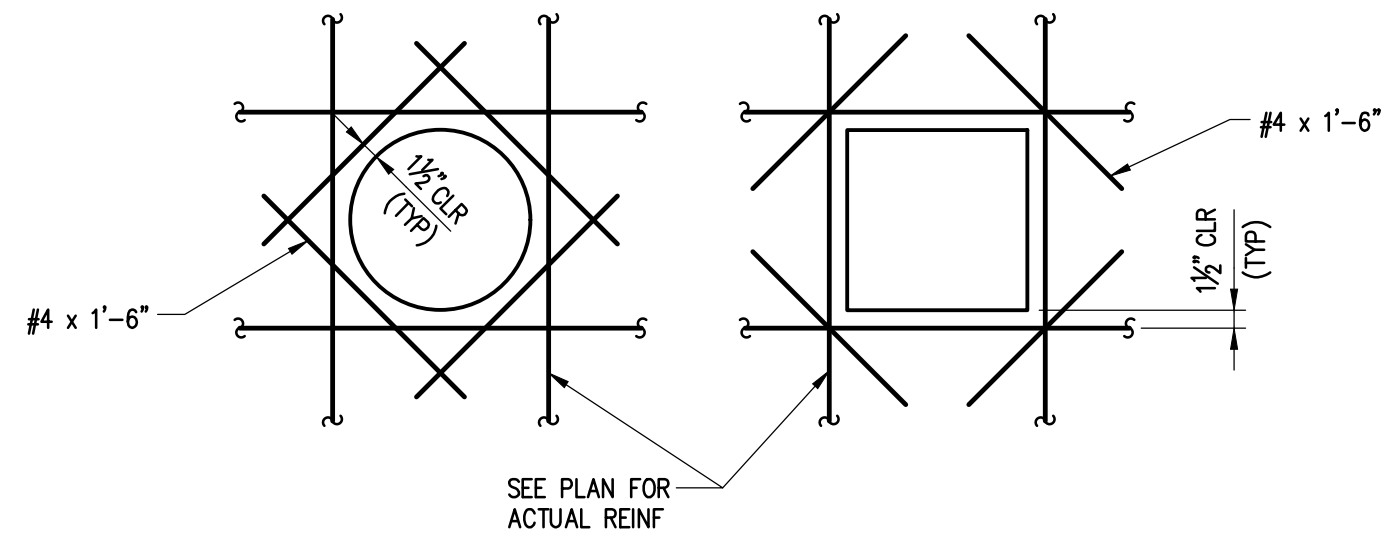
| | |
|---|---------------|
| Ø | DIAMETER |
| ° | DEGREE |
| ⬆ | ELEVATION |
| ± | PLUS OR MINUS |



TYP SHOTCRETE WALL BASE

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

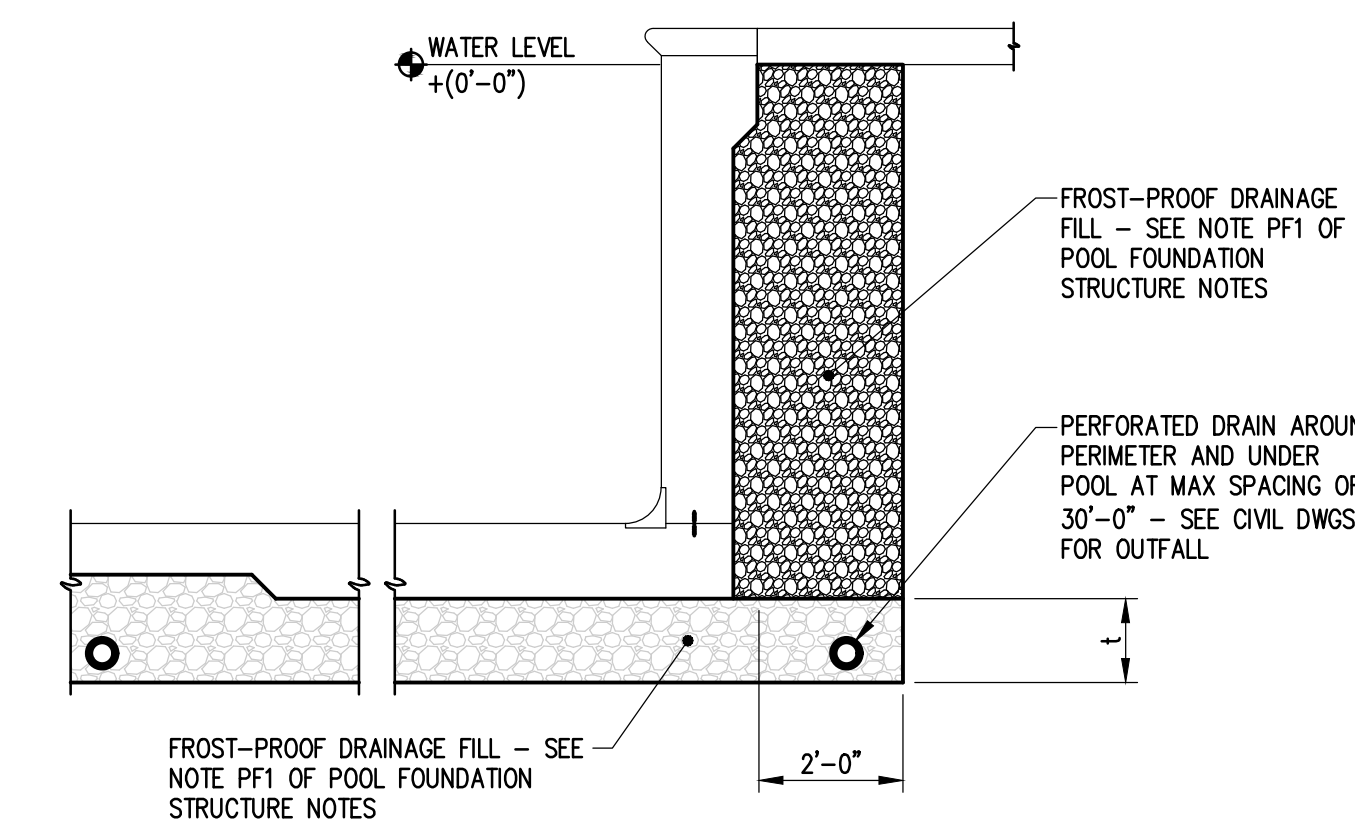
POOL-007 AQ102



TYP REINFORCING AT EMBEDDED ITEMS

SCALE: NTS

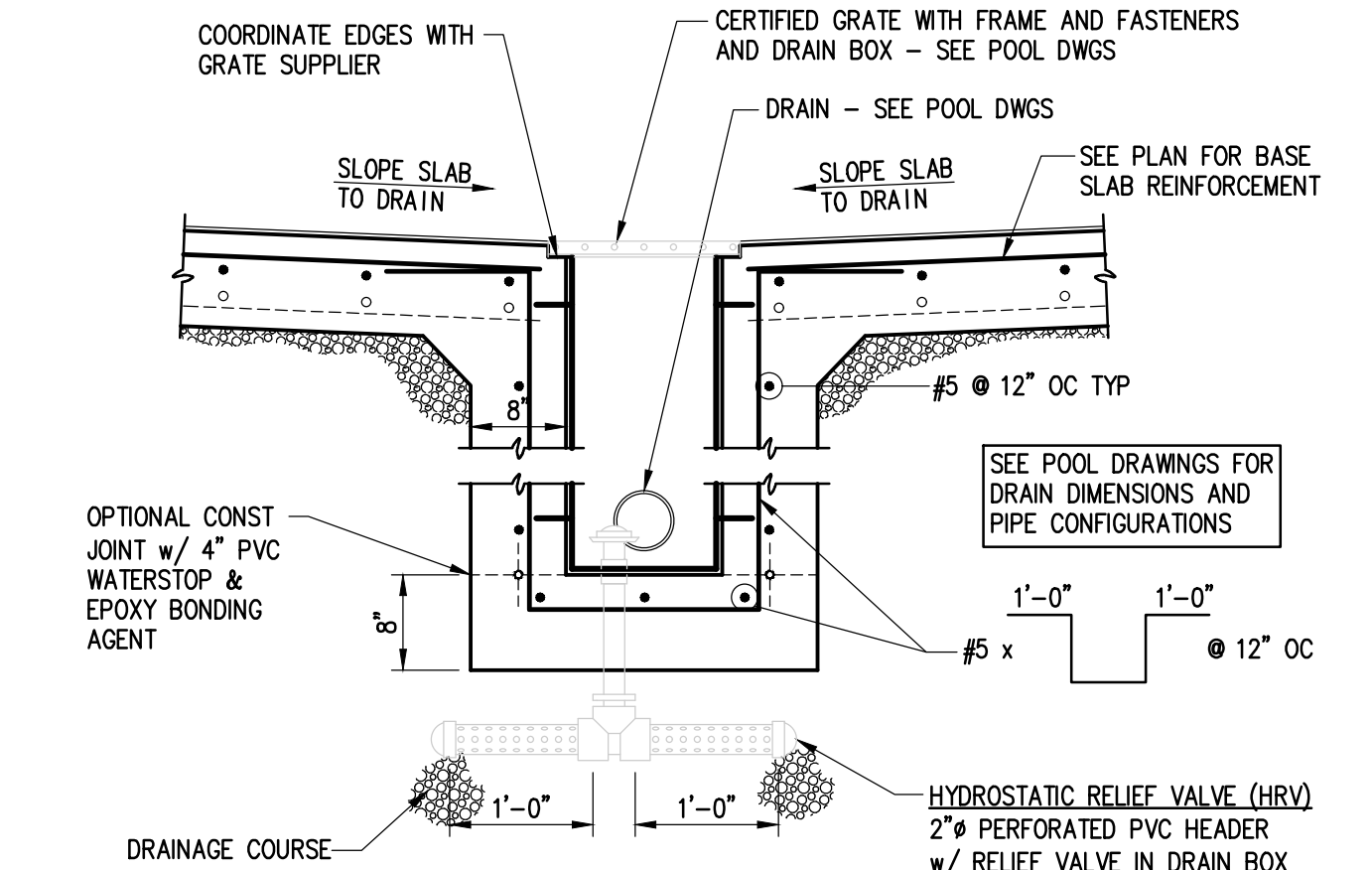
POOL-001 AQ102



TYPICAL POOL FILL

SCALE: NTS

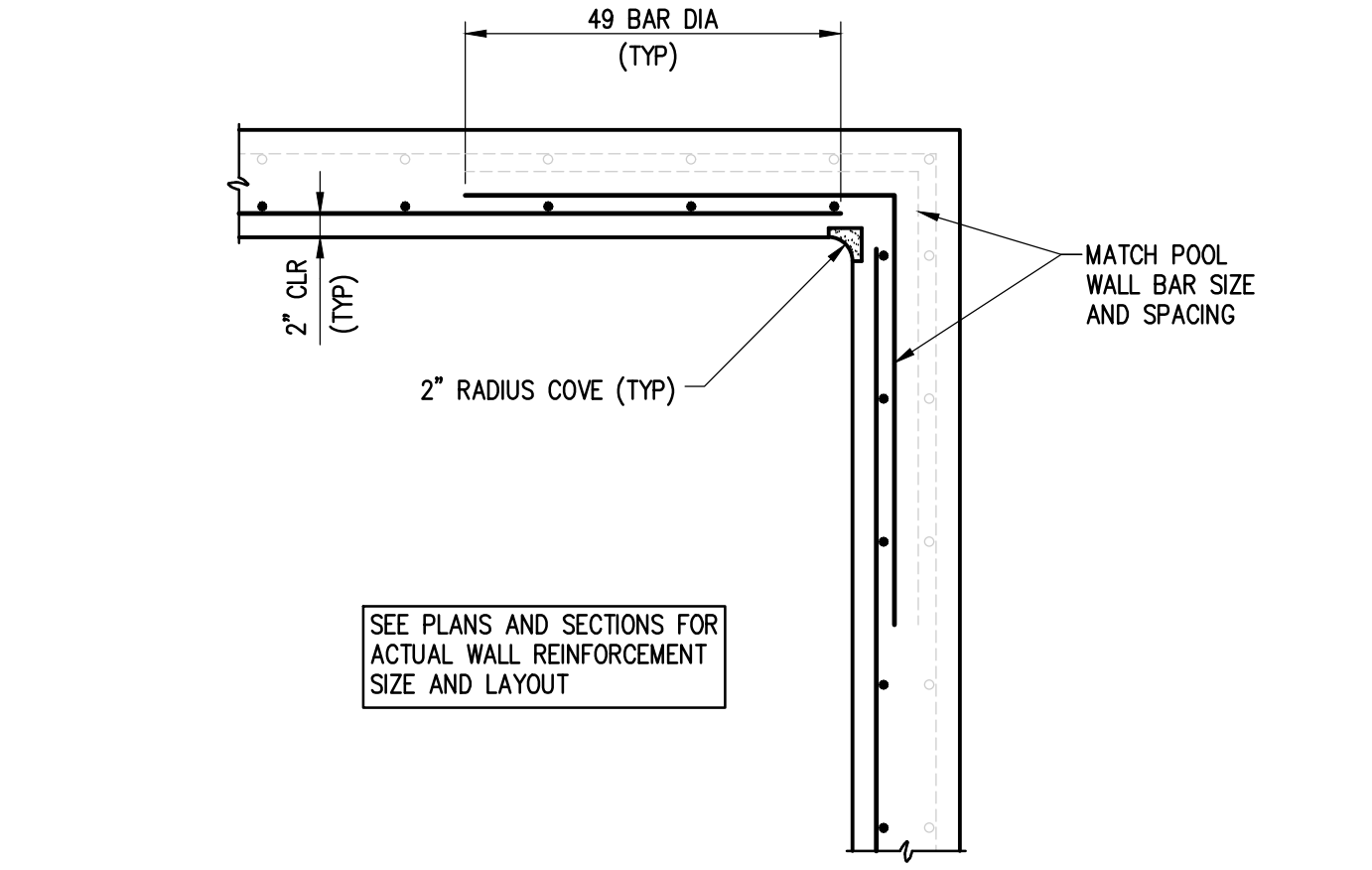
POOL-025_POOL FILL AQ102



TYPICAL DRAIN BOX DETAIL

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

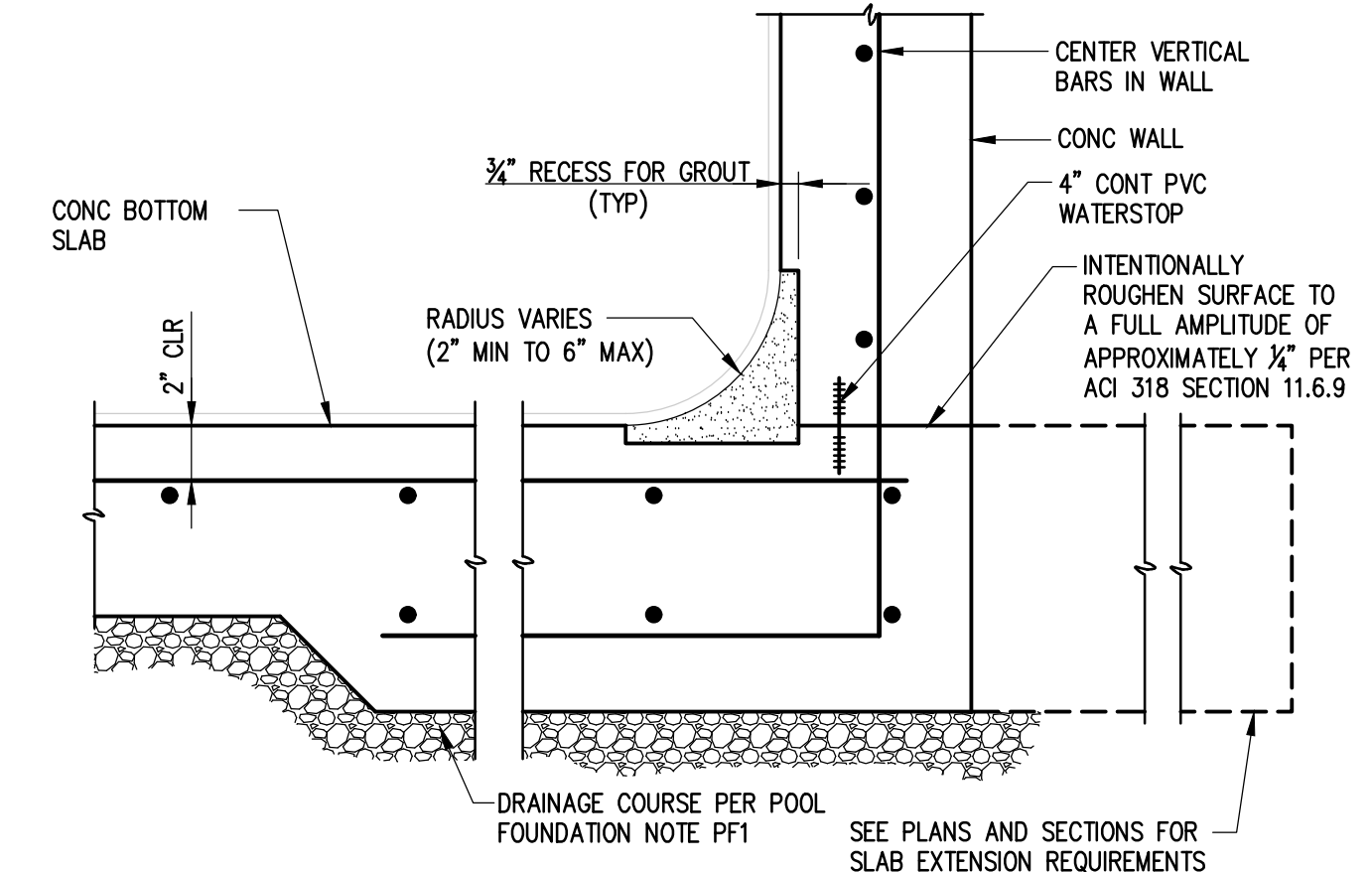
POOL-002 AQ102



TYPICAL POOL WALL CORNER DETAIL

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

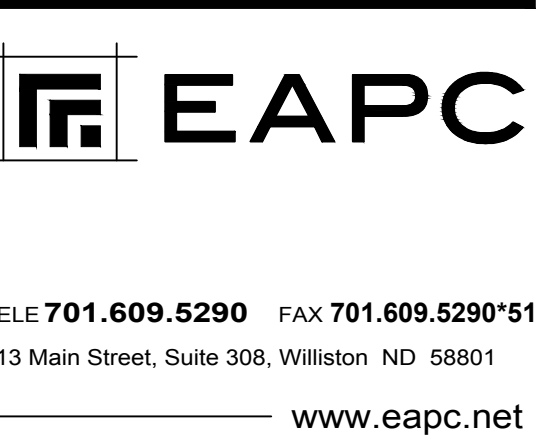
POOL-003 AQ102



TYP CAST-IN-PLACE WALL BASE

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

POOL-005 AQ102



SWIMMING POOL STRUCTURE NOTES

- PG1. Building Codes: International Building Code 2015
Concrete: American Concrete Institute ACI 318-14
American Concrete Institute ACI 350-06
- PG2. The construction documents indicate design of a completed reinforced concrete structure. The structural details have been prepared based on cast-in-place concrete methods. If alternate means and methods of concrete placement are employed that may alter the completed project, the contractor must submit proposed revisions and signed calculations to the Architect/Engineer for approval prior to fabrication or construction.
- PG3. The pool structure has been designed to withstand all anticipated loadings under both full and empty conditions in accordance with the criteria of ACI 350 for a non-jointed structure.
- PG4. During construction the pool structure should not be completely filled with water with no backfill present. If the pool is to be filled with water with no backfill, all walls greater than 6'-0" in height must be laterally braced at maximum intervals of 2'-0" on center. Lateral bracing shall be placed within 2'-0" of the top of the wall.
- PG5. The pool shell has not been designed to withstand any surcharge loading from adjacent structures. Inform engineer immediately if adjacent structures are close to the pool structure.

HYDROSTATIC RELIEF VALVES

- HV1. HRV = Hydrostatic Relief Valve.
- HV2. The hydrostatic relief valves are part of the pool shell design, and are intended to balance buoyant forces caused by groundwater that is higher than the pool bottom when the pool is empty. The hydrostatic relief valves must remain open and in operation whenever the pool is empty. If the hydrostatic relief valves are not operational, significant deflection of and damage to the pool shell structure is possible. Contractor is responsible for control of groundwater levels during construction. Refer to the project geotechnical report for additional information.

POOL SHELL AND RELATED ELEMENTS REINFORCED CONCRETE AND SHOTCRETE NOTES

- PC1. Pool base slab shall be cast-in-place concrete. Pool walls shall be either cast-in-place concrete or shotcrete (wet-mix or dry-mix).
- PC2. All concrete and shotcrete shall be 4500 psi minimum 28 day compressive strength with 6% air entrainment. Limit water to cementitious material ratio (w/c) to 0.42.
- PC3. All reinforcing steel shall be detailed, supplied and placed in accordance with these construction documents and with ACI 318, ACI 315R, and CRSI Manual of Standard Practice.
- PC4. All reinforcing steel shall be shop fabricated to conform to ASTM A615, Grade 60.
- PC5. All pool concrete shall be wet-cured using hoses and polyethylene covering.
- PC6. Reinforcing clearance: 2" Pool walls, surge tank walls
2" Pool bottom slabs, surge tank slabs
3" All surfaces cast or shot against earth
- PC7. When placing shotcrete against existing soil, overlay soil in contact with shotcrete with minimum 10 mil thick plastic sheeting prior to shooting.
- PC8. Formwork may be required for shotcrete based on base of wall configurations and wall backfill requirements. Coordinate requirements with pool structural sections and project geotechnical report.

CONSTRUCTION LOAD NOTES

- CL1. All pool structural elements have not been designed for any construction loading, including, but not limited to scaffolding, shoring, lifts, etc. It is the responsibility of the contractor to verify the pool structural elements are capable of withstanding construction loads without damage to the pool structural elements, or, performance of the in-service pool.

WATER-TIGHTNESS TESTING

- WT1. Water-tightness testing per American Concrete Institute is required. See specifications.

POOL FOUNDATION STRUCTURE

- PF1. All Slabs shall be placed on compacted, free-draining, frost-free drainage course:
Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the Modified Proctor maximum dry density (ASTM-D1557), placed in 6" to 8" lifts. Place Mirafi 140N or equivalent between drainage fill and subgrade. See project geotechnical report for further recommendations.
Drainage Course Thickness (t): 72" For water depths of 0'-0" to 3'-0"
72" For water depths greater than 3'-0"
- PF2. All pool walls shall be backfilled with compacted, free-draining, frost-free drainage fill:
Drainage Fill: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the Modified Proctor maximum dry density (ASTM-D1557), placed in 6" to 8" lifts. Place Mirafi 140N or equivalent between drainage fill and subgrade. See project geotechnical report for further recommendations.
- PF3. See project geotechnical for soil and groundwater conditions. Soil parameters listed below have been used for design of the pool structure. During construction, report any discrepancies in soil conditions to the Engineer of Record immediately.

| | |
|-----------------------------|--|
| Geotechnical report by: | American Engineering Testing, dated February 17, 2023. |
| Support Type: | Soil-supported |
| Density: | 125 pcf |
| Equivalent Fluid Pressure: | 40 psf/ft depth (active) |
| Passive Pressure: | 475 psf/ft depth |
| Groundwater: | None (underdrain system provided) |
| Frost Depth: | 6'-0" below finished grade |
| Differential Settlement: | 1/2" |
| Total Settlement: | 1" |
| Allowable Bearing Pressure: | 1800 psf |

BAR DEVELOPMENT & SPLICE LENGTHS

| BAR | TENSION DEVELOPMENT | | SPLICES | |
|-----|---------------------|-------|-----------|-------|
| | TOP BAR * | OTHER | TOP BAR * | OTHER |
| #3 | 19" | 15" | 25" | 19" |
| #4 | 25" | 19" | 33" | 25" |
| #5 | 31" | 24" | 41" | 31" |
| #6 | 37" | 29" | 49" | 37" |
| #7 | 54" | 42" | 71" | 54" |
| #8 | 62" | 48" | 81" | 62" |
| #9 | 70" | 54" | 91" | 70" |
| #10 | 79" | 61" | 102" | 79" |
| #11 | 87" | 67" | 114" | 87" |

* USE TOP BAR LENGTHS WHEN BARS ARE PLACED SUCH THAT THERE IS MORE THAN 1'-0" OF CONCRETE BELOW BAR



CLIENT

WILLISTON COMMUNITY BUILDERS

**PROJECT DESCRIPTION
WILLISTON WATER WORLD**

**CITY WILLISTON
STATE NORTH DAKOTA**

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**DRAWING TITLE
POOL STRUCTURAL DETAILS**

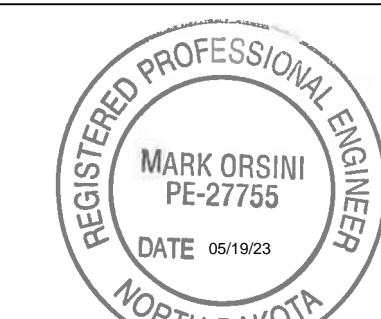
AQ102

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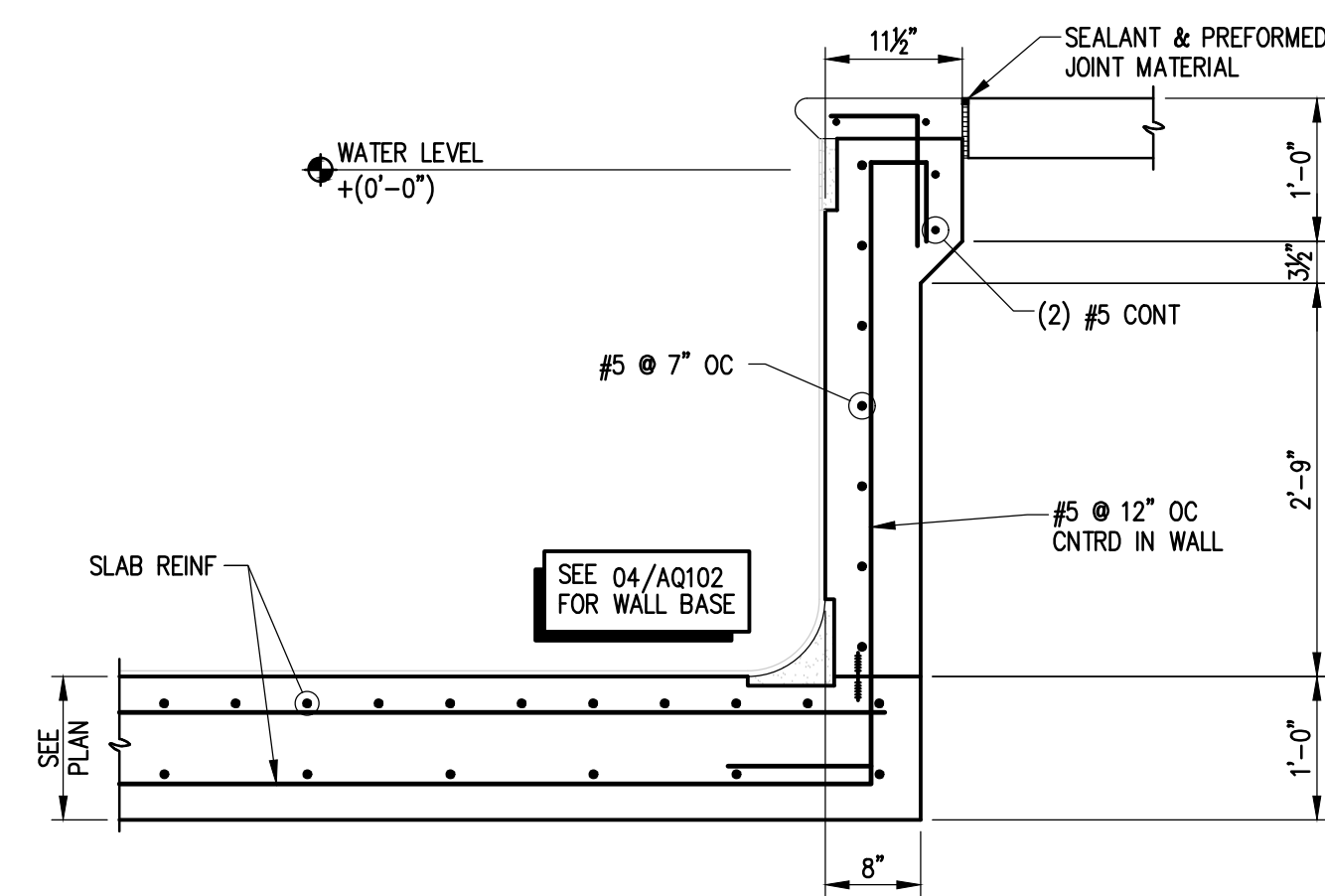
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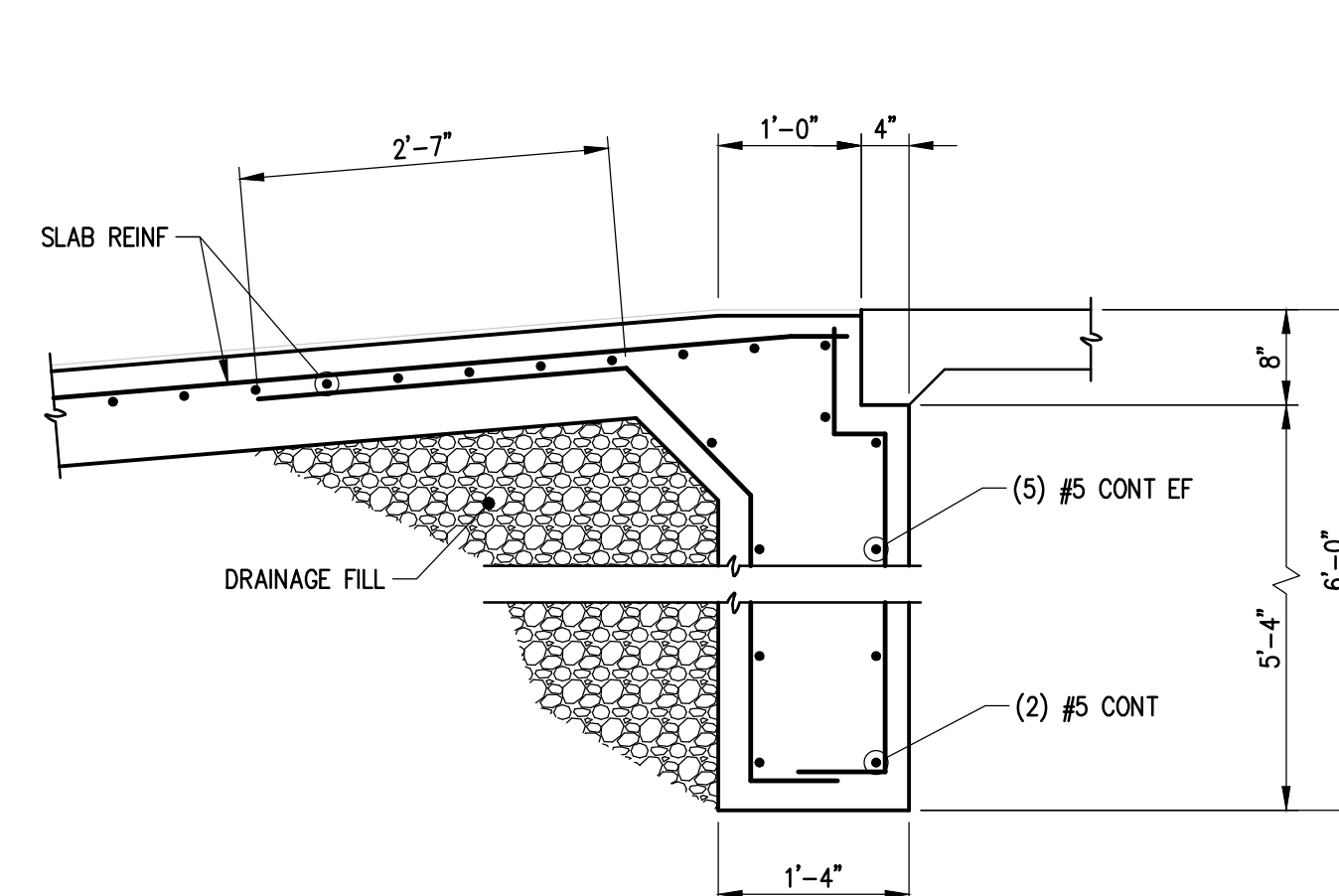


DRAWING TITLE
POOL STRUCTURAL SECTIONS

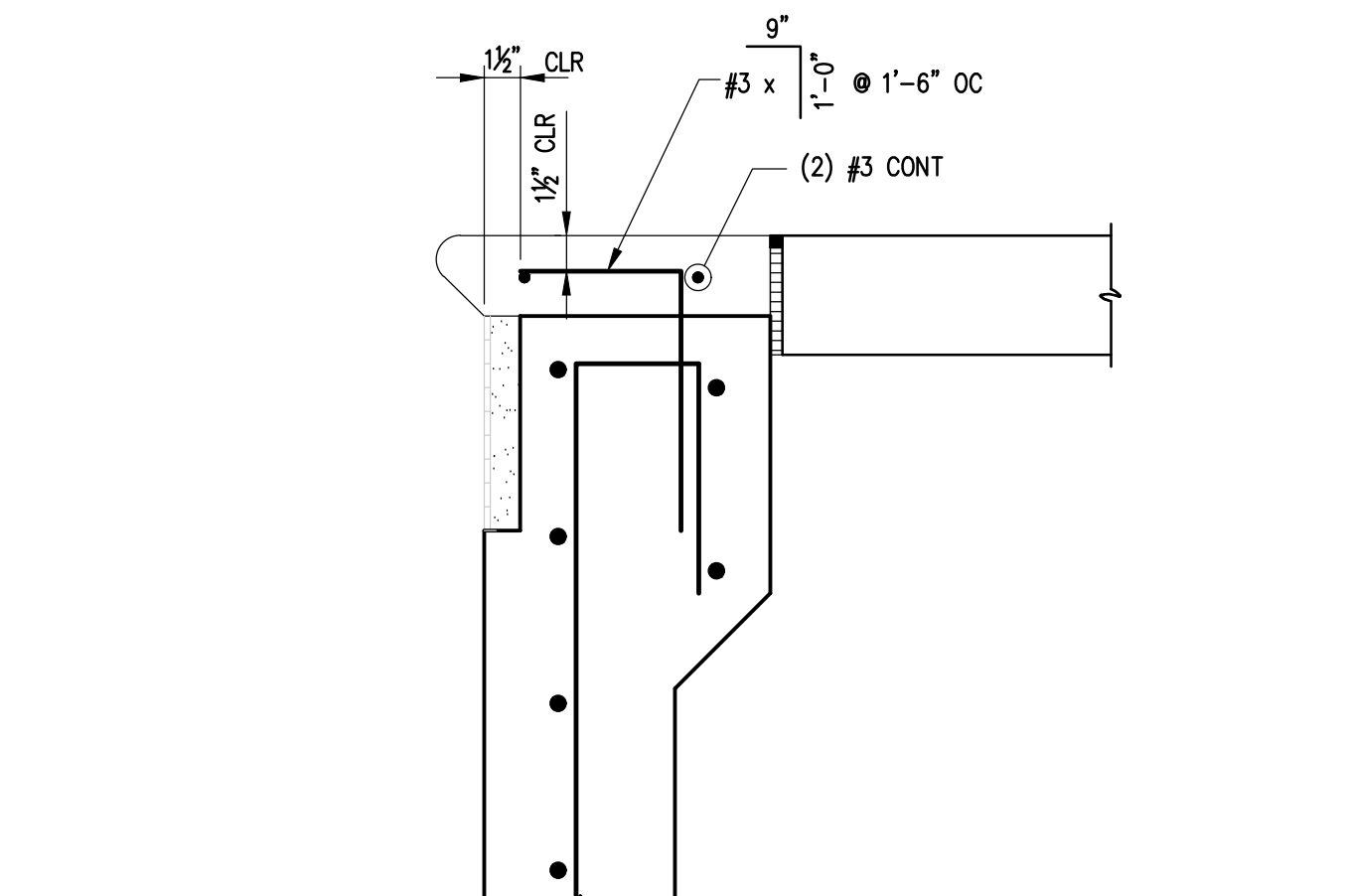
AQ103



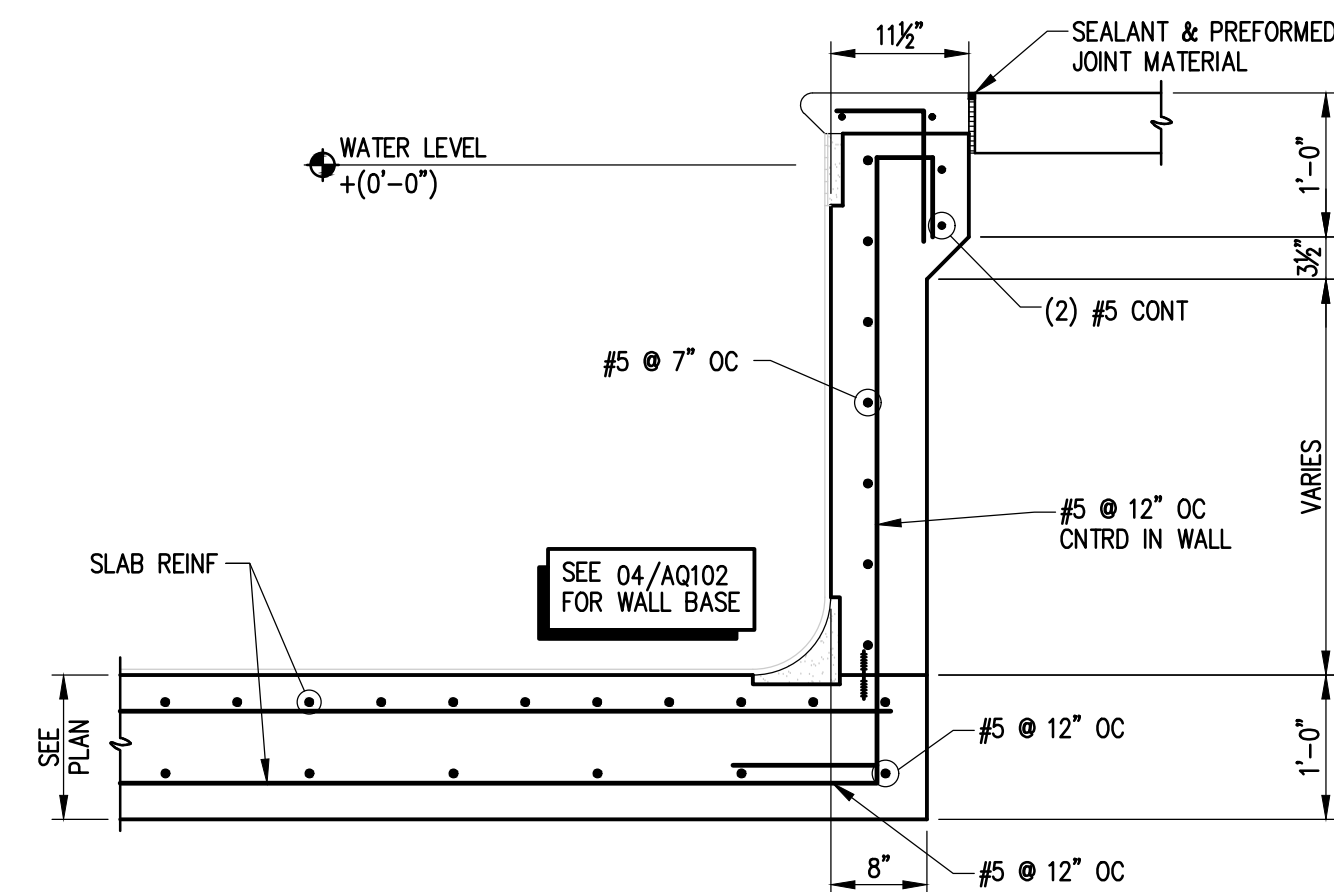
SECTION 11
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DET007_7020.0188 AQ103



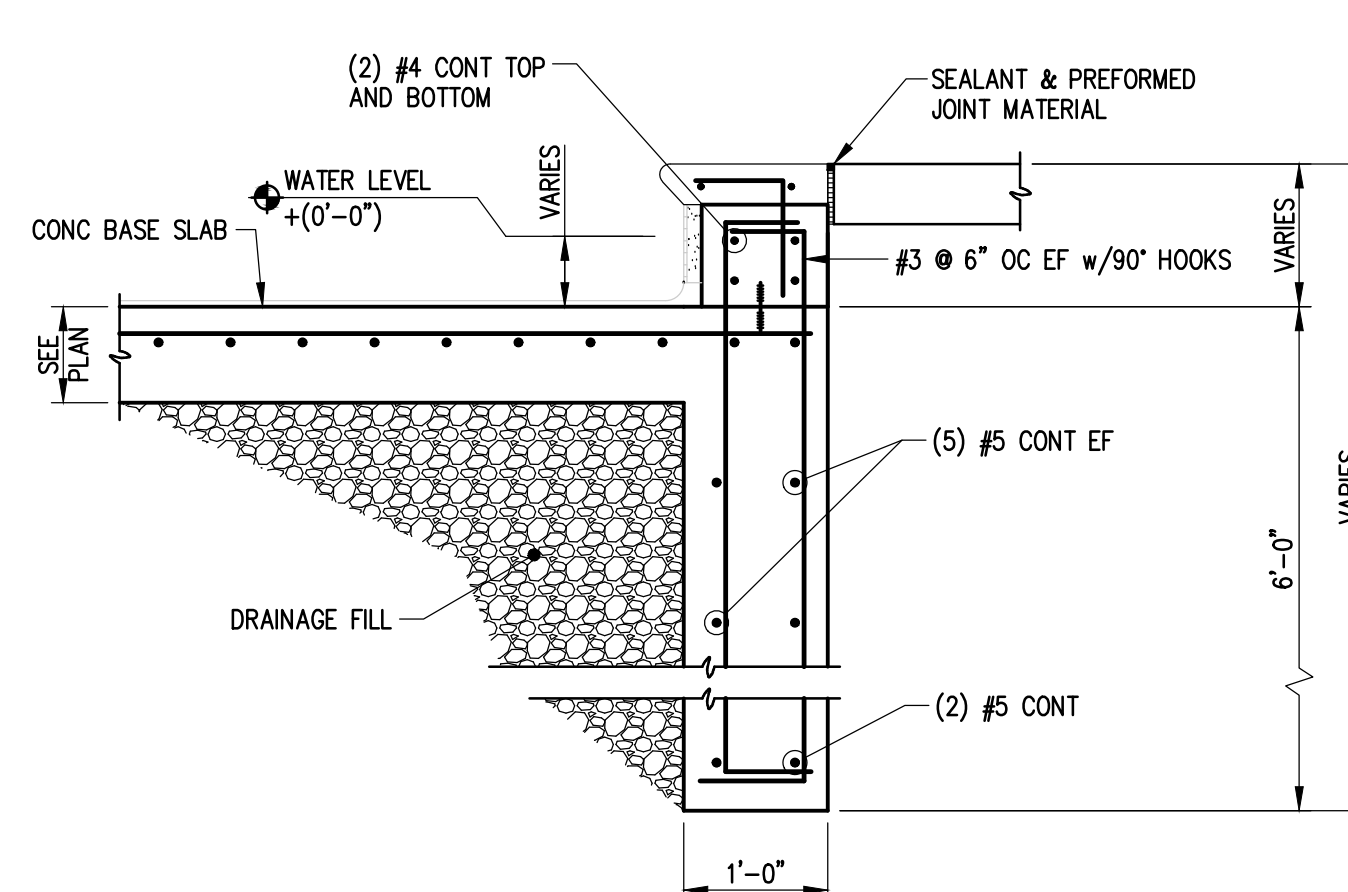
SECTION 07
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DET034_7020.0188 AQ103



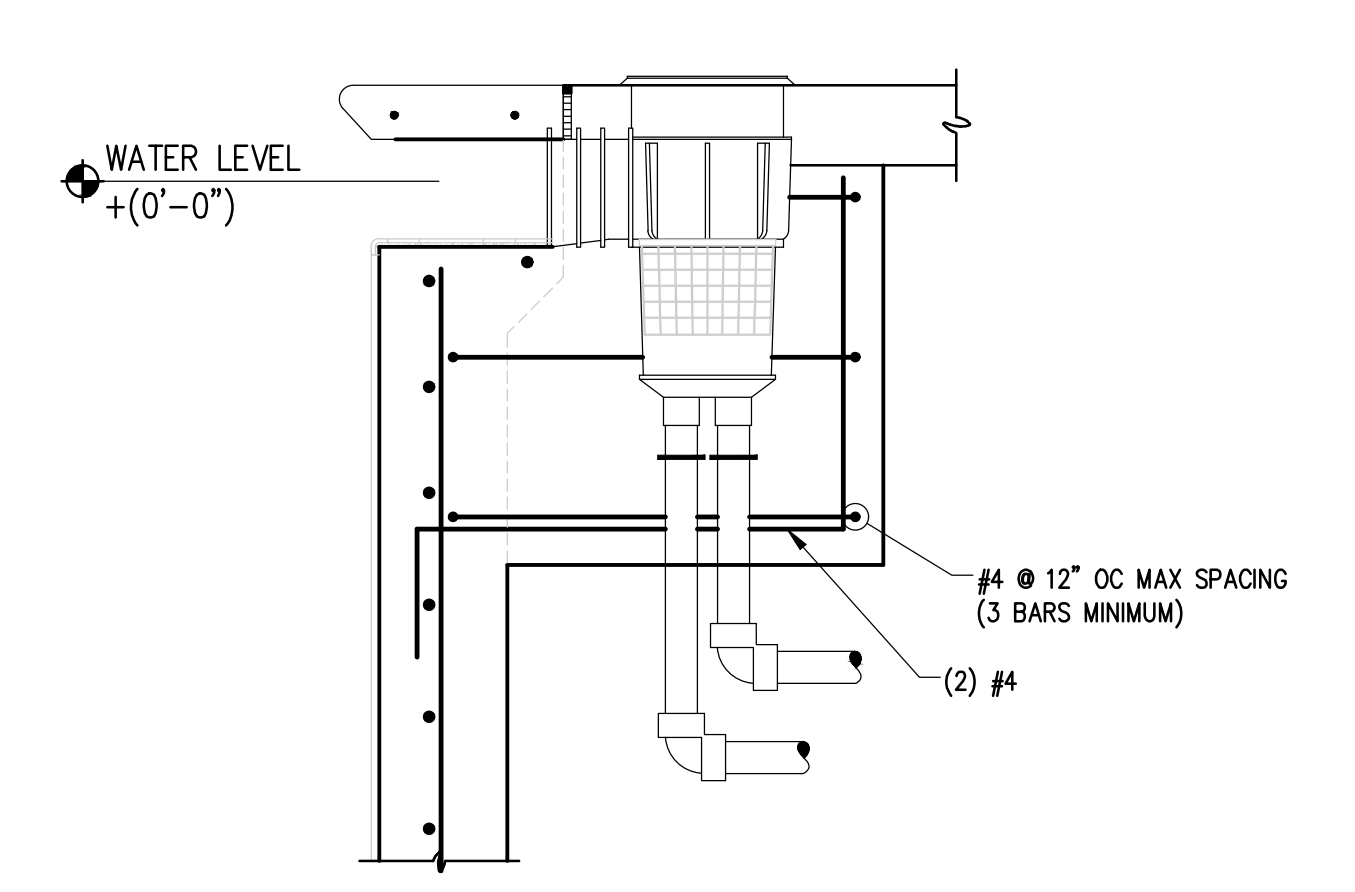
TYPICAL COPING REINFORCEMENT 04
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POOL-021 AQ103



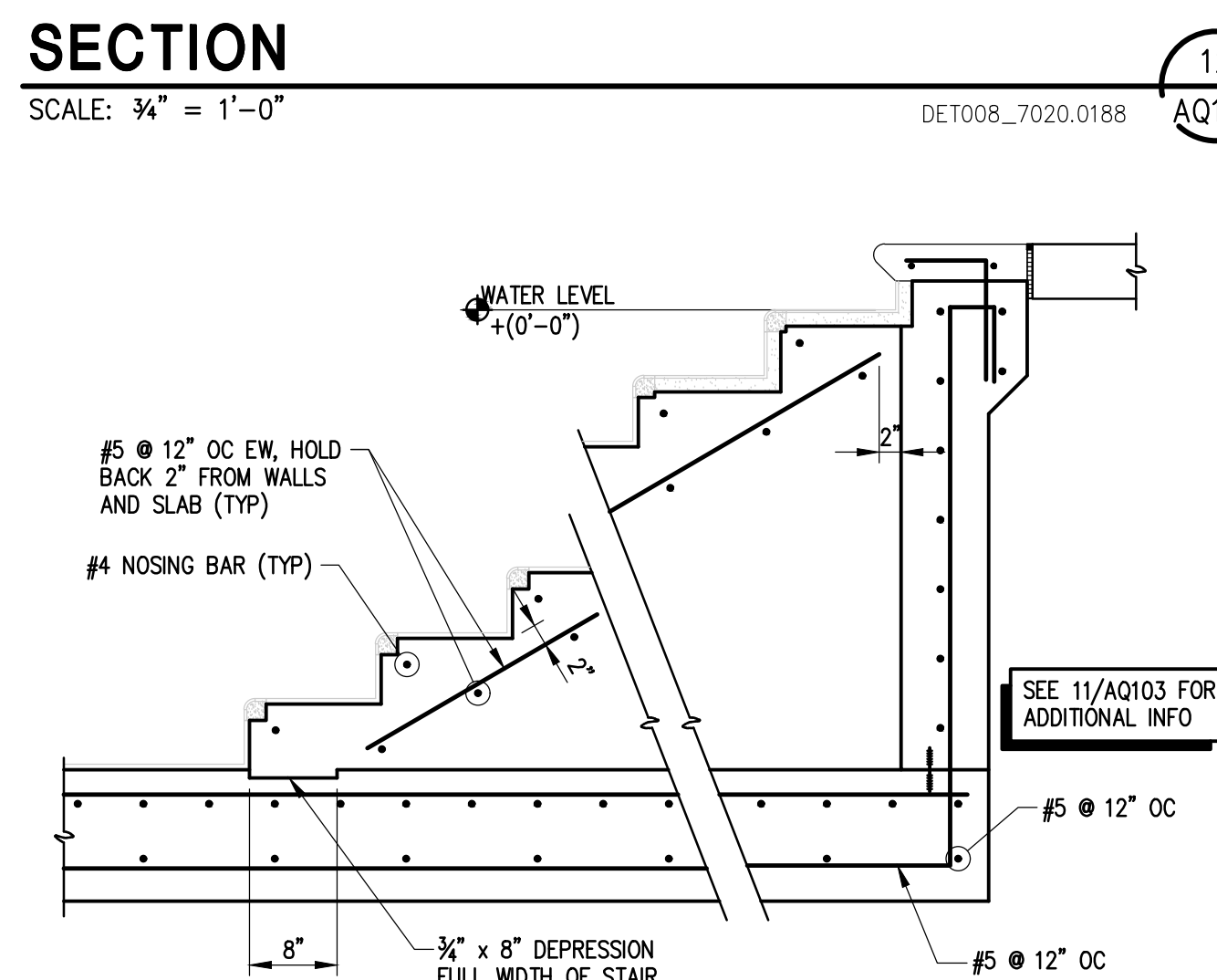
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DET008_7020.0188 AQ103



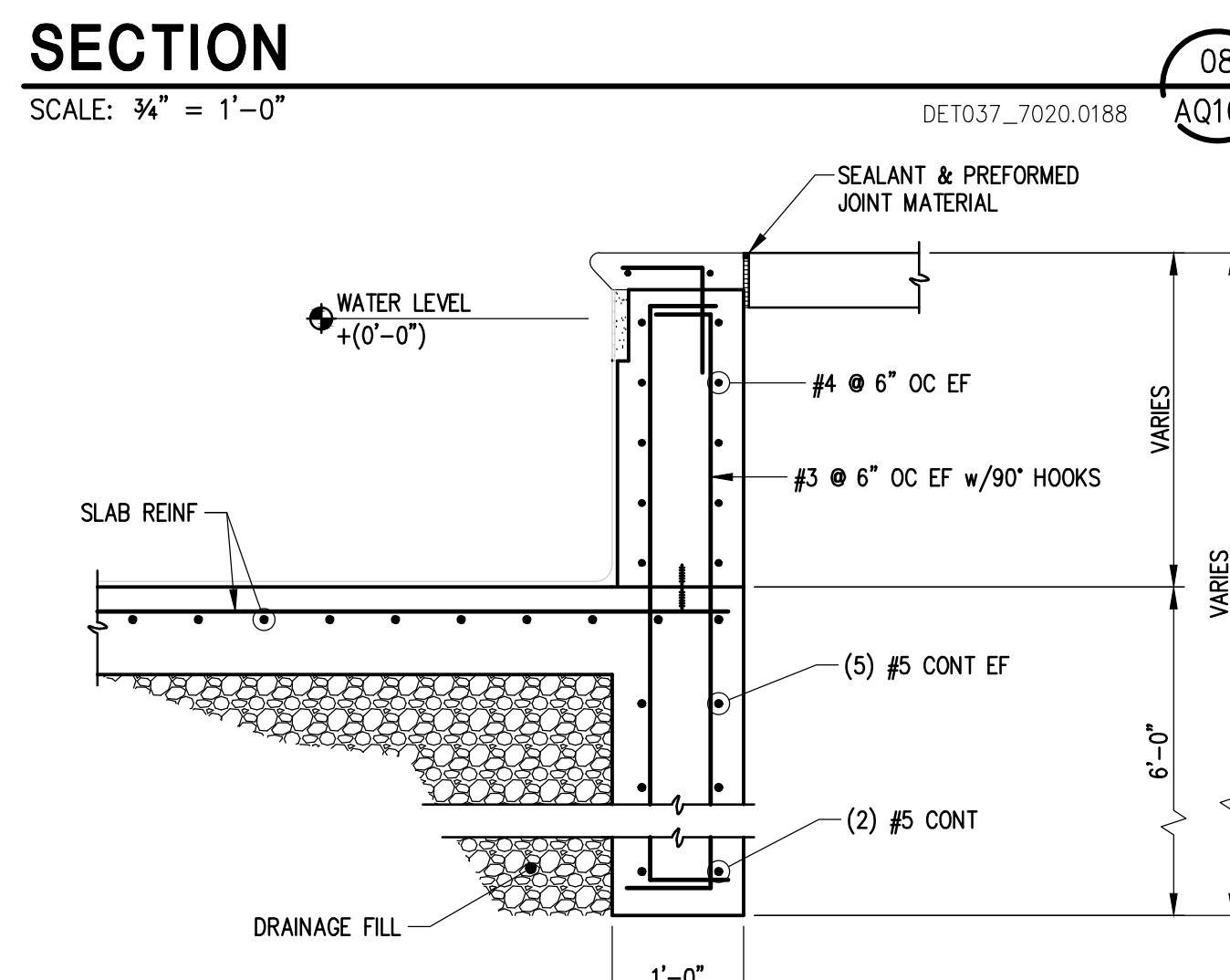
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DET037_7020.0188 AQ103



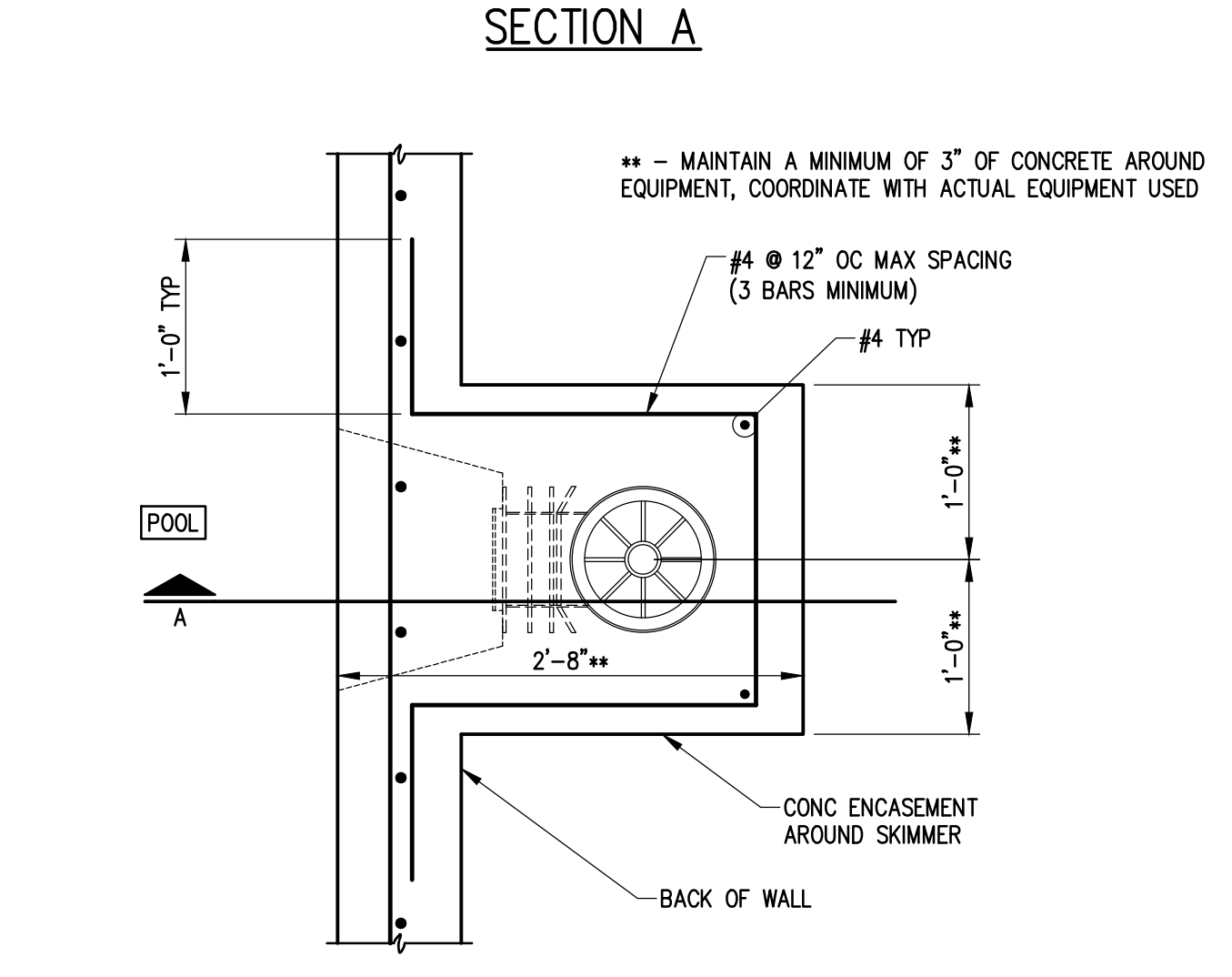
SECTION A 01
SCALE: 3/4" = 1'-0"
POOL-014 AQ103



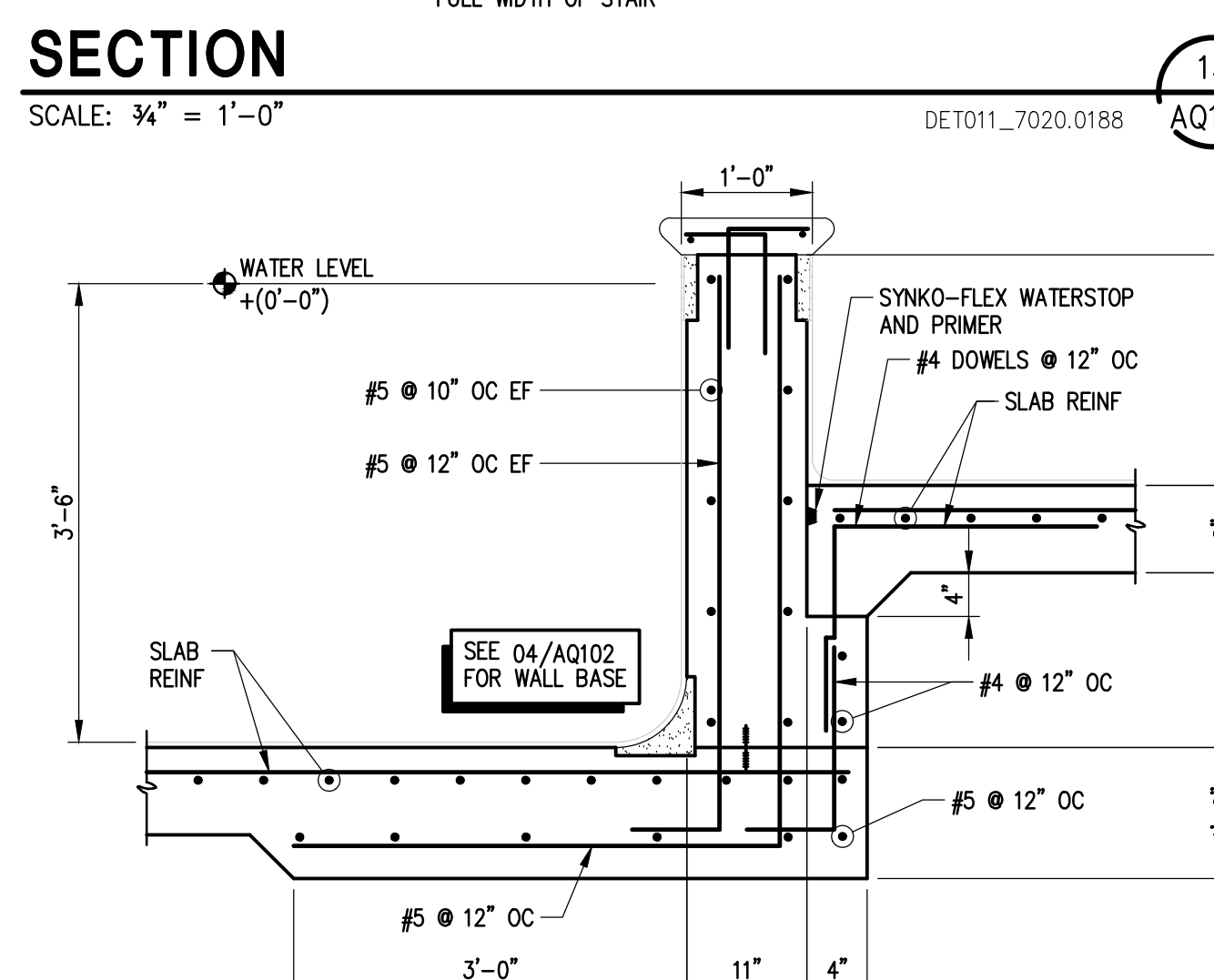
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SCALE: 3/4" = 1'-0"
DET011_7020.0188 AQ103



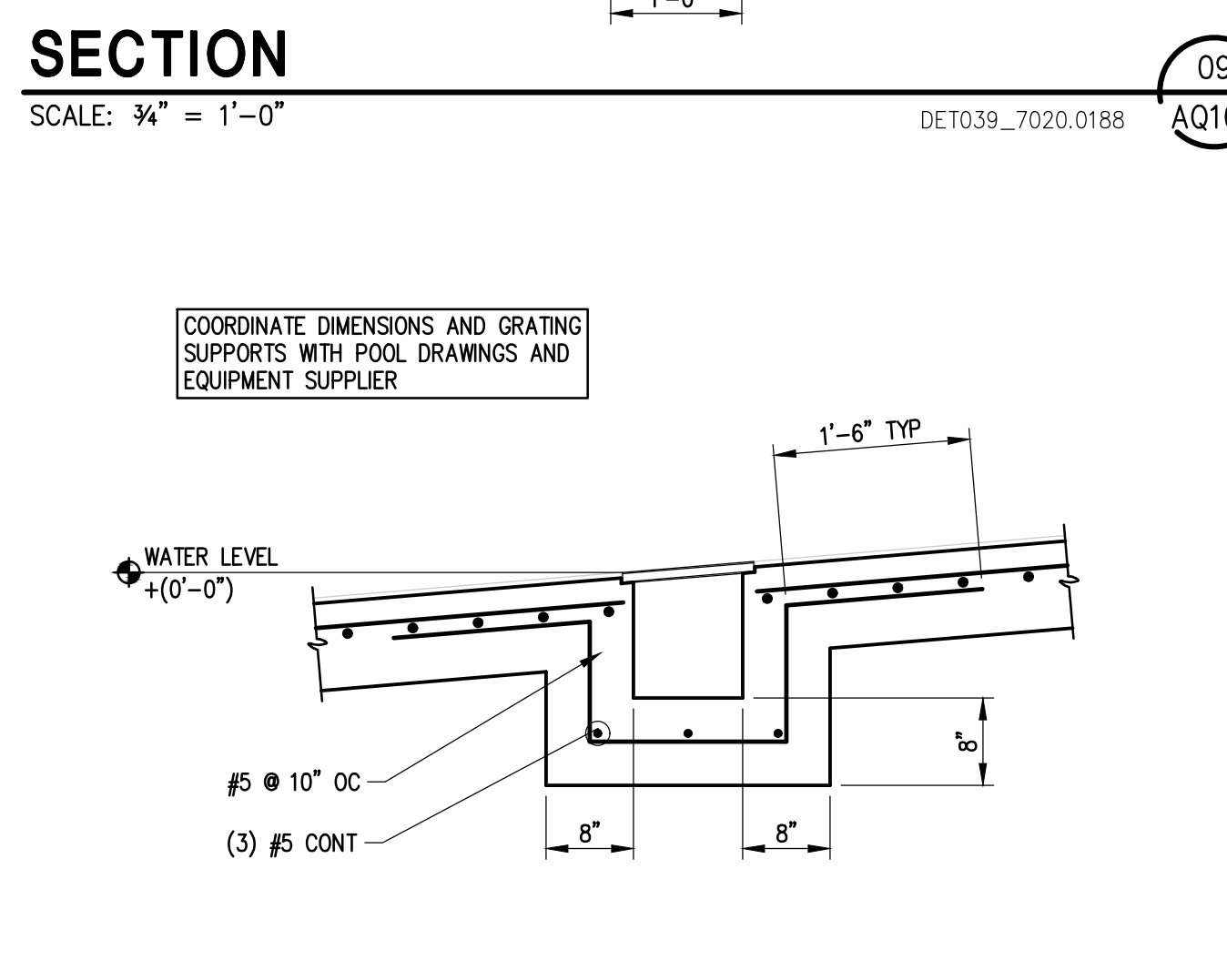
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DET039_7020.0188 AQ103



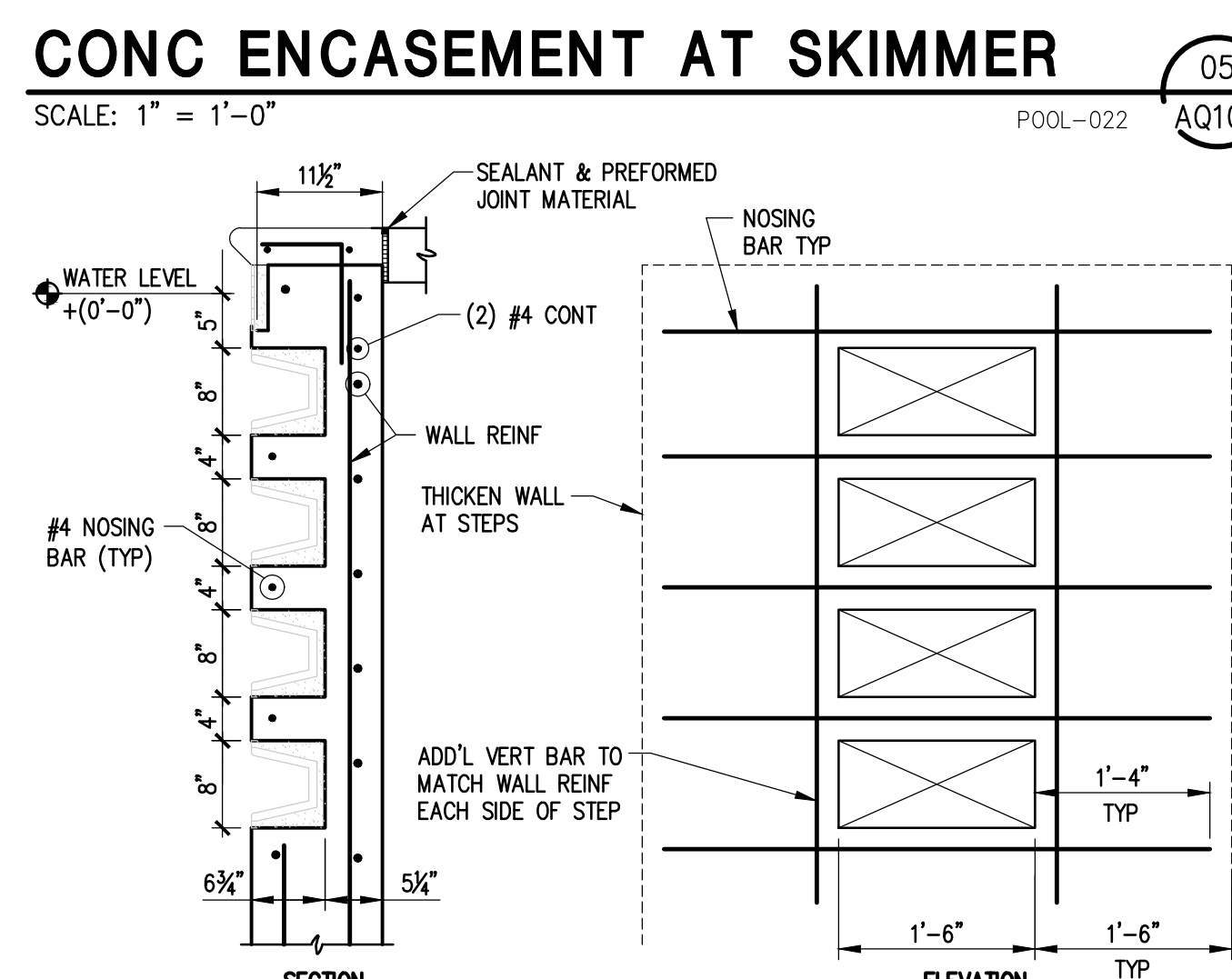
CONC ENCASEMENT AT SKIMMER 05
SCALE: 1" = 1'-0"
POOL-022 AQ103



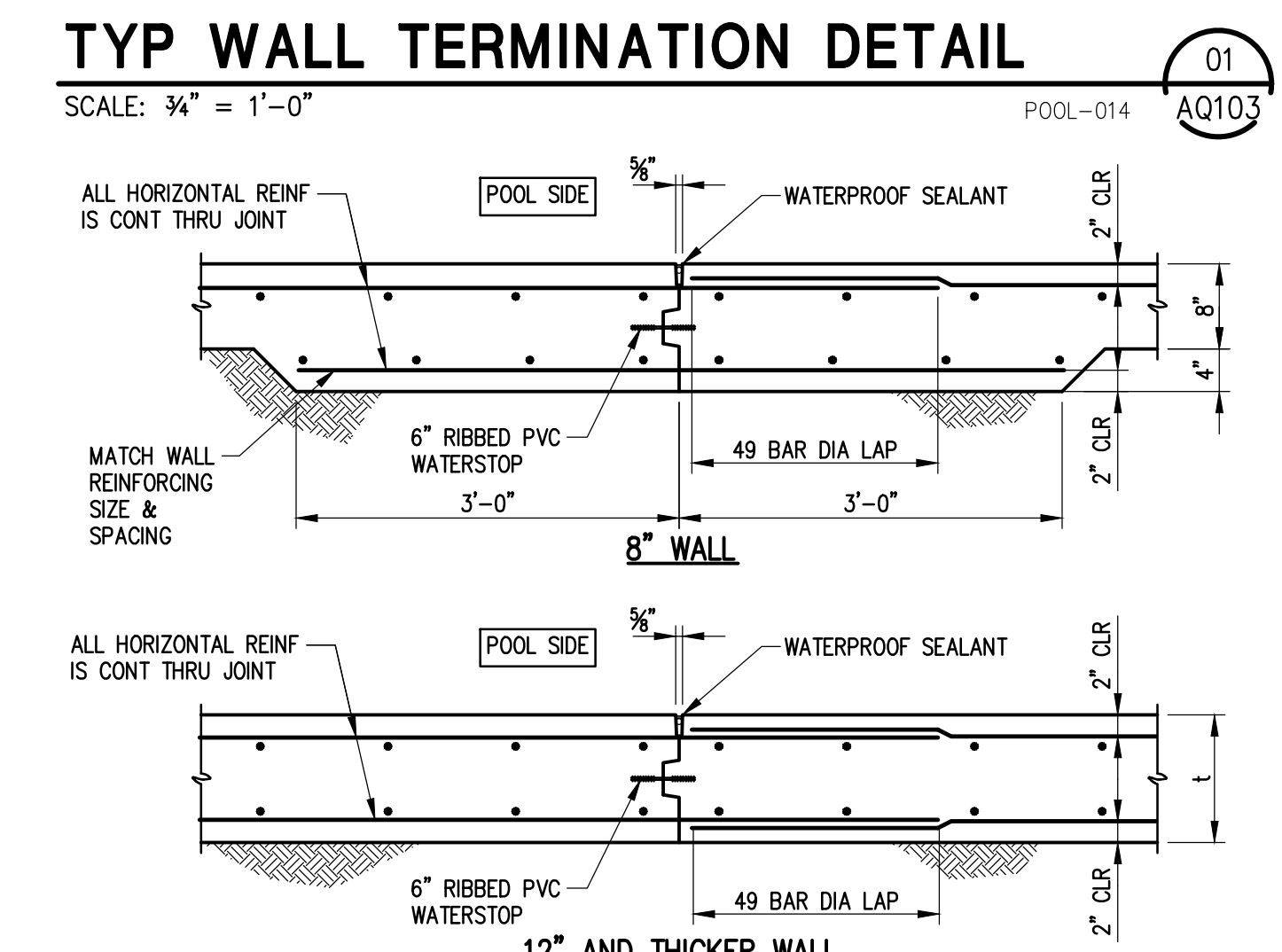
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DET019_7020.0188 AQ103



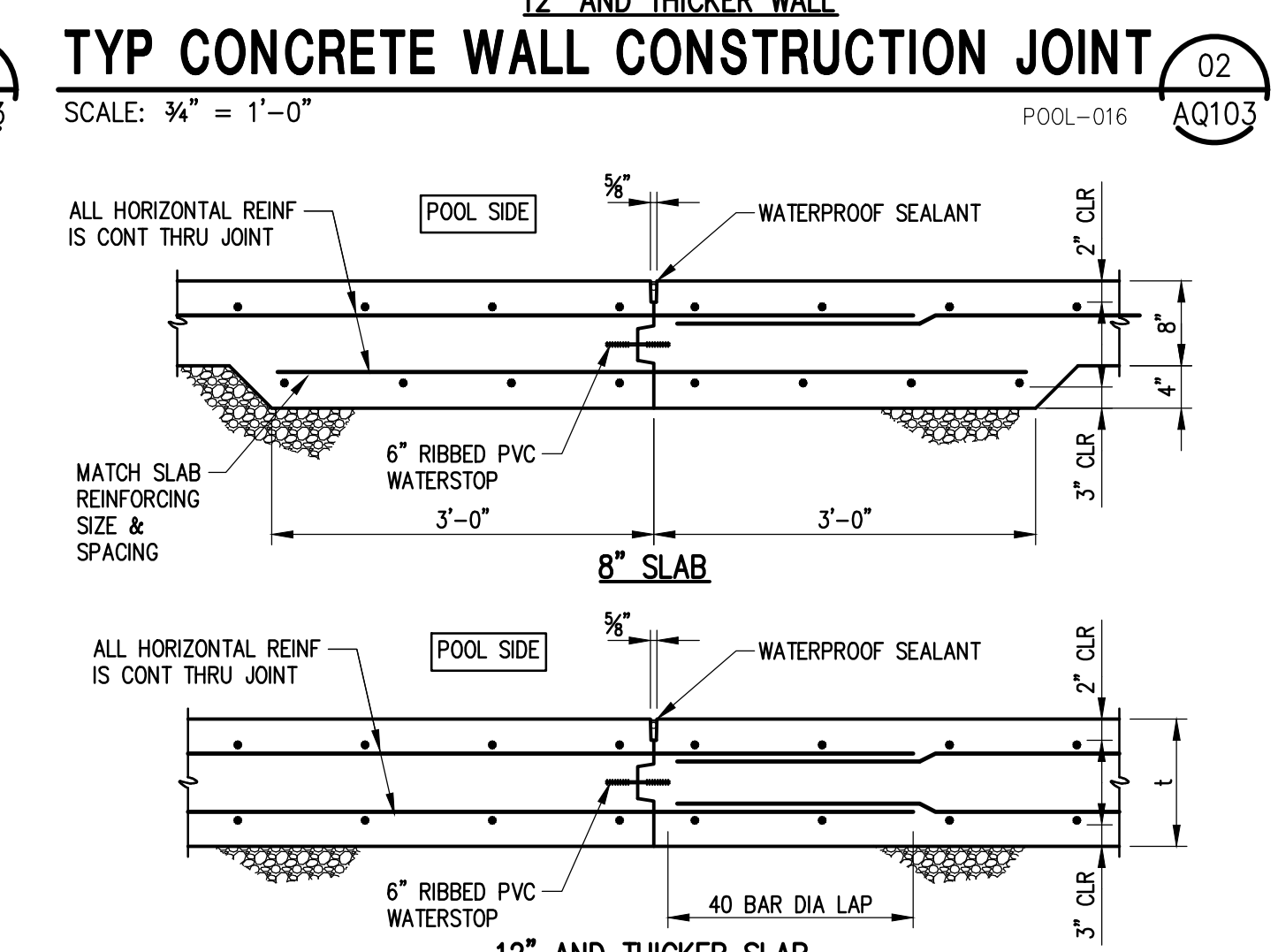
SECTION 10
SCALE: 3/4" = 1'-0"
DET015_7020.0188 AQ103



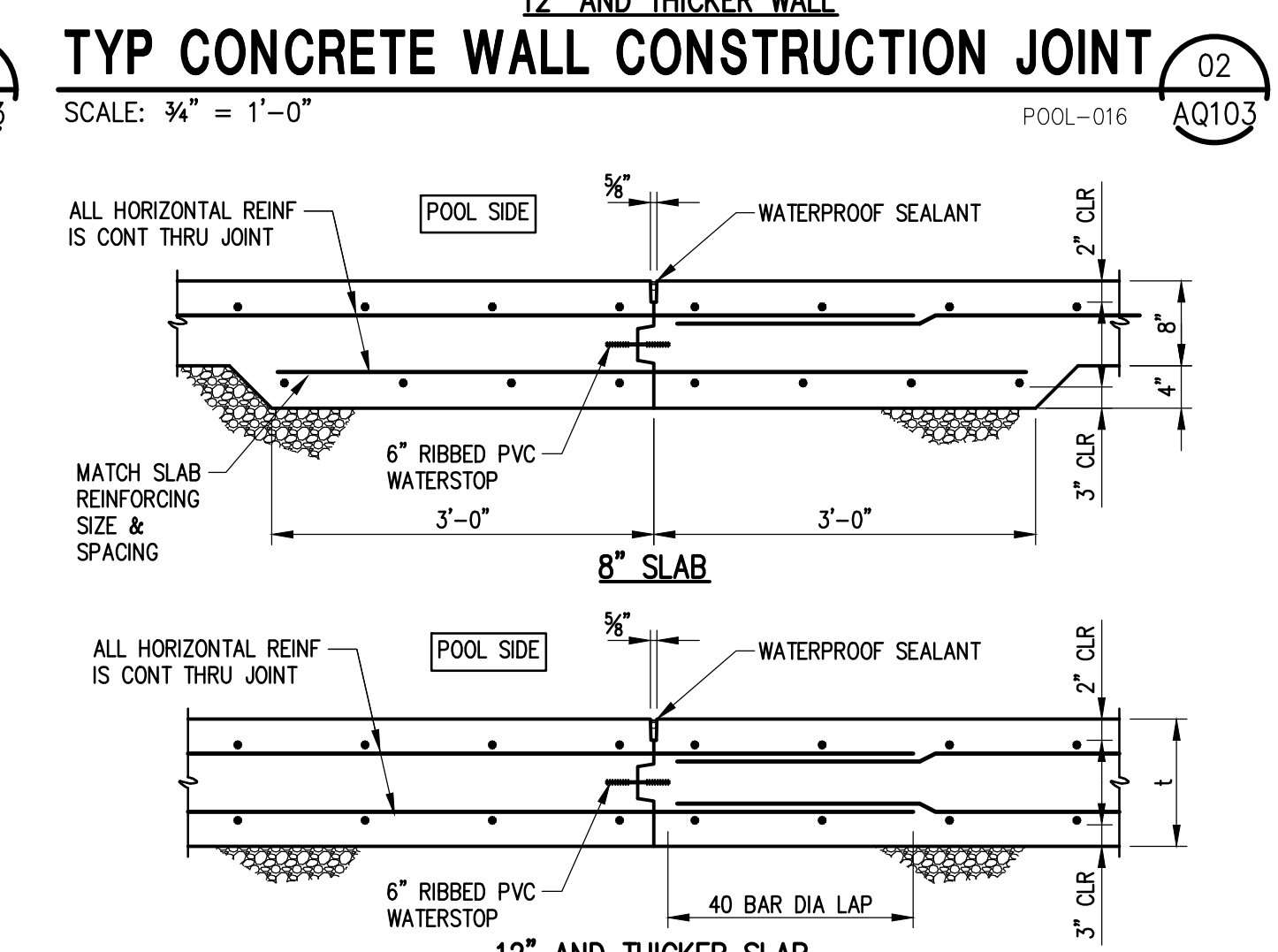
SECTION 06
SCALE: NTS
DET006_7020.0188 AQ103



TYP WALL TERMINATION DETAIL 01
SCALE: 3/4" = 1'-0"
POOL-014 AQ103



TYP CONCRETE WALL CONSTRUCTION JOINT 02
SCALE: 3/4" = 1'-0"
POOL-016 AQ103



TYP POOL SLAB CONSTRUCTION JOINT 03
SCALE: NTS
POOL-017 AQ103



CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY WILLISTON
STATE NORTH DAKOTA

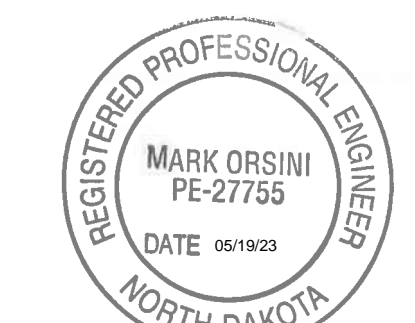
ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
DRAWN BY: KLT
CHECKED BY: TMM

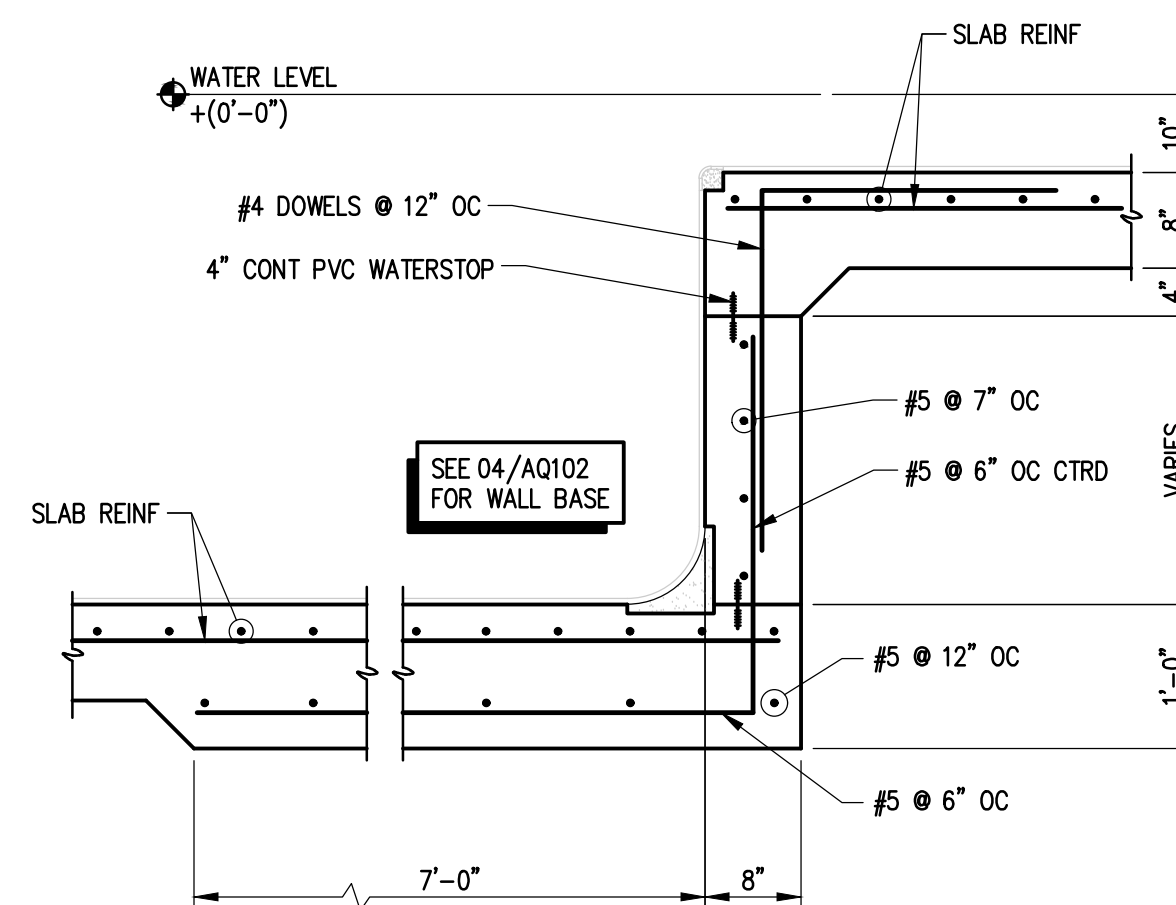
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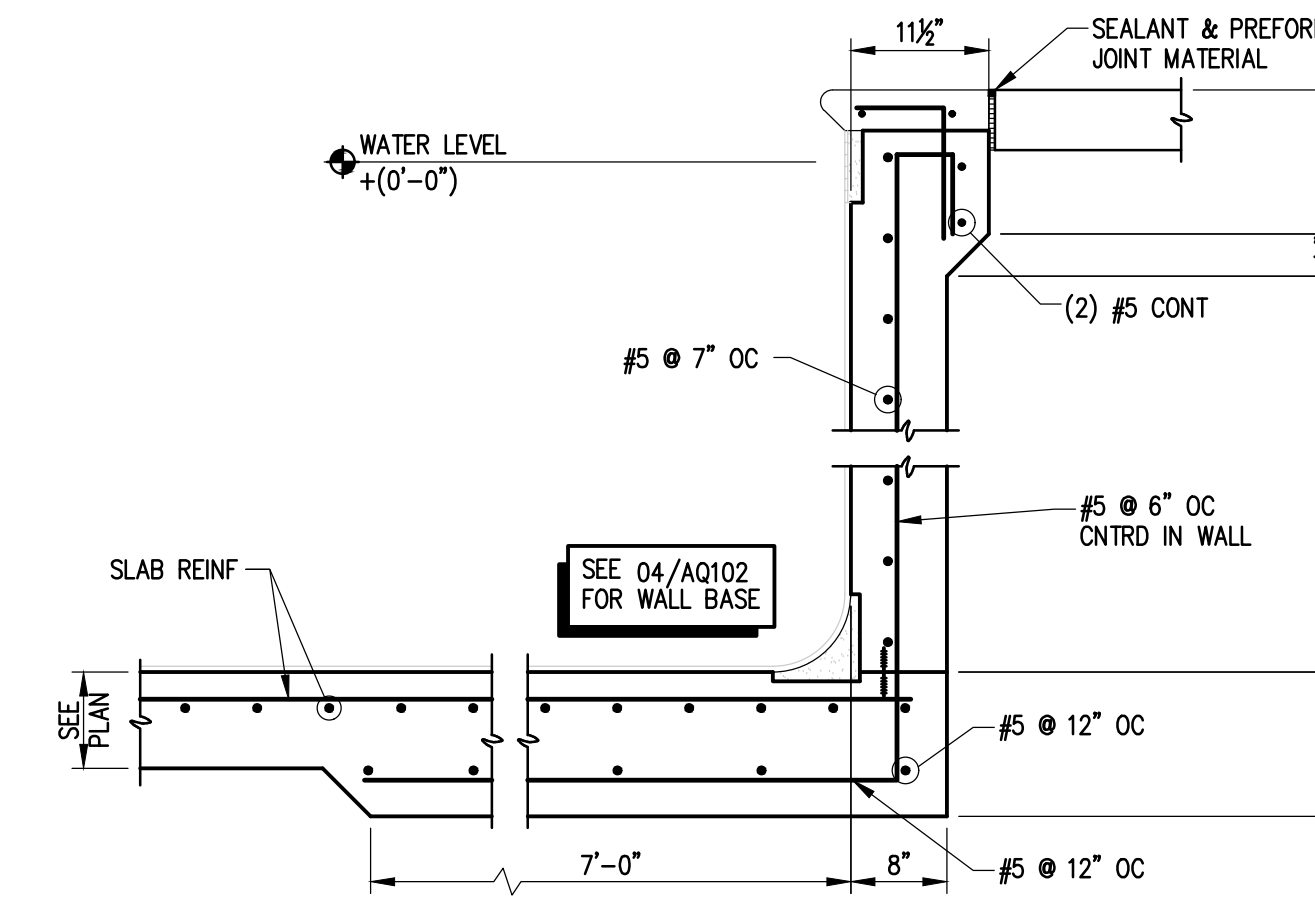


DRAWING TITLE
POOL STRUCTURAL SECTIONS

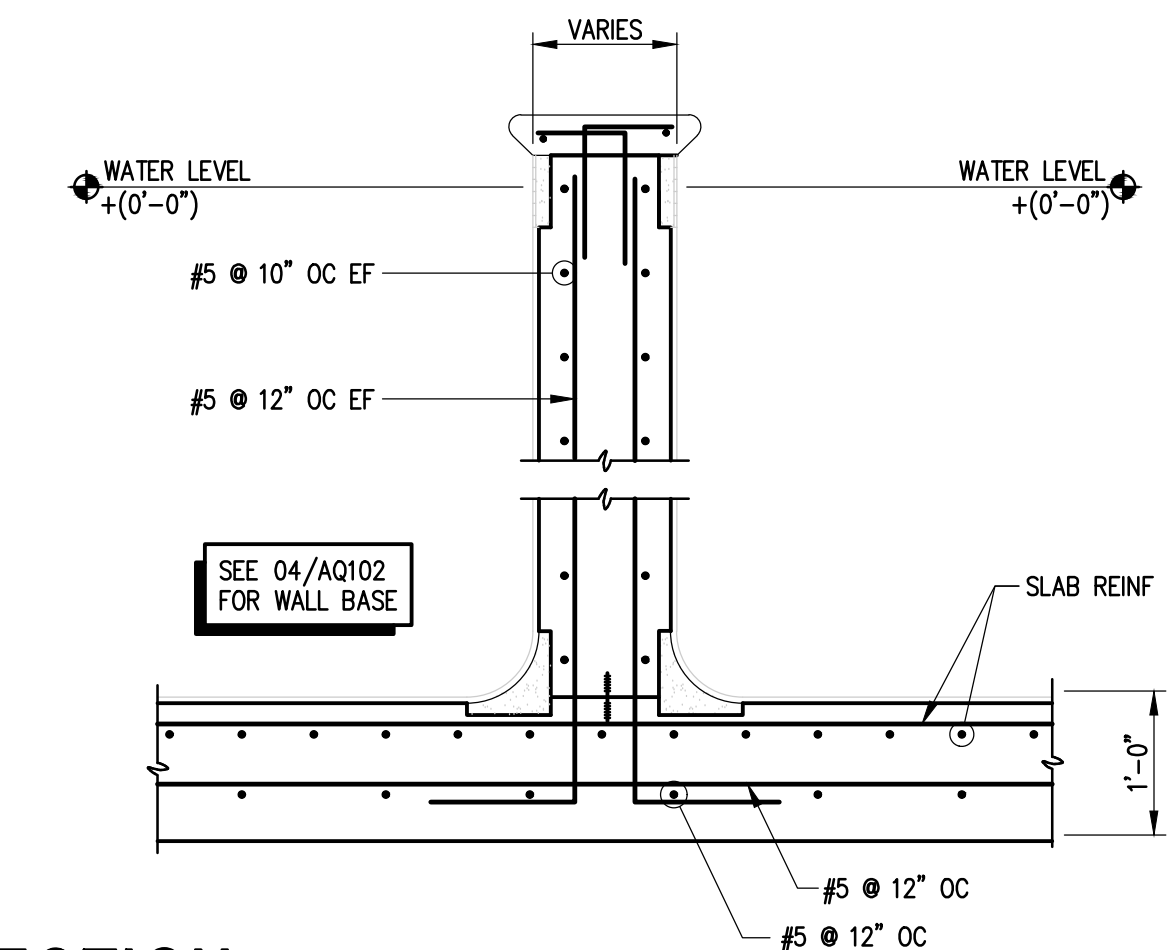
AQ104



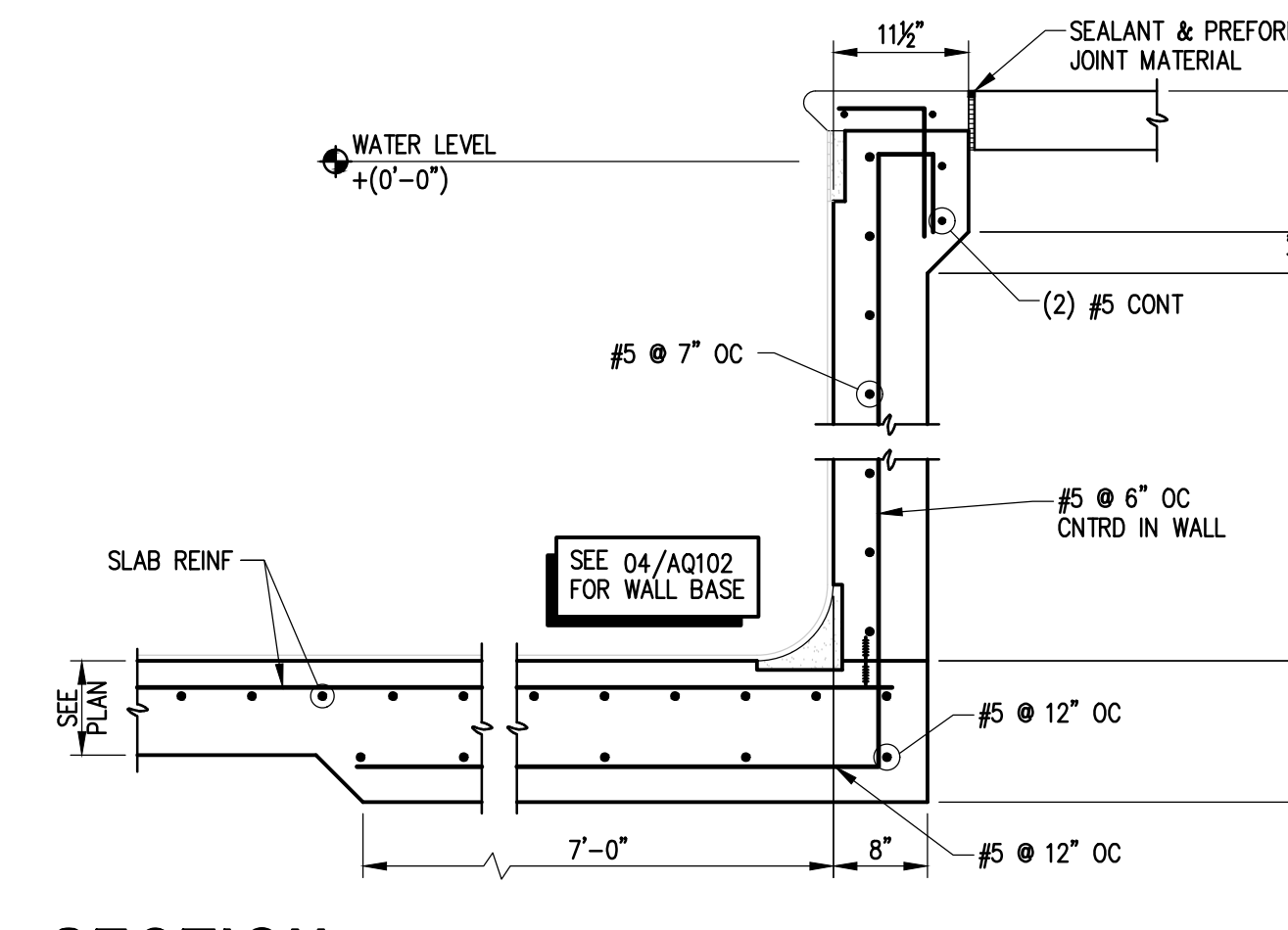
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DET016_7020.0188 AQ104



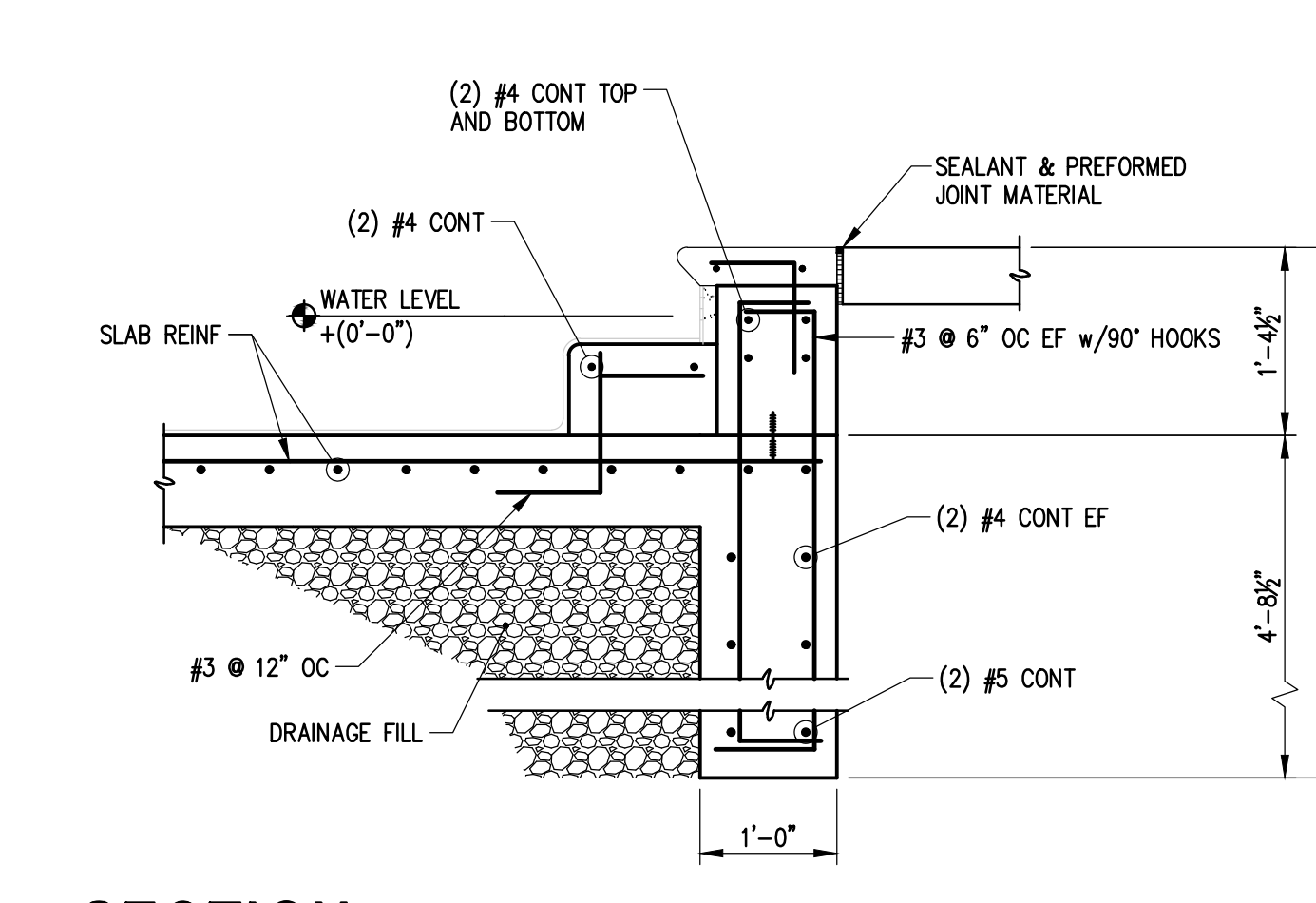
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SCALE: NTS
DET012_7020.0188 AQ104



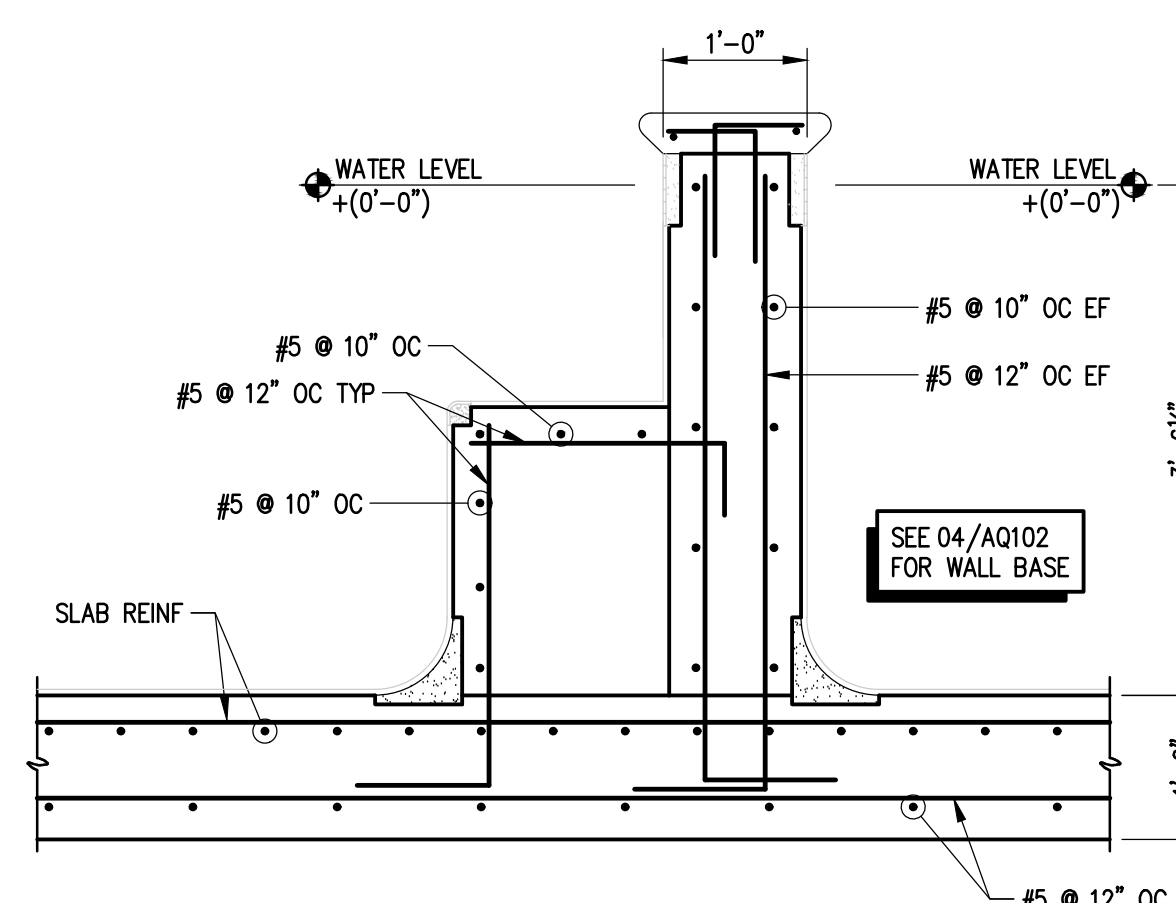
SECTION 09
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DET017_7020.0188 AQ104



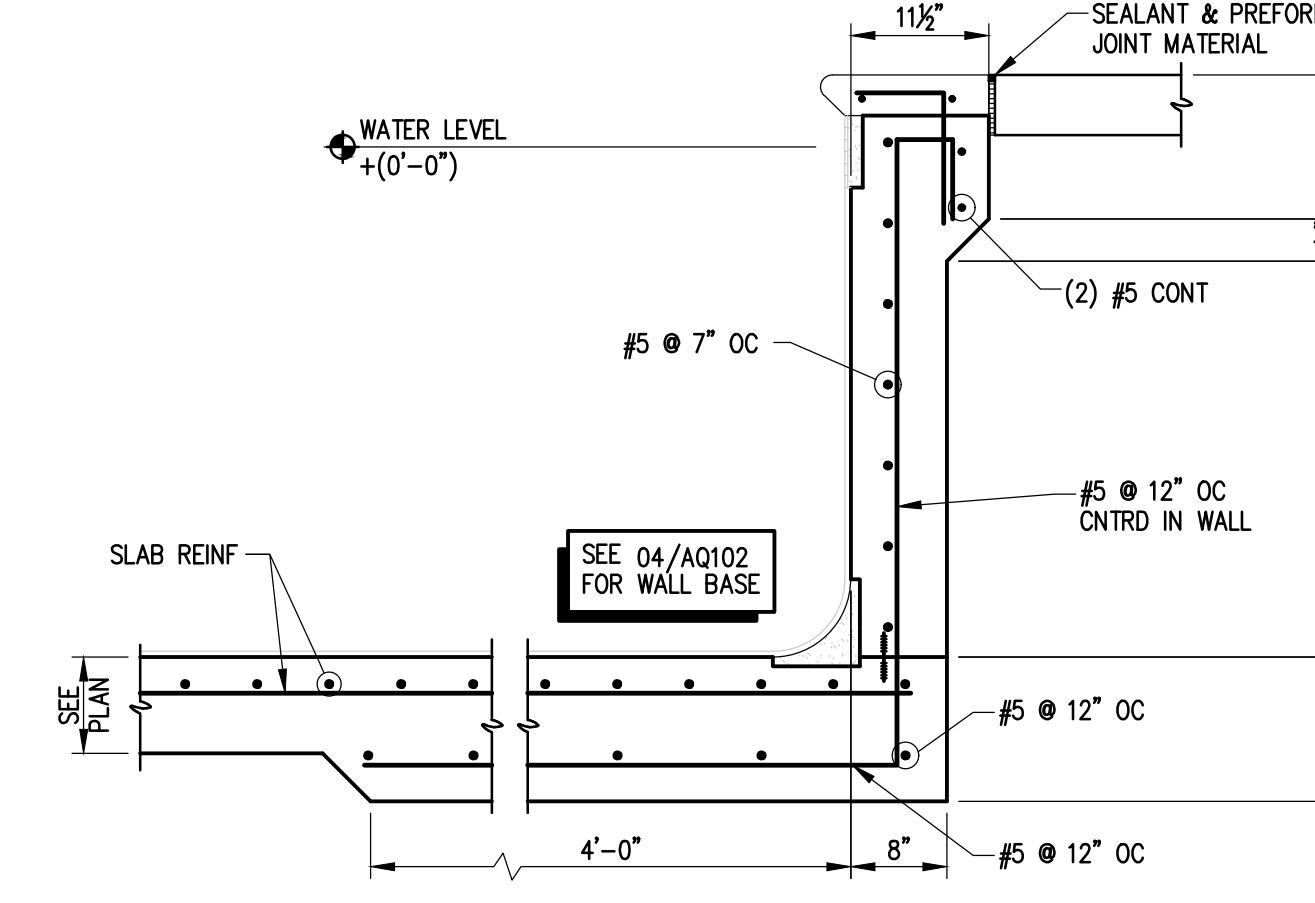
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DET013_7020.0188 AQ104



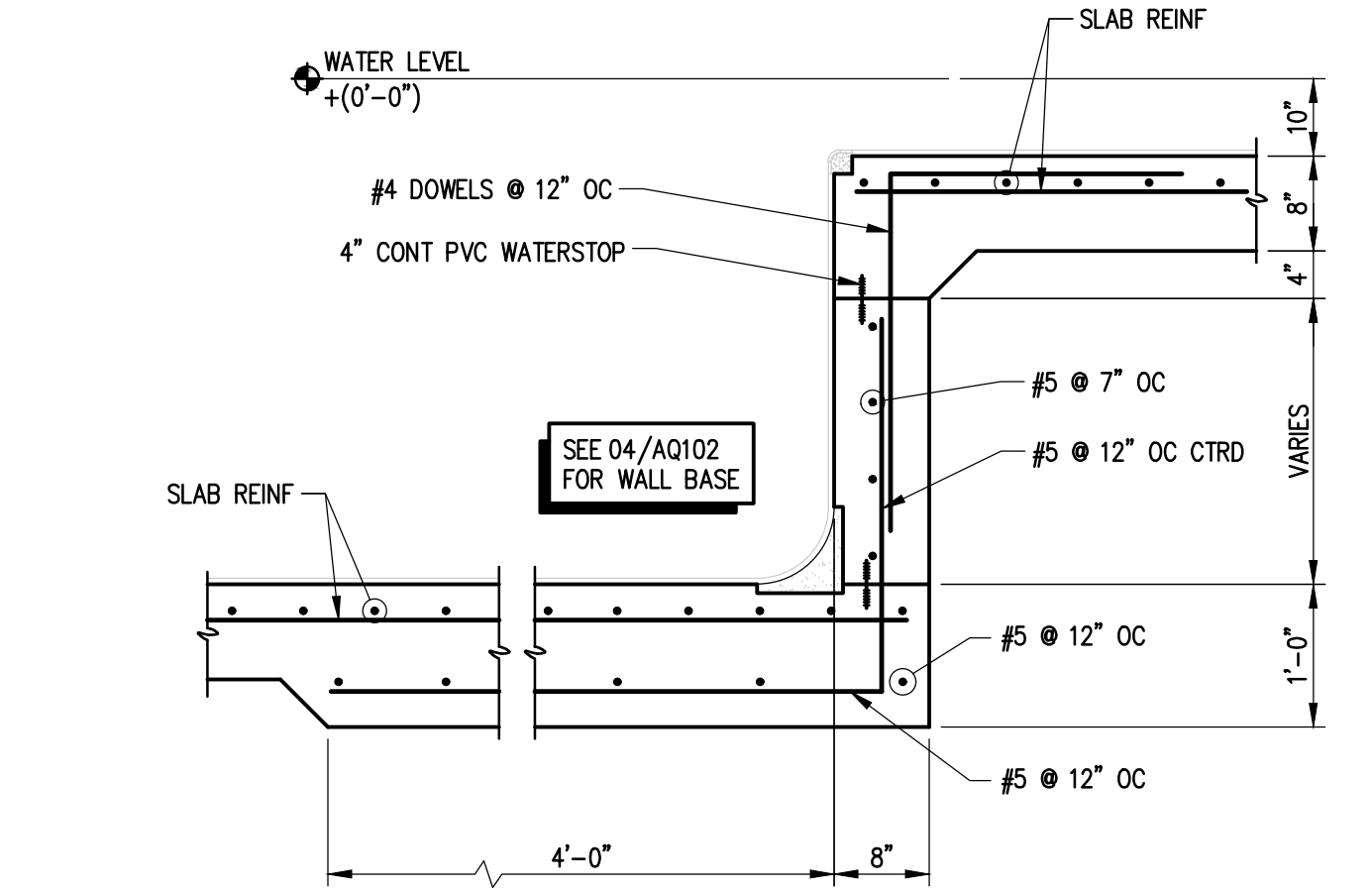
SECTION 01
SCALE: 3/4" = 1'-0"
DET035_7020.0188 AQ104



SECTION 10
SCALE: 3/4" = 1'-0"
DET018_7020.0188 AQ104



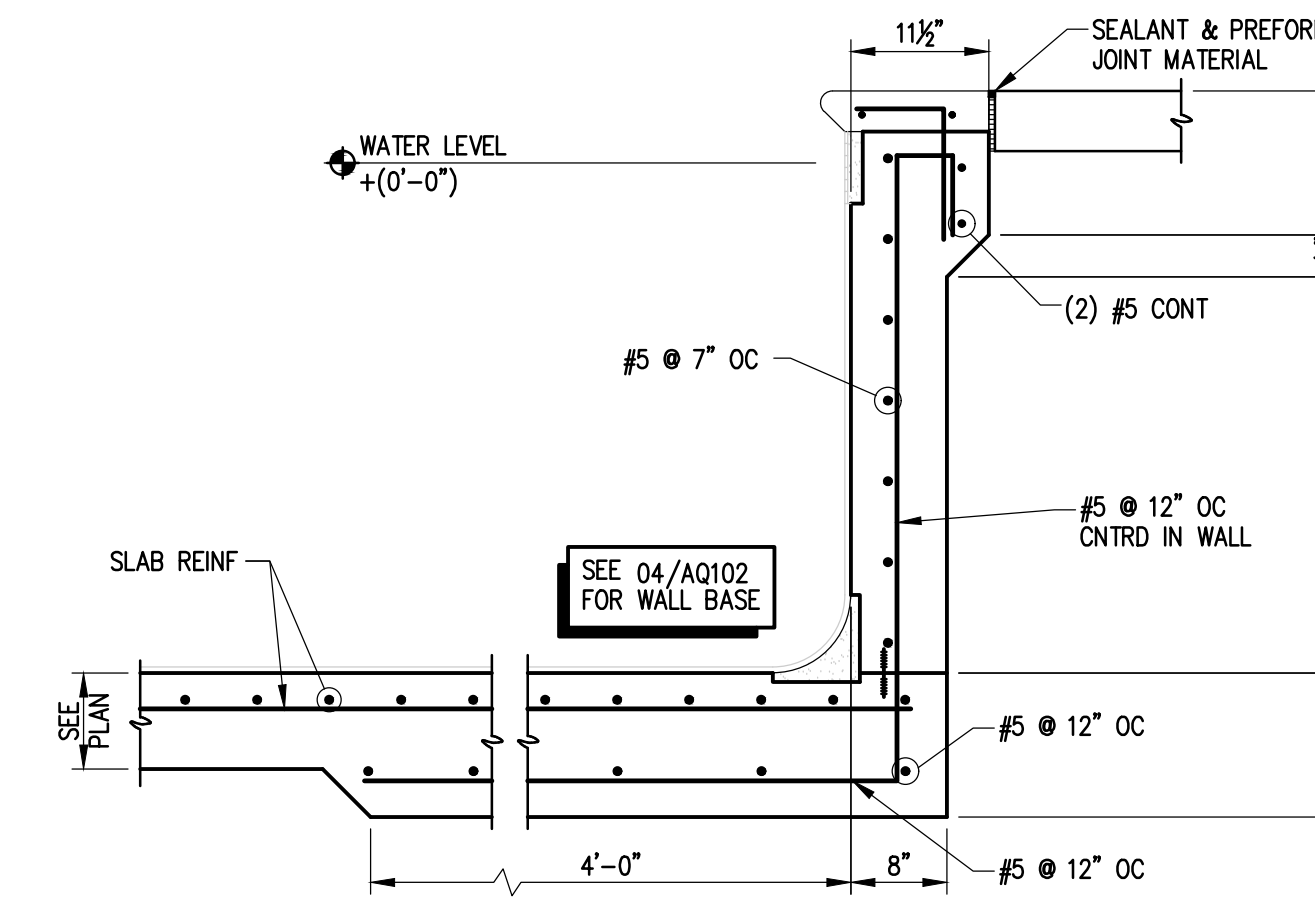
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DET005_7020.0188 AQ104



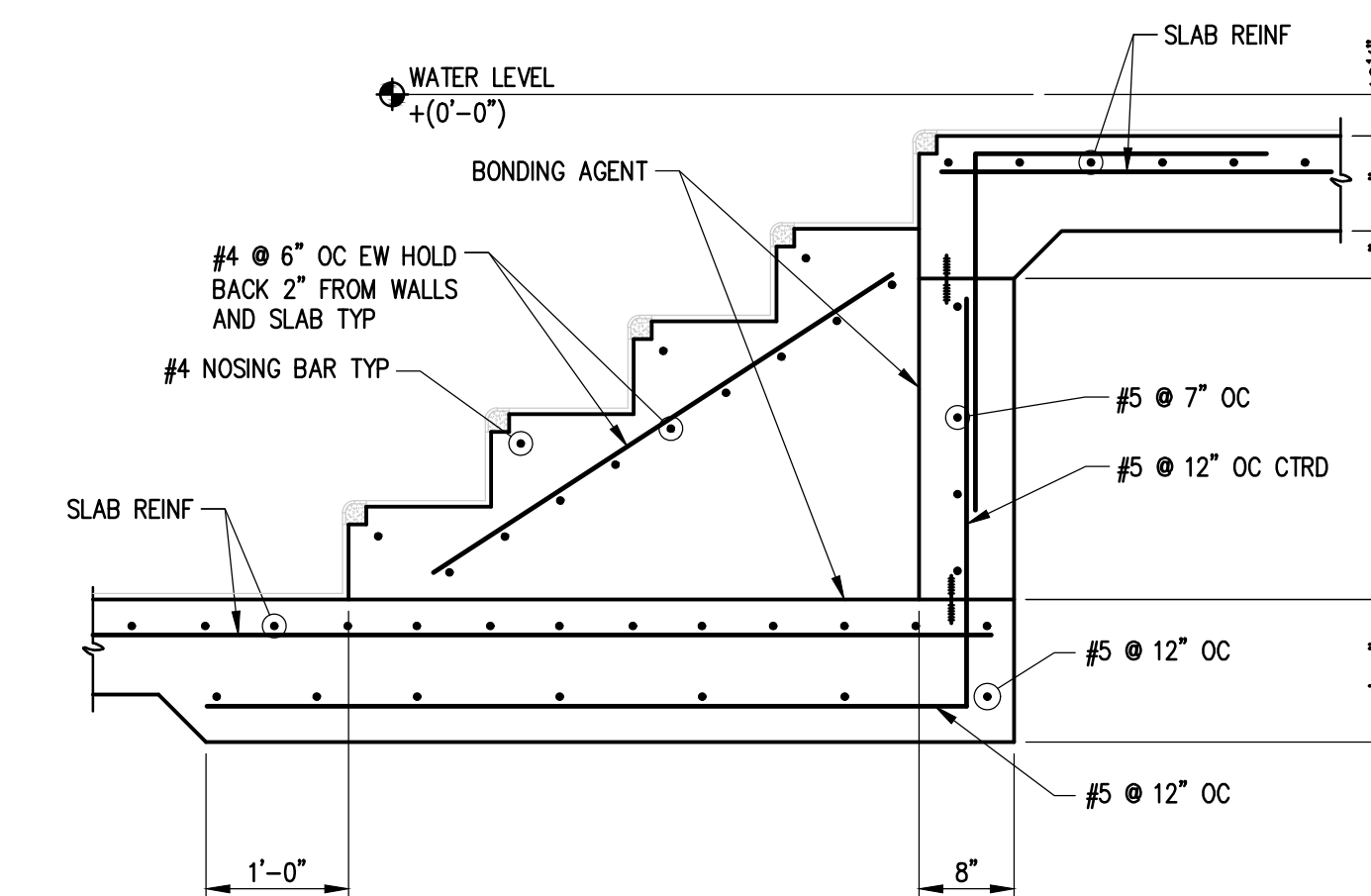
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DET009_7020.0188 AQ104



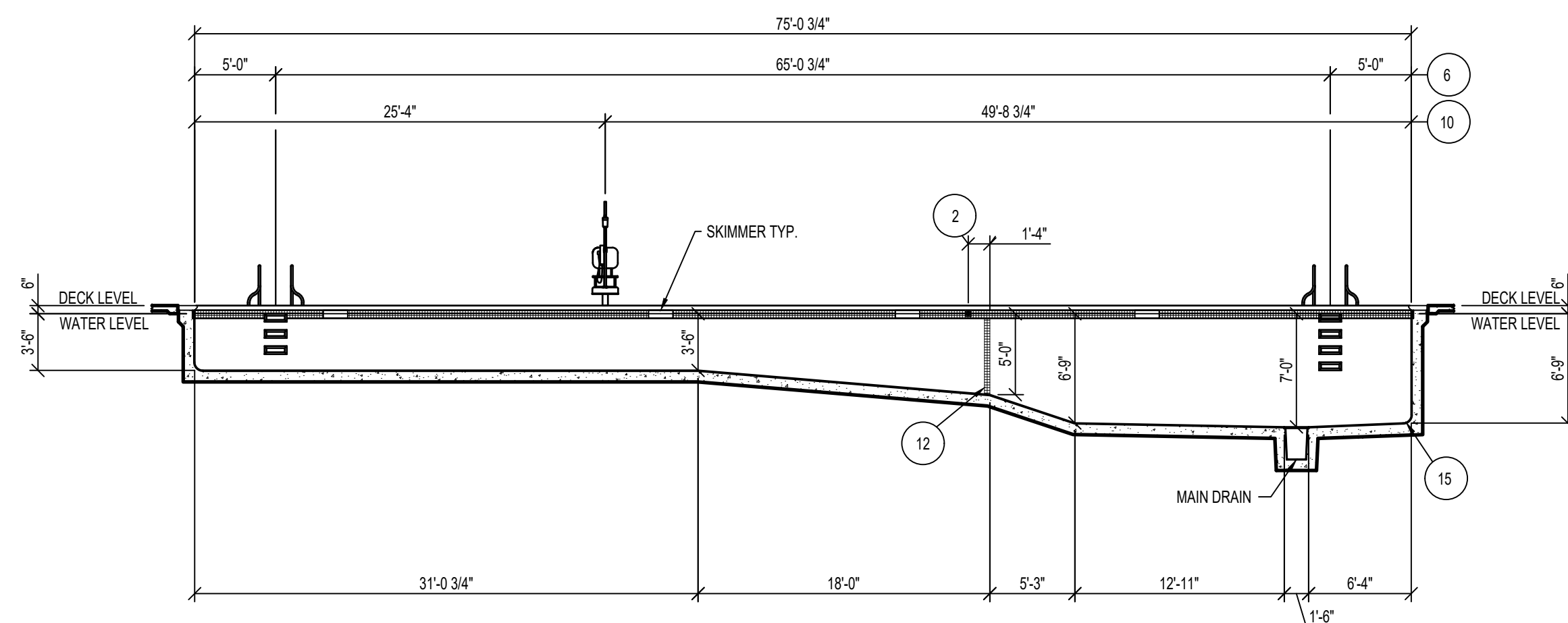
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DET018_7020.0188 AQ104



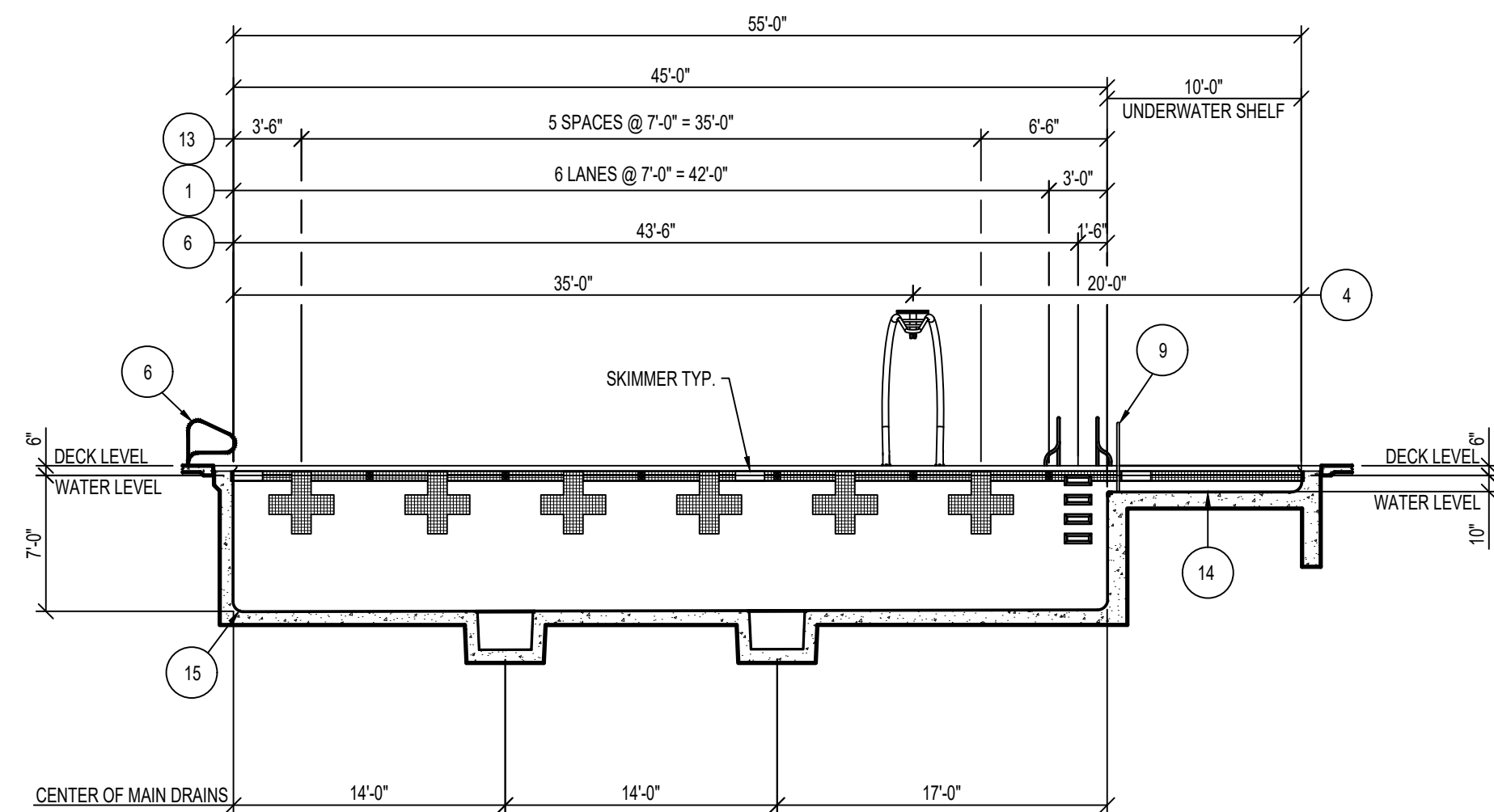
SECTION 07
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DET004_7020.0188 AQ104



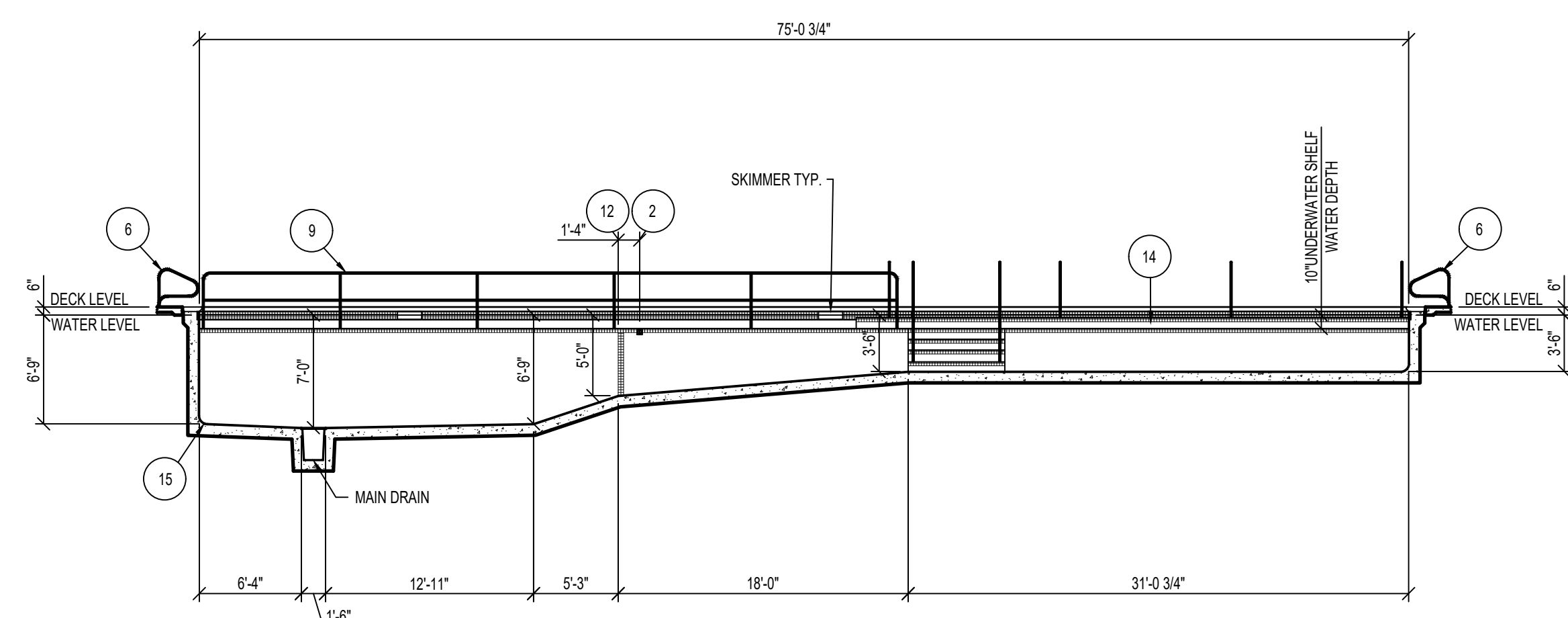
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DET010_7020.0188 AQ104



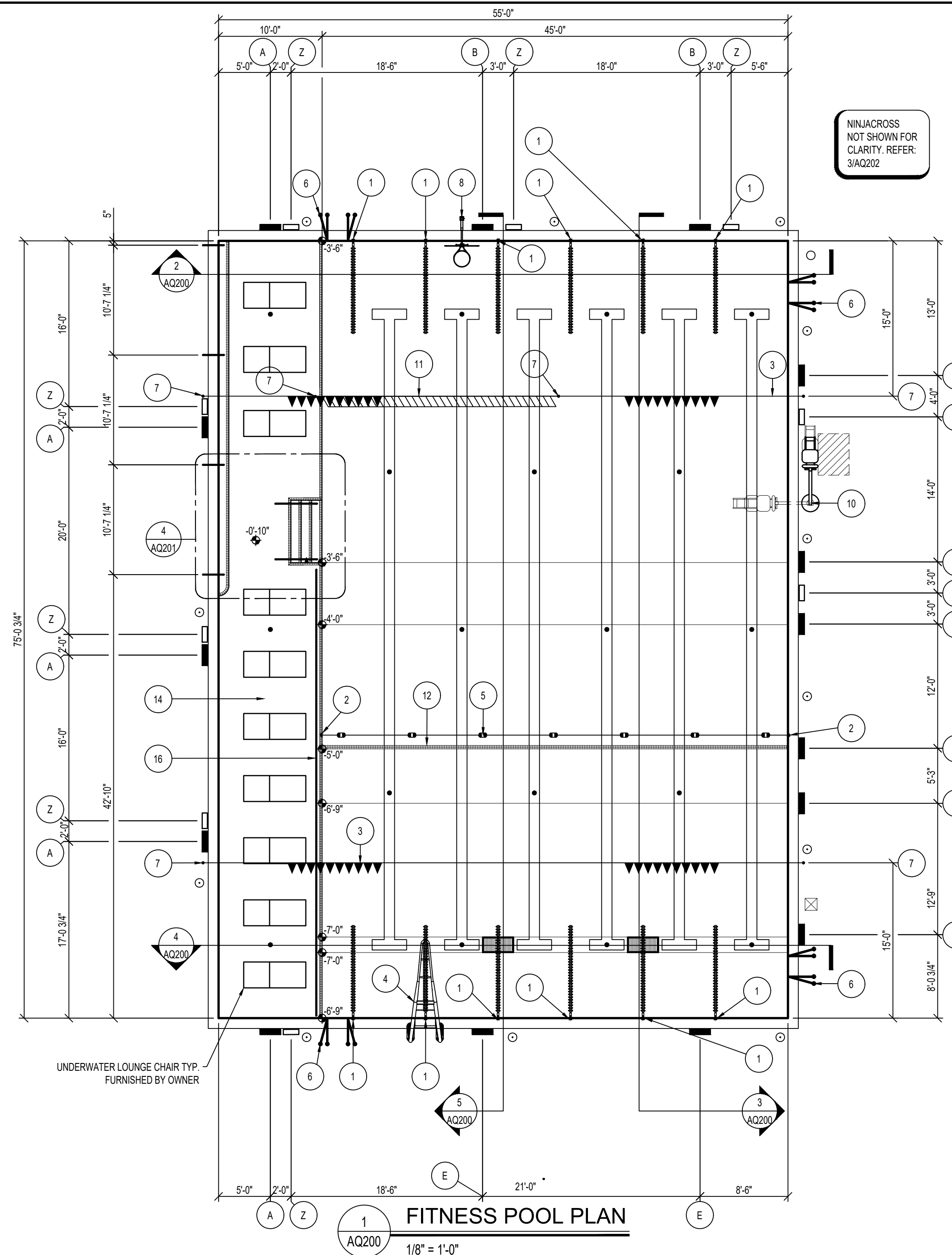
3 FITNESS POOL SECTION
AQ200 1/8" = 1'-0"



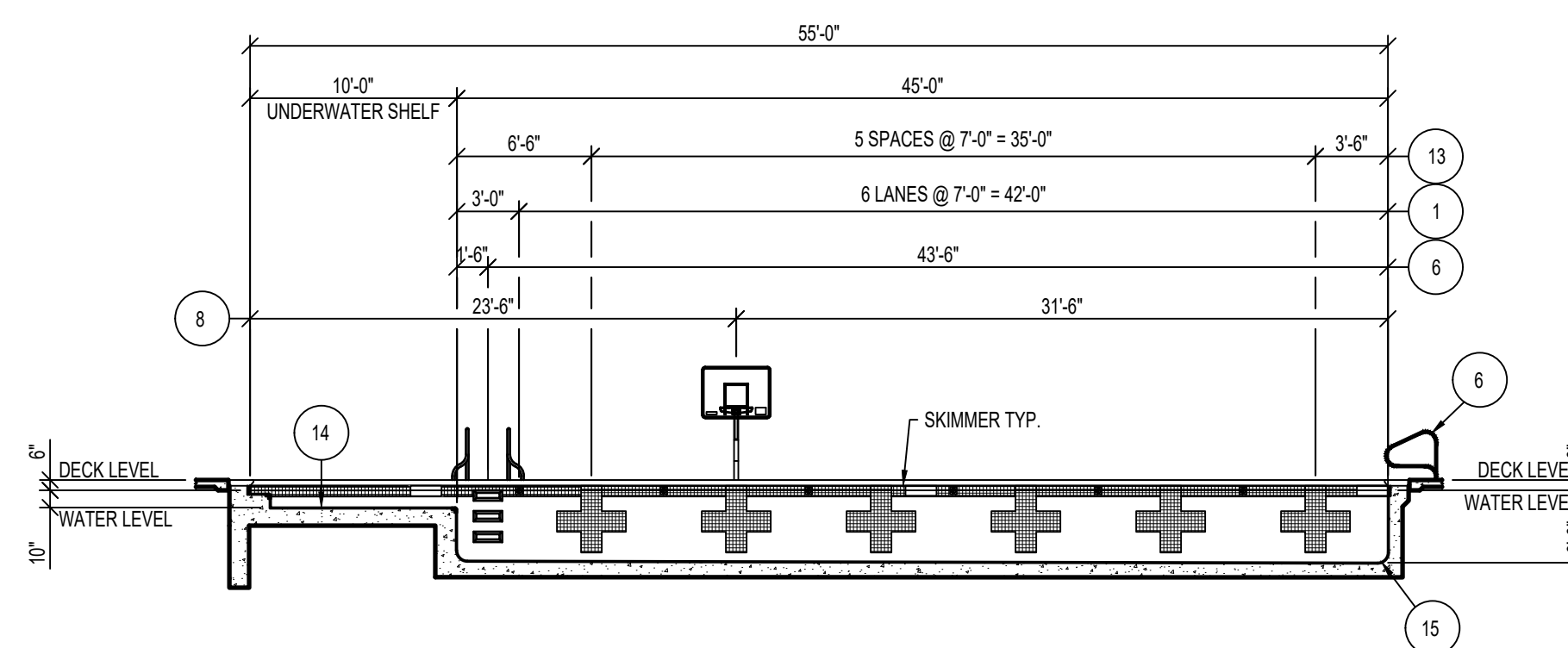
4 FITNESS POOL SECTION
AQ200 1/8" = 1'-0"



5 FITNESS POOL SECTION
AQ200 1/8" = 1'-0"



1 FITNESS POOL PLAN
AQ200 1/8" = 1'-0"



2 FITNESS POOL SECTION
AQ200 1/8" = 1'-0"

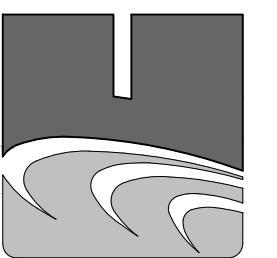
| DEPTH & WARNING SIGNAGE SCHEDULE | |
|----------------------------------|------------|
| ID | SIGNAGE |
| A | 0 FT 10 IN |
| B | 3 FT 6 IN |
| C | 4 FT 0 IN |
| D | 5 FT 0 IN |
| E | 6 FT 9 IN |
| F | 7 FT 0 IN |
| Z | NO DIVING |

NOTE:
REFER: 7/AQ201 FOR DETAIL.

| EQUIPMENT SCHEDULE | |
|--------------------|---|
| ID | ITEM |
| 1 | LANE ROPE CUP ANCHOR REFER: 1/AQ201 |
| 2 | SAFETY ROPE CUP ANCHOR REFER: 1/AQ201 |
| 3 | BACKSTROKE PENNANT |
| 4 | AQUA ZIP'N FEATURE REFER: 1/AQ202 |
| 5 | SAFETY ROPE |
| 6 | GRAB RAILS & RECESSED STEPS REFER: 10/AQ201 |
| 7 | STANCHION POST & ANCHOR REFER: 2/AQ202 |
| 8 | WATER BASKETBALL GOAL REFER: 13/AQ201 |
| 9 | UNDERWATER SHELF GUARD RAIL REFER: 4/AQ202 |
| 10 | POOL LIFT & ANCHOR REFER: 11/AQ201 |
| 11 | WATER VOLLEYBALL STANCHION POST & ANCHOR REFER: 12/AQ201 |
| 12 | 4" CONTRASTING TILE BAND COLOR BY ARCHITECT |
| 13 | WALL TARGET REFER: 8/AQ201 |
| 14 | UNDERWATER SHELF REFER: 5/AQ201 |
| 15 | POOL COVE REFER: 2/AQ201 |



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CLIENT
WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER
WORLD

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

| MARK | DESCRIPTION | DATE |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |

PROJECT NO: 20224620
DRAWN BY: KAS
CHECKED BY: CCH

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DRAWING TITLE
FITNESS POOL PLAN
& SECTIONS

AQ200

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
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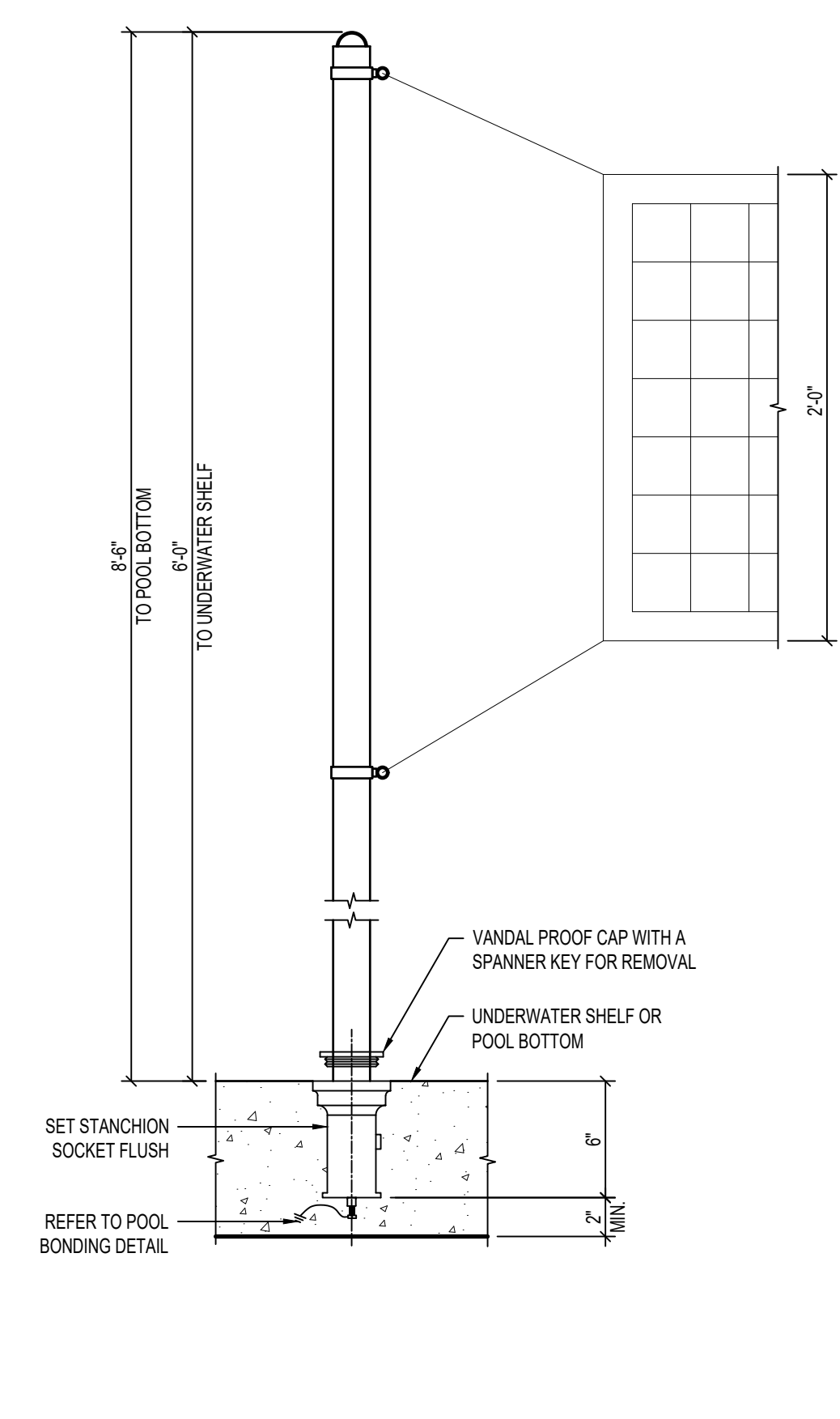
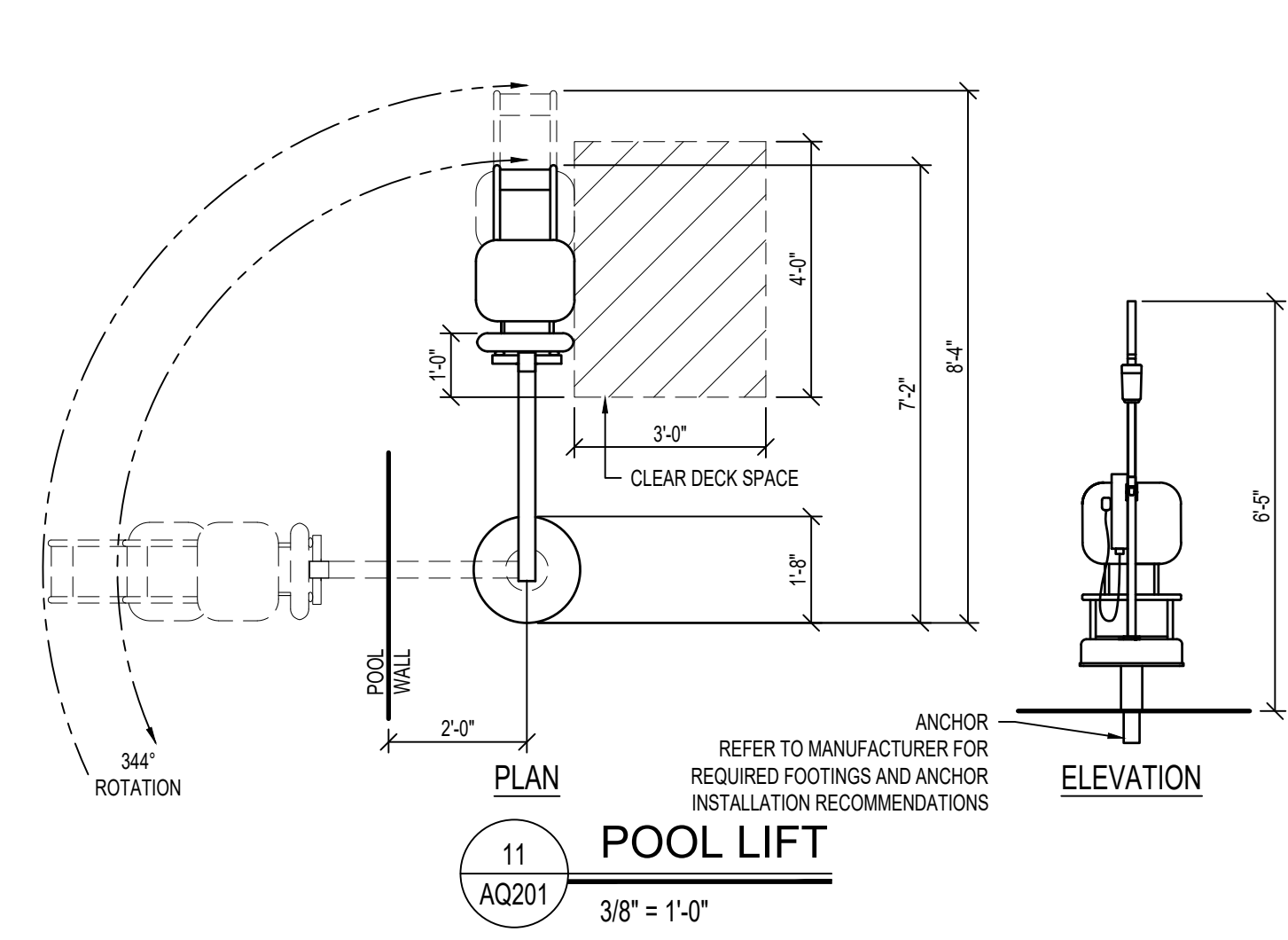
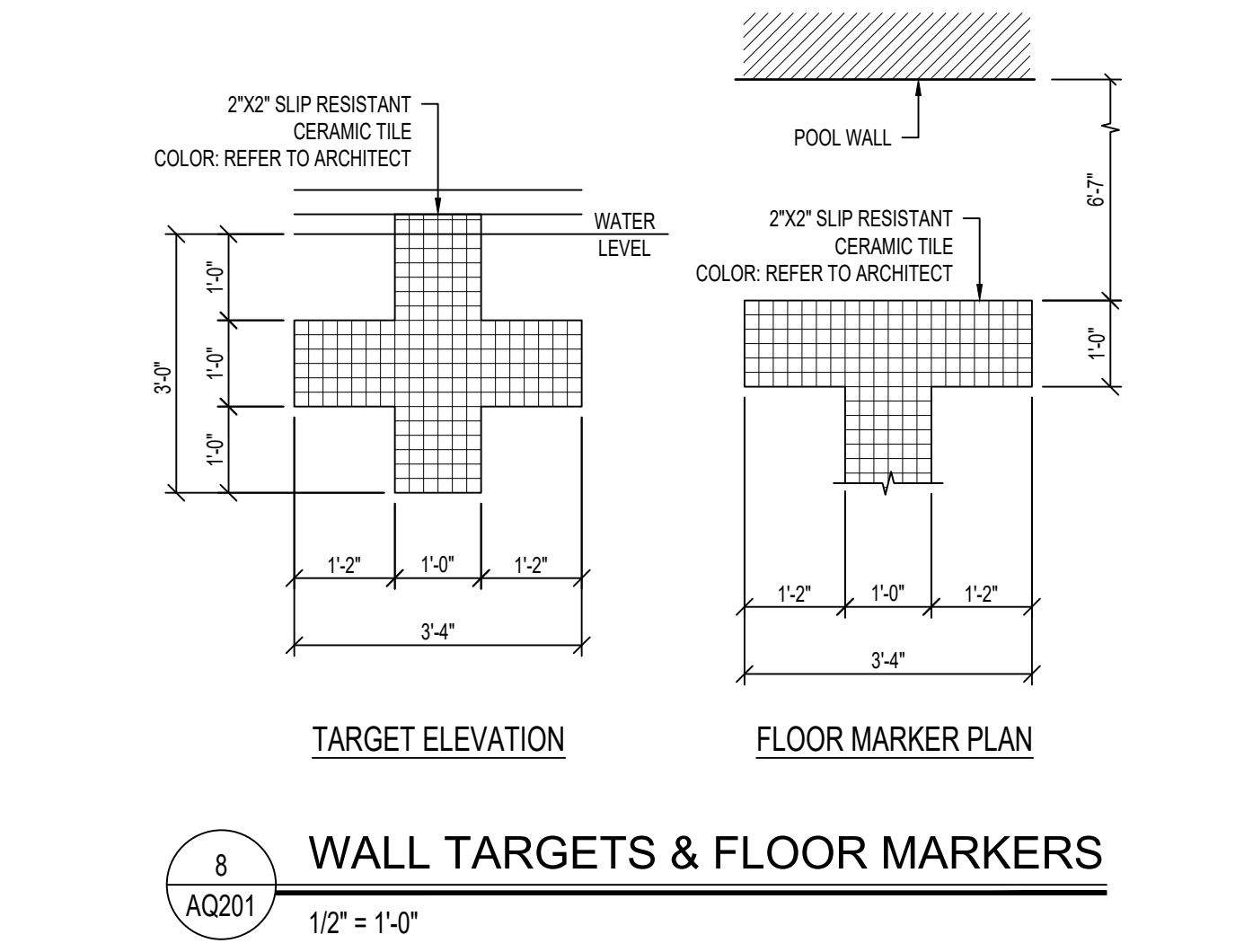
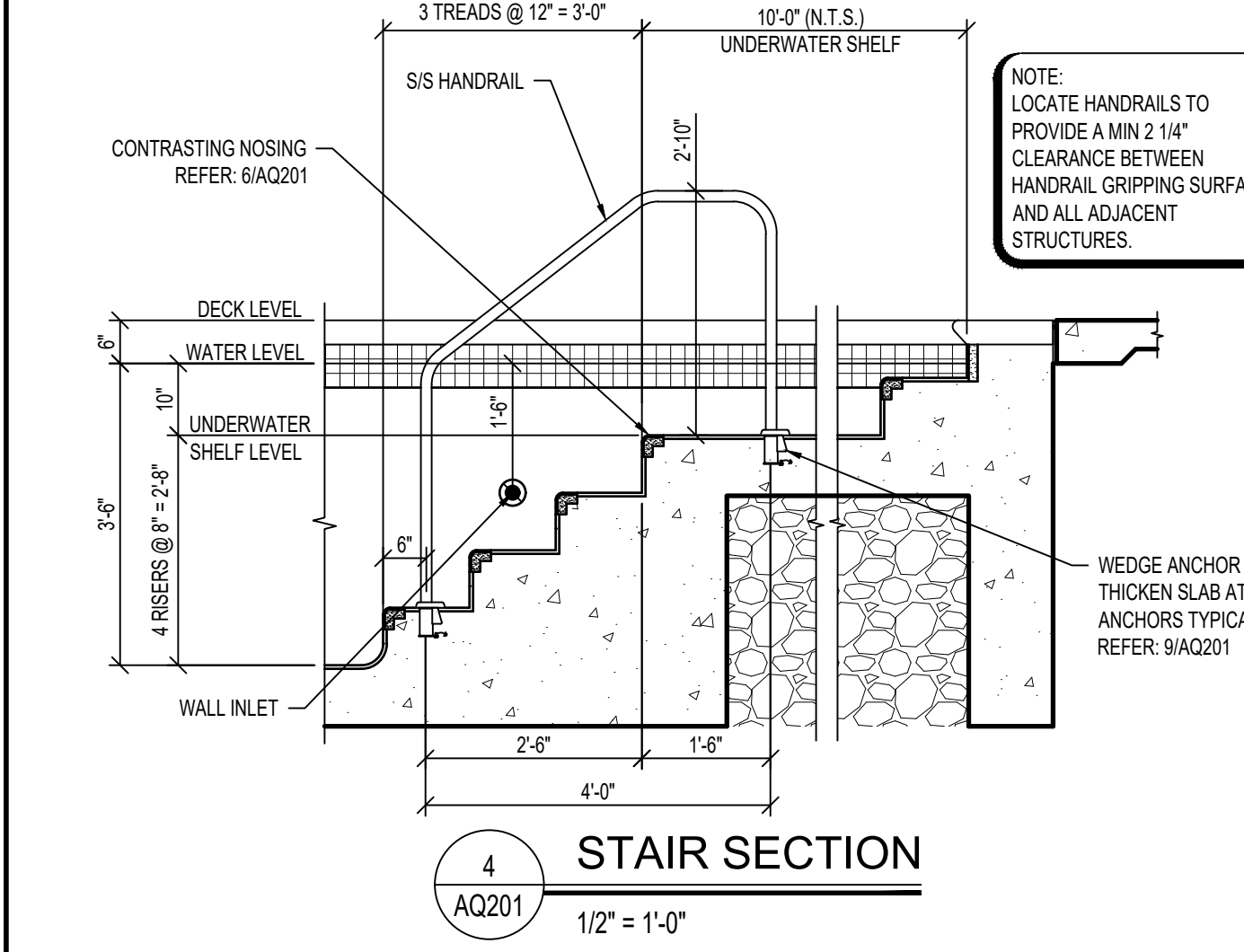
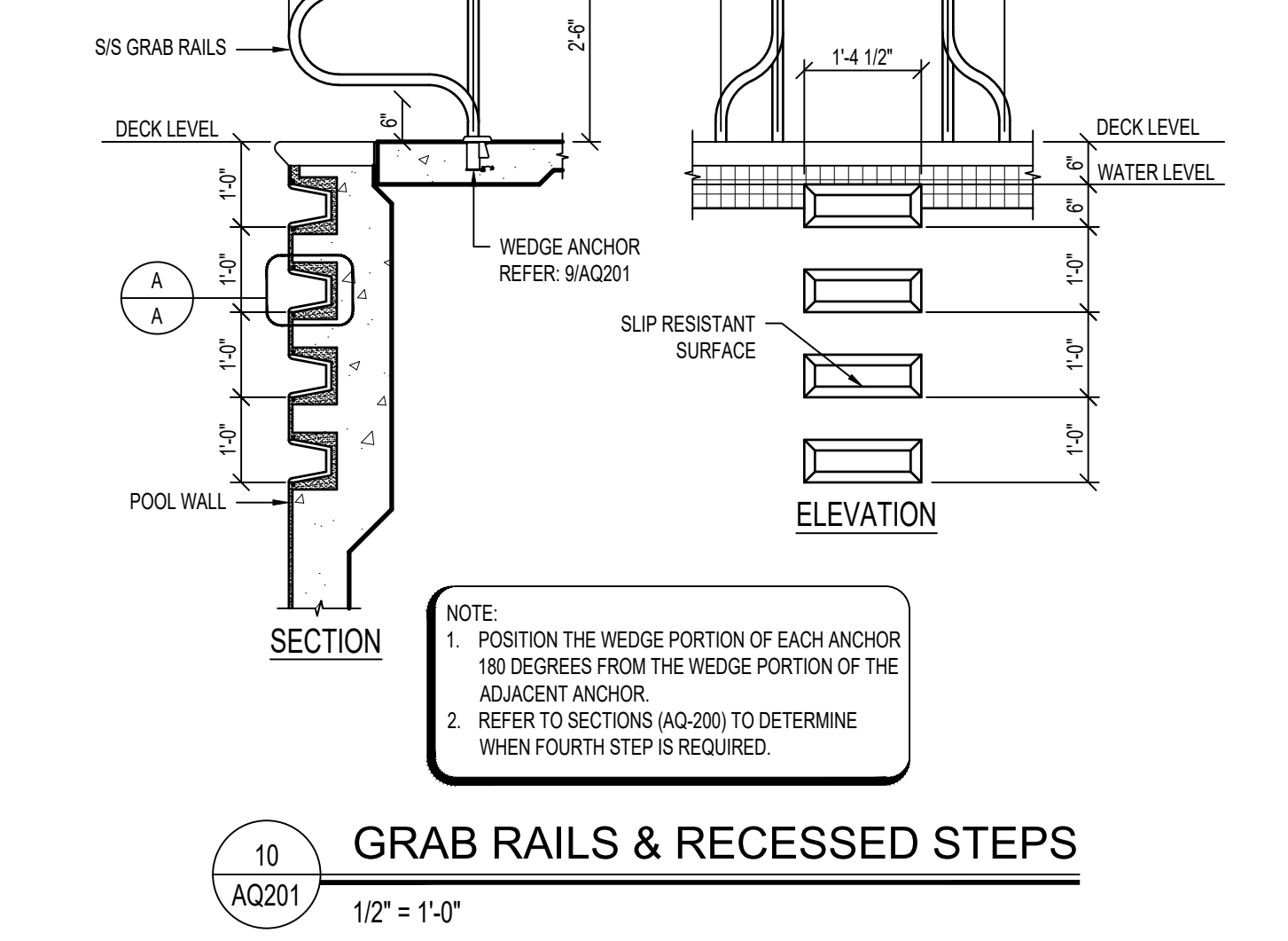
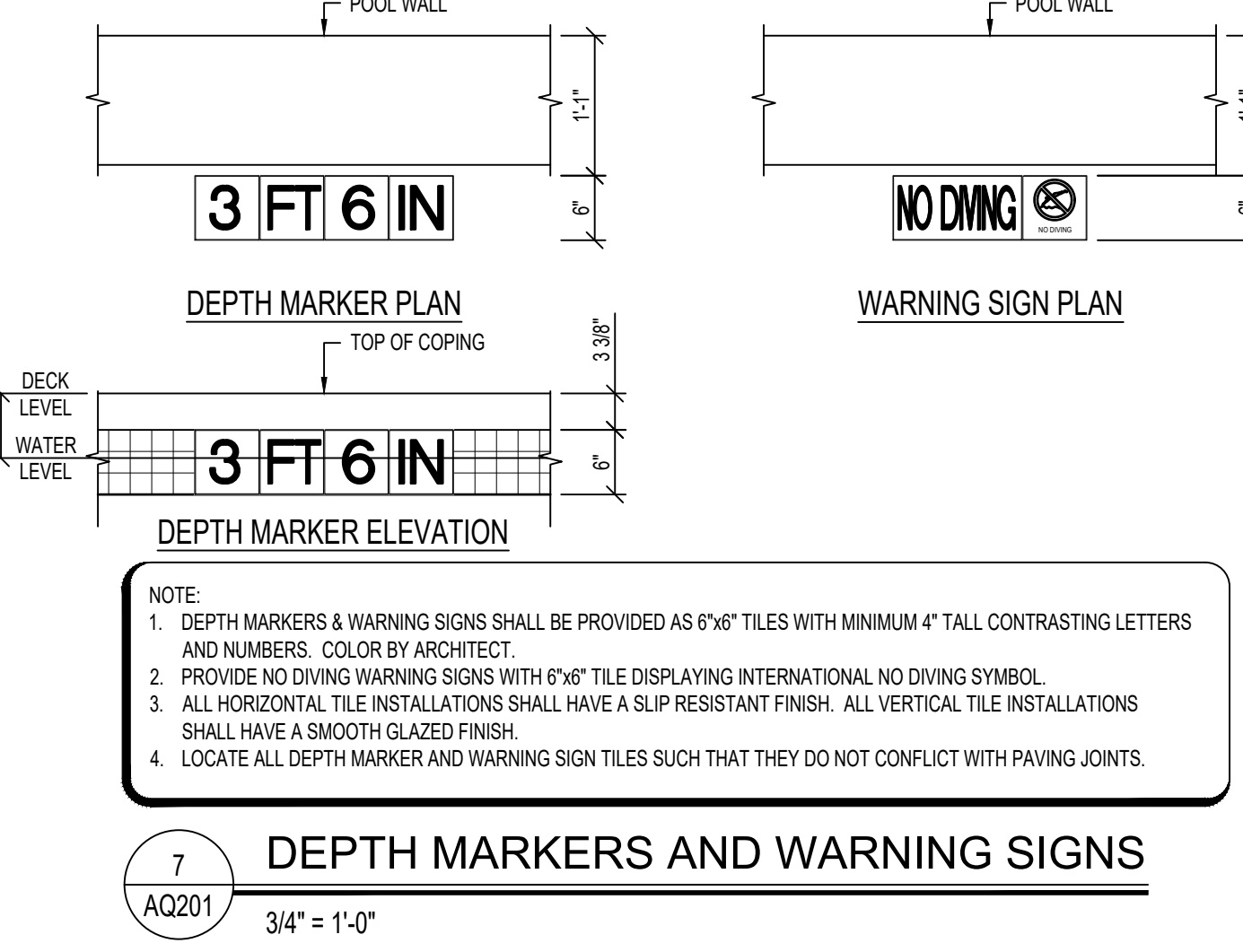
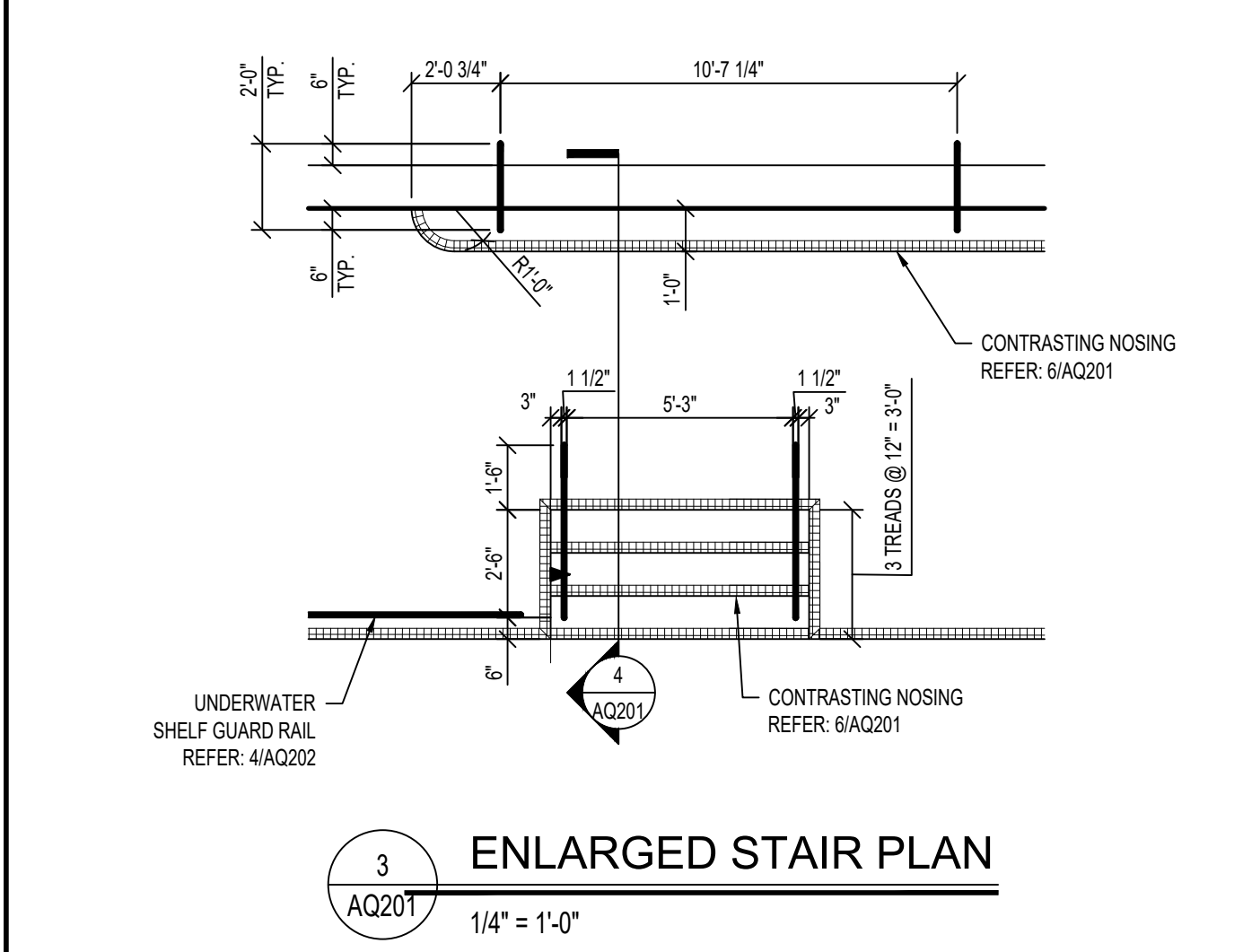
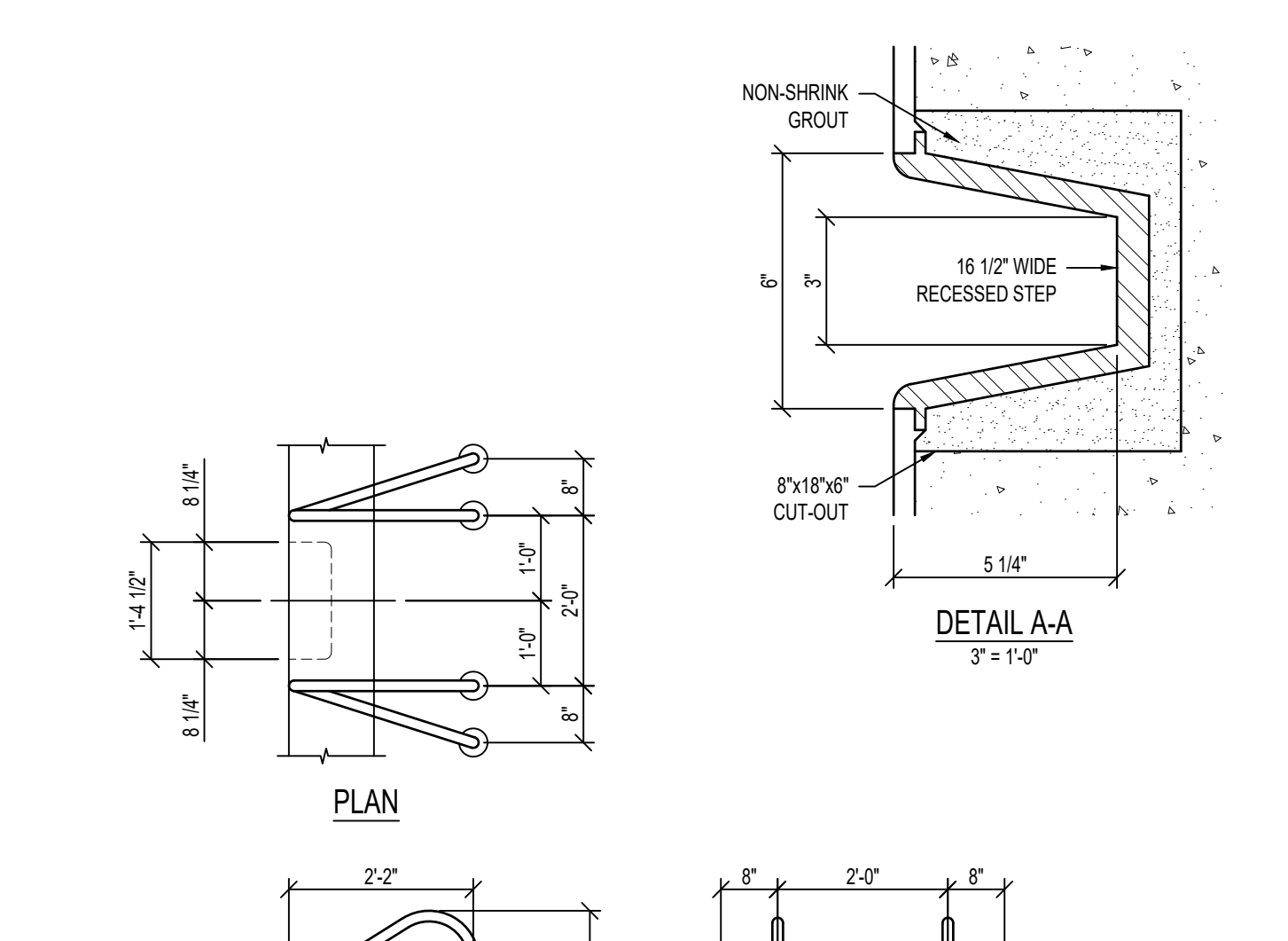
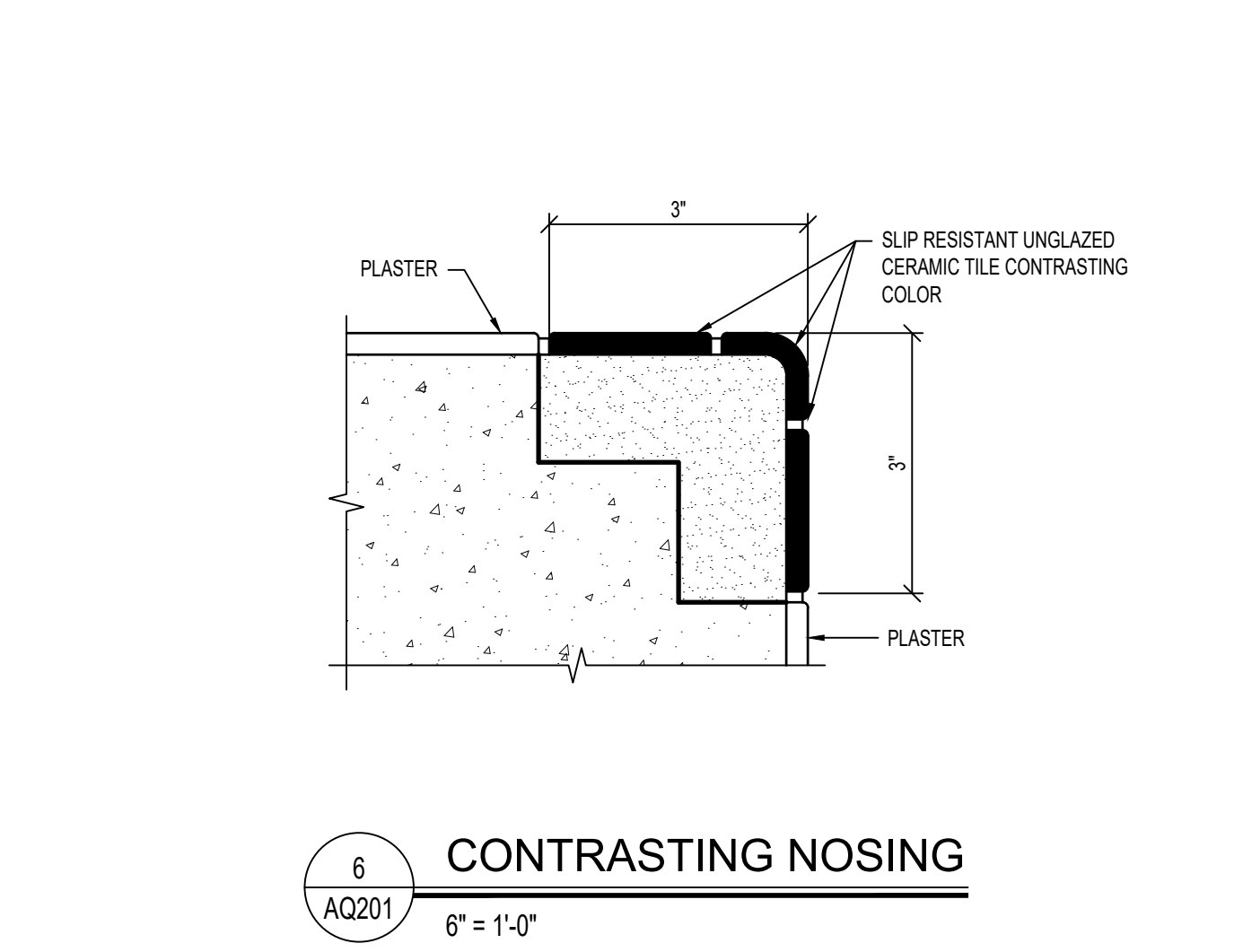
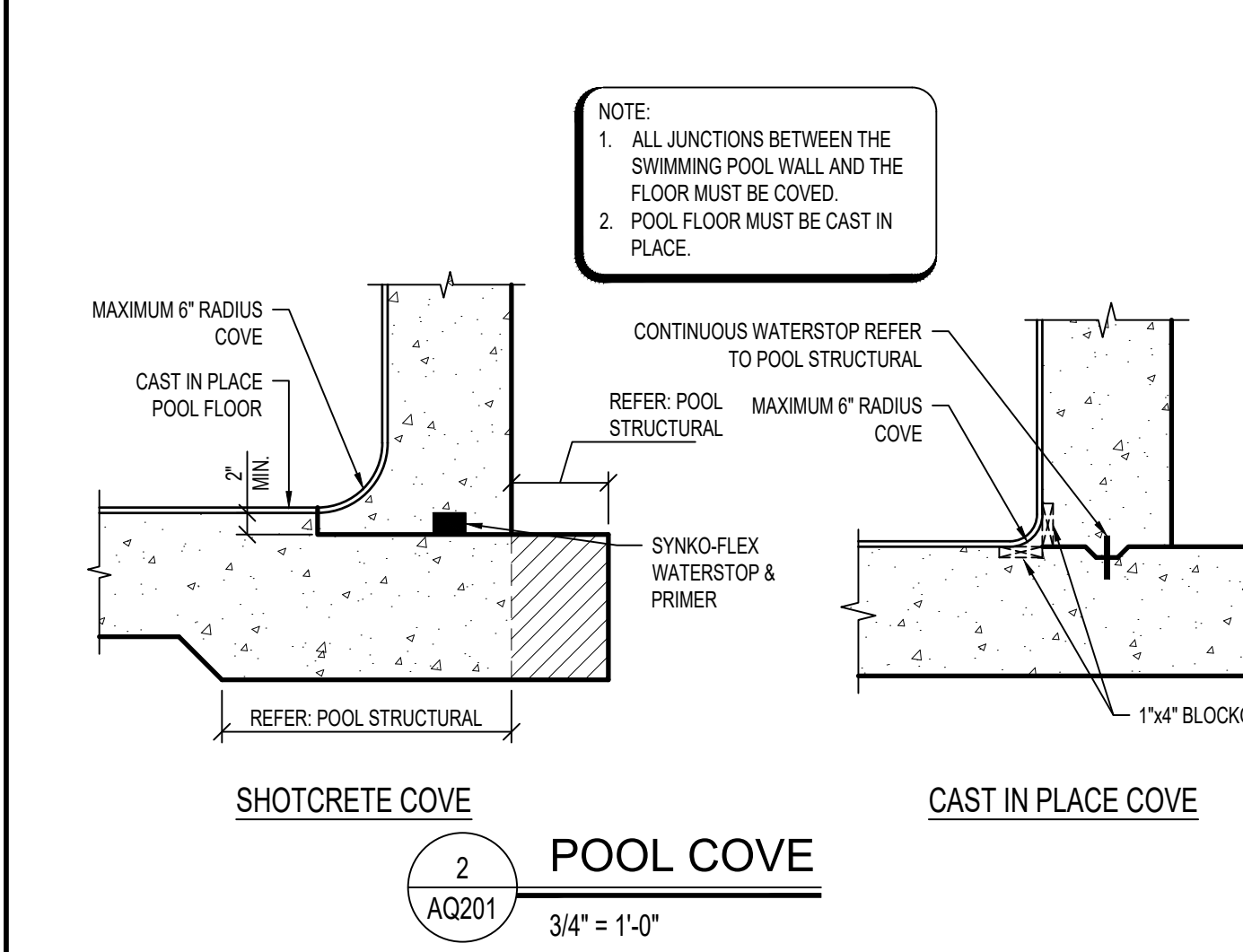
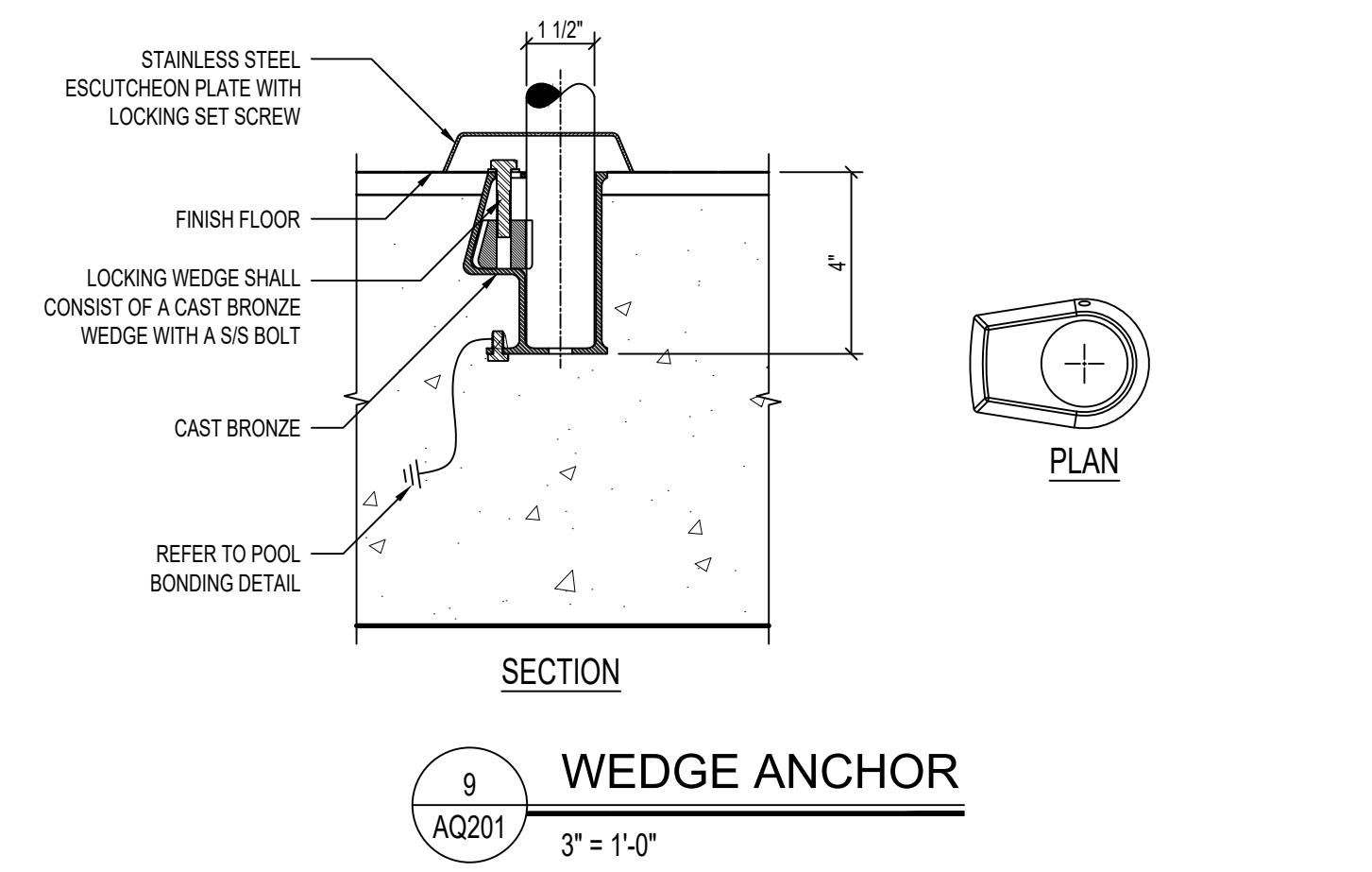
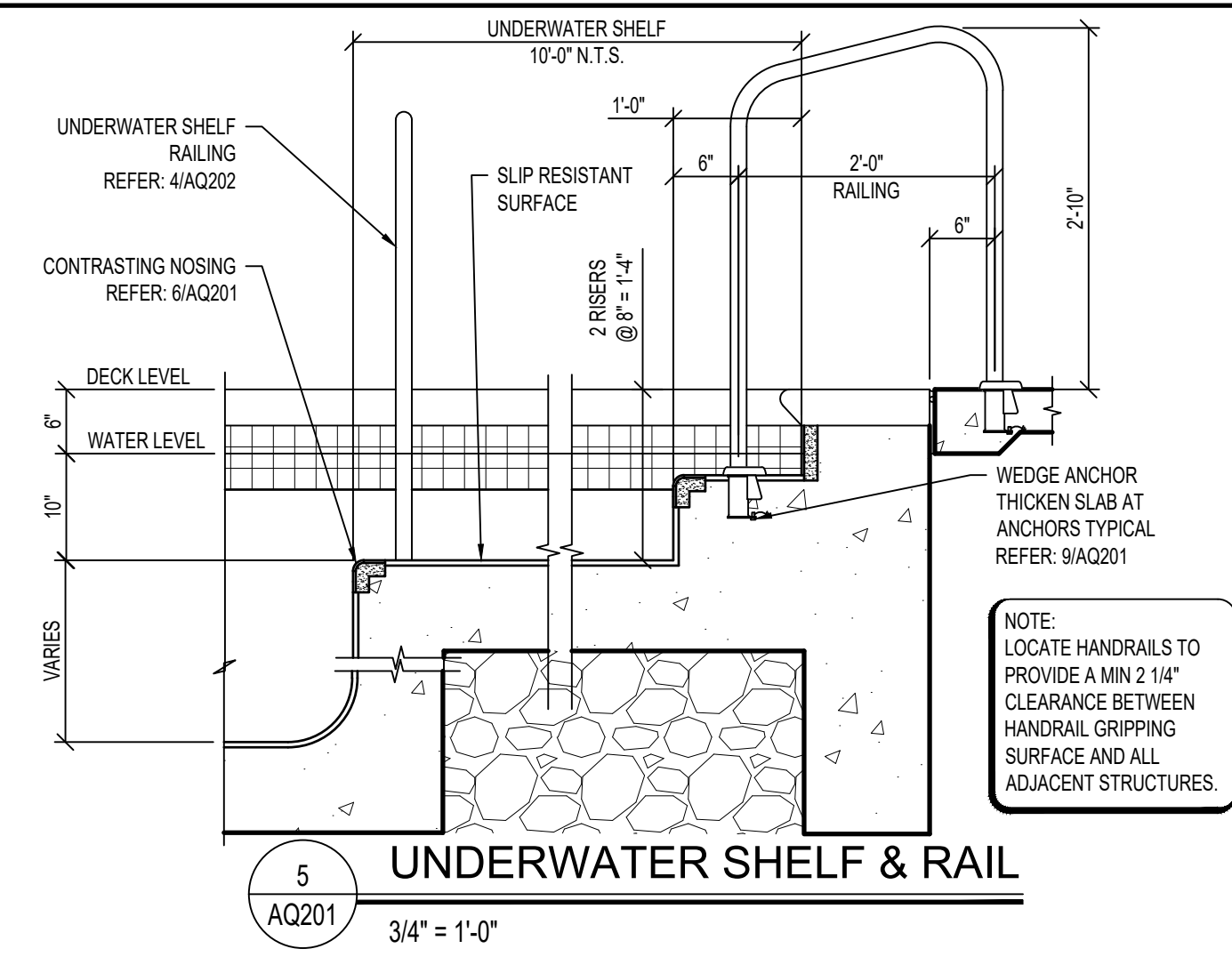
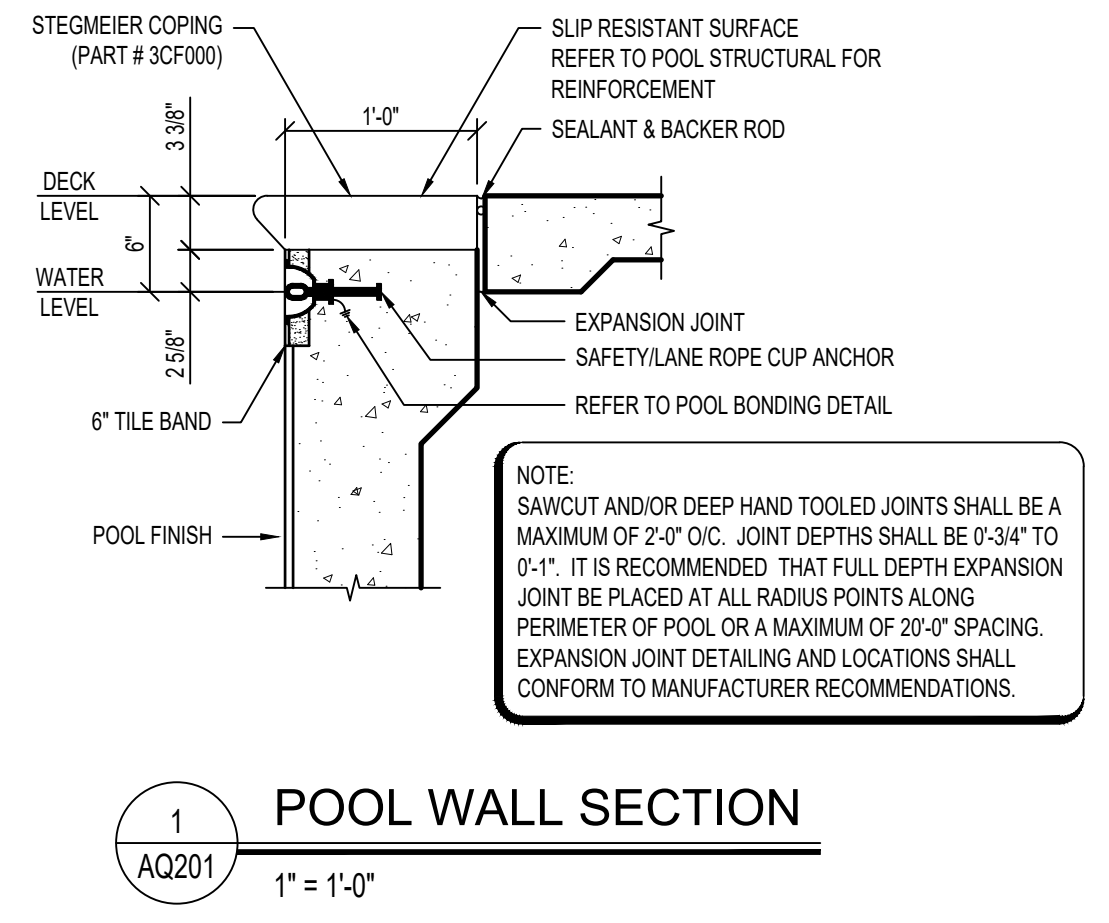
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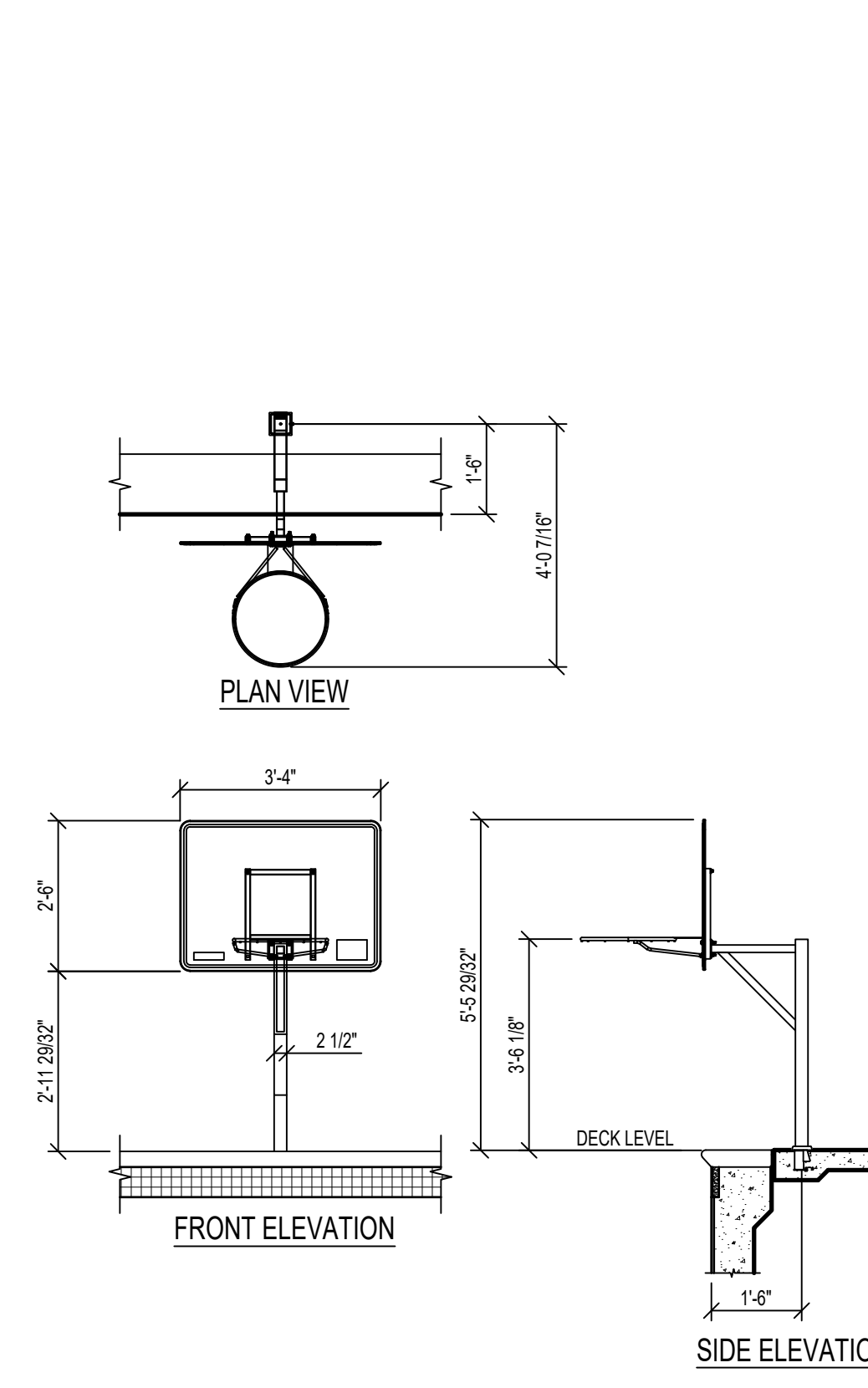


DRAWING TITLE
FITNESS POOL DETAILS

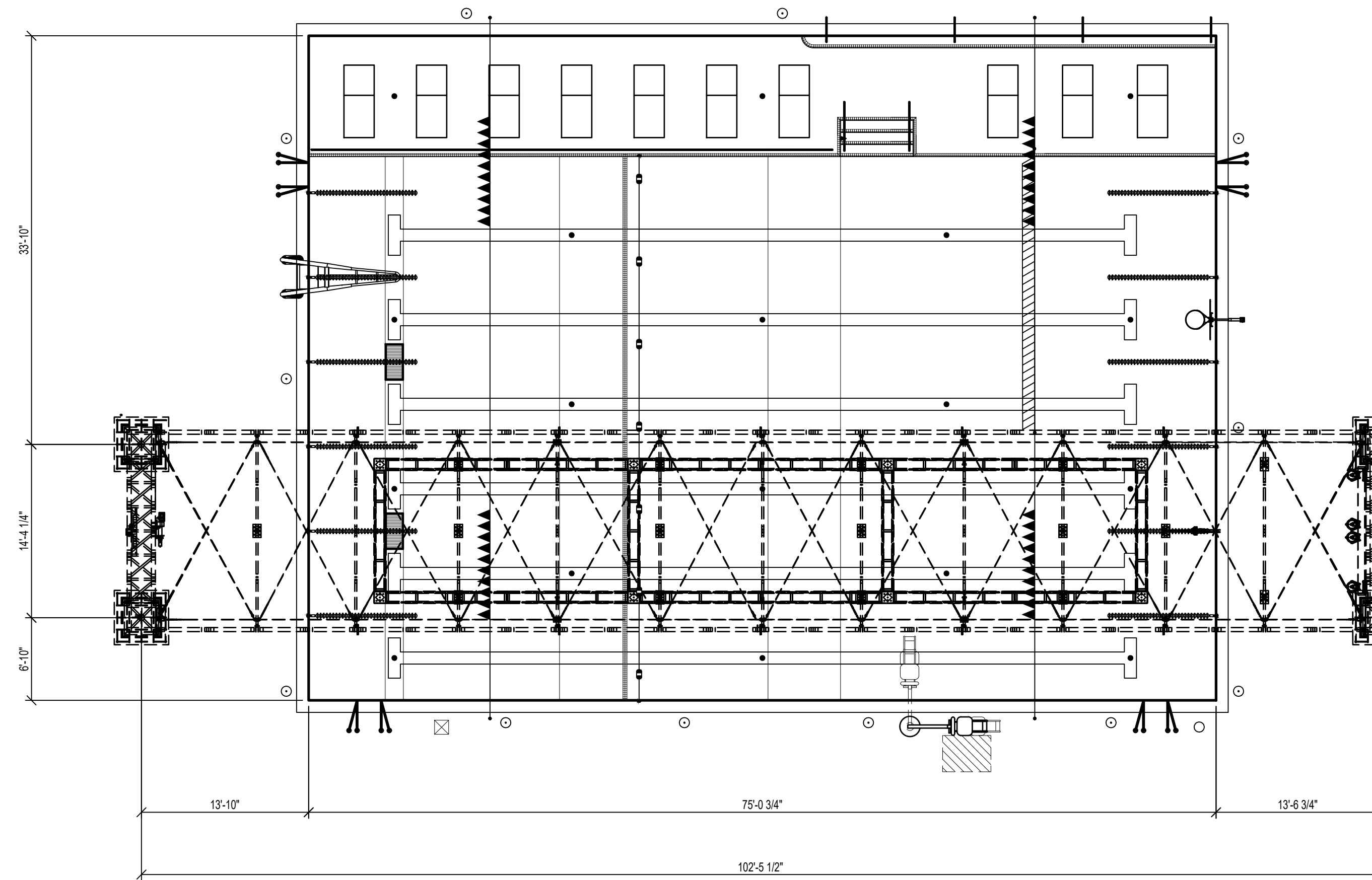
AQ201



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



13 WATER BASKETBALL GOAL
3/8" = 1'-0"



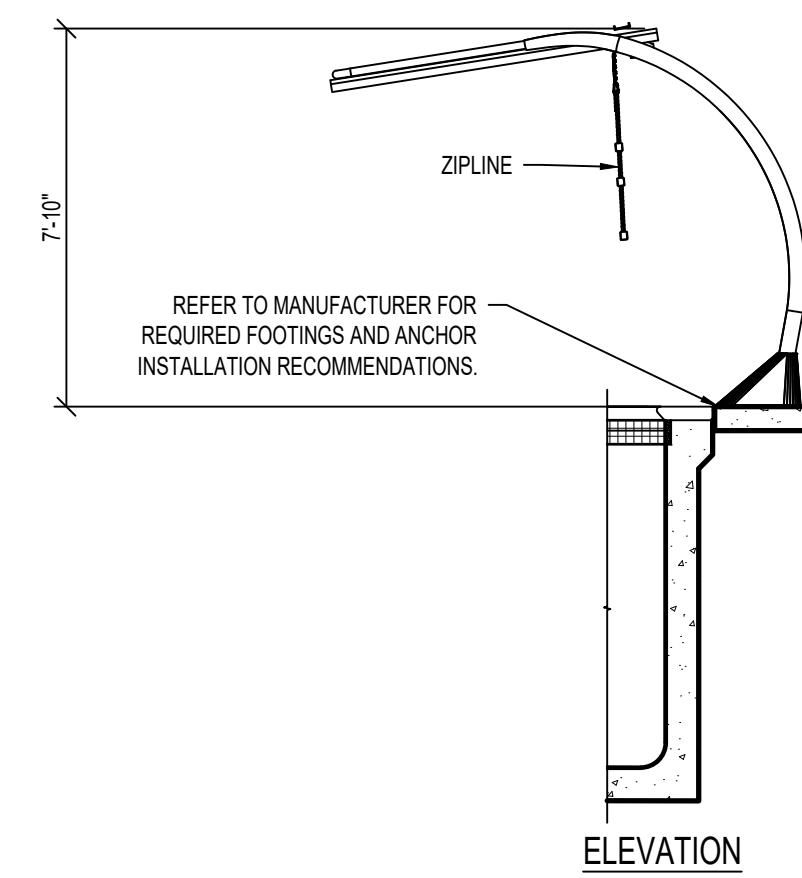
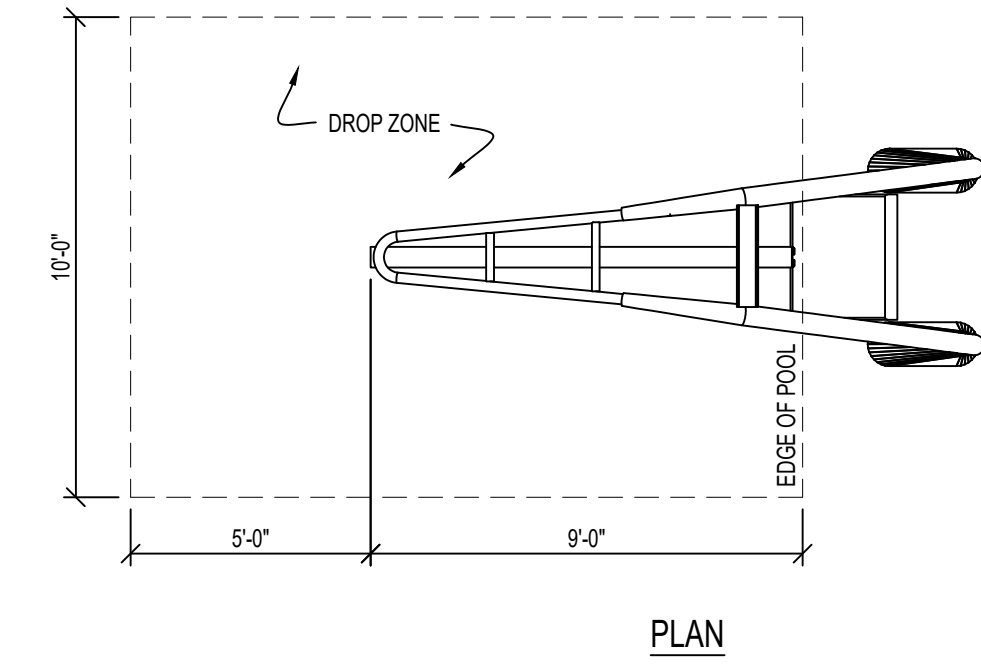
DEFERRED APPROVAL NOTICE

INSTALLATION OF THE NINJA CROSS FOOTINGS MUST NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS, AND COMPLETE ZONE 4 SEISMIC CALCULATIONS 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.

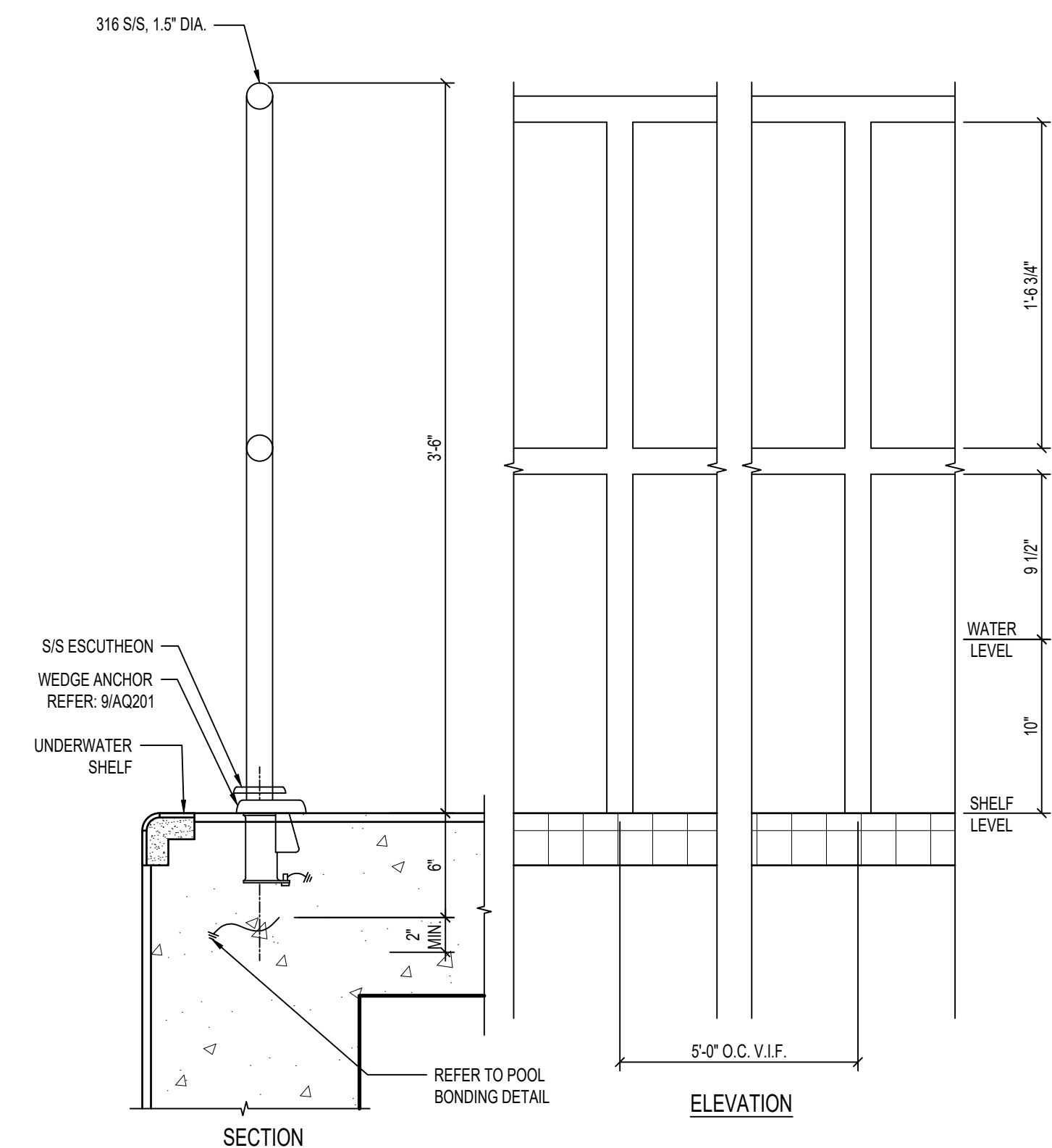
OBSTACLE COURSE FOOTINGS SHALL BE DESIGNED BY AN ENGINEER PER THE PARAMETERS WITHIN GEOTECHNICAL REPORT. FOOTINGS SHALL NOT SURCHARGE THE POOL STRUCTURE.

OBSTACLE COURSE ELECTRICAL CONNECTION SHALL BE PROVIDED. REFER TO POOL ELECTRICAL.

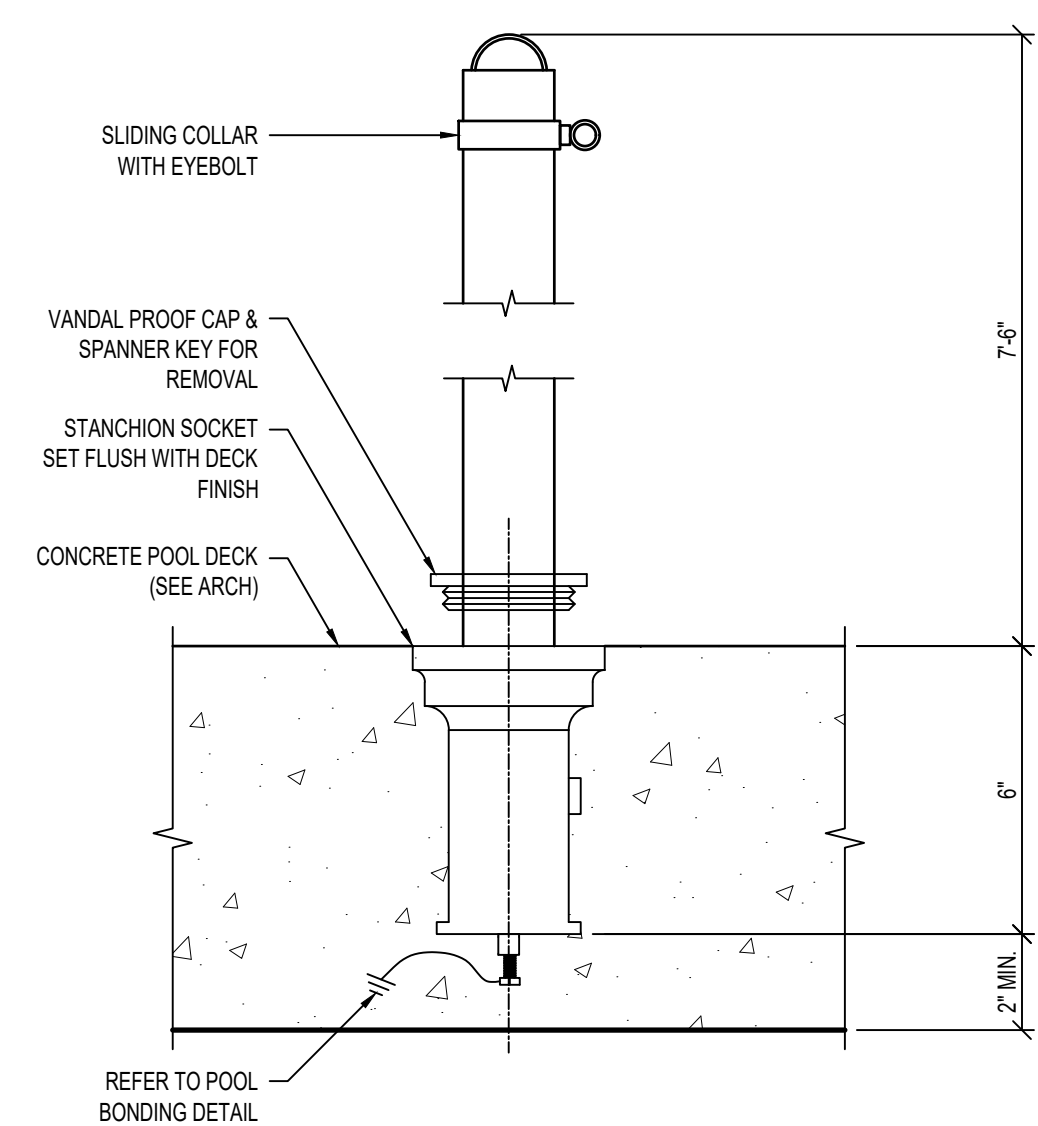
3 NINJA CROSS PLAN
AQ202 1/8" = 1'-0"



1 ZIPLINE FEATURE
AQ202 1/4" = 1'-0"



4 UNDERWATER SHELF GUARD RAIL
AQ202 1 1/2" = 1'-0"



2 STANCHION POST & ANCHOR
AQ202 3" = 1'-0"

CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

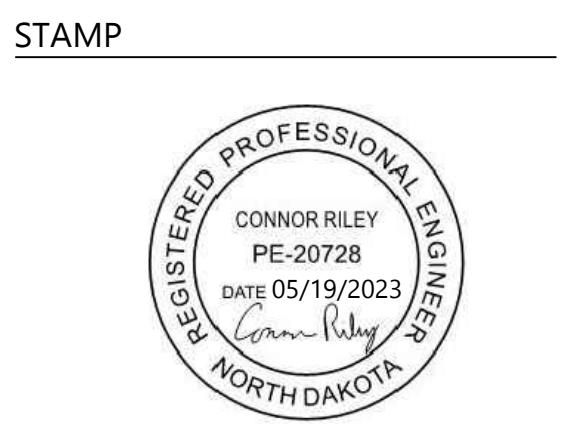
CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

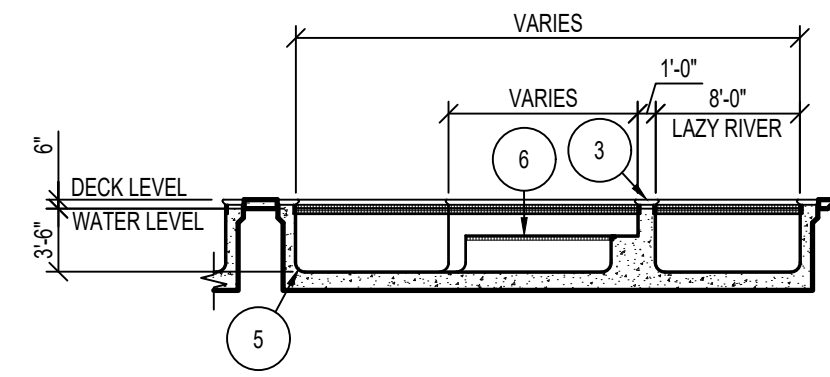
PROJECT NO: **20224620**
DRAWN BY: **KAS**
CHECKED BY: **CCH**

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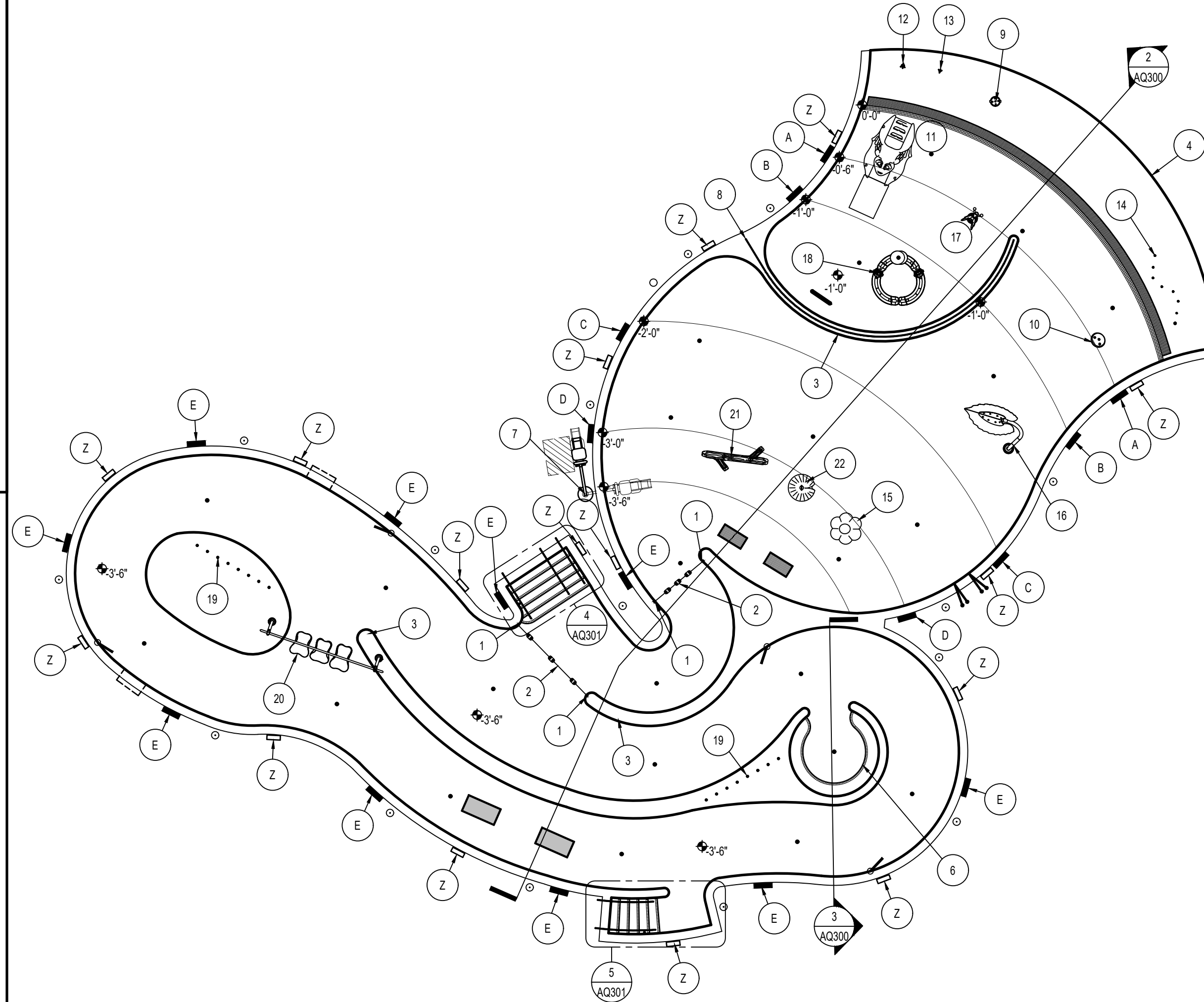


DRAWING TITLE
FITNESS POOL DETAILS

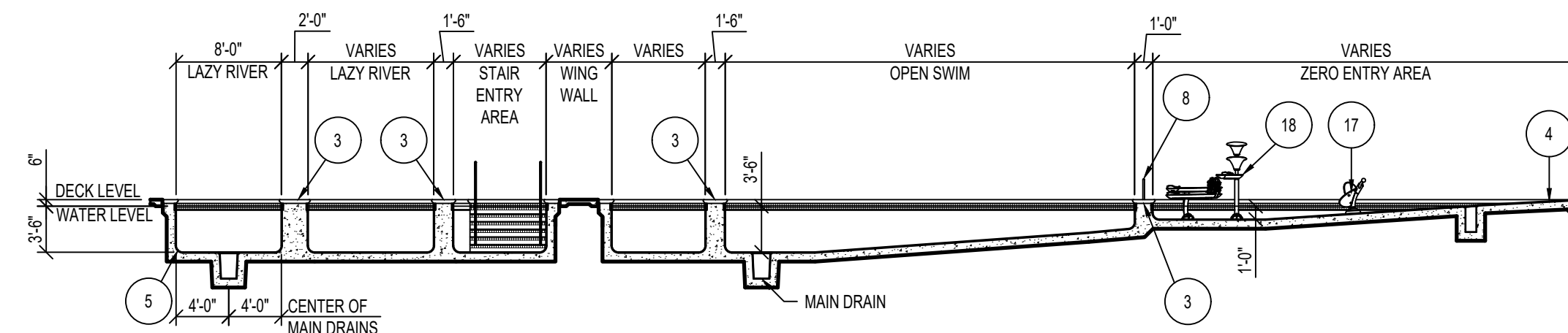
AQ202



3 LEISURE POOL SECTION
AQ300 3/32" = 1'-0"



1 LEISURE POOL PLAN
AQ300 3/32" = 1'-0"



2 LEISURE POOL SECTION
AQ300 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 |

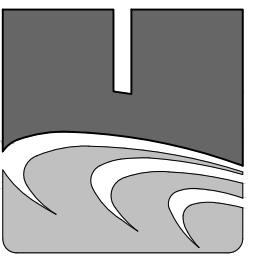
NOTE:
REFER: 11AQ301 FOR DETAIL.

EQUIPMENT SCHEDULE

| ID | ITEM |
|------|---|
| (1) | SAFETY ROPE CUP ANCHORS REFER: 11AQ301 |
| (2) | SAFETY ROPE |
| (3) | WING WALL REFER: 3AQ301 |
| (4) | ZERO ENTRY REFER: 7AQ301 |
| (5) | POOL COVE REFER: 2AQ301 |
| (6) | UNDERWATER BENCH REFER: 9AQ301 |
| (7) | POOL LIFT & ANCHOR REFER: 5AQ302 |
| (8) | WING WALL RAILING REFER: 3AQ302 |
| (9) | FOAMING GEYSER 2 REFER: 7AQ302 |
| (10) | WATER BUG 2 REFER: 8AQ302 |
| (11) | FROG SLIDE REFER: 12AQ302 |
| (12) | ROOSTER TAIL REFER: 9AQ302 |
| (13) | DIRECTIONAL JET 3 REFER: 6AQ302 |
| (14) | TEAM SPRAY 1 REFER: 10AQ302 |
| (15) | FLOWER FLOATABLE REFER: 4AQ302 |
| (16) | SPRIG 2 REFER: 2AQ303 |
| (17) | BUTTERFLY 1 REFER: 3AQ303 |
| (18) | CASCADE LOOP REFER: 14AQ303 |
| (19) | TUNNEL SPRAY 1 REFER: 15AQ303 |
| (20) | RIO NANO 1 REFER: 1AQ303 |
| (21) | LOG FLOATABLE REFER: 11AQ302 |
| (22) | LILY PAD FLOATABLE REFER: 11AQ302 |



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BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER
WORLD

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

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|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
DRAWN BY: KAS
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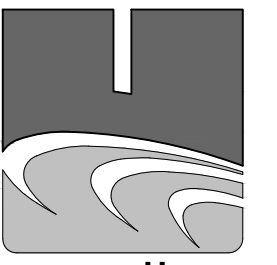
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DRAWING TITLE
LEISURE POOL PLAN
& SECTIONS

AQ300



CLIENT
**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
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PROJECT NO: 20224620

DRAWN BY: KAS

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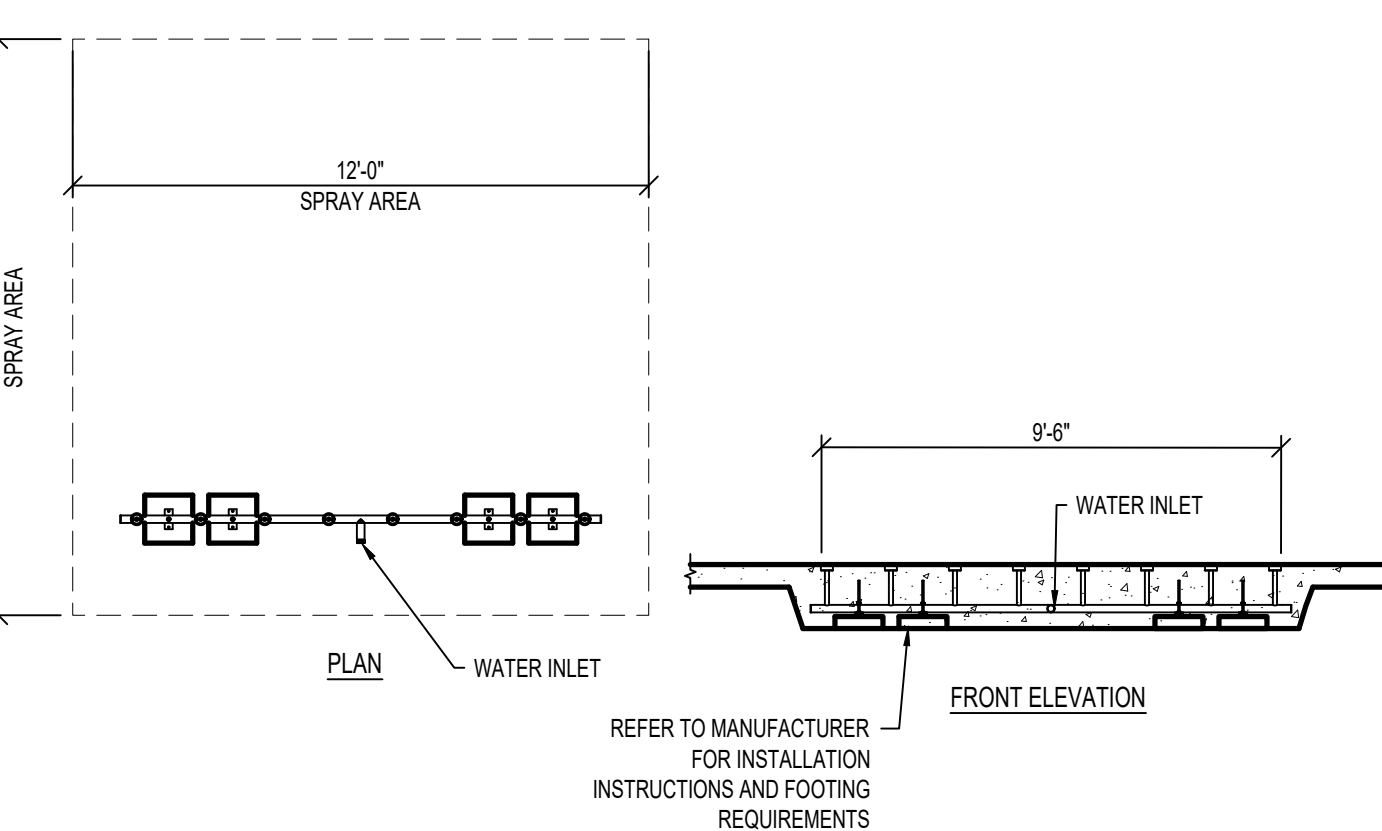
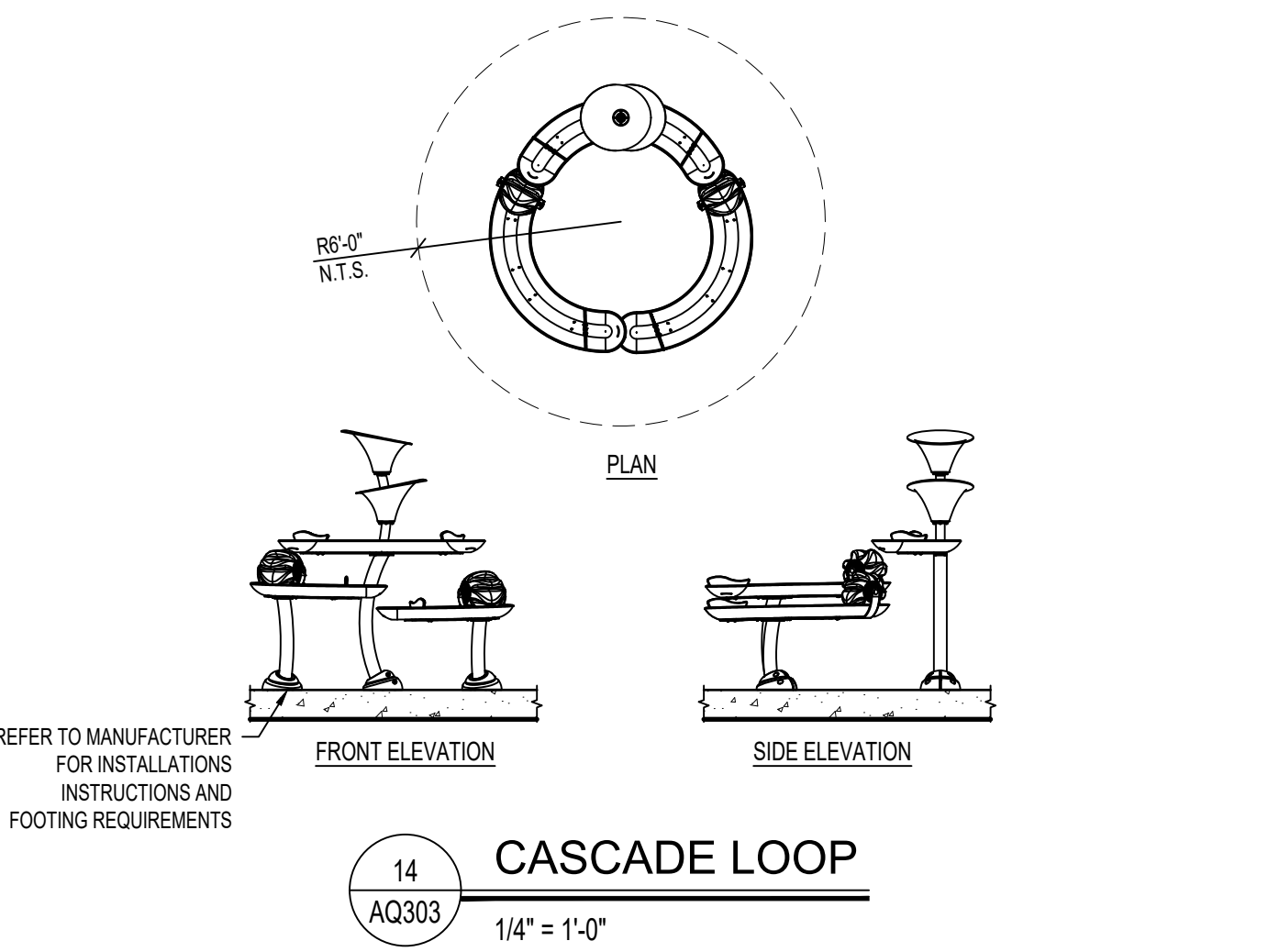
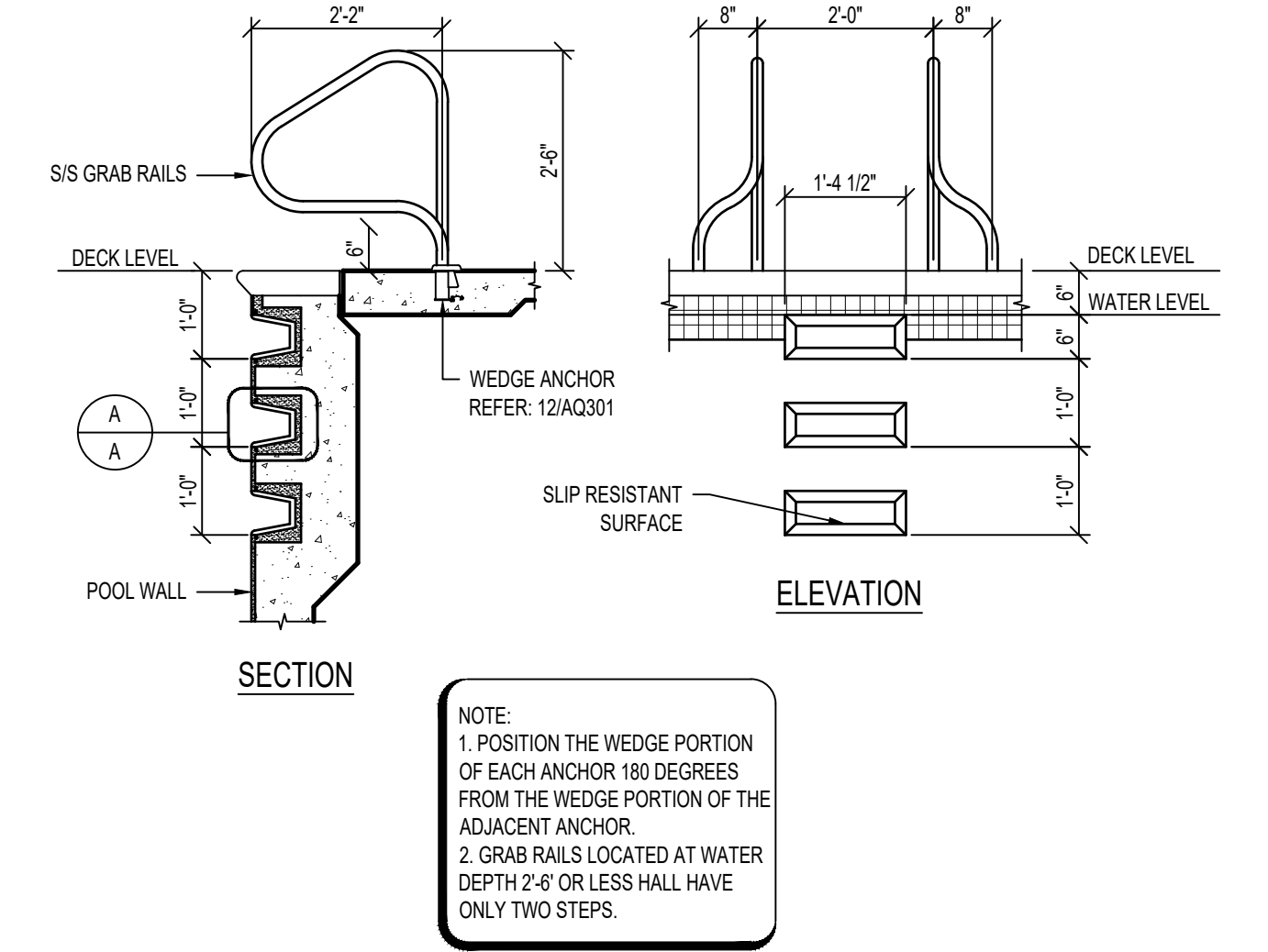
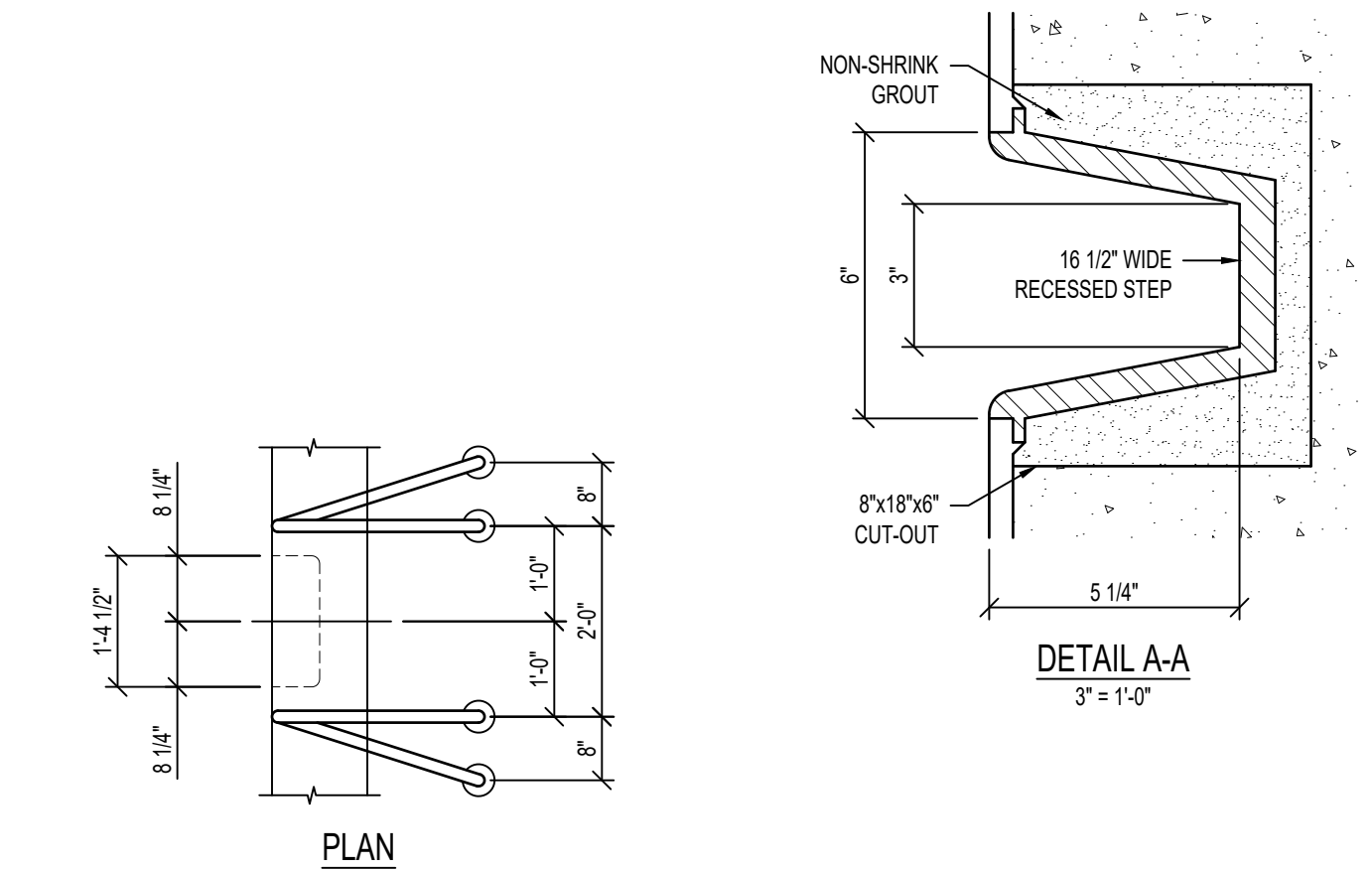
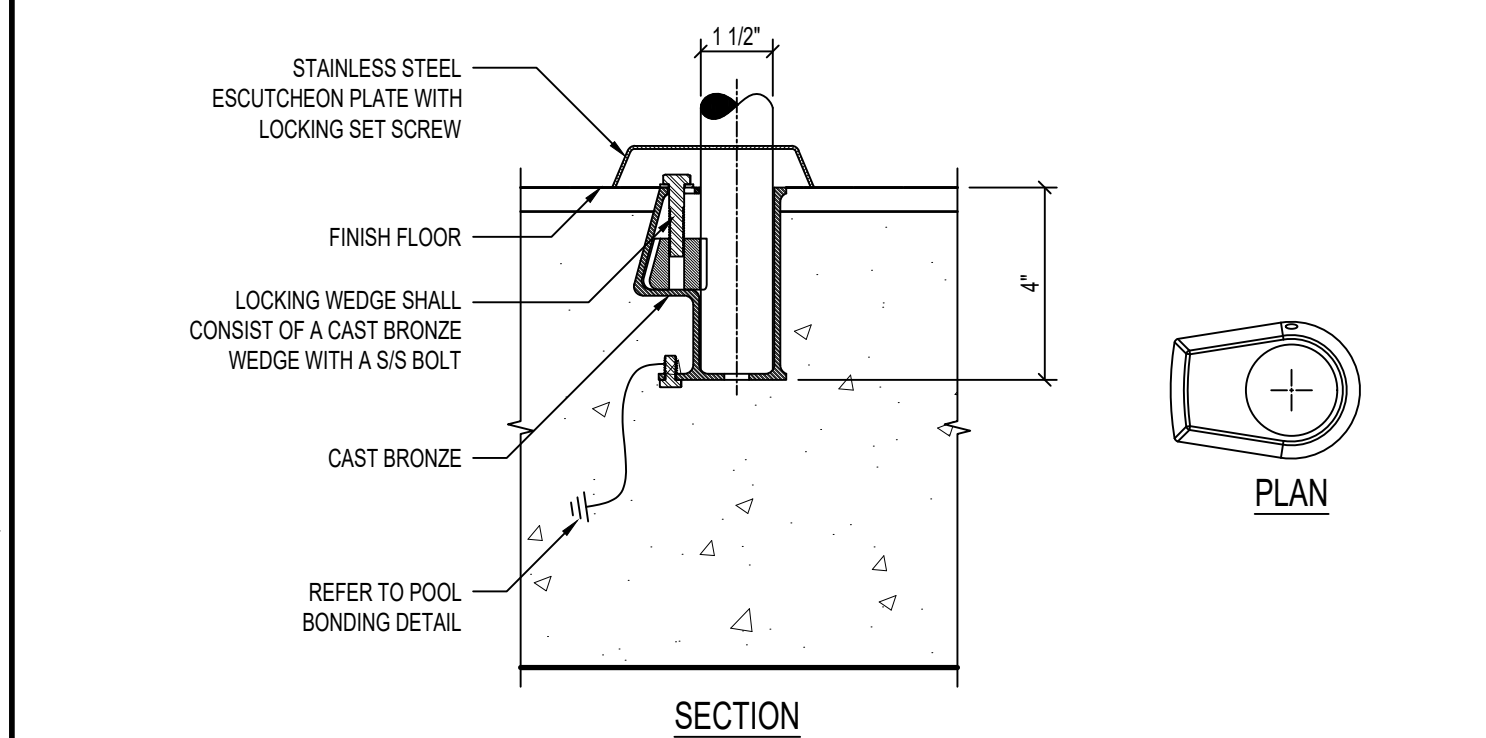
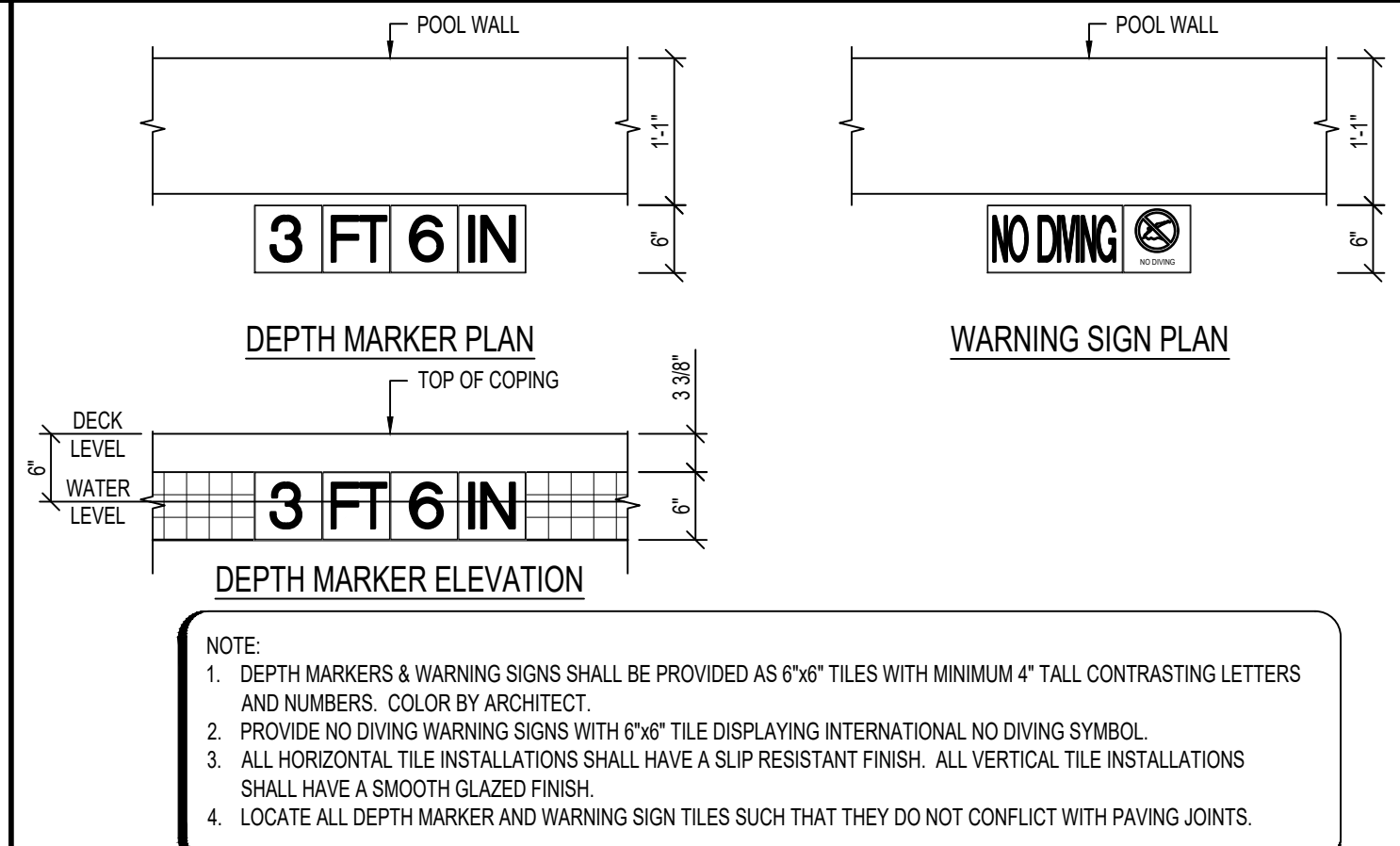
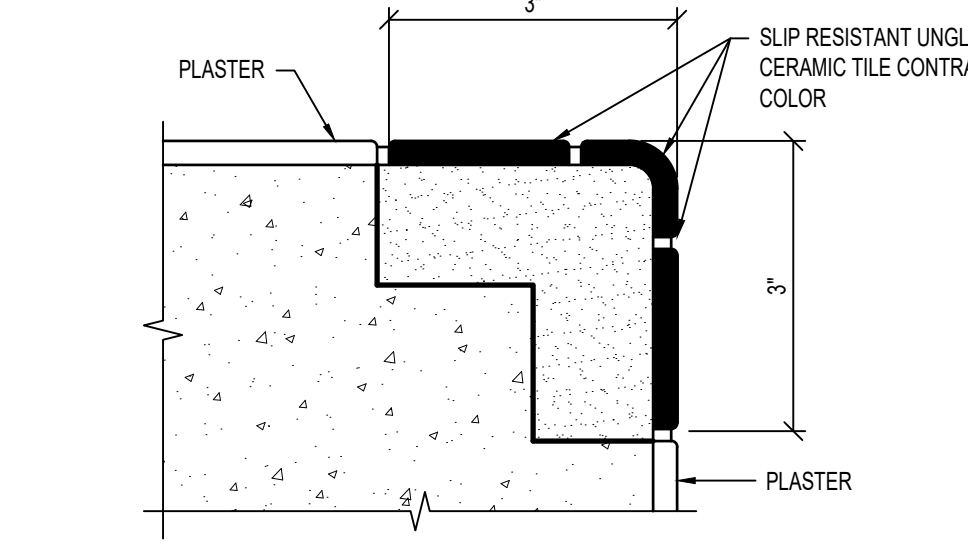
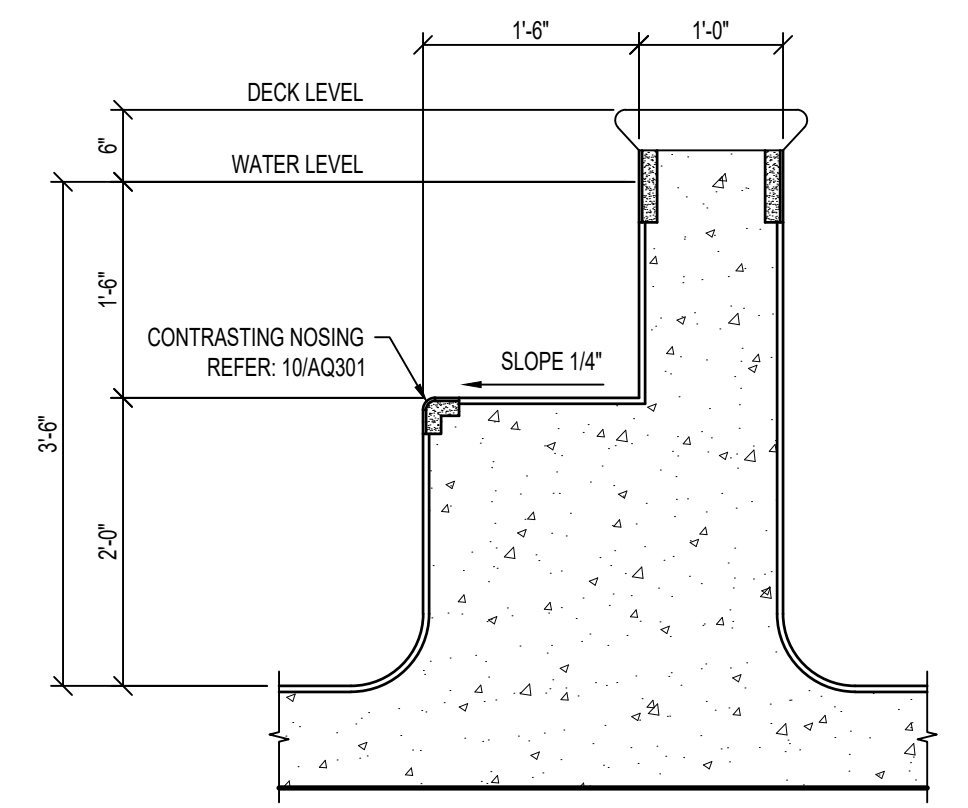
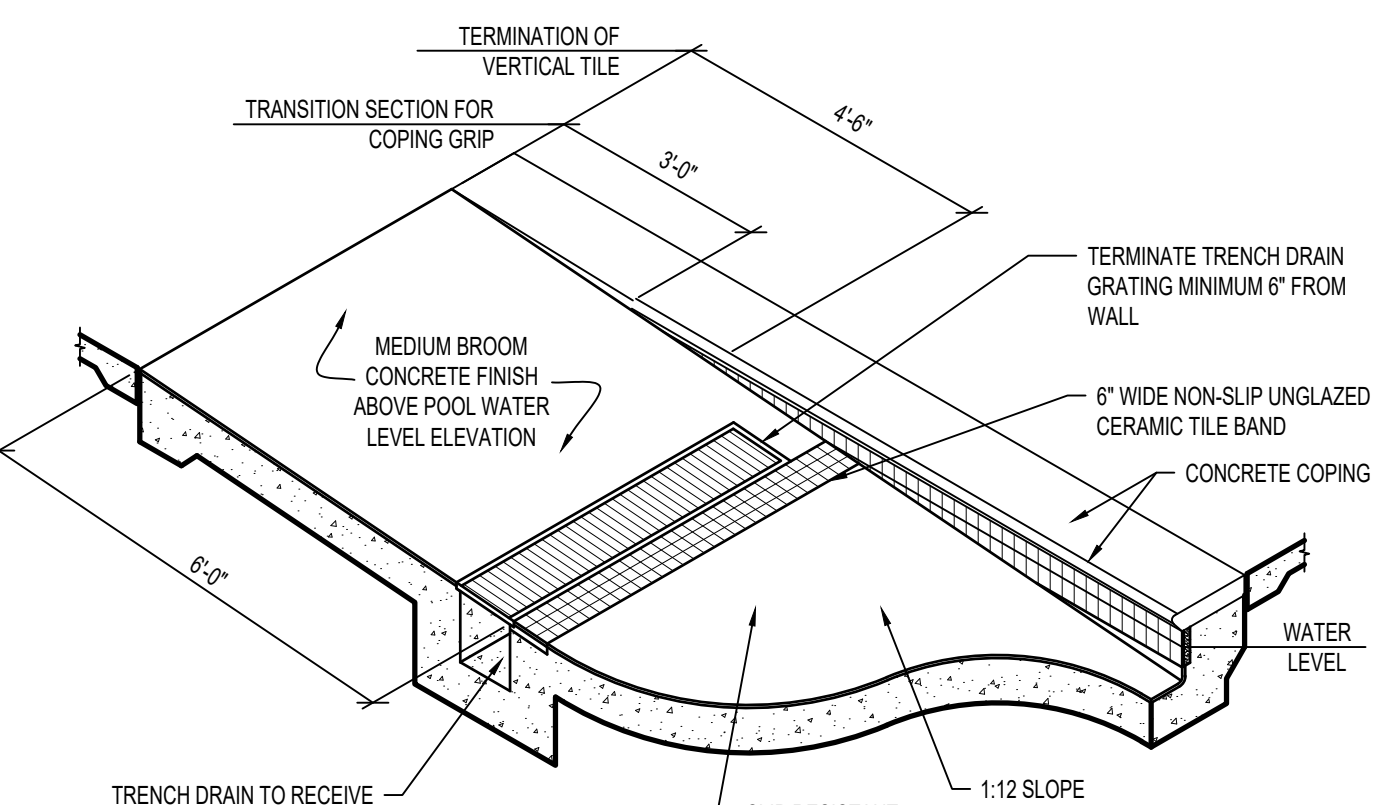
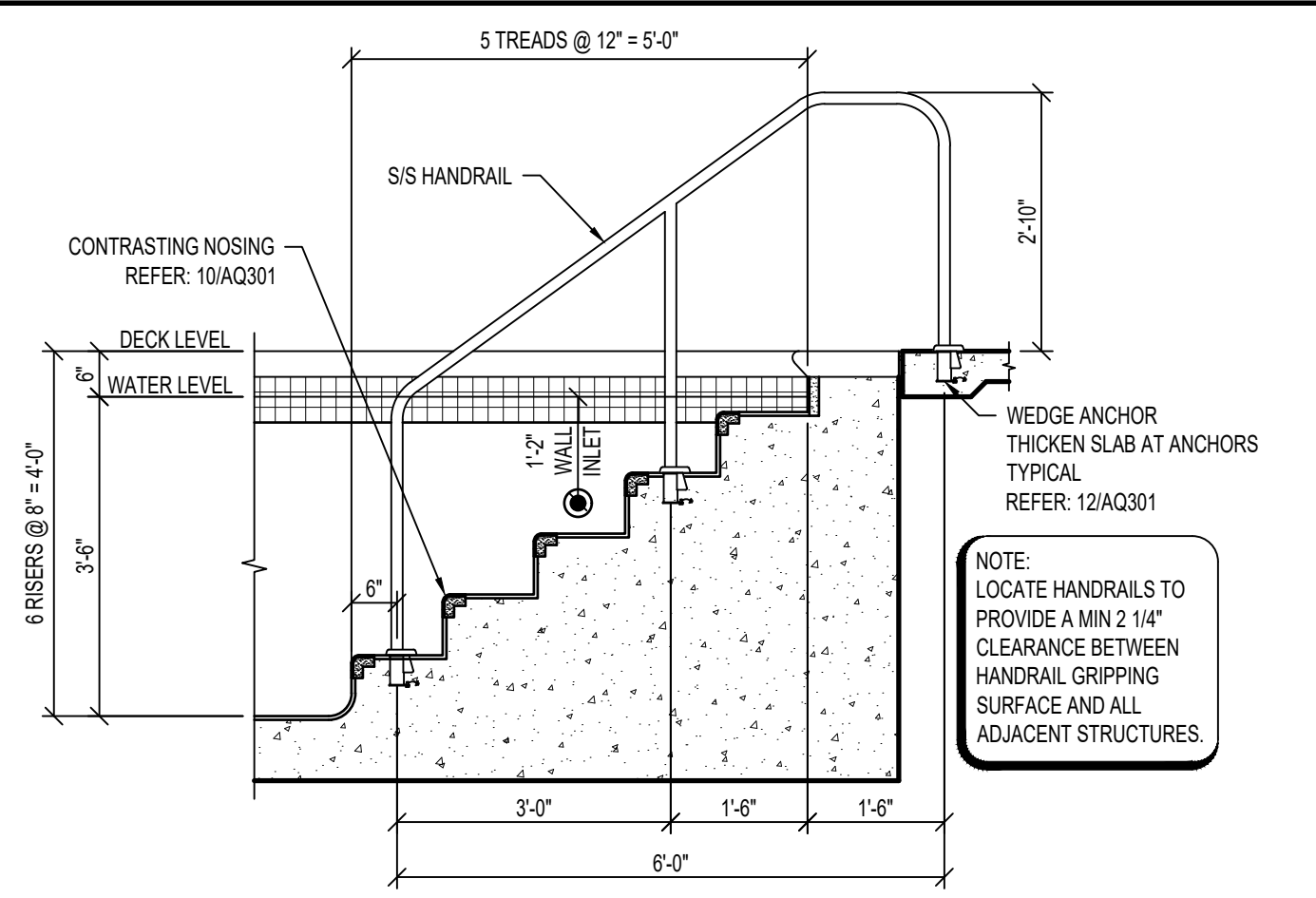
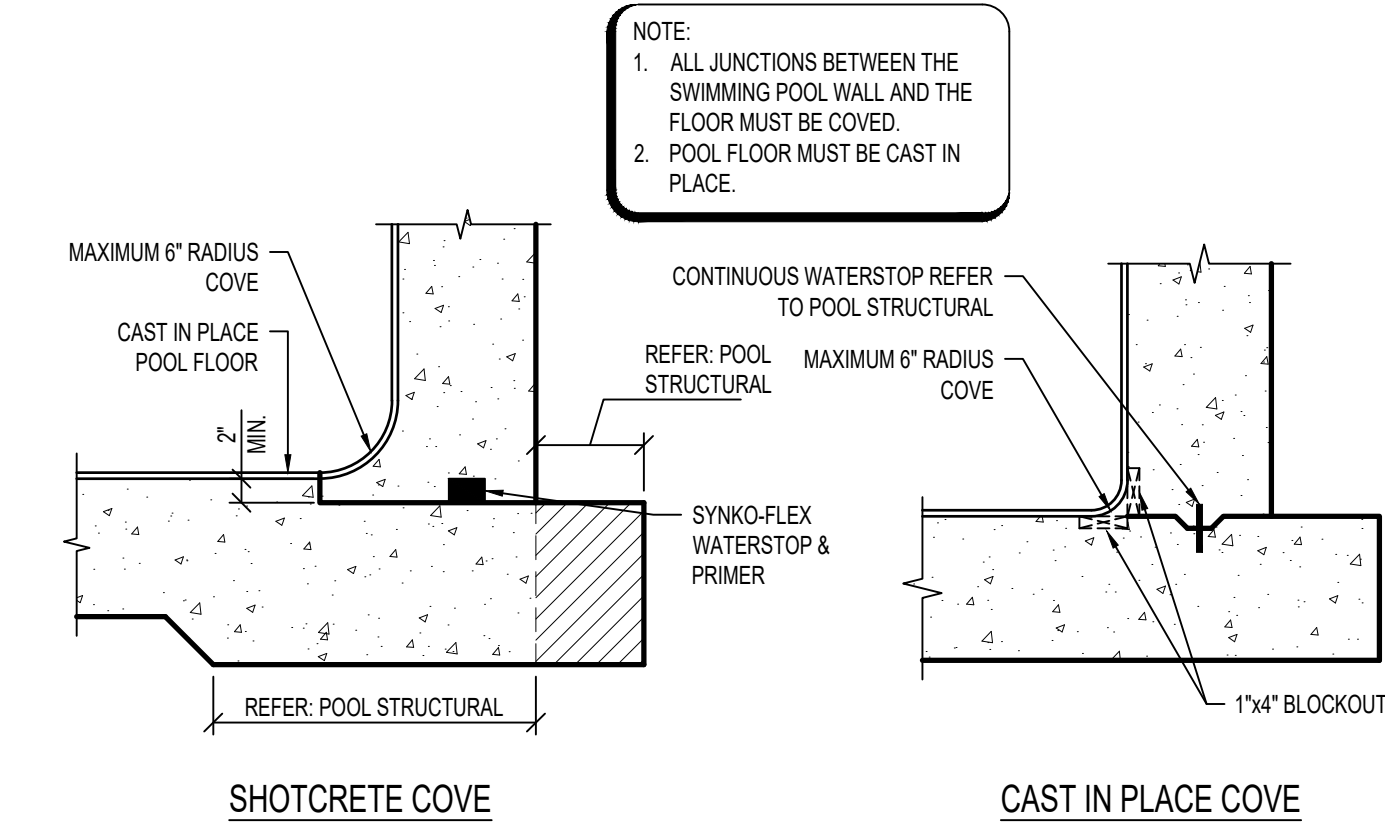
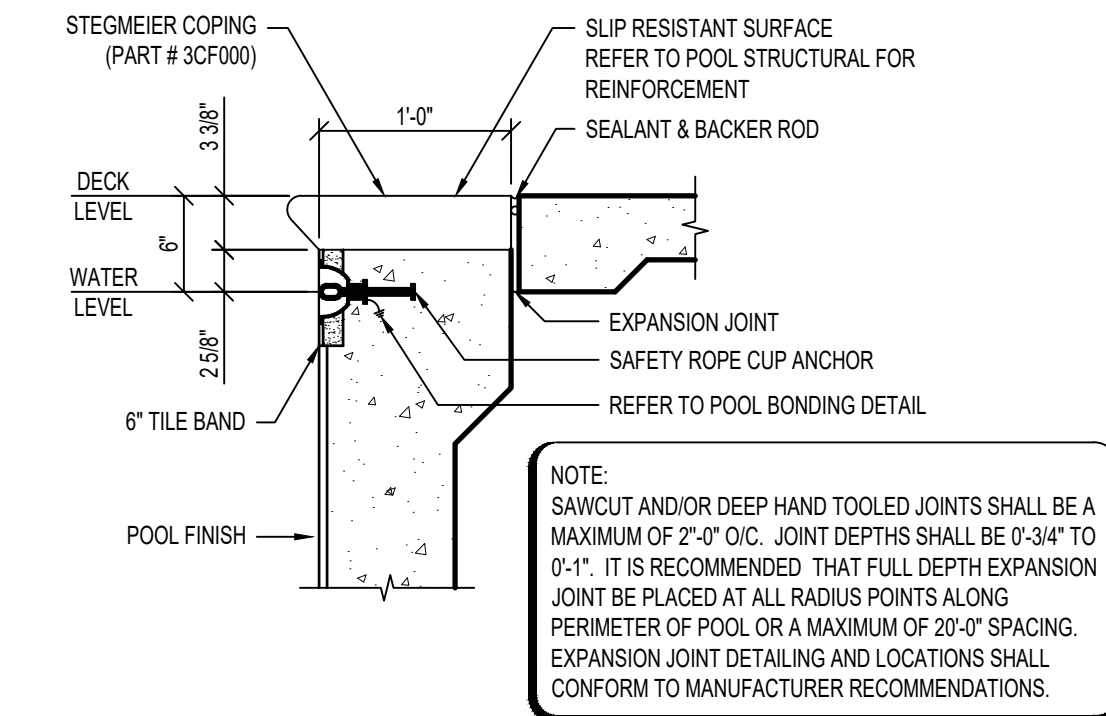
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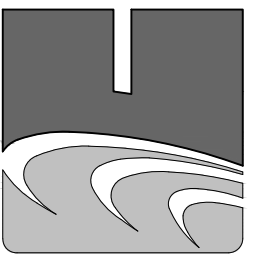
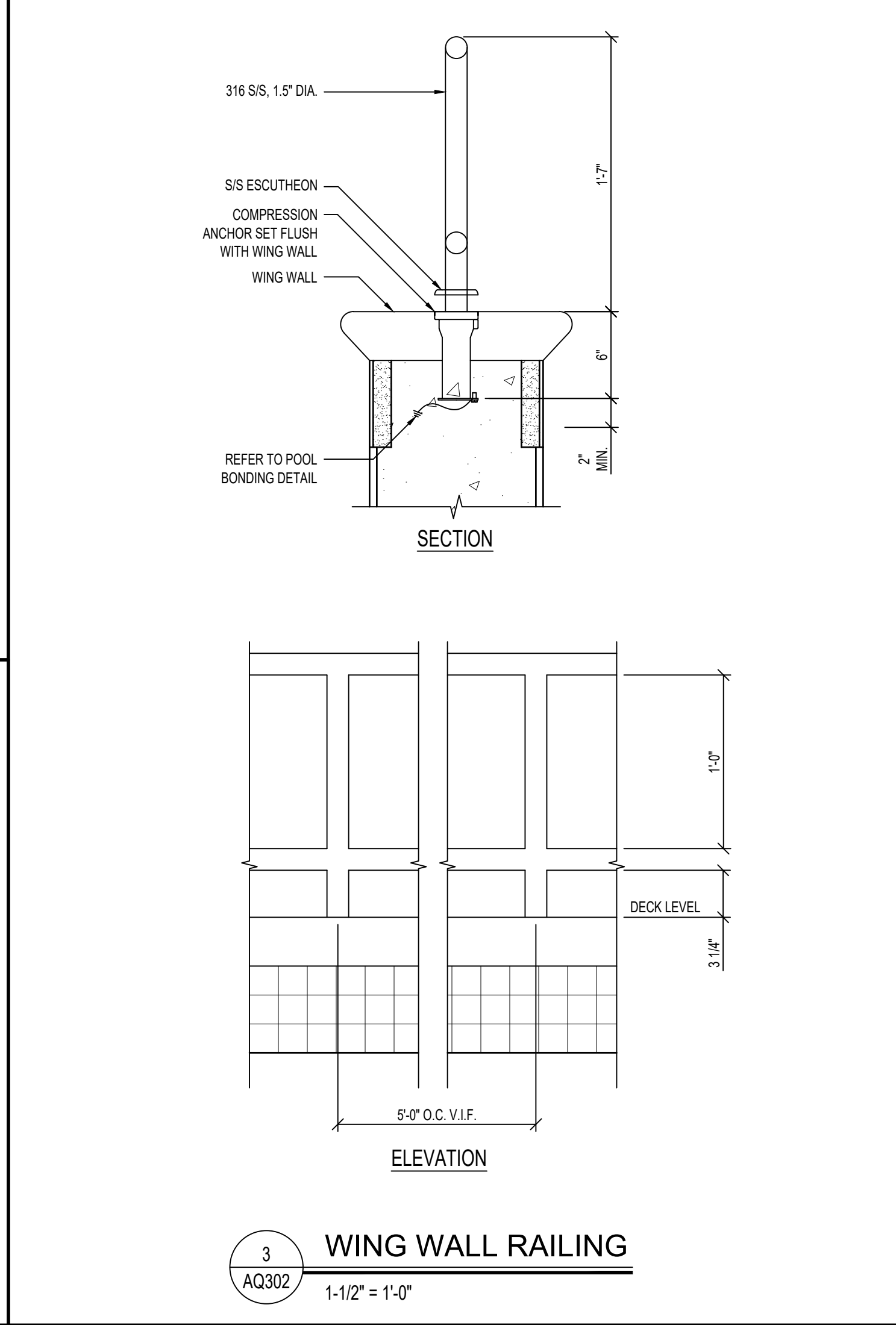
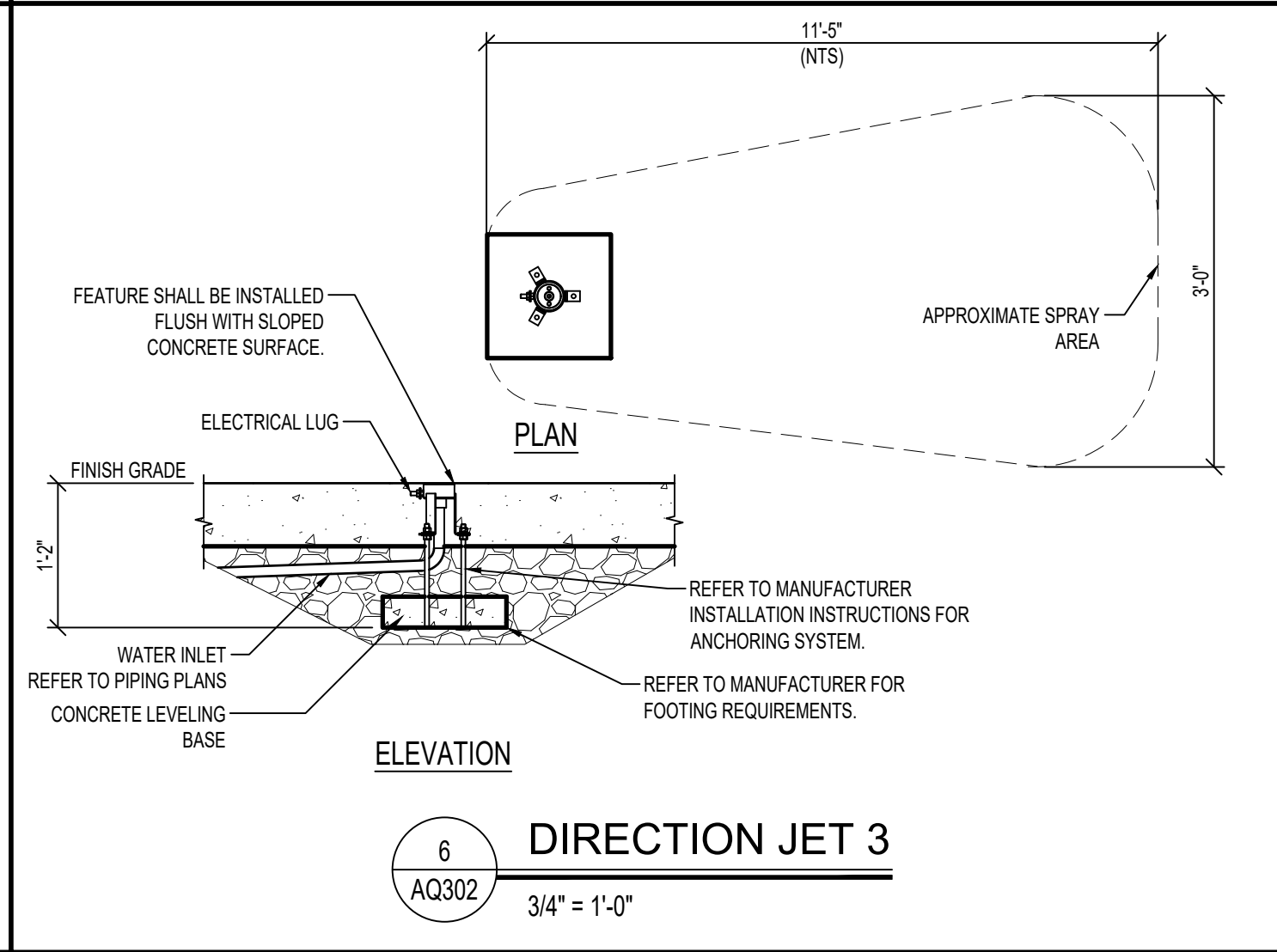
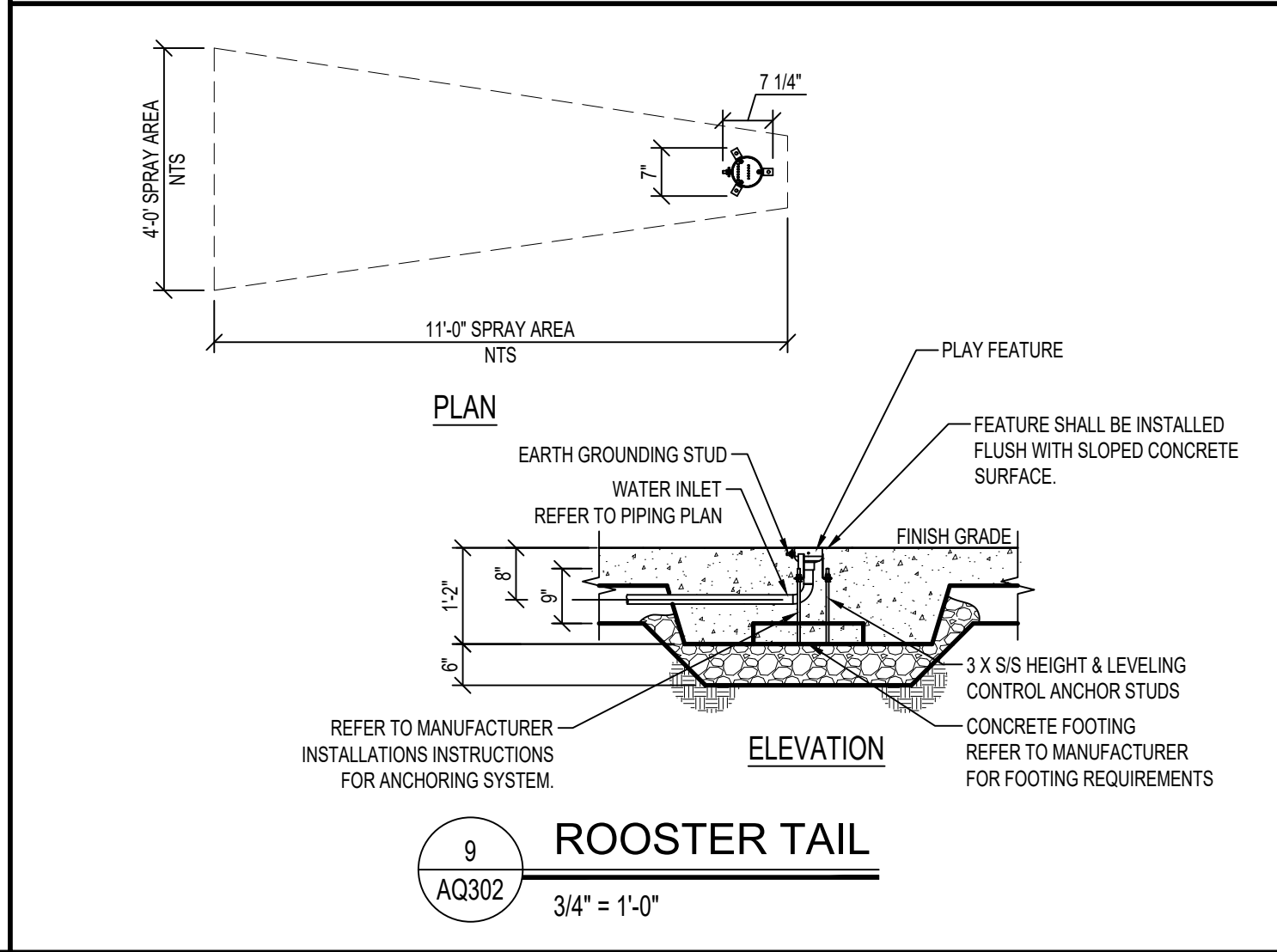
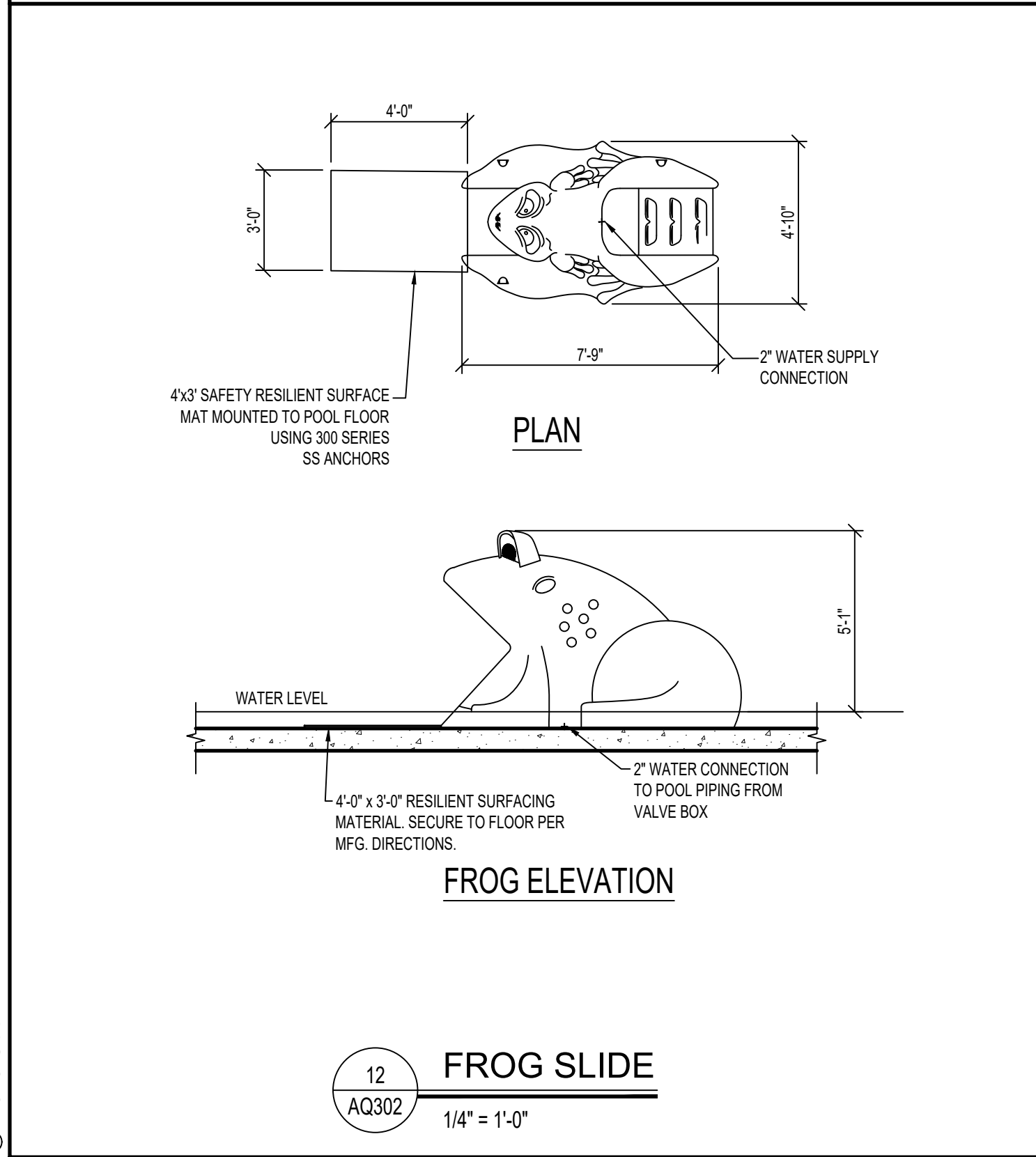
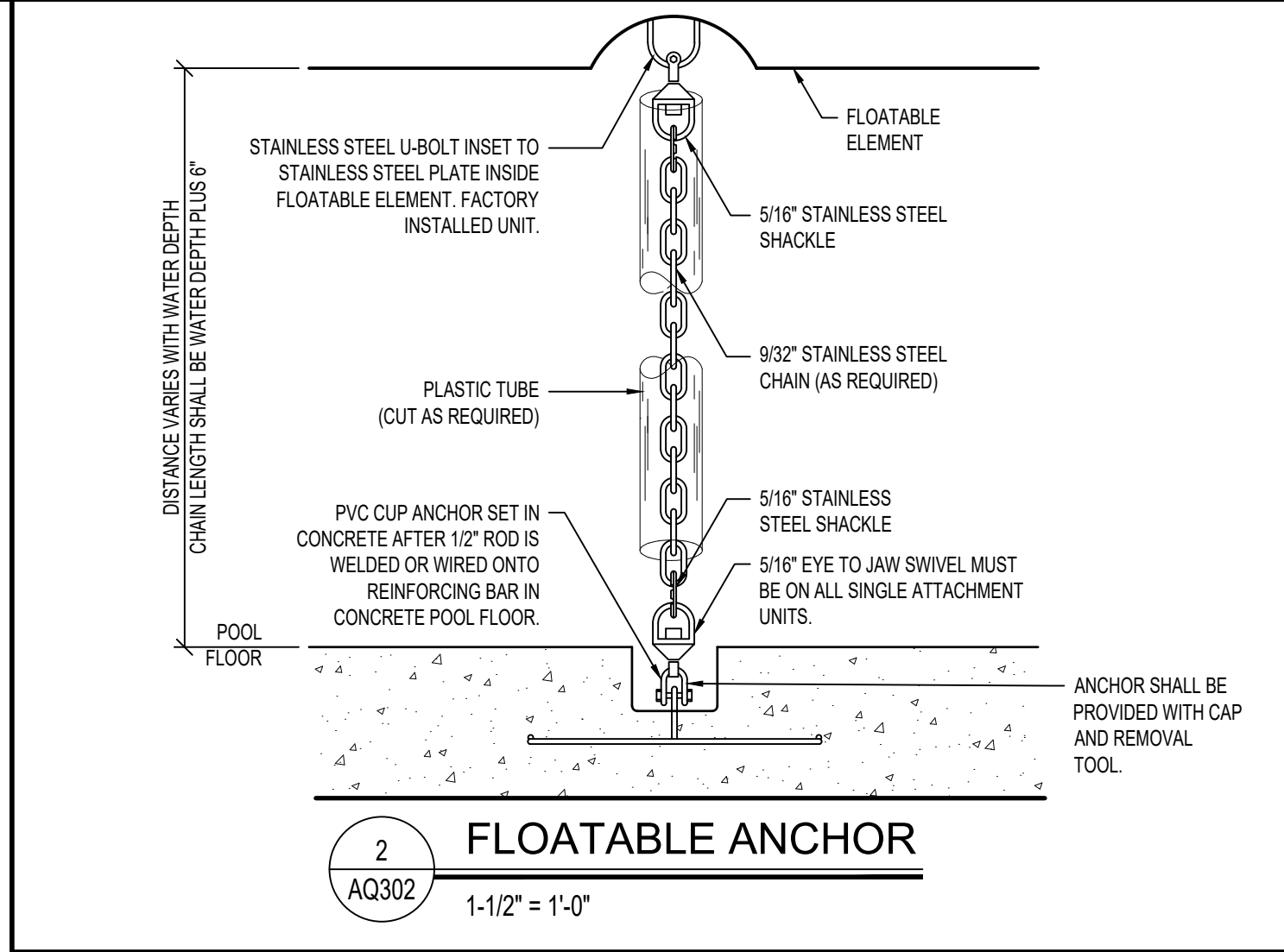
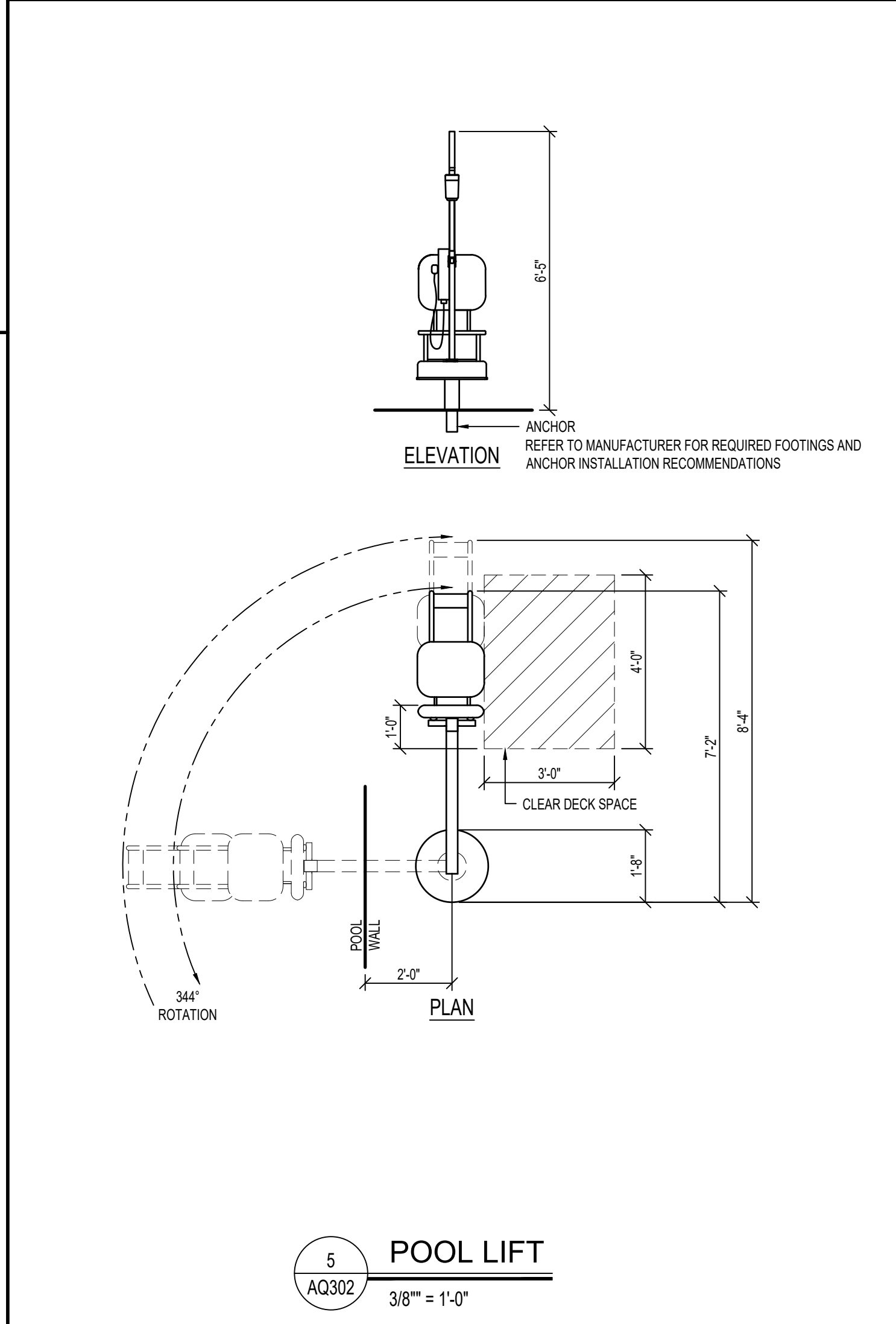
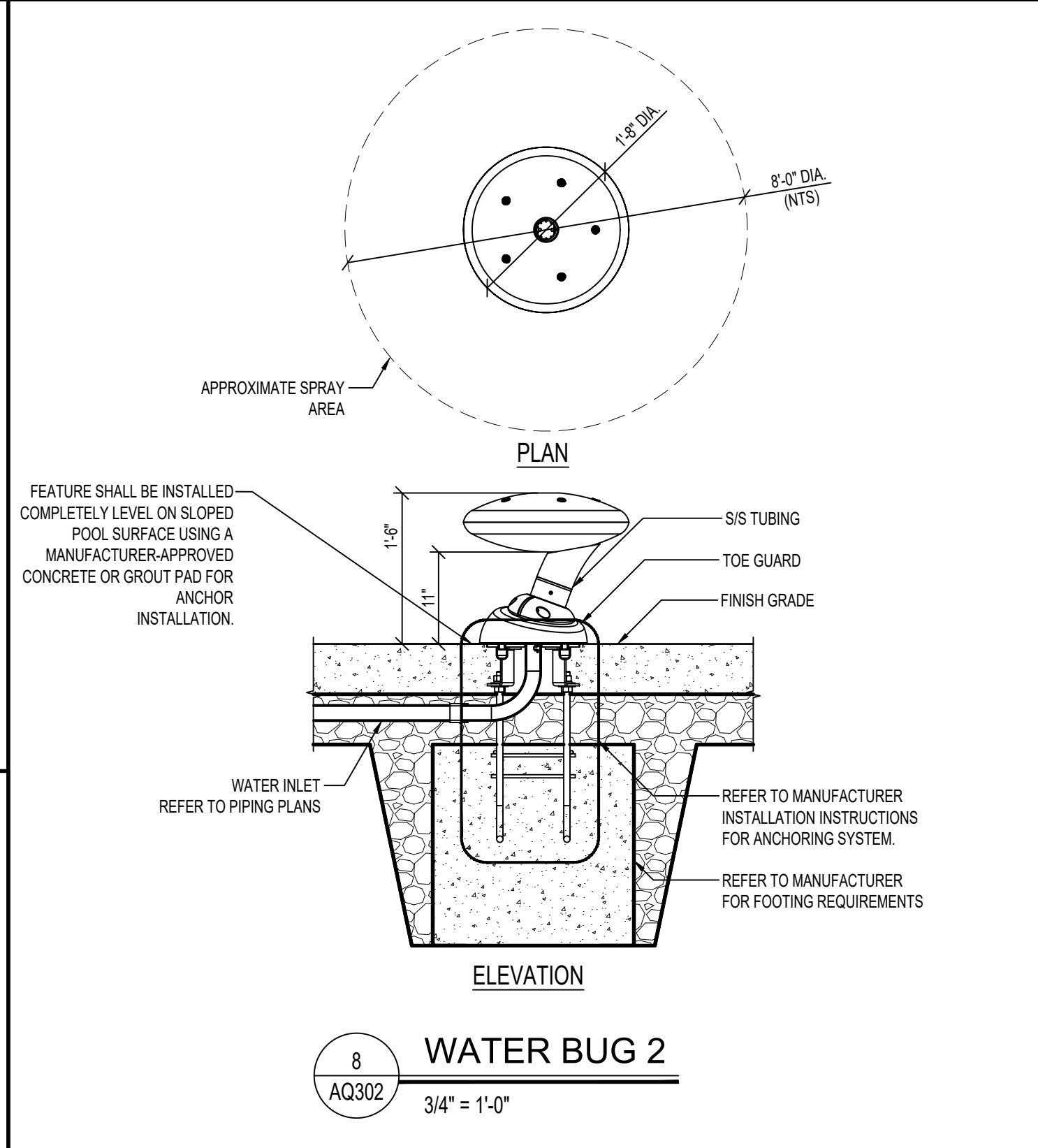
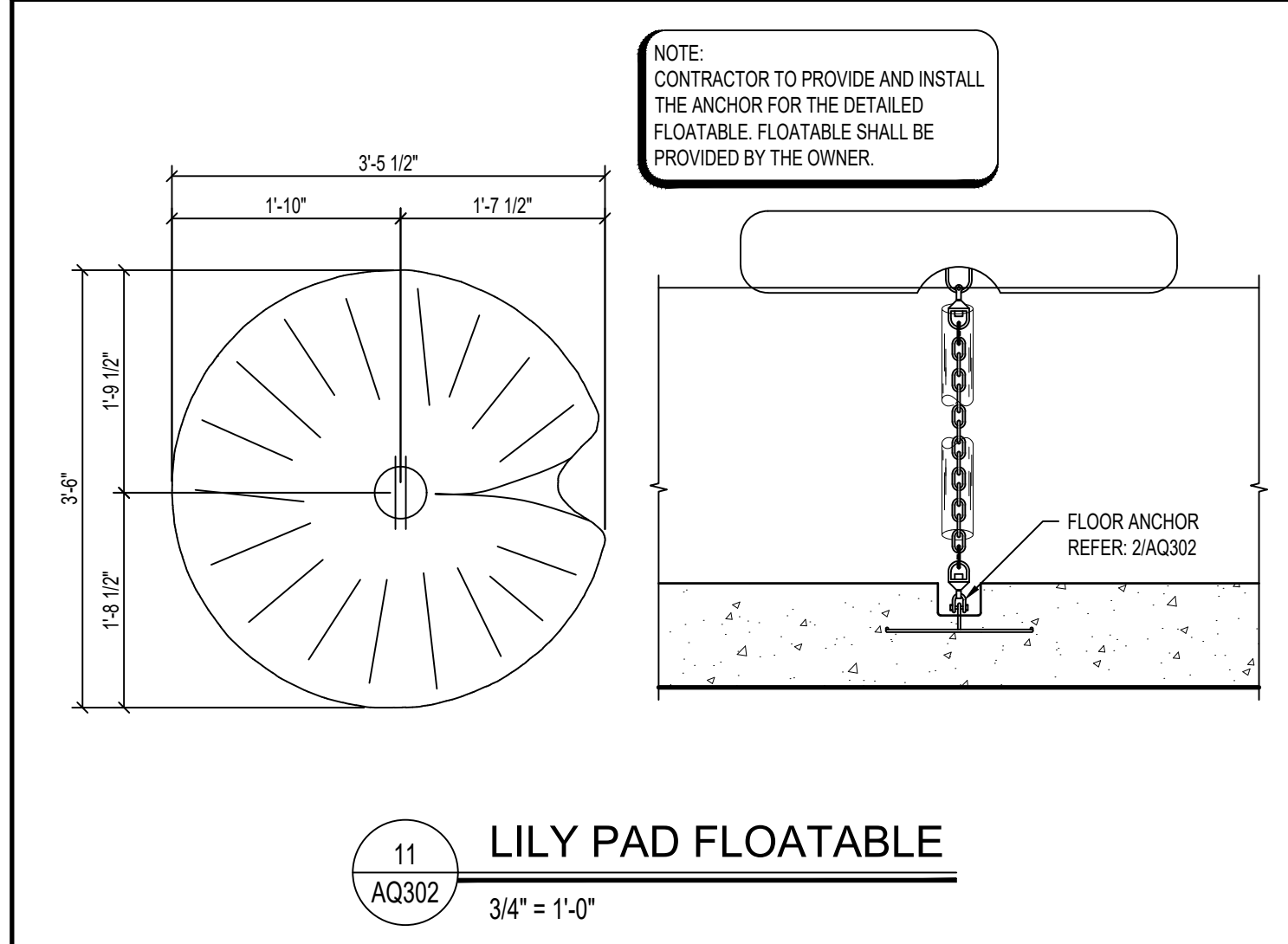
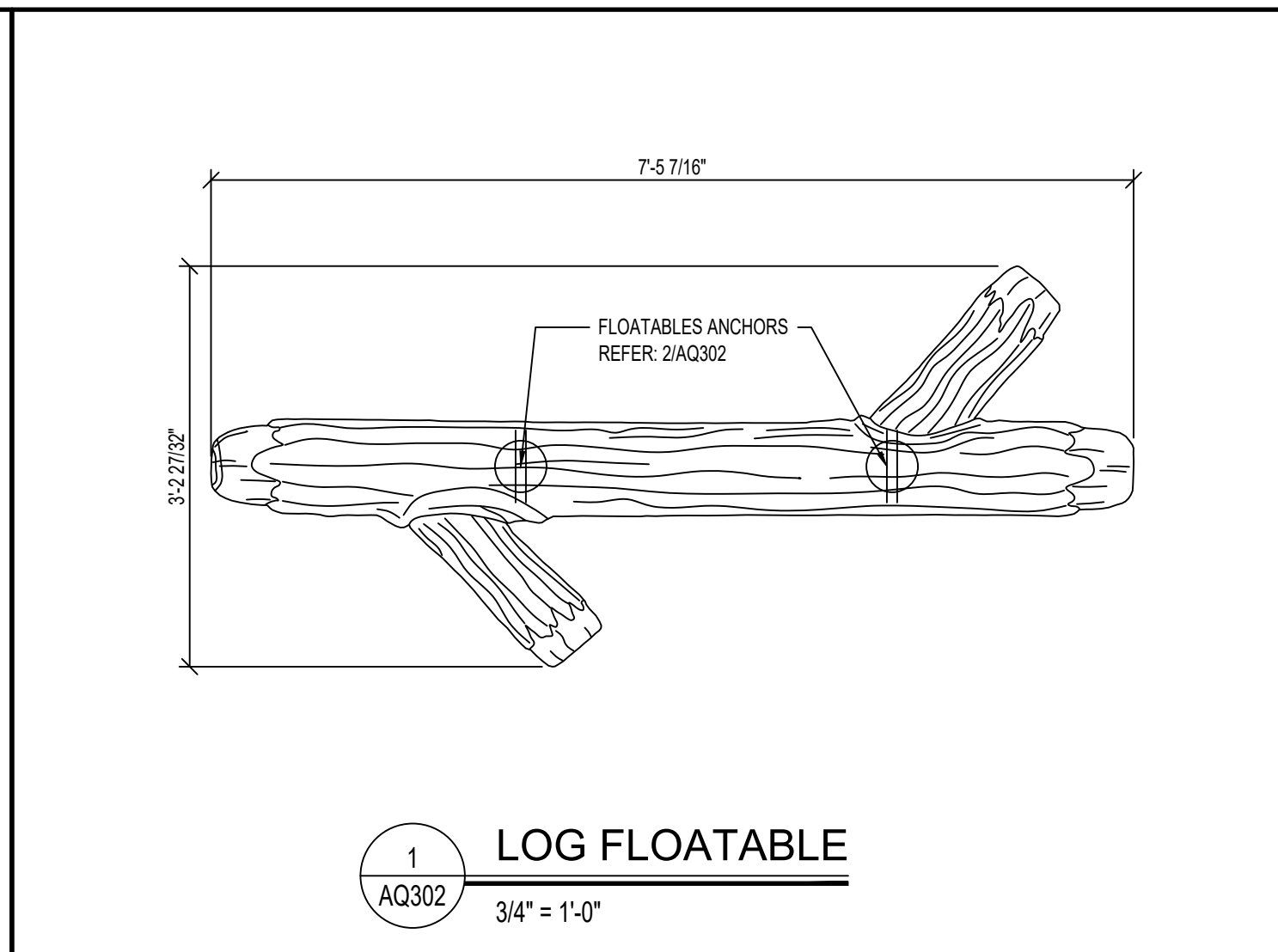
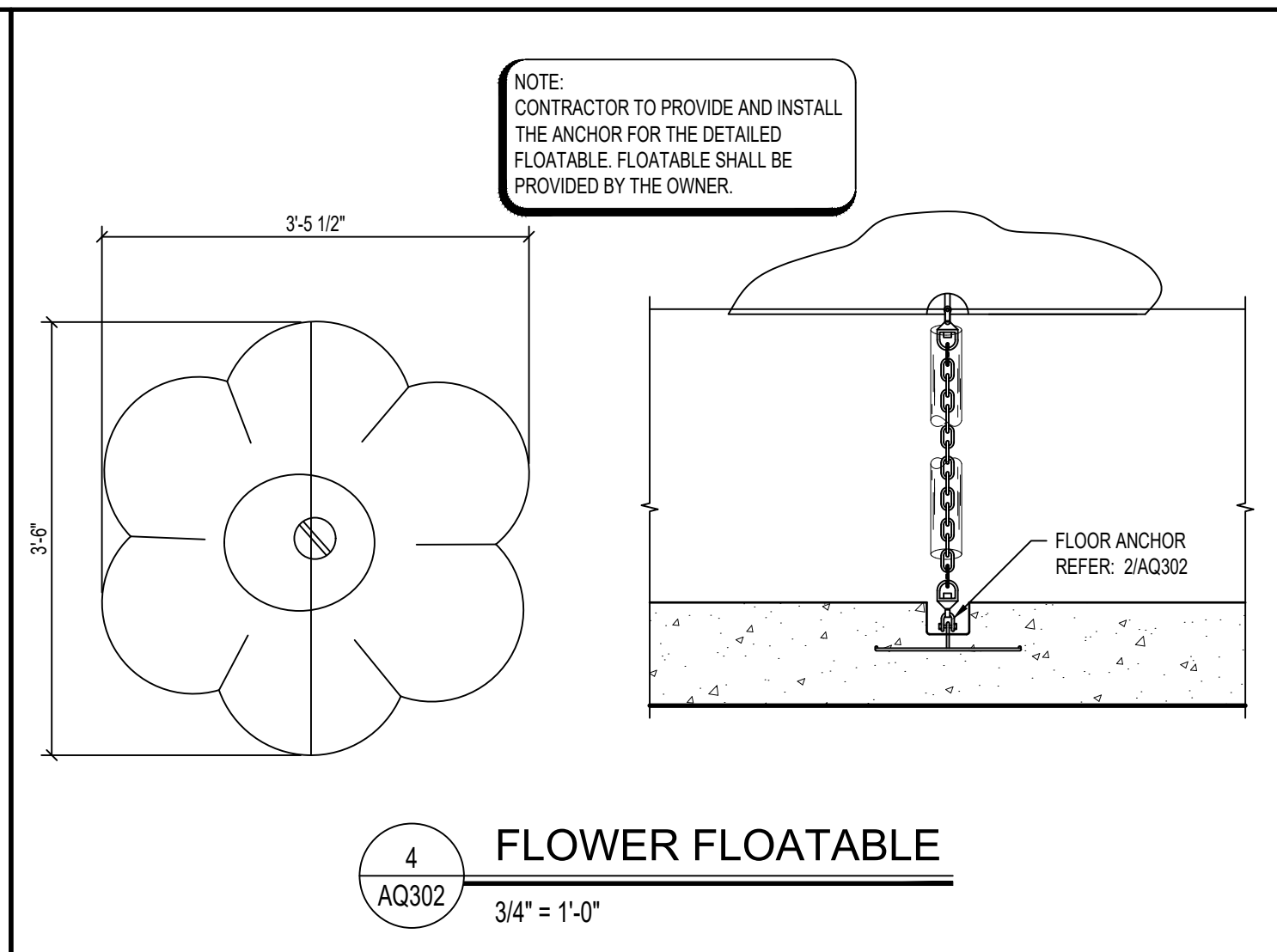
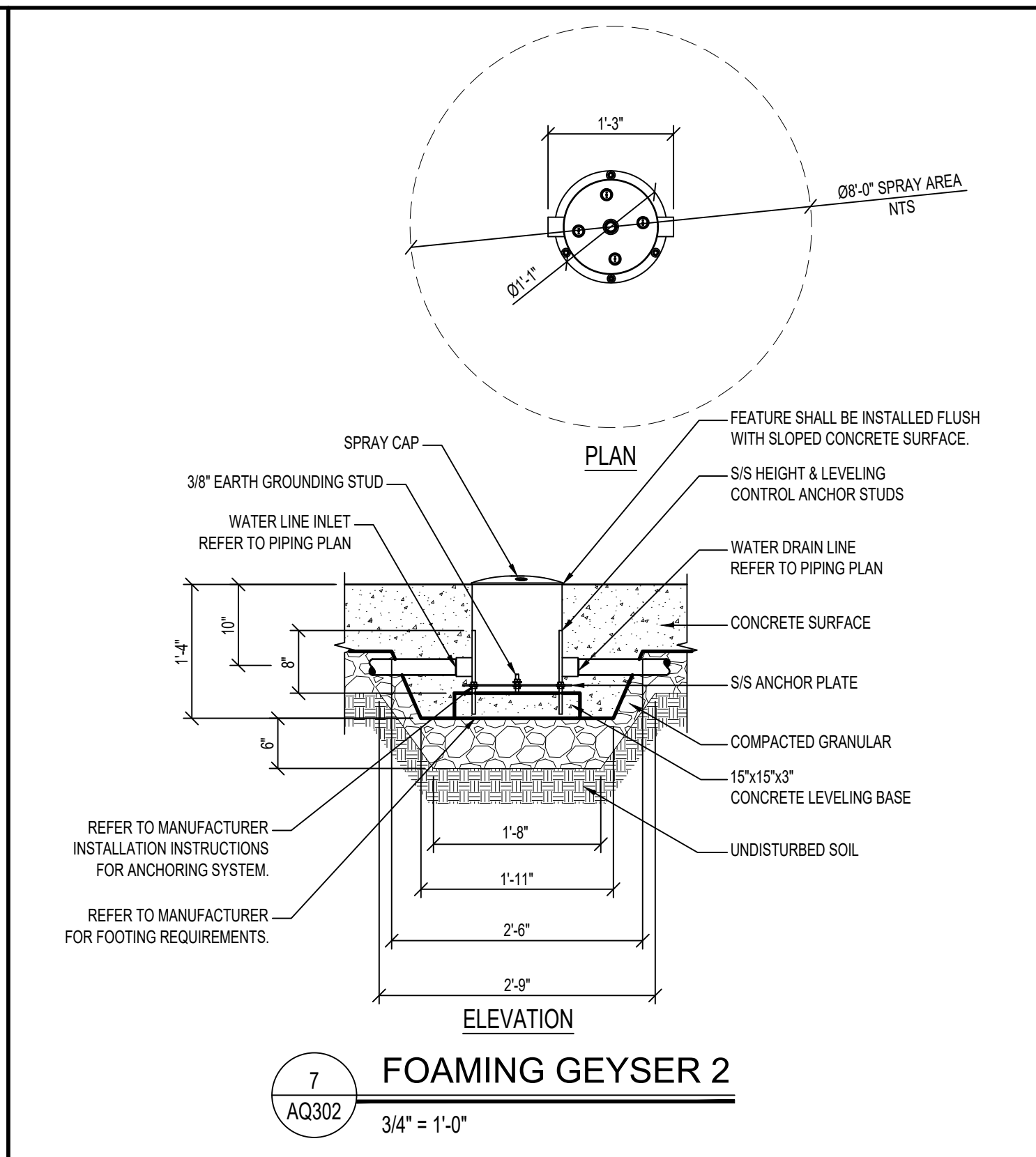
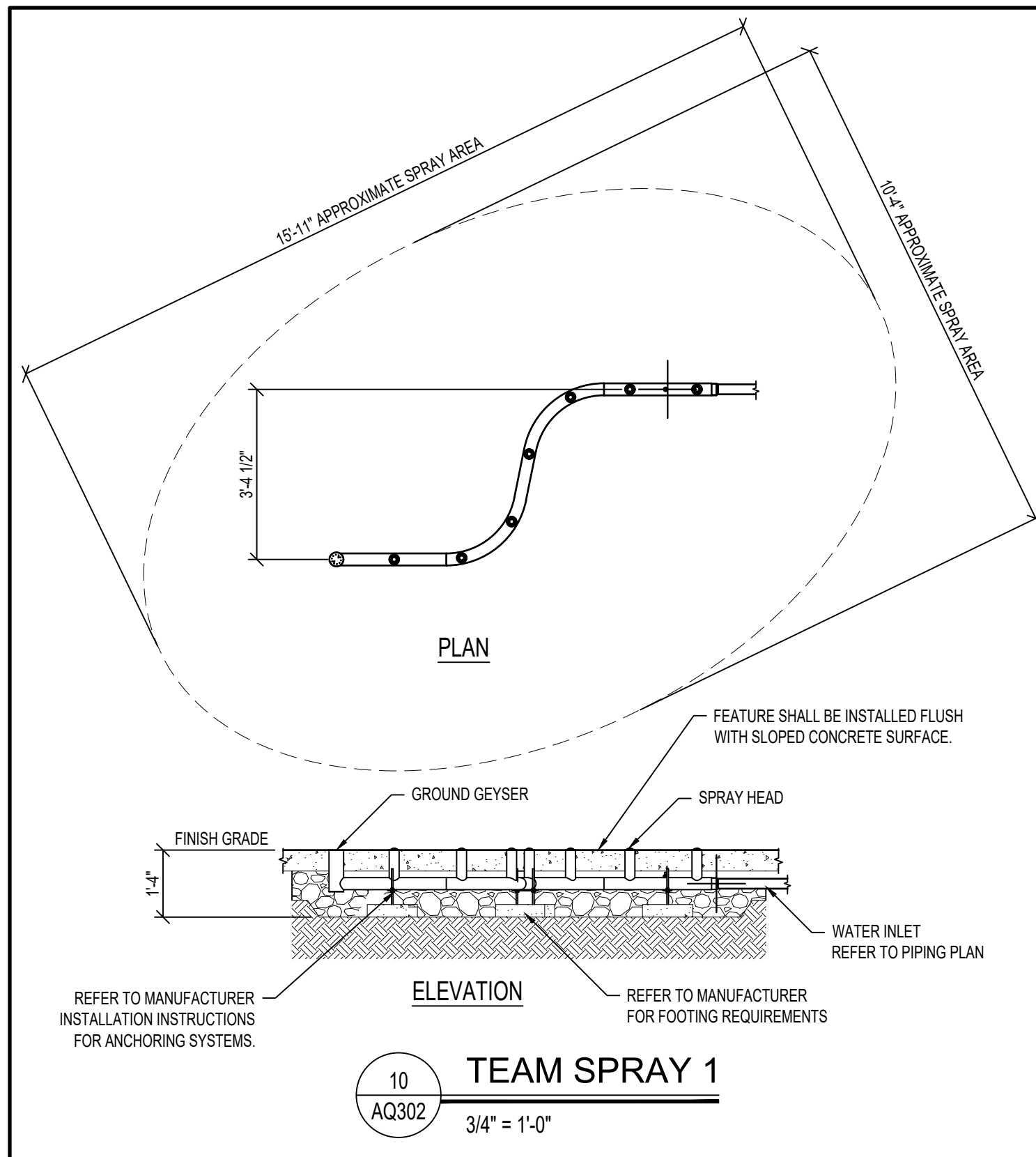
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DRAWING TITLE
LEISURE POOL DETAILS

AQ301





CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

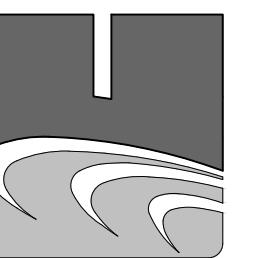
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DRAWING TITLE
LEISURE POOL DETAILS



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**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

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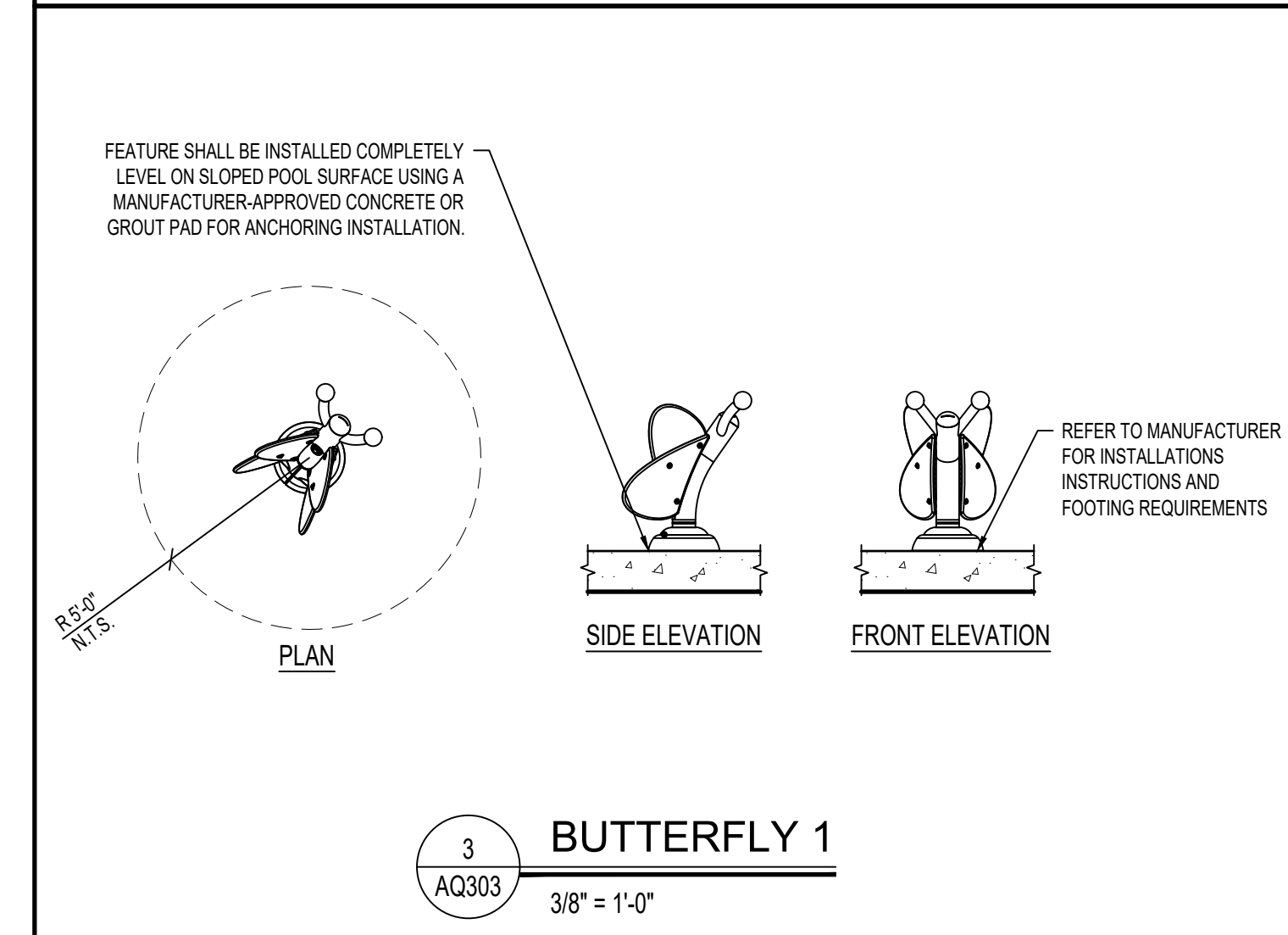
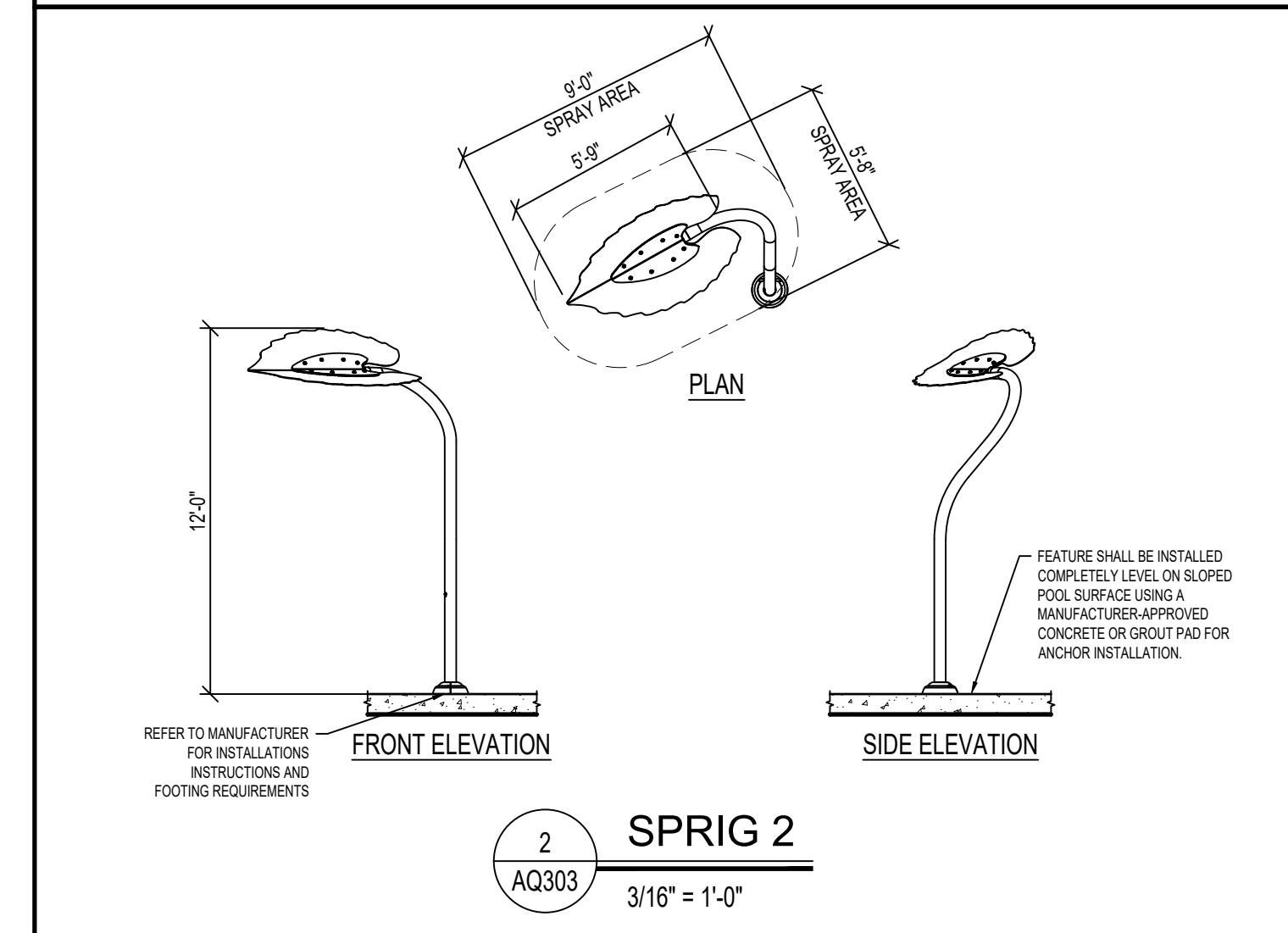
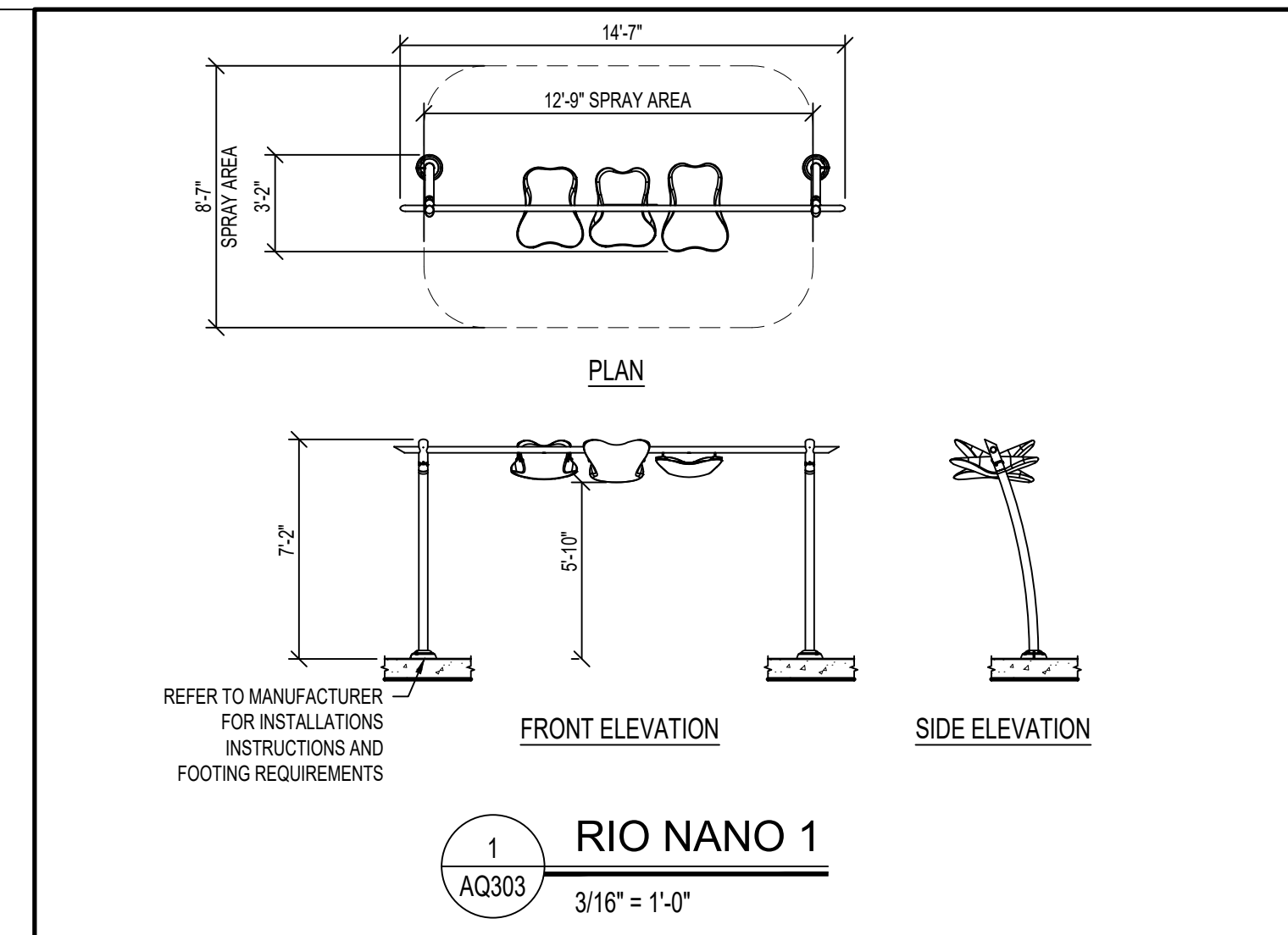
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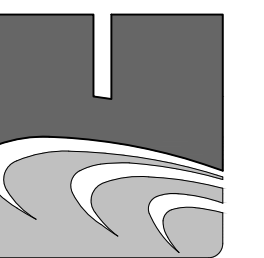
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DRAWING TITLE
LEISURE POOL DETAILS

AQ303





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WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

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DRAWING TITLE
WATERSLIDE PLAN, ELEVATION & DETAILS

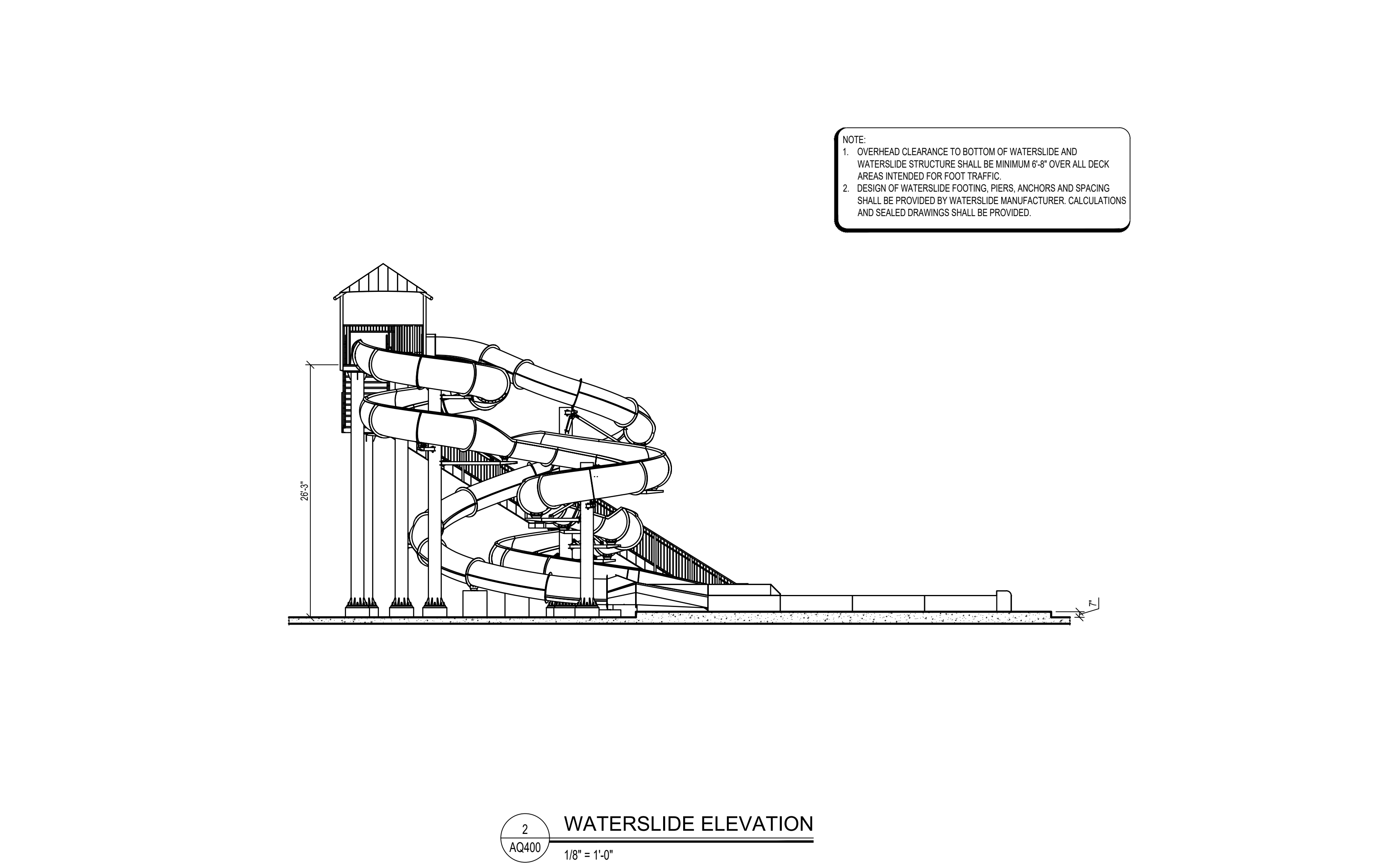
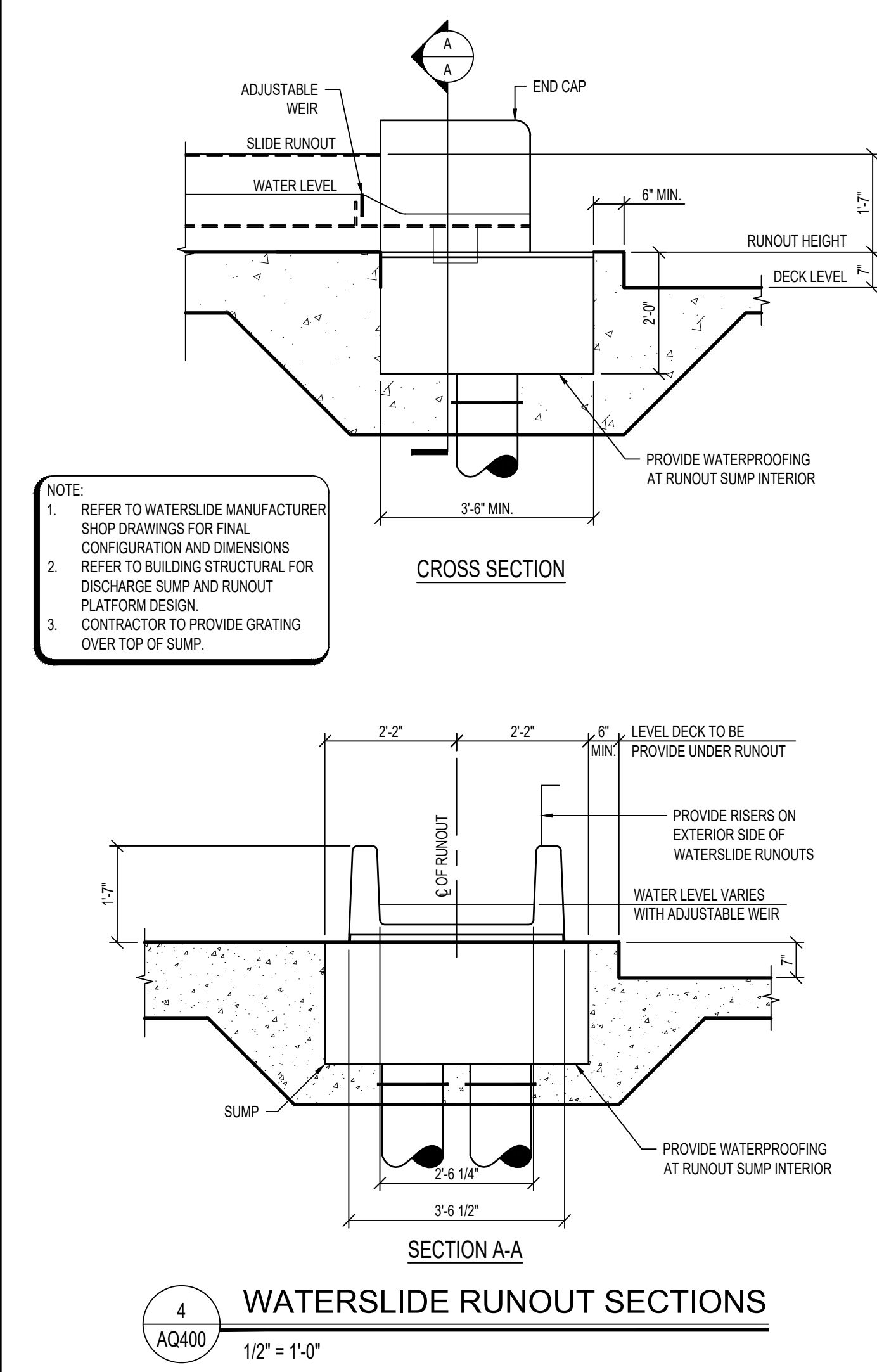
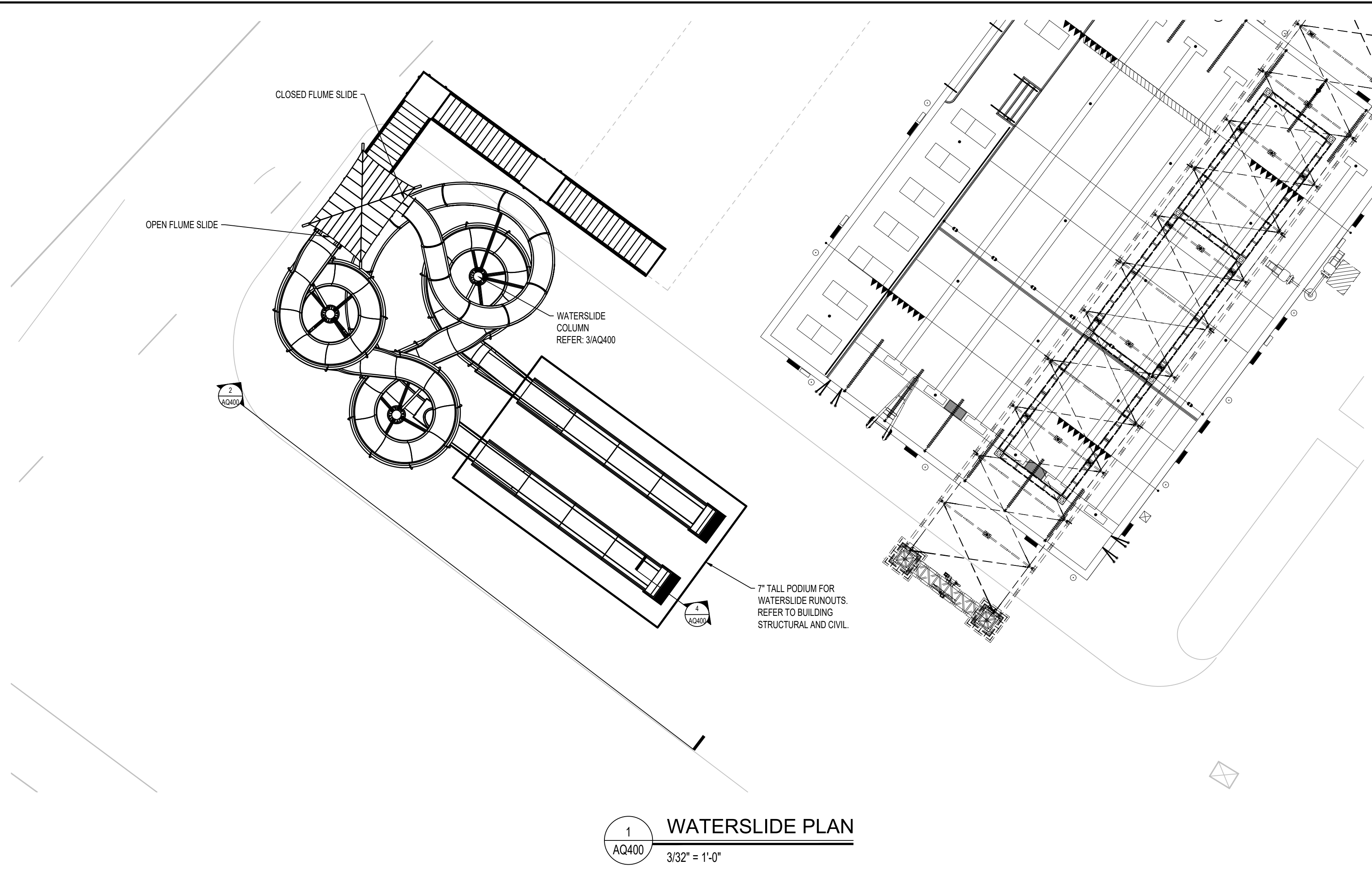
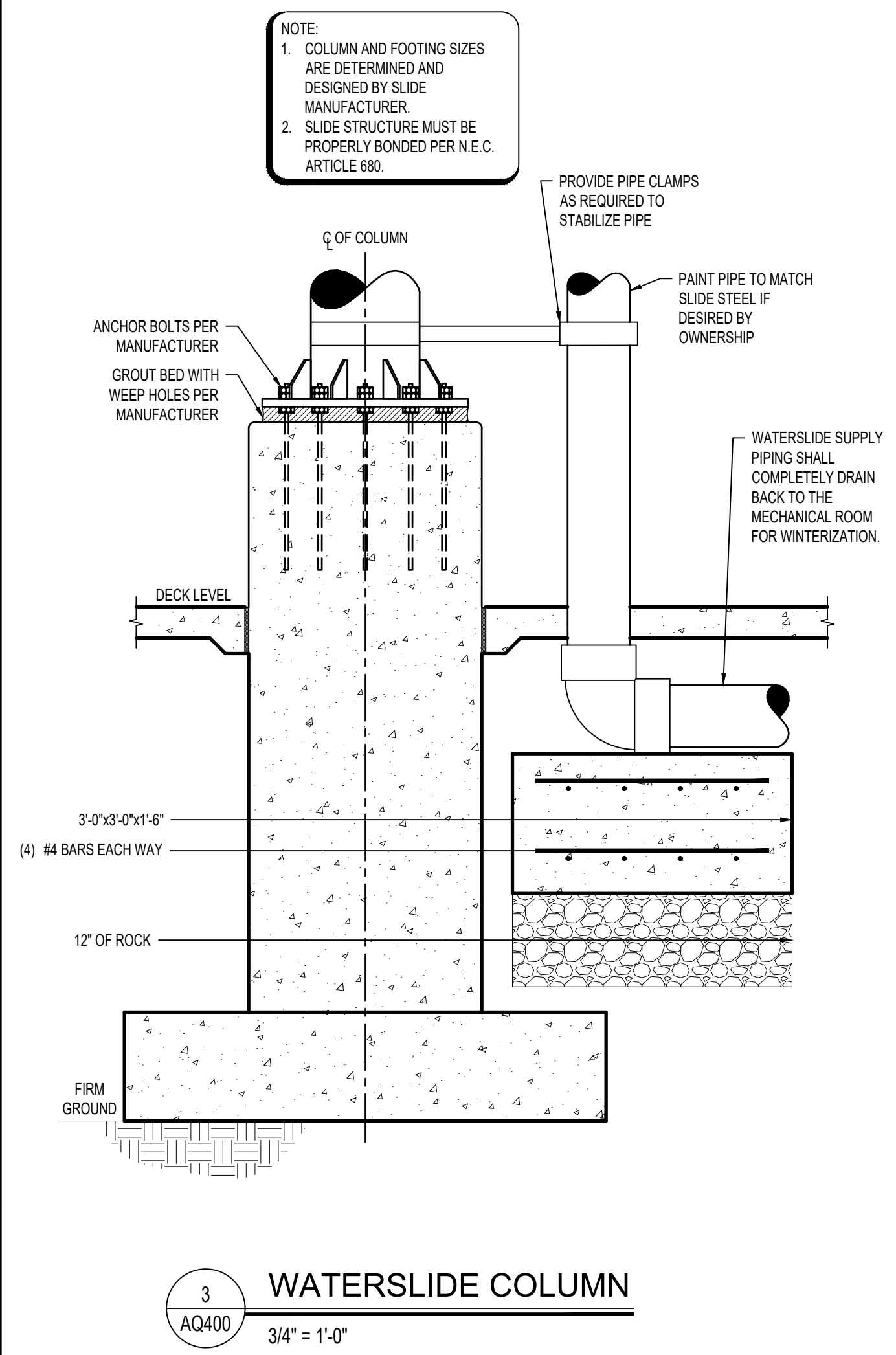
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DEFERRED APPROVAL NOTICE

INSTALLATION OF THE WATERSLIDE/SPRAY FEATURES AND ASSOCIATED FEATURE FOOTINGS SHALL NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS, AND COMPLETE ZONE 4 SEISMIC CALCULATIONS 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 SHALL BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.

WATERSLIDE DESIGN DATA

| POOL | OPEN FLUME SLIDE | CLOSED FLUME SLIDE |
|-------------------|------------------|--------------------|
| PLATFORM HEIGHT | 26'-3" | 26'-3" |
| WATERSLIDE LENGTH | 205'-11" | 141'-5" |
| RUNOUT LENGTH | 43'-0" | 43'-0" |

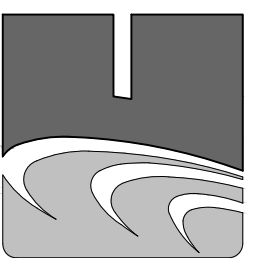


LEISURE POOL LOCATION POINT SCHEDULE

| LP# | X | Y | DESCRIPTION | LP# | X | Y | DESCRIPTION |
|-----|---------------|---------------|--------------------------------------|-----|---------------|---------------|--|
| 1 | -63'-10" | -52'-5 1/4" | LEISURE POOL ARC CENTER POINT | 98 | -67'-5 3/4" | -115'-3 1/4" | LEISURE POOL SKIMMER |
| 2 | -47'-4" | -75'-5 3/4" | LEISURE POOL ARC CENTER POINT | 99 | -88'-6 1/2" | -109'-0" | LEISURE POOL SKIMMER |
| 3 | -55'-0 3/4" | -81'-0 1/4" | LEISURE POOL ARC CENTER POINT | 100 | -109'-11 3/4" | -96'-9" | LEISURE POOL SKIMMER |
| 4 | -38'-3 1/2" | -69'-7 1/4" | LEISURE POOL ARC CENTER POINT | 101 | -130'-9 1/4" | -112'-4" | LEISURE POOL SKIMMER |
| 5 | -23'-7" | -74'-2 3/4" | LEISURE POOL ARC CENTER POINT | 102 | -64'-0 1/4" | -79'-0" | LEISURE POOL WATER LEVEL CONTROLLER |
| 6 | -36'-8 3/4" | -88'-9 3/4" | LEISURE POOL ARC CENTER POINT | 103 | -79'-2 1/2" | -115'-1 3/4" | LEISURE POOL WALL INLET |
| 7 | -40'-4 1/2" | -91'-7 1/4" | LEISURE POOL ARC CENTER POINT | 104 | -65'-0" | -152'-1 1/4" | LEISURE POOL WALL INLET |
| 8 | -41'-11 1/2" | -94'-1" | LEISURE POOL ARC CENTER POINT | 105 | -67'-0" | -143'-1 1/2" | LEISURE POOL FLOOR INLET |
| 9 | -44'-0 3/4" | -98'-3" | LEISURE POOL ARC CENTER POINT | 106 | -47'-10 1/2" | -141'-9" | LEISURE POOL FLOOR INLET |
| 10 | -58'-1 1/2" | -108'-3" | LEISURE POOL ARC CENTER POINT | 107 | -34'-11 3/4" | -136'-8 1/2" | LEISURE POOL FLOOR INLET |
| 11 | -63'-3 1/4" | -109'-6" | LEISURE POOL ARC CENTER POINT | 108 | -47'-5 1/2" | -122'-11" | LEISURE POOL FLOOR INLET |
| 12 | -43'-8 3/4" | -131'-7 3/4" | LEISURE POOL ARC CENTER POINT | 109 | -63'-10 1/4" | -133'-0 3/4" | LEISURE POOL FLOOR INLET |
| 13 | -56'-3 1/2" | -147'-9 1/4" | LEISURE POOL ARC CENTER POINT | 110 | -82'-0" | -124'-7" | LEISURE POOL FLOOR INLET |
| 14 | -62'-9 1/4" | -147'-5 1/4" | LEISURE POOL ARC CENTER POINT | 111 | -94'-0 3/4" | -113'-3" | LEISURE POOL FLOOR INLET |
| 15 | -107'-7 3/4" | -144'-2" | LEISURE POOL ARC CENTER POINT | 112 | -114'-1 1/2" | -103'-5 1/4" | LEISURE POOL FLOOR INLET |
| 16 | -130'-3" | -152'-7 3/4" | LEISURE POOL ARC CENTER POINT | 113 | -121'-2 1/4" | -113'-6" | LEISURE POOL FLOOR INLET |
| 17 | -115'-8 1/2" | -118'-2" | LEISURE POOL ARC CENTER POINT | 114 | -99'-6 3/4" | -126'-3 1/2" | LEISURE POOL FLOOR INLET |
| 18 | -109'-0 3/4" | -116'-5 1/4" | LEISURE POOL ARC CENTER POINT | 115 | -86'-3 3/4" | -136'-7 3/4" | LEISURE POOL FLOOR INLET |
| 19 | -112'-8 3/4" | -113'-7 3/4" | LEISURE POOL ARC CENTER POINT | 116 | -63'-8" | -123'-11 3/4" | LEISURE POOL FLOOR INLET |
| 20 | -116'-3" | -111'-8 3/4" | LEISURE POOL ARC CENTER POINT | 117 | -61'-0" | -110'-5 3/4" | LEISURE POOL FLOOR INLET |
| 21 | -109'-2 1/4" | -107'-4 3/4" | LEISURE POOL ARC CENTER POINT | 118 | -43'-2 3/4" | -110'-0 1/2" | LEISURE POOL FLOOR INLET |
| 22 | -70'-11 1/4" | -125'-9 1/4" | LEISURE POOL ARC CENTER POINT | 119 | -34'-4 3/4" | -106'-2" | LEISURE POOL FLOOR INLET |
| 23 | -101'-2 1/2" | -111'-10 1/4" | LEISURE POOL ARC CENTER POINT | 120 | -46'-1 1/4" | -96'-3 1/2" | LEISURE POOL FLOOR INLET |
| 24 | -101'-2 3/4" | -115'-10 3/4" | LEISURE POOL ARC CENTER POINT | 121 | -62'-0 3/4" | -94'-1 3/4" | LEISURE POOL FLOOR INLET |
| 25 | -68'-1 3/4" | -115'-4 3/4" | LEISURE POOL ARC CENTER POINT | 122 | -58'-10 1/4" | -85'-6 1/4" | LEISURE POOL FLOOR INLET |
| 26 | -68'-2 1/2" | -117'-8 1/2" | LEISURE POOL ARC CENTER POINT | 123 | -40'-11" | -76'-9 1/4" | LEISURE POOL FLOOR INLET |
| 27 | -64'-6 1/2" | -111'-4 1/2" | LEISURE POOL ARC CENTER POINT | 124 | -25'-10" | -89'-6" | LEISURE POOL FLOOR INLET |
| 28 | 2'-0" | -52'-11 1/4" | LEISURE POOL ARC CENTER POINT | 125 | -12'-5 3/4" | -81'-10 1/4" | LEISURE POOL FLOOR INLET |
| 29 | -39'-8" | -86'-3 3/4" | LEISURE POOL ARC CENTER POINT | 126 | -32'-10" | -64'-7" | LEISURE POOL FLOOR INLET |
| 30 | -10' | -90'-4 1/2" | LEISURE POOL ARC CENTER POINT | 127 | -22'-7 1/4" | -73'-2 1/2" | LEISURE POOL FLOOR INLET |
| 31 | -41'-0 1/2" | -116'-1 1/4" | LEISURE POOL ARC CENTER POINT | 128 | -122'-7 1/4" | -123'-3" | LEISURE POOL CENTER OF WALL DRAIN |
| 32 | -57'-7" | -109'-0 3/4" | LEISURE POOL ARC CENTER POINT | 129 | -126'-4 3/4" | -101'-5 3/4" | LEISURE POOL CENTER OF WALL DRAIN |
| 33 | -59'-8" | -110'-1 1/4" | LEISURE POOL ARC CENTER POINT | 130 | -39'-8" | -145'-0 1/2" | LEISURE POOL RIVER NOZZLE |
| 34 | -57'-11 1/2" | -110'-9 1/2" | LEISURE POOL ARC CENTER POINT | 131 | -51'-11 1/4" | -119'-10 1/4" | LEISURE POOL RIVER NOZZLE |
| 35 | -70'-5 3/4" | -125'-2" | LEISURE POOL ARC CENTER POINT | 132 | -83'-6" | -107'-1 1/4" | LEISURE POOL RIVER NOZZLE |
| 36 | 71'-5" | -123'-5 1/4" | LEISURE POOL ARC CENTER POINT | 133 | -70'-3 1/4" | -148'-3 1/4" | LEISURE POOL HANDRAIL END POINT |
| 37 | -58'-5 1/4" | -123'-11 1/2" | LEISURE POOL ARC CENTER POINT | 134 | -64'-0 1/2" | -148'-5 1/2" | LEISURE POOL HANDRAIL END POINT |
| 38 | -48'-1 3/4" | -145'-6 3/4" | LEISURE POOL ARC CENTER POINT | 135 | -63'-9 1/2" | -151'-7 1/2" | LEISURE POOL HANDRAIL END POINT |
| 39 | -56'-7 1/4" | -145'-9 3/4" | LEISURE POOL ARC CENTER POINT | 136 | -70'-6 1/4" | -151'-5 1/4" | LEISURE POOL HANDRAIL END POINT |
| 40 | -58'-2 1/4" | -148'-3" | LEISURE POOL ARC CENTER POINT | 137 | -74'-11 3/4" | -107'-8 1/4" | LEISURE POOL HANDRAIL END POINT |
| 41 | -57'-6 3/2" | -151'-1" | LEISURE POOL ARC CENTER POINT | 138 | -71'-9" | -112'-9" | LEISURE POOL HANDRAIL END POINT |
| 42 | -47'-3 1/4" | -126'-10" | LEISURE POOL ARC CENTER POINT | 139 | -73'-6 1/4" | -113'-11 1/4" | LEISURE POOL HANDRAIL END POINT |
| 43 | -46'-8 3/4" | -127'-3 1/4" | LEISURE POOL ARC CENTER POINT | 140 | -76'-8 3/4" | -108'-10 1/2" | LEISURE POOL HANDRAIL END POINT |
| 44 | -41'-8 3/4" | -127'-0 1/2" | LEISURE POOL ARC CENTER POINT | 141 | -80'-11 1/2" | -111'-7 1/2" | LEISURE POOL HANDRAIL END POINT |
| 45 | -44'-1 3/4" | -137'-1 3/4" | LEISURE POOL ARC CENTER POINT | 142 | -53'-7 1/4" | -74'-1 3/4" | LEISURE POOL WING WALL RAILING END POINT |
| 46 | -48'-7 3/4" | -138'-2 3/4" | LEISURE POOL ARC CENTER POINT | 143 | -23'-7" | -74'-2 3/4" | LEISURE POOL WING WALL RAILING END POINT |
| 47 | -39'-8" | -137'-10 1/2" | LEISURE POOL ARC CENTER POINT | 144 | -29'-5 1/4" | -112'-2 1/2" | LEISURE POOL GRAB RAILS |
| 48 | -73'-9 1/4" | -137'-10 1/2" | LEISURE POOL ARC CENTER POINT | 145 | -71'-2 1/4" | -117'-5 1/4" | LEISURE POOL SAFETY ROPE CUP ANCHOR |
| 49 | -73'-8 1/4" | -135'-9 1/2" | LEISURE POOL ARC CENTER POINT | 146 | -58'-5 1/4" | -110'-3 1/2" | LEISURE POOL SAFETY ROPE CUP ANCHOR |
| 50 | -97'-1" | -118'-6 1/4" | LEISURE POOL ARC CENTER POINT | 147 | -63'-10 1/4" | -114'-8 1/4" | LEISURE POOL SAFETY ROPE CUP ANCHOR |
| 51 | -95'-4 1/4" | -148'-0 1/4" | LEISURE POOL ARC CENTER POINT | 148 | -71'-3 1/4" | -102'-8 3/4" | LEISURE POOL SAFETY ROPE CUP ANCHOR |
| 52 | -68'-8 1/4" | -148'-0 1/4" | LEISURE POOL ARC CENTER POINT | 149 | -36'-0" | -54'-8 1/4" | LEISURE POOL ROOSTER RAIL FEATURE |
| 53 | -69'-0 3/4" | -152'-0" | LEISURE POOL ARC CENTER POINT | 150 | -31'-10 1/4" | -55'-3" | LEISURE POOL DIRECTIONAL JET |
| 54 | -76'-11 1/4" | -145'-6 3/4" | LEISURE POOL ARC CENTER POINT | 151 | -7'-8 1/2" | -75'-11 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 55 | -97'-0 1/2" | -132'-10 1/2" | LEISURE POOL ARC CENTER POINT | 152 | -7'-11" | -77'-3 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 56 | -108'-5 3/4" | -128'-8 1/2" | LEISURE POOL ARC CENTER POINT | 153 | -11 1/4" | -78'-5 1/4" | LEISURE POOL TEAM SPRAY 1 |
| 57 | -114'-0 1/2" | -127'-8" | LEISURE POOL ARC CENTER POINT | 154 | -6'-11 1/4" | -79'-5 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 58 | -124'-6 3/4" | -121'-4 1/2" | LEISURE POOL ARC CENTER POINT | 155 | -5'-8" | -80'-0" | LEISURE POOL TEAM SPRAY 1 |
| 59 | -119'-6 3/4" | -98'-11 3/4" | LEISURE POOL ARC CENTER POINT | 156 | -5'-1 1/4" | -81'-1" | LEISURE POOL TEAM SPRAY 1 |
| 60 | -103'-7 1/4" | -100'-6 1/4" | LEISURE POOL ARC CENTER POINT | 157 | -5'-1 1/2" | -82'-5" | LEISURE POOL TEAM SPRAY 1 |
| 61 | -84'-10 3/4" | -115'-7 1/2" | LEISURE POOL ARC CENTER POINT | 158 | -8'-6 3/4" | -85'-5 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 62 | -80'-2 1/2" | -117'-10 1/4" | LEISURE POOL ARC CENTER POINT | 159 | -14'-1" | -85'-5 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 63 | -78'-11 1/2" | -115'-6 1/2" | LEISURE POOL ARC CENTER POINT | 160 | -24'-4 3/4" | -97'-7 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 64 | -80'-6 1/2" | -113'-1 3/4" | LEISURE POOL ARC CENTER POINT | 161 | -28'-7 1/2" | -71'-9 1/2" | LEISURE POOL TEAM SPRAY 1 |
| 65 | -73'-9 3/4" | -108'-8 3/4" | LEISURE POOL ARC CENTER POINT | 162 | -36'-6" | -78'-6 3/4" | LEISURE POOL TEAM SPRAY 1 |
| 66 | -71'-0 3/4" | -113'-0 1/2" | LEISURE POOL ARC CENTER POINT | 163 | -56'-0 1/2" | -98'-6" | LOG FLOATABLE ANCHOR |
| 67 | -66'-5 1/2" | -119'-4 1/2" | LEISURE POOL ARC CENTER POINT | 164 | -53'-1 1/4" | -98'-10 1/2" | LOG FLOATABLE ANCHOR |
| 68 | -62'-9 3/4" | -115'-11 1/4" | LEISURE POOL ARC CENTER POINT | 165 | -42'-5 1/2" | -102'-0 1/4" | Lily PAD FLOATABLE ANCHOR |
| 69 | -117'-6" | -107'-2" | LEISURE POOL ARC CENTER POINT | 166 | -49'-11 3/4" | -106'-7 3/4" | FLOWER FLOATABLE ANCHOR |
| 70 | -119'-4" | -115'-3 3/4" | LEISURE POOL ARC CENTER POINT | 167 | -51'-1 3/4" | -132'-5" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 71 | -110'-11 1/4" | -120'-3 1/4" | LEISURE POOL ARC CENTER POINT | 168 | -52'-3 1/2" | -133'-1" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 72 | -104'-10" | -78'-6 3/4" | LEISURE POOL ARC CENTER POINT | 169 | -53'-5 1/2" | -134'-3 1/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 73 | -58'-0" | -78'-2" | LEISURE POOL ARC CENTER POINT | 170 | -54'-7 1/2" | -135'-0 3/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 74 | -51'-9 1/4" | -74'-4 1/2" | LEISURE POOL ARC CENTER POINT | 171 | -55'-9 1/4" | -135'-8 3/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 75 | -23'-1 1/4" | -74'-1 1/4" | LEISURE POOL ARC CENTER POINT | 172 | -58'-11 1/4" | -136'-4 3/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 76 | -24'-0 3/4" | -72'-1 1/2" | LEISURE POOL ARC CENTER POINT | 173 | -106'-10" | -117'-0 1/2" | LEISURE POOL RIO NANO 1 FEATURE |
| 77 | -49'-9 3/4" | -72'-1 1/2" | LEISURE POOL ARC CENTER POINT | 174 | -94'-10 1/4" | -121'-1 3/4" | LEISURE POOL RIO NANO 1 FEATURE |
| 78 | -51'-0 1/2" | -77'-4 3/4" | LEISURE POOL ARC CENTER POINT | 175 | -114'-1" | -109'-2" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 79 | -18'-10" | -67'-7" | LEISURE POOL CENTER OF TRENCH DRAIN | 176 | -111'-9 1/4" | -109'-10" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 80 | -45'-2 1/2" | -80'-7 3/4" | LEISURE POOL CENTER OF CHANNEL DRAIN | 177 | -110'-7 1/2" | -111'-2 1/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 81 | -50'-0" | -110'-7 3/4" | LEISURE POOL CENTER OF MAIN DRAIN | 178 | -109'-5 3/4" | -111'-10 1/4" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 82 | -55'-1 1/4" | -107'-6" | LEISURE POOL CENTER OF MAIN DRAIN | 179 | -108'-4" | -115'-2 1/2" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 83 | -75'-1 1/4" | -141'-10" | LEISURE POOL CENTER OF MAIN DRAIN | 180 | -107'-2" | -115'-2 1/2" | LEISURE POOL TUNNEL SPRAY 1 FEATURE |
| 84 | -83'-4" | -138'-2 1/4" | LEISURE POOL CENTER OF MAIN DRAIN | 181 | -113'-5 1/2" | -122'-0 3/4" | LEISURE POOL ARC CENTER POINT |
| 85 | -113'-2 1/2" | -139'-9 1/4" | LEISURE POOL SKIMMER | 182 | -46'-19 1/2" | -61'-6 3/4" | VALVE BOX 1 |
| 86 | -93'-7" | -146'-10 1/2" | LEISURE POOL SKIMMER | 183 | -9'-0 1/4" | -95'-2 1/2" | VALVE BOX 2 |
| 87 | -77'-11" | -149'-0 3/4" | LEISURE POOL SKIMMER | 184 | -93'-1" | -100'-3 3/4" | VALVE BOX 3 |
| 88 | -29'-11 3/4" | -139'-6" | LEISURE POOL SKIMMER | | | | |
| 89 | -31'-11 3/4" | -115'-5 1/4" | LEISURE POOL SKIMMER | | | | |
| 90 | -31'-2 1/2" | -101'-4" | LEISURE POOL SKIMMER | | | | |
| 91 | -19'-1 1/2" | -70'-7 3/4" | LEISURE POOL SKIMMER | | | | |
| 92 | -50'-10 3/4" | -75'-9 1/2" | LEISURE POOL SKIMMER | | | | |
| 93 | -60'-1 1/2" | -92'-8 1/2" | LEISURE POOL SKIMMER | | | | |

FITNESS POOL LOCATION POINT SCHEDULE

| LP# | X | Y | DESCRIPTION |
|-----|---------------|--------------|-------------------------------------|
| 1 | -111'-8" | 21'-5" | FITNESS POOL CONSTRUCTION POINT |
| 2 | -67'-7" | -11'-5 3/4" | FITNESS POOL CONSTRUCTION POINT |
| 3 | -112'-5 3/4" | -71'-7 3/4" | FITNESS POOL CONSTRUCTION POINT |
| 4 | -156'-6 3/4" | -38'-9" | FITNESS POOL CONSTRUCTION POINT |
| 5 | -130'-8 1/4" | -49'-3" | FITNESS POOL CENTER OF MAIN DRAIN |
| 6 | -119'-6" | -57'-2 1/4" | FITNESS POOL CENTER OF MAIN DRAIN |
| 7 | -150'-9 3/4" | -27'-2 1/4" | FITNESS POOL SKIMMER |
| 8 | -134'-7 1/4" | -6'-2 3/4" | FITNESS POOL SKIMMER |
| 9 | -103'-5" | 17'-9 3/4" | FITNESS POOL SKIMMER |
| 10 | -84'-6 3/4" | 3'-6" | FITNESS POOL SKIMMER |
| 11 | -67'-5" | -9'-6 1/2" | FITNESS POOL SKIMMER |
| 12 | -71'-3 1/2" | -19'-6 3/4" | FITNESS POOL SKIMMER |
| 13 | -83'-3 1/2" | -35'-7 3/4" | FITNESS POOL SKIMMER |
| 14 | -92'-4 3/4" | -47'-10" | FITNESS POOL SKIMMER |
| 15 | -101'-2 3/4" | -59'-5 1/4" | FITNESS POOL SKIMMER |
| 16 | -114'-2 1/4" | -72'-8 1/4" | FITNESS POOL SKIMMER |
| 17 | -134'-11" | -57'-2 1/2" | FITNESS POOL SKIMMER |
| 18 | -150'-10 1/4" | -45'-3 3/4" | FITNESS POOL SKIMMER |
| 19 | -123'-5 1/4" | -6'-6 3/4" | FITNESS POOL WALL INLET |
| 20 | -111'-10 3/4" | 12'-9" | FITNESS POOL FLOOR INLET |
| 21 | -130'-1 3/4" | -11'-8" | FITNESS POOL FLOOR INLET |
| 22 | -148'-3 3/4" | -36'-0 3/4" | FITNESS POOL FLOOR INLET |
| 23 | -133'-5 3/4" | -47'-1 1/4" | FITNESS POOL FLOOR INLET |
| 24 | -110'-1 1/4" | -31'-2 1/4" | FITNESS POOL FLOOR INLET |
| 25 | -115'-3 1/4" | -39'-6 3/4" | FITNESS POOL FLOOR INLET |
| 26 | -115'-3 1/4" | -22'-8 3/4" | FITNESS POOL FLOOR INLET |
| 27 | -111'-9 1/4" | -14'-8 1/2" | FITNESS POOL FLOOR INLET |
| 28 | -100'-6 3/4" | 1'-8 1/4" | FITNESS POOL FLOOR INLET |
| 29 | -97'-0 3/4" | 6'-8 1/4" | FITNESS POOL FLOOR INLET |
| 30 | -85'-10 1/4" | -15'-0 3/4" | FITNESS POOL FLOOR INLET |
| 31 | -74'-7 1/2" | -21'-1 1/4" | FITNESS POOL FLOOR INLET |
| 32 | -92'-8" | -31'-1" | FITNESS POOL FLOOR INLET |
| 33 | -104'-0 3/4" | -39'-5 1/2" | FITNESS POOL FLOOR INLET |
| 34 | -92'-8" | -47'-11 1/4" | FITNESS POOL FLOOR INLET |
| 35 | -107'-10 1/2" | -63'-10 1/2" | FITNESS POOL FLOOR INLET |
| 36 | -122'-3 1/4" | -55'-6" | FITNESS POOL FLOOR INLET |
| 37 | -66'-3 1/4" | -13'-11" | FITNESS POOL WATER LEVEL CONTROLLER |
| 38 | -125'-7 3/4" | -6'-6 1/4" | FITNESS POOL HANDRAIL END POINT |
| 39 | -122'-5 1/4" | -8'-11" | FITNESS POOL HANDRAIL END POINT |
| 40 | -119'-2 3/4" | -4'-7 1/4" | FITNESS POOL HANDRAIL END POINT |
| 41 | -122'-5 1/4" | -2'-2 1/2" | FITNESS POOL HANDRAIL END POINT |
| 42 | -123'-1 1/4" | -9'-8 1/4" | FITNESS POOL GUARD RAIL END POINT |
| 43 | -148'-10" | -44'-2 1/4" | FITNESS POOL GUARD RAIL END POINT |
| 44 | -132'-1 1/4" | -3'-6 1/4" | FITNESS POOL HANDRAIL END POINT |
| 45 | -125'-6 3/4" | -4'-8 3/4" | FITNESS POOL HANDRAIL END POINT |
| 46 | -125'-9 1/2" | 4'-11 3/4" | FITNESS POOL HANDRAIL END POINT |
| 47 | -124'-2 1/2" | 3'-9 3/4" | FITNESS POOL HANDRAIL END POINT |
| 48 | -119'-5 1/4" | 13'-5 3/4" | FITNESS POOL HANDRAIL END POINT |
| 49 | -117'-10 1/4" | 13'-5 3/4" | FITNESS POOL HANDRAIL END POINT |
| 50 | -113'-1 1/2" | 21'-11 3/4" | FITNESS POOL HANDRAIL END POINT |
| 51 | -111'-6 1/4" | 20'-9 1/4" | FITNESS POOL SAFETY ROPE CUP ANCHOR |
| 52 | -132'-2 1/4" | -49'-8 3/4" | FITNESS POOL SAFETY ROPE CUP ANCHOR |
| 53 | -96'-3 1/4" | -71'-3 1/4" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 54 | -73'-2 1/4" | -31'-1 1/4" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 55 | -78'-9 3/4" | 1'-1" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 56 | -94'-5" | 5'-3 1/4" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 57 | -90'-6 1/4" | 9'-5 1/2" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 58 | -95'-7 3/4" | 13'-7 3/4" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 59 | -101'-3" | 46'-6 1/2" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 60 | -146'-1 1/2" | -50'-8 1/2" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 61 | -140'-6 1/4" | -54'-10 3/4" | FITNESS POOL LANE ROPE CUP ANCHOR |
| 62 | -134'-11" | -5 | |



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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| MARK | DESCRIPTION | DATE |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |

PROJECT NO: **20224620**
DRAWN BY: **KAS**
CHECKED BY: **CCH**

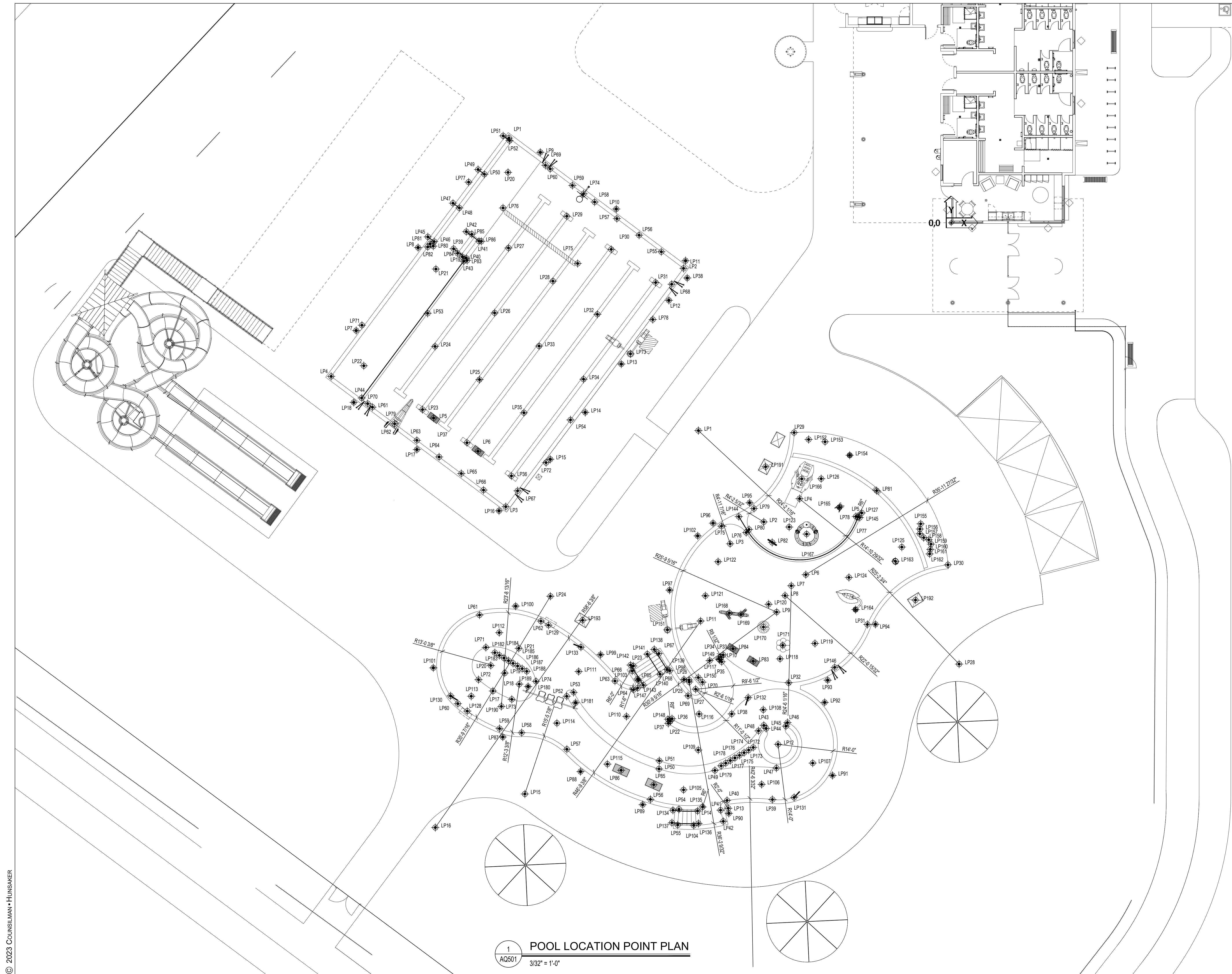
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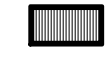




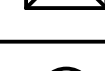
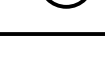
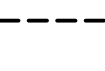


DRAWING TITLE
POOL LOCATION POINT PLAN

AQ501



1 **POOL LOCATION POINT PLAN**
AQ501 3/32" = 1'-0"

| PIPING LEGEND | | | | |
|--|-----|--|-------------------------------|--|
| LEGEND | QTY | ITEM | MAKE | MODEL |
| FITNESS POOL | | | | |
|  | 1 | WALL INLET REFER: 8/AQ703 | HAYWARD | SP1421D & SP1022S |
|  | 18 | FLOOR INLET REFER: 10/AQ703 | STA-RITE | 8417-000 (WHITE), 8417-0200 (BLACK) |
|  | 1 | WATER LEVEL CONTROLLER REFER: 3/AQ704 | AQUATIC CONTROL TECHNOLOGY | ELC-810-XX-DW-000 |
|  | 1 | SIGHT SUMP REFER: 1/AQ704 | QUAZITE | PC1212CA00 W. PC1212BA12 (QUAZITE) |
|  | 12 | SKIMMER REFER: 13/AQ703 | STA-RITE | U-3 #08650-1403 (WHITE) |
|  | 2 | MAIN DRAIN REFER: 12/AQ703 | REFER TO MAIN DRAIN SCHEDULE | |
| LEISURE POOL | | | | |
|  | 2 | WALL INLET REFER: 8/AQ703 | HAYWARD | SP1421D & SP1022S |
|  | 24 | FLOOR INLET REFER: 10/AQ703 | STA-RITE | 8417-000 (WHITE) |
|  | 15 | SKIMMER REFER: 13/AQ703 | STA-RITE | U-3 #08650-1403 (WHITE) |
|  | 4 | MAIN DRAIN REFER: 12/AQ703 | REFER TO MAIN DRAIN SCHEDULE | |
|  | 2 | WALL DRAIN REFER: 11/AQ704 | REFER TO MAIN DRAIN SCHEDULE | |
|  | 4 | CURRENT CHANNEL NOZZLES REFER: 11/AQ703 | FIELD FABRICATED | |
|  | 1 | CHANNEL DRAIN REFER: 9/AQ704 | REFER TO MAIN DRAIN SCHEDULE | |
|  | 4 | VALVE BOX REFER: 1-4/AQ705 | QUAZITE | PC2436BA18 & PC2436CA00 |
|  | 1 | TRENCH SUMP REFER: 9/AQ703 | FIELD FABRICATED | |
|  | 1 | WATER LEVEL CONTROLLER REFER: 3/AQ704 | AQUATIC CONTROL TECHNOLOGY | ELC-810-XX-DW-000 |
| COMBINED | | | | |
|  | N/A | BELOW GRADE PIPING | CHEMTRON | SCH 80 PVC |

| PIPE SCHEDULE | |
|---------------|--|
| ID | DESCRIPTION |
| P1 | 8" FROM M1 TO PP3 |
| P2 | 8" FROM LEISURE POOL SKIMMERS TO PP3 |
| P3 | 8" FROM PP3 TO F2 |
| P4 | 8" FROM F2 TO LEISURE POOL RETURN INLETS |
| P5 | 4" FROM F4 TO H2 |
| P6 | 4" FROM H2 TO P4 |
| P7 | 8" FROM F2 TO BACKWASH CATCH BASIN |
| P8 | 6" FROM L2 TO M4 |
| P9 | 4" FROM P3 TO BACKWASH CATCH BASIN |
| P10 | 6" FROM M1 TO PP4 |
| P11 | 4" FROM PP4 TO LEISURE POOL VALVE BOXES |
| P12 | 3" FROM TRENCH DRAIN TO M1 |
| P13 | 4" FROM M3 TO M1 |
| P14 | 8" FROM M1 TO PP6 |
| P15 | 6" FROM PP6 TO CLOSED FLUME SLIDE |
| P16 | 10" FROM M2 TO PP1 |
| P17 | 10" FROM PP4 TO LEISURE POOL RIVER NOZZLES |
| P18 | 10" FROM M2 TO PP2 |
| P19 | 10" FROM PP2 TO LEISURE POOL RIVER NOZZLES |
| P20 | 10" FROM M2 TO PP7 |
| P21 | 8" FROM PP7 TO OPEN FLUME SLIDE |
| P22 | 2" FROM VALVE BOX 1 TO FROG SLIDE |
| P23 | 1.5" FROM VALVE BOX 1 TO CASCADE LOOP |
| P24 | 1.5" FROM VALVE BOX 1 TO BUTTERFLY 1 |
| P25 | 1.5" FROM VALVE BOX 4 TO FOAMING GEYSER 2 |
| P26 | 1.5" FROM VALVE BOX 4 TO DIRECTIONAL JET 3 |
| P27 | 1.5" FROM VALVE BOX 4 TO ROOSTER TAIL |
| P28 | 1.5" FROM VALVE BOX 2 TO WATER BUG 2 |
| P29 | 2" FROM VALVE BOX 2 TO TEAM SPRAY 1 |
| P30 | 2" FROM VALVE BOX 2 TO SPRIG 2 |
| P31 | NOT USED |
| P32 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P33 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P34 | 1.5" FROM VALVE BOX 3 TO RIO NANO NO 1 |
| P35 | 8" FROM M4 TO PP5 |
| P36 | 8" FROM FITNESS POOL SKIMMERS TO PP5 |
| P37 | 6" FROM PP5 TO F1 |
| P38 | 6" FROM F1 TO FITNESS POOL RETURN INLETS |
| P39 | 4" FROM P38 TO H1 |
| P40 | 4" FROM H1 TO P38 |
| P41 | 6" FROM F1 TO BACKWASH CATCH BASIN |
| P42 | 6" FROM L1 TO M4 |
| P43 | 4" FROM P37 TO BACKWASH CATCH BASIN |
| P44 | 12" FROM WATERSLIDE SUMP TO M5 |
| P45 | 12" FROM WATERSLIDE SUMP TO M5 |
| P46 | 12" FROM WATERSLIDE SUMP TO M6 |
| P47 | 12" FROM WATERSLIDE SUMP TO M6 |

| 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. | ALL BALANCING VALVES AND BUTTERFLY VALVES MUST BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS). |
| 5. | 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. |
| 6. | 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. |
| 7. | ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDELINES. REFER: 7/AQ704 |
| 8. | INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING. |
| 9. | 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. |
| 10. | ALL PIPING INDICATED MUST BE CONSIDERED DIAGRAMMATIC. |
| 11. | ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL MUST BE ALL SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. REFER: 2/AQ704 |
| 12. | 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. |
| 13. | ALL DIMENSIONS INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES. |
| 14. | 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. |
| 15. | ALL FLOOR INLETS MUST BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS. |
| 16. | ALL PIPE TEES MUST BE SIZED FOR LARGEST PIPE CONNECTION. |
| POOL PIPING WINTERIZATION NOTES | |
| 1. | ALL POOL PIPING MUST HAVE THE ABILITY TO BE DRAINED FOR WINTERIZATION. |
| 2. | ALL POOL RECIRCULATION INLET PIPING MUST HAVE THE ABILITY TO COMPLETELY DRAIN TO THE 2" WINTERIZATION LINE AS SHOWN ON THE DRAWINGS. |
| 3. | ALL POOL SUCTION PIPING MUST BE INSTALLED WITH A CONSTANT SLOPE TO THE MAIN DRAINS. |
| 4. | WATERSLIDE RUNOUT SUMP LINES MUST BE INSTALLED WITH A CONSTANT SLOPE TO THE POOL WALL GRATES. |
| 5. | APPLICABLE POOL PIPING SHALL BE COMPLETELY DRAINED TO THE WINTERIZATION MANHOLE VIA A TEE FITTING CONNECTED AT THE LOW POINT OF THE PIPE AND A DIRECT BURIAL VALVE. REFER TO PIPING PLANS FOR DETAILS. |
| 6. | 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 ANTIFREEZE. REFER: 14/AQ703. |

| PUMP SCHEDULE | | | | | | | | | | | |
|---------------|--|--------------|-----------|---------|------|-----|-----|-------|-------------|--------|------------------|
| ID | DESCRIPTION | MANUFACTURER | MODEL | SIZE | GPM | TDH | HP | NPSHR | HAIR & LINT | | NOTES |
| | | | | | | | | | MAKE | SIZE | |
| PP1 | LEISURE POOL RIVER PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"X5" | 1150 | 35 | 15 | 7.83 | MERMADE | 10"X6" | 1,2,3,4, 6,7 |
| PP2 | LEISURE POOL RIVER PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"X5" | 1150 | 35 | 15 | 7.83 | MERMADE | 10"X6" | 1,2,3,4, 6,7 |
| PP3 | LEISURE POOL RECIRCULATION PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"X5" | 800 | 85 | 30 | 8.30 | MERMADE | 8"X6" | 1,2,3,4,9 |
| PP4 | LEISURE POOL FEATURE PUMP REFER: 1/AQ702 | AURORA | 2.5X3X9.5 | 3"X2.5" | 222 | 57 | 7.5 | 7.49 | MERMADE | 6"X3" | 1,2,3,4, 6,7 |
| PP5 | FITNESS POOL RECIRCULATION PUMP REFER: 1/AQ702 | AURORA | 3X4X9.5 | 4"X3" | 525 | 80 | 20 | 7.99 | MERMADE | 8"X4" | 1,2,3,4,9 |
| PP6 | CLOSED FLUME SLIDE PUMP REFER: 1/AQ702 | AURORA | 3X4X9.5 | 4"X3" | 500 | 55 | 15 | 7.54 | MERMADE | 8"X4" | 1,2,3,4, 5,6,7,8 |
| PP7 | OPEN FLUME SLIDE PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"X5" | 1000 | 55 | 20 | 7.89 | MERMADE | 10"X6" | 1,2,3,4, 5,6,7,8 |
| NOTE: | | | | | | | | | | | |
| 1. | THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS: GRISWOLD, HERBORNER, PACO OR AURORA MUST BE CONSIDERED EQUAL PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS. | | | | | | | | | | |
| 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 208 VOLT, 3 PHASE, 60HZ, 1800RPM MOTOR. | | | | | | | | | | |
| 5. | PROVIDE WITH CHECK VALVE. | | | | | | | | | | |
| 6. | PROVIDE VARIABLE FREQUENCY DRIVE. | | | | | | | | | | |
| 7. | PROVIDE REMOTE PUMP START. | | | | | | | | | | |
| 8. | PROVIDE EMERGENCY STOP. | | | | | | | | | | |
| 9. | PROVIDE WITH VARIABLE FREQUENCY DRIVE WITH BYPASS PANEL. | | | | | | | | | | |

| MAIN DRAIN SCHEDULE | | | | | | | | |
|---------------------|---|---------|-----|-------------------|-----------------------|----------------------------------|----------------|--------------|
| ID | DESCRIPTION | SIZE | QTY | DESIGN FLOW (GPM) | DESIGN VELOCITY (FPS) | MFG ALLOWABLE FLOW @ COVER (GPM) | MODEL | MANUFACTURER |
| M1 | LEISURE POOL RECIRCULATION | 18"X36" | 2 | 1,522 | 0.61 | 1,875 | DALMAX-SG-1836 | DALDORADO |
| M2 | LEISURE POOL RIVER PROPULSION & OPEN FLUME SLIDE | 24"X48" | 2 | 3,300 | 0.66 | 6,456 | DALMAX-SG-2448 | DALDORADO |
| M3 | WADING AREA EQUALIZER | 5"X32" | 1 | N/A | N/A | 122 | 32CDFL | AQUASTAR |
| M4 | FITNESS POOL RECIRCULATION | 18"X36" | 2 | 525 | 0.21 | 1,875 | DALMAX-SG-1836 | DALDORADO |
| M5 | WATERSLIDE EQUALIZER | 18"X36" | 1 | N/A | N/A | 1,875 | DALMAX-SG-1836 | DALDORADO |
| M6 | WATERSLIDE EQUALIZER | 18"X36" | 1 | N/A | N/A | 1,875 | DALMAX-SG-1836 | DALDORADO |
| NOTE: | | | | | | | | |
| 1. | MAIN DRAIN GRATING MUST BE MANUFACTURED BY DALDORADO, AQUASTAR, OR APPROVED EQUAL. | | | | | | | |
| 2. | MAXIMUM FACE VELOCITY MUST NOT EXCEED 1.5 FEET PER SECOND. | | | | | | | |
| 3. | OPEN AREA IS BASED ON MANUFACTURER'S DATA. | | | | | | | |
| 4. | THE INSTALLED LIFE OF THE MAIN DRAIN COVER MUST BE 25 YEARS. | | | | | | | |
| 5. | ALL MAIN DRAINS IN SUCTION MUST BE INSTALLED IN THE POOL FLOOR. WALL SUMPS WILL NOT BE PERMITTED. | | | | | | | |
| 6. | FASTEN MAIN DRAIN COVER TO EMBEDDED PVC FRAME/POOL FLOOR WITH S/S TAMPER PROOF FASTENERS AT A SPACING NO GREATER THAN 24" O.C. REFER TO FRAME AND GRATE MANUFACTURER'S INSTALLATION INSTRUCTIONS. | | | | | | | |
| 7. | PROVIDE WATER BONDING FITTING IN MAIN DRAIN SUMP AT DEEPEST SECTION OF THE POOL. BASIS OF DESIGN: PERMA-CAST SWIMMING POOL PRODUCTS MODEL PB-SK-20. | | | | | | | |
| 8. | PROVIDE HYDROSTATIC RELIEF VALVE IN EACH MAIN DRAIN. BASIS OF DESIGN: HAYWARD MODEL SP1056 & SP1055. | | | | | | | |

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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD


CITY WILLISTON
 STATE NORTH DAKOTA

ISSUE DATES

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

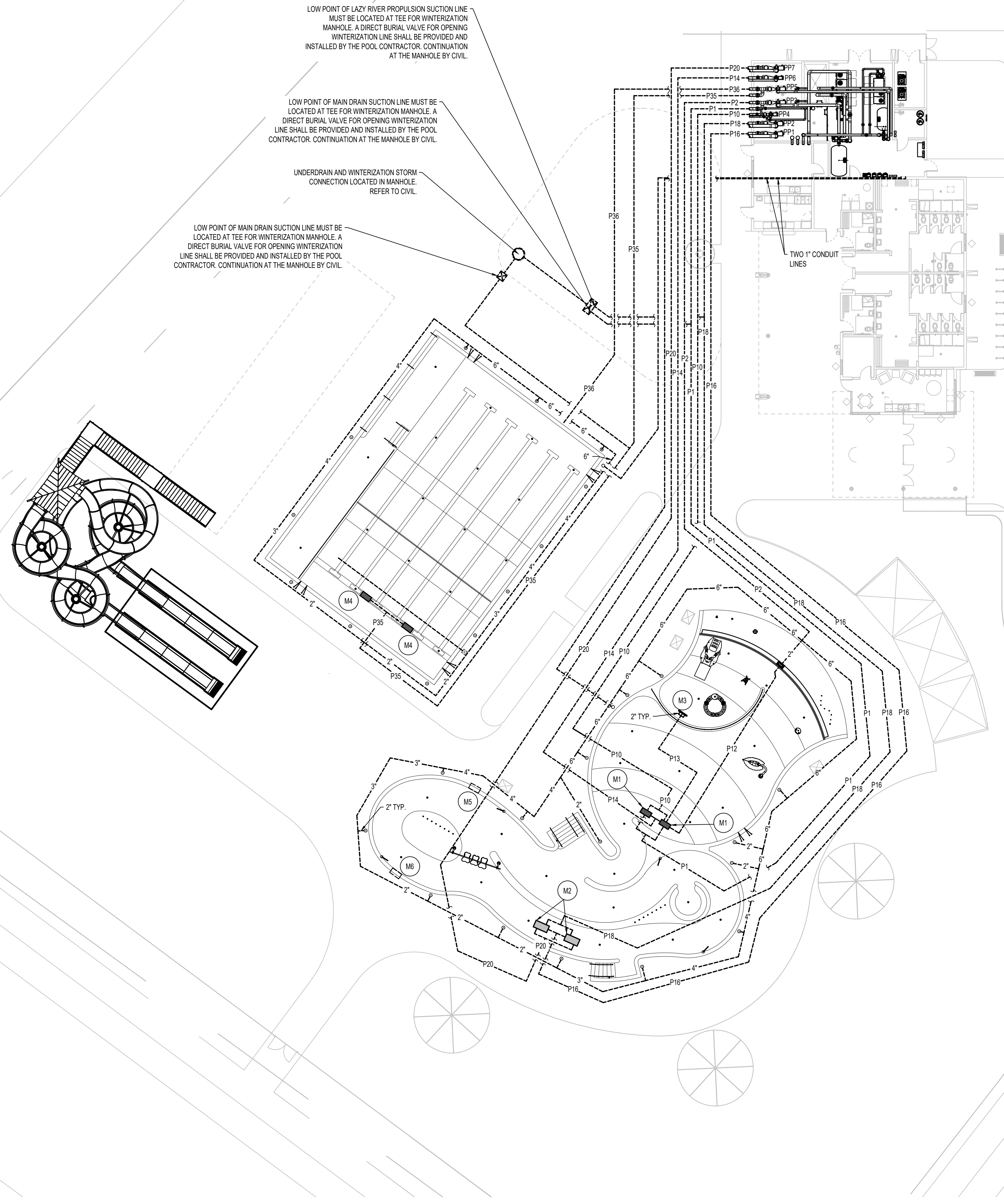
PROJECT NO: 20224620
 DRAWN BY: KAS
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DRAWING TITLE
POOL PIPING NOTES & SCHEDULES

AQ600



| PIPE SCHEDULE | |
|---------------|--|
| ID | DESCRIPTION |
| P1 | 8" FROM M1 TO PP3 |
| P2 | 8" FROM LEISURE POOL SKIMMERS TO PP3 |
| P3 | 8" FROM PP3 TO F2 |
| P4 | 8" FROM F2 TO LEISURE POOL RETURN INLETS |
| P5 | 4" FROM P4 TO H2 |
| P6 | 4" FROM H2 TO P4 |
| P7 | 8" FROM F2 TO BACKWASH CATCH BASIN |
| P8 | 8" FROM L2 TO M4 |
| P9 | 4" FROM P3 TO BACKWASH CATCH BASIN |
| P10 | 6" FROM M1 TO PP4 |
| P11 | 4" FROM PP4 TO LEISURE POOL VALVE BOXES |
| P12 | 3" FROM TRENCH DRAIN TO M1 |
| P13 | 4" FROM M3 TO M1 |
| P14 | 8" FROM M1 TO PP6 |
| P15 | 6" FROM PP6 TO CLOSED FLUME SLIDE |
| P16 | 10" FROM M2 TO PP1 |
| P17 | 10" FROM PP1 TO LEISURE POOL RIVER NOZZLES |
| P18 | 10" FROM M2 TO PP2 |
| P19 | 10" FROM PP2 TO LEISURE POOL RIVER NOZZLES |
| P20 | 10" FROM M2 TO PP7 |
| P21 | 8" FROM PP7 TO OPEN FLUME SLIDE |
| P22 | 2" FROM VALVE BOX 1 TO FROG SLIDE |
| P23 | 1.5" FROM VALVE BOX 1 TO CASCADE LOOP |
| P24 | 1.5" FROM VALVE BOX 1 TO BUTTERFLY 1 |
| P25 | 1.5" FROM VALVE BOX 4 TO FOAMING GEYSER 2 |
| P26 | 1.5" FROM VALVE BOX 4 TO DIRECTIONAL JET 3 |
| P27 | 1.5" FROM VALVE BOX 4 TO ROOSTER TAIL |
| P28 | 1.5" FROM VALVE BOX 2 TO WATER BUG 2 |
| P29 | 2" FROM VALVE BOX 2 TO TEAM SPRAY 1 |
| P30 | 2" FROM VALVE BOX 2 TO SPRIG 2 |
| P31 | NOT USED |
| P32 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P33 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P34 | 1.5" FROM VALVE BOX 3 TO RIO NANO NO 1 |
| P35 | 8" FROM M4 TO PP5 |
| P36 | 8" FROM FITNESS POOL SKIMMERS TO PP5 |
| P37 | 8" FROM PP5 TO F1 |
| P38 | 6" FROM F1 TO FITNESS POOL RETURN INLETS |
| P39 | 4" FROM P38 TO H1 |
| P40 | 4" FROM H1 TO P38 |
| P41 | 6" FROM F1 TO BACKWASH CATCH BASIN |
| P42 | 6" FROM L1 TO M4 |
| P43 | 4" FROM P37 TO BACKWASH CATCH BASIN |
| P44 | 12" FROM WATERSLIDE SUMP TO M5 |
| P45 | 12" FROM WATERSLIDE SUMP TO M5 |
| P46 | 12" FROM WATERSLIDE SUMP TO M6 |
| P47 | 12" FROM WATERSLIDE SUMP TO M6 |



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PROJECT DESCRIPTION
WILLISTON WATER WORLD

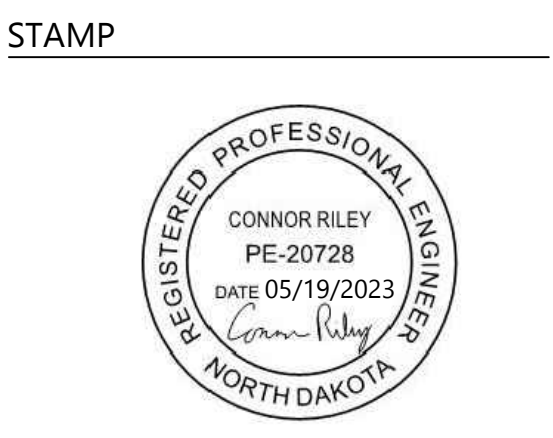
CITY **WILLISTON**
 STATE **NORTH DAKOTA**

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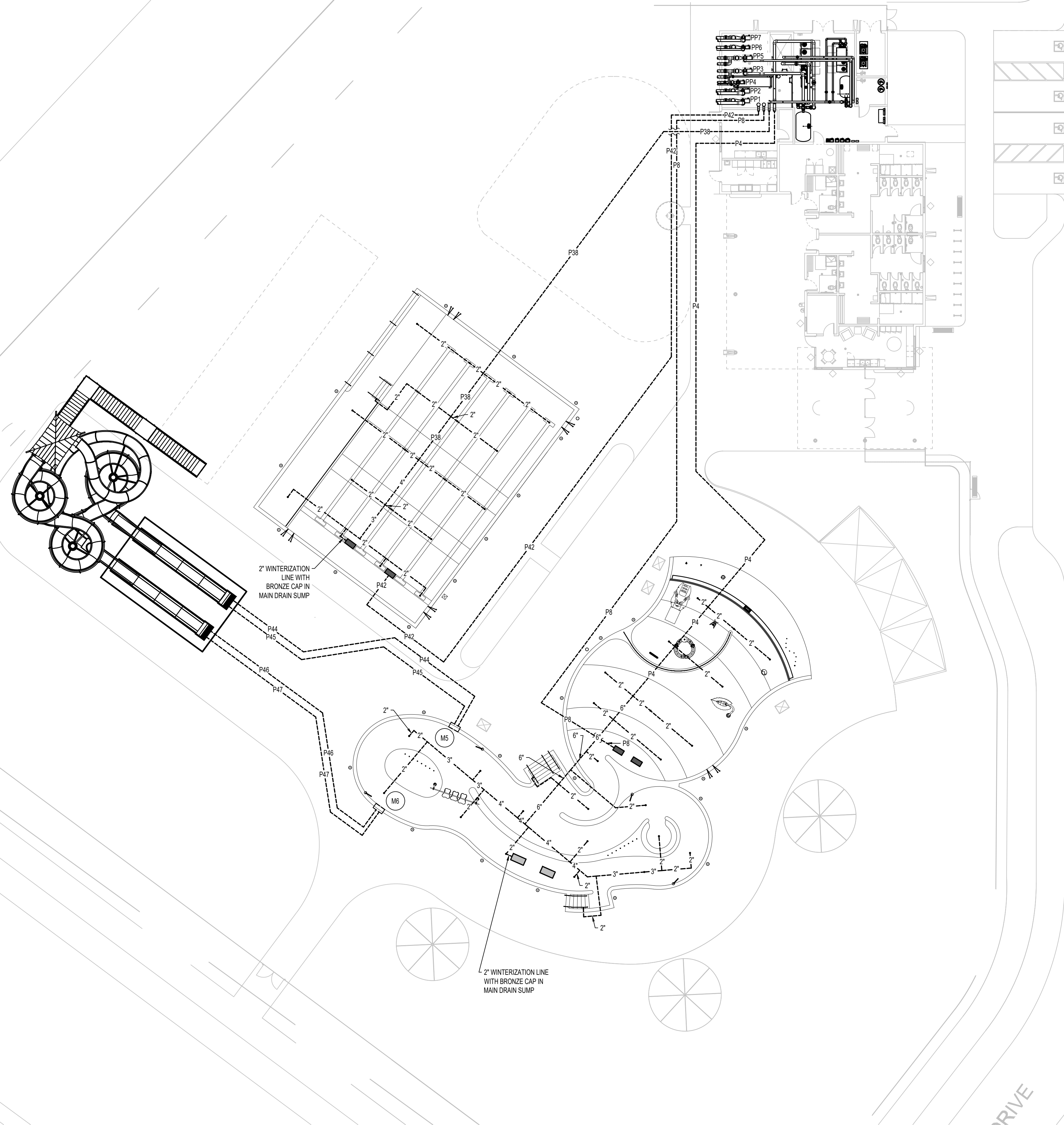
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DRAWING TITLE
POOL SUCTION PIPING PLAN

AQ601

1 POOL SUCTION PIPING PLAN
 AQ601 1/16" = 1'-0"



1
AQ602
1/16" = 1'-0"
POOL RETURN PIPING PLAN

| PIPE SCHEDULE | |
|---------------|--|
| ID | DESCRIPTION |
| P1 | 8" FROM M1 TO PP3 |
| P2 | 8" FROM LEISURE POOL SKIMMERS TO PP3 |
| P3 | 8" FROM PP3 TO F2 |
| P4 | 8" FROM F2 TO LEISURE POOL RETURN INLETS |
| P5 | 4" FROM P4 TO H2 |
| P6 | 4" FROM H2 TO P4 |
| P7 | 8" FROM F2 TO BACKWASH CATCH BASIN |
| P8 | 8" FROM L2 TO M4 |
| P9 | 4" FROM P3 TO BACKWASH CATCH BASIN |
| P10 | 6" FROM M1 TO PP4 |
| P11 | 4" FROM PP4 TO LEISURE POOL VALVE BOXES |
| P12 | 3" FROM TRENCH DRAIN TO M1 |
| P13 | 4" FROM M3 TO M1 |
| P14 | 8" FROM M1 TO PP6 |
| P15 | 6" FROM PP6 TO CLOSED FLUME SLIDE |
| P16 | 10" FROM M2 TO PP1 |
| P17 | 10" FROM PP1 TO LEISURE POOL RIVER NOZZLES |
| P18 | 10" FROM M2 TO PP2 |
| P19 | 10" FROM PP2 TO LEISURE POOL RIVER NOZZLES |
| P20 | 10" FROM M2 TO PP7 |
| P21 | 8" FROM PP7 TO OPEN FLUME SLIDE |
| P22 | 2" FROM VALVE BOX 1 TO FROG SLIDE |
| P23 | 1.5" FROM VALVE BOX 1 TO CASCADE LOOP |
| P24 | 1.5" FROM VALVE BOX 1 TO BUTTERFLY 1 |
| P25 | 1.5" FROM VALVE BOX 4 TO FOAMING GEYSER 2 |
| P26 | 1.5" FROM VALVE BOX 4 TO DIRECTIONAL JET 3 |
| P27 | 1.5" FROM VALVE BOX 4 TO ROOSTER TAIL |
| P28 | 1.5" FROM VALVE BOX 2 TO WATER BUG 2 |
| P29 | 2" FROM VALVE BOX 2 TO TEAM SPRAY 1 |
| P30 | 2" FROM VALVE BOX 2 TO SPRIG 2 |
| P31 | NOT USED |
| P32 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P33 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P34 | 1.5" FROM VALVE BOX 3 TO RIO NANO NO 1 |
| P35 | 8" FROM M4 TO PP5 |
| P36 | 8" FROM FITNESS POOL SKIMMERS TO PP5 |
| P37 | 8" FROM PP5 TO F1 |
| P38 | 6" FROM F1 TO FITNESS POOL RETURN INLETS |
| P39 | 4" FROM P38 TO H1 |
| P40 | 4" FROM H1 TO P38 |
| P41 | 6" FROM F1 TO BACKWASH CATCH BASIN |
| P42 | 6" FROM L1 TO M4 |
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| P44 | 12" FROM WATERSLIDE SUMP TO M5 |
| P45 | 12" FROM WATERSLIDE SUMP TO M5 |
| P46 | 12" FROM WATERSLIDE SUMP TO M6 |
| P47 | 12" FROM WATERSLIDE SUMP TO M6 |



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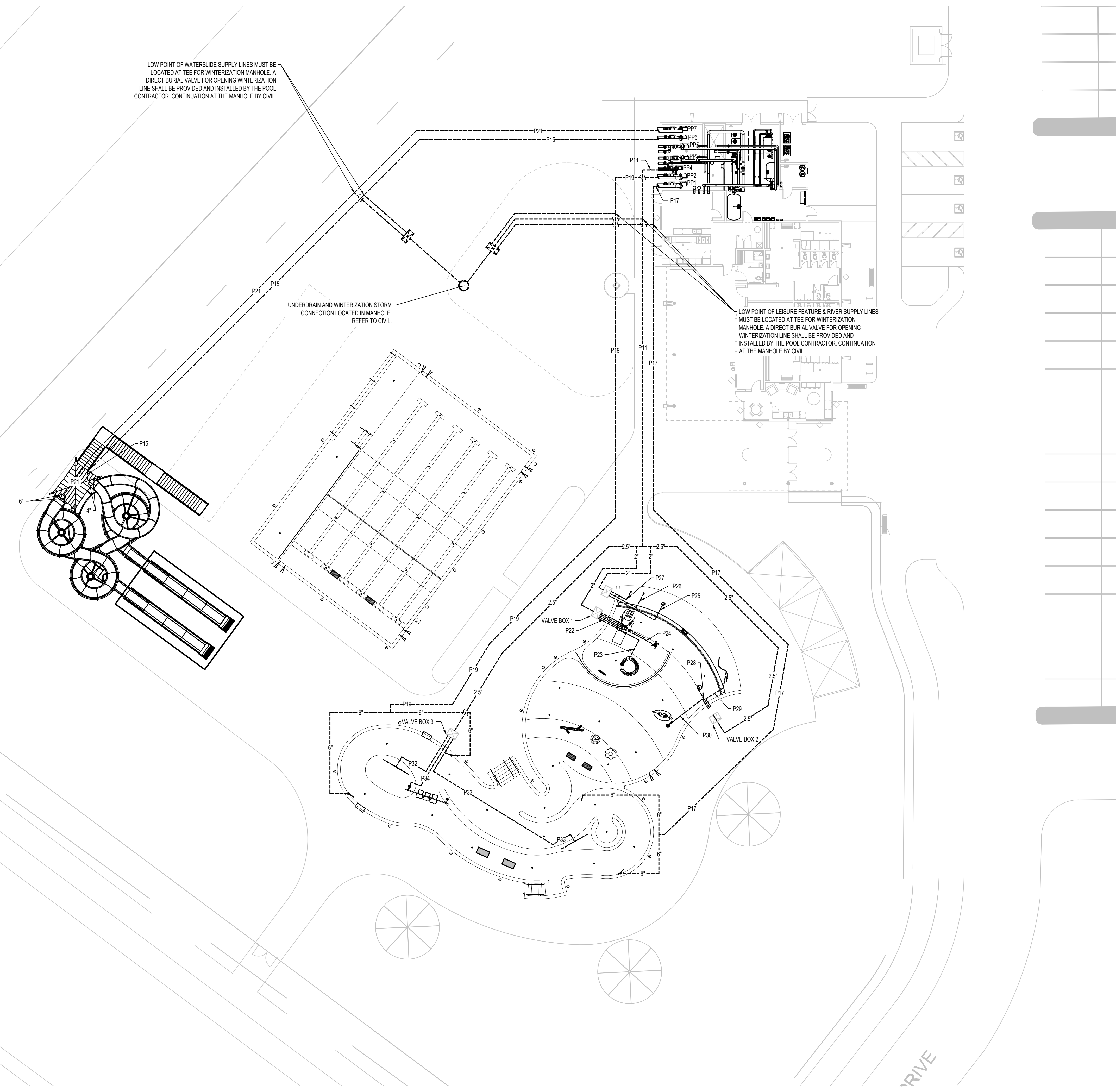
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DRAWING TITLE
POOL RETURN
PIPING PLAN

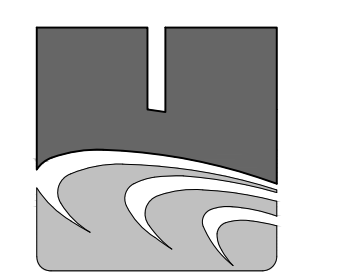
AQ602



| PIPE SCHEDULE | |
|---------------|--|
| ID | DESCRIPTION |
| P1 | 8" FROM M1 TO PP3 |
| P2 | 8" FROM LEISURE POOL SKIMMERS TO PP3 |
| P3 | 8" FROM PP3 TO F2 |
| P4 | 8" FROM F2 TO LEISURE POOL RETURN INLETS |
| P5 | 4" FROM P4 TO H2 |
| P6 | 4" FROM H2 TO P4 |
| P7 | 8" FROM F2 TO BACKWASH CATCH BASIN |
| P8 | 8" FROM L2 TO M4 |
| P9 | 4" FROM P3 TO BACKWASH CATCH BASIN |
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| P11 | 4" FROM PP4 TO LEISURE POOL VALVE BOXES |
| P12 | 3" FROM TRENCH DRAIN TO M1 |
| P13 | 4" FROM M3 TO M1 |
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| P15 | 6" FROM PP6 TO CLOSED FLUME SLIDE |
| P16 | 10" FROM M2 TO PP1 |
| P17 | 10" FROM PP1 TO LEISURE POOL RIVER NOZZLES |
| P18 | 10" FROM M2 TO PP2 |
| P19 | 10" FROM PP2 TO LEISURE POOL RIVER NOZZLES |
| P20 | 10" FROM M2 TO PP7 |
| P21 | 8" FROM PP7 TO OPEN FLUME SLIDE |
| P22 | 2" FROM VALVE BOX 1 TO FROG SLIDE |
| P23 | 1.5" FROM VALVE BOX 1 TO CASCADE LOOP |
| P24 | 1.5" FROM VALVE BOX 1 TO BUTTERFLY 1 |
| P25 | 1.5" FROM VALVE BOX 4 TO FOAMING GEYSER 2 |
| P26 | 1.5" FROM VALVE BOX 4 TO DIRECTIONAL JET 3 |
| P27 | 1.5" FROM VALVE BOX 4 TO ROOSTER TAIL |
| P28 | 1.5" FROM VALVE BOX 2 TO WATER BUG 2 |
| P29 | 2" FROM VALVE BOX 2 TO TEAM SPRAY 1 |
| P30 | 2" FROM VALVE BOX 2 TO SPRIG 2 |
| P31 | NOT USED |
| P32 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P33 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P34 | 1.5" FROM VALVE BOX 3 TO RIO NANO NO 1 |
| P35 | 8" FROM M4 TO PP5 |
| P36 | 8" FROM FITNESS POOL SKIMMERS TO PP5 |
| P37 | 8" FROM PP5 TO F1 |
| P38 | 6" FROM F1 TO FITNESS POOL RETURN INLETS |
| P39 | 4" FROM P38 TO H1 |
| P40 | 4" FROM H1 TO P38 |
| P41 | 6" FROM F1 TO BACKWASH CATCH BASIN |
| P42 | 6" FROM L1 TO M4 |
| P43 | 4" FROM P37 TO BACKWASH CATCH BASIN |
| P44 | 12" FROM WATERSLIDE SUMP TO M5 |
| P45 | 12" FROM WATERSLIDE SUMP TO M5 |
| P46 | 12" FROM WATERSLIDE SUMP TO M6 |
| P47 | 12" FROM WATERSLIDE SUMP TO M6 |



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DRAWING TITLE
POOL FEATURE
RETURN PIPING
PLAN

AQ603

| HEATER SCHEDULE | | | | | | | | | | | | | |
|-----------------|---------|-----------|----------|-----------------|----------------|----------------------|-------------------------|--------------------|------------------|---|----|----|-----|
| ID | POOL | MAKE | MODEL | HEATER QUANTITY | BOILER EFF (%) | COMBINED INPUT (MBH) | AIR INLET SIZE (INCHES) | PIPE SIZE (IN/OUT) | VENT SIZE (INCH) | ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER) | | | |
| | | | | | | | | | | V | PH | HZ | AMP |
| H1 | FITNESS | LOCHINVAR | CPN-1262 | 2 | 85 | 2,500 | 12 | 2.5 | 12 | 120 | 1 | 60 | 30 |
| H2 | LEISURE | LOCHINVAR | CPN-1802 | 2 | 85 | 3,600 | 12 | 2.5 | 14 | 120 | 1 | 60 | 30 |

NOTE:
1. THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR. ALTERNATE MANUFACTURER: RAYPACK OR APPROVED EQUAL.
2. HEATERS MUST BE INSTALLED ON 4" TALL HOUSEKEEPING PADS.
3. HEATERS FOR EACH POOL SHALL BE STACKED ON TOP OF EACH OTHER. REFER TO SPECIFICATION AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
4. REFER: 8/AQ704
5. EACH HEATER SHALL BE PROVIDED WITH AN EMERGENCY STOP BUTTON. REFER TO ELECTRICAL.

| UV TREATMENT SYSTEMS SCHEDULE | | | | | | |
|-------------------------------|--------------|-----------------|--|-------|----------|---------------------------------------|
| ID | POOL | MODEL NUMBER | US EPA 3-LOG AND CALCULATED 40MU/CM2 (GPM) | LAMPS | AMPS (A) | VOLTAGE (V) WITH BREAKER SIZE (60 HZ) |
| U1 | LEISURE POOL | SAG-480-APVC-CR | 387 | 4 | 4.8 | 120 V (1Ø)-20A |

NOTE:
1. THE BASIS OF DESIGN MANUFACTURER IS CHLORKING.
2. INTERLOCK UV SYSTEM WITH THE FEATURE PUMP VARIABLE FREQUENCY DRIVE.
3. REFER: 12/AQ704

| 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 | FITNESS | 44 | 10" | 10"x6" | 8" | 6" | 48 |
| L2 | LEISURE | 62 | 10" | 10"x6" | 8" | 6" | 24 |

NOTE:
REFER: 9/AQ702

| CHEMICAL FEED SCHEDULE | | | | | | |
|------------------------|--|--------------|-----------|-----|-------------|--|
| ID | DESCRIPTION | MANUFACTURER | MODEL | HP | FLOW | |
| CF1 | FITNESS CHLORINATION BOOSTER PUMP REFER: 2/AQ702 | ACCUTAB | 3070AT | 1.5 | 244 LBS/DAY | |
| CF2 | LEISURE POOL CHLORINATION BOOSTER PUMP REFER: 2/AQ702 | ACCUTAB | 3070AT | 1.5 | 244 LBS/DAY | |
| CF3 | FITNESS POOL CO2 FEED REFER: 4/AQ702 | BECS | BECSYSC02 | N/A | 20-200 SCFH | |
| CF4 | LEISURE POOL CO2 FEED REFER: 4/AQ702 | BECS | BECSYSC02 | 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.

| GENERAL POOL MECHANICAL ROOM NOTES | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 1. 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. 2. PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS. 3. THE INSIDE SURFACES OF THE BACKWASH CATCH BASIN MUST BE WATERPROOFED. REFER TO SPECIFICATION. 4. VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL. 5. 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. 6. REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN. 7. REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT. PIPING 1. MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING. 2. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS. 3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS. 4. 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. 5. HYDROSTATICALLY TEST ALL PIPING AT 90 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. 6. REFER TO DETAILS 2-7 ON DRAWING AQ703 FOR INSTALLATION OF PIPE SUPPORTS. 7. 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 1. CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATICS ON AQ800 & AQ801. 2. INTERLOCK POOL RECIRCULATION PUMPS WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMPS AND HEATERS. 3. PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER: 8/AQ702 4. 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. 5. WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW. 6. 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. 7. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS TO ALL WATER CHEMISTRY CONTROLLERS. REFER TO ELECTRICAL. 8. 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: 7/AQ702 ELECTRICAL 1. GFCIS PROVIDED AT OUTLETS. REFER TO ELECTRICAL. 2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL. 3. CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE. 4. 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.) | REQUIRED FILTRATION AREA (SQ. FT.) | DESIGN FILTRATION RATE (GPM/SQ. FT.) | DESIGN FILTRATION AREA (SQ. FT.) | FILTER BACKWASH RATE (GPM/SQ. FT.) | BACKWASH FLOW RATE PER FILTER (GPM) |
| F1 | FITNESS | NEPTUNE BENSON | SHFFG 42-60 | 2 | HRS | 13.0 | 40.4 | 12.9 | 40.8 | 20.0 | 408 |
| F2 | LEISURE | NEPTUNE BENSON | SHFFG 48-84 | 2 | HRS | 13.0 | 61.5 | 12.6 | 63.4 | 20.0 | 634 |

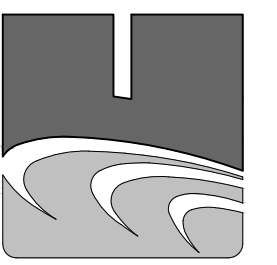
NOTE:
1. BACKWASH METHOD MUST BE MANUAL.
2. ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
3. FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
4. VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER VESSEL INDEPENDENTLY.
5. THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH CATCH BASIN 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 NO LESS THAN 15.0 GPM/SQ. FT.

| PUMP SCHEDULE | | | | | | | | | | | | |
|---------------|---|--------------|-----------|---------|------|-----|-----|-------|-------------|--------|------------------|--|
| ID | DESCRIPTION | MANUFACTURER | MODEL | SIZE | GPM | TDH | HP | NPSHR | HAIR & LINT | | NOTES | |
| | | | | | | | | | MAKE | SIZE | | |
| PP1 | LEISURE POOL RIVER PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"x5" | 1150 | 35 | 15 | 7.83 | MERMADE | 10"x6" | 1,2,3,4, 6,7 | |
| PP2 | LEISURE POOL RIVER PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"x5" | 1150 | 35 | 15 | 7.83 | MERMADE | 10"x6" | 1,2,3,4, 6,7 | |
| PP3 | LEISURE POOL RECIRCULATION PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"x5" | 800 | 85 | 30 | 8.30 | MERMADE | 8"x6" | 1,2,3,4,9 | |
| PP4 | LEISURE POOL FEATURE PUMP REFER: 1/AQ702 | AURORA | 2.5X3X9.5 | 3"x2.5" | 222 | 57 | 7.5 | 7.49 | MERMADE | 6"x3" | 1,2,3,4, 6,7 | |
| PP5 | FITNESS POOL RECIRCULATION PUMP REFER: 1/AQ702 | AURORA | 3X4X9.5 | 4"x3" | 525 | 80 | 20 | 7.99 | MERMADE | 8"x4" | 1,2,3,4,9 | |
| PP6 | CLOSED FLUME SLIDE PUMP REFER: 1/AQ702 | AURORA | 3X4X9.5 | 4"x3" | 500 | 55 | 15 | 7.54 | MERMADE | 8"x4" | 1,2,3,4, 5,6,7,8 | |
| PP7 | OPEN FLUME SLIDE PUMP REFER: 1/AQ702 | AURORA | 5X6X9.5A | 6"x5" | 1000 | 55 | 20 | 7.89 | MERMADE | 10"x6" | 1,2,3,4, 5,6,7,8 | |

NOTE:
1. THE MANUFACTURER INDICATED IS BASIS OF DESIGN. PUMP MANUFACTURERS: GRISWOLD, HERBORNER, PADO OR AURORA MUST BE CONSIDERED EQUAL PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS.
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 208 VOLT, 3 PHASE, 60HZ, 1800RPM MOTOR.
5. PROVIDE WITH CHECK VALVE.
6. PROVIDE VARIABLE FREQUENCY DRIVE.
7. PROVIDE REMOTE PUMP START.
8. PROVIDE EMERGENCY STOP.
9. PROVIDE WITH VARIABLE FREQUENCY DRIVE WITH BYPASS PANEL.



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CLIENT
**WILLISTON
COMMUNITY
BUILDERS**

PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
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CHECKED BY: CCH

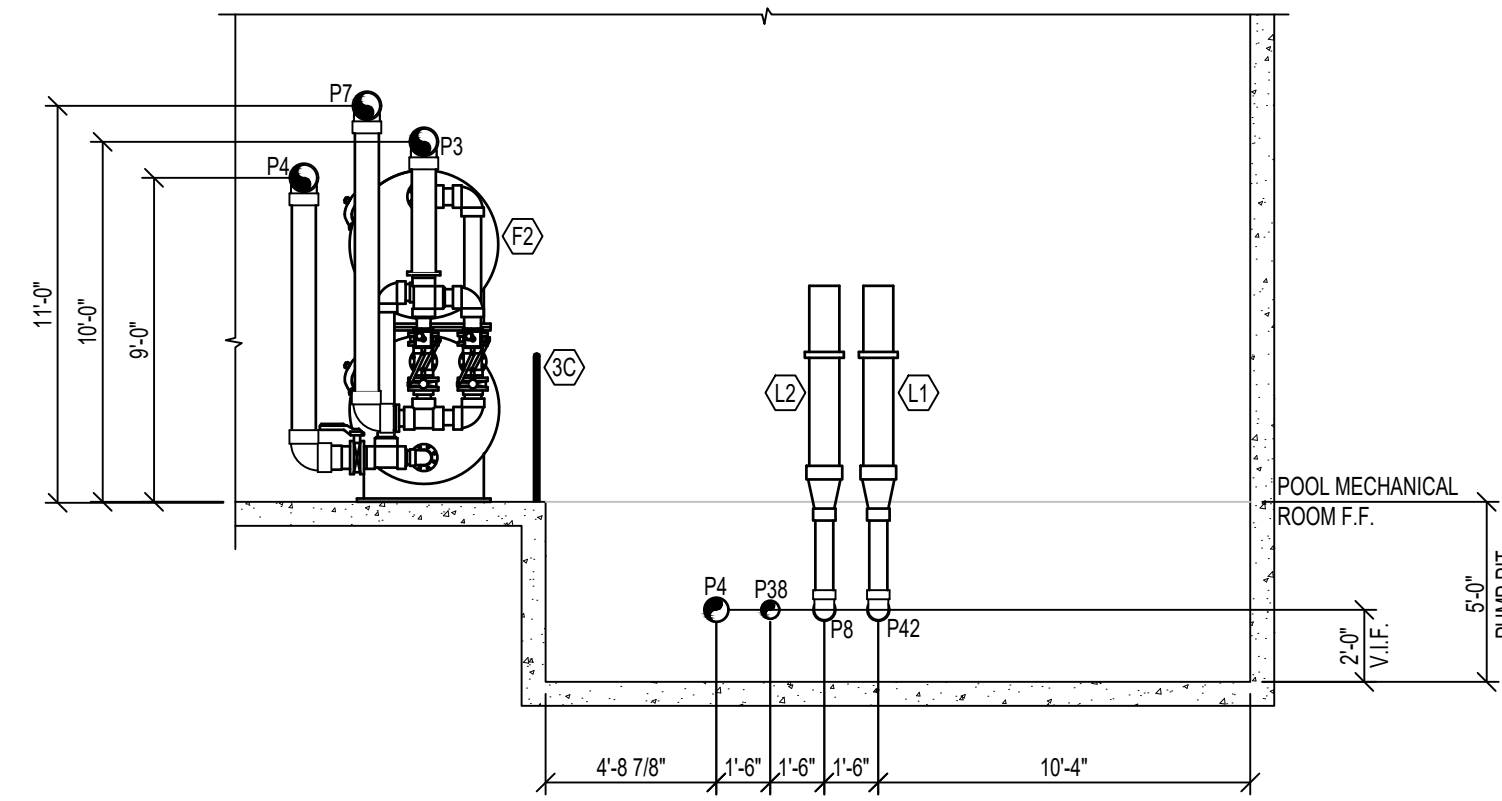
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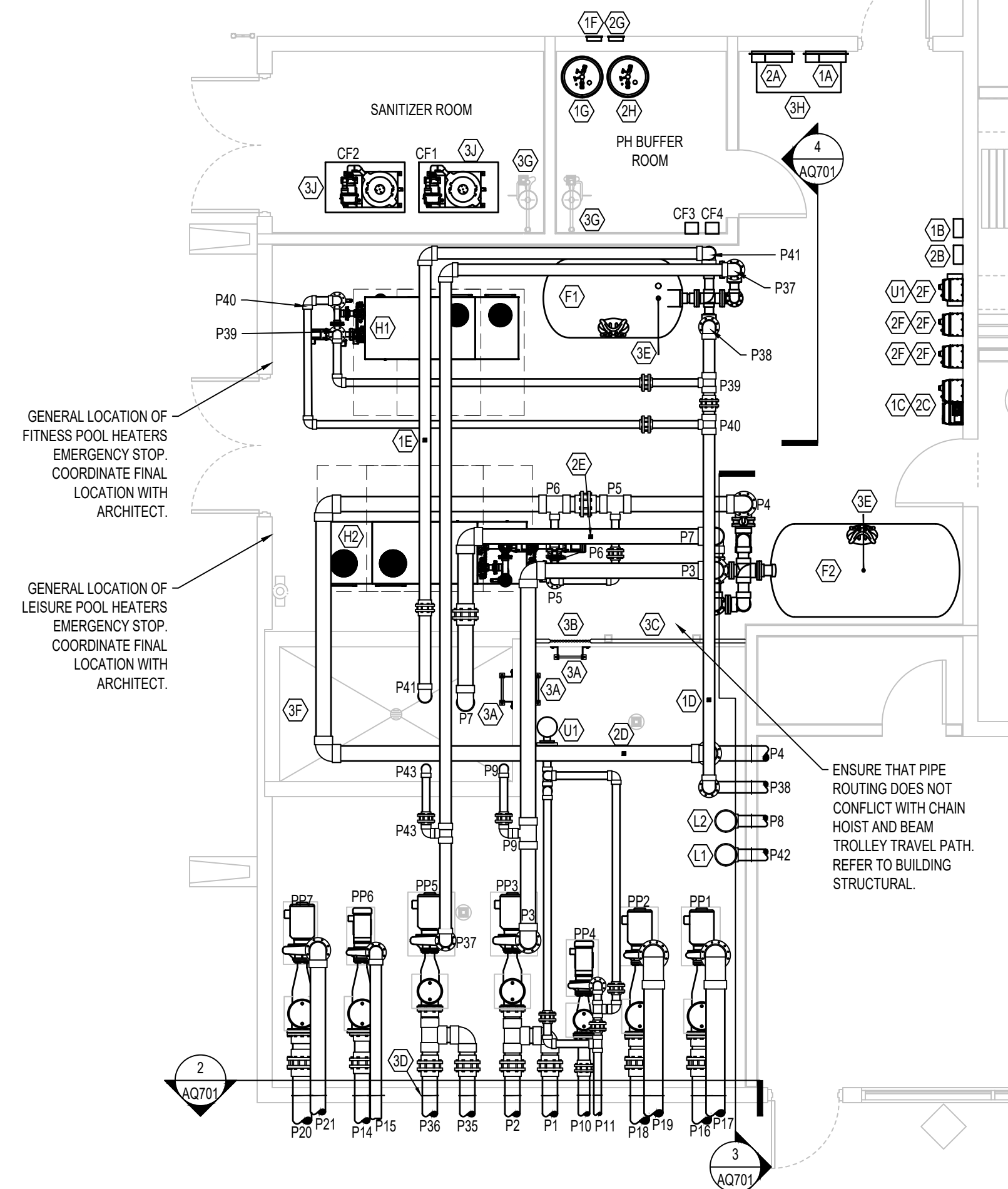


DRAWING TITLE
**POOL MECHANICAL
NOTES & SCHEDULES**

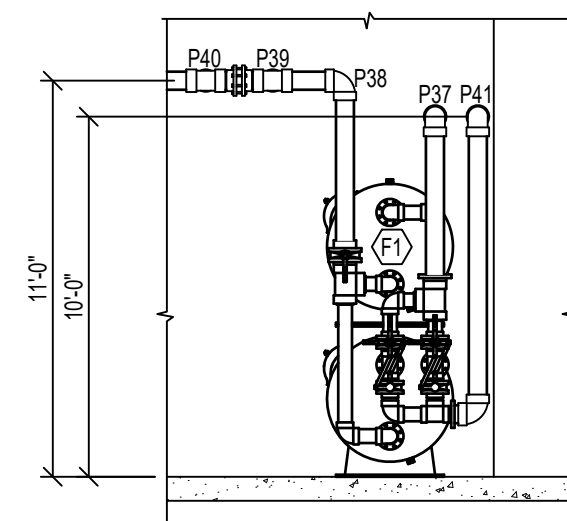
AQ700



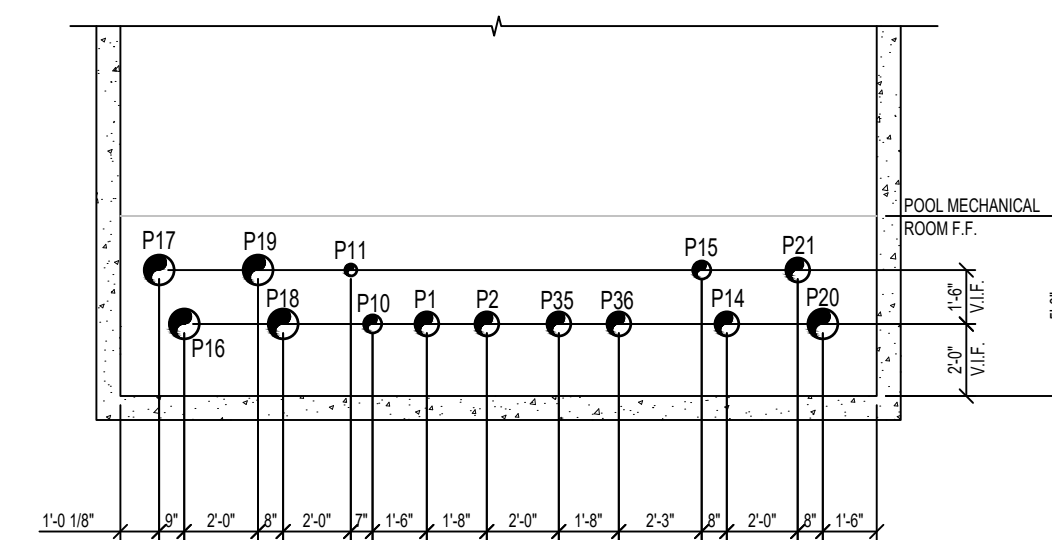
3 POOL MECHANICAL ROOM SECTION
AQ701 3/16" = 1'-0"



1 POOL MECHANICAL ROOM PLAN
AQ701 3/16" = 1'-0"



4 POOL MECHANICAL ROOM SECTION
AQ701 3/16" = 1'-0"



2 POOL MECHANICAL ROOM SECTION
AQ701 3/16" = 1'-0"

| PIPE SCHEDULE | |
|---------------|--|
| ID | DESCRIPTION |
| P1 | 8" FROM M1 TO PP3 |
| P2 | 8" FROM LEISURE POOL SKIMMERS TO PP3 |
| P3 | 8" FROM PP3 TO F2 |
| P4 | 8" FROM F2 TO LEISURE POOL RETURN INLETS |
| P5 | 4" FROM P4 TO H2 |
| P6 | 4" FROM H2 TO P4 |
| P7 | 8" FROM F2 TO BACKWASH CATCH BASIN |
| P8 | 6" FROM L2 TO M4 |
| P9 | 4" FROM P3 TO BACKWASH CATCH BASIN |
| P10 | 6" FROM M1 TO PP4 |
| P11 | 4" FROM PP4 TO LEISURE POOL VALVE BOXES |
| P12 | 3" FROM TRENCH DRAIN TO M1 |
| P13 | 4" FROM M3 TO M1 |
| P14 | 8" FROM M1 TO PP6 |
| P15 | 6" FROM PP6 TO CLOSED FLUME SLIDE |
| P16 | 10" FROM M2 TO PP1 |
| P17 | 10" FROM PP1 TO LEISURE POOL RIVER NOZZLES |
| P18 | 10" FROM M2 TO PP2 |
| P19 | 10" FROM PP2 TO LEISURE POOL RIVER NOZZLES |
| P20 | 10" FROM M2 TO PP7 |
| P21 | 8" FROM PP7 TO OPEN FLUME SLIDE |
| P22 | 2" FROM VALVE BOX 1 TO FROG SLIDE |
| P23 | 1.5" FROM VALVE BOX 1 TO CASCADE LOOP |
| P24 | 1.5" FROM VALVE BOX 1 TO BUTTERFLY 1 |
| P25 | 1.5" FROM VALVE BOX 4 TO FOAMING GEYSER 2 |
| P26 | 1.5" FROM VALVE BOX 4 TO DIRECTIONAL JET 3 |
| P27 | 1.5" FROM VALVE BOX 4 TO ROOSTER TAIL |
| P28 | 1.5" FROM VALVE BOX 2 TO WATER BUG 2 |
| P29 | 2" FROM VALVE BOX 2 TO TEAM SPRAY 1 |
| P30 | 2" FROM VALVE BOX 2 TO SPRIG 2 |
| P31 | NOT USED |
| P32 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P33 | 2" FROM VALVE BOX 3 TO WATER TUNNEL NO 1 |
| P34 | 1.5" FROM VALVE BOX 3 TO RIO NANO NO 1 |
| P35 | 8" FROM M4 TO PP5 |
| P36 | 8" FROM FITNESS POOL SKIMMERS TO PP5 |
| P37 | 6" FROM PP5 TO F1 |
| P38 | 6" FROM F1 TO FITNESS POOL RETURN INLETS |
| P39 | 4" FROM P38 TO H1 |
| P40 | 4" FROM H1 TO P38 |
| P41 | 6" FROM F1 TO BACKWASH CATCH BASIN |
| P42 | 6" FROM L1 TO M4 |
| P43 | 4" FROM P37 TO BACKWASH CATCH BASIN |
| P44 | 12" FROM WATERSLIDE SUMP TO M5 |
| P45 | 12" FROM WATERSLIDE SUMP TO M5 |
| P46 | 12" FROM WATERSLIDE SUMP TO M6 |
| P47 | 12" FROM WATERSLIDE SUMP TO M6 |

NOTE:
IN THE CASE THAT THE FITNESS POOL IS PLANNED TO BE BUILT AT A LATER DATE, PIPING MUST BE STUBBED AND CAPPED AT A LENGTH OF 30" ON EACH SIDE OF THE PUMP PIT WALL.

| EQUIPMENT SCHEDULE | |
|--------------------|---|
| ID | ITEM |
| FITNESS POOL | |
| 1A | CHEMICAL CONTROLLER REFER: 3/AQ702 |
| 1B | WATER LEVEL CONTROLLER REFER: 3/AQ704 |
| 1C | VARIABLE FREQUENCY DRIVE AND BYPASS PANEL |
| 1D | FLOW METER SENSOR REFER: 10/AQ702 |
| 1E | IMPACT FLOW METER REFER: 11/AQ702 |
| 1F | CO2 FILL BOX REFER: 6/AQ702 |
| 1G | CO2 TANK REFER: 4/AQ702 |
| LEISURE POOL | |
| 2A | CHEMICAL CONTROLLER REFER: 3/AQ702 |
| 2B | WATER LEVEL CONTROLLER REFER: 3/AQ704 |
| 2C | VARIABLE FREQUENCY DRIVE AND BYPASS PANEL |
| 2D | FLOW METER SENSOR REFER: 10/AQ702 |
| 2E | IMPACT FLOW METER REFER: 11/AQ702 |
| 2F | VARIABLE FREQUENCY DRIVE |
| 2G | CO2 FILL BOX REFER: 6/AQ702 |
| 2H | CO2 TANK REFER: 4/AQ702 |
| COMBINED | |
| 3A | LADDER RUNGS REFER TO ARCHITECT |
| 3B | SAFETY CHAIN REFER TO ARCHITECT |
| 3C | REMOVABLE RAILING REFER TO ARCHITECT |
| 3D | WATER SEAL REFER: 11/AQ703 |
| 3E | HARD PIPE TO DRAIN |
| 3F | 10'-4"x6'-0"x10'-0" DEEP BACKWASH CATCH BASIN |
| 3G | EYE WASH STATION REFER TO PLUMBING |
| 3H | WORKBENCH REFER TO SPECIFICATION 131100 FOR DETAILS |
| 3I | CHLORINE FEEDER SPILL PLATFORM REFER TO SPECIFICATION 131100 FOR DETAILS |



CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

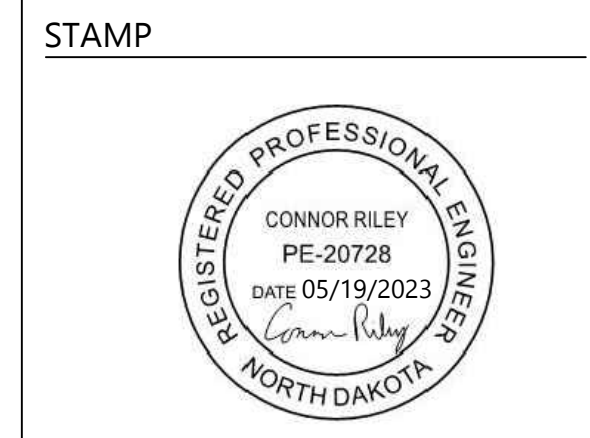
CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| MARK | DESCRIPTION | DATE |
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| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |

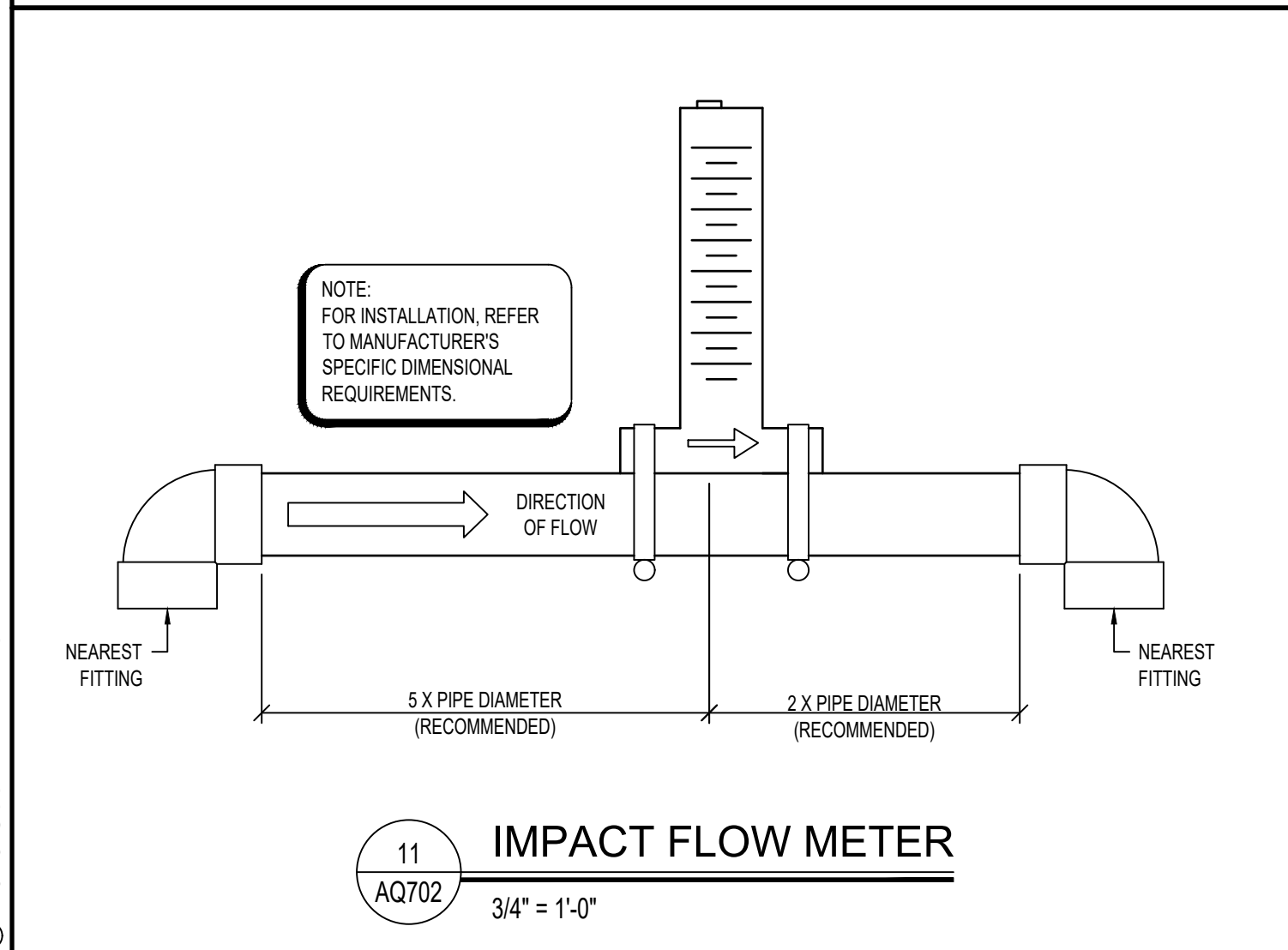
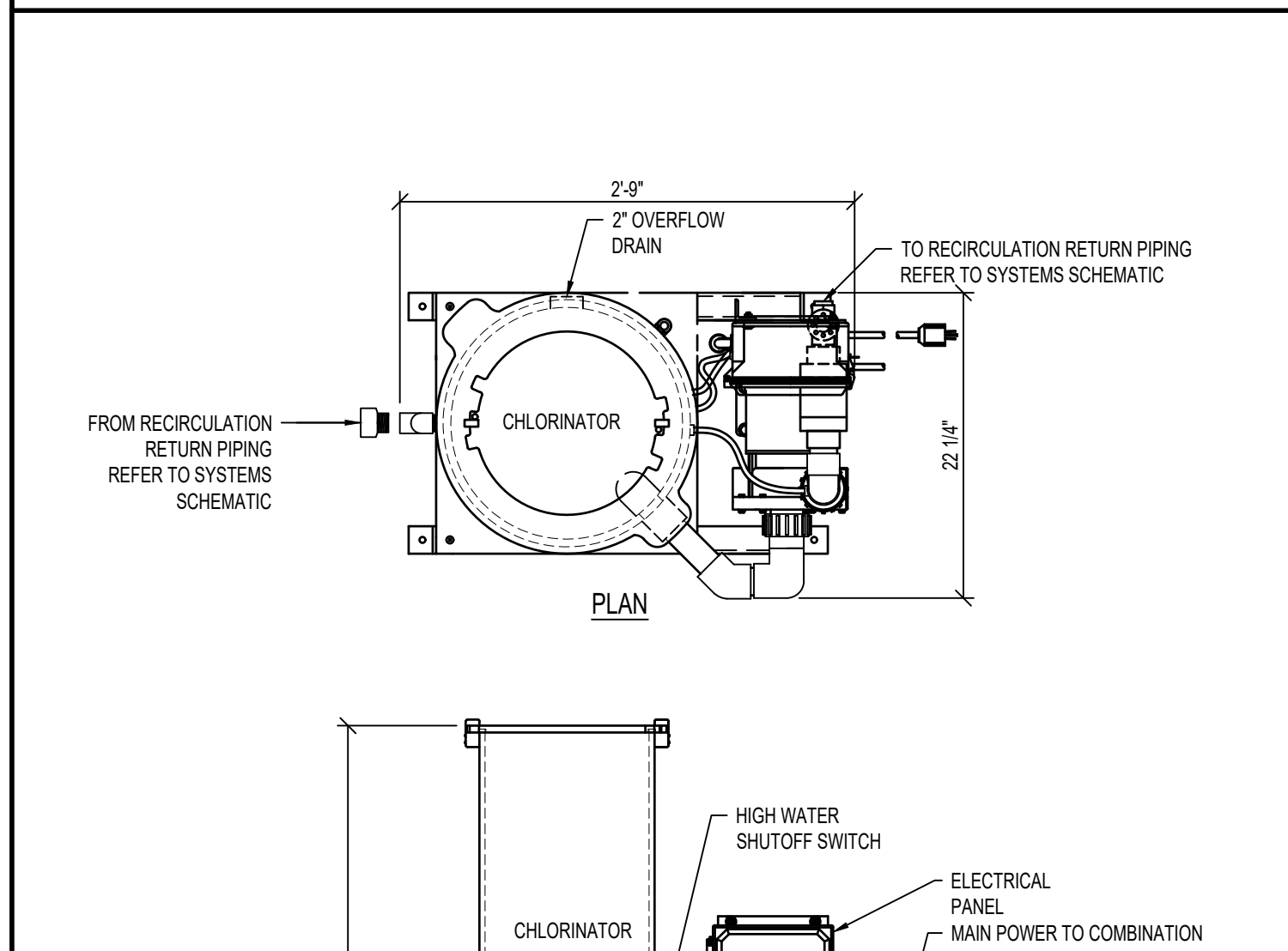
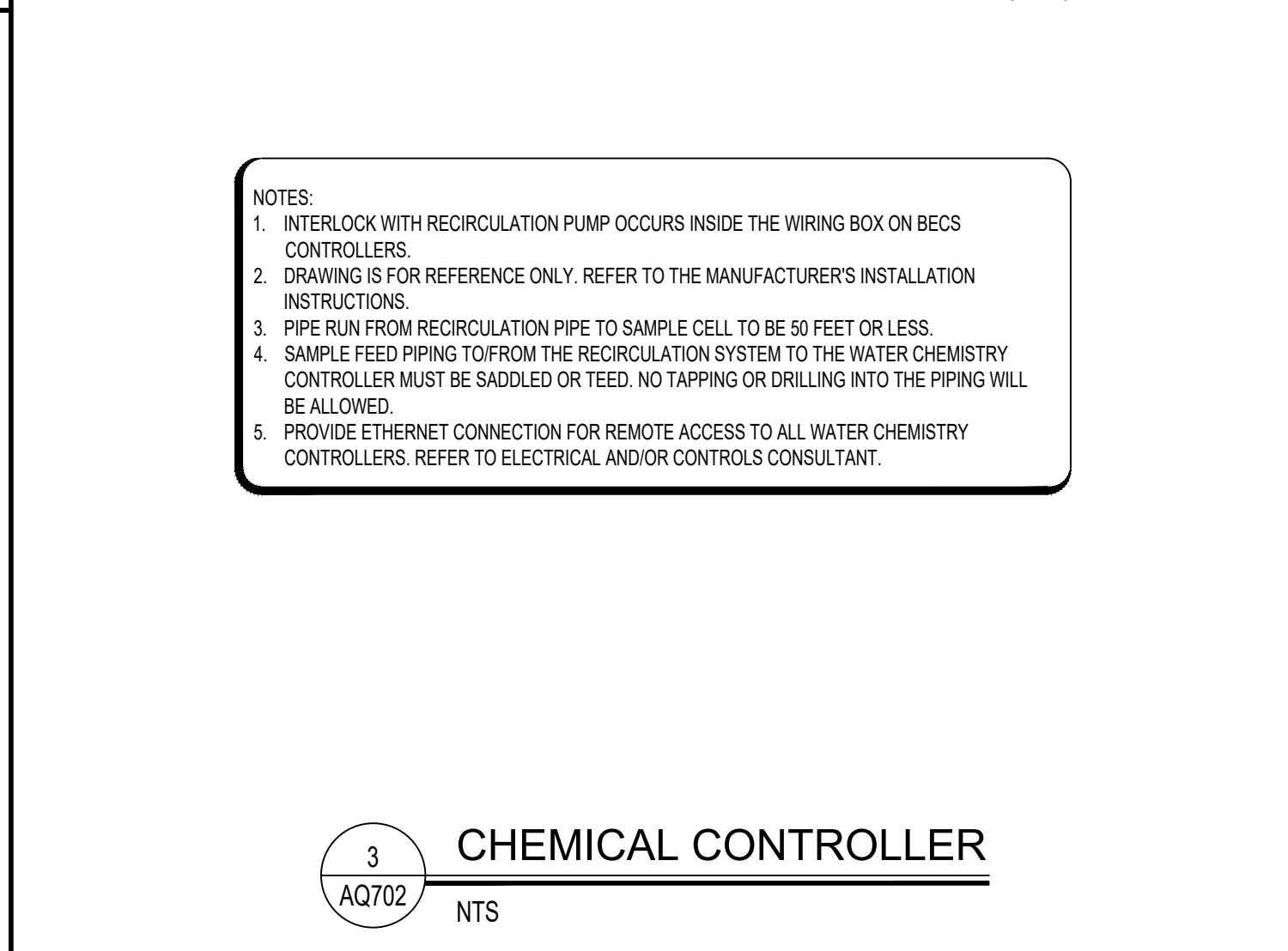
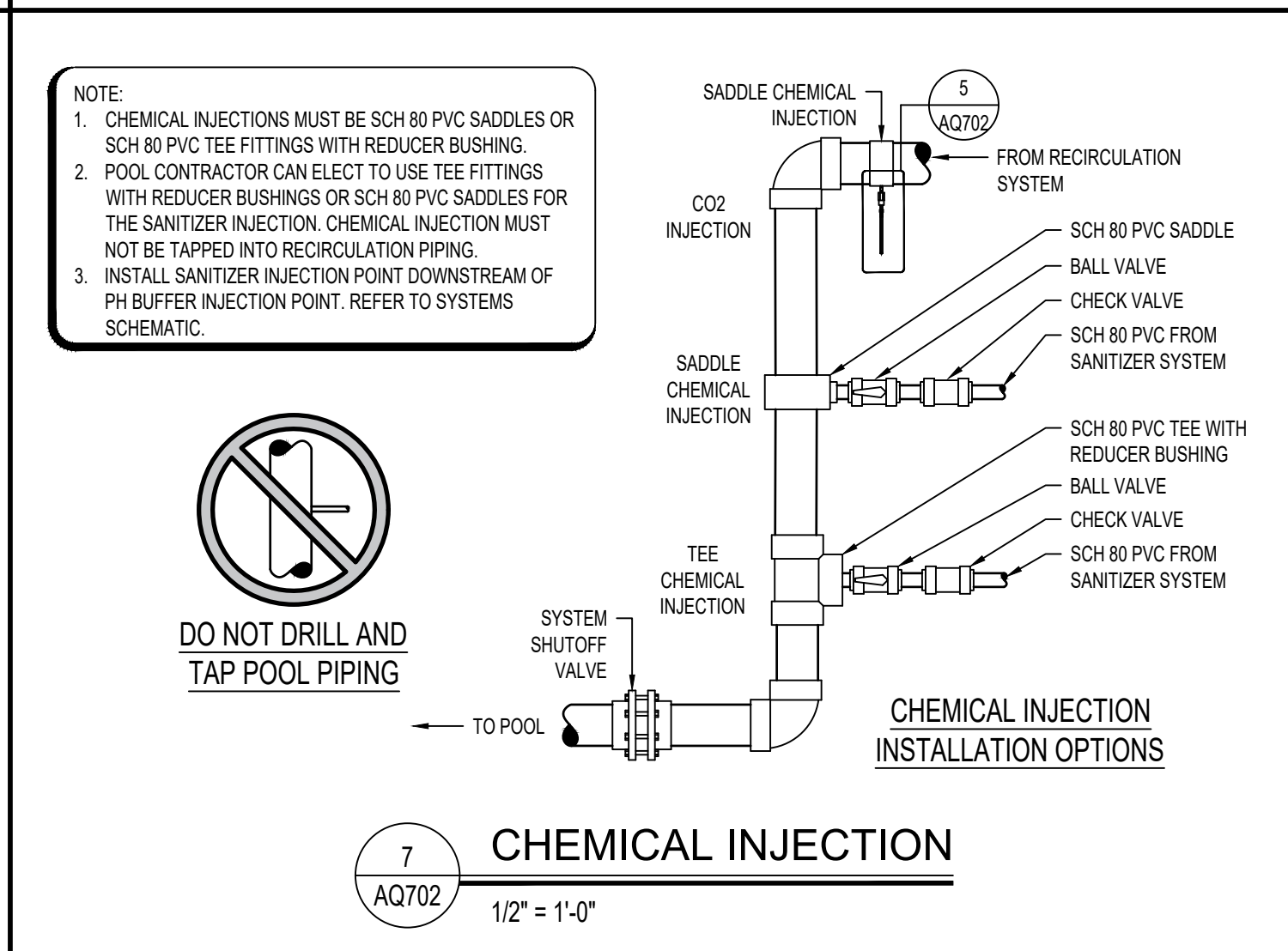
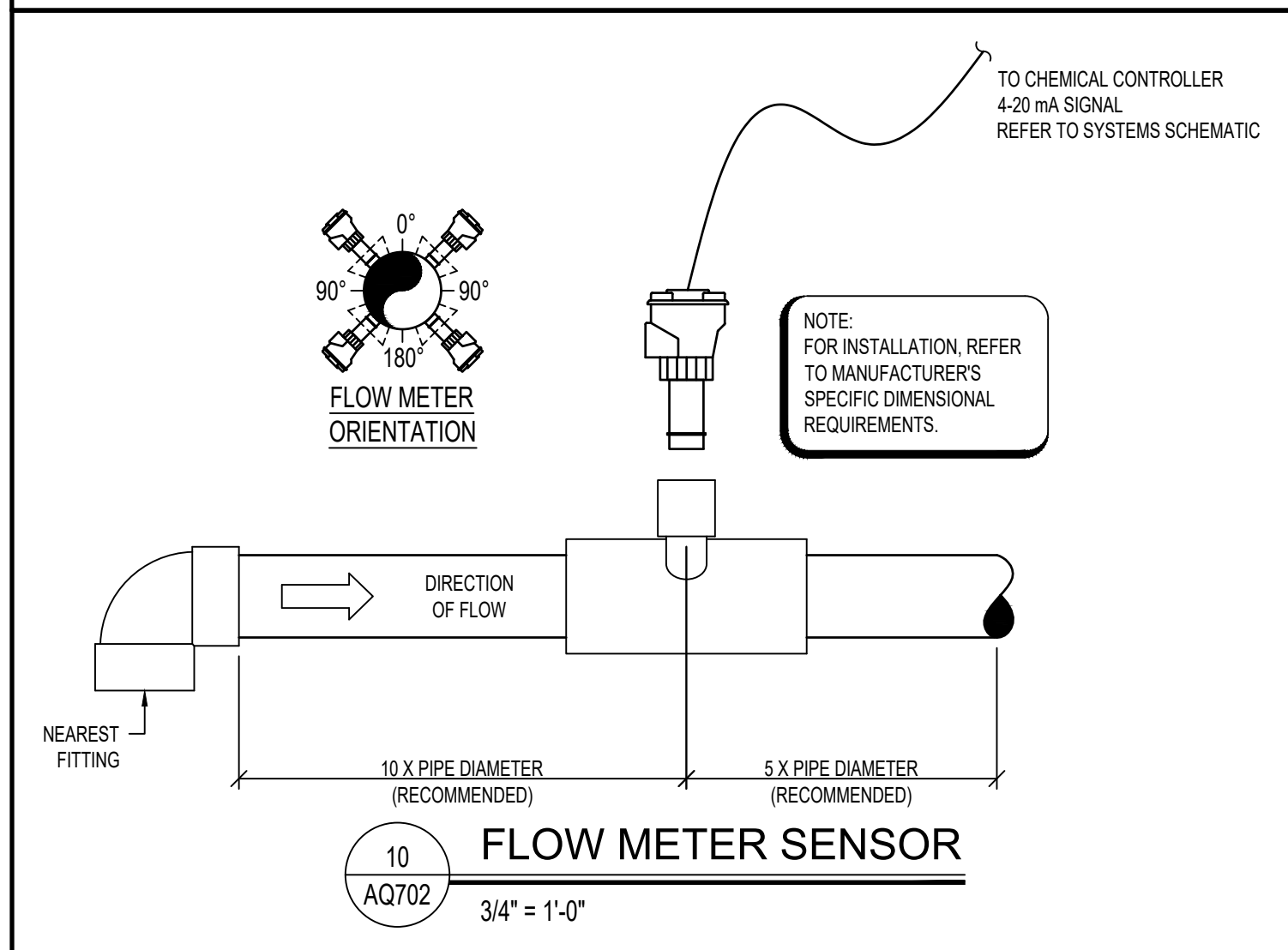
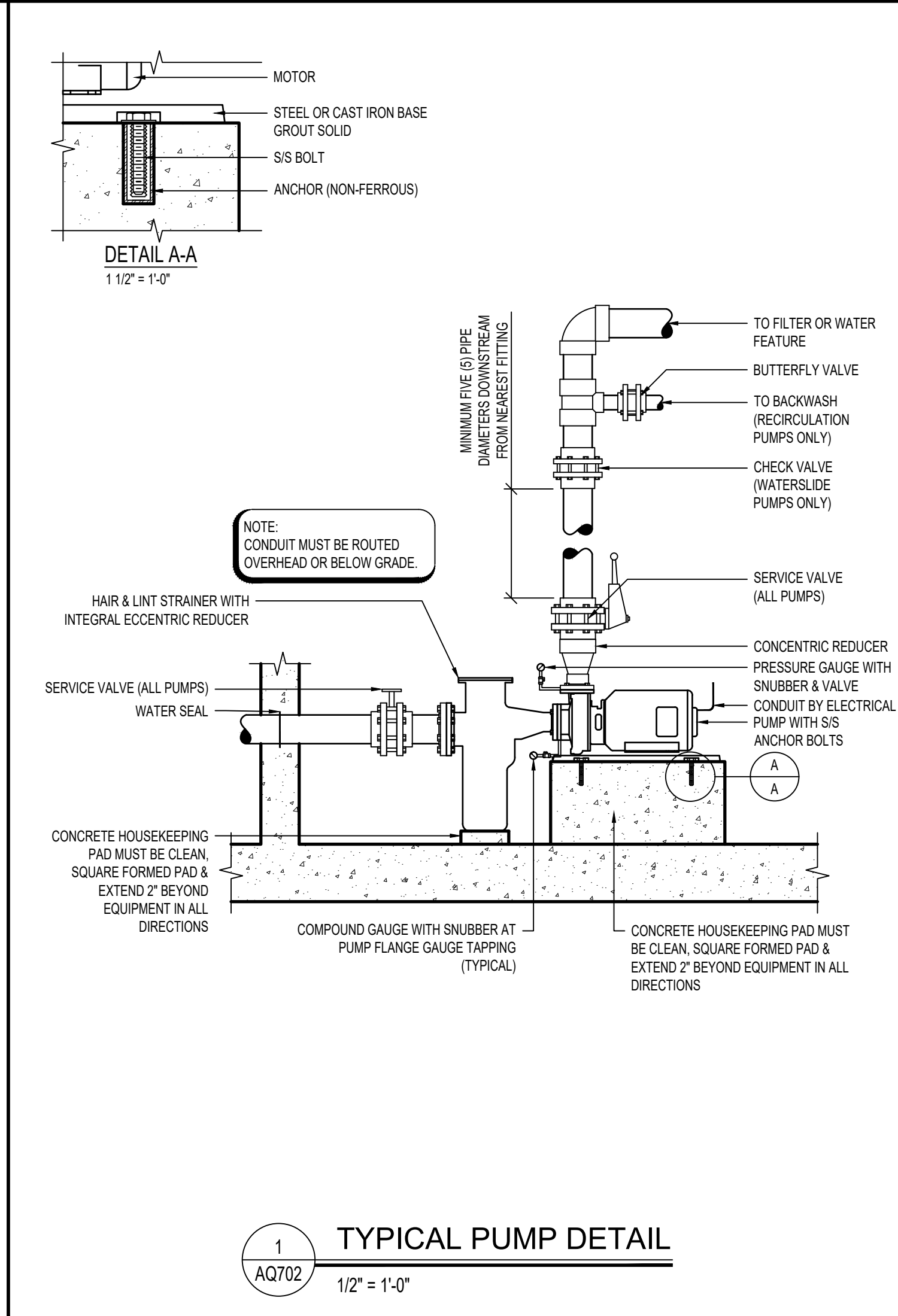
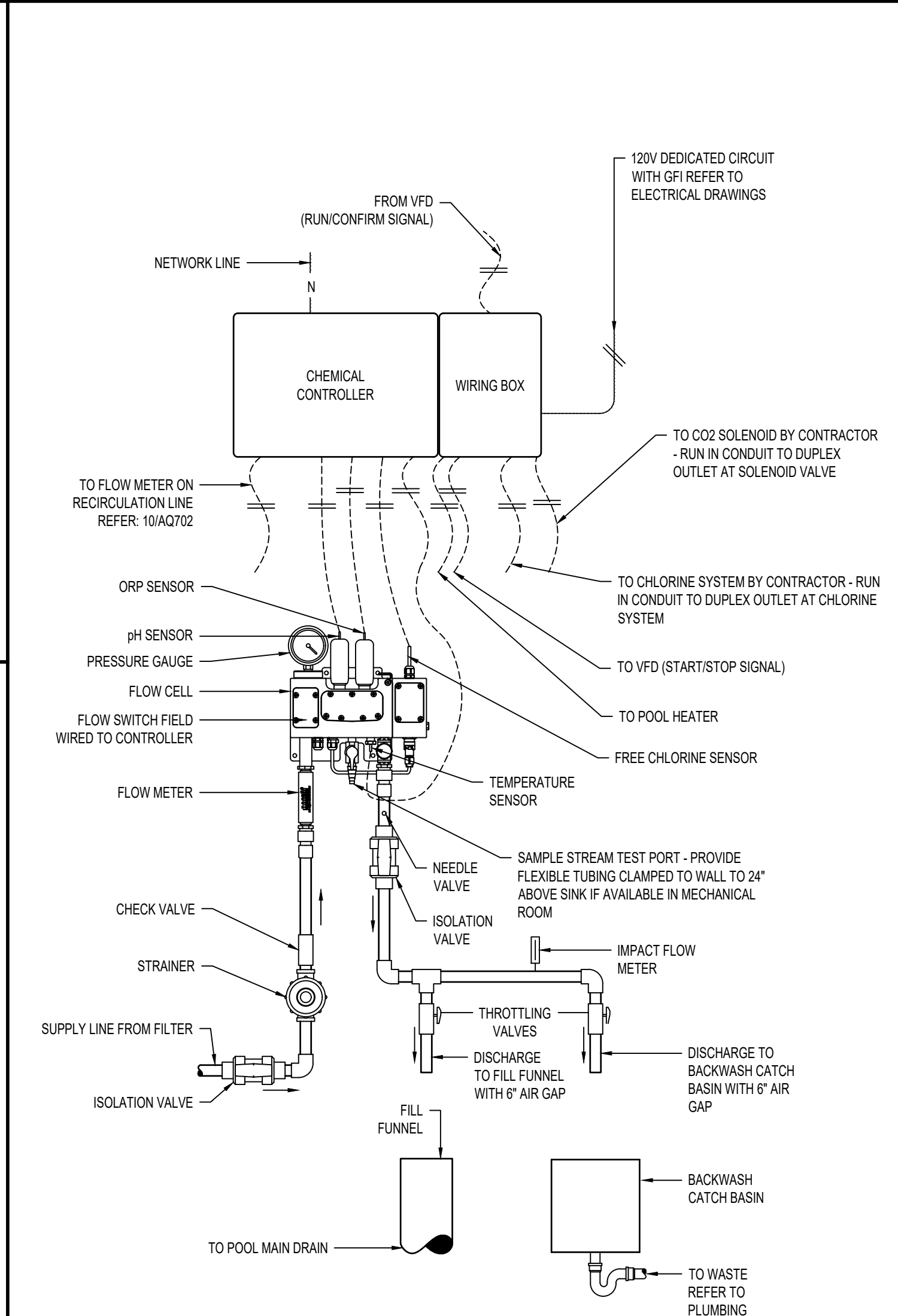
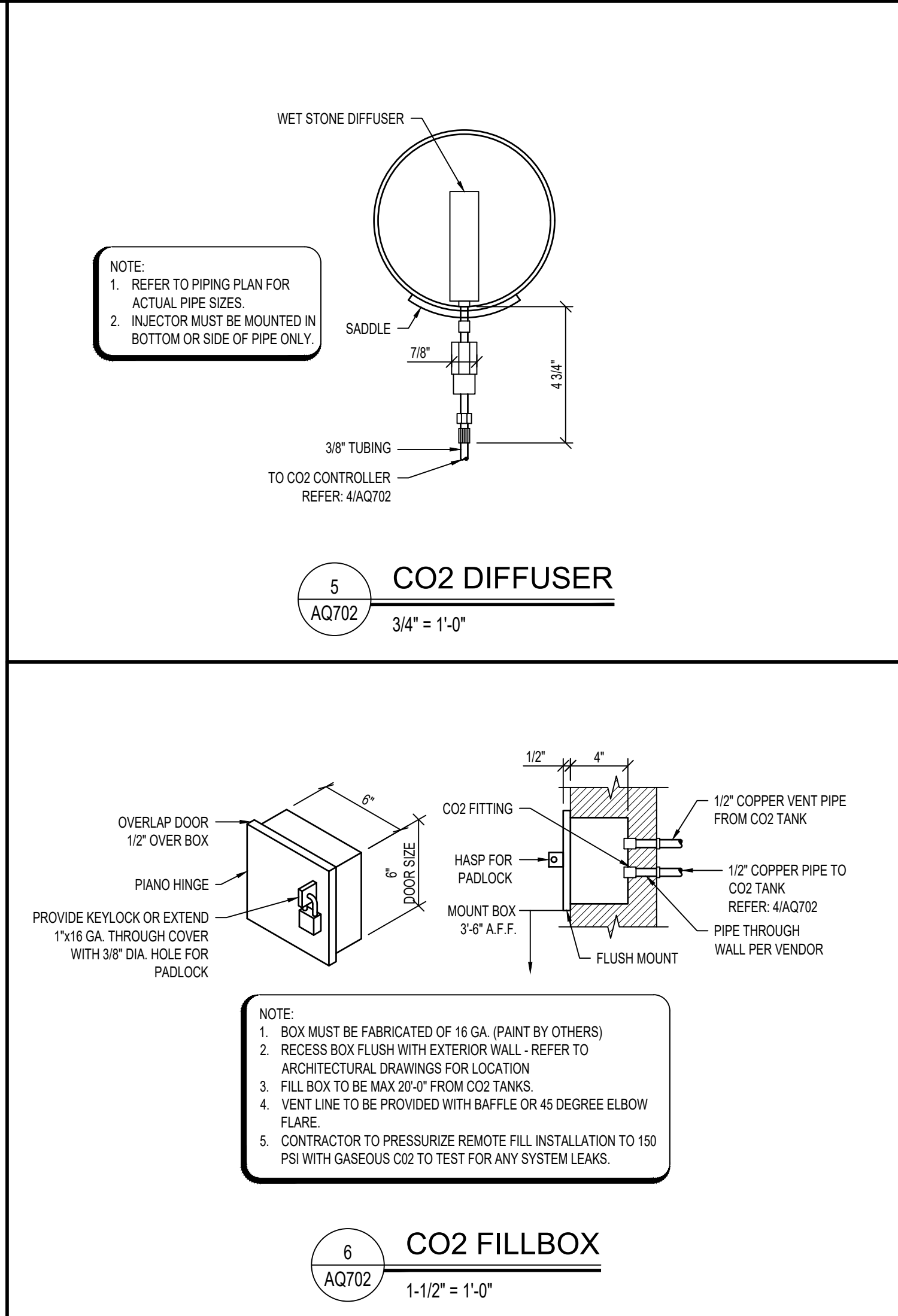
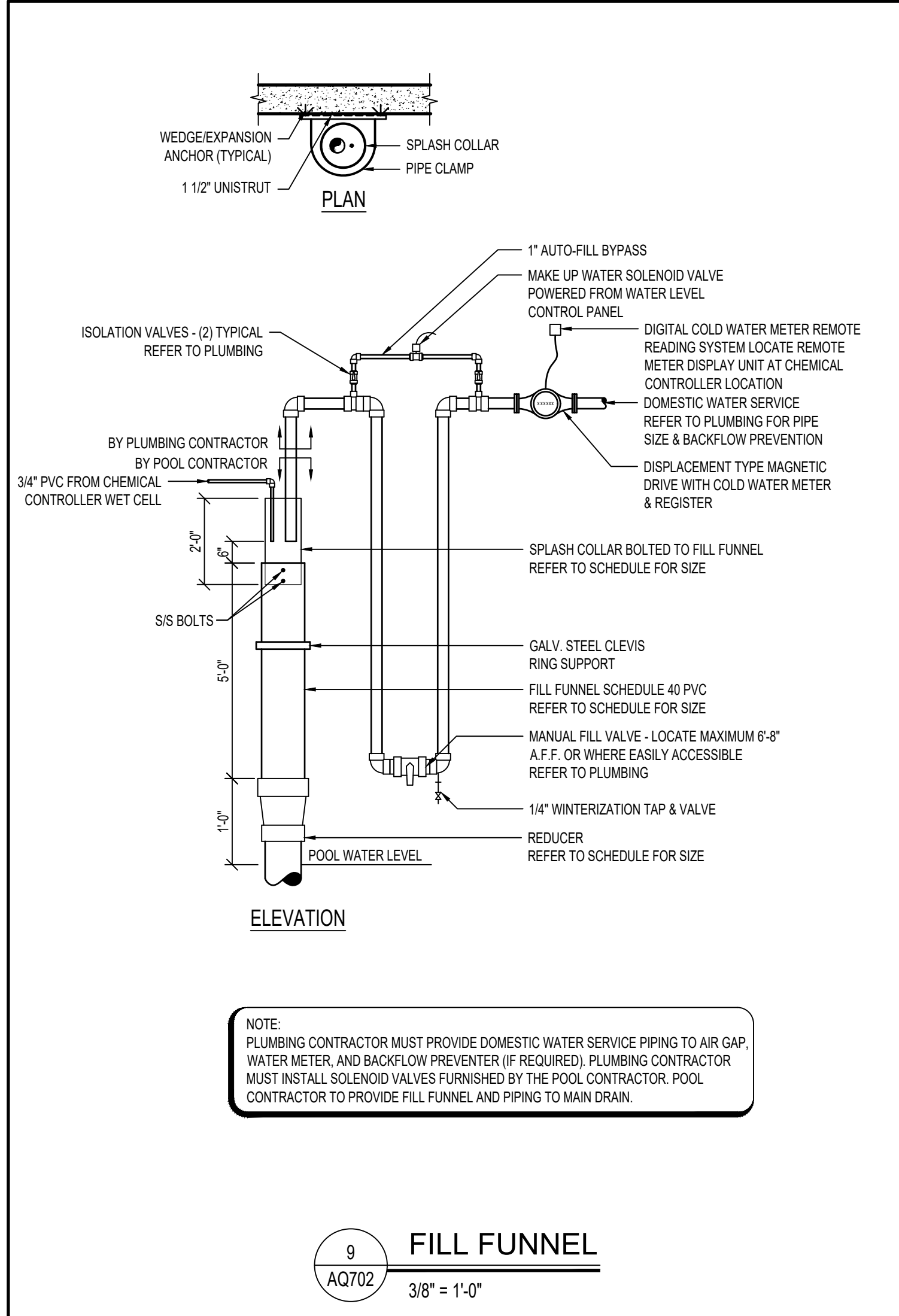
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POOL MECHANICAL ROOM PLAN & SECTIONS

AQ701

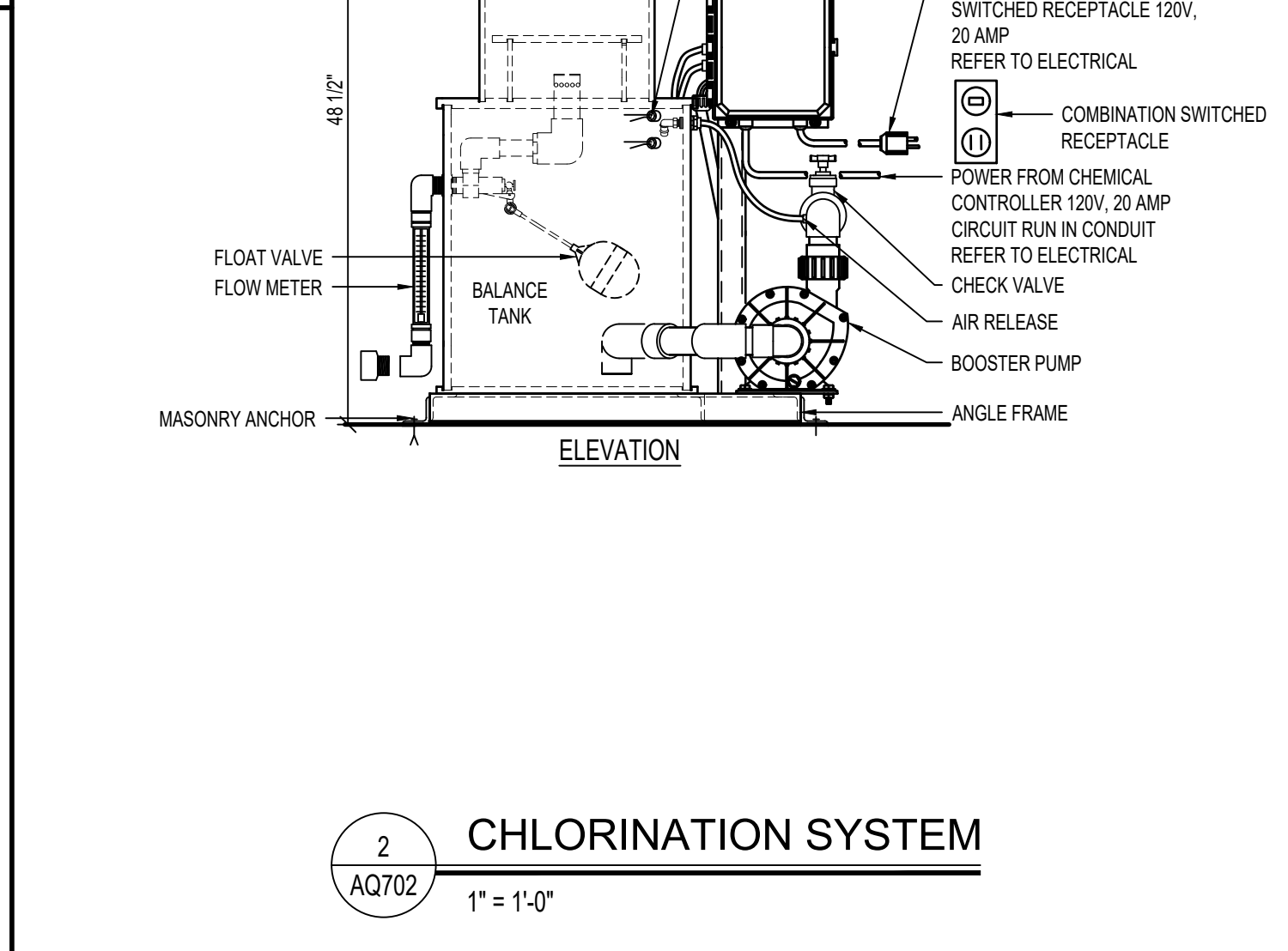
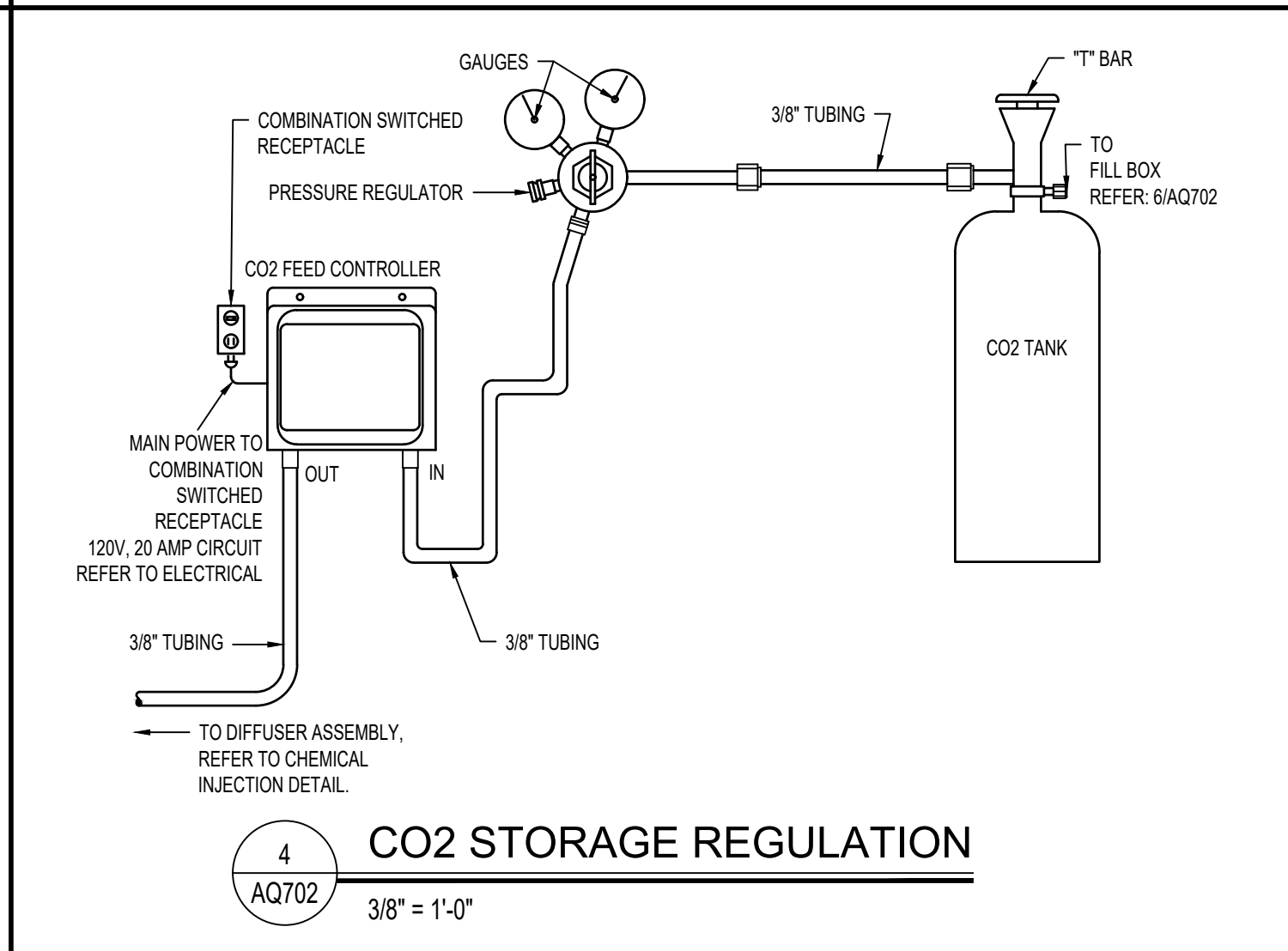


8 HAZARD SIGNAGE
NTS

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

| 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 |

FLAMMABILITY HAZARD
HEALTH HAZARD
INSTABILITY HAZARD
CALCIUM HYPOCHLORITE
CARBON DIOXIDE



CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

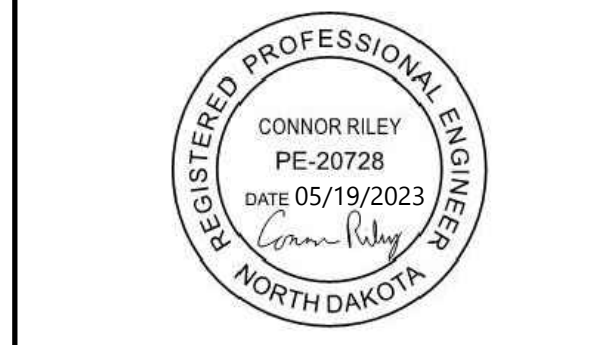
ISSUE DATES

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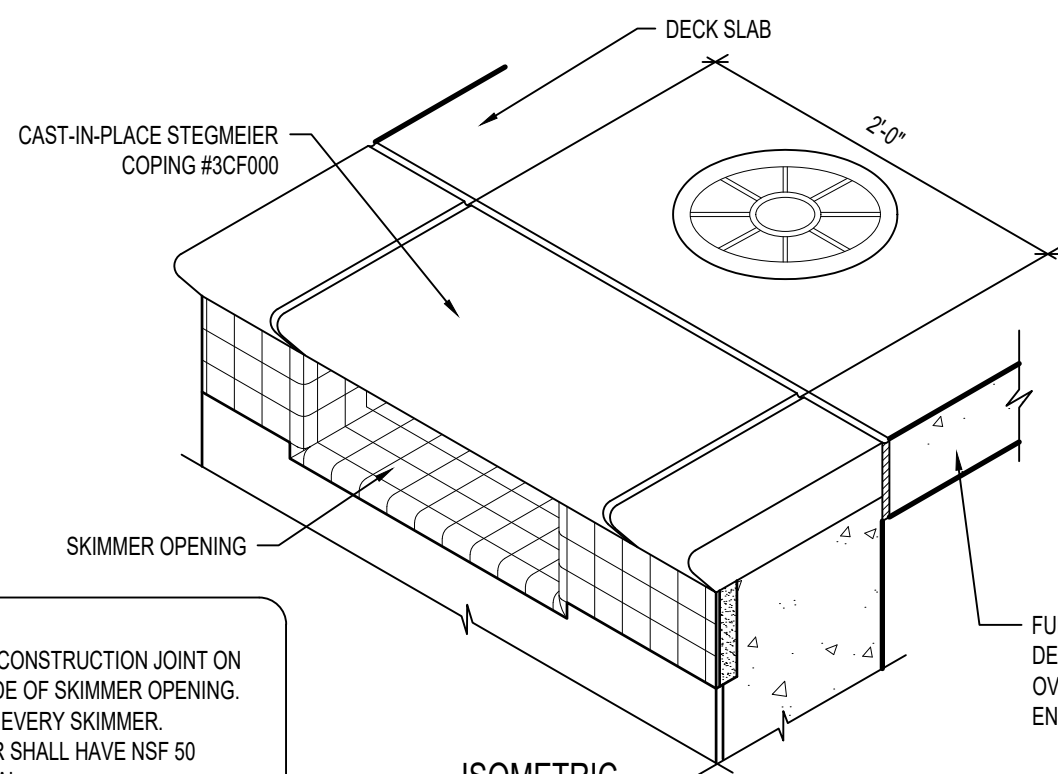
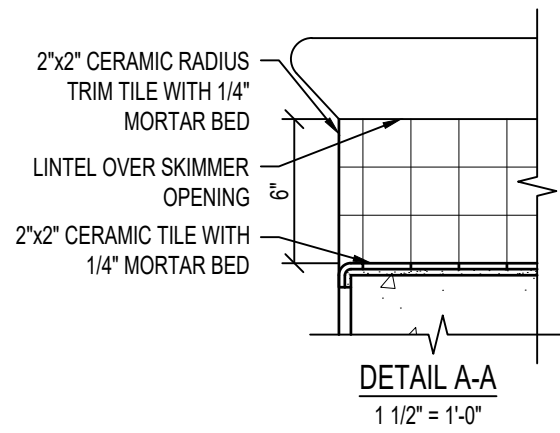
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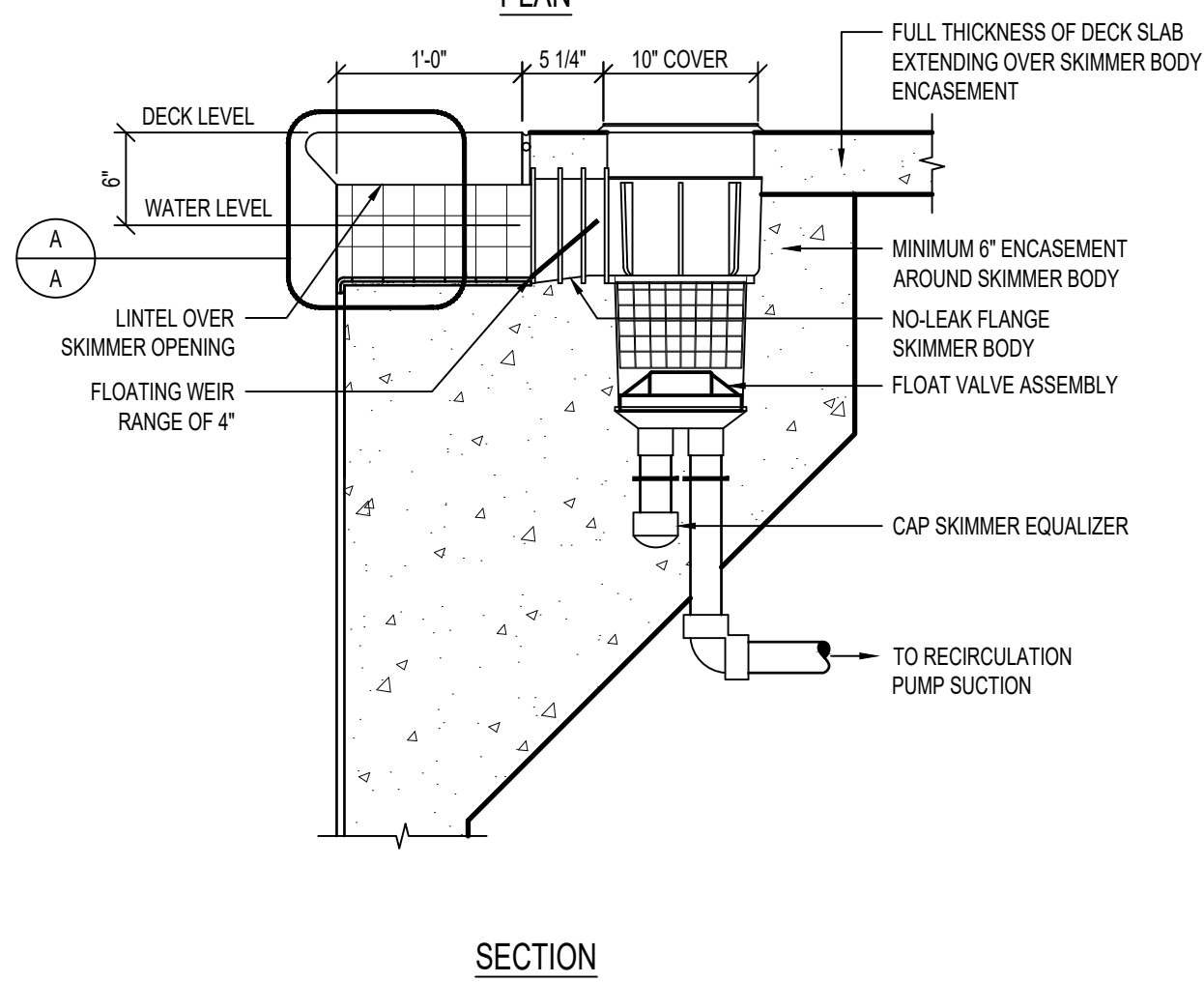
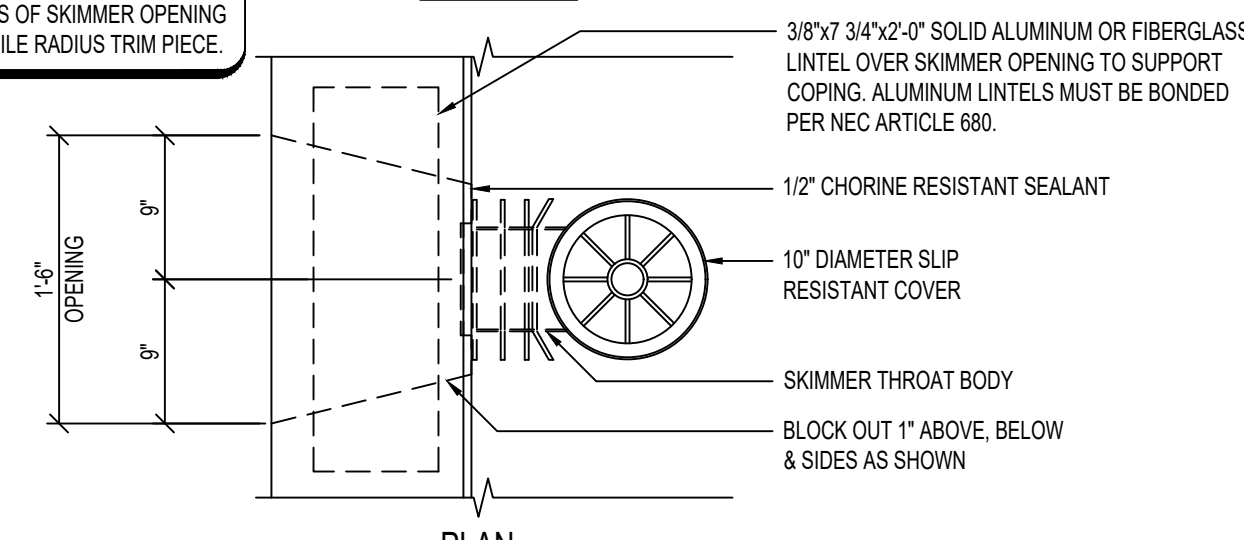
DRAWING TITLE
POOL MECHANICAL DETAILS

AQ702



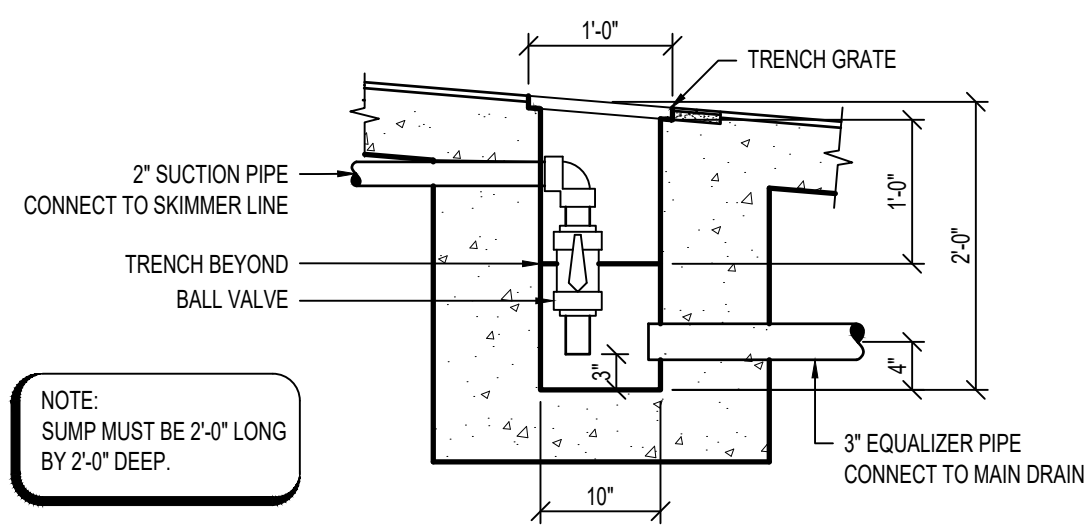
- NOTE:
1. COPING CONSTRUCTION JOINT ON EACH SIDE OF SKIMMER OPENING. TYPICAL EVERY SKIMMER.
 2. SKIMMER SHALL HAVE NSF 50 APPROVAL.
 3. ALL CORNERS OF SKIMMER OPENING SHALL BE A TILE RADIUS TRIM PIECE.

ISOMETRIC



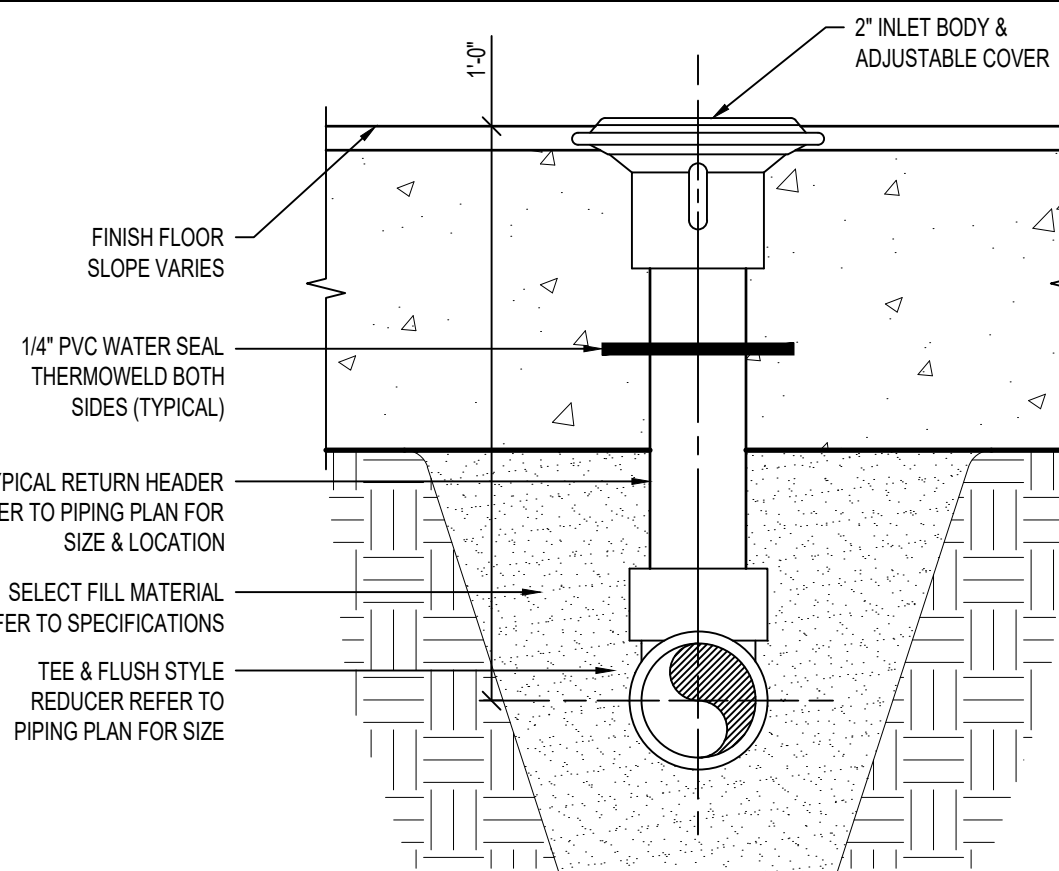
SECTION

13 SKIMMER DETAIL
AQ703 1" = 1'-0"



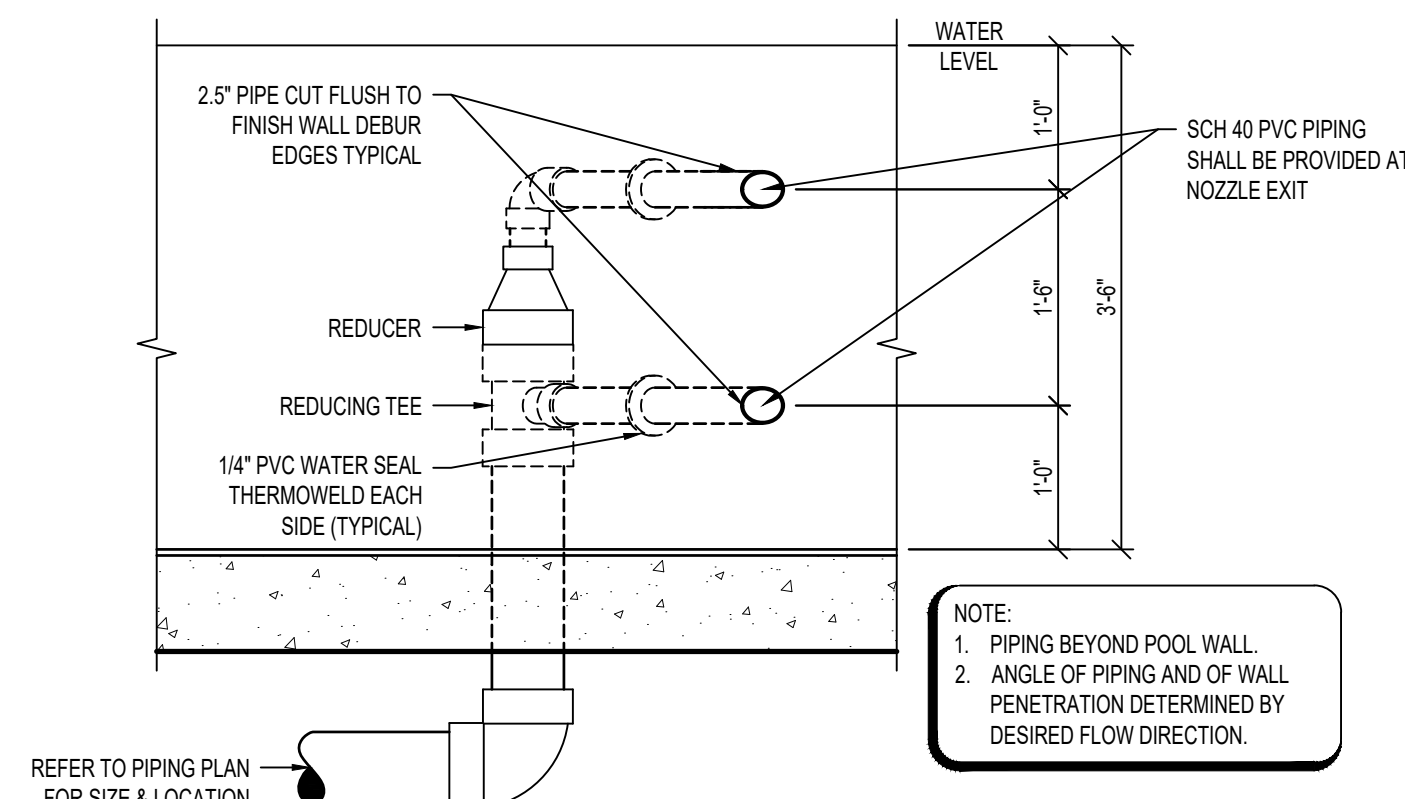
- NOTE:
1. SUMP MUST BE 2'-0" LONG BY 2'-0" DEEP.

9 TRENCH SUMP
AQ703 3/4" = 1'-0"



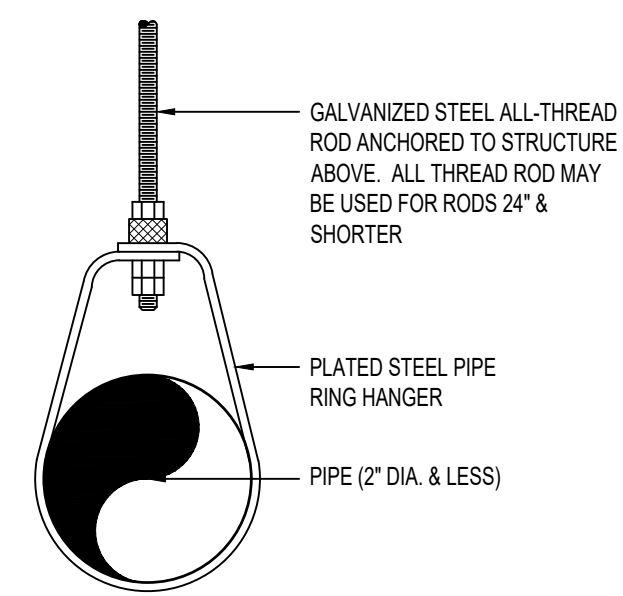
- NOTE:
1. SET INLET FLUSH WITH FINISH POOL FLOOR. WHERE POOL FLOOR IS ON A SLOPE, PIPING MUST BE STUBBED UP AND INSTALLED PERPENDICULAR TO THE FACE OF THE POOL FLOOR. DO NOT LOCATE FLOOR INLETS AT A CHANGE IN SLOPE.
 2. CAP PIPE AND HYDROSTATICALLY TEST PER SPECIFICATIONS BEFORE CONCEALMENT.

10 FLOOR INLET
AQ703 3" = 1'-0"



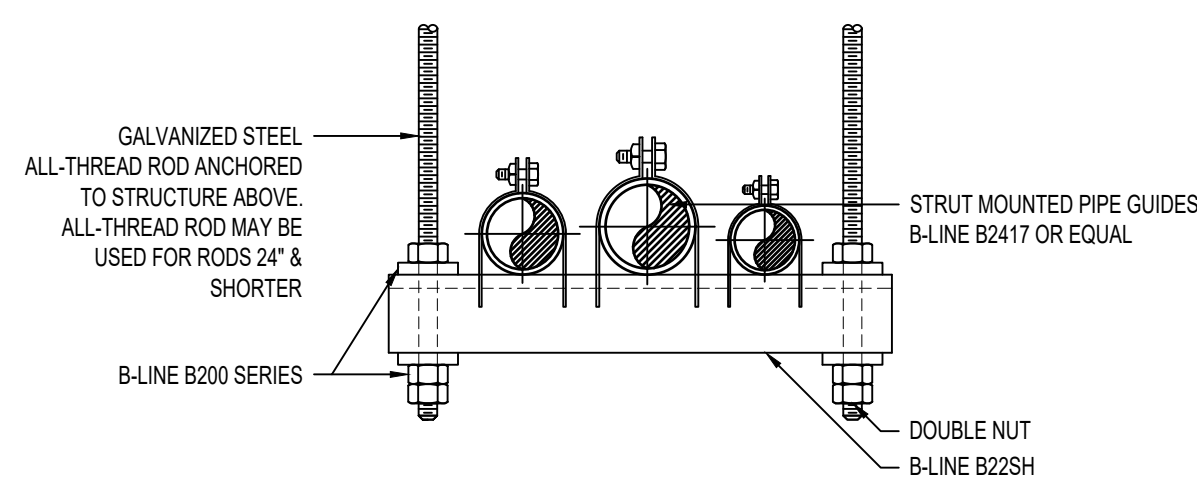
- NOTE:
1. PIPING BEYOND POOL WALL.
 2. ANGLE OF PIPING AND OF WALL PENETRATION DETERMINED BY DESIRED FLOW DIRECTION.

11 RIVER NOZZLE
AQ703 3/4" = 1'-0"



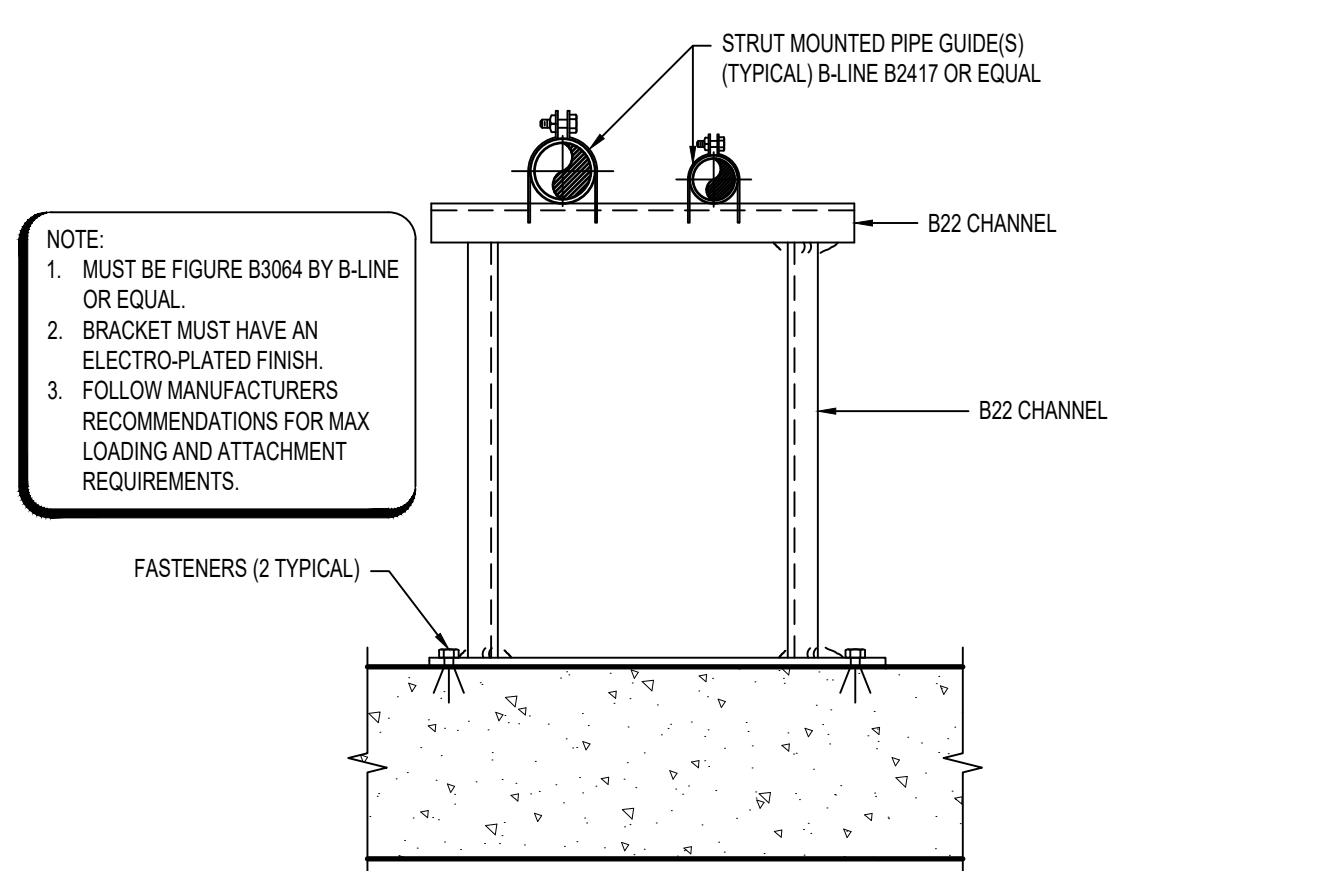
- NOTE:
1. BASIS OF DESIGN: COOPER B-LINE. ALTERNATE MANUFACTURER GRINELL OR APPROVED EQUAL.

5 SWIVEL RING PIPE HANGER
AQ703 1 1/2" = 1'-0"



- 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.

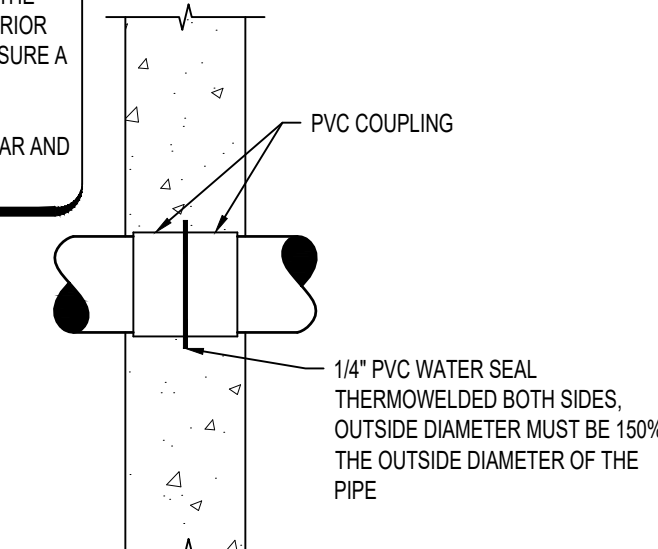
6 TRAPEZE HANGER
AQ703 3" = 1'-0"



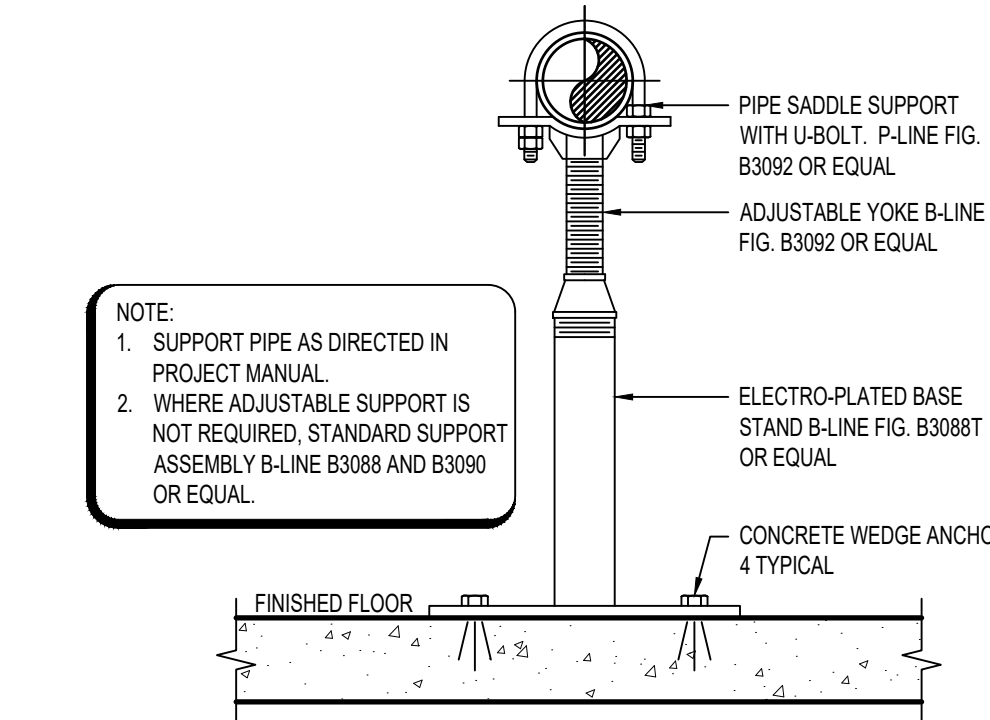
- NOTE:
1. MUST BE FIGURE B3064 BY B-LINE OR EQUAL.
 2. BRACKET MUST HAVE AN ELECTRO-PLATED FINISH.
 3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.

7 FLOOR MOUNTED ADJUSTABLE STRUT BRACKET
AQ703 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.

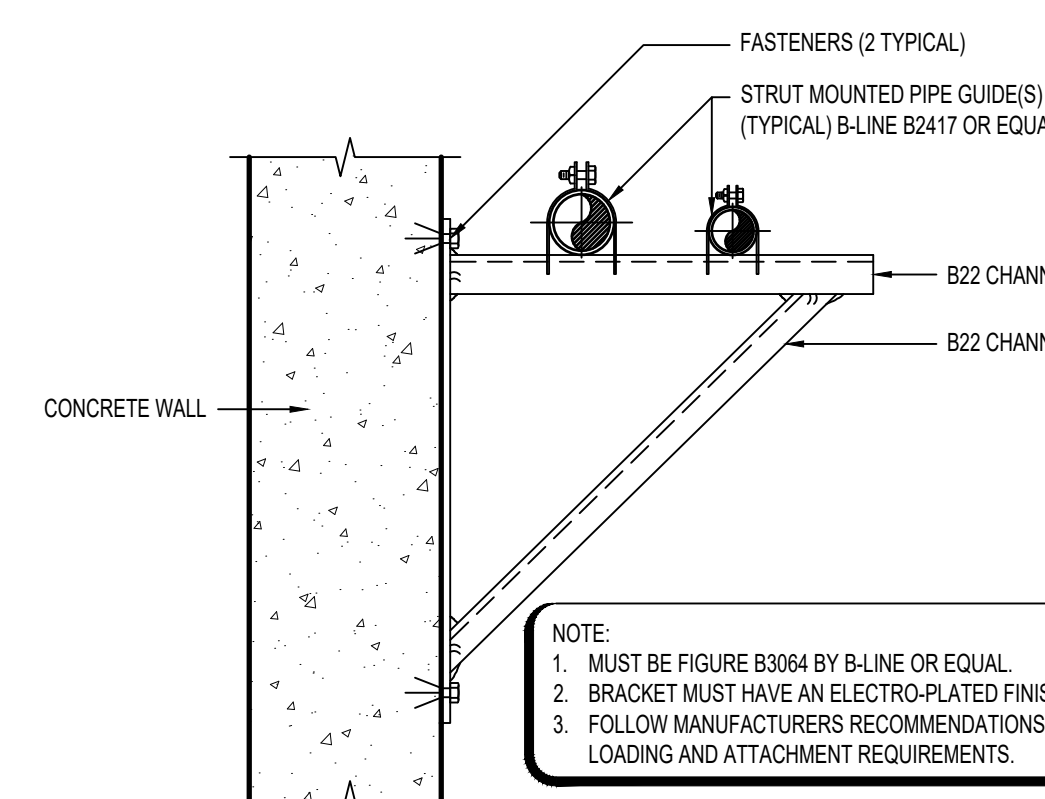


1 WATER SEAL
AQ703 1" = 1'-0"



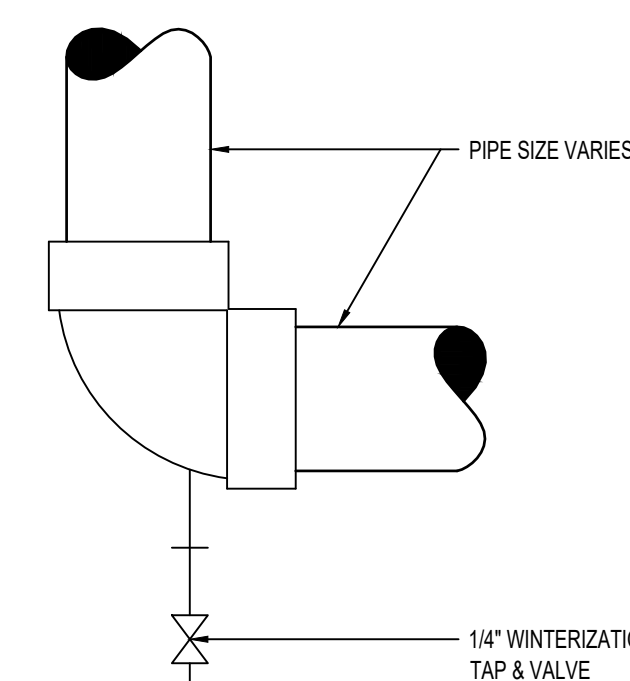
- NOTE:
1. SUPPORT PIPE AS DIRECTED IN PROJECT MANUAL.
 2. WHERE ADJUSTABLE SUPPORT IS NOT REQUIRED, STANDARD SUPPORT ASSEMBLY B-LINE B3088 AND B3090 OR EQUAL.

2 FLOOR MOUNTED PIPE SUPPORT
AQ703 3" = 1'-0"

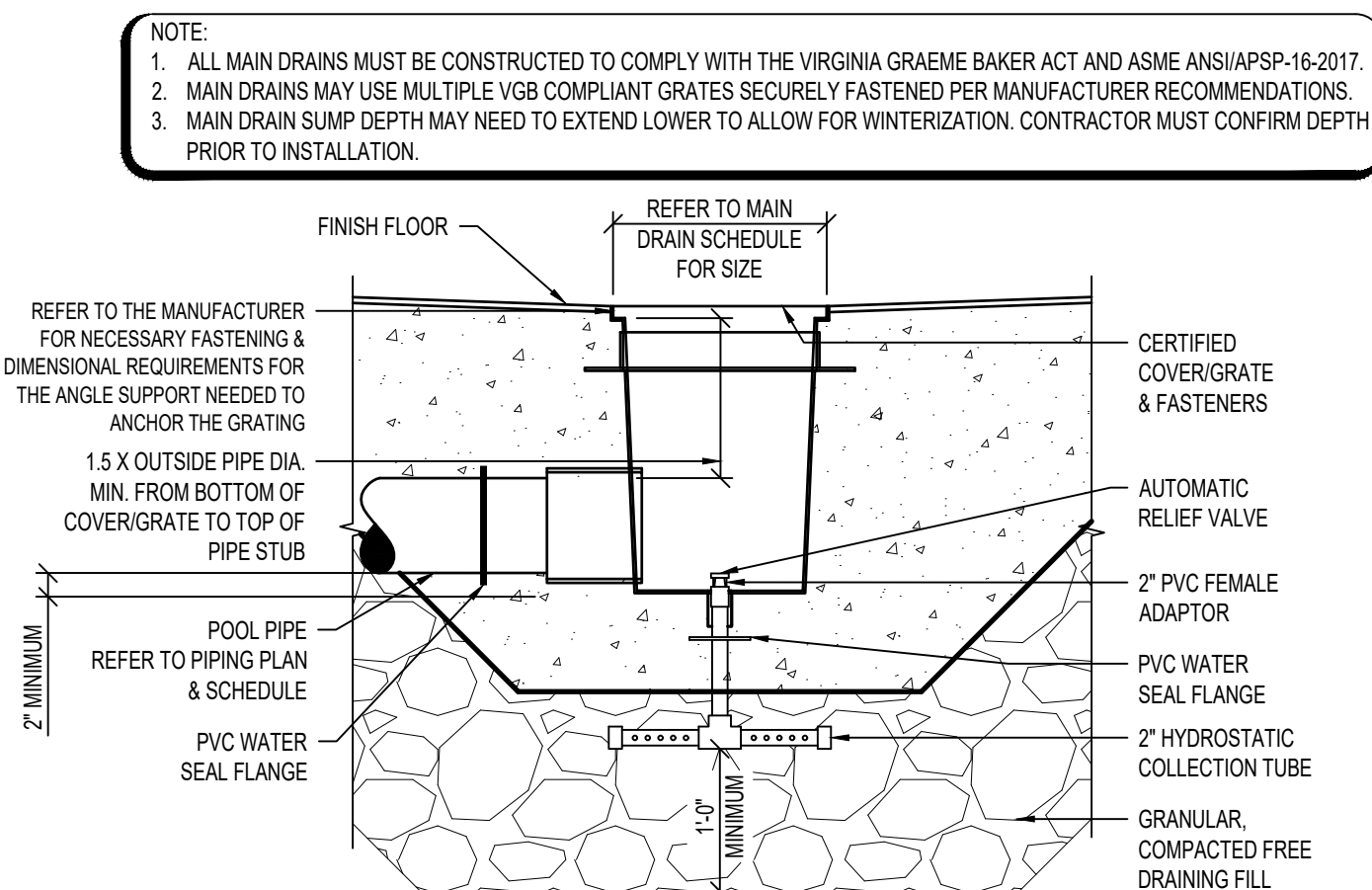


- NOTE:
1. MUST BE FIGURE B3064 BY B-LINE OR EQUAL.
 2. BRACKET MUST HAVE AN ELECTRO-PLATED FINISH.
 3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR MAX LOADING AND ATTACHMENT REQUIREMENTS.

3 ADJUSTABLE STRUT BRACKET
AQ703 3" = 1'-0"

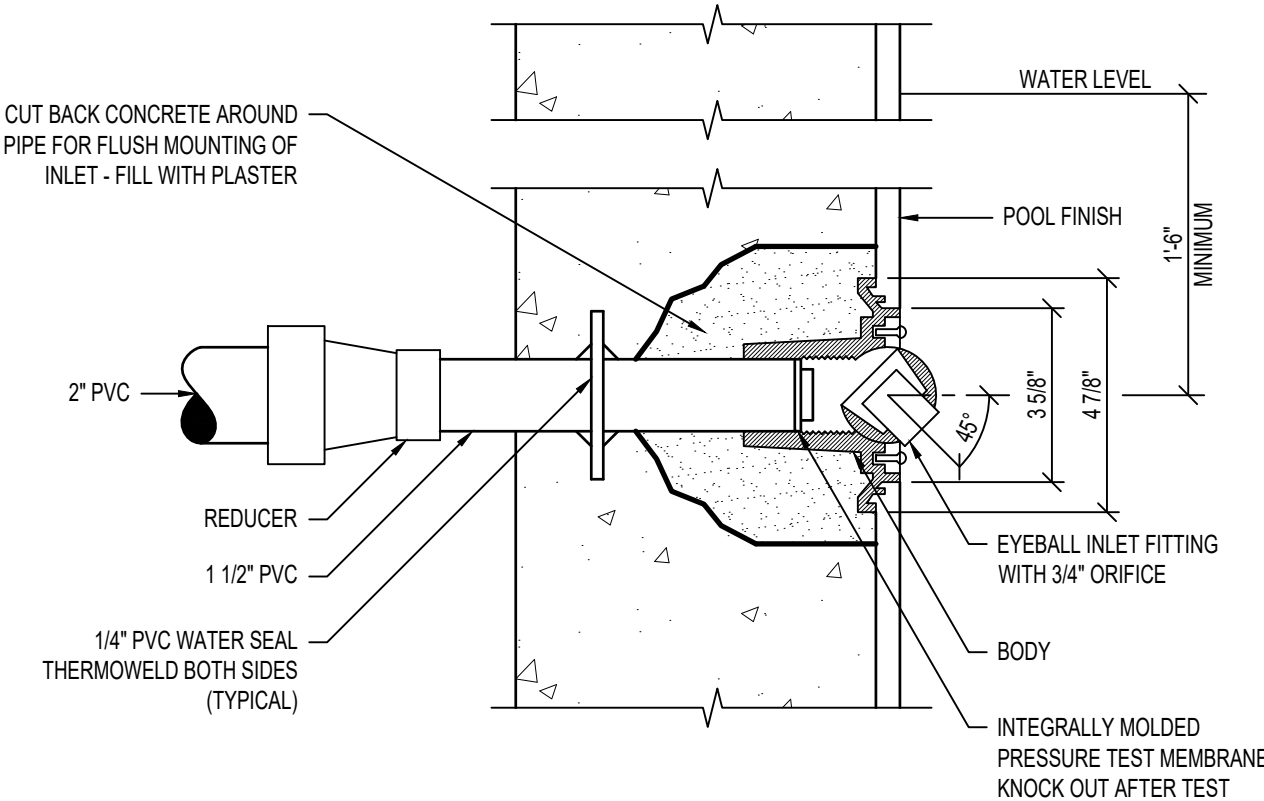


14 WINTERIZATION TAP & VALVE
AQ703 1 1/2" = 1'-0"

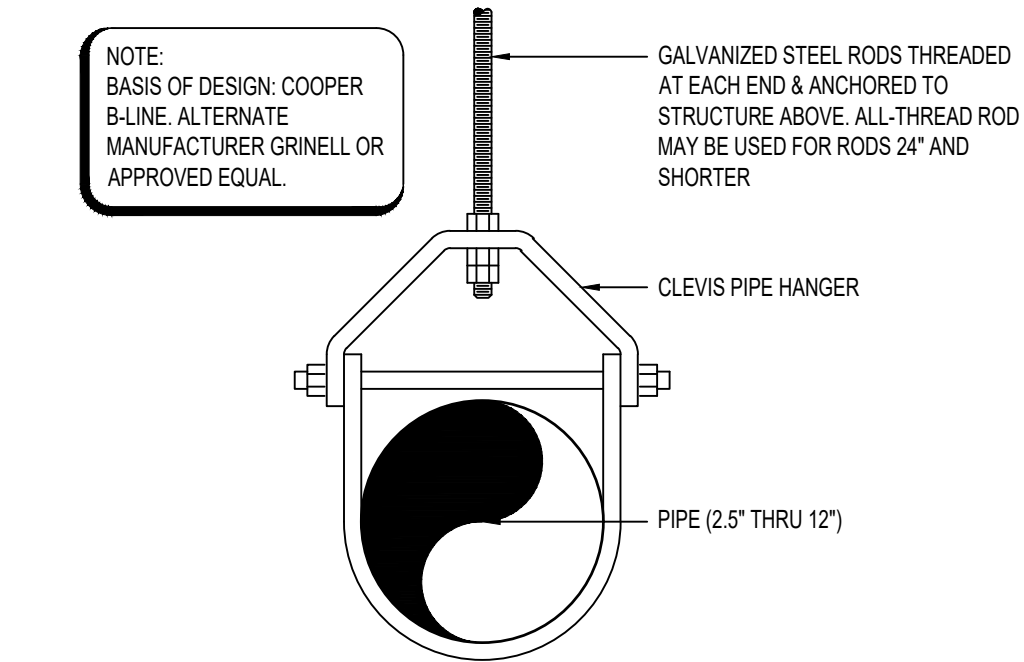


- NOTE:
1. ALL MAIN DRAINS MUST BE CONSTRUCTED TO COMPLY WITH THE VIRGINIA GRAEME BAKER ACT AND ASME ANSI/ASPP-16-2017.
 2. MAIN DRAINS MAY USE MULTIPLE VGB COMPLIANT GRATES SECURELY FASTENED PER MANUFACTURER'S RECOMMENDATIONS.
 3. MAIN DRAIN SUMP DEPTH MAY NEED TO EXTEND LOWER TO ALLOW FOR WINTERIZATION. CONTRACTOR MUST CONFIRM DEPTH PRIOR TO INSTALLATION.

12 MAIN DRAIN
AQ703 3/4" = 1'-0"

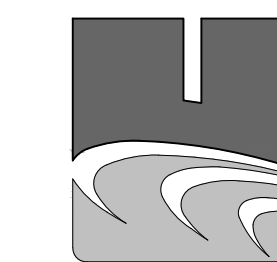


8 WALL INLET
AQ703 3" = 1'-0"



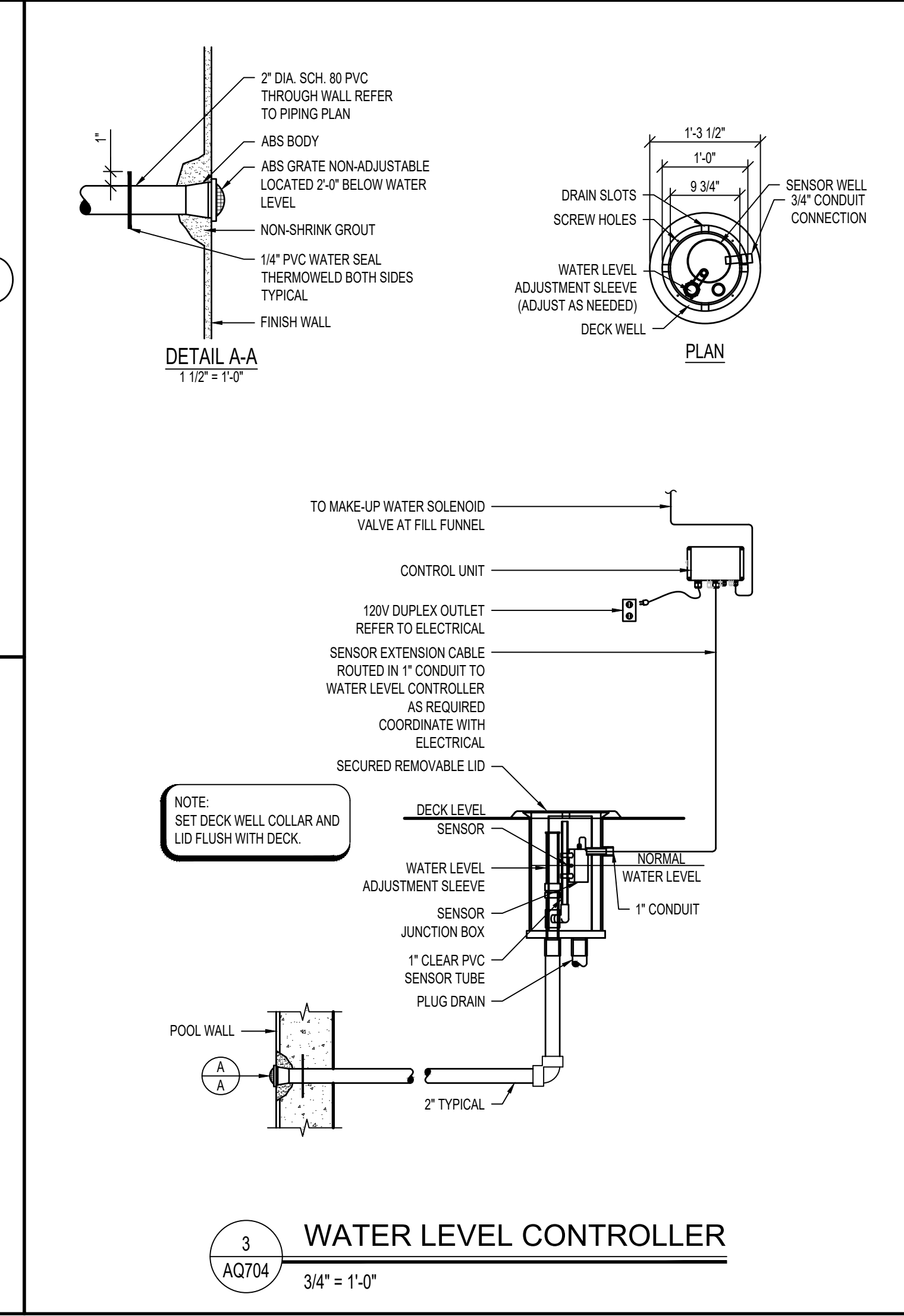
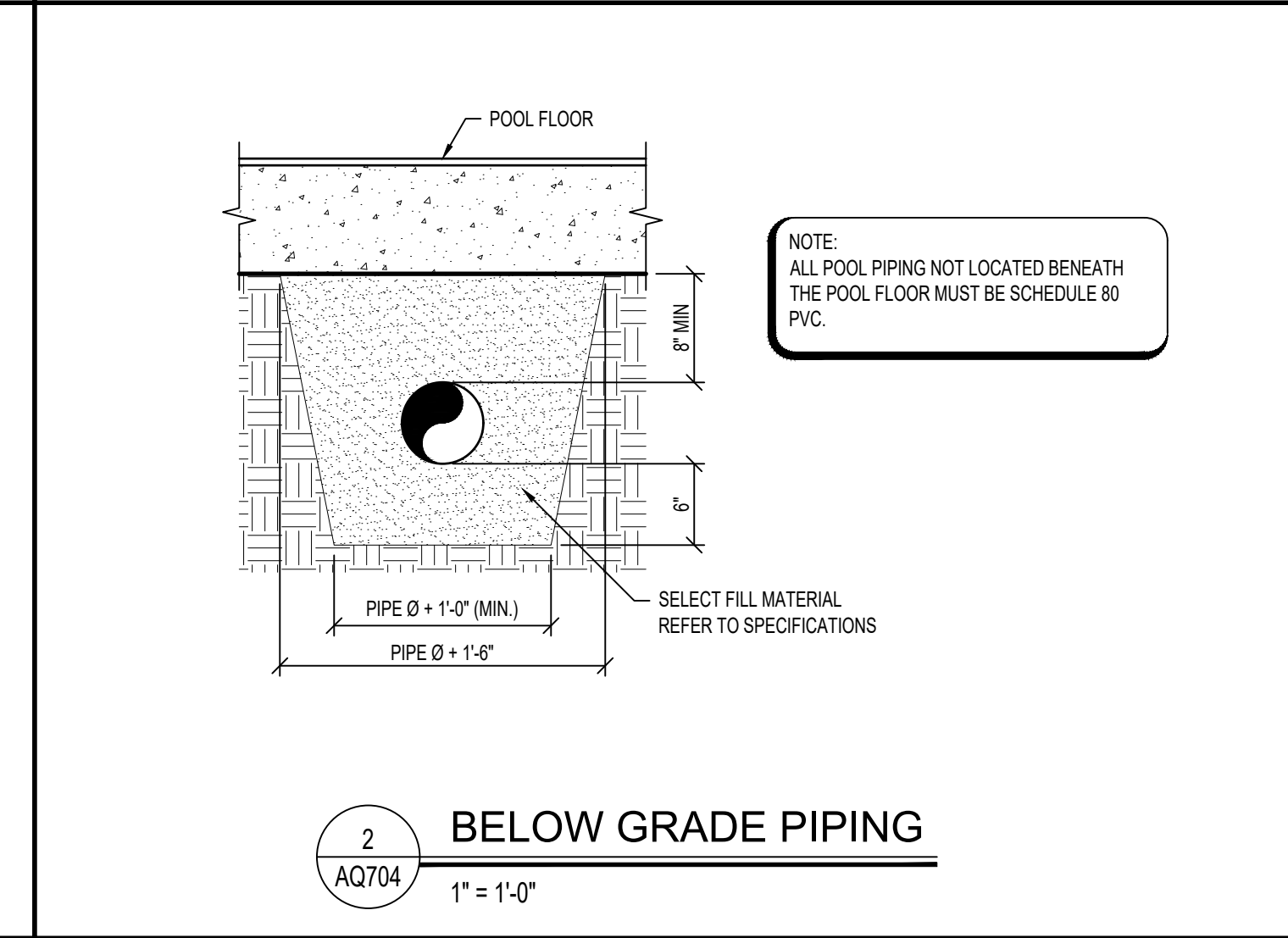
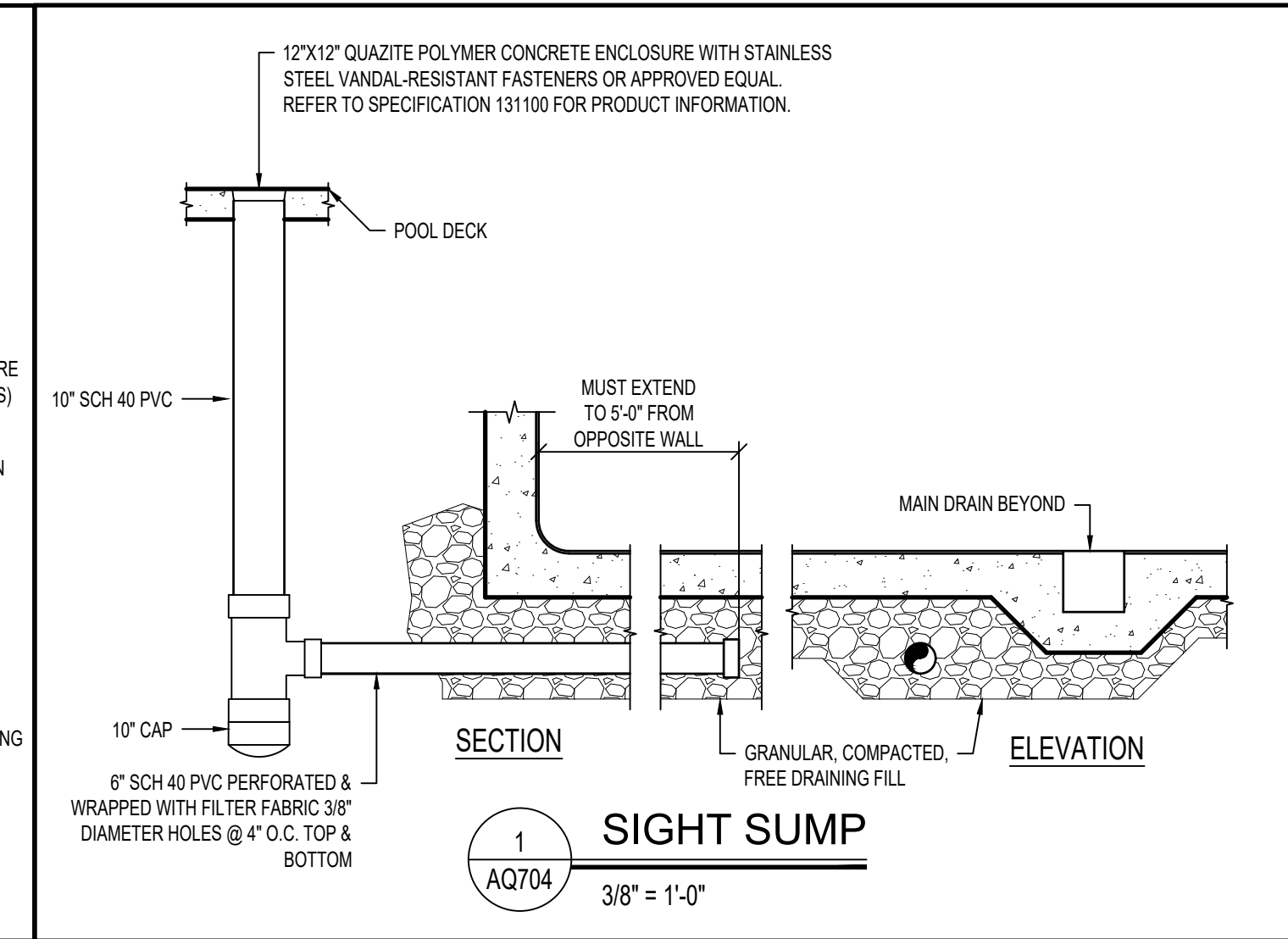
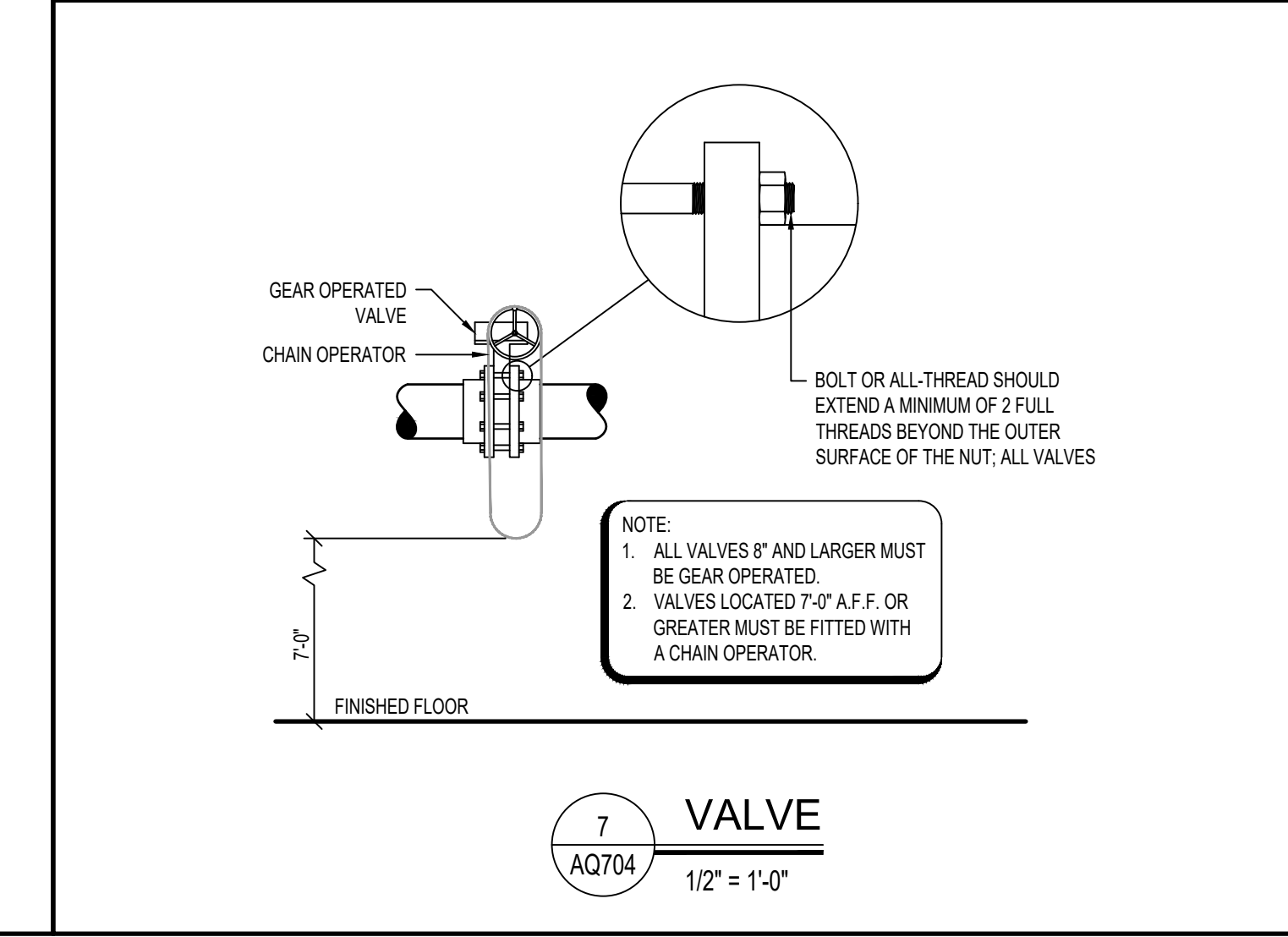
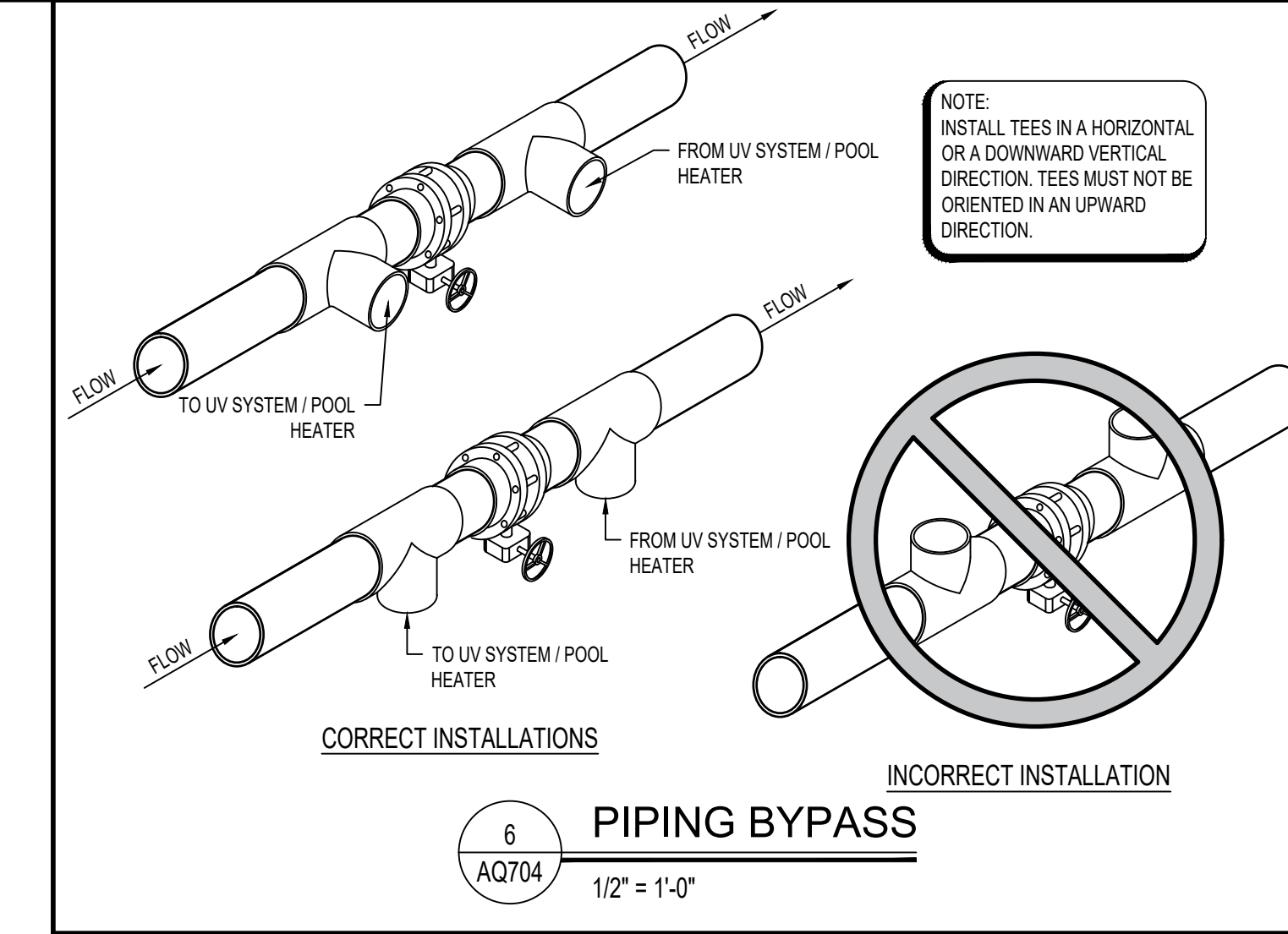
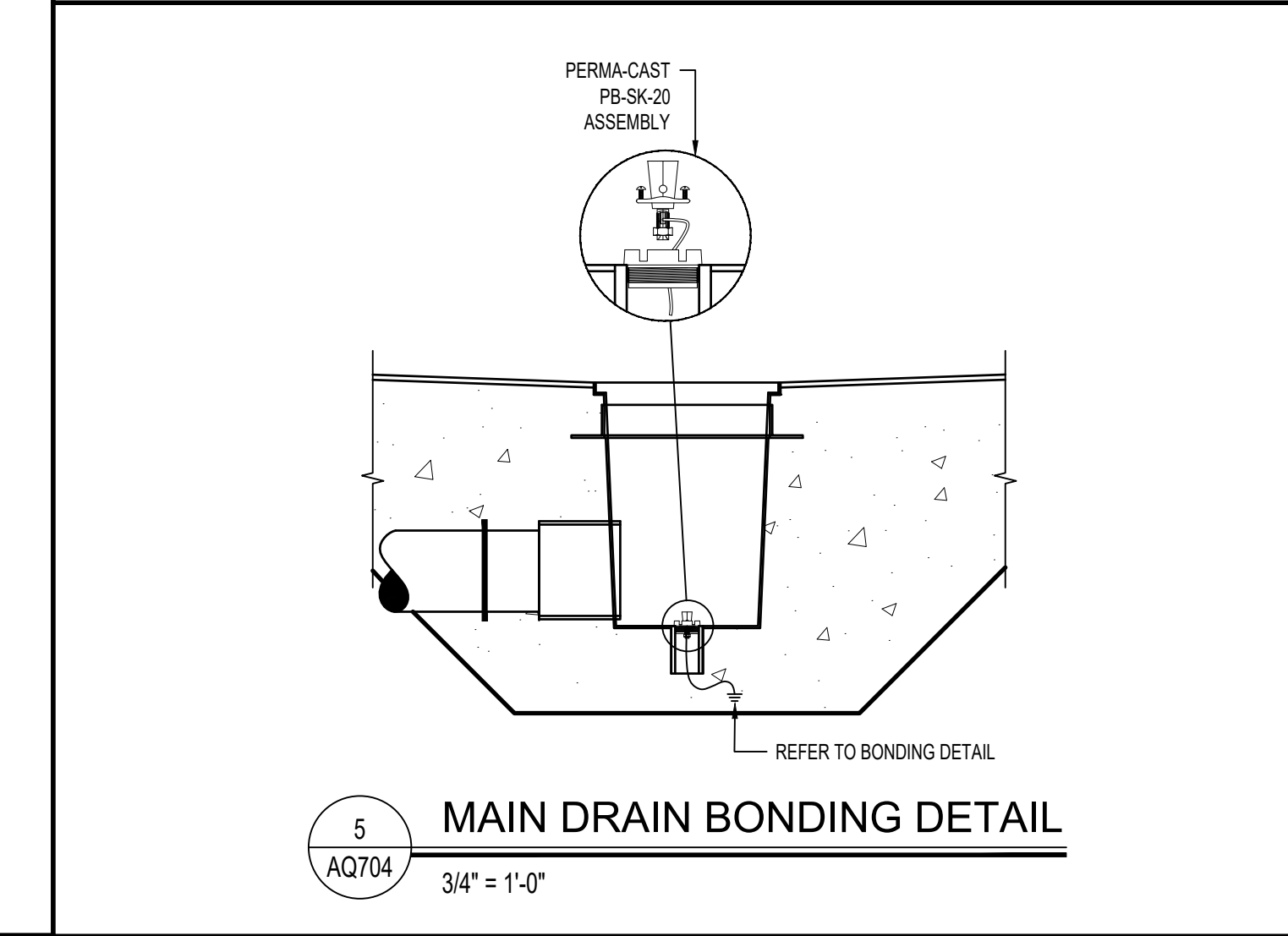
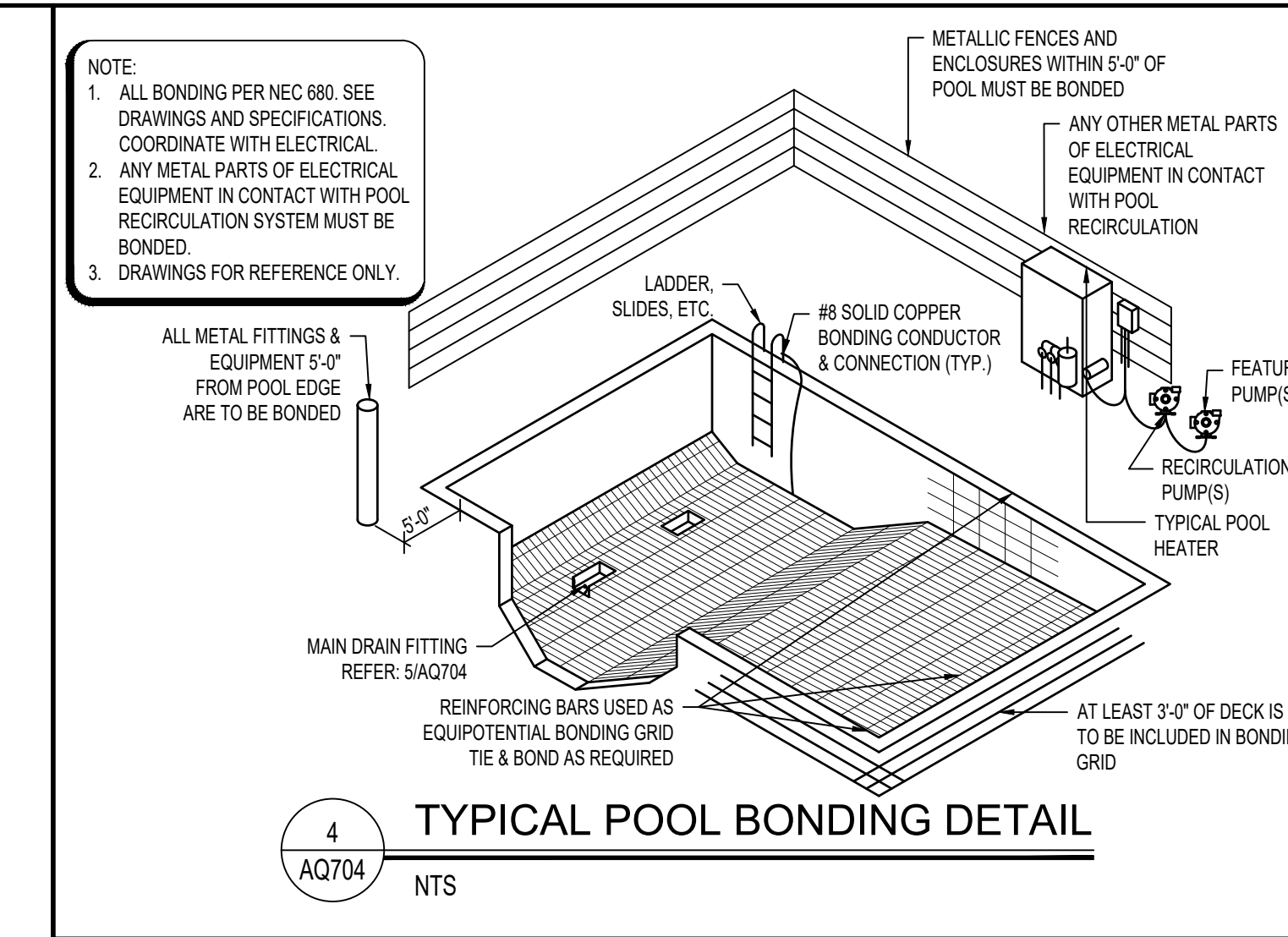
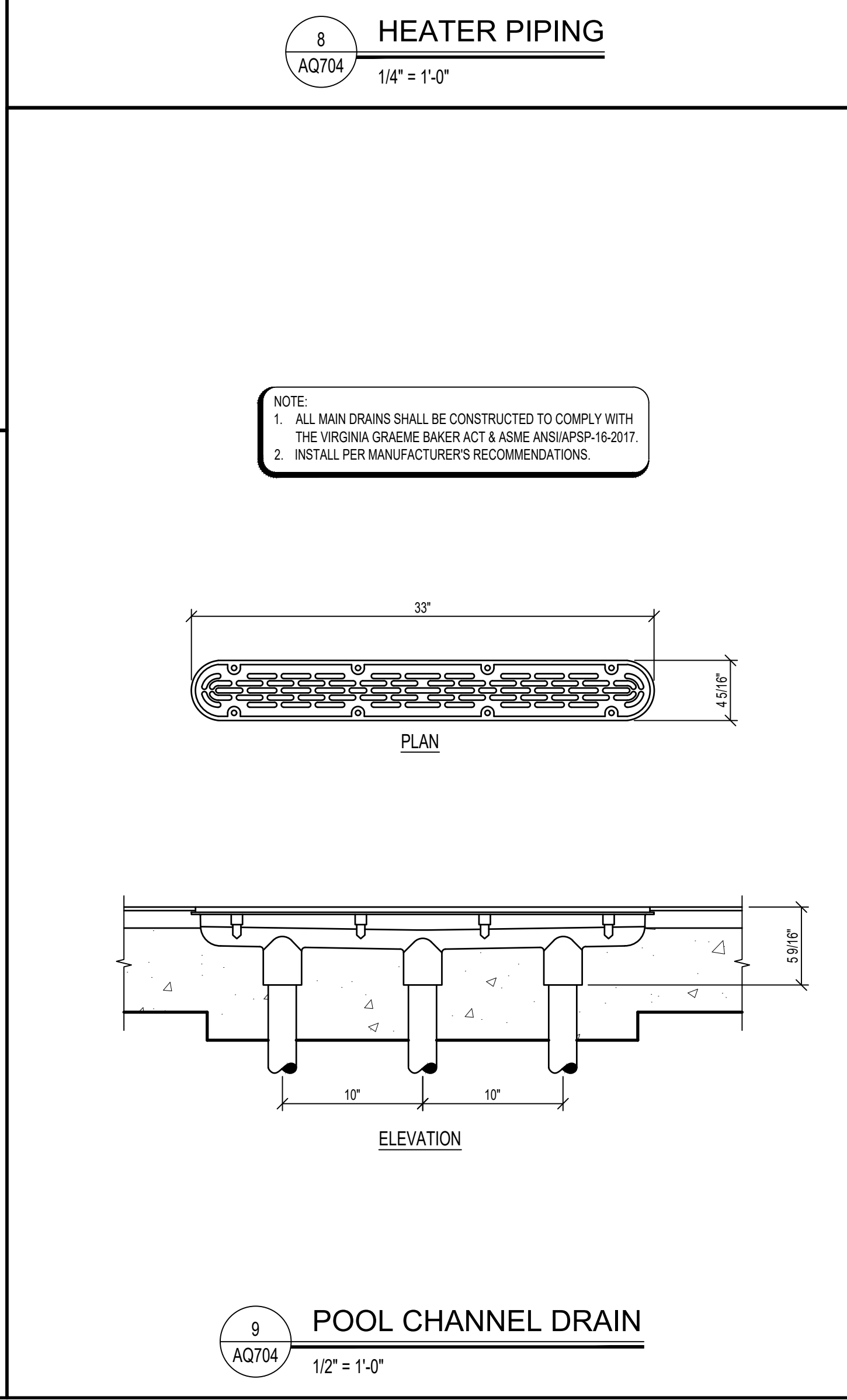
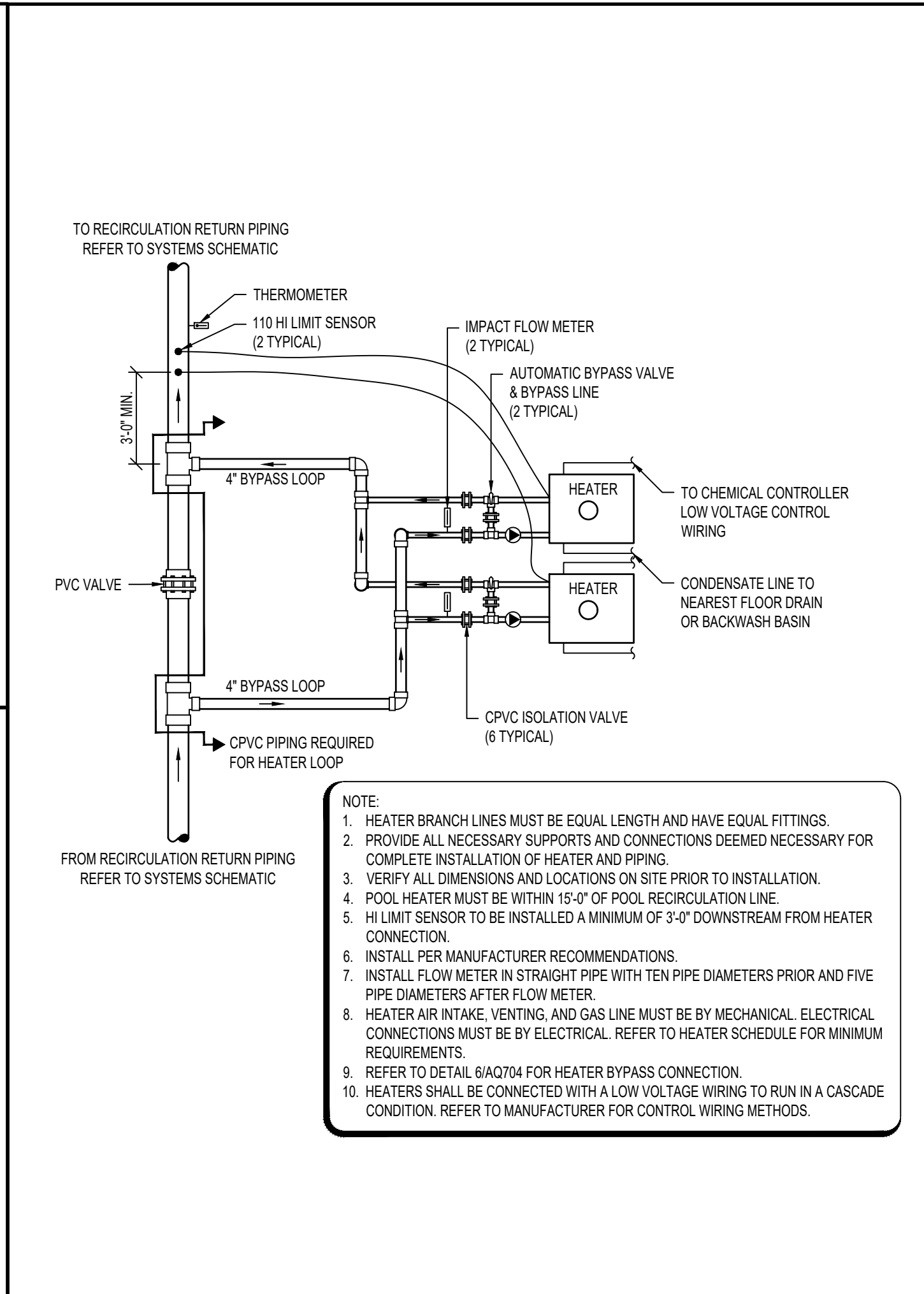
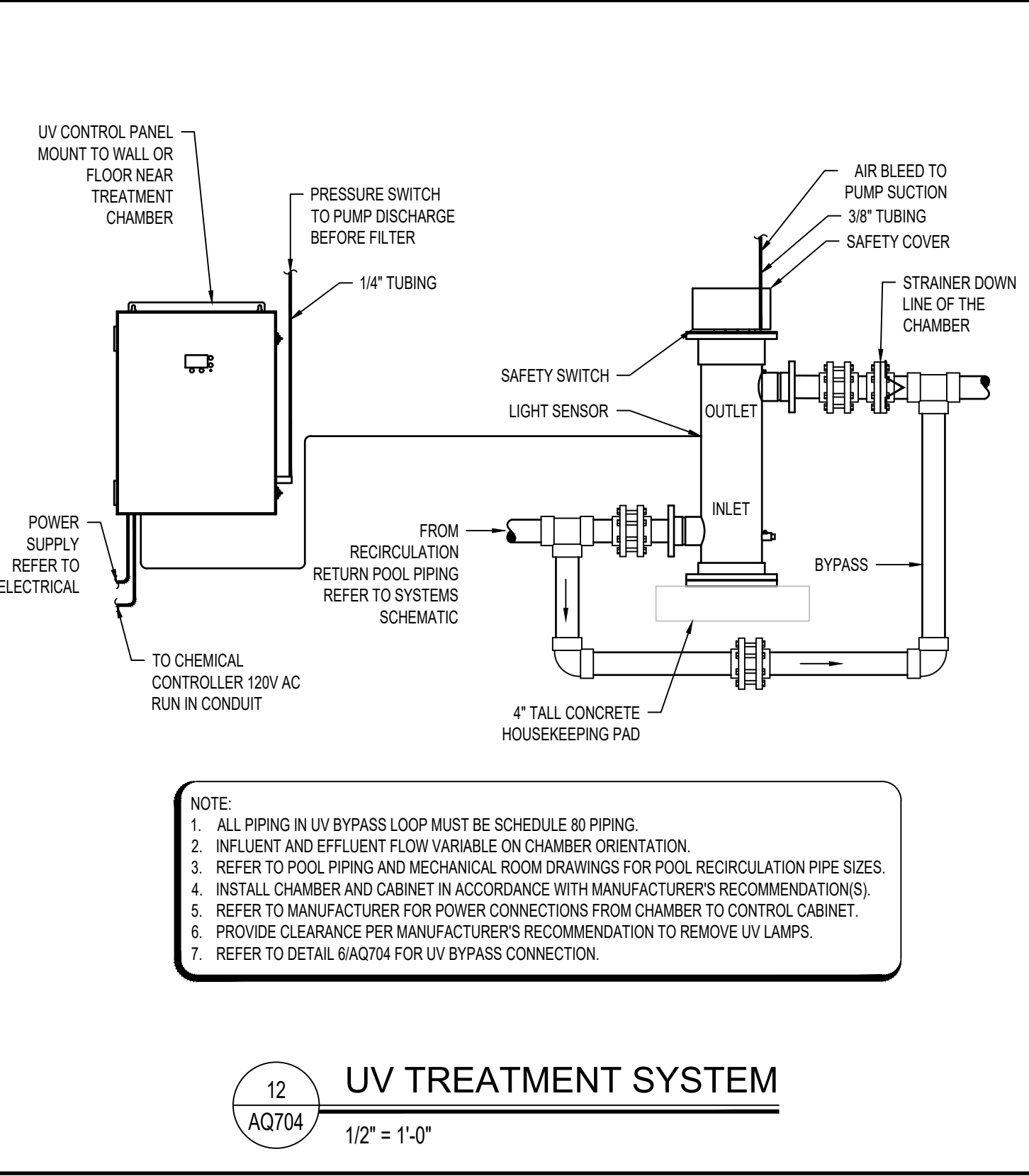
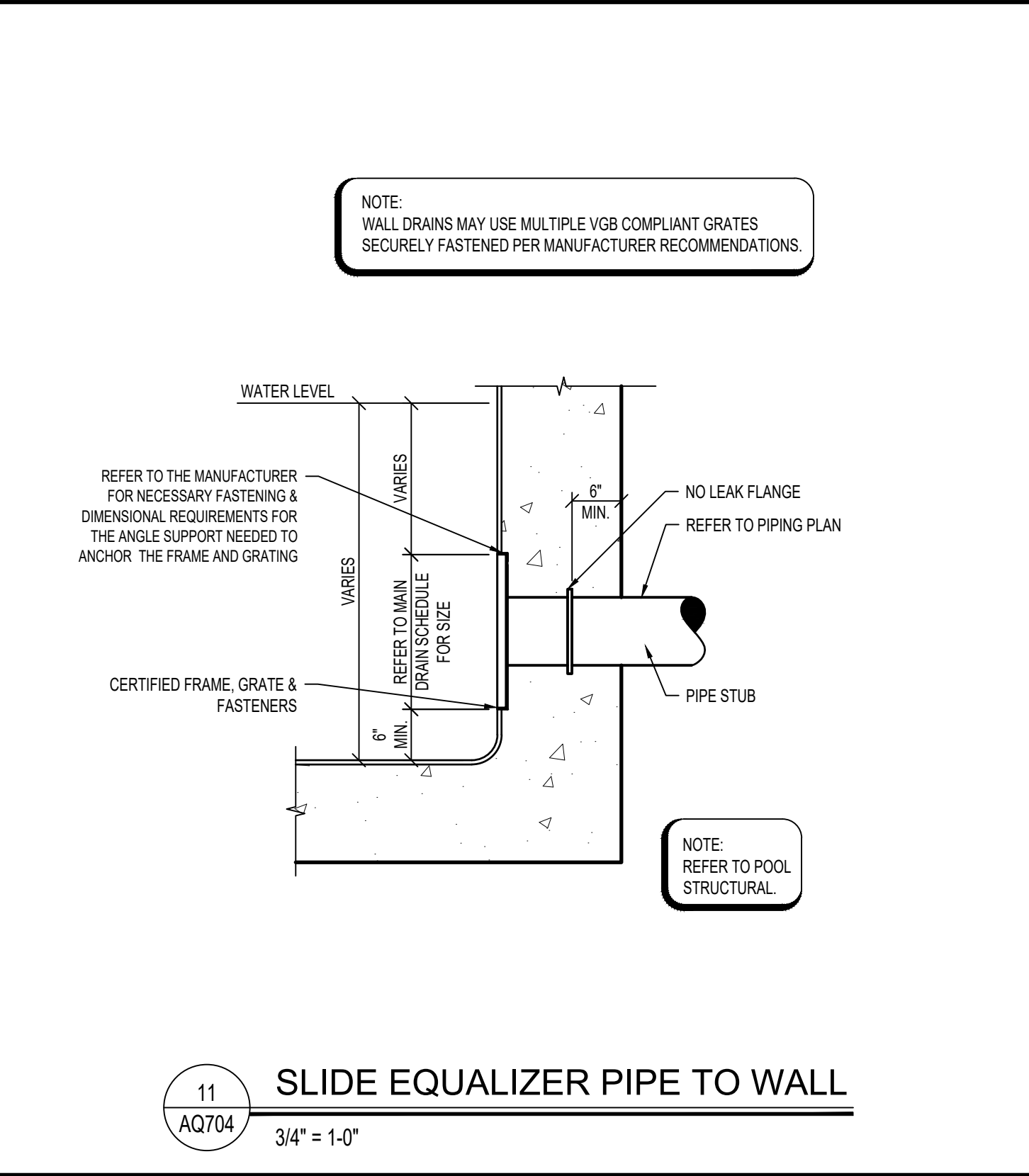
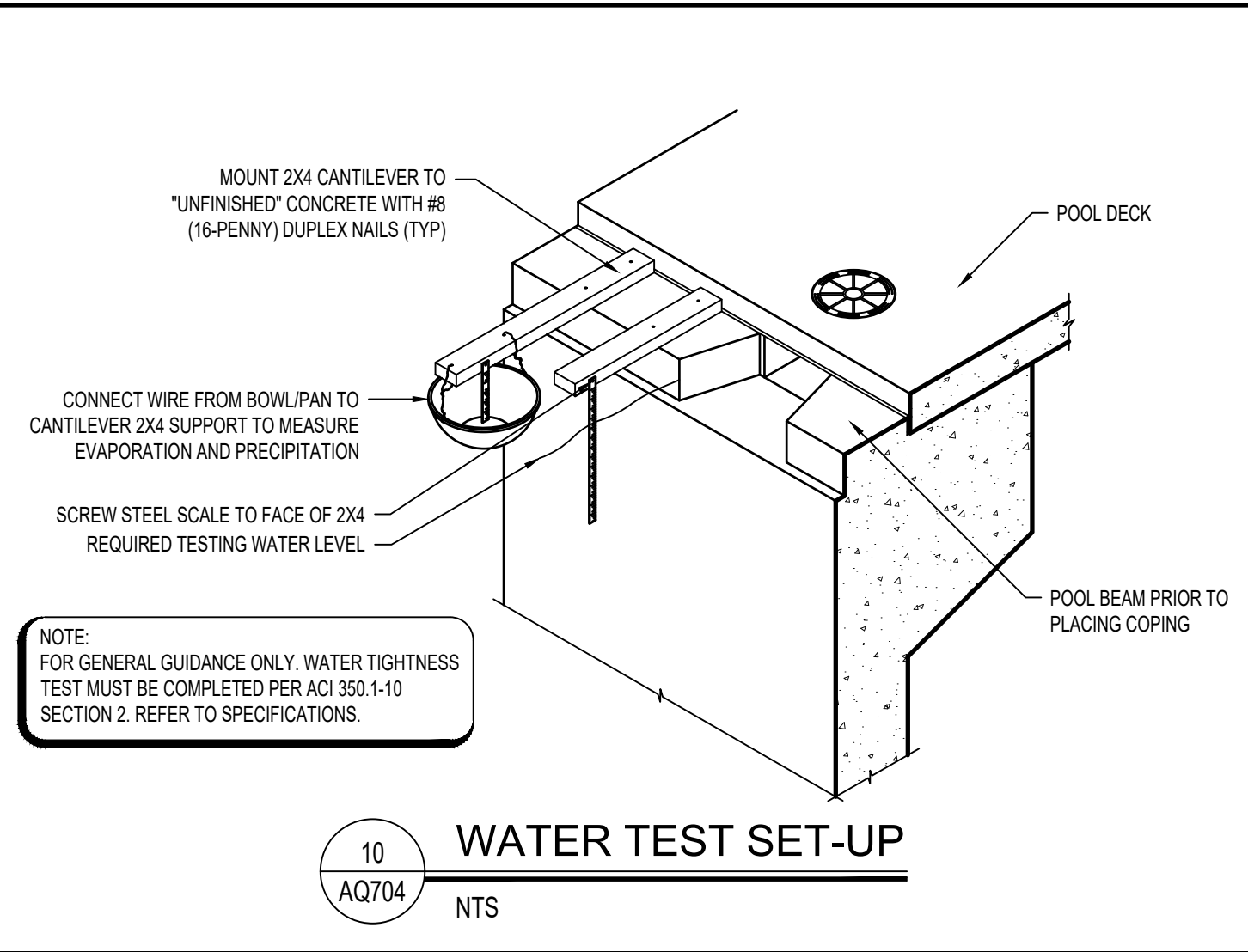
- NOTE:
1. BASIS OF DESIGN: COOPER B-LINE. ALTERNATE MANUFACTURER GRINELL OR APPROVED EQUAL.

4 CLEVIS PIPE HANGER
AQ703 1 1/2" = 1'-0"



| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |
| MARK | DESCRIPTION | DATE |





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CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY WILLISTON
STATE NORTH DAKOTA

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
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| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620
DRAWN BY: KAS
CHECKED BY: CCH

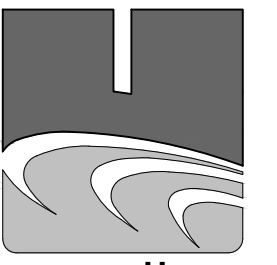
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REGISTERED PROFESSIONAL ENGINEER
CONNOR RILEY
PE-20728
DATE 05/19/2023
North Dakota

DRAWING TITLE
POOL MECHANICAL DETAILS

AQ704



CLIENT
WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| | | |
|------|------------------------|------------|
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PROJECT NO: **20224620**
DRAWN BY: **KAS**
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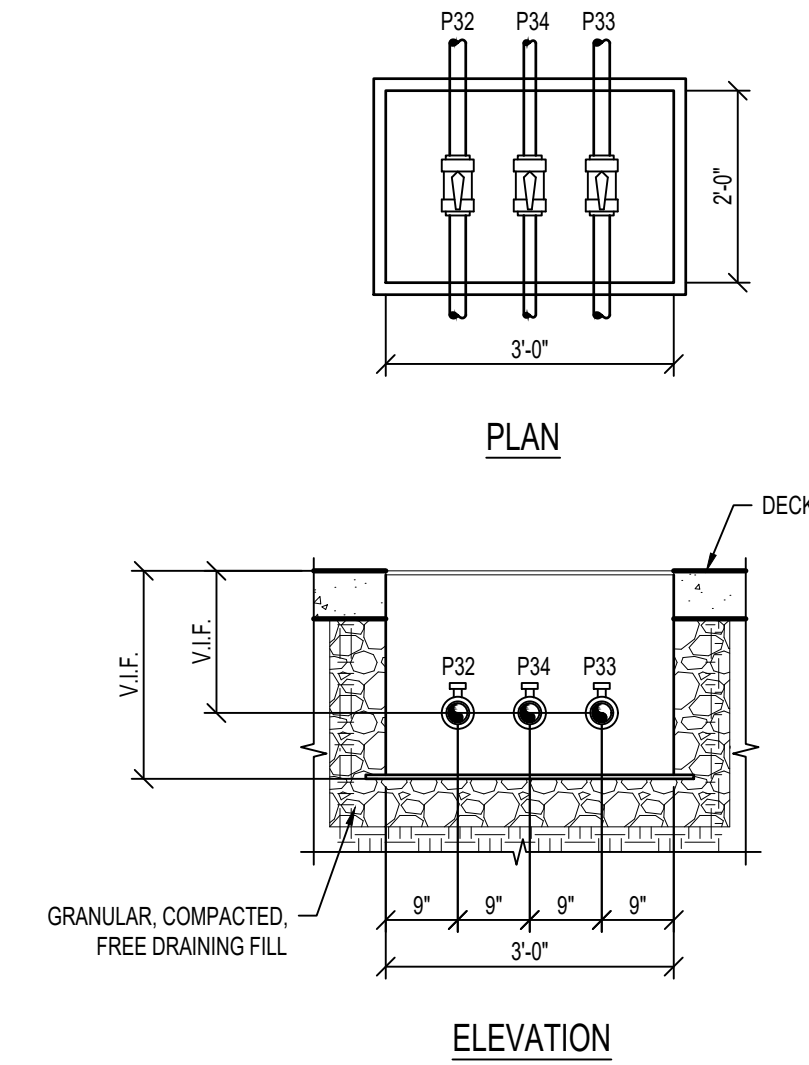
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DRAWING TITLE
POOL MECHANICAL DETAILS

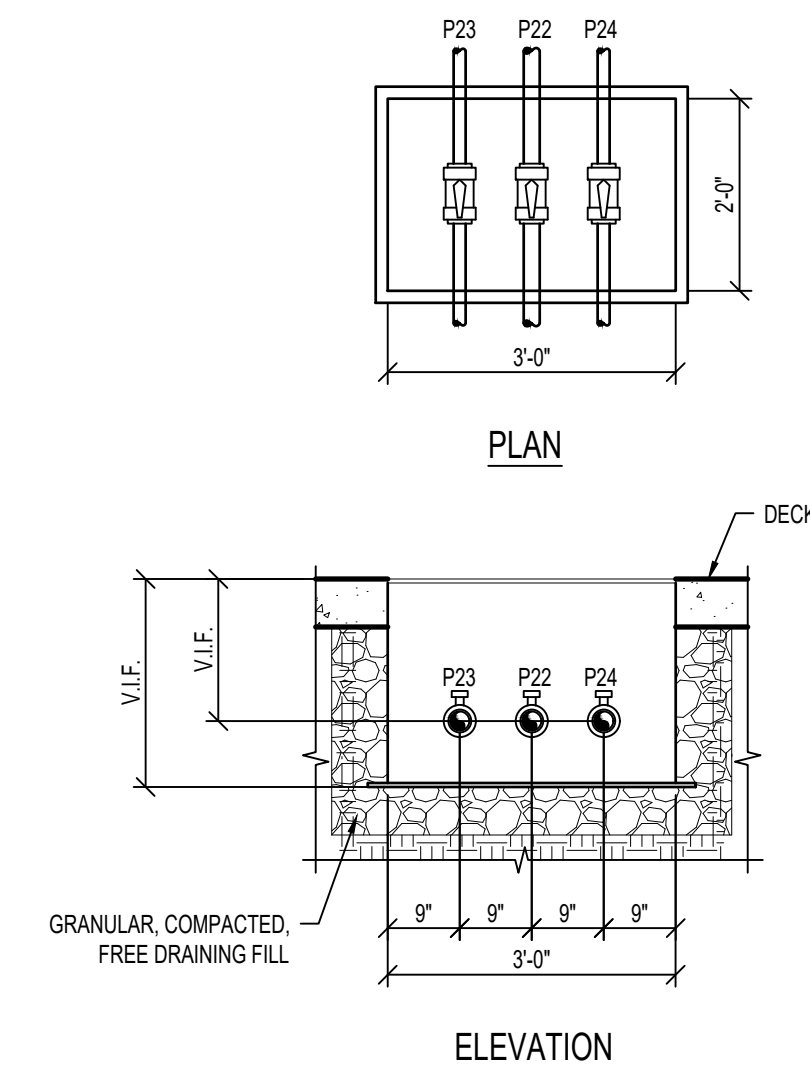
AQ705

NOTE:
1. REFER TO PIPE SCHEDULE FOR PIPE SIZES.
2. CONTRACTOR TO CONFIRM THAT ALL VALVES ARE ACCESSIBLE WITHIN BOX.
3. REFER TO SPECIFICATION FOR TYPE/STYLE OF VALVE OPERATOR REQUIRED.
4. REFER TO SPECIFICATION FOR STYLE OF QUAZITE ENCLOSURE.
5. QUAZITE VALVE BOXES ARE STACKABLE. CONTRACTOR TO PROVIDE AS MANY BOXES AS REQUIRED TO ENSURE PIPES ARE INSTALLED AT ELEVATIONS TO ALLOW FOR WINTERIZATION AND PROPER FUNCTIONALITY/FLOW.



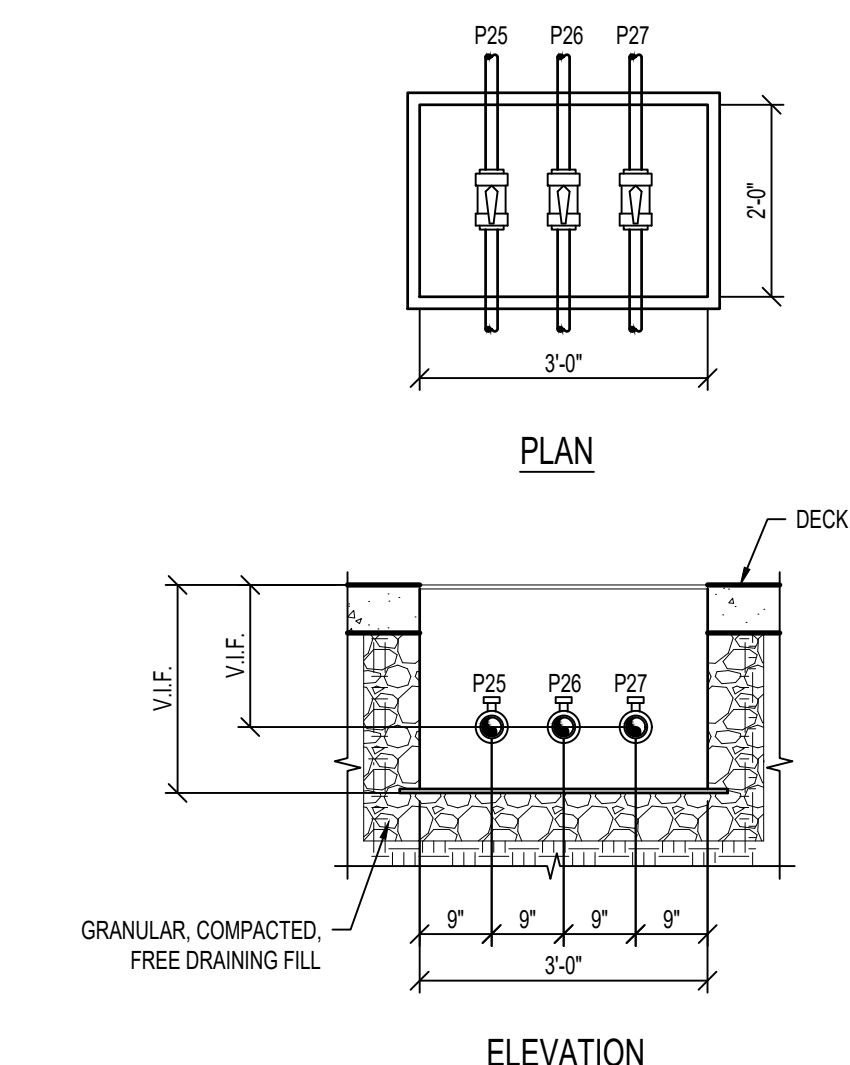
3 VALVE BOX 3
AQ705 1/2" = 1'-0"

NOTE:
1. REFER TO PIPE SCHEDULE FOR PIPE SIZES.
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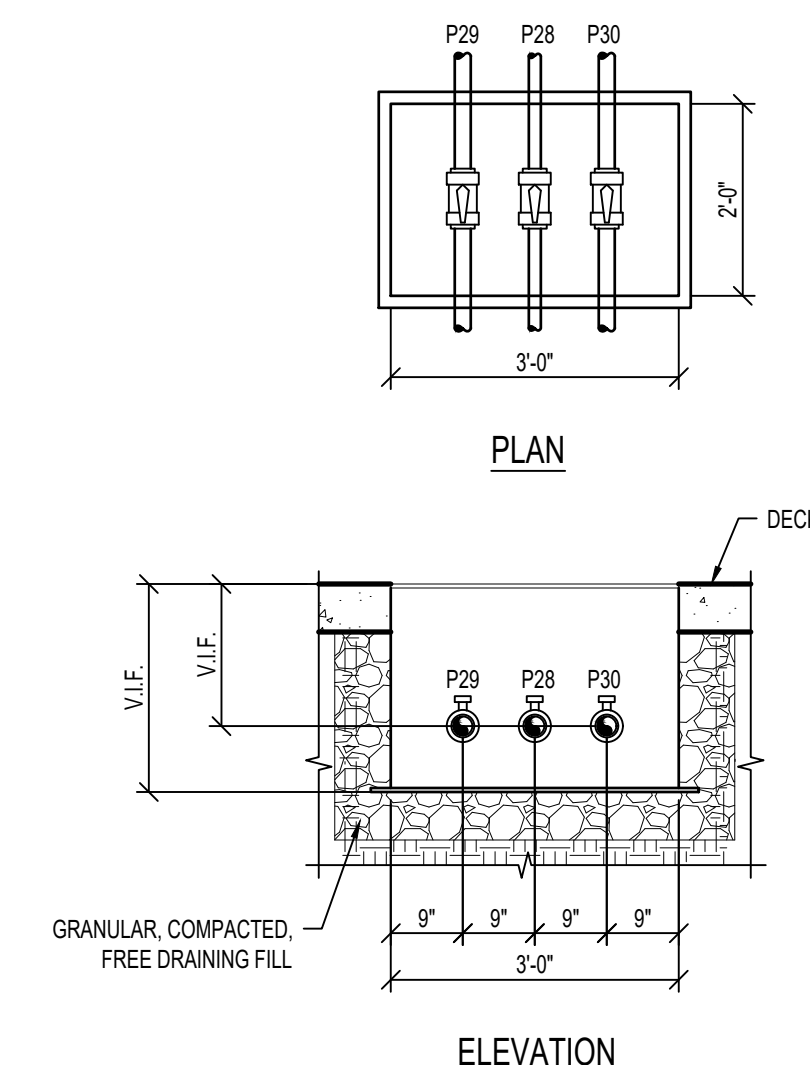
1 VALVE BOX 1
AQ705 1/2" = 1'-0"

NOTE:
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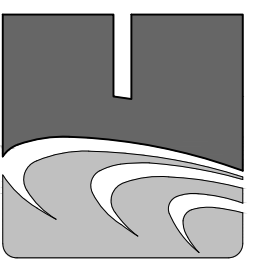


4 VALVE BOX 4
AQ705 1/2" = 1'-0"

NOTE:
1. REFER TO PIPE SCHEDULE FOR PIPE SIZES.
2. CONTRACTOR TO CONFIRM THAT ALL VALVES ARE ACCESSIBLE WITHIN BOX.
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4. REFER TO SPECIFICATION FOR STYLE OF QUAZITE ENCLOSURE.
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2 VALVE BOX 2
AQ705 1/2" = 1'-0"



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WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| MARK | DESCRIPTION | DATE |
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| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| SD | SCHEMATIC DESIGN | 12/15/2022 |

PROJECT NO: **20224620**
DRAWN BY: **KAS**
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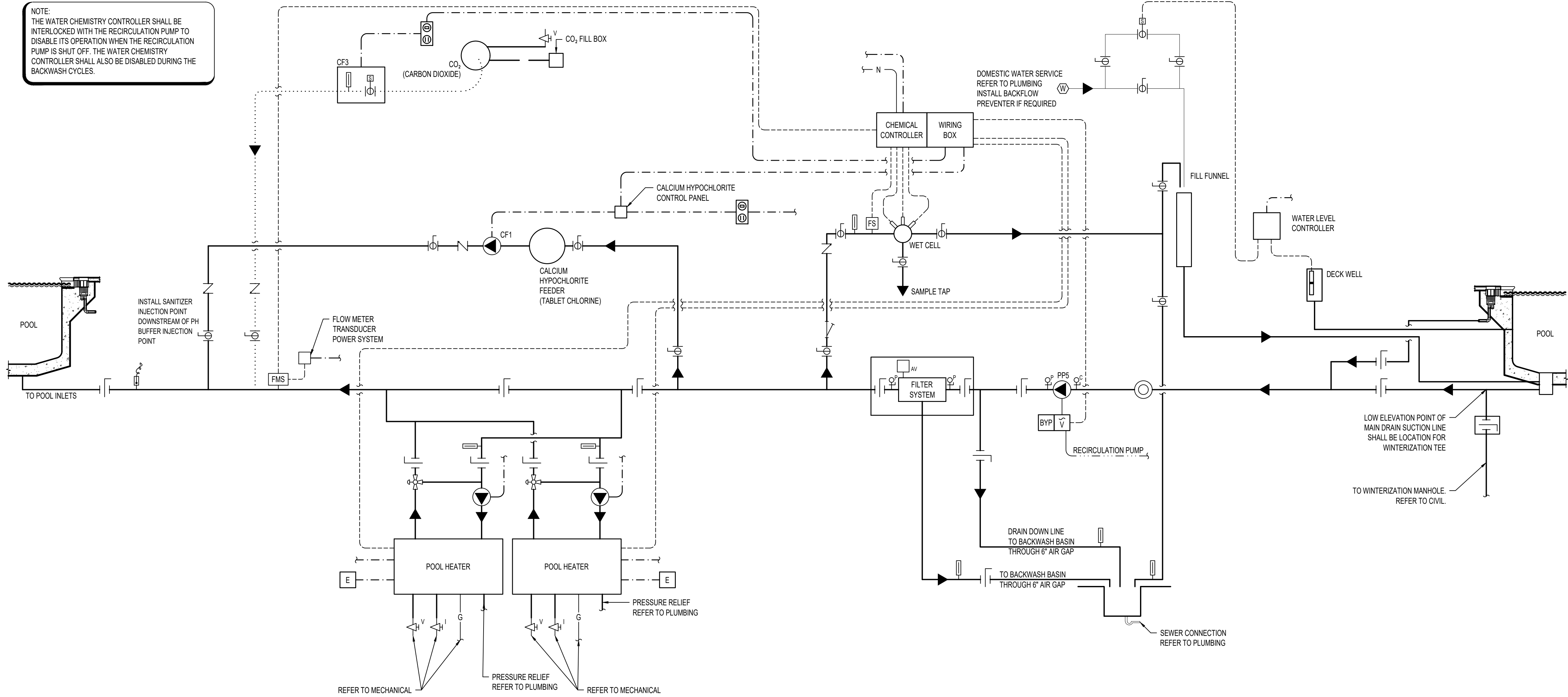
DRAWING TITLE
FITNESS POOL SYSTEMS SCHEMATIC

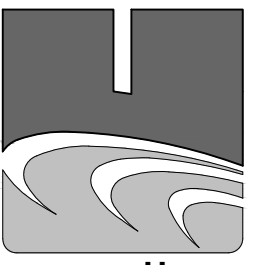
AQ800

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 |
| FMS | FLOW METER SENSOR |
| FS | FLOW SWITCH |
| ⊙ | IMPACT FLOW METER |
| ⊙ | VENTURI FLOW METER |
| ⊙ | WATER METER |
| AV | AUTOMATIC AIR VENT |
| V | AIR VENT |
| I | AIR INLET |
| P | PRESSURE GAUGE AND COCK |
| C | COMPOUND GAUGE AND COCK |
| ⊙ | DIGITAL TEMP SENSOR |
| ⊙ | THERMOMETER |
| A | PNEUMATIC ACTUATOR |
| ⊙ | FLOW CONTROL VALVE |
| ⊙ | COMBINATION SWITCH/RECEPTACLE |
| ⊙ | AUTOMATIC PUMP SHUT-OFF DEVICE |
| V | VARIABLE FREQUENCY DRIVE |
| R | REMOTE START/STOP |
| E | EMERGENCY STOP |
| BYP | VARIABLE FREQUENCY DRIVE BYPASS |
| MS | CONTACT MOTOR SELECTOR |
| ⊙ | 15 MINUTE TIMER SWITCH |
| --- | LOW VOLTAGE CONTROL |
| — | WATER LINE |
| - - - | 1 PHASE POWER |
| - · - · - | 3 PHASE POWER |
| ⋯ | CO ₂ LINE |
| — N | NETWORK LINE BY ELECTRICAL |
| — G | GAS LINE |

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





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WILLISTON COMMUNITY BUILDERS

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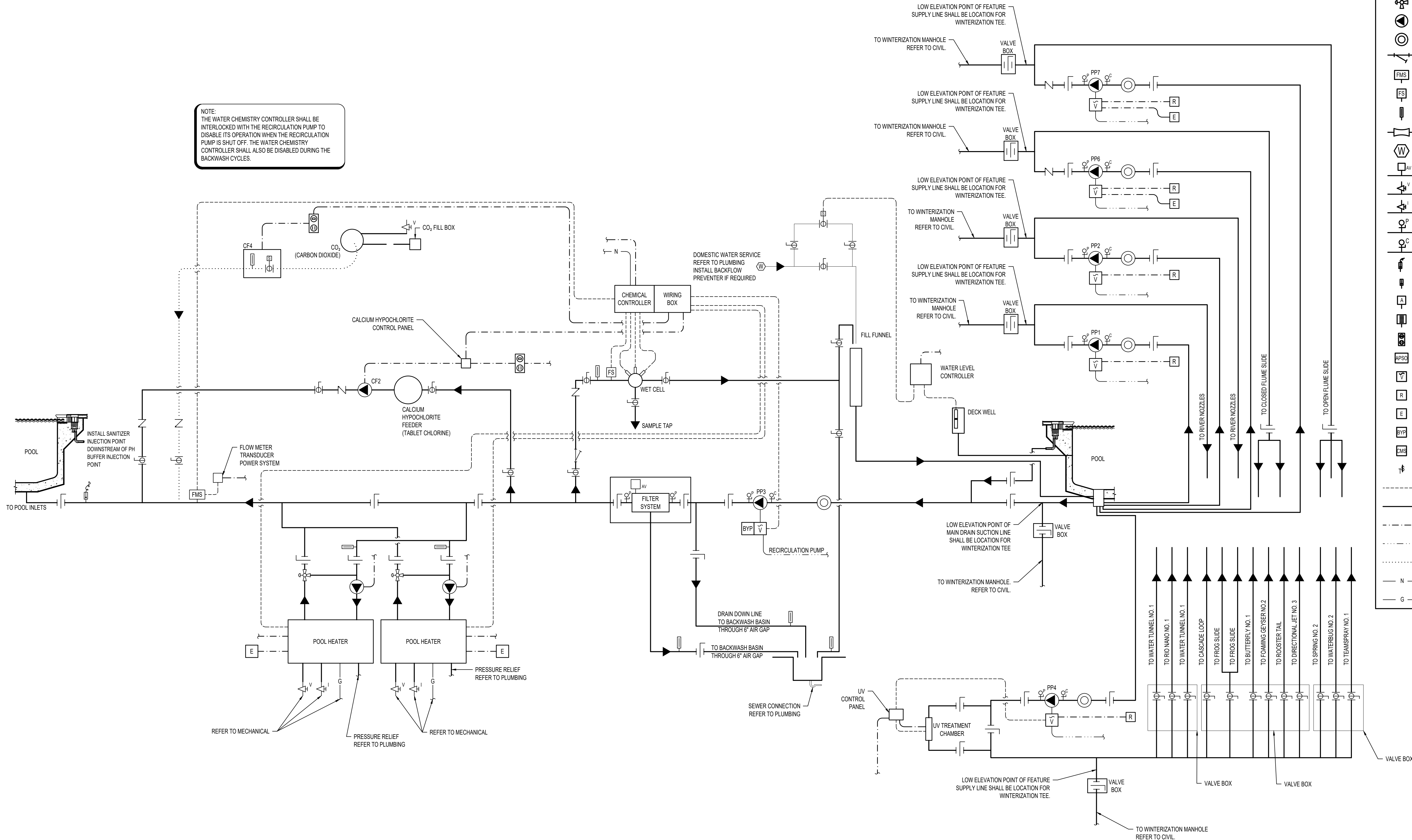


DRAWING TITLE
LEISURE POOL SYSTEMS SCHEMATIC

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 |
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| | AIR VENT |
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| | VARIABLE FREQUENCY DRIVE BYPASS |
| | CONTACT MOTOR SELECTOR |
| | 15 MINUTE TIMER SWITCH |
| | LOW VOLTAGE CONTROL |
| | WATER LINE |
| | 1 PHASE POWER |
| | 3 PHASE POWER |
| | CO ₂ LINE |
| | NETWORK LINE BY ELECTRICAL |
| | GAS LINE |

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

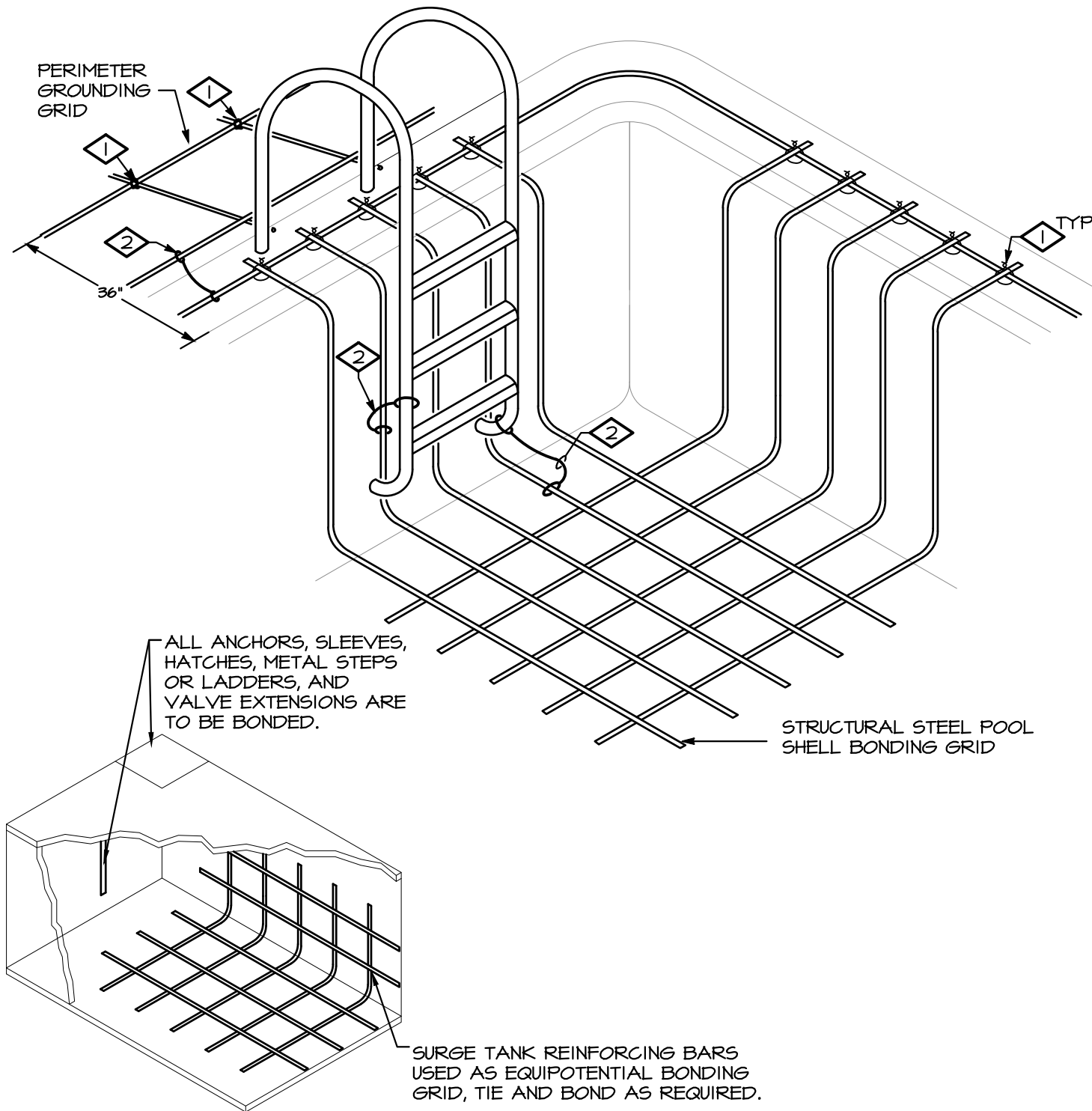


ELECTRICAL REQUIREMENTS FOR POOL BONDING

- ALL GROUNDING AND BONDING OF ALL METALLIC PARTS ASSOCIATED WITH THE POOL ARE TO BE IN COMPLIANCE WITH NEC SECTION 680.
- STRUCTURAL REINFORCING STEEL TERMINOLOGY IN NOTES BELOW REFERS TO REBAR OR WIREMESH INSTALLATIONS.
- BONDING TO CONDUCTIVE POOL SHELLS SHALL BE ACCOMPLISHED WITH REINFORCING STEEL BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS A COMMON BONDING GRID FOR ALL PARTS REQUIRED TO BE BONDED TOGETHER. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A COPPER CONDUCTOR GRID SYSTEM SHALL BE INSTALLED, WITH MINIMUM #8 AWG BARE SOLID CONDUCTORS BONDED AT ALL CROSS POINTS CONFORM TO THE CONTOUR OF THE POOL, BE ARRANGED IN A 12" X 12" GRID PATTERN, AND BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 6" FROM THE OUTER CONTOUR OF THE POOL.
- BONDING TO PERIMETER SURFACES SHALL BE ACCOMPLISHED WITH REINFORCING STEEL REBAR BONDED WITH STEEL TIE WIRES, OR EQUAL, WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A SINGLE #8 AWG COPPER, BARE, SOLID CONDUCTOR SHALL BE INSTALLED 18" TO 24" WITHIN THE INSIDE WALL OF THE POOL, AND WITHIN 4" TO 6" UNDER THE SURFACE.
- THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID. BONDING LUGS SHALL BE SUPPLIED BY POOL CONTRACTOR.
 - ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPING STONES, DECK, STARTING BLOCK STRUCTURES AND/OR ATTACHMENT POINTS.
 - ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
 - METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM INCLUDING PUMPS, FILTERS, AND HEATERS LOCATED IN POOL EQUIPMENT ROOM.
 - METAL PARTS ASSOCIATED WITH POOL COVERS.
 - 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.
 - METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
 - METAL PARTS ASSOCIATED WITH THE POOL SLIDE TOWER, SLIDE STAIRS, AND ASSOCIATED SLIDE STRUCTURE.
- 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.
- BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED. E.G. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
- SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
- THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
- ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
- ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.

DETAIL NOTES

- BOND ALL STRUCTURAL REINFORCING STEEL TOGETHER WITH STEEL TIE WIRES AT ALL STEEL CROSSING POINTS.
- CONNECT STRUCTURAL REINFORCING STEEL GRID WITHIN POOL AND/OR PERIMETER POOL DECK TO METAL FITTINGS, ELECTRICAL EQUIPMENT, AND METAL WIRING METHODS AND EQUIPMENT IN ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRIC CODE. CONNECT WITH MINIMUM #8 SOLID AWG BARE COPPER. REFER TO GENERAL NOTE #3 ABOVE FOR CONNECTION REQUIREMENTS.



1 POOL BONDING DETAIL

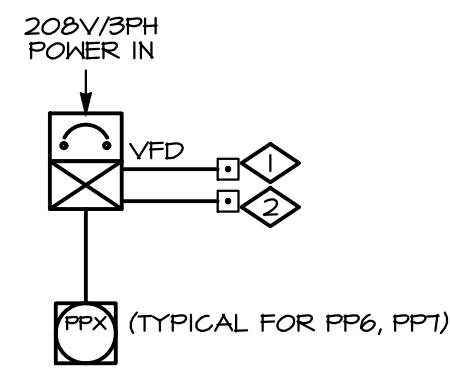
AQ900 SCALE: N.T.S.

SLIDE EPO SEQUENCE OF OPERATION

- UPON ACTIVATION (DEPRESSION) OF SLIDE EPO SWITCH, LOCATED AT THE TOP OF THE SLIDE, POWER SHALL BE SHUT DOWN TO SLIDE PUMP. REMOTE START/STOP LOCATIONS SHALL BE INACTIVE WHILE A SLIDE EPO IS DEPRESSED.
- RESTART OF EQUIPMENT AFTER ACTIVATION OF EPO SHALL OCCUR BY MANUAL RESET. EPO SWITCH SHALL BE RESTORED TO ITS NORMAL STATE AND EQUIPMENT MUST BE RESTARTED VIA LOCAL START UP OR REMOTE START/STOP LOCATIONS.

GENERAL NOTES

- SCHEMATIC DIAGRAM IS SHOWN FOR GENERAL INTERLOCK INTENT AND IS NOT INTENDED TO BE USED AS A WIRING DIAGRAM.
- ADDITIONAL INTERLOCKING/CONTROL REQUIREMENTS INDICATED IN POOL EQUIPMENT SCHEDULE.
- COMBINATION VFD/MOTOR STARTERS FURNISH AND INSTALLED BY POOL CONTRACTOR. LINE VOLTAGE CONNECTIONS BY ELECTRICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR MORE INFORMATION.



KEYNOTE LEGEND

| KEY VALUE | |
|-----------|---|
| ◇ | 1. START/STOP SWITCH WITH INDICATOR LIGHT IN REMOTE START/STOP STATION CONTROL PANEL. |
| ◇ | 2. SLIDE EPO SWITCH AT TOP OF SLIDE. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. |

2 WATER SLIDE INTERLOCK SCHEMATIC

AQ900 SCALE: N.T.S.

ABBREVIATIONS AND SYMBOLS

| | |
|--------|--|
| A | AMPERE(S) |
| AC | ABOVE COUNTER |
| AFB | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AIC | AMPERES INTERRUPTING CAPACITY |
| ATS | AUTOMATIC TRANSFER SWITCH |
| BFS | BELOW FINISHED FLOOR |
| C | CONDUIT |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CT | CURRENT TRANSFORMER |
| DISC | DISCONNECT |
| DH | DISHWASHER |
| DWS(S) | DRAWING(S) |
| (E) | EXISTING TO REMAIN |
| EC | ELECTRICAL CONTRACTOR |
| EF | EXHAUST FAN |
| (ER) | EXISTING TO BE RELOCATED |
| EM | EMERGENCY |
| EPO | EMERGENCY POWER OFF |
| ENC | ELECTRIC WATER COOLER |
| F | FUSE |
| FLA | FULL LOAD AMPS |
| G | GROUND |
| GC | GENERAL CONTRACTOR |
| GD | GARBAGE DISPOSAL |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFP | GROUND FAULT PROTECTION |
| HP | HORSEPOWER |
| IDF | INTERMEDIATE DISTRIBUTION FACILITY |
| IG | ISOLATED GROUND |
| ISC | SHORT CIRCUIT CURRENT |
| KVA | KILOVOLT AMPERE(S) |
| KW | KILOWATT(S) |
| LTS | LIGHTING |
| MCA | MINIMUM CIRCUIT AMPERE(S) |
| MCB | MAIN CIRCUIT BREAKER |
| MDP | MAIN DISTRIBUTION CENTER |
| MDF | MAIN DISTRIBUTION FACILITY |
| MLO | MAIN LUGS ONLY |
| MTS | MANUAL TRANSFER SWITCH |
| MW | MICROWAVE |
| NC | NORMALLY CLOSED |
| NL | NIGHT LIGHT - SEE GENERAL NOTES |
| NO | NORMALLY OPEN |
| OAE | OR APPROVED EQUAL |
| OH | OVERHEAD |
| P | POLE |
| PART | PARTIAL CIRCUIT |
| PH, Ø | PHASE |
| PNL | PANEL |
| (R) | REMOVED, EXISTING TO BE REMOVED |
| RCPT | RECEPTACLE |
| REF | REFRIGERATOR |
| (RL) | RELOCATED |
| RFD | SURGE PROTECTION DEVICE |
| UC | UNDER COUNTER/CABINET |
| UG | UNDERGROUND |
| UN | UNLESS OTHERWISE NOTED |
| V | VOLT(S) |
| W | WATT(S) OR WIRE |
| WG | WIRE GUARD |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| ⓧ | POOL EQUIPMENT SCHEDULE NOTATION |
| ⓧ | KITCHEN EQUIPMENT SCHEDULE NOTATION |
| ⓧ | MECHANICAL EQUIPMENT SCHEDULE NOTATION |
| ◇ | DETAIL NOTE |
| △ | DELTA REVISION NOTE |
| —x— | ELECTRICAL WIRE SIZE |

SYSTEMS

| | |
|---|---|
| — | TTB, MDF OR IDF SYSTEM BACKBOARD |
| ▽ | TELECOMMUNICATION OUTLET |
| ▽ | FLOOR MOUNTED TELECOMMUNICATION OUTLET |
| ▽ | TELEVISION OUTLET |
| ⓧ | SPEAKER - PAGING AND/OR SOUND SYSTEM (W) - INDICATES SPEAKER ZONE |
| ⓧ | MICROPHONE OUTLET |
| ◇ | VOLUME CONTROL |
| □ | PUSH BUTTON |
| □ | CLOSED CIRCUIT TELEVISION CAMERA |
| — | CABLE TRAY (LENGTH AS INDICATED ON DRAWINGS) |

LIGHTING FIXTURES

| | |
|---|--|
| A | LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH. |
| ○ | WALL MOUNTED LUMINAIRE |
| □ | SURFACE MOUNTED LUMINAIRE |
| □ | RECESSED LUMINAIRE |
| ○ | DOWNLIGHT LUMINAIRE |
| □ | SURFACE CEILING LUMINAIRE |
| ◇ | PENDANT LUMINAIRE |
| ◇ | WALLWASH LUMINAIRE |
| — | STRIP LUMINAIRE |
| — | SURFACE OR PENDANT TRACK LUMINAIRE |
| — | LINEAR PENDANT LUMINAIRE (LENGTH AS INDICATED ON DRAWINGS/SCHEDULE) |
| ⓧ | EXIT LUMINAIRE - SHADED INDICATES FACE/ DIRECTIONAL ARROWS AS SHOWN. |
| ⓧ | BATTERY PACK EMERGENCY LUMINAIRE |
| ⓧ | EMERGENCY LUMINAIRE - SHADED PROVIDE WITH INTEGRAL BATTERY BACKUP |
| ○ | PORCELAIN LAMP HOLDER |
| ⓧ | STEP LIGHT TYPE LUMINAIRE |
| ⓧ | BOLLARD OR POST TOP LUMINAIRE |
| ⓧ | EXTERIOR AREA LIGHT |

WIRING DEVICES

| | |
|------|---|
| ⓧ | DUPLEX RECEPTACLE |
| ⓧ | FOUR PLEX RECEPTACLE |
| ⓧ | SINGLE RECEPTACLE |
| ⓧ | COMBO RECEPTACLE/SWITCH |
| ⓧ | SWITCHED DUPLEX RECEPTACLE |
| ⓧ | SPECIAL PURPOSE RECEPTACLE |
| ⓧ | FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE |
| ⓧ | FLOOR MOUNTED RECEPTACLE DUPLEX/GUARD |
| —SR— | SURFACE RACEWAY |
| ⓧ | CLOCK RECEPTACLE |
| ⓧ | JUNCTION BOX |
| ⓧ | WALL MOUNTED J-BOX |
| ⓧ | FLOOR MOUNTED JUNCTION BOX |
| ⓧ | MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE |
| ⓧ | NON-FUSED DISCONNECT SWITCH |
| ⓧ | FUSED DISCONNECT SWITCH |
| ⓧ | MAGNETIC CONTROLLER (STARTER) |
| ⓧ | COMBINATION STARTER/DISCONNECT SWITCH |
| ⓧ | MOTOR |
| ⓧ | RELAY |
| ⓧ | TIME CLOCK |
| ⓧ | PHOTOCELL |
| ⓧ | THERMAL OVERLOAD SWITCH |
| ⓧ | SINGLE POLE SWITCH |
| ⓧ | 3-WAY SWITCH |
| ⓧ | 4-WAY SWITCH |
| ⓧ | KEY OPERATED SWITCH |
| ⓧ | DIMMER SWITCH |
| ⓧ | RECESSED DOOR SWITCH |
| ⓧ | LIGHTING CONTROL DEVICE. REFER TO DETAILS FOR CONTROL INTENT. |
| ⓧ | POOL CO2 SYSTEM SENSOR |
| ⓧ | POOL CO2 SYSTEM ALARM LIGHT |

DISTRIBUTION AND RACEWAY

| | |
|---|---|
| ⓧ | MAIN DISTRIBUTION CENTER (MDC) |
| ⓧ | SURFACE MTD PANELBOARD |
| ⓧ | RECESSED PANELBOARD |
| ⓧ | TRANSFORMER |
| ⓧ | BRANCH CIRCUIT HOMERUN |
| ⓧ | CONDUIT CONCEALED IN FLOOR OR UNDERGROUND |
| ⓧ | CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING |
| ○ | RACEWAY UP |
| ○ | RACEWAY DOWN |
| ⓧ | CAPPED CONDUIT |
| ⓧ | CURRENT TRANSFORMER |
| ⓧ | CIRCUIT BREAKER SWITCH |
| ⓧ | FUSED SWITCH |
| ⓧ | GROUNDING ELECTRODE CONDUCTOR |
| ⓧ | METER |
| ⓧ | GROUND FAULT PROTECTION |

ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
- MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL, ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
- ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS, EXCEPT AS NOTED OTHERWISE.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES SHOP DRAWINGS, WHICH ARE REQUIRED BY THESE AGENCIES, FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
- ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
- E.G. IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE RATED PENETRATION INSTALLATION REQUIREMENTS. E.G. IS TO NOTIFY ENGINEER AND ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATINGS MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL, TEXTING.
- SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIMENSIONS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE, ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- SUBMIT ELECTRONIC OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW.
 - POOL PUMP EQUIPMENT
 - COMBINATION VFD/DISCONNECT/STARTERS
 - PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
- ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
- ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES FOR ALL NEW PANELS AND EXISTING PANELS WHICH HAVE CHANGED. PANELBOARD SHALL BE MARKED WHERE THE SOURCE OF POWER SUPPLY ORIGINATES, AND IF SERIES COMBINATION SYSTEMS ARE UTILIZED AND THEIR LISTED AMPERE RATINGS.
- DO NOT SHARE NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS. WHERE SHARED NEUTRAL CONDUCTORS ARE REQUIRED (SUCH AS POWERED FURNITURE SYSTEMS), HANDLE TIES SHALL BE PROVIDED ON THE CIRCUIT BREAKERS, WITH SHARED NEUTRALS, SUCH THAT IT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ALL HANDLE TIES ARE REQUIRED TO BE INDICATED ON THE PANELBOARD SHOP DRAWINGS.
- SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
- ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.
- ALL WIRING NOT INSTALLED IN CONDUIT AND INSTALLED IN THE CEILING SPACE SHALL BE PLENUM RATED. ALL WIRING WITHIN POOL EQUIPMENT ROOMS AND POOL SPACE SHALL BE WITHIN PVC CONDUIT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
- EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
- MINIMUM CONDUIT SIZE IS 3/4".
- "MC" CABLE IS NOT ACCEPTABLE.
- IN EXPOSED AND SUSPENDED CEILING APPLICATIONS, ROUTE CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE. ROUTING WITHIN POOL AREA SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT CONDUIT TO MATCH ADJACENT FINISHES.
- ALL RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-20R, UNLESS OTHERWISE NOTED.
- ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, QUIET OPERATION RATED 120/277 VOLT, 20 AMP, UNLESS OTHERWISE NOTED.
- ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT OR OWNER.
- ROUGH-IN FOR POOL EQUIPMENT SHALL ONLY OCCUR AFTER POOL EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- PROVIDE NEMA 3R AND CORROSION RESISTANT ELECTRICAL EQUIPMENT AND WIRING METHODS WITHIN POOL EQUIPMENT, POOL AND WHIRLPOOL AREAS. REFER TO DRAWINGS AND SPECIFICATION.
- THE POWER AND CONTROL REQUIREMENTS FOR ALL EQUIPMENT CONNECTIONS SHALL BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. FINAL POWER REQUIREMENTS, DIMENSIONED ROUGH-IN LOCATIONS, LOW VOLTAGE SYSTEM CONNECTIONS, ETC. SHALL BE CONFIRMED AND MODIFIED AS REQUIRED.
- ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.
- IDENTIFY EACH RECEPTACLE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER. USE HOT, STAMPED, OR ENGRAVED MACHINE PRINTINGS WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.
- UNLESS OTHERWISE NOTED, ALL GFCI RECEPTACLES SHALL HAVE TEST/RESET SWITCHES INTEGRAL TO RECEPTACLE DEVICE.



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WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION

WILLISTON WATER
WORLD

CITY WILLISTON

STATE NORTH DAKOTA

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
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PROJECT NO: 20224620

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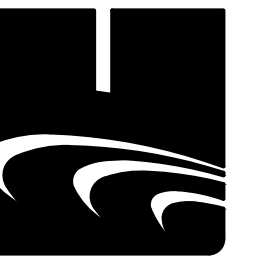
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PROJECT DESCRIPTION
**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
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DRAWING TITLE
**ELECTRICAL OVERALL
PLAN**

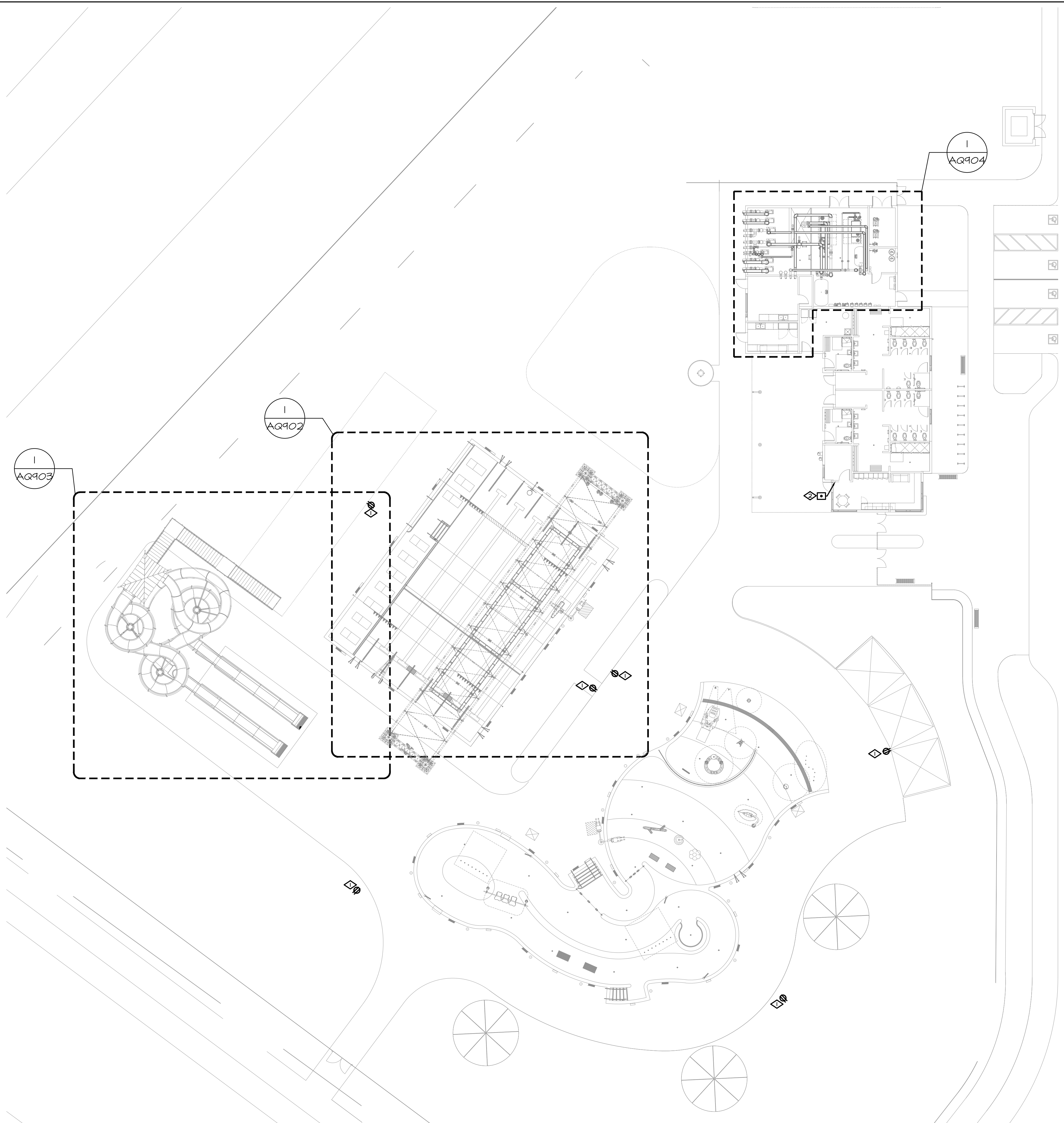
AQ901

GENERAL NOTES

- REFER TO AQ-900 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- REFER TO ENLARGED PLANS FOR MORE INFORMATION.
- REFER TO AQ904 FOR POOL EQUIPMENT SCHEDULES.
- ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ELECTRICAL ENGINEER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

KEYNOTE LEGEND

| KEY VALUE | |
|-----------|--|
| ◇ | 1. PROVIDE NEMA 5-20R RECEPTACLE FOR CORD AND PLUG POWER CONNECTION TO OWNER PROVIDED PORTABLE VACUUM SYSTEM. RECEPTACLE SHALL BE PROTECTED WITH 30MA GFCI BREAKER. HINGED WATER TIGHT OUTLET BOX HOOD SHALL BE LISTED FOR "EXTRA DUTY" PER NEC 406.9 (B)(1). E.C. SHALL COORDINATE EXACT NEMA CONFIGURATION, LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN. |
| ◇ | 2. PROPOSED LOCATION FOR POOL PUMP REMOTE START/STOP CONTROL PANEL FOR PP1, PP2, PP4, PP6 AND PPT. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER. REFER TO POOL EQUIPMENT SCHEDULE AND AQUATICS SYSTEM SCHEMATIC DIAGRAMS FOR ADDITIONAL DETAILS. |



1 | ELECTRICAL OVERALL PLAN
AQ901 | SCALE: 1/16" = 1'-0"



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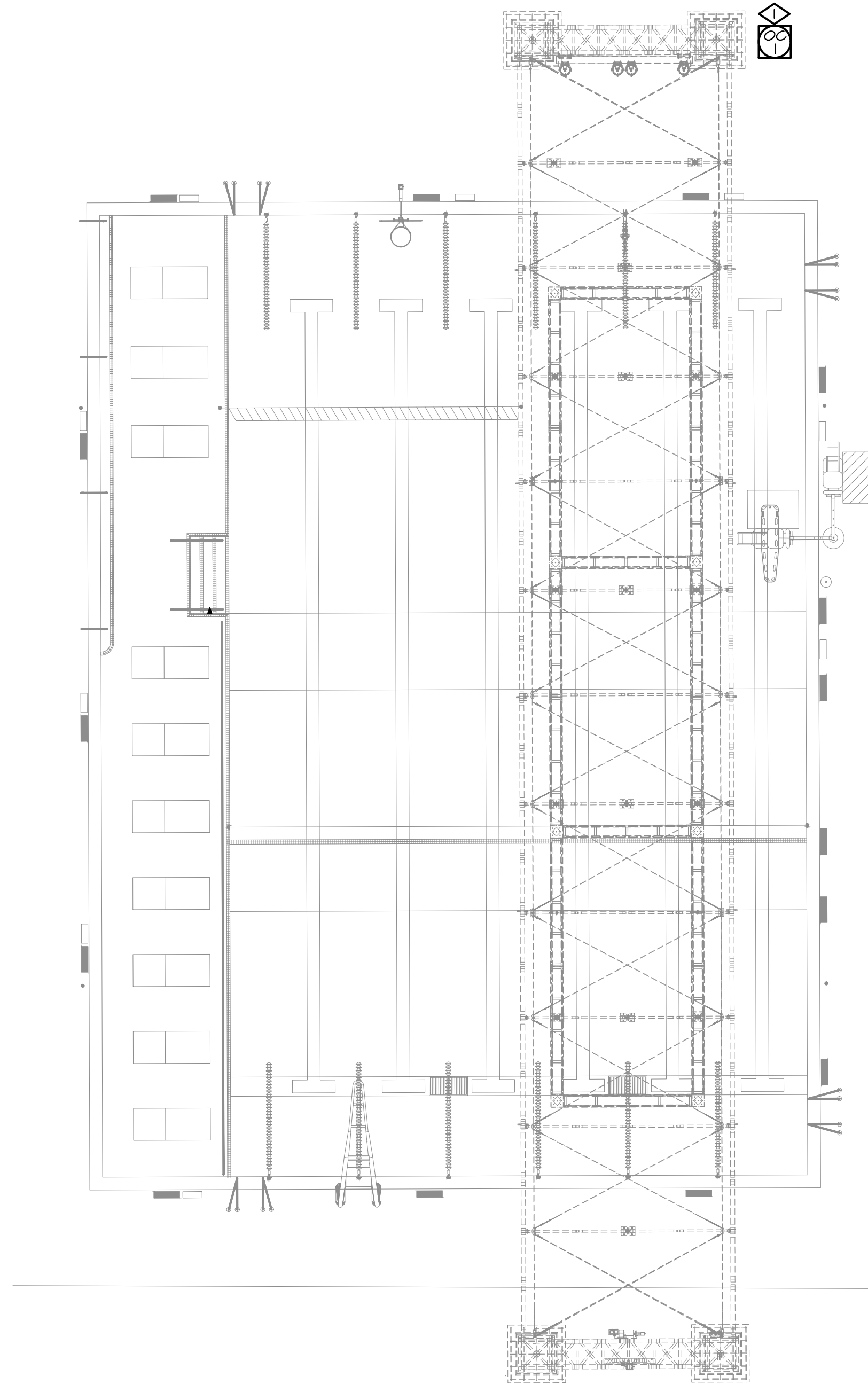
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DRAWING TITLE
**ELECTRICAL FITNESS
POOL PLAN**

AQ902



| GENERAL NOTES | |
|---------------|--|
| A. | ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ELECTRICAL ENGINEER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. |
| B. | EQUIPMENT AT THE POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #1 SHEET AQ900 FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL EQUIPMENT. |
| C. | REFER TO AQ904 FOR ENLARGED POOL EQUIPMENT ROOM PLAN AND SCHEDULE. |

| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | |
| ◀ | 1. PROVIDE DEDICATED 120V 20A CIRCUIT FOR OBSTACLE COURSE STRUCTURE POWER CONNECTION AS REQUIRED BY MANUFACTURER SHOP DRAWINGS. |



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PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY **WILLISTON**
STATE **NORTH DAKOTA**

ISSUE DATES

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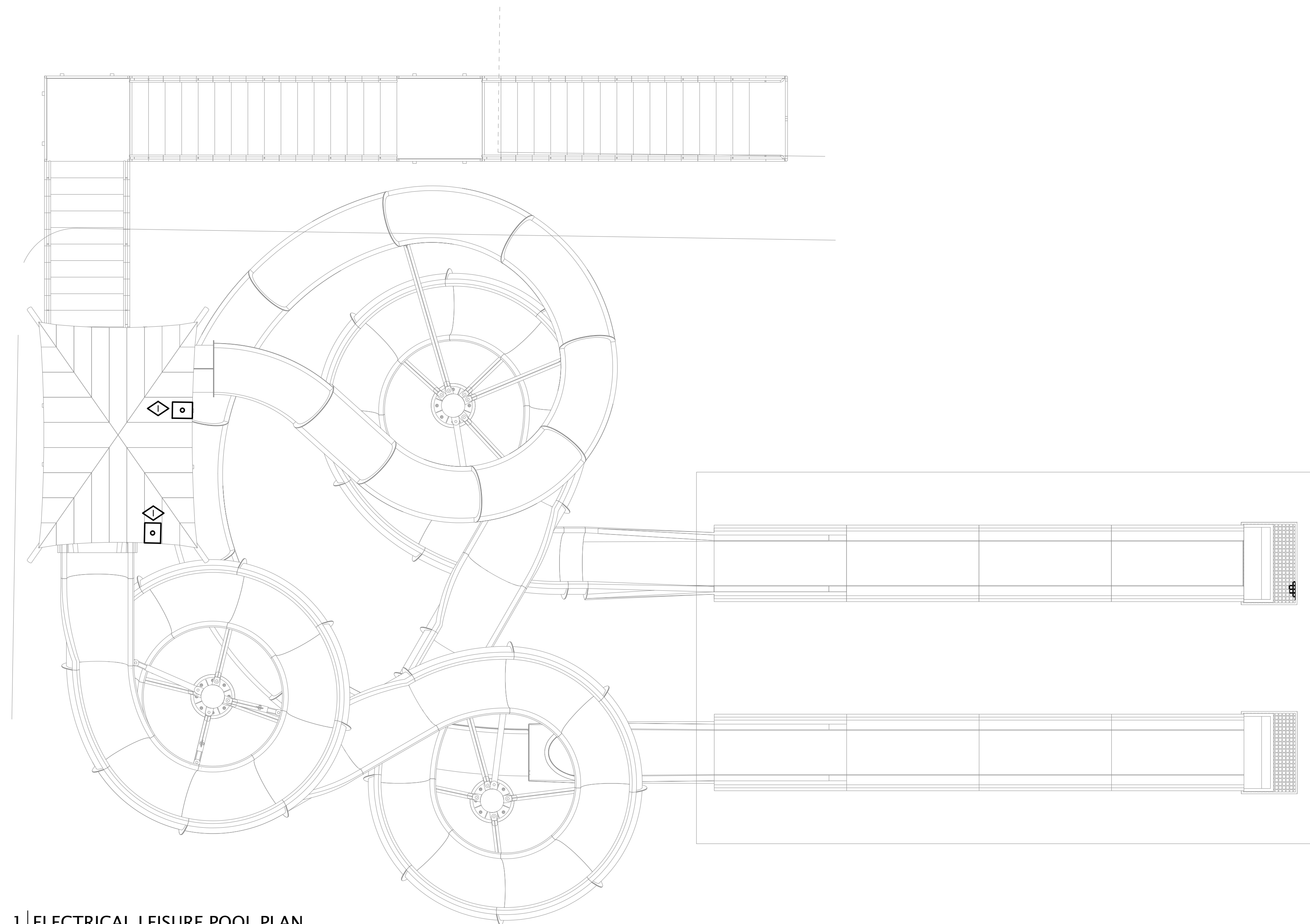


DRAWING TITLE
ELECTRICAL WATERSLIDE PLAN

AQ903

| GENERAL NOTES | |
|---------------|--|
| A. | ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ELECTRICAL ENGINEER'S SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. |
| B. | EQUIPMENT AT THE POOL DECK AREAS AND SLIDE STRUCTURE SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #1 SHEET AQ900 FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL EQUIPMENT. |
| C. | REFER TO AQ904 FOR ENLARGED POOL EQUIPMENT ROOM PLAN AND SCHEDULE. |

| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | |
| ◇ | 1. WATERSLIDE EPO SWITCH. EC SHALL FIELD COORDINATE EXACT LOCATION OF EPO SWITCH, AT THE TOP OF THE WATER SLIDE PLATFORM AS NOTED, WITH POOL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN. EPO SWITCH SHALL BE PROVIDED FOR THE SHUT DOWN OF PUMP ASSOCIATED WITH THE WATER SLIDES (PP64 PPT). LABEL EPO SWITCH AS "SLIDE EMERGENCY STOP". EPO SWITCH LOCATION AND INSTALLATION SHALL COMPLY WITH STATE HEALTH DEPARTMENT REGULATIONS AND NEC ARTICLE #680. CONFIRM ALL REQUIREMENTS PRIOR TO INSTALLATION. PROVIDE A PLASTIC ENCLOSURE FOR E-STOP TO PREVENT INADVERTENT ACTIVATION. |



1 | **ELECTRICAL LEISURE POOL PLAN**
AQ903 | SCALE: 1/8" = 1'-0"

| POOL EQUIPMENT SCHEDULE | | | | | | | | | | | |
|-------------------------|---------------------------------------|-------|----|--------------------|--------------|---------------------|---------------------|-----------|-------------|------------|-------|
| KEY | DESCRIPTION | VOLTS | PH | LOAD HP/KVA/FLA | MOCF/ MFS | FEEDER | DISCONNECT | STARTER | | CIRCUIT | NOTES |
| | | | | | | | | NEMA SIZE | AUX CONTACT | | |
| LEISURE POOL | | | | | | | | | | | |
| H2A | POOL HEATING SYSTEM | 120 | 1 | 14 A | 30 A | 2#10, 1#106, 3/4"C | 30A/1P | -- | -- | P2-14 | 2, 4 |
| H2B | POOL HEATING SYSTEM | 120 | 1 | 14 A | 30 A | 2#10, 1#106, 3/4"C | 30A/1P | -- | -- | SEE E-DW95 | 2, 4 |
| CF2 | CHLORINATION BOOSTER PUMP | 120 | 1 | 1.5 HP | 20 A | 2#12, 1#126, 3/4"C | 30A/1P | -- | -- | P2-21 | 2, 3 |
| CF4 | CO2 FEED PUMP | 120 | 1 | FRAC | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI SWITCHED | -- | -- | P2-26 | 2, 3 |
| PP1 | POOL RIVER PUMP | 208 | 3 | 15 HP | 90 A | 3#2, 1#86, 1-1/4"C | 100A/3P | SEE 2F1 | -- | MPD-3 | 7 |
| 2F1 | VFD FOR PP1 | 208 | 3 | SEE PP1 | SEE PP1 | SEE PP1 | SEE PP1 | -- | 24V N.C. | -- | 2 |
| PP2 | POOL RIVER PUMP | 208 | 3 | 15 HP | 90 A | 3#2, 1#86, 1-1/4"C | 100A/3P | SEE 2F2 | -- | MPD-4 | 7 |
| 2F2 | VFD FOR PP2 | 208 | 3 | SEE PP2 | SEE PP2 | SEE PP2 | SEE PP2 | -- | 24V N.C. | -- | 2 |
| PP3 | RECIRCULATION PUMP | 208 | 3 | 30 HP | 125 A | 3#10, 1#66, 1-1/2"C | 200A/3P | SEE 1C | -- | MPD-5 | 3 |
| 2C | VFD FOR PP3 AND BYPASS PANEL | 208 | 3 | SEE PP3 | SEE PP3 | SEE PP3 | SEE PP3 | -- | 24V N.C. | -- | 2 |
| PP4 | POOL FEATURE PUMP | 208 | 3 | 7.5 HP | 50 A | 3#6, 1#106, 1"C | 60A/3P | SEE 2F4 | -- | MPD-6 | 7 |
| 2F4 | VFD FOR PP4 | 208 | 3 | SEE PP4 | SEE PP4 | SEE PP4 | SEE PP4 | -- | 24V N.C. | -- | 2 |
| 2A | CHEMICAL CONTROLLER | 120 | 1 | 15 FLA | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI | -- | -- | P2-18 | 2 |
| 2B | WATER LEVEL CONTROLLER | 120 | 1 | 15 FLA | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI | -- | -- | P2-20 | 2 |
| UIA | UV TREATMENT SYSTEM - CONTROL CABINET | 120 | 1 | 4.8A | 20A | 2#12, 1#126, 3/4"C | 30A/1P | -- | -- | P2-17 | 2, 6 |
| UIB | UV TREATMENT SYSTEM - 10-LAMP | 120 | 1 | SEE U-1B | SEE U-1B | SEE U-1B | SEE U-1B | -- | -- | P2-24 | 2, 6 |
| 4J | CARBON DIOXIDE MONITOR SYSTEM | 120 | 1 | 15 FLA | 20A | 2#12, 1#126, 3/4"C | 1W UNIT | -- | -- | P2-14 | 5 |
| FITNESS POOL | | | | | | | | | | | |
| H1A | POOL HEATING SYSTEM | 120 | 1 | 10.5 A | 30 A | 2#10, 1#106, 3/4"C | 30A/1P | -- | -- | P2-23 | 2, 4 |
| H1B | POOL HEATING SYSTEM | 120 | 1 | 10.5 A | 30 A | 2#12, 1#126, 3/4"C | 30A/1P | -- | -- | SEE E-DW95 | 2, 4 |
| CF1 | CHLORINATION BOOSTER PUMP | 120 | 1 | 1.5 HP | 20 A | 2#12, 1#126, 3/4"C | 30A/1P | -- | -- | P2-25 | 2, 3 |
| CF3 | CO2 FEED PUMP | 120 | 1 | FRAC | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI SWITCHED | -- | -- | P2-29 | 2, 3 |
| PP5 | RECIRCULATION PUMP | 208 | 3 | 20 HP | 100 A | 3#1, 1#86, 1-1/2"C | 100A/3P | SEE 2C | -- | MPD-7 | 3 |
| 1C | VFD FOR PP5 AND BYPASS PANEL | 208 | 3 | SEE PP5 | SEE PP5 | SEE PP5 | SEE PP5 | -- | 24V N.C. | -- | 2 |
| 1A | CHEMICAL CONTROLLER | 120 | 1 | 15 FLA | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI | -- | -- | P2-16 | 2 |
| 1A | WATER LEVEL CONTROLLER | 120 | 1 | 15 FLA | 20A | 2#12, 1#126, 3/4"C | 5-20R, GFI | -- | -- | P2-22 | 2 |
| WATERSLIDE | | | | | | | | | | | |
| PP6 | CLOSED FLUME SLIDE PUMP | 208 | 3 | 15 HP | 90 A | 3#2, 1#86, 1-1/4"C | 100A/3P | SEE 2F6 | -- | MPD-8 | 1, 7 |
| 2F6 | VFD FOR PP6 | 208 | 3 | SEE PP6 | SEE PP6 | SEE PP6 | SEE PP6 | -- | 24V N.C. | -- | 2 |
| PP7 | OPEN FLUME SLIDE PUMP | 208 | 3 | 20 HP | 100 A | 3#1, 1#86, 1-1/2"C | 100A/3P | SEE 2F7 | -- | MPD-9 | 1, 7 |
| 2F7 | VFD FOR PP7 | 208 | 3 | SEE PP7 | SEE PP7 | SEE PP7 | SEE PP7 | -- | 24V N.C. | -- | 2 |

GENERAL NOTES:

- PROVIDE 120V CONTROL WIRING AS REQUIRED PER POOL EQUIPMENT SCHEDULE ON POOL DRAWINGS.
- REFER TO POOL DRAWINGS, AIA-SEE SHEETS FOR EQUIPMENT LOCATIONS.
- FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED FUSE SIZING PRIOR TO ENERGIZING CIRCUIT.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL AQUATICS PLANS AND PROVIDE ALL WORK AS CALLED OUT TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH POOL CONTRACTOR.
- ALL DISCONNECTS SHALL BE NEMA 4X RATED WITH NON-METALLIC ENCLOSURE AND STAINLESS STEEL HARDWARE FOR CORROSION RESISTANCE.
- MOTORS REQUIRING STARTERS SHALL UTILIZE COMBINATION START/DISCONNECT. STARTERS SHALL BE NON-REVERSING WITH NEMA SIZE AS LISTED. ALL STARTERS SHALL UTILIZE CIRCUIT BREAKERS FOR OVERCURRENT PROTECTION.
- PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS, MINIMUM 18" IN LENGTH.
- WHERE MOTOR IS WITHIN SIGHT (PER THE DEFINITION OF THE NEC) OF AN ASSOCIATED MOTOR CONTROL CENTER, THE INDICATED DISCONNECT SWITCH IS NOT REQUIRED.
- ALL POOL PUMP MOTORS CONNECTED TO A SINGLE PHASE 120, 208, OR 240 BRANCH CIRCUIT SHALL BE PROVIDED WITH 5mA GROUND-FAULT CIRCUIT-INTERDISRUPTER.
- ALL MOTORS GREATER THAN 7.5 HORSEPOWER ARE TO BE PROVIDED WITH PHASE LOSS PROTECTION.
- PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS PER POOL ENGINEER. EMERGENCY SHUTOFF BUTTON LOCATIONS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S RISK MANAGEMENT CONSULTANT.
- PROVIDE CLEARLY LABELED EMERGENCY POWER OFF (EPO) SWITCHES FOR EMERGENCY SHUTDOWN OF ALL POOL WATER HEATER/BOILER SYSTEMS AS REQUIRED BY CODE. EPO SWITCH LOCATIONS SHALL BE AT EACH EGRESS DOOR LEADING FROM THE ROOM HOUSING THE POOL WATER HEATER SYSTEM(S) AND SHALL BE COORDINATED WITH THE POOL ENGINEER AND OWNER'S RISK MANAGEMENT CONSULTANT.
- REFER TO MAIN BUILDING ELECTRICAL PLANS FOR CIRCUIT NUMBERS, PANELBOARD SCHEDULES, AND LOAD CALCULATIONS.
- ALL LOW VOLTAGE CONTROL WIRING AND CONNECTIONS BETWEEN POOL SYSTEMS SHALL BE PROVIDED BY POOL CONTRACTOR. ALL LINE VOLTAGE AND/OR HIGH VOLTAGE CONNECTIONS AND INTERLOCKS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

VFD SPECIFICATION REQUIREMENTS:

- VFD UNIT SHALL BE RATED FOR THE SAME VOLTAGE AS THE DRIVE MOTOR AND THE ENCLOSURE SHALL BE NEMA 12 RATED.
- PROVIDE MANUAL SPEED ADJUSTMENT VIA KEY PAD OR DIAL MOUNTED ON THE ENCLOSURE'S EXTERIOR.
- VFD UNIT SHALL BE SUITABLE FOR OPERATING IN ENVIRONMENTS BETWEEN 15 TO 110 DEGREES FAHRENHEIT (STORAGE TEMPERATURE -40 TO 150 DEGREES FAHRENHEIT) AND HUMIDITY UP TO 90% NON-CONDENSING.
- PROVIDE VFD WITH CAPABILITY OF 30 SECOND RAMP UP TO FULL SPEED AND 5 SECOND RAMP DOWN FROM FULL SPEED TO ZERO FOR ALL APPLICATIONS USING FILTRATION SYSTEM WITH REGENERATIVE MEDIA FILTER. COORDINATE LOCATIONS WITH POOL CONTRACTOR.
- PROVIDE THE VFD WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO ALL EXTERNAL RELAY(S) AND EQUIPMENT AS REQUIRED BY THE POOL CONTRACTOR'S DRAWINGS.
- VFD SHALL OPERATE AS CONTROLLED BY THE POOL CHEMICAL CONTROLLER TO ALLOW THE VFD TO MODULATE THE PUMP MOTOR TO MAINTAIN A CONSTANT FLOW RATE. VFD SHALL ACCEPT DIGITAL INPUT INTERLOCK SIGNAL FROM CONTROL SYSTEMS AS DETAILED IN POOL DRAWINGS. ALL LOW VOLTAGE CONNECTIONS TO THE RESPECTIVE POOL SYSTEM WILL BE BY THE POOL CONTRACTOR. ALL LINE VOLTAGE CONNECTIONS WILL BE BY THE ELECTRICAL CONTRACTOR.
- WHEN INDICATED, VFDs SHALL INCLUDE A BYPASS FUNCTION TO ALLOW FOR PUMP MOTOR OPERATION IN BYPASS OPERATION. BYPASS MAY BE INTERNAL TO VFD OR IN SEPARATE NEMA 4X ENCLOSURE.
- APPROVED VFD MANUFACTURERS: H2FLOW #ECO-FLOW-C SERIES, PENTAIR #ACUDRIVE SERIES, OR APPROVED EQUAL.
- MANUFACTURER OR DESIGNATED REPRESENTATIVE SHALL PERFORM FIELD TEST OF EACH DRIVE, AND PROVIDE OWNER WITH OPERATIONAL AND MAINTENANCE TRAINING.
- FOR PARALLEL OPERATION OF RECIRCULATION PUMPS (WHEN REQUIRED):
 - THE VFD MUST BE RATED TO SIMULTANEOUSLY OPERATE ALL PUMPS IN PARALLEL AT FULL LOAD.
 - AN OVERLOAD RELAY FOR EACH MOTOR MUST BE PROVIDED AND CONFIGURED IN SUCH A WAY TO PROTECT THEIR RESPECTIVE MOTORS WHEN IN EITHER VFD

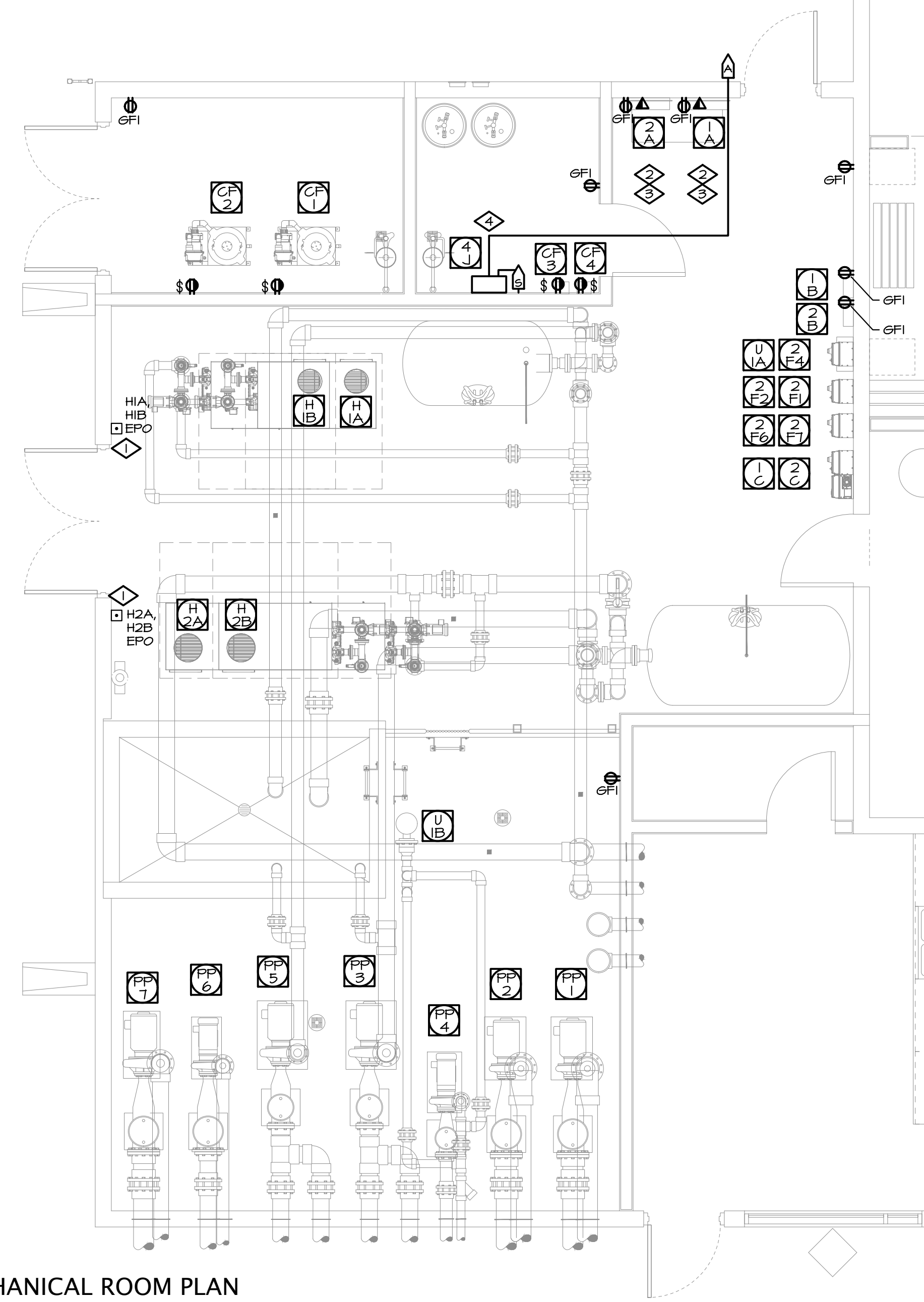
SPECIFIC NOTES:

- PUMP SHALL BE SHUT-DOWN WITH REMOTE EMERGENCY STOP BUTTON. REFER TO POOL PLANS FOR MORE INFORMATION. BUTTON LOCATION AND INSTALLATION SHALL COMPLY WITH STATE HEALTH DEPARTMENT REGULATIONS AND NEC ARTICLE 680.
- LOW VOLTAGE CONTROL WIRING CONNECTIONS ARE REQUIRED BETWEEN THE POOL PUMP VFDs, THE WATER CHEMISTRY CONTROLLER, CHLORINE SYSTEM, CO2 FEED SYSTEM, FLOW METER, AND HEATING SYSTEM, FOR AUTOMATION AMONG POOL EQUIPMENT. CONDUIT SHALL BE PROVIDED BY EC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY PC.
- CIRCUIT SHALL BE INTERLOCKED WITH POOL PUMPS TO SUSPEND CHEMICAL FEEDING IN THE EVENT THE MAIN RECIRCULATION PUMPS ARE SHUT DOWN. INTERLOCK FUNCTION SHALL BE PROVIDED VIA CONNECTION BETWEEN DEVICE/CIRCUIT AND CHEMICAL CONTROLLER.
- ALL WIRING SHALL BE MADE WITH TYPE T WIRE. LINE VOLTAGE WIRE EXTERIOR TO APPLIANCE MUST BE ENCLOSED IN APPROVED CONDUIT. PROVIDE INTERCONNECTION LOW VOLTAGE CONTROL WIRING TO WATER CHEMISTRY CONTROLLER.
- PROVIDE CARBON DIOXIDE MONITORING SYSTEM FOR THE PH BUFFER ROOM COMPLETE WITH A HEAD-END DISPLAY WITH DETECTION PROBE, DUAL WALL MOUNTED STROBES, SOLENOID SHUT-OFF VALVE, AND EF 4 DDC RELAY. THE UNIT WILL ACTIVATE A DEDICATED EXHAUST FAN, ALARM BUILDING DDC SYSTEM, ACTIVE LOCAL STROBES, AND SHUT THE SOLENOID VALVE. UNIT SHALL BE "CO2METER.COM" MODEL RAD-0102-6 CO2 STORAGE SAFETY 3 ALARM WITH CM-1026 DUAL STROBE KIT. INSTALL DETECTION PROBE IN PH BUFFER ROOM PER MANUFACTURER'S APPROVED SHOP DRAWINGS. INSTALL ONE STROBE INSIDE PH BUFFER ROOM NEAR DOOR AT 7'-0" A.F.F. AND ONE STROBE OUTSIDE OF PH BUFFER ROOM AT 7'-0" A.F.F. INSTALL HEAD-END PANEL ON WALL OUTSIDE OF PH BUFFER ROOM AT 5'-0" A.F.F. TO CENTER. PROVIDE LOW VOLTAGE INTERCONNECTION WIRING TO BUILDING DDC SYSTEM.
- OVERCURRENT PROTECTION SIZED PER MANUFACTURER RECOMMENDATION. UV SYSTEMS WITH MULTIPLE LAMPS OPERATE AS UNBALANCED LOADS DURING INITIAL STARTUP (BURN IN) OF THE LAMPS. THEY BURN INTO 100% OUTPUT SIMILAR TO SODIUM HALIDE LAMPS. DURING THAT INITIAL "BURN IN" THE LAMPS FIRE IN SEQUENCE ABOUT 15 TO 25 SECONDS APART. LAMPS DRAW MORE CURRENT, MORE THAN DOUBLE, AT INITIAL IGNITING OF THE FILAMENT. THEREFORE, UNTIL THE LAMPS SETTLE IN, USUALLY ABOUT 5 MINUTES AFTER STARTUP OF THE SYSTEM, THEY DRAW SIGNIFICANTLY MORE AMPERAGE, THEREFORE LOAD CANNOT BE CALCULATED LIKE A MOTOR. MANUFACTURER RECOMMENDS THE LARGER BREAKERS TO PROTECT THE SYSTEM FROM TRIPPING OUT DURING THAT PERIOD. AFTER BURN IN, THE OPERATING LOAD IS MUCH LESS.
- PROVIDE REMOTE/START STOP STATION FOR PUMPS INDICATED AND ASSOCIATED CONTROL WIRING FROM PUMP STARTER/VFD AUXILIARY CONTACTS TO REMOTE START/STOP STATION. REFER TO A901 FOR REMOTE START/STOP CONTROL PANEL LOCATION.

| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | |
| 1. | EC SHALL PROVIDE EPO PUSH BUTTON ADJACENT TO DOOR FOR SHUT DOWN OF POOL HEATING EQUIPMENT. PROVIDE ALL CONTROL WIRING PER EQUIPMENT MANUFACTURERS REQUIREMENTS. |
| 2. | WIRE BOXES SUPPLIED WITH THE WATER CHEMISTRY CONTROLS SHALL RECEIVE 4-20mA OR LINE VOLTAGE CONTROL WIRING (BY POOL CONTRACTOR) CONNECTIONS FROM THE FOLLOWING POOL SYSTEMS FOR ADDITIONAL CONTROLS FUNCTION: CONFIRM EXACT REQUIREMENTS WITH APPROVED SHOP DRAWINGS AND POOL CONTRACTOR; EC SHALL PROVIDE 3" CONDUIT AS REQUIRED: <ul style="list-style-type: none"> a. POOL RECIRCULATION PUMP VFDs b. POOL CHLORINE FEED SYSTEM c. CO2 FEED SYSTEM d. POOL RECIRCULATION FLOW METER POOL HEATING SYSTEM |
| 3. | PROVIDE 2-INCH DEEP, 2-GANG OUTLET BOX WITH SINGLE-GANG PLASTER RING AND FOUR POSITION FACEPLATE FOR CHEMICAL CONTROLLER LAN CONNECTION AND TIE INTO BUILDING AUTOMATION SYSTEM AND REMOTE MONITORING AS REQUIRED. PROVIDE MINIMUM OF 1-INCH EMT FROM OUTLET BOX TO STUB OUT ABOVE CEILING POINT WITH ROUTING ACCESS FROM MDF/DF LOCATION. STRUCTURED CABLING, JACKS, AND CABLE TERMINATIONS SHALL BE BY MV CONTRACTOR/INTEGRATOR. PROVIDE SPARE FULL WIRE IN ALL CONDUIT RACEWAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER/ARCHITECT. |
| 4. | PROVIDE 120V POWER CONNECTION TO CO2 MONITORING SYSTEM IN PH BUFFER ROOM. SYSTEM SHALL HAVE HEAD END DISPLAY WITH DETECTION PROBE, DUAL WALL MOUNTED STROBES, SOLENOID SHUT-OFF VALVE, AND EF 4 DDC RELAY. PROVIDE ALL REQUIRED CONTROL AND INTERFACE WIRING PER APPROVED MANUFACTURER'S SHOP DRAWINGS AND WIRING DIAGRAMS. FIELD COORDINATE FINAL LOCATION WITH P.C. |

GENERAL NOTES

- ALL WIRING Routed WITHIN WITHIN THIS ROOM SHALL BE WITHIN NON-METALLIC CONDUIT.
- ALL RECEPTACLE DEVICES LOCATED WITHIN POOL MECHANICAL ROOM SHALL BE GFI, PROVIDED WITH WEATHERPROOF WHILE-IN-USE COVERS, UNLESS OTHERWISE NOTED.
- ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ENGINEER SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- EQUIPMENT AT THE POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL INFORMATION.
- REFER TO MAIN BUILDING ELECTRICAL PLANS FOR CIRCUIT NUMBERS, PANELBOARD SCHEDULES, AND LOAD CALCULATIONS.



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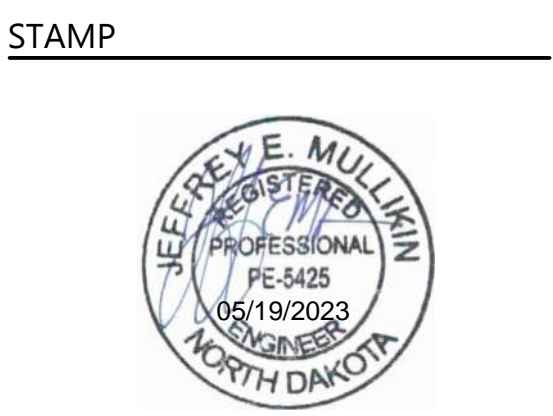
PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY WILLISTON
 STATE NORTH DAKOTA
 ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| MARK | DESCRIPTION | DATE |
| | | |

PROJECT NO: 20224620
 DRAWN BY: JM
 CHECKED BY: GP

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DRAWING TITLE
ELECTRICAL POOL MECHANICAL ROOM PLAN

AQ904

CONSULTANTS


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WILLISTON COMMUNITY BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| MARK | DESCRIPTION | DATE |

PROJECT NO: 20224620

DRAWN BY: LS

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DRAWING TITLE
MECHANICAL SYMBOLS & LEGEND SHEET

PM01

| LEGEND | |
|---------------|---|
| A | COMPRESSED AIR LINE |
| --- COND --- | CONDENSATE DRAIN OR RETURN |
| --- CHWR --- | CHILLED WATER RETURN |
| --- CHWS --- | CHILLED WATER SUPPLY |
| --- CWR --- | CONDENSER WATER RETURN |
| --- CW --- | CONDENSER WATER SUPPLY |
| --- FOR --- | FUEL OIL RETURN PIPING |
| --- FOS --- | FUEL OIL SUPPLY PIPING |
| --- FOV --- | FUEL OIL VENT PIPING |
| --- G --- | NATURAL GAS PIPING |
| --- HPC --- | HIGH PRESSURE CONDENSATE RETURN |
| --- HPR --- | HIGH PRESSURE STEAM RETURN |
| --- HPS --- | HIGH PRESSURE STEAM SUPPLY |
| --- HWR --- | HEATING WATER RETURN |
| --- HWS --- | HEATING WATER SUPPLY |
| --- LPR --- | LOW PRESSURE STEAM RETURN |
| --- LPS --- | LOW PRESSURE STEAM SUPPLY |
| --- MPS --- | MEDIUM PRESSURE STEAM |
| --- PC --- | PUMPED CONDENSATE RETURN |
| --- ST --- | STORM DRAIN PIPING (BELOW GRADE) |
| --- OST --- | OVERFLOW STORM DRAIN PIPING (BELOW GRADE) |
| --- RL --- | RAIN LEADER PIPING |
| --- ORL --- | OVERFLOW RAIN LEADER PIPING |
| --- VENT --- | VENT PIPING (AV-ACID VENT) |
| --- | DOMESTIC COLD WATER |
| --- | DOMESTIC HOT WATER |
| --- | DOMESTIC HOT WATER CIRCULATION |
| --- | SANITARY WASTE, UNDERGROUND (AW - ACID WASTE UNDERGROUND) |
| --- | SANITARY WASTE, ABOVE GRADE (AW - ACID WASTE ABOVE GRADE) |
| --- MA --- | MEDICAL AIR |
| --- OX --- | OXYGEN |
| --- VAC --- | MEDICAL VACUUM |
| --- N2O --- | NITROUS OXIDE |
| --- WAGD --- | WASTE ANESTHESIA GAS DISPOSAL |
| --- N --- | NITROGEN |
| --- V-EX --- | VACUUM EXHAUST |
| --- IA --- | INSTRUMENT AIR |
| --- CO2 --- | CARBON DIOXIDE |
| --- MA-IN --- | MEDICAL AIR INTAKE |
| --- RO --- | REVERSE OSMOSIS WATER |

| SYMBOLS | |
|---------------------|---|
| EWC | ELECTRIC WATER COOLER |
| MB | MOP BASIN |
| L | LAVATORY |
| S | SINK |
| U | URINAL |
| WC | WATER CLOSET |
| FD | FLOOR DRAIN, AREA DRAIN |
| HATCH | HATCH INDICATES ITEM(S) TO BE REMOVED |
| INTERNALLY LINED | INTERNALLY LINED DUCTWORK |
| POINT OF CONNECTION | POINT OF CONNECTION (NEW TO EXISTING) |
| POINT OF DEMOLITION | POINT OF DEMOLITION |
| M2T | DETAIL DESIGNATION |
| M3T | SECTION DESIGNATION |
| XX | SHEET / CONSTRUCTION NOTE NUMBER |
| △ | REVISION NUMBER |
| S-1 | S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER |
| 100 | CFM QUANTITY IN ROOM |

| LEGEND | |
|---------------|---|
| R | SLOPING RISE (R) OR DROP (D) IN DUCTWORK |
| 18x12" | DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE |
| 18"Ø | ROUND DUCT DIAMETER SIZE |
| | FLEXIBLE CONNECTION IN DUCT |
| | FLEXIBLE DUCT |
| VOLUME DAMPER | VOLUME DAMPER IN DUCT (VD) |
| F/S | (FD) FIRE DAMPER, (SD) SMOKE DAMPER, (F/S) COMBINATION FIRE SMOKE DAMPER, (BDD) BACK DRAFT DAMPER |
| | DUCT ACCESS DOOR |
| | ELBOW WITH TURNING VANES |
| | DUCT SPLIT WITH SPLIT SIZE |
| | BRANCH TAKEOFF WITH VOLUME DAMPER |
| | RADIUS ELBOW |
| | DUCT MOUNTED HEATING COIL WITH DUCT ACCESS DOOR UPSTREAM OF HEATING COIL |
| | SLOT DIFFUSER |
| | TERMINAL UNIT WITH HEATING COIL |
| | CEILING DIFFUSER |
| | RETURN REGISTER OR GRILLE |
| TRG 12x12" | TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE) |
| S-1 | SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION (100 CFM) |
| R-1 | RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION (100 CFM) |
| | RECTANGULAR SUPPLY DUCT UP |
| | RECTANGULAR SUPPLY DUCT DOWN |
| | RECTANGULAR RETURN DUCT UP |
| | RECTANGULAR RETURN DUCT DOWN |
| | RECTANGULAR EXHAUST DUCT UP |
| | RECTANGULAR EXHAUST DUCT DOWN |
| | ROUND DUCT, UP |
| | ROUND DUCT, DOWN |
| ⊞ | SQUARE FEET |
| T2 | THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION |
| S | DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE. |
| | FLOW SWITCH |
| H | HUMIDISTAT |

| FIRE PROTECTION | |
|-----------------|--|
| • | SPRINKLER HEAD - PENDANT |
| ○ | SPRINKLER HEAD - PENDANT ON DROP |
| ⊗ | SPRINKLER HEAD - PENDANT ON DROP WITH GUARD |
| ⊗ | SPRINKLER HEAD - PENDANT WITH GUARD |
| ○ | SPRINKLER HEAD - UPRIGHT |
| ⊙ | SPRINKLER HEAD - UPRIGHT ON SPRIG |
| ⊗ | SPRINKLER HEAD - UPRIGHT ON SPRIG WITH GUARD |
| ⊗ | SPRINKLER HEAD - UPRIGHT WITH GUARD |
| ▷ | SPRINKLER HEAD - SIDEWALL |
| ▷ | SPRINKLER HEAD - SIDEWALL - FULLY RECESSED |
| ▷ | SPRINKLER HEAD - SIDEWALL |
| ▷ | SPRINKLER HEAD - SIDEWALL - SEMI-RECESSED |

| DUCT CONSTRUCTION STANDARDS | | H= HEIGHT REFERRED TO IN DIMENSIONS | |
|-----------------------------|--|-------------------------------------|--|
| (A) | DRIVE SLIP | (A) | DRIVE SLIP |
| (B) | PLAIN "S" SLIP | (B) | PLAIN "S" SLIP |
| (C) | HEMMED "S" SLIP | (C) | HEMMED "S" SLIP |
| (D) | BAR SLIP | (D) | BAR SLIP |
| (E) | ALTERNATE BAR SLIP (STANDARD "S" SLIP) | (E) | ALTERNATE BAR SLIP (STANDARD "S" SLIP) |
| (F) | REINFORCED BAR SLIP (CLEAT) | (F) | REINFORCED BAR SLIP (CLEAT) |
| (G) | ANGLE SLIP | (G) | ANGLE SLIP |
| (H) | STANDING SEAM | (H) | STANDING SEAM |
| (I) | ANGLE REINFORCED STANDING SEAM | (I) | ANGLE REINFORCED STANDING SEAM |
| (J) | ANGLE REINFORCED STANDING SEAM | (J) | ANGLE REINFORCED STANDING SEAM |

| DUCT DIMENSION | GAUGES STEEL/ALUMINUM | TYPE JOINTS | JOINT SPACING (MAXIMUM) | H" DIMENSION (MINIMUM) |
|----------------|-----------------------|-------------|-------------------------|------------------------|
| UP THRU 18" | 26 24(.020) | A & B | 8'-0" | |
| 19" THRU 24" | 24 22(.025) | C | 5'-0" | |
| 25" THRU 36" | 24 22(.025) | E OR I | 5'-0" | 1" |
| 37" THRU 54" | 22 20(.032) | E OR I | 4'-0" | 1 1/8" |
| 55" THRU 80" | 20 18(.040) | F OR G | 3'-0" | 1 1/2"x1/8"L |
| 81" THRU 96" | 18 16(.051) | H OR J | 2'-6" | 1 1/2"x1/8"L |
| OVER 96" | 18 16(.051) | H OR J | 2'-0" | 2"x1/4"L |

| | |
|-------|--------------------------------------|
| A/C | AIR CONDITIONING UNIT |
| AHU | AIR HANDLING UNIT |
| AFF | AQUEOUS FILM FORMING FOAM |
| AF | ABOVE FINISHED FLOOR |
| AD | ACCESS FLOOR OR AREA DRAIN |
| ACCU | AIR COOLED CONDENSING UNIT |
| B | |
| BV | BALANCING VALVE |
| BTU | BRITISH THERMAL UNIT |
| BOP | BOTTOM OF PIPE |
| BOB | BOTTOM OF BEAM |
| BHP | BRAKE HORSEPOWER |
| BDD | BACK DRAFT DAMPER |
| C | |
| CFM | CUBIC FEET PER MINUTE |
| CEF | CEILING EXHAUST FAN |
| CD | CEILING DIFFUSER OR CONDENSATE DRAIN |
| CC | COOLING COIL |
| C | CONVECTOR |
| CW | COLD WATER & CONDENSER WATER |
| CV | CHECK VALVE |
| CT | COOLING TOWER |
| CR | CEILING REGISTER |
| CP | CONDENSATE PUMP OR CIRCULATING PUMP |
| CONV | CONVECTOR |
| CONT | CONTINUATION |
| CO | CLEANOUT |
| CLG | CEILING |
| CWS | CHILLED WATER SUPPLY |
| CWR | CHILLED WATER RETURN |
| CUH | CABINET HEATER |
| CG | CEILING GRILL |
| CO2 | CARBON DIOXIDE |
| D | |
| DX | DIRECT EXPANSION |
| DWG | DRAWING |
| DR | DRAIN |
| DN | DOWN |
| DIA Ø | DIAMETER |
| DB | DRY BULB |
| EA | EXHAUST AIR |
| EDB | ENTERING DRY BULB |
| ECH | ELECTRIC CABINET HEATER |
| EAT | ENTERING AIR TEMPERATURE |
| E | |
| EX | EXISTING |
| EW | ENTERING WATER TEMPERATURE |
| EWB | ENTERING WET BULB |
| EUH | ELECTRIC UNIT HEATER |
| ET | EXPANSION TANK |
| ER | EXHAUST REGISTER |
| ELEV | ELEVATOR |
| EL | ELEVATION |
| EHC | ELECTRIC HEATING COIL |
| EG | EXHAUST GRILLE |
| EFF | EFFICIENCY |
| EF | EXHAUST FAN |
| EW | ELECTRIC WATER HEATER |
| EWC | ELECTRIC WATER COOLER |
| F | |
| FDC | FIRE DEPARTMENT CONNECTION |
| FD | FLOOR DRAIN OR FIRE DAMPER |
| FCC | FIRE CONTROL CENTER |
| FC | FLEXIBLE CONNECTION |
| FBO | FURNISHED BY OTHERS |
| 'F | DEGREES FAHRENHEIT |
| FU | FIXTURE UNIT |
| FTR | FIN TUBE RADIATION |
| FT | FEET |
| FSD | COMBINATION FIRE AND SMOKE DAMPER |
| FS | FLOOR SWITCH OR FLOOR SINK |
| FP | FUEL OIL PUMP OR FIRE PUMP |
| FOV | FUEL OIL VENT PIPING |
| FOS | FUEL OIL SUPPLY PIPING |
| FOR | FUEL OIL RETURN PIPING |
| FLR | FLOOR |
| FLA | FULL LOAD AMPERES |
| FHC | FIRE HOSE CABINET |
| G | |
| GLY | GLYCOL |
| GAL | GALLONS |
| G | |
| GHWS | GLYCOL HOT WATER SUPPLY |
| GCWS | GLYCOL CHILLED WATER SUPPLY |
| GHWR | GLYCOL HOT WATER RETURN |
| GCWR | GLYCOL CHILLED WATER RETURN |
| GV | GATE VALVE |
| GPM | GALLONS PER MINUTE |
| H | |
| HB | HOSE BIBB |
| HW | HOT WATER |
| HVU | HEATING AND VENTILATION UNIT |
| HWR | HOT WATER RETURN |
| HWS | HOT WATER SUPPLY |
| HC | HEATING COIL |
| HP | HORSEPOWER |
| HWC | HOT WATER CIRCULATION |

| | |
|----------|---|
| I | |
| IJS | IN JOIST SPACE |
| IN | INCHES |
| ID | INSIDE DIMENSION |
| IA | INSTRUMENT AIR |
| J | |
| JS | JANITOR'S SINK |
| JP | JOCKEY PUMP |
| L | |
| LWT | LEAVING WATER TEMPERATURE |
| LVR | LOUVER |
| LSD | LINEAR SLOT DIFFUSER (CEILING, WALL, SILL, & FLOOR) |
| LDR | LEADER |
| LBS | POUNDS |
| LAT | LEAVING AIR TEMPERATURE |
| L | LAVATORY |
| M | |
| MUA | MAKE UP AIR UNIT |
| MS | MOP SINK |
| MOD | MOTOR OPERATED DAMPER |
| MIN | MINIMUM |
| MH | MANHOLE |
| MCC | MOTOR CONTROL CENTER |
| MBH | THOUSAND BTU PER HOUR |
| MAT | MIXED AIR TEMPERATURE |
| MAX | MAXIMUM |
| MA | MEDICAL AIR |
| MA IN | MEDICAL AIR INTAKE |
| N | |
| NTS | NOT TO SCALE |
| NO | NORMALLY OPEN |
| NIC | NOT IN CONTRACT |
| NFA | NET FREE AREA |
| NC | NORMALLY CLOSED |
| N/E | NEW TO EXISTING CONNECTION |
| N2O | NITROUS OXIDE |
| N | NITROGEN |
| O | |
| OS&Y | OUTSIDE SCREW & YOKE GATE VALVE |
| OST | OVERFLOW STORM PIPING |
| OD | OUTSIDE DIMENSION |
| ODB | OPOSED BLADE DAMPER |
| OA | OUTSIDE AIR |
| OX | OXYGEN |
| P | |
| PSIG | POUNDS PER SQUARE INCH (GAUGE) |
| PSI | POUNDS PER SQUARE INCH |
| PRV | PRESSURE REDUCING VALVE OR POWER ROOF VENT |
| PV | POST INDICATING VALVE |
| PHC | PREHEAT COIL |
| PG | PRESSURE GAUGE |
| PFHX | PLATE AND FRAME HEAT EXCHANGER |
| P/FT | PITCH PER FOOT |
| PD | PRESSURE DROP OR PUMP DISCHARGE |
| P | PUMP |
| R | |
| RTU | ROOF TOP UNIT |
| RPM | REVOLUTIONS PER MINUTE |
| RAF | RETURN AIR FAN |
| RD | ROOF DRAIN |
| RA | RETURN AIR |
| RO | REVERSE OSMOSIS WATER |
| S | |
| SPKR | SPRINKLER |
| SP | STATIC PRESSURE OR SUMP PUMP |
| SF | SUPPLY FAN OR SQUARE FEET |
| SENS | SENSIBLE |
| SE | SEWAGE EJECTOR |
| SD | SMOKE DAMPER OR SMOKE DETECTOR |
| SA | SUPPLY AIR |
| S | SINK |
| ST | STORM PIPING OR SOUND TRAP (SOUND ATTENUATOR) |
| SS | SERVICE SINK |
| T | |
| TYP | TYPICAL |
| TS | TAMPER SWITCH |
| TOP | TOP OF PIPE |
| TC-1 | TERMINAL COIL - (COIL NUMBER) |
| U | |
| UR | URINAL |
| UH | UNIT HEATER |
| V | |
| VTR | VENT THRU ROOF |
| VD | VOLUME DAMPER |
| VAV | VARIABLE AIR VOLUME TERMINAL UNIT |
| VAR | VARIABLE |
| VFD | VARIABLE FREQUENCY DRIVE |
| VT | VENT |
| VAC | MEDICAL VACUUM |
| V EX | VACUUM EXHAUST |
| W | |
| WO 12X12 | WALL OPENING (SIZE) |
| WH | WALL HYDRANT |
| WC | WATER CLOSET |
| WB | WET BULB |
| W | SANITARY WASTE |
| WAGD | WASTE ANESTHESIA GAS DISPOSAL |

PLUMBING & MECHANICAL SHEET INDEX

PM01 MECHANICAL SYMBOLS & LEGEND SHEET

PLUMBING
 P100 PLUMBING SITE PLAN
 P200 UNDERGROUND PLUMBING PLAN
 P201 FIRST FLOOR PLUMBING PLAN
 P501 SANITARY & VENT RISER DIAGRAM
 P502 WATER SUPPLY RISER DIAGRAM
 P601 PLUMBING DETAILS
 P801 PLUMBING SCHEDULES

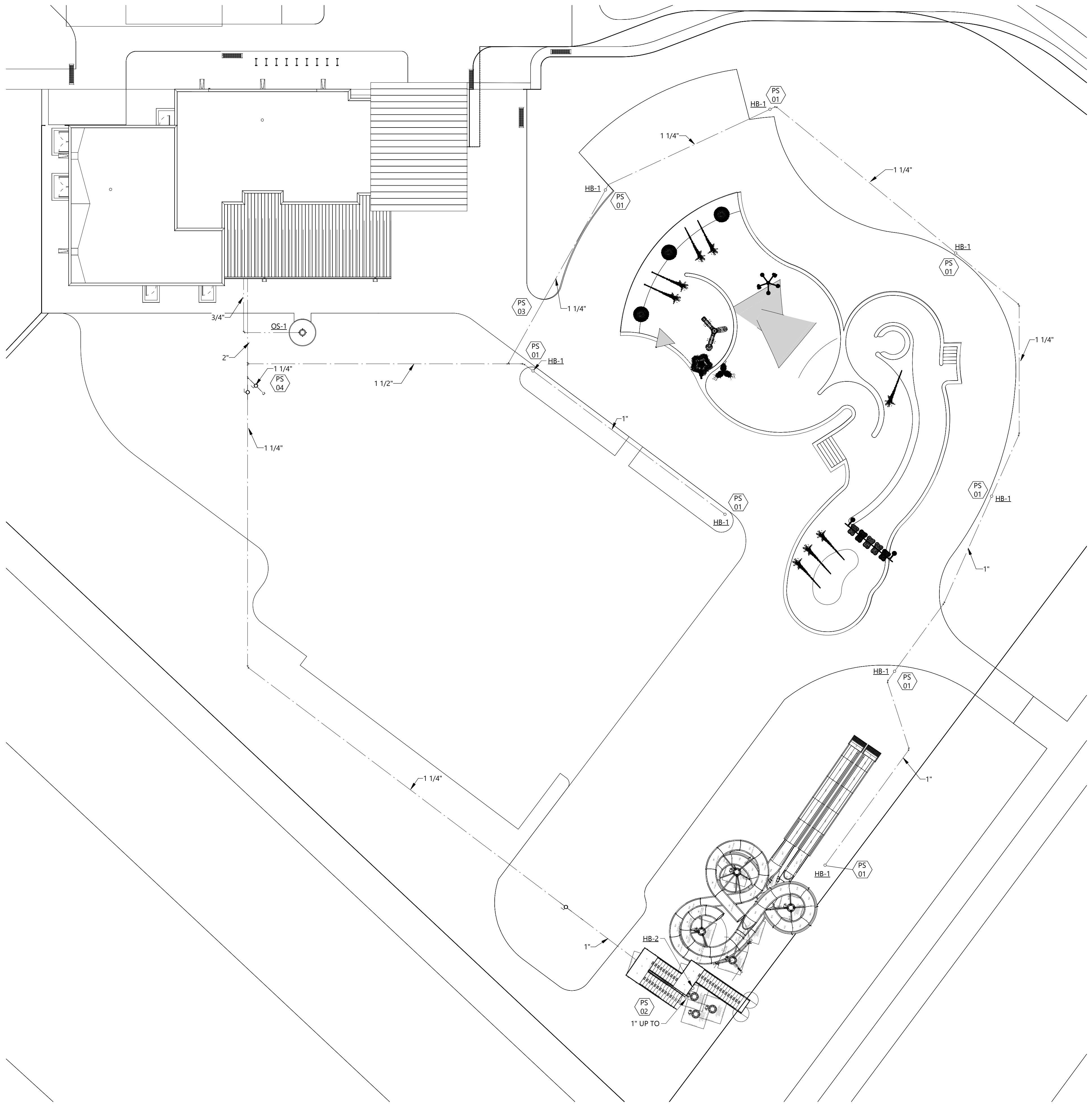
MECHANICAL
 M201 MECHANICAL PIPING PLAN
 M301 FIRST FLOOR VENTILATION PLAN
 M302 ROOF VENTILATION PLAN
 M601 MECHANICAL DETAILS
 M801 MECHANICAL SCHEDULES

KEYNOTE LEGEND:

| | |
|-------|--|
| <<< | INDICATES KEYNOTE ON PLAN |
| PS 01 | PER CODE - HB-1 ARE APPROXIMATELY 75' APART AND 1' BELOW GRADE. HB-1 ARE TO BE FLUSH WITH GRADE. REFER TO INSTALLATION MANUAL. |
| PS 02 | PLUMBING CONTRACTOR TO DETERMINE ON SITE BEST ROUTE FOR PIPING UP TO AND INSIDE WATER SLIDE TOWER, COORDINATE WITH POOL CONTRACTOR. HB-2 SHALL BE MOUNTED 4' OFF FLOOR DECK OF TOWER. |
| PS 03 | ROUTE AROUND PERIMETER OF CONCRETE WALK PATH AREAS. BE AWARE OF STORM WATER PIPING UNDERGROUND AND MAN HOLE COVERS WHEN PIPING 1 1/4" HOSE BIB PIPING, COORDINATE WITH CIVIL CONTRACTOR. |
| PS 04 | 1-1/4" LINE FOR FUTURE TO BE STUBBED UNDER GROUND, VALVE & CAP AT 1' BELOW GRADE |

GENERAL NOTES

- ALL VALVES SHALL BE RECESSED IN AN INGROUND VALVE BOX WITH COVER.
- THE INTENT OF THIS DESIGN IS TO HAVE ALL POOL DECK WATER PIPING TO BE WINTERIZED TO PREVENT FREEZING OF PIPING AND EQUIPMENT.



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CLIENT
 WILLISTON
 COMMUNITY
 BUILDERS

PROJECT DESCRIPTION
 WILLISTON WATER
 WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| | | |
|------|------------------------|------------|
| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| MARK | DESCRIPTION | DATE |

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DRAWING TITLE
 PLUMBING SITE PLAN

P100

1 PLUMBING SITE PLAN
 1/16" = 1'-0"

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CITY **WILLISTON**
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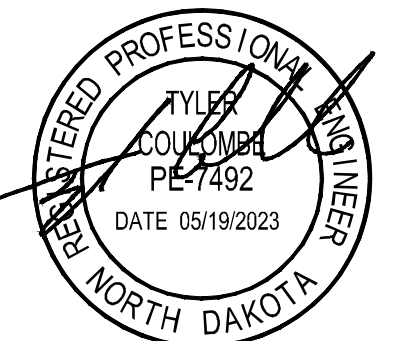
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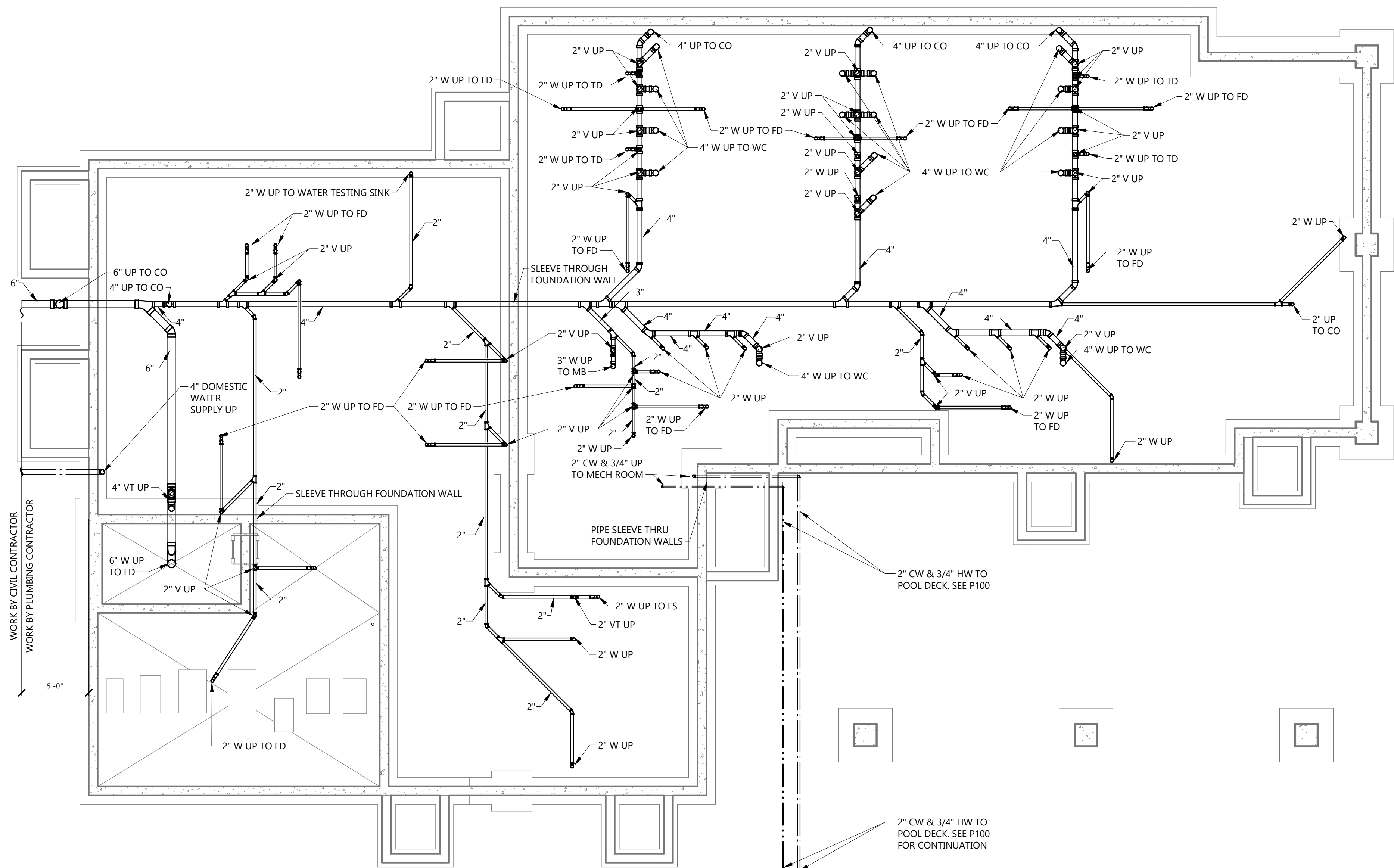
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DRAWING TITLE
**UNDERGROUND
PLUMBING PLAN**

P200



1 UNDERGROUND PLUMBING PLAN
P200 3/16" = 1'-0"



GENERAL NOTES

- REFER TO RISER DIAGRAMS ON P501 & P502 FOR ADDITIONAL PIPE SIZING INFORMATION.
- THE INTENT OF THIS DESIGN IS TO HAVE ALL DOMESTIC WATER AND SANITARY SEWER PIPING TO BE WINTERIZED TO PREVENT FREEZING OF PIPING AND FIXTURES.

KEYNOTE LEGEND:

- ◻ <<< INDICATES KEYNOTE ON PLAN
- PP 01 FEMALE QUICK CONNECT COMPRESSED AIR FITTING



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**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

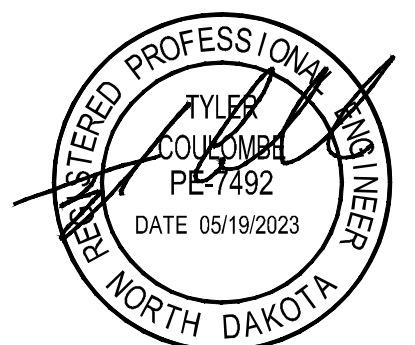
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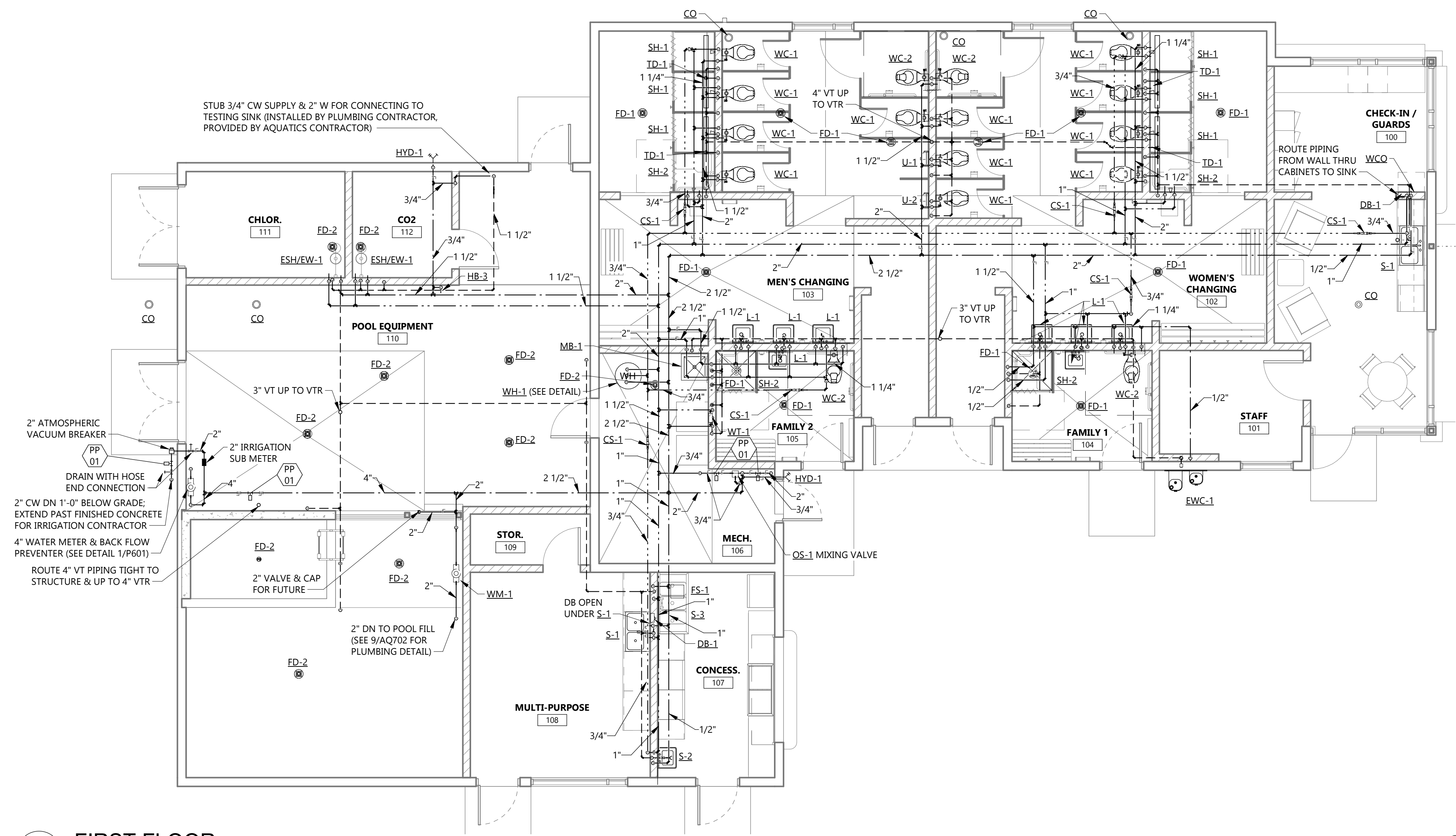
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DRAWING TITLE
**FIRST FLOOR
PLUMBING PLAN**

P201



1 FIRST FLOOR
P201 3/16" = 1'-0"



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STATE **ND**

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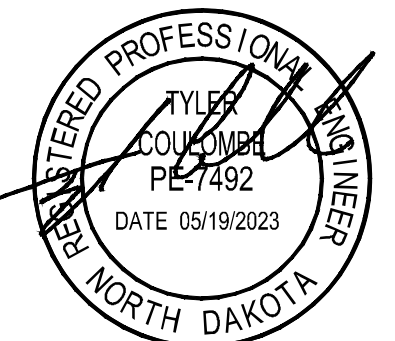
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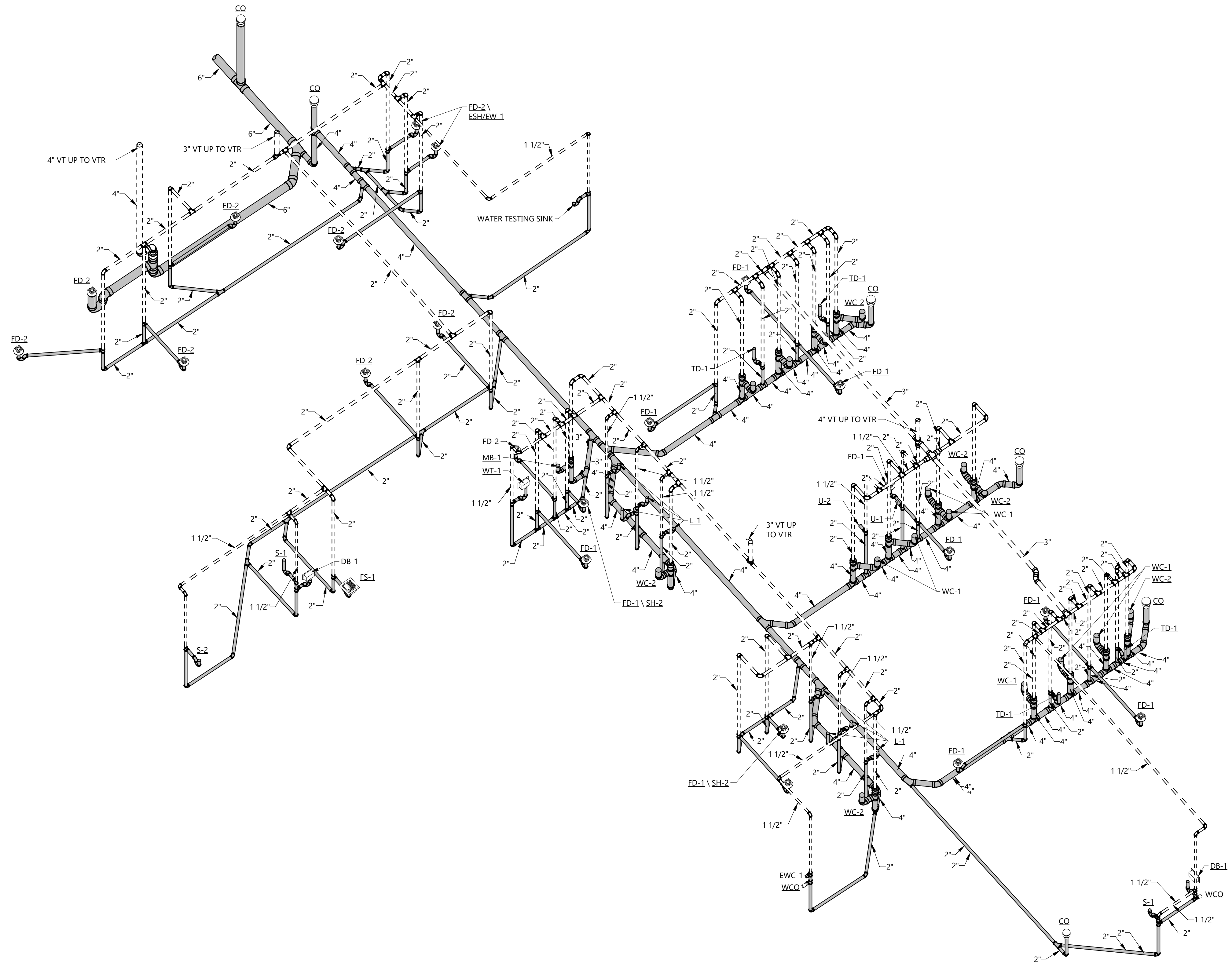
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DRAWING TITLE
**SANITARY & VENT
RISER DIAGRAM**

P501



1 SANITARY WASTE & VENT RISER DIAGRAM
P501 NO SCALE

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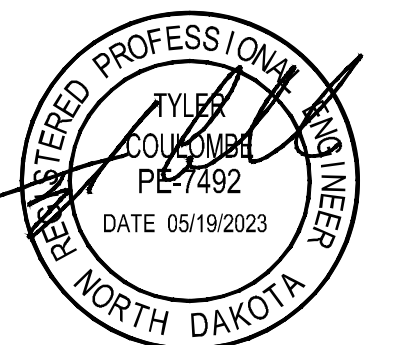
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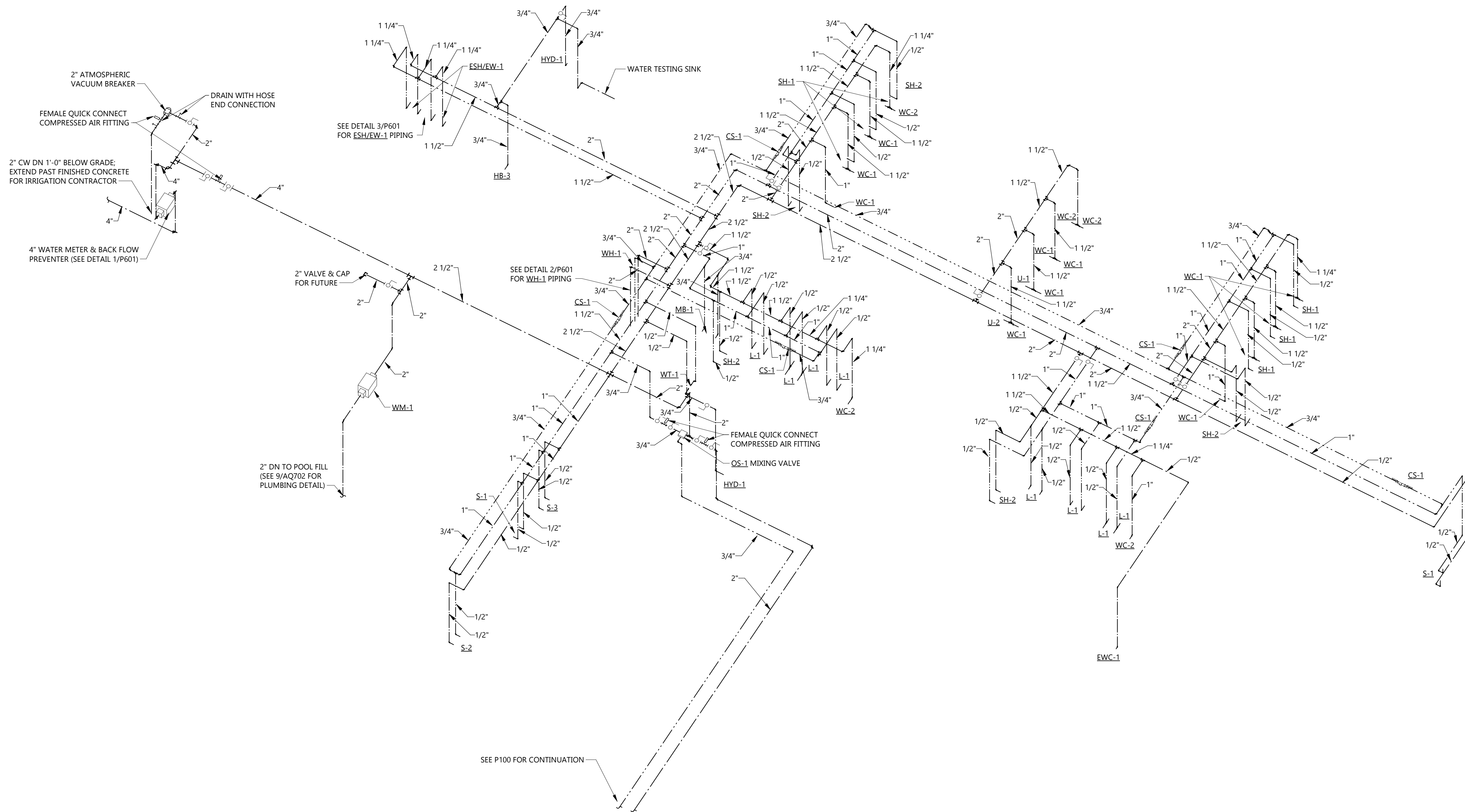
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DRAWING TITLE
**WATER SUPPLY RISER
DIAGRAM**

P502



| | | |
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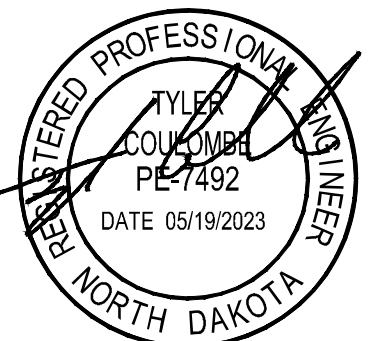
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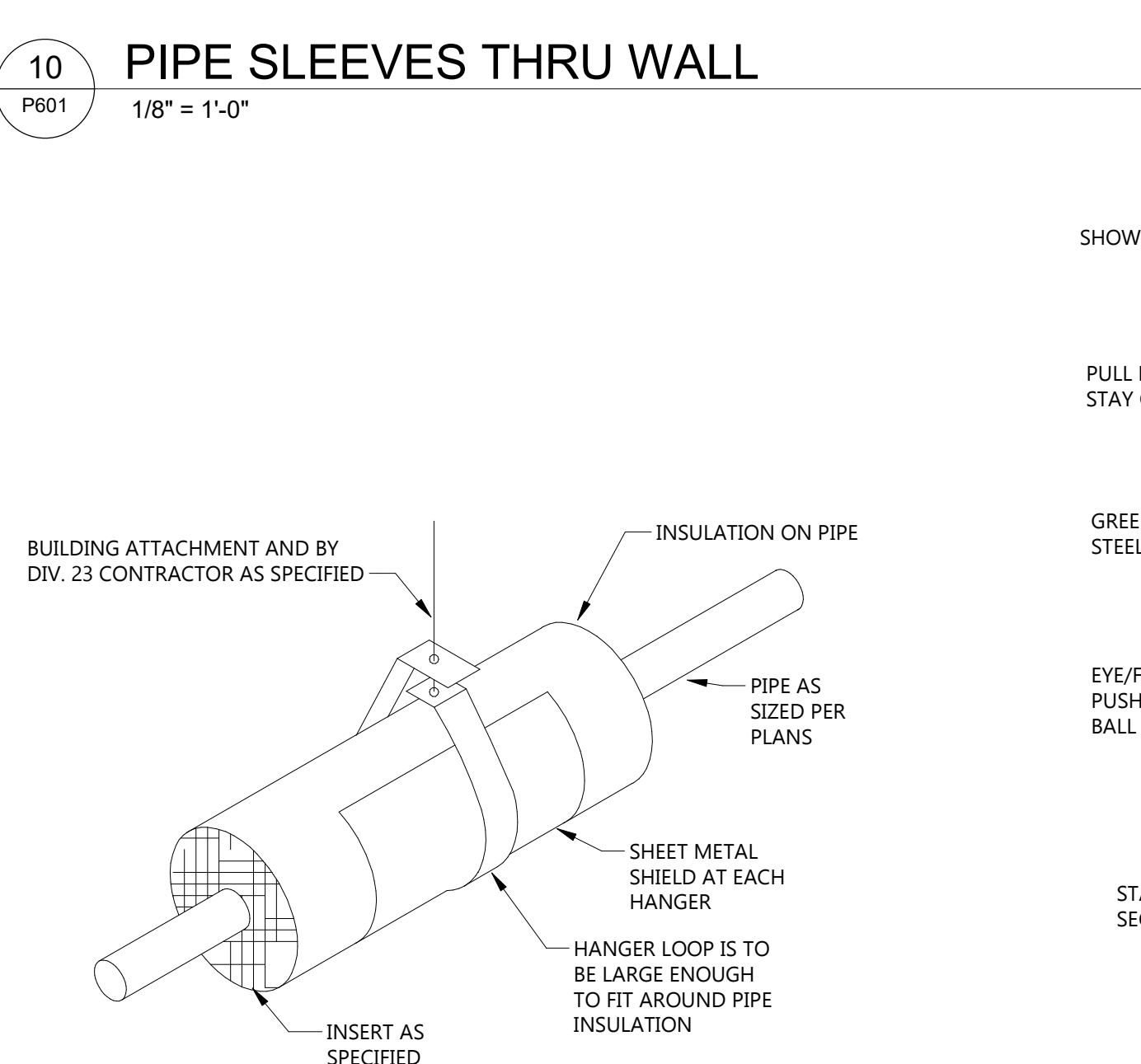
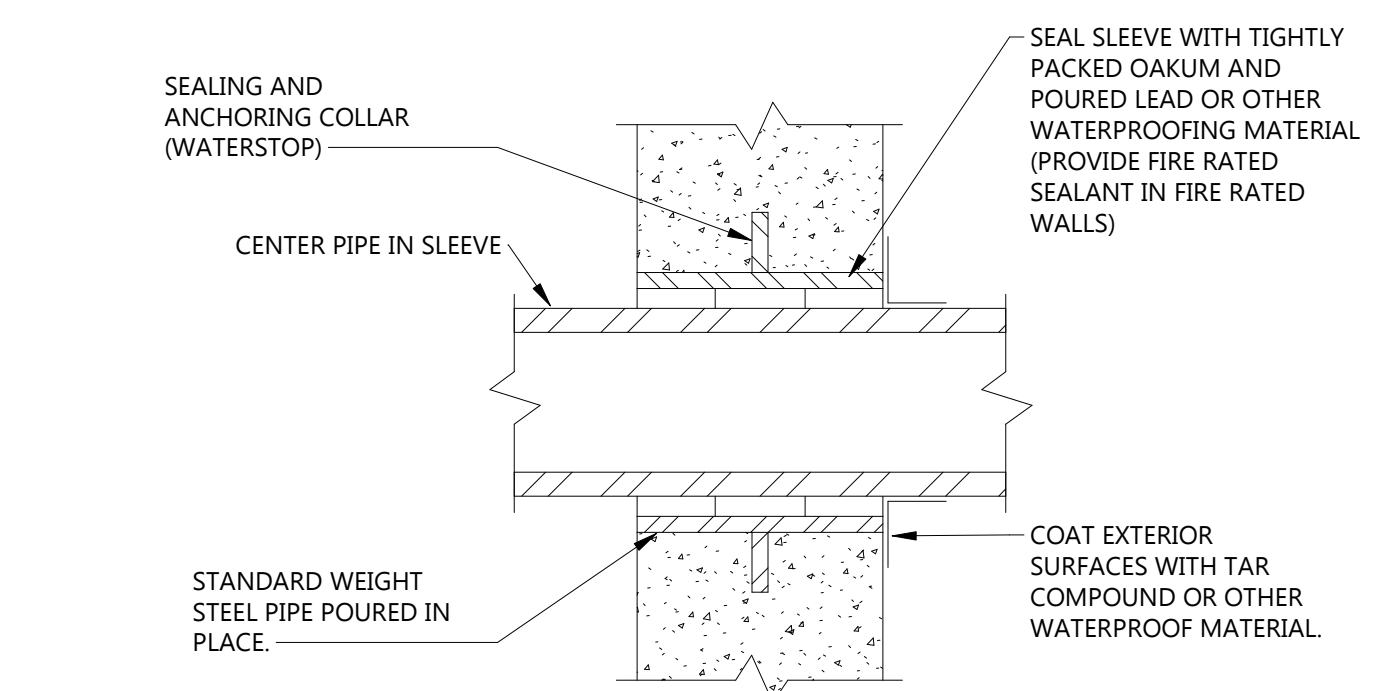
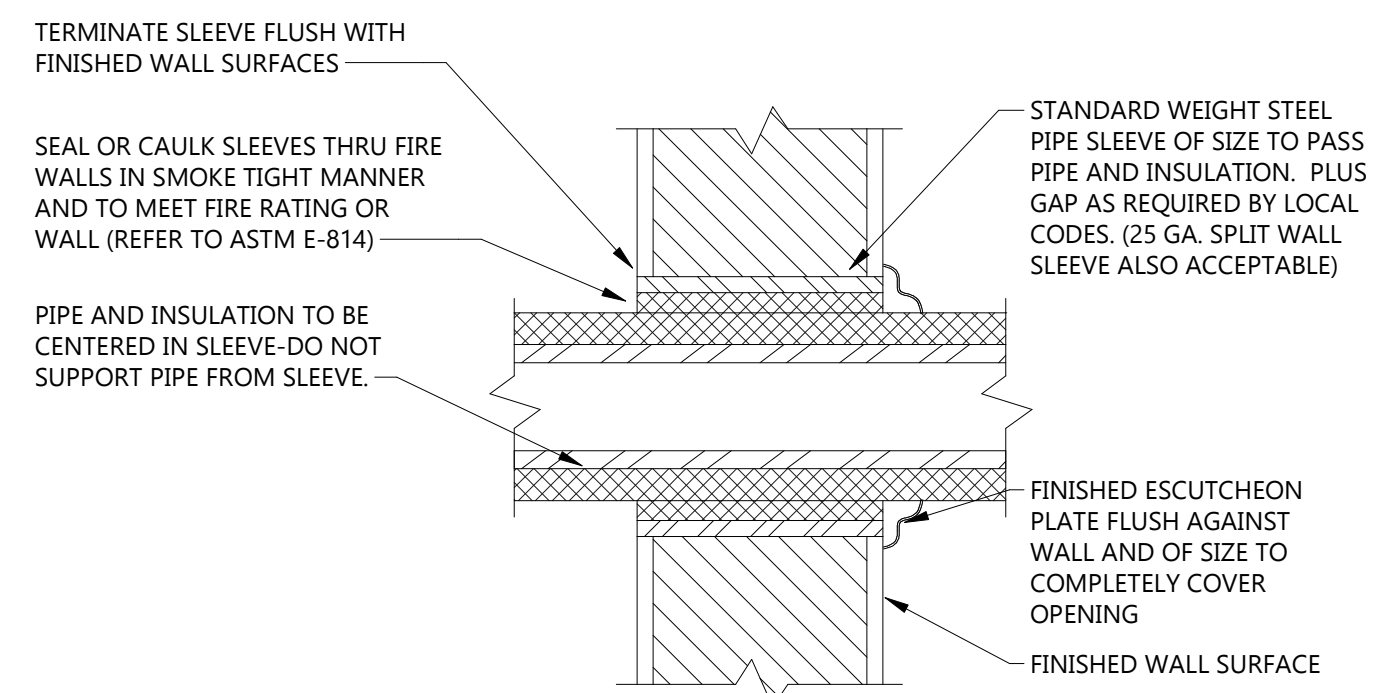
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DRAWING TITLE
PLUMBING DETAILS

P601



9 CONDENSATE DRAIN BOX DETAIL
NOT TO SCALE

8 CONCENTRIC WALL COMBUSTION/INTAKE DETAIL
NO SCALE

6 WATER HEATER GAS CONNECTION DETAIL
NO SCALE

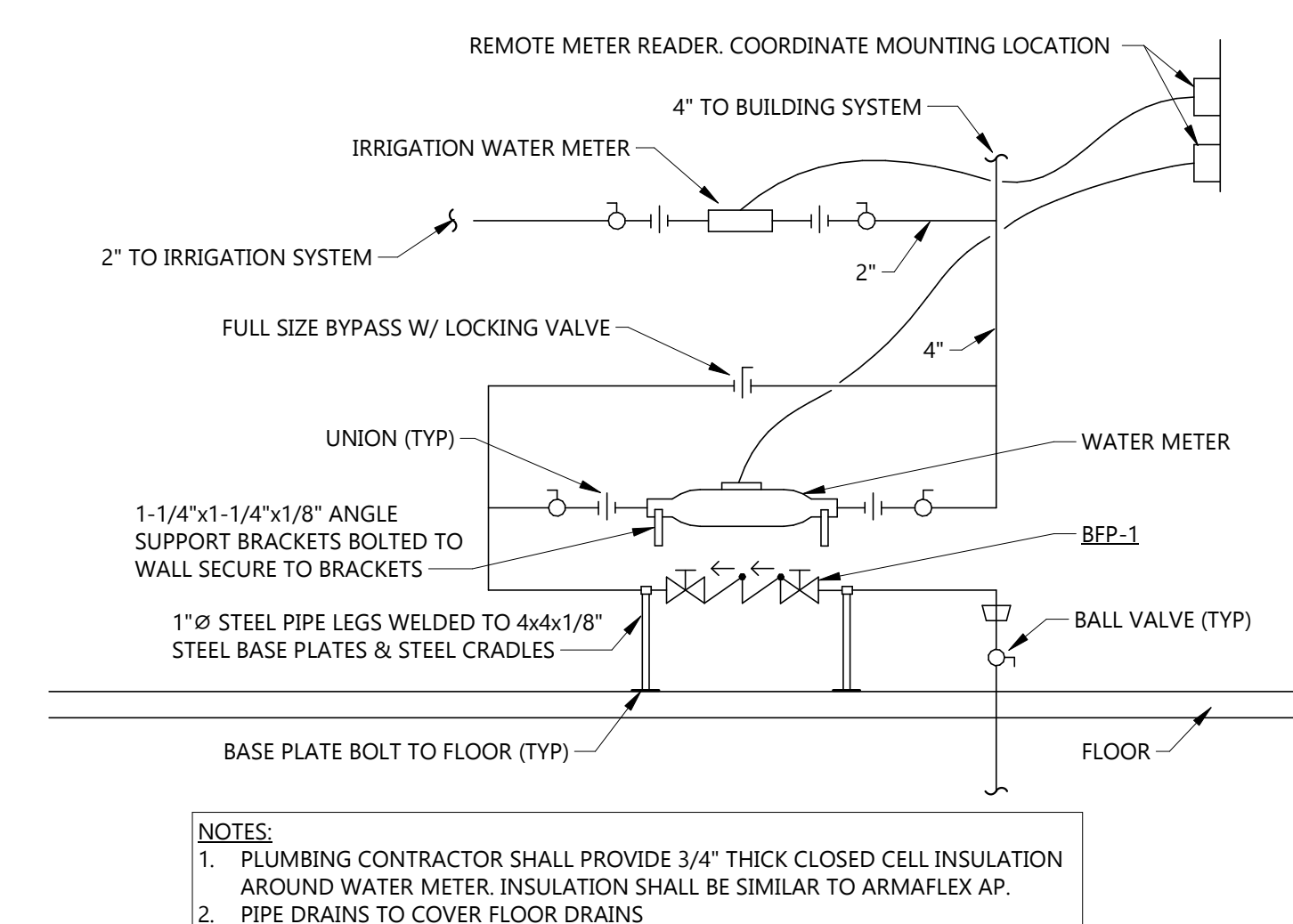
5 HB-3 DETAIL
NOT TO SCALE

7 CIRCUIT SOLVER ASSEMBLY DETAIL
NOT TO SCALE

3 EMERGENCY SHOWER/EYE WASH
NOT TO SCALE

2 SINGLE WATER HEATER PIPING DETAIL
NOT TO SCALE

1 WATER METER & BACKFLOW PREVENTER PIPING DETAIL
NOT TO SCALE



NOTES:
1. PLUMBING CONTRACTOR SHALL PROVIDE 3/4" THICK CLOSED CELL INSULATION AROUND WATER METER. INSULATION SHALL BE SIMILAR TO ARMAFLEX AP.
2. PIPE DRAINS TO COVER FLOOR DRAINS

PLUMBING FIXTURE SCHEDULE

| ITEM NO. | MANUFACTURER | MODEL NO. | DESCRIPTION | CONNECTION - INCHES | | | | REMARKS |
|-----------|------------------------------|---|---|---------------------|--------|------|--------|--|
| | | | | WASTE | VENT | CW | HW | |
| WC-1 | AMERICAN STANDARD SLOAN | MADERA FLOWISE 3451.001 G2 8111-1.28 | FLOOR MOUNT, VITREOUS CHINA, TOP SPUD FLUSH VALVE, ELONGATED BOWL, CHINA BOLT CAPS WITH RETAINERS | 4" | 2" | | | STANDARD MOUNTING HEIGHT 10 YEAR LONG LIFE BATTERY PACK |
| WC-2 | AMERICAN STANDARD SLOAN | MADERA FLOWISE 3043.001 G2 8111-1.28 | SENSOR OPERATED, BATTERY POWERED, 1.28 GPF, PISTON FLUSH VALVE, MANUAL FLUSH OVERRIDE, CHROME PLATED ELONGATED, OPEN FRONT, SELF-SUSTAINING CHECK HINGE | 4" | 2" | 1" | | WHITE SOLID PLASTIC, SS HINGE & POSTS MOUNT 16-1/2" FLOOR TO RIM FOR ADA COMPLIANCE 10 YEAR LONG LIFE BATTERY PACK |
| U-1 | AMERICAN STANDARD SLOAN | 9400SSCT WASHBROOK 6590.001EC G2 8186-0.5-E | ELONGATED, OPEN FRONT, SELF-SUSTAINING CHECK HINGE WALL HUNG, TOP SPUD, VITREOUS CHINA, CHAIR CARRIER | 2" | 1-1/2" | | 3/4" | WHITE SOLID PLASTIC, SS HINGE & POSTS STANDARD MOUNTING HEIGHT 10 YEAR LONG LIFE BATTERY PACK |
| U-2 | AMERICAN STANDARD SLOAN | 9400SSCT WASHBROOK 6590.001EC G2 8186-0.5-E | SENSOR OPERATED, BATTERY POWERED, 0.5 GPF, PISTON FLUSH VALVE, MANUAL FLUSH OVERRIDE, CHROME PLATED | 2" | 1-1/2" | | 3/4" | MOUNT 17" FLOOR TO RIM FOR ADA COMPLIANCE 10 YEAR LONG LIFE BATTERY PACK |
| L-1 | AMERICAN STANDARD CHICAGO | LUCERNE 0356.421 E80-A11A-11ABCP | WALL HUNG, VITREOUS CHINA, FRONT OVERFLOW, SINGLE HOLE, CONCEALED ARM SUPPORT, CHAIR CARRIER, BRASS P-TRAP | 1-1/2" | 1-1/2" | | 1/2" | MOUNT 34" FLOOR TO RIM FOR ADA COMPLIANCE 0.5 GPM NON-AERATING FLOW 10 YEAR LONG TERM POWER SUPPLY 2.1 GPM @ 45 PSI TWO BOWL, 33" x 22" x 10-1/8" 1.5 GPM NON-AERATING FLOW |
| S-1 | LAWLER ELKAY MOEN | TMM-1070 DLR332210 7590 | UNDER SINK THERMOSTATIC MIXING VALVE DROP-IN, STAINLESS STEEL, 18 GAUGE, UNDERCOATED, SATIN FINISH | 2" | 1-1/2" | 1/2" | 1/2" | 1.5 GPM NON-AERATING FLOW SINGLE BOWL, 17" x 15" x 11" 1.5 GPM NON-AERATING FLOW |
| S-2 | ELKAY | SEHS-17X | WALL MOUNT, STAINLESS STEEL, 20 GAUGE, UNDERCOATED | 2" | 1-1/2" | 1/2" | 1/2" | THREE BOWL, 57" x 27-1/2" x 14" 36" MINIMUM CABINET SIZE 1.5 GPM NON-AERATING FLOW |
| S-3 | ELKAY CHICAGO | WNSF83544 521-317XKABCP | FLOOR MOUNT, TRIPLE COMPARTMENT SINK, 14 GAUGE STAINLESS STEEL WITH BUFFED SATIN FINISH | 2" | 1-1/2" | | 1/2" | CHROME PLATED, 4" WRISTBLADE HANDLES, RIGID/SWING DOUBLE-BEND SPOUT, 4" CENTERS |
| SH-1 | DELTA | T13H132 | PRESSURE BALANCED MIXING VALVE, 1.5 GPM FLOW, REFER TO MANUFACTURERS INSTALLATION GUIDE FOR HARDWARE MOUNTING LOCATIONS & HEIGHTS | | | | 1/2" | ENTIRE ASSEMBLY TO BE CHROME PLATED |
| SH-2 | DELTA | T13H332 | PRESSURE BALANCED MIXING VALVE, HANDHELD SHOWER WITH INLINE VACUUM BREAKER, 24" SLIDE BAR, LEVER HANDLE, 60" HOSE, DIVERTER VALVE, 1.5 GPM FLOW, REFER TO MANUFACTURERS INSTALLATION GUIDE FOR HARDWARE MOUNTING LOCATIONS & HEIGHTS | | | | 1/2" | ENTIRE ASSEMBLY TO BE CHROME PLATED ADA COMPLIANT HANDLE AND SLIDE BAR |
| MB-1 | MOLDED-STONE CHICAGO | 2424 897-CRCF | FLOOR SET, MOLDED STONE, STAINLESS STEEL WALL GUARDS, VINYL BUMPER GUARDS, 30" HOSE & BRACKET | 3" | 1-1/2" | | 3/4" | MOP HOLDER, FLAT STAINLESS STEEL STRAINER, COLOR SHALL BE WHITE |
| EWC-1 | ELKAY | LZSTL8WSLP | CHROME PLATED, WALL HUNG, INTEGRAL VACUUM BREAKER, PAIL HOOK, WALL BRACE, 3/4" THREADED OUTLET | 1-1/2" | 1-1/2" | 1/2" | | ADA COMPLIANT |
| HYD-1 | WOODFORD | MODEL B67 | WALL HUNG, DUAL STATION WATER COOLER, STAINLESS STEEL BASIN, TWO TONE GRAY UPPER & LOWER SHROUDS, BOTTLE FILLING STATION, 8.0 GPH CHILLING CAPACITY, FILTER INCLUDED | | | | 3/4" | LOOSE KEY OPERATES HYDRANT, CENTER HYDRANT IN CMU |
| WT-1 | OATEY | 38981 | AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT, DUAL CHECK BACKFLOW PREVENTER, LOCKABLE COVER | 2" | 1-1/2" | 1/2" | 1/2" | FIELD VERIFY MOUNTING HEIGHT |
| HB-1 | JAY R. SMITH MFG. | 5810-SAP-H-PB | WASHING MACHINE SUPPLY/DRAIN BOX, QUARTER TURN BALL VALVES, BOTTOM SUPPLY, WATER HAMMER ARRESTORS | | | | 3/4" | |
| HB-2 | JAY R. SMITH MFG. | 5675-H-CP | GROUND HYDRANT WITH HINGED COVER POLISHED BRONZE BOX, INTEGRAL VACUUM BREAKER, 3/4" THREADED OUTLET | | | | 3/4" | |
| HB-3 | JAY R. SMITH MFG. | 5670-H-CP | CHROME WALL FAUCET WITH INTEGRAL VACUUM BREAKER, 3/4" THREADED OUTLET | | | | 3/4" | |
| ESH/ EW-1 | HAWS AXION | 8336 9201E | CHROME WALL FAUCET WITH INTEGRAL VACUUM BREAKER, 3/4" THREADED OUTLET EMERGENCY SHOWER/EYEWASH, FLOOR MOUNTED, BARRIER FREE, POSITIVE HOT WATER SHUTOFF, STAINLESS STEEL ROUND BOWL, 3.7 GPM LAMINAR FLOW FOR EYEWASH, 20 GPM FLOW FOR SHOWER | | | | 1-1/4" | PROVIDE WITH DUST COVER, MODEL 9102 |
| FD-1 | ZURN | Z415B | EMERGENCY THERMOSTATIC MIXING VALVE, HIGH TEMP LIMIT STOP, AUTOMATIC RESET, COMPRESSION FITTINGS, ONBOARD TEMPERATURE ADJUSTMENT, 140° MAX INLET TEMP, VALVE BODY IN RECESSED CABINET | | | | 1-1/4" | 40° CW INLET, 140° HW INLET, 85° TEMPERED OUTLET, 20 GPM FLOW, MOUNT ABOVE FIXTURE AT EYE LEVEL |
| FD-2 | ZURN | Z415I | CAST IRON BODY, ADJUSTABLE COLLAR, CHROME PLATED BRONZE ROUND STRAINER | | | | | SEE PLANS FOR PIPE SIZES PROVIDE JAY R. SMITH QUAD CLOSE TRAP SEAL OR SIMILAR |
| FS-1 | ZURN | Z1910 | CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE ROUND STRAINER, INSTALL WITH RECESS FLUSH WITH FLOOR | | | | | SEE PLANS FOR PIPE SIZES PROVIDE JAY R. SMITH QUAD CLOSE TRAP SEAL OR SIMILAR |
| CO | ZURN | Z1400 | STAINLESS STEEL, 9" x 8" x 6" SUMP, STAINLESS STEEL INTERIOR DOME, 1/2 GRATE SUITABLE FOR APPLICATION | | | | | SEE PLANS FOR PIPE SIZES |
| TD-1 | ZURN | ZS880-60 | CAST IRON BODY, ADJUSTABLE COLLAR, NICKEL BRONZE TOP, ABS TAPERED PLUG | | | | | SEE PLANS FOR PIPE SIZES |
| DB-1 | OATEY | 38980 | 6" WIDE, 16 GAUGE 304 STAINLESS STEEL TRENCH DRAIN, APPROX. 60" LENGTH, NO-HUB BOTTOM OUTLET, PROVIDE W BASKET STRAINER | 2" | 1-1/2" | | | PROVIDE WITH WAVE GRATE (WG), DRAIN SHALL SLOPE TO CENTER OUTLET |
| OS-1 | MURDOCK LAWLER | M-PCS24-GB 410-CAB | RECESSED DRAIN BOX, DEEP SEAL P-TRAP, PROVIDE W COVER POOL SHOWER WITH TWO STANDARD HEIGHT STATIONS. PUSHBUTTON OPERATION AND TIMED SHUT-OFF, UNDERGROUND FREEZE-RESISTANT VALVE FOR THREE PUSHBUTTONS, UNIT SHOULD BE PREPARED AND HYDROSTATICALLY TESTED, CHROME PLATED SHOWER HEADS, PROVIDE W/ TWO VERTICAL GRAB BARS AND THIRD LOWER SHOWER HEAD AT 48" THERMOSTATIC MIXING VALVE, 5 GPM FLOW AT 5 PSI PRESSURE DROP, SURFACE MOUNTED CABINET, REFER TO MANUFACTURERS INSTALLATION GUIDE FOR HARDWARE MOUNTING LOCATIONS & HEIGHTS | | | | 3/4" | FIXTURE TO ACCEPT CONDENSATE FROM HVAC EQUIPMENT COLOR BY ARCHITECT |
| | | | | | | | 3/4" | 40° CW INLET, 120° HW INLET, 100° TEMPERED OUTLET |

NOTES:

1. PROVIDE COLD AND HOT WATER SCREWDRIVER STOPS AT ALL SINKS., LAVATORIES, ELECTRIC WATER COOLERS, ETC.
2. PROVIDE ESCUTCHEONS AT ALL WASTE AND WATER SUPPLIES AT EACH FIXTURE. ESCUTCHEONS SHALL COMPLETELY COVER WALL OPENING.
3. PROVIDE CLEANOUT AT ALL SINKS BELOW P-TRAP.

DIGITAL WATER TEMPERING SCHEDULE

| NUMBER | SERVICE | MFGR. | SERIES | MODEL | SYSTEM CAPACITY | INLET HW . WATER TEMP | INLET CW WATER TEMP. | OUTLET . WATER TEMP | RECIRC WATER TEMP. | HW CONN. | CW CONN. | HW OUTLET | HW-RECIR CONN. | ALERT RELAY | INPUT POWER VOLTS/PHASE | COMMENTS |
|--------|--------------------|--------|--------------------|-----------|--------------------|-----------------------|----------------------|---------------------|--------------------|----------|----------|-----------|----------------|-------------|-------------------------|----------|
| DMV-1 | DOMESTIC HOT WATER | POWERS | INTELLISTATION JR. | LFIS200VL | 48 GPM @ 5PSI DROP | 140° | 40° | 120° | 110° | 2" | 2" | 2" | 3/4" | 30V | 120/1 | 1, 2, 3 |

1. SYSTEM SHALL HAVE SINGLE POINT POWER CONNECTION AND SHALL BE FRAME (UNI-STRUT) MOUNTED FROM FACTORY.
2. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR AS REQUIRED.
3. SYSTEM SHALL BE ASSE 1017 RATED.

PLUMBING PUMP SCHEDULE

| NUMBER | SERVICE | MFGR. | SERIES | MODEL | PUMP TYPE | GPM | TOTAL HEAD | MOTOR CHARACTERISTICS | | | COMMENTS | |
|--------|---------------------------|----------------|--------|--------|-----------|-----|------------|-----------------------|-----|------|----------|---------|
| | | | | | | | | RPM | FLA | LRA | | |
| RCP-1 | DOMESTIC WATER CIRCULATOR | BELL & GOSSETT | NBF | NBF-36 | INLINE | 2 | 6 | 4,600 | 10 | 50.0 | 120/1 | 1, 2, 3 |

1. ITT BELL & GOSSET 100% LEAD-FREE BRONZE PUMP
2. INSTALL WITH ISOLATION VALVES & UNIONS AS REQUIRED FOR PUMP MAINTENANCE.
3. PUMP SHALL BE SUITABLE FOR DOMESTIC POTABLE HOT WATER AND SHALL BE PROVIDED WITH A DISCONNECT SWITCH.

SELF-ACTING THERMOSTATIC BALANCING VALVE SCHEDULE

| ITEM NUMBER | MANUFACTURER | MODEL # | SERVICE | CONNECTION SIZE | SERVICE TEMP (°F) | COMMENTS |
|-------------|----------------|---------------|-------------------------|-----------------|-------------------|----------|
| CS-1 | CIRCUIT SOLVER | CSUAS-3/4-110 | RECIRCULATING HOT WATER | 3/4" | 110 | 1, 2, 3 |

1. ANSI-61 RATED
2. PROVIDE DEVICE COMPLETE WITH ISOLATION VALVES AND UNIONS
3. VALVE SHALL BE SUITABLE FOR DOMESTIC WATER, AS INDICATED BY MANUFACTURER.

WATER METER SCHEDULE

| ITEM NUMBER | MANUFACTURER | MODEL # | SERVICE | CONNECTION SIZE | COMMENTS |
|-------------|--------------|------------------|--------------|-----------------|----------|
| WM-1 | XYLEM | OMNI+ Turbo (T2) | LEISURE POOL | 2" | 1, 2, 3 |

1. ANSI-61 RATED
2. PROVIDE DEVICE COMPLETE WITH ISOLATION VALVES AND UNIONS
3. METER SHALL BE SUITABLE FOR DOMESTIC WATER, AS INDICATED BY MANUFACTURER

WATER HEATER SCHEDULE

| TAG | MANUFACTURER | SERIES | MODEL # | TANK | FUEL | INPUT MBH | RECOVERY @ 100°F RISE | WATER TEMP | VOLTS/ PHASE | COMMENTS |
|------|--------------|----------|----------------|---------|-------------|-----------|-----------------------|------------|--------------|------------------|
| WH-1 | PVI | CONQUEST | 50 L 130A-GCML | 130 GAL | NATURAL GAS | 500 | 588 GPH | 140° | 120/1 | 1, 2, 3, 4, 5, 6 |

1. ASME RATED
2. PIPE RELIEF VALVES OVER FLOOR DRAIN
3. PROVIDE UNIT COMPLETE WITH CONCENTRIC VENT KIT AND INSTALL AS PER MANUFACTURERS INSTRUCTIONS
4. PROVIDE HEATER WITH CONDENSATE NEUTRALIZATION KIT AS PER MANUFACTURES RECOMMENDATIONS FOR CONDENSATE TREATMENT PRIOR TO DISPOSAL
5. ALL VENTING SHALL BY POLYPROPYLENE MATERIAL OR APPROVED EQUAL
6. PROVIDE A BELL & GOSSETT MODEL PTA-30V EXPANSION TANK WITH 15.0 GALLON TANK VOLUME AND 10.0 GALLON ACCEPTANCE VOLUME FOR DOMESTIC WATER HEATING SYSTEM ET-1

BACKFLOW PREVENTER SCHEDULE

| ITEM NUMBER | MANUFACTURER | MODEL # | TYPE | CONNECTION SIZE | COMMENTS |
|-------------|--------------|---------|--------------|-----------------|----------|
| BFP-1 | WATTS | 757 | DOUBLE CHECK | 4" | 1, 2, 3 |

1. AWWA C510 RATED
2. PROVIDE DEVICE COMPLETE WITH ISOLATION VALVES AND UNIONS
3. BACKFLOW PREVENTER SHALL BE SUITABLE FOR DOMESTIC WATER, AS INDICATED BY MANUFACTURER



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WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION

WILLISTON WATER
WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| MARK | DESCRIPTION | DATE |

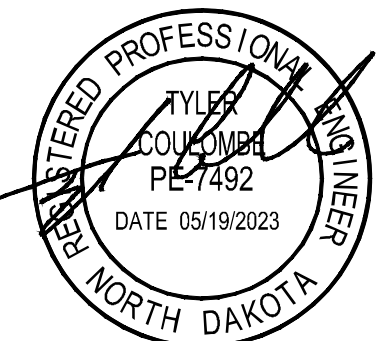
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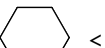
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DRAWING TITLE
PLUMBING SCHEDULES

P801

| KEYNOTE LEGEND: | |
|--|---|
|  | << INDICATES KEYNOTE ON PLAN |
| MP 01 | INSTALL REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS |



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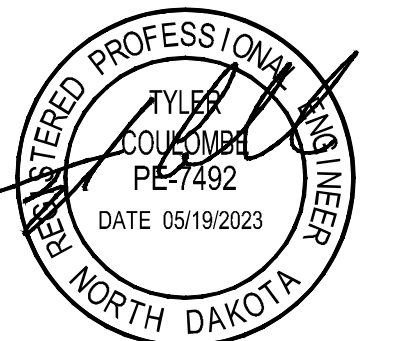
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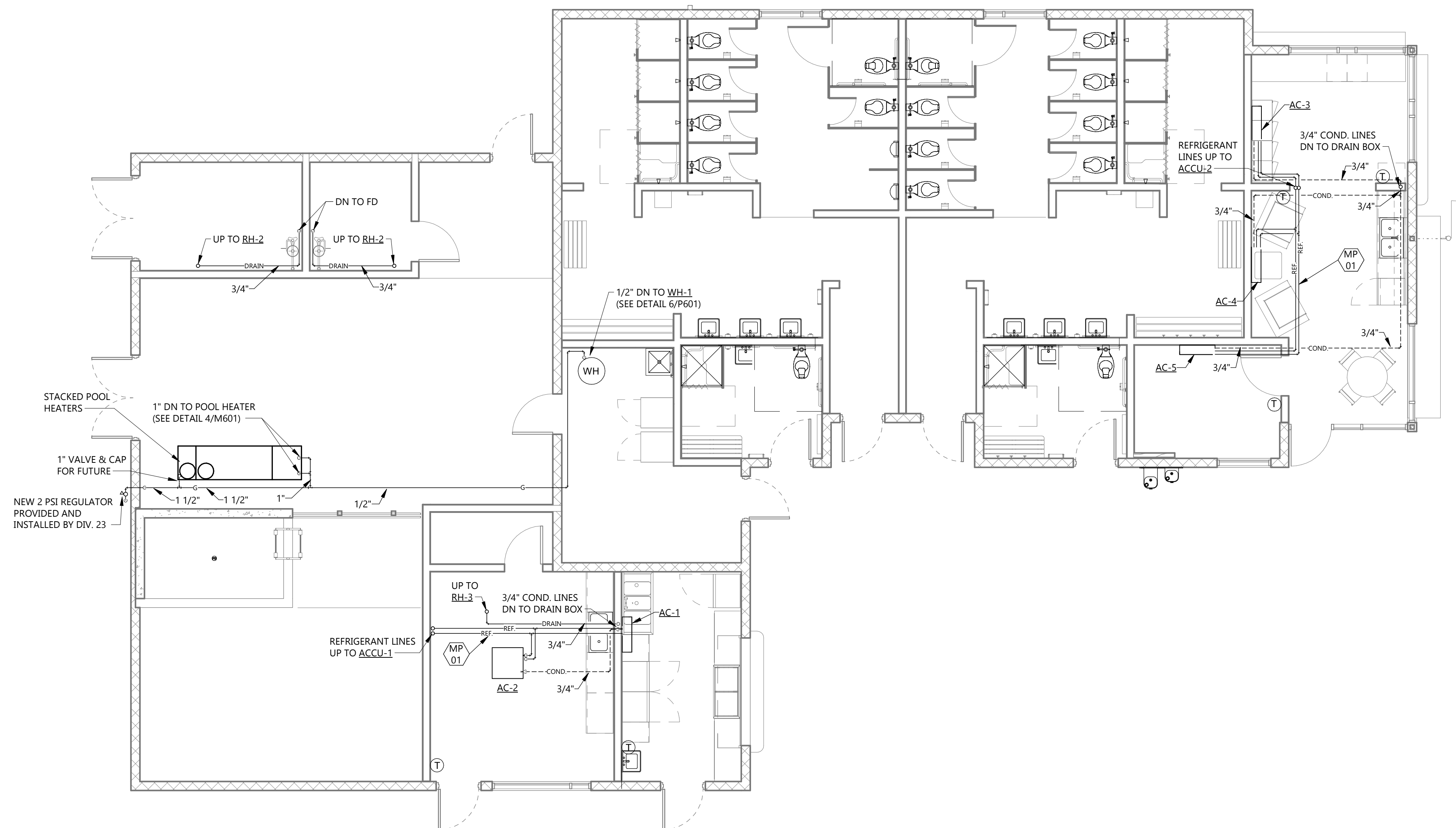
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DRAWING TITLE
MECHANICAL PIPING
PLAN

M201



1 FIRST FLOOR PIPING PLAN
M201 3/16" = 1'-0"

GENERAL NOTES

1. THE INTENT OF THIS DESIGN IS TO HAVE ALL LOUVERS AND OTHER WALL OPENING COVERED IN THE WINTER TO PREVENT SNOW AND OTHER MOISTURE FROM ENTERING THE BUILDING.

KEYNOTE LEGEND:

- <<< INDICATES KEYNOTE ON PLAN
- MV 01 VENT THROUGH ROOF USING 14"Ø TYPE-B DOUBLE-WALL VENT PIPE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- MV 02 ROUTE COMBUSTION AIR THROUGH WALL USING 12"Ø PVC OR 12"Ø INSULATED GALVANIZED VENT PIPE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- MV 03 INSTALL WALLS CAPS ON COMBUSTION AIR INLETS PER MANUFACTURER'S RECOMMENDATIONS. COLOR BY ARCHITECT.



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**WILLISTON WATER
WORLD**

CITY **WILLISTON**
STATE **ND**

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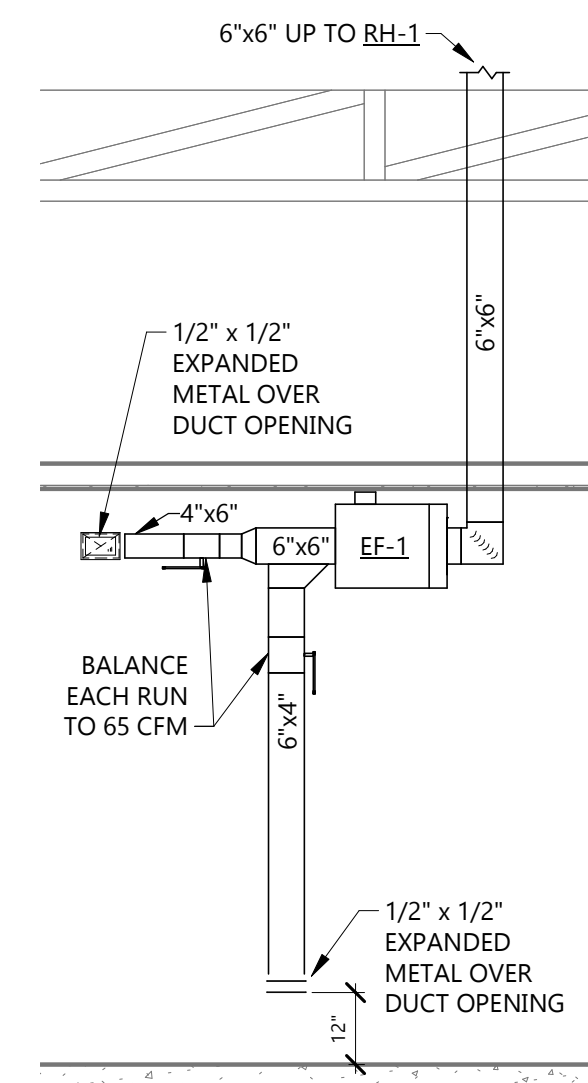
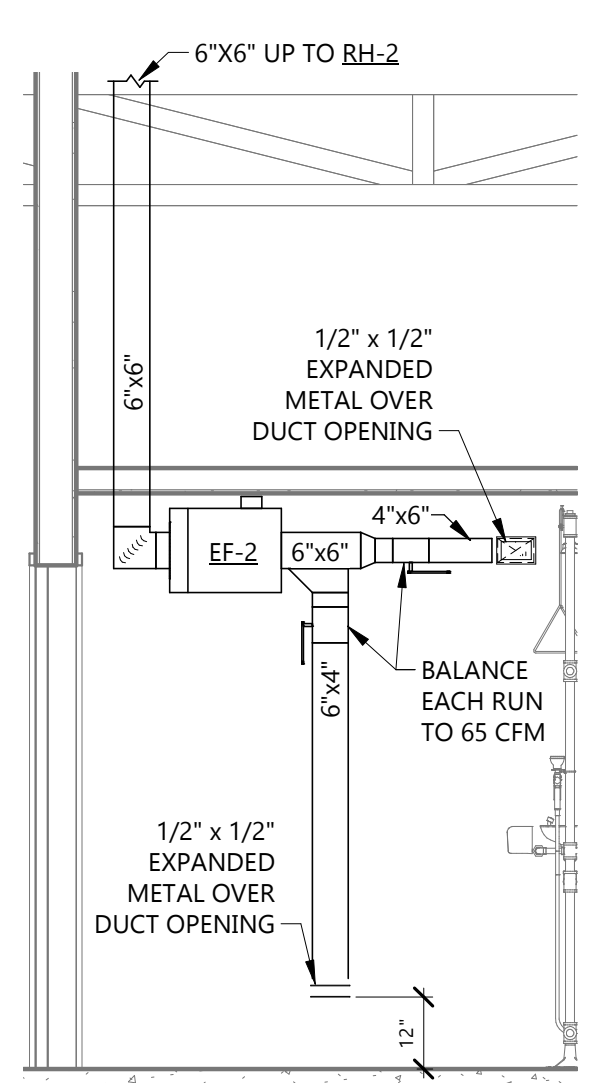
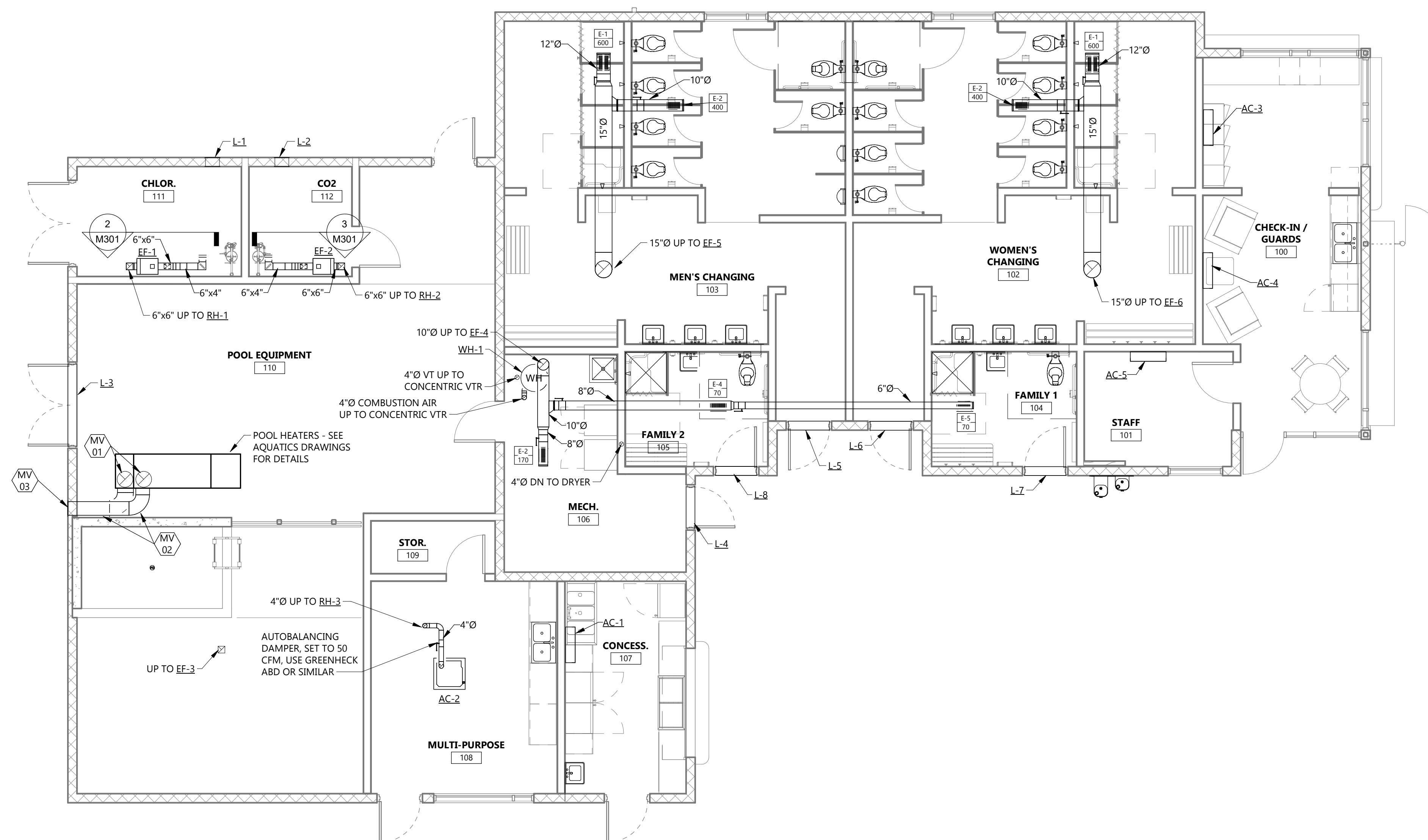
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DRAWING TITLE
**FIRST FLOOR
VENTILATION PLAN**

M301



3 EF-2 SECTION VIEW
M301 3/8" = 1'-0"

2 EF-1 SECTION VIEW
M301 3/8" = 1'-0"

1 FIRST FLOOR VENTILATION PLAN
M301 3/16" = 1'-0"



GENERAL NOTES

1. ALL HVAC EQUIPMENT SHALL BE GREATER THAN 10'-0" AWAY FROM ROOF EDGES.



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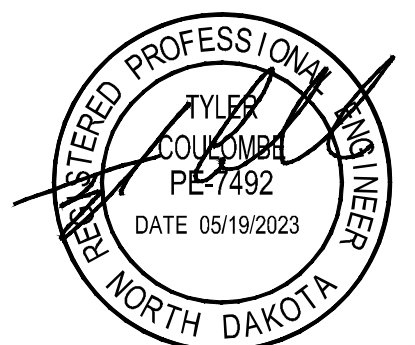
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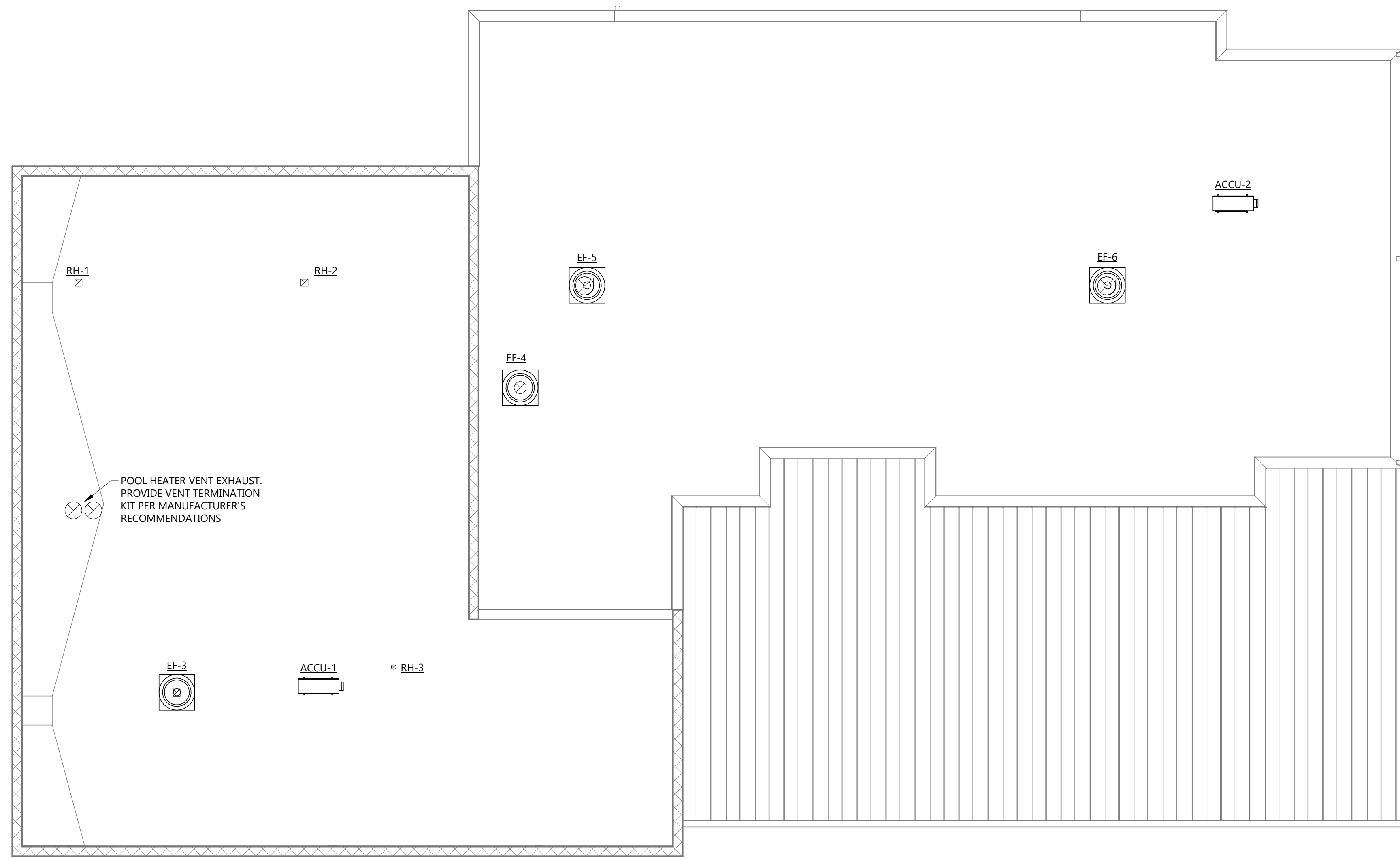
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DRAWING TITLE

**ROOF VENTILATION
PLAN**

M302



1 ROOF VENTILATION PLAN
M302 3/16" = 1'-0"





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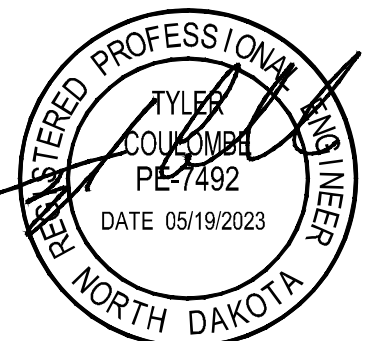
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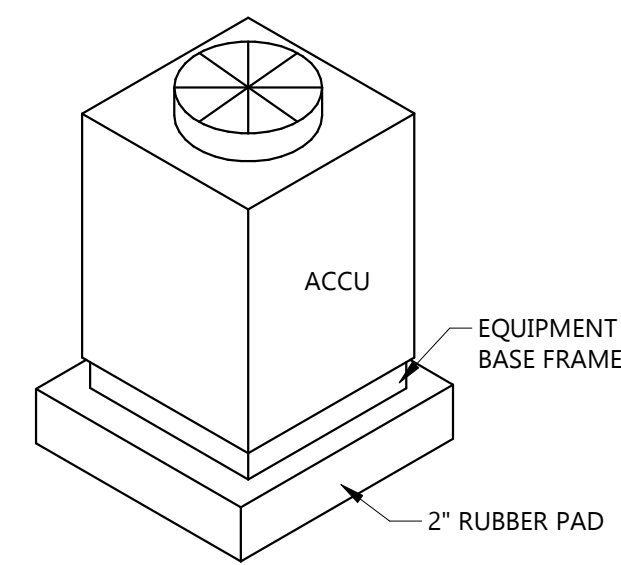
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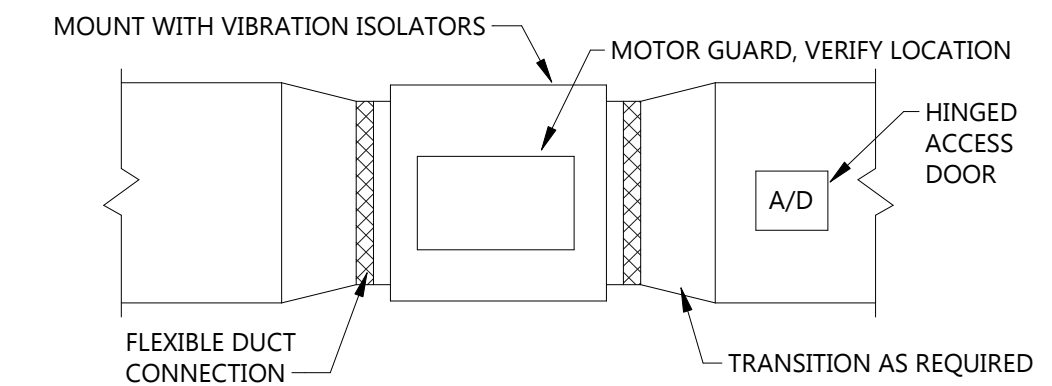


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MECHANICAL DETAILS

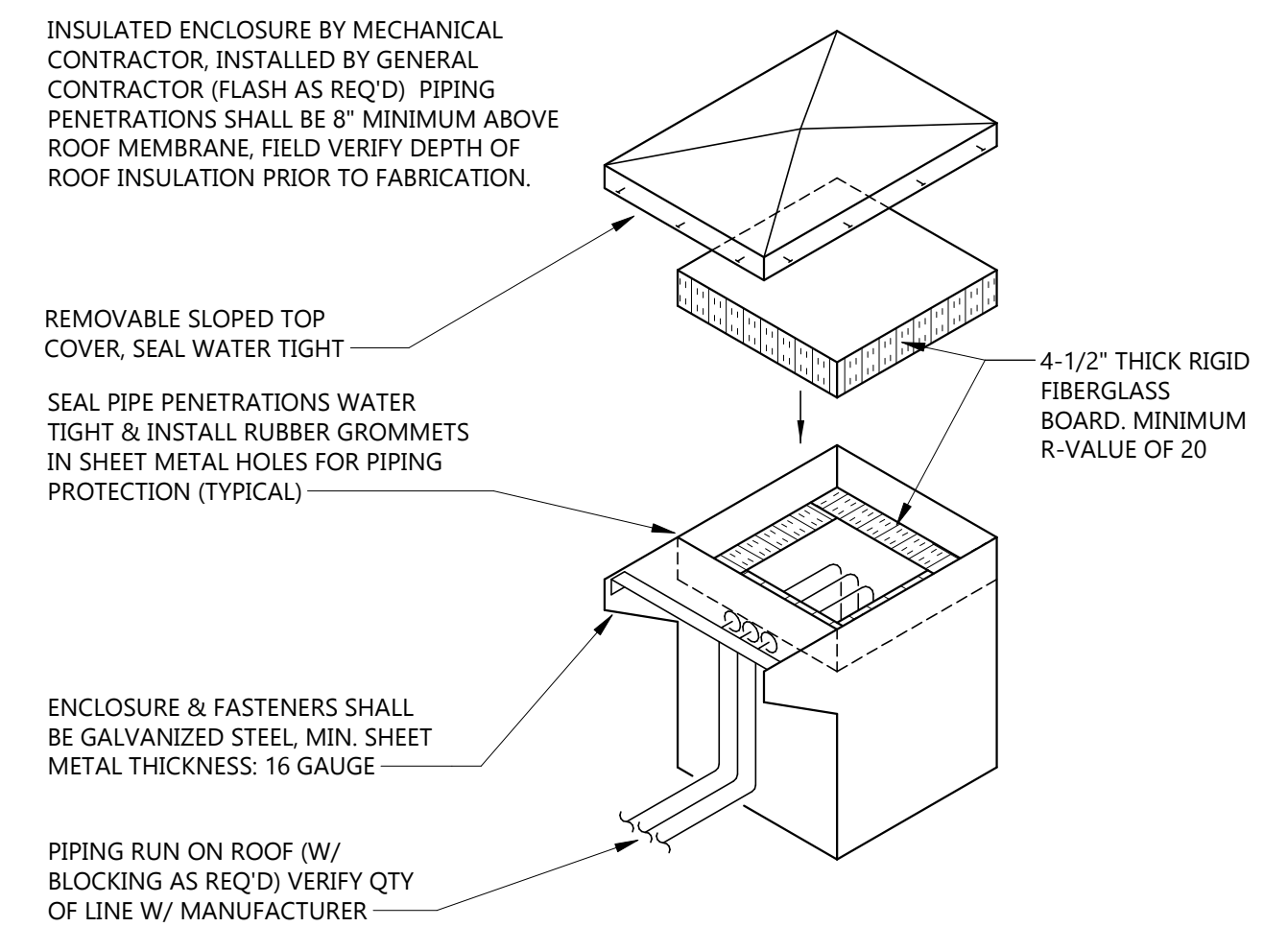
M601



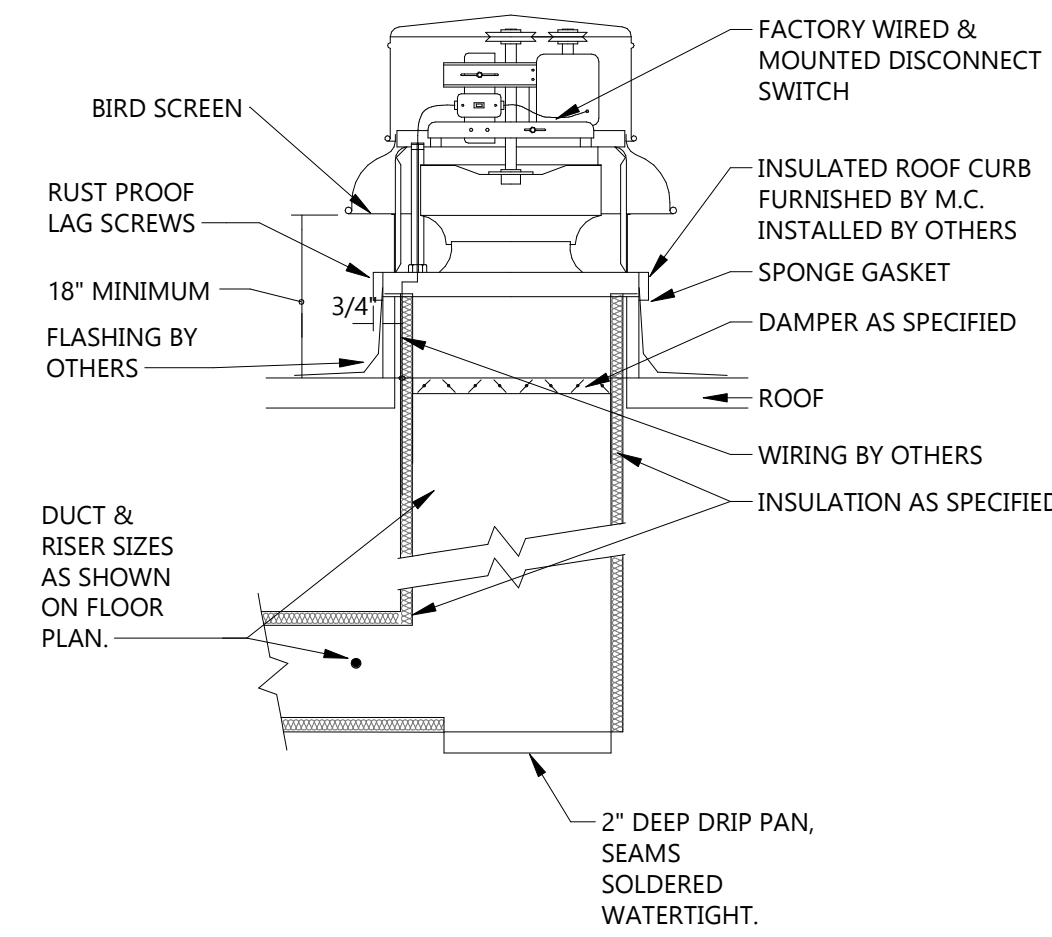
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M601
ACCU PAD DETAIL
NO SCALE



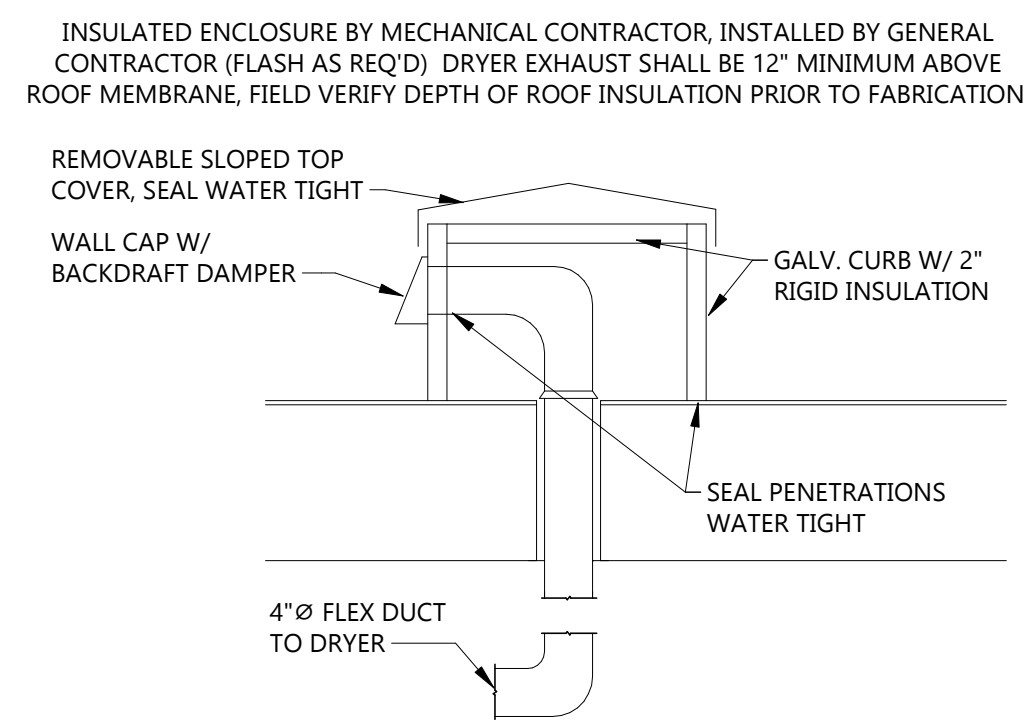
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M601
INLINE POWER VENT DETAIL
NO SCALE



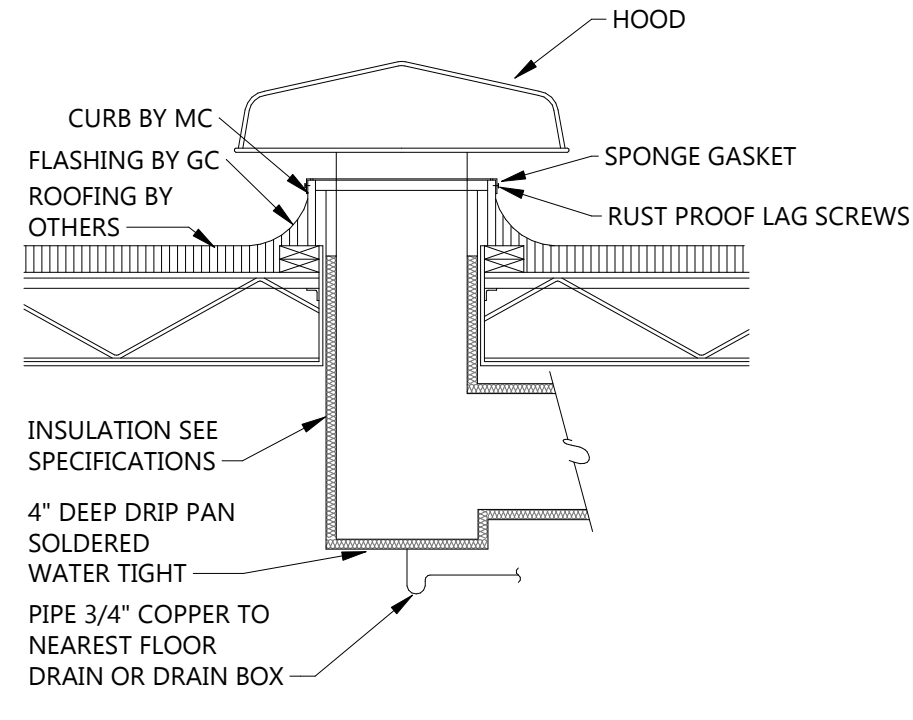
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M601
PIPING WEATHER ENCLOSURE DETAIL
NOT TO SCALE



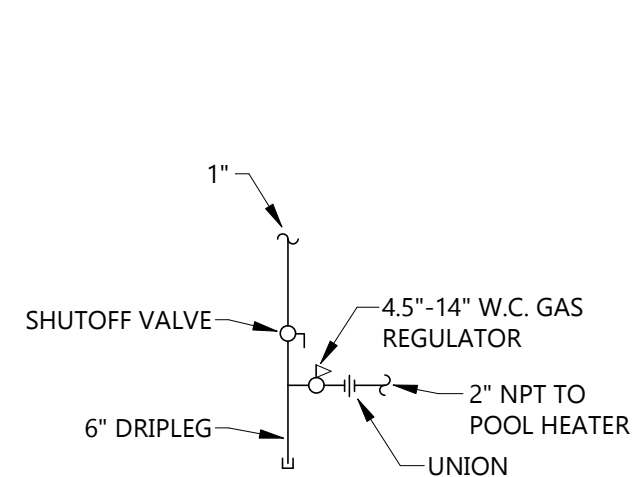
6
M601
RELIEF FAN DETAIL
NO SCALE



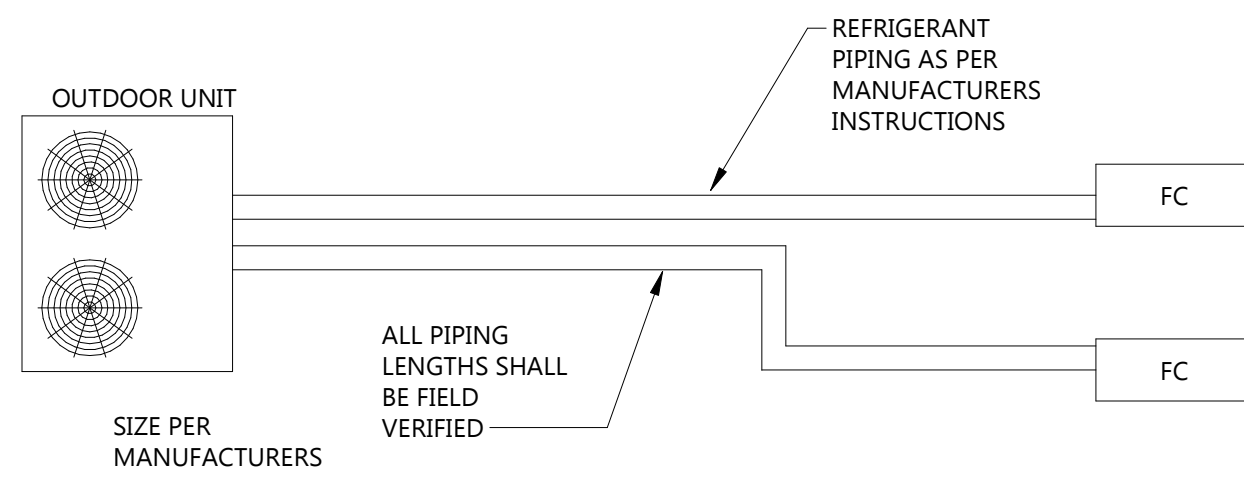
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M601
DRYER EXHAUST VENT
1\"/>



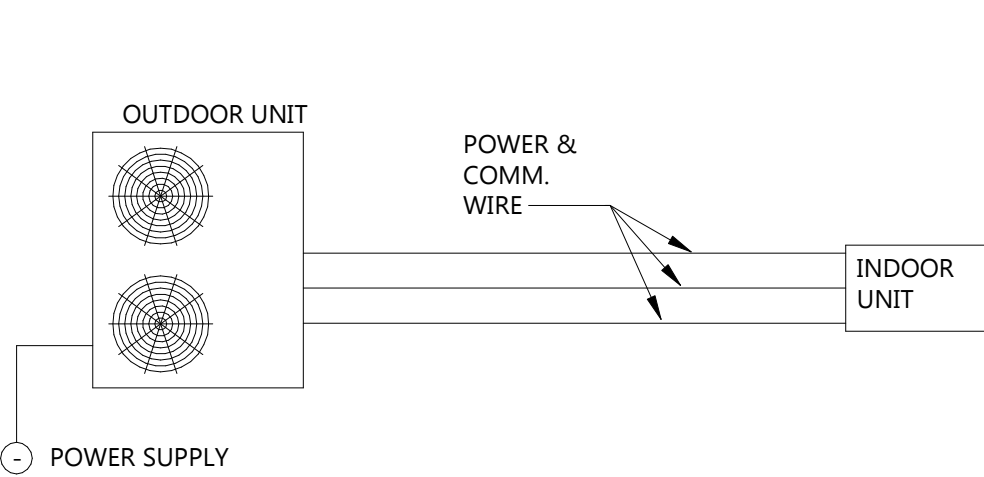
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M601
TYPICAL RELIEF/INTAKE HOOD DETAIL
NO SCALE



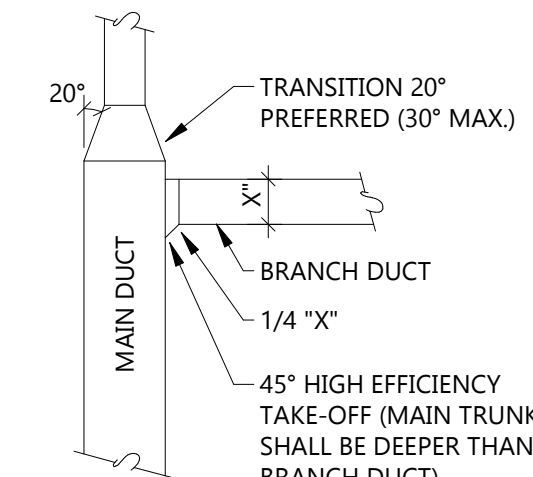
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M601
POOL HEATER GAS CONNECTION DETAIL
NO SCALE



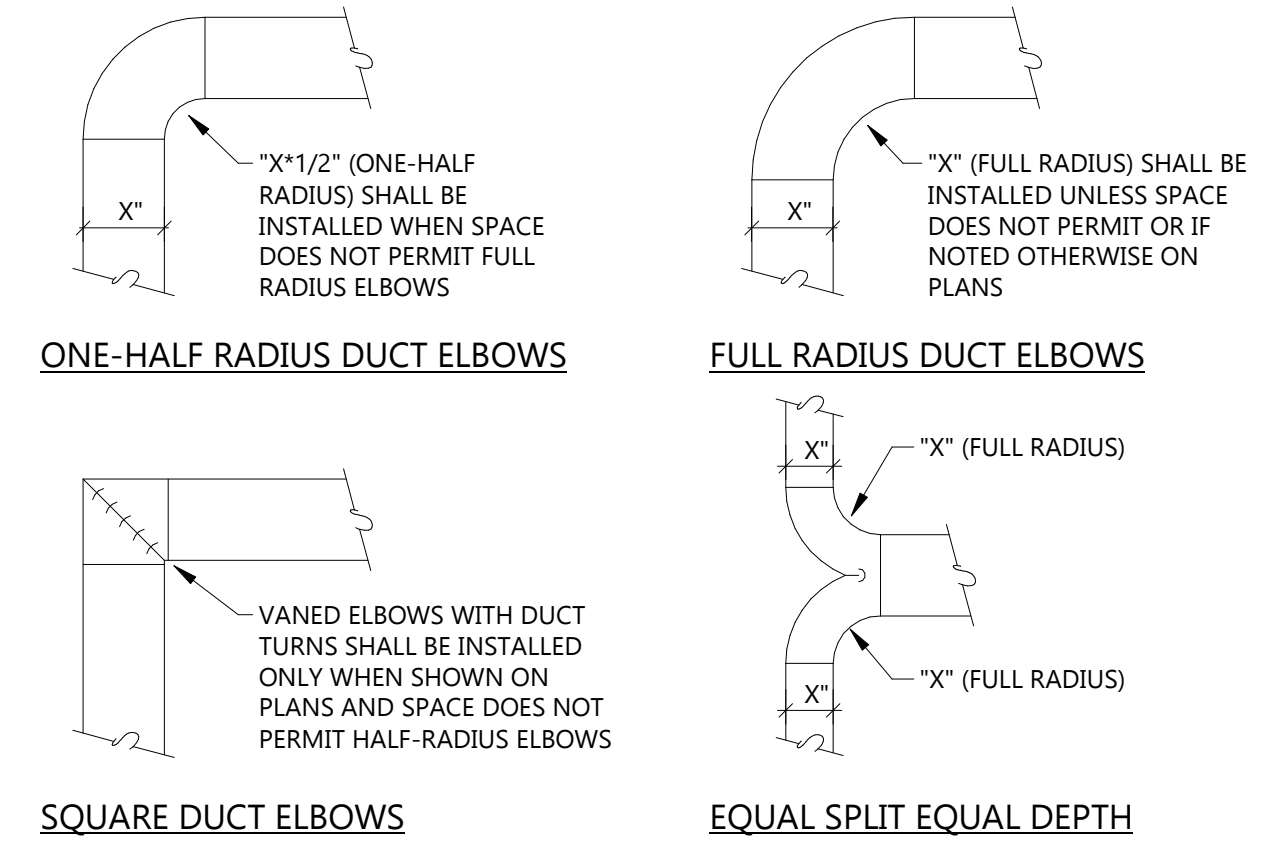
3
M601
MULTI-MINI SPLIT SYSTEM TYPICAL PIPING DETAIL
NO SCALE



2
M601
MINI SPLIT SYSTEM TYPICAL WIRING DETAIL
NO SCALE



1
M601
DUCT DETAILS
NOT TO SCALE



SPLIT SYSTEM HEAT PUMP SCHEDULE

| TAG | ROOM | MANUFACTURER | MODEL # | UNIT TYPE | OUTDOOR UNIT | CFM | COOLING (MBH) | HEATING (MBH) | SEER | SYSTEM POWER V/PH/Hz | MFA | MCA | SYSTEM TYPE | NOTES |
|--------|------|--------------|--------------|-----------|--------------|-----|---------------|---------------|------|----------------------|------|------|-------------|---------|
| AC-1 | 107 | DAIKIN | CTX07AXVJU | INDOOR | ACCU-1 | 350 | 7.0 | 7.0 | - | 208/60/1 | - | - | MINI-SPLIT | 1, 2, 3 |
| AC-2 | 108 | DAIKIN | FFQ12W2VJU9 | INDOOR | ACCU-1 | 350 | 10.8 | 13.5 | - | 208/60/1 | - | - | MINI-SPLIT | 1, 2, 3 |
| AC-3 | 100 | DAIKIN | CTX09AXVJU | INDOOR | ACCU-2 | 350 | 9.0 | 10.0 | - | 208/60/1 | - | - | MINI-SPLIT | 1, 2, 3 |
| AC-4 | 100 | DAIKIN | CTX09AXVJU | INDOOR | ACCU-2 | 350 | 9.0 | 10.0 | - | 208/60/1 | - | - | MINI-SPLIT | 1, 2, 3 |
| AC-5 | 101 | DAIKIN | CTX09AXVJU | INDOOR | ACCU-2 | 350 | 9.0 | 10.0 | - | 208/60/1 | - | - | MINI-SPLIT | 1, 2, 3 |
| ACCU-1 | - | DAIKIN | 2MX18AXVJU | OUTDOOR | - | - | 17.0 | 17.0 | 17.0 | 208/60/1 | 15.0 | 10.9 | MINI-SPLIT | 1, 4 |
| ACCU-2 | - | DAIKIN | 3MXS24WMVJU9 | OUTDOOR | - | - | 24.0 | 24.0 | 18.0 | 208/60/1 | 25.0 | 18.1 | MINI-SPLIT | 1, 4 |

1. REFRIGERANT IS R-410A. INSTALL PER MANUFACTURERS RECOMMENDATIONS
2. PROVIDE UNITS COMPLETE WITH WIRELESS REMOTE THERMOSTAT
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP IN UNIT
4. INSTALL OUTDOOR UNITS PER MANUFACTURER'S REQUIREMENTS FOR SERVICE & OPERATING CLEARANCES

LOUVER SCHEDULE

| TAG | MANUFACTURER & MODEL # | CFM | FREE AREA (FT2) | VELOCITY (FT/MIN) | PRESSURE DROP (IN W.C.) | LOUVER SIZE | | | FINISH | MATERIAL | NOTES: |
|-----|------------------------|-------|-----------------|-------------------|-------------------------|-------------|--------|-------|------------------------------|----------|------------|
| | | | | | | WIDTH | HEIGHT | DEPTH | | | |
| L-1 | GREENHECK EDD-401 | 130 | 0.3 | 417 | 0.03 | 12" | 12" | 4" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-2 | GREENHECK EDD-401 | 130 | 0.3 | 417 | 0.03 | 12" | 12" | 4" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-3 | GREENHECK EDD-401 | 1,000 | 3.4 | 293 | 0.01 | 72" | 16" | 4" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-4 | GREENHECK ESD-202 | 170 | 0.5 | 344 | 0.02 | 36" | 8" | 2" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-5 | GREENHECK ESD-435 | 1,000 | 2.8 | 354 | 0.02 | 36" | 24" | 4" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-6 | GREENHECK ESD-435 | 1,000 | 2.8 | 354 | 0.02 | 36" | 24" | 4" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-7 | GREENHECK ESD-202 | 70 | 0.5 | 344 | 0.02 | 36" | 8" | 2" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |
| L-8 | GREENHECK ESD-202 | 70 | 0.5 | 344 | 0.02 | 36" | 8" | 2" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3, 4 |

1. MANUFACTURER TO PROVIDE LOUVER WITH 1/2" x 1/2" BIRDSCREEN
2. COLOR SELECTION BY ARCHITECT.
3. PROVIDE WITH COVER TO KEEP SNOW OUT DURING WINTERIZATION
4. LOUVERS PROVIDED AND INSTALLED BY M.C. LINTELS BY PROVIDED AND INSTALLED BY G.C.

HOOD SCHEDULE

| TAG | MANUFACTURER & MODEL # | CFM | THROAT AREA (FT2) | THROAT SIZE | | HOOD SIZE | | FINISH | MATERIAL | NOTES: |
|------|------------------------|-----|-------------------|-------------|----------|-----------|--------|------------------------------|----------|---------|
| | | | | DIAMETER | VELOCITY | DIAMETER | HEIGHT | | | |
| RH-1 | GREENHECK GRSR-8 | 130 | 0.40 | 8"Ø | 351 | 21"Ø | 7" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3 |
| RH-2 | GREENHECK GRSR-8 | 130 | 0.40 | 8"Ø | 351 | 21"Ø | 7" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3 |
| RH-3 | GREENHECK GRSI-8 | 50 | 0.40 | 8"Ø | 135 | 21"Ø | 7" | COLOR SELECTION BY ARCHITECT | ALUMINUM | 1, 2, 3 |

1. MANUFACTURER TO PROVIDE BIRDSCREEN
2. INSTALLED BY M.C.
3. PROVIDE WITH 12" INSULATED CURB

REGISTER-GRILLE-DIFFUSER SCHEDULE

| TAG | TYPE | FACE | NECK SIZE | FRAME | CFM | 1 = STEEL 2 = ALUM. 3 = S. STEEL | | | 1 = OFFWHITE 2 = CLEAR-ALUM 3 = #84 BLACK | | | MANUF. UNLESS NOTED OTHERWISE | NOTES |
|-----|------|--------------------|-----------|-----------|-----|--|--------|-------------|---|--------|-------------|-------------------------------|-------|
| | | | | | | MATERIAL | FINISH | PRICE MODEL | MATERIAL | FINISH | PRICE MODEL | | |
| E-1 | E | SPIRAL DUCT GRILLE | 12"Ø | 12" x 12" | 600 | 2 | 2 | 2 | SDGER | | 1 | | |
| E-2 | E | SPIRAL DUCT GRILLE | 10"Ø | 10" x 10" | 400 | 2 | 2 | 2 | SDGER | | 1 | | |
| E-3 | E | SPIRAL DUCT GRILLE | 10"Ø | 10" x 6" | 170 | 2 | 2 | 2 | SDGER | | 1 | | |
| E-4 | E | SPIRAL DUCT GRILLE | 8"Ø | 8" x 6" | 70 | 2 | 2 | 2 | SDGER | | 1 | | |
| E-5 | E | SPIRAL DUCT GRILLE | 6"Ø | 6" x 6" | 70 | 2 | 2 | 2 | SDGER | | 1 | | |

1. MOUNT DIRECTLY TO DUCT USING PRE-DRILLED COUNTERSUNK SCREW HOLES.

FAN SCHEDULE

| TAG | CFM | E.S.P. | MOTOR SIZE | | VOLT/PHASE | FRPM | DRIVE | MANUFACTURER | MODEL | SONES | NOTES |
|------|-------|--------|------------|------|------------|-------|--------|--------------|----------|-------|-----------|
| | | | BHP | HP | | | | | | | |
| EF-1 | 130 | 0.5 | 0.07 | 1/4 | 115 / 1 | 1,380 | DIRECT | GREENHECK | SQ-97-VG | 9.9 | 1,2,3,4,5 |
| EF-2 | 130 | 0.5 | 0.07 | 1/4 | 115 / 1 | 1,380 | DIRECT | GREENHECK | SQ-97-VG | 9.9 | 1,2,3,4,5 |
| EF-3 | 1,000 | 0.1 | 0.10 | 1/6 | 115 / 1 | 1,575 | DIRECT | GREENHECK | G-095-VG | 9.6 | 1,2,3,4 |
| EF-4 | 310 | 0.5 | 0.07 | 1/10 | 115 / 1 | 1,720 | DIRECT | GREENHECK | G-080-VG | 8.7 | 1,2,3,4 |
| EF-5 | 1,000 | 0.5 | 0.14 | 1/4 | 115 / 1 | 1,165 | DIRECT | GREENHECK | G-120-VG | 8.3 | 1,2,3,4 |
| EF-6 | 1,000 | 0.5 | 0.14 | 1/4 | 115 / 1 | 1,165 | DIRECT | GREENHECK | G-120-VG | 8.3 | 1,2,3,4 |

1. PROVIDE WITH FACTORY SUPPLIED DISCONNECT
2. UNIT SHALL HAVE ECM MOTOR WITH DIAL SPEED CONTROL FOR BALANCING
3. FAN SHALL BE UL LISTED
4. PROVIDE FAN WITH BACKDRAFT DAMPER & BIRD SCREEN
5. MOUNT TO CEILING USING MANUFACTURER SUPPLIED HANGING ISOLATORS

GAS LOAD SCHEDULE

| ROOM | TAG | CFH |
|---------------------|---------------------------------|-------|
| MECHANICAL ROOM | WH-1 | 500 |
| POOL EQUIPMENT ROOM | LEISURE POOL HEATER #1 | 1,800 |
| POOL EQUIPMENT ROOM | LEISURE POOL HEATER #2 | 1,800 |
| POOL EQUIPMENT ROOM | FITNESS POOL HEATER #1 (FUTURE) | 1,250 |
| POOL EQUIPMENT ROOM | FITNESS POOL HEATER #2 (FUTURE) | 1,250 |
| TOTAL CFH = | | 6,100 |

NOTE: CFH = CUBIC FEET PER HOUR



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CLIENT

WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION

WILLISTON WATER
WORLD

CITY WILLISTON

STATE ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENTS | 05/19/2023 |
|------|------------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| MARK | DESCRIPTION | DATE |

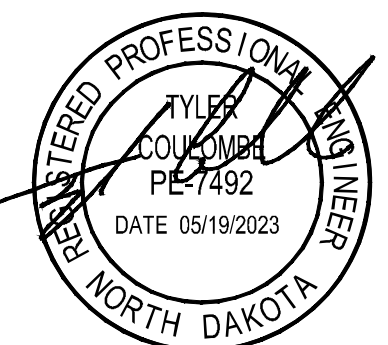
PROJECT NO: 20224620

DRAWN BY: LS

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STAMP



DRAWING TITLE

MECHANICAL
SCHEDULES

M801

ELECTRICAL LEGEND

ABBREVIATIONS

| ABBREVIATIONS | | |
|---------------|--|--|
| A | AMPERS | |
| AC | ABOVE COUNTER | |
| ACCU | AIR COOLED CONDENSING UNIT | |
| AF | AMP-FUSE | |
| AFF | ABOVE FINISHED FLOOR | |
| AHJ | AUTHORITY HAVING JURISDICTION | |
| AHU | AIR HANDLING UNIT | |
| ALT | ALTERNATE | |
| AL | ALUMINUM | |
| AMP | AMPLIFIER | |
| ANN | ANNUNCIATOR | |
| ARCH | ARCHITECT(URAL) | |
| ATS | AUTOMATIC TRANSFER SWITCH | |
| AV | AUDIO VISUAL | |
| AUX | AUXILIARY | |
| BFG | BELOW FINISHED GRADE | |
| BK | BLACK | |
| BKR | BREAKER | |
| BR | BRANCH | |
| BTU | BRITISH THERMAL UNIT | |
| CAB | CABINET | |
| CALC | CALCULATION | |
| CAT | CATALOG | |
| CB | CIRCUIT BREAKER | |
| CBIC | CIRCUIT BREAKER INTERRUPTING CURRENT | |
| CCT | CIRCUIT | |
| CFL | COMPACT FLOURESENT LIGHT | |
| CKT | CIRCUIT | |
| CLGIC | CEILING | |
| COMM | COMMUNICATIONS | |
| COMPR | COMPRESSOR | |
| COND | CONDUCTOR | |
| CONN | CONNECTION | |
| CR | CARD READER | |
| CT | CURRENT TRANSFORMER | |
| CTR | CENTER | |
| CU | COPPER | |
| CUH | CABINET UNIT HEATER | |
| dB | DECIBEL | |
| DED | DEDICATED CIRCUIT | |
| DEV | DEVICE | |
| DIA | DIAMETER | |
| DISC | DISCONNECT | |
| DISP | DISPOSAL | |
| DISTR | DISTRIBUTION | |
| DN | DOWN | |
| DSL | DUTY STATION | |
| DTL | DETAIL | |
| DWG | DRAWING | |
| EC | ELECTRICAL CONTRACTOR | |
| EF | EXHAUST FAN | |
| EL | ELECTRICAL, ELECTRIC | |
| ELEV | ELEVATOR OR ELEVATION | |
| EM | EMERGENCY | |
| EQ | EQUAL, EQUIPMENT | |
| ERU | ENERGY RECOVERY UNIT | |
| EUH | ELECTRIC UNIT HEATER | |
| EWC | ELECTRIC WATER COOLER | |
| EWH | ELECTRIC WATER HEATER | |
| EX | EXISTING | |
| EXH | EXHAUST | |
| EXPL | EXPLOSION PROOF | |
| F | FUSE OR FRONT | |
| 'F | DEGREES FAHRENHEIT | |
| FA | FIRE ALARM | |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL | |
| FACP | FIRE ALARM CONTROL PANEL | |
| FD | FIRE DAMPER | |
| FXT | FIXTURE, LUMINAIRE | |
| FLA | FULL LOAD AMPERES | |
| FL | FLOOR | |
| FO | FIBER OPTICS | |
| FS | FLOW SWITCH | |
| FT | FEET | |
| FUT | FUTURE | |
| FURN | FURNISHED | |
| FUS | FUSE, FUSED, FUSIBLE | |
| GNDG | GROUND | |
| GAL | GALLONS | |
| GARB | GARBAGE DISPOSAL | |
| GC | GENERAL CONTRACTOR | |
| GEN | GENERATOR | |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER | |
| GFP | GROUND FAULT PROTECTION | |
| GPM | GALLONS PER MINUTE | |
| H | HIGH, HOT | |
| HC | HEATING COIL | |
| HD | HEAVY DUTY | |
| HID | HIGH INTENSITY DISCHARGE | |
| HP | HORSE POWER | |
| HPS | HIGH PRESSURE SODIUM | |
| HOA | HAND-OFF-AUTO | |
| HT | HEIGHT | |
| HTR | HEATER | |
| HVU | HEATING & VENTILATING UNIT | |
| HW | HOT WATER | |
| HHW | HOT WATER HEATER | |
| ID | INSIDE DIMENSION | |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | |
| IN | INCHES | |
| INBOU | INBOARD/OUTBOARD | |
| INCAND | INCANDESCENT | |
| INFO | INFORMATION | |
| INST | INSTALLATION | |
| INSUL | INSULATED/INSULATOR | |
| INV | INVERTER | |
| JB | JUNCTION BOX | |
| KA | THOUSAND AMPS | |
| KS | KNEE SPACE | |
| L | LAMP | |
| LCP | LIGHTING CONTROL PANEL | |
| LAY | LAY IN | |
| LOC | LOCATION, LOCATE | |
| LRA | LOCKED ROTOR AMPS | |
| LTG | LIGHTING | |
| LTS | LIGHTS | |
| LV | LOW VOLTAGE | |
| M | MAINTENANCE | |
| M.MNIT | MAINTENANCE | |
| MAG | MAGNETIC | |
| MAU | MAKE UP AIR UNIT | |
| MAX | MAXIMUM | |
| MC | MECHANICAL CONTRACTOR | |
| MCA | MINIMUM CIRCUIT AMPS | |
| MCB | MAIN CIRCUIT BREAKER | |
| MCC | MOTOR CONTROL CENTER | |
| MDF | MAIN DISTRIBUTION FRAME | |
| MDP | MAIN DISTRIBUTION PANEL | |
| MICRW | MICROWAVE | |
| MFR | MANUFACTURER | |
| MFS | MAXIMUM FUSE SIZE | |
| MH | METAL HALIDE, MOUNTING HEIGHT, MANHOLE | |
| MIN | MINIMUM | |
| MLO | MAIN LUGS ONLY | |
| MOP | MAX OVERCURRENT PROTECTION | |
| MSB | MAIN SWITCHBOARD | |
| MTD | MOUNTED | |
| MTG | MOUNTING | |
| MATL | MATERIAL | |
| MTR | MOTOR OR METER | |
| N | NEUTRAL | |
| NA | NOT APPLICABLE | |
| NC | NORMALLY CLOSED | |
| NEC | NATIONAL ELECTRICAL CODE | |
| NF | NON FUSED | |
| NIC | NOT IN CONTRACT | |
| NIGHT | NIGHT LIGHT | |
| N.O. | NORMALLY OPEN | |
| NORM | NORMALLY | |
| NTS | NOT TO SCALE | |
| ON | ON CENTER | |
| OCP | OVERCURRENT PROTECTION | |
| OD | OUTSIDE DIMENSION, OUTSIDE DIAMETER | |
| OH | OVERHEAD | |
| OL | OUTLET, OVERLOAD | |
| OP | OPERATOR | |
| P | PUMP, POLE | |
| PC | PHOTO CONTROL | |
| PH | PHASE | |
| P.H. | PENTHOUSE | |
| PNL | PANEL, PANEL BOARD | |
| PR | PAIR | |
| PR1 | PRIMARY | |
| PRIV | PRIVATE | |
| PROJ | PROJECTOR | |
| PRV | POWER ROOF VENT | |
| PS | PULSE START/POWER SUPPLY | |
| QTY | QUANTITY | |
| R | REFRIGERATOR | |
| RA | RETURN AIR | |
| REC | RECESSED | |
| RCVR | RECEIVER | |
| RCPT | RECEPTACLE | |
| REF | REFERENCE, REFER TO | |
| REQD | REQUIRE(D) | |
| REV | REVISION | |
| REX | REQUEST TO EXIT | |
| RLA | LOCKED LOAD AMPS | |
| RM | ROOM | |
| RTU | ROOF TOP UNIT | |
| SA | SUPPLY AIR | |
| SC | SHORT CIRCUIT | |
| SF | SQUARE FEET | |
| SHT | SHEET | |
| SHD | SMOKE DAMPER | |
| SP | SUMP PUMP | |
| SPEC | SPECIFICATION | |
| SSTL | STAINLESS STEEL | |
| STD | STANDARD | |
| SURF | SURFACE MOUNT | |
| SW | SWITCH | |
| SWB | SWITCHBOARD | |
| SYS | SYSTEM | |
| TCC | TEMPERATURE CONTROL CONTRACTOR | |
| TCR | TEMPERATURE CONTROL PANEL | |
| TD | TIME DELAY | |
| TEL | TELEPHONE | |
| TEMP | TEMPORARY, TEMPERATURE | |
| TP | TAMPERPROOF | |
| TRT | TRIPLE TUBE | |
| TS | TIME SWITCH | |
| STAT | THERMOSTAT | |
| TV | TELEVISION | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR | |
| TYP | TYPICAL | |
| U | UNRAL | |
| UBC | UNITED BUILDING CODE | |
| UG | UNDER GROUND | |
| UH | UNIT HEATER | |
| UNV | UNIVERSAL | |
| UTL | UTILITY | |
| UTP | UNSHIELDED TWISTED PAIR | |
| V | VOLT | |
| VAV | VAV BOX | |
| VERT | VERTICAL | |
| VFD | VARIABLE FREQUENCY DRIVE | |
| WG | WIRE GUARD | |
| WC | WATER CLOSET | |
| WHTR | WATER HEATER | |
| WP | WEATHERPROOF, NEMA 3R IF ENCLOSURE | |
| W | WITH | |
| W/O | WITHOUT | |
| XFMR | TRANSFORMER | |

NOTE: 1. NOT ALL ABBREVIATIONS MAY BE USED ON THIS PROJECT

POWER

RACEWAY

| | |
|----------|---|
| A-1,3,5 | HOMERUN-TEXT DESIGNATES PANEL AND CIRCUIT BREAKER NUMBER, HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN A 3/4" CONDUIT, NO HASH MARKS INDICATE 2 #12 AWG IN A 3/4" CONDUIT UNLESS NOTED OTHERWISE, PROVIDE A CODE SIZED GROUND IN EACH CONDUIT. |
| [Symbol] | SURFACE RACEWAY - RECEPTACLES |
| [Symbol] | SURFACE RACEWAY - DATA/TELEPHONE |
| [Symbol] | CONDUIT STUB |
| [Symbol] | CONDUIT UP |
| [Symbol] | CONDUIT DOWN |
| [Symbol] | EXPLOSION PROOF SEAL OFF |
| [Symbol] | FLEX CONDUIT |
| [Symbol] | CONDUIT BRANCH CIRCUIT |
| [Symbol] | CABLE TRAY |

RECEPTACLES

| | |
|----------|--|
| [Symbol] | DUPLEX RECEPTACLE - 20A, 125V |
| [Symbol] | ISOLATED GROUND |
| [Symbol] | SINGLE RECEPTACLE |
| [Symbol] | DOUBLE DUPLEX RECEPTACLE-20A, 125V |
| [Symbol] | HALF-SWITCHED RECEPTACLE-20A, 120V |
| [Symbol] | SPECIAL RECEPTACLE |
| [Symbol] | BOX SURROUNDING DEVICE DEPICTS FLOOR MOUNTED |
| [Symbol] | REVISION |
| [Symbol] | SUB= SUBSCRIPT AS FOLLOWS: AC-ABOVE COUNTER CLG-CEILING OUTLET EM-EMERGENCY EWC-ELECTRIC WATER COOLER F-FLOOR G-GROUND FAULT INTERRUPTER H-HORIZONTAL MOUNTED P-PLUG MOLD S-SURFACE MOUNTED SS-SURGE SUPPRESSION RECEPTACLE TP-TAMPER PROOF W-WEATHERPROOF WP-WEATHERPROOF XP-EXPLOSION PROOF 10-NUMBER INDICATES CIRCUIT NUMBER OTHERWISE |

JUNCTION BOXES

| | |
|----------|----------------------------|
| [Symbol] | JUNCTION BOX |
| [Symbol] | FLOOR MOUNTED JUNCTION BOX |
| [Symbol] | LARGE JUNCTION BOX |
| [Symbol] | HAND DRYER |

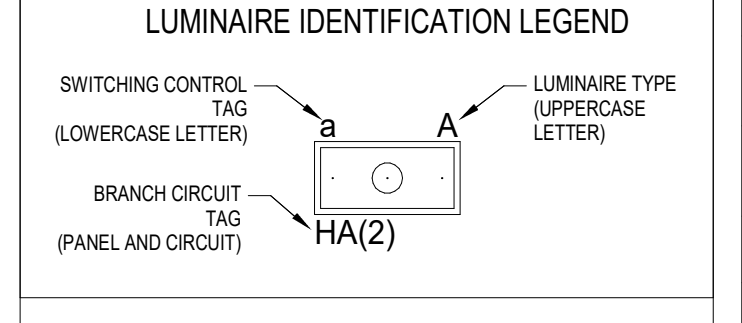
MOTORS & HVAC EQUIPMENT & CONTROLS

| | |
|----------|--|
| [Symbol] | MOTOR-# INDICATES MOTOR NUMBER SMALL MOTOR-XX LETTERS INDICATE SERVICE SUB AS FOLLOWS: EF-BATHROOM EXHAUST FAN GD-GARBAGE DISPOSAL HD-HAND DRYER |
| [Symbol] | MANUAL MOTOR STARTER |
| [Symbol] | MANUAL MOTOR DISCONNECT WITH THERMAL PROTECTION |
| [Symbol] | MAGNETIC MOTOR STARTER |
| [Symbol] | STARTER/DISCONNECT COMBINATION UNIT |
| [Symbol] | DISCONNECT SWITCH |
| [Symbol] | TEMPERATURE CONTROL PANEL |
| [Symbol] | THERMOSTAT |
| [Symbol] | RELAY |
| [Symbol] | MAGNETIC CONTACTOR |
| [Symbol] | EMERGENCY SHUNT TRIP |

PANELS/EQUIPMENT

| | |
|----------|-----------------------------------|
| [Symbol] | MAIN DISTRIBUTION PANEL |
| [Symbol] | PLYWOOD BACKBOARD |
| [Symbol] | FLUSH MOUNTED PANELBOARD |
| [Symbol] | SURFACE MOUNTED PANELBOARD |
| [Symbol] | DRY TRANSFORMER |
| [Symbol] | MOTOR CONTROL CENTER |
| [Symbol] | METER |
| [Symbol] | ELECTRIC HEATER/REHEATER |
| [Symbol] | BACK BOX FOR FUTURE WIRING DEVICE |

LIGHTING



INTERIOR LIGHTING

ALL LIGHTING FIXTURES ARE IDENTIFIED BY A LETTER(S) COORDINATE WITH LUMINAIRE SCHEDULE AS TO THE FIXTURES: IDENTIFICATION, MANUFACTURER, CATALOG NUMBER, LAMPS, MOUNTING, LOCATION AND COMMENTS.

| | |
|----------|--------------------------------------|
| [Symbol] | RECESSED TROFFER |
| [Symbol] | RECESSED TROFFER EMERGENCY |
| [Symbol] | SURFACE MOUNTED LIGHT FIXTURE |
| [Symbol] | SURFACE MOUNTED LIGHT FIXT EMERGENCY |
| [Symbol] | RECESSED LED STRIP LIGHT |
| [Symbol] | RECESSED LED STRIP LIGHT EMERGENCY |
| [Symbol] | PENDANT MOUNTED |
| [Symbol] | DOUBLE DUPLEX RECEPTACLE |
| [Symbol] | PENDANT MOUNTED EMERGENCY |
| [Symbol] | UNDER CABINET |
| [Symbol] | WALL MOUNTED FIXTURE |
| [Symbol] | STRIP LIGHT OR INDUSTRIAL FIXTURE |
| [Symbol] | RECESSED DOWN LIGHT EMERGENCY |
| [Symbol] | RECESSED DOWN LIGHT |
| [Symbol] | RECESSED DOWN LIGHT WALL WASH |
| [Symbol] | WALL MOUNTED FIXTURE |
| [Symbol] | WALL MOUNTED FIXTURE EMERGENCY |
| [Symbol] | RECESSED WALL |
| [Symbol] | RECESSED WALL EMERGENCY |
| [Symbol] | SURFACE MOUNTED LIGHT FIXTURE |
| [Symbol] | PENDANT MOUNT FIXTURE |

EXIT - EMERGENCY

| | |
|----------|-----------------------------------|
| [Symbol] | WALL MOUNTED EXIT LIGHT |
| [Symbol] | CEILING MOUNTED EXIT LIGHT |
| [Symbol] | SURFACE MOUNTED EMERGENCY LIGHT |
| [Symbol] | RECESSED EMERGENCY LIGHT |
| [Symbol] | REMOTE HEAD FOR EMERGENCY FIXTURE |
| [Symbol] | COMBINATION EXIT/EMERGENCY |

SPECIAL LIGHTING

| | |
|----------|-----------------------|
| [Symbol] | TRACK LIGHTING |
| [Symbol] | COMBINATION FAN/LIGHT |

EXTERIOR/SITE

| | |
|----------|--|
| [Symbol] | POLE WITH LIGHT FIXTURE(S) FIXTURE SHOWN DEFINE QUANTITY AND ORIENTATION. |
| [Symbol] | POST TOP FIXTURE |
| [Symbol] | BOLLARD |
| [Symbol] | SPOT LIGHT |
| [Symbol] | FLOOD LIGHT |

LIGHTING CONTROL

| | |
|----------|--|
| [Symbol] | SINGLE POLE SWITCH, 120V, 20A SUB= SUBSCRIPT AS FOLLOWS: NONE-SINGLE-POLE, 120V, 20A 2-TWO-POLE, 120V, 20A 3-THREE-WAY, 120V, 20A 4-FOUR-WAY, 120V, 20A F-FUSED K-KEYED TOGGLE L-LIGHTED TOGGLE LV-LOW VOLTAGE P-SWITCH W/PILOT LIGHT T-TIMER WP-WEATHERPROOF WF-WEATHERPROOF OF FUSED SWITCH |
| [Symbol] | LINE VOLTAGE DIMMER |
| [Symbol] | CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR |
| [Symbol] | DAYLIGHT SENSOR |
| [Symbol] | UL 924 DEVICE |
| [Symbol] | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL DIMMING |
| [Symbol] | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ON/OFF SWITCH |
| [Symbol] | DIGITAL SWITCH (CATS) |
| [Symbol] | DITAL DIMMER (CATS) |
| [Symbol] | WALL MOUNTED MULTI-BUTTON SWITCH, # TO INDICATE QUANTITY OF BUTTONS (CATS) |
| [Symbol] | TOUCH SCREEN (CATS) |
| [Symbol] | DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (CATS) |
| [Symbol] | DIGITAL NETWORK BRIDGE TIE TO DIGITAL LIGHTING CONTROL SYSTEM (CATS) |
| [Symbol] | DIGITAL NETWORK BRIDGE TIE TO DIGITAL LIGHTING CONTROL SYSTEM (CATS) |
| [Symbol] | RGB DMX TOUCHSCREEN CONTROLLER |
| [Symbol] | DIGITAL DAYLIGHT SENSOR |

SYSTEMS

TELEPHONE/DATA

| | |
|----------|--|
| [Symbol] | DATA SUB= SUBSCRIPT AS FOLLOWS: #INDICATES NUMBER OF OUTLETS |
| [Symbol] | DATA/VOICE OUTLET SUB= SUBSCRIPT AS FOLLOWS: #/#/#INDICATES # & TYPE OF OUTLETS |
| [Symbol] | DATA/VOICE/QUADPLEX FLOOR BOX |
| [Symbol] | DATA/VOICE/DUPLEX FLOOR BOX |
| [Symbol] | DATA OUTLET CEILING |
| [Symbol] | DATA OUTLET FLOOR BOX |
| [Symbol] | DATA/VOICE OUTLET FLOOR BOX |
| [Symbol] | VOICE OUTLET SUB= SUBSCRIPT AS FOLLOWS: M-VOICE OUTLET/MULTI P-VOICE OUTLET/PUBLIC W-VOICE OUTLET/WALL |
| [Symbol] | WIRELESS ACCESS POINT |
| [Symbol] | TERMINAL CABINET |
| [Symbol] | DIGITAL COMMUNICATIONS PATCH PANEL |
| [Symbol] | VOICE/DATA VIDEO |
| [Symbol] | TELEPHONE TERMINAL BLOCK |
| [Symbol] | UTILITY DEMARK |
| [Symbol] | 3/4" PLYWOOD BACKBOARD W/ 2 COATS RETARDANT |
| [Symbol] | EQUIPMENT RACK - FREE STANDING |
| [Symbol] | EQUIPMENT RACK - WALL MOUNTED |

PAGING/SOUND/DATA/SURVEILLANCE

| | |
|----------|--|
| [Symbol] | SPEAKER - WALL MOUNTED SUB= SUBSCRIPT AS FOLLOWS: H-HORN SPEAKER N-NURSE CALL P-SPEAKER WITH PUSHBUTTON WG-WIREGUARD WP-WEATHERPROOF |
| [Symbol] | MASTER INTERCOM AND DIRECTORY UNIT |
| [Symbol] | MICROPHONE OUTLET |
| [Symbol] | VOLUME CONTROL |
| [Symbol] | INTERCOM HANDSET SUB= SUBSCRIPT AS FOLLOWS: DM-DESK MOUNTED MM-MASTER MD-MASTER DESK MOUNT WW-WALL MOUNTED |
| [Symbol] | AUXILIARY INPUT SUB= SUBSCRIPT AS FOLLOWS: I-INPUT O-OUTPUT |
| [Symbol] | VIDEO OUTLET |
| [Symbol] | SOUND SYS. PATCH PNL |
| [Symbol] | TELEVISION OUTLET |

DOOR SECURITY/SECURITY EXIT

| | |
|----------|---|
| [Symbol] | PUSHBUTTON |
| [Symbol] | HAND STATION (NORMALLY PUSH BUTTONS) |
| [Symbol] | BELL SUB= SUBSCRIPT AS FOLLOWS: B-BUZZER D-DOOR CHIME/BELL E-ELEVATOR CHIME P-PROGRAM BELL |
| [Symbol] | DOOR OPENER |
| [Symbol] | DOOR KEYPAD |
| [Symbol] | FINGER PRINT SCANNER |
| [Symbol] | ELECTRIC STRIKE DOOR LATCH |
| [Symbol] | MOTION DETECTOR |
| [Symbol] | BREAK GLASS DETECTOR |
| [Symbol] | SECURITY CAMERA SUB= SUBSCRIPT AS FOLLOWS: HS-HIGH SECURITY C-CEILING W-WALL WP-WEATHERPROOF |
| [Symbol] | SECURITY MONITOR |
| [Symbol] | INTERCOM |
| [Symbol] | SECURITY DOOR CONTACTS |
| [Symbol] | CARD READER SUB= SUBSCRIPT AS FOLLOWS: I-INTERCOM WP-WEATHERPROOF |
| [Symbol] | REQUEST TO EXIT SENSOR |
| [Symbol] | PANIC BAR |
| [Symbol] | MAGNETIC LOCK |
| [Symbol] | CCTV CABLE OUTLET |
| [Symbol] | WANDER GUARD |

CLOCK/PROGRAM

| | |
|----------|--|
| [Symbol] | WALL MOUNTED CLOCK SUB= SUBSCRIPT AS FOLLOWS: B-WITH BUZZER R-RECESSED WG-WITH WIREGUARD |
| [Symbol] | MASTER CLOCK |
| [Symbol] | TIME CLOCK |
| [Symbol] | CLOCK WITH SPEAKER |

SYSTEMS

FIRE ALARM

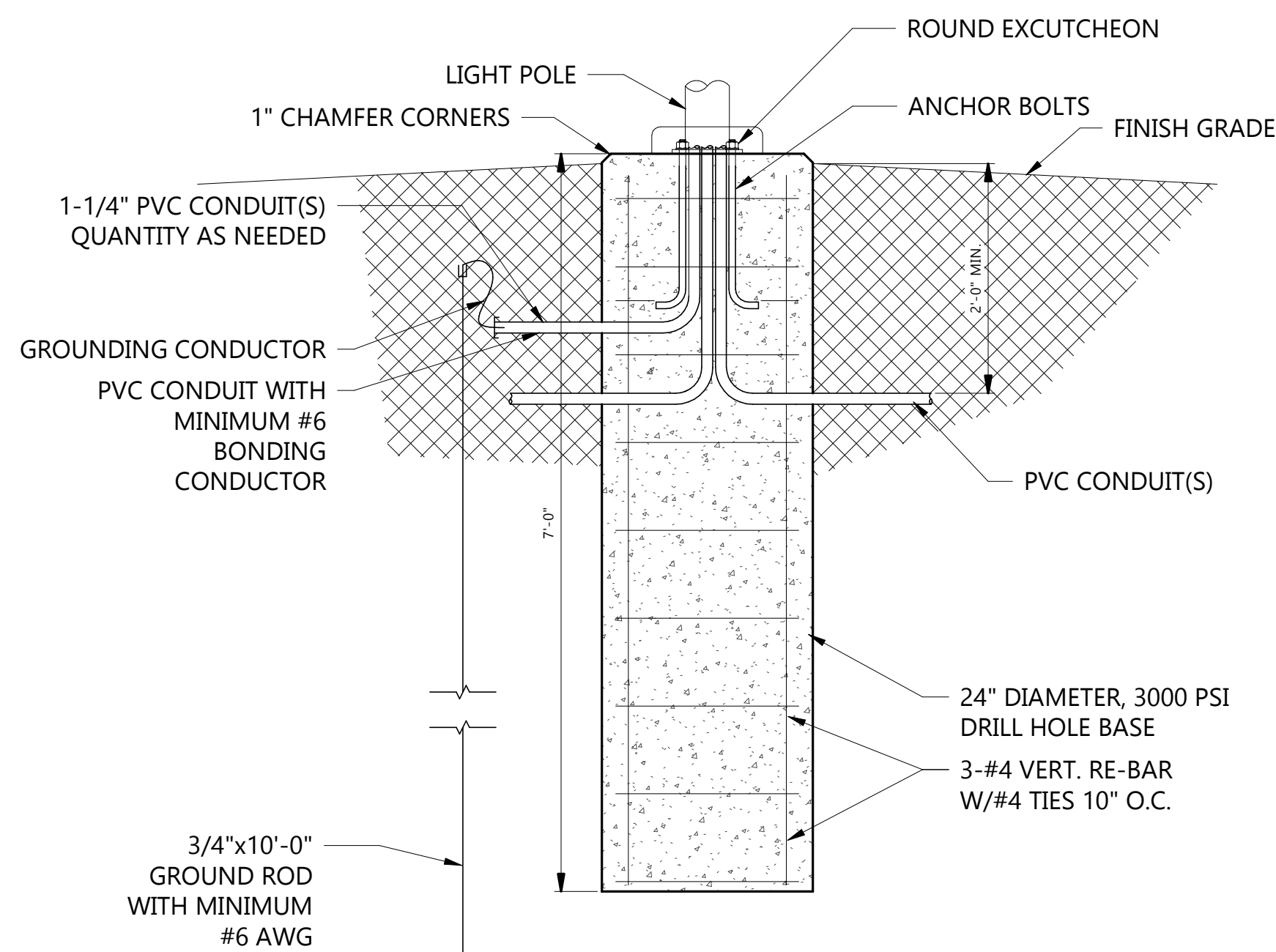
| | |
|----------|--|
| [Symbol] | FIRE ALARM CONTROL PANEL |
| [Symbol] | FIRE ALARM ANNUNCIATOR PANEL |
| [Symbol] | FIRE ALARM AUDIO DEVICE SUB= SUBSCRIPT AS FOLLOWS: WG-WIREGUARD WP-WEATHERPROOF S-SPEAKER |
| [Symbol] | FIRE ALARM AUDIO/VISUAL SUB= SUBSCRIPT AS FOLLOWS: WG-WIREGUARD MH-MINI-HORN H-HORN WP-WEATHERPROOF S-SPEAKER |
| [Symbol] | MANUAL PULL STATION |
| [Symbol] | FIRE ALARM VISUAL SUB= SUBSCRIPT AS FOLLOWS: NO SUB-75 CANDELA |
| [Symbol] | AUTOMATIC SMOKE DETECTOR SUB= SUBSCRIPT AS FOLLOWS: I-LOCAL E-ELEVATOR RECALL LSR-LASER WG-WIRE GUARD DU-DUET SMOKE DETECTOR W/2 AUX CONTACTS SB-SOUNDER BASE |
| [Symbol] | AUTOMATIC SMOKE DETECTOR-WALL MOUNT |
| [Symbol] | AUTOMATIC HEAT DETECTOR-CEILING MOUNT SUB= SUBSCRIPT AS FOLLOWS: N-NONE-FIXED TEMP & 135°F RATE OF RISE F-FIXED TEMP 130°F |
| [Symbol] | INDIVIDUAL ADDRESSABLE MODULE |
| [Symbol] | REMOTE INDICATOR |
| [Symbol] | FIRE ALARM MAGNETIC DOOR HOLDER |
| [Symbol] | MAIN SPRINKLER VALVE SUPERVISION TAMPER SWITCH |
| [Symbol] | SPRINKLER OR HOSE FLOW ALARM SWITCH |
| [Symbol] | FIRE ALARM RELAY |
| [Symbol] | FIRE ALARM SHUTDOWN RELAY |
| [Symbol] | NOTIFICATION APPLIANCE CIRCUIT PANEL |
| [Symbol] | ZONE ADAPTER MODULE |
| [Symbol] | FIRE ALARM BELL |
| [Symbol] | TRANSPONDER |
| [Symbol] | FIRE ALARM JUNCTION BOX |

NURSE CALL

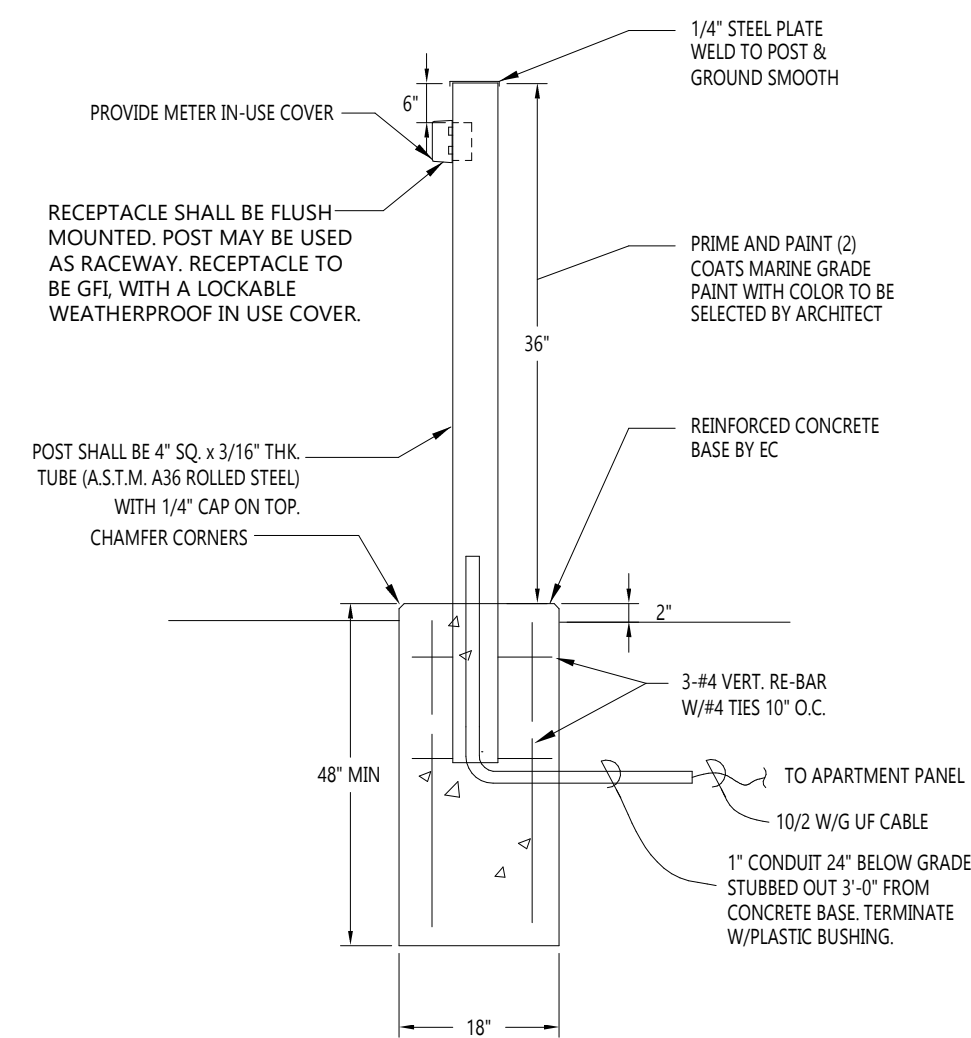
| | |
|----------|---|
| [Symbol] | NURSE CALL MASTER CONSOLE |
| [Symbol] | NURSES CALL TERMINAL CABINET |
| [Symbol] | SINGLE PATIENT BED STATION |
| [Symbol] | DOUBLE PATIENT BED STATION |
| [Symbol] | EMERGENCY/BATH STATION PUSH BUTTON |
| [Symbol] | EMERGENCY/BATH PULL CORD STATION |
| [Symbol] | STAFF ASSIST STATION |
| [Symbol] | STAFF ASSIST/BLUE COMBO |
| [Symbol] | DUTY STATION |
| [Symbol] | STAFF REGISTRATION STATION(IN ROOMS) |
| [Symbol] | CODE BLUE STATION |
| [Symbol] | MULTIPLE PURPOSE STATION |
| [Symbol] | PILLOW SPEAKER |
| [Symbol] | CORRIDOR DOME LIGHT Z-ZONE ADDRESSABLE |
| [Symbol] | SPEAKER |
| [Symbol] | NURSE CALL ANNUNCIATOR |

MISCELLANEOUS

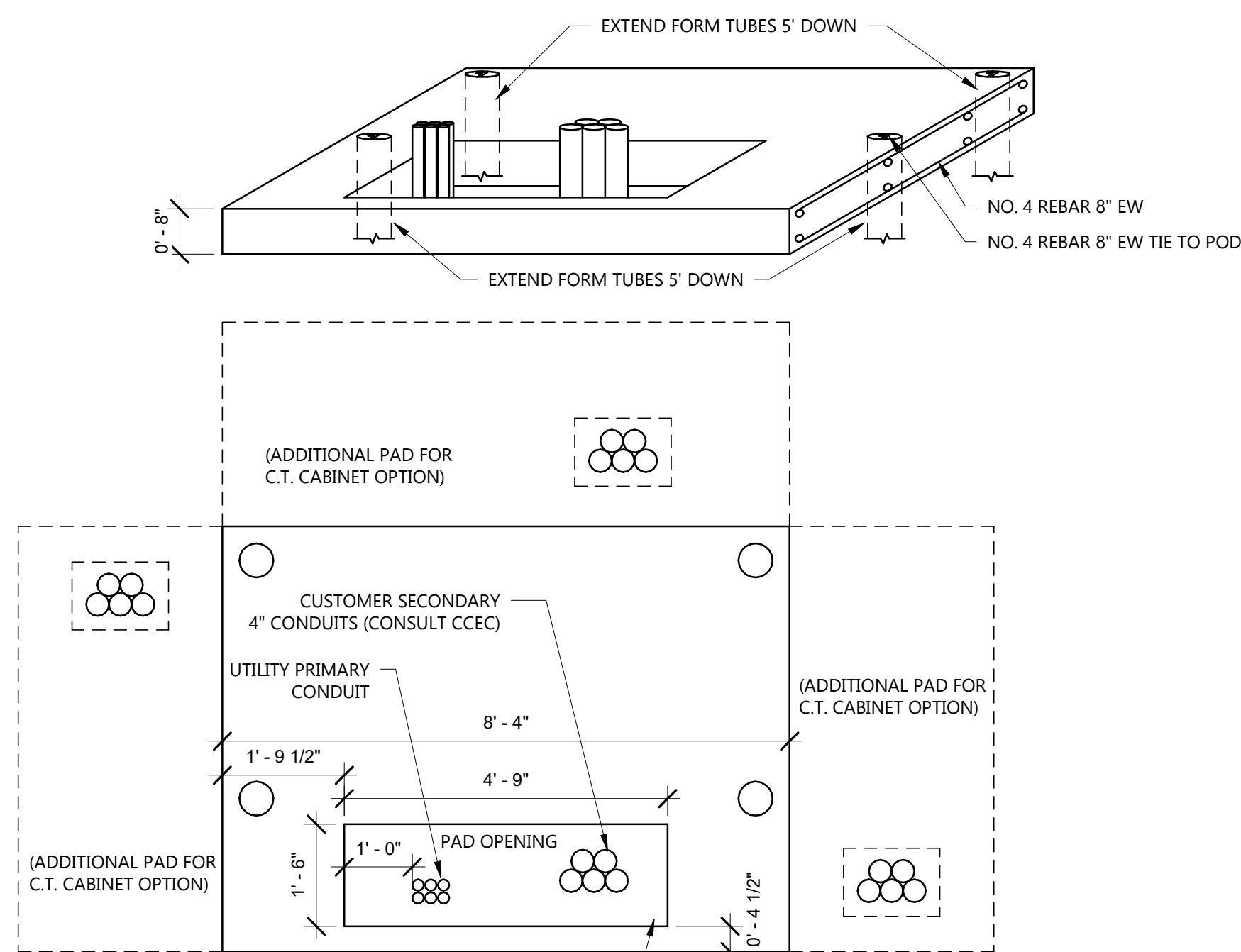
| | |
|----------|--|
| [Symbol] | GROUND/ROD CONNECTION POINT |
| [Symbol] | SECURITY CAMERA SUB= SUBSCRIPT AS FOLLOWS: A-AUDIBLE ALARM |



3 LIGHT POLE BASE DETAIL
E100 NOT TO SCALE



4 OUTDOOR RECEPTACLE POST DETAIL
E100 NOT TO SCALE



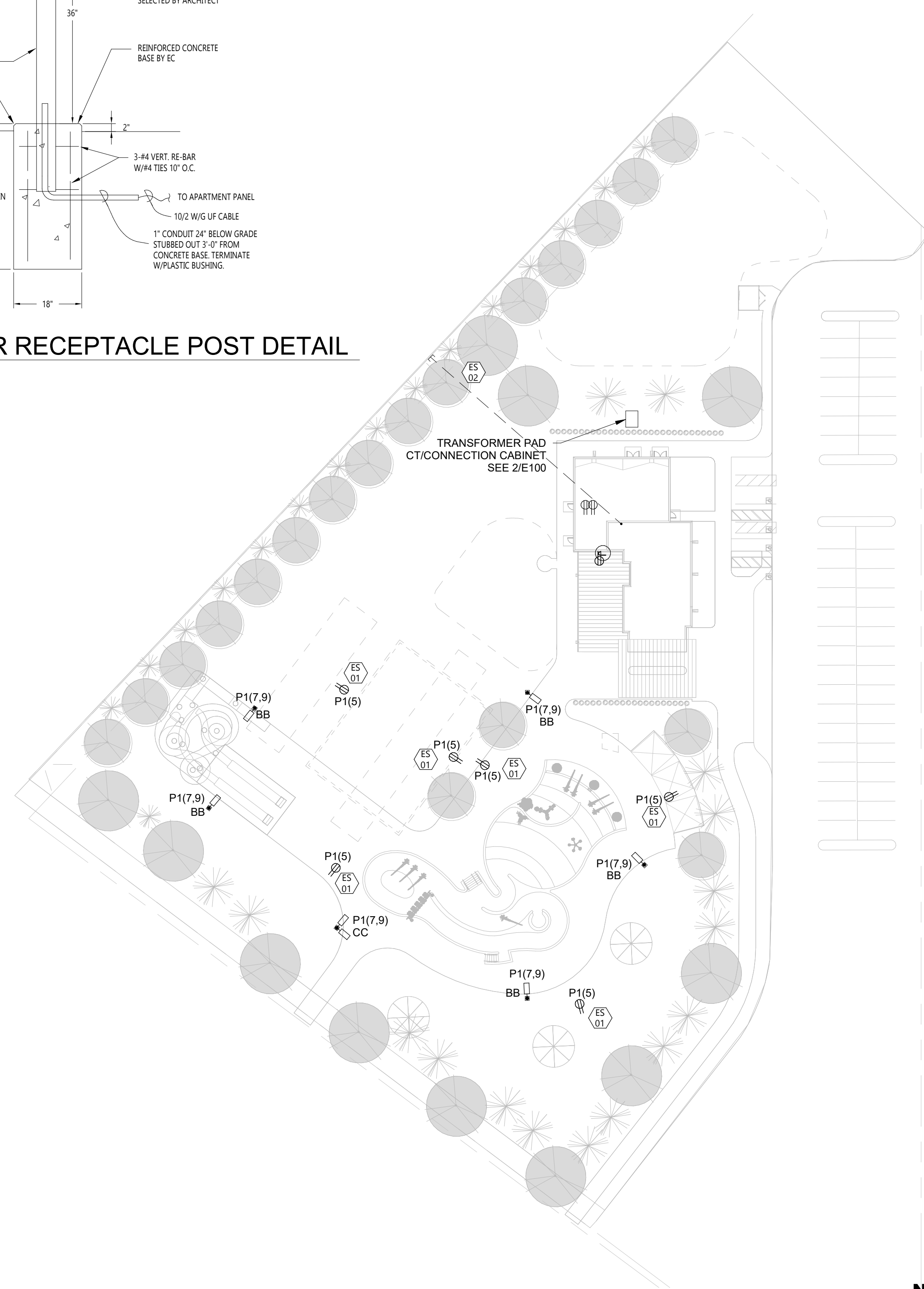
ASSEMBLY DOOR MUST NOT BE OBSTRUCTED. A MINIMUM 12 FT CLEARANCE IS REQUIRED ON THIS SIDE OF PAD.

GENERAL NOTE: XFMR PAD DETAIL BASED OFF CASS COUNTY ELECTRIC COOPERATIVE REQUIREMENTS. COORDINATE WITH UTILITY ON LOCATION FOR CT CABINET AND CONCRETE BLOCKOUTS AS NEEDED.

NOTES:

1. FOOTINGS ARE REQUIRED 5' DEPTH FOR FORM TUBES
2. MINIMUM SPACE BETWEEN BUILDING AND TRANSFORMER: 3FT
3. MAINTAIN CUSTOMER CONDUITS WITH 19" OF END OF PAD OPENING
4. IF C.T. CABINET IS USED, CUSTOMER MUST PROVIDE CONDUIT BETWEEN C.T. CABINET AND TRANSFORMER
5. ALL CONCRETE EDGES MUST BE ROUNDED INSIDE AND OUTSIDE OF PAD

2 TRANSFORMER PAD DETAIL
E100 NOT TO SCALE



1 BASE SITE PLAN (PHASE 1)
E100 1" = 40'-0"

GENERAL NOTES

1. USE 3/4" PVC C & Z#10, + 1 #10 GND CONDUCTOR FOR EXTERIOR POLE LIGHTING.
2. REFER TO AQUATIC DRAWINGS (A6) FOR SHUT-OFF DEVICES. USE ROBROY CONDUIT WHEN EXPOSED. VERIFY EXACT LOCATION & INSTALLION DETAIL WITH POOL EQUIPMENT SUPPLIER & ARCHITECT.

KEYNOTE LEGEND:

<<< INDICATES KEYNOTE ON PLAN

ES 01 RECEPTACLE AS CALLED OUT ON AQ DRAWINGS. VERIFY EXACT LOCATION WITH ARCH PRIOR TO ROUGH IN. SEE DETAIL 4/E100.

ES 02 PROVIDE (2) 2" CONDUIT FOR LOW VOLTAGE SERVICES. STUB TO EDGE OF PROPERTY LINE & VERIFY EXACT ROUTING WITH ARCHITECT.

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BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER
WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| MARK | DESCRIPTION | DATE |
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REGISTERED PROFESSIONAL ENGINEER
LEONARD S. SCHAFF
PE-2044
DATE 05/09/2023
NORTH DAKOTA

DRAWING TITLE
ELECTRICAL SITE PLAN

E100



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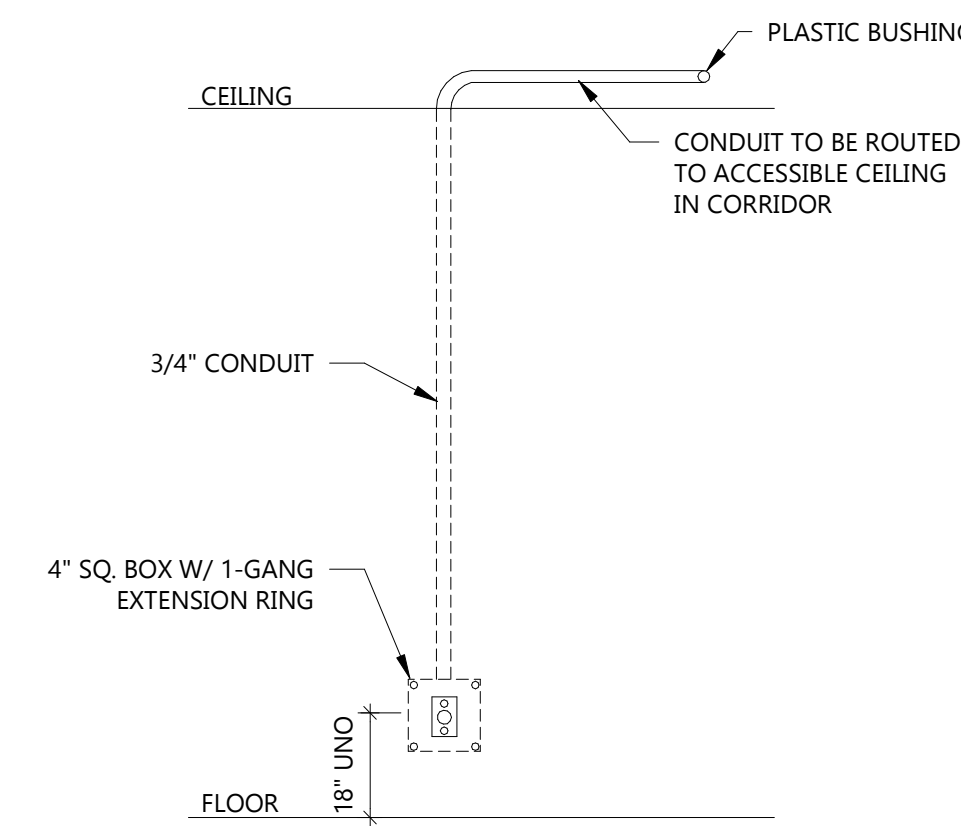
**FIRST FLOOR POWER
AND SYSTEMS**

GENERAL NOTES

- REFER TO AQUATIC DRAWINGS (A6) FOR DISC, VFDs CONNECTION, ETC FOR POOL EQUIPMENT MOTORS. INCLUDE ALL POOL ELECTRICAL IN BID.
- PROVIDE GALVANIZED UNISTRUT BRACKETS TO MOUNT VFD, STARTERS & DISCONNECTS.

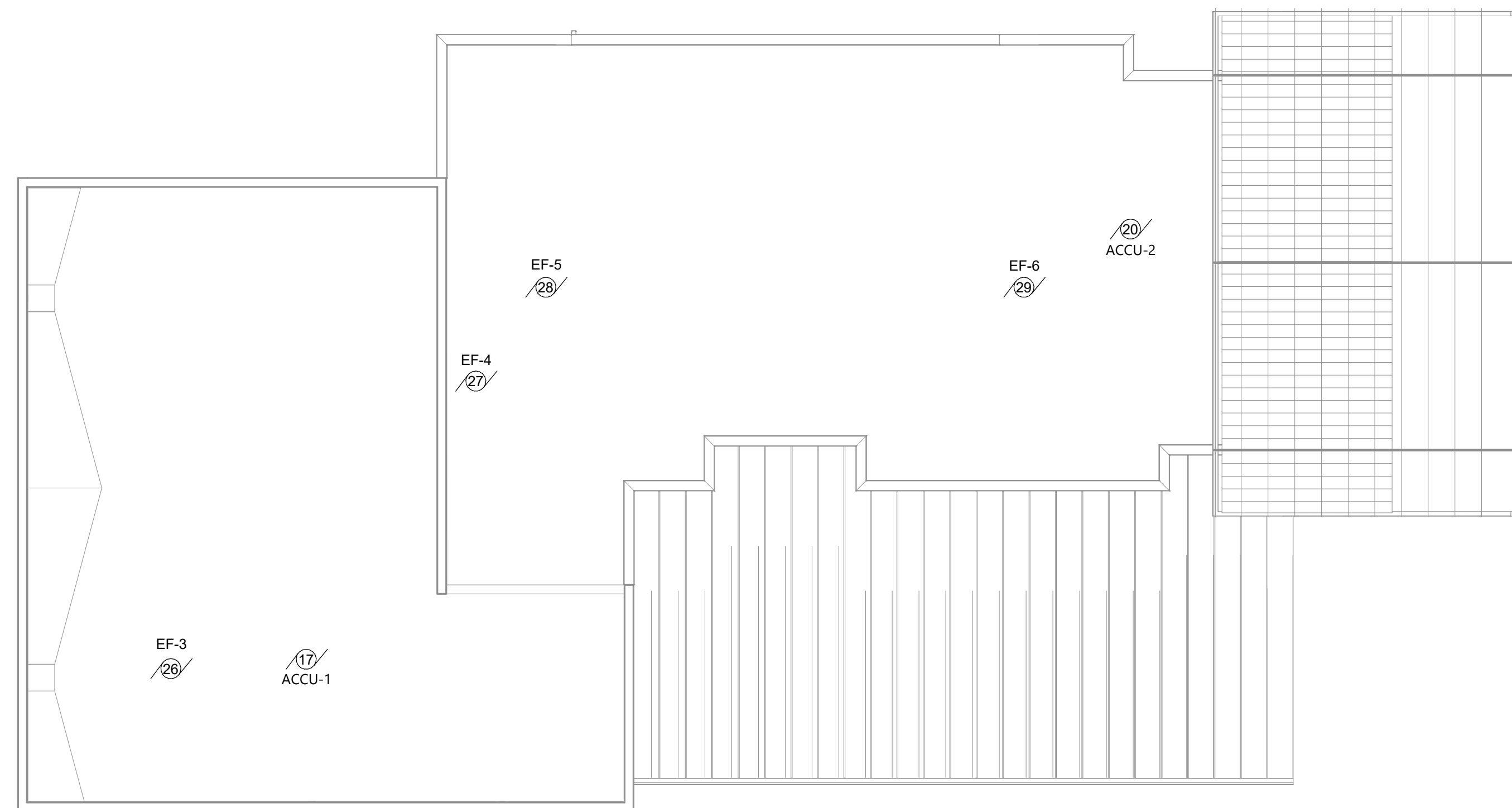
KEYNOTE LEGEND:

- << << INDICATES KEYNOTE ON PLAN
- EP 01 PROVIDE 8 FOOT HIGH, 3/4" THICK FIRE RETARDANT PLYWOOD PRIMED & PAINTED TWO COATS GREY ON WEST & NORTH WALLS FOR TELEPHONE EQUIPMENT & PANEL MOUNTING.
- EP 02 LOCATION MANUEL MOTOR STARTER FOR MOTORS #28 & 29.
- EP 03 PROVIDE (1) CAT5 PLENUM RATED CABLE TO TELEPHONE TERMINAL BOARD.
- EP 04 SWITCH OUTLET FOR POOL EQUIPMENT.
- EP 05 PROVIDE W.P. GFI RECEPTACLE AT APPROX. 7'-0". VERIFY EXACT LOCATION WITH ARCH.
- EP 06 PROVIDE FLUSH JUNCTION BOX WITH CAT5 CABLE & RG6 COAX CABLE IN 3/4" C BACK TO TELEPHONE TERMINAL BOARD. PROVIDE DATA OUTLET AS DIRTED BY OWNER. APPROX 7'-0".

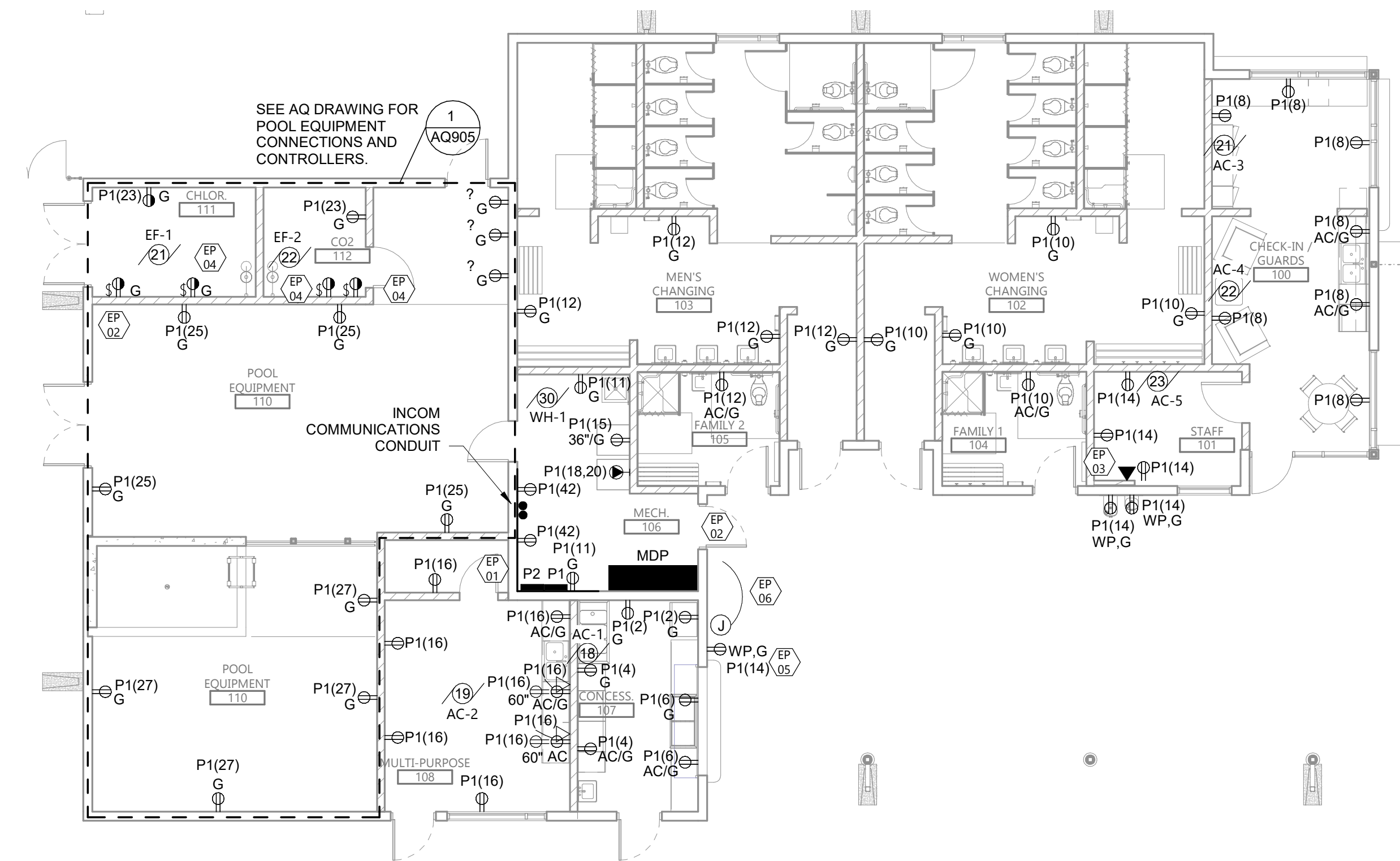


NOTE: WALL TELEPHONE MOUNTING HEIGHT IS 48" UNLESS NOTED OTHERWISE. WHERE THERE ARE ADJACENT DEVICES, MOUNT WALL TELEPHONE AT SAME HEIGHT

2 DATA/TELEPHONE ROUGH-IN DETAIL
1/8" = 1'-0"



3 ROOF POWER PLAN
1/8" = 1'-0"



1 FIRST FLOOR POWER & SYSTEMS PLAN
1/8" = 1'-0"

| LUMINAIRE SCHEDULE | | | | | | | | | | | |
|--------------------|--------------|---|------|------------|--------------|---------|------|--------|-------|-------|--|
| TYPE | MANUFACTURER | CATALOG NUMBER | LAMP | MOUNTING | LOCATION | VOLTAGE | CCT | LUMENS | WATTS | NOTES | DESCRIPTION |
| A | LITHONIA | CPANL | LED | RECESS | CEILING | 120 | 4000 | 4000 | 32.4 | | FLAT PANEL, WIPE DOWN RATED, 0-10V DIMMING |
| E1 | LITHONIA | EXRG | LED | RECESS | CEILING/WALL | 120 | | | 1 | | SINGLE AND DOUBLE FACE EXIT LIGHT, GREEN LETTERS WHITE FINISH, NIMH BATTERY. |
| L | LITHONIA | ZL1D L48 | LED | SURFACE | CEILING | 120 | 4000 | 5000 | 41 | | 48" STRIPLIGHT FIXTURE, 0-10V DIMMING, IP55 RATED |
| S | LITHONIA | CSV1 L48 | LED | SURFACE | CEILING | 120 | 4000 | 5000 | 42 | | STRIP LIGHT FIXTURE, IP65, IP66 RATED, 0-10V DIMMING |
| EM | LITHONIA | ELM1 LED 5D | LED | SURFACE | CEILING/WALL | 120 | | | | | BATTERY PACK |
| AA | LITHONIA | KAXW-LED-P1-50K-R4-120-PER-PIRH-DDBXD | LED | SURFACE | WALL | 120 | 5000 | 3707 | 29 | 1 | |
| BB | LITHONIA | (1)DSX2-P4-50K-T3M-208-RPA-PIRH-PE-DDXD/RTA-25-8J-TXXD... | LED | CONC. BASE | OUTSIDE | 208 | 5000 | 13,457 | 125 | 1,2 | |
| CC | LITHONIA | (2)DSX-2-P4-50K-T3M-208-RPA-PIRH-PE-DDXD/RTA-25-8J-TXX... | LED | CONC. BASE | OUTSIDE | 208 | 5000 | 26,914 | 250 | | |

NOTES:

- USE POLE DETAIL 3/E100
- TWO HEADS AT 90 DEGREES.
-
-

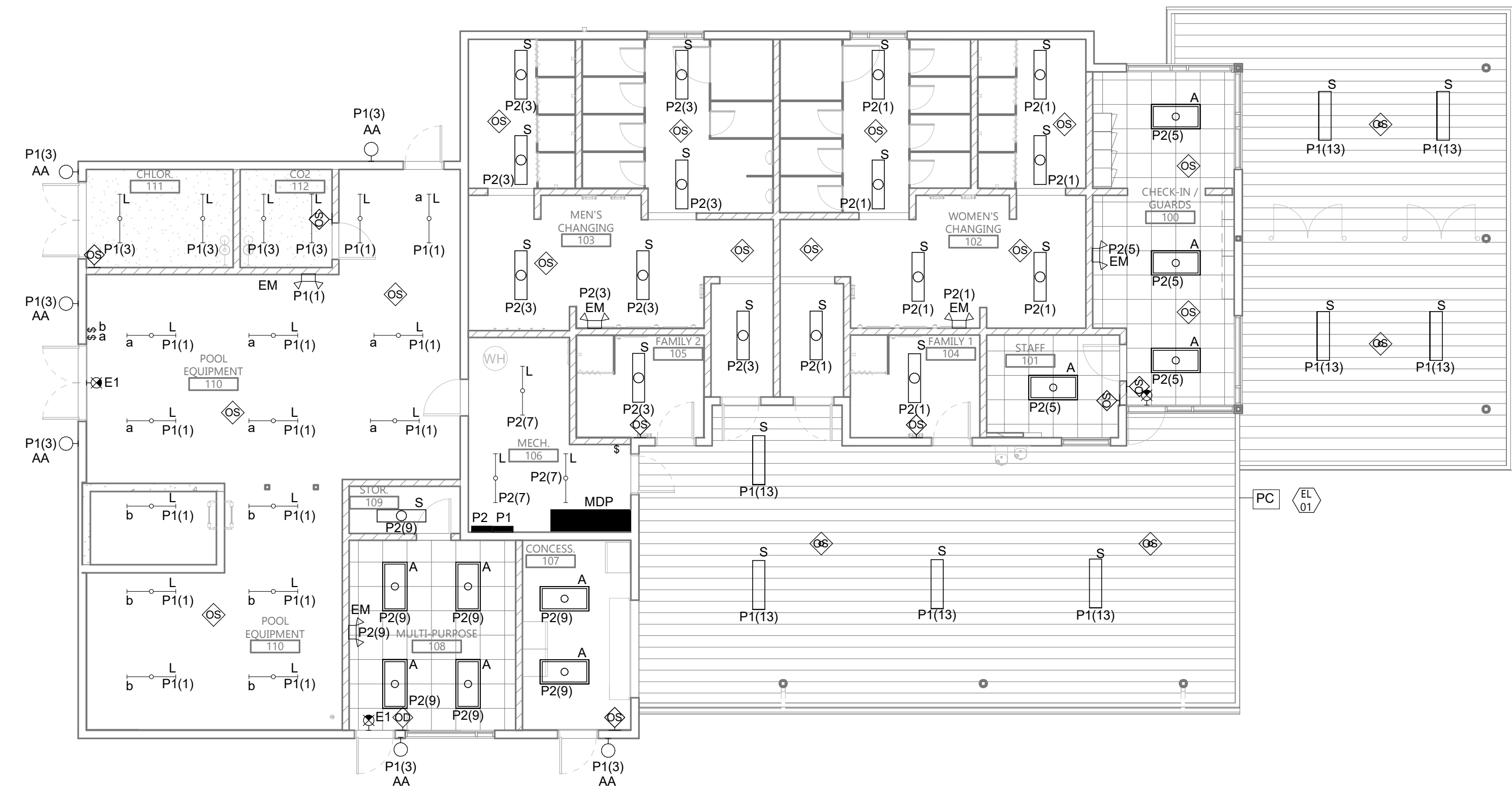
GENERAL NOTES

- NOTE 1
- NOTE 2

KEYNOTE LEGEND:

◊ << < INDICATES KEYNOTE ON PLAN

◊ EL 01 PROVIDE PHOTO SWITCH TO CONTROL CANOPY LIGHT CIRCUIT. COORDINATE MOUNTING WITH CONDITIONS.



1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

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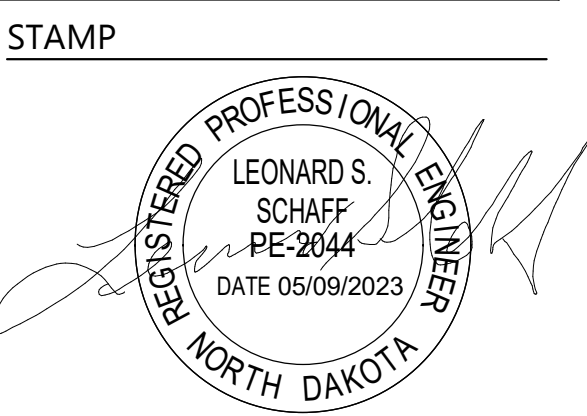
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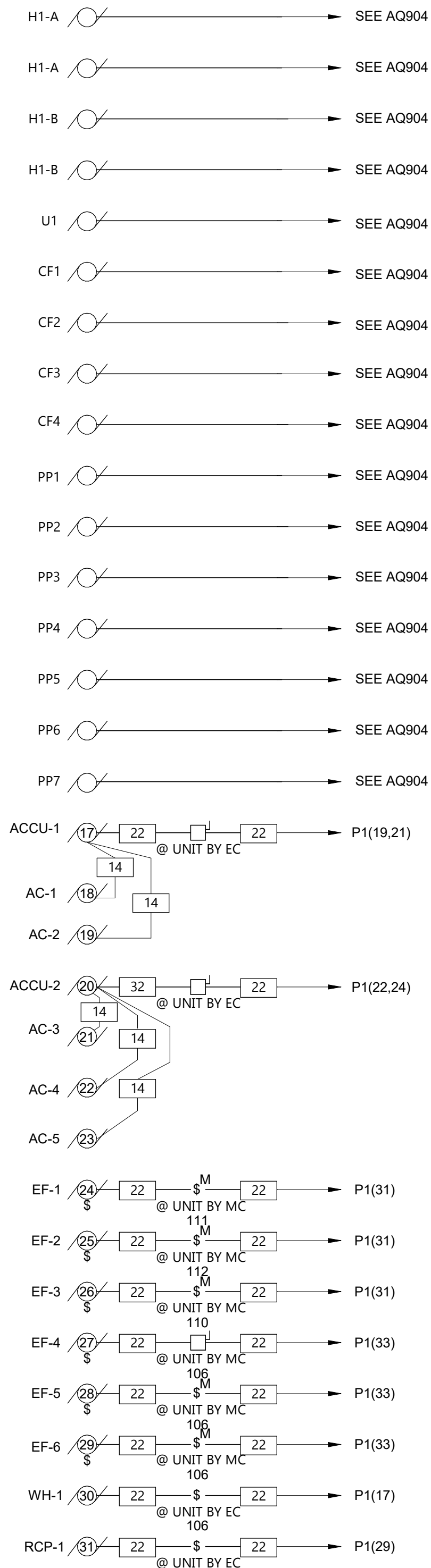
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DRAWING TITLE
FIRST FLOOR LIGHTING
PLAN

E301

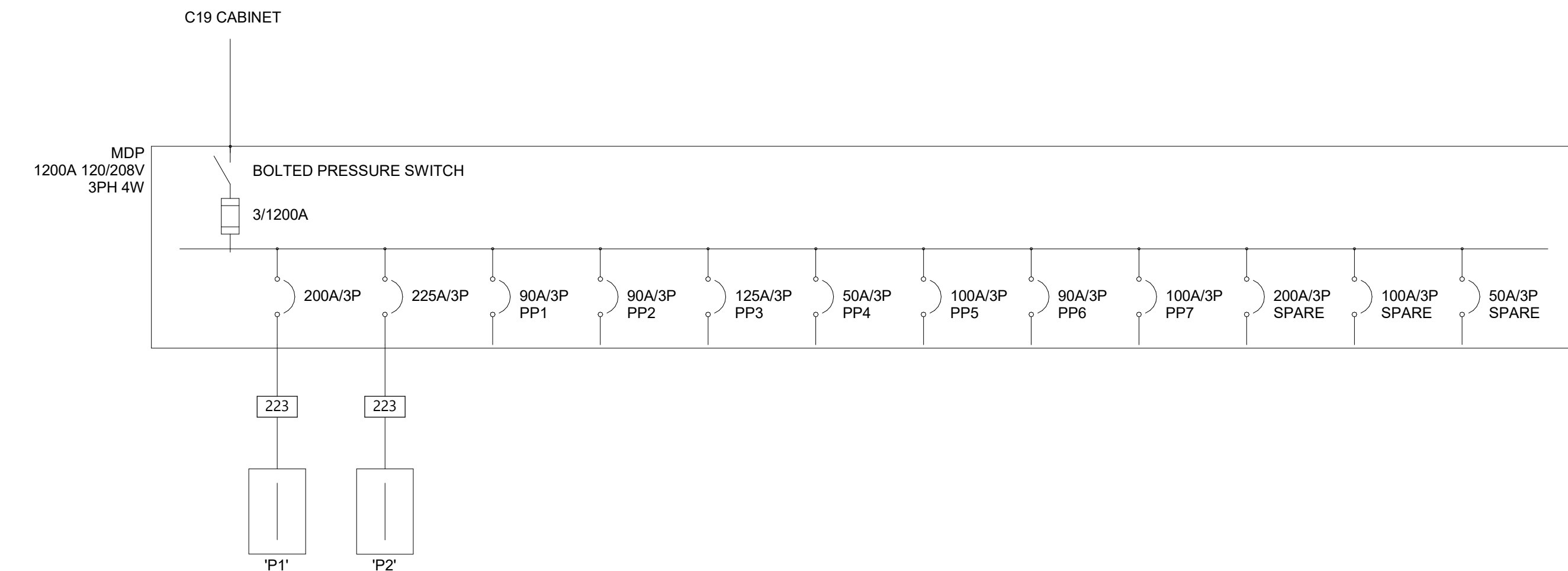
| FEEDER SCHEDULE | | |
|-----------------|------------|-------------------------------|
| AMPACITY | FEEDER TAG | CONDUIT & THHN WIRE 75°C |
| 15 | 14 | 3/4" C - 4 #14 & 1 #14 GND |
| 20 | 22 | 3/4" C - 2 #12 & 1 #12 GND |
| 30 | 32 | 3/4" C - 2 #10 & 1 #10 GND |
| 40 | 44 | 1" C - 4 #8 & 1 #10 GND |
| 70 | 73 | 1 1/4" C - 3 #4 & 1 #8 GND |
| 100 | 104 | 1 1/2" C - 4 #2 & 1 #8 GND |
| 200 | 204 | 2 1/2" C - 4 #3/0 & 1 #6 GND |
| 225 | 223 | 2 1/2" C - 3 #4/0 & 1 #4 GND |
| 400 | 404 | 4" C - 4 #500KCMIL & 1 #3 GND |



2 MOTOR RISER
E801 NOT TO SCALE

| MOTOR AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|---------|-----------------|------|---|------|------|-----|---------|--|---------|------|----|---------|---|--------------|------------|----|------------|-----------|------|------------|
| LEGEND: | | | | | | | | | | | | | | | | | | | | | | |
| CM-COMBINATION CB-CIRCUIT BREAKER EC-ELECTRICAL CONTRACTOR EX-EXISTING F-FUSED | | | | | M2-MAGNETIC TWO SPEED M-MAGNETIC MC-MECHANICAL CONTRACTOR MM-MANUAL NA-NOT APPLICABLE | | | | | NF-NON FUSED OW-OWNER PC-POOL CONTRACTOR TC-TEMPERATURE CONTRACTOR RF-ROOF | | | | | RM-ROOM RPB-REMOTE PUSHBUTTON SC-SELF CONTAINED VC-VENTILATION CONTRACTOR WP-WEATHERPROOFED | | | | | | | |
| DESCRIPTION | MOTOR # | FURN BY | LOCATION ROOM # | HP | KW | MCA | FLA | MOP | VOLTAGE | PH (Ø) | STARTER | | | CONTROL | | POWER WIRING | INTERLOCKS | | DISCONNECT | | | NOTES |
| | | | | | | | | | | | TYPE | SIZE | BY | BY | WIRING | | BY | TO | BY | SIZE/TYPE | NEMA | |
| H1-A | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| H1-A | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| H1-B | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| H2-B | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| U1 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| CF1 | | PC | CHLOR ROOM | | | | | | | | | | | | | | | | | | | 1 |
| CF2 | | PC | CHLOR ROOM | | | | | | | | | | | | | | | | | | | 1 |
| CF3 | | PC | CO2 ROOM | | | | | | | | | | | | | | | | | | | 1 |
| CF4 | | PC | CO2 ROOM | | | | | | | | | | | | | | | | | | | 1 |
| PP1 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP2 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP3 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP4 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP5 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP6 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| PP7 | | PC | POOL EQUIP RM | | | | | | | | | | | | | | | | | | | 1 |
| ACCU-1 | 17 | MC | CONCESSIONS | | | 10.9 | | 15 | 208 | 1 | | | | | TC | MC | EC | | | | EC | |
| AC-1 | 18 | MC | ROOF | | .038 | | | | | | | | | | TC | MC | EC | | | | EC | 30/2 NF 3R |
| AC-2 | 19 | MC | MULTI-PURPOSE | | .038 | | | | | | | | | | TC | MC | EC | | | | | |
| AACU-2 | 20 | MC | CONCESSIONS | | | 18.1 | | 25 | 208 | 1 | | | | | TC | MC | EC | | | | | |
| AC-3 | 21 | MC | CHECK-IN/GUARD | | .038 | | | | | | | | | | TC | MC | EC | | | | EC | 30/2 NF 3R |
| AC-4 | 22 | MC | CHECK-IN/GUARD | | .038 | | | | | | | | | | TC | MC | EC | | | | | |
| AC-5 | 23 | MC | GUARD | | .038 | | | | | | | | | | TC | MC | EC | | | | | |
| EF-1 | 24 | MC | CHOR 111 | 1/4 | | | 5.8 | | 115 | 1 | MM | | BC | TC | MC | EC | | | | | | |
| EF-2 | 25 | MC | CO2 112 | 1/4 | | | 5.8 | | 115 | 1 | MM | | | TC | MC | EC | | | | | EC | TOGGLE |
| EF-3 | 26 | MC | ROOF | 1/4 | | | 5.8 | | 115 | 1 | MM | | | TC | MC | EC | | | | | EC | |
| EF-4 | 27 | MC | ROOF | 1/10 | | | | | 115 | 1 | | | | | TC | MC | EC | | | | | |
| EF-5 | 28 | MC | ROOF | 1/4 | | | 5.8 | | 115 | 1 | MM | | | TC | MC | EC | | | | | EC | |
| EF-6 | 29 | MC | ROOF | 1/4 | | | 5.8 | | 115 | 1 | MM | | | TC | MC | EC | | | | | EC | |
| WH-1 | 30 | PC | MECH RM | | | | 11.0 | | 120 | | | | | | | | EC | | | | EC | TOGGLE |
| RCP-1 | 31 | MC | MECH RM | 1/20 | | | | | 120 | 1 | | | | | | | | | | | EC | TOGGLE |

- NOTES:**
- SEE DRAWING AQ905 FOR THE ELECTRICAL INFORMATION
 -
 -
 -
 -
 -



1 ONE-LINE DIAGRAM
E801 NOT TO SCALE



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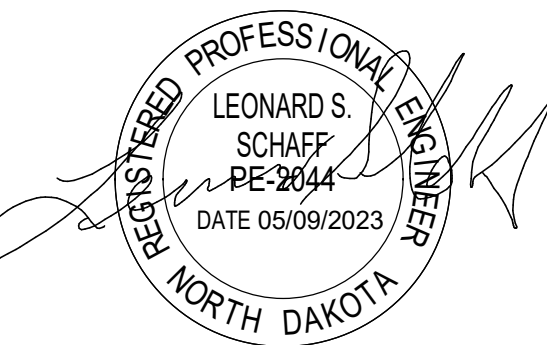
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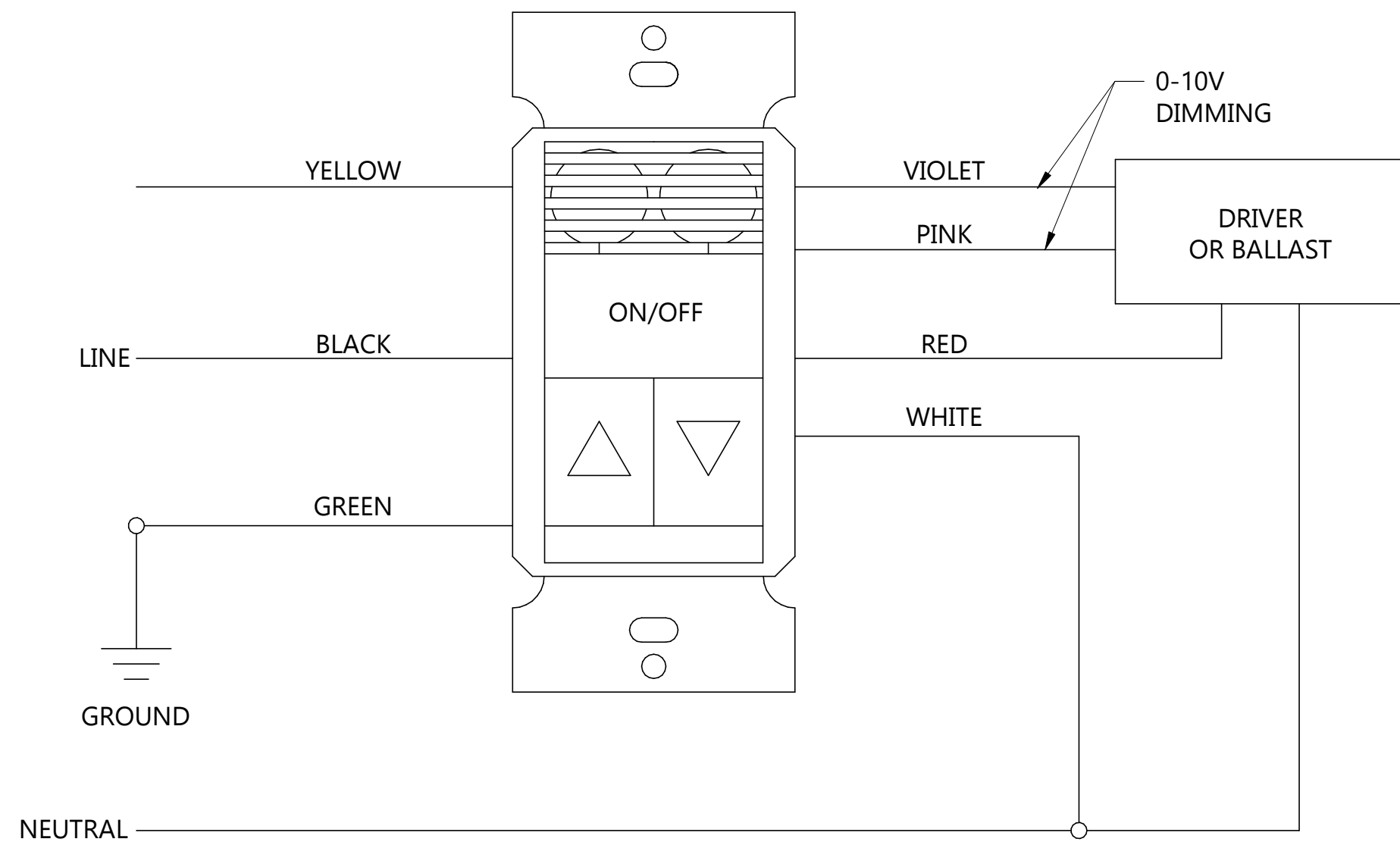
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**ONE-LINE DIAGRAM
AND MOTOR RISER**

E801



NOTE: REQUIRES CLASS 1 WIRING FOR 0-10V DIMMING

1 DUAL TECH SENSOR SWITCH OD WIRING DETAIL
E802 NOT TO SCALE

| LIGHTING CONTROL SCHEDULE | | | | | | | | | | | | |
|---------------------------|---------------|--------------|----------|---------|-----------|---------|-----|-----------|---------|-------|-------|---|
| SYMBOL | MANUFACTURER | CATALOG NAME | MOUNTING | | | VOLTAGE | | TYPE | | | NOTES | DESCRIPTION |
| | | | WALL | CEILING | ABOVE CLG | LINE | LOW | OCCUPANCY | VACANCY | OTHER | | |
| RCF | NLIGHT | NPP16 D EFP | X | | | | | | | | | DIGITAL DIMMER ROOM CONTROLLER, # INDICATES NUMBER OF RELAYS (CAT6) PROVIDE AS REQ'D. |
| DD | SENSOR SWITCH | WSXA-PDR-D | X | | | | X | | | | | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL DIMMING |
| DS | SENSOR SWITCH | CM PDT 9 | X | | | X | | X | | | | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ON/OFF SWITCH |
| OS | SENSOR SWITCH | CMR PDT 9 2D | | X | | X | | X | | | | CEILING MOUNTED DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR |

GENERAL NOTES:
A. ALL SENSORS ARE SHOWN FOR CONTROL PURPOSE ONLY; ADDITIONAL DEVICE/POWER MAY BE REQUIRED FOR A COMPLEX SYSTEM. VERIFY REQUIRED DEVICES WITH SYSTEM PROVIDER AND INSTALL COMPLETE SYSTEM.
B. WIRE LIGHTING CONTROL COMPONENTS PER MANUFACTURERS INSTRUCTIONS.

NOTES:
1. NUMBER REPRESENTS QUANTITY OF RELAYS PER DEVICE. SEE LIGHTING SHEETS FOR NUMBER OF RELAYS AND CONTROL ZONES. MULTI-RELAY ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY ROOM CONTROLLERS.
2. SEE SWITCH DETAILS FOR MORE INFORMATION ON SPECIFIC TIMECLOCK SWITCHES/DIMMERS BUTTON LAYOUT AND ENGRAVING.



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DRAWING TITLE
**LIGHTING SCHEDULES
& DETAILS**

E802

| BRANCH PANEL: P1 | | | | | | | | | | | | | |
|---------------------|-------------------------|------|-------|--------------------|---------|---------|---------|---------------------------|--------|-------|------|--------------------------------|-----|
| LOCATION: MECH. 106 | | | | VOLTS: 120/208 Wye | | | | A.I.C. RATING: 22,000 AIC | | | | | |
| SUPPLY FROM: MDP | | | | PHASES: 3 | | | | AVAIL. FAULT: | | | | | |
| MOUNTING: Surface | | | | WIRES: 4 | | | | MAINS RATING: 225A | | | | | |
| ENCLOSURE: Type 1 | | | | | | | | MAINS TYPE: MLO | | | | | |
| CKT | CIRCUIT DESCRIPTION | TRIP | POLES | A | | B | | C | | POLES | TRIP | CIRCUIT DESCRIPTION | CKT |
| 1 | LIGHTS | 20 A | 1 | 449 VA | 360 VA | | | | | 1 | 20 A | CONCESS: FRIDGE | 2 |
| 3 | LIGHTS | 20 A | 1 | | | 128 VA | 360 VA | | | 1 | 20 A | CONCESS: FRIDGE | 4 |
| 5 | RECEPT: EXTERIOR | 20 A | 1 | | | | | 1080 VA | 360 VA | 1 | 20 A | CONCESS: FRIDGE | 6 |
| 7 | SITE LIGHTING | 20 A | 2 | 0 VA | 1260 VA | | | | | 1 | 20 A | RECEPT: CHECK IN AND STAFF | 8 |
| 9 | RECEPT: MECH RM | 20 A | 1 | | | 0 VA | 900 VA | | | 1 | 20 A | RECEPT: WOMANS BATHROOM | 10 |
| 11 | LIGHTING: PATIO | 20 A | 1 | | | | | 360 VA | 900 VA | 1 | 20 A | RECEPT: STAFF ROOM AND OUTDOOR | 12 |
| 13 | RECEPT: WASHING MACHINE | 20 A | 1 | 328 VA | 900 VA | | | | | 1 | 20 A | RECEPT: MULTI-PURPOSE | 14 |
| 15 | WH-1 (#30) | 20 A | 1 | | | 180 VA | 1260 VA | | | 1 | 20 A | RECEPT: MULTI-PURPOSE | 16 |
| 17 | WH-1 (#30) | 20 A | 1 | | | | | 0 VA | 250 VA | 2 | 30 A | RECEPT: DRYER | 18 |
| 19 | ACCU-1 (#17) | 20 A | 2 | 1123 VA | 250 VA | | | | | | | | 20 |
| 21 | RECEPT: CHLOR AND CO2 | 20 A | 1 | | | 1123 VA | 0 VA | | | 2 | 20 A | ACCU-2 (#20) | 22 |
| 23 | RECEPT: POOL EQUIPMENT | 20 A | 1 | 720 VA | 0 VA | | | 360 VA | 0 VA | 1 | 20 A | SPARE | 24 |
| 25 | RECEPT: POOL EQUIPMENT | 20 A | 1 | | | 720 VA | 0 VA | | | 1 | 20 A | SPARE | 26 |
| 27 | RECEPT: POOL EQUIPMENT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 28 |
| 29 | RCP-1 (#31) | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 30 |
| 31 | EF-1-3 | 20 A | 1 | 2001 VA | 0 VA | | | | | 1 | 20 A | SPARE | 32 |
| 33 | EF-4-6 | 20 A | 1 | | | 1334 VA | 0 VA | | | 1 | 20 A | SPARE | 34 |
| 35 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 36 |
| 37 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 38 |
| 39 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 40 |
| 41 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 42 |
| TOTAL LOAD: | | | | 7356 VA | | 5999 VA | | 3310 VA | | | | | |
| TOTAL AMPS: | | | | 65 A | | 53 A | | 28 A | | | | | |

LEGEND:

| LOAD CLASSIFICATION: | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|----------------------|----------------|---------------|------------------|------------------------------------|
| Lighting | 904 VA | 125.00% | 1130 VA | |
| Motor | 5581 VA | 100.00% | 5581 VA | TOTAL CONN. LOAD: 16663 VA |
| Other | 1 VA | 100.00% | 1 VA | TOTAL EST. DEMAND: 16769 VA |
| Receptacle | 10220 VA | 98.92% | 10110 VA | TOTAL CONN: 46 A |
| | | | | TOTAL EST. DEMAND: 47 A |

NOTES:

| BRANCH PANEL: P2 | | | | | | | | | | | | | |
|---------------------|----------------------|------|-------|--------------------|---------|---------|------|---------------------------|---------|-------|------|----------------------|-----|
| LOCATION: MECH. 106 | | | | VOLTS: 120/208 Wye | | | | A.I.C. RATING: 22,000 AIC | | | | | |
| SUPPLY FROM: MDP | | | | PHASES: 3 | | | | AVAIL. FAULT: | | | | | |
| MOUNTING: Surface | | | | WIRES: 4 | | | | MAINS RATING: 225A | | | | | |
| ENCLOSURE: Type 1 | | | | | | | | MAINS TYPE: MLO | | | | | |
| CKT | CIRCUIT DESCRIPTION | TRIP | POLES | A | | B | | C | | POLES | TRIP | CIRCUIT DESCRIPTION | CKT |
| 1 | Lighting | 20 A | 1 | 329 VA | 0 VA | | | | | 1 | 20 A | SPARE | 2 |
| 3 | Lighting | 20 A | 1 | | | 329 VA | 0 VA | | | 1 | 20 A | SPARE | 4 |
| 5 | LIGHTS | 20 A | 1 | | | | | 161 VA | 0 VA | 1 | 20 A | SPARE | 6 |
| 7 | LIGHTS | 20 A | 1 | 96 VA | 0 VA | | | | | 1 | 20 A | SPARE | 8 |
| 9 | LIGHTS | 20 A | 1 | | | 282 VA | 0 VA | | | 1 | 20 A | SPARE | 10 |
| 11 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 12 |
| 13 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | 4J - POOL EQUIPMENT | 14 |
| 15 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | 2A - POOL EQUIPMENT | 16 |
| 17 | 2H - POOL EQUIPMENT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | 1A - POOL EQUIPMENT | 18 |
| 19 | H1A - POOL EQUIPMENT | 30 A | 1 | 3600 VA | 0 VA | | | | | 1 | 20 A | 1B - POOL EQUIPMENT | 20 |
| 21 | H1A - POOL EQUIPMENT | 20 A | 1 | | | 2400 VA | 0 VA | | | 1 | 20 A | 2B - POOL EQUIPMENT | 22 |
| 23 | H1B - POOL EQUIPMENT | 30 A | 1 | | | | | 3600 VA | 1440 VA | 1 | 20 A | U1 - POOL EQUIPMENT | 24 |
| 25 | H1B - POOL EQUIPMENT | 20 A | 1 | 2400 VA | 2400 VA | | | | | 1 | 20 A | CF1 - POOL EQUIPMENT | 26 |
| 27 | CF2 - POOL EQUIPMENT | 20 A | 1 | | | 2400 VA | 0 VA | | | 1 | 20 A | CF3 - POOL EQUIPMENT | 28 |
| 29 | CF4 - POOL EQUIPMENT | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 30 |
| 31 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 32 |
| 33 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 34 |
| 35 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 36 |
| 37 | SPARE | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | SPARE | 38 |
| 39 | SPARE | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | SPARE | 40 |
| 41 | SPARE | 20 A | 1 | | | | | 0 VA | 0 VA | 1 | 20 A | SPARE | 42 |
| TOTAL LOAD: | | | | 8805 VA | | 5384 VA | | 5193 VA | | | | | |
| TOTAL AMPS: | | | | 74 A | | 45 A | | 43 A | | | | | |

LEGEND:

| LOAD CLASSIFICATION: | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|----------------------|----------------|---------------|------------------|------------------------------------|
| Lighting | 1193 VA | 125.00% | 1491 VA | |
| Motor | 18240 VA | 100.00% | 18240 VA | TOTAL CONN. LOAD: 19381 VA |
| Other | 4 VA | 100.00% | 4 VA | TOTAL EST. DEMAND: 19666 VA |
| | | | | TOTAL CONN: 54 A |
| | | | | TOTAL EST. DEMAND: 55 A |

NOTES:

| NEW DISTRIBUTION PANELBOARD: MDP | | | | | | | | | | | |
|-------------------------------------|---------------------|-------|--------|--------------------|----------|----------|---------|---------------------------|--|--|--|
| LOCATION: MECH. 106 | | | | VOLTS: 120/208 Wye | | | | A.I.C. RATING: 45,000 AIC | | | |
| SUPPLY FROM: UTILITY | | | | PHASES: 3 | | | | AVAIL. FAULT: | | | |
| MOUNTING: FREESTANDING | | | | WIRES: 4 | | | | MAINS RATING: 1200A | | | |
| ENCLOSURE: SWITCHBOARD CONSTRUCTION | | | | | | | | MAINS TYPE: MSC. | | | |
| CKT | CIRCUIT DESCRIPTION | POLES | RATING | A | B | C | REMARKS | | | | |
| 1 | PANEL P1 | 3 | 200 A | 7356 VA | 5999 VA | 3310 VA | | | | | |
| 2 | PANEL P2 | 3 | 225 A | 8805 VA | 5384 VA | 5193 VA | | | | | |
| 3 | PP1 | 3 | 90 A | 7452 VA | 7452 VA | 7452 VA | | | | | |
| 4 | PP2 | 3 | 90 A | 7452 VA | 7452 VA | 7452 VA | | | | | |
| 5 | PP3 | 3 | 125 A | 11040 VA | 11040 VA | 11040 VA | | | | | |
| 6 | PP4 | 3 | 40 A | 3036 VA | 3036 VA | 3036 VA | | | | | |
| 7 | PP5 | 3 | 100 A | 7452 VA | 7452 VA | 7452 VA | | | | | |
| 8 | PP6 | 3 | 90 A | 5796 VA | 5796 VA | 5796 VA | | | | | |
| 9 | PP7 | 3 | 100 A | 7452 VA | 7452 VA | 7452 VA | | | | | |
| 10 | SPARE | 1 | 200 A | 0 VA | | | | | | | |
| 11 | SPARE | 1 | 100 A | 0 VA | | | | | | | |
| 12 | SPARE | 1 | 50 A | 0 VA | | | | | | | |
| CONNECTED LOAD: | | | | 65837 VA | 61060 VA | 58183 VA | | | | | |
| EXISTING LOAD: | | | | 0 A | 0 A | 0 A | | | | | |
| TOTAL AMPS: | | | | 552 A | 513 A | 485 A | | | | | |

NOTES :

- PROVIDE 4" CONCRETE PAD SHOW UNIT.
- MAX. DIMENSIONS 6'X4" W 24" D X 90" H.
- MAIN SWITCH SHALL BE A BOLTED PRESSURE SWITCH.



Architecture Engineering
Interior Design Industrial
TELE 701.609.5290 FAX 701.609.5290*51
313 Main Street, Suite 308, Williston ND 58901
www.eapc.net

CONSULTANTS



CLIENT
WILLISTON
COMMUNITY
BUILDERS

PROJECT DESCRIPTION
WILLISTON WATER
WORLD

CITY WILLISTON
STATE ND

ISSUE DATES

| CD | CONSTRUCTION DOCUMENT | 05/19/2023 |
|------|-----------------------|------------|
| DD | DESIGN DEVELOPMENT | 01/20/2023 |
| MARK | DESCRIPTION | DATE |

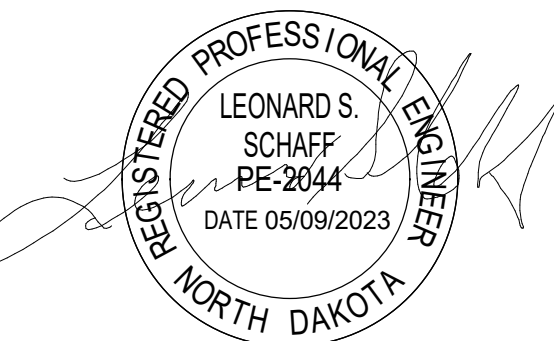
PROJECT NO: 20224620

DRAWN BY: RD/HN

CHECKED BY: LS

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STAMP



DRAWING TITLE
SCHEDULES

E901

CURRENT

| | | |
|---|-----------|------------------|
| Leisure Pool | \$ | 2,275,000 |
| Waterslide Package B | \$ | 672,972 |
| Spray/Play Feature Allowance | \$ | 250,000 |
| Miscellaneous Site Work | \$ | 1,933,625 |
| Buildings & Canopy's (3,916 SF) | \$ | 2,395,236 |
| Phase One Subtotal (Includes CMAR fee 4.28%) | \$ | 7,526,833 |

| | | |
|--|-----------|----------------|
| Preconstruction Fee (0.5%) | \$ | 37,634 |
| Construction Contingency (5.0%) | \$ | 376,342 |
| Escalation to 2nd Qtr 2023 (1.0%) | \$ | - |
| Construction Fee's + \$ Carried | \$ | 413,976 |

Accepted Alternates

| | | |
|------------------------------|-----------|------------------|
| Total GMP (Phase One) | \$ | 7,940,809 |
|------------------------------|-----------|------------------|

A/E Fees

| | | |
|-----------------------------------|-----------|------------------|
| A/E Fees Paid to Date | \$ | 476,448 |
| Soft Costs | | |
| Legal Expense | \$ | 825 |
| Soil Investigation | \$ | 10,000 |
| Site Survey | \$ | 20,000 |
| Reimbursable Expenses | \$ | 6,500 |
| Operational Costs (3 year) | \$ | 1,500,000 |
| Owner Contingency (5%) | \$ | 397,040 |
| FF&E | \$ | 150,000 |
| Total Estimated Soft Costs | \$ | 2,560,813 |

| | | |
|--|-----------|-------------------|
| Total Project Costs (Phase One) | \$ | 10,501,622 |
|--|-----------|-------------------|

| <u>Donor</u> | <u>Total</u> |
|--|--------------|
| Buck & Lois Scheele (Williston Industrail) | 2,600,000.00 |
| Marvene Larvick | 2,160,000.00 |
| Cleo Erickson | 500,000.00 |
| Williston Community Builders | 400,500.00 |
| American Legion | 360,000.00 |
| CHI St. Alexius Health Foundation | 250,000.00 |
| Williston Convention & Visitors Bureau, Inc. | 250,000.01 |
| First State Bank and Trust | 150,000.00 |
| Rich Vestal | 125,000.00 |
| Kathy Lynn Vestal | 125,000.00 |
| Noble Casing Inc | 110,000.00 |
| Calfrac Well Services Corp | 100,000.01 |
| N. J. & A., Inc. | 100,000.00 |
| ONEOK Foundation Inc | 100,000.00 |
| Cynthia Aafedt | 100,000.00 |
| Garrison Diversion Grant | 75,000.00 |
| Western Cooperative Credit Union | 75,000.00 |
| Empire Oil Company | 75,000.00 |
| 1st International Bank and Trust | 56,800.00 |
| Brigston Contracting LLC dba Brigston Electric | 51,000.00 |
| John Kasmer | 50,600.00 |
| Marcus & Patricia Lee | 50,000.00 |
| Dean Aafedt | 50,000.00 |
| Ritter, Laber & Associates, Inc. | 50,000.00 |
| CCP Properties, LLC (Basin/Cymbaluks) | 50,000.00 |
| Vincent Gaffney Foundation | 50,000.00 |
| MDU Resources | 50,000.00 |
| David & Bridget Kjorstad | 40,000.00 |
| Lewis and Clark | 37,548.43 |
| Jason & Kalliann Arnson | 30,000.00 |
| Janet Skadeland | 27,000.00 |
| American State Bank | 25,000.00 |
| James Powers | 25,000.00 |
| Tom and Cheryl Powers Family Fund | 25,000.00 |
| Triangle Electric, Inc. | 20,000.00 |
| Busy Bee's Hot Oil, Inc. | 17,000.00 |
| Roger & Paula Cymbaluk | 15,000.00 |
| The Aafedt Foundation, Inc. | 15,000.00 |
| Interstate Engineering (in-kind - survey and plat) | 14,400.00 |
| Manger Insurance, Inc. | 10,800.00 |
| Carol Jenson | 10,000.00 |
| Enbridge | 10,000.00 |
| Paulette Seaton | 10,000.00 |
| Troy & Kris Lippert | 10,000.00 |

| | |
|--|-----------|
| Walmart | 10,000.00 |
| Josh Otteson Memorial | 9,000.00 |
| Expanse Electrical | 8,000.00 |
| Prairie Winds Services, LLC | 7,500.00 |
| Coca-Cola of Williston | 7,500.00 |
| Richard & Suzanne Lasch | 7,500.00 |
| Sioux Energy | 7,000.00 |
| Messer Dental, PC | 6,000.00 |
| Moose Lodge 239 | 6,000.00 |
| NA | 5,825.07 |
| Various | 5,669.63 |
| Scenic Sports Little Lot, Inc. | 5,386.92 |
| American Engineering Testing, Inc. | 5,000.00 |
| Aafedt-McCabe Family Fund | 5,000.00 |
| T&J Agnes Theatres, Inc. | 5,000.00 |
| Aaron and Kristal Schmit | 5,000.00 |
| Christopher Jundt | 5,000.00 |
| First Lutheran Church | 5,000.00 |
| G&G Rx Inc. dba G&G Pharmacy | 5,000.00 |
| Marathon Community Investment Programs | 5,000.00 |
| Marilyn M Geyerman | 5,000.00 |
| Mike & Lori Erickson | 5,000.00 |
| Thomas & Dina Archipley | 5,000.00 |
| Williams County Abstract Company | 5,000.00 |
| Williston Basin Chapter API | 5,000.00 |
| Mitch Fearing | 4,550.00 |
| Stacy and Kelly Gunlikson | 4,350.00 |
| Connie J Ferrell | 3,000.00 |
| DC Power Tong, LLC | 2,800.00 |
| Douglas & Donnette Taylor | 2,500.00 |
| ASB Innovation Academy | 2,120.09 |
| BoDo's Appliance & Outdoor Living | 2,500.00 |
| David & Linda McAdoo | 2,500.00 |
| Mark & Kari Kringen | 2,500.00 |
| Lee Suess, LLC | 2,200.00 |
| Dorothy Westphal | 2,000.00 |
| Robert & Debora Kemp | 2,000.00 |
| Melyssa Ostler | 1,600.00 |
| Western Veterinary Clinic | 1,600.00 |
| Clarke & Associates, PC | 1,550.00 |
| Gene & Tamara Johnson | 1,500.00 |
| Busted Knuckle Brewery Williston LLP | 1,500.00 |
| Kenny Kukuk | 1,500.00 |
| Susan Helstad | 1,500.00 |
| Furuseth Olson and Evert, PC | 1,400.00 |
| Interstate Engineering | 1,400.00 |
| Ryan & Sarah Senderhauf | 1,400.00 |

| | |
|------------------------------------|----------|
| Scotty and Kristen Rehak | 1,500.00 |
| Cade Dorval | 1,300.00 |
| Billie Pippenger | 1,450.00 |
| Crowley Fleck, PLLP | 1,350.00 |
| Wayco Construction, LLC | 1,240.00 |
| Summer Nights on Main Dunk Tank | 1,053.00 |
| Ackerman-Estvold | 1,000.00 |
| Automotive Hail Specialist, LLC | 1,000.00 |
| Simonson Station Stores, Inc. | 1,000.00 |
| Basin Hearing Solutions | 1,000.00 |
| Damien Allen | 1,000.00 |
| David & Sharon Kupper | 1,000.00 |
| Dean Darby | 1,000.00 |
| Dr. Tony Fisher, Orthodontist | 1,000.00 |
| Gabriel Gratz | 1,000.00 |
| Gary & Patsy Levang | 1,000.00 |
| Green Thumb Weed Services, LLC | 1,000.00 |
| Greyson Mill | 1,000.00 |
| Grondahl Recreation, Inc. | 1,000.00 |
| Kent & Sandi Blikre | 1,000.00 |
| Land Shark Services, LLC | 1,000.00 |
| Live in Motion | 1,000.00 |
| M&H Well Service | 1,000.00 |
| Nemont Telephone Cooperative | 1,000.00 |
| Pacific Steel & Recycling | 1,000.00 |
| RGD Trucking, Inc. | 1,000.00 |
| Spark Monkey Fab & Design LLC | 1,000.00 |
| Spartan Alert, LLC | 1,000.00 |
| Western Skies Hot Shot & Transport | 1,000.00 |
| Williston Basin Eyecare | 1,000.00 |
| Williston State College Foundation | 1,000.00 |
| Annette Sluder | 900.00 |
| Arkota Energy, Inc. | 800.00 |
| B Safety Consulting and Training | 800.00 |
| Kent Reirson | 800.00 |
| Mchale & Brooke Maristuen | 800.00 |
| Nodak Oilfield Services | 800.00 |
| Red Rock Ford | 800.00 |
| Amanda Colebank | 770.00 |
| MRK Funancial Solutions, Inc | 750.00 |
| Bambinos, LLC | 700.00 |
| Boss Ladies | 700.00 |
| Lana Bracher | 700.00 |
| Hagan Elementary School | 688.00 |
| Glenn Olsen Golf Team | 600.00 |
| Howard Klug | 550.00 |
| DC Power Tong, LLC | 550.00 |

| | |
|---|--------|
| Terry & Joan Tofte | 550.00 |
| Pro Safe Services, Inc. | 550.00 |
| Palmer Bit Company Inc | 550.00 |
| Milestone Health Partners, LLC | 550.00 |
| Jon & Jill Irgens | 550.00 |
| Thomas John Irgens | 550.00 |
| Megan Wold | 550.00 |
| Christopher Grad | 550.00 |
| E Ward & Joetta Koeser | 550.00 |
| Ryan & Emily O'Rear | 550.00 |
| Westen B Houle | 550.00 |
| Western Skies Hot Shot & Transport | 550.00 |
| Oasis Petroleum | 550.00 |
| Audrey Kalil | 538.56 |
| Sasha Iverson | 538.56 |
| Ashley Hansen | 538.56 |
| Pit 105, LLC | 528.00 |
| Misc | 520.00 |
| All Source Plumbing, LLC | 500.00 |
| Big Game Investments, LLC | 500.00 |
| Callie Zeibarth | 500.00 |
| Dakota Fence | 500.00 |
| Impact Foundation | 500.00 |
| David & Lori Geltel | 500.00 |
| EAPC Architects Engineers | 500.00 |
| Frank and Karen Weisz | 500.00 |
| Gerald & Kim Gratz | 500.00 |
| Jer Bears Sno Shack | 500.00 |
| Karen Smith | 500.00 |
| Liberty Oilfield Services, LLC | 500.00 |
| Mountrial Williams Electric Coop | 500.00 |
| Neil and Paula Hagen | 500.00 |
| Precision Completions and Production Services | 500.00 |
| Richard & Janey Tangedal | 500.00 |
| Sabin Metal West Corp | 500.00 |
| Vintage & Classic Car Club | 500.00 |
| TNT Fireworks | 500.00 |
| Williston Parks & Rec | 484.50 |
| Ashley Weisz | 450.00 |
| Kent Lynch | 440.00 |
| INTEREST EARNED | 425.70 |
| Ramage Geltel Law Firm | 400.00 |
| Rick Albert | 400.00 |
| B Crack Sealing, LLC | 350.00 |
| Jacob & Kristin Stoltz | 350.00 |
| Robyn Beaudoin | 350.00 |
| Curtis A. Hansen | 350.00 |

| | |
|-----------------------------------|--------|
| Gloria Jordan | 350.00 |
| Jocelyn Rice | 342.54 |
| Miranda Bergstrom | 342.54 |
| Katie Shannon | 325.00 |
| Caffeinated | 300.00 |
| Chris Burke | 300.00 |
| Groth Family Trust | 300.00 |
| Kerry & Carol Hoffman | 300.00 |
| Rick & Lori Lee | 300.00 |
| GNLCC Summer After School Program | 251.00 |
| Phyllis Sylte | 250.00 |
| Susie Qs Ice Cream Truck, LLC | 250.00 |
| TruWealth Financial | 250.00 |
| William & Laura Carl | 250.00 |
| Windsong Contracting, LLC | 250.00 |
| CASH | 250.00 |
| Wayne and JoAnne Colebank | 250.00 |
| Lonnies Road House | 244.10 |
| Jason Slater | 240.00 |
| Amanda Kosior | 200.00 |
| Christrpher & Lisa Bean | 200.00 |
| Connie Rueb | 250.00 |
| Cynthia Aafedt | 200.00 |
| Dale Robertson | 200.00 |
| Eric Fee | 200.00 |
| Gene & Tamara Johnson | 200.00 |
| Leslie Bieber | 200.00 |
| Lyndsey McCoy | 200.00 |
| Richard (Ian) & Jessica Vestal | 200.00 |
| Sharlo Halvorson | 200.00 |
| Anonymous | 195.00 |
| Zachary McCoy | 190.00 |
| MISC | 171.00 |
| Trenton Berglee | 160.00 |
| Leslie and Mabel Colebank | 150.00 |
| Colby and Tarren Rehak | 125.00 |
| Credence Energy & Shift Services | 100.00 |
| Darwin and Deborah Stevens | 100.00 |
| Jaime Tamez | 100.00 |
| Jessica Bimgemanvestal | 100.00 |
| Joe Barsh | 100.00 |
| James & Lisa McKenzie | 100.00 |
| Michael & Holly Tkachyk | 100.00 |
| Pam Ramage | 100.00 |
| Paula & Russell Schilke | 100.00 |
| Sandy Blinke | 100.00 |
| Shawn Wenko | 100.00 |

| | |
|------------------------|-------|
| Beth Hokanson | 50.00 |
| Bridgette D Washington | 50.00 |
| Dan Weber | 50.00 |
| Jeabs Thai Food LLC | 50.00 |
| Kassie Gorder | 50.00 |
| Carmine Megaro | 50.00 |
| Ken Kjos | 50.00 |
| Meri Lombardi | 50.00 |
| Ronelle Gravgaard | 50.00 |
| Cash Donation | 51.00 |
| Darcy Olsen | 30.00 |
| Kayla Wilson | 25.00 |
| Slaters | 25.00 |
| Gage & Brianna Clem | 20.00 |
| Greg Everson | 20.00 |
| Dawn Hustad | 15.00 |
| Lacey Hendrickson | 10.00 |
| Paige Monzon | 10.00 |
| Steph Johnson | 5.00 |

8,732,262.22



June 5, 2023

Williston Community Builders,

On behalf of the Williston Parks & Recreation District, I am happy to announce our support for the Williston Community Builders' ongoing fundraising for Williston Water World, a new outdoor pool, to be constructed in Williston. WPRD is a strong supporter of Williston Water World and maintains every intention of operating the pool once it has been completed and turned over to the Park District. WPRD is very appreciative of the Community builders for supporting the Park District through endeavor, enabling us to continue to serve our mission of providing "Superior parks, facilities and programs for all to enjoy an active life."

Sincerely,

Joe Barsh MBA, CPRP
Executive Director
Williston Parks & Recreation District
701-774-9773 Office
701-770-9767 Cell
www.Willistonparks.com



Letter of Support, Williston Community Builders
Williston Water World
May 31, 2023

To Whom It May Concern:

Since their inception, The Williston Community Builders have been an overwhelmingly positive presence in the Williston Community. Their countless fundraising efforts, most notably the annual Festival of Trees, have benefited a variety of non-profits, organizations and individuals, helping to make The City of Williston a better place.

With the closure of the city's only outdoor pool nearly 10 years ago, the citizens of Williston have been hoping for another option for outdoor recreation. Thanks to the Williston Community Builder's efforts and partnerships, that vision is close to becoming a reality in the form of Williston Water World. The Community Builders have put forth considerable time and effort to raise the funds needed to bring this project to fruition and are very close to reaching that goal.

The City of Williston fully supports the Williston Water World project and the Community Builders' ongoing fundraising efforts. That support has included working with Williston Basin School District 7 to provide the best property for the pool, in a location that is accessible for all of Williston's residents and welcoming to those traveling to the City of Williston.

This project will be a major positive for the residents of Williston and benefit the community in a number of ways. This project will not only give our residents another outdoor recreation option during the warmer months but will become a place for our community members to gather, socialize and connect with their neighbors, as well as encouraging those in surrounding communities to visit the City of Williston.

I ask that you give the Williston Community Builders your support as they continue to promote community, kindness and charity as they endeavor to bring this and other worthwhile projects to our community to improve the overall quality of life for our residents.

Sincerely,

A handwritten signature in blue ink, appearing to read "Howard Klug", written over a light blue horizontal line.

Howard Klug
President, City of Williston Board of Commissioners



June 6, 2023

RE: Williston Community Builders Water World Project

To Whom It May Concern:

The Williams County Board of County Commissioners supports the determined efforts of the Williston Community Builders to bring an outdoor pool to the Williston community.

Over the past decade the population of Williams County has nearly doubled, which has increased the demand for family-friendly recreational activities. Most of this growth has occurred in Williston.

In the early 2010's, due to a boom in the oil and gas industry, northwestern North Dakota had a highly transient population. Over time, as the industry leveled out again, and new industries are looking to make Williams County their home base, many workers are bringing their families and planning to stay awhile. To maintain a high quality of life as we continue to attract workforce, and also meet the needs of a diverse population, organizations such as the Community Builders, are diligently working to create a welcoming experience in Williams County.

Williams County encourages you to support the Water World project through grant funding to help bring this project to fruition.

Thank you for your consideration,

Cory Hanson
Chairman, Williams County Board of County Commissioners

WILLIAMS COUNTY BOARD OF COUNTY COMMISSIONERS

First District – Beau Anderson | Second District – Steve Kemp | Third District – Cory Hanson
Fourth District – David Montgomery | Fifth District – Barry Ramberg

PO Box 2047 | 206 E. Broadway | Williston, ND 58802-2047 | Phone 701.577.4500 | Fax 701.577.4570 | www.williamsnd.com



(701)572-1580 phone
(701)572-3547 fax

Williston Basin School District #7

1201 9th Ave NW
P.O. Box 1407
Williston, ND 58802

www.willistonschools.org

5-26-23

Williston Community Builders
PO Box 2720
Williston, ND 58802

RE: Letter of support for Williston Community Builders Fundraising

Greetings,

It is my pleasure to write a letter in support of the ongoing fundraising the Williston Community Builder's have been doing to construct a waterpark for the community of Williston. The creation of a waterpark will have many benefits for the community and for our students. Water play releases energy, promotes cognitive development, supports the development of motor and social skills and can stimulate communication, creativity and imagination.

WBSD 7 supports any application for funding through grants to finalize the completion of the waterpark. We ask that you give this your full consideration. If you have any questions you may contact me at Richard.Faidley@willistonschools.org

Sincerely,

Richard H. Faidley
Williston Basin School District 7
Superintendent of Schools



EIGHT MILE PUBLIC SCHOOL DISTRICT NO. 6

P.O. Box 239
Trenton, North Dakota 58853

Phone: 701-774-8221
Fax: 701-774-8040

District Website
www.trenton.k12.nd.us

Facebook Page
[@trentonschool](https://www.facebook.com/trentonschool)

May 12, 2022

Dear Williston Pool Action Committee,

The Eight Mile School District and Trenton School is excited to provide this letter of support for Williston's outdoor pool project being promoted by the Williston Pool Action Committee.

Trenton School very much supports initiatives that work to promote community and regional bonds and, as a part of the Williston region, we know that our community will benefit from this addition to Williams County.

As strong supporters of life-long wellness, we recognize the benefits that a community pool can provide, including but not limited to the following:

- Getting people outside in the summer!
- Providing an opportunity for kids to make new friends.
- Teaching kids of ALL ages how to swim and be safe in the water.
- Encouraging fitness for individuals as well as the whole family.
- Increasing public safety by providing fun and wholesome experiences.
- Providing life-saving instruction opportunities.
- Promoting business and community partnerships.
- And much more!

Outdoor swimming areas truly are assets for the entire community and this project has the support of our school district!

Sincerely,

Matt Schriver, Superintendent

Williston Office
222 University Ave.
58801
609-5681



Williston, ND
Phone: (701)

<https://www.gnwec.org/> | werc.center@wercenter.com

To Whom it may concern:

As the new Executive Director of the Western Education Regional Cooperative, I am writing this letter to give my full support to the Williston Outdoor Waterpark Project. I have served as the Superintendent of Schools in Ray, ND for the past ten years and in that time my family and many other families from Ray have used a plethora of services and taken advantage of many opportunities provided in Williston.

I believe this project will be no different. To have opportunities like this in our region is a not only a buoy to all surrounding communities economically, they add quality of life and healthy fun for families to partake in.

The opportunity to be outside, enjoy the summer, and have fun in Williston would be a huge value add to the region. I fully support this project and hope to be able to use the waterpark with my family in the near future! Please feel free to contact me at ben.schafer@werccenter.com with any questions you might have.

Thank You,

Benjamin L. Schafer, Executive Director, WERC Center



GRENORA PUBLIC SCHOOL DISTRICT NO. 99

PO Box 38 ~ 402 Robinson Street ~ Grenora, ND ~ 58845-0038

Phone: 701.694.2711 • Fax: 701.694.2717

8/10/2022

Dear Williston Pool Action Committee,

Grenora Public School is happy to provide this letter of support for the Williston's outdoor pool project being promoted by the Williston Pool Action Committee.

Grenora School supports all initiatives that promote community and regional bonds. As part of the Williston region, we know that our community will benefit from this addition to Williams County.

The Community Club in Grenora currently buses children to area pools throughout the summer months. The addition of an outdoor swimming area in Williston will add another location for them to attend. Outdoor swimming areas are an asset for the entire community and this project has the support of our school district.

Sincerely,

Aaron Rudningen
Superintendent
Grenora Public Schools
aaron.rudningen@gpsd99.org
(701) 694-2711

Superintendent - Mr. Aaron Rudningen
K-12 Principal - Mr. Joseph Paine
Athletic Director - Mr. Lampert
Business Manager - Jennifer Wade

School Board
Carrie Edward, President Mitch Lundby, Vice-President
Laverne Johnson - Rick Foss - Nicole Berg
Dave Pittenger - Jeremy Wright