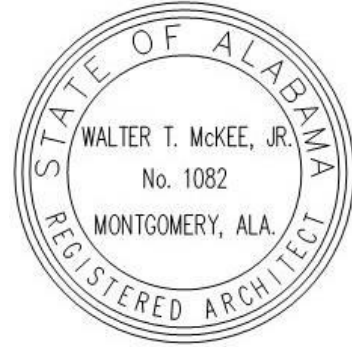


**Addendum No. 4**  
**Date: July 26, 2024**



Project:

**NEW SOFTBALL COMPLEX AT  
DAPHNE HIGH SCHOOL  
FOR THE BALDWIN COUNTY BOARD OF EDUCATION  
DAPHNE, ALABAMA**

**MCKEE PROJECT NO. 23.199**  
**ALABAMA DIVISION OF CONSTRUCTION MANAGEMENT NO. 20240198**

The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on the Proposal Form.

**A4.1 GENERAL MODIFICATIONS:**

- A. Refer to attached **Section 00031 Table of Contents (Revised 07.26.2024)**, herein.

**A4.2 SPECIFICATION MODIFICATIONS:**

- A. Refer to Section **02791 Heat Reducing Top Dressing (Revised 07.26.2024)**, herein.
- B. Refer to Section **07411 Metal Wall Panels**, herein.
- C. Refer to Section **08220 Fiberglass Reinforced Plastic Doors and Frames (Revised 07.26.2024)**, herein.
- D. Refer to **Section 08330 Coiling Doors**, herein.
- E. The following manufacturers are hereby approved subject to the plans and specifications:
  - 1. Section **02789 Synthetic Turf and Drainage Field**:
    - a. Xtreme Turf, Austin TX; Ph. 512-733-5300
  - 2. Section **08520 Aluminum Impact Single Hung**:
    - a. All Seasons (Model 3250), Bryan TX; Ph. 800-444-1444
  - 3. Section **08700 Finish Hardware**:
    - a. Southern Sash (supplier), Montgomery, AL; Ph. 334-265-3521
  - 4. Section **13416 Bleachers and Pressbox**:
    - a. Dant Clayton (Alum-A-Stand), Louisville, KY; Ph. 502-634-3626
    - b. Sturdisteel Company; Hewitt, TX; Ph. 800-433-3116

**A4.3 DRAWING MODIFICATIONS:**

- A. See the attached Revised Drawings as follows:
  - 1. Sheet **C1.1 (Revised 06.19.24)**, herein.

2. Sheet **C2.0 (Revised 07.12.24)**, herein.
3. Sheet **C2.1 (Revised 07.12.24)**, herein.
4. Sheet **C2.2 (Revised 06.19.24)**, herein.
5. Sheet **C2.3 (Revised 07.12.24)**, herein.
6. Sheet **C2.4 (Revised 07.12.24)**, herein.
7. Sheet **C2.5 (Revised 07.12.24)**, herein.
8. Sheet **C3.0 (Revised 06.20.24)**, herein.
9. Sheet **C3.1 (Revised 06.19.24)**, herein.
10. Sheet **C3.3 (Revised 06.19.24)**, herein.
11. Sheet **C3.4 (Revised 06.19.24)**, herein.
12. Sheet **C5.0 (Revised 06.20.24)**, herein.
13. Sheet **C5.1 (Revised 06.20.24)**, herein.
14. Sheet **C6.0 (Revised 06.19.24)**, herein.
15. Sheet **C6.1 (Revised 06.19.24)**, herein.
16. Sheet **TYPICAL SCOREBOARD SUPPORT COLUMN AND FOUNDATION DETAIL** herein.
17. Sheet **A1.1 (Revised 07.26.24)**, herein.
18. Sheet **A4.2 (Revised 07.26.24)**, herein.
19. Sheet **P1.1 (Revised 07.10.24)**, herein.
20. Sheet **P1.2 (Revised 07.10.24)**, herein.
21. Sheet **P2.1 (Revised 07.10.24)**, herein.
22. Sheet **P2.2 (Revised 07.10.24)**, herein.
23. Sheet **P3.1 (Revised 07.10.24)**, herein.
24. Sheet **P3.2 (Revised 07.10.24)**, herein.
25. Sheet **M1.1 (Revised 07.10.24)**, herein.
26. Sheet **E0.1 (Revised 07.10.24)**, herein.
27. Sheet **E1.1 (Revised 07.22.24)**, herein.
28. Sheet **E1.2 (Revised 07.10.24)**, herein.
29. Sheet **E1.3 (Revised 07.10.24)**, herein.
30. Sheet **E2.1 (Revised 07.10.24)**, herein.
31. Sheet **E3.1 (Revised 07.22.24)**, herein.
32. Sheet **E3.2 (Revised 07.10.24)**, herein.

#### **A4.4 CLARIFICATIONS & RESPONSES:**

- A. See the following responses to RFI questions received from Contractor's

**Question 1:** Please provide the overhead door spec section..

**Answer 1:** Will be provided in addendum.

**Question 2:** I see there are (2) foul poles called out on A0.1. I see in the specs part -B. Baseball – FPW640 – 40ft aluminum foul pole above ground but the drawings A0.1 shows the foul pole being 30'. Please advise which is correct.

**Answer 2:** 30' Foul pole.

**Question 3:** Please provide drawing details for the foul pole and the tension pole..

**Answer 3:** Details provided per manufacturer – see specs.

**Question 4:** What material would the tension pole be and how tall?

**Answer 4:** Site plan calls for 30'h. backstop netting system.

**Question 5:** The fire alarm calls for the new system to tie into the existing system. The existing system is Johnson Controls. I assume we are going to have to use JCI in order to network with the existing system. Can you verify?.

**Answer 5:** Fire alarm shall be stand alone.

**Question 6:** Fire alarm is to be tied into existing system. Both the concession and the fieldhouse will need fiber running back to the existing FA system. Plans tell us to reference the electrical site drawing for the location but no location or conduits are shown for this. Can you find out where we are to run these conduits for fiber?

**Answer 6:** Fire alarm shall be stand alone.

**Question 7:** The fire alarm riser notes state that all work associated with the intercom shall be included in the bid price. I see nothing regarding the intercom. Can you let me know if there is one associated with this project? I do see the PA speakers but there is a note on E1.1 stating that all PA system wiring will be furnished and installed by PA vendor.

**Answer 7:** Intercom system is not included in the scope of this project. PA system speakers and wiring shall be provided by the contractor per specifications sheet E0.2.

**Question 8:** Advertisement for bid states bid bond should be issued to: Baldwin County Public Schools. Owner is identified in other areas of specs as: Baldwin County Board of Education. Please confirm if Baldwin County Public Schools is correct for bid bond.

**Answer 8:** Correct.

**Question 9:** The written specifications 11400 call only for an ice machine model F-450MAJ-C. The drawings state to see allowances. Are the ice machines to be included in the contingency allowance for the concession stand and fieldhouse or bid separately?

**Answer 9:** Ice machines shall be included in contingency.

**Question 10:** The drawing calls for 10" high aluminum letters. Specifications call for 15" letters. Please advise.

**Answer 10:** Provide letters per drawing.

**Question 11:** Specs call for two different types of fire extinguishers – multi-purpose chemical type and class k wet chemical type. Which is required for this project?

**Answer 11:** Provide one type "K" extinguisher for the concession area. Multi-purpose all other areas where called for.

**Question 12:** Sheet A1.1 has a specialties legend, but the floor plan only identifies FEC. Please provide floor plan identifying other specialties noted.

**Answer 12:** Will be included in addendum.

**Question 13:** Please specify the color and type of granite to be included in the project for the countertops, side splashes, and back splashes. I have not seen any architect color samples to this date. Thanks.

**Answer 13:** Color to be selected during construction.

**Question 14:** Per reviewing the drawing set and project manual dated 6/4/24, there are no details or specifications identifying the dimensions of the foundations for the scoreboard or light poles. Please provide details showing dimensions and depth from finished grade of the concrete footings that support the scoreboard and light poles.

**Answer 14:** Scoreboard foundation will be included in next addendum. Light pole foundation design is by provider.

**Question 15:** What kind of metal panels are they wanting for the batting structure?

**Answer 15:** Long Span III (L3P) panel by American buildings company/A Nucor Company – will be included in addendum.

**Question 16:** Plans call for the cricket to be framed from wood on the fieldhouse membrane roof area, the specs call for tapered insulation.

**Answer 16:** Cricket to be framed.

**Question 17:** Specs call for a minimum R-25 ISO insulation under the membrane roofs, is this necessary considering they are open construction?

**Answer 17:** ISO insulation not required.

**Question 18:** Is the overhead coiling door to be insulated or non-insulated? Is it manual or motor-operated?

**Answer 18:** Insulated and manual. Spec to be included in addendum.

**Question 19:** Drawings call out 12" perimeter pipe, specs call out 8". What size is to be installed?

**Answer 19:** 12" perforated pipe shall be used for perimeter pipe.

**Question 20:** Drawings show flat drains to be daylighted into perimeter trench, specs call for direct connect. Which one is correct?

**Answer 20:** Flat drains shall be daylighted into perimeter trench.

**END OF ADDENDUM**



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# New Softball Complex at Daphne High School for the Baldwin County Board of Education Daphne, Alabama

Project No: **23.199**

### **BIDDING REQUIREMENTS**

- Advertisement For Bids
- Instructions to Bidders (DCM Form C-2 August 2021)
- Request For Information (McKee Form)
- Prior Approval/Substitution Request Form (McKee Form)
- Proposal Form (DCM Form C-3 August 2021)
- Form Of Bid Bond (DCM Form C-4, August 2021)
- Special Instructions to Bidders (McKee Form April 2024)

### **CONTRACT FORMS**

- Preparation and Approval of Construction Contracts and Bonds (DCM Form B-7 July 2022)
- Construction Contract (DCM Form C-5, December 2021)
- Performance Bond (DCM Form C-6, August 2021)
- Payment Bond (ABC Form C-7, August 2021)
- General Conditions of the Contract (DCM Form C-8, Revised October 2022)
- Instructions for Contractor's Insurance Company (Article 37 of DCM Form C-8, Revised October 2022)
- Supplement to General Conditions of the Contract (McKee Form April 2024)
- State of Alabama Disclosure Statement Form, Required by Article 3B of Title 41, Code of Alabama 1975(Revised 09/2013) with Information and Instructions regarding Relationships Between Contractor/Grantees and Public Officials/Employees.
- Alabama Department of Revenue – Sales and Use Tax Division – Application for Sales and Use Tax Certificate of Exemption (ST:EX-01 June 2021)
- State of Alabama E-Verify Memorandum of Understanding Instructions (Revised August 2021) *with* ABC Bulletin (May 29, 2012) *and* Revised Alabama Immigration Law Guidance for School Boards (Revised May 2012).
- Alabama Department of Finance, Real Property Management – Division of Construction Management – Permit Fee & Permit Re-Inspection Fee Calculation Worksheet (December 2021)

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## **GENERAL CONDITIONS**

- Pre-Construction Conference Checklist (DCM Form B-8 June 2023)
- Detail Of Project Sign (DCM Form C-15, Revised December 2021)
- Application and Certificate for Payment (DCM Form C-10, Revised July 2022)
- Schedule Of Values, (DCM Form C-10SOV, Revised October 2021) Attachment to DCM Form C-10
- Inventory Of Stored Materials, (DCM Form C-10SM, Revised October 2021) Attachment to DCM Form C-10
- Progress Schedule and Report (DCM Form C-11, August 2021)
- Change Order Checklist, (DCM Form B-12, August 2021) For Use with DCM Form C-12
- Contract Change Order (DCM Form C-12 (fully locally funded K-12 Schools), August 2021)
- Change Order Justification (DCM Form B-11, August 2021) Attachment to DCM Form C-12
- General Contractor's Roofing Guarantee (DCM Form C-9, August 2021)
- Certificate of Substantial Completion (DCM Form C-13 & 13A, Revised November 2022)
- Form of Advertisement for Completion (DCM Form C-14, August 2021)
- Certification of Structural Observation (DCM Form B-14 Revised December 2021)
- Final Payment Checklist (DCM Form B-13, Revised October 2022)
- Contractor's Affidavit of Payment of Debts and Claims (DCM Form C-18, August 2021)
- Contractor's Affidavit of Release of Liens (DCM Form C-19, August 2021)
- Consent of Surety to Final Payment (DCM Form C-20, August 2021)
- Form of Advertisement for Completion (DCM Form C-14, August 2021)
- Act 2009-657 Requiring Certification of Fire Alarm Contractors (ABC Memorandum January 19, 2021)
- State Of Alabama Department of Insurance – Application For State Fire Marshal's Certified Fire Alarm Contractor Permit
- Certificate of Asbestos Free Building Materials (McKee Form)

## **TECHNICAL SPECIFICATIONS**

### **DIVISION 01      GENERAL REQUIREMENTS**

01010	Scope of Work
01011	Contingency Allowances
01250	Contract Modification Procedures
01290	Payment Procedures
01320	Construction Progress Documentation
01322	Photographic Documentation
01330	Submittal Requirements
01410	Schedule of Special Inspections (For Blackburn Daniels O'Barr Projects)

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01600	Product Requirements
01700	Execution Requirements
01770	Closeout Procedures
01781	Project Record Documents
01782	Operation and Maintenance Data
01820	Demonstration and Training

## **DIVISION 02     SITE WORK**

02070	Selective Demolition
02100	Site Preparation
02200	Earthwork (Geo Report Included)
02282	Termite Control
02513	Asphaltic Concrete Paving
02514	Portland Cement and Concrete Paving
02660	Water Distribution System
02720	Storm Sewers
02730	Sanitary Sewers
02789	Synthetic Turf and Drainage Field
02791	Heat Reducing Top Dressing
02810	Sodding and Topsoil
02811	Seeding and Topsoil
02825	Steel Ornamental Fence Systems and Gates
02830	Temporary Chain Link Fencing & Gates
02831	Vinyl Coated Chain Link Fencing & Gates
02846	Site Graphics

## **DIVISION 03     CONCRETE**

03310	Cast-In-Place Concrete
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## **DIVISION 04     MASONRY**

04200	Unit Masonry
04412	Granite Countertops
04720	Architectural Cast Stone

## **DIVISION 05     METAL**

05500	Miscellaneous Steel and Metal Fabrications
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## **DIVISION 06     CARPENTRY**

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07200	Insulation
07220	Fire/Smoke Stop Insulation
07310	Architectural Shingles
07411	Metal Wall Panels
07421	Metal Wall Panels
07500	Membrane Roof
07510	Membrane Roof Insulation
07600	Flashing and Sheet Metal
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**DIVISION 08     DOORS, WINDOWS AND GLASS**

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08211	Wood Doors
08220	Fiberglass Reinforced Plastic (FRP) Doors & Frames
08305	Ceiling Access Doors
08330	Coiling Doors
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08700	Finish Hardware
08800	Glazing

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09301	Porcelain Tile
09500	Linear Metal Ceiling Soffit System
09510	Acoustical Ceilings
09550	Wood Flooring (Stage Flooring)
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09672	Resinous Flooring
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**DIVISION 10 SPECIALTIES**

10160	Toilet Partitions
10200	Louvers
10350	Flagpole
10410	Identifying Devices
10440	Fire Extinguishers, Cabinets and Accessories
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**DIVISION 11 EQUIPMENT**

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11400	Food Service Equipment
11450	Commercial Laundry Equipment
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11500	Baseball and Softball Accessories

**DIVISION 12 FURNISHINGS**

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12500	Window Treatments
12601	Scoreboards

**DIVISION 13 SPECIAL CONSTRUCTION**

13416	Bleachers & Press Box
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**DIVISION 14 CONVEYING SYSTEM**

Not Applicable

**DIVISION 15 MECHANICAL**

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16720	Fire Detection and Alarm Systems
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**END OF TABLE OF CONTENTS**

## **SECTION 02791 – HEAT REDUCING TOP DRESSING**

### **PART 1 – GENERAL**

#### **1.0 GENERAL REQUIREMENTS**

##### ***1.1 Related Documents***

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this section.

##### ***1.2 Scope of Work***

- A. Furnish all labor, tools, and equipment necessary to install, in place, all material as indicated on the plans and as specified herein. The installation of all new materials shall be performed in strict accordance with the Manufacturer's written installation instructions, and in accordance with all approved shop drawings.

##### ***1.3 Shop Drawings***

- A. Shop drawings shall be prepared and contain all pertinent information regarding installation. These drawings shall be submitted to the Owner or Owner's representative for approval prior to the manufacturing and shipment of materials.
- B. Submit drawings for:
  - 1. Installation details, edge detail, goal post detail, other inserts, and covers, etc., as required by contract.
  - 2. Striping plan showing any field lines, markings and boundaries, and field logos per project drawings.

##### ***1.4 Quality Assurance***

- A. Manufacturer is defined as:
  - 1. A company specializing in the design and manufacturing of systems with not less than five (5) years documented experience.
  - 2. Manufacturer shall have an experienced technical services and sales professional who is available during the course of the work to meet personally with the Owner, Contractor, and Landscape Architect.
  - 3. Manufacturer will manufacturing locations and be a tax paying entity inside Whitfield County
- B. Manufacturer's Experience:
  - 1. The Manufacturer shall have the experience of at least one hundred (100) acceptable installations of full-size fields (minimum 65,000 sq. ft.) in the United States within

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HEAT REDUCING TOP DRESSING

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## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

the past five (5) years of tufted, polyethylene grass-like fabrics that are filled with a mixture of SBR rubber and sand. **Submit a list of all applicable installations with the bid.**

2. The Manufacturer shall have the experience of twenty-five (25) acceptable installations (minimum 65,000 sq. ft.) of fields that are at least eight years old. **Submit a list of all applicable installations with the bid.**
3. The Manufacturer shall have the experience of twenty five (25) acceptable installations of the specific fiber system specified. **Submit a list of all applicable installations with the bid.**
4. The Manufacturer shall have the experience (if applicable to this project specification) of one hundred (100) installations with sewn main fabric seams.
5. The Manufacturer must be a certified member of the Synthetic Turf Council in good standing.
6. The Manufacturer must have and operate its own extensive research and development laboratory. This laboratory must include testing devices for the following tests: Yarn Tensile Strength, Yarn Elongation, Tuft Bind, Grab Tear Strength, Seam Strength, g-max, Force Reduction, Vertical Deformation, Ball Roll, Ball Rebound, Rotational Resistance, Linear Traction, Relative Abrasive Index, UV Resistance, Flammability, and Simulated Aging.
7. The Manufacturer must have manufactured and installed fields at every level of competition, including high school, college and professional.
8. The Manufacturer must have at least (1) one current NCAA Division 1 and (1) one current NFL game stadium field installation. **Submit a list of all applicable installations with the bid.**
9. The Manufacturer must not have had more than (5) five fields replaced, under warranty, during the past 5 years.
10. The Manufacturer must be vertically integrated including in-house tufting, polyethylene monofilament extrusion, in-house coating, polyurethane compounding, manufacture own primary backing, in-house yarn texturizing, ability and flexibility to tuft various gauge widths and have the ability to recycle used/old fields.
11. The Manufacturer must have a fully integrated quality system, directly based on and compliant with ISO 9000, ISO 14001 and OHSAS 18001 international standards.

C. Contractor is defined as:

1. A company that has built and installed a minimum of ten (10) infilled fields. contractors and on-site superintendent shall provide a resume to provide proof of experience
  - a. At any time after award of the contract and before the completion of the project, should any member of the approved crew or subcontractor discontinue their relationship with the crew or subcontractor the Owner shall be notified. Failure to provide personnel meeting the minimum qualifications shall be considered default of the contract requirements

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## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

- D. Warranty: The Contractor shall submit its Manufacturer's Warranty, which guarantees the usability and playability of the system for its intended uses for an eight (8) year period commencing with the date of Substantial Completion.
1. The warranty submitted must have the following characteristics:
    - a) Must provide full-field coverage for eight (8) years from date of Substantial Completion,
    - b) Must warrant materials and workmanship,
    - c) Must warrant that the materials installed meet or the product specifications within manufacturing tolerances,
    - d) Must have a provision to either repair or replace such portion of the installed materials that are no longer serviceable to maintain a serviceable and playable surface,
    - e) Must be a Manufacturer's warranty from a single source covering workmanship and all self-manufactured or procured materials,
    - f) Must not be limited to the amount of annual usage,
    - g) **Must provide, at the time of bid, a copy of its pre-paid 3<sup>rd</sup> party insurance policy.** This policy must have an annual aggregate amount of no less than \$60 million, and a per incident limit of no less than \$7 million per claim. The third party insurer must have an AM Best rating of A++ or better.

#### *1.5 Existing Conditions*

- A. If the surface on which the new system is to be installed is an existing asphaltic/concrete base, the Contractor will be responsible for any damage due to negligence to the concrete during removal/installation of the system provided there are no failures below the surface which contribute to the damage. The football goal posts, if any, are to be removed and reinstalled by the Owner or Prime Contractor to facilitate the installation of the new system.
- B. If the surface on which the system is to be installed is a new asphaltic/concrete base or a new base of compacted, porous aggregate, the Contractor will be responsible for any damage to the base during removal/installation of the system after the deficiencies (if any) have been corrected by the base contractor with respect to planarity, compaction, and drainage/permeability. New in ground equipment, football goal post (if any) and /or infield mix backfill within the contiguous system limits or immediately adjacent thereto are to be installed prior to the installation of the system. Damage to the system during the installation of such materials is not the responsibility of the Contractor.

#### *1.6 Schedule*

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## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

- A. The Contractor shall complete all work on the system in accordance with the published project schedule, or as mutually agreed upon.

#### *1.7 Surface Area*

- A. The Contractor is to verify all measurements.

#### *1.8 Utilities*

- A. Owner or Prime Contractor will supply necessary water, adequate lighting, and electricity for installation. Owner or Prime Contractor shall permit use of toilet and wash up facilities.

### 2.0 PRODUCTS

#### *2.1 Approved Products*

- A. All products must meet the minimum specifications of this section and the minimum properties as required by tables I & M regardless of prior approval:
  - 1. Shaw Sports Turf – Legion
  - 2. FieldTurf – Vertex Prime
  - 3. Hellas – Fusion XP<sup>2</sup>

#### *2.2 Materials*

- A. System shall be tufted, polyethylene, grass-like fabric coated with a secondary backing of high-grade polyurethane. Refer to grid below. The two fibers on product (1) specified in this grid shall be tufted through the same needle in a grass-like fabric to a finished pile-height also specified in the grid. **Samples must be provided with the bid.**
- B. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified should be able to withstand exposure in all climates, be resistant to insect infestation, rot, fungus, mildew, ultraviolet light and heat degradation, and shall have the basic characteristics of flow-through drainage, allowing free movement of surface runoff through the synthetic turf fabric where such water may flow to the existing base and into the field drainage system.
- C. The finished playing surface shall appear as mowed grass and shall resist abrasion and cutting from normal use.

## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

- D. The polyethylene pile yarn shall be a proven athletic caliber yarn designed specifically for outdoor use and stabilized to resist the effect of ultraviolet degradation, heat, foot traffic, water, and airborne pollutants.
- E. The system shall be tufted at the pile height and gauge listed in specification grid, refer to table in section 2.2 I.
- F. The Primary Backing must be a multi-layer backing, contain UV stabilizers and must pass 3000 hours of QUV A testing, refer to table in section 2.2 I.
- G. The Secondary Backing of high-grade polyurethane shall be applied to the Primary Backing. Secondary Backing adds resistance to water degradation and strengthens grip on fibers, refer to table in 2.2 I.
- H. The entire backing shall be coated with holes perforated throughout the backing at the System's Manufacturer's recommended interval to allow for drainage. Partially coated backings or latex coating materials shall not be acceptable.

I. TURF CHARACTERISTICS	TEST RESULTS	METHOD
Linear Density (Denier) Mono/Slit*	7,200/5,000	ASTM D 1577
Yarn Thickness Mono/Slit	300/100 microns	ASTM D 3218
Pile Weight****	46 oz./yd2	ASTM D 5848
Finished Pile Height****	2.25	ASTM D 5823
Product Weight (total)***	74 oz./yd2	ASTM D 5848
Primary Backing Weight****	8 oz./yd2	ASTM D 5848
Secondary Coating Weight+	20 oz./yd2	ASTM D 5848
Fabric Width	15' (4.57m)	ASTM D 5793
Tuft Gauge	1/2"	ASTM D 5793
Grab Tear Strength Avg.	> 200 lb.-F	ASTM D 5034
Tuft Bind (Avg.)	> 10 lb.-F	ASTM D 1335
Infiltrimeter (Drainage)	> 25	ASTM D3885

- J. Infill ratios and depths must conform to Manufacturer's recommendations and must meet the material characteristics and minimum weights of the table in section 2.2 M.
- K. The total infill depth shall not be less than 0.75 inches less than the finished pile height specified, refer to table in section 2.2 I.
- L. The infill system shall consist of a top layer of 100% natural infill consisting primarily of coconut fibers. Approved natural infill products are:
  - 1. Shaw Sports Turf - GeoFill
  - 2. Field Turf - PureGeo Coconut

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## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

#### 3. Hellas - GeoPlus

M. INFILL PROPERTY	STANDARD	SPECIFICATION
Rubber Granule Comp	N/A	All black SBR
Rubber Granule Shape	EN 14955	Spherical, Moderate, Angular
Rubber Sieve Analysis	ASTM D 5644	10 / 20MESH (2.0mm – 0.85mm)
Sand Granule Shape	ASTM D442	Semi-rounded to rounded angularity
Sand Sieve Analysis	ASTM E11	20 / 40 MESH (0.85mm - 0.425 mm)
Rubber Weight	N/A	3.0 pounds per square foot minimum
Sand Weight	N/A	3.0 pounds per square foot minimum
Natural Infill Type	N/A	Minimum 85% Coconut Fibers
Natural Infill Weight	N/A	0.5 pounds per square foot minimum

- N. Perimeter edge details, underground storm sewer piping and connections, and goal post foundations required for the system shall be as detailed and recommended by the Design Professional, and as approved by the Owner. The cost for these embedded items shall be included in the Sitework Contractor's price along with the compacted, porous base.

### 3.0 EXECUTION

#### 3.1 General

- A. The installation shall be performed in full compliance with approved shop drawings.
- B. Only factory-trained technicians skilled in the installation of athletic caliber systems shall undertake the placement of the system.
- C. Subject to the requirements in Section 1.2(B), the surface to receive the system shall be verified by the Contractor as ready for the installation of the system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

#### 3.2 Removal (if necessary)

- A. Contractor shall remove the existing system and under-pad from the field (as required by contract).
- B. After removal of the stadium surface, the existing system and pad materials shall be rolled up and placed at a location designated by the Owner.

#### 3.3 Installation

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HEAT REDUCING TOP DRESSING

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## SECTION 02791 – HEAT REDUCING TOP DRESSING

### PART 1 – GENERAL

- A. The completed base and adjacent curbs/perimeter nailer shall be inspected by the Engineer or Sitework Contractor by means of a laser and plotted on a 10-foot grid. Based upon the Contractor's inspection of the topographical survey, the Sitework Contractor shall fine grade the base suitably, including properly rolling and compacting the base to achieve a surface planarity within 1/4" in 10-feet (+0, -1/4"). OWNER, ENGINEER, OR PRIME CONTRACTOR SHALL NOT APPROVE THE BASE FOR TOLERANCE TO GRADE WITHOUT OBTAINING THE TOPOGRAPHICAL SURVEY.
- B. Subgrade and base shall be uniformly compacted to a minimum of 95% of maximum dry density. Care must be exercised to minimize segregation. Engineer/Sitework Contractor shall make written records available to the System Contractor's inspector for both drainage/permeability and compaction/planarity as obtained from a minimum 10' x 10' grid.
- C. The System Project Superintendent shall thoroughly inspect all system materials delivered to the site for both mixing and quantity to assure that the entire installation shall have sufficient material to maintain proper mixing ratios.
- D. System shall be loose-laid across the field, stretched, and attached to the perimeter edge detail. System shall be of sufficient length to permit full cross-field installation. No head or cross seams will be allowed except as needed for inlaid fabric striping or to accommodate programmed cut-outs.
- E. All seams shall be flat, tight, and permanent with no separation or fraying. Selvedge edges of all panels must be cut and discarded prior to being sewn together. A butt-stitch method of seaming must be implemented and a double-lock stitch with cord recommended by the System Manufacturer shall be utilized. Bagger stitching is prohibited. Seaming tape is to be constructed of high tenacity, coated non-woven fabric. Inlaid markings shall be adhered to seaming tape with a high strength polyurethane adhesive applied per the System Manufacturer's standard procedures for outdoor applications. All main fabric seams shall be transverse to the field direction (i.e. run perpendicularly across the field).
- F. Infill materials shall be properly applied in numerous lifts using special broadcasting equipment. The synthetic turf shall be raked and brushed properly as the mixture is applied. The infill materials can only be applied when the system fabric is dry.

#### ***3.4 Field Markings and Decorations***

- A. Field markings and decorations shall be installed in accordance with approved project shop drawings.

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#### *3.5 Clean Up*

- A. System Contractor shall provide the labor, supplies, and equipment, as necessary, for final cleaning of the surfaces.
- B. The System Contractor shall keep the area clean and clear of debris throughout the project.
- C. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by Owner.

## SECTION 07411 - METAL WALL PANELS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

- A. Extent of each type of preformed wall panels/siding is indicated on the drawings and by provisions of this section. Preformed wall panels/siding is hereby defined to include panels which are structurally capable of spanning between supports spaced as indicated.
- B. Types of materials required include the following:
  - 1. Exterior Wall Panel
  - 2. Workmanship
  - 3. Inspection of Surfaces
  - 4. Protection
  - 5. Delivery, Samples and Shop Drawings

#### 1.3 REFERENCES

- A. American Architectural Manufacturer's Association (AAMA): [www.aamanet.org](http://www.aamanet.org):
  - 1. AAMA 621 - Voluntary Specifications for High Performance Organic Coatings on Coil Coated Architectural Hot Dipped Galvanized (HDG) & Zinc-Aluminum Coated Steel Substrates.
  - 2. AAMA 809.2 Voluntary Specification Non-Drying Sealants.
- B. American Society of Civil Engineers (ASCE): [www.asce.org/codes-standards](http://www.asce.org/codes-standards):
  - 1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.
- C. ASTM International (ASTM): [www.astm.org](http://www.astm.org):
  - 1. ASTM A755 - Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products.
  - 2. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
  - 3. ASTM C920 - Specification for Elastomeric Joint Sealants.
  - 4. ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
  - 5. ASTM D4214 - Test Methods for Evaluating Degree of Chalking of Exterior Paint Films.
  - 6. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
  - 7. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
  - 8. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.

#### 1.4 QUALITY ASSURANCE

- A. Performance Test Standards: Provide preformed panel systems which have been pretested and certified by manufacturer to provide specified resistance to air and water infiltration and structural deflection and failure when installed as indicated and when tested in accordance with AAMA 501, "Methods of Test for Metal Curtain Walls".

- B. Manufacturer Qualifications: Approved manufacturer listed in this Section with minimum of five years of experience in manufacture of similar products in successful use in similar applications.
- C. Field Measurements: Where possible, prior to fabrication of prefabricated panels, take field measurements of structure or substrates to receive panel system. Allow for trimming panel units where final dimensions cannot be established prior to fabrication.

## 1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications, standard details, certified product test results, installation instructions and general recommendations, as applicable to materials and finishes for each component and for total system of preformed panels.
- B. Samples: Submit 2 samples 12" square, of each exposed finish material.
- C. Shop Drawings: Submit small-scale layouts of panels, and large-scale details of edge conditions, joints, corners, custom profiles, supports, anchorages, trim, flashings, closures, and special details. Distinguish between factory and field assembly work.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Manufacturer: The following manufacturers' products have been used to establish minimum standard for materials, workmanship and function:
  - 1. American Buildings Company/A Nucor Company; (Basis of Design and Quality); [www.americanbuildings.com](http://www.americanbuildings.com); 1150 State Docks Road, Eufaula, Alabama 36027; Phone: 334.687.2032.
  - 2. IMETCO; [www.imetco.com](http://www.imetco.com); 4648 South Old Peachtree Road Norcross, GA 30071; Phone: 800.646.3826
  - 3. MBCI Manufacturing; [www.mbc.com](http://www.mbc.com); 2280 Monier Avenue, Lithia Springs, Georgia, 30122; Phone: 844.2506 or 770.729.4772.
  - 4. Morin / A Kingspan Group Company; [www.kingspan.com/us/en-us/product-groups/metal-roof-wall-systems](http://www.kingspan.com/us/en-us/product-groups/metal-roof-wall-systems); 1975 Eidson Drive, Florida, 32724; Phone: 860.584.0900 or 800.640.9501
- B. Equal products of other manufacturers may be used in the work, provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.

### 2.2 MATERIALS

#### A. EXTERIOR PANELS:

- 1. Long Span III (L3P) Panel by American Buildings Company/A Nucor Company.
  - a. The panel shall have major ribs 1 ¼" high. Spaces 12" on center for an even shadowed appearance. The panels are to be reinforced between the ribs for added strength. Each panel shall provide 36" net coverage in width.
  - b. Panels shall conform to one of the following:
    - I. Panel material as specified shall be 24 gage zinc-coated(galvanized) steel, coating designation G90, conforming to the requirements of ASTM A 653, Grade 80. Minimum yield strength shall be 80,000 psi.
  - c. Fasteners for Long Span III (L3P) Wall Panels:
    - I. Shall be manufacturer's fastener with hex washer head, cadmium or zinc plated.
    - II. Shall be assembled with an EPDM washer.
    - III. The fasteners shall be color coordinated with a premium coating system which protects against corrosion and weathering.

#### d. Finish/Color:

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- I. Finish shall be Smartkote Kynar 500® finish.
- II. Provide all trims, fasteners, sealants to match selected colors.
- III. Color of the panels shall be selected by the Architect after bid date from manufactures Standard Color pallet.

## 2.3 METAL FINISHES

- A. General: Apply coating either before or after forming and fabricating panels, as required by coating process and as required for maximum coating performance capability.
- B. Protect coating promptly after application and cure, by application of strippable film or removable adhesive cover, and retain until installation has been completed.
- C. Durability: Provide coating which has been field tested under normal range of weathering conditions for minimum of 20 years without significant peel, blister, flake, chip, crack or check in finish, and without chalking in excess of 8 (ASTM D 659), and without fading in excess of 5 NBS units.
- D. Color Finish on All Trim and All Wall Panels: Panels shall have a factory color finish on the exposed side. The exposed finish shall consist of a 70% KYNAR 500 resin base coating applied to a cleaned, pretreated and primed surface. The dry film thickness of the exterior coating shall not be less than 0.8 mil. exclusive of the primer. The interior color finish shall consist of a backer coat with a dry film thickness of 0.5 mil. The color finish shall meet or exceed the performance requirements specified below. Color selected from manufactures standard colors.
- E. Paint Color Test:
  1. Test: Film Thickness; Test Method: ASTM D-1005; Performance: 0.2 mil primer 0.8-0.9 mil topcoat
  2. Test: 60° @ under 10 low gloss; Test Method: ASTM D-523; Performance: 25-35
  3. Test: IR Reflectivity; Test Method: ASTM D-4803-97; Performance: Must meet 25% Minimum (exceeds)
  4. Test: Pencil Hardness; Test Method: ASTM D-3363; Performance: HB-H
  5. Test: Flexibility, T-Bend; Test Method: ASTM D-4145; Performance: 2-T Galvalume Steel
  6. Test: Adhesion; Test Method: ASTM D-3359; Performance: No adhesion Loss
  7. Test: Reverse Impact; Test Method: ASTM D-2794; Performance: No cracking or loss of adhesion
  8. Test: Abrasion, Falling Sand; Test Method: ASTM D-968; Performance: 65-85 1/mil
  9. Test: Mortar Resistance; Test Method: ASTM C-267; Performance: No effect
  10. Test: Detergent Resistance; Test Method: ASTM D-2248 3% 72 hrs. @ 100°F; Performance: No effect
  11. Test: Acid Pollutants; Test Method: ASTM D-1308 10% Muriatic Acid (15 min) 20% Muriatic Acid (15 min); Performance: No effect, AAMA 605.2 <5units color change
  12. Test: Acid Rain Test; Test Method: Kesternich; Performance: 15 cycles minimum, no objectionable color change
  13. Test: Alkali Resistance; Test Method: 20% Sodium Hydroxide (1hr); Performance: No effect
  14. Test: Salt Spray Resistance 5% @ 95° F; Test Method: ASTM B-117; Performance: 1000 hrs Galvalume steel
  15. Test: Humidity Resistance 100% @ 100° F; Test Method: ASTM D-2247; Performance: Passes 1000 hrs Galvalume Steel
  16. Test: South Florida exposure; Test Method: ASTM D-2244; Performance: <5 units color change

- 17. Test: UVB (313 bulbs); Test Method: ASTM G-53; Performance: Passes 3000 hrs
- 18. Test: Chalk Resistance; Test Method: ASTM D-4214; Performance: Rating of 8 min

- F. Internal Panel Framing: Manufacturer's standard.
- G. Fasteners: Manufacturer's standard noncorrosive types, with exterior heads gasketed.
- H. Accessories: Except as indicated as work of another specification section, provide components required for a complete wall panel/siding system, including trim, closures, fascias, gravel stops, mullions, sills, corner units, ridge closures, clips, seam covers, battens, flashings, gutters, louvers, sealants, gaskets, fillers, closure strips and similar items. Match materials/finishes of preformed panels.
- I. Bituminous Coating: Cold-applied asphalt mastic, SSPC paint 12, compounded for 15 mil dry film thickness per coat.

## **2.4 WALL PANEL FABRICATION**

- A. General: Fabricate and finish panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, and as required to fulfill indicated performance requirements which have been demonstrated by factory testing. Comply with indicated profiles and dimensional requirements, and with structural requirements.
- B. Metal Gages: Thicknesses required for structural performances, but not less than manufacturer's recommended minimums for profiles and applications indicated, and not less than 22 gauge.
- C. Required Performances: Fabricate panels and other components of wall system for the following installed performances.
- D. Water Penetration: No significant, uncontrolled leakage at 4 lbs. per sq. ft. pressure with spray test.
- E. Air Infiltration: 0.02 cfm per sq. ft. for gross roof/wall areas, with 4 lbs. per sq. ft. differential pressure.
- F. Sound Transmission: STC rating of 28.
- G. Sound Absorption, Interior Surfaces: Coefficient of 0.75.
- H. Apply bituminous coating or other permanent separation materials on concealed panel surfaces where panels would otherwise be in direct contact with substrate materials which are noncompatible or could result in corrosion or deterioration of either material or finishes.
- I. Fabricate panel joints with captive gaskets or separator strips, which provide a tight seal and prevent metal-to-metal contact in a manner which will minimize noise from movements within panel system.
- J. Condensation: Fabricate panels for control of condensation, including vapor inclusion of seals and provisions for breathing, venting, weeping and draining.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. General: Comply with panel fabricator's and material manufacturer's instructions and recommendations for installation, as applicable to project conditions and supporting substrates. Anchor panels and other components of the work securely in place, with provisions for thermal/structural movement.
- B. Install panels with concealed fasteners.
- C. Installation Tolerances: Shim and align panel units within installed tolerance of 1/4" in 20'-0" on level/plumb/slope and location/line as indicated, and within 1/8" offset of adjoining faces and of alignment of matching profiles.

- D. Joint Sealers: Install gaskets, joint fillers and sealants where indicated and where required for weatherproof performance of panel systems. Provide types of gaskets and sealants/fillers indicated or, if not otherwise indicated, types recommended by panel manufacturer.
- E. Refer to other sections of these specifications for product and installation requirements applicable to indicated joint sealers.
- F. Joint Sealers: Refer to other sections of these specifications for post-installation requirements on joint sealers; not work of this section.

### **3.2 CLEANING AND PROTECTION**

- A. Damaged Units: Replace panels and other components of the work which have been damaged or have deteriorated beyond successful repair by means of finish touch-up or similar minor repair procedures.
- B. Cleaning: Remove temporary protective coverings and strippable films (if any) as each panel is installed. Upon completion of panel installation, clean finished surfaces as recommended by panel manufacturer, and maintain in a clean condition during construction.

### **END OF SECTION**

## **SECTION 08220 – FIBERGLASS REINFORCED PLASTIC (FRP) DOORS AND FRAMES**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 Specification sections apply to work of this section.

#### **1.2 DESCRIPTION OF WORK**

- A. The extent of each type of door is shown on the drawings and schedules. The following types of doors are required:
  - 1. Fiberglass Reinforced Plastic (FRP) Doors.

#### **1.3 QUALITY ASSURANCE**

- A. Manufacturer's Certification: Manufacturer is to have a minimum of 25 years experience in the production of pre-hardwood and pre-assembled door systems, using the type of materials specified for this project.
- B. Installer's Qualifications: For the installation of the entrance systems, use only mechanics who are thoroughly trained and experienced in the skills required and who are completely familiar with the manufacturer's recommended methods of installation plus the requirements of this work.

#### **1.4 WARRANTY**

- A. Warranty all fiberglass doors for a period of 10 years against failure due to corrosion. Additionally, warranty all fiberglass doors on materials and workmanship for a period of 10 years, including warp, separation or delaminating and expansion of the core.

#### **1.5 TEST REPORTS AND PERFORMANCE REQUIREMENTS FOR ALUMINUM HYBRID FRP NARROW STILE DOORS – HURRICANE RATED**

- A. Entrance systems must comply with requirements for system performance characteristics as determined by the testing methods that follow:
  - 1. Two copies of current test reports covering the test procedures as listed are to be included with the submittals.
- B. Complete System Requirements Test: Complete system units that include door, frame and hardware are to meet the following criteria:
  - 1. FBC Protocol for TAS 201; TAS 202; TAS 203 – Pass, and the following additional minimum criteria in conjunction with the qualifications as outlined by previously referenced standards:
    - a. Thermal Transmittance Tests:
      - 1) U-factors expressed in Btu/ hr-ft (2)-F - AAMA 1503-98 - 0.58
      - 2) R-value expressed in hr-ft (2)-F/Btu - ASTM 1503-98 - 1.73
    - b. Structural Performance Tests:
      - 1) Air Infiltration –  
ASTM E283 @ 1.56 psf (25 mph) - 0.41 cfm/ft (2)  
ASTM E283 @ 6.24 psf (50 mph) – 1.06 cfm/ft (2)
      - 2) Water Penetration –  
ASTM E331 - 15 Min Cycle - NO ENTRY
      - 3) Uniform Static Load for single door- ASTM E330 - (+) - 195.0
    - c. Structural Integrity Tests:
      - 1) Exit Bar Pull Off Test - 1300 lbs. minimum load resistance before exit bar disengages from door.

- 2) Closer Pull Off - 1638 lbs. minimum load resistance before closer disengages from door.
  - d. Windborne Debris Resistance Tests:
    - 1) Large Missile Impact Test - SFBC PA 201 - 94 – PASSED
    - 2) Cyclic Wind Pressure Test - SFBC PA 203 - 94 - 65PSF
    - 3) Forced Entry Test - SFBC 3603.2 - 300 lbs. – PASSED
  - e. Indoor Air Quality Test: ASTM D 6670-01: GREENGUARD Environmental Institute Certified including GREENGUARD for Children and Schools Certification.
- C. Face Sheet Requirements Test: FRP material and FRP face sheets with core material are to meet the following criteria:
1. Center Door Section (face sheet/core/face sheet) Gardner Impact Test – Nominal Value, ASTM D 3029 120 in-lb.
  2. FRP Material (MR85)
    - a. Flexural Strength Test – ASTM D790 - 22,600 psi (inward) 24,400 psi(outward)
    - b. Izod Impact Strength Test – ASTM D256 - 15.36 ft-lb./in thickness
    - c. Barcol Hardness – ASTM D2583 – 50

## **1.6 SUBMITTALS**

- A. Product Technical Data Including:
1. Acknowledgment that products submitted meet requirements of standards referenced.
  2. Manufacturer shall provide certificate of compliance with current local and federal regulations as it applies to the manufacturing process.
  3. Manufacturer's installation instructions.
  4. Schedule of doors indicating the specific reference numbers used on the owner's project documents, noting door type, frame type, size, handing and applicable hardware.
  5. Details of core and edge construction, including factory construction specifications.
  6. Certification of manufacturer's qualifications.
- B. Submittal Drawings for approval shall be submitted prior to manufacture and shall include the following Information and formatting:
1. Summary door schedule indicating the specific reference numbers as used on owner's drawings, with columns noting door type, frame type, size, handing, accessories and hardware.
  2. A drawing depicting front and rear door elevations showing hardware with bill of material for each door.
  3. Drawing showing dimensional location of each hardware item and size of each door.
  4. Individual part drawing and specifications for each hardware item and FRP part or product.
  5. Construction and mounting detail for each frame type.

## **1.7 DELIVERY, STORAGE AND HANDLING**

- A. Each door shall be delivered individually crated for protection from damage in cardboard containers, clearly marked with project information, door location, specific reference number as shown on drawings, and shipping information. Each crate shall contain all fasteners necessary for installation as well as complete installation instructions.
1. Doors shall be stored in the original container on edge, out of inclement weather for protection against the elements.

2. Handle doors pursuant to the manufacturer's recommendations as posted on outside of crate.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURER**

- A. The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:
  1. Special-Lite - SL-17 HR Series, FRP/Aluminum Hybrid
  2. Special-Lite – SL 260 Aluminum Frames
- B. Equal products of other manufacturers may be used in the work provided such products have been approved by the Architect, not less than Ten (10) days prior to scheduled bid opening.
- C. NOTE: Manufacturer must meet all technical requirements listed herein.
- D. Door Systems Classifications: Door systems for this project are based on criteria as cited for Systems meeting FBC Protocols TAS 201, 202, 203. Doors were tested as a unit and as such, to meet specified criteria all specifications regarding frame and door size must be met and testing documentation outlining the unit specifics as tested must be provided.

### **2.2 MATERIALS**

- A. Aluminum Members:
  1. Doors, frames, miscellaneous components and entrance systems accessories are to be from the same manufacturer. Splitting the source for these items will not be permitted.
  2. Provide alloy and temper as recommended for resistance to corrosion and color control. Aluminum member references are ASTM B 221 for extrusions and ASTM B 209 for sheets.

### **2.3 ALUMINUM FRAMES**

- A. Standard Closed Back Frames shall be of extruded aluminum 6063-T5 alloy and a wall thickness of .125".
  1. Vertical Members: All vertical frame jambs and mullions will be full height of opening.
  2. Sections: Tube sections will be 2" x 4 1/2" with joints connected by use of reinforcing clips and machine screws.
  3. Finish to be determined by architect.
  4. Closed Back Frames are: CDS Model 2400 or equal

### **2.4 FIBERGLASS NARROW STILE HURRICANE RATED ALUMINUM HYBRID (FRP) DOORS**

- A. Structural Main Frame: Doors have an aluminum main frame constructed from extruded aluminum 6063 - T5 alloy. Doors are 1 3/4" thick. Main-frame tube is to be a single extruded unit measuring 1 1/2" x 2 1/2" (O.D.) on Sides; Bottom and top rail with a 6" (O.D.) tube.
- B. Main Frame Stile Wall Thickness:
  1. Side Stiles Minimum 1/8" thick hinge edge wall.
  2. Side Stiles Minimum 1/8" thick face walls.
  3. Bottom Rail Minimum 1/8" thick face walls.
  4. Top Rail Minimum 1/8" thick all walls.
- C. Main Frame Joinery: Assembly for the meeting joints of the Rails and Stiles on the main-frame are to include the following:
  1. Tie rods inserted into top and bottom rails.
  2. Mortise & Tenon with four-point connect fasteners (per joint).

3. **\*\*WELDED JOINTS WILL NOT BE ACCEPTED\*\***

- D. Face Sheets: Face sheets will be fiberglass reinforced polyester, .120" thick, and have a pebble-like embossed finish. Face sheet color will be selected from manufacturer's standard color chart.
- E. FRP face sheets are MR85 HIGH IMPACT FRP MATERIAL that has been tested by ASTM S5420 Gardner Impact Test with "Mean Failure Energy" rating no lower than 411.84 in-lb. (or equal).
- F. Core Material: Core material will be 5-lb. density polyurethane with a flame spread rating of no more than 25.
  - 1. URETHANE CORE DOORS will require a letter from the manufacturer offering a special guarantee that the FRP face sheets will not delaminate (bubble) for a period of 25 years, AND that the manufacturer will cover ALL replacement costs if delamination does occur.
- G. Edge Trim: Stile Edge Trim is an INTEGRAL part of the main frame and interlocks with the panel. Top and bottom edge trim is removable.
  - 1. Snap on edge trim will not be accepted.
- H. Weather Stripping: Weather stripping package as provided by door manufacturer as tested and passed with unit.
- I. Hardware Reinforcing: Closer reinforcing to be 1/8" minimum aluminum plate or channel. Surface Applied Exit Device reinforcing to be 1/8" aluminum channel.
- J. Narrow Stile Hurricane (FRP) Doors are by one of the following:
  - 1. Basis of Design: Commercial Door Systems F200-HR
  - 2. Approved Manufacturer: SPECIAL LITE, Hurricane Rated Model SL-17 (must provide proof of test reports to confirm hardware configuration for each set of specified hardware passes TAS protocol 201, 202, 203)
- K. Vision Lites:
  - 1. Vision lite trim moldings will be aluminum extrusion - 6063-T5 alloy and removable from the inside only.
  - 2. Door Vision Lites will be Factory glazed with hurricane tested glass size
  - 3. Hurricane Rated Vision Lite not to exceed 22" x 32" inches
  - 4. Door Vision Lite Kits are by THE DOOR MANUFACTURER ONLY.

**2.5 HARDWARE**

- A. Hardware locations to be templated as tested for Hurricane approval.
- B. Refer to specification section 08700 for hardware requirements.

**PART 3 - EXECUTION**

**3.1 VERIFICATION**

- A. Verification of Conditions:
  - 1. Verify openings are correctly prepared to receive doors and frames.
  - 2. Verify openings are correct size and depth in accordance with submittal drawings.
- B. Installer's Examination:
  - 1. Door installer shall examine conditions under which construction activities of this section are to be performed and submit a written report to general contractor if conditions are unacceptable.
  - 2. General Contractor shall submit two copies of the installer's report to the architect within 24 hours of receipt.

3. Installer shall not proceed with installation until all unacceptable conditions have been corrected.

### **3.2 INSTALLATION**

- A. Doors shall be delivered at job site individually crated. Each crate to be clearly marked with the specific opening information for quick and easy identification.
- B. All single doors to be shipped completely assembled in the frame with hardware installed. Double doors to be prehung at the factory to ensure a proper fit and that hardware functions properly, then disassembled for shipping purposes.
- C. Install door opening assemblies in accordance with shop drawings and manufacturer's printed installation instructions, using installation methods and materials specified in installation instructions.
- D. Field alteration of doors or frames to accommodate field conditions is strictly prohibited. Site tolerances: Maintain plumb and level tolerance specified in manufacturer's printed installation instructions.
- E. Fire labeled doors, frames and any associated hardware must be installed by qualified professional installers in strict accordance with manufacturer's instructions and the latest revision of NFPA 80.

### **3.3 ADJUSTING**

- A. Adjust doors in accordance with the door manufacturer's maintenance instructions to swing open and shut without binding and to remain in place at any angle without being moved by gravitational influence.
- B. Adjust door hardware to operate correctly in accordance with hardware manufacturer's maintenance instruction.

### **3.4 CLEANING**

- A. Clean surfaces of door opening assemblies and exposed door hardware in accordance with respective manufacturer's maintenance instructions.

### **3.5 PROTECTION OF INSTALLED PRODUCTS**

- A. Protect door opening assemblies and door hardware from damage by subsequent construction activities until final inspection.

**END OF SECTION**



## **SECTION 08330 - COILING DOORS**

### **PART 1 - GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Insulated Coiling Overhead Doors.

#### **1.2 RELATED SECTIONS**

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 08700 - Door Hardware: Product Requirements for cylinder core and keys.

#### **1.3 REFERENCES**

- A. ANSI/DASMA 108 - American National Standards Institute Standard Method For Testing Sectional Garage Doors And Rolling Doors: Determination Of Structural Performance Under Uniform Static Air Pressure Difference.
- B. NFRC 102 - Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
- C. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Element.
- D. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- E. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- F. ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- G. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- H. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

#### **1.4 DESIGN / PERFORMANCE REQUIREMENTS**

- A. Overhead coiling service doors:
  - 1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components in conformance with ASTM E 330.
  - 2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- B. Overhead coiling insulated doors:
  - 1. Wind Loads: Design door assembly to withstand wind/suction load of 20 psf (958 Pa) without damage to door or assembly components in conformance with ASTM E 330.
  - 2. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
- C. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

#### **1.5 SUBMITTALS**

- A. Submit under provisions of Section 01600.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.

2. Storage and handling requirements and recommendations.
  3. Details of construction and fabrication.
  4. Installation instructions.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

## **1.6 QUALITY ASSURANCE**

- A. Furnish each coiling door as a complete unit produced by one manufacturer, including hardware, accessories, mounting and installation components.
- B. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.
- C. Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.
- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
  2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  3. Refinish mock-up area as required to produce acceptable work.
  4. Anchorages: Furnish all anchoring devices and provide setting drawings, templates, instructions and directions for installation of anchoring devices. Coordinate delivery with other work to avoid delay.

## **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

## **1.8 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

## **1.9 COORDINATION**

- A. Coordinate Work with other operations and installation of adjacent materials to avoid damage to installed materials.

## **1.10 WARRANTY**

- A. Warranty: Manufacturer's limited door and operator system, except the counterbalance spring and finish, to be free from defects in materials and workmanship for 3 years or 20,000 cycles, whichever occurs first.

- B. Warranty: Manufacturer's limited door system warranty for 2 years for all parts and components.
- C. PowderGuard Finish
  - 1. PowderGuard Max: Applied to curtain, guides, bottom bar, headplates: Manufacturer's limited Max Finish warranty for 5 years.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: [www.overheaddoor.com](http://www.overheaddoor.com). E-mail: [info@overheaddoor.com](mailto:info@overheaddoor.com).
- B. Raynor; 1101 East River Road, Dixon, IL 61021-0448; [www.raynor.com](http://www.raynor.com); PH: 815.285.7144.
- C. Cookson; 1901 South Litchfield Road, Goodyear, AZ 85338; [www.cooksondoor.com](http://www.cooksondoor.com); PH: 800.294.4358
- D. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### **2.2 INSULATED COILING OVERHEAD DOORS**

- A. Overhead Coiling Stormtite Insulated Service Doors: Overhead Door Corporation Model 625.
  - 1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
    - a. Flat profile type F-265i for doors up to 40 feet (12.19 m) wide.
    - b. Front slat fabricated of:
      - i. 24 gauge galvanized steel.
    - c. Back slat fabricated of:
      - i. 24 gauge galvanized steel.
    - d. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.
      - i. R-Value: 7.7, U-Value: 0.13.
      - ii. Sound Rating: STC-21.
  - 2. Performance:
    - a. Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with HZ noise generator) as per ASTM E 90.
    - b. Installed System Sound Rating: STC-21 as per ASTM E 90.
    - c. U-factor: 0.91 NFRC test report, maximum U-factor of no higher than 1.00.
    - d. Air Infiltration: Meets ASHRAE 90.1 & IECC 2012/2015 C402.4.3 Air leakage <1.00 cfm/ft<sup>2</sup>.
  - 3. Slats and Hood Finish:
    - a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.
      - i. Powder Coat:
        - 1) PowderGuard Max powder coat, color as selected by Architect.
      - ii. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
  - 4. Weatherseals:
    - a. Vinyl bottom seal, exterior guide and internal hood seals.

- b. Interior guide weatherseal.
  - c. Lintel weatherseal.
  - d. Air Infiltration Package, IECC 2012/2015 listed; product to meet C402.4.3 2012 Air leakage <1.00 cfm/ft2.
    - i. Air infiltration perimeter seal package includes: guide cover, guide cap, dual brush exterior guide seal, 4 inch finned lintel brush seal and vinyl bottom seal.
5. Bottom Bar:
- a. Two galvanized steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
6. Guides: Three structural steel angles.
7. Brackets:
- a. Galvanized steel to support counterbalance, curtain and hood.
8. Finish; Bottom Bar, Guides, Headplate and Brackets:
- a. Finish: PowderGuard Max powder color as selected by the Architect.
9. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
10. Hood: Provide with internal hood baffle weatherseal.
- a. 24 gauge galvanized steel with intermediate supports as required.
11. Manual Operation:
- a. Chain hoist.
  - b. Crank Operation
12. Windload Design:
- a. Standard windload shall be 20 PSF.
13. Locking:
- a. Chain keeper locks for chain hoist operation.
  - b. Interior slide bolt lock for electric operation with interlock switch.
  - c. Cylinder lock for electric operation with interlock switch.
14. Wall Mounting Condition:
- a. As indicated on drawings.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verify opening sizes, tolerances and conditions are acceptable.
- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### **3.2 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. **Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.**
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.
- H. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

### **3.4 ADJUSTING**

- A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

### **3.5 CLEANING**

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

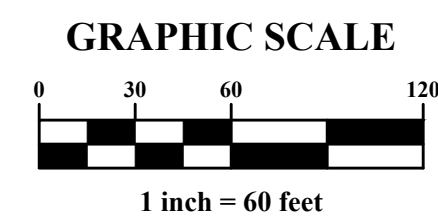
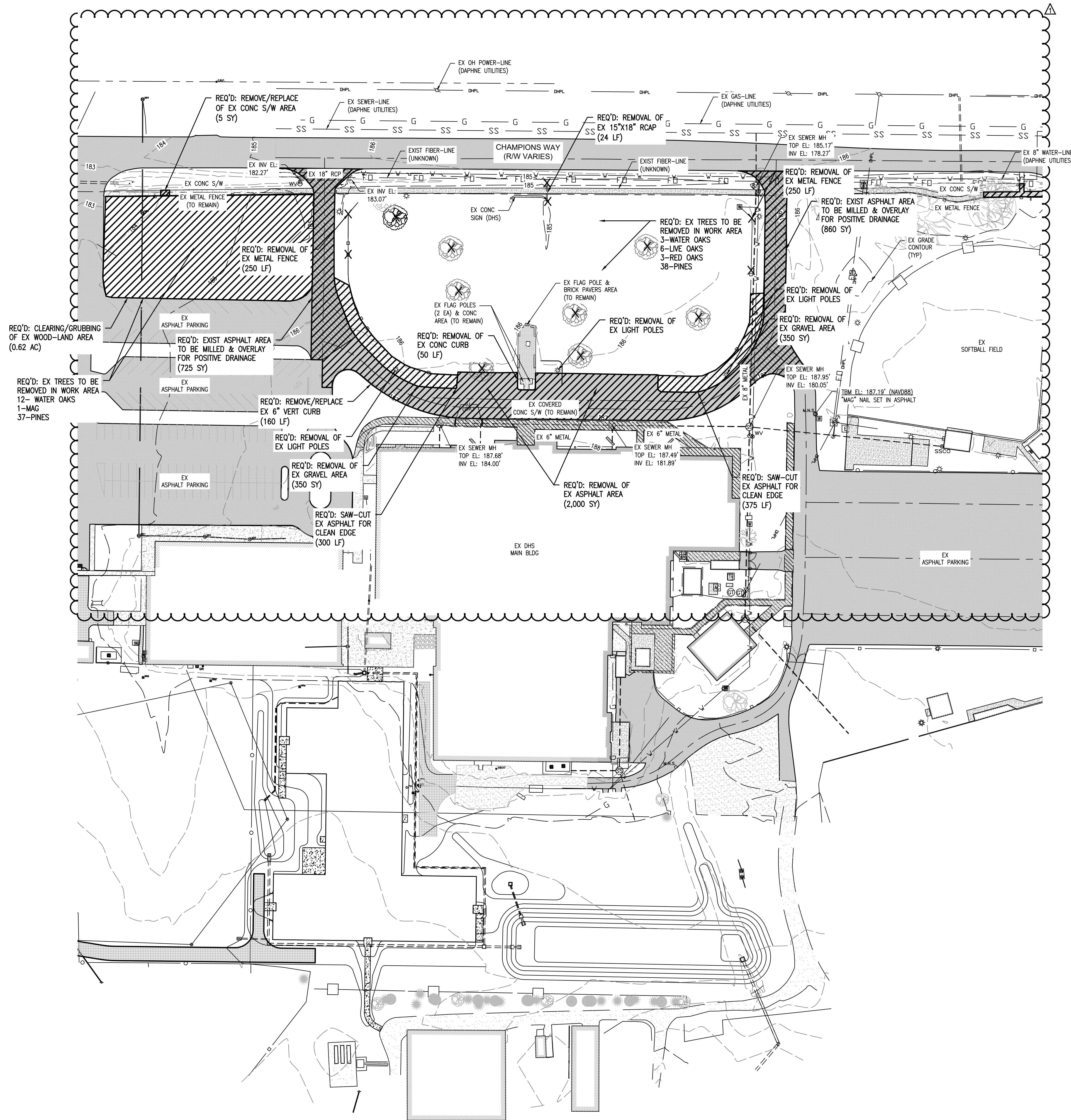
### **3.6 PROTECTION**

- A. Protect installed products until completion of project.

**END OF SECTION**



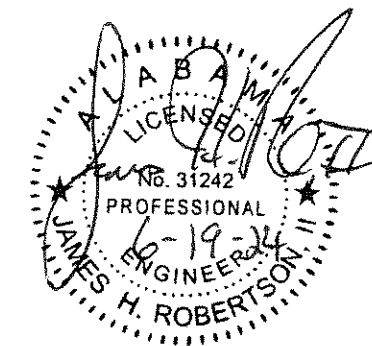
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| W    | EX WATER-LINE         |
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| FH   | EX FIRE HYDRANT       |
| WM   | EX WATER METER        |
| SS   | EX SEWER-LINE         |
| SSV  | EX SEWER VALVE        |
| SMH  | EX SEWER MH           |
| LS   | EX LIFT STATION       |
| GP   | EX GRINDER PUMP       |
| FO   | EX FIBER-LINE         |
| E    | EX UG POWER-LINE      |
| OHPL | EX OH POWER-LINE      |
| E    | EX ELEC BOX           |
| TR   | EX TRANSFORMER        |
| AC   | EX AC UNIT            |
| PP   | EX POWER POLE         |
| LP   | EX LIGHT POLE         |
| GW   | EX GUY WIRE           |
| GR   | EX GAS-LINE           |
| GR   | EX GAS REGULATOR      |
| DP   | EX DRAINAGE PIPE      |
| DMH  | EX DRAINAGE MH        |
| GI   | EX GRATE INLET        |
| HH   | EX HAND-HOLE          |
| CLF  | EX CHAIN-LINKED FENCE |
| MF   | EX METAL FENCE        |
| WL   | EX WOOD-LINE          |
| BLDG | EX BLDG AREA          |
| ASPH | EX ASPHALT AREA       |
| CONC | EX CONC AREA          |
| WET  | EX WETLANDS AREA      |
| X    | DEMO ITEM             |
| DA   | DEMO AREA             |



NEW SOFTBALL COMPLEX  
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FOR THE  
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ARCHITECTS, INC.

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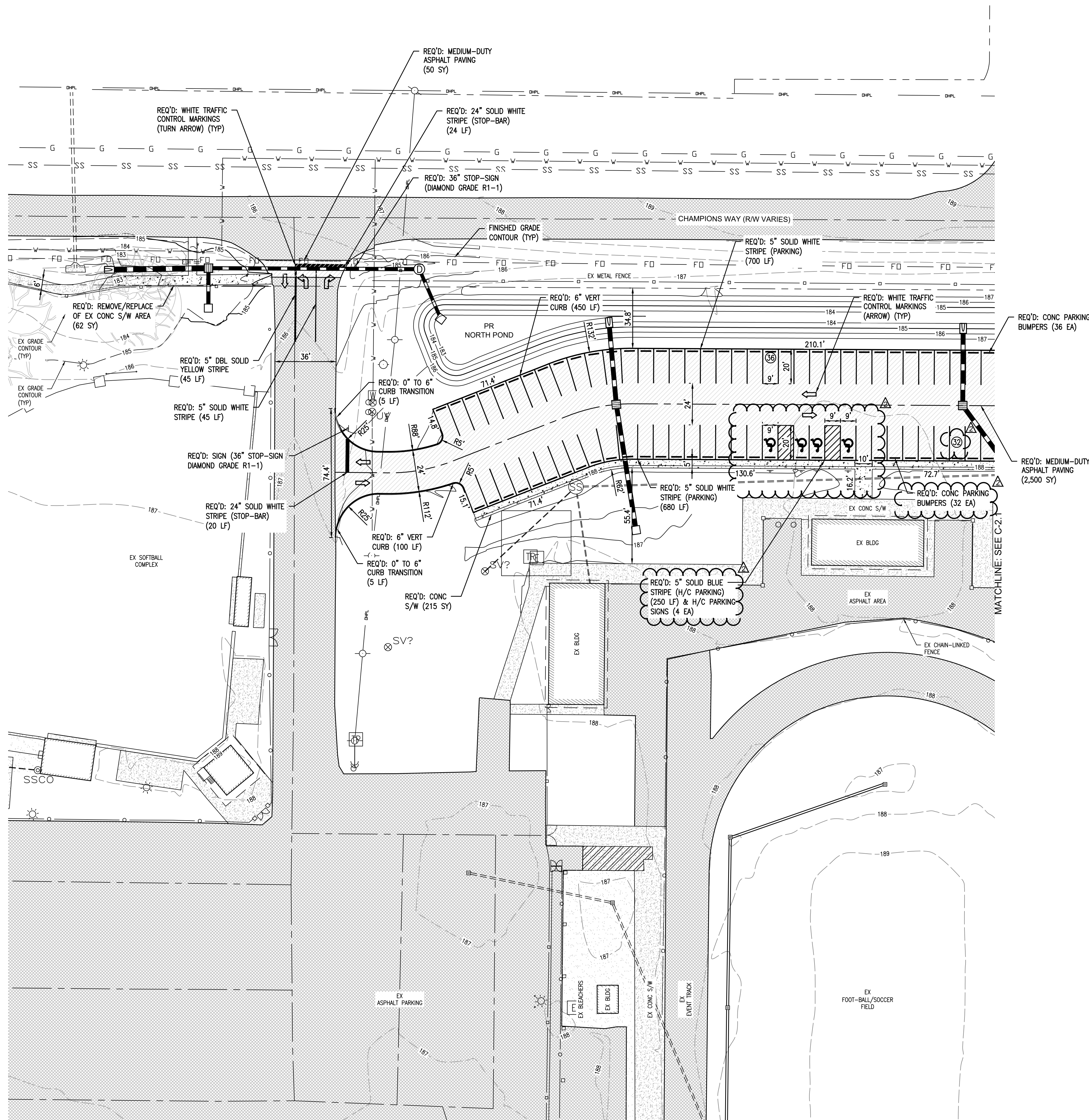
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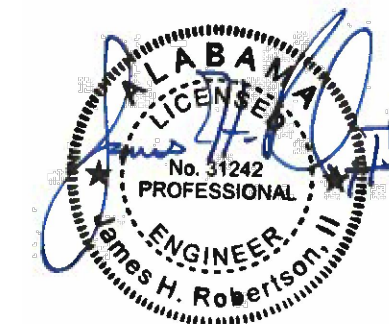
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| PR SCo    | PR SEWER CO           |
| PR SW     | PR DRAINAGE SWALE     |
| PR F      | PR FENCE              |
| PR GAS    | PR GAS-LINE           |
| PR MD ASP | PR MD ASPHALT AREA    |
| PR LD ASP | PR LD ASPHALT AREA    |
| PR OVR    | PR OVERLAY AREA       |
| PR CONC   | PR CONC AREA          |
| PR BLD    | PR BLDG               |



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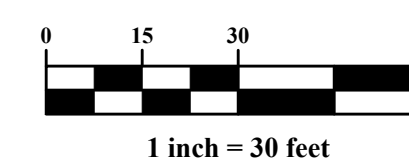
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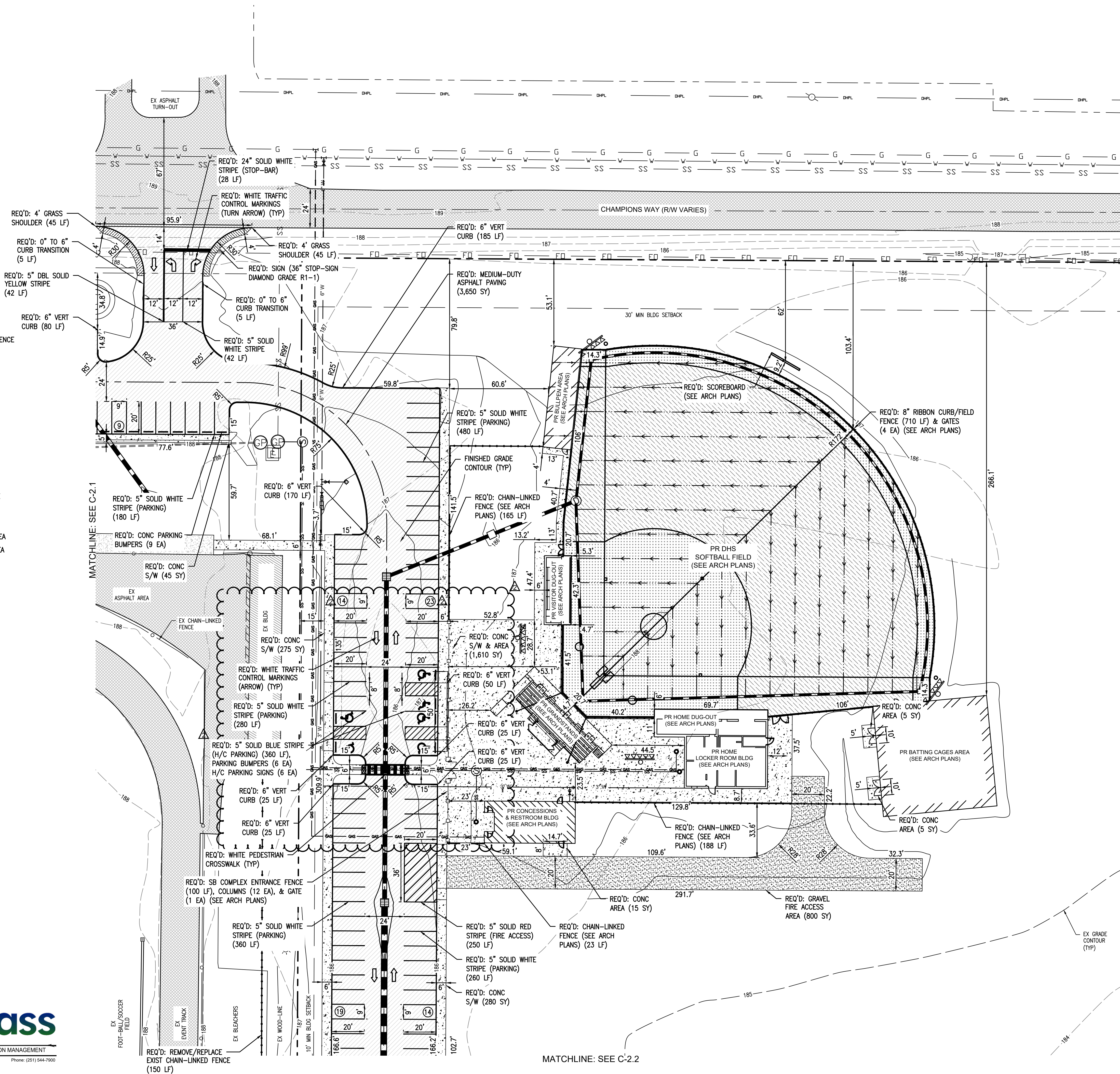
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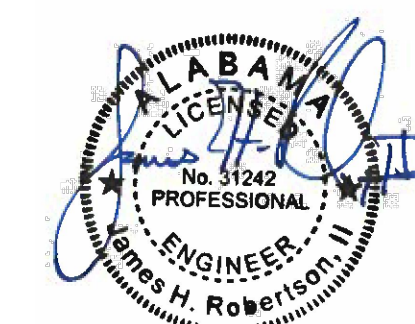


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  - EX WOOD-LINE
  - EX BLDG AREA
  - EX ASPHALT AREA
  - EX CONC AREA
  - EX WETLANDS AREA
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  - PR FIRE HYDRANT
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  - PR DRAINAGE SWALE
  - PR FENCE
  - PR GAS-LINE
  - PR MD ASPHALT AREA
  - PR LD ASPHALT AREA
  - PR OVERLAY AREA
  - PR CONC AREA
  - PR BLDG



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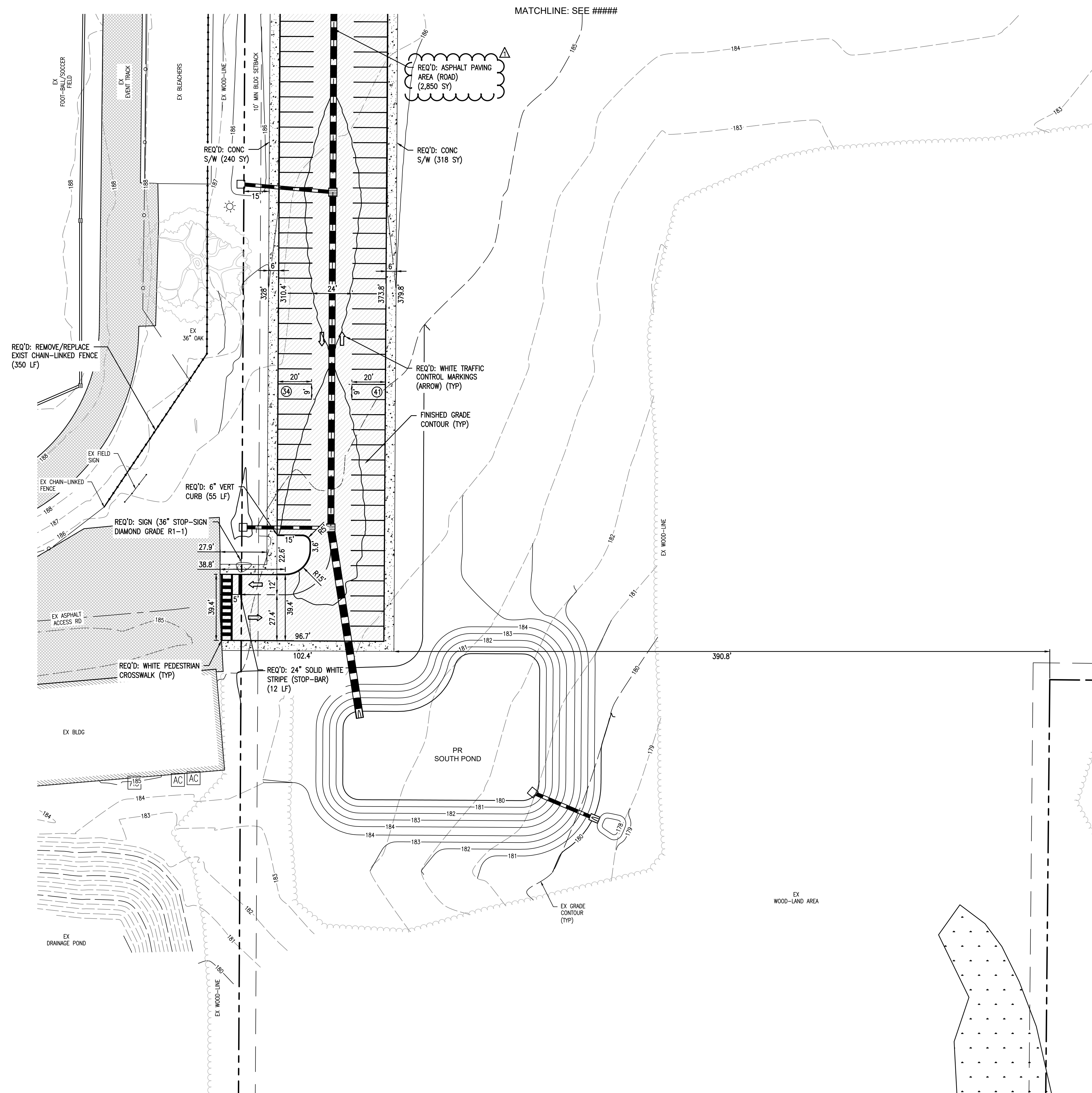
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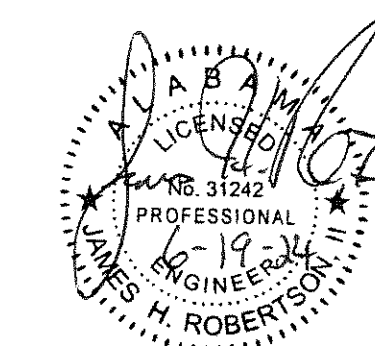
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	PR FENCE
	PR GAS-LINE
	PR MD ASPHALT AREA
	PR LD ASPHALT AREA
	PR OVERLAY AREA
	PR CONC AREA
	PR BLDG



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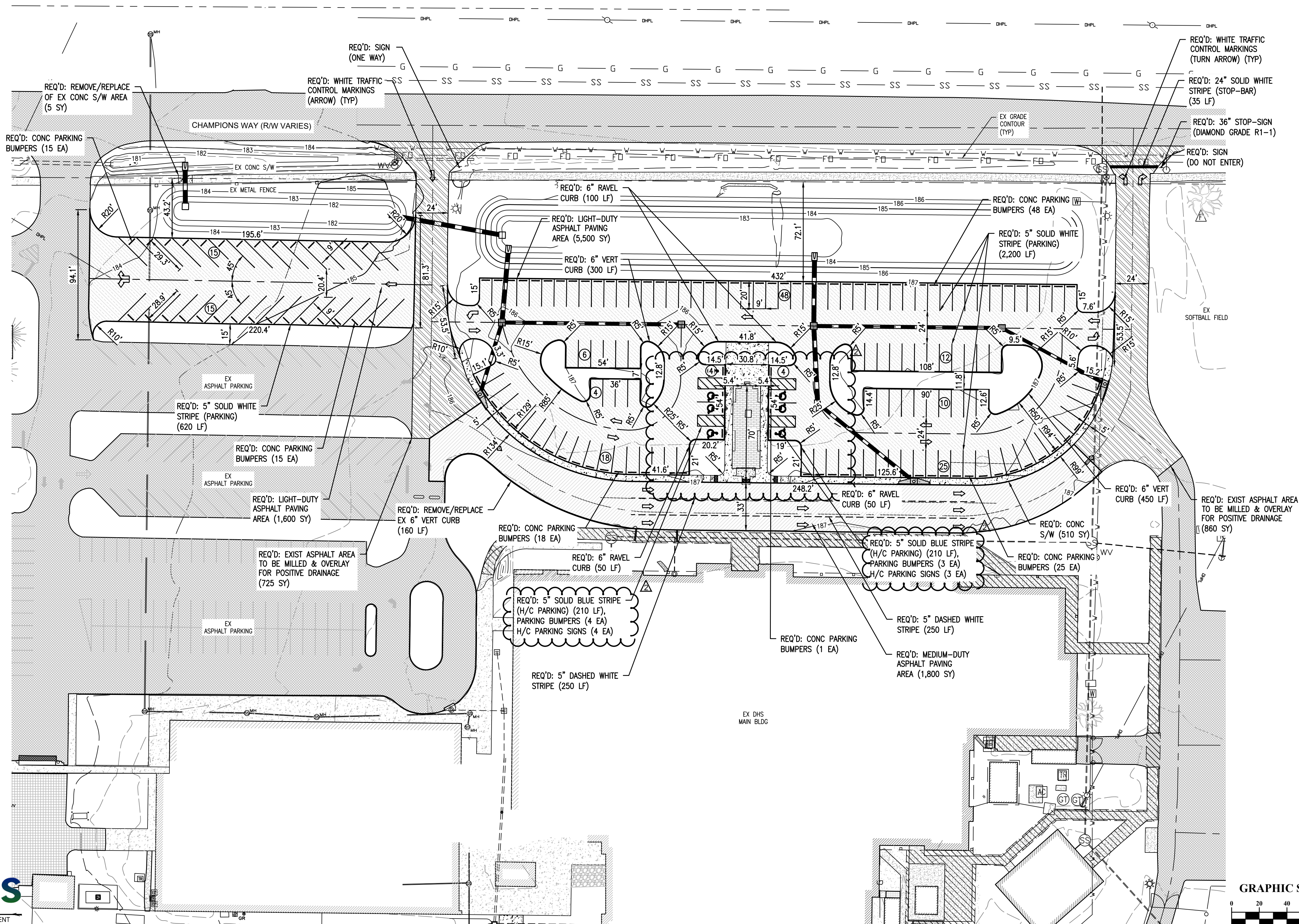
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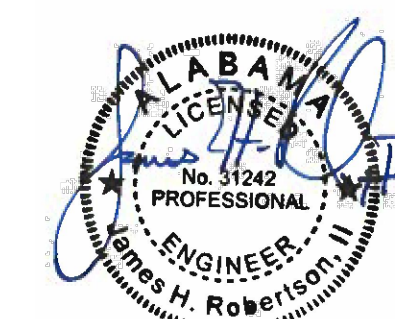
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	PR FENCE
	PR GAS-LINE
	PR MD ASPHALT AREA
	PR LD ASPHALT AREA
	PR OVERLAY AREA
	PR CONC AREA
	PR BLDG



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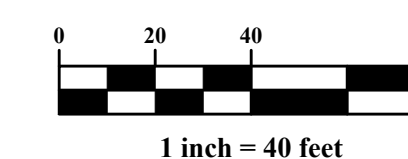
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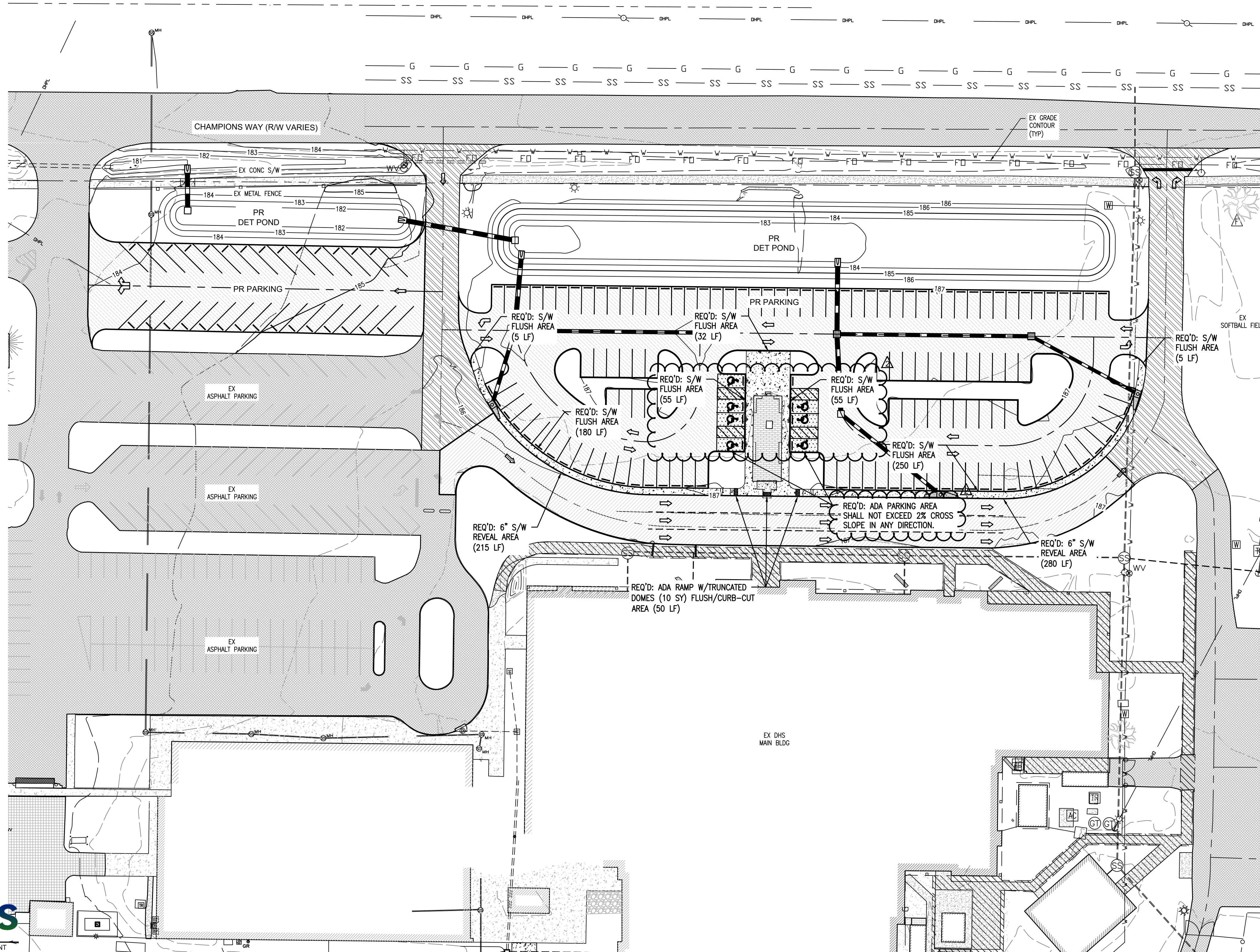




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| W    | R/W-PROP LINE         |
| W    | EX WATER-LINE         |
| WV   | EX WATER VALVE        |
| FH   | EX FIRE HYDRANT       |
| WM   | EX WATER METER        |
| SS   | EX SEWER-LINE         |
| SSV  | EX SEWER VALVE        |
| MH   | EX SEWER MH           |
| LS   | EX LIFT STATION       |
| GP   | EX GRINDER PUMP       |
| FO   | EX FIBER-LINE         |
| E    | EX UG POWER-LINE      |
| OHPL | EX OH POWER-LINE      |
| EB   | EX ELEC BOX           |
| TR   | EX TRANSFORMER        |
| AC   | EX AC UNIT            |
| PP   | EX POWER POLE         |
| LP   | EX LIGHT POLE         |
| GW   | EX GUY WIRE           |
| GAS  | EX GAS-LINE           |
| GR   | EX GAS REGULATOR      |
| DP   | EX DRAINAGE PIPE      |
| DMH  | EX DRAINAGE MH        |
| GI   | EX GRATE INLET        |
| HH   | EX HAND-HOLE          |
| CLF  | EX CHAIN-LINKED FENCE |
| MF   | EX METAL FENCE        |
| WL   | EX WOOD-LINE          |
| BLDG | EX BLDG AREA          |
| ASPH | EX ASPHALT AREA       |
| CONC | EX CONC AREA          |
| WET  | EX WETLANDS AREA      |
| W    | PR WATER-LINE         |
| WV   | PR FIRE HYDRANT       |
| SS   | PR SEWER-LINE         |
| MH   | PR SEWER MH           |
| CO   | PR SEWER CO           |
| SW   | PR DRAINAGE SWALE     |
| F    | PR FENCE              |
| G    | PR GAS-LINE           |
| MD   | PR MD ASPHALT AREA    |
| LD   | PR LD ASPHALT AREA    |
| OV   | PR OVERLAY AREA       |
| CONC | PR CONC AREA          |
| BLDG | PR BLDG               |

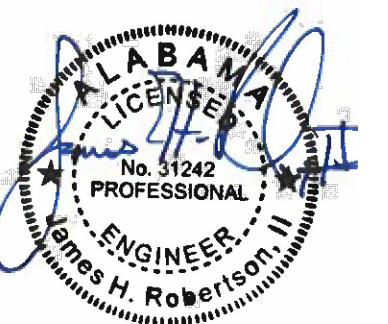
**NOTE:**

1. ADA PARKING SHALL NOT EXCEED 2.0% CROSS SLOPE IN ANY DIRECTION.



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ADA SIDEWALK & RAMP  
PLAN 01

MCKEE JOB # : 23-199

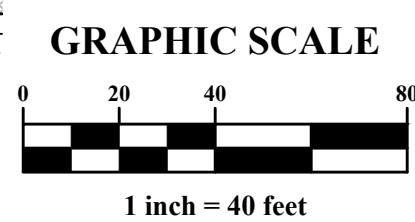
DRAWN BY : BAT/EI

DATE : 06-04-24

REVISED DATE : 06-19-24

REVISED DATE : 07-12-24

REVISED DATE :



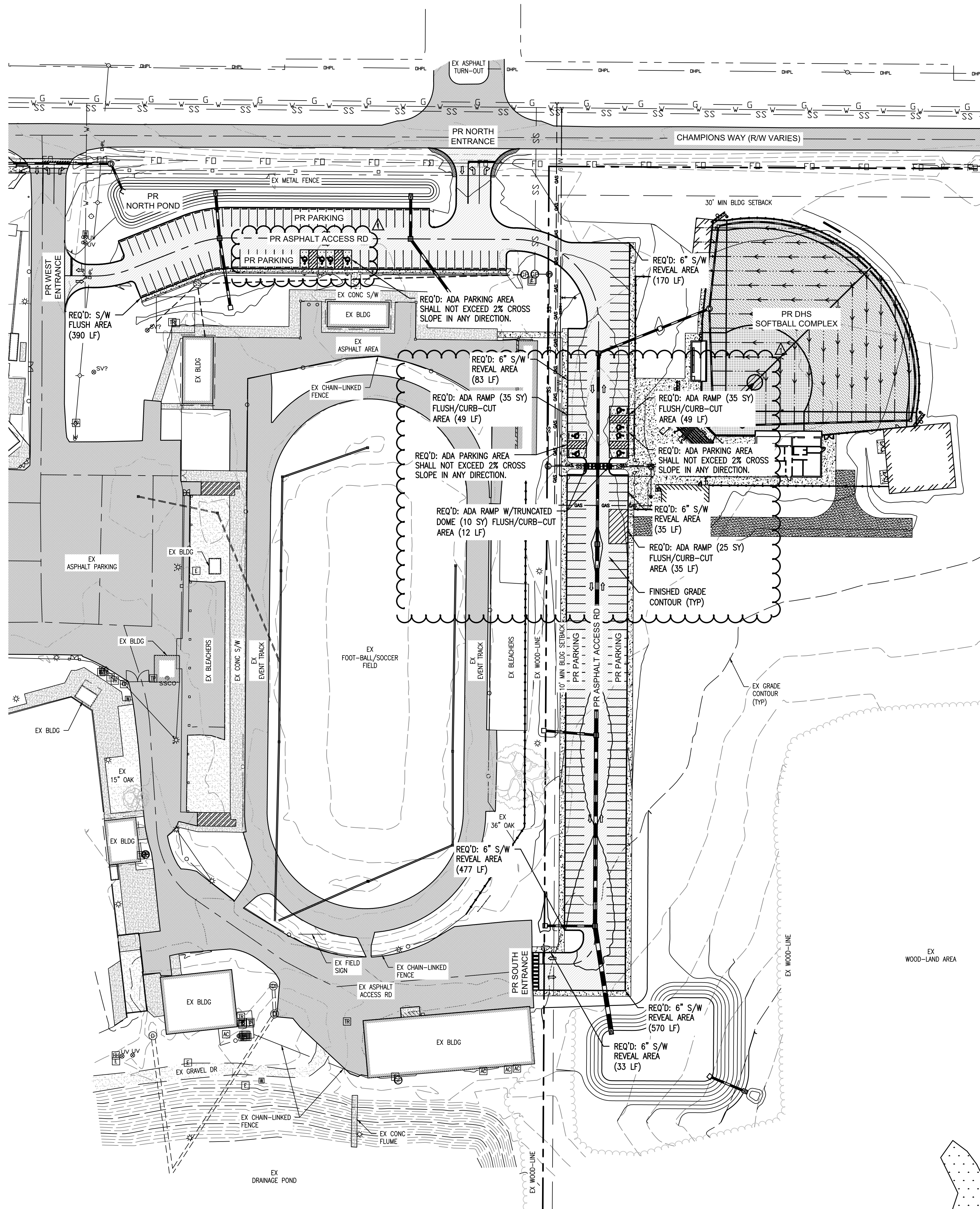
SHEET NO. : C-2.4



- LEGEND**
- |      |                       |
|------|-----------------------|
| W    | R/W-PROP LINE         |
| W    | EX WATER-LINE         |
| WV   | EX WATER VALVE        |
| FH   | EX FIRE HYDRANT       |
| WM   | EX WATER METER        |
| SS   | EX SEWER-LINE         |
| SSV  | EX SEWER VALVE        |
| SMH  | EX SEWER MH           |
| LS   | EX LIFT STATION       |
| GP   | EX GRINDER PUMP       |
| FO   | EX FIBER-LINE         |
| E    | EX UG POWER-LINE      |
| OHPL | EX OH POWER-LINE      |
| EB   | EX ELEC BOX           |
| TR   | EX TRANSFORMER        |
| AC   | EX AC UNIT            |
| PP   | EX POWER POLE         |
| LP   | EX LIGHT POLE         |
| GW   | EX GUY WIRE           |
| GAS  | EX GAS-LINE           |
| GR   | EX GAS REGULATOR      |
| DP   | EX DRAINAGE PIPE      |
| DMH  | EX DRAINAGE MH        |
| GI   | EX GRATE INLET        |
| HH   | EX HAND-HOLE          |
| CLF  | EX CHAIN-LINKED FENCE |
| MF   | EX METAL FENCE        |
| WL   | EX WOOD-LINE          |
| BLDG | EX BLDG AREA          |
| ASPH | EX ASPHALT AREA       |
| CONC | EX CONC AREA          |
| WET  | EX WETLANDS AREA      |
| W    | PR WATER-LINE         |
| WV   | PR FIRE HYDRANT       |
| SS   | PR SEWER-LINE         |
| SMH  | PR SEWER MH           |
| LS   | PR SEWER CO           |
| SW   | PR DRAINAGE SWALE     |
| F    | PR FENCE              |
| GAS  | PR GAS-LINE           |
| MD   | PR MD ASPHALT AREA    |
| LD   | PR LD ASPHALT AREA    |
| OV   | PR OVERLAY AREA       |
| CONC | PR CONC AREA          |
| BLDG | PR BLDG               |

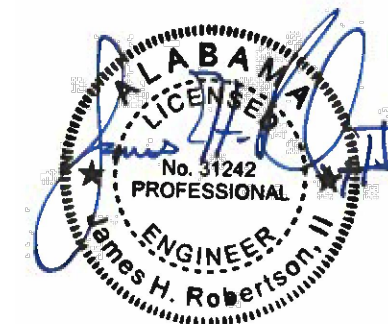
**NOTE:**

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**NEW SOFTBALL COMPLEX  
AT  
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**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ADA SIDEWALK & RAMP  
PLAN 02

MCKEE JOB # : 23-199

DRAWN BY : BAT/EI

DATE : 06-04-24

REVISED DATE : 07-12-24

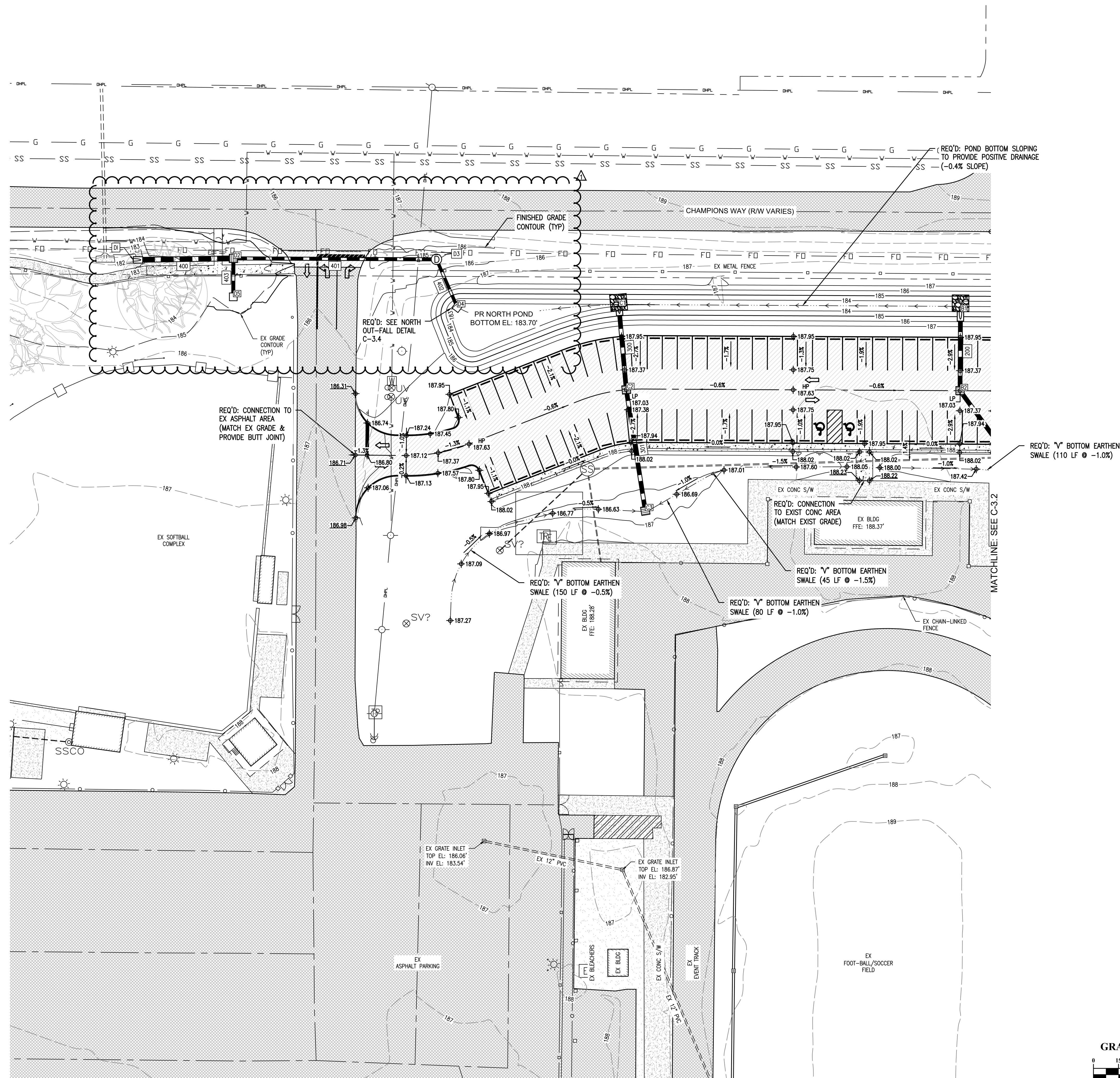
REVISED DATE :

REVISED DATE :

SHEET NO. : C-2.5



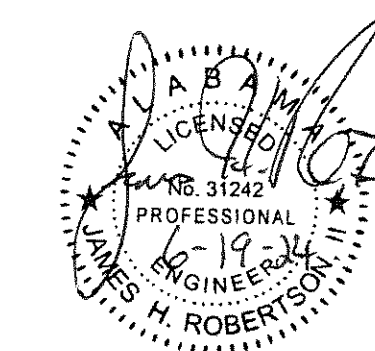
	R/W—PROP LINE
	EX WATER—LINE
	EX WATER VALVE
	EX FIRE HYDRANT
	EX WATER METER
	EX SEWER—LINE
	EX SEWER VALVE
	EX SEWER MH
	EX LIFT STATION
	EX GRINDER PUMP
	EX FIBER—LINE
	EX UG POWER—LINE
	EX OH POWER—LINE
	EX ELEC BOX
	EX TRANSFORMER
	EX AC UNIT
	EX POWER POLE
	EX LIGHT POLE
	EX GUY WIRE
	EX GAS—LINE
	EX GAS REGULATOR
	EX DRAINAGE PIPE
	EX DRAINAGE MH
	EX GRATE INLET
	EX HAND—HOLE
	EX CHAIN—LINKED FENCE
	EX METAL FENCE
	EX WOOD—LINE
	EX BLDG AREA
	EX ASPHALT AREA
	EX CONC AREA
	EX WETLANDS AREA
	PR WATER—LINE
	PR FIRE HYDRANT
	PR SEWER—LINE
	PR SEWER MH
	PR SEWER CO
	PR DRAINAGE SWALE
	PR FENCE
	PR GAS—LINE
	PR MD ASPHALT AREA
	PR LD ASPHALT AREA
	PR OVERLAY AREA
	PR CONC AREA
	PR BLDG



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY BOF

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

ARCHITECTS, INC.  
331 SOUTH HILL STREET MONTGOMERY ALABAMA 36104 (334) 834-9933



SHEET TITLE : GRADING & DRAINAGE  
PLAN 01

MCKEE JOB # : 23-199

DRAWN BY : BAT/EI

DATE: 06-04-24

REVISÉD DATE: 06-20-24 

REVISÉ DATE:

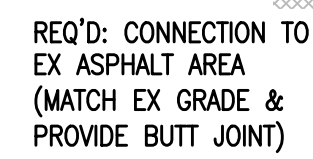
REVISÉ DATE:

SHEET NO. : C-3.0





	R/W-PROP LINE	
	EX WATER-LINE	
	EX WATER VALVE	
	EX FIRE HYDRANT	
	EX WATER METER	
	EX SEWER-LINE	
	EX SEWER VALVE	
	EX SEWER MH	
	EX LIFT STATION	
	EX GRINDER PUMP	
	EX FIBER-LINE	
	EX UG POWER-LINE	
	EX OH POWER-LINE	
	EX ELEC BOX	
	EX TRANSFORMER	
	EX AC UNIT	
	EX POWER POLE	
	EX LIGHT POLE	
	EX GUY WIRE	
	EX GAS-LINE	
	EX GAS REGULATOR	
	EX DRAINAGE PIPE	
	EX DRAINAGE MH	
	EX GRATE INLET	
	EX HAND-HOLE	
	EX CHAIN-LINKED FENCE	
	EX METAL FENCE	
	EX WOOD-LINE	
	EX BLDG AREA	
	EX ASPHALT AREA	
	EX CONC AREA	
	EX WETLANDS AREA	
	PR WATER-LINE	
	PR FIRE HYDRANT	
	PR SEWER-LINE	
	PR SEWER MH	REQ'D:
	PR SEWER CO	SWALE
	PR DRAINAGE SWALE	
	PR FENCE	
	PR GAS-LINE	
	PR MD ASPHALT AREA	
	PR LD ASPHALT AREA	
	PR OVERLAY AREA	
	PR CONC AREA	
	PR BLDG	

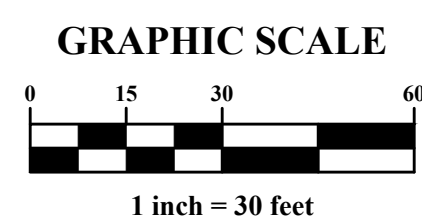


REQ'D: "V" BOTTOM EARTHEN  
SWALE (110 LF @ -1.0%)

EA

**ASS**  
INTEGRATION MANAGEMENT

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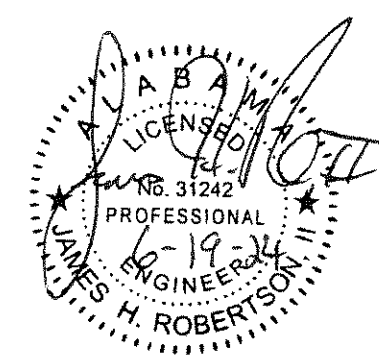
# NEW SOFTBALL COMPLEX

AT  
DAPHNE HIGH SCHOOL

FOR THE  
BALDWIN COUNTY B.O.E.

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : GRADING & DRAINAGE  
PLAN 02

MCKEE JOB # : 23-199

DRAWN BY : BAT/EI

DATE: 06-04-24

REVISÉD DATE: 06-19-24 

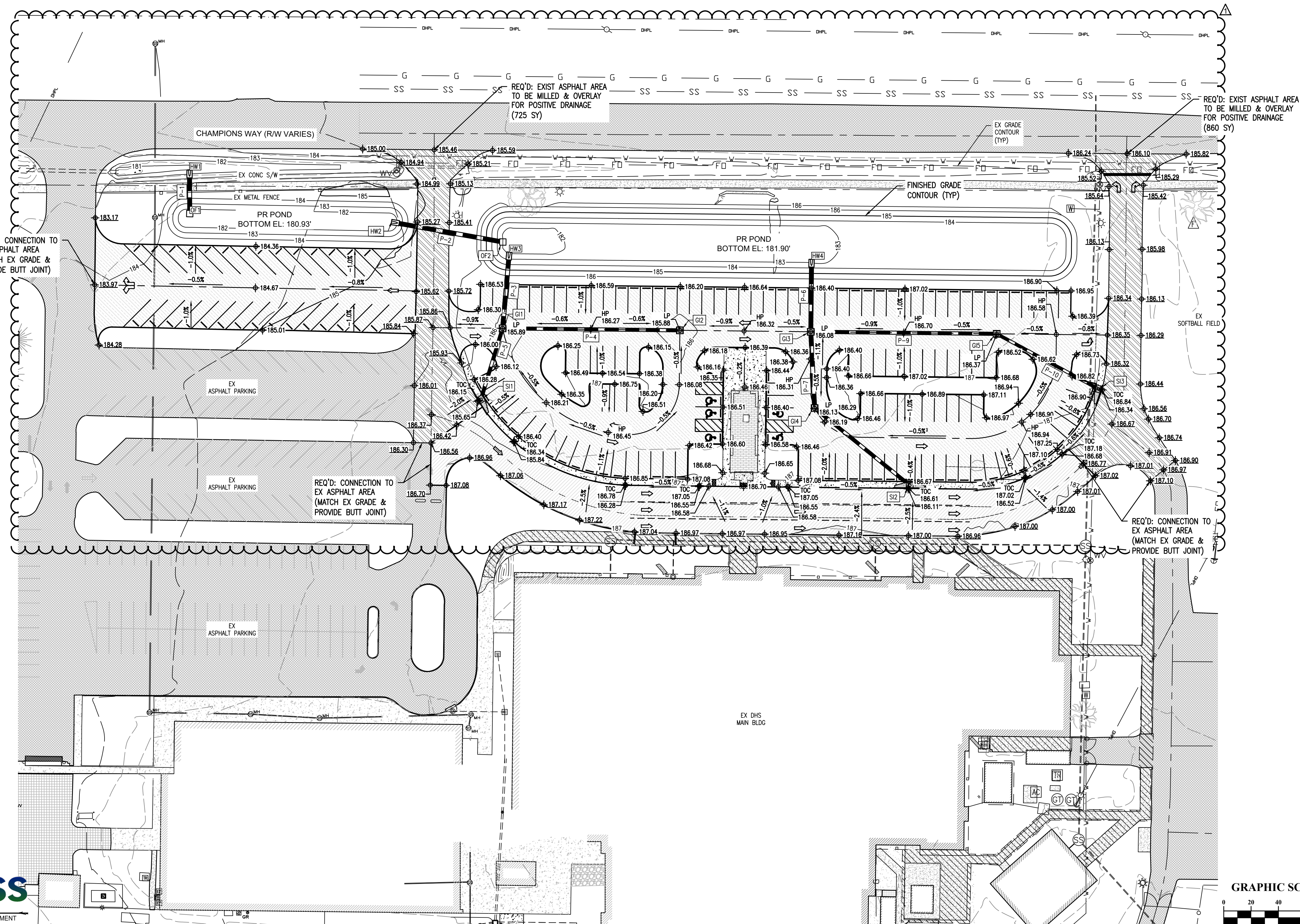
REVISÉD DATE:

REVISÉ DATE:

SHEET NO. : C-3.1



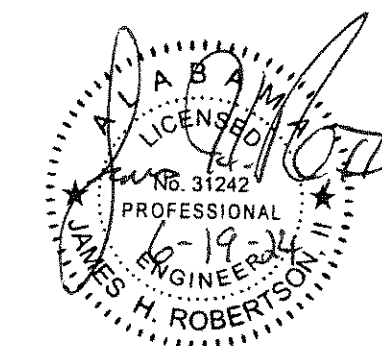
- LEGEND**
- W/W-PROP LINE
  - EX WATER-LINE
  - EX WATER VALVE
  - EX FIRE HYDRANT
  - EX WATER METER
  - EX SEWER-LINE
  - EX SEWER VALVE
  - EX SEWER MH
  - EX LIFT STATION
  - EX GRINDER PUMP
  - EX FIBER-LINE
  - EX UG POWER-LINE
  - EX OH POWER-LINE
  - EX ELEC BOX
  - EX TRANSFORMER
  - EX AC UNIT
  - EX POWER POLE
  - EX LIGHT POLE
  - EX GUY WIRE
  - EX GAS-LINE
  - EX GAS REGULATOR
  - EX DRAINAGE PIPE
  - EX DRAINAGE MH
  - EX GRATE INLET
  - EX HAND-HOLE
  - EX CHAIN-LINKED FENCE
  - EX METAL FENCE
  - EX WOOD-LINE
  - EX BLDG AREA
  - EX ASPHALT AREA
  - EX CONC AREA
  - EX WETLANDS AREA
  - PR WATER-LINE
  - PR FIRE HYDRANT
  - PR SEWER-LINE
  - PR SEWER MH
  - PR SEWER CO
  - PR DRAINAGE SWALE
  - PR FENCE
  - PR GAS-LINE
  - PR MD ASPHALT AREA
  - PR LD ASPHALT AREA
  - PR OVERLAY AREA
  - PR CONC AREA
  - PR BLDG



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

**McKee and Associates**  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : GRADING & DRAINAGE  
PLAN 04

McKee JOB # : 23-199

DRAWN BY : BAT/EI

DATE : 06-04-24

REVISED DATE : 06-19-24

REVISED DATE :

REVISED DATE :

SHEET NO. : C-3.3



WEST PARKING HEADWALL SCHEDULE	
NAME	INVERT
HW1	181.00 (P-1)
HW2	181.53 (P-2)
HW3	181.80 (P-3)
HW4	182.90 (P-6)

WEST PARKING S-INLET SCHEDULE				
NAME	RIM EL	THROAT EL	INV IN	INV OUT
SI1 48 x 48 inch Rectangular Structure	186.18	185.18		182.35 (P-5)
SI2 48 x 48 inch Rectangular Structure	186.63	185.63		183.50 (P-8)
SI3 48 x 48 inch Rectangular Structure	186.86	185.86		183.72 (P-10)

WEST PARKING GRATE INLET SCHEDULE			
NAME	RIM EL	INV IN	INV OUT
GI1	185.89	182.08 (P-4) 182.08 (P-5)	182.08 (P-3)
GI2	185.88		182.73 (P-4)
GI3	186.08	183.06 (P-9) 183.06 (P-7)	183.06 (P-6)
GI4	186.13	183.23 (P-8)	183.23 (P-7)
GI5	186.36	183.47 (P-10)	183.47 (P-9)

WEST PARKING STORM PIPE SCHEDULE						
PIPE NAME	SIZE	SLOPE	LENGTH	STRUCTURE 1	STRUCTURE 2	
P-1	29 x 18 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	29 L.F.	OF1	HW1	
P-2	29 x 18 inch Concrete Horizontal Elliptical Arch Pipe	0.31%	80 L.F.	OF2	HW2	
P-3	29 x 18 inch Concrete Horizontal Elliptical Arch Pipe	0.50%	53 L.F.	GI1	HW3	
P-4	22 x 14 inch Concrete Horizontal Elliptical Arch Pipe	0.50%	126 L.F.	GI2	GI1	
P-5	22 x 14 inch Concrete Horizontal Elliptical Arch Pipe	0.50%	50 L.F.	SI1	GI1	
P-6	29 x 18 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	52 L.F.	GI3	HW4	
P-7	29 x 18 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	52 L.F.	GI4	GI3	
P-8	22 x 14 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	85 L.F.	SI2	GI4	
P-9	22 x 14 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	133 L.F.	GI5	GI3	
P-10	18 x 11 inch Concrete Horizontal Elliptical Arch Pipe	0.30%	81 L.F.	SI3	GI5	

PARKING STORM PIPE SCHEDULE						
PIPE NAME	SIZE	SLOPE	LENGTH	STRUCTURE 1	STRUCTURE 2	
100	44"x27" RCAP	0.30%	111 L.F.	A1	A2	
101	36"x23" RCAP	0.30%	197 L.F.	A2	A3	
102	36"x23" RCAP	0.30%	197 L.F.	A3	A4	
103	24" RCP	0.30%	197 L.F.	A4	A5	
104	18" RCP	0.30%	66 L.F.	A5	A6	
105	18" RCP	0.31%	52 L.F.	A6	A7	
106	18" RCP	0.50%	51 L.F.	A3	A8	
107	18" RCP	0.73%	49 L.F.	A2	A9	
200	22"x14" RCAP	0.30%	44 L.F.	B1	B2	
201	22"x14" RCAP	0.30%	88 L.F.	B2	B3	
300	22"x14" RCAP	0.30%	47 L.F.	C1	C2	
301	22"x14" RCAP	0.30%	70 L.F.	C2	C3	
400	29"x18" RCAP	0.31%	57 L.F.	D2	DI	
401	18" RCP	0.30%	118 L.F.	D3	D2	
402	15" RCP	0.52%	27 L.F.	D4	D3	
403	18" RCP	0.50%	20 L.F.	D5	D2	
600	18" RCP	0.30%	39 L.F.	F2	F1	

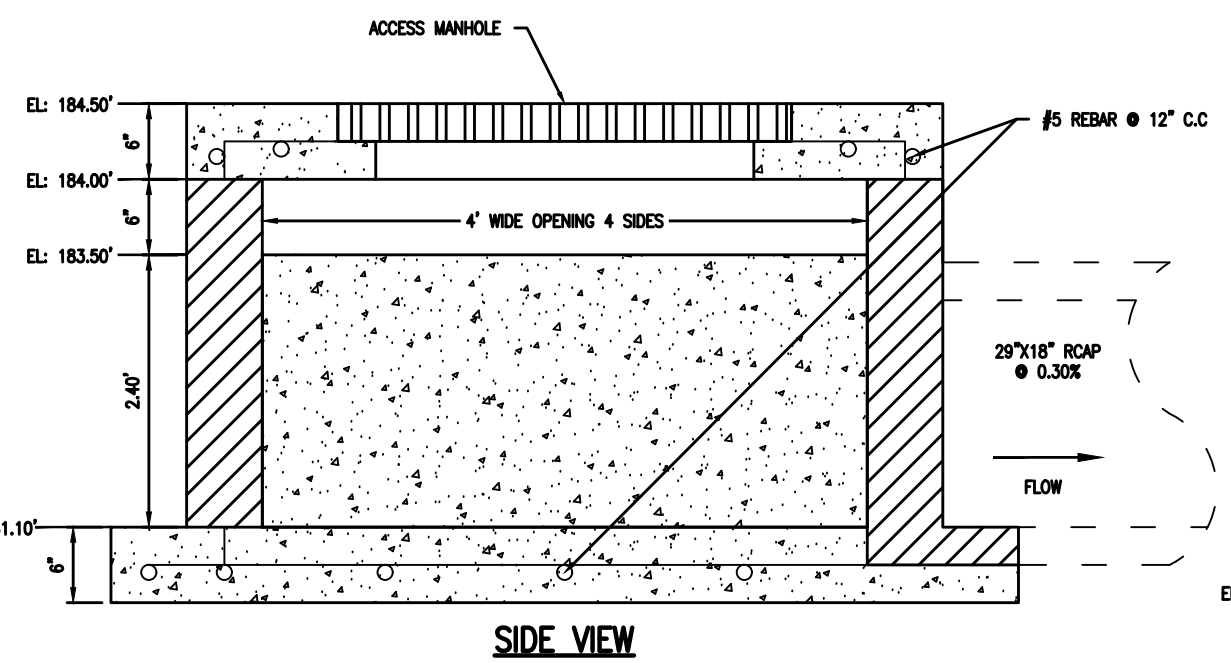
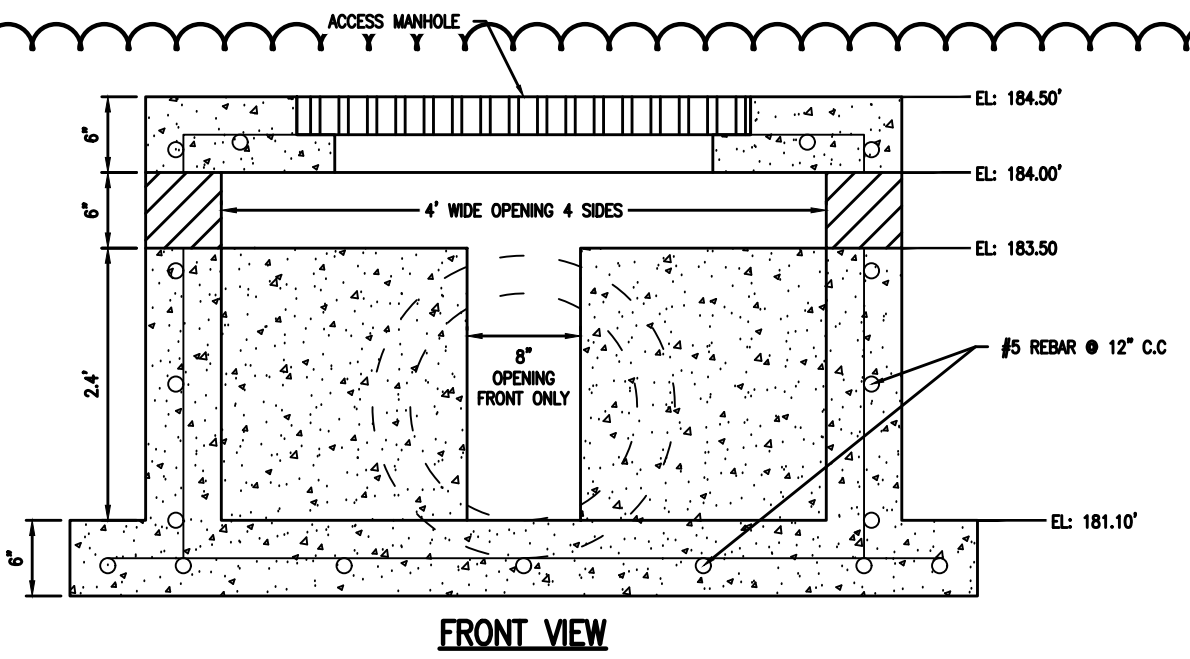
PARKING GRATE INLET SCHEDULE			
NAME	RIM EL	INV IN	INV OUT
A2	184.42	179.89 (101) 181.42 (107)	179.89 (100)
A3	184.42	180.50 (102) 181.42 (106)	180.50 (101)
A4	184.78	181.10 (103)	181.10 (102)
A5	185.45	181.70 (104)	181.70 (103)
B2	187.03	183.87 (201)	183.87 (200)
B3	186.90		184.15 (201)
C2	187.03	183.15 (301)	183.15 (300)
C3	186.50		183.37 (301)
D2	184.35	181.75 (401) 181.75 (403)	181.75 (400)

PARKING WEIR INLET SCHEDULE				
NAME	RIM EL	THROAT EL	INV IN	INV OUT
A6 GRATE INLET	186.90	185.90	181.91 (105)	181.91 (104)
A8 WEIR INLET	186.00	185.00		181.69 (106)
A9 WEIR INLET	185.80	184.80		181.80 (107)
D5 48 x 48 inch Rectangular Structure	185.37	184.37		181.87 (403)

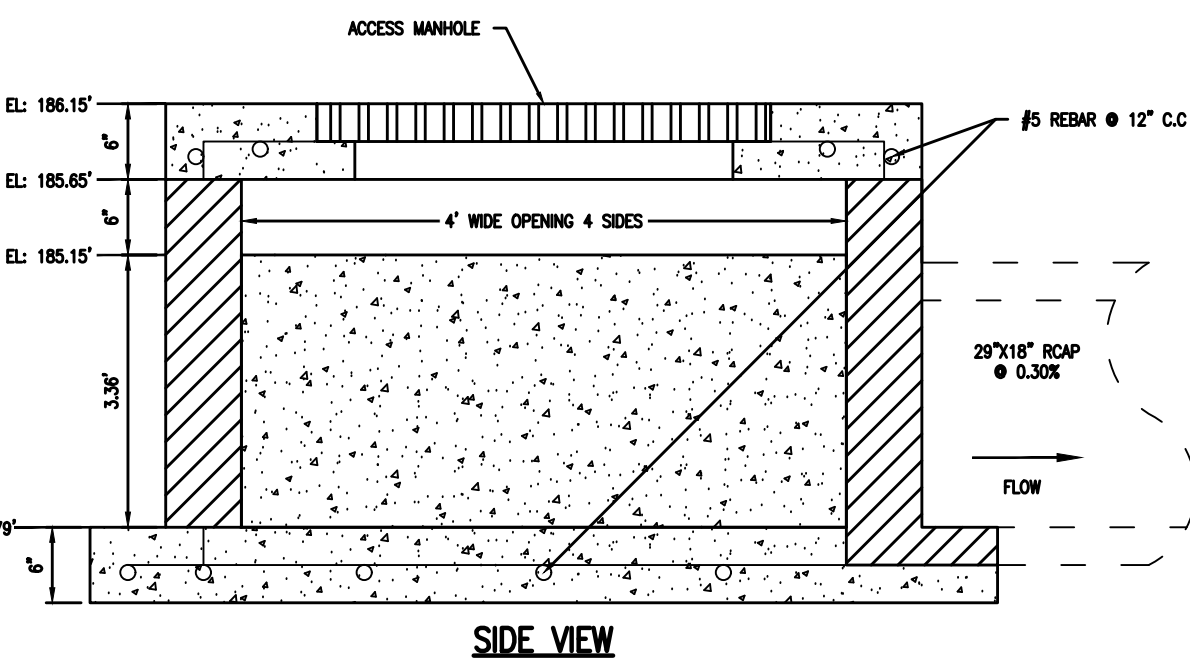
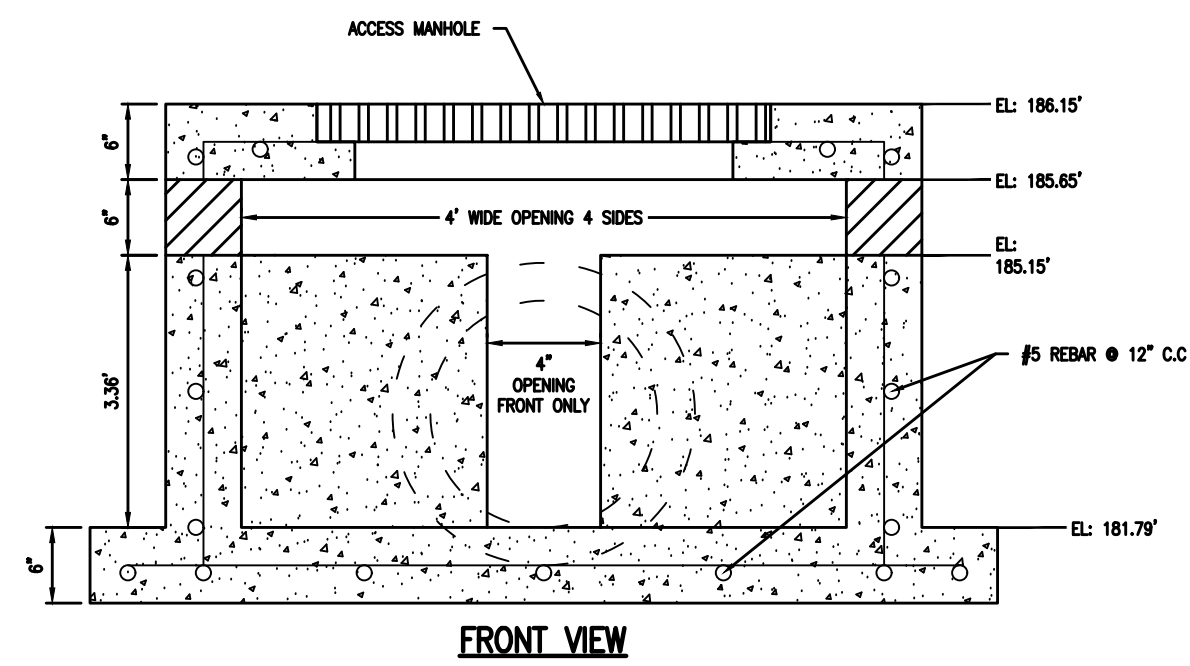
PARKING HEADWALL SCHEDULE	
NAME	INVERT
A1	179.55 (100)
B1	183.73 (200)
C1	183.00 (300)
DI	181.57 (400)
F1	179.00 (600)

PARKING JUNCTION BOX SCHEDULE			
NAME	RIM EL	INV IN	INV OUT
A7	186.95		182.08 (105)
D3	186.18	182.37 (402)	182.12 (401)

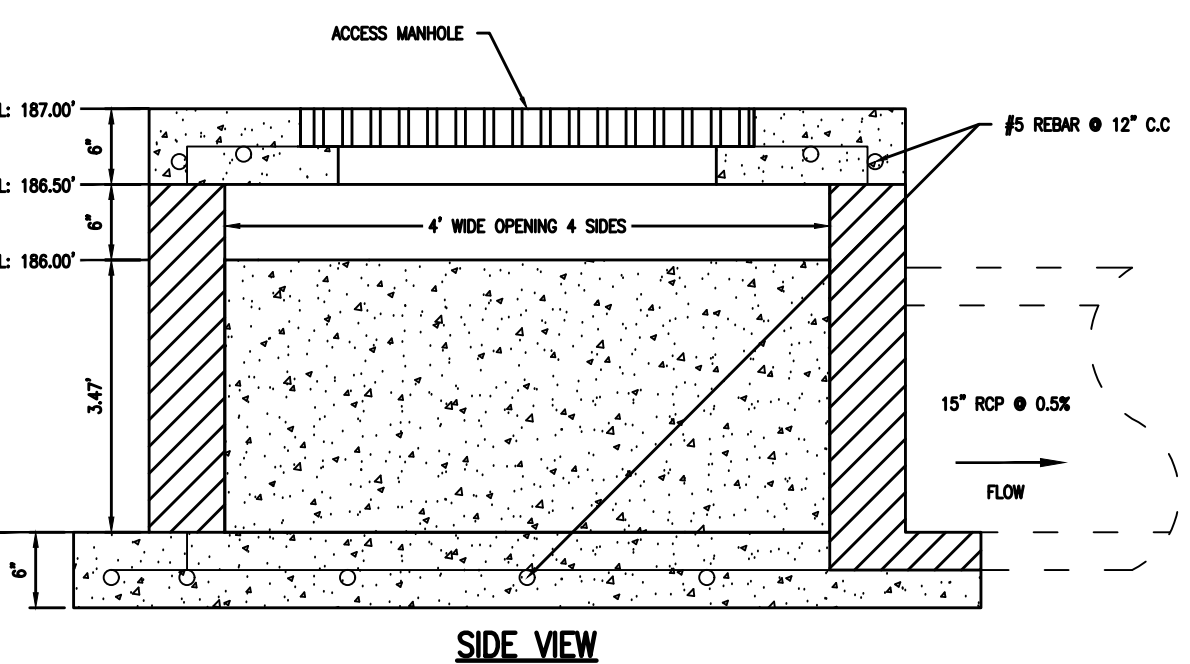
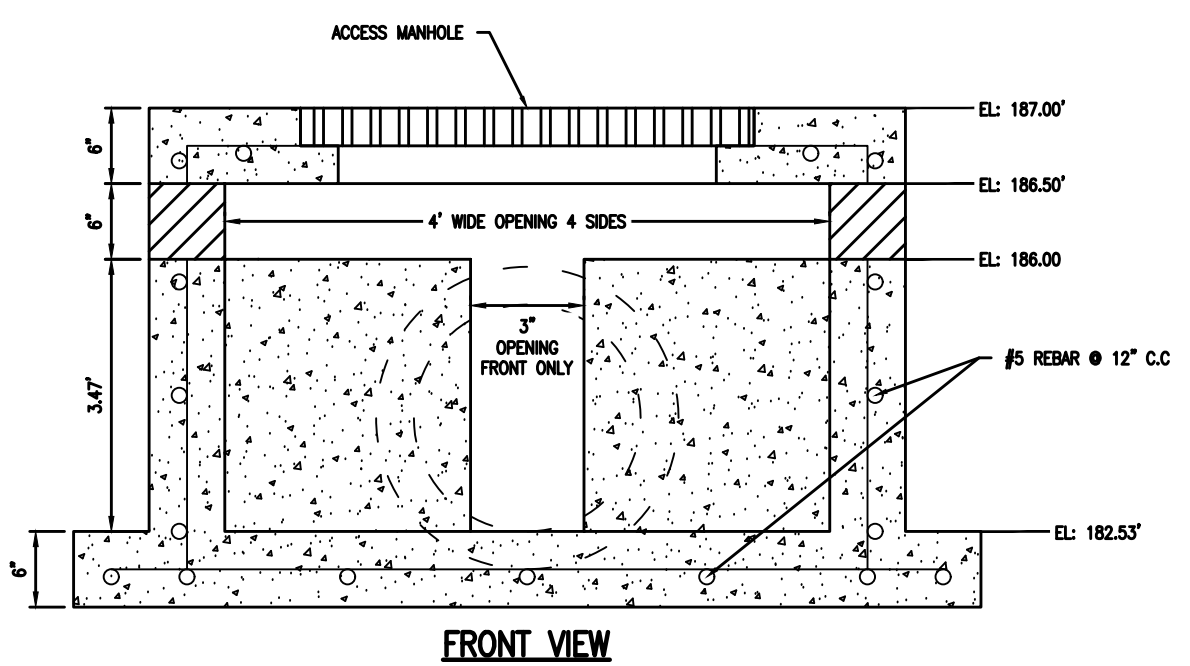
SOFTBALL STORM PIPE SCHEDULE					
PIPE NAME	SIZE	SLOPE	LENGTH	STRUCTURE 1	STRUCTURE 2
500	12" CPPP	0.62%	121 L.F.		S1
501	12" CPPP	0.60%	205 L.F.	S1	S2
502	12" CPPP	0.50%	169 L.F.		S2
503	12" CPPP	0.60%	84 L.F.	S3	
504	12" CPPP	0.60%	169 L.F.		S3



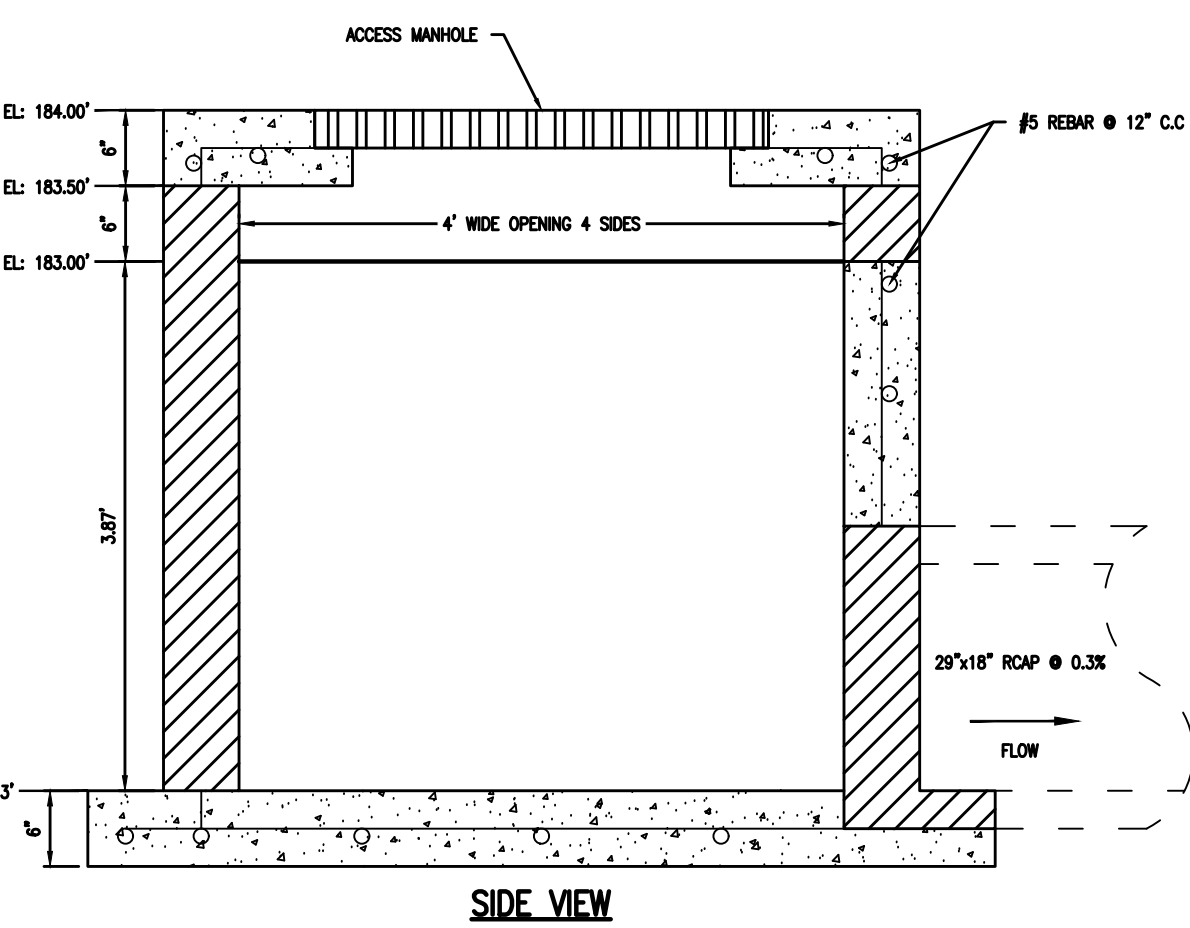
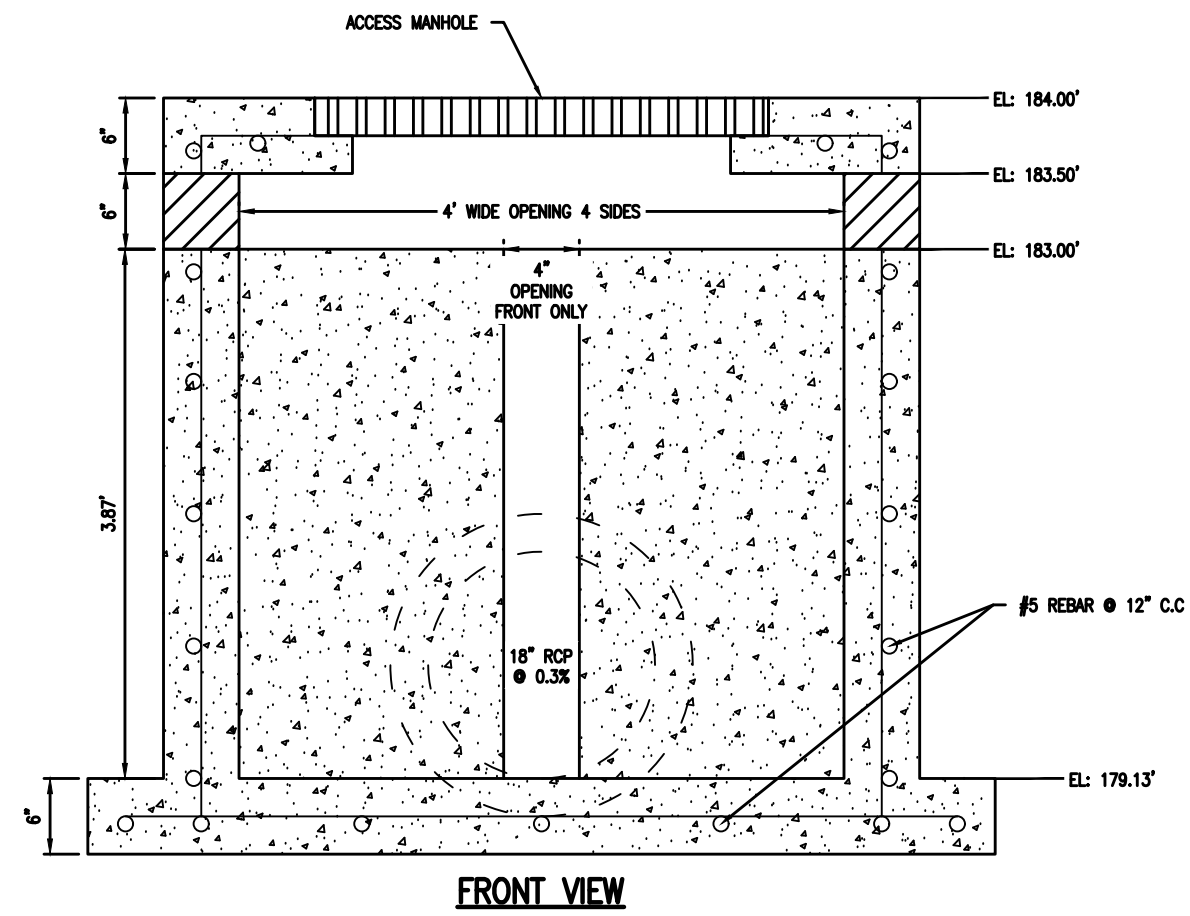
WEST POND OUT-FALL DETAIL (OF1)  
N.T.S.



EAST POND OUT-FALL DETAIL (OF2)  
N.T.S.



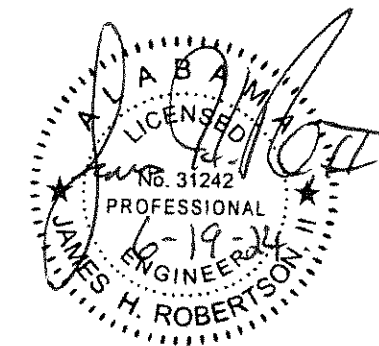
NORTH POND OUT-FALL DETAIL (D2)  
N.T.S.



SOUTH POND OUT-FALL DETAIL (F2)  
N.T.S.



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.



SHEET TITLE : STORM TABLES

MCKEE JOB # : 23-199

DRAWN BY : BAT/EI

DATE : 06-04-24

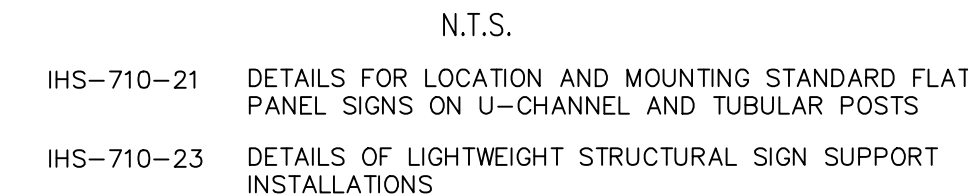
REVISED DATE : 06-19-24

REVISED DATE :

REVISED DATE :

SHEET NO. : C-3.4





N.T.S.

- EX. ASPHALT OVERLAY SECTION

N.T.S.



N.T.S.

- CONC ADA RAMP TYPE "2" DETAIL

N.T.S.



NTS



N.T.S.

- NOTE:

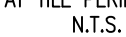
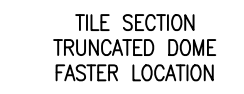
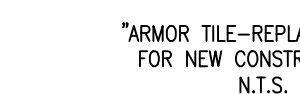
ALL PAVEMENT MARKINGS SHALL BE PAINTED TWO COATS.

### VAN ACCESSIBLE HANDICAPPED STALL DETAIL

N.T.S.



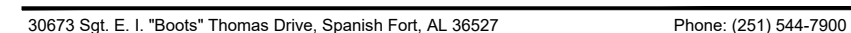
NTS



N.1.3.

TRUNCATED DOME DETAIL

N.T.S.



MCKEE JOB #: 23-199

DRAWN BY : BAT/EI

DATE: 06-04-24

REVISÉD DATE: 06-20-24 

REVISÉ DATE:

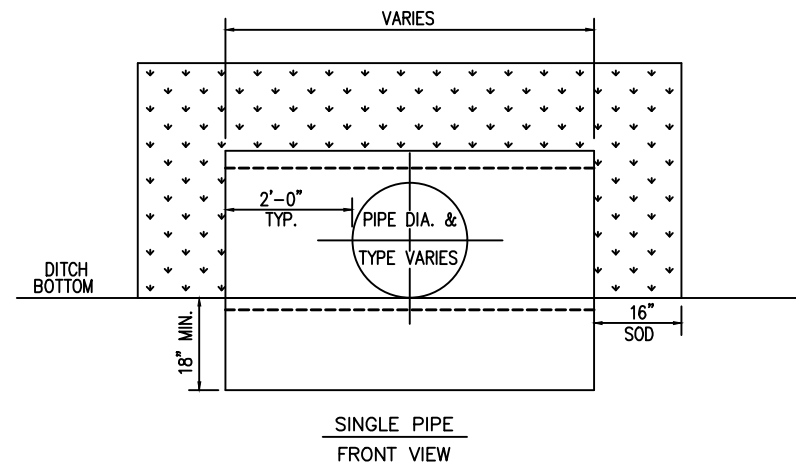
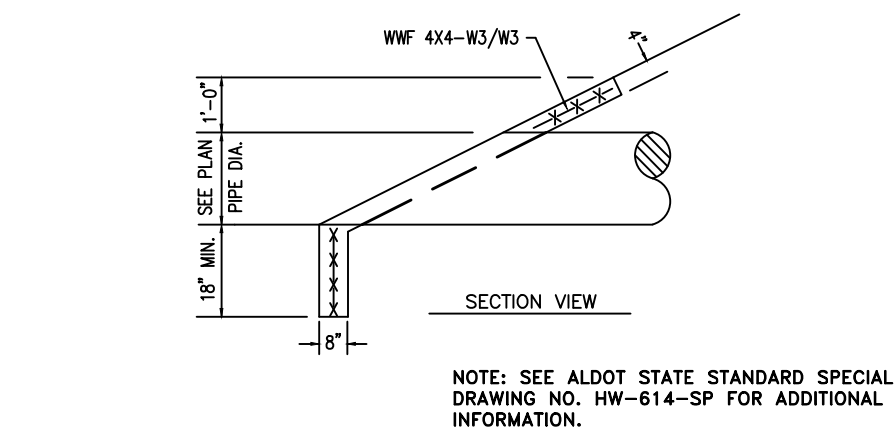
REVISÉ DATE:

SHEET NO. : C-5.0

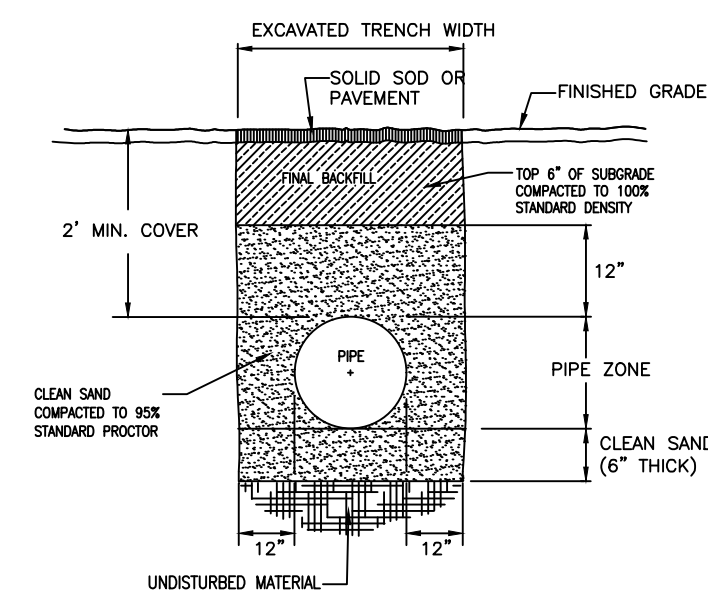
**McKee and Associates**  
ARCHITECTS, INC.

6631 SOUTH HULL STREET MONTGOMERY . ALABAMA 36104 (334) 834-9933

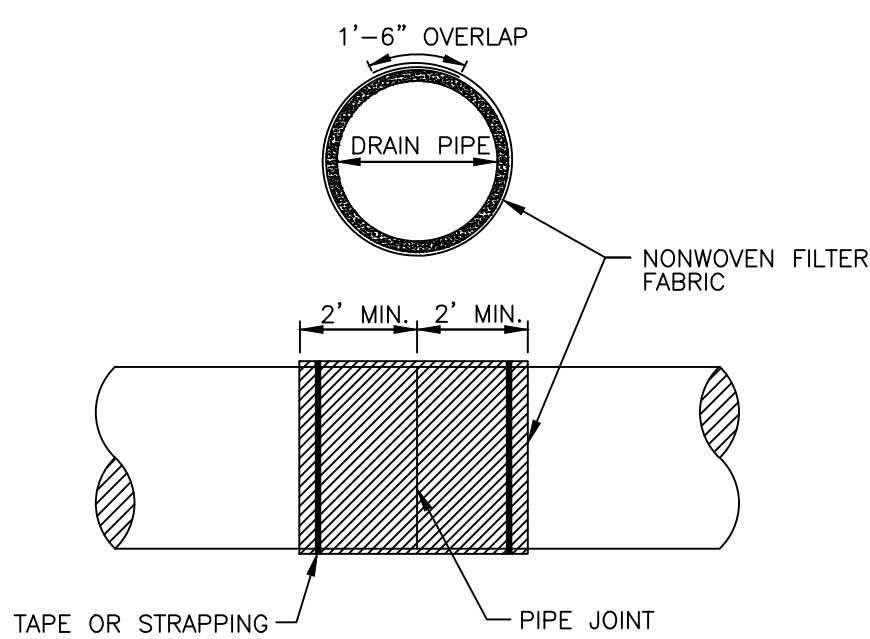




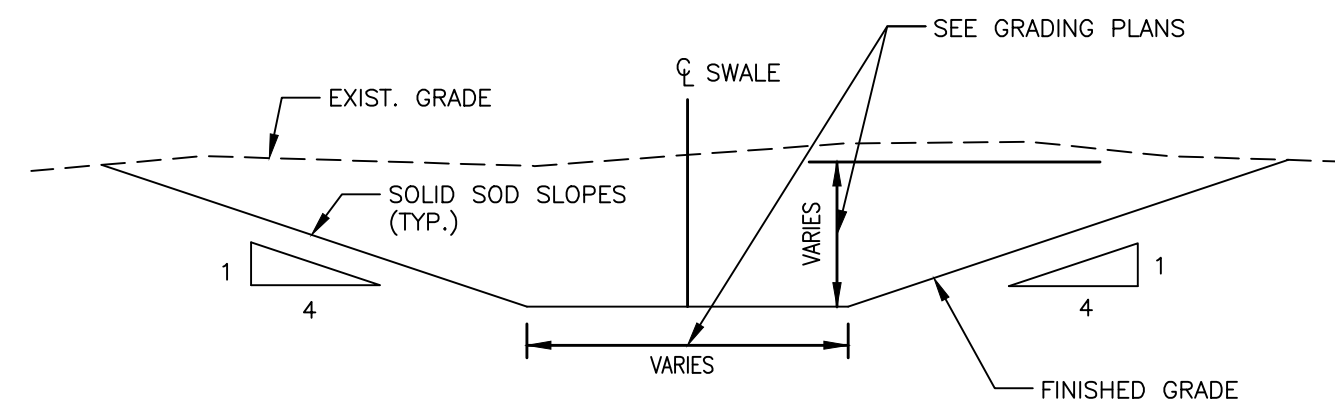
**4:1 CONCRETE SLOPED HEADWALL DETAIL**  
N.T.S.



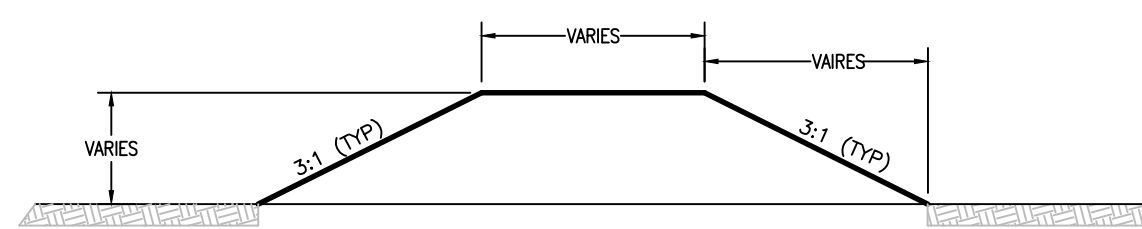
**PIPE TRENCH BACKFILL DETAIL**  
N.T.S.



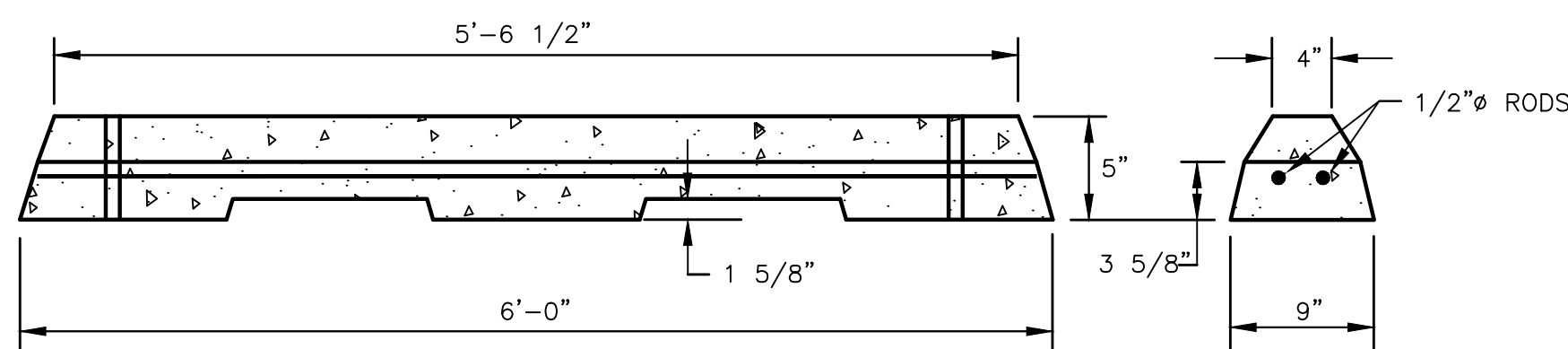
**PIPE JOINT WRAP**  
N.T.S.



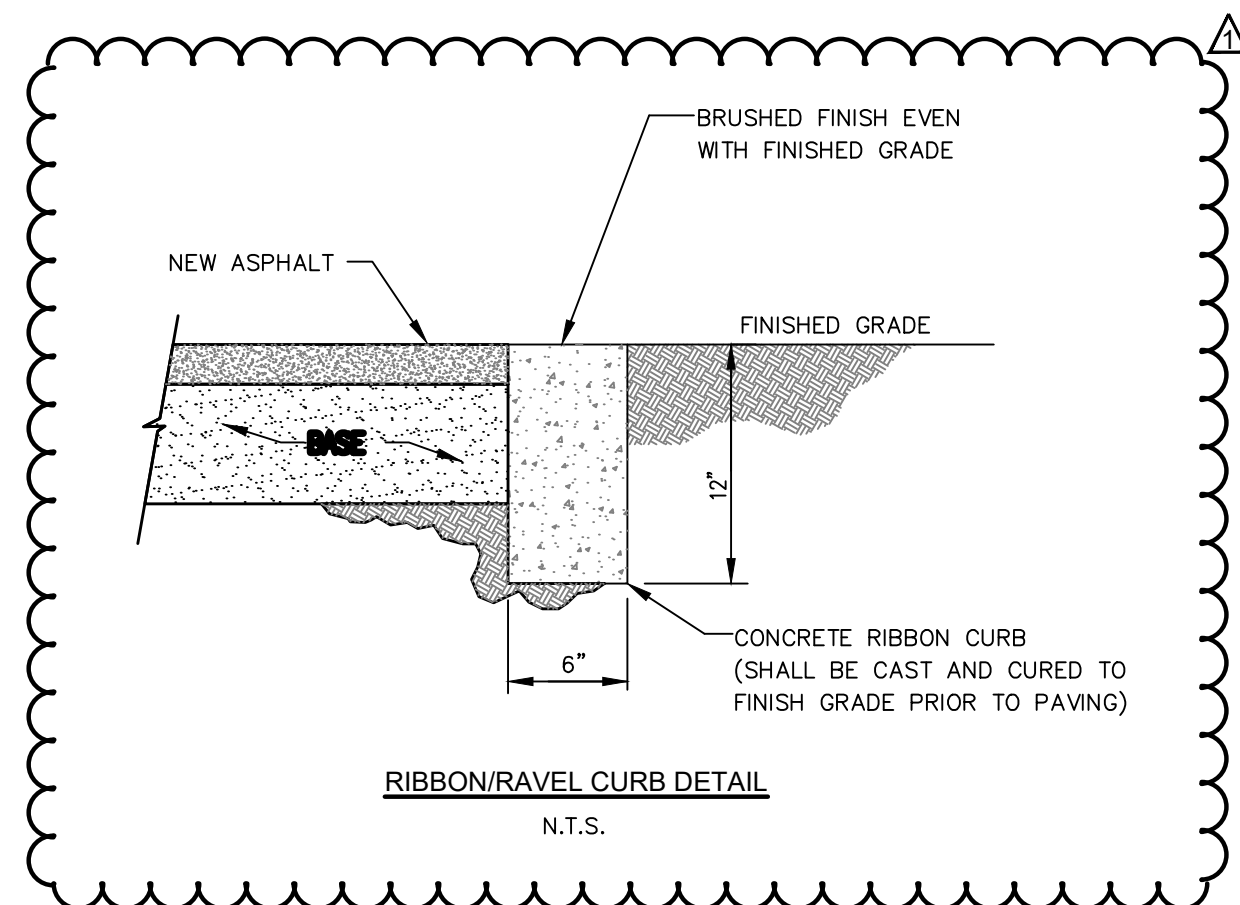
**DRAINAGE SWALE DETAIL**  
N.T.S.



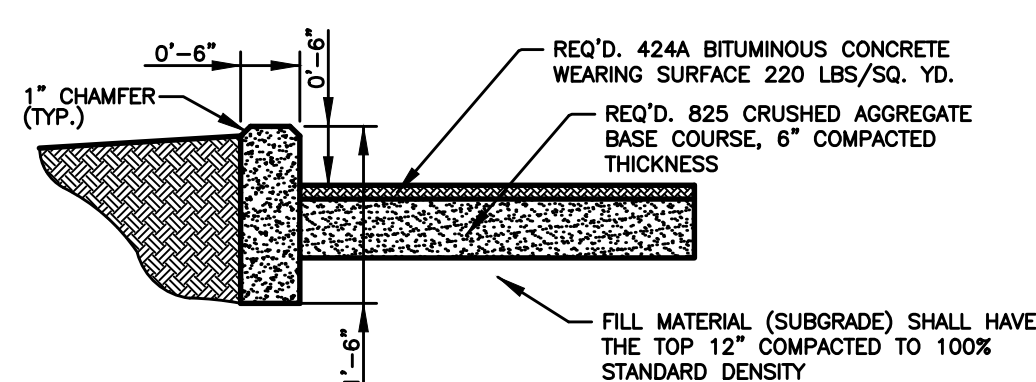
**BERM DETAIL**  
N.T.S.



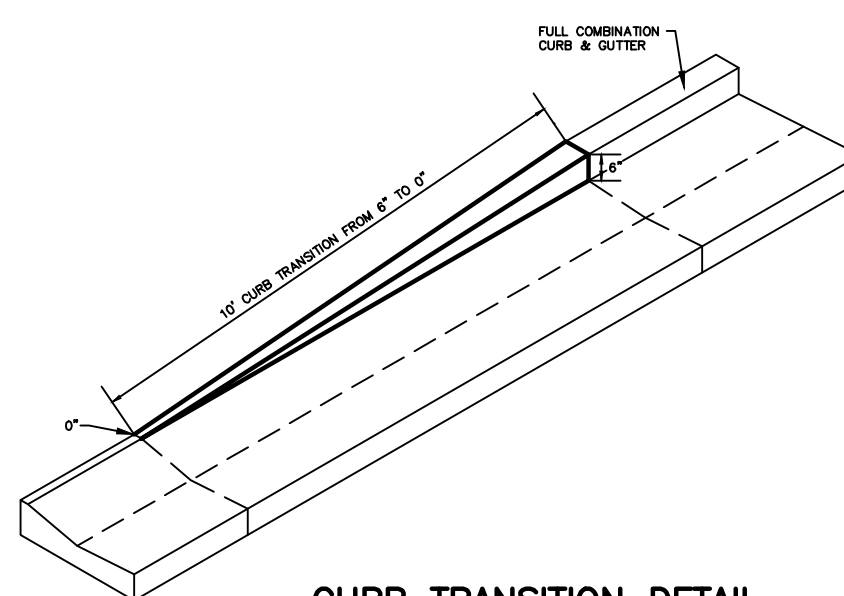
**PRECAST CONCRETE WHEEL STOPS**  
N.T.S.  
APPROX. WEIGHT - 33 LBS/FT



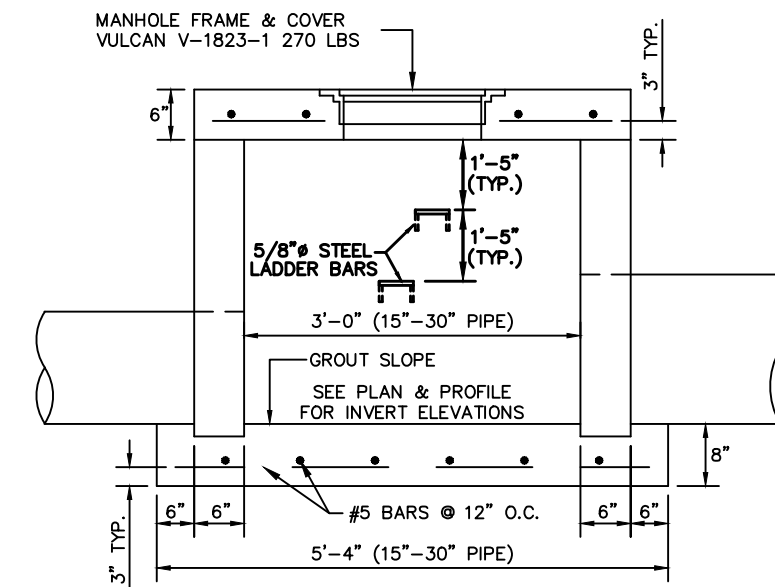
**RIBBON/RAVEL CURB DETAIL**  
N.T.S.



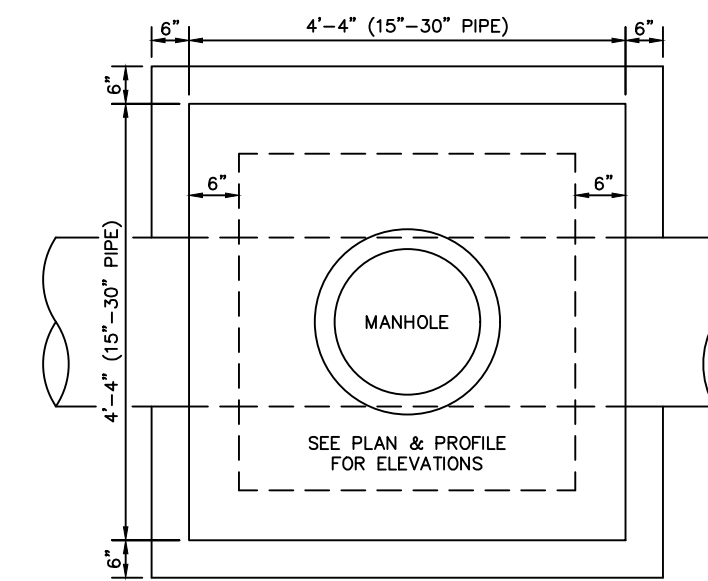
**6" VERT CURB**  
N.T.S.



**CURB TRANSITION DETAIL**  
N.T.S.

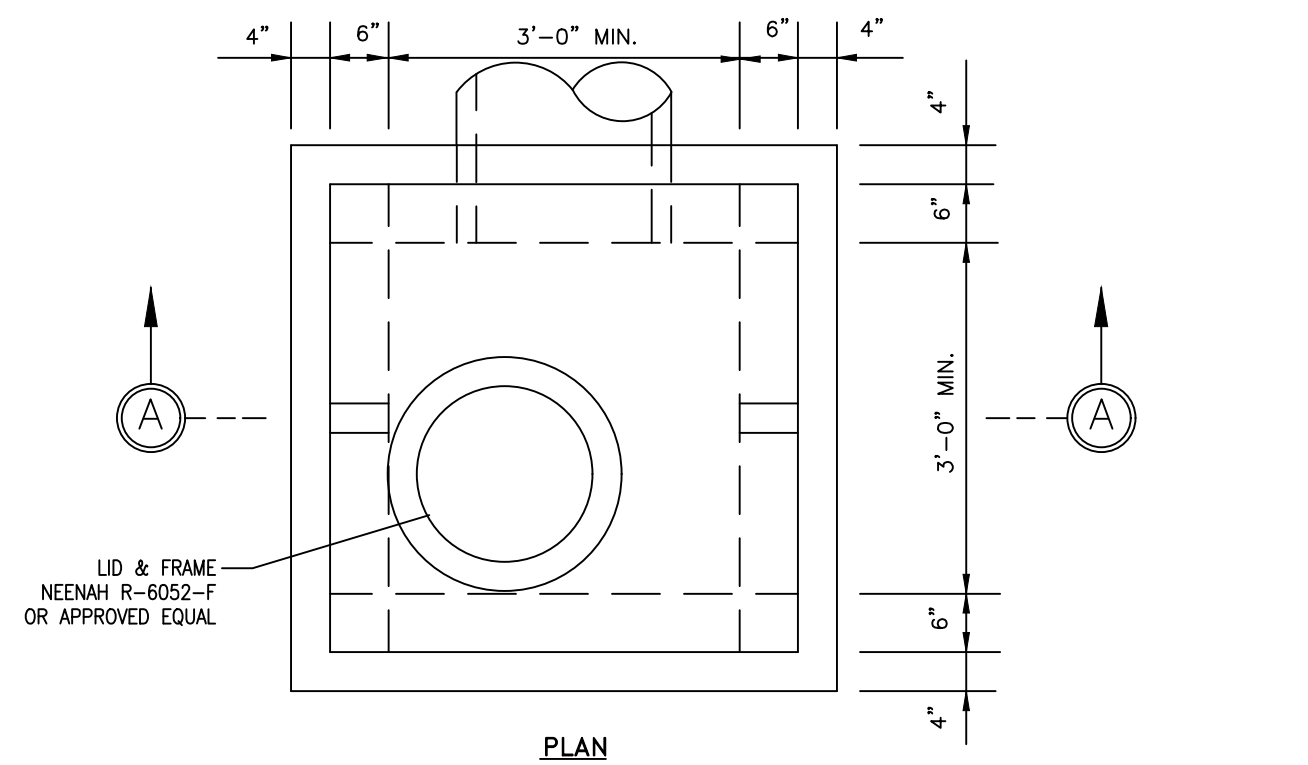


**TYPICAL SECTION**

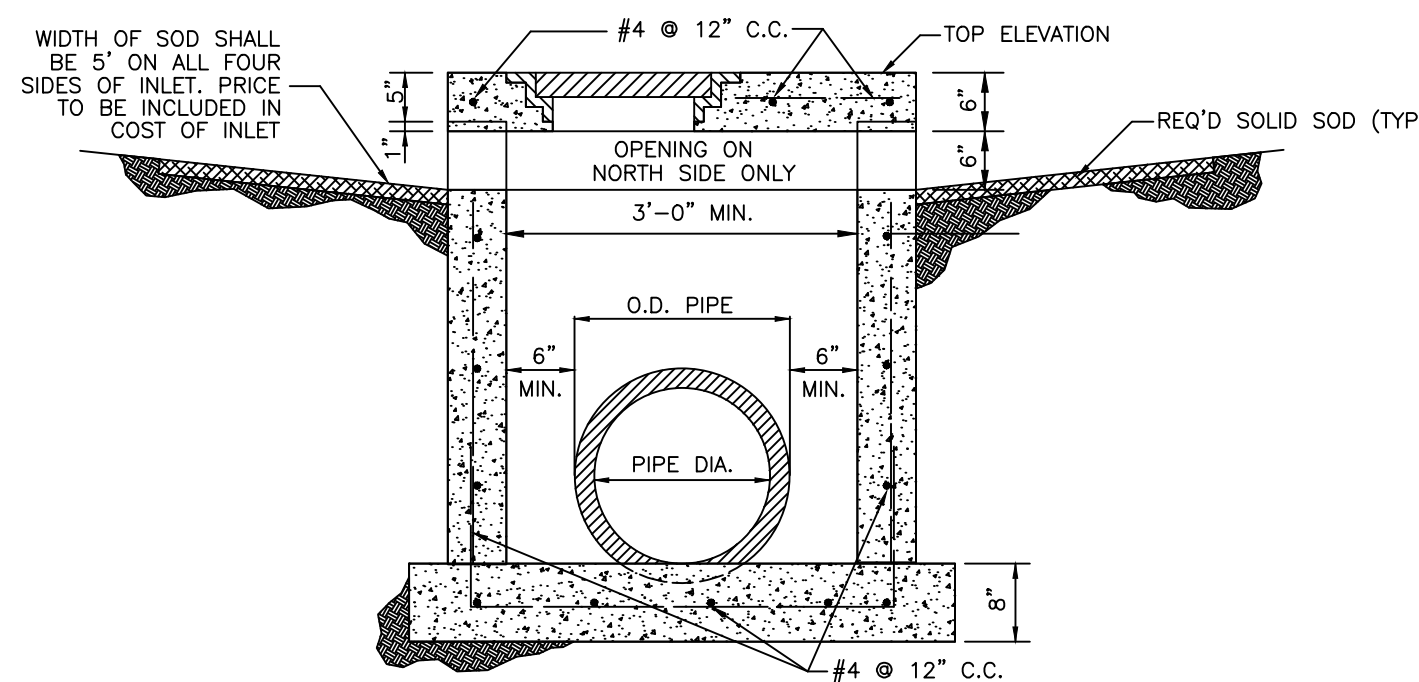


**PLAN VIEW**

**JUNCTION BOX DETAIL**  
N.T.S.  
NOTE: STEPS REQUIRED FOR BOX HEIGHTS 4'-0" AND GREATER.

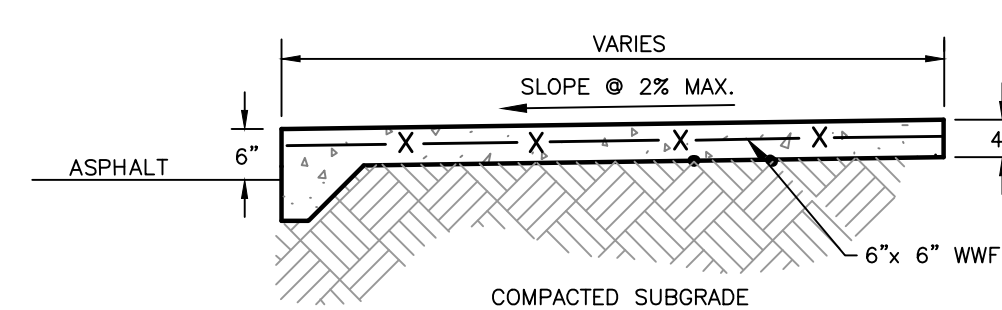


**PLAN**

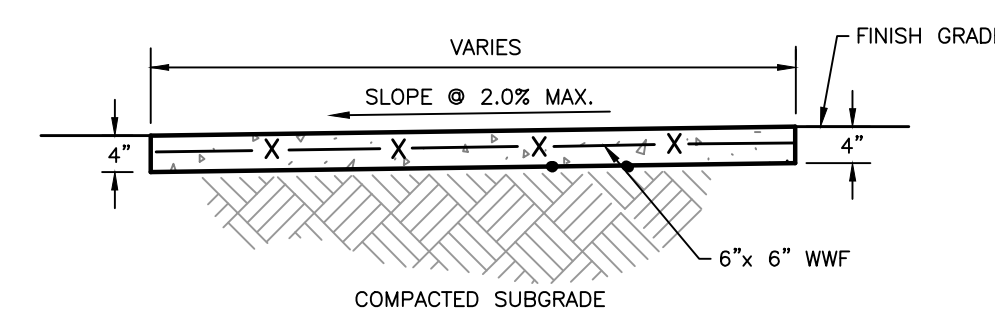


**SECTION A-A**

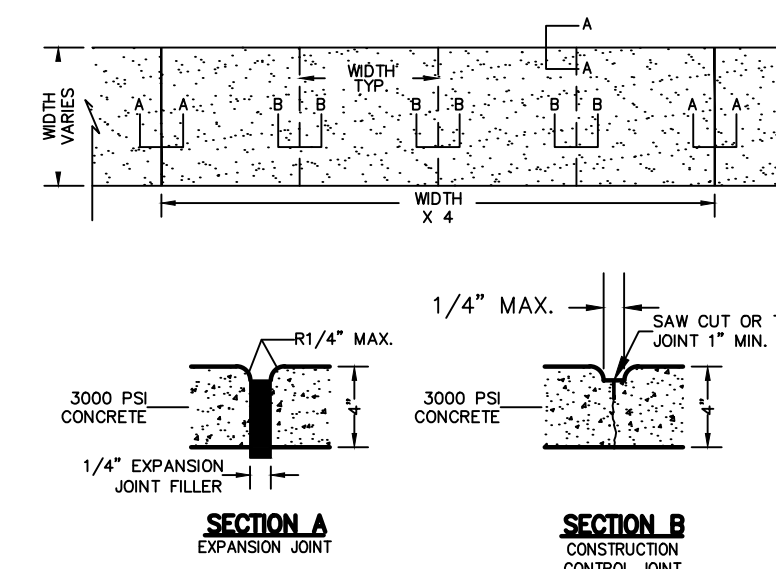
**WEIR INLET DETAIL**  
N.T.S.



**RAISED CONCRETE SIDEWALK**  
N.T.S.



**FLUSH CONCRETE SIDEWALK**  
N.T.S.



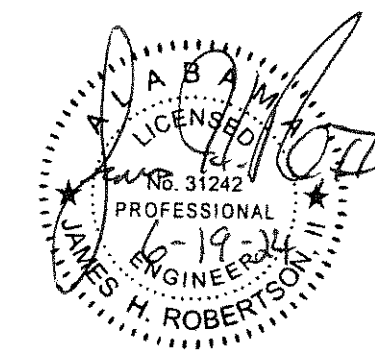
**CONCRETE WALK DETAIL**  
N.T.S.

**NOTES:**

1. PROVIDE 6 FEET BETWEEN CONTROL JOINTS AND 24 FEET BETWEEN EXPANSION JOINTS.
2. ALL EXPANSION JOINTS SHALL BE 1/2" THICK, NEOPRENE MATERIAL.
3. EXPANSION MATERIAL TO BE USED AT ALL PC'S, PT'S AND STRUCTURES.



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.



SHEET TITLE : CIVIL CONSTRUCTION DETAILS 02

MCKEE JOB # : 23-199

DRAWN BY : BAT/EI

DATE : 06-04-24

REVISED DATE : 06-20-24

REVISED DATE :

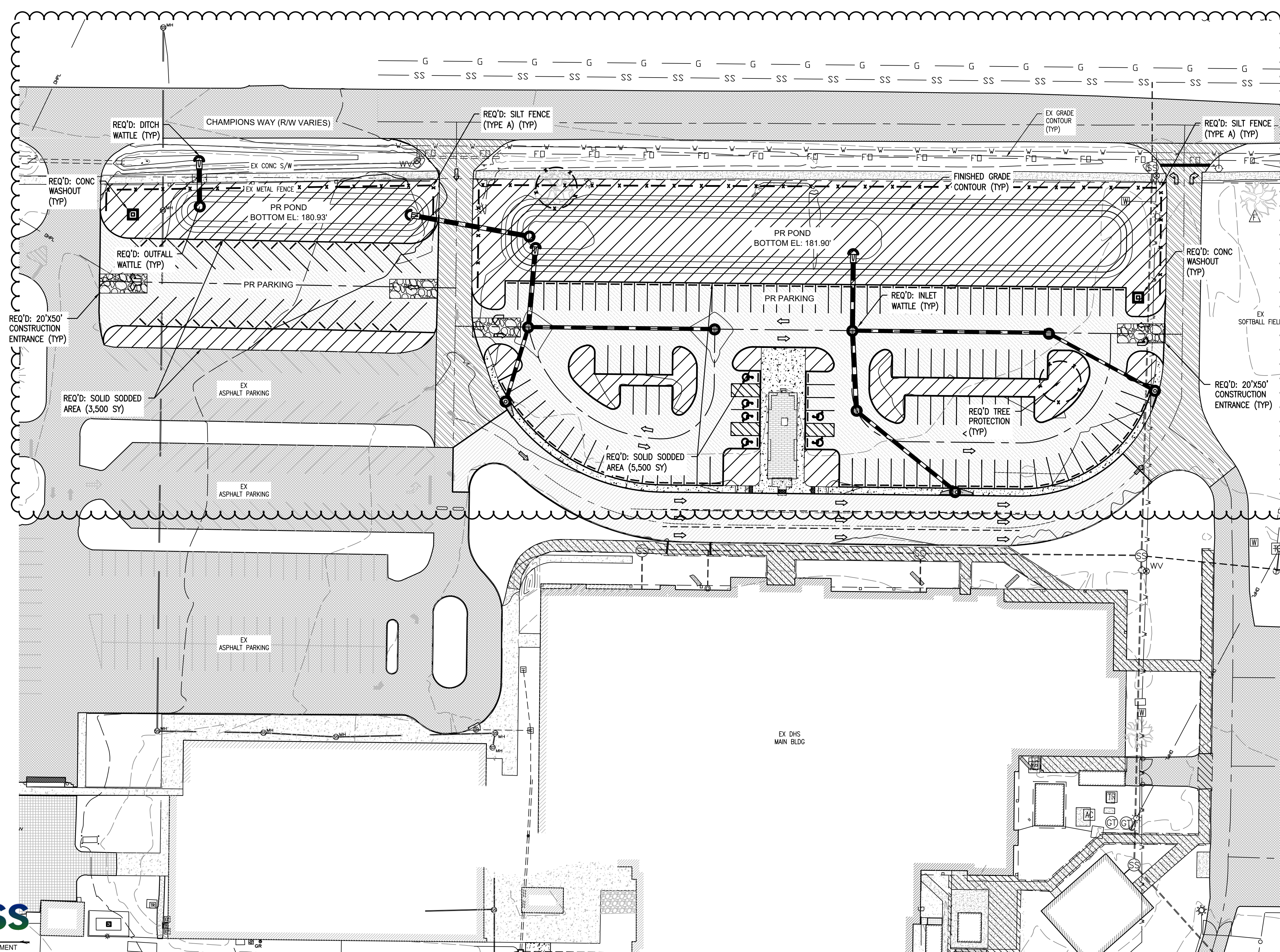
REVISED DATE :

SHEET NO. : C-5.1



- PR INLET/OUTFALL WATTLE  
PR DITCH CHECK WATTLE  
PR CONC WASHOUT  
PR TREE PROTECTION  
PR SLIT FENCE  
PR CONSTRUCTION ENTRANCE  
PR SOLID SOD AREA

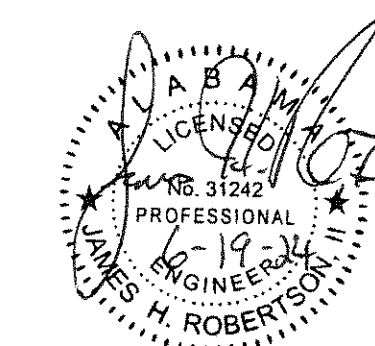
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT FOR CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1 AND 2, LATEST EDITION.
2. THE MEASURES SET FORTH IN THE EROSION CONTROL PLAN ARE INTENDED AS THE MINIMUM STANDARDS, ANY EROSION CONTROL MEASURE BEYOND THAT SPECIFIED IN THE PLAN, THAT IS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW, SHALL BE IMPLEMENTED.
3. IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY LOCAL AND STATE COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.
4. THE CONTRACTOR SHALL INSPECT INSTALLED BMPs AT LEAST ONCE EVERY SEVEN (7) DAYS AND REPAIR OR REPLACE MY DAMAGED OR INEFFECTIVE DEVICES.
5. THE CONTRACTOR SHALL INSPECT INSTALLED BMPs WITHIN 24 HOURS AFTER PRECIPITATION EVENTS OF 0.50 INCHES OR GREATER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
6. DISTURBED AREAS SHALL BE GRADED, SODDED, OR VEGETATED (SEEDED AND MULCHED) WITHIN 13 DAYS OF ANY CONSTRUCTION ACTIVITY FOR AN EFFECTIVE BMP.
7. ALL AREAS IDENTIFIED TO HAVE SOLID SODDING, SHALL BE VEGETATED WITH PERMANENT SEEDING (SEASONAL MIX) IN ACCORDANCE WITH SECTION 860, TABLE FOR ZONE 3 IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAY CONSTRUCTION (CURRENT EDITION).
8. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
9. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
  - A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL, DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
  - B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
10. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
12. ALL SLOPES SHALL BE STABILIZED AND VEGETATED AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKET (ECB) WHERE GRASSING SLOPES ARE INTERMITTENT.
13. ALL CONSTRUCTION WASTE AND DEBRIS, SILT FENCES, HAY BALES, AND INLET PROTECTION AND OTHER TEMPORARY BMPs SHALL BE REMOVED FROM THE SITE UPON CONSTRUCTION COMPLETION.
14. INACTIVE PROJECTS (MORE THAN 7 DAYS) SHALL BE MULCHED IF INACTIVE FOR LESS THAN 60 DAYS. IF INACTIVE FOR MORE THAN 60 DAYS, DISTURBED AREAS SHALL BE SEEDED & MULCHED



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY BOE

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

ARCHITECTS, INC.  
331 SOUTH HILL STREET MONTGOMERY ALABAMA 36104 (334) 834-9933



SHEET TITLE : EROSION CONTROL  
PLAN 01

MCKEE JOB #: 23-199

DRAWN BY : BAT/EI

DATE: 06-04-24

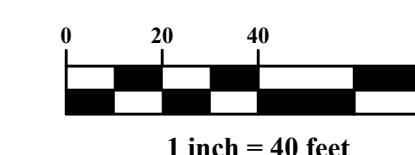
REVISÉD DATE: 06-19-24 1

REVISÉ DATE:

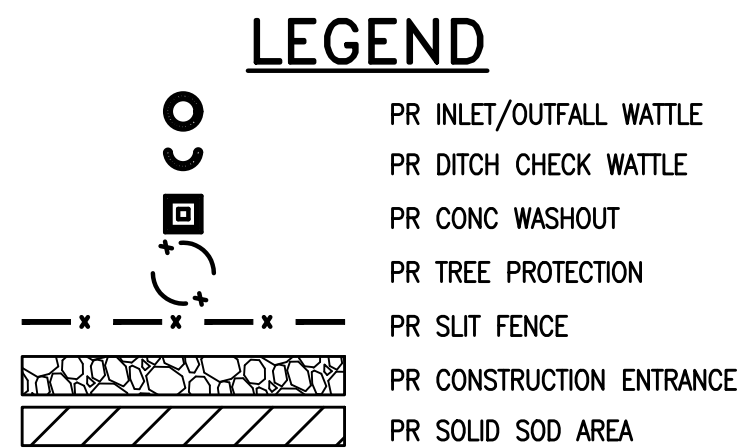
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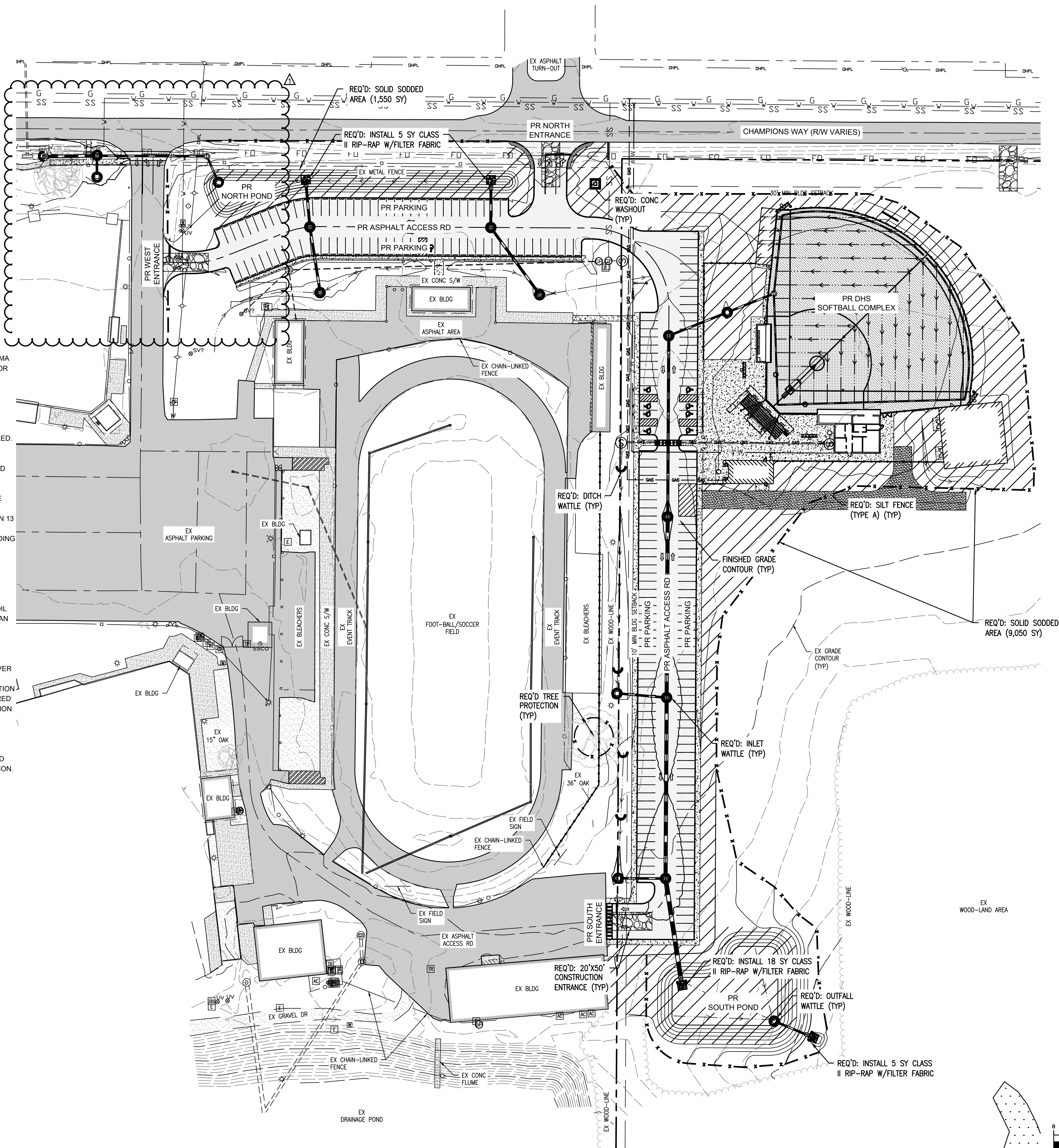
### GRAPHIC SCALE





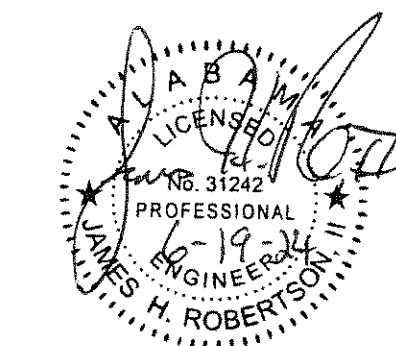


- SOIL EROSION & SEDIMENT CONTROL NOTES:**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT FOR CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1 AND 2, LATEST EDITION.
  - THE MEASURES SET FORTH IN THE EROSION CONTROL PLAN ARE INTENDED AS THE MINIMUM STANDARDS. ANY EROSION CONTROL MEASURE BEYOND THAT SPECIFIED IN THE PLAN, THAT IS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW, SHALL BE IMPLEMENTED.
  - IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY LOCAL AND STATE COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.
  - THE CONTRACTOR SHALL INSPECT INSTALLED BMPS AT LEAST ONCE EVERY SEVEN (7) DAYS AND REPAIR OR REPLACE MY DAMAGED OR INEFFECTIVE DEVICES.
  - THE CONTRACTOR SHALL INSPECT INSTALLED BMPS WITHIN 24 HOURS AFTER PRECIPITATION EVENTS OF 0.50 INCHES OR GREATER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
  - DISTURBED AREAS SHALL BE GRADED, SODDED, OR VEGETATED (SEEDED AND MULCHED) WITHIN 13 DAYS OF ANY CONSTRUCTION ACTIVITY FOR AN EFFECTIVE BMP.
  - ALL AREAS IDENTIFIED TO HAVE SOLID SODDING. SHALL BE VEGETATED WITH PERMANENT SEEDING (SEASONAL MIX) IN ACCORDANCE WITH SECTION 860, TABLE FOR ZONE 3 IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAY CONSTRUCTION (CURRENT EDITION).
  - SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
  - WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
    - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
    - THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
  - A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
  - CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
  - ALL SLOPES SHALL BE STABILIZED AND VEGETATED AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKET (ECB) WHERE GRASSING SLOPES ARE INTERMITTENT.
  - ALL CONSTRUCTION WASTE AND DEBRIS, SILT FENCES, HAY BALES, AND INLET PROTECTION AND OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE UPON CONSTRUCTION COMPLETION.
  - INACTIVE PROJECTS (MORE THAN 7 DAYS) SHALL BE MULCHED IF INACTIVE FOR LESS THAN 60 DAYS. IF INACTIVE FOR MORE THAN 60 DAYS, DISTURBED AREAS SHALL BE SEEDED & MULCHED



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**McKEE and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : EROSION CONTROL PLAN 02

McKEE JOB # : 23-199

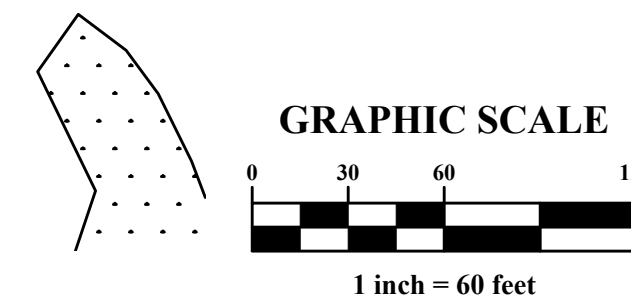
DRAWN BY : BAT/EI

DATE : 06-04-24

REVISED DATE : 06-19-24

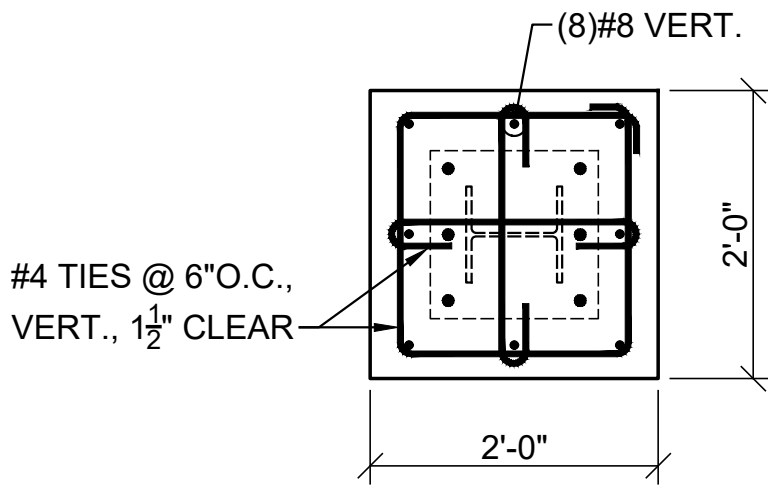
REVISED DATE :

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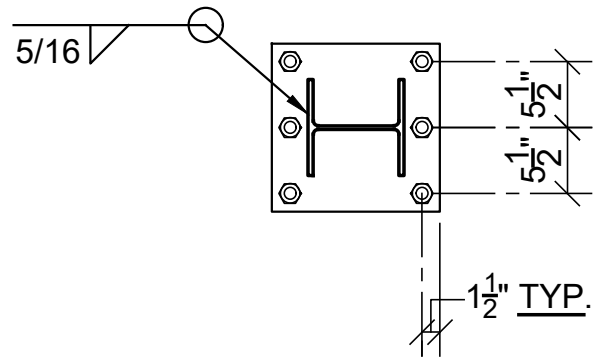


SHEET NO. : C-6.1

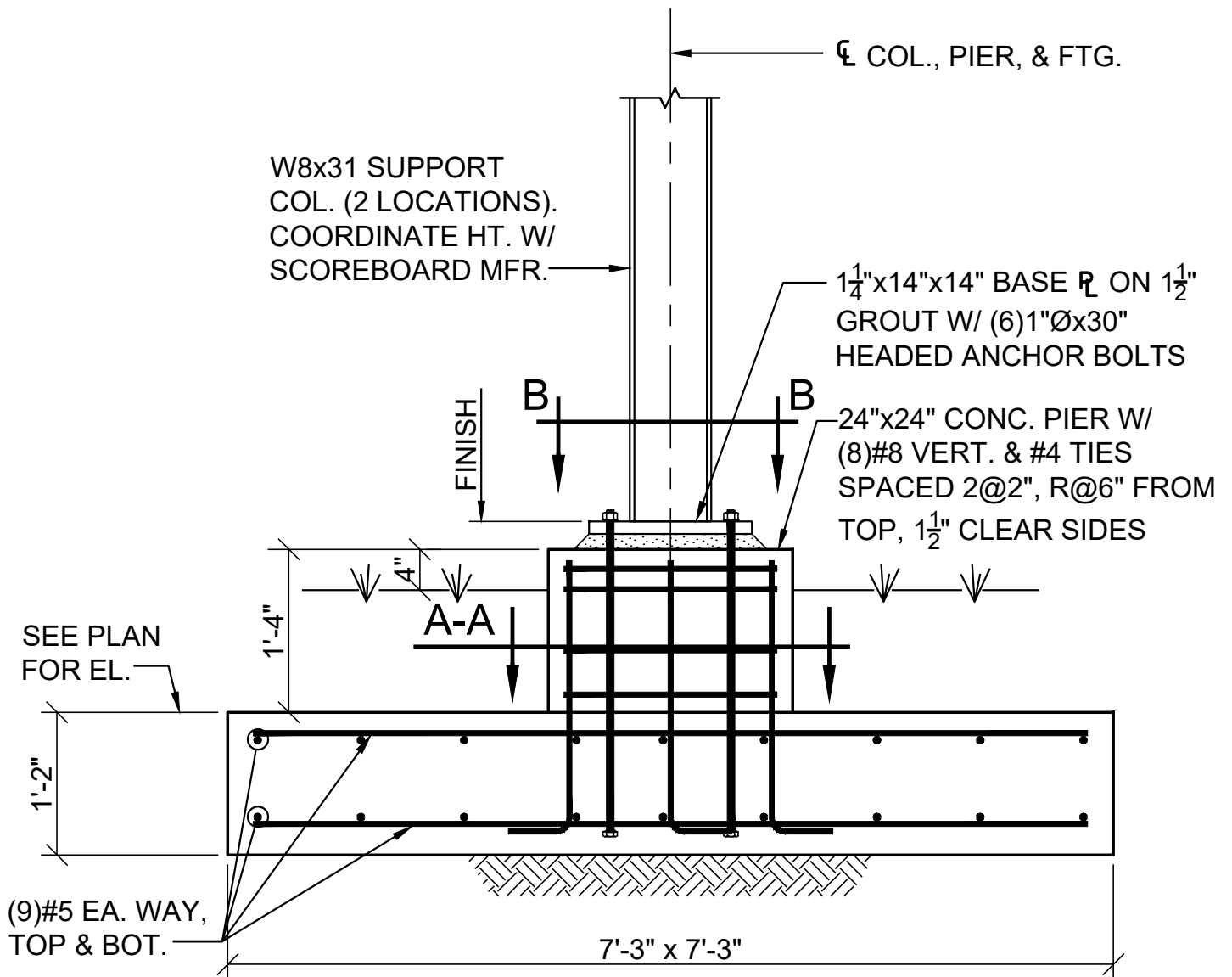




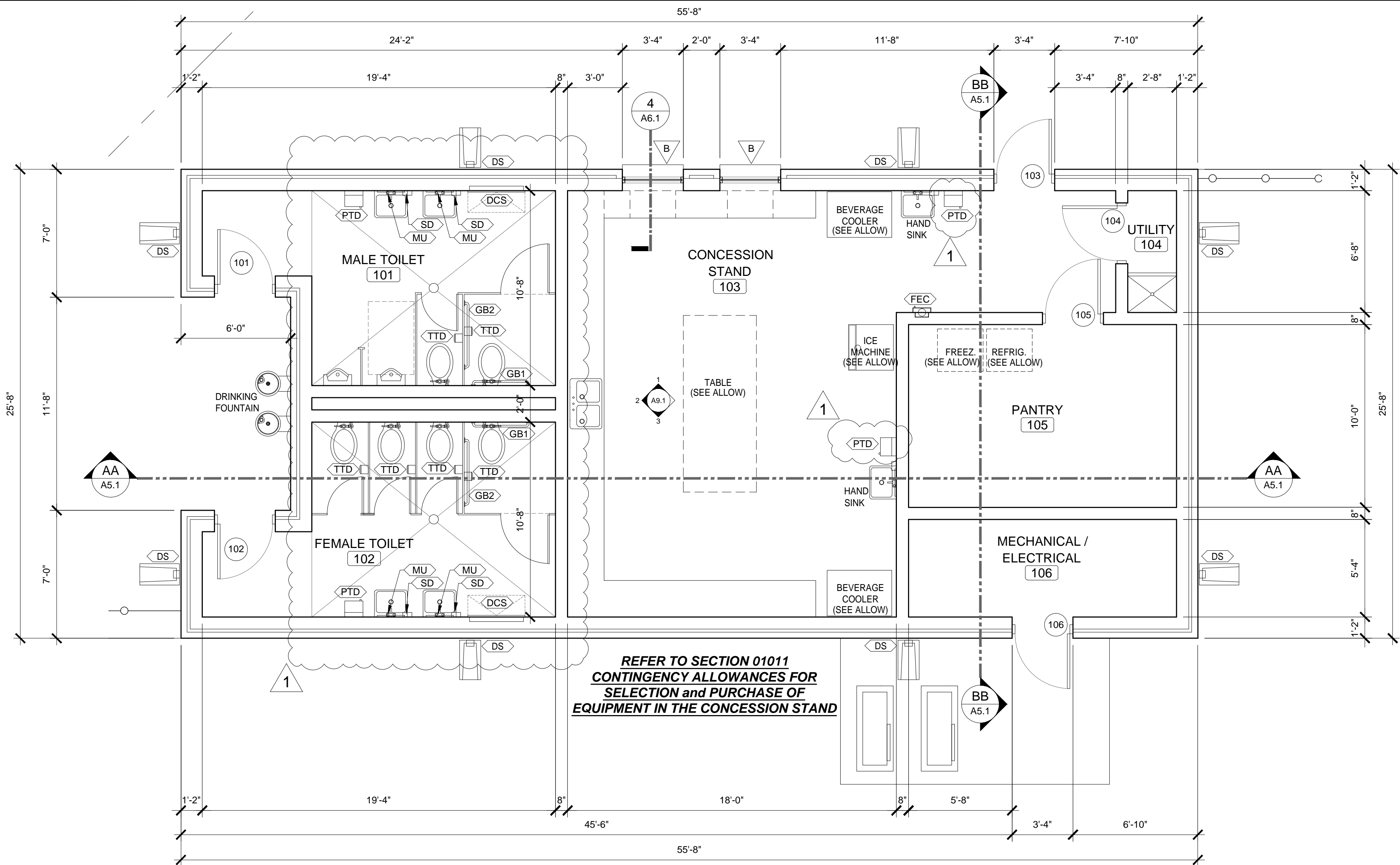
VIEW A-A



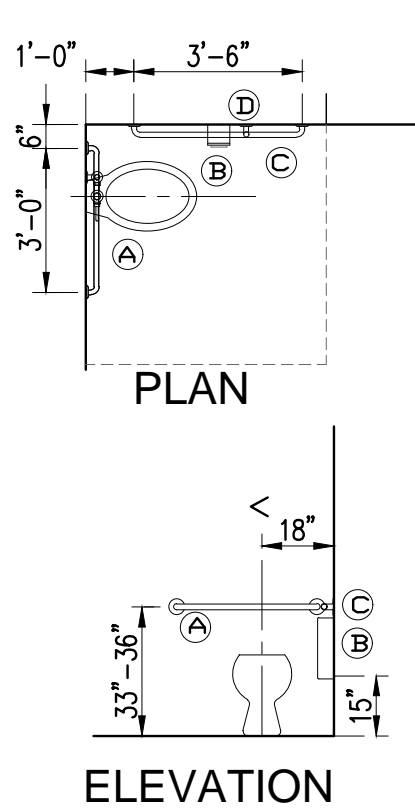
VIEW B-B



TYPICAL SCOREBOARD SUPPORT  
COLUMN & FOUNDATION DETAIL

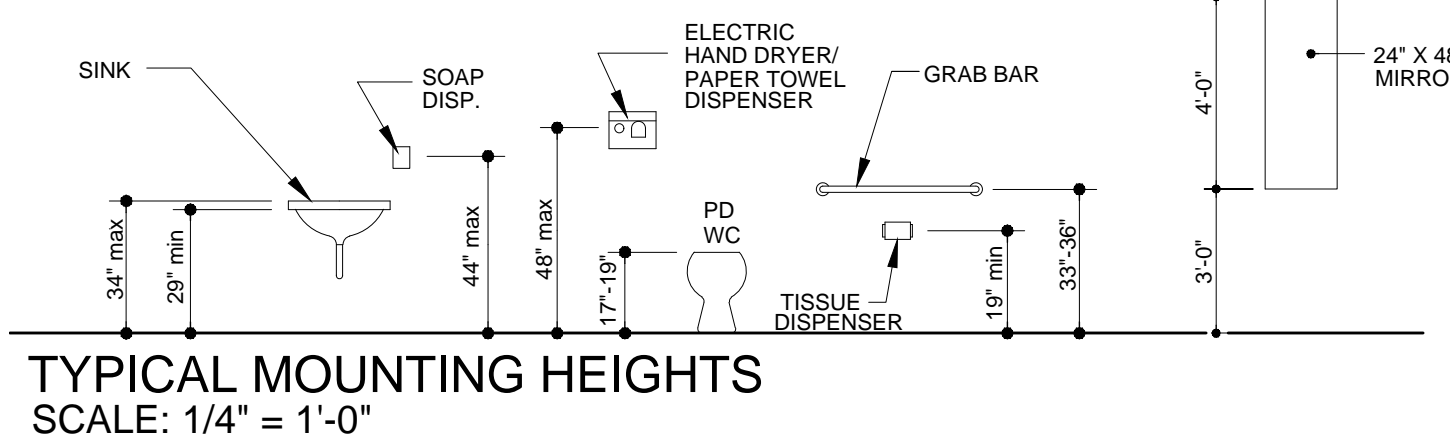


**CONCESSION / TOILET BUILDING**  
SCALE: 1/4"=1'-0"

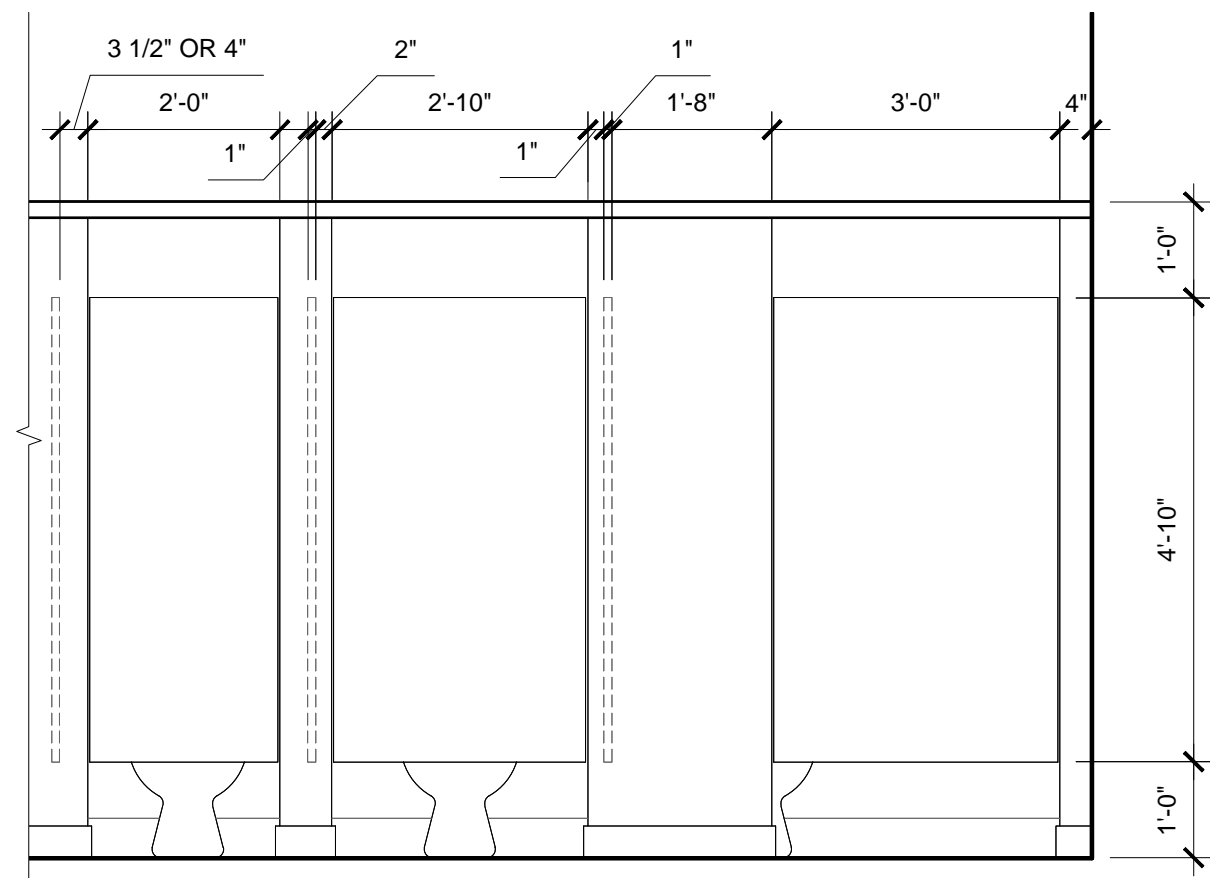


- KEY NOTES**
- (A) HORIZONTAL REAR WALL GRAB BAR SHALL BE 36" LONG MINIMUM, LOCATED 6" MAXIMUM FROM SIDE WALL.
  - (B) TOILET PAPER DISPENSER SHALL BE INSTALLED BELOW THE HORIZONTAL GRAB BAR 36" MAXIMUM FROM WALL TO OUTERMOST EDGE. DISPENSER OUTLET TO BE LOCATED 19" MINIMUM ABOVE FLOOR WITH 2" MINIMUM CLEAR BETWEEN TOP OF DISPENSER AND HORIZONTAL GRAB BAR.
  - (C) A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
  - (D) A VERTICAL SIDE WALL GRAB BAR 18" LONG MINIMUM, LOCATED FROM RE/ FROM REAR WALL MINIMUM 39" TO 41" M LOCATE BOTTOM OF BAR 39" MINIMUM A FROM FINISH FLOOR

**PHYSICALLY DISABLED ACCESSIBLE WATER CLOSET**  
SCALE: 1/4" = 1'-0"



**TYPICAL MOUNTING HEIGHTS**  
SCALE: 1/4" = 1'-0"

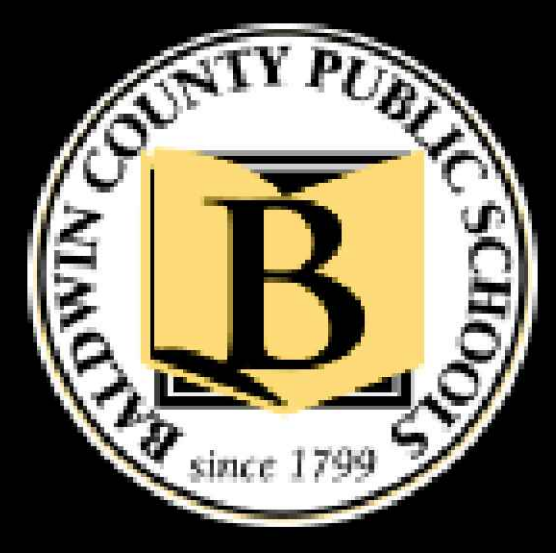


**TOILET PARTITION ELEVATIONS**  
SCALE: 1/2"=1'-0"

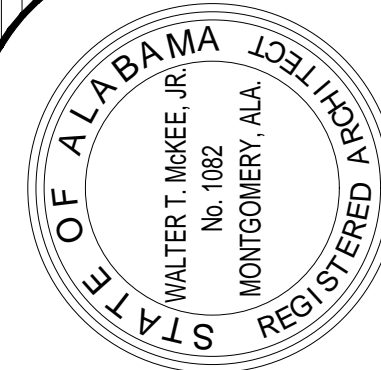
FLOOR PLAN SYMBOLS	
SYMBOL	DESCRIPTION
	SCHEDULED DOOR AND FRAME
	SCHEDULED WINDOW UNIT
	SCHEDULED ROOM NAME AND NUMBER
	SECTION / DETAIL SYMBOL
	BUILDING SECTION SYMBOL
	INTERIOR ELEVATION SYMBOL
	PARTITION TYPES

FLOOR PLAN KEYS	
KEYNOTE	DESCRIPTION
	METAL DOWNSPOUT
	MASONRY CONTROL JOINT
	FIRE EXTINGUISHER-SURFACE MOUNTED

SPECIALTIES LEGEND	
KEYNOTE	DESCRIPTION
	TOILET TISSUE DISPENSER -FURNISHED BY OWNER-INSTALLED BY THE CONTRACTOR
	PAPER TOWEL DISPENSER -FURNISHED BY OWNER-INSTALLED BY THE CONTRACTOR
	SOAP DISPENSER -FURNISHED BY OWNER-INSTALLED BY THE CONTRACTOR
	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33'-36" AFF
	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33'-36" AFF
	18" X 36" MIRROR UNIT W/ SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF
	DIAPER CHANGING STATION
	FIRE EXTINGUISHER CABINET



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**McKee and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : CONCESSION / TOILET FLOOR PLAN

MCKEE JOB # : 23-199

DRAWN BY : JRB

DATE : JUNE 04, 2024

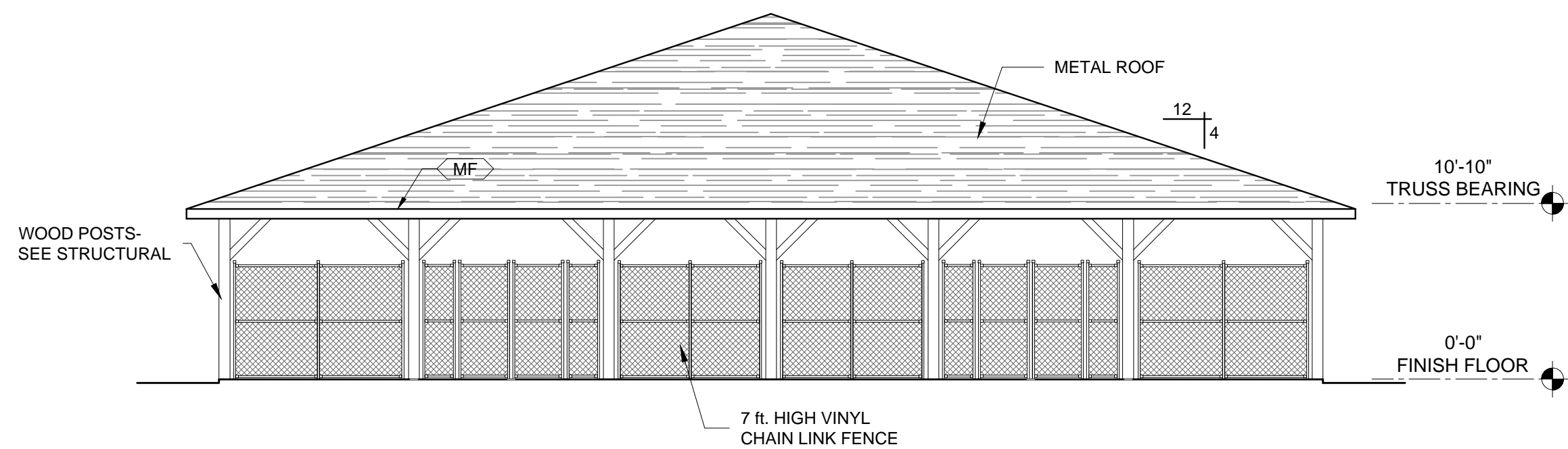
REVISED DATE : 1 07.26.2024

REVISED DATE :

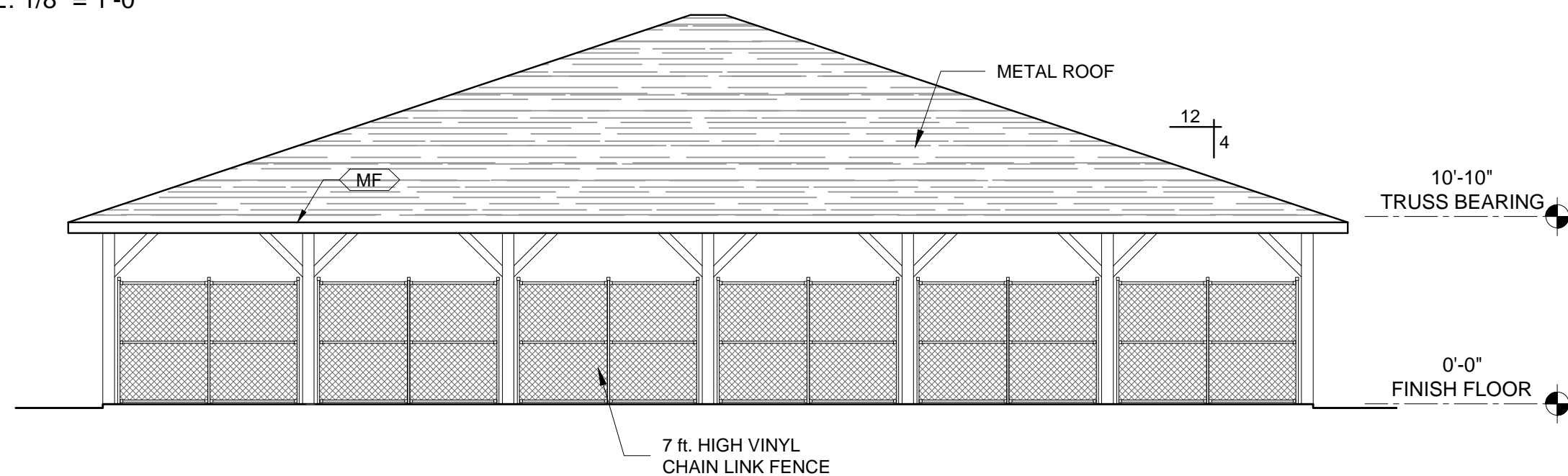
REVISED DATE :

SHEET NO. : **A1.1**





**BATTING SHELTER  
NORTH / SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



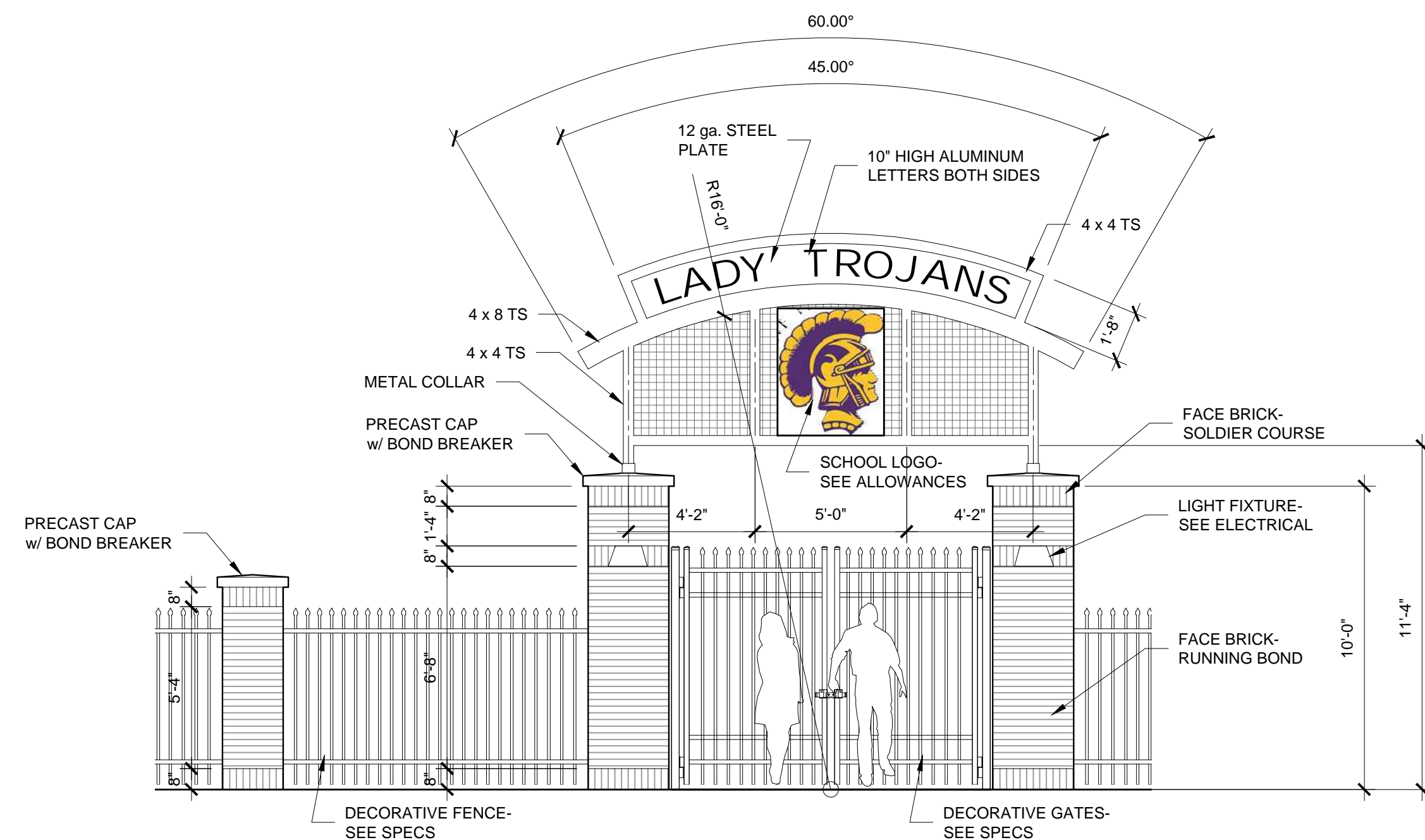
**BATTING SHELTER  
NORTH / SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



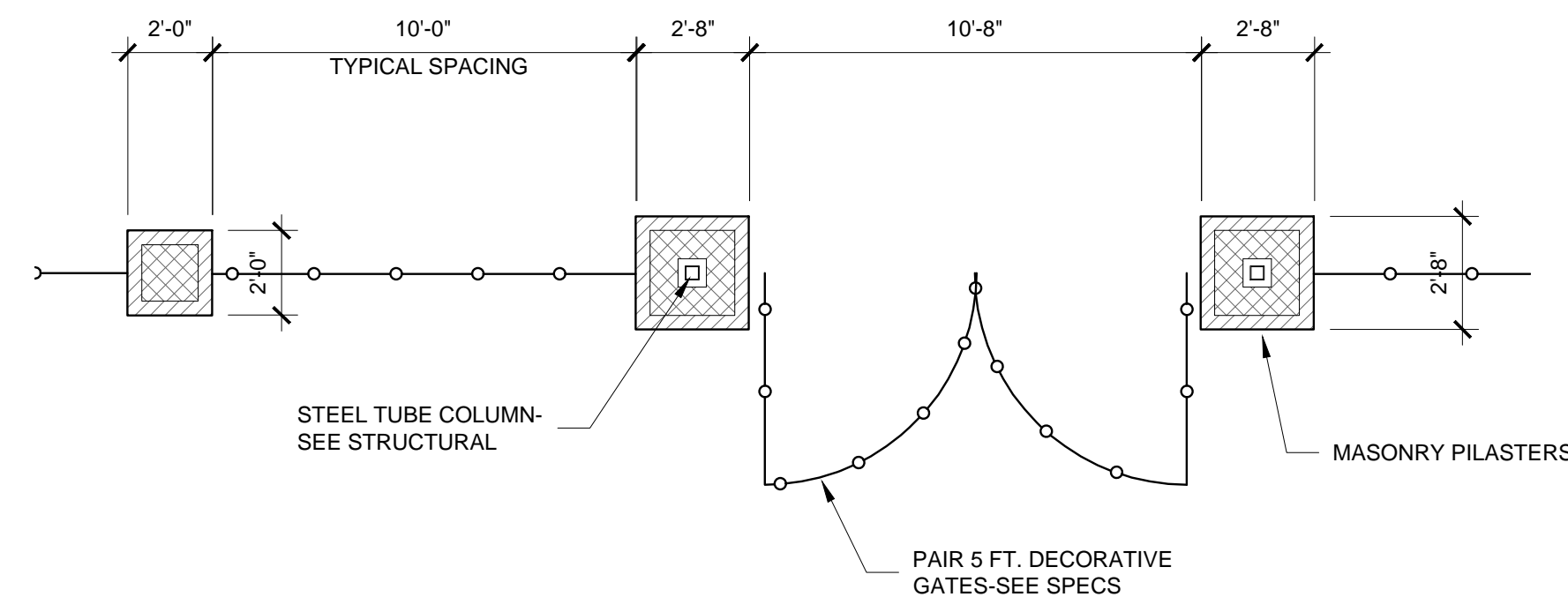
SCOREBOARD -  
SEE SPECIFICATIONS

SEE STRUCTURAL FOR SUPPORT  
COLUMNS AND FOUNDATION

**ELEVATION - SCOREBOARD**  
SCALE: 1/4" = 1'-0"



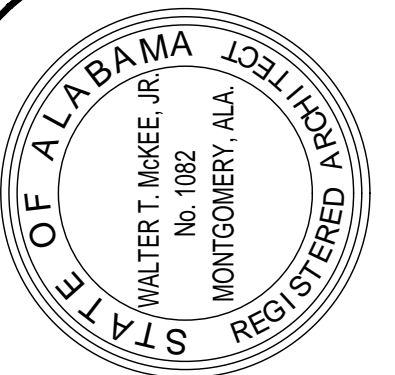
**ELEVATION - ENTRY GATE / MARQUEE**  
SCALE: 1/4" = 1'-0"



**PLAN - ENTRY GATE / MARQUEE**  
SCALE: 1/4" = 1'-0"



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.



**McKEE and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

SHEET TITLE : BATTING SHELTER  
and ENTRY MARQUEE

McKEE JOB # : 23-199

DRAWN BY : JRB

DATE : JUNE 04, 2024

REVISED DATE : 1 07.26.2024

REVISED DATE :

REVISED DATE :

SHEET NO. : **A4.2**





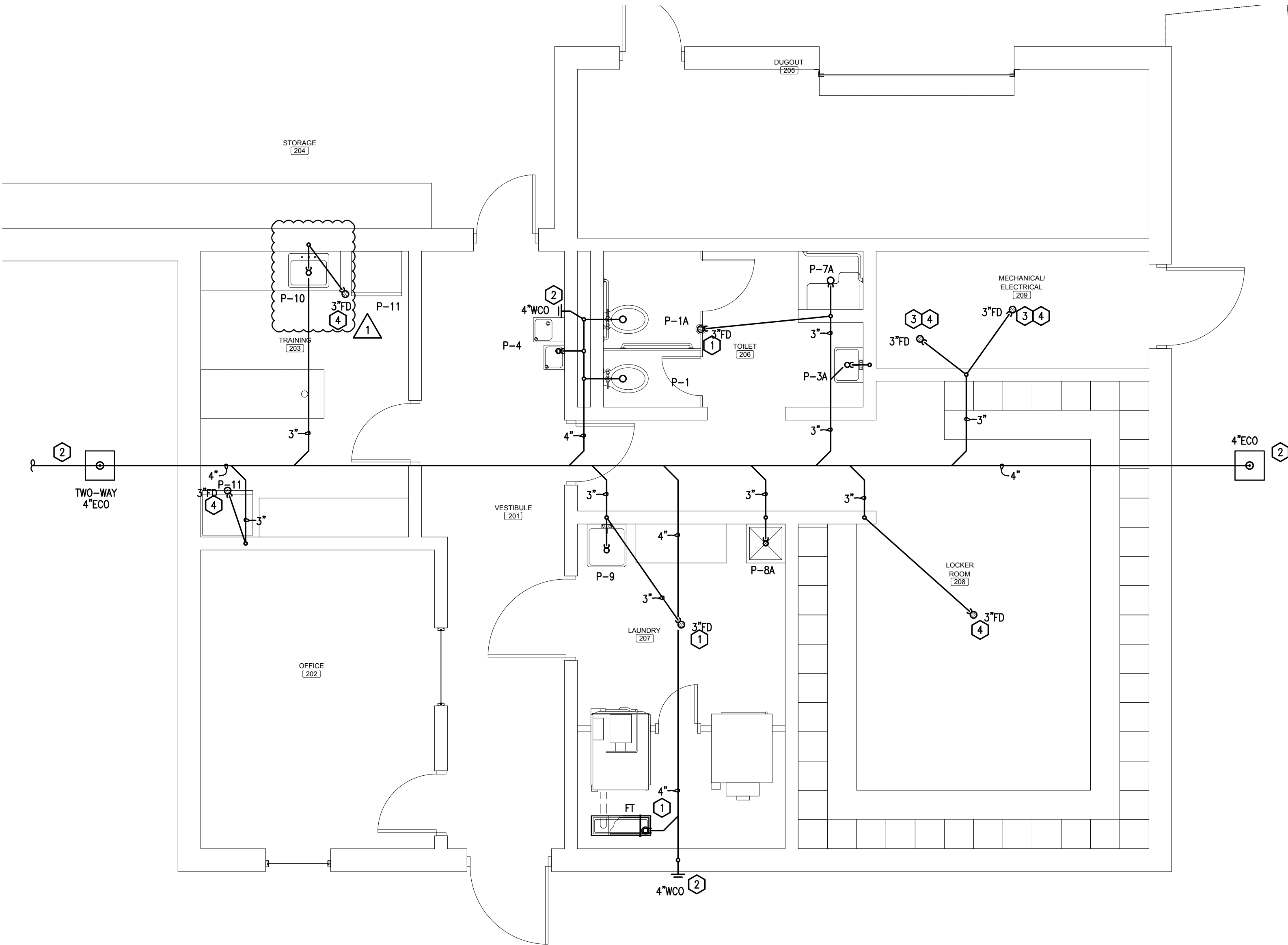


SANITARY WASTE GENERAL NOTES:

- 1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
- 2. UNDERGROUND SANITARY WASTE AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO INSTALLATION OF PLUMBING FIXTURES.
- 3. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
- 4. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
- 5. ALL HORIZONTAL PORTIONS OF THE SANITARY WASTE PIPING SERVING FOR CONDENSATE DISPOSAL SHALL BE INSULATED WITH 1" THICK SECTIONAL FIBERGLASS INSULATION WITH AN "ASJ" JACKET. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN TRAP SHALL ALSO BE INSULATED.
- 6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
- 7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTRS AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTRS PER 2021 IMC.
- 8. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

SANITARY WASTE KEYNOTES:

- 1 EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
- 2 WALL CLEANOUT TO BE COMPLETELY SERVICE ACCESSIBLE ON WALL.
- 3 DRAIN FOR CONDENSATE DISPOSAL FROM HVAC EQUIPMENT. COORDINATE FINAL LOCATION OF DRAIN WITH HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE A SUFFICIENTLY SIZED AIR GAP FITTING AT DRAIN TO ACCOMMODATE HVAC EQUIPMENT AND AUXILIARY PAN CONDENSATE DRAINS.
- 4 PROVIDE "TRAP GUARD" (OR EQUAL) AS TRAP PRIMER ALTERNATE.



SANITARY WASTE PLAN-SOFTBALL FIELD HOUSE  
SCALE: 1/4"=1'-0"

**H.M. YONGE & ASSOCIATES, INC.**  
CONSULTING ENGINEERS / EST. 1988

91 EAST GREGORY STREET  
PENSACOLA, FLORIDA 32502  
PHONE: (850)434-2661

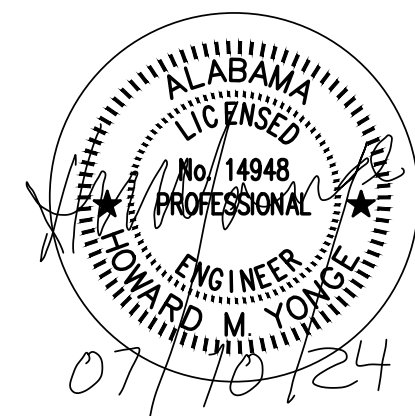
253 ST. ANTHONY STREET  
MOBILE, ALABAMA 36603  
PHONE: (251)690-7446



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

**McKEE and ASSOCIATES**  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : SANITARY WASTE  
PLAN - SOFTBALL  
FIELD HOUSE

MCKEE JOB # : 23-199

DRAWN BY : D. B.

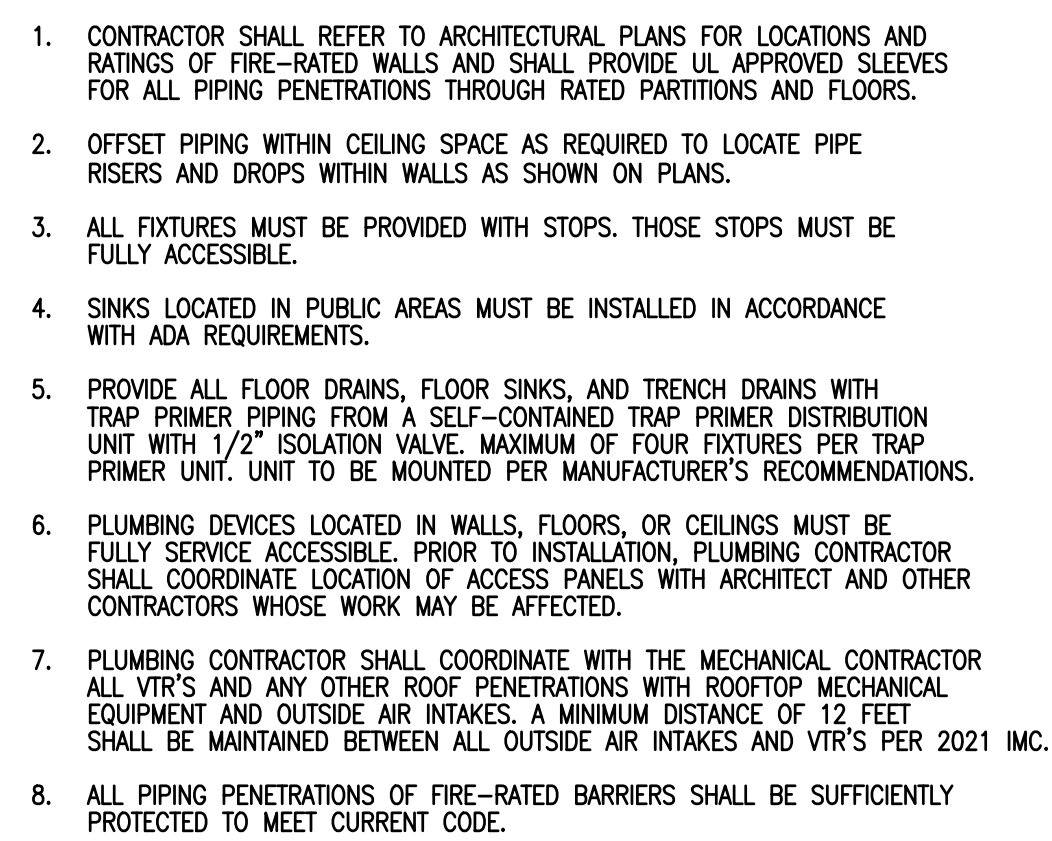
DATE: 06.04.2024

REVISED DATE: 07.10.2024

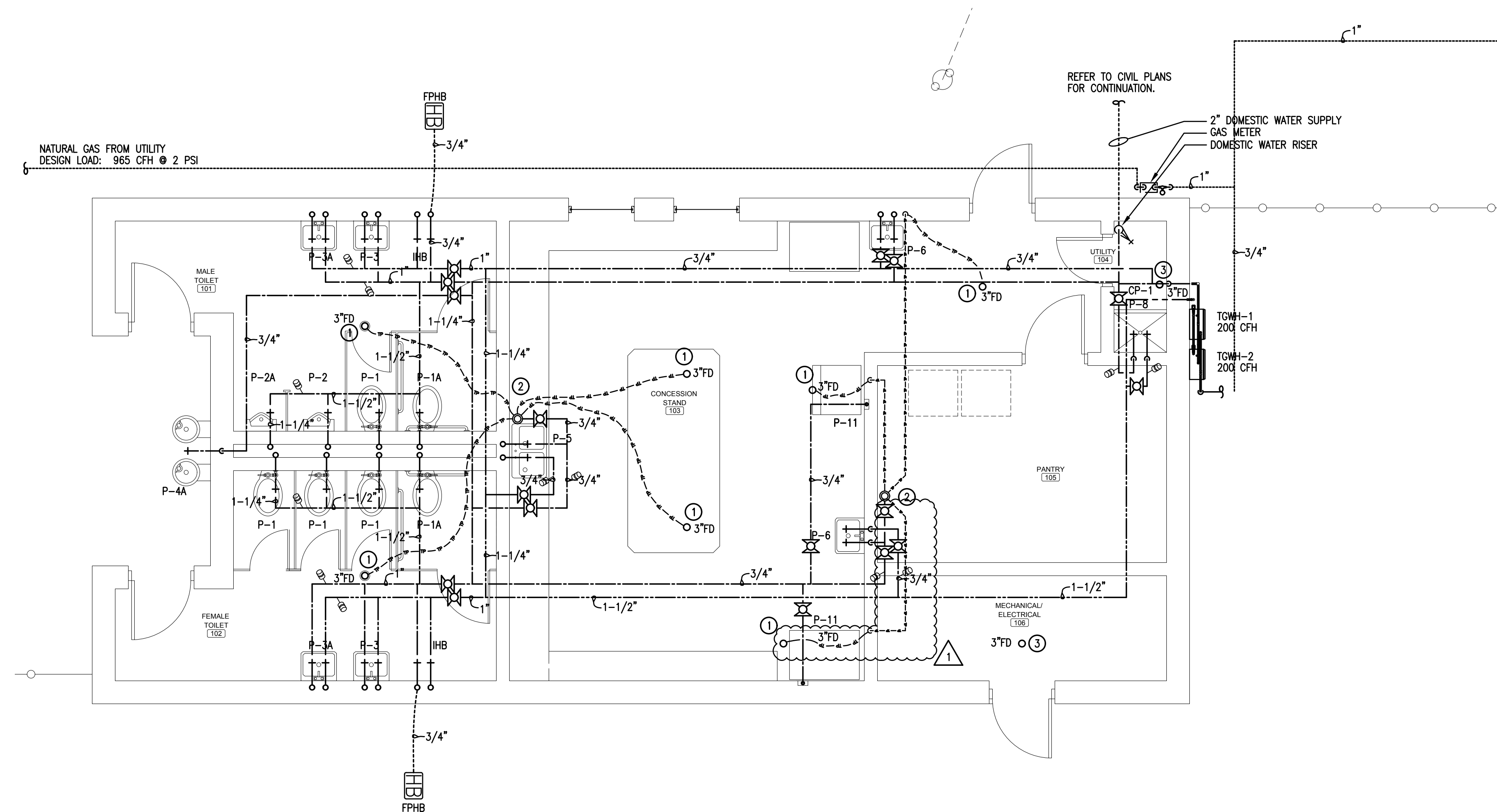
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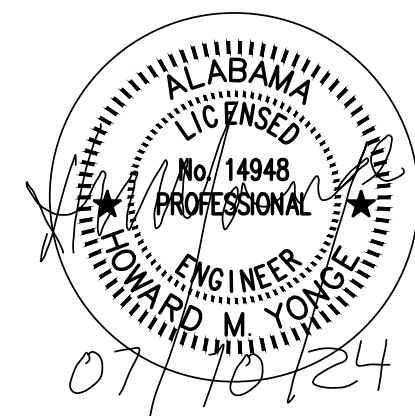
SHEET NO. : **P1.2**



- ① EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
- ② SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT LOCATED ABOVE THE CEILING. PROVIDE WITH 1/2" BRANCH AND ISOLATION VALVE. CONNECT FOUR FIXTURES (MAX.) PER UNIT.
- ③ PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.



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



REVISÉ DATE:

SHEET NO. : **P2.1**



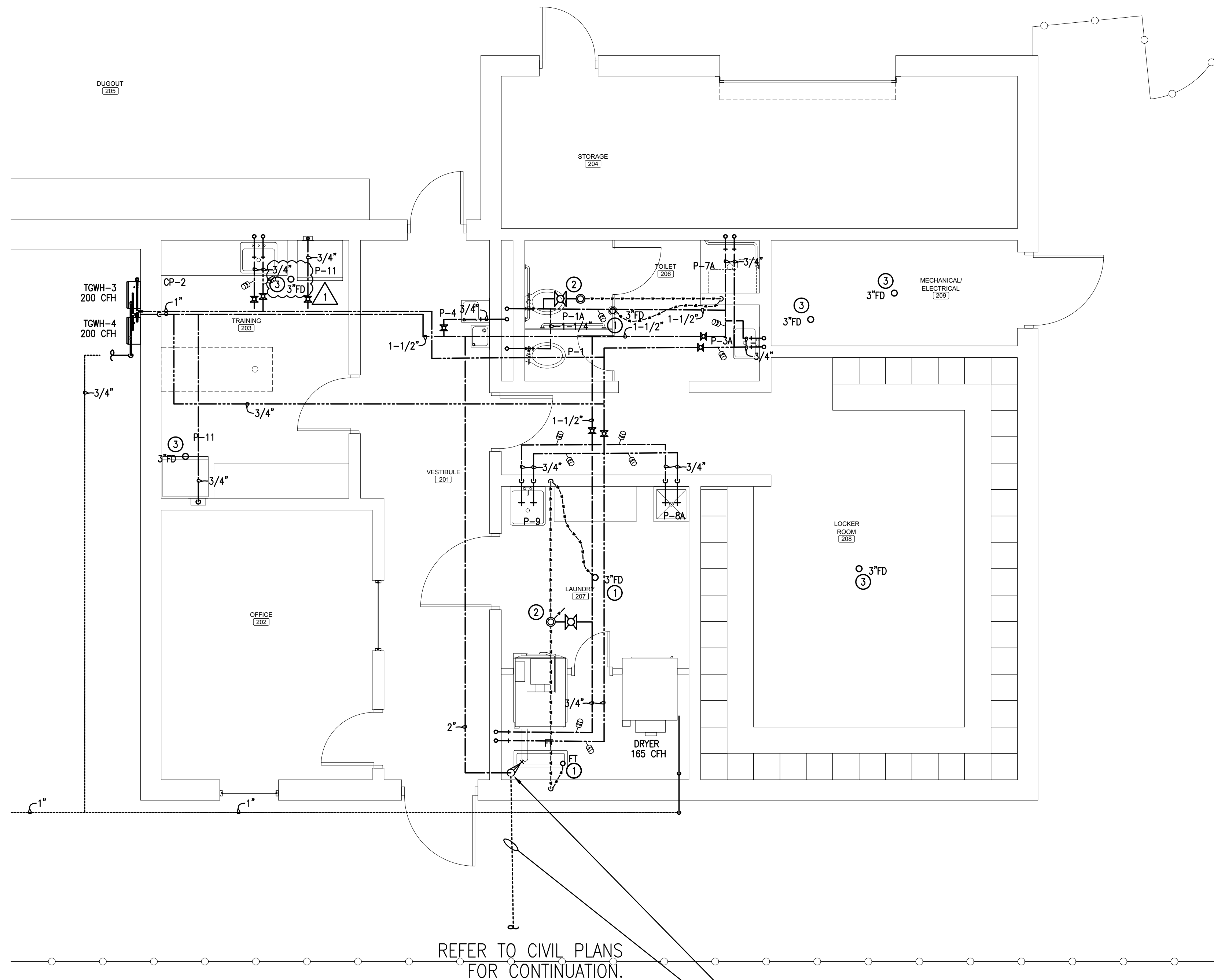


**DOMESTIC WATER GENERAL NOTES:**

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
3. ALL FIXTURES MUST BE PROVIDED WITH STOPS. THOSE STOPS MUST BE FULLY ACCESSIBLE.
4. SINKS LOCATED IN PUBLIC AREAS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE, MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTR'S AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTR'S PER 2021 IMC.
8. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

**DOMESTIC WATER KEYNOTES:**

- ① EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
- ② SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT LOCATED ABOVE THE CEILING. PROVIDE WITH 1/2" BRANCH AND ISOLATION VALVE. CONNECT FOUR FIXTURES (MAX.) PER UNIT.
- ③ PROVIDE DRAIN WITH TRAPGUARD DEVICE (OR EQUAL) AS TRAP PRIMER ALTERNATE.



**DOMESTIC WATER PLAN-SOFTBALL FIELD HOUSE**  
SCALE: 1/4"=1'-0"



SHEET TITLE : DOMESTIC WATER  
PLAN - SOFTBALL  
FIELD HOUSE

MCKEE JOB # : 23-199

DRAWN BY : D. B.

DATE: 06.04.2024

REVISED DATE: 07.10.2024

REVISED DATE:

REVISED DATE:

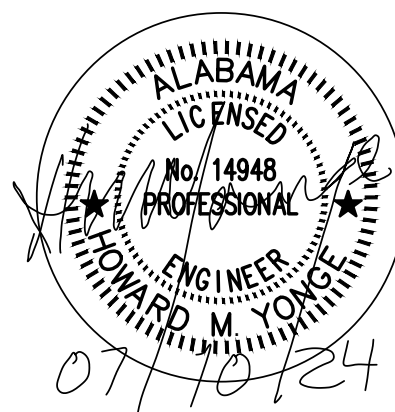
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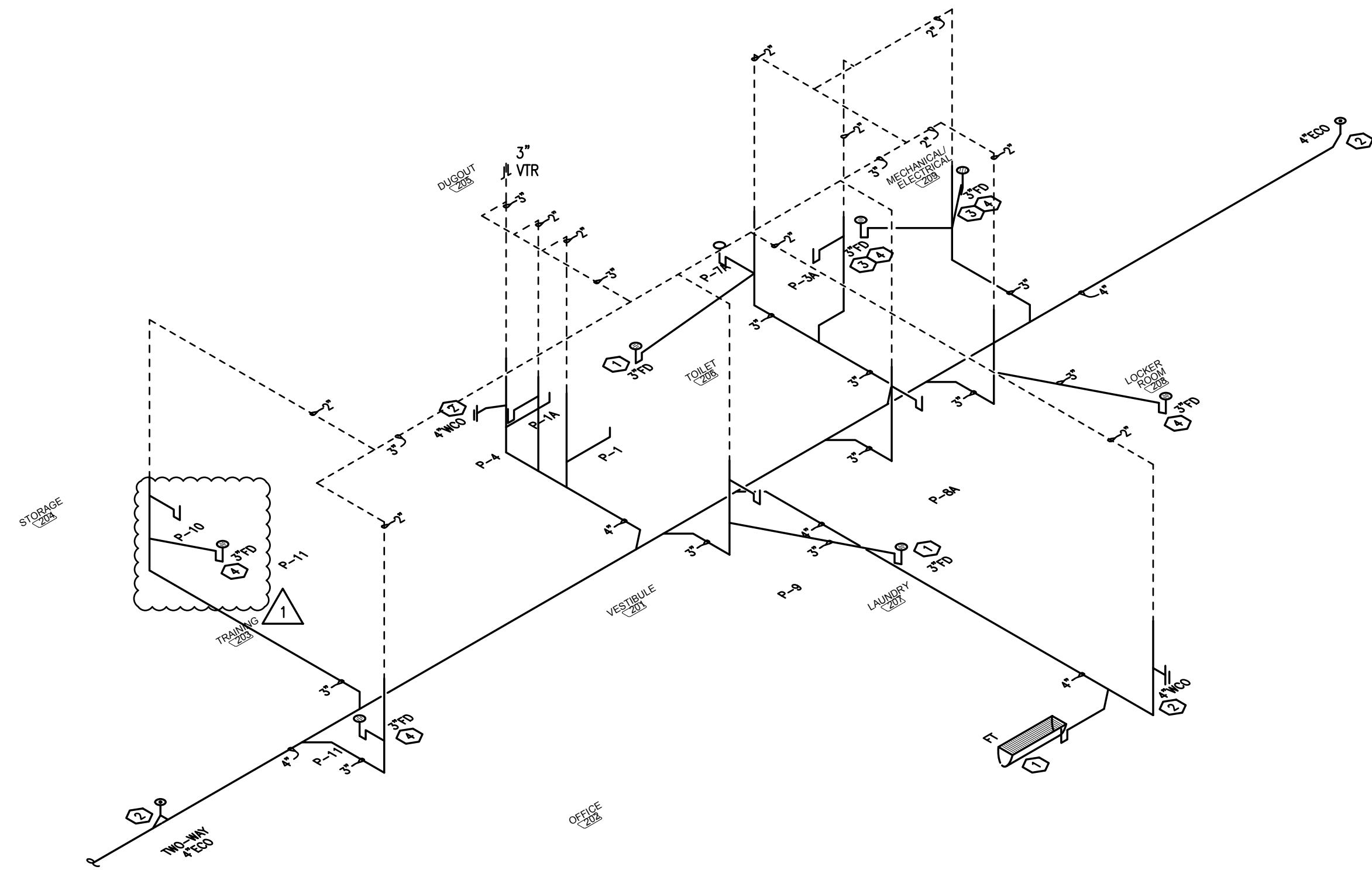


**NEW SOFTBALL COMPLEX**  
AT  
**DAPHNE HIGH SCHOOL**  
FOR THE  
**BALDWIN COUNTY B.O.E.**

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933





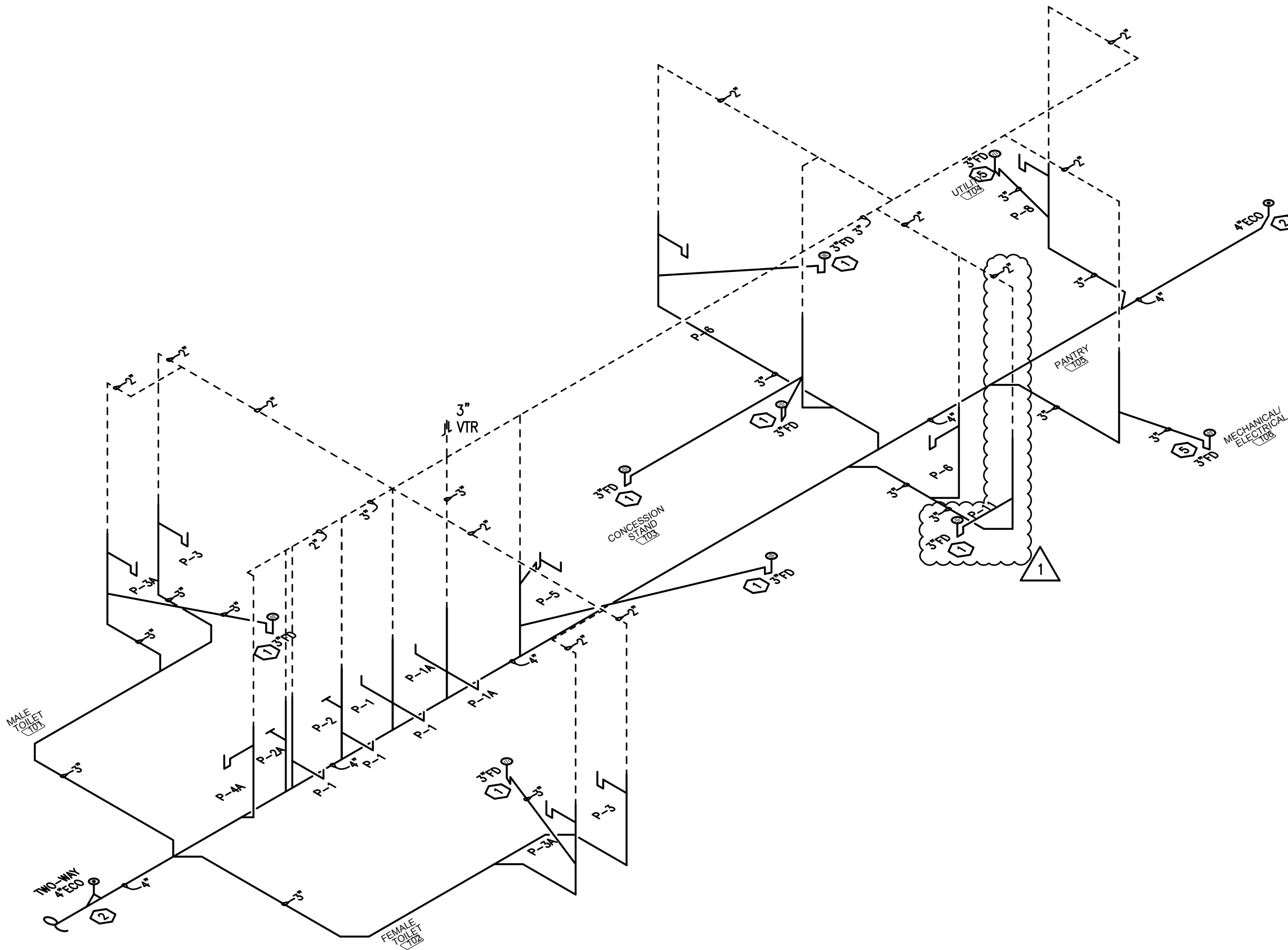
 **SANITARY WASTE  
RISER DIAGRAM-SOFTBALL FIELD HOUSE**  
SCALE: NONE

**SANITARY WASTE GENERAL NOTES:**

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
2. UNDERGROUND SANITARY WASTE AND VENT PIPING SHALL BE SMOKE TESTED PRIOR TO INSTALLATION OF PLUMBING FIXTURES.
3. OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
4. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
5. ALL HORIZONTAL PORTIONS OF THE SANITARY WASTE PIPING SERVING FOR CONDENSATE DISPOSAL SHALL BE INSULATED WITH 1" THICK SECTIONAL FIBERGLASS INSULATION WITH AN "ASJ" JACKET. INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN TRAP SHALL ALSO BE INSULATED.
6. PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
7. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTRS AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTRS PER 2021 IMC.
8. ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

**SANITARY WASTE KEYNOTES:**

- 1 EXTEND TRAP PRIMER PIPING FROM FLOOR DRAIN UP INSIDE WALL FOR CONNECTION TO A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT.
- 2 WALL CLEANOUT TO BE COMPLETELY SERVICE ACCESSIBLE ON WALL.
- 3 DRAIN FOR CONDENSATE DISPOSAL FROM HVAC EQUIPMENT. COORDINATE FINAL LOCATION OF DRAIN WITH HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE A SUFFICIENTLY SIZED AIR GAP FITTING AT DRAIN TO ACCOMMODATE HVAC EQUIPMENT AND AUXILIARY PAN CONDENSATE DRAINS.
- 4 DRAIN FOR CONDENSATE DISPOSAL FROM HVAC EQUIPMENT LOCATED ABOVE. COORDINATE LOCATION OF DRAIN WITH HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE A SUFFICIENTLY SIZED AIR GAP FITTING AT DRAIN TO ACCOMMODATE HVAC EQUIPMENT AND AUXILIARY PAN CONDENSATE DRAINS.
- 5 PROVIDE DRAIN WITH TRAPGUARD (OR EQUAL) AS A TRAP PRIMER ALTERNATE.



 **SANITARY WASTE RISER DIAGRAM  
CONCESSIONS / TOILET BUILDING**  
SCALE: NONE

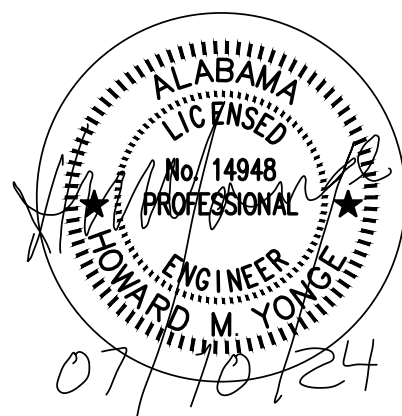
 **H.M. YONGE & ASSOCIATES, INC.**  
CONSULTING ENGINEERS / EST. 1988  
91 EAST GREGORY STREET  
PENSACOLA, FLORIDA 32502  
PHONE: (850)434-2661  
253 ST. ANTHONY STREET  
MOBILE, ALABAMA 36603  
PHONE: (251)690-7446



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**McKee and Associates**  
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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : **SANITARY WASTE  
RISER DIAGRAMS**

MCKEE JOB # : 23-199

DRAWN BY : D. B.

DATE: 06.04.2024

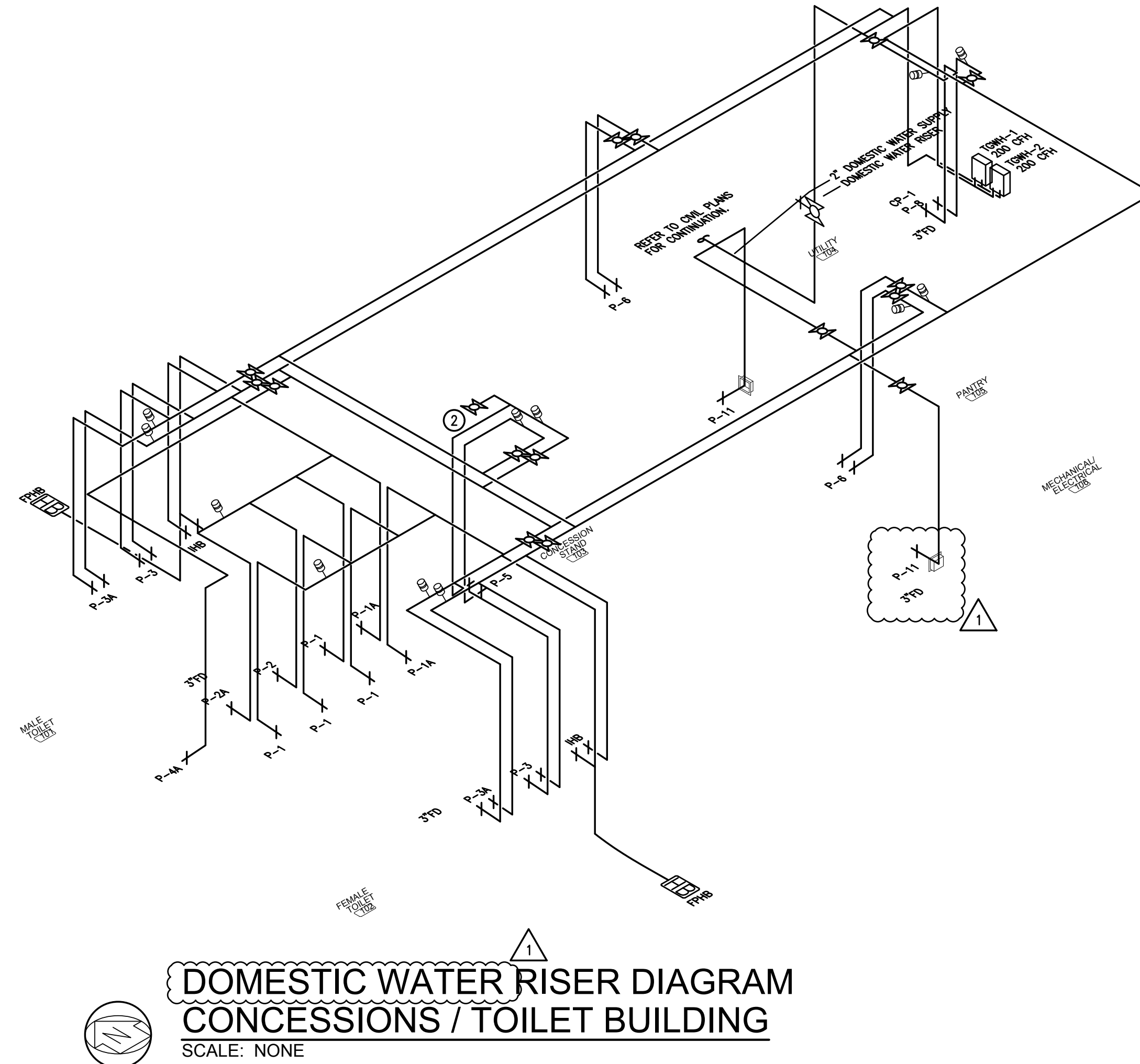
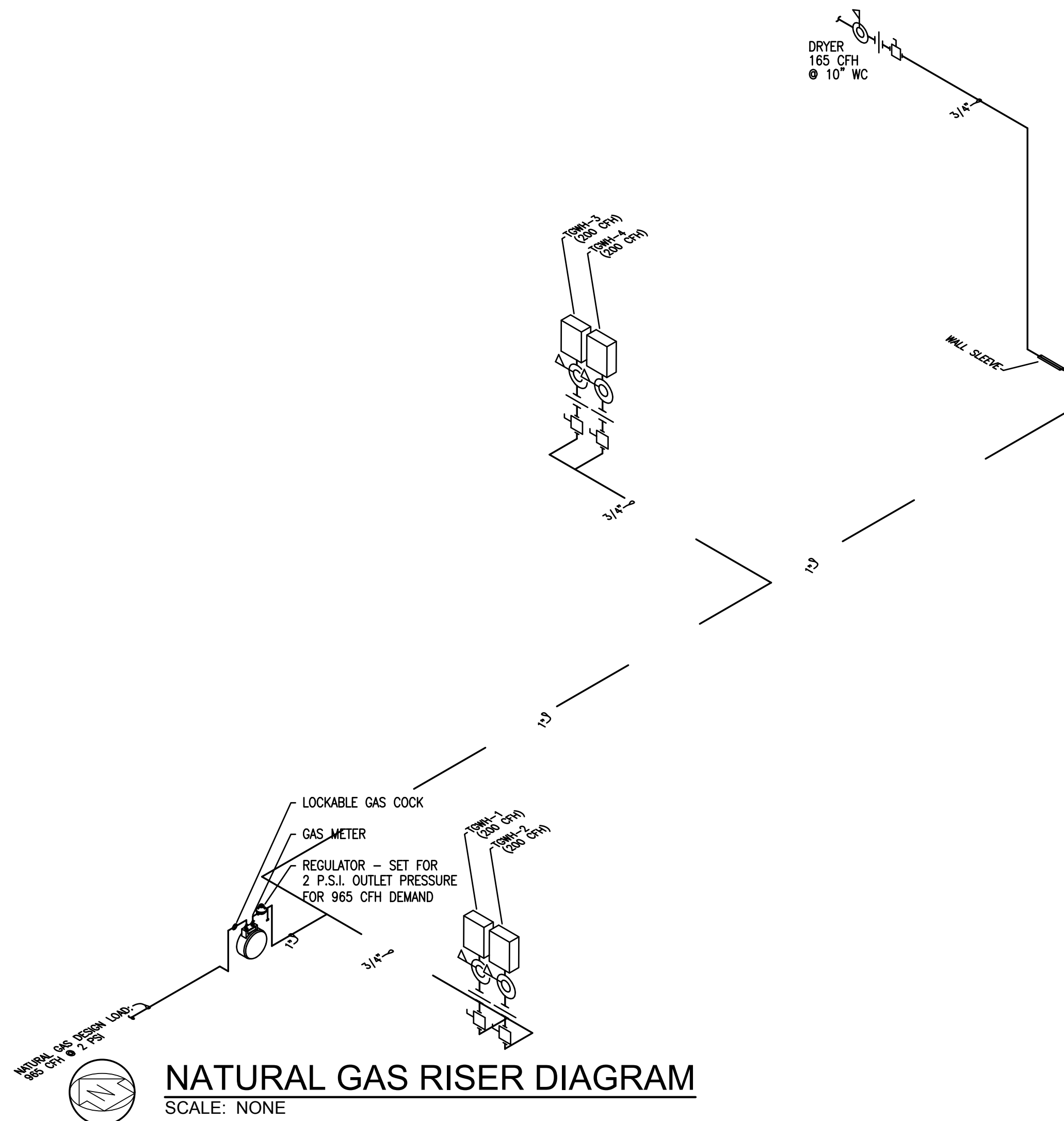
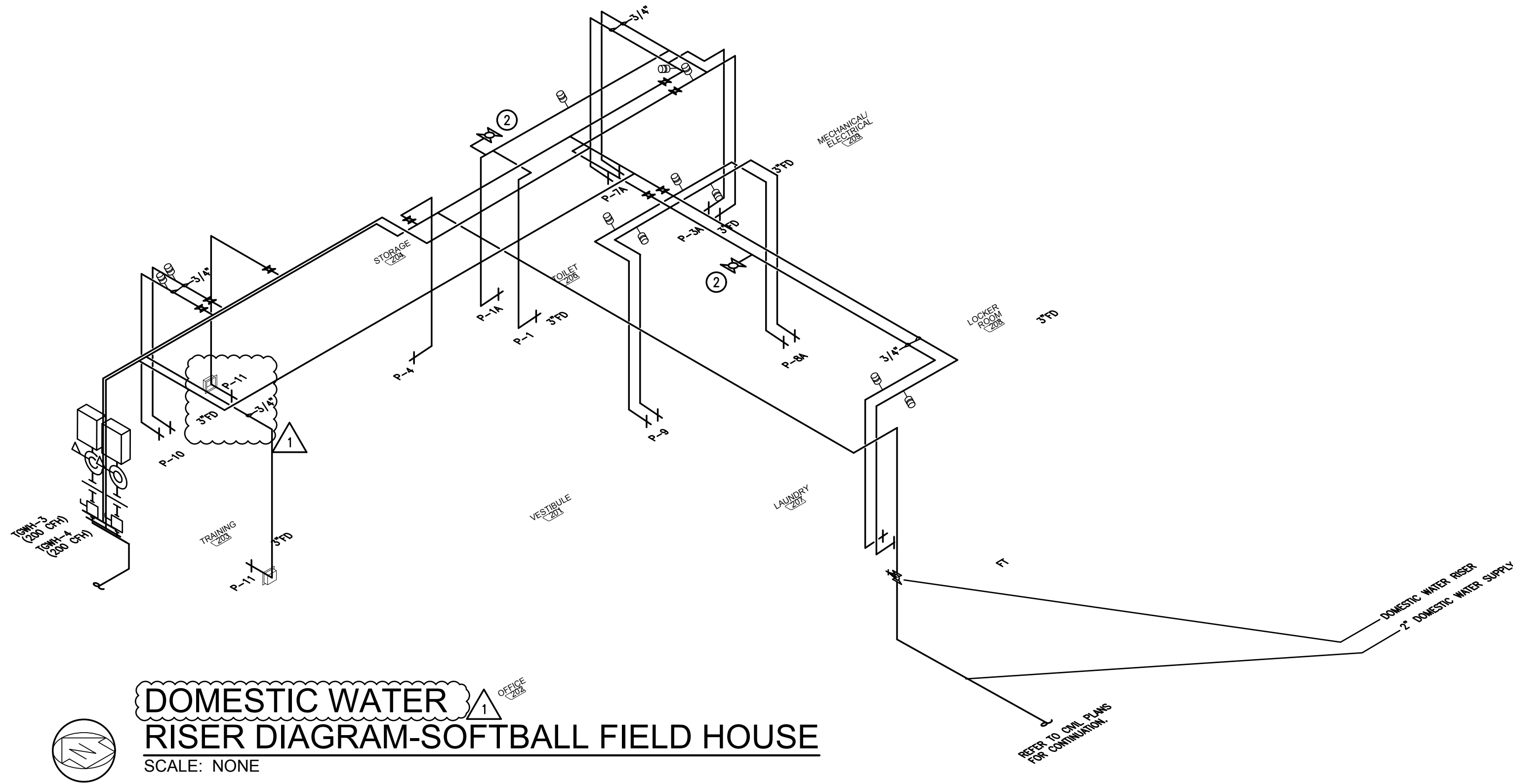
REVISED DATE: 07.10.2024

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SHEET NO. : **P3.1**





### DOMESTIC WATER GENERAL NOTES:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE-RATED WALLS AND SHALL PROVIDE UL APPROVED SLEEVES FOR ALL PIPING PENETRATIONS THROUGH RATED PARTITIONS AND FLOORS.
- OFFSET PIPING WITHIN CEILING SPACE AS REQUIRED TO LOCATE PIPE RISERS AND DROPS WITHIN WALLS AS SHOWN ON PLANS.
- ALL FIXTURES MUST BE PROVIDED WITH STOPS. THOSE STOPS MUST BE FULLY ACCESSIBLE.
- SINKS LOCATED IN PUBLIC AREAS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
- PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS WITH TRAP PRIMER PIPING FROM A SELF-CONTAINED TRAP PRIMER DISTRIBUTION UNIT WITH 1/2" ISOLATION VALVE. MAXIMUM OF FOUR FIXTURES PER TRAP PRIMER UNIT. UNIT TO BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.
- PLUMBING DEVICES LOCATED IN WALLS, FLOORS, OR CEILINGS MUST BE FULLY SERVICE ACCESSIBLE. PRIOR TO INSTALLATION, PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND OTHER CONTRACTORS WHOSE WORK MAY BE AFFECTED.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR ALL VTR'S AND ANY OTHER ROOF PENETRATIONS WITH ROOFTOP MECHANICAL EQUIPMENT AND OUTSIDE AIR INTAKES. A MINIMUM DISTANCE OF 12 FEET SHALL BE MAINTAINED BETWEEN ALL OUTSIDE AIR INTAKES AND VTR'S PER 2021 IMC.
- ALL PIPING PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE SUFFICIENTLY PROTECTED TO MEET CURRENT CODE.

### DOMESTIC WATER KEYNOTES:

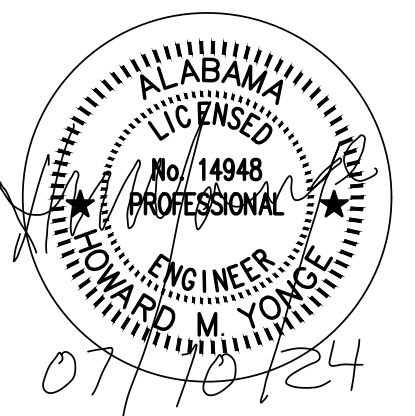
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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : DOMESTIC WATER RISER DIAGRAMS

McKEE JOB # : 23-199

DRAWN BY : D.B.

DATE : 06.04.2024

REVISED DATE : 07.10.2024

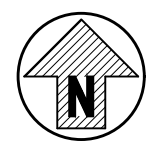
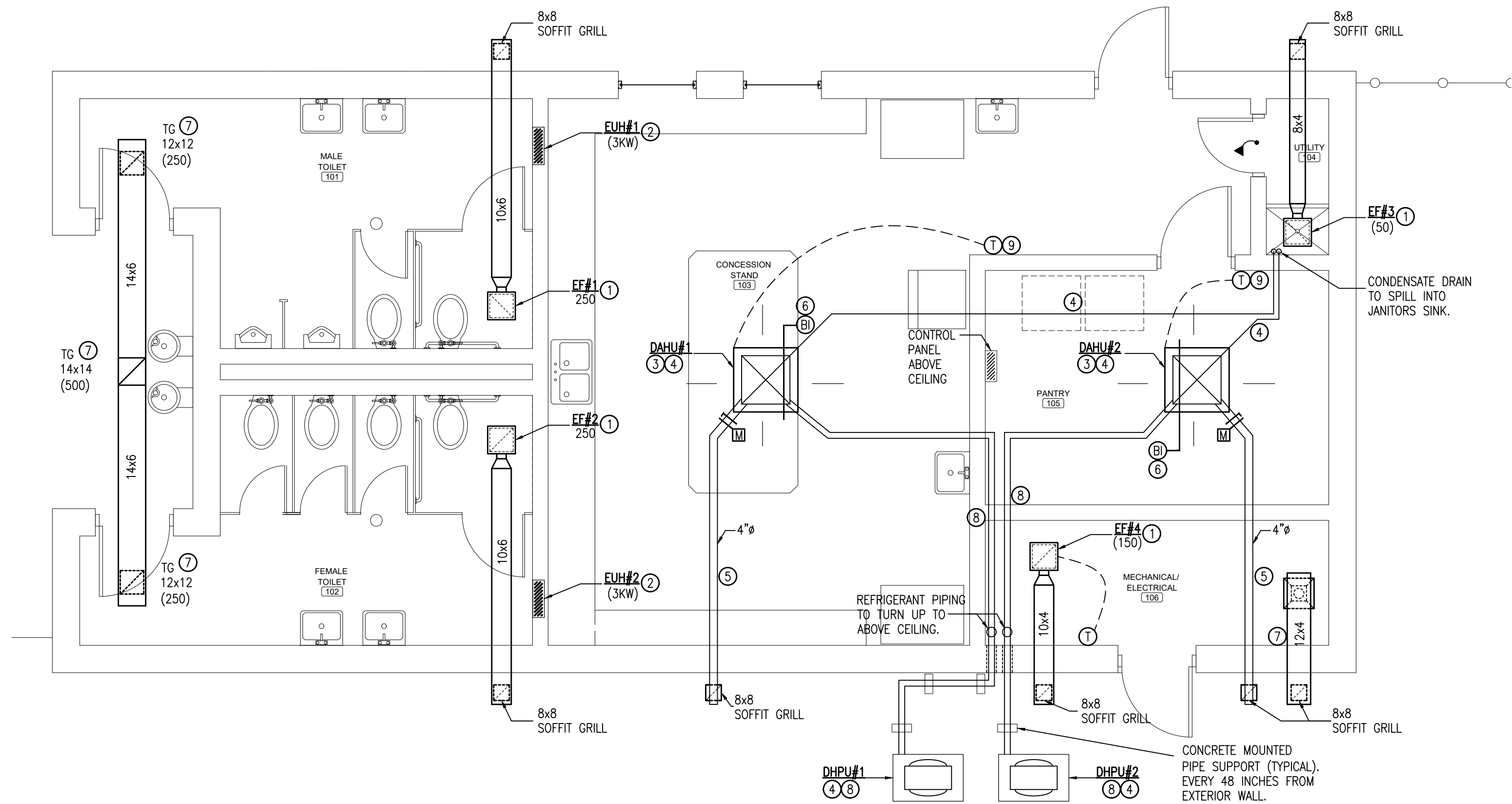
REVISED DATE :

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SHEET NO. : **P3.2**





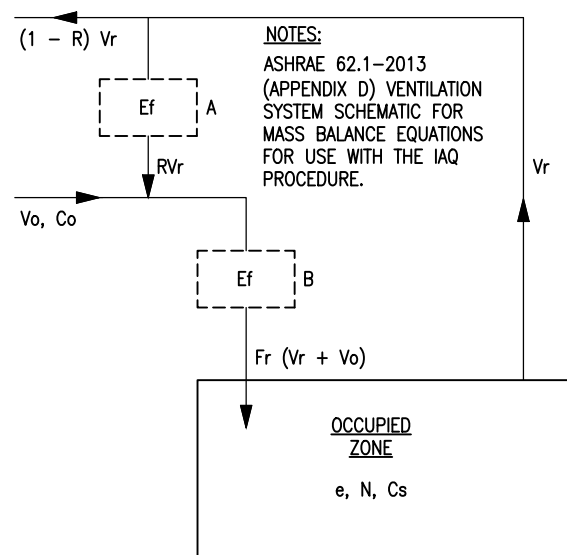
## HVAC PLAN - CONCESSION / TOILET BUILDING

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

OUTSIDE AIR VENTILATION RATES IAQ PROCEDURE – 2021 IMC										CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?		
										ACETALDEHYDE	PEOPLE	100	0.01112	0.00015	YES		
										ACETONE	PEOPLE	250	0.00167	0.00013	YES		
										AMMONIA	PEOPLE	25	0.01523	0.00373	YES		
AHU#3	FOOD	SERVER	520 (4)	6	7.5	0.18	45	94	0.8	173 (3)	BENZENE	PEOPLE	1	0.00252	0.00004	YES	
AHU#4	FOOD	STORAGE	150 (4)	1	0	0.12	0	90	0.8	23 (3)	2-BUTANONE (MEK)	PEOPLE	200	0.00019	0.00002	YES	
											CARBON DIOXIDE	PEOPLE	5000	597	2202	YES	
											CHLOROFORM	PEOPLE	2	0.00011	0.00002	YES	
											DIOXANE	PEOPLE	100	0	0	YES	
											HYDROGEN SULFIDE	PEOPLE	10	0	0	YES	
											METHANE	PEOPLE	N/A	1.68094	1.68094	YES	
											METHANOL	PEOPLE	200	0	0	YES	
											METHYLENE CHLORIDE	PEOPLE	25	0.00077	0.00003	YES	
											PROPANE	PEOPLE	1000	0.00998	0.00998	YES	
											TETRACHLOROETHANE	PEOPLE	5	0	0	YES	
											TETRACHLOROETHYLENE	PEOPLE	100	0.00037	0.00001	YES	
											TOLUENE	PEOPLE	100	0.00533	0.00007	YES	
											TRICHLOROETHANE	PEOPLE	350	0.00077	0.02	YES	
											XYLENE	PEOPLE	100	0.00230	0.00003	YES	
NOTES: ① IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION										(1 - R) Vr		NOTES: ASHRAE 62.1-2013		IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES	

### NOTES:

- IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1-2013, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
- ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
- OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP)..
- OUTSIDE AIR IAQ CALCULATION FOR TOTAL SEATING AREA.



NOTE: OWNER HAS BEEN ADVISED REGARDING THE USE OF BI-POLAR AIR PURIFICATION DEVICES.

NOTE: AIR PURIFICATION DEVICES SHALL BE INTERLOCKED WITH EVAPORATOR SECTION TO BE OPERATION ONLY AS EVAPORATOR SECTION IS OPERATING.

### HVAC KEY NOTES

- CEILING MOUNTED EXHAUST FAN WITH AIR DISCHARGE DUCT. ROUTE DUCT GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. EXHAUST AIR DUCT SHALL EXTEND FOR TERMINATION IN SOFFIT WITH SOFFIT GRILLE.
- ELECTRIC UNIT HEATER IS TO BE MOUNTED IN WALL AS A RECESSED TYPE. DO NOT MOUNT UNIT HEATER ON SURFACE OF WALL. INCLUDE WITH UNIT INTEGRAL CONTROLS. BOTTOM OF UNIT SHALL BE 66 INCHES ABOVE FINISHED FLOOR.
- NEW DUCTLESS MINI-SPLIT AIR CONDITIONING UNIT EVAPORATOR SECTION MOUNTED IN CEILING. MECHANICAL CONTRACTOR TO COORDINATE SPACE ABOVE CEILING FOR SUFFICIENT ROOM TO INSTALL UNIT. OPERATION OF EVAPORATOR SECTION SHALL BE FOR EITHER COOLING OR HEATING.
- EVAPORATOR SECTION SHALL HAVE AN INTEGRAL CONDENSATE PUMP. EXTEND 3/4 INCH PVC, SCH. 40, CONDENSATE PIPING INTO JANITOR'S CLOSET TO TURN DOWN ON WALL TO SPILL CONDENSATE INTO JANITOR'S SINK. SUPPORT CONDENSATE PIPING IN VERTICAL AND HORIZONTAL POSITIONS EVERY 4 FEET AND AT POINT OF TERMINATION WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. INSTALLATION OF DRAIN PIPING SHALL HAVE AN INCLINE DOWN TO JANITOR'S SINK BY 1 INCH EVERY 40 FEET. COMPLETELY INSULATED ENTIRE LENGTH OF DRAIN PIPING.
- EVAPORATOR SECTION SHALL HAVE AN OUTDOOR AIR INTAKE DUCT (4 INCHES ROUND) EXTENDED FROM UNIT ABOVE CEILING OVER FOR CONNECTION AND TERMINATION TO SOFFIT MOUNTED OUTDOOR AIR INTAKE GRILLE. OUTDOOR AIR INTAKE GRILLE SHALL BE ALUMINUM CUBE CORE TYPE. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN OUTDOOR AIR DUCT. BALANCE MANUAL VOLUME DAMPER TO SCHEDULED AIR FLOW. INTERLOCK MOTORIZED DAMPER WITH TEMPERATURE CONTROL TO BE OPEN DURING OCCUPIED HOURS AND CLOSED OTHERWISE.
- INCLUDE WITH INSTALLATION OF EVAPORATOR SECTION BI-POLAR IONIZATION AIR PURIFICATION DEVICE. AIR PURIFICATION DEVICE SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. INTERLOCK DEVICE TO OPERATE AT SAME TIME AS EVAPORATOR SECTION AND OTHERWISE BOTH SHALL NOT BE OPERATING.
- TRANSFER AIR DUCT WITH DESIGNATED CUBE CORE TRANSFER AIR GRILLES AS INDICATED. ADJUST FINAL LOCATION TO ACCOMMODATE AN EFFICIENT INSTALLATION.
- NEW OUTDOOR CONDENSING UNIT OF DUCTLESS MINI-SPLIT AIR CONDITIONING UNIT MOUNTED ON 4 INCH THICK CONCRETE PAD THAT IS 4 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. REFRIGERANT PIPING SHALL BE EXTENDED FROM OUTDOOR CONDENSING UNIT THROUGH EXTERIOR WALL AND TURN UP TO ABOVE CEILING ELEVATION. SEAL WALL PENETRATION AIR TIGHT, WEATHER AND RODENT PROOF. SUPPORT REFRIGERANT PIPING EVERY 4 FEET WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. ROUTE REFRIGERANT PIPING ABOVE BOTTOM CHORD OF ROOF JOISTS GENERALLY AS INDICATED, WITH OFFSETS TO AVOID OBSTRUCTIONS, TO RESPECTIVE EVAPORATOR SECTION FOR CONNECTION.
- WALL MOUNTED TEMPERATURE CONTROLLER SHALL BE ELECTRONIC TYPE AND BE COMPATIBLE WITH EXISTING ENERGY MANAGEMENT SYSTEM OF THE HIGH SCHOOL. CONTROLLER SHALL BE SET POINT ADJUSTABLE WITH AUXILIARY CONTACTS FOR CONTROL OF MOTORIZED OUTDOOR AIR INTAKE DAMPER. PROVIDE DIRECT DIGITAL CONTROL PANEL FOR CONNECTING CONTROLLERS TO BUILDING AUTOMATION SYSTEM.

### SPLIT SYSTEM HEAT PUMP W/ ELECTRIC HEAT:

GENERAL: SPACE TEMPERATURE SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTATS. THERMOSTAT SUB-BASE SHALL INCLUDE A SYSTEM SELECTOR SWITCH (OFF-HEAT-AUTO-COOL) AND FAN SWITCH (AUTO-ON-OFF) AND BE PROVIDED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE, HAVE BATTERY BACKUP WITH NIGHT LOW AND HIGH LIMIT SETTINGS, AND HAVE OCCUPIED/UNOCCUPIED SCHEDULE CAPABILITY. UNITS SHALL RUN SUBJECT TO FACTORY SAFETIES AND DUCT MOUNTED SMOKE DETECTORS AS INDICATED.

THE THERMOSTAT SHALL HAVE AN AFTER-HOURS OVERRIDE BUTTON (1-HOUR) WHICH SHALL ENERGIZE THE 100% OUTDOOR AIR UNIT.

AIR HANDLER FAN SHALL BE CONSTANT VOLUME (CAV) TYPE AND SHALL CYCLE AS REQUIRED DURING "OCCUPIED" & "UNOCCUPIED" MODES TO MAINTAIN SPACE TEMPERATURE SETPOINT.

THE SPACE THERMOSTAT SHALL HAVE A CLEAR, PLASTIC, LOCKABLE ENCLOSURE.

COOLING/HEATING MODE: THE COMPRESSOR SECTION SHALL START AND STOP ACCORDING TO THE THERMOSTAT SETPOINTS. COOLING AND HEATING SHALL CHANGE OVER AUTOMATICALLY. IN THE "COOLING" MODE, WHEN THE SPACE TEMPERATURE RISES ABOVE SETPOINT (74 °F, FIELD ADJ.), THE COMPRESSORS SHALL BE ENERGIZED AND SHALL RUN UNTIL SPACE COOLING TEMPERATURE REQUIREMENT IS SATISFIED. IN THE "HEATING" MODE, WHEN THE SPACE TEMPERATURE FALLS BELOW SETPOINT (68 °F, FIELD ADJ.), THE CYCLE SHALL REVERSE AND SHALL RUN UNTIL THE SPACE HEATING TEMPERATURE REQUIREMENT IS SATISFIED. HEAT PUMP OPERATION SHALL SERVE AS STAGE 1 HEATING. (CONTROLS SHALL BE PROVIDED THAT PREVENT SUPPLEMENTAL HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE). SUPPLEMENTAL ELECTRIC HEATERS SHALL SERVE AS STAGE 2 HEATING AS WELL AS FOR DEFROST CYCLE AND EMERGENCY HEAT. DURING STAGE 2 HEATING, THE COMPRESSORS AND ELECTRIC HEATER SHALL BOTH OPERATE SIMULTANEOUSLY.



SHEET TITLE : HVAC PLAN - CONCESSION / TOILET BUILDING

MCKEE JOB # : 23-199

DRAWN BY : ARH

DATE: JUNE 04, 2024

REVISED DATE: JULY 10, 2024

REVISED DATE:

REVISED DATE:

SHEET NO. : M1.1



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

MCKEE and ASSOCIATES  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933





ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PANELBOARD – SEE RESPECTIVE PANELBOARD SCHEDULE.
	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROWS INDICATE CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT. "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = #12 AWG.
	INDICATES CONDUIT RUN UNDERGROUND.
	NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH – SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'-6" A.F.F. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
	ELECTRIC MOTOR – SEE RESPECTIVE EQUIPMENT SCHEDULE.
	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DOUBLE DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE.
	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE.
	INDICATES GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE. FLUSH WALL, READILY ACCESSIBLE, MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE.
	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE WITH TOP OUTLET UNSWITCHED AND THE BOTTOM OUTLET SWITCHED WITH THE LIGHT FIXTURES. PROVIDE PHENOLIC LABEL INDICATING BOTTOM OUTLET IS CONTROLLED WITH THE LIGHT FIXTURES AND WILL SWITCH OFF WHEN THE ROOM IS UNOCCUPIED. RECEPTACLE SHALL BE FLUSH WALL MTD. 18" A.F.F. UNLESS NOTED OTHERWISE.
	(2) 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLES FLUSH MOUNTED IN FLOOR BOX WITH FLUSH FACEPLATE AND (2) TYPE "D2" DATA OUTLETS AS INDICATED ON TELECOM LEGEND. PROVIDE DEVICE MOUNTING BRACKETS FOR EACH DEVICE. ONE OF THE TWO DUPLEX RECEPTACLES SHALL BE SWITCHED ENTIRELY. FLOOR BOX EQUAL TO WIREMOLD CAT# RFB4SS SERIES WITH COVER EQUAL TO WIREMOLD CAT# FPCTC(FINISH BY ARCHITECT). PROVIDE A MINIMUM 1" CONDUIT FOR CAT-5e CABLES ROUTED UNDERGROUND OVER TO NEAREST FULL WALL AND UP TO 6" ABOVE ACCESSIBLE CEILING.
	JUNCTION BOX LOCATION. SIZE AND TYPE AS REQUIRED.
	INSTALL OUTLET TO MATCH PLUG ON EQUIPMENT.
	GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH N.E.C. ARTICLE 250.50 – SEE PLANS AND RISER.
	POWER RELAY TO INTERLOCK WITH 277V LIGHTS OR MECHANICAL EQUIPMENT. COORDINATE VOLTAGE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT INTERLOCKS,
	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM CONTROL PANEL – WITH 2 LINE DIALER CONNECTED TO TELEPHONE BACKBOARD. VOICE EVACUATION CAPABLE.
	FIRE ALARM SYSTEM ADDRESSABLE PULL STATION – SEMI FLUSH MOUNTED 48" A.F.F. TO TOP UNLESS NOTED OTHERWISE.
	ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR WITH BASE.
	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM HEAT DETECTOR RATE OF RISE TYPE.
	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE SEMI FLUSH WALL MOUNTED AT 80" A.F.F. OR 6" BELOW THE FINISHED CEILING WHICHEVER IS LOWER, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM VISUAL DEVICE SEMI FLUSH WALL MOUNTED AT 80" A.F.F. OR 6" BELOW THE FINISHED CEILING WHICHEVER IS LOWER, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE SEMI FLUSH MOUNTED IN THE CEILING. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE.
	EXTERIOR FIRE ALARM SYSTEM HORN ALARM (WEATHERPROOF DEVICE WITH WEATHERPROOF CAST BOX). FLUSH MOUNT 8'0" AFF. COORDINATE MOUNTING LOCATION WITH OBSTACLES AND MOUNT AS REQUIRED.
	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR COMPLETE WITH HOUSING AND AIR SAMPLING TUBES. "S" DENOTES DETECTOR IN SUPPLY DUCT; "R" DENOTES DETECTOR IN RETURN DUCT.
	FIRE ALARM SYSTEM INTERFACE MODULE – MOUNTED AT EQUIPMENT.
	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
	SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
	ADDRESSABLE INTELLIGENT FIRE ALARM VOICE COMMAND CENTER.
	ADDRESSABLE INTELLIGENT FIRE ALARM FIRE FIGHTERS MICROPHONE FLUSH MOUNTED IN WALL. COORDINATE FINAL LOCATION WITH THE AHJ PRIOR TO ROUGH-IN.
	INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 6" ABOVE COUNTERTOP OR IN BACKSPLASH.
	COORDINATE DEVICE LOCATION WITH ELECTRIC WATER COOLER. MOUNT IN AN ACCESSIBLE LOCATION.
	INDICATES WEATHER RESISTANT WIRING DEVICE WITH WEATHER PROOF IN-USE COVER PLATE. WEATHERPROOF COVER BOX SHALL BE LISTED AS "EXTRA DUTY" PER NEC (2020) 406.9(B).
	INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE.
SYMBOLS NOTES: UNLESS OTHERWISE NOTED THE FOLLOWING SHALL APPLY: 1. ALL OUTLETS SHALL BE FLUSH MOUNTED. 2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE. 3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING. 4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE 5. COLORS FOR ALL DEVICES (I.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE DETERMINED BY THE ARCHITECT. 6. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR. 7. ALL WIRING SHALL BE COPPER. 8. DO NO INSTALL OUTLETS BACK TO BACK. 9. PROVIDE INDICATES THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL. 10. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE RUN IN A SINGLE CONDUIT, NEC SECTION 310.15 SHALL APPLY.	

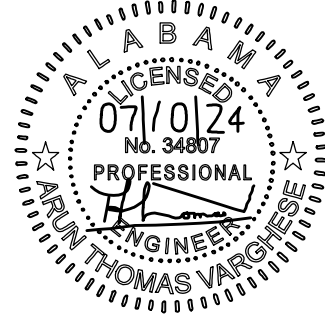
LIGHTING FIXTURE SCHEDULE						
MARK	LAMPS		MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES	
	LUMENS	WATTS				TYPE
HB4E**	2747	28W	LED 40K	SURFACE WALL 8'0" AFF	GARCOO 104L-16L-530-NW-G1-4-EBPC-UNV-DD-PCB-IMR2-F1-BZ	PROVIDE WITH INTEGRAL PHOTOCELL ON/OFF CONTROL AND 30% DIMMING AFTER 15 MINUTES NO ACTIVITY.
WS	1000	10W	LED 40K	SURFACE WALL 8'0" AFF	FC FCW1033-277-4-10L-BZ-YFL	
EX	N/A	1W	LED RED	UNIVERSAL	HE WILLIAMS EXIT/CA-R-AF-BLK-EM-SDT	PROVIDE ARROWS AS INDICATED ON PLANS, PROVIDE SINGLE/DOUBLE FACE AS INDICATED ON PLANS. EX1 INDICATES SINGLE FACE EX2 INDICATES DOUBLE FACE.
L3A L3AE	3000	20W	LED 35K	RECESSED GRID	HE WILLIAMS LT-24-L40-8-35-AF-(L30)-DIM-120 HE WILLIAMS LT-24-L40-8-35-AF-(L30)-DIM-120-EM/10WLP	"E" DENOTES THE FIXTURE SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
L3I L3IE	3000	20W	LED 35K	SUSPENDED 9'0" AFG	HE WILLIAMS 75R-4-L40-835-(L30)-DRV-120 HE WILLIAMS 75R-4-L40-835-(L30)-DRV-120-EM/10WLP	"E" DENOTES THE FIXTURE SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
L3O L3OE	4000	20W	LED 35K	SURFACE CEILING	HE WILLIAMS 96-4-L40-835-HIAFR-WET/1-DIM-UNV HE WILLIAMS 96-4-L40-835-HIAFR-WET/1-DIM-UNV-EM/10WRM/WET	"E" DENOTES THE FIXTURE SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
BC	11000	88W	LED 40K	SUSPENDED CEILING	HE WILLIAMS 96-4-L110-840-HIAFR-SSCMB-WET/1-DIM-UNV	BATTING CAGE LIGHTS. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
L5A L5AE	5000	33W	LED 35K	RECESSED GRID	HE WILLIAMS LT-24-L52-8-35-AF-DIM-120 HE WILLIAMS LT-24-L52-8-35-AF-DIM-120-EM/10WLP	"E" DENOTES THE FIXTURE SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
SL15 SL15E	1500	13.8	LED 30K	SURFACE CEILING	HE WILLIAMS 6DR-L15-830-DIM-UNV-OW-OF-WH-WET/CC HE WILLIAMS 6DR-L15-830-DIM-UNV-OW-OF-WH-WET/CC-EM/7W/1PRTS	"E" DENOTES THE FIXTURE SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
** FIXTURE SHALL BE PROVIDED WITH PHOTO AND MOTION CONTROL AND BE PROGRAMMED TO DIM BY 30% DURING ANY PERIOD WHERE NO ACTIVITY HAS BEEN DETECTED FOR LONGER THAN 15 MINUTES. THE CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS WITH THE FIXTURE MANUFACTURER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL CONTROLS AND ACCESSORIES HAVE BEEN PROVIDED WITH THE FIXTURE FOR A COMPLETE AND FUNCTIONAL ASSEMBLY REGARDLESS OF THE SPECIFIED MODEL NUMBER. SEE KEYNOTES ON LIGHTING PLANS FOR ADDITIONAL INFORMATION.						
GENERAL NOTES: 1. THE MOUNTING HEIGHTS/PENDANT LENGTHS OF ALL FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION. 2. ANY EXPOSED RACEWAY SHALL BE PAINTED TO MATCH THE BACKGROUND COLOR. 3. PROVIDE FLANGE KITS FOR ALL FIXTURES INSTALLED IN A SHEET ROCK CEILING. 4. CONTRACTOR SHALL ORDER FIXTURES WITH PROTECTIVE COVER OPTION TO PROTECT FIXTURES DURING CONSTRUCTION. 5. FIXTURE TAGS THAT INCLUDE "E" SHALL BE PROVIDED WITH EMERGENCY BATTERY BACK UP.						
<div>CONTRACTOR SHALL PROVIDE A MINIMUM OF 4 HOURS OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM BY A FACTORY CERTIFIED REPRESENTATIVE.</div>						
<div>CONTRACTOR SHALL SUBMIT AN OCCUPANCY SENSOR LAYOUT ON A FLOOR PLAN AS PART OF THE SHOP DRAWINGS.</div>						
<div>CONTRACTOR SHALL SUBMIT WITH THE SHOP DRAWINGS:  STADIUM POINT BY POINT LIGHTING CALCULATIONS SHOWING A MINIMUM AVERAGE OF 55 FOOTCANDELES ON THE FIELD WITH A MAX/MIN RATIO OF 1.4 OR LESS. CALCULATION PLAIN SHALL BE 3FT AFG. CALCULATIONS SHALL INCLUDE LUMINAIRE SCHEDULE, CALCULATION SUMMARY, AND FIXTURE AIMING DIAGRAM. AIMING ANGLES SHALL NOT EXCEED 60 DEGREES.  PROVIDE LIGHTING CONTROL SYSTEM COMMISSIONING AGENT'S FACTORY CERTIFICATION.  PROVIDE A COPY OF THE LIGHTING CONTROL SYSTEM MANUFACTURER'S COMMISSIONING REQUEST FORM. OBTAINED FROM THE COMMISSIONING AGENT, SIGNED BY THE CONTRACTOR AND ISSUED BACK TO THE COMMISSIONING AGENT.</div>						

ELECTRICAL GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 4 HOURS OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM BY A FACTORY CERTIFIED REPRESENTATIVE.
- CONTRACTOR SHALL SUBMIT AN OCCUPANCY SENSOR LAYOUT ON A FLOOR PLAN AS PART OF THE SHOP DRAWINGS.
- ANY PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED PER THE NEC WITH UL LISTED FIRE STOPPING COMPOUND.
- CONTRACTOR SHALL PROVIDE THE OWNER WITH RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ASHRAE 90.1 2013 8.7.



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.



SHEET TITLE : ELECTRICAL LEGENDS

MCKEE JOB # : 23-199

DRAWN BY : CBP

DATE: JUNE 04, 2024

REVISED DATE: JULY 10, 2024

REVISED DATE:

REVISED DATE:

**H.M. YONGE & ASSOCIATES, INC.**  
CONSULTING ENGINEERS // EST. 1988

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SHEET NO. : E0.1



SHEET NOTES: ELECTRICAL SITE PLAN

- 1 OUTLINE OF NEW POWER AND TELECOM UTILITY AREA. SEE KEYNOTES AND RISER DIAGRAM FOR MORE INFORMATION.
- 2 LOCATION OF NEW PANEL "MP".
- 3 LOCATION OF NEW PANEL "CS".
- 4 LOCATION OF NEW PANEL "PB".
- 5 LOCATION FOR NEW PAD MOUNT TRANSFORMER BY BALDWIN EMC. COORDINATE LOCATION WITH UTILITY. SEE SINGLE LINE DIAGRAM FOR NEW SERVICE EQUIPMENT REQUIREMENTS. COORDINATE NEW UTILITY REQUIREMENTS WITH ALABAMA POWER. **ALL UTILITY FEES SHALL BE INCLUDED IN THE BID PRICE.**
- 6 LOCATION FOR NEW TELECOM SERVICE CABINET. NEW SERVICE AND CABINET BY LOCAL UTILITY. COORDINATE WITH LOCAL UTILITY FOR SERVICE REQUIREMENTS. **ALL UTILITY FEES SHALL BE INCLUDED IN BID PRICE.**
- 7 LOCATION FOR NEW BALL FIELD LIGHTING CONTROLS HEAD-END CABINET. SEE KEYNOTE #5 ON RISER DIAGRAM FOR ADDITIONAL INFO. SEE PANEL SCHEDULE "MP" FOR POWER CIRCUIT LOCATION.
- 8 ALL SERVICE EQUIPMENT SHALL BE INSTALLED ADJACENT TO THE UTILITY TRANSFORMER. SEE KEYNOTE #5 THIS SHEET. SEE RISER DIAGRAM FOR EQUIPMENT REQUIREMENTS.
- 9 CONTRACTOR TO PROVIDE AND INSTALL TWO (2) 5" CONDUITS FOR PRIMARY WIRING. PRIMARY WIRING BY POWER COMPANY. CONTRACTOR TO BORE UNDER ROADWAY AS REQUIRED, COORDINATE W/ CIVIL. COORDINATE STUB LOCATION WITH POWER CO.
- 10 PROVIDE ONE 1.5" WITH PULL STRING ROUTED UNDERGROUND FROM POLE TO TBB LOCATED IN PRESSBOX ROOM, FOR FUTURE WIRING. STUB CONDUIT 6" ABOVE BOTTOM OF BACKBOARD. COORDINATE CONDUIT STUB AT POLE WITH POLE MANUFACTURER.
- 11 PROVIDE TWO (2) 2.5" CONDUITS WITH PULL STRING FOR NEW TELECOM SERVICE WIRING. WIRING BY SERVICE UTILITY. INSTALL CONDUITS UNDERGROUND FROM NEW BACKBOARD TO NEW UTILITY CABINET. ROUTING SHOWN IS DIAGRAMMATIC ONLY. FIELD COORDINATE UNDERGROUND ROUTING WITH SITE CONDITIONS. STUB CONDUITS UP 6" BELOW BOTTOM OF BACKBOARD. PROVIDE INSULATED CONDUIT BUSHINGS. **ALL UTILITY FEES SHALL BE INCLUDED IN BID PRICE.**
- 12 NEW UNDERGROUND PANELBOARD FEEDER. SEE RISER DIAGRAM. ROUTING SHOWN IS DIAGRAMMATIC ONLY. FIELD COORDINATE UNDERGROUND ROUTING WITH SITE CONDITIONS.
- 13 NEW GFCI RECEPTACLE WITH EXTRA DUTY WEATHER-PROOF COVER PLATE.
- 14 LOCATION OF NEW PANEL "FH".
- 15 ROUTE HOMERUN THROUGH CONTACTOR SYSTEM. KEYNOTES ON SINGLE LINE. ALL WIRING SHALL BE #10AWG.
- 16 NEW LIGHTING POLE WITH NEW FIXTURES AND WIRELESS CONTROLS AS INDICATED. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. LOCATION OF POLES AND LIGHTING FIXTURES SHALL BE COORDINATED WITH THE LIGHTING VENDOR PRIOR TO INSTALLATION. COMMISSIONING SHALL BE PERFORMED BY A CERTIFIED COMMISSIONING AGENT. **ALL COMMISSIONING FEES SHALL BE INCLUDED IN THE BID PRICE.** HOMERUN SHALL BE ROUTED THROUGH MUSCO CONTROL-LINK CABINET. COORDINATE WITH MUSCO FOR CONNECTION REQUIREMENTS.
- 17 NOT USED.
- 18 NEW SWITCH FOR USE WITH DUGOUT LIGHTS, PROVIDE WEATHERPROOF COVER PLATE.
- 19 LOCATION OF NEW PANEL "P1".
- 20 LOCATION OF NEW PANEL "P2".
- 21 LOCATION OF NEW LOAD CENTER "P3".

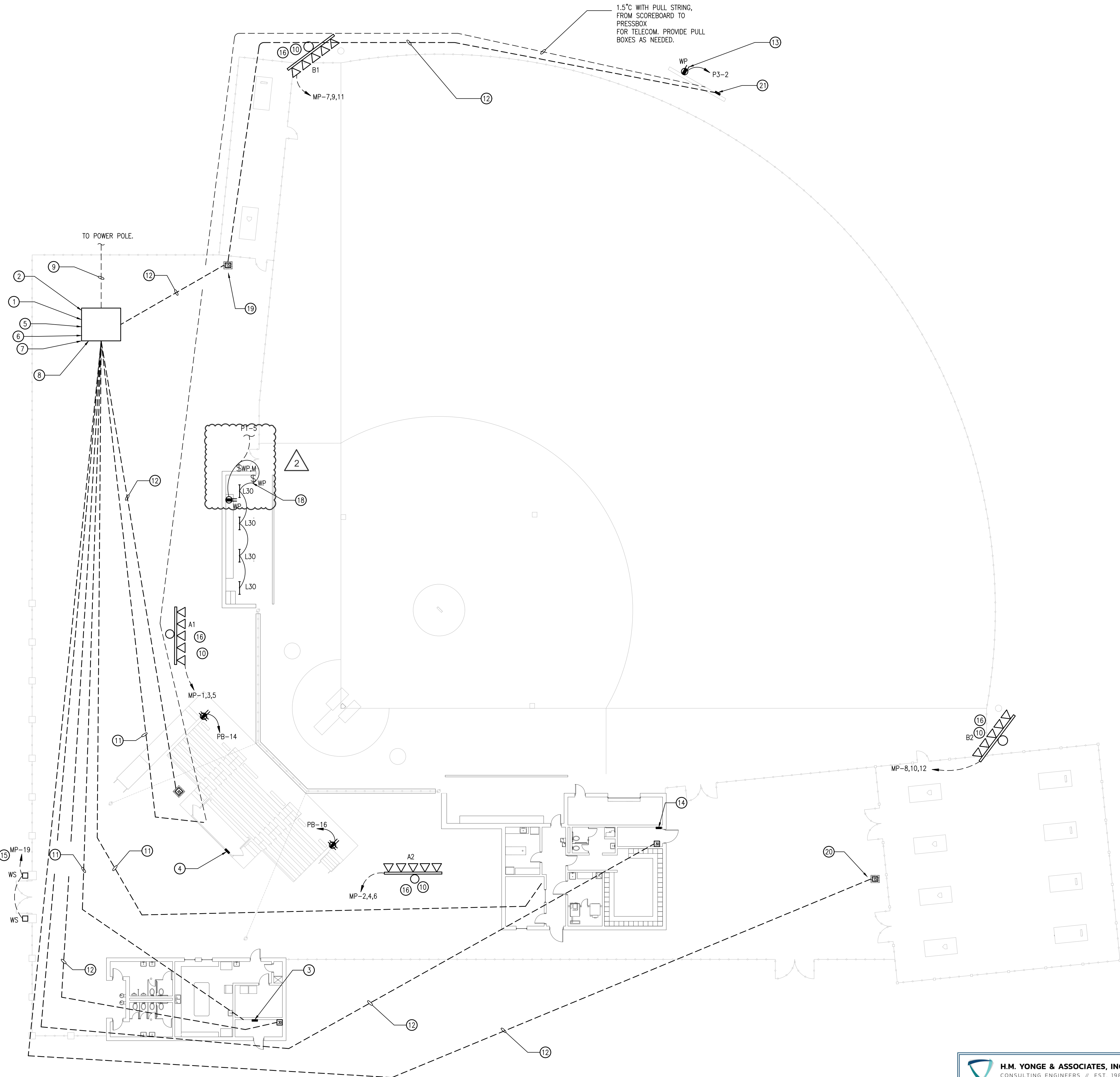
PROVIDE SCOREBOARD TELECOM WIRING AS REQUIRED BY SCOREBOARD MANUFACTURER. COORDINATE WITH MANUFACTURER FOR CONNECTION REQUIREMENTS. COORDINATE TERMINATION LOCATION WITH OWNER PRIOR TO ANY CONDUIT ROUGH-IN.

AS A BID OPTION THE CONTRACTOR SHALL SUBMIT A WIRELESS SCOREBOARD SYSTEM FOR OWNER REVIEW.

ALL POLE SITE LIGHTING HOMERUNS SHALL BE 3#10, #10G, 1.00"C.

ALL CONDUITS FOR ALL SYSTEMS SHALL BE ROUTED AROUND THE FIELD. CONTRACTOR SHALL NOT INSTALL CONDUITS UNDER THE FIELD.

P/A SYSTEM WIRING PROVIDED AND INSTALLED BY P/A CONTRACTOR. COORDINATE ALL TERMINATION LOCATIONS WITH P/A CONTRACTOR PRIOR TO ANY CONDUIT ROUGH-IN.



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SHEET TITLE : ELECTRICAL SITE PLAN - SOFTBALL FIELD

MCKEE JOB # : 23-199

DRAWN BY : CBP

DATE : JUNE 04, 2024

REVISED DATE : JULY 10, 2024

REVISED DATE : JULY 22, 2024

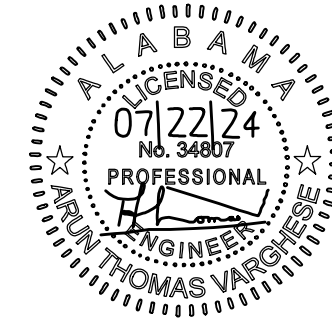
REVISED DATE :

SHEET NO. : **E1.1**



NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



**ELECTRICAL SITE PLAN - SOFTBALL FIELD**  
SCALE: 1/16"=1'-0"



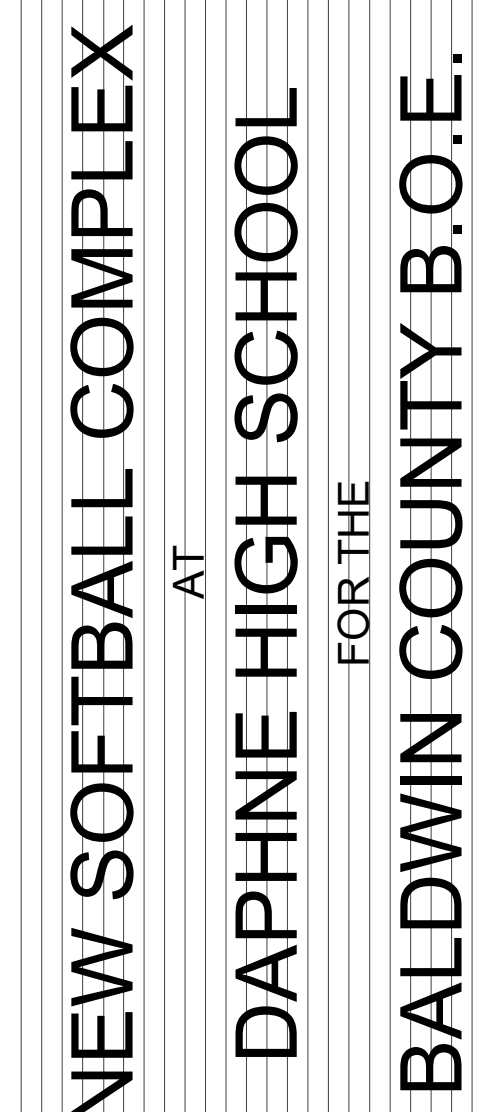


SCALE: 1/4"=1'-0"

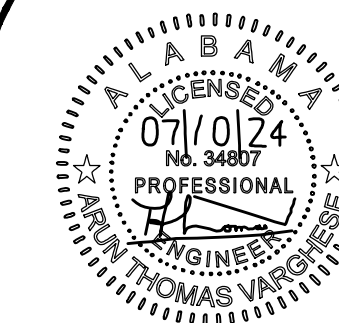
① ALL LIGHTING AND CONTROL SYSTEMS ALONG WITH ALL CONDUIT AND WIRING ARE PROVIDED AND INSTALLED BY THE BLEACHER MANUFACTURER. MANUFACTURER TO PROVIDE EXTERIOR AND INTERIOR EGRESS LIGHTING PER IBC IFC AND NFPA 101. PANELBOARD PROVIDED AND INSTALLED BY CONTRACTOR.



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



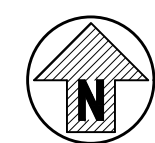
ARCHITECTS, INC.  
631 SOUTH HULL STREET MONTGOMERY · ALABAMA 36104 (334) 834-9933



REVISÉ DATE:

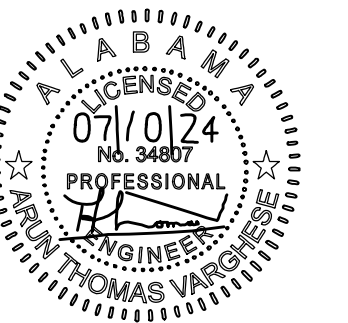
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**MCKEE and ASSOCIATES**  
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SHEET NO.: **E1.3**





NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

McKee and Associates  
ARCHITECTS, INC.

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SHEET TITLE : POWER PLAN - CONCESSION / TOILET BUILDING

MCKEE JOB # : 23-199

DRAWN BY : CBP

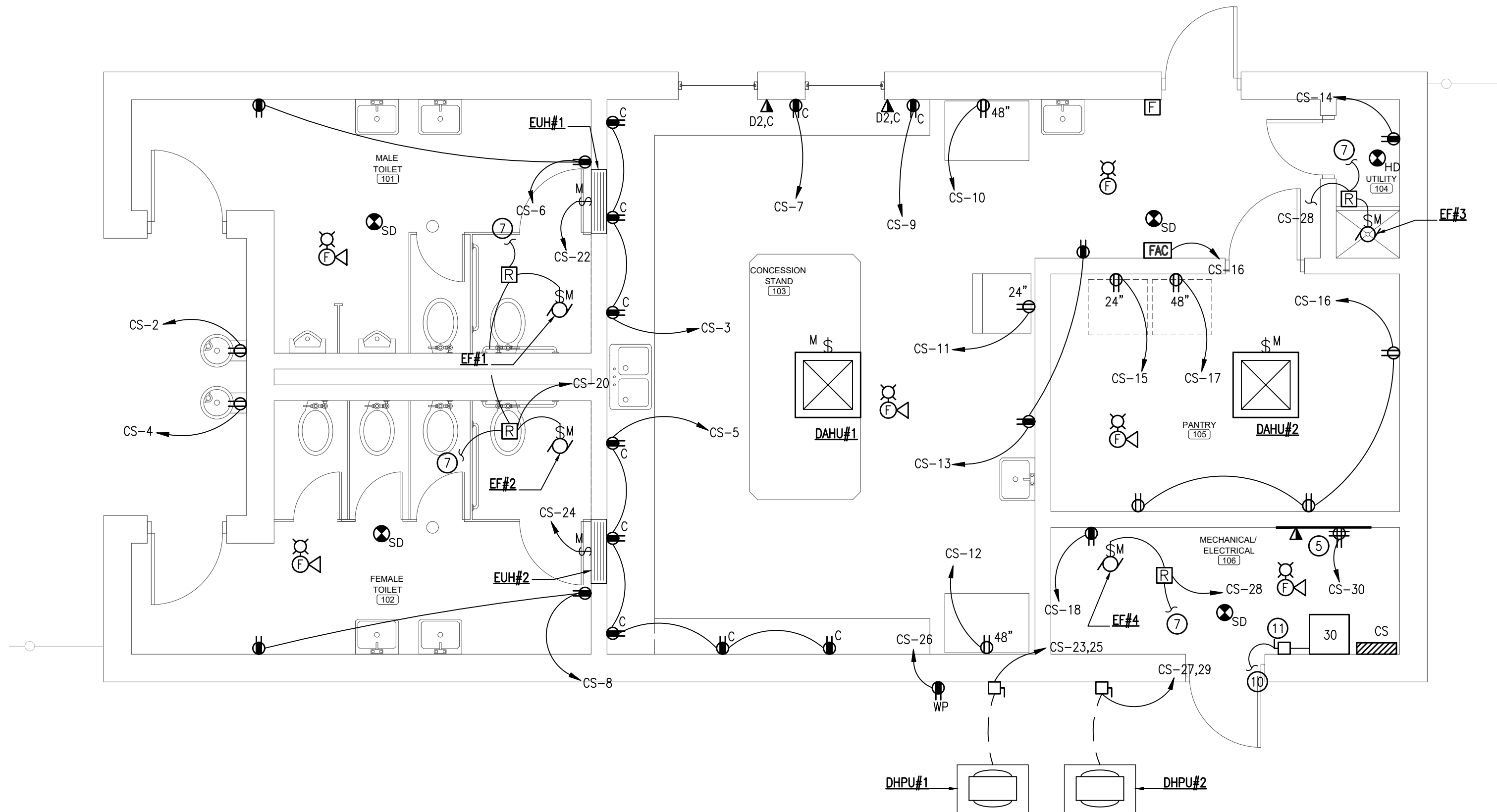
DATE : JUNE 04, 2024

REVISED DATE : JULY 10, 2024

REVISED DATE :

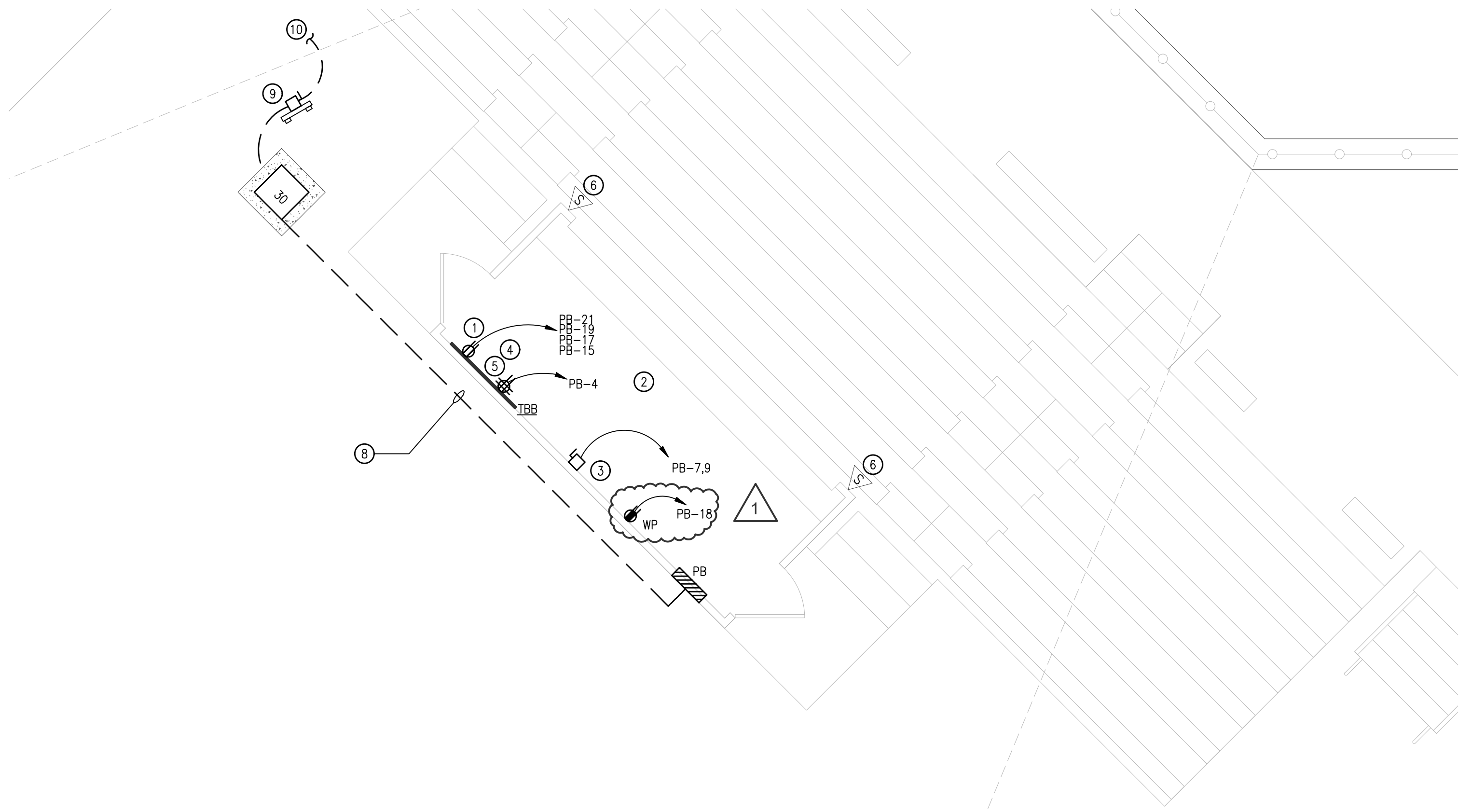
REVISED DATE :

SHEET NO. : E2.1



POWER PLAN - CONCESSION / TOILET BUILDING

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



POWER PLAN - BLEACHER PRESS BOX

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

GENERAL NOTE:

1. CONTRACTOR SHALL REFERENCE MECHANICAL/EQUIPMENT SCHEDULES FOR DISCONNECT AND CIRCUIT FEEDER SIZES.

ELECTRICAL PLAN KEYNOTES:

- 1 PROVIDE FOUR(4) DEDICATED 120VAC 20A RECEPTACLES WITH DEDICATED CIRCUITS AS INDICATED, FOR AUDIO EQUIPMENT RACK.
- 2 ALL POWER AND TELECOM ALONG WITH ALL CONDUIT AND WIRING ARE PROVIDED AND INSTALLED BY THE BLEACHER MANUFACTURER (UNLESS NOTES OTHERWISE). PANELBOARD AND TELECOM HEADEND EQUIPMENT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 3 HVAC UNIT PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE ALL ELECTRICAL CONNECTIONS AND EQUIPMENT AS INDICATED.
- 4 TELECOM HEADEND EQUIPMENT AND CONNECTIONS PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE ALL ELECTRICAL CONNECTIONS AND EQUIPMENT AS INDICATED.
- 5 3/4"D PLYWOOD BACKBOARD PROVIDE 6" CLEARANCE ABOVE FLOOR. BACKBOARD SHALL BE AC EXTERIOR GRADE PLYWOOD, FINISH WITH TWO COATS FIRE RETARDANT SEMI-GLOSS ENAMEL PAINT, COLOR BATTLESHIP GREY. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSH WITH BACKBOARD. PROVIDE #6 GROUND IN 1" EMT CONDUIT FROM MAIN ELECTRICAL PANEL TO BACKBOARD, COIL 10' SLACK AT BACKBOARD, PROVIDE INSULATED GROUNDING BUSHING. COORDINATE GROUND TERMINATION WITH COMMUNICATIONS CONTRACTOR, PROVIDE TERMINATIONS AS REQUIRED. PROVIDE GROUND BUS BAR (HARGER GBI SERIES 1/4"x4"x12") MOUNTED 12" AFF. COORDINATE EXACT LOCATION OF THE GROUND BUS BAR WITH COMMUNICATIONS CONTRACTOR PRIOR TO ANY ROUGH-IN. ALL COMMUNICATION EQUIPMENT, CONDUITS, ETC. SHALL BE GROUNDED WITH #6 AWG INSULATED GREEN COPPER GROUNDING CONDUCTOR TO GROUNDING BUS BAR. LOOPING GROUNDS SHALL NOT BE PERMITTED.
- 6 LOUD SPEAKER TO BE INSTALL AT TOP OF PRESSBOX. CONTRACTOR TO PROVIDE 1/2"Ø WITH PULL STRING FROM HEADEND LOCATION TO SPEAKER. PROVIDE SPEAKER BACKBOX AS REQUIRED. COORDINATE WITH SPEAKER INSTALLER FOR ALL ROUGH-IN LOCATIONS AND REQUIREMENTS.
- 7 INTERLOCK EXHAUST FAN WITH LOCAL ROOM LIGHT SWITCH. COORDINATE INTERLOCKING REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 8 ROUTE CONDUIT DOWN TO GROUND, AND TO TRANSFORMER. SEE RISER DIAGRAM FOR CONDUIT AND FEEDER SIZE.
- 9 NEMA 3R DISCONNECT MOUNTED TO GALVANIZED UNISTRUT FRAME. SEE RISER DIAGRAM.
- 10 TO NEW TRANSFORMER IN POWER/TELECOM UTILITY AREA. SEE SITE PLAN.
- 11 NEW NEMA 3R DISCONNECT, WALL MOUNTED. SEE RISER DIAGRAM.



NEMA 3R, SURFACE MOUNT										65,000 AIC RATING	
NEW PANEL MP SCHEDULE											
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP		KVA	BREAKER AMP POLE		LOAD DESCRIPTION	CKT NO.			
1	FIELD LIGHTS A1	3	20	5.9	5.9	20	3	FIELD LIGHTS A2		2	
3										4	
5										6	
7	FIELD LIGHTS B1	3	20	6.2	6.7	20	3	FIELD LIGHTS B2		8	
9										10	
11										12	
13	PANEL CS THRU XFRMR	3	60	21.4	12.6	60	3	PANEL FH THRU XFRMR		14	
15										16	
17										18	
19	GATE LIGHTS	1	20	0.2	16.1	60	3	PANEL PB THRU XFRMR		20	
21	SPARE	1	20	·						22	
23	SPARE	1	20	·						24	
25	PANEL P1 THRU XFRMR	3	30	6.6	2.8	30	3	PANEL P2 THRU XFRMR		26	
27										28	
29										30	
CONNECTED LOAD					84.8	KVA					

NEMA 1, RECESSED MOUNTNEW PANEL PB SCHEDULE										10,000 AIC	
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP		KVA		BREAKER AMP POLE		LOAD DESCRIPTION	CKT NO.		
1	RECEPTACLE	1	20	0.2	0.2	20	1	RECEPTACLE	2		
3	RECEPTACLE	1	20	0.2	1.2	20	1	TBB REC	4		
5	PRESSBOX FRONT REC	1	20	0.4	0.4	20	1	PRESSBOX FRONT REC	6		
7	PWHPU#1	2	30	4.8	0.4	20	1	PRESSBOX FRONT REC	8		
0.2					20	1	LTG PRESSBOX INTERIOR	10			
11	SPARE	1	20	·	0.1	20	1	LTS PRESSBOX EXTERIOR	12		
13	SPARE	1	20	·	0.4	20	1	BLEACHER RECS	14		
15	PA SYSTEM	1	20	1.8	0.4	20	1	BLEACHER RECS	16		
17	PA SYSTEM	1	20	1.8	0.2	20	1	HVAC RECEPTACLE	18		
19	PA SYSTEM	1	20	1.8	·	20	1	SPARE	20		
21	PA SYSTEM	1	20	1.8	·	20	1	SPARE	22		
23	SPARE	1	20	·	·	20	1	SPARE	24		
25	SPARE	1	20	·	·	20	1	SPARE	26		
27	SPARE	1	20	·	·	20	1	SPARE	28		
29	SPARE	1	20	·	·	20	1	SPARE	30		
31	SPARE	1	20	·	·	20	1	SPARE	32		
33	SPARE	1	20	·	·	20	1	SPARE	34		
35	SPARE	1	20	·	·	20	1	SPARE	36		
37	SPARE	1	20	·	·	20	1	SPARE	38		
39	SPARE	1	20	·	·	20	1	SPARE	40		
41	SPARE	1	20	·	·	20	1	SPARE	42		
CONNECTED LOAD 16.3 KVA											

NEMA 1, SURFACE MOUNT										NEW PANEL CS SCHEDULE										10,000 AIC RATING	
100A M.B. 208Y/120V 3ø 4W																					
CKT NO.	LOAD DESCRIPTION				BREAKER POLE AMP		KVA		BREAKER AMP POLE		LOAD DESCRIPTION				CKT NO.						
1	LIGHTING				1	20	1.0	1.2	20	1	EWC				(G)	2					
3	CONCESSION COUNTER RECS				1	20	0.6	1.2	20	1	EWC				(G)	4					
5	CONCESSION COUNTER RECS				1	20	1.0	0.4	20	1	MALE RECS					6					
7	POS STATION				1	20	0.4	0.4	20	1	FEMALE RECS					8					
9	POS STATION				1	20	0.4	1.0	20	1	BEVERAGE COOLER				(G)	10					
11	ICE MACHINE				(G)	1	20	1.0	1.0	20	1	BEVERAGE COOLER				(G)	12				
13	CONVENIENCE RECS				1	20	0.4	0.2	20	1	UTILITY REC					14					
15	FREEZER				(G)	1	20	1.0	0.6	20	1	PANTRY RECS					16				
17	REFRIGERATOR				(G)	1	20	1.0	0.2	20	1	MECH ROOM REC					18				
19	EXTERIOR DOWNLIGHTS				1	20	0.2	0.4	20	1	RESTROOM EXHAUST FANS					20					
21	EXIT DISCHARGE LIGHTS				1	20	0.2	·	20	1	EUH#1					22					
23	DHPU/DAHU#1				2	30	3.3	·	20	1	EUH#2					24					
0.2								20	1	HVAC RECEPTACLE					26						
25	DHPU/DAHU#2				2	30	3.3	0.4	20	1	UTILITY/MECH ROOM EXHAUST FANS					28					
0.4								20	1	TBB					30						
31	UTILITY AREA RECEPTACLE				1	20	0.2	1.0	20	1	FACP				(L)	32					
33	SPARE				1	20	·	·	20	1	SPARE					34					
35	SPARE				1	20	·	·	20	1	SPARE					36					
37	SPARE				1	20	·	·	20	1	SPARE					38					
39	SPARE				1	20	·	·	20	1	SPARE					40					
41	SPARE				1	20	·	·	20	1	SPARE					42					
CONNECTED LOAD										22.6		KVA									
(G) INDICATES GFCI TYPE BREAKER. (L) INDICATES LOCKABLE CIRCUIT BREAKER.																					

NEMA 1, SURFACE MOUNT										NEW PANEL FH SCHEDULE										10,000 AIC RATING									
CKT NO.	LOAD DESCRIPTION				BREAKER POLE AMP		KVA		BREAKER AMP POLE		LOAD DESCRIPTION				CKT NO.														
1	INTERIOR LIGHTING				1	20	1.0	0.2	20	1	MECH RM REC				2														
3	EWC				(G)	1	20	1.0	0.2	20	1	BATHROOM REC				4													
5	EWC				(G)	1	20	1.0	0.4	20	1	LAUNDRY COUNTER RECS				6													
7	VESTIBULE RECS					1	20	0.6	2.2	15	3	GAS DRYER				8													
9	LOCKER RM RECS					1	20	0.8								10													
11	OFFICE RECS					1	20	1.0								12													
13	TRAINING COUNTER RECS					1	20	0.4	0.6	20	1	STORAGE RECS				14													
15	TRAINING COUNTER REC					1	20	0.2	0.4	20	1	DUGOUT RECS				16													
17	REFRIGERATOR				(G)	1	20	0.4	0.2	20	1	EXTERIOR LIGHTING				18													
19	REFRIGERATOR				(G)	1	20	0.4	0.2	20	1	HVAC RECEPTACLE				20													
21																22													
23	AHU#1					3	20	·	·	20	3	AHU#2				24													
25																26													
27																28													
29	HPU#1					3	20	·	·	20	3	HPU#2				30													
31																32													
33	TBB					1	20	0.4	0.4	20	1	EXHAUST FANS				34													
35	FACP				(L)	1	20	1.0	·	20	1	SPARE				36													
37									·	20	1	SPARE				38													
39	WASHER					3	50	14.8	·	20	1	SPARE				40													
41									·	20	1	SPARE				42													
CONNECTED LOAD										27.8		KVA																	
(G) INDICATES GFCI TYPE BREAKER. (L) INDICATES LOCKABLE CIRCUIT BREAKER.																													

NEMA 3R										NEW PANEL P1 SCHEDULE										10,000 AIC RATING									
60A M.B. 208Y/120V 3ø 4W																													
CKT NO.		LOAD DESCRIPTION				BREAKER POLE		AMP		KVA		BREAKER AMP		POLE		LOAD DESCRIPTION				CKT NO.									
1		BULLPEN LIGHTS				1		20		0.5		0.2		20		1		BULLPEN RECEPTACLE				2							
3		SPARE				1		20		·		·		20		1		SPARE				4							
5		VISITORS DUGOUT LIGHTS				1		20		0.6		0.4		30		2		LOAD CENTER P3				6							
7		SPARE				1		20		·				30		2						8							
9		SPARE				1		20		·		·		20		1		SPARE				10							
11		SPARE				1		20		·		·		20		1		SPARE				12							
CONNECTED LOAD										1.7										KVA									

NEMA 3R					NEW PANEL P2 SCHEDULE					10,000 AIC RATING	
60A M.B. 208Y/120V 3ø 4W											
CKT NO.	LOAD DESCRIPTION	BREAKER POLE		AMP	KVA	BREAKER AMP POLE		LOAD DESCRIPTION	CKT NO.		
1	BULLPEN LIGHTS	1	20	0.5	0.2	20	1	BULLPEN RECEPTACLE	2		
3	BULLPEN LIGHTS	1	20	0.5	0.2	20	1	BULLPEN RECEPTACLE	4		
5	BULLPEN LIGHTS	1	20	0.5	0.2	20	1	BULLPEN RECEPTACLE	6		
7	BULLPEN LIGHTS	1	20	0.5	0.2	20	1	BULLPEN RECEPTACLE	8		
9	SPARE	1	20	-	-	20	1	SPARE	10		
11	SPARE	1	20	-	-	20	1	SPARE	12		
CONNECTED LOAD					2.8	KVA					

2

NEMA 3R										NEW LOAD CENTER P3 SCHEDULE										10,000 AIC RATING													
30A M.B. 208Y/120V 1Ø 3W																																	
CKT NO.	LOAD DESCRIPTION													BREAKER POLE AMP		KVA		BREAKER AMP POLE		LOAD DESCRIPTION													CKT NO.
1	SCOREBOARD													1	20	0.2	0.2	20	1	WIRELESS RECEIVER REC													2
3	SPARE													1	20	-	-	20	1	SPARE													4
5	SPARE													1	20	-	-	20	1	SPARE													6
CONNECTED LOAD																0.4		KVA															




H.M. YONGE & ASSOCIATES, INC.

CONSULTING ENGINEERS // EST. 1988

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NEW SOFTBALL COMPLEX

AT

DAPHNE HIGH SCHOOL

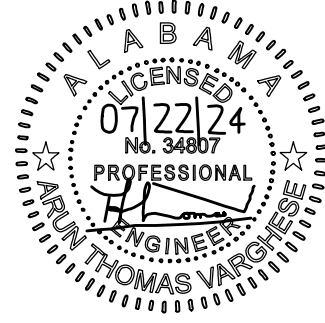
FOR THE

BALDWIN COUNTY B.O.E.

McKee and Associates

ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ELECTRICAL SCHEDULES

McKee JOB # : 23-199

DRAWN BY : CBP

DATE: JUNE 04, 2024

REVISED DATE: JULY 10, 2024

REVISED DATE: JULY 22, 2024

REVISED DATE:

SHEET NO. : E3.1





NEW SOFTBALL COMPLEX  
AT  
DAPHNE HIGH SCHOOL  
FOR THE  
BALDWIN COUNTY B.O.E.

McKee and Associates  
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ELECTRICAL RISER DIAGRAM

McKee JOB # : 23-199

DRAWN BY : CBP

DATE : JUNE 04, 2024

REVISED DATE : JULY 10, 2024

REVISED DATE :

REVISED DATE :

SHEET NO. : E3.2

NOTE: ALL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE PROVIDED WITH A LABEL IN ACCORDANCE WITH NEC 110.16. THE EQUIPMENT MANUFACTURER SHALL PROVIDE AN ARC FLASH HAZARD ANALYSIS TO DETERMINE THE LEVEL OF PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED FOR EACH PIECE OF EQUIPMENT. LABEL SHALL INCLUDE:

1. AT LEAST ONE OF THE FOLLOWING:
  - A. AVAILABLE INCIDENT ENERGY AND THE CORRESPONDING WORKING DISTANCE
  - B. MINIMUM ARC RATING OF CLOTHING
  - C. REQUIRED LEVEL OF PPE
  - D. HIGHEST HAZARD/RISK CATEGORY (HRC) FOR THE EQUIPMENT
2. NOMINAL SYSTEM VOLTAGE
3. ARC FLASH BOUNDARY

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE THE OVER CURRENT PROTECTION FOR THE SPECIFIC HVAC EQUIPMENT MEETS THE MANUFACTURER AND THE NATIONAL ELECTRICAL CODE REQUIREMENTS.

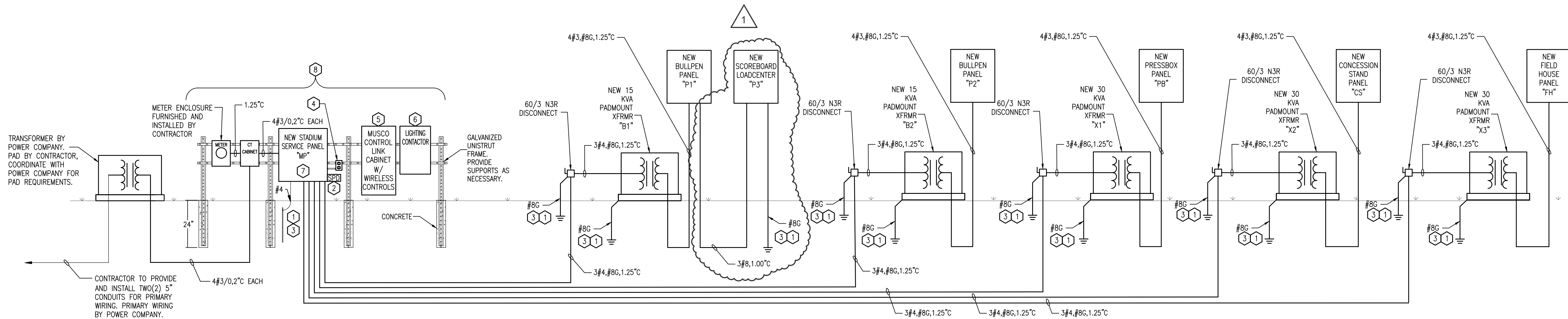
THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS WITH ORIGIN OF POWER SUPPLY. VIA MECHANICALLY FASTENED PHENOLIC LABEL.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT AS FOLLOWS PER NEC 110.24:

"Panel XX"  
"Maximum available fault current = ###,### Amps"  
"Month DD, Year"

THE LABEL SHOULD BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS IN AREA OF WORK THAT ARE TO REMAIN TO INDICATE ORIGIN OF POWER SUPPLY.



SINGLE LINE DIAGRAM – FOOTBALL STADIUM  
SCALE: NOT TO SCALE

SINGLE LINE DIAGRAM – FOOTBALL STADIUM: KEYNOTES

- 1 GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.
- 2 SURGE PROTECTION DEVICE SERVICE ENTRANCE RATED CATEGORY "C" 10-MODE 240KA PER PHASE.
- 3 PROVIDE 3/4" X 20' GROUND ROD. ALL GROUNDING AND BONDING SHALL BE COPPER.
- 4 PROVIDE 120VAC 20A WEATHERPROOF GFCI OUTLET. OUTLET TO BE FED FROM CONCESSION BUILDING PANEL CS-31. PROVIDE 0.75" CONDUIT, 2#10, #10G WIRING.
- 5 ALL SITE BALL FIELD LIGHTING CIRCUITS SHALL BE ROUTED THROUGH CABINET. COORDINATE WITH MUSCO FOR CONNECTION REQUIREMENTS.
- 6 PROVIDE INTERMATIC ET2000 TIME CLOCK IN NEMA 3R ENCLOSURE. PROVIDE INTERMATIC EK4236S PHOTOCELL. PROVIDE EATON ECL-03-C-2-B-2-A-S3 CONTACTOR. PHOTOCELL SHALL TURN LIGHTS ON AT DUSK FOR LIGHTING ZONES "A" AND "B". TIME CLOCK SHALL TURN OFF ZONE "B" FROM 10:00AM-6:00AM.
- 7 PANEL SHALL BE PROVIDED WITH INTEGRAL ES0FSA METER TO MONITOR ALL FEEDERS. PROVIDE AH02/03/04 FUSE PACKS AND E6830502 CURRENT TRANSUDCERS AS REQUIRED. COORDINATE WITH MANUFACTURER FOR REQUIREMENTS.
- 8 ALL SERVICE EQUIPMENT SHALL BE INSTALLED ADJACENT TO THE UTILITY TRANSFORMER. SEE KEYNOTE #2 SHEET E0.1 FOR TRANSFORMER LOCATION.

