



Date: December 8, 2023
To: Greg Campbell
Design Innovation Architects - DIA
402 S. Gay Street, Suite 201
Knoxville, TN 37902
RE: Approval of Plans
Anderson County Sports Training Facility
130 Maverick Cir
Clinton, TN 37716

TFM # 03970-F
Project # 2023-10-18-02
County: Anderson

Dear Mr. Campbell,

The construction documents submitted to our office for the above referenced project have been reviewed for compliance with the minimum standards for fire prevention, fire protection, and building construction safety of the *Rules of Tennessee Department of Commerce and Insurance, Division of Fire Prevention, Chapter 0780-02-02, Codes and Standards*.

This is a public building. Therefore, it is subject to Tenn. Code Ann. § 68-102-201, et seq., the Tennessee Public Building Accessibility Act. It has been reviewed for compliance with the 2010 ADA Standards for Accessible Design. It has not been reviewed for compliance with the Americans with Disabilities Act.

Plans are approved with the following stipulation (1), field verifications (x), and/or notes (x):

Stipulation:

Complete sprinkler shop drawings with calculations and manufacturer cut sheets showing listing of fire protection systems must be submitted by a Tennessee registered sprinkler system contractor for review and approval prior to installation in accordance with Rule 0780-2-7-.09. The sprinkler shop drawings, calculations, & manufacture's cut sheet package must be reviewed and approved by the fire protection engineer of record (processed with the engineers shop drawing review stamp) prior to the submittal to the State Fire Marshal's Office. All piping from the *point of service* including underground used for sprinkler or standpipe must be installed by a Tennessee registered sprinkler contractor. Rule 0780-2-.08

Note that stipulations must be satisfied by sealed construction documents before such work is performed. A Certificate of Occupancy (CO) will not be issued if stipulations are not satisfied. Rule 0780-02-03-.09.



FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

No approval of plans, or failure to review, plans, and specifications by the Division shall relieve the owner, developer, contractor, or designing architect or engineer of their respective responsibilities for compliance with applicable codes respecting fire prevention, fire protection, and building construction. Rule 0780-02-03-.05.

Approved plans are available electronically at <https://apps.tn.gov/tnsfmo/>. They must be printed with all markups and stamps and placed at the project site prior to construction. They shall be available to the State Fire Marshal's Office inspector and retained until a CO has been issued by the Division. Failure to have the plans at the site and available to the inspector may be grounds for a Stop Work Order to be issued. Rule 0780-02-03-.05.

All subsequent construction document revisions that impact the approved plan's fire prevention, fire protection, or building construction safety must be submitted to this office for review and approval. Rule 0780-02-03-.02.

New buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. Emergency responder radio coverage must be verified in the field prior to the issuance of a CO. The test should be performed by the local fire department after interior and exterior walls and the roof are constructed.

The project's contractor must contact the Tennessee State Fire Marshal's Office inspector prior to construction to ensure that the proper inspections are performed.

Engineered wood truss drawings and/or engineered steel joist drawings must be submitted for approval to the architect or engineer of record prior to installation. Engineer's approval should be verified by one of the following:

- signed and dated Shop Drawing Review Stamp, or
- signed and dated letter stating acceptance

A CO will be issued after work is completed and all inspections are performed and satisfied. The building must have a CO before it may be occupied. Rule 0780-02-03-.10.

Sincerely,



Jason D. Thompson, Plans Examiner II
Codes Enforcement Section

cc: John Ferguson, SFMO Fire & Building Code Inspector

Attachment: Requirements for Inspections of Construction (3 Pages)
Approved Drawing Set (43 Pages)

Approval: Occupancy Type E, 1 Story, Construction Type-II B, Sprinklered

THESE PLANS AND SPECIFICATIONS
ARE REQUIRED TO BE KEPT ON THE
PROJECT SITE UNTIL A FINAL CERTIFICATE
OF OCCUPANCY FORM IS ISSUED BY
THIS OFFICE.
Modifications, additions, deletions or
omissions of any kind are allowed to this
approved set without written permission
of this office.
TENNESSEE STATE FIRE MARSHAL'S OFFICE

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

Inspection Information for Construction

This document provides information to assist contractors with State Fire Marshal's Office inspections. Many building projects have multiple Authorities Having Jurisdiction and consultation with those authorities is needed to meet their requirements. This is not a code checklist. It contains information pertinent to most new building projects; however, additional requirements may apply depending on the specific circumstances of each individual project.

SITE CONSTRUCTION DOCUMENTS

1. State Fire Marshal's Office (SFMO) approved architectural plans must be at the site before construction begins and must remain there until a Certificate of Occupancy is issued;
2. Grading and site preparation may begin prior to plan approval;
3. If a fire sprinkler system is installed, approved sprinkler plans must be on site prior to installation of underground or aboveground piping;
4. If a commercial kitchen hood and duct system is installed, the design intent must be on the approved plans. Shop drawings do not require approval;
5. A copy of the Tennessee contractor's license must be available for all bids over \$25,000;
6. A copy of the Tennessee electrician's license must be available;
7. A copy of the Tennessee fire alarm contractor's license must be available where fire alarm work is performed or a written exemption certificate from the contractor's board. All fire alarm work including wiring, installation of components, etc. must be done by a fire alarm contractor or exempted electrical contractor;
8. A copy of the Tennessee licensed portable or fixed fire suppression contractor's license must be available for applicable work;
9. A copy of the Tennessee licensed fire sprinkler contractor's license must be available for all work beginning at the Point of Service (where water is used solely for fire protection). This includes underground water lines used solely for fire protection.

FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

1. Fire department access roads and lanes must be provided. Fire hydrants must be provided before combustible materials are on site;
2. Buildings four (4) or more stories in height shall be provided with at least one (1) standpipe. Standpipes shall be operational when the building is 40 feet above the lowest level of fire department access. Fire department hose connections must be at accessible locations adjacent to usable stairs. Standpipes shall be extended as construction progresses to within one (1) floor of the highest point of construction having secured decking or flooring;
3. Stairways are required where the building is constructed to 50 feet or four (4) stories;
4. Required means of egress for existing buildings must be maintained during construction.

Inspection Information for Construction

REVISIONS TO APPROVED PLANS

The building must be built according to the State Fire Marshal approved plans. Change orders, revisions, etc. that impact building, fire or life safety of the project cannot be made until the revisions are approved in writing and the plans are at the site.

INSPECTIONS

Contact your local SFMO inspector at least five (5) days prior to an inspection. Failure to schedule an inspection may result in costly repairs from exposing covered construction, or a Certificate of Occupancy not being issued. Inspections are required for:

1. **Foundation:** Inspections are required after poles or piers are set or trenches or basement areas are excavated and any required forms erected and any required reinforcing steel is in place and supported prior to the placing of concrete. The foundation inspection shall include excavations for thickened slabs intended for the support of bearing walls, partitions, structural supports, equipment and special requirements for wood foundations. Proper dimensions, installation and size of re-bar must be determined to be compliant by SFMO inspector or a 3rd party inspection service before pouring;
2. **Fire Sprinkler Underground:** Inspections are required after bedding, piping and thrust blocks prior to backfill. Hydro-static tests must be performed and documented. The SFMO inspector must witness the test unless other arrangements are made with the inspector;
3. **Framing:** Inspections are required after roof, framing, fire stopping, draft stopping, bracing, rough-in plumbing, rough-in mechanical and rough-in electrical are in place, and prior to covering walls or ceilings;
4. **Fire Rated Wall/Roof/Ceiling Assemblies:** Inspections are required after drywall, spray applied foam or other system are applied;
5. **Above-Ceiling:** Inspections are required before ceiling installation and after fire sprinkler, final mechanical, final plumbing, fire stopping systems, fire dampers, electrical fire rated wall/floor/ceiling assemblies are in place;
6. **Final:** Inspections are required after all work is complete. The contractor must provide a worker for operation of fire or smoke damper testing, duct mounted smoke detectors, fire alarm devices, test and balance of commercial kitchen hood and duct units, operation of smoke evacuation/management systems. All systems must be operational and the subcontractors must test all systems prior to the final inspection;
7. **Functional tests and documents needed to pass the final inspection** are:
 - a. When required, foundation inspection reports performed by 3rd party inspection services;
 - b. Final electrical inspection approval;
 - c. Functional testing of generator used for life safety systems;
 - d. Functional test of exit signs and emergency lighting to include all means of egress areas and exit discharge to public way. Functional testing to be observed by SFMO inspector;
 - e. Boiler inspections and tagging;
 - f. Functional test of commercial kitchen hood and duct and suppression systems to include: light test,

Inspection Information for Construction

- “puff” test, energy shut-down test, capture and containment test and air balance report. Functional testing to be observed by SFMO inspector;
- g. Functional test of fire alarm and Fire Alarm and Emergency Communication System Inspection and Testing Form per 2010 NFPA 72. Functional testing to be observed by SFMO inspector;
 - h. Functional test of fire sprinkler system and test reports and documentation for underground and aboveground systems. Functional testing to be observed by SFMO inspector;
 - i. Functional test of fire pumps and standpipes and acceptance test reports and documentation. Functional testing to be observed by SFMO inspector;
 - j. Functional test of smoke control systems acceptance test reports and documentation. Functional testing to be observed by SFMO inspector;
 - k. Test and balance reports for commercial HVAC systems;
 - l. Functional testing of shut-down test for HVAC units where applicable. Functional testing to be observed by SFMO inspector;
 - m. Functional testing of access controlled or delayed egress door hardware. Functional testing to be observed by SFMO inspector;
 - n. Elevator approval and acceptance test reports from the state elevator inspector;
 - o. For premanufactured metal buildings or metal framed buildings, inspection reports of structural welds and fastening devices by 3rd party inspection services;
 - p. Emergency responder radio coverage: New buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This shall not require improvement of the existing public safety communication systems. The test should be performed by the local fire department after interior and exterior walls and the roof are constructed;
 - q. Inspection test reports and documentation for applications of fire retardant coatings;
 - r. For gated communities, functional test of security gate or barrier showing they are capable of receiving signals from emergency responders and allowing access.

Disclaimer: This document was developed by the Code Enforcement Section of the Tennessee Department of Commerce and Insurance. To the best of our knowledge, information contained in this document is accurate and reliable as of the date of release; however, we do not assume any liability for the accuracy or completeness.



Department of Commerce and Insurance
Authorization No. 335485 • 0 copies • September, 2018
This public document was promulgated at a cost of \$35.00





This building has been reviewed for significant items of the standard(s) adopted in the Tennessee Public Building Accessibility Act. It has not been reviewed for compliance with the Americans with Disabilities Act.

FIRE STOPPING REQUIREMENT
Fire stopping methods and materials employed on the job site may not deviate from the approved systems detailed within this approved set.

Fire sprinkler shop drawings must be submitted to the Division of Fire Prevention, Codes Enforcement Section, for review and approval prior to installation.

WATER SUPPLY TREATMENT.
Water supplies and environmental conditions shall be evaluated for the existence of microbes and conditions that contribute to microbiologically influenced corrosion (MIC). Where conditions are found that contribute to MIC, the owner(s) shall notify the sprinkler system installer and a plan shall be developed to treat the system using one of the following methods:
(1) Install a water pipe that will not be affected by the MIC microbes.
(2) Treat all water that enters the system using an approved biocide.
(3) Implement an approved plan for monitoring the interior conditions of the pipe at established time intervals and locations.

This document is not valid if a state fire marshal's seal and electronic signature or certification is not visible above.

OCCUPANT NOTIFICATION
Occupant notification shall be in accordance with IFC 907.2.7.1 and/or NFPA 101 9.6.3 with respect to type and number as required by applicable codes. The location of devices shall be installed per NFPA 72.

SHEET INDEX						
SHEET #	SHEET NAME	SHEET ISSUE DATE	CURRENT REV. NO.	REV. DESCRIPTION	REV. ISSUED BY	CURRENT REV. DATE
G000	COVER	2023-10-17	P2	PERMIT REV.	PERMITTING	2023-12-08
G000	PROJECT COVER REQUIREMENTS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
G100	COMCHECK	2023-11-10	P1	PERMIT REV.	PERMITTING	2023-11-10
G199	LEGENDS & ABBREVIATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
C101	SITE DEMOLITION PLAN	2023-10-17				
C102	SITE LAYOUT PLAN	2023-10-17				
C103	EROSION CONTROL - 1	2023-10-17				
C104	EROSION CONTROL - 2	2023-10-17				
C105	SITE GRADING PLAN	2023-10-17				
C106	SITE UTILITY PLAN	2023-10-17				
C201	SITE DETAILS - 1	2023-10-17				
C202	SITE DETAILS - 2	2023-10-17				
S001	STRUCTURAL NOTES	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
S101	FOUNDATION PLAN	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
S102	SECTIONS AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
AS101	ARCHITECTURAL SITE PLAN AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A101	FIRST FLOOR PLAN	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A102	ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A111	ROOF PLAN & DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A201	FIRST FLOOR RCP	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A201	EXTERIOR ELEVATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A301	BUILDING SECTIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A311	WALL SECTIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A321	PLAN AND SECTION DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A300	OPENING SCHEDULES AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
A600	3D DRAWINGS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
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FP001	PRELIMINARY HYDRAULIC CALCULATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
FP002	DETAILS & SPECIFICATIONS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
FP101	FIRST FLOOR PLAN - FIRE PROTECTION	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
P101	FIRST FLOOR PLAN - WASTE	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
P201	FIRST FLOOR PLAN - WATER AND GAS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
M001	SCHEDULES	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
M101	FIRST FLOOR PLAN - HVAC	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
E101	FLOOR PLAN - LIGHTING	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
E102	FLOOR PLAN - ELECTRICAL	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
E201	LEGENDS AND SCHEDULES	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
S10	RESOURCE	2023-09-05	P2	PERMIT REV.	PERMITTING	2023-12-08

PROJECT TEAM / CONSULTANTS

CLIENT:
ANDERSON COUNTY SCHOOLS
PHONE: (865) 451-4205
180 MAVERICK CIRCLE
CLINTON, TENNESSEE 37716
CONTACT: CLAY MCKAMEY

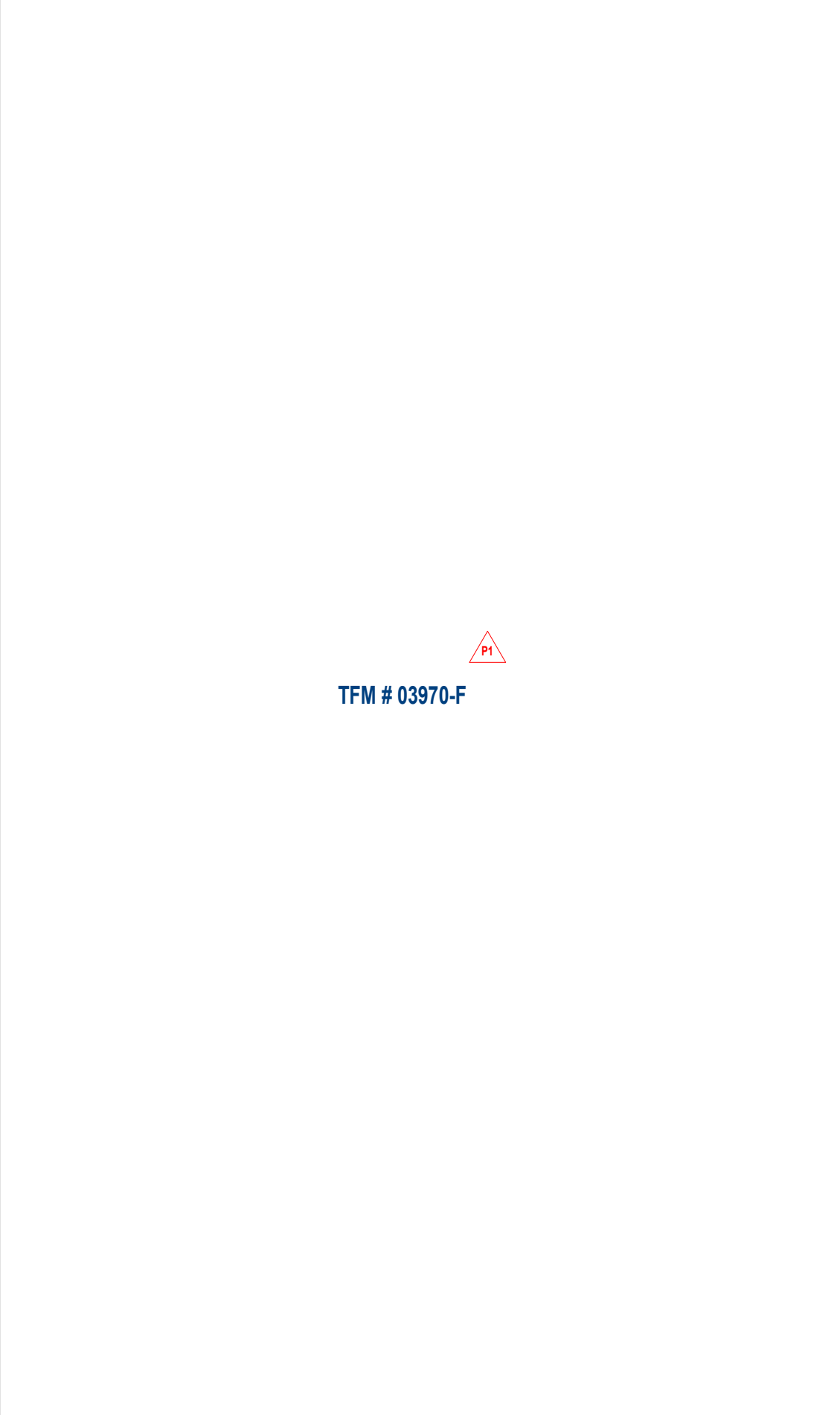
ARCHITECTURAL:
DESIGN INNOVATION ARCHITECTS, INC.
PHONE: (865) 637-8540
402 S GAY STREET, SUITE # 201
KNOXVILLE, TN 37902
CONTACT: GREG CAMPBELL

CIVIL ENGINEER:
WILL ROBINSON & ASSOCIATES
PHONE: (865) 386-4200
1248 NORTH SHOREWOOD LN
CARYVILLE, TN 37714
CONTACT: WILL ROBINSON

STRUCTURAL ENGINEER:
FE DESIGN AND ENGINEERING
PHONE: (865) 216-8960
5105 CUSTIS LN
KNOXVILLE, TN 37920
CONTACT: MARY FRENCH

MECHANICAL AND PLUMBING:
BEDINGER CONSULTING ENGINEERS
PHONE: (865) 637-8339
5641 MERCHANTS CENTER BLVD, SUITE A104
KNOXVILLE, TN 37912
CONTACT: DAVID BLAKEY

ELECTRICAL:
VRELAND ENGINEERS
PHONE: (865) 745-4402
3107 SUTHERLAND AVENUE, P.O. BOX 10648
KNOXVILLE, TN 37939
CONTACT: AARON LOVE



ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

FIELD SET

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

PROJECT# 2023-10-18-02

TFM# 03970-F

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
P2	PERMITTING	2023-12-08

COVER

G000

PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC):

Table containing IECC Chapter 1: SCOPE & ADMINISTRATION, IECC Chapter 2: DEFINITIONS, IECC Chapter 3: GENERAL REQUIREMENTS, and IECC Chapter 4: COMMERCIAL ENERGY EFFICIENCY.

SPRINKLER PROTECTION and SEISMIC REQUIREMENTS

BUILDING TO BE EQUIPPED THROUGHOUT WITH AND AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1. REFER TO FIRE PROTECTION DRAWINGS. MECHANICAL AND PIPING BRACING IS NOT REQUIRED IN THIS SEISMIC DESIGN CATEGORY...

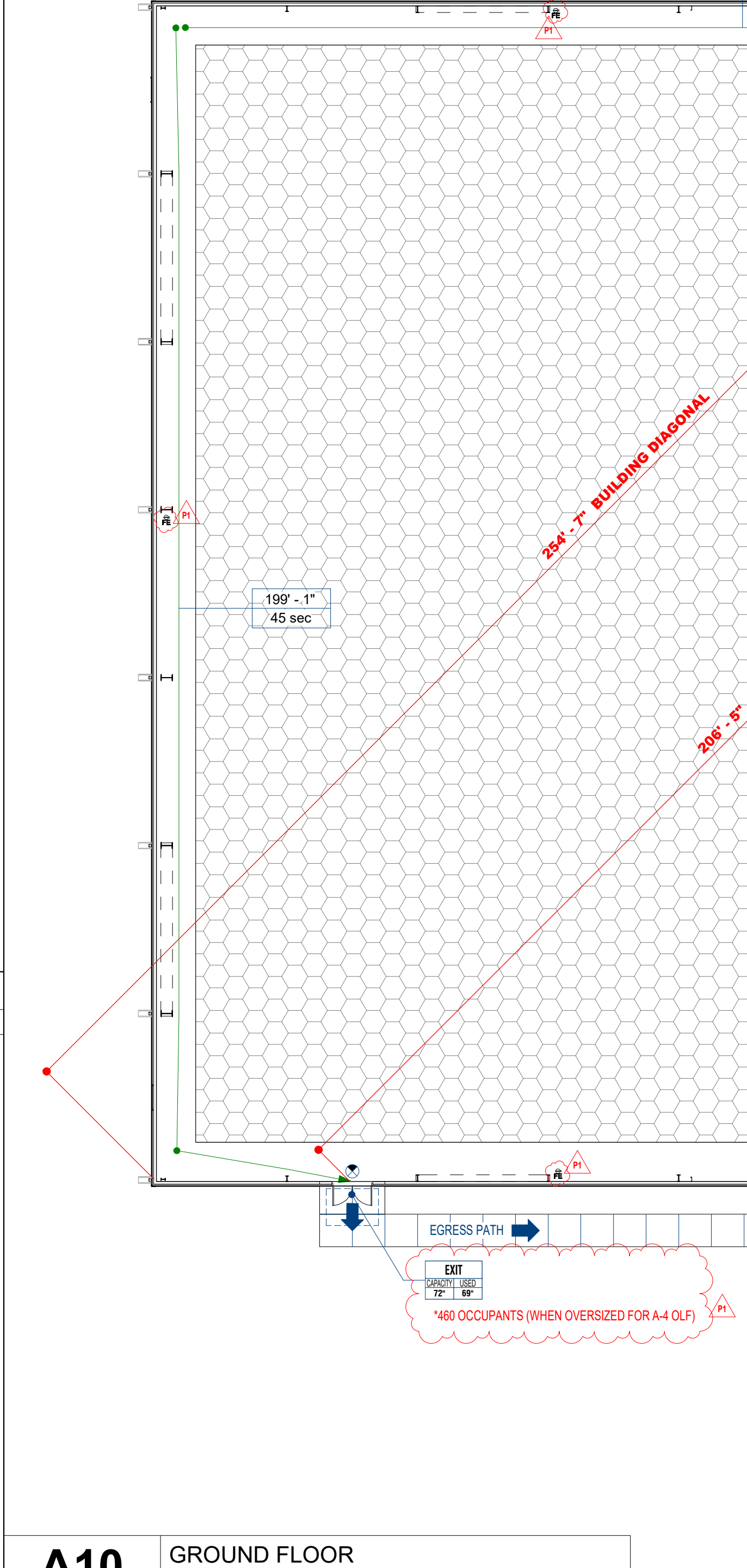
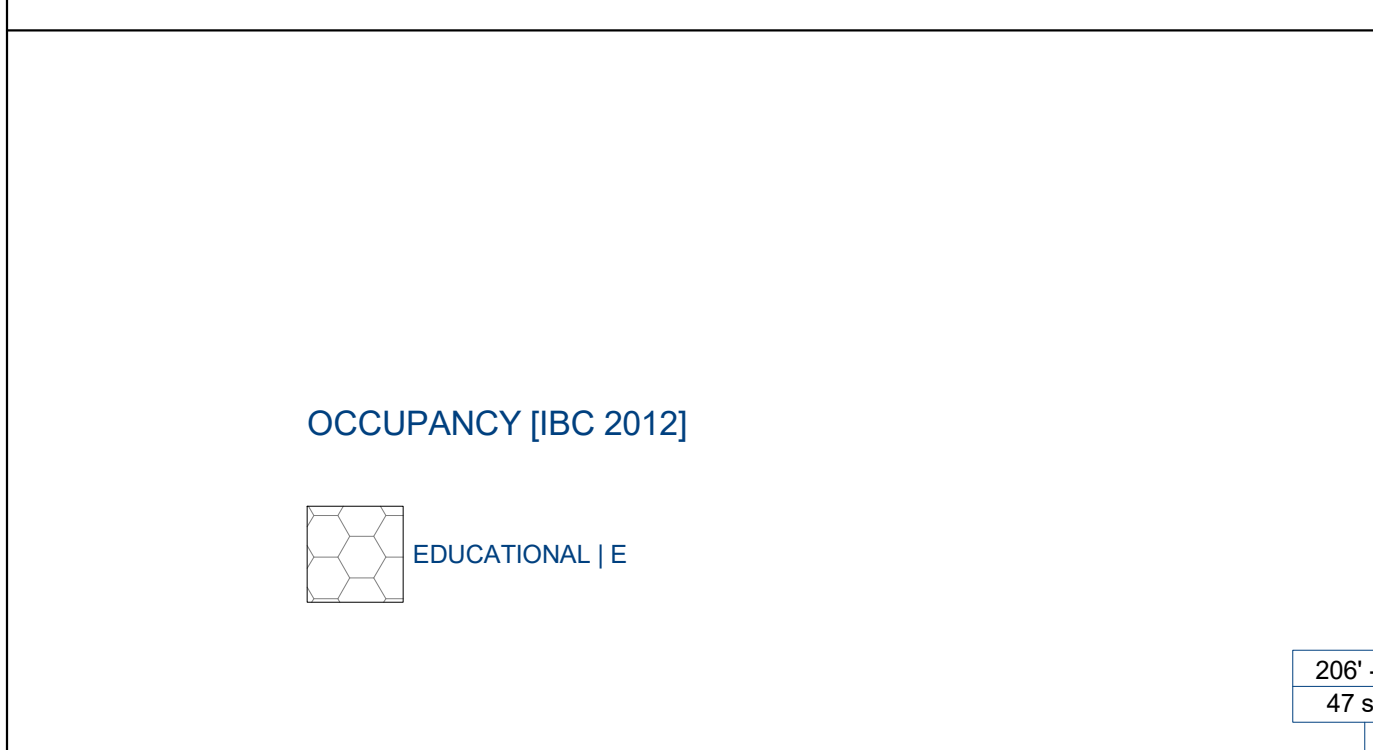
2012 INTERNATIONAL BUILDING CODE (IBC):

Table containing IBC Chapter 1: SCOPE & ADMINISTRATION, IBC Chapter 2: DEFINITIONS, IBC Chapter 3: OCCUPANCY CLASSIFICATION & USE, IBC Chapter 4: SPECIAL DETAILED REQUIREMENTS, IBC Chapter 5: GENERAL BUILDING HEIGHTS & AREAS, IBC Chapter 6: TYPES OF CONSTRUCTION, IBC Chapter 7: FIRE & SMOKE PROTECTION FEATURES, IBC Chapter 8-9: MEANS OF EGRESS, IBC Chapter 10: ACCESSIBILITY, IBC Chapter 11: SPECIAL INSPECTIONS & TESTING REQUIREMENTS, IBC Chapter 12-28: PLUMBING SYSTEMS.

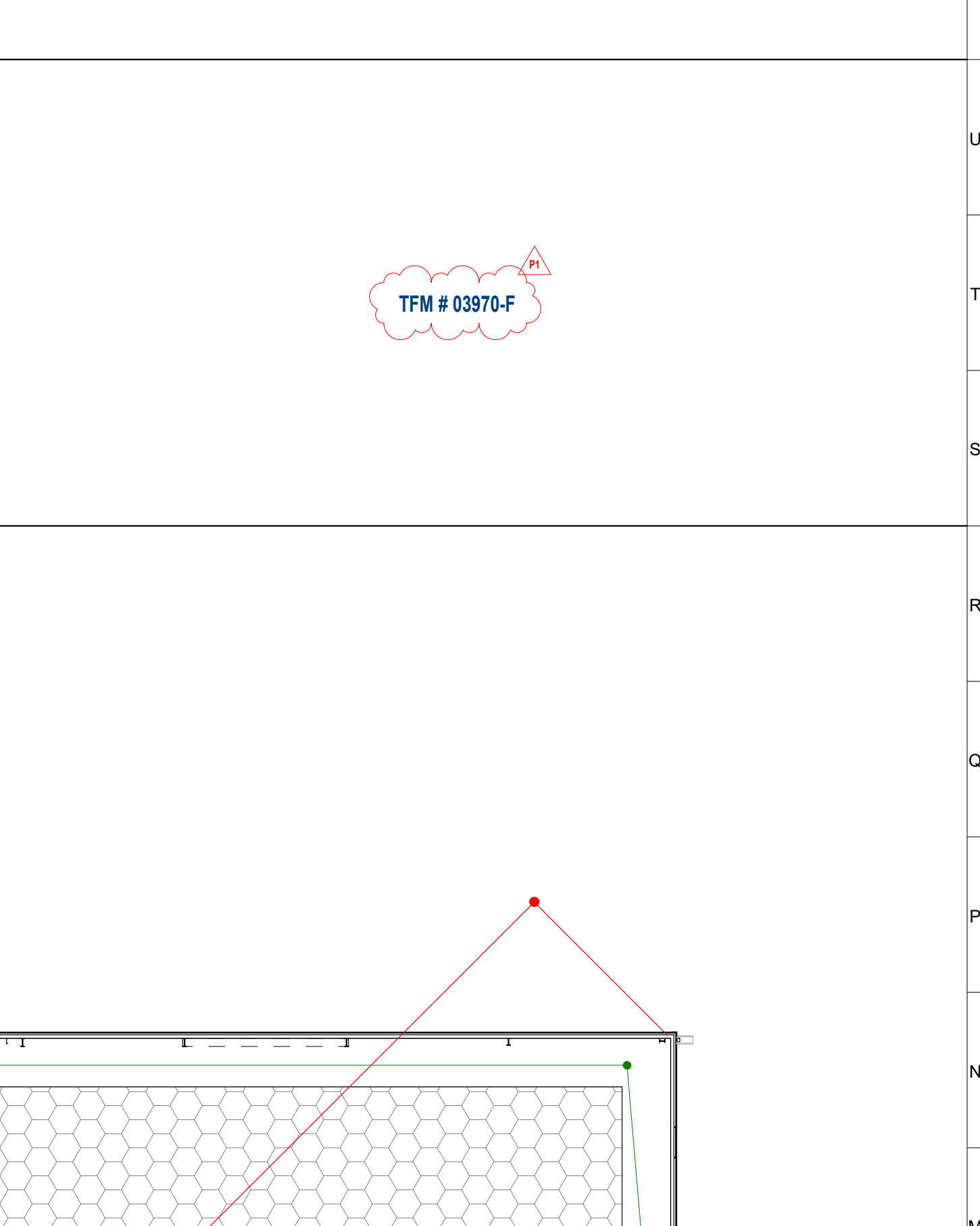
CITY OF CLINTON FIRE DEPARTMENT and TENNESSEE FIRE MARSHAL CODES

JEFF LITTLE, FIRE CHIEF, CLINTON, TN. CODES CURRENTLY ADOPTED BY THE TENNESSEE STATE FIRE MARSHAL'S OFFICE: INTERNATIONAL BUILDING CODE, 2012 EDITION (EXCLUDING CHAPTER 11 AND SECTION 3111)...

PROJECT IDENTIFICATION: ANDERSON COUNTY SPORTS TRAINING FACILITY 2300. LOCATION: 160 MAVERICK CIR, CLINTON, TN 37116. SITE ZONING & CODES REVIEW: TYLER GOZA, DESIGN INNOVATION (DA). APPLICABLE CODES & GUIDELINES: IBC 2012, IECC 2012, IFGC 2012, IMC 2012, IPC 2009, IPMC 2009, ADA 2010.



LIFE SAFETY GRAPHIC LEGEND: MAXIMUM EXIT / EXIT ACCESS TRAVEL DISTANCE (307'), EXIT / EXIT ACCESS TRAVEL DISTANCE SEGMENT START / STOP, SEMI-RECESSED / FLUSH WALL MOUNTED FIRE EXTINGUISHER CABINET, WALL HOOK MOUNTED FIRE EXTINGUISHER, EXIT SIGNAGE & EMERGENCY LIGHTING, EXIT / EXIT ACCESS COMPONENT & TAG, ACCESSIBLE CLEAR FLOOR SPACE.



DIA Design Innovation ARCHITECTS + INTERIORS + PLANNING. 402 S. Gray Street, Suite 201, Knoxville, TN 37902. www.dia-arch.com

A NEW PROJECT FOR: ANDERSON COUNTY SPORTS TRAINING FACILITY. ANDERSON COUNTY, TN. PROJECT# 2023-10-18-02. FIELD SET

PROJECT CODE REQUIREMENTS table with columns for NO., ISSUED BY, DATE.

PROJECT DESCRIPTION: ANDERSON COUNTY SPORTS TRAINING FACILITY. SHEET DESCRIPTION: GROUND FLOOR. PROJECT DATE: 2023-10-17. PROJECT NUMBER: 23030.

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DESIGN INNOVATION ARCHITECTS, INC. THESE PLANS ARE SPECIFIC TO THIS PROJECT AND SHOULD NOT BE USED FOR ANY OTHER PROJECT OR FOR ANY OCCUPANCY OR PERMITTED USE WITHOUT THE WRITTEN PERMISSION OF THIS OFFICE. No alterations or deletions are to be made without the written permission of the Fire Marshal's Office.



TFM # 03970-F

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT UP TO DATE OR OCCUPANCY OF THIS PROJECT IS VOID. COMPLETION OF THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY CHANGES TO THESE PLANS MUST BE APPROVED BY THE ARCHITECT. NO alterations, deletions, additions or modifications of any kind are allowed to this proposal without written permission of this office.
G100
 PROJECT DATE: 2023-11-10 PROJECT NUMBER: 23030

COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4
 Project Type: New Construction
 Vertical Glazing / Wall Area: 0%

Construction Site: 150 Maverick Ct, Clinton, Tennessee 37716
 Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
 Credits: 1.0 Required, 1.0 Proposed
 High Performance HVAC, 1.0 credit

Building Area	Floor Area
Sports Training Facility - heat only (Excludes carport)	32400
Nonresidential	

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Metal Building, Standing Seam, Liner System with Thermal Break (B); (Bldg. Use 1 - Sports Training Facility - heat only)	32400	0.0	20.0	0.034	0.035
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber, compressed air girts, (Bldg. Use 1 - Sports Training Facility - heat only)	21768	0.0	20.0	0.046	0.052
Window: Metal Frame with Thermal Break, Fixed, (Perf. Type Energy Code Option, Double Pane with Low-E, Clear, Laminated)	91	---	---	0.650	0.360
Door: Insulated Metal, Single, (Bldg. Use 1 - Sports Training Facility - heat only)	532	---	---	0.770	0.610
Floor: Concrete Floor (over unconditioned space), (Bldg. Use 1 - Sports Training Facility - heat only)	726	---	10.0	0.076	0.076

Project Notes
 (a) Budget Factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Thermal spacer block with minimum R-3.3 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope Compliance Statement
 Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: 23030_ACHS Sports Training Facility Report date: 11/30/23
 Data Filename: Page: 1 of 15

TYLER GOZA Tyler Goza, Registered Architect, State of Tennessee, License No. 22033, expires 12/31/2023.
 Have: Title Signature Date: 2023-11-30

New 180' x 180' pre-engineered metal building sports practice facility for Anderson County High School.

Project Title: 23030_ACHS Sports Training Facility Report date: 11/30/23
 Data Filename: Page: 1 of 15

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction
 Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
 Credits: 1.0 Required, 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Area Category	A	B	C		D	E
			Floor Area (ft2)	Allowed Watts / ft2		
1.School/University	32400	6.96			32076	
Proposed Interior Lighting Power						
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E	
1.School/University	LED A: High bay LED Other Fixture Watt: 125W	1	81	300	25020	
	LED C: 2x4 LED Panel 50W	1	3	35	105	
	LED D: 2' strip LED Linear 22W	1	24	24	24	
					Total Proposed Watts =	25158

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer Signature Date: 11-10-23

Project Title: ACHS Sports Training Facility Report date: 11/30/23
 Data Filename: Page: 1 of 15

COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction
 Exterior Lighting Zone: 2. Neighborhood business district (L2Z)

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
 Credits: 1.0 Required, 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Area/Surface Category	A	B	C	D	E	C	
						Quantity	Allowed Watts / Wattage
Walkway < 10 feet wide	720 ft. of	5.7	Yes	---	504		
Proposed Exterior Lighting Power							
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E		
Walkway < 10 feet wide (720 ft. of walkway length), Tractable Wattage	LED B: wall pack LED Roadway/Fixture Watt: 110W	1	8	120	960		
					Total Tractable Proposed Watts =	504	

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer Signature Date: 11-10-23

Project Title: ACHS Sports Training Facility Report date: 11/30/23
 Data Filename: Page: 1 of 15

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4
 Project Type: New Construction
 Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
 Credits: 1.0 Required, 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity System Type & Description

- Water Heater: Electric Storage Water Heater, Capacity: 30 gallons. No minimum efficiency requirement applies.

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Babayan - President Signature Date: 11-09-23

Project Title: 23030_ACHS Sports Training Facility Report date: 11/30/23
 Data Filename: Page: 1 of 8

Main grid area containing architectural drawings, tables, and text. Includes a large table of abbreviations on the left, a materials legend (Q03) on the right, and a central drawing area with various reference symbols and details.

A25 ABBREVIATIONS

Q03 STANDARD MATERIALS LEGEND

A10 LEGEND - STANDARD SYMBOLS

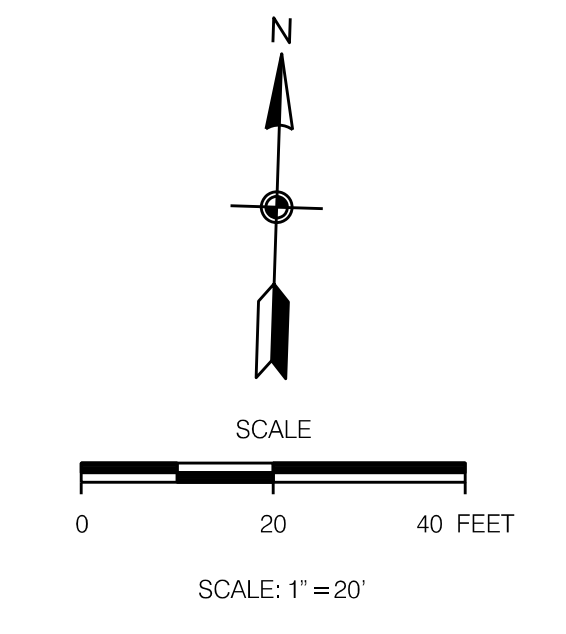
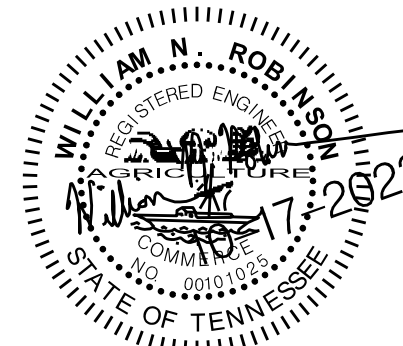


ANDERSON COUNTY SPORTS TRAINING FACILITY ANDERSON COUNTY, TN

PROJECT # 2023-10-18-02

G199 PROJECT DATE 2023-10-17 PROJECT NUMBER 23030

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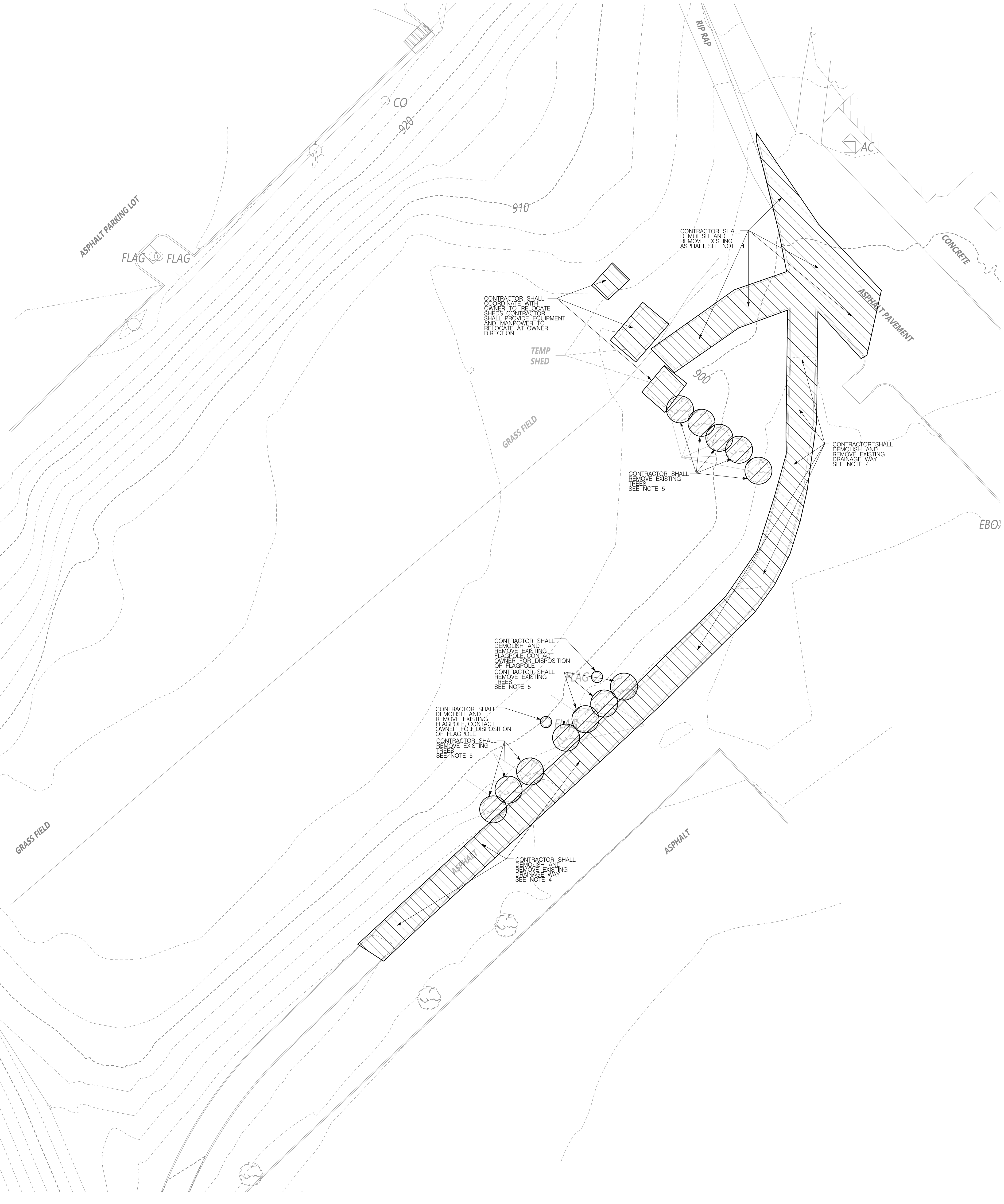


LEGEND:

EXISTING		PROPOSED		
--- 535.25'	---	--- 535.25'	---	GROUND CONTOUR ELEVATION
535.25'	□	535.25'	□	SPOT ELEVATION STRUCTURE
-○-	---	NA	---	PROPERTY LINE EASEMENT
--- SD ---	---	---	---	EDGE OF PAVEMENT STORM DRAIN
--- SS ---	---	---	---	SANITARY SEWER POTABLE WATER
--- PW ---	---	---	---	POTABLE WATER NATURAL GAS
--- NG ---	---	---	---	NATURAL GAS OVERHEAD ELECTRICAL
--- OE ---	⓪	⓪	⓪	WATER METER FIRE HYDRANT
⓪	⓪	NA	⓪	NA SURFACE FLOW
NA	---	---	---	NA SILT FENCING
---	---	---	---	CURB CATCH BASIN
□	---	---	---	CONCRETE PAVEMENT ASPHALT PAVEMENT
NA	---	---	---	NA RIP RAP

SITE DEMOLITION NOTES

- SITE BOUNDARY AND TOPOGRAPHIC SURVEY IS FROM A SURVEY BY S&ME DATED 09/05/2023. THE CONTRACTOR SHALL VERIFY THE EXISTING INFORMATION PRIOR TO CONSTRUCTION. THE ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
- CONTRACTOR SHALL CALL TN ONE CALL TO LOCATE SITE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UTILIZE ONE CALL INFORMATION, SITE RECORDS AND ANY OTHER MEANS AT HIS DISPOSAL TO DETERMINE THE LOCATION OF EXISTING UTILITIES.
- DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES HAVE BEEN INSTALLED AND ARE FUNCTIONAL.
- CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CURBS, SIDEWALKS AND/OR OTHER RELATED MATERIALS TO THE LIMITS INDICATED ON THIS PLAN AND DISPOSE OF THE WASTE MATERIALS AS DIRECTED BY THE OWNER AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS. COORDINATE DEMOLITION WITH THE OWNER. PROVIDE TEMPORARY ACCESS ROUTES AS REQUIRED. PERFORM DEMOLITION IN ACCORDANCE WITH THE PROJECT PHASING PLANS.
- THE CONTRACTOR SHALL REMOVE EXISTING TREES WITHIN THE AREA OF WORK DEPICTED ON THE FOLLOWING DRAWINGS AND AS REQUIRED IN THE FIELD. CONTRACTOR SHALL REMOVE ENTIRE TREE INCLUDING ROOTBALL UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL DISPOSE OF WASTE OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. MULCHED BRANCHES MAY BE USED FOR EROSION CONTROL BUT MUST BE REMOVED WHEN THE SITE HAS BEEN STABILIZED. PRIOR TO REMOVING ANY TREES OR LANDSCAPE PLANTS, VERIFY THAT THE OWNER HAS IDENTIFIED AND REMOVED ANY PLANTS THAT THEY INTEND TO SALVAGE AND RE-USE.
- PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING CONCRETE AND/OR PAVEMENT ALONG ALL LIMITS OF CONCRETE AND/OR PAVEMENT DEMOLITION.
- ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. DISPOSE OF DEMOLITION WASTE OFF THE OWNERS PROPERTY IN A LEGAL MANNER.
- THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK. WATER USE SHALL NOT BE EXCESSIVE TO THE POINT OF SUSPENDING SOLIDS/SEDIMENT IN RUNOFF WATER.
- CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES, AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR CAUSED DAMAGE SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PREPARE THE PROJECT SITE FOR THE PROPOSED CONSTRUCTION DEPICTED ON THE FOLLOWING DRAWINGS FOR THIS PROJECT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR WORK REQUIRED AND NOT SPECIFICALLY NOTED ON THIS DRAWING. DEMOLITION WORK MAY BE INDICATED ON DRAWINGS BY OTHER DISCIPLINES.

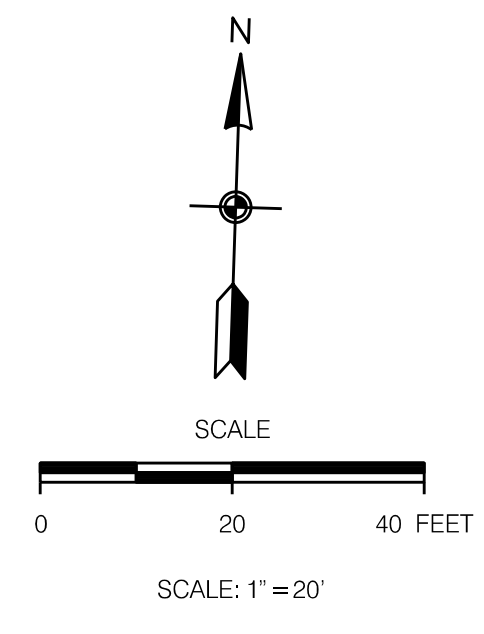
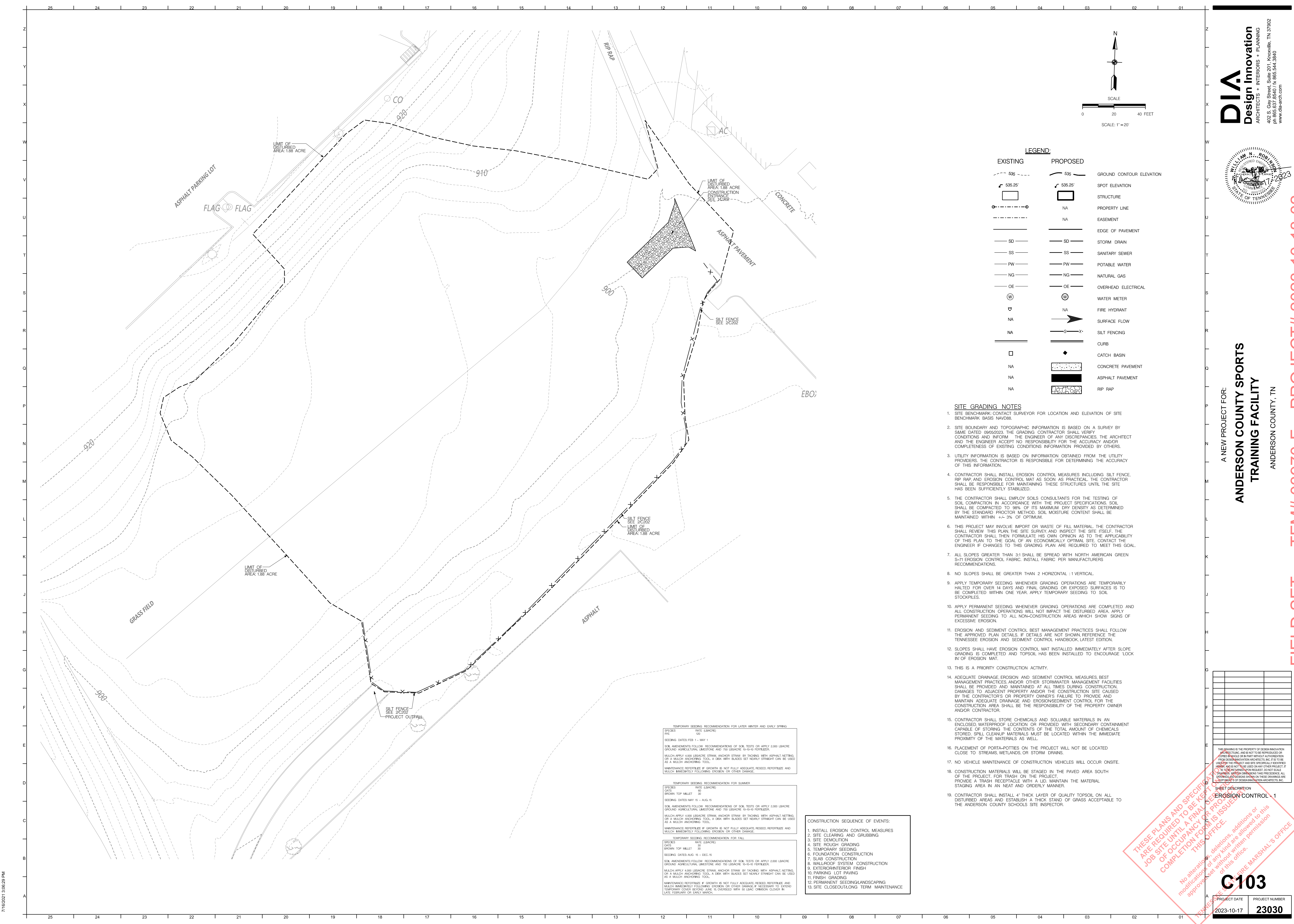


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FOR ALL FIRE MARSHAL'S OFFICE



LEGEND:

EXISTING	PROPOSED	
- 535 -	- 535 -	GROUND CONTOUR ELEVATION
○ 535.25'	○ 535.25'	SPOT ELEVATION
□	□	STRUCTURE
- - - -	- - - -	PROPERTY LINE
- - - -	- - - -	EASEMENT
- SD -	- SD -	EDGE OF PAVEMENT
- SS -	- SS -	STORM DRAIN
- PW -	- PW -	SANITARY SEWER
- NG -	- NG -	POTABLE WATER
- OE -	- OE -	NATURAL GAS
⊙	⊙	OVERHEAD ELECTRICAL
⊙	⊙	WATER METER
⊕	⊕	FIRE HYDRANT
NA	→	SURFACE FLOW
NA	- X -	SILT FENCING
□	◆	CATCH BASIN
NA	▨	CONCRETE PAVEMENT
NA	▩	ASPHALT PAVEMENT
NA	▩	RIP RAP

SITE GRADING NOTES

1. SITE BENCHMARK; CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD83.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SAME DATED 08/09/2023. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
3. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN + - 2% OF OPTIMUM.
6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S-71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
10. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
11. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
12. SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE LOCK IN OF EROSION MAT.
13. THIS IS A PRIORITY CONSTRUCTION ACTIVITY.
14. ADEQUATE DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES BEST MANAGEMENT PRACTICES AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNERS FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
15. CONTRACTOR SHALL STORE CHEMICALS AND SOLUBLE MATERIALS IN AN ENCLOSED, WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
16. PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
17. NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ONSITE.
18. CONSTRUCTION MATERIALS WILL BE STAGED IN THE PAVED AREA SOUTH OF THE PROJECT. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID, MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
19. CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE ANDERSON COUNTY SCHOOLS SITE INSPECTOR.

- CONSTRUCTION SEQUENCE OF EVENTS:**
1. INSTALL EROSION CONTROL MEASURES
 2. SITE CLEARING AND GRUBBING
 3. SITE DEMOLITION
 4. SITE ROUGH GRADING
 5. TEMPORARY SEEDING
 6. FOUNDATION CONSTRUCTION
 7. SLAB CONSTRUCTION
 8. WALL/ROOF SYSTEM CONSTRUCTION
 9. EXTERIOR/INTERIOR FINISH
 10. PARKING LOT PAVING
 11. FINISH GRADING
 12. PERMANENT SEEDING/LANDSCAPING
 13. SITE CLOSE/OUTLONG TERM MAINTENANCE

TEMPORARY SEEDING RECOMMENDATION FOR LATER WINTER AND EARLY SPRING

SPECIES	RATE (LB/ACRE)
RYE	100
DATE	SILT ANCHORING
SEEDING DATES: FEB 1 - MAY 1	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKLING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	

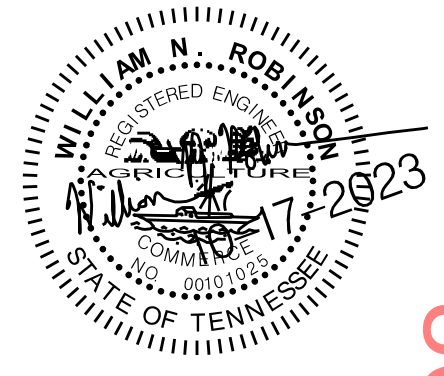
TEMPORARY SEEDING RECOMMENDATION FOR SUMMER

SPECIES	RATE (LB/ACRE)
BROWN TOP MILLET	30
DATE	SILT ANCHORING
SEEDING DATES: MAY 15 - AUG. 15	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKLING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	

TEMPORARY SEEDING RECOMMENDATION FOR FALL

SPECIES	RATE (LB/ACRE)
BROWN TOP MILLET	30
DATE	SILT ANCHORING
SEEDING DATES: AUG 15 - DEC 15	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKLING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND APRIL 15, COVERED WITH 10 LB/AC GIBBERN CLOVER IN LATE FEBRUARY OR EARLY MARCH.	

DIA
Design Innovation
 ARCHITECTS + INTERIORS + PLANNING
 402 S. Gay Street, Suite 201, Knoxville, TN 37902
 PH 865.637.8540 / Fx 865.544.3840
 www.dia-arch.com



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

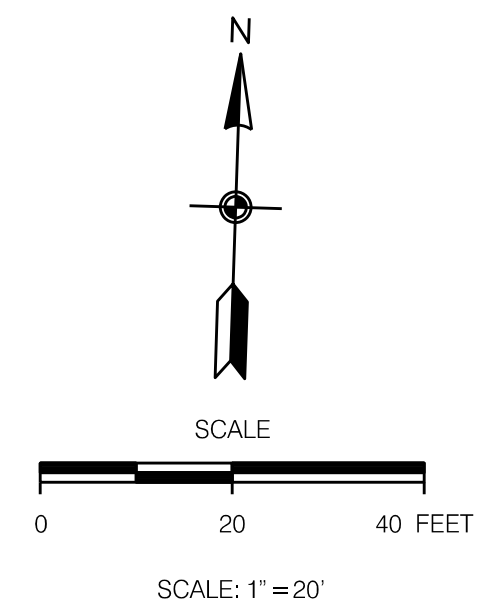
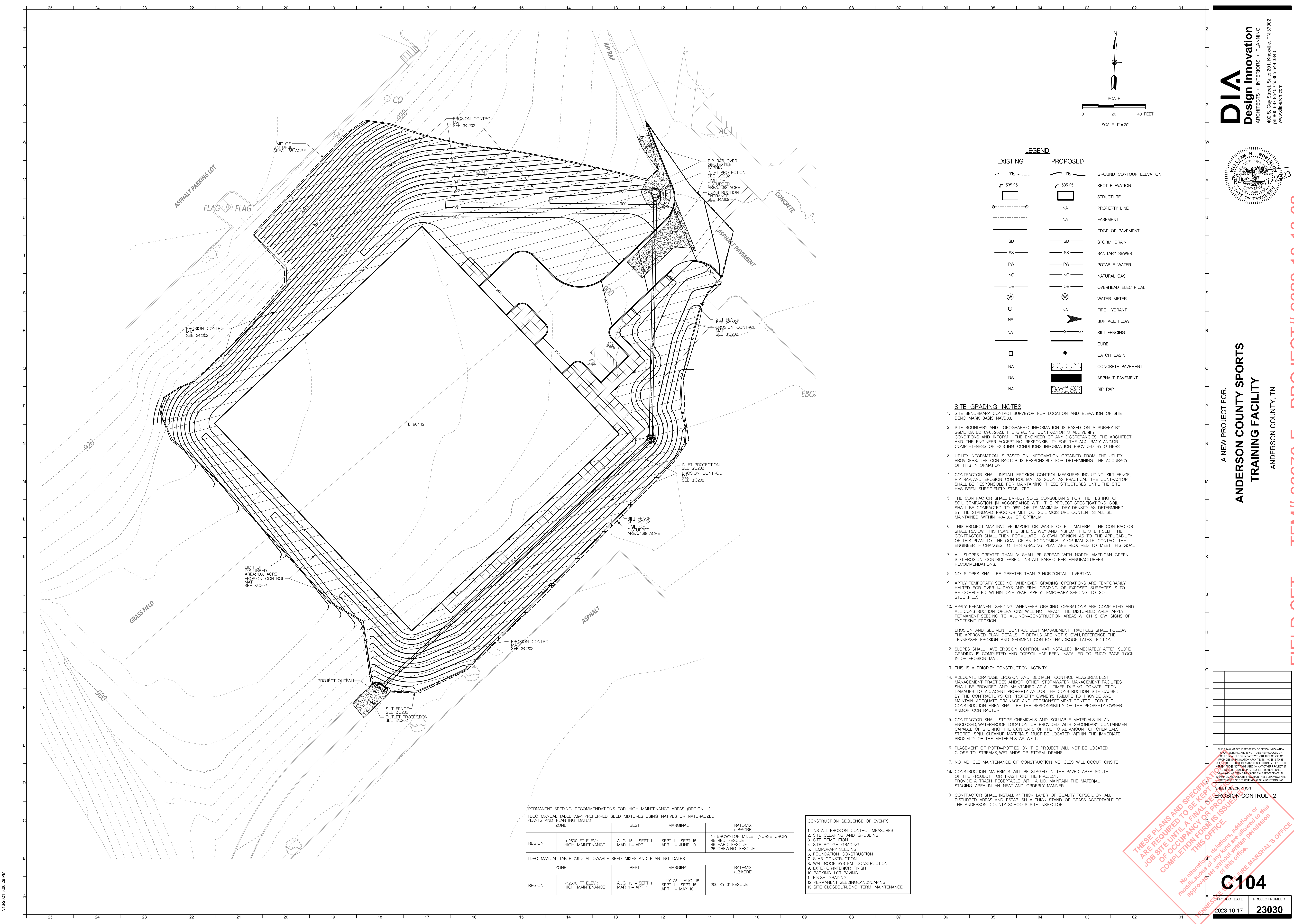
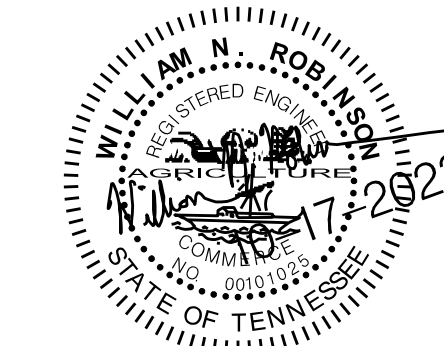
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FOR MORE INFORMATION, CONTACT THE FIRE MARSHAL'S OFFICE.

TFM# 03970-F PROJECT# 2023-10-18-02 FIELD SET



LEGEND:

EXISTING	PROPOSED	DESCRIPTION
--- 535 ---	--- 535 ---	GROUND CONTOUR ELEVATION
--- 535.25' ---	--- 535.25' ---	SPOT ELEVATION
[Symbol]	[Symbol]	STRUCTURE
---	---	PROPERTY LINE
---	---	EASEMENT
---	---	EDGE OF PAVEMENT
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
PW	PW	POTABLE WATER
NG	NG	NATURAL GAS
OE	OE	OVERHEAD ELECTRICAL
(W)	(W)	WATER METER
(F)	(F)	FIRE HYDRANT
NA	---	SURFACE FLOW
NA	---	SILT FENCING
[Symbol]	[Symbol]	CURB
[Symbol]	[Symbol]	CATCH BASIN
NA	[Symbol]	CONCRETE PAVEMENT
NA	[Symbol]	ASPHALT PAVEMENT
NA	[Symbol]	RIP RAP

- SITE GRADING NOTES**
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 - THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
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 - NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL :1 VERTICAL.
 - APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
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 - PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
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 - CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE ANDERSON COUNTY SCHOOLS SITE INSPECTOR.

PERMANENT SEEDING RECOMMENDATIONS FOR HIGH MAINTENANCE AREAS (REGION III)

TDEC MANUAL TABLE 7-9-1 PREFERRED SEED MIXTURES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES

ZONE	BEST	MARGINAL	RATEMIX (LB/ACRE)
REGION III	<2500 FT ELEV.; HIGH MAINTENANCE AUG 15 - SEPT 1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	15 BROWNTOP MILLET (NURSE CROP) 45 RED FESCUE 45 HARD FESCUE 25 CHEWING FESCUE

TDEC MANUAL TABLE 7-9-2 ALLOWABLE SEED MIXES AND PLANTING DATES

ZONE	BEST	MARGINAL	RATEMIX (LB/ACRE)
REGION III	<2500 FT ELEV.; HIGH MAINTENANCE AUG 15 - SEPT 1 MAR 1 - APR 1	JULY 25 - AUG 15 SEPT 1 - SEPT 15 APR 1 - MAY 10	200 KY 31 FESCUE

- CONSTRUCTION SEQUENCE OF EVENTS:**
- INSTALL EROSION CONTROL MEASURES
 - SITE CLEARING AND GRUBBING
 - SITE DEMOLITION
 - SITE ROUGH GRADING
 - TEMPORARY SEEDING
 - FOUNDATION CONSTRUCTION
 - SLAB CONSTRUCTION
 - WALL/ROOF SYSTEM CONSTRUCTION
 - EXTERIOR/INTERIOR FINISH
 - PARKING LOT PAVING
 - FINISH GRADING
 - PERMANENT SEEDING/LANDSCAPING
 - SITE CLOSEOUT/LONG TERM MAINTENANCE

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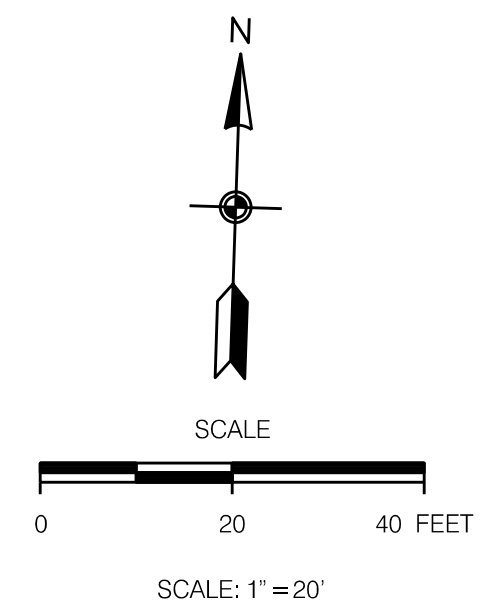
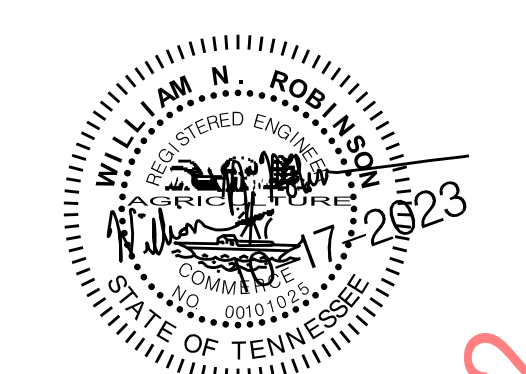
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C104

PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

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LEGEND:

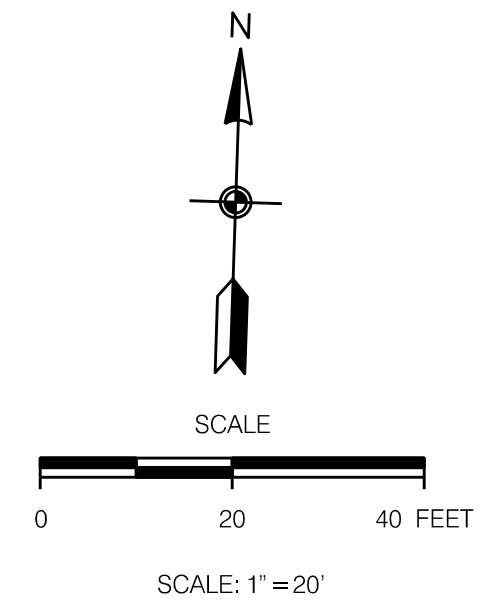
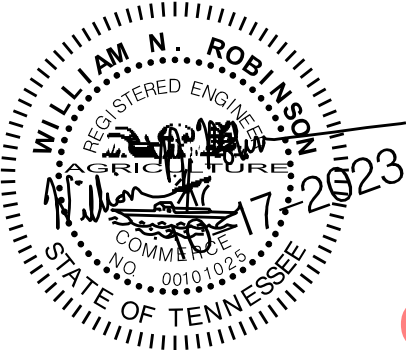
EXISTING	PROPOSED	
535	535	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
		PROPERTY LINE
		EASEMENT
		EDGE OF PAVEMENT
		STORM DRAIN
		SANITARY SEWER
		POTABLE WATER
		NATURAL GAS
		OVERHEAD ELECTRICAL
		WATER METER
		FIRE HYDRANT
		SURFACE FLOW
		SILT FENCING
		CURB
		CATCH BASIN
		CONCRETE PAVEMENT
		ASPHALT PAVEMENT
		RIP RAP

SITE GRADING NOTES

1. SITE BENCHMARK: CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD83.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SAME DATED 08/20/2023. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
3. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/- 3% OF OPTIMUM.
6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S-71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURER'S RECOMMENDATIONS.
8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
10. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
11. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.
12. SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE LOCK IN OF EROSION MAT.
13. THIS IS A PRIORITY CONSTRUCTION ACTIVITY.
14. ADEQUATE DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES BEST MANAGEMENT PRACTICES AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
15. CONTRACTOR SHALL STORE CHEMICALS AND SOLUBLE MATERIALS IN AN ENCLOSED WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
16. PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
17. NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ON-SITE.
18. CONSTRUCTION MATERIALS WILL BE STAGED IN THE PAVED AREA SOUTH OF THE PROJECT. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID. MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
19. CONTRACTOR SHALL INSTALL 4\"

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FOR THE ATTENTION OF THE FIRE MARSHAL'S OFFICE

C105
SITE GRADING PLAN

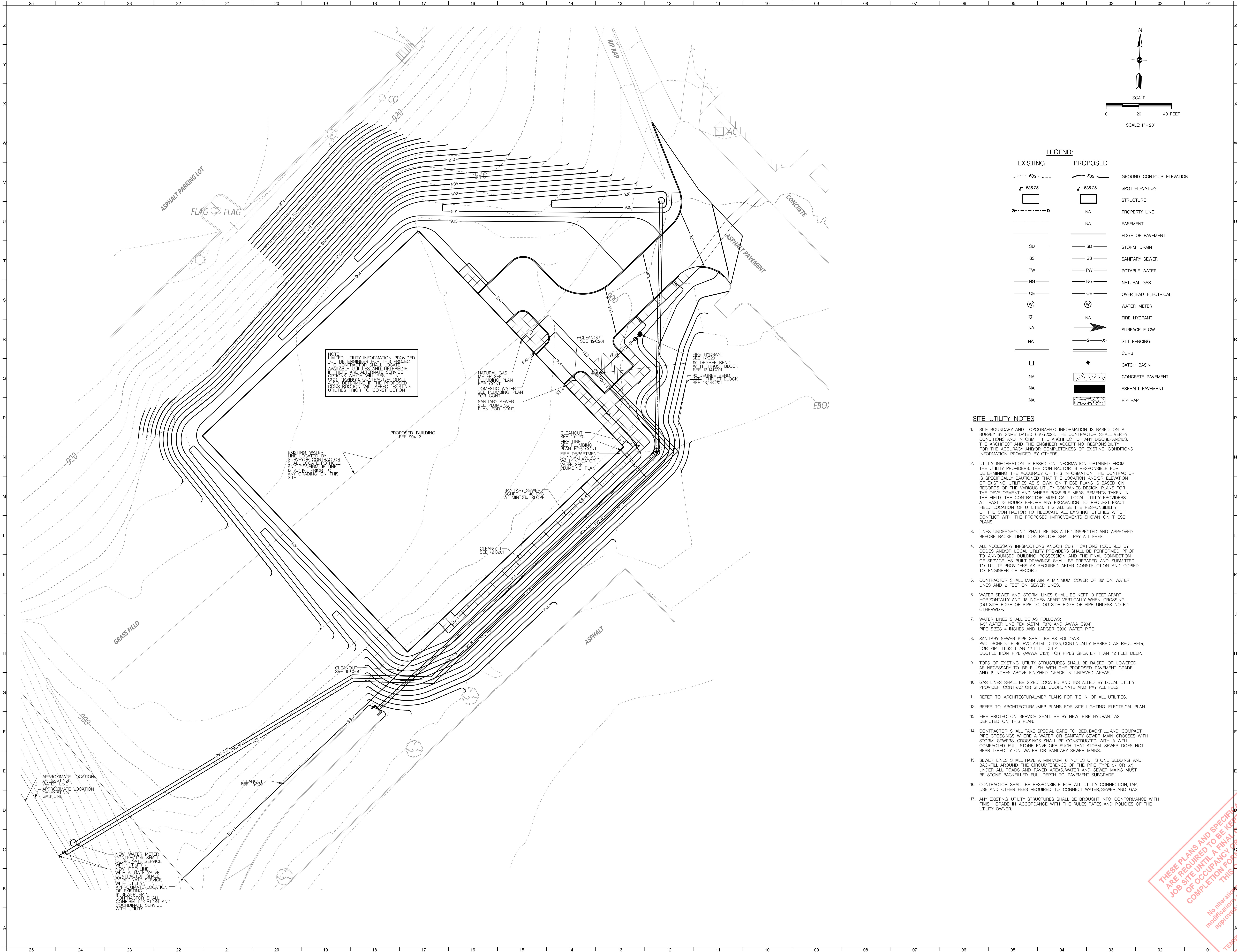


LEGEND:

	EXISTING		PROPOSED	GROUND CONTOUR ELEVATION
	535.25'		535.25'	SPOT ELEVATION
				STRUCTURE
		NA		PROPERTY LINE
		NA		EASEMENT
				EDGE OF PAVEMENT
	SD	SD		STORM DRAIN
	SS	SS		SANITARY SEWER
	PW	PW		POTABLE WATER
	NG	NG		NATURAL GAS
	OE	OE		OVERHEAD ELECTRICAL
				WATER METER
				FIRE HYDRANT
	NA			SURFACE FLOW
	NA			SILT FENCING
				CURB
				CATCH BASIN
	NA			CONCRETE PAVEMENT
	NA			ASPHALT PAVEMENT
	NA			RIP RAP

SITE UTILITY NOTES

- SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY S&ME DATED 09/02/2023. THE CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
- UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. DESIGN PLANS FOR THE DEVELOPMENT AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR MUST CALL LOCAL UTILITY PROVIDERS AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR LOCAL UTILITY PROVIDERS SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. AS BUILT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO UTILITY PROVIDERS AS REQUIRED AFTER CONSTRUCTION AND COPIED TO ENGINEER OF RECORD.
- CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 36" ON WATER LINES AND 2 FEET ON SEWER LINES.
- WATER, SEWER AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) UNLESS NOTED OTHERWISE.
- WATER LINES SHALL BE AS FOLLOWS:
 1-2" WATER LINE: PE (ASTM F876 AND AWWA C904)
 PIPE SIZES 4 INCHES AND LARGER: C900 WATER PIPE
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 PVC (SCHEDULE 40 PVC, ASTM D-1785, CONTINUALLY MARKED AS REQUIRED), FOR PIPE LESS THAN 12 FEET DEEP.
 DUCTILE IRON PIPE (AWWA C155), FOR PIPES GREATER THAN 12 FEET DEEP.
- TOPS OF EXISTING UTILITY STRUCTURES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH THE PROPOSED PAVEMENT GRADE AND 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.
- GAS LINES SHALL BE SIZED, LOCATED, AND INSTALLED BY LOCAL UTILITY PROVIDER. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES.
- REFER TO ARCHITECTURAL MEP PLANS FOR THE IN OF ALL UTILITIES.
- REFER TO ARCHITECTURAL MEP PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
- FIRE PROTECTION SERVICE SHALL BE BY NEW FIRE HYDRANT AS DERICTED ON THIS PLAN.
- CONTRACTOR SHALL TAKE SPECIAL CARE TO BED BACKFILL AND COMPACT PIPE CROSSINGS WHERE A WATER OR SANITARY SEWER MAIN CROSSES WITH STORM SEWERS. CROSSINGS SHALL BE CONSTRUCTED WITH A WELL COMPACTED FULL STONE ENVELOPE SUCH THAT STORM SEWER DOES NOT BEAR DIRECTLY ON WATER OR SANITARY SEWER MAINS.
- SEWER LINES SHALL HAVE A MINIMUM 6 INCHES OF STONE BEDDING AND BACKFILL AROUND THE CIRCUMFERENCE OF THE PIPE (PIPE 37 OR 47) UNDER ALL ROADS AND PAVED AREAS. WATER AND SEWER MAINS MUST BE STONE BACKFILLED FULL DEPTH TO PAVEMENT SUBGRADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION TAP, USE, AND OTHER FEES REQUIRED TO CONNECT WATER, SEWER, AND GAS.
- ANY EXISTING UTILITY STRUCTURES SHALL BE BROUGHT INTO CONFORMANCE WITH FINISH GRADE IN ACCORDANCE WITH THE RULES, RATES, AND POLICIES OF THE UTILITY OWNER.



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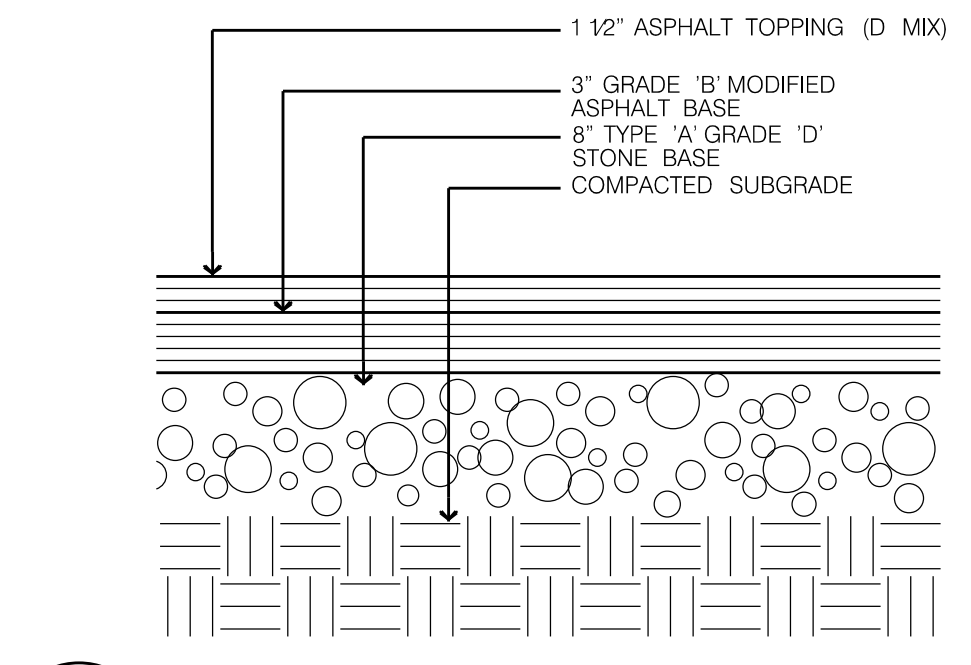
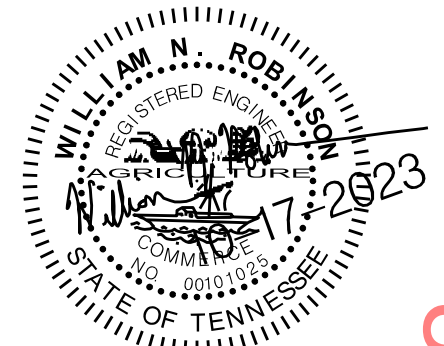
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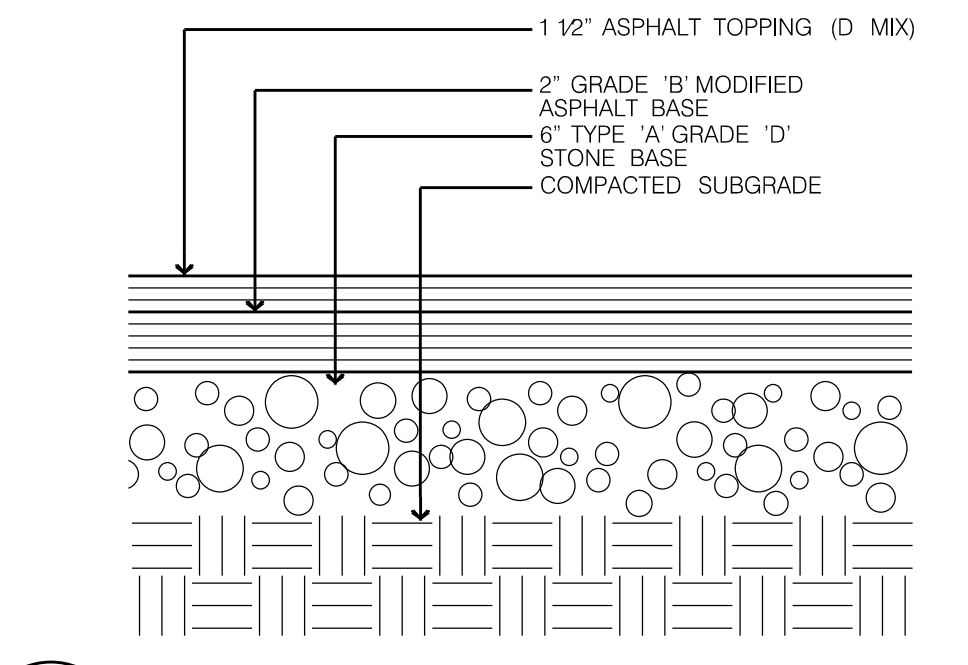
C106

PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

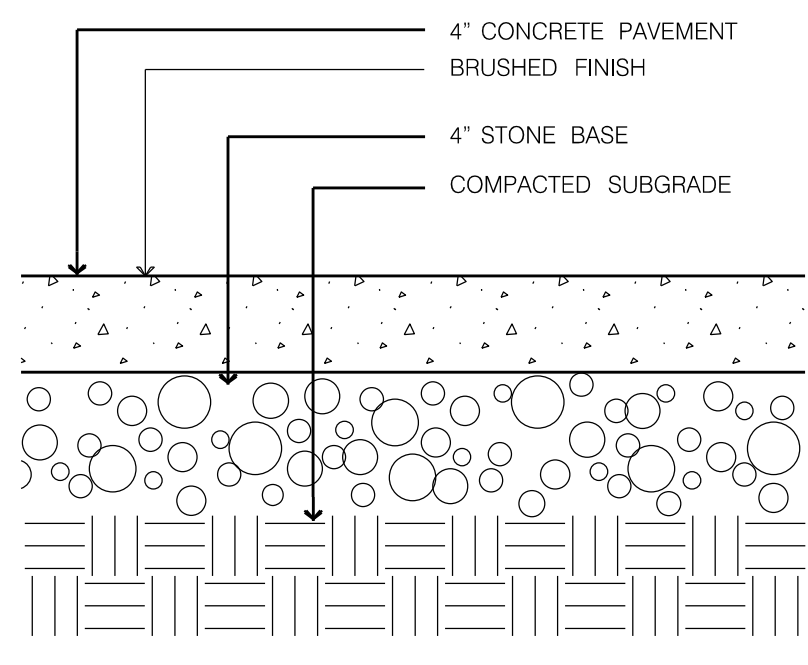
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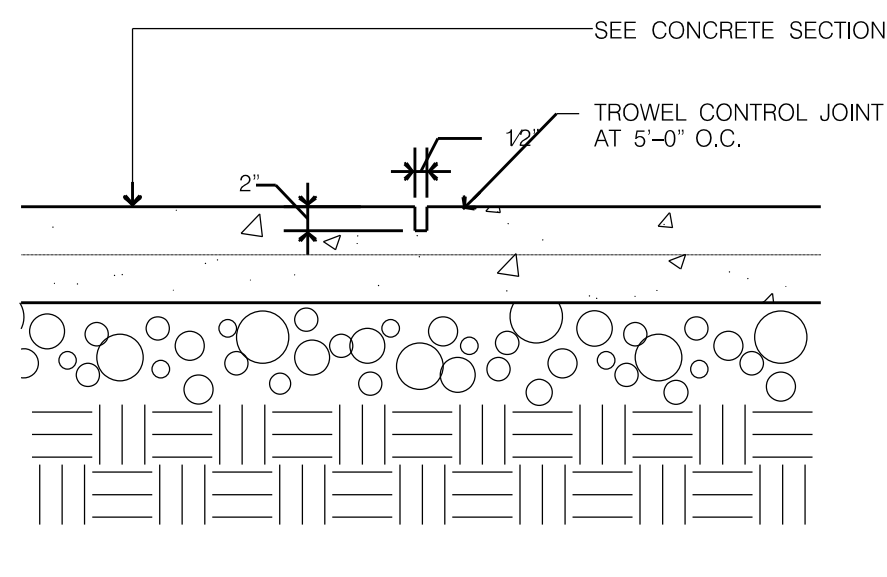
1 HEAVY DUTY PAVING SECTION
 C201 NOT TO SCALE



2 LIGHT DUTY PAVING SECTION
 C201 NOT TO SCALE



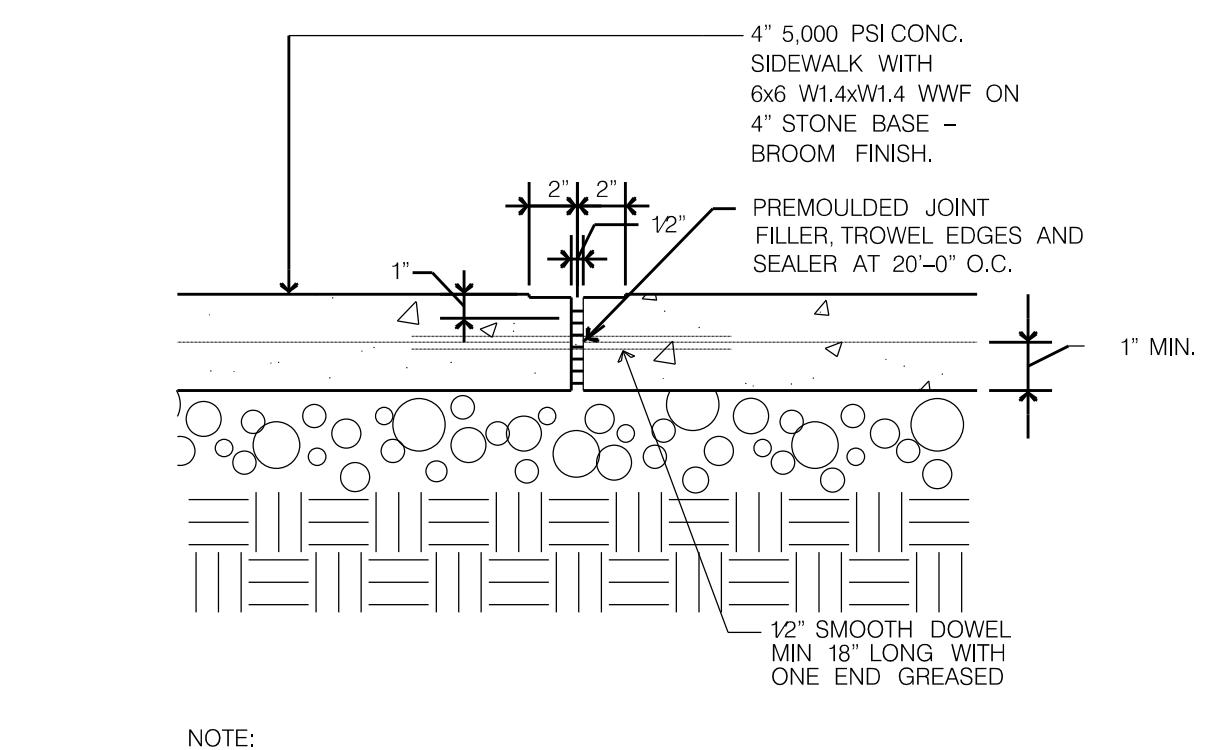
3 TYPICAL SIDEWALK SECTION
 C201 NOT TO SCALE



4 CONTROL JOINT DETAIL
 C201 NOT TO SCALE

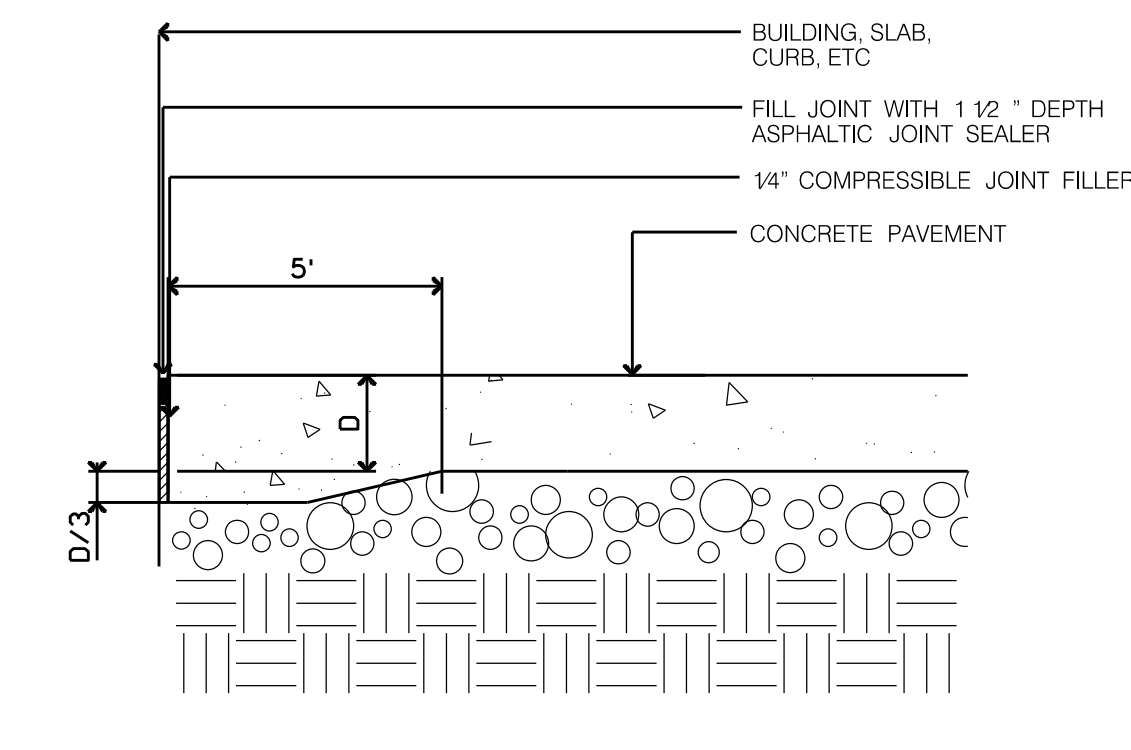
NOTE: ALL EXTERIOR CONCRETE SHALL BE 0.42 WATER/CEMENT RATIO OR BETTER WITH 20% MIN. FLYASH CONTENT. MINIMUM 5,000 PSI COMPRESSIVE STRENGTH

NOTE: PLACE CONTROL JOINTS AT 5' O.C. APPROXIMATE CONTROL JOINT PATTERN IS INDICATED ON THE SITE PLAN



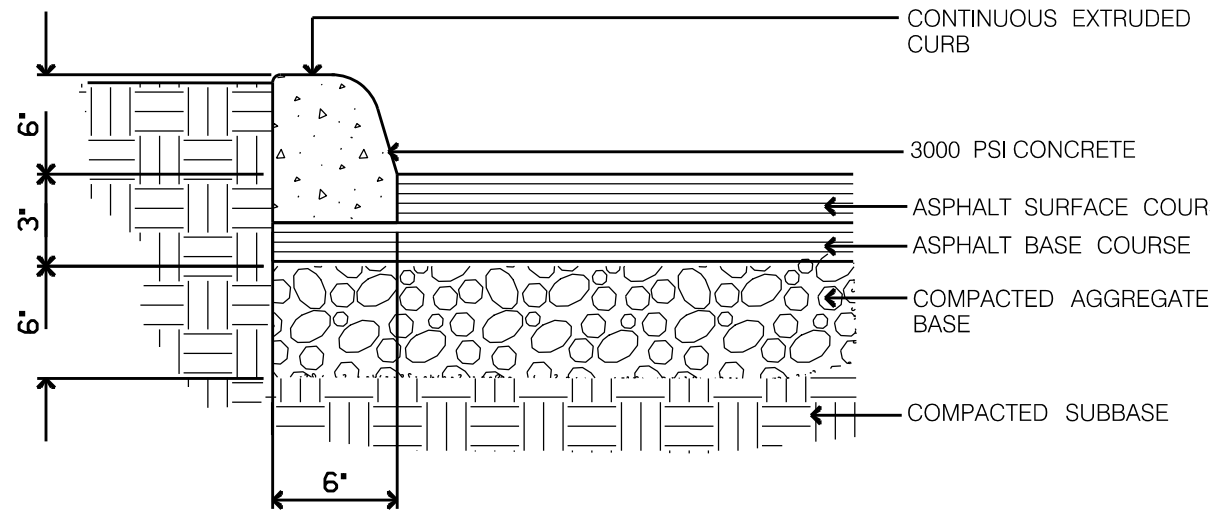
5 EXPANSION JOINT DETAIL
 C201 NOT TO SCALE

NOTE: PLACE EXPANSION JOINTS AT MIN 25' O.C. OR BETWEEN DAYS POURS, WHICHEVER IS CLOSER

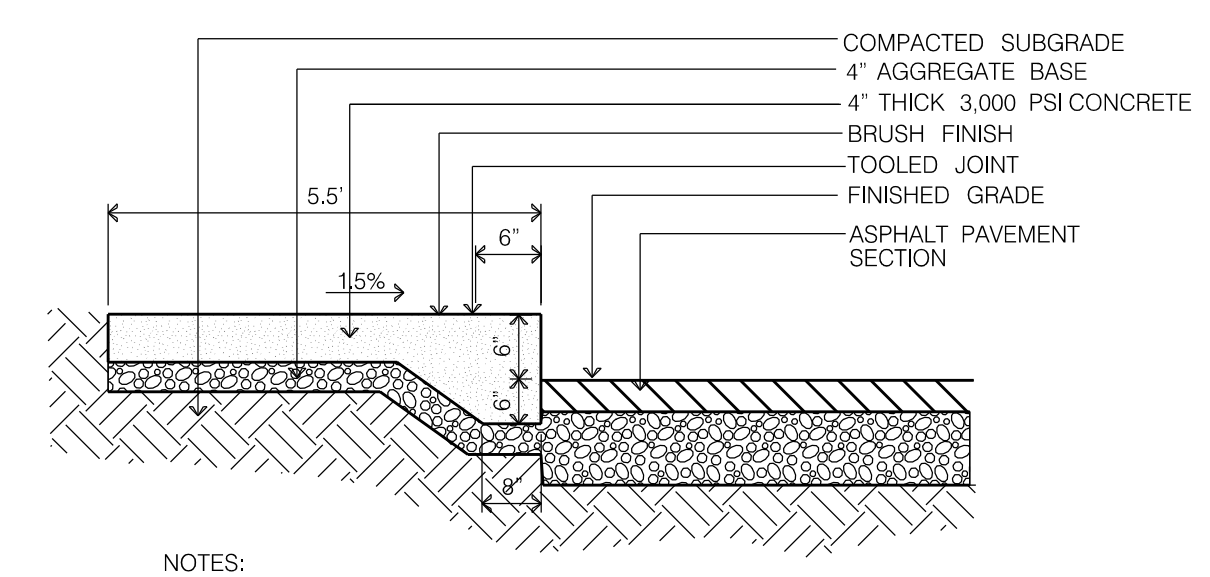


6 THICKENED EDGE DETAIL
 C201 NOT TO SCALE

NOTE: PLACE THICKENED EDGE AT ALL EDGES OF SIDEWALK ADJACENT TO STRUCTURES AND ADJACENT TO OTHER EXISTING CONCRETE

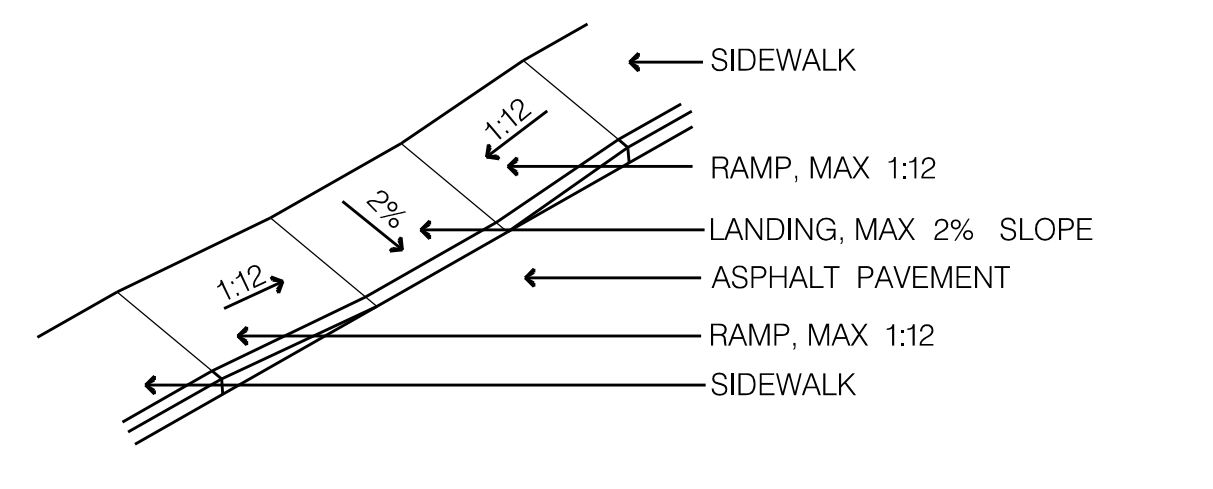


7 TYPICAL CURB
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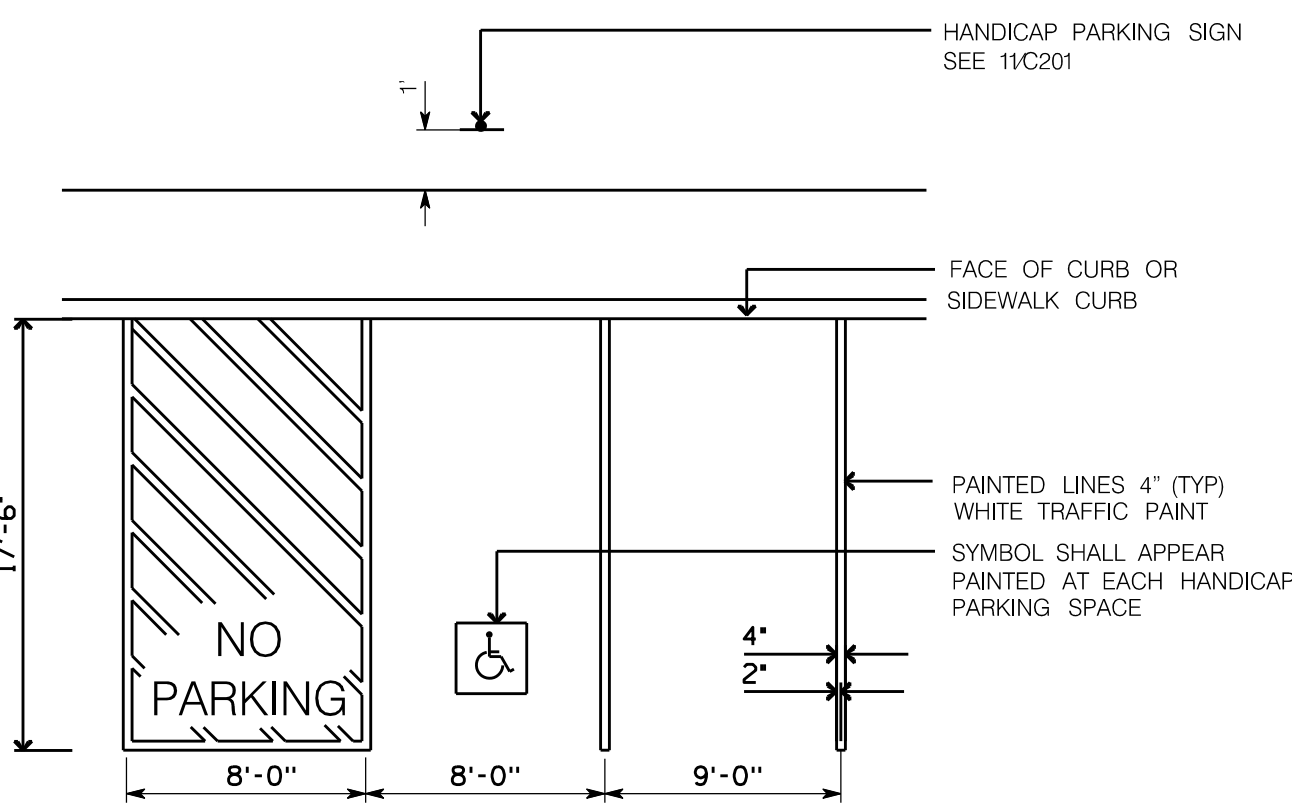


8 SIDEWALK WITH INTEGRAL CURB
 C201 NOT TO SCALE

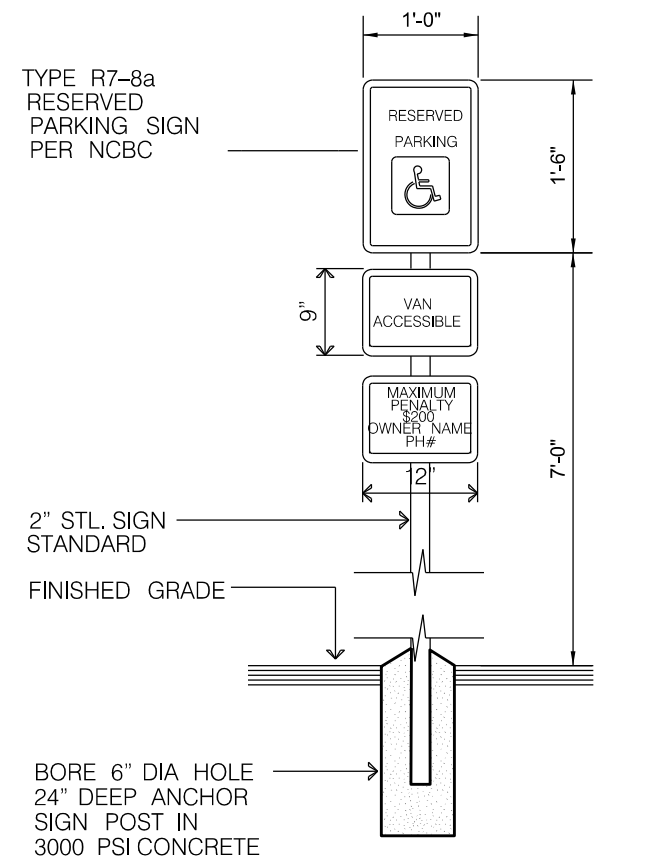
NOTES:
 PERFORMED 12" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 30' MAX CENTERS EQUALLY SPACE 18' CONTRACTION JOINTS AT 10' MAX CENTERS BETWEEN EXPANSION JOINTS.
 EXACT CURB DIMENSIONS MAY BE ALTERED SLIGHTLY TO FIT STANDARD EXTRUDED CURB MACHINES, BUT SUCH VARIANCES MUST BE APPROVED BY THE ENGINEER.
 MAX SLOPE FOR RAMPS SHALL BE 1:12 IN ACCORDANCE WITH ADA REQUIREMENTS.



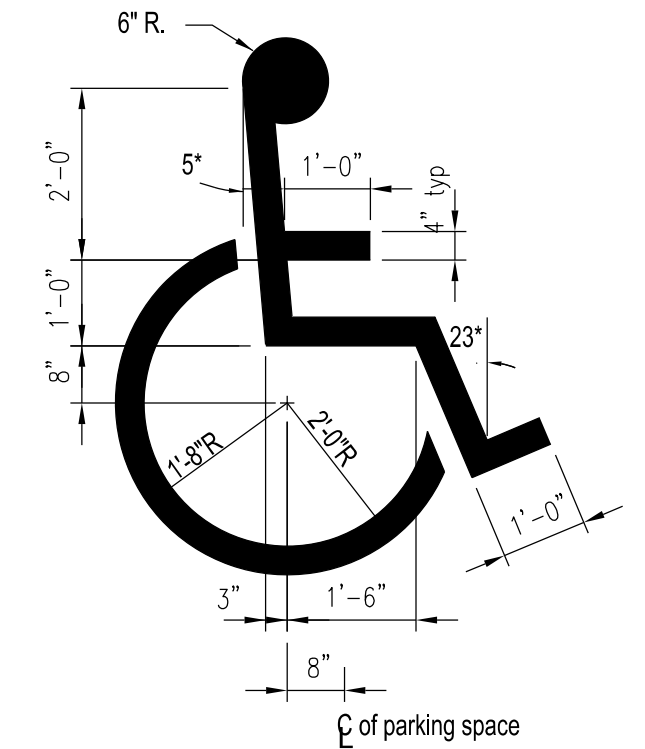
9 ADA SIDE RAMP DETAIL
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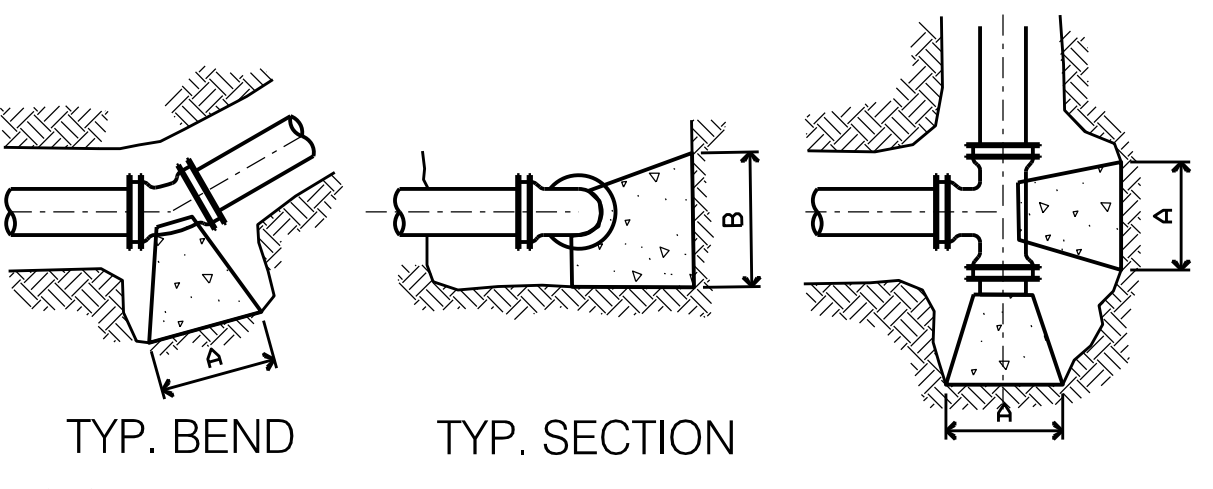
10 TYPICAL PARKING SPACE DETAIL
 C201 NOT TO SCALE



11 HANDICAP SIGN
 C201 NOT TO SCALE



12 ACCESSIBILITY SYMBOL
 C201 NOT TO SCALE

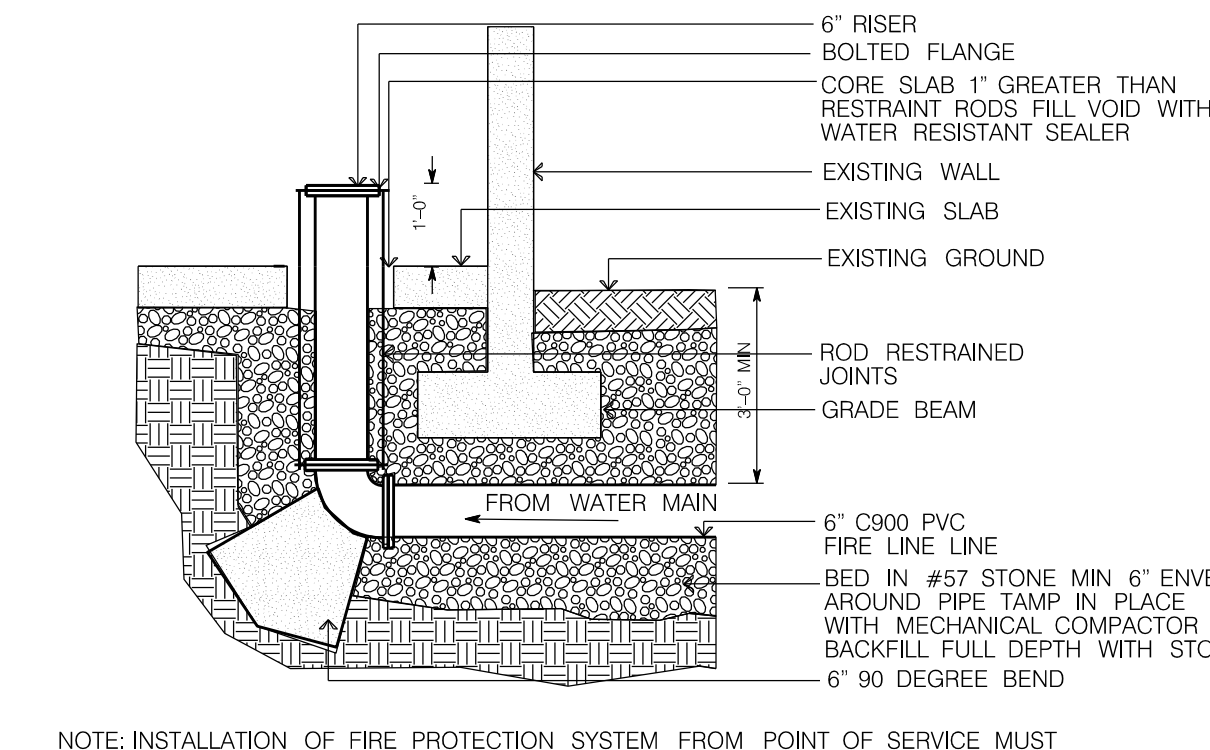


13 THRUST BLOCK DETAIL
 C201 NOT TO SCALE

NOTES:
 1. PROVIDE CLEARANCE FOR BOLT REMOVAL IF REQUIRED.
 2. BEARING AREAS ARE BASED ON 200 PSI INTERNAL TEST PRESSURE, 110 LB/FT SOIL DENSITY AND A 3,000 PSF SOIL BEARING PRESSURE. IF WEAK LESS THAN 3,000 PSF RESISTANCE SOIL POCKETS ARE ENCOUNTERED, INCREASE THE BEARING AREAS SHOWN TO PREVENT MOVEMENT UNDER TEST OR OPERATING PRESSURES.
 3. THRUST BLOCKS SHALL BE 3000 PSI CONCRETE (MIN.)

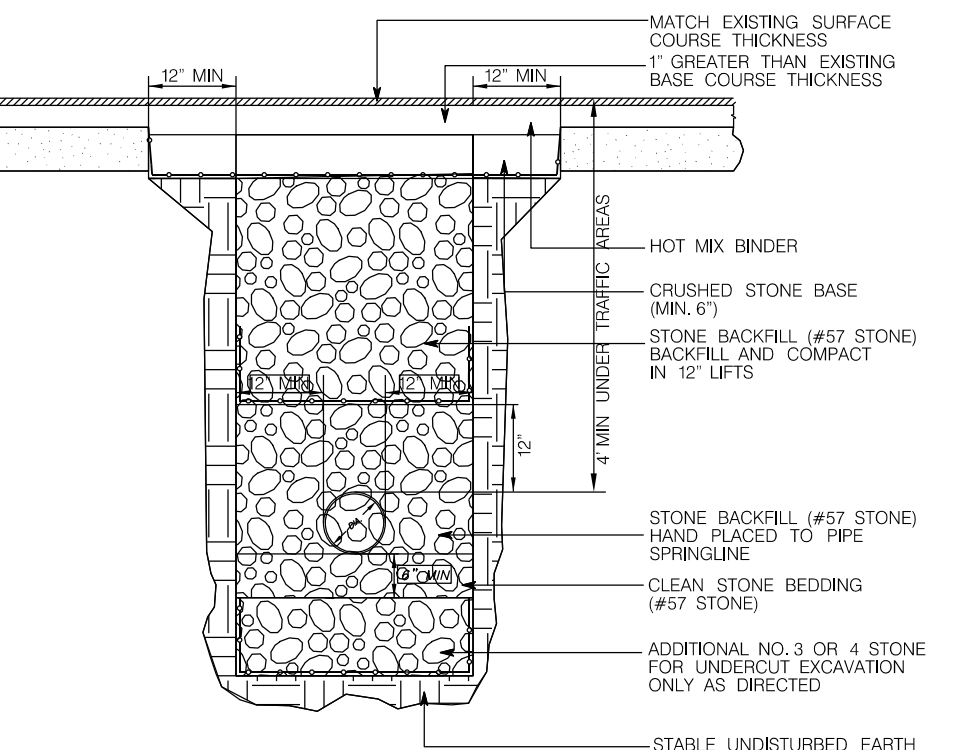
	90 BEND		45 BEND		22 1/2 BEND		11 1/4 BEND		TEES & CAPS	
	A	B	A	B	A	B	A	B	A	B
6"	2'-4"	2'-4"	1'-9"	1'-9"	1'-6"	1'-6"	1'-6"	1'-6"	2'-0"	2'-0"
8"	3'-0"	3'-0"	2'-3"	2'-3"	1'-9"	1'-9"	1'-9"	1'-9"	2'-9"	2'-9"
10"	3'-9"	3'-9"	2'-9"	2'-9"	2'-0"	2'-0"	2'-0"	2'-0"	3'-3"	3'-3"
12"	4'-6"	4'-6"	3'-3"	3'-3"	2'-6"	2'-6"	2'-6"	2'-6"	3'-9"	3'-9"

14 THRUST BLOCK TABLE
 C201 NOT TO SCALE

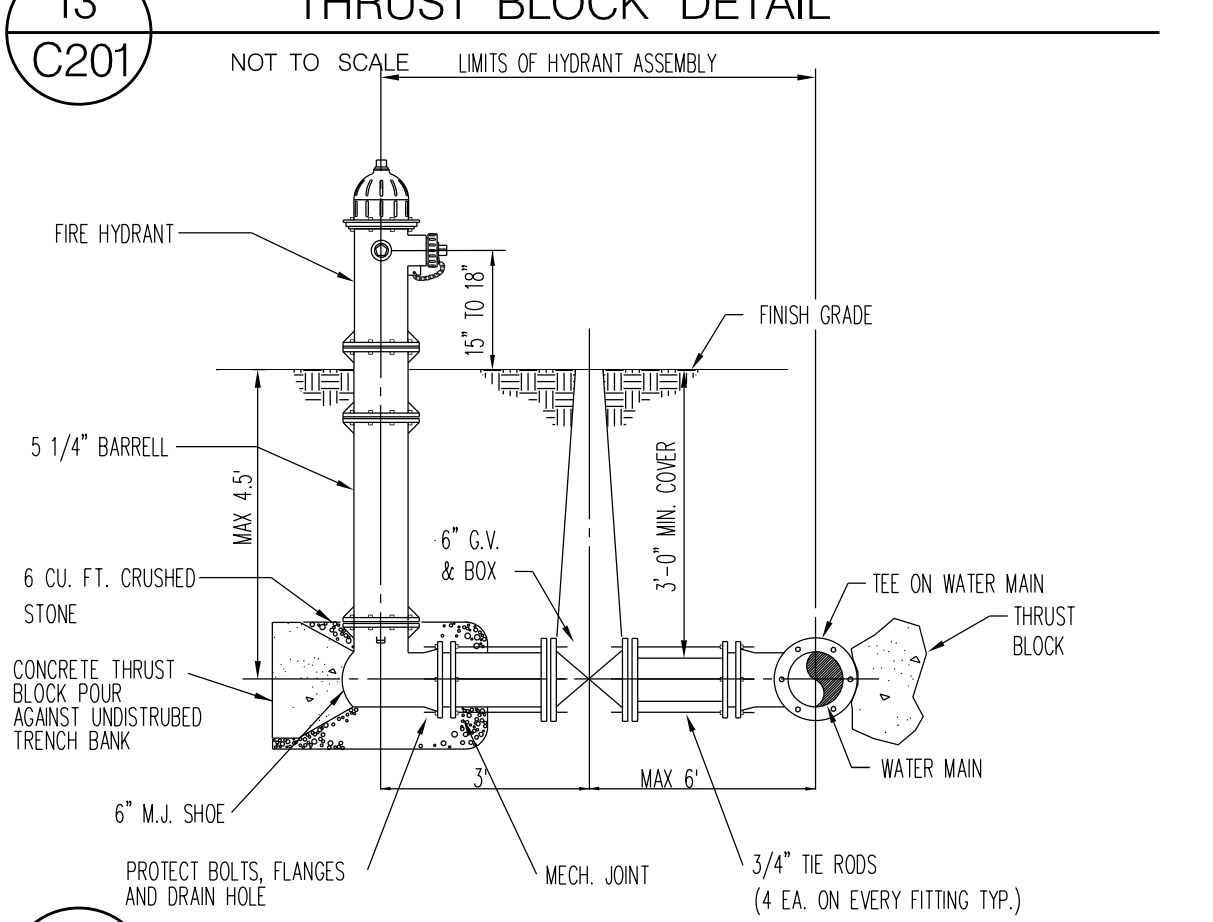


15 FIRE LINE ENTRY DETAIL
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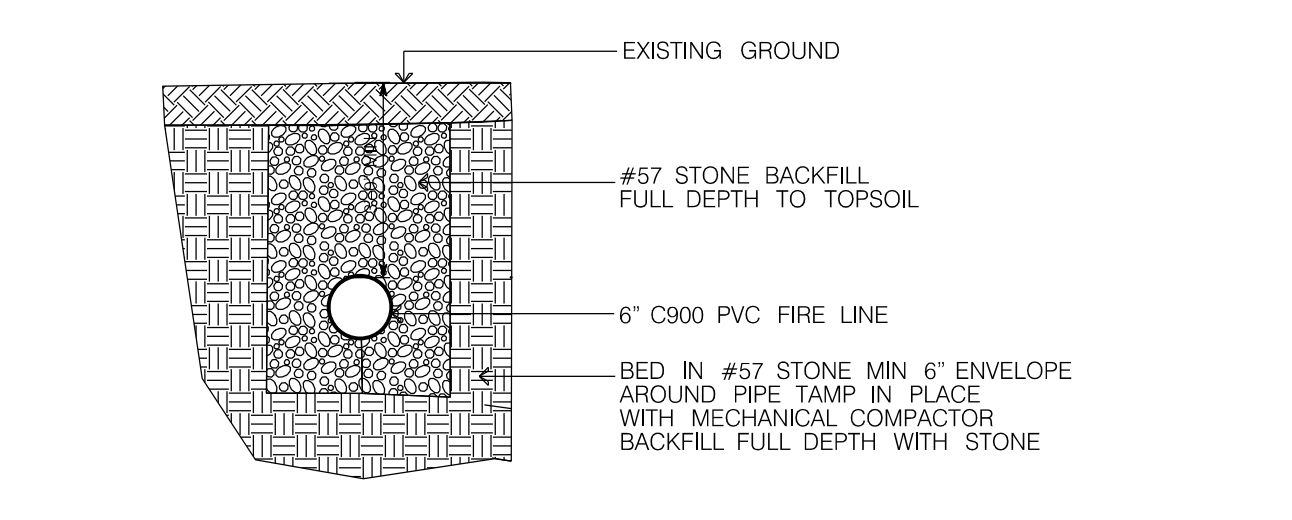
NOTE: INSTALLATION OF FIRE PROTECTION SYSTEM FROM POINT OF SERVICE MUST BE PERFORMED BY A TENNESSEE LICENSED SPRINKLER CONTRACTOR



16 SEWER PIPE BEDDING UNDER PAVEMENT
 C201 NOT TO SCALE

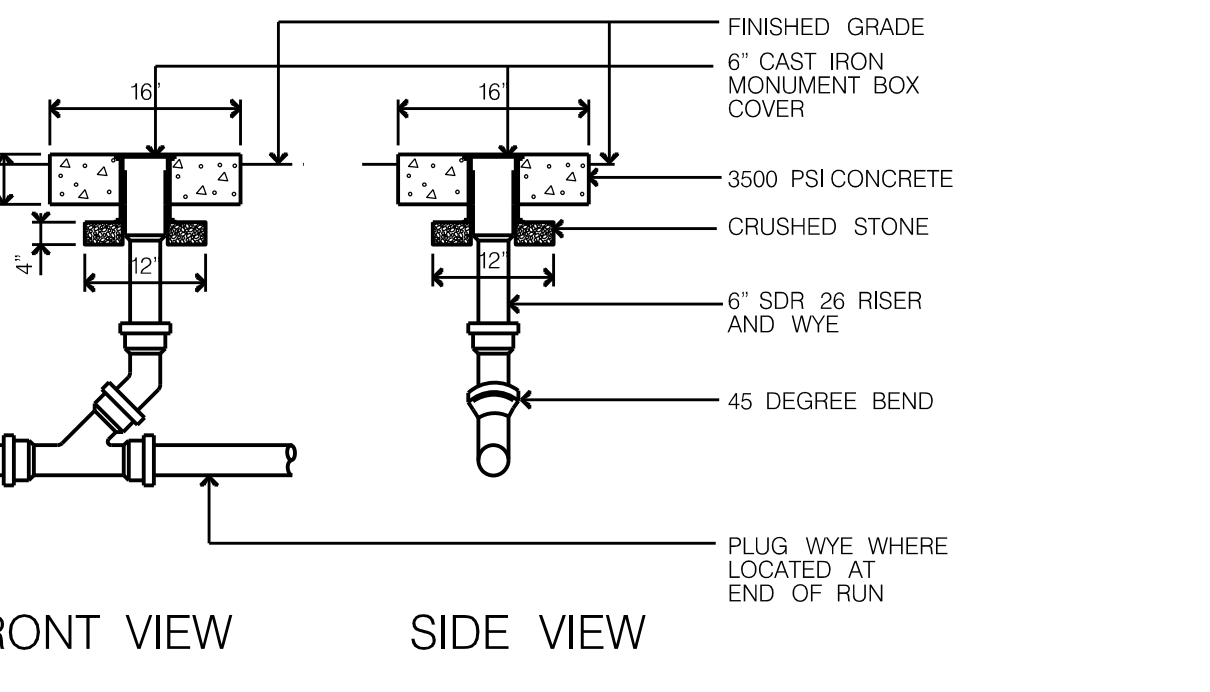


17 TYPICAL HYDRANT DETAIL
 C201 NOT TO SCALE



18 FIRE LINE TRENCH DETAIL
 C201 NOT TO SCALE

NOTE: INSTALLATION OF FIRE PROTECTION SYSTEM FROM POINT OF SERVICE MUST BE PERFORMED BY A TENNESSEE LICENSED SPRINKLER CONTRACTOR



19 SEWER CLEANOUT
 C201 NOT TO SCALE

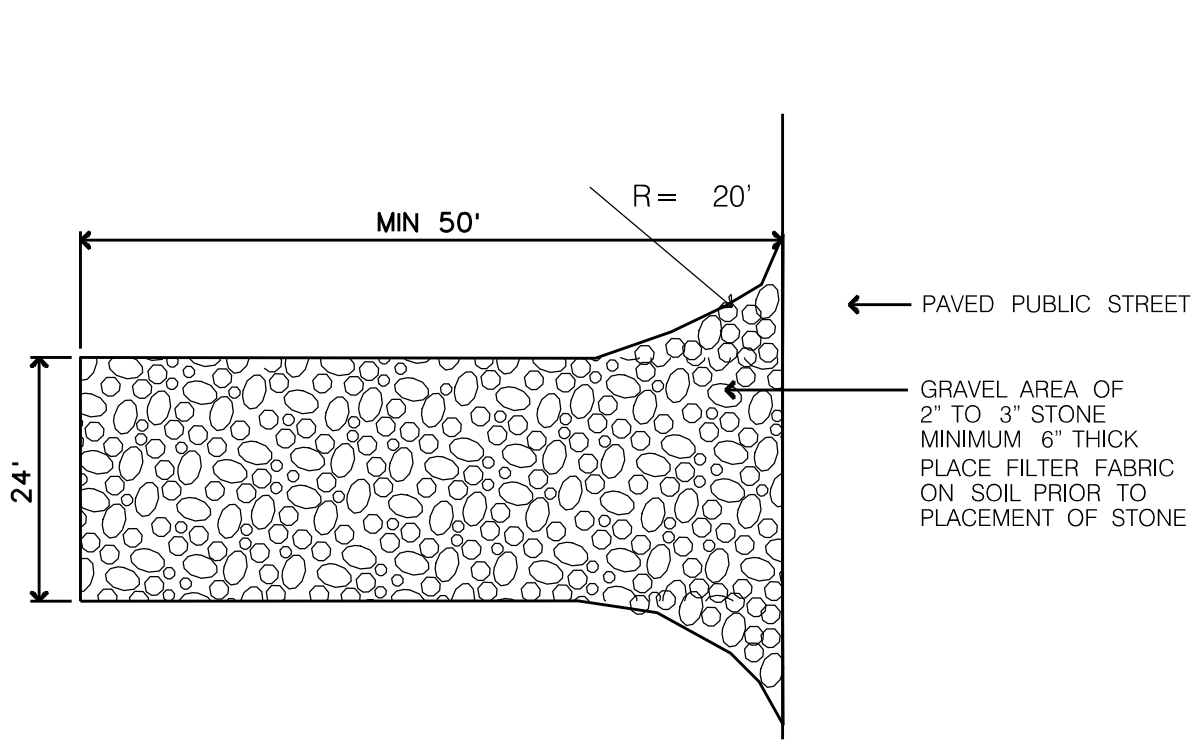
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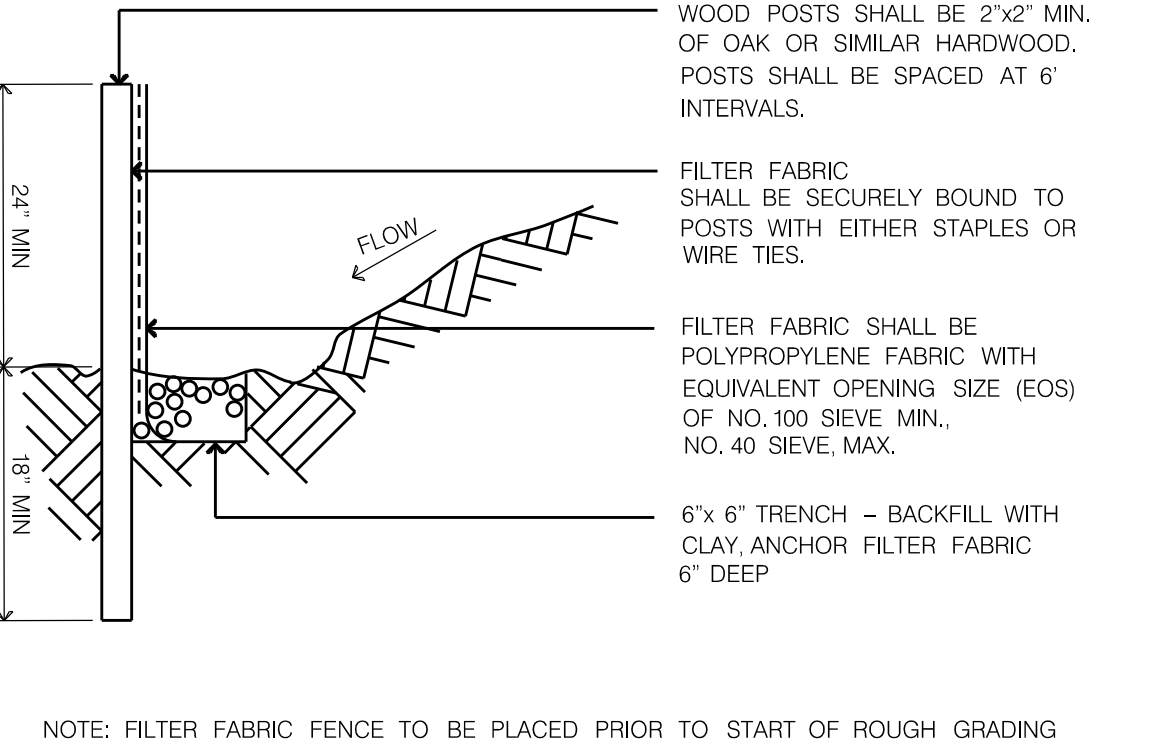
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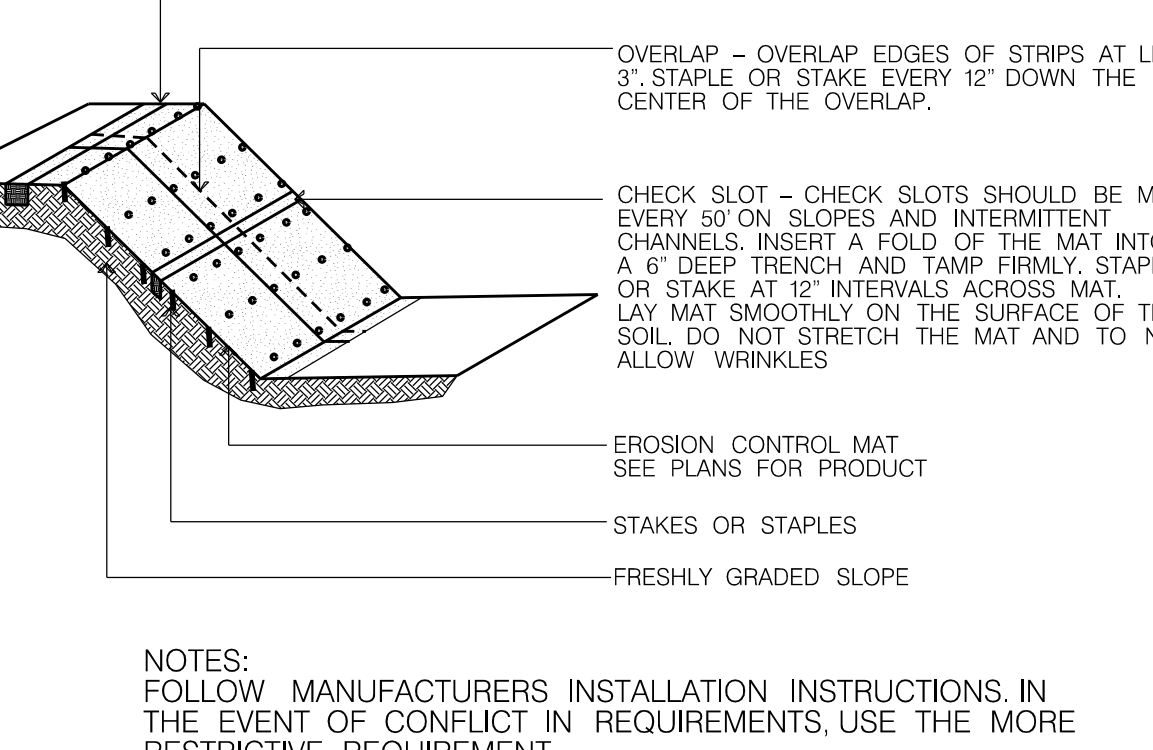
1 CONSTRUCTION ENTRANCE DETAIL
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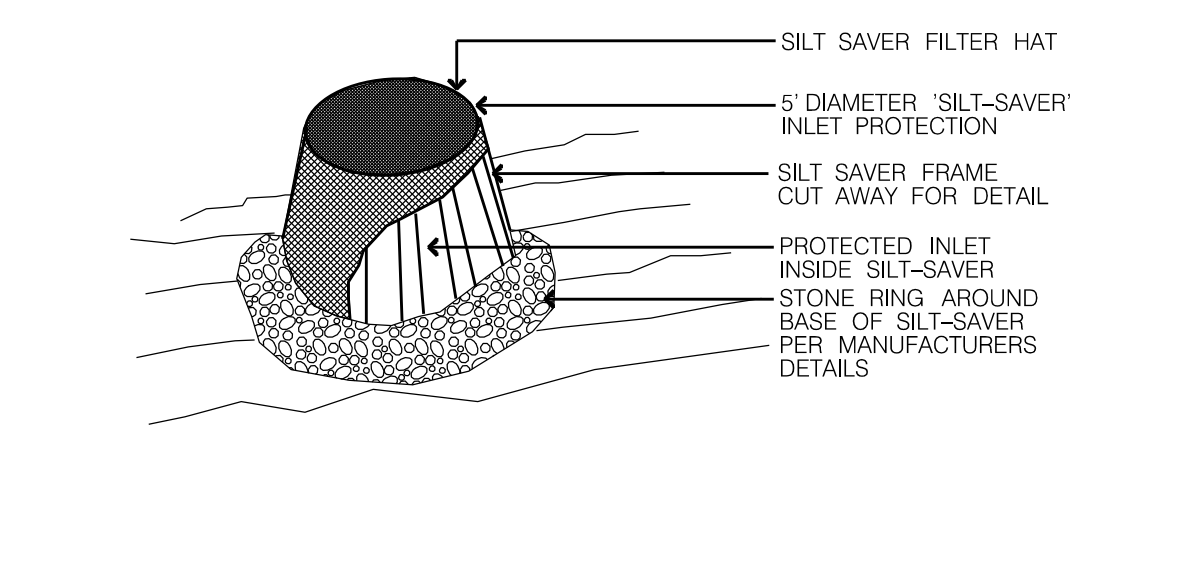
2 SILT FENCE DETAIL
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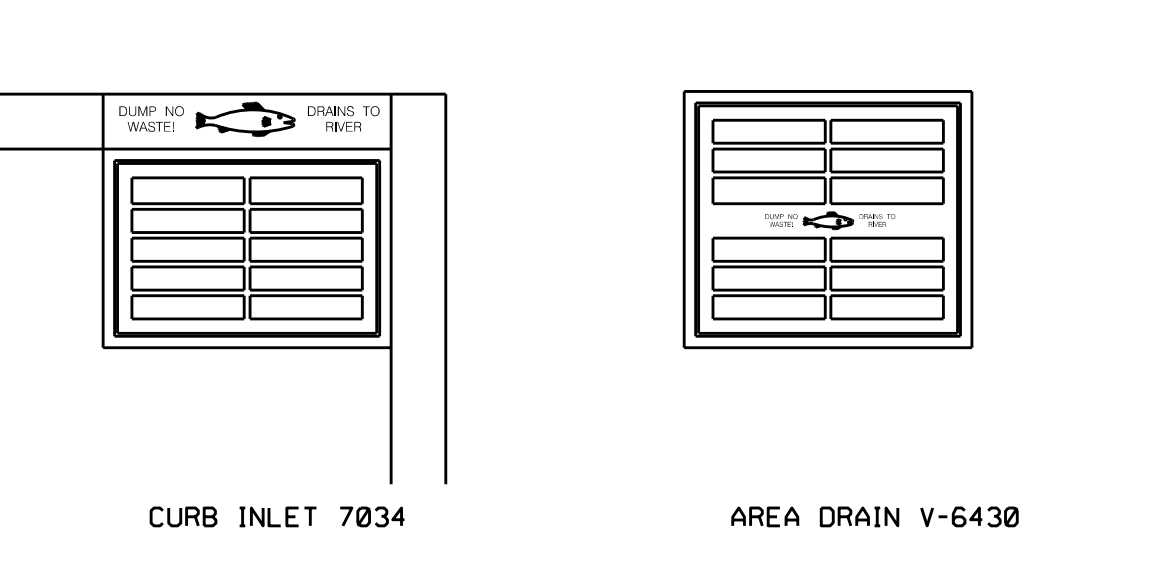
3 EROSION MAT INSTALLATION
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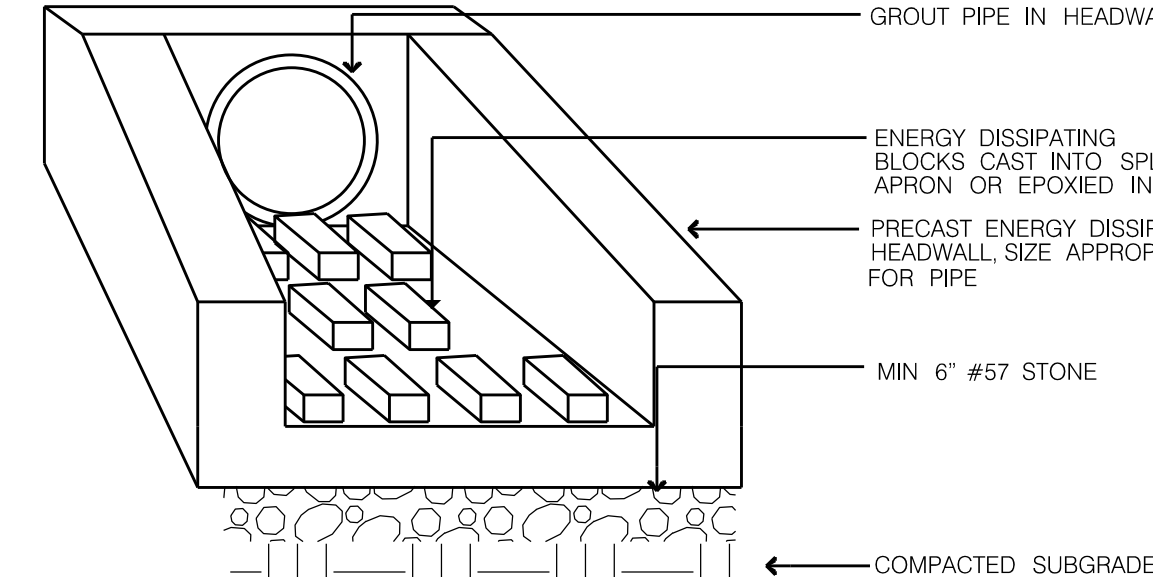
5 INLET PROTECTION DETAIL
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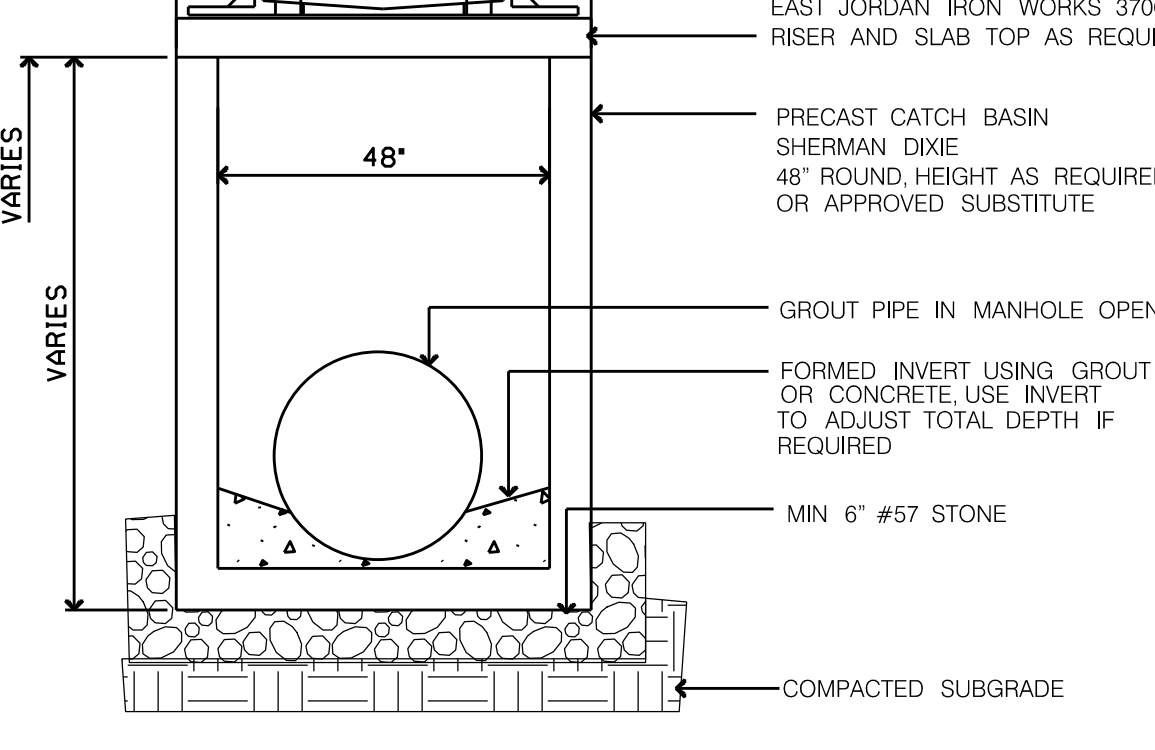
6 ENVIRONMENTAL MESSAGE DETAIL
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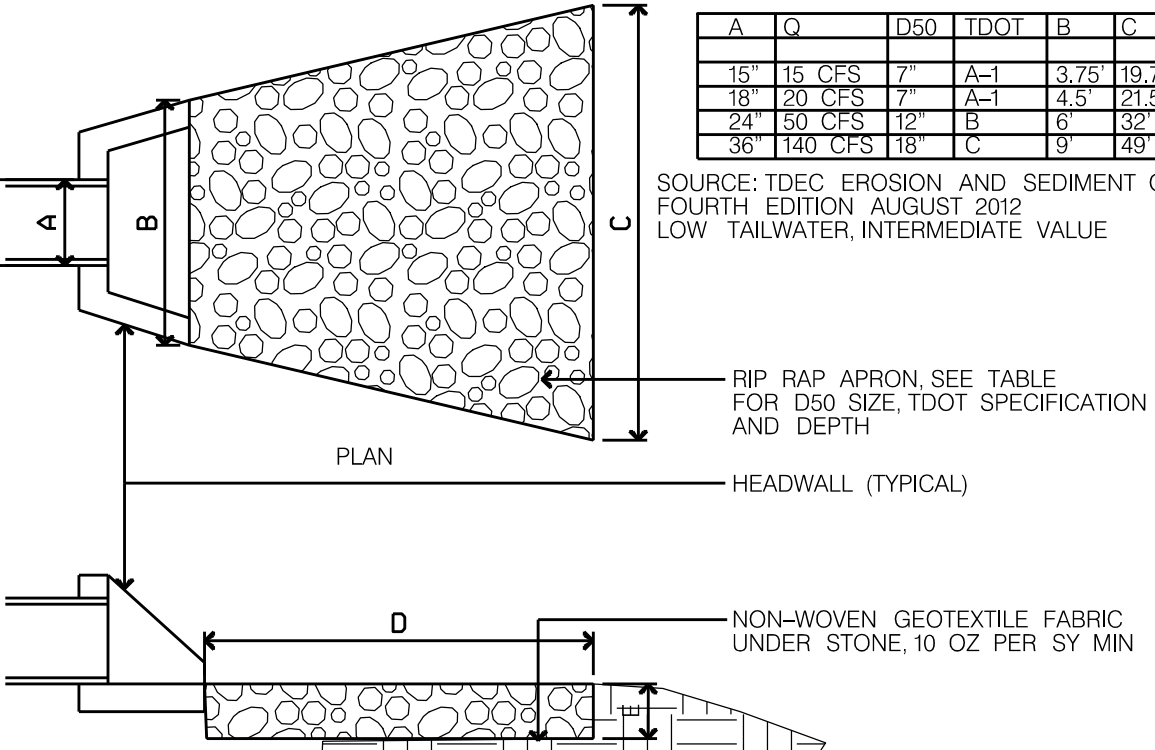
7 ENERGY DISSIPATING HEADWALL DETAIL
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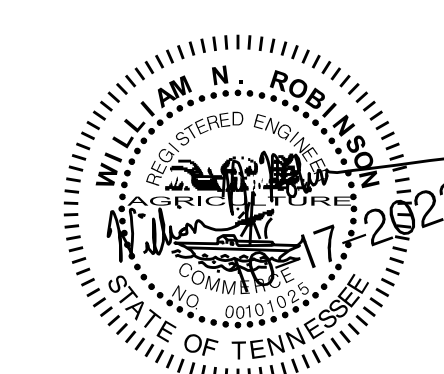
4 48" ROUND CATCH BASIN DETAIL
C202 NOT TO SCALE



8 LOW TAILWATER OUTLET PROTECTION DETAIL
C202 NOT TO SCALE



A	D	D50	D100	R	C	D	E
15'	15'	15'	7'	7'-1"	5.75'	10.75'	16'
18'	18'	18'	9'	9'-1"	7.125'	13'	20'
24'	24'	24'	12'	12'	9.5'	20'	27'
30'	30'	30'	15'	15'	12'	27'	34'



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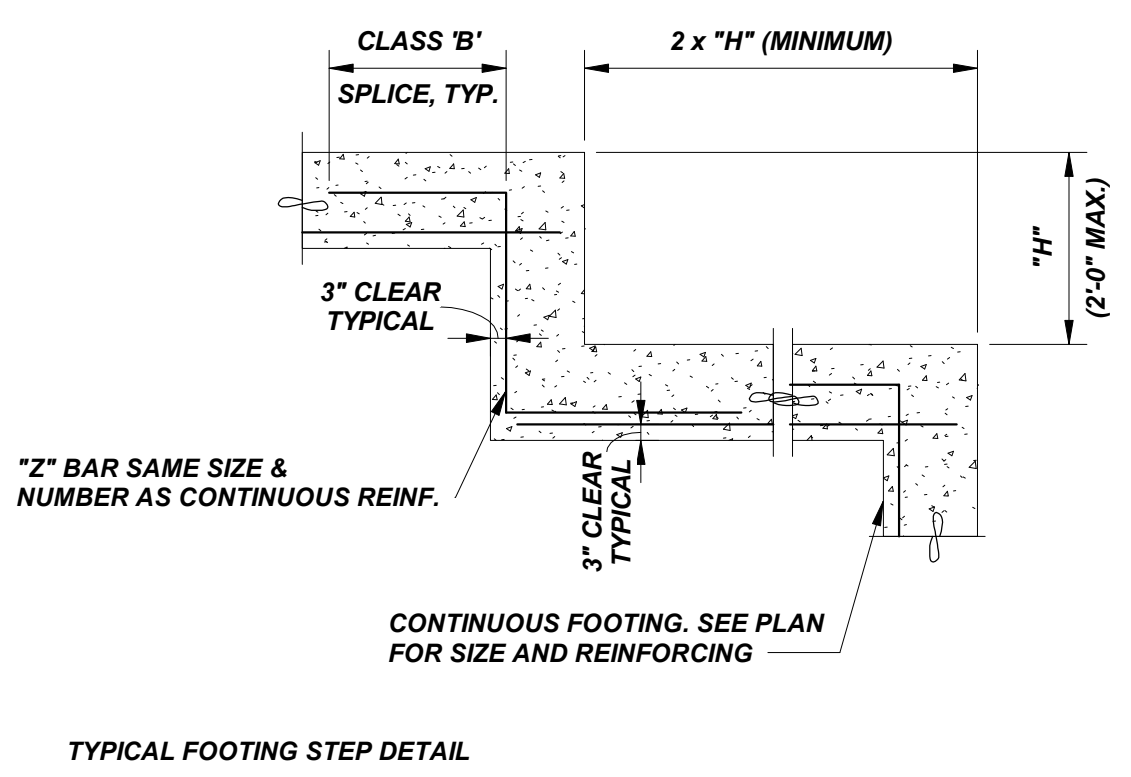
GENERAL NOTES :

- 1.01 ALL CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED AND PUBLISHED UNLESS SPECIFIED OTHERWISE.
1.02 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
1.03 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE STARTING WORK. NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCY. NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRARY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

DESIGN LOADS : 2012 IBC
DEAD LOADS: ROOF 2.88 PSF + 5 PSF COLLATERAL
LIVE LOADS: ROOF 20 PSF, FLOOR SLAB SLAB-ON-GRADE 100 PSF
WIND LOADS: ULTIMATE DESIGN WIND SPEED 115 MPH, EXPOSURE CATEGORY C, OCCUPANCY CATEGORY II, IMPORTANCE FACTOR 1.0

FOUNDATION NOTES :

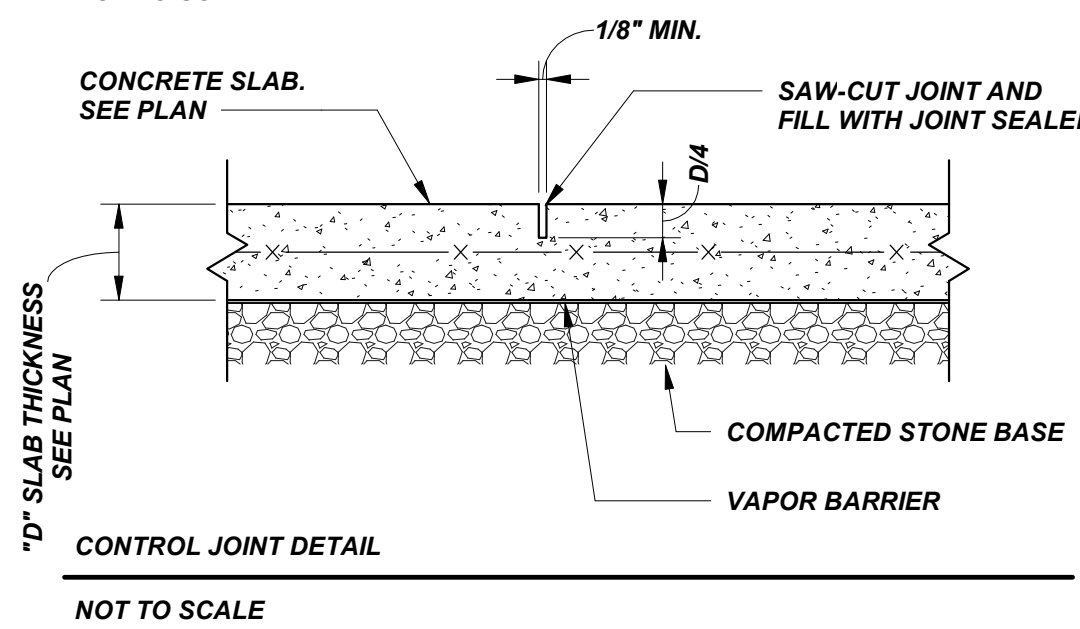
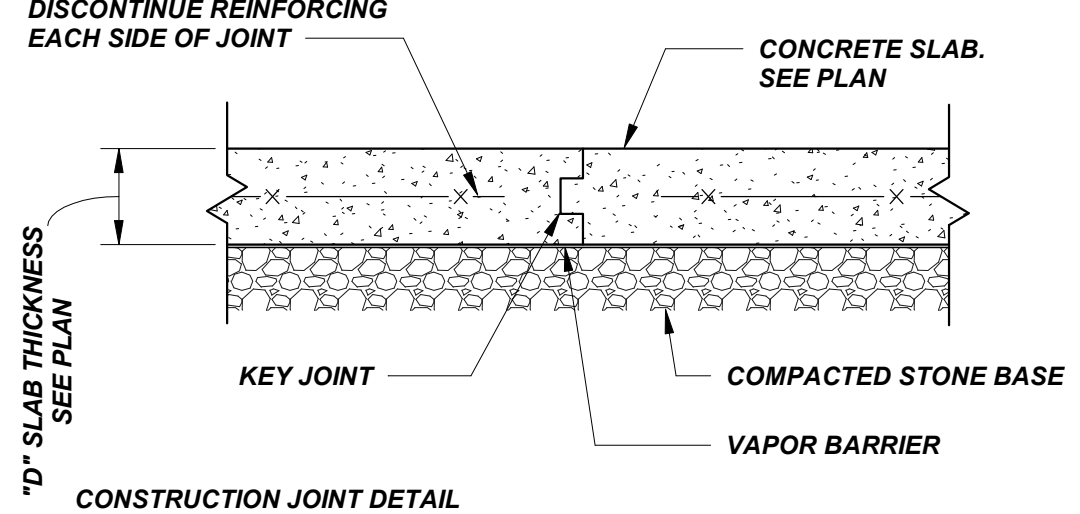
- 2.01 THE DESIGN OF FOUNDATIONS, RETAINING WALLS, AND SLABS ON GRADE ARE BASED ON THE RECOMMENDATIONS OF THE SOILS REPORT FROM S&ME (PROJECT NO. 23430249) DATED AUGUST 9, 2023.
2.02 OWNER OR CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADE, FILLS, AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTING, SLABS, WALLS, FILLS, BACKFILLS, ETC.



- 2.06 THE BOTTOM OF FOOTINGS SHALL BEAR BELOW THE FROST DEPTH AS SPECIFIED IN THE GEOTECHNICAL REPORT OR BY THE LOCAL MUNICIPALITY.
2.07 FOOTINGS MUST BE BACKFILLED BEFORE THE STRUCTURE IS CONSIDERED STABLE. CONCRETE SLAB SHALL REACH 28 DAY COMPRESSIVE STRENGTH BEFORE THE STRUCTURE IS CONSIDERED STABLE.

REINFORCED CONCRETE NOTES :

- 3.01 ALL CONCRETE WORK SHALL CONFORM TO ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
3.02 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS.



- 3.06 CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4".
3.07 DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 318 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES.

- 3.08 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED BARS UNLESS NOTED OTHERWISE.
3.09 TIE ALL REINFORCING STEEL AND EMBEDMENT SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITH SPECIFIED TOLERANCE DURING ALL CONSTRUCTION ACTIVITIES.

- 3.12 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.
3.13 THE DESIGN AND CONSTRUCTION OF FORMS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- 3.14 SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED 75% OF ITS 28 DAY STRENGTH.
3.15 ALL REINFORCING STEEL PLACEMENT SHALL BE REVIEWED BY THE GENERAL CONTRACTOR FOR COMPLIANCE WITH APPROVED SHOP DRAWINGS AND THE REQUIREMENTS OF THE SPECIFICATIONS.

- 3.16 THE FOLLOWING REINFORCING IS TO BE PROVIDED UNLESS NOTED OR DETAILED OTHERWISE.
A. PROVIDE CORNER BARS WITH CLASS 'B' SPLICE IN CORNERS OF ALL FOOTINGS, AND REINFORCED WALLS. PROVIDE SAME BAR SIZE, NUMBER OF BARS, AND SPACING AS CONTINUOUS HORIZONTAL REINFORCEMENT.
B. PROVIDE 'Z' BARS IN ALL FOOTING STEPS FOR EACH CONTINUOUS BAR.

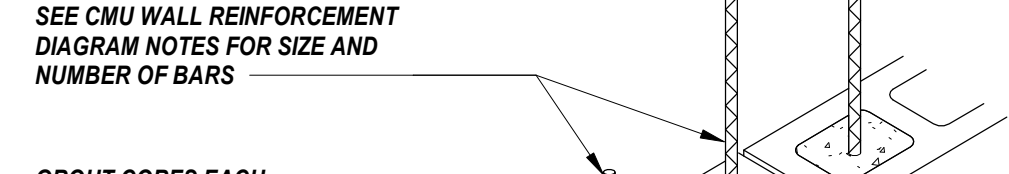
- 3.17 FOR MISC. CONCRETE PADS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
3.18 DO NOT PLACE PIPES OR CONDUIT IN THE PLANE OF SLABS ON GRADE. DO NOT PLACE PIPES OR DUCTS WITH DIAMETER EXCEEDING ONE HALF OF THE PENETRATED WALL THICKNESS THROUGH THE WALL UNLESS SPECIFICALLY SHOWN OR DETAILED ON THE STRUCTURAL DRAWINGS.

REINFORCING EMBEDMENT/SPICE LENGTHS table with columns for SIZE and MINIMUM SPICE LENGTH (INCHES). Rows for sizes 3, 4, 5, 6 with corresponding lengths 19, 25, 31, 37.

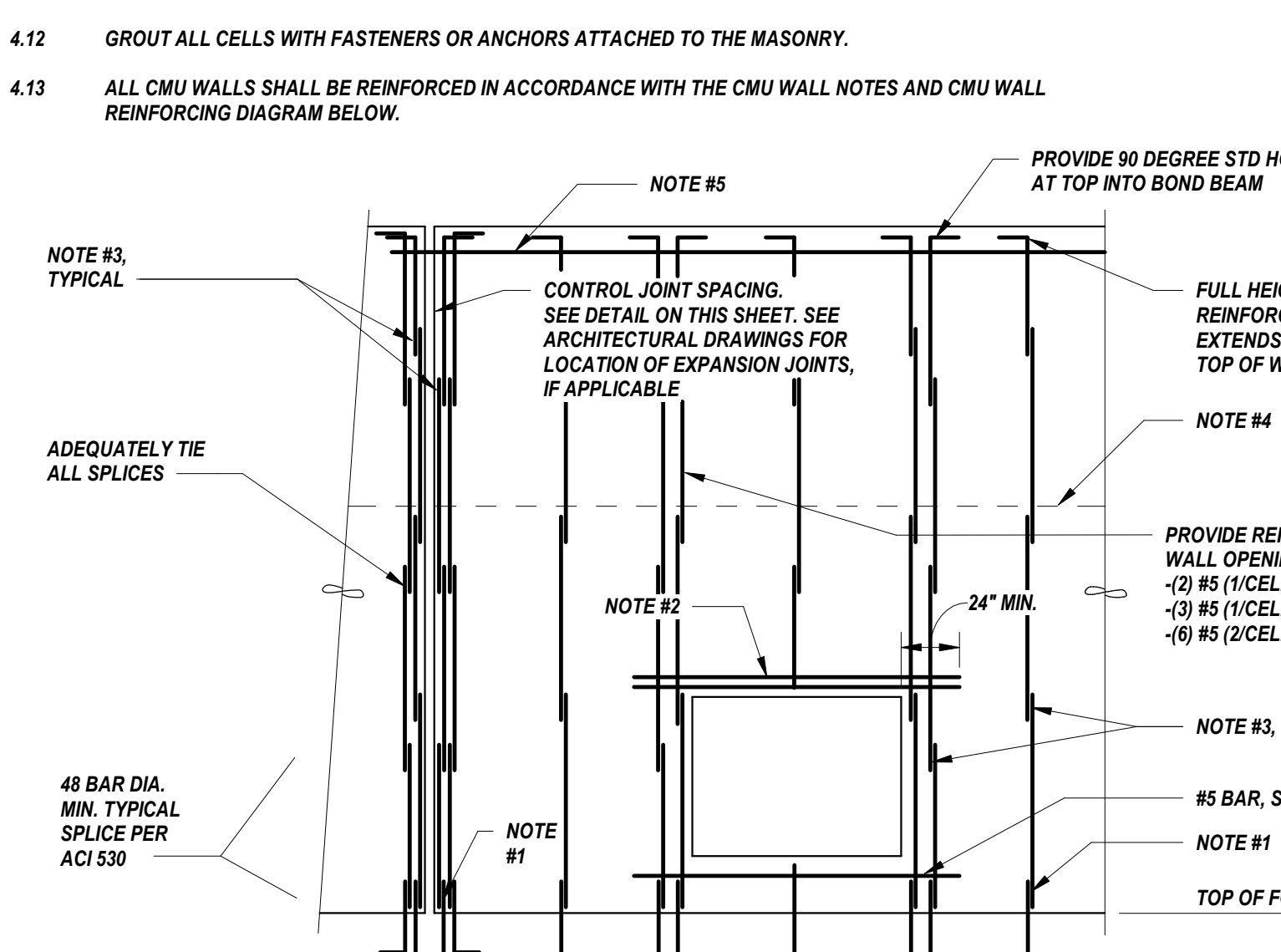
- 3.20 SEE CIVIL DRAWINGS FOR EXTERIOR SIDEWALKS OR CONCRETE PAVING.
3.21 REFER TO DRAWING OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3.22 PROVIDE BONDING AGENT ON CONCRETE SURFACES THAT WILL BE JOINED WITH FRESH CONCRETE.

MASONRY NOTES :

- 4.01 ALL MASONRY CONSTRUCTION TO BE IN CONFORMANCE WITH ACI 530/ASCE 5, 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES' AND ACI 530.1/ASCE 6, 'SPECIFICATIONS FOR MASONRY STRUCTURES'.
4.02 MASONRY COMPRESSIVE STRENGTH SHALL BE 1/10TH 1500.0 PSI. ALL MASONRY UNITS SHALL CONFORM TO ASTM C90. MASONRY GROUT SHALL BE FINE GROUT WITH FINE AGGREGATE CONFORMING TO THE REQUIREMENTS OF ASTM C476 AND C404. MASONRY GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.

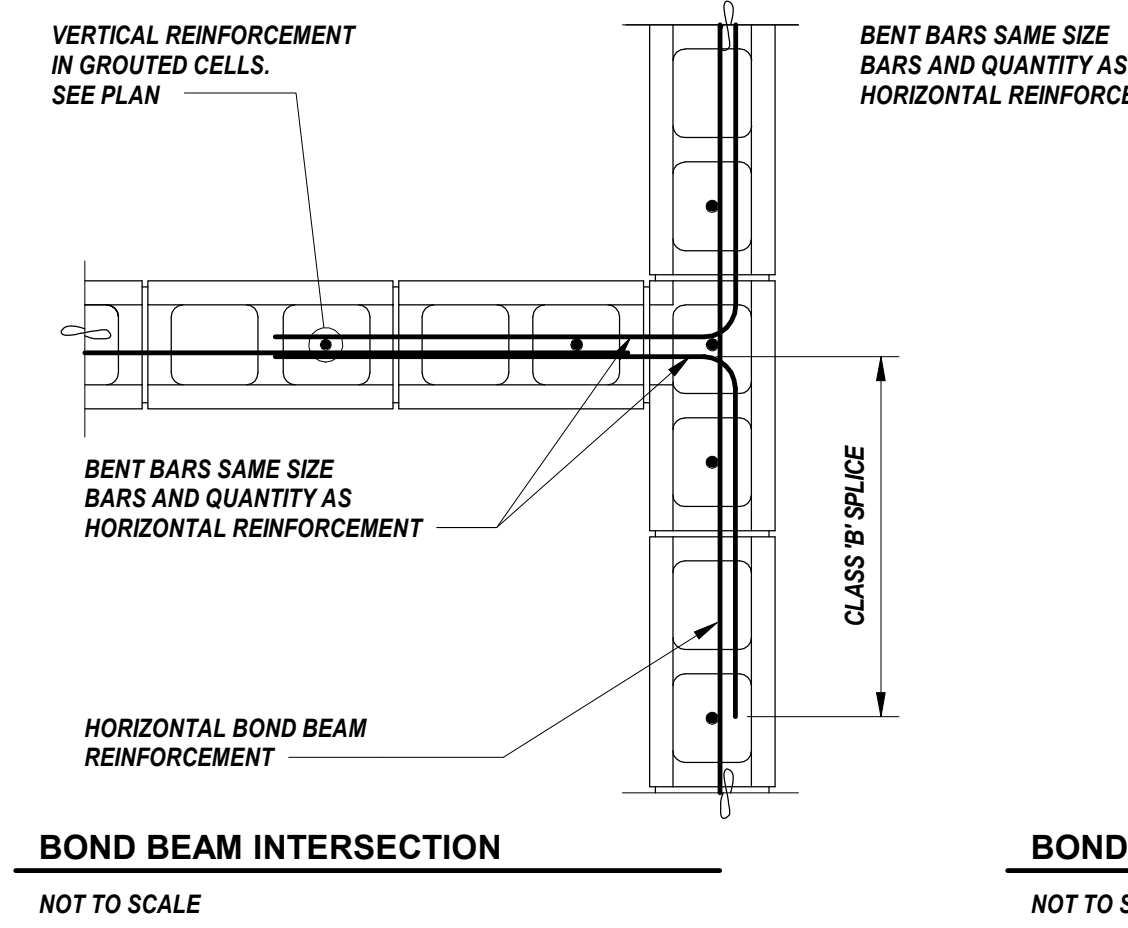


- 4.12 GROUT ALL CELLS WITH FASTENERS OR ANCHORS ATTACHED TO THE MASONRY.
4.13 ALL CMU WALLS SHALL BE REINFORCED IN ACCORDANCE WITH THE CMU WALL NOTES AND CMU WALL REINFORCING DIAGRAM BELOW.



MASONRY NOTES CONTINUED :

- 1. PROVIDE VERTICAL FOUNDATION DOWELS INTO THE WALL FOOTINGS AND THICKENED SLABS AT ALL VERTICAL WALL REINFORCING. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED IN CENTER OF CMU WALL WITH ACI STANDARD HOOK. HOOK DIRECTLY ON TOP OF BOTTOM LAYER OF REINFORCING.
2. LINTEL REINFORCEMENT, REFER TO CMU LINTEL SCHEDULE ON HEADER PLANS SIZE, LOCATION, AND QUANTITY OF REINFORCEMENT.



WOOD NOTES :

- 5.01 ALL LUMBER TO BE #2 SOUTHERN PINE, OR BETTER KILN DRIED, UNLESS NOTED OTHERWISE. 2x4 NON-BEARING STUDS CAN BE SPF STUD GRADE. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED TO A MINIMUM RETENTION LEVEL OF 0.25. PRESSURE TREATED LUMBER USED AS A BEARING PLATE SHALL BE KILN DRIED AFTER TREATMENT. OTHER LUMBER SHALL BE EQUAL TO OR GREATER THAN THE FOLLOWING:

Table with columns: MEMBER, SPECIES, GRADE, Fb, Fc. Lists various wood members like 2x4, 2x6, 2x8, 2x10, 2x12, LVL, LSL RIM BOARD, PSL COLUMN with their properties.

- 5.02 CONTRACTOR SHALL USE SIMPSON STRONG TIE (OR APPROVED EQUAL) WOOD FRAMING ANCHORS, CONNECTORS, HANGERS, ETC. FOR ALL WOOD TO WOOD CONNECTIONS. ALL ANCHORS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS IN ORDER TO ACHIEVE MAXIMUM CONNECTOR CAPACITY.
5.03 CUTTING, NOTCHING, BORED HOLES IN STUD WALLS, RAFTER, ETC., SHALL BE DONE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE SECTION 2304.

ISSUE LOG table with columns: NO., ISSUED BY, DATE. Includes entry P1 PERMITTING 2023-11-10.

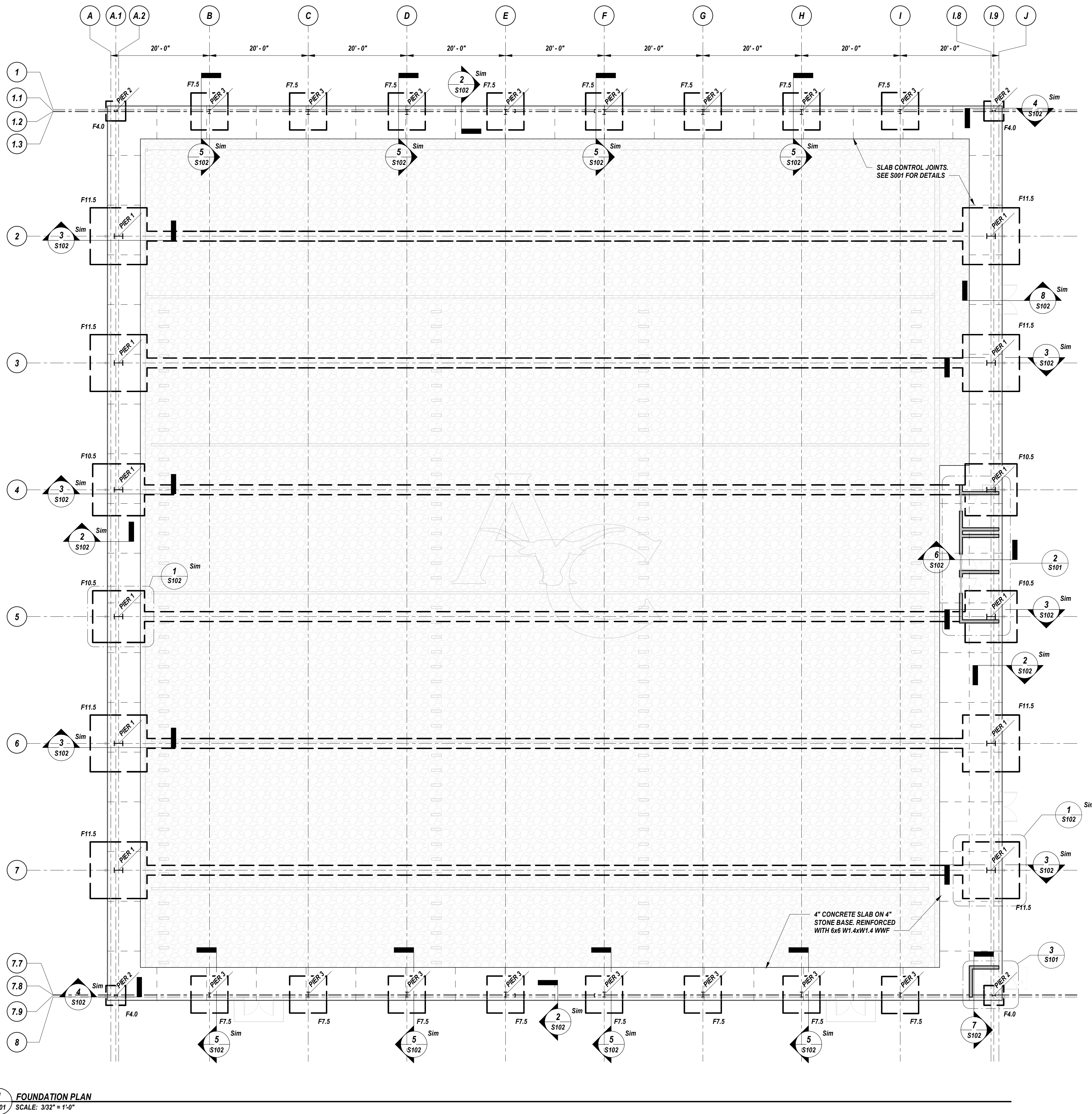
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STRUCTURAL FOUNDATION NOTES

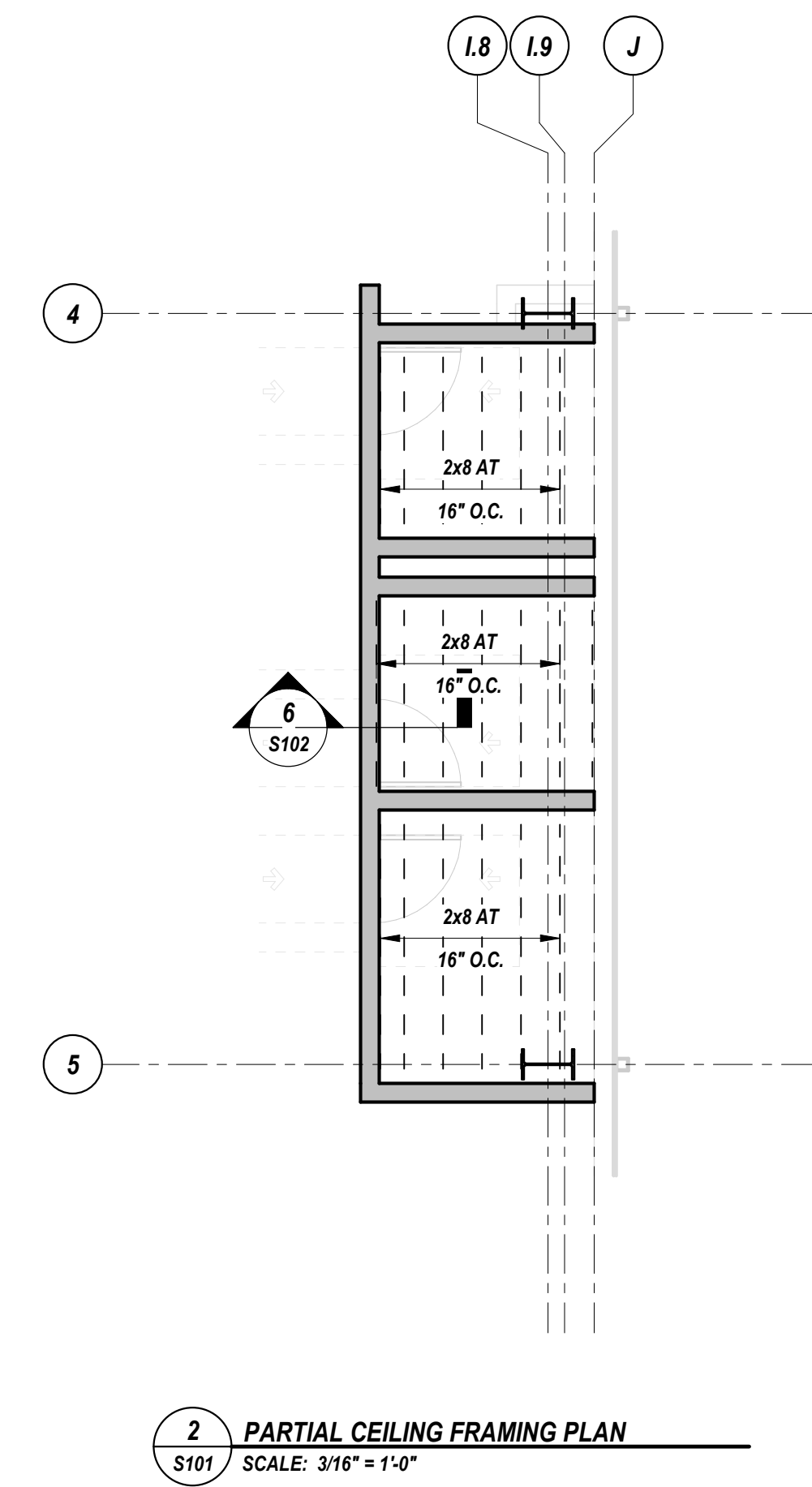
1. VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS
2. VERIFY ALL COLUMNS, COLUMN LAYOUT AND ANCHOR BOLT LAYOUT WITH THE PERMS MANUFACTURER
3. VERIFY OPENINGS AND CANOPY LOCATIONS WITH ARCHITECTURAL DRAWINGS

STRUCTURAL FOUNDATION SCHEDULE

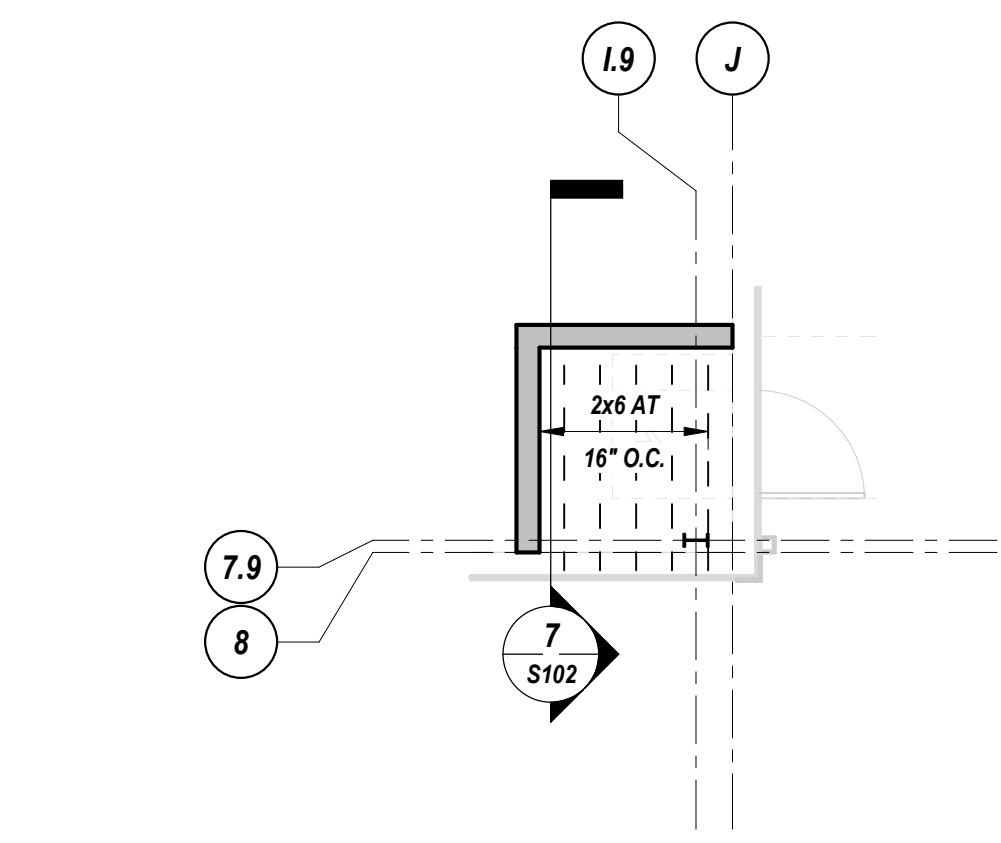
MARK	SIZE	REINFORCEMENT	ANCHOR BOLT EMBEDMENT
F4.0	4'-0" x 4'-0" x 1'-0" (4) #5 EACH WAY, BOTTOM		6"
F7.5	7'-8 1/2" x 6'-1" x 1'-0" 7 #5 BARS TOP AND BOTTOM, EACH DIRECTION		8"
F10.5	10'-6 1/2" x 4'-2" x 1'-0" 10 #5 BARS TOP AND BOTTOM, EACH DIRECTION		15"
F11.5	11'-6 1/2" x 11'-6 1/2" x 2'-0" 11 #5 BARS TOP AND BOTTOM, EACH DIRECTION		18"



1 FOUNDATION PLAN
S101 SCALE: 3/32" = 1'-0"



2 PARTIAL CEILING FRAMING PLAN
S102 SCALE: 3/16" = 1'-0"



3 PARTIAL CEILING FRAMING PLAN
S101 SCALE: 3/16" = 1'-0"

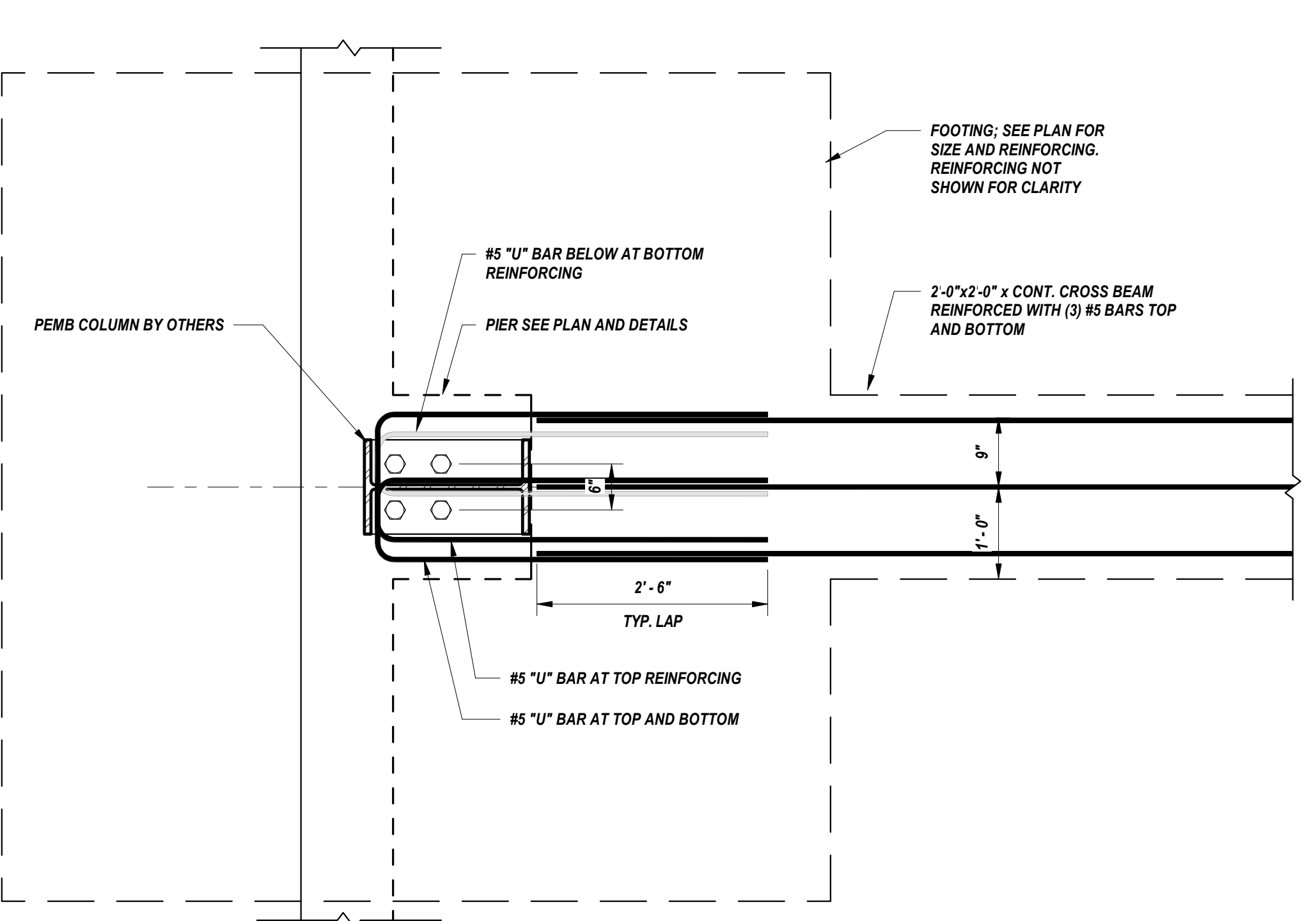


NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

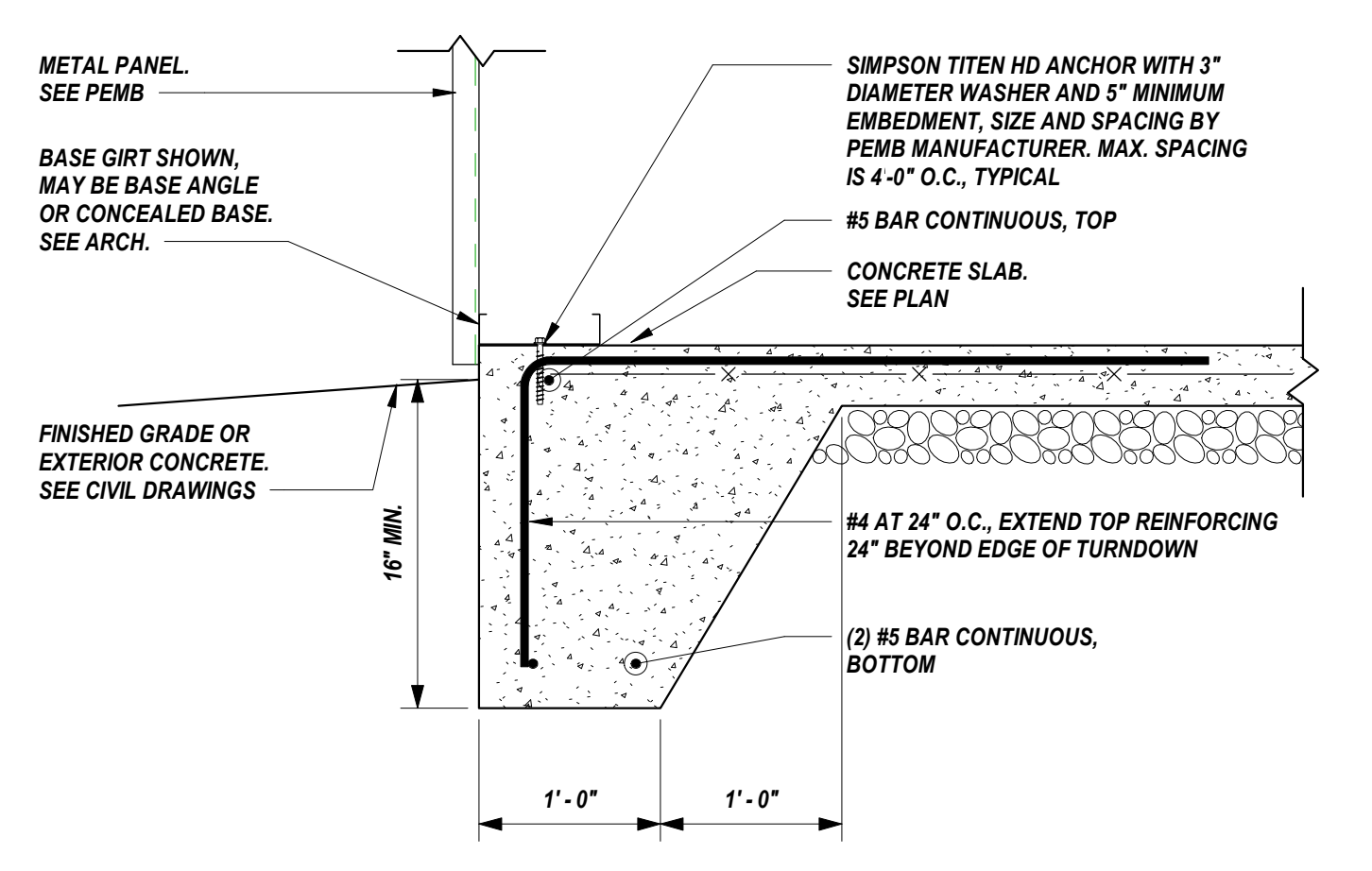
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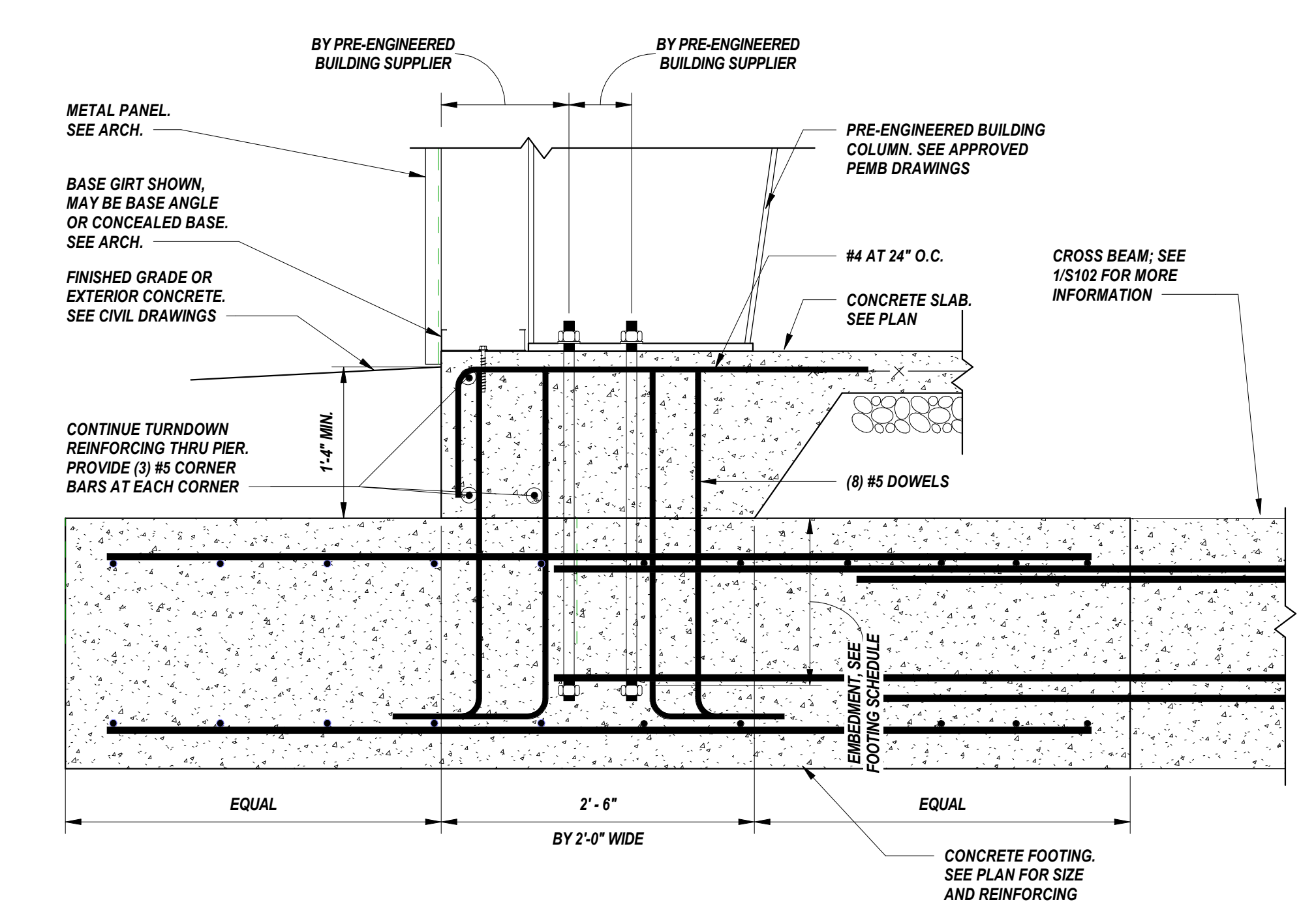
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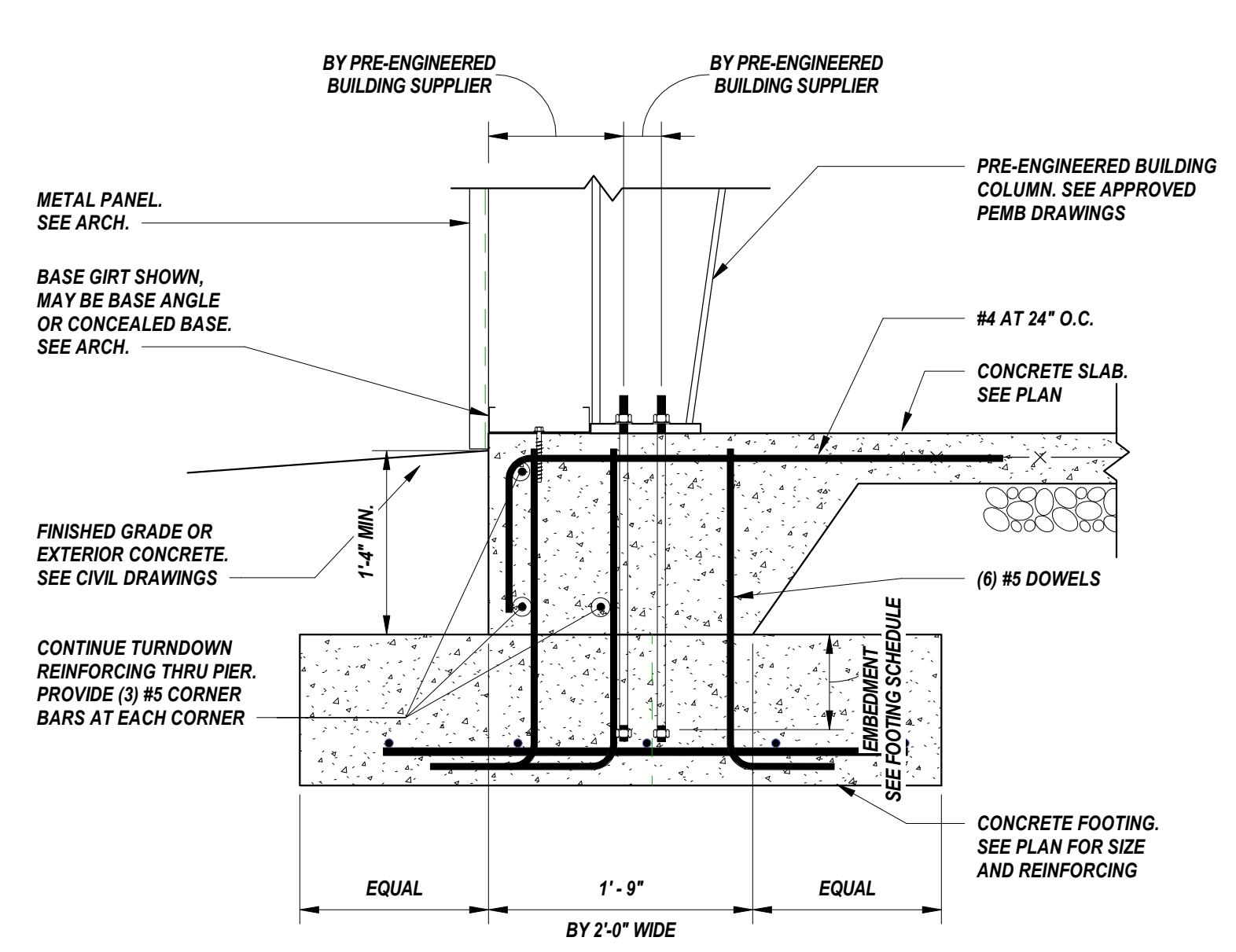
1 DETAIL - CROSS BEAM
S102 SCALE: NTS



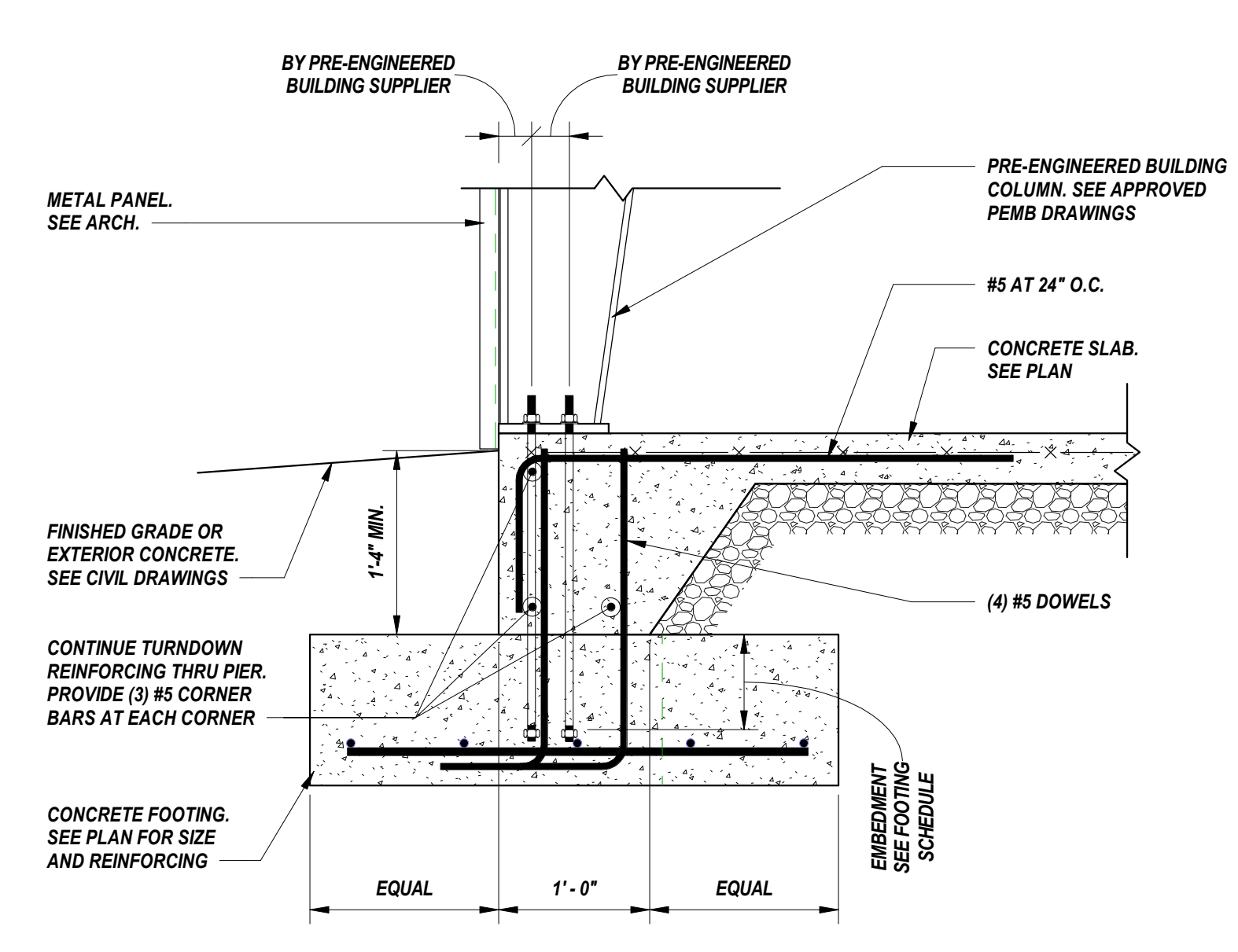
2 SECTION
S102 SCALE: 1" = 1'-0"



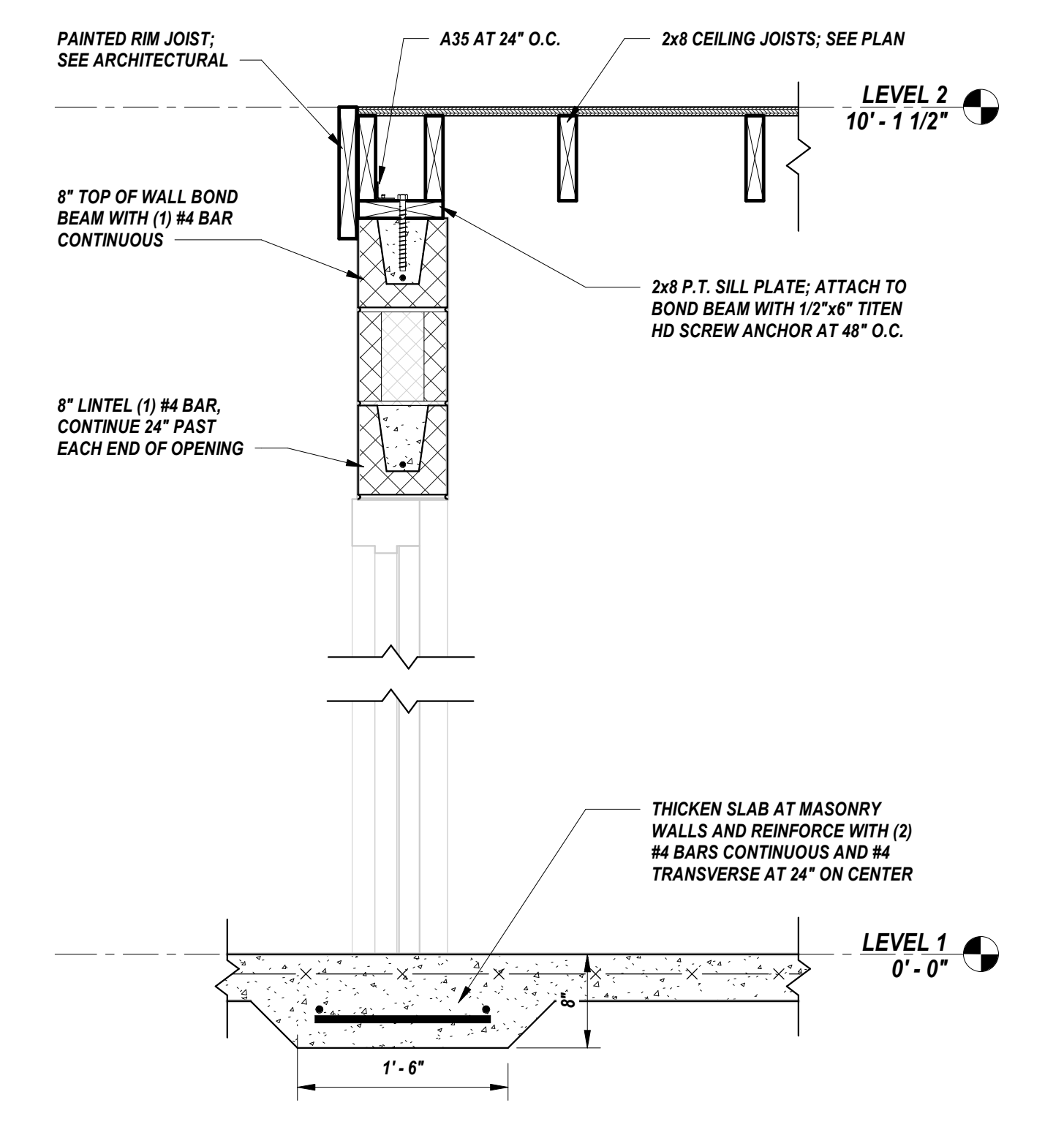
3 SECTION - PIER 1
S102 SCALE: 1" = 1'-0"



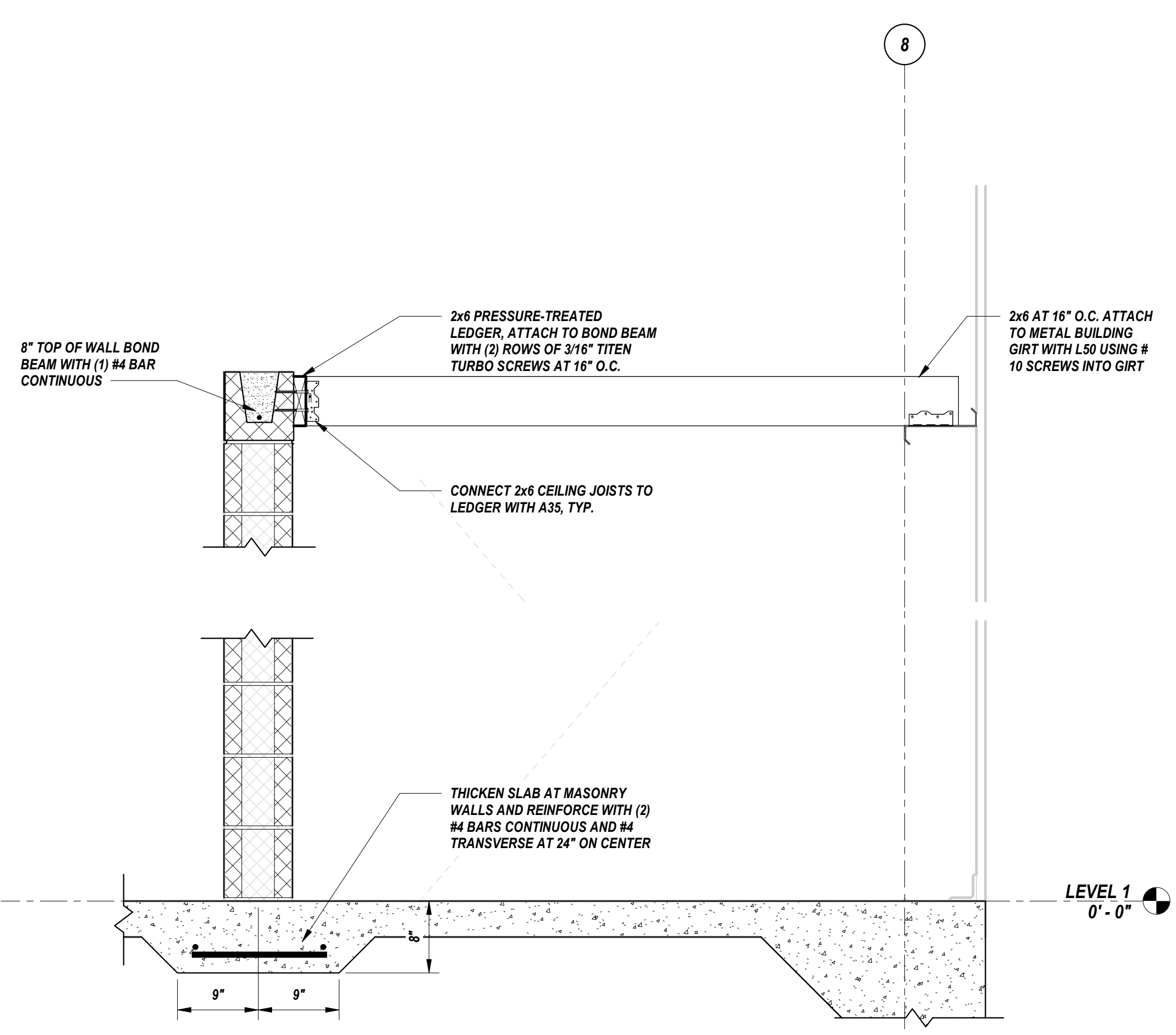
4 SECTION - PIER 2
S102 SCALE: 1" = 1'-0"



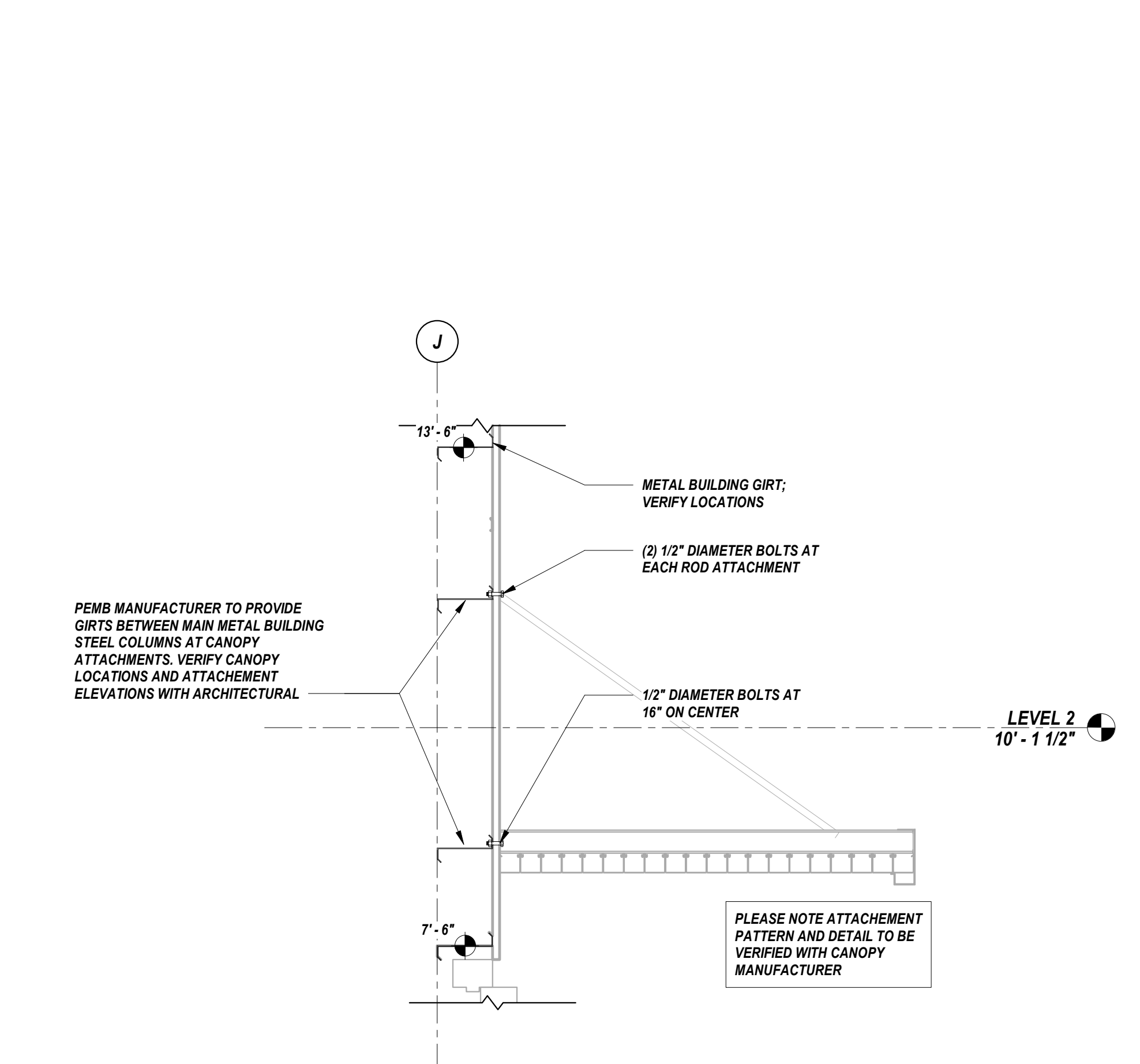
5 SECTION - PIER 3
S102 SCALE: 1" = 1'-0"



6 SECTION
S102 SCALE: 1" = 1'-0"



7 SECTION
S102 SCALE: 1" = 1'-0"



8 SECTION
S102 SCALE: 3/4" = 1'-0"



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

TFM# 03970-F PROJECT# 2023-10-18-02

FIELD SET

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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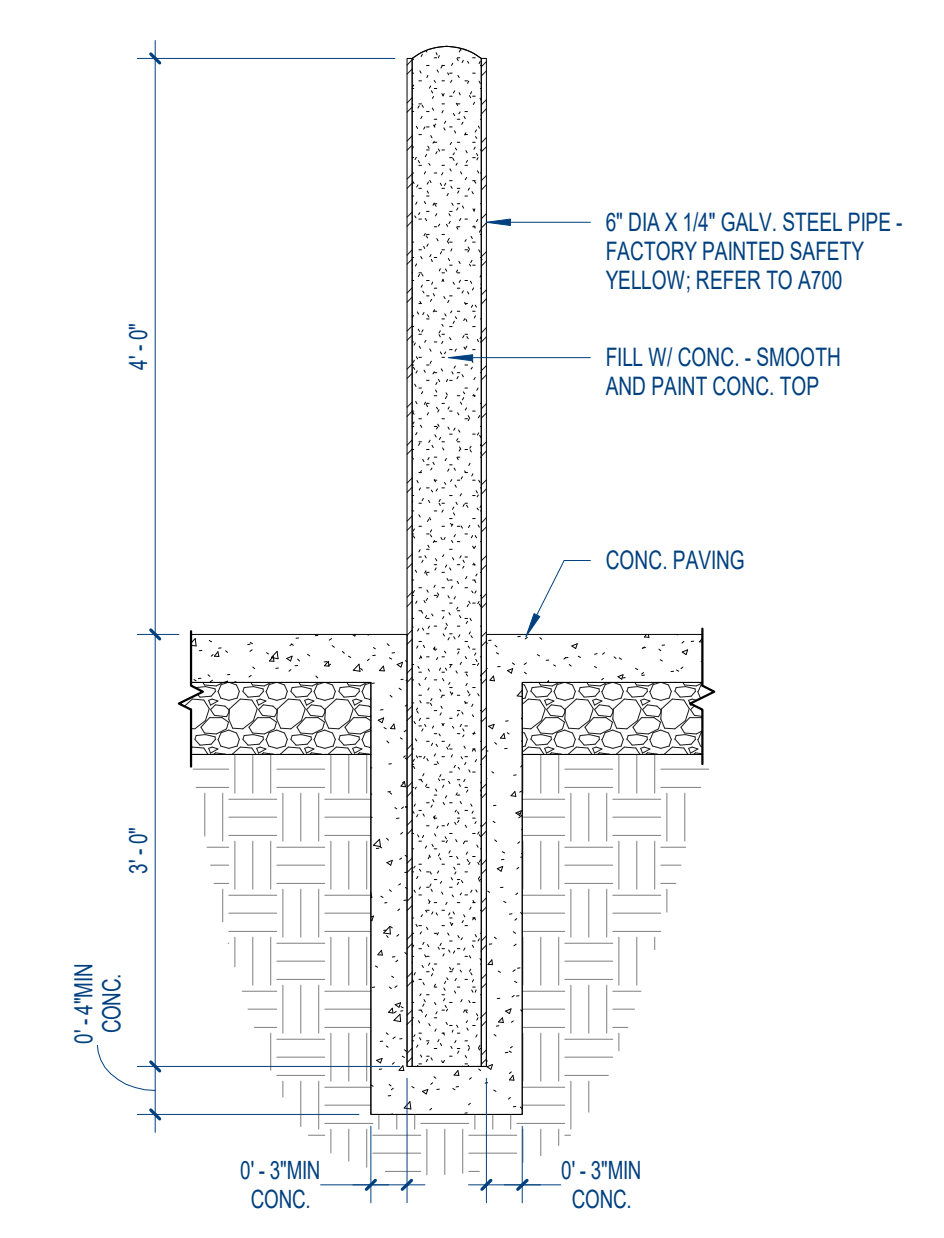
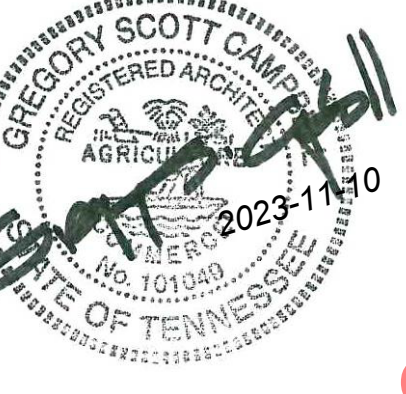
S102
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23038

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GENERAL NOTES

ARCH SITE PLAN

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U08 TYP. BOLLARD DETAIL
3/4" = 1'-0"

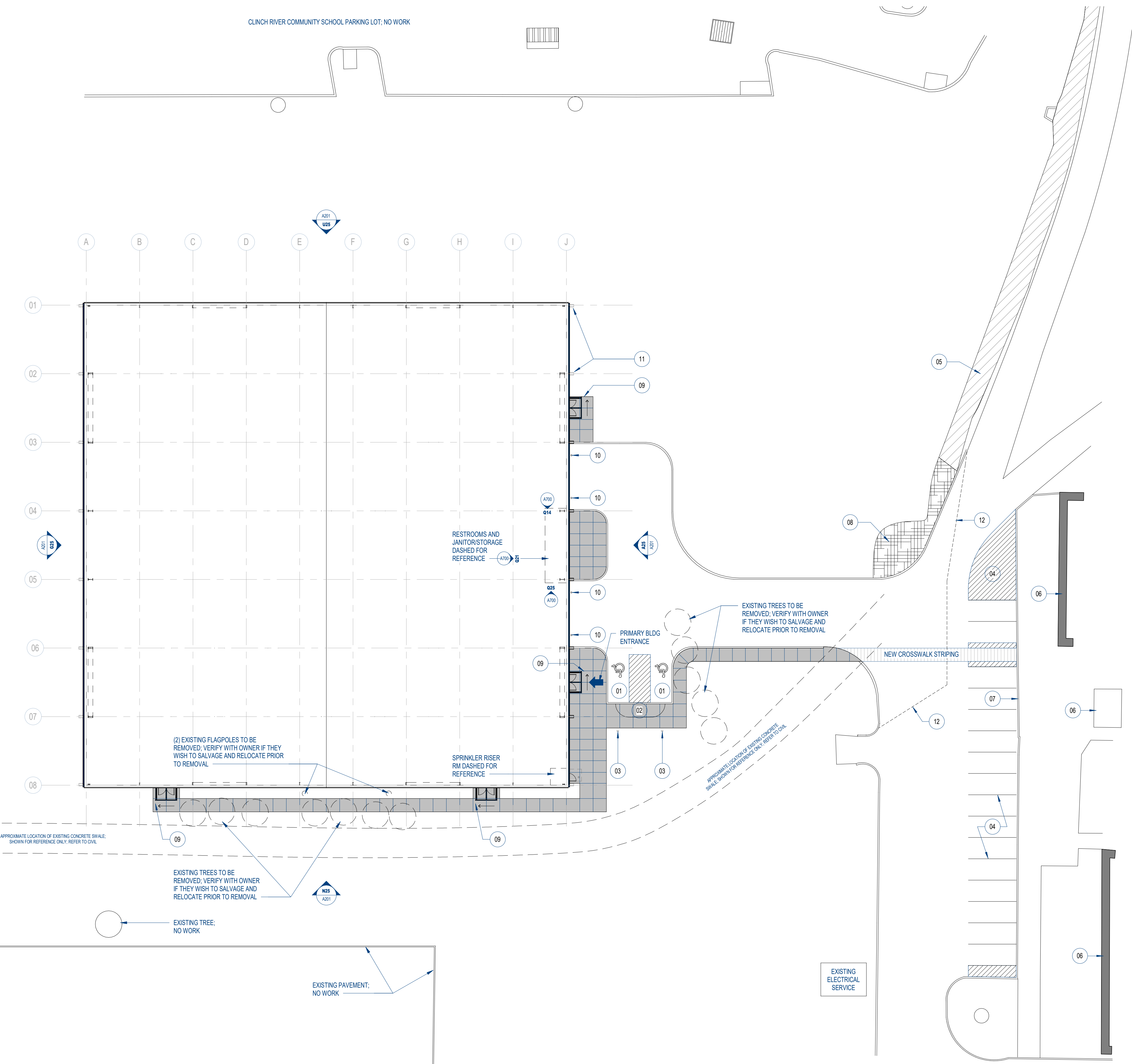
KEYED NOTES

ARCH SITE PLAN

- 01 ACCESSIBLE PARKING SPACES - REFER TO CIVIL
- 02 ACCESSIBLE RAMP AND TACTILE WARNING SURFACE - REFER TO CIVIL
- 03 POST MOUNTED ACCESSIBLE PARKING SIGNAGE - REFER TO CIVIL
- 04 RE-STRIPE EXISTING PAVING
- 05 APPROXIMATE EXTENT OF EXISTING R/P RAP. FIELD VERIFY
- 06 EXISTING BUILDING, NO WORK.
- 07 EXISTING CURB; FIELD VERIFY; NO WORK.
- 08 R/P RAP OVER GEOTEXTILE FABRIC, REFER TO CIVIL DRAWINGS
- 09 CANOPY, TYPICAL AT EACH BUILDING ENTRANCE, DRAIN TO KEYNOTE LEADER SIDE. ARROW INDICATES DIRECTION OF DRAIN
- 10 BOLLARD: TYPICAL EACH SIDE OF OVERHEAD DOOR. EACH OVERHEAD DOOR RECEIVES FOUR BOLLARDS
- 11 PROVIDE PRECAST CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT UNLESS NOTED OTHERWISE
- 12 APPROXIMATE EXTENT OF NEW PAVEMENT; REFER TO CIVIL

TFM # 03970-F

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN



A19 ARCH SITE PLAN
1" = 20'-0"

NEW CONSTRUCTION

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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AS101

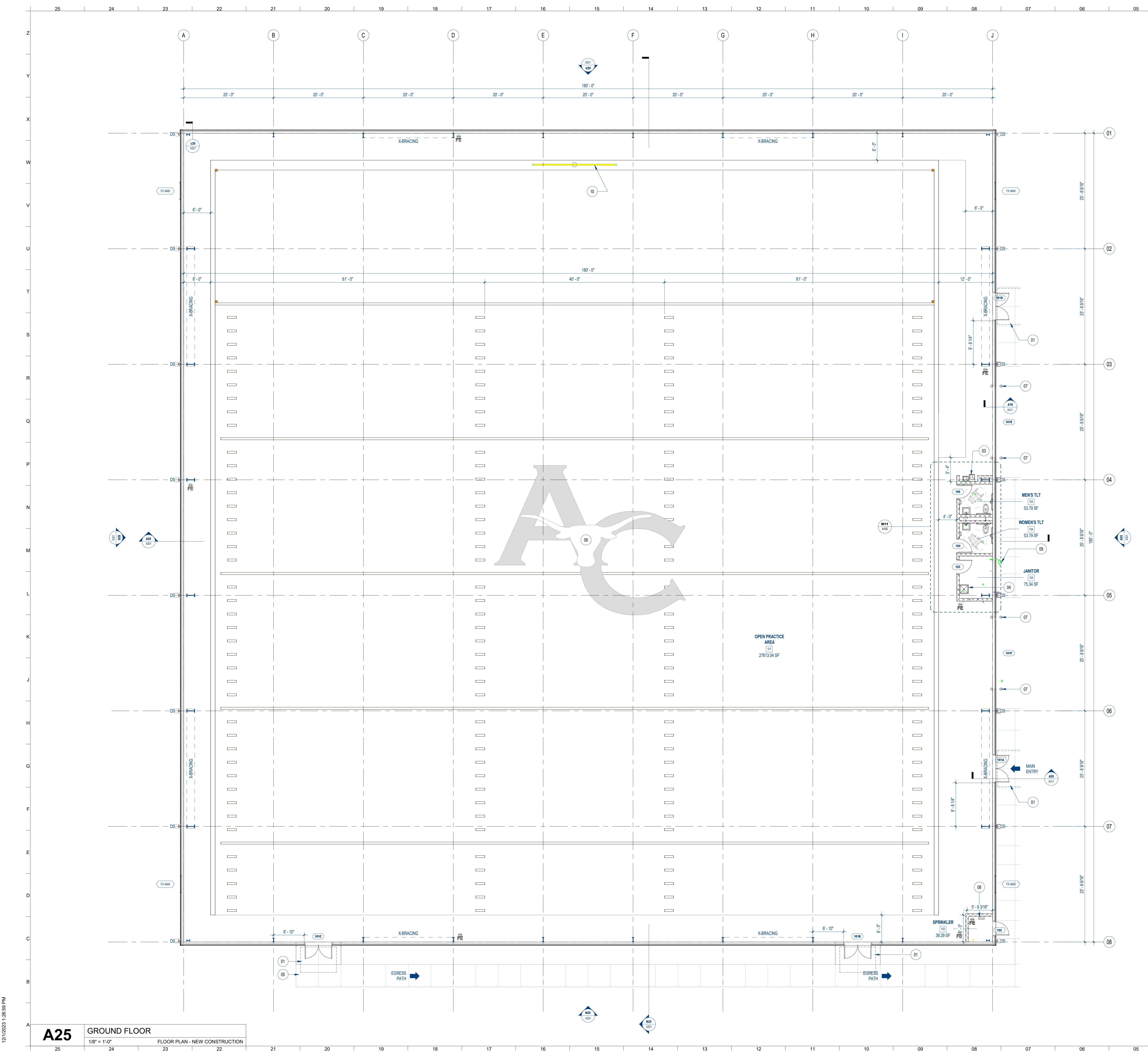
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

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TENNESSEE FIRE MARSHAL'S OFFICE

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FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02



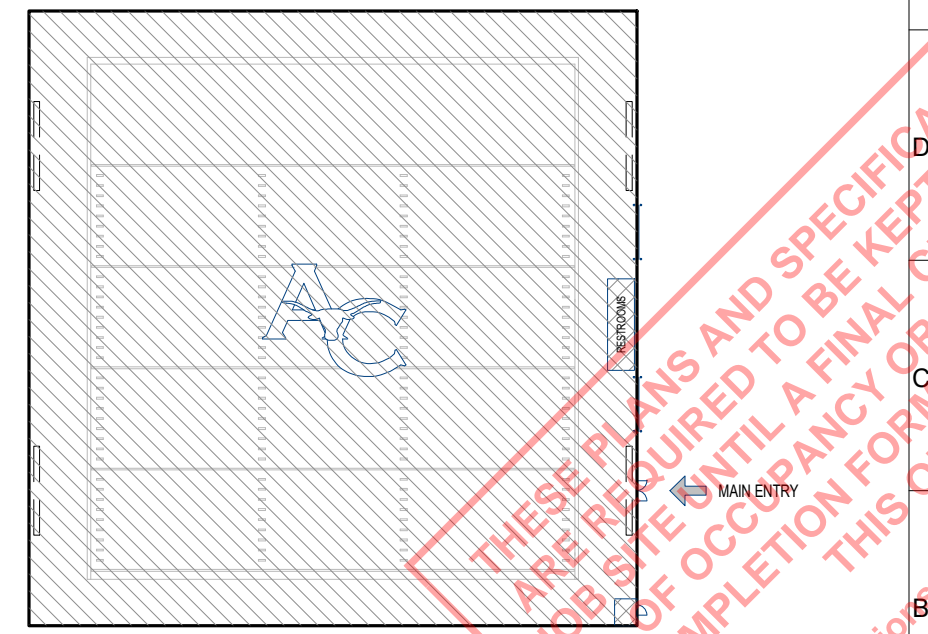
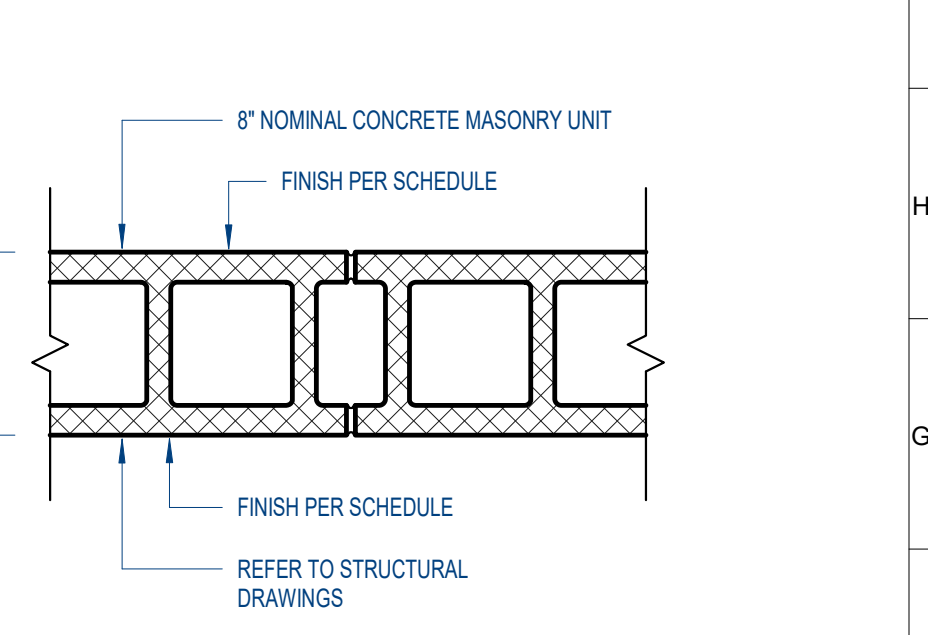
GENERAL NOTES

- FLOOR PLANS
- A CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS CONCERNING THE SCOPE OF WORK OF THIS PROJECT PRIOR TO COMMENCING WITH THE ASSOCIATED WORK. IN THE EVENT THE DIMENSIONS ARE IN QUESTION OR IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO DO SO CONSTITUTES THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.
 - B DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY / CONCRETE, UNLESS NOTED OTHERWISE.
 - C THE ROUGH OPENING OF A NEW DOOR GRAPHICALLY SHOWN IN THE CORNER OF A ROOM UNDIMENSIONED SHALL BE 2" OR 3" IN MASONRY WALLS (AS GRAPHICALLY INDICATED ON PLANS) OR 6" IN STUD FRAMED WALLS (AS GRAPHICALLY INDICATED ON PLANS) FROM THE INSIDE CORNER, UNLESS NOTED OR DIMENSIONED OTHERWISE.
 - D THE ROUGH OPENING OF A NEW DOOR GRAPHICALLY SHOWN IN THE CENTER OF A WALL UNDIMENSIONED SHALL BE ENTERED ON WALL, UNLESS NOTED OR DIMENSIONED OTHERWISE.
 - E IN SPACES OPEN TO EXPOSED STRUCTURE ABOVE, PERIMETER WALLS OF SPACE SHALL EXTEND TO UNDERSIDE OF ROOF / FLOOR DECKING ABOVE.
 - F ALL WALLS ARE TO BE EXTENDED TO UNDERSIDE OF DECK (ROOF OR FLOOR), UNLESS NOTED OTHERWISE.
 - G ALL LOCATIONS WHERE BRICK VENEER BUTTS INTO CMU OR CAST STONE, A SOFT JOINT WITH BACKER ROD AND SEALANT SHALL BE PROVIDED.
 - H ALL EXPOSED STEEL SHALL BE FULLY AND COMPLETELY PAINTED WITH HIGH PERFORMANCE & FIRE RESISTIVE COATINGS PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE. REFER TO STRUCTURAL DRAWINGS & SPECIFICATIONS.

KEYED NOTES

- FLOOR PLANS
- 01 CANOPY ABOVE
 - 02 BOTTLE FILLER AND DRINKING FOUNTAIN
 - 04 SERVICE SINK
 - 05 CONCRETE PAD
 - 06 GRAPHIC SHOWN FOR REFERENCE ONLY, NOT IN CONTRACT.
 - 07 PAINTED BOLLARD, GALVANIZED AND FACTORY PAINTED. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE. PROVIDE (4) BOLLARDS PER OVERHEAD SECTIONAL DOOR.
 - 08 WALL HEATER, REFER TO MECHANICAL DRAWINGS
 - 09 GAS METER, REFER TO MEP
 - 10 SPORTS EQUIPMENT SHOWN FOR REFERENCE ONLY, NOT IN CONTRACT.

TYPICAL WALL TYPE



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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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A101
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

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A25 GROUND FLOOR
1/8" = 1'-0"
FLOOR PLAN - NEW CONSTRUCTION

A04 KEY PLAN
NOT TO SCALE

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01

Z Y X W V U T S R Q P N M L K J I H G F E D C B A

GENERAL NOTES

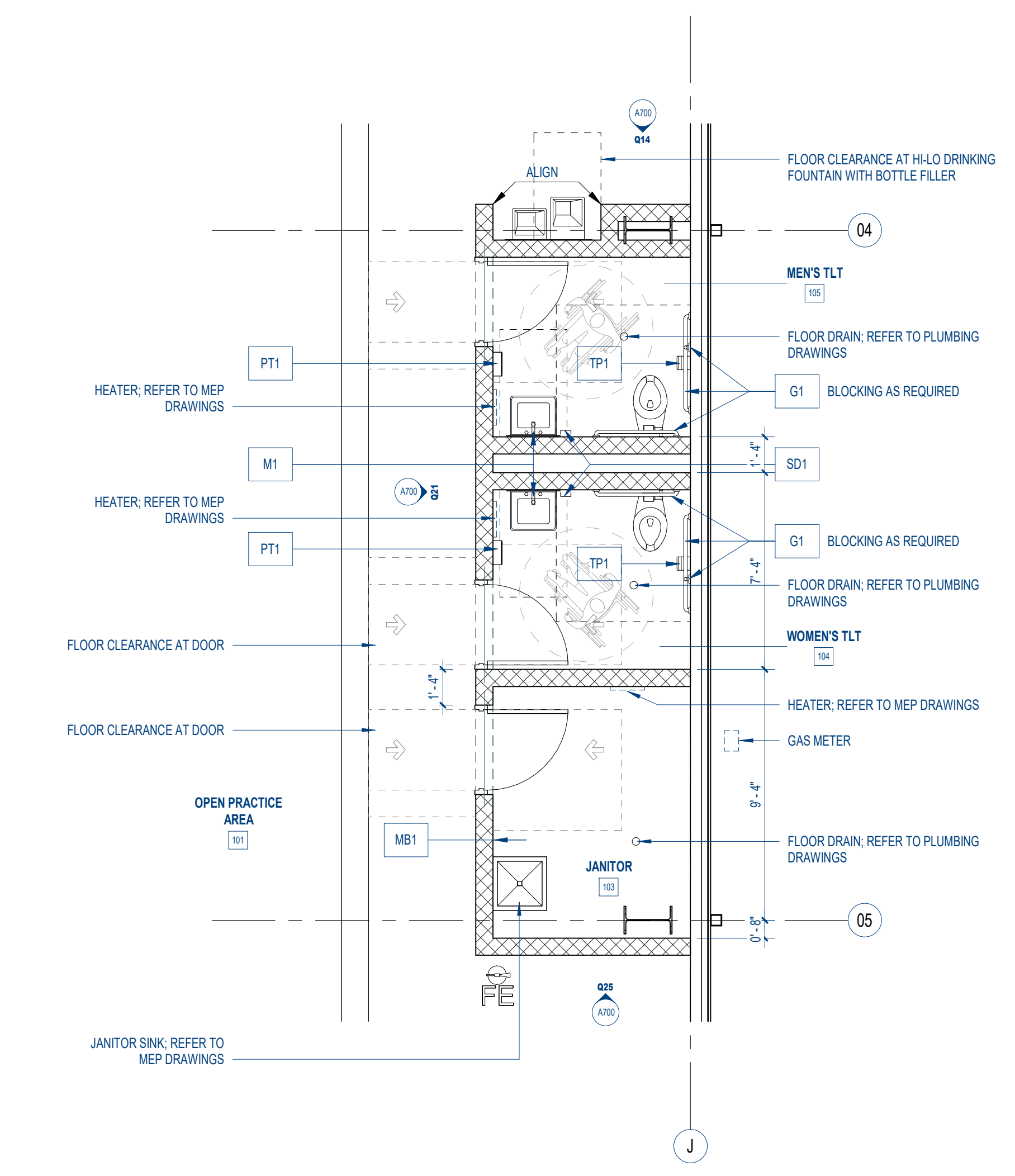
TOILET FIXTURES:
A. DIAGRAMS ARE BASED ON ICC A117.1-2009
B. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES, & THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.



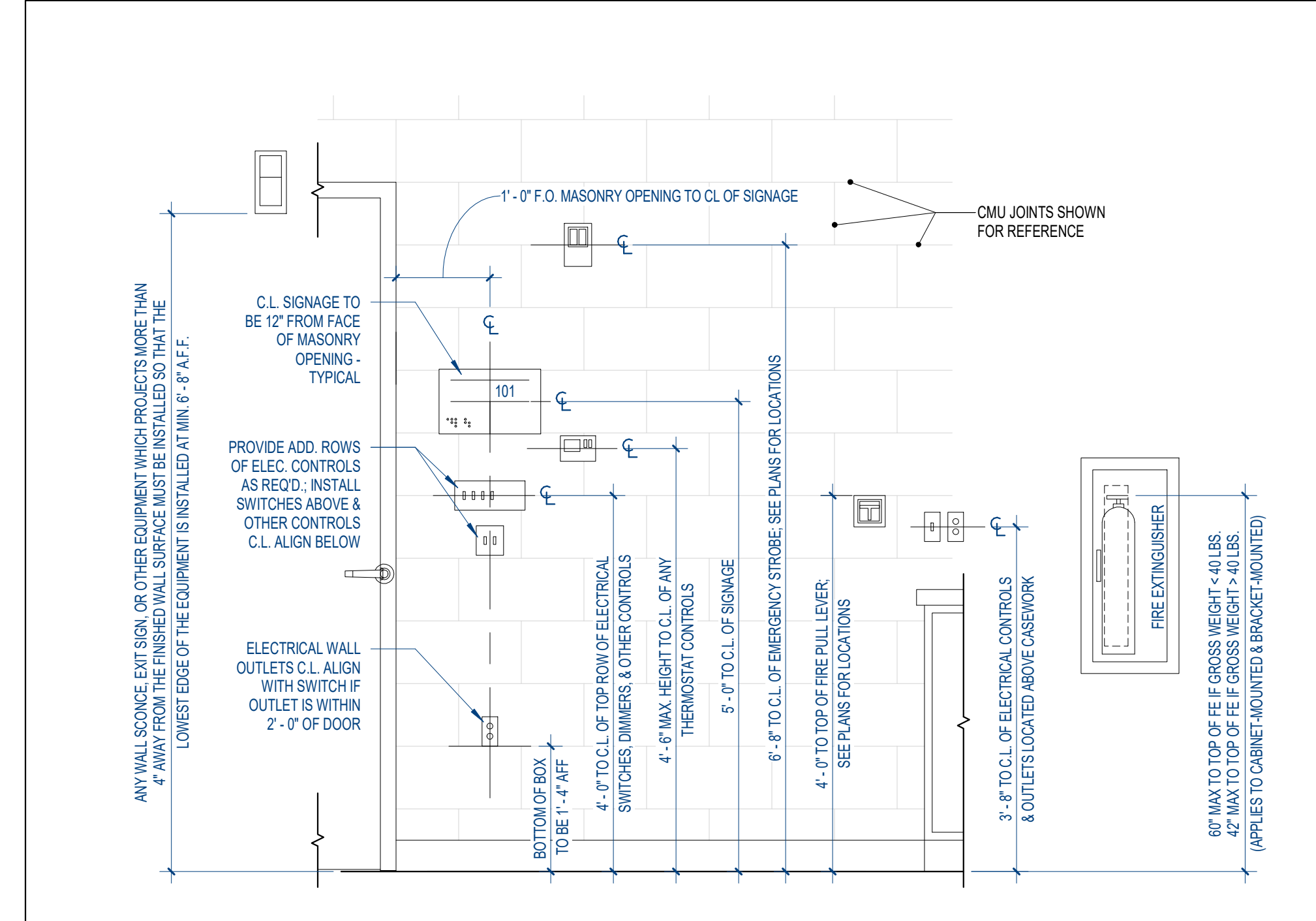
SCOTT GREGORY
REGISTERED ARCHITECT
No. 0000000000
EXPIRES 06/30/2023
STATE OF TENNESSEE
www.dia-arch.com

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

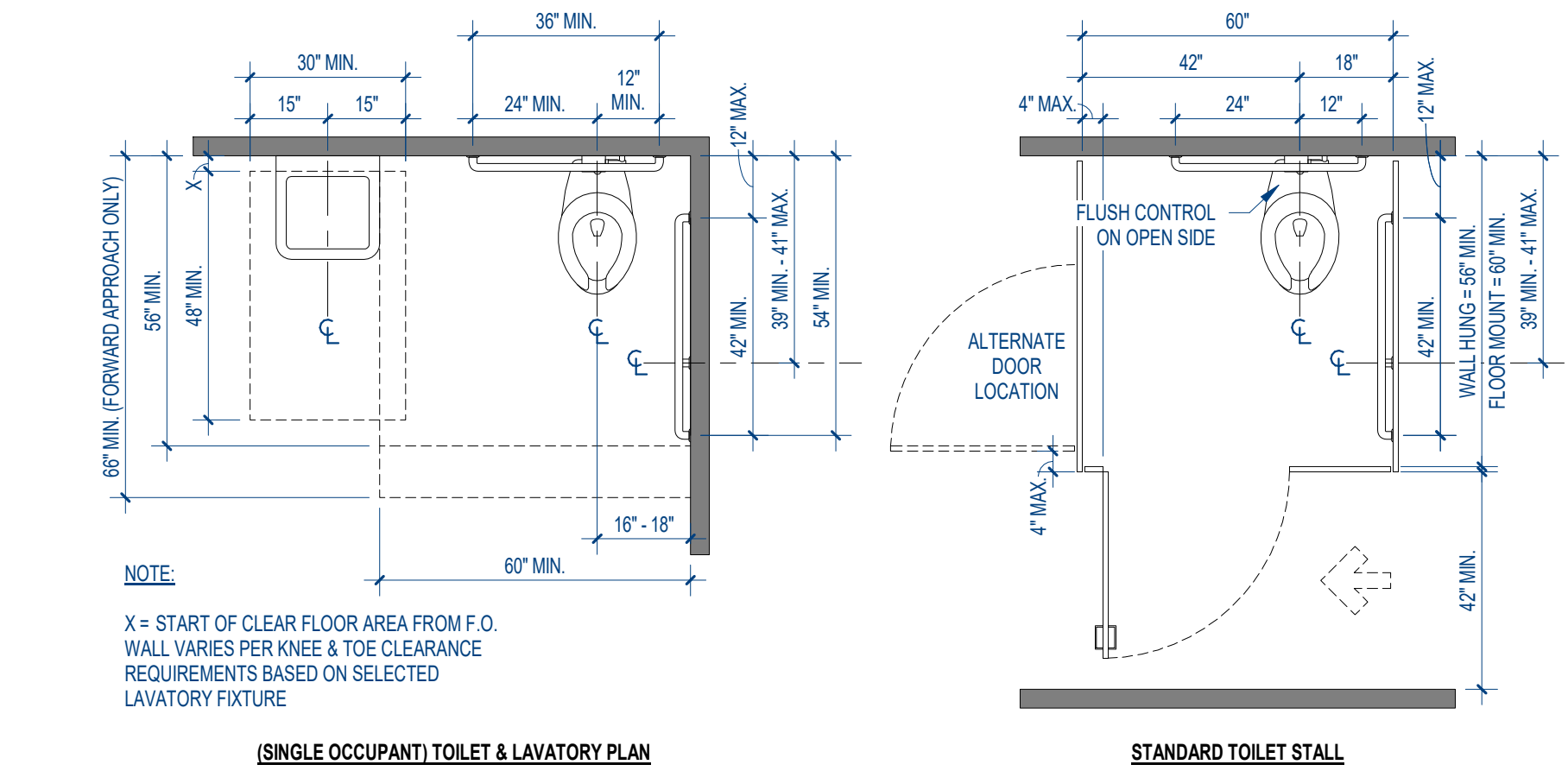
TFM# 03970-F PROJECT# 2023-10-18-02
FIELD SET



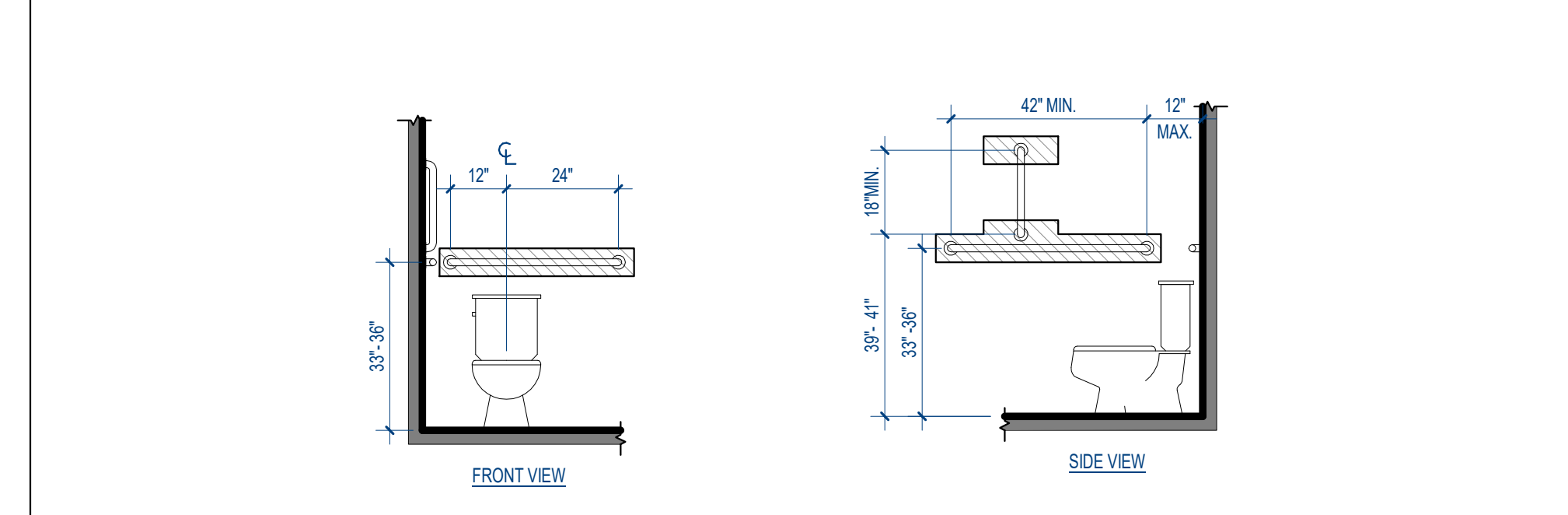
N11 ENLARGED TOILET PLAN
1/4" = 1'-0"
FLOOR PLAN - NEW CONSTRUCTION



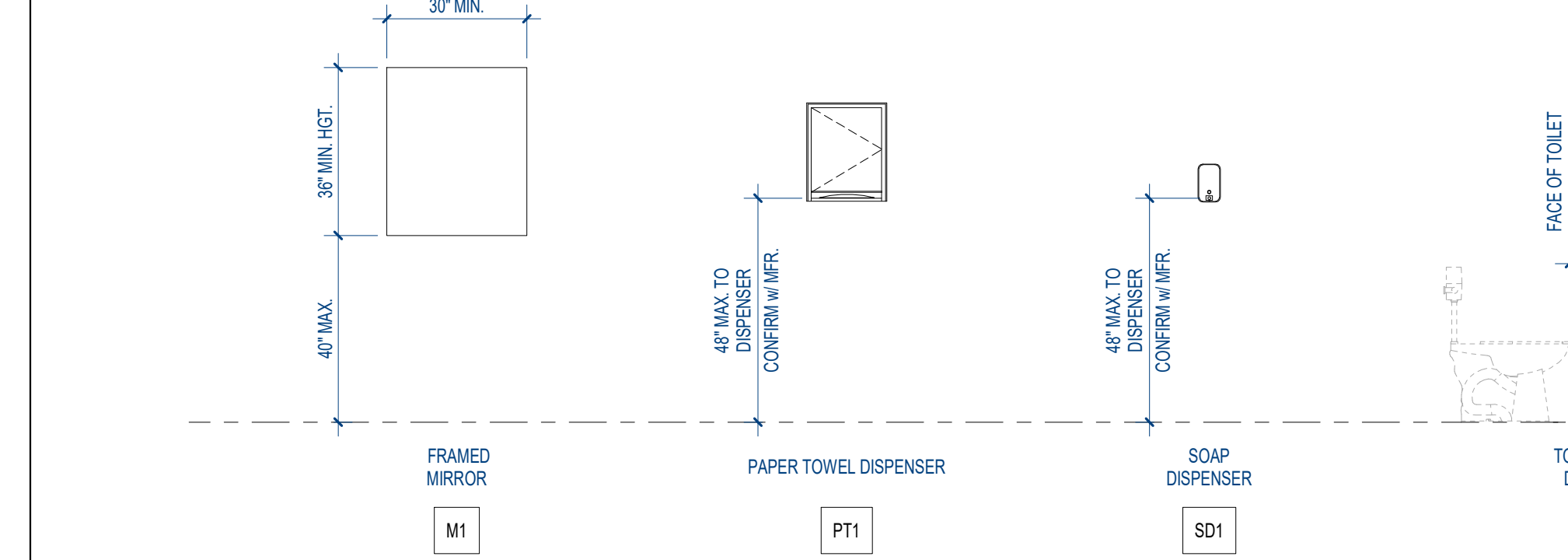
J18 INTERIOR MOUNTING HEIGHT REQ'S.
3/4" = 1'-0" TYPICAL



E11 ACCESSIBLE RESTROOM FIXTURES
3/8" = 1'-0"
TYPICAL PLANS & ELEVATION DETAILS



E18 GRAB BAR REINFORCEMENT
3/8" = 1'-0"



A18 ACCESSIBLE RESTROOM ACCESSORIES
3/8" = 1'-0"
LEGEND & TYPICAL MOUNTING HEIGHTS

RESTROOM ACCESSORIES

- M1**
 - FRAME: STAINLESS-STEEL ANGLE, 0.05 INCH THICK CORNERS; MANUFACTURER'S STANDARD.
 - HANGERS: PRODUCE RIGID, TAMPER-AND THEFT-RESISTANT INSTALLATION, USING METHOD INDICATED BELOW.
 - a. ONE-PIECE GALVANIZED-STEEL WALL-HANGER DEVICE WITH SPRING-ACTION LOCKING MECHANISM TO HOLD MIRROR UNIT IN POSITION WITH NO EXPOSED SCREWS OR BOLTS.
 - b. WALL BRACKET OF GALVANIZED STEEL, EQUIPPED WITH CONCEALED LOCKING DEVICES REQUIRING A SPECIAL TOOL TO REMOVE.
- PT1**
 - MOUNTING: SURFACE MOUNTED.
 - MINIMUM CAPACITY: 400 2-FOLD OR 525 MULTIFOLD TOWELS.
 - MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
 - LOCKSET: TUMBLER TYPE.
- SD1**
 - DESCRIPTION: AUTOMATIC DISPENSER WITH INFRARED SENSOR TO DETECT PRESENCE OF HANDS; BATTERY POWERED.
 - MOUNTING: WALL MOUNTED NEAR LAVATORY.
 - LOW BATTERY INDICATOR: LED INDICATOR.
 - MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- TP1**
 - DESCRIPTION: DOUBLE-ROLL DISPENSER.
 - MOUNTING: SURFACE MOUNTED.
 - CAPACITY: DESIGNED FOR 5-INCH (127-MM) TISSUE ROLLS.
 - MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- MB1**
 - DESCRIPTION: UNIT WITH SHELF HOOKS, HOLDERS.
 - LENGTH: 36 INCHES (914MM).
 - MOP/BROOM HOLDERS.
 - MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- G1**
 - MOUNTING: FLANGES WITH CONCEALED FASTENERS.
 - MATERIAL: STAINLESS STEEL, 0.05 INCH (1.3MM) THICK.
 - FINISH: SMOOTH, NO. 4 FINISH (SATIN).
 - OUTSIDE DIAMETER: 1-1/2 INCHES (38MM).
 - CONFIGURATION AND LENGTH: AS INDICATED ON DRAWINGS.

- ACCEPTABLE MANUFACTURERS:
- A & J WASHROOM ACCESSORIES INC. WWW.AJASHROOM.COM.
 - AMERICAN SPECIALTIES, INC. WWW.AMERICANSPECIALTIES.COM
 - BRADLEY CORPORATION. WWW.BRADLEYCORP.COM
 - BOBRICK. WWW.BOBRICK.COM
- SUBSTITUTIONS WILL BE CONSIDERED AS REQUESTED.
- KEYS PROVIDE UNIVERSAL KEYS FOR INTERNAL ACCESS TO ACCESSORIES FOR SERVICING AND RESUPPLYING. PROVIDE MINIMUM OF SIX KEYS TO OWNER'S REPRESENTATIVE.

GENERAL NOTES

GRAB BAR REINFORCEMENT:
A. GRAB BAR REINFORCEMENT ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 LBS. IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.
B. DIAGONAL HATCH PATTERN INDICATES AREA WITH REINFORCEMENT.

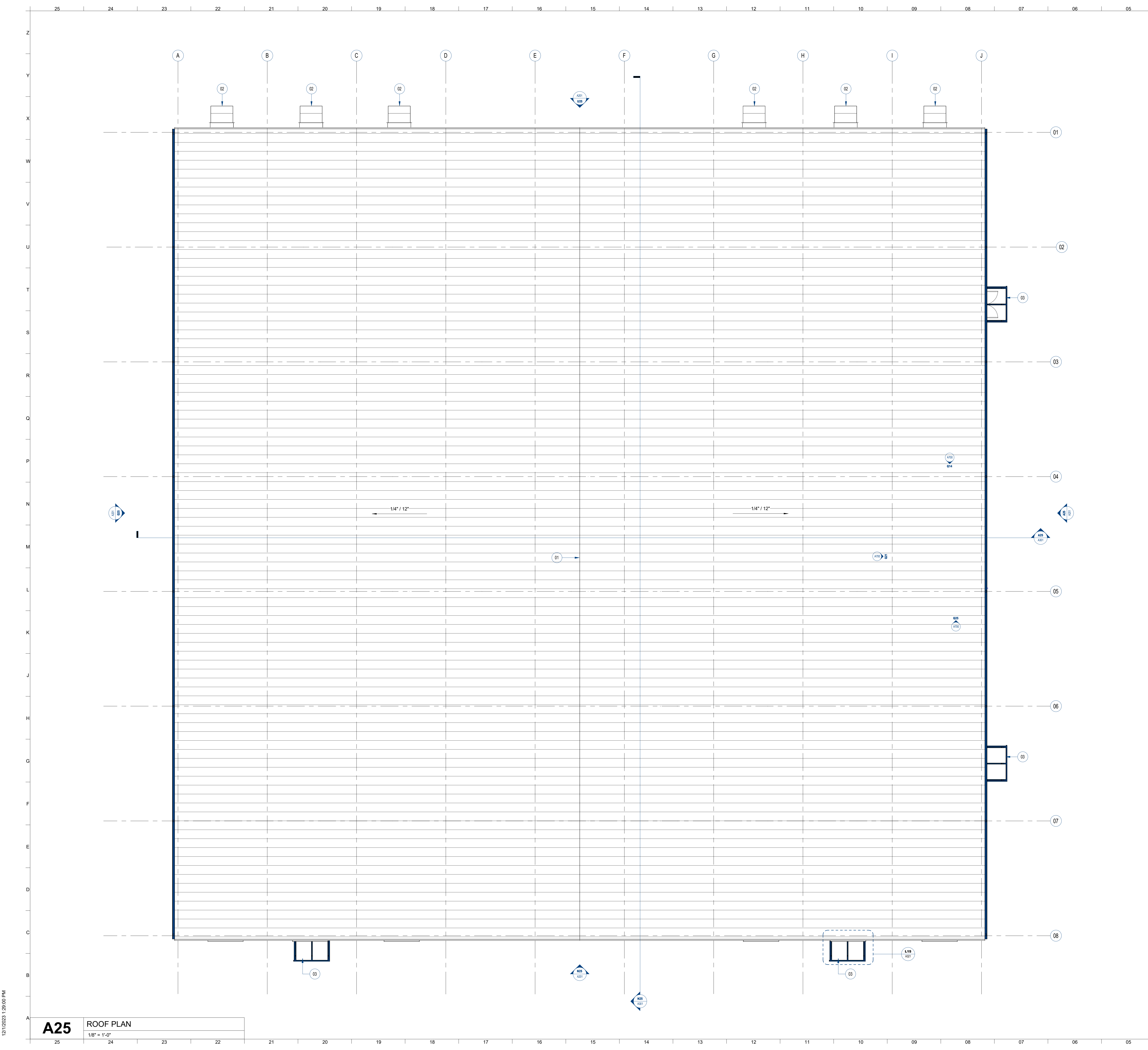
TFM # 03970-F

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A102
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030



GENERAL NOTES

A ARROWS INDICATE DIRECTION OF DOWNWARD SLOPE.
 B COORDINATE ALL PENETRATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
 C ALL EQUIPMENT STACK LOCATIONS AND DIAMETERS TO BE VERIFIED WITH FINAL EQUIPMENT LAYOUT. EQUIPMENT LAYOUT TO BE VERIFIED BY VENDOR.

KEYED NOTES

01 RIGGIDGE
 02 EXHAUST FANS; REFER TO MECHANICAL DRAWINGS
 03 PRE-MANUFACTURER ALUMINUM CANOPY; DRAIN ONE SIDE

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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

TFM # 03970-F

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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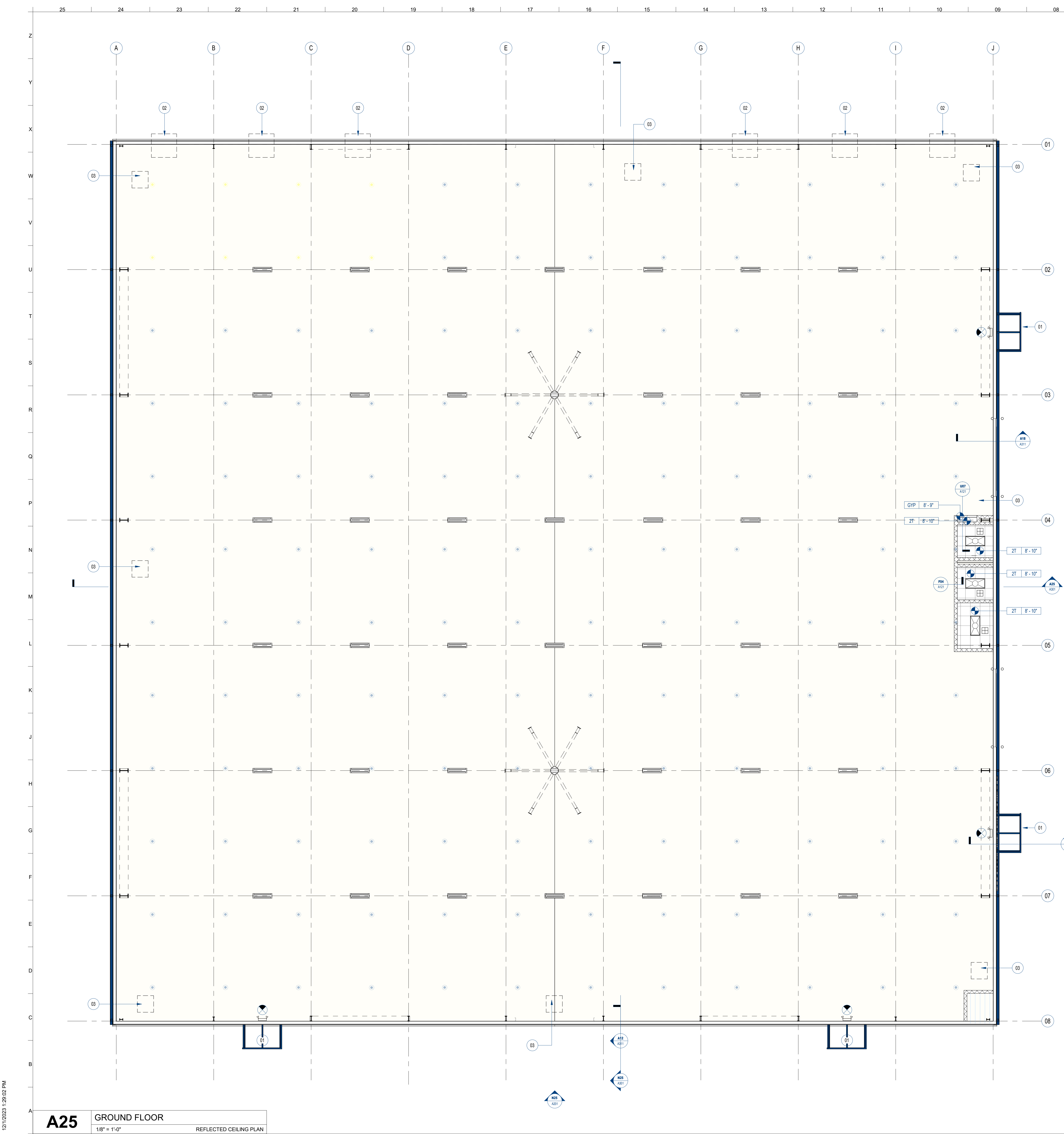
TENNESSEE STATE FIRE MARSHAL'S OFFICE

A25 ROOF PLAN
 1/8" = 1'-0"

A04 KEY PLAN
 NOT TO SCALE

A111
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02



A25 GROUND FLOOR
1/8" = 1'-0"
REFLECTED CEILING PLAN

GENERAL NOTES

- A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
- B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
- C DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
- D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
- E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.

KEYED NOTES

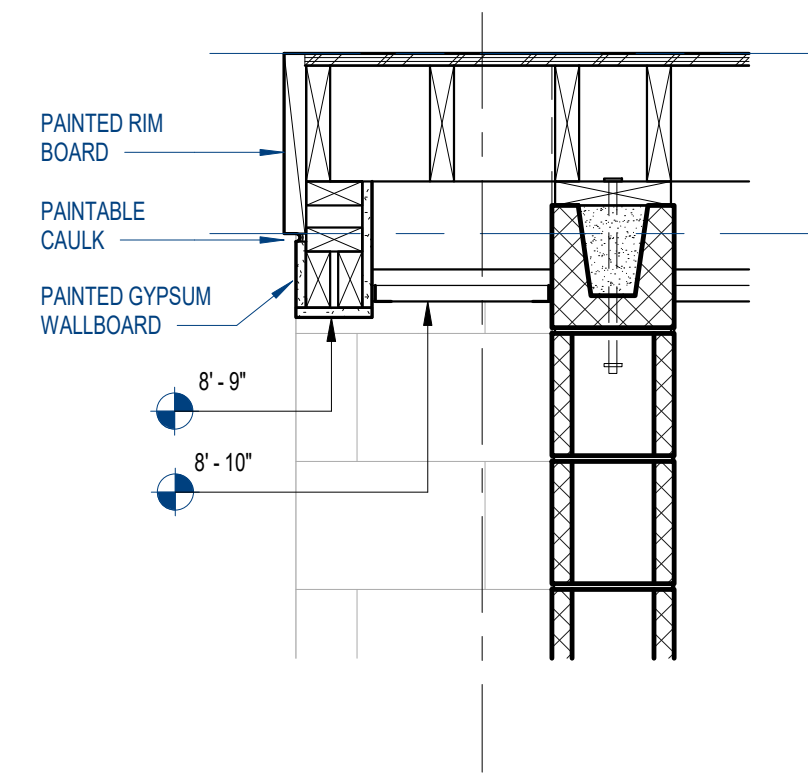
- 01 CANOPY
- 02 EXHAUST FANS; REFER TO MECHANICAL DRAWINGS
- 03 GAS UNIT HEATER; REFER TO MECHANICAL DRAWINGS

GRAPHIC LEGEND

NOT TO SCALE		REFLECTED CEILING PLANS	
	2' - 2' x 2' ACOUSTIC CEILING TILE		EXHAUST FAN, CENTERED ON CEILING TILE; REFER TO MECH
	HIGH BAY LIGHT FIXTURE; REFER TO ELECTRICAL		SPRINKLER HEAD; REFER TO FIRE PROTECTION DWGS
	EMERGENCY LIGHT FIXTURE; REFER TO ELECTRICAL		EXIT SIGN
	LOCATION OF POTENTIAL FUTURE CEILING FAN; NOT IN CONTRACT		PRE-MANUFACTURED ALUM CANOPY

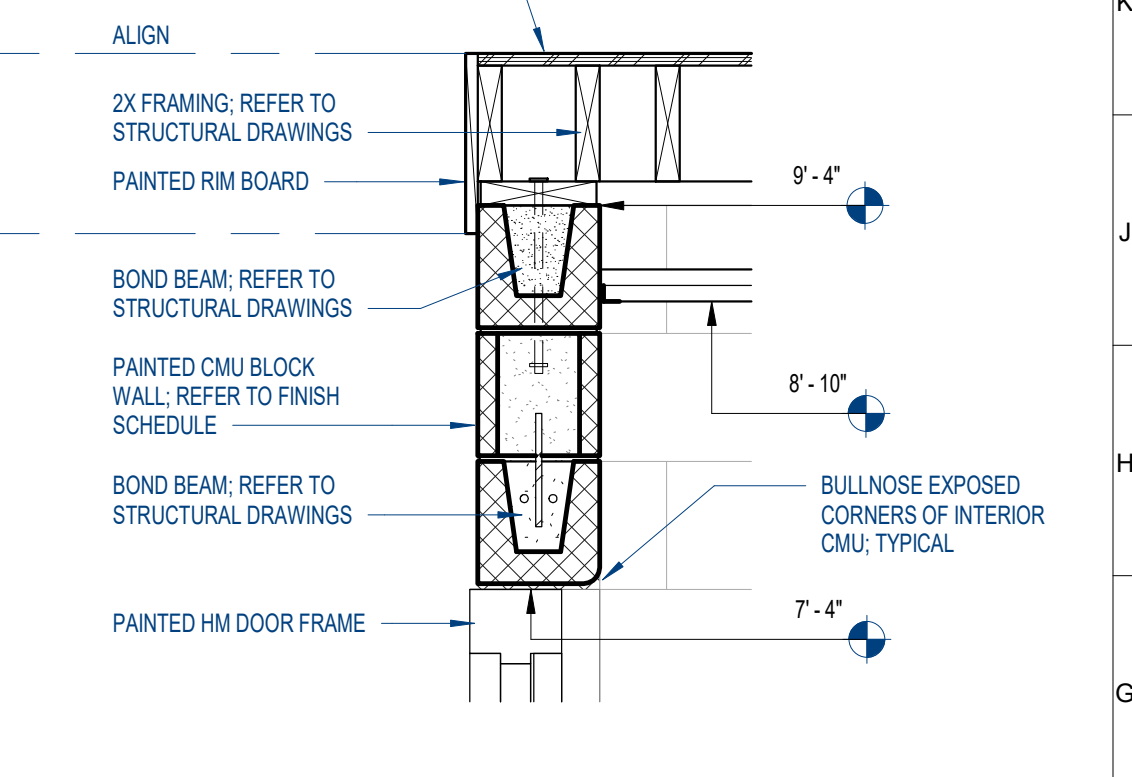
TFM # 03970-F

NOTE IN THIS CONSTRUCTION TYPE ALL INTERIOR WOOD MUST BE NONCOMBUSTIBLE. THUS, ALL WOOD MEMBERS TO BE FIRE RETARDANT, TREATED WOOD.

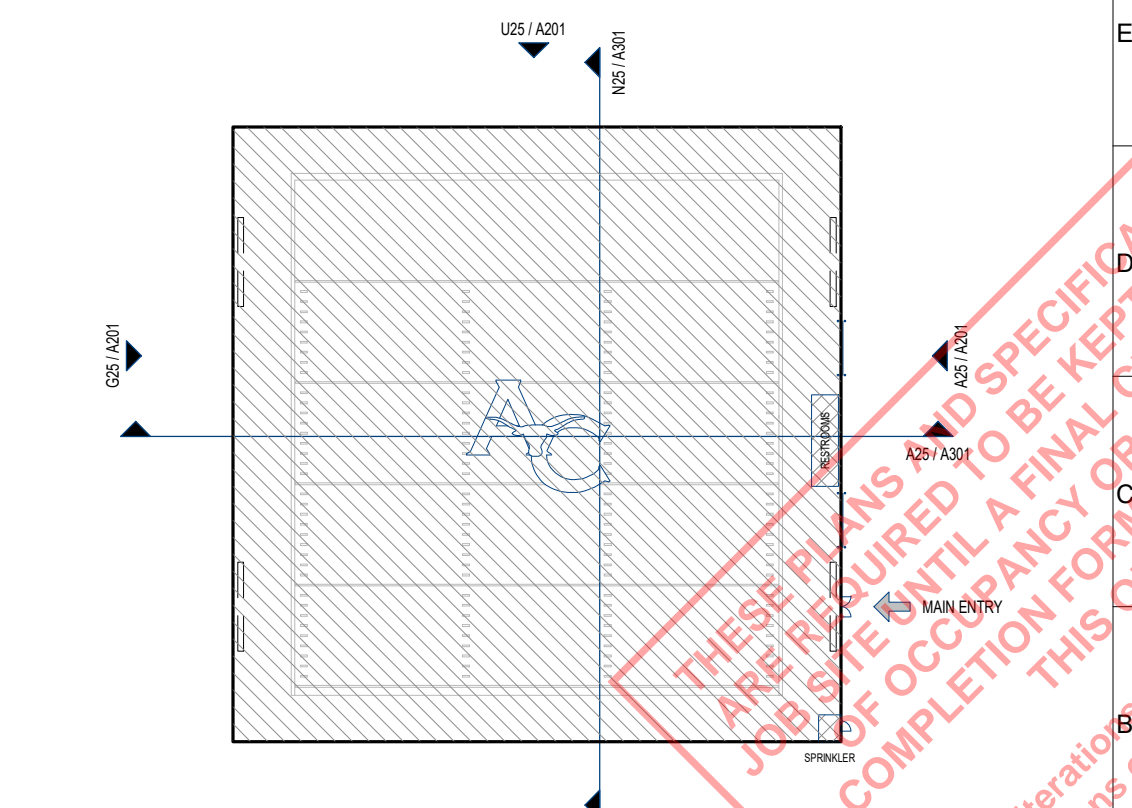


U07 ACT SOFFIT AT DF
1" = 1'-0"
CEILING DETAIL

NOTE IN THIS CONSTRUCTION TYPE, ALL INTERIOR WOOD MUST BE NONCOMBUSTIBLE. THUS, ALL WOOD MEMBERS TO BE FIRE RETARDANT, TREATED WOOD.



F04 TOP OF WALL DETAIL
1" = 1'-0"
CEILING DETAIL



A04 KEY PLAN
NOT TO SCALE

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A NEW PROJECT FOR:
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ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
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A121
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

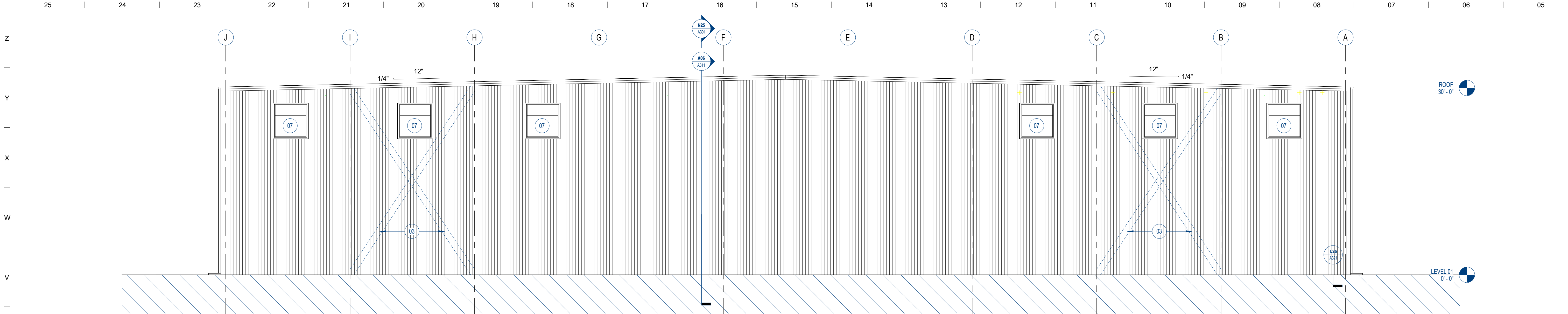
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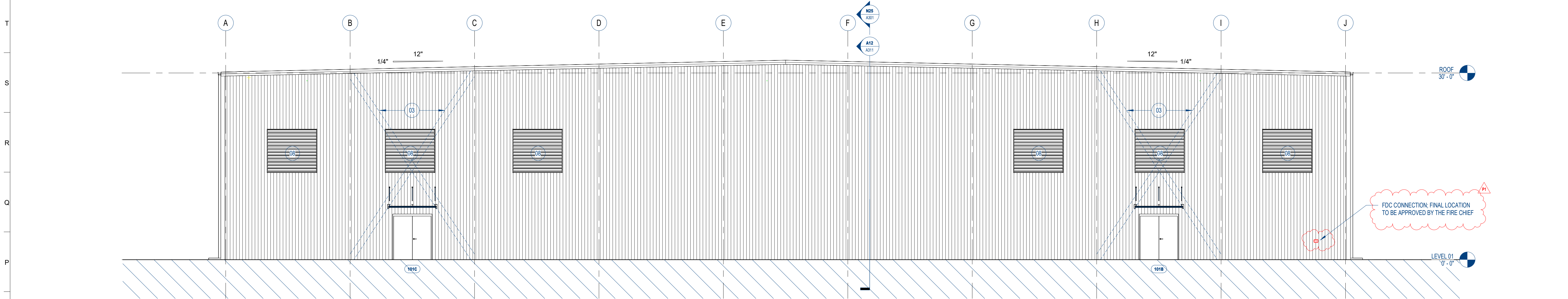
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FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

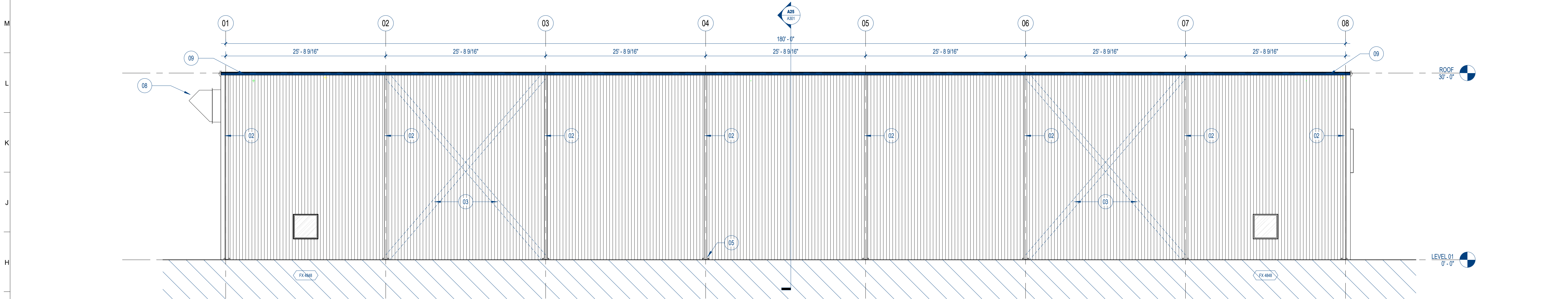
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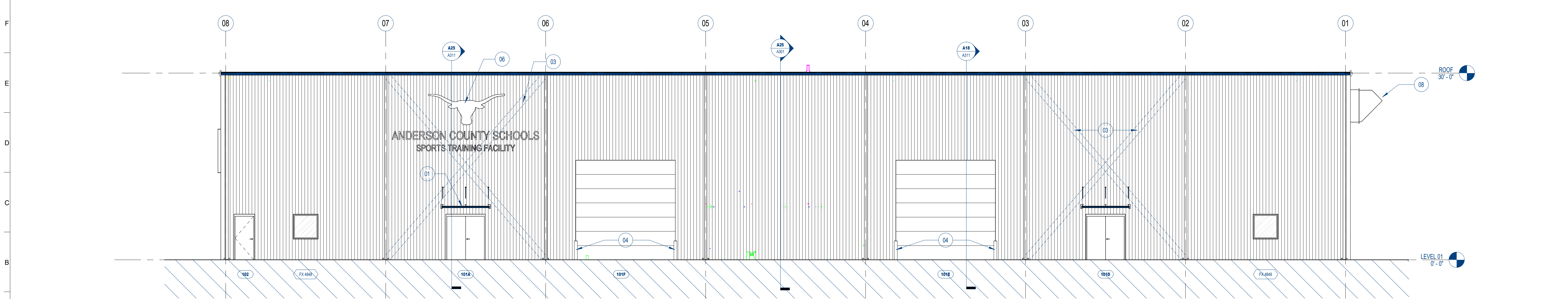
U25 NORTH ELEVATION
1/8" = 1'-0"



N25 SOUTH ELEVATION
1/8" = 1'-0"



G25 WEST ELEVATION
1/8" = 1'-0"



A25 EAST ELEVATION
1/8" = 1'-0"

KEYED NOTES
EXTERIOR ELEVATIONS

- 01 PRE-MANUFACTURED CANOPY
- 02 DOWNSPOUT, SIZED PER SMACNA GUIDELINES
- 03 X-BRACING
- 04 BOLLARDS, SEE PLAN
- 05 PRECAST CONCRETE SPLASH BLOCK, PROVIDE ONE PER DOWNSPOUT, TYPICAL
- 06 BUILDING SIGNAGE, NIC
- 07 EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
- 08 LOUVER, REFER TO MECHANICAL DRAWINGS
- 09 GUTTER, SIZED PER SMACNA GUIDELINES

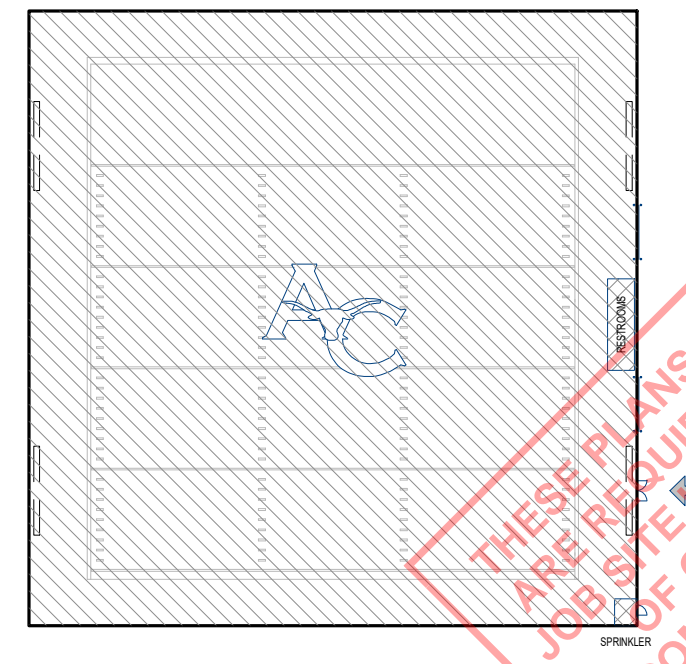
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ANDERSON COUNTY, TN

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

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P1	PERMITTING	2023-11-10



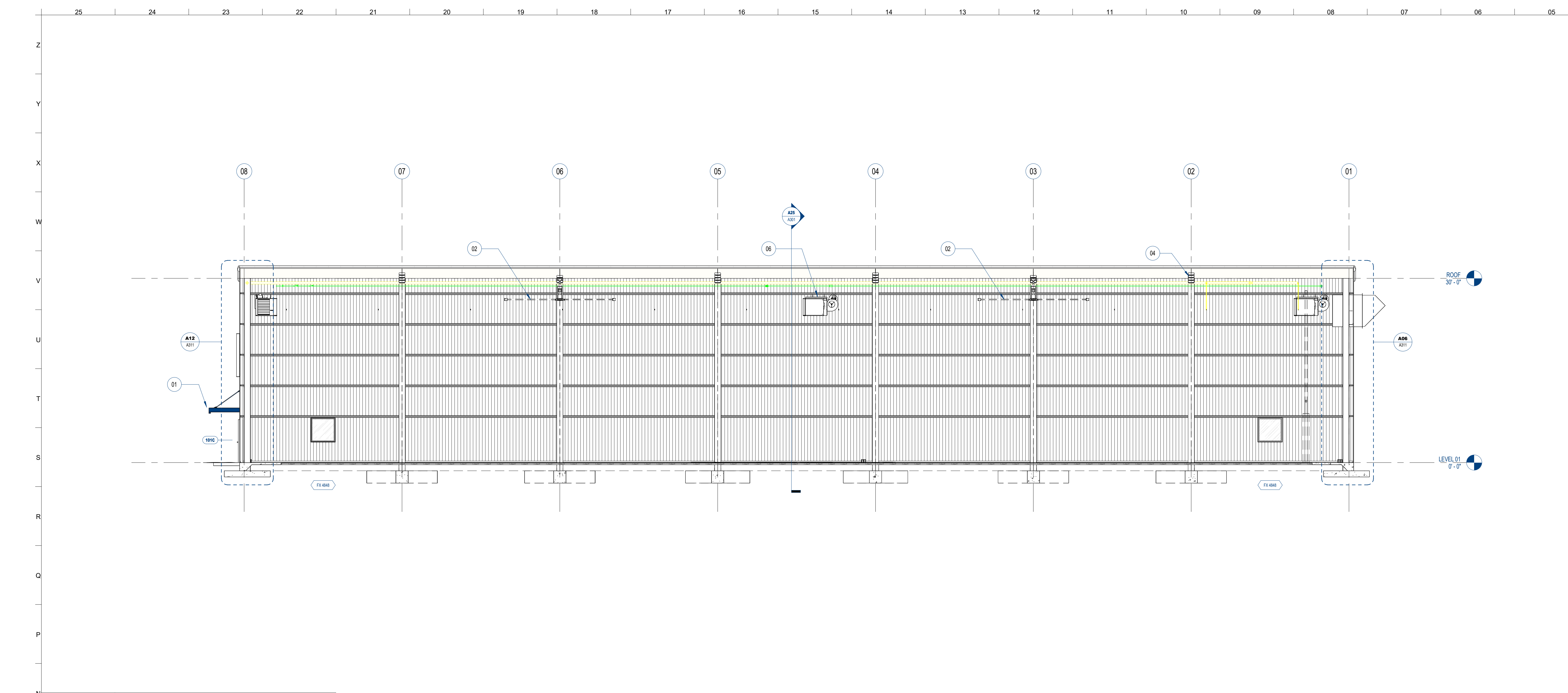
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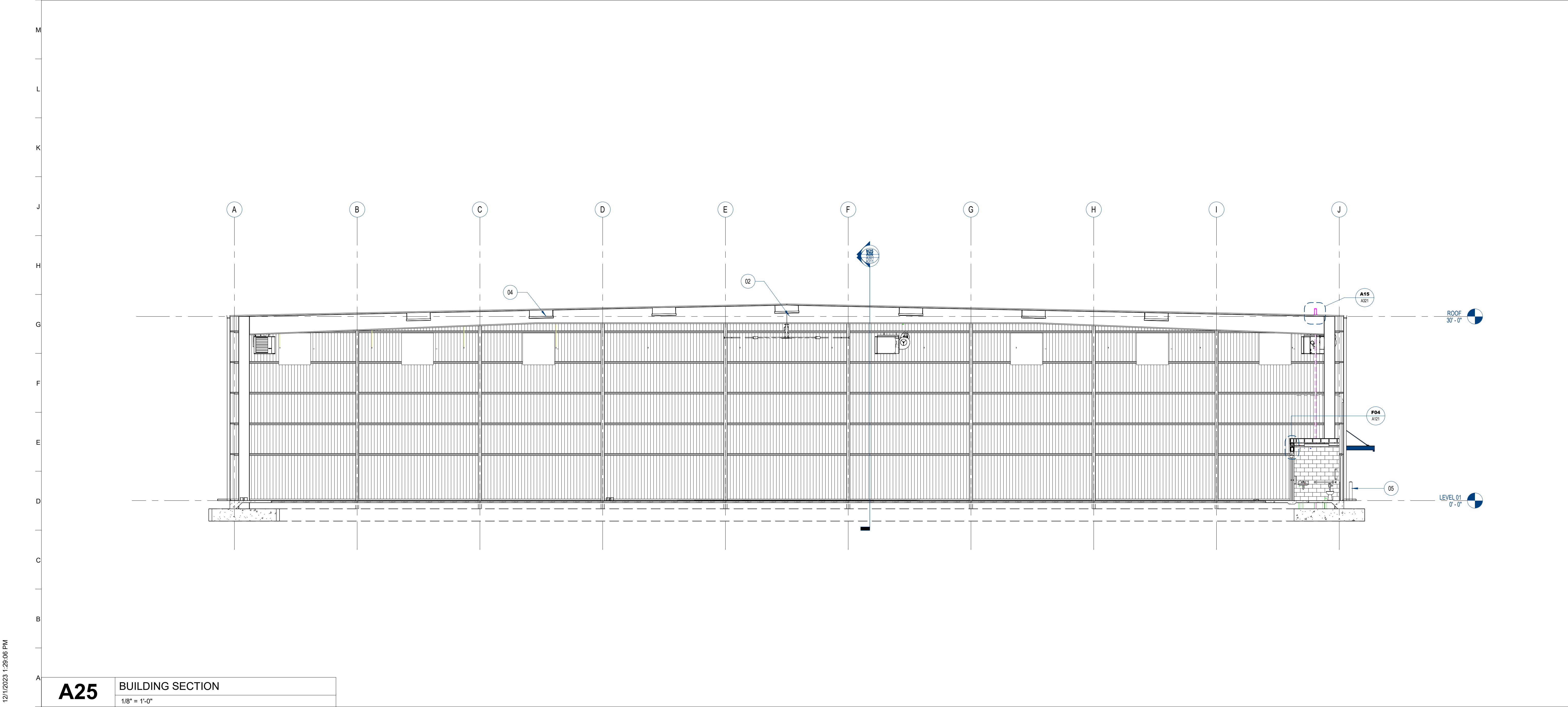
TELEPHONE STATE FIRE MARSHAL'S OFFICE

A201
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

A04 KEY PLAN
NOT TO SCALE



N25 BUILDING SECTION
1/8" = 1'-0"



A25 BUILDING SECTION
1/8" = 1'-0"

KEYED NOTES

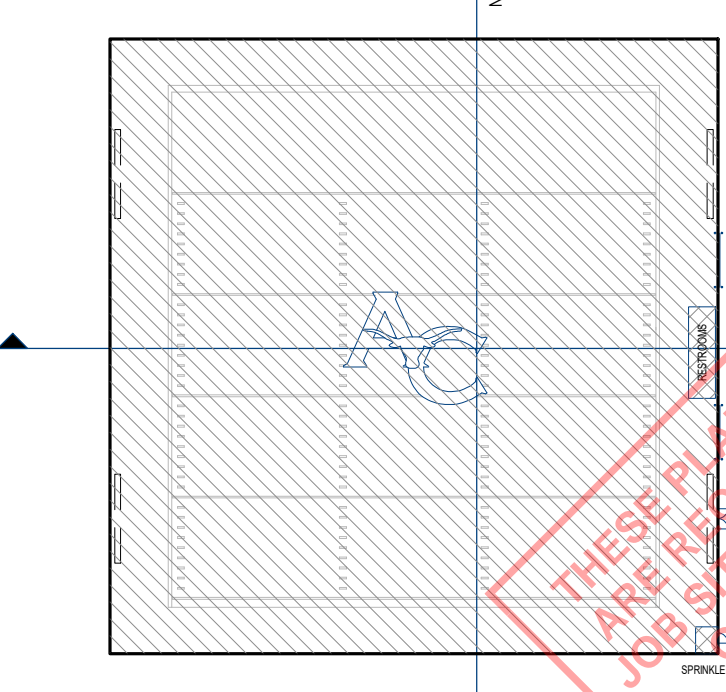
- 01 OVERHEAD ENTRY CANOPY
- 02 CEILING FAN, FUTURE, NOT IN CONTRACT
- 04 LED LIGHT FIXTURE
- 05 PAINTED BOLLARD, GALVANIZED AND FACTORY PAINTED SAFETY YELLOW, PROVIDE (4) BOLLARDS PER OVERHEAD SECTIONAL DOOR
- 06 HEATER

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ANDERSON COUNTY, TN

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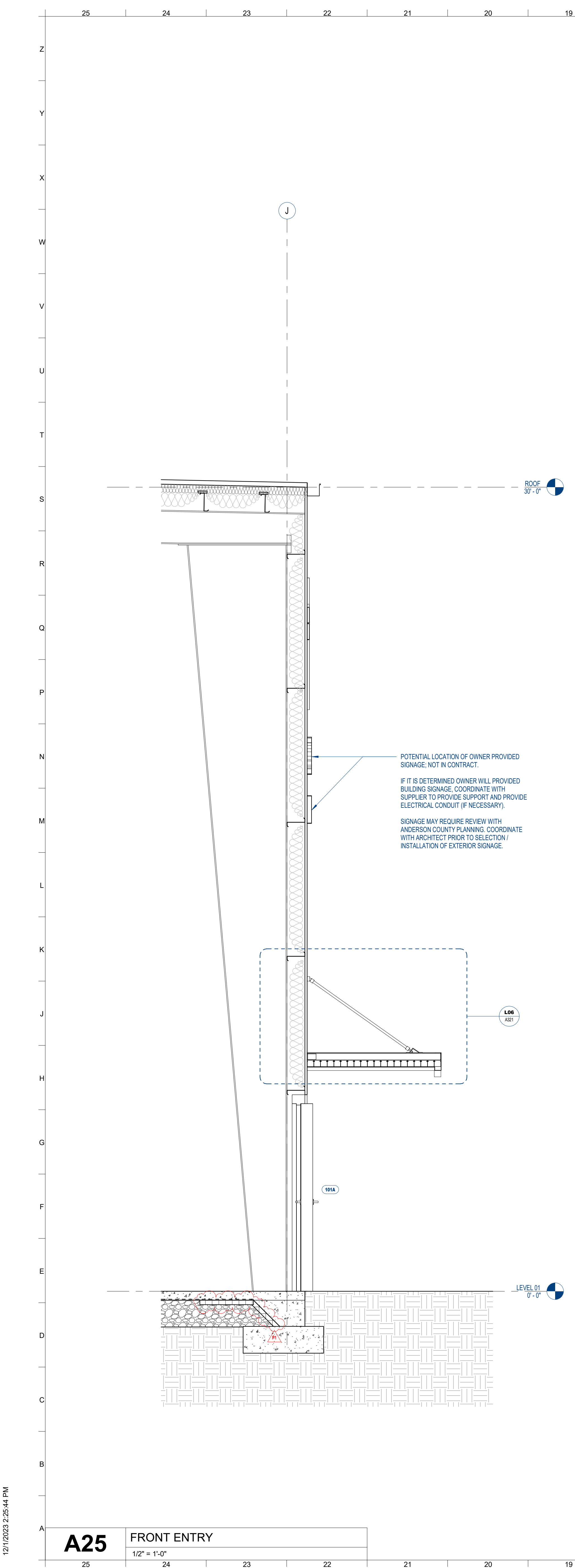
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A301
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

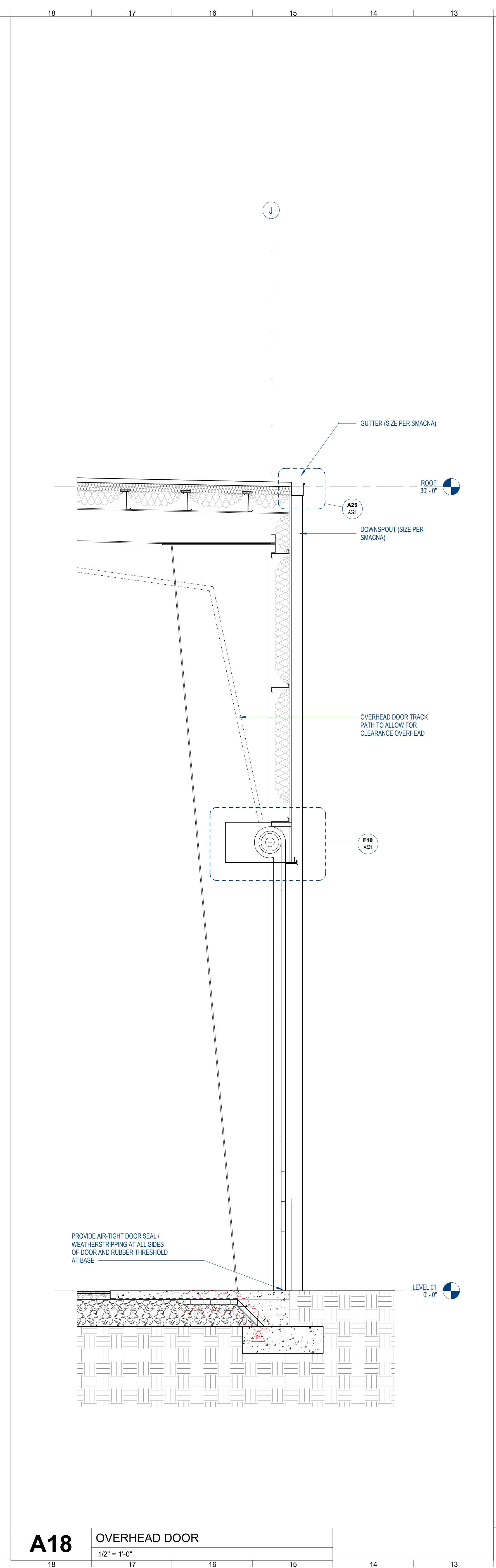
A04 KEY PLAN
NOT TO SCALE

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

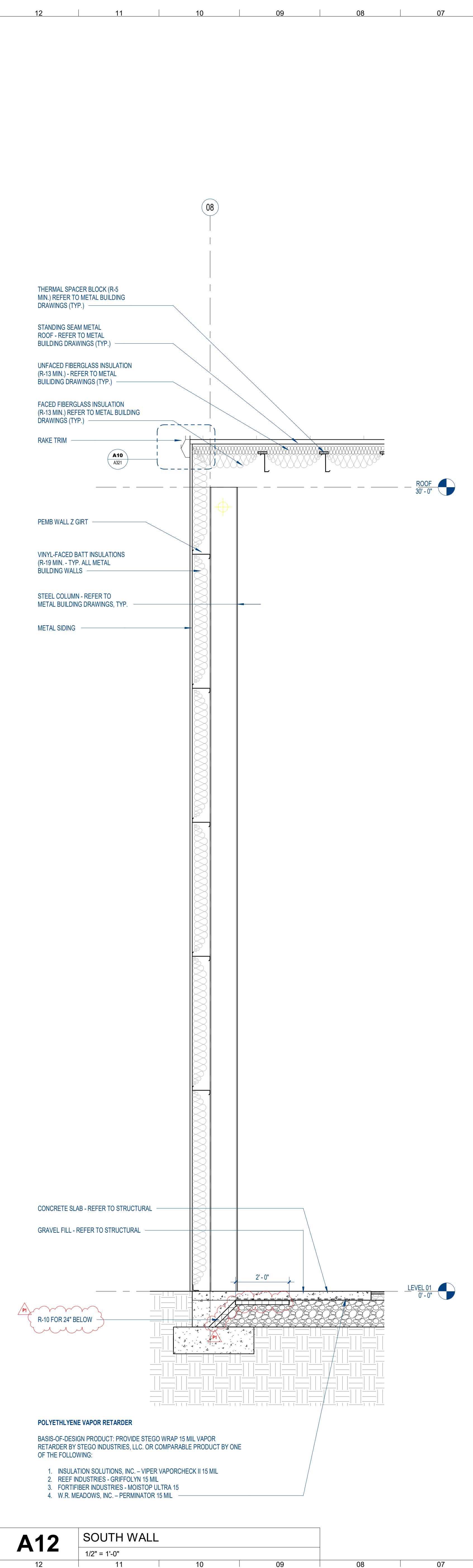
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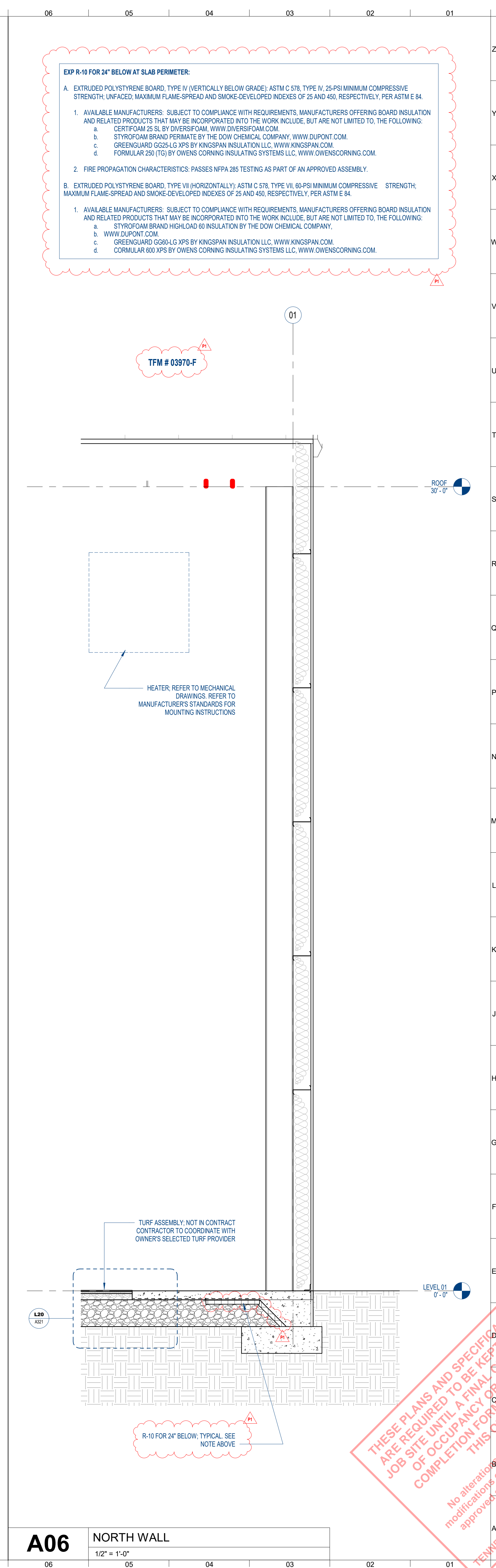
A25 FRONT ENTRY
1/2" = 1'-0"



A18 OVERHEAD DOOR
1/2" = 1'-0"



A12 SOUTH WALL
1/2" = 1'-0"



A06 NORTH WALL
1/2" = 1'-0"

EXP R-10 FOR 24" BELOW AT SLAB PERIMETER:

A. EXTRUDED POLYSTYRENE BOARD, TYPE IV (VERTICALLY BELOW GRADE); ASTM C 578, TYPE IV, 25-PSI MINIMUM COMPRESSIVE STRENGTH; UNFACED; MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.

1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING BOARD INSULATION AND RELATED PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- a. CERTIFOAM 25 SL BY OVERSPRIM, WWW.OVERSPRIM.COM
- b. STYROFOAM BRAND PERIMATE BY THE DOW CHEMICAL COMPANY, WWW.DUPONT.COM
- c. GREENGUARD G625-LG XPS BY KINGSPIAN INSULATION LLC, WWW.KINGSPIAN.COM
- d. FOAMULAR 250 (TIG) BY OWENS CORNING INSULATING SYSTEMS LLC, WWW.OWENSCORNING.COM

2. FIRE PROPAGATION CHARACTERISTICS: PASSES NFPA 285 TESTING AS PART OF AN APPROVED ASSEMBLY.

B. EXTRUDED POLYSTYRENE BOARD, TYPE VII (HORIZONTALLY); ASTM C 578, TYPE VII, 60-PSI MINIMUM COMPRESSIVE STRENGTH; MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.

1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING BOARD INSULATION AND RELATED PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- a. STYROFOAM BRAND HEIRLOAD 60 INSULATION BY THE DOW CHEMICAL COMPANY, WWW.DUPONT.COM
- b. WWW.DUPONT.COM
- c. GREENGUARD G660-LG XPS BY KINGSPIAN INSULATION LLC, WWW.KINGSPIAN.COM
- d. CORNULAR 600 XPS BY OWENS CORNING INSULATING SYSTEMS LLC, WWW.OWENSCORNING.COM

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FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

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REGISTRY OF PROFESSIONAL ARCHITECTS
SCOTT COUNTY
AGRICULTURE
NOV 15 2023
11:00 AM
TENN. STATE FIRE MARSHAL'S OFFICE

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P1 PERMITTING 2023-11-10

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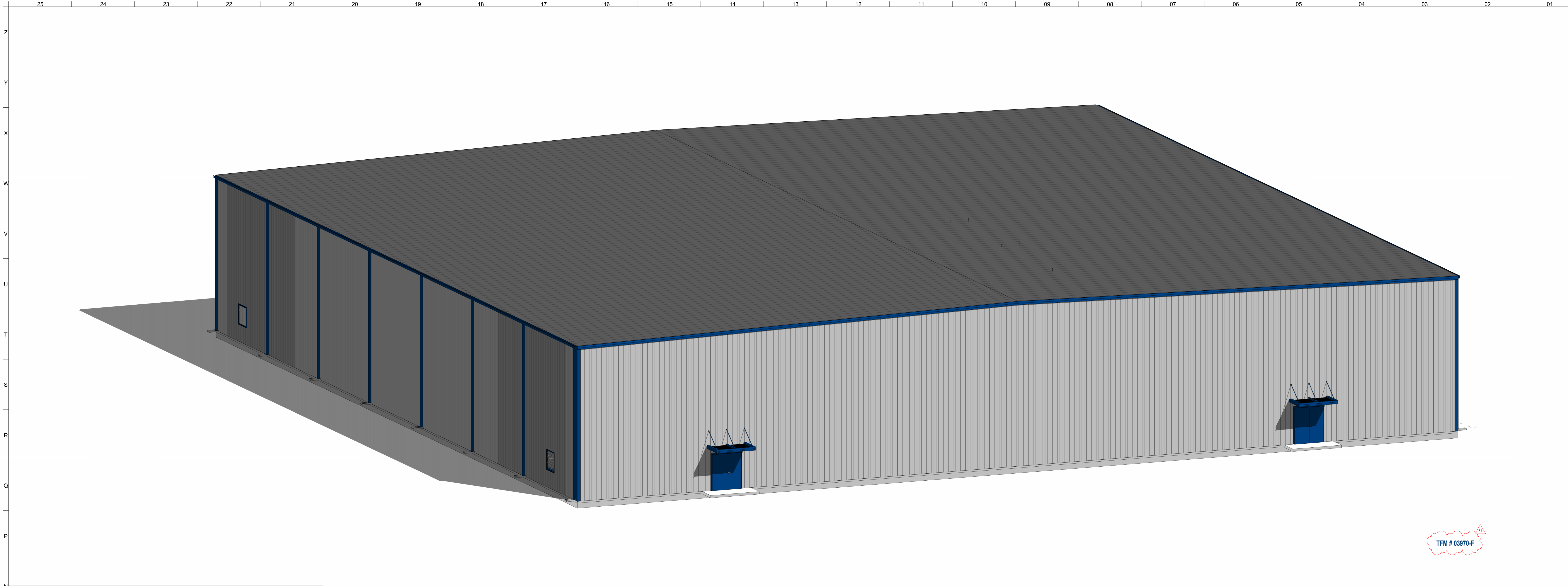
WALL SECTIONS

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TENN. STATE FIRE MARSHAL'S OFFICE

A311

PROJECT DATE PROJECT NUMBER
2023-10-17 23030



N25 3D VIEW LOOKING NORTH



A25 3D VIEW LOOKING WEST

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A NEW PROJECT FOR:
ANDERSON COUNTY SCHOOLS
TRAINING FACILITY
 ANDERSON COUNTY, TN

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT TO THE JOB SITE UNTIL A FINAL PERMITS COMPLETION FORM IS ISSUED BY THIS OFFICE.

TENNESSEE STATE FIRE MARSHAL'S OFFICE

A600
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

PRELIMINARY HYDRAULIC CALCULATIONS
for
ACS FOOTBALL PRACTICE FACILITY

by
Bedinger Consulting Engineers, P.C.
5641 Merchants Center Blvd, Suite A104
Knoxville, TN 37912

DATE: June 29, 2023 JOB # 23050

FLOW REQUIREMENTS:		
0.10 GPM over the most remote	1500.00 ft ² =	150 GPM
Inside hose stream demand		0 GPM
Outside hose stream demand		100 GPM
TOTAL FLOW REQUIREMENTS:		250 GPM

FIRE HYDRANT DATA:	
Static Pressure (PSI)	140
Residual Pressure (PSI)	40
Flow (GPM)	1060
Hydrant Elevation (Feet)	850.00

SPRINKLER SYSTEM DATA:	
Sprinkler "K" factor	5.60
Elevation of highest sprinkler (feet)	940.00
Maximum coverage per sprinkler (ft ²)	225

SUMMARY OF SYSTEM PRESSURE CALCULATIONS:		
Minimum End Head Pressure (PSI)	16.14	
Static Head Loss or (Gain) (PSI)	38.96	
Double Check Valve Loss (PSI)	7.50	
Other System Component Losses (PSI)	0.00	
Frictional Loss (PSI)	32.42	
	SUBTOTAL	95.03
Safety Factor (%):	10	9.50
	TOTAL PSI	104.53

SUMMARY	
REQUIRED PRESSURE:	104.53 PSI AT 250 GPM
AVAILABLE PRESSURE (as per flow curve):	133.09 PSI AT 250 GPM

CONCLUSION:
Available System pressure & flow is adequate - a fire pump is not required.

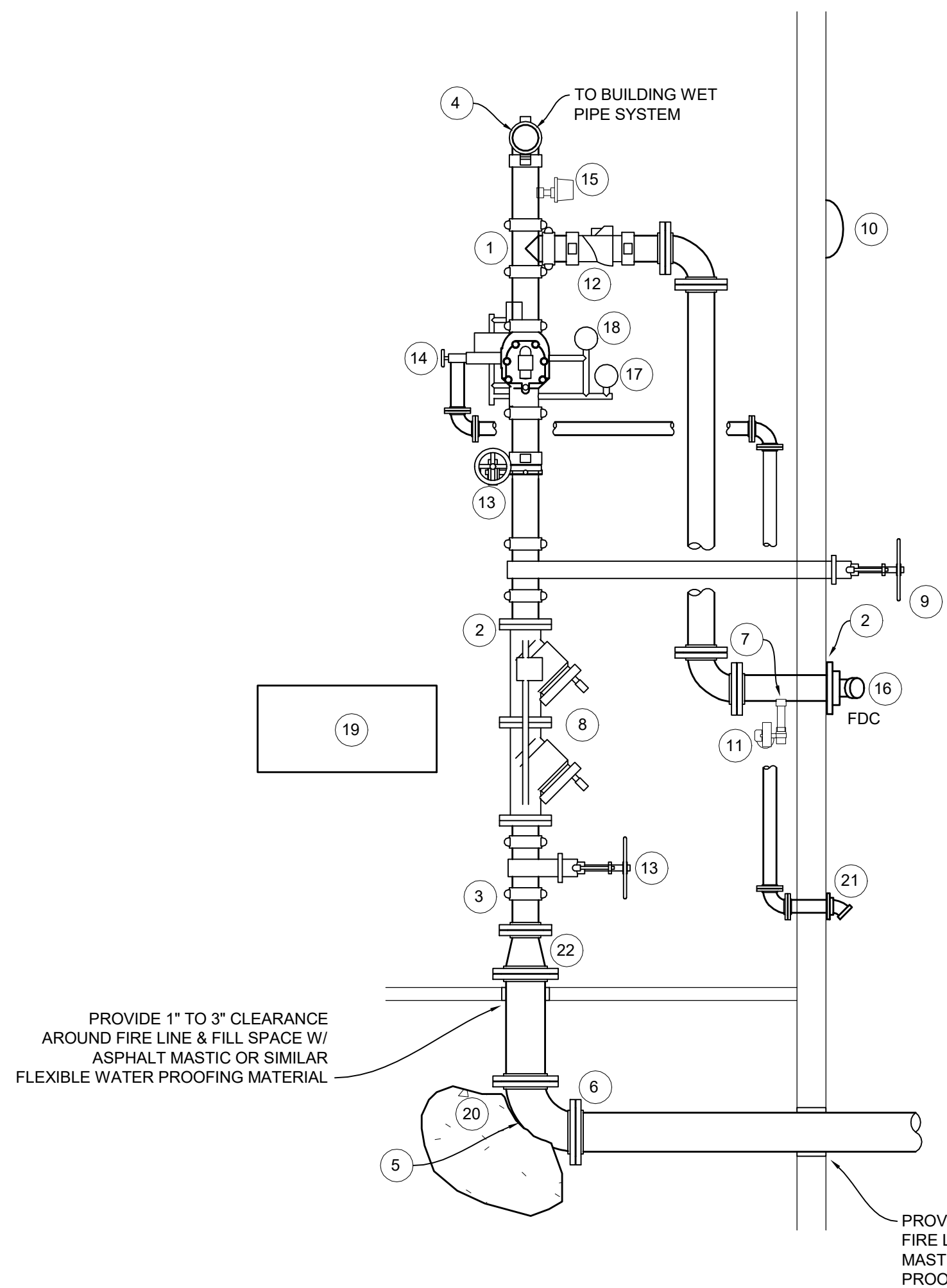
FRICTIONAL LOSS SUMMARY			
SECTION	PSI	SECTION	PSI
A to *B*	2.45		
B to *C*	5.22		
C to *D*	8.48		
D to *E*	4.81		
E to *F*	3.51		
F to *G*	7.96		
TOTAL FRICTIONAL LOSS (PSI)			32.42

NOTES:
(1) Calculations are based on the Hazen-Williams formula
(2)
(3)
(4)

SECTION "A" TO "B"			SECTION "B" TO "C"		
Diameter (inches):	1.00	Diameter (inches):	1.25		
Flow (GPM):	22.50	Flow (GPM):	45.00		
Actual Length (feet):	10	Actual Length (feet):	15		
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120		
Number of 90 degree elbows:	1	Number of 90 degree elbows:	0		
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1		
Equivalent feet of pipe per elbow:	2	Equivalent feet of pipe per elbow:	3		
Equivalent feet of pipe per TEE or cross:	5	Equivalent feet of pipe per TEE or cross:	6		
TOTAL equivalent feet of pipe:	12	TOTAL equivalent feet of pipe:	21		
Pressure Drop (psi)	2.45	Pressure Drop (psi)	5.22		

SECTION "C" TO "D"			SECTION "D" TO "E"		
Diameter (inches):	1.50	Diameter (inches):	2.00		
Flow (GPM):	90.00	Flow (GPM):	135.00		
Actual Length (feet):	15	Actual Length (feet):	15		
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120		
Number of 90 degree elbows:	0	Number of 90 degree elbows:	0		
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1		
Equivalent feet of pipe per elbow:	4	Equivalent feet of pipe per elbow:	5		
Equivalent feet of pipe per TEE or cross:	8	Equivalent feet of pipe per TEE or cross:	10		
TOTAL equivalent feet of pipe:	23	TOTAL equivalent feet of pipe:	25		
Pressure Drop (psi)	8.48	Pressure Drop (psi)	4.81		

SECTION "E" TO "F"			SECTION "F" TO "G"		
Diameter (inches):	4.00	Diameter (inches):	6.00		
Flow (GPM):	150.00	Flow (GPM):	250.00		
Actual Length (feet):	400	Actual Length (feet):	2650		
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120		
Number of 90 degree elbows:	4	Number of 90 degree elbows:	10		
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0		
Equivalent feet of pipe per elbow:	10	Equivalent feet of pipe per elbow:	14		
Equivalent feet of pipe per TEE or cross:	20	Equivalent feet of pipe per TEE or cross:	30		
TOTAL equivalent feet of pipe:	440	TOTAL equivalent feet of pipe:	2790		
Pressure Drop (psi)	3.51	Pressure Drop (psi)	7.96		

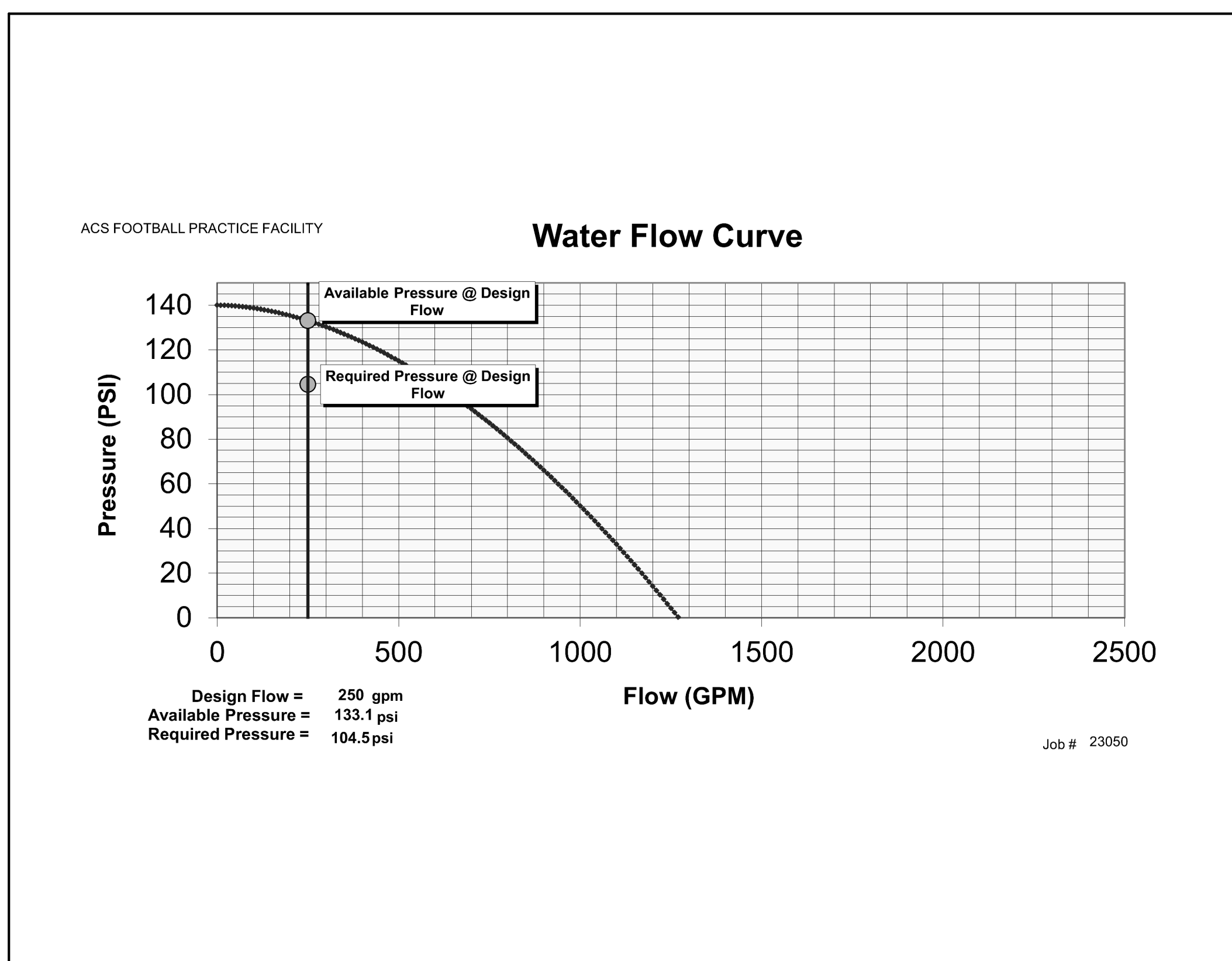


- 1 4"x4" VIC FIRELOCK TEE NO. 002
- 2 4" VIC FIRELOCK FLANGE ADAPTER STYLE 744
- 3 4" VIC FIRELOCK COUPLING STYLE 009N
- 4 4" VIC FIRELOCK 90 DEG ELBOW NO. 001
- 5 6" BUTTWELD 90 DEG LR ELBOW STANDARD WEIGHT
- 6 6" 150 LB SLIP-ON FLANGE
- 7 1" 150 LB HALF COUPLING
- 8 DOUBLE DETECTOR CHECK VALVE
- 9 VIC WALL POST INDICATOR S/773 & 4" VIC FIRELOCK NRS GATE VALVE SERIES 772H GRV X GRV WITH TAMPER SWITCH
- 10 APPROVED AUDIBLE DEVICE MOUNTED ON EXTERIOR OF BUILDING
- 11 1" VIC FIRELOCK BALL VALVE SERIES 728 THREADED
- 12 4" FIRELOCK CHECK VALVE SERIES 717
- 13 4" FIRELOCK BUTTERFLY VALVE SERIES 705 WITH WEATHERPROOF ACT 300 PSI & BUILT IN TAMPER SWITCH
- 14 4" FIRELOCK ALARM CHECK VALVE SERIES 751 W/ SERIES 752 FIRELOCK RETARD CHAMBER, SERIES 760 WATER MOTOR ALARM, DRAIN CONNECTION KIT & ALARM PRESSURE SWITCHES
- 15 ALARM PRESSURE SWITCH
- 16 3/8" FIRE DEPARTMENT INLET CONNECTION - VERIFY EXACT REQUIREMENTS WITH LOCAL AHJ
- 17 SUPPLY PRESSURE GAUGE
- 18 SYSTEM PRESSURE GAUGE
- 19 SPARE SPRINKLER HEAD BACINET
- 20 CONCRETE THRUST BLOCK
- 21 2" DRAIN OUTLET
- 22 6"x4" CONCENTRIC REDUCER

PROVIDE 1" TO 3" CLEARANCE AROUND FIRE LINE & FILL SPACE W/ ASPHALT MASTIC OR SIMILAR FLEXIBLE WATER PROOFING MATERIAL

PROVIDE 1" TO 3" CLEARANCE AROUND FIRE LINE & FILL SPACE W/ ASPHALT MASTIC OR SIMILAR FLEXIBLE WATER PROOFING MATERIAL

FIRE RISER DETAIL
N.T.S.



GENERAL NOTES:

1. THESE DRAWINGS ARE FOR CONCEPT ONLY. THEY ARE NOT INTENDED TO BE USED FOR TAKE-OFF, ACTUAL HEAD NUMBERS OR ACTUAL DESIGN USE. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM COMPLETE WITH ALL WORKING PARTS IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE ANY ADDITIONAL HEADS REQUIRED DUE TO BLIND OR SHADED AREAS AT NO ADDITIONAL COST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PRELIMINARY HYDRAULIC CALCULATIONS ARE BASED ON MEASURED FLOW AT EXISTING PRIVATE FIRE HYDRANT "WYVEXBC" NEAR THE FRONT ENTRANCE OF THE HIGH SCHOOL. FLOW TEST BY MORRISTOWN AUTOMATIC SPRINKLER CO. AUGUST 01, 2023.
FLOW TEST CONDUCTED BY AUSTIN DUNN
STATIC PRESSURE: 140 PSI
RESIDUAL PRESSURE: 40 PSI AT 1060 GPM
HYDRANT ELEVATION = 880 FT.
3. ALL VALVES IN THE LINE FROM THE POINT OF SERVICE (POS) ARE TO BE ELECTRONICALLY SUPERVISED. ALL WORK PERFORMED DOWNSIDE OF THE POS SHALL BE PERFORMED BY A STATE OF TENNESSEE REGISTERED SPRINKLER CONTRACTOR.
4. ALL SYSTEM VALVES AND GAUGES SHALL BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.

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SHEET DESCRIPTION
PRELIMINARY HYDRAULIC CALCULATIONS

FP001
PROJECT DATE: 2023-10-17 PROJECT NUMBER: 23030

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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

TFM# 03970-F PROJECT# 2023-10-18-02

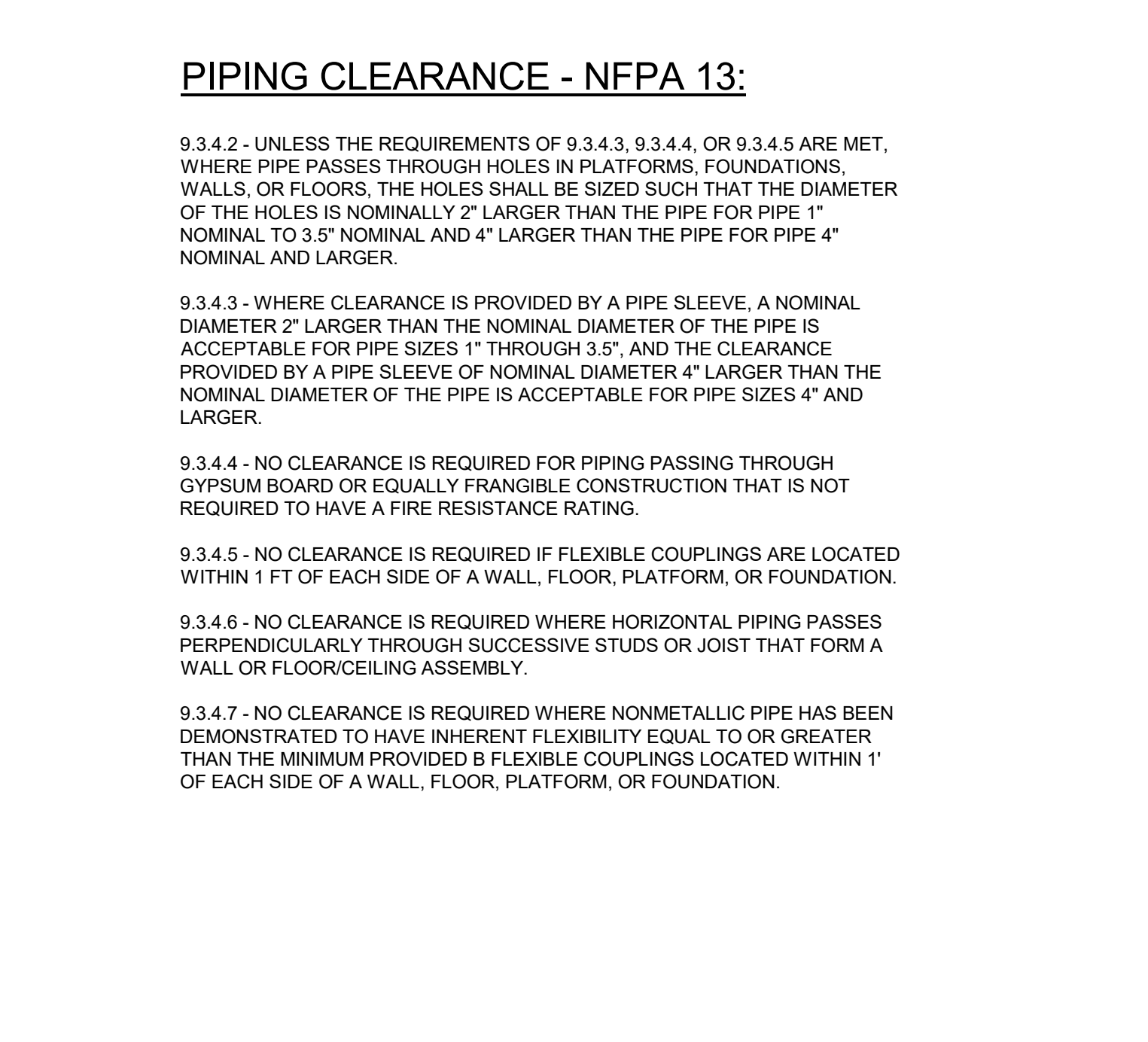
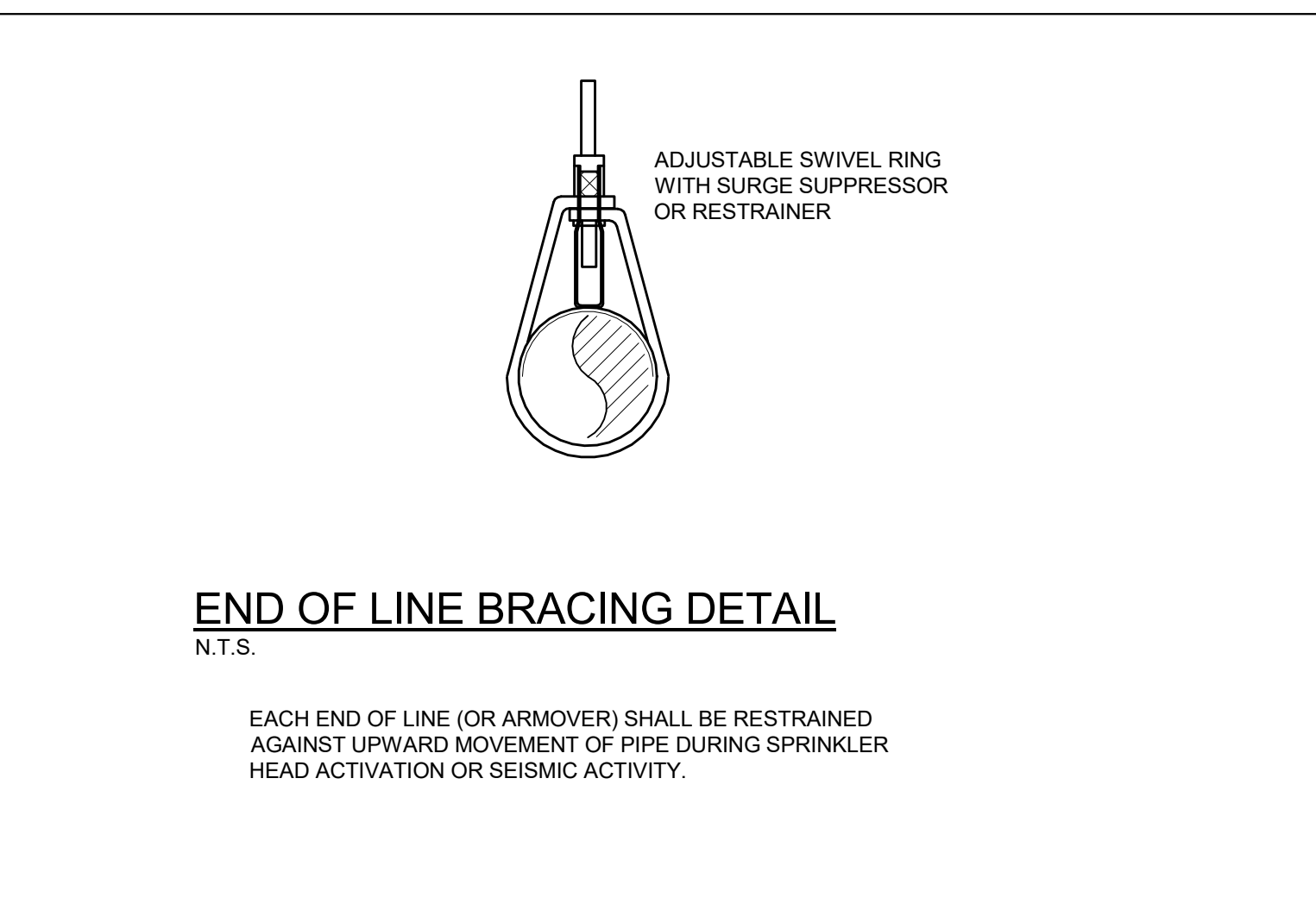
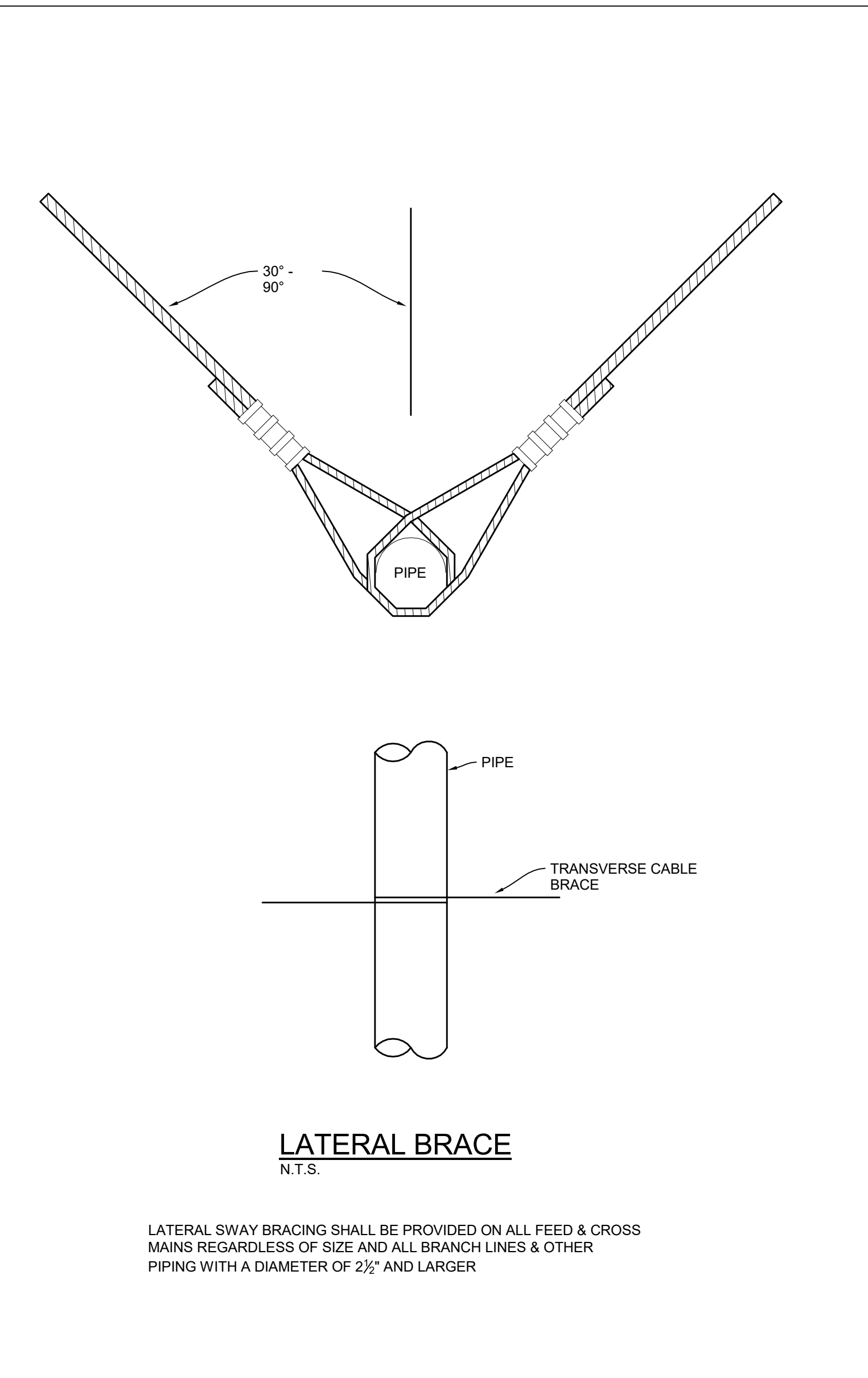
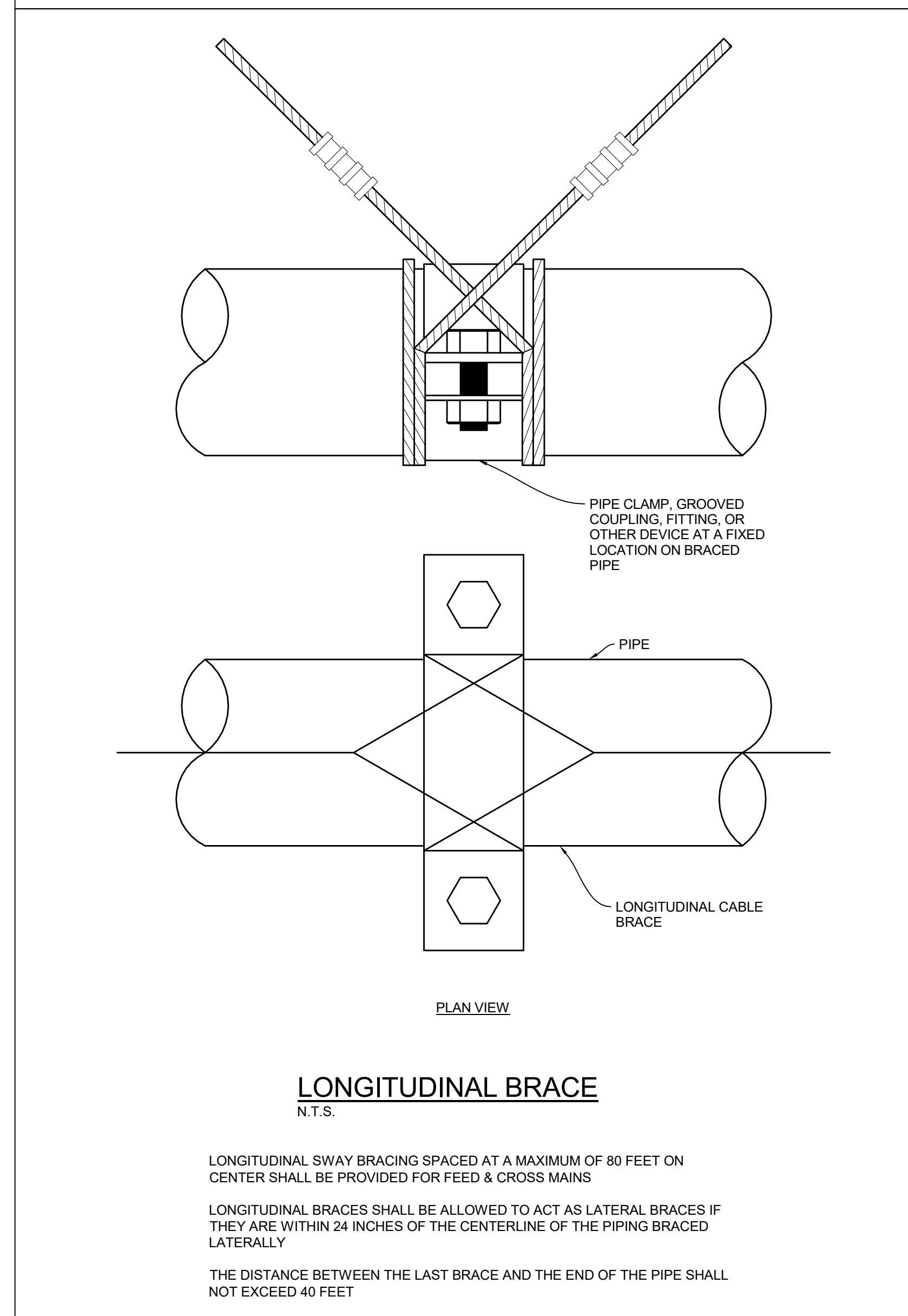
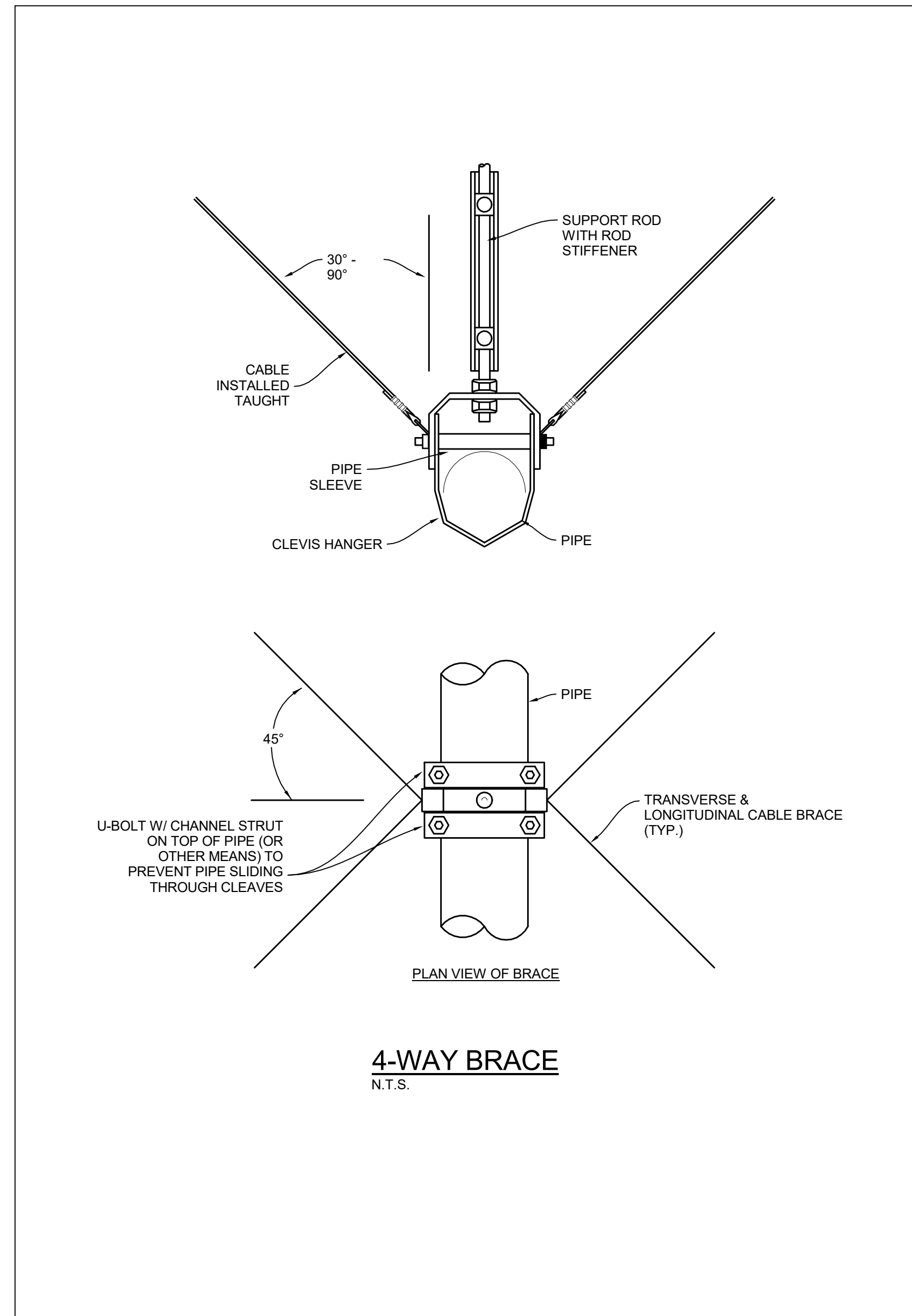
FIELD SET

SPRINKLER LEGEND

SYMBOL	GENERAL DESCRIPTION	K FACTOR	TYPE	VICTAULIC MODEL	TEMPERATURE RATING (°F)
●	RECESSED PENDENT	5.6	QUICK RESPONSE	V2708	155
○	UPRIGHT	5.6	QUICK RESPONSE	V2704	155

FIRE PROTECTION SPECIFICATIONS

- FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND PERFORM ALL WORK AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE FURNISHING AND INSTALLATION, COMPLETE, OF ALL FIRE PROTECTION SYSTEMS. ALL MATERIAL SHALL BE NEW, UNUSED, AND OF FIRST CLASS CONSTRUCTION, DESIGNED AND GUARANTEED TO PERFORM THE SERVICE REQUIRED.
- THE LOCAL AUTHORITY HAVING JURISDICTION SHALL APPROVE ALL WORK AND MATERIAL, THE FIRE PROTECTION / FIRE DETECTION AND ALARM SYSTEMS SHALL USE UL LISTED MATERIALS AND EQUIPMENT, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND NFPA 13.
- THE FIRE PROTECTION DRAWINGS CONTAINED WITHIN THE CONSTRUCTION DOCUMENTS ARE FOR CONCEPT ONLY. THE INSTALLING SPRINKLER CONTRACTOR SHALL SUBMIT DIRECTLY TO THE FIRE MARSHAL'S OFFICE, OR OTHER INSPECTION AGENCIES, FOR REVIEW DETAILED INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS. THE DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A RESPONSIBLE MANAGING EMPLOYEE AND SUBMITTED BY A REGISTERED FIRE PROTECTION CONTRACTOR. THE SPRINKLER CONTRACTOR SHALL SUBMIT APPROVED INSTALLATION DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCING WORK. THE SPRINKLER CONTRACTOR'S INSTALLATION DRAWINGS, ESPECIALLY SPRINKLER HEAD LOCATIONS, SHALL BE COORDINATED WITH THE ARCHITECTURAL, REFLECTED CEILING PLAN AND OTHER ARCHITECTURAL OR STRUCTURAL FEATURES OF THE BUILDING. THE SYSTEM SHALL BE INSTALLED ACCORDING TO THE APPROVED DRAWINGS.
- THE SHOP DRAWINGS TO BE PREPARED BY THE FIRE PROTECTION CONTRACTOR NOTED IN ITEM #3 ABOVE SHALL BE REVIEWED & PROCESSED WITH A SHOP DRAWING REVIEW STAMP BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE TSMO.
- SEISMIC DESIGN CATEGORY "C"; BUILDING RISK CATEGORY II
- THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF 0.10 GPM PER SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. FOR ALL SPACES (EIGHT HAZARD) EXCEPT STORAGE ROOMS WHERE 0.20 GPM PER SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. SHALL BE USED (ORDINARY HAZARD GROUP 1).
- THE SPRINKLER SYSTEM SHALL BE WET TYPE.
- ALL INTERIOR PIPING ABOVE GROUND SHALL BE SCHEDULE 40 OR SCHEDULE 10 BLACK STEEL PIPE WITH 175 POUND C.I. OR VICTAULIC COUPLINGS, 2 INCHES AND LARGER; CONNECTIONS AROUND VALVES AND SERVICE CONNECTIONS MAY BE 175 POUND FLANGED, GROOVED END FITTINGS SHALL BE SHORT-PATTERN WITH FLOW EQUAL TO STANDARD PATTERN FITTINGS, VICTAULIC "FIRELOCK" OR VICTAULIC INSTALLATION READY FITTINGS, FITTINGS 2" AND LARGER SHALL BE 175 POUND C.I. GROOVED JOINT COUPLINGS SHALL CONSIST OF TWO DUCTILE IRON HOUSING SEGMENTS, PRESSURE RESPONSIVE ELASTOMER GASKET AND ASTM A-449 ZINC-PLATED STEEL BOLTS AND NUTS.
- IN LIEU OF THREADED 1" STEEL PIPING SYSTEMS, THE VICTAULIC FIRELOCK IGS SYSTEM WITH IR FITTINGS AND COUPLINGS FOR NPS 1 (DN 25) SCHEDULE 10 AND SCHEDULE 40 CARBON STEEL PIPE MAY BE USED.
- RIGID COUPLING HOUSINGS EQUAL TO VICTAULIC STYLE 009H AND 107N WITH OFFSETTING, ANGLE- PATTERN BOLT PADS SHALL BE USED TO PROVIDE SYSTEM RIGIDITY AND SUPPORT AND HANGING IN ACCORDANCE WITH NFPA-13. COUPLINGS SHALL BE FULLY INSTALLED AT VISUAL PAD-TO-PAD OFFSET CONTACT. COUPLINGS THAT REQUIRE GAPPING OF BOLT PADS OR SPECIFIC TORQUE RATINGS FOR PROPER INSTALLATION ARE NOT PERMITTED. INSTALLATION-READY, FOR DIRECT STAB INSTALLATION WITHOUT FIELD DISASSEMBLY, FLEXIBLE USE IN LOCATIONS WHERE VIBRATION ATTENUATION AND STRESS RELIEF ARE REQUIRED. COUPLINGS SHALL BE EQUAL TO VICTAULIC STYLE 177 INSTALLATION-READY, AND STYLE 75 AND 77.
- AT THE CONTRACTOR'S OPTION AND WHERE APPROVED BY NFPA, THE INSURANCE CARRIER AND LOCAL AUTHORITIES HAVING JURISDICTION, ALL INTERIOR CONCEALED PIPING 3" AND SMALLER MAY BE CPVC SDR 13.5 EQUAL TO BLAZEMASTER. THE PIPING SHALL BE ASSEMBLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- P.V. O.S. & V. VALVES AND CHECK VALVES SHALL BE APPROVED BY NFPA EQUAL TO VICTAULIC "SERIES 771". TEST AND DRAIN VALVES SHALL BE APPROVED AND CONFORM TO REQUIREMENTS OF NFPA. ALL P.V. AND O.S. & V. VALVES USED ON THE FIRE PROTECTION SYSTEM SHALL HAVE PROVISIONS FOR PADLOCKING AND SWITCHES FOR MONITORING POSITION OF THE VALVE.
- BUTTERFLY VALVES SHALL BE EQUAL TO VICTAULIC SERIES 705 FIRELOCK, UL/GLOBAL APPROVED, 300 PSI, GROOVED ENDS, COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, WITH EXTENDED NECK. ELECTROLESS-NICKEL COATED DUCTILE IRON DISC WITH PRESSURE RESPONSIVE SEAT AND STAINLESS STEEL STEM. STEM SHALL BE OFFSET FROM THE DISC CENTERLINE TO PROVIDE COMPLETE 360 DEGREE CIRCUMFERENTIAL SEATING. COMPLETE WITH WEATHERPROOF ACTUATOR AND PRE-WIRED SUPERVISORY SWITCHES.
- CHECK VALVES SHALL BE EQUAL TO VICTAULIC SERIES 717 BLACK ENAMEL COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, STAINLESS STEEL SPRING AND SHAFT, WELDED-IN NICKEL SEAT, 250 PSI, SUITABLE FOR VERTICAL OR HORIZONTAL INSTALLATION.
- ALARM CHECK VALVE SHALL BE EQUAL TO VICTAULIC FIRELOCK SERIES 751 BLACK ENAMEL COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, ALUMINUM BRONZE CLAPPER, STAINLESS STEEL SPRING AND SHAFT, EPDM SEAL AND NITRILE SEAT. VALVE INTERNAL PARTS SHALL BE REPLACEABLE WITHOUT REMOVING THE VALVE FROM THE INSTALLED POSITION. WATER WORKING PRESSURE IS 300 PSI. SUITABLE FOR CONSTANT AND VARIABLE PRESSURE SYSTEMS WITH OPTIONAL SERIES 752 RETARD CHAMBER.
- RISER CHECK & FLOOR CONTROL ASSEMBLY MAY BE USED & SHALL BE EQUAL TO VICTAULIC MODEL UMC, UNIVERSAL MANIFOLD CHECK VALVE, DUCTILE IRON CONSTRUCTION INCORPORATING A CONTROL VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE & SYSTEM GAUGES IN ONE COMPACT BODY. THE ASSEMBLY SHALL BE RATED FOR USE AT THE MAXIMUM SERVICE PRESSURE OF 300 PSI & SHALL BE UL LISTED & FM APPROVED.
- CONTRACTOR TO VERIFY FIRE DEPARTMENT CONNECTION REQUIREMENTS WITH LOCAL AHJ.
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- INSTALL APPROVED DRAINS AT LOW POINTS OF ALL PIPING TO PERMIT COMPLETE DRAINAGE OF SYSTEM WITHOUT DISCONNECTION OF ANY PIPING. FLOW SWITCH TEST DRAINS AND OTHER DRAINS SHALL BE RUN THROUGH OUTSIDE WALL AND DISCHARGED IN A MANNER APPROVED BY NFPA.
- INSTALL AN APPROVED SINGLE AIR VENT NEAR HIGHEST POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED IN A MANNER APPROVED BY NFPA.
- INSTALL AN APPROVED INSPECTOR'S TEST CONNECTION AT THE END OF THE BRANCH LINE THAT IS MOST REMOTE FROM THE SYSTEM SUPPLY AND AT THE HIGHEST POINT ON THE SYSTEM. THE DISCHARGE FROM THE INSPECTOR'S TEST MUST BE UNOBSTRUCTED AND VISIBLE AND LOCATED IN A MANNER APPROVED BY NFPA.
- ALL SPRINKLER HEADS SHALL BE THE QUICK RESPONSE TYPE AND BE UL LISTED. ALL SPRINKLER HEADS SHALL BE OF TYPE AND OPERATING TEMPERATURE AS REQUIRED BY SPECIFIC LOCATIONS OF INSTALLATION. VICTAULIC FIRELOCK STYLE V9 COUPLING MAY BE USED TO JOIN 1/2", 3/4" AND 1" SPRINKLERS.
- ALL SPRINKLER HEADS LOCATED IN HORIZONTAL, FLAT CEILINGS IN FINISHED SPACES SHALL BE RECESSED, CHROME PENDANT TYPE HEADS. SPRINKLER HEADS IN THE PENHOUSE, STAIRWELLS AND OTHER UNFINISHED SPACES SHALL BE BRASS UPRIGHT TYPE. TWO PIECE ESCUTCHEONS SHALL BE USED.
- FLEXIBLE HOSE CONNECTIONS TO SPRINKLER HEADS MAY BE USED BUT SHALL BE EQUAL TO VICTAULIC AH2/AH2CC HOSE WITH A82 BRACKET. IN LIEU OF RIGID CONNECTIONS TO DRY SPRINKLER HEADS, A VICTAULIC VICTEX™ DRY SPRINKLER, MODEL V51, MAY BE USED. THE SPRINKLER SHALL PROVIDE A VERTICAL OR HORIZONTAL FLEXIBLE CONNECTION WITH A BEND RADIUS TO 2", AND ALLOW FOR UP TO 4 BENDS. VICTAULIC A86 BRACKET MAY BE USED.
- ALL SPRINKLER HEADS SHALL BE FURNISHED & INSTALLED WITH WIRE GYM GUARDS.
- ALL SPRINKLER HEADS LOCATED IN ELEVATOR MACHINE ROOMS AND SHAFTS SHALL BE 212-DEGREE HEADS. THE PIPING SHALL ONLY ENTER THE SHAFT AND/OR MACHINE ROOM TO ACCOMMODATE THE LOCATION OF THE HEAD. SHUT OFF VALVES SHALL BE PROVIDED FOR EACH BRANCH LINE IN ACCESSIBLE LOCATIONS OUTSIDE OF THE EQUIPMENT ROOMS, MACHINE ROOMS, AND PITS. THESE VALVES SHALL BE LISTED AND SUPERVISED ELECTRICALLY.
- SPARE HEADS OF EVERY TYPE USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET. A SPRINKLER WRENCH SPECIFICALLY ADAPTED TO REMOVAL AND REPLACEMENT OF EVERY TYPE OF HEAD USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET.
- THE SPRINKLER SYSTEM SHALL COMPLY WITH ALL CODES, REQUIREMENTS, REGULATIONS AND PROVISIONS OF THE LAW OF THE STATE OF TENNESSEE AND NFPA.
- WORK INCLUDED HEREIN SHALL INCLUDE ALL TESTS AND INSPECTIONS BY THE INSPECTING AGENCIES AND ANY PERMITS OR INSPECTION FEES CONNECTED THEREWITH. FOLLOWING ALL TESTING, THE SYSTEM SHALL BE RETURNED TO A FUNCTIONAL AND OPERATIONAL CONDITION AT NO EXTRA COST TO THE OWNER. AFTER APPROVAL, THE CONTRACTOR SHALL OBTAIN THE APPROVAL CERTIFICATES AND DELIVER THEM TO THE ARCHITECT.



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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

TFM# 03970-F PROJECT# 2023-10-18-02

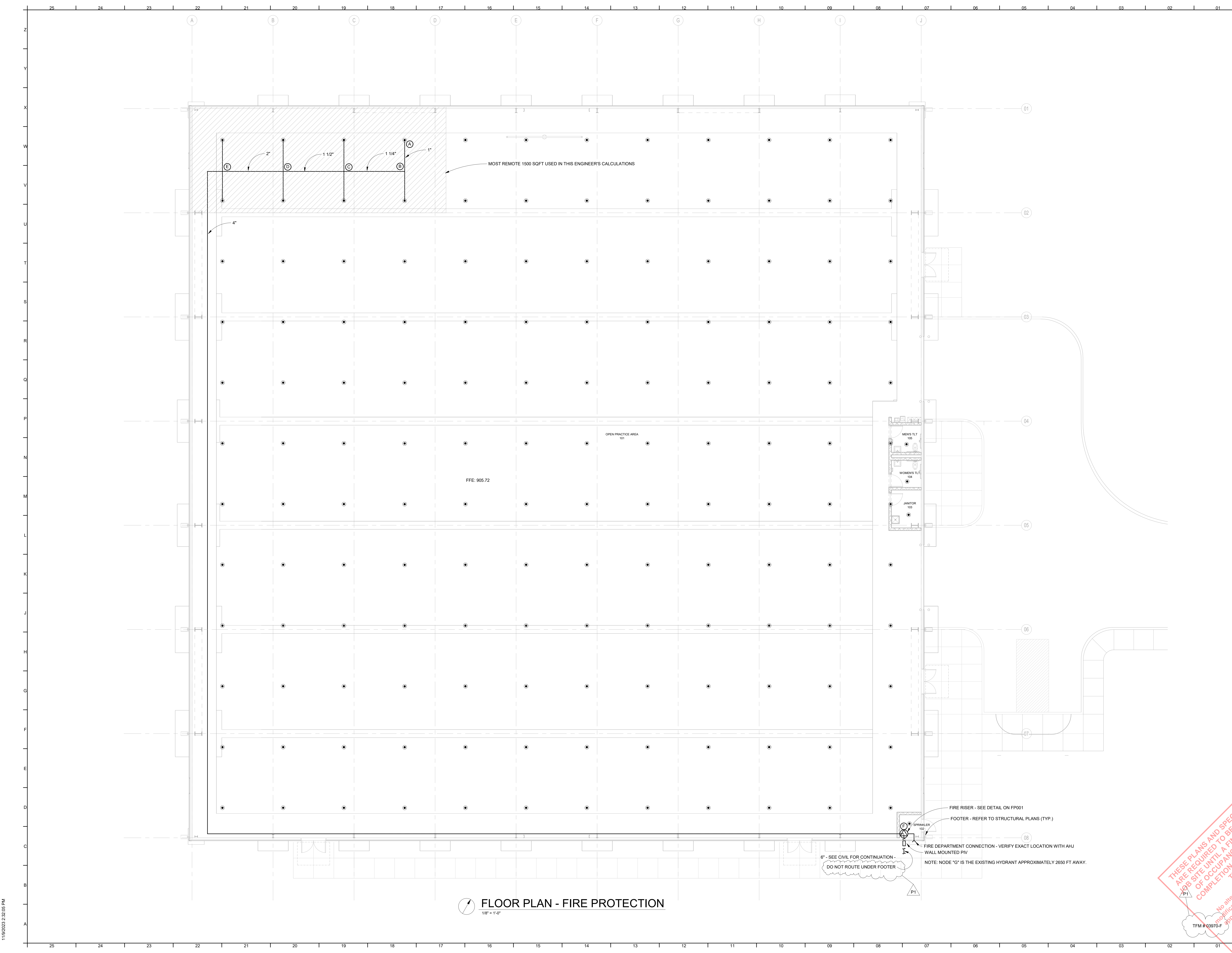
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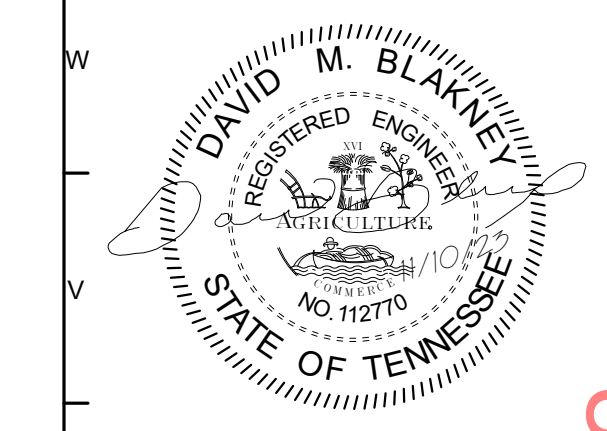
FP002
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11/9/2023 2:32:05 PM



FLOOR PLAN - FIRE PROTECTION
 1/8" = 1'-0"

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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

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FP101
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

PLUMBING FIXTURE SCHEDULE					
ITEM	DESCRIPTION	SPECIFICATION	CW	HW	REMARKS
W	WATER CLOSET (ADA)	ZURN, Z5665-BWL1 1.6, 1.28 OR 1.1GPF ADA SIPHON JET FLUSH ACTION FLOOR MOUNTED ADA HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY	1"		
	FLUSH VALVE	ZURN, Z6000AV-W51 AQUAVANTAGE MANUAL OPERATED FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS.			
	SEAT	ZURN, Z59555-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE			
L	LAVATORY (ADA)	ZURN, Z5344 20"x18" WALL HUNG 4"CC VITREOUS CHINA CONCEALED ARM LAVATORY	1/2"	1/2"	
	FAUCET	ZURN, Z7440-XL-FC SIERRA SINGLE HANDLE 4CC LAVATORY FAUCET WITH .5GPM AERATOR AND CERAMIC DISC CARTRIDGE			
	DRAIN	ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN			
	SUPPLIES	ZURN, Z8804-XL-8860-20-LRC-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND 20 INCH BRAIDED STAINLESS STEEL SUPPLY LINES			
	P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT			
	THERMOSTATIC MIXING VALVE	SYMMONS, 8-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE			
	TRAP WRAP	ZURN, Z8946-1-NI COMBINATION TRAP WRAP KIT WITH ONE TRAP AND TWO SUPPLY PROTECTION WRAPS			
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER			
EWC	BOTTLE FILLER	ELKAY, LZ5TL8W5SP VERSATILE HIGH SIDE 8I-LEVEL WALL MOUNTED STAINLESS STEEL NON-PRESSURIZED WATER COOLER WITH FLEX GUARD BUBBLER, 3000 GALLON FILTER, SENSOR ACTIVATED 1.1GPM BOTTLE FILLER WITH LED LIGHTS, LED FILTER MONITOR AND BOTTLES FILLED COUNTER, 115V/60HZ	1/2"		
	SUPPLY	ZURN, Z8804-XL-8860-CR-Q-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEON, 1/4 TURN CHROME PLATED STOP AND BRAIDED STAINLESS STEEL SUPPLY LINE			
	P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT			
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER			
SS	SINK	ZURN, Z1996-24-BV-24-HH-MH-WG 24" X 24" MOLDED COMPOSITE FLOOR SERVICE SINK WITH STAINLESS STEEL STRAINER, WALL GUARDS, AND VINYL BUMPER GUARD			
	FAUCET	ZURN, Z841M1-RC SERVICE SINK FAUCET WITH 6" VACUUM BREAKER SPOUT, LEVER HANDLES, PAIL HOOK AND WALL BRACE			
FD	FLOOR DRAIN	ZURN, ZN4158P DURA-COATED CAST IRON BODY FLOOR DRAIN WITH 8" POLISHED NICEL BRONZE STRAINER WITH CLEANOUT PLUG WHEN REQUIRED AND DEEP SEAL TRAP OR TRAP PRIMER CONNECTION W/ ACCESS DOOR (IF REQUIRED)			
FCO	FLOOR CLEANOUT	ZURN, ZN1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, NICKEL BRONZE TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT			SEE FLOOR PLAN FOR SIZE
GCO	GROUND CLEANOUT	ZURN, Z1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, CAST IRON TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT			SEE FLOOR PLAN FOR SIZE

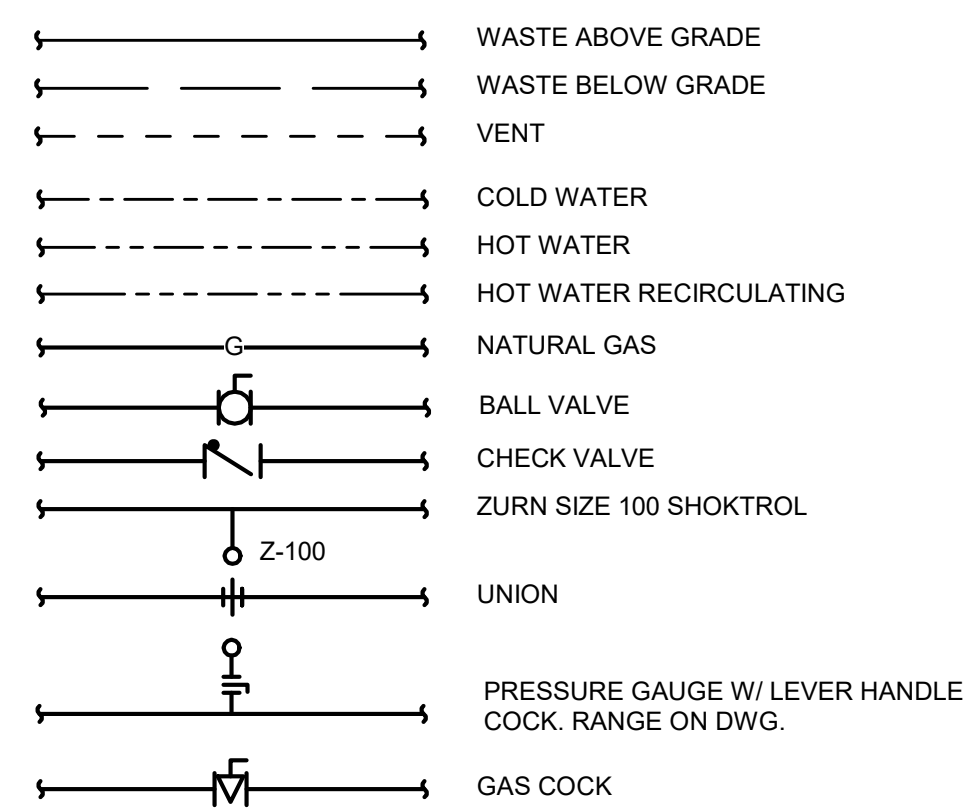
PLUMBING SPECIFICATIONS

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF FIXTURES AND EQUIPMENT AND THE ROUTING OF PIPING IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE PLUMBING DRAWINGS.
- INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- THE BUILDING IS ASSIGNED TO SEISMIC DESIGN CATEGORY C, RISK CATEGORY II, THEREFORE, THE PLUMBING COMPONENTS ARE EXEMPTED FROM SEISMIC REVIEW. VERIFY WITH THE ARCHITECT.
- INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC SOLID WALL-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
- THE TOP OF ANY BELOW SLAB PIPING SHALL BE NO LESS THAN 2" FROM THE BOTTOM OF THE SLAB.
- INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS AT BASE OF ALL SOIL AND WASTE STACKS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
- THIS CONTRACTOR IS TO ARRANGE WITH THE LOCAL UTILITY COMPANY FOR INSTALLATION OF THE GAS SERVICE, METER, REGULATOR, ETC. AND PAY ALL COSTS FOR PERMITS, FEES, INSTALLATION AND INSPECTIONS.
- INSTALLATION OF GAS PIPING SHALL COMPLY WITH THE LOCAL UTILITY CO., INTERNATIONAL GAS CODE, NFPA AND ALL OTHER AGENCIES HAVING JURISDICTION. ABOVE GROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASSEMBLED WITH MALLEABLE IRON FITTINGS & GROUND JOINT UNIONS. GAS PIPING AT EACH APPLIANCE SHALL HAVE DIRT LEG & AN AGA GAS COCK. PAINT ALL GAS PIPING ON THE EXTERIOR AND INTERIOR OF THE BUILDING WITH TWO COATS OF CAUTION YELLOW PAINT.
- ABOVE GRADE DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER, TYPE "L" PIPING ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. CONNECTIONS OF COPPER PIPE TO FERROUS PIPE SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
- DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYLENE PE-XA AS MANUFACTURED BY REHAU. FITTINGS SHALL BE AS RECOMMENDED BY THE PE-XA MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER, INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER.
- ALL COLD WATER, HOT WATER AND HOT WATER RECIRCULATING LINES SHALL BE INSULATED WITH ARMAFLEX, OR EQUAL, WITH A FLAME SPREAD AND SMOKE DEVELOPED RATINGS NOT EXCEEDING 25 AND 50 RESPECTIVELY.

COLD WATER
1/2" TO 1 1/2" PIPE - 1/2" THICK INSULATION
1 1/2" TO 8" PIPE - 1" THICK INSULATION

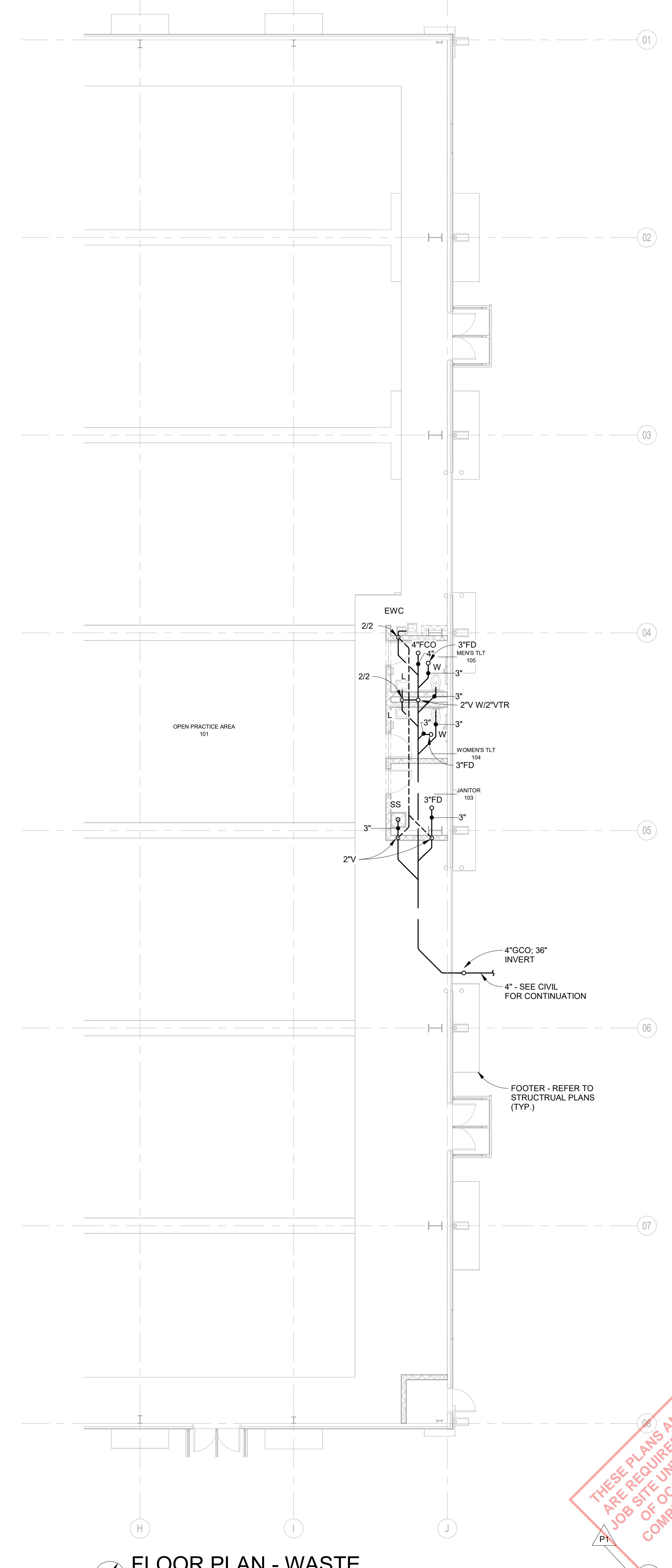
HOT WATER & HOT WATER RECIRCULATING
1/2" TO 1 1/2" PIPE - 1" THICK INSULATION
1" TO 8" PIPE - 1 1/2" THICK INSULATION
- ALL COLD WATER PIPING IN OUTSIDE WALLS OR WALLS ADJACENT TO AN UNHEATED SPACE SHALL BE INSULATED AS SPECIFIED WITH A MINIMUM OF 1" THICKNESS.
- THE TAILPIECE, TRAP & WATER SUPPLIES FOR ALL HANDICAPPED LAVATORIES SHALL BE INSULATED WITH MOLDED ANTIMICROBIAL INSULATION KIT EQUAL TO TRUEBRO, INC. HAND-LAV GUARD. VERIFY COLOR WITH THE ARCHITECT.
- WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE CALLED FOR ON THE DRAWINGS AND BE ZURN SERIES Z-1700 SHOKTROL, OR EQUAL WITH NESTING TYPE BELLOW. THE CASING AND BELLOW SHALL BE CONSTRUCTED OF TYPE 304 STAINLESS STEEL. SHOKTROL TO BE THE SIZE INDICATED ON THE DRAWINGS WITH THREADED CONNECTIONS - NOT SWEAT. WHERE POSSIBLE, SHOKTROLS SHALL BE LOCATED ABOVE LAY-IN CEILING. IF LOCATING THE SHOKTROL ABOVE A LAY-IN CEILING IS NOT POSSIBLE, AN ACCESS PANEL SHALL BE PROVIDED FOR ACCESS IN THE WALL.
- FIRE STOPPING SYSTEM SHALL BE PROVIDED AND INSTALLED THROUGH ALL FIRE RATED WALLS, CEILINGS, FLOORS, PARTITIONS OR CONSTRUCTION.
- FURNISH AND INSTALL ALL ROUGHING-IN CONNECTIONS FOR ALL EQUIPMENT FURNISHED BY OTHERS REQUIRING WATER, DRAINS, ETC. THE EQUIPMENT MANUFACTURER SHALL FURNISH TO THE CONTRACTOR, SHOP DRAWINGS SHOWING SIZE AND LOCATION OF SERVICE REQUIRED. ROUGHING-IN SHALL BE IN ACCORDANCE WITH THESE DRAWINGS.
- LAVATORY AND SINK STRAINERS AND TAILPIECES SHALL BE OFFSET MEETING ADA REQUIREMENTS WHERE REQUIRED TO ACCOMMODATE CASEWORK. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK DETAILS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- AFTER THE WATER SYSTEM HAS BEEN TESTED FOR LEAKS AND BEFORE THE SYSTEM HAS BEEN PLACED IN USE, INTRODUCE HTH SOLUTION, CHLORINE GAS, OR OTHER SIMILAR CHLORINATING AGENT IN SUFFICIENT QUANTITY TO PRODUCE A RESIDUAL OF 100 PPM THROUGHOUT THE ENTIRE SYSTEM AND ALLOW TO STAND THIS FILED FOR 24 HOURS. AFTER THE 24 HOURS PERIOD, FLUSH CLEAN WATER THROUGHOUT THE PIPING SYSTEM UNTIL ALL NOTICEABLE TRACE OF CHLORINE GAS HAS DISAPPEARED. VERIFY PROCEDURES AND TESTING REQUIREMENTS WITH THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

PLUMBING LEGEND



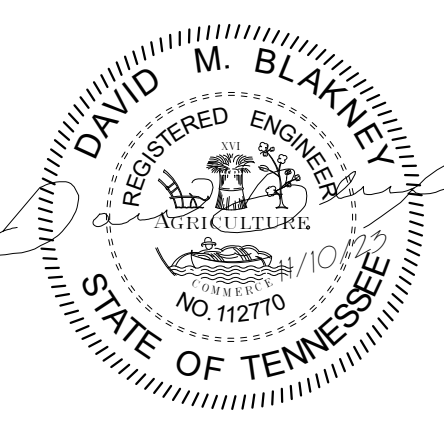
PLUMBING SYMBOLS

- V VENT
- VS VENT STACK
- VTR VENT THRU ROOF
- WS WASTE STACK
- CO CLEAN OUT
- FCO FLOOR CLEAN OUT
- WCO WALL CLEAN OUT
- WH WALL HYDRANT
- Z/3 Z/VS/3/WS



FLOOR PLAN - WASTE
1/8" = 1'-0"

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BCE@BCE.COM

A NEW PROJECT FOR:
**ANDERSON COUNTY SPORTS
TRAINING FACILITY**
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

SHEET DESCRIPTION
FLOOR PLAN - WASTE

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL ACCEPTANCE OF OCCUPANCY OR PERMITS COMPLETION FORM IS KEPT IN THIS OFFICE.

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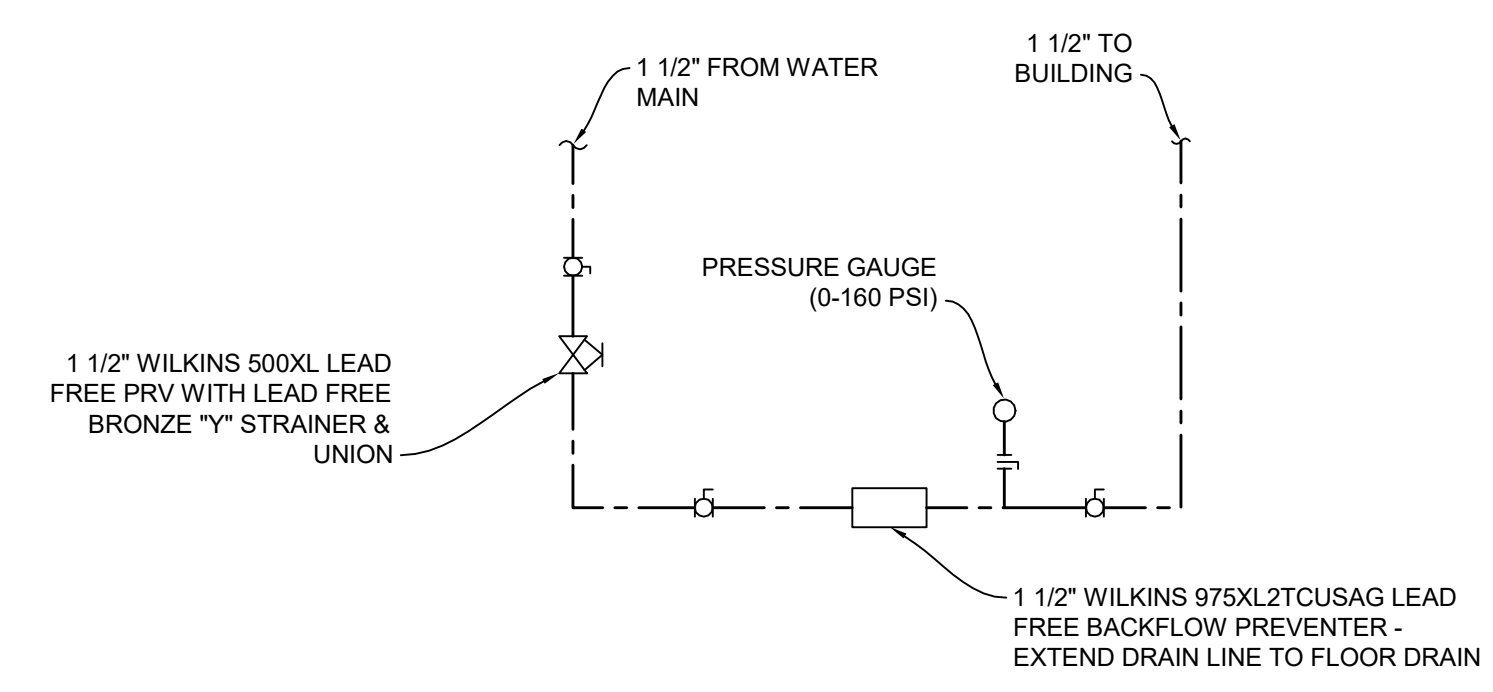
TFM# 03970-F

P101
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

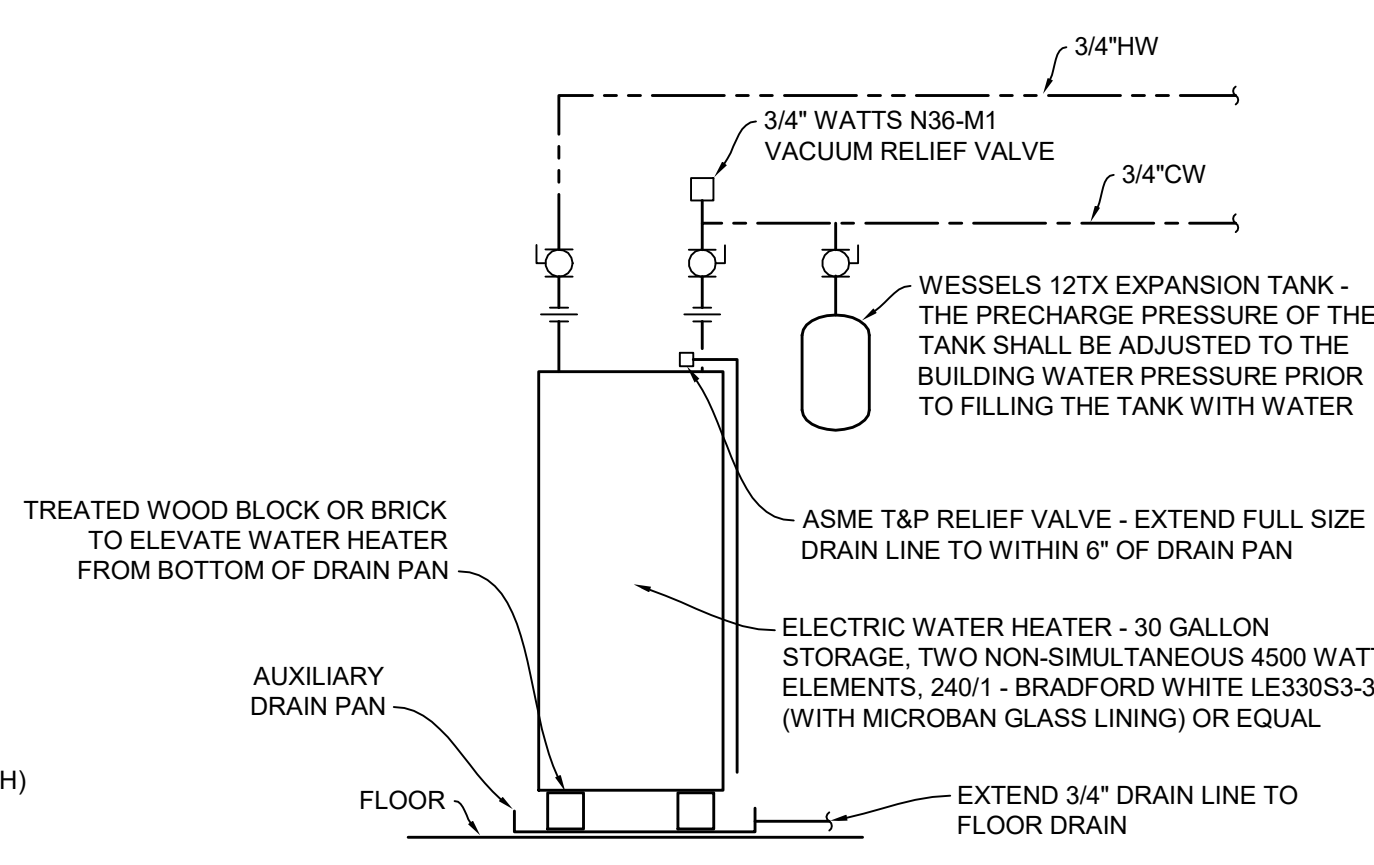
FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

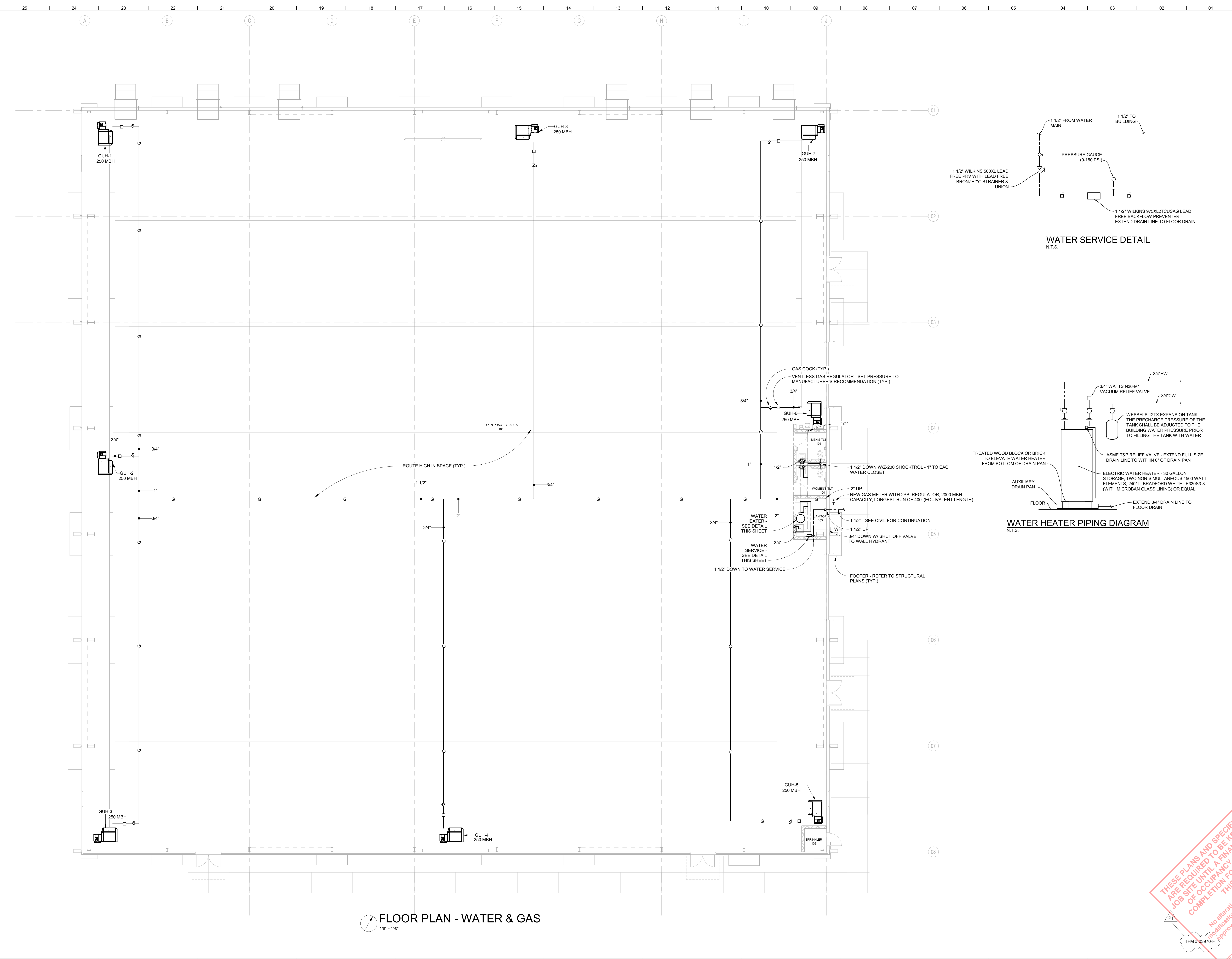
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WATER SERVICE DETAIL
 N.T.S.



WATER HEATER PIPING DIAGRAM
 N.T.S.



FLOOR PLAN - WATER & GAS
 1/8" = 1'-0"

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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TENNESSEE STATE FIRE MARSHAL'S OFFICE

SHEET DESCRIPTION
 P1 PERMITTING
 FLOOR PLAN - WATER & GAS

PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

P201

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HVAC SPECIFICATIONS

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- THE BUILDING IS ASSIGNED TO SEISMIC DESIGN CATEGORY C, RISK CATEGORY II WITH AN IMPORTANCE FACTOR OF 1.0. THEREFORE, THE MECHANICAL COMPONENTS ARE EXEMPTED FROM SEISMIC REVIEW. VERIFY WITH THE ARCHITECT.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
- OPERABLE VENTILATION AIR LOUVERS SHALL BE POTTORFF MODEL EXA-645 EXTRUDED ALUMINUM COMBINATION LOW LEAK CLASS 1A DRAINABLE LOUVER DAMPERS. THE LOUVER SHALL PASS 500 FPM FREE AREA VELOCITY WITH NOT MORE THAN 04 INCHES OF WATER GAUGE PRESSURE DROP AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR BOTH AIR PERFORMANCE AND WATER PENETRATION. DIAMOND MESH BIRD SCREEN SHALL BE INSTALLED ON THE INSIDE OF LOUVER. LOUVERS SHALL HAVE A KYNAR FINISH WITH COLOR AS SELECTED BY THE ARCHITECT.
- EXHAUST FANS SHALL BE GREENHECK, LOREN COOK, PENNBARRY OR APPROVED SUBSTITUTE, AND BE AS SCHEDULED ON THE DRAWINGS AND HAVE THE ACCESSORIES AS NOTED ON THE DRAWINGS. FAN MOTORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. THE UNITS SHALL BE FURNISHED WITH UNIT MOUNTED SAFETY DISCONNECT. THE UNITS SHALL BE UL LISTED AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT.
- ANY CUTS OR PENETRATIONS THROUGH THE EXISTING ROOF SHALL BE REPAIRED AND MADE WATERTIGHT IN A MANNER TO MAINTAIN THE EXISTING ROOF WARRANTY.
- WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
- SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

EXHAUST FAN (EF) SCHEDULE

MARK	CFM	EXT. STATIC (INCHES W.G.)	HP (WATTS)	RPM	MAX SONES	WEIGHT (LBS)	VOLTS/ PHASE	TYPE	GREENHECK MODEL
1 2 3 4 5 6	21600	0.28	3	388	19.8	275	208/3	WALL	SBE-2L54
5 6 7	70	0.35	(16)	941	1.4	20	115/1	CEILING	AP-A110

- NOTES:
- VERIFY VOLTAGE W/ ELECTRICAL DRAWINGS BEFORE ORDERING EQUIPMENT
 - EF-1,2,3,4,5,6 SHALL BE FURNISHED WITH MOTOR STARTER, THERMOSTAT W/ OVERRIDE SWITCH, BACKDRAFT DAMPER, WALL HOUSING W/ MOTOR GUARD, & 45 DEG. WEATHERHOOD W/ BIRDSCREEN
 - INTERNOCK EF-1,2,3,4,5,6 WITH CORRESPONDING INTAKE LOUVER - SEE FLOOR PLAN
 - EF 5,6,7 SHALL BE FURNISHED WITH EC MOTER, SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP W/ BIRDSCREEN
 - EF-5,6,7 SHALL ENERGIZED WITH THE LIGHTS IN THE ROOM IT SERVES

GAS-FIRED UNIT HEATER (GUH) SCHEDULE

MARK	INPUT (MBH)	OUTPUT (MBH)	FAN HP	CFM	FULL LOAD AMPS	MOCP	VOLTS/ PHASE	MFRGR & MODEL NO.	WEIGHT (LBS)
1 2 3 4 5 6 7 8	250.0	207.5	3/4	4270	12.7	30	115/1	REZNOR UB2 250	425

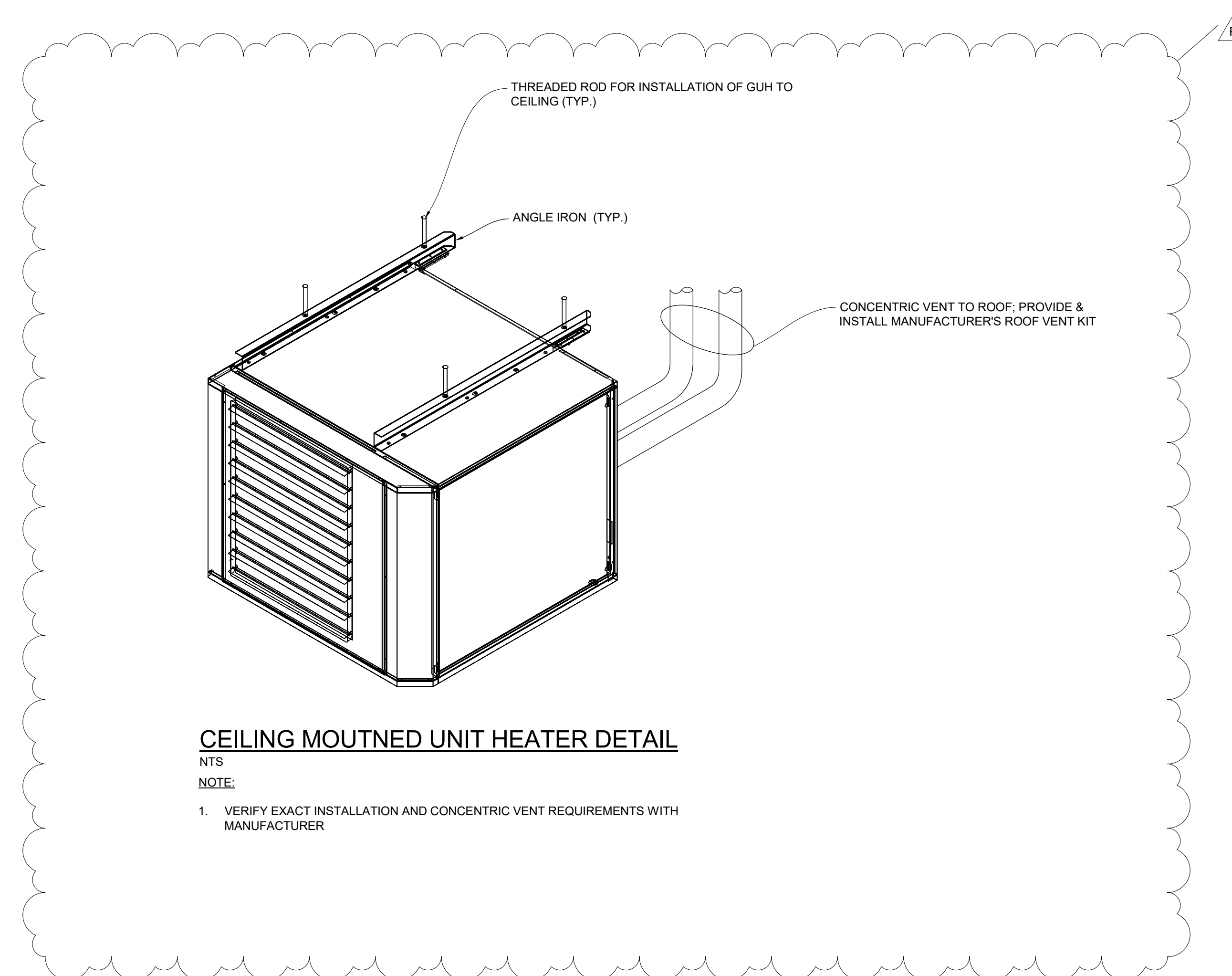
- NOTES:
- VERIFY VOLTAGE WITH ELECTRICAL DRAWINGS BEFORE ORDERING EQUIPMENT
 - PROVIDE HEATER WITH CONCENTRIC VENT BOX AND INSTALL AS PER MANUFACTURERS INSTRUCTIONS
 - PROVIDE WALL MOUNTED THERMOSTAT
 - HEATERS SHALL BE 2-STAGE

ELECTRIC WALL HEATER (EWH) SCHEDULE

MARK	WATTS	VOLTS/ PHASE	MFR MODEL
1 2 3 4	1500	208-1	MARKEL SERIES 3320

- NOTES:
- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
 - HEATER SHALL BE FURNISHED W/ DISCONNECT SWITCH & OVERHEAT PROTECTION
 - HEATER SHALL BE FURNISHED WITH INTEGRAL THERMOSTAT

DUCT LEGEND



CEILING MOUNTED UNIT HEATER DETAIL

- NOTES:
- VERIFY EXACT INSTALLATION AND CONCENTRIC VENT REQUIREMENTS WITH MANUFACTURER

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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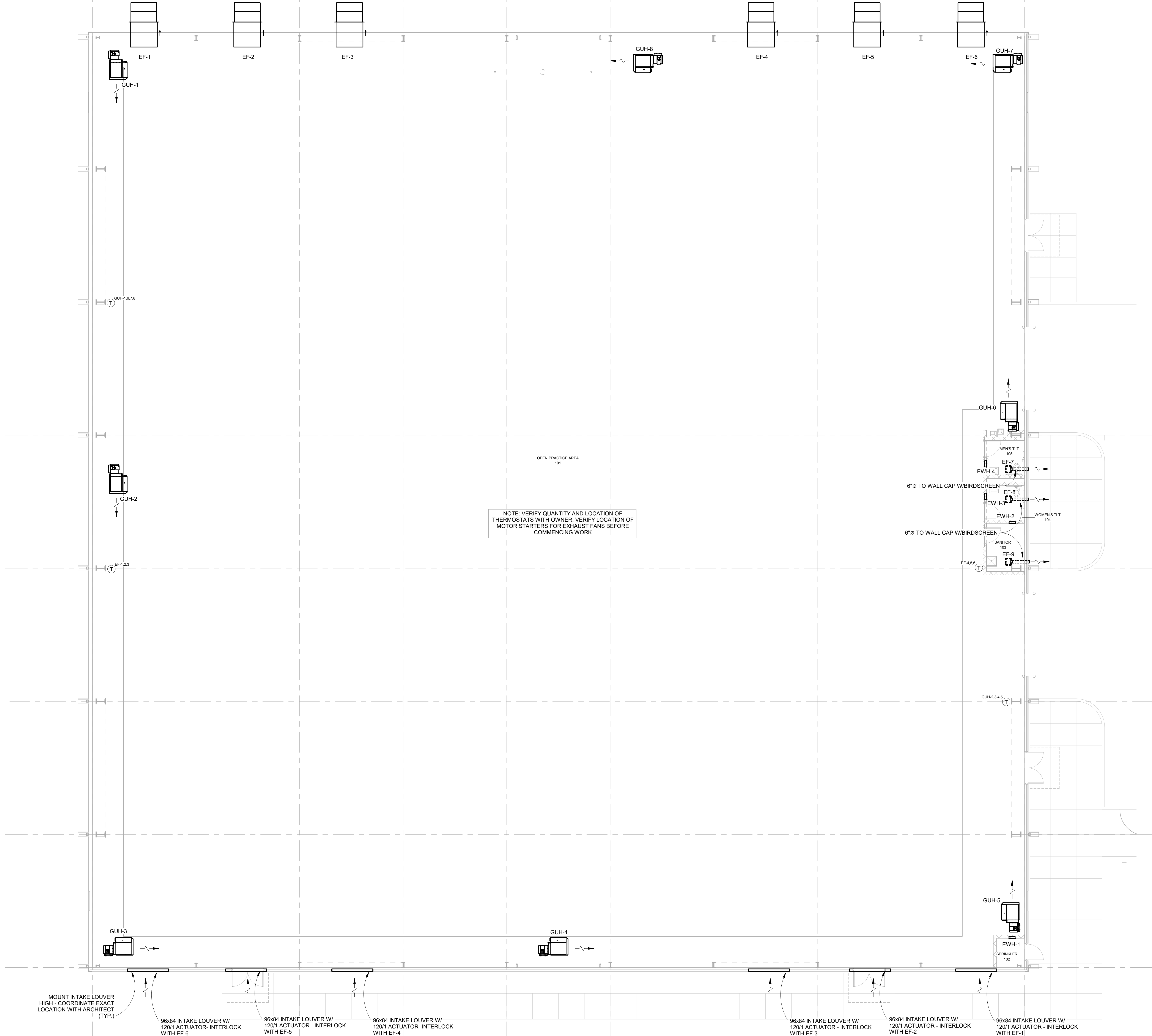
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TENNESSEE STATE FIRE MARSHAL'S OFFICE

M001

PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

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NOTE: VERIFY QUANTITY AND LOCATION OF THERMOSTATS WITH OWNER. VERIFY LOCATION OF MOTOR STARTERS FOR EXHAUST FANS BEFORE COMMENCING WORK.

MOUNT INTAKE LOUVER HIGH - COORDINATE EXACT LOCATION WITH ARCHITECT (TYP.)

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-6

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-5

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-4

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-3

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-2

96x84 INTAKE LOUVER W/ 120/1 ACTUATOR - INTERLOCK WITH EF-1

FLOOR PLAN - HVAC
1/8" = 1'-0"

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

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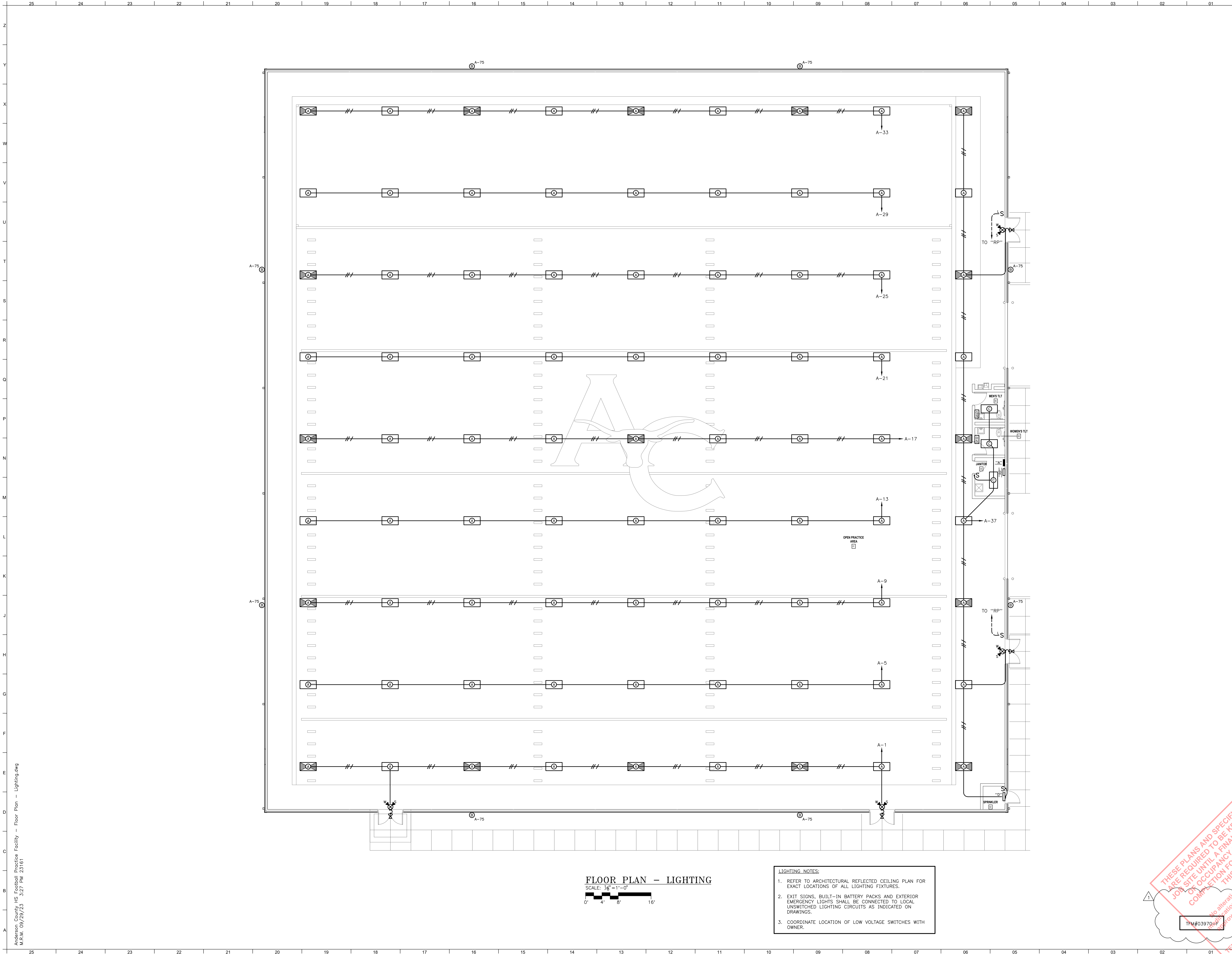
APPROVED BY FIRE MARSHAL'S OFFICE

TFM# 03970-F

M101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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Anderson County HS Football Practice Facility - Floor Plan - Lighting.dwg
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FLOOR PLAN - LIGHTING
 SCALE: 3/8" = 1'-0"

- LIGHTING NOTES:
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
 - EXIT SIGNS, BUILT-IN BATTERY PACKS AND EXTERIOR EMERGENCY LIGHTS SHALL BE CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUITS AS INDICATED ON DRAWINGS.
 - COORDINATE LOCATION OF LOW VOLTAGE SWITCHES WITH OWNER.

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STATE OF TENNESSEE
 FIRE MARSHAL'S OFFICE

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

SHEET DESCRIPTION:
 FLOOR PLAN - LIGHTING

PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

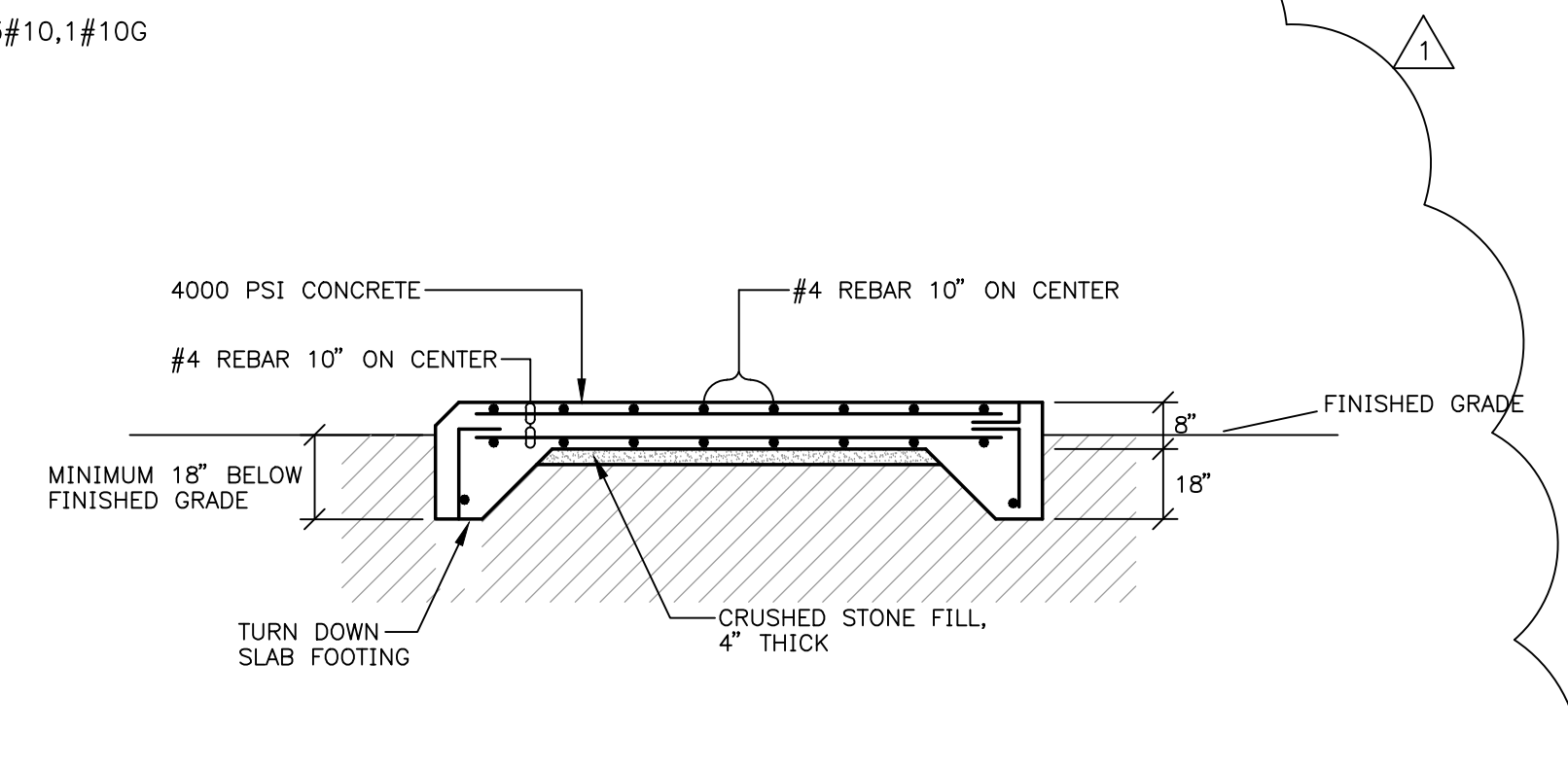
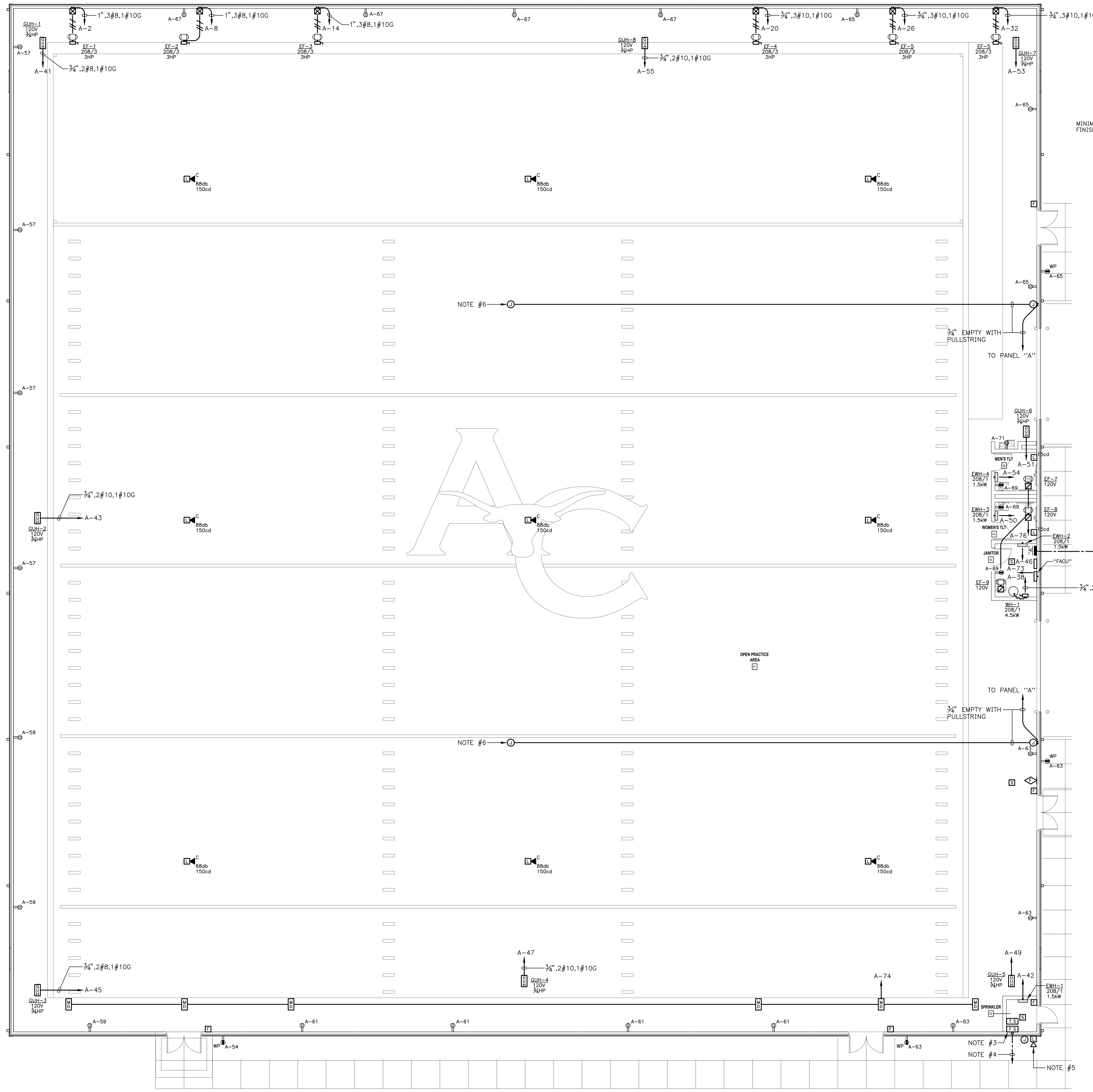
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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

FIELD SET
 TFM# 03970-F
 PROJECT# 2023-10-18-02

E101
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030



TRANSFORMER PAD DETAIL
NO SCALE

- COMMUNICATIONS/HVAC WIRING NOTES:**
1. PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH MECHANICAL/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL CALL ANY DISCREPANCIES BETWEEN ELECTRICAL DRAWINGS AND VOLTAGE INFORMATION PROVIDED BY MECHANICAL/PLUMBING CONTRACTOR TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH WORK.
 2. CONFIRM EXACT ROUGH-IN LOCATIONS FOR ALL HVAC/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT.
 3. CONNECT ALL SPRINKLER FLOW/TAMPER SWITCHES TO BUILDING FIRE ALARM SYSTEM. QUANTITIES SHOWN ARE DIAGRAMMATIC ONLY. CONFIRM EXACT QUANTITIES WITH SPRINKLER SYSTEM SUBCONTRACTOR.
 4. EXTEND 3/4" WITH FIRE ALARM WIRING TO WALL INDICATOR VALVE (WIV), POST INDICATOR VALVE, AND/OR BUTTERFLY VALVE AS NOTED ON FIRE PROTECTION DRAWINGS. CONNECT TAMPER SWITCHES AT WALL INDICATOR VALVE, POST INDICATOR VALVE, AND/OR BUTTERFLY VALVE TO BUILDING FIRE ALARM SYSTEM. REFER TO FIRE PROTECTION/SITE UTILITY DRAWINGS FOR EXACT LOCATION OF THESE VALVES.
 5. CONNECT SPRINKLER ALARM BELL ON EXTERIOR OF BUILDING. COORDINATE ROUGH-IN AND CONNECTION REQUIREMENTS WITH SPRINKLER SUBCONTRACTOR. PROVIDE "WEATHERPROOF" FIRE ALARM A/V DEVICE ON EXTERIOR OF BUILDING ADJACENT TO SPRINKLER BELL.
 6. PROVIDE ROUGH-IN FOR FUTURE INSTALLATION OF HIGH VOLUME LOW SPEED FAN. COORDINATE LOCATION WITH OWNER.
 7. CONTROL EF-7 AND EF-8 WITH DUAL CIRCUIT OCCUPANCY/VACANCY SENSOR SO THAT FAN RUNS WHEN ROOM LIGHTS ARE ON.
 8. PROPOSED LOCATION OF NEW 75KVA PADMOUNTED TRANSFORMER, 208Y/120V SECONDARY. PROVIDE CONCRETE PAD PER DETAIL. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH OWNER.
 9. PROVIDE UNDERGROUND SECONDARY WIRING FROM NEW PADMOUNTED TRANSFORMER TO "A". SEE FEEDER DIAGRAM FOR REQUIREMENTS.
 10. PROVIDE 2-4" CONDUITS FROM RISER POLE WHERE DIRECTED TO NEW PADMOUNTED TRANSFORMER FOR PRIMARY LINE INSTALLATION. ONE CONDUIT SHALL CONTAIN 3#3615KV, 1#2 AND ONE SHALL BE EMPTY WITH PULL ROPE. INSTALL MINIMUM 48" BELOW FINISHED GRADE WITH 36" RADIUS SWEEP ELBOWS.

FLOOR PLAN - ELECTRICAL
SCALE: 3/8"=1'-0"
0' 4' 8' 16'



Vreeland Engineers, Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN 37939
865-637-4451
1-800-362-9789
vreelandengineers.com

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

FIELD SET
TFM# 03970-F PROJECT# 2023-10-18-02

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON JOB SITE UNTIL A FINAL ACCEPTANCE OF OCCUPANCY FOR THIS PROJECT COMPLETION FOR THE PROJECT. No alterations, deletions, or additions of any kind are allowed to this set of plans or specifications without written permission of this office.

E102
FLOOR PLAN - ELECTRICAL

NOTES

1. SURVEYOR'S LIABILITY FOR THE DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITIES WITHOUT AN EXPRESSED RE-CERTIFICATION BY WHOSE SIGNATURE APPEARS UPON THE SURVEY.
2. PARCELS NUMBERS SHOWN AS THUS (00) REFER TO TAX MAP 43, ANDERSON COUNTY, TENNESSEE.
3. ALL DISTANCES WERE MEASURED WITH E.D.M. EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.
- 3.1. FOR BOUNDARY AND TOPOGRAPHIC ASPECTS OF THIS SURVEY, RTK GNSS POSITIONAL DATA WAS OBSERVED ON/BETWEEN AUGUST 24, 2023 UTILIZING TRIMBLE R12 & R12i DUAL FREQUENCY RECEIVERS. THE GRID COORDINATES OF THE FIXED STATION(S) WERE DERIVED USING A VRS NETWORK OF CORS STATIONS REFERENCED TO NAD83(2011), GEOID 12B.
4. THE PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD PLAIN AND IS DETERMINED TO BE IN ZONE "X" AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM PANEL NUMBER 47001C0136G, DATED 05/04/2009.
5. THIS SURVEYOR WAS NOT PROVIDED WITH A TITLE COMMITMENT, THEREFORE THE PROPERTY IS SUBJECT TO THE FINDINGS OF A DETAILED TITLE SEARCH.
6. PRIOR TO ANY CONSTRUCTION, EXCAVATION OR ANY DISTURBANCE OF THE EXISTING GROUND ELEVATION, THE OWNER AND / OR CONTRACTOR SHOULD ASSUME RESPONSIBILITY OF CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATION OF UNDERGROUND GAS LINES, TELEPHONE LINES, ELECTRIC CABLES, WATER LINES, ETC. TO AVOID ANY HAZARD OR CONFLICT. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR EXCAVATION TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. DIAL 811 FOR A ONE CALL CENTER.
7. UTILITIES SHOWN WERE TAKEN FROM FIELD LOCATIONS THAT WERE APPARENT AND COPIED FROM APPROPRIATE GOVERNING AGENCIES MAPS AND ARE APPROXIMATE AT BEST. THERE MAY BE UTILITIES, THE EXISTENCE OF WHICH IS UNKNOWN TO THE SURVEYOR.
8. TOPOGRAPHIC INFORMATION WAS DERIVED BY RANDOM SHOTS PER FIELD SURVEY; CONTOUR INTERVAL IS TWO (2) FOOT. DATUM BASED ON NAVD 88.
9. ALL DEED & PLAT REFERENCES ARE MADE TO THE REGISTER'S OFFICE OF ANDERSON COUNTY, TENNESSEE (ROAC).
10. SURVEY FIELD DATA COLLECTED ON AUGUST 24, 2023.
11. SUBJECT PROPERTY IS CURRENTLY ZONED "A-2"; RURAL RESIDENTIAL DISTRICT. FOR ACCURATE INFORMATION CONCERNING ZONING REQUIREMENTS & RESTRICTIONS CONTACT ANDERSON COUNTY PLANNING COMMISSION AND BOARD OF ZONING APPEALS: 865-457-6244.

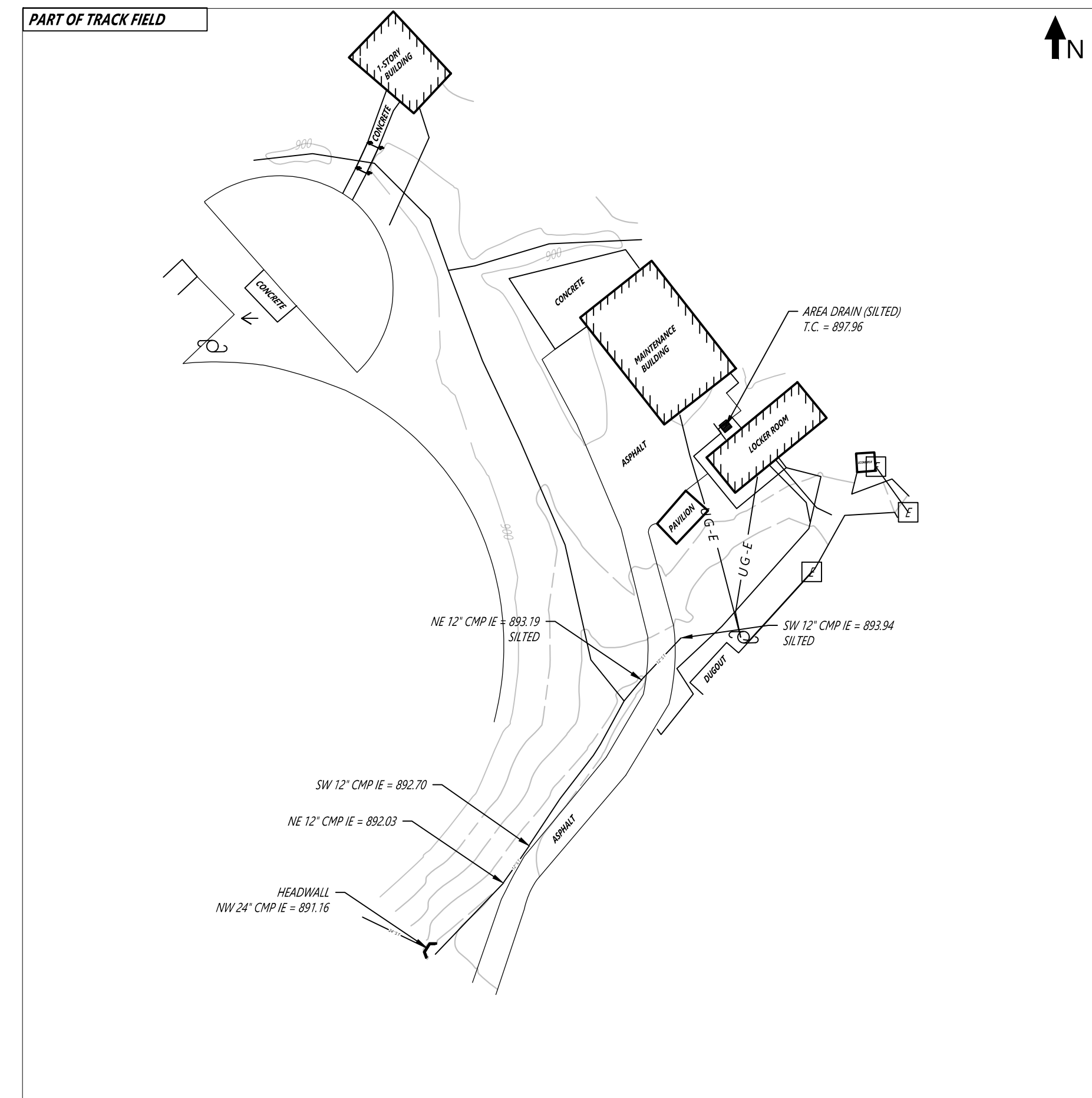
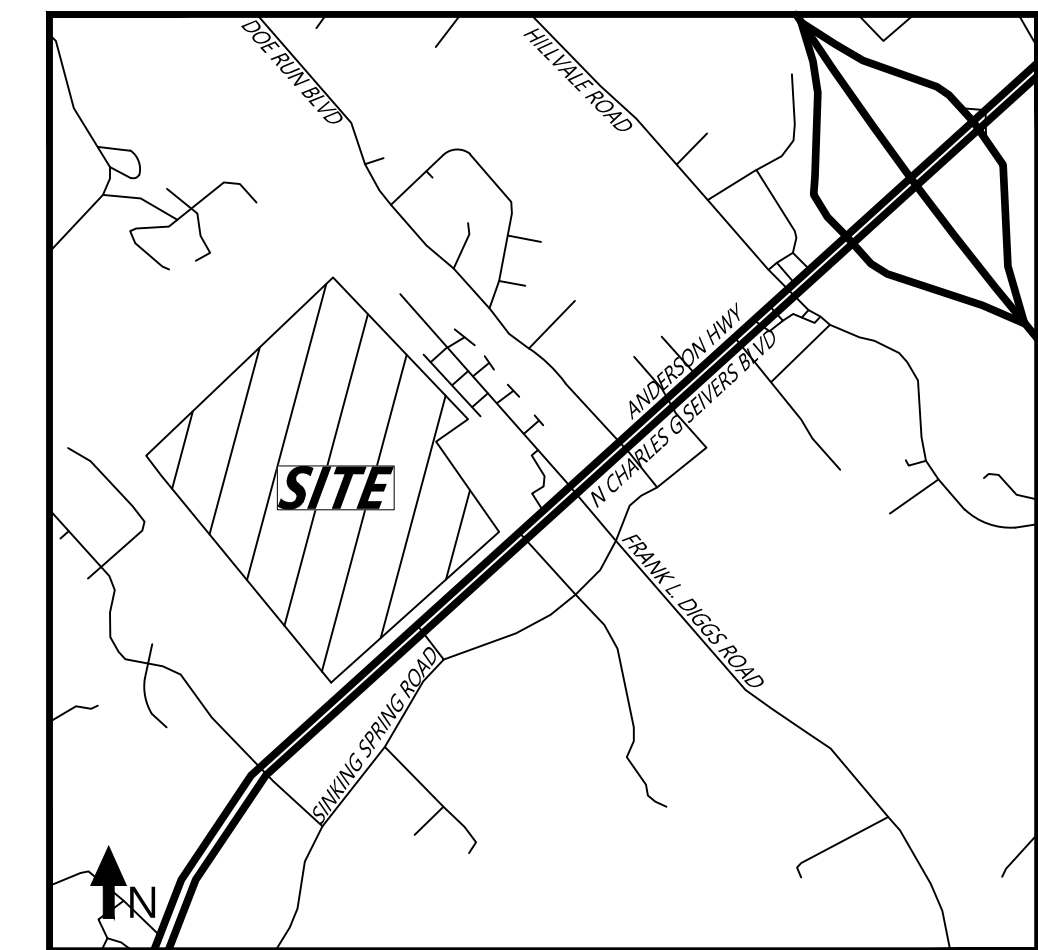
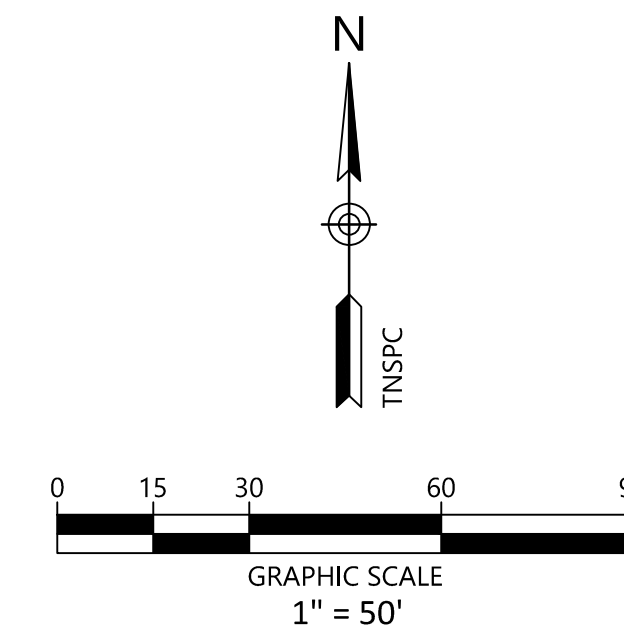
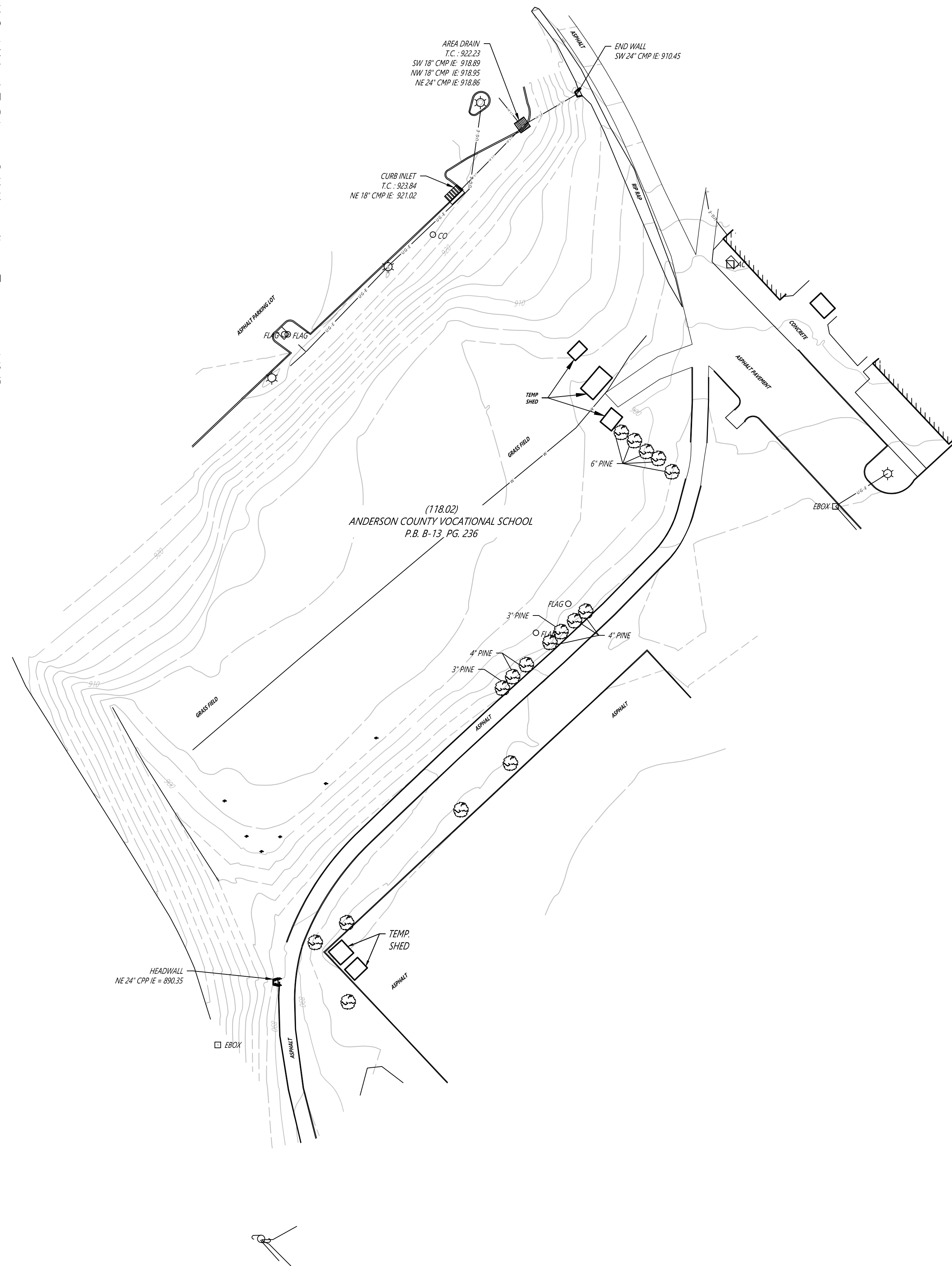
SITE DATA

PROPERTY LOCATED ON ANDERSON COUNTY TAX MAP 43, PARCEL 118.02

CITY: CLINTON
 COUNTY: ANDERSON
 STATE: TENNESSEE
 DISTRICT: 1
 SITE ADDRESS: 130 MAVERICK CIRCLE
 CLINTON, TENNESSEE
 OWNER: ANDERSON COUNTY VOCATIONAL SCHOOL
 RT 1
 CLINTON, TN 37716

LEGEND

PARCEL NO.	(xx)
UNDERGROUND ELECTRIC	U G - E
CONTOUR LINE	-500-
WATER LINE	W
ELECTRIC METER	EM
UTILITY POLE W/ LIGHT	UL
CURB INLET	CI
CATCH BASIN	CB
WATER METER	WM
WATER VALVE	WV
SANITARY CLEANOUT	CO



SURVEYOR'S CERTIFICATE

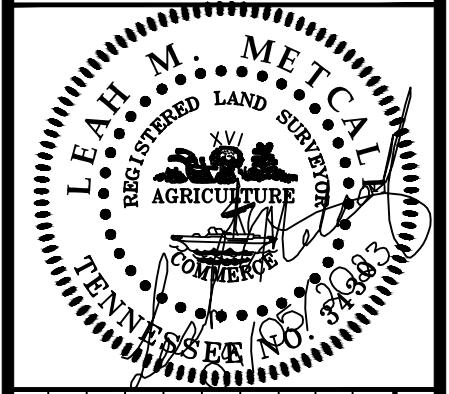
I hereby certify that to the best of my knowledge and belief the hereon shown Topographic Survey represents a Category "IV" survey and as shown hereon and that the survey has been performed to the minimum standards for Land Surveying in the State of Tennessee.

By: *Leah M. Metcalf* Date: 09/05/2023
 LEAH M. METCALF TN Registered Surveyor No. 3430



658 GRASSMERE PARK DRIVE, STE 100
 NASHVILLE, TN 37211
 (615) 385-4144

DESIGN INNOVATION ARCHITECTS, INC
 402 S GAY ST. SUITE 201
 KNOXVILLE, TN 37902



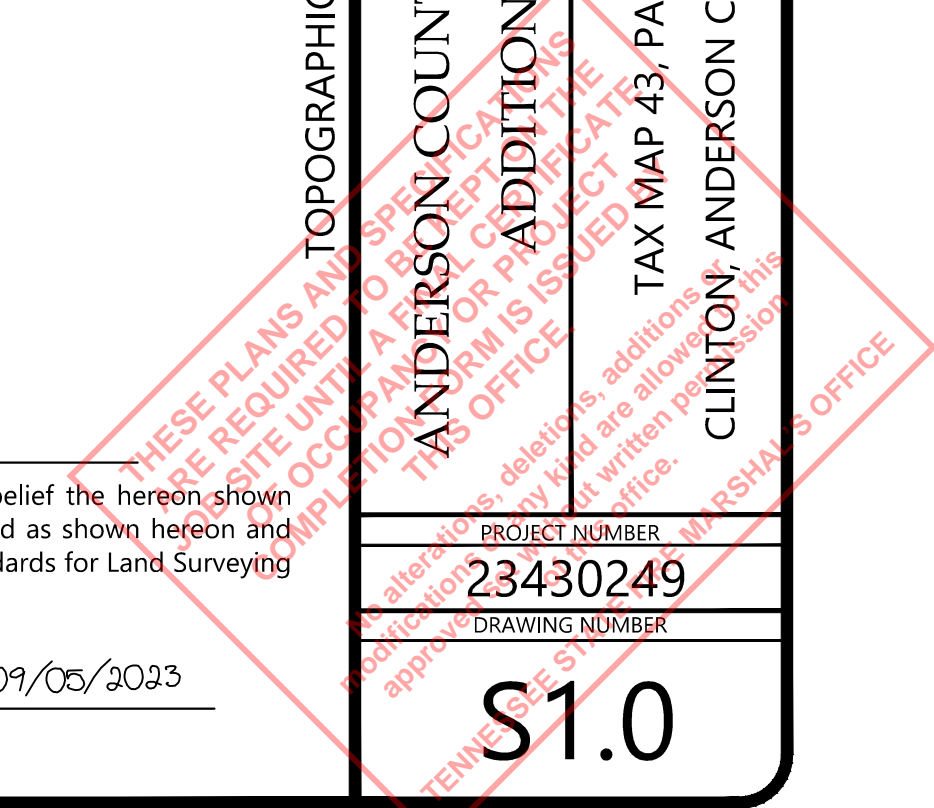
NO.	DATE	DESCRIPTION	BY	CHK	APV
1	09/05/2023	ORIGINAL ISSUE	JPF	LMM	ABV

TOPOGRAPHIC SURVEY

ANDERSON COUNTY HIGH SCHOOL
 ADDITIONAL TOPO
 TAX MAP 43, PARCEL 118.02
 CLINTON, ANDERSON COUNTY, TENNESSEE

PROJECT NUMBER: 23430249
 DRAWING NUMBER: S1.0

FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02



DRAWING PATH: T:\Knoxville-1430\Project\03970-F\Anderson County Schools\Anderson County Schools\Football_Clinic\TNS_Civil_Survey\CAD\Survey\23430249 Anderson County HS_Additonal Topo.dwg



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Walkway < 10 feet wide	720 ft of	0.7	Yes	504
Total Tradable Watts (a) =				504
Total Allowed Watts =				504
Total Allowed Supplemental Watts (b) =				600

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Walkway < 10 feet wide (720 ft of walkway length): Tradable Wattage				
LED: B: wall pack: LED Roadway-Parking Unit 130W:	1	8	120	960
Total Tradable Proposed Watts =				960

Exterior Lighting PASSES: Design 13% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer

Name - Title

Signature

11-10-23

Date



Project Title: ACHS Sports Training Facility

Data filename: _____

Report date: 11/10/23



FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-School/university	32400	0.99	32076
Total Allowed Watts =			32076

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-School/university				
LED: A: high bay: LED Other Fixture Unit 125W:	1	81	309	25029
LED: C: 2x4: LED Panel 36W:	1	3	35	105
LED: D: 2' strip: LED Linear 22W:	1	1	24	24
Total Proposed Watts =				25158

Interior Lighting PASSES: Design 22% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer
 Name - Title

Signature

11-10-23
 Date



Project Title: ACHS Sports Training Facility
 Data filename:

Report date: 11/10/23



FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02



COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4a
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Mechanical Systems List

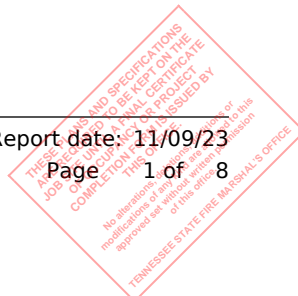
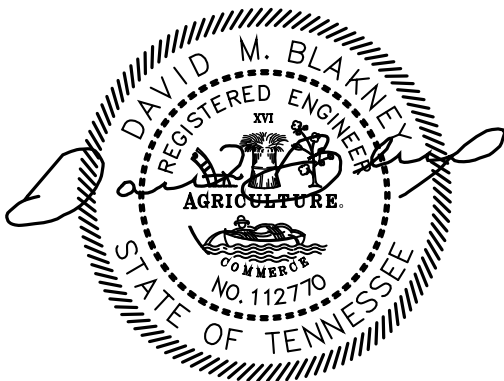
Quantity System Type & Description

- 8 GUH (Unknown w/ PerimeterSystem):
 Heating: 1 each - Unit Heater, Gas, Capacity = 250 kBtu/h
 Proposed Efficiency = 83.00% Ec, Required Efficiency: 80.00 % Ec
 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 4270 CFM, 0.8 motor nameplate hp
- 1 Water Heater:
 Electric Storage Water Heater, Capacity: 30 gallons
 No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Blakney - President _____ Signature *David Blakney* _____ Date 11-09-23



FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02

Tyler Goza

From: Daniel Adams <dadams@clintontn.net>
Sent: Wednesday, November 22, 2023 1:08 PM
To: Tyler Goza
Subject: RE: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

I have reviewed the plan and although there is not a fire access, I am okay with the plan as submitted based on the access from the parking lots and driveways surrounding it. Once the process has moved further along, I would like to meet on site to discuss some signage or fire lanes to ensure our FDC stays unobstructed. Other than that, I am good with the drawing as submitted.

Daniel

From: Tyler Goza <tgoza@dia-arch.com>
Sent: Wednesday, November 22, 2023 10:55 AM
To: Daniel Adams <dadams@clintontn.net>
Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; Will Robinson <will@wrcivil.com>
Subject: RE: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

Good morning Daniel,

Wanted to check back on your site plans review for the Anderson Co Sports Training Facility on ACHS campus? Let me know your thoughts and if you would like to meet on site to review Fire Dept access.

This is the last piece of the puzzle in order to get our permit from the State Fire Marshal's Office.

Thank you.

Sincerely,

Tyler Goza, AIA, CSI

Project Architect
Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540
402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com

From: Tyler Goza
Sent: Monday, November 13, 2023 8:31 AM
To: 'Daniel Adams' <dadams@clintontn.net>
Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; 'Will Robinson' <will@wrcivil.com>
Subject: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

Daniel, were you able to review the site plans for the Anderson Co Sports Training Facility on ACHS campus? Let me know your thoughts and if you would like to meet on site to review Fire Dept access. Thank you.

Sincerely,

Tyler Goza, AIA, CSI

Project Architect
Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540
402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com



From: Tyler Goza

Sent: Wednesday, November 8, 2023 2:28 PM

To: Daniel Adams <dadams@clintontn.net>

Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; Will Robinson <will@wrcivil.com>

Subject: 23030 I01 I02 2023-11-08 Clinton Fire Dept.

Daniel, thanks for the call and your help on this project for Anderson County High School.

We're working on a new Sports Training Facility for ACHS on the school's campus (will be between the high school and CRCS, where the practice football field is now). We've submitted the drawings for permit review with the State Fire Marshal's Office. Two of their comments require coordination with the fire chief of the responding fire department – see below. I've attached the civil and architectural site plan for reference.

Please review the layout and site plans attached. Would like to get your input and ultimately approval so we can get these two comments resolved. Once we receive our stamped permit set from the State, we will also submit the plans to the Anderson Co Building Codes Dept.

Our reviewer at the SFMO is Jason D. Thompson Jason.D.Thompson2@tn.gov

Site Plans

WRA → 10. The fire apparatus road must extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building unless otherwise approved by the fire chief of the responding fire department. IFC 503.1.1 ASSUMING WE NEED TO EITHER VERIFY WHAT WE HAVE SHOWN WITH CITY OF CLINTON AND PROVIDE SOME VERIFICATION THAT WHAT WE HAVE IS ACCEPTABLE - WILL, LET ME KNOW IF YOU NEED ANYTHING FROM ME

WRA → 11. For new buildings or existing buildings with new or relocated fire department connections, the location of fire department connections shall be approved by the fire chief. IBC 912.2 ASSUMING WE WANT OUR FDC NEAR THE SPRINKLER ROOM; WILL PLEASE CONFIRM / VERIFY WITH FIRE DEPT.

The full set of documents that are currently under review can be downloaded [HERE](#)

Sincerely,

Tyler Goza, AIA, CSI

Project Architect

Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540

402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com



Excellence through service and design

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FIELD SET TFM# 03970-F PROJECT# 2023-10-18-02