Est. 1867

SHEET INDEX

SHEET #	SHEET NAME	SHEET ISSUE DATE	CURRENT REV. NO.	REV. DESCRIPTION	REV. ISSUED BY	CURRENT REV. DATE
G000	COVER	2023-10-17	3	BIDDER QUESTIONS	BIDDING	2024-10-04
G099	PROJECT CODE REQUIREMENTS	2023-10-17	2	BIDDER QUESTIONS	BIDDING	2024-10-01
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	0	BIDDER QUESTIONS	BIDDING	2024-09-24
S102	SECTIONS AND DETAILS	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
AS101	ARCHITECTURAL SITE PLAN AND DETAILS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A101	FIRST FLOOR PLAN	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A102	ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A111	ROOF PLAN & DETAILS	2023-10-17	1	BIDDER QUESTIONS	BIDDING	2024-10-01
A121	FIRST FLOOR RCP	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A201	EXTERIOR ELEVATIONS	2024-09-23	1	BIDDER QUESTIONS	BIDDING	2024-10-01
A301	BUILDING SECTIONS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A311	WALL SECTIONS	2023-10-17	2	BIDDER QUESTIONS	BIDDING	2024-10-01
A321	PLAN AND SECTION DETAILS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A500	OPENING SCHEDULES AND DETAILS	2023-10-17	1	BIDDER QUESTIONS	BIDDING	2024-10-01
A501	OVERHEAD DOOR SPEC	2024-10-01	3	BIDDER QUESTIONS	BIDDING	2024-10-04
A600	3D DRAWINGS	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
A700	INTERIOR FINISH SCHEDULE	2023-10-17	P1	PERMIT REV.	PERMITTING	2023-11-10
FP001	PRELIMINARY HYDRALIC 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	0	BIDDER QUESTIONS	BIDDING	2024-09-24
E201	LEGENDS AND SCHEDULES	2023-10-17	0	BIDDER QUESTIONS	BIDDING	2024-09-24
S1.0	RESOURCE	2023-09-05	P2	PERMIT REV.	PERMITTING	2023-12-08

GENERAL PROJECT NOTES

REFER TO BID DOCUMENTS INCLUDING BID FORM (004100) AND ALTERNATES (012300) FOR REQUIREMENTS OF:
ALTERNATE NO. 01: REMOVAL OF PRE-ENGINEERED METAL BUILDING FROM BASE BID.

A GENERAL NOTES APPLY TO ALL SHEETS

B ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS WHICH ARE NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT

C EACH TRADE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF THE GENERAL NOTES INCLUDED THROUGHOUT THE CONTRACT DOCUMENTS AND THE APPLICABLE BUILDING CODES

D THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS, LABOR, EQUIPMENT, MATERIALS AND ALL OTHER REQUIRED SUPPLIES AND SERVICES TO COMPLETE THE WORK IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL OPERATIONS ARE CARRIED OUT IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, STATUTES AND REGULATIONS CONCERNING, BUT NOT LIMITED TO, THE PROTECTION OF LIFE AND PROPERTY.

E THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS

F GENERAL CONTRACTOR SHALL VISIT THE SITE AND REVIEW ANY EXISTING STRUCTURES, IF APPLICABLE, AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION.

G GENERAL CONTRACTOR SHALL COORDINATE AND MANAGE ALL TRADES AND ASPECTS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS.

H ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES

I GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BIDDING AND BEGINNING THE WORK.

J GENERAL CONTRACTOR SHALL RETAIN ONE SET OF PLANS IN GOOD CONDITION TO NOTE AND DOCUMENT ALL CHANGES DURING CONSTRUCTION. THIS SET OF PLANS SHALL BE RETURNED TO THE OWNER AS PART OF THE REQUIRED CLOSE-OUT PACKAGE.

K GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, PLUMBING, SIGNAGE (WHERE APPLICABLE), MECHANICAL, & ELECTRICAL SYSTEMS, ETC. PRIOR TO INSTALLATION OF THOSE SYSTEMS UNLESS NOTED OTHERWISE.

L IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE GENERAL CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL INCLUDE BUT NOT BE LIMITED TO MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND SAFETY REQUIREMENTS.

M PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. APPLICATION AND PAYMENT FOR ALL NECESSARY LICENSES AND PERMITS REQUIRED FOR THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND CONTRACT DOCUMENTS APPROVED BY ALL PERMITTING AUTHORITIES.

N FIREPROOFING, SEALANTS, & DAMPERS MAY NOT BE SHOWN ON SOME DRAWINGS FOR CLARITY. HOWEVER, ALL ASSEMBLIES MUST BE INSTALLED IN ACCORDANCE WITH THE LISTED LIFE SAFETY DESIGN. ALL ASSEMBLIES SHALL BE INSTALLED & COORDINATED WITH ALL DISCIPLINES AS OUTLINED IN THE APPLICABLE U.L. (OR EQUIVALENT) DETAIL AS CALLED OUT IN THE LIFE SAFETY DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE OWNER'S REPRESENTATIVE BEFORE CONTINUING CONSTRUCTION.

O THESE DRAWINGS ARE ONE PORTION OF THE CONTRACT DOCUMENTS. AS SUCH, THEY ARE NOT TO BE DIVIDED INTO PARTIAL SETS AND DISTRIBUTED TO DIFFERENT PARTIES/TRADES WITHOUT THE REMAINING PORTIONS OF THE CONTRACT DOCUMENTS. IF PARTIAL SETS ARE DISTRIBUTED BY THE GENERAL CONTRACTOR, THEN THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION AND SHALL PAY FOR ANY ADDITIONAL ASSOCIATED COSTS RELATED TO THE COORDINATION OR ANY REMEDIATION WORK ARISING FROM THE PARTIAL DISTRIBUTION OF THE CONTRACT DOCUMENTS. THIS PAYMENT SHALL OCCUR AT NO ADDITIONAL COSTS TO THE OWNER, ARCHITECT OR ANY OF THEIR EMPLOYEES OR CONSULTANTS.

P DETAILS ARE INTENDED TO SHOW DESIGN INTENT OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.

Q DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CAN NOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK

R UNLESS SHOWN OR NOTED OTHERWISE, USE CONSTRUCTION DETAILS AND PRACTICES COMMON TO THE STANDARDS OF THE TRADES.

S THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORT FOR ALL ITEMS REQUIRING THE SAME. SUCH ELEMENTS INCLUDE BUT ARE NOT LIMITED TO MILLWORK, RESTROOM ACCESSORIES, WALL STOPS, AND RAILINGS.

T ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE OF BEST PRACTICE OF EACH TRADE.

U CONTRACTOR SHALL VERIFY AND MAINTAIN ALL THE REQUIRED CLEARANCES AROUND INSTALLED EQUIPMENT.

V EACH DISCIPLINE (MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.) SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ACCESS PANELS OR DOORS FOR THEIR SCOPE OF WORK. ACCESS DOORS AND PANELS SHALL BE OF APPROPRIATE SIZE AND CONSTRUCTION OF METAL WITH GYPSUM BOARD PANEL INSERTS FOR THE DOOR FACE. ACCESS PANELS SHALL BE PRIMED PAINTED TO MATCH ADJACENT SURFACE. ACCESS DOORS AND PANELS SHALL COMPLY WITH FIRE RATINGS OR SMOKE PARTITION REQUIREMENTS AS NOTED IN THE DRAWING.

W SUBSTITUTION OF SPECIFIED MATERIALS WILL ONLY BE ACCEPTED DURING THE BID PHASE AND MUST BE SUBMITTED TO THE ARCHITECT AS AN EQUAL PRODUCT FOR APPROVAL PER CONDITIONS OF THE CONTRACT DOCUMENTS

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PROJECT SITE

A04 PROJECT SITE MAP / LOCATION

NOT TO SCALE

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ARCHITECTS + INTERIORS + PLANNING

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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
P2	PERMITTING	2023-12-08
0	BIDDING	2024-09-24
1	BIDDING	2024-10-01
2	BIDDING	2024-10-01
3	BIDDING	2024-10-04

SHEET DESCRIPTION

COVER

G000

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC):

IECC CHAPTER 1: SCOPE & ADMINISTRATION

*NOTE: THIS PROJECT IS SUBJECT TO ALL APPLICABLE SECTIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, UNLESS SPECIFICALLY NOTED OTHERWISE, INCLUDING, BUT NOT LIMITED TO THOSE LISTED BELOW. FOR THE PURPOSES OF THIS REVIEW, AN ABBREVIATED LIST OF REQUIREMENTS HAS BEEN REFERENCED BELOW.

IECC CHAPTER 2: DEFINITIONS

IECC CHAPTER 3: GENERAL REQUIREMENTS

CLIMATE ZONE (SECTION C301):	4A - ANDERSON COUNTY, TN
DESIGN CONDITIONS (SECTION C302.1):	INT. DESIGN TEMP. USED FOR HEATING & COOLING LOAD CALCULATIONS SHALL BE A MAX. OF 72°F FOR HEAT - MIN. OF 75°F FOR COOLING.

IECC CHAPTER 4: COMMERCIAL ENERGY EFFICIENCY

APPLICATION (SECTION C401.2):		
		ASHE / ASHRAE / IESNA 90.1 COMPLIANCE APPROACH
	X	PRESCRIPTIVE COMPLIANCE APPROACH: §C402 THROUGH §C405, §C408, & §C406 / §C406.1.1 AS APPLICABLE TO COMMERCIAL BUILDINGS / TENANT SPACES
		PERFORMANCE COMPLIANCE APPROACH: §C402.5, §C403.2, §C403.3 THROUGH §C403.3.2, §C403.4 THROUGH §C403.4.2.3, §C403.5.5, §C403.7, §C403.8.1 THROUGH §C403.8.4, §C403.10.1 THROUGH §C403.10.3, §C403.11, §C403.12, §C404, §C405, §C407, & §C408 WHERE BUILDING ENERGY COSTS ARE REQUIRED TO BE EQUAL TO OR LESS THAN 85 PERCENT OF THE STANDARD REFERENCE DESIGN BUILDING.

BUILDING ENVELOPE REQUIREMENTS (SECTION C402):	REQUIRED (R-VALUE)	THERMAL VALUE REQUIRED (U-FACTOR)	PROVIDED
ROOFS:			
INSULATION ENTIRELY ABOVE ROOF DECK			
METAL BUILDINGS	R-19 + R-11 LS	U-0.035	*R-19 + R-11 LS
ATTIC & OTHER			
WALLS, ABOVE GRADE:			
MASS			
METAL BUILDING	R-13 + R-13ci	U-0.052	R-13 + R-13ci
METAL FRAMED			
WOOD FRAMED & OTHER			
WALLS, BELOW GRADE:			
BELOW-GRADE WALL			
FLOORS:			
MASS			
JOIST / FRAMING			
SLAB-ON-GRADE FLOORS:			
UNHEATED SLABS	R-10 FOR 24" BELOW	F-0.54 FOR 24" BELOW	R-10 FOR 24" BELOW
HEATED SLABS			
OPAQUE DOORS:			
NON-SWINGING DOOR	R-4.75		
SWINGING DOOR		U-0.61	
GARAGE DOOR (<14% GLAZING)		U-0.31	

* C402.1.1 LOW-ENERGY BUILDINGS. THE FOLLOWING LOW-ENERGY BUILDINGS, OR PORTIONS THEROF SEPARATED FROM THE REMAINDER OF THE BUILDING BY BUILDING THERMAL ENVELOPE ASSEMBLIES COMPLYING WITH THIS SECTION, SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION C402.

1. THOSE WITH A PEAK DESIGN RATE OF ENERGY USAGE LESS THAN 3.4 Btu/h x ft² (10.7 W/m²) OR 1.0 WATT PER SQUARE FOOT (10.7 W/m²) OF FLOOR AREA FOR SPACE CONDITIONING PURPOSES.
2. THOSE THAT DO NOT CONTAIN CONDITIONED SPACE.
3. GREENHOUSES.

ROOF SOLAR REFLECTANCE & THERMAL EMITTANCE:		

BUILDING ENVELOPE REQUIREMENTS (CONT.):	REQUIRED (SHGC) E / S / W	NORTH	REQUIRED (U-FACTOR)	PROVIDED SHGC	U-FACTOR	MAXIMUM PERCENT OF GROSS, ABOVE-GRADE WALL / ROOF AREA
VERTICAL FENESTRATION:						
FIXED FENESTRATION			U-0.38	<X.XX>	<X.XX>	30% NOT INCLUDING OPAQUE DOORS & SPANDREL PANELS
OPERABLE FENESTRATION			U-0.45	<X.XX>	<X.XX>	
ENTRANCE DOORS			U-0.77	<X.XX>	<X.XX>	
SKYLIGHTS:						

AIR LEAKAGE REQUIREMENTS:		
(§C402.5.1 THROUGH §C402.5.7)	X	THERMAL ENVELOPE COMPLIANCE BY TESTING IN ACCORDANCE WITH ASTM E 779 OR EQUIVALENT METHOD (SECTION C402.5)
		AIR BARRIER COMPLIANCE BY MATERIALS (SECTION C402.5.1.2.1)
		AIR BARRIER COMPLIANCE BY ASSEMBLIES (SECTION C402.5.1.2.2)

MAXIMUM AIR LEAKAGE OF FENESTRATION (§C402.5.2):	REQUIRED (CFM / FT²)	PROVIDED
WINDOWS	0.20	
SLIDING DOORS	0.20	
SWINGING DOORS	0.20	
SKYLIGHTS (w/ CONDENSATION / WEEP OPENINGS)	0.30	
SKYLIGHTS (ALL OTHER)	0.20	
CURTAIN WALLS	0.06	
STOREFRONT GLAZING	0.06	
COMMERCIAL GLAZED SWINGING DOORS	1.00	
POWER-OPERATED SLIDING / FOLDING DOORS	1.00	
REVOLVING DOORS	1.00	
GARAGE DOORS	0.40	
OVERHEAD ROLLING DOORS	1.00	
HIGH-SPEED OVERHEAD COILING DOORS	1.30	

DOORS & ACCESS OPNG's. (§C402.5.4):		
		MAXIMUM AIR LEAKAGE COMPLIANCE WITH (SECTION C402.5.2)
	X	COMPLIANCE BY OPENING GASKETED, WEATHER-STRIPPED, & SEALED

VESTIBULE(S) REQUIRED (SECTION C402.5.7):	NO, PER C402.1.1 LOW-ENERGY BUILDINGS

BUILDING MECHANICAL SYSTEMS (§C403): SERVICE WATER HEATING EQUIPMENT (§C404): ELECTRICAL POWER & LIGHTING SYSTEMS (§C405):	CONSULTANT PLANS, SPECIFICATIONS, AND / OR CALCULATIONS PROVIDE ALL INFORMATION WITH WHICH COMPLIANCE CAN BE DETERMINED FOR THE BUILDING MECHANICAL SYSTEMS, SERVICE WATER HEATING EQUIPMENT & PIPING, AND ELECTRICAL POWER & LIGHTING SYSTEMS AND DOCUMENT WHERE EXCEPTIONS TO THE REFERENCED STANDARD REQUIREMENTS ARE CLAIMED.

SPRINKLER PROTECTION

BUILDING TO BE EQUIPPED THROUGHOUT WITH AND AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1. REFER TO FIRE PROTECTION DRAWINGS.

SEISMIC REQUIREMENTS

MECHANICAL AND PIPING BRACING IS NOT REQUIRED IN THIS SEISMIC DESIGN CATEGORY. REFER TO STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

2012 INTERNATIONAL BUILDING CODE (IBC):

IBC CHAPTER 1: SCOPE & ADMINISTRATION

THIS PROJECT IS SUBJECT TO ALL APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, UNLESS SPECIFICALLY NOTED OTHERWISE, INCLUDING BUT NOT LIMITED TO THOSE LISTED BELOW. FOR THE PURPOSES OF THIS REVIEW, AN ABBREVIATED LIST OF REQUIREMENTS HAS BEEN REFERENCED BELOW.

IBC CHAPTER 2: DEFINITIONS

N/A

IBC CHAPTER 3: OCCUPANCY CLASSIFICATION & USE

PRIMARY OCCUPANCY:	GROUP E	EDUCATIONAL, IBC SECTION 305

IBC CHAPTER 4: SPECIAL DETAILED REQUIREMENTS

THE REQUIREMENTS OF THIS CHAPTER ARE APPLICABLE AS REFERENCED IN THE PROJECT SPECIFICATIONS AND ON THE DRAWINGS.

IBC CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS

ALLOWABLE BUILDING HEIGHT:	55 FEET & 2 STORIES ABOVE GRADE PLANE: ALLOWABLE PER TABLES 503 (ALLOWABLE BUILDING HEIGHTS AND AREAS)
w/ SPRINKLER INCREASE:	75 FEET & 3 STORIES ABOVE GRADE PLANE: ALLOWABLE PER IBC SECTION 504 (AUTOMATIC SPRINKLER SYSTEM INCREASE)
ACTUAL BUILDING HEIGHT:	30'-0" ABOVE GRADE PLANE: EAVE HEIGHT
MEZZANINES & EQUIPMENT PLATFORMS:	N/A

ALLOWABLE BUILDING AREA (w/o MODIFICATIONS):	14,500SF
ALLOWABLE AREA MODIFICATIONS:	
506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE:	14,500SF (200%) = 29,000SF
BUILDINGS NO MORE THAN ONE STORY ABOVE GRADE PLANE:	14,500SF (300%) = 43,500SF
TOTAL ALLOWABLE BUILDING AREA:	**43,500SF**
ACTUAL BUILDING AREA:	**32,400SF**
MIXED USE & OCCUPANCY:	N/A
REQUIRED SEPARATION OF OCCUPANCIES:	N/A

IBC CHAPTER 6: TYPES OF CONSTRUCTION

CONSTRUCTION TYPE:	TYPE II-B (IBC SECTION 602.2) - SPRINKLERED	
FIRE RESISTANCE RATING REQUIREMENTS (TABLE 601):		
PRIMARY STRUCTURAL FRAME:	0	
BEARING WALLS:		
EXTERIOR:	0	
INTERIOR:	0	
NON-BEARING WALLS & PARTITIONS:		
EXTERIOR (TABLE 602):	REQ's. LISTED BELOW	PER FIRE SEPARATION DISTANCE
INTERIOR:	0	
FLOOR CONSTRUCTION & SECONDARY MEMBERS:	0	
ROOF CONSTRUCTION & SECONDARY MEMBERS:	0	
FIRE RESISTANCE RATING REQUIREMENTS (TABLE 602):		
NORTH ELEVATION:	0	X ≥ 30'-0" FIRE SEPARATION DISTANCE
EAST ELEVATION:	0	X ≥ 30'-0" FIRE SEPARATION DISTANCE
SOUTH ELEVATION:	0	X ≥ 30'-0" FIRE SEPARATION DISTANCE
WEST ELEVATION:	0	X ≥ 30'-0" FIRE SEPARATION DISTANCE

IBC CHAPTER 7: FIRE & SMOKE PROTECTION FEATURES

FIRE RESISTANCE RATING REQUIREMENTS:	WALLS & PARTITIONS	OPENINGS (TABLE 716.1) DOORS	WINDOWS
FIRE WALLS (SECTION 706.4): FIRE BARRIERS (SECTION 707.3): FIRE PARTITIONS (SECTION 708.3): SMOKE BARRIERS (SECTION 709.3): SMOKE PARTITIONS (SECTION 710.3): SHAFT ENCLOSURES (SECTION 713.4):	NO FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, SMOKE PARTITIONS, OR RATED SHAFT ENCLOSURES REQUIRED BY THIS PHASE OF CONSTRUCTION		

IBC CHAPTERS 8 - 9:

THE REQUIREMENTS OF THIS CHAPTER ARE APPLICABLE AS REFERENCED IN THE PROJECT SPECIFICATIONS AND ON THE DRAWINGS.

IBC CHAPTER 10: MEANS OF EGRESS *NOTE: ALL AREAS ARE APPROXIMATE & INTENDED FOR CODE USE ONLY

FLOOR	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA	CALCULATED OCC. LOAD	ACTUAL OCC. LOAD	TOTALS PER FLOOR
OPEN PRACTICE AREA	EXERCISE ROOMS	50 GROSS	27,220 SF	545 OCC.	545 OCC.	NA
RESTROOMS / OTHER	WAREHOUSES	500 GROSS	(SEE A09 / G099)	1 OCC. / PER	1 OCC. / PER	NA
OPEN PRACTICE AREA	ASSEMBLY (UNCONCENTRATED)	15 NET	27,220 SF	*1,840 OCC.	*1,840 OCC.	NA
*WORST CASE						

*ALTHOUGH THE FUNCTION OF THE SPACE IS EXERCISE ROOM (ATHLETIC TRAINING FACILITY USED OUTSIDE OF SCHOOL OPERATING HOURS), EGRESS COMPONENTS ARE OVERSIZED TO ACCOUNT FOR A WORST CASE SCENARIO - ASSEMBLY. THIS STRATEGY WAS DETERMINED IN INITIAL PROJECT KICKOFF DISCUSSIONS WITH JASON THOMPSON AND WAYNE MORRIS.

EGRESS WIDTH PER OCCUPANT SERVED:			
STAIRWAYS:	NA	0.2	INCHES PER OCCUPANT; PER SECTION 1005
OTHER COMPONENTS:	1,840 (0.15) = 276" OR 23' REQUIRED 24' PROVIDED	0.15	INCHES PER OCCUPANT; SECTION 1005

COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED A DISTANCE OF 75 FEET (GROUP E)	
SEPARATION OF EXIT & EXIT ACCESS DOORWAY CONFIGURATION:	DISTANCE APART OF EQUAL TO OR NOT LESS THAN 1/3 MAXIMUM DIAGONAL DIMENSION (SECTION 1015.2.1 EXCEPTION 2)
EXIT ACCESS TRAVEL DISTANCE:	SHALL NOT EXCEED 250 FEET, SPRINKLERED (TABLE 1016.1)
MAXIMUM DEAD END COORIDOR:	SHALL NOT EXCEED 50 FEET, SPRINKLERED FOR OCCUPANCY GROUP E (SECTION 1018.4; EXCEPTION 2)

REFER TO LIFE SAFETY PLAN A09/G099 FOR PROJECT SPECIFIC APPLICATION OF THE ABOVE MEANS OF EGRESS REQUIREMENTS.

IBC CHAPTER 11: ACCESSIBILITY

ACCESSIBLE PARKING SPACES PROVIDED PER ANDERSON CO ZONING. AS BUILDING IS IN USE OUTSIDE OF SCHOOL OPERATIONAL HOURS, ANDERSON CO HIGH SCHOOL EXISTING PARKING IS USED FOR THIS BUILDING. AN ACCESSIBLE ROUTE IN ACCORDANCE WITH SECTION 1104 IS PROVIDED. SEE CIVIL DRAWINGS AS WELL AS ARCHITECTURAL SITE PLAN.

IBC CHAPTER 17: SPECIAL INSPECTIONS & TESTING REQUIREMENTS

THIS PROJECT IS SUBJECT TO ALL APPLICABLE SECTIONS OF THE CHAPTER 17 REQUIREMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

IBC CHAPTER 18 - 28:

THE REQUIREMENTS OF CHAPTERS 18 - 28 ARE REFERENCED IN THE PROJECT SPECIFICATIONS / ON THE DRAWINGS AS APPLICABLE TO THIS PROJECT.

IBC CHAPTER 29: PLUMBING SYSTEMS

FOR THE PURPOSES OF CALCULATING THE NUMBER OF REQUIRED PLUMBING FIXTURES, THE OCCUPANCY CLASSIFICATION SHALL BE WAREHOUSE (500 GROSS; TABLE 1004.1.2).
27,220 / 500 OCC = 55 OCCUPANTS.

FLOOR	OCCUPANCY	OCC LOAD	WATER CLOSETS MALE REQ.	WATER CLOSETS MALE PROV.	WATER CLOSETS FEMALE REQ.	WATER CLOSETS FEMALE PROV.	LAVATORIES MALE REQ.	LAVATORIES MALE PROV.	LAVATORIES FEMALE REQ.	LAVATORIES FEMALE PROV.	DRINKING FOUNTAIN REQ.	DRINKING FOUNTAIN PROV.	SERVICE SINK REQ.	SERVICE SINK PROV.
LEVEL 01	OPEN PRACTICE AREA (A-4)	55	1	1	1	1	1	1	1	1	1	1	1	1

* THE PRACTICE FACILITY IS LOCATED ACROSS THE STREET FROM LOCKEROOMS AND FIELDHOUSE WHICK WILL SERVE AS THE PRIMARY AREAS FOR OCCUPANTS TO CHANGE AND USE THE RESTROOM FACILITIES.

CITY OF CLINTON FIRE DEPARTMENT

FIRE CHIEF:

JEFF LITTLE

JLITTLE@CLINTONTN.NET
(865) 457-2131

HEADQUARTERS:
125 W. BROAD ST
CLINTON, TN 37716

FIRE STATION 1 - 100 LONGMIRE ROAD
FIRE STATION 2 - 264 HIGHWAY DRIVE

TENNESSEE FIRE MARSHAL CODES

CODES CURRENTLY ADOPTED BY THE TENNESSEE STATE FIRE MARSHAL'S OFFICE:

INTERNATIONAL BUILDING CODE, 2012 EDITION (EXCLUDING CHAPTER 11 AND SECTION 3411)
INTERNATIONAL FUEL GAS CODE, 2012 EDITION
INTERNATIONAL MECHANICAL CODE, 2012 EDITION
NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE, 2012 EDITION, OR
INTERNATIONAL ENERGY CONSERVATION CODE, 2006 EDITION
INTERNATIONAL FIRE CODE, 2012 EDITION
INTERNATIONAL EXISTING BUILDING CODE, 2012 EDITION
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
NFPA 101 LIFE SAFETY CODE, 2012 EDITION

PROJECT IDENTIFICATION:

PROJECT NAME:	ANDERSON COUNTY SPORTS TRAINING FACILITY
PROJECT NUMBER:	23030
LOCATION:	160 MAVERICK CIR, CLINTON, TN | 37716

SITE ZONING & CODES REVIEW:

RESEARCH BY:	TYLER GOZA, DESIGN INNOVATION (DIA)
RESEARCH DATE:	2023-10-10
RESEARCH VERIFIED BY:	GREG CAMPBELL, DESIGN INNOVATION (DIA), ARCHITECT OF RECORD

AUTHORITIES HAVING JURISDICTION (AHJ):	
	TN FIRE PREVENTION / STATE FIRE MARSHAL'S OFFICE (SFMO)
	ANDERSON COUNTY - BUILDING CODES DEPT.

ZONING ORDINANCES & AMENDMENTS:	
	ANDERSON COUNTY ZONING RESOLUTION
	ANDERSON COUNTY SUB-DIVISION REGULATIONS
	ANDERSON COUNTY SCHOOLS HAS INITIATED THE PROCESS OF ONE-LOTTING PARCELS 043 11803.000 AND 043 11802.000. 043 11803.000 WILL BE ABSORBED INTO 043 11802.000 AND THUS WILL BE ZONED A-2.

APPLICABLE CODES & GUIDELINES:			
* PROJECT ADHERES TO BOTH ANDERSON COUNTY BUILDING CODES (ADBC) AND TN STATE FIRE MARSHAL (SFM) AHJ - MOST RESTRICTIVE.	SFM	2012	INTERNATIONAL BUILDING CODE (IBC)
	SFM	2012	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
	SFM	2012	INTERNATIONAL FIRE CODE (IFC)
	SFM	2012	INTERNATIONAL FUEL GAS CODE (IFGC)
	SFM	2012	INTERNATIONAL MECHANICAL CODE (IMC)
	ACBC	2009	INTERNATIONAL PLUMBING CODE (IPC)
	ACBC	2009	INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC)
	SFM	2010	AMERICANS WITH DISABILITIES ACT (ADA) - ACCESSIBILITY GUIDELINES

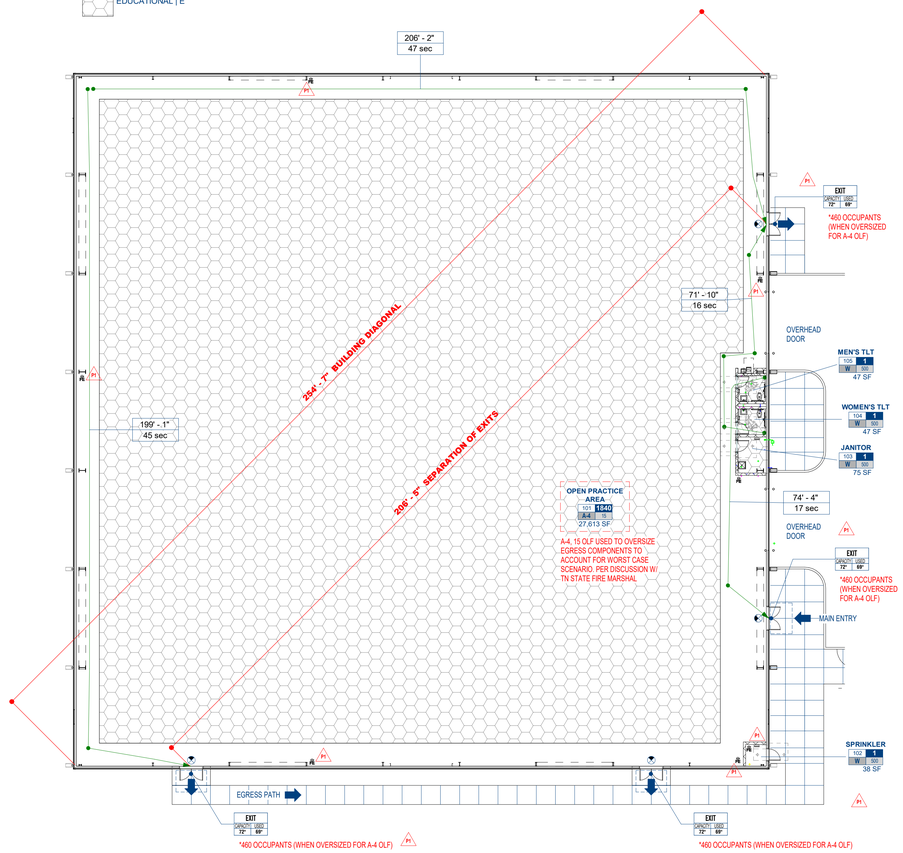
PROJECT SCOPE:
A NEW INDOOR PRACTICE FACILITY FOR ANDERSON COUNTY HIGH SCHOOL ON THE CAMPUS OF ACHS. THE NEW FACILITY WILL INCLUDE A TURF PLAYING SURFACE (TURF TO BE PROVIDED BY AND INSTALLED BY OTHERS). THE FACILITY WILL ALSO INCLUDE RESTROOMS AND A JANITOR'S CLOSET. EXISTING PARKING WILL SERVICE THE BUILDING AS THE PRACTICE FACILITY WILL ONLY BE IN OPERATION OUTSIDE OF ACHS OPERATING HOURS. ACCESSIBLE PARKING SPACES ARE PROVIDED WITH AN ACCESSIBLE ROUTE TO THE BUILDING'S PRIMARY ENTRANCE.

LIFE SAFETY GRAPHIC LEGEND	
300'	MAXIMUM EXIT / EXIT ACCESS TRAVEL DISTANCE
	EXIT / EXIT ACCESS TRAVEL DISTANCE SEGMENT START / STOP
FEC	SEMI-RECESSED / FLUSH WALL MOUNTED FIRE EXTINGUISHER CABINET
FE	WALL HOOK MOUNTED FIRE EXTINGUISHER
	EXIT SIGNAGE & EMERGENCY LIGHTING (SEE ELECTRICAL DRAWINGS)
EXIT NAME CAPACITY USE ### ##	EXIT / EXIT ACCESS COMPONENT & TAG 36" (34" CLEAR) EXIT / EXIT ACCESS DOOR = 226 OCCUPANTS MAX (34"/.15) PER IBC §1005.3.2 42" (36" CLEAR BETWEEN HANDRAILS) INTERIOR EXIT STAIR = 180 OCCUPANTS MAX, (36"/.2) PER IBC §1005.3.1 54" (48" CLEAR BETWEEN HANDRAILS) INT. EXIT STAIR = 240 OCCUPANTS MAX (48"/.2) PER IBC §1005.3.1
	ACCESSIBLE CLEAR FLOOR SPACE

TFM # 03970-F

OCCUPANCY [IBC 2012]

EDUCATIONAL | E



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ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICOLA 2024-10-01 TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
2	BIDDING	2024-10-01

SHEET DESCRIPTION

PROJECT CODE REQUIREMENTS

G099

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

A10 GROUND FLOOR
1/16" = 1'-0" LIFE SAFETY PLAN

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TFM # 03970-F

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:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	0%

Construction Site:
160 Maverick Cir
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
1-Sports Training Facility - heat only. (Exercise center) : Nonresidential	32400

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Metal Building, Standing Seam, Liner System with Thermal Blocks (b), [Bldg. Use 1 - Sports Training Facility - heat only.]	32400	0.0	29.0	0.034	0.035
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Sports Training Facility - heat only.]	21798	0.0	20.0	0.048	0.052
Window: Metal Frame with Thermal Break: Fixed, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 1 - Sports Training Facility - heat only.]	51	---	---	0.650	0.380
Door: Insulated Metal, Swinging, [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

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Project Notes

Envelope PASSES: Design 0.1% better than code

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 COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

TYLER GOZA — Tyler Goza — 2023-11-30
Name - Title / Signature / Date

Digitally signed by Tyler Goza
DN: C=US, E=tgoza@dia-arch.com, CN=Tyler Goza
Date: 2023.11.30 18:08:33-05'00'

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

GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICULTURE COMMERCE
No. 101049
STATE OF TENNESSEE
2023-11-30

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 (ft2)	C Allowed Watts / ft2	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 COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer — 11-10-23
Name - Title / Signature / Date

AARON ANDREW LOVE
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 113344
STATE OF TENNESSEE
11-10-23

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 (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 COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer — 11-10-23
Name - Title / Signature / Date

AARON ANDREW LOVE
REGISTERED ENGINEER
AGRICULTURE COMMERCE
No. 113344
STATE OF TENNESSEE
11-10-23

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 COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Blakney - President — 11-09-23
Name - Title / Signature / Date

DAVID M. BLAKNEY
REGISTERED ENGINEER
XVI
AGRICULTURE COMMERCE
No. 112770
STATE OF TENNESSEE

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GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICULTURE COMMERCE
No. 101049
STATE OF TENNESSEE
2023-11-10

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

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

SHEET DESCRIPTION
COMCHECK

P1
G100

PROJECT DATE	PROJECT NUMBER
2023-11-10	23030

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==	ARCHITECTURAL
ABV	ABOVE
ACC	ACCESSIBLE (ACCESSIBILITY)
ACT	ACOUSTICAL CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADJT	ADJUSTABLE
ADO	AUTOMATIC DOOR OPENER
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPD	APPENDIX
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AS	ARCHITECTURAL SITE
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWC	ACOUSTICAL WALL COVERING
BATT	BATT INSULATION
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BEL	BELOW
BITUM	BITUMINOUS
BJ	BRICK JOINT
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BO	BOTTOM OF
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BT	BENT
BUR	BUILT-UP ROOFING
BVL	BEVELED
BW	BOTH WAYS
C#	CIVIL
CAB	CABINET
CALC	CALCULATION (CALCULATED)
CAP	CAPACITY
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FOOT
CG	CORNER GUARD
CHAM	CHAMFER
CHIM	CHIMNEY
CHT	CEILING HEIGHT
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCULAR
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR(ANCE)
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
CO2	CARBON DIOXIDE
COL	COLUMN
COMB	COMBUSTIBLE
COMM(S)	COMMUNICATION(S)
COMP	COMPRESSED(ED) (ION) (IBLE)
COMPT	COMPARTMENT
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(OUS)
CONTR	CONTRACT(OR)
COR	CORNER
CORR	CORRIDOR
COV	COVER(ED)
CPL	CEMENT PLASTER
CPR	COPPER
CPT	CARPET
CRES	CORROSIVE RESISTANT
CRS	COURSE(S)
CSMT	CASEMENT
CST	CAST STONE
CTC	CENTER TO CENTER
CTR	CENTER
CU	CONDENSING UNIT
CV	CEILING VENT
CY	CUBIC YARDS
CYL	CYLINDER
D	DRYER
d	PENNY (AS IN NAIL, ld)
DA	DOUBLE ACTIVE
DB	DRY BULB
DBL	DOUBLE
DBLH	DOUBLE HUNG
DD	DESIGN DEVELOPMENT
DEG	DEGREE
DEMO	DEMOLISH(ED) (DEMOLITION)
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIM(S)	DIMENSION(S)
DISC	DISCONNECT
DIST	DISTRIBUTE(D),(ION)
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DP	DAMPPROOFING
DPR	DAMPER
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWT	DUMBWAITER
E	EAST
E#	ELECTRICAL
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENTR	ENTRANCE, ENTERING
EO	EDGE OF
EP	ELECTRIC PANEL
EPY	EPOXY COATING
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXD	EXIT DEVICE
EXH	EXHAUST
EXP	EXPOSED
EXPN	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
F	FAHRENHEIT
F/C	FLOOR-CEILING
FA	FIRE ALARM
FAS	FASTEN(ER)
FB	FACE BRICK
FBD	FIBERBOARD
FBO	FURNISHED BY OTHERS
FC	FIRE CODE
FCG	FACING
FCU	FLOOR COIL UNIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FG	FIBERGLASS
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(ED)
FIX	FIXTURE
FJT	FLUSH JOINT
FL	FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR
FLUOR	FLUORESCENT
FN	FENCE
FND	FOUNDATION
FO	FACE OF
FP#	FIRE PROTECTION
FPL	FLOOR PLATE
FPRF	FIRE PROOF
FR	FRAME(D)(ING)
FRA	FRESH AIR
FRC	FIRE-RESISTANT COATING
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT
FS	FULL SIZE
FT	FEET
FTG	FOOTING
FUR	FURR(ED)(ING)
FUT	FUTURE
FV	FIELD VERIFY
G	GAS
G#	GENERAL INFORMATION
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRP	GLASS FIBER REINFORCED PLASTER
GKT	GASKET(ED)
GL	GLASS, GLAZING
GLB	GLASS BLOCK
GLF	GLASS FIBER
GND	GROUND
GOV	GOVERNMENT
GPL	GYPSUM LATH
GPM	GALLONS PER MINUTE
GRL	GUARD RAIL
GRN	GRANITE
GRTG	GRATING
GT	GROUT
GUT	GUTTER
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HBD	HARD BOARD
HC	HOLLOW CORE
HCAP	HANDICAP(PED)
HCWD	HOLLOW CORE WOOD DOOR
HD	HEAVY DUTY
HDR	HEADER
HDW	HARDWARE
HGT	HEIGHT
HK	HOOK(S)
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRL	HAND RAIL
HS	HIGH STRENGTH
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWD	HARDWOOD
HWH	HOT WATER HEATER
HYD	HYDRANT
HYDR	HYDRAULIC
IC	INTERCOM
ID	INSIDE DIAMETER
IFC	ISSUE(D) FOR CONSTRUCTION
IIC	IMPACT INSULATION CLASS
IN	INCH
INCL	INCLUDE(D)(ING)
INSUL	INSULATE(ING)(ION)(ED)
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT(ED)
IR GYP	IMPACT RESISTANT GYPSUM WALL BOARD
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KD	KILN-DRIED
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE(D)
LAV	LAVATORY
LBR	LUMBER
LBS	POUNDS
LF	LINEAR FEET (FOOT)
LG	LENGTH
LH	LEFT HAND(ED)
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LNDY	LAUNDRY
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LIGHTPROOF
LR	LIVING ROOM
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
M	METER(S)
M#	MECHANICAL
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MBR	MEMBER
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTUR(ER)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOULD(ING)
MM	MILLIMETER(S)
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODIFIED
MONO	MONOLITHIC
MOV	MOVABLE
MR	MOISTURE RESISTANT
MRB	MARBLE
MRD	METAL ROOF DECK
MS	MOP SINK
MSTC	MASTIC
MTD	MOUNT(ED)(ING)
MTL	METAL
MULL	MULLION
MWK	MILLWORK
N	NORTH
NAT	NATURAL
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NREQD	NOT REQUIRED
NS	NO SCALE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OTS	OPEN TO STRUCTURE
OVRL	OVERALL
P#	PLUMBING
PAR	PARALLEL
PBD	PARTICAL BOARD
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERF	PERFORATE(D)
PERI	PERIMETER
PF	PRE-FINISHED
PH	PHASE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FEET (FOOT)
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PORC	PORCELAIN
PORT	PORTABLE
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PRF	PREFORMED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PT WD	PRESSURE TREATED WOOD
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
QTR	QUARTER
QTY	QUANTITY
R#	REVISION
R/C	ROOF-CEILING
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECEPTACLE
REF	REFRIGERATOR
REFER	REFERENCE
REINF	REINFORCE(D)
REM	REMOVE(ABLE)
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
RFG	ROOFING
RGE	RANGE
RGH	ROUGH
RH	RIGHT HAND(ED)
RL	RAIL(ING)
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RESTROOM
RVS	REVERSE (SIDE)
RWC	RAINWATER CONDUCTOR
RWL	RAINWATER LEADER
S	SOUTH
S#	STRUCTURAL
SAB	SOUND ATTENUATION BLANKET
SAF	SELF ADHEARED FLASHING
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCWD	SOLID CORE WOOD DOOR
SD	SCHEMATIC DESIGN
SDI	STEEL DOOR INSTITUTE
SEAL	SEALANT
SGL	SINGLE
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLEEVE
SM	SHEET METAL
SOH	SIMILAR, OPPOSITE HAND
SPD	SOUND-PROOF DOOR
SPEC	SPECIFICATION(S)
SPF	SOUNDPROOF
SPKR	SPEAKER
SQ	SQUARE
SSK	SERVICE SINK
SSMR	STANDING SEAM METAL ROOF
SSTL	STAINLESS STEEL
ST	STAIN
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURE(AL)
SUSP	SUSPENDED
SV	SHEET VINYL
SVF	SHEET VINYL FLOORING
SYM	SYMMETRICAL
SYS	SYSTEM
T&G	TONGUE & GROOVE
TAN	TANGENT
TB	TOWEL BAR
TBL	TABLE
TC	TERRA COTTA
TELE	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK(NESS)
TLT	TOILET
TMPT	TEMPERATURE
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PAPER
TPD	TOILET PAPER DISPENSER
TR	TRANSOM
TRANS	TRANSVERSE
TRD	TREAD
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTL	UTILITY
V	VOLT
VAB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VS	VENT STACK
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/C	WHEEL CHAIR
W/D	WASHER/DRYER
W/O	WITHOUT
WB	WOOD BASE
WC	WASTE CLOSET
WD	WOOD
WH	WATER HEATER
WHT	WHITE
WI	WROUGHT IRON
WID	WIDTH
WIN	WINDOW
WM	WIRE MESH
WP	WEATHERPROOF
WPF	WATERPROOF
WPG	WATERPROOFING
WPT	WORKING POINT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTIVE BARRIER
WS	WATER STOP
WSCT	WAINSCOT
WT	WEIGHT
WTW	WALL-TO-WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER
YD	YARD

TFM # 03970-F

	TURF
	TURF FIELD LINE PAINT
	PLYWOOD
	STEEL
	STONE
	ALUMINUM
	ASPHALT
	BRICK
	CMU
	CONCRETE (SECTION CUTS & DETAIL VIEWS)
	EARTH
	EARTH (DISTURBED)
	E.I.F.S. & STUCCO
	GLASS
	GRAVEL
	INSULATION (BATT)
	INSULATION (FOAM FILLED) - LG. SCALE
	INSULATION (RIGID)
	PLASTIC
	SAND, GYPSUM WALL BOARD, GROUT, CONCRETE (PLAN VIEW)
	WOOD BLOCKING (CONTINUOUS)
	WD. BLOCKING (INTERMITTENT) / FURRING
	WOOD VENEER
	WOOD (SECTION CUT)
	INSULATION (FOAM FILLED) - SM. SCALE

Q03 STANDARD MATERIALS

LEGEND

DRAWING # — A04 — DRAWING VIEW TITLE — NOT TO SCALE — GENERAL TEXT / ADDITIONAL INFORMATION — SCALE — NORTH ARROW (PLANS)

TITLE MARKER REFERENCE

SPOT ELEVATION 100'-0" — ELEVATION IDENTIFICATION — LEVEL 100'-0" — ELEVATION

ELEVATION / DATUM REFERENCE

EXISTING (GRAY) — NEW (BLUE) — 1 — 2 — A

COLUMN REFERENCE

C12 / A101 — DETAIL # — SHEET #

DETAIL SECTION REFERENCE

E14 / A101 — DETAIL # — SHEET #

WALL SECTION REFERENCE

D54 / A101 — DETAIL # — SHEET #

BUILDING SECTION REFERENCE

A14 / A101 — DETAIL # — SHEET #

INTERIOR ELEVATION REFERENCE

B17 / A101 — DETAIL # — SHEET #

EXTERIOR ELEVATION REFERENCE

ROOM NAME — 101 — ROOM NUMBER — 150 SF — AREA or COMMENTS

ROOM TAG

AREA NAME — 17,859.64 SF — 358 OCCUPANTS — OCCUPANT LOAD

AREA TAG

X — DIMENSION TO FACE OF STUD, CONC., MASONRY & COLUMN CTR. LINE - UNO

DIMENSION REFERENCE

SYMBOL INDICATES CONTRACTOR IS TO ALIGN FINISH FACES OF TWO NOTED WALLS / CEILINGS / ETC - OFFSET FRAMING AND / OR ADD FINISH LAYERS AS REQUIRED TO ACHIEVE ALIGNMENT

WALL ALIGNMENT REFERENCE

1 — KEYED NOTE #

KEYED NOTE REFERENCE

C12 / A101 — DETAIL # — SHEET #

ENLARGED DETAIL REFERENCE

B2436

CASEWORK TAG

ELEVATION ABOVE FINISH FLOOR — CEILING # — 1t — 1'-0"

CEILING TAG

WALL — 0.98 A — C4 — REFER TO SHEET A000 FOR ADDITIONAL INFORMATION.

WALL TYPE TAG

AOW-3900 — REFER TO SHEET A500 FOR ADDITIONAL INFORMATION

WINDOW TAG

AF-1-01 — REFER TO SHEET A500 FOR ADDITIONAL INFORMATION

GLAZING SYSTEM TAG

105A — DOOR #

DOOR TAG

4 5 7

PARKING COUNT TAG

CURRENT REVISION # — A2 — ITEMS INSIDE CLOUD ARE MODIFIED FROM PREVIOUS ISSUE — A1 — PREVIOUS REVISION # — CURRENT REVISION CLOUD

REVISION CLOUD & TAG

A10 LEGEND - STANDARD SYMBOLS — NOT TO SCALE

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GREGORY SCOTT CAMPBELL — REGISTERED ARCHITECT — AGRICOLA — 2023-11-10 — STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

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

SHEET DESCRIPTION

LEGENDS & ABBREVIATIONS

G199

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

A25 ABBREVIATIONS

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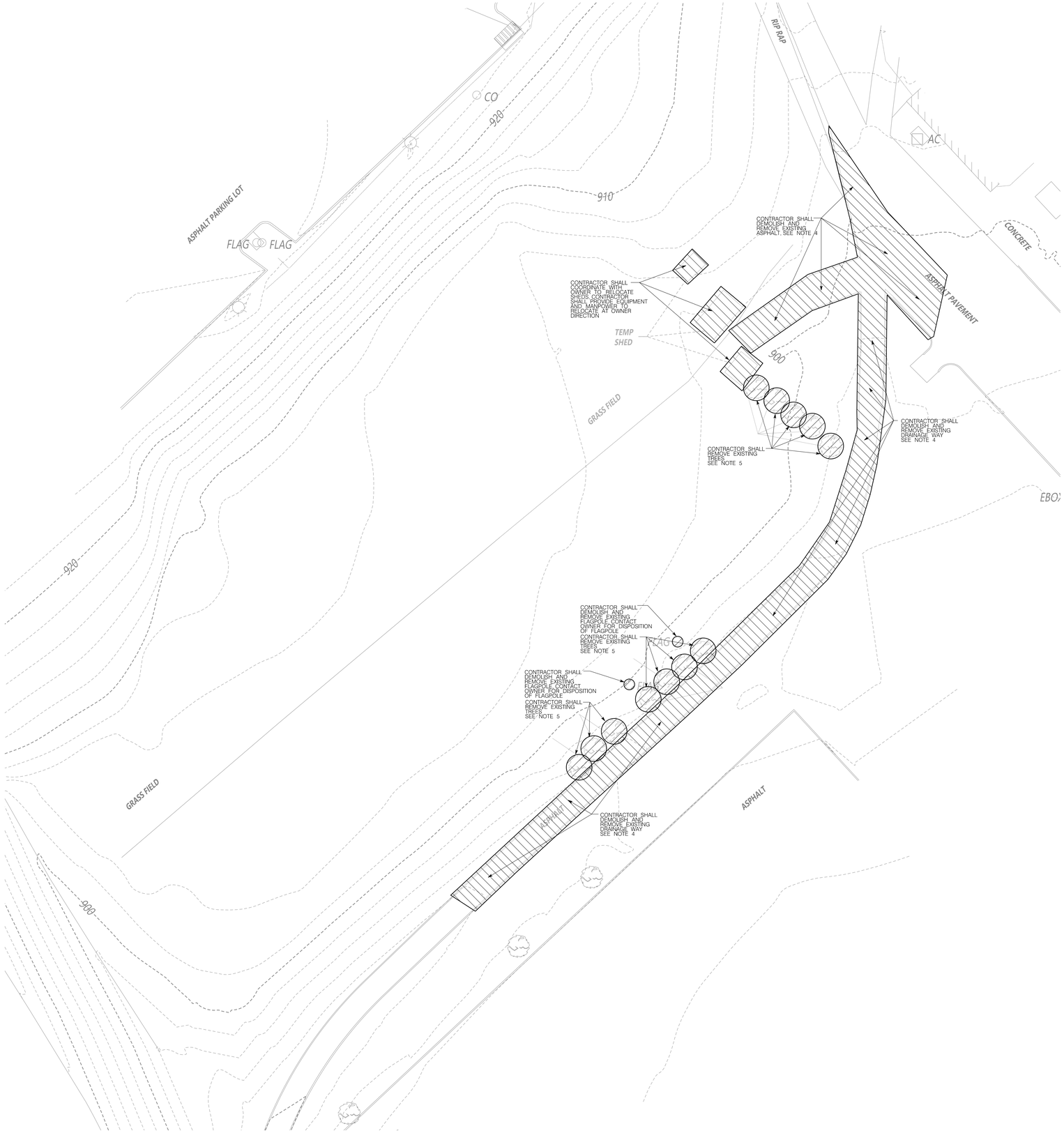

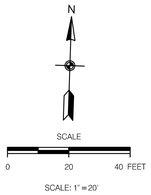

LEGEND:

EXISTING	PROPOSED	
535	535	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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SITE DEMOLITION NOTES

1. 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.
2. 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.
3. DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES HAVE BEEN INSTALLED AND ARE FUNCTIONAL.
4. 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.
5. 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 OFFSITE 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.
6. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING CONCRETE AND/OR PAVEMENT ALONG ALL LIMITS OF CONCRETE AND/OR PAVEMENT DEMOLITION.
7. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. DISPOSE OF DEMOLITION WASTE OFF THE OWNERS PROPERTY IN A LEGAL MANNER.
8. 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.
9. 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.
10. 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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WILLIAM N. ROBINSON
REGISTERED PROFESSIONAL ENGINEER
10/17/2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

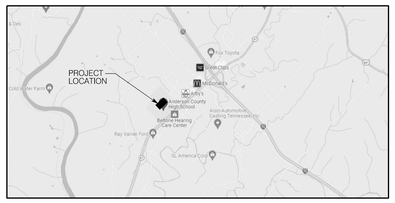
SHEET DESCRIPTION

SITE DEMOLITION PLAN

C101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/16/2021 3:06:29 PM



PROJECT LOCATION MAP – NOT TO SCALE

N

SCALE

0 20 40 FEET

SCALE: 1" = 20'

LEGEND:

EXISTING	PROPOSED	
535	535	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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA		SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SITE LAYOUT NOTES

1. USE: ATHLETIC FACILITY, ZONING: R-1/A-2, PARCELS: 043 118.02 AND 043 118.03
2. TOTAL BUILDING AREA: PROPOSED 33,183 SF (1 STORY)
3. TOTAL SITE: 76.3 AC, TOTAL DIST AREA: 1.88 AC, TOTAL NEW IMPERV: 0.98 AC.
4. DEED REFERENCE: BOOK B-13 OG 236 AND 0Y14 PAGE 0128
5. THIS PROPERTY IS NOT LOCATED IN AN AREA DESIGNATED AS A SPECIAL FLOOD HAZARD AREA, SEE MAP 047001C0136G DATED 05/04/2009.
6. SITE BENCHMARK: CONTACT SURVEYOR FOR SITE BENCHMARK. DATUM NAVD 88.
7. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS FROM A SURVEY BY S&ME DATED 09/05/2023. THE CONTRACTOR SHALL VERIFY THE EXISTING INFORMATION PRIOR TO CONSTRUCTION. THE ARCHITECT NOR THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY THE OTHERS.
8. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS REPSONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
9. PARKING SUMMARY:
   TOTAL REQUIRED: NO ADDITIONAL PARKING
   TOTAL PROVIDED: 2 ADA SPACES
   BASIS: CAMPUS PARKING QUANTITY WILL NOT CHANGE BASED ON THIS FACILITY
10. SETBACKS:
    FRONT: 30'
    SIDE: 10'
    REAR: 25'
11. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF THE WORK. ALL MATERIALS AND EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS.
12. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE 'MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION' ISSUED BY THE AGC OF AMERICA INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE US DEPARTMENT OF LABOR. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION EROSION AND SEDIMENT CONTROL HANDBOOK.
13. VERIFY SITE CONDITIONS, DIMENSIONS, ELEVATIONS, AND LOCATION OF EXISTING FEATURES BEFORE STARTING WORK. THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED OF ANY INTERFERENCES OR DISCREPANCIES.
14. TRAFFIC CONTROL IN CONSTRUCTION AREAS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
15. CORRECT ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALKS, DRAINAGE STRUCTURES, UTILITIES, OR OTHER EXISTING IMPROVEMENTS AT NO EXPENSE TO THE OWNER.
16. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND/OR CONCRETE AND NEW PAVEMENT AND/OR CONCRETE. FIELD ADJUSTMENT OF FINAL GRADES MAY BE REQUIRED. INSTALL ALL STORM SYSTEMS PRIOR TO INSTALLATION OF PAVEMENT AND/OR CONCRETE.
17. DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR TO THE FACE OF BUILDING UNLESS NOTED OTHERWISE.
18. MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION. INCLUDE ALL UTILITY LOCATIONS AND ALL NEW SIDEWALK RAMPS, ELEVATIONS FOR ALL SANITARY AND STORM SEWER STRUCTURES. SHALL BE INCLUDED. DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES DISCOVERED DURING CONSTRUCTION.
19. THE BELGARD PERMEABLE PAVER SYSTEM BMP HAS BEEN SPECIFIED FOR STORMWATER QUALITY MANAGEMENT SPECIFICALLY FOR THIS PROJECT. ANY DEVIATION FROM THE SPECIFIED INSTALLATION WILL NEED TO BE EVALUATED BY THE DESIGN ENGINEER OF THIS PROJECT AND SUBMITTED FOR APPROVAL TO ROANE COUNTY.

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WILLIAM N. ROBINSON
REGISTERED ENGINEER
117-2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

SHEET DESCRIPTION

SITE LAYOUT PLAN

C102

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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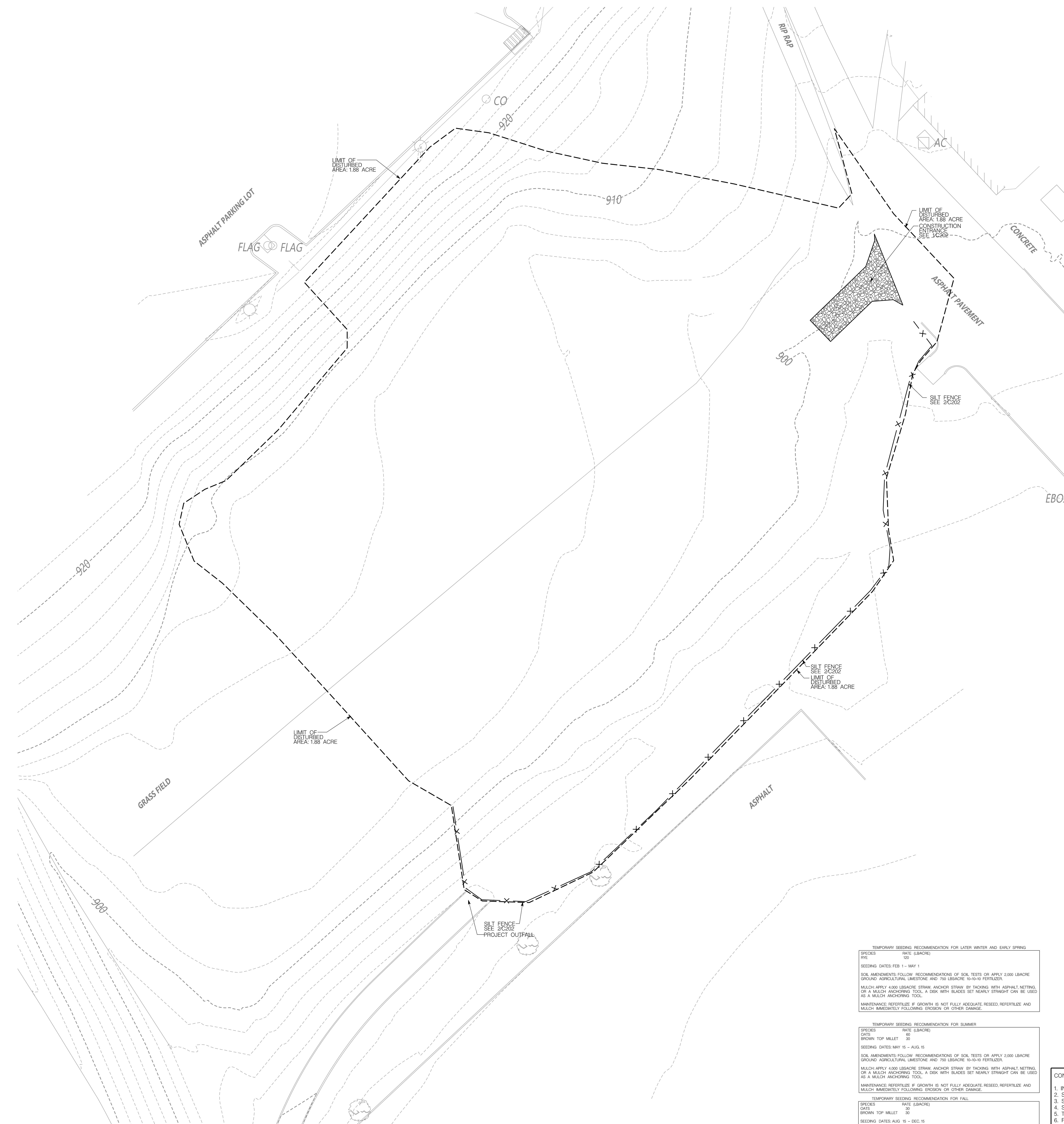

N

SCALE

0 20 40 FEET

SCALE: 1" = 20'

LEGEND:

EXISTING	PROPOSED	
535	535	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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		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 NAVD88.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY S&ME DATED 09/05/2023. 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 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 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 SOLUABLE 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.

TEMPORARY SEEDING RECOMMENDATION FOR LATER WINTER AND EARLY SPRING

SPECIES	RATE (LB/ACRE)
RYE	120

SEEDING DATES: FEB 1 – MAY 1

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATION FOR SUMMER

SPECIES	RATE (LB/ACRE)
OATS	60
BROWN TOP MILLET	30

SEEDING DATES: MAY 15 – AUG. 15

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATION FOR FALL

SPECIES	RATE (LB/ACRE)
OATS	30
BROWN TOP MILLET	30

SEEDING DATES: AUG 15 – DEC. 15

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE 10-10-10 FERTILIZER.

MULCH: APPLY 4,000 LBS/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC CRIMSON CLOVER IN LATE FEBRUARY OR EARLY MARCH.

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 CLOSEOUT/LONG TERM MAINTENANCE

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402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

WILLIAM N. ROBINSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00101025
STATE OF TENNESSEE
10-17-2023

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

SHEET DESCRIPTION

EROSION CONTROL - 1

C103

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/16/2021 3:06:29 PM

N

SCALE

0 20 40 FEET

SCALE: 1" = 20'

LEGEND:

EXISTING	PROPOSED	
535	535	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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		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 NAVD88.
2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY S&ME DATED 09052023. 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 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 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 SOLUABLE 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.

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	RATE/MIX (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	RATE/MIX (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

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10-17-2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

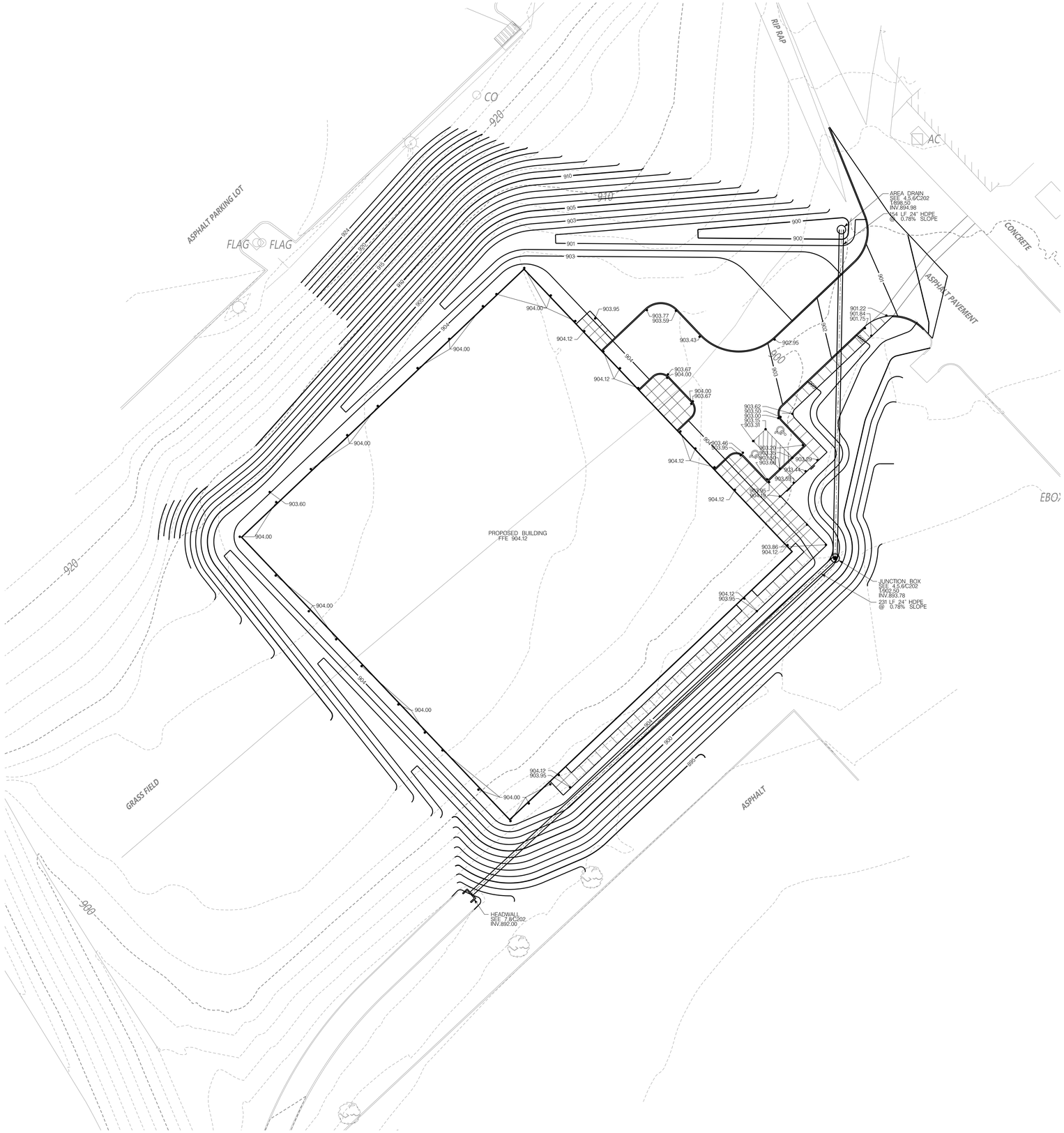
SHEET DESCRIPTION

EROSION CONTROL - 2

C104

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/16/2021 3:06:29 PM



N

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0 20 40 FEET

SCALE: 1" = 20'

LEGEND:

EXISTING	PROPOSED	
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535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
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NA	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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA		SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

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10-17-2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

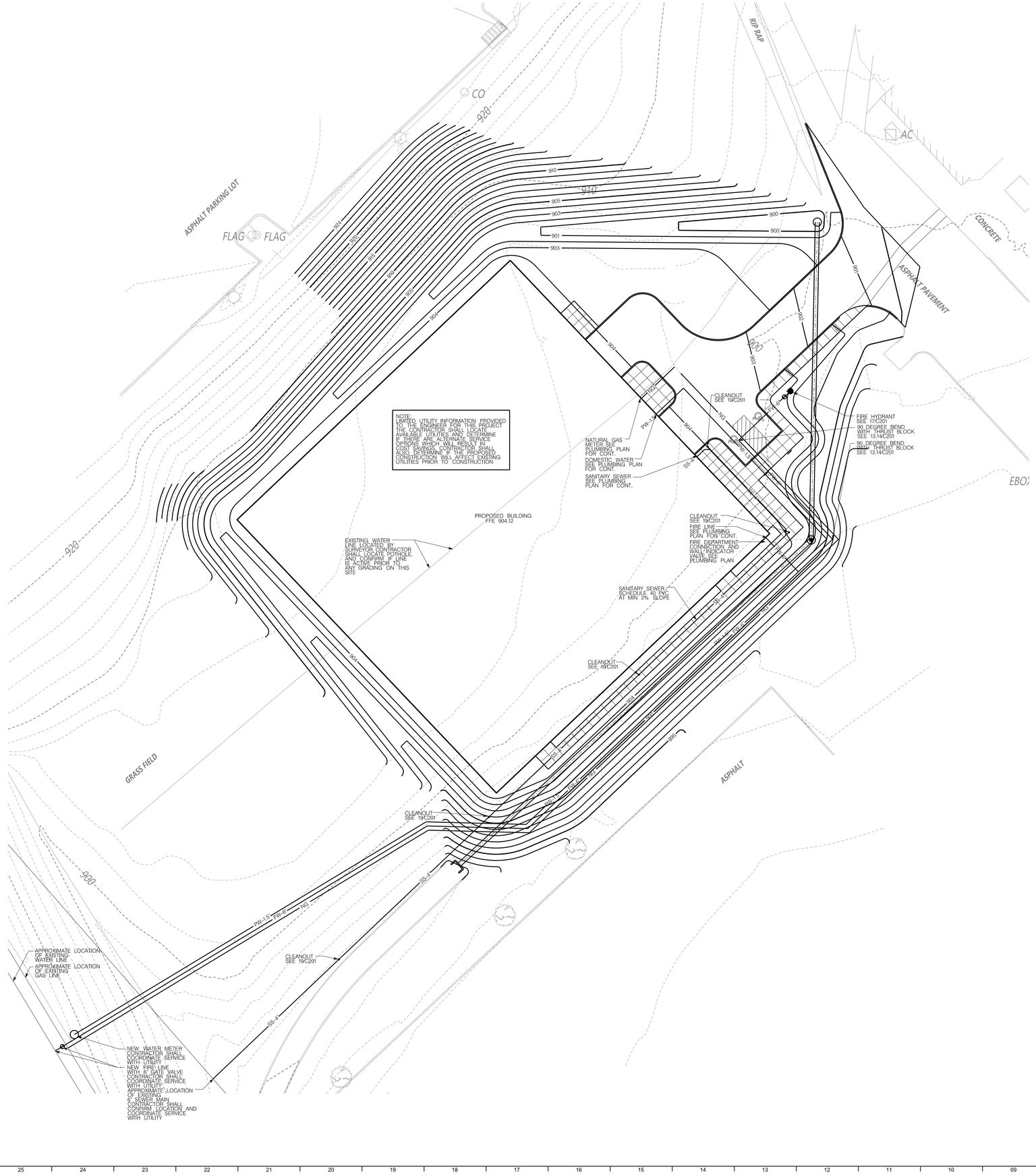
SHEET DESCRIPTION

SITE GRADING PLAN

C105

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/16/2021 3:06:29 PM



N

SCALE

0 20 40 FEET

SCALE: 1" = 20'

LEGEND:

EXISTING	PROPOSED	
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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
W	W	WATER METER
	NA	FIRE HYDRANT
NA		SURFACE FLOW
NA	S X	SILT FENCING
		CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SITE UTILITY NOTES

1. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY S&ME DATED 09/05/2023. 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.
2. 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.
3. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING. CONTRACTOR SHALL PAY ALL FEES.
4. ALL NECESSARY INPSPECTIONS 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.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 36" ON WATER LINES AND 2 FEET ON SEWER LINES.
6. 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.
7. WATER LINES SHALL BE AS FOLLOWS:
   1–3" WATER LINE: PEX (ASTM F876 AND AWWA C904)
   PIPE SIZES 4 INCHES AND LARGER: C900 WATER PIPE
8. 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 C151), FOR PIPES GREATER THAN 12 FEET DEEP.
9. 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.
10. GAS LINES SHALL BE SIZED, LOCATED, AND INSTALLED BY LOCAL UTILITY PROVIDER. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES.
11. REFER TO ARCHITECTURAL/MEP PLANS FOR TIE IN OF ALL UTILITIES.
12. REFER TO ARCHITECTURAL/MEP PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
13. FIRE PROTECTION SERVICE SHALL BE BY NEW FIRE HYDRANT AS DEPICTED ON THIS PLAN.
14. 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.
15. SEWER LINES SHALL HAVE A MINIMUM 6 INCHES OF STONE BEDDING AND BACKFILL AROUND THE CIRCUMFERENCE OF THE PIPE (TYPE 57 OR 67), UNDER ALL ROADS AND PAVED AREAS, WATER AND SEWER MAINS MUST BE STONE BACKFILLED FULL DEPTH TO PAVEMENT SUBGRADE.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION, TAP, USE, AND OTHER FEES REQUIRED TO CONNECT WATER, SEWER, AND GAS.
17. 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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10-17-2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

SHEET DESCRIPTION
SITE UTILITY PLAN

C106

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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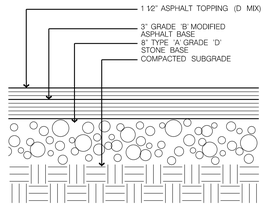
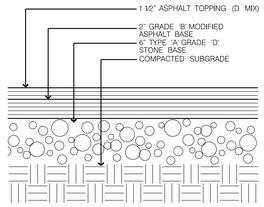


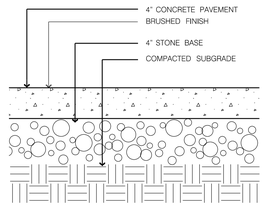
1 C201 HEAVY DUTY PAVING SECTION

NOT TO SCALE



2 C201 LIGHT DUTY PAVING SECTION

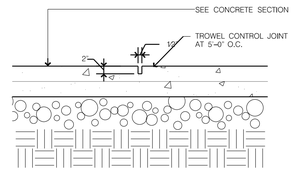
NOT TO SCALE



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

3 C201 TYPICAL SIDEWALK SECTION

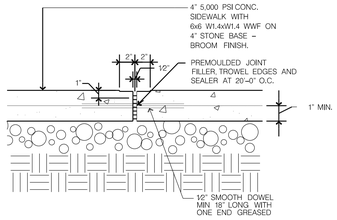
NOT TO SCALE



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

4 C201 CONTROL JOINT DETAIL

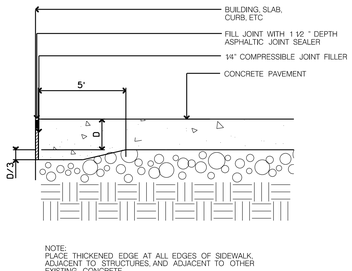
NOT TO SCALE



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

5 C201 EXPANSION JOINT DETAIL

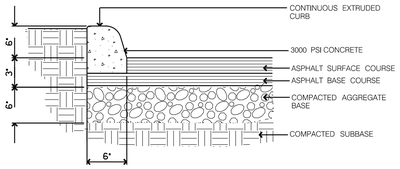
NOT TO SCALE



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

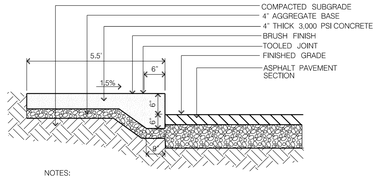
6 C201 THICKENED EDGE DETAIL

NOT TO SCALE



7 C201 TYPICAL CURB

NOT TO SCALE



NOTES:

PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 30' MAX CENTERS. EQUALLY SPACE 1/4" 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 12:1 IN ACCORDANCE WITH ADA REQUIREMENTS.

8 C201 SIDEWALK WITH INTEGRAL CURB

NOT TO SCALE

9 C201 ADA SIDE RAMP DETAIL

NOT TO SCALE

10 C201 TYPICAL PARKING SPACE DETAIL

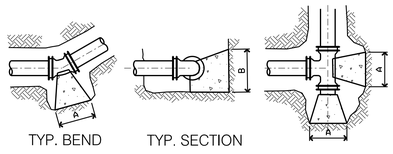
NOT TO SCALE

11 C201 HANDICAP SIGN

NOT TO SCALE

12 C201 ACCESSIBILITY SYMBOL

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 2000 PSF SOIL BEARING PRESSURE. IF WEAK (LESS THAN 3000 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.)

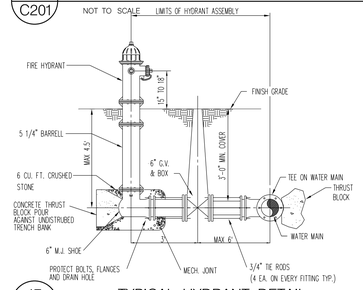
13 C201 THRUST BLOCK DETAIL

NOT TO SCALE

	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"

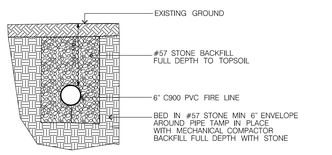
14 C201 THRUST BLOCK TABLE

NOT TO SCALE



17 C201 TYPICAL HYDRANT DETAIL

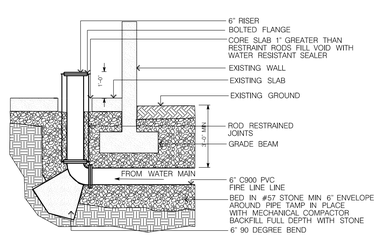
NOT TO SCALE



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

18 C201 FIRE LINE TRENCH DETAIL

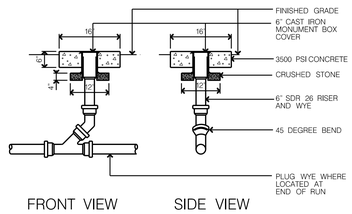
NOT TO SCALE



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

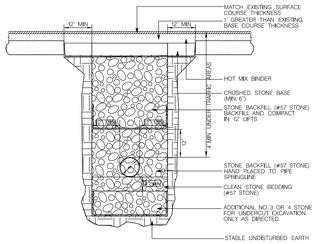
15 C201 FIRE LINE ENTRY DETAIL

NOT TO SCALE



19 C201 SEWER CLEANOUT

NOT TO SCALE



16 C201 SEWER PIPE BEDDING UNDER PAVEMENT

NOT TO SCALE

DIA
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ARCHITECTS + INTERIORS + PLANNING
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ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

WILLIAM N. ROBINSON
REGISTERED ENGINEER
10/17/2023
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

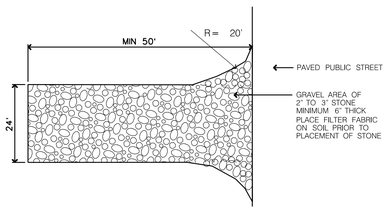
SHEET DESCRIPTION

SITE DETAILS - 1

C201

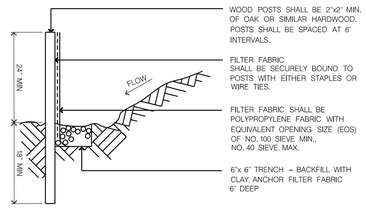
PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/19/2021 3:06:29 PM



1 C202 CONSTRUCTION ENTRANCE DETAIL

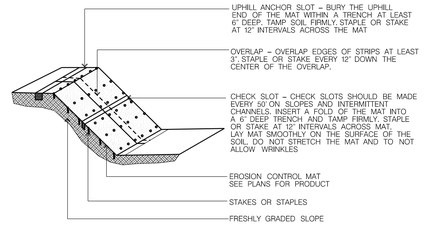
NOT TO SCALE



NOTE: FILTER FABRIC FENCE TO BE PLACED PRIOR TO START OF ROUGH GRADING

2 C202 SILT FENCE DETAIL

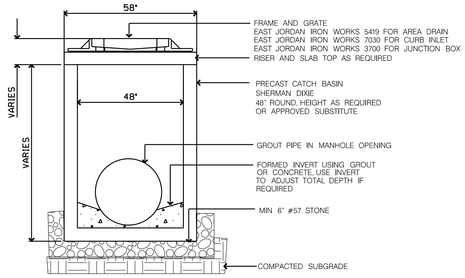
NOT TO SCALE



NOTES:
FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS. IN THE EVENT OF CONFLICT IN REQUIREMENTS, USE THE MORE RESTRICTIVE REQUIREMENT.

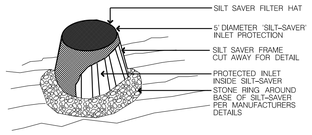
3 C202 EROSION MAT INSTALLATION

NOT TO SCALE



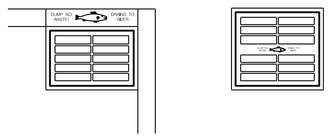
4 C202 48" ROUND CATCH BASIN DETAIL

NOT TO SCALE



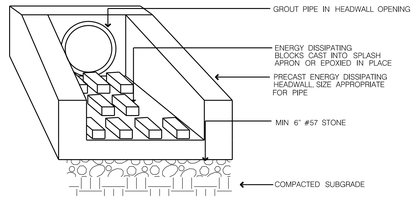
5 C202 INLET PROTECTION DETAIL

NOT TO SCALE



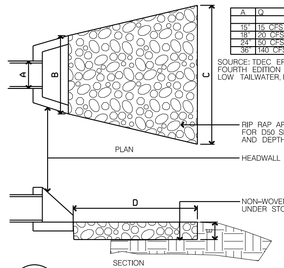
6 C202 ENVIRONMENTAL MESSAGE DETAIL

NOT TO SCALE



7 C202 ENERGY DISSIPATING HEADWALL DETAIL

NOT TO SCALE



A	Q	D50	TDOT	B	C	D	E
15"	15 CFS	7"	A-3	3.75'	19.75'	16'	20'
18"	20 CFS	7"	A-3	4.5'	21.5'	17'	20'
24"	50 CFS	12"	B	6'	32'	26'	27'
36"	140 CFS	18"	C	9'	49'	40'	40'

SOURCE: TDEC EROSION AND SEDIMENT CONTROL HANDBOOK FOURTH EDITION AUGUST 2012
LOW TAILWATER, INTERMEDIATE VALUE

8 C202 LOW TAILWATER OUTLET PROTECTION DETAIL

NOT TO SCALE

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REGISTERED ARCHITECT
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STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

SHEET DESCRIPTION

SITE DETAILS - 2

C202

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

7/19/2021 3:06:29 PM

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 CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.

1.04 THE STRUCTURE IS DESIGNED FOR A COMPETED CONDITION ONLY, AND THEREFORE REQUIRED TEMPORARY SUPPORT BRACING DURING CONSTRUCTION. THE STRUCTURE SHALL BE CONSIDERED STABLE WHEN : ALL THE FRAMING HAS BEEN ERECTED AND CONNECTED AS SHOWN ON THE DESIGN AND SHOP FABRICATION DRAWINGS, SLAB, FLOOR, AND ROOF DIAPHRAGMS ARE COMPLETELY ATTACHED AND CURED AND THE FOOTINGS HAVE BEEN COMPLETELY BACKFILLED. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.05 COORDINATE AND VERIFY ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

1.06 FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

1.07 REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, ASSEMBLY REQUIREMENTS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY OF CONSTRUCTION.

1.08 CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

1.09 CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH THE MECHANICAL AND ELECTRICAL EQUIPMENT DETAILS AND APPROVED SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT THE BUILDING.

1.10 CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL REMOVAL/CLEARANCE OF ANY REQUIRED SHORING OR BRACING OF STRUCTURES.

P1

DESIGN LOADS : 2012 IBC

DEAD LOADS:
ROOF _ _ _ _ 2.68 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 (MAIN WIND FORCE RESISTING SYSTEM)
1.15 (COMPONENTS AND CLADDING)
ENCLOSURE CLASSIFICATION _ _ _ _ ENCLOSED
INTERNAL PRESSURE COEFFICIENT _ _ _ _ +/- 0.18
COMPONENTS AND CLADDING _ _ _ _ WALL INTERIOR ZONE
ROOF: ZONE 1 +16.0/-16.0 PSF
ZONE 2 +16.0/-50.9 PSF
ZONE 3 +16.0/-64.2 PSF

WALL INTERIOR ZONE	
<10 SF	+27.6/-29.9 PSF
100 SF	+23.4/-25.8 PSF
200 SF	+22.2/-26.2 PSF
>500 SF	+20.6/-22.9 PSF

WALL END ZONE	
<10 SF	+27.6/-36.9 PSF
30 SF	+25.6/-33.0 PSF
50 SF	+24.7/-31.1 PSF
>100 SF	+23.4/-28.7 PSF

SEISMIC LOADS:
RISK CATEGORY _ _ _ _ II
SEISMIC IMPORTANCE FACTOR, I_e _ _ _ _ 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS _ _ _ _ $S_S = 50.7\%$
_ _ _ _ $S_1 = 12.1\%$
SITE CLASS _ _ _ _ C
DESIGN SPECTRA RESPONSE ACCELERATION PARAMETERS _ _ _ _ $S_{DS} = 0.471$
_ _ _ _ $S_{D1} = 0.190$
SEISMIC DESIGN CATEGORY _ _ _ _ C
BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC
ANALYSIS PROCEDURE _ _ _ _ EQUIVALENT LATERAL FORCE
RESPONSE MODIFICATION COEFFICIENT, R = _ _ _ _ 3.00
SEISMIC RESPONSE COEFFICIENT, C_S = _ _ _ _ 0.16
DESIGN BASE SHEAR, V = _ _ _ _ 61.46k

SNOW LOADS:
GROUND SNOW LOAD, Pg _ _ _ _ 10 PSF
RAIN ON SNOW SURCHARGE _ _ _ _ 5 PSF (BALANCED LOAD)

ALLOWABLE SOIL BEARING PRESSURE _ _ _ _ 2,500 PSF (DESIGN PURPOSES)

FOUNDATION NOTES :

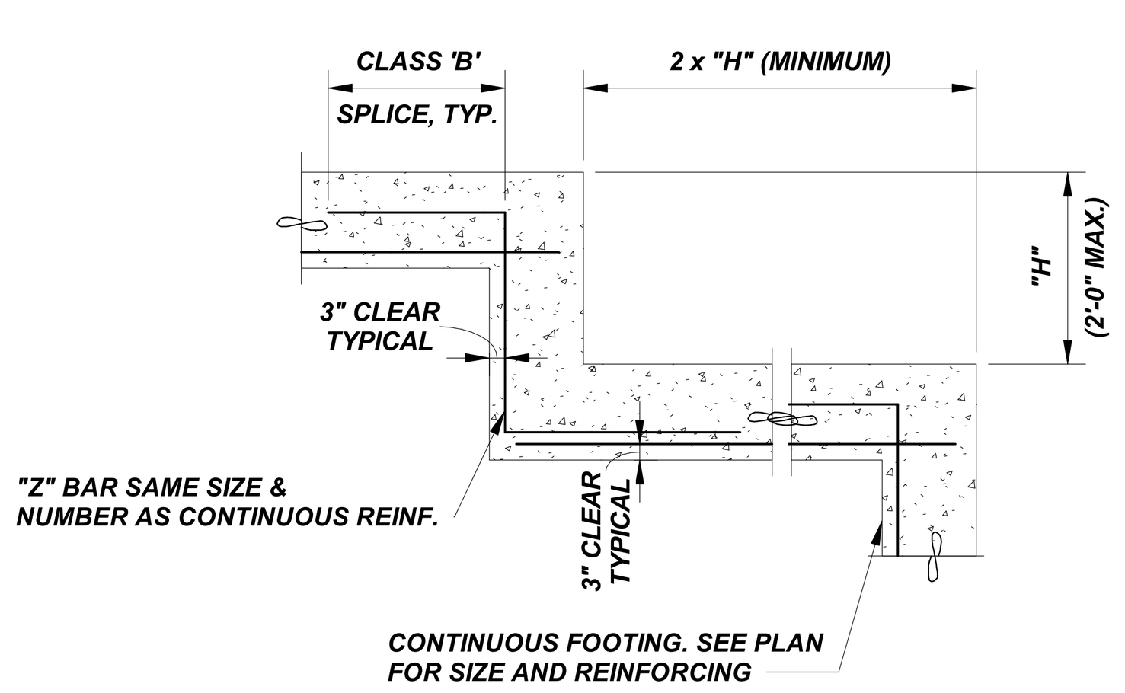
2.01 THE DESIGN OF FOUNDATIONS, RETAINING WALLS, AND SLABS ON GRADE ARE BASED ON THE RECOMMENDATIONS OF THE SOILS REPORT FROM S&ME (PROJECT NO. 23430249) DATED AUGUST 9, 2023.

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. ALL FOOTINGS SHALL REST EITHER ON UNDISTURBED SOIL OR NEWLY PLACED STRUCTURAL FILL. OWNER OR CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL VERIFY ALLOWABLE SOIL BEARING CAPACITY PREPARATION REQUIREMENTS INCLUDING SUBGRADE IMPROVEMENT AND STRUCTURAL FILL PLACEMENT REQUIREMENTS. A MANUALLY OPERATED VIBRATOR SLED OR TAMPER SHOULD BE USED TO DENSIFY ANY SOILS IN THE BOTTOM OF THE FOOTING TRENCHES LOOSENED DURING THE EXCAVATION PROCESS.

2.03 SIDES OF THE FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS : SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.04 CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

2.05 WHERE FOOTING STEPS ARE NECESSARY THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.



TYPICAL FOOTING STEP DETAIL
NOT TO SCALE

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.

2.08 COORDINATE FOOTING STEPS WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

2.09 SOIL SUPPORTED SLABS ON GRADE ARE DESIGNED TO BEAR ON A SUBGRADE WITH A MINIMUM MODULUS OF SUBGRADE REACTION OF 100 PCI. WHERE POSSIBLE. SEE GEOTECHNICAL REPORT FOR AREAS WHERE MINIMUM MODULUS OF SUBGRADE REACTION WILL DIFFER.

2.10 WHERE FOUNDATION EXCAVATIONS MUST REMAIN OPEN AND ARE SUBJECT TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2,000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.

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.

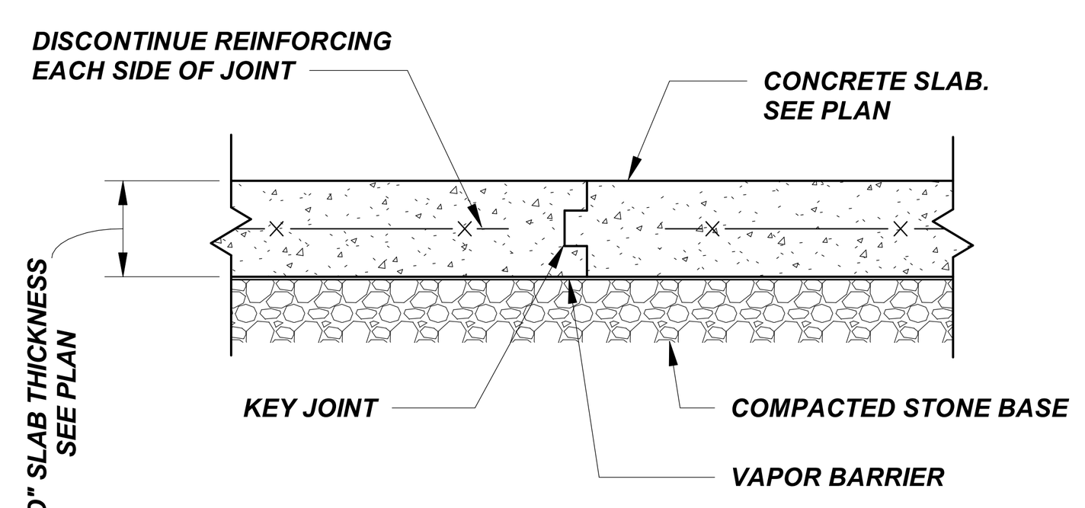
3.02 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
SPREAD FOOTINGS _ _ _ _ 3,000 PSI
INTERIOR SLAB ON GRADE _ _ _ _ 4,000 PSI U.N.O.
FOUNDATION WALLS _ _ _ _ 4,000 PSI
ALL OTHER _ _ _ _ 4,000 PSI

ALL EXTERIOR CONCRETE SHALL HAVE 5% - 7% ENTRAINED AIR, UNLESS NOTED OTHERWISE.

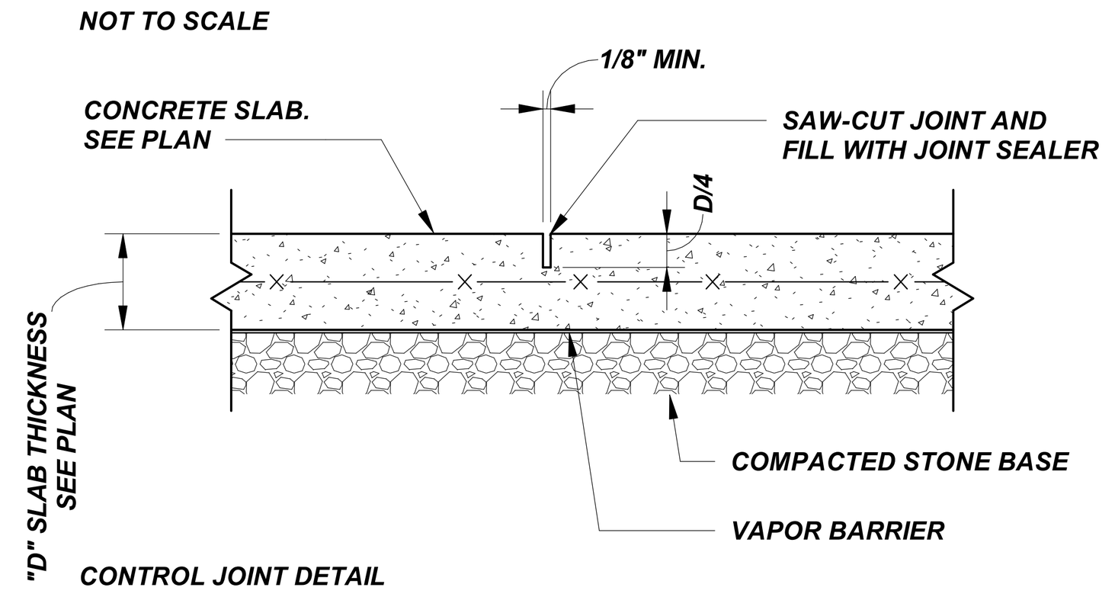
3.03 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY A TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES WITH MATERIALS TO BE EMPLOYED IN ACCORDANCE WITH ACI 316 AND 301.

3.04 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

3.05 DETAIL CONSTRUCTION AND CONTROL JOINTS AS SHOWN IN DETAILS BELOW :



CONSTRUCTION JOINT DETAIL
NOT TO SCALE



CONTROL JOINT DETAIL
NOT TO SCALE

3.06 CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4".

3.07 DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED, REVIEWED AND APPROVED. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

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. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

3.10 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICE WHERE POSSIBLE. USE FULL TENSION SPLICE (CLASS"B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

3.11 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE.

CONCRETE AGAINST EARTH (NOT FORMED) _ _ _ _ 3"

FORMED CONCRETE EXPOSED TO EARTH OR WEATHER
#6 THROUGH #18 BARS _ _ _ _ 2"
#5 BARS AND SMALLER _ _ _ _ 1 1/2"
COVER FOR TOP BARS IN CONCRETE FOOTINGS SHALL BE 2"

CONCRETE NOT EXPOSED TO EARTH OR WEATHER
SLABS AND WALLS _ _ _ _ 1"

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:

A. FORMS SHALL CONFORM TO SHAPE, FORM, AND LINES ON DRAWINGS.
B. ADEQUATE BRACING SHALL BE USED.
C. FORMS SUPPORTED ON GROUND SHALL HAVE ADEQUATE MUD SILLS.
D. QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST, AS REQUIRED, ALL SHORES DURING CONCRETE PLACING.
E. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS.

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.

3.19 SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FILL AND REINFORCING REQUIRED FOR CONCRETE ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

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.

3.23 WELDED WIRE FABRIC (WWF) SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END. WWF SHALL CONFORM TO ASTM A185 AND HAVE A MINIMUM ULTIMATE STRENGTH OF 75,000 PSI.

3.24 EMBEDDED STRUCTURAL STEEL SHALL BE ASTM A36. ANCHOR BOLTS SHALL BE A36 THREADED RODS WITH CUT THREADS AND NUTS CONFORMING TO ASTM A563. GALVANIZE ALL ANCHOR BOLTS AND NUTS EXPOSED TO WEATHER AND WHERE INDICATED.

3.25 SEE SCHEDULE BELOW FOR REINFORCING EMBEDMENT/SPLICE LENGTHS :

REINFORCING EMBEDMENT/SPLICE LENGTHS

SIZE	MINIMUM SPLICE LENGTH (inches)
3	19
4	25
5	31
6	37

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 f 'm= 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.

4.03 ALL FILLED CELL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED WITH GROUT.

4.04 UNITS SHALL BE LAID IN RUNNING BOND WITH FULL FACE SHELL MORTAR BEDS. ONLY TYPE M OR S MORTAR SHALL BE USED. ALL HEAD JOINTS SHALL BE LAID CONTINUOUSLY AND FILLED WITH MORTAR FOR A DISTANCE FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. CROSS WEBS ADJACENT TO VERTICAL CORES TO BE FILLED WITH GROUT AND IN THE STARTING COURSE ON FOUNDATIONS SHALL BE FULLY BEDDED WITH MORTAR TO PREVENT LEAKAGE OF GROUT. BOND OF MASONRY UNITS SHALL BE PROVIDED BY LAPPING UNITS IN ALTERNATE COURSES.

4.05 ALL MORTAR FINS OR OTHER OBSTRUCTIONS OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF CELL WALLS.

4.06 THE REINFORCED CELLS SHALL BE GROUTED USING LOW LIFT GROUTING PROCEDURES PER NCMA-TEK 23A (WALL HEIGHT NOT GREATER THAN 5 FT.). BEFORE GROUT PLACEMENT THE CONTRACTOR SHALL PROVIDE PREFAB REBAR POSITIONERS LAID WITH THE UNITS TO PREVENT DISPLACEMENT DURING GROUTING. PROVIDE MINIMUM 48 BAR DIAMETER LAPS AT TOP OF LIFTS. POSITION BARS IN CENTER OF WALL UNLESS NOTED OTHERWISE.

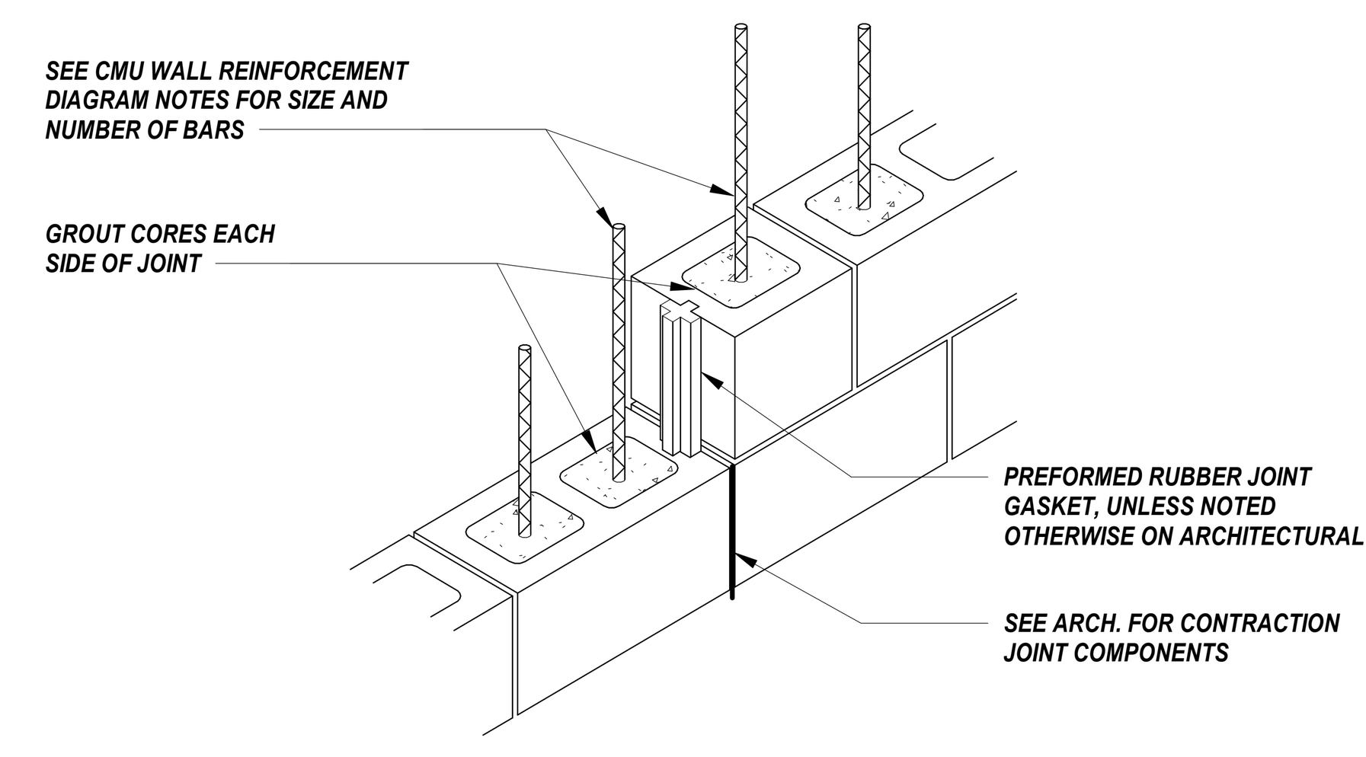
4.07 DURING PLACEMENT, THE GROUT SHALL BE MECHANICALLY VIBRATED TO ENSURE COMPLETE FILLING OF THE GROUT SPACE. WHEN GROUTING IS STOPPED FOR 1 HR. OR LONGER BETWEEN LIFTS, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR 1 1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.

4.08 PROVIDE AND INSTALL BRACING THAT WILL ENSURE STABILITY OF MASONRY DURING CONSTRUCTION. THE MASONRY IS DESIGNED FOR A COMPLETED CONDITION ONLY. THE MASONRY IS CONSIDERED COMPLETE WHEN IT HAS BEEN CONSTRUCTED AS SHOWN ON THE DRAWINGS AND CURED TO THE FULL 28 DAY STRENGTH AND LATERAL SUPPORT OR DIAPHRAGMS HAVE BEEN ATTACHED.

4.09 THE CONTRACTOR SHALL COMPLY TO COLD AND HOT WEATHER CONSTRUCTION PROCEDURES WHEN AMBIENT TEMPERATURE FALLS BELOW 40° F OR EXCEEDS 90°F RESPECTIVELY. REFER TO ACI 530.1/ASCE 6 FOR CONSTRUCTION PROCEDURES.

4.10 PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF ALL REINFORCING BARS. THESE DRAWINGS SHALL SHOW THE REINFORCING BAR LOCATIONS IN PLAN AND ELEVATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

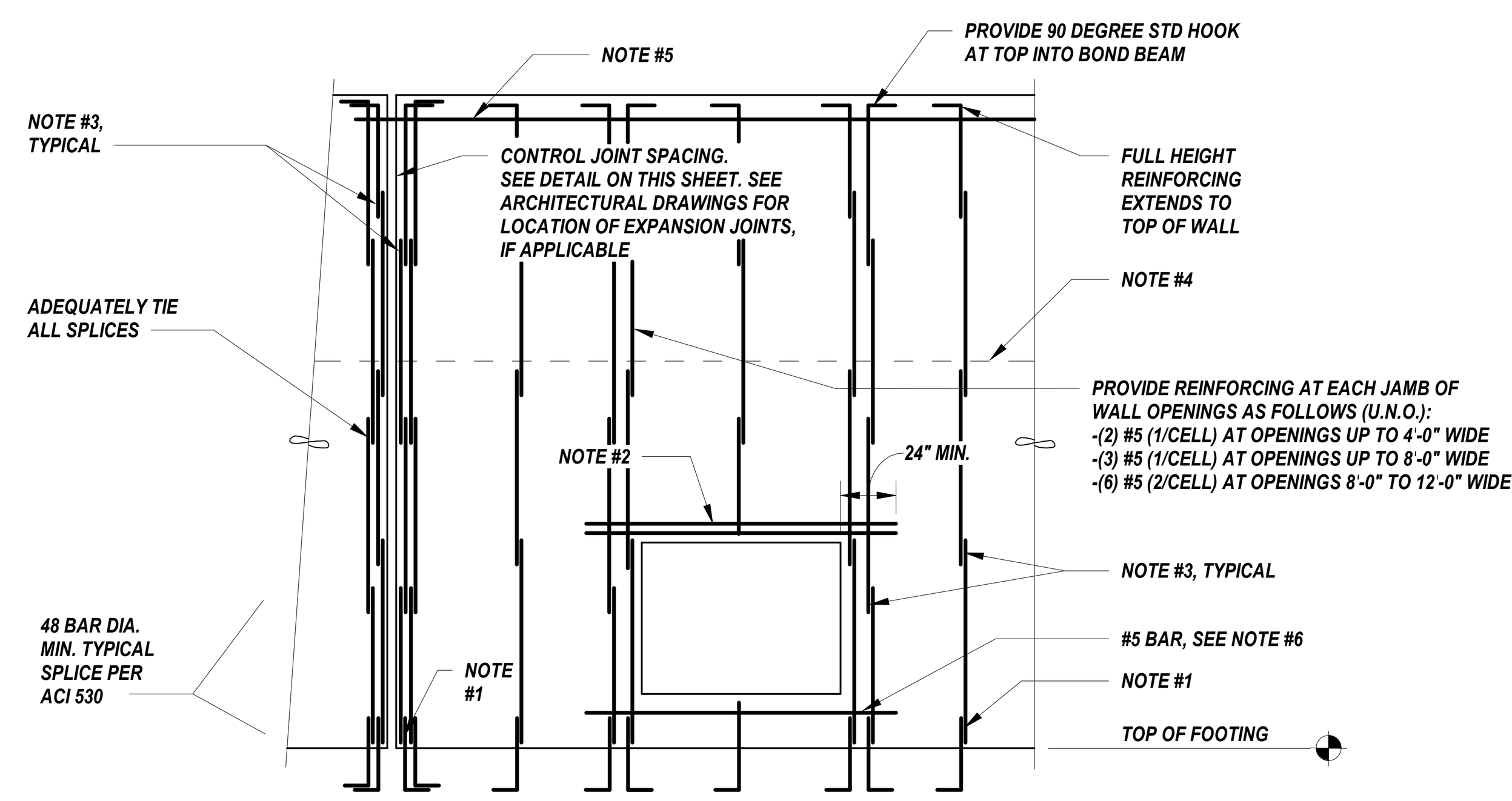
4.11 MASONRY CONTROL JOINTS TO BE SPACED AT A MAXIMUM OF 3 TIMES THE WALL HEIGHT OR 25'-0", WHICHEVER IS LESS. REFER TO TYPICAL CMU CONTROL JOINT DETAIL BELOW.



TYPICAL CMU CONTROL JOINT DETAIL
NOT TO SCALE

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. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT. VERTICAL MASONRY WALL REINFORCING SHALL BE #4 AT 48" O.C. UNLESS NOTED OTHERWISE. PROVIDE (1) #4 BARS IN LAST TWO CELLS AT ALL WALL CORNERS, INTERSECTIONS, ENDS OF WALLS, EACH SIDE OF CONTROL JOINT, AND ON EACH SIDE OF OPENINGS, SEE BOND BEAM INTERSECTION AND BOND BEAM CORNER DETAILS BELOW. LAP REINFORCING 48 BAR DIAMETERS. VERTICAL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A615.

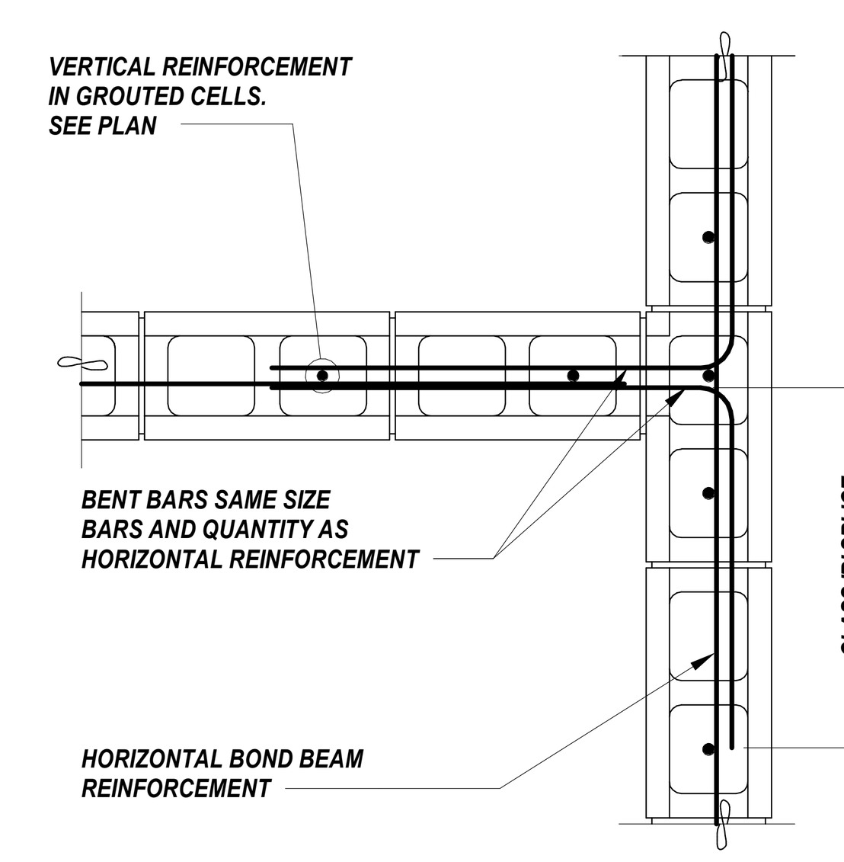
2. LINTEL REINFORCEMENT, REFER TO CMU LINTEL SCHEDULE ON HEADER PLANS SIZE, LOCATION, AND QUANTITY OF REINFORCEMENT.

3. SPLICES IN ADJACENT BARS SHALL BE STAGGERED AND ARRANGED SO THAT NOT MORE THAN 1/2 OF THE TOTAL NUMBER OF BARS ARE SPLICED AT ANY ONE HEIGHT. VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'-0" TO 8'-0" LENGTHS.

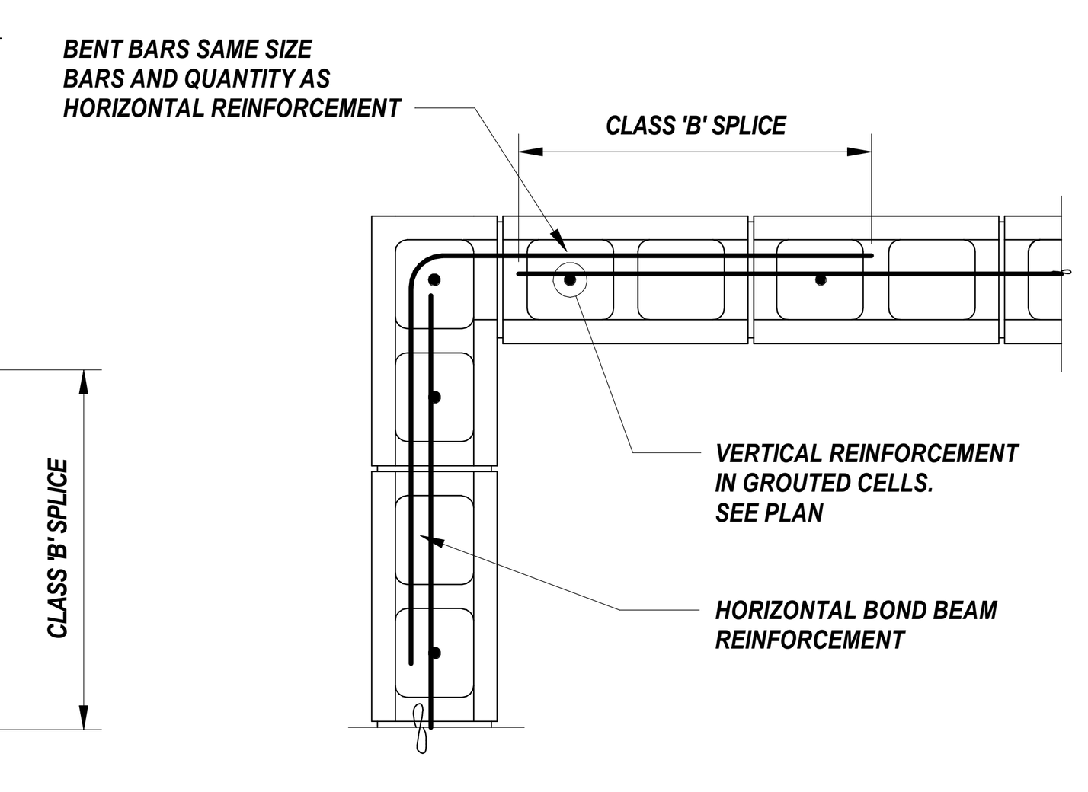
4. HORIZONTAL WALL REINFORCING SHALL BE GALVANIZED LADDER TYPE AT 16" O.C. VERTICALLY ABOVE GRADE AND 8" O.C. BELOW GRADE, UNLESS OTHERWISE NOTED ON PLANS AND DETAILS. DISCONTINUE AT CONTROL JOINTS. USE PREFABRICATED TEE AND CORNER UNITS AT WALL INTERSECTIONS AND CORNERS. JOINT REINFORCING TO HAVE NO. 9 GAGE SIDE AND CROSS RODS. SIDE RODS OF ALL HORIZONTAL WIRE REINFORCEMENT SHALL LAP 12".

5. PROVIDE BOND BEAM AT TOP OF CMU WALLS. REINFORCE BOND BEAM WITH (1) #4 CONTINUOUS UNLESS NOTED OTHERWISE, GROUT SOLID. LAP 48 BAR DIAMETERS. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS, CORNER BARS SHALL LAP WITH HORIZONTAL REINFORCEMENT AND MATCH HORIZONTAL REINFORCING. DO NOT DISCONTINUE BOND BEAMS AT CONTROL JOINTS.

6. PROVIDE HORIZONTAL REINFORCING IN GROUTED BOND BEAM UNITS IN FIRST COURSE BELOW ALL OPENINGS. EXTEND THE HORIZONTAL REINFORCING NOT LESS THAN 2'-0" OR 48 BAR DIAMETERS BEYOND EACH FACE OF OPENINGS.



BOND BEAM INTERSECTION
NOT TO SCALE



BOND BEAM CORNER
NOT TO SCALE

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 OR 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:

MEMBER	SPECIES	GRADE	Fb	Fb
2x4	SYP	NO. 2	1,100 PSI	1,400,000 PSI
2x4	SPF	NO. 2	775 PSI	1,100,000 PSI
2x6	SYP	NO. 2	1,000 PSI	1,400,000 PSI
2x6	SPF	NO. 2	775 PSI	1,100,000 PSI
2x8	SYP	NO. 2	925 PSI	1,400,000 PSI
2x10	SYP	NO. 2	800 PSI	1,400,000 PSI
2x12	SYP	NO. 1	1,000 PSI	1,600,000 PSI
LVL	N/A	2.0E	2,900 PSI	2,000,000 PSI
LSL RIM BOARD	N/A	1.3E	1,700 PSI	1,300,000 PSI
PSL COLUMN	N/A	1.8E	2,400 PSI	1,800,000 PSI

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. ALL CONNECTORS SHALL BE GALVANIZED CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER, AND CONNECTORS SHALL HAVE A MINIMUM G185 COATING IN ACCORDANCE WITH ASTM A153.

5.03 CUTTING, NOTCHING, BORED HOLES IN STUD WALLS, RAFTER, ETC., SHALL BE DONE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE SECTION 2308.

5.04 ALL WOOD CONNECTIONS NOT SHOWN SHALL BE DETAILED PER THE INTERNATIONAL BUILDING CODE "FASTENING SCHEDULE" TABLE 2304.10.1.

5.05 ALL STEEL HARDWARE INCLUDING PLATES, NAILS, NUTS AND BOLTS SHALL BE HOT DIPPED GALVANIZED.

5.06 ALL STEEL IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE SEPARATED WITH 15# FELT.

P1

TFM # 03970-F

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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

SHEET DESCRIPTION
STRUCTURAL NOTES

S001

PROJECT DATE 2023-10-17
PROJECT NUMBER 23038

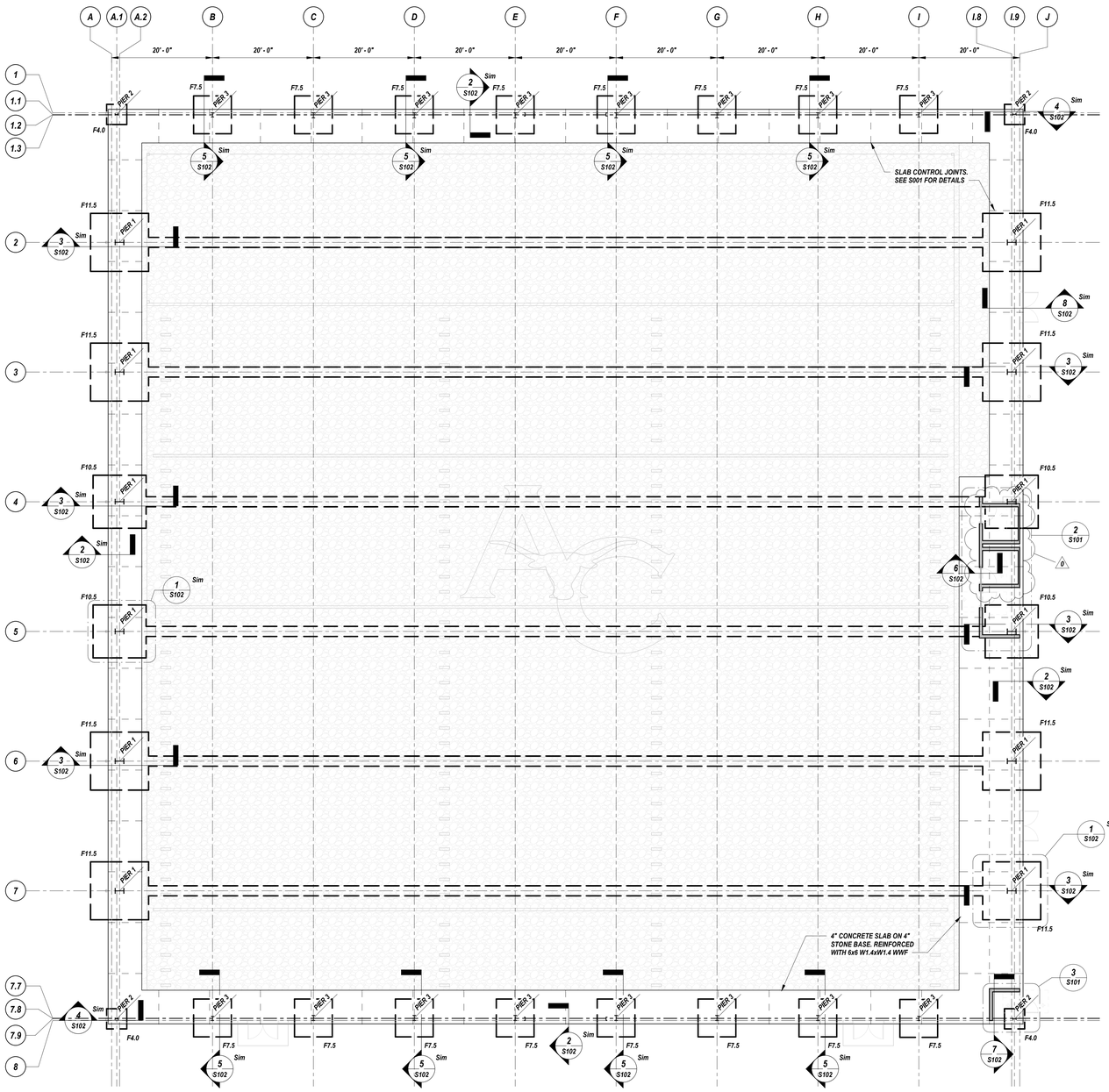
11/7/2023 12:15:17 PM

STRUCTURAL FOUNDATION NOTES

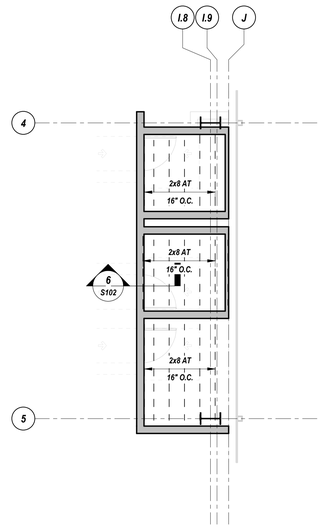
1.	VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS
2.	VERIFY ALL COLUMNS, COLUMN LAYOUT AND ANCHOR BOLT LAYOUT WITH THE PEMB MANUFACTURER
3.	VERIFY OPENINGS AND CANOPY LOCATIONS WITH ARCHITECTURAL DRAWINGS

STRUCTURAL FOUNDATION SCHEDULE

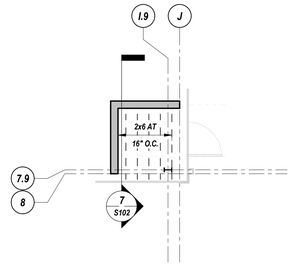
MARK	SIZE	REINFORCEMENT	ANCHOR BOLT EMBEDMENT
F4.0	4'-0" x 4'-0" x 1'-0"	(4) #5 EACH WAY, BOTTOM	6"
F7.5	7'-6"x7'-6"x1'-0"	7 #5 BARS TOP AND BOTTOM, EACH DIRECTION	8"
F10.5	10'-6"x10'-6"x2'-0"	10 #5 BARS TOP AND BOTTOM, EACH DIRECTION	15"
F11.5	11'-6"x11'-6"x2'-0"	11 #5 BARS TOP AND BOTTOM, EACH DIRECTION	18"



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



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



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

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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
0	BIDDING	2024-09-24

SHEET DESCRIPTION
FOUNDATION PLAN

P1

TFM # 03970-F

S101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23038

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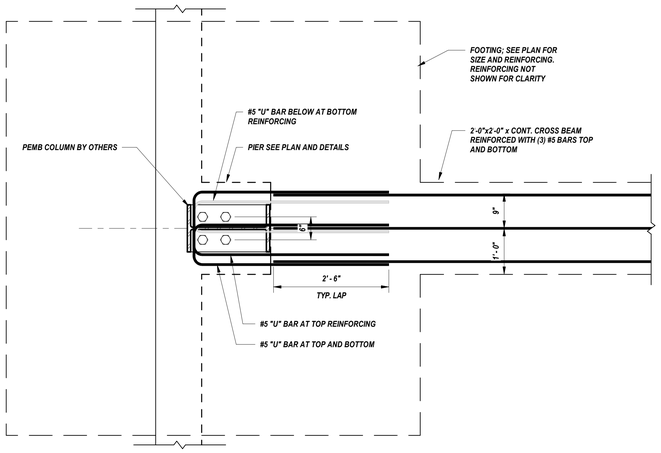
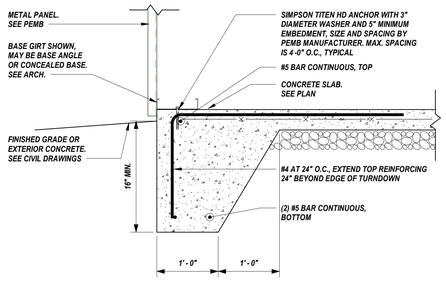


1 S102 **DETAIL - CROSS BEAM**
SCALE: NTS



2 S102 **SECTION**
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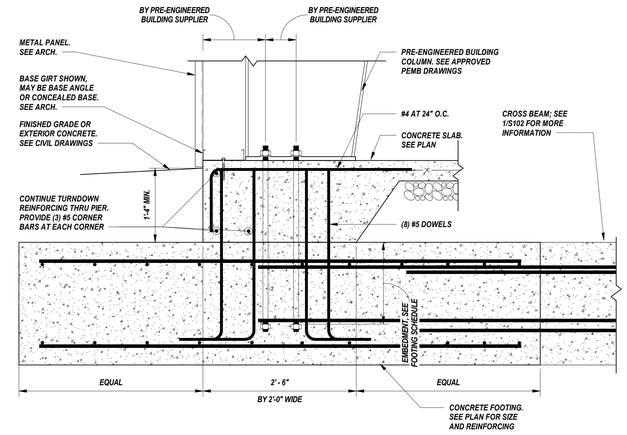

3 S102 **SECTION - PIER 1**
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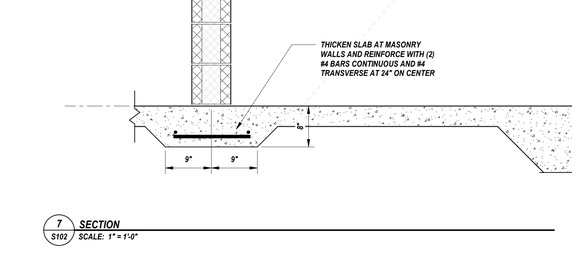

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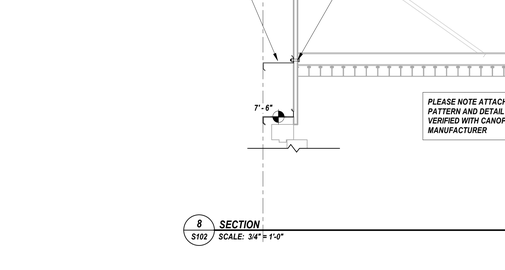
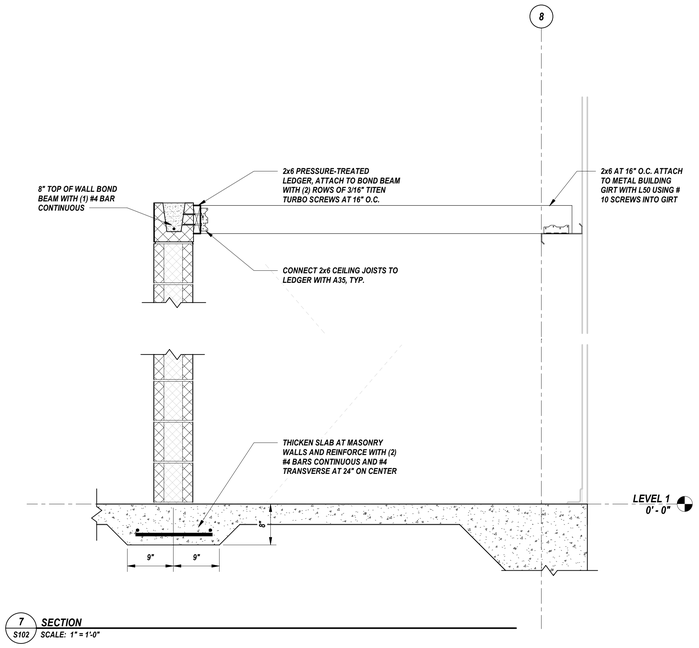


5 S102 **SECTION - PIER 3**
SCALE: 1" = 1'-0"

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



7 S102 **SECTION**
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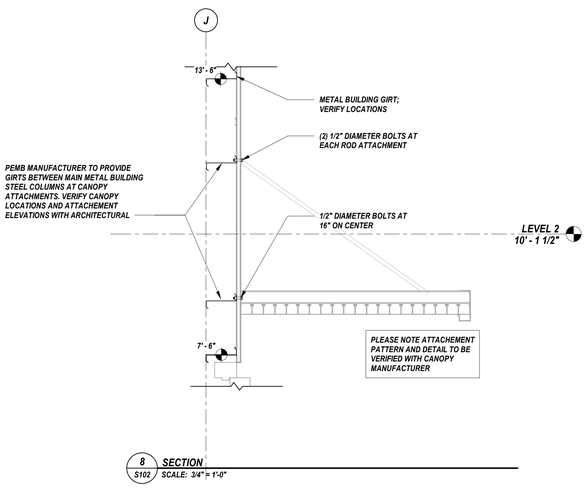

8 S102 **SECTION**
SCALE: 3/4" = 1'-0"

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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

SHEET DESCRIPTION
SECTIONS AND DETAILS

P1
TFM # 03970-F

S102

PROJECT DATE	PROJECT NUMBER
2023-10-17	23038

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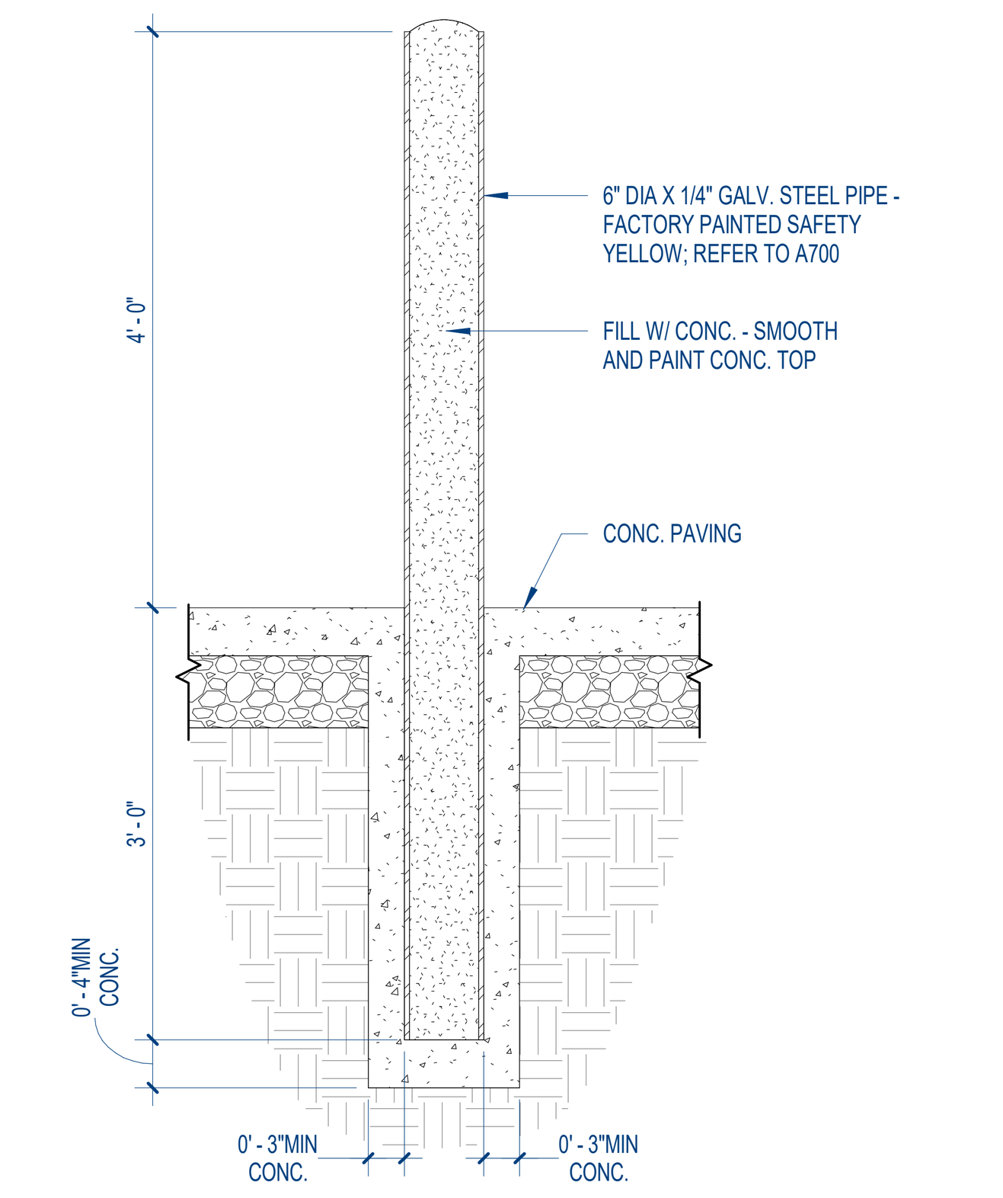


U08 TYP. BOLLARD DETAIL

3/4" = 1'-0"

GENERAL NOTES

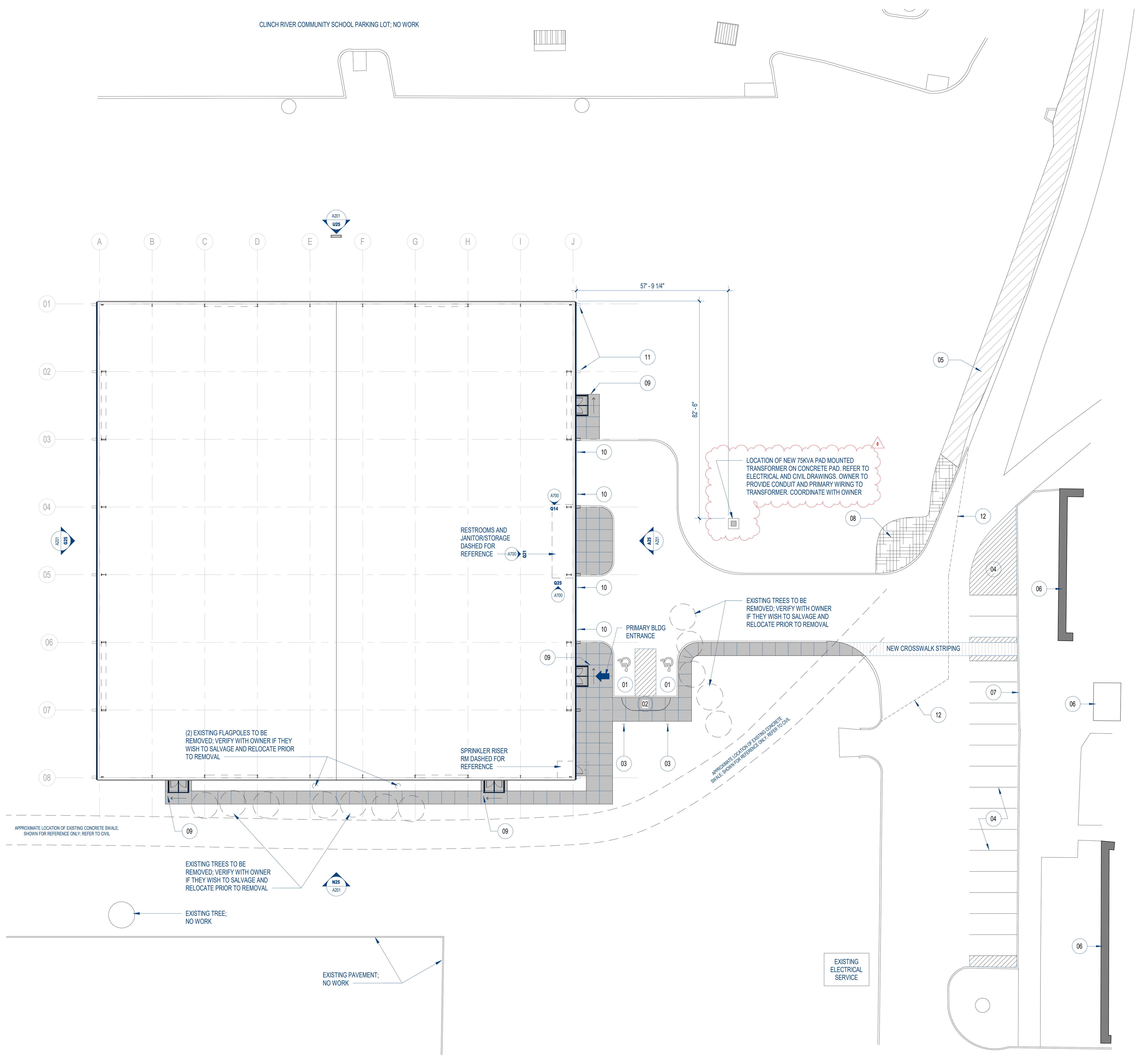
ARCH SITE PLAN

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 RIP RAP. FIELD VERIFY
06 EXISTING BUILDING; NO WORK.
07 EXISTING CURB; FIELD VERIFY. NO WORK.
08 RIP 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



A19 ARCH SITE PLAN

1" = 20'-0" NEW CONSTRUCTION

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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
0	BIDDING	2024-09-24

SHEET DESCRIPTION

ARCHITECTURAL SITE PLAN AND DETAILS

AS101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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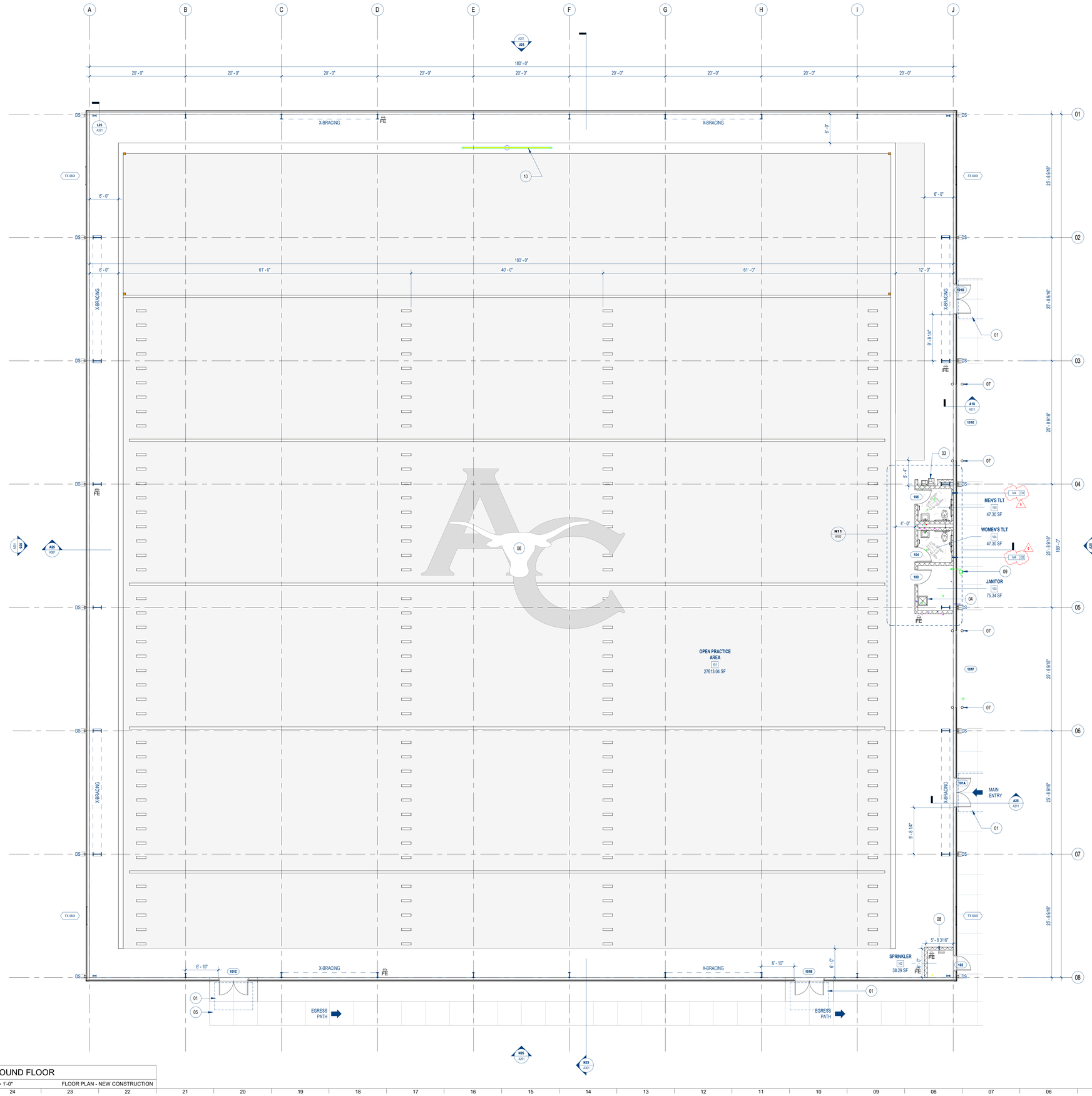


GENERAL NOTES

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 CONSTUCTION, 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 0" OR 8" 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
03 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.

TFM # 03970-F

TYPICAL WALL TYPE

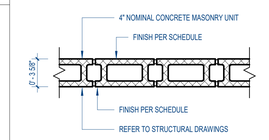
GRAPHIC LEGEND

M4

M4 C6

M4
4" MASONRY WALL

C6
HEIGHT, MINIMUM 6" ABOVE ADJACENT CEILING



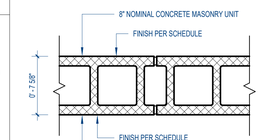
M8

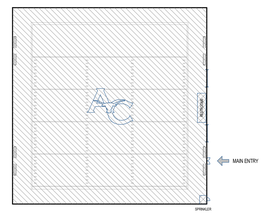
M8 C6

*ALL INTERIOR PARTITIONS TO BE M8 UNLESS NOTED OTHERWISE

M8
8" MASONRY WALL

C6
HEIGHT, MINIMUM 6" ABOVE ADJACENT CEILING





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AGRICULTURE
2024-09-24
TO LICENSE
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

SHEET DESCRIPTION

FIRST FLOOR PLAN

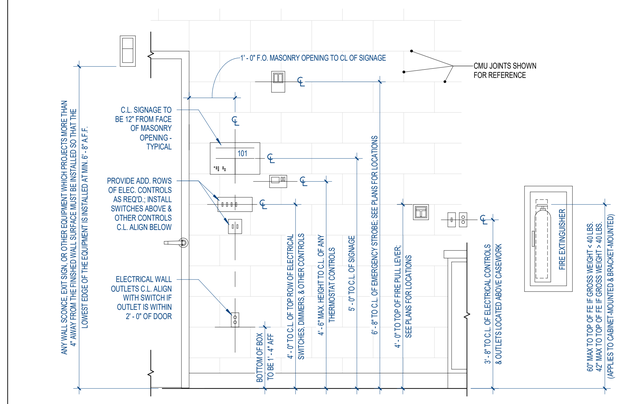
A101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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

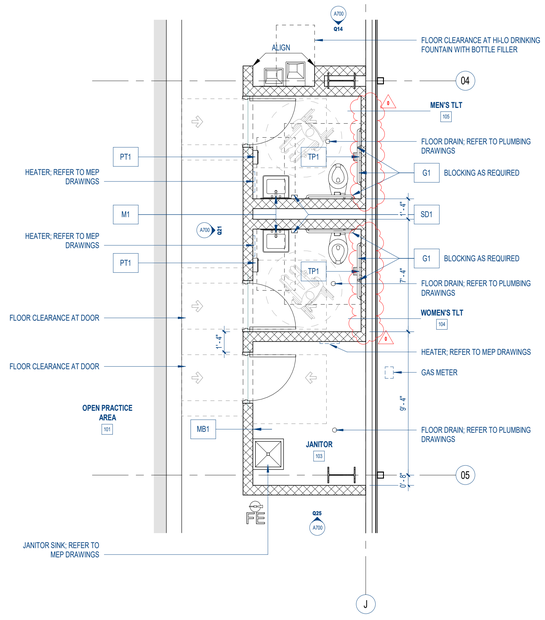
A04 KEY PLAN
NOT TO SCALE

9/24/2024 11:30:40 AM



J18 INTERIOR MOUNTING HEIGHT REQ'S.

3/4" = 1'-0" TYPICAL



N11 ENLARGED TOILET PLAN

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

GENERAL NOTES

ACCESSIBLE FIXTURES

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.

TFM # 03970-F

RESTROOM ACCESSORIES

M1

1. FRAME: STAINLESS-STEEL ANGLE, 0.05 INCH THICK
   a. CORNERS: MANUFACTURER'S STANDARD.
2. 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

1. MOUNTING: SURFACE MOUNTED.
2. MINIMUM CAPACITY: 400 C-FOLD OR 525 MULTIFOLD TOWELS.
3. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN)
4. LOCKSET: TUMBLER TYPE.

SD1

1. DESCRIPTION: AUTOMATIC DISPENSER WITH INFRARED SENSOR TO DETECT PRESENCE OF HANDS; BATTERY POWERED; DESIGNED FOR DISPENSING LIQUID SOAP.
2. MOUNTING: WALLMOUNTED NEAR LAVATORY.
3. LOW BATTERY INDICATOR: LED INDICATOR.
4. MATERIAL AND FINISH: STAINLESS STEEL, NO.4 FINISH (SATIN)

TP1

1. DESCRIPTION: DOUBLE-ROLL DISPENSER.
2. MOUNTING: SURFACE MOUNTED.
3. CAPACITY: DESIGNED FOR 5-INCH- (127-MM-) TISSUE ROLLS.
4. MATERIAL AND FINISH: STAINLESS STEEL, NO.4 FINISH (SATIN).

MB1

1. DESCRIPTION: UNIT WITH SHELF,HOOKS, HOLDERS
2. LENGTH: 36 INCHES (914MM)
3. MOP/BROOM HOLDERS
4. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN)

G1

1. MOUNNTING: FLANGES WITH CONCEALED FASTENERS.
2. MATERIAL: STAINLESS STEEL, 0.05 INCH (1.3MM) THICK.
   a. FINISH: SMOOTH, NO. 4 FINISH (SATIN).
3. OUTSIDE DIAMETER: 1-1/2 INCHES (38MM)
4. CONFIGURATION AND LENGTH: AS INDICATED ON DRAWINGS

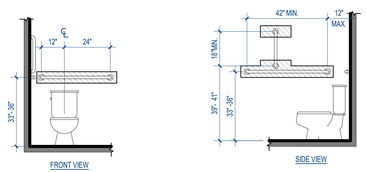
ACCEPTALE MANUFACTURERS:

1. A & J WASHROOM ACCESSORIES INC; WWW.AJASHROOM.COM.
2. AMERICAN SPECIALTIES, INC; WWW.AMERICANSPECIALTIES.COM
3. BRADLEY CORPORATION; WWW.BRADLEYCORP.COM
4. BOBRICK; WWW.BOBRICK.COM

SUBSTITUTIONS WILL BE CONSIDERED AS REQUESTED.

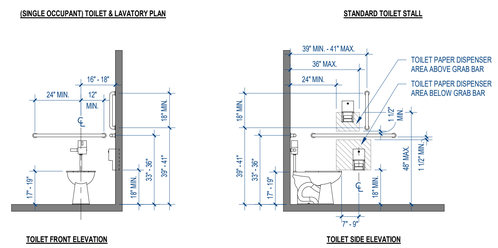
KEYS

PROVIDE UNIVERSAL KEYS FOR INTERNAL ACCESS TO ACCESSORIES FOR SERVICING AND RESUPPLYING. PROVIDE MINIMUM OF SIX KEYS TO OWNER'S REPRESENTATIVE.



E18 GRAB BAR REINFORCEMENT

3/8" = 1'-0"



E11 ACCESSIBLE RESTROOM FIXTURES

3/8" = 1'-0" TYPICAL PLANS & ELEVATION DETAILS

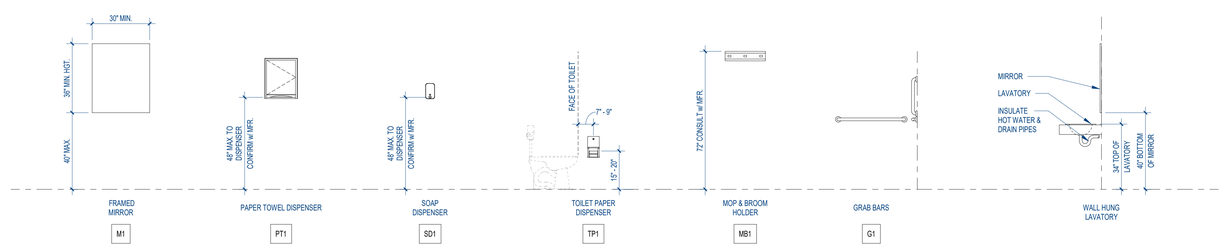
GENERAL NOTES

GRAB BAR REINFORCEMENT

GRAB BAR REINFORCING:

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.



A18 ACCESSIBLE RESTROOM ACCESSORIES

3/8" = 1'-0" LEGEND & TYPICAL MOUNTING HEIGHTS

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GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICULTURE 2024-09-24 STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

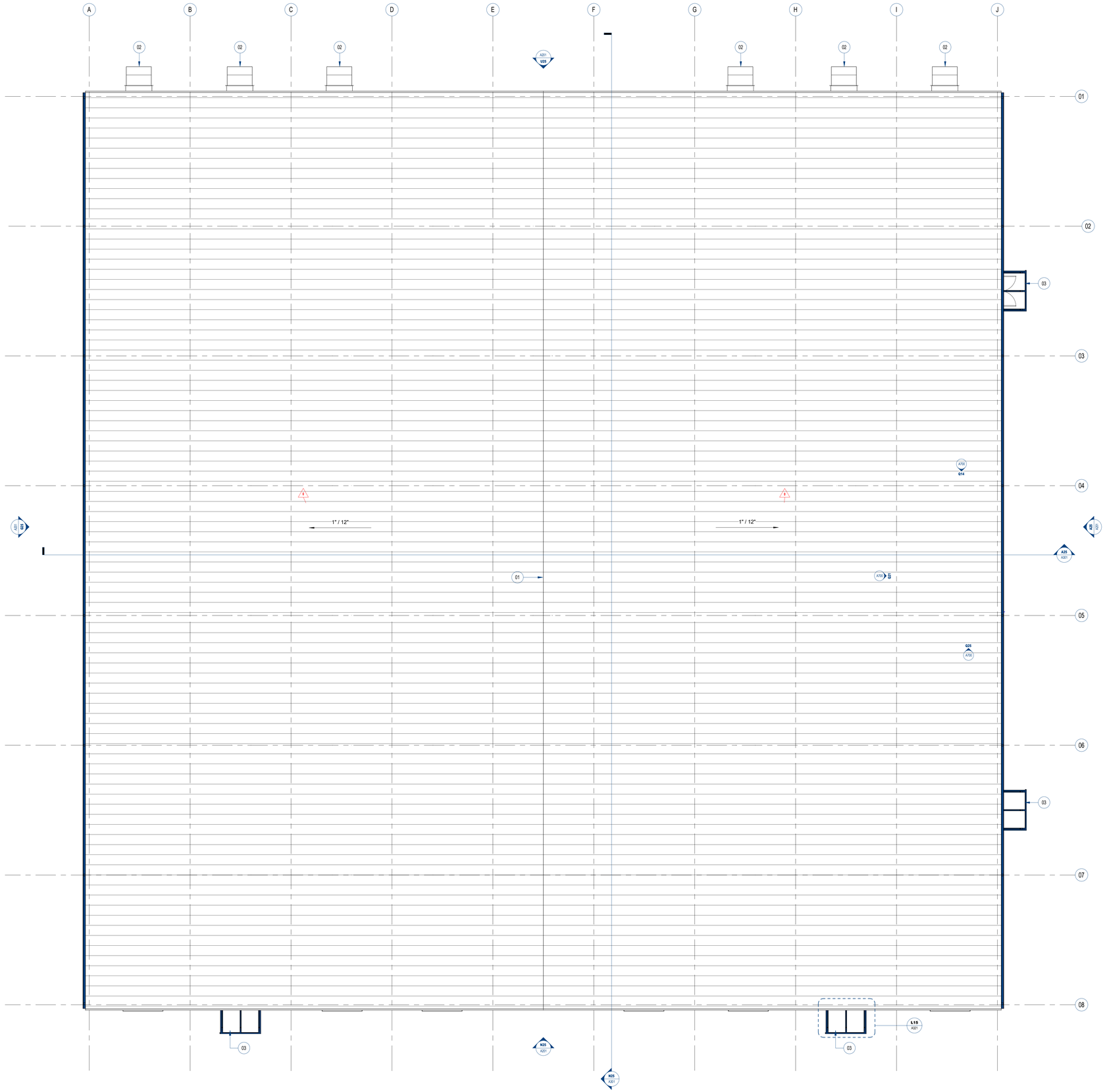
SHEET DESCRIPTION

ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS

A102

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

9/24/2024 11:31:06 AM



GENERAL NOTES

ROOF PLAN

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

KEYED NOTES

#08

ROOF PLAN

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

ROOF PANELS

BASIS OF DESIGN

1. Basis-of-Design: Ceco Ultra-Dek Metal Roof Panel: https://www.cecobuildings.com/products-and-services/panel-systems/metal-roof-panels/ultra-dek-roof-panel-system/

a. Structural Performance: Provide metal panel assemblies capable of withstanding the effects of indicated loads and stresses within limits and under conditions indicated.
   i. Refer to Structural drawings (S001) for design loads.
b. Thermal Movements: Allow for thermal movements from variations in both ambient and internal temperatures. Accommodate movement of support structure caused by thermal expansion and contraction. Allow for deflection and design for thermal stresses caused by temperature differences from one side of the panel to the other.
c. Nominal Coated Thickness: 24 gage
d. Panel Surface: Smooth with minor ribs in pan
e. Exterior Finish: Exposed Galvalume Plus coating
f. Color: indicated on drawings
g. Panel Width: 24 inch
h. Panel Seam Height: 3 inch
i. Joint Type: Snap Joint
j. Subject to compliance with requirements, provide the specified product or an Architect approved equal.
   i. Requests for substitutions will be considered in accordance with provisions of Section 006300 – Substitution Request Form.

2. Installation

a. General: Provide complete metal roof panel assembly incorporating trim, copings, fasciae, gutters and downspouts, and miscellaneous flashings, in manufacturer's standard profile(s). Provide required fasteners, closure strips, thermal spacers, splice plates, support plates, and sealants as indicated in manufacturer's written instructions.
b. Flashing and Trim: Match material, thickness, and finish of metal panel face sheet.
c. Panel Clips: Provide panel clip of type specified, at spacing indicated on approved shop drawings.
   i. Two-piece Floating: ASTM C 645, with ASTM A 653/A 653M, G90 (Z180) hot-dip galvanized zinc coating, configured for concealment in panel joints, and identical to clips utilized in tests demonstrating compliance with performance requirements.
   ii. Single-Piece Fixed: ASTM A 980 with zinc electroplated galvanized coating
d. Panel Fasteners: Self-tapping screws and other acceptable corrosion-resistant fasteners recommended by roof panel manufacturer. Where exposed fasteners cannot be avoided, supply fasteners with EPDM or neoprene gaskets and heads matching color of metal panels by means of factory-applied coating.
e. Joint Sealers: Manufacturer's standard or recommended liquid and preformed sealers and tapes, and as follows:
   i. Factory-Applied Seam Sealant: Manufacturer's standard hot-melt type.
   ii. Tape Sealers: Manufacturer's standard non-curing butyl tape, AAMA 809.2.
f. Finishes: Galvalume Finish

3. Examination

a. Examine metal panel system substrate and supports with Installer present. Inspect for erection tolerances and other conditions that would adversely affect installation of metal panel installation.
   i. Inspect metal panel support substrate to determine if support components are installed as indicated on approved shop drawings. Confirm presence of acceptable supports at recommended spacing to match installation requirements of metal panels.
   ii. Panel Support Tolerances: Confirm that panel supports are within tolerances acceptable to metal panel system manufacturer but not greater than the following:
      1. 1/4 inch (6 mm) in 20 foot (6.1 m) in any direction.
      2. 3/8 inch (9 mm) over any single roof plane.
b. Correct out-of-tolerance work and other deficient conditions prior to proceeding with insulated metal roof panel system installation.

4. Metal Panel Installation

a. Snap-Joint, Trapezoidal Standing Seam Metal Roof Panels: Install weathertight metal panel system in accordance with manufacturer's written instructions, approved shop drawings, and project drawings. Install metal roof panels in orientation, sizes, and locations indicated, free of waves, warps, buckles, fastening stresses, and distortions. Anchor panels and other components securely in place. Provide for thermal and structural movement.
b. Attach panels to supports using clips, screws, fasteners, and sealants recommended by manufacturer and indicated on approved shop drawings.
   i. Fasten metal panels to supports with concealed clips at each location indicated on approved shop drawings, with spacing and fasteners recommended by manufacturer.
   ii. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.
   iii. Provide weatherproof jacks for pipe and conduit penetrating metal panels of types recommended by manufacturer.
   iv. Dissimilar Materials: Where elements of metal panel system will come into contact with dissimilar materials, treat faces and edges in contact with dissimilar materials as recommended by manufacturer.

5. Accessory Installation

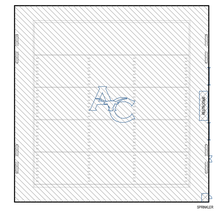
a. General: Install metal panel trim, flashing, and accessories using recommended fasteners and joint sealers, with positive anchorage to building, and with weather tight mounting. Provide for thermal expansion. Coordinate installation with flashings and other components.
   i. Install components required for a complete metal panel assembly, including trim, copings, flashings, sealants, closure strips, and similar items.
   ii. Comply with details of assemblies utilized to establish compliance with performance requirements and manufacturer's written installation instructions.
   iii. Provide concealed fasteners except where noted on approved shop drawings.
   iv. Set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently weather resistant.
b. Joint Sealers: Install joint sealers where indicated and where required for weathertight performance of metal panel assemblies, in accordance with manufacturer's written instructions.
   i. Prepare joints and apply sealants according to manufacturer's written installation instructions.

6. Cleaning and Protection

a. Remove temporary protective films immediately in accordance with metal roof panel manufacturer's instructions. Clean finished surfaces as recommended by metal roof panel manufacturer.
b. Replace damaged panels and accessories that cannot be repaired to the satisfaction of the Architect.

P1

TFM # 03970-F



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AGRICULTURE
2024-10-01
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24
1	BIDDING	2024-10-01

SHEET DESCRIPTION

ROOF PLAN & DETAILS

A111

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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

A04 KEY PLAN
NOT TO SCALE

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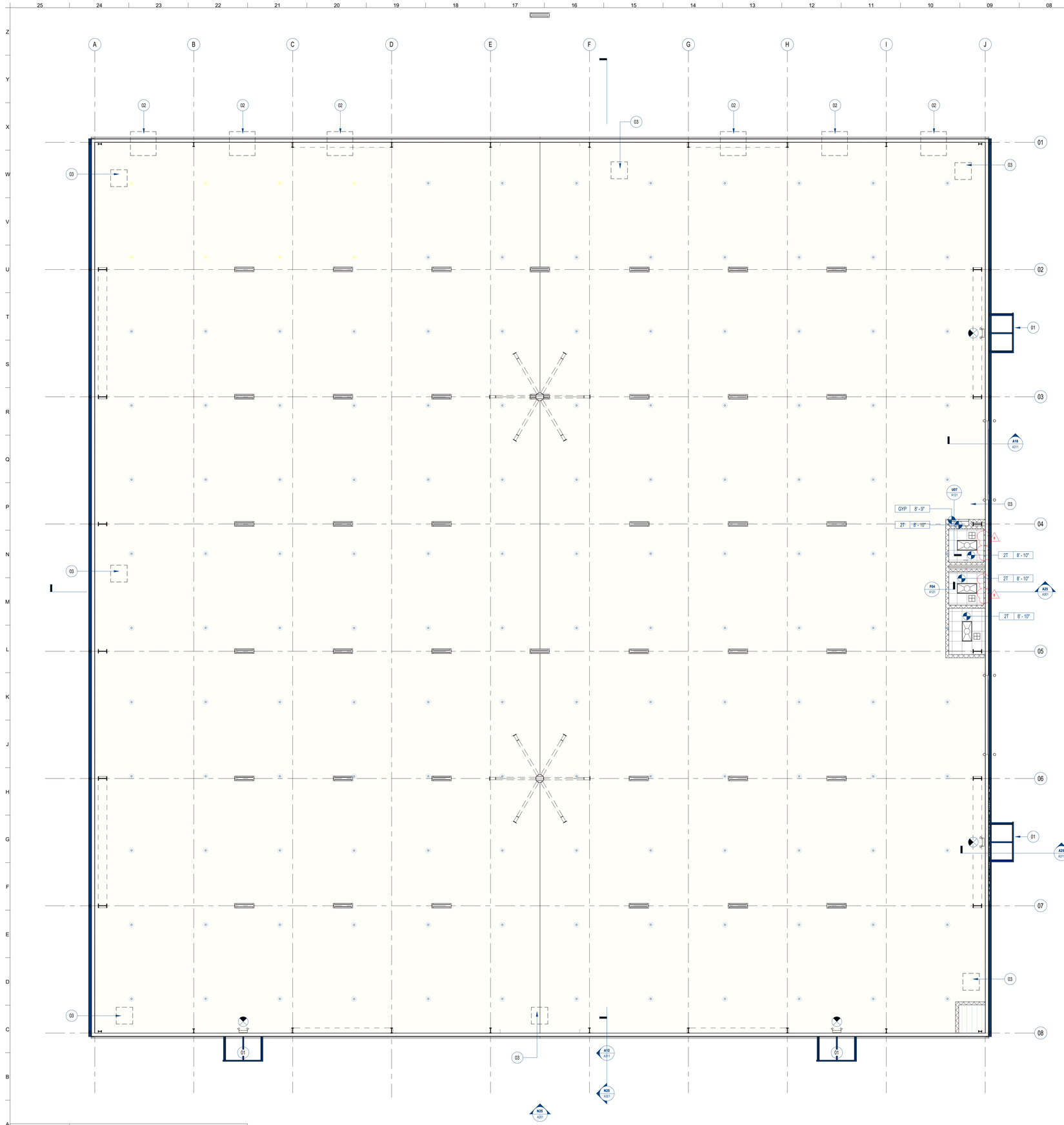


A25 GROUND FLOOR

1/8" = 1'-0" REFLECTED CEILING PLAN

GENERAL NOTES

REFLECTED CEILING PLANS

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

REFLECTED CEILING PLANS

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

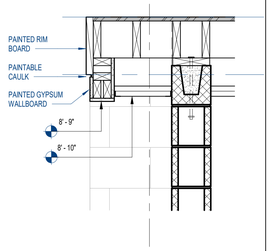
GRAPHIC LEGEND

NOT TO SCALE REFLECTED CEILING PLANS

	2T - 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-MANUFACTURERED ALUM CANOPY		

TFM # 03970-F

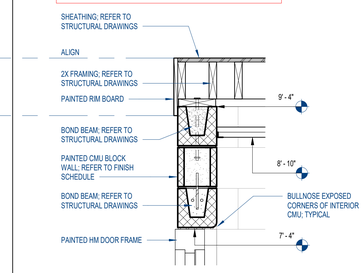
NOTE
IN THIS CONSTRUCTION TYPE, ALL INTERIOR WOOD MUST BE NONCOMBUSTIBLE. THUS, ALL WOOD MEMBERS TO BE FIRE RETARDANT, TREATED WOOD.



U07 ACT SOFFIT AT DF

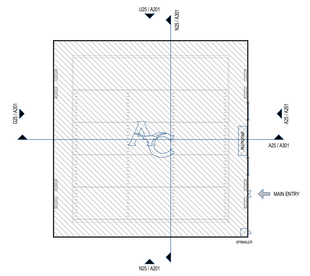
1" = 1'-0" CEILING DETAIL

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:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

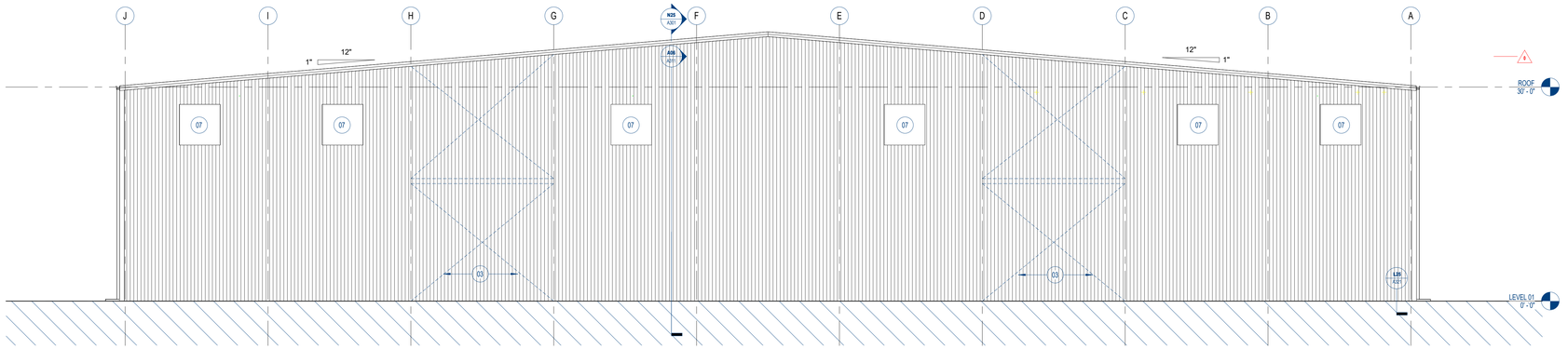
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

SHEET DESCRIPTION
FIRST FLOOR RCP

A121

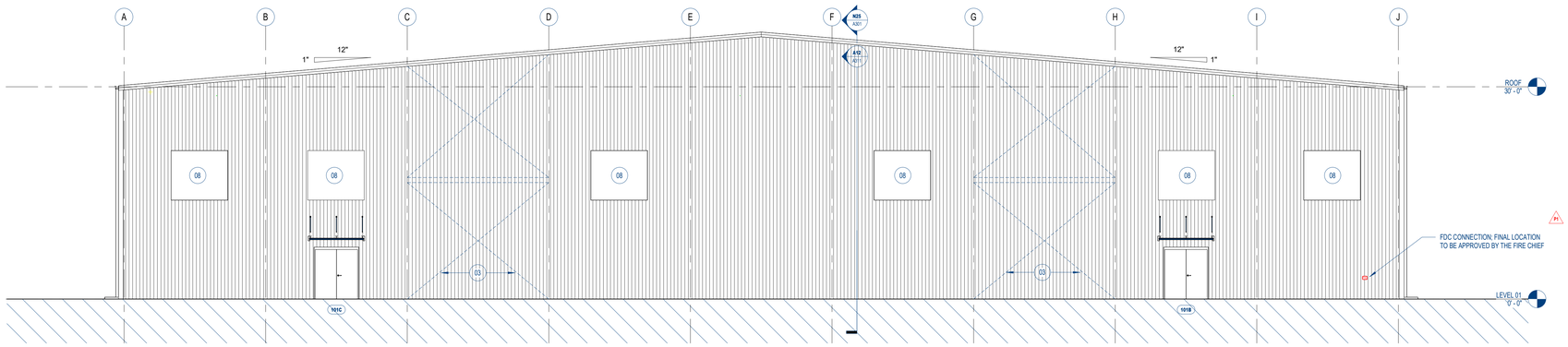
PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

9/24/2024 11:30:41 AM



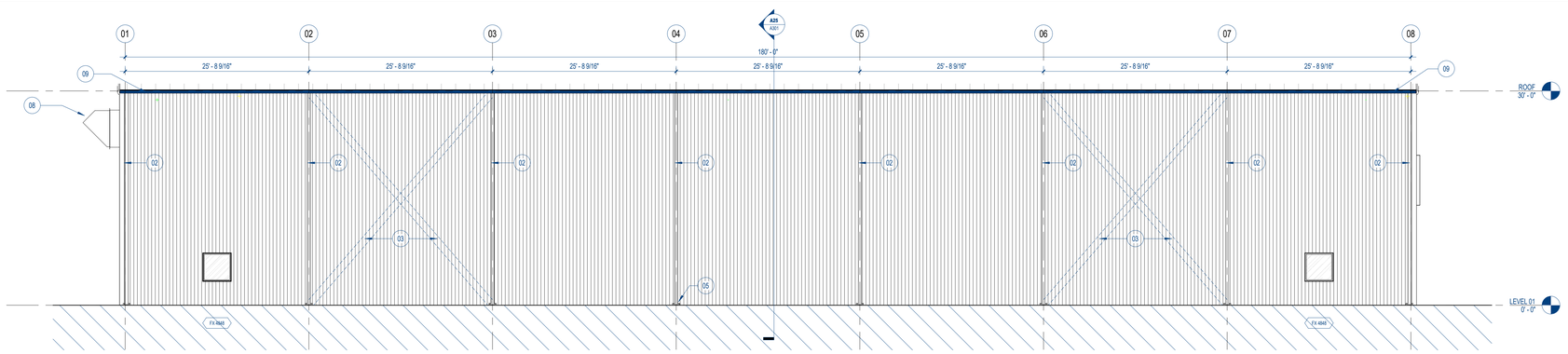
U25 NORTH ELEVATION

1/8" = 1'-0"



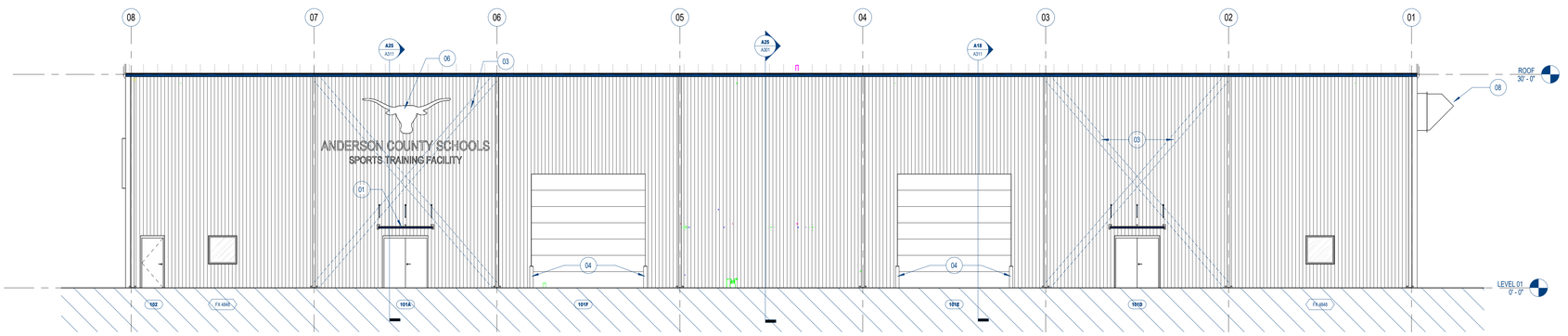
N25 SOUTH ELEVATION

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

WALL PANELS

BASIS OF DESIGN

1. Basis-of-Design: Ceco PBR Metal Wall Panel: http://www.cecobuildings.com/ceco-products/panelsystems/wall-panels/pbr-wall-panel-system/.

a. Coverage Width: 36 inches in width, length as indicated on Drawings.
b. Major Rib Spacing: 12 inches on center.
c. Rib Height: 1-1/4 inch
d. Nominal Coated Thickness: 26 gage.
e. Panel Surface: Smooth
f. Exterior Finish: Modified Silicone-polyester – color indicated on drawings.
g. Subject to compliance with requirements, provide the specified product or an Architect approved equal.
   i. Requests for substitutions will be considered in accordance with provisions of Section 006300 – Substitution Request Form.

2. Installation

a. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
   i. Provide complete metal panel assembly incorporating base, corner, and opening trims and miscellaneous flashings, in manufacturer's standard profiles.
   ii. Provide required fasteners, closure strips, support plates, and sealants as indicated in manufacturer's written instructions.
   iii. Flashing and Trim: Match material, thickness, and finish of metal panel face sheet.
   iv. Shim or otherwise plumb substrates receiving metal panels.
   v. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
   vi. Install screw fasteners in predrilled holes.
   vii. Locate and space fastenings in uniform vertical and horizontal alignment.
   viii. Install flashing and trim as metal panel work proceeds.
   ix. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
   x. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
   xi. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
b. Panel Fasteners:
   i. Self-tapping screws and other acceptable fasteners recommended by metal panel manufacturer.
c. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
d. Lap-Seam Metal Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
   i. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weathertight enclosure.
   ii. Provide metal-backed washers under heads of concealed fasteners bearing on weather side of metal panels.
   iii. Locate and space concealed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
   iv. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
   v. Flash and seal panels with weather closures at perimeter of all openings.
e. Watertight Installation:
   i. Apply a continuous ribbon of sealant or tape to seal lapped joints of metal panels, using sealant or tape as recommend by manufacturer on side laps of nesting-type panels; and elsewhere as needed to make panels watertight.
   ii. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
   iii. At panel splices, nest panels with manufacturer recommended end lap, sealed with sealant and fastened together according to manufacturer standards.
f. Finishes:
   i. Modified Silicone-Polyester Two-Coat System: 0.20 – 0.25 mil primer with 0.7 – 0.8 mil color coat.
      1. Basis of Design: Modified Silicone-Polyester Two-Coat System.
   ii. Interior Finish: 0.5 mil total dry film thickness consisting of primer coat and wash coat of manufacturer's standard light-colored acrylic or polyester backer finish.

3. Examination

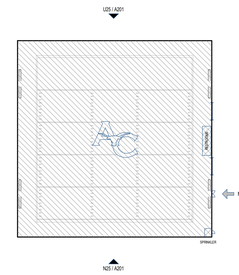
a. Examine metal panel system substrate and supports with Installer present. Inspect for erection tolerances and other conditions that would adversely affect installation of metal panel installation.
b. Inspect metal panel support substrate to determine if support components are installed as indicated on approved shop drawings. Confirm presence of acceptable supports at recommended spacing to match installation requirements of metal panels.
c. Panel Support Tolerances: Confirm that panel supports are within tolerances acceptable to metal panel system manufacturer but not greater than the following:
   i. 1/4 inch (6 mm) in 20 foot (6.1 m) in any direction.
d. Correct out-of-tolerance work and other deficient conditions prior to proceeding with metal panel system installation.

4. Cleaning and Protection

a. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
b. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
c. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

P1

TFM # 03970-F



A04 KEY PLAN

NOT TO SCALE

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24
1	BIDDING	2024-10-01

SHEET DESCRIPTION

EXTERIOR ELEVATIONS

A201

PROJECT DATE	PROJECT NUMBER
2024-09-23	23030

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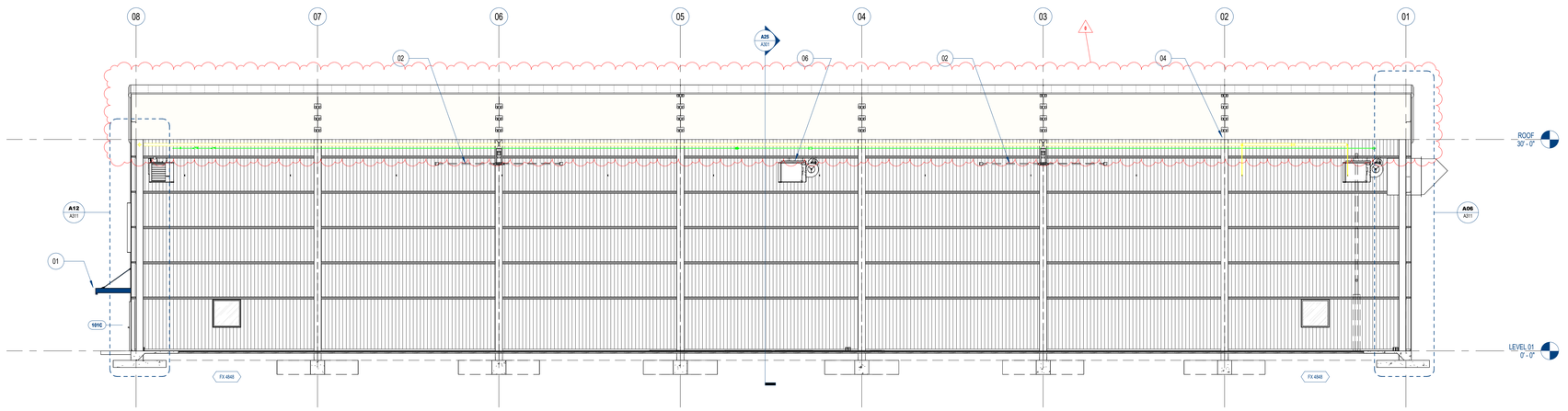
GREGORY SCOTT CAMPBELL — REGISTERED ARCHITECT — AGRICOLA — 2024-10-01 — STATE OF TENNESSEE

A NEW PROJECT FOR:

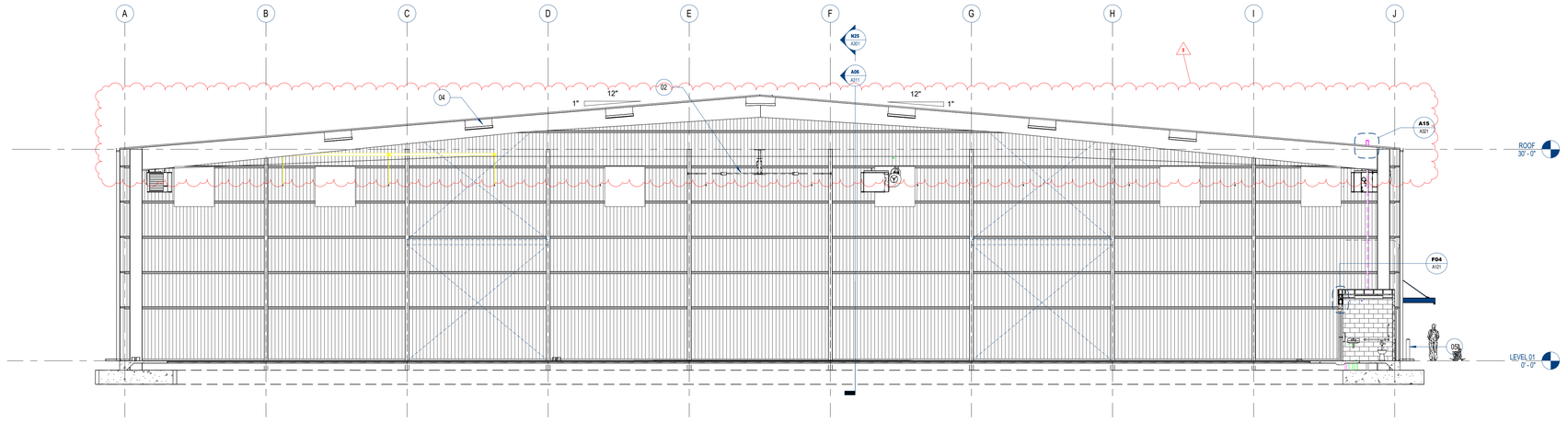
ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

10/1/2024 9:57:55 AM



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



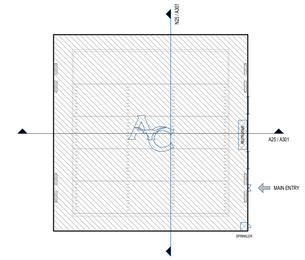
A25 BUILDING SECTION
1/8" = 1'-0"

KEYED NOTES

BUILDING SECTIONS

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

TFM # 03970-F



A04 KEY PLAN
NOT TO SCALE

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GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
2024-09-24
STATE OF TENNESSEE

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

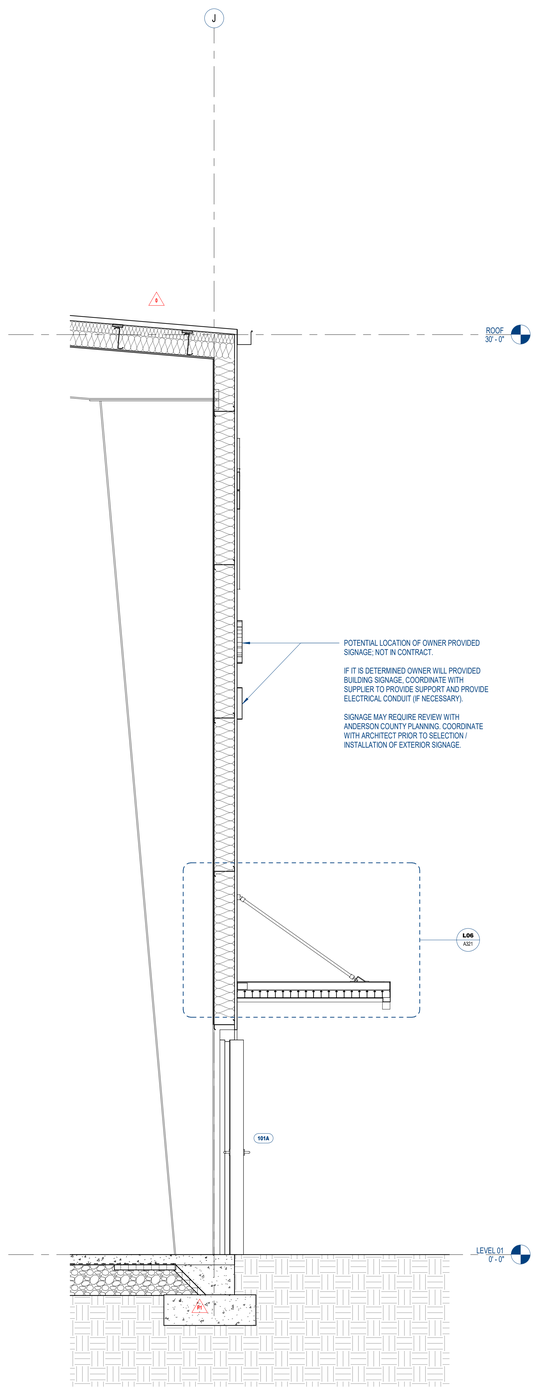
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

SHEET DESCRIPTION
BUILDING SECTIONS

A301

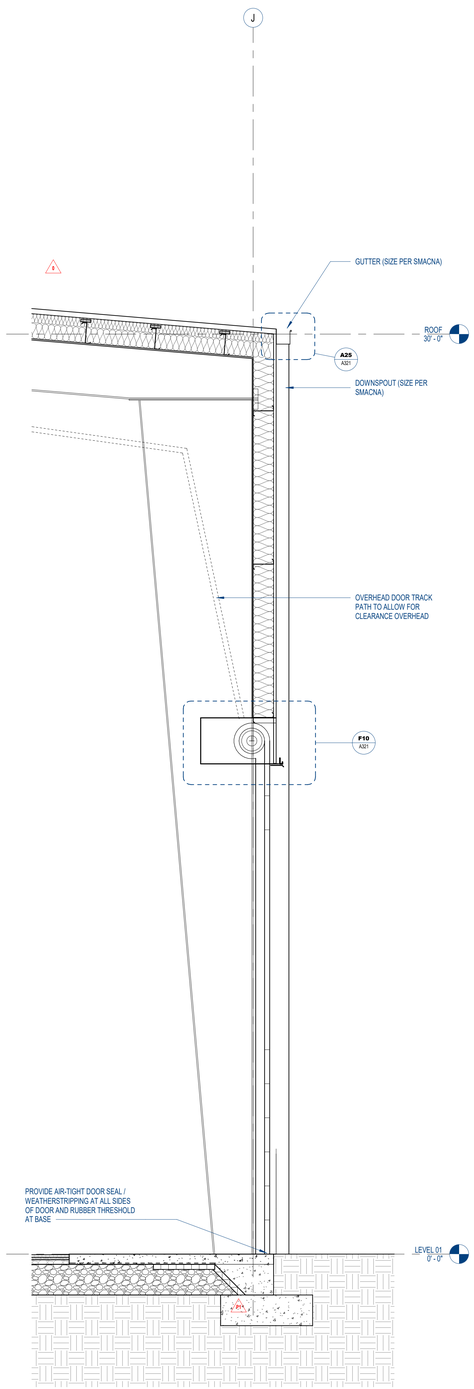
PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

9/24/2024 11:30:44 AM



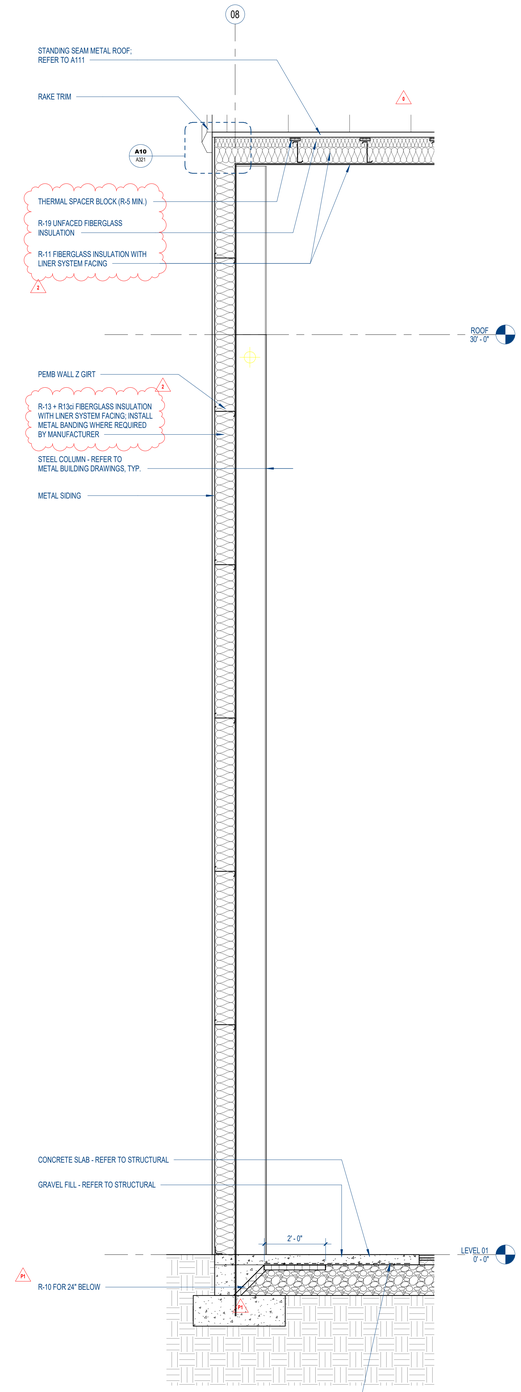
A25 FRONT ENTRY

1/2" = 1'-0"



A18 OVERHEAD DOOR

1/2" = 1'-0"



POLYETHLYENE VAPOR RETARDER

BASIS-OF-DESIGN PRODUCT: PROVIDE STEGO WRAP 15 MIL VAPOR RETARDER BY STEGO INDUSTRIES, LLC. OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING

1. INSULATION SOLUTIONS, INC. – VIPER VAPORCHECK II 15 MIL
2. REEF INDUSTRIES - GRIFFOLYN 15 MIL
3. FORTIFIBER INDUSTRIES - MOISTOP ULTRA 15
4. W.R. MEADOWS, INC. – PERMINATOR 15 MIL

A12 SOUTH WALL

1/2" = 1'-0"

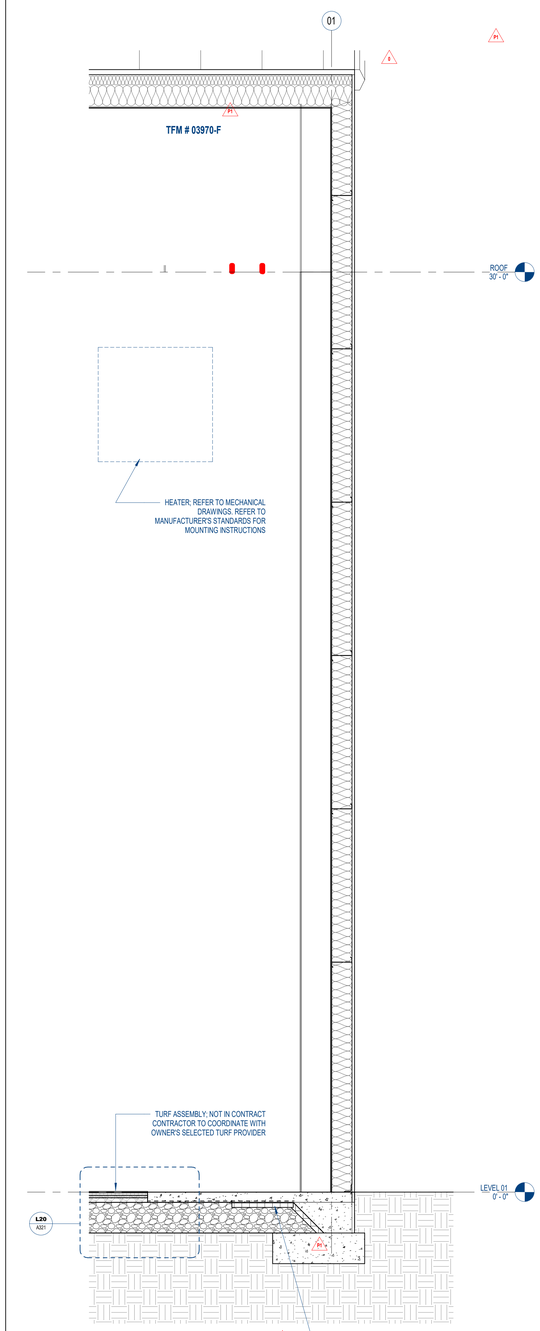
EXP R-10 FOR 24" BELOW AT SLAB PERIMETER:

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 DIVERSIFOAM, WWW.DIVERSIFOAM.COM.
   b. STYROFOAM BRAND PERIMATE BY THE DOW CHEMICAL COMPANY, WWW.DUPONT.COM.
   c. GREENGUARD GG25-LG XPS BY KINGSPAN INSULATION LLC, WWW.KINGSPAN.COM.
   d. FORMULAR 250 (TG) 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 HIGHLOAD 60 INSULATION BY THE DOW CHEMICAL COMPANY,
   b. WWW.DUPONT.COM.
   c. GREENGUARD GG60-LG XPS BY KINGSPAN INSULATION LLC, WWW.KINGSPAN.COM.
   d. CORMULAR 600 XPS BY OWENS CORNING INSULATING SYSTEMS LLC, WWW.OWENSCORNING.COM.



A06 NORTH WALL

1/2" = 1'-0"

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GREGORY SCOTT CAMPBELL — REGISTERED ARCHITECT — AGRICULTURE BUILDING — STATE OF TENNESSEE — 2024-10-01

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24
2	BIDDING	2024-10-01

SHEET DESCRIPTION

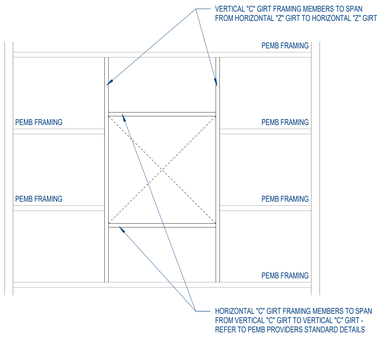
WALL SECTIONS

A311

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

10/17/2024 2:19:04 PM

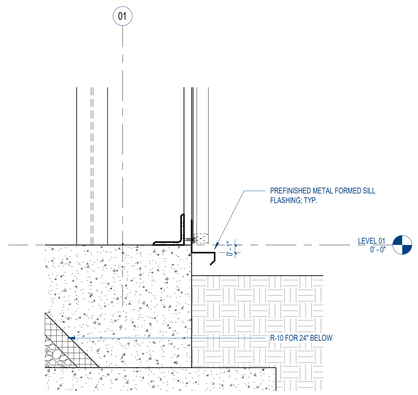
NOTE: PROVIDE CONTINUOUS "C" GIRTS AT ALL FOUR SIDES OF OPENING - ENSURE MEMBERS SUPPORT WEIGHT OF PROPOSED MECHANICAL EQUIPMENT.



U25 MECH. OPENING FRAMING DETAIL

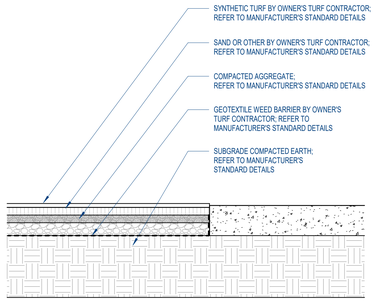
1/4" = 1'-0" DESIGN INTENT

TFM # 03970-F



L25 SLAB EDGE CONDITION

1 1/2" = 1'-0"

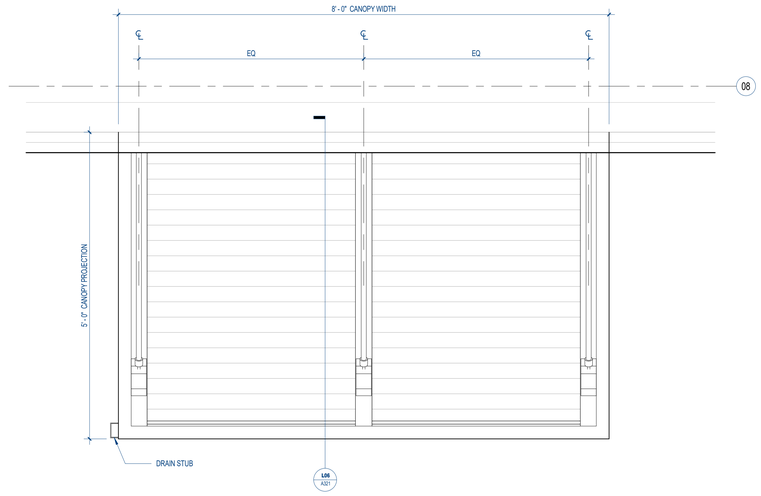


DETAIL SHOWN TO CONVEY DESIGN INTENT ONLY

SYNTHETIC TURF BY OWNER'S TURF CONTRACTOR; CONTRACTOR TO COORDINATE W/ SUPPLIER / INSTALLER PRIOR TO INSTALL

L20 TURF SURFACE INTENT

1 1/2" = 1'-0" COORDINATE W/ OWNER'S CONTRACTOR



L15 CANOPY ROOF PLAN

1" = 1'-0"

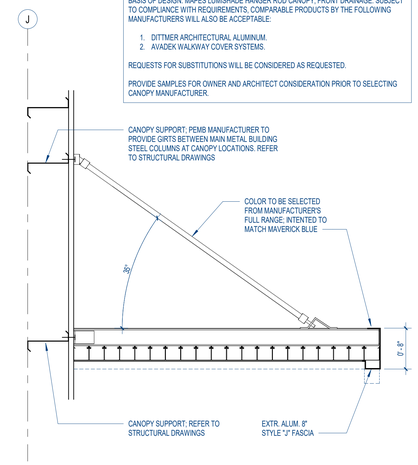
PRE-FABRICATED METAL CANOPIES

BASIS OF DESIGN: MAPES LUMISHADE HANGER ROD CANOPY, FRONT DRAINAGE. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, COMPARABLE PRODUCTS BY THE FOLLOWING MANUFACTURERS WILL ALSO BE ACCEPTABLE:

1. DITTMER ARCHITECTURAL ALUMINUM.
2. AVADEK WALKWAY COVER SYSTEMS.

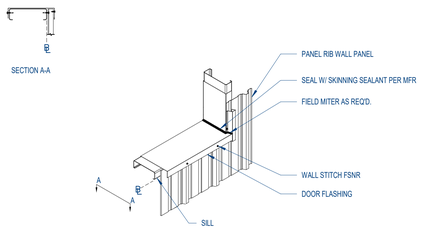
REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED AS REQUESTED.

PROVIDE SAMPLES FOR OWNER AND ARCHITECT CONSIDERATION PRIOR TO SELECTING CANOPY MANUFACTURER.



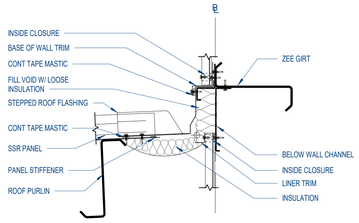
L06 CANOPY SECTION

1" = 1'-0"



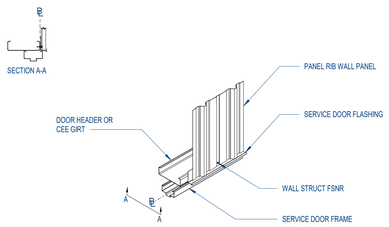
F25 SILL TRIM

1/2" = 1'-0"



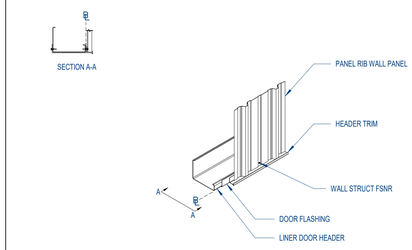
F20 WALL TO ROOF DETAIL

1 1/2" = 1'-0"



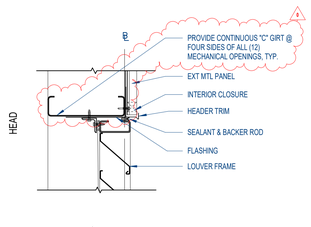
F15 WALL TRIM @ SERVICE DOOR HEAD

1/2" = 1'-0"



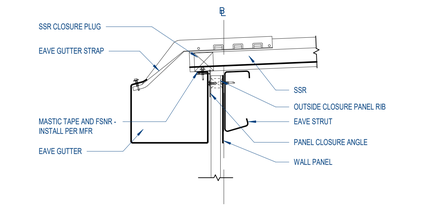
F10 WALL TRIM @ OVERHEAD DOOR HEAD

1/2" = 1'-0"



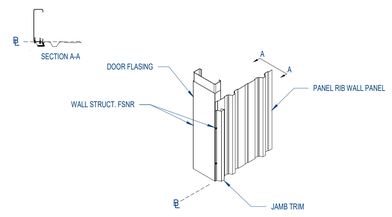
A05 MECH. OPENING DETAILS

1 1/2" = 1'-0" DESIGN INTENT



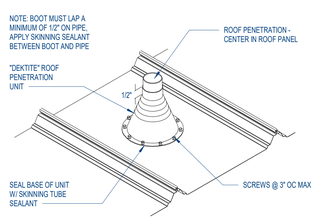
A25 EAVE GUTTER DETAIL

1 1/2" = 1'-0"



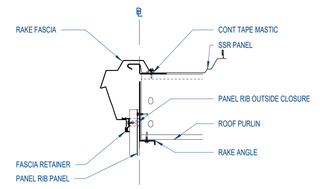
A20 JAMB TRIM @ OVERHEAD DOOR

1/2" = 1'-0"



A15 PIPE PENETRATION DETAILS

3" = 1'-0"



A10 RAKE DETAIL

1 1/2" = 1'-0"

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GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICULTURE 2024-09-24 STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

SHEET DESCRIPTION

PLAN AND SECTION DETAILS

A321

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

9/24/2024 12:34:01 PM

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section references specification sections relating to commercial door hardware for the following:

1. Swinging doors.
2. Sliding Doors.
3. Other doors to the extent indicated.

B. Commercial door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical and access control door hardware.
3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
4. Automatic operators.
5. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section "Door Hardware".

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.

D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.

1. Section 08 71 00 – Door Hardware.

C. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RF - Rixson
4. RO - Rockwood
5. YA - Arrow, formerly known as Yale
6. AD - Adams Rite
7. SU - Securitron
8. OT - Other

Hardware Sets

Set: 1.0

Doors: 101A, 101D
Description: EXT HMD PR - MAIN ENTRY- NL RIM X KRM X EO RIM

6 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US26D	MK
1 Mullion	KRM200 7'	600	YA
1 Rim Exit Device, Exit Only	7100 EO	630	YA
1 Rim Exit Device, Nightlatch	7105 632F	626	YA
3 Cylinder	Cylinder (Type as Required - Match Existing Key System)	630	YA
2 Surface Closer	PR3501	689	YA

2 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
2 Door Stop	467-RKW	Black	RO
1 Gasketing (Head)	2891APK		PE
2 Gasketing (Jambs)	290APK		PE
1 Rain Guard	346C x (Width of Frame Head)		PE
2 Sweep	3452APK TKSP		PE
1 Threshold	253x3AFG		PE

Set: 2.0

Doors: 101B, 101C
Description: EXT HMD PR - KRM X EO RIM

6 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US26D	MK
1 Mullion	KRM200 7'	600	YA
2 Rim Exit Device, Exit Only	7100 EO	630	YA
1 Cylinder	Cylinder (Type as Required - Match Existing Key System)	630	YA
2 Surface Closer	PR3501	689	YA
2 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
2 Door Stop	467-RKW	Black	RO
1 Gasketing (Head)	2891APK		PE
2 Gasketing (Jambs)	290APK		PE
1 Rain Guard	346C x (Width of Frame Head)		PE
2 Sweep	3452APK TKSP		PE
1 Threshold	253x3AFG		PE

Set: 3.0

Doors: 104, 105
Description: SINGLE STALL TOILET - PRIVACY SET - RA CLOSER - KP - MP - WS - SG

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Privacy Lock	MO 5402LN	626	YA
1 Surface Closer	R3501	689	YA
1 Mop Plate	K1050 4" X 1" LDW CSK BEV	US32D	RO
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	406 / 409 (Type as Required)	US26D	RO
1 Gasketing	S88BL		PE
1 Coat Hook	RM811	US26D	RO

Set: 4.0

Doors: 103
Description: JANITOR / SUPPLY - STOREROOM LOCK - RA CLOSER X COHS - KP - SI

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom or Closet Lock	MO 5405LN GMK	626	YA
1 Conc Overhead Stop	2-X36	630	RF
1 Surface Closer	R3501	689	YA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608		RO

Set: 5.0

Doors: 102
Description: SPRINKLER - STOREROOM LOCK - PA CLOSER - KP - WS - SI

3 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom or Closet Lock	MO 5405LN GMK	626	YA
1 Surface Closer	PR3501	689	YA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Gasketing (Head)	2891APK		PE
2 Gasketing (Jambs)	290APK		PE
1 Rain Guard	346C x (Width of Frame Head)		PE
1 Sweep	3452APK TKSP		PE
1 Threshold	253x3AFG		PE

Set: 6.0

Doors: 101E, 101F
Description: OVERHEAD DOORS

1 Cylinder	Cylinder (Type as Required - Match Existing Key System)	630	YA

END OF SECTION 080671

10/1/2024 10:38:12 AM

GLAZING FILM SPEC

[SAFETY & SECURITY WINDOW FILM]
BASIS-OF-DESIGN: 3M SCOTCHSHIELD SAFETY AND SECURITY WINDOW FILM ULTRA S800, WWW.3M.COM

1. PROVIDE 3M SCOTCHSHIELD SAFETY AND SECURITY WINDOW FILM ULTRA S800.
2. FILM THICKNESS: 8 MILS
3. CLASS A FLAMMABILITY (ASTM E-84)
4. SOLAR PERFORMANCE PROPERTIES (FILM APPLIED TO 1/4" THICK CLEAR GLASS):
   A. VISIBLE LIGHT TRANSMISSION: 88%
   B. VISIBLE REFLECTION: NOT MORE THAN 9%
   C. ULTRAVIOLET TRANSMISSION: LESS THAN 1% (300 - 380 NM)
   D. SOLAR HEAT GAIN COEFFICIENT: 0.79

5. PROVIDE **[3M IMPACT PROTECTION ADHESIVE ATTACHMENT SYSTEM]** AROUND PERIMETER OF SURFACE - INSTALL ACCORDING TO MANUFACTURER'S GUIDELINES

* TYPICAL AT ALL EXTERIOR GLAZING IN WINDOWS AND DOORS *

WINDOW SCHEDULE

TYPE	WIDTH	HEIGHT	COMMENTS
FX4848	4' - 0"	4' - 0"	HOLLOW METAL FRAME; PT-2 FINISH

* REFER TO A700 FOR FINISHES
* SEE GLAZING FILM SPECIFICATIONS FOR WINDOW FILM

DOOR SCHEDULE

NO. #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE SET	DETAIL REFERENCES HEAD	DETAIL REFERENCES SILL	DETAIL REFERENCES JAMB	COMMENTS
101A	DF	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	1.0				
101B	DF	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	2.0				
101C	DF	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	2.0				
101D	DF	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	1.0				
101E	OVHD	16' - 0"	16' - 0"	0' - 2"	STL	---	---	---	---	---	6.0				1, 2
101F	OVHD	16' - 0"	16' - 0"	0' - 2"	STL	---	---	---	---	---	6.0				1, 2
102	F	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	5.0				
103	F	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	4.0	F04 / A500		A04 / A500	
104	F	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	3.0	F04 / A500		A04 / A500	
105	F	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-2	1	HM	PT-2	---	3.0	F04 / A500		A04 / A500	

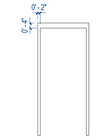
COMMENTS
1. INSULATED
2. BASIS OF DESIGN SPEC INCLUDED ON A501

WINDOW TYPES

NOT TO SCALE

FRAME TYPES

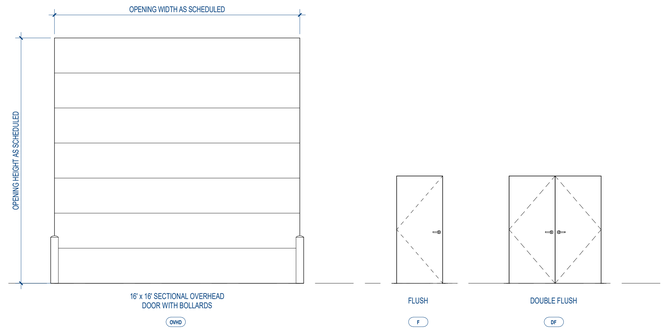
NOT TO SCALE

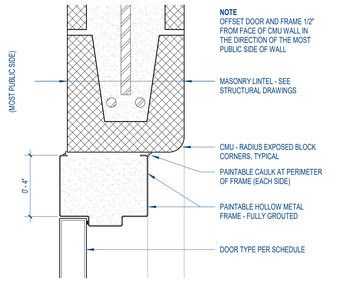


TFM # 03970-F

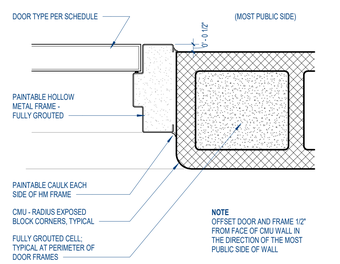
DOOR TYPES

NOT TO SCALE





F04 HEAD
3" = 1'-0" HOLLOW METAL



A04 JAMB
3" = 1'-0" HOLLOW METAL

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GREGORY SCOTT CAMPBELL REGISTERED ARCHITECT AGRICOLA 2024-10-01 STATE OF TENNESSEE

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

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
1	BIDDING	2024-10-01

SHEET DESCRIPTION
OPENING SCHEDULES AND DETAILS

A500

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

SECTION 08 33 36
OVERHEAD COILING DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Overhead coiling insulated doors.

1.2 RELATED SECTIONS

A. Section 05 50 00 - Metal Fabrications.

B. Section 06 20 00 - Finish Carpentry.

C. Section 08333 - Security Grilles.

D. Section 08 71 53 - Security Door Hardware.

E. Section 09 90 00 - Painting and Coating.

F. Section 27 05 39 - Surface Raceways for Communications Systems.

G. Section 26 05 00 - Common Work Results for Electrical.

1.3 REFERENCES

A. ANSI/DASMA 108 - American National Standards Institute Standard Method For Testing Sectional Garage Doors And Rolling Doors: Determination Of Structural Performance Under Uniform Static Air Pressure Difference.

B. NFRC 102 - Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.

C. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Element.

D. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

E. ASTM A 653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

F. ASTM A 924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

G. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

H. NEMA MG 1 - Motors and Generators.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

B. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Details of construction and fabrication.
4. Installation instructions.

C. Shop Drawings: Include detailed plans, elevations, details of framing members, anchoring methods, required clearances, hardware, and accessories. Include relationship with adjacent construction.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and patterns.

F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

G. Operation and Maintenance Data: Submit lubrication requirements and frequency, and periodic adjustments required.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.

B. Installer Qualifications: Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.

C. Store materials in a dry, warm, ventilated weathertight location.

1.8 PROJECT CONDITIONS

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

1.9 COORDINATION

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

1.10 WARRANTY

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

B. Warranty: Manufacturer's limited door system warranty for 2 years for all parts and components.

C. PowderGuard Finish
1. PowderGuard Textured: Applied to, guides, bottom bar, headplates: Manufacturer's limited Textured Finish warranty for 3 years. Black Weathered Iron. **Standard prime or standard powder coat not acceptable**

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Overhead Door Corporation, which is located at: 2501 S. State Hwy. 121 Suite 200; Lewisville, TX 75067

B. Cornell Iron

C. Cookson Rolling Doors

2.2 INSULATED OVERHEAD COILING SERVICE DOORS

A. Overhead Coiling Stormtite Insulated Service Doors: Overhead Door Corporation Model 625.
1. Curtain: Interlocking roll-formed slats as specified following. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
a. Front slat fabricated of:
1) 20 gauge galvanized steel.
b. Back slat fabricated of:
1) 22 gauge galvanized steel.
c. Slat cavity filled with CFC-free foamed-in-place, polyurethane insulation.
1) R-Value: 7.7, U-Value: 0.13.
2) Sound Rating: STC-21.
2. Performance:
a. Through Curtain Sound Rating: Sound Rating: STC-28 (STC-30+ with HZ noise generator) as per ASTM E 90.
b. Installed System Sound Rating: STC-21 as per ASTM E 90.
c. U-factor: 0.91 NFRC test report, maximum U-factor of no higher than 1.00.
d. Air Infiltration: Meets ASHRAE 90.1 & IECC 2012/2015 C402.4.3 Air leakage < 1.00 cfm/ft2. Note: this is a special air infiltration package and must be supplied with door.
3. Slats and Hood Finish:
a. Galvanized Steel: Slats and hood galvanized in accordance with ASTM A 653 and receive rust-inhibitive, roll coating process, including 0.2 mils thick baked-on prime paint, and 0.6 mils thick baked-on polyester top coat.
1) Tan, Grey, White or Brown
4. Weatherseals:
a. Vinyl bottom seal, exterior guide and internal hood seals.
5. Bottom Bar:
a. Two prime painted steel angles minimum thickness 1/8 inch (3 mm) bolted back to back to reinforce curtain in the guides.
6. Brackets:
a. Hot rolled prime painted steel to support counterbalance, curtain and hood.
7. Finish; Bottom Bar, Guides, Headplate and Brackets:
a. Finish: PowderGuard Textured powder, Black Weathered iron.
8. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03 inch per foot of span. Counterbalance is adjustable by means of an adjusting tension wheel.
9. Hood: Provide with internal hood baffle weatherseal.
a. 24 gauge galvanized steel with intermediate supports as required.
10. Electric Motor Operation: Model RHX Gearhead type 1 hp. Provide UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
a. Sensing Edge Protection:
1) Monitored NEMA 4X through beam Photo Cell Safety Device
b. Operator Controls:
1) Push-button operated control stations with open, close, and stop buttons.
2) Controls for interior location.
3) Controls surface mounted.
c. Motor Voltage: 120/208/230 1 phase, or 208/230/460 3 phase 60 Hz.
11. Windload Design:
a. windload shall be 25 PSF.
12. Operation: Design door assembly, including operator, to operate for not less than 20,000 cycles.
13. Locking:
a. Chain keeper locks for chain hoist operation. **At manually Operated Doors**
14. Wall Mounting Condition:
a. Face-of-wall mounting.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify opening sizes, tolerances and conditions are acceptable.

B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.

C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.

D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

E. Coordinate installation of electrical service with Section 26 05 00 - Common Work Results for Electrical.

F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07 90 00 - Joint Protection.

G. Install perimeter trim and closures.

H. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.4 ADJUSTING

A. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.

B. Remove labels and visible markings.

C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION

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GREGORY SCOTT CAMPBELL
REGISTERED ARCHITECT
AGRICOLA
2024-10-04
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
1	BIDDING	2024-01-01
3	BIDDING	2024-10-04

SHEET DESCRIPTION

OVERHEAD DOOR SPEC

A501

PROJECT DATE	PROJECT NUMBER
2024-10-01	**23030**

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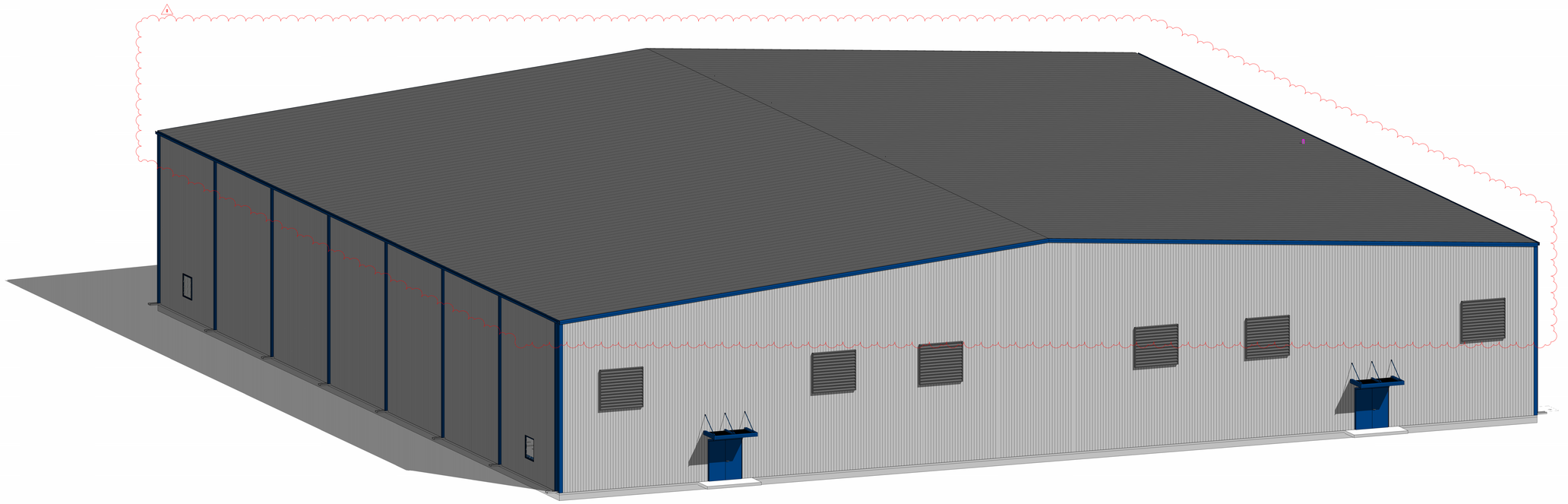
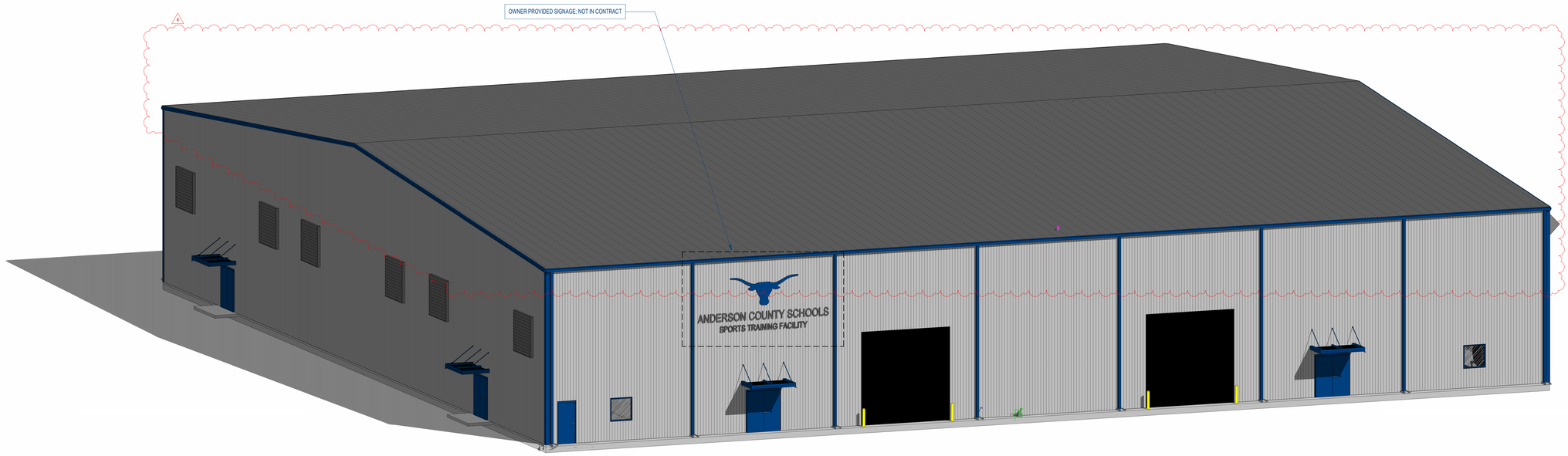


TFM # 03970-F

N25 3D VIEW LOOKING NORTH



A25 3D VIEW LOOKING WEST

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AGRICULTURE
2024-09-24
STATE OF TENNESSEE

A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
0	BIDDING	2024-09-24

SHEET DESCRIPTION
3D DRAWINGS

A600

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

INTEIRIOR PAINT AND COATINGS

ACCEPTABLE MANUFACTURERS: PPG PAINTS, SHERWIN-WILLIAMS COMPANY, BENJAMIN MOORE & CO.
REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED UPON REQUEST.

STEEL SUBSTRATES (METAL BENTS):
1. WATER-BASED HIGH PERFORMANCE COATING SYSTEM MPI INT 5.1E:
   A. PRIME COAT: QUICK DRY ALKYD PRIMER FOR METAL MPI #76.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; PROTECTIVE & MARINE, KEM BOND HS UNIVERSAL ALKYD PRIMER, B50W20004.
   B. INTERMEDIATE COAT: HIGH PERFORMANCE COATING, INTERIOR, WATER BASED, MATCHING TOPCOAT.
   C. TOPCOAT: HIGH PERFORMANCE COATING, INTERIOR, WATER BASED (MPI GLOSS LEVEL 5), MPI #47.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; PROMAR 200, ALKYD SEMI-GLOSS, B34W02251.

WOOD SUBSTRATES:
1. VARNISH, INTERIOR, POLYURETHANE, OIL MODIFIED, SATIN [MPI INT 6.4J]:
   A. PRIME COAT: MATCHING TOPCOAT.
   B. INTERMEDIATE COAT: MATCHING TOPCOAT.
   C. TOPCOAT: MPI GLOSS LEVEL 4), MPI #57.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; MINWAX, POLYURETHANE CLEAR SATIN, 71028.

CMU SUBSTRATES:
1. TWO COATS OF EPOXY OVER AN ACRYLIC BLOCK FILLER APPLIED OVER A PROPERLY PREPARED SURFACE.
   A. BLOCK FILLER:
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; PRO INDUSTRIAL HEAVY DUTY BLOCK FILLER, B42W00150.
   B. INTERMEDIATE COAT: EPOXY, INTERIOR, MATCHING TOPCOAT.
   C. TOPCOAT: EPOXY LOW SHEEN (MPI #62, GLOSS LEVEL 3)
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; PROMAR 200 HP ZERO VOC INTERIOR ACRYLIC EG-SHEL, B20W01951.

GYPSUM BOARD SUBSTRATES:
1. LATEX OVER LATEX SEALER SYSTEM MPI INT 9.2C:
   A. PRIME COAT: PRIMER SEALER, LATEX, INTERIOR, MPI #50.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; DRYWALL PRIMER, DRYWALL LATEX PRIMER, B28W08150.
   B. INTERMEDIATE COAT: LATEX, INTERIOR, MATCHING TOPCOAT.
   C. TOPCOAT: LATEX, INTERIOR (MPI GLOSS LEVEL 2), MPI #145.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; PROMAR 200 HP ZERO VOC, INTERIOR ACRYLIC EG-SHEL, B20W01951.

EXTERIOR PAINT AND COATINGS

ACCEPTABLE MANUFACTURERS: PPG PAINTS, SHERWIN-WILLIAMS COMPANY, BENJAMIN MOORE & CO.
REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED UPON REQUEST.

METAL BOLLARDS:
a. GALVANIZED AND FACTORY PAINTED. SAFETY YELLOW.

GALVANIZED-METAL (INCLUDING PORTIONS OF STEEL EMBEDDED IN CONCRETE AND MASONRY PRIOR TO SETTING):
1. PIGMENTED POLYURETHANE OVER HIGH-BUILD EPOXY SYSTEM, MPI EXT 5.3M:
   A. PRIMER, EPOXY, ANTI-CORROSIVE, FOR METAL, MPI #108.
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; MACROPOXY 646 FAST CURE EPOXY B58W00610/B58V00600.
   B. INTERMEDIATE COAT: POLYURETHANE, TWO COMPONENT, PIGMENTED, EXTERIOR, MATCHING TOPCOAT.
   C. TOPCOAT: POLYURETHANE, TWO COMPONENT, PIGMENTED, SEMI-GLOSS MPI #174, (GLOSS LEVEL 5).
      a. BASIS-OF-DESIGN: SHERWIN-WILLIAMS; ACROLON 218 HS POLYURETHANE SEMI-GLOSS, B65W651/B65V600.

FINISHES

[ACT-1] BASIS-OF-DESIGN: SCHOOL ZONE FINE FISSURED BY ARMSTRONG CEILING & WALL SOLUTIONS.
1. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EITHER THE NAMED PRODUCT OR AN EQUAL PRODUCT BY ONE OF THE FOLLOWING:
   A. CERTAINTEED CORPORATION.
   B. USG CORPORATION.
2. SURFACE TEXTURE: NON-DIRECTIONAL FINE FISSURED.
3. COLOR: WHITE.
4. LR: NOT LESS THAN 0.82.
5. NRC: NOT LESS THAN 0.70.
6. CAC: NOT LESS THAN 40.
7. EDGE/JOINT DETAIL: ANGLED TEGULAR 15/16.
8. DIMENSIONAL STABILITY: HUMIGUARD PLUS.
9. THICKNESS: 3/4 INCH (15 MM).
10. MODULAR SIZE: 24" X 24"

[METAL SUSPENSION SYSTEM] BASIS-OF-DESIGN: PRELUDE XL BY ARMSTRONG CEILING & WALL SOLUTIONS.
1. METAL SUSPENSION SYSTEM SHALL BE MANUFACTURED BY THE SAME MANUFACTURER AS THE ACOUSTICAL CEILING PANELS.
2. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EITHER THE NAMED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
   A. CERTAINTEED CORPORATION.
   B. USG CORPORATION.
3. WIDE-FACE, CAPPED, DOUBLE-WEB, STEEL SUSPENSION SYSTEM: MAIN AND CROSS RUNNERS ROLL FORMED FROM COLD-ROLLED STEEL SHEET; PREPAINTED, ELECTROLYTICALLY ZINC COATED, OR HOT-DIP GALVANIZED ACCORDING TO ASTM A 653/A 653M, NOT LESS THAN G30 (Z90) COATING DESIGNATION; WITH PREFINISHED 15/16-INCH- (24-MM-) WIDE METAL CAPS ON FLANGES.
   A. STRUCTURAL CLASSIFICATION: INTERMEDIATE-DUTY SYSTEM.
   B. END CONDITION OF CROSS RUNNERS: OVERRIDE (STEPPED) TYPE.
   C. FACE DESIGN: FLAT, FLUSH.
   D. CAP MATERIAL: STEEL COLD-ROLLED SHEET.
   E. CAP FINISH: PAINTED TO MATCH COLOR OF ACOUSTICAL UNIT.

[PC-1] POLISHED CONCRETE
POLISHED CONCRETE TO BE THE FINISHED FLOOR SURFACE; OWNER WILL CONTRACT THIS OUTSIDE OF GENERAL CONTRACTOR'S SCOPE. TIMING FOR THIS WORK WILL NEED TO BE COORDINATED WITH THE OWNER.

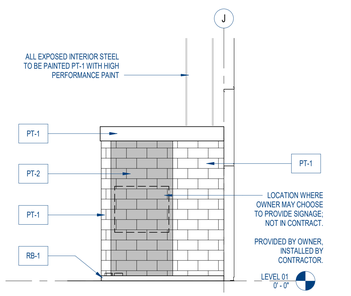
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	MILLWORK BASE / UPPER	MILLWORK TOPS	NOTES
101	OPEN PRACTICE AREA	CONC-1/TURF	RB-1	PT-1 / PT-2	NA	NA	1, 2
102	SPRINKLER	CONC-1	RB-1	PT-1	NA	NA	
103	JANITOR	CONC-1	RB-1	PT-1	NA	NA	
104	WOMEN'S TLT	CONC-1	RB-1	PT-1	NA	NA	
105	MEN'S TLT	CONC-1	RB-1	PT-1	NA	NA	

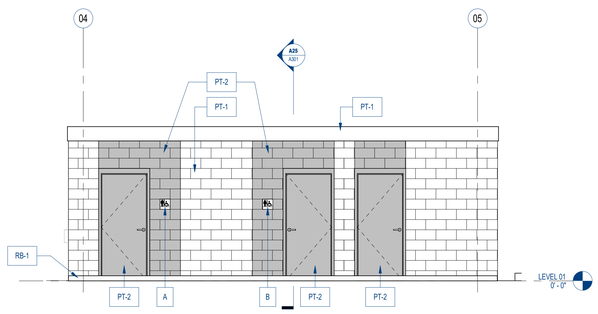
NOTES:
1. ALL BOLLARDS, STEEL GUARDRAILS, AND STEEL HANDRAILS TO BE PAINTED PT-1.
2. PROVIDE RB-1 AT INTERIOR CMU WALLS, TYPICAL.
3. (NOT USED)

ROOM FINISH LEGEND

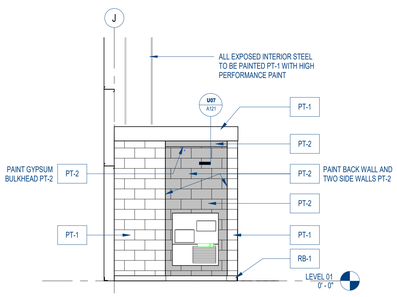
DESIGNATION	MATERIAL	MANUFACTURER	STYLE NAME or NO. (#)	COLOR NAME	NOTES
ACOUSTIC CEILING TILE					
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	SCHOOL ZONE 24X24	WHITE	SEE SPECIFICATIONS
CONCRETE					
CONC-1	POLISHED CONCRETE			CLEAR	OWNER TO CONTRACT POLISHED CONCRETE FLOOR FINISH OUTSIDE OF THIS CONTRACT. COORDINATE WITH OWNER FOR CONDITION TO LEAVE FLOORSURFACE.
GYPSUM CEILING					
GYP	GYPSUM BOARD				
PAINT					
PT-1	PAINT	SHERWIN WILLIAMS		TBD (TYPICAL WALL COLOR)	PAINT COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE. APPLY COATS IN FIELD FOR OWNER REVIEW AND APPROVAL.
PT-2	PAINT	SHERWIN WILLIAMS		TBD (MAVERICK BLUE)	PAINT COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE. APPLY COATS IN FIELD FOR OWNER REVIEW AND APPROVAL.
PT-3	PAINT	SHERWIN WILLIAMS		SAFETY YELLOW	
RESILIENT					
RB-1	RUBBER BASE	JOHNSONITE	4" COVE	20 CHARCOAL WG	
TRANSITIONS					
TR-1	TRANSITION				(NOT USED)
TURF					
TURF	TURF - OWNER PROVIDED	TBD	TBD	TBD	PROVIDED BY OWNER - NOT IN CONTRACT



Q25 ENTRY — 1/4" = 1'-0" — FINISH ELEVATION



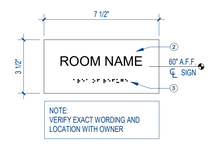
Q21 RESTROOMS — 1/4" = 1'-0" — FINISH ELEVATION



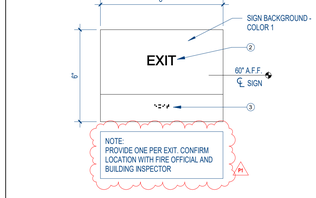
Q14 DRINKING FOUNTAIN — 1/4" = 1'-0" — FINISH ELEVATION

INTERIOR SIGNAGE

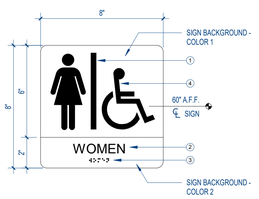
GENERAL NOTES



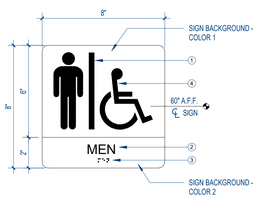
E ROOM NAME — NOT TO SCALE



D EXIT - SMALL — NOT TO SCALE



B ADA WOMEN'S RESTROOM — NOT TO SCALE



A ADA MEN'S RESTROOM — NOT TO SCALE

SIGNAGE SPECIFICATION GENERAL NOTES

A.VERIFY APPLICABLE SIGN LOCATION AND QUANTITES WITH FIRE DEPARTMENT AND ELEVATOR INSPECTOR.

B.PROVIDE EXIT SIGNS AS REQUIRED BY IBC §1011.1

SIGNAGE SPECIFICATIONS LEGEND

① 1/32" RAISED PICTOGRAM, BORDER DIMENSION 6" MIN. IN HEIGHT

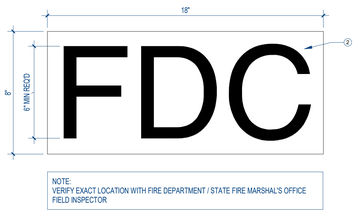
② VERBAL DESCRIPTION OF PICTOGRAM PLACED DIRECTLY BELOW CHARACTERS MUST BE 1/32" RAISED UPPER CASE SANS SERIF TYPE LETTERING AT LEAST 5/8" HIGH AND A MAXIMUM OF 2" HIGH

③ GRADE 2 BRAILLE FOR VERBAL DESCRIPTION

④ INTERNATIONAL SYMBOL OF ACCESSIBILITY

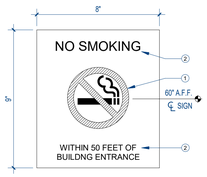
SIGNAGE SPECIFICATION GENERAL NOTES

1. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10
2. THE CHARACTERS AND BACKGROUND OF SIGN SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND
3. SIGN LOCATION: EDGE OF SIGN MUST BE WITHIN 3" OF DOOR FRAME, CL OF SIGN MUST BE MOUNTED AT 60" A.F.F. MOUNTING LOCATION SHALL BE SO THAT A PERSON CAN APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR

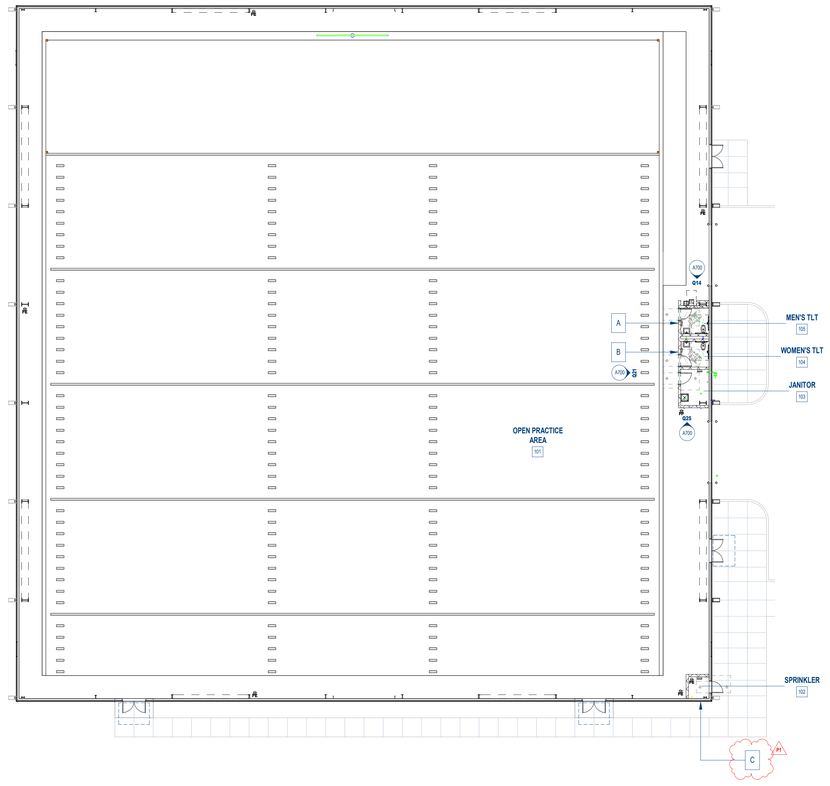


C FIRE DEPARTMENT CONNECTION — NOT TO SCALE

NOTE: ALLOW QUANTITY OF 10 SIGNS AND INSTALL AT OWNER'S DISCRETION.



A17 NO SMOKING WITHIN 50' — 3" = 1'-0"



A14 GROUND FLOOR — 1/16" = 1'-0" — FLOOR PLAN - NEW CONSTRUCTION

KEYED NOTES

ROOM FINISH SCHEDULE

1 PLACEHOLDER TEXT

TFM # 03970-F

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GREGORY SCOTT CAMPBELL — REGISTERED ARCHITECT — AGRICULTURE — 2023-11-10 — STATE OF TENNESSEE

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

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

SHEET DESCRIPTION
INTERIOR FINISH SCHEDULE

A700

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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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	ft2 =	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 (ft2)	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)

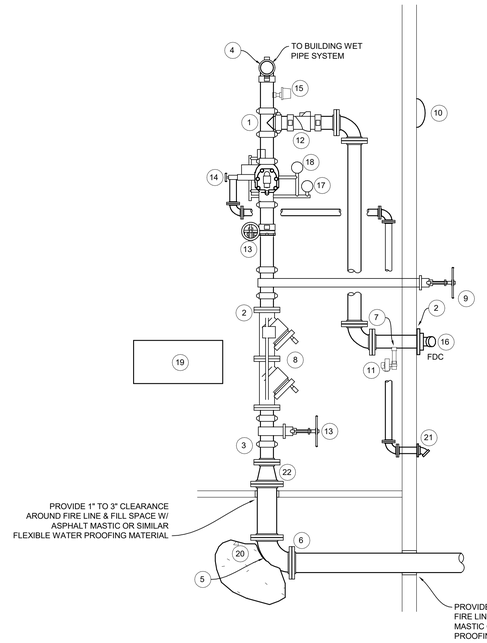
(3)

(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**

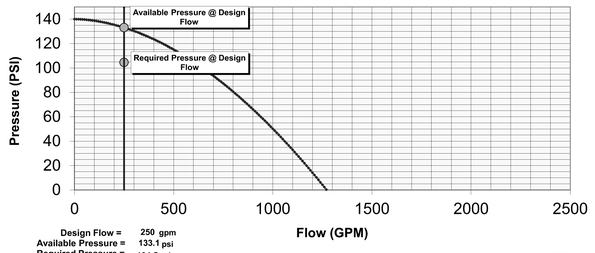


FIRE RISER DETAIL
N.T.S.

1. 4"x4"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 7/8" FIRE DEPARTMENT INLET CONNECTION - VERIFY EXACT REQUIREMENTS WITH LOCAL AHJ
17. SUPPLY PRESSURE GAUGE
18. SYSTEM PRESSURE GAUGE
19. SPARE SPRINKLER HEAD CABINET
20. CONCRETE THRUST BLOCK
21. 2" DRAIN OUTLET
22. 6"x4" CONCENTRIC REDUCER

ACS FOOTBALL PRACTICE FACILITY

Water Flow Curve



Design Flow = 250 gpm
Available Pressure = 133.1 psi
Required Pressure = 104.5 psi

Job # 23050

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.

   P1 — 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 DOWNSTREAM OF THE POS SHALL BE PERFORMED BY A STATE OF TENNESSEE REGISTERED SPRINKLER CONTRACTOR.
4. ALL SYSTEM VALVES AND GAUGES SHALL BE ACCESIBLE FOR INSPECTION AND MAINTENANCE.

P1 — TFM # 03970-F

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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

SHEET DESCRIPTION

PRELIMINARY HYDRAULIC CALCULATIONS

FP001

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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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

1. 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.

2. 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.

3. 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.

4. 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 TSFMO.

5. SEISMIC DESIGN CATEGORY "C"; BUILDING RISK CATEGORY II

6. 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 (LIGHT 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).

7. THE SPRINKLER SYSTEM SHALL BE WET TYPE.

8. 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 LESS 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-ELECTROPLATED STEEL BOLTS AND NUTS.

9. 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.

10. 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.

11. AT THE CONTRACTORS 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.

12. PIV, O.S.&Y. 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 PIV AND O.S.&Y. VALVES USED ON THE FIRE PROTECTION SYSTEM SHALL HAVE PROVISIONS FOR PADLOCKING AND SWITCHES FOR MONITORING POSITION OF THE VALVE.

13. 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 SEATNG. COMPLETE WITH WEATHERPROOF ACTUATOR AND PRE-WIRED SUPERVISORY SWITCHES.

14. 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.

15. 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 O-RINGS. 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.

16. 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.

17. CONTRACTOR TO VERIFY FIRE DEPARTMENT CONNECTION REQUIREMENTS WITH LOCAL AHJ.

18. 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.

19. 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.

20. INSTALL AN APPROVED SINGLE AIR VENT NEAR HIGHEST POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED IN A MANNER APPROVED BY NFPA.

21. 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 VISABLE AND LOCATED IN A MANNER APPROVED BY NFPA.

22. 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 ½", ¾" AND 1" SPRINKLERS.

23. ALL SPRINKLER HEADS LOCATED IN HORIZONTAL, FLAT CEILINGS IN FINISHED SPACES SHALL BE RECESSED, CHROME PENDANT TYPE HEADS. SPRINKLER HEADS IN THE PENTHOUSE, STAIRWELLS AND OTHER UNFINISHED SPACES SHALL BE BRASS UPRIGHT TYPE. TWO PIECE ESCUTCHEONS SHALL BE USED.

24. FLEXIBLE HOSE CONNECTIONS TO SPRINKLER HEADS MAY BE USED BUT SHALL BE EQUAL TO VICTAULIC AH2/AH2CC HOSE WITH AB2 BRACKET. IN LIEU OF RIGID CONNECTIONS TO DRY SPRINKLER HEADS, A VICTAULIC VICFLEX™ DRY SPRINKLER, MODEL VS1, 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 AB6 BRACKET MAY BE USED.

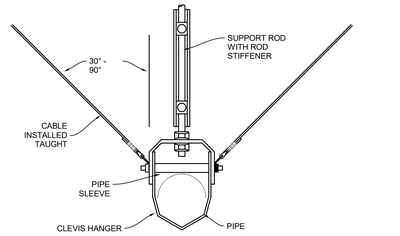
25. ALL SPRINKLER HEADS SHALL BE FURNISHED & INSTALLED WITH WIRE GYM GUARDS.

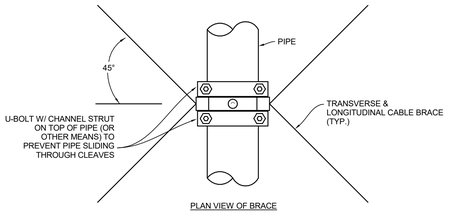
26. ALL SPRINKLER HEADS LOCATED IN ELEVATOR MACHINE ROOMS AND SHAFTS SHALL BE 212-DEGREE HEADS. THE PIPING SHALL ONLY ENTER THE SHAFT AND/OR MACHINE ROOM TO ACCOMMODATE THE LOCATION OF THE HEAD. SHUT OFF VALVES SHALL BE PROVIDED FOR EACH BRANCH LINE IN ACCESSIBLE LOCATIONS OUTSIDE OF THE EQUIPMENT ROOMS, MACHINE ROOMS, AND PITS. THESE VALVES SHALL BE LISTED AND SUPERVISED ELECTRICALLY. .

27. 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.

28. THE SPRINKLER SYSTEM SHALL COMPLY WITH ALL CODES, REQUIREMENTS, REGULATIONS AND PROVISIONS OF THE LAW OF THE STATE OF TENNESSEE AND NFPA.

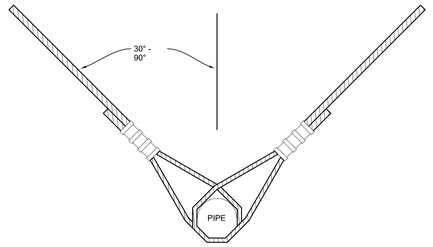
29. WORK INCLUDED HEREIN SHALL INCLUDE ALL TESTS AND INSPECTIONS BY THE INSPECTING AGENCIES AND ANY PERMITS OR INSPECTION FEES CONNECTED THEREWITH. FOLLOWING ALL TESTING, THE SYSTEM SHALL BE RETURNED TO A FUNCTIONAL AND OPERATIONAL CONDITION AT NO EXTRA COST TO THE OWNER. AFTER APPROVAL, THE CONTRACTOR SHALL OBTAIN THE APPROVAL CERTIFICATES AND DELIVER THEM TO THE ARCHITECT.

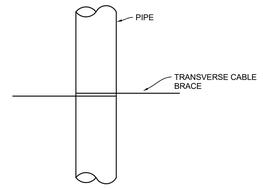




PLAN VIEW OF BRACE

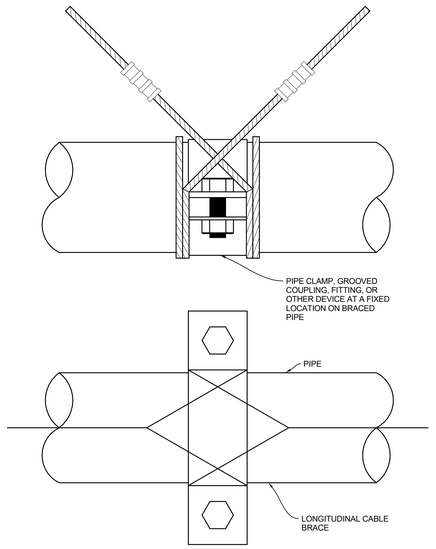
4-WAY BRACE
N.T.S.





LATERAL BRACE
N.T.S.

LATERAL SWAY BRACING SHALL BE PROVIDED ON ALL FEED & CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCH LINES & OTHER PIPING WITH A DIAMETER OF 2½" AND LARGER



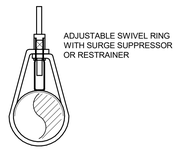
PLAN VIEW

LONGITUDINAL BRACE
N.T.S.

LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FEET ON CENTER SHALL BE PROVIDED FOR FEED & CROSS MAINS

LONGITUDINAL BRACES SHALL BE ALLOWED TO ACT AS LATERAL BRACES IF THEY ARE WITHIN 24 INCHES OF THE CENTERLINE OF THE PIPING BRACED LATERALLY

THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 40 FEET



END OF LINE BRACING DETAIL
N.T.S.

EACH END OF LINE (OR ARMOVER) SHALL BE RESTRAINED AGAINST UPWARD MOVEMENT OF PIPE DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY.

PIPING CLEARANCE - NFPA 13:

9.3.4.2 - UNLESS THE REQUIREMENTS OF 9.3.4.3, 9.3.4.4, OR 9.3.4.5 ARE MET, WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS, OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS NOMINALLY 2" LARGER THAN THE PIPE FOR PIPE 1" NOMINAL TO 3.5" NOMINAL AND 4" LARGER THAN THE PIPE FOR PIPE 4" NOMINAL AND LARGER.

9.3.4.3 - WHERE CLEARANCE IS PROVIDED BY A PIPE SLEEVE, A NOMINAL DIAMETER 2" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE IS ACCEPTABLE FOR PIPE SIZES 1" THROUGH 3.5", AND THE CLEARANCE PROVIDED BY A PIPE SLEEVE OF NOMINAL DIAMETER 4" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE IS ACCEPTABLE FOR PIPE SIZES 4" AND LARGER.

9.3.4.4 - NO CLEARANCE IS REQUIRED FOR PIPING PASSING THROUGH GYPSUM BOARD OR EQUALLY FRANGIBLE CONSTRUCTION THAT IS NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING.

9.3.4.5 - NO CLEARANCE IS REQUIRED IF FLEXIBLE COUPLINGS ARE LOCATED WITHIN 1 FT OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.

9.3.4.6 - NO CLEARANCE IS REQUIRED WHERE HORIZONTAL PIPING PASSES PERPENDICULARLY THROUGH SUCCESSIVE STUDS OR JOIST THAT FORM A WALL OR FLOOR/CEILING ASSEMBLY.

9.3.4.7 - NO CLEARANCE IS REQUIRED WHERE NONMETALLIC PIPE HAS BEEN DEMONSTRATED TO HAVE INHERENT FLEXIBILITY EQUAL TO OR GREATER THAN THE MINIMUM PROVIDED B FLEXIBLE COUPLINGS LOCATED WITHIN 1' OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.

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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

SHEET DESCRIPTION

DETAILS & SPECIFICAITONS

P1

TFM # 03970-F

FP002

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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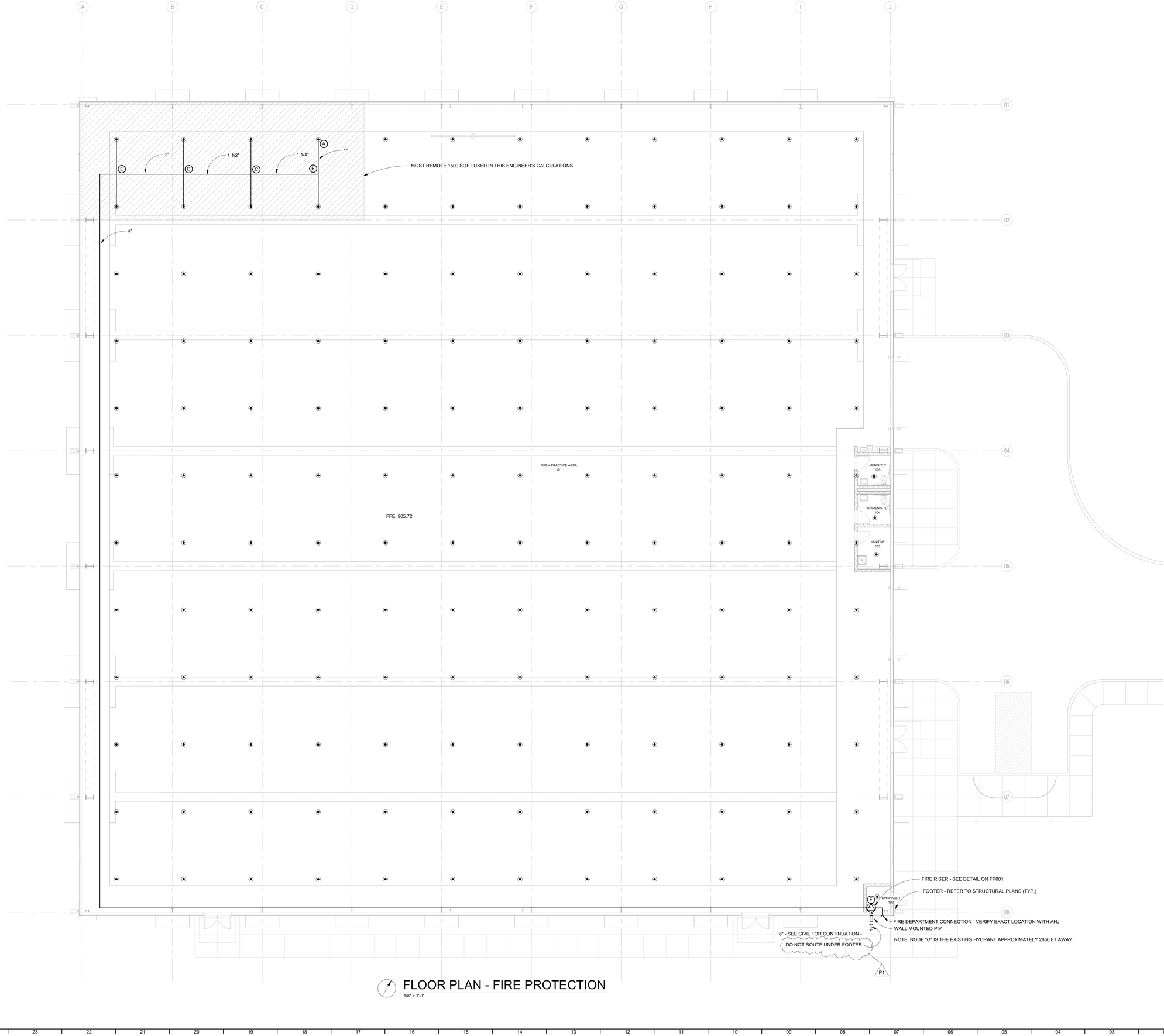

FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

P1

TFM # 03970-F

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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

SHEET DESCRIPTION

FLOOR PLAN - FIRE PROTECTION

FP101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

11/9/2023 2:32:05 PM

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-WS1 AQUAVANTAGE MANUAL OPERATED FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS.			
	SEAT	ZURN, Z5955SS-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-LRQ-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-NT COMBINATION TRAP WRAP KIT WITH ONE TRAP AND TWO SUPPLY PROTECTION WRAPS			
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER			
EWC	BOTTLE FILLER	ELKAY, LZSTL8WSSP VERSATILE HIGH SIDE BI-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, ZN415BP 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

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
2. 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.
3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
4. 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.
5. INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. 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..
7. INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC SOLID WALL-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
8. THE TOP OF ANY BELOW SLAB PIPING SHALL BE NO LESS THAN 2" FROM THE BOTTOM OF THE SLAB.
9. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS AT BASE OF ALL SOIL AND WASTE STACKS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
10. 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.
11. 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 & AND AGA GAS COCK. PAINT ALL GAS PIPING ON THE EXTERIOR AND INTERIOR OF THE BUILDING WITH TWO COATS OF CAUTION YELLOW PAINT.
12. 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.
13. DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYHLENE PEXA AS MANUFACTURED BY REHAU. FITTINGS SHALL BE AS RECOMMENDED BY THE PEX MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER, INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER.
14. ALL COLD WATER, HOT WATER AND HOT WATER RECIRCULATING LINES SHALL BE INSULATED WITH ARMAFLEX, OR EQUAL, WITH A FLAME SPREAD AND SMOKE DEVELOPED RATING NOT EXCEEDING 25 AND 50 RESPECTIVELY.

    COLD WATER
    ½" TO 1¼" PIPE - ½" THICK INSULATION
    1½" TO 8" PIPE - 1" THICK INSULATION

    HOT WATER & HOT WATER RECIRCULATING
    ½" TO 1¼" PIPE - 1" THICK INSULATION
    1" TO 8" PIPE - 1½" THICK INSULATION

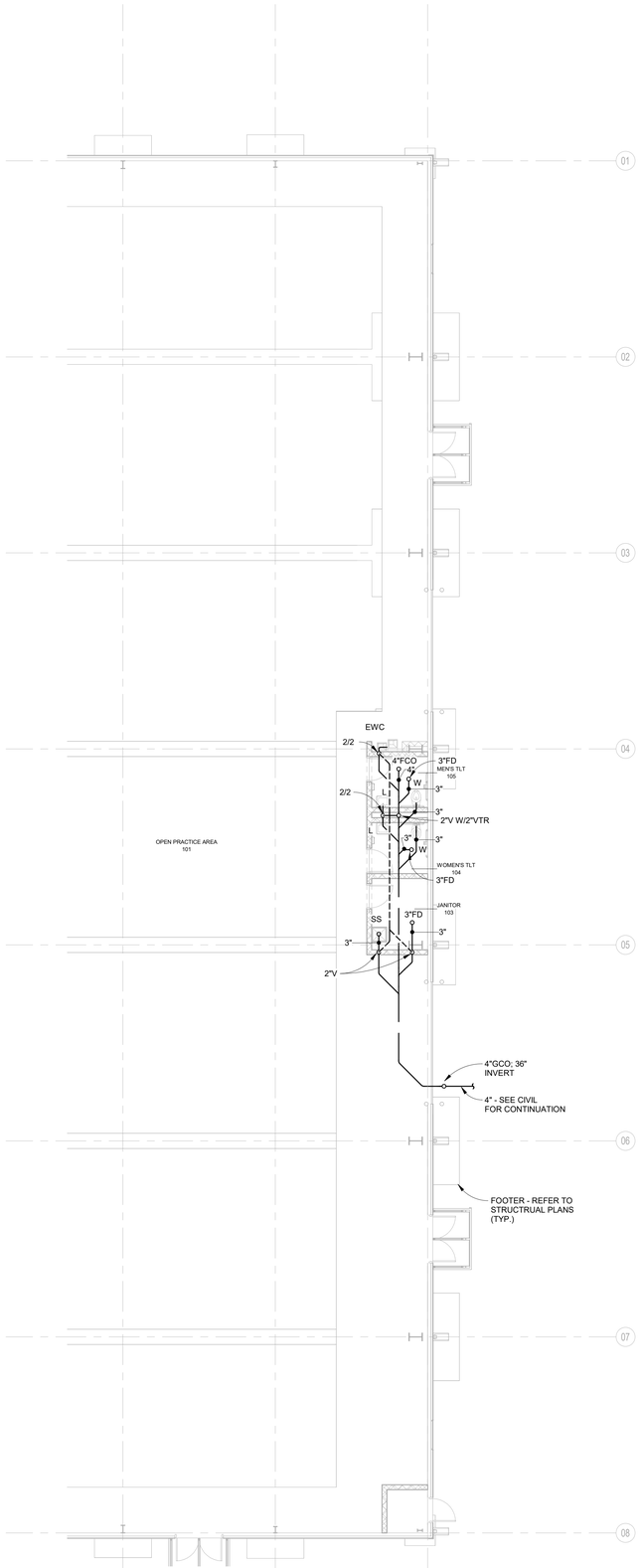
15. ALL COLD WATER PIPING IN OUTSIDE WALLS OR WALLS ADJACENT TO AN UNHEATED SPACE SHALL BE INSULATED AS SPECIFIED WITH A MINIMUM OF 1" THICKNESS.
16. THE TAILPIECE, TRAP & WATER SUPPLIES FOR ALL HANDICAPPED LAVATORIES SHALL BE INSULATED WITH MOLDED ANTIMICROBIAL INSULATION KIT EQUAL TO TRUEBRO, INC. HANDI-LAV GUARD. VERIFY COLOR WITH THE ARCHITECT.
17. WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE CALLED FOR ON THE DRAWINGS AND BE ZURN SERIES Z-1700 SHOKTROL, OR EQUAL WITH NESTING TYPE BELLOWS. THE CASING AND BELLOWS 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.
18. FIRE STOPPING SYSTEM SHALL BE PROVIDED AND INSTALLED THROUGH ALL FIRE RATED WALLS, CEILINGS, FLOORS, PARTITIONS OR CONSTRUCTION.
19. 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.
20. LAVATORY AND SINK STRAINERS AND TAILPIECES SHALL BE OFFSET MEETING ADA REQUIREMENTS WHERE REQUIRED TO ACCOMMODATE CASEWORK. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK DETAILS.
21. 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).
22. 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 THUS FILLED 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.
23. 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

- WASTE ABOVE GRADE
- WASTE BELOW GRADE
- VENT
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATING
- NATURAL GAS
- BALL VALVE
- CHECK VALVE
- ZURN SIZE 100 SHOKTROL (Z-100)
- UNION
- PRESSURE GAUGE W/ LEVER HANDLE COCK. RANGE ON DWG.
- GAS COCK

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
2/3	2"VS/3"WS



FLOOR PLAN - WASTE

1/8" = 1'-0"

P1

TFM # 03970-F

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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

SHEET DESCRIPTION

FLOOR PLAN - WASTE

P101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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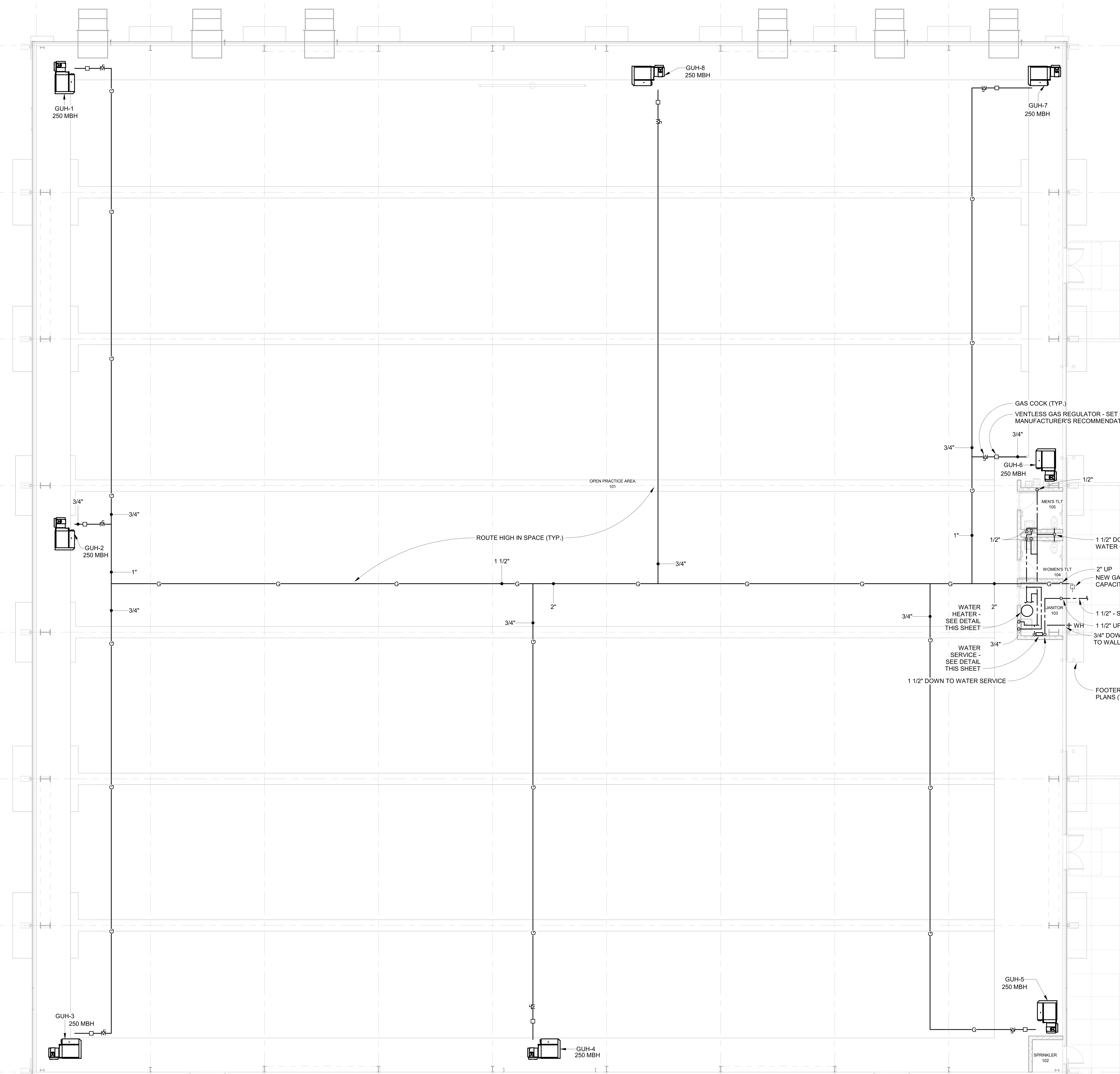
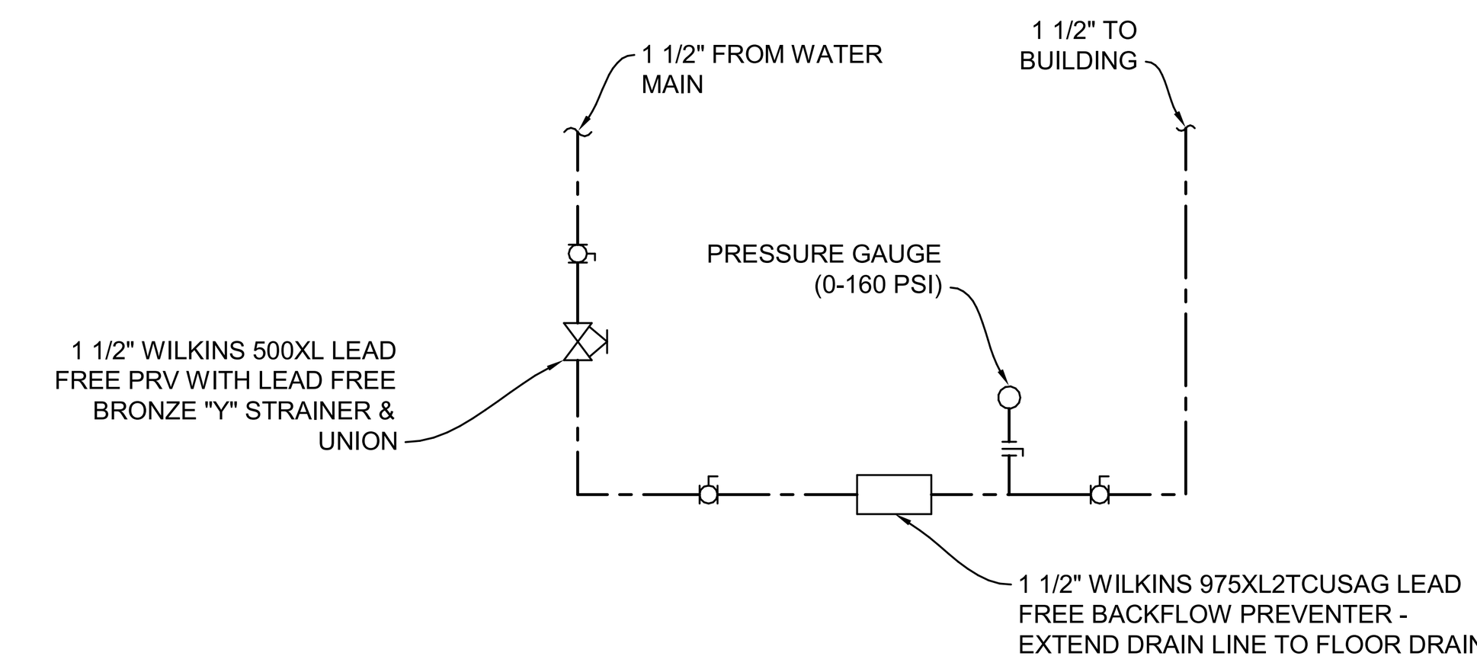
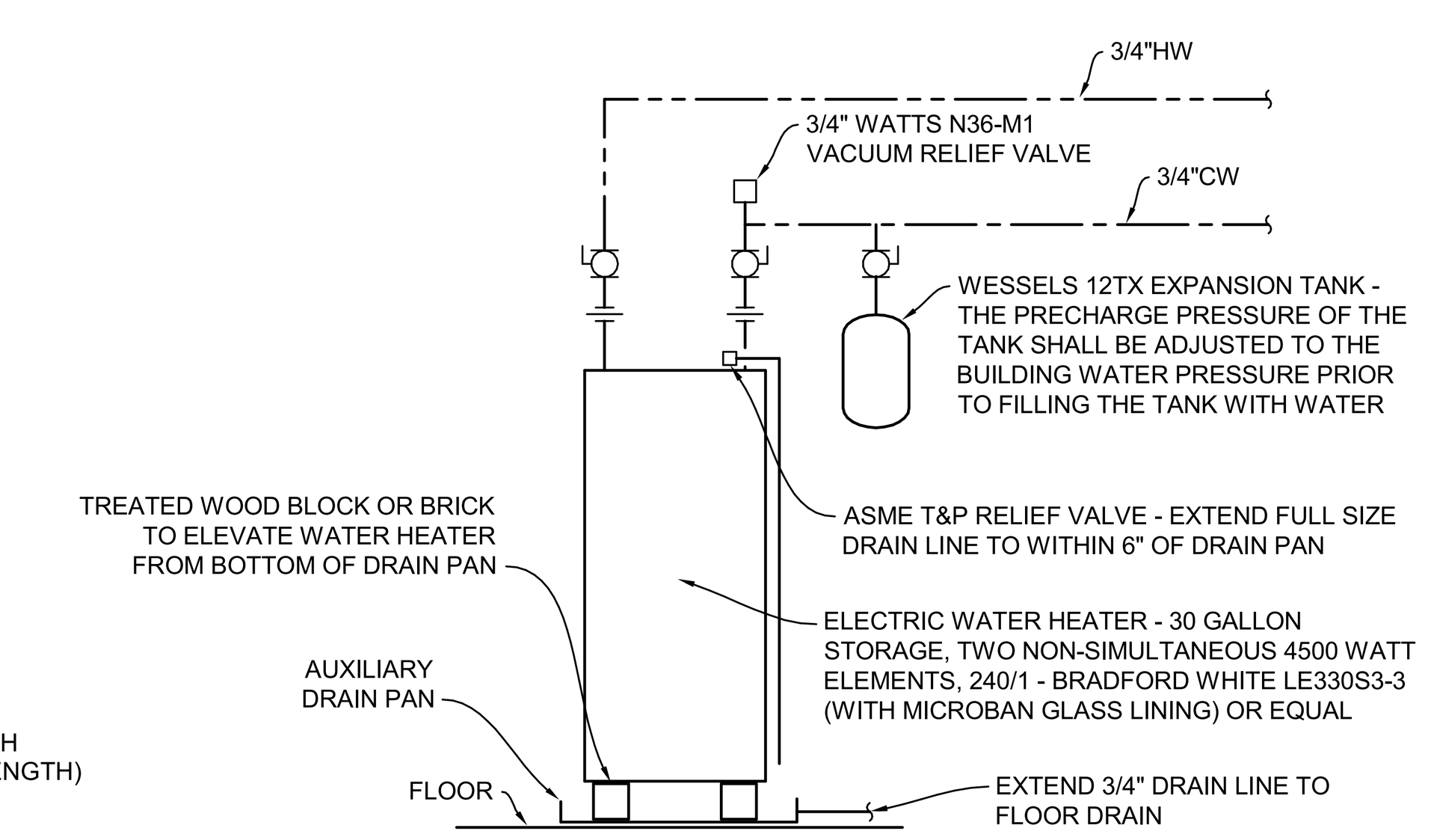


FLOOR PLAN - WATER & GAS
1/8" = 1'-0"



WATER SERVICE DETAIL
N.T.S.



WATER HEATER PIPING DIAGRAM
N.T.S.

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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

SHEET DESCRIPTION
FLOOR PLAN - WATER & GAS

P1
TFM # 03970-F

P201

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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HVAC SPECIFICATIONS

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
2. 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.
3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
4. 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.
5. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. 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).
7. 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.
8. 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.
9. 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.
10. 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.
11. ANY CUTS OR PENETRATIONS THROUGH THE EXISTING ROOF SHALL BE REPAIRED AND MADE WATERTIGHT IN A MANNER TO MAINTAIN THE EXISTING ROOF WARRANTY.
12. WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
13. 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.
14. 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.
15. 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:

1. VERIFY VOLTAGE W/ ELECTRICA DRAWINGS BEFORE ORDERING EQUIPMENT
2. 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. WEATERHOOD W/ BIRDSCREEN
3. INTERNOCK EF-1,2,3,4,5,6 WITH CORRESPONDING INTAKE LOUVER - SEE FLOOR PLAN
4. EF 5,6,7 SHALL BE FURNISHED WITH EC MOTER, SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP W/ BIRDSCREEN
5. 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	MFGR & 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 UBZ 250	425

NOTES:

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

ELECTRIC WALL HEATER (EWH) SCHEDULE

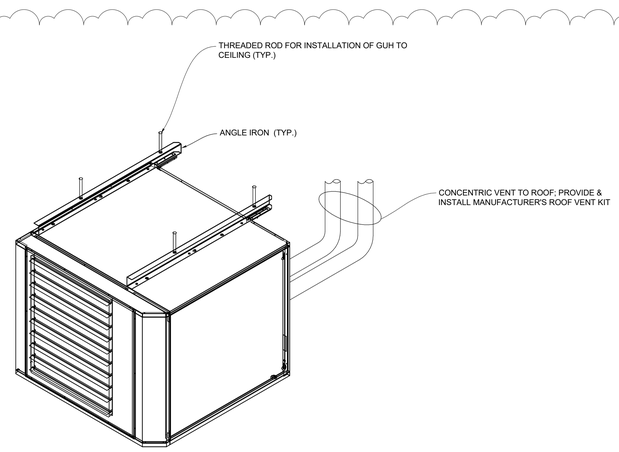
MARK	WATTS	VOLTS/ PHASE	MFR MODEL
(1)(2)(3)(4)	1500	208-1	MARKEL SERIES 3320

NOTES:

1. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
2. HEATER SHALL BE FURNISHED W/ DISCONNECT SWITCH & OVERHEAT PROTECTION
3. HEATER SHALL BE FURNISHED WITH INTEGRAL THERMOSTAT

DUCT LEGEND

6"x6" EXHAUST DUCT



CEILING MOUTNED UNIT HEATER DETAIL

NTS

NOTE:

1. VERIFY EXACT INSTALLATION AND CONCENTRIC VENT REQUIREMENTS WITH MANUFACTURER

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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

SHEET DESCRIPTION
SCHEDULES

P1 TFM # 03970-F

M001

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

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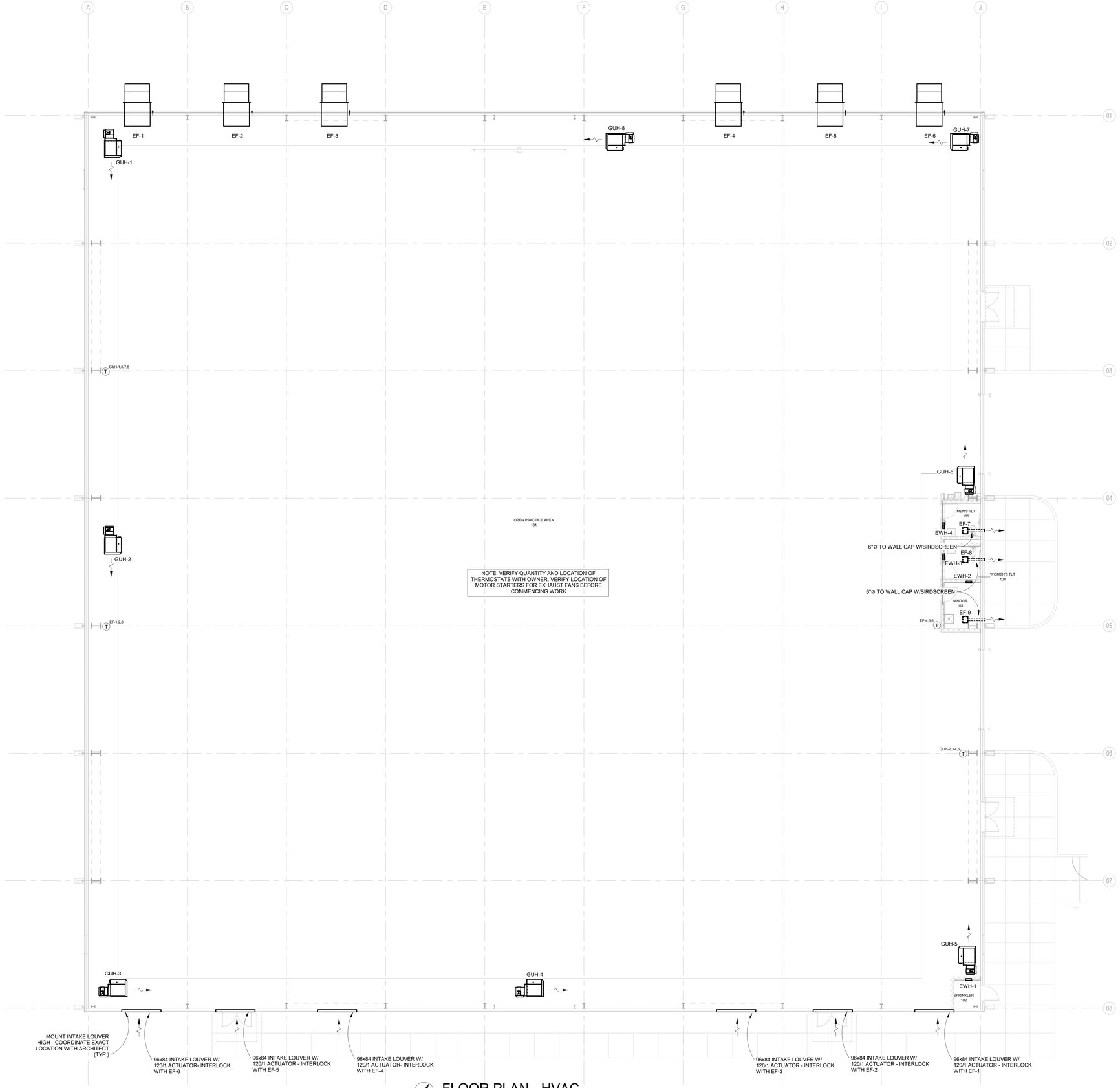

FLOOR PLAN - HVAC

1/8" = 1'-0"

P1

TFM # 03970-F

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A NEW PROJECT FOR:

ANDERSON COUNTY SPORTS TRAINING FACILITY

ANDERSON COUNTY, TN

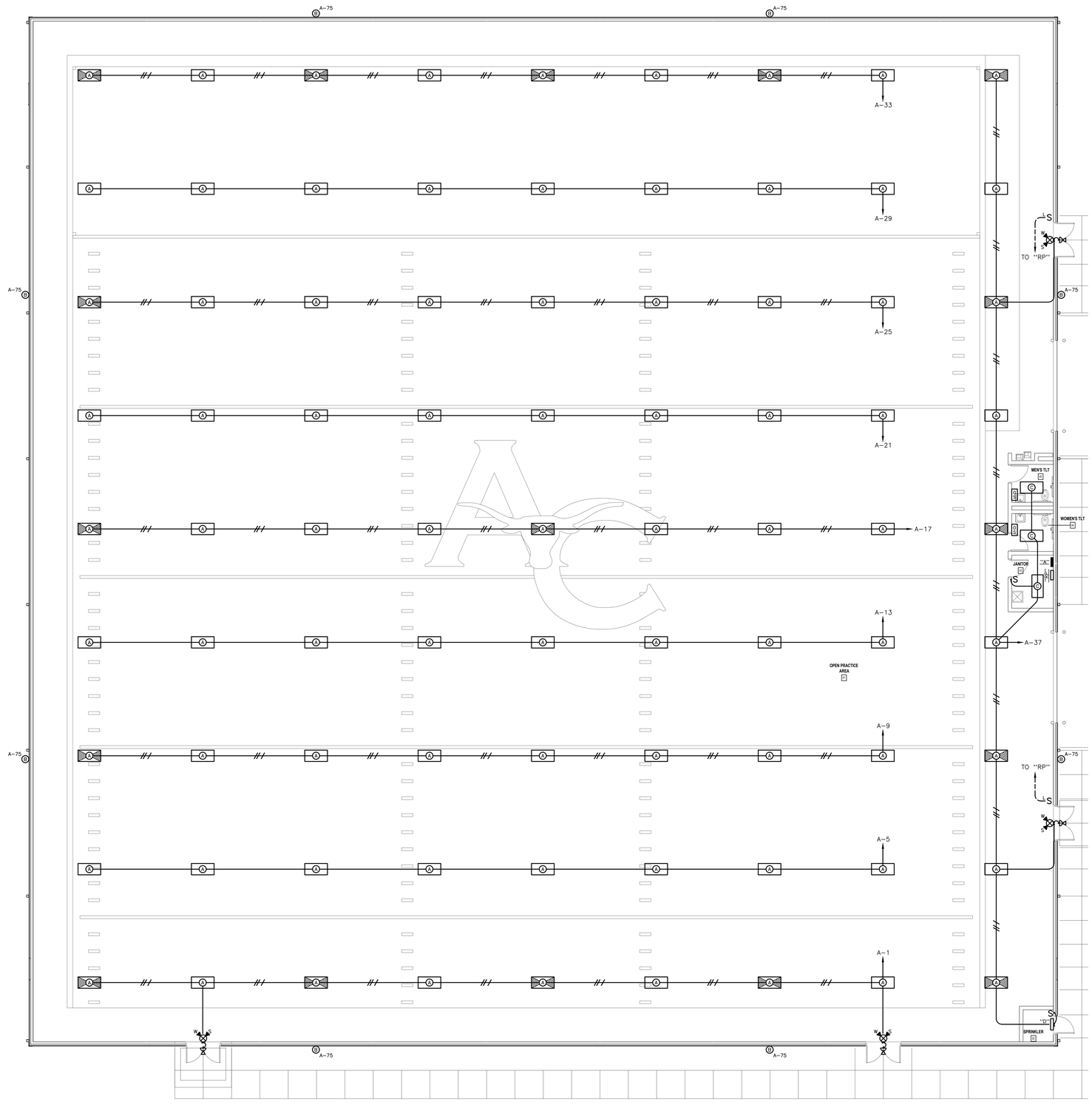
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

SHEET DESCRIPTION

FLOOR PLAN - HVAC

M101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030



FLOOR PLAN – LIGHTING

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

0' 4' 8' 16'

LIGHTING NOTES:

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

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AARON ANDREW LOVE
REGISTERED ARCHITECT
ARCHITECTURE
10-17-23
STATE OF TENNESSEE

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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

SHEET DESCRIPTION

FLOOR PLAN - LIGHTING

1 TFM#03970-F

E101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

Anderson County HS Football Practice Facility - Floor Plan - Lighting.dwg
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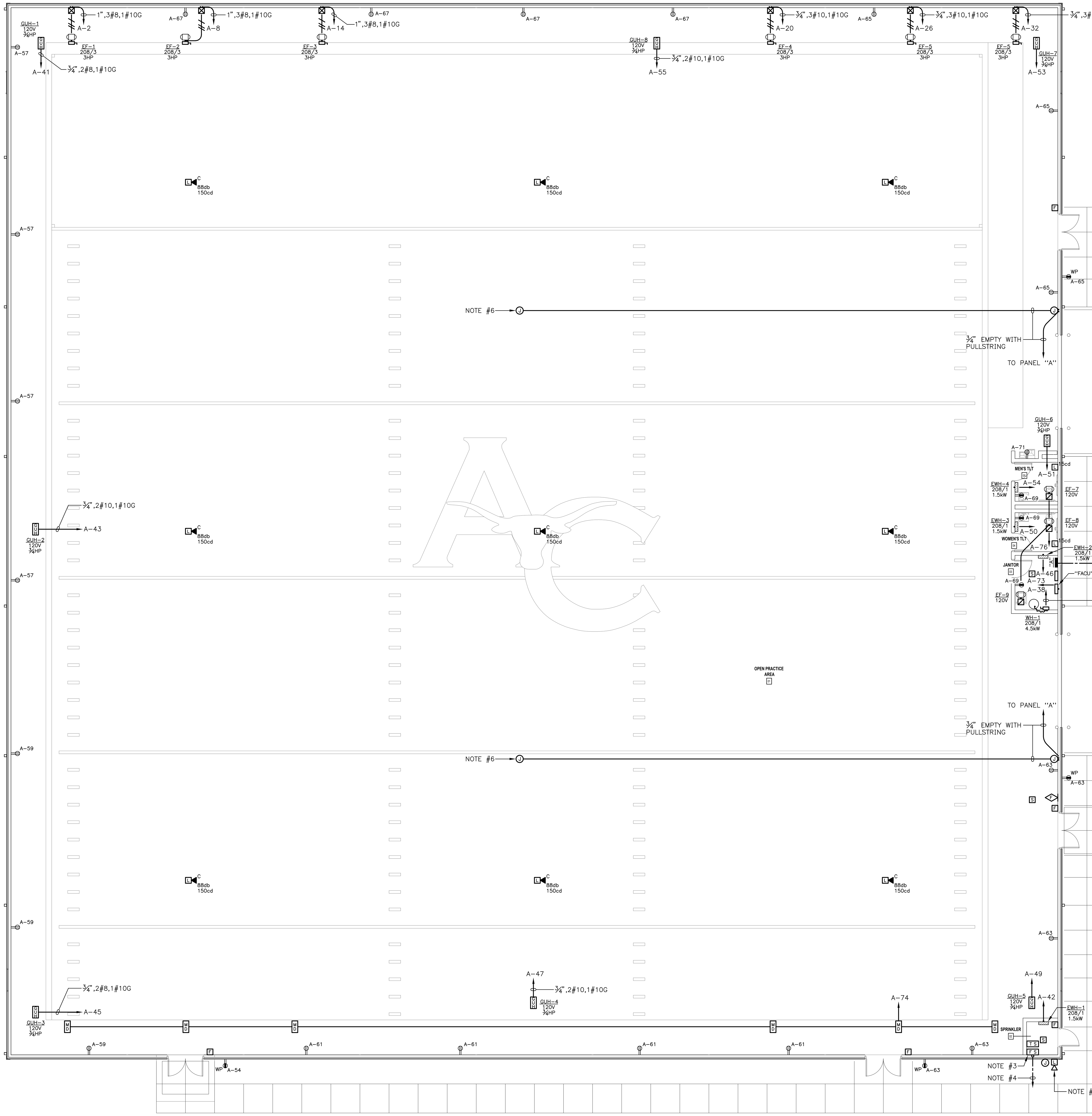
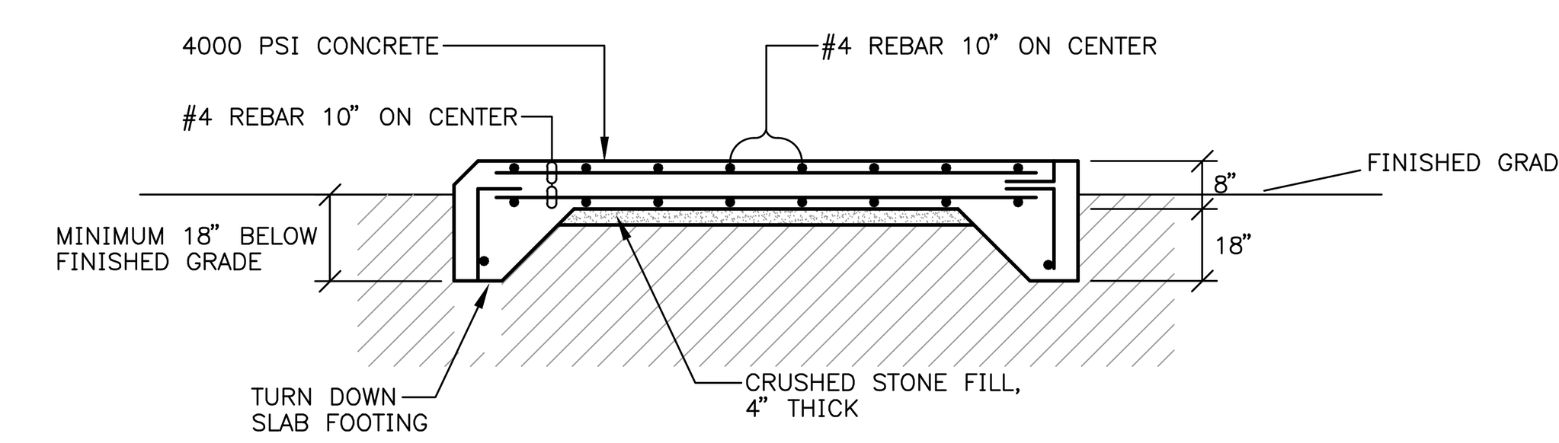


FLOOR PLAN – ELECTRICAL

SCALE: ⅛"=1'–0"

0' 4' 8' 16'



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 ¾" 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. NEW UNDERGROUND PRIMARY LINE PROVIDED BY ANDERSON COUNTY SCHOOLS. CLOSELY COORDINATE LOCATION AND REQUIREMENTS WITH OWNER.

TFM#03970–F

Anderson County HS Football Practice Facility – Floor Plan – Electrical.dwg
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A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

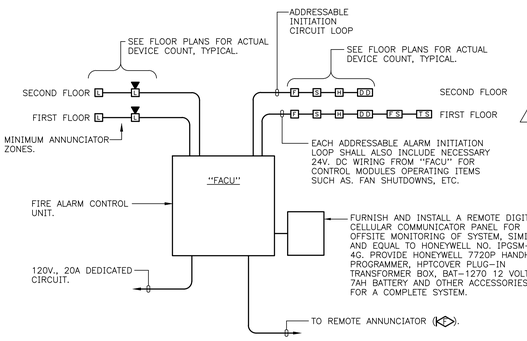
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
P2	PERMITTING	2023-12-08
0	BIDDING	2024-09-24

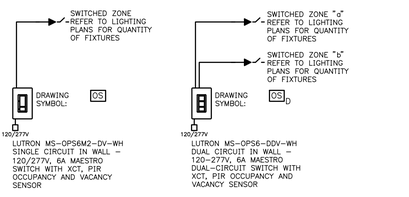
SHEET DESCRIPTION

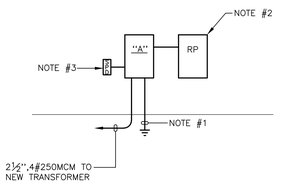
FLOOR PLAN - ELECTRICAL

E102

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030







FIRE ALARM RISER DIAGRAM

N.T.S.

FIRE ALARM NOTES:

1. THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32. CALL 615-741-9771 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL SUBMIT BATTERY CALCULATIONS FOR NEW FIRE ALARM SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72. BATTERY CALCULATIONS SHALL BE INCLUDED AS PART OF SUBMITTALS FOR FIRE ALARM SYSTEM.
3. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM (NFPA 101 9.6.1.9 AND IFC 901.6.2.1).
4. THE FIRE ALARM CONTROL UNIT CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT
5. TWO OR MORE VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION. (NFPA 72 7.5.4.1.1 AND 7.5.4.1.2(3))
6. PROVIDE VOICE EVACUATION FIRE ALARM SYSTEM IN ACCORDANCE WITH PROJECT MANUAL REQUIREMENTS. VOICE EVACUATION SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72(3.3.208), NFPA 101(12.3.4, 9.6.2, 9.6.3.), AND IBC (907.2.1.1 AND 907.5.2.2). VOICE ANNOUNCEMENTS SHALL BE PRE-RECORDED AND SHALL BE AUDIBLE ABOVE AMBIENT NOISE LEVEL IN ACCORDANCE WITH CODE REQUIREMENTS. STANDBY BATTERIES IN FACP SHALL BE SIZED TO SERVE REQUIRED VOICE ANNOUNCEMENTS.
7. DIGITAL ALARM COMMUNICATION SYSTEMS WHERE APPLICABLE SHALL BE INSTALLED AS PER THE FOLLOWING:
   - A. DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) SHALL BE CONNECTED TO THE UL S789 LISTED EXTERNAL REMOTE SINGLE OR DUAL PATH COMMERCIAL FIRE COMMUNICATOR IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS. COMMUNICATOR SHALL BE PROGRAMMED TO OPERATE OVER COMMON CELLULAR NETWORKS INCLUDING 2G, 3G, AND 4G.
     1. SYSTEM SHALL BE CONFIGURED TO PROVIDE SELECTABLE REPORTING PATHS PER NFPA 72, CHAPTER 26. SYSTEM SUPERVISION INTERVALS SHALL BE PROVIDED TO MEET NFPA 72 CHAPTER 26 REQUIREMENTS FOR SYSTEM SUPERVISION.
     2. SYSTEM SHALL CONTAIN A DIALER CAPTURE MODULE WHICH AUTOMATICALLY DETECTS A FIRE ALARM SYSTEM EVENT AT THE FACP AND PROVIDES A DIAL TONE TO ALLOW FACP MESSAGE TRANSMISSION TO THE CENTRAL STATION VIA THE GLOBAL SYSTEM FOR MOBILE (GSM) DIGITAL CELLULAR NETWORK IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA.

TYPICAL IN WALL SENSOR LIGHTING CONTROL DETAIL

NO SCALE

ELECTRICAL SPECIFICATIONS

1. SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.
2. CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
3. POWER SERVICE: POWER SERVICE SHALL BE TAKEN UNDERGROUND AT 120/208-VOLTS, 3-PHASE, 4-WIRE, WYE FROM NEW PADMOUNTED TRANSFORMER AS INDICATED ON DRAWINGS AND AS SET FORTH HEREINAFTER. CAREFULLY ARRANGE POWER SERVICE WITH OWNER PRIOR TO COMMENCING WITH WORK. ALL POWER SERVICE WORK DONE ON THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH RULES AND REGULATIONS OF ANDERSON COUNTY SCHOOLS.
4. WIRING METHODS: UNDERGROUND POWER AND COMMUNICATION WIRING SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT, WITH RIGID STEEL ELBOWS UTILIZED WHERE CONDUITS TURN UP THROUGH FLOOR SLAB. EXPOSED CONDUIT ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. INSIDE THE BUILDING, ALL WIRING SHALL BE RUN OVERHEAD IN ELECTRIC-METALLIC TUBING (EMT). WIRING SHALL BE RUN CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. EXPOSED WIRING WILL BE PERMITTED IN MECHANICAL/ELECTRICAL ROOMS, JANITORS CLOSETS, WAREHOUSE, ETC. OTHERWISE, ALL WIRING SHALL BE RUN CONCEALED INSIDE THE BUILDING. ALL CONDUCTORS ON THE PROJECT SHALL BE COPPER WITH "THHN/THWN" INSULATION. COLOR CODE CONDUCTORS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS.
5. PANELBOARDS: FURNISH AND INSTALL NEW PANELBOARDS WHERE INDICATED ON DRAWINGS. NEW PANELBOARDS SHALL BE EQUAL TO SQUARE D COMPANY "NQ" SERIES WITH COPPER BUSING, BOLT-ON TYPE CIRCUIT BREAKERS, AND MAINS/AIC RATING AS ILLUSTRATED ON DRAWINGS. SIMILAR AND EQUAL EQUIPMENT BY EATON, SIEMENS, AND GENERAL ELECTRIC WILL BE APPROVED FOR USE. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY IN EACH PANELBOARD INDICATING LOADS SERVED.
6. SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE SAFETY SWITCHES WHERE INDICATED ON DRAWINGS. SAFETY SWITCHES SHALL BE HORSEPOWER-RATED, QUICK-MAKE, QUICK-BREAK, WITH ARC SHIELDS WITH ENCLOSED CONSTRUCTION. SAFETY SWITCHES LOCATED OUTDOORS SHALL BE HOUSED IN NEMA 3R ENCLOSURES. INSIDE THE BUILDING, UTILIZE NEMA 1 ENCLOSURES FOR SAFETY SWITCHES. PROVIDE FUSING IN SAFETY SWITCHES IN ACCORDANCE WITH UNIT NAMEPLATE DATA. COORDINATE MOUNTING OF ALL SAFETY SWITCHES WITH OTHER TRADES AS REQUIRED PRIOR TO COMMENCING ROUGH-IN.
7. LIGHTING FIXTURES: FURNISH AND INSTALL LIGHTING FIXTURES WHERE NOTED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE AND FLOOR PLANS FOR REQUIREMENTS. EACH LIGHTING FIXTURE SHALL BE SUPPORTED FROM BUILDING STRUCTURE IN ACCORDANCE WITH CODE REQUIREMENTS. PROVIDE LAMPING FOR LIGHTING FIXTURE IN ACCORDANCE WITH LIGHTING FIXTURE SCHEDULE REQUIREMENTS.
8. WIRING DEVICES: FURNISH AND INSTALL WIRING DEVICES (WALL SWITCHES, DUPLEX PLUG RECEPTACLES, ETC.) WHERE INDICATED ON DRAWINGS. ALL WIRING DEVICES IN THE BUILDING SHALL BE SPECIFICATION GRADE WITH A MINIMUM RATING OF 20-AMPERES. THE USE OF 15-AMPERE DEVICES SHALL NOT BE PERMITTED. DEVICE COLOR SHALL BE AS DIRECTED BY ARCHITECT. COVERPLATES SHALL BE STAINLESS STEEL.
9. PADMOUNTED TRANSFORMER: TRANSFORMER SHALL BE 3-PHASE, OIL-IMMERSED, SELF-COOLED, 60HERTZ, AND 65 DEGREE RISE. PRIMARY VOLTAGE SHALL BE 13,200-VOLTS, DELTA; SECONDARY VOLTAGE SHALL BE 208Y/120. PROVIDE FOUR 2-2½% FULL CAPACITY PRIMARY TAPS, TWO ABOVE AND TWO BELOW RATED VOLTAGE. UNIT SHALL BE DEAD-FRONT WITH COPPER WINDINGS.
10. FIRE ALARM SYSTEM: FURNISH AND INSTALL A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING. EQUIPMENT SPECIFIED HEREIN IS THAT BY FIRE-LITE.
    - A. NEW CONTROL UNIT SHALL BE ADDRESSABLE WITH BATTERY SUPPLY, INCLUDING CHARGER. USE FIRE-LITE ES-200X.
    - B. REMOTE ANNUNCIATOR SHALL BE LCD, 80-CHARACTER, FIRE-LITE MODEL NO. ANN-80.
    - C. MANUAL STATIONS SHALL BE ADDRESSABLE FIRE-LITE BG-12 SERIES.
    - D. CEILING-MOUNTED SMOKE DETECTORS SHALL BE ADDRESSABLE, INTELLIGENT, PHOTOELECTRIC TYPE, FIRE-LITE MODEL SD365.
    - E. HEAT DETECTORS SHALL BE COMBINATION RATE-OF-RISE, FIXED TEMPERATURE TYPE.
    - F. BASES FOR INTELLIGENT DETECTOR SHALL BE FIRE-LITE MODEL NO. B200S.
    - G. DUCT DETECTORS SHALL BE PHOTOELECTRIC, ADDRESSABLE, INTELLIGENT TYPE, FIRE-LITE MODEL NO. D355PL. PROVIDE WEATHERPROOF HOUSINGS WHERE LOCATED OUTDOORS. PROVIDE REMOTE TEST SWITCH FOR EACH DUCT DETECTOR. EQUIP EACH DUCT DETECTOR WITH NECESSARY SAMPLING TUBES. DUCT DETECTORS WILL BE FURNISHED BY ELECTRICAL TRADE, INSTALLED IN DUCTWORK BY MECHANICAL TRADE, AND CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL TRADE. ARRANGE FOR UNIT SHUTDOWN WITH MECHANICAL CONTRACTOR A REQUIRED. PROVIDE ADDRESSABLE MONITOR AND CONTROL MODULES AS REQUIRED.
    - H. PROVIDE FLASHING STROBE LIGHTS AS INDICATED ON DRAWINGS. STROBE LIGHTS SHALL BE FIRE-LITE L-SERIES. CANDELA RATING AS NOTED ON DRAWINGS.
    - I. CEILING-MOUNTED COMBINATION AUDIO/VISUAL DEVICES SHALL BE PROVIDED WHERE SHOWN. UNITS SHALL BE FIRE LITE L-SERIES WITH CANDELA RATING AS NOTED ON DRAWINGS.
    - J. MONITORING MODULE UNIT SHALL BE FIRE-LITE MODEL NO. MMF-300.

    INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. COLOR CODE ALL CONDUCTORS. ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY SYSTEM, MINIMUM SIZE 1/2" PLENUM-RATED "OPEN" CABLING SHALL BE PERMISSIBLE ABOVE ACCESSIBLE LAY-IN CEILINGS PROVIDED THAT NEC REQUIRED SUPPORTING MEANS FOR ALL CABLING IS PROVIDED. AT COMPLETION OF WORK, PROVIDE COMPLETE TESTING OF SYSTEM. INCLUDE SUCCESSFUL TEST REPORTS AS PART OF PROJECT CLOSE-OUT DOCUMENTS.
11. GROUNDING: FURNISH AND INSTALL GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE A SEPARATE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW WIRING RUNS. SEPARATE GROUNDING CONDUCTOR IS GENERALLY NOT INDICATED ON DRAWINGS BUT SHALL BE REQUIRED. GROUND EQUIPMENT AND LIGHTING FIXTURES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE SERVICE GROUNDING CONSISTING OF THREE (3) 5/8" X 8' DRIVEN COPPERWELD GROUND RODS LOCATED 15'-0" FROM EACH OTHER AND BONDED TOGETHER BY CADWELD PROCESS WITH #3/0 COPPER GROUNDING CONDUCTOR. EXTEND #3/0 AWG GROUNDING CONDUCTOR AND BOND TO SYSTEM NEUTRAL/GROUND BUS AT MAIN DISCONNECT SWITCH FOR BUILDING. ALSO, EXTEND A #2 AWG COPPER GROUNDING CONDUCTOR AND BOND TO REBAR IN STRUCTURAL STEEL FOOTING. EXTEND A #2 AWG COPPER GROUNDING CONDUCTOR AND BOND TO MAIN METALLIC COLD WATER PIPE WHERE IT ENTERS BUILDINGS. GROUND BY DIRECT CONNECTION ALL INTERIOR PIPING SYSTEMS.
12. SUBMITTALS: PROVIDE MATERIAL FOR REVIEW BY ARCHITECT AND ENGINEER. SUBMITTALS SHALL INCLUDE MANUFACTURER'S CUT SHEETS WITH SPECIFIC MODEL NUMBERS IDENTIFIED AS THEY APPLY TO THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES , EMERGENCY LIGHTING, EXIT SIGNS, WIRING DEVICES, AND SWITCHGEAR.
13. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB.

LIGHTING FIXTURE SCHEDULE

	ILLUMINATION				MOUNTING				DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFACTURER'S PRODUCT ITEM		✱ EQUAL PRODUCT PERMITTED		REMARKS
					CEILING			WALL						
DESIGNATION	WATTS	DELIVERED LUMENS	COLOR TEMPERATURE (°K)	MINIMUM CRI	PENDANT STEM LENGTH	SURFACE	RECESSED	HEIGHT ABOVE FINISHED FLOOR OR GRADE		COMPANY	CATALOG NO.	YES	NO	
A	309	45000	5000	80	+30" AFF				2'X4' LED HIGH BAY	LUX DYNAMICS	L4DA-850-2-U10-CP2-B-5/10-10Y24-OC-GYM	•		
B	120	15000	5000	80				+25'	LED WALL PACK	EVO	WGH3-LSCS	•		
C	35	4500	4000	80			•		2'X4' LED FLAT PANEL	CURRENT	CFP24-41CS-HE	•		
D	24	2800	4000	80				+84"	2' LED STRIP	CURRENT	LCL-2-40ML-EU	•		

✱ UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCY OF SUBSTITUTION.

PANEL (A)
MAINS: 250A
MAIN BREAKER: YES
FEEDER SIZE: #250MCM
VOLTAGE/PHASE: 120/208V,3Ø,4W
SHORT CKT. CAPACITY: 10,000
FED FROM: UTILITY
MOUNTING: SURFACE
ENTRY: TOP
BUS: COPPER

CKT. NO.	SERVES	LOAD (kVA)			BREAKER		BREAKER		LOAD (kVA)			SERVES	CKT. NO.
		ØA	ØB	ØC	TRIP	POLE	POLE	TRIP	ØA	ØB	ØC		
1	LIGHTING	1.2			20	2	3	20	1.3			EF-1	2
3			1.2		│	│	│	│		1.3			4
5	LIGHTING			1.2	20	2	│	│			1.3		6
7		1.2			│	│	3	20	1.3			EF-2	8
9	LIGHTING		1.2		20	2	│	│		1.3			10
11				1.2	│	│	│	│			1.3		12
13	LIGHTING	1.2			20	2	3	20	1.3			EF-3	14
15			1.2		│	│	│	│		1.3			16
17	LIGHTING			1.2	20	2	│	│			1.3		18
19		1.2			│	│	3	20	1.3			EF-4	20
21	LIGHTING		1.2		20	2	│	│		1.3			22
23				1.2	│	│	│	│			1.3		24
25	LIGHTING	1.2			20	2	3	20	1.3			EF-5	26
27			1.2		│	│	│	│		1.3			28
29	LIGHTING			1.2	20	2	│	│			1.3		30
31		1.2			│	│	3	20	1.3			EF-6	32
33	LIGHTING		1.2		20	2	│	│		1.3			34
35				1.2	│	│	│	│			1.3		36
37	LIGHTING	1.4			20	2	2	30	2.2			WATER HEATER	38
39			1.4		│	│	│	│		2.2			40
41	GUH-1			0.8	20	1	2	20			0.8	EWH-1	42
43	GUH-2	0.8			20	1	│	│	0.8				44
45	GUH-3		0.8		20	1	2	20		0.8		EWH-2	46
47	GUH-4			0.8	20	1	│	│			0.8		48
49	GUH-5	0.8			20	1	2	20	0.8			EWH-3	50
51	GUH-6		0.8		20	1	│	│		0.8			52
53	GUH-7			0.8	20	1	2	20			0.8	EWH-4	54
55	GUH-8	0.8			20	1	│	│	0.8				56
57	RECEPTACLES		0.8		20	1	2	20		0.0		FUTURE HVLS FAN	58
59	RECEPTACLES			0.8	20	1	│	│			0.0		60
61	RECEPTACLES	0.8			20	1	2	20	0.0			FUTURE HVLS FAN	62
63	RECEPTACLES		0.8		20	1	│	│		0.0			64
65	RECEPTACLES			0.8	20	1	2	20			0.0	SPARE	66
67	RECEPTACLES	0.8			20	1	│	│	0.0				68
69	RECEPTACLES		0.8		20	1	2	20		0.0		SPARE	70
71	DRINKING FOUNTAIN			0.2	20	1	│	│			0.0		72
73	FACU	1.0			20	1	1	20	0.2			MOTORIZED DAMPERS	74
75	EXTERIOR LIGHTING		1.0		20	1	1	20		0.2		EF-7,8,9	76
77	SPARE				20	1	1	20				SPARE	78
79	SPARE				20	1	3	30				SURGE PROTECTION	80
81	SPARE				20	1	│	│					82
83	SPARE				20	1	│	│					84
SUB TOTAL CONNECTED		13.6	13.6	11.4					12.6	11.8	10.2	SUB TOTAL CONNECTED	

SUB TOTAL CONNECTED ØA: 26.2 SUB TOTAL CONNECTED ØB: 25.4 SUB TOTAL CONNECTED ØC: 21.6 TOTAL CONNECTED: 73.2

NOTES:

1. PROVIDE GFCI BREAKER FOR CIRCUIT NO. 71.

FEEDER DIAGRAM

N.T.S.

FEEDER NOTES:

1. PROVIDE SERVICE GROUNDING, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE LIGHTING RELAY PANEL, HUBBELL CX-162S16TNM. PANEL SHALL CONTAIN 16 RELAYS AND SOLID STATE PROGRAMMABLE 365-DAY ASTRONOMICAL TIMECLOCK.
3. PROVIDE SURGE PROTECTIVE DEVICE(SPD), INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

L E G E N D

SYMBOL	DESCRIPTION
b Ⓐ✱ 3	LED LIGHTING FIXTURE; "A" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "b" REFERS TO SWITCH CONTROL AND "3" REFERS TO CIRCUIT NUMBER. ASTERISK (✱) INDICATES LUMINAIRE TO BE EQUIPPED WITH BATTERY PACK FOR EGRESS LIGHTING.
a Ⓑ 2	LED LIGHTING FIXTURE; "B" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE; "a" REFERS TO SWITCH CONTROL; AND "2" REFERS TO CIRCUIT NUMBER.
▨○▨	LED LIGHTING FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING UPON LOSS OF NORMAL POWER. PROVIDE SEPARATE UNSWITCHED ENERGIZED CONDUCTOR TO BATTERY PACK IN ORDER TO ALLOW NORMAL SWITCHING OF LIGHTING FIXTURES WITHOUT DISCHARGING BATTERY PACK.
	WALL-MOUNTED TWIN-HEAD EMERGENCY LIGHTING FIXTURE, CONNECT TO UNSWITCHED LIGHTING CIRCUIT. MOUNT 7'-6" AFF EXCEPT NOT LESS THAN 6" BELOW CEILING. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED.
P S WP 3 K 4	WALL SWITCH; SINGLE POLE UNLESS NOTED 3- OR 4-WAY; "P" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON; W.P. INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED SWITCH; +48"/- ABOVE FLOOR EXCEPT IN MASONRY WALLS WHERE HEIGHT SHALL BE ADJUSTED TO HAVE BOX EDGE OCCUR AT A MASONRY JOINT. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.
S_L	LOW-VOLTAGE WALL SWITCH, SAME MOUNTING HEIGHT AS REGULAR WALL SWITCH TURN OUT CONDUIT ABOVE CEILING AND EXTEND LOW VOLTAGE WIRING TO LIGHTING RELAY OR RELAY CABINET AS REQUIRED.
W S C P D	EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT, "W" INDICATES WALL MOUNTING, "C" INDICATES CEILING MOUNTING, "S" INDICATES SINGLE FACE, "D" INDICATES DOUBLE FACE, "P" INDICATES PENDANT MOUNTED. PROVIDE DIRECTIONAL ARROWS ON EXIT SIGNS AS INDICATED ON PLANS. "WG" BY DEVICE INDICATES WIRE GUARD TO BE PROVIDED. UNIT EQUIPPED WITH BATTERY BACK-UP. CONNECT TO UNSWITCHED, "HOT", LIGHTING CIRCUIT.
⧖	WALL MOUNTED EXTERIOR LED EMERGENCY LIGHTING UNIT FULL CUTOFF "DARK SKY" COMPLIENT TYPE, WITH BUILT-IN NICKEL CADMIUM BATTERY FOR EMERGENCY OPERATION ONLY UPON LOSS OF NORMAL UTILITY POWER, WET LOCATION LISTED, WITH INTERNAL BATTERY HEATER. VERIFY FINISH AND EXACT MOUNTING HEIGHT WITH ARCHITECT. UNIT SHALL BE SIMILAR AND EQUAL TO MULE LIGHTING MERU-LED-EM-FIN-IH. UNIT SHALL HAVE TWO LED LAMPS FOR REDUNDANCY, TOTAL 11 WATTS.
OS	OCCUPANCY/VACANCY SENSOR FOR LIGHTING CONTROL, CEILING OR WALL MOUNTED AS INDICATED ON PLANS. MOUNT WALL-MOUNTED SENSOR AT SAME HEIGHT AS WALL SWITCH (+48" ABOVE FINISHED FLOOR). "D" BY SENSOR ON PLANS INDICATES DUAL RELAY TYPE SENSOR ALLOWING INDEPENDENT CONTROL OF TWO SEPARATE LIGHTING LOADS. PROVIDE NEUTRAL CONDUCTOR IN ADDITION TO LINE AND SWITCHED CONDUCTORS.
⊖=	DUPLEX PLUG RECEPTACLE; 120-VOLTS; 20-AMPERES; MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS AND LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
●=	DUPLEX PLUG RECEPTACLE, 120-VOLTS, 20-AMPERES, SHADED CENTER INDICATES EQUIPPED WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER, MOUNT 3" ABOVE BACKSPLASH AT WORK COUNTERS/LAVATORIES AND +18" AFF ELSEWHERE UNLESS NOTED TO A DIFFERENT HEIGHT. PROVIDE WEATHER RESISTANT DEVICE AND WEATHERPROOF "EXTRA DUTY WHILE IN USE" COVER WHERE LOCATED OUTDOORS. TAMPER RESISTANT, UNLESS NOT REQUIRED BY CODE.
TS	SPRINKLER SYSTEM TAMPER SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.
FS	SPRINKLER SYSTEM FLOW SWITCH, CONNECT TO SEPARATE ZONE IN BUILDING FIRE ALARM SYSTEM.
F	FIRE ALARM MANUAL PULL STATION, TOP OF BOX 48" AFF.
S	CEILING MOUNTED FIRE ALARM AUTOMATIC SMOKE DETECTOR, LOCATE MINIMUM 3'-0" AWAY FROM HVAC SUPPLY AND RETURN DIFFUSERS.
"FACU"	WALL MOUNTED FIRE ALARM CENTRAL CONTROL UNIT, TOP 6'-0" AFF.
L◁	WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY HORN/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
▬	PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS, TOP 6-FEET ABOVE FINISHED FLOOR ADJUSTED TO OCCUR AT A MASONRY JOINT, SEE PANELBOARD SCHEDULE FOR EQUIPMENT CONTAINED.
	ELECTRIC MOTOR REQUIRING CONNECTION, SIZE, USE, AND LOCATION AS INDICATED ON PLANS, VERIFY LOCATION AND CONNECTIONS REQUIRED WITH MECHANICAL TRADE PRIOR TO ROUGH-IN; USE FLEXIBLE CONDUIT WITHIN 18" OF EQUIPMENT.
⧄	MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED, SAME MOUNTING HEIGHT AS WALL SWITCH WHERE STARTER IS WALL MOUNTED. "2P" BY STARTER INDICATES TWO POLE STARTER TO BE PROVIDED FOR 208-VOLT, SINGLE-PHASE EQUIPMENT.
⊠	MAGNETIC MOTOR STARTER FOR EQUIPMENT INDICATED; PROVIDE HEAVY DUTY FUSED DISCONNECT SWITCH IN LOCATIONS WHERE STARTER IS OUT OF SIGHT OF SUPPLYING PANELBOARD.
	FUSED DISCONNECT SWITCH, HEAVY DUTY "HP" RATED, PROVIDE NEMA 3R ENCLOSURE OUTDOORS.
A-1,3,5 ////→	CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD A, CIRCUITS 1, 3, AND 5. CROSS LINES INDICATE #12 AWG PHASE AND NEUTRAL CONDUCTORS WHERE MORE THAN TWO. SINGLE CIRCUIT BRANCH CIRCUIT WIRING RUNS SHOWN WITHOUT CROSS LINES SHALL BE PROVIDED WITH 2#12, 1#12G. EACH 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN.
GUH	GAS UNIT HEATER, HP AND VOLTAGE AS INDICATED ON PLANS. PROVIDE DISCONNECT SWITCH AND CONNECT.
L◀	WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS. PROVIDE BACKBOX SUCH THAT BOTTOM OF STROBE LENS IS 81" ABOVE FINISHED FLOOR, COORDINATE BACKBOX TYPE AND EXACT MOUNTING HEIGHT WITH FIRE ALARM EQUIPMENT SUPPLIER. "WG" BY SPEAKER/STROBE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
L◀ C	FIRE ALARM COMBINATION SPEAKER/STROBE UNIT, CANDELA AND DBA RATING AS NOTED ON DRAWINGS, "C" INDICATES SPEAKER/STROBE UNIT TO BE CEILING MOUNTED. "WG" BY DEVICE INDICATES CONTRACTOR TO PROVIDE WIRE GUARD.
＜F＞	WALL MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL, TOP 54" AFF.

TFM#03970-F

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AARON ANDREW LOVE
NO. 113344
9-24-24

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

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10
P2	PERMITTING	2023-12-08
0	BIDDING	2024-09-24

SHEET DESCRIPTION
LEGENDS AND SCHEDULES

E201

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

Anderson County HS Football Practice Facility - Legends and Schedules.bak.dwg
M.R.M. 10/17/23 11:24 AM 23161

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.

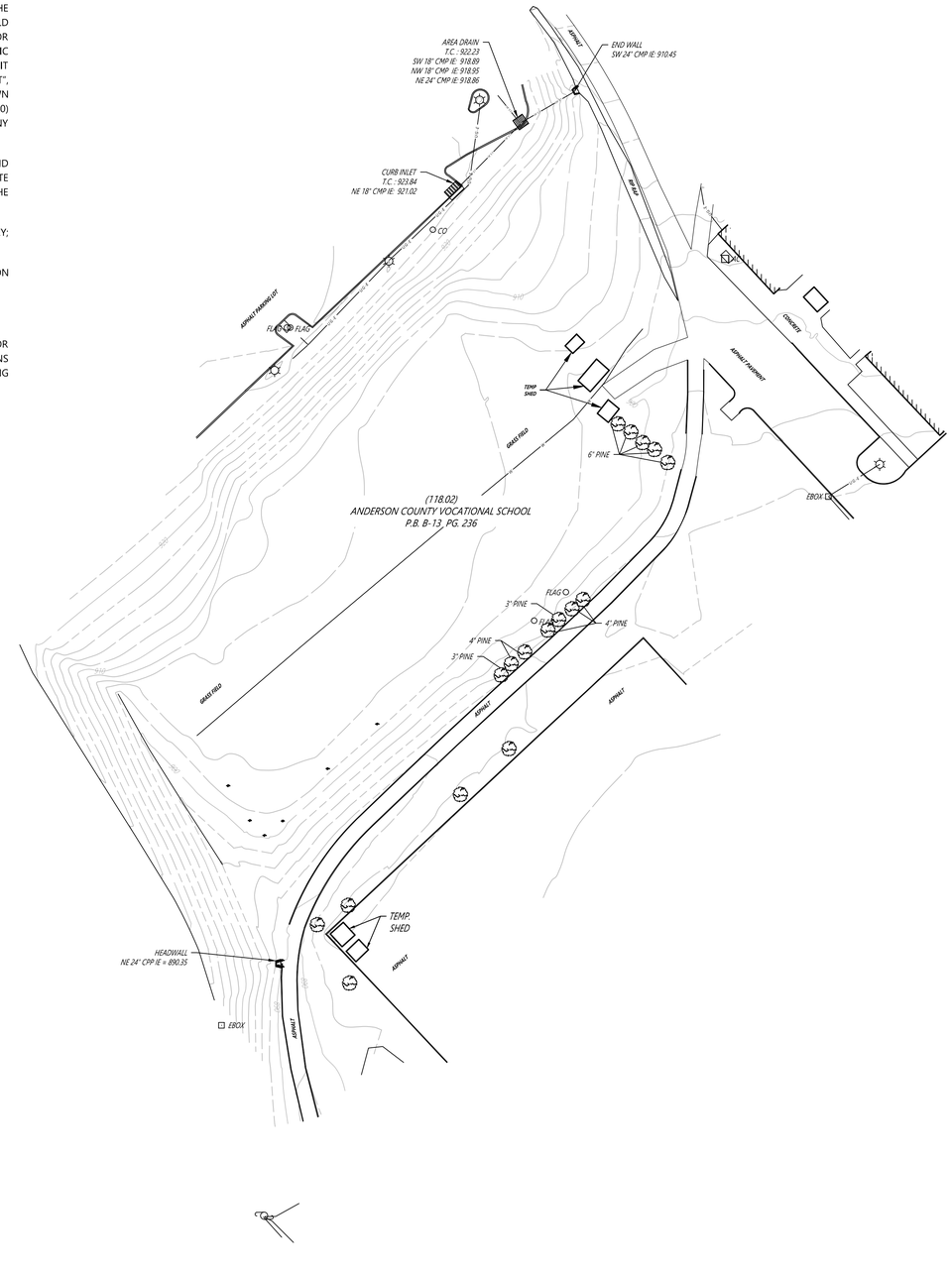
SITE DATA

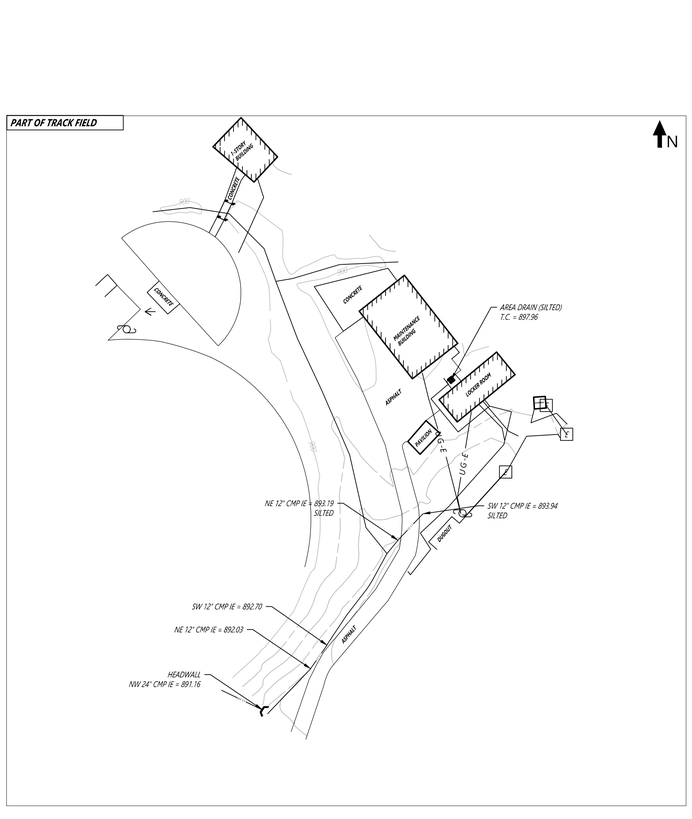
PROPERTY LOCATED ON ANDERSON COUNTY TAX MAP 43, PARCEL 118.02

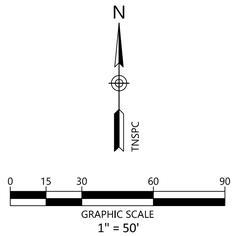
CITY:	CLINTON
COUNTY:	ANDERSON
STATE:	TENNESSEE
DISTRICT:	1
SITE ADDRESS:	130 MAVERICK CIRCLE CLINTON, TENNESSEE
OWNER:	ANDERSON COUNTY VOCATIONAL SCHOOL RT 1 CLINTON, TN 37716

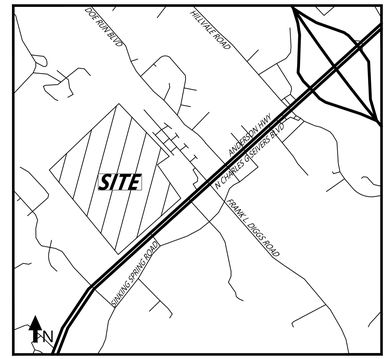
LEGEND

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









VICINITY MAP
NOT TO SCALE

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: _____ Date: 09/05/2023
LEAH M. METCALF TN Registered Surveyor No. 3430

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

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

LEAH M. METCALF REGISTERED LAND SURVEYOR XVI AGRICULTURE XVII TENNESSEE No. 3430

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

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

DRAWING PATH: T:\Knoxville-1438\Projects\2023\23430249_Anderson County_Schools_Anderson County_Schools Football_Clinton TN\Civil Survey\CAD\Survey\23430249 Anderson County HS_Additional Topo.dwg