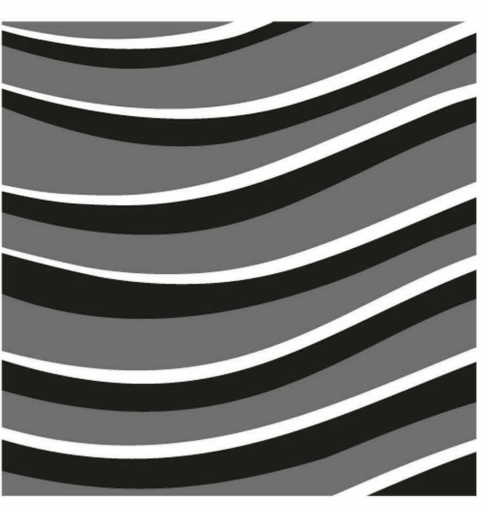


CHEROKEE NATION

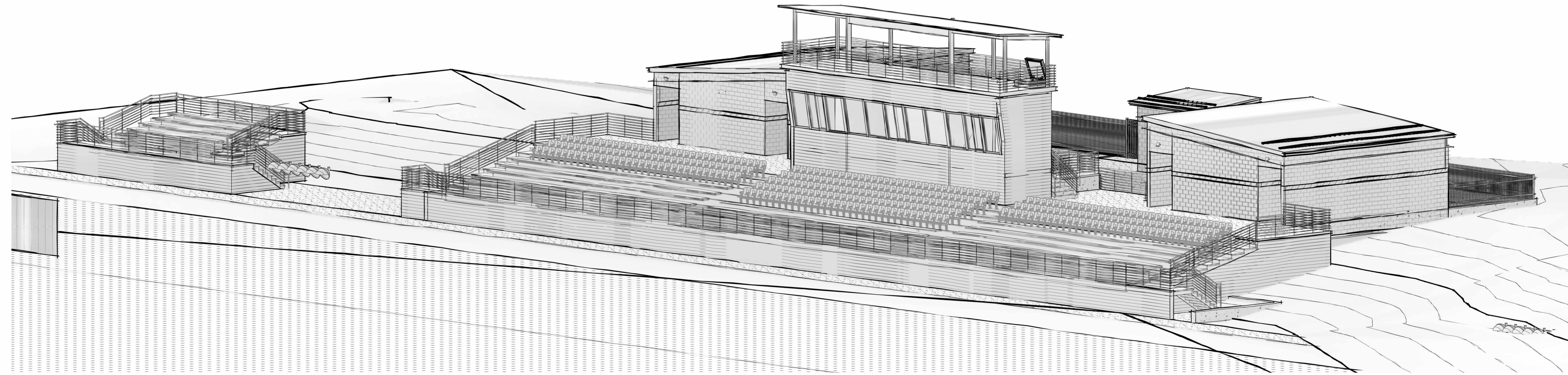
SEQUOYAH HIGH SCHOOL - PHASE 2

CONSTRUCTION DOCUMENTS

12/22/2023



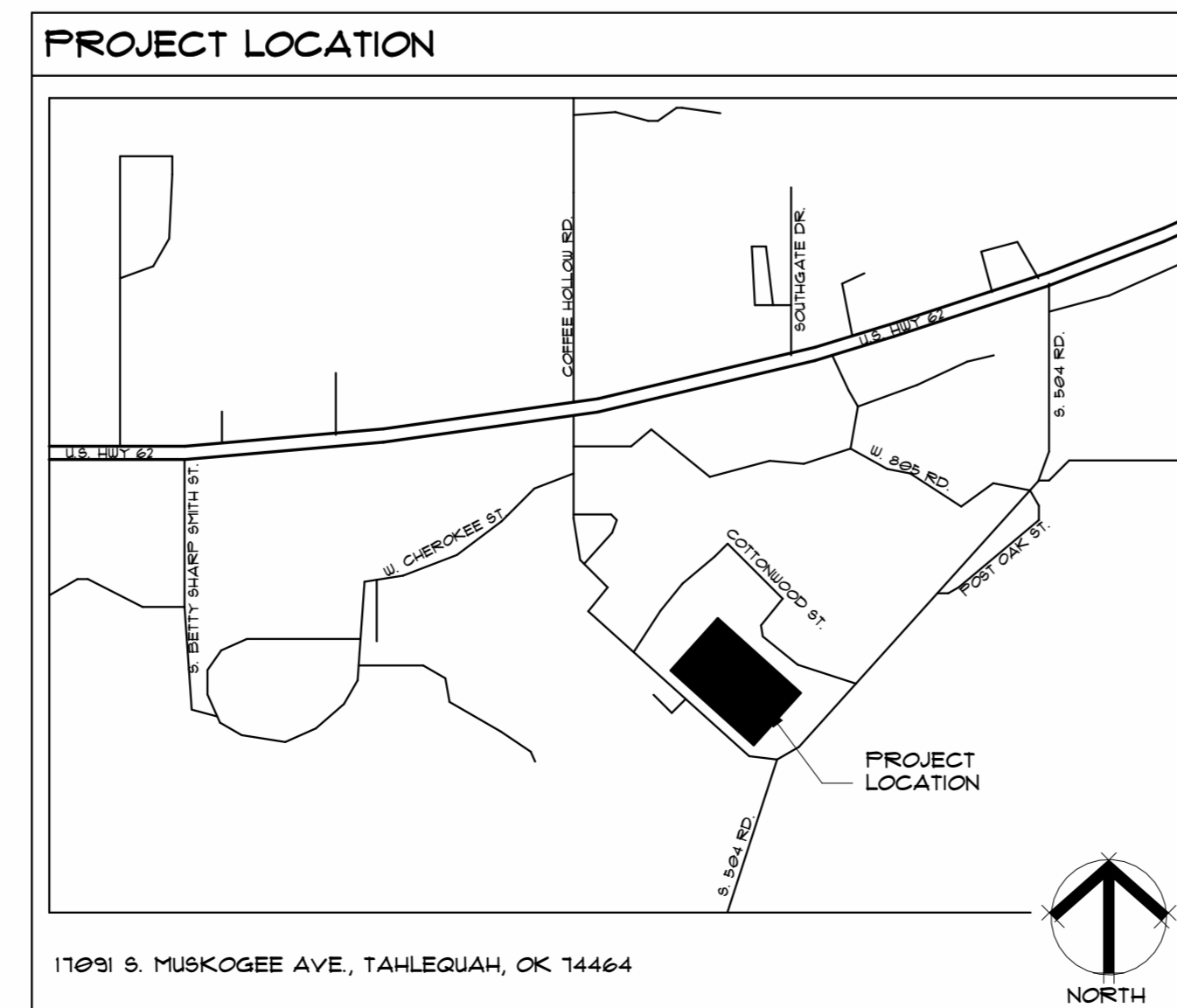
blue river
ARCHITECTS
A Native American Owned Firm



3-D REPRESENTATION FOR ILLUSTRATIVE PURPOSES ONLY, REFER TO DRAWINGS AND DETAILS

PROJECT CONTACTS	
OWNER: CHEROKEE NATION 17675 S. MUSKOGEE AVE. TAHLEQUAH, OK 74464	ARCHITECT: BLUE RIVER ARCHITECTS, LLC 370 SOUTH BOSTON AVENUE SUITE 103 TULSA, OKLAHOMA 74103 P(918) 584-5858
CONTRACTOR: TBD	

CONSULTANT CONTACTS	
MEP CONSULTANT: MPW ENGINEERING, LLC 1100 W. 11TH ST. SUITE 100 TULSA, OK 74119	STRUCTURAL CONSULTANT: WALLACE DESIGN COLLECTIVE 123 N. TULK. JRS. BLVD. TULSA, OK 74103 P(918) 584-5858
CIVIL CONSULTANT: WALLACE DESIGN COLLECTIVE 123 N. TULK. JRS. BLVD. TULSA, OK 74103 P(918) 584-5858	



SHEET INDEX		SHEET INDEX		SHEET INDEX	
SHEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME	SHEET NUMBER	SHEET NAME
GENERAL					
CS	COVER SHEET	A401	ENLARGED PLANS AND INTERIOR ELEVATIONS	F001	PLUMBING NOTES & SCHEDULES
G001	PROJECT INFORMATION	A501	SECTION DETAILS	F101	FIRST FLOOR PLUMBING PLAN
G002	LIFE SAFETY - FIRST FLOOR	A601	DOOR SCHEDULE AND WINDOW DETAILS	ELECTRICAL	
CIVIL					
C101	GENERAL NOTES	INTERIORS		D101	INTERIOR FINISH PLAN AND DETAILS
C201	SURVEY	STRUCTURAL			
C301	DEMOLITION & EROSION CONTROL PLAN	S001	DESIGN PARAMETERS AND GENERAL NOTES	S002	STRUCTURAL SPECIAL INSPECTIONS
C401	SITE PLAN	S101	FOUNDATION PLAN	S102	ROOF FRAMING PLAN
C501	EXISTING DRAINAGE PLAN	S103	PARTIAL PLANS	S201	BRACED FRAME ELEVATIONS
C502	PROPOSED DRAINAGE PLAN	S301	FOUNDATION SCHEDULES AND DETAILS	S302	FOUNDATION DETAILS
C601	UTILITY PLAN	S303	FOUNDATION DETAILS	S304	RETAINING WALL AND SITE DETAILS
C701	UTILITY PROFILES	S401	COMPOSITE DECK	S501	STEEL FRAMING DETAILS
C801	DETAILS	S502	GENERAL WOOD	MECHANICAL	
C802	DETAILS	MECHANICAL			
ARCHITECTURAL					
A101	SOUTH STADIUM - FLOOR PLANS	M101	HVAC NOTES & LEGENDS	M101	FIRST FLOOR HVAC PLAN
A102	REFLECTED CEILING PLAN - FIRST FLOOR	M601	MECHANICAL SCHEDULES & DETAILS	F201	PLUMBING ISOMETRICS
A103	ROOF PLAN				
A201	EXTERIOR ELEVATIONS				
A301	BUILDING SECTIONS				
A302	WALL SECTIONS				

20210121.35.05 CN SHS PHASE 2

17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

CS COVER SHEET



BLUE RIVER PROJECT NUMBER:
20210121.35.05

ISSUE DATE:
12/22/2023

ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
COVER SHEET

SHEET NUMBER:
CS

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SYMBOLS LEGEND

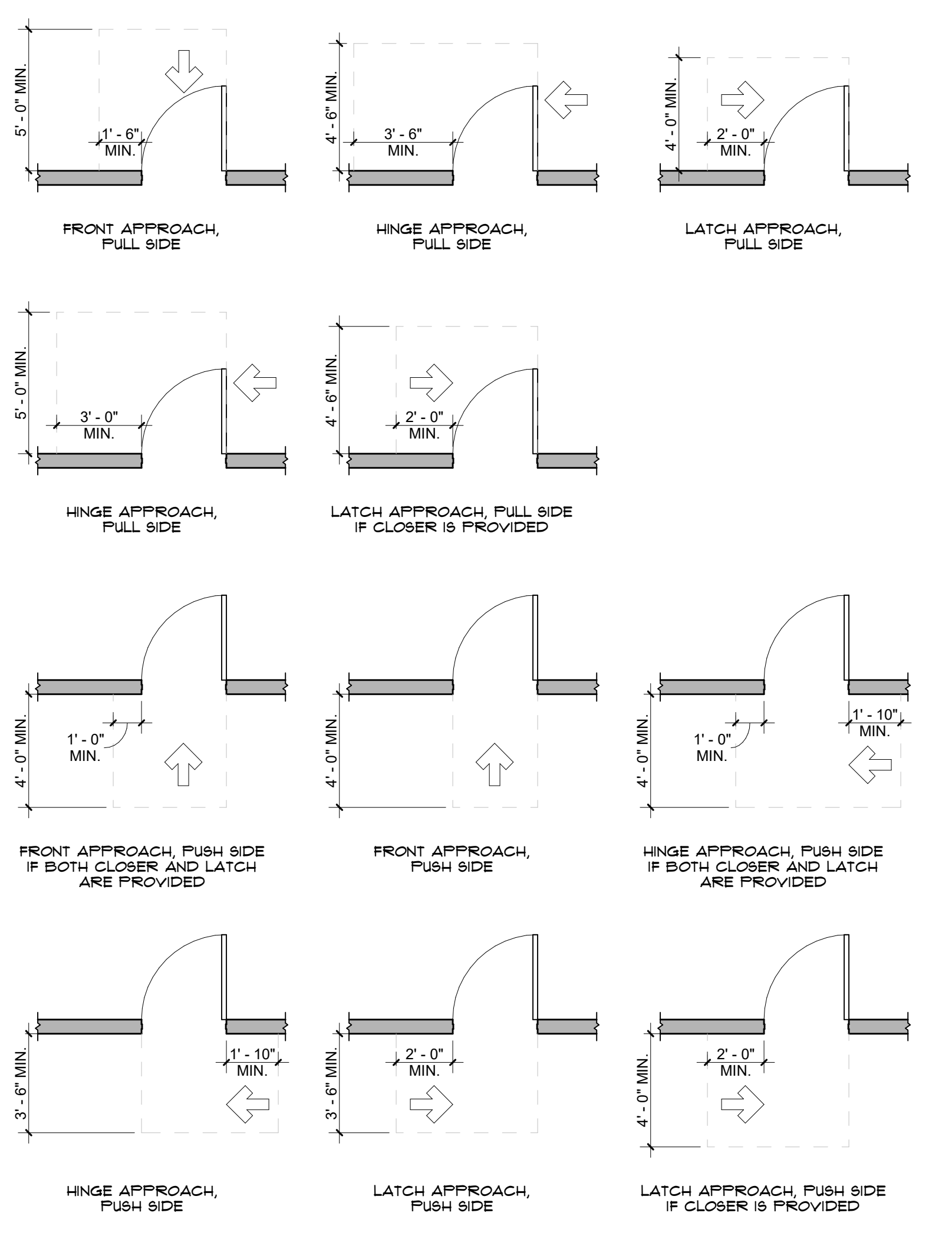
VIEW TITLE	A TITLE 1/8" = 1'-0"
VIEW TITLE WITH REFERENCE	A TITLE 1/8" = 1'-0" REF FROM: R / R10
BUILDING SECTION AND REFERENCE	
BUILDING ELEVATION	
WALL SECTION SYMBOL	
ENLARGED FLOOR PLAN OR PLAN DETAIL REFERENCE	
MATCHLINE REFERENCES	
INTERIOR ELEVATION	
ROOM NAME ROOM NUMBER	ROOM NAME 101
AREA NAME AREA SQUARE FEET AREA OCCUPANCY	AREA NAME 150 SF 150
LEVEL NAME RELATIVE ELEVATION	NAME ELEVATION
PARTITION TYPE SYMBOL	
DOOR TAG & RATING	101 20
WINDOW / STOREFRONT TAG	
MATERIAL TAG	
EQUIPMENT TAG	
GRID BUBBLE	
PLAN NORTH ARROW	
GRAPHIC SCALE	
ELEVATION OR HEIGHT SYMBOL	
FLOORING TRANSITION	
CENTERLINE	
OPEN TO STRUCTURE	
ALIGN FINISHES	
REVISION EXTENTS & TAG	

GENERAL DEFINITIONS

ALIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION.
CLEAR	MINIMUM DIMENSION BETWEEN FINISHED CONDITION, SHALL BE TREATED AS A PRIORITY TO HOLD BEFORE OTHER DIMENSIONS.
MAXIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
MINIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
SIMILAR	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES. DETAILS AND NOTES ARE TYPICAL. SIMILAR DETAILS AND NOTES APPLY IN SIMILAR CONDITIONS. THE WORD "SIMILAR" MEANS THAT ITEMS IN EACH CASE ARE TO BE SEPARATELY WORKED OUT TO BUT CONDITIONS IN A MANNER LIKE OR SIMILAR TO THE EXAMPLE REFERRED TO AND DOES NOT MEAN IDENTICAL.
TYPICAL	THE CONDITION APPLIES TO THE SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE.

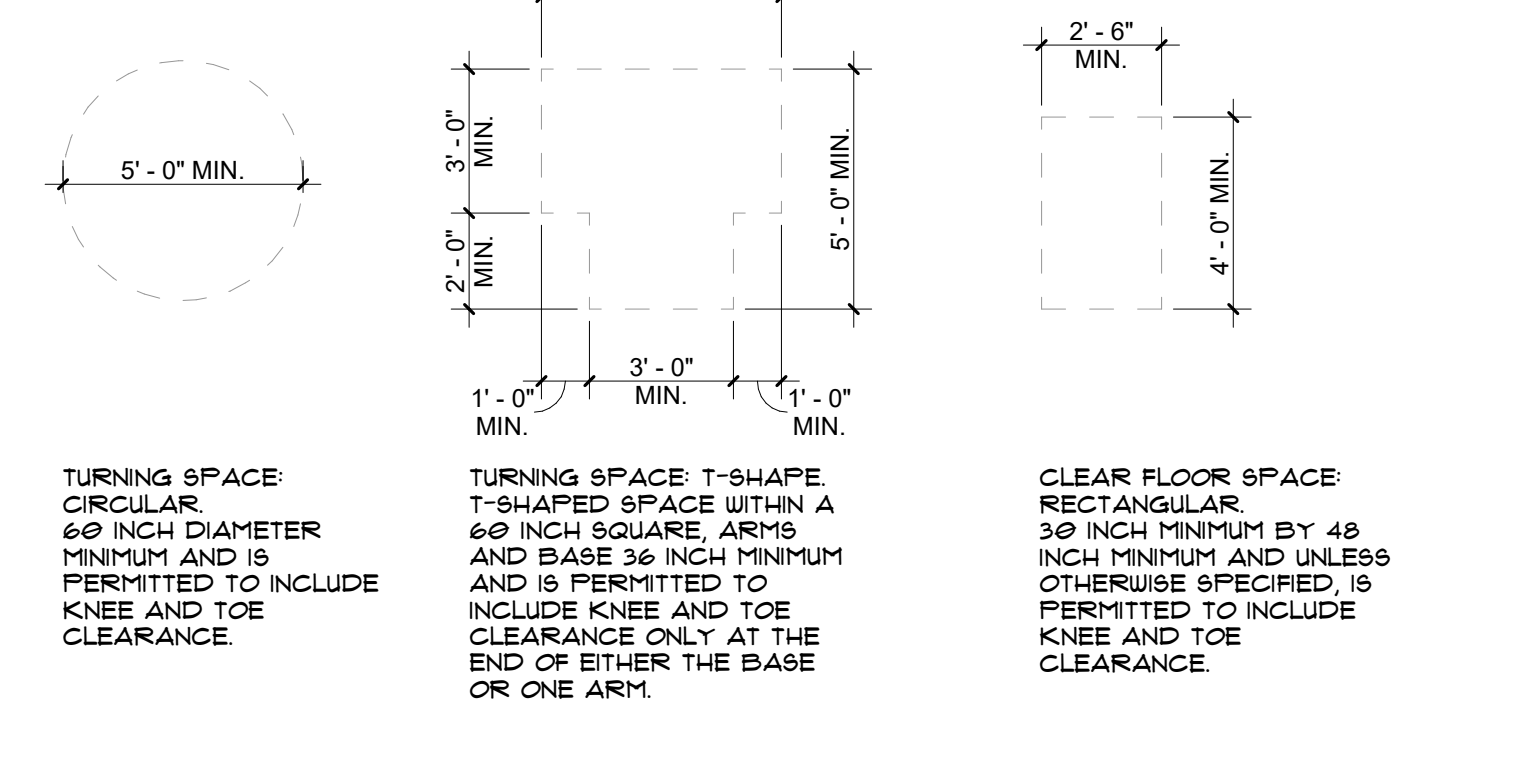
DOOR CLEARANCES

PER 2009 ICC A117.1 ACCESSIBLE & USABLE BUILDINGS & FACILITIES



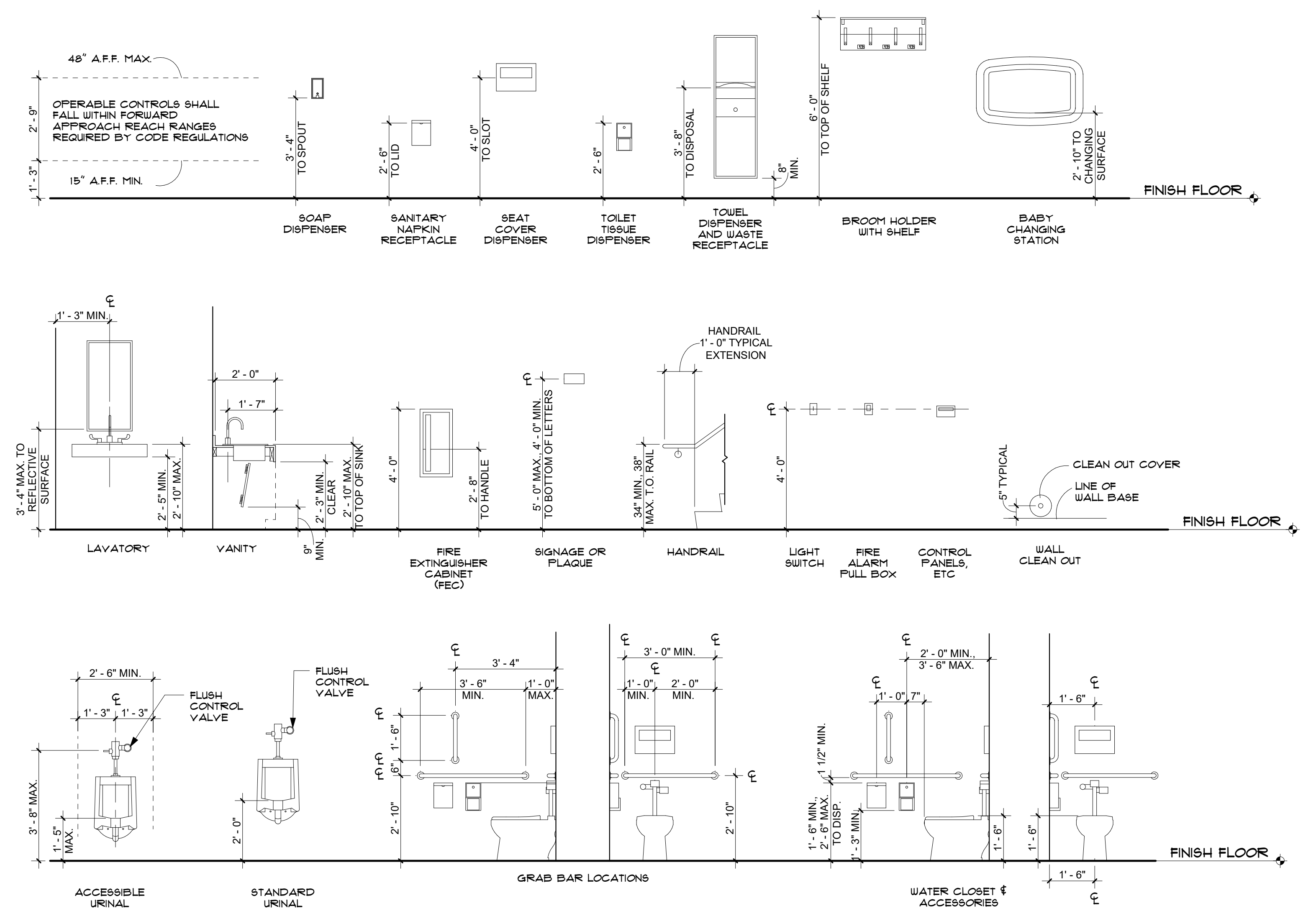
TURNING RADIUS AND CLEAR SPACE

PER 2009 ICC A117.1 ACCESSIBLE & USABLE BUILDINGS & FACILITIES

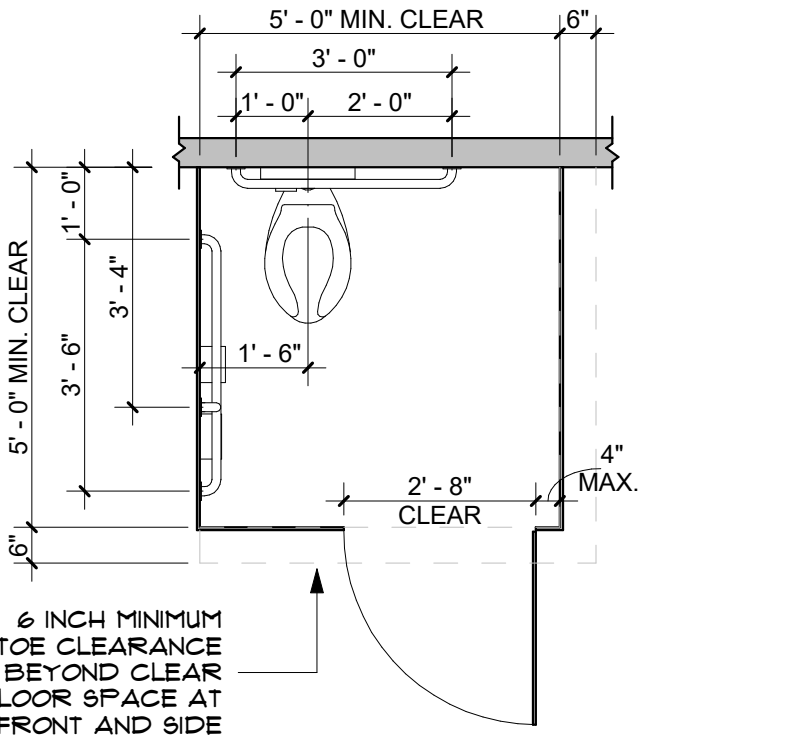


MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES

- #### NOTES
- MOUNTING HEIGHTS SHOWN ARE FOR ALL ACCESSORIES AND FIXTURES REQUIRED, UNLESS NOTED OTHERWISE OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS.
 - CLEARANCES, MOUNTING HEIGHTS AND LOCATIONS INDICATED APPLY TO SPECIFIC LOCATIONS THROUGHOUT PROJECT WHERE FIXTURES OCCUR. REFER TO FLOOR PLANS, ENLARGED FLOOR PLANS, A100 SERIES AND INTERIOR ELEVATIONS FOR FIXTURE LOCATIONS AND ADDITIONAL INFORMATION.
 - B.F. - DENOTES ACCESSIBLE BARRIER FREE REQUIREMENTS.



ACCESSORIES STALL PLANS



DETAILED CODE INFORMATION

USE OR OCCUPANCY
303.6 ASSEMBLY GROUP A-5 NON-SPRINKLERED
506.3 SINGLE USE, NO SEPARATION REQUIRED

GENERAL BUILDING HEIGHTS AND AREAS
NON-SEPARATED USE GROUPS: A-5 TYPE VB NON-SPRINKLERED:
TABLE 504.3 ALLOWABLE BUILDING HEIGHT 40 FEET
TABLE 504.4 ALLOWABLE NUMBER OF STORIES UNLIMITED
TABLE 506.2 ALLOWABLE BUILDING AREA UNLIMITED

TABLE 506.2.1 AREA LIMITATIONS:
 AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES IN TABLE 503, WITHOUT AREA INCREASES IN ACCORDANCE WITH SECTION 506 FOR SUCH ACCESSORY OCCUPANCIES.

TYPE OF CONSTRUCTION
TABLE 602.3 TYPE VB NON-SPRINKLERED

TABLE 601 STRUCTURAL ELEMENT FIRE RESISTANCE RATING
 STRUCTURAL FRAME 0
 BEARING WALLS 0
 EXTERIOR: EXTERIOR 0, INTERIOR 0
 NON-BEARING WALLS: EXTERIOR 0, INTERIOR 0
 FLOOR CONSTRUCTION 0
 ROOF CONSTRUCTION 0

TABLE 602 FIRE-RESISTANCE RATING REQUIRED FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE:
 GROUP A-5
 X < 5 1 HOUR
 5 ≤ X < 10 0 HOUR
 10 ≤ X < 30 0 HOUR
 X ≥ 30 0 HOUR

GENERAL BUILDING HEIGHTS AND AREAS
ALLOWABLE AREA
TABLE 506.2 UNLIMITED

ALLOWABLE HEIGHT
TABLE 504.3 40 FEET
 ACTUAL HEIGHT: 28'-0"

ALLOWABLE NUMBER OF STORIES
TABLE 504.4 UNLIMITED
 ACTUAL STORIES: 1

TABLE 506.2.3 AREA LIMITATIONS:
 AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10% OF THE FLOOR AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES FOR NONSPRINKLERED BUILDINGS IN TABLE 506.2 FOR EACH SUCH ACCESSORY OCCUPANCY

FIRE AND SMOKE PROTECTION
105.5 EXTERIOR WALLS WITH SEPARATION > 10 FT RATING ON INSIDE < 10 FT RATING ON BOTH SIDES

INTERIOR FINISHES
TABLE 903.13 INTERIOR FINISH REQUIREMENTS: TYPE VB
 EXIT ENCLOSURES / EXIT PASSAGEWAYS CLASS A MATERIALS
 CORRIDORS PROVIDING EXIT ACCESS CLASS A MATERIALS
 ROOMS OR ENCLOSED SPACES CLASS C MATERIALS
 NOTE: CLASS C MATERIALS PERMITTED IN PLACES OF ASSEMBLY WITH AN OCCUPANT LOAD OF 300 PERSONS OR LESS

FIRE PROTECTION SYSTEMS
506 PORTABLE FIRE EXTINGUISHERS PER NFPA 10 - 4 PROVIDED
 EXCEPTIONS:
 1. THE DISTANCE OF TRAVEL TO REACH AN EXTINGUISHER SHALL NOT APPLY TO THE SPECTATOR SEATING PORTIONS OF GROUP A-5 OCCUPANCIES.

901.2 FIRE ALARM AND DETECTION SYSTEM
 AN APPROVED FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72 SHALL BE PROVIDED IN NEW BUILDINGS AND STRUCTURES AND PROVIDE OCCUPANT NOTIFICATION.
901.2.2 EXCEPTION:
 MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATER FLOW

MEANS OF EGRESS
1005.3.1 STAIRWAY WIDTH / OCCUPANT 0.3 INCHES / OCCUPANT 6 X 0.3 = 1.8' REQUIRED
1005.3.2 OTHER EGRESS WIDTH / OCCUPANT 0.2 INCHES / OCCUPANT 6 X 0.2 = 1.2' REQUIRED
1005.3.3 STAIRWAYS
 EXCEPTIONS:
 1. STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH NOT LESS THAN 36 INCHES.
 2. EXIT ACCESS STAIRWAYS PROVIDING MEANS OF EGRESS FROM MEZZANINES ARE PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY: NON-SPRINKLERED OCCUPANCY: A-5
 MAX OCC LOAD / SPACE 49 OCC
 MAX COMMON PATH OF EGRESS TRAVEL DISTANCE 75 FEET

1005.3 STAIRWAYS
 EXCEPTIONS:
 1. EXIT ACCESS STAIRWAYS PROVIDING MEANS OF EGRESS FROM MEZZANINES ARE PERMITTED AS PART OF AN ACCESSIBLE MEANS OF EGRESS

101.2 STAIRWAYS: MINIMUM WIDTH 44 INCHES
 EXCEPTIONS: STAIRWAYS SERVING OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A MINIMUM WIDTH OF 36"

101.3 MINIMUM HEADROOM 80 INCHES, MEASURED VERTICALLY FROM NOSING EDGES.

101.8 VERTICAL RISE: 12 FEET MAX VERTICAL RISE BETWEEN FLOORS AND LANDING. RAMPS AS A MEANS OF EGRESS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:12 (8%)

TABLE 106.3.2 STAIRWAYS: MINIMUM WIDTH 44 INCHES; MINIMUM HEADROOM 80 INCHES, MEASURED VERTICALLY FROM NOSING EDGES.
 EXIT ACCESS TRAVEL DISTANCE: A NON-SPRINKLERED: 200 FEET
 EXCEPTION: STAIRWAYS SERVING OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A MINIMUM WIDTH OF 36 INCHES

TABLE 1012.2 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY FOR GROUP A CANNOT EXCEED AN OCCUPANT LOAD OF 49.

TABLE 1012.3 RAMPS AS A MEANS OF EGRESS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1:48 (2%)

TABLE 1012.4 VERTICAL RISE OF ANY RAMP: RUN SHALL BE 30 INCHES MAXIMUM.

TABLE 1011.2 EXIT ACCESS TRAVEL DISTANCE OCCUPANCY VB, WITH NON-SPRINKLERED: 200 FEET

TABLE 1004.1.1
 BUILDING OCCUPANT LOAD:
 STORAGE, MECHANICAL EQUIPMENT ROOMS 300 GSF / OCCUPANT 106 GSF / 300 = 1 OCCUPANTS
 BUSINESS 150 GSF / OCCUPANT 504 GSF / 150 = 4 OCCUPANTS
 MERCANTILE 60 GSF / OCCUPANT 465 GSF / 60 = 8 OCCUPANTS
 SUBTOTAL OCCUPANT LOAD = 13 OCCUPANTS
 BLEACHER OCCUPANT LOAD:
 SPECTATOR SEATING AREA 149 OCCUPANTS
 SUBTOTAL OCCUPANT LOAD = 149 OCCUPANTS
 TOTAL OCCUPANT LOAD = 162 OCCUPANTS

NOTE: ALL LIFE SAFETY AND CODE COMPLIANCE INFORMATION PROVIDED SHALL BE INCORPORATED INTO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE CODE COMPLIANCE MEASURES INDICATED AND SPECIFIED AS PART OF THE PROJECT COST. SOME PROVISIONS MAY BE IN EXCESS OF MINIMUM CODE REQUIREMENTS.

SUMMARY AND APPLICABLE CODES

SUMMARY
 THE BUILDINGS DEPICTED IN THESE CONSTRUCTION DOCUMENTS ARE NON-SPRINKLERED FACILITIES TO SUPPORT THE SEQUOIA HIGH SCHOOL FOOTBALL AND ATHLETIC PROGRAMS. THEY INCLUDE A NEW PRESS BOX, TOILET FACILITIES, CONCESSION STAND, SPIRIT STORE, AND TICKET BOOTH.

TOTAL SQUARE FOOTAGE 3,000 COMBINED SQUARE FEET
 OCCUPANCY TYPE A-5
 NUMBER OF STORIES: 1
 FULLY SPRINKLERED: NO

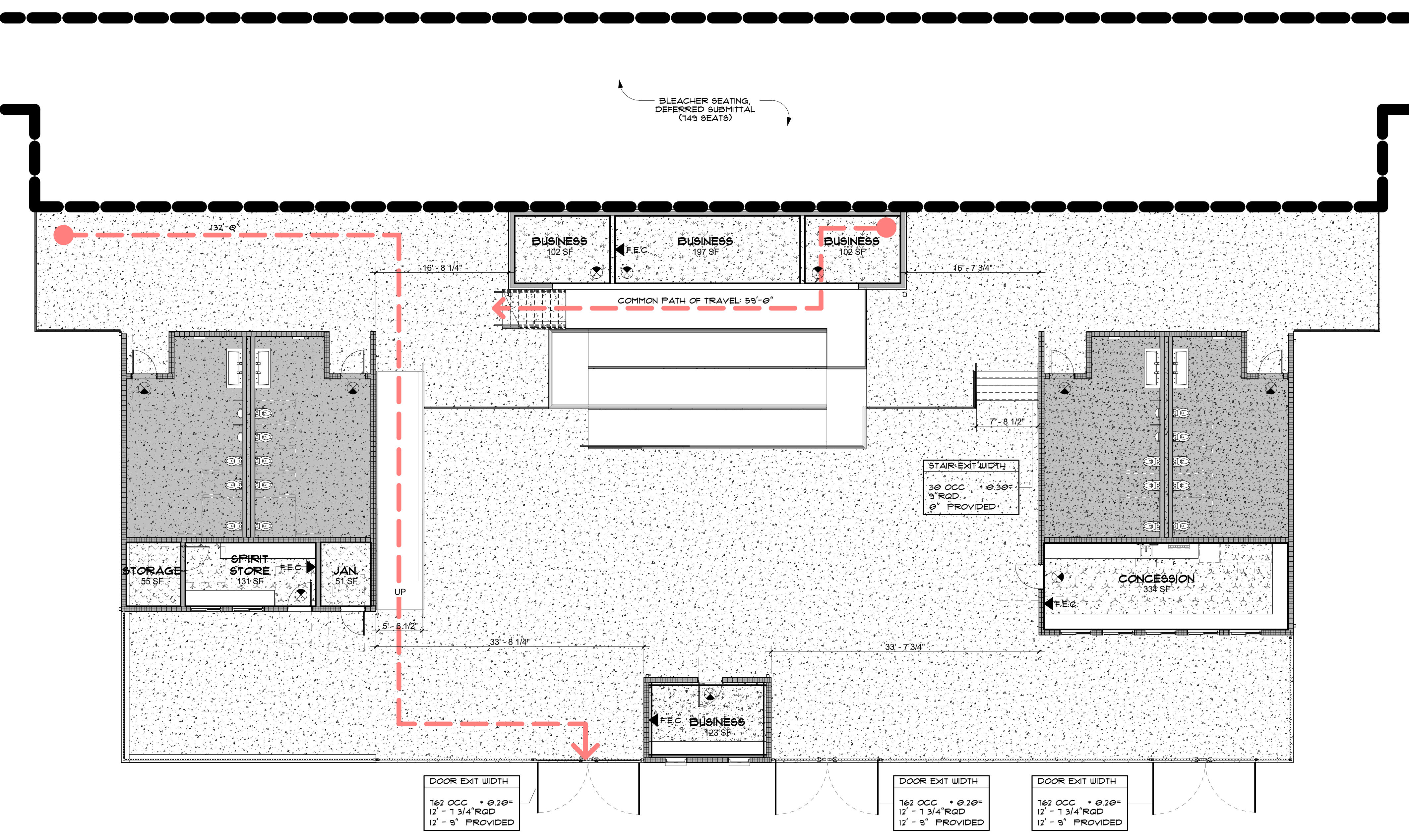
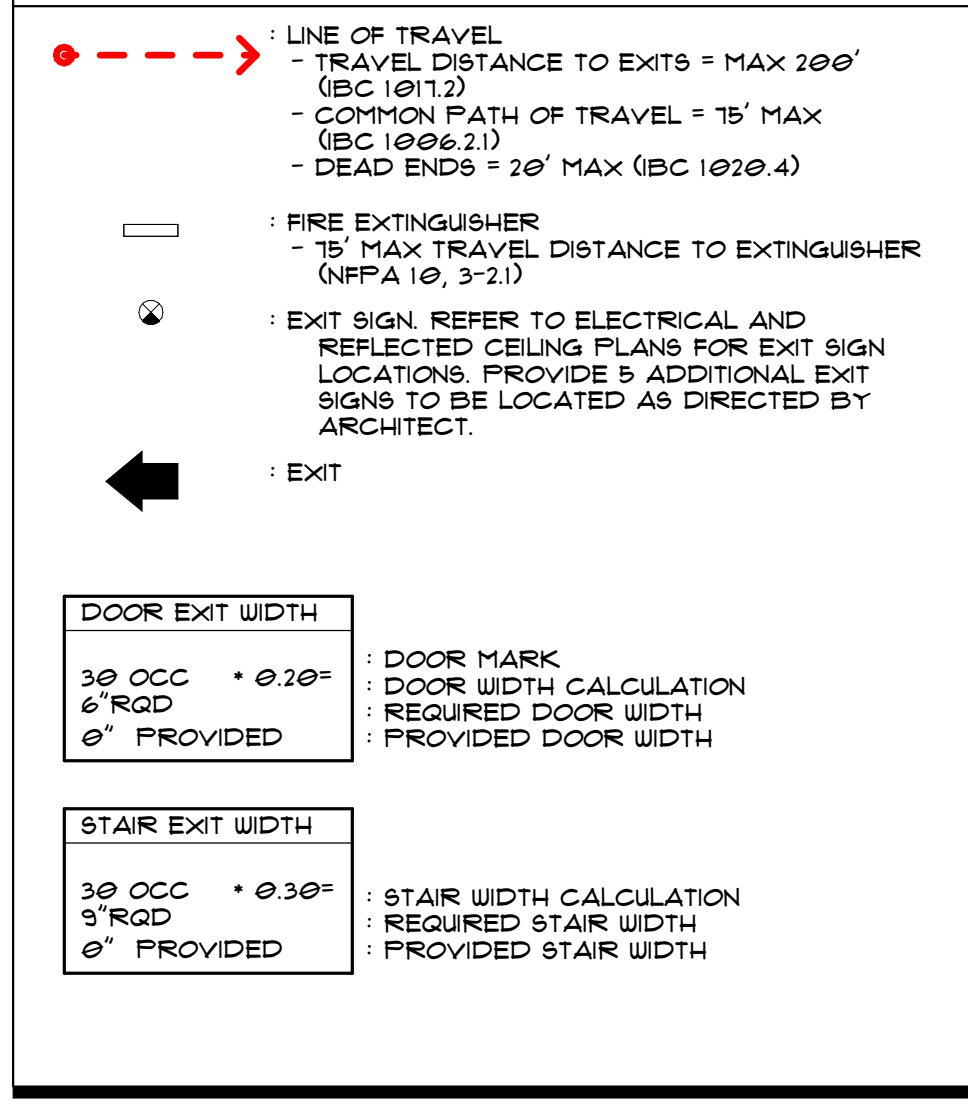
APPLICABLE CODES
 2018 INTERNATIONAL BUILDING CODE (IBC)
 2018 INTERNATIONAL PLUMBING CODE (IPC)
 2018 NATIONAL ELECTRIC CODE (NEC)
 2018 INTERNATIONAL FIRE CODE (IFC)
 2018 INTERNATIONAL MECHANICAL CODE (IMC)
 2018 ADA ACCESSORY GUIDELINES FOR BUILDINGS AND FACILITIES (ADA)

PLUMBING FIXTURE COUNT

MINIMUM NUMBER OF PLUMBING FACILITIES PER FLOOR (A-5)
 TABLE 2902.1
 TOTAL OCCUPANTS: 162 OCCUPANTS: 381 MEN, 381 WOMEN

FIXTURE TYPE	IBC REQ'D	PROVIDED
WATER CLOSETS	M: 175 FOR FIRST 1,500 W: 140 FOR FIRST 1,500	M: 5 W: 10
LAVATORIES	M: 1200 W: 1150	M: 2 W: 2
DRINKING FOUNTAIN	1/1000	1
SERVICE SINK	1 REQ'D	1

CODE PLAN LEGEND



OVERALL LIFE SAFETY PLAN
 1/8" = 1'-0"



20210121.35.05 CN SHS PHASE 2
 17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464



BLUE RIVER PROJECT NUMBER:
20210121.35.05
 ISSUE DATE:
12/22/2023
 ISSUE:
CONSTRUCTION DOCUMENTS

SHEET NAME:
LIFE SAFETY - FIRST FLOOR

SHEET NUMBER:
G002



Benchmark Notes

Benchmark 3/8" Iron Pin Elev=486.60 N=321935.6000 E=2866935.2530	Benchmark 3/8" Iron Pin Elev=496.33 N=322379.1480 E=2857203.7980	Benchmark MAGNETIC NAIL Elev=482.77 N=322242.1510 E=2857600.7020	Benchmark 3/8" Iron Pin Elev=482.45 N=321588.6290 E=2857376.8300
--	--	--	--

Legend

ACC ACCESS	OT OVERHEAD TELEPHONE
A/C AIR CONDITIONER	OU OVERHEAD UTILITIES
BAG BUILDING	PP POWER POLE - VALVE
BLG BUILDING SETBACK LINE	PPC POLYETHYLENE CHLORIDE PIPE
BM BOTTOM OF WALL	RCS REINFORCED CONCRETE BOX
CMP CORRUGATED METAL PIPE	RCP RAILROAD
CL CENTERLINE	R/W RIGHT-OF-WAY
CO SEWER CLEAN-OUT	SC SUPPORT COLUMN
CONC CONCRETE	SD STORM DRAIN
CPED CABLE TELEVISION PEDESTAL	SDH STORM DRAIN MANHOLE
DDP DOUBLE GRADE DROP INLET	SDI SINGLE GRADE DROP INLET
DS DOWNSPOUT	SPHD SPRINKLER HEAD
EM ELECTRIC METER	SS sanitary sewer
EPED ELECTRIC PEDESTAL	SSH SANITARY SEWER LAMPHOLE
EW EASEMENT	SSMH SANITARY SEWER MANHOLE
EX EXISTING	TC TOP OF CURB
FF FRESH FLOOR	TD TOP OF DRAIN TILE
FI FIRE HYDRANT	TDI TOP OF DRAIN INLET
FL FLOORLINE (EXERT)	TH TOP OF HEADWALL
FLS FENCE	TI TOP OF IRON PIPE
FND FOUND	TPED TELEPHONE PEDESTAL
G GUTTER	TRM TOP OF MANHOLE RIM
GM GAS METER	TSMH TRAFFIC SIGNAL MANHOLE
GP GUANO POST	TSSL TRAFFIC SIGNAL
GR GAS RISER	TW TOP OF WALL
GVV GUY DOWN	TYP TYPICAL
ICV IRRIGATION CONTROL VALVE	UC UNDERGROUND CABLE
IP IRON PIN	UL UNDERGROUND LINE
LNA LIGHT POLE	UE UNDERGROUND ELECTRIC
LA LIMITS OF NO ACCESS	ULF UNDERGROUND LIGHT
MAVE MUTUAL ACCESS EASEMENT	UMH UNDERGROUND TELEPHONE
MB MAIL BOX	UTM UTILITY MANHOLE
ML METAL LED	WL WATERLINE
MW MOUNTING WELL	WW WATER VALVE
OC OVERHEAD CABLE	WW WATER VALVE
OE OVERHEAD ELECTRIC	WW WING WALL
ONG ONE INCH CORPORATION	XTMR TRANSFORMER

Utility Statement

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND DISTINGUISHED FROM RECORDS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR HAS NOT WARRANTEED THE ACCURACY OF THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL UNDERGROUND UTILITIES.

BEFORE YOU DIG CALL OKIE
1.800.522.4541

- Notes**
1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
 2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM. THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAN.
 3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!)
 4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD83).
 5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.



BENNETT SURVEYING, INC.

REVISIONS	BY	DATE
FILE:	1422.20	SURVEY BY: CDB DATE: 02/09/23
ORDER:	230391	DRAWN BY: ABS SCALE: 1"=30'
BOOK:		CHECKED BY: CDB SHEET 1 OF 1

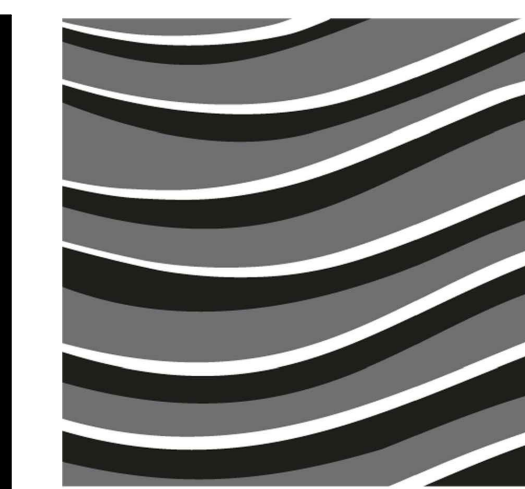
SURVEY NOTE:

THIS SHEET IS FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. WALLACE DESIGN COLLECTIVE HAS NOT CONFIRMED ITS ACCURACY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.
NOTE: SURVEY SCALED TO FIT PAGE.



CAUTION NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



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wallace design collective
wallace design collective, pc
structural civil landscape survey
123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.0368
oklahoma ccl1460
exp. 6-30-25

SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
17091 SOUTH MUSKOGEE AVENUE, TAHLEQUAH, OKLAHOMA 74464
C400
SITE PLAN

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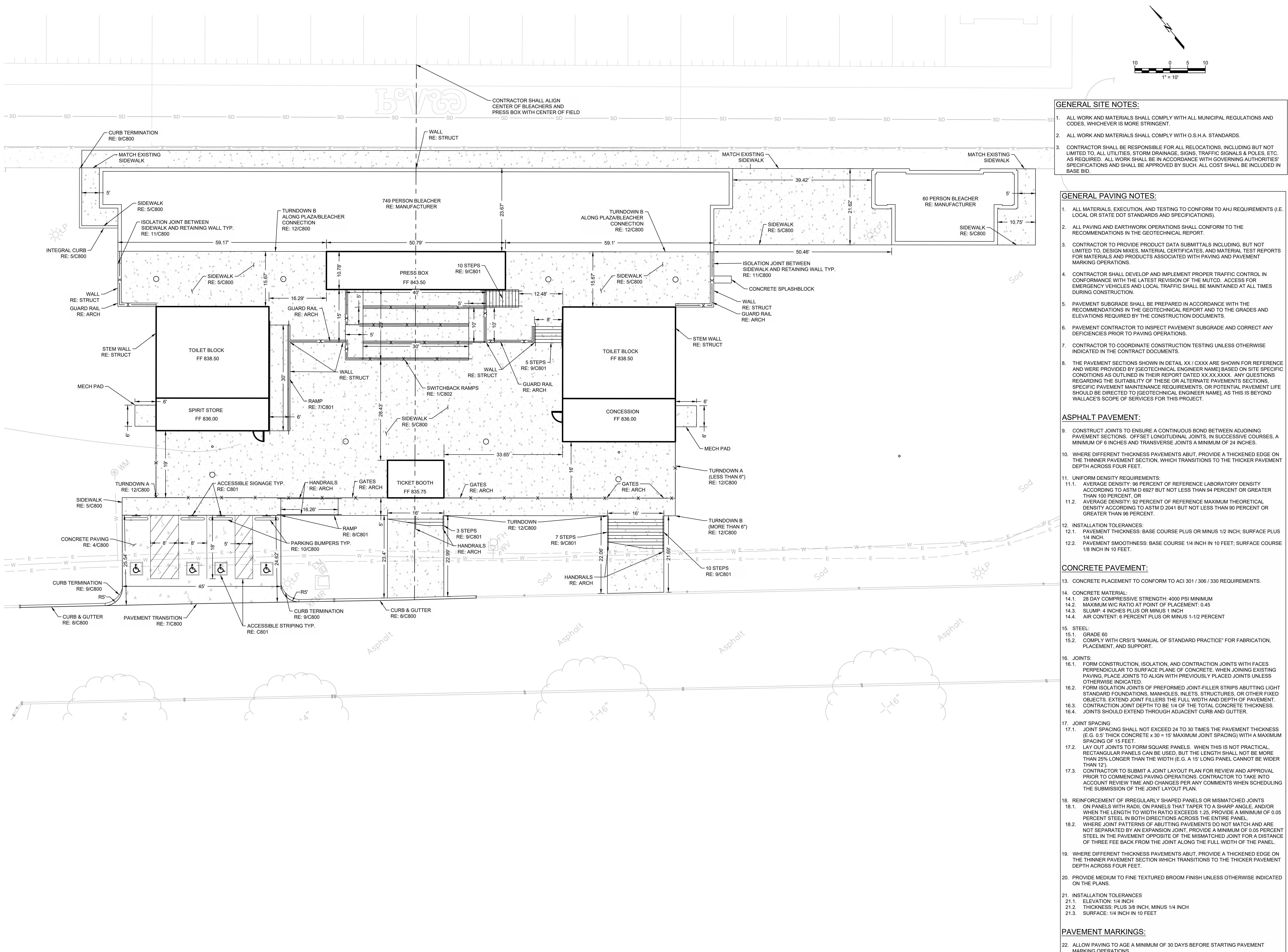
GH2 PROJECT NUMBER:
20210121.35
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
SITE PLAN

SHEET NUMBER:
C400

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GENERAL SITE NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.
- ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC., AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.

GENERAL PAVING NOTES:

- ALL MATERIALS, EXECUTION, AND TESTING TO CONFORM TO AHJ REQUIREMENTS (I.E. LOCAL OR STATE DOT STANDARDS AND SPECIFICATIONS).
- ALL PAVING AND EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
- CONTRACTOR TO PROVIDE PRODUCT DATA SUBMITTALS INCLUDING, BUT NOT LIMITED TO, DESIGN MIXES, MATERIAL CERTIFICATES, AND MATERIAL TEST REPORTS FOR MATERIALS AND PRODUCTS COMPLIANT WITH PAVING AND PAVEMENT MARKING OPERATIONS.
- CONTRACTOR SHALL DEVELOP AND IMPLEMENT PROPER TRAFFIC CONTROL IN CONFORMANCE WITH THE LATEST REVISION OF THE MUTCD. ACCESS FOR EMERGENCY VEHICLES AND LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- PAVEMENT SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND TO THE GRADES AND ELEVATIONS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- PAVEMENT CONTRACTOR TO INSPECT PAVEMENT SUBGRADE AND CORRECT ANY DEFICIENCIES PRIOR TO PAVING OPERATIONS.
- CONTRACTOR TO COORDINATE CONSTRUCTION TESTING UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- THE PAVEMENT SECTIONS SHOWN IN DETAIL XX / CXXX ARE SHOWN FOR REFERENCE AND WERE PROVIDED BY (GEOTECHNICAL ENGINEER NAME) BASED ON SITE SPECIFIC CONDITIONS AS OUTLINED IN THEIR REPORT DATED XX.XX.XXXX. ANY QUESTIONS REGARDING THE SUITABILITY OF THESE OR ALTERNATE PAVEMENTS SECTIONS, SPECIFIC PAVEMENT MAINTENANCE REQUIREMENTS, OR POTENTIAL PAVEMENT LIFE SHOULD BE DIRECTED TO (GEOTECHNICAL ENGINEER NAME), AS THIS IS BEYOND WALLACE'S SCOPE OF SERVICES FOR THIS PROJECT.

ASPHALT PAVEMENT:

- CONSTRUCT JOINTS TO ENSURE A CONTINUOUS BOND BETWEEN ADJOINING PAVEMENT SECTIONS. OFFSET LONGITUDINAL JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 6 INCHES AND TRANSVERSE JOINTS A MINIMUM OF 24 INCHES.
- WHERE DIFFERENT THICKNESS PAVEMENTS ABUT, PROVIDE A THICKENED EDGE ON THE THINNER PAVEMENT SECTION, WHICH TRANSITIONS TO THE THICKER PAVEMENT DEPTH ACROSS FOUR FEET.
- UNIFORM DENSITY REQUIREMENTS:
 - AVERAGE DENSITY: 96 PERCENT OF REFERENCE LABORATORY DENSITY ACCORDING TO ASTM D 6927 BUT NOT LESS THAN 94 PERCENT OR GREATER THAN 100 PERCENT.
 - AVERAGE DENSITY: 92 PERCENT OF REFERENCE MAXIMUM THEORETICAL DENSITY ACCORDING TO ASTM D 2041 BUT NOT LESS THAN 90 PERCENT OR GREATER THAN 96 PERCENT.
- INSTALLATION TOLERANCES:
 - PAVEMENT THICKNESS: BASE COURSE PLUS OR MINUS 1/2 INCH; SURFACE PLUS 1/4 INCH.
 - PAVEMENT SMOOTHNESS: BASE COURSE 1/4 INCH IN 10 FEET; SURFACE COURSE 1/8 INCH IN 10 FEET.

CONCRETE PAVEMENT:

- CONCRETE PLACEMENT TO CONFORM TO ACI 301 / 306 / 330 REQUIREMENTS.
- CONCRETE MATERIAL:
 - 28 DAY COMPRESSIVE STRENGTH: 4000 PSI MINIMUM
 - MAXIMUM W/C RATIO AT POINT OF PLACEMENT: 0.45
 - SLUMP: 4 INCHES PLUS OR MINUS 1 INCH
 - AIR CONTENT: 6 PERCENT PLUS OR MINUS 1-1/2 PERCENT
- STEEL:
 - GRADE 60
 - COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATION, PLACEMENT, AND SUPPORT.
- JOINTS:
 - FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. WHEN JOINING EXISTING PAVING, PLACE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS UNLESS OTHERWISE INDICATED.
 - FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING LIGHT STANDARD FOUNDATIONS, MANHOLES, INLETS, STRUCTURES, OR OTHER FIXED OBJECTS. EXTEND JOINT FILLERS THE FULL WIDTH AND DEPTH OF PAVEMENT.
 - CONTRACTION JOINT DEPTH TO BE 1/4 OF THE TOTAL CONCRETE THICKNESS.
 - JOINTS SHOULD EXTEND THROUGH ADJACENT CURB AND GUTTER.
- JOINT SPACING:
 - JOINT SPACING SHALL NOT EXCEED 24 TO 30 TIMES THE PAVEMENT THICKNESS (E.G. 0.5" THICK CONCRETE x 30 = 15" MAXIMUM JOINT SPACING) WITH A MAXIMUM SPACING OF 15 FEET.
 - LAY OUT JOINTS TO FORM SQUARE PANELS. WHEN THIS IS NOT PRACTICAL, RECTANGULAR PANELS CAN BE USED, BUT THE LENGTH SHALL NOT BE MORE THAN 25% LONGER THAN THE WIDTH (E.G. A 15' LONG PANEL CANNOT BE WIDER THAN 12').
 - CONTRACTOR TO SUBMIT A JOINT LAYOUT PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING PAVING OPERATIONS. CONTRACTOR TO TAKE INTO ACCOUNT REVIEW TIME AND CHANGES PER ANY COMMENTS WHEN SCHEDULING THE SUBMISSION OF THE JOINT LAYOUT PLAN.
- REINFORCEMENT OF IRREGULARLY SHAPED PANELS OR MISMATCHED JOINTS:
 - ON PANELS WITH RADIUS, ON PANELS THAT TAPER TO A SHARP ANGLE, AND/OR WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 1.25, PROVIDE A MINIMUM OF 0.05 PERCENT STEEL IN BOTH DIRECTIONS ACROSS THE ENTIRE PANEL.
 - WHERE JOINT PATTERNS OF ABUTTING PAVEMENTS DO NOT MATCH AND ARE NOT SEPARATED BY AN EXPANSION JOINT, PROVIDE A MINIMUM OF 0.05 PERCENT STEEL IN THE PAVEMENT OPPOSITE OF THE MISMATCHED JOINT FOR A DISTANCE OF THREE FEET BACK FROM THE JOINT ALONG THE FULL WIDTH OF THE PANEL.
- WHERE DIFFERENT THICKNESS PAVEMENTS ABUT, PROVIDE A THICKENED EDGE ON THE THINNER PAVEMENT SECTION WHICH TRANSITIONS TO THE THICKER PAVEMENT DEPTH ACROSS FOUR FEET.
- PROVIDE MEDIUM TO FINE TEXTURED BROOM FINISH UNLESS OTHERWISE INDICATED ON THE PLANS.
- INSTALLATION TOLERANCES:
 - ELEVATION: 1/4 INCH
 - THICKNESS: PLUS 3/8 INCH, MINUS 1/4 INCH
 - SURFACE: 1/4 INCH IN 10 FEET

PAVEMENT MARKINGS:

- ALLOW PAVING TO AGE A MINIMUM OF 30 DAYS BEFORE STARTING PAVEMENT MARKING OPERATIONS.
- PAVEMENT MARKING PAINT SHALL BE ACRYLIC, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH FS TTP-1982, TYPE II, WITH A DRYING TIME OF LESS THAN THREE MINUTES.
- COLOR AS INDICATED.

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ARCHITECTS
A Native American Owned Firm



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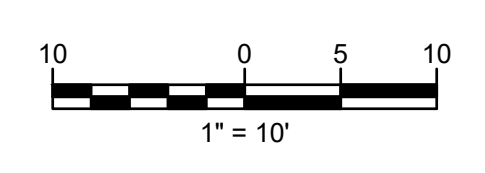
SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
17091 SOUTH MUSKOGEE AVENUE, TAHELEQUAH, OKLAHOMA 74464
C500
GRADING PLAN



GH2 PROJECT NUMBER:
20210121.35
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

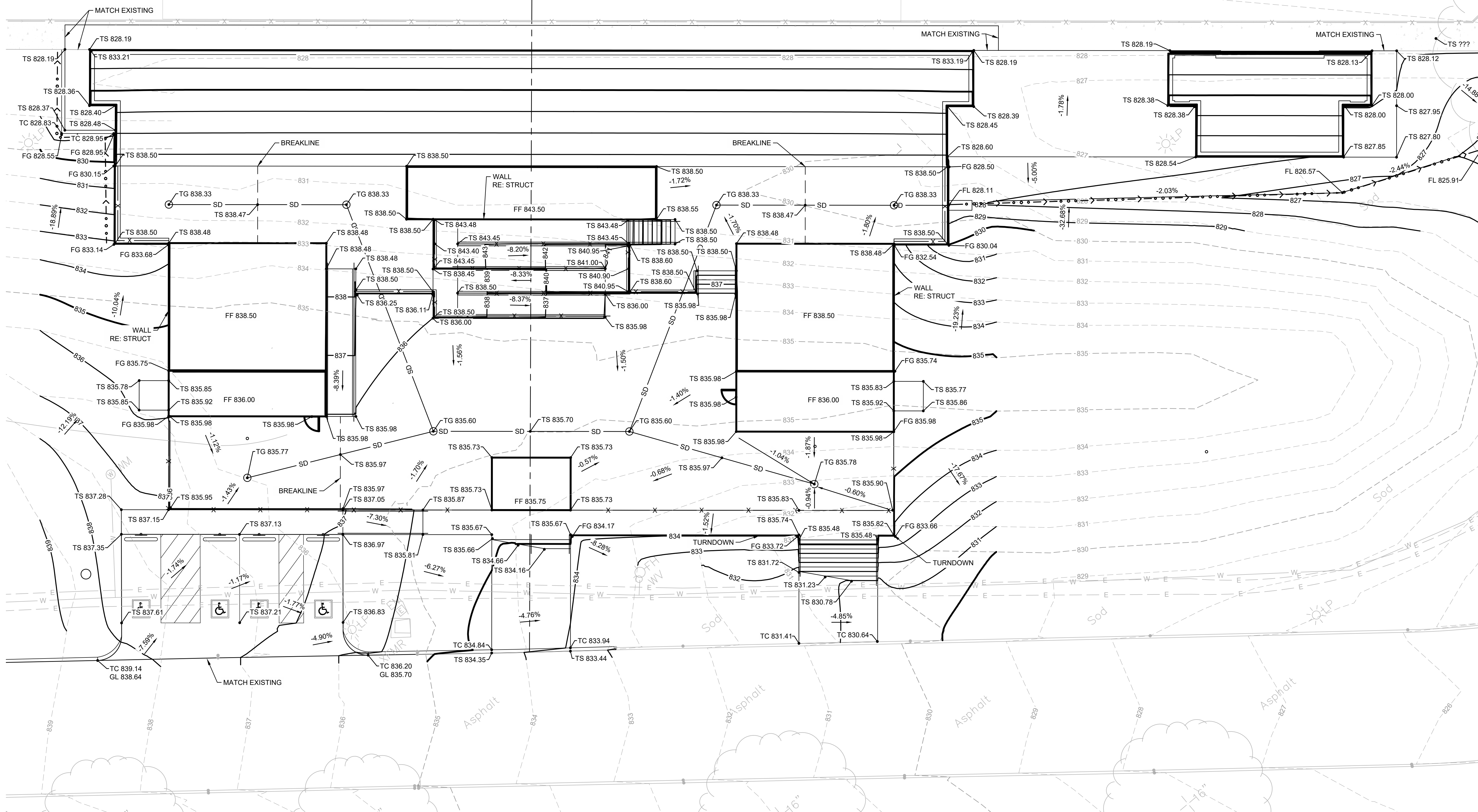
SHEET NUMBER:
GRADING PLAN

SHEET NUMBER:
C500
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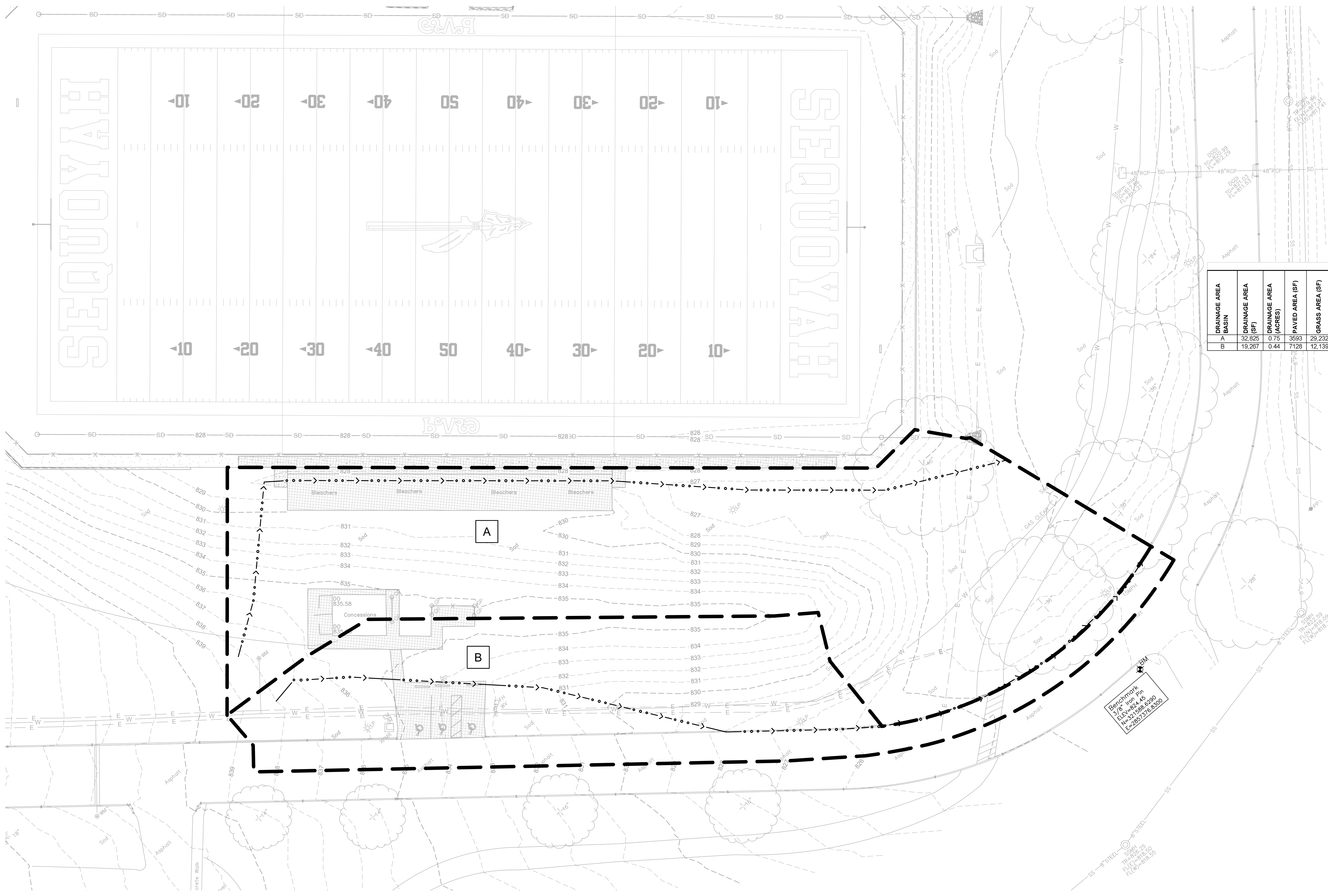


GENERAL GRADING NOTES:

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, INSPECTED, AND APPROVED BY LOCAL AUTHORITIES.
- ALL BENCHMARKS, CONTROL POINTS, PROPERTY MARKERS, AND RIGHT-OF-WAY MONUMENTS DISTURBED OR DESTROYED SHALL BE RESET UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OKLAHOMA. ALL SURVEYING COSTS SHALL BE THE CONTRACTOR'S.
- THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
- TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
- REFERENCE GEOTECHNICAL ENGINEERING REPORT BY BUILDING & EARTH SCIENCES, INC. DATED MARCH 1, 2023 FOR COMPLETE PAVING AND SUBGRADE RECOMMENDATIONS. CIVIL ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
- UNDERCUTTING OF SOFT SPOTS AND PLACEMENT OF EARTHWORK IS GOVERNED FIRST BY THE GEOTECHNICAL REPORT. OBSERVATION AND TESTING SHALL BE PERFORMED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOFT SPOTS ARE PROPERLY OVEREXCAVATED AND REPLACED OR STABILIZED.
- IF EXCAVATED MATERIAL IS UNSUITABLE FOR COMPACTION, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL FURNISH SUITABLE BORROW.
- STRIPPING, PROOFROLLING, SUBGRADE SCARIFICATION, COMPACTION, AND FILL CONSTRUCTION IN THE BUILDING AND PAVING AREAS SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT. EMBANKMENT BENEATH ARTIFICIAL TURF OR FOR PAVING SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES AND COMPACTED TO A MINIMUM OF 98% AND 95% STANDARD PROCTOR DENSITY, RESPECTIVELY, AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SPECIFIED THEREIN. CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
- EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
- PAVING AND ARTIFICIAL TURF CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL STAKING NECESSARY TO INSTALL CONDUITS SUFFICIENT FOR UTILITY AND IRRIGATION SERVICES WHETHER OR NOT SHOWN ON THE CIVIL ENGINEER'S PLANS.
- GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN. ABRUPT CHANGES IN SLOPES SHALL BE WELL ROUNDED. THE CONTRACTOR IS RESPONSIBLE FOR POSITIVE SITE DRAINAGE.
- CONTRACTOR IS RESPONSIBLE TO MEET AND MATCH NEW PAVEMENT WITH EXISTING ADJACENT PAVEMENT AREAS. THE TRANSITION BETWEEN THIS SITE AND ADJACENT SITES MUST BE SMOOTH AND MONOLITHIC. ALL GRADING MUST MEET AND MATCH GRDES ON ALL SIDES.
- ACCESSIBLE ROUTES AND SIDEWALKS ARE NOT TO EXCEED 5% RUNNING SLOPE (EXCEPT AT RAMPS) AND 2% CROSS. ACCESSIBLE PARKING AND ACCESS AISLES NOT TO EXCEED 2% SLOPE IN ANY DIRECTION. ALL RAMPS SHALL COMPLY WITH THE APPLICABLE ACCESSIBLE DESIGN GUIDELINES.
- ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL MEET AND MATCH TOP OF JUNCTION BOXES/MANHOLES OR CLEANOUTS WITH FINISHED PAVING GRADES. FINAL GRADES OF ABOVE SURFACE UTILITIES NOT IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO JUNCTION BOX/MANHOLE LIDS, WATER METER LIDS, AND SEWER CLEANOUTS, ARE TO BE ADJUSTED BY THE UTILITY CONTRACTOR TO CONFORM TO LANDSCAPING SOD INSTALLATIONS.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS AT THE COMPLETION OF THE PROJECT.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
- UNLESS OTHERWISE INDICATED, ALL DISTURBED SOIL AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL AND SHALL BE PERMANENTLY STABILIZED WITH SEED OR SOD.
- REMOVE ALL TREES (INCLUDING ROOTBALLS), GRASS, WEEDS, ROOTS, AND OTHER DEBRIS FROM THE AREA TO BE EXCAVATED, FILLED, OR GRADED.
- EXISTING TREES WHERE INDICATED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING. ALL TREE PROTECTION FENCINGS TO BE INSPECTED DAILY AND ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES.



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LEGEND

- > DRAINAGE FLOW PATH
- DRAINAGE AREA BOUNDARY
- [B] DRAINAGE AREA LABEL

EXISTING DRAINAGE TABLE

DRAINAGE AREA BASIN	DRAINAGE AREA (SF)	DRAINAGE AREA (ACRES)	PAVED AREA (SF)	GRASS AREA (SF)	C FACTOR	REACH GRASS (FEET)	SLOPE GRASS (%)	VELOCITY GRASS (FPS)	REACH PAVING (FEET)	SLOPE PAVING (%)	VELOCITY PAVING (FPS)	TOTAL Tc (MIN)	100 (IN/HR)	100 (CFS)
A	32,825	0.74	3593	29,232	0.48	250	9.0%	2.09	160	3.33%	1.17	4.4	11.2	3.89
B	19,267	0.44	7128	12,139	0.60	170	6.0%	1.71	265	3.00%	3.52	2.9	11.9	3.18



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SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
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C501
 EXISTING DRAINAGE PLAN



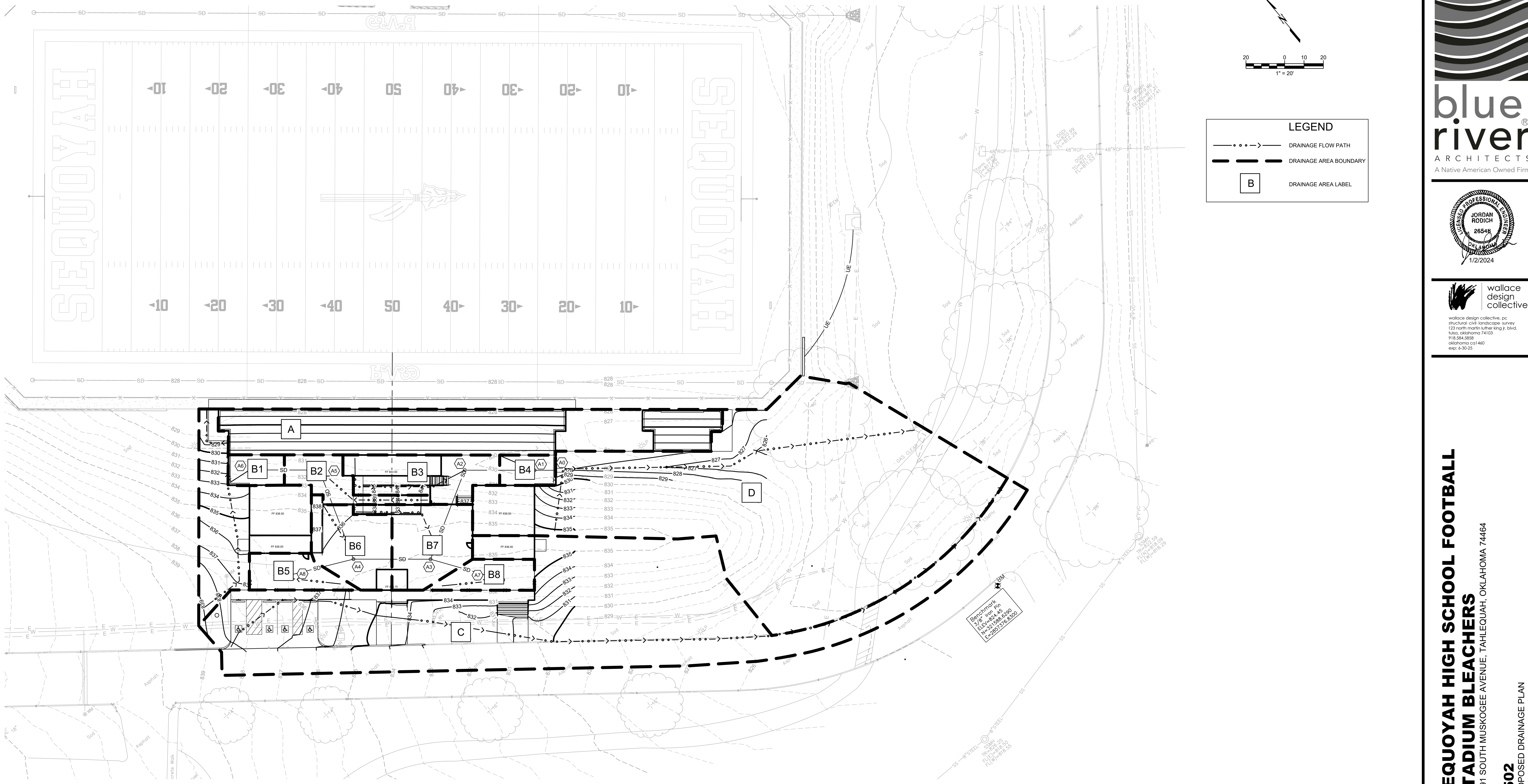
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EXISTING DRAINAGE PLAN

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PROPOSED DRAINAGE TABLE

DRAINAGE AREA	DRAINAGE AREA (SF)	DRAINAGE AREA (ACRES)	PAVED AREA (SF)	GRASS AREA (SF)	"C" FACTOR	REACH GRASS (FEET)	REACH PAVING (FEET)	SLOPE GRASS (%)	VELOCITY GRASS (FPS)	REACH PAVING (%)	VELOCITY PAVING (FPS)	TOTAL Tc (MIN)	Q 100 (INHR)	Q 100 (CFS)	% SLOPE AT INLET	SWH Q 100 AT INLET (CFS)	D 100 INLET (FEET)	MAX DEPTH AT INLET (FEET)	INLET MAX CAPACITY (CFS)	Q 100 BYPASS (CFS)	TO DRAINAGE AREA	CLOGGING FACTOR	INLET DESIGN	
A	9,098	0.21	7,155	1,943	0.83	125	10.0%	2.20	0.00%	0.00	0.00	0.9	13.1	2.28	-	-	-	-	-	-	-	-	-	Area Drain Round 12"
B1	460	0.01	460	0	0.95	0	0.0%	0.00	10	1.00%	2.03	0.1	13.7	0.14	sump	0.14	0.09	0.15	0.28	0.00	-	-	-	Area Drain Round 12"
B2	834	0.02	834	0	0.95	0	0.0%	0.00	60	4.00%	4.07	0.2	13.6	0.26	sump	0.26	0.14	0.15	0.28	0.00	-	-	-	Area Drain Round 12"
B3	1,661	0.04	1,661	0	0.95	0	0.0%	0.00	75	4.00%	4.07	0.3	13.5	0.49	sump	0.49	0.17	0.15	0.42	0.07	B4	0.5	Area Drain Round 16"	
B4	453	0.01	453	0	0.95	0	0.0%	0.00	10	1.00%	2.03	0.1	13.7	0.14	sump	0.20	0.09	0.15	0.42	0.00	-	-	-	Area Drain Round 16"
B5	811	0.02	811	0	0.95	0	0.0%	0.00	30	1.00%	2.03	0.2	13.6	0.24	sump	0.24	0.13	0.22	0.48	0.00	-	-	-	Area Drain Round 12"
B6	1,568	0.04	1,568	0	0.95	0	0.0%	0.00	20	1.00%	2.03	0.2	13.6	0.47	sump	0.47	0.19	0.37	1.19	0.00	-	-	-	Area Drain Round 16"
B7	1,742	0.04	1,742	0	0.95	0	0.0%	0.00	50	4.00%	4.07	0.2	13.6	0.52	sump	0.52	0.17	0.37	1.19	0.00	-	-	-	Area Drain Round 16"
B8	717	0.02	717	0	0.95	0	0.0%	0.00	30	1.00%	2.03	0.2	13.6	0.21	sump	0.21	0.12	0.19	0.40	0.00	-	-	-	Area Drain Round 12"
C	16,534	0.38	8482	8,052	0.68	80	6.0%	1.71	365	6.00%	4.98	2.0	12.4	3.22	-	-	-	-	-	-	-	-	-	
D	18,168	0.42	0	18,168	0.40	220	3.0%	1.21	0	0.00%	0.00	3.0	11.9	1.98	-	-	-	-	-	-	-	-	-	

PIPE DESIGN TABLE

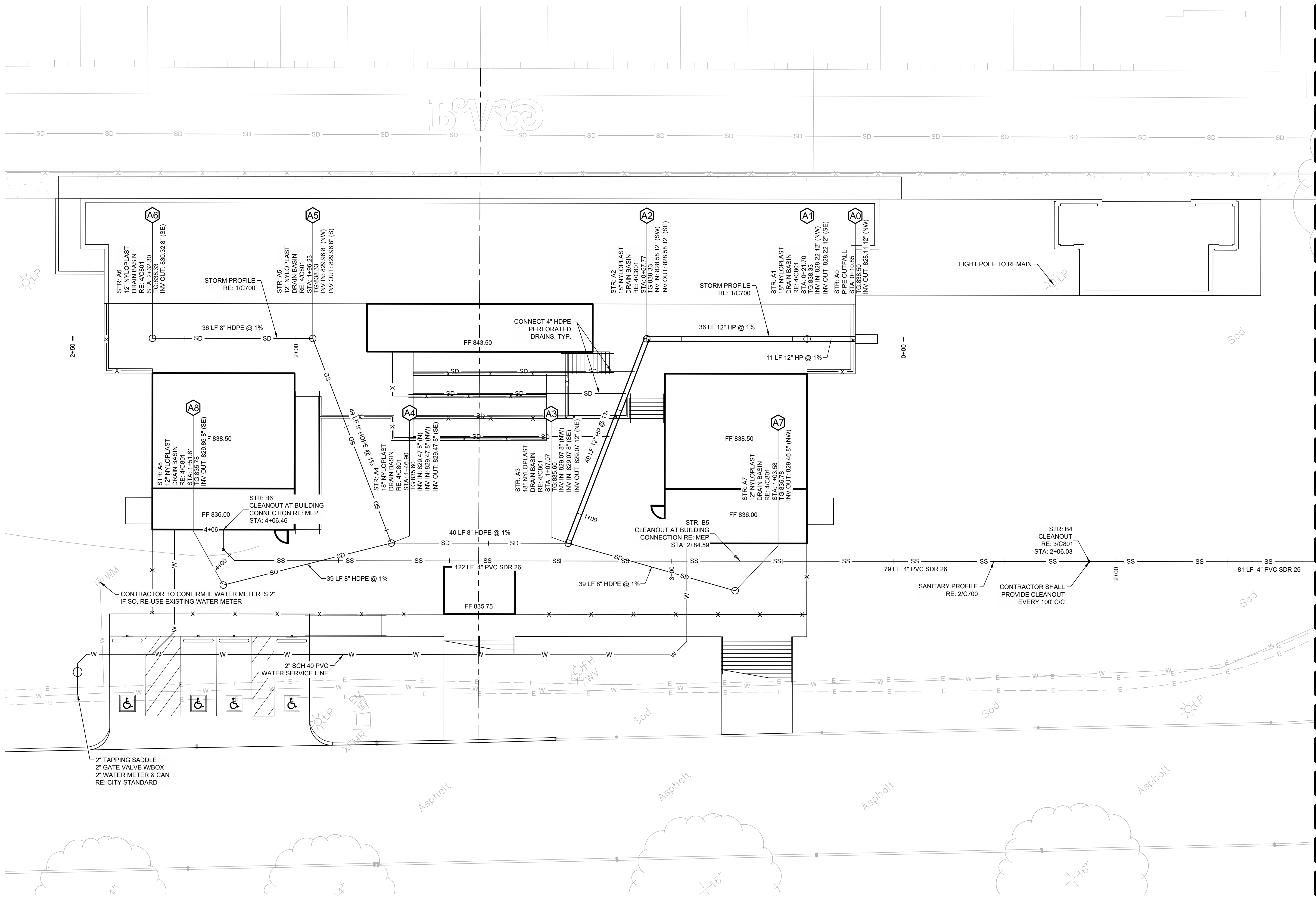
Label	Start Node	Invert (Start) (ft)	Stop Node	Invert (Stop) (ft)	Length (ft)	Slope (%)	Conduit Shape	Material	Manning's n	Diameter (in)	Flow (ft³/s)	Capacity (Full Flow) (ft³/s)	Hydraulic Grade Line (in) (ft)	Hydraulic Grade Line (Out) (ft)	Energy Grade Line (in) (ft)	Energy Grade Line (Out) (ft)	Velocity (Maximum) (ft/s)
A0-A1	A0	828.11	A1	828.22	11.0	-1.0	Circle	HP	0.012	12	2.46	3.86	828.89	828.71	829.19	829.10	5.21
A1-A2	A1	828.22	A2	828.58	36.0	-1.0	Circle	HP	0.012	12	2.26	3.86	829.22	829.94	829.50	829.16	5.11
A2-A3	A2	828.58	A3	829.07	49.0	-1.0	Circle	HP	0.012	12	1.84	3.86	829.65	829.41	829.89	829.51	4.86
A3-A4	A3	829.07	A4	829.47	40.0	-1.0	Circle	HDPE	0.012	8	1.11	1.31	829.97	829.67	830.21	829.85	4.21
A3-A7	A7	829.46	A3	829.07	39.0	1.0	Circle	HDPE	0.012	8	0.21	1.31	829.67	829.65	829.75	829.66	2.75
A4-A5	A4	829.47	A5	829.96	49.0	-1.0	Circle	HDPE	0.012	8	0.40	1.31	830.25	830.05	830.37	830.08	3.3
A4-A8	A8	829.86	A4	829.47	39.0	1.0	Circle	HDPE	0.012	8	0.24	1.31	830.09	830.05	830.17	830.06	2.85
A5-A6	A5	829.96	A6	830.32	36.0	-1.0	Circle	HDPE	0.012	8	0.14	1.31	830.49	830.36	830.55	830.36	2.45

RUNOFF SUMMARY (RATIONAL)

STORM EVENT	EXISTING RUNOFF (CFS)	PROPOSED RUNOFF (CFS)	DIFFERENCE (CFS)
	100 Year (1.0%)	7.07	9.94



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GENERAL UTILITY NOTES:

- PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/DEVELOPER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
- REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
- ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: 9/C801. STORM TRENCH DETAIL RE: 6/C801.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR CONTINUATION OF UTILITIES AT BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING WHETHER OR NOT SHOWN ON CIVIL PLANS. THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
- CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED WITH NON SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
- CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN OR PHOTOMETRIC PLAN (BY OTHERS) FOR ALL SITE LIGHTING CONSTRUCTION DETAILS, REQUIREMENTS, AND FINAL POLE LOCATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ADJUSTMENTS TO POLE LOCATIONS AS NECESSARY TO AVOID OBSTRUCTIONS (I.E. UNDERGROUND UTILITIES, SIDEWALKS, ETC.). CONTRACTOR SHALL POT HOLE EACH LOCATION WHERE A NEW LIGHT POLE IS TO BE PLACED PRIOR TO CONSTRUCTION TO VERIFY THERE ARE NO CONFLICTS WITH EXISTING UTILITIES. IF DAMAGES OCCUR TO EXISTING UTILITIES THEY WILL REPLACE OR REPAIR AT THEIR OWN EXPENSE. POLE LOCATIONS MAY NOT BE ADJUSTED WITHOUT PRIOR APPROVAL FROM THE ENGINEERS SINCE A CHANGE IN LOCATION CAN IMPACT THE INTENDED PHOTOMETRIC DESIGN.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER. COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.

MATCH LINE SEE SHEET C601



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123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
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oklahoma cot 1460
exp. 6-30-25

SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
17091 SOUTH MUSKOGEE AVENUE, TAHLEQUAH, OKLAHOMA 74464
C600
UTILITY PLAN



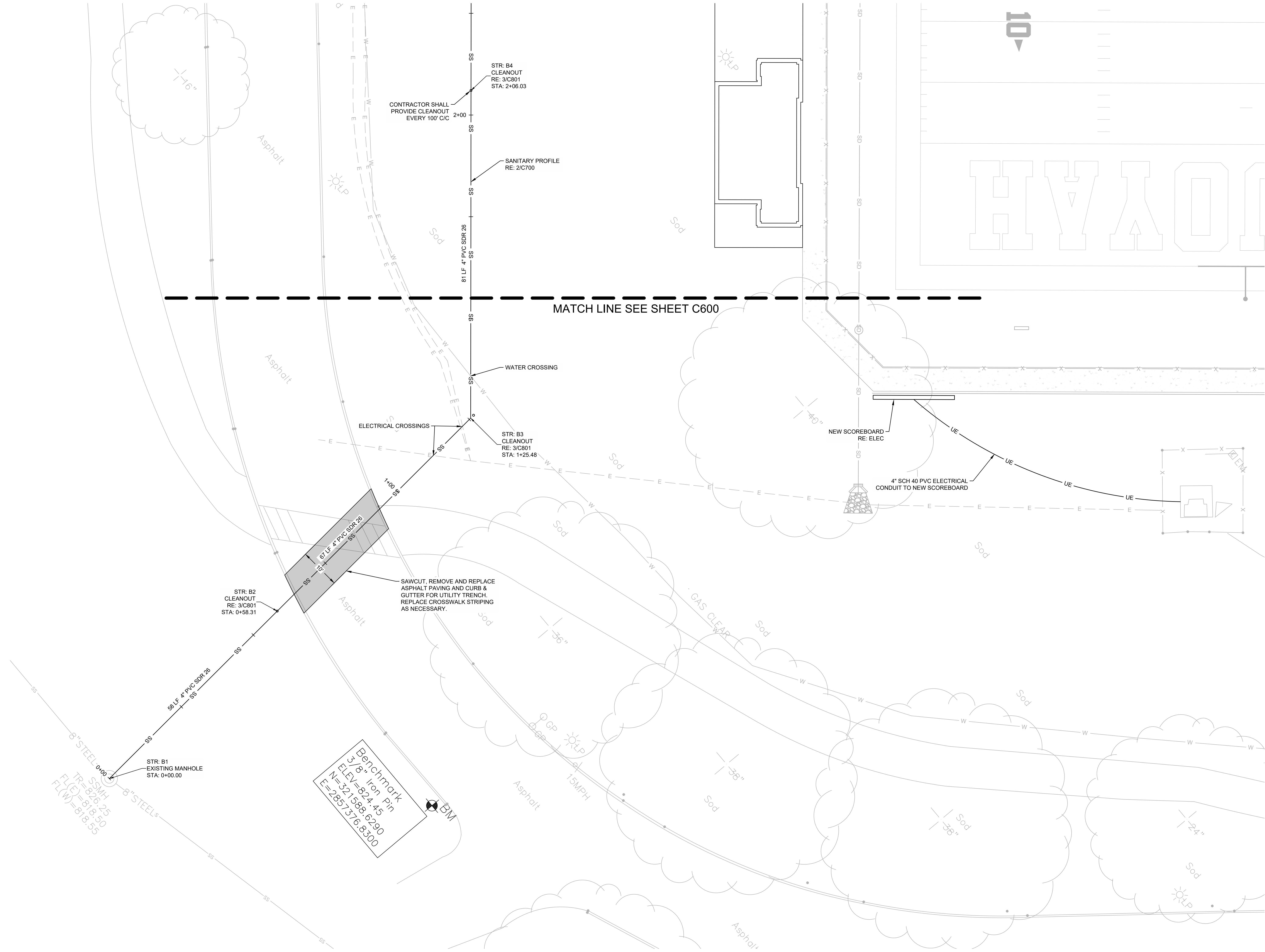
GH2 PROJECT NUMBER:
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CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
UTILITY PLAN

SHEET NUMBER:
C600



CAUTION
NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES

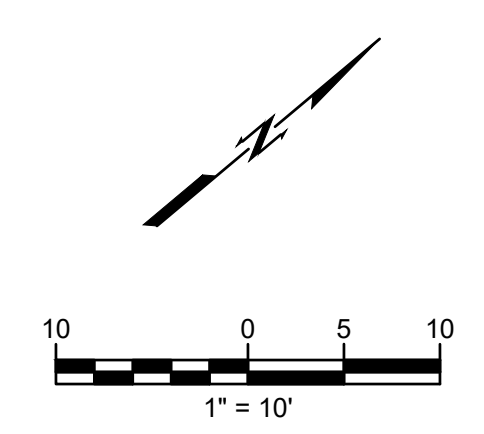


GENERAL UTILITY NOTES:

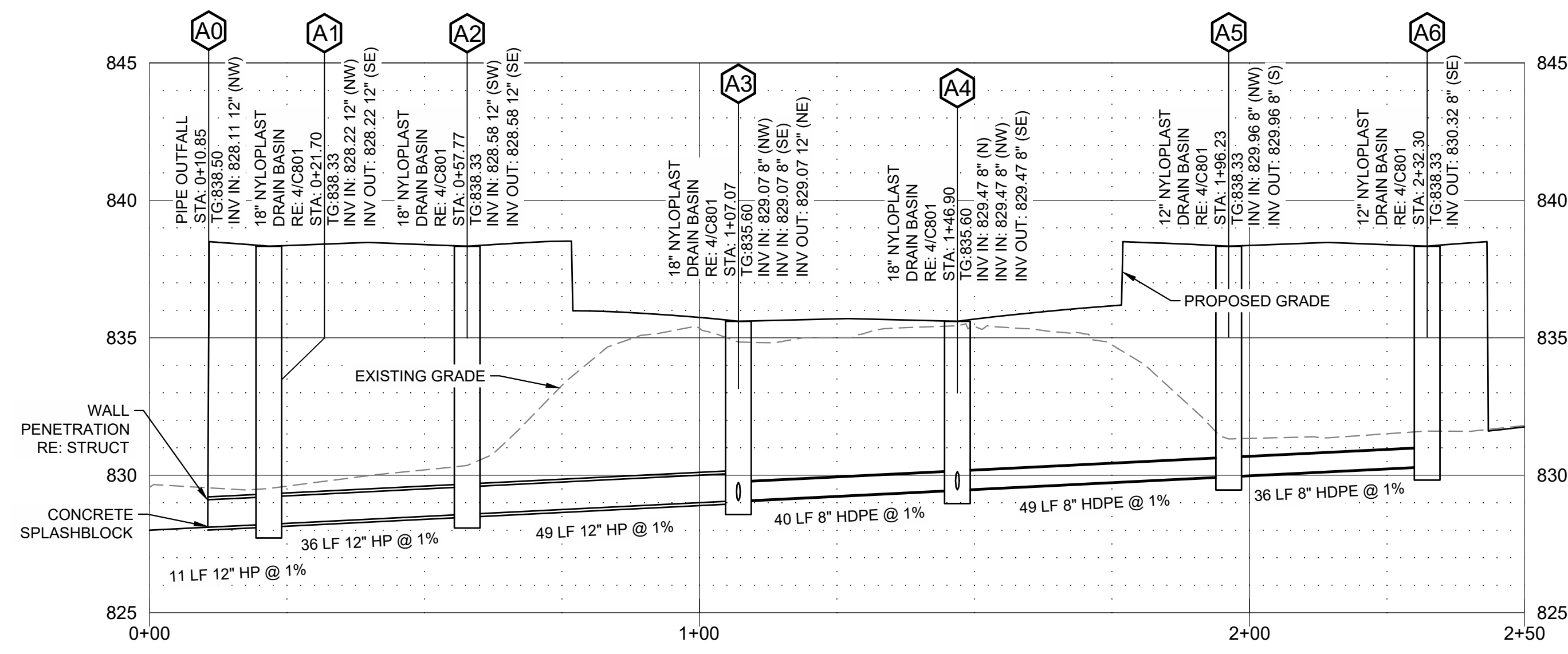
- PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/DEVELOPER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.

- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
- REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
- ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: XX/CXXX. STORM TRENCH DETAIL RE: XX/CXXX.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR CONTINUATION OF UTILITIES AT BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING WHETHER OR NOT SHOWN ON CIVIL PLANS. THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
- CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.

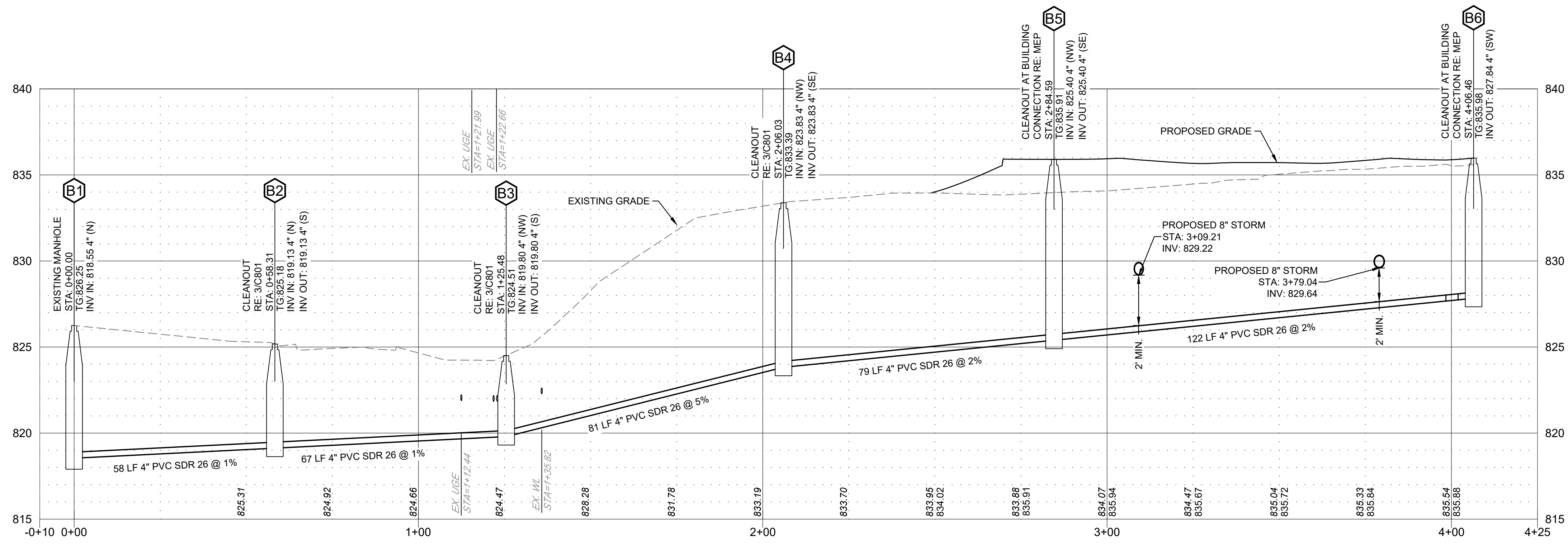
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED WITH NON SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
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- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.



CAUTION
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1 STORM PROFILE
 HORIZ. SCALE: 1"=20'
 VERT. SCALE: 1"=4'



2 SANITARY PROFILE
 HORIZ. SCALE: 1"=20'
 VERT. SCALE: 1"=4'



CAUTION
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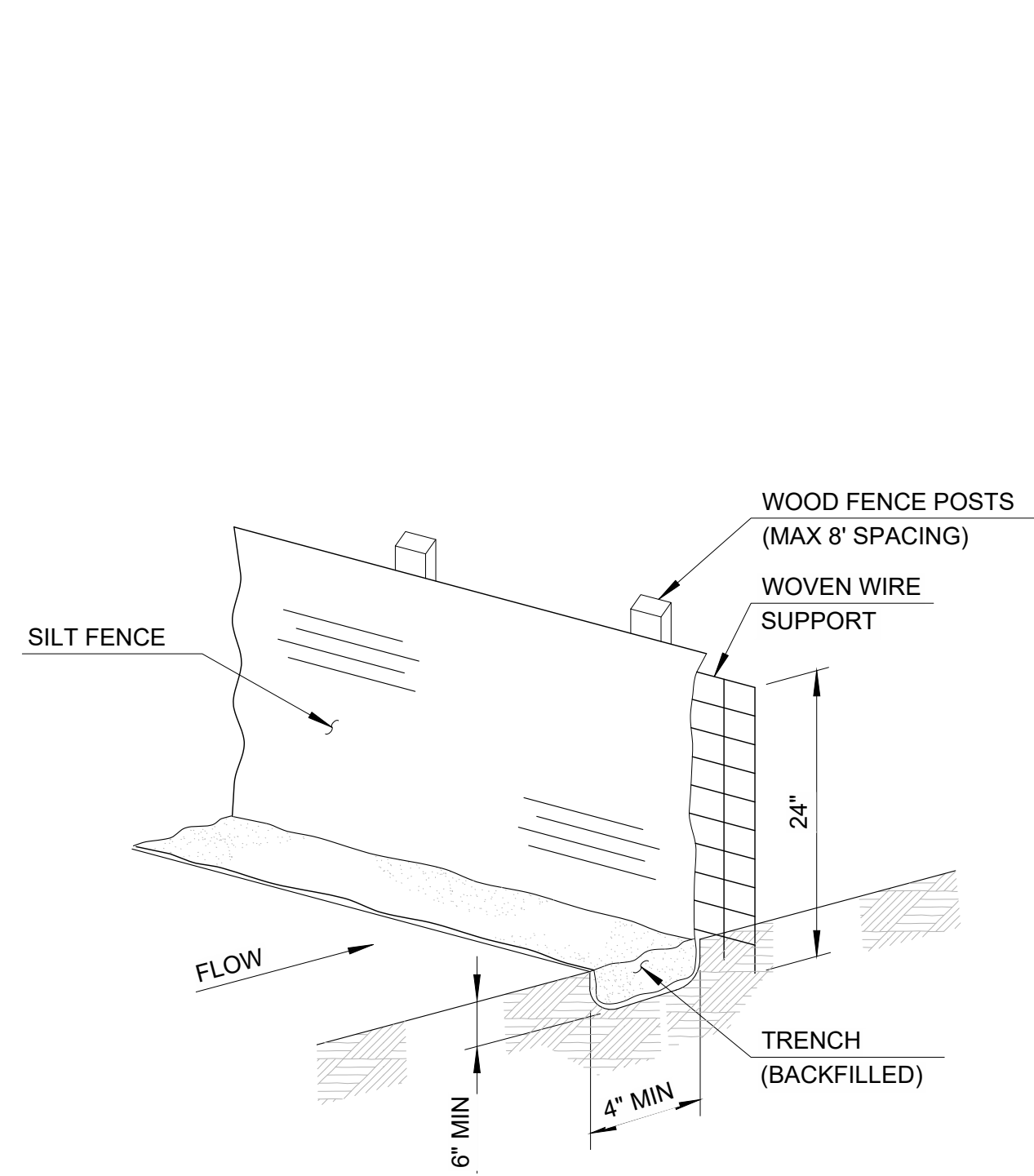
SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
 17091 SOUTH MUSKOGEE AVENUE, TAHEQUAH, OKLAHOMA 74464
C700
 UTILITY PROFILES



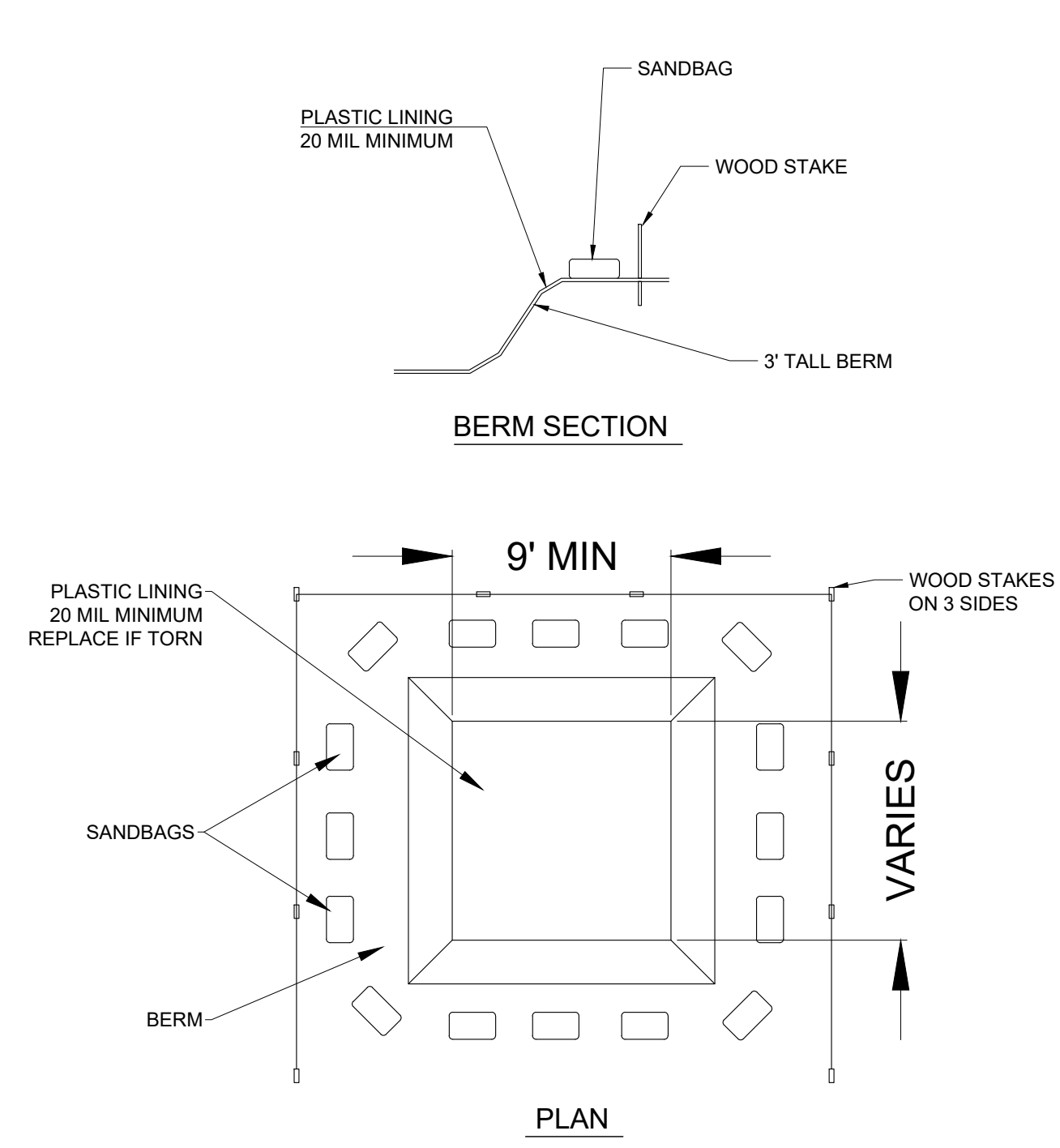
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SHEET NAME:
UTILITY PROFILES

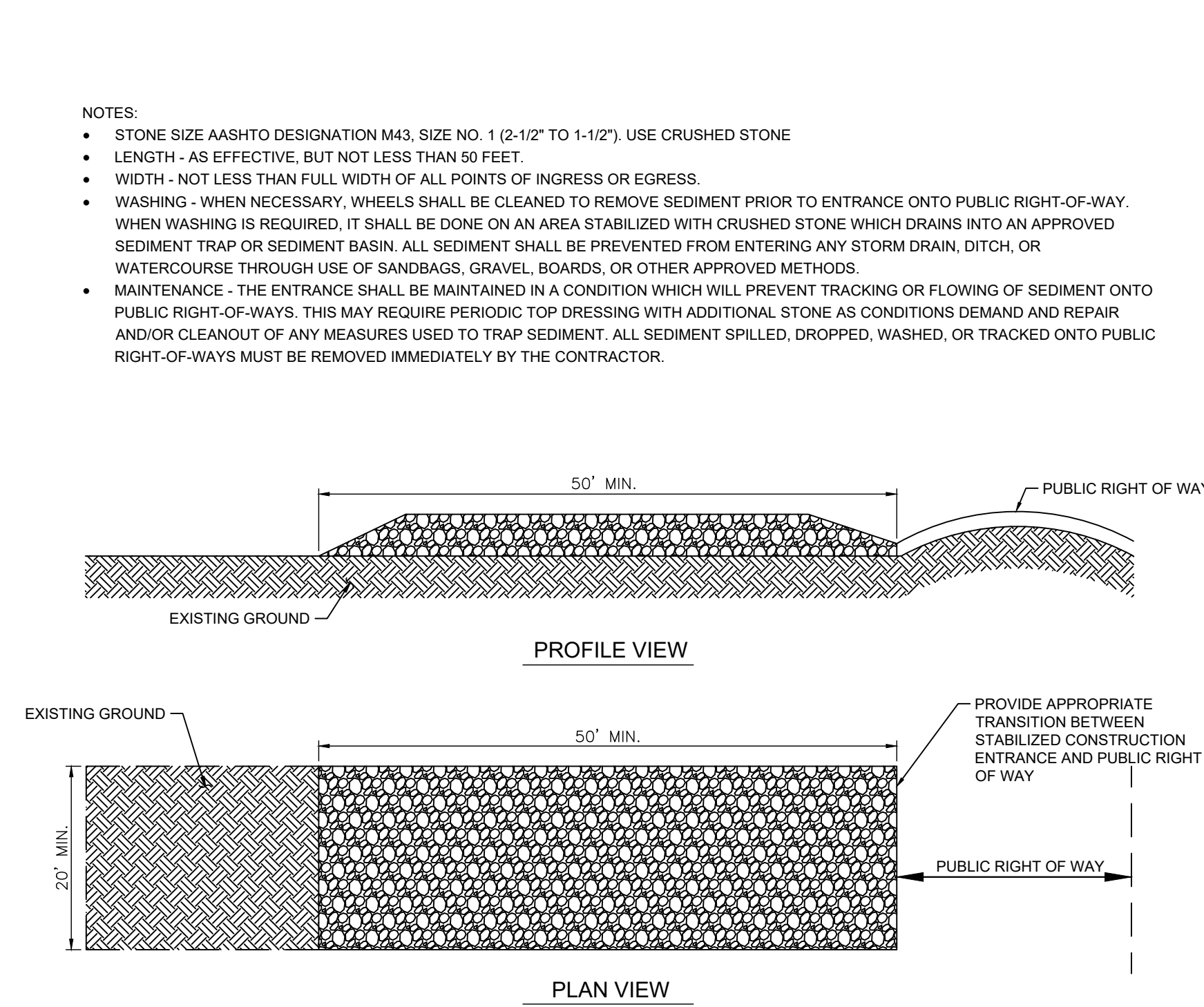
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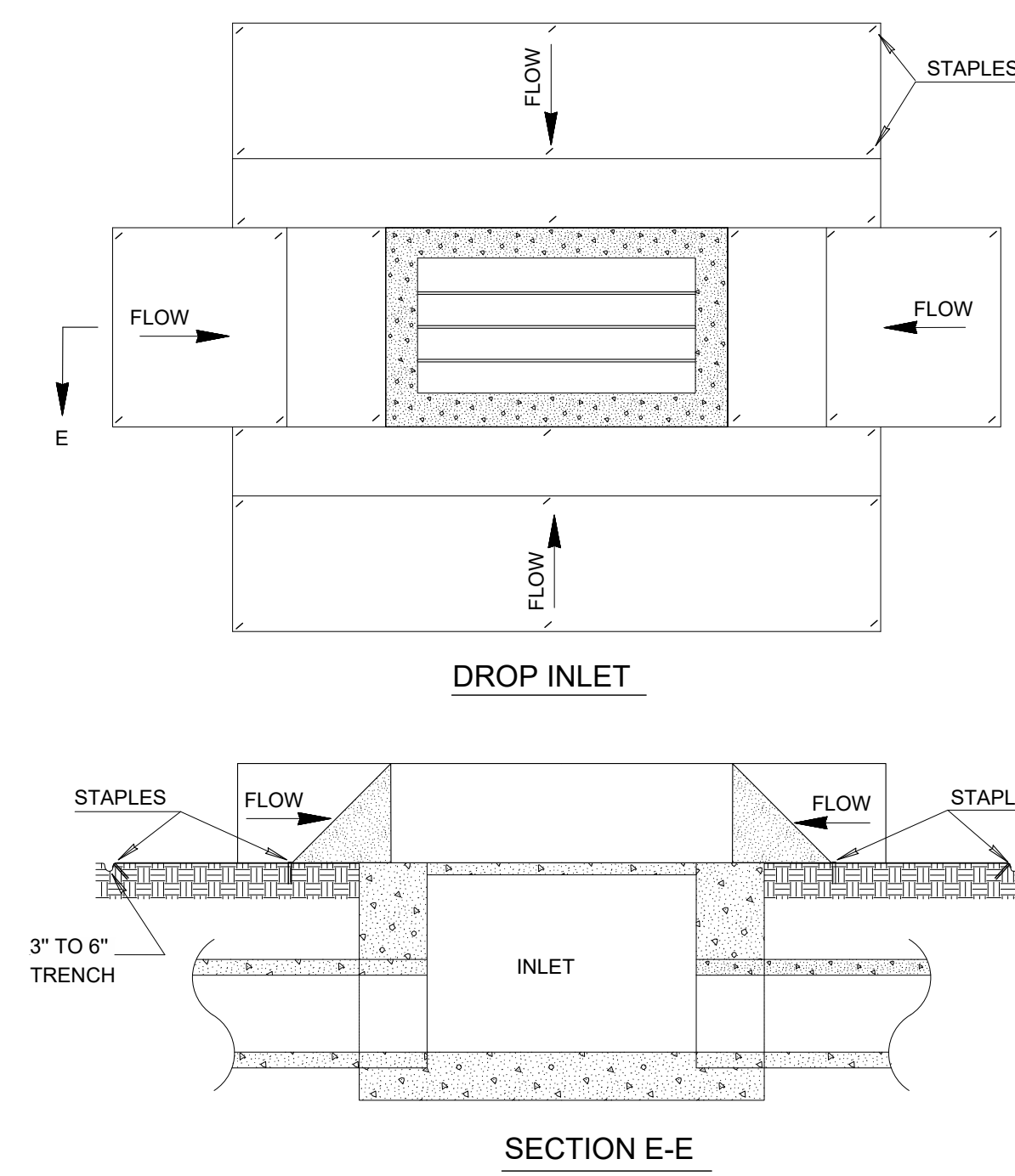
1 SILT FENCE
SCALE: NTS



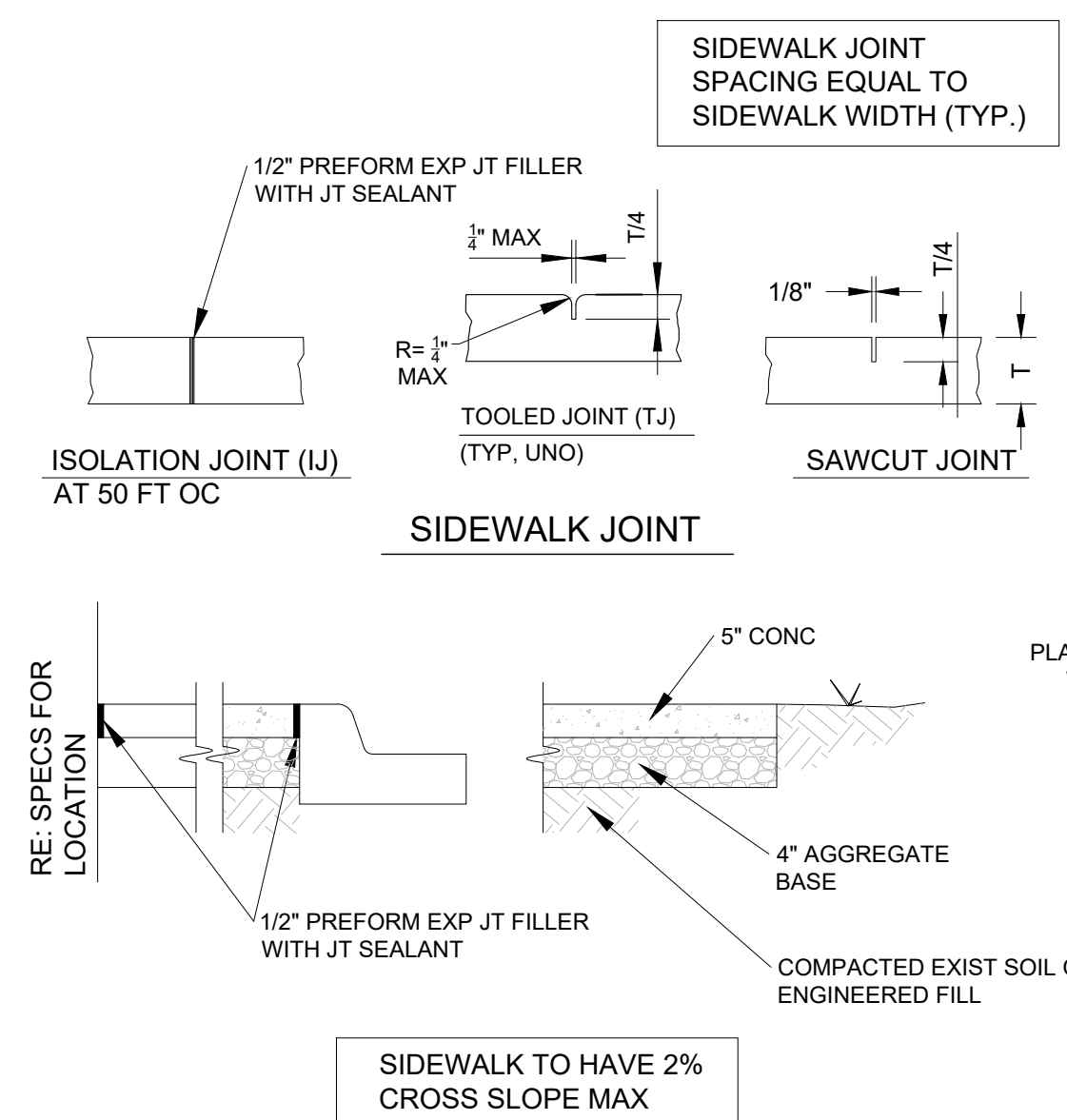
2 CONCRETE WASHOUT PIT
SCALE: NTS



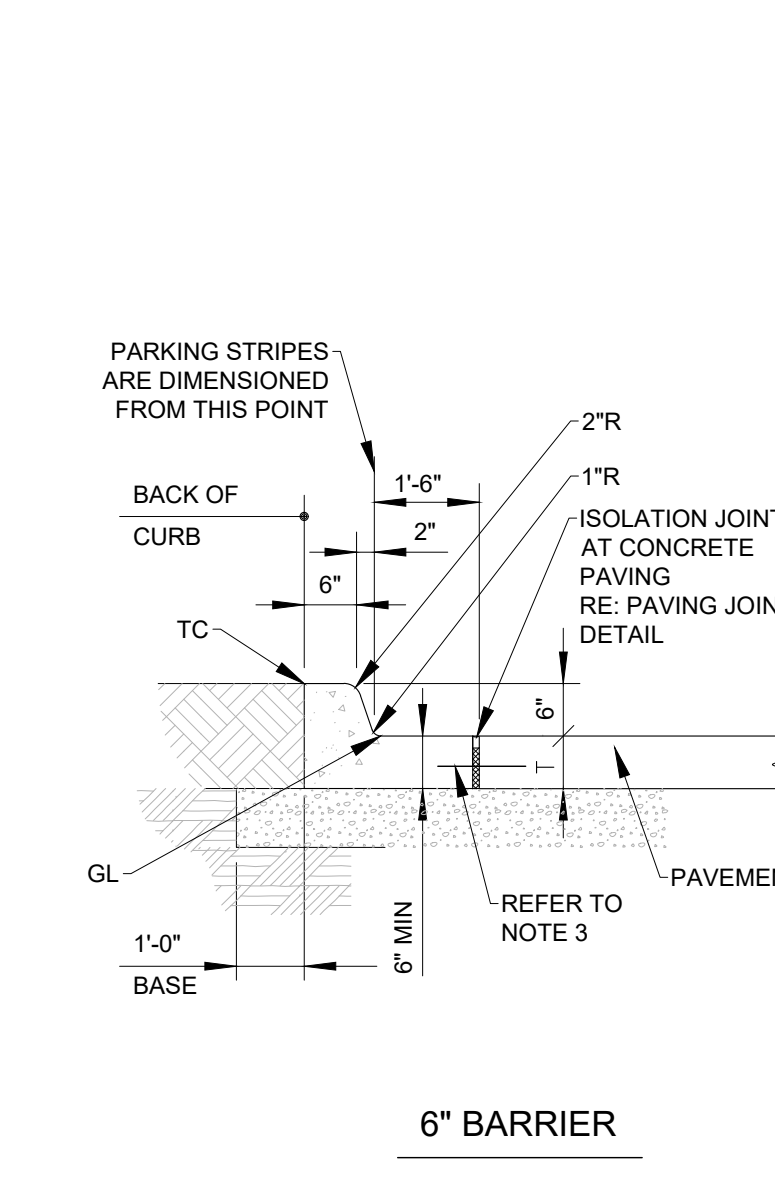
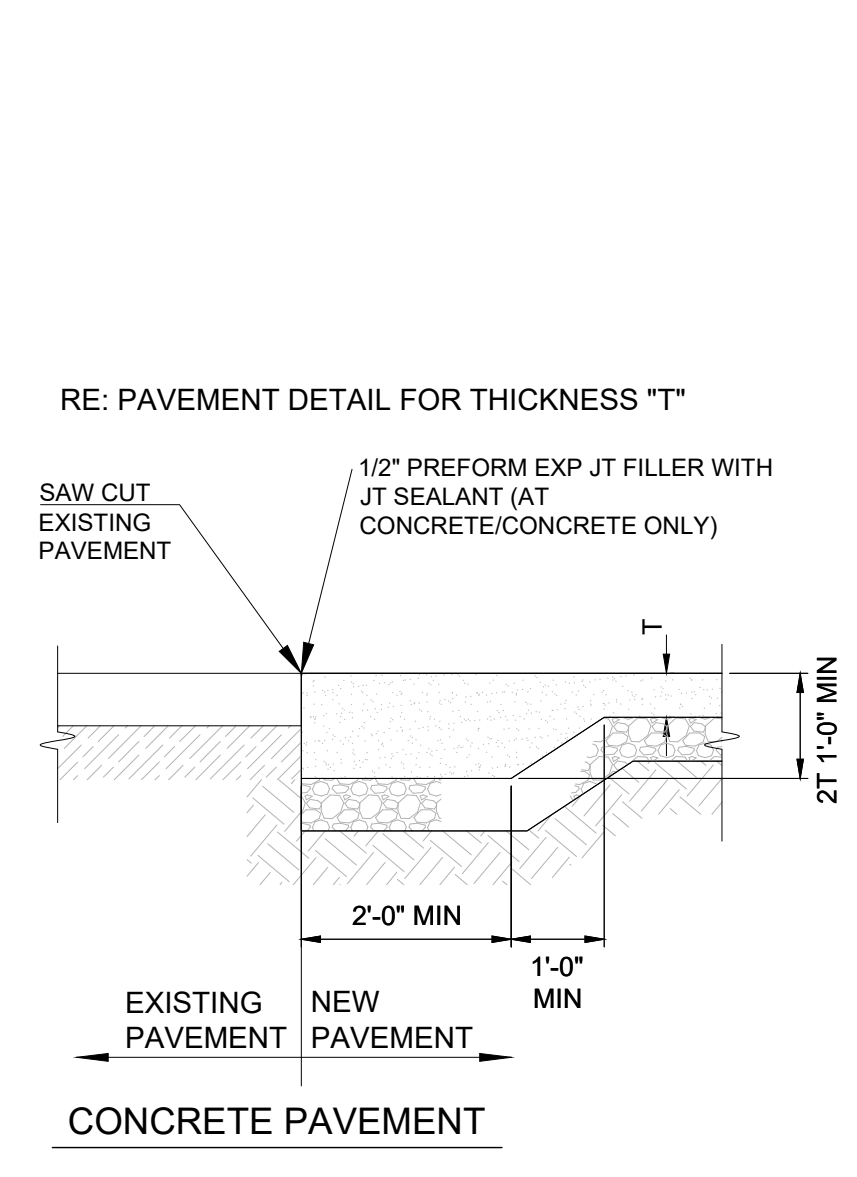
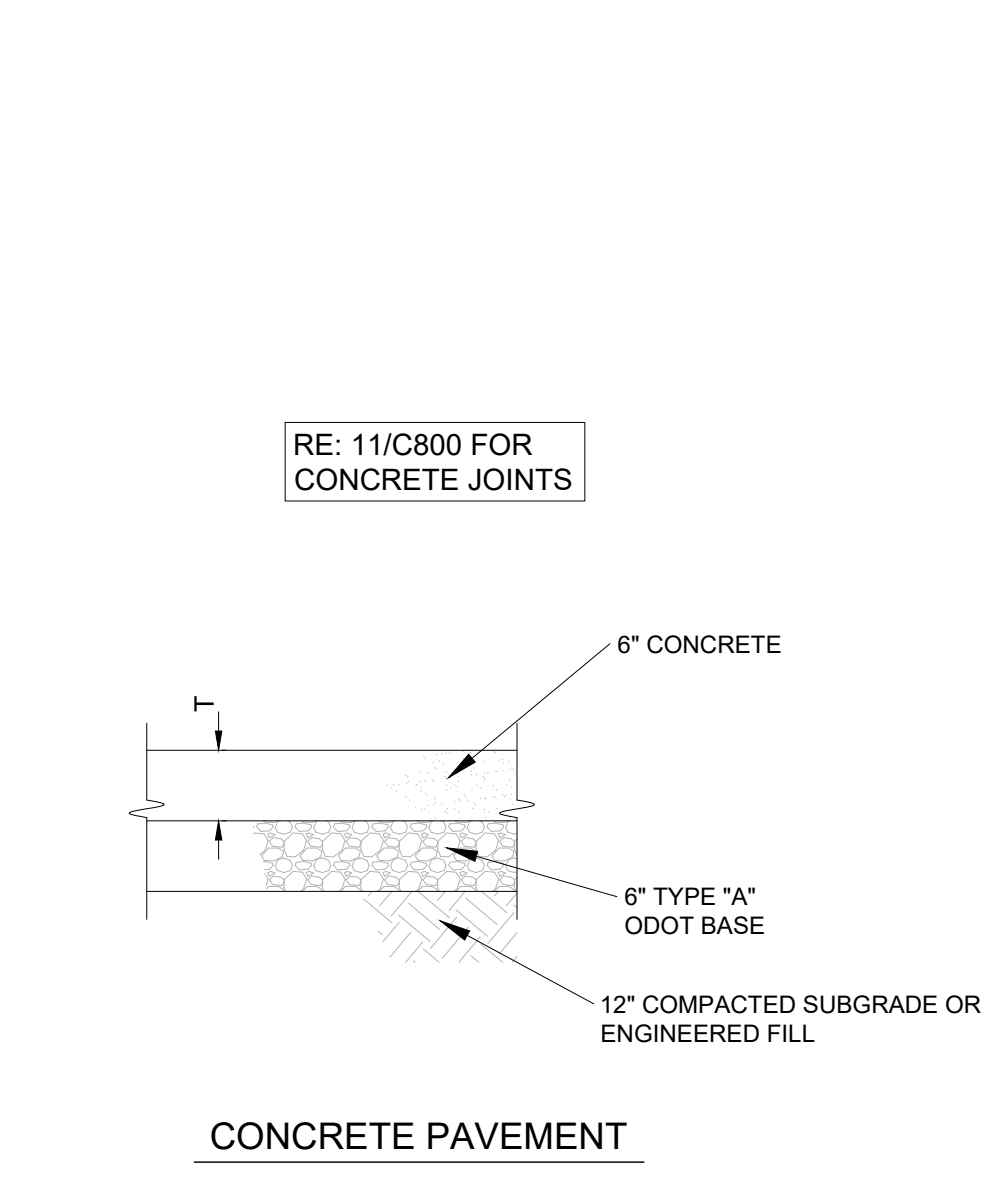
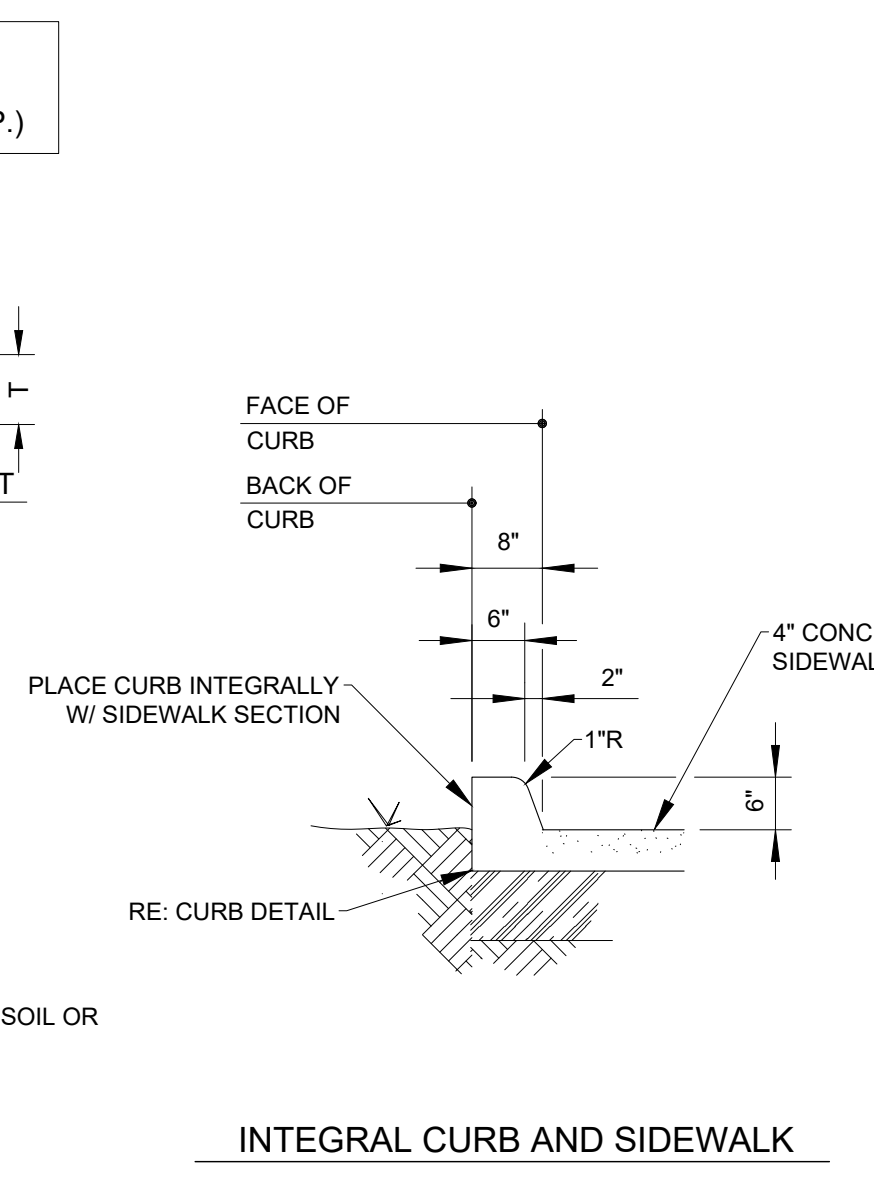
3 STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



4 TEMPORARY SILT DIKE (ODOT STD TSD-2)
SCALE: NTS



5 SIDEWALK
SCALE: NTS



1. PLACE JOINTS IN CURB TO MATCH PAVING - 15 FEET MAX
2. RE: PAVEMENT SECTIONS FOR THICKNESS 'T'; 6\"/>

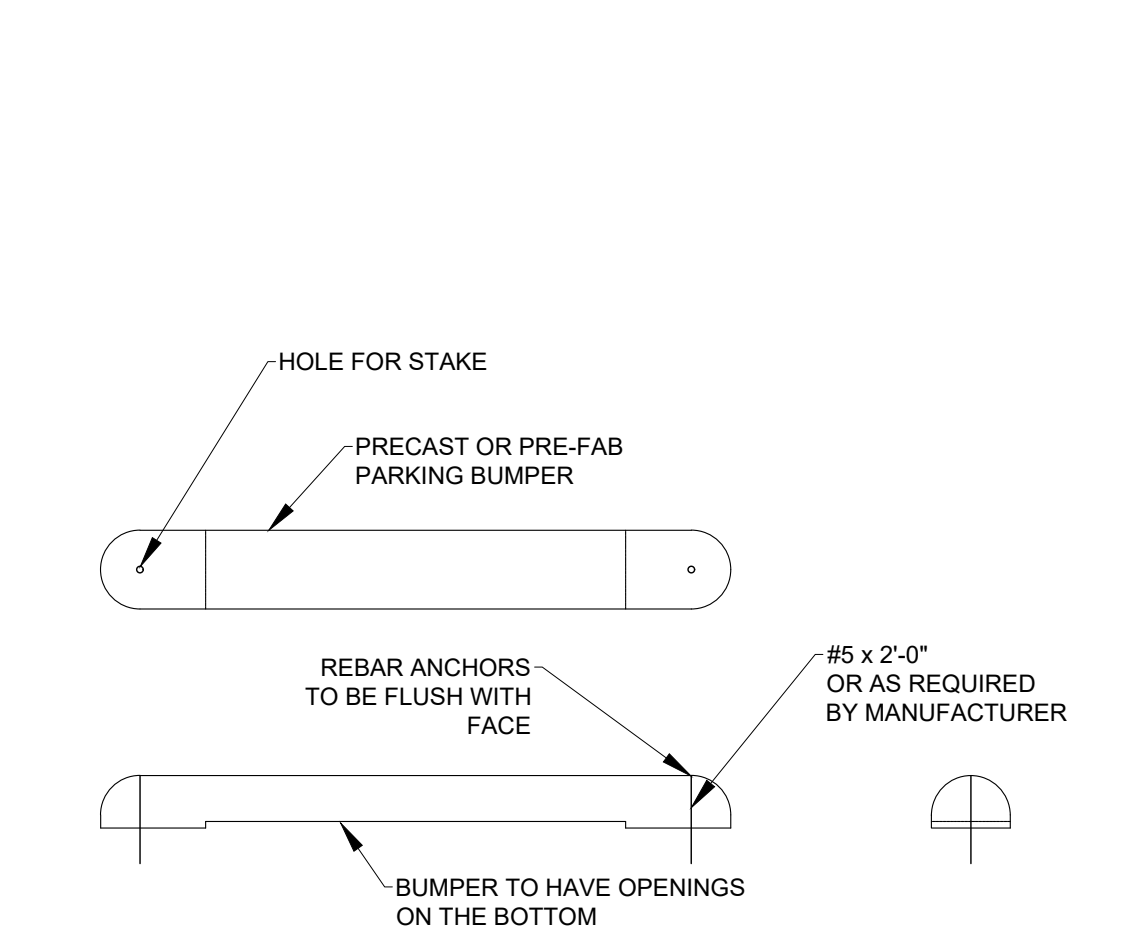
5 SIDEWALK
SCALE: NTS

6 PAVEMENT DETAIL
SCALE: NTS

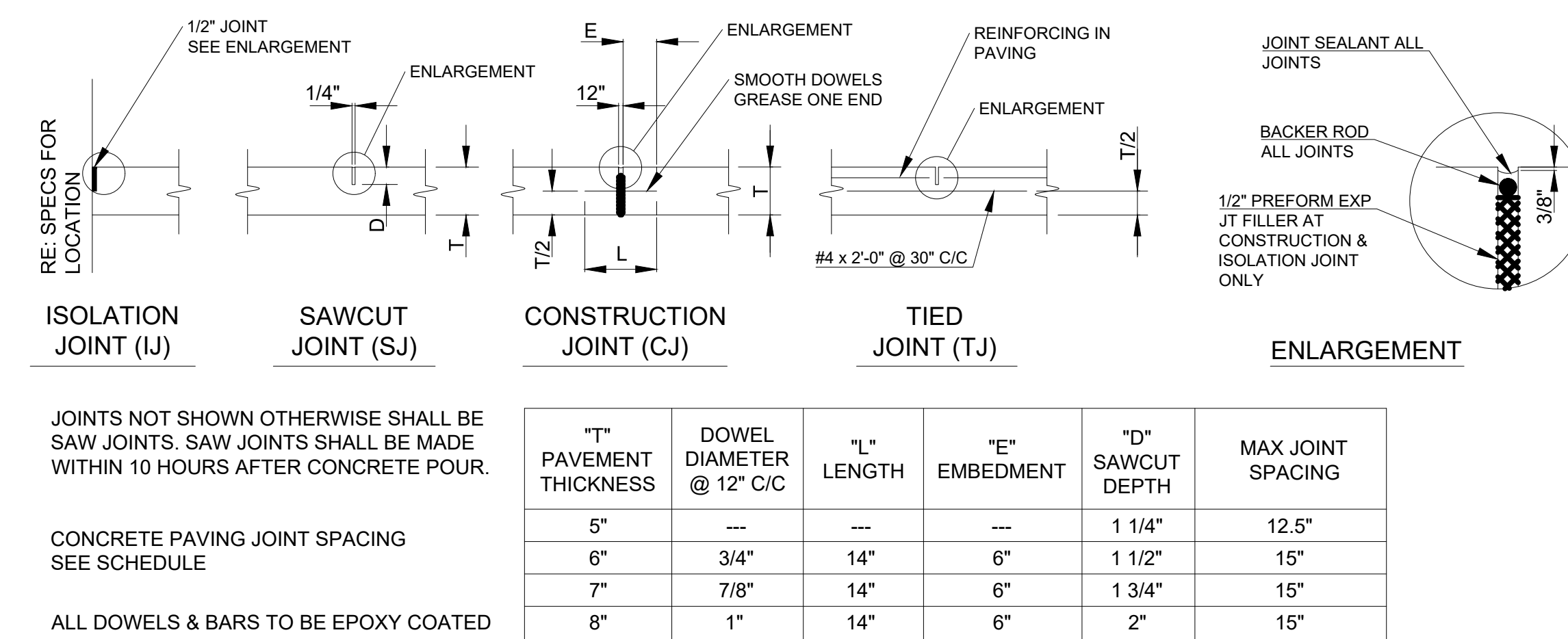
7 PAVEMENT TRANSITION
SCALE: NTS

8 CURB AND GUTTER
SCALE: NTS

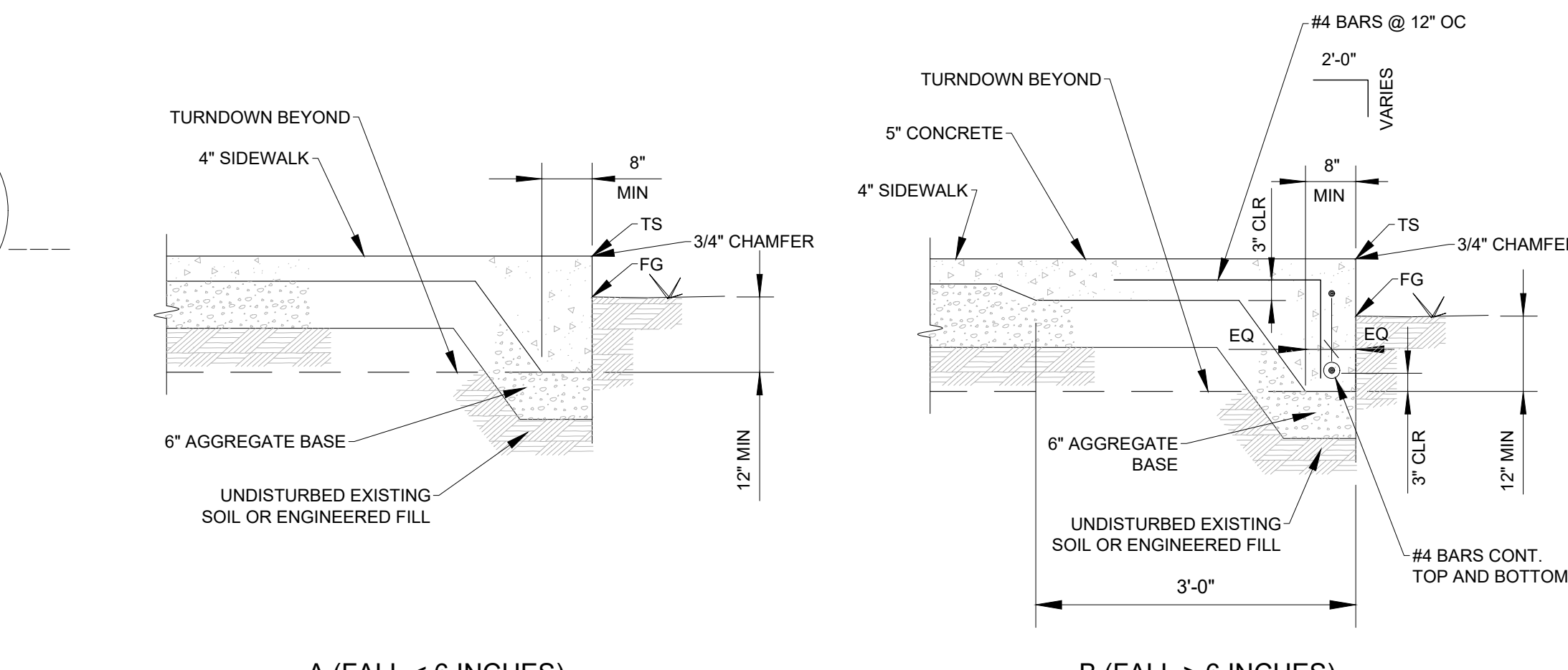
9 CURB TERMINATION
SCALE: NTS



10 PARKING BUMPER
SCALE: NTS



11 PAVING JOINT DETAIL
SCALE: NTS

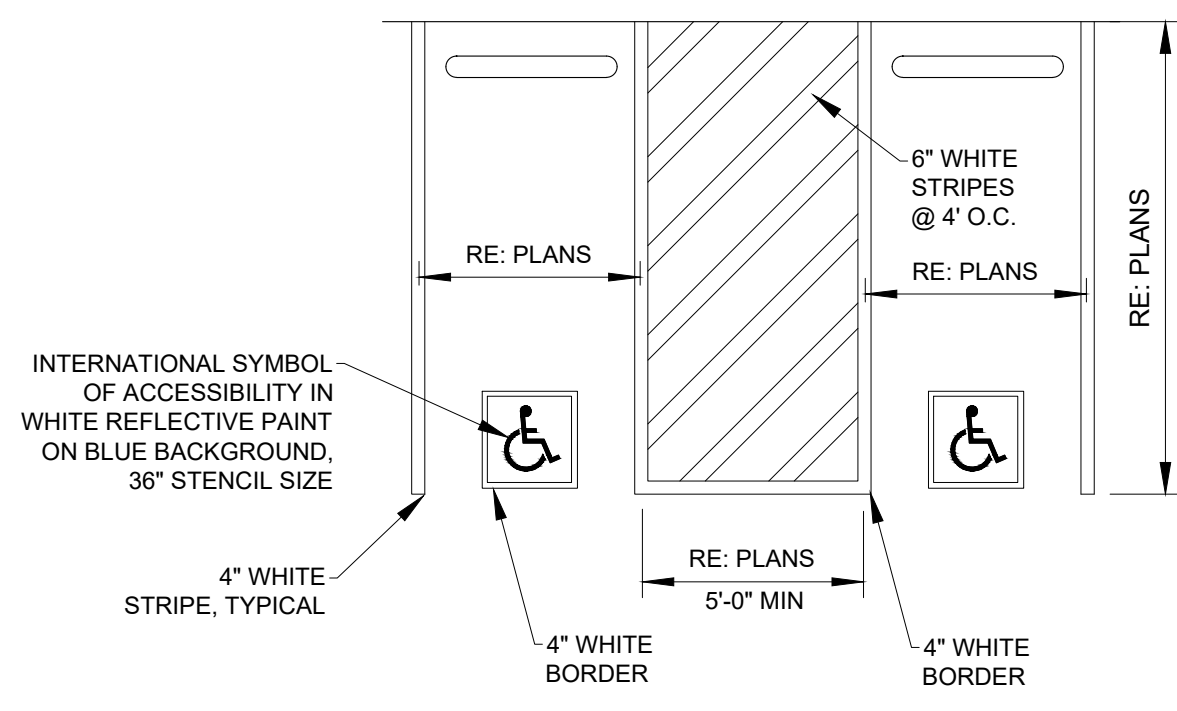


12 CONCRETE TURNDOWN
SCALE: NTS

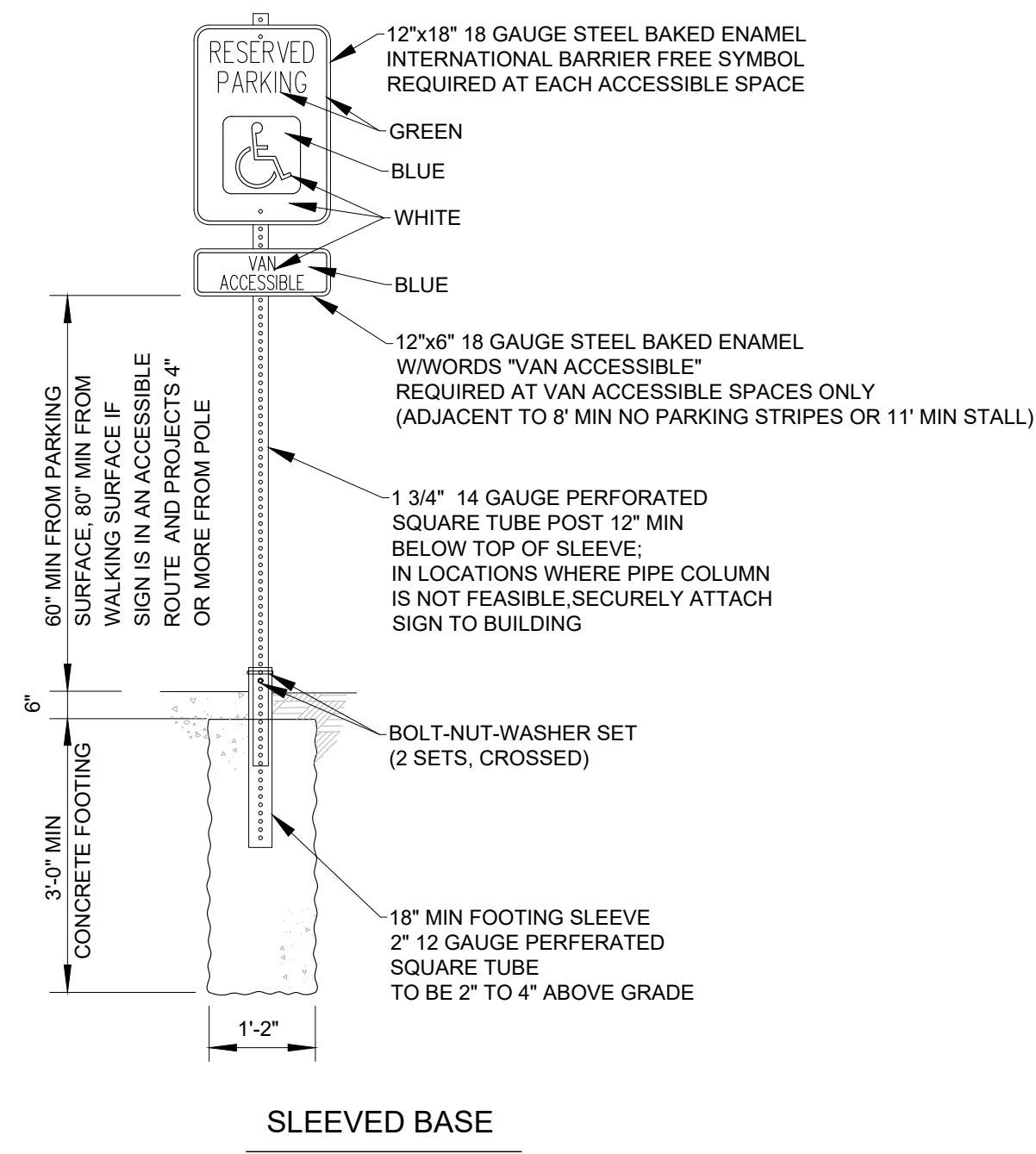
REFER TO SIGN, BUMPER, AND CURB RAMP DETAILS FOR ADDITIONAL INFORMATION AS APPLICABLE BASED ON THE SITE PLAN.

VAN ACCESSIBLE SPACES MUST BE -MIN 11' STALL W/ 5' AISLE OR -MIN 8' STALL W/ 5' AISLE RE: PLANS FOR SPECIFIC DIMENSIONS

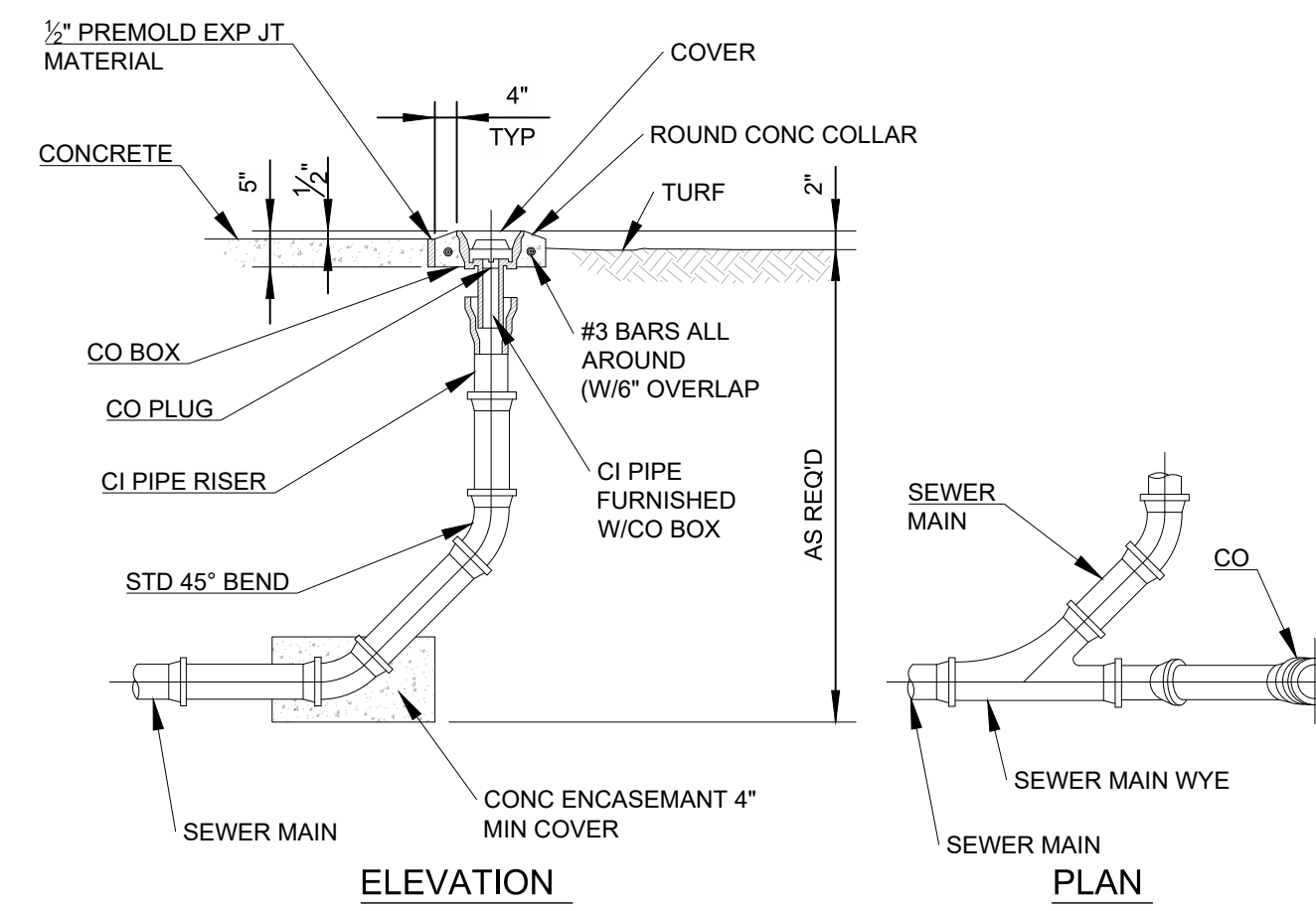
VAN SPACES AT ANGLED PARKING MUST HAVE THE ACCESS AISLE ON THE PASSENGER SIDE OF THE VEHICLE AND MEET THE WIDTH REQUIREMENTS FOR A VAN SPACE.



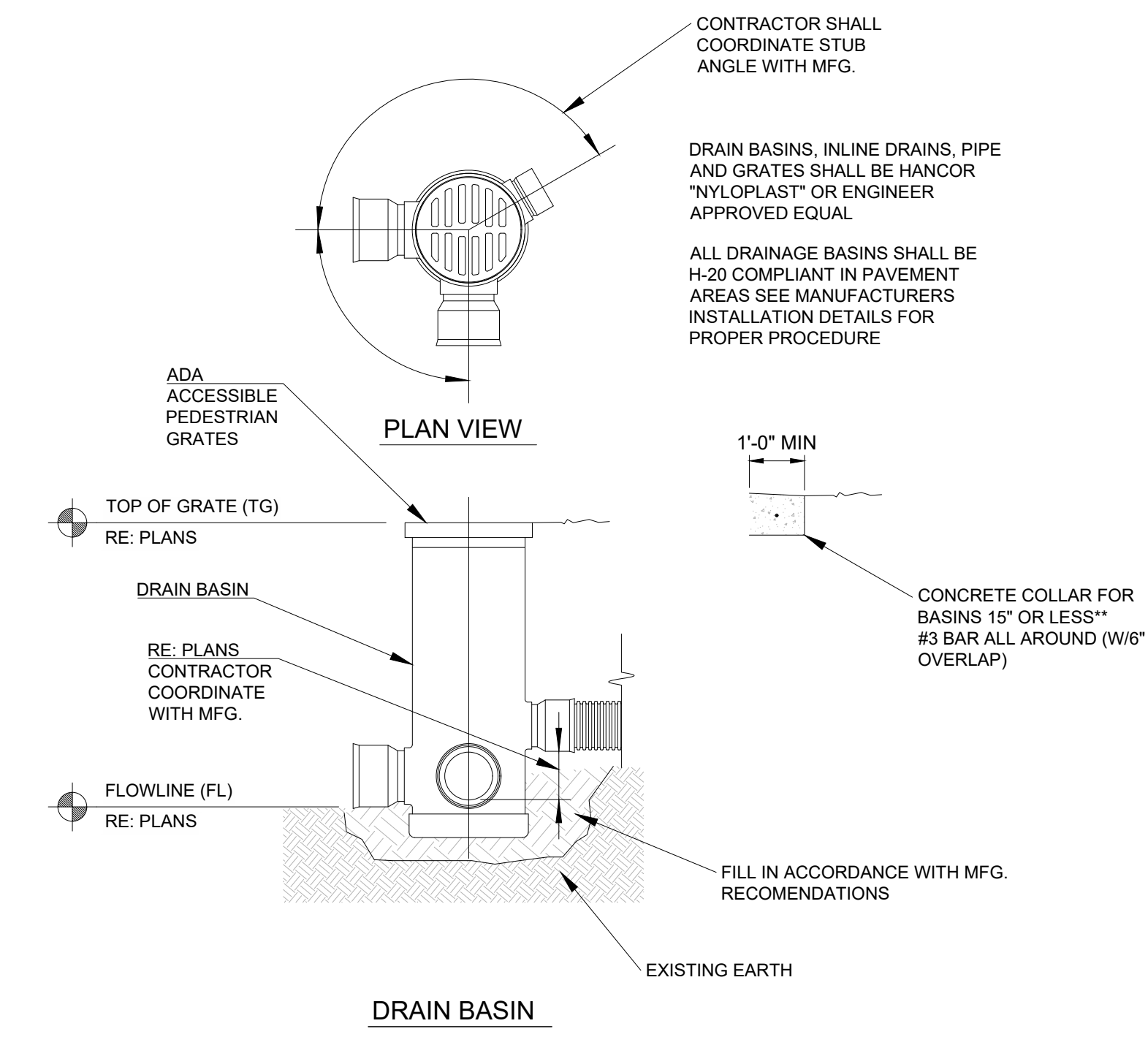
1 ACCESSIBLE STRIPING
SCALE: NTS



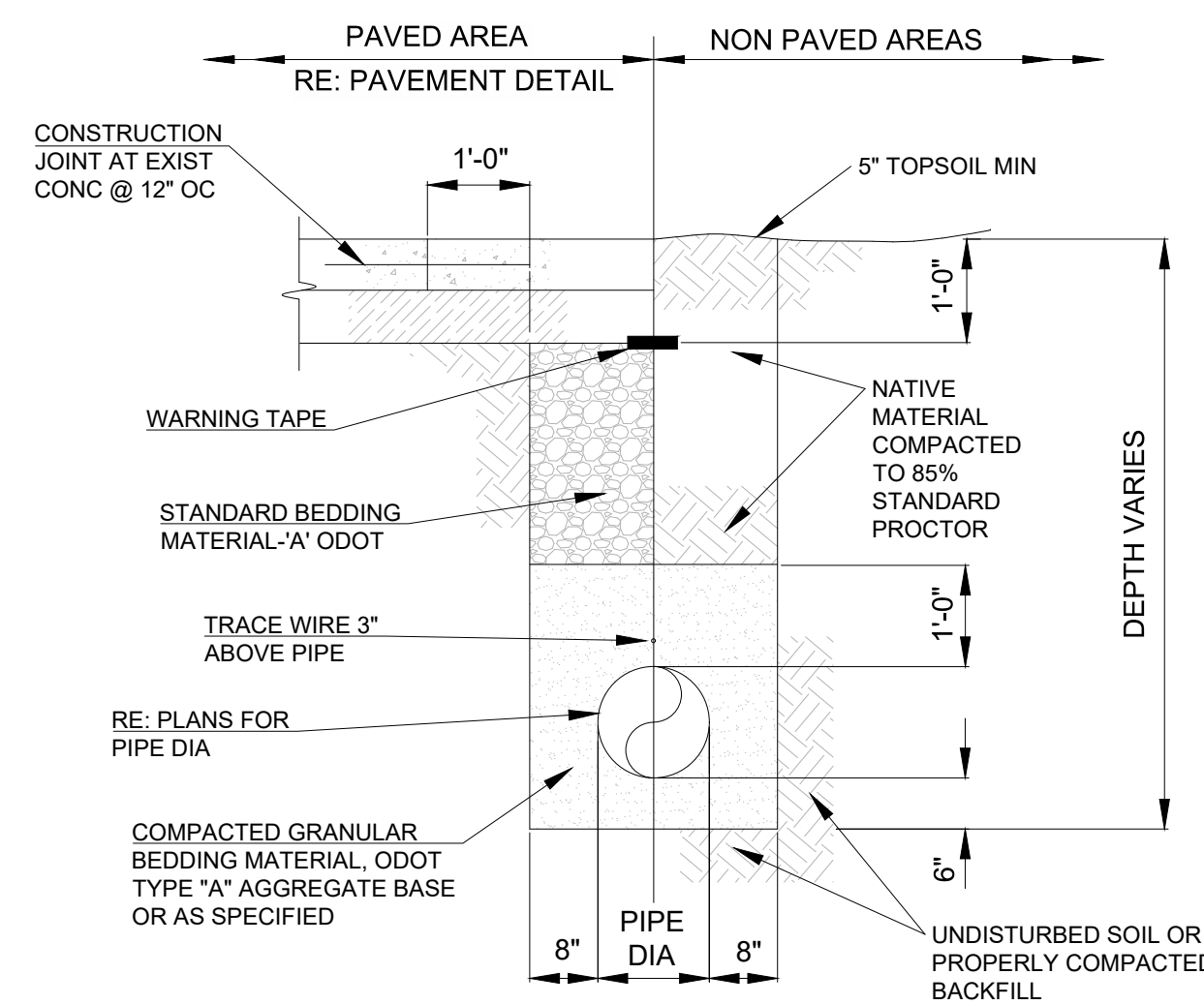
2 ACCESSIBLE SIGNAGE
SCALE: NTS



3 CLEANOUT
SCALE: NTS



4 INTEGRATED DRAIN BASIN SYSTEM
SCALE: NTS

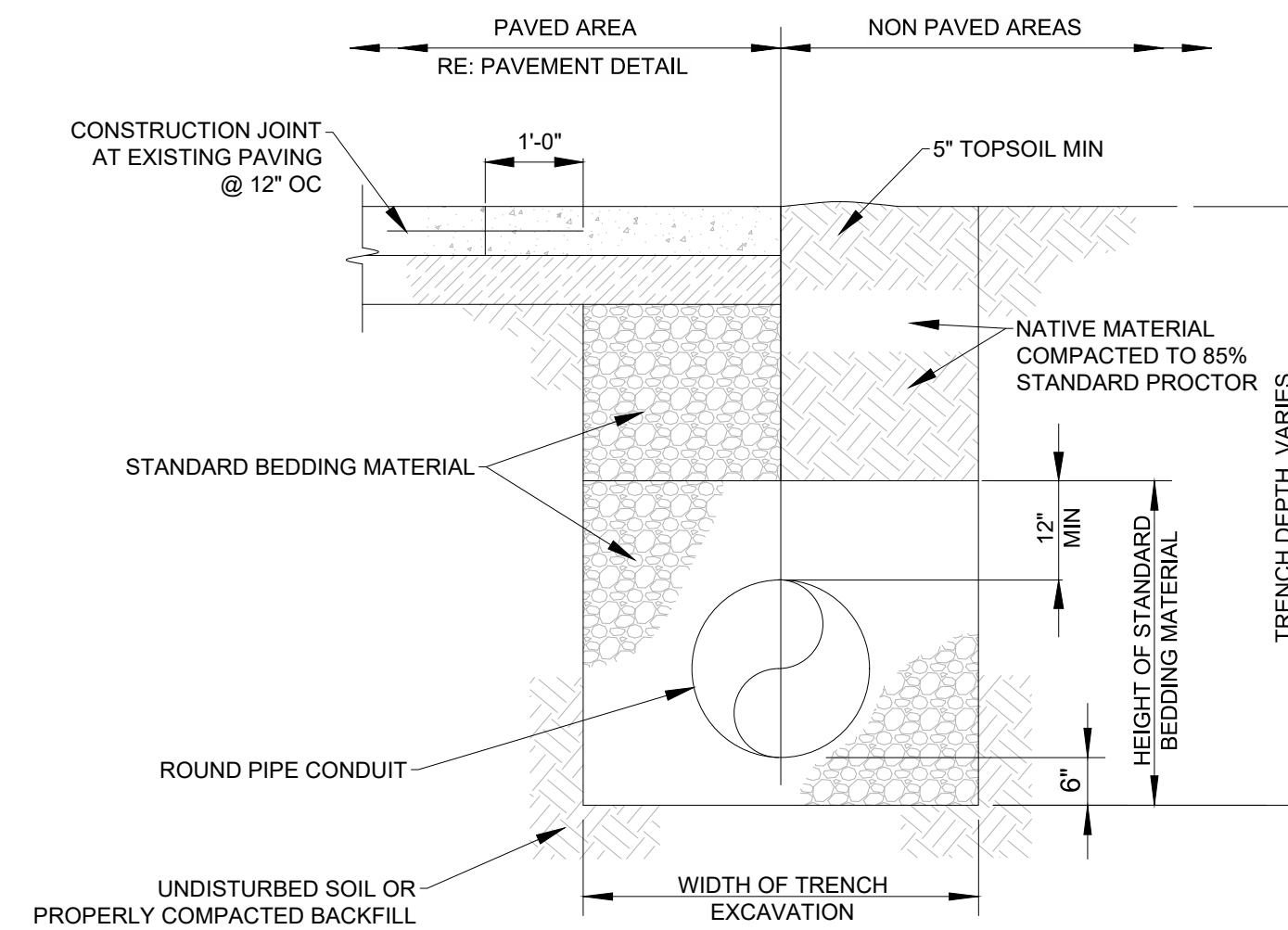


5 PIPE TRENCH-ALL PIPES EXCEPT STORM SEWER
SCALE: NTS

TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

TRACE WIRE NOTE:
INSTALL TRACE WIRE ON VALVES AND FIRE HYDRANTS

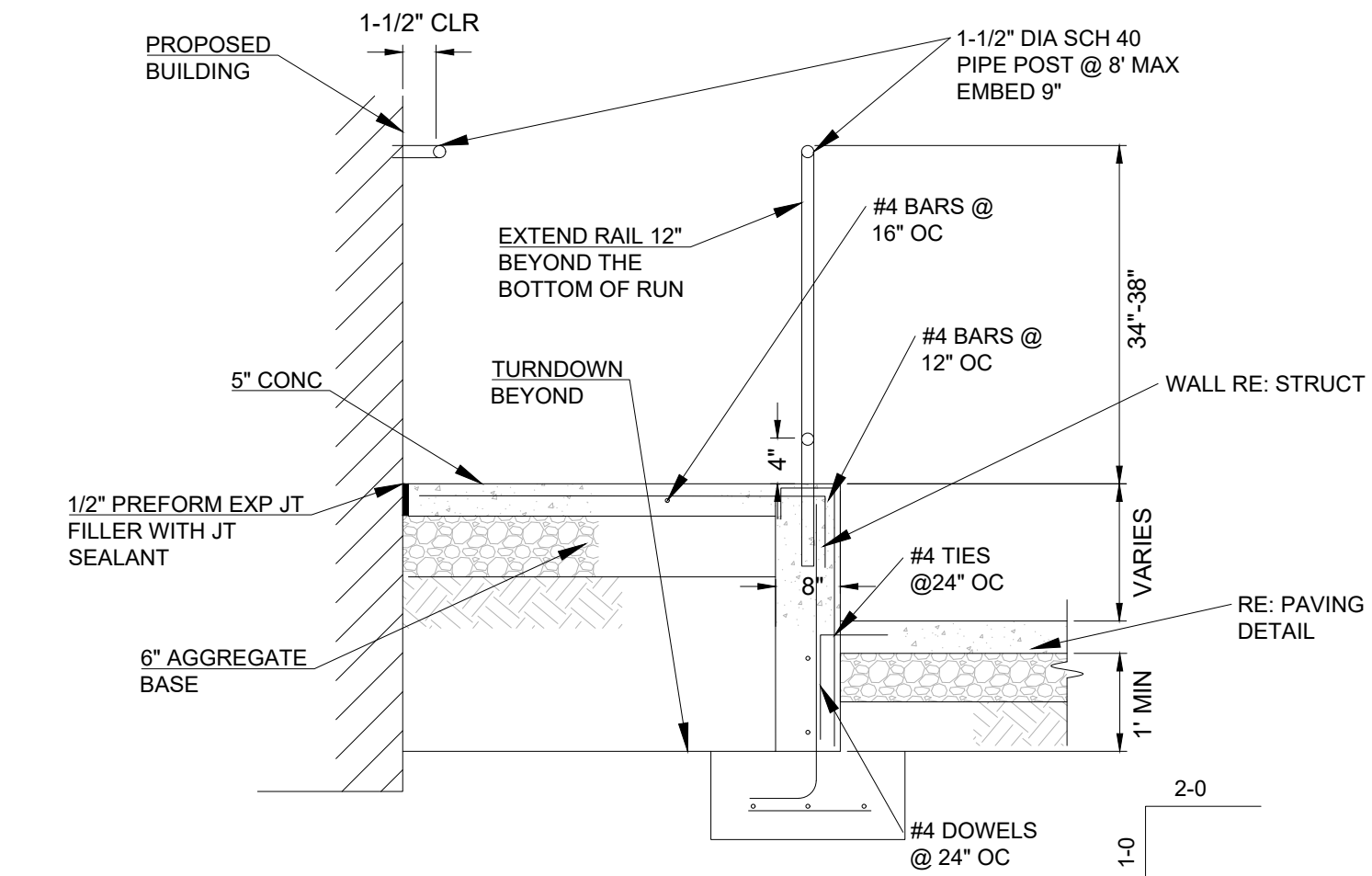


6 STANDARD PIPE BEDDING DETAIL FOR STORM SEWER
SCALE: NTS

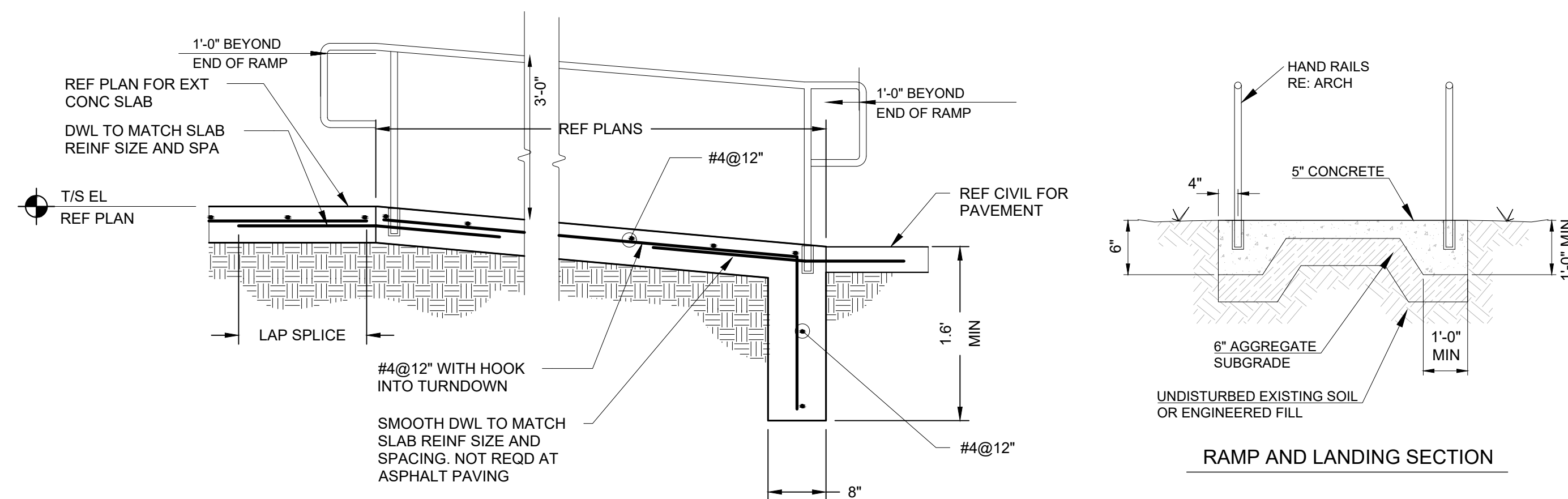
TRENCH NOTE:
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BEDDING NOTE:
STANDARD BEDDING MUST BE ODOT TYPE "A" AGGREGATE BASE. UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

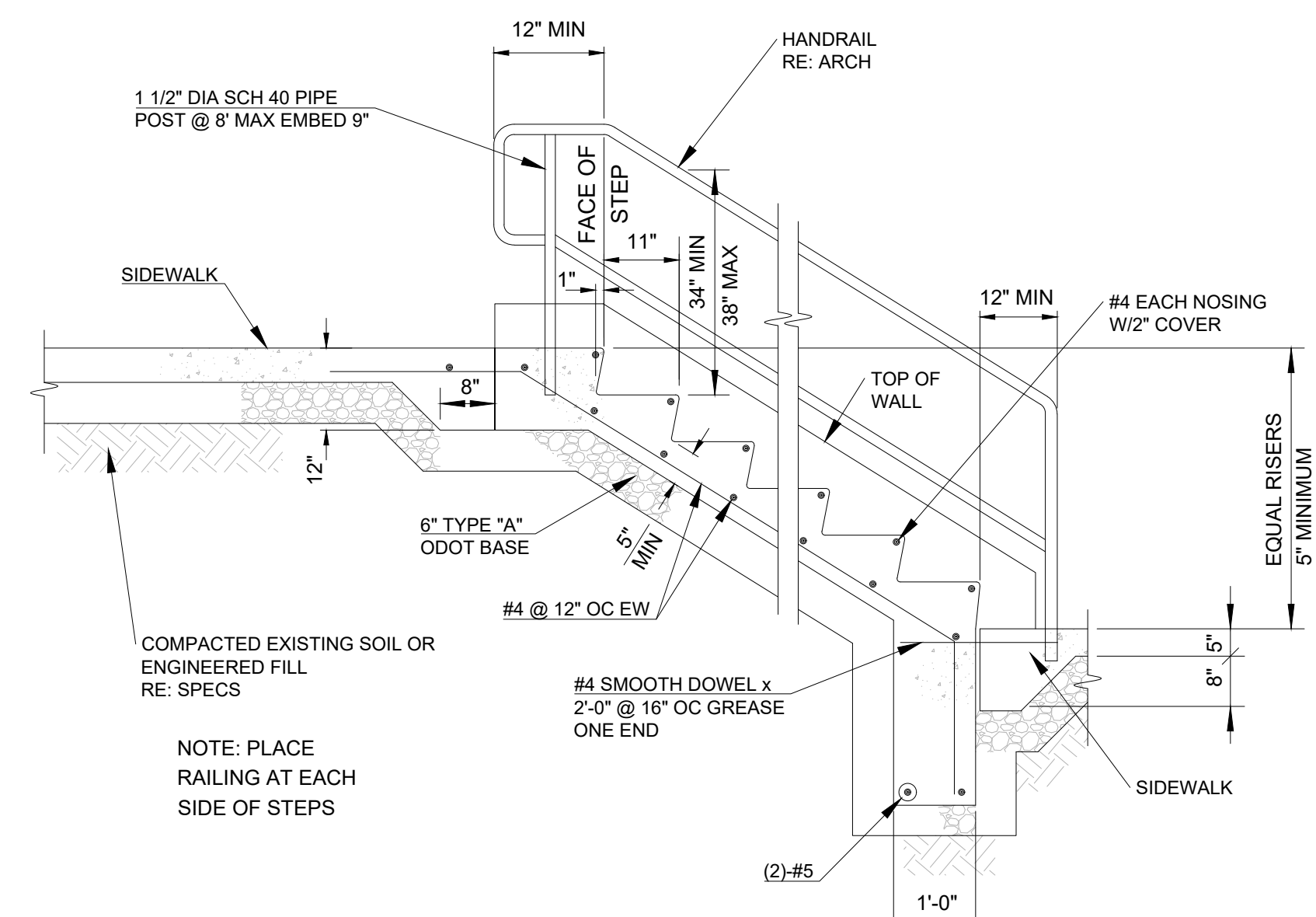
PIPE SIZE, IN.	TRENCH WIDTH, FT.
ID < 24"	OD + 2'
24" > ID < 36"	OD + 2.5'
36" > ID < 60"	OD + 3.5'
ID > 60"	OD + 4'



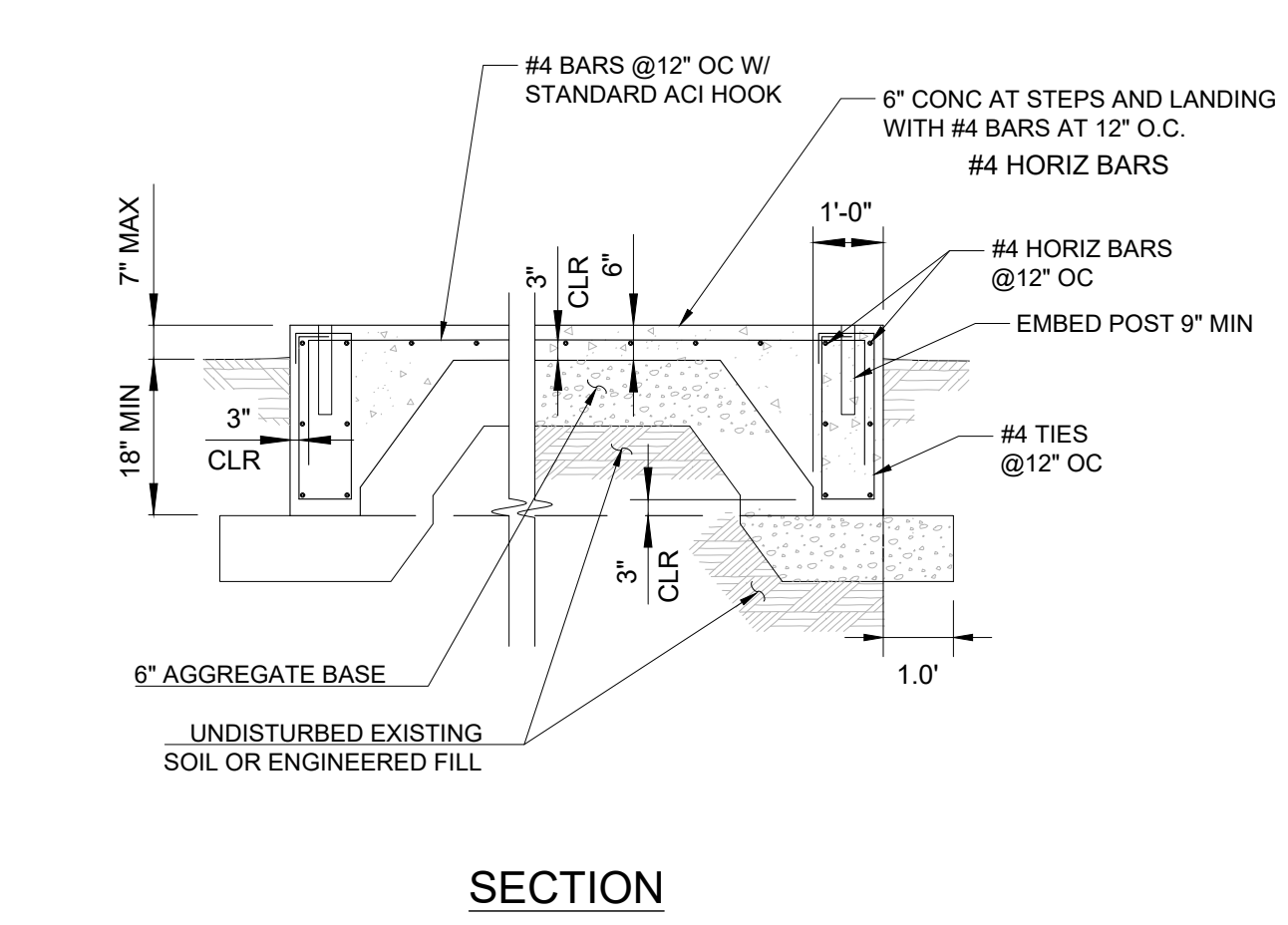
7 RAMP DETAIL WITH HANDRAIL
SCALE: NTS



8 RAMP DETAIL
SCALE: NTS

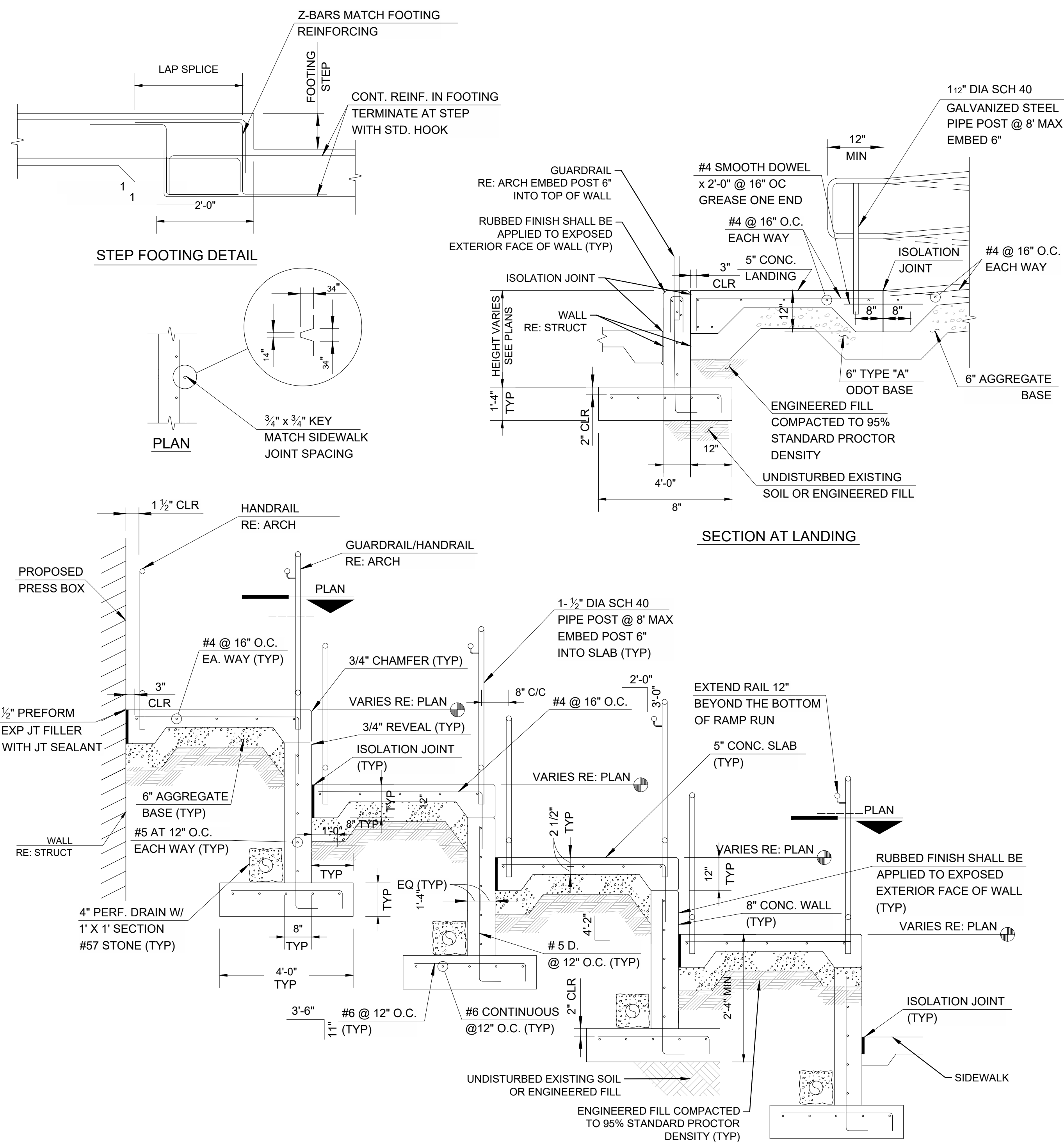


9 CONC STAIRS W/RAIL
SCALE: NTS



SECTION

SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
17091 SOUTH MUSKOGEE AVENUE, TAHEQUAH, OKLAHOMA 74464
C801
DETAILS



1 RAMP DETAIL WITH HANDRAIL
SCALE: NTS



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123 north martin luther king jr. blvd.
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oklahoma col1460
exp: 6-30-25

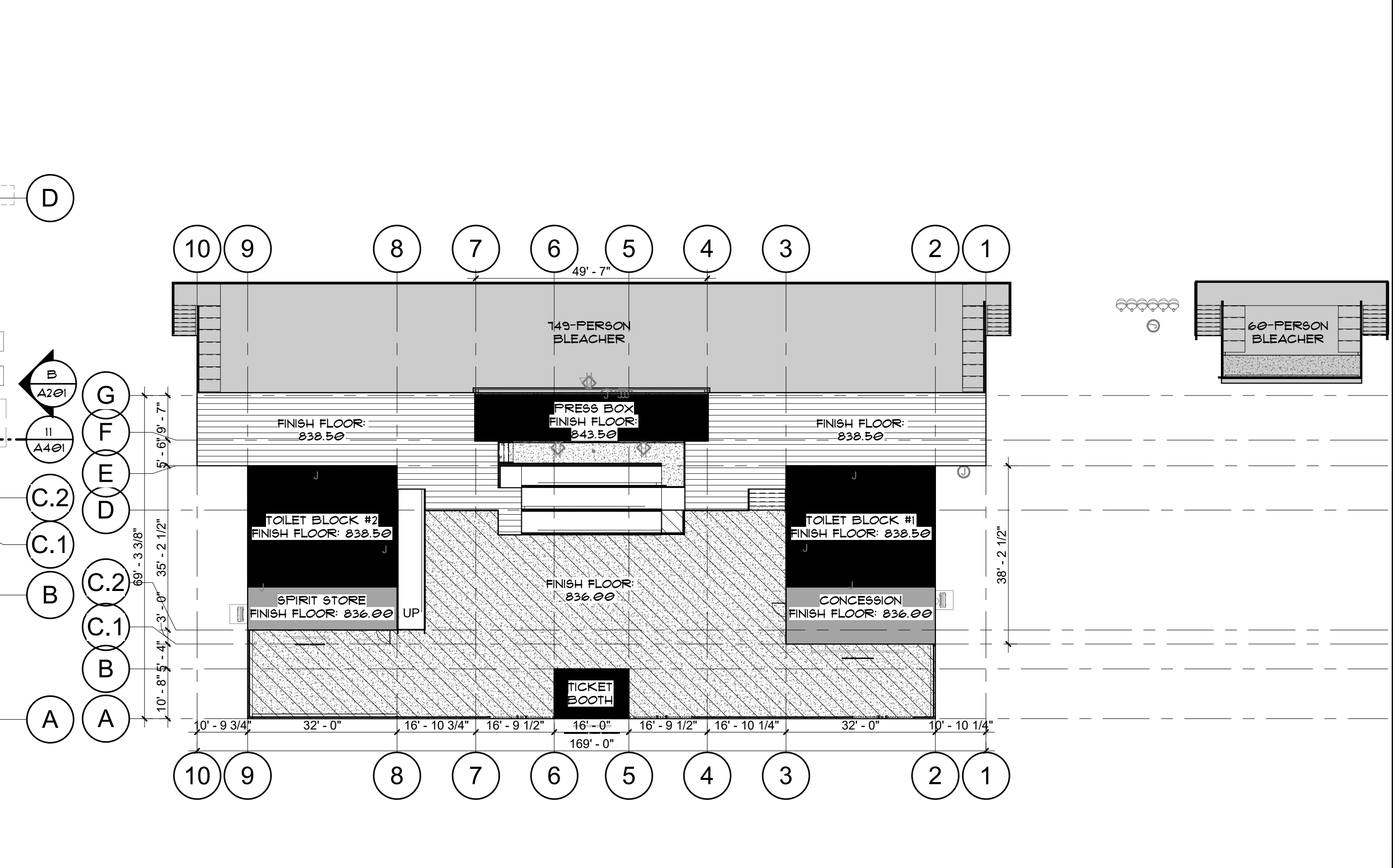
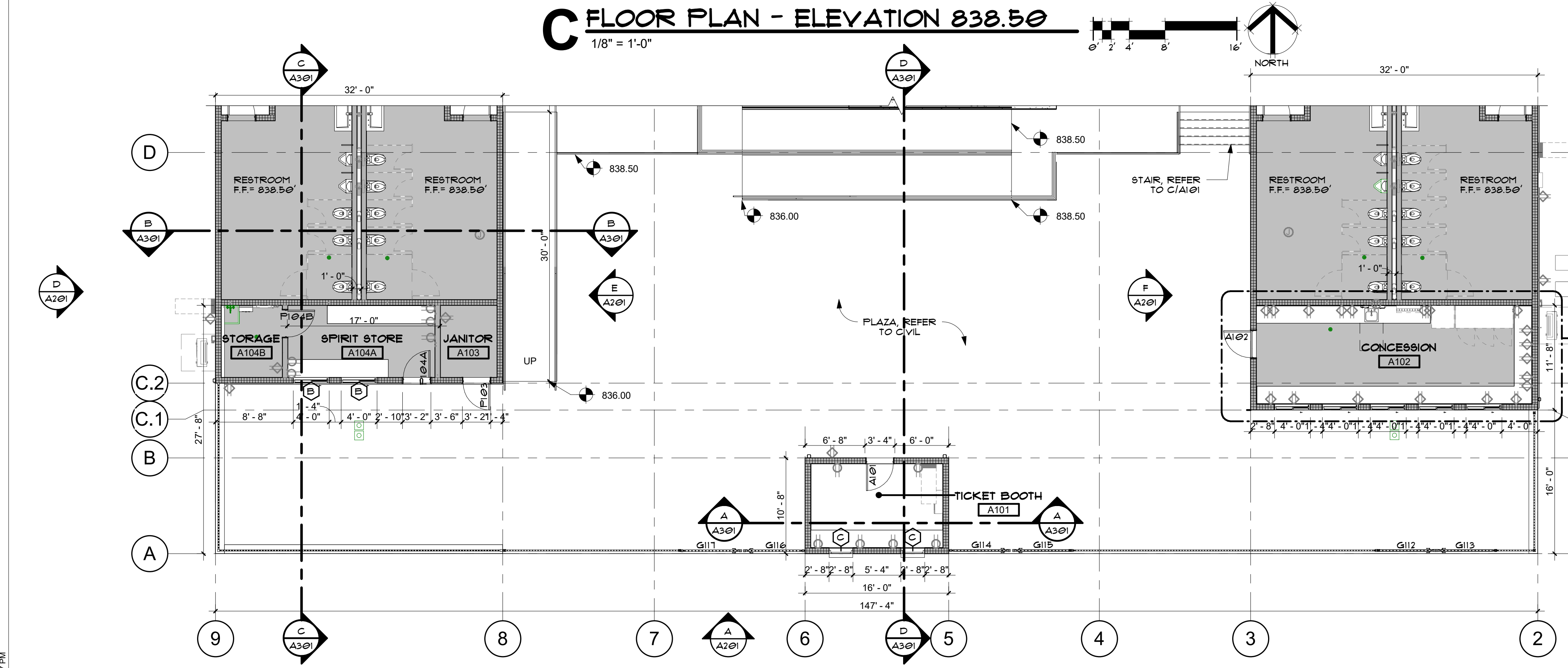
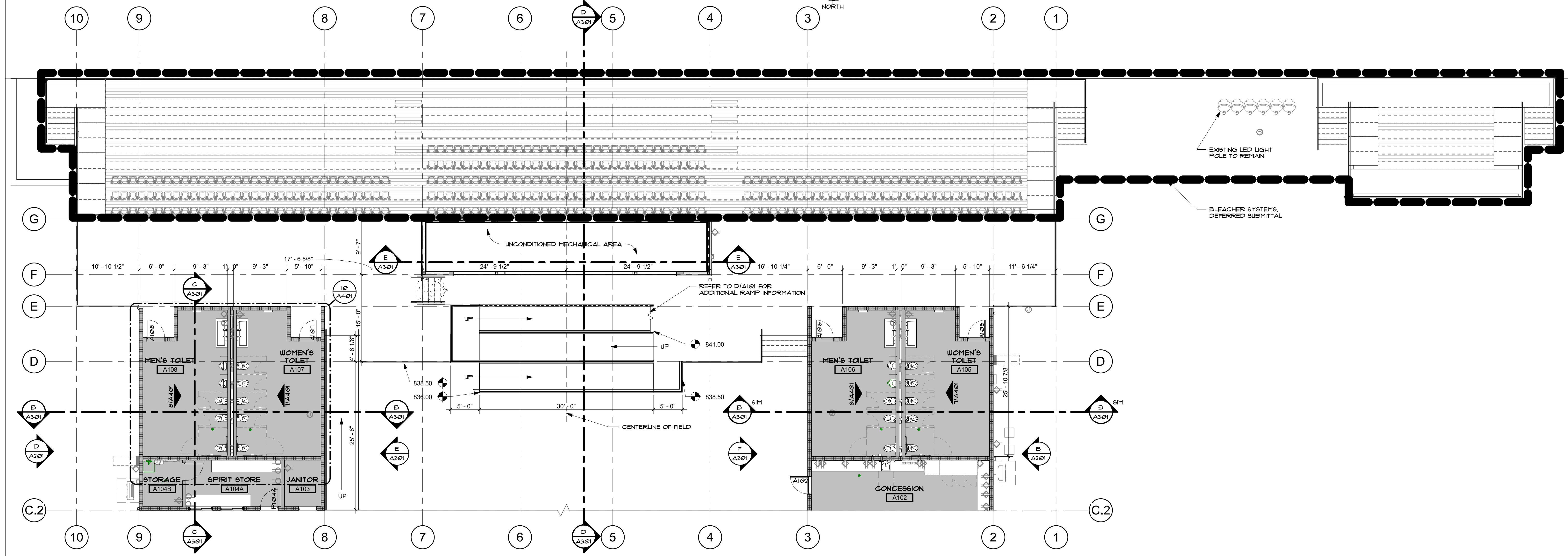
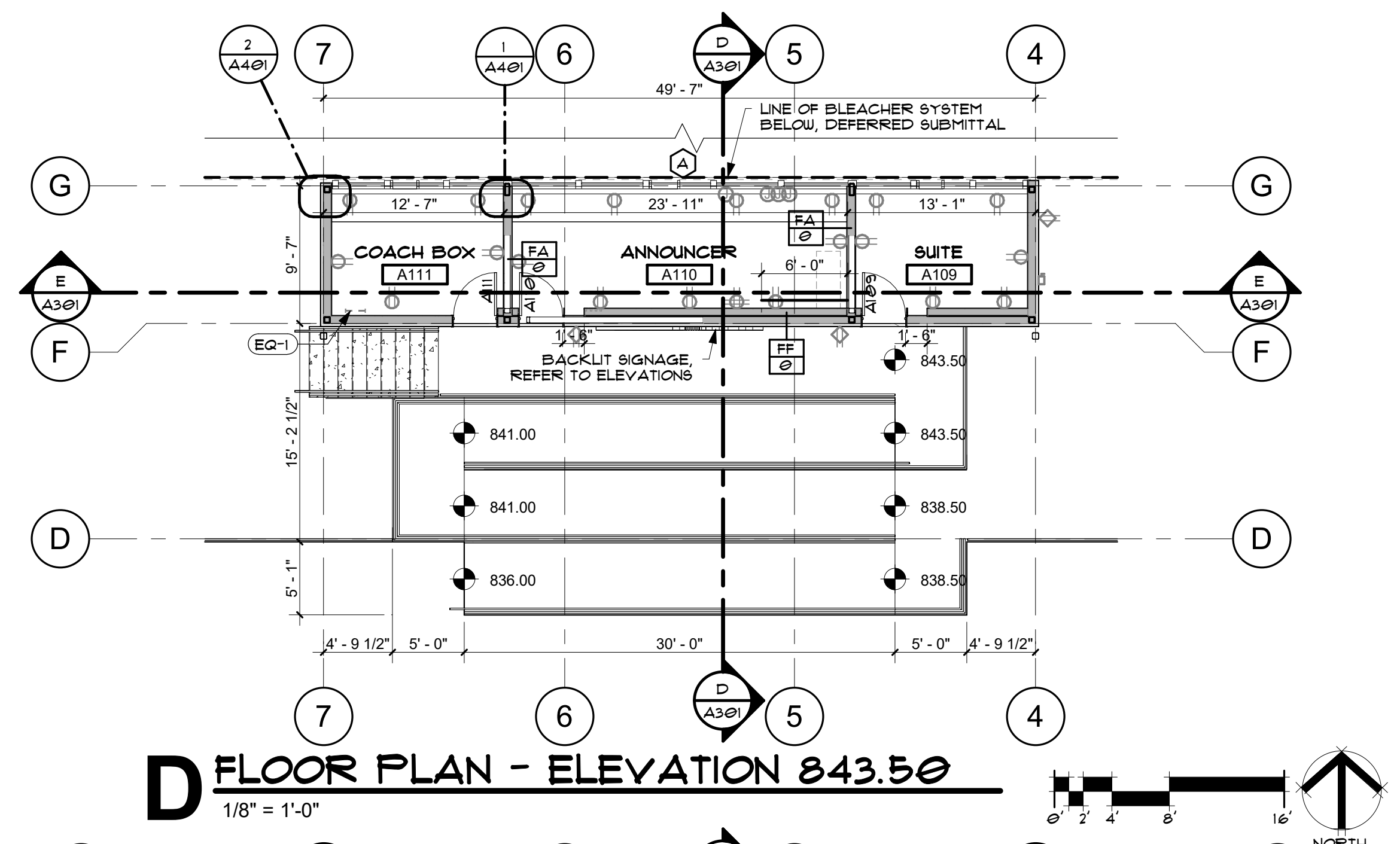
SEQUOYAH HIGH SCHOOL FOOTBALL STADIUM BLEACHERS
17091 SOUTH MUSKOGEE AVENUE, TAHEQUAH, OKLAHOMA 74464
C802
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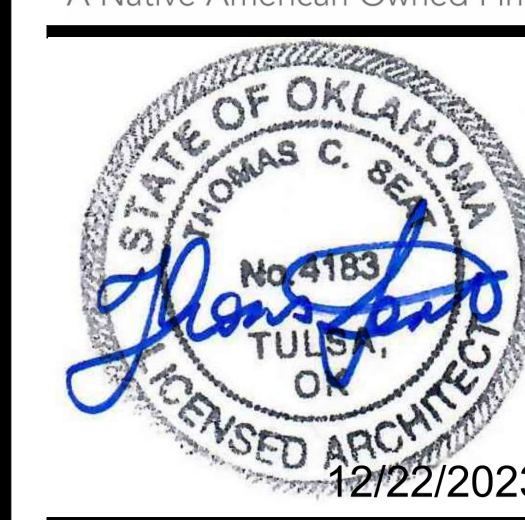
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C802



10/20/24 ROBERT FPM



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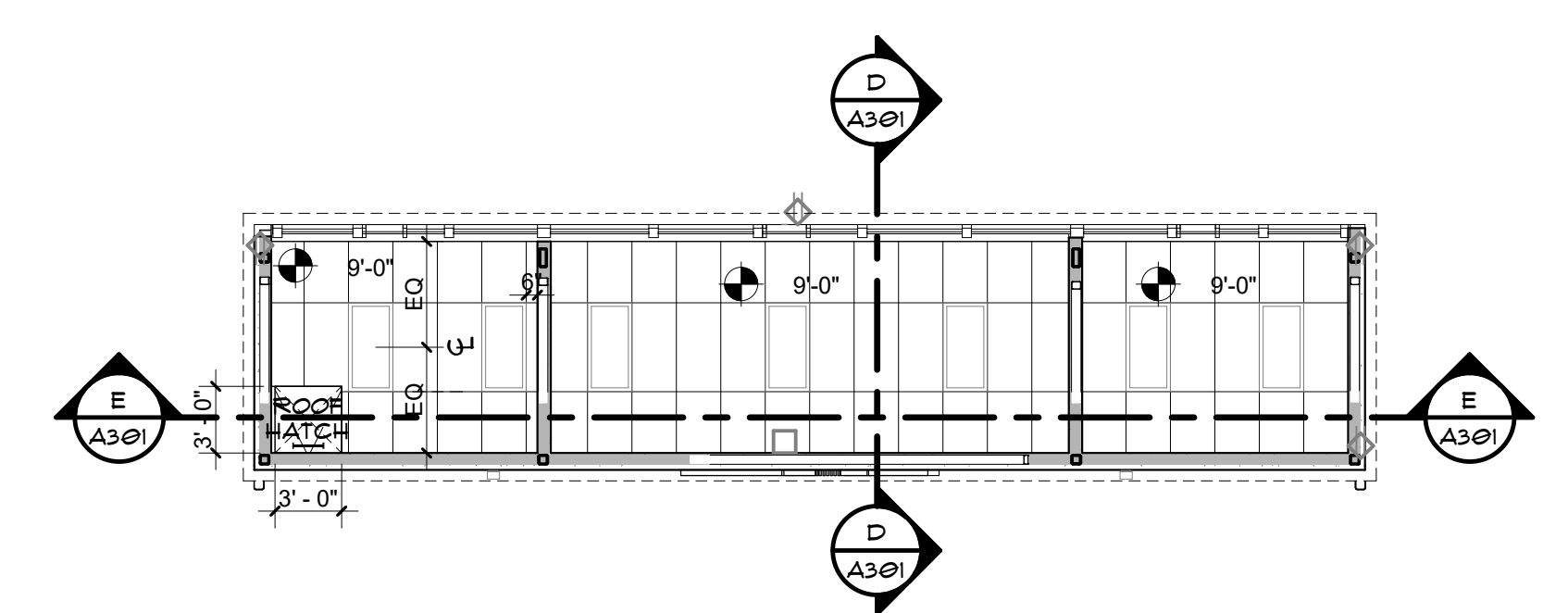


REFLECTED CEILING PLAN LEGEND

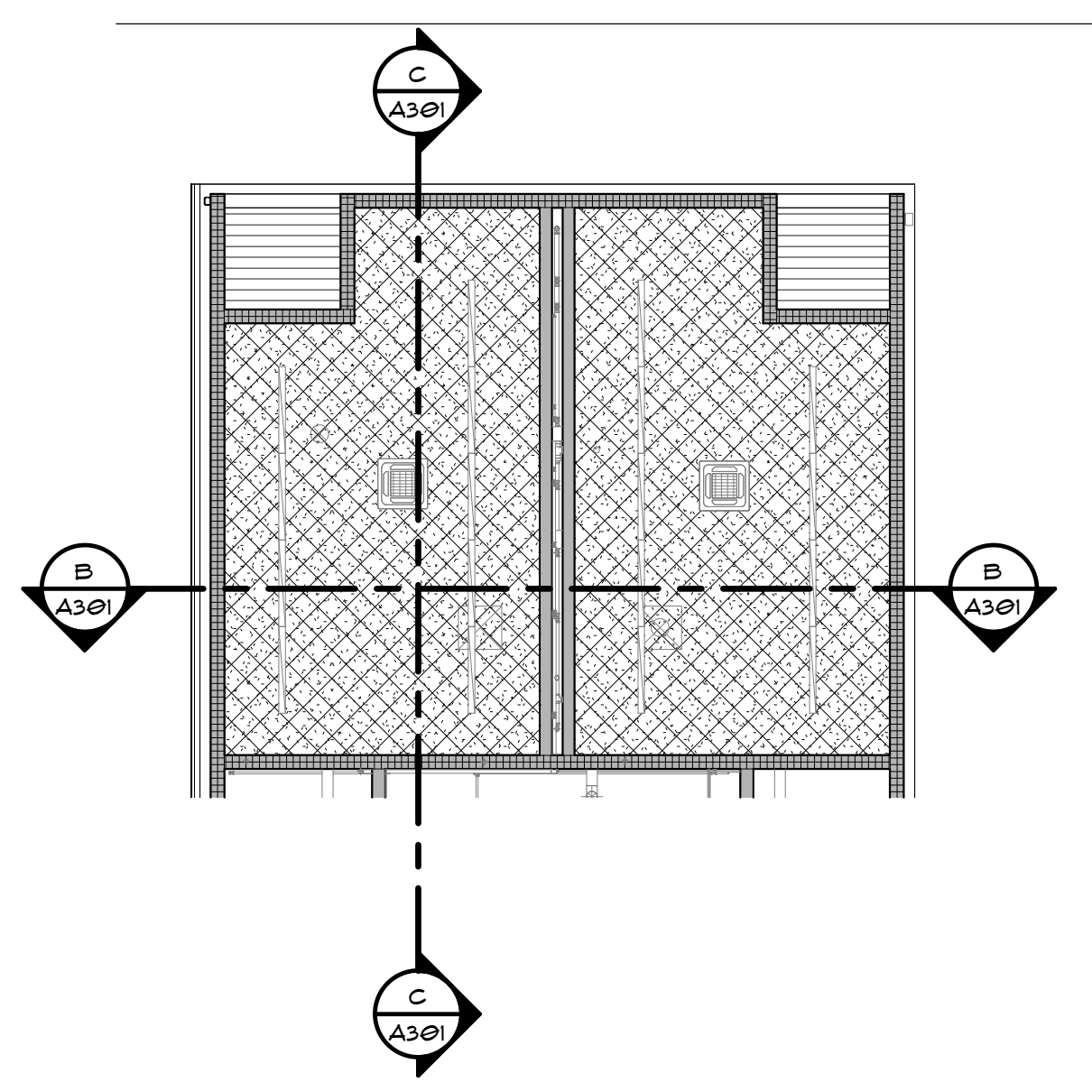
	2x4 LAY IN LENS		10'-0" AFF CEILING HEIGHT
	EMERGENCY 2x4 LAY IN LENS		EXIT SIGN
	SURFACE MOUNTED STRIP LIGHT		ALIGN ALIGN FINISHED SURFACES
	2x4 ACOUSTIC CEILING TILE (ACT)		OPEN TO STRUCTURE
	2x4 MOISTURE RESISTANT LAY IN CEILING TILE WITH HOLD DOWN CLIPS (ACT)		
	MOISTURE RESISTANT GYPSUM BOARD		
	VENTED METAL SOFFIT PANEL		

NOTE: REFER TO STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

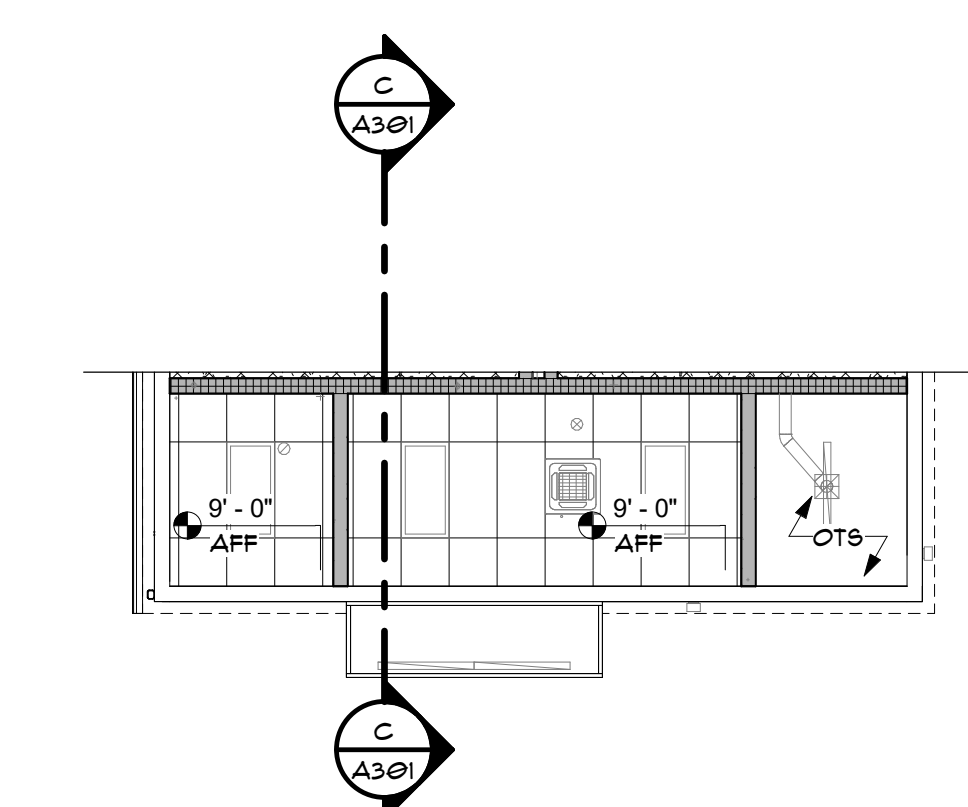
- REFLECTED CEILING PLAN NOTES**
- ALL CEILING SHALL BE 5' - 0" AFF, UNLESS NOTED OTHERWISE.
 - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
 - IN THE CASE OF MINOR DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
 - LIGHTS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, DIFFUSERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
 - CENTER, ALIGN AND / OR LOCATE LIGHT FIXTURES, MECHANICAL GRILLES, LIFE SAFETY DEVICES, OCCUPANCY SENSORS, SECURITY AND DATA FIXTURES AND OTHER MISCELLANEOUS COMPONENTS IN A UNIFORM AND ORDERLY FASHION, UNLESS ALTERNATE ARRANGEMENT IS SPECIFICALLY DIMENSIONED AND NOTED. INSTALL TRUE AND SQUARE.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE FIT OF ALL WORK AND TO PROVIDE A UNIFORM AND ORDERLY PLACEMENT AND APPEARANCE, WHETHER EXPOSED TO VIEW OR CONCEALED BY FINISHES.
 - CENTER EXIT SIGNS ABOVE DOORS, UNLESS ALTERNATE ARRANGEMENT IS SPECIFICALLY DIMENSIONED AND NOTED.
 - CENTER, ALIGN AND LOCATE ACCESS PANELS IN ACCORDANCE WITH DESIGN CRITERIA FOR OTHER DEVICES. SUBMIT SHOP DRAWINGS THAT INDICATE EXACT SIZE, TYPE AND LOCATION OF CEILING AND WALL ACCESS PANELS FOR REVIEW AND ACCEPTANCE BEFORE INSTALLATION. ALL ACCESS PANELS SHALL BE PAINTED, UNLESS NOTED OTHERWISE AND EXTERIOR GRADE WHERE REQUIRED.
 - ALIGN ALL SOFFITS AND / OR BULKHEADS WITH ADJACENT WALLS, UNLESS NOTED OTHERWISE.
 - PROVIDE SUFFICIENT SUPPORT AND GRID SYSTEMS TO SUPPORT ALL CEILING MOUNTED DEVICES. ALL FIXTURES SHALL BE SUPPORTED AT EACH CORNER.
 - ALL OUTLETS, RECEPTACLES, DEVICES AND COVER PLATES SHALL BE INSTALLED PLUMB AND LEVEL. CROOKED INSTALLATION IS NOT ALLOWED.
 - MISALIGNED MEP FIXTURES OF ANY TYPE OR AT ANY LOCATION EXPOSED TO VIEW ARE NOT ALLOWED. MISALIGNED FIXTURES SHALL BE ADJUSTED OR REMOVED AND REPLACED IF REQUIRED FOR PROPER ALIGNMENT AT NO ADDITIONAL COST.
 - ALL RECESSED LIGHTING TO BE SEALED AIR-TIGHT, ICC-RATED AND SEALED TO GYPSUM BOARD OR FINISH MATERIAL AS REQUIRED BY THE IECC (INTERNATIONAL ENERGY CONSERVATION CODE). ALL MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES SHALL BE IECC COMPLIANT.
 - CONTRACTOR TO COORDINATE ALL OUTLETS, SWITCHES AND POWER FEED WITH CASEWORK, PARTITIONS, FINISHES, FIXTURES AND EQUIPMENT.
 - PROVIDE PRE-FINISHED GRAY ELECTRICAL DEVICES AND STAINLESS STEEL COVER PLATES AT ALL WALLS IN PROJECT. AT ALL OTHER LOCATIONS, SUCH AS CASEWORK, RECEPTACLES AND COVER PLATES SHALL MATCH ADJACENT FINISHES, AS DETERMINED AND SELECTED BY THE ARCHITECT FROM MANUFACTURER'S FULL RANGE. FIELD PAINT WHERE REQUIRED.
 - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION FOR DIFFUSERS AND GRILLE TYPES. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULES AND ADDITIONAL INFORMATION. DESIGN INTENT FOR APPEARANCE, TYPE, ARRANGEMENT AND LOCATION IS INDICATED ON ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO ARCHITECT FOR CLARIFICATION PRIOR TO ORDERING MATERIALS OR THE START OF ROUGH-IN.
 - LIFE SAFETY DEVICE COLORS: GRAY (UNLESS RED IS SPECIFICALLY REQUIRED BY CODE)
 - A. WHITE, AT WHITE CEILING OR WHERE EXPOSED STRUCTURES.
 - B. OTHER CEILING; NOT ALLOWED; USE WALL MOUNTED.
 - C. INTERIOR / EXTERIOR WALLS; GRAY.
 - EXPOSED METAL DUCTWORK: ALL METAL DUCTWORK EXPOSED TO VIEW SHALL HAVE UNIFORM AND NEAT SEALANT AND SEAMS, CLEAN EXCESS SEALANT. PROVIDE 1/2 FOOT BY 1/2 FOOT MOCK-UP TO ILLUSTRATE ALL SEAMS AND SEALANT TYPES IN PROJECT.
 - EXPOSED STRUCTURE: WHEN NOT DIMENSIONED, BUT OCCURS ON OR ADJACENT TO EXPOSED STRUCTURE, LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER PIPING / HEADS, MECHANICAL DUCTS, PIPES, PLUMBING, DEVICES, AND ALL ASSOCIATED MOUNTING DEVICES AND FASTENERS) CENTERED WITHIN SPACE BETWEEN OR ON STRUCTURAL ELEMENTS. MATCH ORIENTATION OF STRUCTURE UNLESS A SPECIFIC ALTERNATE ARRANGEMENT IS DIMENSIONED AND NOTED. CHANGE ORIENTATION OF ITEMS, IN ACCORDANCE WITH DESIGN CRITERIA FOR PLACEMENT, TO MATCH CHANGES IN ORIENTATION OF STRUCTURE, WHERE MULTIPLE SYSTEMS NEED TO SHARE THE SAME SPACE, CENTER ONE SYSTEM AND ALIGN ADJACENT SYSTEMS IN A UNIFORM AND ORDERLY FASHION.
 - COORDINATION: ALL DEVICES REQUIRED FOR PROJECT MAY NOT BE SHOWN ON ARCHITECTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS FOR ADDITIONAL DEVICES. ALL DEVICES IN PROJECT SHALL FOLLOW DESIGN CRITERIA FOR PLACEMENT, AS INDICATED, WHETHER OR NOT SHOWN ON ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.



C PRESS BOX REFLECTED CEILING PLAN
1/8" = 1'-0"



B ELEVATION (838.50) REFLECTED CEILING PLAN
1/8" = 1'-0"



A PAVED AREA (836.00) REFLECTED CEILING PLAN
1/8" = 1'-0"

- REFLECTED CEILING PLAN DIAGRAMS**
- THE FOLLOWING DESIGN CRITERIA APPLIES UNLESS SPECIFICALLY NOTED AND DIMENSIONED OTHERWISE.
- DIMENSIONS:** WHEN COMPLETELY DIMENSIONED ON CEILING PLAN, LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY REFLECTED CEILING PLAN. SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS TAKE PRECEDENCE OVER TYPICAL LOCATIONS.
 - CENTERING:** WHEN NOT DIMENSIONED BUT SHOWN CENTERED, LOCATE ITEMS CENTERED IN SPACE OR SPACE CREATED BETWEEN TWO ELEMENTS WHEN NOT DIMENSIONED, BUT SHOWN CENTERED.
 - SYMMETRY:** LOCATE FEATURES SYMMETRICALLY. LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE.
 - FIXTURES IN ACOUSTICAL CEILING TILE:** WHEN NOT DIMENSIONED BUT OCCURS ON ACT / SQUARE GRID-TYPE CEILING, LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER DEVICES) AT CENTER OF PANEL ON ACT / SQUARE GRID-TYPE CEILINGS.
 - ACOUSTICAL CEILING TILE PLACEMENT:** ACT / SQUARE AND / OR RECTANGULAR GRID-TYPE CEILINGS TO BE EVENLY SPACED. CUT TO FIT IRREGULAR GRID AND PERIMETER EDGE TRIM. MAKE FIELD CUT EDGES OF SAME PROFILE AS FACTORY EDGES. DOUBLE CUT AND FIELD PAINT EXPOSED REVEAL EDGES.
 - CONDUIT:** CONCEAL ALL WIRE IN CONDUIT WHERE EXPOSED TO VIEW.

20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

A121
REFLECTED CEILING PLAN - FIRST FLOOR

blue river
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A Native American Owned Firm

BLUE RIVER PROJECT NUMBER:
20210121.35.05

ISSUE DATE:
12/22/2023

ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES:
NO. DESCRIPTION DATE




SHEET NAME:
REFLECTED CEILING PLAN - FIRST FLOOR

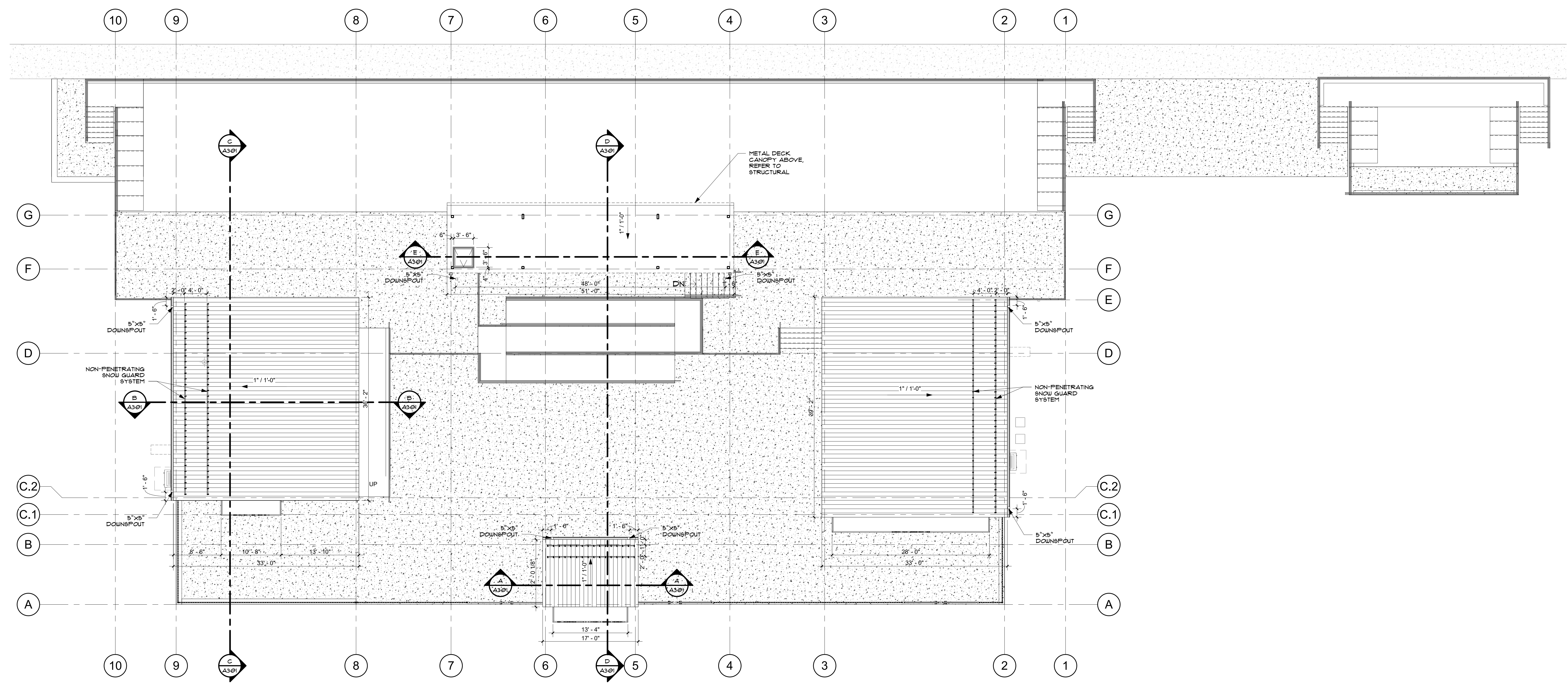
SHEET NUMBER:
A121

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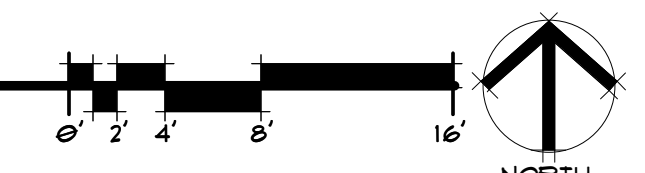
- ROOF PLAN GENERAL NOTES**
1. ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.
 2. PROVIDE CURB HEIGHTS FOR EQUIPMENT AND ROOF HATCHES AS REQUIRED TO MAINTAIN 8 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE, UNLESS MORE STRINGENT CONDITIONS ARE INDICATED OR REQUIRED BY ROOF OR EQUIPMENT MANUFACTURER.
 3. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 4. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES.
 5. PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY, FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. FITCH PANS ARE NOT ALLOWED.
 6. THE SLOPES INDICATED ON THE ROOF PLAN REPRESENTS THE FINAL SLOPE OF THE ROOF. PROVIDE TAPERED INSULATION AS REQUIRED TO ACHIEVE THE FINAL SLOPE. FIELD VERIFY THE EXISTING SLOPE OF THE ROOF STRUCTURE.

ROOF LEGEND

	MEMBRANE BUILT-UP ROOFING 5" MINIMUM POLYISO INSULATION ON METAL DECK, MINIMUM R30
	STANDING SEAM METAL ROOF
	ROOF ACCESS HATCH



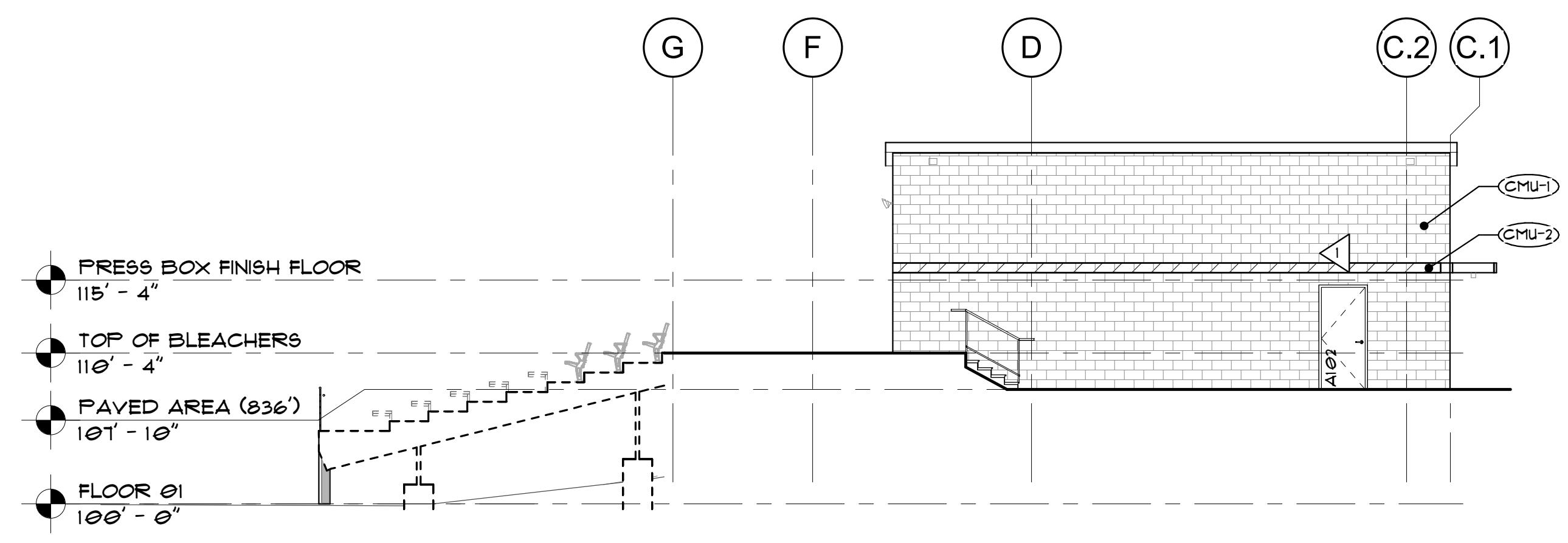
A OVERALL ROOF PLAN
1/8" = 1'-0"



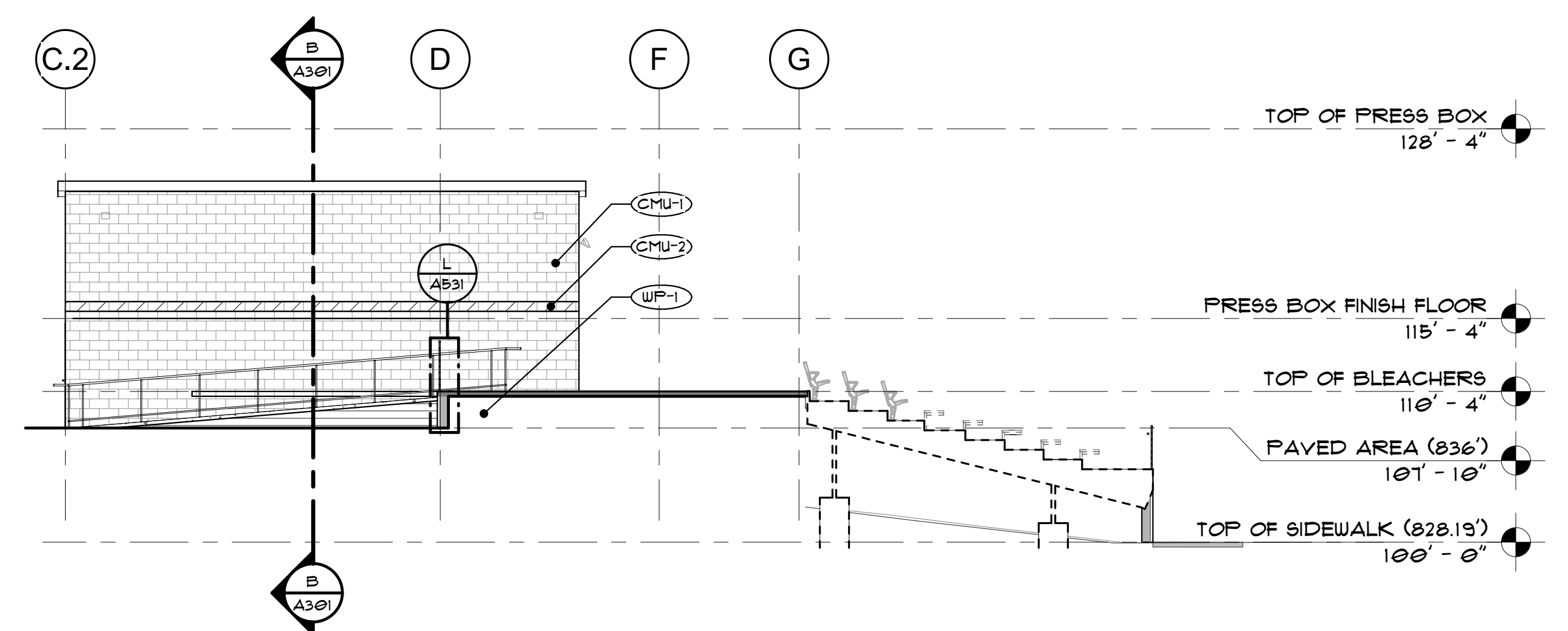
20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464
A141
ROOF PLAN

- EXTERIOR ELEVATION GENERAL NOTES**
1. REFER TO SHEET A621 FOR WINDOW TYPES.
 2. REFER TO SHEET A611 FOR DOOR SCHEDULE.
 3. REFER TO A300 SERIES SHEETS FOR EXTERIOR WALL SECTIONS.
 4. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE.
 5. MASONRY DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
 6. REFER TO CIVIL DRAWINGS FOR FINISH GRADE ELEVATIONS.
 7. DETAILS ON EXTERIOR ELEVATIONS ARE GENERAL IN NATURE AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO WALL DETAILS AND SECTIONS FOR DETAILED INFORMATION CONCERNING EXTERIOR CONSTRUCTION.
 8. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION AT EXTERIOR LIGHTING.
 9. PROVIDE CONTROL JOINTS PER MANUFACTURER'S SPECIFICATIONS.
 10. PROVIDE WATERTIGHT SEAL AT ALL SIGNAGE ATTACHMENT AND POWER FEED LOCATIONS.

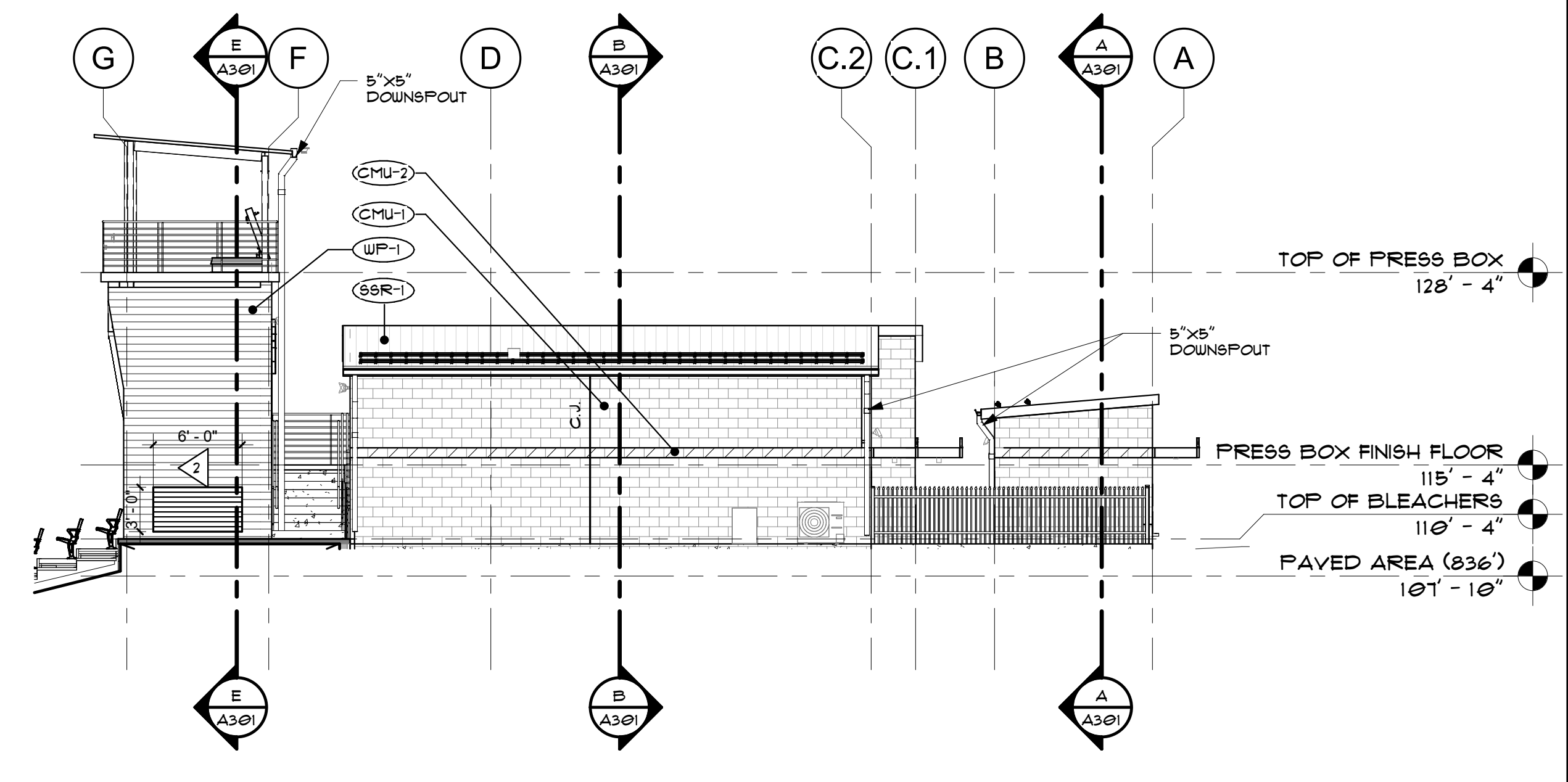
- EXTERIOR MATERIAL LEGEND**
- COMPOSITE WALL PANELS - WP**
- (WP-1) PRE-ENGINEERED EXTERIOR METAL WALL PANEL
- CONCRETE MASONRY UNIT WALL - CMU**
- (CMU-1) SPLIT-FACED CMU WALL
 - (CMU-2) SPLIT-FACED CMU WALL - XX
- STANDING BEAM METAL ROOF - SBR**
- (SBR-1) STANDING BEAM
- OTHER ITEMS**
- (GL) GLAZING SYSTEM, REFER TO A621 FOR MORE INFORMATION
 - (L) LIGHTING, REFER TO ELECTRICAL
 - (LO) LOUVER, REFER TO MECHANICAL



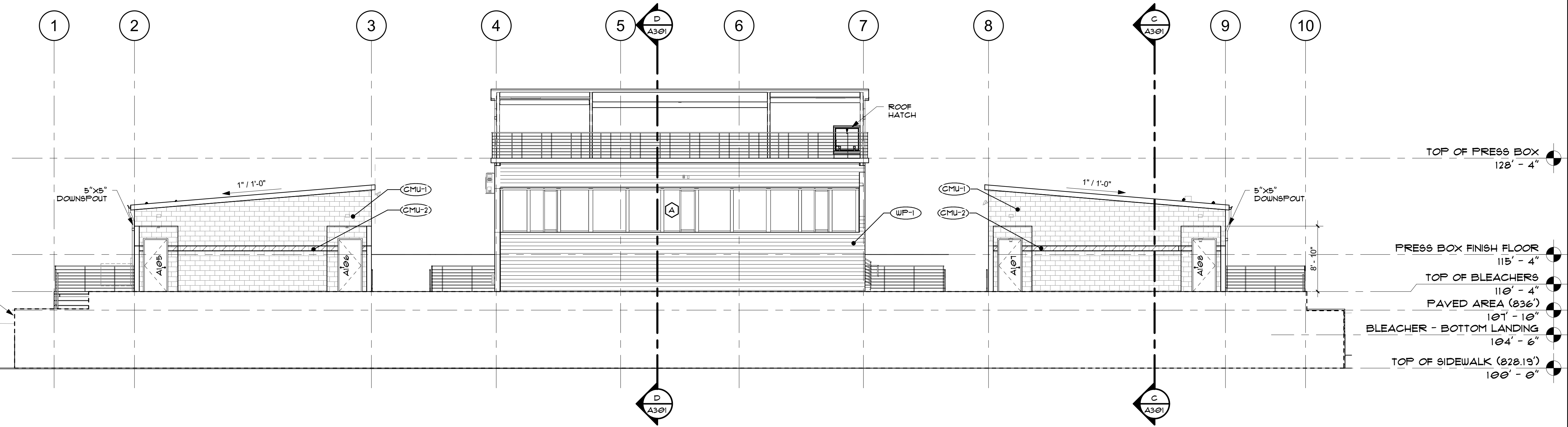
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1/8" = 1'-0"



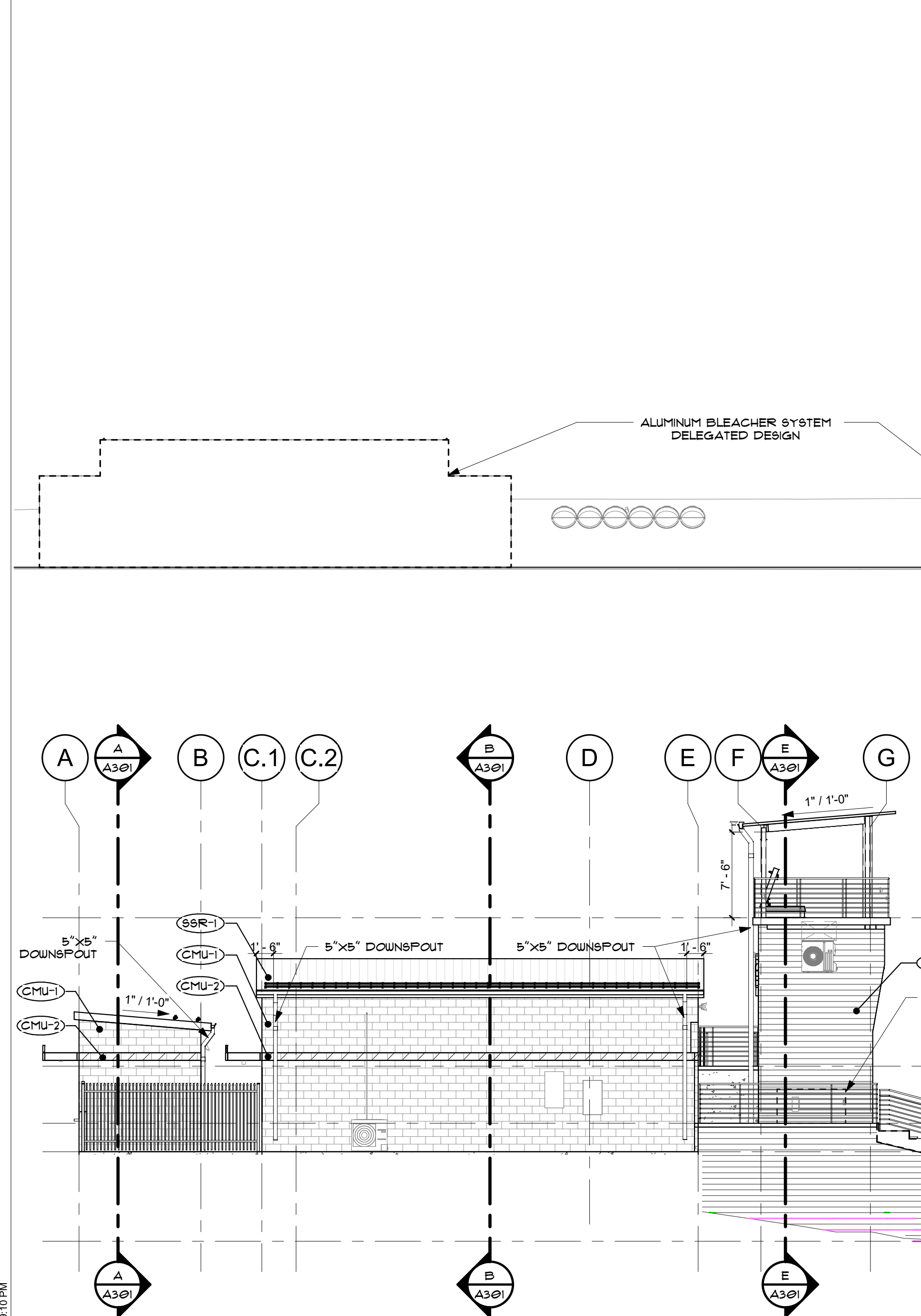
E EXTERIOR ELEVATION
1/8" = 1'-0"



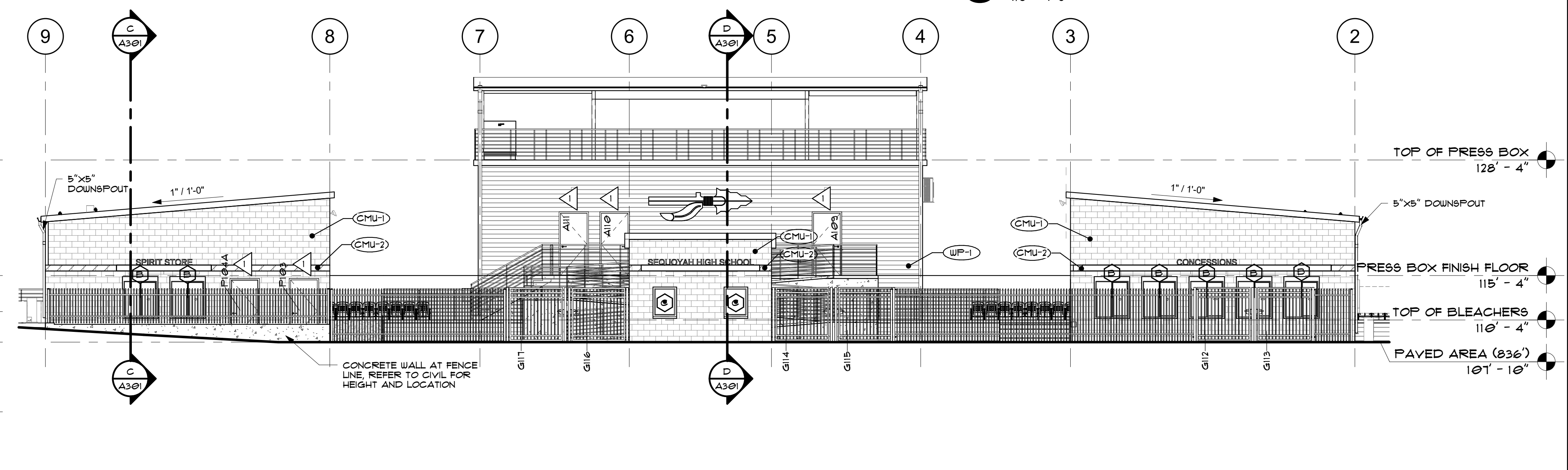
D EXTERIOR ELEVATION
1/8" = 1'-0"



C EXTERIOR ELEVATION
1/8" = 1'-0"



B EXTERIOR ELEVATION
1/8" = 1'-0"



A EXTERIOR ELEVATION
1/8" = 1'-0"

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17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

A301
BUILDING SECTIONS

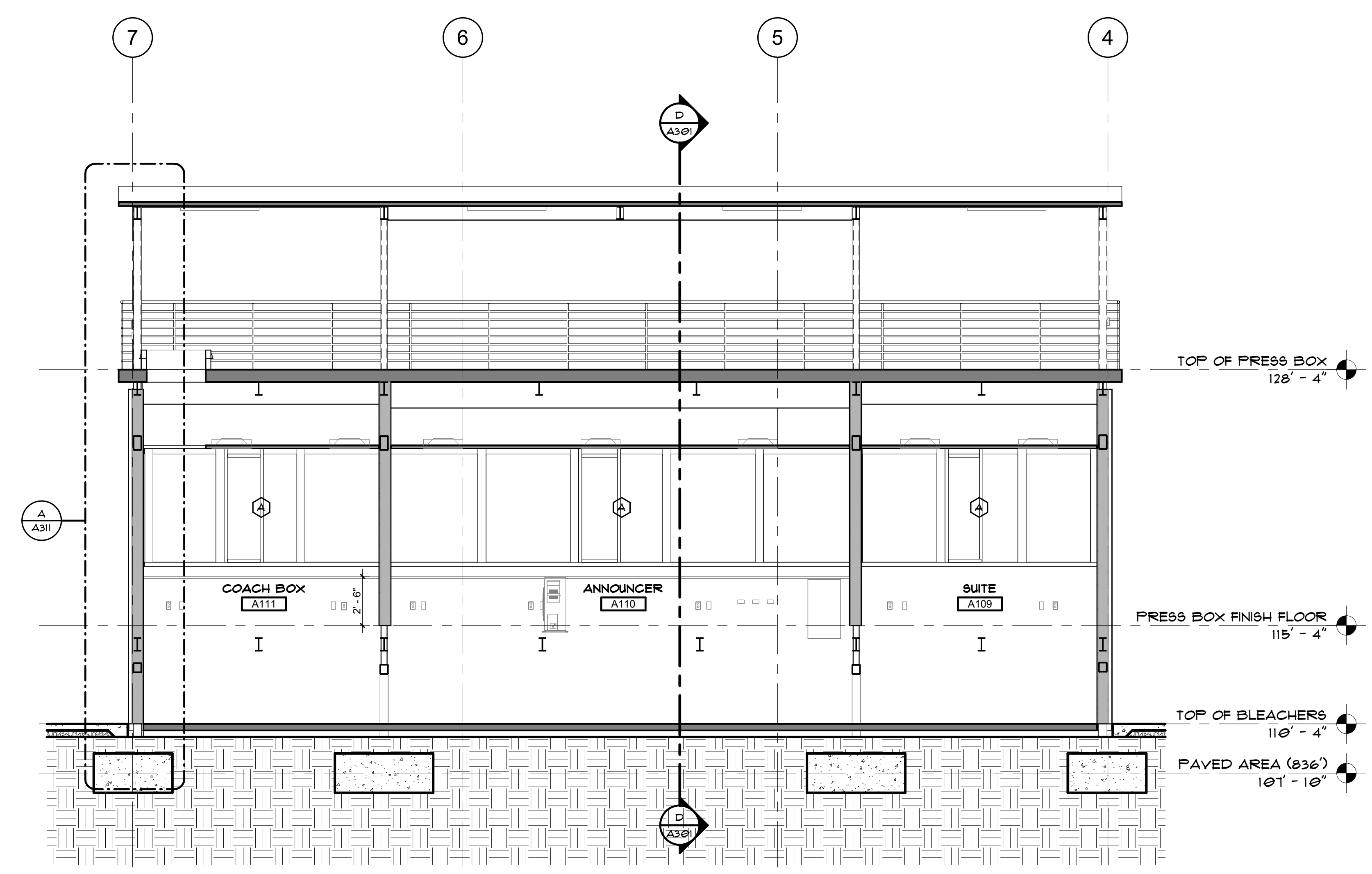


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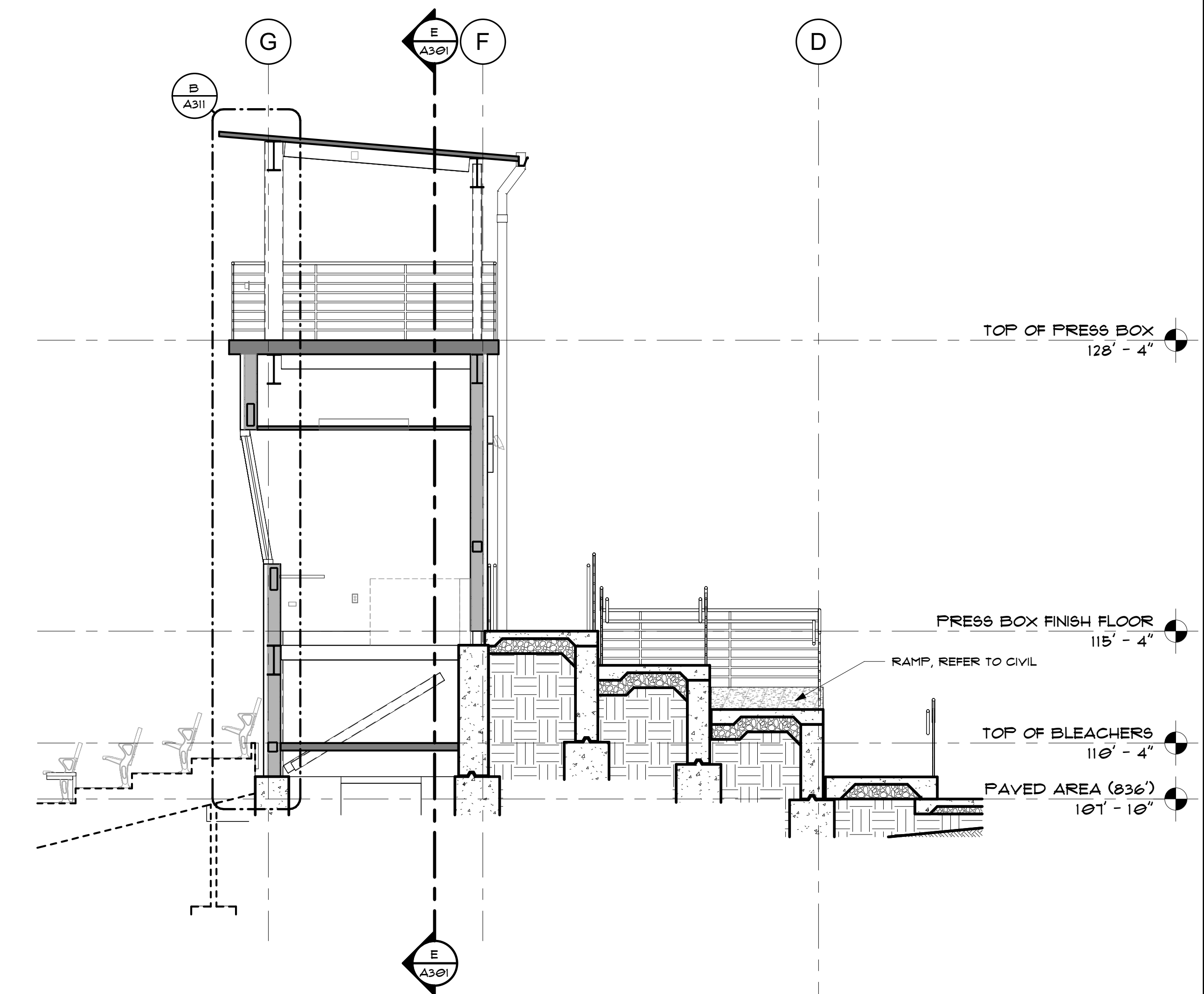
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BUILDING SECTIONS

SHEET NUMBER:
A301

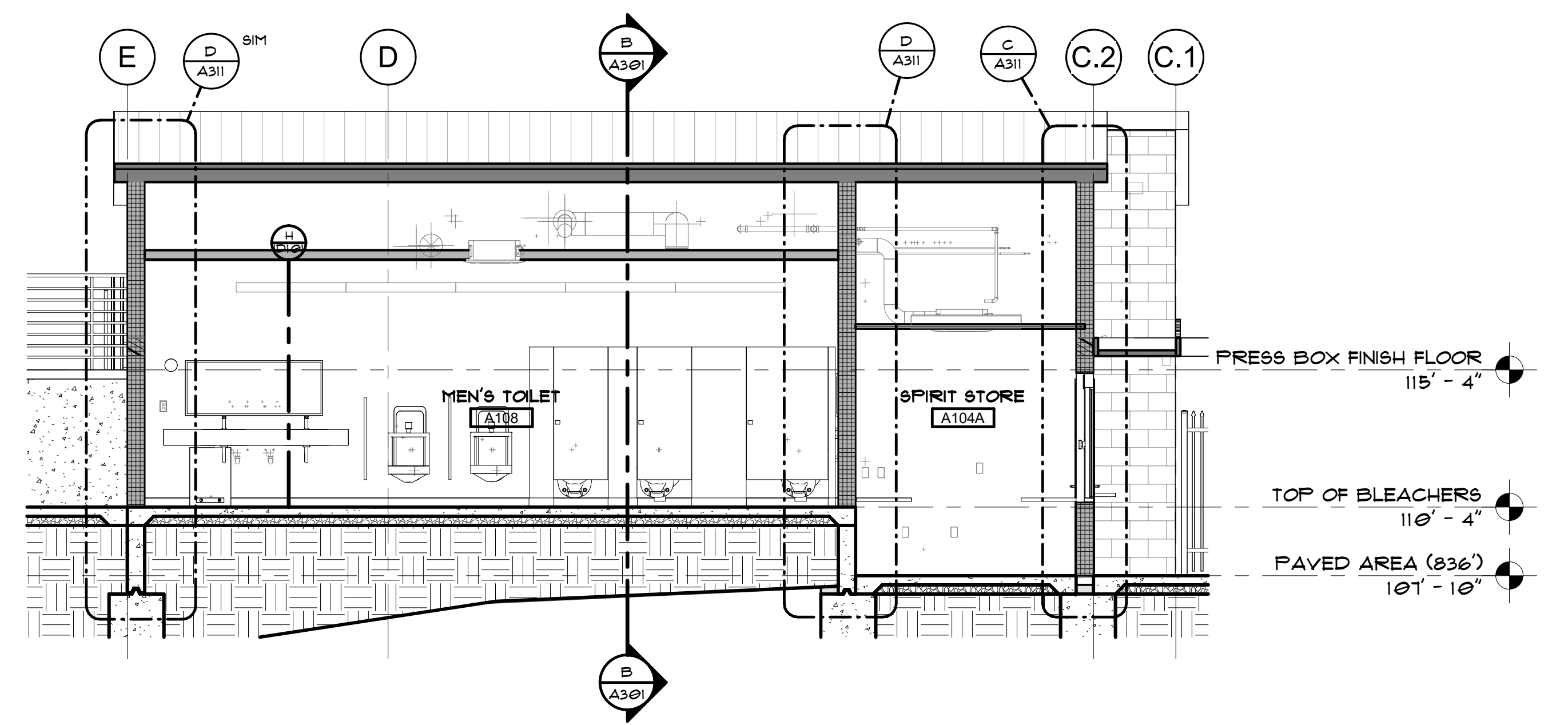
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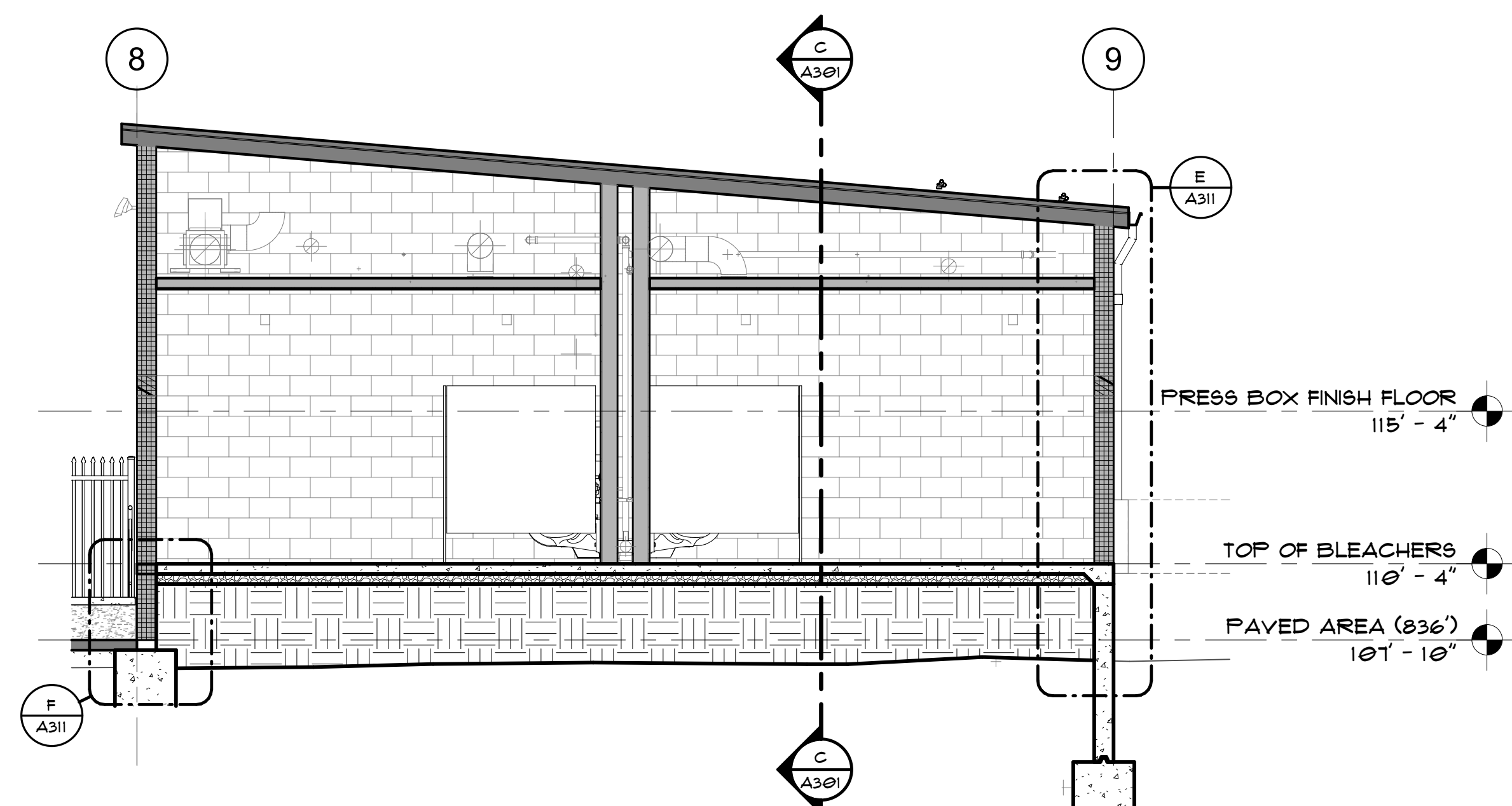
E BUILDING SECTION
1/4" = 1'-0"



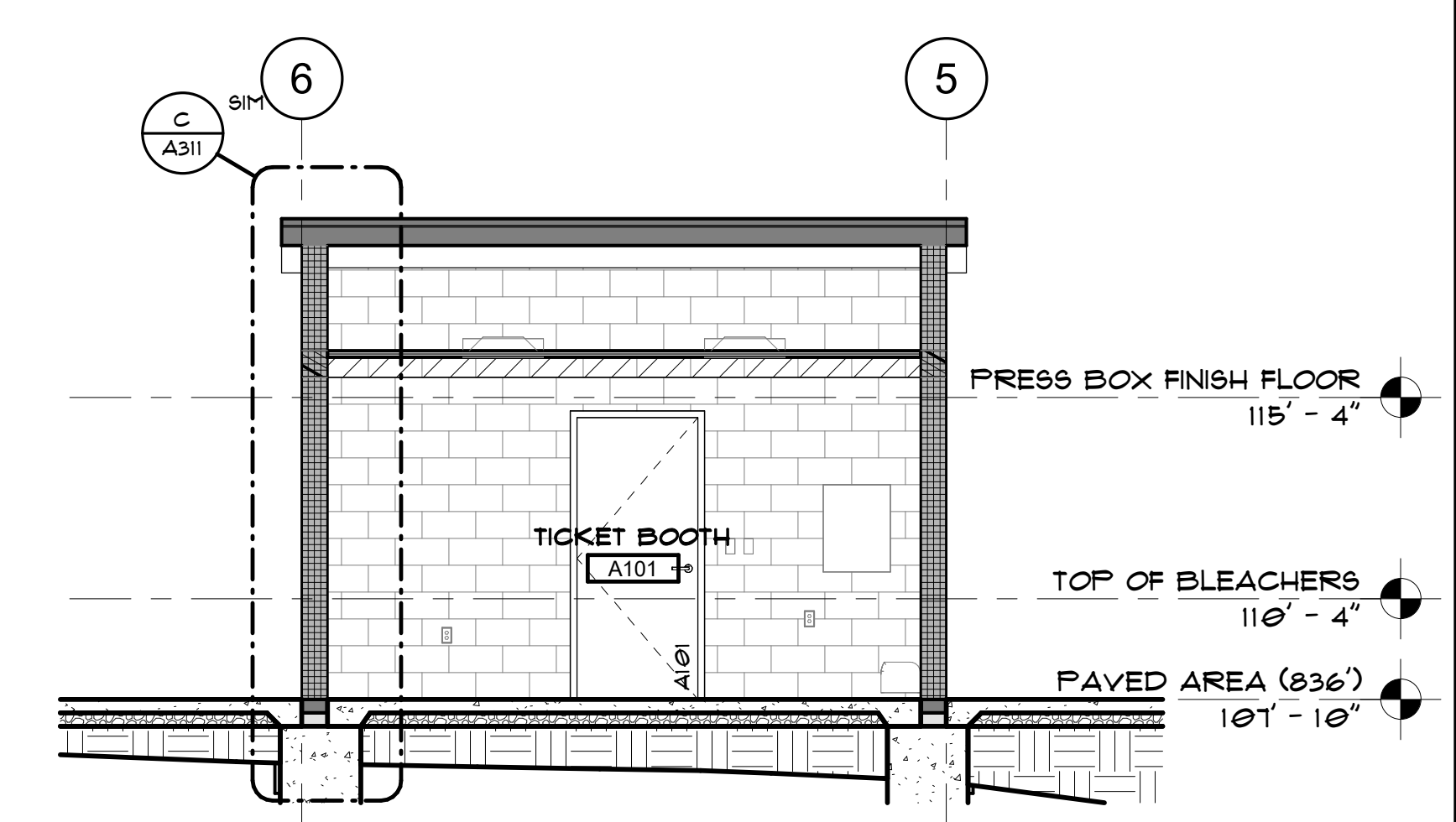
D BUILDING SECTION
1/4" = 1'-0"



C BUILDING SECTION
1/4" = 1'-0"



B BUILDING SECTION
1/4" = 1'-0"



A BUILDING SECTION
1/4" = 1'-0"

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20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

A311
WALL SECTIONS



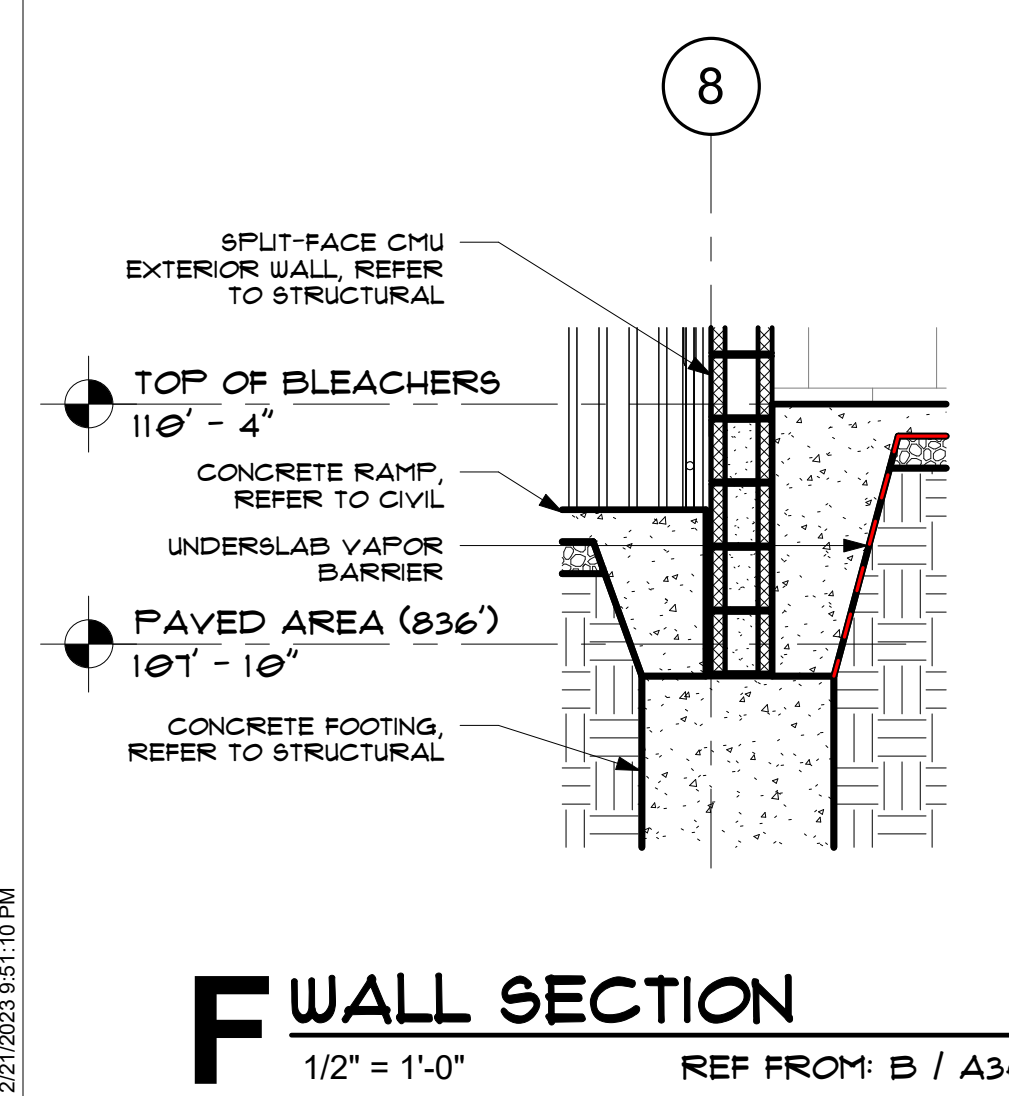
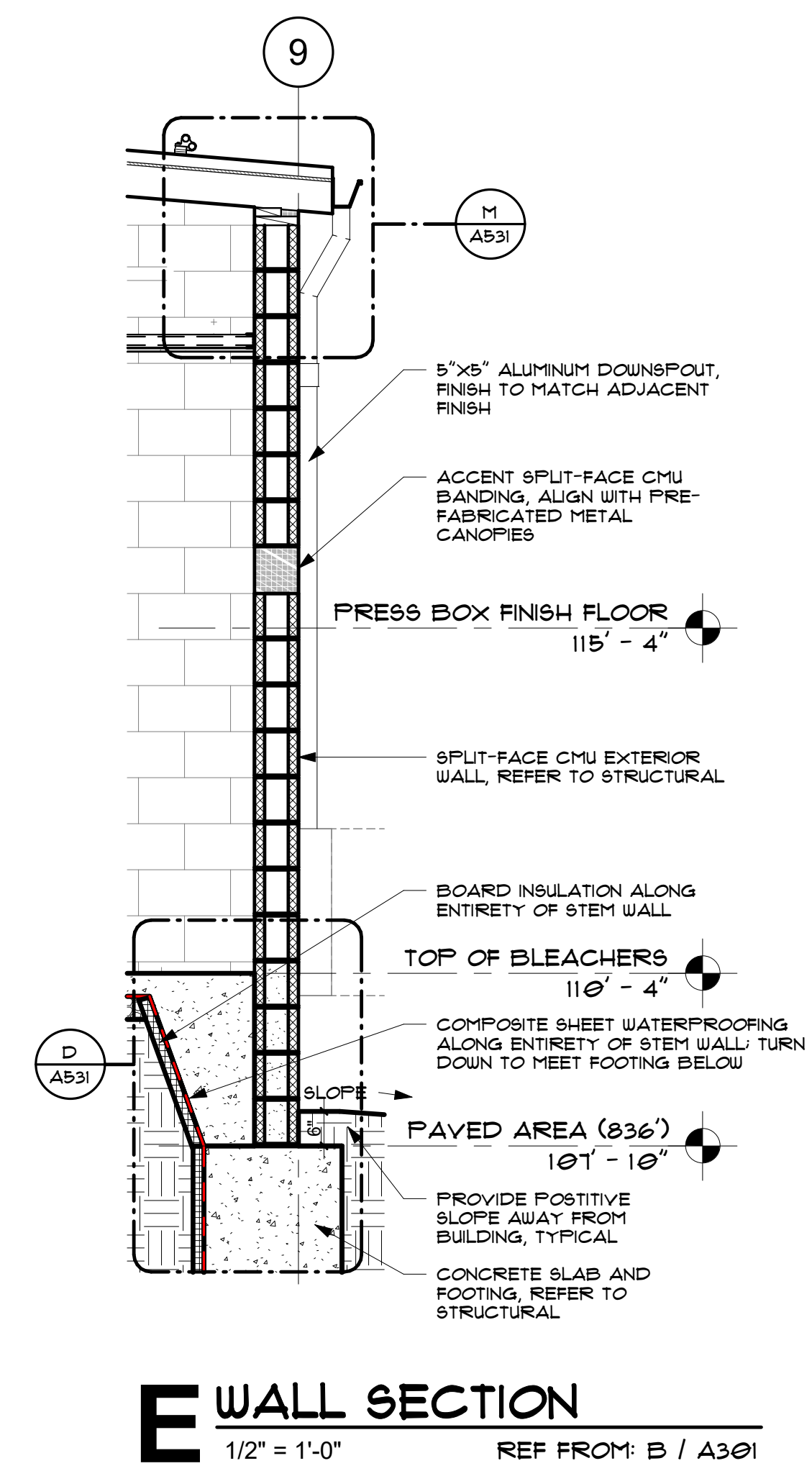
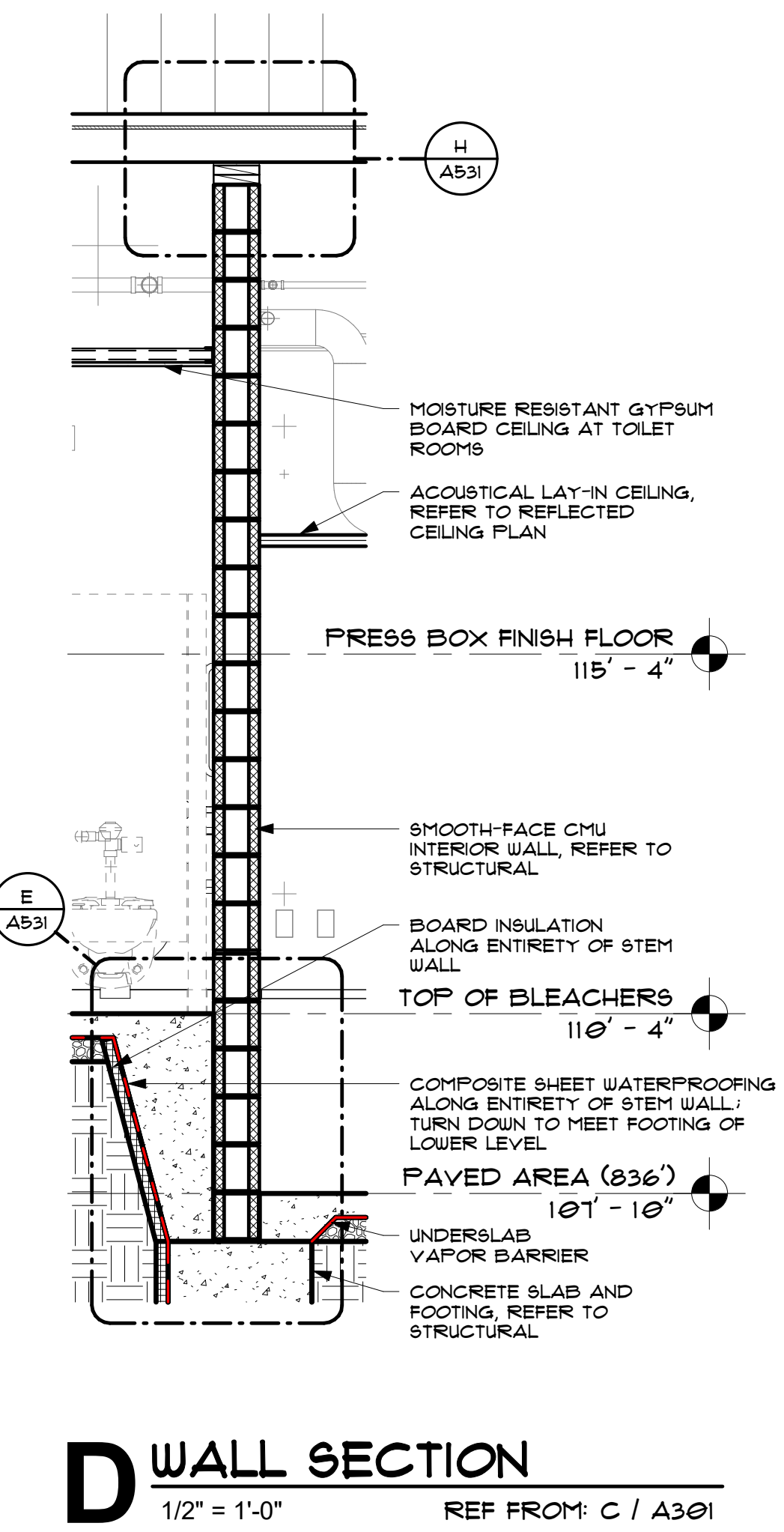
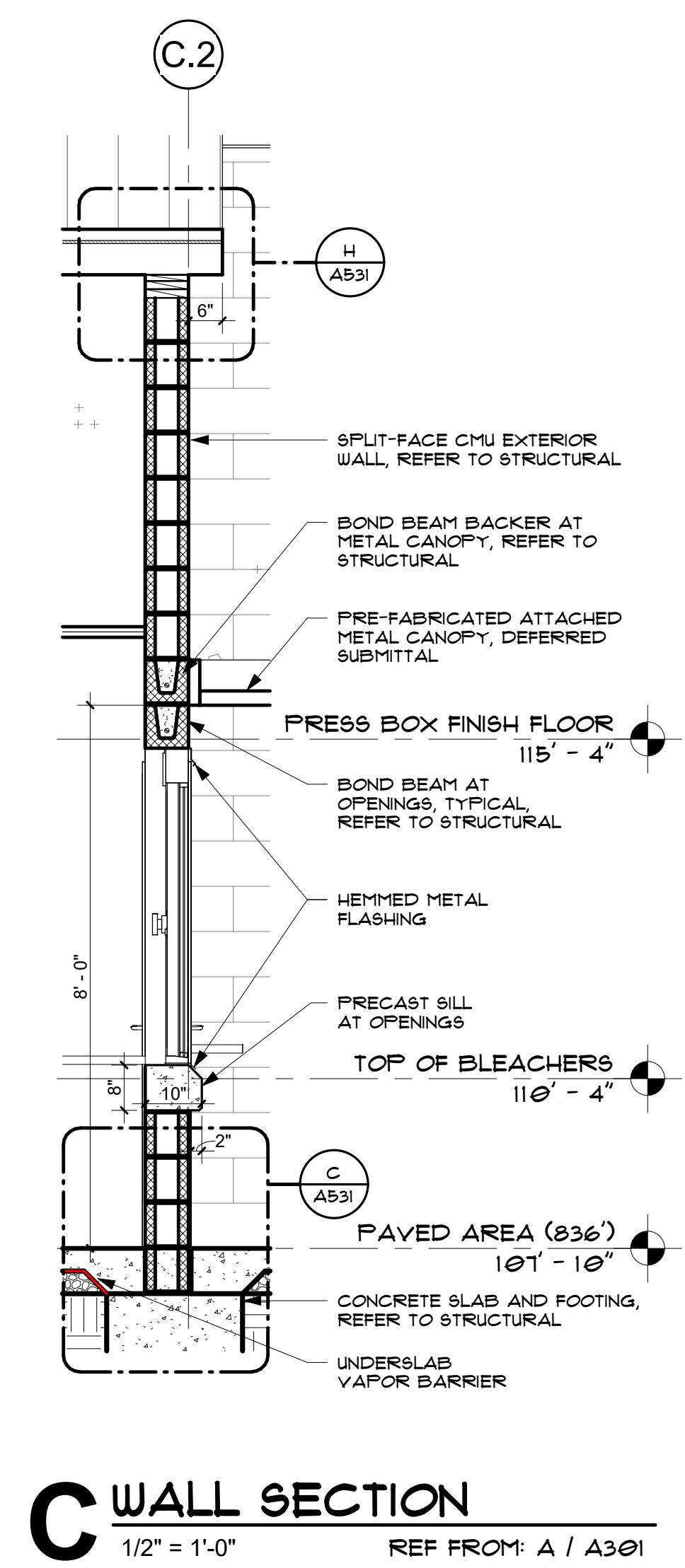
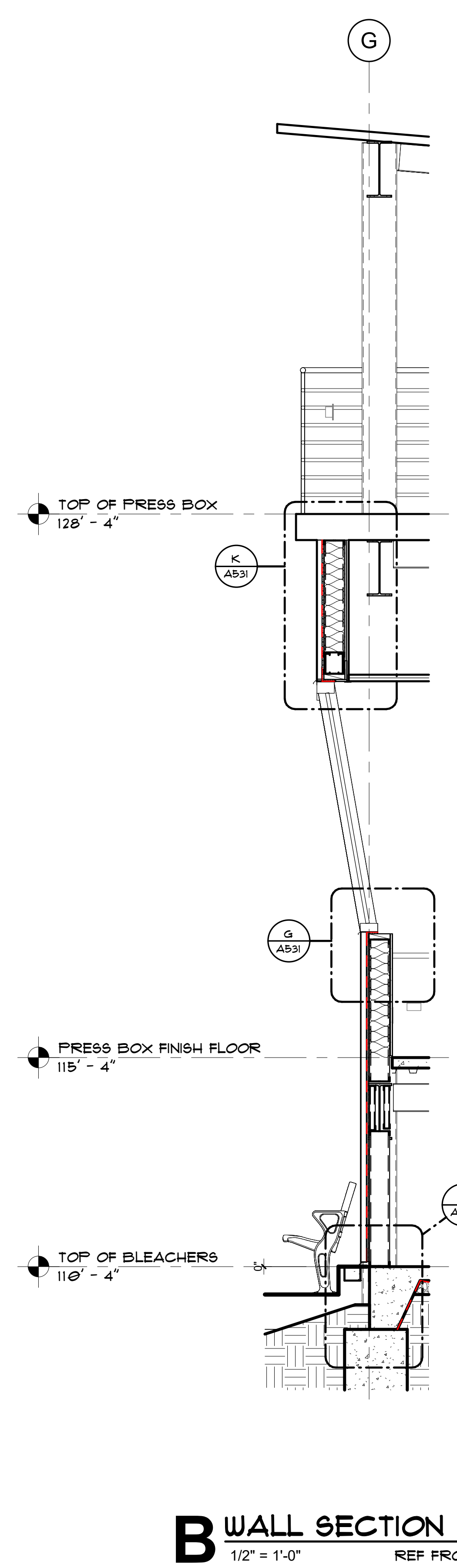
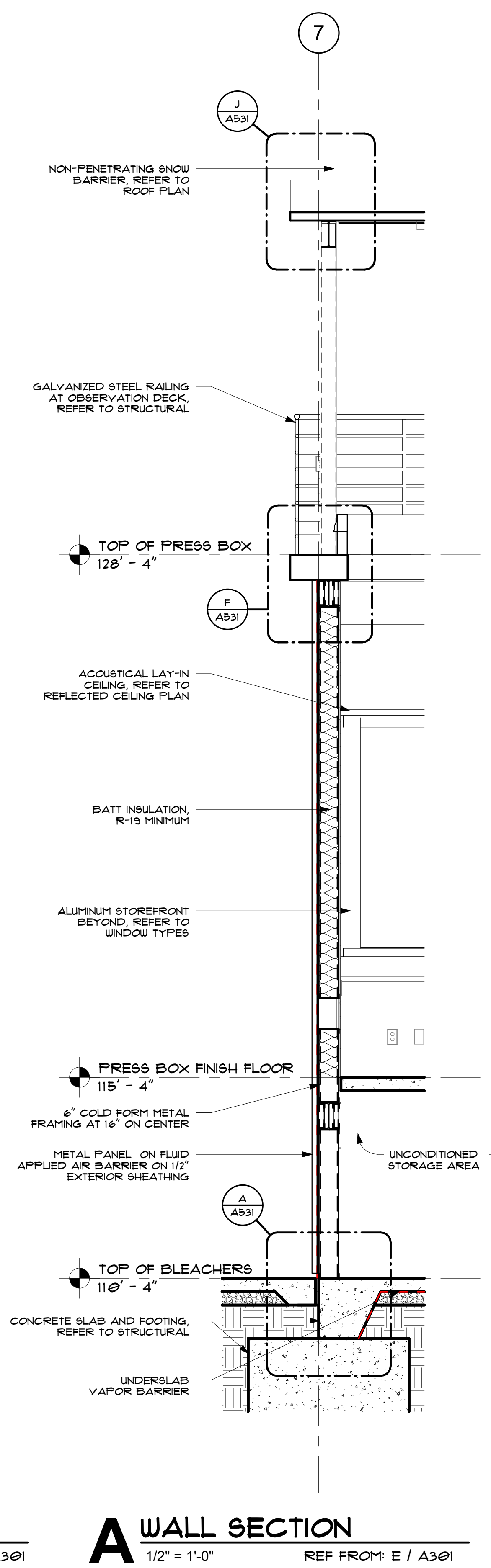
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ISSUE DATE:
12/22/2023
ISSUE:
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NO. DESCRIPTION DATE

SHEET NAME:
WALL SECTIONS

SHEET NUMBER:
A311

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F WALL SECTION
1/2" = 1'-0" REF FROM: B / A301

E WALL SECTION
1/2" = 1'-0" REF FROM: B / A301

D WALL SECTION
1/2" = 1'-0" REF FROM: C / A301

C WALL SECTION
1/2" = 1'-0" REF FROM: A / A301

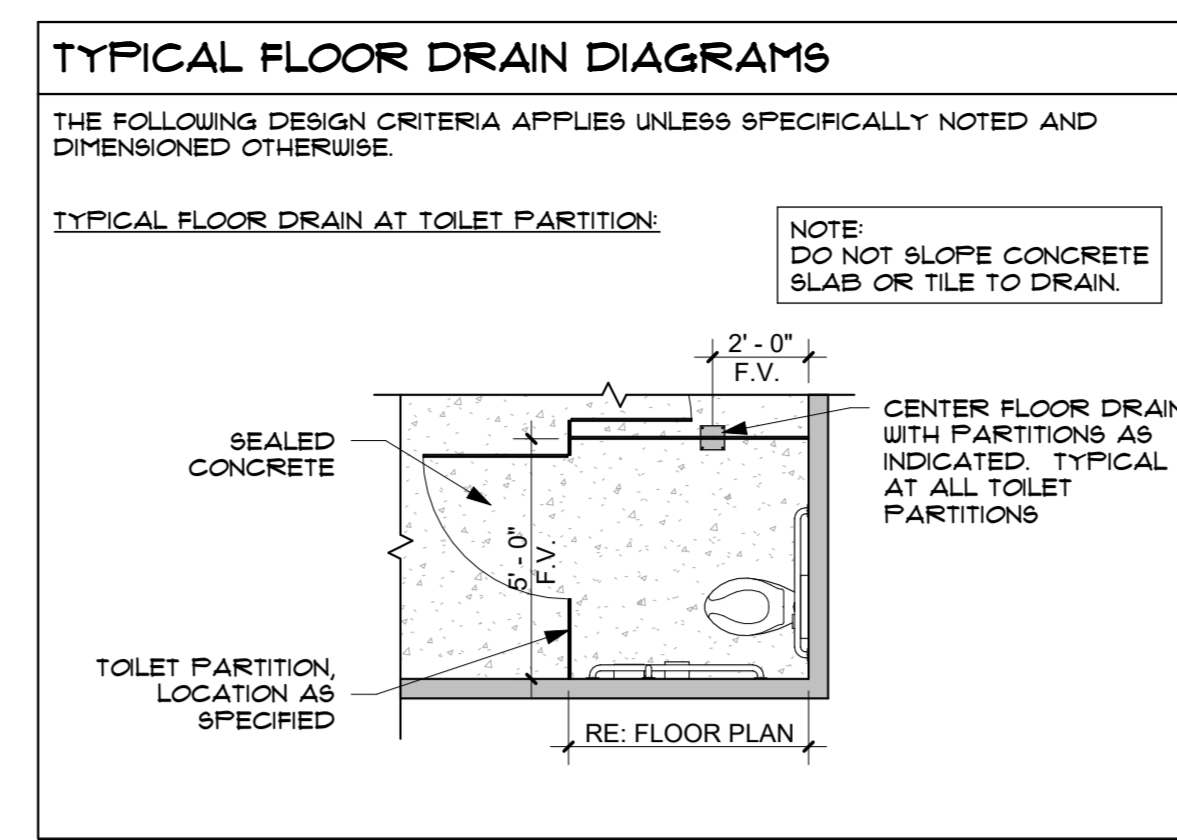
B WALL SECTION
1/2" = 1'-0" REF FROM: D / A301

A WALL SECTION
1/2" = 1'-0" REF FROM: E / A301

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EQUIPMENT SCHEDULE				
ALL MAKES AND MODELS TO BE VERIFIED WITH OWNER. CONTRACTOR TO CONFIRM ALL QUANTITIES.				
EQ#	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQ-1	UNDER-MOUNT BATHROOM SINK			
EQ-2	SURFACE MOUNTED SODA MACHINE DISPENSER			VERIFY PRODUCT WITH OWNER BEFORE INSTALLATION
EQ-2	ICE CUBE MAKER	MANTOUCCO	UDF-0240A	
EQ-3	3-DOOR REFRIGERATOR	AVANTCO	178GDC63HCB	
FF#				
TA-2	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE			SURFACE MOUNTED
TA-25	WALL-MOUNTED SINK	SLOAN	AER-DEC® 2-STATION WALL-MOUNTED SINK	SEE ELEVATIONS FOR DETAILS

- ### INTERIOR ELEVATION GENERAL NOTES
- REFER TO G001 FOR STANDARD MOUNTING HEIGHTS.
 - REFER TO SHEET A611 FOR DOOR SCHEDULE.
 - REFER TO SHEET A611 FOR WINDOW TYPES.
 - PROVIDE BLOCKING AT ALL WALL CABINETS AND ALL WALL MOUNTED EQUIPMENT.
 - EQUIPMENT SHOWN IN DASH AND/OR HALFTONE SHALL BE OWNER FURNISHED, OWNER INSTALLED. EQUIPMENT IS SHOWN HERE FOR COORDINATION AND BACKING PURPOSES ONLY. MAKES AND MODELS SHALL BE CONFIRMED WITH OWNER.
 - EXPOSED SURFACES OF CABINETS FINISHED TO MATCH FACE.
 - ALL COUNTERTOPS SHALL HAVE EASED EDGE CORNERS AT ALL EXPOSED EXTERIOR CORNERS.
 - ALL EXPOSED PIPES UNDER RESTROOM SINKS TO HAVE INSULATION WRAP.

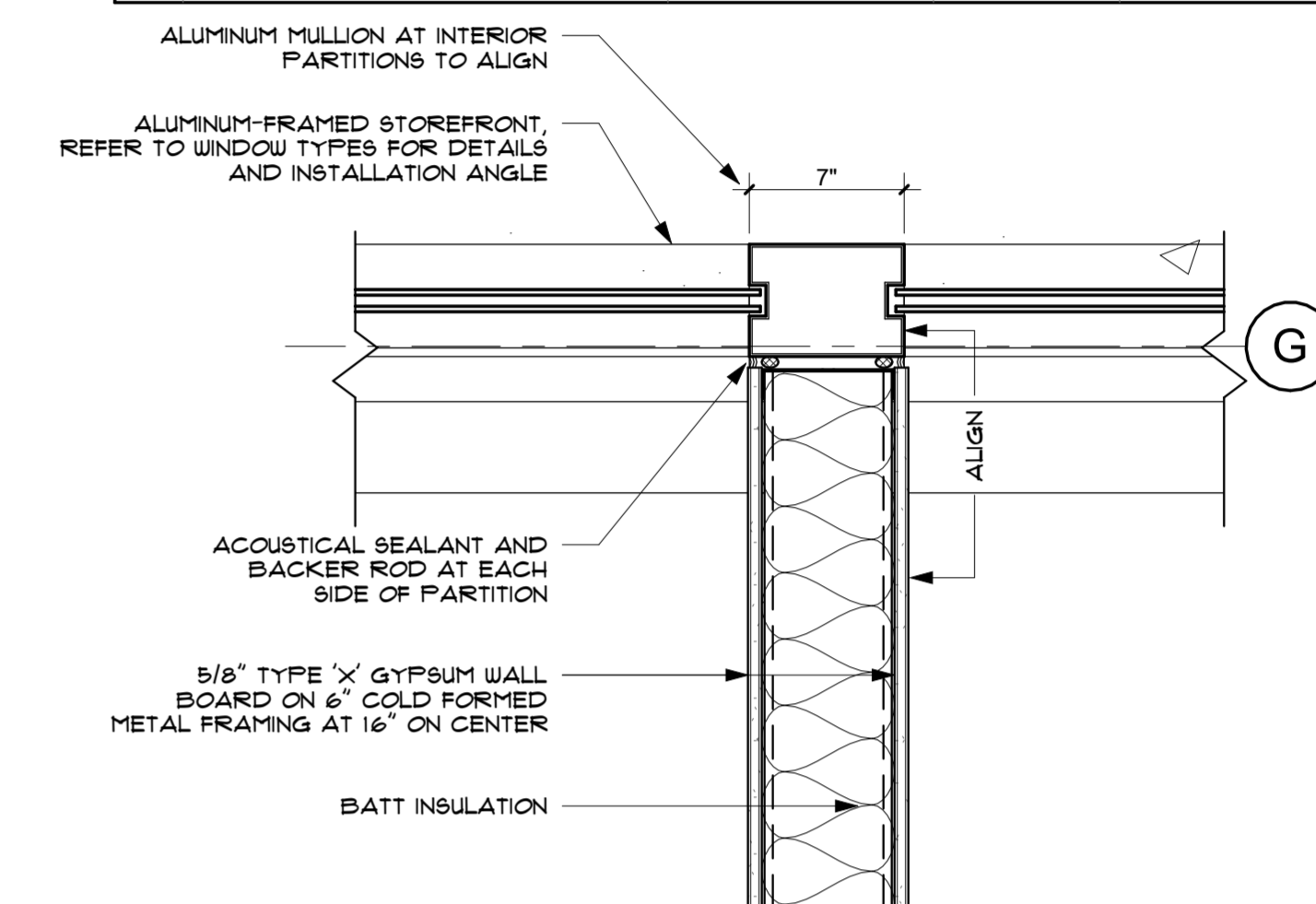
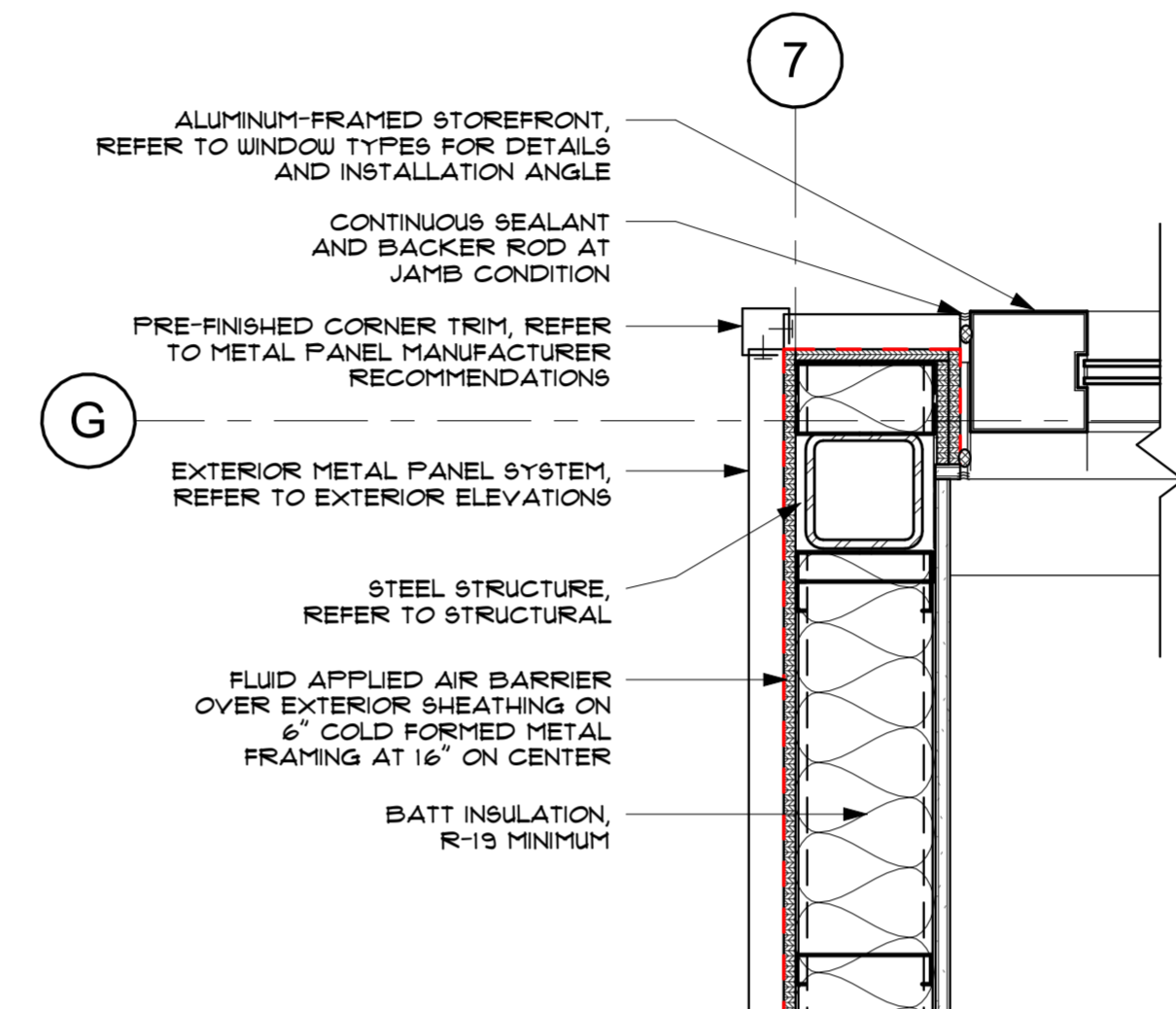
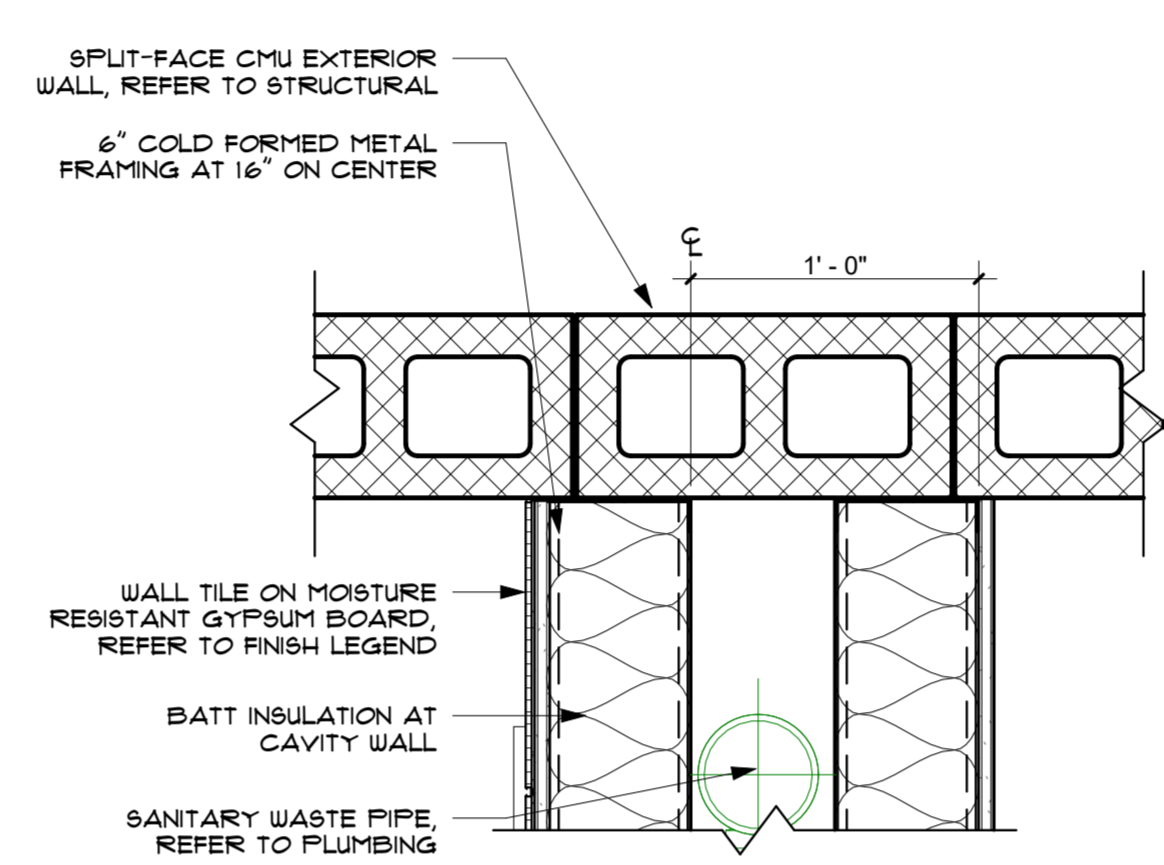
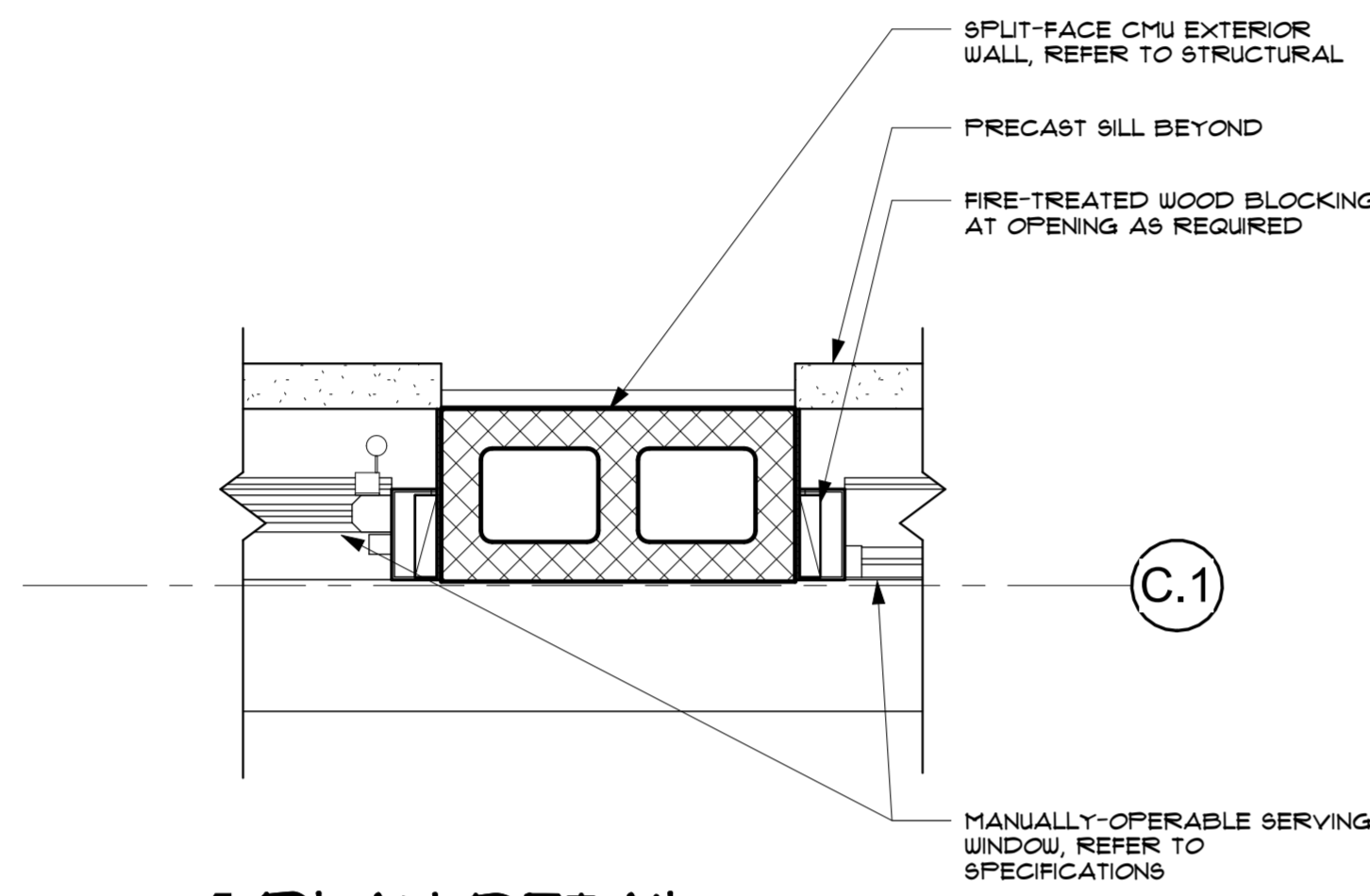


- ### TOILET ACCESSORIES GENERAL NOTES
- REFER TO ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES INDICATED ON SHEET G004. REFER TO SPECIFICATION 102800 - TOILET, BATH AND LAUNDRY ACCESSORIES FOR ADDITIONAL INFORMATION. COORDINATE AND VERIFY ALL CFI AND CFI ITEMS WITH OWNER.
 - TOILET PAPER DISPENSER, CFI. LOCATIONS NOT SHOWN. PROVIDE ONE PER WATER CLOSET. COORDINATE MOUNTING WITH TOILET PARTITION DOOR SWING. RIGHT SIDE OF FAUCET, ONE PER LAVATORY, RE: MEP.
 - AUTOMATIC SOAP DISPENSER, CFI. LOCATIONS NOT SHOWN. DECK-MOUNTED, RIGHT SIDE OF FAUCET, ONE PER LAVATORY, RE: MEP.
 - MANUAL SOAP DISPENSER, CFI. LOCATIONS NOT SHOWN. PROVIDE OWNER PER TILE SHOWER, RE: SPECIFICATIONS.
 - GRAB BARS, CFI. PROVIDE 18 INCH, 36 INCH AND 42 INCH GRAB BARS AS INDICATED ON SHEET G001 AND AS REQUIRED BY CODE AT ALL WATER CLOSETS.
 - SANITARY NAPKIN DISPOSAL UNIT, CFI. LOCATIONS NOT SHOWN. PROVIDE ONE PER WATER CLOSET IN WOMEN'S TOILET ROOMS. PROVIDE ONE PER SINGLE OCCUPANCY TOILET ROOMS.
 - DOOR AND STALL DOOR HOOKS, CFI. LOCATIONS NOT SHOWN. PROVIDE ONE HOOK PER ENTRY DOOR AT SINGLE OCCUPANCY WATER CLOSETS. RE: SPECIFICATION SECTION 081100 - DOOR HARDWARE. PROVIDE ONE HOOK PER STALL DOOR. RE: SPECIFICATION 1021315 - PLASTIC TOILET COMPARTMENTS.
 - MOP AND BROOM HOLDER / COMBINATION UTILITY SHELF, CFI. PROVIDE ONE AT EACH UTILITY SINK. RE: SPECIFICATIONS.
 - PROVIDE TILE BEHIND MIRRORS, TYPICAL. VANITY MIRROR TO BE INSTALLED AT 3'-0" ABOVE FINISH FLOOR TO ALIGN WITH GROUT LINES.

TOILET ACCESSORIES

- PAPER TOWEL DISPENSER, CFI. LOCATIONS SHOWN FOR REFERENCE ONLY.
- AIR FRESHENER, CFI. LOCATIONS AS INDICATED, RE: SPECIFICATIONS.
- MIRRORS, CFI. PROVIDE SIZES AS INDICATED, RE: SPECIFICATION SECTION 083300 - MIRRORS.
- HAND SANITIZER DISPENSER, CFI. CENTER HORIZONTALLY ON WALL TILE LOCATIONS AS INDICATED, RE: SPECIFICATIONS.
- HORIZONTAL DIAPER CHANGING STATION, CFI. LOCATIONS AS INDICATED.

TOILET ACCESSORY SCHEDULE				
TA#	DESCRIPTION	MANUFACTURER	MODEL	NOTES
TA-1	CLASSIC SERIES SURFACE MOUNTED SOAP DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC.	B-2111	
TA-2	SURFACE-MOUNTED PAPER TOWEL DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC.	B-262 CLASSIC/SERIE S	
TA-3	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	BOBRICK WASHROOM EQUIPMENT, INC.	B-2508 SERIES	
TA-4	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC.	B-2888	
TA-5	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT, INC.	B-210	
TA-6	CLASSIC SERIES SURFACE MOUNTED SEAT COVER DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC.	B-221	
TA-1	GRAB BARS	BRADLEY CORPORATION	812	
TA-1	GRAB BARS	BRADLEY CORPORATION	812	
TA-2	GRAB BARS	BRADLEY CORPORATION	812	
TA-2	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK WASHROOM EQUIPMENT, INC.	B-3943	SURFACE MOUNTED

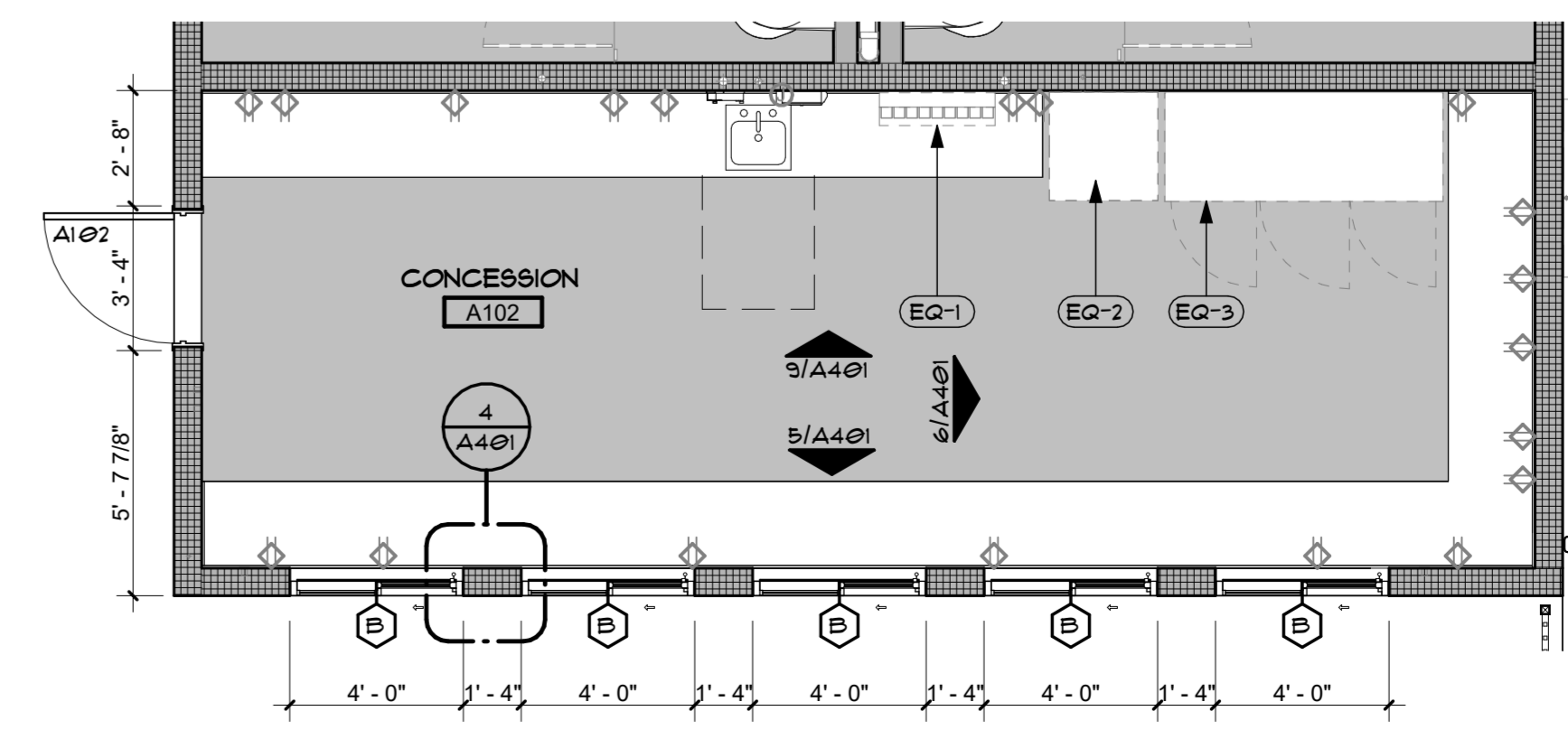
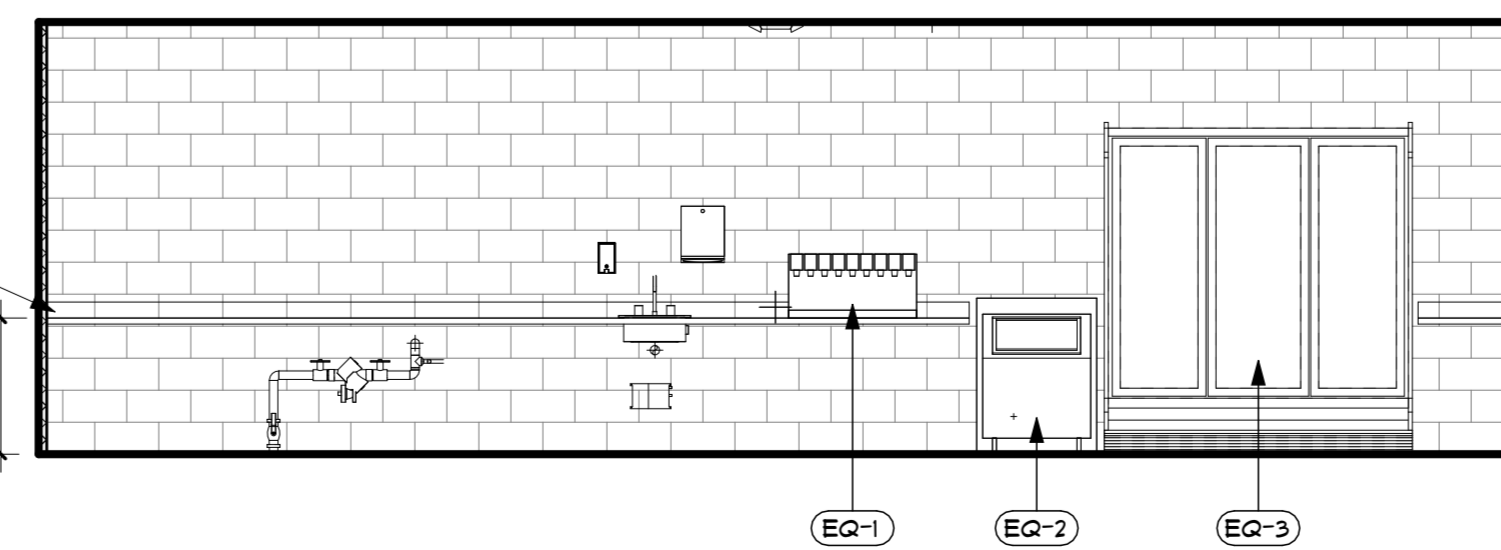
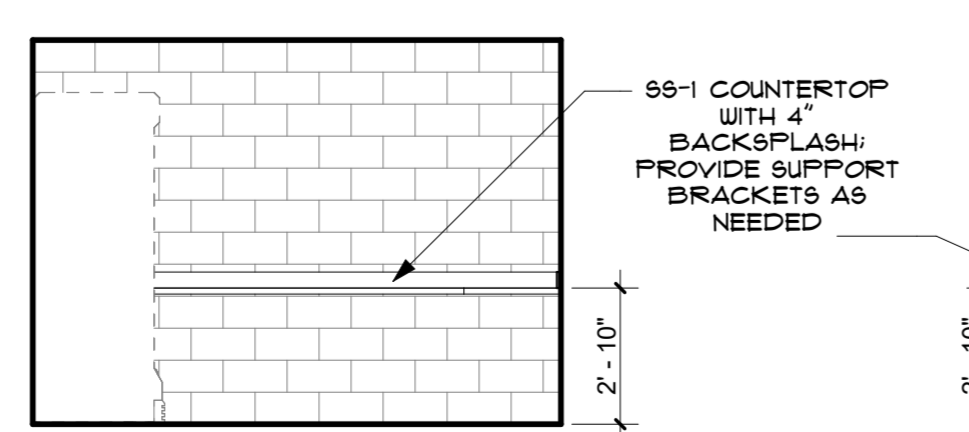
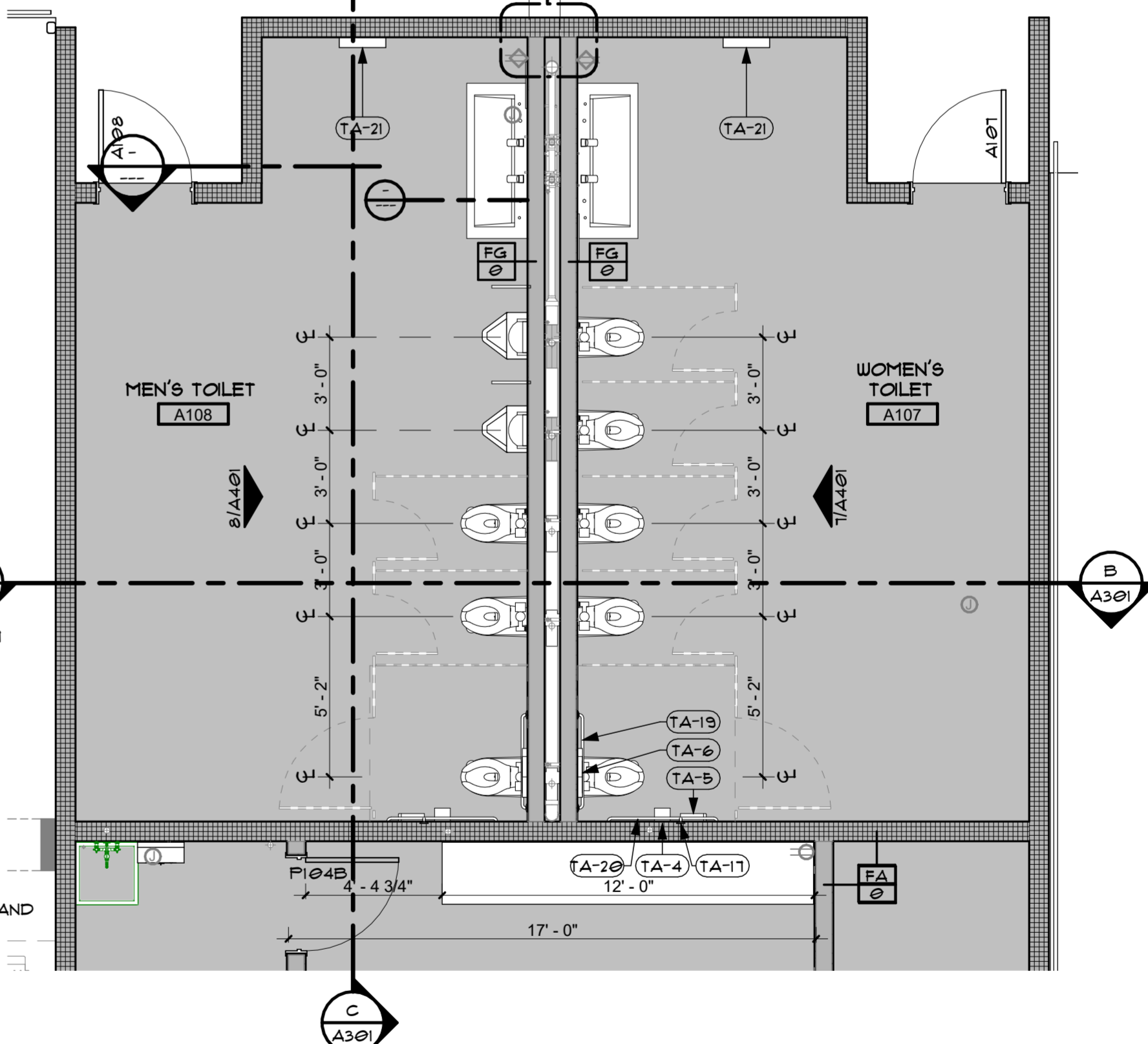
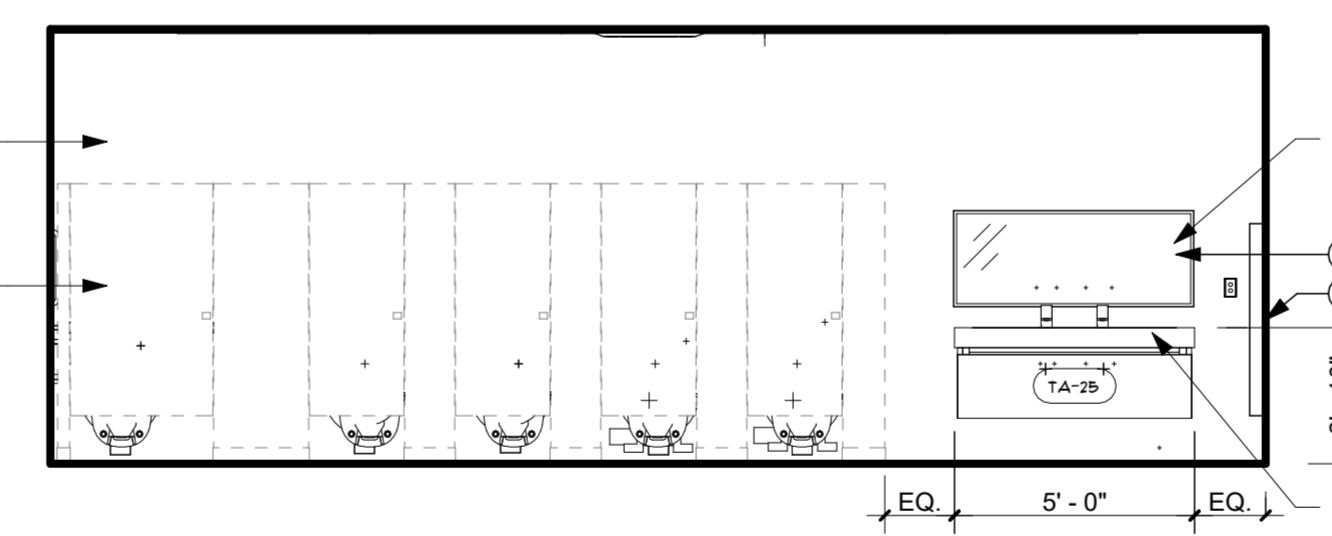
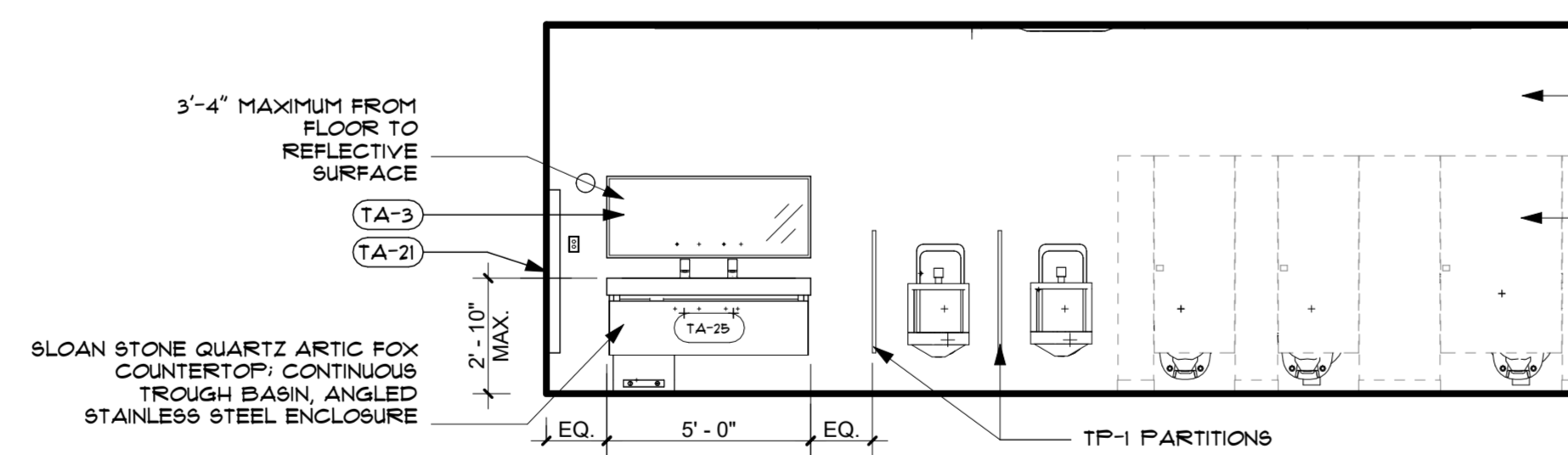


4 PLAN DETAIL
1 1/2" = 1'-0" REF FROM: 11 / A401

3 PLAN DETAIL
1 1/2" = 1'-0" REF FROM: 10 / A401

2 PLAN DETAIL
1 1/2" = 1'-0" REF FROM: D / A101

1 PLAN DETAIL
1 1/2" = 1'-0" REF FROM: D / A101



5 INTERIOR ELEVATION
1/4" = 1'-0"

6 INTERIOR ELEVATION
1/4" = 1'-0"

9 INTERIOR ELEVATION
1/4" = 1'-0"

11 ENLARGED CONCESSION PLAN
1/4" = 1'-0"



20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

A401 ENLARGED PLANS AND INTERIOR ELEVATIONS

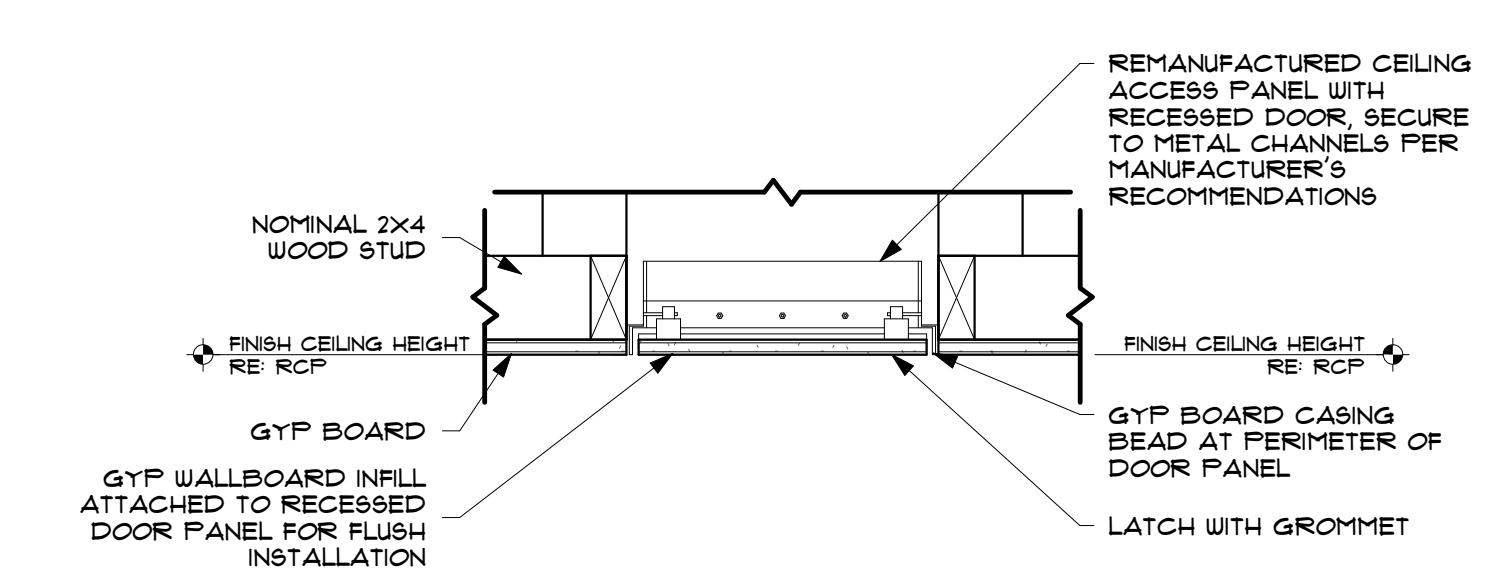


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20210121.35.05
ISSUE DATE:
01/02/24
ISSUE:

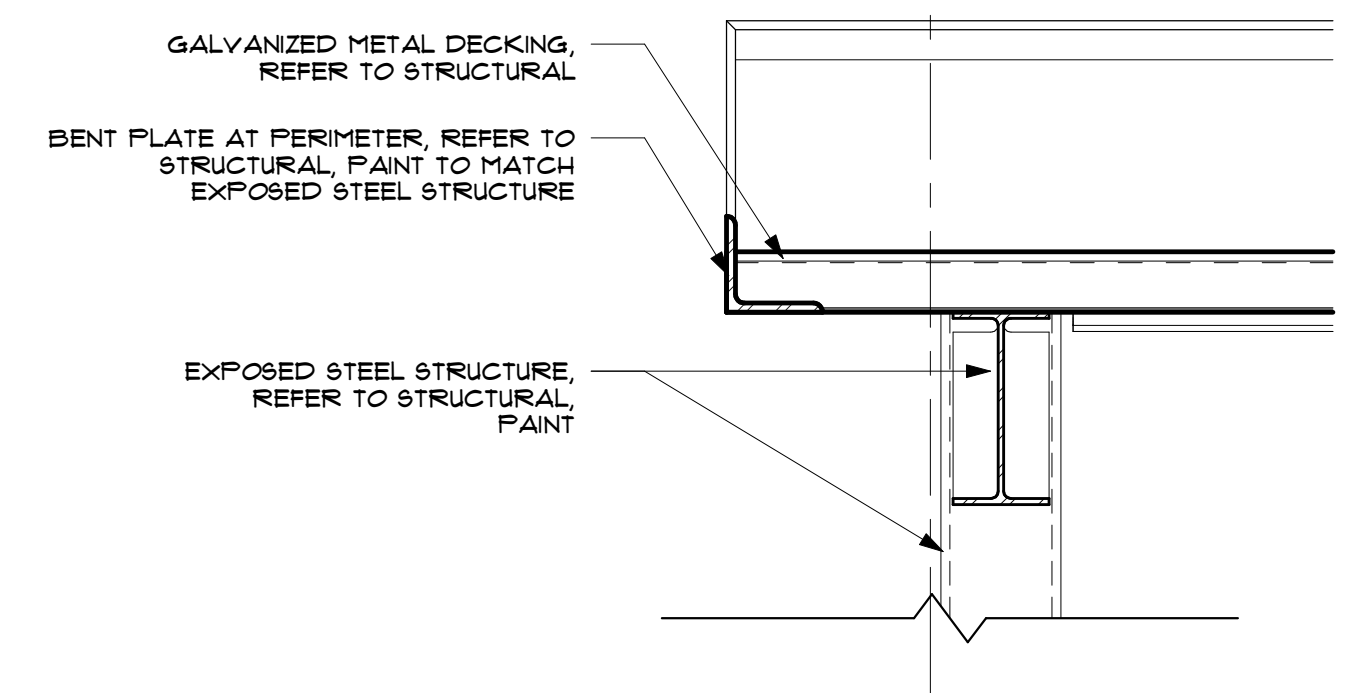
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NO. DESCRIPTION DATE

SHEET NAME:
ENLARGED PLANS AND INTERIOR ELEVATIONS

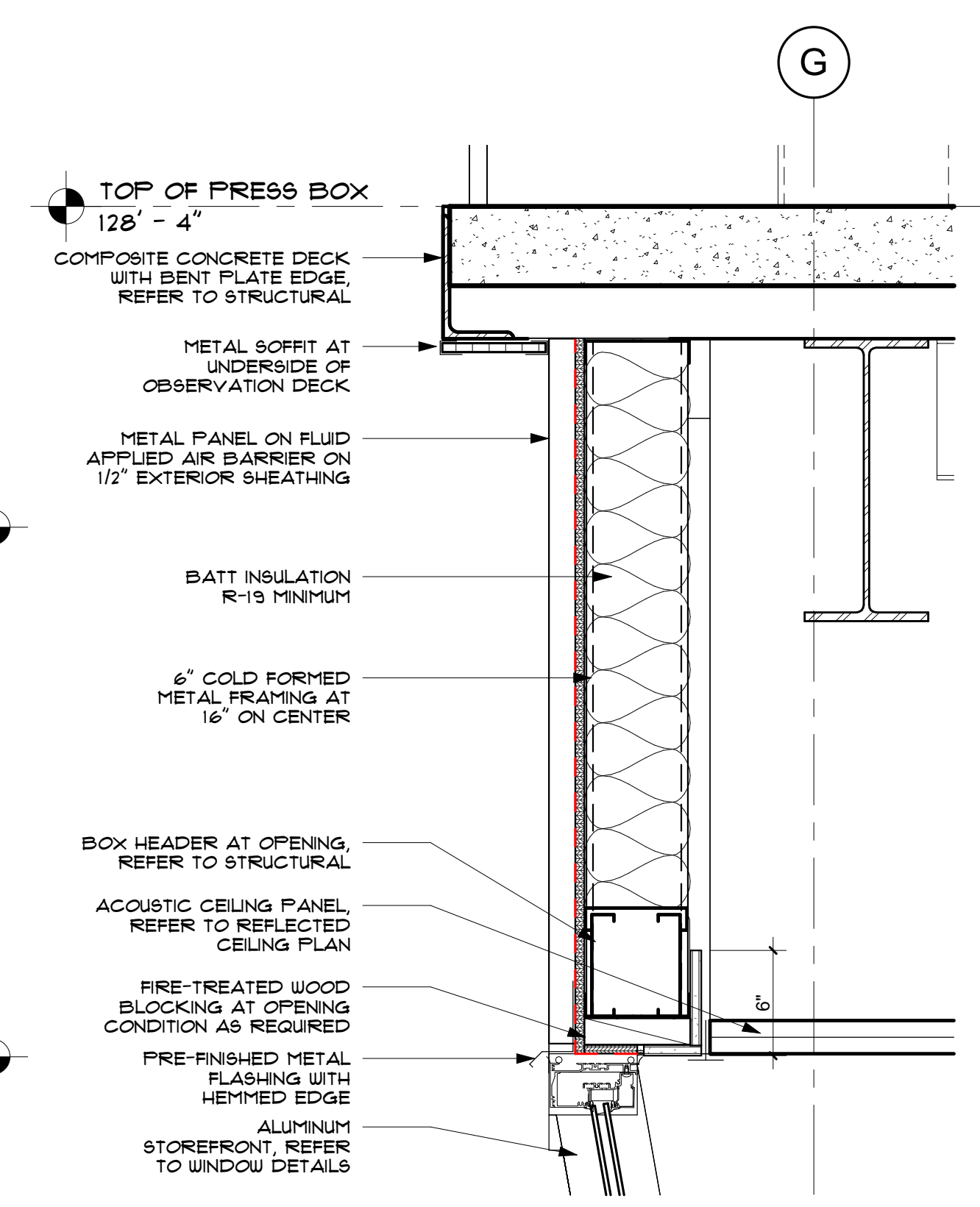
SHEET NUMBER:
A401
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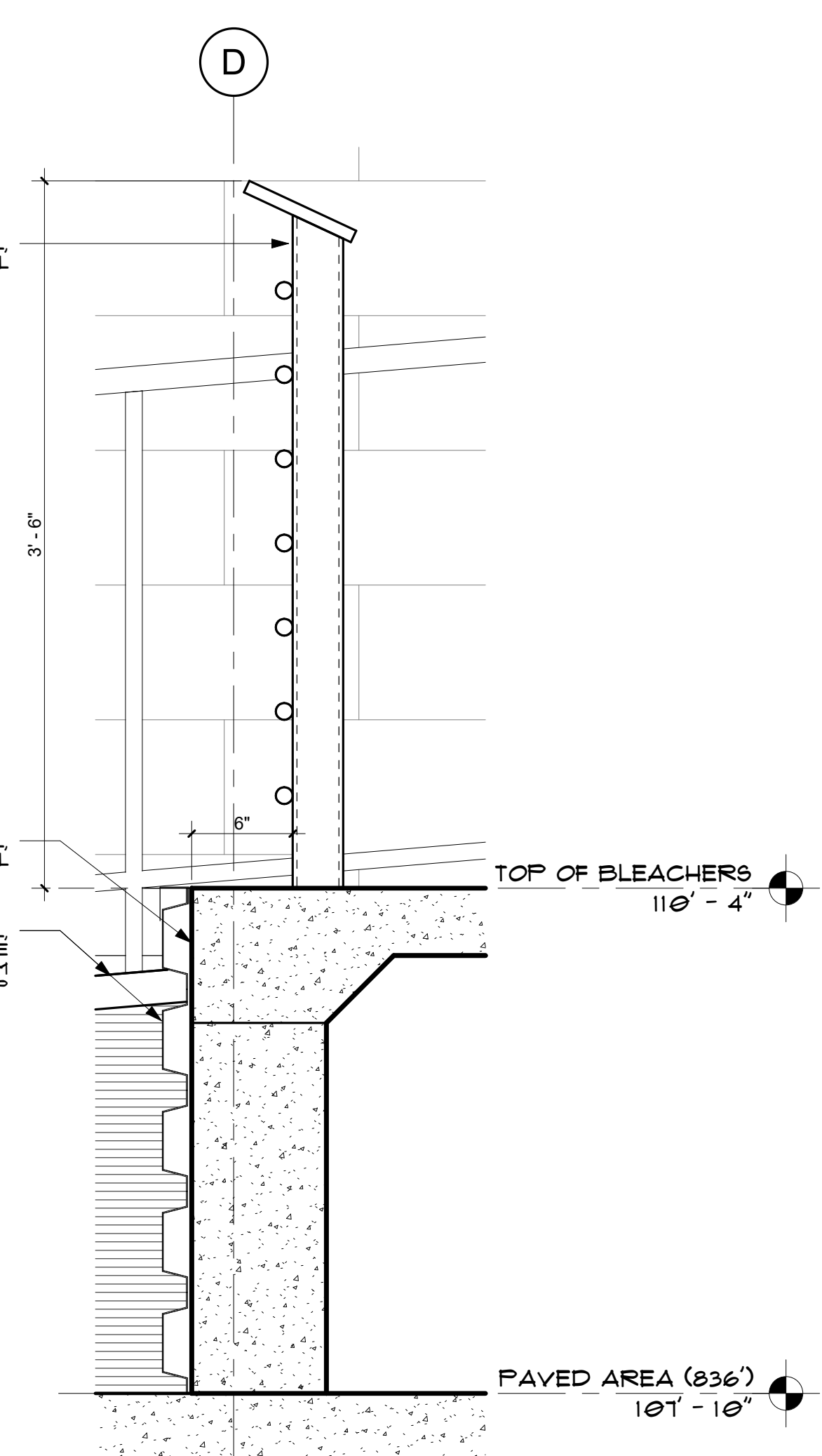
N SECTION DETAIL
1 1/2" = 1'-0"



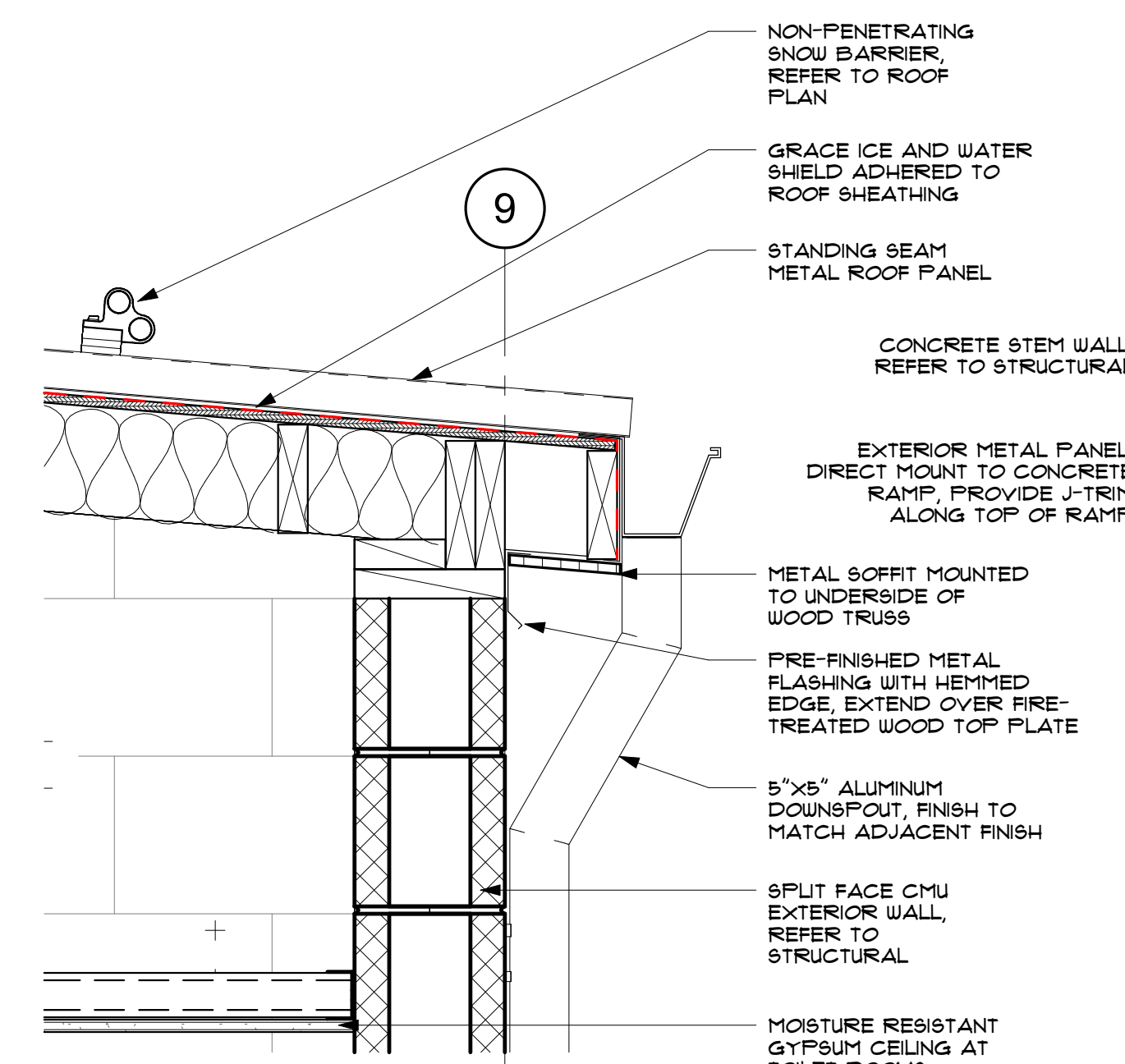
J SECTION DETAIL
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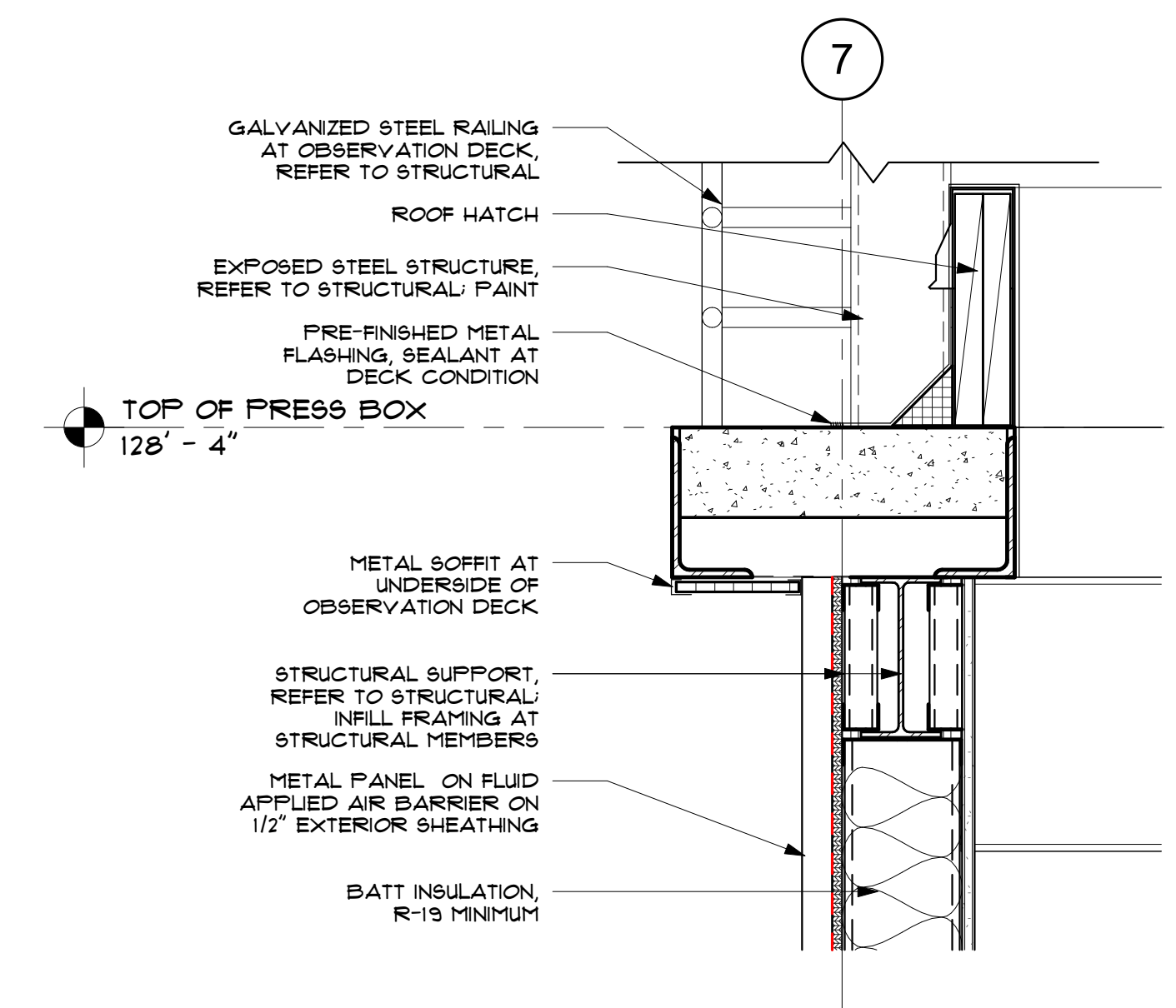
K SECTION DETAIL
1 1/2" = 1'-0"



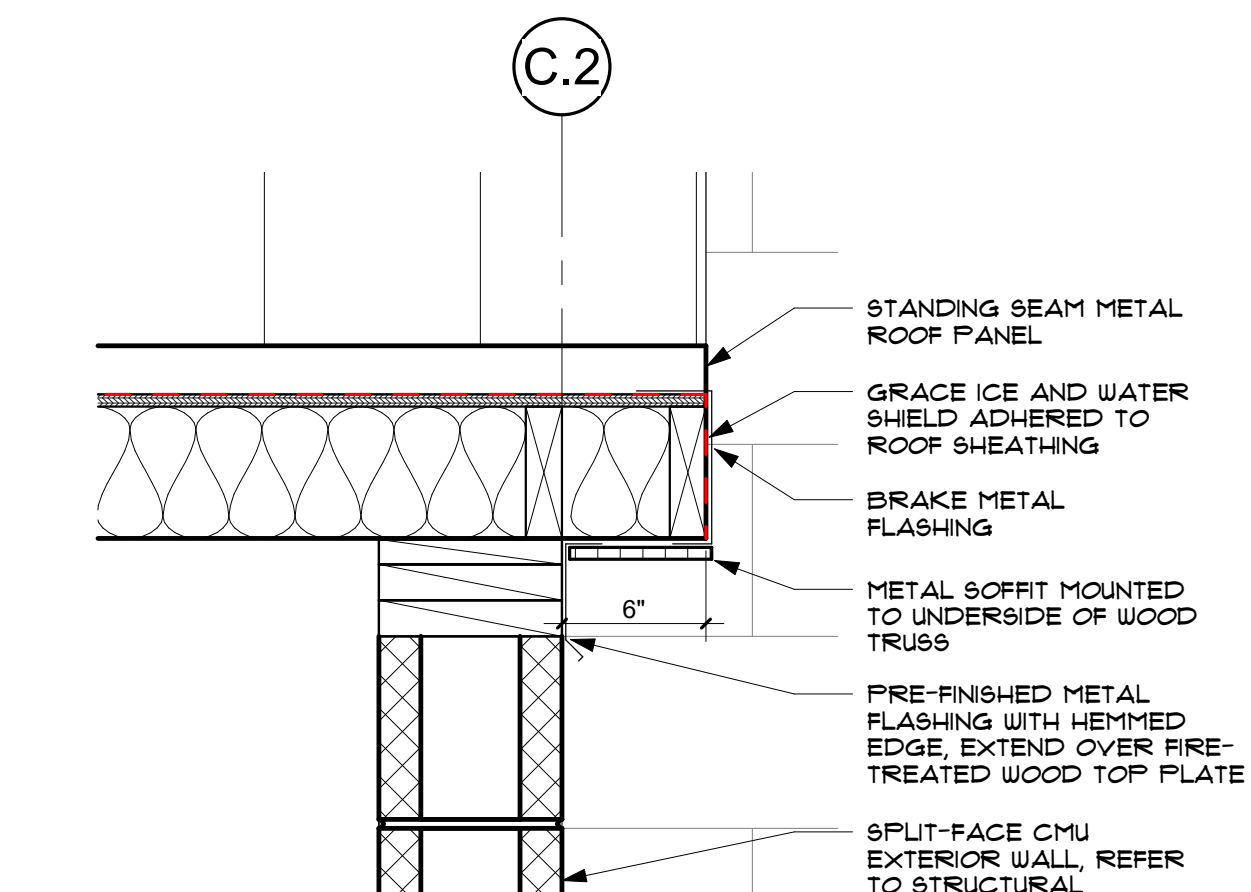
L SECTION DETAIL
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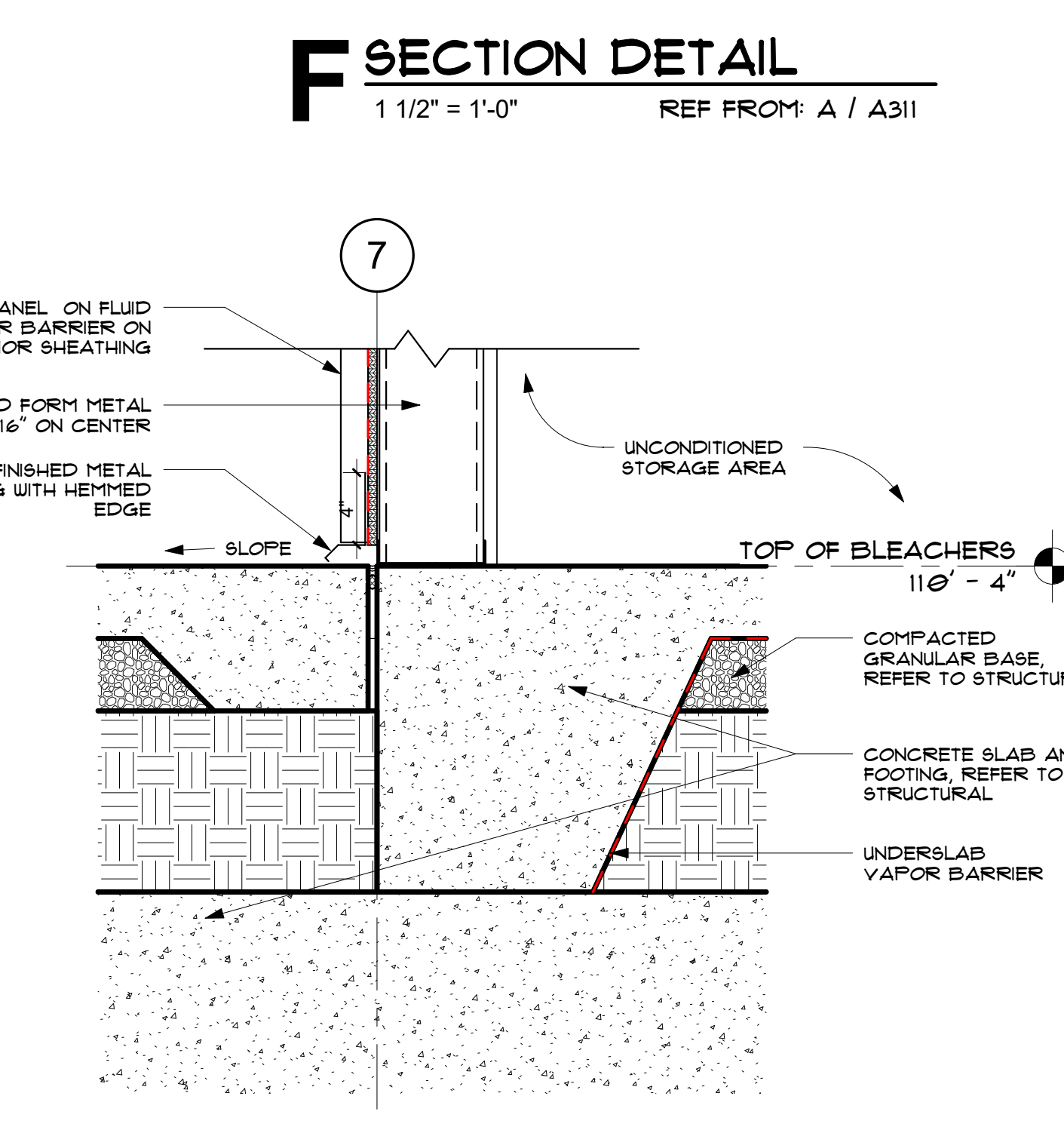
M SECTION DETAIL
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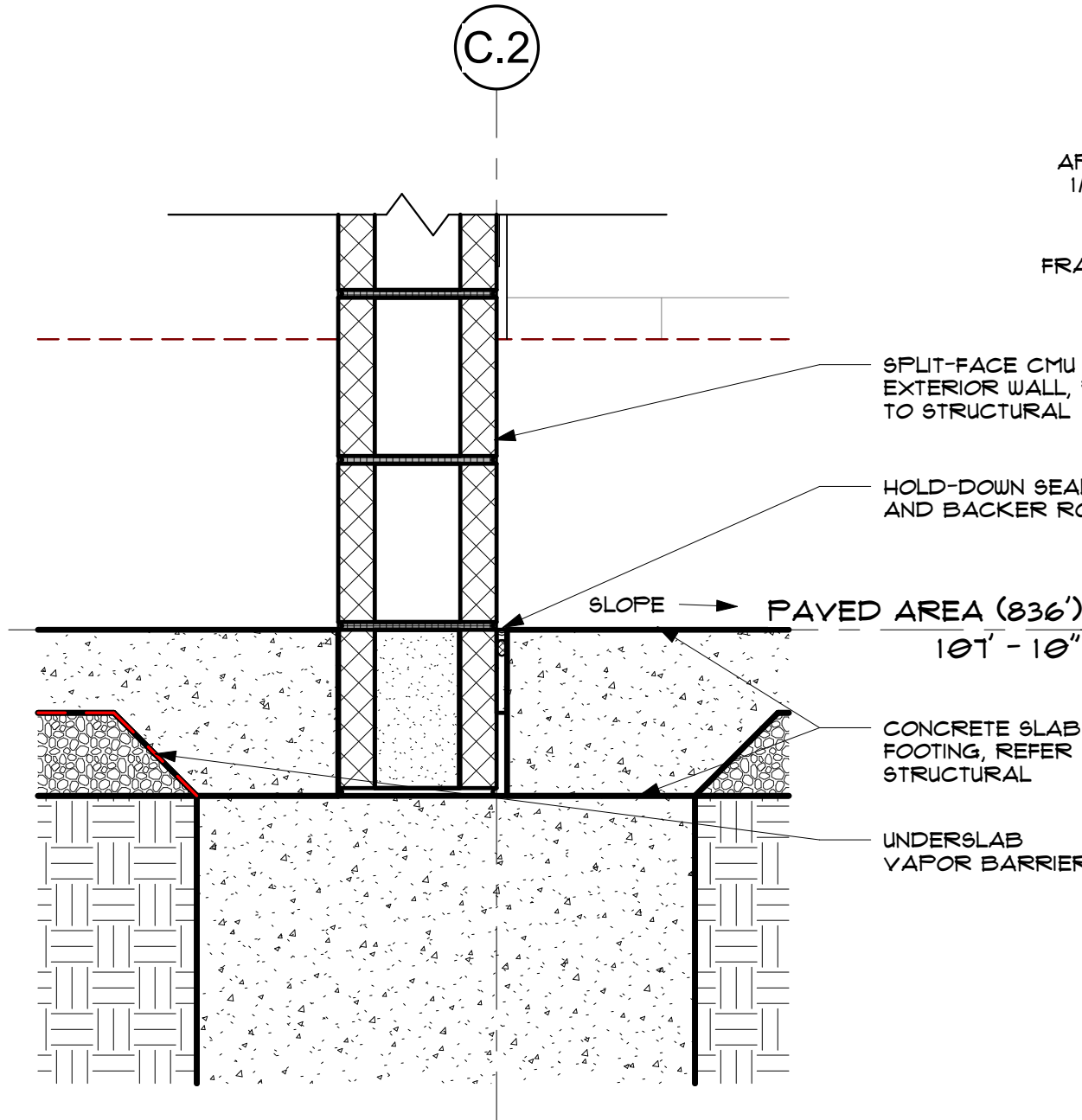
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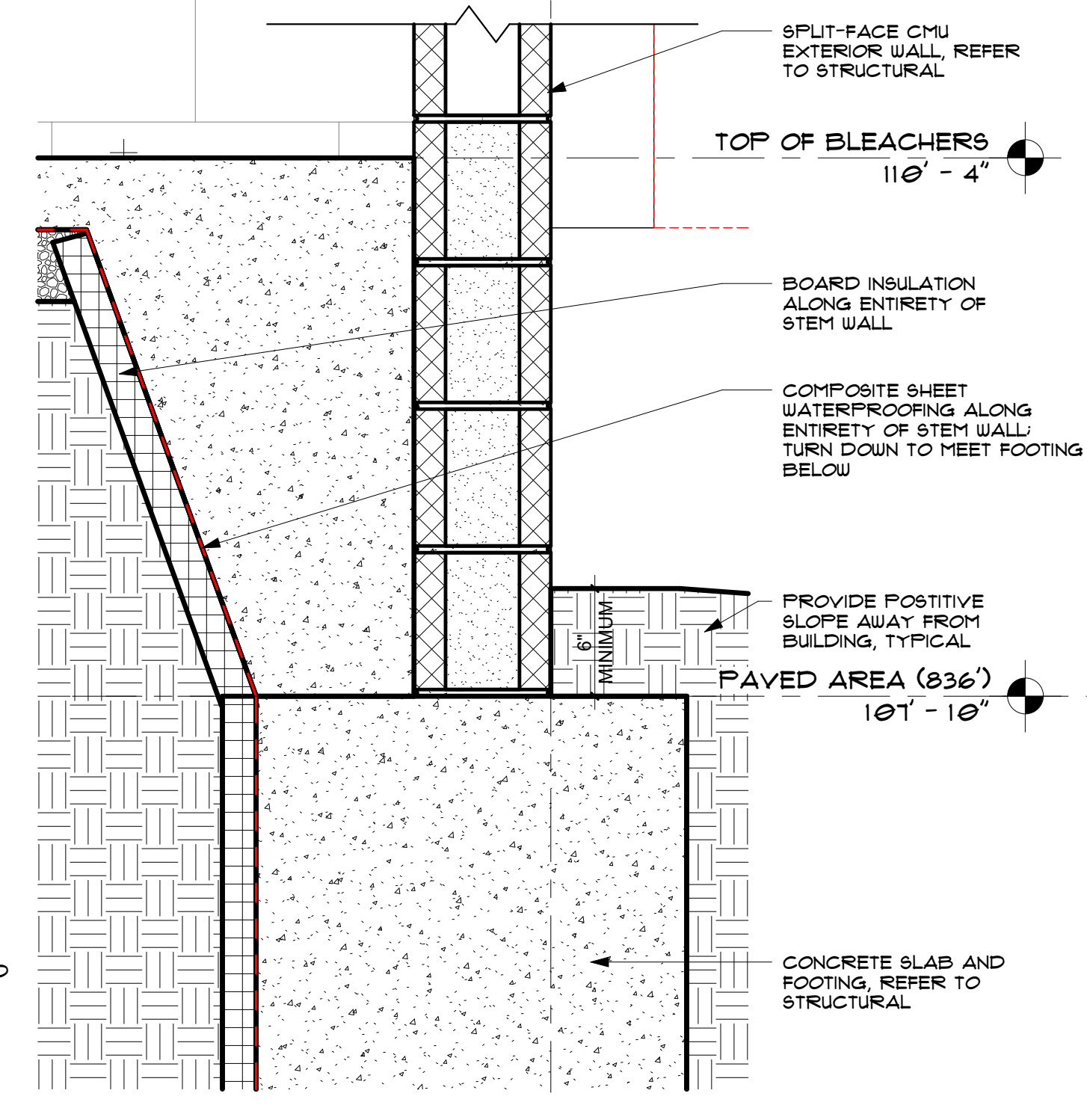
H SECTION DETAIL
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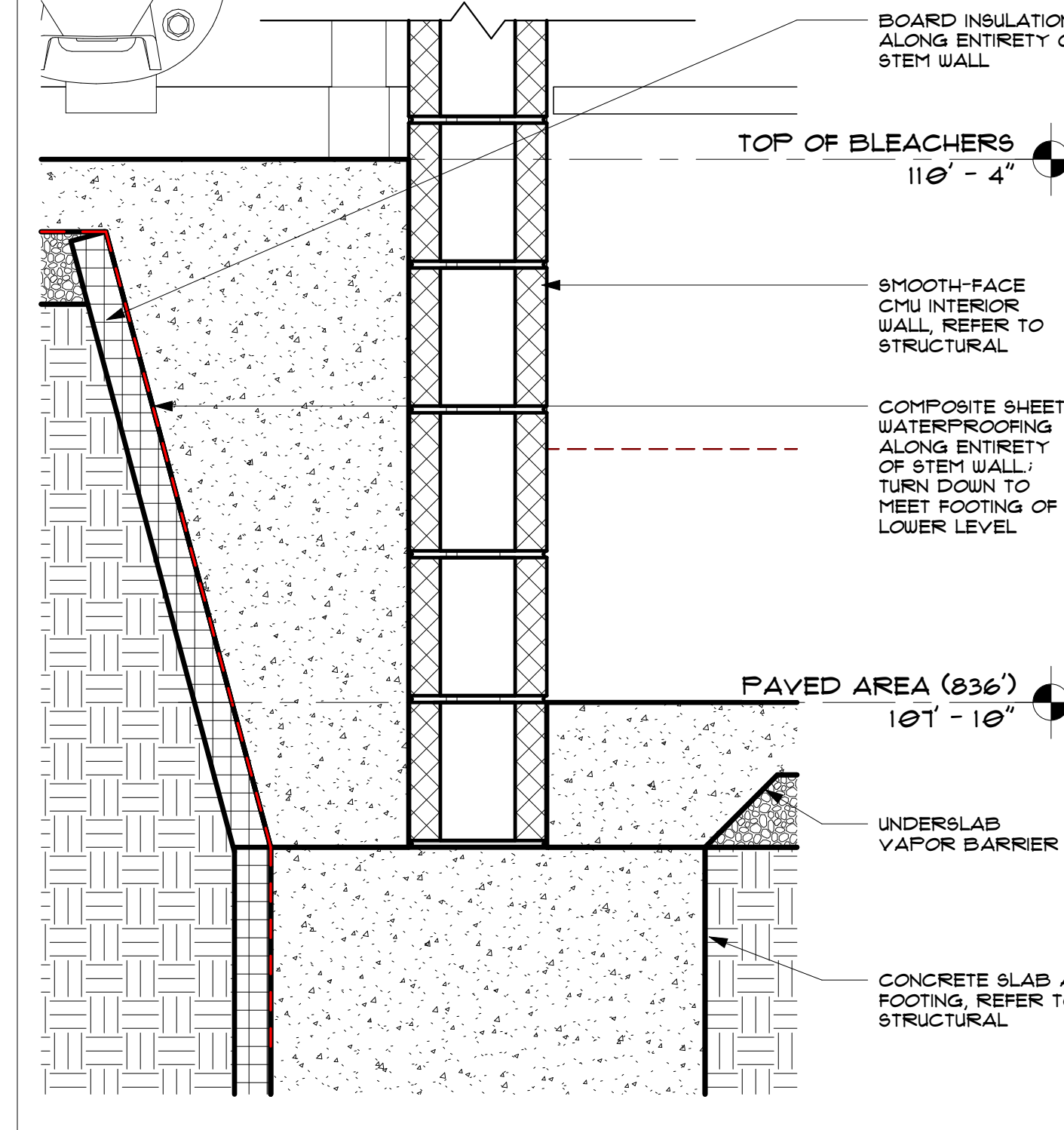
F SECTION DETAIL
1 1/2" = 1'-0"



C SECTION DETAIL
1 1/2" = 1'-0"

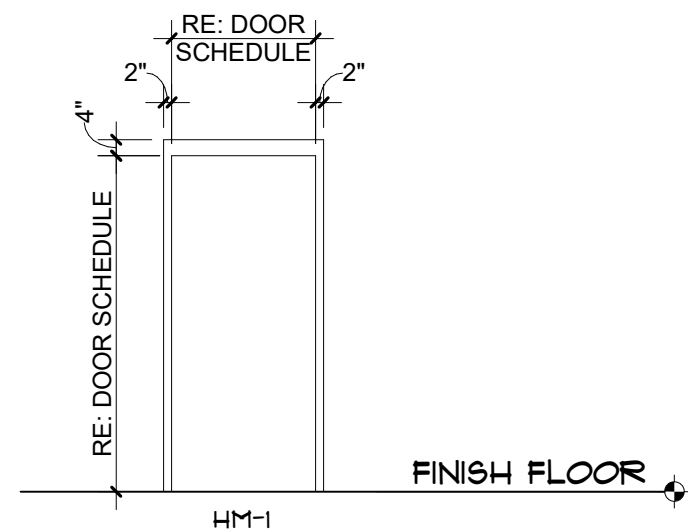
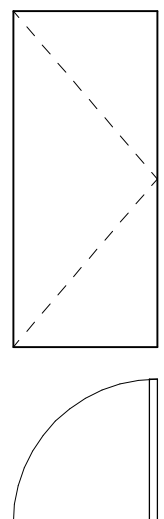
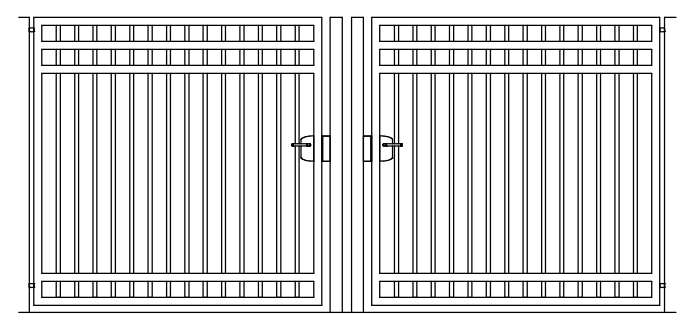


D SECTION DETAIL
1 1/2" = 1'-0"



E SECTION DETAIL
1 1/2" = 1'-0"

12/22/2023 9:51:22 PM



GI
GATE

AI
FLUSH
SINGLE

NOTE: REFER TO DOOR SCHEDULE FOR HEIGHT AND WIDTH DIMENSIONS

FRAME TYPES

NTS

DOOR SCHEDULE GENERAL NOTES

- SEE SPECIFICATIONS FOR HARDWARE GROUPS
- PAINT ALL HOLLOW METAL DOORS AND FRAMES, UNLESS NOTED OTHERWISE
- COORDINATE ALL DETAILS WITH PARTITION TYPES, INTERIOR / EXTERIOR FINISHES AND CEILING CONDITIONS AS INDICATED ON FLOOR PLANS, CEILING PLANS, AND OTHER DRAWINGS.
- ALL DOORS, FRAMES AND HARDWARE SHALL COMPLY WITH ACCESSIBILITY REQUIREMENTS, AS INDICATED.
- PROVIDE CONTINUOUS SEALANT AT JOINTS BETWEEN DOOR / LITE FRAMES AND ADJACENT SURFACES EACH SIDE OF ALL HEADS / JAMBS / SILLS AND AROUND THE BASE OF ALL DOOR FRAMES.
- ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE INSULATED WITH THERMAL BREAKS.
- ALL DECORATIVE FENCE GATES TO RECEIVE CANE BOLTS, CORE CONCRETE FOR PROPER USE

DOOR SCHEDULE ABBREVIATIONS

HM	HOLLOW METAL
PF	PRE-FINISHED
FR	PAIR

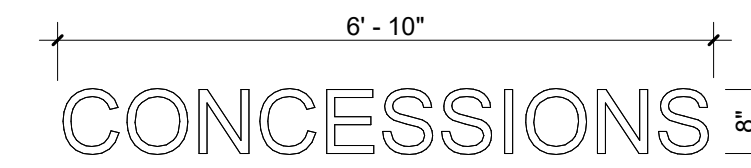
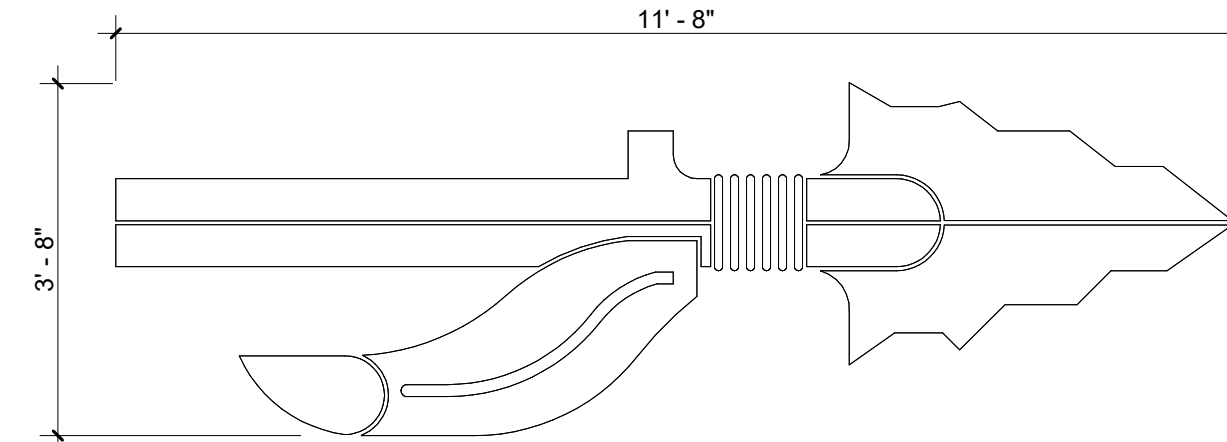
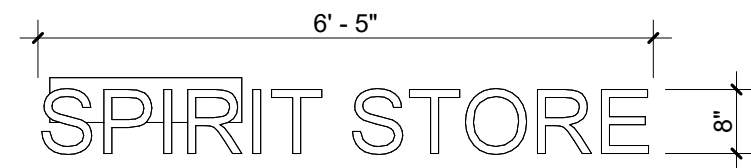
GLAZING TYPES

IG-1 1" INSULATED, SOLARBAN 61, SOLAR GRAY, TEMPERED LOW "E"

DOOR SCHEDULE

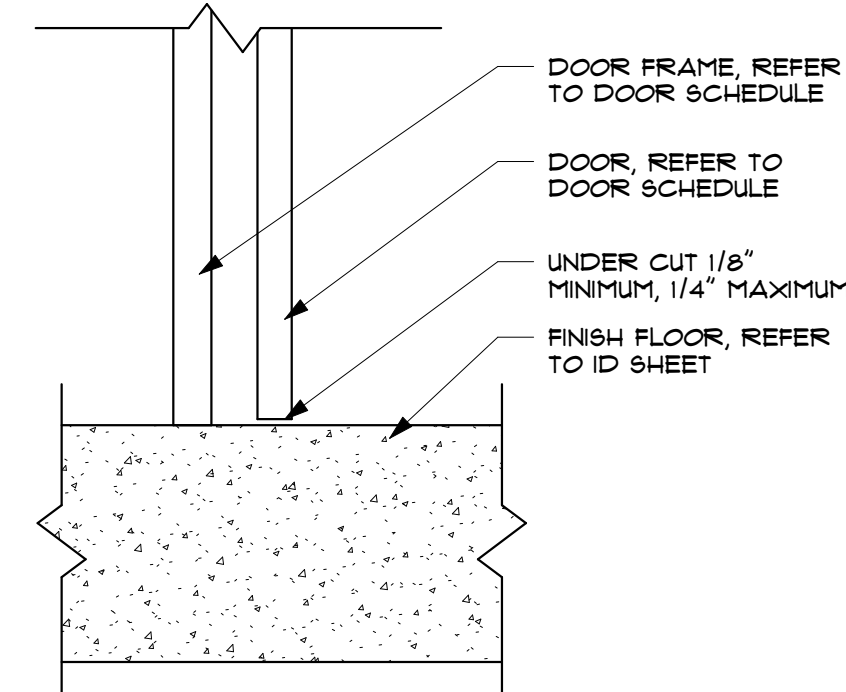
REV	DOOR NO.	ROOM	WIDTH	HEIGHT	TYPE	DOOR			FRAME			DETAILS		
						MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD	
	AI01	TICKET BOOTH	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI02	CONCESSION	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI03	WOMEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI04	MEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI05	WOMEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI06	MEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI07	WOMEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI08	MEN'S TOILET	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	AI09	SUITE	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	D/A611	E/A611	H/A611	
	AI10	ANNOUNCER	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	D/A611	E/A611	H/A611	
	AI11	COACH BOX	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	D/A611	E/A611	H/A611	
	GI12	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	GI13	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	GI14	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	GI15	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	GI16	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	GI17	PLAZA	1'-0"	6'-0"	GI	PRE-FABRICATED	PRE-FABRICATED	-	PRE-FABRICATED	PRE-FABRICATED	-	-	-	
	FI03	JANITOR	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	FI04A	SPIRIT STORE	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	F/A611	G/A611	H/A611	
	FI04B	SPIRIT STORE	3'-0"	7'-0"	AI	HM	PAINT	HM-1	HM	PAINT	J/A611	K/A611	H/A611	

- NOTE:
- EXTERIOR DOORS: HOLLOW METAL DOORS, DESIGN AND GRADE SELECTED BY OWNER
 - INTERIOR DOORS: HOLLOW METAL DOORS, DESIGN AND GRADE SELECTED BY OWNER, REFER TO FINISH SCHEDULE FOR MATERIALS.
 - THRESHOLD: FINISH TO MATCH DOOR HARDWARE
 - HARDWARE: SCHLAGE CYLINDRICAL CORE
 - DOOR FRAMES: ANSI 250.8, FOR LEVEL 116 GAGE, FACTORY PRIMED FOR FIELD FINISHING, FACE WELDED SEAMLESS WITH FILLED JOINTS.



Q SPIRIT STORE SIGNAGE

1/2" = 1'-0"

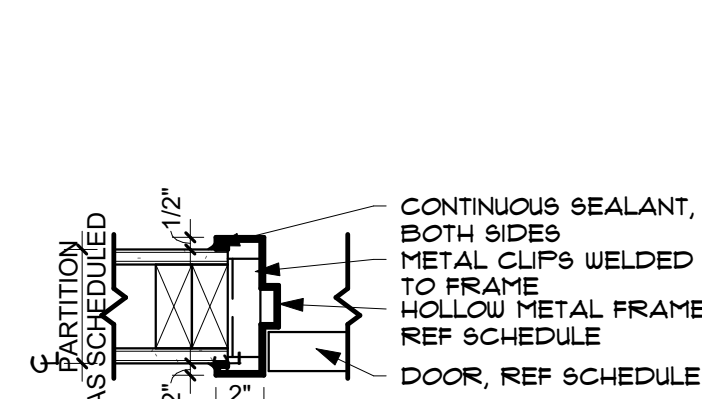


L INTERIOR DOOR THRESHOLD

1 1/2" = 1'-0"

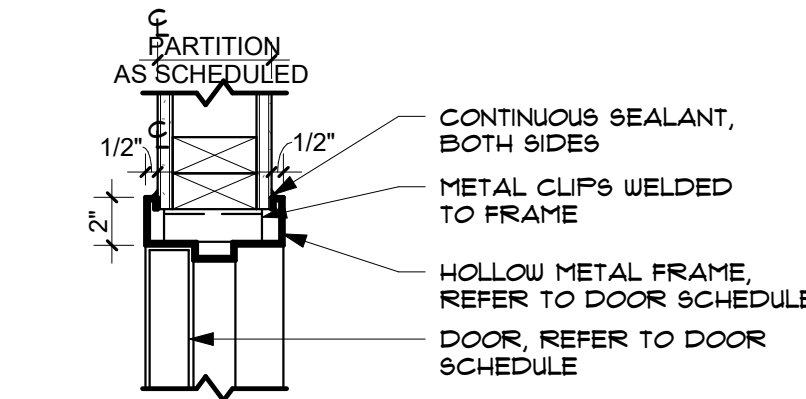
P SHS SIGNAGE

1/2" = 1'-0"



K DOOR INTERIOR - HM TYPICAL JAMB

1 1/2" = 1'-0"

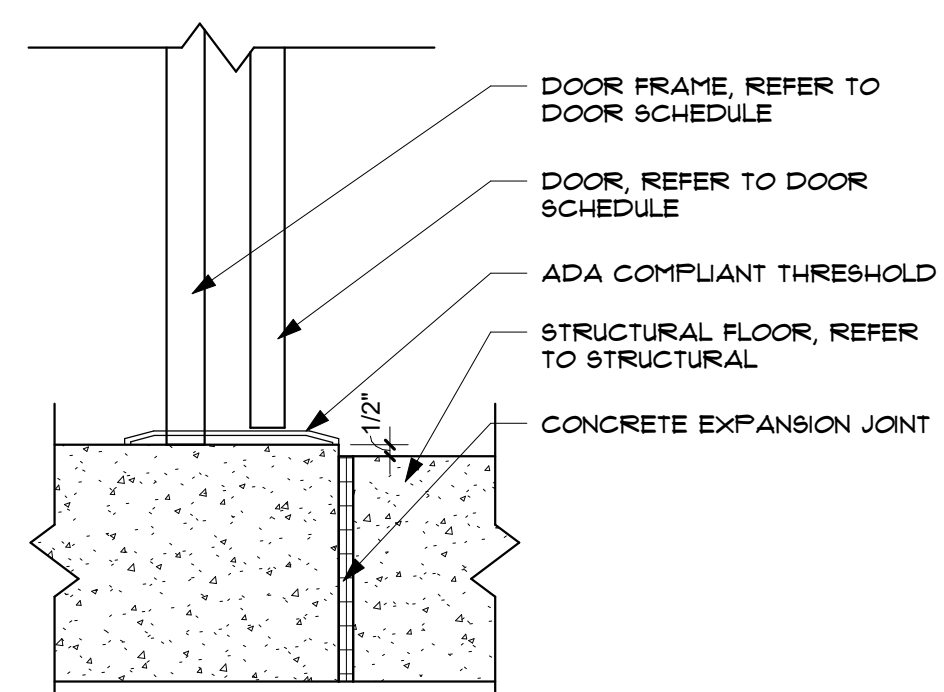


J DOOR INTERIOR - HM TYPICAL HEAD

1 1/2" = 1'-0"

N ARROWHEAD SIGNAGE

1/2" = 1'-0"

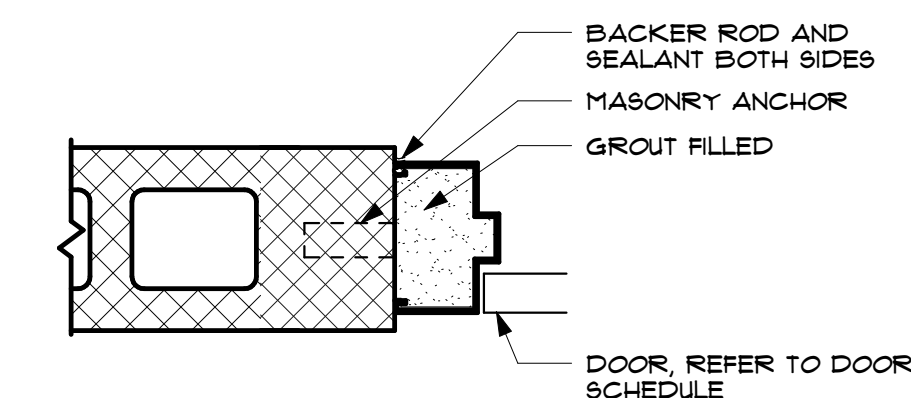


H EXTERIOR DOOR THRESHOLD

1 1/2" = 1'-0"

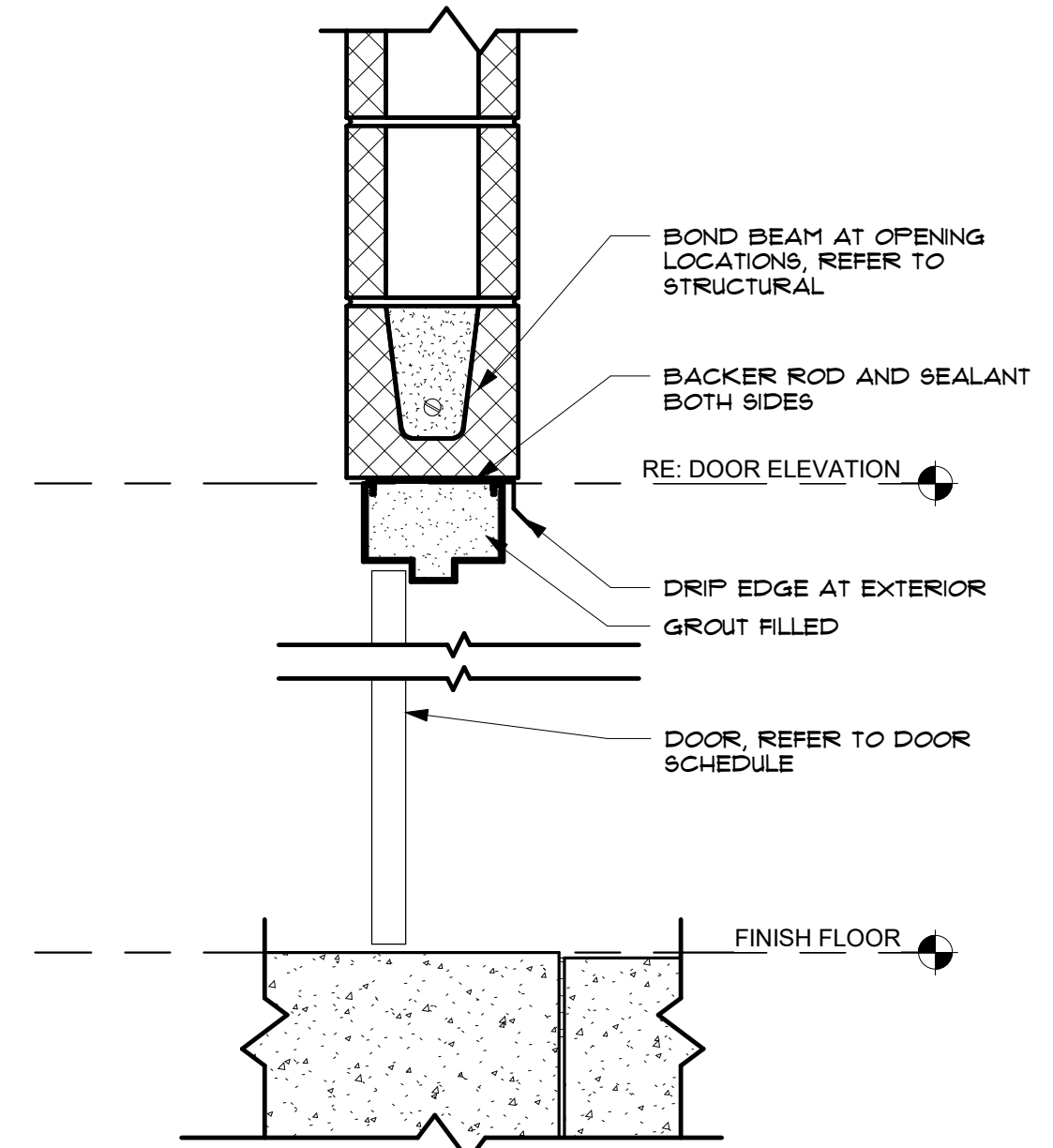
M CONCESSIONS SIGNAGE

1/2" = 1'-0"



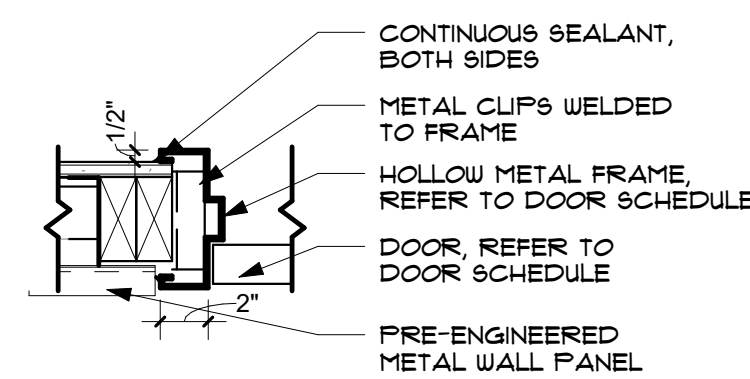
G DOOR JAMB AT CMU

1 1/2" = 1'-0"



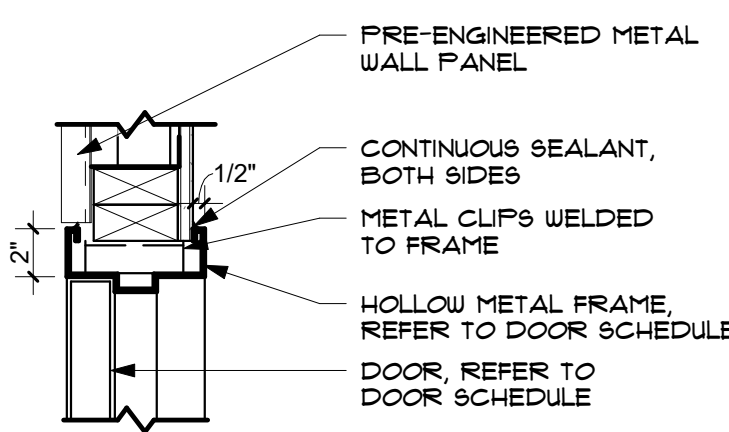
F DOOR HEAD & SILL AT CMU

1 1/2" = 1'-0"



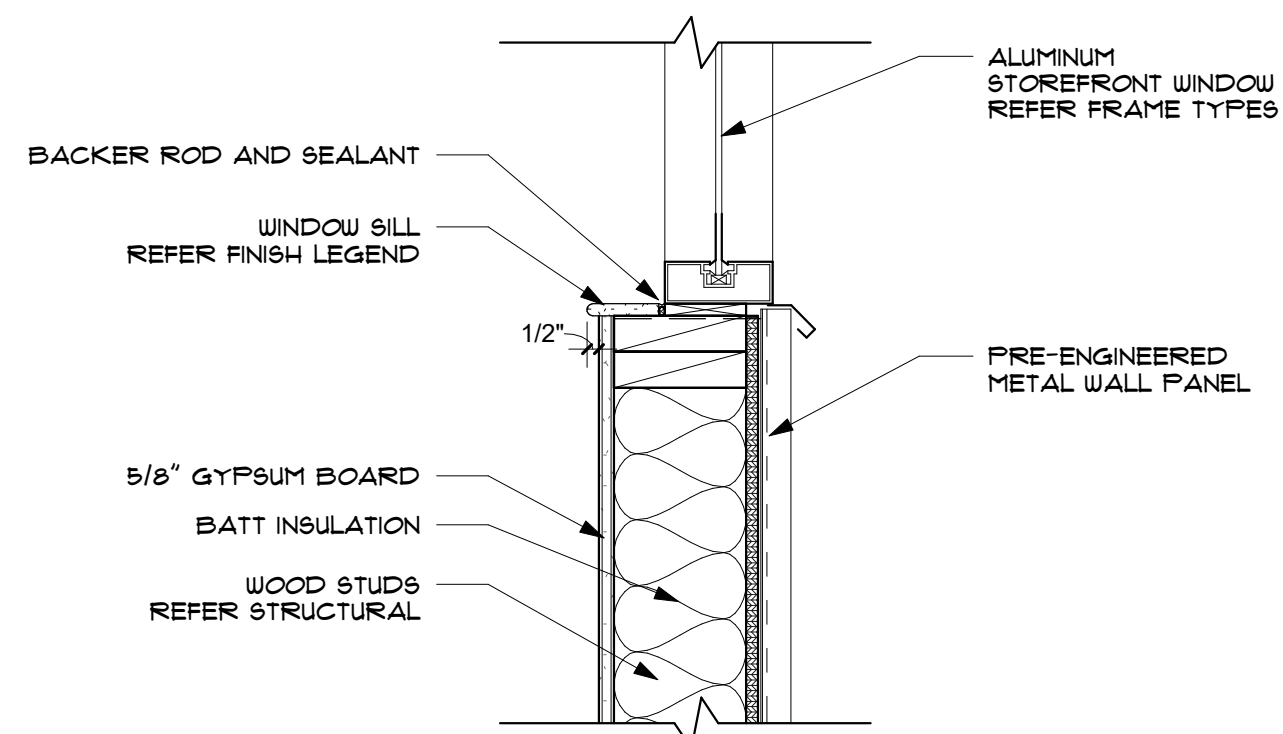
E DOOR EXTERIOR - HM TYPICAL JAMB

1 1/2" = 1'-0"



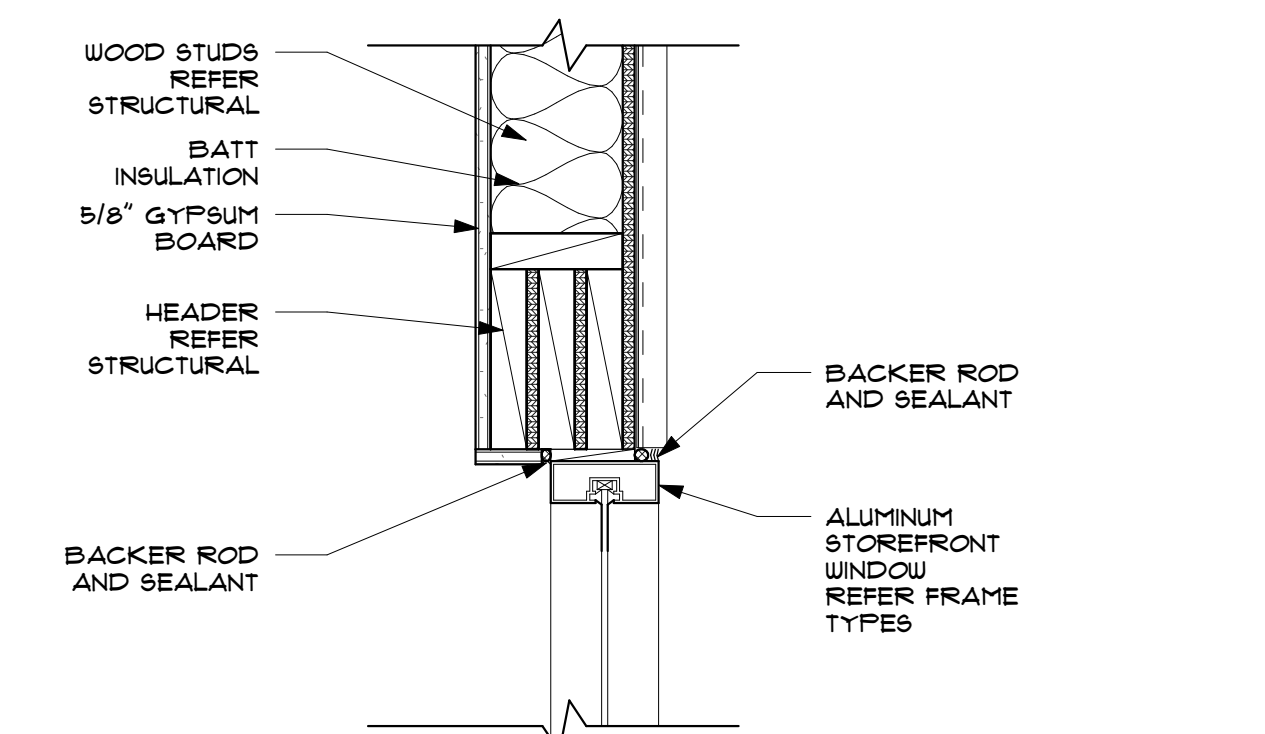
D DOOR EXTERIOR - HM TYPICAL HEAD

1 1/2" = 1'-0"



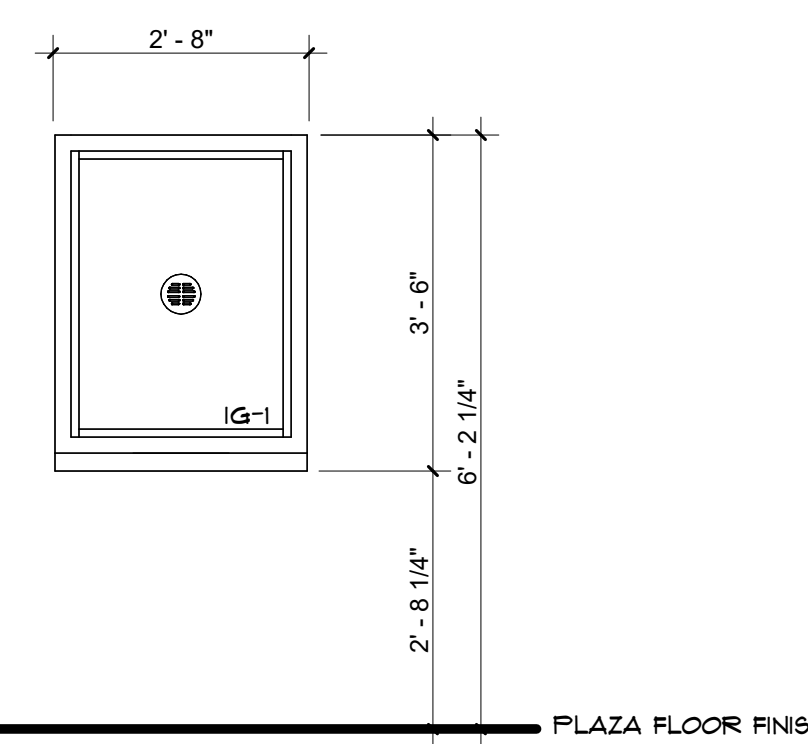
C TYPICAL WINDOW SILL DETAIL

1 1/2" = 1'-0"

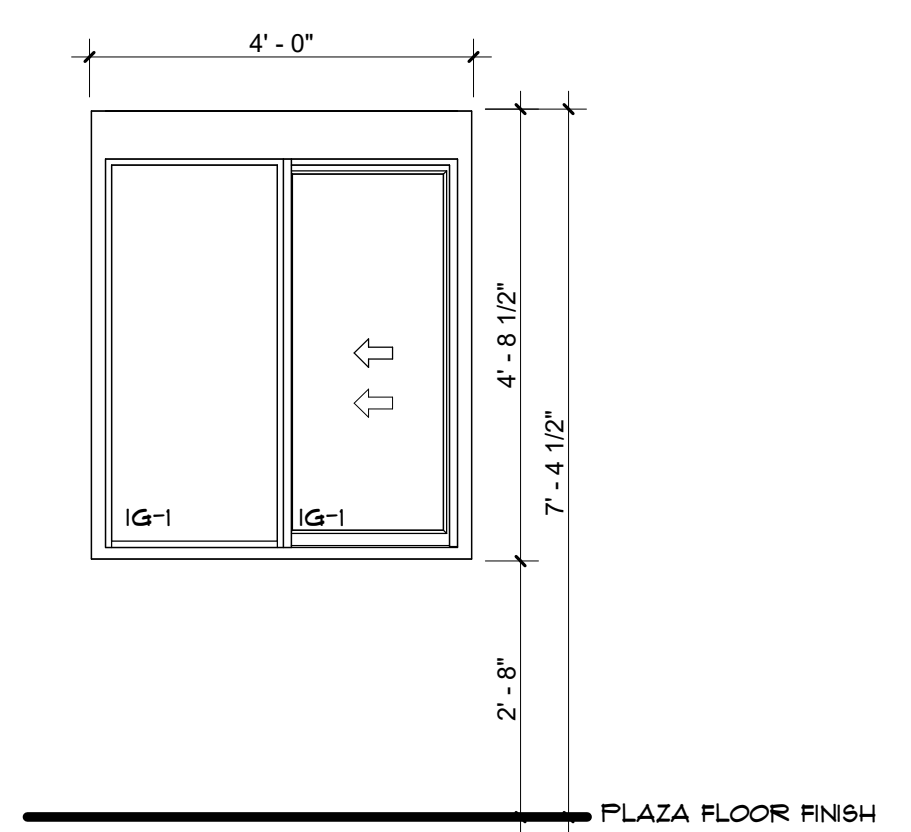


B TYPICAL WINDOW HEAD DETAIL

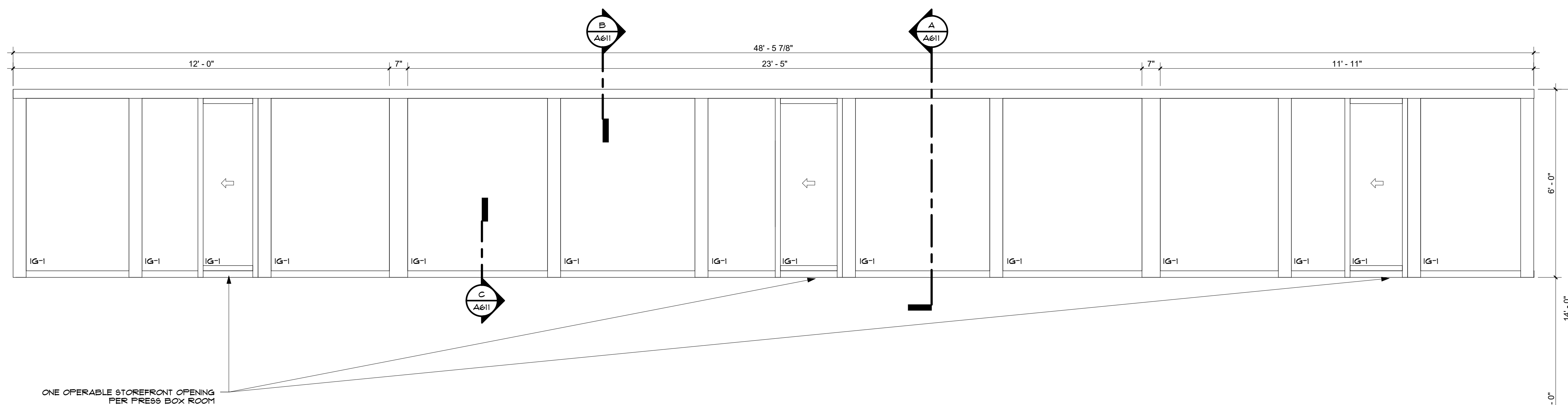
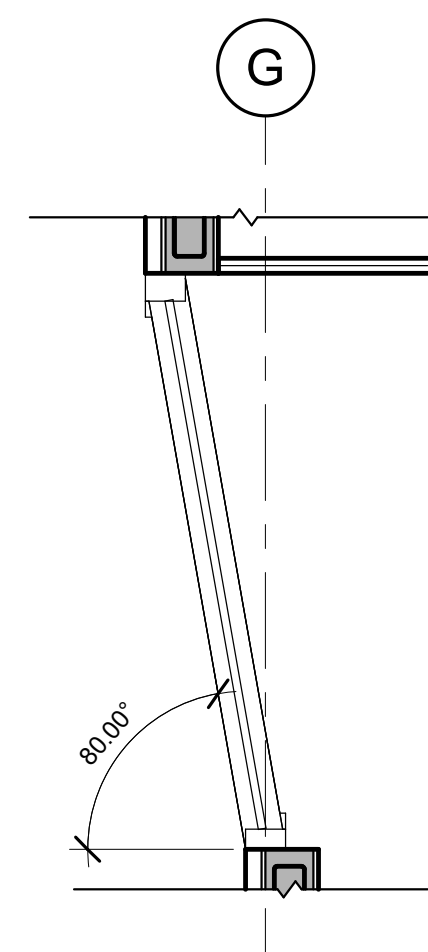
1 1/2" = 1'-0"



C



B



ONE OPERABLE STOREFRONT OPENING PER PRESS BOX ROOM

TOP OF BLEACHERS



20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

A611 DOOR SCHEDULE AND WINDOW DETAILS



BLUE RIVER PROJECT NUMBER:
20210121.35.05
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

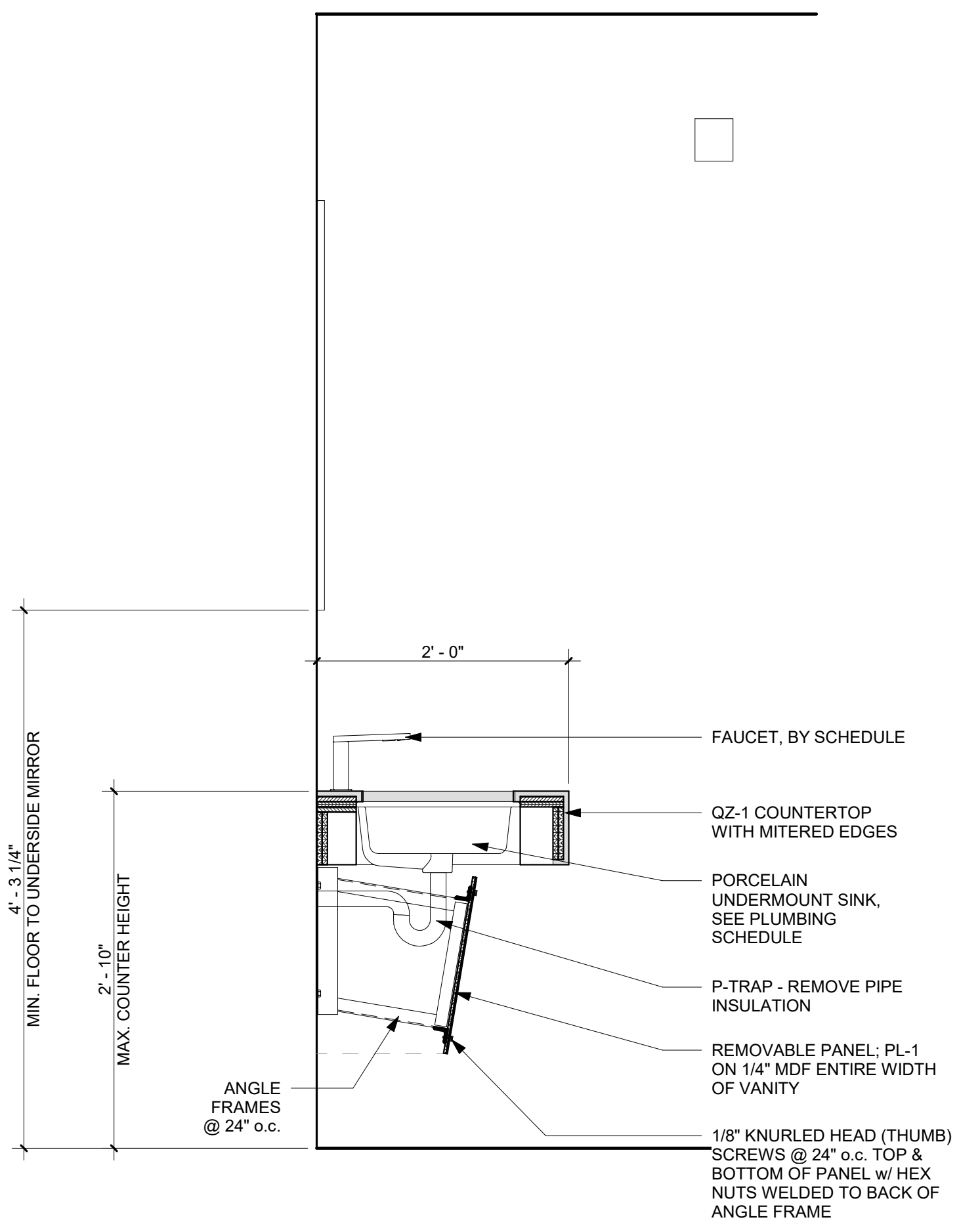
SHEET NAME:
DOOR SCHEDULE AND WINDOW DETAILS

SHEET NUMBER:
A611

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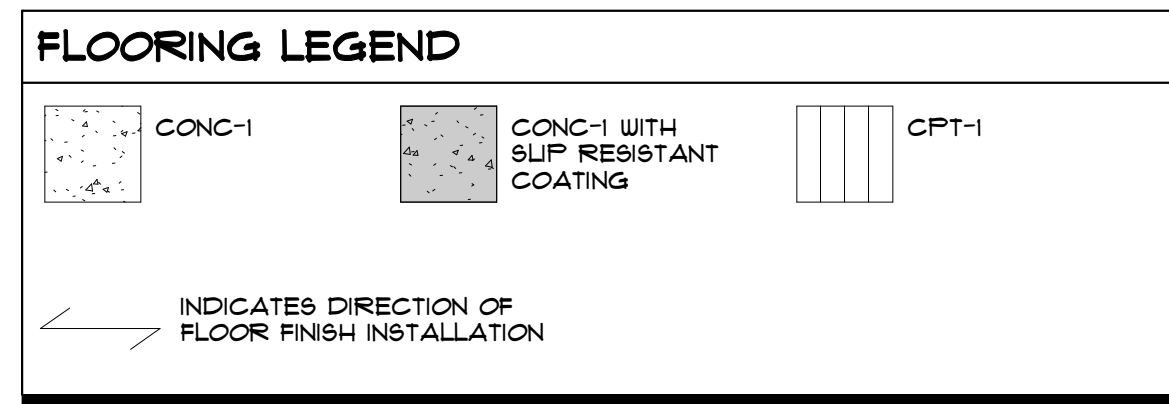
ROOM NUMBER	ROOM NAME	WALL FINISH				CEILING FINISH	COMMENTS
		FLOOR FINISH	BASE FINISH	NORTH WALL	EAST WALL		
191	WOMEN'S JAN.	CONC-1	RB-1			PT-3	
193	MEN'S CONCESSION	CONC-1	RB-1			PT-3	
200	JAN.	CONC-1	RB-1			PT-3	
202	JAN.	CONC-1	RB-1			PT-3	
205	WOMEN'S TICKET BOOTH	CONC-1	RB-1			PT-3	
A101	TICKET BOOTH	CONC-1	RB-1			PT-3	
A102	CONCESSION	CONC-1	RB-1			PT-3	
A103	JANITOR	CONC-1	RB-1			PT-3	
A104A	SPIRIT STORE	CONC-1	RB-1			PT-3	
A104B	STORAGE	CONC-1	RB-1			PT-3	
A105	WOMEN'S TOILET	CONC-1	RB-1			PT-3	
A106	MEN'S TOILET	CONC-1	RB-1			PT-3	
A107	WOMEN'S TOILET	CONC-1	RB-1			PT-3	
A108	MEN'S TOILET	CONC-1	RB-1			PT-3	
A109	SUITE	CONC-1	RB-1			PT-3	
A110	ANNOUNCER	CONC-1	RB-1			PT-3	
A111	COACH BOX	CONC-1	RB-1			PT-3	

FINISH LEGEND				
FLOOR FINISH	WALL FINISH	CEILING FINISH	MISCELLANEOUS	MISCELLANEOUS (CONT'D)
CONC-1 SEALED CONCRETE MANUF. SHERWIN WILLIAMS STYLE EGGSHHELL	PT-1 GENERAL WALL PAINT MANUF. SHERWIN WILLIAMS STYLE EGGSHHELL COLOR: SW7015 REPOSE GRAY	ACT-1 ACOUSTICAL CEILING TILE MANUF. CERTANTEED STYLE SYMPHONY M COLOR: WHITE SIZE: 24" X 48" GRID: SQUARE LAY-IN 15/16"	FRP-1 FIBERGLASS PANELS MANUF. SHERWIN WILLIAMS STYLE VALLEY FORGE ELM SIZE: 4' X 8" NOTE: PROVIDE COORDINATING TRIM PIECES	SB-1 SOLID SURFACE (COUNTER) MANUF. WILSONART PRODUCT: SOLID SURFACE COLOR: MASONED CONCRETE NOTE: ZOH
CONC-2 SUP RESISTANT SEALED CONCRETE	PT-2 DOOR FRAME PAINT (HM ONLY) MANUF. SHERWIN WILLIAMS STYLE SEMI-GLOSS COLOR: SW910 ACIER	ACT-2 CLEANABLE ACOUSTICAL CEILING TILE MANUF. CERTANTEED STYLE VINTAGE A COLOR: WHITE SIZE: 24" X 48" GRID: 15/16", WHITE	FL-1 PLASTIC LAMINATE MANUF. WILSONART STYLE VALLEY FORGE ELM 823K-19	TP-1 TOILET PARTITION MANUF. SCRANTON PARTITIONS STYLE ECLIPSE PARTITIONS COLOR: SHALE, ORANGE PEEL TEXTURE
CPT-1 CARPET TILE MANUF. PATCRAFT STYLE TRANSLUCENT COLOR: GLAZE SIZE: 24" X 24" INSTALL: QUARTER-TURN	WT-1 WALL TILE MANUF. DALTILE STYLE SYNCRONIC COLOR: 8733 GRAY SIZE: 12" X 24" INSTALL: MONOLITHIC INSTALL WET WALLS ONLY	PT-3 GYPSUM CEILING PAINT MANUF. SHERWIN WILLIAMS STYLE FLAT COLOR: SW711 HIGH REFLECTIVE WHITE NOTE: MOISTURE RESISTANT GYPSUM AT RESTROOMS	ST-1 STAIN COLOR: TO MATCH FL-1	
BASE FINISH			GZ-1 QUARTZ STONE (COUNTER) MANUF. WILSONART PRODUCT: QUARTZ COLOR: URBAN CLOUD	
RB-1 RESILIENT BASE MANUF. TARKET STYLE 4" STANDARD COVE COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL RANGE				



H **YVANITY SECTION**
1" = 1'-0"

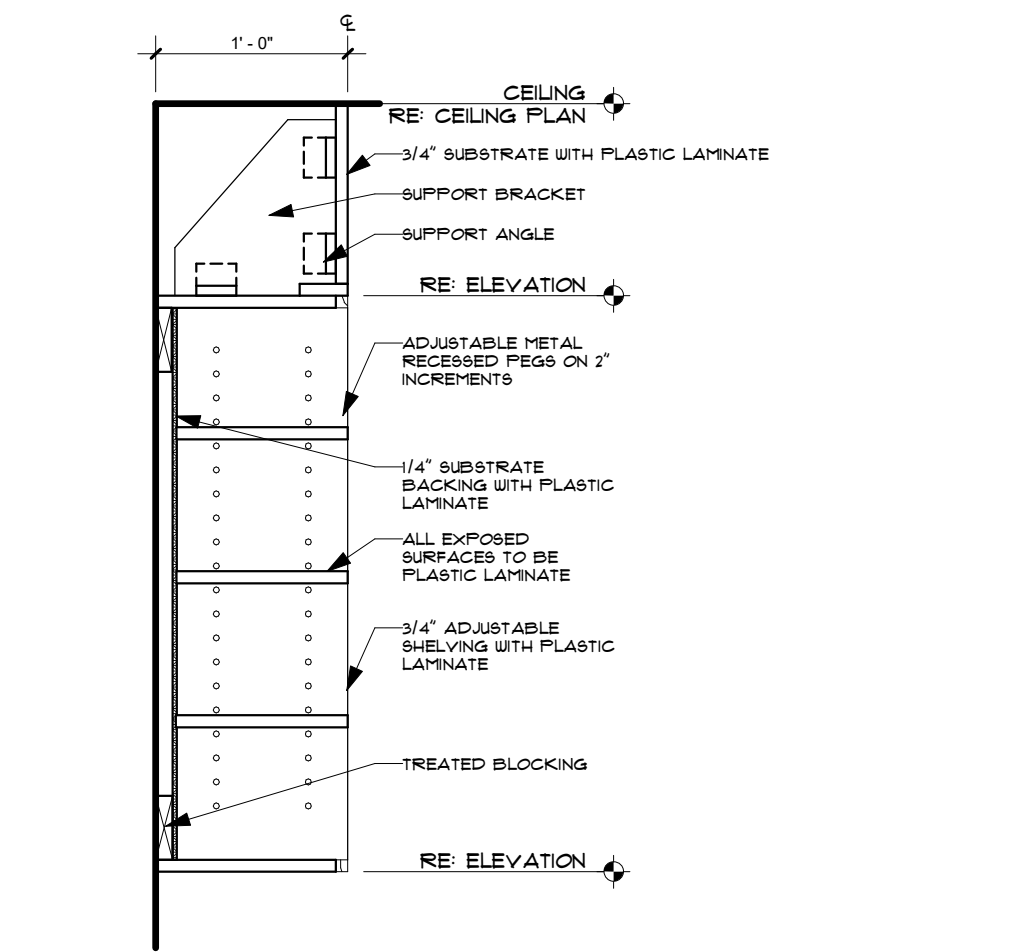
- FINISH NOTES**
- REFER TO ROOM FINISH SCHEDULE ON AXXXX FOR ADDITIONAL INFORMATION AT NON-ELEVATED AREAS.
 - REFER TO DESIGN SELECTION SUMMARY FOR FINISH SPECIFICATIONS.
 - REFER TO SHEET IDXXX FOR TRANSITION DETAILS.
 - PROVIDE THRESHOLD AT TRANSITION FROM WET AREAS.



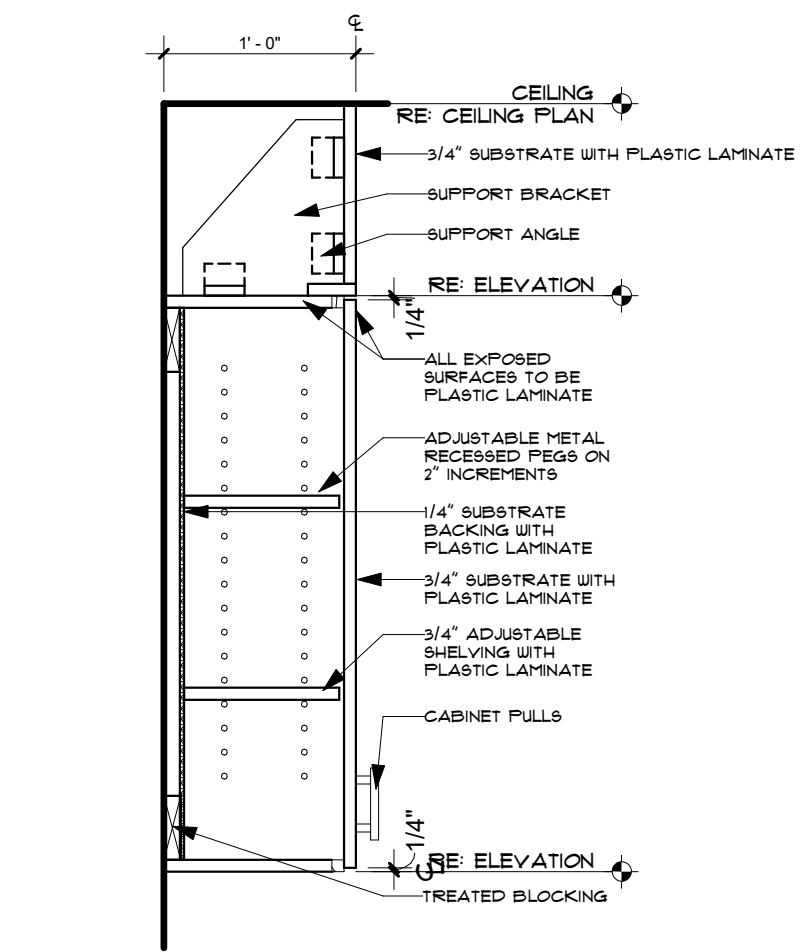
- FINISH FLOOR PLAN GENERAL NOTES**
- ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN LEAD, CADMIUM OR ASBESTOS.
 - RECYCLE ALL ELIGIBLE FINISH MATERIALS PER MANUFACTURER'S RETURN OR RECLAMATION PROGRAM.
 - REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION AT NON-ELEVATED AREAS.
 - PROVIDE FULL HEIGHT CORNER AND END-WALL GUARDS AT OUTSIDE GYPSUM BOARD CORNERS.
 - WALL FINISHES TO HAVE MINIMUM CLASS "A" RATING FOR FLAME SPREAD AND SMOKE DEVELOPMENT.
 - FINISH MATCHES AND PATTERNS ARE FOR GRAPHIC PURPOSES ONLY, AND ARE NOT INTENDED TO SHOW EXACT PATTERN OR SIZES OF FINISHES.
 - PROVIDE TILE BACKER BOARD AT ALL WALLS SHOWN TO RECEIVE TILE.
 - PROVIDE SEALANT AT ALL TILE INSIDE CORNERS AND AT DOOR FRAMES. COLOR TO MATCH ADJACENT GROUT COLOR.
 - PROVIDE WINDOW SILLS (95-1) AT ALL NON-GYP FRAMED WINDOWS, UNLESS NOTED OTHERWISE.

- TILE**
- AT ALL WALLS TO RECEIVE TILE: INSTALL TILE PATTERN CENTERED ON EACH MAIN WALL.
 - "LEVEL LINE" OF TILE INSTALLATION TO BE TAKEN AT THE LOW POINT OF THE FLOOR SLAB TO ALLOW TILE TO BE FLUSH WITH VARIATION IN FLOOR SLAB.
 - USE SCHLUTER QUIADEC TRANSITION STRIP FOR ALL OUTSIDE CORNERS OF TILE CONDITIONS AND UNFINISHED EXPOSED EDGES OF TILE INSTALLATION. MITER OUTSIDE CORNERS OF TRIM. BUTT JOINTS ARE NOT ALLOWED.
 - FINISH: SATIN NICKEL.
 - TILE JOINTS TO MATCH GROUT COLOR. RE: SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL TILE AT WALLS WITH FULL PIECE AT FLOOR; CUTS TO OCCUR AT CEILING IF NEEDED, UNLESS NOTED OTHERWISE.
- PAINT**
- ALL GYPSUM BOARD WALLS TO BE PAINTED PT-1, UNLESS NOTED OTHERWISE.
 - DOOR FRAMES TO BE PT-2, UNLESS NOTED OTHERWISE.
 - ALL ELECTRICAL PANEL DOORS, AND WALL AND CEILING GRILLES ARE TO HAVE A FINISH TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE.
 - SWITCH PLATES AND ELECTRICAL DEVICES ARE NOT TO BE PAINTED.
- FLOORING**
- CHANGES IN FLOORING HEIGHTS UP TO 1/4 INCH MAY BE VERTICAL AND WITHOUT REDUCING EDGE TREATMENT. CHANGES IN FLOORING HEIGHTS BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. IF CHANGES IN FLOORING LEVEL ARE GREATER THAN 1/2 INCH, NOTIFY ARCHITECT FOR DETAILS TO PROVIDE ADA COMPLIANT RAMP.
 - ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOORS, UNLESS NOTED OTHERWISE.
 - PROVIDE STAINLESS STEEL SCHLUTER TRANSITION STRIP BETWEEN CHANGE IN FLOOR SURFACE, UNLESS NOTED OTHERWISE.
 - PROVIDE THRESHOLD AT TRANSITION FROM WET AREAS.

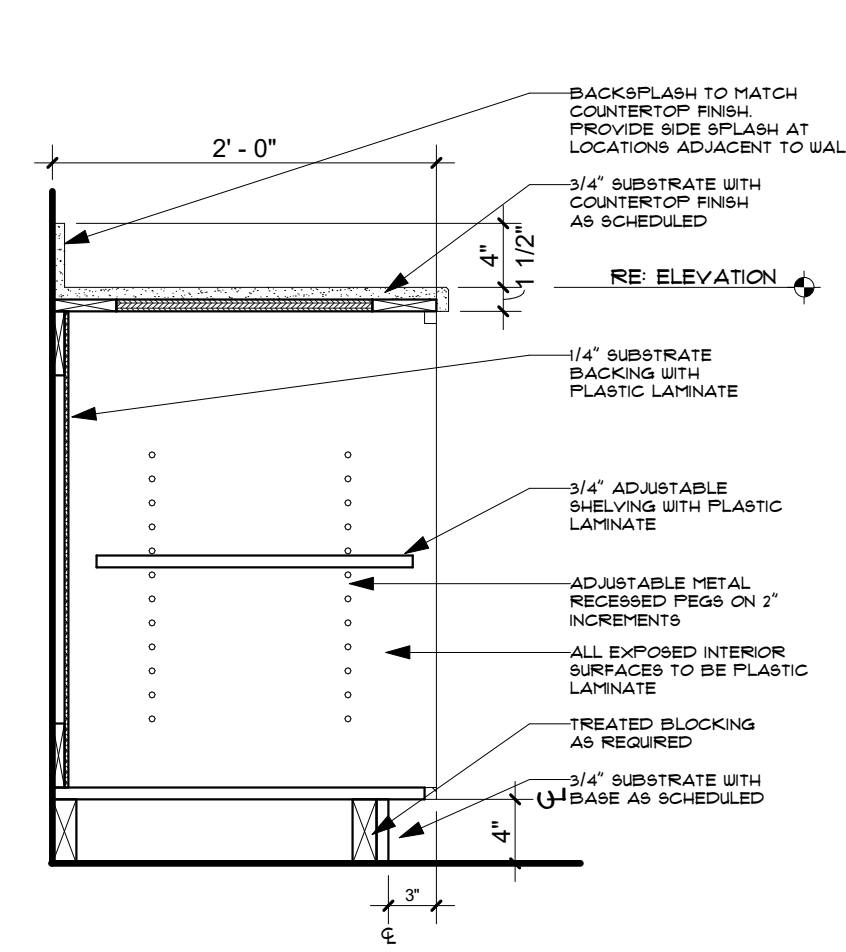
- CASEWORK**
- CONTRACTOR TO FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF CASEWORK.
 - REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR EXACT LOCATIONS OF CASEWORK.
 - COUNTERTOPS AND BACKPLASHES TO RECEIVE CLEAR SEALANT AT WALL.
 - PROVIDE SIDE, TOP, AND BOTTOM FILLER PIECES AS REQUIRED TO COMPLETE THE CASEWORK, AS INDICATED ON THE PLANS AND INTERIOR ELEVATIONS.
 - PROVIDE COORDINATING FINISHED END PANELS AT ALL EXPOSED CABINET ENDS, KNEE SPACES, AND BANQUETTE ENDS.
 - PROVIDE FILLER STRIPS TO MATCH ADJACENT CABINETS AT ALL NOTED LOCATIONS. MAXIMUM FILLER WIDTH 3 INCHES.



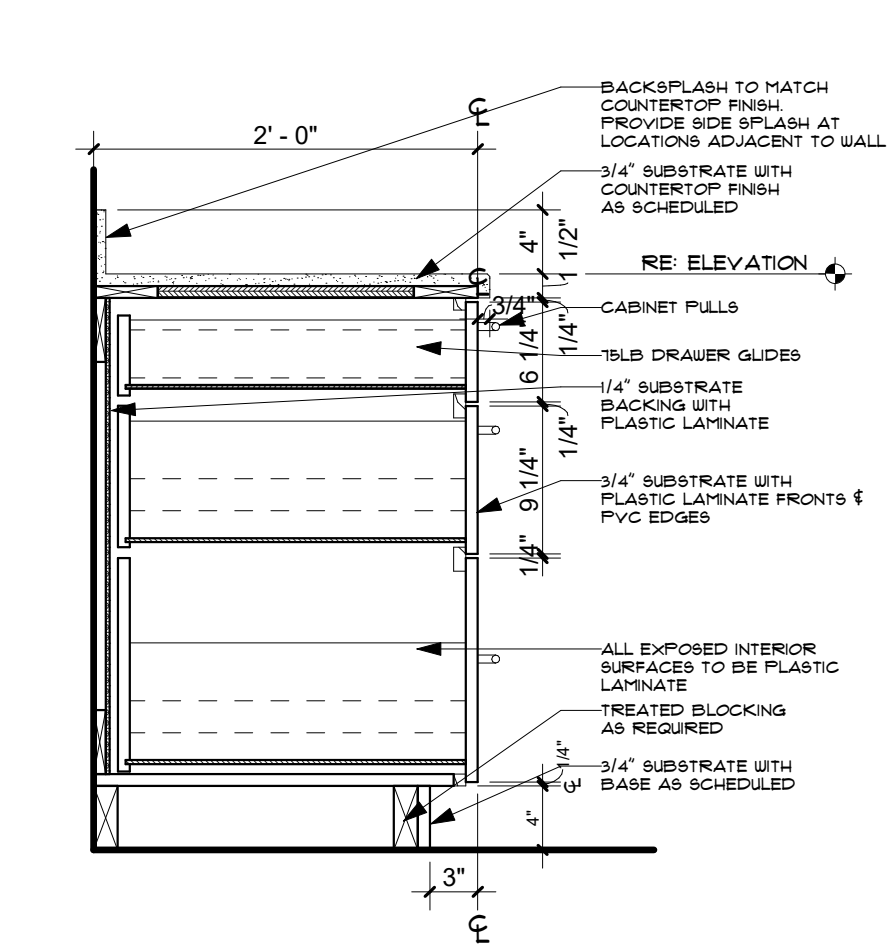
G **UPPER OPEN SHELVING**
1" = 1'-0"



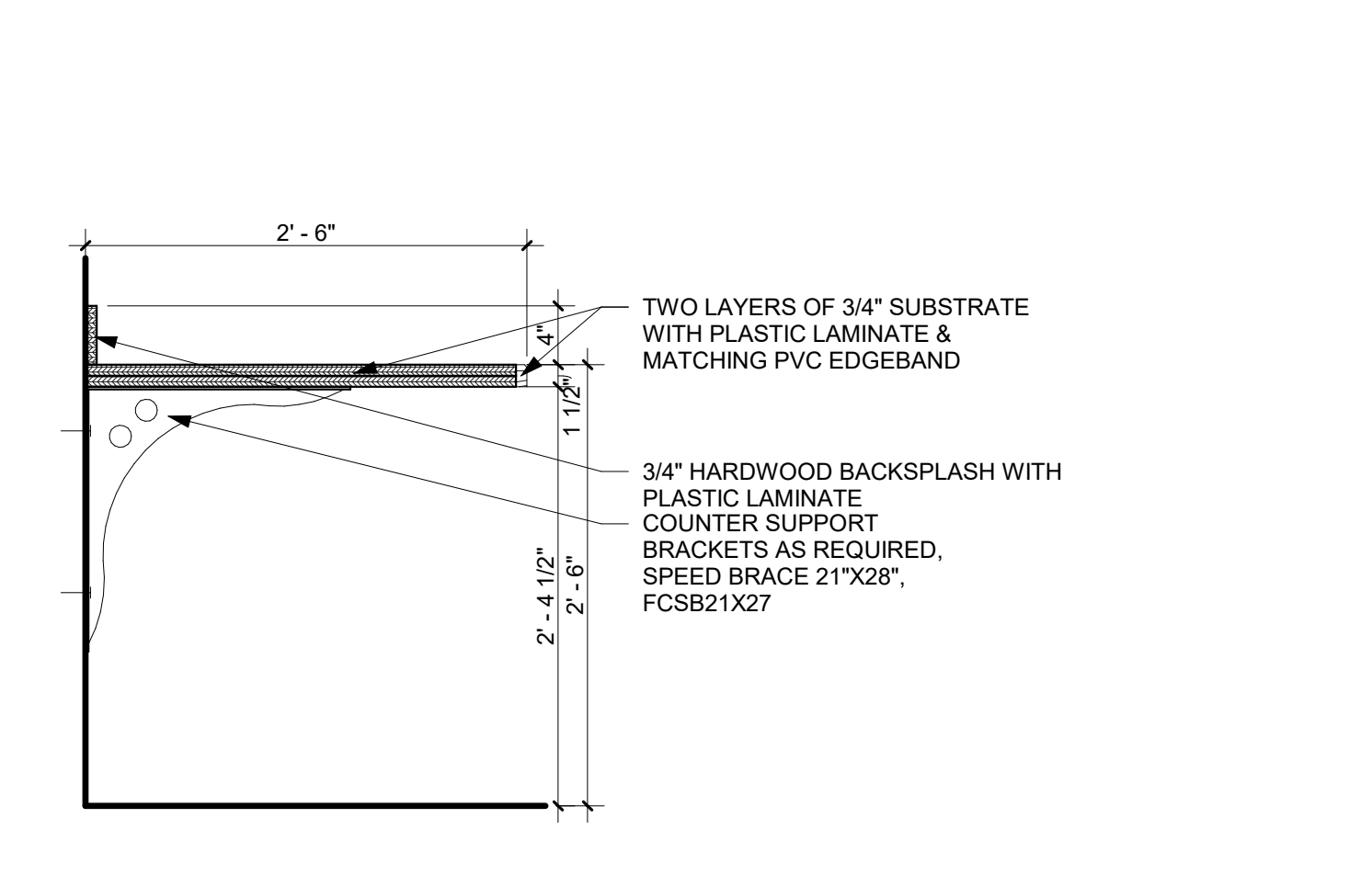
F **UPPER CABINET**
1" = 1'-0"



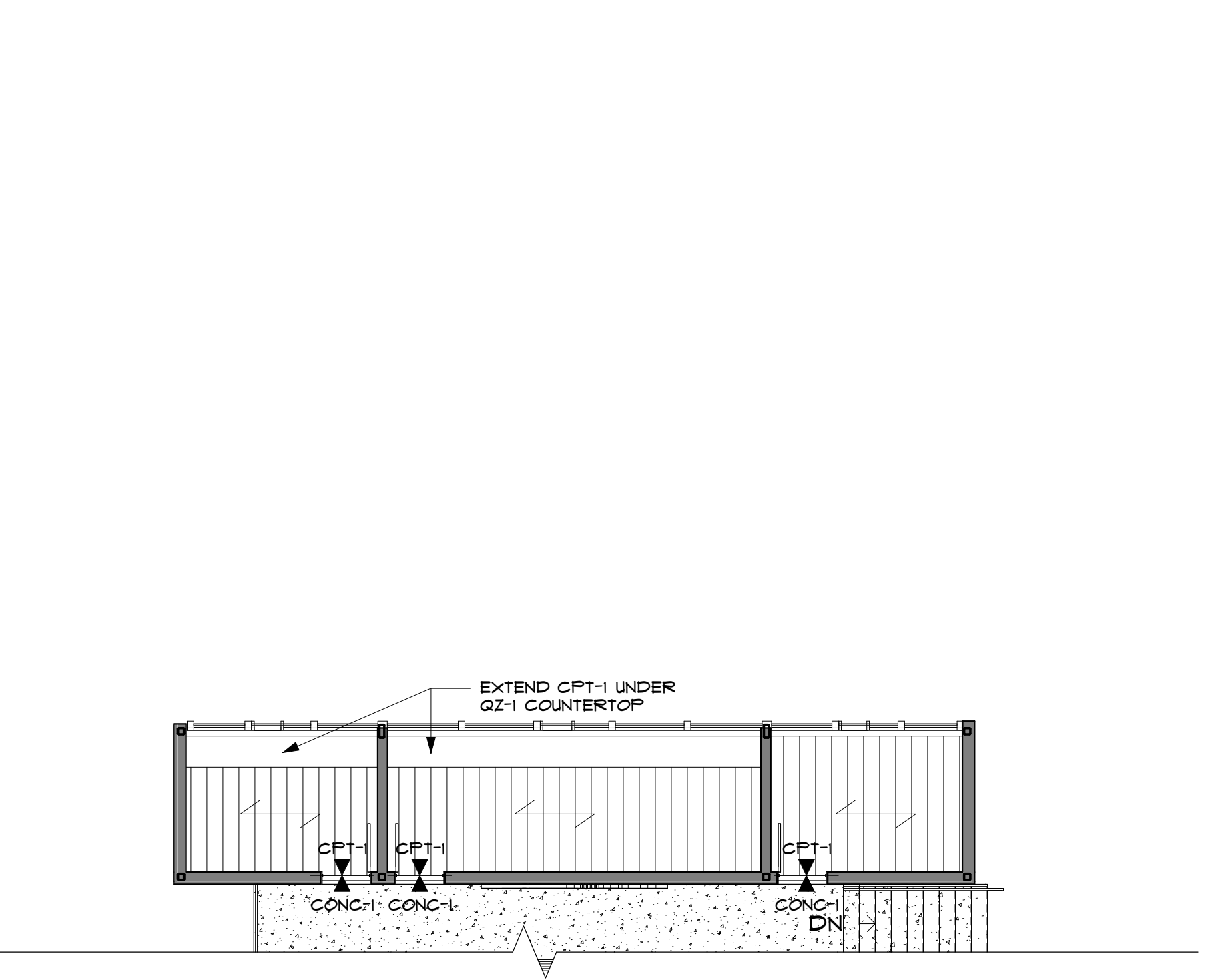
E **BASE SHELVES**
1" = 1'-0"



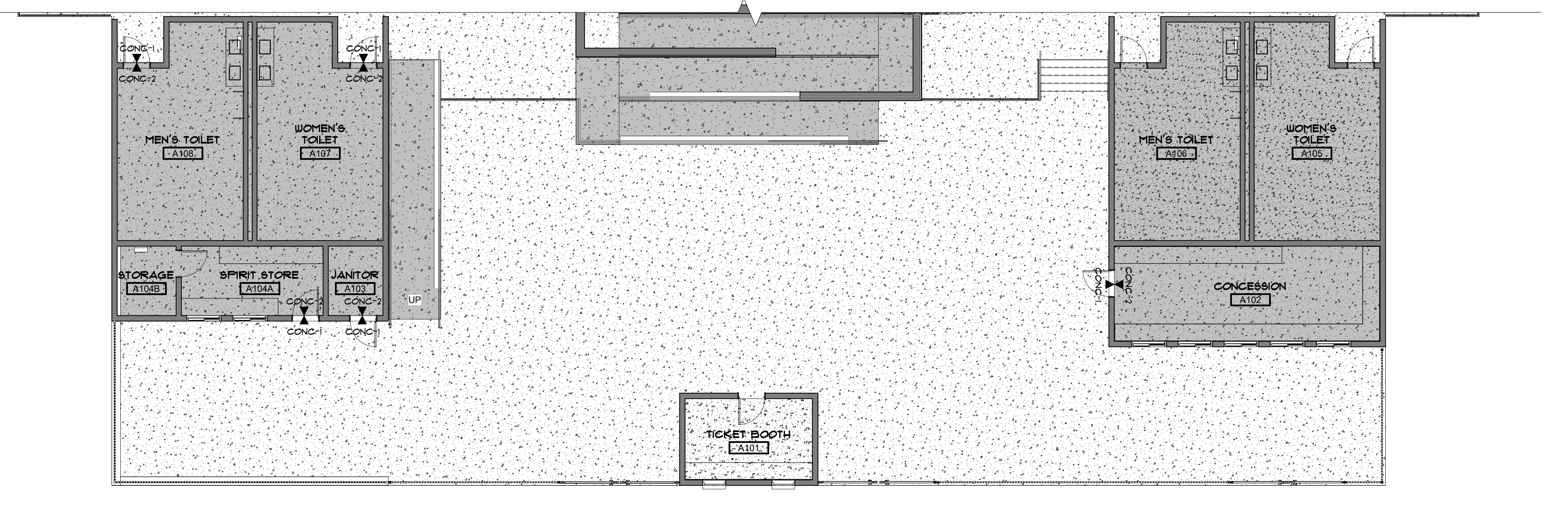
D **3 DRAWERS**
1" = 1'-0"



C **CASEWORK - TYPICAL WORK COUNTER**
1" = 1'-0"



B **PRESS BOX FINISH FLOOR**
1/8" = 1'-0"



A **PAVED AREA (836') FINISH PLAN**
1/8" = 1'-0"

20210121.35.05 CN SHS PHASE 2
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

ID101
INTERIOR FINISH PLAN AND DETAILS

CODE AND DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
- INTERNATIONAL BUILDING CODE, 2015 EDITION WITH OKLAHOMA STATE AMENDMENTS
2. STRUCTURE RISK CATEGORY
- RISK CATEGORY II
3. GRAVITY LOADS
3.1. FLOOR DEAD LOADS
- REF PLANS
3.2. ROOF DEAD LOADS
- REF PLAN
3.3. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
- BLEACHERS / GRANDSTAND 100 PSF
- BALCONY / DECK 100 PSF
- STAIRS AND EXITS 100 PSF
3.4. CONCENTRATED FLOOR LIVE LOADS (DISTRIBUTED OVER AN AREA OF 2-1/2 FEET x 2-1/2 FEET, UNLESS NOTED OTHERWISE):
- STAIRS AND EXITS 300 LB (2 INCH X 2 INCH AREA)
3.5. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
- ROOF 20 PSF
4. WIND DESIGN DATA
- ULTIMATE DESIGN WIND SPEED Vult = 115 MILE/HOUR
- NOMINAL DESIGN WIND SPEED Vnom = 89.1 MILE/HOUR
- WIND EXPOSURE EXPOSURE C
- INTERNAL PRESSURE COEFFICIENT GCp1 = +0.18

- COMPONENTS AND CLADDING DESIGN WIND PRESSURES
- ROOF
- ZONE 1 -35.7 PSF / 16.0 WHEN ZONE 2 AND ZONE 3 DO NOT APPLY
- ZONE 2 -49.7 PSF / 16.0 3'-3" FROM RIDGE AND ROOF EDGE IN EACH DIRECTION
- ZONE 3 -77.6 PSF / 16.0 3'-3" FROM ROOF CORNER IN EACH DIRECTION
- WALLS
- ZONE 4 -32.7 PSF / 30.1 WHEN ZONE 5 DOES NOT APPLY.
- ZONE 5 -40.2 PSF / 30.1 3'-3" FROM BUILDING CORNER IN EACH DIRECTION
- COMPONENTS AND CLADDING WIND PRESSURES LISTED ABOVE ARE BASED UPON AN EFFECTIVE WIND AREA OF 10 SQUARE FEET. POSITIVE PRESSURES INDICATE WIND LOADING TOWARD THE SURFACE. NEGATIVE PRESSURES INDICATE WIND LOADING AWAY FROM THE SURFACE.

- 5. EARTHQUAKE DESIGN DATA
- SEISMIC IMPORTANCE FACTOR I = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
- 0.2-SECOND PERIOD S0.2 = 0.154
- 1.0-SECOND PERIOD S1 = 0.081
- SITE CLASS SITE CLASS D (ASSUMED)
- DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
- 0.2-SECOND PERIOD S0.2 = 0.164
- 1.0-SECOND PERIOD S1 = 0.130
- SEISMIC DESIGN CATEGORY SDC B
- BATHROOM BUILDING & TICKET OFFICE
- BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION COEFFICIENT R = 2
- SEISMIC RESPONSE COEFFICIENT Cs = 0.047
- DESIGN BASE SHEAR V = 0.047W
- PRESS BOX
- BASIC SEISMIC FORCE RESISTING SYSTEM STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- RESPONSE MODIFICATION COEFFICIENT R = 3
- SEISMIC RESPONSE COEFFICIENT Cs = 0.01
- DESIGN BASE SHEAR V = 0.01W
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS

GENERAL

- 1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND CIVIL DOCUMENTS. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND WEIGHTS WITH THE VENDOR.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS, LOCATIONS, AND DEPTHS OF SLAB RECESSES WITH ARCHITECTURAL DRAWINGS, INTERIOR DRAWINGS, AND PRODUCT MANUFACTURERS.
9. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
10. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
11. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR UNLESS PROVIDED FOR IN THE CONTRACT OR AS AGREED TO BY THE DESIGN TEAM AND THE CONTRACTOR.
14. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
15. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

- 16. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.
17. THE STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN AND CONNECTIONS OF DEFERRED DELEGATED DESIGN ITEMS OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. DEFERRED SUBMITTALS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
18. DEFERRED DELEGATED DESIGN ITEMS / DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING UNLESS SPECIFICALLY NOTED OTHERWISE:
- STADIUM SEATING, RAMPS, STAIRS, AND FOUNDATIONS
- COLD-FORMED METAL FRAMING AND CONNECTIONS
- WOOD ROOF TRUSSES
- CANOPES & SUNSHADES
- HANDRAILS AND CONNECTIONS
- SUPPORT AND FASTENING FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS

FOUNDATION

- 1. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL CONSIDER THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED, AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. INDIVIDUAL SPREAD FOOTINGS, CONTINUOUS SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 1500 PSF.
3. EARTH-RETAINING FOUNDATIONS AND WALLS ARE DESIGNED FOR THE FOLLOWING NOMINAL SOIL CRITERIA:
- ALLOWABLE SOIL BEARING PRESSURE 1500 PSF
- EQUIVALENT LATERAL FLUID PRESSURE - ACTIVE CASE 50 PSF/FT
- EQUIVALENT LATERAL FLUID PRESSURE - AT-REST CASE 60 PSF/FT
- EQUIVALENT LATERAL FLUID PRESSURE - PASSIVE CASE 225 PSF/FT
- COEFFICIENT OF SLIDING FRICTION 0.30 (ULTIMATE)
- FINE-GRAINED MATERIAL (SILT/CLAY) SHALL NOT BE USED AS FOUNDATION WALL BACKFILL MATERIAL.
- PROVIDE GEOTEXTILE FABRIC AGAINST UNDISTURBED SOIL SLOPE BEFORE BACKFILLING.
- ALL FOUNDATION WALLS SHALL BE PROPERLY DRAINED. SEE PLUMBING AND CIVIL DOCUMENTS FOR FOUNDATION DRAIN REQUIREMENTS.
4. CLEAR SUBGRADE BY STRIPPING ALL VEGETATION, TOPSOIL, ORGANIC SOILS, UNSTABLE FILL, LOOSE ROCK FRAGMENTS GREATER THAN 6 INCHES IN DIAMETER, DEMOLITION DEBRIS, AND OTHER DEBRIS. UNSUITABLE EXISTING FILL AND OTHER SOILS JUDGED UNSATISFACTORY BY THE REPRESENTATIVE OF THE REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- PROOF ROLL THE BUILDING AREA AFTER STRIPPING OPERATIONS AND EXCAVATIONS TO PLANNED SUBGRADE ARE COMPLETE. PROOF ROLL THE BUILDING AREA WITH TWO COMPLETE COVERAGES (MINIMUM OF A FULLY-LOADED, TANDEM AXLE DUMP TRUCK, OR SCRAPER (25 TON MINIMUM)). PROOF ROLLING OPERATIONS SHALL BE REVIEWED AND CONDUCTED UNDER THE DIRECTION OF A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY. SOFT SOILS, SOILS THAT DISPLAY PUMPING, AND OTHER SOILS JUDGED UNSATISFACTORY BY THE REPRESENTATIVE OF THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL OR REMEDIATED ACCORDING TO THE REPRESENTATIVE'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE SPECIFICATIONS. AREAS RECEIVING STRUCTURAL FILL SHALL BE PROOF ROLLED BEFORE PLACEMENT OF THE FILL.
5. DENSITY BUILDING AREAS AND A MINIMUM OF 5'-0" OUTSIDE THE BUILDING PERIMETER USING A VIBRATORY ROLLER.
6. UNDERCUT THE ENTIRE BUILDING AREA TO THE EXTENT SHOWN ON THE STRUCTURAL DOCUMENTS AND REPLACE REMOVED MATERIAL WITH COMPACTED STRUCTURAL FILL AS REQUIRED.
7. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH, AND THEIR LATERAL AND VERTICAL ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL).
8. MAINTAIN PROPER DRAINAGE OF THE SITE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE A SYSTEM FOR CONTROLLING GROUNDWATER TO PRESERVE THE INTEGRITY OF THE FOUNDATION AND BUILDING SUBGRADE. REMEDIAL WORK WILL BE REQUIRED WHERE WATER HAS REDUCED THE INTEGRITY OF THE FOUNDATION AND BUILDING SUBGRADE. WATER SHALL BE COLLECTED TO A POND, OR COLLECT IN THE FOUNDATION EXCAVATIONS, ON FLOOR SLAB AREAS, OR ON PREPARED SUBGRADES DURING OR AFTER CONSTRUCTION.
9. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
10. THE TIME BETWEEN CONCRETE TRUCK LOADS DURING A CONCRETE PLACEMENT FOR SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL NOT CAUSE UNPLANNED COLD JOINTS.
11. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 24 INCHES BELOW FINISHED GRADE.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO ACI 301, ACI 318, AND CRSI STANDARDS.
2. CONCRETE SHALL BE THE FOLLOWING SPECIFIED PROPERTIES (MINIMUM EXPOSURE CLASS, MINIMUM 28-DAY COMPRESSIVE STRENGTH, AND MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO):
2.1. NORMALWEIGHT STRUCTURAL CONCRETE:
ELEMENT EXPOSURE CLASS STRENGTH W/C/M
- FOOTINGS F0 S0 W0 C1 3000 PSI 0.50
- SITE RETAINING WALLS F2 S0 W1 C1 4500 PSI 0.45
- BASEMENT WALLS AND PILASTERS F1 S0 W1 C1 4500 PSI 0.45
- EXTERIOR GRADE-SUPPORTED SLABS F3 S0 W0 C2 5000 PSI 0.40
- INTERIOR GRADE-SUPPORTED SLABS F0 S0 W0 C1 4000 PSI 0.50
- SLABS F0 S0 W0 C0 4500 PSI 0.50

- 3. DO NOT PLACE PIPES, CONDUITS, OR DUCTS IN AND RUNNING PARALLEL TO BEAMS WITHOUT PRIOR AUTHORIZATION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
4. PIPES, CONDUITS, OR DUCTS SHALL NOT EXCEED ONE-FIFTH OF THE SLAB OR WALL THICKNESS (INCLUDING CROSSINGS) UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL DESIGN PROFESSIONAL. PLACE ALL PIPES, CONDUITS, AND DUCTS IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE THE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLABS, ACCESSORIES, ETC. CONDUIT IN COMPOSITE SLABS SHALL NOT EXCEED 3/4 INCH DIAMETER EMT AND SHALL NOT BE SPACED CLOSER THAN 12 INCHES.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR THE LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
6. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
7. DEFECTIVE AREAS IN CONCRETE, INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. THE EXTENT OF THE DEFECTIVE AREAS WILL BE DETERMINED BY THE DESIGN PROFESSIONAL.
8. CONCRETE MIX DESIGN FOR 3000 PSI CONCRETE SHALL BE BASED ON A MAXIMUM AGGREGATE SIZE OF 1/2 INCH, MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO OF 0.50 FOR NON-AIR-ENTRAINED CONCRETE AND 0.40 FOR AIR-ENTRAINED CONCRETE, AND A MAXIMUM SLUMP OF 4 INCHES. AIR-ENTRAINED CONCRETE SHALL BE USED FOR EXTERIOR EXPOSED CONCRETE WITH AN AIR CONTENT BETWEEN 5.5 AND 7.5 PERCENT.
9. CONCRETE GRADE SUPPORTED SLABS SHALL NOT BE LOADED UNTIL A MINIMUM CONCRETE STRENGTH OF 1900 PHS IS OBTAINED AND THE CONCRETE IS AT LEAST THREE DAYS OLD. ALL OTHER CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE DESIGN STRENGTH IS ATTAINED.
10. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ACI 301 AND SPECIFICATIONS SHALL BE COMPLIANCE WITH THE CONTRACT DOCUMENTS. AT A MINIMUM, CONCRETE SPECIMENS SHALL BE TAKEN FOR EVERY 1000 CUBIC FEET OR PORTION THEREOF FOR EACH DESIGN PLACED IN A DAY. CONCRETE TEST REPORTS SHALL BE AVAILABLE ON SITE FOR INSPECTION.
11. C.J. ON THE SLAB AND FOUNDATION PLAN INDICATES KEY-FORMED CONSTRUCTION JOINTS OR SAW-CUT CONSTRUCTION JOINTS IN THE CONCRETE GRADE SUPPORTED SLAB. SAW-CUT CONSTRUCTION JOINTS SHALL BE INSTALLED WITHIN 12 HOURS OF SLAB PLACEMENT. CONTINUE REINFORCEMENT THROUGH JOINTS. CONCRETE AND/OR CONSTRUCTION JOINTS SHALL BE SPACED NO FARTHER APART THAN 48 TIMES THE SLAB THICKNESS ON CENTER IN EACH DIRECTION, CREATING PANELS WITH AN ASPECT RATIO NOT GREATER THAN 1.5:1.
12. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A CHAMFER OR RADIUS OF 3/4 INCH UNLESS NOTED OTHERWISE.
13. CONCRETE SHALL RECEIVE THE FOLLOWING FINISHES (UNLESS NOTED OTHERWISE OR REQUESTED BY THE OWNER OR ARCHITECTURAL DESIGN PROFESSIONAL):
- INTERIOR EXPOSED SLABS: STEEL TROWEL FINISH
- EXTERIOR SLABS: BROOM FINISH IN THE DIRECTION OF SLOPE
- ALL OTHER CONCRETE: STEEL TROWEL FINISH

- 14. INTERIOR EXPOSED SLABS SHALL MEET THE FOLLOWING FLOOR FLATNESS AND FLOOR LEVELNESS TOLERANCES AS DETERMINED BY ASTM E1155:
- CONVENTIONAL FLOORS (CARPETED OFFICES): FfR1 = 25/20
- FLAT FLOORS (THIN-SET CERAMIC TILE OR VCT): FfR1 = 36/20
15. MAINTAIN CONCRETE AFTER PLACEMENT WITH MINIMUM MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR THE HYDRATION OF CEMENT AND HARDENING OF CONCRETE (NOT LESS THAN SEVEN DAYS). CURING AND PROTECTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 308 - STANDARD PRACTICE FOR CURING CONCRETE (AMERICAN CONCRETE INSTITUTE). A COMBINATION OF CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS HAVE BEEN REMOVED. CONDUITS SHALL MEET THE REQUIREMENTS OF ASTM C1313 - STANDARD PRACTICE FOR CURING CONCRETE (AMERICAN CONCRETE INSTITUTE). A COMBINATION OF CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS HAVE BEEN REMOVED. CONDUITS SHALL MEET THE REQUIREMENTS OF ASTM C1313 - STANDARD PRACTICE FOR CURING CONCRETE (AMERICAN CONCRETE INSTITUTE). A COMBINATION OF CURING AND SEALING COMPOUND SHALL BE APPLIED AFTER THE CONCRETE HAS BEEN FINISHED OR THE FORMS HAVE BEEN REMOVED. 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SPECIAL INSPECTION REQUIREMENTS (2015)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2015 CHAPTER 17)

- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL, IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO DISCREPANCIES ARE NOT CORRECTED. THE DISCREPANCIES ARE NOT CORRECTED. THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL, IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
- FABRICATORS OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.

IBC 2015 REQUIRED SPECIAL INSPECTIONS		CONTINUOUS	PERIODIC
STEEL CONSTRUCTION - STRUCTURAL STEEL (IBC SECTION 1705.2.1)			
1.	SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.		
STEEL CONSTRUCTION - COLD FORMED STEEL DECK (IBC SECTION 1705.2.2)			
1.	SPECIAL INSPECTION AND QUALIFICATIONS OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.		
CONCRETE CONSTRUCTION (IBC TABLE 1705.3)			
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2.	INSPECTION OF REINFORCING BAR WELDING IN ACCORDANCE WITH TABLE 1705.3 ITEM 2.	X	---
3.	INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	X	---
5.	VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.	INSPECT CONCRETE AND GROUT/RETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	---	X
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
9.	INSPECT PRESTRESSED CONCRETE FOR:		
A.	APPLICATION OF PRESTRESSING FORCES, AND	X	---
B.	GROUTING OF BONDED PRESTRESSING TENDONS	X	---
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	---	X
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
SOILS (IBC TABLE 1705.6)			
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
*	CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
†	PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

ABBREVIATIONS

AB	ANCHOR BOLT	INT	INTERIOR
ADDL	ADDITIONAL	JBE	JOIST BEARING ELEVATION
ADH	ADHESIVE	JT	JOINT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	K	KIPS
AFF	ABOVE FINISHED FLOOR	KSF	KIPS PER SQUARE FOOT
ALT	ALTERNATE	KSI	KIPS PER SQUARE INCH
ARCH	ARCHITECT OF RECORD	LBS	POUNDS
B	BOTTOM	LF	LINEAR FEET
B/xxx	BOTTOM OF xxx	LLH	LONG LEG HORIZONTAL
BFF	BELOW FINISHED FLOOR	LLV	LONG LEG VERTICAL
BL	BLOCK LINTEL	LONG	LONGITUDINAL
BLDG	BUILDING	LW	LIGHT WEIGHT
BM	BEAM	MATL	MATERIAL
BP	BASE PLATE	MAX	MAXIMUM
BRG	BEARING	MECH	MECHANICAL
CFMF	COLD FORMED METAL FRAMING	MEP	MECHANICAL/ELECTRICAL/PLUMBING
CIP	CAST IN PLACE	MFR	MANUFACTURER / MANUFACTURING
CJ	CONTRACTION JOINT	MN	MINIMUM
CJP	COMPLETE JOINT PENETRATION	MISC	MISCELLANEOUS
CL	CENTER LINE	MS	MIDDLE STRIP
CLR	CLEAR	MTL	METAL
CMU	CONCRETE MASONRY UNIT	N/A	NOT APPLICABLE
COL	COLUMN	NIC	NOT IN CONTRACT
COMP	COMPOSITE	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	NW	NORMAL WEIGHT
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OH	OPPOSITE HAND
COORD	COORDINATE	OPNG	OPENING
CS	CURTAIN STRIP	OPP	OPPOSITE
CW	CURTAIN WALL	PAF	POWDER / POWDER ACTUATED FASTENER
DBA	DEFORMED BAR ANCHOR	PC	PILE / PER CAP
DBE	DECK BEARING ELEVATION	PCC	PRECAST CONCRETE
DBL	DOUBLE	PCF	POUNDS PER CUBIC FOOT
DIA	DIAMETER	PEMB	PRE-ENGINEERED METAL BUILDING
DL	DEAD LOAD	PJF	PREFORMED JOINT FILLER
DN	DOWN	PJP	PARTIAL JOINT PENETRATION
DP	DRILLED PIER	PL	PLATE
DWG	DRAWING	PLF	POUNDS PER LINEAR FOOT
DWL	DOWEL	PSF	POUNDS PER SQUARE FOOT
EE	EACH END	PSI	POUNDS PER SQUARE INCH
EJ	EACH FACE	R	REACTION
EL	ELEVATION	RAD	RADIUS
EMBED	EMBEDMENT / EMBEDDED	RD	ROOF DRAIN
ENG	ENGINEER / ENGINEERING	REF	REFER TO
EOR	EDGE OF DECK	REINF	REINFORCING / REINFORCEMENT
EOR	ENGINEER OF RECORD	REQD	REQUIRED
EOS	EDGE OF SLAB	RO	ROUGH OPENING
EQ	EQUAL	RTU	ROUGH TOP UNIT
EQUIP	EQUIPMENT	SCHED	SCHEDULE
EW	EACH WAY	SECS	SELF-DRILLING SCREWS
EXIST	EXISTING	SF	SQUARE FEET
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SP	SPECIAL
F/xxx	FACE OF	SPA	SPACE / SPACING
FD	FLOOR DRAIN	SPECS	SPECIFICATIONS
FDN	FOUNDATION	SQ	SQUARE
FF	FINISHED FLOOR ELEVATION	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FS	FAR SIDE	STIFF	STIFFENER
FTG	FEET	STL	STEEL
FTG	FOOTING	STR	STRUCTURE / STRUCTURAL
FV	FIELD VERIFY	SW	SHEAR WALL
GA	GAUGE	SYM	SYMMETRICAL
GALV	GALVANIZED	T	TOP
GB	GRADE BEAM	T&B	TOP AND BOTTOM
GC	GENERAL CONTRACTOR	T/xxx	TOP OF xxx
GR	GRADE	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HS	HIGH STRENGTH	UNO	UNLESS NOTED OTHERWISE
DJA	HEADED STUD ANCHOR	VERT	VERTICAL
		WP	WORK POINT
		WWR	WELDED WIRE REINFORCEMENT

AISC 360-10 SPECIAL INSPECTION REQUIREMENTS

- QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS. NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE.
- NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE (QA).
- QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT.
- QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE.
- THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- FOR WORK PERFORMED BY APPROVED FABRICATORS AND ERECTORS:
 - QA INSPECTIONS, EXCEPT NDT, MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA.
 - NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S TEST REPORTS.
 - AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
 - AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

AISC 360-10, CHAPTER N SPECIAL INSPECTION REQUIREMENTS

	FREQUENCY OF INSPECTION	
	PERFORM	OBSERVE
N5.4 - INSPECTION OF WELDING		
AISC 360-10, TABLE N5.4.1 - INSPECTION TASKS PRIOR TO WELDING		
1.	WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X
2.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X
3.	MATERIAL IDENTIFICATION (TYPE/GRADE)	---
4.	WELDER IDENTIFICATION SYSTEM (a)	---
5.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	X
A.	JOINT PREPARATION	---
B.	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	---
C.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---
D.	TACKLING (TACK WELD QUALITY AND LOCATION)	---
E.	BACKING TYPE AND FIT (IF APPLICABLE)	---
6.	CONFIGURATION AND FINISH OF ACCESS HOLES	---
7.	FIT-UP OF FILLET WELDS	---
A.	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	---
B.	CLEANLINESS (CONDITION OF STEEL SURFACES)	---
C.	TACKLING (TACK WELD QUALITY AND LOCATION)	---
AISC 360-10, TABLE N5.4.2 - INSPECTIONS DURING WELDING		
1.	USE OF QUALIFIED WELDERS	---
2.	CONTROL AND HANDLING OF WELDING CONSUMABLES	X
A.	PACKAGING	---
B.	EXPOSURE CONTROL	---
3.	NO WELDING OVER CRACKED TACK WELDS	---
4.	ENVIRONMENTAL CONDITIONS	---
A.	WIND SPEED WITHIN LIMITS	---
B.	PRECIPITATION AND TEMPERATURE	---
5.	WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED	---
A.	SETTINGS ON WELDING EQUIPMENT	---
B.	TRAVEL SPEED	---
C.	SELECTED WELDING MATERIALS	---
D.	SHIELDING GAS TYPE / FLOW RATE	---
E.	PREHEAT APPLIED	---
F.	INTERPASS TEMPERATURE MAINTAINED (MIN. MAX.)	---
G.	PROPER POSITION (F, V, H, OH)	---
6.	WELDING TECHNIQUES	---
A.	INTERPASS AND FINAL CLEANING	---
B.	EACH PASS WITHIN PROFILE LIMITATIONS	---
C.	EACH PASS MEETS QUALITY REQUIREMENTS	---
AISC 360-10, TABLE N5.4.3 - INSPECTIONS AFTER WELDING		
1.	WELDS CLEANED	---
2.	SIZE, LENGTH AND LOCATION OF WELDS	X
3.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	---
A.	CRACK PROHIBITION	X
B.	WELD/BASE-METAL FUSION	---
C.	CRATER CROSS SECTION	X
D.	WELD PROFILES	X
E.	WELD SIZE	X
F.	UNDERCUT	X
G.	POROSITY	X
4.	ARC STRIKES	X
5.	k-AREA (a)	X
6.	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X
7.	REPAIR ACTIVITIES	X
8.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X
** PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER		
** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.5 - INSPECTION OF HIGH-STRENGTH BOLTS		
AISC 360-10, TABLE N5.5.1 - INSPECTION TASKS PRIOR TO BOLTING		
1.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X (QA)
2.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	---
3.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH)	---
4.	PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	---
5.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE PAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	---
6.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED (a)	X
7.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	---
AISC 360-10, TABLE N5.5.2 - INSPECTIONS DURING BOLTING		
1.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	---
2.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	---
3.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING (b)	---
4.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES (b)	---
AISC 360-10, TABLE N5.5.3 - INSPECTIONS AFTER BOLTING		
1.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X
(a) NOT APPLICABLE FOR SNUG TIGHT JOINTS.		
(b) FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS.		
** PERFORM - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION		
** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		
N5.7 - OTHER INSPECTION TASKS		
1.	INSPECT THE STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION	X
2.	INSPECT THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE	X
** PERFORM - PERFORM THESE TASKS FOR EACH CONNECTION.		
N6 - INSPECTION OF COMPOSITE CONSTRUCTION		
INSPECTIONS OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT (AISC 360-10, TABLE N6.1)		
1.	PLACEMENT AND INSTALLATION OF STEEL DECK	X
2.	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X
3.	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	---
** PERFORM - PERFORM THESE TASKS FOR EACH STEEL ELEMENT.		

SDI QA/QC - 2011 SPECIAL INSPECTION REQUIREMENTS

- QUALITY CONTROL (QC) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY THE INSTALLER.
- QUALITY ASSURANCE (QA) AS SPECIFIED IN THE STANDARD SHALL BE PROVIDED BY OTHERS.
- THE QUALITY ASSURANCE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE AHJ AND SATISFY THE QUALIFICATIONS NOTED IN SECTION 3.2 OF THE STANDARD.

SDI QA/QC - 2011 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

	FREQUENCY OF INSPECTION	
	PERFORM	OBSERVE
TABLE 1.1 INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT		
A.	VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X
B.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X
TABLE 1.2 INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT		
A.	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	X
B.	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	X
C.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X
TABLE 1.3 INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	---
B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	---
C.	MATERIAL IDENTIFICATION (TYPE/GRADE)	---
D.	CHECK WELDING EQUIPMENT	X
TABLE 1.4 INSPECTION OR EXECUTION TASKS DURING WELDING		
A.	USE OF QUALIFIED WELDERS	---
B.	CONTROL AND HANDLING OF WELDING CONSUMABLES	---
C.	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	---
D.	WPS FOLLOWED	---
TABLE 1.5 INSPECTION OR EXECUTION TASKS AFTER WELDING		
A.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	X
B.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	X
C.	VERIFY REPAIR ACTIVITIES	X
D.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X
TABLE 1.6 INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING		
A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	---
B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	---
C.	PROPER STORAGE FOR MECHANICAL FASTENERS	X
TABLE 1.7 INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
A.	FASTENERS ARE POSITIONED AS REQUIRED	---
B.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	X
TABLE 1.8 INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
A.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	X
B.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X
C.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X
D.	VERIFY REPAIR ACTIVITIES	X
E.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X
** PERFORM - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.		
** OBSERVE - INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.		

ACI 530/ACI 530.1 SPECIAL INSPECTION REQUIREMENTS

	CONTINUOUS		PERIODIC
	MASONRY CONSTRUCTION - LEVEL A QUALITY ASSURANCE (ACI 530 TABLE 3.1.1)		
1. PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION.			
MASONRY CONSTRUCTION - LEVEL B QUALITY ASSURANCE (ACI 530 TABLE 3.1.2 - RISK CATEGORY I, II OR III)			
1.	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5B.1.b FOR SELF-CONSOLIDATING GROUT.		
2.	VERIFICATION OF f _m AND f _{msc} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.		
3.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X
4.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A.	PROPORTIONS OF SITE-PREPARED MORTAR.	---	X
B.	CONSTRUCTION OF MORTAR JOINTS.	---	X
C.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	---	X
D.	LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X
E.	PRESTRESSING TECHNIQUE.	---	X
1.	REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY.	X	---
2.	REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.	---	X
5.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A.	GROUT SPACE	---	X
B.	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGE.	---	X
C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X
D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	---	X
E.	CONSTRUCTION OF MORTAR JOINTS.	---	X
6.	VERIFY DURING CONSTRUCTION:		
A.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X
B.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY		

FOUNDATION PLAN SHEET NOTES:

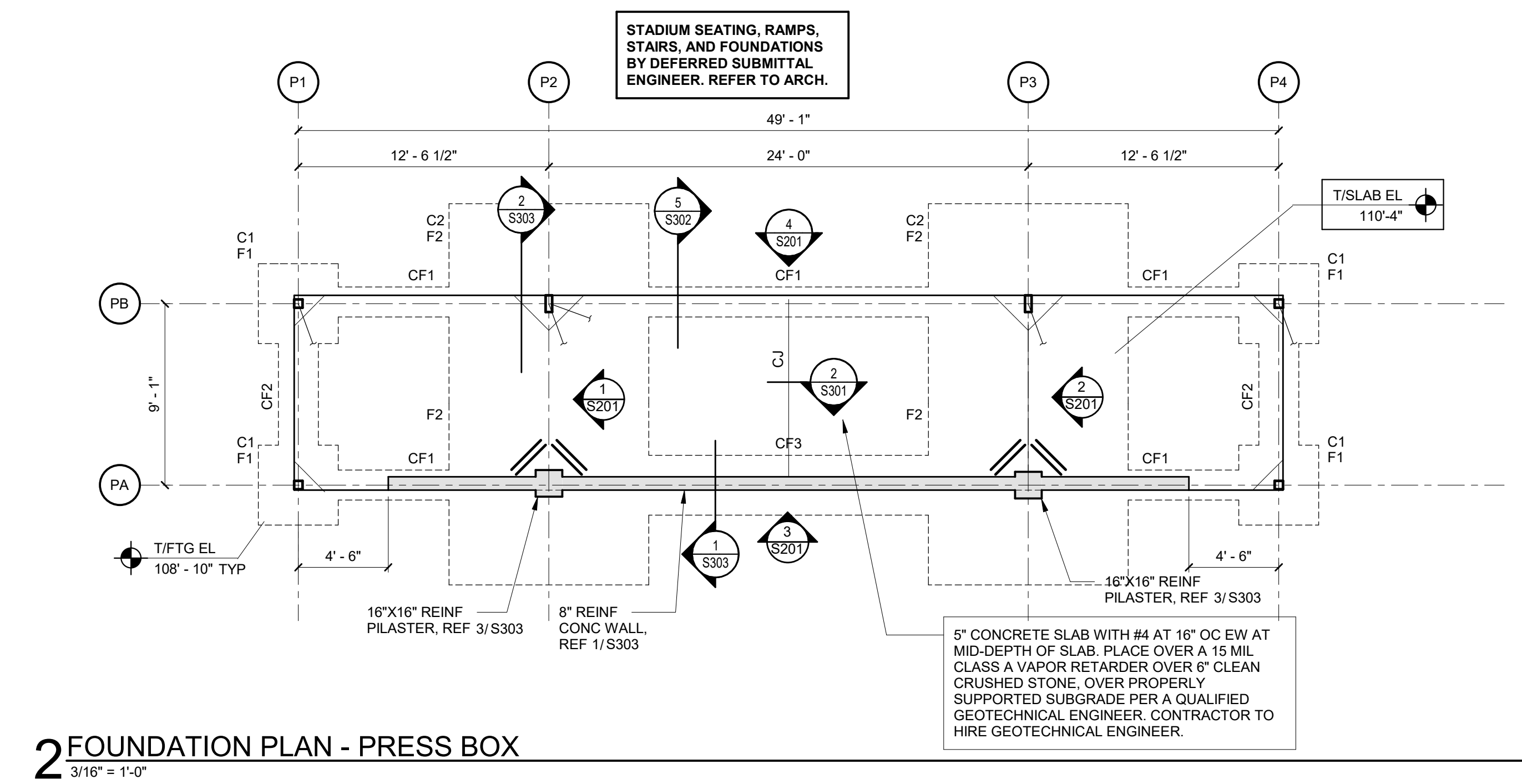
- T/CONC SLAB EL = 107'-10" (CIVIL EL 836.00').
- T/FDN EL = (-0'-0" BELOW T/SLAB EL LNK).
- COL AND FDN CENTERED ON COL GRID LINES UNO.
- REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD SLAB ELEVATIONS, SLAB EDGES, AND SLAB SLOPES WITH ARCH PLANS.
- REF MECH AND ARCH DWGS FOR SLAB PENETRATIONS.
- THICKEN SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN THE MIN CONC SLAB THICKNESS INDICATED ON PLANS.

FOUNDATION PLAN REFERENCE NOTES:

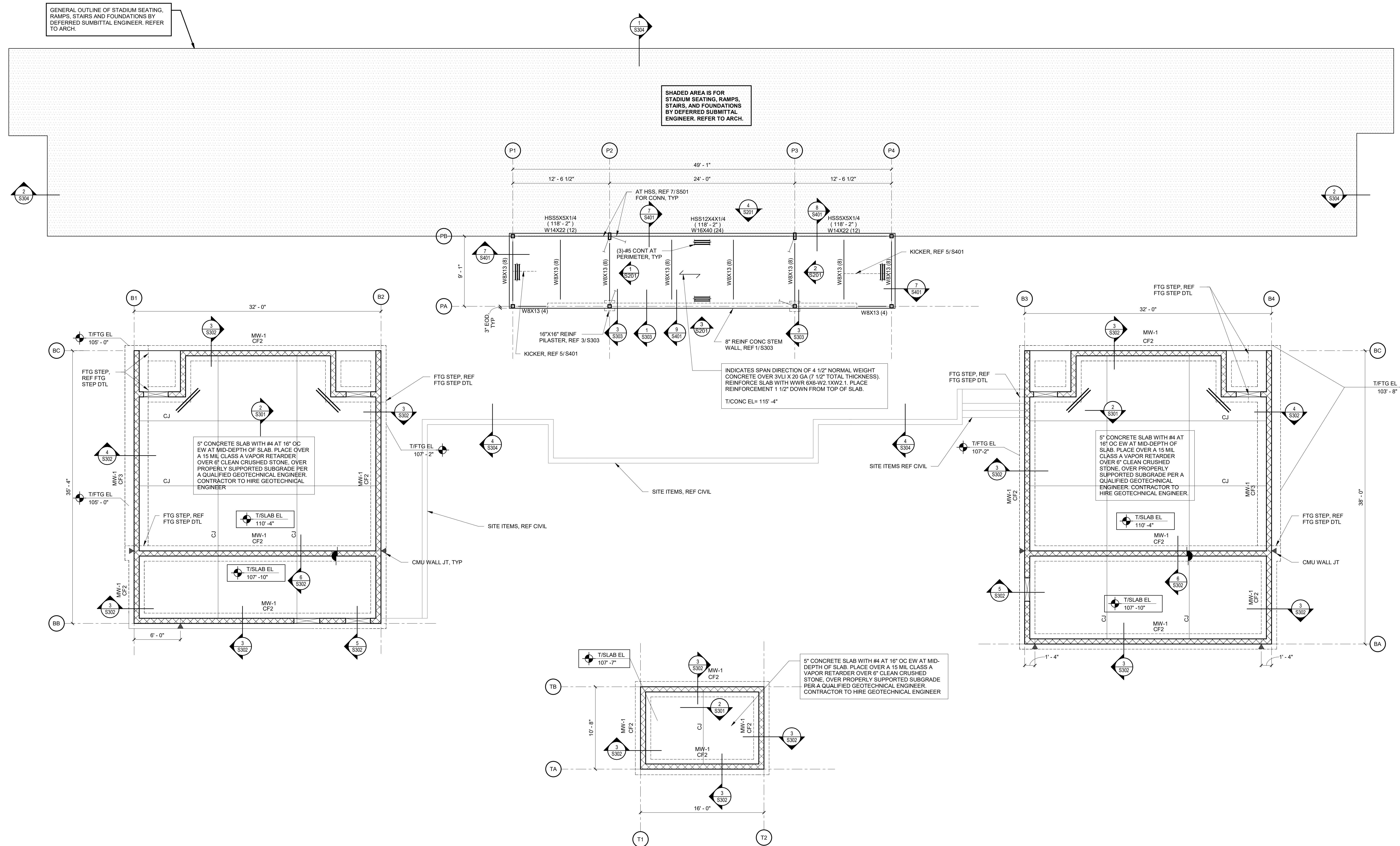
- REF S301 FOR FDN AND COL SCHED.
- REF S301, S302, AND S303 FOR TYP FDN DETAILS.
- REF S401 FOR TYP FLOOR FRAMING DETAILS.

PRESS BOX FLOOR DEAD LOADS:

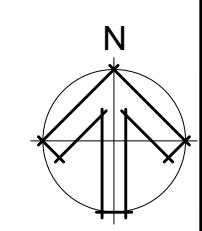
- SLAB ON METAL DECK 75 PSF
- FLOORING 2 PSF
- MEP ALLOWANCE 4 PSF
- MISCELLANEOUS 4 PSF
- STRUCTURE SELF-WEIGHT



2 FOUNDATION PLAN - PRESS BOX
3/16" = 1'-0"

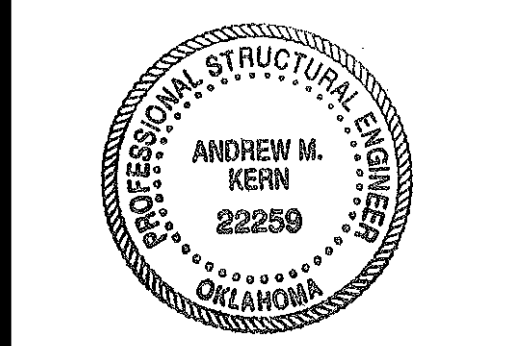


1 FOUNDATION PLAN
3/16" = 1'-0"





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S102
ROOF FRAMING PLAN

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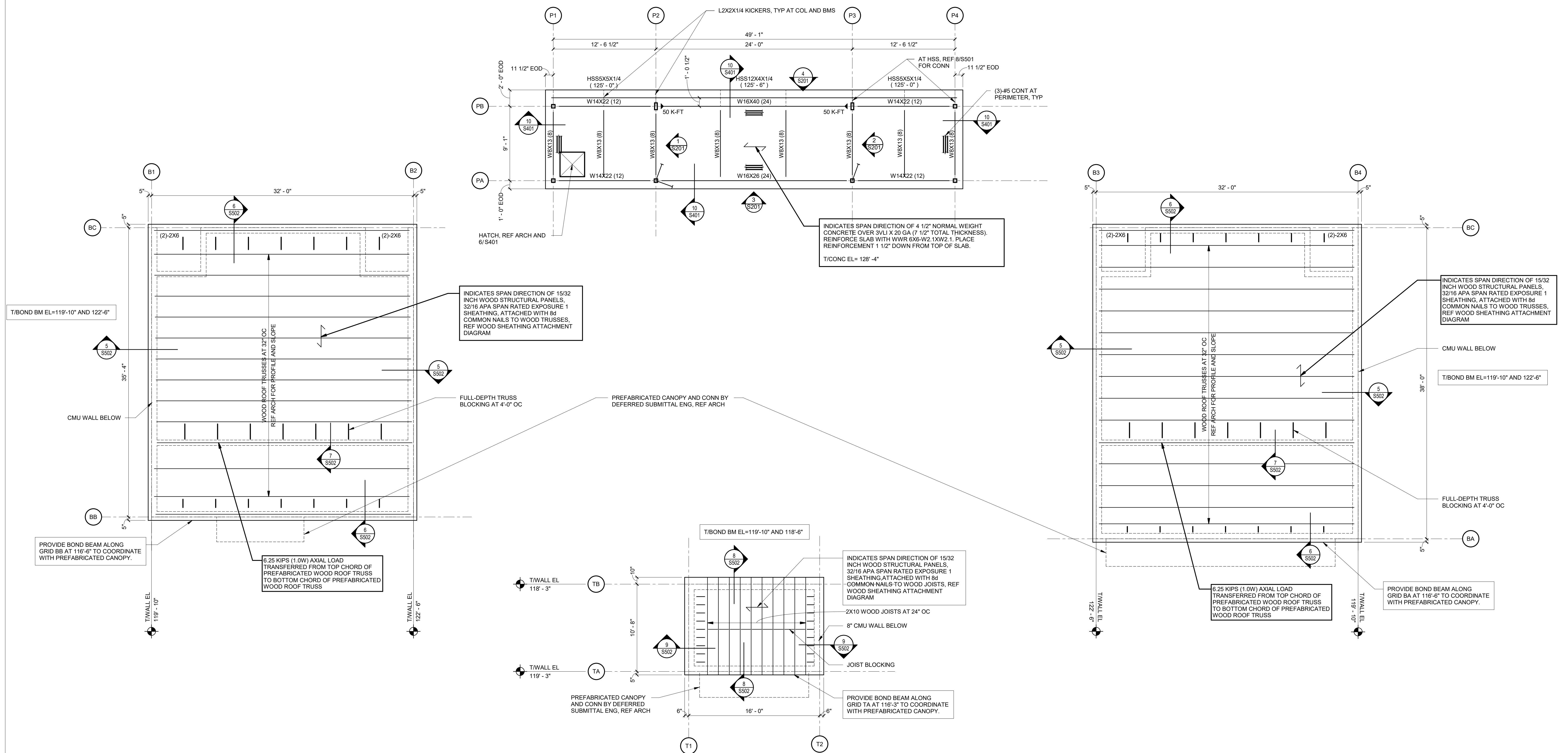
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ROOF FRAMING PLAN

SHEET NUMBER:
S102

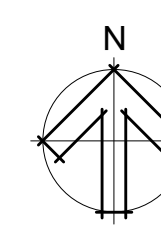
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- STEEL ROOF FRAMING PLAN SHEET NOTES:**
1. ROOF DECK EL. REF PLAN
 2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COL LINES UNO.
 3. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCH PLANS.
 4. REF MECH AND ARCH DWGS FOR ROOF DECK PENETRATIONS.
 5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
- STEEL ROOF FRAMING PLAN REFERENCE NOTES:**
- A. REF FDN PLAN FOR STL COL. SIZES. REF S301 FOR COL. SCHED.
 - B. REF S501 AND S502 FOR TYP ROOF FRAMING DTLS.
 - C. REF S501 FOR CONN SCHED.
- PRESS BOX FLOOR DEAD LOADS:**
- SLAB ON METAL DECK 75 PSF
 - FLOORING 2 PSF
 - MEP ALLOWANCE 4 PSF
 - INSULATION 4 PSF
 - CEILING 2 PSF
 - STRUCTURE SELF-WEIGHT 2 PSF
 - MISCELLANEOUS 3 PSF
- TICKET OFFICE AND RESTROOM ROOF DEAD LOADS:**
- ROOFING AND INSULATION 6 PSF
 - ROOF SHEATHING 2 PSF
 - MEP ALLOWANCE 4 PSF
 - CEILING 2 PSF
 - STRUCTURE SELF WEIGHT 2 PSF
 - MISCELLANEOUS 1 PSF



1 ROOF FRAMING PLAN
3/16" = 1'-0"

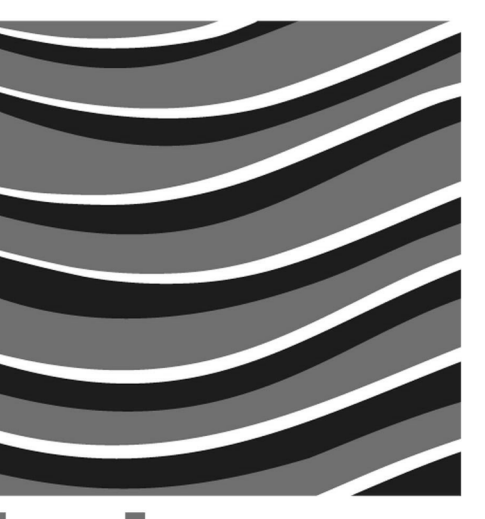
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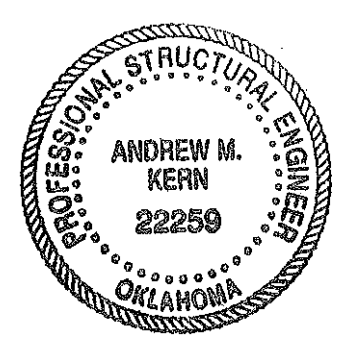
- STEEL ROOF FRAMING PLAN SHEET NOTES:**
1. B/R/OOF DECK EL. REF PLAN
 2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COL LINES UNO.
 3. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCH PLANS.
 4. REF MECH AND ARCH DWGS FOR ROOF DECK PENETRATIONS.
 5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.

- STEEL ROOF FRAMING PLAN REFERENCE NOTES:**
- A. REF FDN PLAN FOR STL COL SIZES. REF S301 FOR COL SCHED
 - B. REF S501 AND S602 FOR TYP ROOF FRAMING DTLS.
 - C. REF S501 FOR CONN SCHED.

- PRESS BOX FLOOR DEAD LOADS:**
- ROOFING 3 PSF
 - CEILING 2 PSF
 - MEP ALLOWANCE 4 PSF
 - MISCELLANEOUS 4 PSF
 - STRUCTURE SELF WEIGHT



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01/02/2024



OK. C.A. #1460
EXP. 06.30.25

SEQUOYAH HIGH SCHOOL FOOTBALL FIELD
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464

S103
PARTIAL PLAN - PRESS BOX ROOF FRAMING PLAN



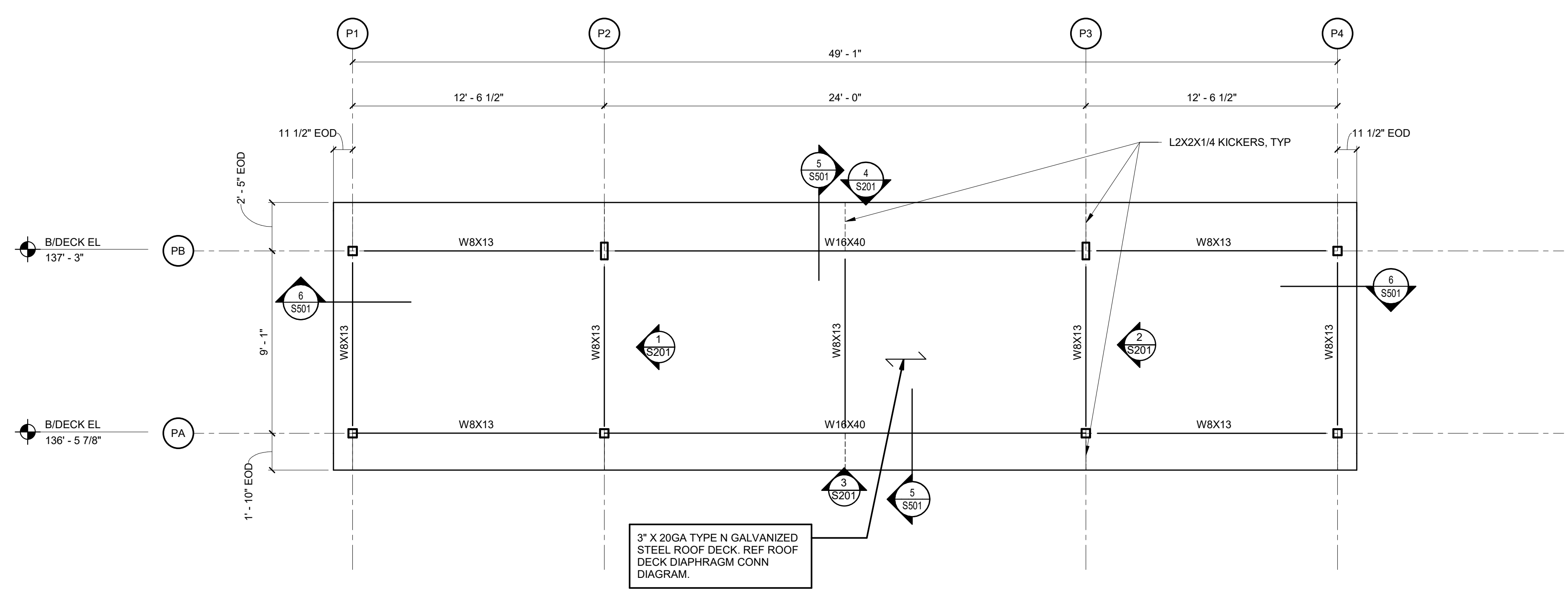
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20230720
ISSUE DATE:
12/22/2023
ISSUE:
100% CD

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

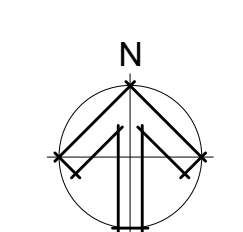
SHEET NAME:
PARTIAL PLAN - PRESS BOX ROOF FRAMING PLAN

SHEET NUMBER:
S103

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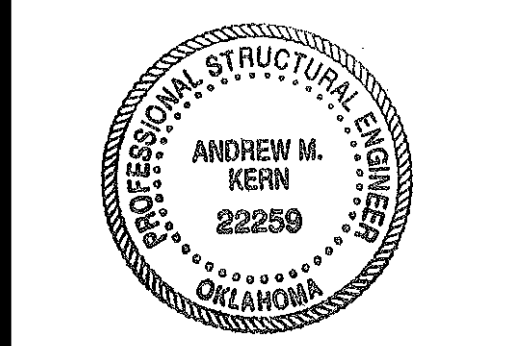


1 ROOF FRAMING PLAN - PRESS BOX
1/4" = 1'-0"





blue river
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A Native American Owned Firm



01/02/2024



OK, C.A. #1460
EXP. 06.30.25

SEQUOYAH HIGH SCHOOL FOOTBALL FIELD
17091 S. MUSKOGEE AVE., TAHLEQUAH, OK 74464
S201
BRACED FRAME ELEVATIONS



BLUE RIVER PROJECT NUMBER:
20230720
ISSUE DATE:
12/22/2023
ISSUE:
100% CD

OTHER ISSUE DATES:
NO. DESCRIPTION DATE

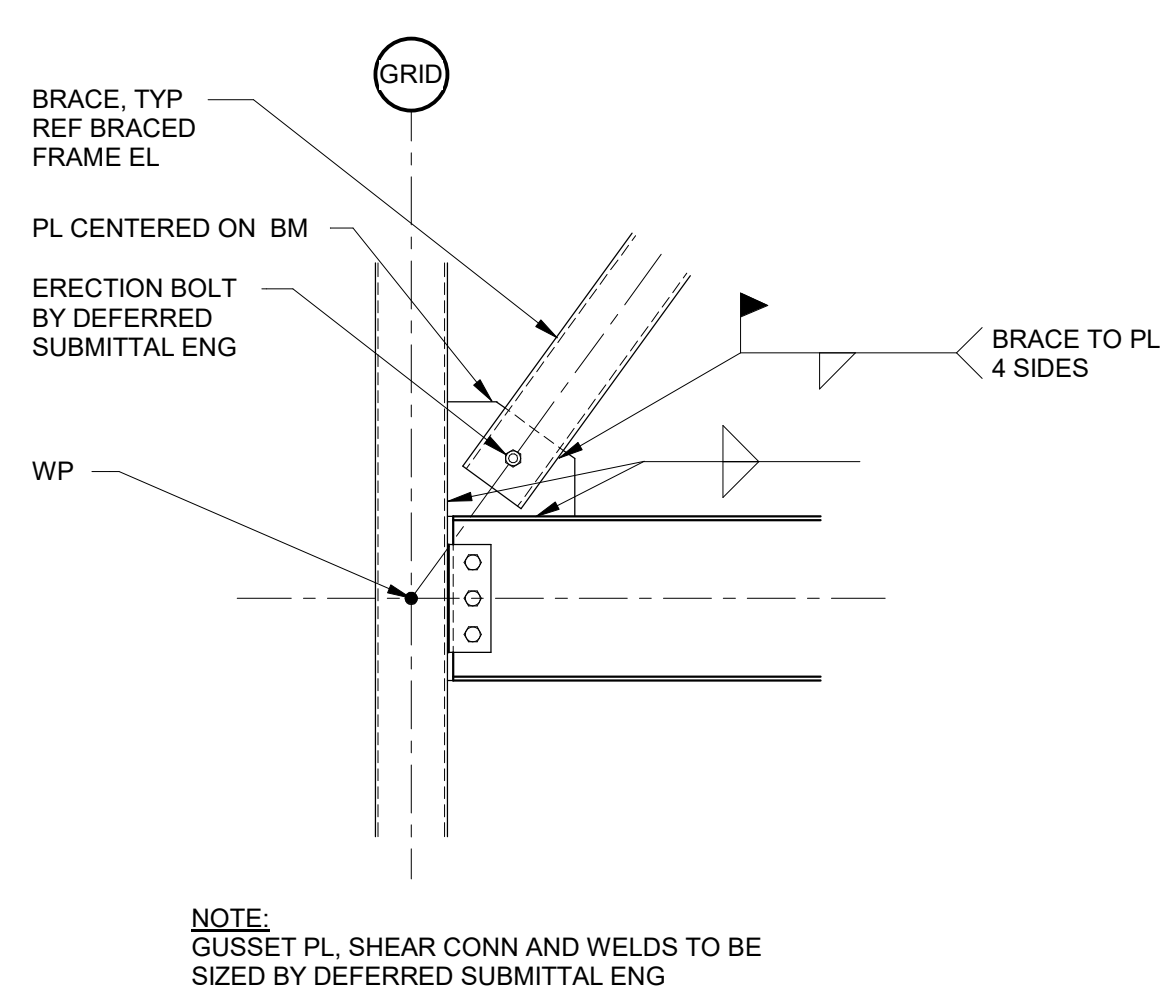
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BRACED FRAME ELEVATIONS

SHEET NUMBER:
S201

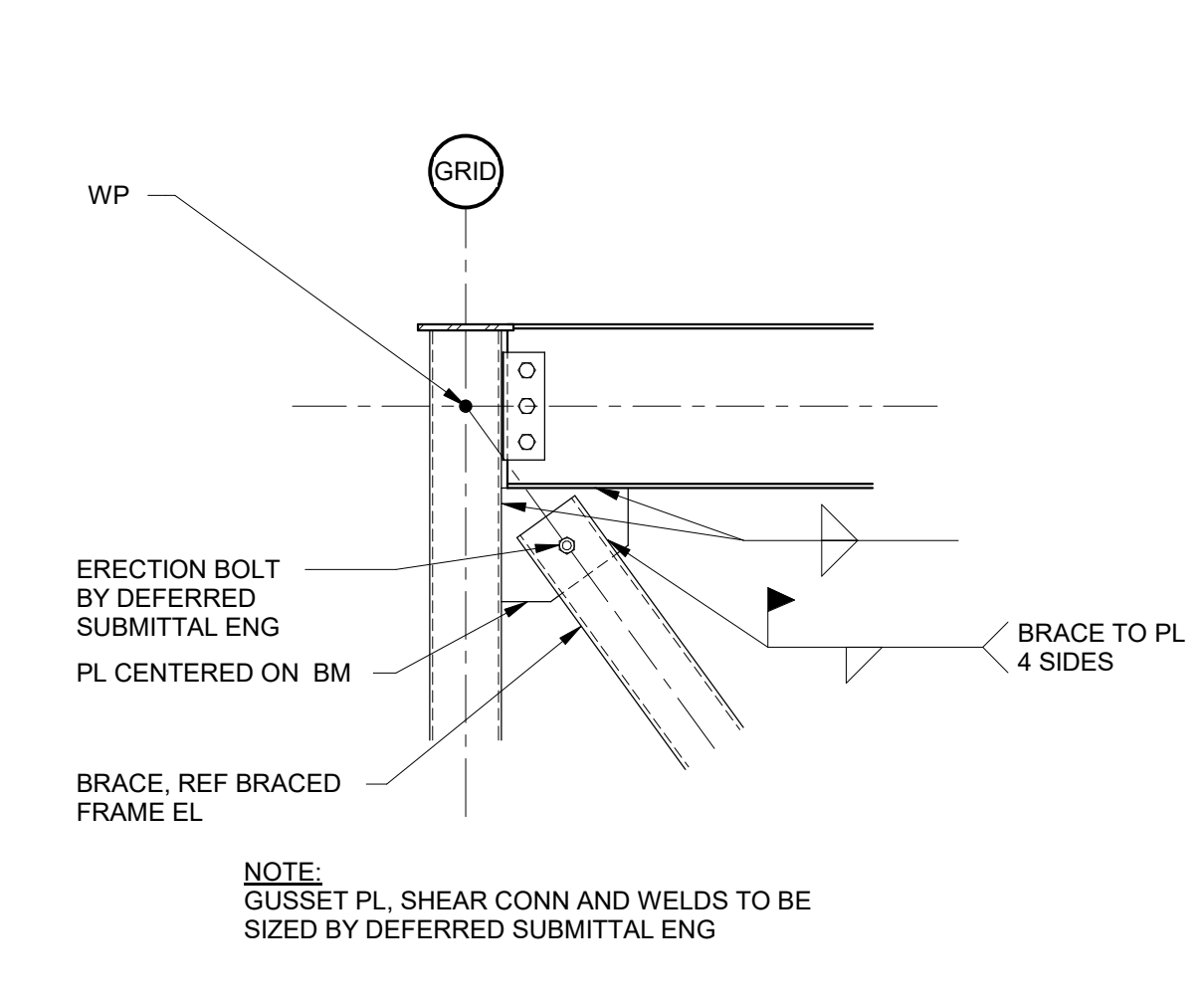
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- STEEL BRACED FRAME NOTES:**
1. P=+/- K INDICATES AXIAL TENSION AND COMPRESSION FORCE IN KIPS (LRFD) IN THE MEMBER.
 2. ALL BRACED FRAME CONN SHALL BE DESIGNED BY THE STL FABRICATOR'S DEFERRED SUBMITTAL ENGINEER.
 3. CONNECTIONS SHALL BE DESIGNED BY USING THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD AND SHALL MEET ALL REQUIREMENTS OF ANS/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" IN THE STEEL CONSTRUCTION MANUAL, ISSUED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
 4. REF FRAMING PLAN FOR GRAVITY LRFD FACTORED BM END REACTIONS FOR CONN DESIGN. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION SHOWN IN THE TYP BM CONN SCHED. REF PLANS FOR LRFD FACTORED AXIAL TENSION AND COMPRESSION FORCES IN BM. GRAVITY LRFD FACTORED BM END REACTIONS SHALL BE COMBINED WITH THE LRFD FACTORED TENSION AND COMPRESSION FORCES DUE TO WIND AND SEISMIC, AS NOTED ON THE FRAMING PLANS FOR CONN DESIGN.
 5. REF PLAN FOR T/STL ELEVATIONS. REF PLAN FOR MEMBER SIZES NOT SHOWN.
 6. PROVIDE SLIP CRITICAL CONN WHERE BOLTS ARE USED.
 7. CENTROIDAL AXES OF BRACED FRAME ELEMENTS SHALL INTERSECT AT COMMON WORK POINTS, UNO.

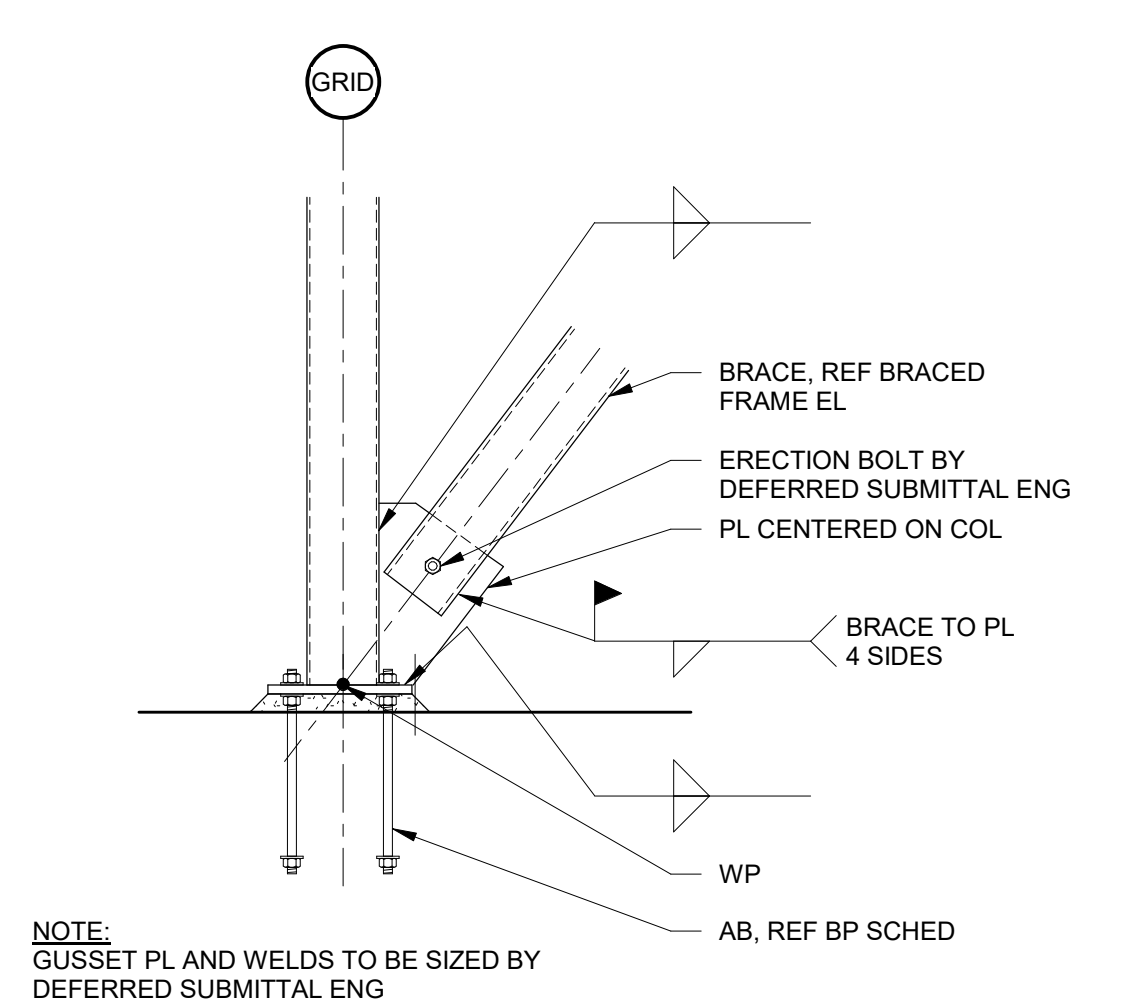
FOR MOMENT FRAMES, REFER TO PLAN FOR LRFD MOMENT CONN REQUIREMENTS.



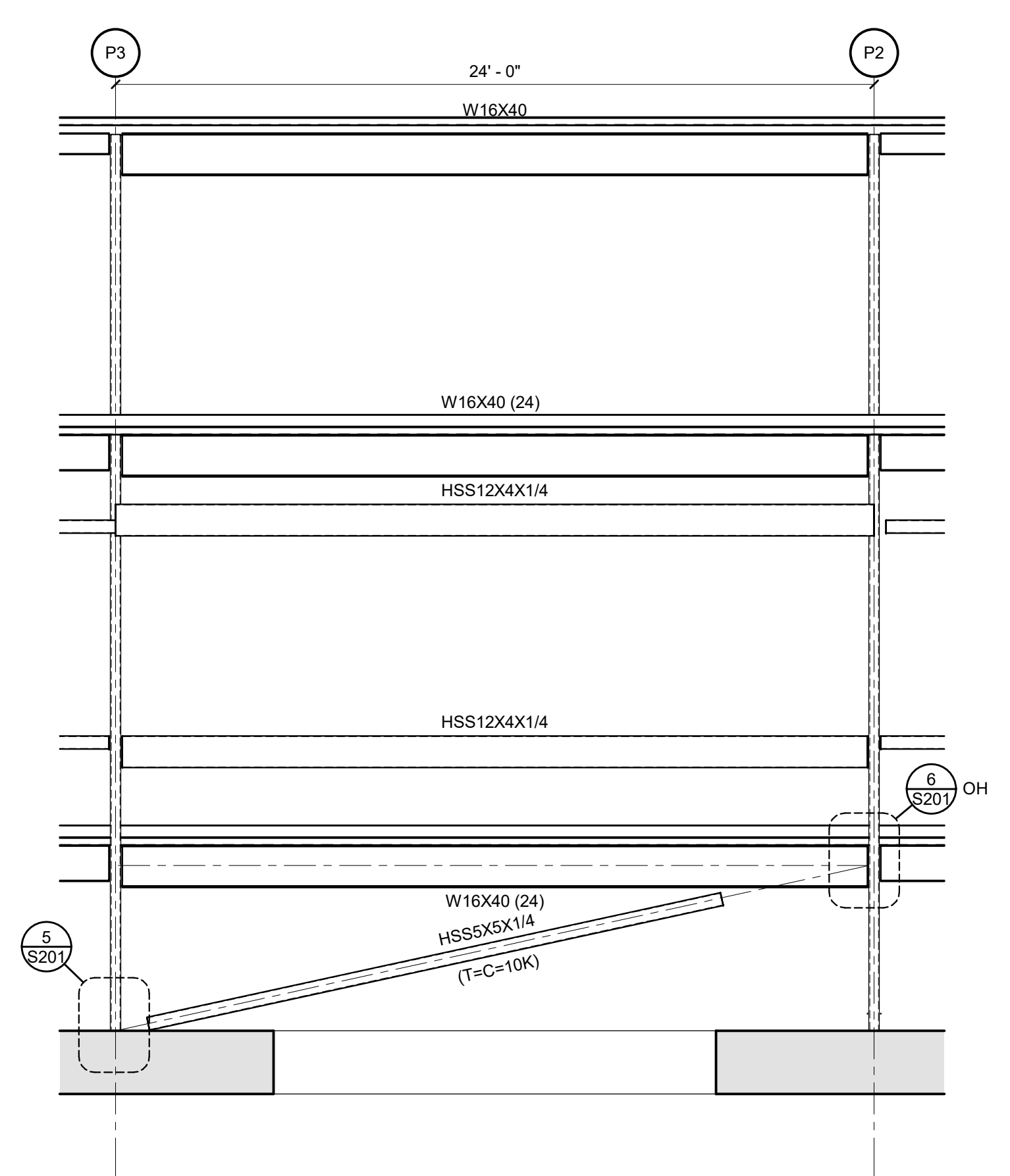
7 BRACE DETAIL - BEAM TO COL - ELEVATED INTERSECTION
3/4" = 1'-0"



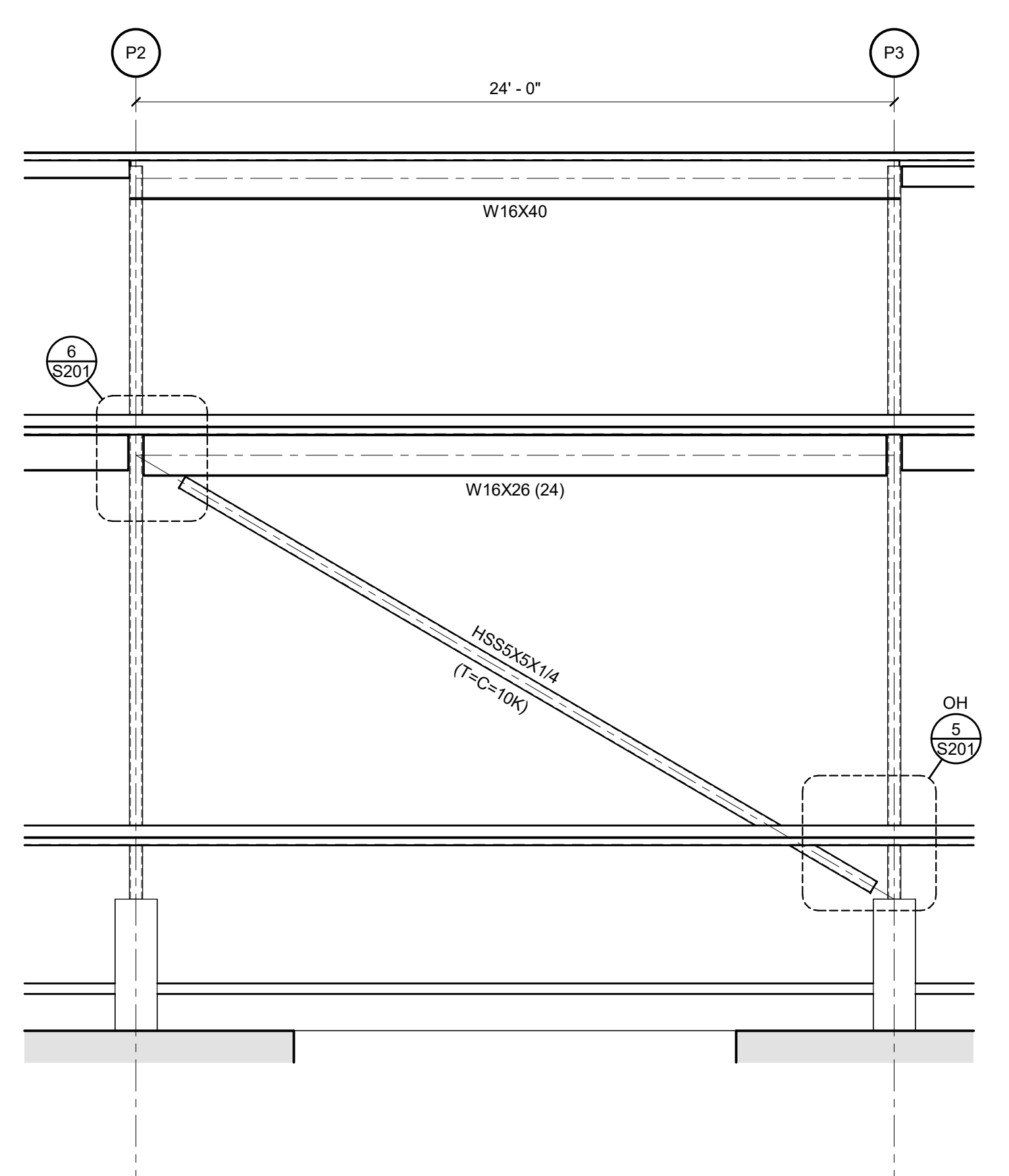
6 BRACE DETAIL - BEAM TO COL INTERSECTION
3/4" = 1'-0"



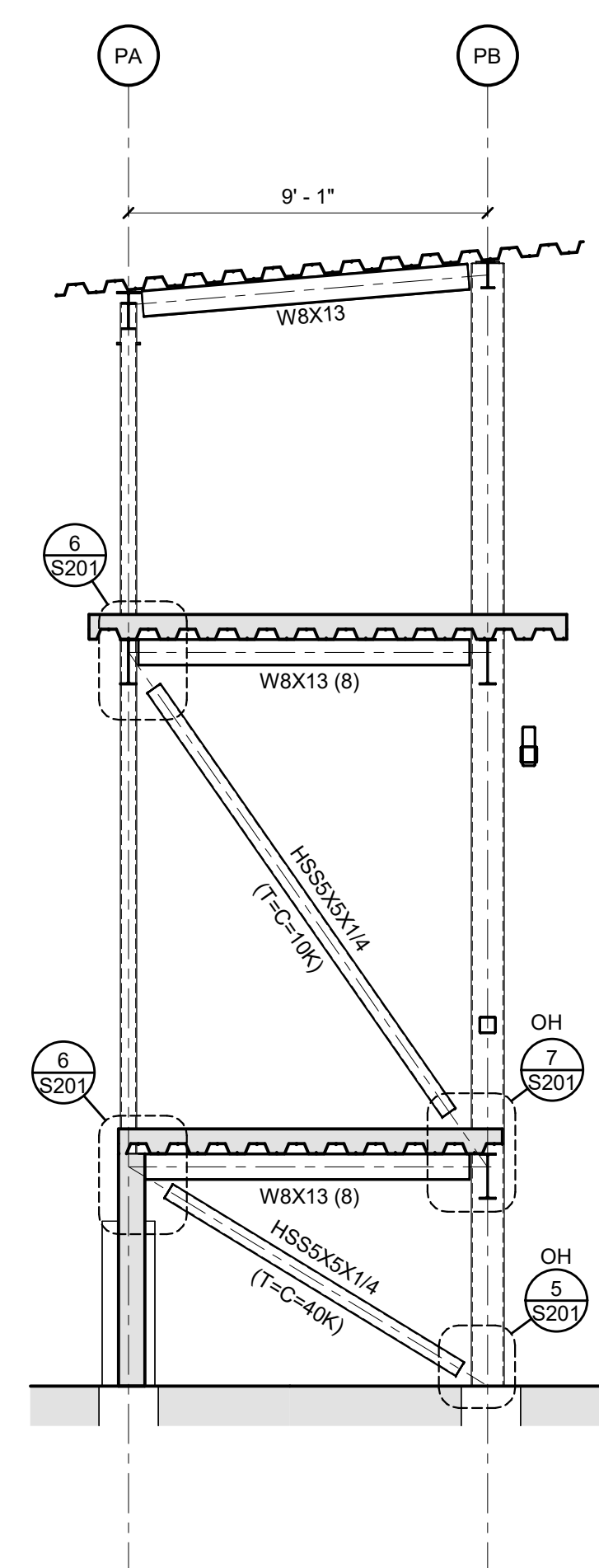
5 BRACE DETAIL - BASE PLATE
3/4" = 1'-0"



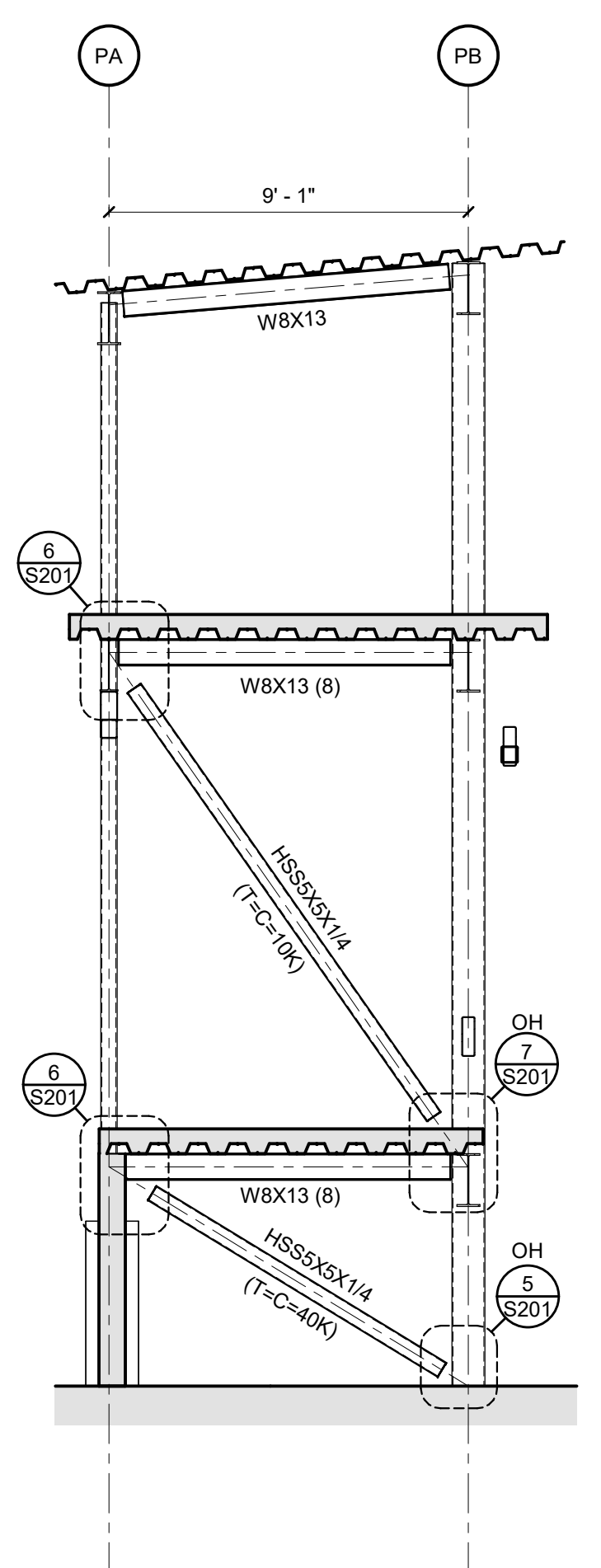
4 BRACED FRAME ELEVATION ALONG GRID PA
1/4" = 1'-0"



3 BRACED FRAME ELEVATION ALONG GRID PA
1/4" = 1'-0"



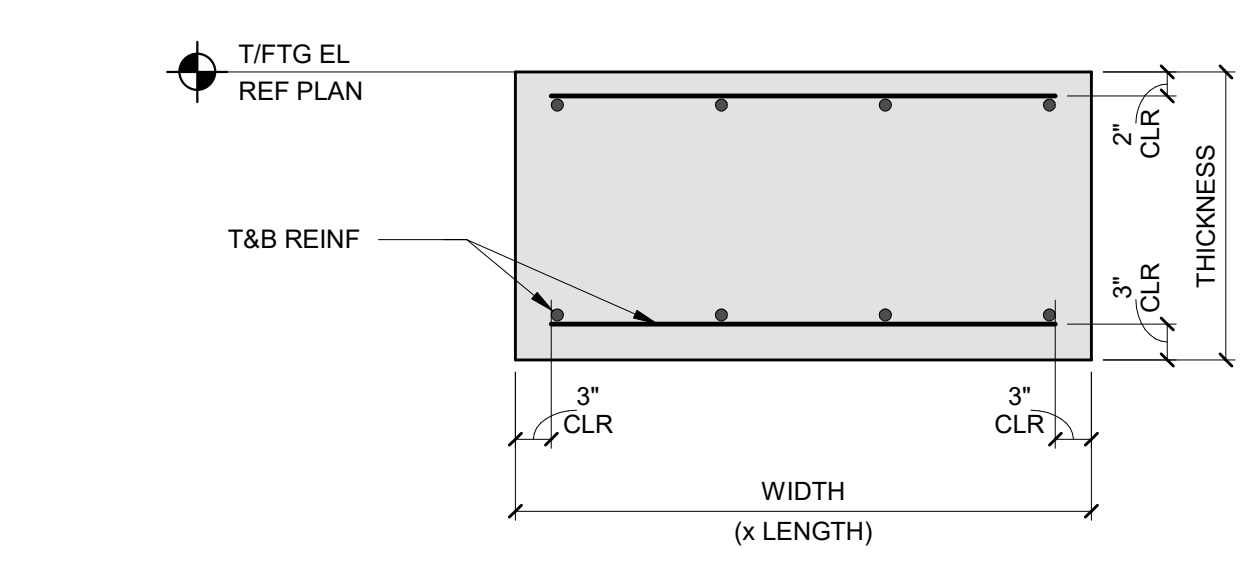
2 BRACED FRAME ELEVATION ALONG GRID P3
1/4" = 1'-0"



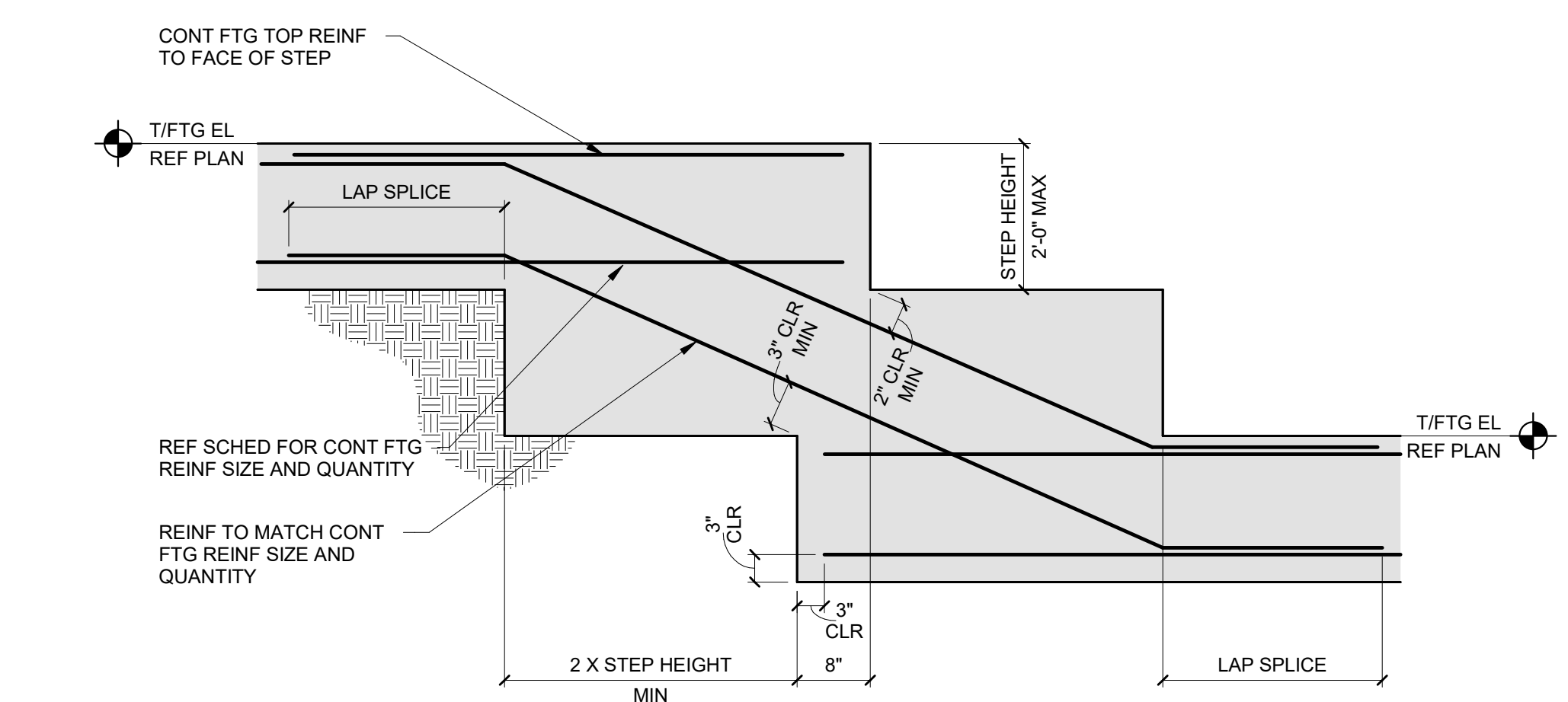
1 BRACED FRAME ELEVATION ALONG GRID P2
1/4" = 1'-0"

1/20/2024 4:44:28 PM

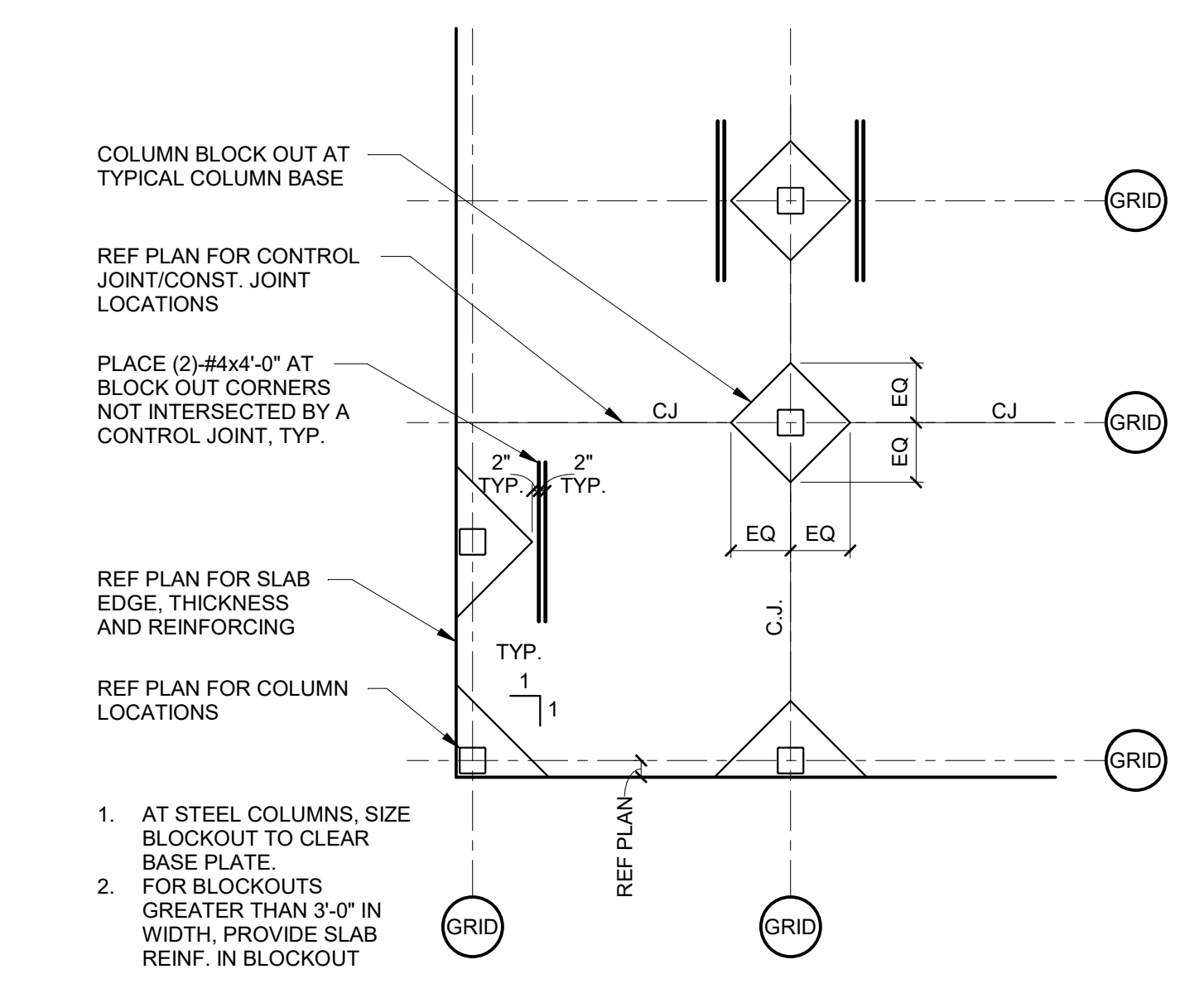
FOOTING SCHEDULE					NOTES
MARK	LENGTH	SIZE	THICKNESS	TOP AND BOTTOM REINFORCING	
F1	4'-0"	4'-0"	2'-0"	(4)#5 EW	
F2	10'-0"	10'-0"	2'-0"	(9)#5 EW	



10 FOOTING SCHEDULE AND DIAGRAM
NTS

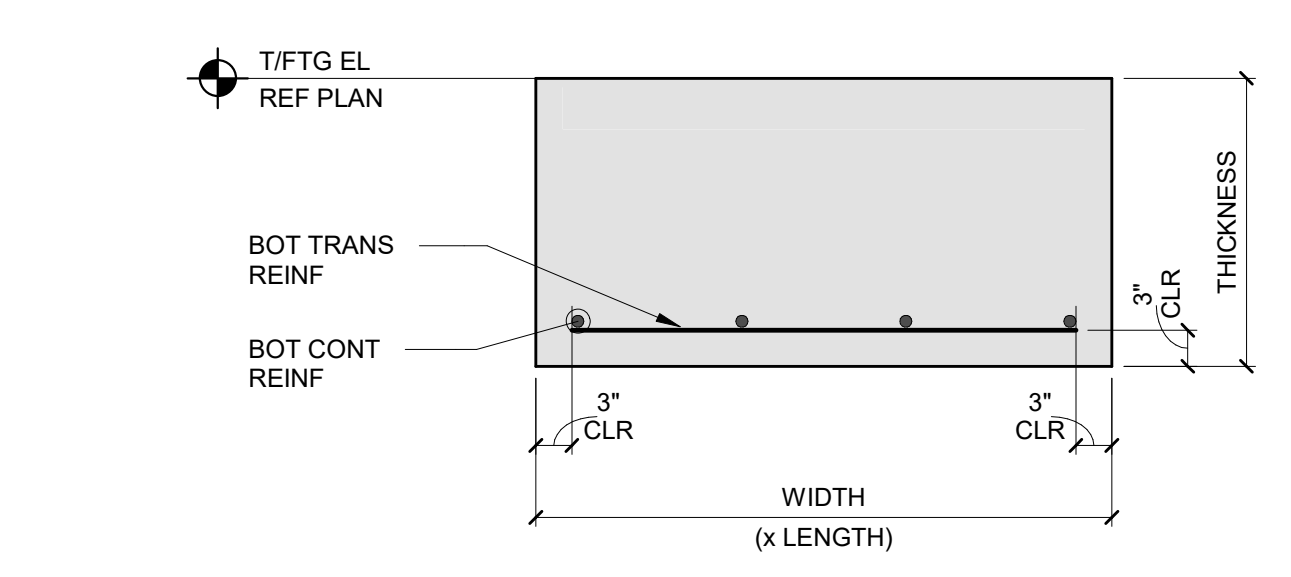


11 FOOTING STEP DETAIL
3/4\"/>

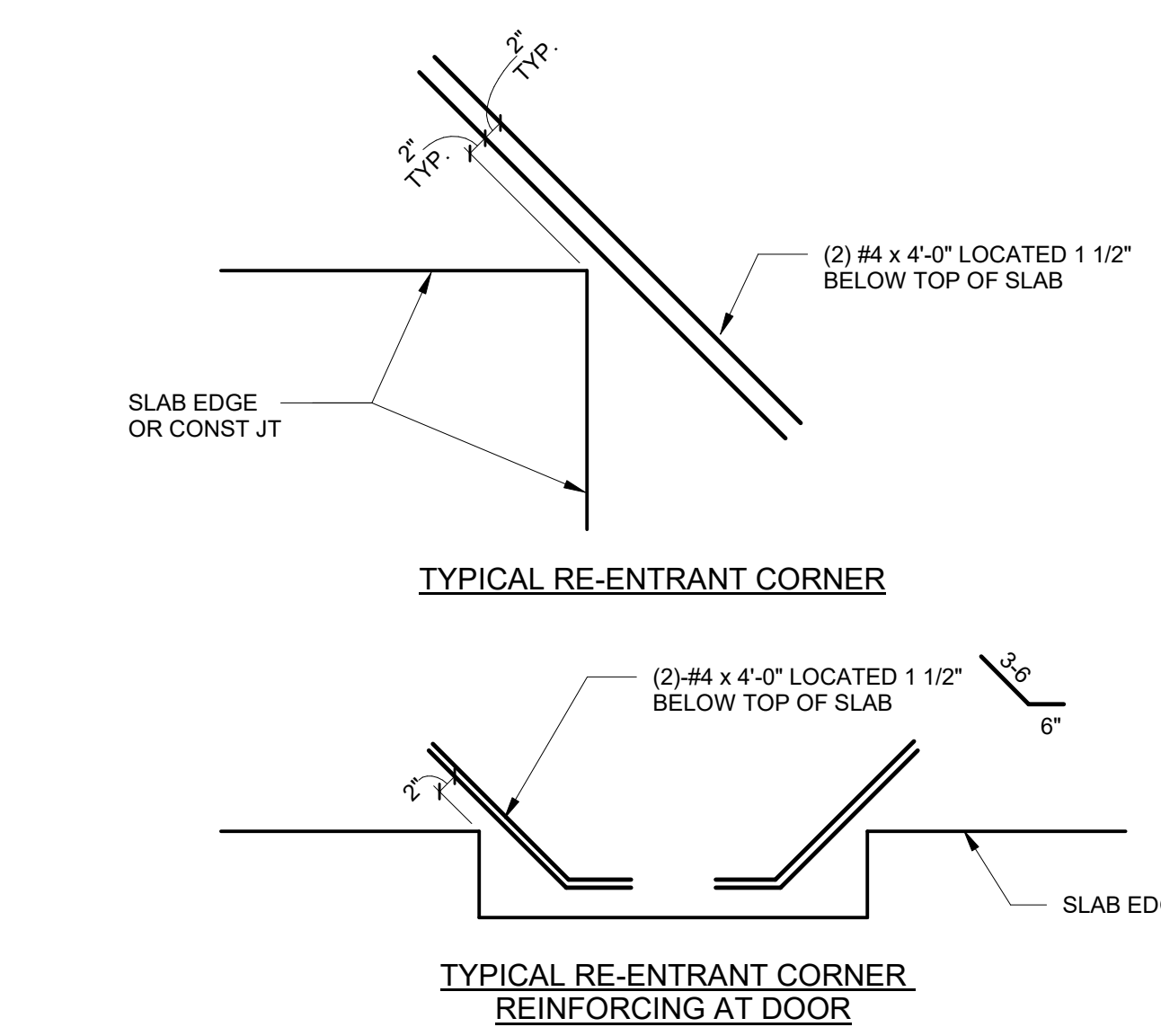


12 TYPICAL COLUMN BLOCKOUT
1/4\"/>

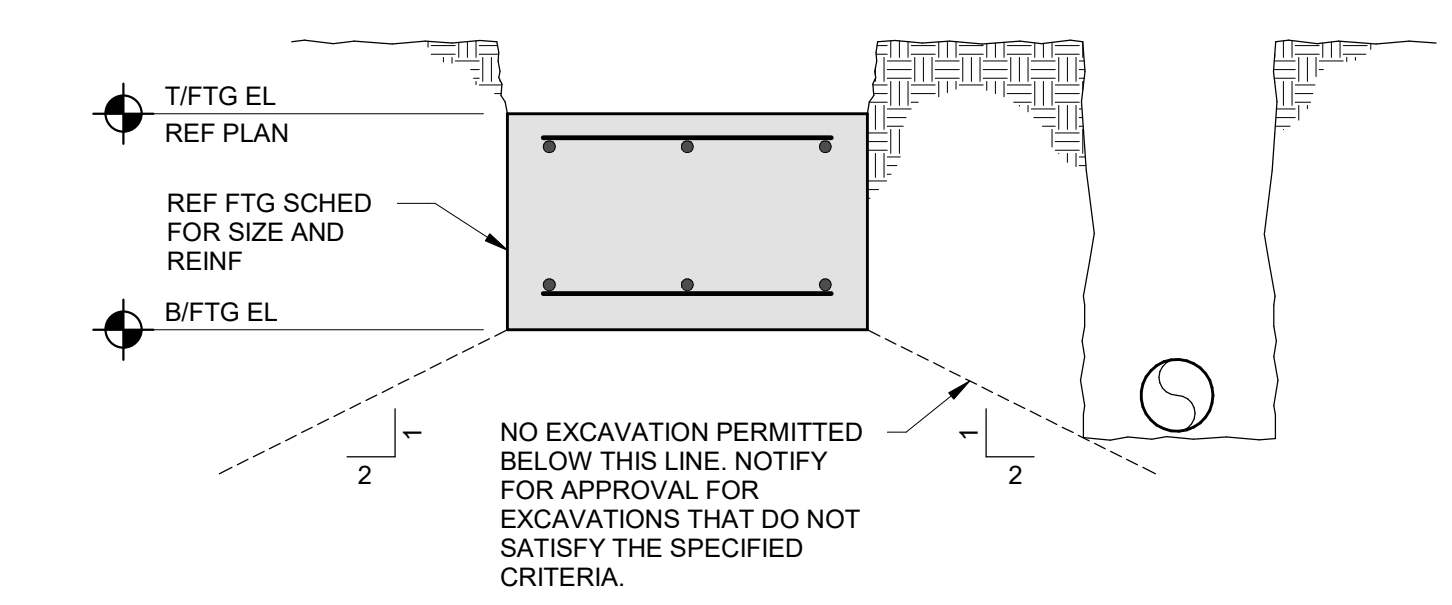
CONTINUOUS FOOTING SCHEDULE					NOTES
MARK	SIZE	REINFORCING			
	WIDTH	HEIGHT	BOTTOM	TRANSVERSE	
CF1	1'-6"	2'-0"	(2) - #6	#6 AT 12\"/>	
CF2	2'-0"	2'-0"	(3) - #6	#6 AT 12\"/>	
CF3	3'-0"	2'-0"	<varies>	#6 AT 12\"/>	



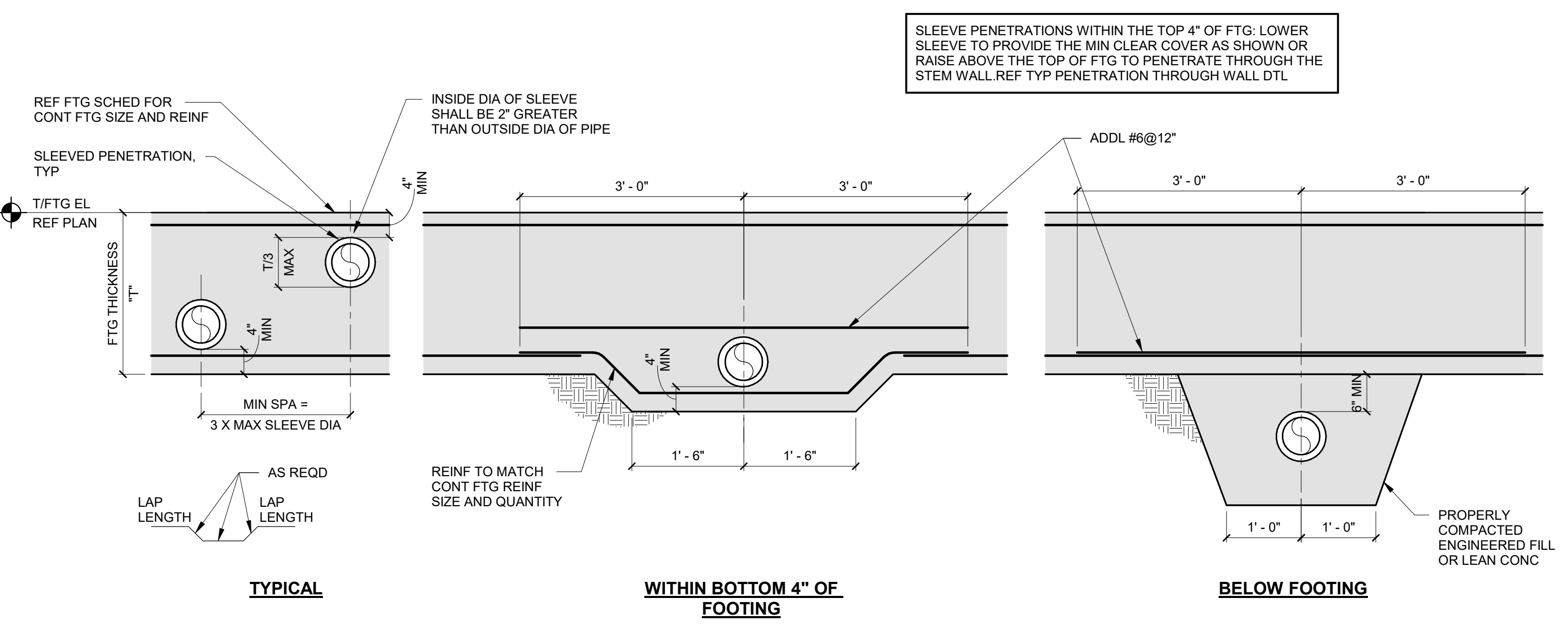
9 CONTINUOUS FOOTING SCHEDULE AND DIAGRAM
NTS



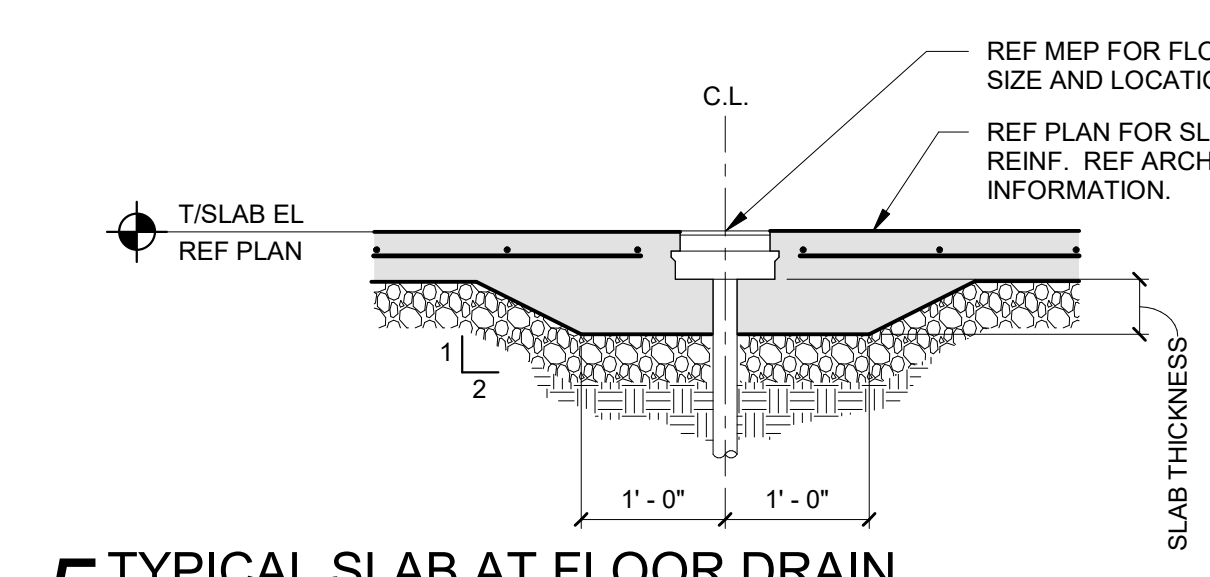
8 SLAB REINFORCEMENT
3/4\"/>



7 EXCAVATION ADJACENT TO FOOTINGS
3/4\"/>



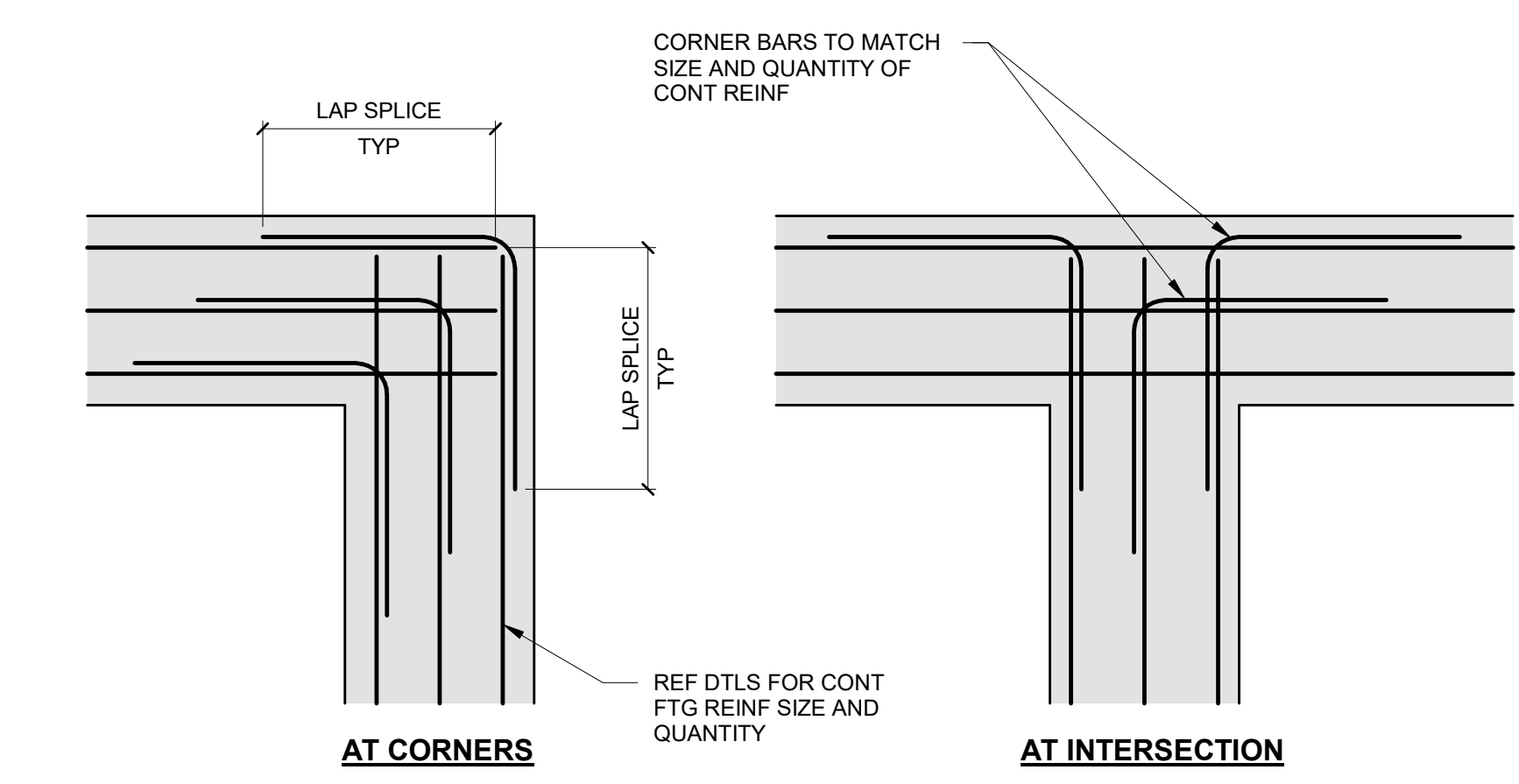
6 PENETRATION THROUGH FOOTING
3/4\"/>



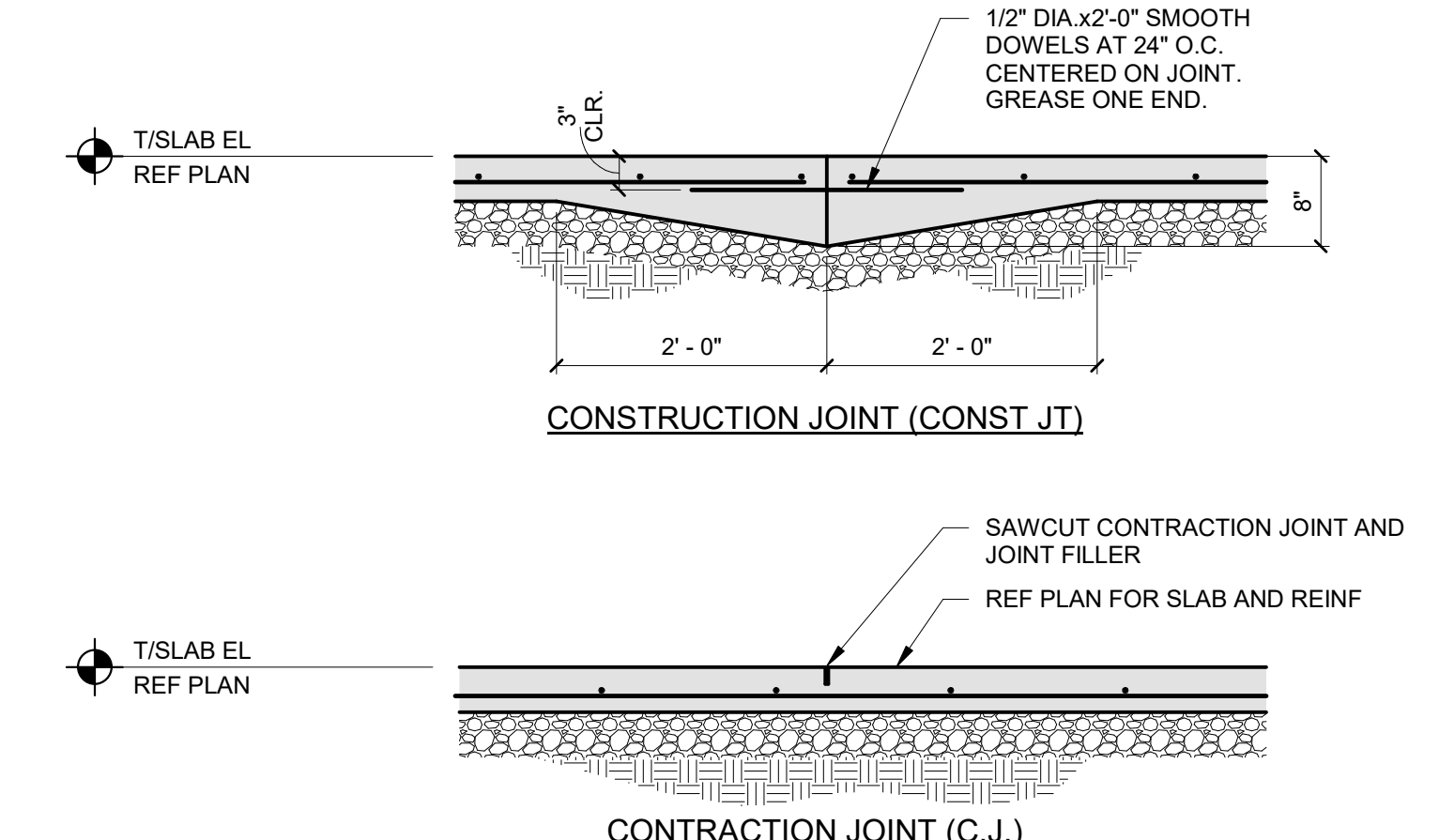
5 TYPICAL SLAB AT FLOOR DRAIN
3/4\"/>

CONCRETE REINFORCING LAP SCHEDULE		
BAR SIZE	TOP BARS	OTHER
#3	28"	22"
#4	38"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"
#10	118"	91"

4 CONCRETE REINFORCING LAP SCHEDULE
3/4\"/>

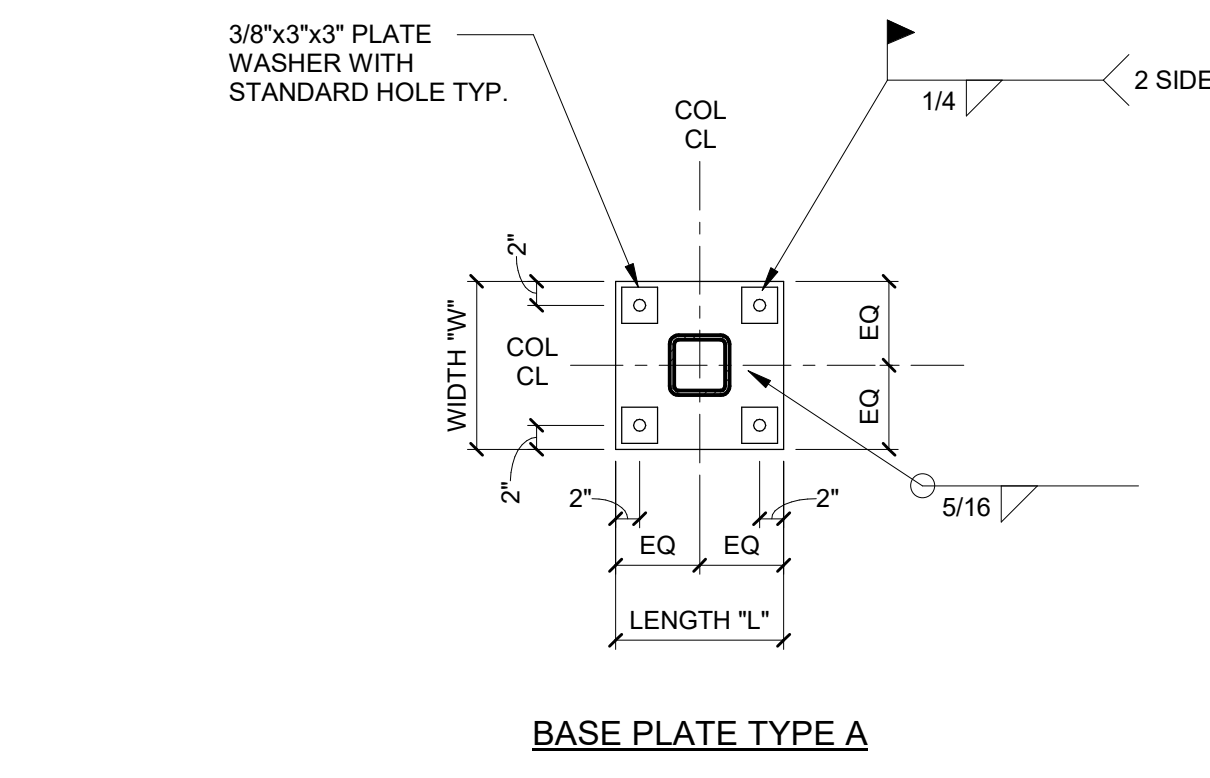


3 CORNER BAR DETAIL
3/4\"/>

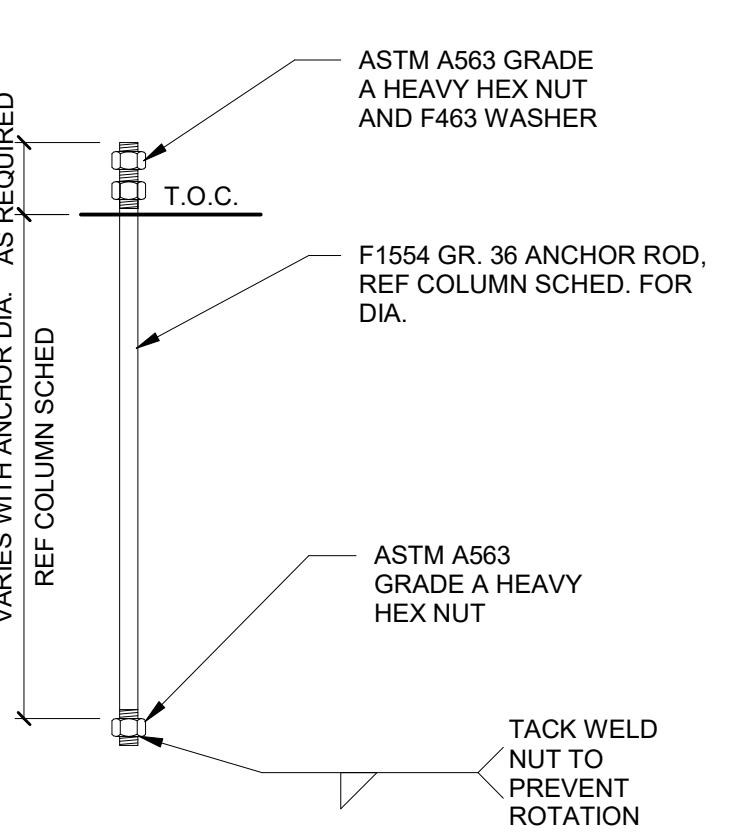
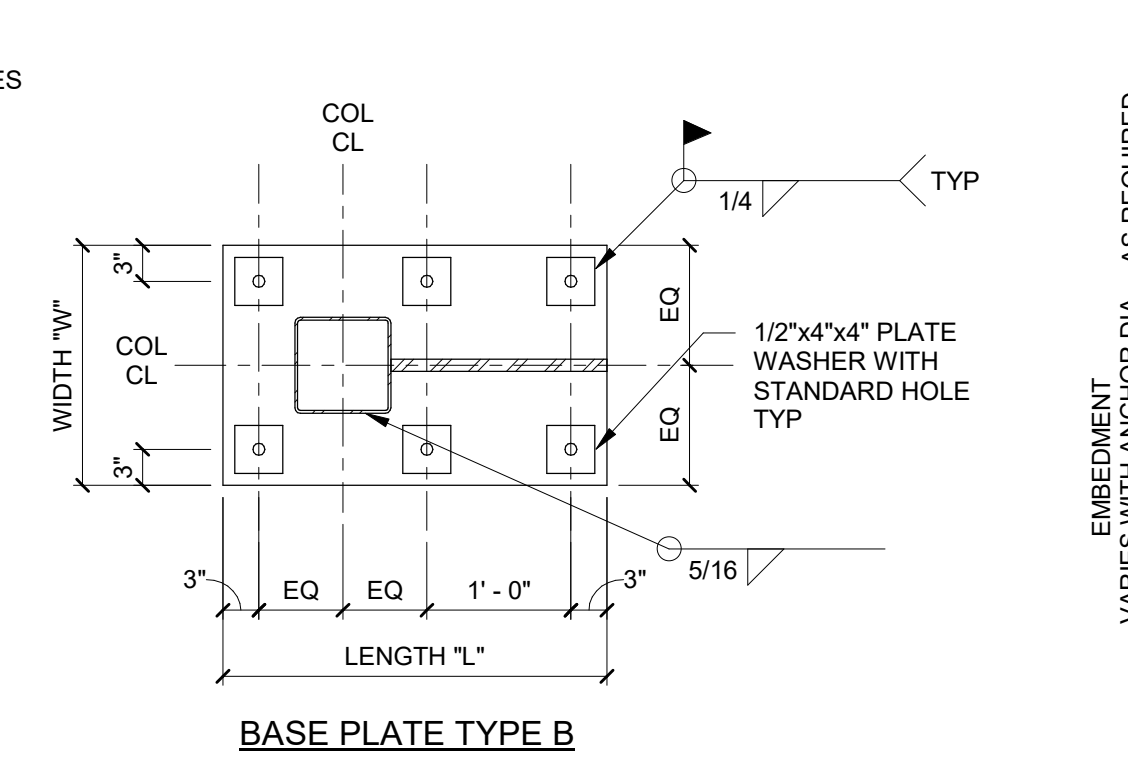


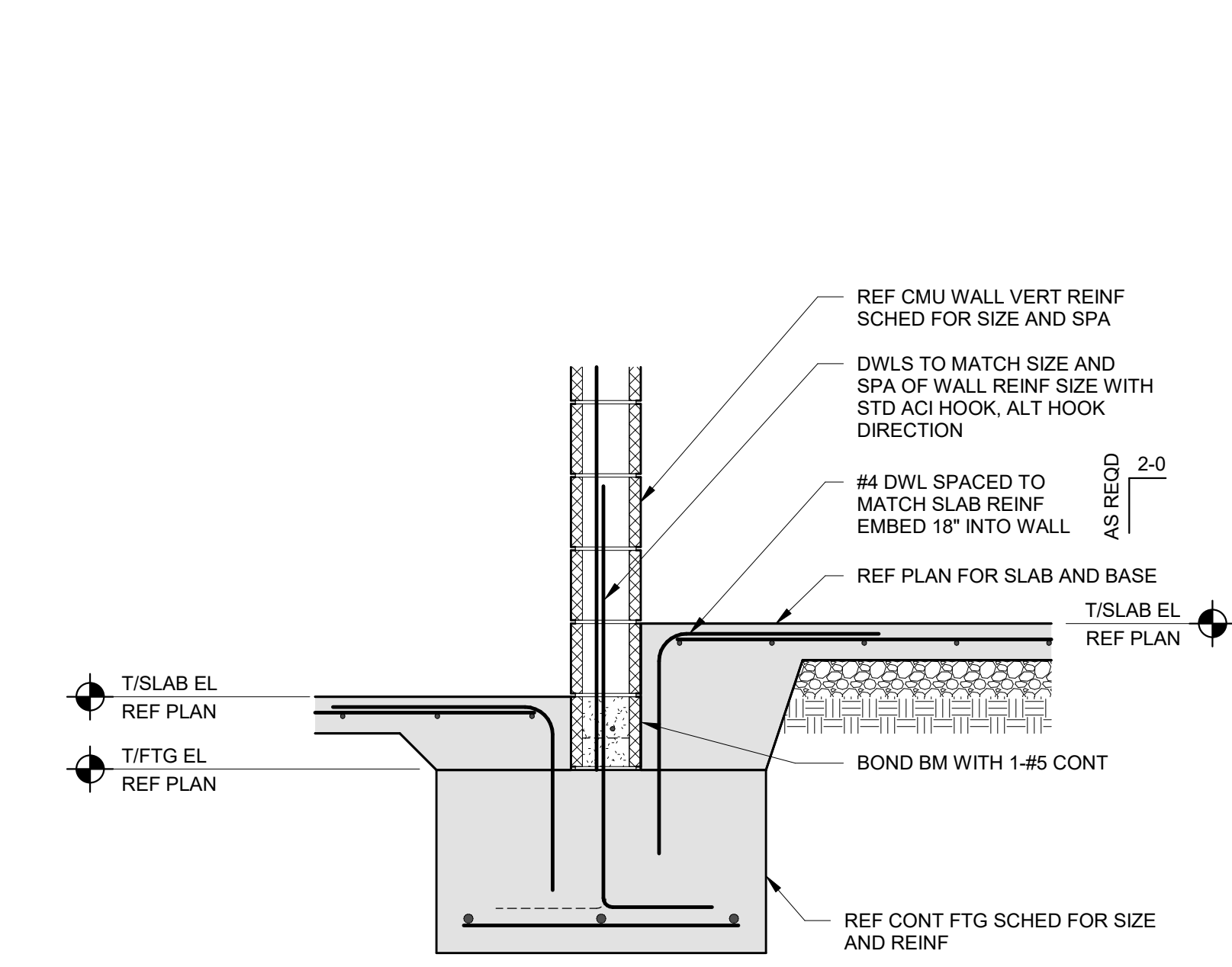
2 TYPICAL SLAB JOINT DETAILS
3/4\"/>

STEEL COLUMN SCHEDULE							NOTES		
MARK	TYPE	BASE PLATE			ANCHOR RODS				
		TYPE	T	W	L	NUMBER	DIA	EMBED	
C1	HSS5X5X3/8	A	3/4"	12"	1'-0"	4	1"	1'-0"	
C2	HSS10X4X3/8	B	1 1/4"	18"	2'-6"	6	1 1/4"	1'-0"	

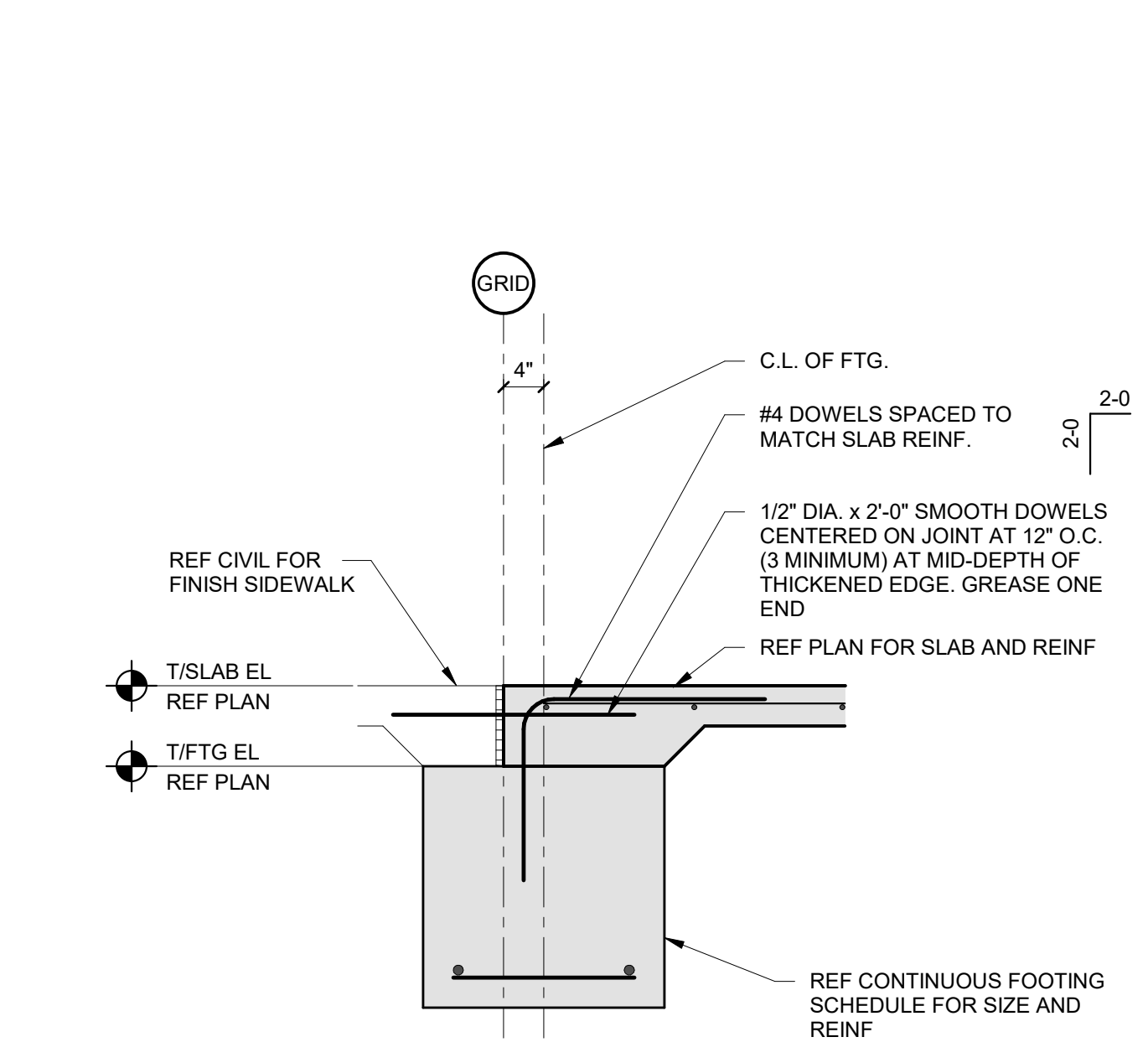


1 ANCHOR ROD AND BASEPLATE DIAGRAM
3/4\"/>

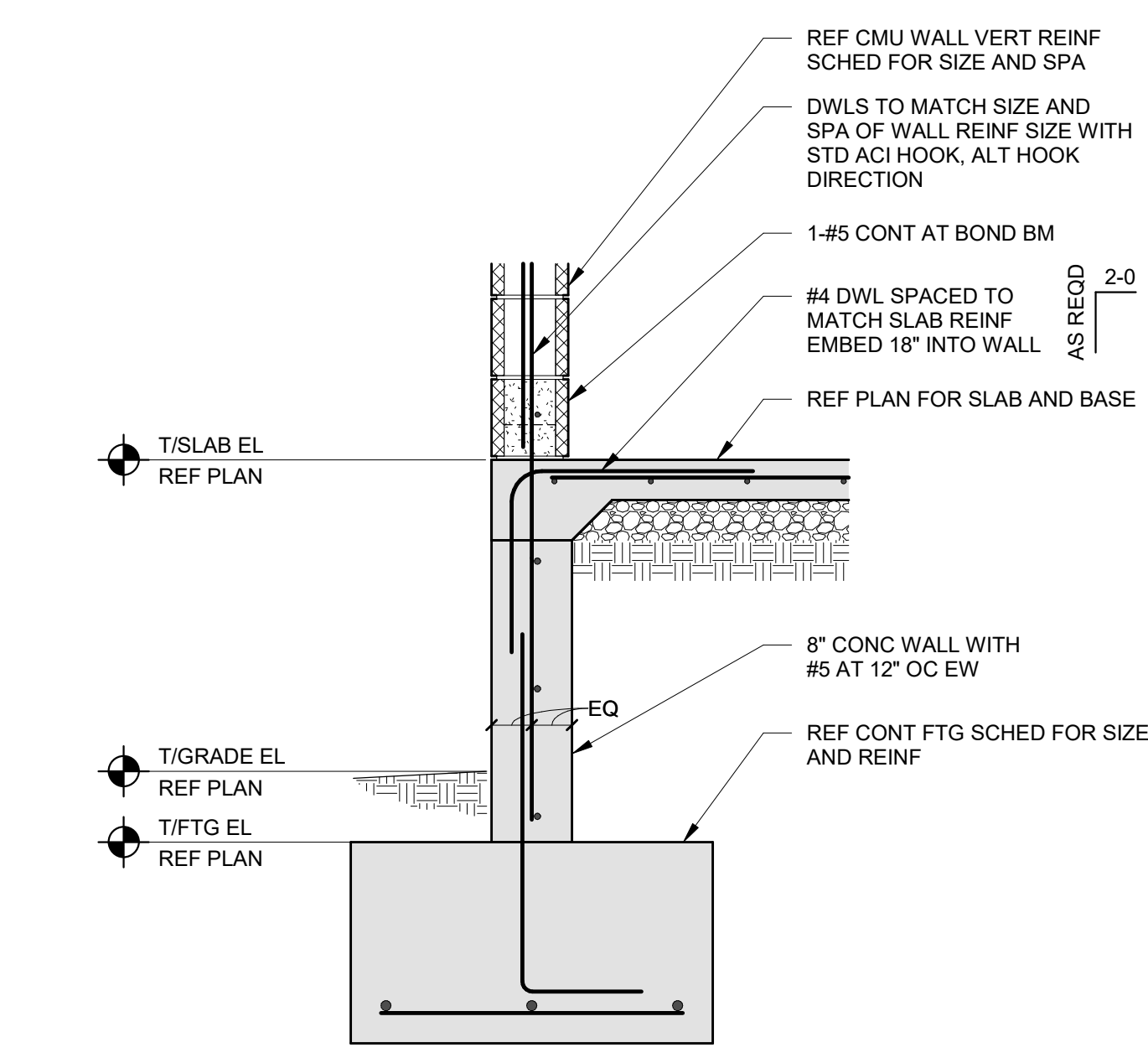




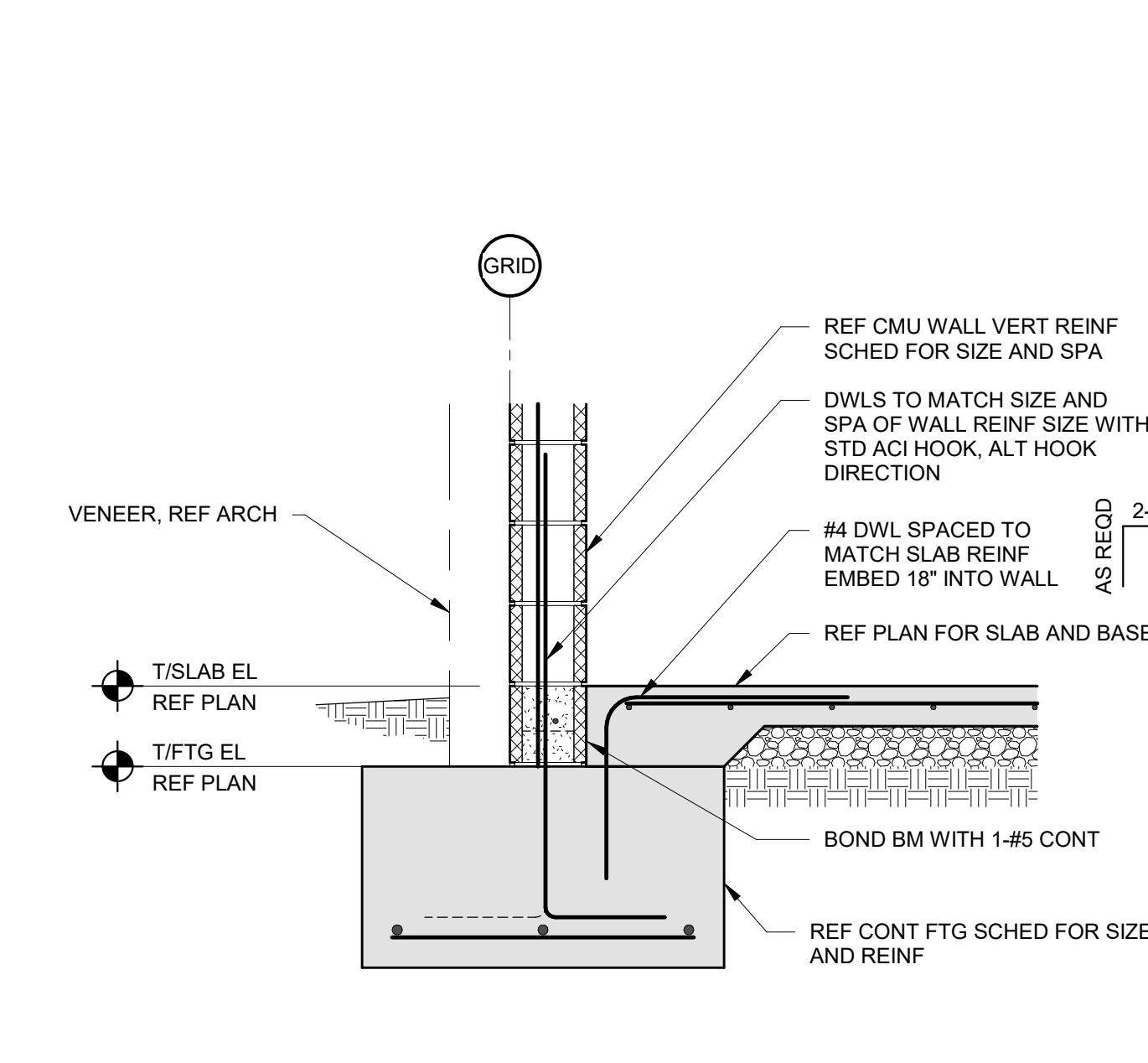
6 FOUNDATION DETAIL
3/4" = 1'-0"



5 FOUNDATION DETAIL
3/4" = 1'-0"



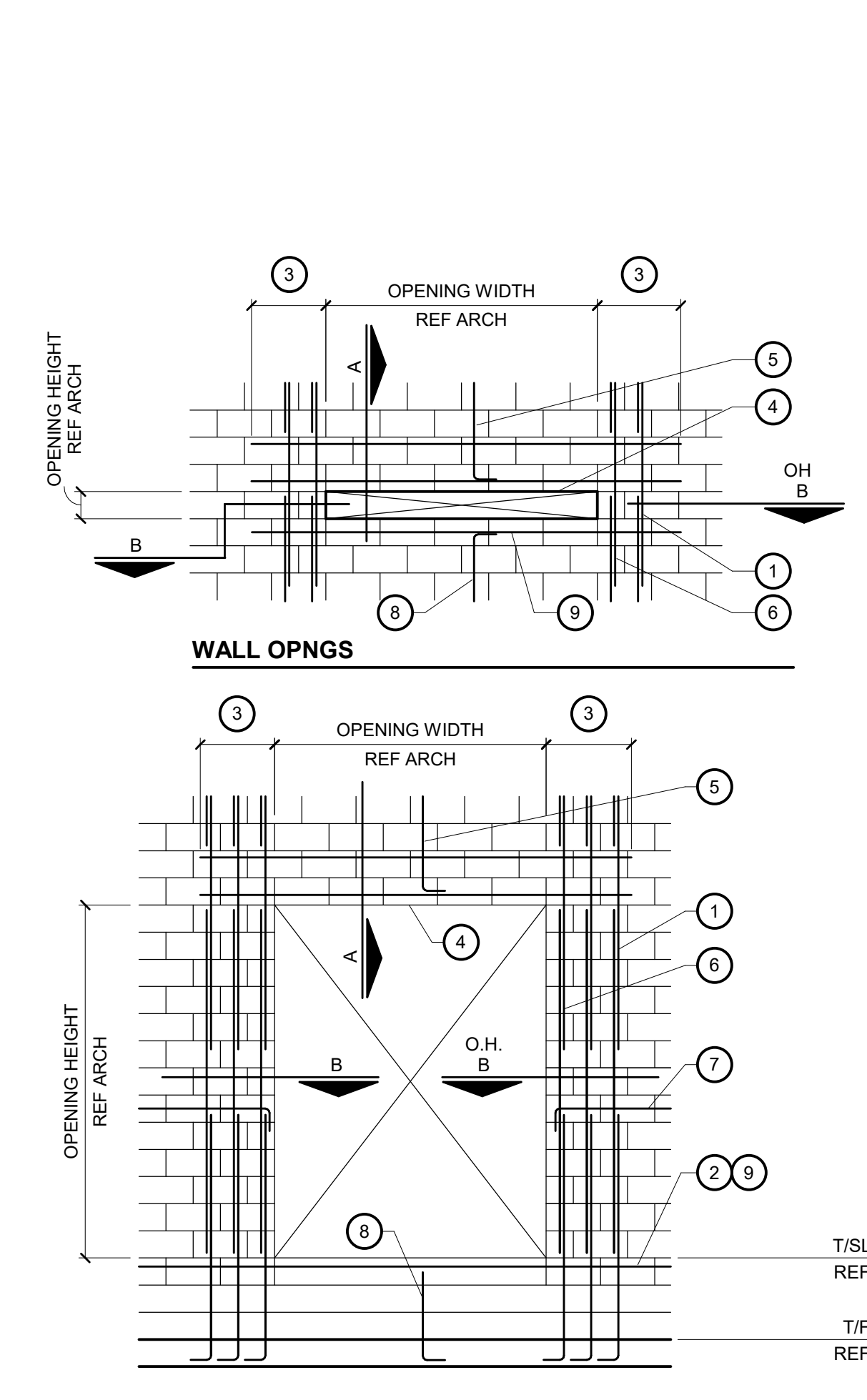
4 FOUNDATION DETAIL
3/4" = 1'-0"



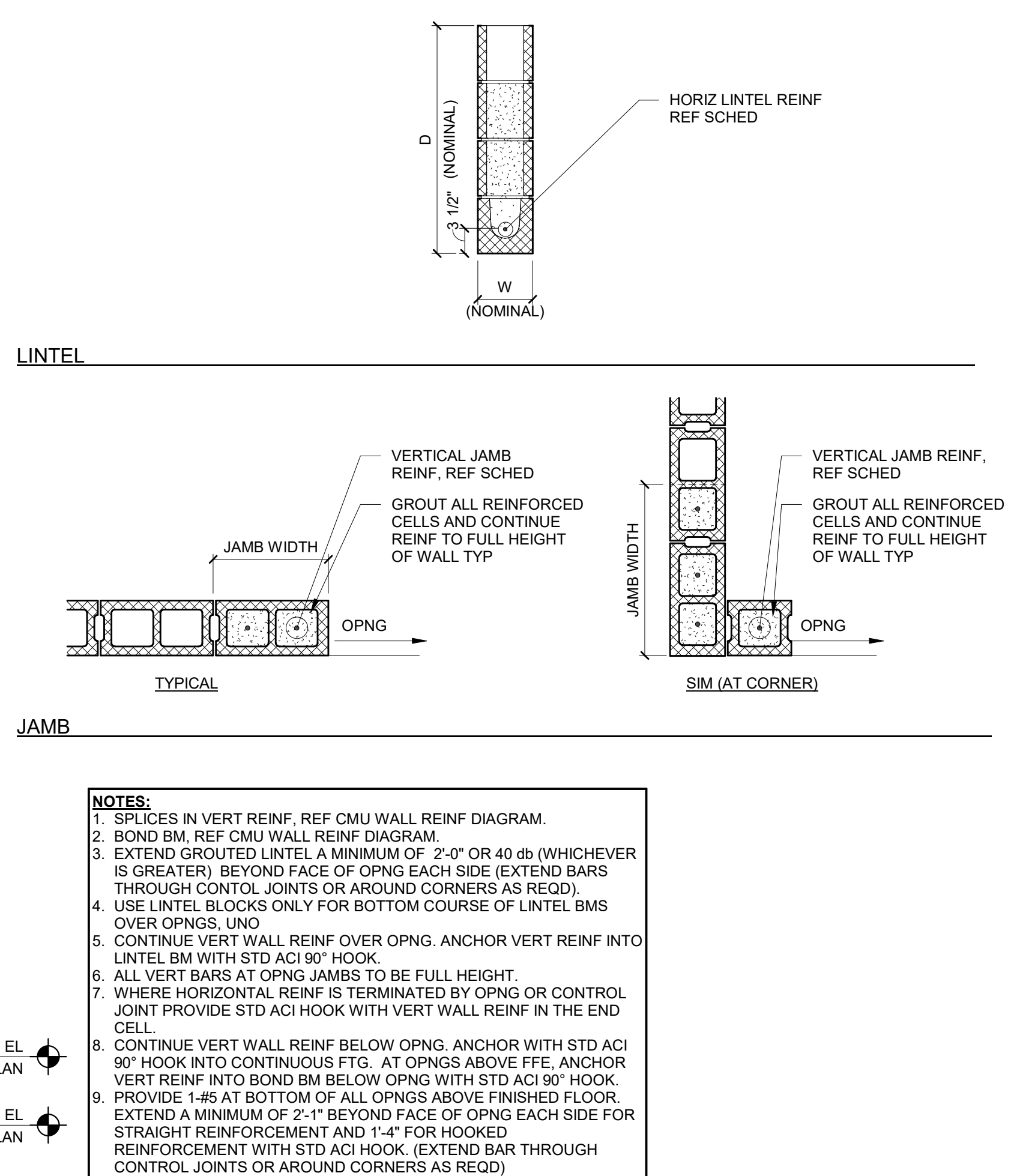
3 EXTERIOR WALL FOOTING
3/4" = 1'-0"

CMU LINTEL AND JAMB SCHEDULE						
CMU WALL ID	CMU WIDTH (W)	MAX OPENING WIDTH	LINTEL HEIGHT (D)	LINTEL REINF	JAMB WIDTH	JAMB REINF
MW-1	8"	5'-4"	8"	1-#5 BOT	16"	1-#5 PER CELL

CMU WALL SCHEDULE			
WALL LABEL	THICKNESS	VERT REINF	NOTES
MW-1	8"	#5 AT 48" OC	

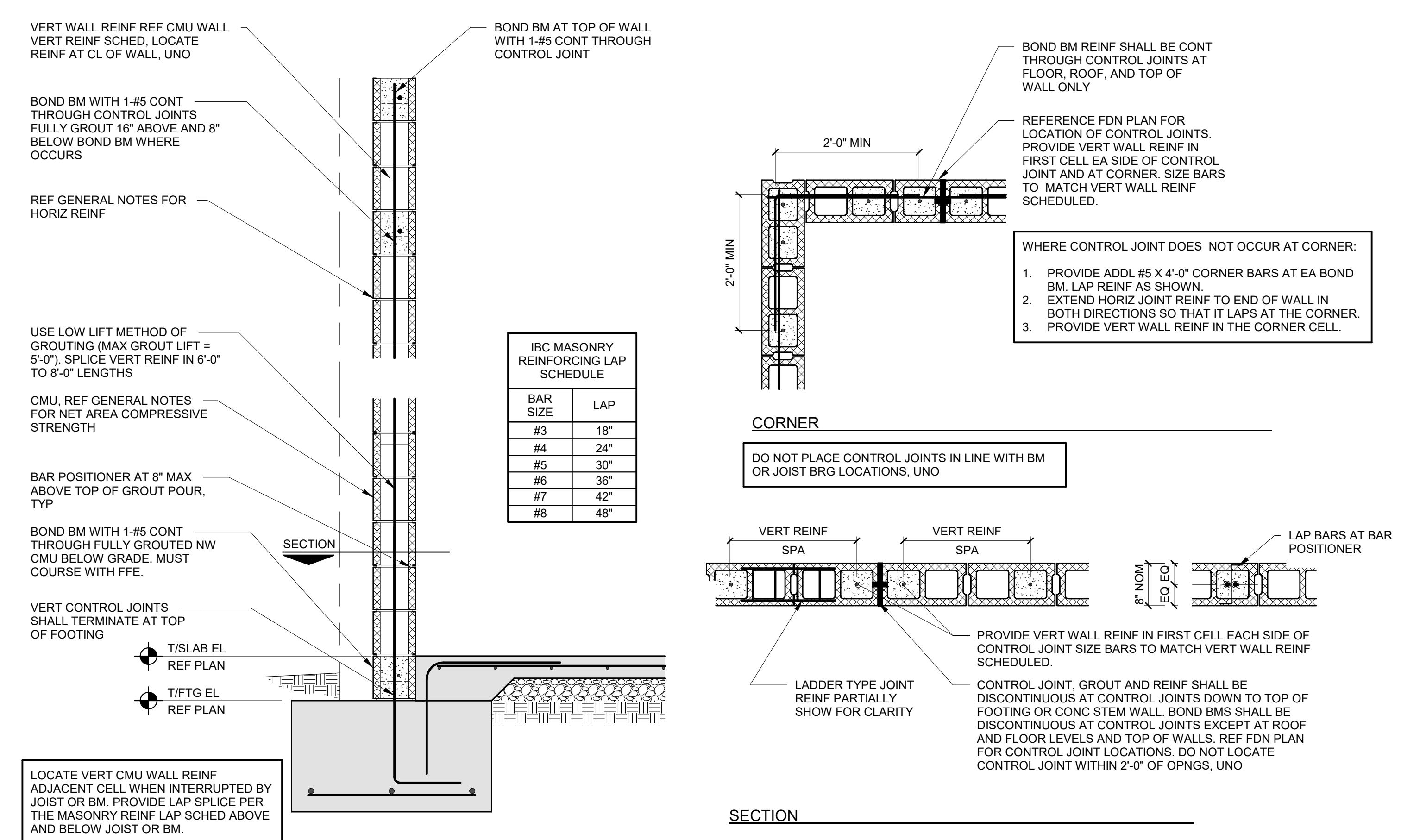


2 TYPICAL MASONRY WALL OPENING DIAGRAM AND SCHEDULE
3/4" = 1'-0"

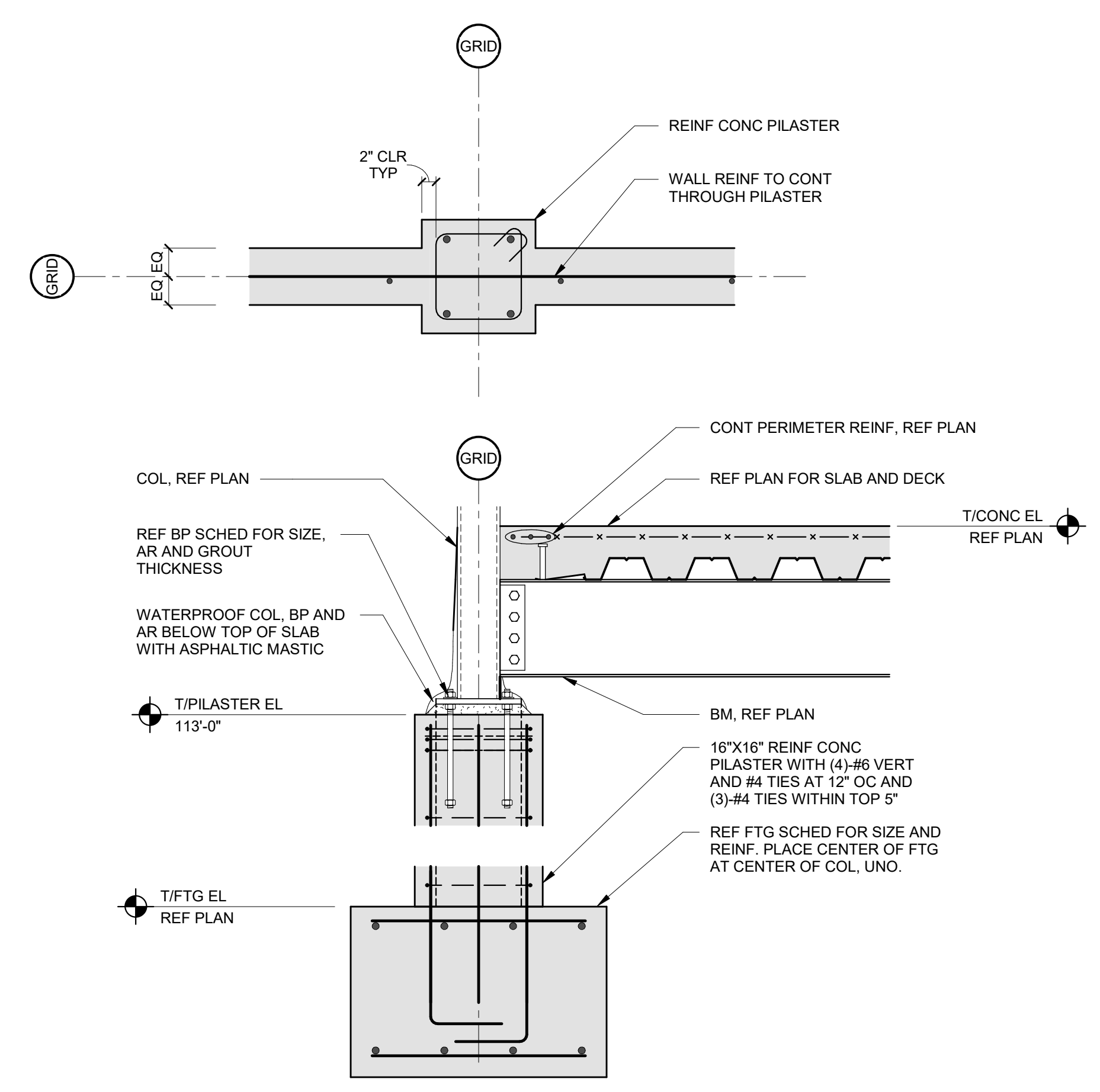


- NOTES:**
1. SPLICES IN VERT REINF. REF CMU WALL REINF DIAGRAM.
 2. BOND BM. REF CMU WALL REINF DIAGRAM.
 3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" OR 40 db (WHICHEVER IS GREATER) BEYOND FACE OF OPNG EACH SIDE (EXTEND BARS THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQD).
 4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BMS OVER OPNGS. UNO
 5. CONTINUE VERT WALL REINF OVER OPNG. ANCHOR VERT REINF INTO LINTEL BM WITH STD ACI 90° HOOK.
 6. ALL VERT BARS AT OPNG JAMBS TO BE FULL HEIGHT.
 7. WHERE HORIZONTAL REINF IS TERMINATED BY OPNG OR CONTROL JOINT PROVIDE STD ACI HOOK WITH VERT WALL REINF IN THE END CELL.
 8. CONTINUE VERT WALL REINF BELOW OPNG. ANCHOR WITH STD ACI 90° HOOK INTO CONTINUOUS FTG. AT OPNGS ABOVE FFE, ANCHOR VERT REINF INTO BOND BM BELOW OPNG WITH STD ACI 90° HOOK.
 9. PROVIDE 1-#5 AT BOTTOM OF ALL OPNGS ABOVE FINISHED FLOOR. EXTEND A MINIMUM OF 2'-1" BEYOND FACE OF OPNG EACH SIDE FOR STRAIGHT REINFORCEMENT AND 1'-4" FOR HOOKED REINFORCEMENT WITH STD ACI HOOK. (EXTEND BAR THROUGH CONTROL JOINTS OR AROUND CORNERS AS REQD)

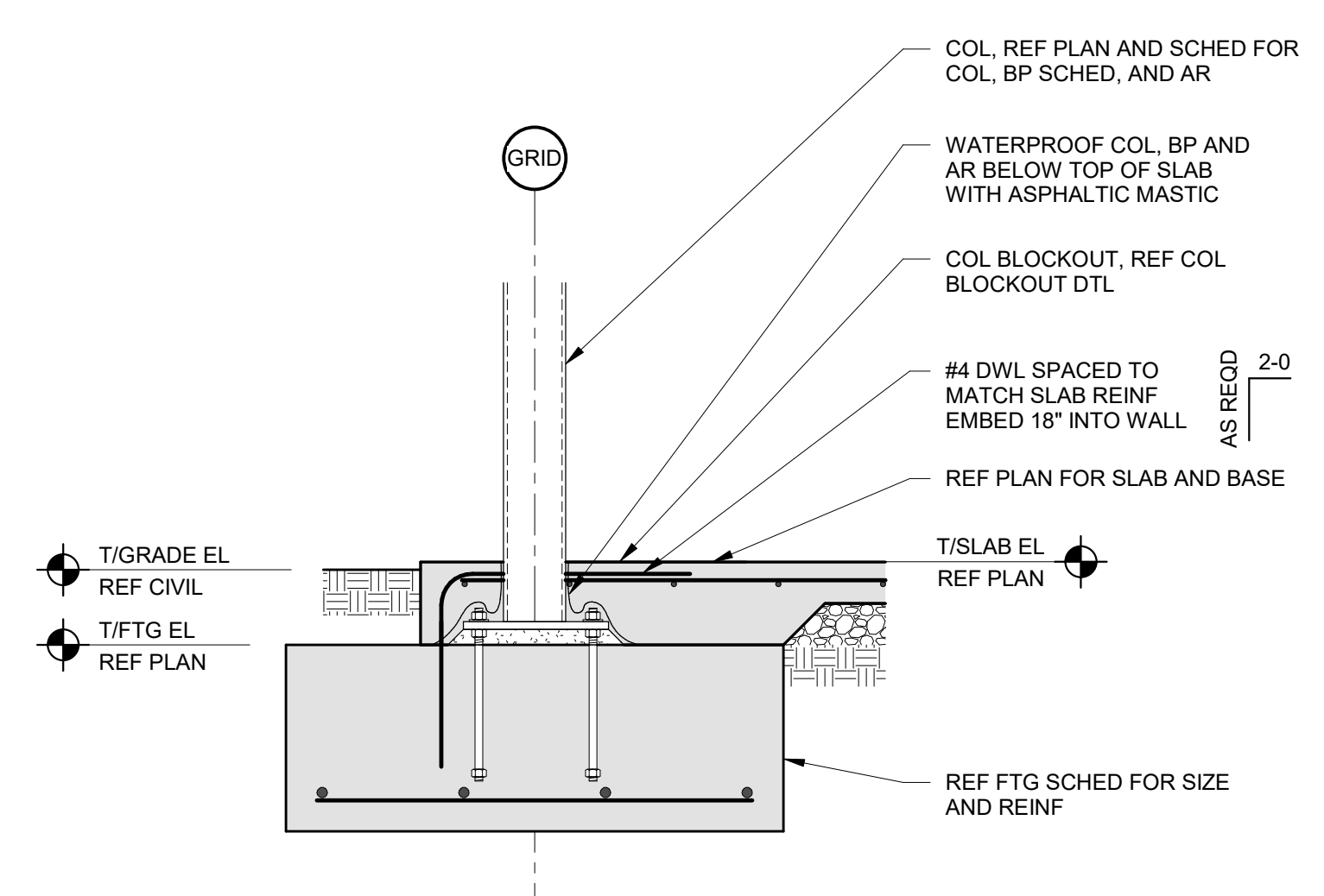
1 CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"



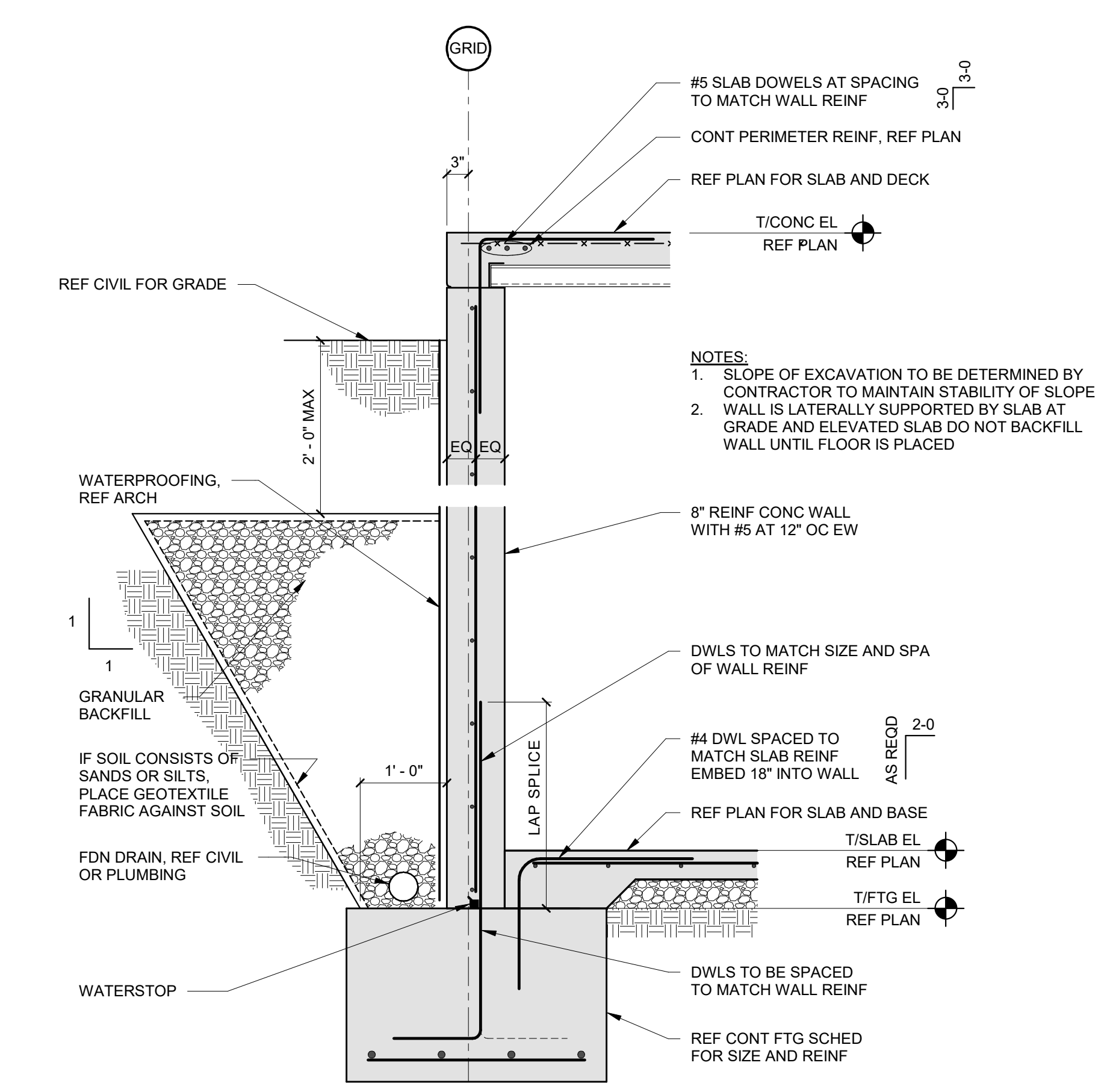
1 CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"



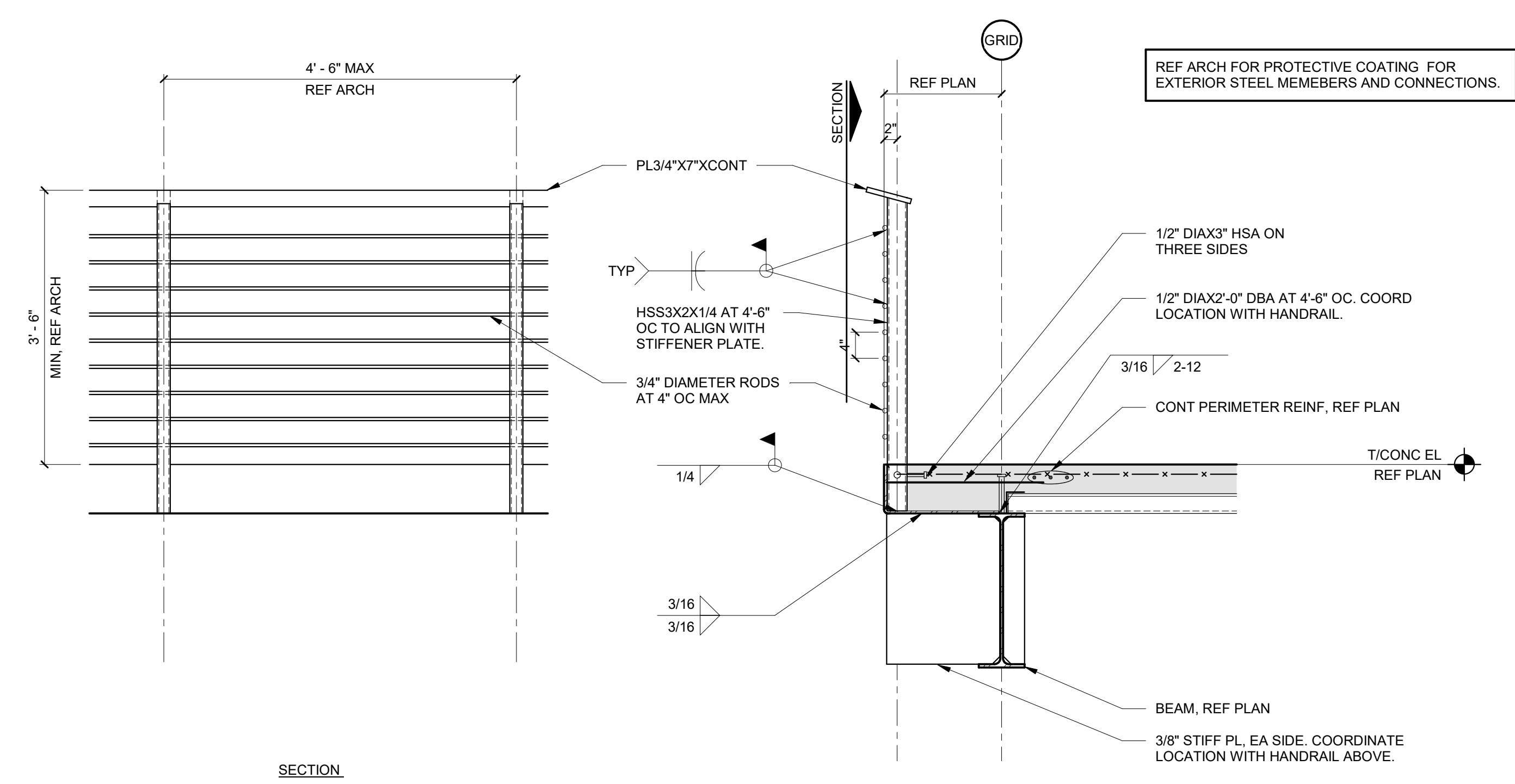
3 INTERIOR STEEL COLUMN FOOTING WITH PILASTER
3/4" = 1'-0"



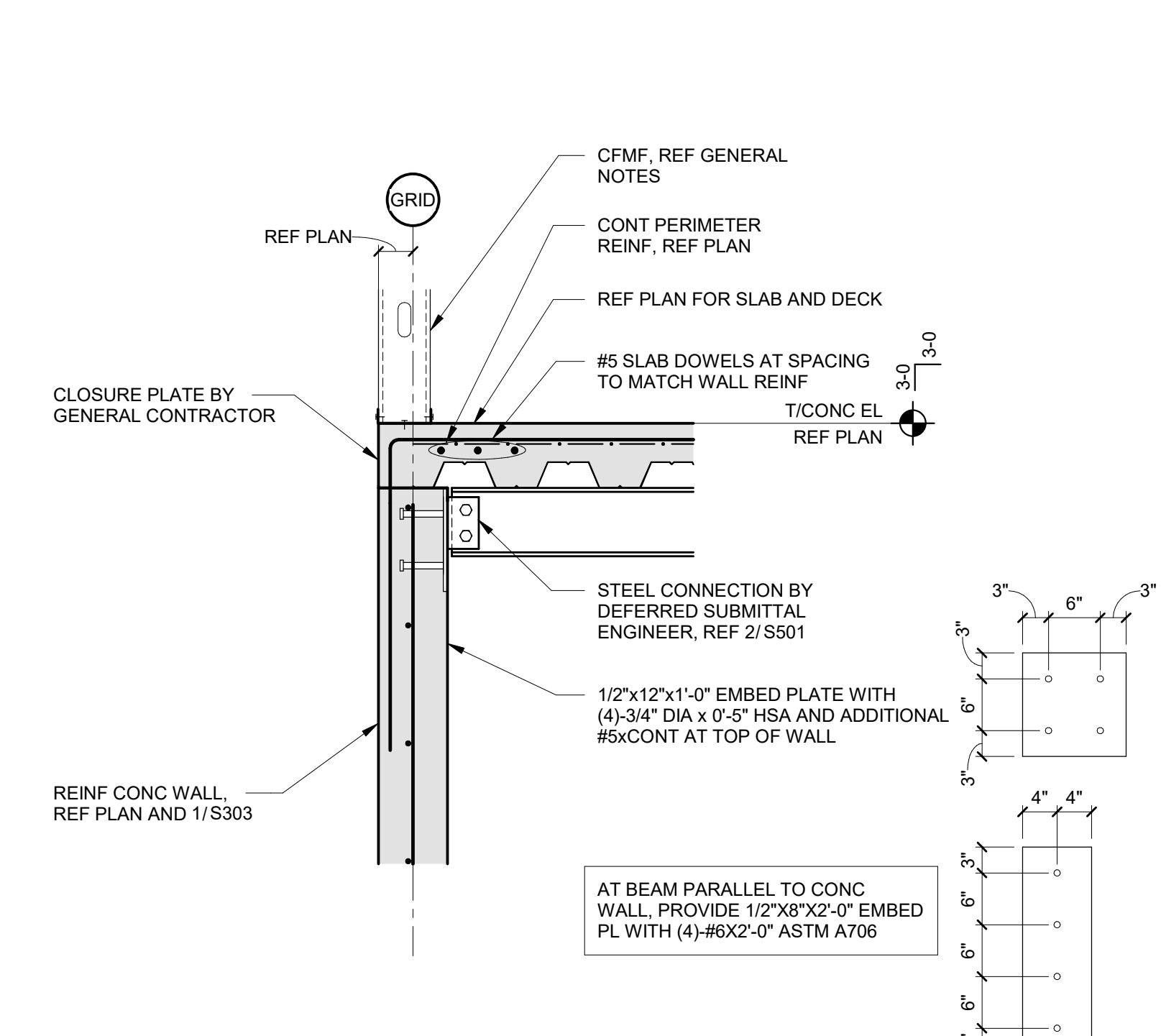
2 STEEL COLUMN AT FOOTING
3/4" = 1'-0"



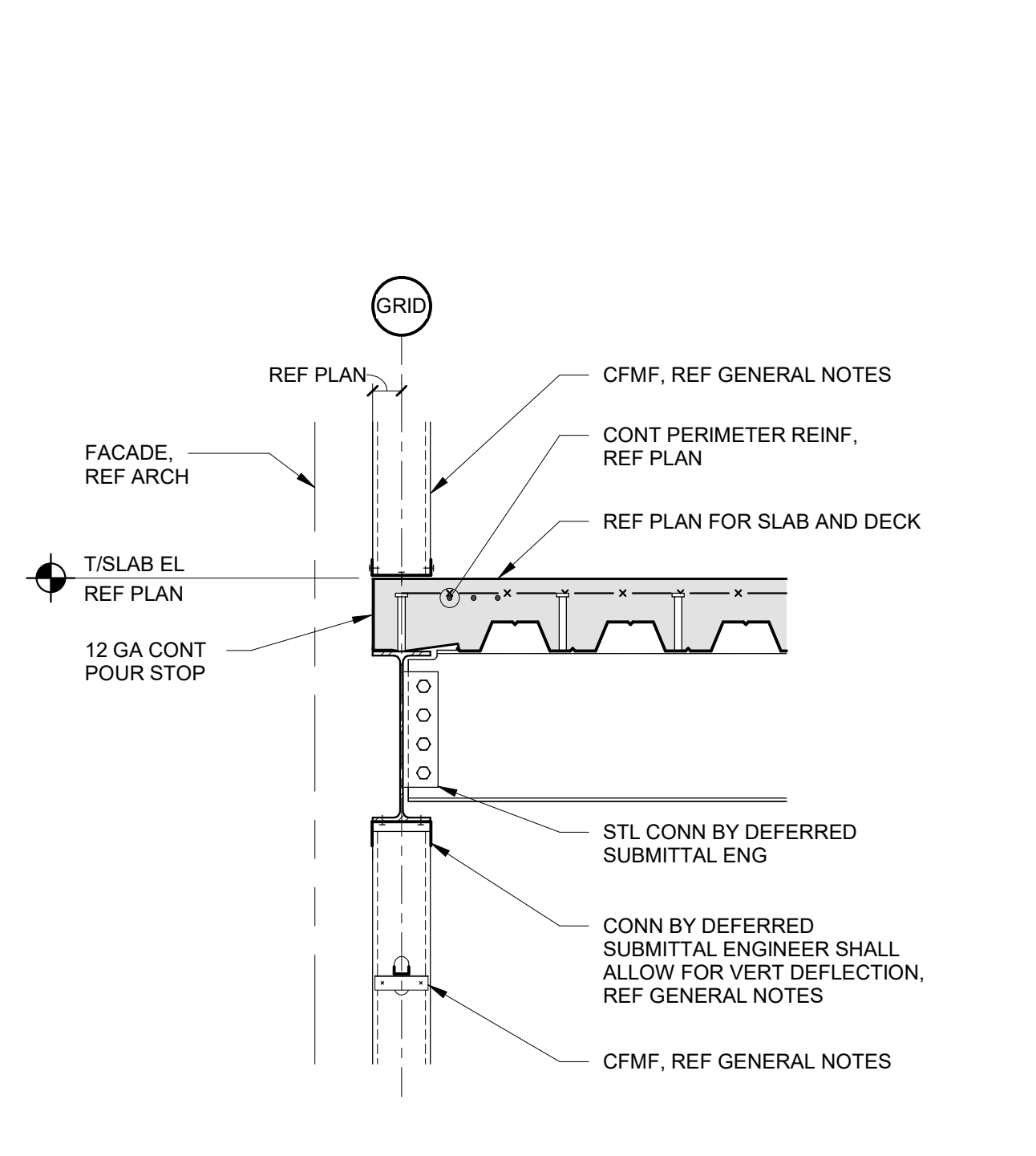
1 BASEMENT WALL DETAIL
3/4" = 1'-0"



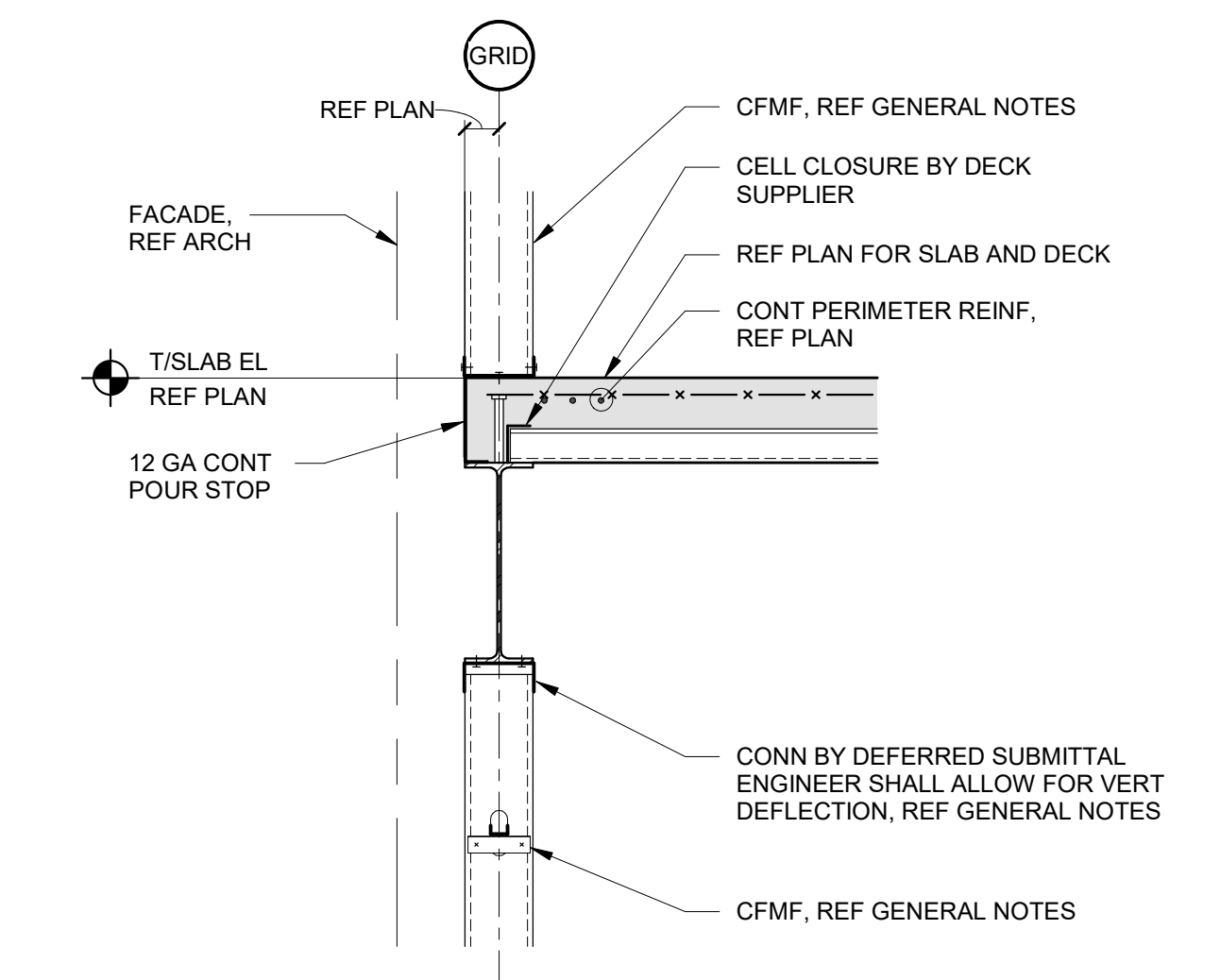
10 FRAMING DETAIL
3/4" = 1'-0"



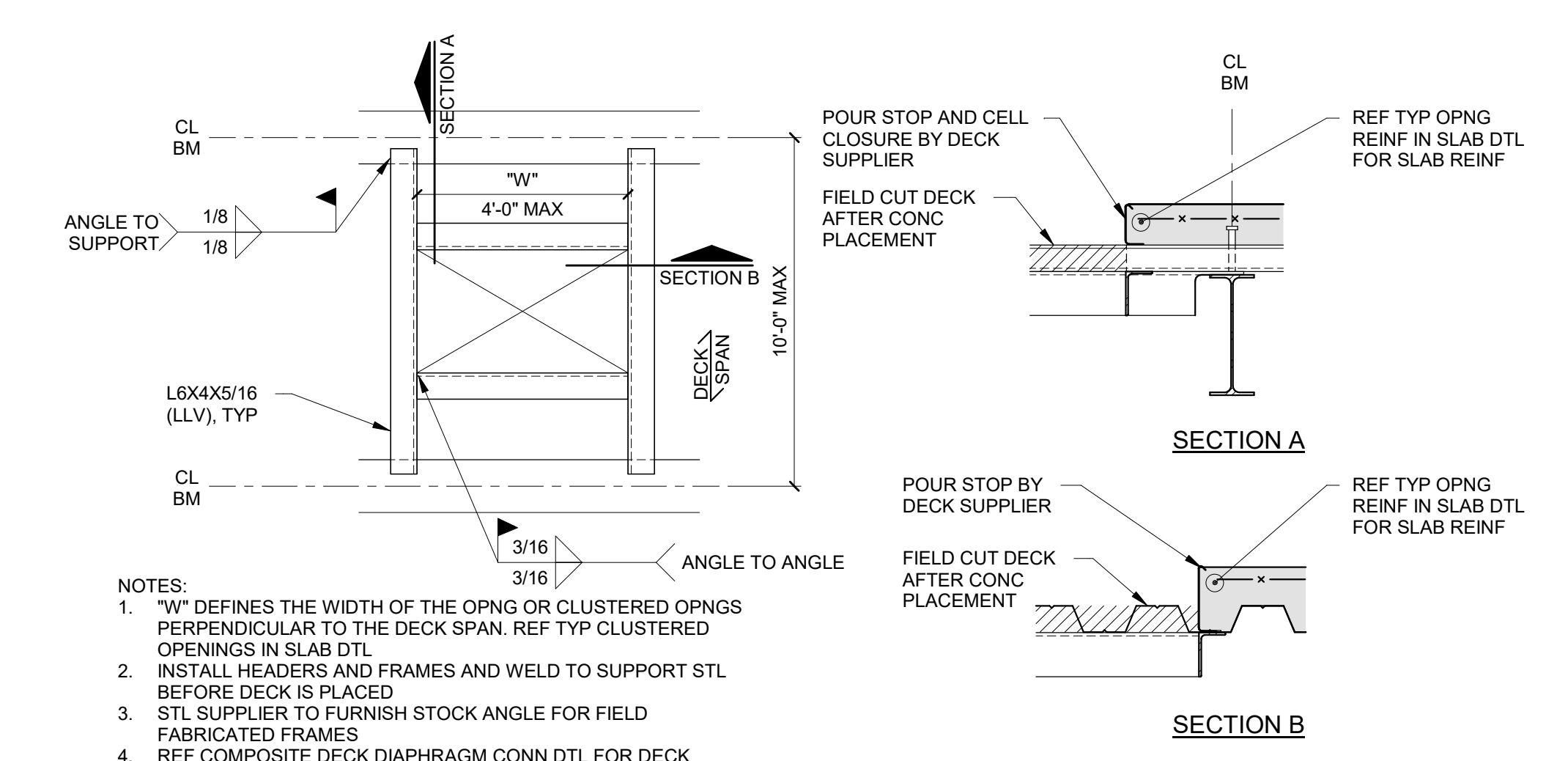
9 FRAMING DETAIL
3/4" = 1'-0"



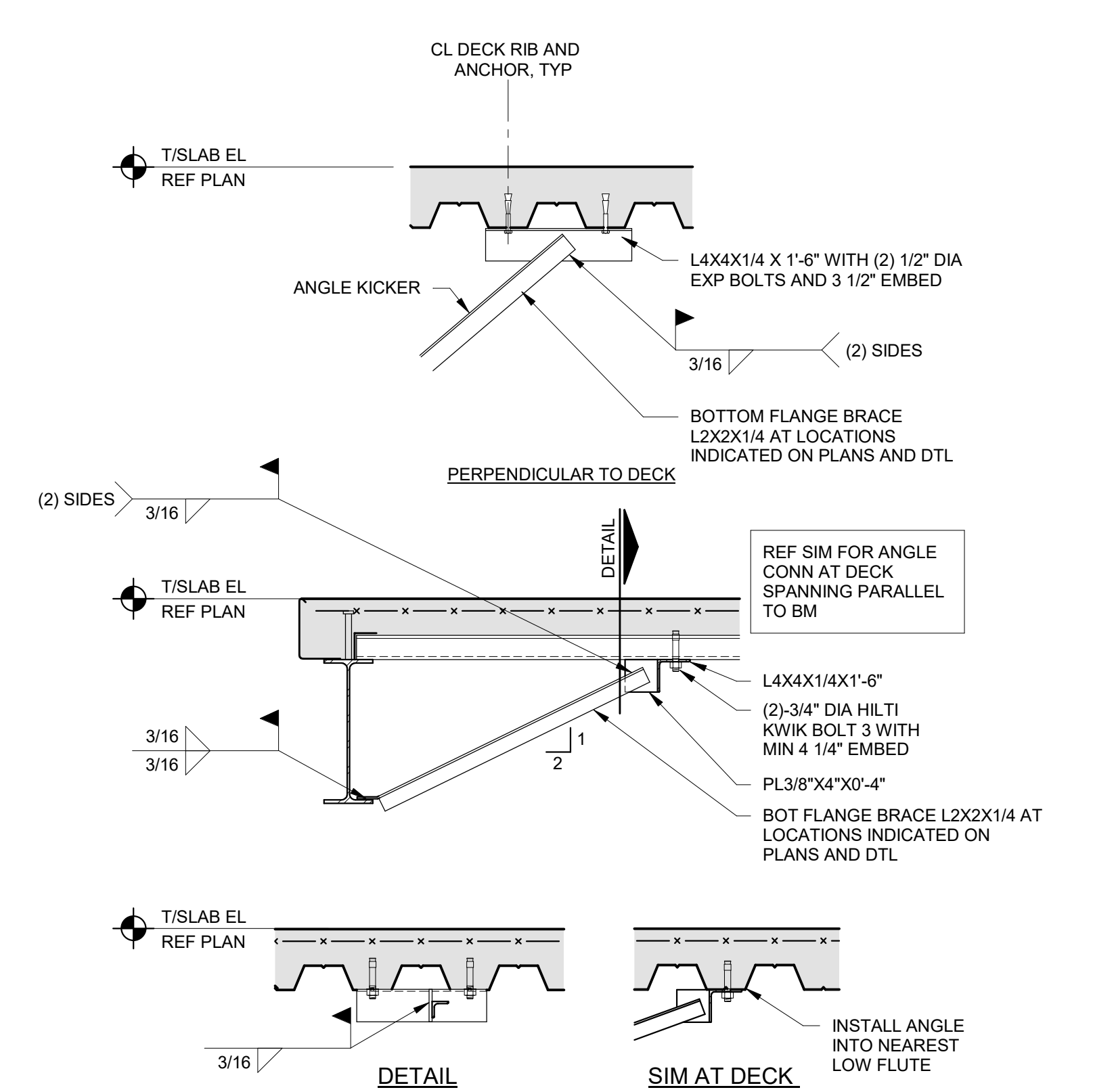
8 FRAMING DETAIL
3/4" = 1'-0"



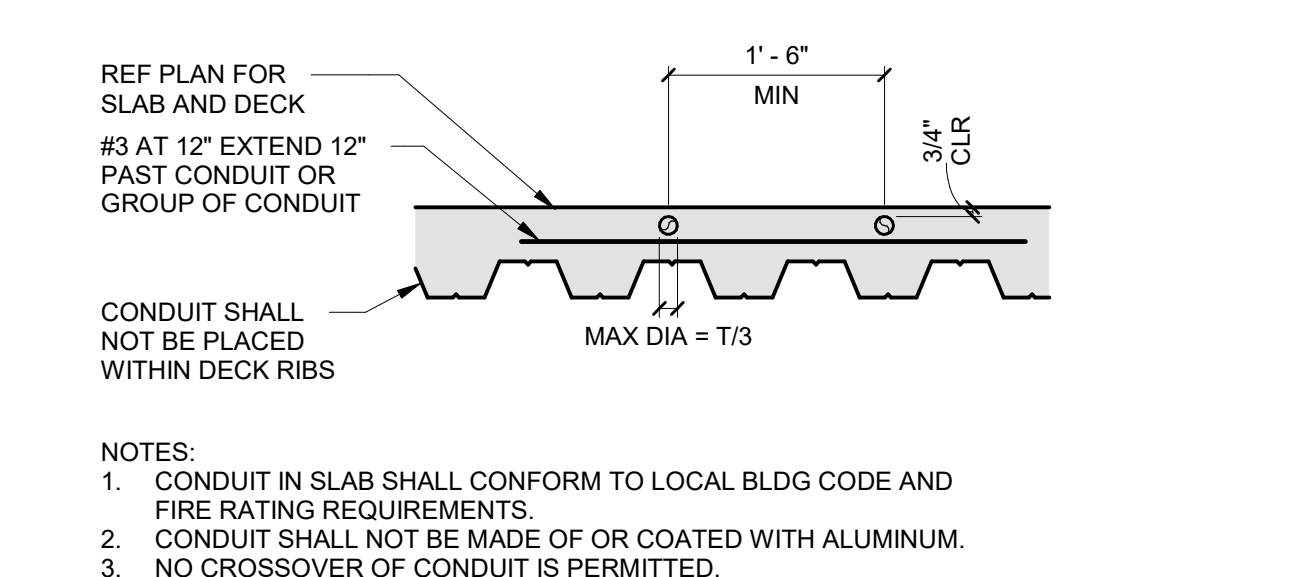
7 FRAMING DETAIL
3/4" = 1'-0"



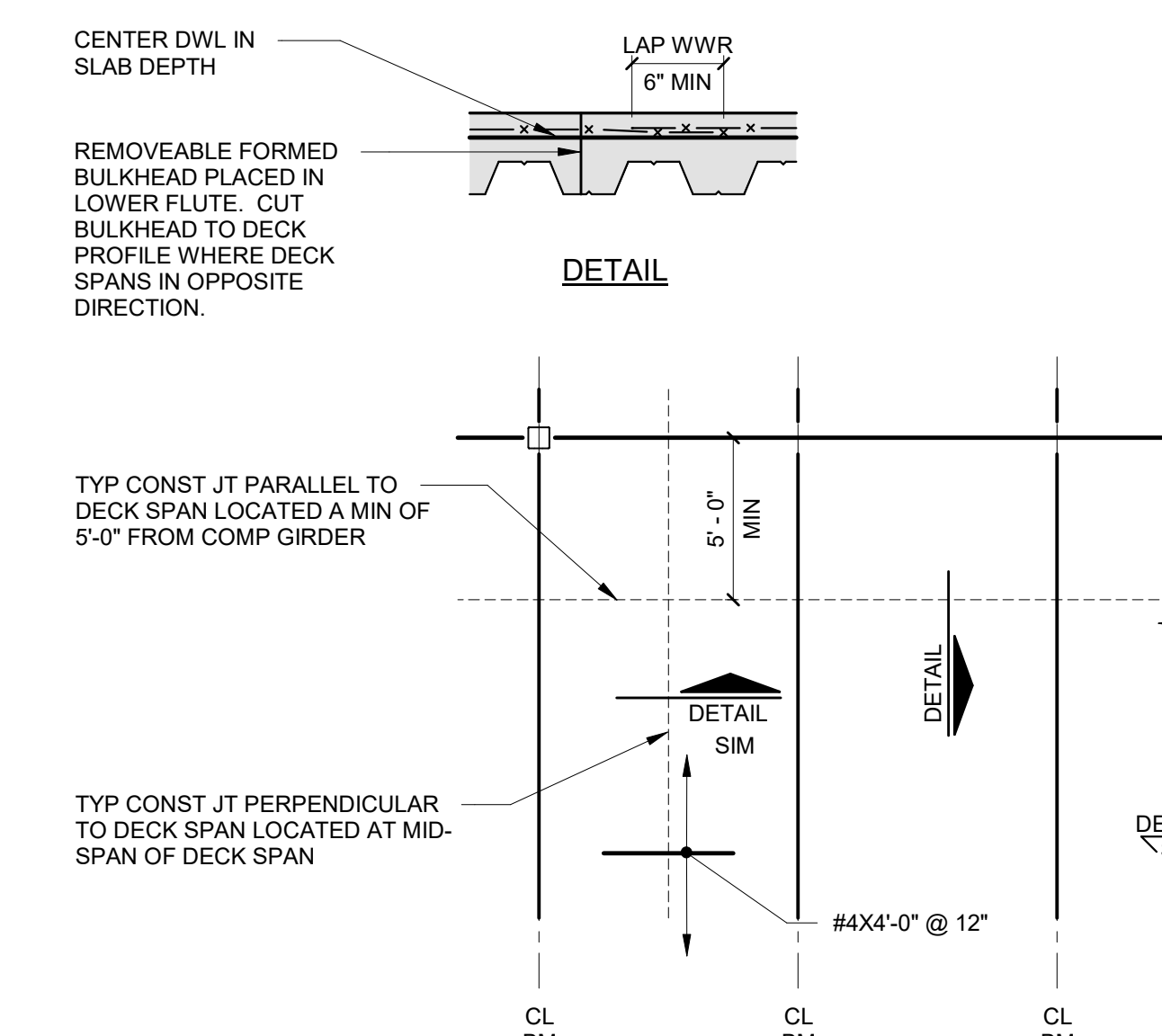
6 OPENING IN FLOOR DECK (30 INCHES AND GREATER)
NTS



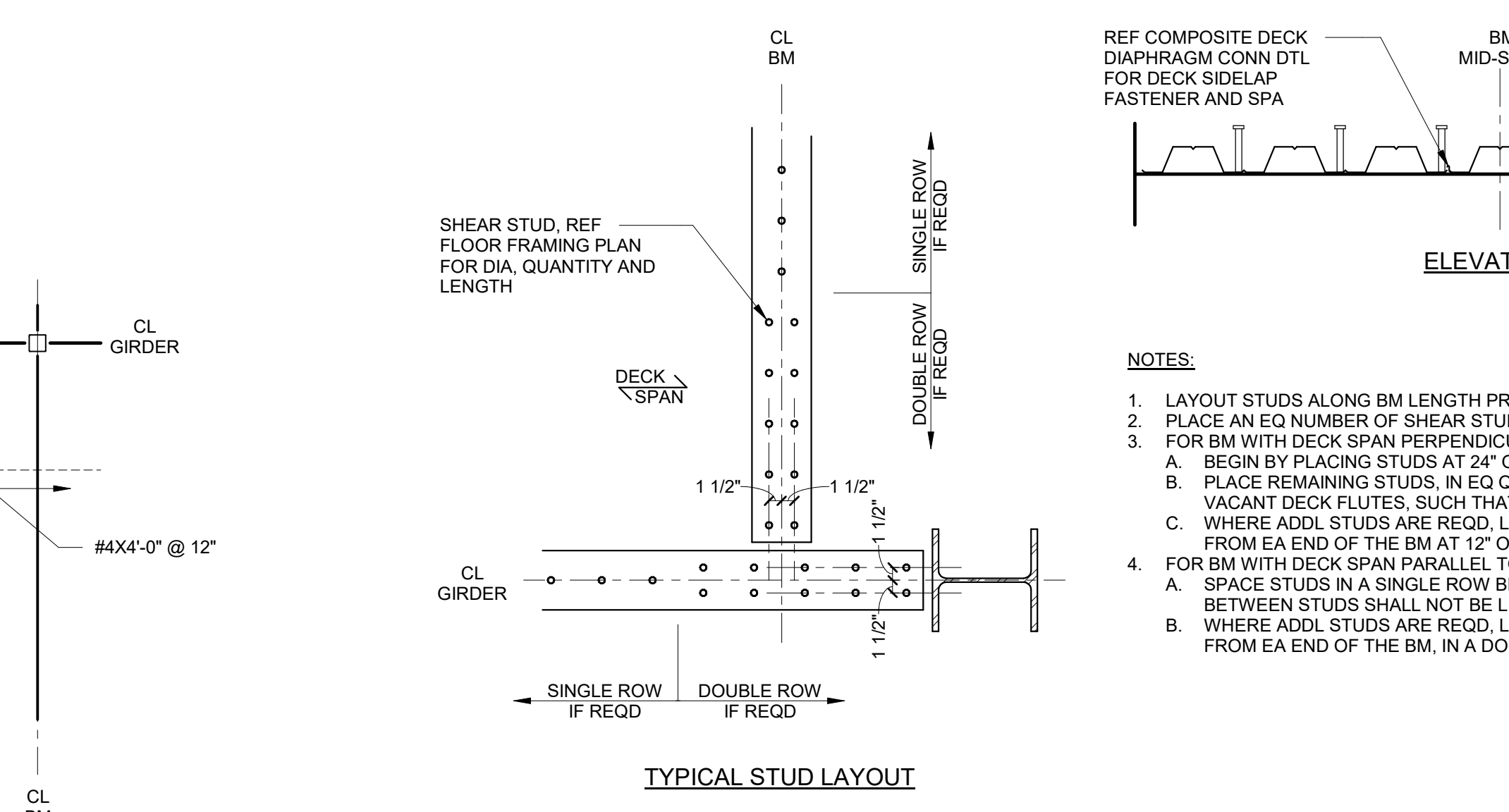
5 BOTTOM FLANGE BRACE CONNECTION
3/4" = 1'-0"



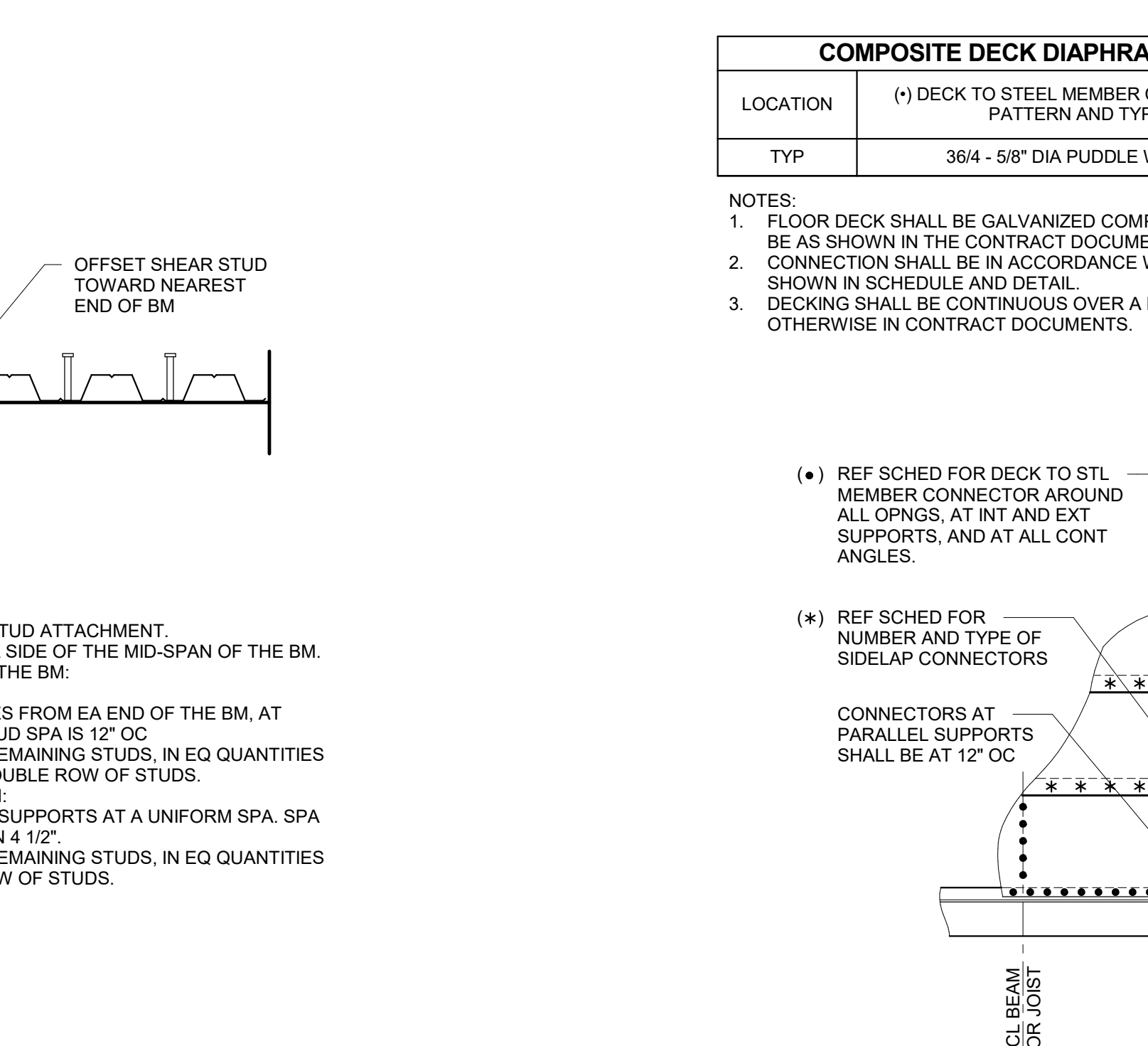
4 CONDUIT PLACEMENT IN SLAB
3/4" = 1'-0"



3 COMPOSITE SLAB CONSTRUCTION JOINT
NTS



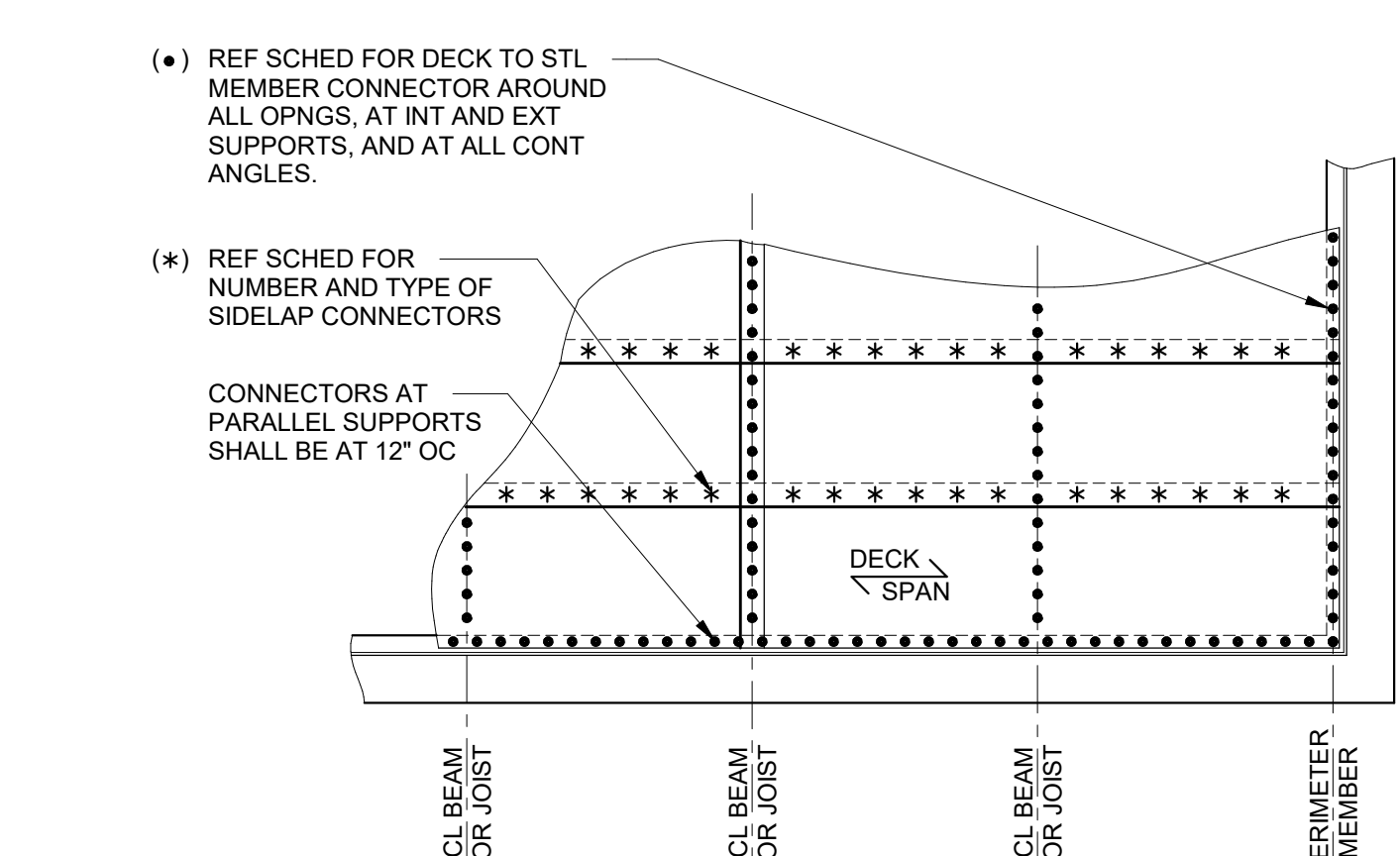
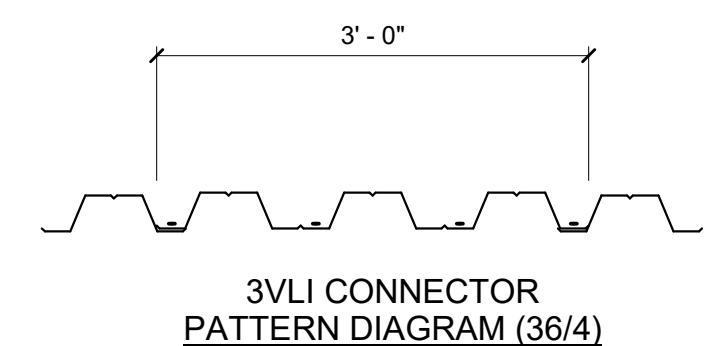
2 COMPOSITE BEAM SHEAR STUD LAYOUT - UNIFORM
NTS

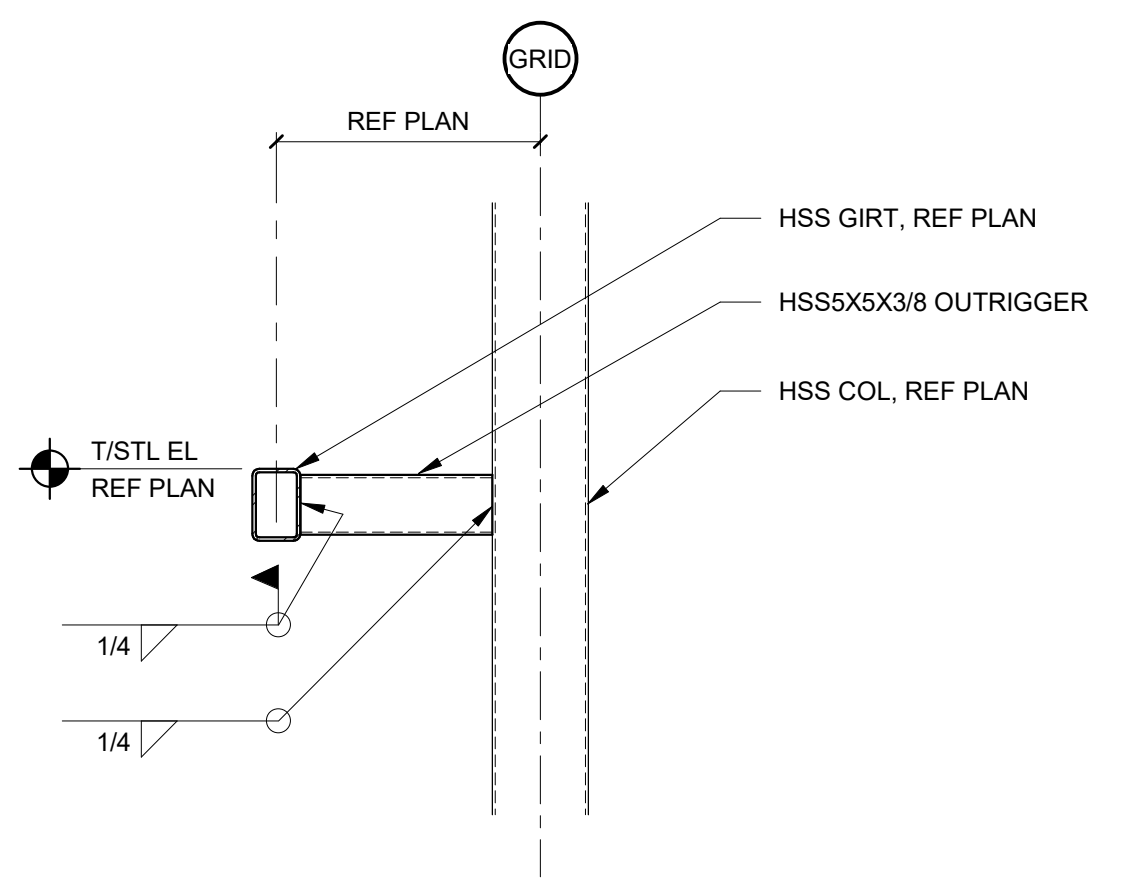


1 COMPOSITE DECK DIAPHRAGM CONNECTION DIAGRAM
3/4" = 1'-0"

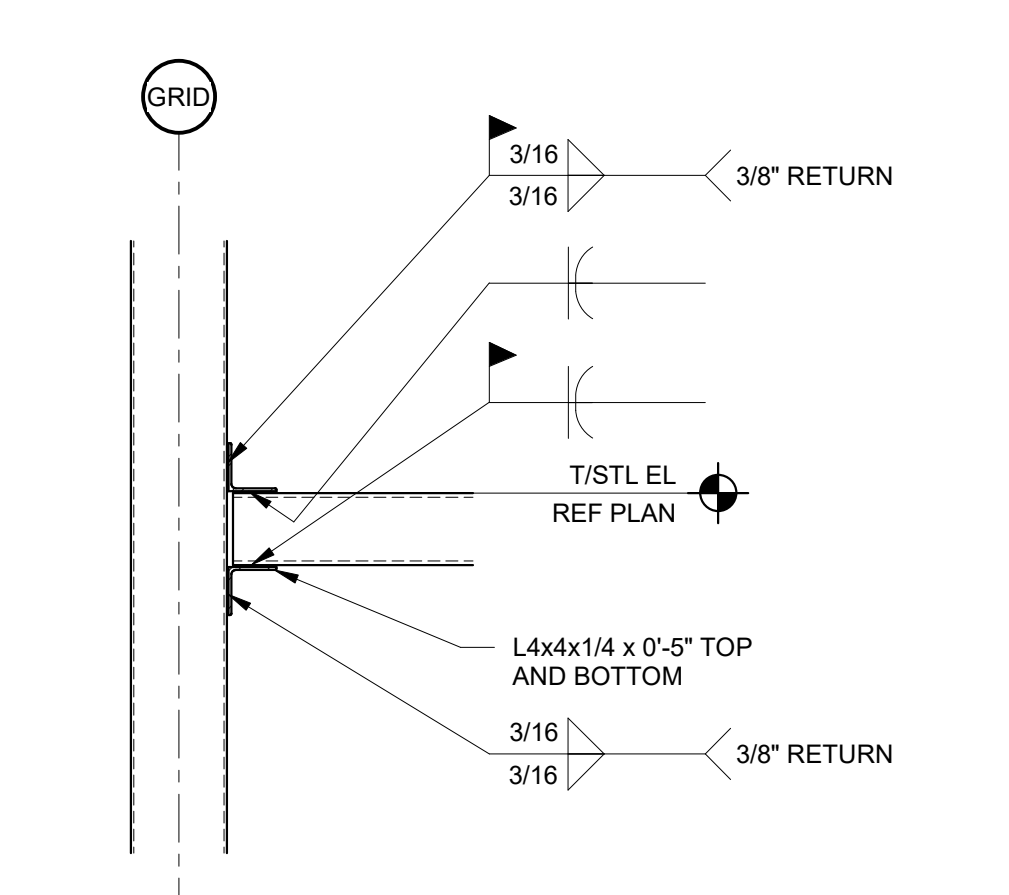
COMPOSITE DECK DIAPHRAGM CONNECTION SCHEDULE		
LOCATION	(*) DECK TO STEEL MEMBER CONNECTOR PATTERN AND TYPE	(*) SIDELAP CONNECTOR NUMBER AND TYPE
TYP	3/64 - 5/8" DIA PUDDLE WELDS	BUTTON PUNCH AT 12" OC UNO

- NOTES:
- FLOOR DECK SHALL BE GALVANIZED COMPOSITE STEEL FLOOR DECK. DEPTH SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS.
 - CONNECTION SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECS AND AS SHOWN IN SCHEDULE AND DETAIL.
 - DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

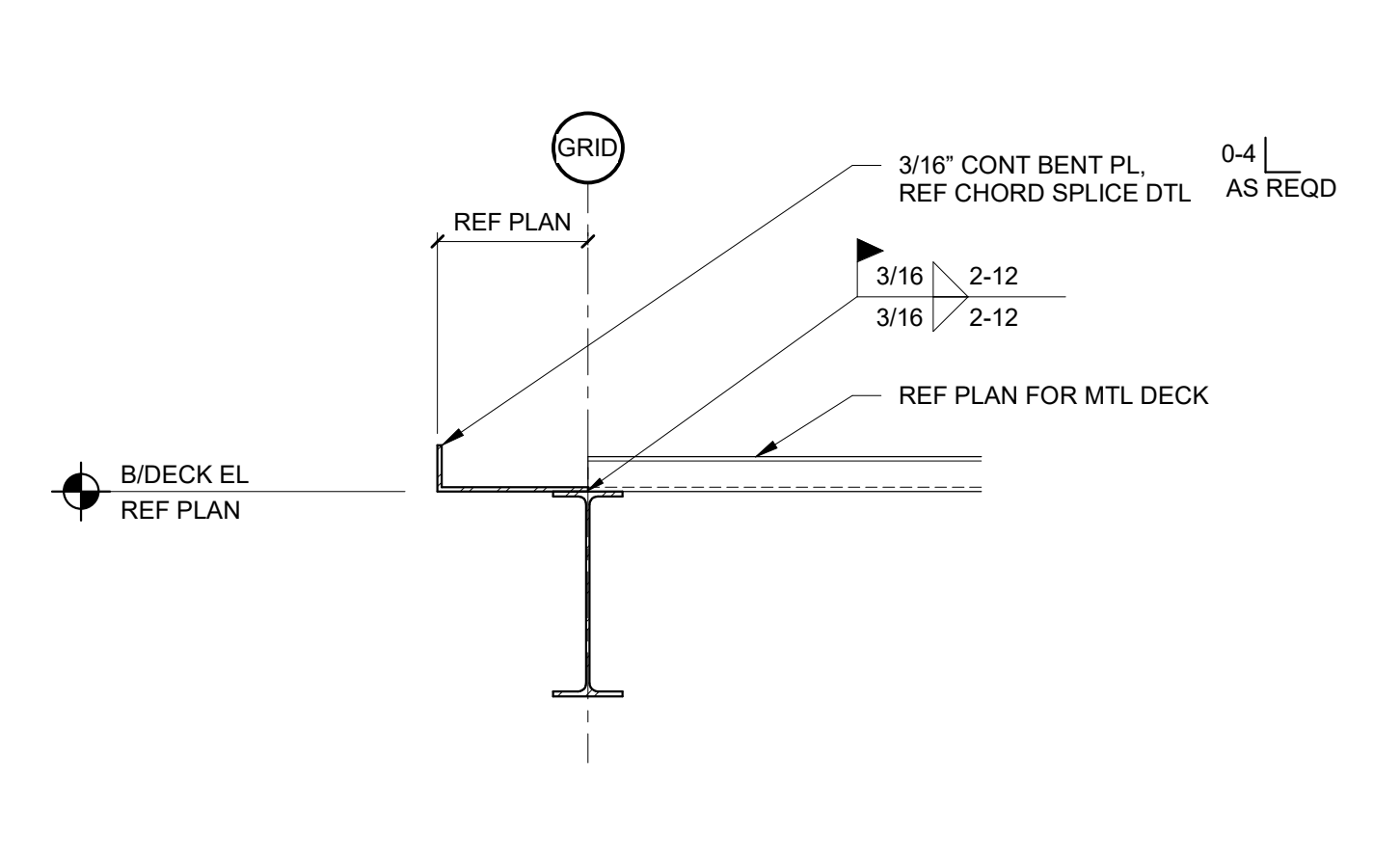




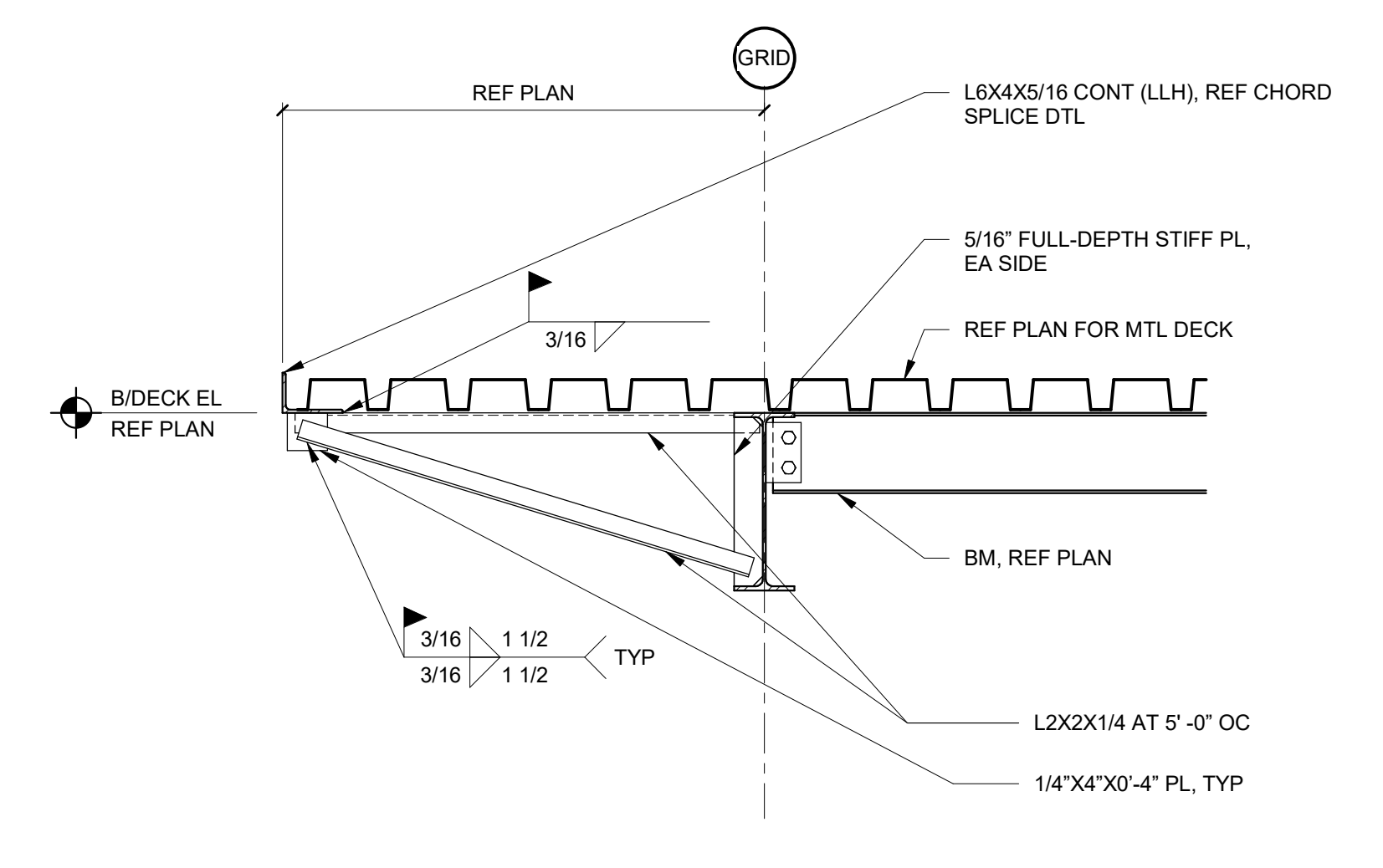
8 FRAMING DETAIL
3/4" = 1'-0"



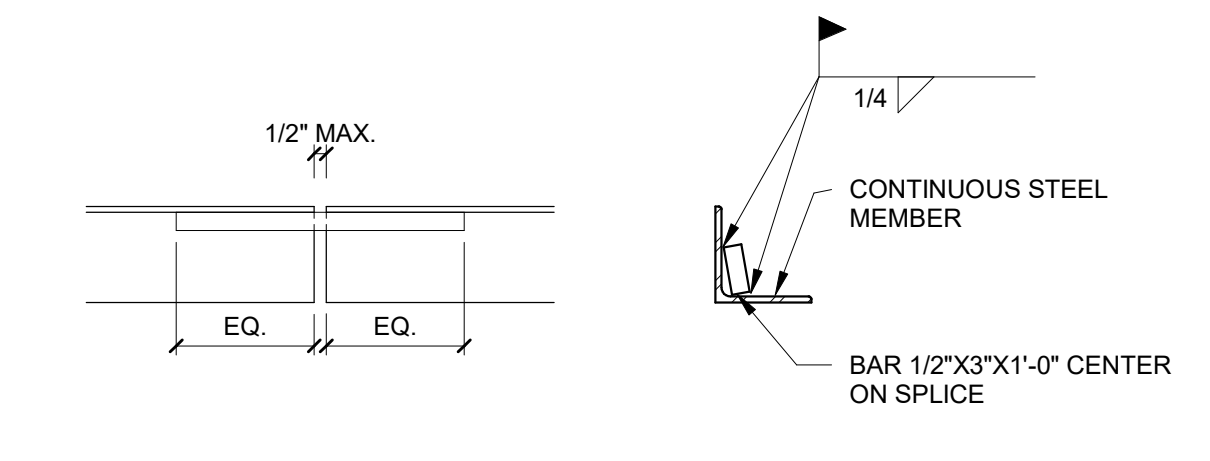
7 FRAMING DETAIL
3/4" = 1'-0"



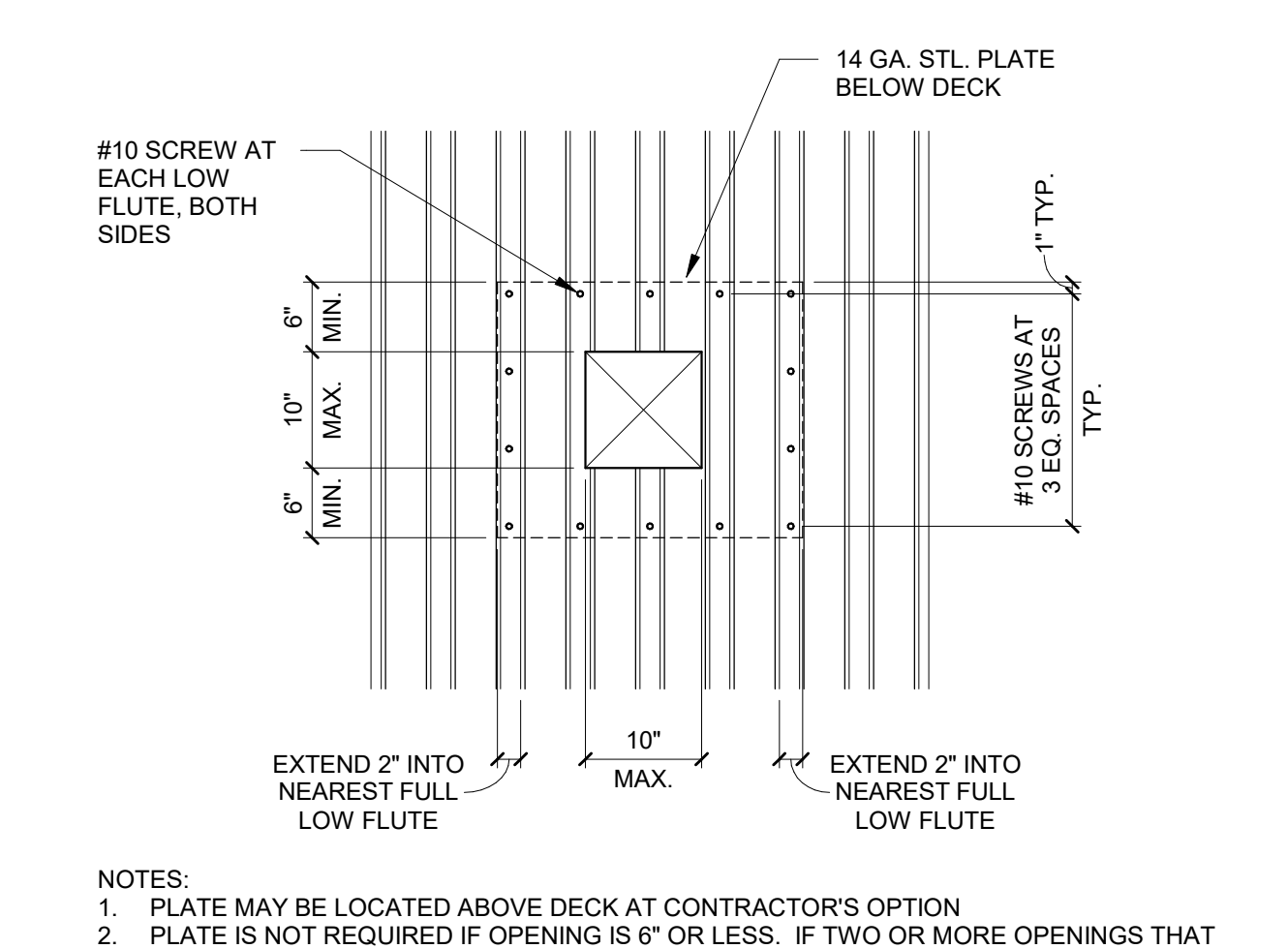
6 FRAMING DETAIL
3/4" = 1'-0"



5 FRAMING DETAIL
3/4" = 1'-0"



4 TYPICAL SPlice DETAIL
1 1/2" = 1'-0"

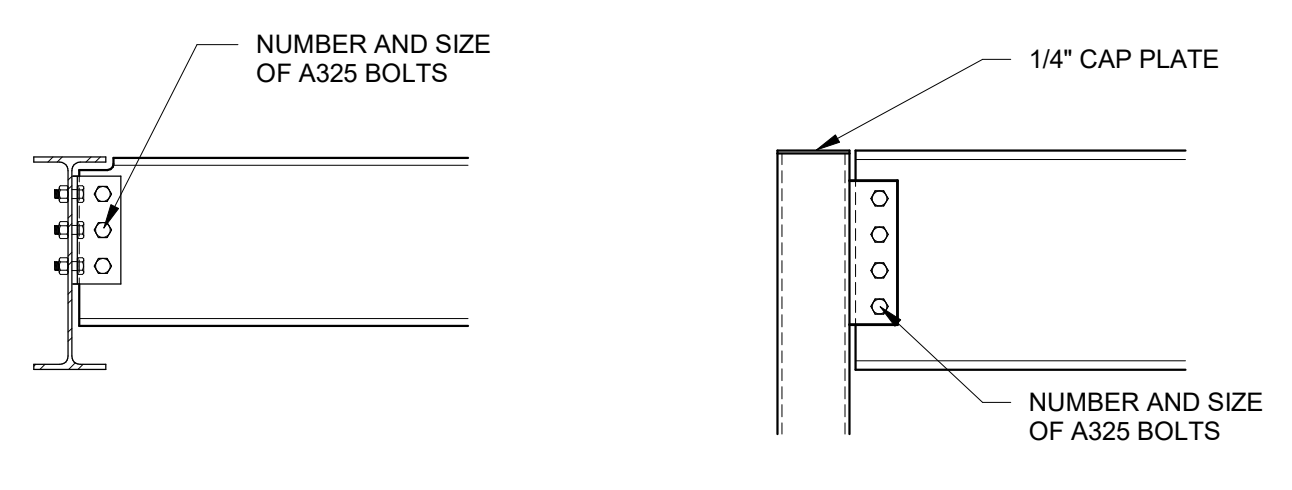


3 TYPICAL OPENING IN DECK LESS THAN 10"x10"
3/4" = 1'-0"

STEEL BEAM MINIMUM CONNECTION SCHEDULE

BEAM	MINIMUM BOLT DIA.	MINIMUM NUMBER OF BOLTS	MINIMUM LRFD FACTORED END REACTION (KIPS)	NOTE
W8/HSS8	3/4"	2	24	1,2,3.
W14	3/4"	3	38	1,2,3
W16	3/4"	4	52	1,2,3

BEAM MINIMUM CONNECTION SCHEDULE NOTES:
1. UNLESS INDICATED ON FRAMING PLAN AND CORRESPONDING DETAILS OR NOTES BELOW, SCHEDULE INDICATES THE MINIMUM NUMBER OF BOLTS ALLOWED FOR BEAM CONNECTIONS.
2. CONNECTIONS SHALL BE DESIGNED FOR LRFD FACTORED END REACTIONS SHOWN ON PLANS. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION IN SCHEDULE.
3. REF PLAN FOR REQUIRED MOMENT CONNECTION.

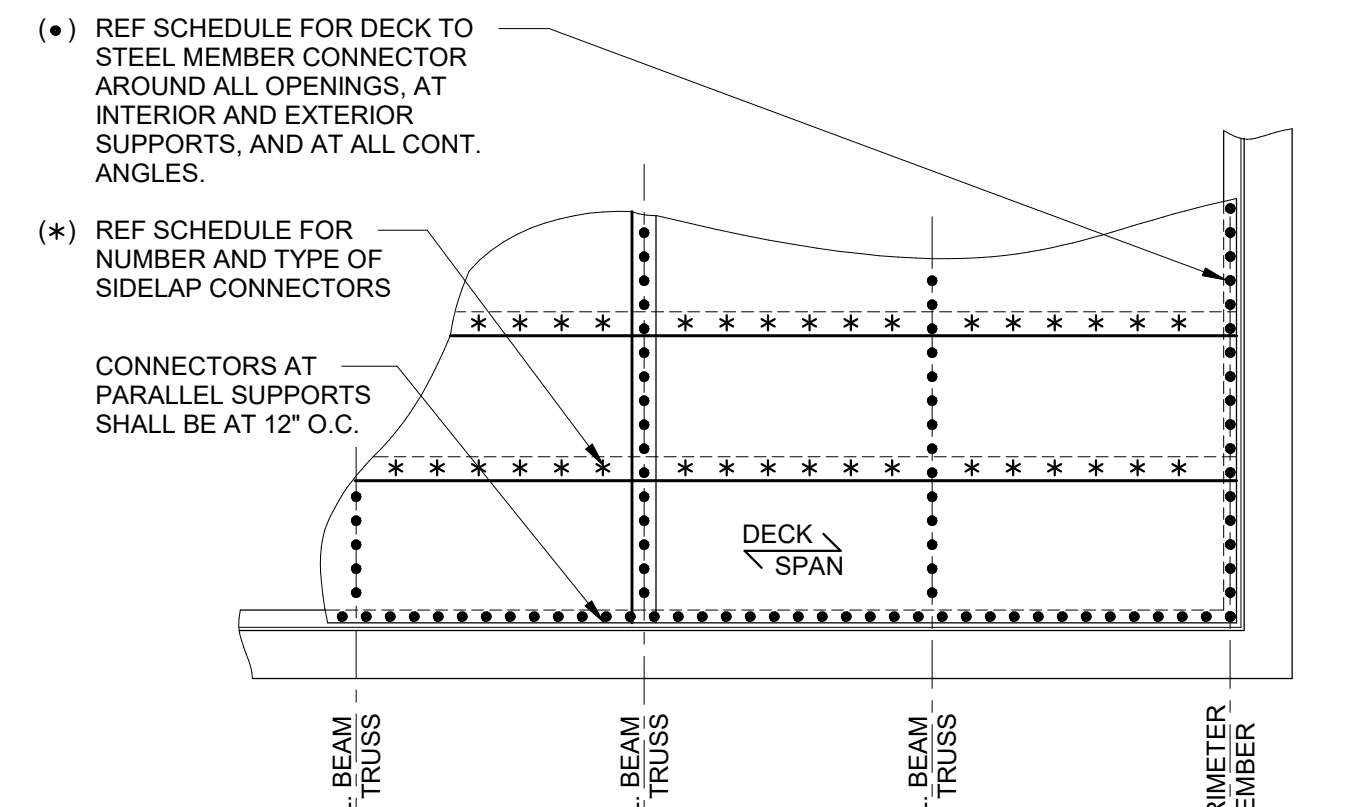
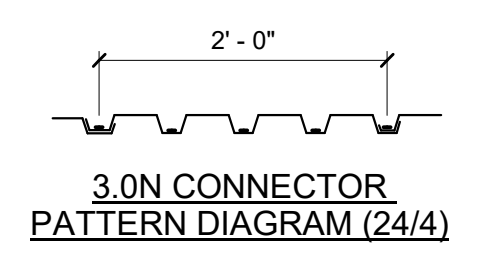


BEAM TO BEAM CONNECTION
BEAM TO HSS
THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS, REF PLANS AND SCHEDULE FOR LRFD FACTORED LOADS, AND REF STEEL BEAM MINIMUM CONNECTION SCHEDULE FOR MINIMUM CONNECTION REQUIRED.

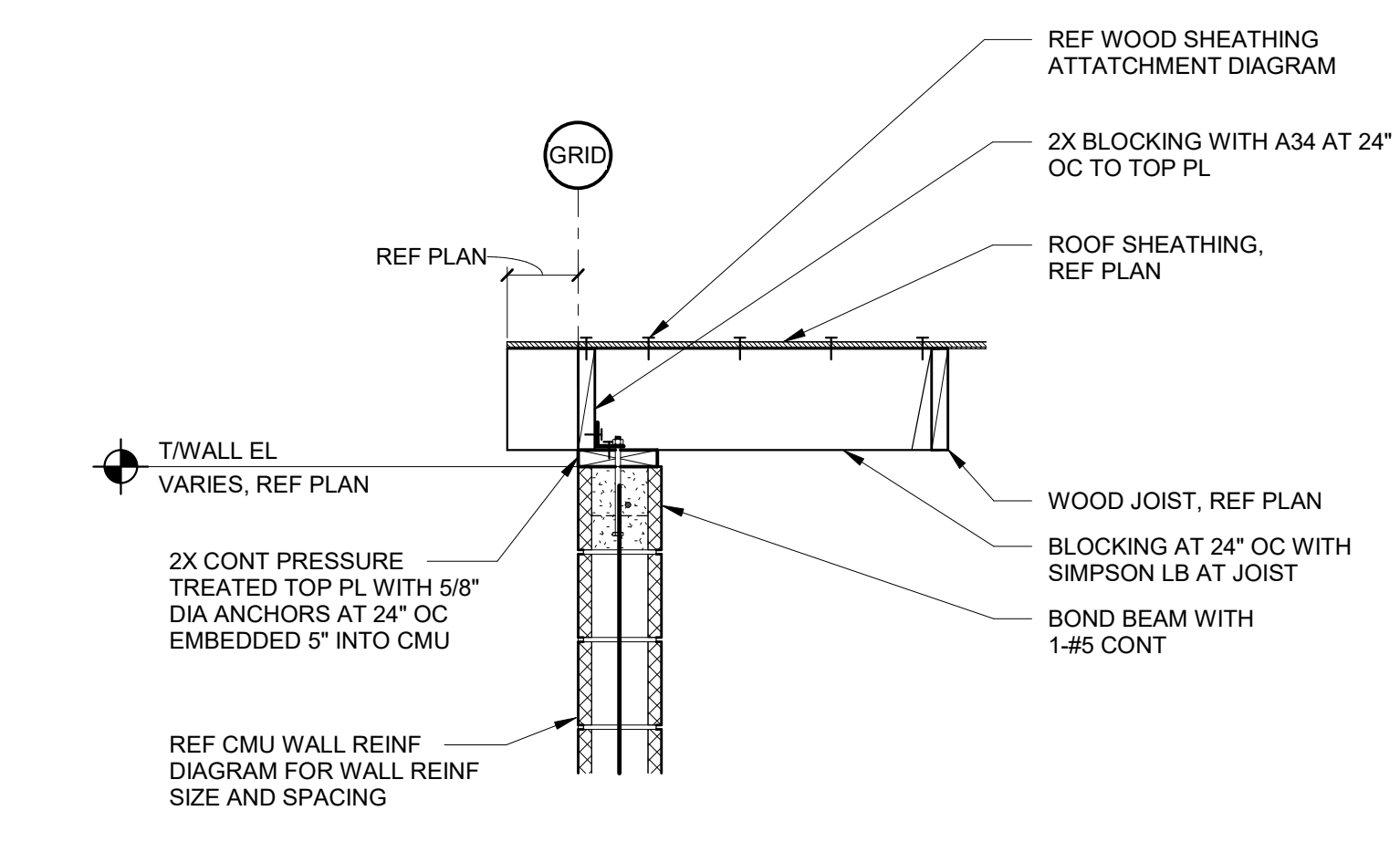
2 TYPICAL STEEL BEAM CONNECTION SCHEDULE AND DETAILS
3/4" = 1'-0"

DECK DIAPHRAGM CONNECTION SCHEDULE

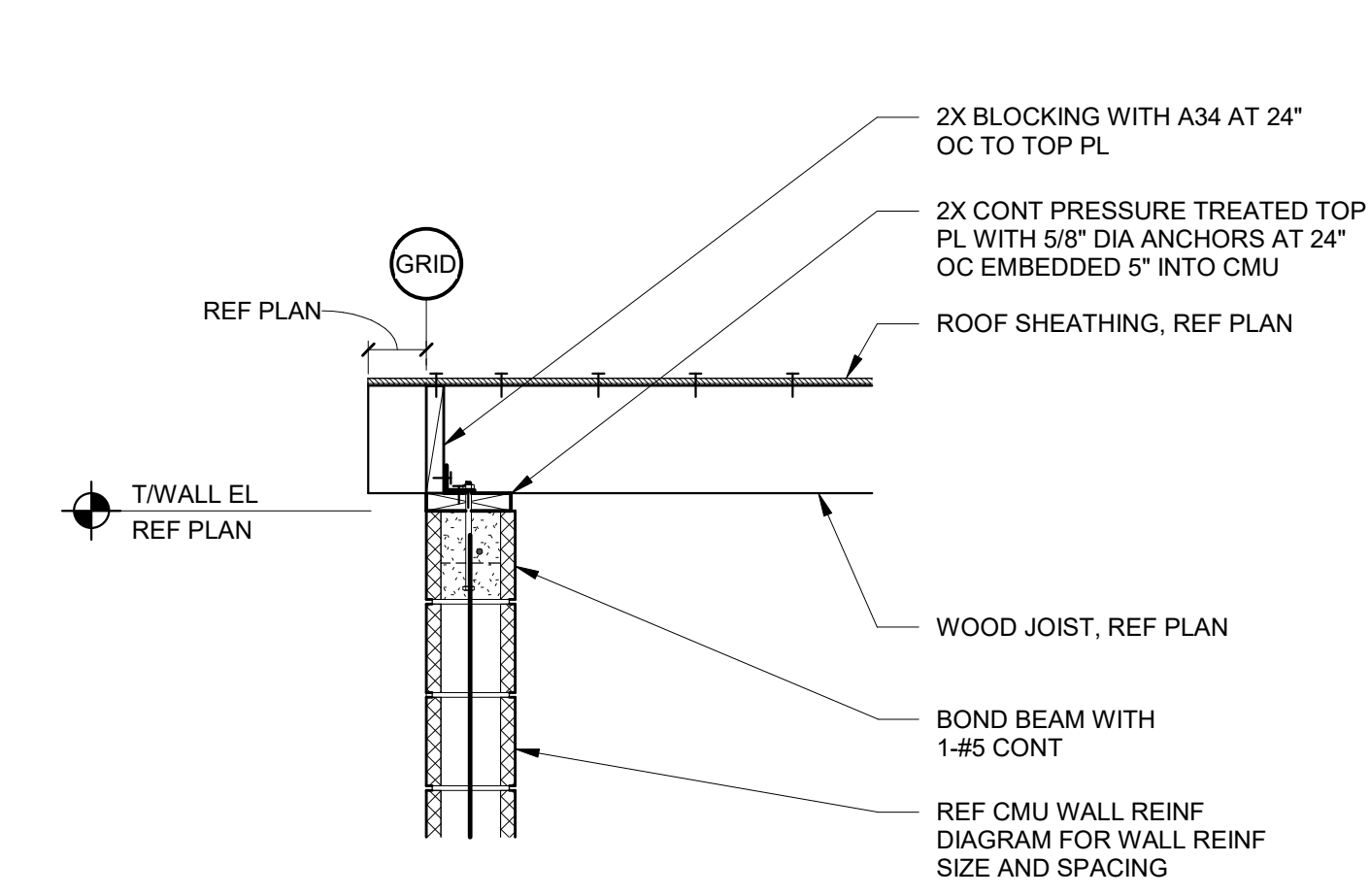
LOCATION	(*) DECK TO STEEL MEMBER CONNECTOR PATTERN AND TYPE	(*) SIDELAP CONNECTOR NUMBER AND TYPE
PRESS BOX	244 - 5/8" DIA PUDDLE WELDS	(5) - #10 TEKS SCREWS PER SPAN



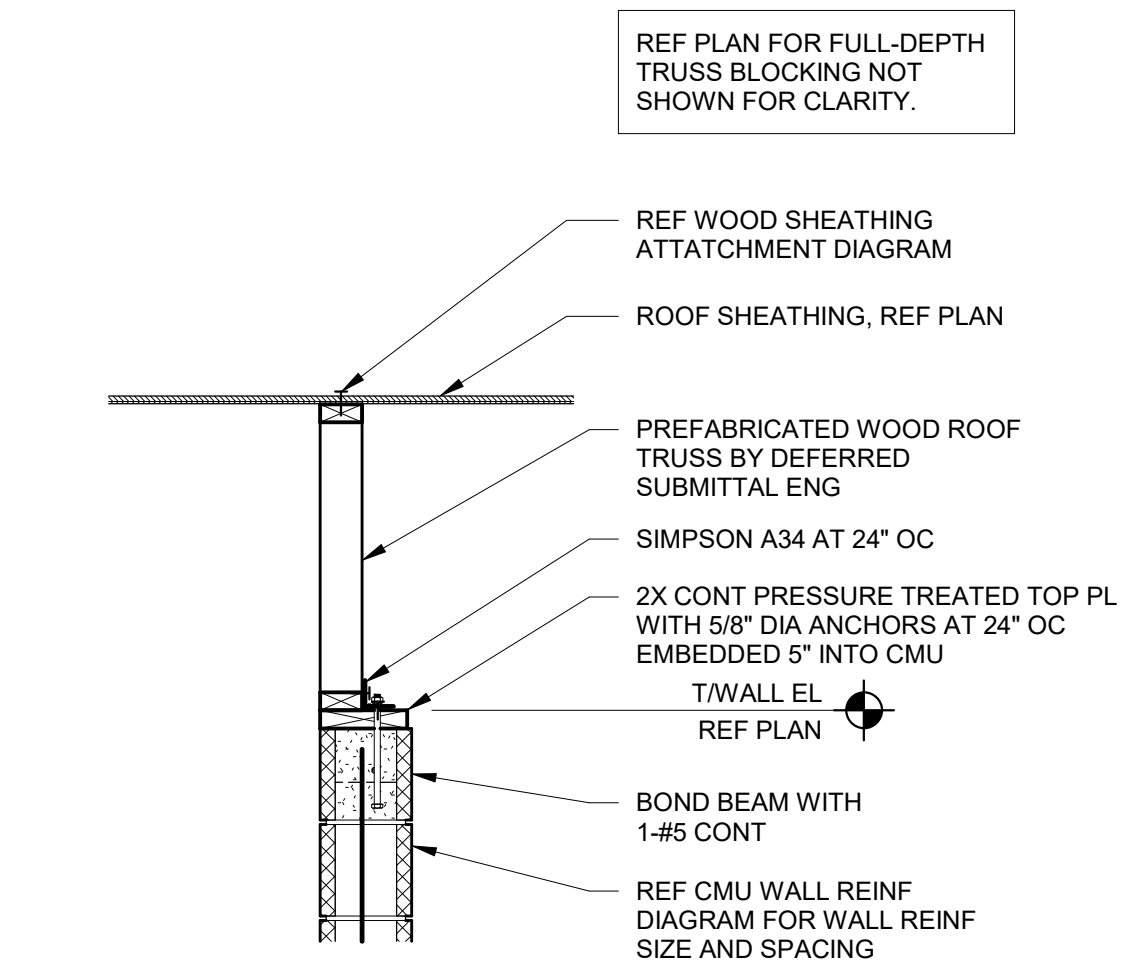
1 ROOF DECK DIAPHRAGM CONNECTION DIAGRAM
3/4" = 1'-0"



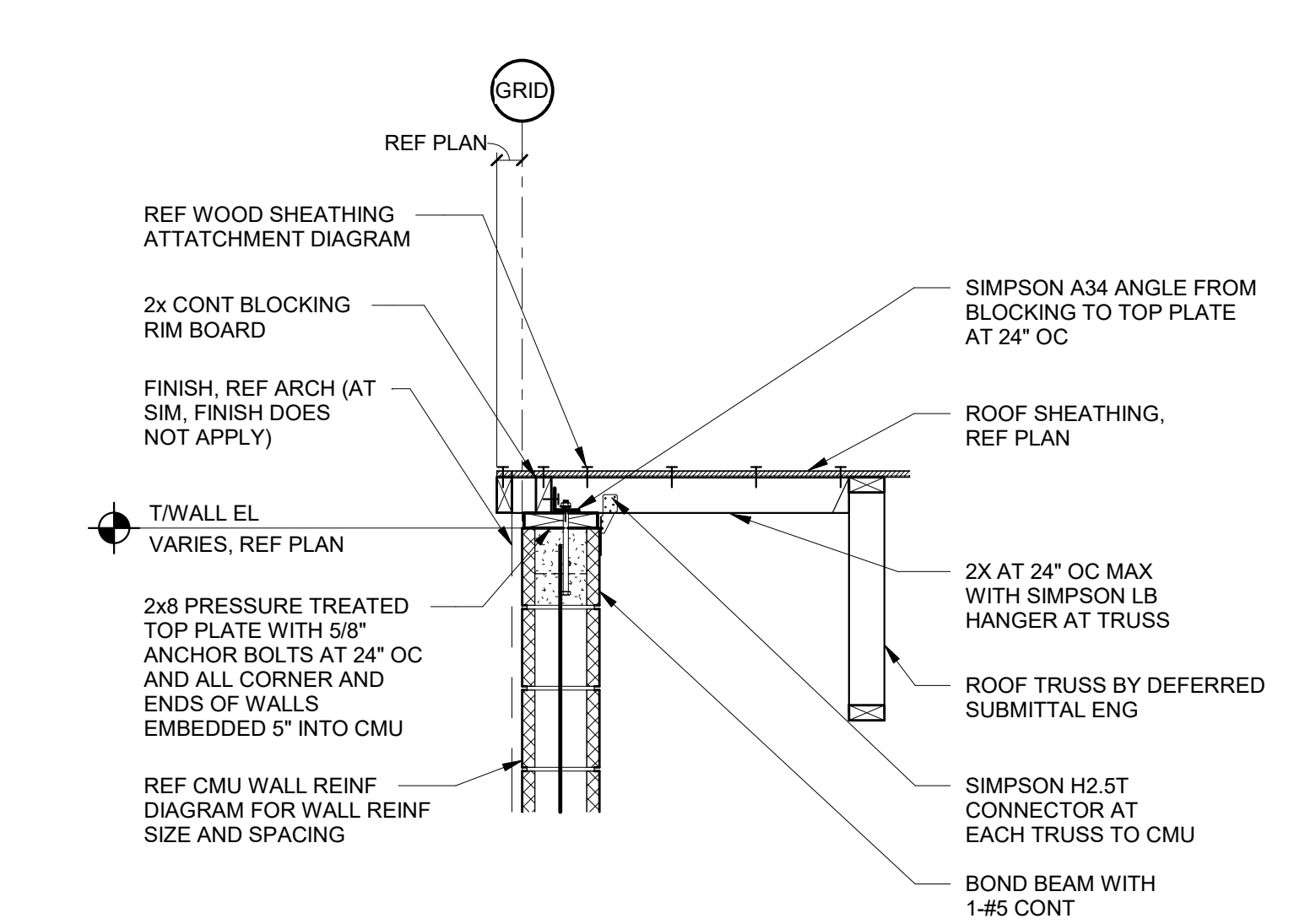
9 FRAMING DETAIL
3/4" = 1'-0"



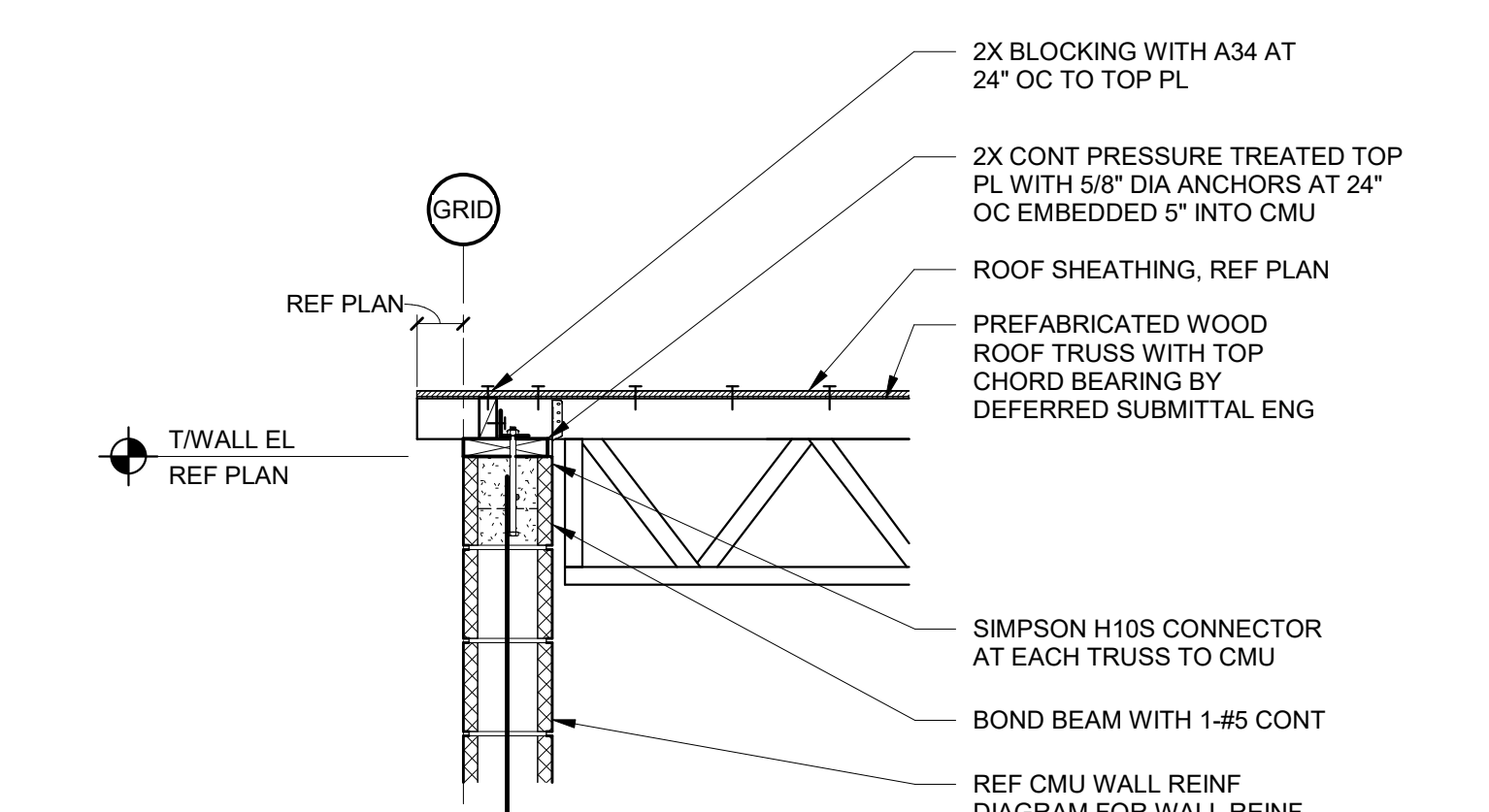
8 FRAMING DETAIL
3/4" = 1'-0"



7 FRAMING DETAIL
3/4" = 1'-0"

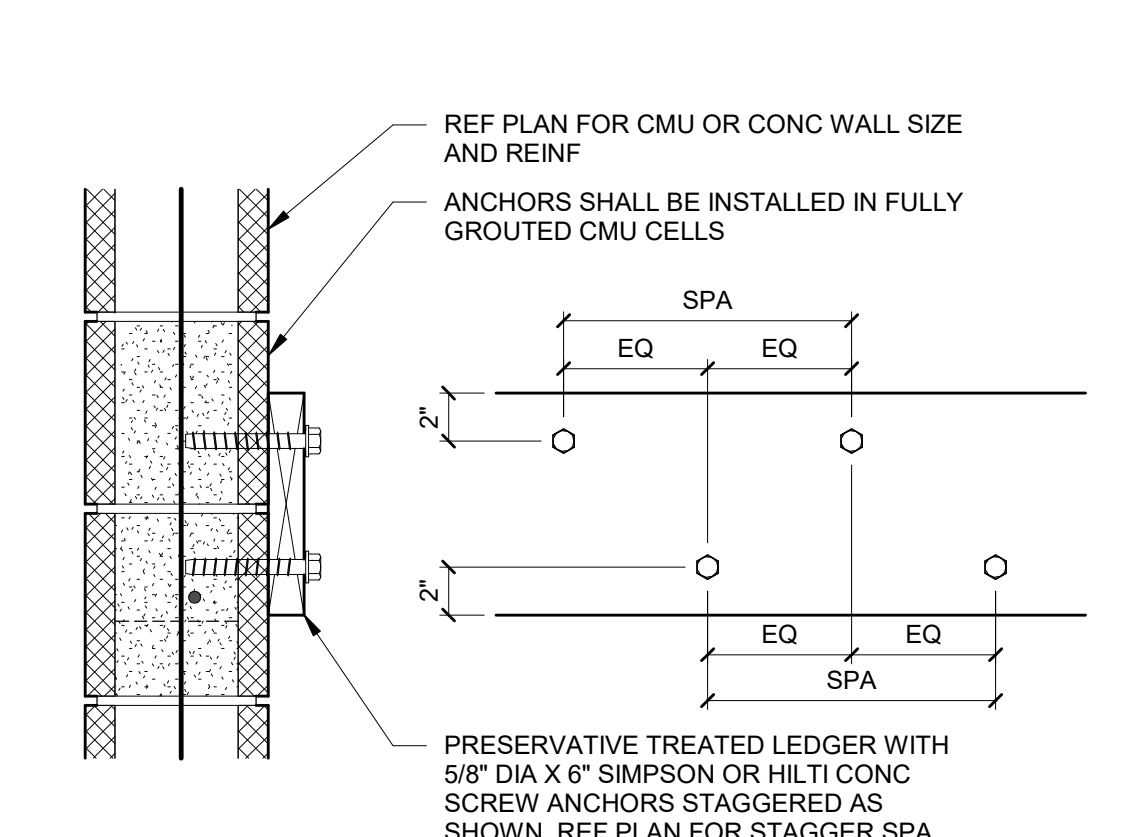


6 FRAMING PLAN
3/4" = 1'-0"

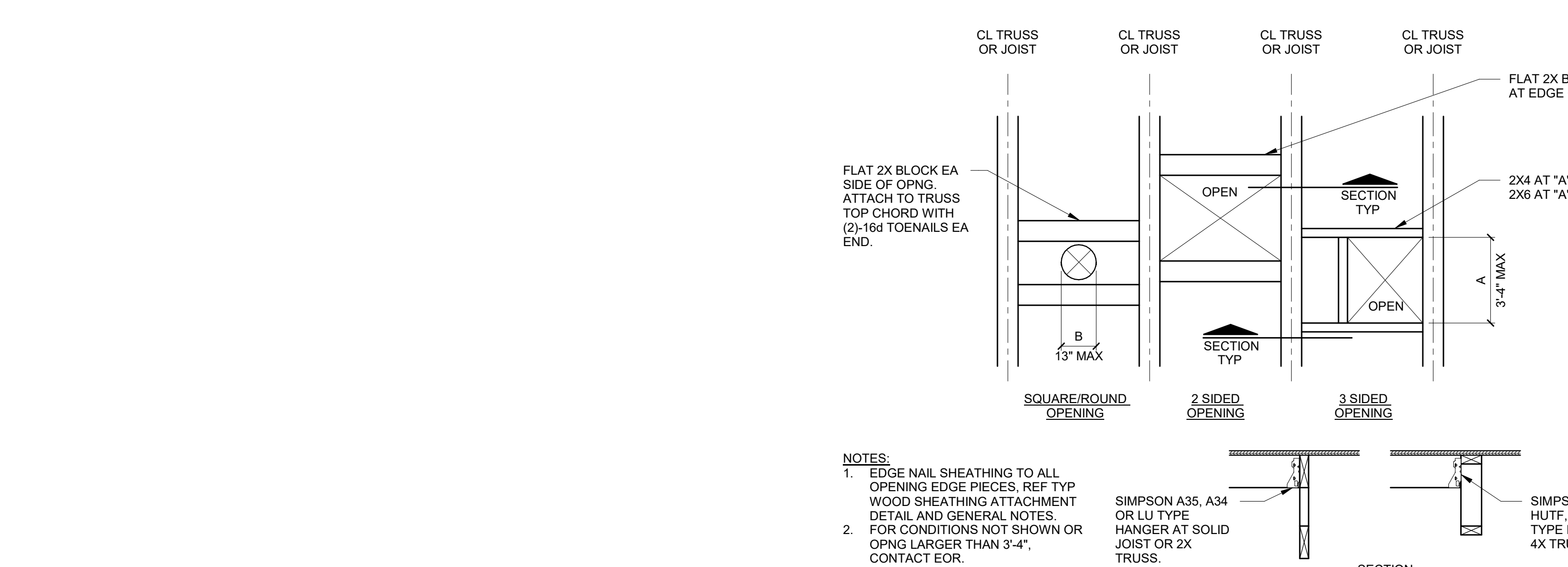


5 TRUSS BEARING ON CMU WALL
3/4" = 1'-0"

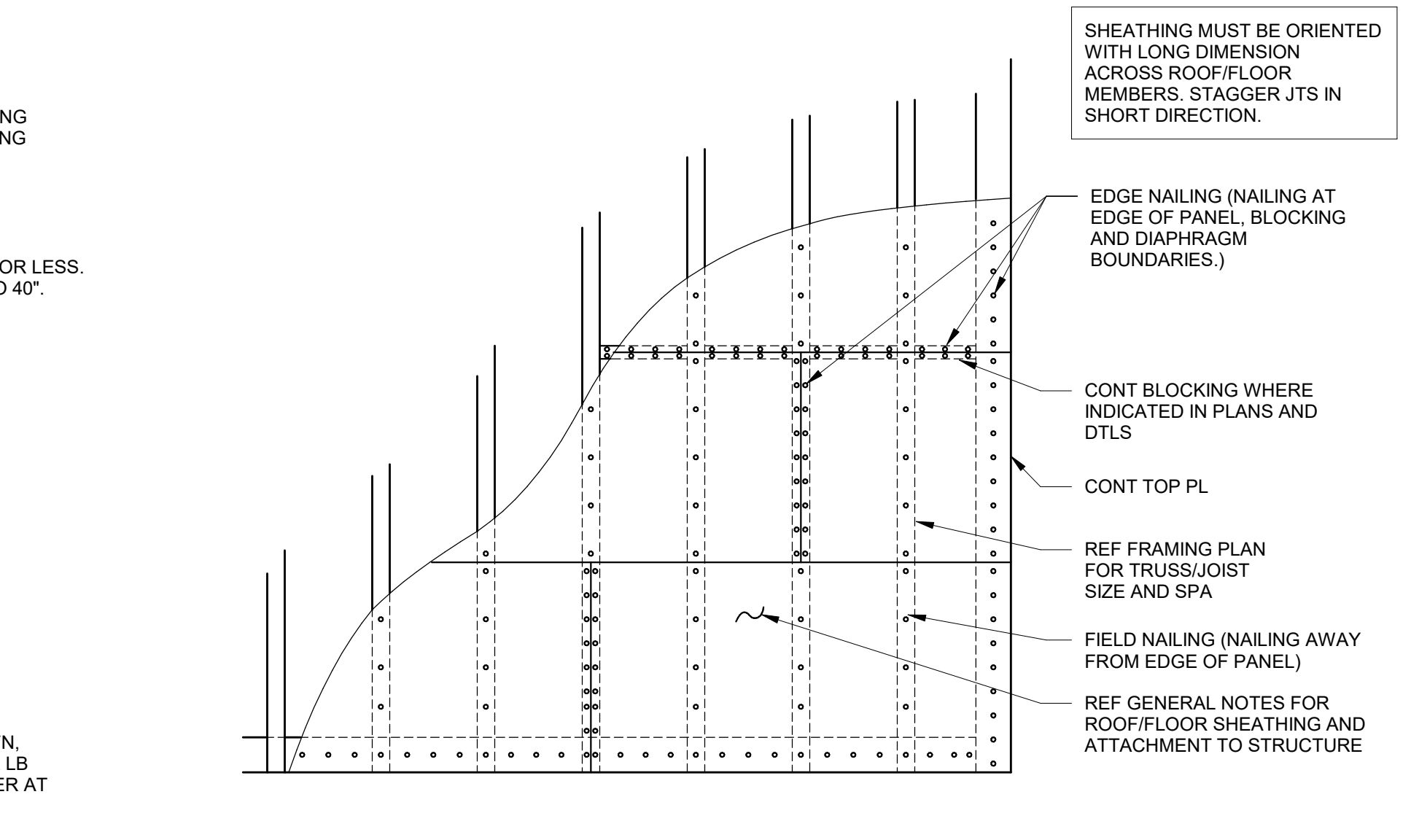
LEDGER TO CMU WALL		
LEDGER SIZE	SPACING OF STAGGERED SCREWS	NOTES
2X6	12" OC	
2X8	12" OC	
2X10	8" OC	
2X12	8" OC	
2X14	8" OC	



4 WOOD LEDGER DETAIL
NTS



3 SMALL OPENING IN WOOD SHEATHING
3/4" = 1'-0"



2 WOOD SHEATHING ATTACHMENT DIAGRAM
3/4" = 1'-0"

TYPICAL FASTENING SCHEDULE	
BLOCKING BETWEEN JOIST/RAFTER/TRUSS TO TOP PLATE	(3)-8d TOENAILS
BRIDGING/BLOCKING BETWEEN JOIST/RAFTER/TRUSS TO JOIST/RAFTER/TRUSS	(2)-8d TOENAILS EA. END
RAFTER/ROOF TRUSS TO TOP PLATE	(3)-10d TOENAILS
DOUBLE TRUSS CHORD (2x LUMBER LAYERS)	16d AT 16" O.C. FACE NAILS
RIM JOIST/BAND JOIST/BLOCKING TO TOP PLATE/SILL PLATE	8d AT 6" O.C. TOENAILS

NOTES:
1. THE ABOVE ARE MINIMUM NAILING REQUIREMENTS. REFER TO GENERAL NOTES, DETAILS, AND SCHEDULES FOR MORE STRINGENT REQUIREMENTS.
2. PROVIDE COMMON WIRE NAILS FROM U.S.A. OR CANADIAN MFR REFER TO NAIL SIZE SCHEDULE FOR NAIL SIZE.
3. REFER TO "FASTENER SCHEDULE" IN CHAPTER 23 OF THE IBC FOR MINIMUM WOOD FASTENING REQUIREMENTS NOT SHOWN.
4. PROVIDE HOT-DIPPED ZINC-COATED GALVANIZED NAILS AT EXTERIOR FACE OF WALLS.
5. REFER TO GENERAL NOTES AND SHEAR WALL SCHEDULE FOR SHEATHING ATTACHMENT.

1 FASTENING SCHEDULE
NTS

MECHANICAL	
	SUPPLY AIR DUCT, SECTION
	RETURN AIR DUCT, SECTION
	EXHAUST AIR DUCT, SECTION
	OUTDOOR AIR INTAKE, SECTION
	DUCT, WIDTH X DEPTH, PLAN
	INCLINE DUCT RISE
	INCLINE DUCT DROP
	FLEXIBLE CONNECTION
	LONG RADIUS ELBOW
	VOLUME DAMPER
	SQUARE ELBOW W/TURNING VANES
	BRANCH TAKEOFF WITH ADJUSTABLE EXTRACTOR
	SPLITTER DAMPER
	THERMOSTAT
	SPACE TEMPERATURE SENSOR
	EXHAUST AIR INLET
	CEILING RETURN INLET
	CEILING SUPPLY DIFFUSER
	DUCT WITH INTERNAL LINING
	ELECTRIC DUCT HEATER
	SQUARE OR RECTANGULAR BRANCH TAKEOFF WITH MANUAL BALANCING DAMPER
	ROUND BRANCH TAKEOFF WITH SCOOP EXTRACTOR AND MANUAL BALANCING DAMPER
	CONICAL TEE WITH ROUND DUCTWORK
	STATIC PRESSURE SENSOR
	UNIT HEATER
	SMOKE DETECTOR
	SUPPLY AIR FLOW
	RETURN AIR OR EXHAUST AIR FLOW
	DOOR UNDER CUT
	FIXED LOUVER W/BIRD SCREEN
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
	MOTORIZED DAMPER
	POINT OF CONNECTION
	PRESSURE TRANSMITTER
	AIR OUTLET
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN OXIDE SENSOR

PIPE AND FITTINGS	
	GATE VALVE
	GLOBE VALVE
	ANGLE GATE VALVE
	SOLENOID VALVE
	NON SLAM CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	BALL VALVE
	TWO WAY CONTROL VALVE
	PRESSURE REGULATOR
	THREE WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	AUTOMATIC AIR VENT
	STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
	FLEXIBLE CONNECTION
	JOINT
	EXPANSION JOINT
	FLOW METER
	FLOW DIRECTION
	ELBOW BASE
	ELBOW REDUCING
	UNION
	PRESSURE GAUGE WITH TRI-COCK
	PRESSURE INDICATOR
	TEST PLUG
	TEMPERATURE INDICATOR
	FLOW SWITCH
	METERED BALANCING VALVE WITH PRESSURE TAP
	PRESSURE TEMPERATURE TEST PLUG
	THERMOMETER
	THERMOMETER, DIAL
	THERMOWELL
	AUTO FLOW BALANCING VALVE
	FLOOR DRAIN W/P-TRAP
	WALL CLEANOUT
	BACKFLOW PREVENTER
	LUBRICATED PLUG COCK
	HOSE BIBB
	HORSE POWER/HEAT PUMP
	HEATING
	HUMIDISTAT
	HOT WATER SUPPLY
	HOT WATER BOILER
	HOT WATER PUMP
	HOT WATER RETURN
	PIPE SWAY BRACING
	PIPE ANCHOR SUPPORT
	BALANCING VALVE

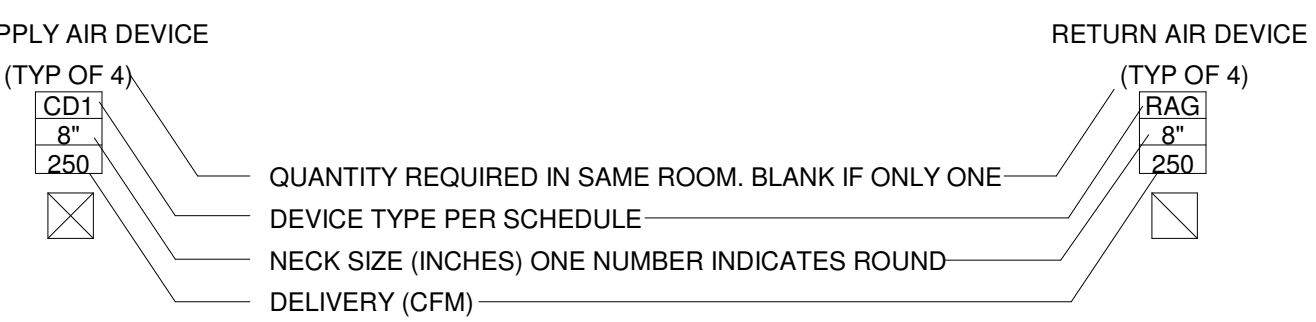
ABBREVIATIONS

A	ABOVE	K	KW	KILOWATT
ABV	ABOVE	L	LAB	LABORATORY
ACCU	AIR COOLED CONDENSING UNIT	LAT	LAV	LABORATORY LEAVING AIR TEMPERATURE
ACC	ACCESSORIES	LAV	LAV	LAVATORY
ACU	AIR CONDITIONING UNIT	LB	LB	POUND
AD	ACCESS DOOR	LD	LD	LINEAR DIFFUSER
AF	AIR FILTER	LDB	LDB	LEAVING DRY BULB
AFF	ABOVE FINISHED FLOOR	LF	LF	LINEAR FEET
AFH	AIR FILTER, HIGH EFFICIENCY	LFD	LFD	LAMINAR FLOW DIFFUSER
AHU	AIR HANDLING UNIT	LP	LP	LIQUID PROPANE
APD	AIR PRESSURE DROP	LS	LS	LITERS PER SECOND
AR	ACID RESISTANT	LWB	LWB	LEAVING WET BULB
ASSY	ASSEMBLY	LWT	LWT	LEAVING WATER TEMPERATURE
AUX	AUXILIARY	M	MAU	MAKE UP AIR UNIT
AV	AUTOMATIC AIR VENT	MAX	MAX	MAXIMUM
B	BACKDRAFT DAMPER	MB	MB	MIXING BOX/MOP BASIN
BDD	BACKDRAFT DAMPER	MBH	MBH	THOUSAND BTU/HHR
BHP	BRAKE HORSE POWER	MD	MD	MOTORIZED DAMPER
BP	BACKFLOW PREVENTER	MECH	MECH	MECHANICAL
BS	BIRD SCREEN	MIN	MIN	MINUTE/MINIMUM
C	CONDENSATE	MM	MM	MILLIMETERS
CL	CENTER LINE	MS	MS	MOTOR STARTER
CD	CEILING DIFFUSER	N	N	NITROGEN
CFM	CUBIC FEET PER MINUTE	NC	NC	NORMALLY CLOSED
CH	CHEMICAL DRAIN	NG	NG	NATURAL GAS
CHDR	CHILLED WATER PUMP	NIC	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NO	NUMBER
CLN	CLEANOUT	NOX	NOX	NITROGEN OXIDE
CONC	CONCRETE	NTS	NTS	NOT TO SCALE
CONN	CONNECTION	O	O	OXYGEN
CONT	CONTINUATION/CONTINUOUS	OA	OA	OUTSIDE AIR
COU	CLEAN OUT TO GRADE	OAL	OAL	OUTSIDE AIR LOUVER
CU	CONDENSING UNIT/COPPER	OBD	OBD	OPPOSED BLADE DAMPER
CW	CONSTANT VOLUME COLD WATER	OC	OC	ON CENTER
D	DIRECT DIGITAL CONTROL	OS	OS	OVERFLOW SCUPPER
DDC	DIRECT DIGITAL CONTROL	OS&Y	OS&Y	OUTSIDE SCREW & YOKE
DG	DOOR GRILLE	P	P	PRESSURE DROP
DIA	DIAMETER	PDC	PDC	POINT OF CONNECTION
DIM	DIMENSION	PRESS	PRESS	PRESSURE
DMPR	DAMPEN	PRV	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSIG	PSIG	POUNDS PER SQUARE INCH
DPS	DIFFERENTIAL PRESSURE SWITCH	PVC	PVC	POLYVINYL CHLORIDE
DR	DRAIN	R	RA	RETURN AIR
DSD	DUCT SMOKE DETECTOR	RAG	RAG	RETURN AIR GRILLE
DSW	DISTILLED WATER	RAR	RAR	RETURN AIR REGISTER
DWG	DRAWING	RC	RC	RAIN CONDUCTOR
E	ENTERING AIR TEMPERATURE	RD	RD	ROOF DRAIN
EAT	ENTERING AIR TEMPERATURE	REF	REF	REFERENCE
ED	EQUIPMENT DRAIN	RF	RF	RETURN FAN
EDB	ENTERING DRY BULB	RL	RL	RAIN LEADER
EER	ENERGY EFFICIENCY RATIO	RM	RM	ROOM
EF	EXHAUST FAN	RTN	RTN	RETURN
EFF	EFFICIENCY	S	SA	SUPPLY AIR
EG	EXHAUST GRILLE	SAG	SAG	SUPPLY AIR GRILLE
EL	ELEVATION	SAN	SAN	SANITARY
ELEC	ELECTRICAL	SAR	SAR	SUPPLY AIR REGISTER
ELT	ENTERING	SD	SD	SMOKE DAMPER
ER	EXHAUST REGISTER	SD/FD	SD/FD	SMOKE DAMPER/FIRE DAMPER
EWB	ENTERING WET BULB	SH	SH	SHEET
EWC	ELECTRIC WATER COOLER	SP	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SQ	SQ	SQUARE FEET
EXH	EXHAUST	SS	SS	STAINLESS STEEL
EWS	EYE WASH/SHOWER STATION	T	TCU	TERMINAL CONTROL UNIT
F	FLOOR CLEANOUT	TEMP	TEMP	TEMPERATURE
FCO	FLOOR CLEANOUT	TG	TG	TRANSFER GRILLE
FD	FIRE DAMPER/FLOOR DRAIN	TP	TP	TRAP PRIMER
FH	FUME HOOD	TR	TR	TYPICAL
FL	FLOOR	UC	UC	UNDERCUT
FLEX	FLEXIBLE	V	V	VENT
FOR	FUEL OIL RETURN	VAV	VAV	VARIABLE AIR VOLUME
FOS	FUEL OIL SUPPLY	VD	VD	VOLUME DAMPER
FP	FIRE PUMP	VEL	VEL	VELOCITY
FPI	FINS PER INCH	VERT	VERT	VERTICAL
FPM	FEET PER MINUTE	VFD	VFD	VARIABLE FREQUENCY DRIVE
FT	FEET	VSD	VSD	VARIABLE SPEED DRIVE
FV	FACE VELOCITY	VTR	VTR	VENT THRU ROOF
G	GAUGE	W	W	WITH
GA	GAUGE	WO	WO	WITHOUT
GIV	GRAVITY INTAKE VENTILATOR	WOC	WOC	WALL CLEANOUT
GND	GROUND	WC	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	WH	WH	WALL HYDRANT
GRV	GRAVITY RELIEF VENTILATOR	WHA	WHA	WATER HAMMER ARRESTORS
H	HOSE BIBB	WR	WR	WATER RISER
HORIZ	HORIZONTAL	WTR	WTR	WATER
HP	HORSE POWER/HEAT PUMP			
HTG	HEATING			
HUMID	HUMIDISTAT			
HWS	HOT WATER SUPPLY			
HWB	HOT WATER BOILER			
HWP	HOT WATER PUMP			
HWR	HOT WATER RETURN			
I	INSIDE DIAMETER			
ID	INSIDE DIAMETER			
IN	INCHES			
INV EL	INVERT ELEVATION			

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PIPE LINES		
---	---	POTABLE COLD WATER
---	---	POTABLE HOT WATER
---	---	POTABLE HOT WATER RETURN
---	---	VENT

DUCT TAGS		
XX' S/A	SUPPLY AIR	
XX' R/A	RETURN AIR	
XX' EXH.	EXHAUST AIR	
XX' O/A	OUTSIDE AIR	
XX' T/A	TRANSFER AIR	



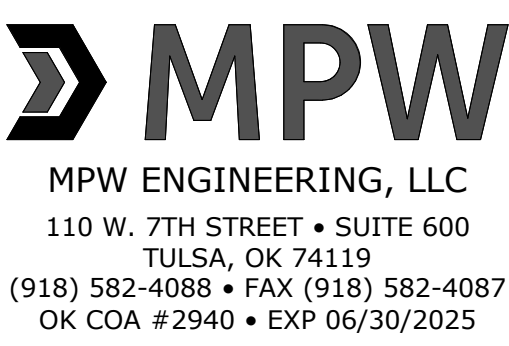
GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND OWNER TRAINING NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS, THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE STATE, COUNTY AND/OR LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS: INTERNATIONAL BUILDING CODE-MECHANICAL, SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 MECHANICAL REFRIGERATION.
 - THE TERM "PROVIDE" USED IN THE PROJECT SPECIFICATIONS AND DRAWINGS SHALL MEAN TO FURNISH, INSTALL, CONNECT, AND PLACE IN SERVICE COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM AND/OR MATERIAL DESCRIBED.
 - THE MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFIED GUIDELINES. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IN WRITING IF MECHANICAL SYSTEMS WILL NOT FIT IN AREA ALLOTTED.
 - SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY, FOR EXACT REQUIREMENTS SEE THE APPLICABLE SCHEDULES, LAYOUTS, DETAILS, AND THE SPECIFICATIONS, UNLESS OTHERWISE NOTED, ALL DUCTS, EQUIPMENT, PIPE SIZES, AND DIMENSIONS ARE IN ENGLISH UNITS.
 - THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
 - ENGINEER OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS TO BE LICENSE PROFESSIONALS IN THE STATE IN WHICH WORK IS TO BE PERFORMED. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST.
 - THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
 - THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS-BUILT" REDLINE DRAWINGS, UPON COMPLETION OF THE PROJECT AND AUTOCAD SHOP DRAWING FILES (IF APPLICABLE).
 - THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING AND ON COMPANY LETTER HEAD, ALL ITEMS VALUE ENGINEERED OR OMITTED FROM PROJECT BIDS. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND FOR EACH TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.
- DUCTWORK:**
- INTERIOR METAL DUCT SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL, LOCK-FORMING QUALITY, ASTM A653/653M. COATING DESIGNATION: MIL PHOSPHATIZED FINISH FOR SURFACES OF DUCT EXPOSED TO VIEW. FABRICATE DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS AND OTHER CONSTRUCTIONS ACCORDING TO SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS. METAL AND FLEXIBLE: COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. SUPPLY DUCTWORK DOWNSTREAM OF RTUS AND MAUS SHALL BE SMACNA 2" w.g. CLASSIFICATION. ALL OUTSIDE AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2" w.g. CLASSIFICATION). ALL RETURN AIR AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2" w.g. CLASSIFICATION).
 - FLEXIBLE DUCT SHALL COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R-6) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INNER LINER SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH MIMA'S "FIBROUS" GLASS DUCT CONSTRUCTION STANDARDS. INSULATION SHALL BE 1" (R-6) FOR USE IN UNCONDITIONED SPACE AND 1 1/2" (R-8) FOR USE IN UNCONDITIONED SPACE.
 - EXTERIOR RECTANGULAR METAL DUCT AND FITTINGS SHALL BE DOUBLE WALL CONSTRUCTION. THE OUTER SHELL SHALL BE FABRICATED WITH GALVANIZED SHEET STEEL LOCK-FORMING QUALITY. ASTM A653/653M. WITH ASTM G-90 GALVANIZED COATING. THE INSULATION SHALL BE 2" (R-8) FIBERGLASS DUCT WRAP. THE INNER SHELL SHALL BE 24 GA PERFORATED METAL WITH 3/32" DIAMETER HOLES ON 3/16" STAGGERED CENTERS. MYLAR SHALL BE INSTALLED BETWEEN THE FIBERGLASS DUCT WRAP AND THE PERFORATED INNER SHELL. ALL JOINT CONNECTIONS SHALL BE WARD ANGLE FLANGES WITH APPROPRIATE GASKETS. METAL GAUGES SHALL CONFORM TO SMACNA'S 3" w.g. STANDARDS. ALL PIECES SHALL HAVE NOSING ON BOTH ENDS. ALL SEAMS TO BE "PITTSBURGH" AND SEALED WITH SMACNA APPROVED EXTERIOR JOINT SEALANT. ALL 90 DEGREE ELBOWS SHALL HAVE DOUBLE TURNING VANES. APPROVED MANUFACTURERS; AUTODUCT/SEMCO
 - EXTERNAL DUCT INSULATION SHALL BE MINERAL FIBER BLANKET WITH GLASS FIBERS BONDED WITH THERMO SETTING RESIN. THE DUCT WRAP SHALL COMPLY WITH ASTM C653, TYPE II WITHOUT FACING AND WITH ALL SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCED SCRM, ALUMINUM FOIL AND VINYL FILM. APPLY INSULATION MATERIALS, ACCESSORIES AND FINISHES ACCORDING TO THE MANUFACTURERS WRITTEN INSTRUCTIONS. WITH SMOOTH, STRAIGHT AND EVEN SURFACES. AND FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCTS AND FITTINGS. INSULATION SHALL BE 1" (R-6) FOR USE IN UNCONDITIONED SPACE AND 1 1/2" (R-8) FOR USE IN UNCONDITIONED SPACE.
 - ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/0.
 - LAVATORY EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL OR CORRUGATED ALUMINUM FLEX DUCT WITH SEALED SEAMS AND JOINTS. ALL EXHAUST AIR DUCTS LOCATED IN AREAS WHERE DEWPOINT CONDITIONS COULD OCCUR SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATIONS WITH A MINIMUM OF R-6.
 - ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'-0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(W) OR AREA", (E.G. "EF-1 FOR LOCKER ROOM", "EF-1-1 FOR GRD FL TOILET", ETC.)
 - ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL TAKE-OFFS.
- THERMOSTATS/CONTROLS:**
- LOCATION OF THERMOSTATS SHALL BE ON INTERIOR WALLS APPROXIMATELY 48" AFF AND SHALL BE COORDINATED WITH SWITCHES, ETC. AT LOCATION SHOWN ON DRAWINGS.
 - VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL. VALVES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED WITHIN 18" OF THE CEILING. VALVES LOCATED IN SPACES WITHOUT CEILINGS SHALL BE ACCESSIBLE FROM THE FLOOR OR WITH A SIX' OR EIGHT FOOT LADDER.
 - CONTRACTOR SHALL PROVIDE OWNER/BUILDING MANAGER/BUILDING ENGINEER WITH 40 HOURS OF ONSITE AND/OR OFF SITE TRAINING IN THE CONTROL AND OPERATION OF THE HVAC SYSTEM. TIME AND LOCATION TO BE DETERMINED BY CLIENT.
 - PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED ASSEMBLIES. PROVIDE SMOKE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING SMOKE RATED ASSEMBLIES. PROVIDE RADIATION DAMPERS IN DIFFUSERS OF RATED CEILINGS. REFER TO ARCHITECTURAL LIFE SAFETY SHEETS FOR RATED ASSEMBLIES.
 - FOR ELECTRICAL OR CONTROL PANELS PROVIDE CLEARANCE PER NEX ARTICLE 110. DUCTS, PIPES, AND OTHER EQUIPMENT ARE NOT ALLOWED TO RUN OVER PANELS PER NEC.
 - THE GENERAL CONTRACTOR SHALL TEST AND BALANCE THE AIR SIDE SYSTEM UPON COMPLETION. THE FINAL TEST AND BALANCE MUST BE PERFORMED BY AN INDEPENDENT FIRM CONTRACTED BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE FIRM SHALL HOLD A CURRENT CERTIFICATION FROM A RECOGNIZED TEST AND BALANCE ORGANIZATION. THE TEST AND BALANCE OPERATION SHALL INCLUDE ALL AIR SIDE SYSTEMS REGARDLESS OF SIZE OF EQUIPMENT AND A TEST TO CONFIRM BUILDING IS NEUTRAL OR POSITIVELY PRESSURIZED. THE T & B FIRM SHALL PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEER UPON COMPLETION.
 - ALL OPERATIONS / MAINTENANCE MANUALS FOR EQUIPMENT SPECIFIED SHALL BE PROVIDED TO OWNER UPON COMPLETION OF PROJECT.



20210121.35.05 CN SHS PHASE 2

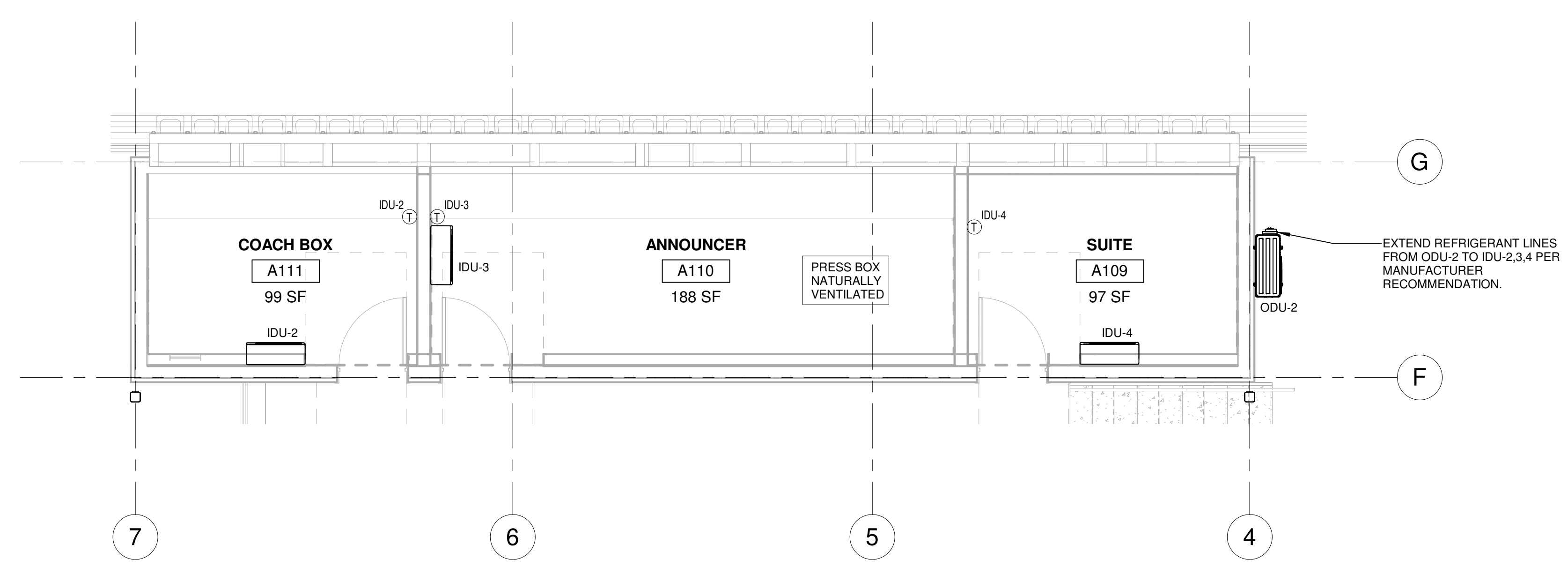
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M001
HVAC NOTES & LEGENDS



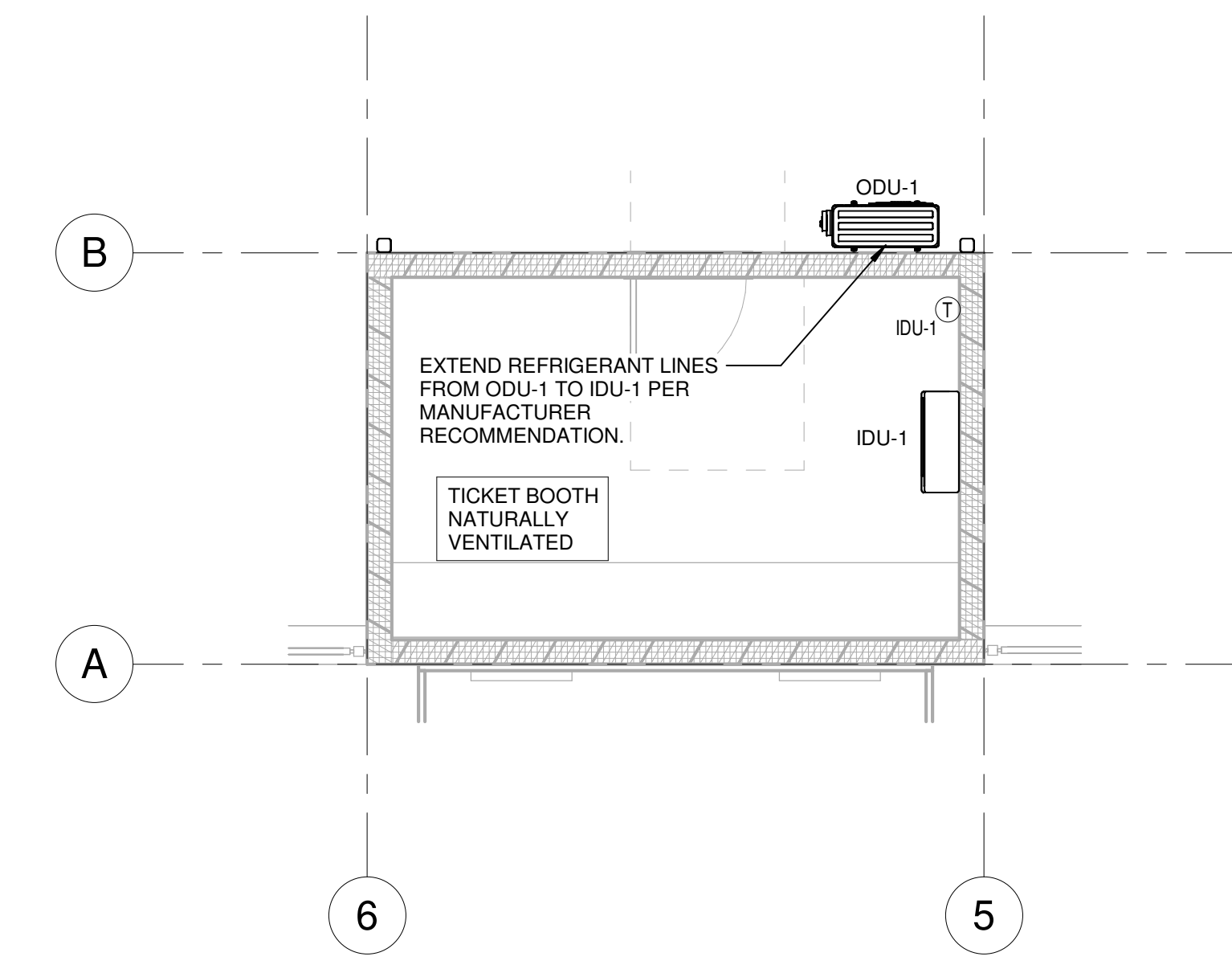
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20210121.35.05
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
HVAC NOTES & LEGENDS

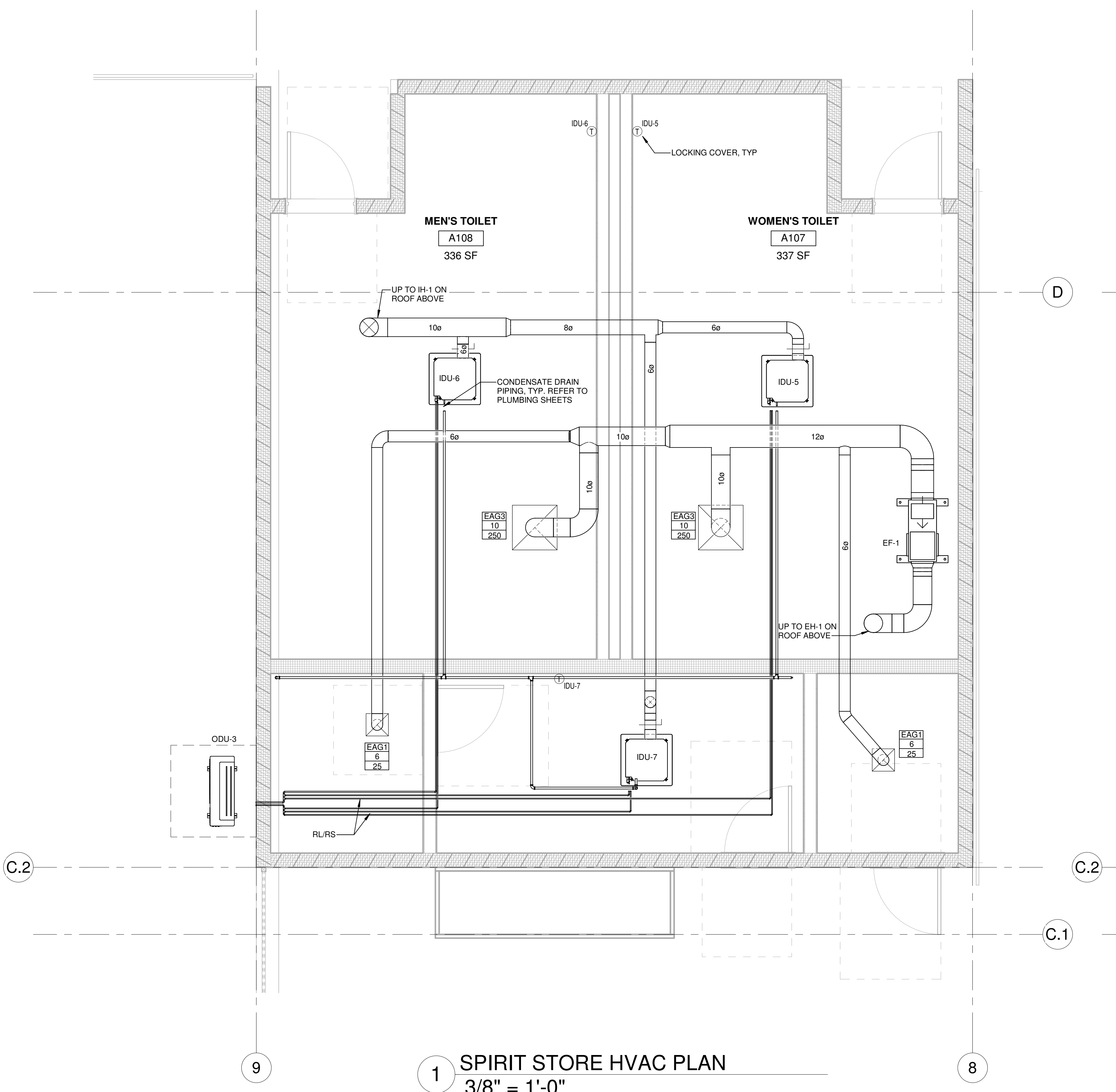
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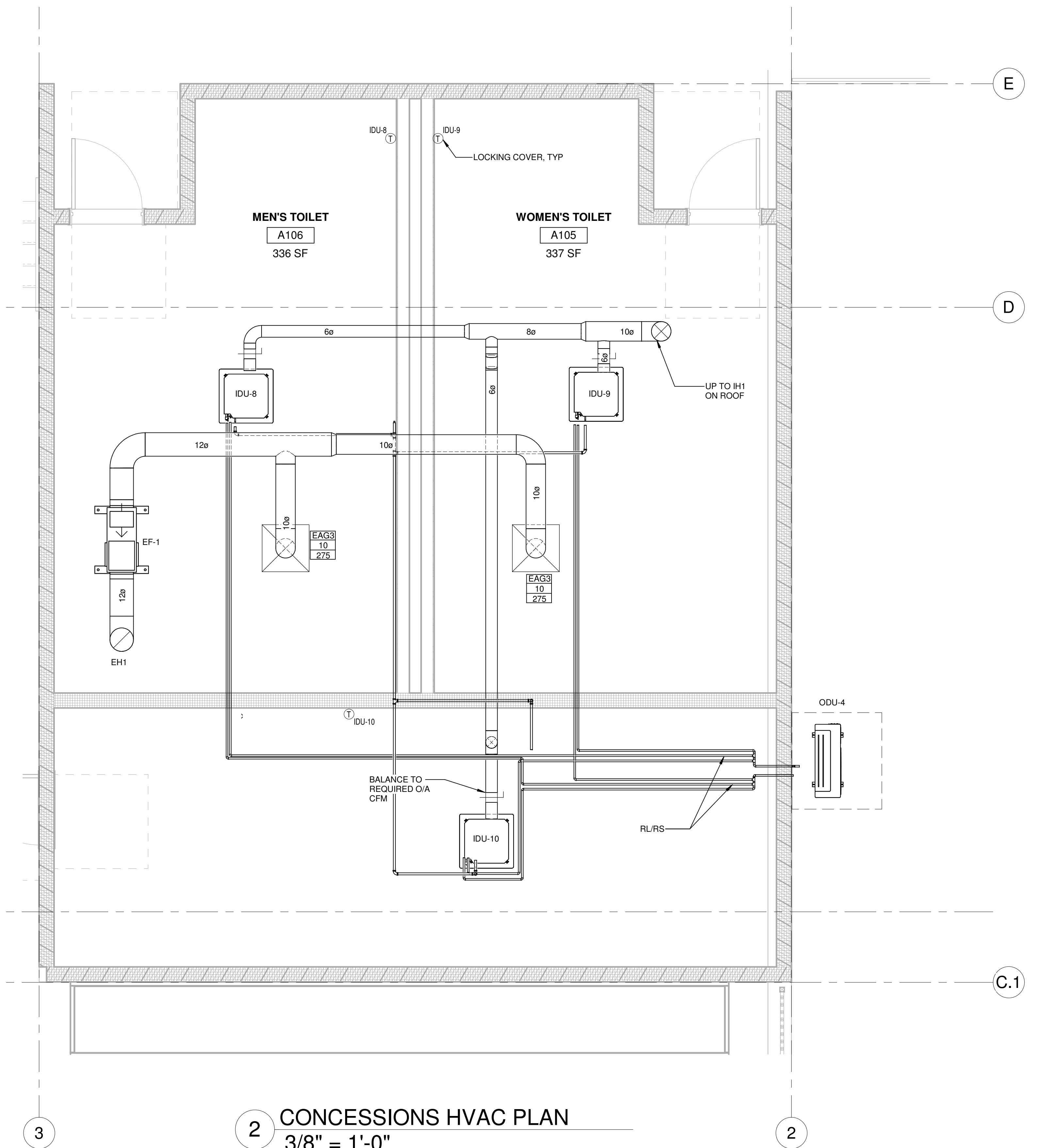
3 NEW PRESS BOX HVAC PLAN
1/4" = 1'-0"



4 TICKET BOOTH HVAC PLAN
1/4" = 1'-0"



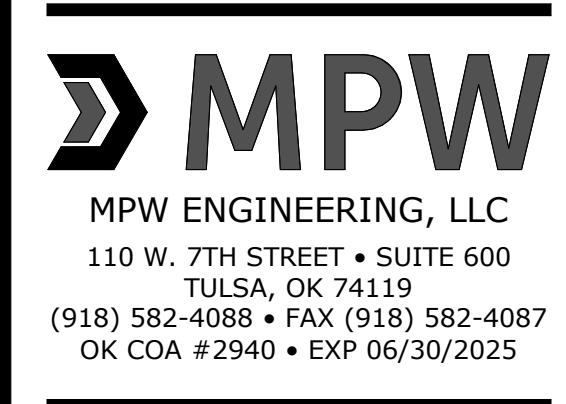
1 SPIRIT STORE HVAC PLAN
3/8" = 1'-0"



2 CONCESSIONS HVAC PLAN
3/8" = 1'-0"

20210121.35.05 CN SHS PHASE 2

ADDRESS HERE
M101
FIRST FLOOR HVAC PLAN



BLUE RIVER PROJECT NUMBER:
20210121.35.05
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
FIRST FLOOR HVAC PLAN

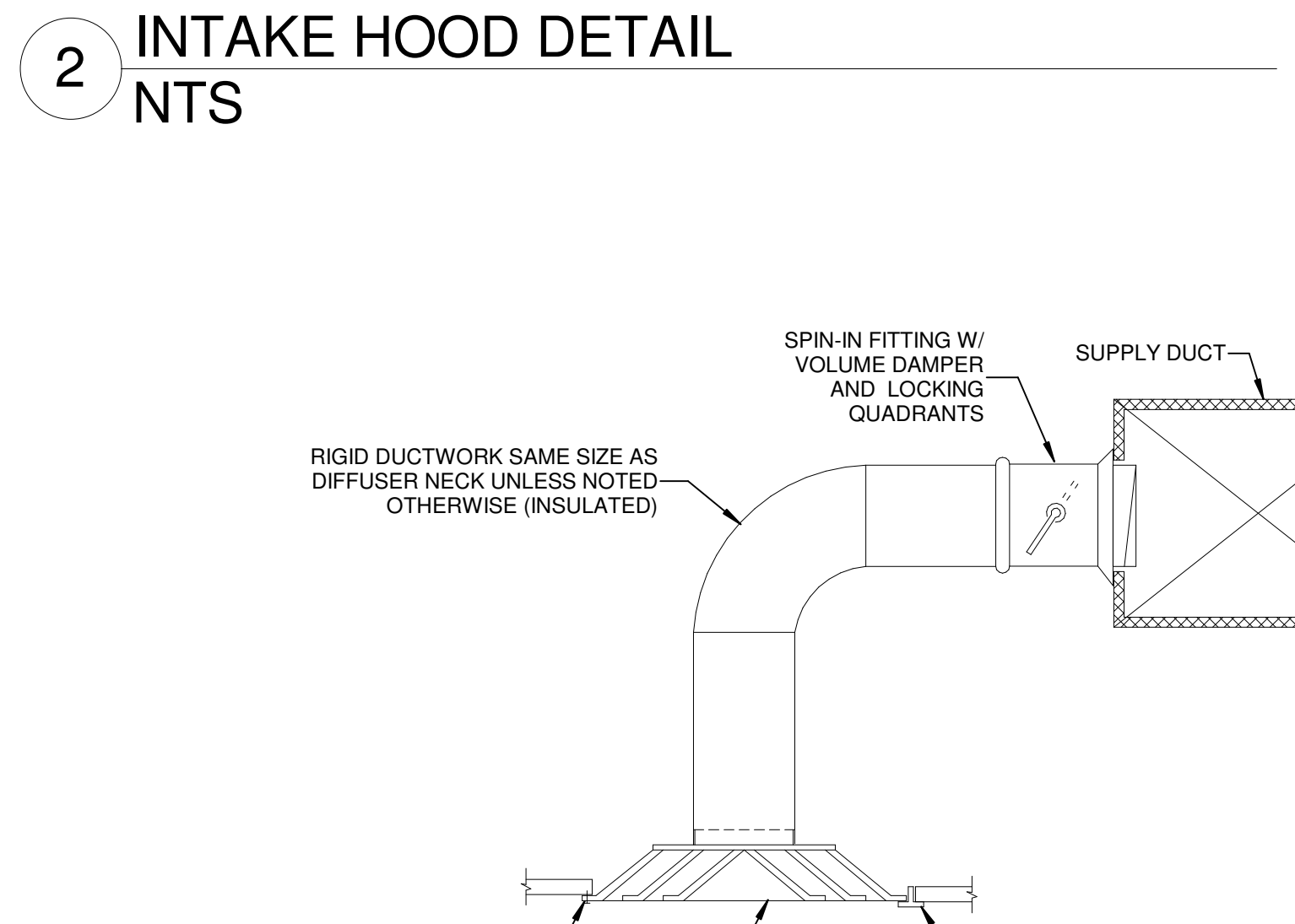
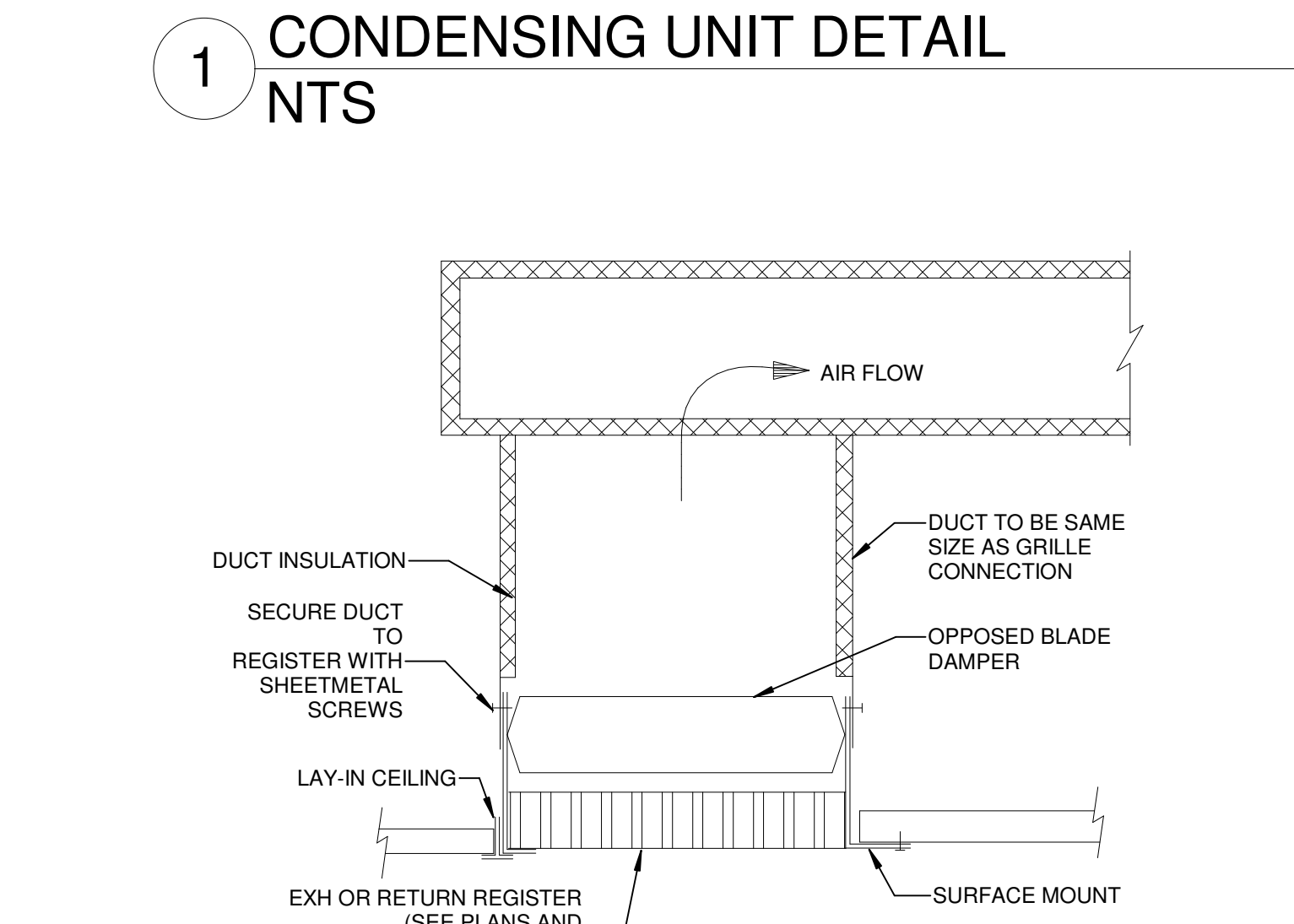
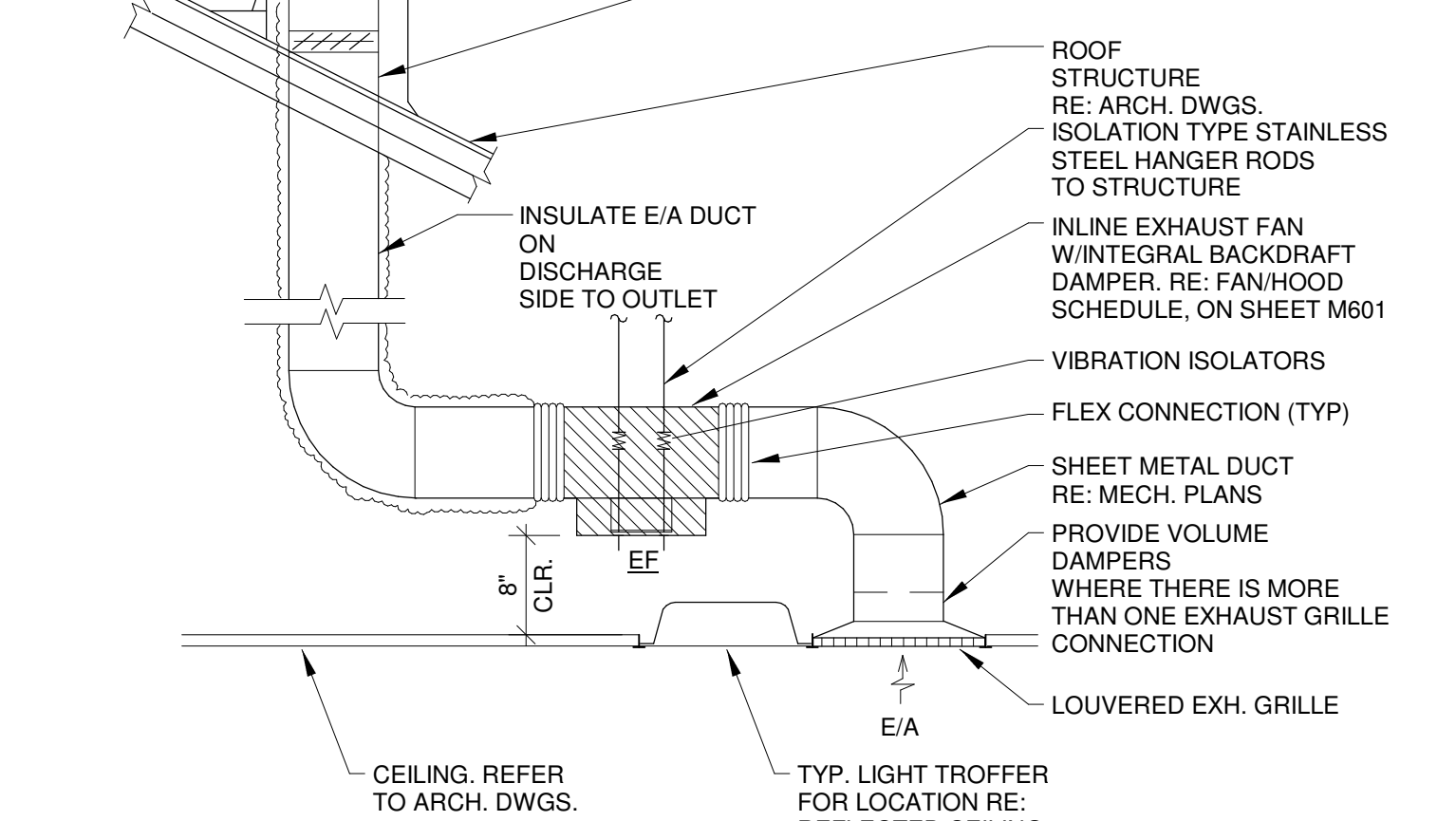
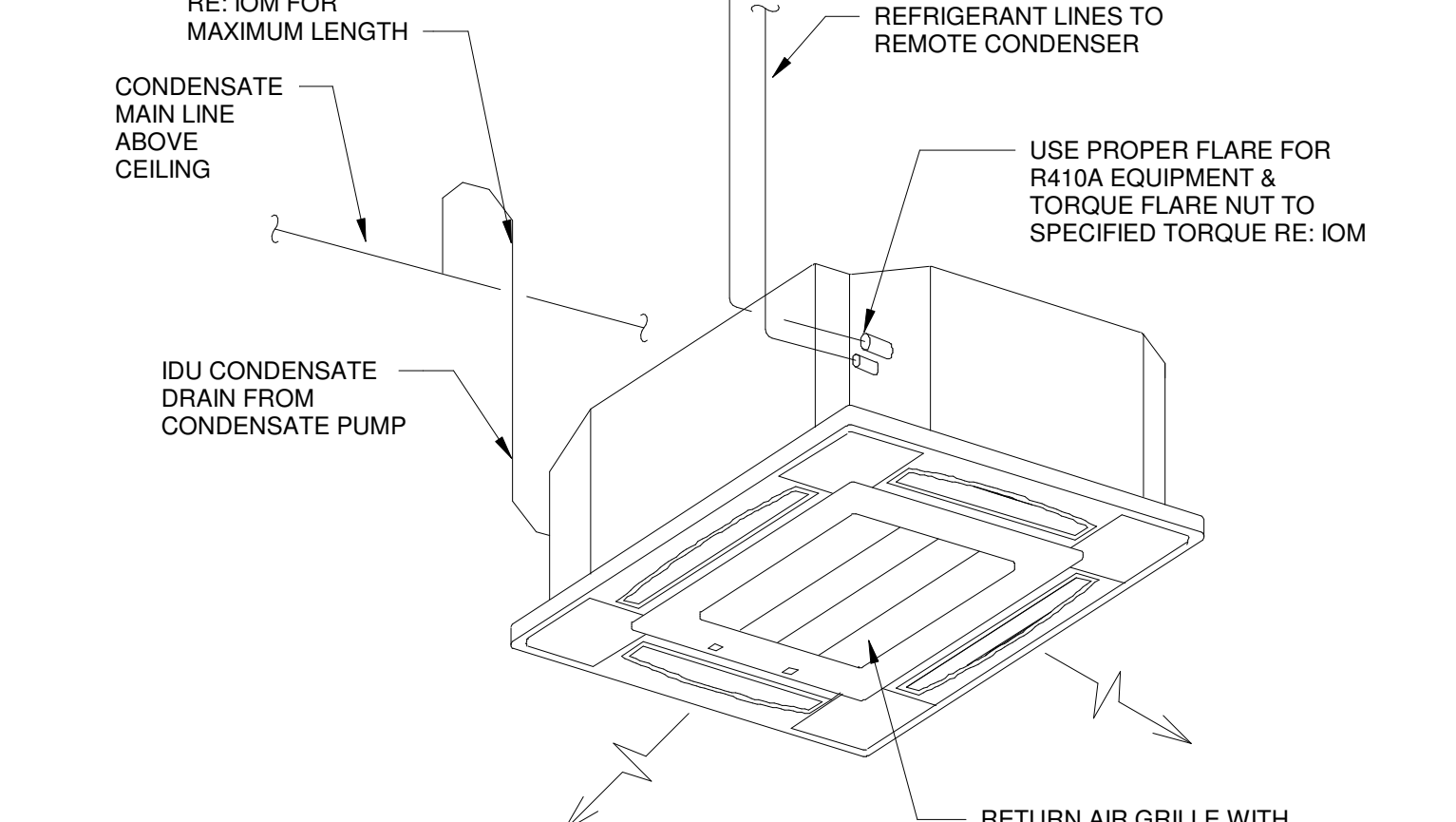
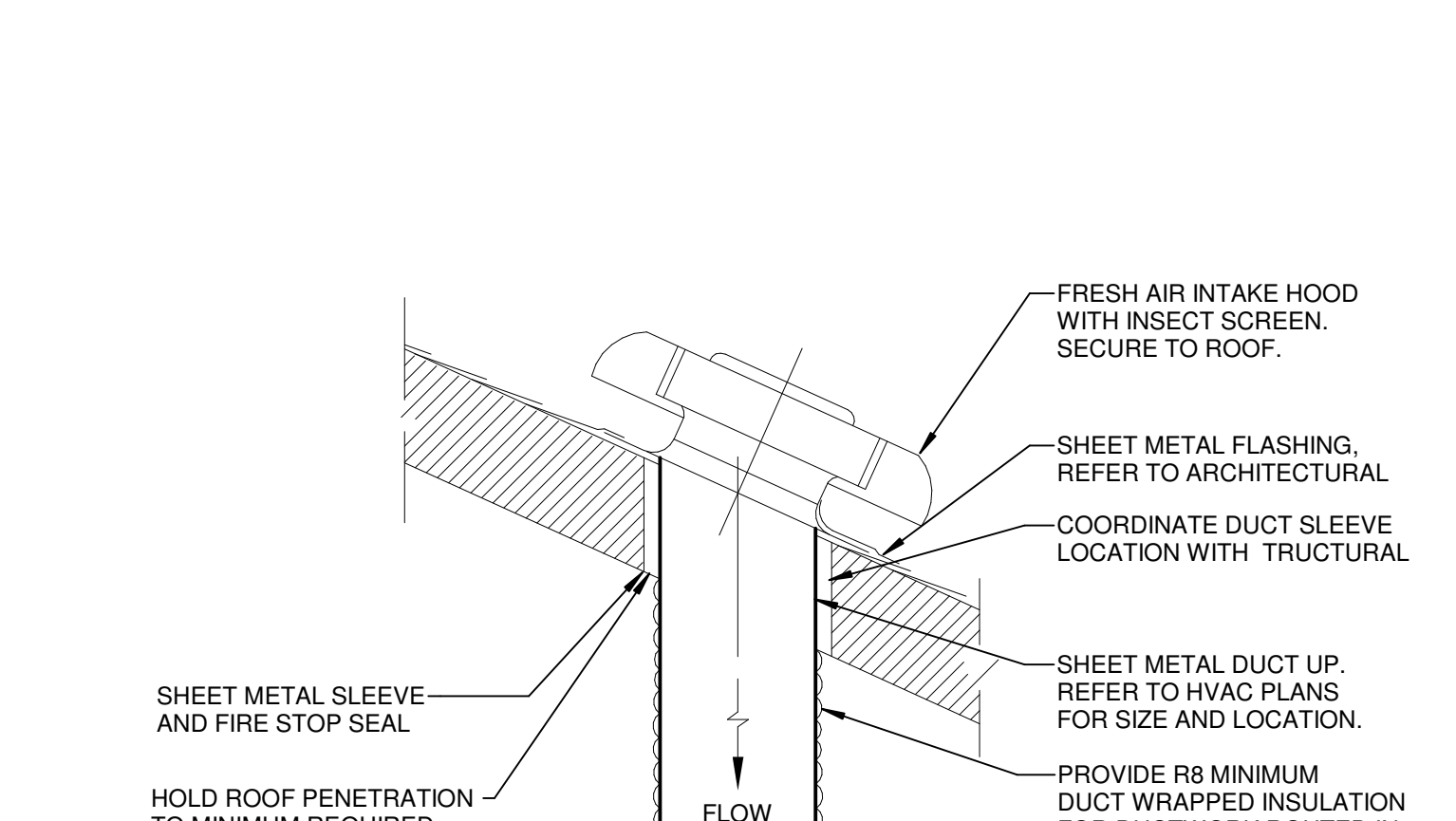
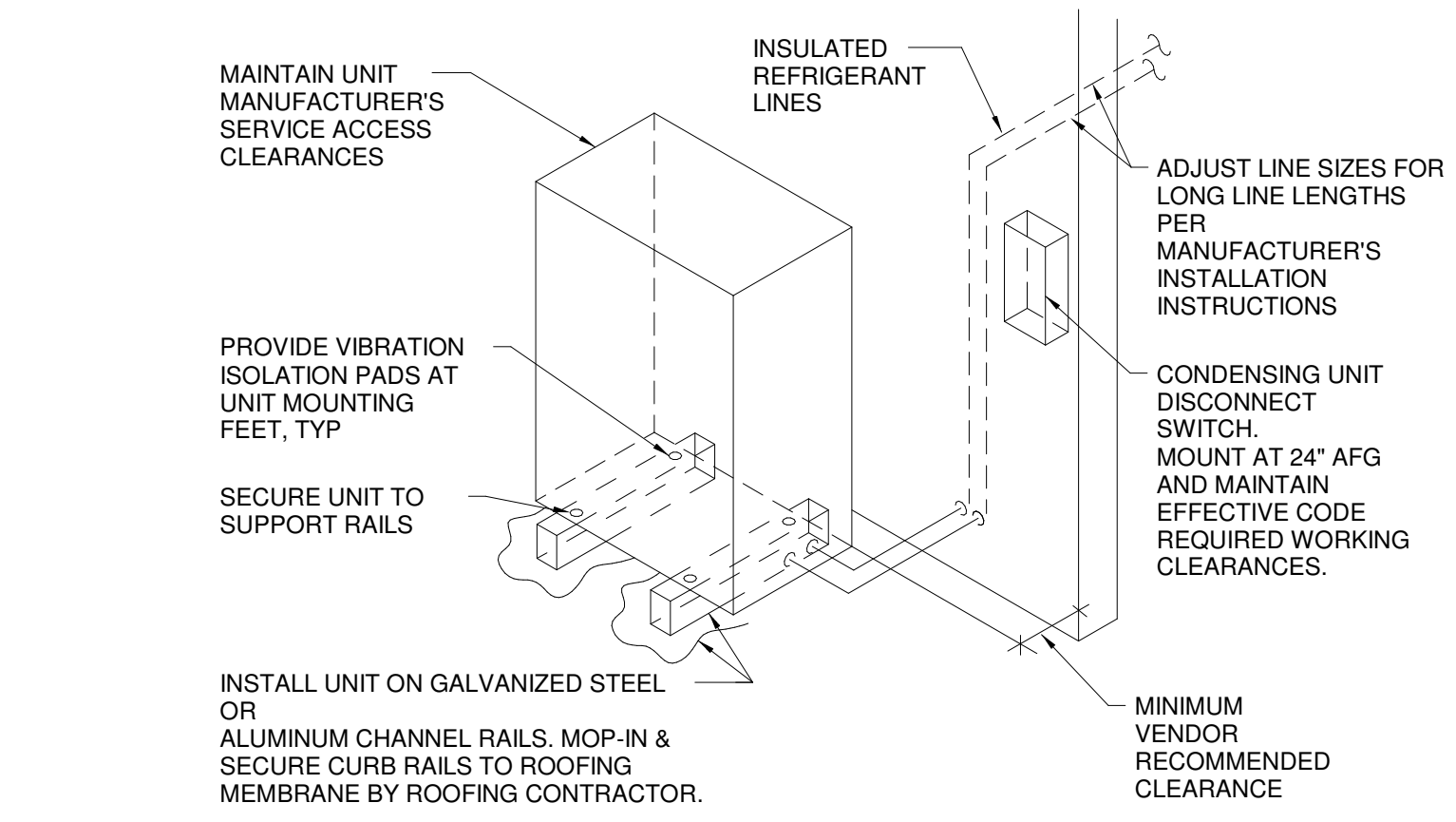
SHEET NUMBER:
M101

SPLIT SYSTEM - AIR-COOLED CONDENSING UNIT SCHEDULE																	
TAG	BASIS OF DESIGN (FRANE)	NOMINAL TONNAGE	DESCRIPTION	COOLING CAPACITY (RATED)		HEATING CAPACITY (RATED)		REFRIGERANT CHARGE		ELECTRICAL			DIMENSIONS		EFFICIENCY (NonDucted)		
				BTU/h	AMBIENT DESIGN (°F DB/WB)	BTU/h	AMBIENT DESIGN (°F DB/WB)	FACTORY CHARGE (LBS)	ADD'L REFRIGERANT (OZ/FT)	VOLTAGE - PHASE	MCA	MOP	(WxHxD) (inch)	Weight (LBS)	EER2 (95F)	SEER2	HSPF2
ODU 1	NTXSST09B112AA	0.75	OUTDOOR HEAT PUMP	9000	95/75	15900	47/43	2.0	1.08	208-230V 1ph	10	15	32 x 9 x 11.5	79	15.4	28.4	10.9
ODU 2	NTXSST09B112AA	2	OUTDOOR HEAT PUMP	28400	95/75	27600	47/43	4.0	1.08	208-230V 1ph	18	20	33 x 13 x 35	118	12.6	21.5	10.3
ODU 3	TRUZA0241HA70NA	2	OUTDOOR HEAT PUMP	24000	95/75	26000	47/43	7.0	0.7	208-230V 1ph	19	26	37.5 x 13 x 37	153	14.3	24.7	9.3
ODU 4	TRUZA0361KA70NA	3	OUTDOOR HEAT PUMP	36000	95/75	38000	47/43	10.0	0.7	208-230V 1ph	25	31	41.5 x 13 x 52.5	214	12.9	22	9.3

Schedule Notes:
1 MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.
2 SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING.
3 INVERTER-DRIVEN COMPRESSOR AND LEV PROVIDE HIGH EFFICIENCY.
4 SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO, DESIGN CONDITIONS, CONDENSER COIL COATING.
5 RATED FOR 2000 HOURS SPRAYING TIME PER ASTM B117 STANDARD.
6 EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM.
7 IDU THERMOSTATS MUST PROVIDE +/- 1 DEGREE DEAD-BAND SET-POINT AND CONTROL CAPABILITY.
8 MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.
9 SUBSTITUTE MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
10 CONTRACTOR TO VERIFY PIPING DIMENSIONS.
11 INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS.
12 CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING.
13 MANUFACTURERS REPRESENTATIVE MUST HAVE LOCAL STOCK OF PARTS AND FACTORY CERTIFIED TECHNICIAN ON STAFF.
14 MANUFACTURERS REPRESENTATIVE SHALL PROVIDE PROOF OF ONGOING INSTALLATION TRAINING AT THEIR LOCAL FACILITY FOR AT LEAST THE PAST 5 YEARS.
15 MANUFACTURERS REPRESENTATIVE SHALL PROVIDE PROOF OF CONTINUOUS SALES AND SUPPORT OF THEIR PRODUCTS FOR AT LEAST 15 YEARS.
16 MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIRECT COSTS AND OPERATING COSTS INCREASES FOR 20 YEARS ASSOCIATED WITH ANY DEVIATIONS RESULTING FROM CHANGES IN DESIGN.
17 MANUFACTURER MUST PROVIDE BRACKETS FOR WALL MOUNTED UNITS.

SPLIT SYSTEM - INDOOR UNIT SCHEDULE																		
TAG	BASIS OF DESIGN (FRANE)	NOMINAL TONNAGE	TYPE	CONNECTED TO:		SUPPLY FAN		COOLING CAPACITY			HEATING CAPACITY		ELECTRICAL		DIMENSIONS		WT.	NOTES
				CONDENSING UNIT	ZONE CHANGE/OVER DEVICE	AIRFLOW RATE CFM	OUTDOOR AIR CFM	TOTAL kBTU/h	SENSIBLE kBTU/h	ENTERING AIR °F DB °F WB	TOTAL BTU/h	ENTERING AIR °F DB	POWER SUPPLY VOLTAGE - PHASE	RATED AMPS	WxHxD INCH	NET LBS		
IDU-1	NTXWST09B112AA	0.75	WALL MOUNTED CASSETTE	ODU-1	NO	380	0	9	8.1	80	67	10900	70	208-230V 1PH	1	31.5 x 9.125 x 11.5	18.3	A,B,C,D,E
IDU-2	NTXWST09B112AA	0.75	WALL MOUNTED CASSETTE	ODU-2	NO	380	0	9	8.1	80	67	10900	70	208-230V 1PH	1	33 x 12.125 x 7.5	18.3	A,B,C,D,E
IDU-3	NTXWST09B112AA	0.75	WALL MOUNTED CASSETTE	ODU-2	NO	380	0	9	8.1	80	67	10900	70	208-230V 1PH	1	33 x 12.125 x 7.5	18.3	A,B,C,D,E
IDU-4	NTXWST09B112AA	0.75	WALL MOUNTED CASSETTE	ODU-2	NO	380	0	9	8.1	80	67	10900	70	208-230V 1PH	1	33 x 12.125 x 7.5	18.3	A,B,C,D,E
IDU-5	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-3	NO	370	50	5.8	5.16	80	67	8100	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E
IDU-6	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-3	NO	370	50	5.8	5.16	80	67	8100	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E
IDU-7	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-3	NO	370	40	5.8	5.16	80	67	8100	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E
IDU-8	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-4	NO	370	65	5.8	5.16	80	67	13800	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E
IDU-9	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-4	NO	370	65	5.8	5.16	80	67	13800	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E
IDU-10	TPLA0A0121EA80A	1	4-WAY DISCHARGE CEILING CASSETTE (3' X 3')	ODU-4	NO	530	80	12	10.68	80	67	13800	70	208-230V 1PH	1	33 x 33 x 10	46	A,B,C,D,E

SCHEDULE NOTES:
A EASE OF INSTALLATION WITH AUTO ADJUSTING AIRFLOW AT COMMISSIONING BASED ON EXTERNAL STATIC PRESSURE
B EASY MAINTENANCE WITH SERVICE ACCESS FROM BELOW
C BUILT-IN CONDENSATE PUMP (FXDQ_M, FXDQ_P, FXDQ_T, FXM_Q_M, FXM_Q_P, FXM_Q_U_P, FXM_Q_U_M)
D OPTIONAL MERV 8 AND 13 FILTERS (FXM_Q_M, FXM_Q_P)
E STANDARD LIMITED WARRANTY: 10-YEAR WARRANTY ON COMPRESSOR AND ALL PARTS
F PROVIDE LIGHT SWITCH STYLE SERVICE DISCONNECT TO BE WIRED BY ELECTRICAL.



ROOF HOOD SCHEDULE				
MARK	NECK SIZE	MANUFACTURER MODEL	DESCRIPTION	NOTES
IH-1	20" x 20"	GREENHECK GRH-8	SPUN ALUMINUM GRAVITY INTAKE VENTILATOR	1, 2, 3, 4, 5
EH-1	20" x 20"	GREENHECK GRH-8	SPUN ALUMINUM GRAVITY RELIEF VENTILATOR	1, 2, 3, 4, 6

NOTES:
1. PAINT TO MATCH ROOF. FINAL COLOR SELECTION BY ARCHITECT.
2. ACCEPTABLE ALTERNATE MANUFACTURERS: ARROW, CARNES, RUSKIN
3. PROVIDE WITH BRISCREEN, INSECT SCREEN ON OUTSIDE
4. PROVIDE ROOF CURB SLOPED TO MATCH ROOF PITCH
5. LOW VOLTAGE MOTORIZED DAMPER
6. LOW VOLTAGE BACKDRAFT DAMPER

GRILLE AND REGISTER SCHEDULE						
MARK	DESCRIPTION	BASIS OF DESIGN		FRAME TYPE	FACE SIZE	NOTES
		MANUFACTURER	MODEL			
EAG1	EXHAUST REGISTER	TITUS	45F	SURFACE MOUNT	12 x 12	1, 3, 4, 5, 6
EAG3	EXHAUST REGISTER	TITUS	45F	SURFACE MOUNT	24 x 24	1, 3, 4, 5, 6
CD4	DIFFUSER	TITUS	TMS	SURFACE MOUNT	AS SHOWN	1, 3, 4, 5, 6

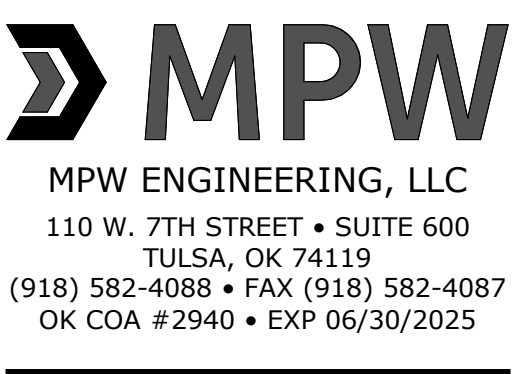
NOTES:
1. FURNISH WITH MANUFACTURER'S STANDARD OFF-WHITE FINISH.
2. ALL STEEL CONSTRUCTION.
3. MAXIMUM NC LEVEL OF 30 AND MAXIMUM VELOCITY PRESSURE OF 0.1" W.G.
4. ALL ALUMINUM CONSTRUCTION.
5. OPPOSED BLADE DAMPER.
6. INLET SIZES SHALL BE THE SAME SIZE AS SUPPLY OR RETURN DUCT UNLESS NOTED ON DRAWINGS.

EXHAUST FAN SCHEDULE													
MARK	LOCATION	MOUNTING	MANUFACTURER & MODEL NO.	EA FAN		WT. (LBS)	POWER (BHP)	DRIVE	MCA	MOP	ELECTRICAL		NOTES
				CFM	S.P.						VOLT	PH	
EF-1	RESTROOM	CEILING	GREENHECK CSP-A700	550	0.5	34	0.14	DIRECT	4.1	15	115	1	2

NOTES:
1. FAN TO OPERATE ONLY DURING BUILDING OCCUPANCY.
2. FAN TO INTERLOCK WITH LIGHT SWITCHES.



20210121.35.05 CN SHS PHASE 2



BLUE RIVER PROJECT NUMBER:
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SHEET NAME:
MECHANICAL SCHEDULES & DETAILS
SHEET NUMBER:
M601
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PLUMBING FIXTURE SCHEDULE							
MARK	MFR/MODEL	DESCRIPTION	RUN-OUT SIZES (MIN.)				NOTES
			SAN.	TRAP	VENT	CW	
WC1	KOHLER KINGSTON K-4325	WATER CLOSET: WALL MOUNTED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, LOW CONSUMPTION (1.6 GPF), HIGH EFFICIENCY TOILET, FULLY GLAZED 2 1/8" TRAPWAY, ELONGATED BOWL, WHITE, 15" RIM HEIGHT, DIRECT FED SIPHON JET ACTION, 1 1/2" INLET SPUD, MATCHING BOLT CAPS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.	4"	--	2"	1"	N/A 1-4
	ZURN Z1203 & Z1204	CLOSET CARRIERS: 500 LB. MINIMUM CAPACITY, DURA-COATED CAST IRON, VENT CONNECTION, ADJUSTABLE GASKETED FACEPLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND STUD PROTECTOR. REAR ANCHOR TIE DOWN, ADJUSTABLE HORIZONTAL SIPHON JET NO-HUB (Z1203 SERIES) OR ADJUSTABLE VERTICAL SIPHON JET NO-HUB (Z1204 SERIES) REFER TO PLANS FOR SYSTEM.					
	BEMIS 1995SSTFR	SEAT: WHITE, ELONGATED SEAT, OPEN FRONT LESS COVER, SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGES.					
	DELTA 81201HWA	EXPOSED HARD WIRED SENSOR ACTIVATED WATER CLOSET FLUSHOMETER: TOP SPUD BOWLS, QUIET, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER, POLISHED CHROME, INFRARED SENSOR, 6 SECOND ARMING DELAY, ELECTRONIC OPERATED NON-HOLD OPEN METAL MANUAL OVERRIDE BUTTON WITH 5 SECOND LOCKOUT, COVER TUBE, STAINLESS STEEL WALL FLANGE, SPUD FLANGE, CONCEALED SPUD NUT AND OUTLET TUBE. PROVIDE WITH 120V TO 24VAC TRANSFORMER.	4"	--	2"	1"	N/A 1-4
WC2	KOHLER KINGSTON K-4325	WATER CLOSET: WALL MOUNTED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, LOW CONSUMPTION (1.6 GPF), HIGH EFFICIENCY TOILET, FULLY GLAZED 2 1/8" TRAPWAY, ELONGATED BOWL, WHITE, 15" RIM HEIGHT, DIRECT FED SIPHON JET ACTION, 1 1/2" INLET SPUD, MATCHING BOLT CAPS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. ADA INSTALLATION.	4"	--	2"	1"	N/A 1-4
	ZURN Z1203 & Z1204	CLOSET CARRIERS: 500 LB. MINIMUM CAPACITY, DURA-COATED CAST IRON, VENT CONNECTION, ADJUSTABLE GASKETED FACEPLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND STUD PROTECTOR. REAR ANCHOR TIE DOWN, ADJUSTABLE HORIZONTAL SIPHON JET NO-HUB (Z1203 SERIES) OR ADJUSTABLE VERTICAL SIPHON JET NO-HUB (Z1204 SERIES) REFER TO PLANS FOR SYSTEM.					
	BEMIS 1995SSTFR	SEAT: WHITE, ELONGATED SEAT, OPEN FRONT LESS COVER, SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGES.					
	DELTA 81201HWA	EXPOSED HARD WIRED SENSOR ACTIVATED WATER CLOSET FLUSHOMETER: TOP SPUD BOWLS, QUIET, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER, POLISHED CHROME, INFRARED SENSOR, 6 SECOND ARMING DELAY, ELECTRONIC OPERATED NON-HOLD OPEN METAL MANUAL OVERRIDE BUTTON WITH 5 SECOND LOCKOUT, COVER TUBE, STAINLESS STEEL WALL FLANGE, SPUD FLANGE, CONCEALED SPUD NUT AND OUTLET TUBE. PROVIDE WITH 120V TO 24VAC TRANSFORMER.					
UR1	KOHLER DAROOD K-4991-ET-0	URNAL, WALL MOUNTED, WHITE, VITREOUS CHINA, 0.125 TO 1.0 GPF LOW-CONSUMPTION ELONGATED, 14" 1/8" RIM FROM FINISHED WALL, 3/4" INLET. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. ADA COMPLIANT.	2"	--	1 1/2"	3/4"	N/A 1-4
	ZURN Z1221	WALL URINAL SUPPORT WITH TOP SUPPORT PLATE, COMPLETE WITH DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATE AND MOUNTING FASTENERS. PROVIDE FLUSH VALVE SUPPORT.					
	DELTA 812231HWA	EXPOSED HARD WIRED OPERATED 3/4" TOP INLET URINAL FIXTURE: POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH 4" WALL MOUNT SENSOR, ADA COMPLIANT, AUTOMATIC OPERATION HARDWARE POWERED HOPTICS, ELECTRONIC MANUAL OVERRIDE, QUIET, INFRARED SENSOR, COVER TUBE, STAINLESS STEEL WALL FLANGE, SPUD FLANGE, CONCEALED SPUD NUT AND OUTLET TUBE WITH 120V TO 24VAC TRANSFORMER.					
LV1	SLOAN ELGR-82000	UNDER MOUNT BATHROOM LAVATORY: WHITE VITREOUS CHINA, FRONT OVERFLOW, NO FAUCET HOLES, INCLUDES CLAMP ASSEMBLY, 17 5/8" X 13 7/8" X 1 1/2", RECTANGULAR SINK, ADA ACCESSIBILITY COMPLIANT. PROVIDE CHROME PLATED GRIND DRAIN, P-TRAP AND TAIL PIECE.	2"	1 1/2"	1 1/2"	1 1/2"	1 1/2" 1-4
	SLOAN EAF-150	BATTERY-POWERED DECK-MOUNTED MID BODY, COMMERCIAL GRADE, ADA COMPLIANT, ELECTRONIC, SENSOR ACTIVATED, DIE-CAST METAL HAND WASHING FAUCET, 1.5 GPM, AERATED, POLISHED CHROME, INTEGRATED SIDE MIXER, 12S TIMEOUT.					
SK1	DAYTON D11719	DAYTON STAINLESS STEEL 17" X 19" X 6 1/8", SINGLE BOWL, DROP-IN BAR SINK. SINK IS MANUFACTURED FROM 22 GAUGE 300 SERIES STAINLESS STEEL WITH A SATIN FINISH, CENTER DRAIN PLACEMENT, AND BOTTOM ONLY PADS.	2"	2"	1 1/2"	1 1/2"	1 1/2" 1-4
	PRO-FLO PFWSC1390	TWO HANDLE BAR FAUCET, CERAMIC CARTRIDGES, METAL LEVER HANDLES, MAX FLOW RATE 1.2 GPM @ 60 PSI, 100% FACTORY PRESSURE TESTED, cUPC/IAPO/MS LISTED, ADA COMPLIANT, CHROME					
IWH1	CHRONOMITE CM-20L240	INSTANTANEOUS THERMOSTATIC/ELECTRIC WATER HEATER-13.5" W x 13.5" H x 3 1/4" D, FLA: 20 AMPS, 240 V/60, 4.18 KW, 57 DEG RISE AT 0.5 GPM, 0.2 GPM FOR ACTIVATION, 5 LBS. OUTLET TEMP SET AT 110 DEG F. MAX.	--	--	--	3/8"	3/8" 5
IWH2	CHRONOMITE R-58L240	INSTANTANEOUS THERMOSTATIC/ELECTRIC WATER HEATER-9-7/8" W x 10-5/8" L x 4-1/4" D, FLA: 58 AMPS, 240 V/60, 13.9 KW, 63 DEG RISE AT 1.5 GPM, 0.35 GPM ACTIVATION, 10 LBS. OUTLET TEMP SET AT 120 DEG F. MAX.	--	--	--	3/8"	3/8" 5
IWH3	CHRONOMITE SR20L120	INSTANTANEOUS THERMOSTATIC/ELECTRIC WATER HEATER-9-5/8" W x 6 1/2" H x 2 3/4" D, FLA: 20 AMPS, 120 V/60, 2.4 KW, 47 DEG RISE AT 0.35 GPM, 10 LBS. OUTLET TEMP SET AT 105 DEG F. MAX.	--	--	--	3/8"	3/8" 5
SS1	FIAT MSB2424	MOLDED STONE MOP SERVICE BASIN, SERVICE FAUCET (830-AA), STAINLESS STEEL WALL GUARD (MS2424)	3"	--	2"	3/4"	3/4" 1-4

- NOTES:
- PROVIDE CHROME PLATED BRASS ADJUSTABLE P-TRAPS AND SUPPLY STOPS AND ESCUTCHEON PLATES AS REQUIRED FOR EACH FIXTURE.
 - NO SUBSTITUTIONS WITHOUT ENGINEER OR ARCHITECT APPROVAL. MANUFACTURERS OFFERING EQUIVALENT PRODUCTS FOR THE FOLLOWING: FLUSHOMETER VALVES: DELANY, SLOAN, VITREOUS CHINA FIXTURES: CRANE, ELI, KOHLER, SLOAN, WATER CLOSET SEATS: BEMIS, CHURCH, OLSONITE. SUPPLY FITTINGS: AMERICAN STANDARD, KOHLER, T&S BRASS, ELECTRIC WATER COOLERS: ACORN.
 - ALL FIXTURES SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - DESCRIPTION OF FIXTURE IN SCHEDULE TAKES PRECEDENCE OVER MODEL NUMBERS. FIXTURE SUPPLIER SHALL PROVIDE REQUIRED ACCESSORIES AND OPTIONS FOR THE INTENDED INSTALLATION AND USE.
 - WALL MOUNTED INSTANTANEOUS WATER HEATER. REFER TO ARCHITECT FOR EXACT LOCATION.

ABBREVIATIONS:
 ADA = AMERICANS WITH DISABILITIES ACT AFF = ABOVE FINISH FLOOR
 GPF = GALLONS PER FLUSH V.C. = VITREOUS CHINA
 C.P.B. = CHROME PLATED BRASS TAS = TEXAS ACCESSIBILITY STANDARD

PLUMBING SPECIALTIES SCHEDULE		
MARK	MFR/MODEL	DESCRIPTION
FD1	ZURN ZN-415-SS-P	LIGHT DUTY FLOOR DRAIN: 5" SQ. STRAINER, CAST IRON DRAIN W/ FLANGE, REVERSING CLAMPING COLLAR, ADJUSTABLE SQUARE NICKEL-BRONZE STRAINER, BOTTOM OUTLET, TRAP PRIMER CONNECTION, 2" TRAP AND OUTLET UNLESS NOTED OTHERWISE. WHERE APPROVED BY LOCAL AHJ, CONTRACTOR MAY INSTALL A TRAP GUARD (TG) IN LIEU OF TRAP PRIMER (TP).
FS1	ZURN FS12-6-PV3-Y	POLYMER FLOOR SINK WITH PLASTIC SEDIMENT BUCKET, 3" NO HUB CONNECTION, AND 6 3/8" SUMP DEPTH.
FCO	ZURN ZN-1400	FLOOR CLEANOUT WITH WATER-GAS TIGHT ABS THREADED PLUG, POLISHED NICKEL BRONZE SCORIATED ACCESS COVER.
WCO	ZURN Z-1446	WALL CLEANOUT TEE WITH GAS AND WATERTIGHT TAPERED THREADED PLUG, ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
YCO	ZURN Z-1474	YARD CLEANOUT: HEAVY DUTY HOUSING, DURA-COATED CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE, SECURED SCORIATED COVER WITH LIFTING DEVICE.
FPWH	WOODFORD	FREEZE PROOF WALL HYDRANT, EXPOSED TYPE, AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, ASSE STANDARD 1019-S, LOOSE TEE KEY, PROVIDE LOCKING COVER.
BFP	WATTS SERIES LF007	LEAD-FREE DOUBLE CHECK VALVE ASSEMBLY: PROVIDE WITH GAP AND TETHER TEST COCKS, QUARTER-TURN BALL VALVES, BRONZE STRAINER AND DRAIN LINE AIR GAP FITTING MODEL 909AG, ROUTE FULL LINE SIZE TO FLOOR DRAIN.
TP	ZURN Z-1022	SANIQUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY WITH INTEGRAL VACUUM BREAKER, NON-LIMITING INTERNAL OPERATING ASSEMBLY WITH GASKETED BRONZE COVER. PROVIDE NECESSARY DISTRIBUTION UNIT (DU) UP TO 4 TRAP CONNECTIONS. LOCATE IN AN ACCESSIBLE LOCATION OR IF CONCEALED PROVIDE ACCESS PANEL FOR SERVICE & INSPECTION. PROVIDE AS REQUIRED PER AUTHORITY HAVING JURISDICTION.
TG	ZURN - Z1072-3	ZSHIELD TM BARRIER TRAP SEAL DEVICE FOR USE WITH FLOOR DRAINS TO MINIMIZE TRAP EVAPORATION. PRODUCT IS COMPRISED OF AN ABS RIGID STRUCTURE, SILICONE GASKET AND SEAL FOR 2" (51 MM), 3" (76 MM), 3-1/2" (89 MM), AND 4" (102 MM) SIZES. DEVICE IS ENGINEERED TO COMPLY WITH THE PERFORMANCE REQUIREMENTS OF ASSE 1072 STANDARD AND IS THIRD PARTY LISTED WITH IAPMO (UPC), ICC (ICC CES PMG) AND ASSE.
IMB	OATEY 39152	SQUARE ICE MAKER OUTLET BOX, 1/4 TURN, COPPER, HAMMER, LOW HEAD - STANDARD PACK

- NOTES:
- ALL DEVICES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER INSTRUCTIONS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ).
 - THE DEVICE DESCRIPTION IN THE SCHEDULE TAKES PRECEDENCE OVER MODEL NUMBERS. FIXTURE SUPPLIER SHALL PROVIDE THE REQUIRED ACCESSORIES AND OPTIONS FOR THE INTENDED INSTALLATION AND USE.
 - OTHER MANUFACTURERS OFFERING EQUIVALENT PRODUCTS ARE ACORN, JOSAM, MIFAB, WARE, J.R. SMITH, SYMONS, POWERS, LAWLER AND WATTS.
 - ALL FIXTURES AND FITTINGS USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE.

PIPE AND FITTINGS	
	GATE VALVE
	GLOBE VALVE
	ANGLE GATE VALVE
	SOLENOID VALVE
	NON SLAM CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	BALL VALVE
	TWO WAY CONTROL VALVE
	PRESSURE REGULATOR
	THREE WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	AUTOMATIC AIR VENT
	STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
	FLEXIBLE CONNECTION
	JOINT
	EXPANSION JOINT
	FLOW METER
	FLOW DIRECTION
	ELBOW BASE
	ELBOW REDUCING
	UNION
	PRESSURE GAUGE WITH TRI-COCK
	PRESSURE INDICATOR
	TEST PLUG
	TEMPERATURE INDICATOR
	FLOW SWITCH
	FLOW INDICATOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC STRAIGHT CROWN
	REDUCER, ECCENTRIC STRAIGHT INVERT
	AUTO FLOW BALANCING VALVE
	FLOOR DRAIN W/P-TRAP
	FLOOR CLEANOUT
	WALL CLEANOUT
	BACKFLOW PREVENTER
	LUBRICATED PLUG COCK
	HOSE BIBB W/VACUUM BREAKER
	CAPPED END
	SIDE WALL SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIAMESE FIRE DEPARTMENT CONNECTION
	ALARM CHECK VALVE
	DELUGE VALVE
	PIPE SWAY BRACING
	PIPE ANCHOR SUPPORT
	BALANCING VALVE

ABBREVIATIONS					
A	ABV	AIR	K	KW	KILOWATT
A	ACQU	AIR COOLED CONDENSING UNIT	L	LAB	LABORATORY
A	ACL	ACETYLENE GAS	L	LAT	LEAVING AIR TEMPERATURE
A	ACU	AIR CONDITIONING UNIT	LAV	LAV	LAVATORY
A	AD	ACCESS DOOR	LD	LD	LEADING DRY BULB
A	AF	AIR FILTER	LD	LD	LEADING WET BULB
A	AFH	ABOVE FINISHED FLOOR	LFB	LFB	LEADING FLOOR
A	AHJ	AIR FILTER, HIGH EFFICIENCY	LP	LP	LAMINAR FLOW DIFFUSER
A	APD	AIR HANDLING UNIT	LQ	LQ	LIQUID PROPANE
A	AR	AIR RESISTANT	LWS	LWS	LITERS PER SECOND
A	ASSY	ASSEMBLY	LWB	LWB	LEAVING WET BULB
A	AUX	AUXILIARY	LWT	LWT	LEAVING WATER TEMPERATURE
A	AV	AUTOMATIC AIR VENT	M	MAU	MAKE-UP AIR UNIT
B	BDD	BACKDRAFT DAMPER	M	MAX	MAXIMUM
B	BHP	BRAKE HORSE POWER	MB	MB	MIXING BOX/MOP BASIN
B	BP	BACKFLOW PREVENTER	MBH	MBH	THOUSAND BTU/H
B	BS	BIRD SCREEN	MD	MD	MOTORIZED DAMPER
C	C	CONDENSATE	MECH	MECH	MECHANICAL
C	CL	CENTER LINE	MM	MM	MILLIMETERS
C	CD	CEILING DIFFUSER	MS	MS	MOTOR STARTER
C	CFM	CUBIC FEET PER MINUTE	N	N	NITROGEN
C	CH	CHILLER	NC	NC	NORMALLY CLOSED
C	CHR	CHEMICAL DRAIN	NG	NG	NATURAL GAS
C	CHP	CHILLED WATER PUMP	NI	NI	NOT IN CONTRACT
C	CC	CLEANOUT	NO	NO	NUMBER
C	CCNC	CONCRETE CONNECTION	NOX	NOX	NITROGEN OXIDE
C	CONN	CONNECTION	NTS	NTS	NOT TO SCALE
C	CO	CONTINUED/CONTINUATION/CONTINUOUS	O	O	OXYGEN
C	COTG	CLEAN OUT TO GRADE	O	OA	OUTSIDE AIR
C	CV	CONDENSING UNIT/COPPER	OAL	OAL	OUTSIDE AIR LOUVER
C	CW	COLD WATER	OD	OD	OPPOSED BLADE DAMPER
D	D	DIRECT DIGITAL CONTROL	OC	OC	ON CENTER
D	DCC	DOOR GRILLE	OS	OS	OVERFLOW SCUPPER
D	DIA	DIAMETER	OSY	OSY	OUTSIDE SCREW & YOKE
D	DM	DIMENSION	P	P	PRESSURE DROP
D	DMP	DAMP	POC	POC	POINT OF CONNECTION
D	DN	DOWN	PR	PR	PRESSURE
D	DPS	DIFFERENTIAL PRESSURE SWITCH	PRG	PRG	PRESSURE REDUCING VALVE
D	DR	DRAIN	PSG	PSG	POUNDS PER SQUARE INCH
D	DS	DUCT SMOKE DETECTOR	PVC	PVC	POLYVINYL CHLORIDE
D	DW	DISTILLED WATER	R	RA	RETURN AIR
D	DWG	DRAWING	R	RAG	RETURN AIR GRILLE
E	EAT	ENTERING AIR TEMPERATURE	R	RAR	RETURN AIR REGISTER
E	ED	EQUIPMENT DRAIN	RC	RC	RAM CONDUCTOR
E	EDB	ENTERING DRY BULB	RD	RD	ROOF DRAIN
E	EER	ENERGY EFFICIENCY RATIO	REF	REF	REFERENCE
E	EF	EXHAUST FAN	RFN	RFN	RETURN FAN
E	EFF	EFFICIENCY	RL	RL	ROOM LEADER
E	EG	EXHAUST GRILLE	RM	RM	ROOM
E	ELEC	ELECTRICAL	RTN	RTN	RETURN
E	ENT	ENTERING	S	SA	SUPPLY AIR
E	ENT	ENTERING	S	SAG	SUPPLY AIR GRILLE
E	ER	EXHAUST REGISTER	SAN	SAN	SANITARY
E	EWB	ENTERING WET BULB	SAN	SAN	SUPPLY AIR REGISTER
E	EWC	ELECTRIC WATER COOLER	SD	SD	SMOKE DAMPER
E	EWT	ENTERING WATER TEMPERATURE	SDF	SDF	SMOKE DAMPER/FIRE DAMP.
E	EXH	EXHAUST	SD	SD	SUPPLY FAN
E	EWS	EYE WASH/SHOWER STATION	SH	SH	SHEET
F	FD	FLOOR CLEANOUT	SP	SP	STATIC PRESSURE
F	FD	FIRE DAMPER/FLOOR DRAIN	SQ FT	SQ FT	SQUARE FEET
F	FH	FUME HOOD	SSU	SSU	STAINLESS STEEL
F	FL	FLOOR	T	T	TERMINAL CONTROL UNIT
F	FLEX	FLEXIBLE	TEMP	TEMP	TEMPERATURE
F	FOR	FUEL OIL RETURN	TRP	TRP	TRANSFER GRILLE
F	FOS	FUEL OIL SUPPLY	TG	TG	TRAP PRIMER
F	FP	FIRE PUMP	TYP	TYP	TYPICAL
F	FPI	FINS PER INCH	U	UC	UNDERCUT
F	FFM	FEET PER MINUTE	V	V	VENT
F	FT	FEET	V	VAV	VARIABLE AIR VOLUME
F	FV	FACE VELOCITY	VD	VD	VOLUME DAMPER
G	GA	GAUGE	VEL	VEL	VELOCITY
G	GV	GRAVITY INTAKE VENTILATOR	VERT	VERT	VERTICAL
G	GND	GROUND	VFD	VFD	VARIABLE FREQUENCY DRIVE
G	GPM	GALLONS PER MINUTE	VSD	VSD	VARIABLE SPEED DRIVE
G	GRV	GRAVITY RELIEF VENTILATOR	VTR	VTR	VENT THRU ROOF
H	HB	HOSE BIBB	W	W	WITH
H	HORIZ	HORIZONTAL	WO	WO	WITHOUT
H	HP	HEATING	WCO	WCO	WALL CLEANOUT
H	HTG	HEATING	WC	WC	WATER COLUMN
H	HUMID	HUMIDISTAT	WH	WH	WALL HYDRANT
H	HWS	HOT WATER SUPPLY	WHA	WHA	WATER HAMMER ARRESTORS
H	HWB	HOT WATER BOILER	WR	WR	WATER RISER
H	HWP	HOT WATER PUMP	WTR	WTR	WATER
H	HWR	HOT WATER RETURN			
I	ID	INSIDE DIAMETER			
I	IN	INCHES			
I	INV EL	INVERT ELEVATION			

DOMESTIC WATER GENERAL NOTES

- CUTOFF VALVES AND STOPS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS AND AT FIXTURE CONNECTIONS.
- REPRESENT ALL WATER SYSTEM IN PRESENCE OF OWNERS' TESTS. AND VENTS SHALL BE TESTED WITH 10' HEAD OF WATER FOR 9 HOURS WITH LEVEL OF WATER REMAIN UNCHANGED.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
- INSTALL ALL WATER PIPING SYSTEMS SO THAT THEY WILL NOT BE SUBJECT TO ANY UNLIE STRAINS OR STRESSES. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR CEILING ASSEMBLY SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATINGS WITH U.L. LISTED ASSEMBLIES, MATERIALS AND SEALANTS.
- GROUND PIPING SHALL BE INSTALLED NO LESS THAN 6" BELOW FROST LINE. REFER TO STRUCTURAL DETAILS FOR FOUNDATION PENETRATION.
- DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO BE SCALED FOR DIMENSIONS.
- COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR, WITHOUT EXTRA COST FOR THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WATER FLOW AND PRESSURE TEST FOR EVALUATING INCOMING DOMESTIC AND FIRE PROTECTION SERVICE PRESSURES.
- WHERE STREET WATER MAIN PRESSURES FLUCTUATE, THE BUILDING WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED FOR MINIMUM PRESSURE AVAILABLE. WHEREVER DIFFERENTIAL PRESSURE REDUCING VALVE IS REQUIRED TO SUPERVISE THE CONDUCT OF THE CONSTRUCTION SOURCE OF SUPPLY IS LESS THAN 60 PSI, A WATER PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED ON THE BUILDING WATER SUPPLY SYSTEM. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1005 SHALL BE INSTALLED TO REDUCE THE PRESSURES TO BELOW 80 PSI.

SANITARY SEWER GENERAL NOTES

- PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 50 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL, GREATER THAN 45°. AT THE BASE OF EACH WASTE OR VENT STACK 5 FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR FLOORS.
- THE FLOOR DRAIN IN TOILETS AND LOCKERS AREAS SHALL BE PROVIDED WITH BACKWATER VALVES.
- MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 24" ABOVE EACH OUTSIDE AIR INTAKE.
- VTR'S ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR.
- ALL



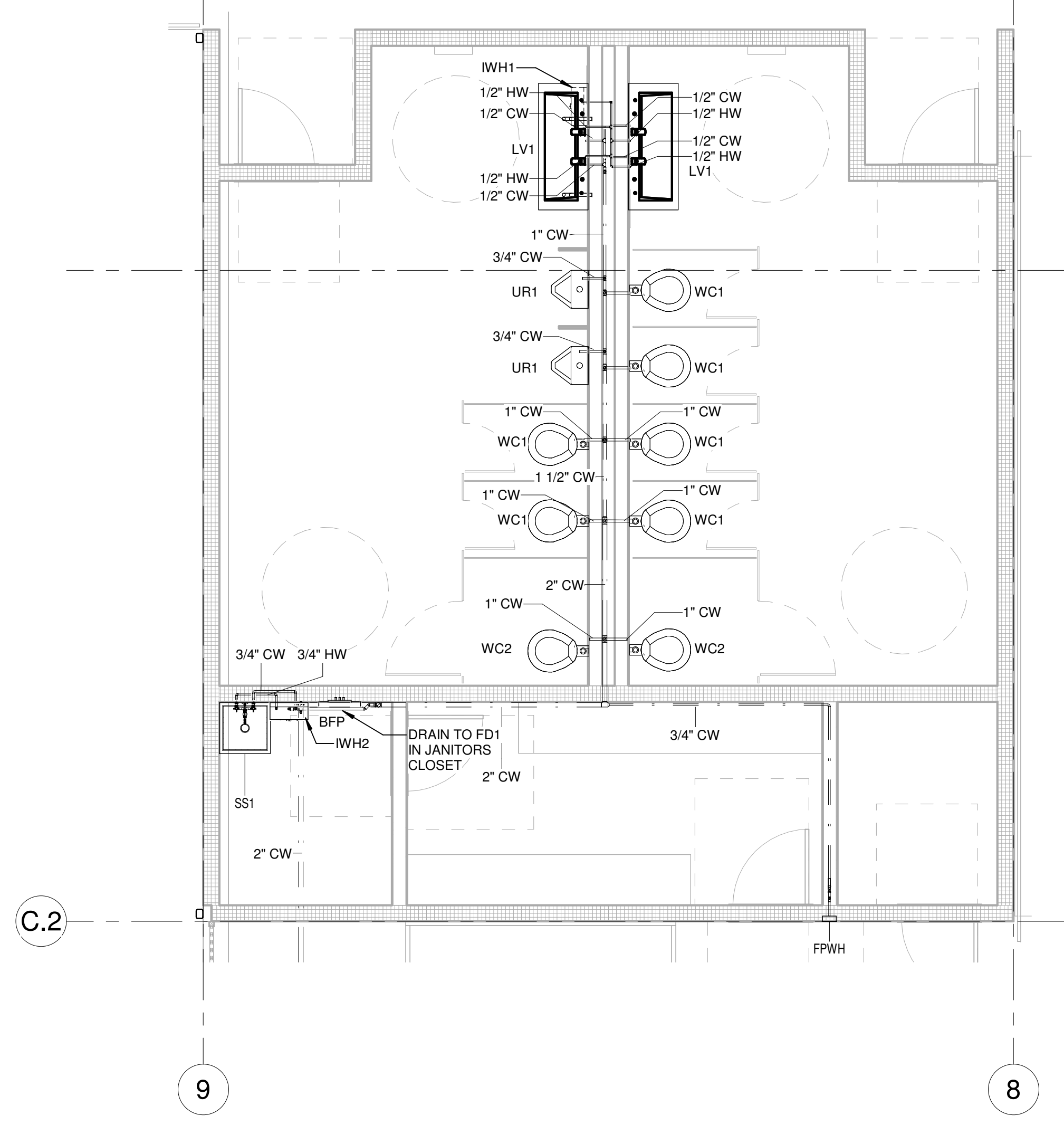
20210121.35.05 CN SHS PHASE 2

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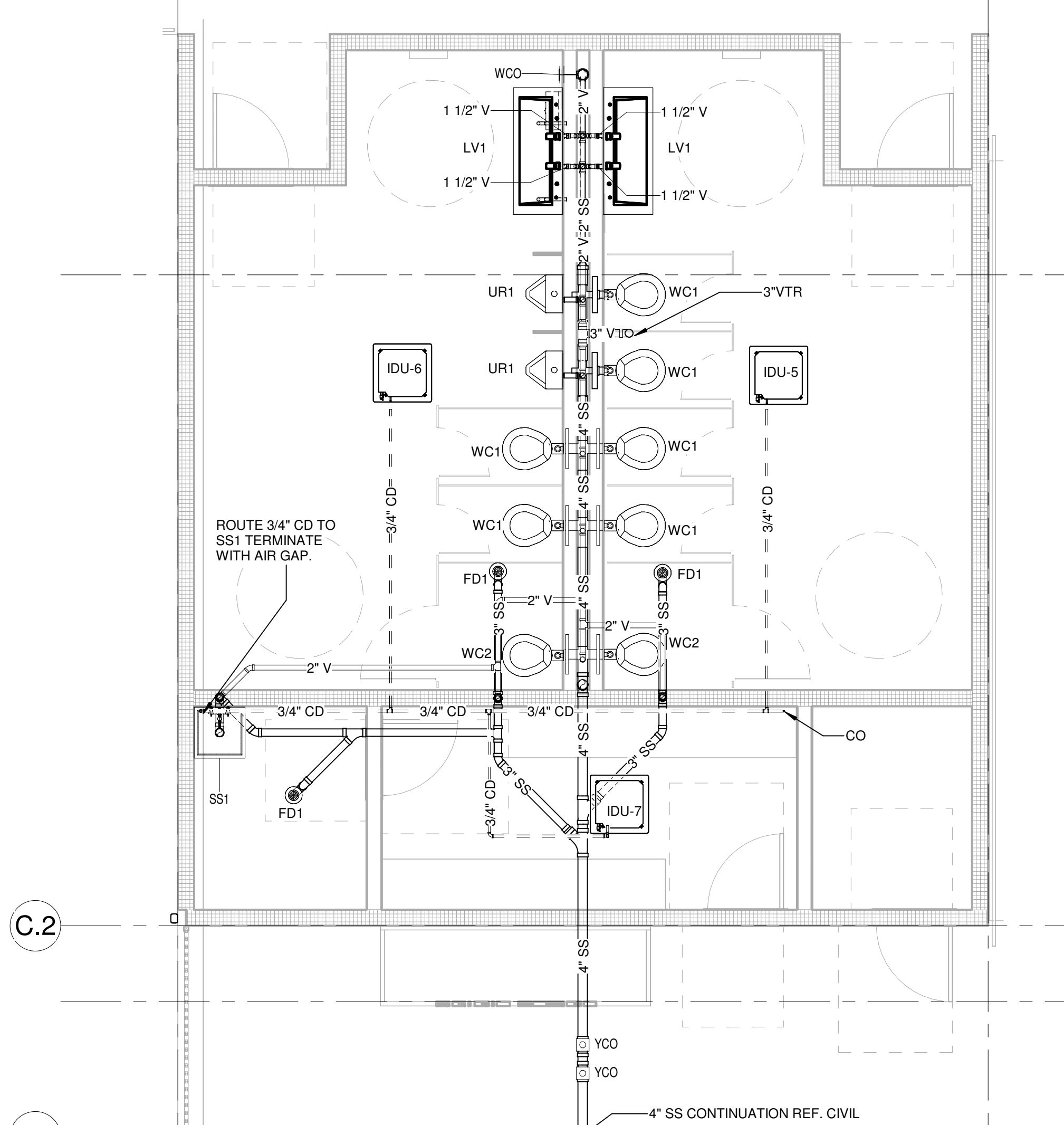
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ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NUMBER:
FIRST FLOOR PLUMBING PLAN
SHEET NUMBER:
P101
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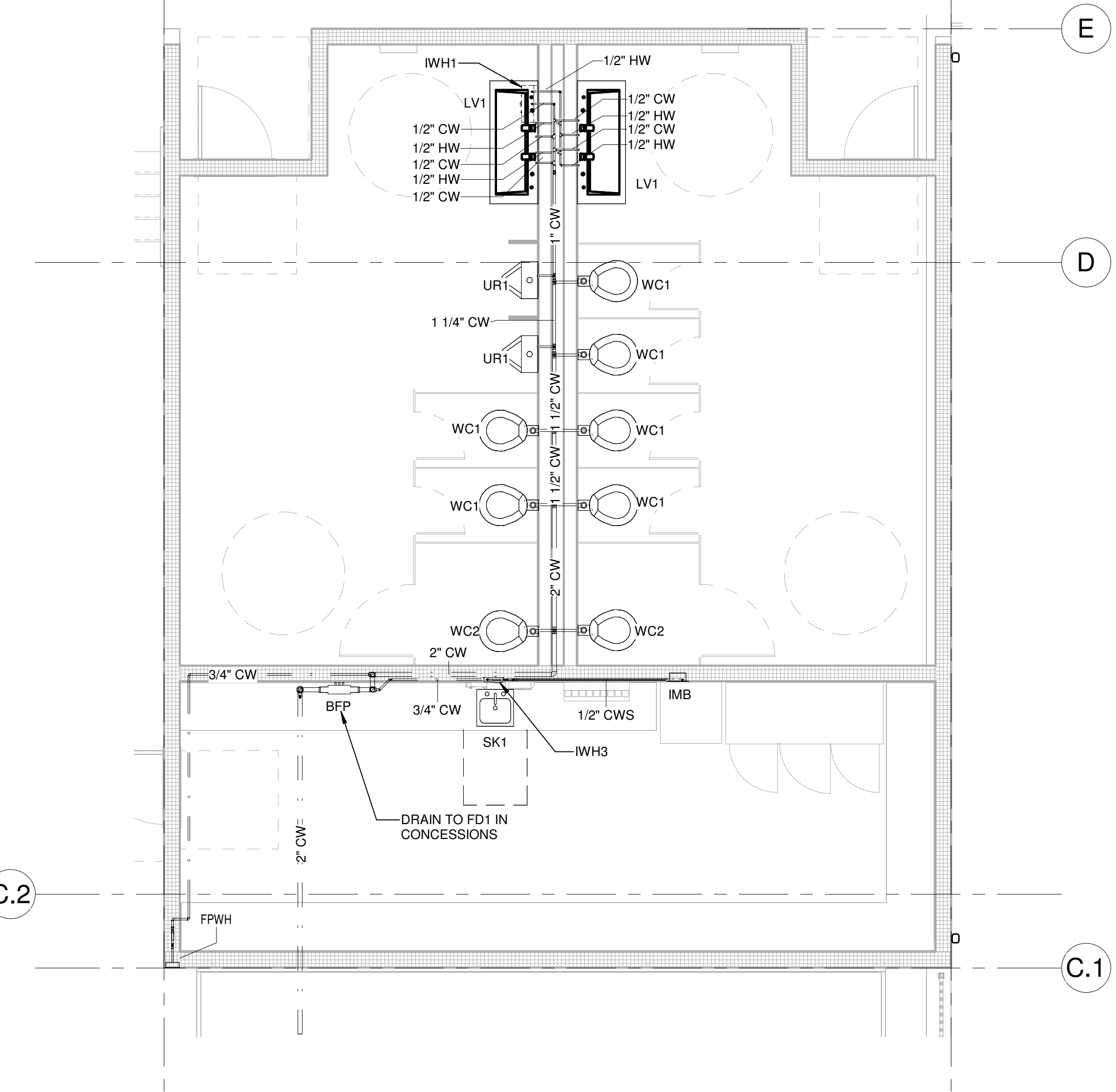
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FIRST FLOOR PLUMBING PLAN



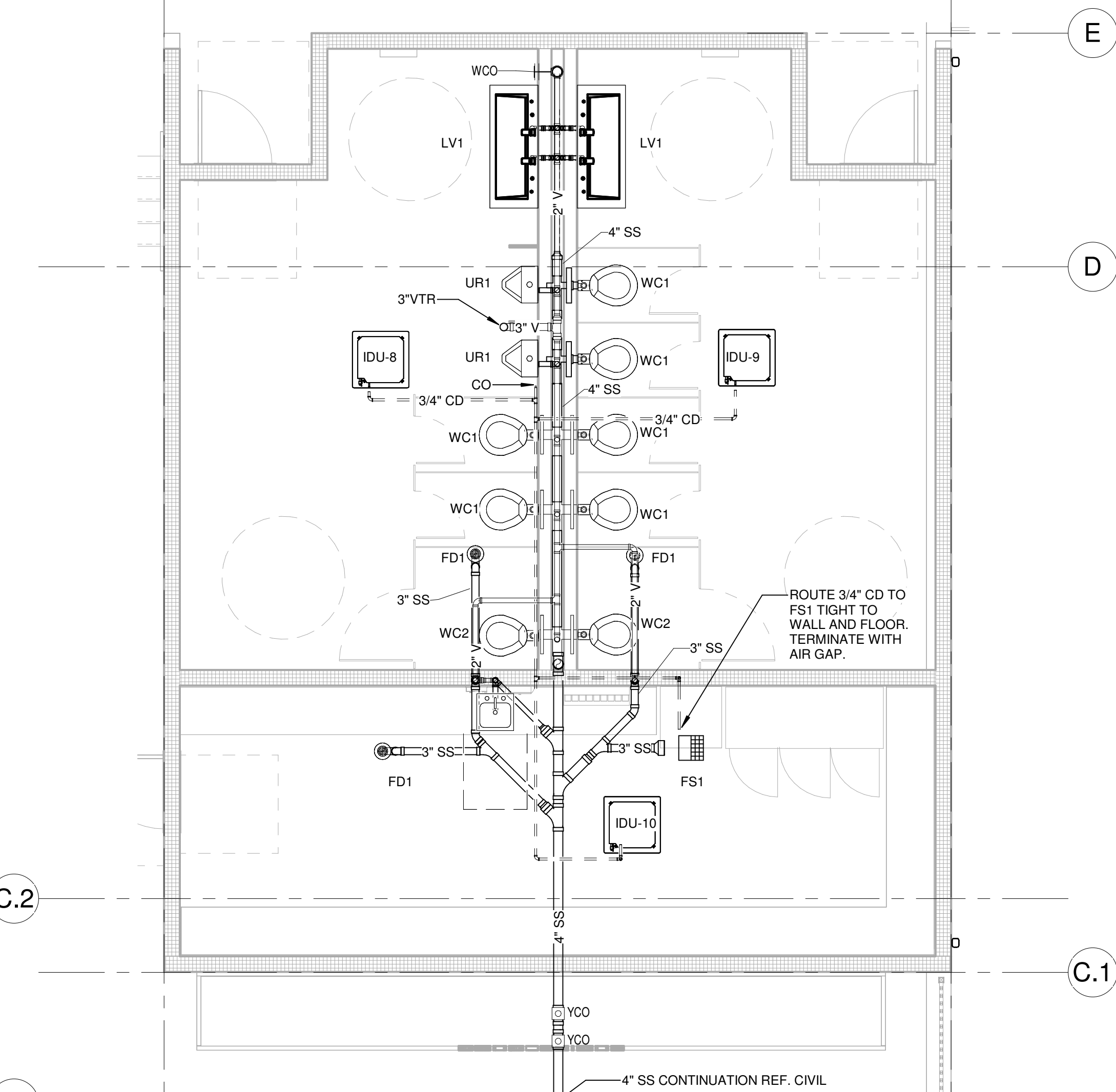
1 SPIRIT STORE DOMESTIC PLAN
1/4" = 1'-0"



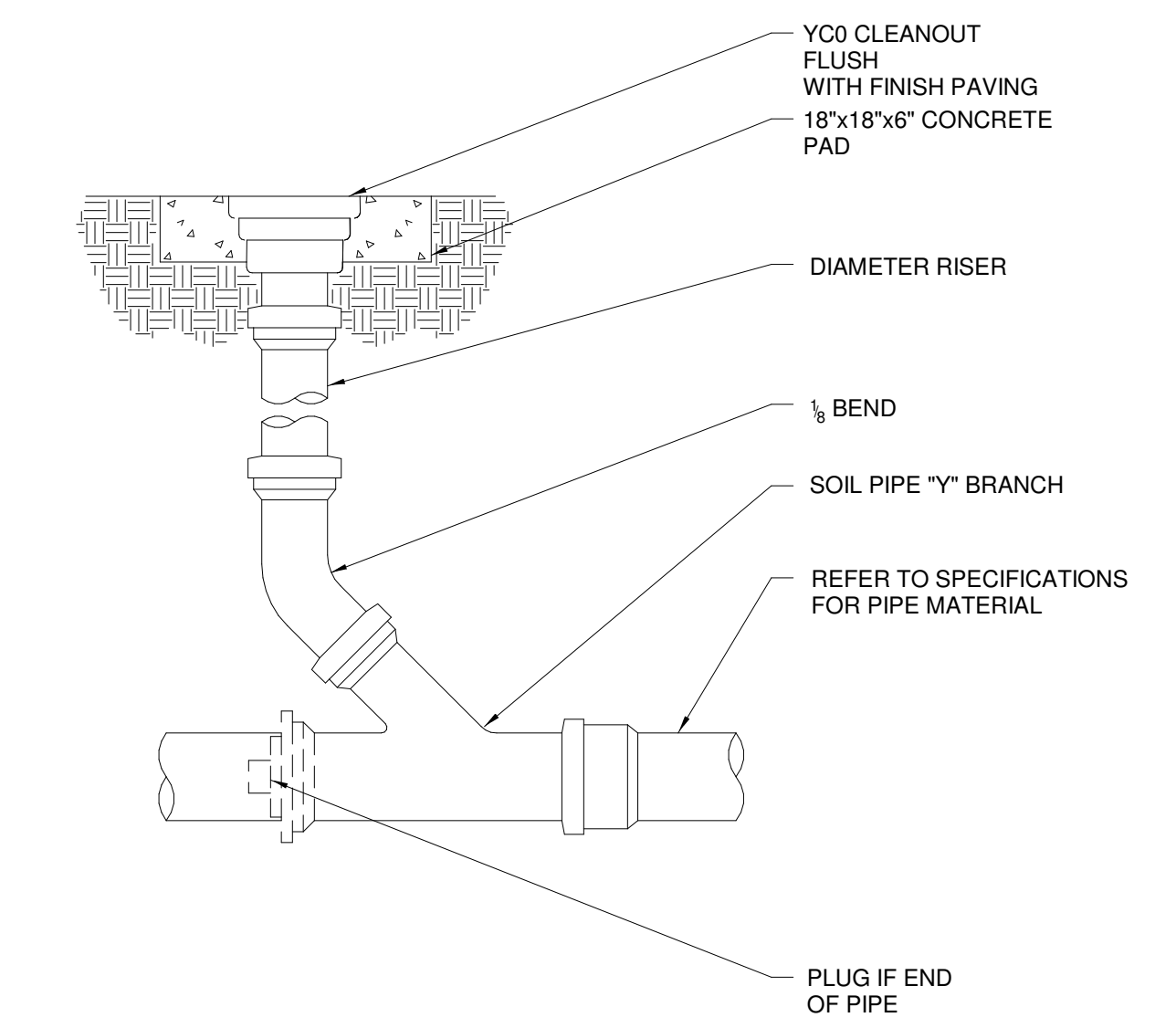
3 SPIRIT STORE DWV PLAN
1/4" = 1'-0"



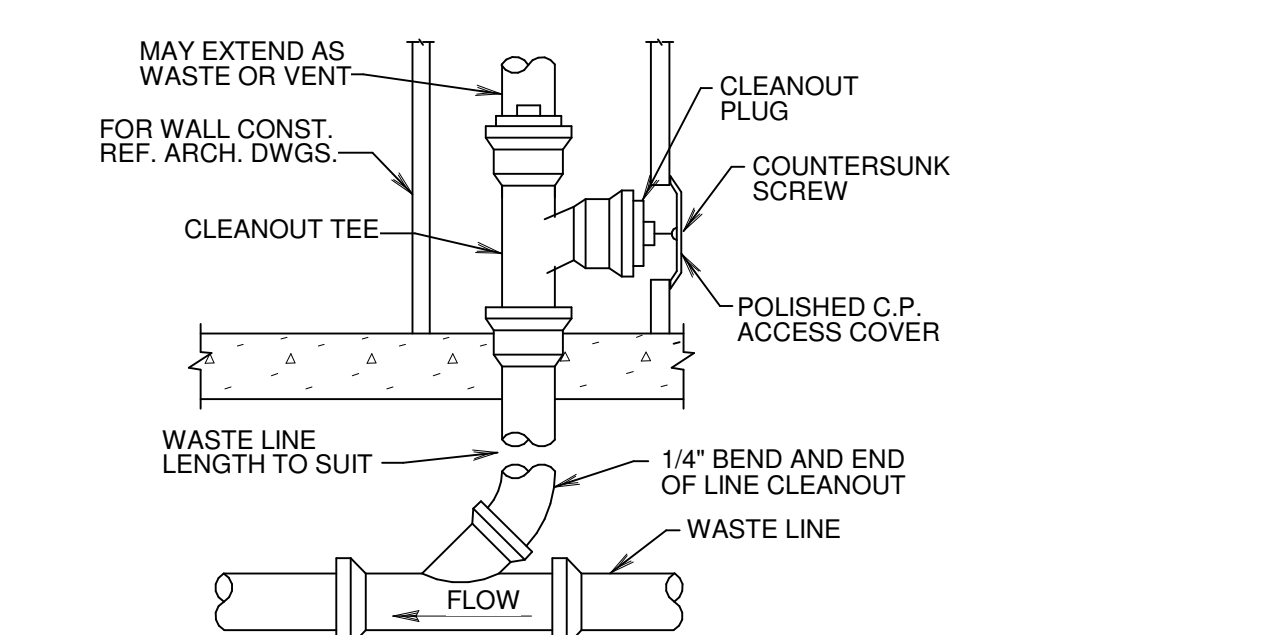
2 CONCESSIONS DOMESTIC PLAN
1/4" = 1'-0"



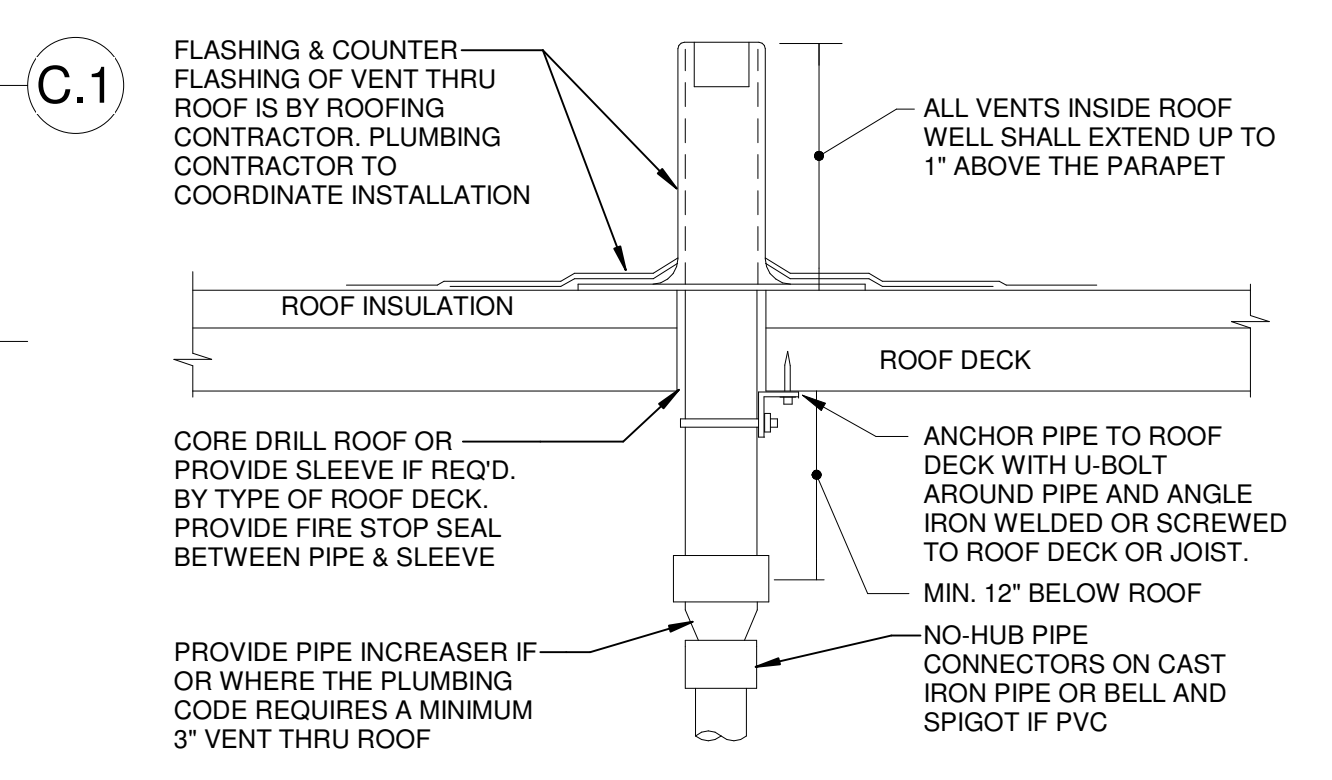
4 CONCESSIONS DWV PLAN
1/4" = 1'-0"



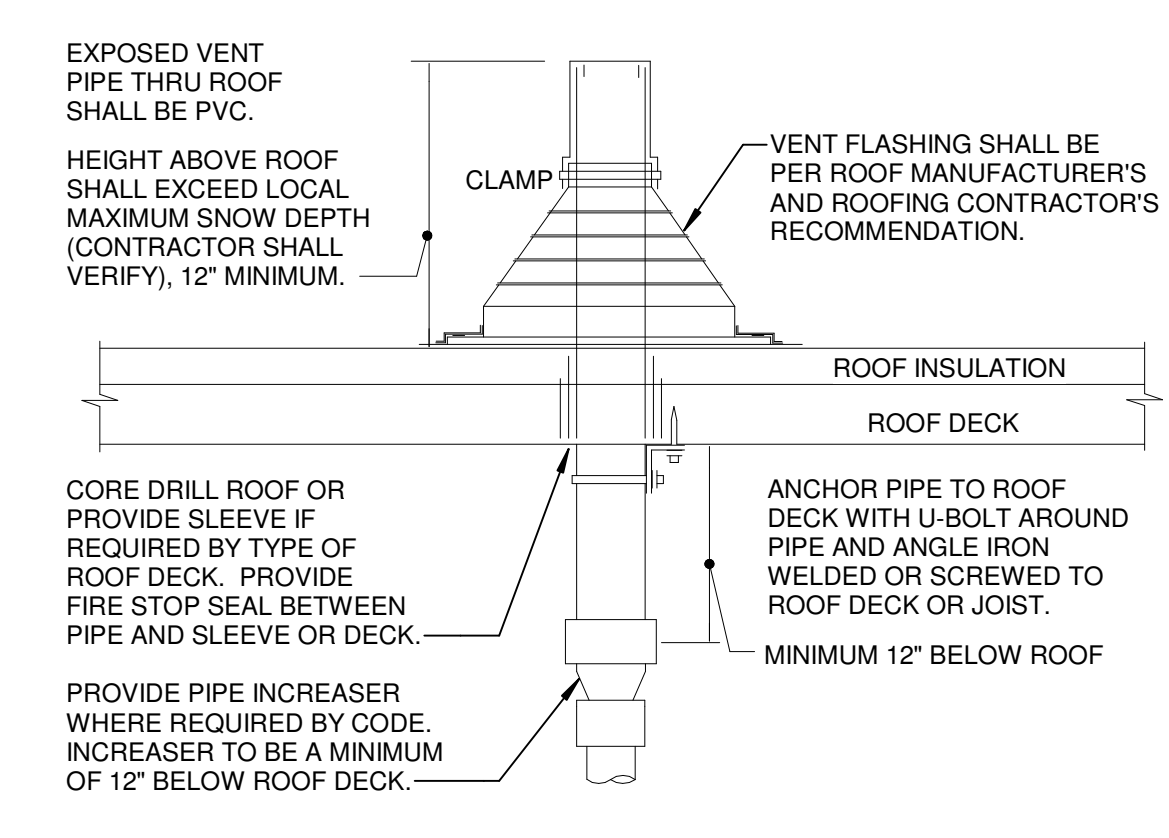
7 YARD CLEANOUT NTS



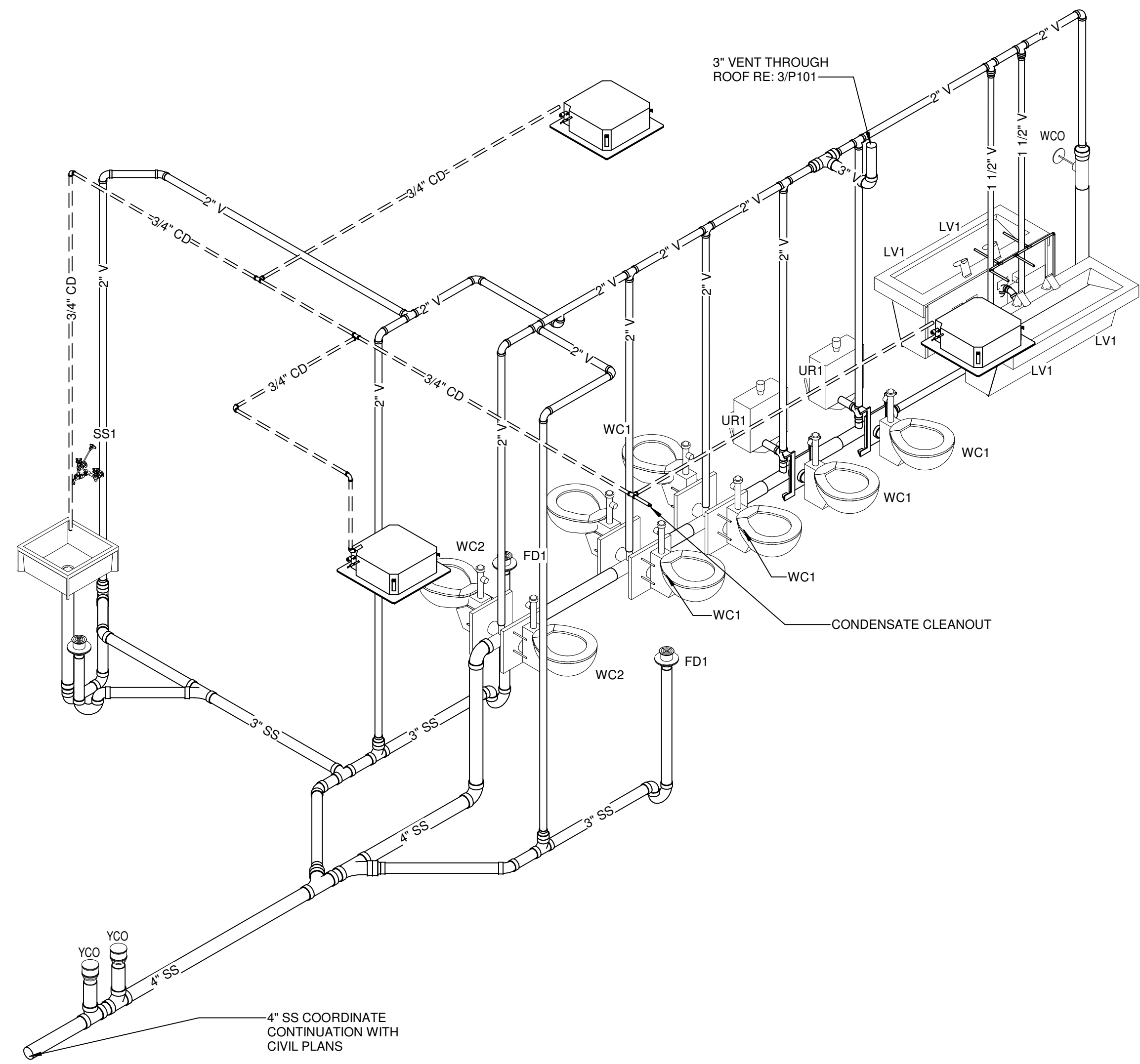
6 TYPICAL WALL CLEANOUT DETAIL
NO SCALE



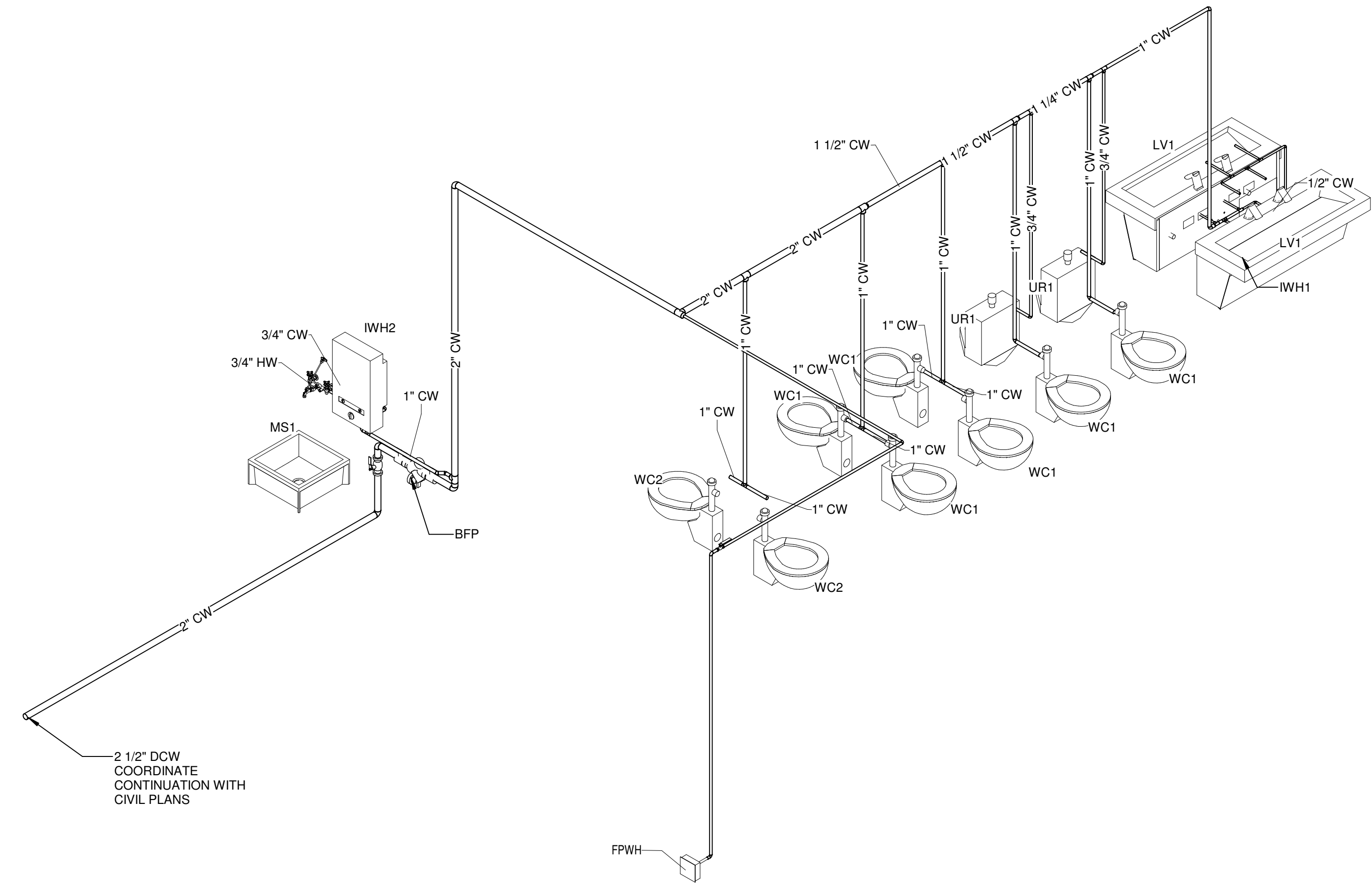
5 VENT THROUGH ROOF NTS



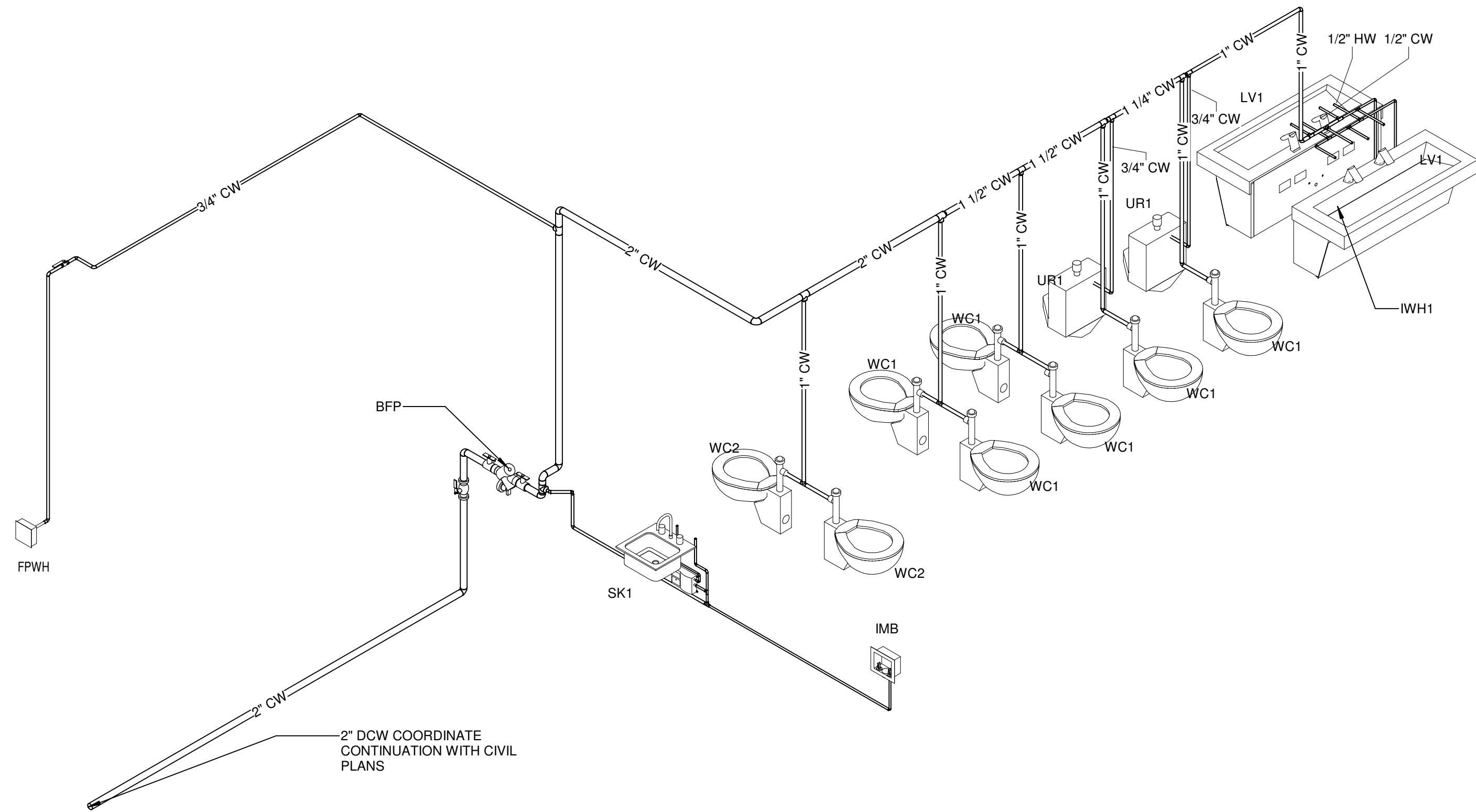
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.



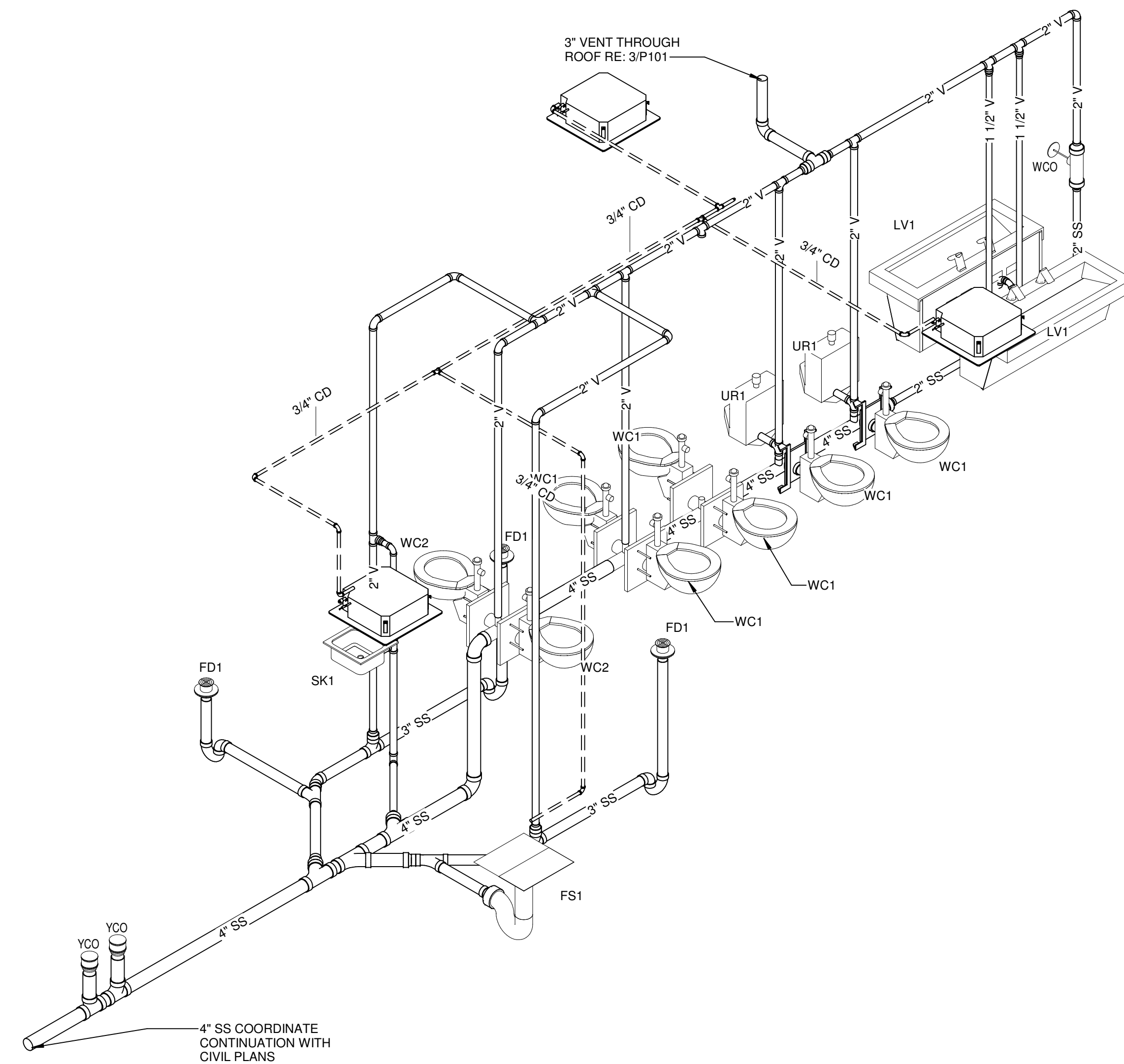
1 SPIRIT STORE SANITARY ISOMETRIC



2 SPIRIT STORE DOMESTIC WATER ISOMETRIC



3 CONCESSIONS DOMESTIC WATER ISOMETRIC



4 CONCESSIONS SANITARY ISOMETRIC



blue river
ARCHITECTS
A Native American Owned Firm



20210121.35.05 CN SHS PHASE 2

ADDRESS HERE
P201
PLUMBING ISOMETRICS



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BLUE RIVER PROJECT NUMBER:
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12/22/2023

ISSUE:
CONSTRUCTION DOCUMENTS

OTHER ISSUE DATES:

NO.	DESCRIPTION	DATE

SHEET NAME:
PLUMBING ISOMETRICS

SHEET NUMBER:
P201

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ELECTRICAL LEGEND			
(NOT ALL SYMBOLS MAY BE USED FOR CURRENT PROJECT)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	JUNCTION BOX		3-WAY SWITCH
	PHOTO CELL		DIMMER SWITCH
	THERMOSTAT		LIGHT FIXTURE IDENTIFICATION REFER TO SPECIFICATIONS
	RECEPTACLE, 120V SINGLE		LIGHT FIXTURE IDENTIFICATION REFER TO SPECIFICATIONS
	RECEPTACLE, 120V DUPLEX		FLUORESCENT LIGHT 2x4'
	RECEPTACLE, 120V DUPLEX ISOLATED GROUND		UNSWITCHED FLUORESCENT 2x4'
	RECEPTACLE, 120V DUPLEX GFI (GROUND FAULT INTERRUPTER)		INCANDESCENT LIGHT
	RECEPTACLE, 120V DUPLEX CEILING MOUNTED		WALL MOUNTED LIGHT FIXTURE
	SPECIAL RECEPTACLE		CEILING FAN
	RECEPTACLE, 120V QUAD		EMERGENCY LIGHT (BATTERY PACK)
	RECEPTACLE, 120V QUAD ISOLATED GROUND		EXIT LIGHT
	RECEPTACLE, 120V QUAD GFI (GROUND FAULT INTERRUPTER)		TELEPHONE-4"x4" BOX WITH 1/2" CONDUIT STUBBED ABOVE CEILING
	RECEPTACLE, 120V QUAD FLOOR MOUNTED		DATA OUTLET-4"x4" BOX WITH 1/2" CONDUIT STUBBED ABOVE CEILING
	DROP CORD-SPECIAL		LOW VOLTAGE CABLE FOR OTHER - 4"x4" BOX WITH 1/2" CONDUIT STUBBED ABOVE CEILING
	PANEL, SURFACE MOUNTED		TELEPHONE-4"x4" BOX IN THE FLOOR WITH 1/2" CONDUIT ROUTED TO WALL AND UP ABOVE CEILING.
	DISCONNECT SWITCH, NON-FUSED		VOICE/DATA OUTLET-4"x4" BOX IN THE FLOOR WITH 1/2" CONDUIT ROUTED TO WALL AND UP ABOVE CEILING.
	DISCONNECT SWITCH, FUSED		DATA OUTLET-4"x4" BOX IN THE FLOOR WITH 1/2" CONDUIT ROUTED TO WALL AND UP ABOVE CEILING.
	COMBINATION STARTER WITH FUSED DISCONNECT SWITCH		TELEVISION WALL OUTLET-4"x4" BOX WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
	ELEVATOR POWER MODULE		FIRE ALARM CONTROL PANEL
	MOTOR		FIRE ALARM ANNUNCIATOR PANEL
	MOTOR WITH MANUAL STARTER		MAGNETIC DOOR HOLDER
	TRANSFORMER		FLOW SWITCH
	NETWORK DROP FOR CAMERA		TAMPER SWITCH
	NETWORK DROP FOR EXTERIOR CAMERA (WEATHER PROOF), PROVIDE POWER FOR INTERNAL HEATER.		FIRE ALARM MANUAL PULL
	DUAL TECHNOLOGY MOTION DETECTOR MOUNTED AT 7'-6" AFF.		FIRE ALARM STROBE
	GLASS BREAKAGE DETECTION DEVICE MOUNTED ON CEILING		FIRE ALARM HORN
	3/4" DOOR CONTACT RECESSED IN DOOR FRAME		FIRE ALARM HORN/STROBE
	KEY PAD MOUNTED 5'-0" AFF.		FIRE ALARM BELL OR BUZZER
	OVERHEAD DOOR CONTROLLER		CEILING MOUNTED HEAT DETECTOR
	PUSH-BUTTON		SMOKE DETECTOR
	AVAILABLE FAULT CURRENT		DUCT MOUNTED SMOKE DETECTOR PROVIDED WITH MECHANICAL EQUIPMENT
	SLAVE CLOCK - PROVIDE SAME MANUFACTURER AND TYPE AS EXISTING IN MAIN BUILDING.		CIRCUIT, CONCEALED IN WALLS OR CEILING
	SINGLE SWITCH		CIRCUIT, CONCEALED UNDERGROUND OR IN UNDER SLAB FLOOR
	SWITCH OCCUPANCY SENSOR CEILING MOUNTED EQUAL TO WATTSTOPPER DT-355		CIRCUIT, EXPOSED

ALL CIRCUITS SHALL BE 3#12 AWG IN 1/2" VC UNLESS OTHERWISE INDICATED AS ABOVE.

ABBREVIATIONS:

AC --- ABOVE COUNTERTOP	WR --- WEATHER RESISTANT RECEPTACLE
AFF --- ABOVE FINISHED FLOOR	WP --- WEATHER PROOF COVER PLATE
AFG --- ABOVE FINISHED GRADE	NL --- NIGHT LIGHT
WP --- WEATHER PROOF	N --- NEW
EF --- EXHAUST FAN	E --- EXISTING
G --- GROUND	R --- RELOCATED
IG --- ISOLATED GROUND	TB --- TELEPHONE TERMINAL BACKBOARD
UH --- UNIT HEATER	USB --- RECEPTACLE WITH USB CHARGERS
WH --- WATER HEATER	LV --- LOW VOLTAGE
GFCI --- GROUND FAULT CIRCUIT INTERRUPTER	
AFCI --- ARC FAULT CIRCUIT INTERRUPTER	

GENERAL NOTES	
1.	ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
2.	THE ELECTRICAL CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID IN ORDER TO VERIFY THE EXTENT OF THE CONSTRUCTION WORK AND THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. SUBMITTAL OF BID SHALL BE CONSIDERED PROOF THAT THE CONTRACTOR HAS VISITED THE JOB SITE AND IS FAMILIAR WITH THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
3.	PROTECT ALL ADJACENT SURFACES DURING CONSTRUCTION. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4.	CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT.
5.	PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS: A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING. B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL. C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
6.	PROVIDE EXPANSION JOINTS IN ALL LOCATIONS WHERE BUILDING EXPANSION JOINTS ARE LOCATED. PROVIDE A IN-GROUND PULL BOX EVERY 200' FOR ALL UNDERGROUND CONDUIT RUNS.
7.	PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN ALL CONDUITS AND CABLES. PROVIDE ISOLATED GROUND CONDUCTORS IN CONDUITS AND CABLES AS INDICATED ON CONTRACT DOCUMENTS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 800 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
8.	WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY. REFERENCE TYPICAL MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHTS/COORDINATE MOUNTING HEIGHTS IN AND AROUND MILL WORK WITH ARCHITECT.
9.	WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
10.	CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE TYPE WRITTEN PANELBOARD IDENTIFICATION SCHEDULES.
11.	BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
12.	WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DE-RATE CURRENT CARRYING CONDUCTORS PER NEC.
13.	PROVIDE APPROPRIATE HANDLE TIES FOR TWO SINGLE POLE BRANCH CIRCUIT BREAKERS AS REQUIRED WHEN UTILIZING MULTI-WIRE BRANCH CIRCUITS PER NEC ARTICLE 210.4 PART (B).
14.	CONDUITS EXTENDING BEYOND EXTERIOR WALL: STUB OUT 2'-0" BELOW GRADE TO 5'-0" BEYOND EXTERIOR WALLS UNLESS NOTED OTHERWISE. COORDINATE LOCATION AND PROVIDE CONNECTION TO SITE CONDUITS. ALL SITE CONDUITS ARE PROVIDED BY SITE ELECTRICAL CONTRACTOR.
15.	ONLY FEEDER CIRCUITS SPECIFICALLY NOTED AS UNDERGROUND ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD. ALL SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" UNDER FINISHED GRADE. MAINTAIN A MINIMUM OF 3" SEPARATION BETWEEN ALL UNDERGROUND CONDUITS. PROVIDE A RIGID CONDUIT ON ALL 90° BENDS AND RIGID CONDUITS WHERE CONDUITS PENETRATE THE SLAB.
16.	ENSURE ALL PANELBOARDS HAVE REQUIRED VOLTAGE WARNING LABELS AND ARC FLASH WARNING LABELS.
17.	HOME RUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. COMBINE HOME RUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.
18.	CONTRACTOR TO INSTALL WALL BOXES AND EMT CONDUIT INTO ATTIC SPACE WITH PULL CORD FOR DATA/PHONE WIRING.
19.	NO EXPOSED CONDUIT SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM ARCHITECT/ENGINEER.

TYPICAL MOUNTING HEIGHTS	
ALL HEIGHTS ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE. DEVICES ABOVE A COUNTERTOP SHALL BE MOUNTED 4" ABOVE THE BACKSPLASH TO THE CENTERLINE.	
RECEPTACLES	+18"
TELEPHONE JACKS	+18"
DATA JACKS	+18"
TELEVISION JACK	+18"
SWITCHES	+48"
DIMMERS	+48"
TIME SWITCHES	+44"
FA MANUAL PULL	+48"

GENERAL LIGHTING NOTES	
1.	EXIT LIGHTS SHALL NOT BE SWITCHED. EMERGENCY LIGHTS SHALL BE WIRED WITH A SEPARATE UN-SWITCHED CIRCUIT SERVING ROOM AND WIRED TO OPERATE LIGHT FIXTURE UPON LOSS OF POWER, UNLESS OTHERWISE NOTED.
2.	PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.
3.	PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPSUM PER ARCHITECTURAL CEILING PLAN.
4.	COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.
5.	THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.
6.	EXIT SIGN MOUNTING A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING. B. CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
7.	EMERGENCY LIGHT INSTALLATION FIXTURE MOUNTING A. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS WHERE WALLS EXCEED 11'-0" HIGH, UNLESS NOTED OTHERWISE. B. CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
ELECTRICAL CONNECTION	
8.	REFER TO MANUFACTURER'S WRITTEN INSTRUCTION. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
9.	REFER TO LIGHT FIXTURE SCHEDULE FOR ALL LIGHT FIXTURES THAT ARE IC RATED. ALL RECESSED FIXTURES SHALL ADHERE TO ARTICLE 410.116 OF THE NATIONAL ELECTRICAL CODE (NEC).
10.	LIGHT FIXTURE SUPPORTS AND RESTRAINTS TO COMPLY WITH SEISMIC ZONE REQUIREMENTS.
11.	PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES AND LIGHT CONTROLLERS TO OWNER.
12.	EMERGENCY LIGHTING SHALL BE WIRED TO CLOSEST LIGHTING CIRCUIT.

LOW-VOLTAGE SYSTEM NOTES:	NOTES:
1. ALL COMMUNICATION AND TELEVISION SYSTEMS SHALL BE PROPERLY GROUNDED FOR ADEQUATE LIGHTNING PROTECTION.	1. NOT ALL SYMBOLS MAY APPLY TO ALL SHEETS.
2. COMMUNICATION AND TELEVISION SYSTEMS SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (N.E.C.) ARTICLES 800 AND 810 FOR INSTALLATION AND WIRING REQUIREMENTS.	2. ALL WIRE SHALL BE COPPER (MIN. #12 AWG) UNLESS OTHERWISE NOTED.
3. ALL COMMUNICATIONS AND TELEVISION WIRING IS TO BE RUN BY OTHERS.	3. FEEDERS SHALL CONFORM TO N.E.C. 215.2 BRANCH CIRCUIT WIRING AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO N.E.C. 210.18(A).
4. ALL DATA DROPS SHALL BE EMPTY CONDUIT SYSTEMS WITH A 1" CONDUIT TO ATTIC SPACE WITH A 4" SQUARE BOX AND PLASTER RING. PROVIDE A PULL STRING INSIDE ALL EMPTY CONDUITS WITH 10'-0" EXTRA AT BOTH BOX AND CEILING. ALL UNDERGROUND DATA OUTLETS SHALL BE RUN TO NEAREST WALL AND THEN TO ATTIC SPACE.	4. ALL SUPPORTS FOR EQUIPMENT AND DEVICES SHALL CONFORM SEISMIC ZONE REQUIREMENTS AND LOCAL AUTHORITY HAVING JURISDICTION. LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH N.E.C. ARTICLE 300 SPECIFICALLY PARAGRAPH 300.11(A).
CONTRACTOR NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, OWNER OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIAL REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATOR AND CODE REQUIREMENT REVIEW BEEN MADE, WILL NOT BE ALLOWED. CONTRACTOR SHALL PROVIDE ALL PERMIT AND INSPECTION FEES IN BASE BID.	5. MISCELLANEOUS EQUIPMENT WHERE OUTLETS ARE INDICATED FOR MISCELLANEOUS EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL, PROVIDE WIRE, CONDUIT, ETC., AND MAKE ALL CONNECTIONS TO SAME, UNLESS OTHERWISE INDICATED.
	6. PROVIDE ALL POWER CIRCUITS, WIRING, CONDUIT, OUTLETS, DISCONNECT SWITCHES, ETC., AND PROVIDE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT.
	7. PROVIDE A GROUNDING CONDUCTOR IN ALL CONDUITS FOR ALL EQUIPMENT IN ACCORDANCE WITH N.E.C. ARTICLE 250. VERIFY EXACT CONNECTIONS REQUIRED FOR ALL EQUIPMENT.
	8. THE USE OF EXTENSION CORDS OR POWER STRIPS AS PERMANENT WIRING TO EQUIPMENT, LIGHTING, FANS, ETC. IS PROHIBITED. ALL ELECTRICAL WIRING SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE.

ARC FLASH INFORMATION	
CATEGORY	USE THIS INFORMATION IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS, NFPA 70E, AND OTHER REQUIRED SAFE ELECTRICAL WORK PRACTICES
1	18 INCHES FLASH PROTECTION BOUNDARY 1.2 CAL/CM ² MAX INCIDENT ENERGY AT 18" WORKING DISTANCE 1 PPE CATEGORY (PER NFPA 70E-2009) 480 VAC SHOCK HAZARD WHEN COVER IS OPEN 42 INCHES LIMITED APPROACH 12 INCHES RESTRICTED APPROACH 1 INCH PROHIBITED APPROACH) PER NFPA 70E LATEST EDITION
	ORDER #XXXXXX DATE: XXXXXX
VALUES PRODUCED BY AN ENGINEERING ANALYSIS. ANY SYSTEM MODIFICATION, ADJUSTMENT OR PROTECTIVE DEVICE SETTINGS, OR FAILURE TO PROPERLY MAINTAIN EQUIPMENT WILL INVALIDATE THIS LABEL.	

- NOTES:
- AT APPROXIMATELY 8 WEEKS PRIOR TO POSSESSION DATE, CONTRACTOR SHALL OBTAIN AN ENGINEER QUALIFIED TO PERFORM ARC FAULT STUDIES AND PROVIDE HIM WITH AS-BUILT FEEDER INFORMATION (CONDUCTOR MATERIAL, LENGTH, CONDUCTORS PER PHASE, SIZE, INSULATION TYPE, AND CONDUIT TYPE ALONG WITH CIRCUIT BREAKER TYPE AND SIZE AND ANY OTHER INFORMATION REQUESTED BY THE ENGINEER) IN ORDER TO COMPLETE AN ARC FLASH HAZARD STUDY. PROVIDE INFORMATION TO ENGINEER BY 7 WEEKS PRIOR TO POSSESSION DATE.
 - ARC FLASH INCIDENT ENERGY WARNING LABELS SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO POSSESSION.



20210121-35.05 CN SHS PHASE 2

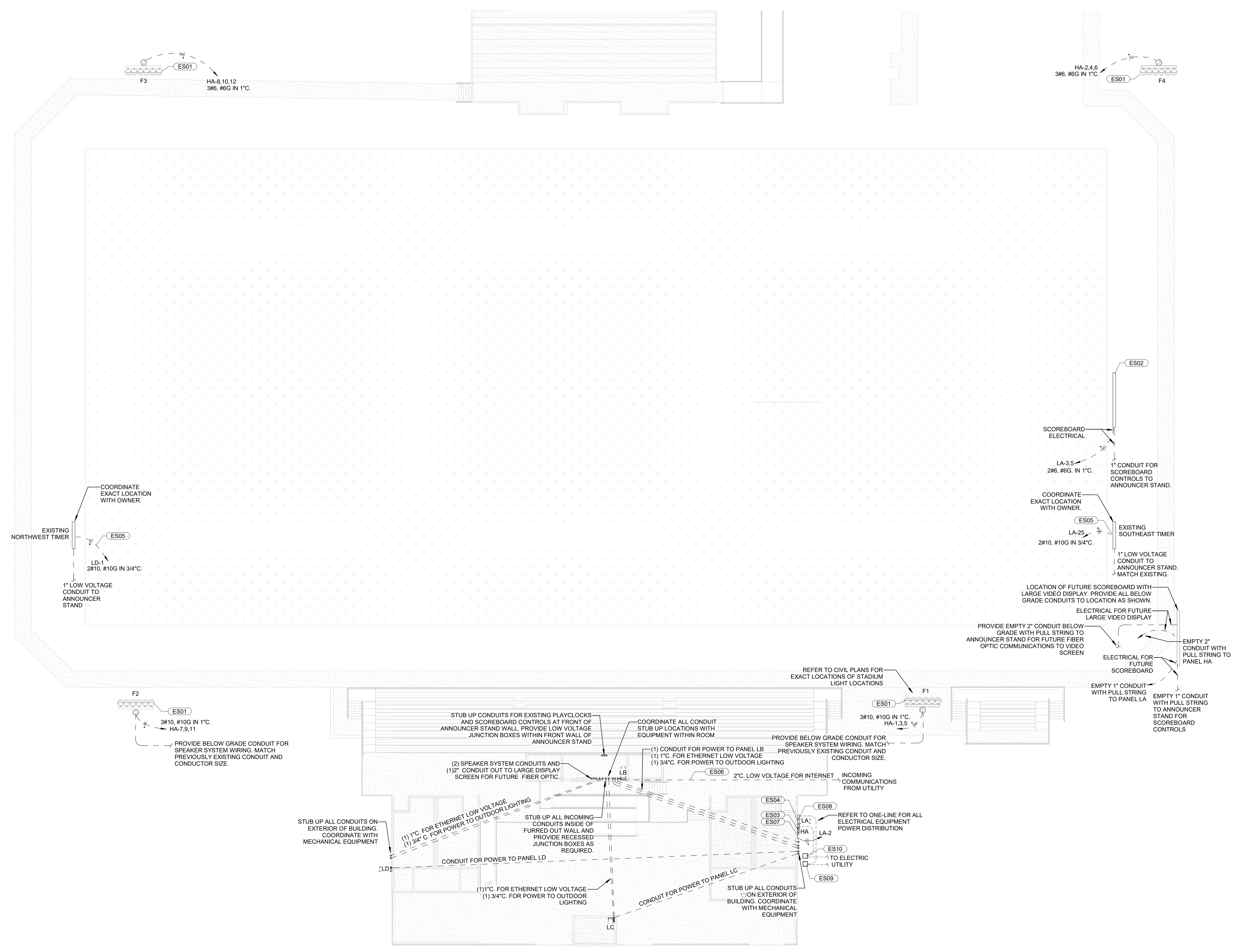
ADDRESS HERE
E001
ELECTRICAL LEGENDS AND GENERAL NOTES



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20210121-35.05
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12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
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SHEET NAME:
ELECTRICAL LEGENDS AND GENERAL NOTES
SHEET NUMBER:
E001
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ELECTRICAL KEYNOTES	
ES01	PROVIDE NEW BELOW GRADE CONDUIT AND POWER TO EXISTING STADIUM LIGHTS FROM NEW 480V 3 PHASE PANELBOARD HA.
ES02	EXISTING SCOREBOARD TO REMAIN IN SERVICE. ROUTE NEW CONDUITS FOR POWER AND LOW VOLTAGE TO ANNOUNCER STAND.
ES03	PROVIDE NEW 480V SERVICE PANEL HA FOR STADIUM LIGHTS AND RELOCATE STADIUM LIGHTS CONTACTOR PANEL. REFER TO PANEL SCHEDULES FOR PANEL HA AND ONE-LINE DIAGRAM FOR WIRE SIZING. COORDINATE WITH UTILITY AS NEEDED.
ES04	PROVIDE 240V, 1 PHASE SERVICE ENTRANCE RATED PANEL LA, AND MOUNT UTILITY METER. REFER TO PANEL SCHEDULES FOR PANEL LA AND ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZING. COORDINATE WITH UTILITY AS NEEDED.
ES05	TIMER CLOCK TO REMAIN IN SERVICE. PROVIDE NEW BELOW GRADE CONDUITS FOR POWER AND LOW VOLTAGE TO ANNOUNCER STAND.
ES06	PROVIDE BELOW GRADE 2" CONDUIT FOR LOW VOLTAGE COMMUNICATIONS FROM SERVICE PROVIDER. COORDINATE WITH SERVICE PROVIDER AS REQUIRED.
ES07	RELOCATE STADIUM LIGHTS CONTROLS PANEL. PROVIDE 120V POWER FROM PANEL LA.
ES08	LOCATE ALL SERVICE ELECTRICAL PANELS ON EXTERIOR WALL OF CONCESSIONS BUILDING.
ES09	UTILITY TRANSFORMER 120/240V, 1 PHASE, 3 WIRE. PROVIDE BELOW GRADE SECONDARY CONDUITS FROM UTILITY TRANSFORMER TO SERVICE PANEL LA. COORDINATE WITH UTILITY FOR EXACT LOCATION OF TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZING.
ES10	UTILITY TRANSFORMER 277/480V, 3 PHASE, 4 WIRE. PROVIDE BELOW GRADE SECONDARY CONDUITS FROM UTILITY TRANSFORMER TO SERVICE PANEL HA. COORDINATE WITH UTILITY FOR EXACT LOCATION OF TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZING.



20210121.35.05 CN SHS PHASE 2

ADDRESS HERE
E002
SITE PLAN



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SHEET NAME:
SITE PLAN

SHEET NUMBER:
E002

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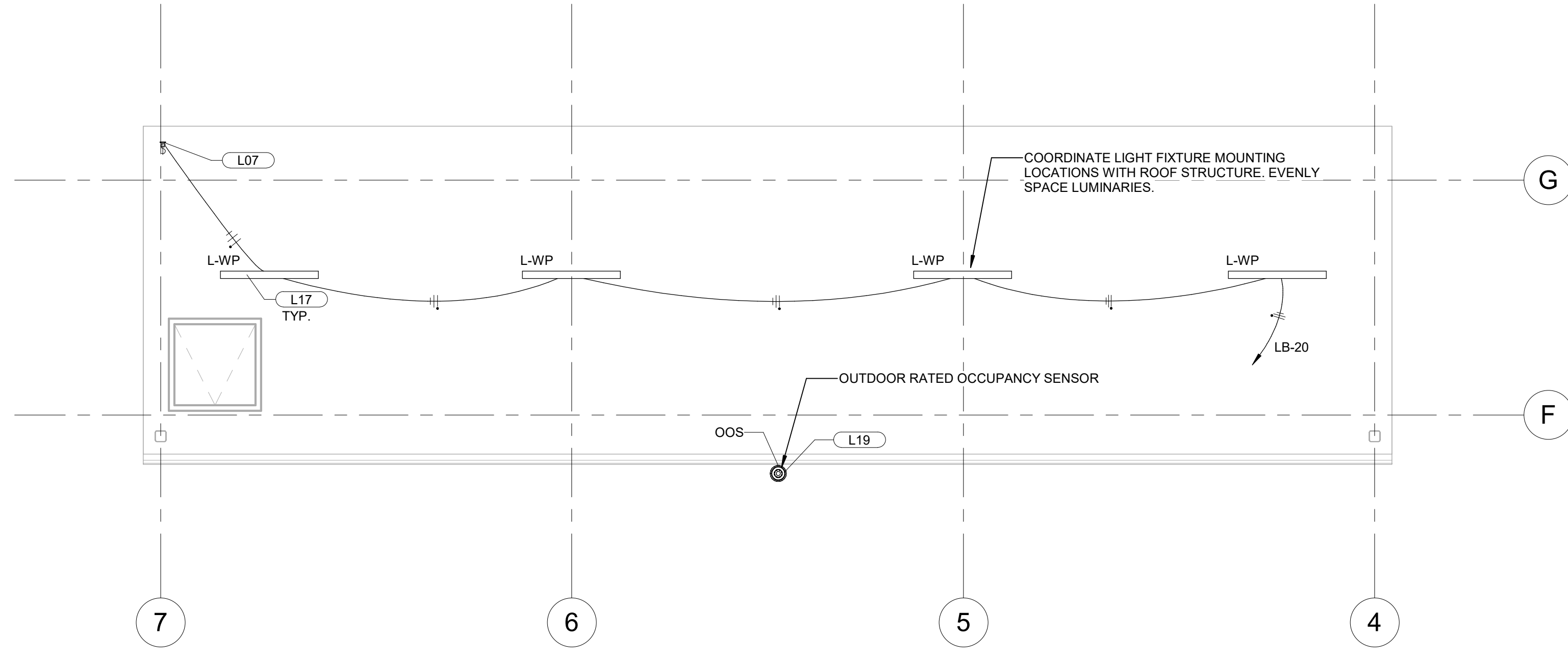
1 SITE PLAN
1/16" = 1'-0"

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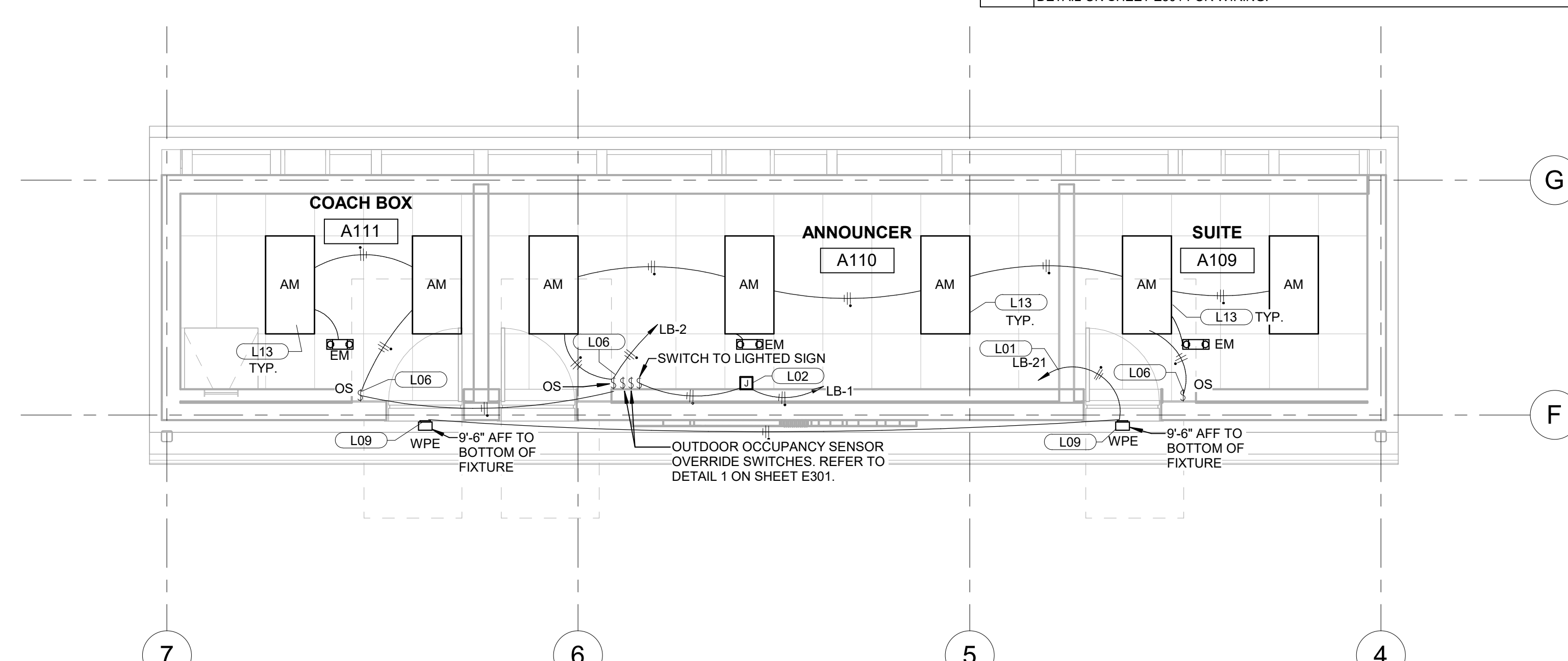
Lighting Fixture Schedule										
Type	MANUFACTURER	CATALOG NUMBER	VOLTAGE	Apparent Load	Lamp	LUMENS	TEMP	MOUNTING	FIXTURE DESCRIPTION	
AH	COOPER LIGHTING	24CZSCT3-UNV	120V	47 VA	LED	6341	4000K	RECESSED	2x4 FT TROFFER LIGHT, SELECTABLE LUMENS AND TEMP	
AM	COOPER LIGHTING	24CZSCT3-UNV	120V	36 VA	LED	5073	4000K	RECESSED	2x4 FT TROFFER LIGHT, SELECTABLE LUMENS AND TEMP	
BE	COOPER LIGHTING	HC6-10-D010 HM6-0525-840 61-MD-H, EBPLED14W	120V	10 VA	LED	1000	4000K	RECESSED	6" DOWNLIGHT, WET, POLISHED METAL FINISH TRIM, REMOTE BATTERY IN ACCESSIBLE CONDITIONED SPACE	
CL	LUMENWERX	VIAWETAYS-D-PYC-HLO-SW-80CRI-500LMF-40 K-4-UNV-D1-1C TF-AL	120V	20 VA	LED	500/FT	4000K	SURFACE	LINEAR, WET LOCATION RATED, ALUMINUM FINISH, CONDUIT FEED THROUGH BACK	
EM	COOPER LIGHTING	SEL25	120V	1 VA	LED	N/A	N/A	CEILING	EMERGENCY LIGHTING FIXTURE	
L-WP	COOPER LIGHTING	4VRVT3-LD5-4-G-UNV L840-WL-SSL	120V	31 VA	LED	4000	4000K	SURFACE	LINEAR WEATHERPROOF, SS LATCHES	
LR	COOPER LIGHTING	S124DR-S-350D-8-40-1-U-DD-F-W	120V	27 VA	LED	350/FT	4000K	RECESSED	LINEAR, RECESSED, WHITE FINISH	
LS	COOPER LIGHTING	4SNX-SL3-LW-UNV-CC83-L840-CD1-U	120V	51 VA	LED	6100	4000K	SUSPENDED	LINEAR, SUSPENDED AT 8'-0" AFF, UTILITY LIGHT	
OOS	LEVITON	HBE11-IUB, HBLNH-360, OSF0L-00W	120V	0 VA	LED	N/A	N/A	SURFACE	OUTDOOR HIGH BAY 360 DEGREE LENS OCCUPANCY SENSER WITH OFFSET ADAPTER	
WPE	COOPER LIGHTING	IST-SA1-D-740-U-T4W-CBP	120V	50 VA	LED	5665	4000K	SURFACE	WALL PAK AREA LIGHT WITH COLD WEATHER RATED BATTERY. COORDINATE FIXTURE FINISH COLOR AND SHAPE WITH OWNER.	

NOTE: ELECTRICAL CONTRACTOR TO PROVIDE ALL SUPPORTS AND ACCESSORIES FOR MOUNTING LOCATIONS OF LIGHT FIXTURES.

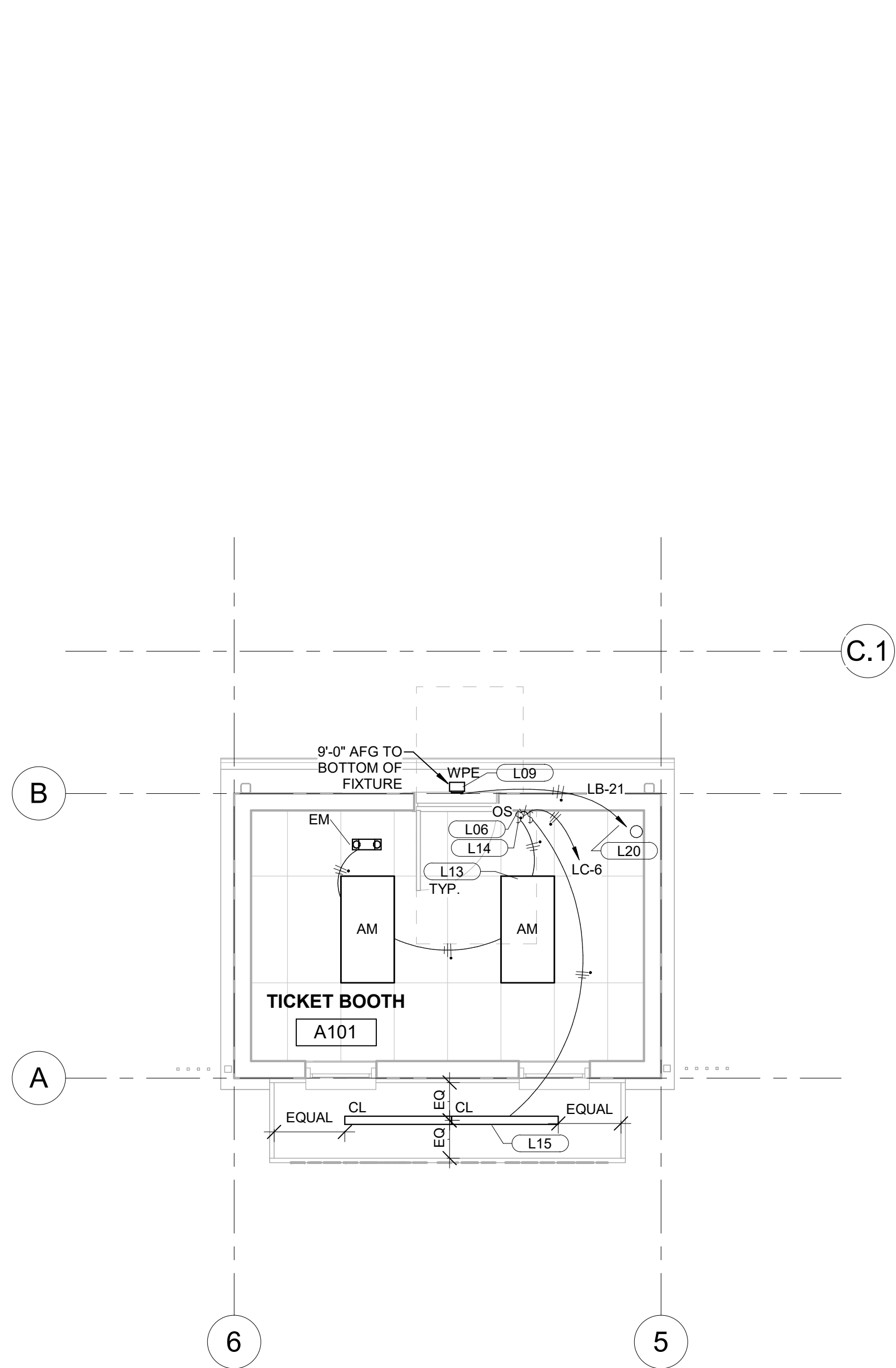
ELECTRICAL KEYNOTES	
L01	OUTDOOR LIGHTING POWERED FROM PANELBOARD LB IN ANNOUNCER STAND THROUGH OCCUPANCY SENSOR AND SWITCHES. REFER TO OUTDOOR OCCUPANCY SENSOR DETAIL 1 ON SHEET E301 FOR WIRING.
L02	PROVIDE JUNCTION BOX AND POWER ABOVE CEILING FOR LIGHTED EXTERIOR SIGN. REFER TO MANUFACTURER SPECIFICATIONS FOR EXACT POWER REQUIREMENTS AND JUNCTION BOX LOCATION.
L06	PROVIDE LIGHT SWITCH WITH OCCUPANCY SENSOR. SET OCCUPANCY SENSOR TO TURN OFF LIGHTS AFTER 30 MINUTE DELAY.
L07	PROVIDE NEMA 3R JUNCTION BOX WITH WEATHERPROOF LIGHT SWITCH AND COVER MOUNTED ON COLUMN.
L09	PROVIDE LIGHT FIXTURE ABOVE DOOR OR ENTRYWAY AT HEIGHT NOTED ON DRAWING.
L10	PROVIDE LIGHT FIXTURE AT 2'-0" FROM TOP OF FIXTURE TO BOTTOM OF ROOF.
L11	PROVIDE LIGHT FIXTURE AS SCHEDULED. SET LUMEN OUTPUT TO HIGH LEVEL FOR ALL FIXTURES WITHIN ROOM.
L13	PROVIDE LIGHT FIXTURE AS SCHEDULED. SET LUMEN OUTPUT TO MEDIUM LEVEL FOR ALL FIXTURES WITHIN ROOM.
L14	PROVIDE A LIGHT SWITCH FOR INDOOR LIGHTS AND A LIGHT SWITCH FOR OUTDOOR CANOPY MOUNTED LIGHT FIXTURES.
L15	SURFACE MOUNT OUTDOOR WET RATED LINEAR FIXTURE TO UNDERSIDE OF CANOPY AS DIMENSIONED. ROUTE ALL CONDUITS THROUGH BACKSIDE OF FIXTURES. CONCEAL AND HIDE ALL CONDUITS AND JUNCTION BOXES FROM VIEW.
L17	PROVIDE LIGHT FIXTURES AS SCHEDULED AND DIMENSIONED.
L18	PROVIDE LIGHT SWITCH WITH OCCUPANCY SENSOR. SET OCCUPANCY SENSOR TO TURN OFF LIGHTS AFTER 30 MINUTE DELAY. INTERLOCK RESTROOM EXHAUST FAN TO RUN WHEN LIGHTS ARE ON.
L19	PROVIDE LEVITON OUTDOOR RATED OCCUPANCY SENSOR WITH OFFSET ADAPTER AS SCHEDULED. MOUNT SENSOR AND JUNCTION BOX BELOW ROOF AND EXTEND SENSOR OUT OVER BUILDING WITH OFFSET ADAPTER. ROTATE SENSOR TO ALLOW FOR MAXIMUM OCCUPANCY SENSING DISTANCE OUT INTO OPEN COURT AREA. TURN DIP SWITCH 5 (FULL OFF TIMER DELAY) TO "ON" POSITION FOR SENSOR TO TURN OFF OUTDOOR LIGHTS AFTER 60 MINUTES OF INACTIVITY. SET DIP SWITCH FOR DAYLIGHT SENSOR DOWNWARD AND SET DIP SWITCHES FOR DAYLIGHT SENSOR TO TURN LIGHTS ON AT A MINIMUM 5 FOOTCANDLE VALUE. COORDINATE WITH OWNER IF OTHER FOOTCANDLE VALUE PREFERRED. DIMMING FUNCTIONALITY AND WIRING IS NOT REQUIRED. ROUTE HOT OUTPUT SWITCHED WIRE FROM OCCUPANCY SENSOR TO ALL OUTDOOR LIGHTS THROUGH BELOW GRADE CONDUITS TO EACH BUILDING. REFER TO OCCUPANCY SENSOR DETAIL ON SHEET E301 FOR LIGHT SWITCH OVERRIDE OF OCCUPANCY SENSOR AND FULL CIRCUIT POWER OFF LIGHT SWITCH.
L20	OUTDOOR LIGHTING POWERED FROM PANELBOARD LB IN ANNOUNCER STAND THROUGH OCCUPANCY SENSOR AND SWITCHES. ROUTE CIRCUIT THROUGH BELOW GRADE CONDUIT TO ANNOUNCER STAND. REFER TO SITE PLAN FOR CONDUIT ROUTING AND OCCUPANCY SENSOR DETAIL ON SHEET E301 FOR WIRING.



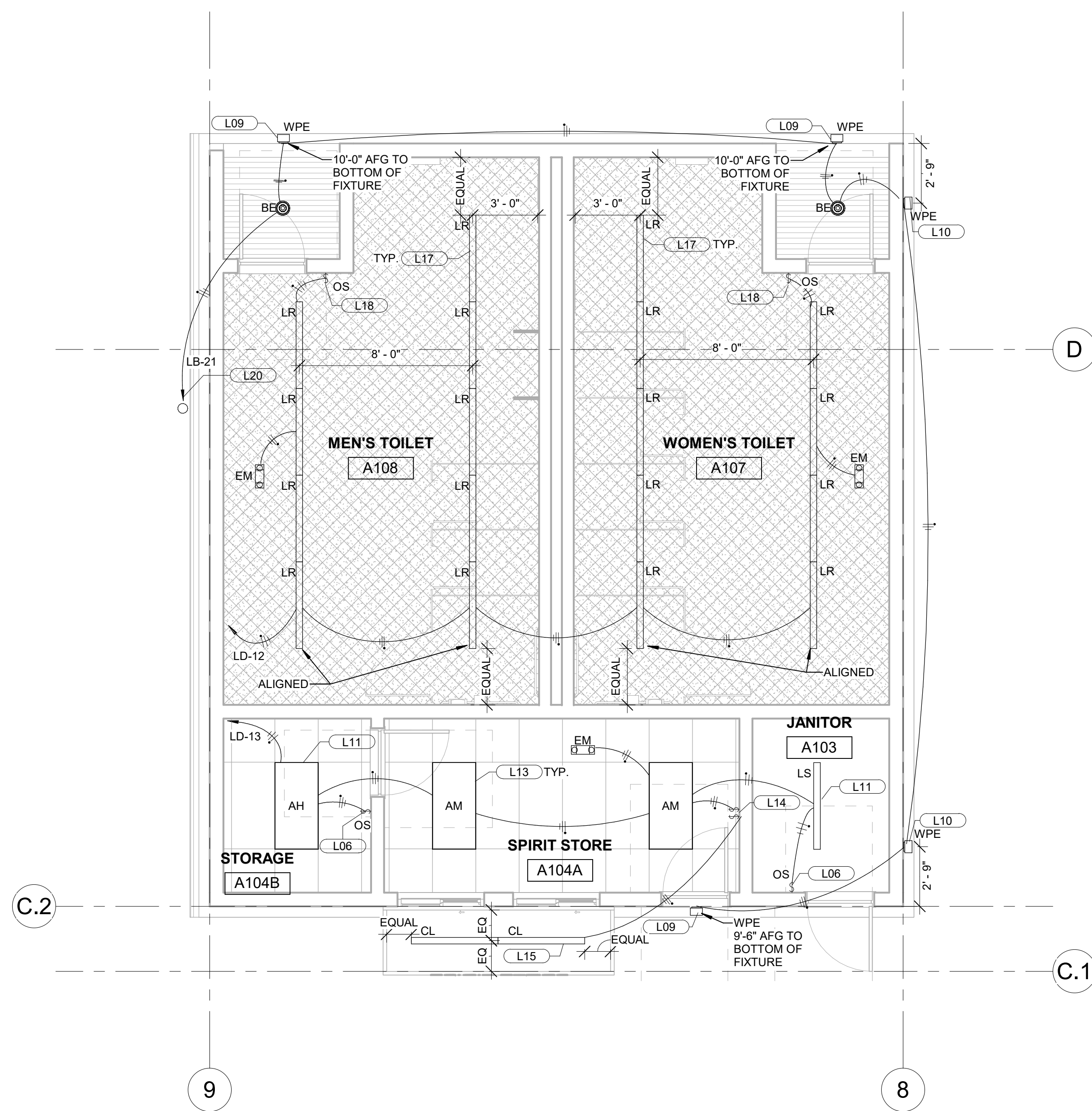
3 TOP OF PRESSBOX LIGHTING
1/4" = 1'-0"



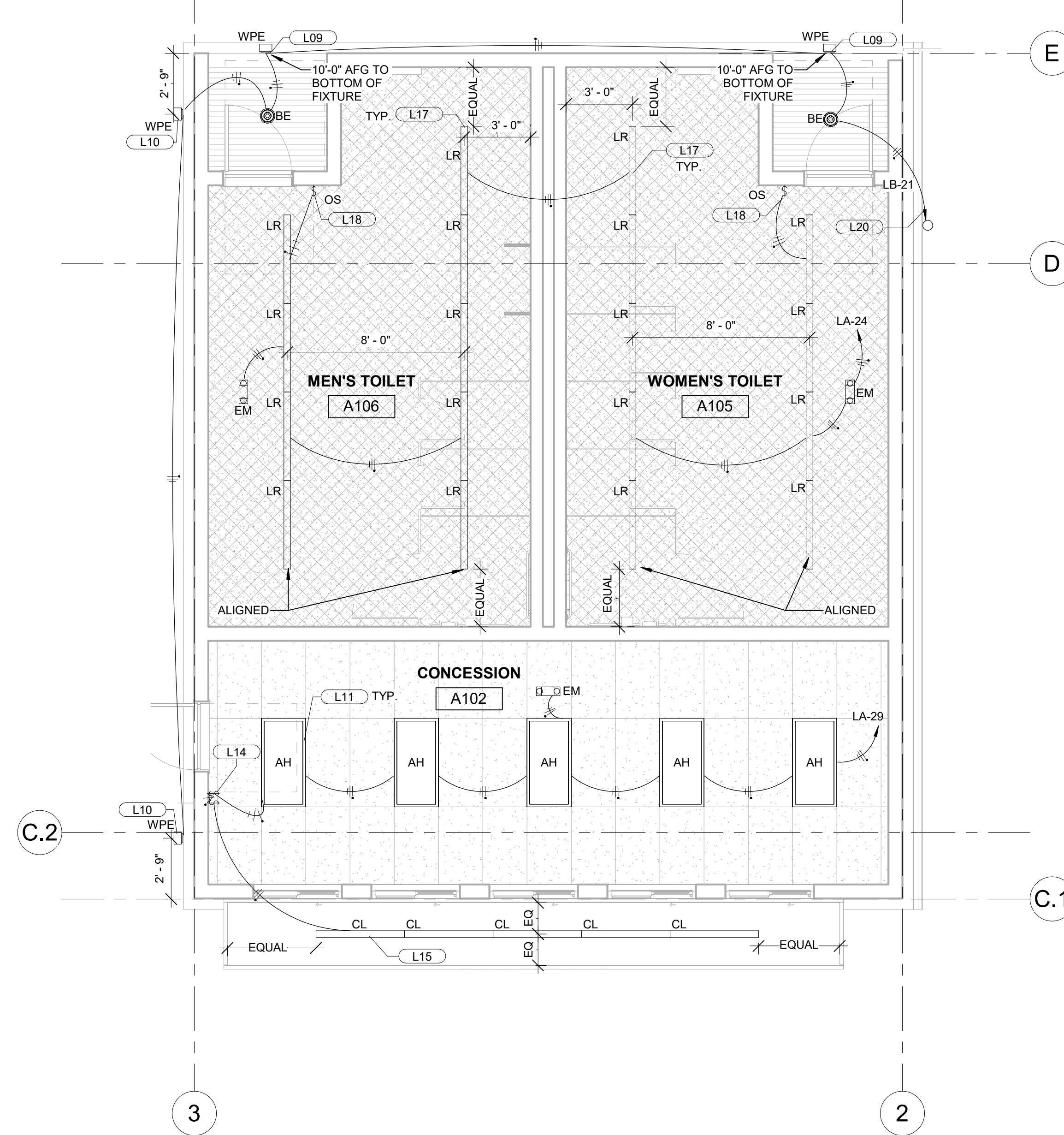
4 PRESSBOX LIGHTING
1/4" = 1'-0"



3 TICKET BOOTH LIGHTING
1/4" = 1'-0"



1 SPIRIT STORE BUILDING LIGHTING
1/4" = 1'-0"

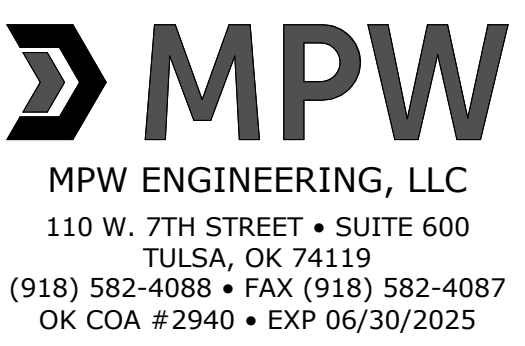


2 CONCESSIONS BUILDING LIGHTING
1/4" = 1'-0"



20210121.35.05 CN SHS PHASE 2

ADDRESS HERE
E101
LIGHTING PLANS

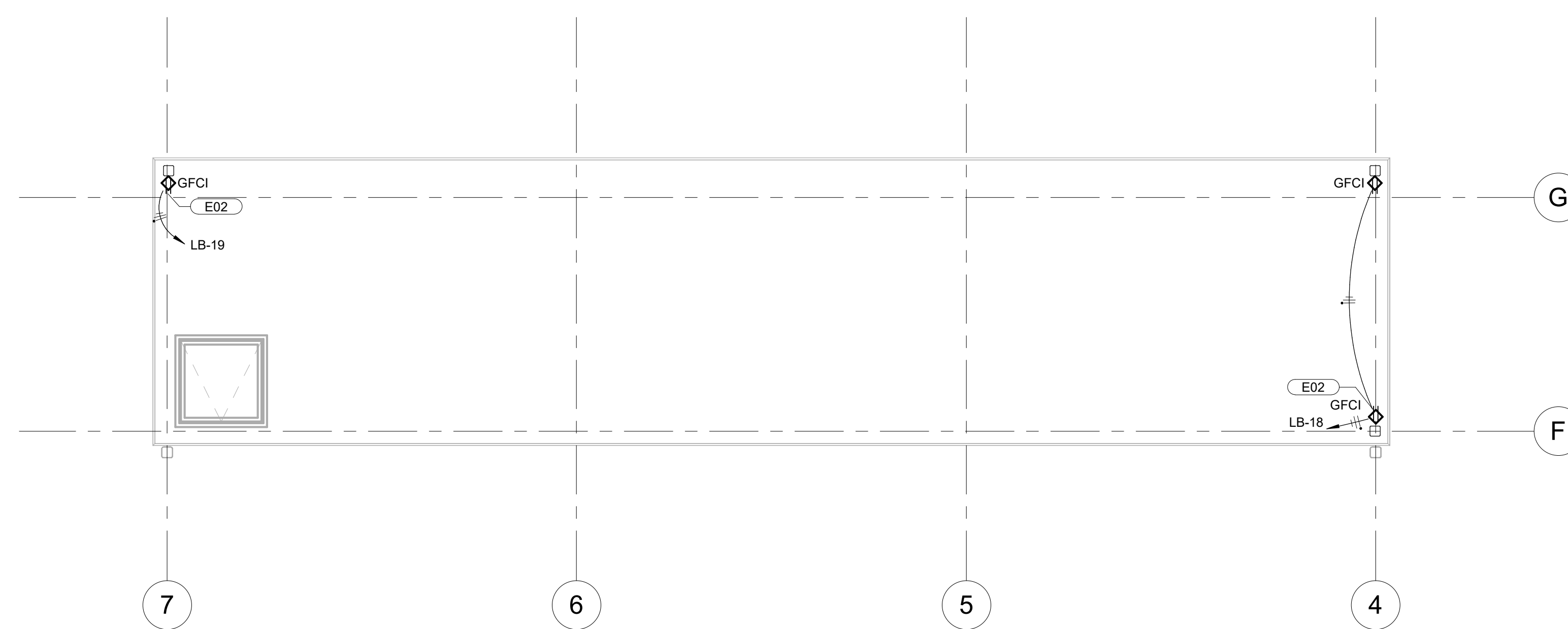


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20210121.35.05
ISSUE DATE:
12/22/2023
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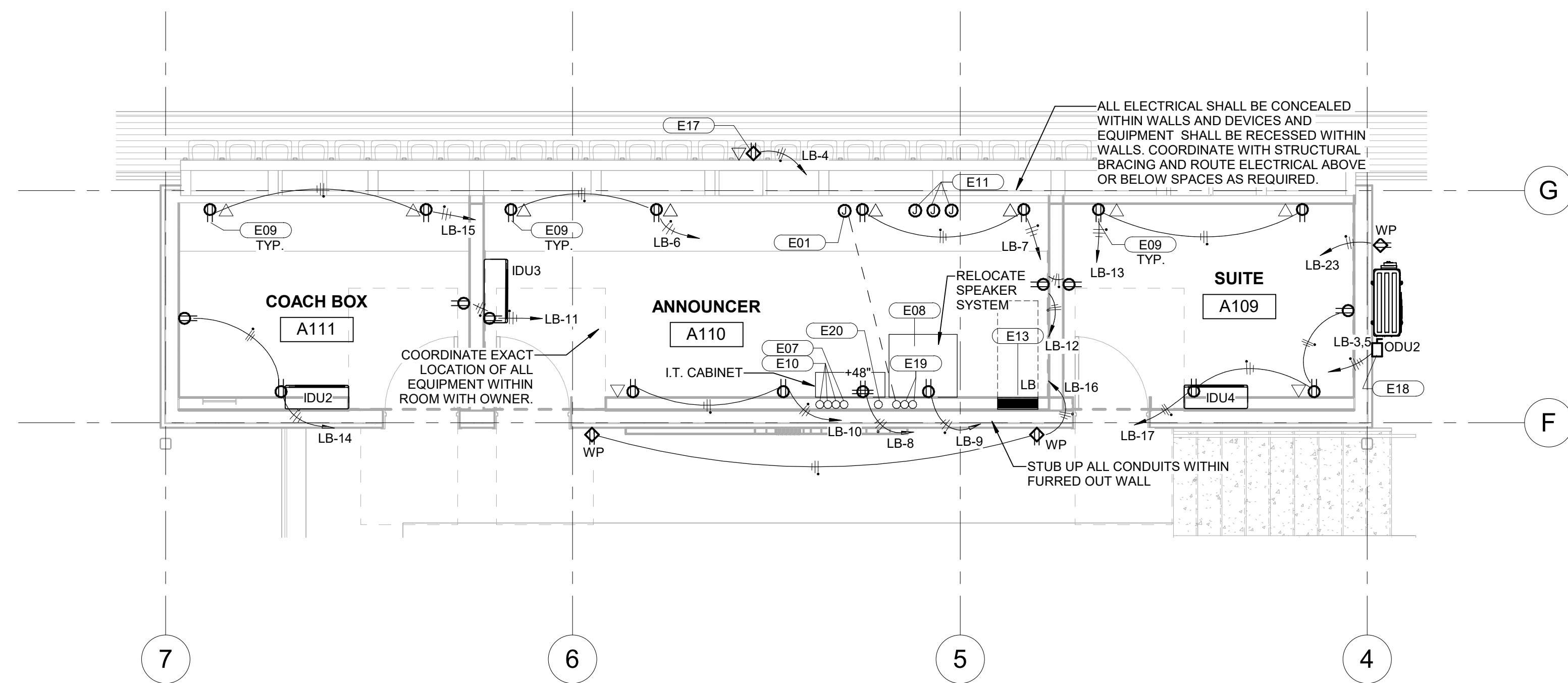
SHEET NAME:
LIGHTING PLANS

SHEET NUMBER:
E101

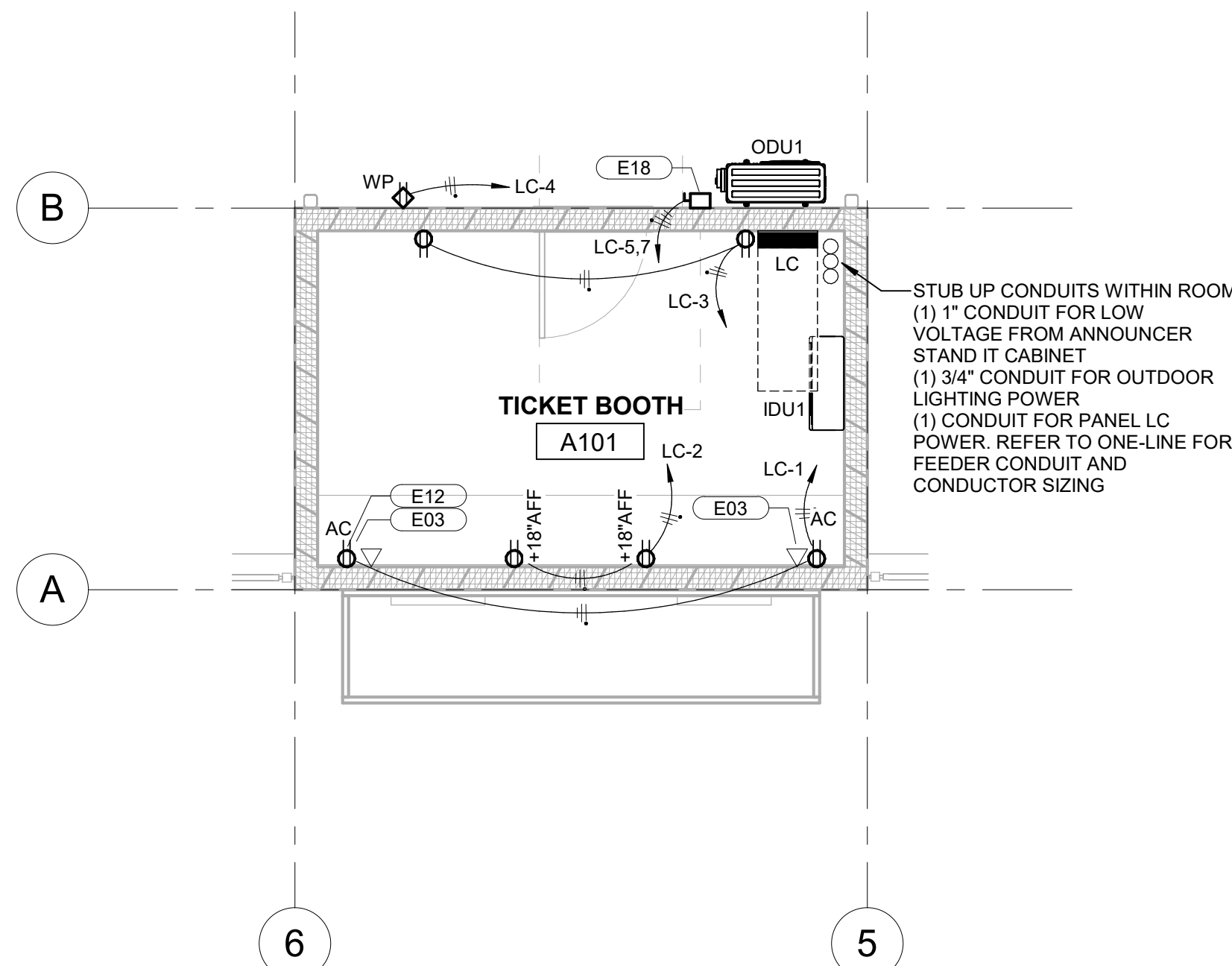
ELECTRICAL KEYNOTES	
E01	PROVIDE LOW VOLTAGE JUNCTION BOXES AND BELOW FLOOR CONDUIT FROM SPEAKER SYSTEM TO LOWER FRONT WINDOW WALL.
E02	PROVIDE GFCI WEATHER RESISTANT RECEPTACLE WITH WHILE IN USE COVER MOUNTED TO POSTS AT HEIGHT 18" ABOVE FINISHED FLOOR.
E03	PROVIDE RECEPTACLE AND ETHERNET JACK OUTLET ABOVE COUNTERTOP.
E04	PROVIDE RECEPTACLE BELOW COUNTERTOP.
E06	PROVIDE RECEPTACLE NEXT TO ADJACENT SINK AT HEIGHT 48" AFF TO TOP OF BACK BOX.
E07	RELOCATE IT PANEL FROM NORTH STADIUM. PROVIDE LOW VOLTAGE CONDUIT TO IT PANEL FOR COMMUNICATIONS FROM SERVICE PROVIDER. COORDINATE WITH OWNER AND SERVICE PROVIDERS AS REQUIRED.
E08	RELOCATE STADIUM SOUND SYSTEM FROM NORTH STADIUM. PROVIDE LOW VOLTAGE CONDUITS AND WIRING PER MANUFACTURER REQUIREMENTS FROM ALL STADIUM SPEAKERS TO SOUND SYSTEM. REFER TO SITE PLAN FOR SPEAKER CONDUIT LOCATIONS.
E09	PROVIDE RECEPTACLES AND LOW VOLTAGE DATA OUTLETS BELOW COUNTERTOP AT WINDOWS FOR COACH BOX, ANNOUNCER, AND SUITE. PROVIDE CAT6 CABLE FROM DATA OUTLETS TO IT PANEL.
E10	PROVIDE BELOW GRADE LOW VOLTAGE 1" CONDUITS FROM IT PANEL TO ADJACENT CONCESSIONS, SPIRIT STORE, AND TICKET BOOTH BUILDINGS.
E11	PROVIDE LOW VOLTAGE JUNCTION BOXES BELOW COUNTERTOP FOR NORTHWEST PLAY CLOCK, SOUTHEAST PLAY CLOCK, AND SCOREBOARD. PROVIDE LOW VOLTAGE 1" CONDUIT AND WIRING FROM JUNCTION BOXES TO BELOW GRADE FOR EACH PIECE OF EQUIPMENT. MATCH EXISTING WIRING.
E12	PROVIDE RECEPTACLES AND DATA OUTLETS ABOVE AND BELOW COUNTERTOP AS INDICATED. COORDINATE FINAL LOCATIONS WITH OWNER BEFORE INSTALLATION.
E13	PROVIDE RECESSED PANELBOARD WITH FLUSH MOUNT SURGE SUPPRESSOR. REFER TO PANEL NOTES FOR SURGE SUPPRESSOR INFORMATION.
E17	PROVIDE WEATHER RESISTANT GFCI RECEPTACLE AND DATA OUTLET ON EXTERIOR OF BUILDING FOR STREAMING CAMERA. OUTLETS TO HAVE WHILE-IN USE COVERS. COORDINATE EXACT LOCATION WITH OWNER.
E18	PROVIDE 240V, 1 PHASE, 30AMP NEMA 3R DISCONNECT FOR HVAC EQUIPMENT. ROUTE CONDUITS AND CONDUCTORS FROM HEAT PUMP TO INDOOR UNITS AS REQUIRED. CONCEAL ALL CONDUITS WHERE POSSIBLE.
E19	PROVIDE BELOW GRADE LOW VOLTAGE CONDUITS AND CABLES OUT TO SPEAKERS ON STADIUM LIGHT POLES. MATCH CONDUIT AND CONDUCTOR SIZING AS PREVIOUSLY EXISTING.
E20	PROVIDE BELOW GRADE CONDUIT OUT TO FUTURE SCOREBOARD DISPLAY SCREEN.



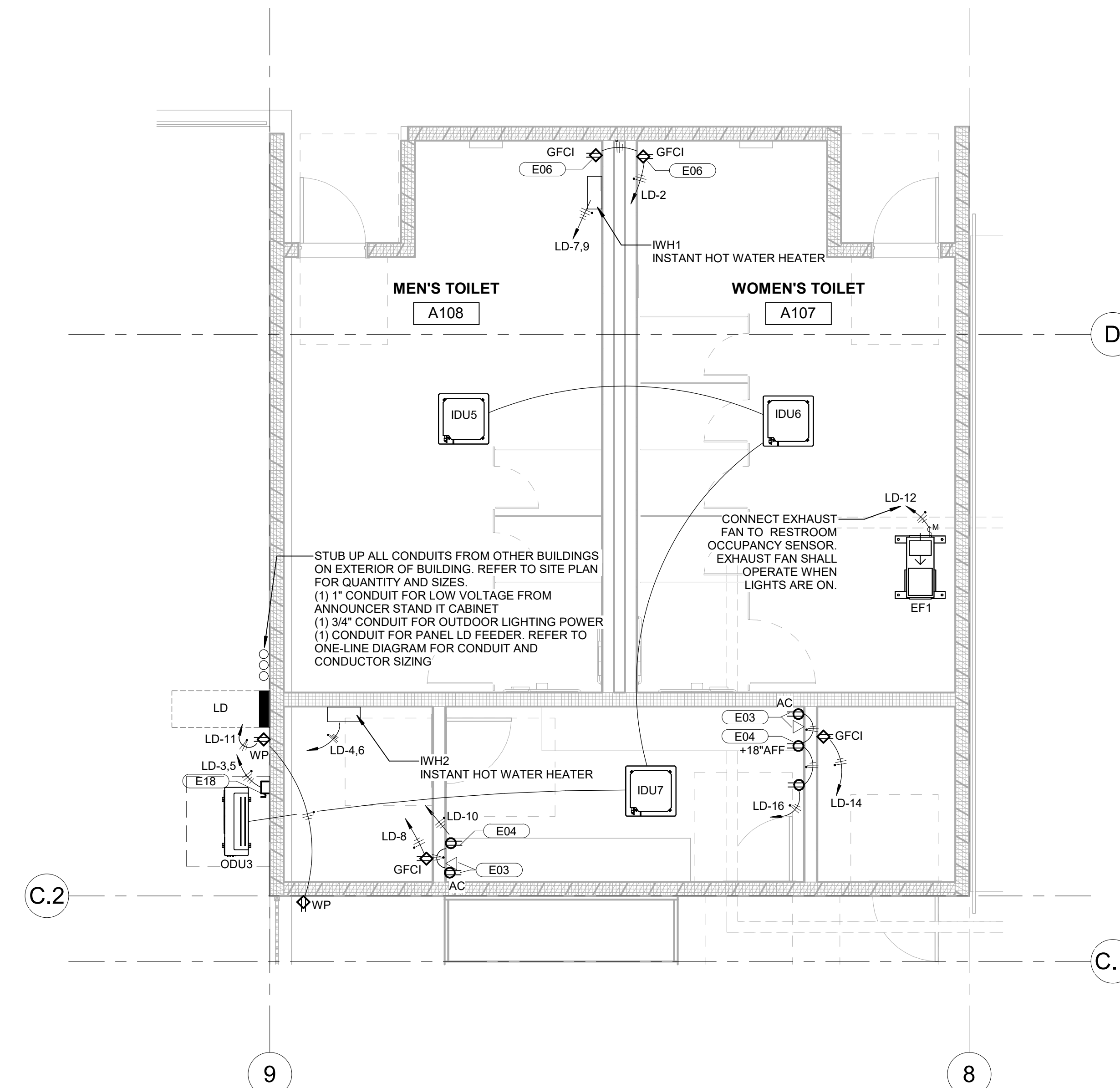
5 PRESSBOX ABOVE POWER PLAN
1/4" = 1'-0"



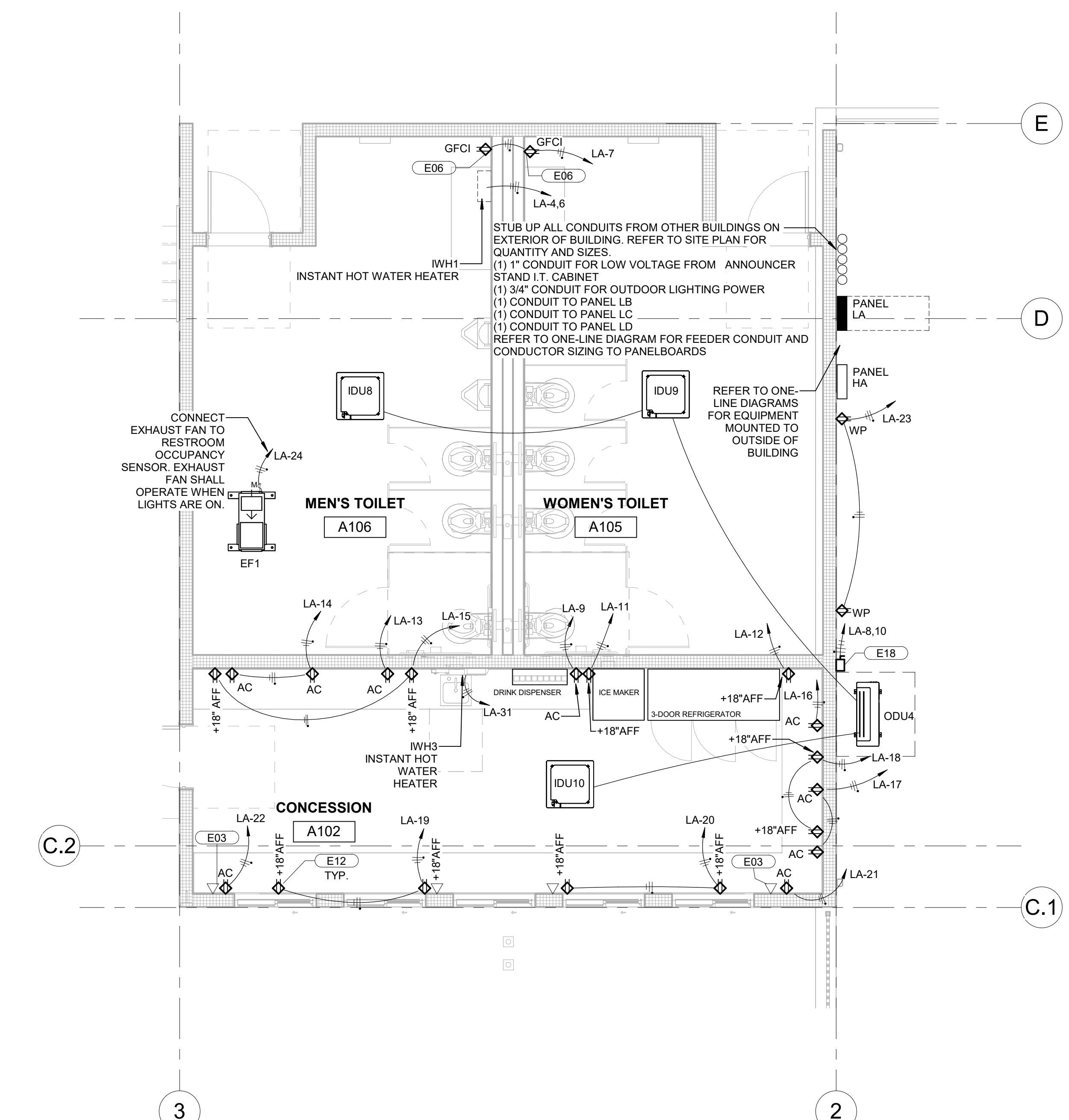
4 PRESSBOX POWER PLAN
1/4" = 1'-0"



3 TICKET BOOTH POWER PLAN
1/4" = 1'-0"



2 SPIRIT STORE BUILDING POWER PLAN
1/4" = 1'-0"



1 CONCESSIONS BUILDING POWER PLAN
1/4" = 1'-0"

20210121.35.05 CN SHS PHASE 2

ADDRESS HERE
E201
POWER PLANS

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600
TULSA, OK 74119
(918) 582-4088 • FAX (918) 582-4087
OK COA # 2940 • EXP 06/30/2025

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20210121.35.05
ISSUE DATE:
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POWER PLANS
SHEET NUMBER:
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LA PANELBOARD

120/240 Single, 1PH, 3W
400A, M.C.B. BOTTOM FEED
65KAIC, SERVICE ENTRANCE RATED
SURFACE MOUNTED, NEMA 3R
EQUIPMENT GROUND BUS

SERVES: SOUTH STADIUM BUILDING PANELS
LOCATION: EXTERIOR CONCESSIONS
NOTES:

DESCRIPTION	WIRE SIZE	BRKR	PL	A	B	PL	BRKR	WIRE SIZE	DESCRIPTION
1 MUSCO BALLPARK LIGHT CNTLS	#10 20 A	1	0.98	0.98			1 20 A	#10	SOUTHEAST TIMER
3 EXISTING SCOREBOARD	#10 20 A	2	1.92	2.40	1.92	2.40	2 25 A	#10	IWH1-RESTROOMS (2)
5	--	--	--	1.92	2.40		--	--	
7 RESTROOM RECEPTACLES	#12 20 A	1			0.36	3.00	2 30 A	#10	ODU4
9 DRINK DISPENSER	#12 20 A	1	0.48	3.00			1 20 A	--	Spare
11 ICE MAKER	#12 15 A	1	0.84	0.48	0.84	0.48	1 15 A	#12	3-DOOR REFRIGERATOR
13 CONCESSIONS RECEPTACLES	#12 20 A	1	0.18	0.36			1 20 A	#12	CONCESSIONS RECEPTACLES
15 CONCESSIONS RECEPTACLES	#12 20 A	1			0.36	0.18	1 20 A	#12	CONCESSIONS RECEPTACLES
17 CONCESSIONS RECEPTACLES	#12 20 A	1	0.36	0.36			1 20 A	#12	CONCESSIONS RECEPTACLES
19 CONCESSIONS RECEPTACLES	#12 20 A	1			0.36	0.36	1 20 A	#12	CONCESSIONS RECEPTACLES
21 CONCESSIONS RECEPTACLES	#12 20 A	1	0.18	0.18			1 20 A	#12	CONCESSIONS RECEPTACLES
23 OUTDOOR RECEPTACLES	#12 20 A	1	0.36	0.98	0.36	0.98	1 20 A	#12	RESTROOM LIGHTING
25 SOUTHEAST TIMER	#10 20 A	1	0.50	0.00			1 20 A	--	Spare
27 RESTROOM LIGHTING	#12 20 A	1			0.00	0.00	1 20 A	--	Spare
29 CONCESSIONS LIGHTING	#12 20 A	1	0.33	0.00			1 20 A	--	Spare
31 IWH3-CONCESSIONS (2)	#10 25 A	1			2.40	0.00	1 20 A	--	Spare
33 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
35 PANELBOARD LD (12)	RE-OLD 150 A	2			13.24	2.03	2 60 A	RE-OLD	PANELBOARD LC (12)
37	--	--	--	13.69	1.74		--	--	
39 PANELBOARD LB (12)	RE-OLD 100 A	2			6.76	0.00	2 30 A	--	SURGE SUPPRESSOR (11)
41	--	--	--	5.42	0.00		--	--	
TOTAL CONNECTED				33.05					KVA
TOTAL CONNECTED				275.49					AMPS
TOTAL LOAD				69.08					AMPS
PER NEC ARTICLE 220 FEEDER LOAD				69.83					AMPS

LB PANELBOARD

120/240 Single, 1PH, 3W
100A, M.C.B. BOTTOM FEED
22KAIC
MOUNTED RECESSED, NEMA 1
EQUIPMENT GROUND BUS

SERVES: PRESSBOX BUILDING
LOCATION: ANNOUNCER ROOM
NOTES:

DESCRIPTION	WIRE SIZE	BRKR	PL	A	B	PL	BRKR	WIRE SIZE	DESCRIPTION
1 EXTERIOR SIGNAGE	#12 20 A	1	1.20	0.25			1 20 A	#12	INDOOR LIGHTING
3 ODU2	#12 20 A	2	2.16	0.36	2.16	0.18	1 20 A	#12	STREAMING CAMERA RECEPTACLE
5	--	--	--	2.16	0.36		1 20 A	#12	ANNOUNCER FRONT RECEPT.
7 ANNOUNCER FRONT RECEPTS.	#12 20 A	1			0.36	0.80	1 20 A	#12	IT PANEL RECEPTACLE
9 SPEAKER SYSTEM RECEPTACLE	#12 20 A	1	0.18	0.36			1 20 A	#12	ANNOUNCER BACK RECEPTACLES
11 ANNOUNCER/COACH BOX REC.	#12 20 A	1	0.36	0.36	0.36	0.36	1 20 A	#12	ANNOUNCER AND SUITE RECEPT.
13 SUITE RECEPTACLES	#12 20 A	1	0.36	0.36			1 20 A	#12	COACH BOX RECEPTACLES
15 COACH BOX FRONT RECEPT.	#12 20 A	1			0.36	0.36	1 20 A	#12	OUTDOOR RECEPTACLES
17 SUITE RECEPTACLES	#12 20 A	1	0.54	0.36			1 20 A	#12	TOP OF ANNOUNCER RECEPT.
19 TOP OF ANNOUNCER RECEPT.	#12 20 A	1			0.18	0.12	1 20 A	#12	TOP OF ANNOUNCER RECEPT.
21 OUTDOOR LIGHTS	#10 20 A	1	0.64	0.00			1 20 A	--	Spare
23 SERVICE RECEPTACLE-ODU2	#10 20 A	1	0.18	0.00	0.18	0.00	1 20 A	--	Spare
25 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
27 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
29 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
31 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
33 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
35 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
37 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
39 Spare	--	--	--	0.00	0.00		2 30 A	--	SURGE SUPPRESSOR (11)
41 Spare	--	--	--	0.00	0.00		--	--	
TOTAL CONNECTED				6.76		5.42			KVA
TOTAL CONNECTED				58.33		45.20			AMPS
TOTAL LOAD				12.18		50.77			AMPS
PER NEC ARTICLE 220 FEEDER LOAD				12.67		52.81			AMPS

LC PANELBOARD

120/240 Single, 1PH, 3W
60A, M.C.B. BOTTOM FEED
10KAIC
SURFACE MOUNTED, NEMA 1
EQUIPMENT GROUND BUS

SERVES: TICKET BOOTH LOADS
LOCATION: TICKET BOOTH
NOTES:

DESCRIPTION	WIRE SIZE	BRKR	PL	A	B	PL	BRKR	WIRE SIZE	DESCRIPTION
1 COUNTERTOP RECEPTACLES	#12 20 A	1	0.36	0.36			1 20 A	#12	BELOW COUNTER RECEPTACLES
3 BACK ROOM RECEPTACLES	#12 20 A	1	0.36	0.18	0.36	0.18	1 20 A	#12	OUTDOOR RECEPTACLE
5 ODU1	#12 15 A	2	1.20	0.11			1 20 A	#12	LIGHTS
7	--	--	--	1.20	0.00		1 20 A	--	Spare
9 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
11 Spare	--	--	--	0.00	--		1 --	--	Space
13 Spare	--	--	--	0.00	--		1 --	--	Space
15 Spare	--	--	--	0.00	0.00		2 30 A	--	SURGE SUPPRESSOR (11)
17 Spare	--	--	--	0.00	0.00		--	--	
TOTAL CONNECTED				2.03		1.74			KVA
TOTAL CONNECTED				16.91		14.50			AMPS
TOTAL LOAD				3.77		15.71			AMPS
PER NEC ARTICLE 220 FEEDER LOAD				3.78		15.75			AMPS

LD PANELBOARD

120/240V Single, 1PH, 3W
150A, M.C.B. BOTTOM FEED
14KAIC
SURFACE MOUNT, NEMA 3R
EQUIPMENT GROUND BUS

SERVES: SPIRIT STORE BUILDING
LOCATION: SPIRIT STR. BUILDING EXT. WALL
NOTES:

DESCRIPTION	WIRE SIZE	BRKR	PL	A	B	PL	BRKR	WIRE SIZE	DESCRIPTION
1 NORTHWEST TIMER	#10 20 A	1	0.50	0.36			1 20 A	#12	RESTROOM GFCI RECEPTACLES
3 ODU3	#10 25 A	2	2.28	6.95	2.28	6.95	2 65 A	#4	IWH2-JANITOR SINK (2)
5	--	--	--	2.28	6.95		--	--	
7 IWH1-RESTROOM (2)	#10 25 A	2	2.40	0.36	2.40	0.18	1 20 A	#12	JANITOR RECEPTACLE
9	--	--	--	2.40	0.36		1 20 A	#12	SPIRIT STORE RECEPTACLES
11 OUTDOOR RECEPTACLES	#12 20 A	1	0.36	0.98	0.36	0.98	1 20 A	#12	RESTROOM LIGHTS
13 SPIRIT STR. AND JANITOR LIGHTS	#12 20 A	1	0.21	0.18			1 20 A	#12	JANITOR GFCI RECEPTACLE
15 Spare	--	--	--	0.00	0.54		1 20 A	#12	SPIRIT STORE RECEPTACLES
17 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
19 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
21 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
23 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
25 Spare	--	--	--	0.00	0.00		1 20 A	--	Spare
27 Spare	--	--	--	0.00	0.00		2 30 A	--	SURGE SUPPRESSOR (11)
29 Spare	--	--	--	0.00	0.00		--	--	
TOTAL CONNECTED				13.24		13.69			KVA
TOTAL CONNECTED				110.29		114.08			AMPS
TOTAL LOAD				26.93		112.19			AMPS
PER NEC ARTICLE 220 FEEDER LOAD				27.07		112.79			AMPS

HA PANELBOARD

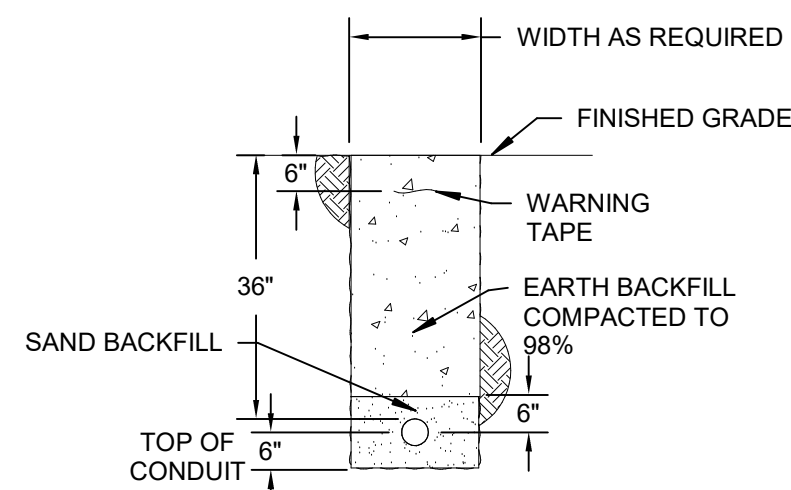
480/277 Wye, 3PH, 4W
200A, MCB, 100% RATED
35KAIC, SERVICE ENTRANCE RATED
SURFACE, NEMA 3R

SERVES: STADIUM BALLPARK LIGHTS
LOCATION: SOUTH END OF SOUTH STADIUM
NOTES: NEW 480V

DESCRIPTION	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	DESCRIPTION
1 F1	#10 30 A	3	4.67	4.67				3 30 A	#6	F4
3	--	--	--	4.67	4.67			--	--	
5	--	--	--			4.67	4.67	--	--	
7 F2	#10 30 A	3	4.67	4.67				3 30 A	#6	F3
9	--	--	--			4.67	4.67	--	--	
11	--	--	--			4.67	4.67	--	--	
13 FUTURE SCOREBOARD DISPLAY	SPACE	0 A	3	22.95	--			3 --	--	Space
15	--	--	--			22.95	--	--	--	
17	--	--	--			22.95	--	--	--	
19 Space	--	--	3	--	--			3 --	--	Space
21	--	--	--			--	--	--	--	
23	--	--	--			--	--	--	--	
25 Space	--	--	3	--	0.00			3 30 A	--	SURGE SUPPRESSOR (13)
27	--	--	--			--	0.00	--	--	
29	--	--	--			--	--	--	--	
TOTAL CONNECTED				41.61		41.61				41.61 KVA
TOTAL CONNECTED				150.23		150.23				150.23 AMPS
TOTAL LOAD				124.84		150.16				150.16 AMPS
PER NEC ARTICLE 220 FEEDER LOAD				156.06		187.70				187.70 AMPS

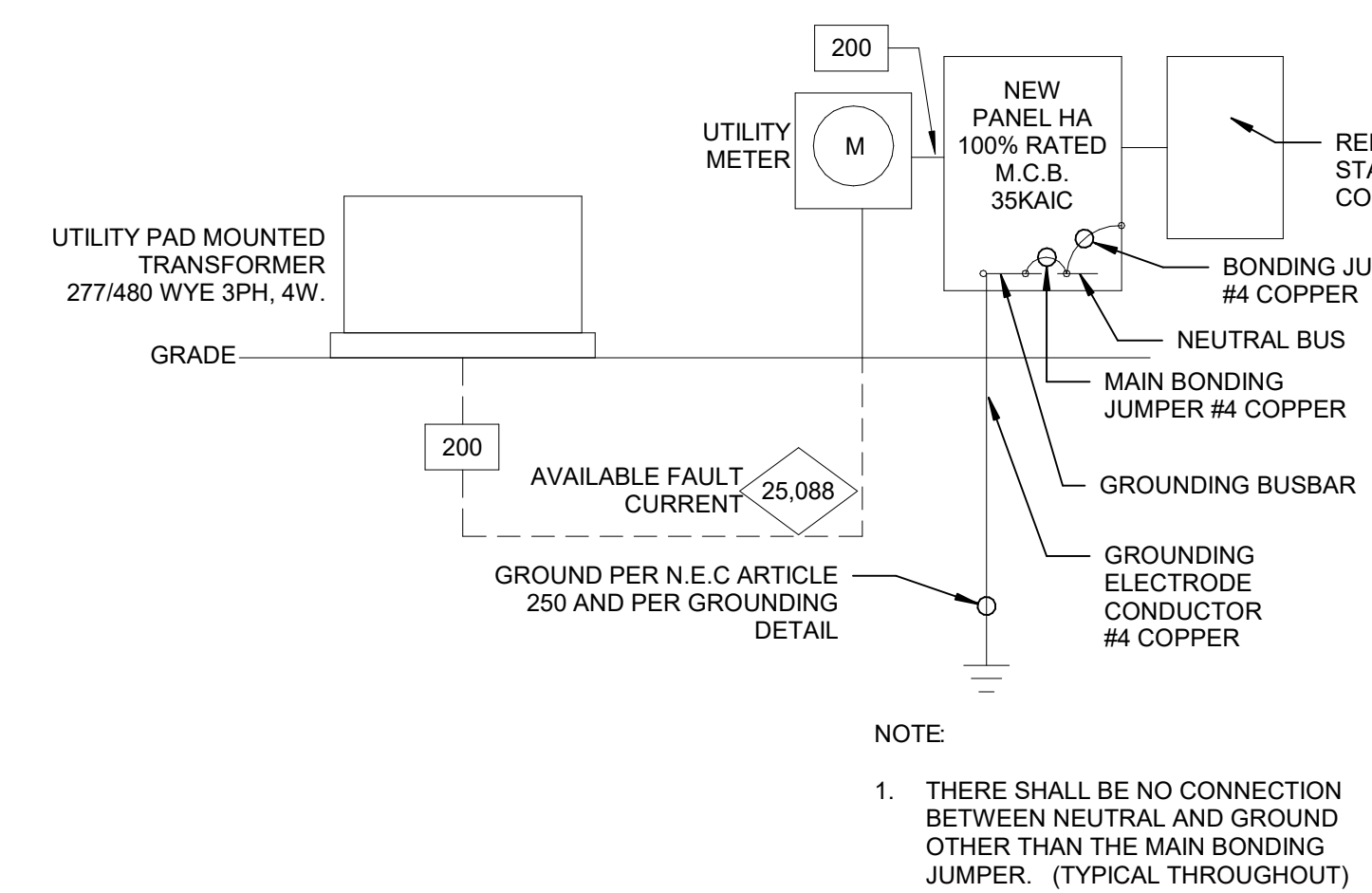
PANELBOARD NOTES (#):

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. PROVIDE LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).
3. PROVIDE LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
4. PROVIDE GFCI BREAKER (PERSONNEL PROTECTION 5 mA).
5. PROVIDE GFCI BREAKER (EQUIPMENT PROTECTION 30 mA).
6. PROVIDE COMBINATION ARC FAULT CIRCUIT BREAKERS WHERE INDICATED PER NEC 210.12(A).
7. CONDUCTOR SIZE HAS BEEN INCREASED TO ACCOUNT FOR VOLTAGE DROP. SIZE GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
8. COORDINATE PANELBOARD AIC RATING WITH UTILITY.
9. REFERENCE ONE-LINE DIAGRAM FOR WIRE SIZE/QUANTITY.
10. PROVIDE 100% RATED BREAKER.
11. PROVIDE HACR RATED BREAKER, #10 CONDUCTORS, AND SURGE SUPPRESSOR. PROVIDE SURGE SUPPRESSOR WITH MAXIMUM SURGE CURRENT 120KA PER PHASE, 60KA PER MODE AND L-L, L-N, L-G, AND N-G PROTECTION. SERVICE TRACK TK-ST120-1S240 OR EQUAL. PROVIDE RECESSABLE MODEL TK-ST120-1S240-R WHERE PANELBOARDS ARE MOUNTED RECESSED AND TK-ST120-1S240-XX NEMA 4X ENCLOSURE WHERE MOUNTED OUTDOORS.
12. REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR AND CONDUIT SIZING.
13. PROVIDE HACR RATED BREAKER, #10 CONDUCTORS, AND SURGE SUPPRESSOR. PROVIDE SURGE SUPPRESSOR WITH MAXIMUM SURGE CURRENT 120KA PER PHASE, 60KA PER MODE AND L-L, L-N, L-G, AND N-G PROTECTION. SERVICE TRACK TK-ST120-3Y480-XX WITH NEMA 4X ENCLOSURE OR EQUAL.



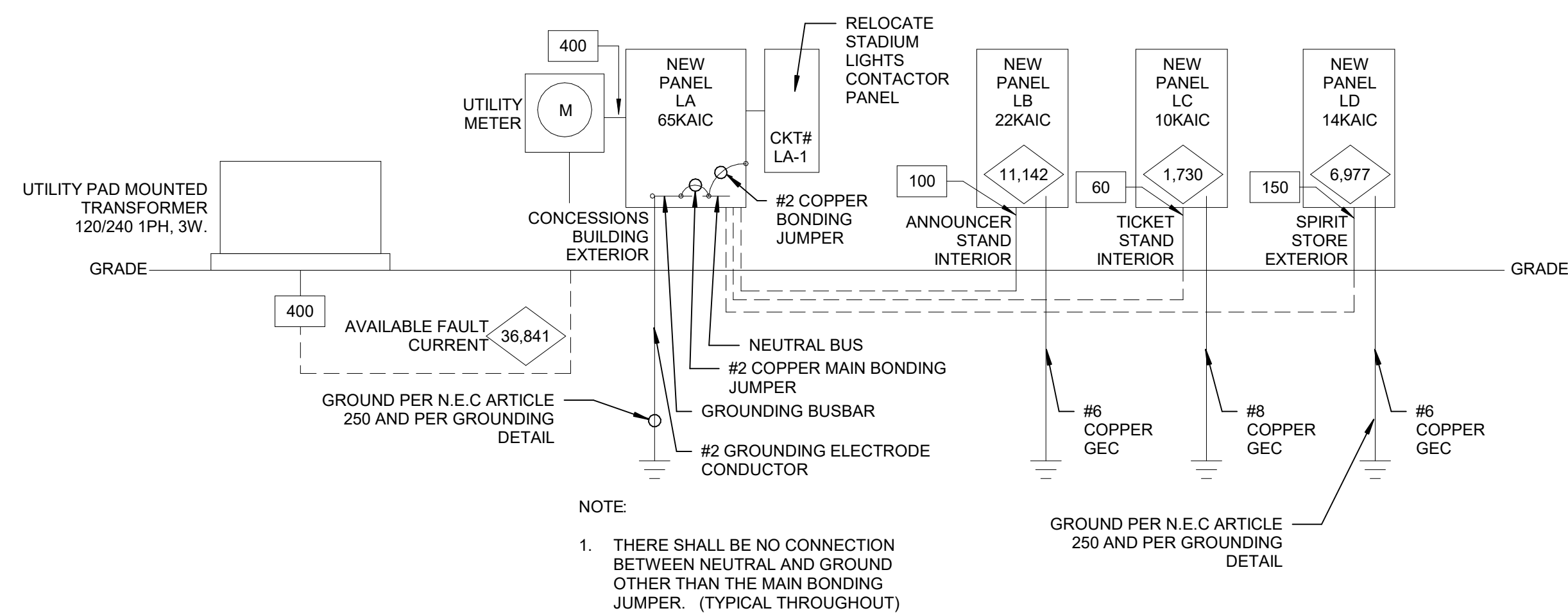
③ SINGLE CONDUIT DITCH N.T.S.

FEEDER MARK	VOLTAGE	PHASE	AMPACITY	WIRE	CONDUCTORS	GROUND	CONDUIT	COMMENTS
60	120/240	1	60	--	3#4	#10	1-1/4"	
100	120/240	1	100	--	3#1	#8	1-1/2"	
150	120/240	1	150	--	3#1/0	#6	2"	
200	277/480	3	200	4	4#3/0	--	2"	SERVICE
400	120/240	1	400	3	(2) SETS OF 3#3/0	--	(2)2"	SERVICE



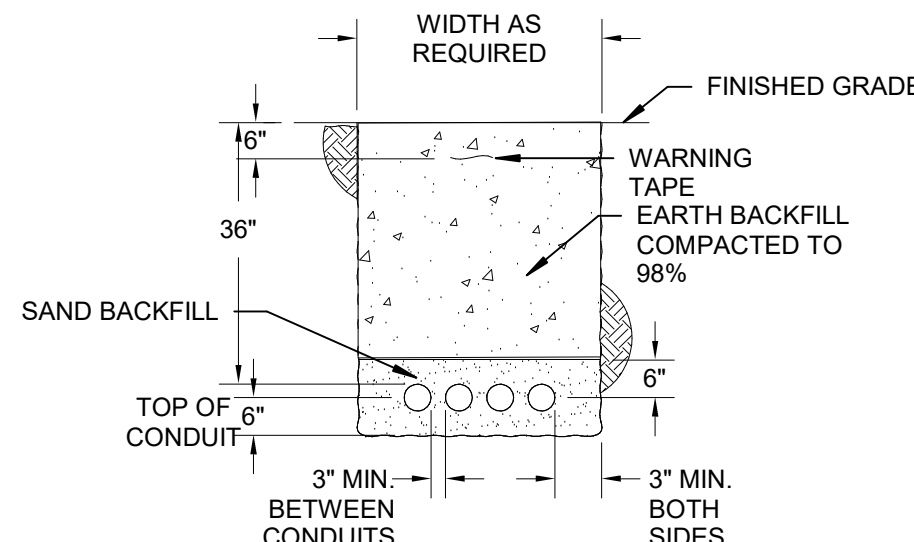
- NOTE:
1. THERE SHALL BE NO CONNECTION BETWEEN NEUTRAL AND GROUND OTHER THAN THE MAIN BONDING JUMPER. (TYPICAL THROUGHOUT)

② PANEL HA ONE-LINE DIAGRAM N.T.S.

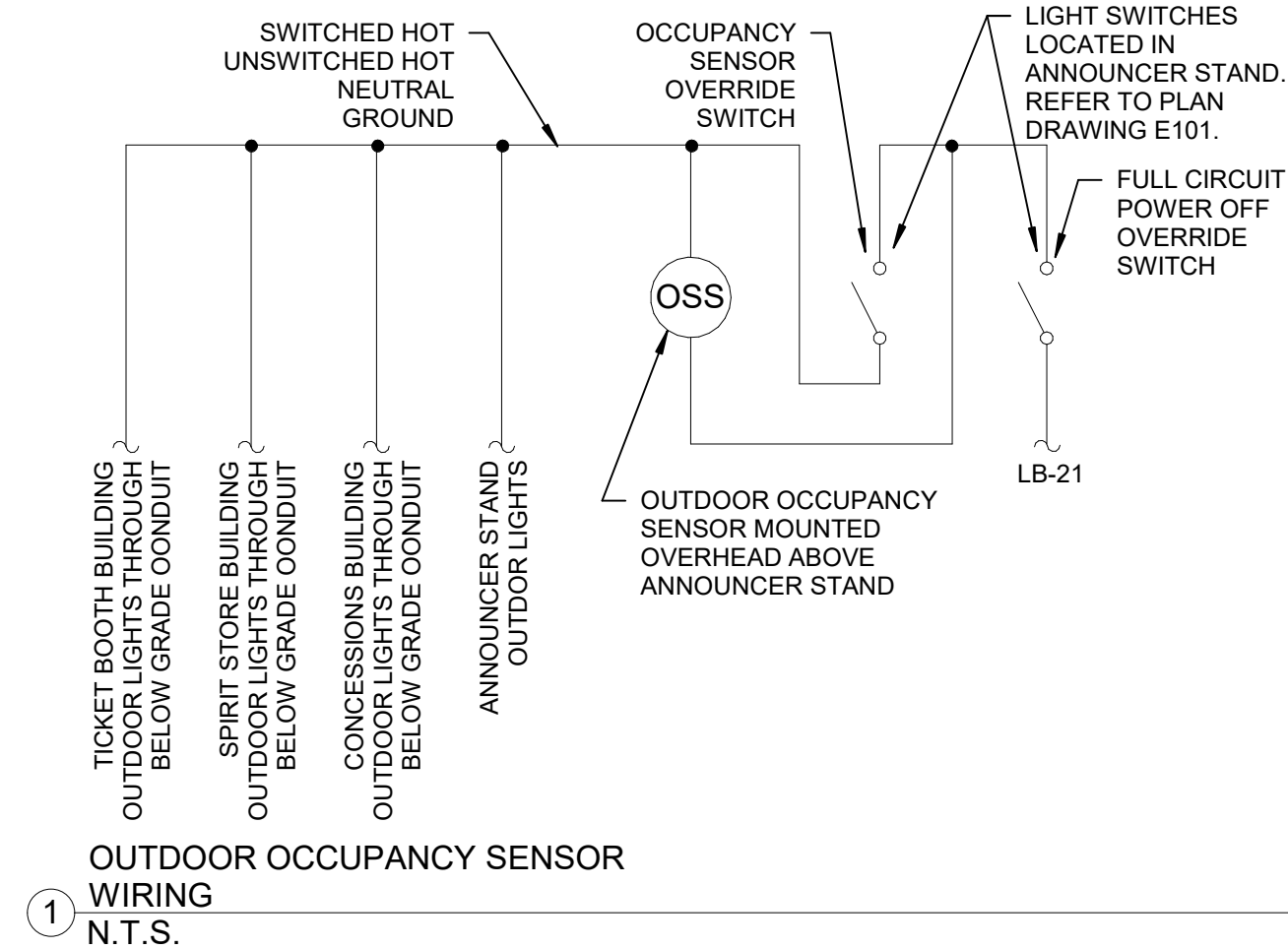


- NOTE:
1. THERE SHALL BE NO CONNECTION BETWEEN NEUTRAL AND GROUND OTHER THAN THE MAIN BONDING JUMPER. (TYPICAL THROUGHOUT)

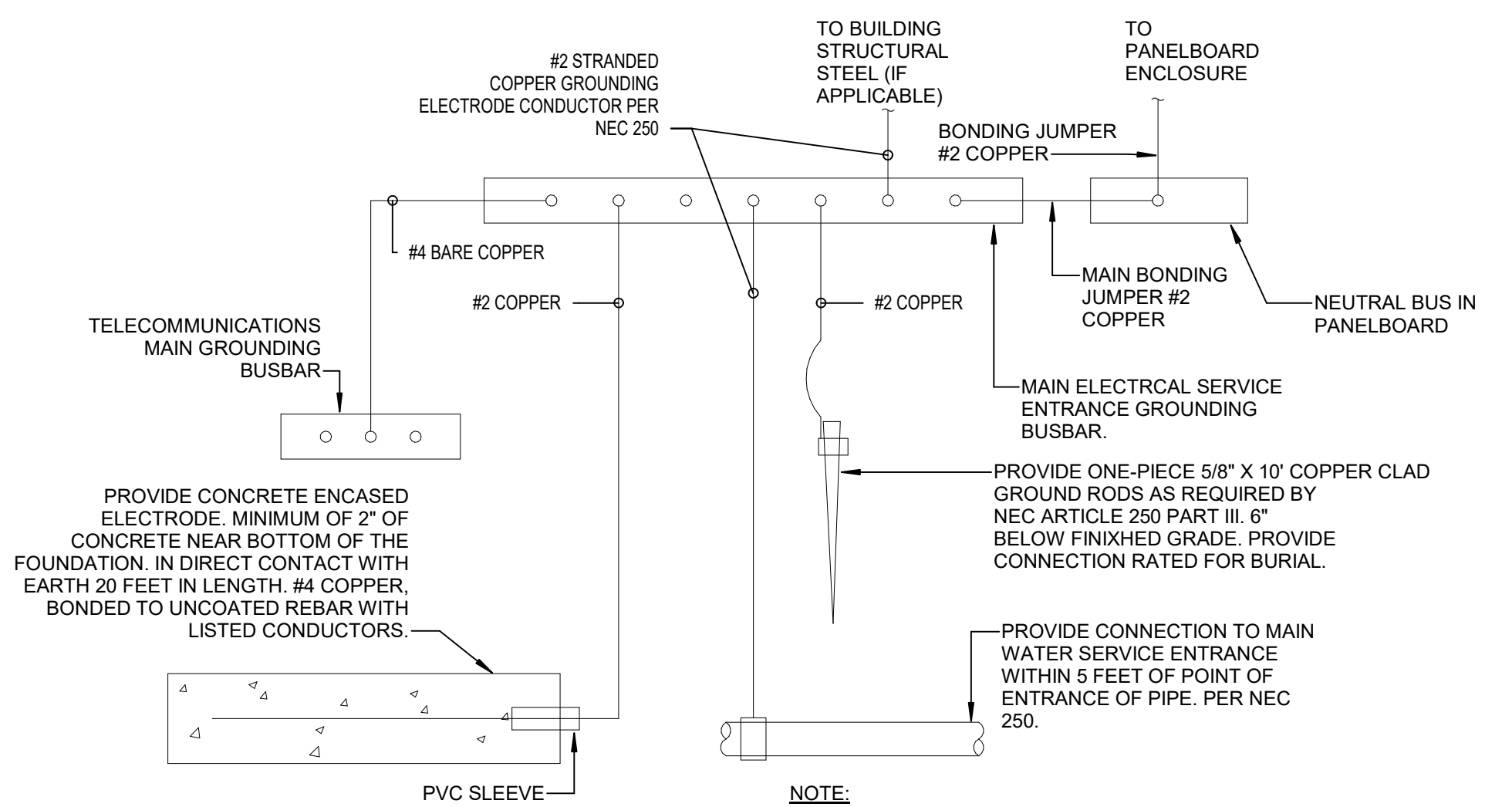
⑤ 120/240V 1 PHASE PANELBOARD ONE-LINE DIAGRAM N.T.S.



④ MULTIPLE CONDUIT DITCH N.T.S.



① OUTDOOR OCCUPANCY SENSOR WIRING N.T.S.



- NOTE:
1. PROVIDE GROUNDING OF TELECOMMUNICATION EQUIPMENT TO TELECOMMUNICATION MAIN GROUND BUSBAR PER TELECOMMUNICATION VENDORS DIRECTION.
 2. THERE SHALL BE NO CONNECTION BETWEEN NEUTRAL AND GROUND OTHER THAN THE MAIN BONDING JUMPER. (TYPICAL THROUGHOUT)

⑥ 120/240V 1 PHASE SERVICE GROUNDING DETAIL N.T.S.



20210121.35.05 CN SHS PHASE 2

ADDRESS HERE E301 ELECTRICAL DETAILS AND PANEL SCHEDULES



BLUE RIVER PROJECT NUMBER:
20210121.35.05
ISSUE DATE:
12/22/2023
ISSUE:
CONSTRUCTION DOCUMENTS
OTHER ISSUE DATES:
NO. DESCRIPTION DATE

SHEET NAME:
ELECTRICAL DETAILS AND PANEL SCHEDULES
SHEET NUMBER:
E301
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