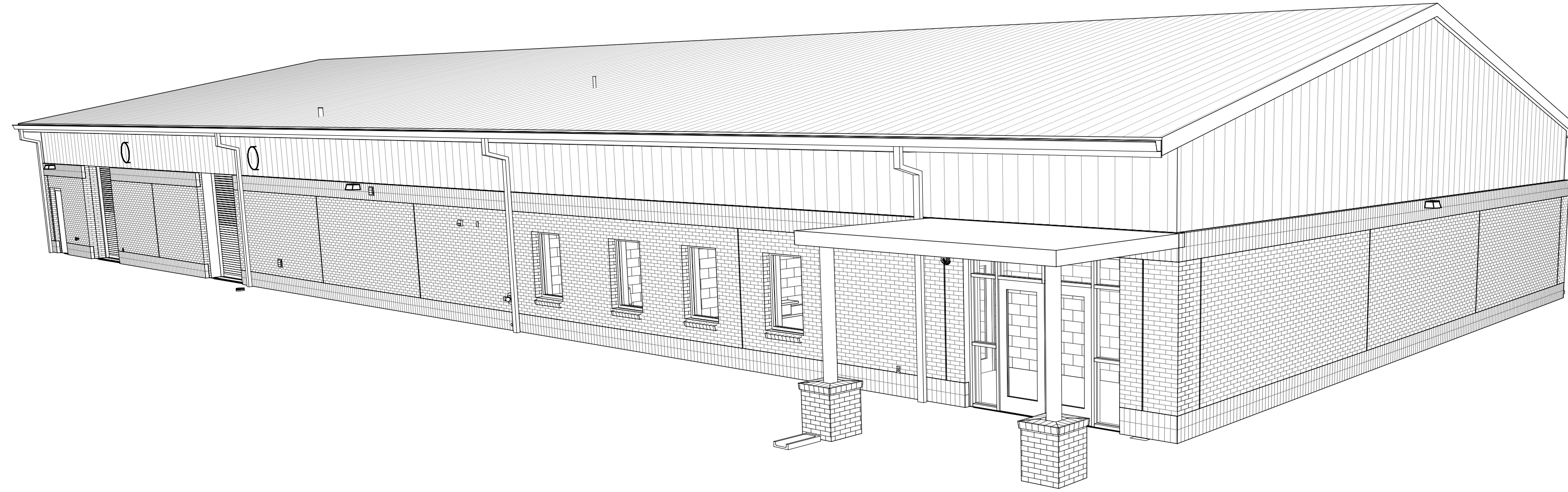


CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

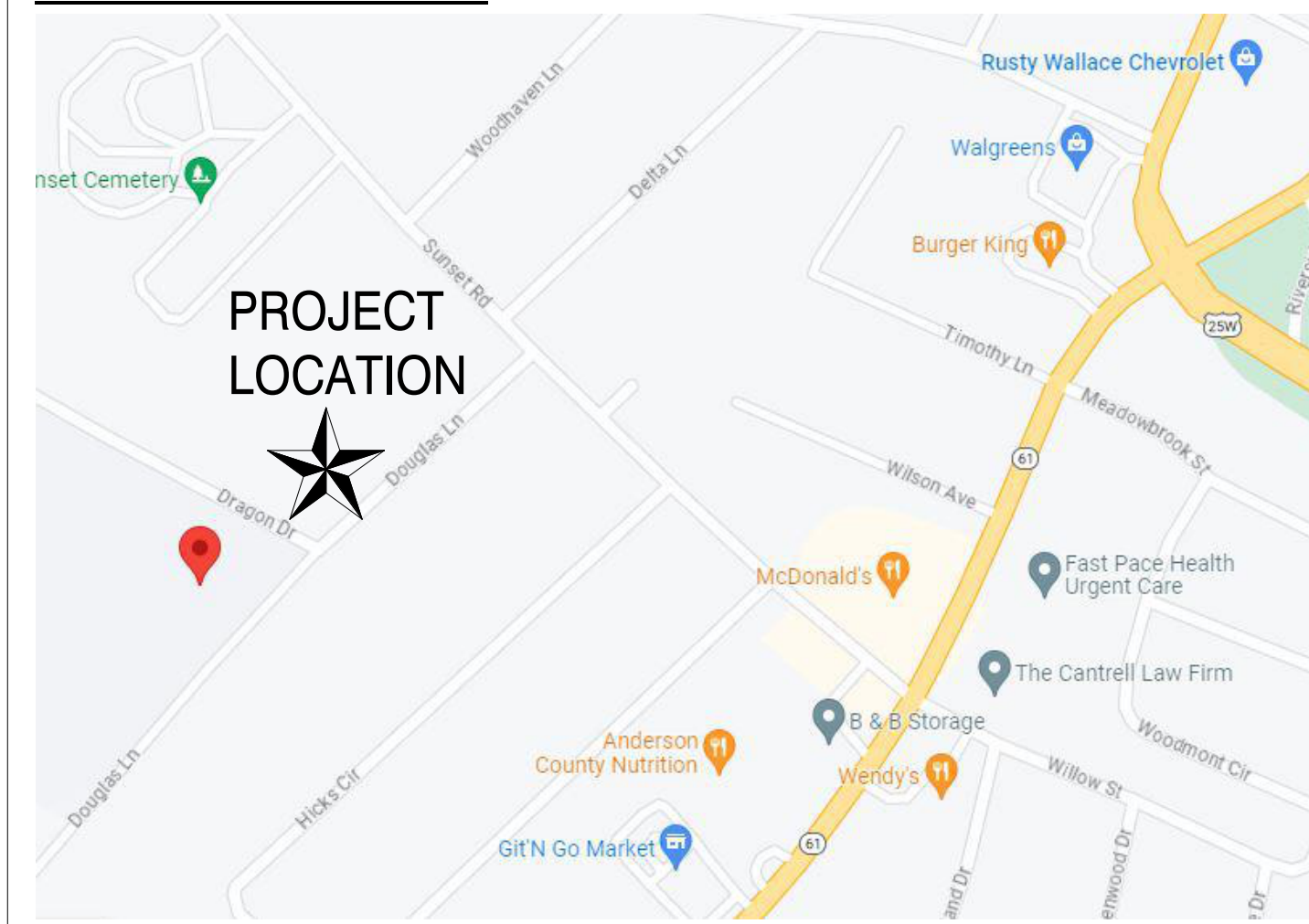
411 DOUGLAS LN
CLINTON, TN 37716



ABBREVIATIONS:

AFF	ABOVE FINISH FLOOR	MTL	- METAL
ALT	ALTERNATE	MG	- MANUFACTURING
ALUM	ALUMINUM	MFR	- MANUFACTURER
ARCH	ARCHITECTURAL	MIN	- MINIMUM
ACT	ACOUSTICAL TILE CEILING	MISC	- MISCELLANEOUS
ASPH	ASPHALT	NIC	- NOT IN CONTRACT
BF	BOTTOM FACE	NTS	- NOT TO SCALE
BSMT	BASEMENT	NO. #	- NUMBER
BM	BENCH MARK	OC	- ON CENTER
BLDG	BUILDING	OD	- OUTSIDE DIAMETER
BLK	BLOCK	P	- PLATE
BRG	BEARING	PLAS	- PLASTIC
CB	CATCH BASIN	P LAM	- PLASTIC LAMINATE
CJ	CONTROL JOINT	PLYWD	- PLYWOOD
CHB	CHALK BOARD	PTD	- PAINTED
CLG	CEILING	RAD,R	- RADIUS
CLOS	CLOSET	RD	- ROOF DRAIN
CLR	CLEAR	REINF	- REINFORCING
COL	COLUMN	REQD	- REQUIRED
COMP	COMPOSITION	RS	- RISER
CONC	CONCRETE	RM	- ROOM
CONST	CONSTRUCTION	RO	- ROUGH OPENING
CMU	CONCRETE MASONRY UNIT	SCHED	- SCHEDULE
CT	CERAMIC TILE	SCWD	- SOLID CORE WOOD
DTL	DETAIL	SECT	- SECTION
D, DIA	DIAMETER	SHT	- SHEET
DN	DOWN	SIM	- SIMILAR
DWG	DRAWING	SPECS	- SPECIFICATIONS
DF	DRINK FOUNTAIN	SOFT / SF	- SQUARE FEET
DS	DOWNSPOUT	STD	- STANDARD
EA	EACH	STL	- STEEL
EFC	EACH FACE	STOR	- STORAGE
ELEC	ELECTRIC	SD	- STORM DRAIN
ENC	ELECTRIC WATER COOLER	SUSP	- SUSPENDED
ELEV	ELEVATION	SQ	- SQUARE
EXIST	EXISTING	TB	- TACK BOARD
EXT	EXTENSION	THOLD	- THRESHOLD
EJ	EXPANSION JOINT	TLT	- TOILET
FE	FIRE EXTINGUISHER	TD, TDS	- THREAD (S)
FL	FLOOR	TF	- TOP FACE
FD	FLOOR DRAIN	TYP	- TYPICAL
FT	FOOT	URINAL	- URINAL
FTNG	FOOTING	VIF	- VERIFY IN FIELD
GALV	GALVANIZED IRON	VS	- VENT STACK
GA	GALVE	VOL	- VOLUME
GYP	GYPSPUM	VT	- VINYL TILE
HB	HOSE BIB	VERT	- VERTICAL
HCWD	HOLLOW CORE WOOD	WASCOT	- WANSBROT
HDW	HARDWARE	WC	- WATER CLOSET
ELEV	ELEVATION	WFG	- WATER HEATER
EXT	EXTENSION	WPROF	- WATERPROOFING
HT	HEIGHT	WF	- WIDE FLANGE
HM	HOLLOW METAL	WV	- WINDOW
ID	INSIDE DIAMETER	WWD	- WOOD
IN	INCH	W	- WITH
INV	INVERT	WWF	- WELDED WIRE FABRIC
JAN	JANITOR	WWM	- WELDED WIRE MESH
JST	JOIST	@	- AT
LAV	LAVATORY	C	- CHANNEL
LD	LOAD	Ø	- DIAMETER
MH	MANHOLE		
MAX	MAXIMUM		
MECH	MECHANICAL		

VICINITY MAP:



MATERIALS LEGEND:

	CONCRETE BLOCK		CONCRETE IN SECTION		RIGID INSULATION, EIFS AS NOTED
	BRICK		SOIL IN SECTION		PLYWOOD
	METAL IN SECTION		CRUSHED STONE		FINISH WOOD
	GYP, BOARD, PLASTER, OR CONCRETE IN PLAN AS NOTED		BATT INSULATION		WOOD FRAMING

PROJECT INFORMATION:

PROJECT DESCRIPTION:
A NEW 8,282 S.F. WELDING BUILDING AND AGRICULTURE FOR CLINTON HIGH SCHOOL.

MAIN CAMPUS ADDRESS:
CLINTON HIGH SCHOOL
425 DRAGON DRIVE
CLINTON, TN 37716

JURISDICTION:
CITY OF CLINTON, TN
CODES ENFORCEMENT
100 N. BOWLING STREET
CLINTON, TN 37716
PHONE NUMBER (865) 259-1107 OR (865) 259-1108

RESPONDING FIRE DEPARTMENT:
JEFF LITTLE, FIRE CHIEF
100 N. BOWLING STREET
CLINTON, TN 37716
PHONE: 865-457-2131
EMAIL: JLITTLE@CLINTONTN.NET

DESIGN CODES:
2018 INTERNATIONAL BUILDING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL CODE
2018 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE (ICC A117.12009)

TYPE OF CONSTRUCTION: II-B, SPRINKLERED.
OCCUPANCY: EDUCATIONAL
NUMBER OF STORIES: 1 STORY

IECC CLIMATE ZONE: 4A, CLINTON, TENNESSEE

STATE DESIGN CODES:
2012 INTERNATIONAL EXISTING BUILDING CODE
2012 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTER 11 AND SECTION 3411)
2017 NATIONAL ELECTRICAL CODE, NFPA 70
2012 INTERNATIONAL FIRE CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2012 NFPA - 101 LIFE SAFETY CODE

NOTE:
WHERE THERE IS A DISCREPANCY BETWEEN THE STATE AND LOCAL BUILDING CODES, THE MORE STRINGENT REQUIREMENT SHALL APPLY

PROJECT DIRECTORY:

OWNER: ANDERSON COUNTY DR. TIM PARROTT - DIRECTOR 101 S. MAIN ST. CLINTON, TN 37716 865-463-2800	STRUCTURAL ENGINEER: MBI COMPANIES INC. NICK DEAL 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999	MECHANICAL ENGINEER: MBI COMPANIES INC. JOHN BUCHANAN 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999
ARCHITECT: MBI COMPANIES INC. VALERIE NIPPER 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999	ELECTRICAL ENGINEER: VREELAND ENGINEERS INC. HAROLD DAMRON 3107 SUTHERLAND AVENUE KNOXVILLE, TN 37919 865-745-4402	CIVIL ENGINEER: MBI COMPANIES INC. AWS AL HADEETHI 299 N. WEISGARBER ROAD KNOXVILLE, TN 37919 865-584-0999
SURVEYING: MCGREW ENGINEERING & SURVEYING ALEX MCGREW 353 CULLOM ST., CLINTON, TN 37716 865-457-1664	GENERAL CONTRACTOR: GCE CONSTRUCTION TIMOTHY GAYLOR P.O. BOX 177 LAFOLLETTE, TN 37766 MOBILE: 423-494-1410 EMAIL: tim@gceco.net	

LIST OF DRAWINGS:

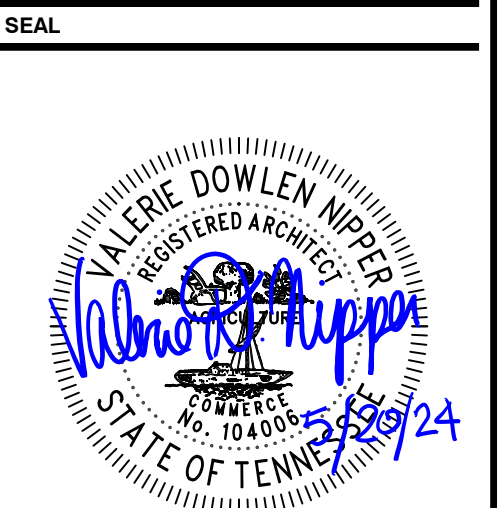
SHEET #	DRAWING TITLE	REV #
GENERAL		
G000	COVER SHEET	3
CIVIL AND SITE ENGINEERING		
C001	CIVIL NOTES AND LEGEND	
C002	OVERALL SITE PLAN	2
C100	PHASE 1 EROSION PREVENTION & SEDIMENT CONTROL PLAN	1
C101	PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN	2
C200	SITE DEMOLITION PLAN	1
C300	SITE LAYOUT & UTILITY PLAN	2
C400	SITE GRADING & DRAINAGE PLAN	2
C800	CIVIL DETAILS	
C801	CIVIL DETAILS	
C802	CIVIL DETAILS	
C803	CIVIL DETAILS	
L100	LANDSCAPE PLAN	2
ARCHITECTURAL		
A000	GENERAL NOTES AND ACCESSIBILITY DETAILS	
A001	LIFE SAFETY INFORMATION	3
A101	NOTED FLOOR PLANS	3
A102	DIMENSION FLOOR PLANS	
A201	DOOR SCHEDULE, DOOR/FRAME ELEVATIONS	1
A202	DOOR AND WINDOW DETAILS	1
A301	ROOF PLAN AND DETAILS	1
A401	EXTERIOR ELEVATIONS	3
A501	WALL SECTIONS	
A502	WALL SECTIONS	1
A601	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
A602	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
A603	ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS	1
A701	REFLECTED CEILING PLAN AND DETAILS	
A801	FLOOR FINISH PLAN	
STRUCTURAL ENGINEERING		
S001	STRUCTURAL NOTES	
S002	SPECIAL INSPECTIONS	
S003	TYPICAL FOUNDATION AND SLAB ON GRADE DETAILS	
S004	TYPICAL CMU DETAILS W/ HORIZONTAL JOINT REINFORCING	
S101	FOUNDATION PLAN	3
S501	FOUNDATION DETAILS	
S501A	FOUNDATION DETAILS - WALL FOOTINGS	
XS502	ROOF FRAMING DETAILS - WOOD TRUSS ON CMU BEARING WALL	
MECHANICAL		
FP001	FIRE PROTECTION LEGENDS, SPECIFICATIONS, AND NOTES	
FP101	FLOOR PLAN - FIRE PROTECTION	1
FP201	FIRE PROTECTION DETAILS	
FP202	FIRE PROTECTION DETAILS	
M001	HVAC LEGENDS, SPECIFICATIONS, AND NOTES	
M101	FLOOR PLAN - HVAC	1
M201	HVAC SCHEDULES	
M301	HVAC DETAILS	1
P001	PLUMBING LEGEND AND NOTES	
P101	FLOOR PLAN - SANITARY	
P102	FLOOR PLAN - WATER	1
P103	ENLARGED BATHROOM PLAN	
P201	PLUMBING SCHEDULES	
P301	PLUMBING DETAILS	1
ELECTRICAL ENGINEERING		
E101	FIRST FLOOR PLAN - LIGHTING	3
E102	FIRST FLOOR PLAN - POWER	1
E103	FIRST FLOOR PLAN - COMMUNICATION	1
E104	FIRST FLOOR PLAN - FIRE ALARM AND HVAC WIRING	1
E201	LEGEND, SCHEDULES, DETAILS	1
E202	PANELBOARD SCHEDULES, FEEDER DIAGRAM	1
E203	DETAILS	1
Grand total: 57		

MBI

MBI COMPANIES INC.
299 N. WEISGARBER ROAD
KNOXVILLE, TN 37919

PHONE: (865) 584-0999
FAX: (865) 584-5213
WEB: mbicompanies.com

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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
3	05.20.2024	REVISION #3

KEY PLAN

SHEET INFORMATION

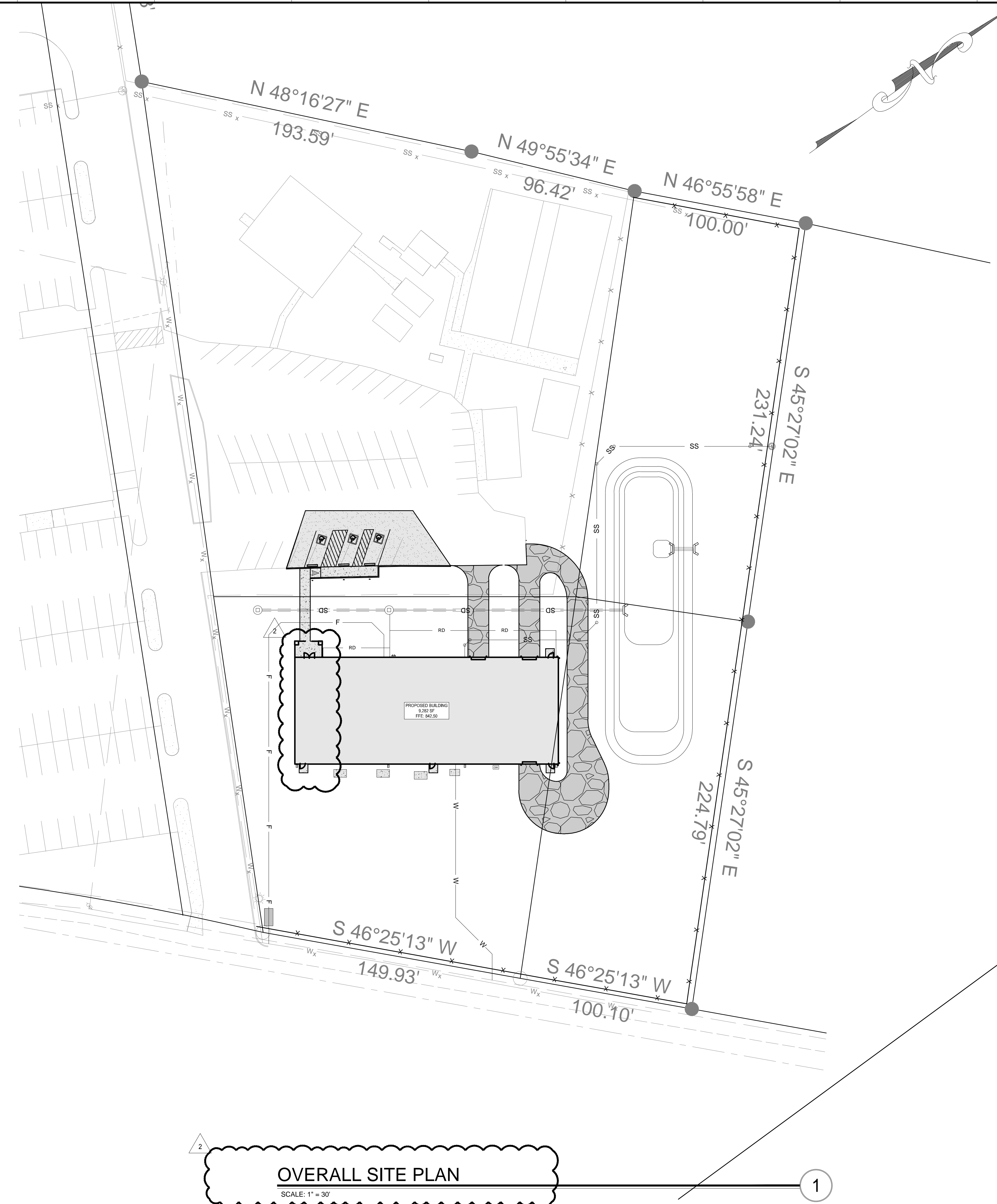
SHEET ISSUED: 10/06/2023
DESIGNED BY: CMG
DRAWN BY: MDC
REVIEWED BY: CMG
SHEET TITLE:

TFM # 00017-D
PROJECT # 2023-10-31-01

CIVIL: 	STRUCTURAL: 	MECHANICAL: 	ELECTRICAL:
-------------------	------------------------	------------------------	------------------------

COVER SHEET
SHEET NO.: G000

R:\Revit\Projects\2023\220042_Anderson County Schools\220042-02_Clinton High School Welding Building\03_Civil\03_CAD\03_220042-02_CB.dwg, 3/20/2024 7:20:09 AM



OVERALL SITE PLAN
SCALE: 1" = 30'

GENERAL SHEET NOTES:
1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

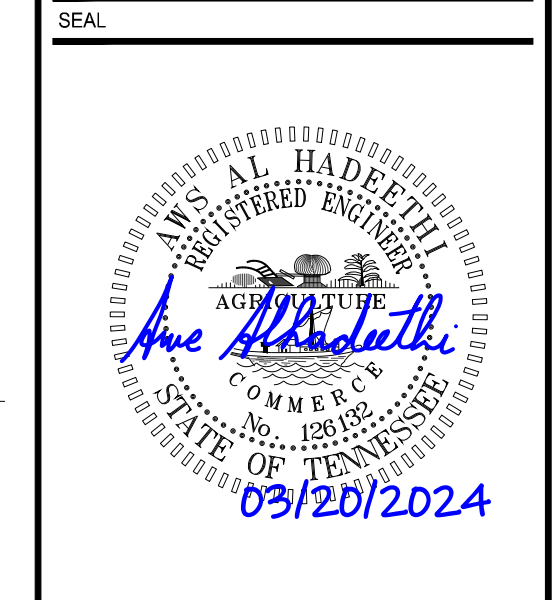
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WEB: mbccompanies.com

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

- ACTIVE DESIGN PHASE
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 - SCHEMATIC DESIGN
 - DESIGN DEVELOPMENT
 - CONSTRUCTION BIDDING
 - CONSTRUCTION DOCUMENTS
 - AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	
2	03/20/2024	SFMO REVIEW COMMENTS

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: I.A.J.

DRAWN BY: I.A.J.

REVIEWED BY: A.M.A.

SHEET TITLE:

OVERALL SITE PLAN

SHEET NO.: C002

811 Know what's below.
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In Tennessee call 811 or 1-800-351-1111

GRAPHIC SCALE

1 INCH = 30'

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D



GENERAL SHEET NOTES

- SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
- TEMPORARY STABILIZATION IS REQUIRED WHEN GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND ON SOIL STOCKPILES. SEED AREAS THAT SHOW SIGNS OF EXCESSIVE EROSION.
- CONSTRUCTION LIMITS SHALL BE CLEARLY MARKED IN THE FIELD.

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

EROSION CONTROL LEGEND

- SF SILT FENCE; SEE DETAIL 3/C800
- CONSTRUCTION EXIT; SEE DETAIL 1/C800

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PROJECT INFORMATION

PROJECT:

CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS:
 411 DOUGLAS LN.
 CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
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- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	

KEY PLAN

SHEET INFORMATION

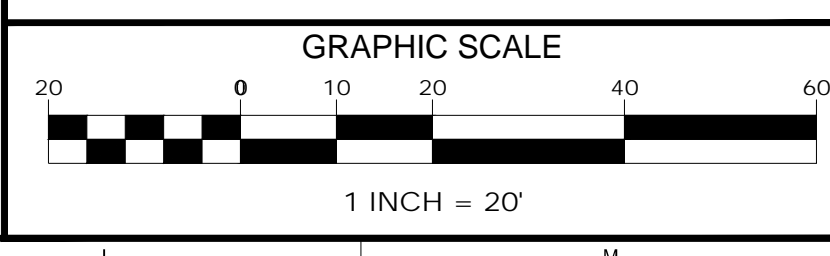
SHEET ISSUED: 10/06/2023
 DESIGNED BY: I.A.J.
 DRAWN BY: I.A.J.
 REVIEWED BY: A.M.A.
 SHEET TITLE:

PHASE 1 EROSION PREVENTION & SEDIMENT CONTROL PLAN

SHEET NO.: C100



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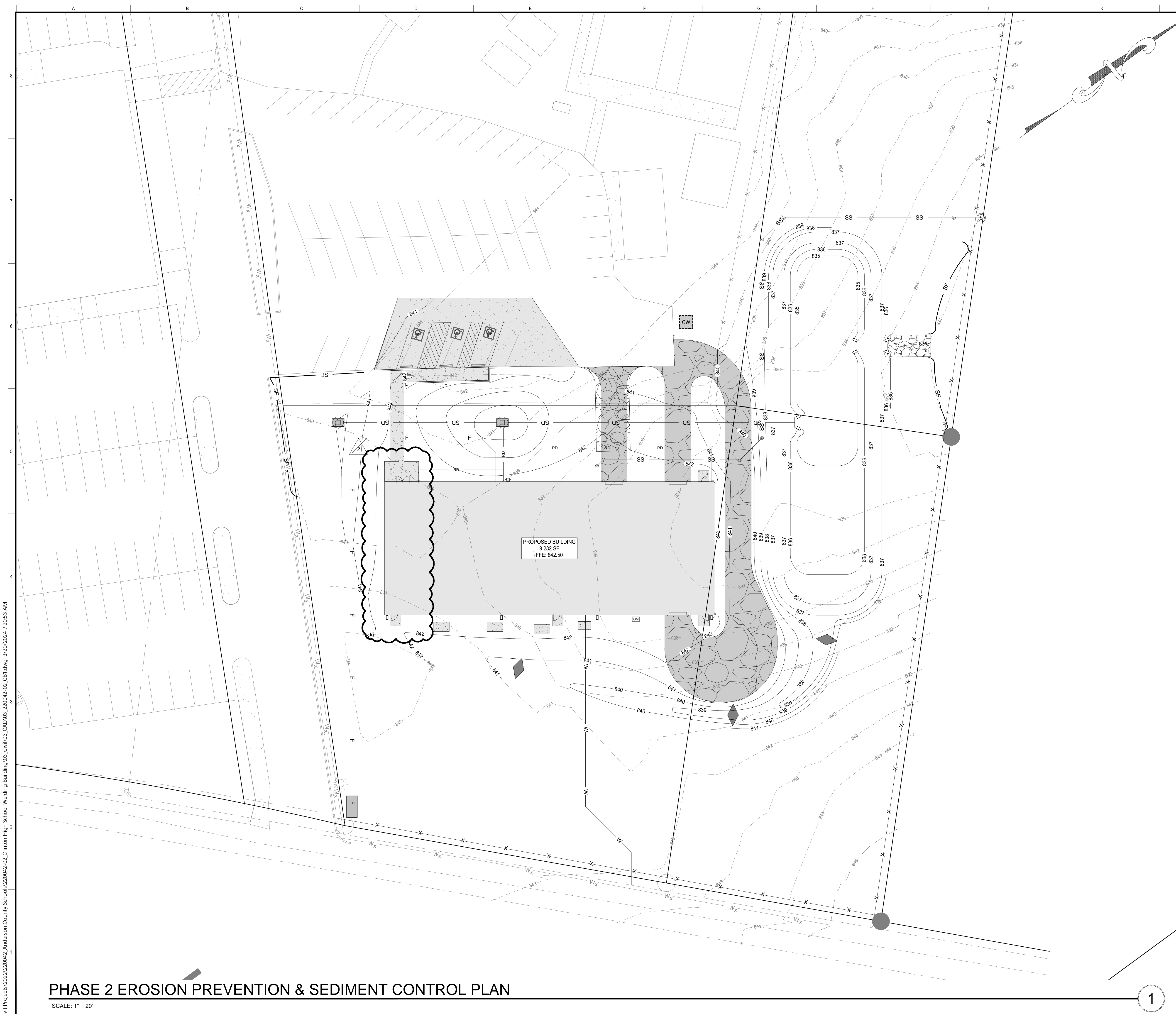


PHASE 1 EROSION PREVENTION & SEDIMENT CONTROL PLAN

SCALE: 1" = 20'

1

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D



GENERAL SHEET NOTES:

- SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
- PERMANENT STABILIZATION IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETED AND WHEN CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. SEED AREAS THAT SHOW EVIDENCE OF EXCESSIVE EROSION.
- CONSTRUCTION LIMITS SHALL BE CLEARLY MARKED IN THE FIELD.
- SLOPE MATTING SHALL BE PLACED ON ALL SLOPES GREATER THAN 2:1; SEE DETAIL 2/C800

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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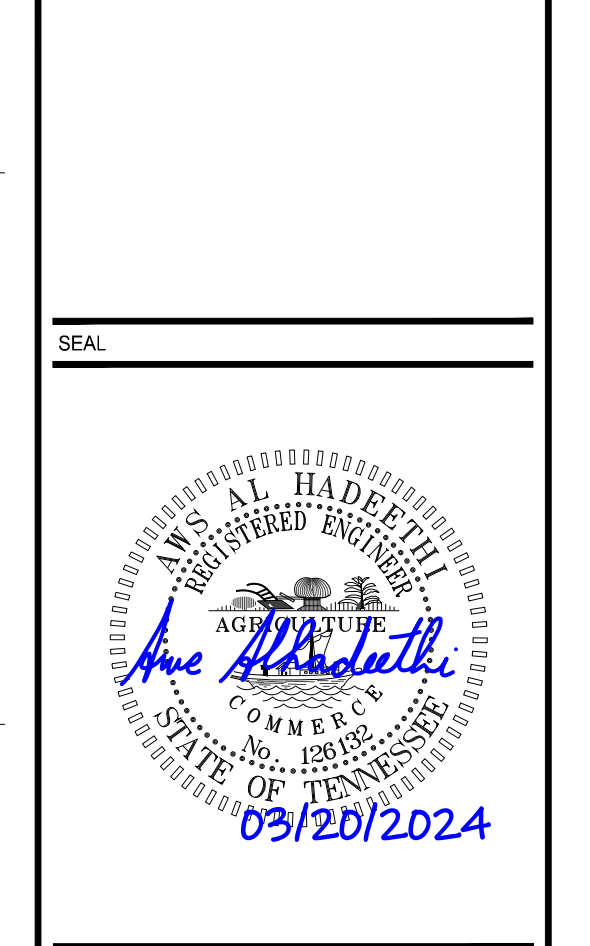
EROSION CONTROL LEGEND

	SILT FENCE; SEE DETAIL 3/C800
	CONSTRUCTION MATTING; SEE DETAIL 1/C800
	INLET PROTECTION; SEE DETAIL 4/C800
	CHECK DAM; SEE DETAIL 6/C800
	15' L x 8' W x 1.5' D CLASS A-1 RIP RAP OUTLET PROTECTION
	CONCRETE WASHOUT; SEE DETAIL 5/C800

299 N. WEISGARDER ROAD
KNOXVILLE, TN 37919

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FAX: (865) 584-5213
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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	SCHEMATIC DESIGN
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<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	
2	03/20/2024	SFMO REVIEW COMMENTS

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: I.A.J.
DRAWN BY: I.A.J.
REVIEWED BY: A.M.A.
SHEET TITLE:

PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN

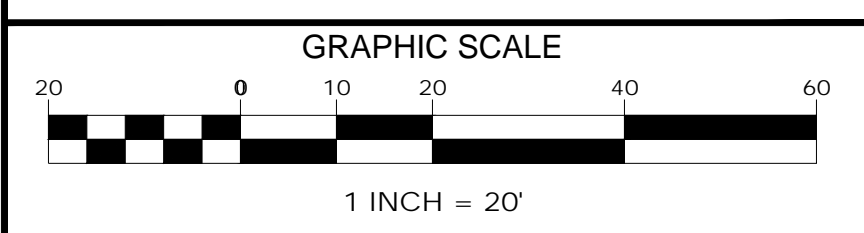
SHEET NO.: C101

PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN

SCALE: 1" = 20'



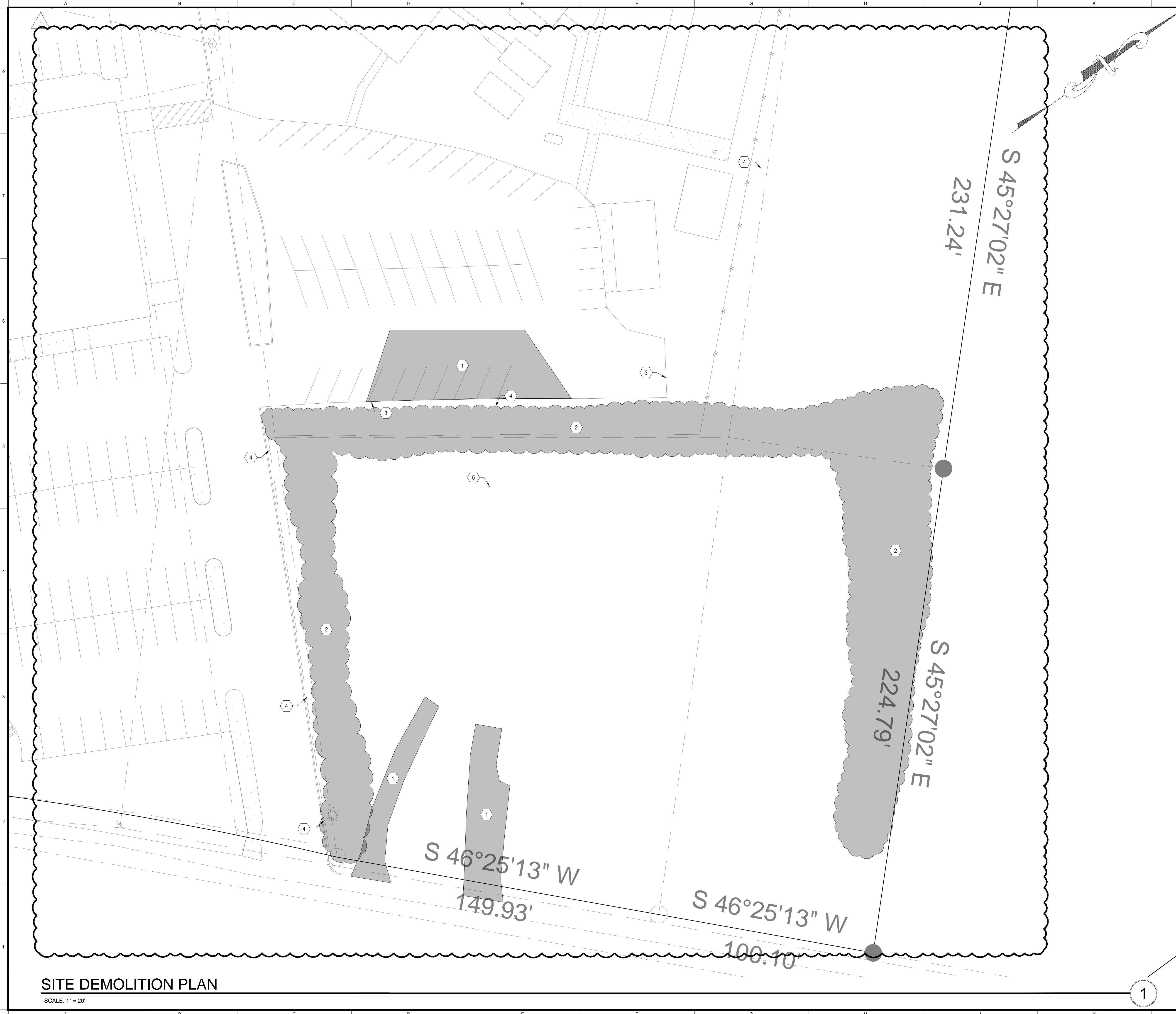
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1

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D

R:\Revit\Projects\2022\220042-Anderson County Schools\220042-02_Clinton High School Welding Building\03_Civil\03_CAD\03_220042-02_CB.dwg, 3/20/2024 7:20:53 AM



GENERAL SHEET NOTES:
 1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

DEMOLITION LEGEND

TO BE DEMOLISHED

DEMOLITION KEYED NOTES

- 1 EXISTING ASPHALT/CONCRETE PAVING TO BE DEMOLISHED
- 2 EXISTING VEGETATION TO BE DEMOLISHED
- 3 EXISTING CONCRETE CURB TO BE DEMOLISHED
- 4 EXISTING CHAIN LINK FENCE WITH BARBED WIRE TO BE DEMOLISHED
- 5 EXISTING UTILITY POLE TO BE DEMOLISHED

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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TENNESSEE STATE FIRE MARSHAL'S OFFICE
 299 N. WEISGARDER ROAD
 KNOXVILLE, TN 37919
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING
 PROJECT ADDRESS:
 411 DOUGLAS LN.
 CLINTON, TN 37716
 PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: I.A.J.
 DRAWN BY: I.A.J.
 REVIEWED BY: A.M.A.
 SHEET TITLE:

811 Know what's below.
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GRAPHIC SCALE
 20 0 10 20 40 60
 1 INCH = 20'

SITE DEMOLITION PLAN
 SHEET NO.: C200

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D

SITE DEMOLITION PLAN
 SCALE: 1" = 20'

1

CERTIFICATE OF PLANNED UNIT DEVELOPMENT APPROVAL

We hereby certify that this Planned Unit Development (PUD) has been found to comply with the zoning and PUD regulations of the Clinton Municipal/Regional Planning Commission, with the exception of such alterations or variances, if any, as noted in the minutes of the Clinton Municipal/Regional Planning Commission and the Clinton Board of Zoning Appeals.

Date _____ Chairman Clinton Municipal/Regional Planning Commission

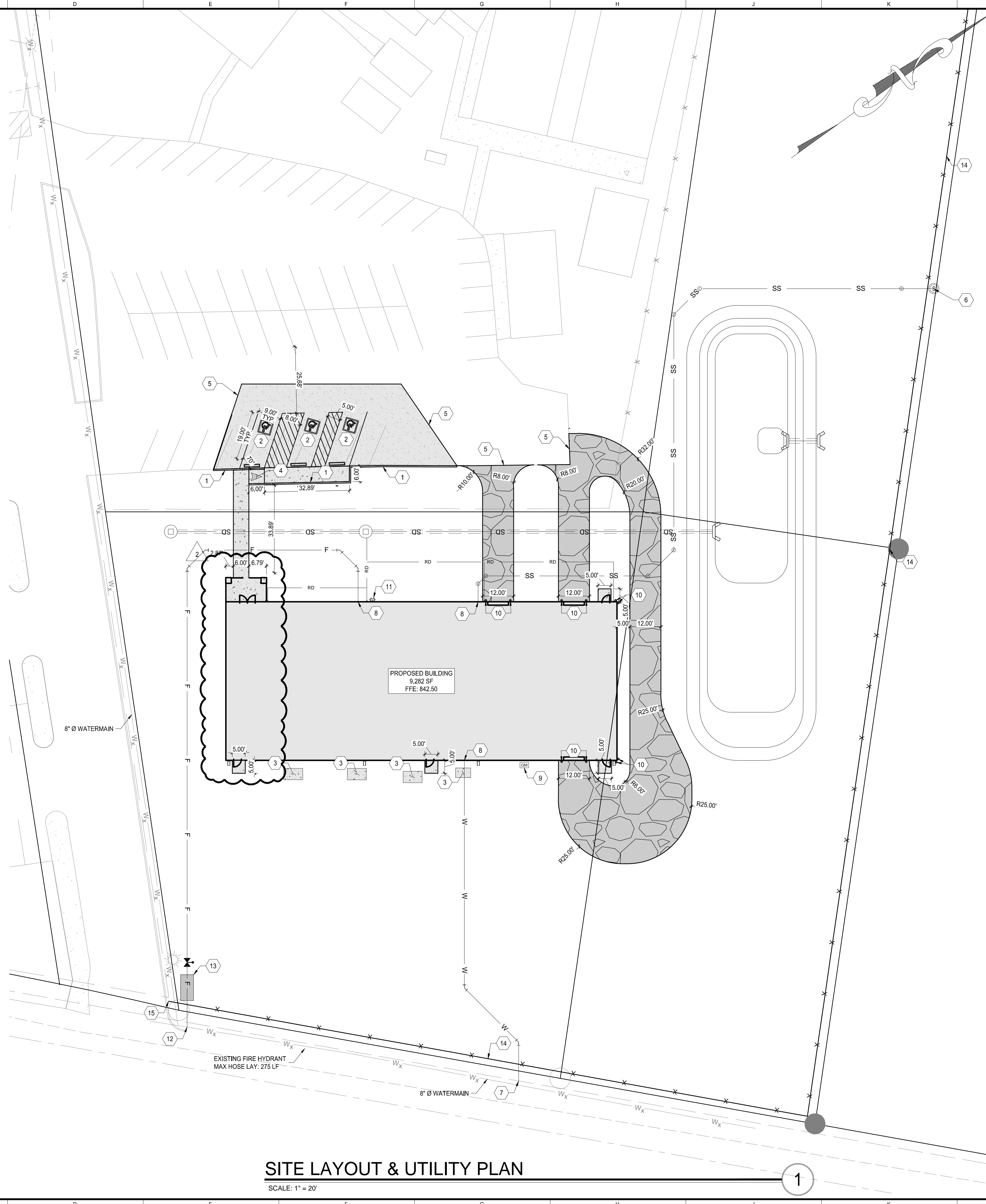
Date _____ Secretary Clinton Municipal/Regional Planning Commission

CERTIFICATE OF PUD APPLICATION AND AGREEMENT

I (we) hereby certify that I (we) understand that the approval of a Planned Unit Development (PUD) shall expire twelve (12) months after the date of approval.

Date _____ Applicant _____

Date _____ Applicant _____



SITE LAYOUT & UTILITY PLAN

SCALE: 1" = 20'

1

GENERAL SHEET NOTES:

- SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
- FOR TYPICAL ANGLED PARKING SPACE LAYOUT SEE 7/C801
- ALL RADII NOT LABELED ARE TO BE R3.00'
- COORDINATE ALL UTILITY CROSSINGS; SEE DETAIL 5/C801
- FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. DETERMINE LOCATED SIZE, MATERIAL & INVERTS. REPORT ANY DISCREPANCIES TO OWNER & ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION & INSTALLATION.
- ALL POURED CONCRETE SHALL BE CONSTRUCTED WITH EXPANSION JOINTS; SEE DETAIL 4/C801

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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TENNESSEE STATE FIRE MARSHAL'S OFFICE
299 N. WEISBARGER ROAD
KNOXVILLE, TN 37919

UTILITY CONTACTS

<p>WATER CLINTON UTILITY BOARD 1001 CHARLES G. SEIVERS BLVD., P.O. BOX 296 CLINTON, TN 37717 (865) 457-9232</p>	<p>SEWER CLINTON UTILITY BOARD 1001 CHARLES G. SEIVERS BLVD., P.O. BOX 296 CLINTON, TN 37717 (865) 457-9232</p>
<p>GAS POWELL CLUNCH UTILITY DISTRICT 203 E. FIRST ST. ROCKY TOP, TN 37789 (865) 426-2822</p>	<p>ELECTRIC CLINTON UTILITY BOARD 1001 CHARLES G. SEIVERS BLVD., P.O. BOX 296 CLINTON, TN 37717 (865) 457-9232</p>

SHEET LEGEND

- HEAVY DUTY ASPHALT PAVING; SEE DETAIL 2/C801
- 6" CRUSHER RUN
- CONCRETE SIDEWALK; SEE DETAIL 1/C801
- ADA COMPLIANT 'NO PARKING' STRIPING; 8/C800
- WATER METER BY LOCAL UTILITY
- CO-CLEANOUT; SEE DETAIL 4/C802
- C.U.B. TYPICAL SANITARY SEWER MANHOLE; SEE DETAIL 1/C803
- 6" DUCTILE IRON C900 FIRE PROTECTION SERVICE LINE; SEE DETAIL 2/C802
- 2" POTABLE WATER (PVC CLASS 200); SEE DETAIL 2/C802
- 4" ASTM D3034 SDR35 PVC BUILDING SANITARY SEWER SERVICE LINE @ 2.0% MIN. SLOPE; SEE DETAIL 2/C802
- THRUST BLOCK; SEE DETAIL 2/C803
- POST INDICATOR VALVE; SEE DETAIL 9/C802

SHEET KEYED NOTES

- 1 CONCRETE CURB; SEE DETAIL 3/C801
- 2 ADA COMPLIANT PARKING SPACE; SEE DETAIL 7/C801
- 3 MECHANICAL UNITS; SEE MECHANICAL PLANS FOR DETAILS
- 4 ADA COMPLIANT RAMP; SEE DETAIL 6/C801
- 5 PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE
- 6 FIELD LOCATE AND CONNECT TO EXISTING PER LOCAL UTILITY REQUIREMENTS.
- 7 WATER LINE CONNECTION TO EXISTING METER; COORDINATE WITH LOCAL UTILITY COMPANY.
- 8 FOR CONTINUATION SEE PLUMBING PLAN
- 9 GAS METER; SEE MECHANICAL PLANS FOR DETAILS; COORDINATE INSTALLATION WITH LOCAL UTILITY COMPANY.
- 10 6" BOLLARD; SEE DETAIL 5/C801
- 11 FIRE DEPARTMENT CONNECTION; SEE MECHANICAL PLANS FOR DETAILS
- 12 FIRE SERVICE LINE CONNECTION BY LOCAL UTILITY COMPANY. COORDINATE TAP & METER LOCATIONS.
- 13 FIRE LINE METER PIT; TO BE INSTALLED PER LOCAL UTILITY REQUIREMENTS
- 14 CHAIN LINK FENCE WITH BARBED WIRE SHALL ENCOMPASS ENTIRE PROPERTY; MATCH EXISTING HEIGHT; SEE DETAIL 3/C803
- 15 CHAIN LINK FENCE TO CONNECT TO EXISTING FENCE POST

AREAS & CALCULATIONS

IMPERVIOUS AREA		
EXISTING	PROPOSED	TOTAL INCREASE
0.15 Acres	0.34 Acres	0.19 Acres
6,354 sqft	14,867 sqft	8,513 sqft

DISTURBED AREA	
TOTAL SITE AREA	DISTURBED AREA
1.89 Acres	0.98 Acres
82,256 sqft	42,689 sqft

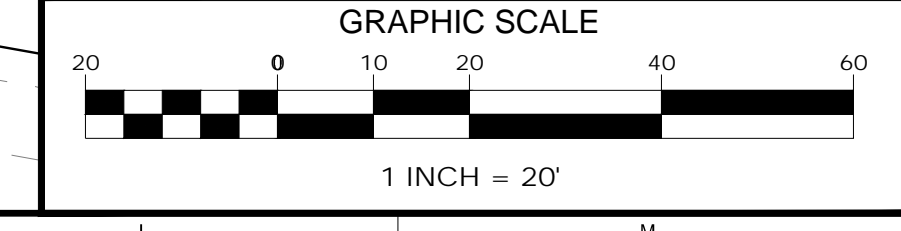
PARKING CALCULATION

REQUIREMENT:
1 SPACE PER EACH FACULTY MEMBER AND 5 ADDITIONAL SPACES FOR VISITOR PARKING, PLUS 1 SPACE FOR EACH 4 PUPILS

CALCULATION:
5 FACULTY: 1 x 5 = 5 SPACES
60 PUPILS: 60 / 4 = 15 SPACES
5 VISITOR SPACES

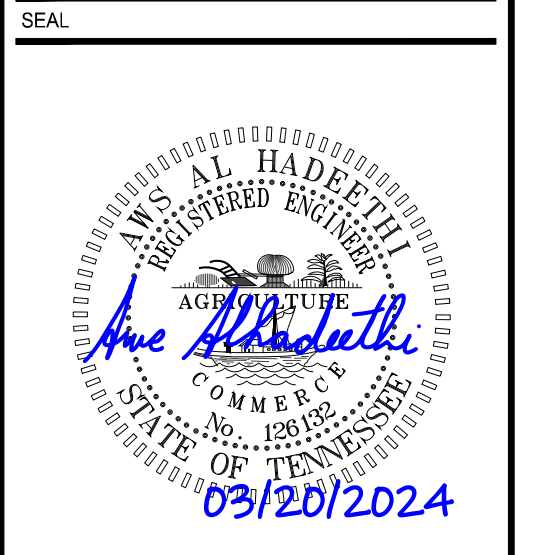
	REQUIRED	PROVIDED
REGULAR ACCESSIBLE	24	40
TOTAL	01	03
	25	43

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	
02	03/20/2024	SFMO REVIEW COMMENTS

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: I.A.J.
DRAWN BY: I.A.J.
REVIEWED BY: A.M.A.
SHEET TITLE:

SITE LAYOUT & UTILITY PLAN

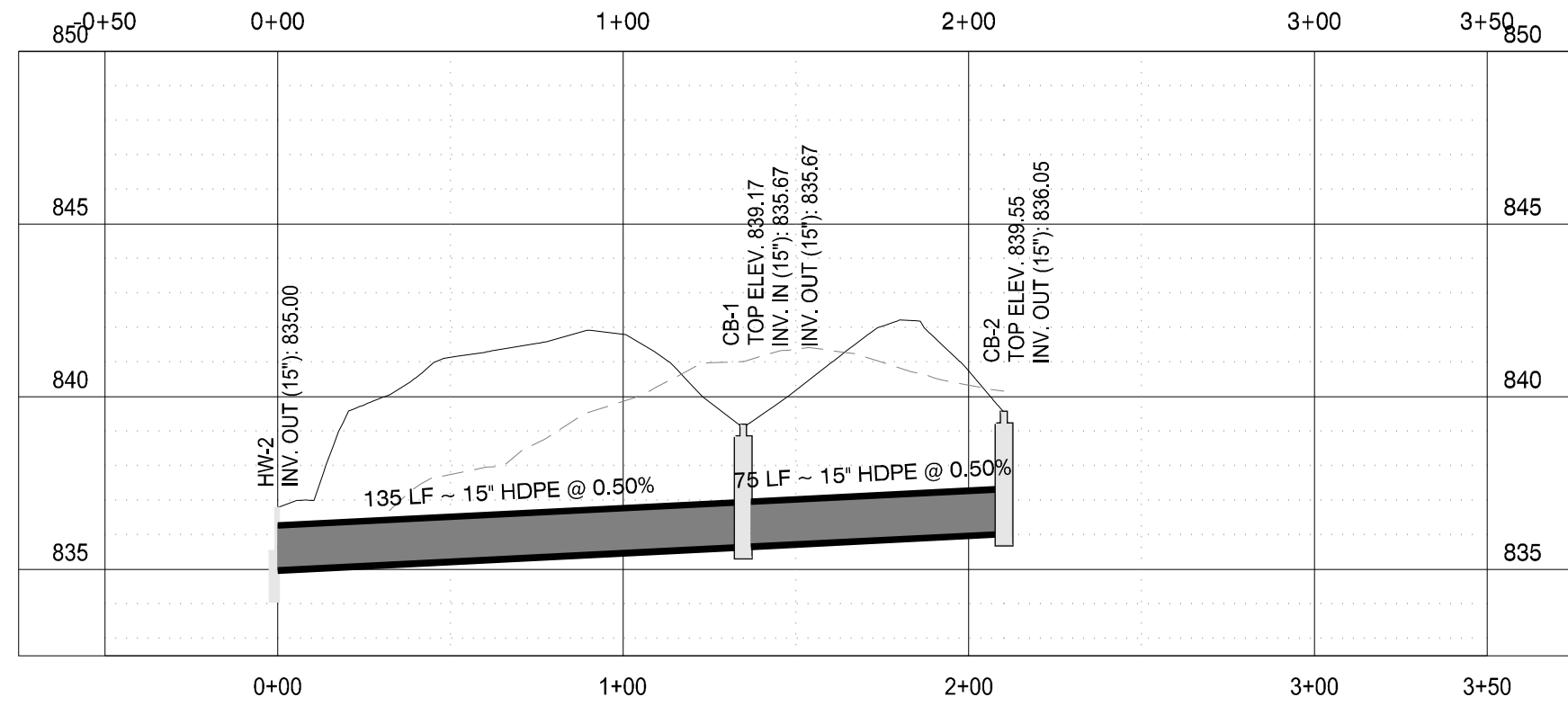
SHEET NO.: C300

TFM # 00017-D

PROJECT # 2023-10-31-01

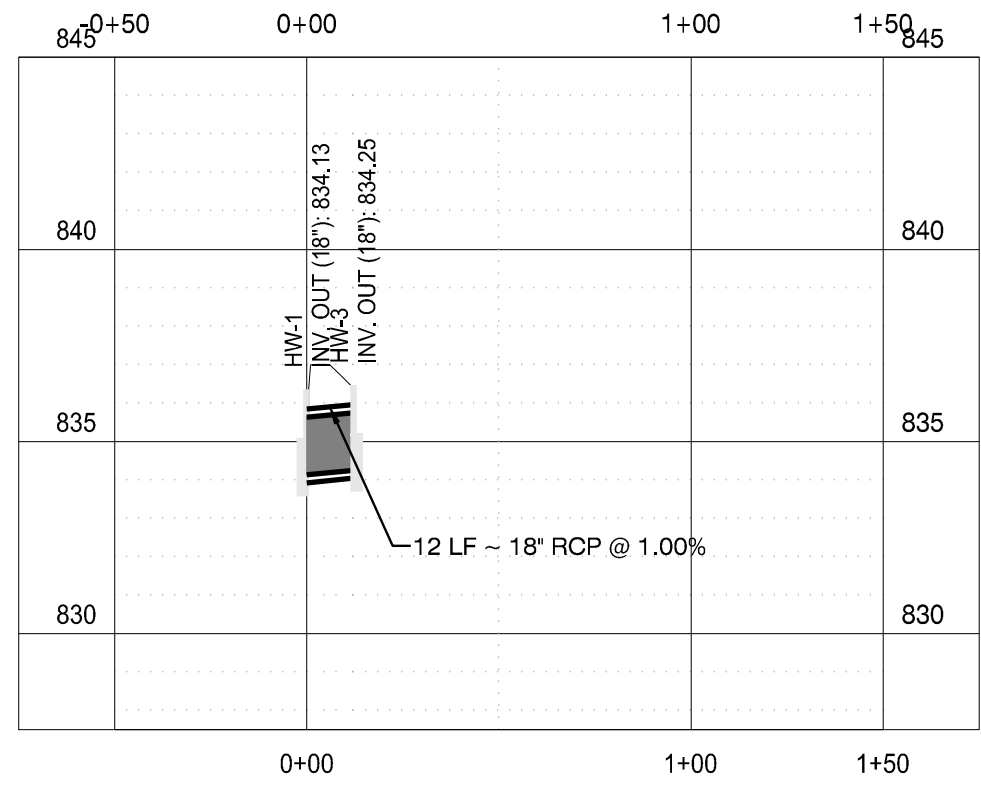
FIELD SET

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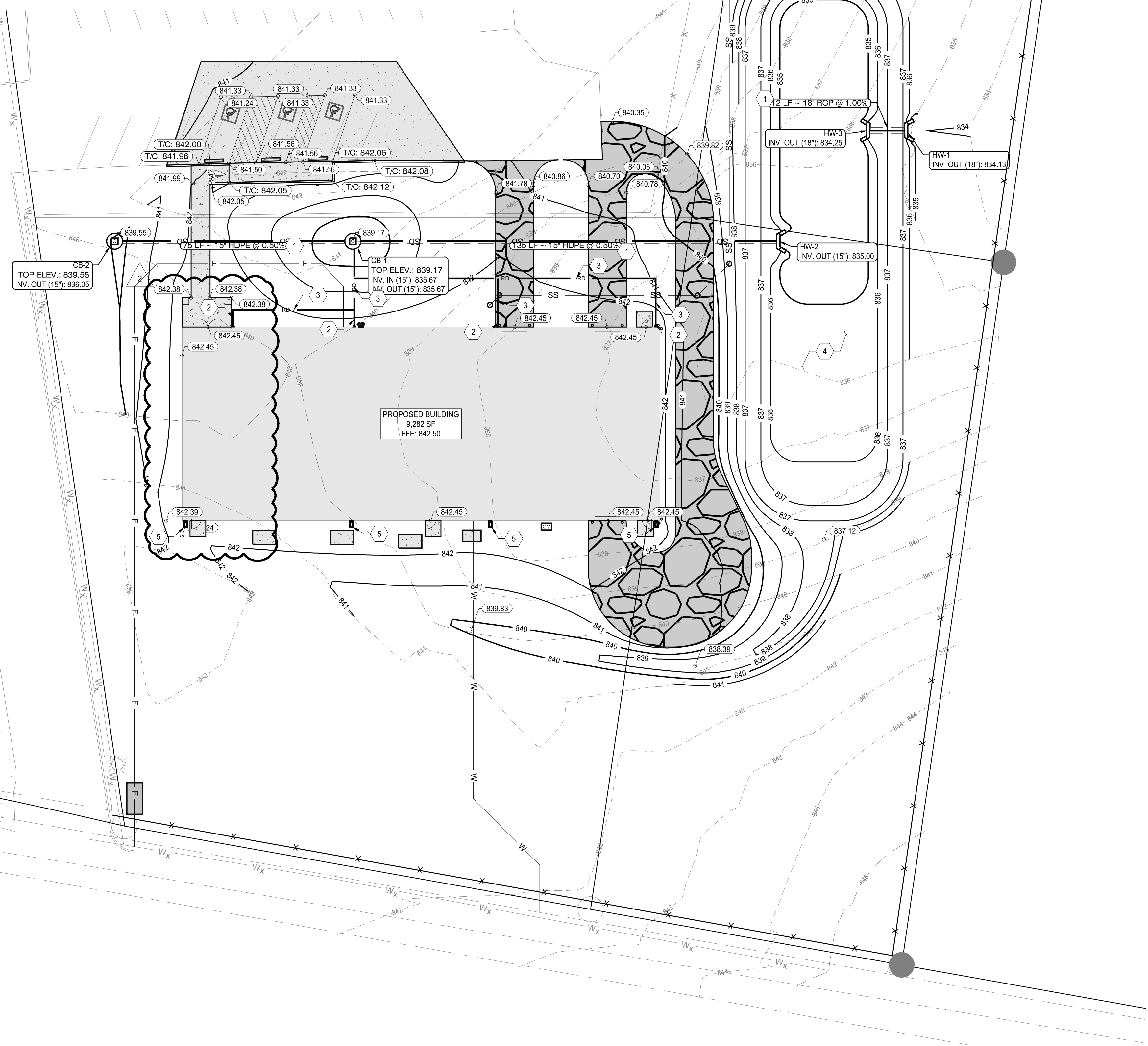
STORM LINE #1

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"



STORM LINE #2

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"



SITE GRADING & DRAINAGE PLAN

SCALE: 1" = 20'

GENERAL SHEET NOTES

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

DRAINAGE LEGEND

- HW-HEADWALL
- CB-CATCH BASIN; SEE DETAIL 3/C802

PROFILE LEGEND

- EXISTING GRADE
- PROPOSED GRADE

DRAINAGE KEYED NOTES

- 1 STORM SEWER DRAINAGE PIPE & UTILITY TRENCH; SEE DETAIL 1/C802
- 2 DOWNSPOUT BOOT; SEE DETAIL 6/C802
- 3 ASTM D 3034 SDR35 PVC STORM DRAIN @ 1.0% MIN. SLOPE; ALL SIZES TO BE 8" UNLESS OTHERWISE NOTED
- 4 DETENTION POND; SEE DETAIL 8/C802
- 5 SPLASH BLOCK; SEE DETAIL 7/C802

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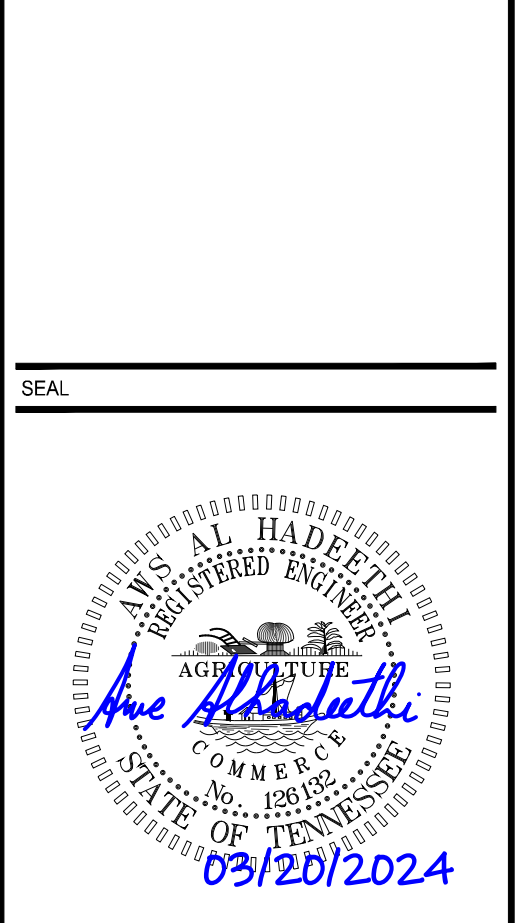
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PROJECT INFORMATION

PROJECT:

CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS:

411 DOUGLAS LN.
CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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2	03/20/2024	SFMO REVIEW COMMENTS

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: I.A.J.

DRAWN BY: I.A.J.

REVIEWED BY: A.M.A.

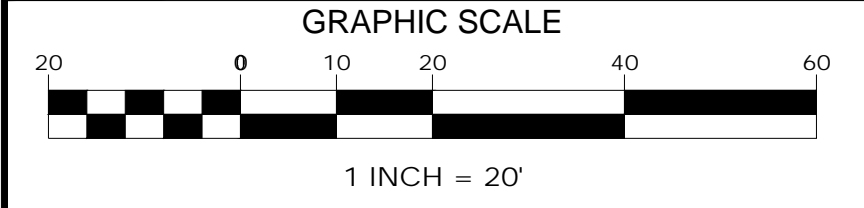
SHEET TITLE:

SITE GRADING & DRAINAGE PLAN

SHEET NO.: C400



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TFM # 00017-D

PROJECT # 2023-10-31-01

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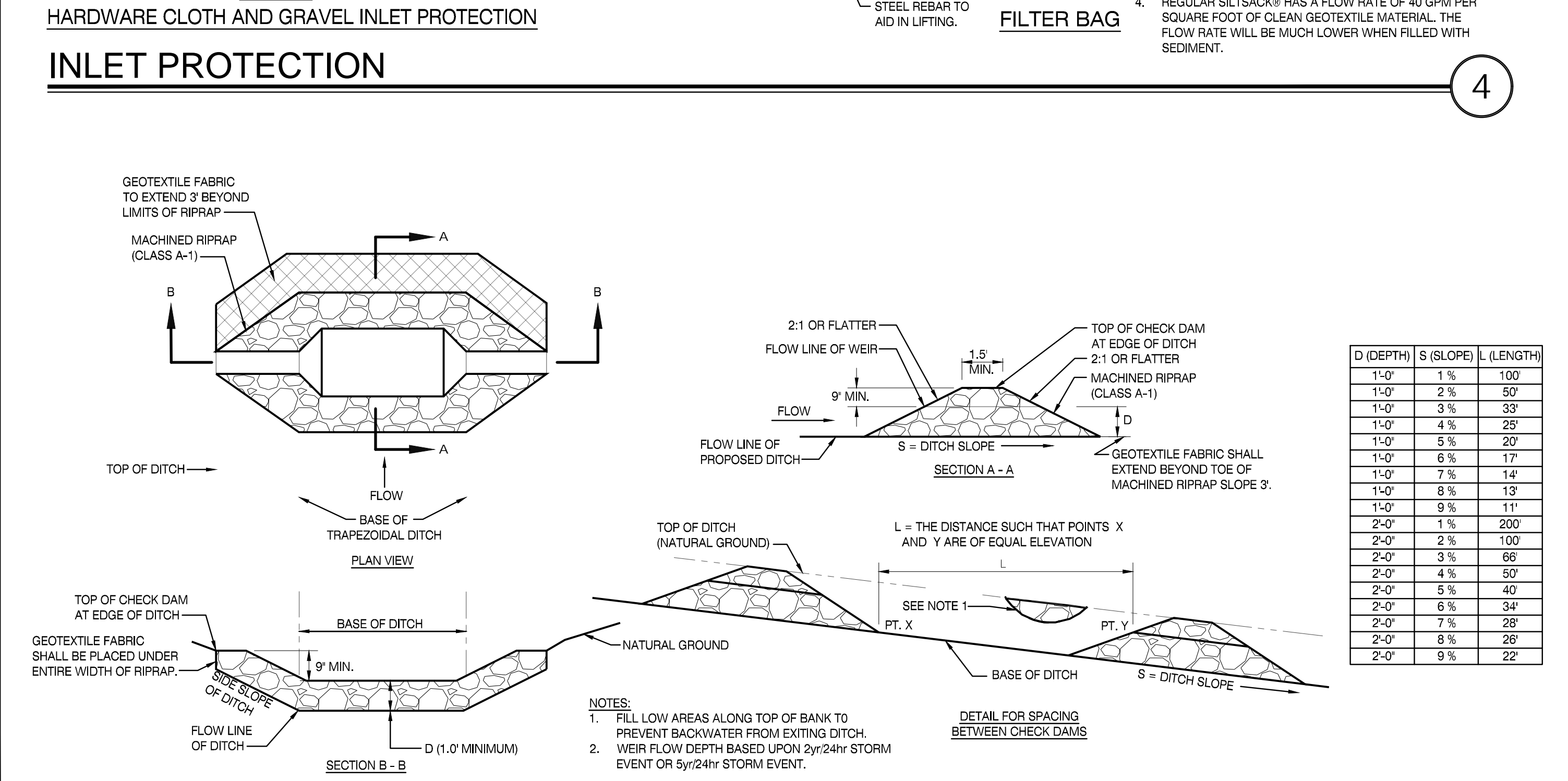
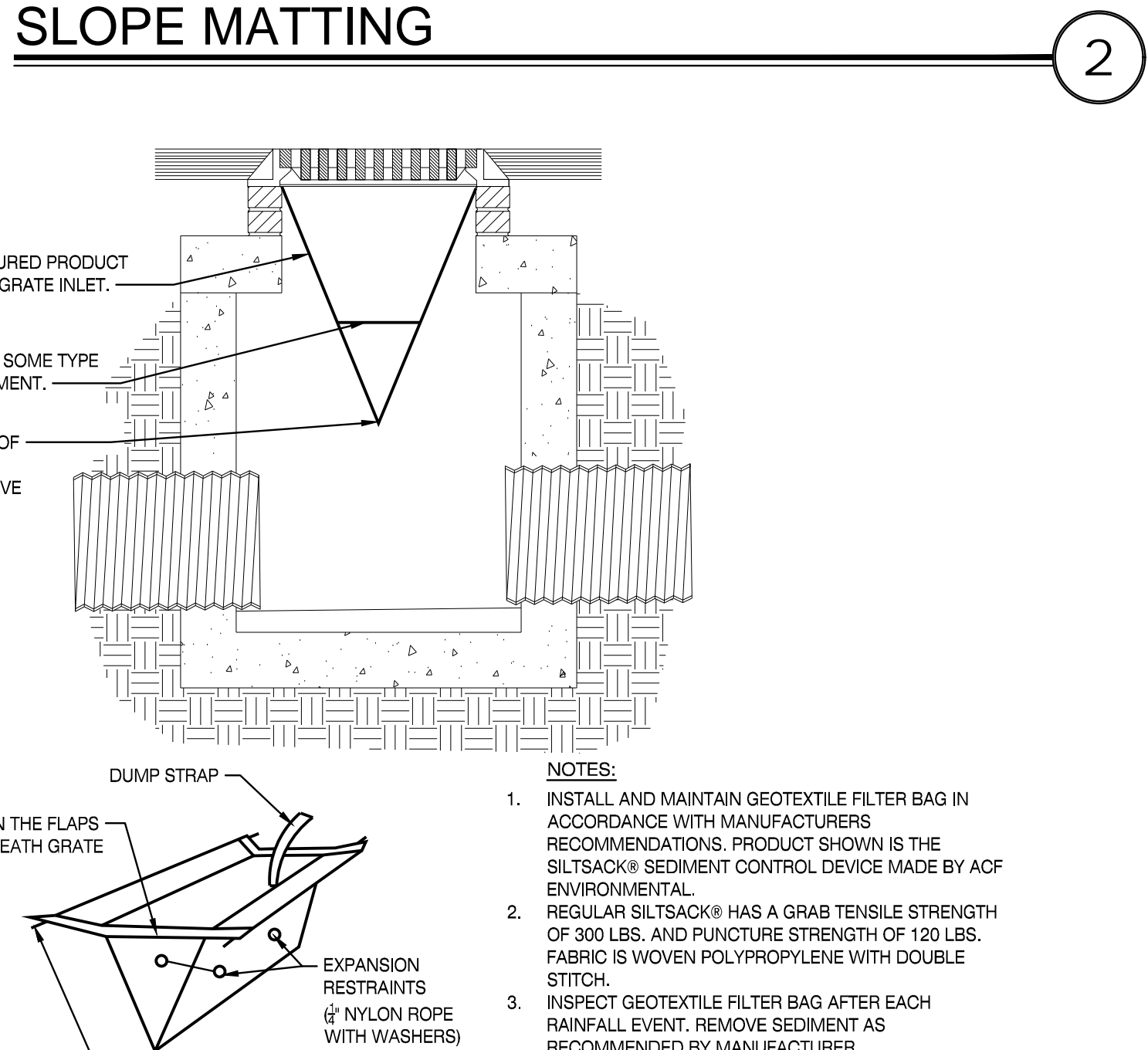
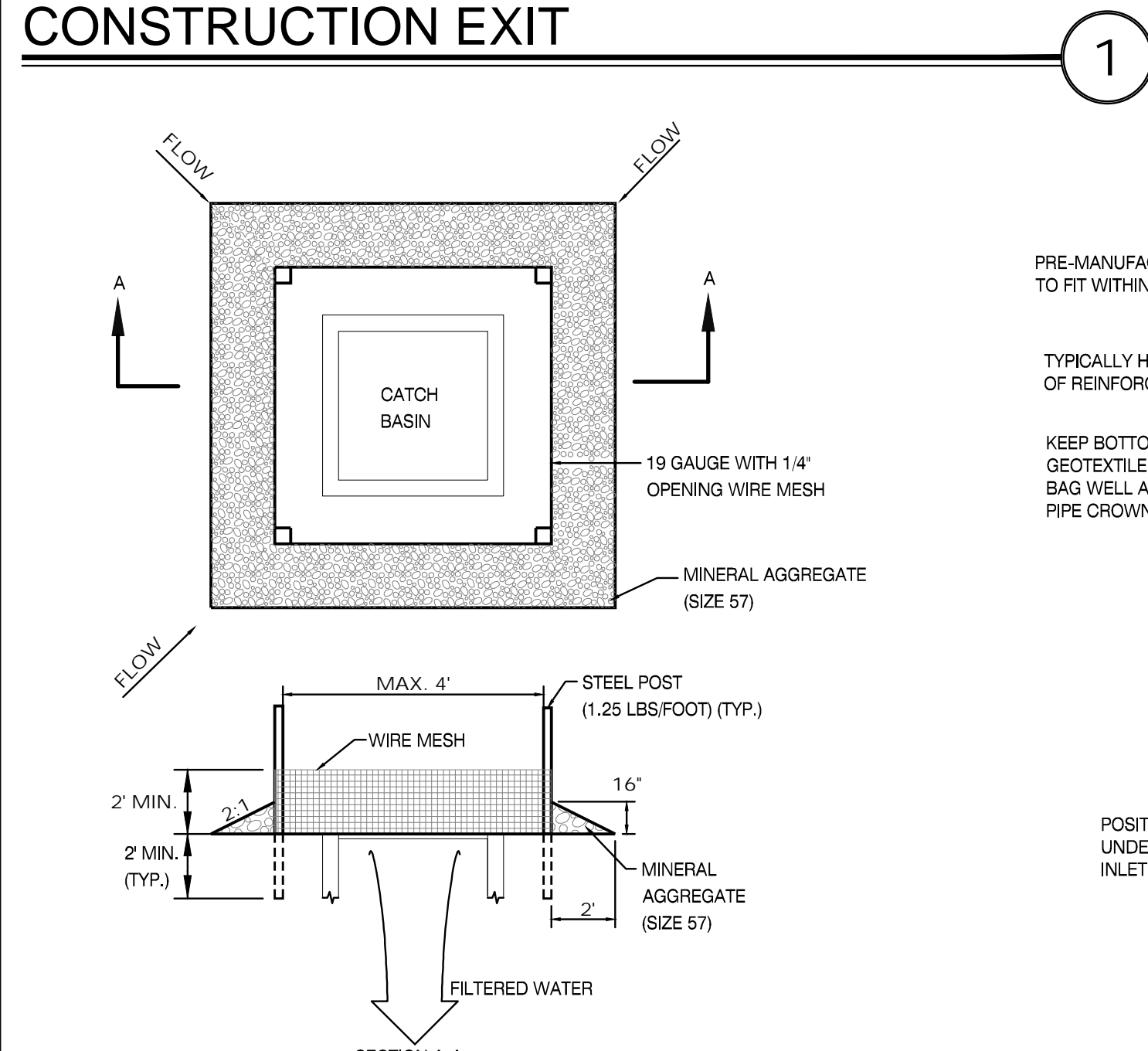
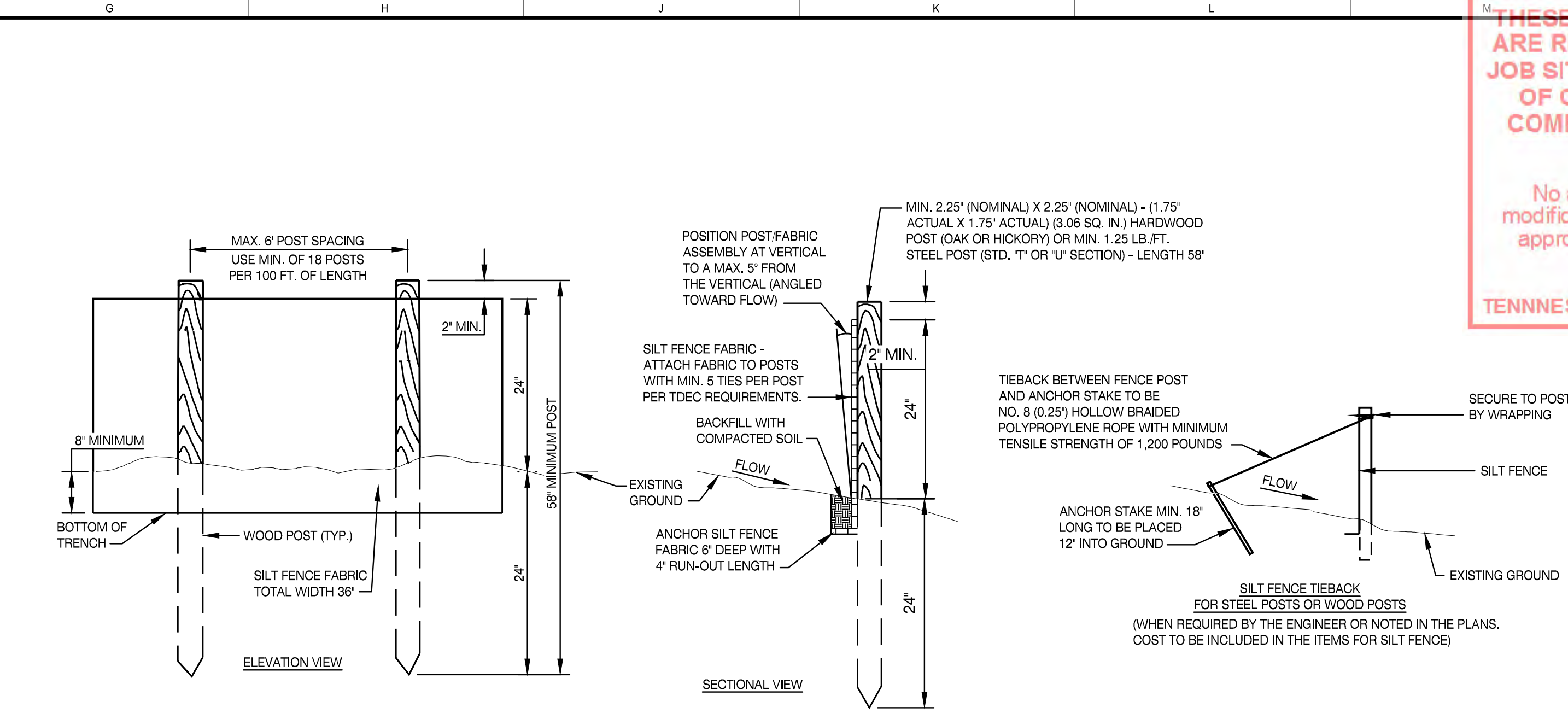
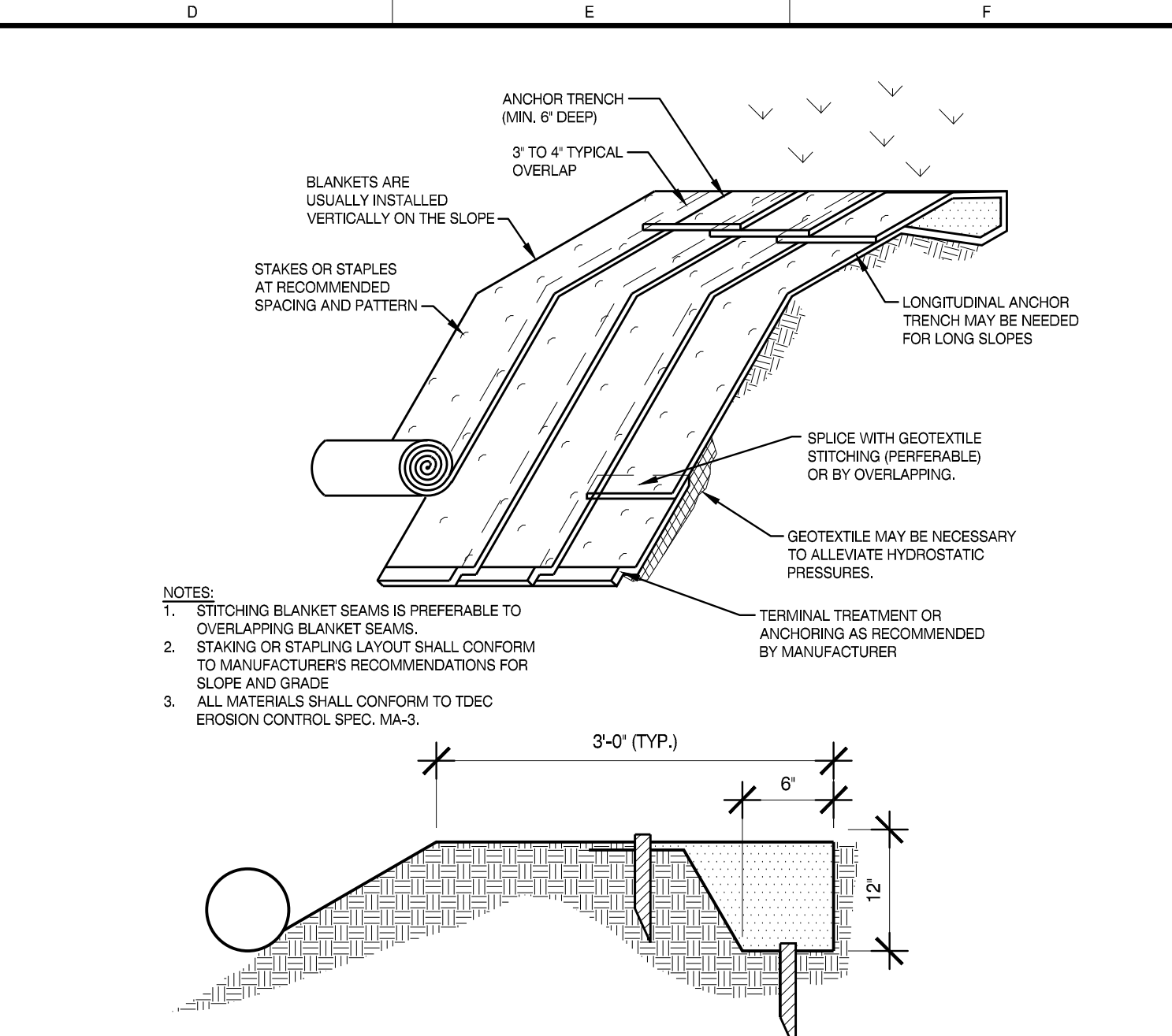
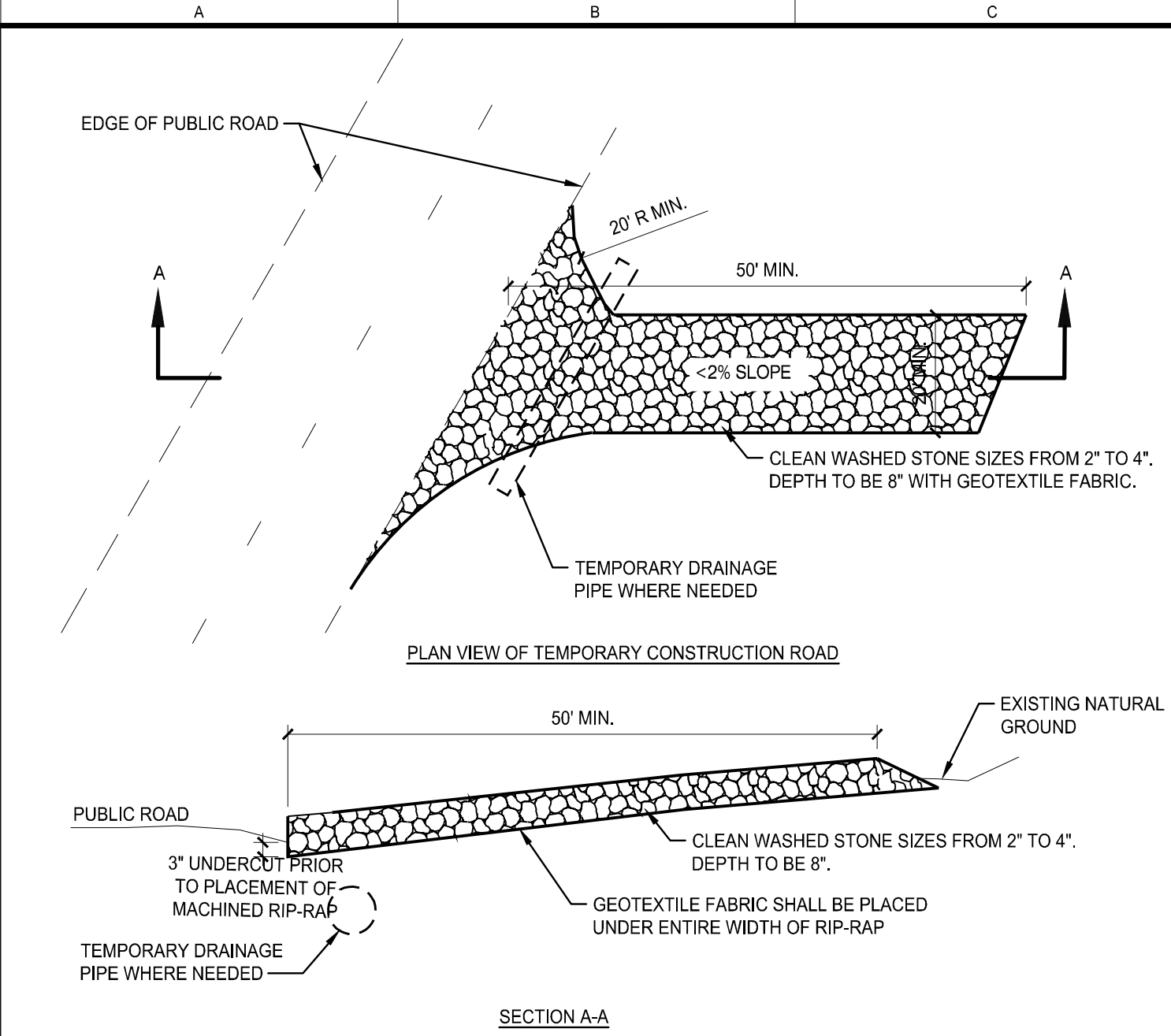
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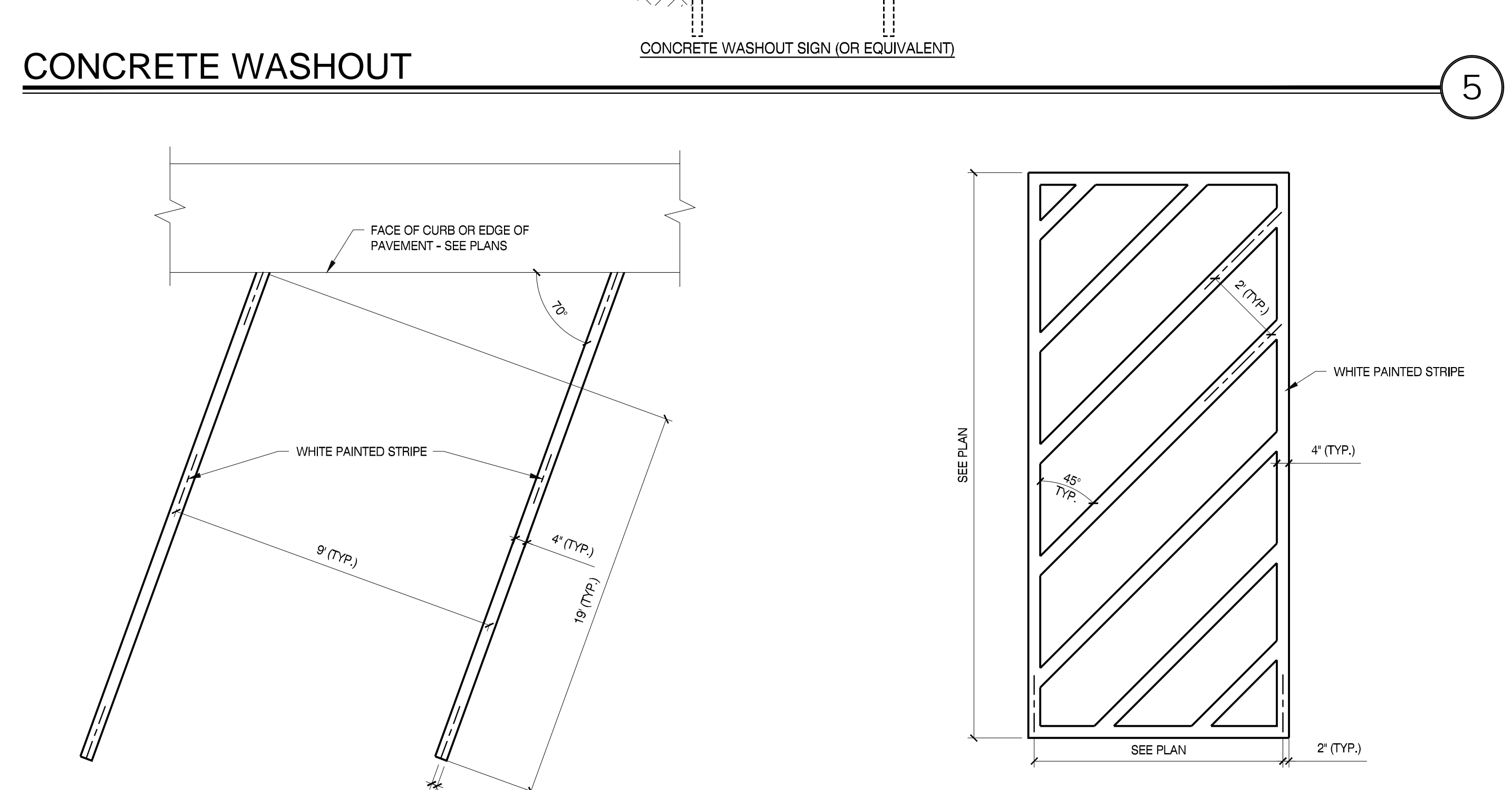
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WEB: mbccompanies.com



D (DEPTH)	S (SLOPE)	L (LENGTH)
1'-0"	1%	100'
1'-0"	2%	50'
1'-0"	3%	33'
1'-0"	4%	25'
1'-0"	5%	20'
1'-0"	6%	17'
1'-0"	7%	14'
1'-0"	8%	13'
1'-0"	9%	11'
2'-0"	1%	200'
2'-0"	2%	100'
2'-0"	3%	66'
2'-0"	4%	50'
2'-0"	5%	40'
2'-0"	6%	34'
2'-0"	7%	28'
2'-0"	8%	26'
2'-0"	9%	22'



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 09/25/2023

DESIGNED BY: I.A.J.

DRAWN BY: I.A.J.

REVIEWED BY: A.M.A.

SHEET TITLE:

CIVIL DETAILS

SHEET NO.: C800

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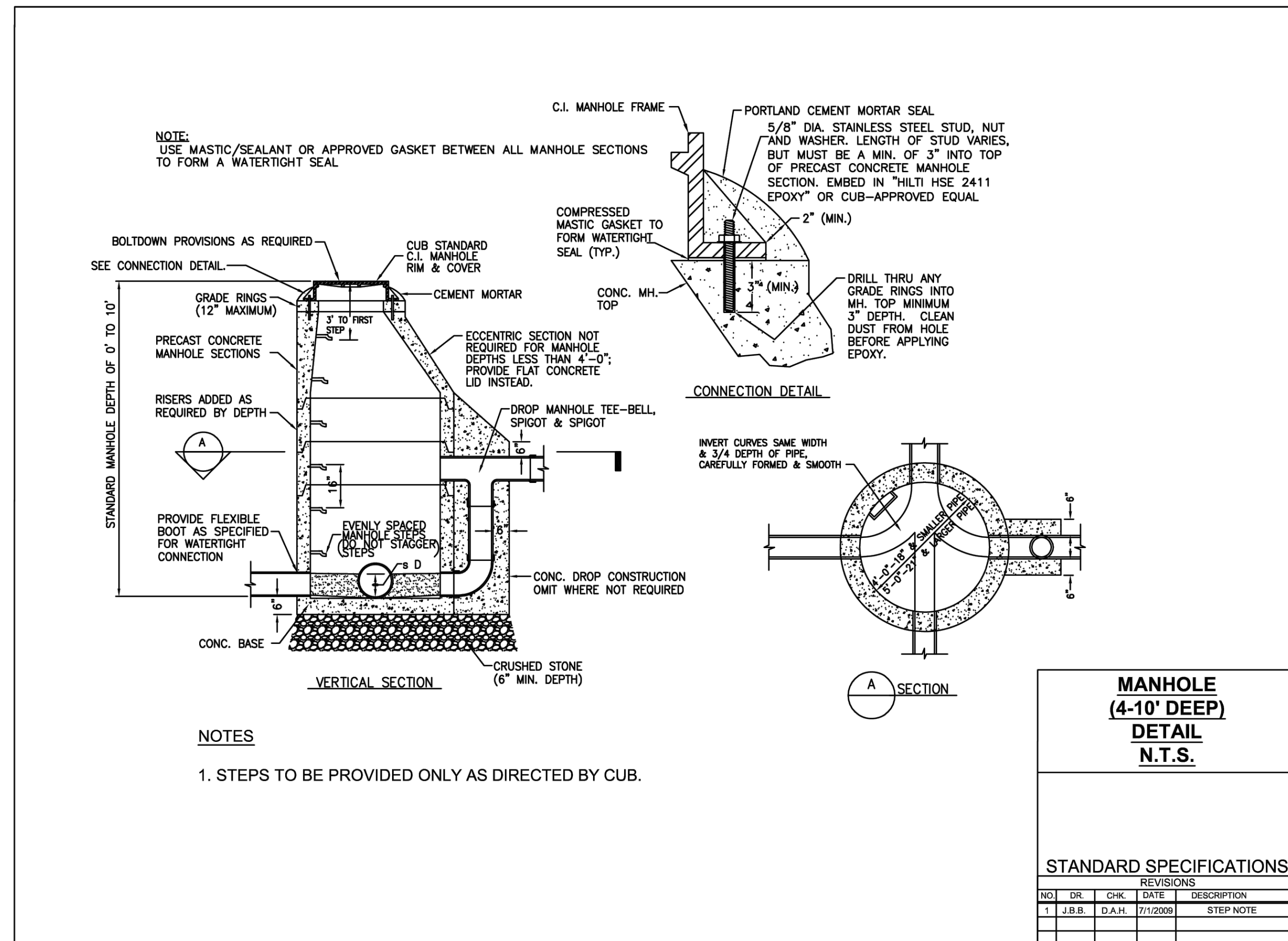
PROJECT # 2023-10-31-01 FIELD SET TFM # 00017-D

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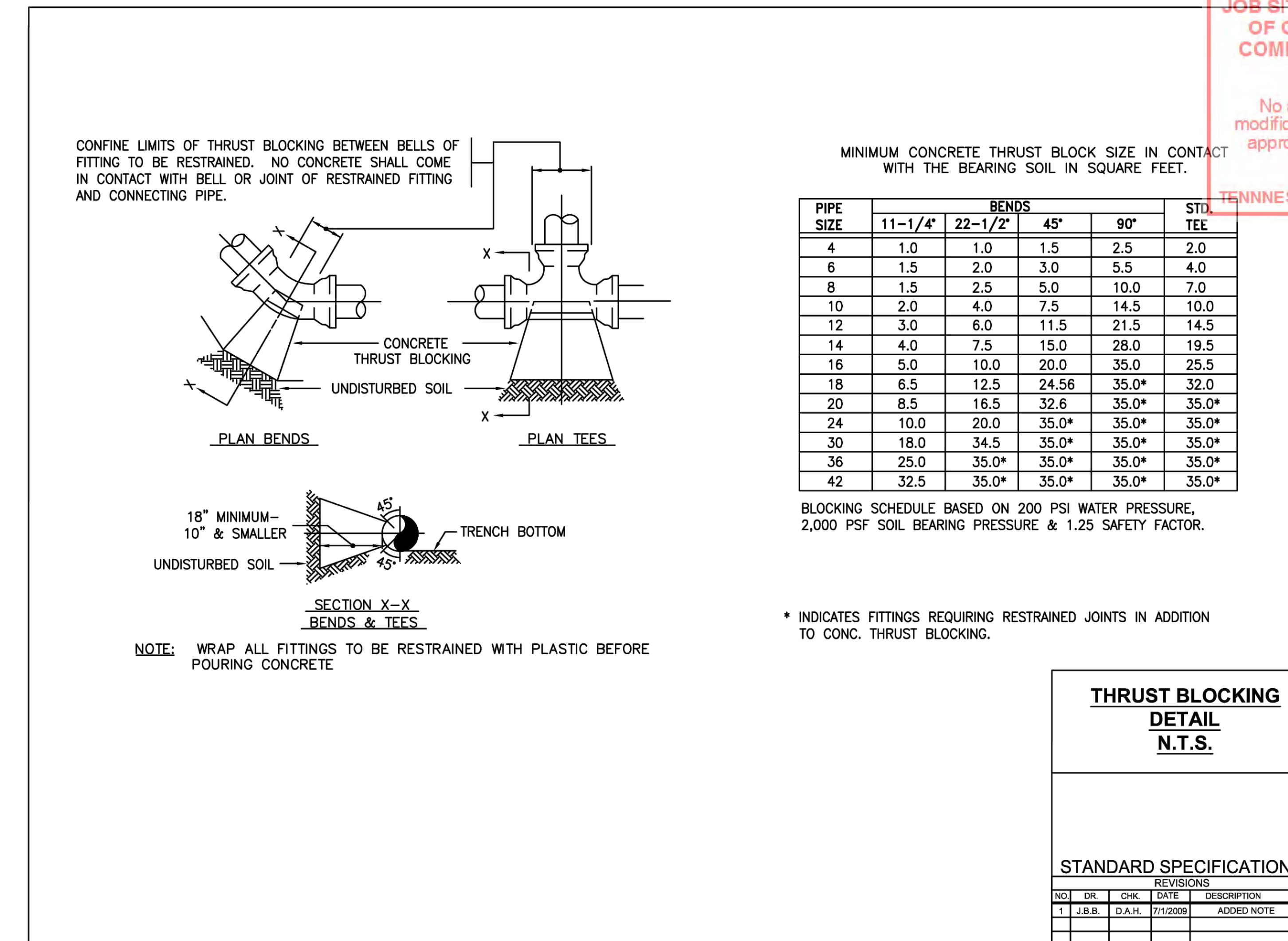
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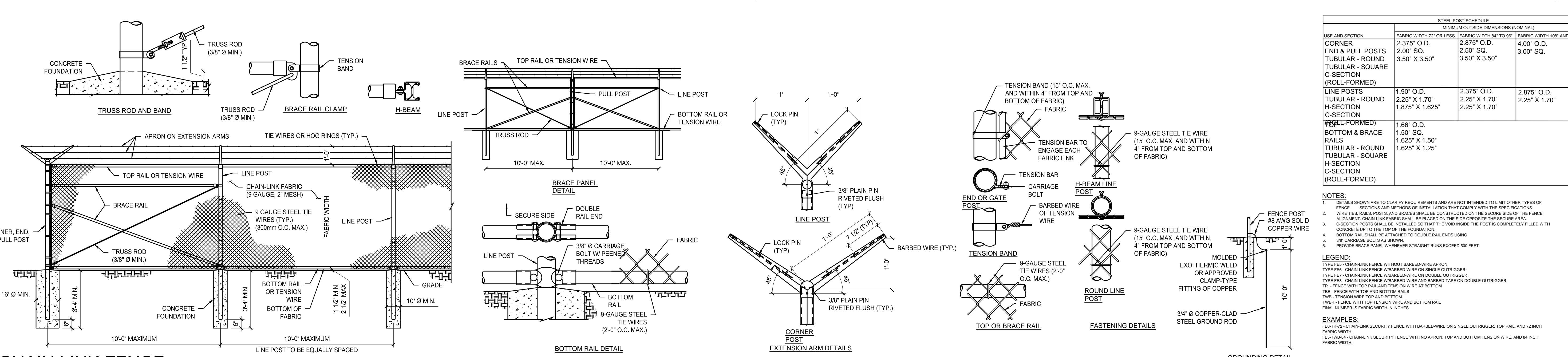
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C.U.B. TYPICAL SANITARY SEWER MANHOLE 1



C.U.B. TYPICAL THRUST BLOCK 1



CHAIN LINK FENCE 3

PROJECT # 2023-10-31-01

FIELD SET

CLINTON HIGH SCHOOL WELDING AND AGRICULTURAL BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

REVISION INFORMATION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 09/25/2023

DESIGNED BY: I.A.J.

DRAWN BY: I.A.J.

REVIEWED BY: A.M.A.

SHEET TITLE: CIVIL DETAILS

SHEET NO.: C803

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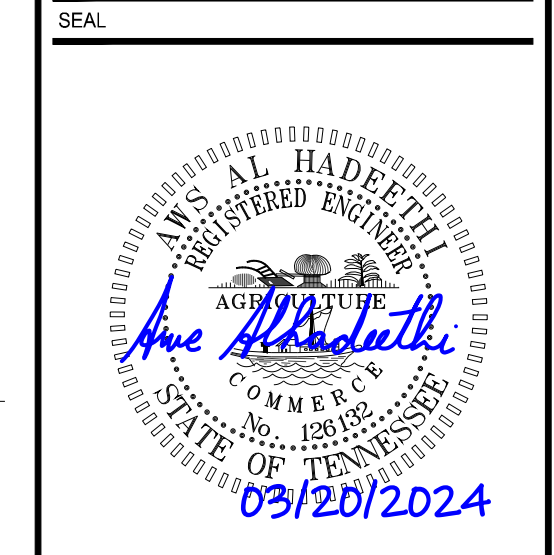
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PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	SCHEMATIC DESIGN
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<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/25/2024	
2	03/20/2024	SFMO REVIEW COMMENTS

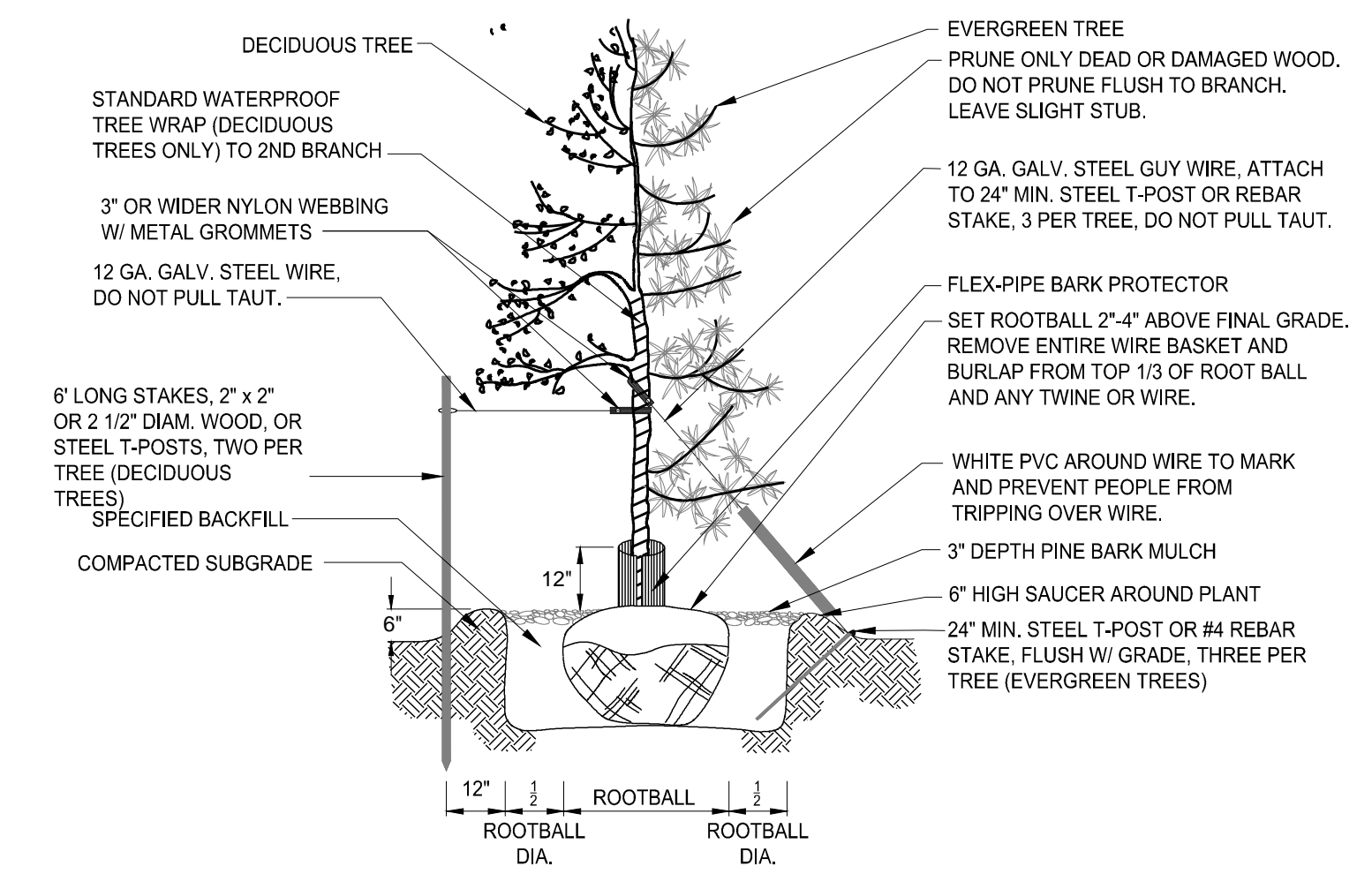
KEY PLAN

SHEET INFORMATION

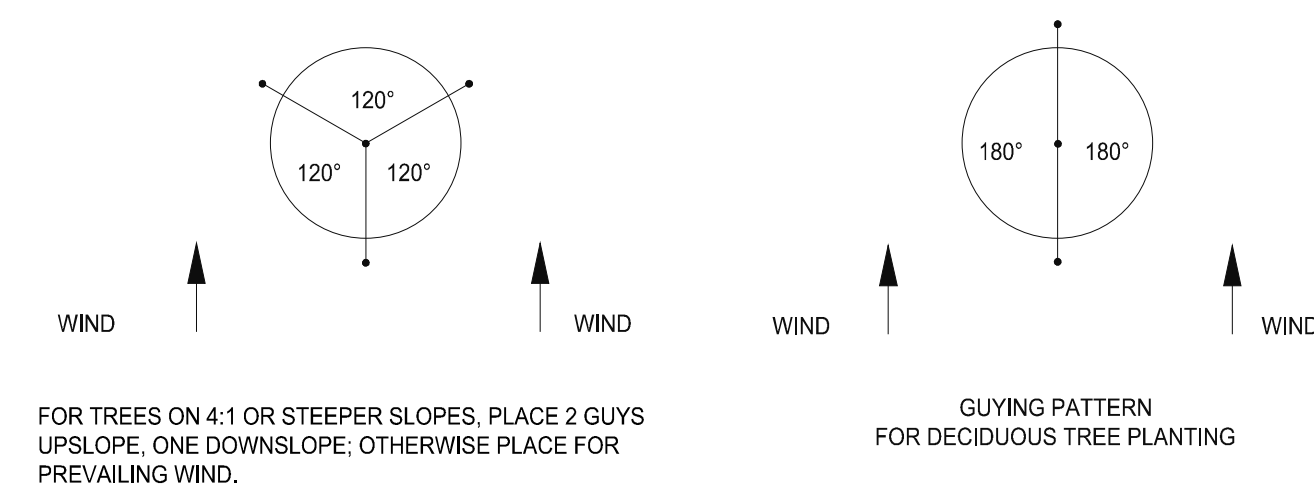
SHEET ISSUED: 10/06/2023
DESIGNED BY: I.A.J.
DRAWN BY: I.A.J.
REVIEWED BY: A.M.A.
SHEET TITLE:

SITE LANDSCAPE PLAN

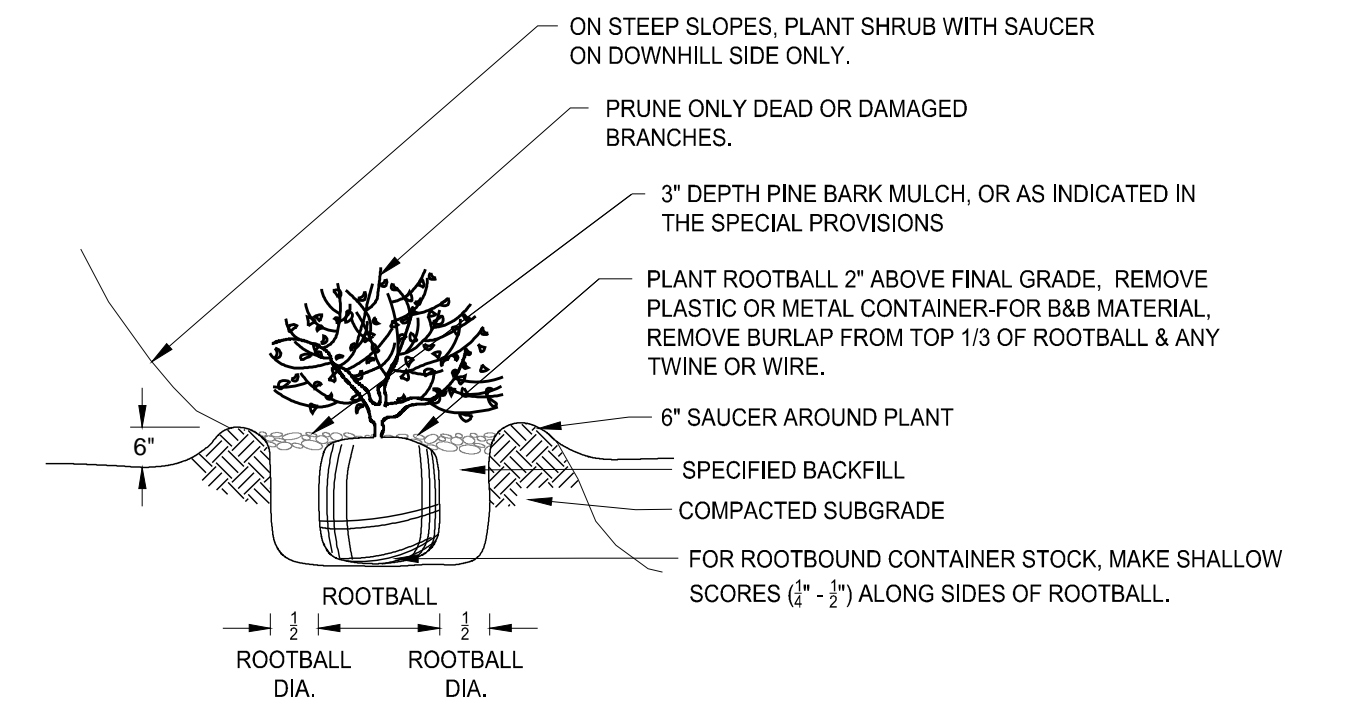
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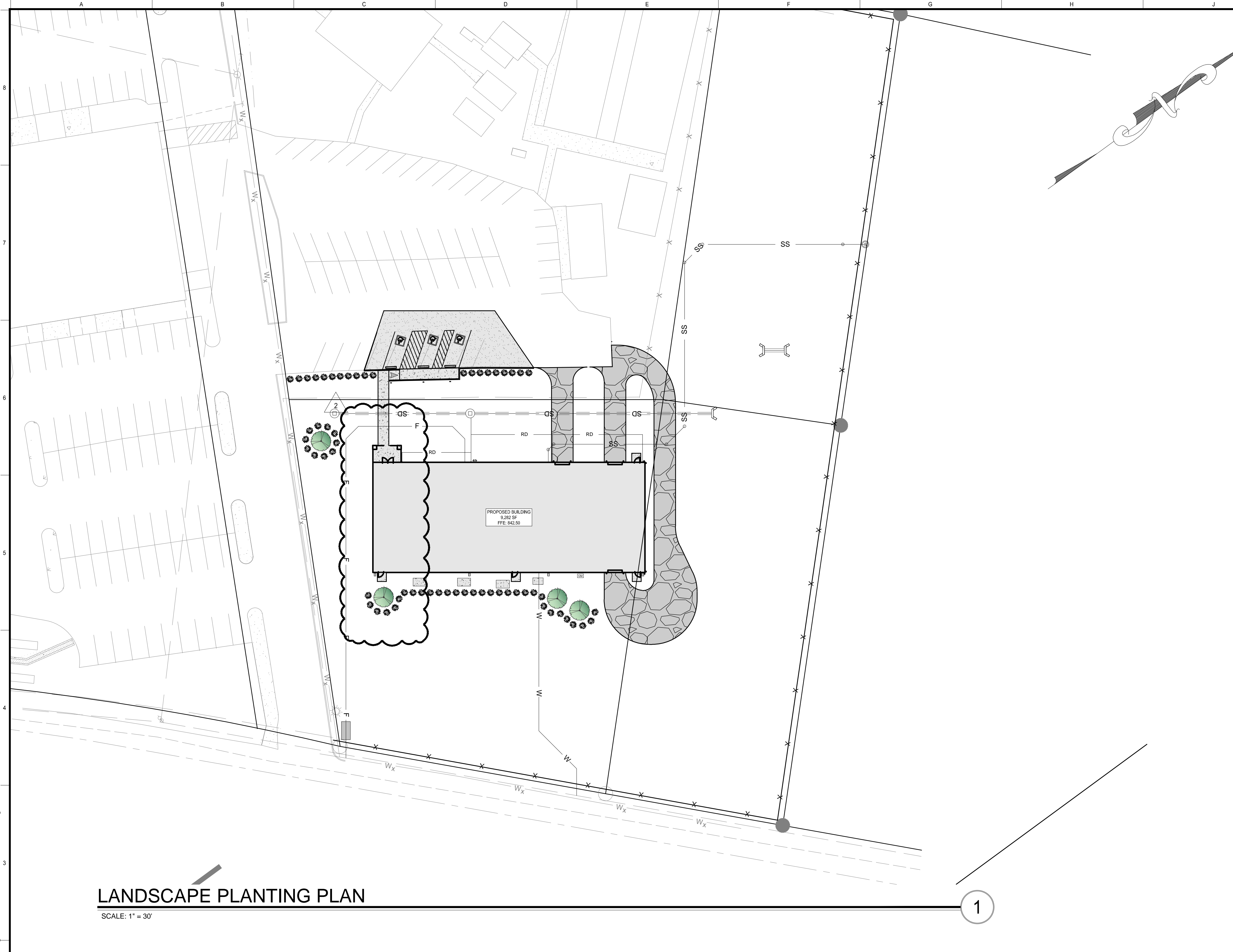
TREE PLANTING & GUYING 3



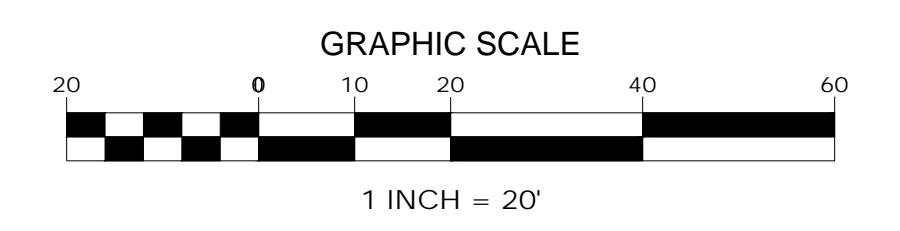
GUYING PATTERN 3



SHRUB PLANTING DETAIL 4



- GENERAL LANDSCAPE NOTES
- CARE IS TO BE TAKEN TO PROTECT ALL UNDERGROUND UTILITIES. THE GENERAL CONTRACTOR IS TO VERIFY AND MARK THE EXACT LOCATION OF ALL EXISTING UTILITIES (WATER, SEWER, GAS, ELECTRIC, SEPTIC TANKS, ETC.)
 - SOIL USED IN THE BACKFILL OF PLANTING PITS AND LANDSCAPE BEDS SHALL BE CLEAN AND WEED FREE, AND SHALL BE MIXED WITH 25% PEAT MOSS/PINE BARK BY VOLUME.
 - 12-6-6 PENNINGTON NURSERY FERTILIZER OR EQUAL SHALL BE USED IN ALL PLANTING PITS.
 - HERBICIDE, TRIFLURON OR EQUAL TO BE APPLIED TO PLANTING BEDS FOR NOXIOUS WEED CONTROL.
 - ALL PLANTING BEDS TO HAVE A MINIMUM 3" OF PINE BARK MULCH.
 - PRESSURE TREATED WOODEN STAKES SHALL BE USED FOR TREES OVER 2" CALIPER OR IN AREAS WHERE HEAVY WIND IS A FACTOR.
 - ALL LANDSCAPING MATERIAL SHALL BE INSTALLED IN A PROFESSIONAL MANNER, AND ACCORDING TO ACCEPTED PLANTING PROCEDURES.
 - TOPSOIL FURNISHED BY THE OWNER OR LANDSCAPE CONTRACTOR SHALL BE NATURAL, FERTILE, FRIABLE SOIL POSSESSING CHARACTERISTICS REPRESENTATIVE OF PRODUCTIVE SOILS IN THE AREA. SOIL SHALL NOT BE EXCESSIVELY ACIDIC, ALKALINE OR TOXIC THAT IT MAY BE HARMFUL TO PLANT GROWTH. TOPSOIL SHOULD BE FREE OF CLAY LUMPS, STONES, STUMPS, ROOTS, OR SUBSTANCE 2" OR MORE IN DIAMETER.
 - ALL TREES RETAINED OR NEW SHALL BE PROPERLY MAINTAINED TO ENSURE THEIR SURVIVAL FOR 12 MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION. ANY TREE WHICH FALLS TO SURVIVE AFTER 12 MONTHS SHALL BE REPLACED WITHIN 9 MONTHS OF LOSS.
 - LAWN QUALITY SHALL BE PROVIDED WITH FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSIS OF SEED VENDOR'S CERTIFIED STATEMENT FOR EACH GRASS SEED MIXTURE. PROJECT CONDITIONS PROCEED WITH AND COMPLETE LAWNS AND GRASSES AS RAPIDLY AS PORTIONS OF SITE BECOME AVAILABLE. FERTILIZER WITH COMMERCIAL PERCENTAGE TO BE DETERMINED WITH ANALYSIS AND SEASON OF INSTALLATION. LIME TO BE NATURAL DOLOMITIC LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATE WITH MINIMUM OF 30% MAGNESIUM CARBONATES. SOD TYPE SHALL BE STRONGLY ROOTED, FRESHLY CULTIVATED SOD, NOT LESS THAN 1 YEAR OLD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES.
 - PROPOSED PLANT MATERIAL WILL NOT INTERFERE WITH ANY EXISTING AND/OR PLANNED UNDERGROUND OR OVERHEAD UTILITIES.
 - APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
 - APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS, WHICH SHOW SIGNS OF EXCESSIVE EROSION.
 - THE GUYING OF TREES IS OPTIONAL, BUT, THE LANDSCAPE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIALS. THE GUYING DETAILS ARE AN APPROVED METHOD OF TREE GUYING, OR EQUAL.
 - CONTRACTOR SHALL ADHERE TO ALL LOCAL LANDSCAPE ORDINANCES.

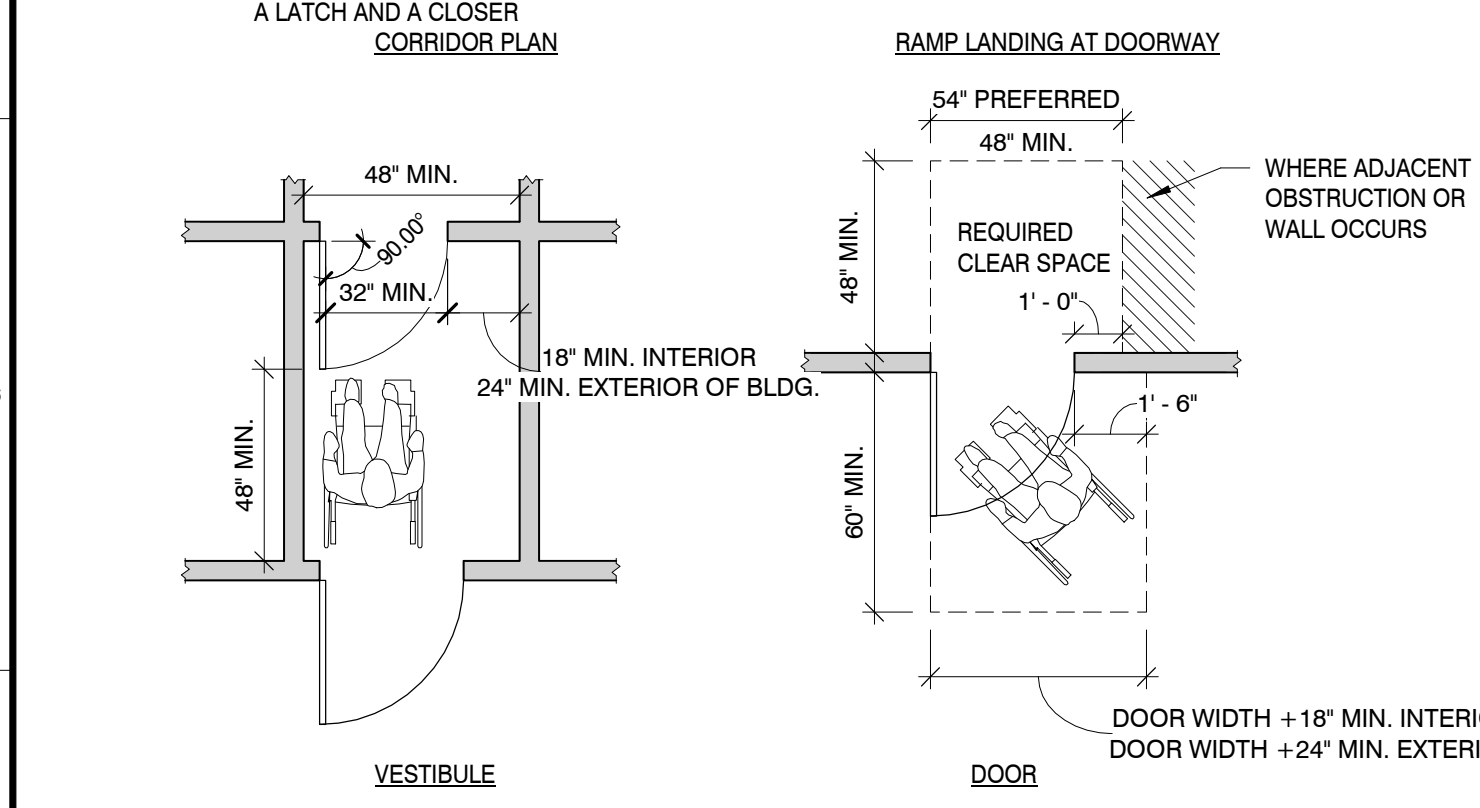
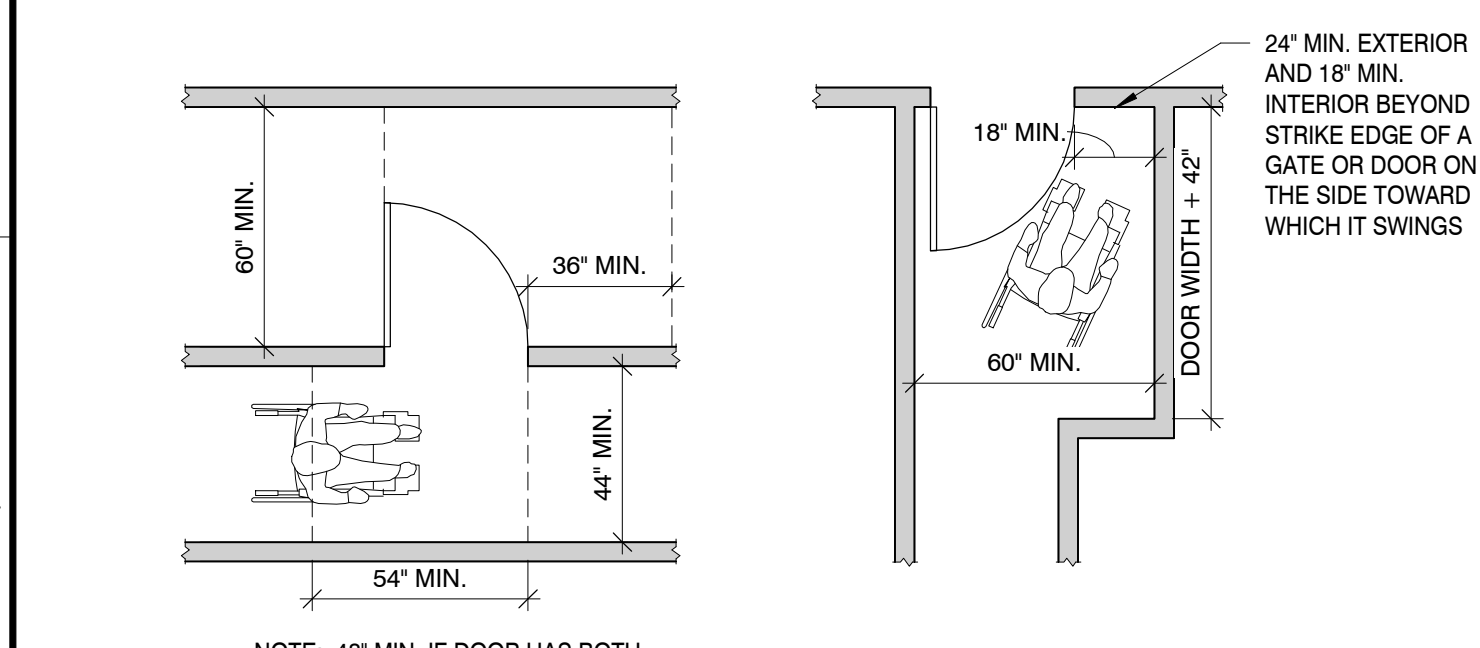


PLANT SCHEDULE

FLOWERING TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	CAL	CONT
	4	DOGWOOD / <i>Cornus florida</i>	15-30" H	2"	
DECIDUOUS SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE	CAL	CONT
	61	SPIRAEA / <i>Spiraea x 'Little Princess'</i>	18-24" H		3 gal

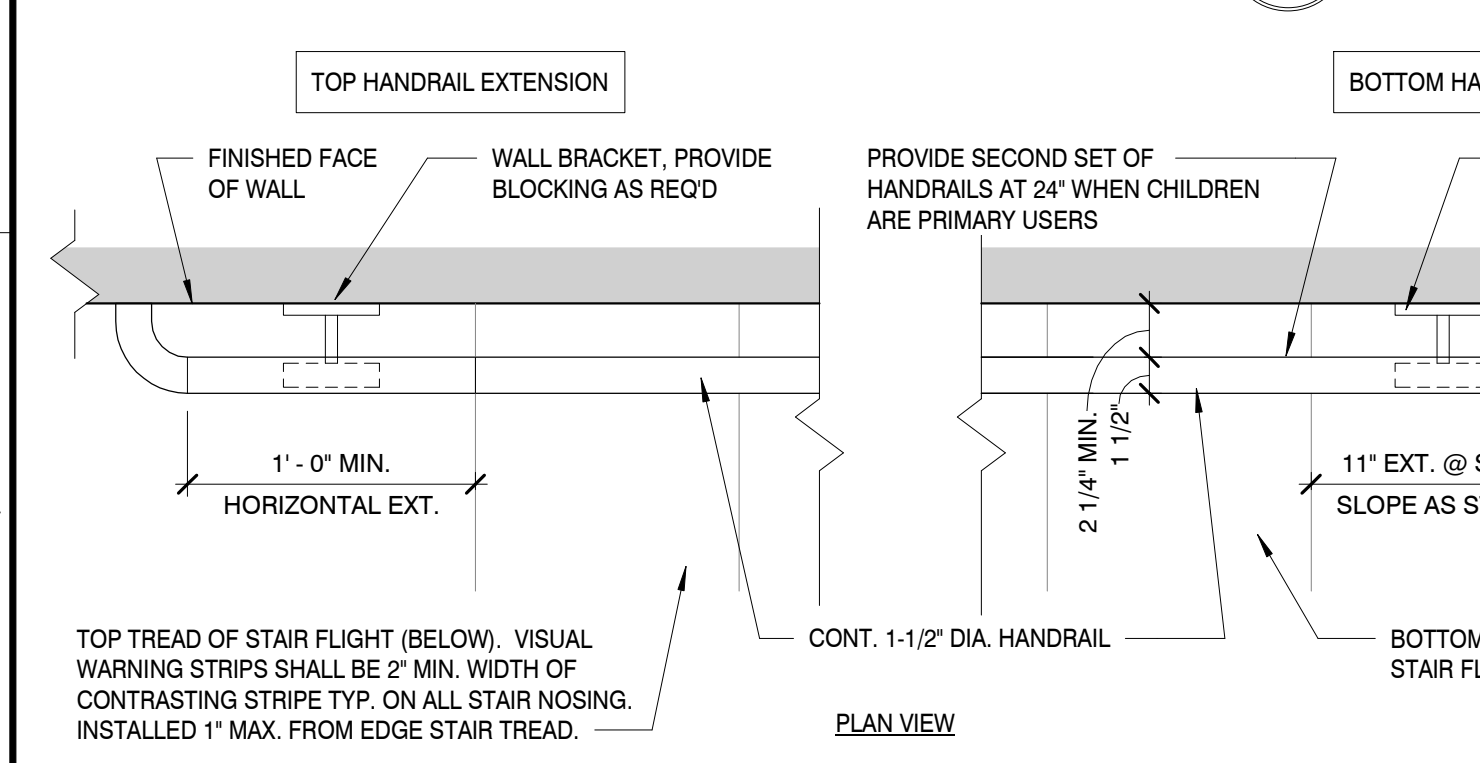
PROJECT # 2023-10-31-01 TFM # 00017-D FIELD SET

- NOTES:**
- CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" SLOPE PER FOOT IS ALLOWED FOR DRAINAGE.
 - WHERE DOORS OPEN ONTO BUT NOT INTO A CORRIDOR. THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48" A.F.F.



CORRIDOR CLEARANCES

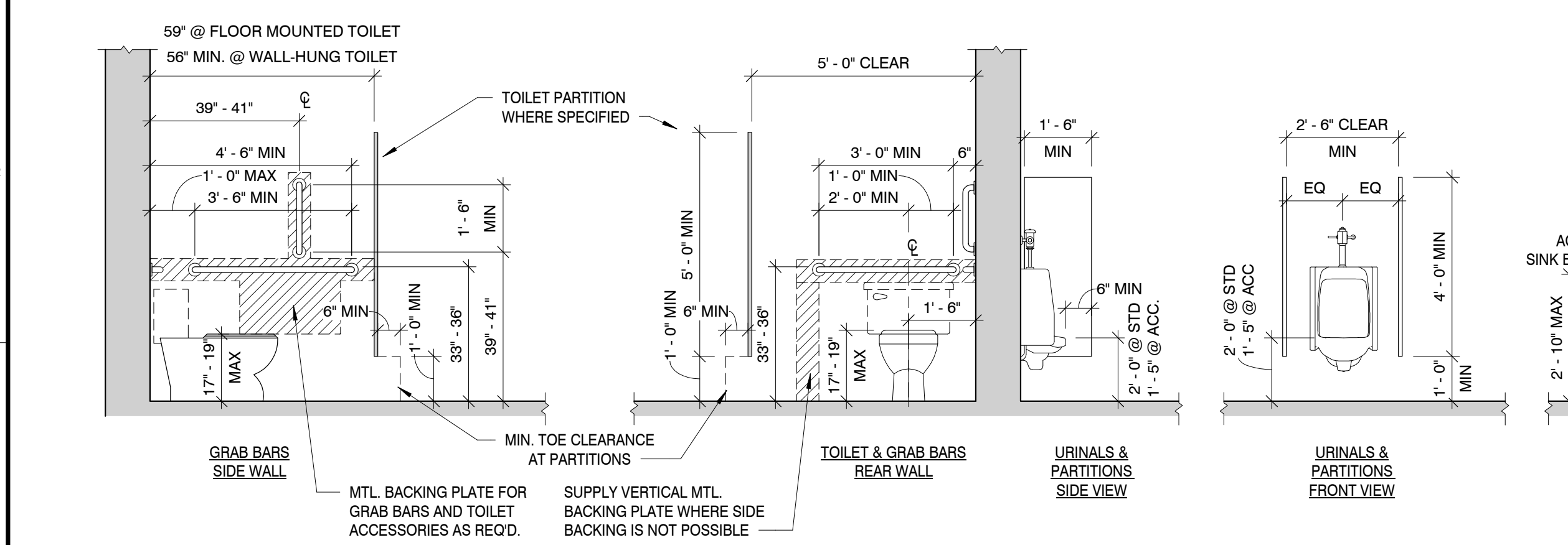
SCALE: 1/4" = 1'-0"



STAIR HANDRAIL DETAILS AND NOTES

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

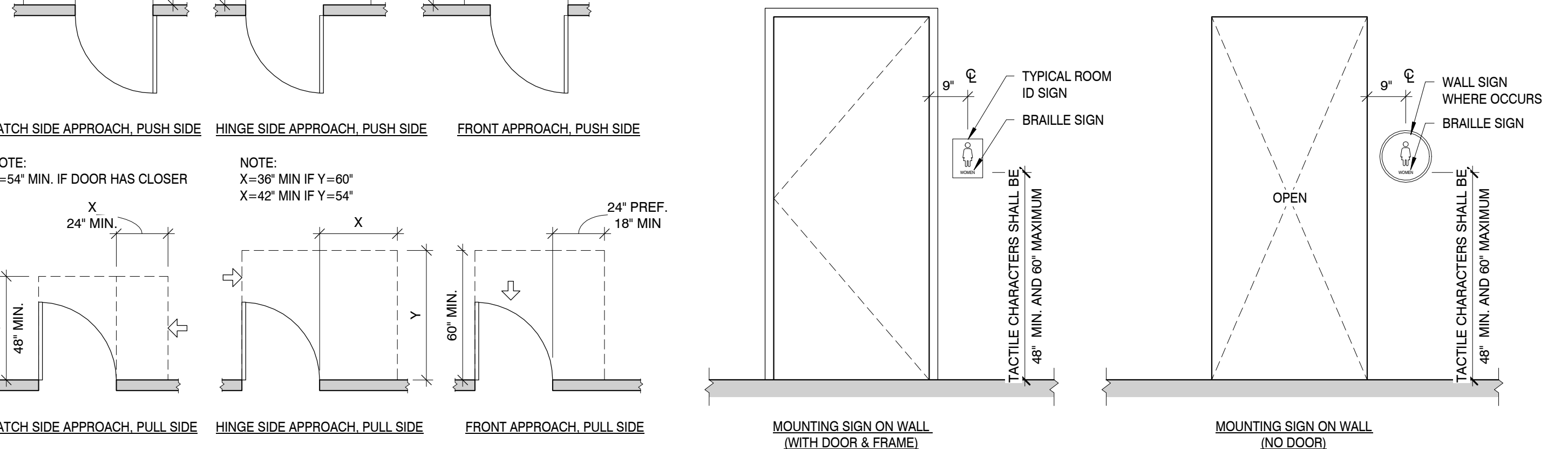
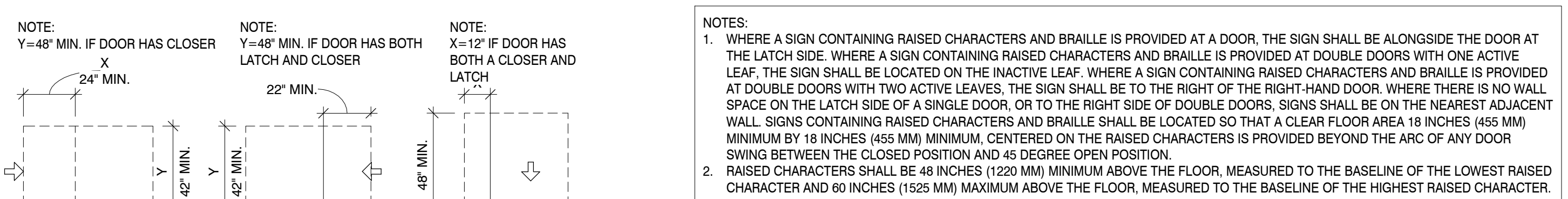
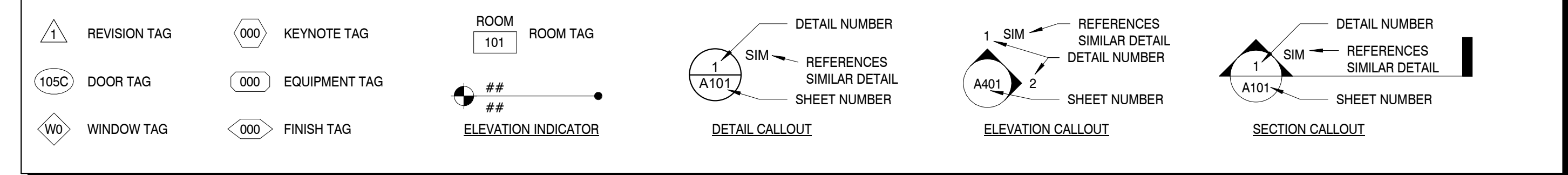
- NOTES:**
- ALL GRAB BARS SHALL BE 1 1/4" - 1 1/2" O/W 1 1/2" CLEAR BETWEEN GRAB BAR & FINISH SURFACE OF WALL.
 - FIXED SIDE WALL GRAB BARS SHALL BE 42" MIN. IN LENGTH, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MIN. FROM REAR WALL. IN ADDITION, A VERT. GRAB BAR 18" MIN. IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR BETWEEN 39" - 41" A.F.F. AND THE CENTER LINE OF THE BAR LOCATED BETWEEN 39" - 41" FROM REAR WALL. [ANSI 604.5.1]
 - REAR WALL GRAB BAR SHALL BE 36" MIN. IN LENGTH, AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12" MIN. ON SIDE CLOSEST TO WALL, AND 24" MIN. ON THE TRANSFER SIDE. [ANSI 604.5.2]
 - ALLOWABLE STRESS SHALL NOT EXCEED FOR MATERIALS USED WHERE A VERT. OR HORIZ. FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE. [ANSI 609.8]
 - GRAB BARS SHALL BE INSTALLED IN A HORIZ. POSITION, 33" MIN - 36" MAX. A.F.F. MEASURED TO THE TOP OF THE GRIPPING SURFACE. [ANSI 609.4]



PLUMBING FIXTURES DETAILS

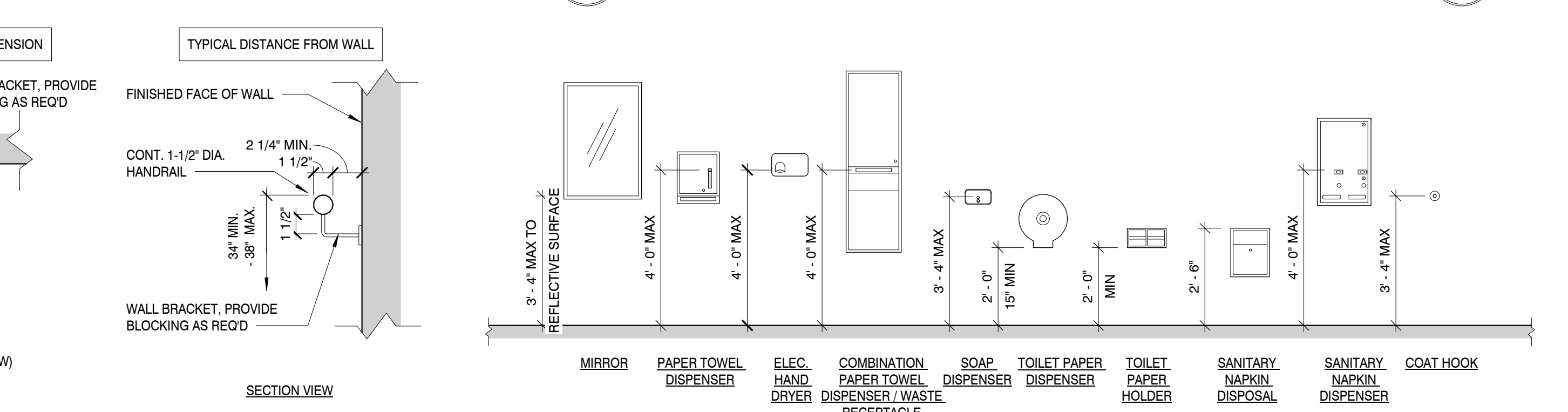
SCALE: 3/8" = 1'-0"

ARCHITECTURAL SYMBOLS



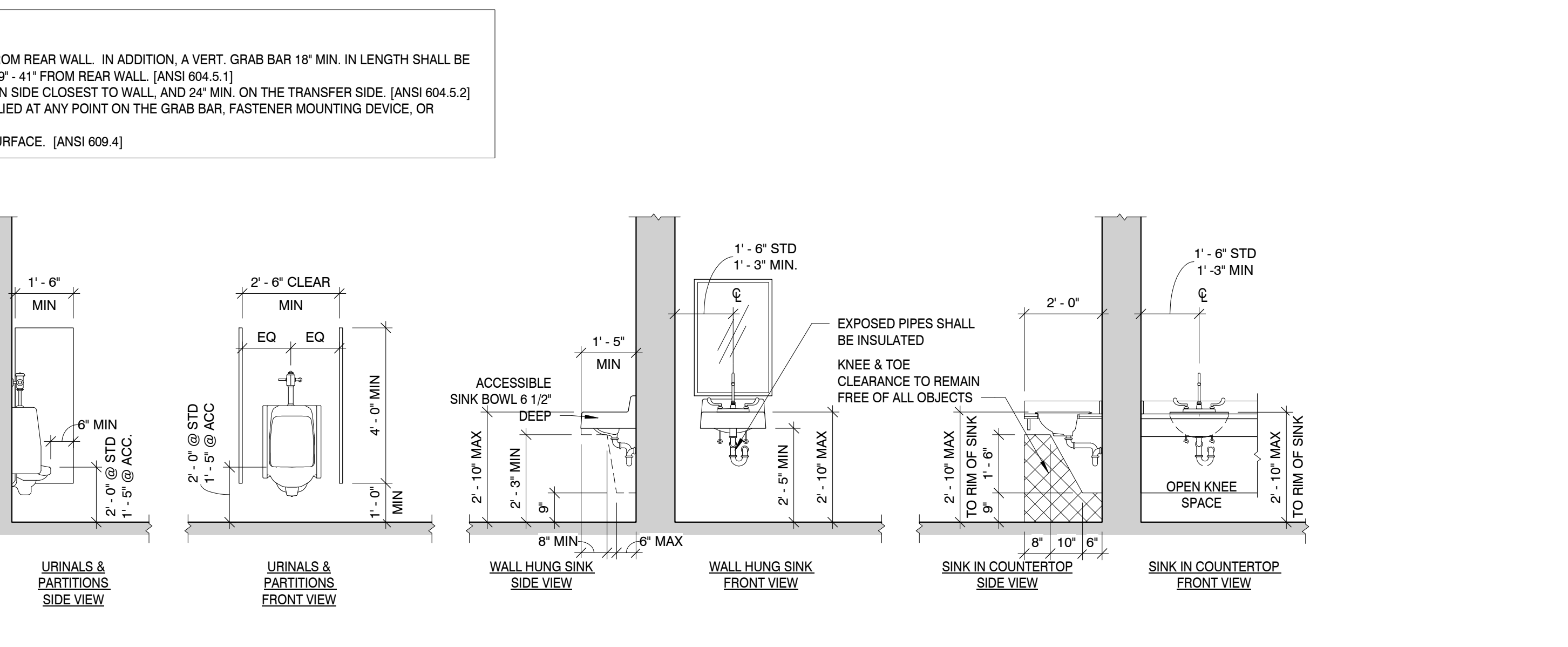
DOOR CLEARANCES

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



RESTROOM ACCESSORY MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"



PLUMBING FIXTURES DETAILS

SCALE: 3/8" = 1'-0"

GENERAL NOTES

- THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE OMISSIONS AND DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCLUDE HIM FROM PROVIDING A COMPLETED FACILITY AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. IN THE EVENT OF DISCREPANCIES, CONTRACTOR SHALL PRICE THE MORE EXPENSIVE AND EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. CHANGES OF ANY KIND ARE ALLOWED TO THIS DRAWING, GENERAL NOTES AND SPECIFICATIONS ARE COMPLIANT, AND WHAT IS CALLED FOR BY ANY ONE SET WITHOUT WRITTEN PERMISSION OF THIS OFFICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL PROVIDE AT THE JOB SITE A SET OF CONSTRUCTION DOCUMENTS ANNOTATED WITH THE LATEST REVISIONS AND CLARIFICATIONS FOR THE USE BY ALL.
- CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.
- EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER TO MAINTAIN ALL WORK, MATERIALS, APPARATUS, AND FIXTURES FROM INJURY OR DAMAGES. AT THE END OF THE DAY'S WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR OTHERWISE PROTECTED AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE AND TOILET FOR ALL SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PAPS, EXTENSIONS, VALVES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES MUST BE REMOVED AT COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL LIMIT THE INGRESS AND EGRESS OF WORKERS AND EQUIPMENT TO THE CONSTRUCTION SITE TO AUTHORIZED PERSONS ONLY. DAMAGE TO ANY EXISTING INTERIOR OR EXTERIOR CONSTRUCTION SHALL BE REPAIRED TO "LIKE NEW" CONDITION UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO FACILITATE DAILY TRAFFIC MOVEMENT, DELIVERIES, AND SAFETY. REMOVE BARRICADES WHEN NO LONGER REQUIRED.
- REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF-SITE. BURYING OR BURNING OF 'TO BE REMOVED' MATERIALS ON THE PROJECT SITE IS FORBIDDEN.
- COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECTORS AT ALL TIMES. IF SUCH OFFICIAL OR INSPECTOR DEMS SPECIAL INSPECTION NECESSARY, PROVIDE ALL ASSISTANCE AND FACILITIES THAT WILL EXPEDITE HIS INSPECTION.
- ALL DETAILS OF CONSTRUCTION SHALL CONFORM WITH THE APPLICABLE CODES (SEE PROJECT INFORMATION ON COVER SHEET)
- PROVIDE HIGH SECURITY SURFACE MOUNTED BOX W/ TAMPER SWITCH (FIRE DEPARTMENT KEY BOX) AT THE ENTRANCE. THREE COMPLETE SETS OF KEYS MUST BE PROVIDED. KEYS MUST BE PROVIDED FOR ALL ROOMS CONTAINING FIRE AND LIFE SAFETY SYSTEM CONTROLS. PRIOR TO INSTALLATION VERIFY EXACT LOCATION AND EXACT TYPE OF BOX REQUIRED WITH LOCAL AUTHORITY HAVING JURISDICTION.
- MOUNT FIRE EXTINGUISHERS LISTED IN SPECIFICATIONS AT LOCATIONS SHOWN AND/OR DIRECTED BY FIRE DEPARTMENT CODE OFFICIAL HAVING JURISDICTION.
- INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS. UNLESS OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE, AS A MINIMUM STANDARD, WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK DESCRIBED HEREIN.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY. UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO AFFECT ALL INSTALLATIONS INDICATED ON THE DRAWINGS. THE WORK SHALL ALSO INCLUDE ALL MATERIALS, DETAIL AND LABOR NECESSARY FOR THE SUCCESSFUL INSTALLATION OF THE WORK DESCRIBED HEREIN.
- ALL DIMENSIONS ARE TO FACE OF CONC. BLOCK, CONC. PANEL, FACE OF EXISTING FINISH, OR FACE OF NEW STUD, UNLESS OTHERWISE NOTED. "CLEAR" DENOTES FINISH TO FINISH DIMENSIONS.
- CONTRACTOR IS TO COORDINATE THE BUILDING PLANS WITH THE CIVIL AND SURVEY DRAWINGS FOR EXACT ELEVATIONS AND SLOPES OF EXTERIOR GRADES FOR INSTALLATION OF NEW EXTERIOR STAIRS, RAMPS AND SIDEWALKS. CONTRACTOR TO FIELD VERIFY EXTERIOR GRADES AT BUILDING ENTRANCES TO ALIGN WITH FINISHED FLOOR ELEVATIONS AND/OR NEW STAIR/RAMP ELEVATIONS. GRADING AT BUILDING PERIMETER TO SLOPE AWAY FROM BUILDING MIN. 1/4" PER FOOT.
- CONTRACTOR IS TO FIELD VERIFY LOCATIONS AND RUNS OF ALL NEW AND EXISTING STORM SEWER PIPING AND ROOF TIE-INS. REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO START OF CONSTRUCTION.
- DO NOT INTERRUPT EXISTING UTILITIES IN OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK.
- CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO UNIFORM ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT THE ACCURATE RIGHT ANGLES. OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE.
- BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. ANY DIFFERENCES BETWEEN DIMENSIONS INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR INSTRUCTIONS AND CONSIDERATIONS BEFORE PROCEEDING WITH THE WORK.
- FURNISH AND INSTALL ALL REQUIRED BACKING FOR ALL SHELVES, CABINETS, FIXTURES, HANDRAILS AND EQUIPMENT. COORDINATING WITH OWNER AND CONTRACTOR FOR EXACT SIZE, NUMBER, AND LOCATION PRIOR TO START OF CONSTRUCTION. METAL BACKING PLATES TO BE FLAT STOCK (20 GAUGE MIN.) WHEN APPLIED TO METAL FRAMING. ALL WOOD BLOCKING, NAILERS, ETC. MUST BE FIRE RETARDANT TREATED.
- GLAZING IN DOORS AND ADJACENT PANELS MUST BE TEMPERED. RESPONSIBILITY OF GLAZING SUBCONTRACTOR TO VERIFY & PLACE TEMPERED GLASS AS REQUIRED BY THE LOCAL BUILDING CODE & INSPECTOR.
- SPOUT OUTLETS FOR WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36" MAX A.F.F. AND FOR STANDING PERSONS SHALL BE 38" MIN A.F.F. AND 43" MAX. A.F.F.
- FILL ALL C.M.U. CELLS BELOW FINISH FLOOR OR FINISHED GRADE, WHICHEVER IS HIGHER SHALL BE SOLID GROUTED.
- PROVIDE ADA COMPLIANT SIGNAGE AT ALL TOILET AND BATHROOMS. APPROPRIATELY IDENTIFIED AS "MEN" AND "WOMEN".
- ALL TOILET ROOMS AND BATHROOMS WALLS SHALL EXTEND FROM FINISH FLOOR TO FLOOR/ ROOF DECK ABOVE. PROVIDE SOUND BATT INSULATION IN ENTIRE STUD CAVITY.
- ALL WALLS WITHIN 24" OF SERVICE SINK, URINAL AND/ OR WATER CLOSET SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. TO A HEIGHT OF NOT LESS THAN 48" A.F.F. IF TILE OR FRP IS NOT SPECIFIED PROVIDE EPOXY PAINT, COLOR TO BE SELECTED BY ARCHITECT.
- ALL WALL BASE IN TOILET ROOMS, BATHROOMS AND KITCHENS SHALL BE COVED AND EXTEND UPWARD ONTO THE WALL A MIN. OF 4" A.F.F.

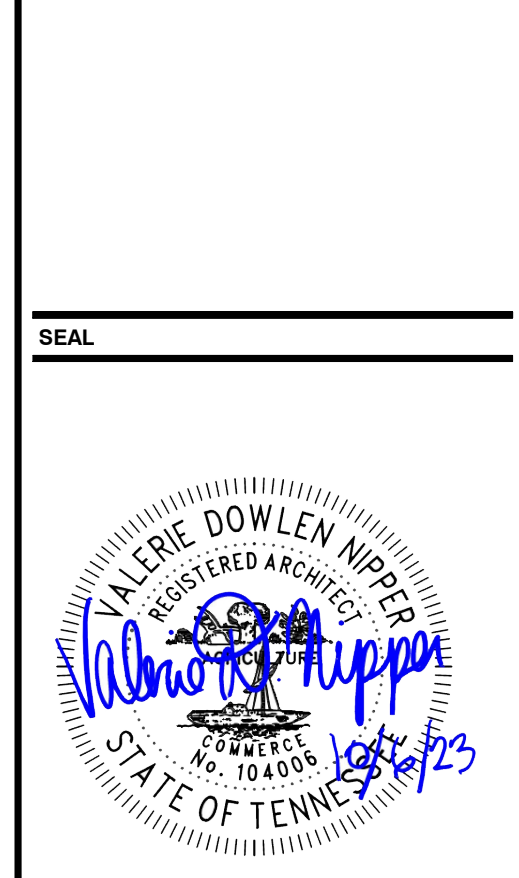
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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

<input type="checkbox"/>	FOR REVIEW ONLY
<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED:	10/06/2023
DESIGNED BY:	CMG
DRAWN BY:	MDC
REVIEWED BY:	CMG
SHEET TITLE:	

GENERAL NOTES AND ACCESSIBILITY DETAILS

SHEET NO.: A000

BUILDING OCCUPANCY

BUILDING OCCUPANCY CLASSIFICATIONS PER IBC CHAPTERS 3, 4, 5
BUILDING OCCUPANCY GROUP: IBC CHAPTER 3
 ○ GROUP A-1 ○ GROUP H-1 ○ GROUP M
 ○ GROUP A-2 ○ GROUP H-2 ○ GROUP R-1
 ○ GROUP A-3 ○ GROUP H-3 ○ GROUP R-2
 ○ GROUP A-4 ○ GROUP H-4 ○ GROUP R-3
 ○ GROUP A-5 ○ GROUP H-5 ○ GROUP R-4
 ○ GROUP B ○ GROUP I-1 ○ GROUP S-1
 ○ GROUP E ○ GROUP I-2 ○ GROUP S-2
 ○ GROUP F-1 ○ GROUP I-3 ○ GROUP S-2
 ○ GROUP F-2 ○ GROUP I-4

MIXED USE / OCCUPANCY: IBC SECTIONS 508 / 509
 ○ ACCESSORY OCCUPANCIES IBC SECTION 508.2
 ○ NONSEPARATED OCCUPANCIES IBC SECTION 508.3
 ○ SEPARATED OCCUPANCIES IBC SECTION 508.4
 ○ INCIDENTAL USES IBC SECTION 509

SPECIAL REQUIREMENTS: IBC CHAPTERS 4, 5
 ○ HIGH-RISE BUILDING IBC SECTION 403
 ○ ATRIUM IBC SECTION 404
 ○ HAZARDOUS MATERIALS IBC SECTION 414
 ○ MEZZANINE IBC SECTION 505.2
 ○ EQUIPMENT PLATFORM IBC SECTION 505.3

MEANS OF EGRESS
DOORS: PER IBC 1010
 • THE CLEAR WIDTH OF AN EGRESS DOOR OPENING SHALL NOT BE LESS THAN 32" AND NOT MORE THAN 48". THE CLEAR HEIGHT OF AN EGRESS DOOR OPENING SHALL NOT BE LESS THAN 80". DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR A GROUP H OCCUPANCY.

STAIRWAYS: PER IBC 1011
 • THE CLEAR WIDTH OF A STAIRWAY SHALL NOT BE LESS THAN 44". THE MINIMUM HEADROOM SHALL NOT BE LESS THAN 80" AS MEASURED FROM THE NOSING.

LIFE SAFETY SYSTEMS:
 LIFE SAFETY SYSTEMS ARE PER IBC CHAPTER 9
 ● AUTOMATIC SPRINKLER SYSTEM PER NFPA 13
 ● FIRE ALARM SYSTEM PER NFPA 72
 ● PORTABLE FIRE EXTINGUISHERS PER NFPA 10
 ○ STANDPIPE SYSTEM PER NFPA 14

EGRESS CAPACITY FACTORS
 EGRESS CAPACITY FACTORS ARE PER: IBC 1005
 ● AUTOMATIC SPRINKLER SYSTEM
 ○ EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

MINIMUM REQUIRED EGRESS WIDTH:
 STAIRWAYS: 0.3
 OTHER EGRESS COMPONENTS: 0.2

LIFE SAFETY LOAD CALCULATIONS

NO.	AREA	SQ. FT.	LOAD FACTOR	OCCUPANT LOAD	CALCULATED LOAD
ACCESSORY STORAGE AREA / MECHANICAL ROOM					
122	Area	Not Placed			
112	STORAGE	149 SF	300	1	
116	ELEC. MECH.	89 SF	300	1	
115	STORAGE	81 SF	300	1	
106	STOR	83 SF	300	1	
CORE					
113	CORRIDOR	321 SF			
109	WOMENS	152 SF			
110	MENS	152 SF			
102	CORRIDOR	616 SF			
EDUCATIONAL - CLASSROOM					
105	OFFICE	167 SF	20	9	
100	VESTIBULE	169 SF	20	9	
103	WORKROOM	231 SF	20	11	
101	LOBBY/REC.	959 SF	20	48	
108	CLASSROOM	959 SF	20	48	
104	STORAGE	960 SF	20	48	
102	CLASSROOM	1017 SF	20	51	
EDUCATIONAL - SHOPS / VOCATIONAL ROOMS					
114	WELDING SHOP	1747 SF	50	35	
111	AG INNOVATION	1774 SF	50	36	
	GRAND TOTALS	8867 SF		263	

ADDITIONAL FIRE RESISTANCE RATING INFORMATION

DESCRIPTION **FIRE RATING** **CODE**
 PER IBC 713.4.1 / 3002.1
 SHAFT / HOISTWAY ENCLOSURES
 • 4 STORIES OR GREATER 2 HR
 • LESS THAN 4 STORIES 1 HR
 PER IBC 1022.2
 EXIT ENCLOSURES
 • 4 STORIES OR GREATER 2 HR
 • LESS THAN 4 STORIES 1 HR
 PER IBC 1023.3
 EXIT PASSAGEWAYS 1 HR

MINIMUM NUMBER OF EXITS PER IBC TABLE 1006.3.2

OCCUPANT LOAD	MIN NUMBER OF EXITS PER STORY
1-500	2
501-1000	3
> 1000	4

SPACES WITH ONE EXIT PER IBC TABLE 1006.2.1

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, B, E, F, M, U	49
H-1, H-2, H-3	3
H-4, H-5, I, R-1	10
R-2, R-3, R-4	20
S	29

FIRE RESISTANCE RATING REQUIREMENTS

FIRE RESISTANCE RATING REQUIREMENTS PER IBC TABLE 601

TYPE OF CONSTRUCTION: IIB
 PRIMARY STRUCT FRAME: 0 HOURS
 BEARING WALLS (EXT): 0 HOURS
 BEARING WALLS (INT): 0 HOURS
 NONBEARING WALLS AND PARTITIONS (EXT): PER IBC TABLE 602
 NONBEARING WALLS AND PARTITIONS (INT): 0 HOURS
 FLOOR CONSTRUCTION: 0 HOURS
 ROOF CONSTRUCTION: 0 HOURS

IBC TABLE 602: EXTERIOR WALL FIRE RATING

SEPERATION DISTANCE	CONS TYPE	H	F-1, M, S-1	A, B, E, F-2, I, R, S-2, U
X < 5	ALL	3	2	1
5 ≤ X ≤ 10	IA	2	1	1
	OTHERS	2	1	1
10 ≤ X ≤ 30	IA, IB	2	1	1
	IB, VB	1	0	0
	OTHERS	1	0	0
X ≥ 30	ALL	0	0	0

CORRIDOR FIRE RATING PER IBC TABLE 1020.1

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQD FIRE RATING
A, B, E, F, M, S, U	> 30	0

COMMON PATH OF TRAVEL PER IBC 1006.2.1

OCCUPANCY	SPRINKLERED	MAX DISTANCE
A, E, M	75	

MAXIMUM TRAVEL DISTANCE PER IBC 1017.2

OCCUPANCY	SPRINKLERED	MAX DISTANCE
A, E, F-1, M, R, S-1	250	

DEAD END CORRIDOR PER IBC 1020.4

OCCUPANCY	SPRINKLERED	MAX DISTANCE
E	50	

CORRIDOR FIRE RATING PER IBC TABLE 1018.1

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	W/SPRINKLER SYSTEM
E	> 30	0 HOURS

COMMON PATH OF TRAVEL PER IBC 1014.3

OCCUPANCY	SPRINKLERED	MAX DISTANCE
E	YES	75 FT

MAXIMUM TRAVEL DISTANCE PER IBC 1016.2

OCCUPANCY	SPRINKLERED	MAX DISTANCE
E	YES	250 FT

DEAD END CORRIDOR PER IBC 1018.4

OCCUPANCY	SPRINKLER	MAX DISTANCE
E	YES	50 FT

EGRESS DOOR SCHEDULE

MARK	DOOR	WIDTH REQUIRED	WIDTH PROVIDED	OCCUPANT LOAD	MAXIMUM LOAD
LEVEL 1					
100B		32"	33"	25	337
102B		32"	33"	19	165
111A		32"	33"	19	165
111B		32"	33"	37	165
113A		32"	33"	106	165
114A		32"	33"	19	165
114C		32"	33"	37	165

LIFE SAFETY SYSTEMS:

LIFE SAFETY SYSTEMS ARE PER IBC CHAPTER 9
 ● AUTOMATIC SPRINKLER SYSTEM PER NFPA 13
 ● FIRE ALARM SYSTEM PER NFPA 72
 ● PORTABLE FIRE EXTINGUISHERS PER NFPA 10
 ○ STANDPIPE SYSTEM PER NFPA 14

EGRESS CAPACITY FACTORS

EGRESS CAPACITY FACTORS ARE PER: IBC 1005
 ● AUTOMATIC SPRINKLER SYSTEM
 ○ EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

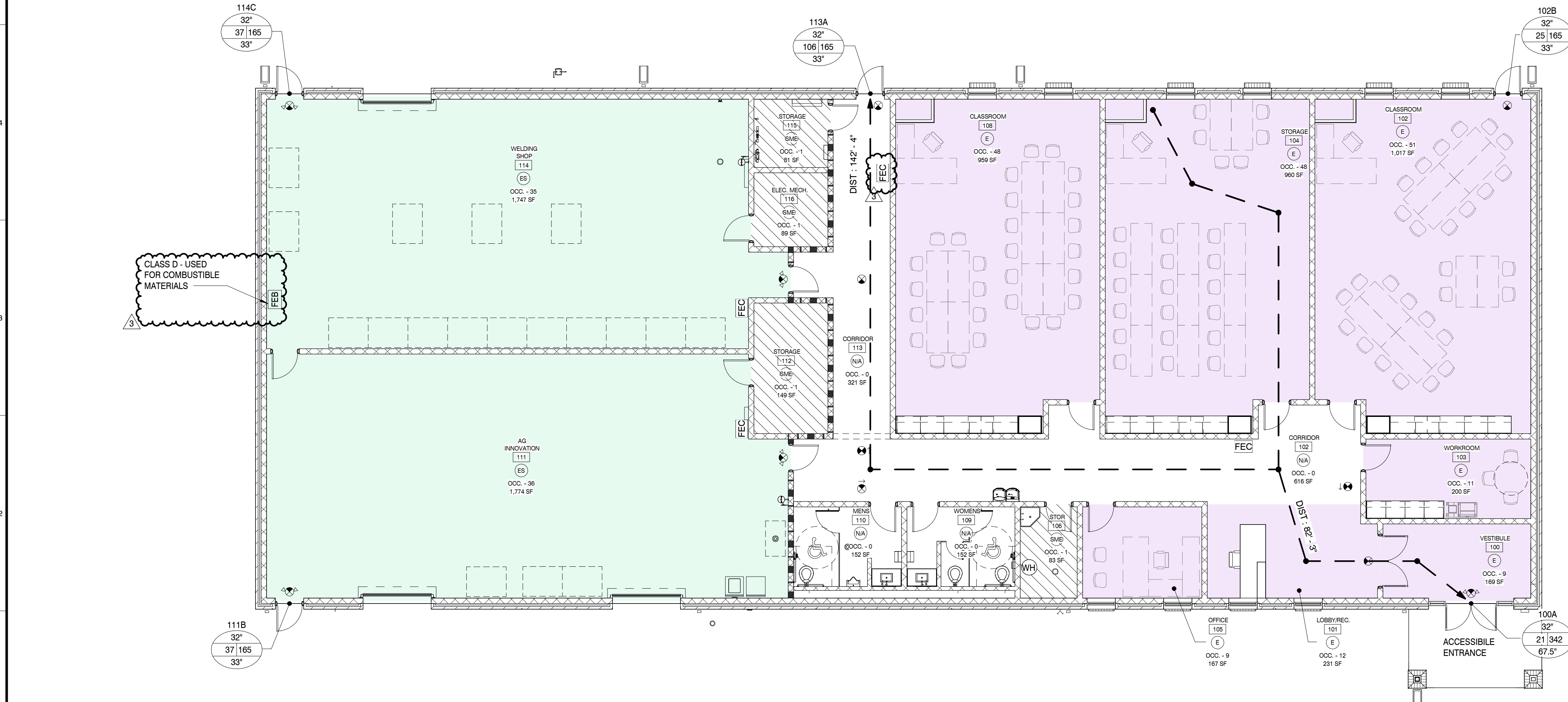
MINIMUM REQUIRED EGRESS WIDTH:
 STAIRWAYS: 0.3
 OTHER EGRESS COMPONENTS: 0.2

BUILDING AREA MODIFICATIONS: IBC CHAPTER 5

○ AUTOMATIC SPRINKLER SYSTEM
 ○ HEIGHT INCREASE IBC SECTION 504.3
 ○ AREA INCREASE IBC SECTION 506.2
 ○ FRONTAGE INCREASE IBC SECTION 506.3
 ○ UNLIMITED AREA IBC SECTION 507

BUILDING AREA AND HEIGHT: IBC TABLE 506.2 / 504.3

MAXIMUM AREA ALLOWED:
 ACTUAL BUILDING AREA:
 MAXIMUM HEIGHT ALLOWED:
 ACTUAL BUILDING HEIGHT:



LIFE SAFETY PLAN LEGEND

AREA OCCUPANCY TAG

- AREA NAME
- AREA NUMBER
- AREA OCCUPANT TYPE
- AREA OCCUPANT LOAD
- AREA SQUARE FOOTAGE

DOOR / STAIR EGRESS TAG

REQ WIDTH: 30"
 ACTUAL LOAD: 150 | 180
 MAX LOAD: 36"
 ACTUAL WIDTH: 36"

INDICATES DISTANCE TO EXIT
 DIST: ###

PATH OF TRAVEL

0 HR RATED WALL
1 HR RATED STUD WALL
1 HR RATED CMU WALL
2 HR RATED STUD WALL
2 HR RATED CMU WALL
FUTURE TENANT WALL

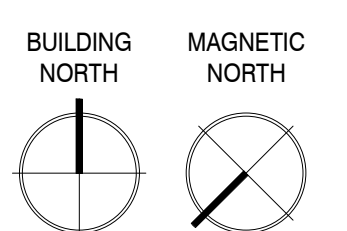
FIRE ALARM PULL STATION
CEILING MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL SPEAKER STROBE DEVICE
CEILING MOUNTED FIRE ALARM VISUAL STROBE DEVICE
EXIT SIGN
CEILING MOUNTED SMOKE DETECTOR DEVICE
FIRE ALARM CONTROL PANEL
FIRE EXTINGUISHER CABINET MTD W/ HIGHEST OPERABLE PART @ 48" AFF MAX
FIRE EXTINGUISHER ON BRACKET MTD W/ HIGHEST OPERABLE PART @ 48" AFF MAX

LIFE SAFETY CODE SPACE FUNCTIONS PER IBC...

ABBREV	SPACE FUNCTION	GROSS / NET SF
E	EDUCATIONAL - CLASSROOM	NSF
ES	EDUCATIONAL - SHOPS / VOCATIONAL ROOMS	NSF
N/A	CORE	
SME	ACCESSORY STORAGE AREA / MECHANICAL ROOM	GSF

LIFE SAFETY PLAN

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



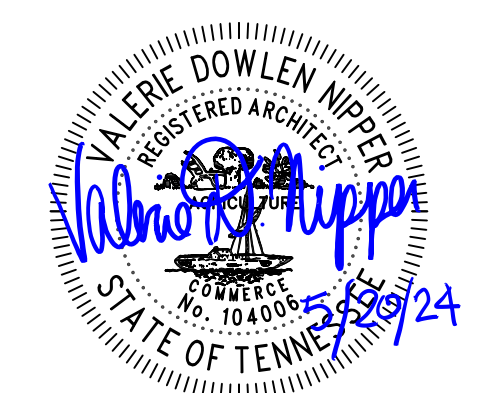
TFM # 00017-D
 PROJECT # 2023-10-31-01



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SEAL



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
3	05.20.2024	REVISION #3

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
 SHEET TITLE:

LIFE SAFETY INFORMATION

SHEET NO.: A001

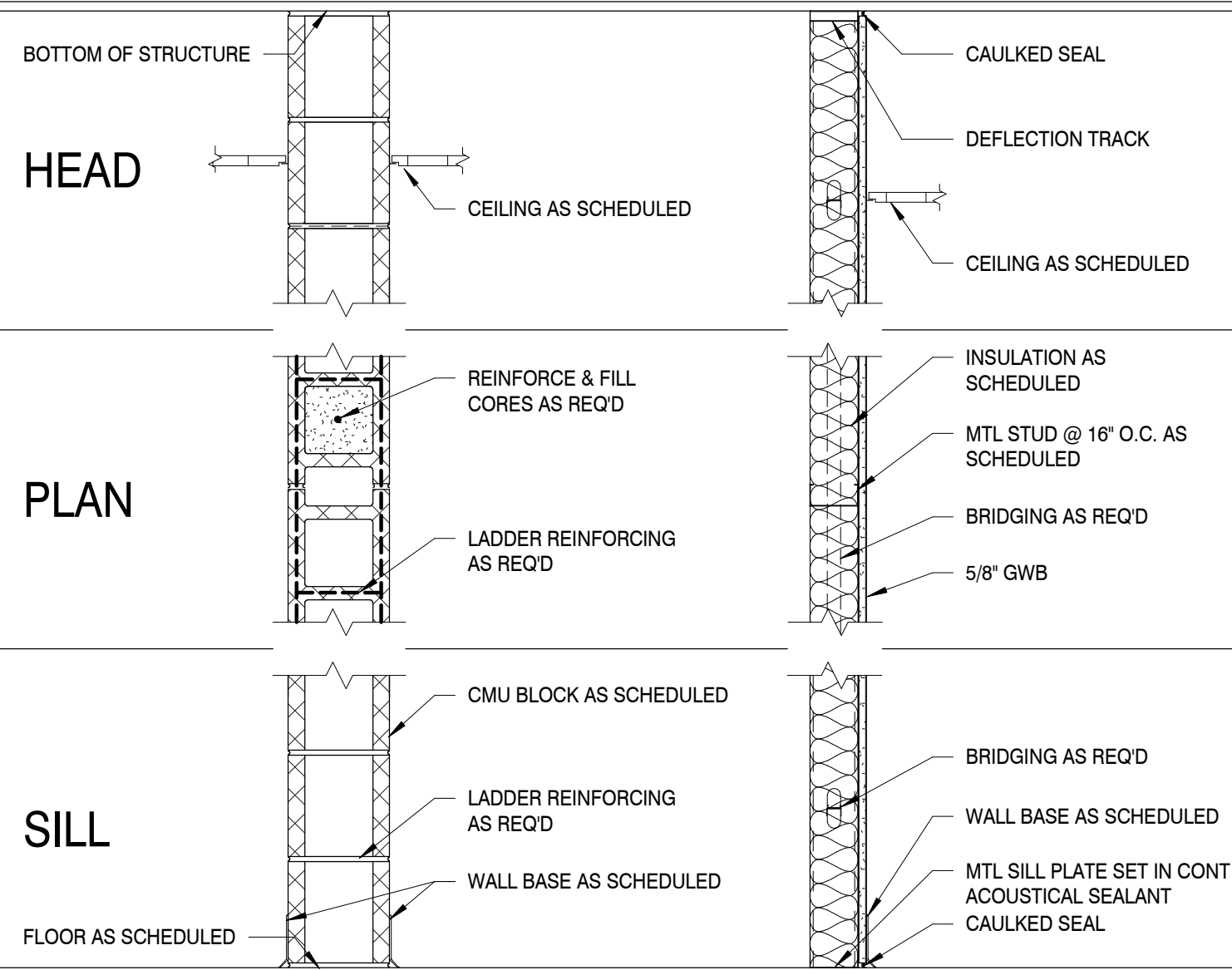
WALL TYPE NOTES:

WALL TYPE TAG	WALL TYPE ID	
WALL TYPE ID	S = METAL STUD M = MASONRY / CMU W = WOOD STUD CH = METAL CH STUD C = CONCRETE	
CORE THICKNESS		
FIRE RATING		
ADDITIONAL COMPONENTS		
STUD WALL FIRE RATING CONSTRUCTION		
WALL RATING	STUD WALL CONSTRUCTION	
0 = NO FIRE RATING	GWB AS SHOWN	
1 = 1 HOUR FIRE RATING	GWB AS SHOWN	
2 = 2 HOUR FIRE RATING	2 LAYERS GWB EACH SIDE	
3 = 3 HOUR FIRE RATING	3 LAYERS GWB EACH SIDE	
4 = 4 HOUR FIRE RATING	4 LAYERS GWB EACH SIDE	
S = SMOKE BARRIER	LAYS AS SHOWN	
STUD WALL CONSTRUCTION		
METAL STUD	WOOD STUD	MASONRY
H = 7/8" HAT CHANNEL	2 = 2x2 STUD	4 = 4" CMU
1 = 1 5/8" STUD	3 = 2x3 STUD	6 = 6" CMU
2 = 2 1/2" STUD	4 = 2x4 STUD	8 = 8" CMU
3 = 3 5/8" STUD	6 = 2x6 STUD	12 = 12" CMU
4 = 4" STUD	8 = 2x8 STUD	
5 = 5 1/2" STUD	10 = 2x10 STUD	
6 = 6" STUD		
8 = 8" STUD		
10 = 10" STUD		
12 = 12" STUD		

WALL TYPE ADDITIONAL COMPONENTS								
ADDITIONAL COMPONENTS GROUP CODE	A	B	C	D	E	F	G	NOTES
ADD SOUND ATTENUATION BATTS	•							
STC RATING	45							
ADD RIGID INSULATION								
ADD SPRAYFOAM INSULATION								
PROVIDE LEAD LINED GYPSUM BOARD								
PROVIDE FOIL LINED GYPSUM BOARD								
PROVIDE SECURITY MESH ABOVE CEILING TO STRUCTURE ABOVE								
ADD SMOKE SEAL								

- NOTES:**
- ALL FIRE RATED WALL ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL 263
 - PROVIDE TYPE-X GWB WHERE WALLS ARE FIRE RATED
 - ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AND SEALED IN ACCORDANCE WITH UL 263
 - PARTITION WALLS ARE UNINSULATED EXCEPT WHERE FIRE RATED OR WHERE NOTED IN THE ADDITIONAL COMPONENTS SCHEDULE.
 - SILL PLATES, TOP PLATES, AND DEFLECTION TRACKS SHALL BE OF SAME SIZE AND GAGE AS STUD
 - WHERE FURRING WALLS ARE UNINSULATED, GWB MAY STOP A MIN. OF 6" ABOVE CEILING
 - COORDINATE LOCATIONS OF EXPANSION JOINTS IN MASONRY WALLS WITH STRUCT DWGS
 - PROVIDE WATER RESISTANT BACKING BOARD ON BOTH SIDES OF WET WALLS WHERE BOTH SIDES ARE WET
 - PROVIDE WATER RESISTANT BACKING BOARD IN LIEU OF GWB AT THE FOLLOWING LOCATIONS:
 - A. WHERE INDICATED BY WALL TYPE
 - B. WET LOCATIONS SUCH AS WATER FOUNTAINS, SHOWER STALLS, TUB SURROUNDS.
 - C. WHERE CERAMIC TILE FINISHES ARE INDICATED. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION.
 - D. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITOR / MOP SINKS
 - WALL TYPES INDICATED ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH PLANS FOR ADDITIONAL INFORMATION.
 - WATER RESISTANT BACKING BOARD SHALL BE TYPE-X AND ON OUTSIDE LAYER WHERE WET WALLS ARE FIRE RATED.

INTERIOR WALL TYPES LEGEND



WALL TYPE ID	DESCRIPTION
M	MASONRY CMU WALL
F	METAL STUD FURRING WALL

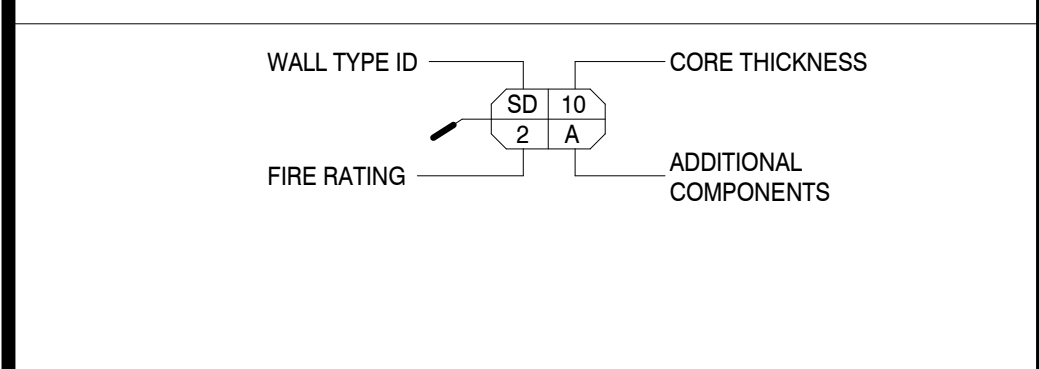
OPAQUE THERMAL ENVELOPE REQ'S

- ROOFS**
INSULATION ENTIRELY ABOVE DECK R-25CI
METAL BUILDING R-19 + R-11 LS W/ R-5 THERMAL BLOCKS (a, b)
ATTIC & OTHER R-38
- WALLS ABOVE GRADE**
MASS R-9.5CI
METAL BUILDING R-13 + R-13CI
METAL FRAMED R-13 + R-7.5CI
WOOD FRAMED AND OTHER R-13 + R-3.8CI OR R-20
- WALLS BELOW GRADE**
BELOW GRADE WALL (d) R-7.5CI
- FLOORS**
MASS R-10CI
JOIST / FRAMING R-30
- SLAB-ON-GRADE FLOORS**
UNHEATED SLAB R-10 FOR 24 BELOW
HEATED SLAB R-15 FOR 24 BELOW
- OPAQUE DOORS**
SWINGING U-0.61
ROLL-UP OR SLIDING R-4.75
- FOR SI: 1 INCH = 25.4 MM. CI = CONTINUOUS INSULATION. NR = NO REQUIREMENT.
- LS = LINER SYSTEM - A CONTINUOUS MEMBRANE INSTALLED BELOW THE PURLINS AND UNINTERRUPTED BY FRAMING MEMBERS. UNCOMPRESSED, UNFACED INSULATION RESTS ON TOP OF THE MEMBRANE BETWEEN THE PURLINS.
- (a) ASSEMBLY DESCRIPTIONS CAN BE FOUND IN ANSI/ASHRAE/IESNA APPENDIX A
- (b) WHERE USING R-VALUE COMPLIANCE METHOD, A THERMAL SPACER BLOCK SHALL BE PROVIDED, OTHERWISE USE THE U-FACTOR COMPLIANCE METHOD IN TABLE C402.1.2.
- (c) R-5.7CI IS ALLOWED TO BE SUBSTITUTED WITH CONCRETE BLOCK WALLS COMPLYING WITH ASTM C 90, UNGROUTED OR PARTIALLY GROUTED AT 32 INCHES OR LESS ON CENTER VERTICALLY AND 48 INCHES OR LESS ON CENTER HORIZONTALLY, WITH UNGROUTED CORES FILLED WITH MATERIALS HAVING A MAXIMUM THERMAL CONDUCTIVITY OF 0.44 BTU-INH-F².
- (d) WHERE HEATED SLABS ARE BELOW GRADE, BELOW-GRADE WALLS SHALL COMPLY WITH THE EXTERIOR INSULATION REQUIREMENTS FOR HEATED SLABS.
- (e) STEEL FLOOR JOIST SYSTEMS SHALL BE INSULATED TO R-38.

WALL LEGEND

- EJ EXTERIOR WALL - BRICK VENEER ON MTL STUD
 - EJ WALL PARTITION - MTL STUD WALL
 - WALL PARTITION - CMU WALL
 - WALL PARTITION - 2 HOUR - CMU WALL - SEE UL905
- EJ = EXPANSION JOINT
• FOR MASONRY EXPANSION JOINTS - SEE STRUCTURAL SHEETS
• BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM.
• SEE INTERIOR WALL TYPES SHEET ON A0.x FOR MORE INFORMATION
• SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL CONSTRUCTION
• INTERIOR WALLS ARE TYPE S-3-0 UNLESS OTHERWISE NOTED
• INTERIOR FURRINGS ARE TYPE F-3-0 UNLESS OTHERWISE NOTED

WALL TYPE TAG



FLOOR PLAN KEYNOTES

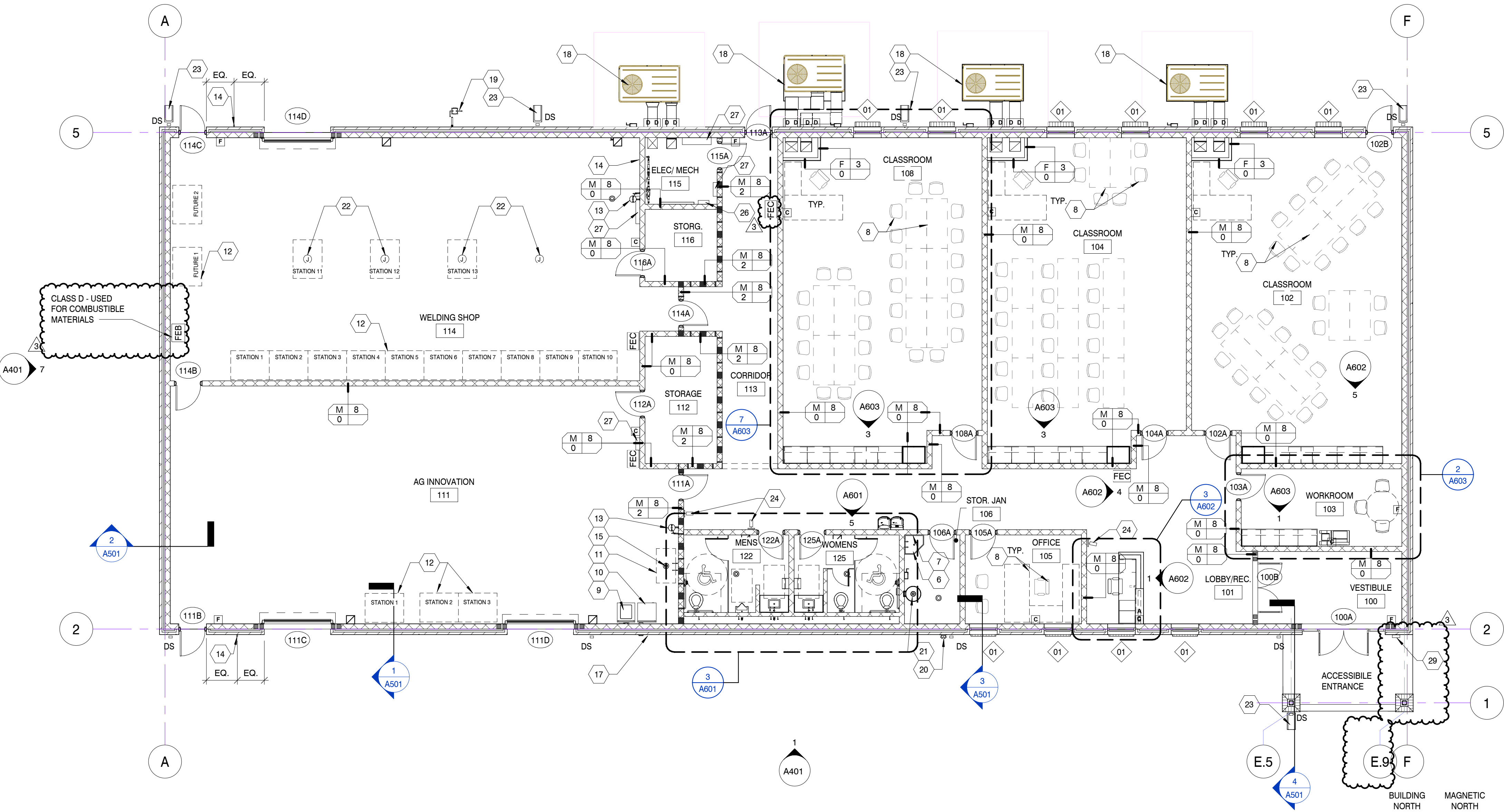
- ALIGN FINISHES
- CONCRETE FLOOR WITH INTEGRAL 4" WALL BASE
- REMOVABLE LAVATORY VANITY - ANGLED APRON
- PRE-ENGINEERED METAL BUILDING COLUMN
- MILLWORK - REFER TO INTERIOR ELEVATIONS
- MOP SINK - SEE PLUMBING. PROVIDE 48" HIGH FRP
- PANEL WAINSCOT AT SIDE AND REAR WALL
- WALL-MOUNTED MOP AND BROOM RACK
- FURNITURE - (N.I.C.)
- WASHER - (O.F.C.I.)
- DRYER - (O.F.C.I.)
- DOG WASH STATION - (O.F.C.I.)
- WELDING STATION - (O.F.C.I.)
- EYE WASH STATION
- HOSE BIB 24" A.F.F.
- FLOOR DRAIN
- PACKAGED UNIT CLEARANCE
- DRYER VENT THRU
- PACKAGED UNIT
- GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI
- FIRE DEPARTMENT INLET CONNECTION
- HOT WATER HEATER
- CEILING RETRACTABLE COIL EXTENSION CORD REEL
- SPLASHBLOCK
- CAMERA SYSTEM THAT MONITORS EACH ENTRANCE HALLWAY. MOUNTING HEIGHT TO BE VERIFIED WITH OWNER.
- PRINTER - (O.F.C.I.)
- FIRE ALARM CONTROL PANEL
- PANELBOARD
- PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS. GROMMET LOCATIONS TO BE VERIFIED BY OWNER.
- KNOX BOX FOR FIRE DEPARTMENT AND EMERGENCY SERVICES.

UL DESIGN NO. U905

March 17, 2004
Bearing Wall Rating - 2 HR.
Nonbearing Wall Rating - 2 HR
Load Restricted for Canadian Applications - See Guide BUVW

Horizontal Section

- Concrete Blocks* - Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.
- Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
- Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
- Loose Masonry Fill - If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill expanded add 2 hr to classification.
- Foamed Plastic* - (Optional-Not Shown) - 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). THE DOW CHEMICAL CO - Type Thermax



NOTED FLOOR PLAN

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

TFM # 00017-D
PROJECT # 2023-10-31-01



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
3	05.20.2024	REVISION #3

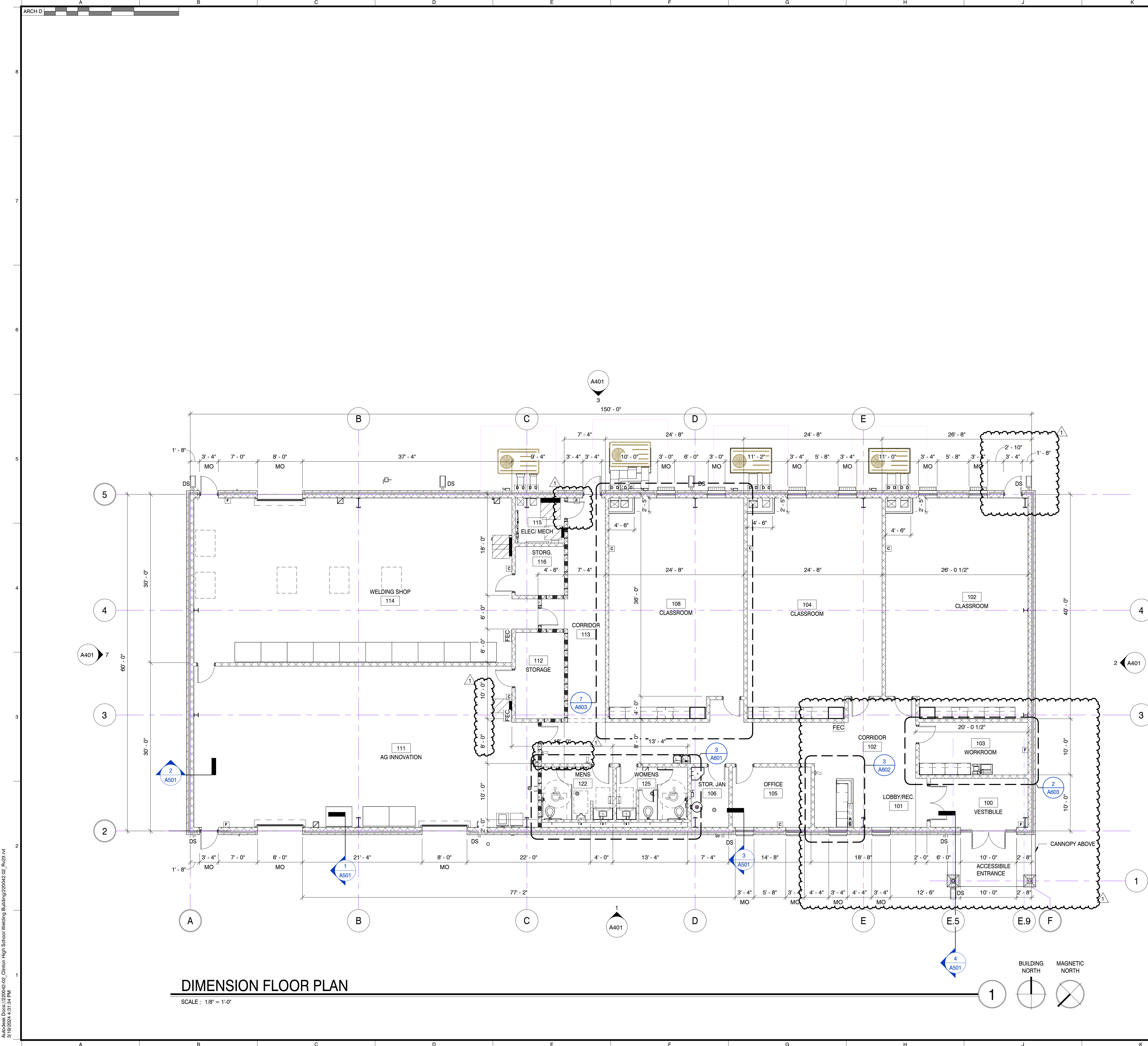
KEY PLAN

SHEET INFORMATION

SHEET ISSUED:	10/06/2023
DESIGNED BY:	CMG
DRAWN BY:	MDC
REVIEWED BY:	CMG
SHEET TITLE:	

NOTED FLOOR PLANS
SHEET NO.: A101

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DIMENSION FLOOR PLAN
SCALE: 1/8" = 1'-0"

WALL LEGEND

- EXTERIOR WALL - BRICK VENEER ON MTL STUD
- WALL PARTITION - MTL STUD WALL
- WALL PARTITION - CMU WALL
- WALL PARTITION - 2 HOUR - CMU WALL - SEE UL905

- EJ = EXPANSION JOINT
- FOR MASONRY EXPANSION JOINTS - SEE STRUCTURAL SHEETS
- BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM.
- SEE INTERIOR WALL TYPES SHEET ON A0.X FOR MORE INFORMATION
- SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL CONSTRUCTION
- INTERIOR WALLS ARE TYPE S-3-0 UNLESS OTHERWISE NOTED
- INTERIOR FURRINGS ARE TYPE F-3-0 UNLESS OTHERWISE NOTED

WALL TYPE TAG

WALL TYPE ID: CORE THICKNESS: 10
FIRE RATING: SD 2 ADDITIONAL COMPONENTS: A

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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PROJECT INFORMATION
PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
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- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: CMG
DRAWN BY: MDC
REVIEWED BY: CMG
SHEET TITLE:

DIMENSION FLOOR PLANS
SHEET NO.: A102

TFM # 00017-D
PROJECT # 2023-10-31-01

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D

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DOOR AND FRAME SCHEDULE

DOOR NUMBER	D-TYPE	DOOR PANELS								DOOR FRAME								DETAILS			H-WARE	REMARKS
		THICK	HEIGHT	FULL WIDTH	PANEL CONFIG	LEAF (LEAF)	D-MAT	D-FINISH	LABEL	SCHED FRAME CW/SF	FRAME TYPE	F-TYPE CW/SF	F-HEIGHT	F-WIDTH	DOOR HEAD	DOOR JAMBS	F-MAT	F-FINISH	HEAD	JAMB		
100A	AG	3/4"	7'-0"	6'-0"	PAIR - SWING	3'-0" (3'-0")	AL/GL	PAINTED		S	S	7'-2"	6'-4"	2"	2"	HM	PAINTED	1/A201	13/A201	9/A202	1	CARD READER ACCESS
100B	FG	1 3/4"	7'-0"	6'-0"	PAIR - SWING	3'-0" (3'-0")	AL/GL	PAINTED		S	S	7'-2"	6'-4"	2"	2"	HM	PAINTED	1/A201	13/A201	9/A202	6	
100C	N	1 3/4"	7'-0"	6'-0"	PAIR - SWING	3'-0" (3'-0")	AL/GL	PAINTED		S	S	7'-2"	6'-4"	2"	2"	HM	PAINTED	1/A201	13/A201	9/A202	6	
103A	F	3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	12	
104A	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	6	
105A	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-4"	3'-4"	4"	2"	HM	PAINTED	2/A201	2/A201	--	11	
106A	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-4"	3'-4"	4"	2"	HM	PAINTED	2/A201	2/A201	--	5	
108A	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	6	
111A	UN	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	4	
111B	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	HM	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	3	
111C	OC	3"	10'-0"	8'-0"	OHD COILING	8'-0"	STL	PRE-FINISHED		N/A	N/A	10'-0"	8'-0"			STL	PRE-FINISHED	8/A202	7/A202	6/A202	--	
111D	OC	3"	10'-0"	8'-0"	OHD COILING	8'-0"	STL	PRE-FINISHED		N/A	N/A	10'-0"	8'-0"			STL	PRE-FINISHED	8/A202	7/A202	6/A202	--	
112A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	8	
113A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	HM	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	11/A202	10/A202	9/A202	3	
114A	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	4	
114B	N	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	9	
114C	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	HM	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	11/A202	10/A202	9/A202	3	
114D	OC	3"	10'-0"	8'-0"	OHD COILING	8'-0"	STL	PRE-FINISHED		N/A	N/A	10'-0"	8'-0"			STL	PRE-FINISHED	8/A202	7/A202	6/A202	--	
115A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	5	PANIC HARDWARE AND DOOR CLOSER
116A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	7	
122A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-2"	3'-4"	2"	2"	HM	PAINTED	2/A201	2/A201	--	10	
125A	F	1 3/4"	7'-0"	3'-0"	SINGLE - SWING	3'-0"	WD	PAINTED		S	S	7'-4"	3'-4"	4"	2"	HM	PAINTED	2/A201	2/A201	--	10	

GLAZING SCHEDULE

- IG 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES
- IG-T 1" THICK INSULATED GLASS WITH 1/2" AIR SPACE AND TWO 1/4" LITES, FULLY TEMPERED
- E ENTRY-RESISTANT FILM FILM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION
- F 5/16" CLEAR AND WIRELESS FIRE-RATED GLASS CERAMIC (20 MIN - 3 HOUR FOR DOORS, 20 MIN - 90 MIN IN OTHER APPLICATIONS) FIRE RATING LISTED AND LABELED BY UL FOR FIRE RATING SCHEDULED AT OPENING LOCATIONS ON DRAWINGS. WHEN TESTED IN ACCORDANCE WITH ASTM E2074 AND E2010, NFPA 252 AND 257, AND UL 9, 10B AND 10C.

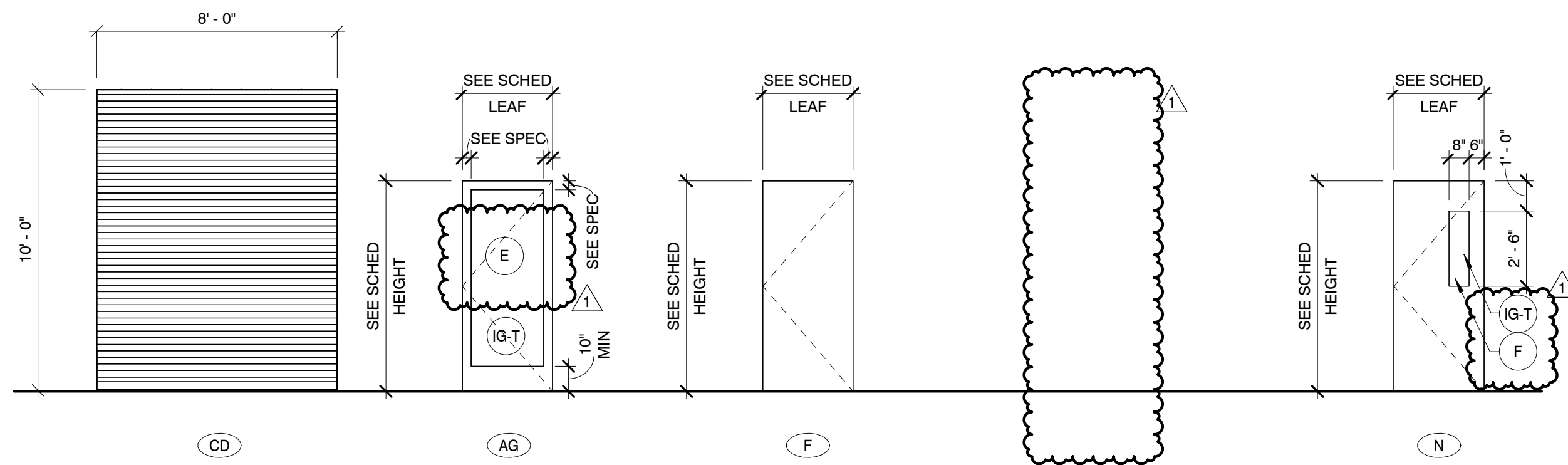
GENERAL WINDOW NOTES

1. ALL GRADES SHOWN HERE ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ALL GRADES PRIOR TO BIDDING AND BE RESPONSIBLE FOR ANY ADDITIONAL WORK THAT THE VARYING GRADES MAY REQUIRE TO COMPLETE THE SCOPE OF WORK.
2. CONTRACTOR TO FIELD VERIFY EXACT NUMBER OF WINDOWS EXISTING PRIOR TO BIDDING AND IS RESPONSIBLE FOR REPLACING ALL WINDOWS IN ALL BUILDINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. ALL NEW WINDOWS IN EXISTING BATHROOMS ARE TO HAVE FROSTED TRANSLUCENT GLASS.
4. VERIFY EXACT SIZE OF EXISTING OPENINGS IN FIELD. PROVIDE SHIMS AND OR BLOCKING AS REQ'D TO ALLOW FOR NEW WINDOW INSTALLATION.
5. REPAIR/REPLACE ALL CAULK AS REQ'D. VERIFY CONDITION W/ OWNER'S REPRESENTATIVE PRIOR TO START OF DEMO WORK.
6. ALL WINDOWS TO HAVE VINYL MINI BLINDS, PROVIDED AND INSTALLED BY CONTRACTOR.
7. ALL WINDOWS IN DOORS AND NEXT TO DOORS TO HAVE TEMPERED GLASS.
8. PROVIDE AN ADDITIONAL (12) TOP WINDOW PANELS, AN ADDITIONAL (12) BOTTOM WINDOW PANELS FOR EACH WINDOW TYPE. PROVIDE THESE ADDITIONAL WINDOWS TO THE OWNER AT TIME OF PROJECT CLOSE-OUT.
9. ALL WINDOWS TO INCLUDE INSECT SCREENS.
10. ALL NEW WINDOWS IN EXISTING BEDROOMS SHALL MEET MIN. REQUIREMENTS OF NFPA 2003: SECTION 33.2.2.3. FOR EGRESS CLEARANCE

NOTES:
SEE SPECIFICATIONS FOR ALUMINUM FRAME REQUIREMENTS.
SEE DETAILS FOR ADDITIONAL DIMENSIONS AND INFORMATION.

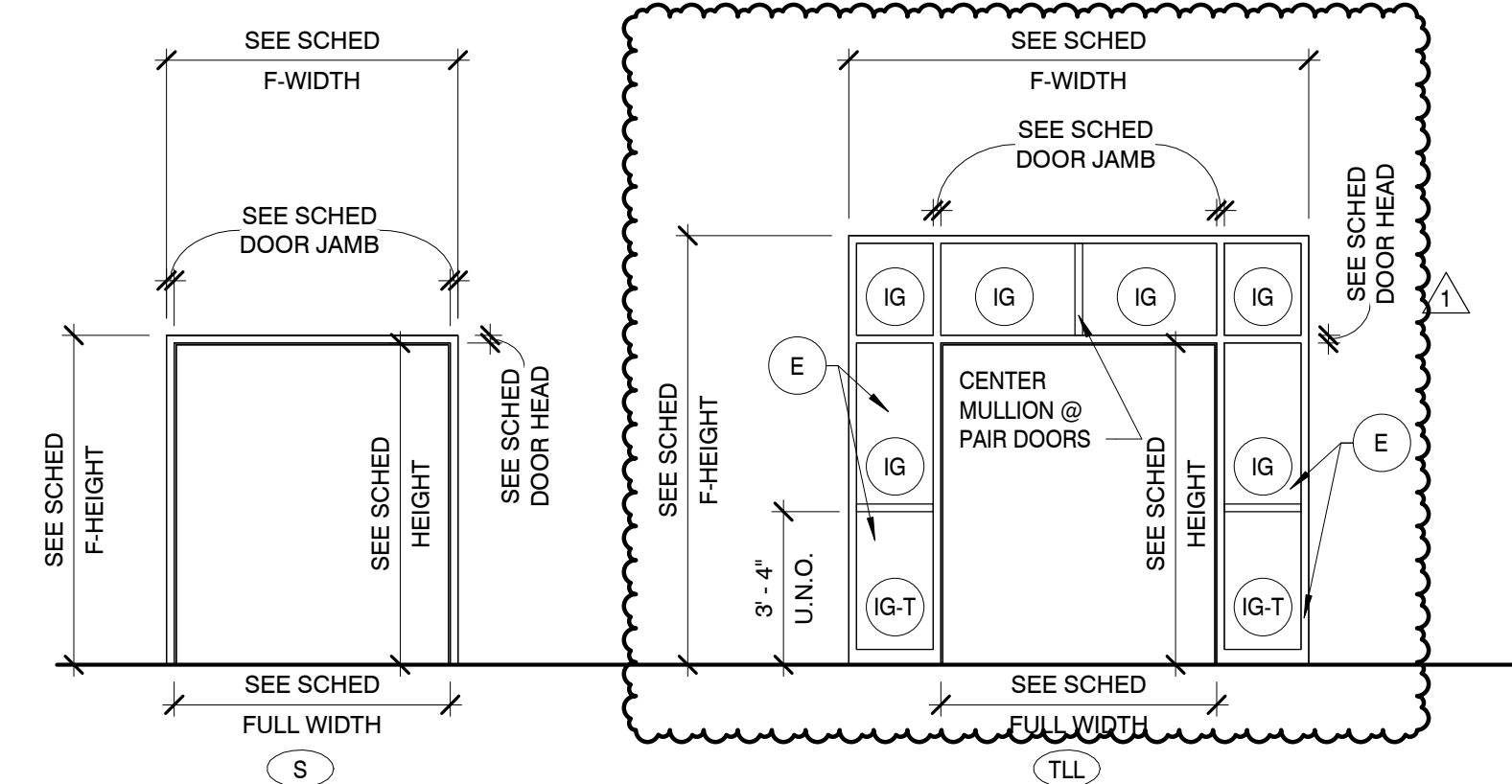
GENERAL DOOR NOTES

1. INTERIOR WOOD DOORS TO BE FACTORY FINISH. WOOD SPECIES TO BE ROTARY CUT BIRCH.
2. EXTERIOR HOLLOW METAL DOORS ARE TO BE INSULATED.
3. EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE FACTORY PRIMED AND FIELD PAINTED.



DOOR TYPES

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



DOOR FRAME TYPES

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

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TENNESSEE STATE FIRE MARSHAL'S OFFICE

MBI COMPANIES INC.
290 N. WEISGARDER ROAD
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CONSULTANT

VALERIE DOWLEN MPPR
REGISTERED ARCHITECT
NO. 10459
STATE OF TENNESSEE
12/24

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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:

411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.:

220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN



SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: CMG
DRAWN BY: MDC
REVIEWED BY: CMG
SHEET TITLE:

DOOR SCHEDULE, DOOR/FRAME ELEVATIONS

SHEET NO.:

A201

TFM # 00017-D
PROJECT # 2023-10-31-01

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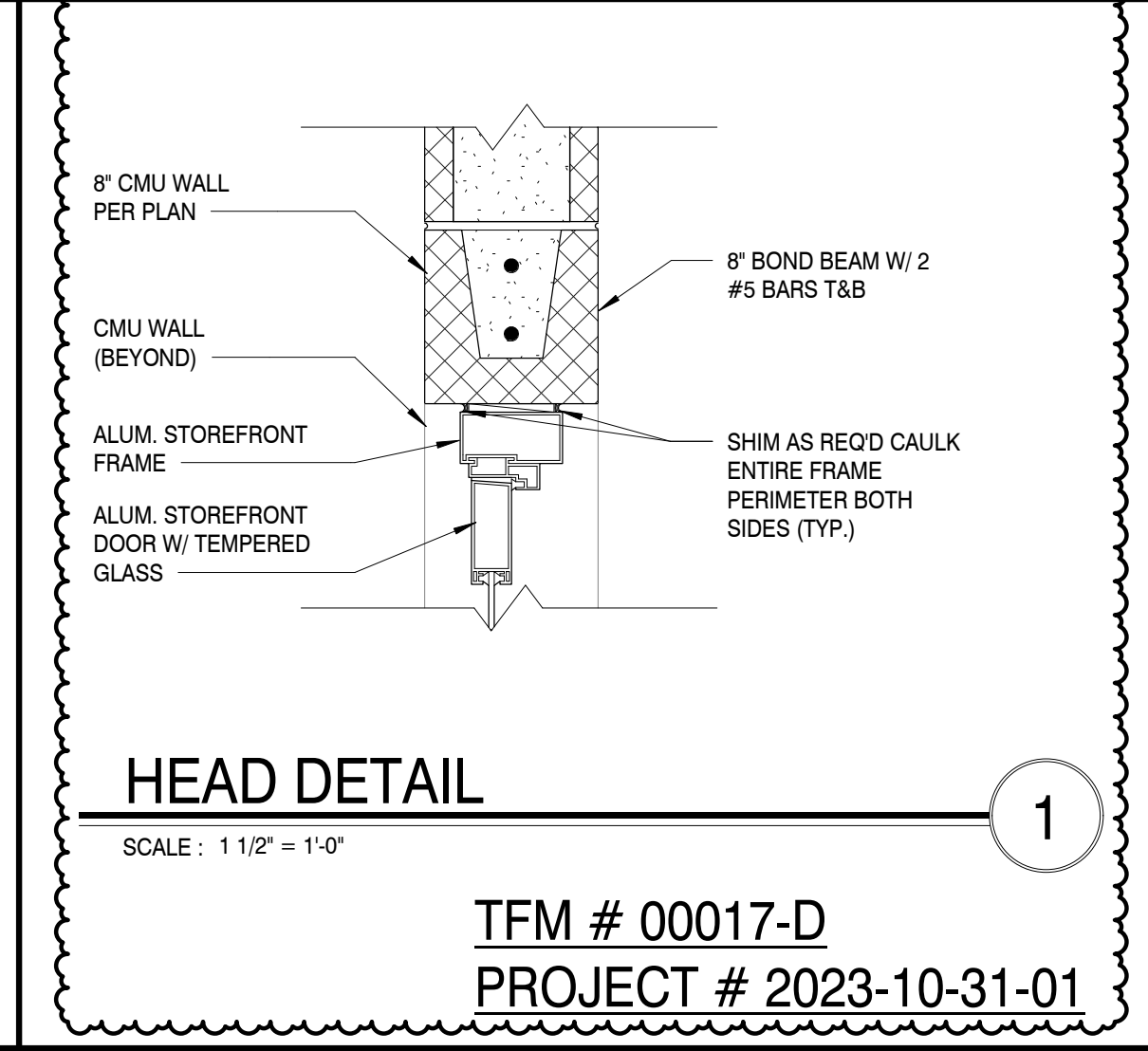
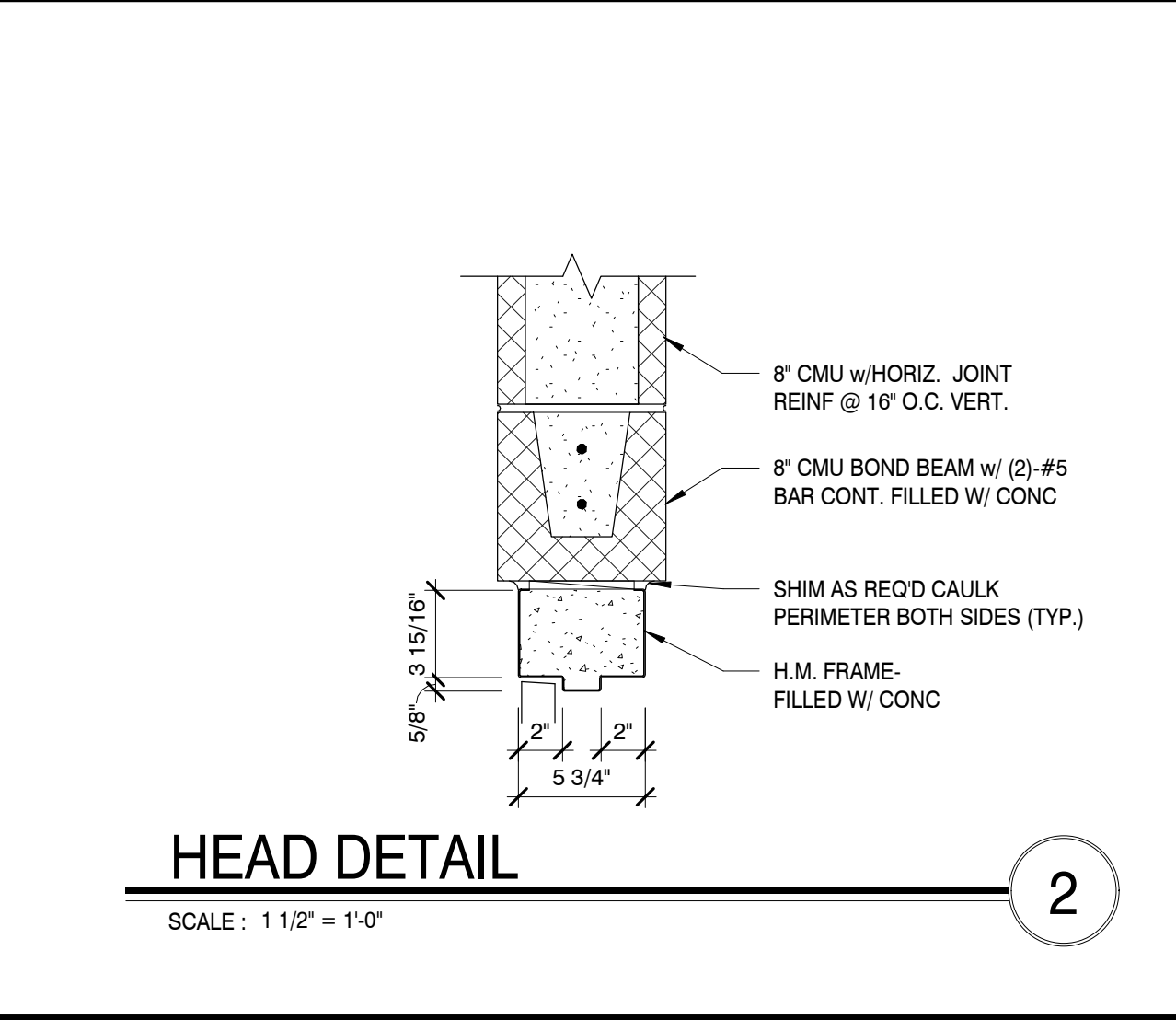
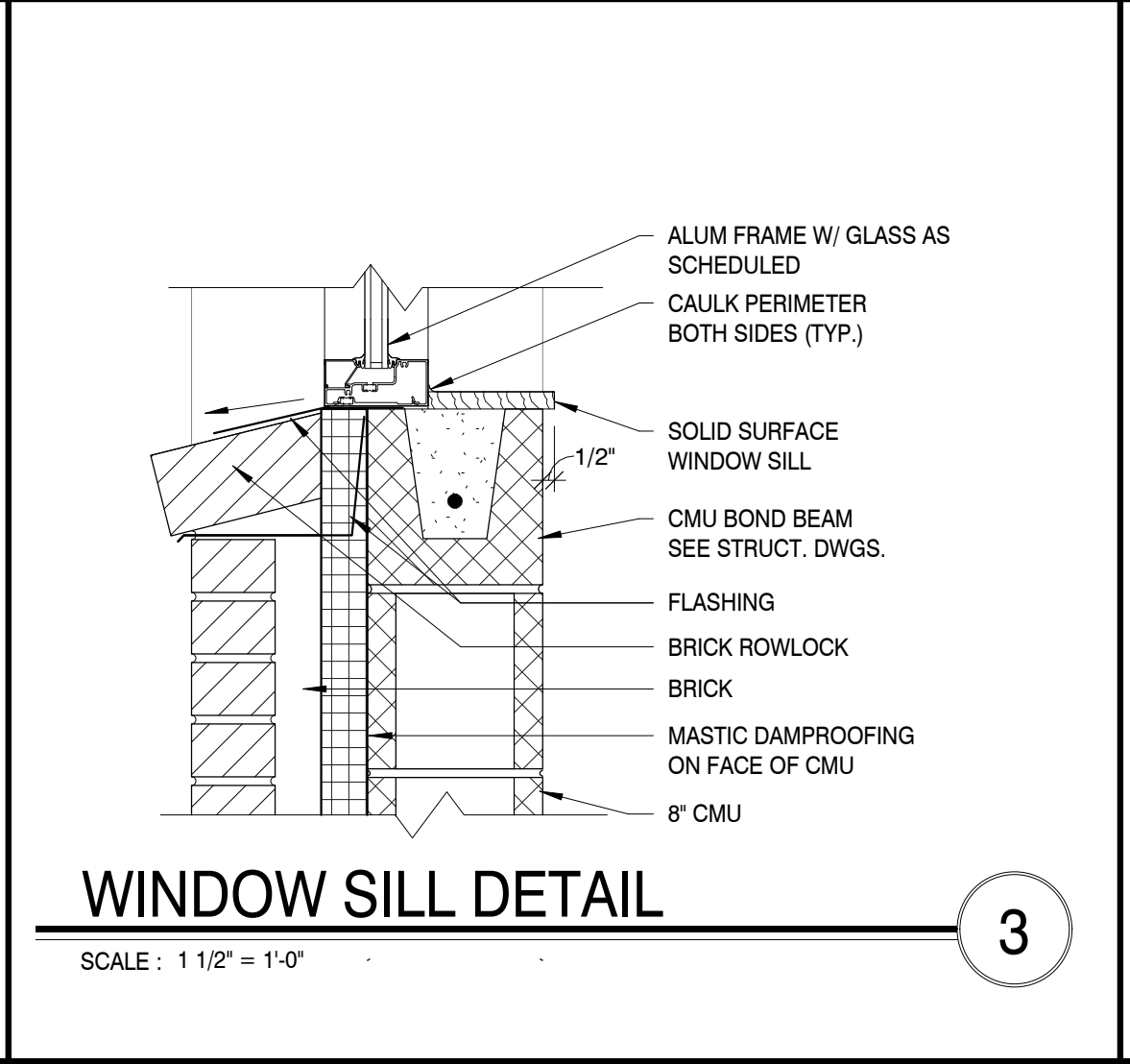
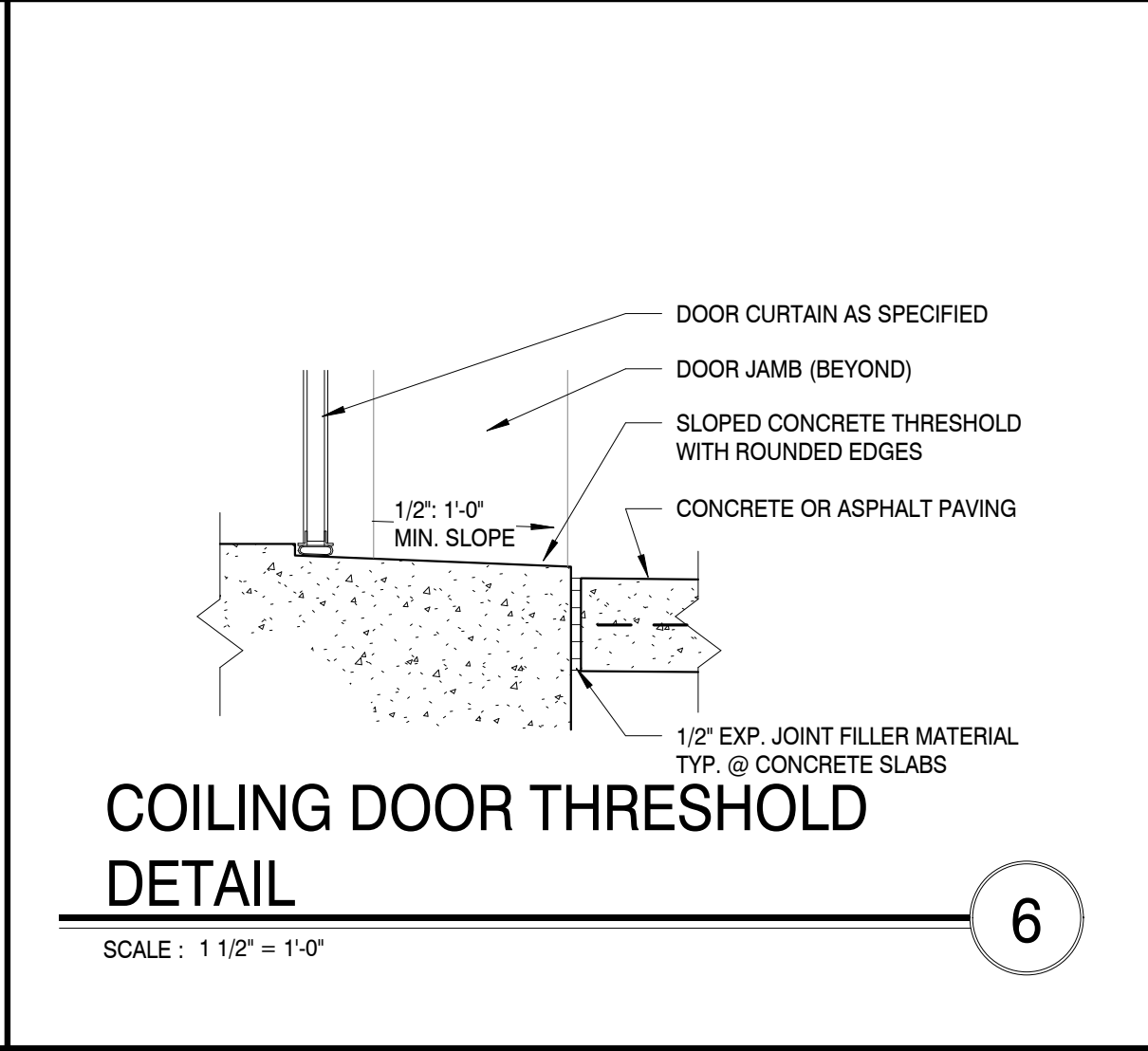
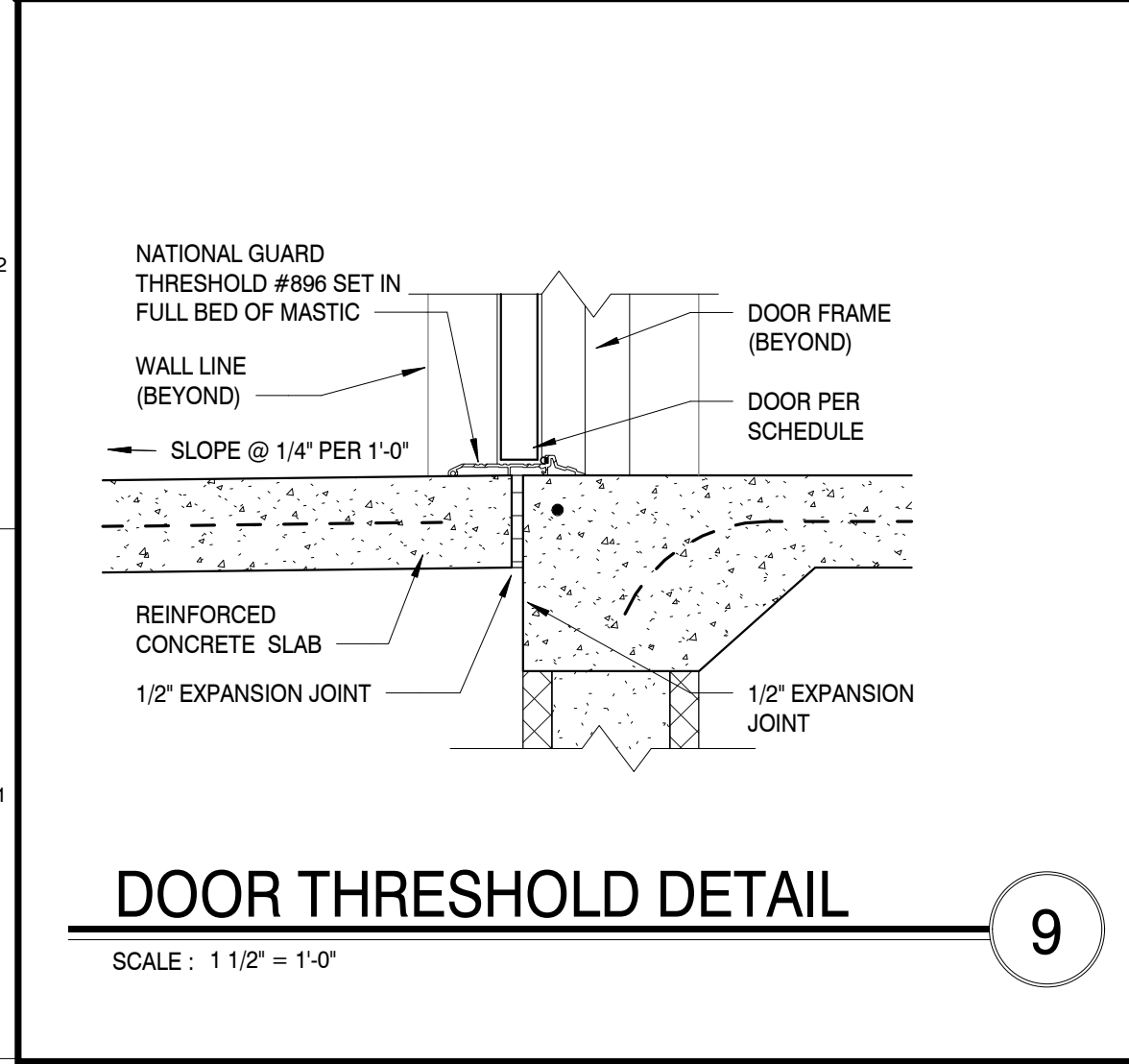
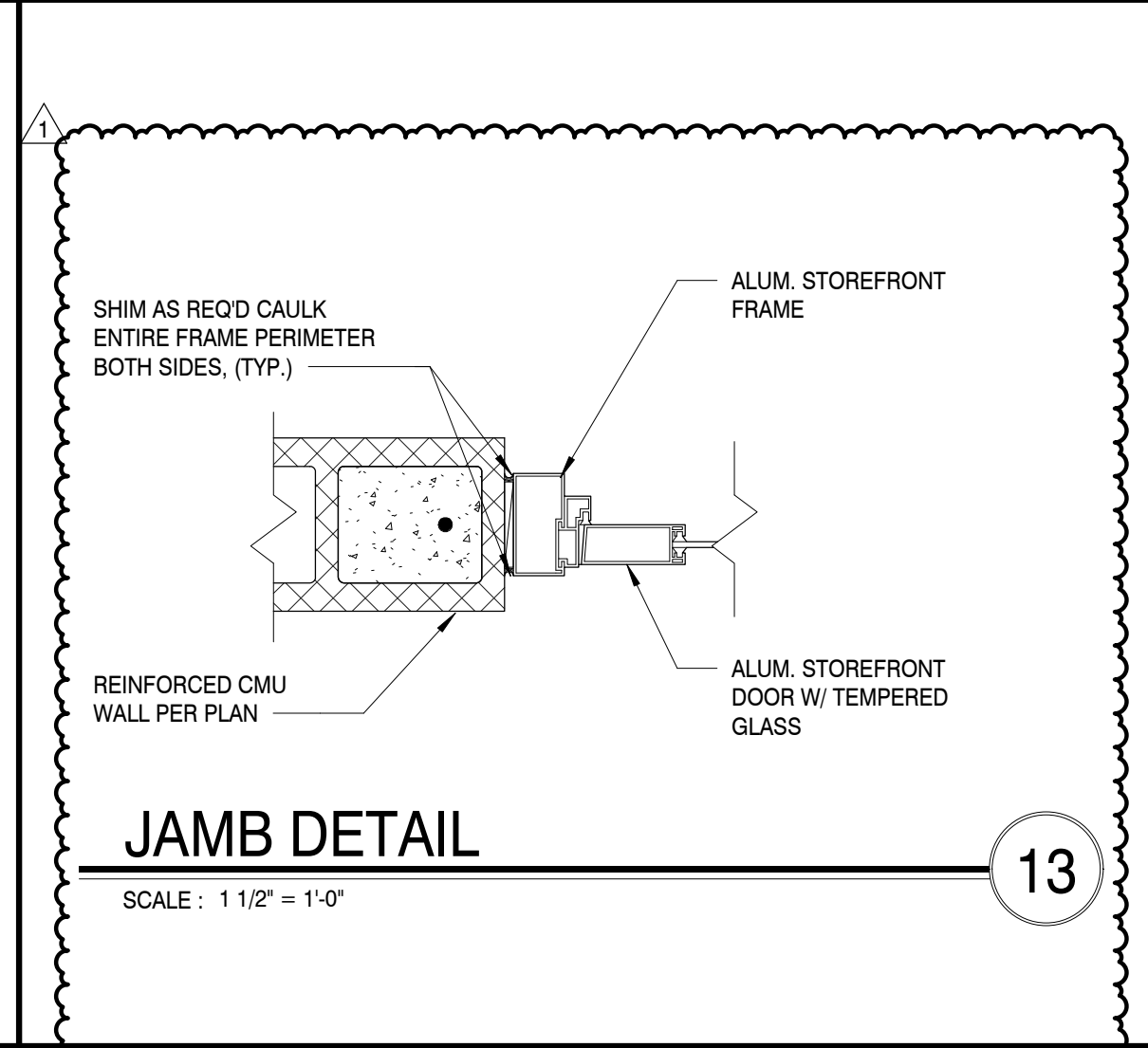
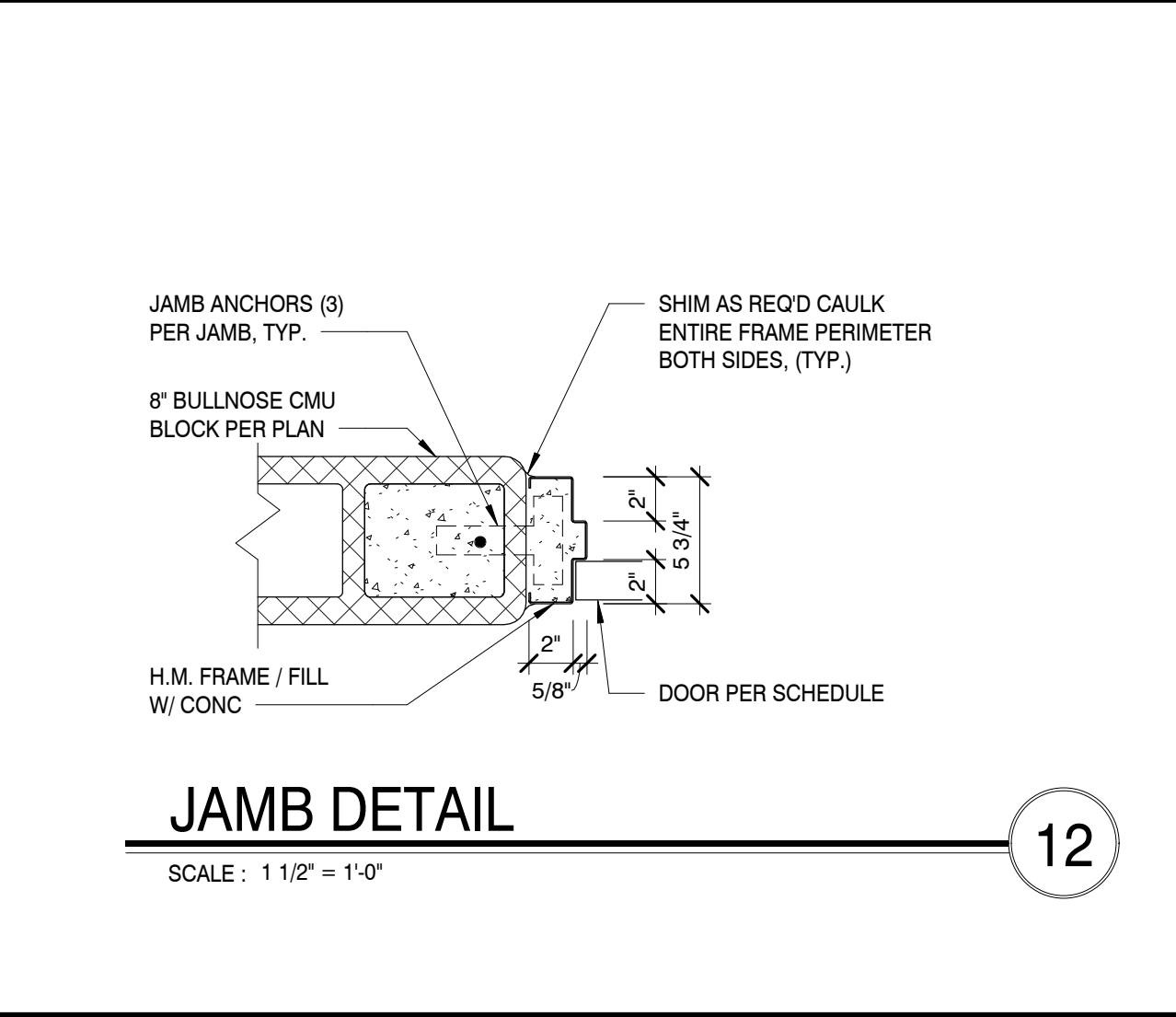
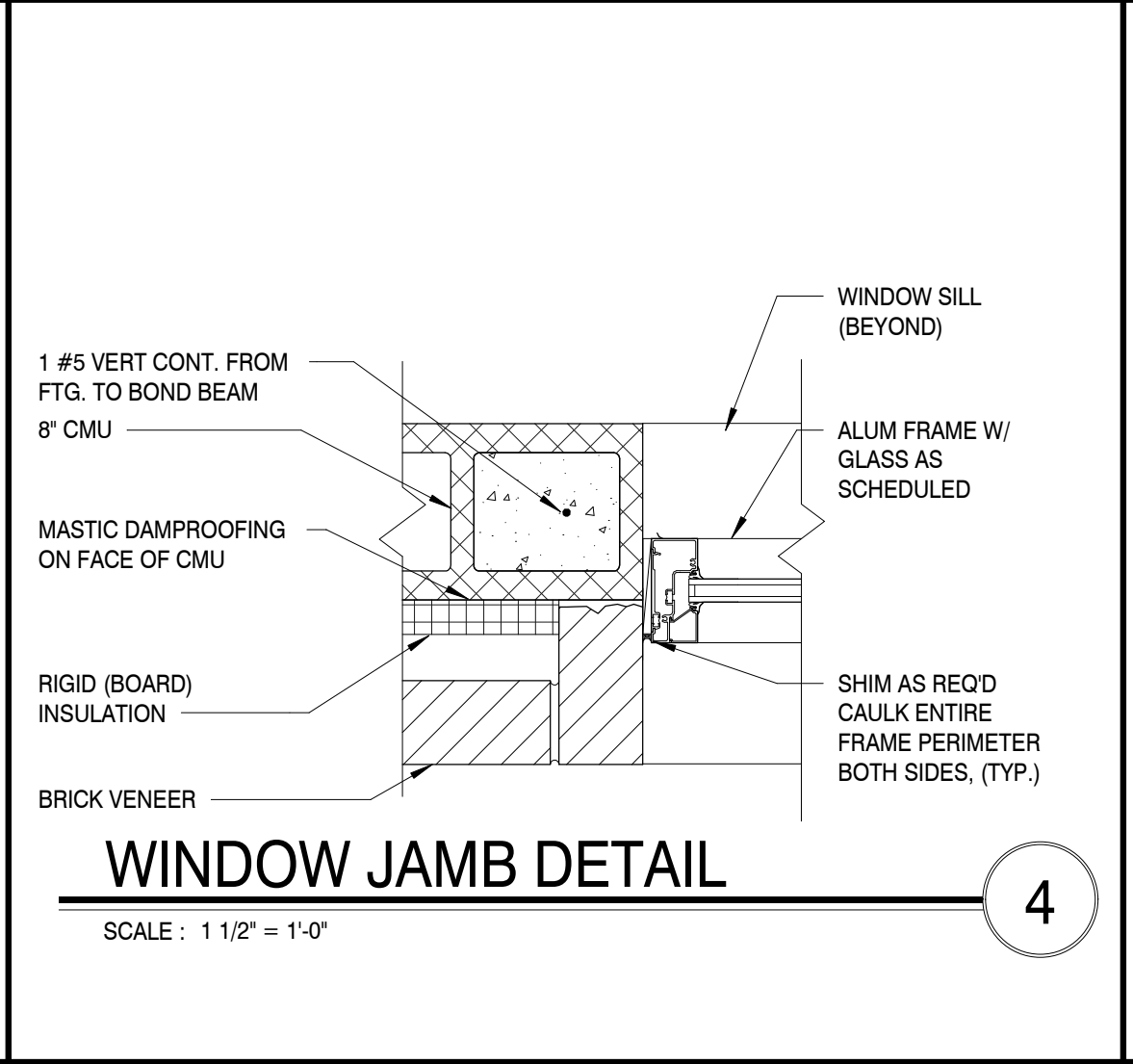
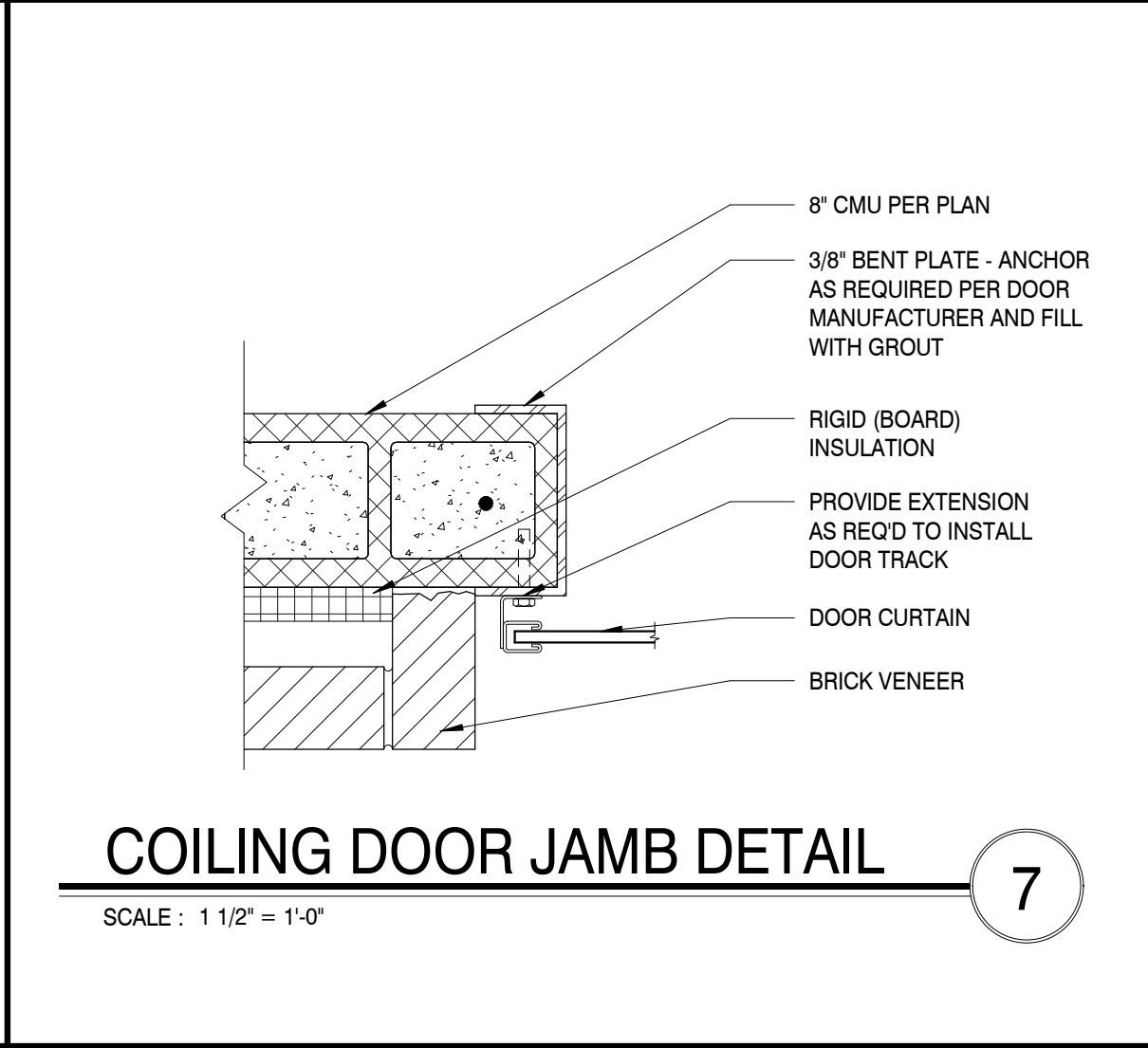
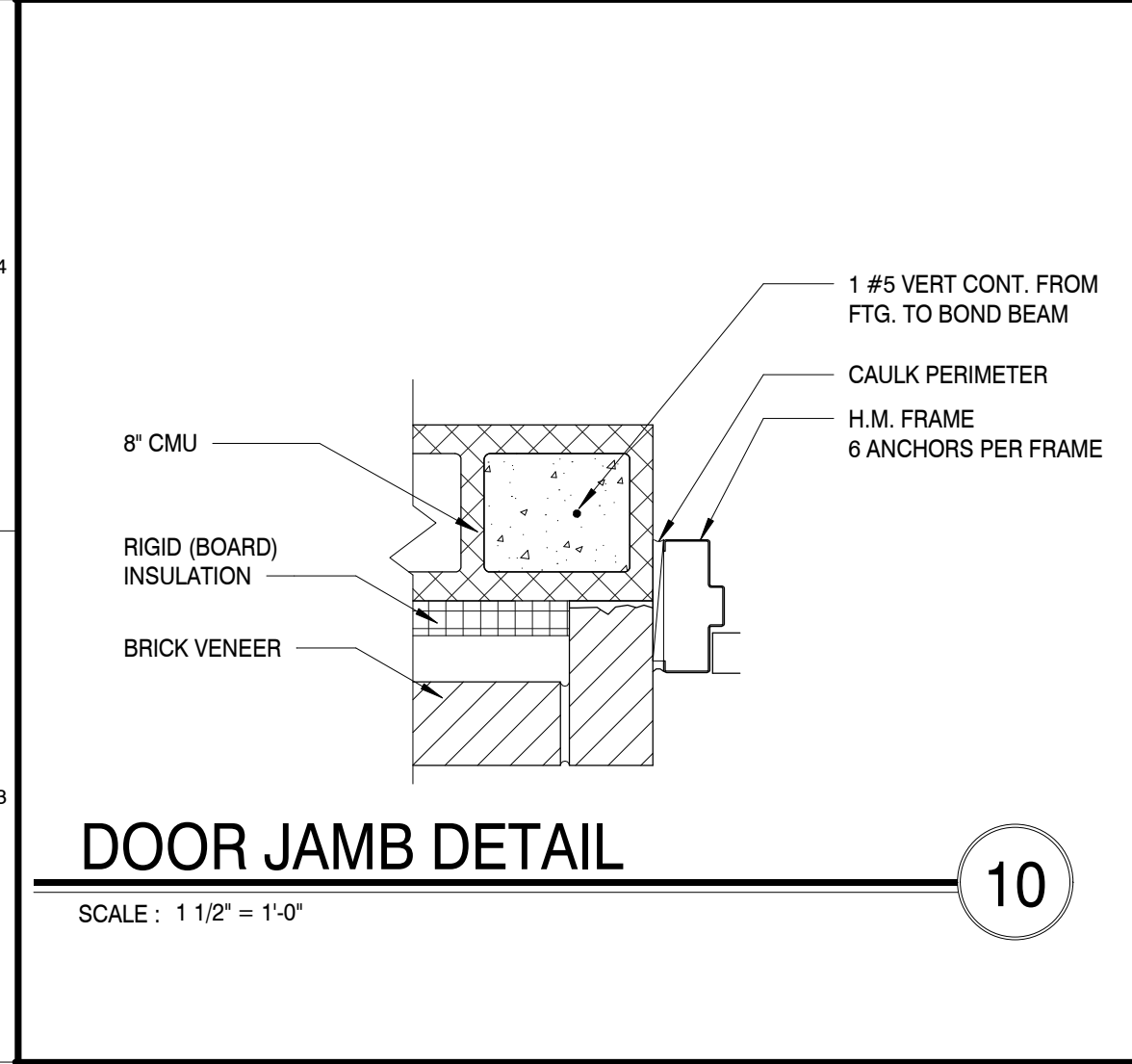
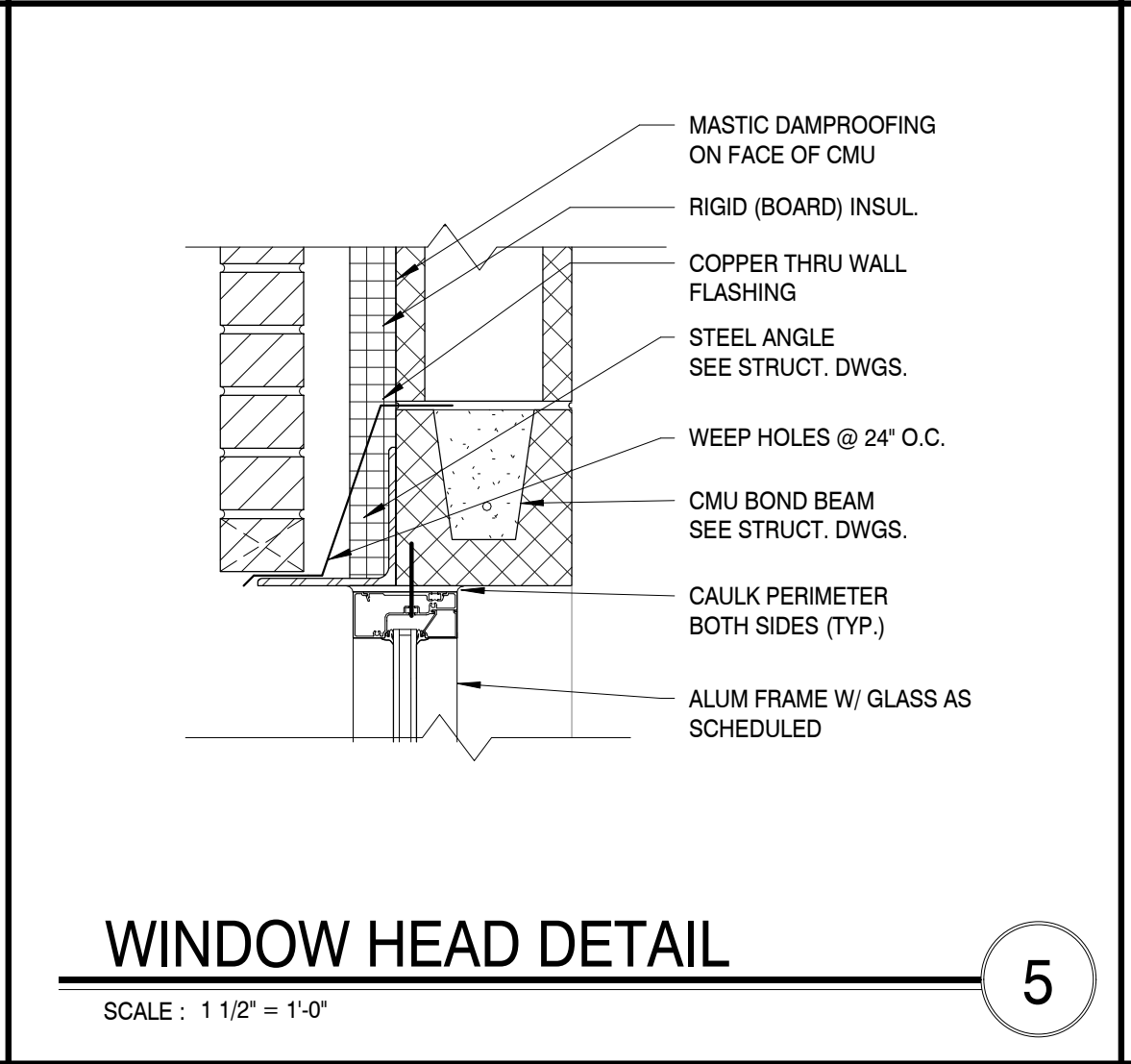
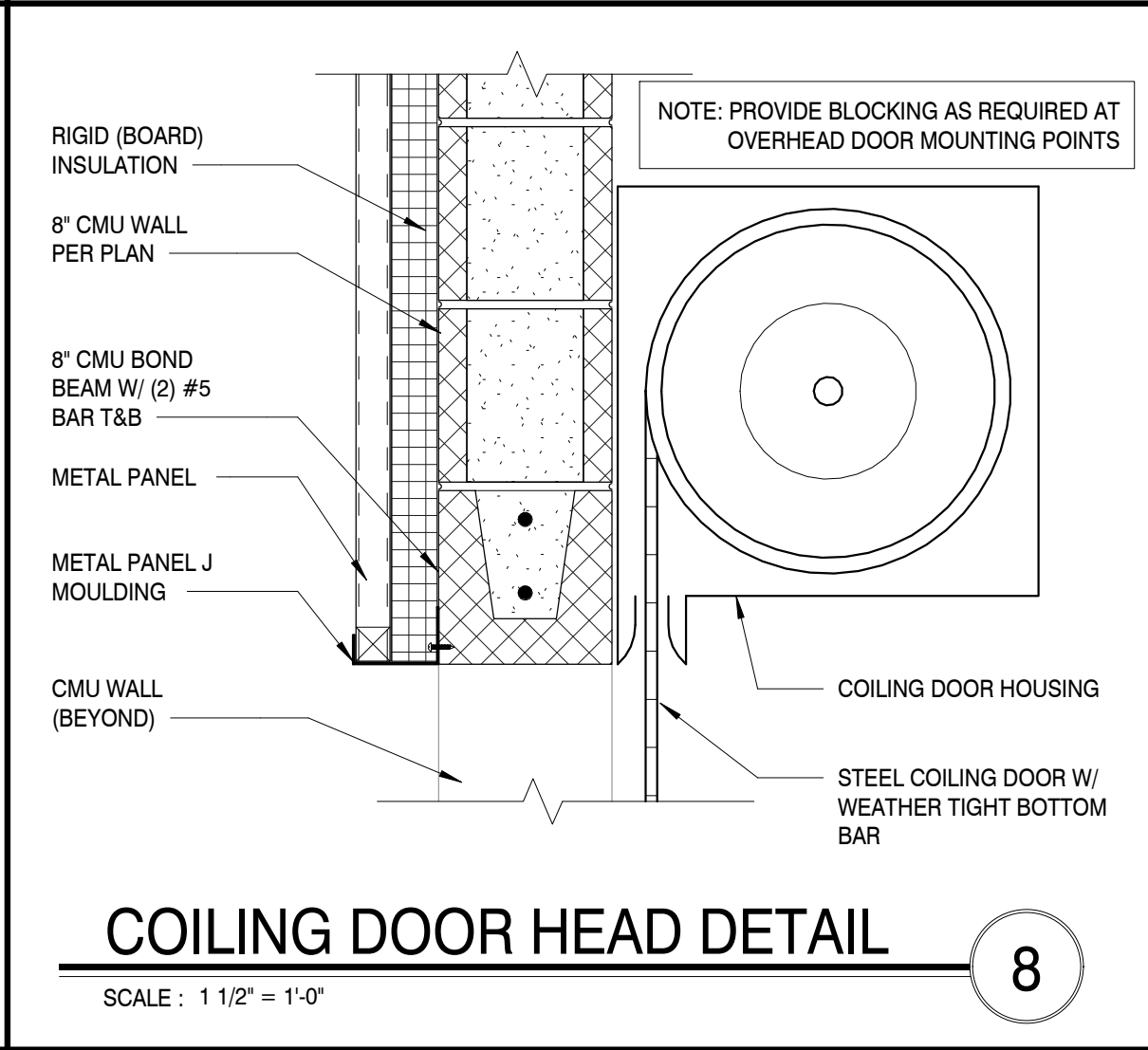
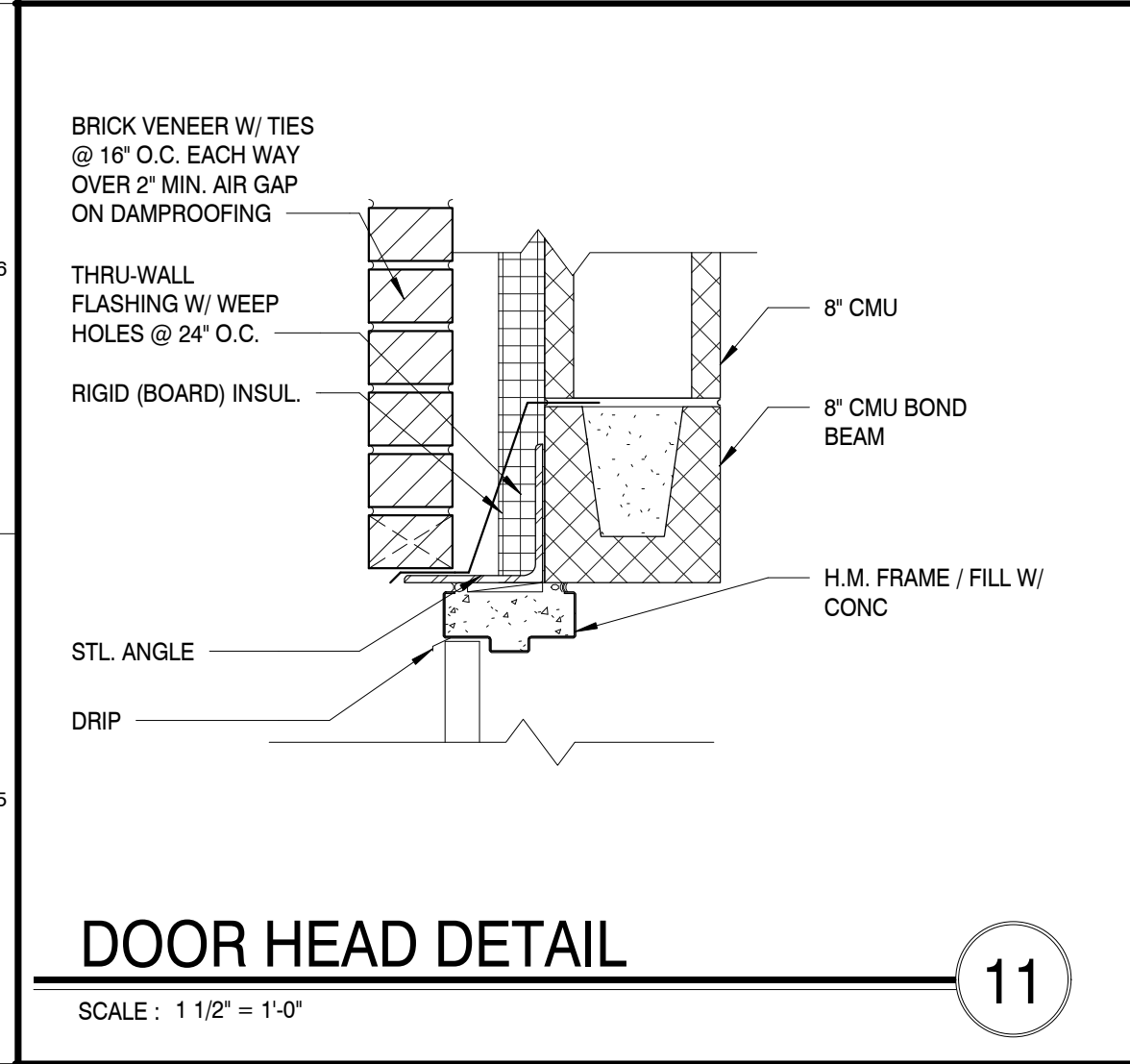
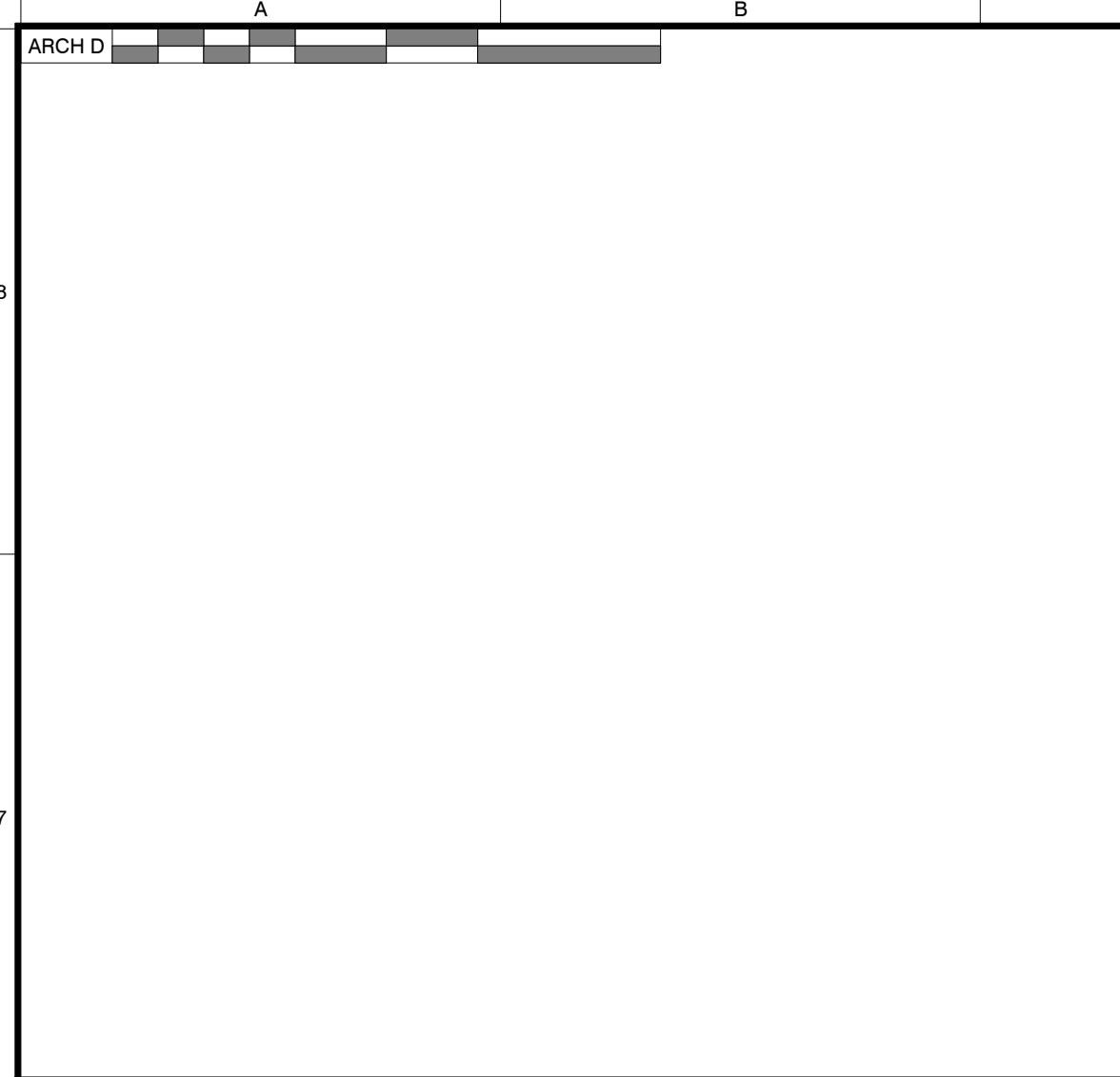
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CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
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- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/29/2024	ADDENDUM #01

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
 SHEET TITLE:

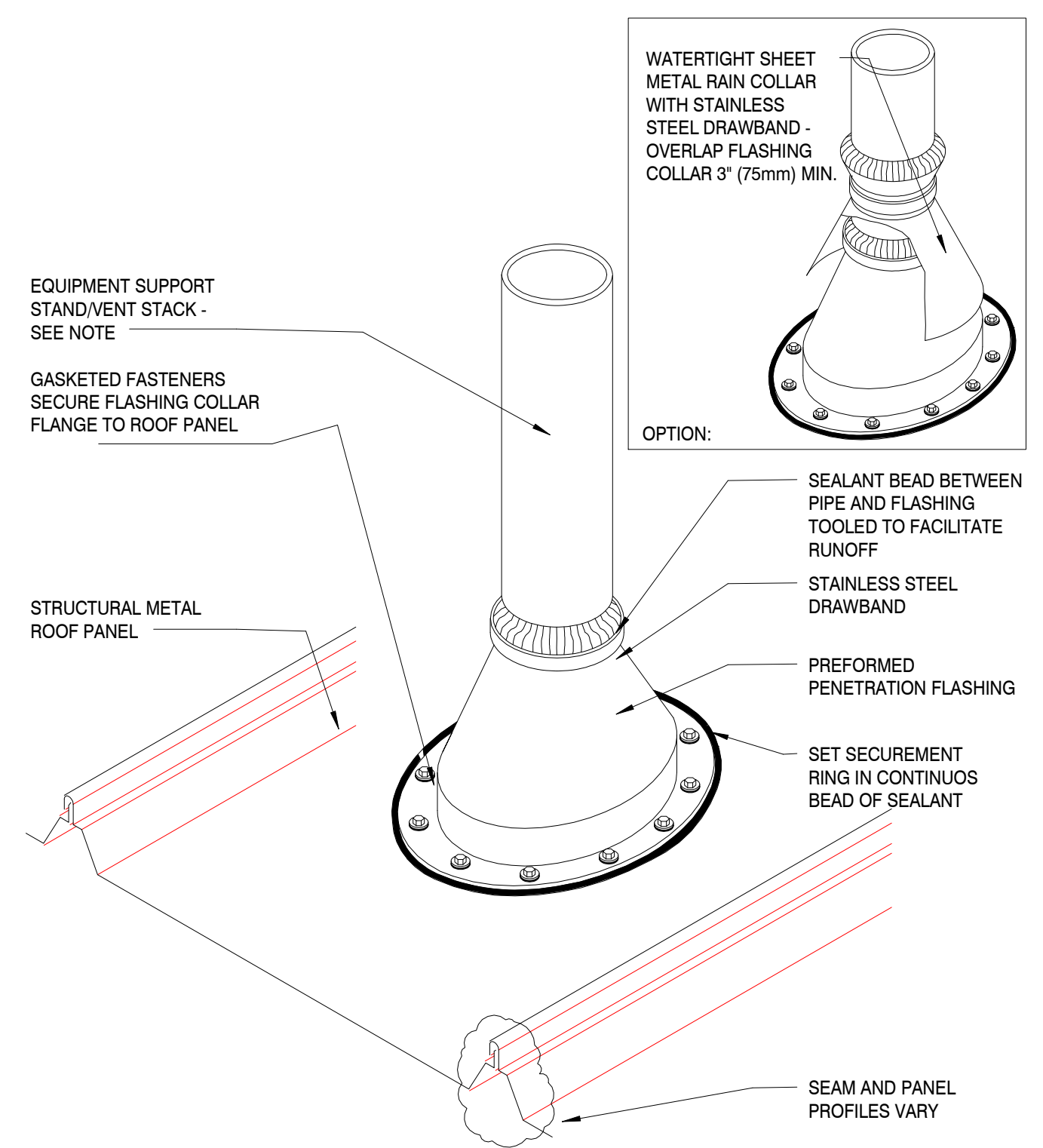
DOOR AND WINDOW DETAILS

SHEET NO.: **A202**

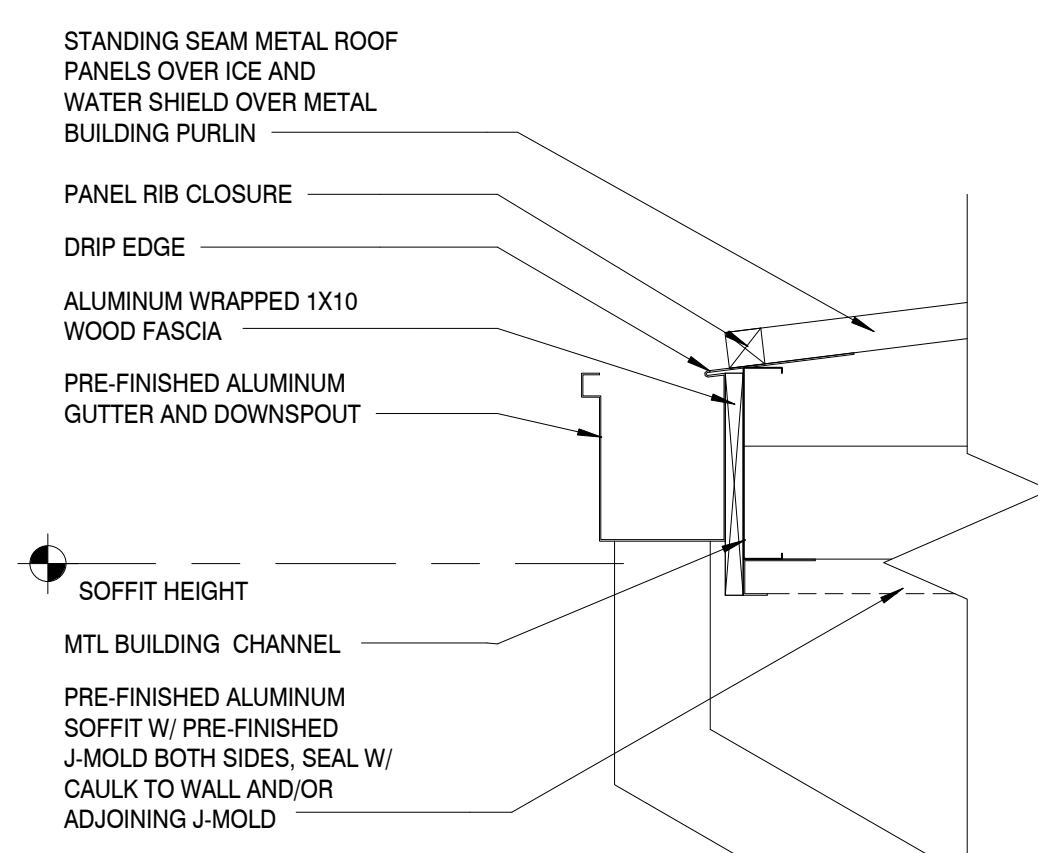
TFM # 00017-D
 PROJECT # 2023-10-31-01

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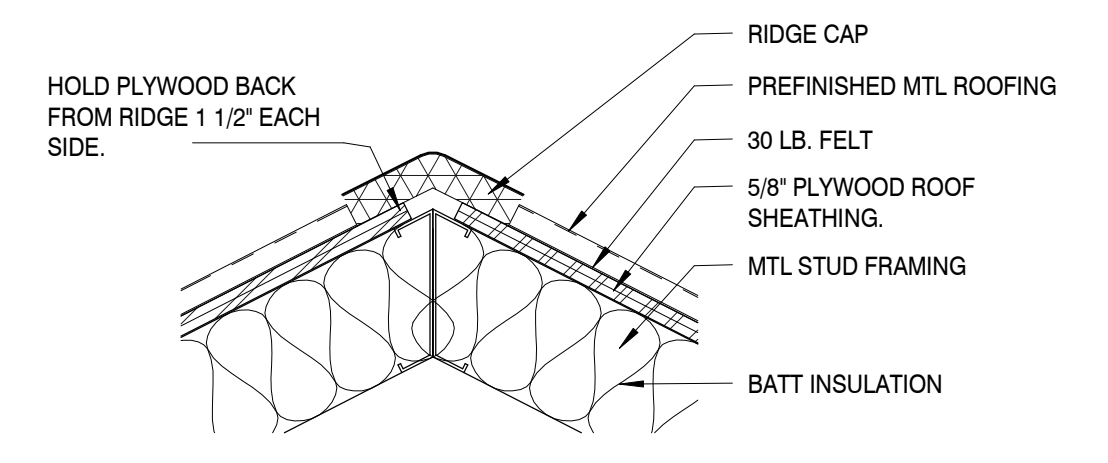
PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D



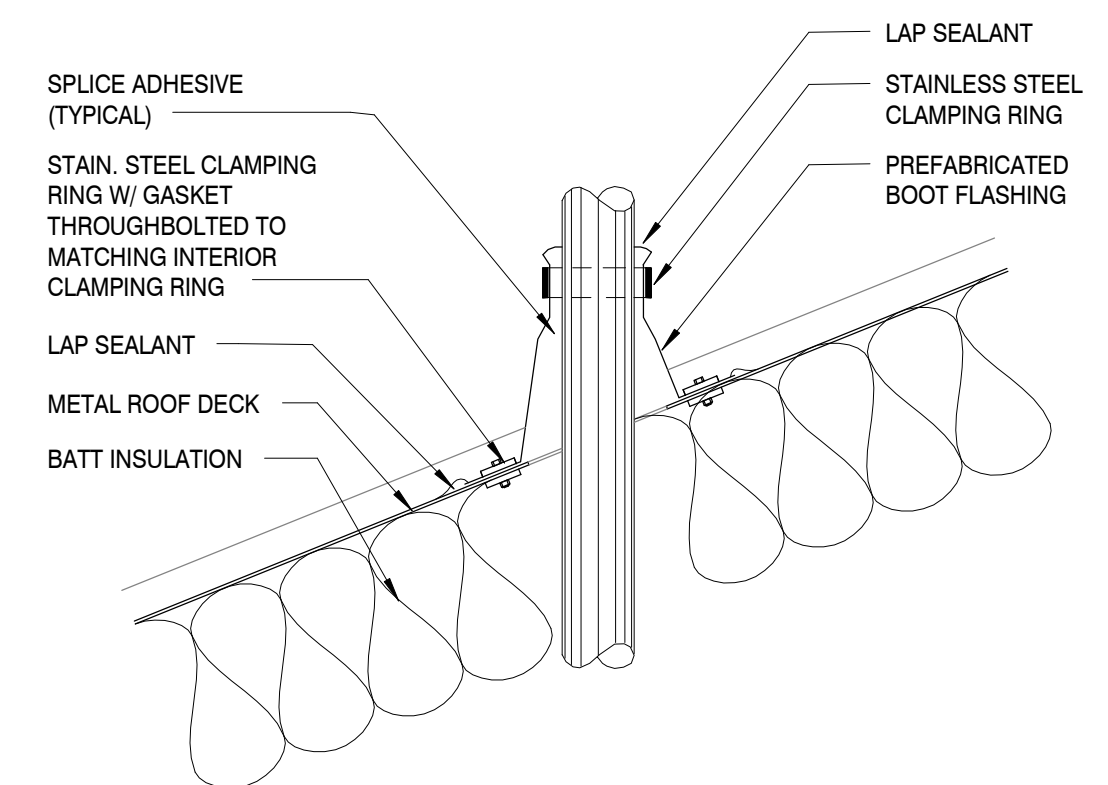
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5



EAVE DETAIL
SCALE: 1 1/2" = 1'-0"
4



PIPE PENETRATION DTL
SCALE: 1 1/2" = 1'-0"
3



PIPE PENETRATION DTL
SCALE: 1 1/2" = 1'-0"
2

ROOF GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY NUMBER, TYPE, AND LOCATIONS OF ALL UTILITIES AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO SATELLITE DISHES, HVAC UNITS, FANS, VENT PIPES, ETC. THAT WILL AFFECT HIS SCOPE OF WORK. CONTRACTOR SHALL INCLUDE IN HIS BID ALL NECESSARY WORK TO COORDINATE THE INSTALLATION OF NEW WORK WITH EXISTING UTILITIES AND EQUIPMENT.
2. THE CONTRACTOR SHALL AT ALL TIMES PROTECT ALL EXISTING INTERIOR SPACES EXPOSED DURING CONSTRUCTION AGAINST DAMAGE DUE TO WEATHER OR CONSTRUCTION.
3. REUSE EXISTING CURBS, THOSE CURBS THAT ARE TOO SHORT BECAUSE OF ADDITIONAL INSULATION SHALL RECEIVE NEW TALLER NAILERS AT TOP OF CURB.
4. COORDINATE STAGING AREAS AND CONSTRUCTION ACCESS WITH OWNER PRIOR TO START OF CONSTRUCTION.
5. REPAIR AND RESEED ANY EXISTING GRASS AREAS DISTURBED DURING CONSTRUCTION OR STAGING.
6. PROVIDE SPLASH BLOCKS ON 24" X 24" PROTECTION MATS AT ALL EXISTING ROOF DRAINS FROM HIGH ROOF. VERIFY QUANTITY NEEDED IN FIELD PRIOR TO BIDDING.
7. COORDINATE STAGING AREA AND CONSTRUCTION ACCESS WITH OWNER PRIOR TO START OF CONSTRUCTION.
8. PROVIDE GUTTER EXPANSION JOINTS AT 48' MAX. O.C. AND 24' MAX. FROM CORNERS.

ROOF PLAN KEYNOTES

1. CLEARANCE OF OUTDOOR UNIT
2. PRE-FINISHED ALUMINUM GUTTER & DOWNSPOUT
3. STANDING SEAM ROOF
4. PREMANUFACTURED CANOPY
5. ROOF VENT PIPE SEE DETAIL 2/A301

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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: **220042-02**

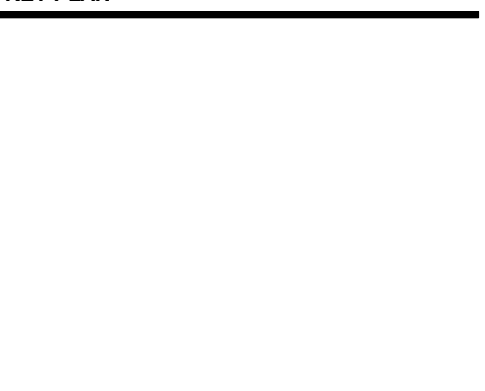
ACTIVE DESIGN PHASE

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- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN

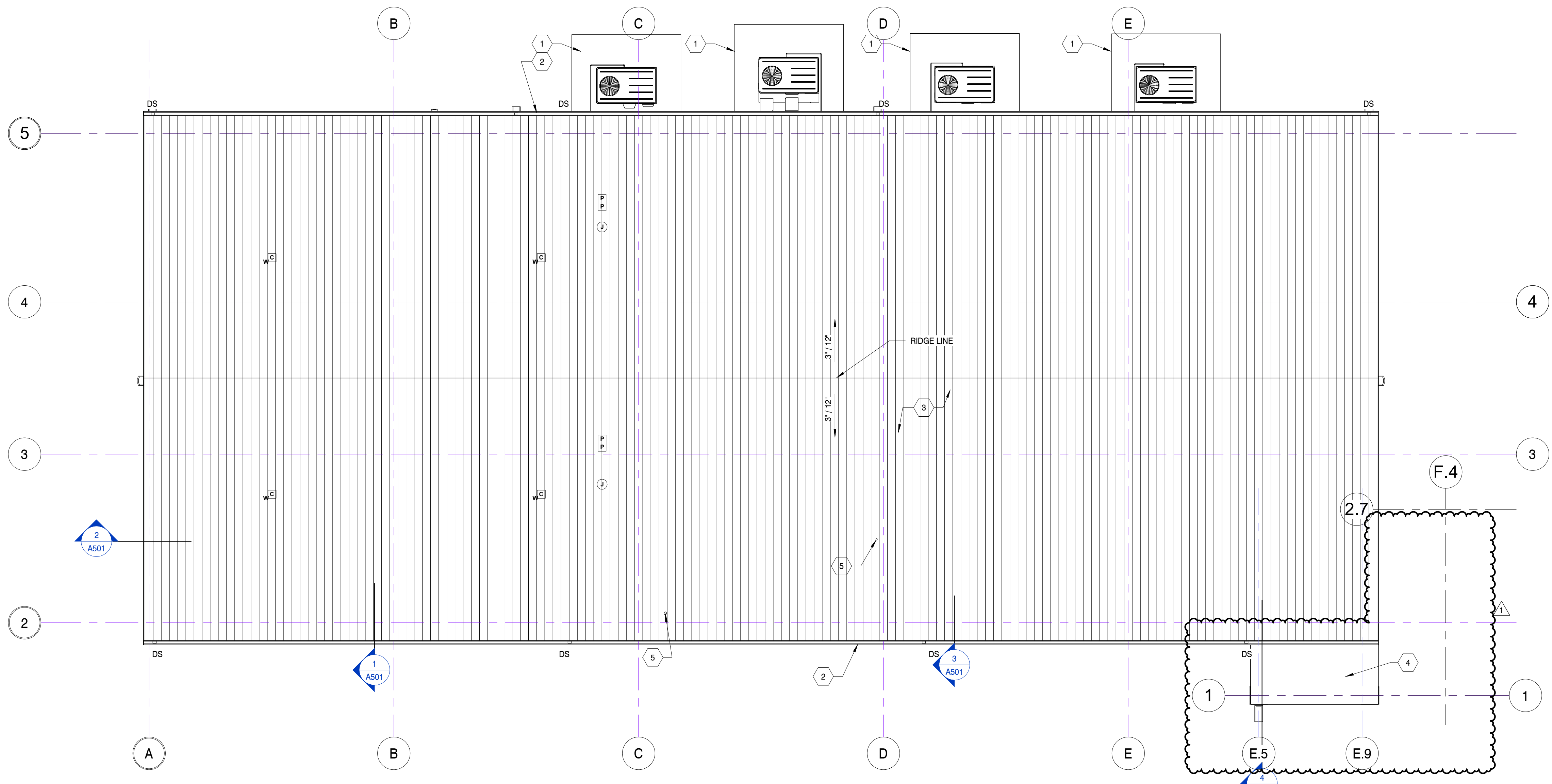


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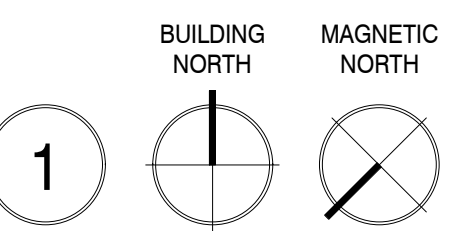
SHEET ISSUED: 10/06/2023
DESIGNED BY: CMG
DRAWN BY: MDC
REVIEWED BY: CMG
SHEET TITLE:

ROOF PLAN AND DETAILS

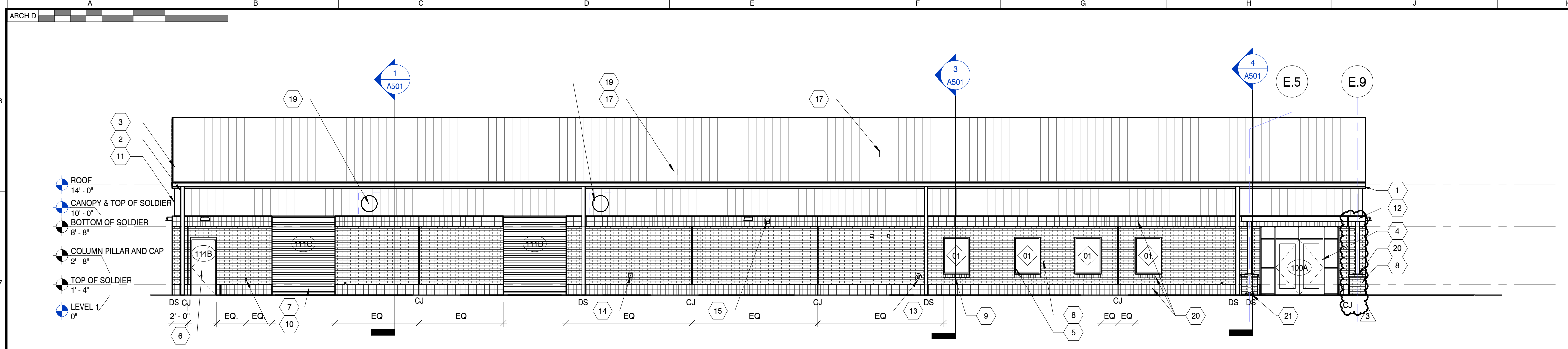
SHEET NO.: **A301**



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

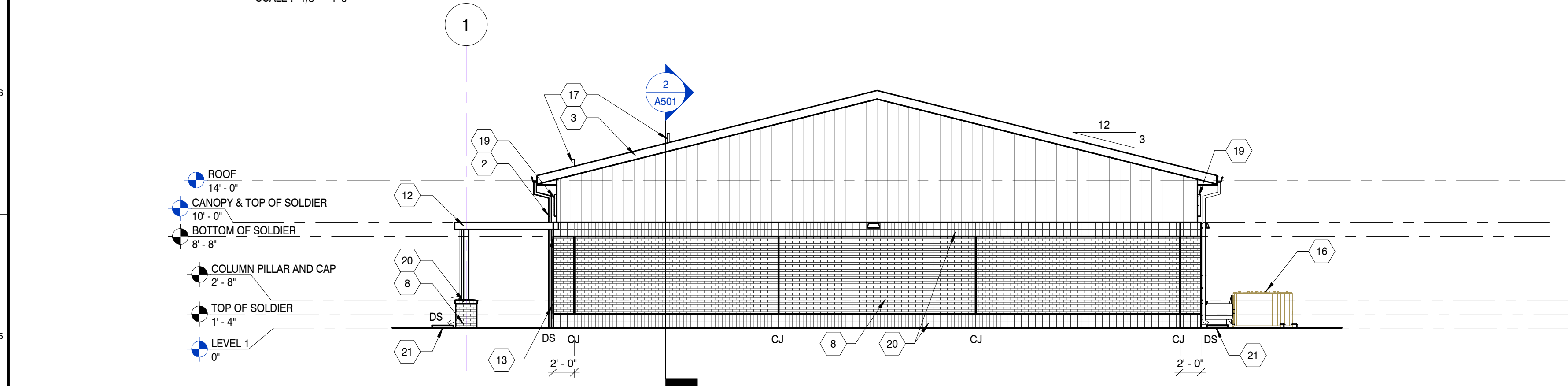


TFM # 00017-D
PROJECT # 2023-10-31-01



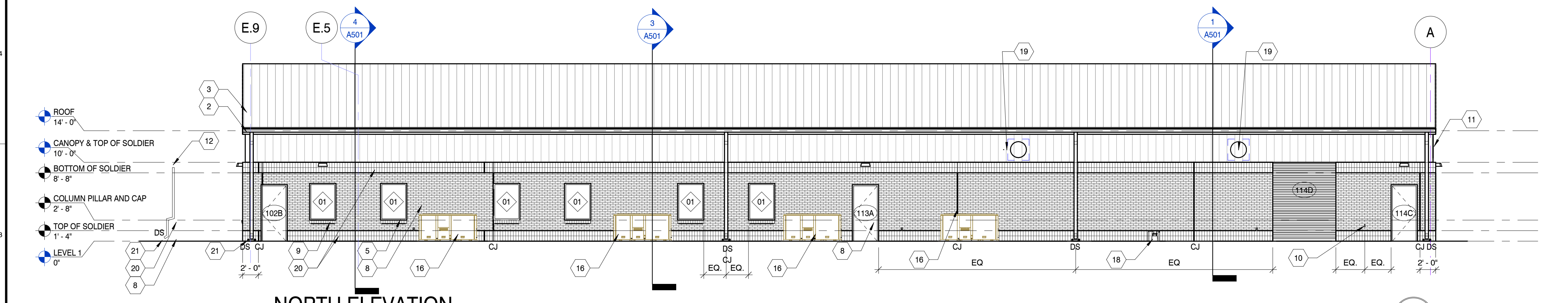
SOUTH ELEVATION

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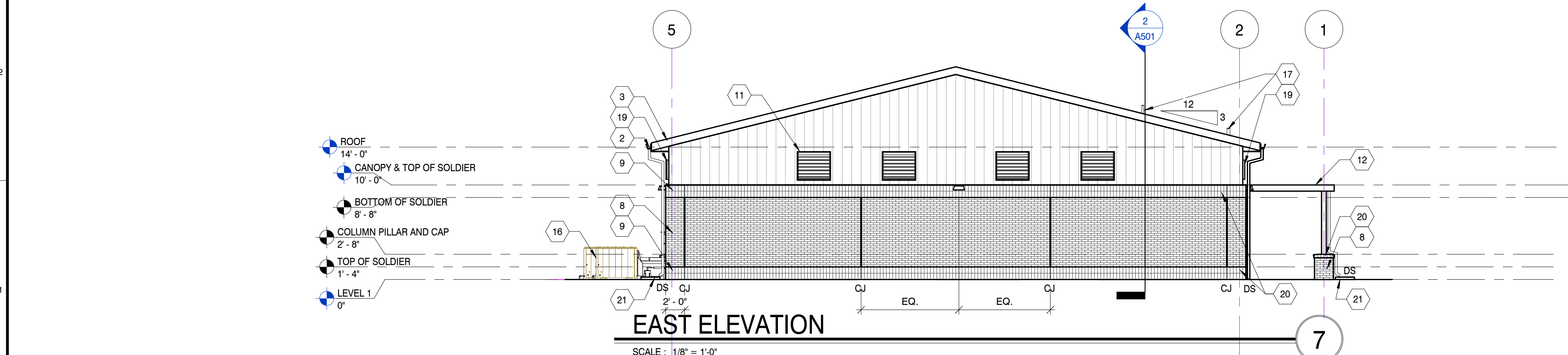
WEST ELEVATION

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



NORTH ELEVATION

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



EAST ELEVATION

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

EXTERIOR ELEVATION KEYNOTES

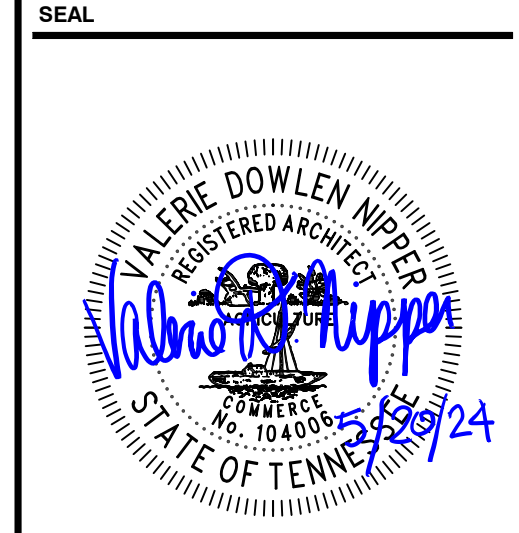
1. PRE-FINISHED METAL WRAPPED FASCIA (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
2. PRE-FINISHED ALUMINUM GUTTER & DOWNSPOUT (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
3. STANDING SEAM ROOF (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
4. INSULATED ALUMINUM STOREFRONT (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
5. INSULATED ALUMINUM WINDOW (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
6. INSULATED HOLLOW METAL DOOR & FRAME
7. INSULATED ALUMINUM COLONG DOOR (COLOR TO BE SELECTED FROM STANDARD MANUF. CHART)
8. BRICK VENEER AND MORTAR COLOR 1 (BROWN) MATCH CLINTON HIGH SCHOOL ATHLETIC CENTER
9. BRICK VENEER AND MORTAR ROWLOCK COLOR 2 MATCH CLINTON HIGH SCHOOL ATHLETIC CENTER
10. HOSE BIB 2 1/2" A.F.F. - SEE PLUMBING DRAWINGS
11. METAL BUILDING LOUVERS
12. PRE-MANUFACTURED CANOPY
13. FIRE DEPARTMENT INLET CONNECTION - SEE FIRE PROTECTION DRAWINGS
14. DRYER VENT THRU - SEE MECHANICAL DRAWINGS
15. EXHAUST FAN - SEE MECHANICAL DRAWINGS
16. PACKAGED UNIT - SEE MECHANICAL DRAWINGS
17. ROOF VENT PIPE SEE DETAIL 2/A501
18. GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI
19. WALL EXHAUST FAN - SEE MECHANICAL DRAWINGS
20. BRICK VENEER AND MORTAR COLOR 2 (GRAY) MATCH CLINTON HIGH SCHOOL ATHLETIC CENTER
21. SPLASHBLOCK

ALL EXPOSED PIPING ON EXTERIOR OF BUILDING TO BE PAINTED TO COLOR MATCH ADJACENT MATERIAL
 CJ - CONTROL JOINT (IN BRICK VENEER)
 DS - PRE-FINISHED METAL GUTTER & DOWNSPOUT W/ DOWNSPOUT BOOT



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
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- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
3	05.20.2024	REVISION #3

KEY PLAN



SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
 SHEET TITLE:

EXTERIOR ELEVATIONS
 SHEET NO.:

A401

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TFM # 00017-D
 PROJECT # 2023-10-31-01

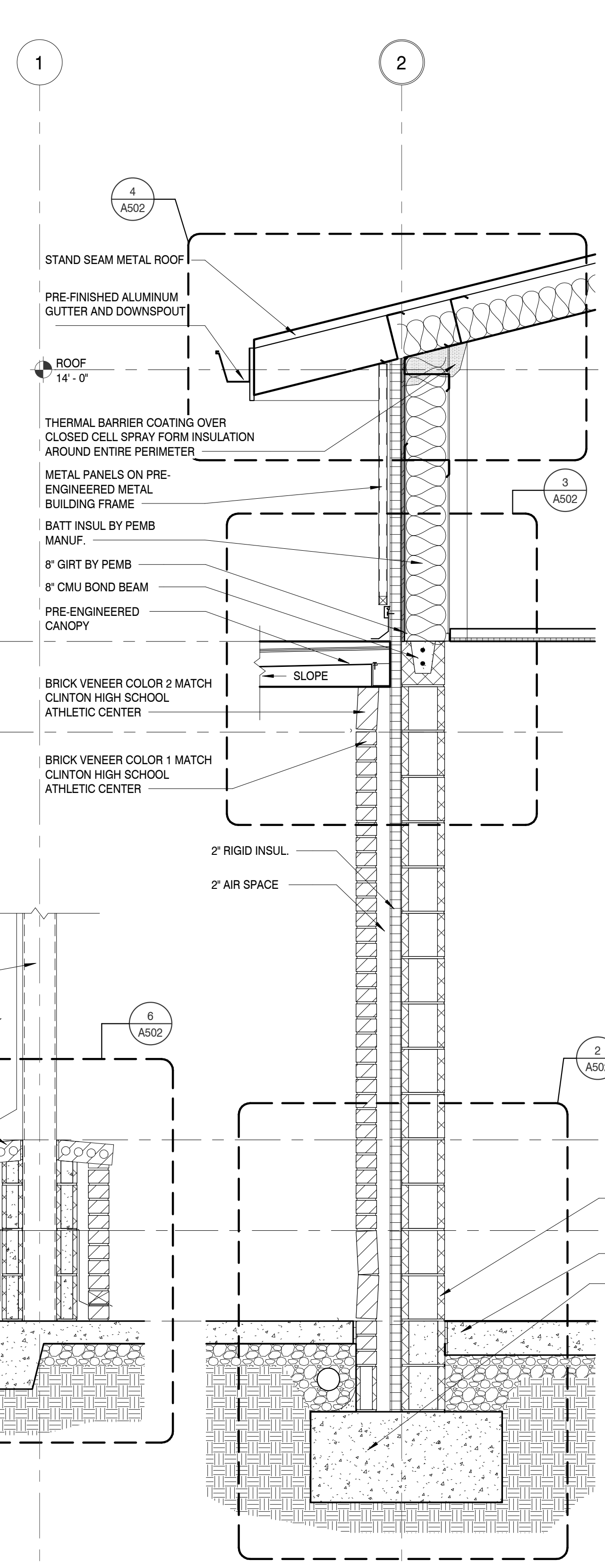
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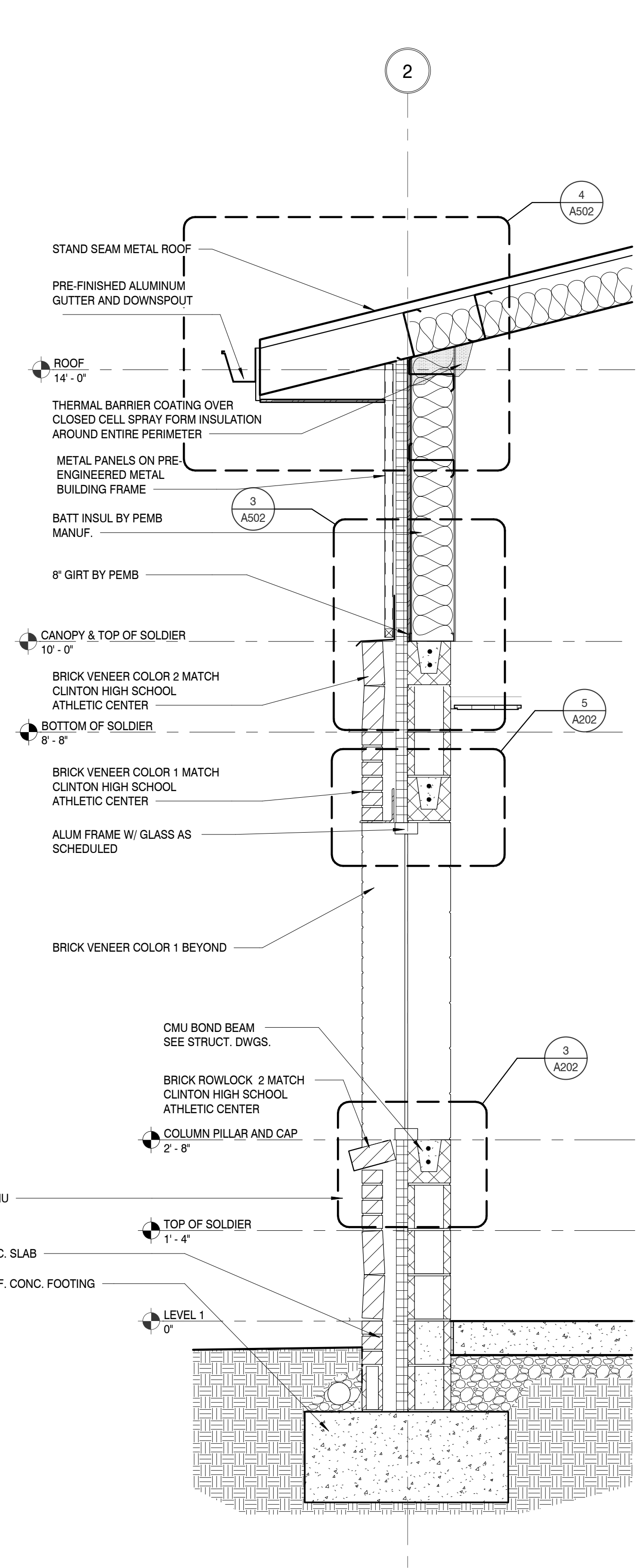
TENNESSEE STATE FIRE MARSHAL'S OFFICE
 200 N. WEISGARBER ROAD
 KNOXVILLE, TN 37919
 PHONE: (865) 584-0999
 FAX: (865) 584-6213
 WEB: mbicompanies.com

CANOPY NOTE:
 PRE-ENGINEERED CANOPY BY RUSCO CANOPIES OR APPROVED EQUAL. RUSCO TO PROVIDE FULL SET OF SHOP DRAWINGS FOR REVIEW.

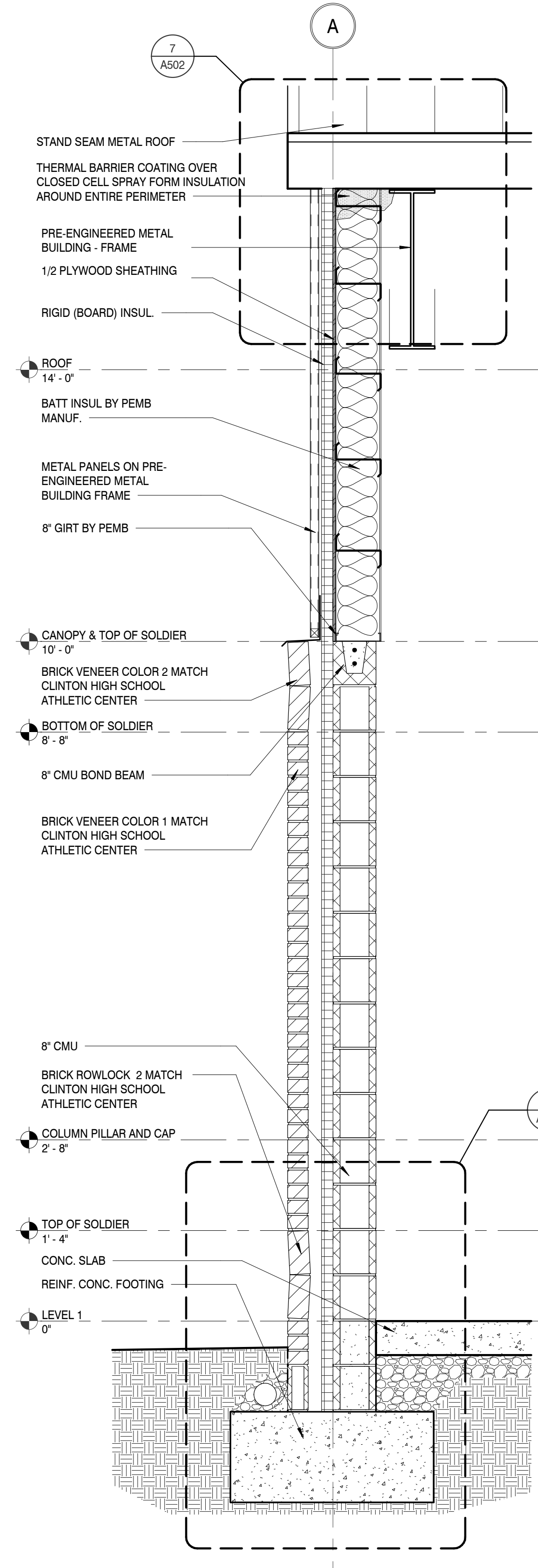
CONTACT:
 RUSCO CUSTOM CANOPIES
 6808 BARGER POND WAY
 KNOXVILLE, TN 37912
 (865) 938-4717



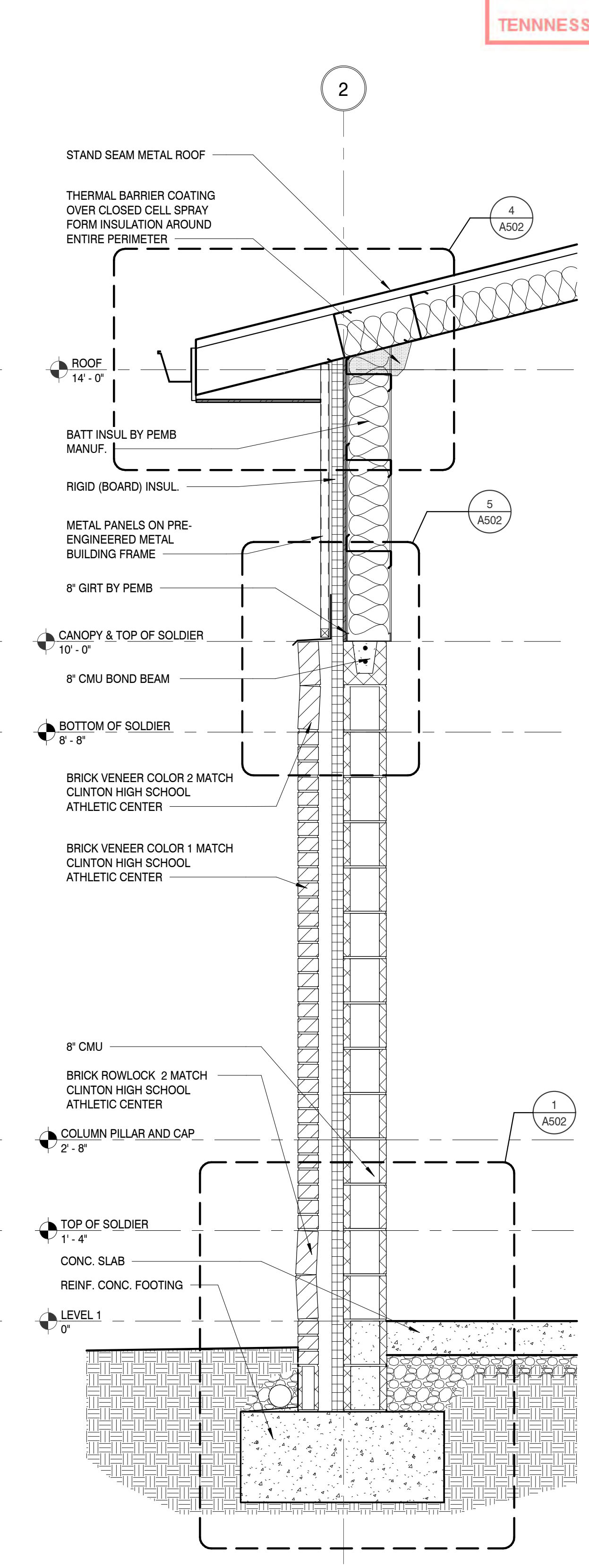
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WALL SECTION 3
 SCALE: 3/4" = 1'-0"



WALL SECTION 2
 SCALE: 3/4" = 1'-0"



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

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PROJECT NO.: **220042-02**

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NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
 SHEET TITLE:

WALL SECTIONS

SHEET NO.:

A501

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TFM # 00017-D

PROJECT # 2023-10-31-01

FIELD SET

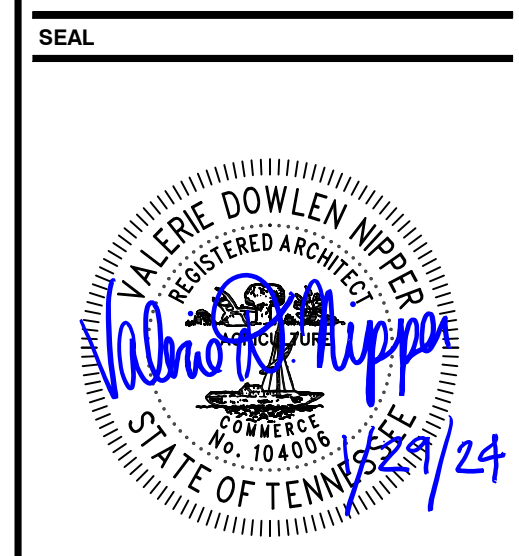
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- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/29/2024	ADDENDUM #01

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
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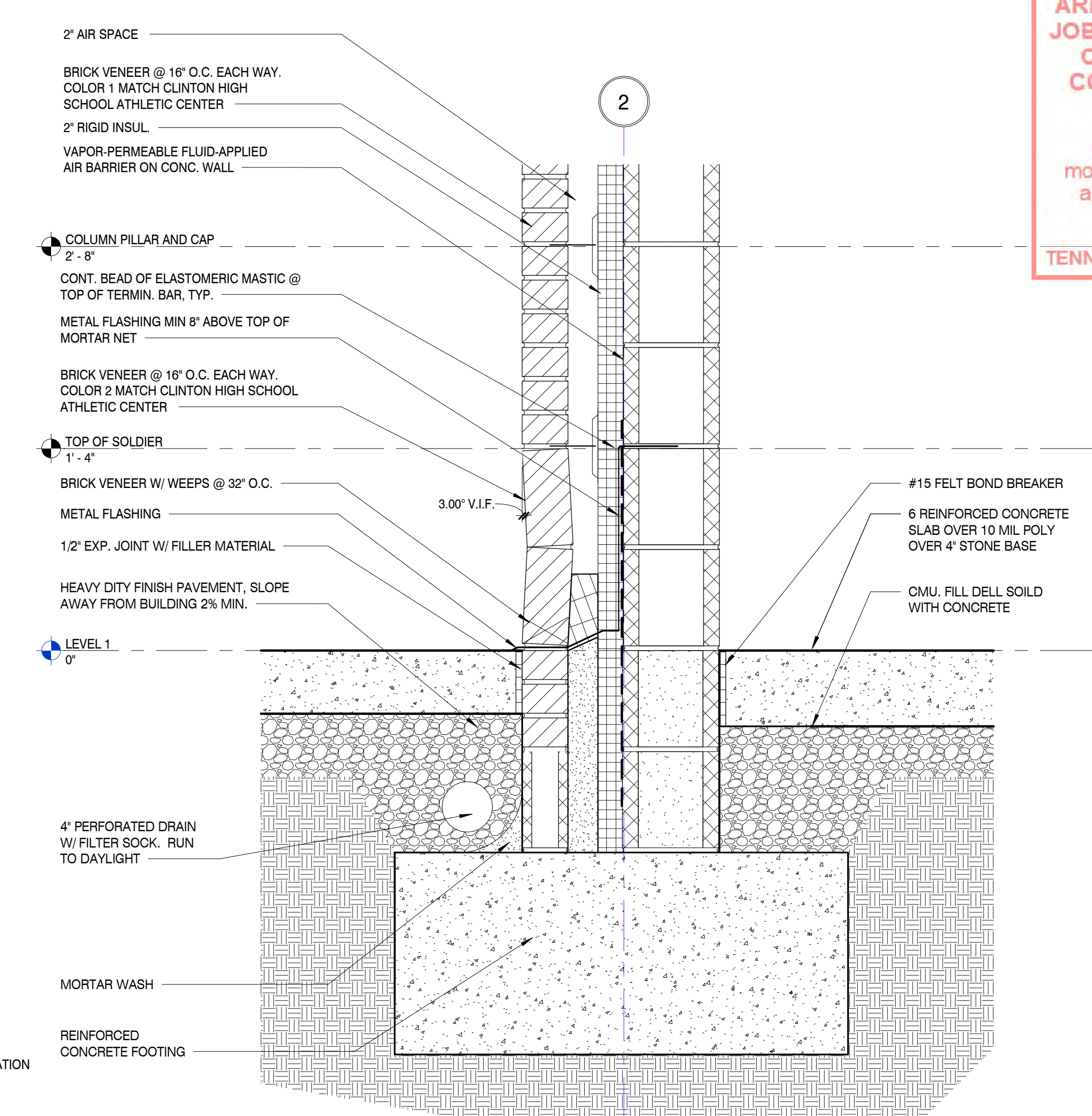
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SHEET NO.: A502

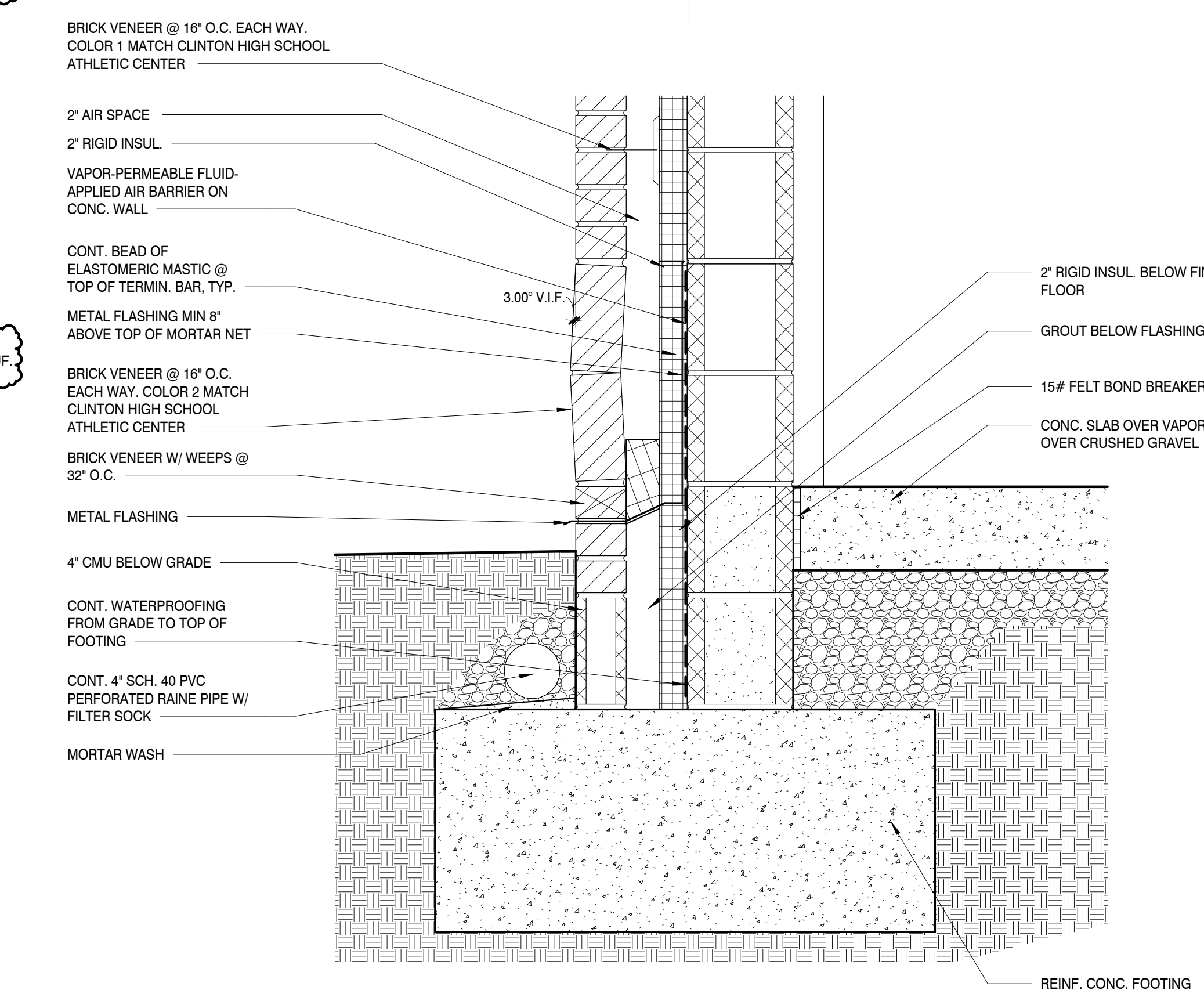
PROJECT # 2023-10-31-01

FIELD SET

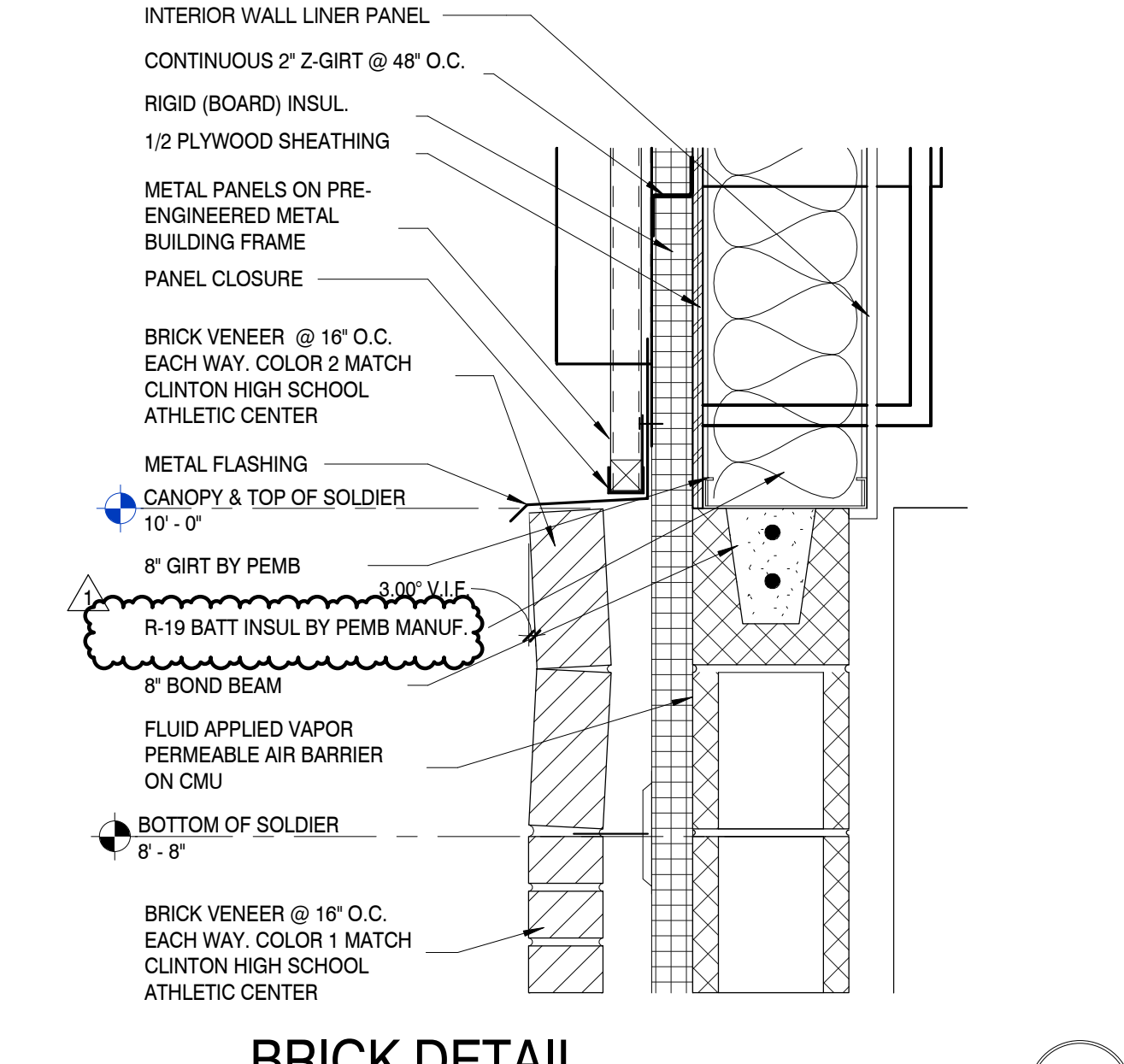
TFM # 00017-D



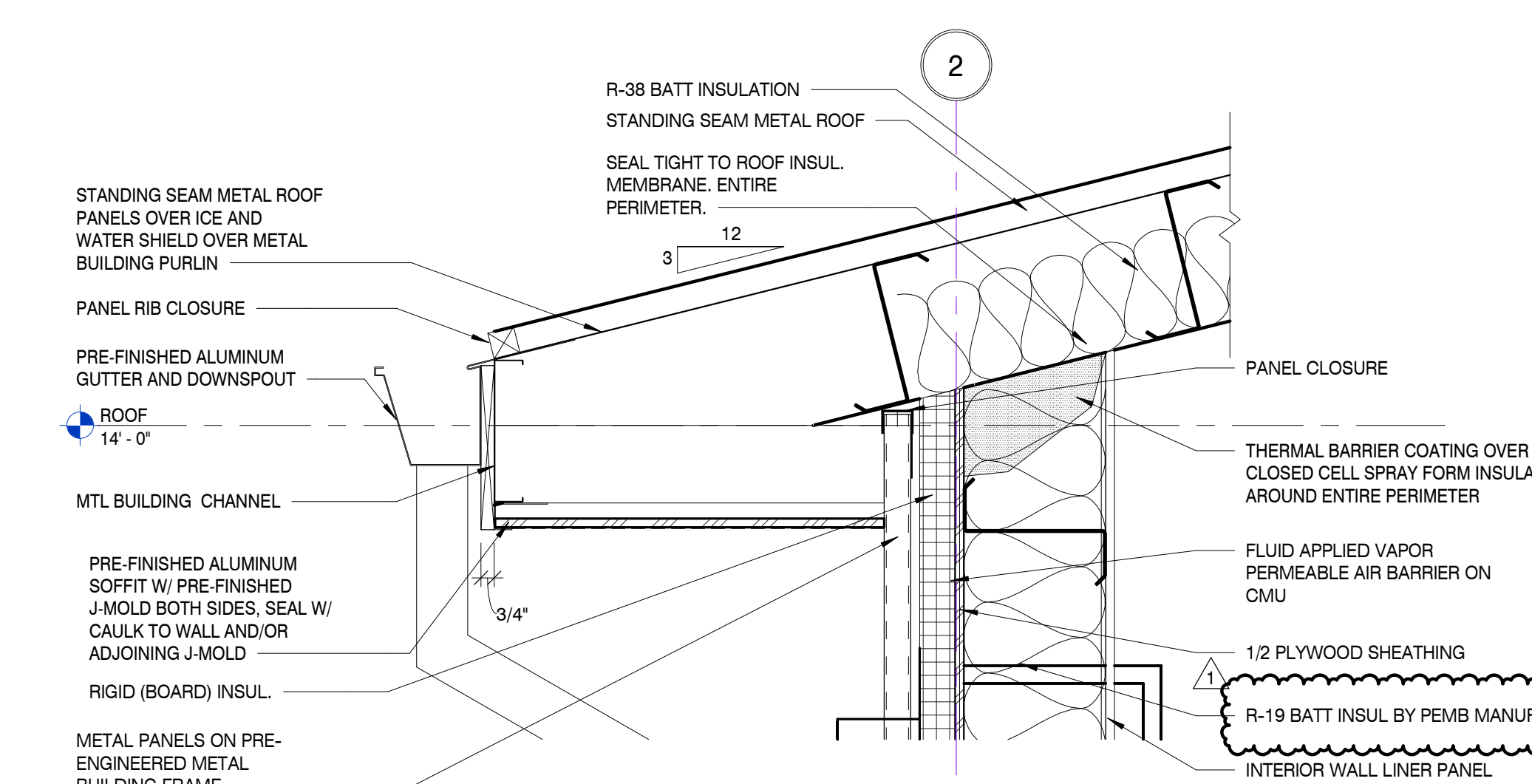
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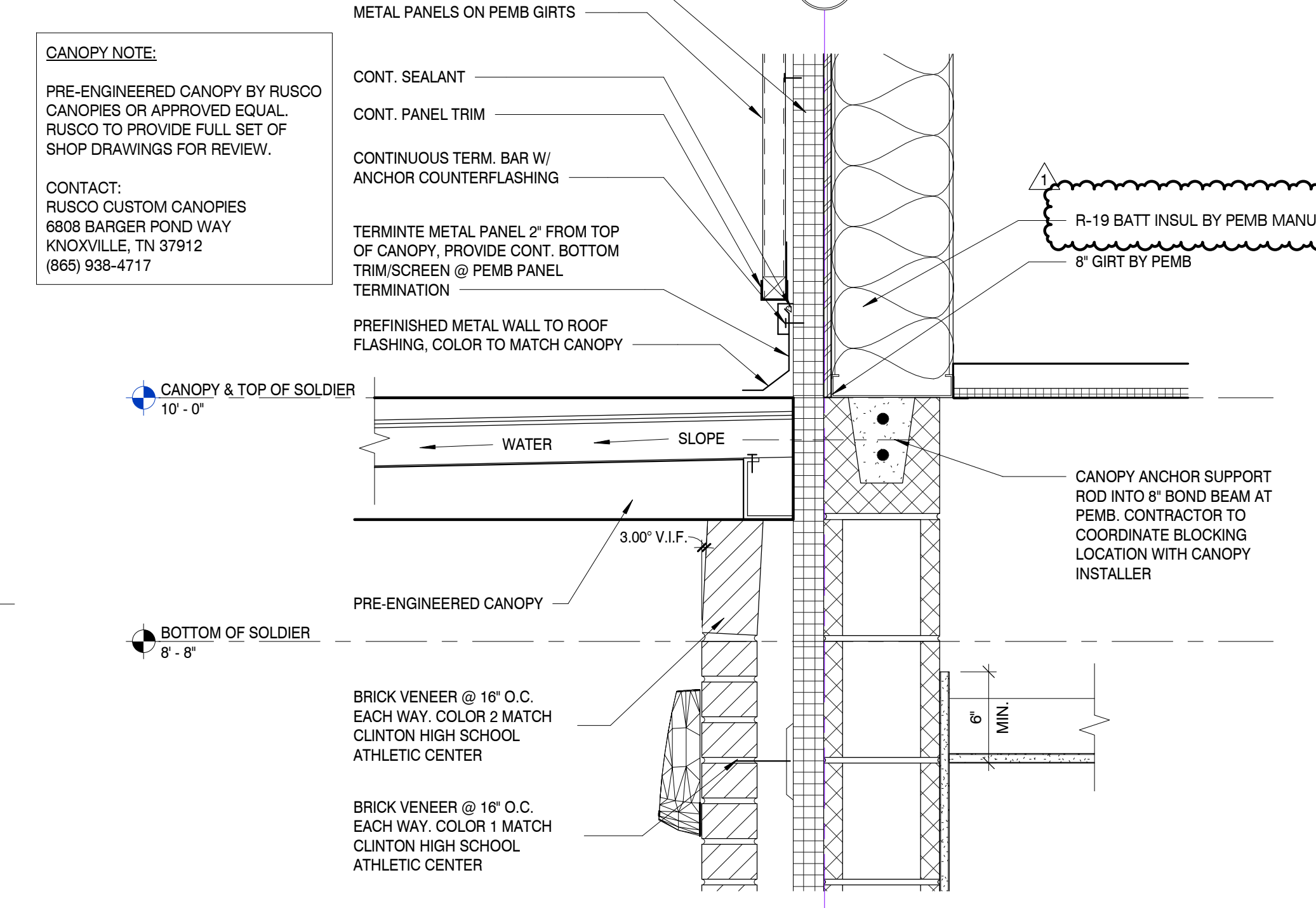
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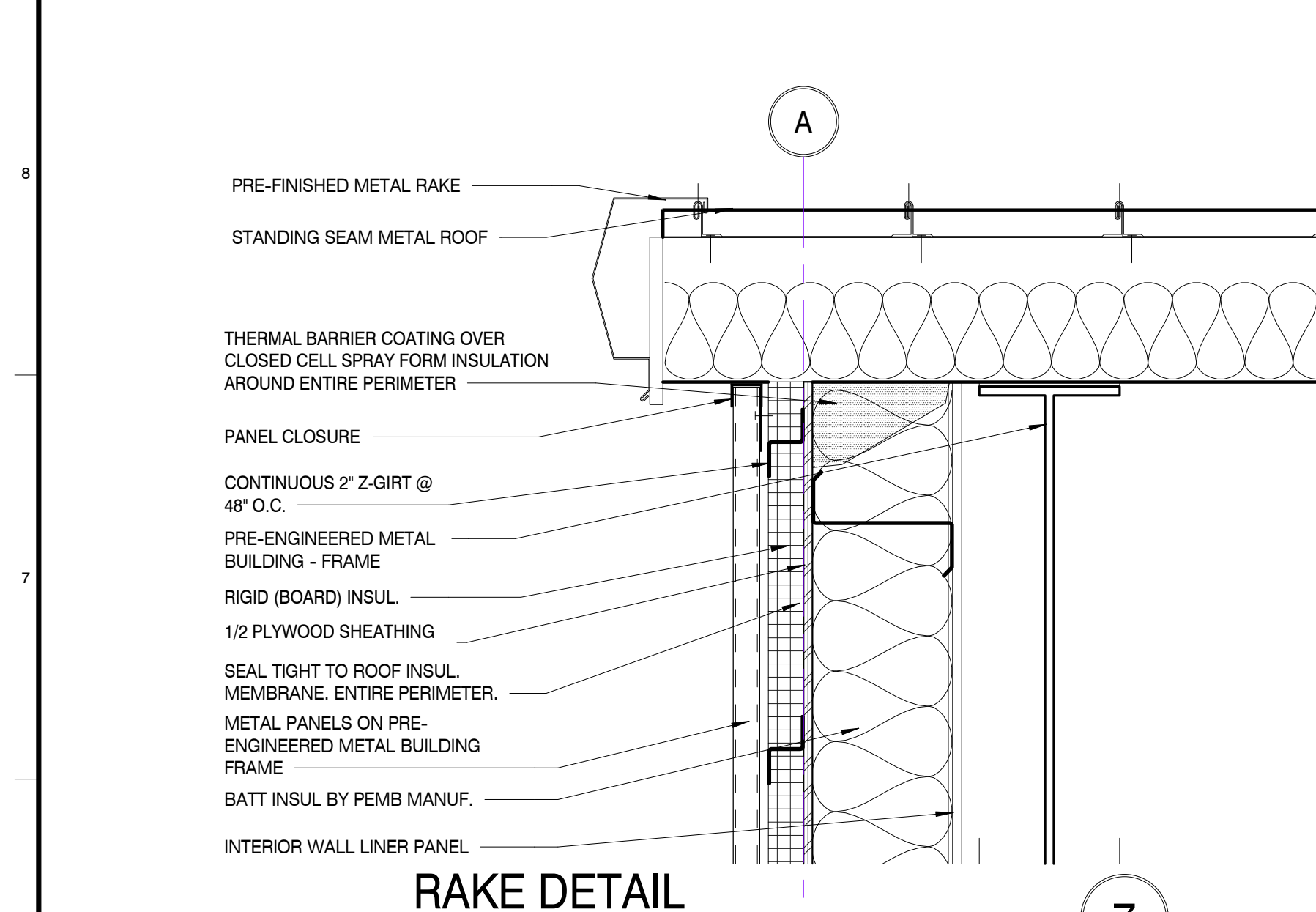
BRICK DETAIL
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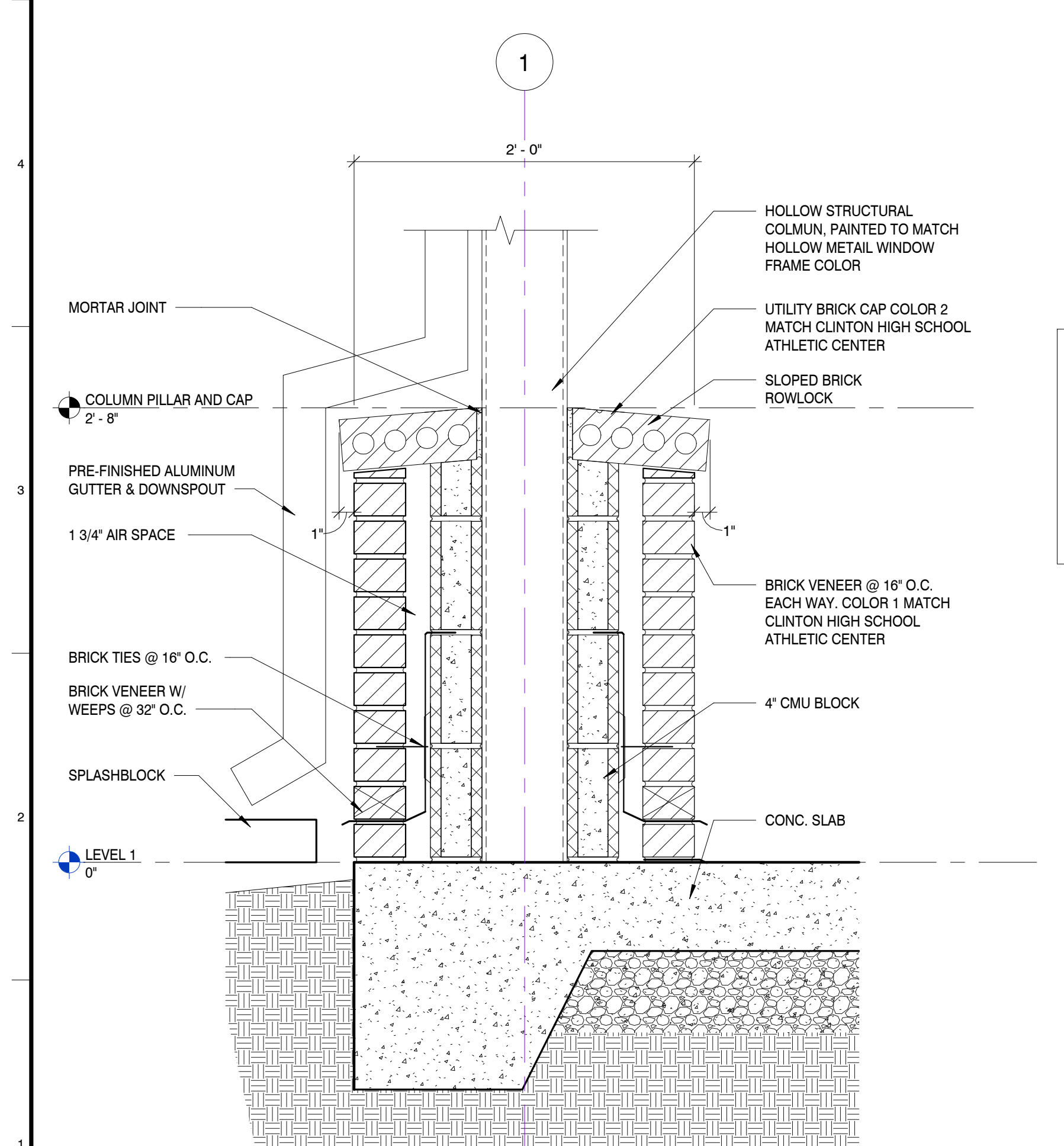
EAVE DETAIL
 SCALE: 1 1/2" = 1'-0"



WALL CONNECTION DETAIL TO CANOPY
 SCALE: 1 1/2" = 1'-0"

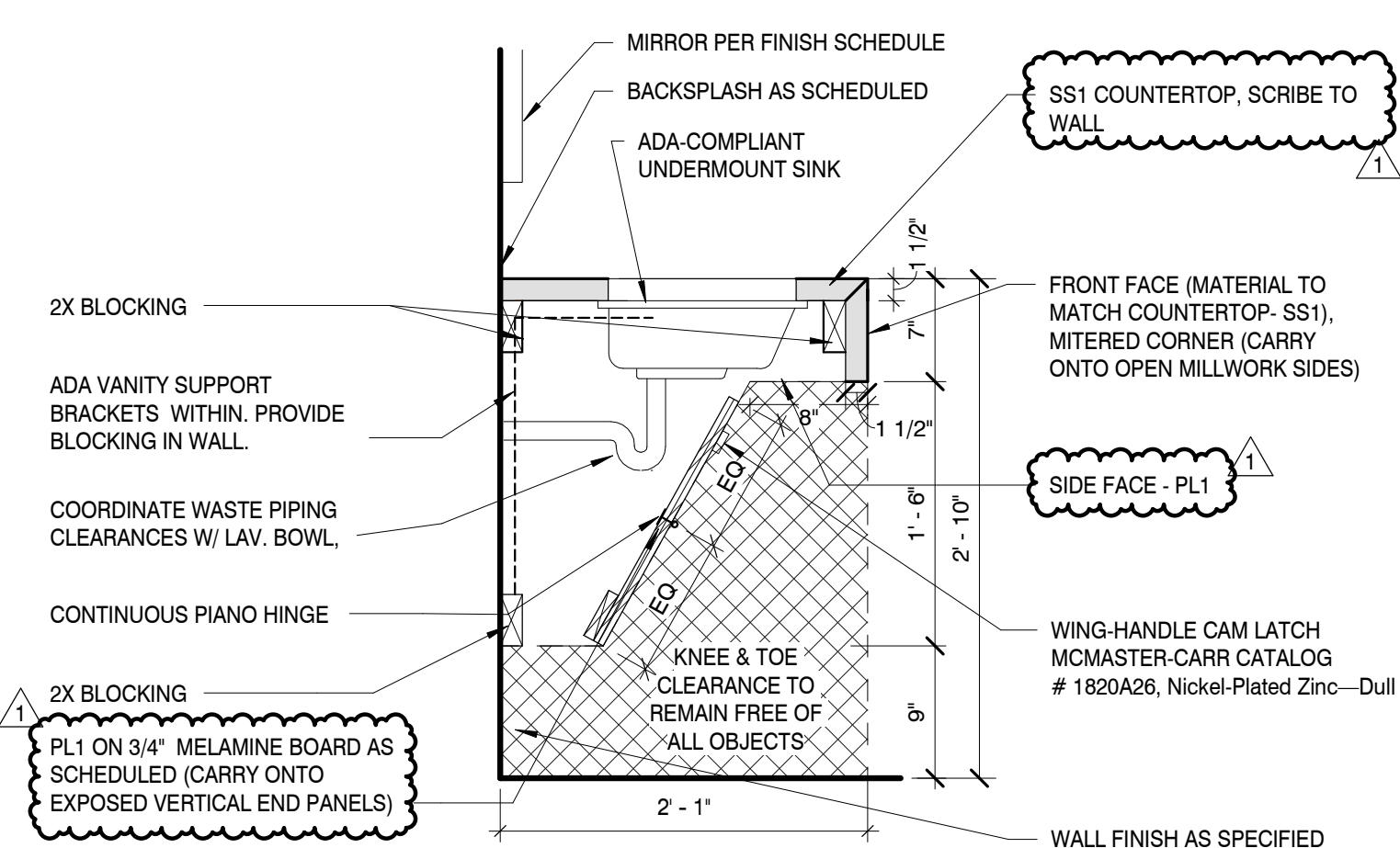


RAKE DETAIL
 SCALE: 1 1/2" = 1'-0"

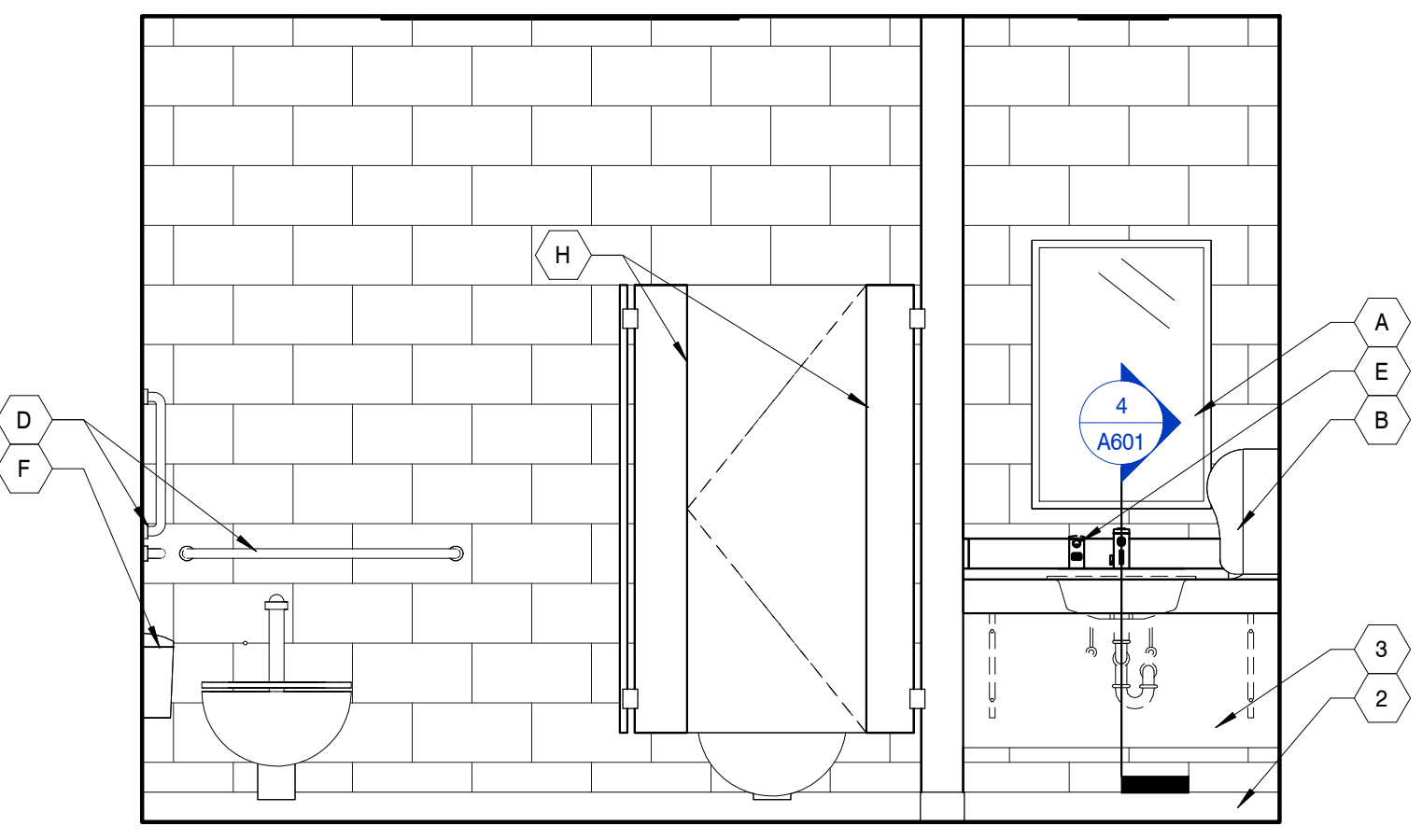


SECTION THRU COLUMN PILLAR AND CAP
 SCALE: 1 1/2" = 1'-0"

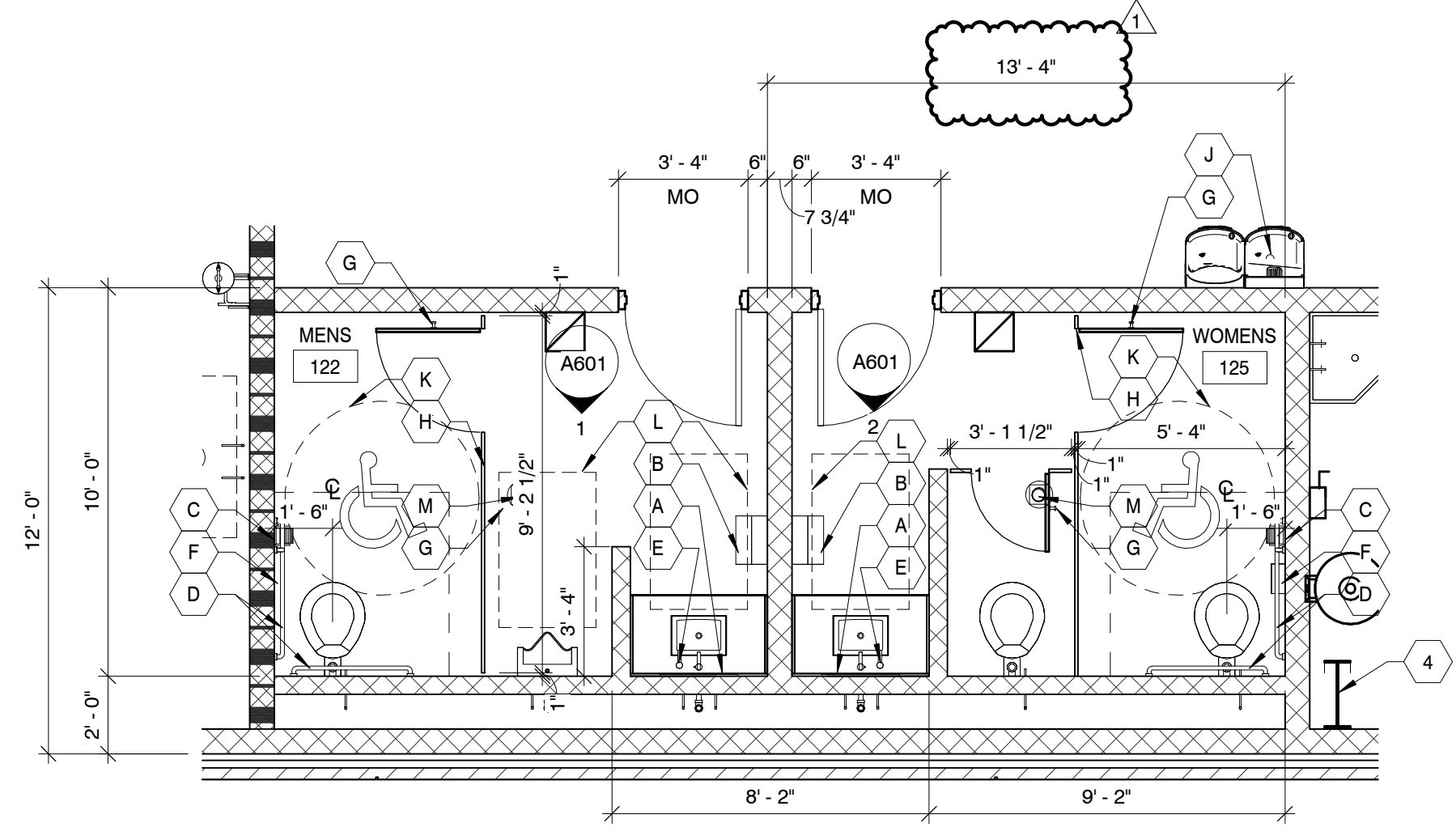
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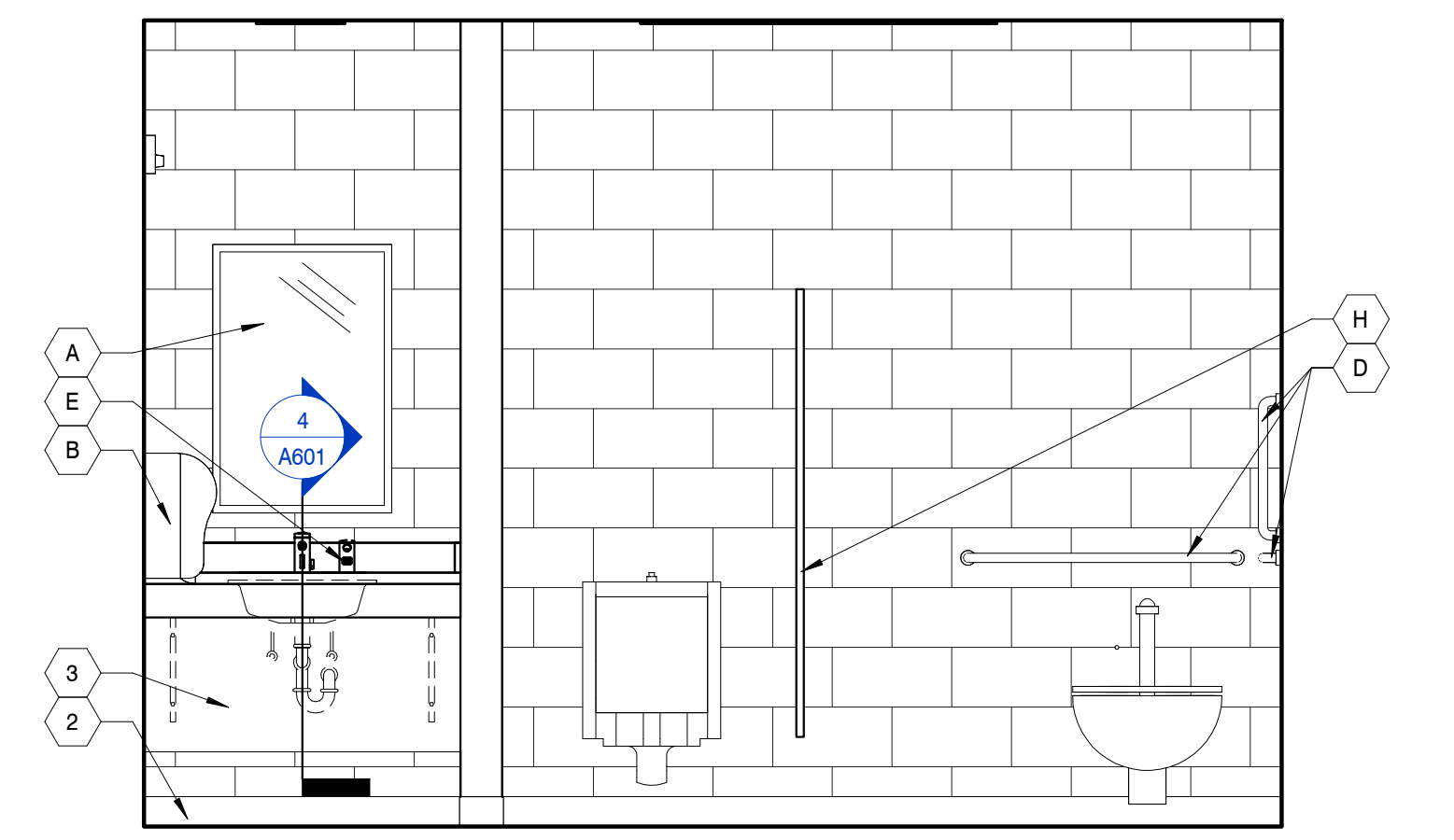
MILLWORK - LAVATORY VANITY - ANGLED APRON 4
SCALE: 1" = 1'-0"



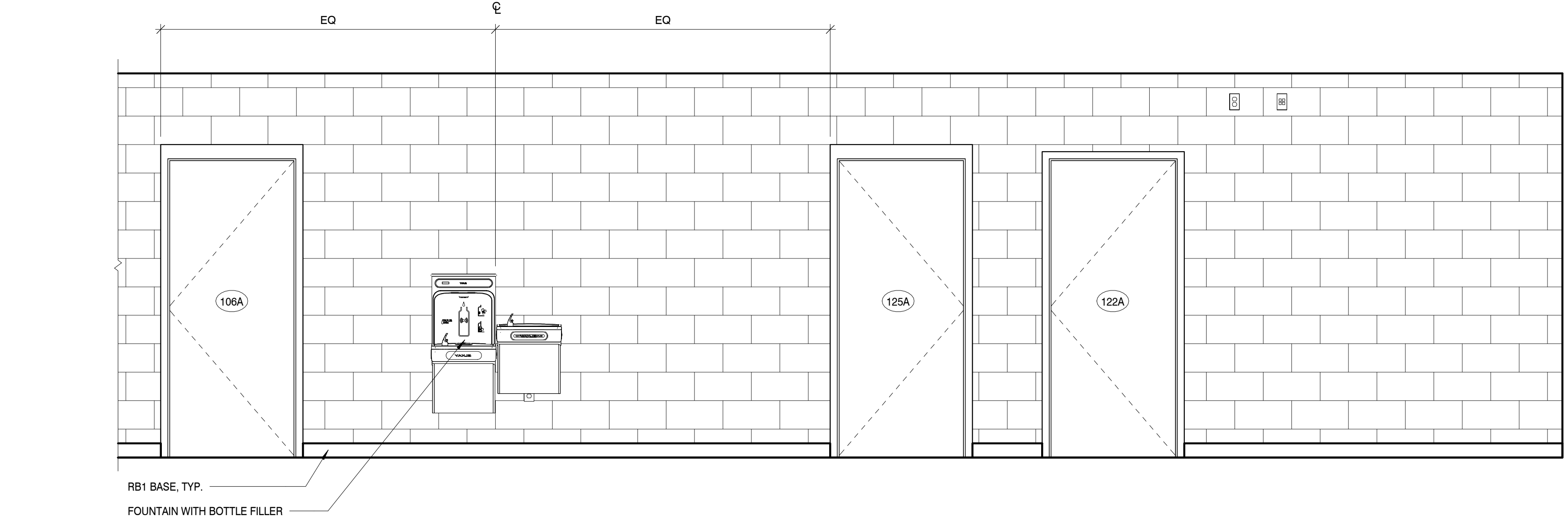
RESTROOM ELEVATION WOMENS 2
SCALE: 1/2" = 1'-0"



ENLARGED RESTROOM PLAN 3
SCALE: 1/4" = 1'-0"



RESTROOM ELEVATION - MENS 1
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION - RESTROOM GRAPHICS 5
SCALE: 1/2" = 1'-0"

GENERAL PLUMBING NOTES

- ALL PLUMBING MATERIAL AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- SEE PLUMBING DRAWINGS FOR LOCATIONS AND SIZES OF ACCESS PANELS.
- ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH THE CURRENT A.D.A. STATE REGULATIONS FOR MOUNTING HEIGHTS AND CLEARANCES.
- ALL HOT WATER AND DRAIN PIPES SHALL BE INSULATED PER A.D.A. REQUIREMENTS. MINIMUM HOT WATER SUPPLY INSULATION SHALL BE PRE-MOLDED FIBERGLASS PIPE INSULATION WITH WHITE ALL SERVICE JACKET. INSULATION THICKNESS SHALL BE MIN. 1". SEE PLUMBING DRAWINGS.
- ALL GRAB BARS IN NEW CONSTRUCTION SHALL BE INSTALLED WITH CONCEALED ANCHOR PLATES.
- THE FLUSH ACTIVATOR SHALL BE LOCATED ON THE WIDE CLEARANCE SIDE OF HANDICAPPED UNITS AND SHALL BE LEVER TYPE. THE FORCE TO ACTIVATE SHALL NOT EXCEED 5 POUNDS. ACTIVATION SHALL BE WITHIN 40" OF FIN. FLOOR.
- LAVATORY FAUCET CONTROLS SHALL BE LEVER TYPE AND THE FORCE TO ACTIVATE SHALL NOT EXCEED 5 POUNDS.
- PROVIDE BLOCKING IN WALLS AS REQ'D FOR ALL FIXTURES AND EQUIPMENT.
- ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF FURRING UNLESS OTHERWISE NOTED. 'CLEAR' DENOTES FINISH TO FINISH.
- TOILET ROOM WALLS TO HAVE SOUND BATT INSULATION FROM FLOOR TO DECK ABOVE.
- GYP. BD. IN ALL WET AREAS TO BE WATER RESISTANT GYP. BD.
- CONCRETE BACKER BOARD SHALL BE PROVIDED BEHIND TILE AT WALLS.
- ADJUST SUPPLY LINE WALL PENETRATION HEIGHTS AS NEEDED TO AVOID CONFLICTS BETWEEN FLUSH VALVES AND GRAB BAR MOUNTING HEIGHTS. GRAB BAR MOUNTING HEIGHTS ARE TO TAKE PRIORITY.
- CONTRACTOR TO CORRIDATE WITH SPECIFIED FIXTURES AND FINISHES TO ENSURE RIM OF LAVATORIES TO BE 34" A.F.F. MAX.

RESTROOM ACCESSORIES X

- 24" x 36" FRAMELESS MIRROR W/ 1/4" FLOAT PLATE SET IN SILICONE. (40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE), CENTER ABOVE SINK, TYP.
- PAPER TOWEL
- TOILET TISSUE DISPENSER (WALL MOUNTED), DISPENSER SHALL BE LOCATED 11" MIN. 12" OF THE FRONT EDGE OF THE TOILET SEAT. (1 PER STALL)
- 42" & 36" HORIZ. AND 18" VERT. STAINLESS STEEL GRAB BAR. (SURFACE MOUNTED), 1 1/4" - 1 1/2" O' MOUNTED 1 1/2" FROM WALL.
- SOAP DISPENSER
- FEMININE NAPKIN RECEPTACLE
- COAT / ROBE HOOK
- BATHROOM PARTITION
- 38" MOP RACK
- J-H/O WATER FOUNTAIN WITH BOTTLE FILLER
- 60"x56" CLEAR FLOOR AREA AT WATER CLOSET
- 30"x48" ACCESSIBLE FLOOR AREA
- FLOOR DRAIN - SEE PLUMBING DRAWINGS

FLOOR PLAN KEYNOTES #

- ALIGN FINISHES
- CONCRETE FLOOR WITH INTEGRAL 4" WALL BASE
- REMOVABLE LAVATORY VANITY - ANGLED APRON
- PRE-ENGINEERED METAL BUILDING COLUMN
- MILLWORK - REFER TO INTERIOR ELEVATIONS
- MOP SINK - SEE PLUMBING. PROVIDE 48" HIGH FRP
- PANEL WAINSCOT AT SIDE AND REAR WALL
- WALL-MOUNTED MOP AND BROOM RACK
- FURNITURE - (N.I.C.)
- WASHER - (O.F.C.I.)
- DRYER - (O.F.C.I.)
- DOG WASH STATION - (O.F.C.I.)
- WELDING STATION - (O.F.C.I.)
- EYE WASH STATION
- HOSE BIB 24" A.F.F.
- FLOOR DRAIN
- PACKAGED UNIT CLEARANCE
- DRYER VENT THRU
- PACKAGED UNIT
- GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI
- FIRE DEPARTMENT INLET CONNECTION
- HOT WATER HEATER
- CEILING RETRACTABLE COIL EXTENSION CORD REEL
- SPLASHBLOCK
- CAMERA SYSTEM THAT MONITORS EACH ENTRANCE HALLWAY. MOUNTING HEIGHT TO BE VERIFIED WITH OWNER.
- FRITTER - (O.F.C.I.)
- FIRE ALARM CONTROL PANEL
- PANELBOARD
- PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS. GROMMET LOCATIONS TO BE VERIFIED BY OWNER.

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
 PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
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- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01-29-2024	ADDENDUM #01

KEY PLAN



SHEET INFORMATION

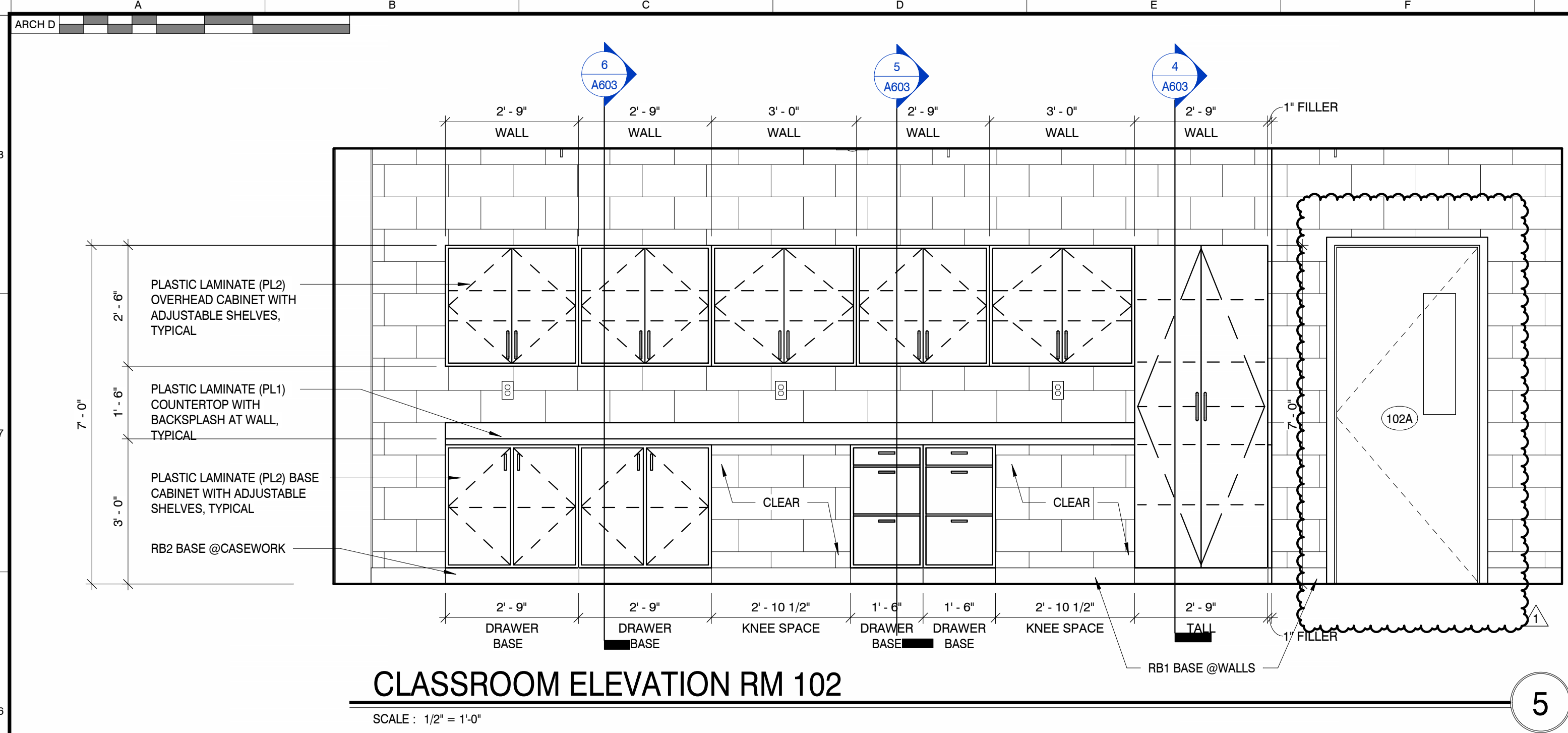
SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: MDC
 REVIEWED BY: CMG
 SHEET TITLE:

ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS
 SHEET NO.:

TFM # 00017-D
 PROJECT # 2023-10-31-01

A601

PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D



CLASSROOM ELEVATION RM 102
SCALE : 1/2" = 1'-0"

5

FLOOR PLAN KEYNOTES

1. ALIGN FINISHES
2. CONCRETE FLOOR WITH INTEGRAL 4" WALL BASE
3. REMOVABLE LAVATORY VANITY - ANGLED APRON
4. PRE-ENGINEERED METAL BUILDING COLUMN
5. MILLWORK - REFER TO INTERIOR ELEVATIONS
6. MOP SINK - SEE PLUMBING. PROVIDE 48" HIGH FRP
7. PANEL WAINSCOT AT SIDE AND REAR WALL
8. WALL MOUNTED MOP AND BROOM RACK
9. FURNITURE - (N.I.C.)
10. WASHER - (O.F.C.I.)
11. DRYER - (O.F.C.I.)
12. DOG WASH STATION - (O.F.C.I.)
13. WELDING STATION - (O.F.C.I.)
14. HOSE BIB 24" A.F.F.
15. FLOOR DRAIN
16. PACKAGED UNIT CLEARANCE
17. DRYER VENT THRU
18. PACKAGED UNIT
19. GAS METER, SIZED FOR 360 MBH OVER 125' SET REGULATOR FOR 0.5 PSI
20. FIRE DEPARTMENT INLET CONNECTION
21. HOT WATER HEATER
22. CEILING RETRACTABLE COIL EXTENSION CORD REEL
23. SLASH BLOCK
24. CAMERA SYSTEM THAT MONITORS EACH ENTRANCE HALLWAY. MOUNTING HEIGHT TO BE VERIFIED WITH OWNER.
25. PRINTER - (O.F.C.I.)
26. FIRE ALARM CONTROL PANEL
27. PANELBOARD
28. PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS. GROMMET LOCATIONS TO BE VERIFIED BY OWNER.

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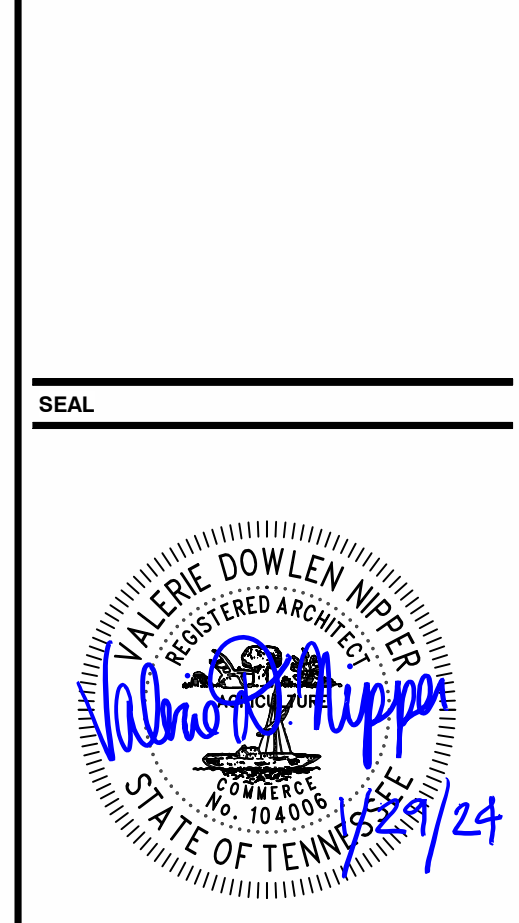
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: **220042-02**

ACTIVE DESIGN PHASE

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- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01/29/2024	ADDENDUM #01

KEY PLAN

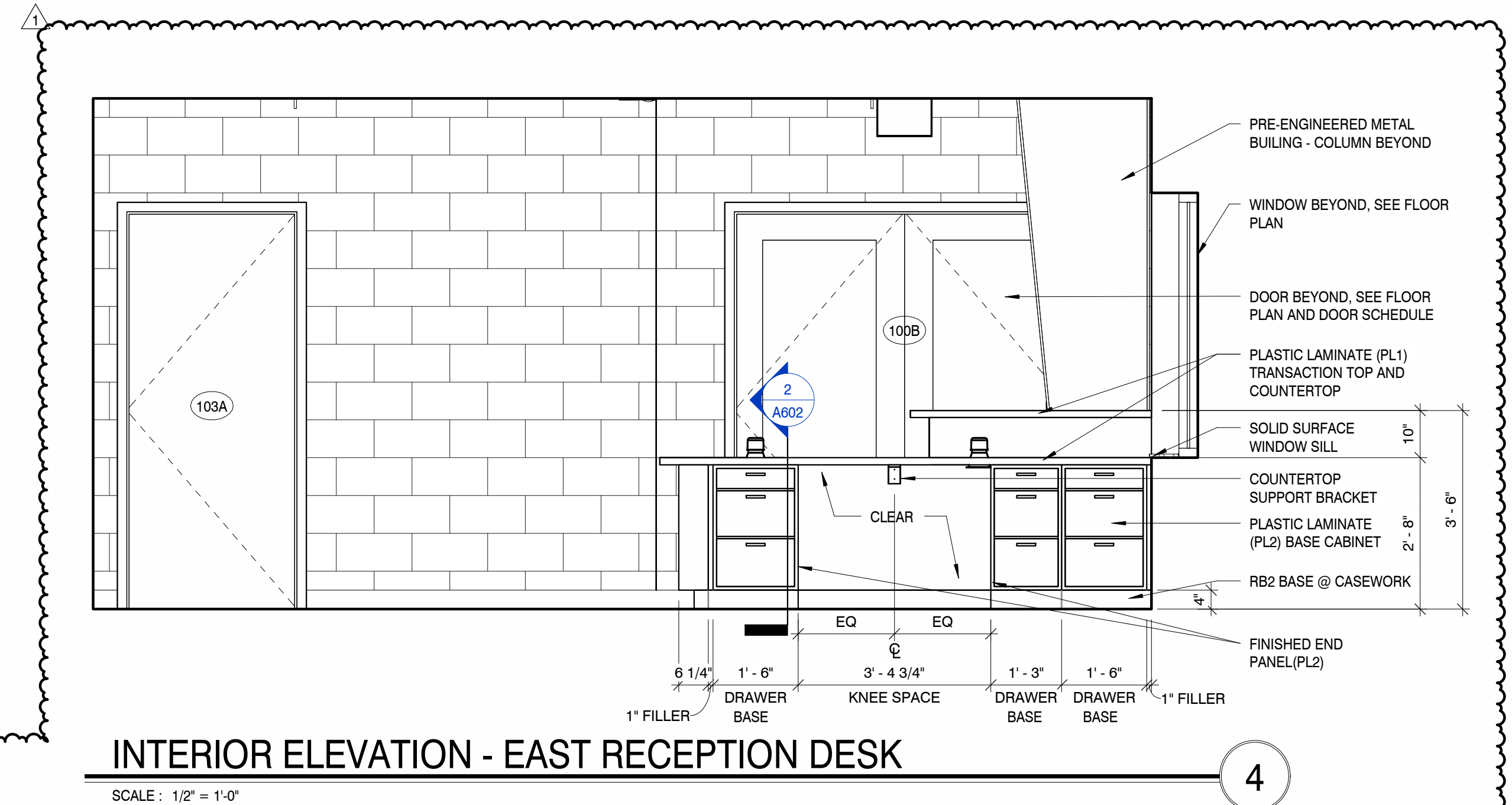
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SHEET ISSUED:	10/06/2023
DESIGNED BY:	CMG
DRAWN BY:	MDC
REVIEWED BY:	CMG
SHEET TITLE:	

ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS

SHEET NO.:

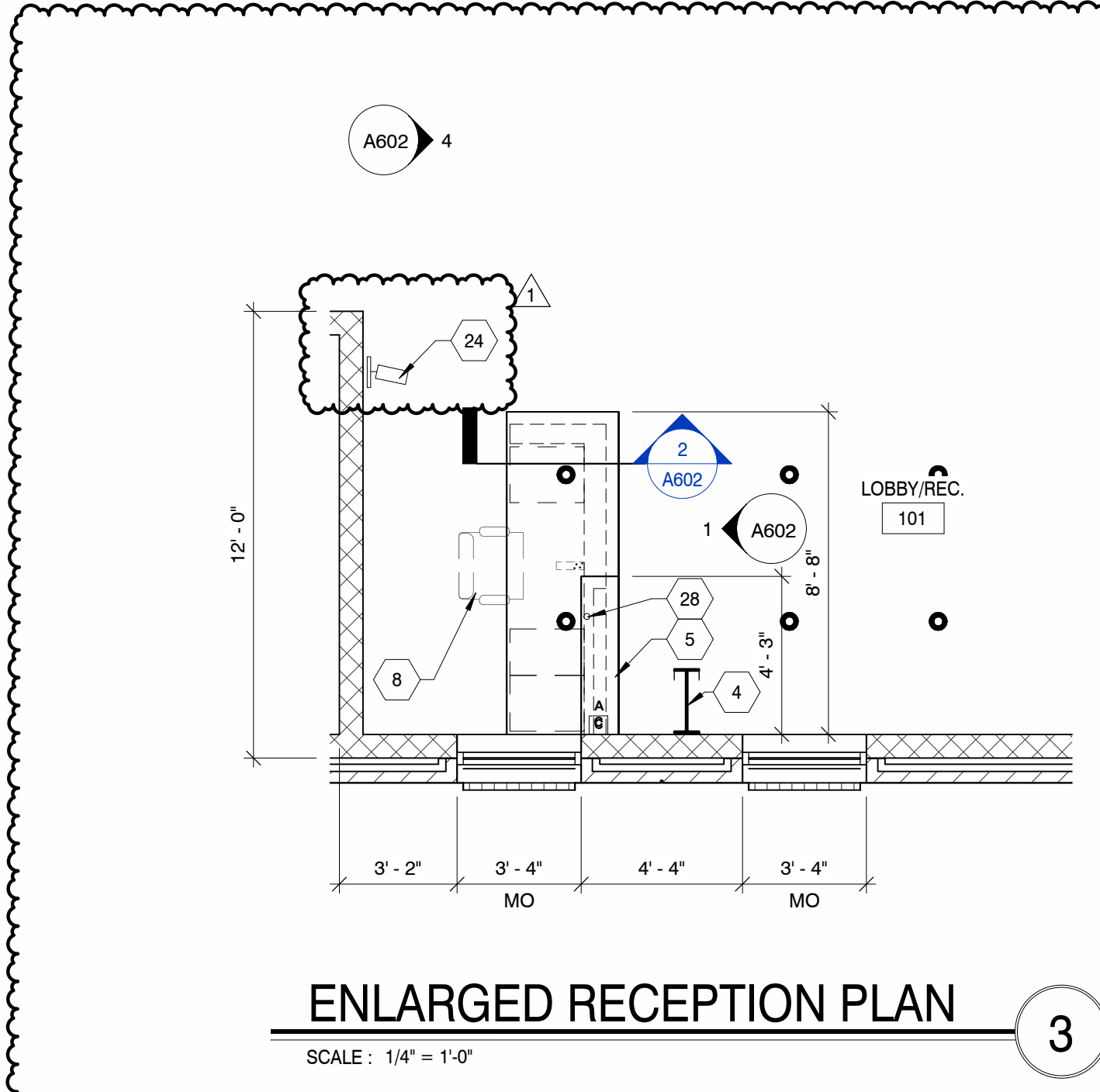
TFM # 00017-D
PROJECT # 2023-10-31-01

A602



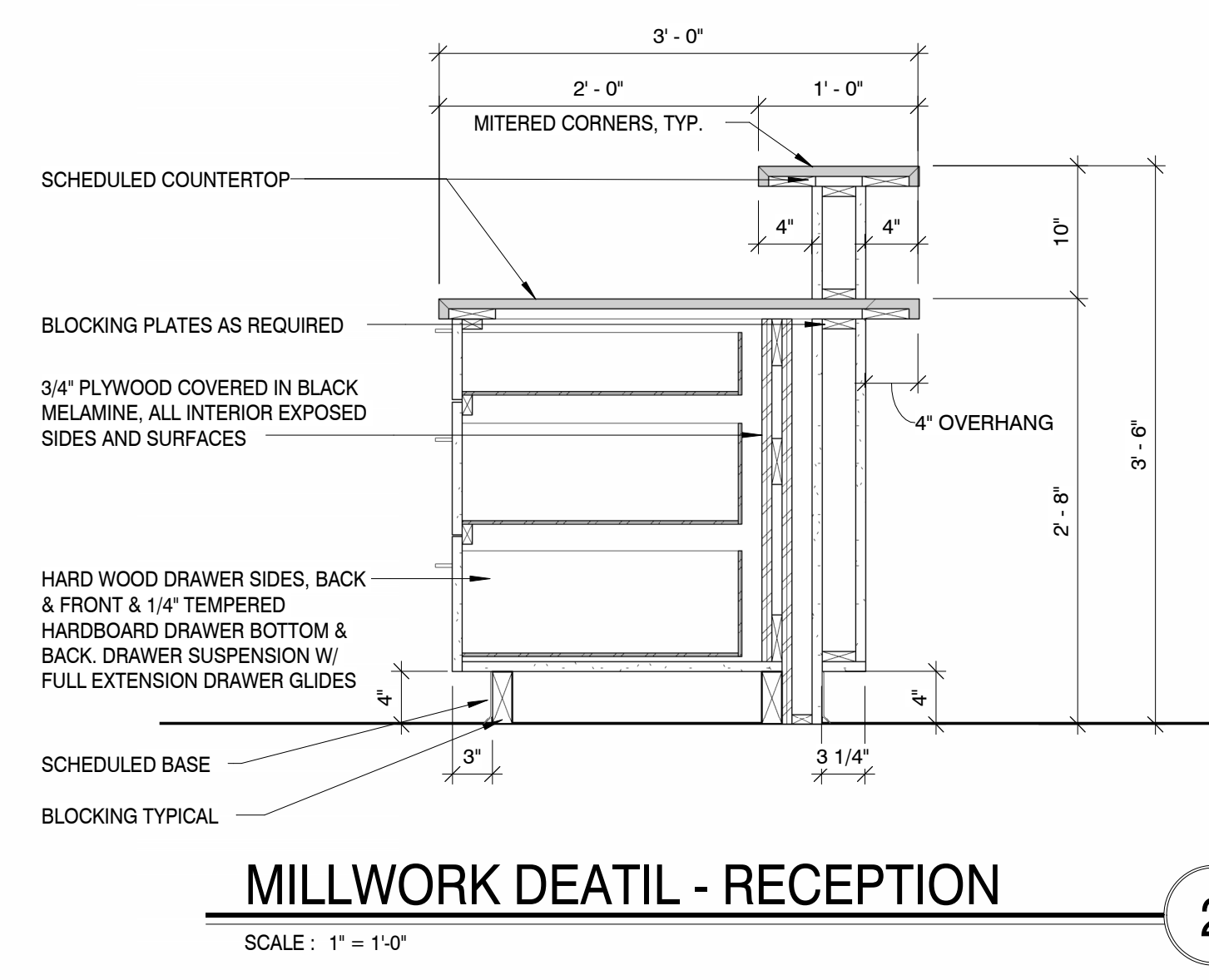
INTERIOR ELEVATION - EAST RECEPTION DESK
SCALE : 1/2" = 1'-0"

4



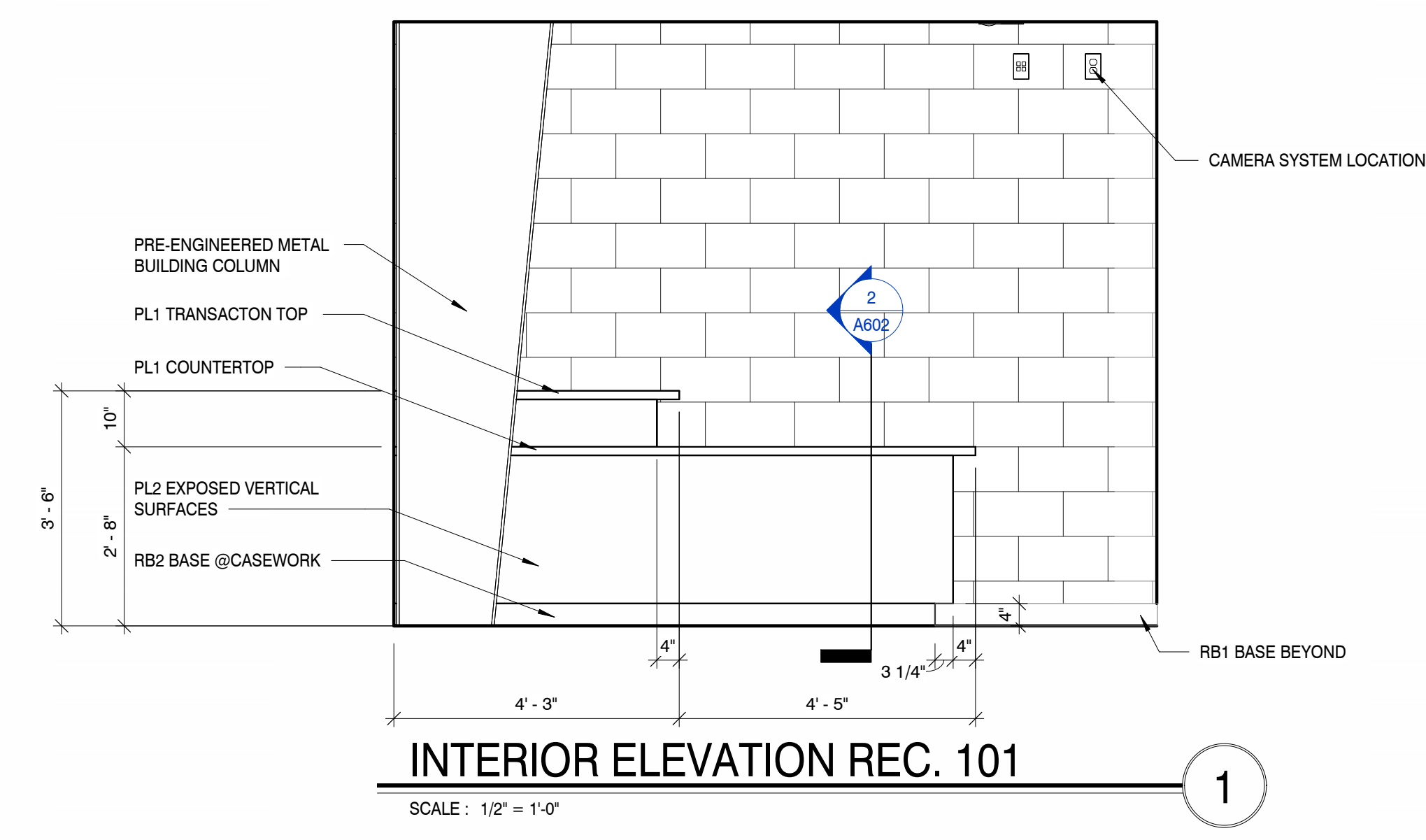
ENLARGED RECEPTION PLAN
SCALE : 1/4" = 1'-0"

3



MILLWORK DETAIL - RECEPTION
SCALE : 1" = 1'-0"

2



INTERIOR ELEVATION REC. 101
SCALE : 1/2" = 1'-0"

1

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PROJECT # 2023-10-31-01
 FIELD SET
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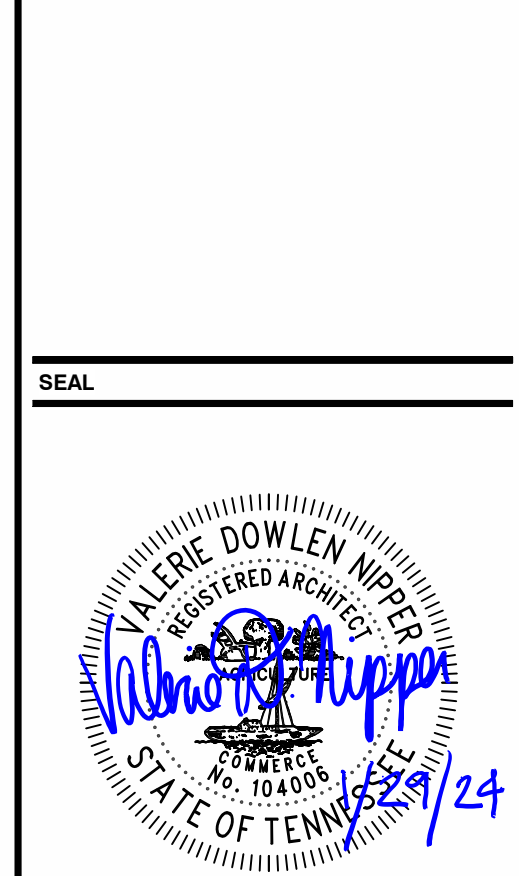
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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

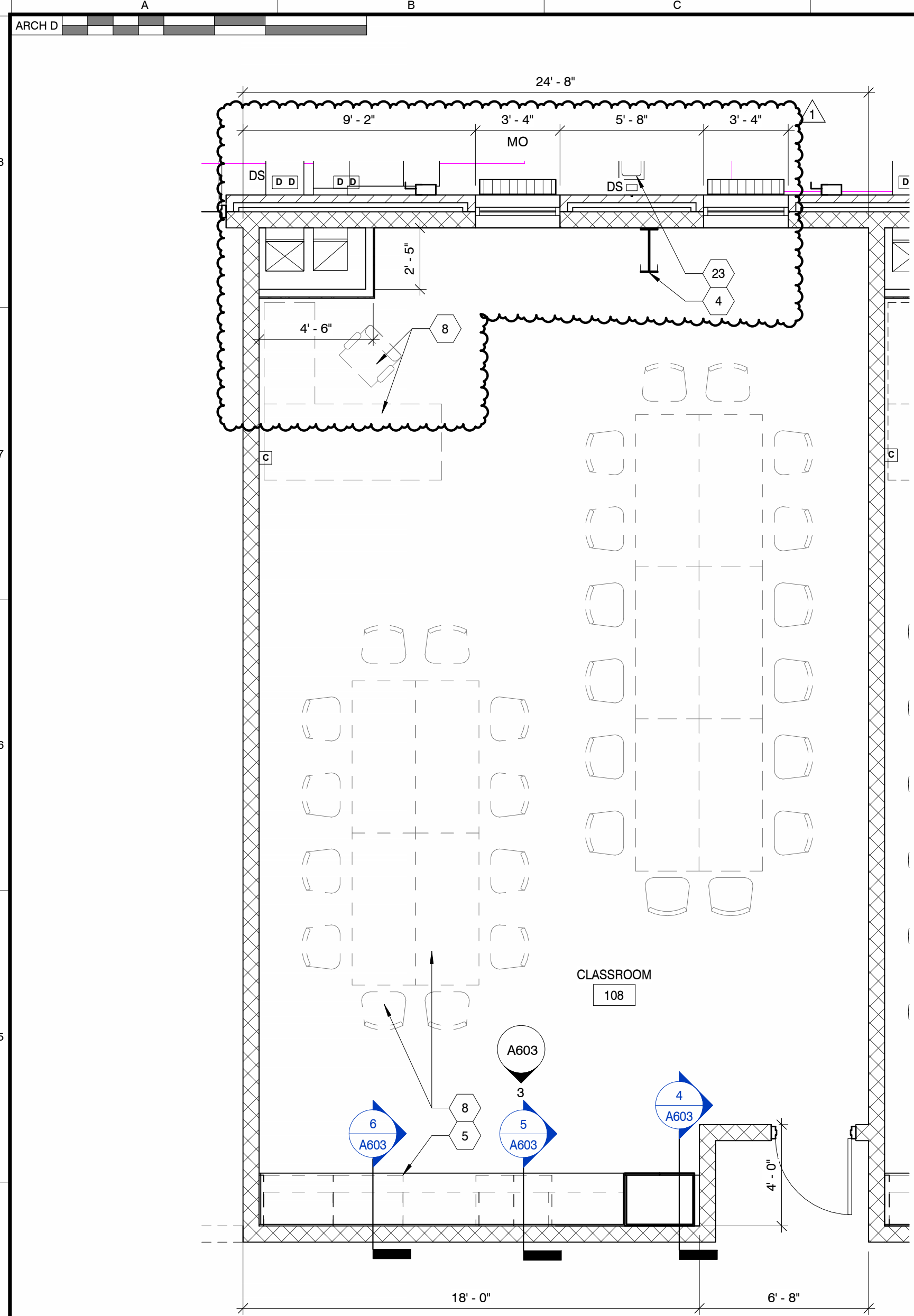
KEY PLAN

SHEET INFORMATION

SHEET ISSUED:	10/06/2023
DESIGNED BY:	CMG
DRAWN BY:	MDC
REVIEWED BY:	CMG
SHEET TITLE:	

ENLARGED PLANS, INTERIOR ELEVATIONS AND DETAILS

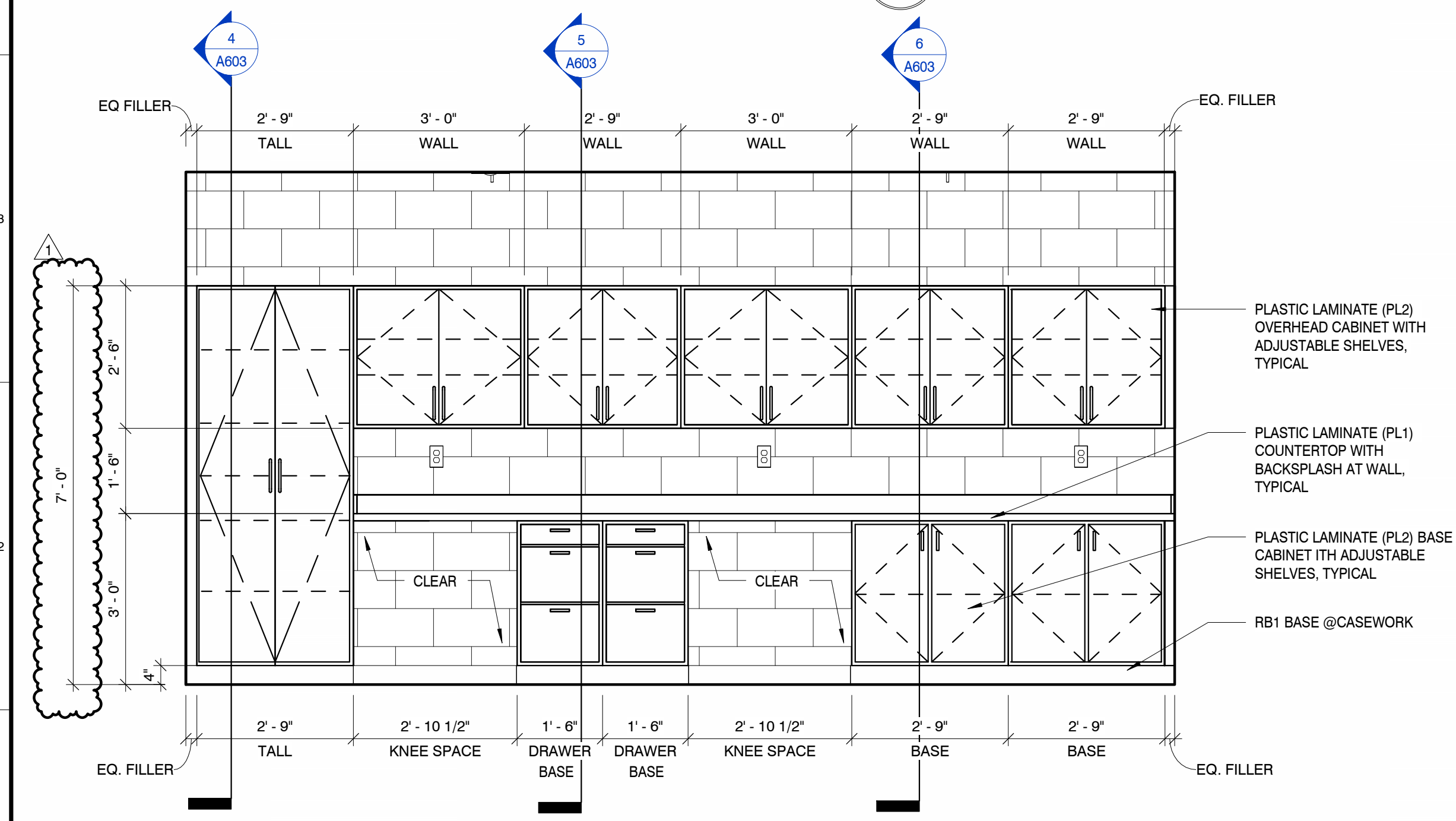
SHEET NO.: A603



ENLARGED CLASSROOM PLAN

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

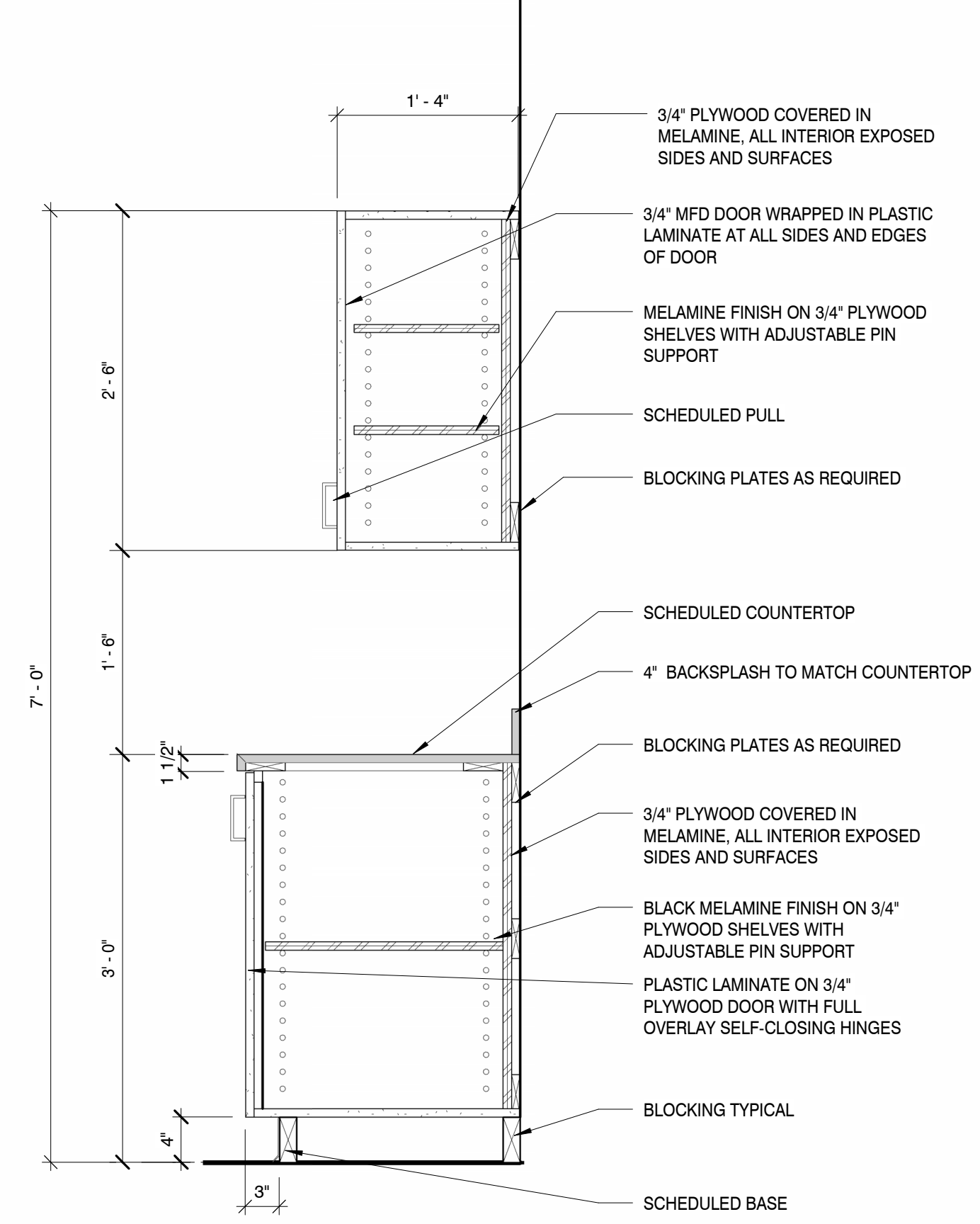
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CLASSROOM ELEVATION RM 104 & 108

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

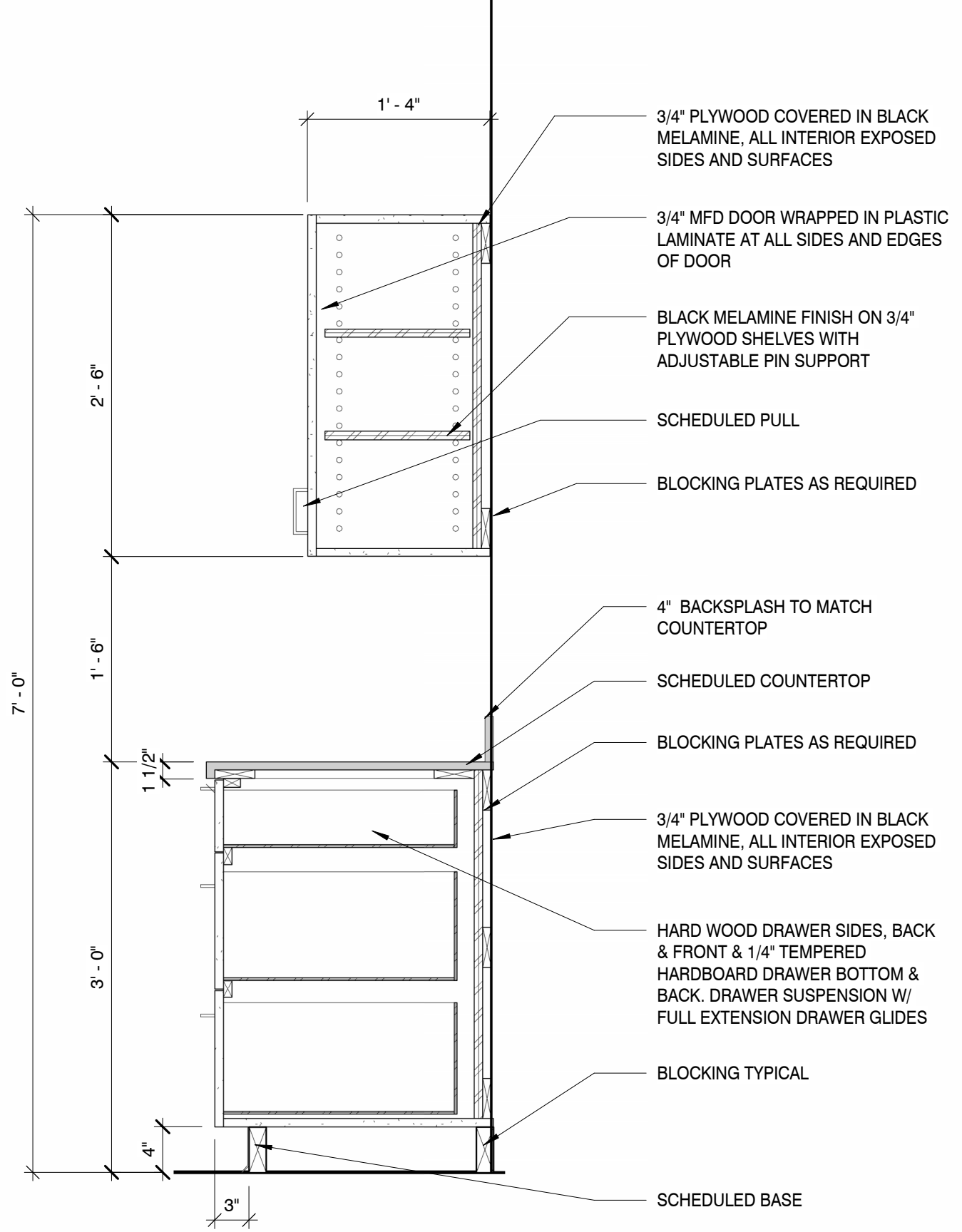
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MILLWORK DETAIL

SCALE: 1" = 1'-0"

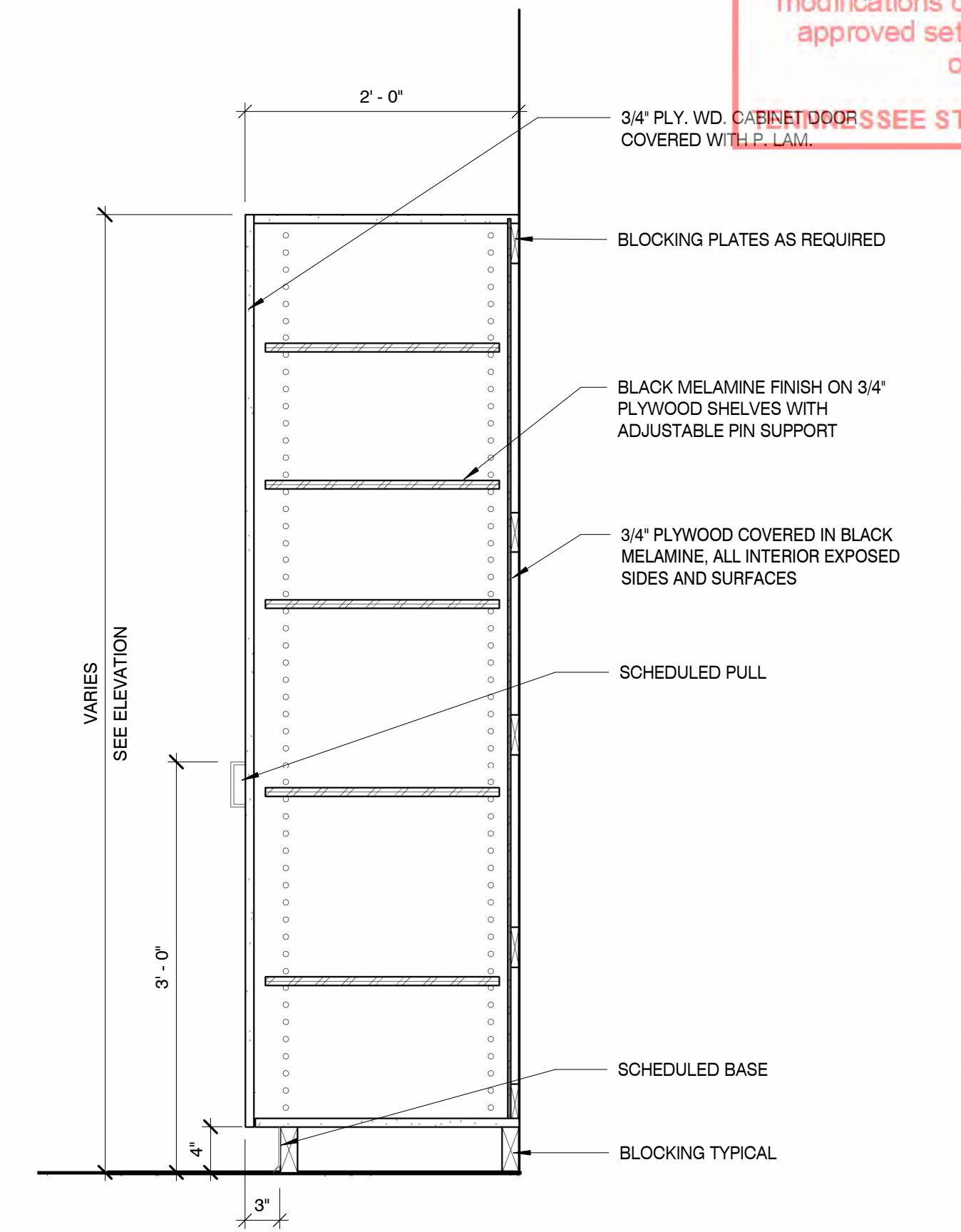
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MILLWORK DETAIL

SCALE: 1" = 1'-0"

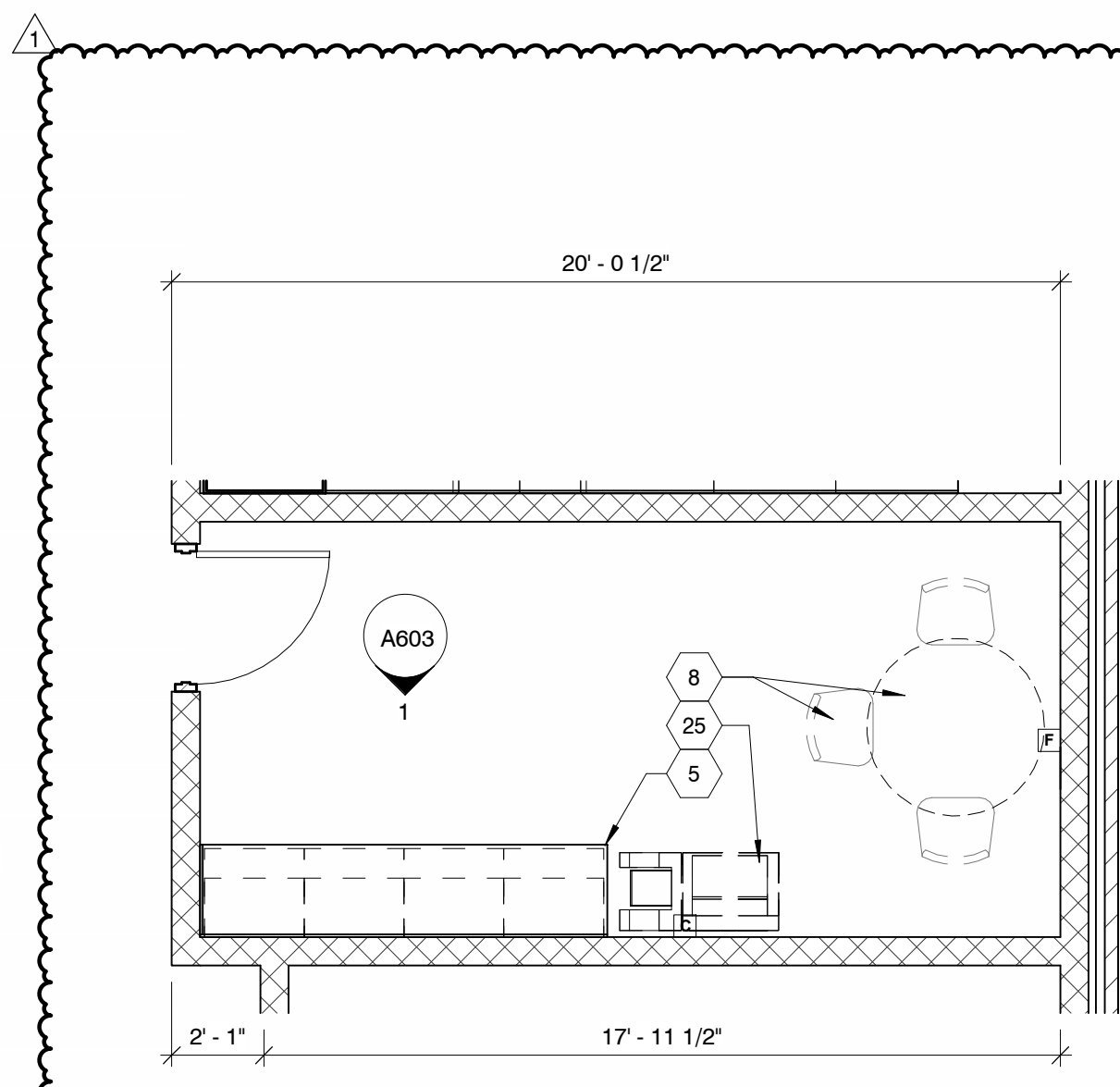
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MILLWORK DETAIL

SCALE: 1" = 1'-0"

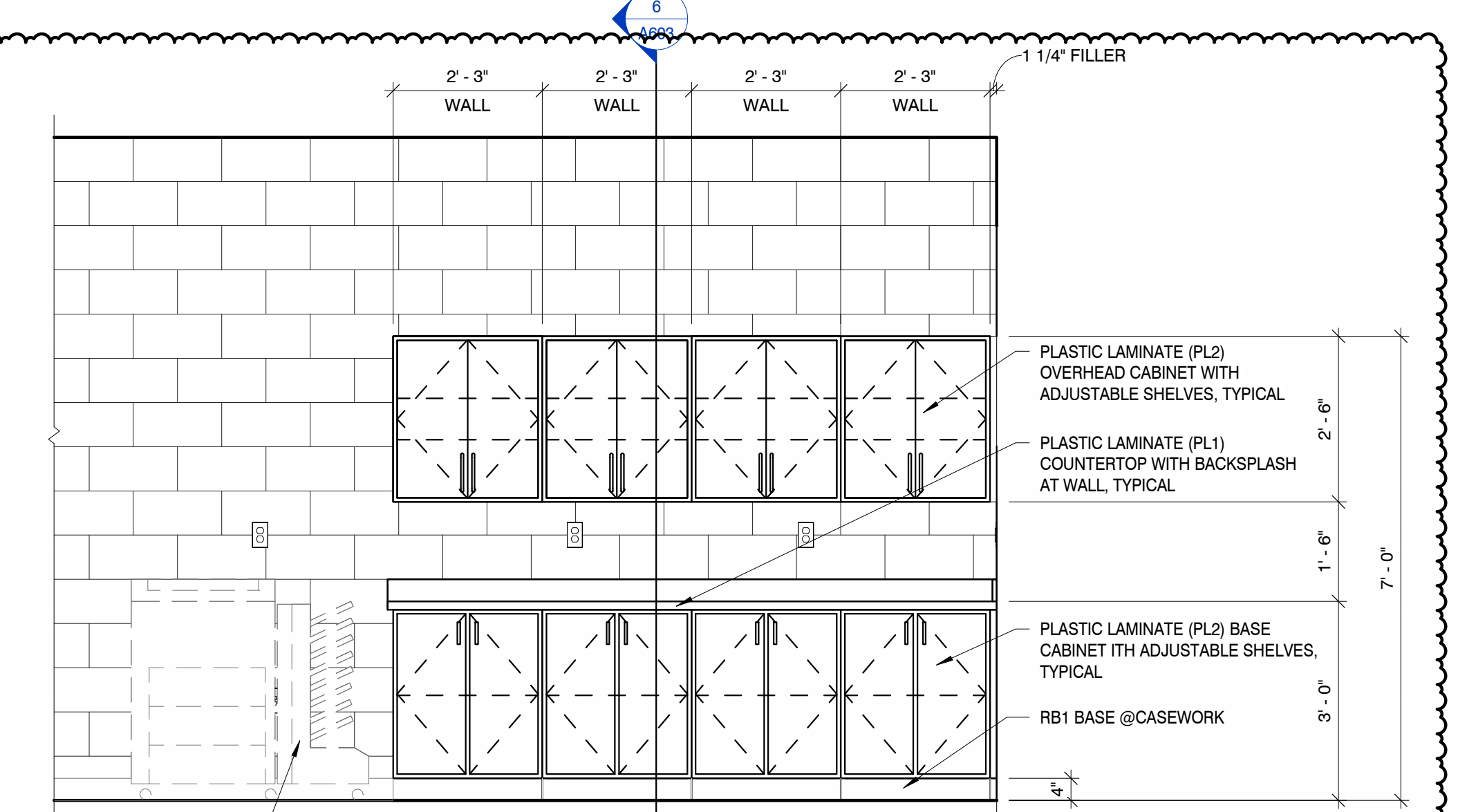
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ENLARGED WORKROOM PLAN

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

2



INTERIOR ELEVATION SOUTH WORKROOM 103

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

1

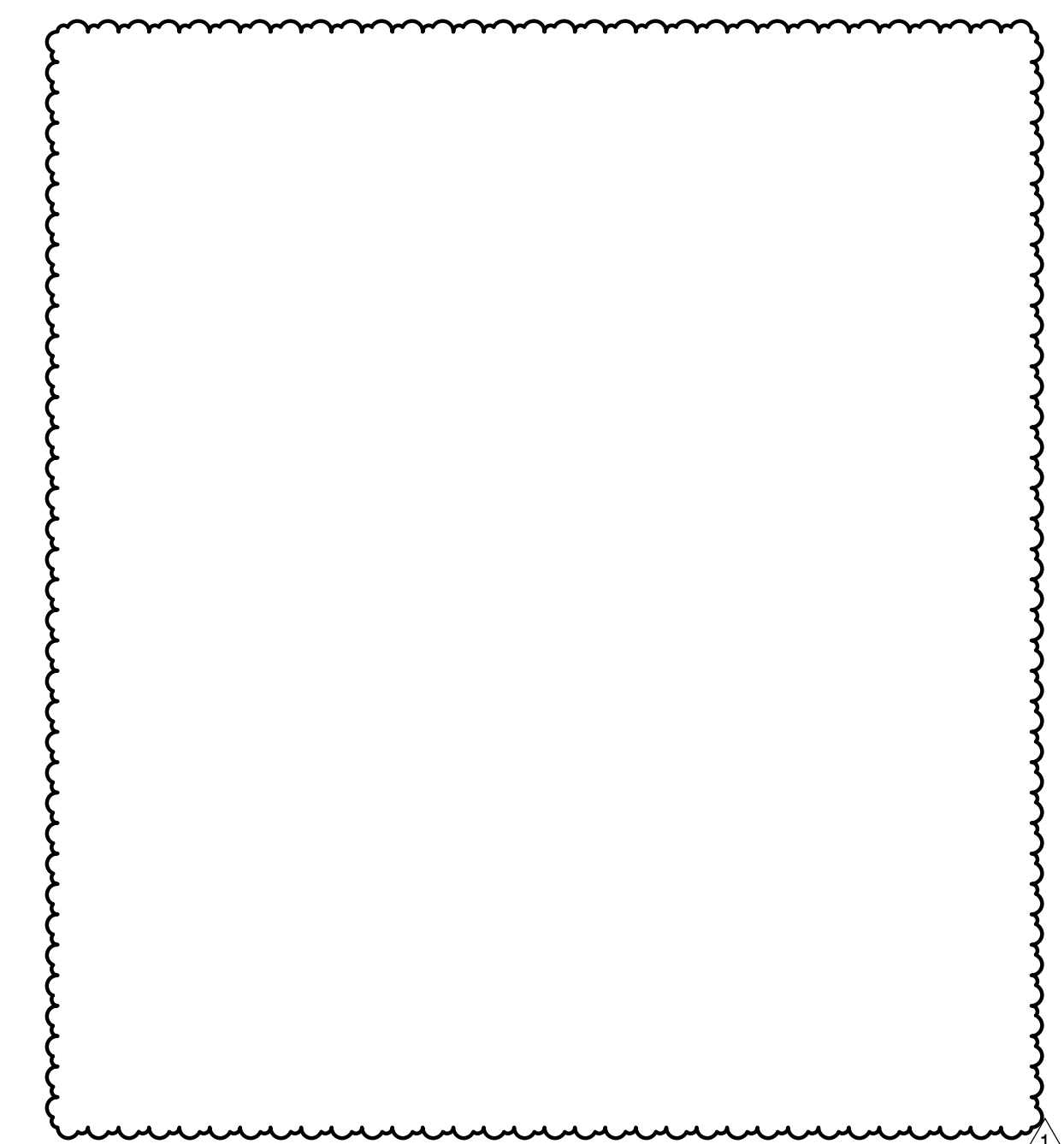
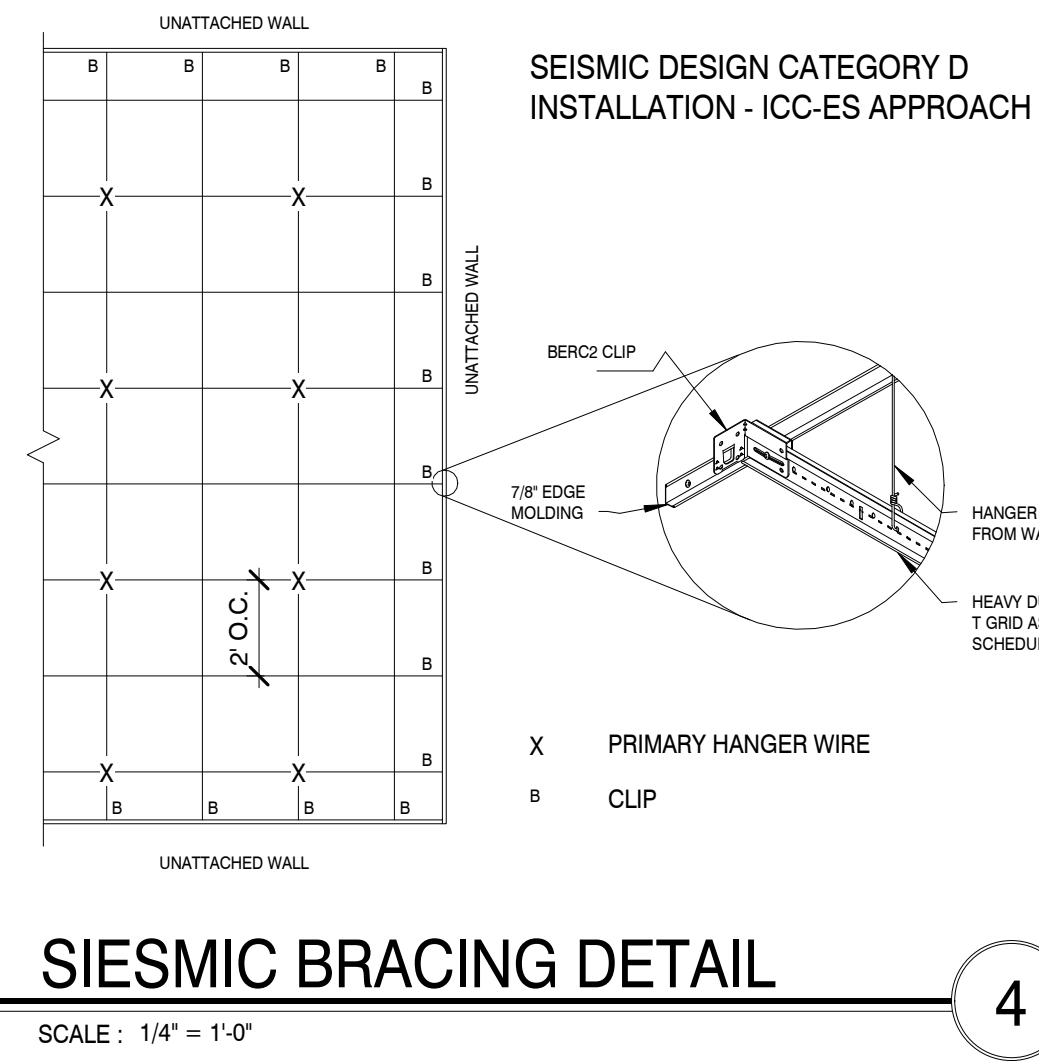
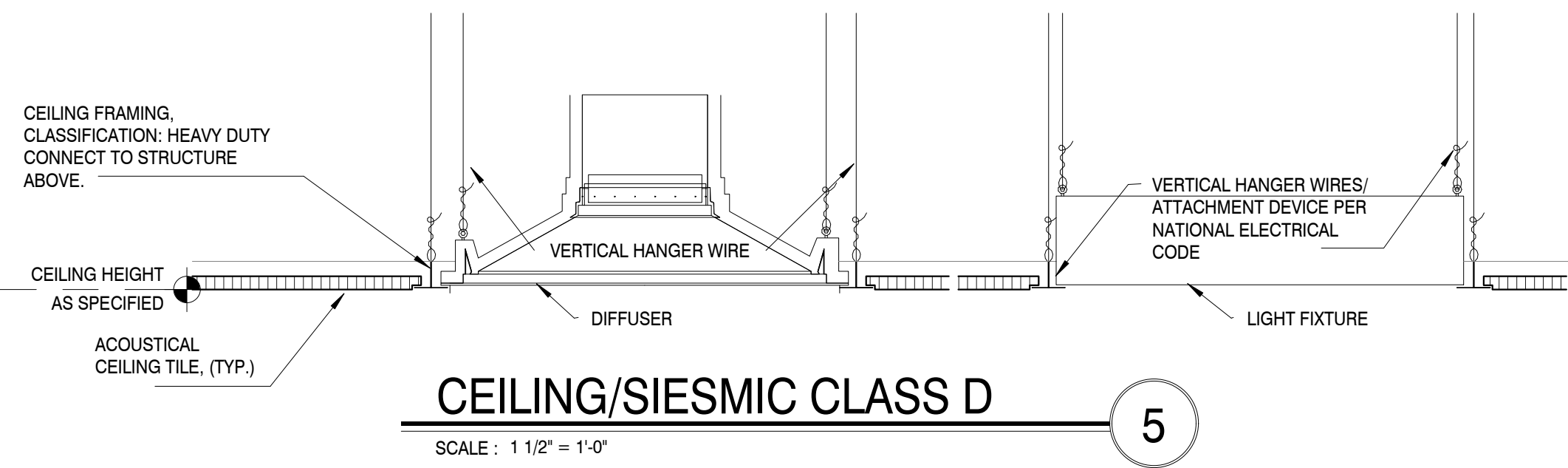
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TFM # 00017-D

PROJECT # 2023-10-31-01

FIELD SET

- NOTE:
1. CEILING GRID SHALL BE SUPPORTED FROM STRUCTURE ABOVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SEISMIC CATEGORY D, AND ALSO IN ACCORDANCE WITH ASCE 7-16. 12 GAUGE MIN. VERTICAL HANGER WIRES AT 4'-0" O.C. MAX. REFER TO SPECIFICATION 095113 ACOUSTICAL TREATMENT FOR ADDITIONAL INFORMATION.
 2. LIGHT FIXTURES SHALL BE SUPPORTED FROM STRUCTURE ABOVE WHERE REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SEISMIC CATEGORY D AND ALSO IN ACCORDANCE WITH ASCE 7-16. 12 GAUGE MIN. VERTICAL HANGER WIRE PER ASTM E580, 5.3.1 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE. UNLESS INDEPENDENTLY SUPPORTED, THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
 3. MECHANICAL DIFFUSERS SHALL BE SUPPORTED FROM STRUCTURE ABOVE WHERE REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SEISMIC CATEGORY D AND ALSO IN ACCORDANCE WITH ASCE 7-16. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.



- CEILING PLAN KEYNOTES**
1. CEILING RETRACTABLE COIL EXTENSION CORD REEL
 2. GAS UNIT HEATER
 3. CAMERA SYSTEM THAT MONITORS EACH ENTRANCE HALLWAY. MOUNTING HEIGHT TO BE VERIFIED WITH OWNER.

REFLECTED CEILING LEGEND

	2X4, FLAT PANEL LED FIXTURE
	2X2, FLAT PANEL LED FIXTURE
	PENDENT SPRINKLER
	UPRIGHT SPRINKLER
	8', LENSED STRIP INDUSTRIAL LED
	1X4, FLANGED, FLAT PANEL INDUSTRIAL LED
	6' DOWN LIGHT
	EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT
	EXIT LIGHT
	HVAC SUPPLY DIFFUSER
	HVAC R/A GRILL
	EXHAUST FAN
	24"X24" ACOUSTICAL CEILING TILE (ACT2 UNLESS OTHERWISE NOTED)
	24"X48" ACOUSTICAL CEILING TILE (ACT2 UNLESS OTHERWISE NOTED)
	5/8" GYP. BD. CEILING (TO BE PAINTED P1 UNLESS NOTED OTHERWISE)
	PREFINISHED FLUSH SEAM ALUMINUM SOFFIT
	9'-0" A.F.F. CEILING HEIGHT UNLESS OTHERWISE NOTED

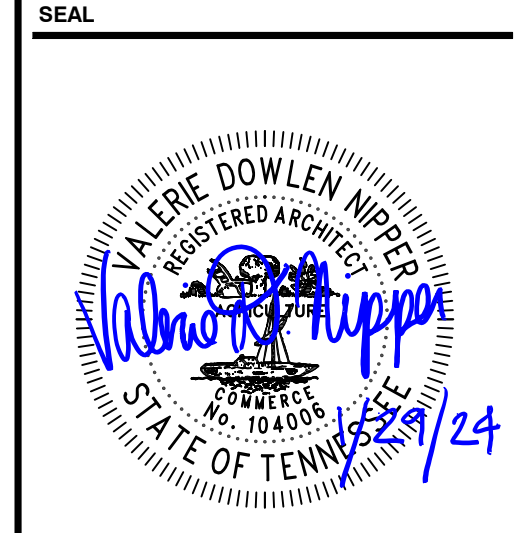
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KNOXVILLE, TN 37919

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CONSULTANT



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

<input type="checkbox"/>	FOR REVIEW ONLY
<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input checked="" type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

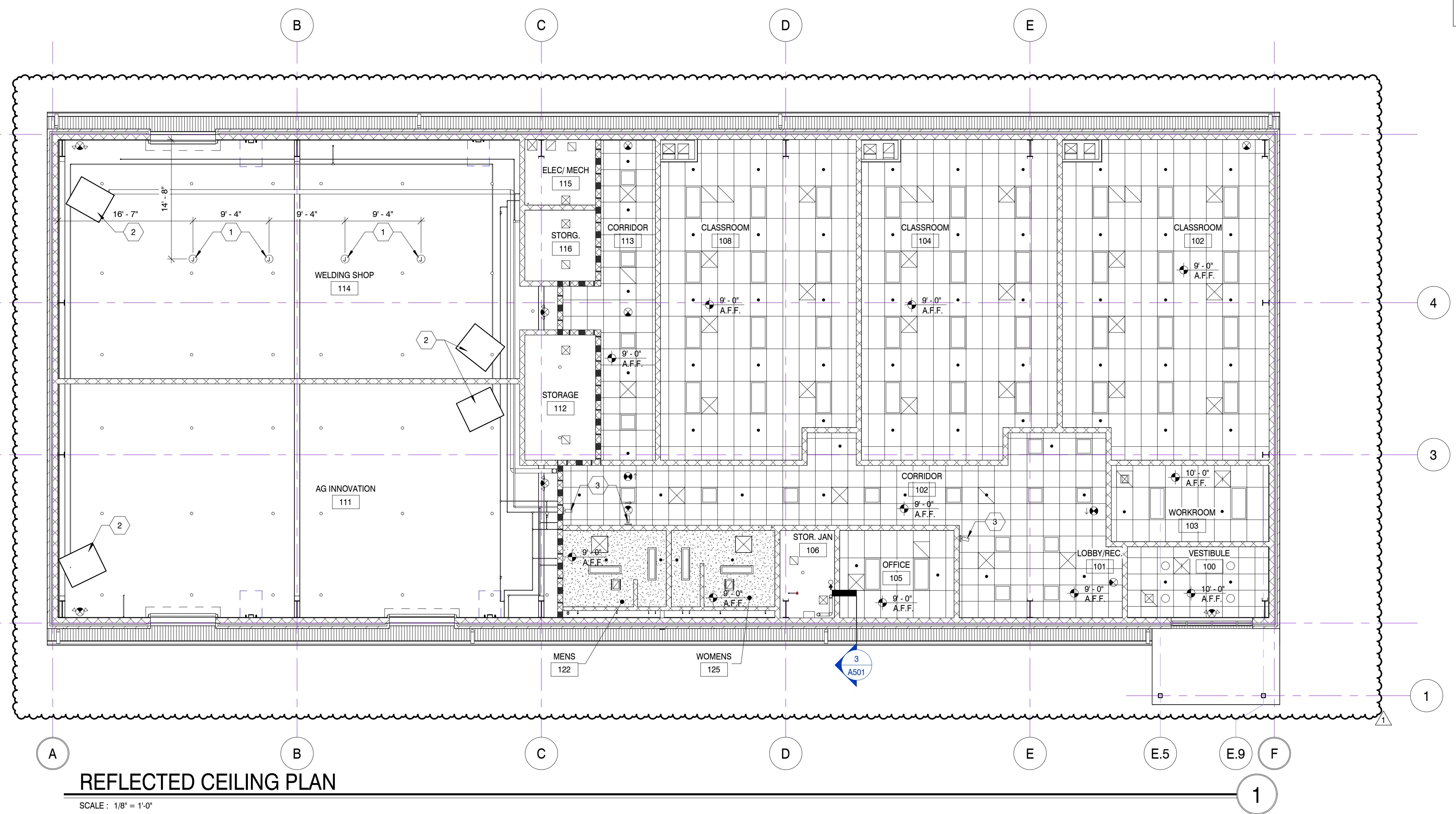
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: CMG
DRAWN BY: MDC
REVIEWED BY: CMG
SHEET TITLE:

REFLECTED CEILING PLAN AND DETAILS

SHEET NO.: A701



TFM # 00017-D
PROJECT # 2023-10-31-01

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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

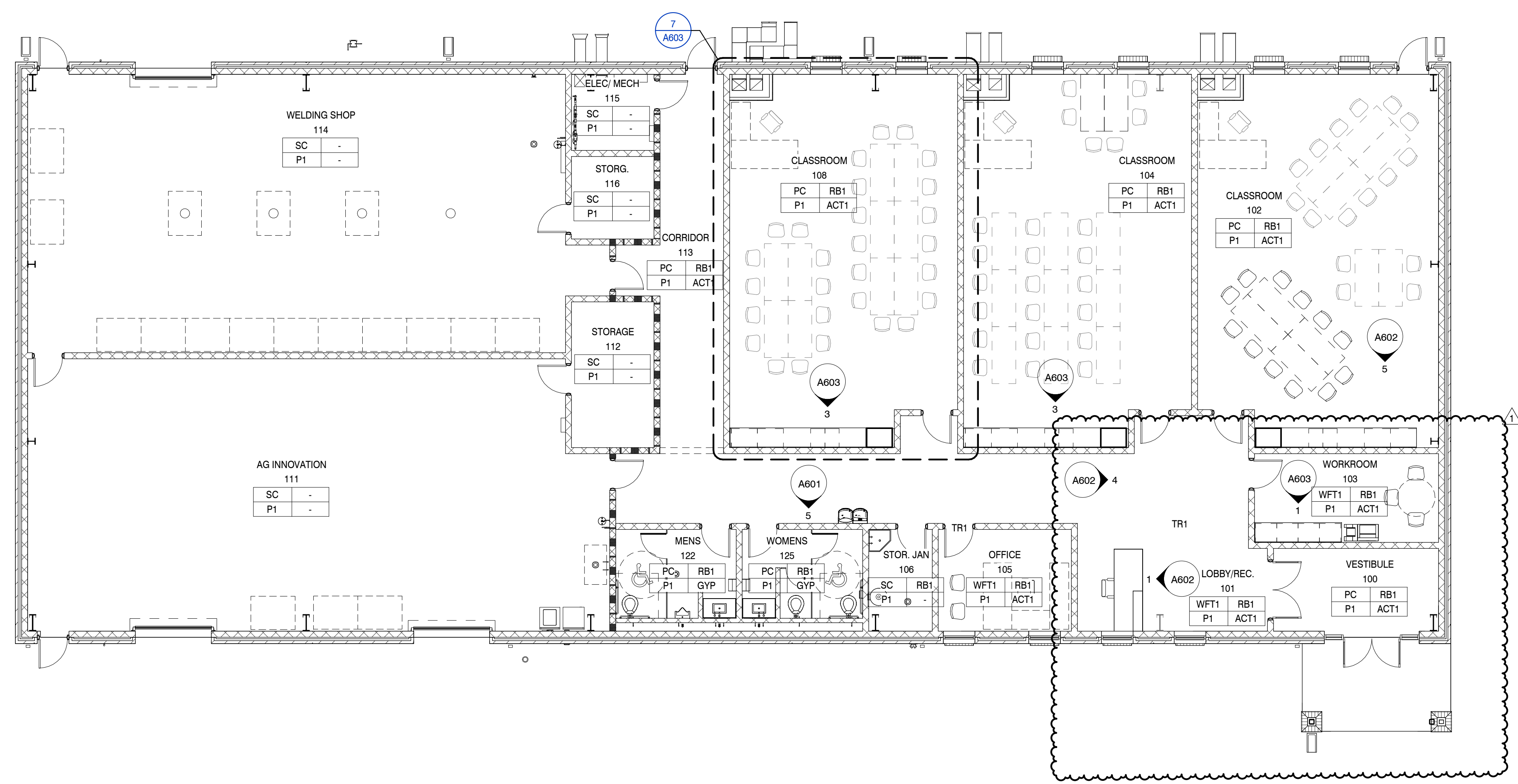
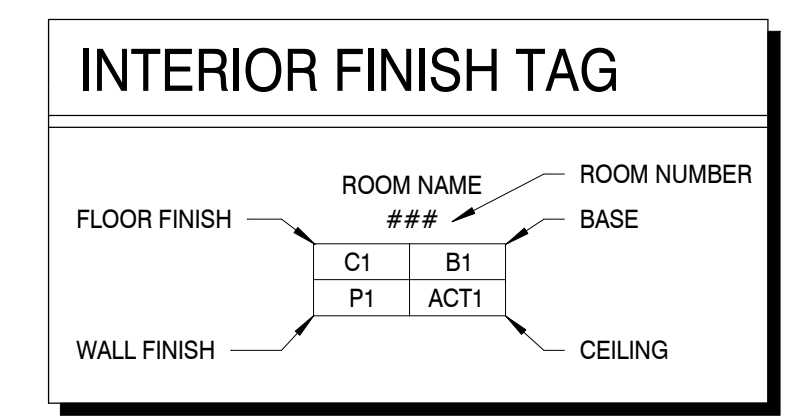
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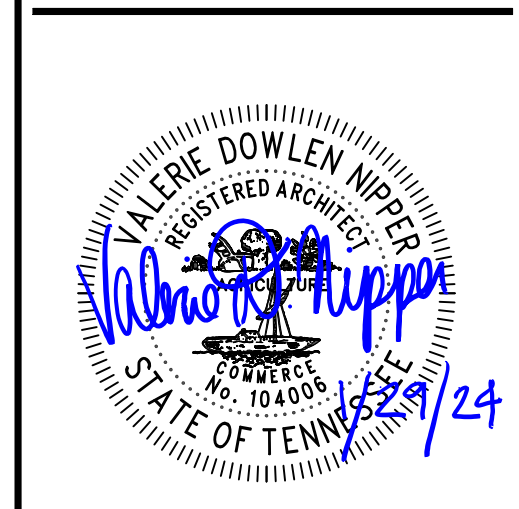
FINISH SCHEDULE			
CODE	ITEM	MANUFACTURER	DESCRIPTION
	FLOORING		NOTE: LOCATE THE FLOOR FINISH CHANGE AT DOOR OPENINGS AT THE CENTERLINE OF THE DOOR LEAF
WFT1	WOVEN FLOOR TILE	J+J FLOORING	KINETEX, AGAINST THE GRAIN 1840, COLOR: BARLEY 2819, 12X48, PARQUET INSTALLATION
SC	SEALED CONCRETE		GRAY STAIN
PC	POLISHED CONCRETE		GRAY STAIN
	WALL BASE		
RB1	RUBBER BASE	BPI	TARKETT, BURNT UMBER 63, 4" STANDARD
RB2	RUBBER BASE	BPI	TARKETT, 4" MILLWORK MONUMENT, MW-63-S4, BURNT UMBER 63 (MILLWORK LOCATIONS)
	WALLS		
P1	PAINT	SHERWIN WILLIAMS	SW 7064 PASSIVE (GENERAL WALL PAINT U.N.O.)
P2	PAINT	SHERWIN WILLIAMS	SW 7674 PEPPERCORN (HOLLOW METAL PAINT)
	CEILING		
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	STYLE: CALLA-2824 SQUARE TEGULAR, SIZE: 24" x 24" x 1", COLOR: WHITE, GRID: 9/16"
GYP	GYP. BD. BULKHEAD	SHERWIN WILLIAMS	PAINT (P1) UNLESS NOTED OTHERWISE
	MISC.		
ST1	STAIN	MASONITE	ASPIRO SERIES, SPECIES: WHITE BIRCH, COLOR: COCOA BEAN
TP1	TOILET PARTITION	SCRANTON	HINY HIDERS, FLOOR MOUNTED-OVERHEAD BRACE, ORANGE PEEL-SHALE, CONTINUOUS 71" H STAINLESS STEEL HELIX, OCCUPANCY INDICATOR, STAINLESS STEEL 71" CONTINUOUS STRIKE
PL1	PLASTIC LAMINATE	FORMICA	FOG 961C-58 (COUNTERTOP, RESTROOM APRON W/ MATCHING EDGE BAND)
PL2	PLASTIC LAMINATE	FORMICA	STORM 912C-58 (CABINET FRONT/SIDES)
TR1	TRANSITION	BPI	TARKETT, SLT-63-L
SS1	SOLID SURFACE	LIVINGSTONE	LT21 AVALANCE, 3CM EASED EDGE (RESTROOM COUNTERTOP)

- ### GENERAL INTERIOR NOTES
- ALL FURR DOWNS TO BE PAINTED P1 UNLESS OTHERWISE NOTED
 - ALL HOLLOW METAL PAINT SHALL HAVE SEMI-GLOSS FINISH
 - CONTRACTOR TO PROVIDE APPROPRIATE TRANSITIONS AS REQUIRED
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO SUBMIT ALL SAMPLES TO ARCHITECT FOR REVIEW AND APPROVAL
 - ALL GYPSUM WALL BOARD TO BE PAINTED
 - CONTRACTOR SHALL PROVIDE APPROPRIATE SEAM SEALANT FOR ALL CARPET TRANSITIONS
 - CONTRACTOR SHALL PROVIDE APPROPRIATE GROUT & SEALANT FOR ALL FLOOR & WALL TILE APPLICATIONS



FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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PROJECT INFORMATION
 PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
 PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

<input type="checkbox"/>	FOR REVIEW ONLY
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REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: CMG
 DRAWN BY: AJA
 REVIEWED BY: CMG
 SHEET TITLE:

FLOOR FINISH PLAN
 SHEET NO.: A901

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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

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TENNESSEE STATE FIRE MARSHAL'S OFFICE

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CONSULTANT
 STRUCTURAL ENGINEER

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SEAL

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STATE OF TENNESSEE
 COMMERCIAL
 No. 111885
 W. NICHOLAS DEAL, P.E., S.E.

PROJECT INFORMATION
 PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
 PROJECT ADDRESS: 411 DOUGLAS LN, CLINTON, TN 37716
 PROJECT NO.: 220042-02

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ACTIVE DESIGN PHASE
 FOR REVIEW ONLY
 FOR PERMITTING ONLY
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION BIDDING
 CONSTRUCTION DOCUMENTS
 AS-BUILT RECORD SET

REVISION INFORMATION
 NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION
 SHEET ISSUED: 10/06/2023
 DESIGNED BY: ZSP
 DRAWN BY: TLT
 REVIEWED BY: WND
 SHEET TITLE:

SPECIAL INSPECTIONS
 SHEET NO.: S002

PROJECT # 2023-10-31-01
 FIELD SET

GENERAL SPECIAL INSPECTION NOTES

- Special inspection is defined by the building code as "inspection of construction requiring the expertise of an approved special inspector in order to ensure compliance with this code and the approved construction documents" (see 2018 IBC Chapter 17).
- Definitions of special inspection frequency:
 - Continuous: Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
 - Periodic: Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.
 - Perform: Tasks to be performed for each welded joint or member or for each bolted connection.
 - Observe: Items to be observed on a random basis. Operations need not be delayed pending these inspections.
 - Document: Create a report documenting that the work has been performed in accordance with the contract documents.
- The owner or the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under 2018 IBC Section 1705. 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. The special inspector shall disclose all possible conflicts of interest so that objectivity can be confirmed by the building official and/or the design professional.
- Special inspectors are as defined in specification section 014500. All other testing falls under specification section 014000.
- Report requirements:
 - 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 the approved construction documents.
 - Discrepancies shall be brought to the immediate attention of the contractor for correction. If 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 the completion of that phase of the 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 the work.
- In the event that the project locale does not require a building official to be involved, the owner or owner's agent shall review the special inspection requirements with the design professional to determine which items for special inspection are mandatory.
- Special inspection items listed in the following tables are required if the inspection item pertains to the project.

STATEMENT OF SPECIAL INSPECTIONS

Project: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
 Location: 411 DOUGLAS LN, CLINTON, TN 37716
 Owner: ANDERSON CO. SCHOOLS
 Design Professional: W. NICHOLAS DEAL, P.E., S.E.

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 IBC. It includes a Schedule of Special Inspection Services applicable to the above referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes Requirements for Seismic Resistance and/or Requirements for Wind Resistance.

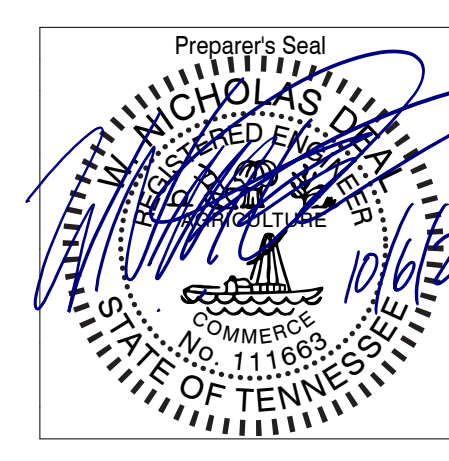
Are requirements for Seismic Resistance included in the Statement of Special Inspections? No
 Are requirements for Wind Resistance included in the Statement of Special Inspections? No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A Final Report of Special Inspections documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Building Official and Registered Design Professional in Responsible Charge shall be as follows:

Building Official: Monthly
 Design Professional in Responsible Charge: Bi-weekly

Statement of Special Inspections Prepared by:
 W. NICHOLAS DEAL, P.E., S.E.
 Type or print name



Signature Date
 Building Official's Acceptance:
 Signature Date

CONCRETE CONSTRUCTION

Required	Task	Extent	Description	Service
YES	1. Reinforcing steel, including prestressing tendons	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.	Field inspection
YES	2. Anchors cast in concrete	Periodic	Verify prior to placing concrete that cast in anchors have proper embedment, spacing and edge distance.	Field inspection
YES	3. Post-installed anchors or dowels	Periodic	Inspect all post-installed anchors/dowels as required by the approved ICC-ES report.	Field inspection and/or anchor capacity testing
YES	4. Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents.	Submital review and field verification
YES	5. Concrete slump, air content, and temperature	Continuous	At the time fresh concrete is sampled to fabricate specimens for strength test, verify these tests are performed.	Field inspection
YES	6. Concrete & shotcrete placement	Continuous	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	Field inspection
YES	7. Curing temperature and techniques	Periodic	Inspect curing, cold weather protection and hot weather protection procedures	Field inspection
NO	8. Pre-stressed concrete	Continuous	Verify application of prestressing forces and grouting of bonded prestressing tendons in the seismic force-resisting system.	Field inspection
NO	9. Erection of precast concrete	Periodic	Verify that all precast elements are lifted, assembled and braced in accordance with the approved construction documents.	Field inspection
YES	10. In-situ concrete strength verification	Periodic	Prior to the removal of shores and forms or the stressing of post-tensioned tendons, verify that adequate strength has been achieved.	Field inspection
YES	11. Formwork	Periodic	Inspect the forms to ensure that they are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.	Field inspection
NO	12. Reinforcement complying with ASTM A615 in special moment frames, special structural walls and coupling beams (only when Special Inspections for seismic resistance is required)	Periodic	Verify that ASTM A615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded, chemical tests shall be performed in accordance with ACI 318: 3.5.2.	Field inspection
NO	13. Reinforcement placement within progressive collapse resisting system (only when Special Inspections for progressive collapse resistance is required)	Continuous	Visually inspect reinforcing steel placement with a particular emphasis on reinforcing steel anchorages, laps and other details within the progressive collapse resisting system, including horizontal tie force elements, vertical tie force elements and bridging elements.	Field inspection

STRUCTURAL STEEL CONSTRUCTION

Required	Task	Extent	Description	Service
YES	1. Verify welding procedure specifications (WPS) and consumable certificates	Perform		Submital review
YES	2. Material identification (type/grade)	Observe		Shop and field inspection
YES	3. Welder identification system	Observe	A system shall be maintained by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress dye type.	Submital review
YES	4. Fit-up of groove welds (including joint geometry)	Observe	Verify joint preparation, dimensions (alignment, root opening, root face, bevel), cleanliness (condition of surface steel), tacking (tack weld quality and location), and backing type and fit (if applicable).	Shop and field inspection
YES	5. Configuration and finish of access holes	Observe		Shop and field inspection
YES	6. Fit-up of fillet welds	Observe	Verify dimensions (alignment, gaps at root), cleanliness (condition of steel surfaces), and tacking (tack weld quality and location).	Shop and field inspection

Required	Task	Extent	Description	Service
YES	1. Use of qualified welders	Observe		Shop and field inspection
YES	2. Control and handling of welding consumables	Observe	Verify packaging and exposure control.	Shop and field inspection
YES	3. No welding over cracked tack welds	Observe		Shop and field inspection
YES	4. Environmental conditions	Observe	Verify wind speed within limits and precipitation and temperature criteria being met.	Shop and field inspection
YES	5. WPS followed	Observe	Verify settings on weld equipment, travel speed, selecting welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained (min./max.), proper position (F, V, H, OH), and intermix of filler metals avoided unless approved.	Submital review with shop and field verification
YES	6. Welding techniques	Observe	Verify interpass and final cleaning, each pass within profile limitations, and each pass meets quality requirements.	Shop and field inspection
YES	7. Placement and installation of steel headed stud anchors	Perform		Field inspection

Required	Task	Extent	Description	Service
YES	1. Welds cleaned	Observe		Shop and field inspection
YES	2. Size, length and location of welds	Perform		Shop and field inspection
YES	3. Welds meet visual acceptance criteria	Perform	Verify crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, and porosity.	Shop and field inspection
YES	4. Arc strikes	Perform		Shop and field inspection
YES	5. k-area	Perform	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of the weld.	Shop and field inspection
YES	6. Backing removed and weld tabs removed (if required)	Perform / Document		Shop and field inspection
YES	7. Backing removed, weld tabs removed and finished, and fillet welds added (if required)	Perform / Document		Shop and field inspection
YES	8. Placement of reinforcing or contouring fillet welds (if required)	Perform / Document		Shop and field inspection
YES	9. Repair activities	Perform		Shop and field inspection
YES	10. Document acceptance or rejection of welded joint or member	Perform		Shop and field inspection

Required	Task	Extent	Description	Service
YES	1. Document acceptance or rejection of bolted connections	Perform		Field inspection

Required	Task	Extent	Description	Service
YES	1. Anchor rods and other embedments supporting structural steel	Perform	Verify the diameter, grade, type and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.	Field inspection
YES	2. Fabricated steel or erected steel frame	Observe	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.	Field inspection

MASONRY CONSTRUCTION - LEVEL B

Required	Task	Extent	Description	Service
YES	1. Review material certificates, mix designs, test results and construction procedures	Periodic	Verify that materials conform to the requirements of the approved construction documents.	Submital review

Required	Task	Extent	Description	Service
YES	1. Proportions of site-prepared mortar	Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C270, and that it is mixed in accordance with TMS 602: 2.1, 2.6A, and 2.6C.	Submital review and field verification
NO	2. Grade and size of prestressing tendons and anchorages	Periodic	Verify that prestressing tendons comply with TMS 602: 2.4B and that anchorages, couplers, and end blocks comply with 2.4H.	Field inspection
YES	3. Grade, type, and size of reinforcement, connectors, and prestressing tendons and anchorages	Periodic	Verify that reinforcement is placed in accordance with TMS 602: 3.4. Prestressing tendons shall be placed per 3.6A.	Field inspection
NO	4. Prestressing technique	Periodic	Verify that prestressing technique complies with TMS 602: 3.6B.	Field inspection
NO	5. Properties of thin-bed mortar for AAC masonry	Continuous / Periodic	Verify that mortar complies with TMS 602: 2.1 C.1. Continuous inspection for the first 5000 sf of wall and periodic for all following applications.	Field inspection
NO	6. Sample panel construction	Periodic	Verify that sample panels contain full range of unit and mortar color. Each procedure should be demonstrated on sample panel per TMS 602: 1.6D.	Field inspection

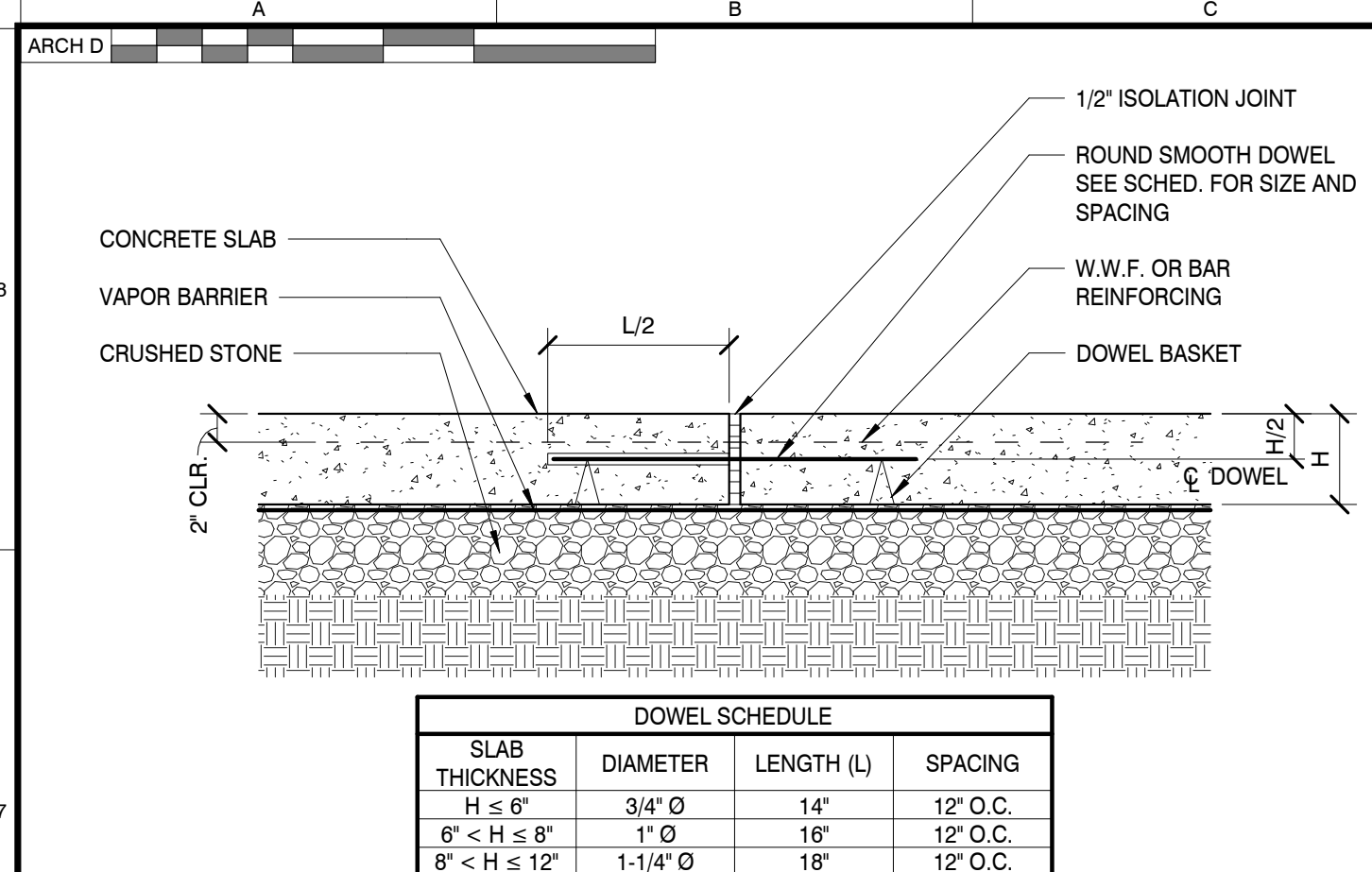
Required	Task	Extent	Description	Service
YES	1. Grout space	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per TMS 602: 3.2D and 3.2F.	Field inspection
NO	2. Placement of prestressing tendons and anchorages.	Periodic	Verify that provided reinforcement conforms to TMS 602 2.4. Confirm tolerances for prestressed tendon placement and forces meet TMS 602: 3.6.	Field inspection
YES	3. Placement of reinforcement, connectors, and anchor bolts.	Periodic	Verify reinforcement was placed in grout space prior to grouting. Confirm reinforcement, wall ties, and anchors are sized, selected, and located as specified in the project drawings. TMS 602: 3.2E and 3.4.	Field inspection
YES	4. Proportions of site-prepared grout and prestressing grout for bonded tendons	Periodic	Verify that grout is proportioned per ASTM C476 and has a slump between 8" to 11". Self-consolidated grout shall not be proportioned onsite.	Field inspection

Required	Task	Extent	Description	Service
YES	1. Materials and procedures with the approved submittals	Periodic	Ensure materials are used in compliance with construction procedures outlined in TMS 602: 1.5	Field inspection
YES	2. Placement of masonry units and mortar joint construction	Periodic	Verify bed joints are constructed in compliance with TMS 602: 3.3B	Field inspection
YES	3. Size and location of structural members	Periodic	Verify the locations of structural elements with respect to the approved construction documents and confirm that tolerances meet the requirements of TMS 602: 3.3F.	Field inspection
YES	4. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	Periodic	Verify that correct anchorages and connections are provided per the approved construction documents and TMS 402: 1.2.1, 6.2.1, and 6.3.1.	Field inspection
NO	5. Welding of reinforcement	Continuous	Verify welded reinforcement meets the requirements of TMS 402: 6.1.6.1.2.	Field inspection
YES	6. Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F)	Periodic	Verify that cold weather construction is performed in accordance with TMS 602: 1.8C and hot weather construction per TMS 602: 1.8D.	Field inspection
NO	7. Application and measurement of prestressing force	Continuous	Verify the proper prestressing force is applied per TMS 602: 3.6B.	Field inspection
YES	8. Placement of grout and prestressing grout for bonded tendons is in compliance	Continuous	Verify placement of grout is done in accordance with TMS 602: 3.5 and placement of grout for bonded tendons is in accordance with TMS 602: 3.6C.	Field inspection
NO	9. Placement of AAC masonry units and construction of thin-bed mortar joints	Continuous / Periodic	Verify that mortar is placed in accordance with TMS602: 3.3B.9 and 3.3F.1.b. Continuous inspection for the first 5000 sf of wall and periodic for all following applications.	Field inspection
YES	10. Observation of grout specimens, mortar specimens, and/or prisms	Periodic	Confirm that specimens/prisms are performed as required by TMS 602: 1.4.	Field inspection

SOILS CONSTRUCTION

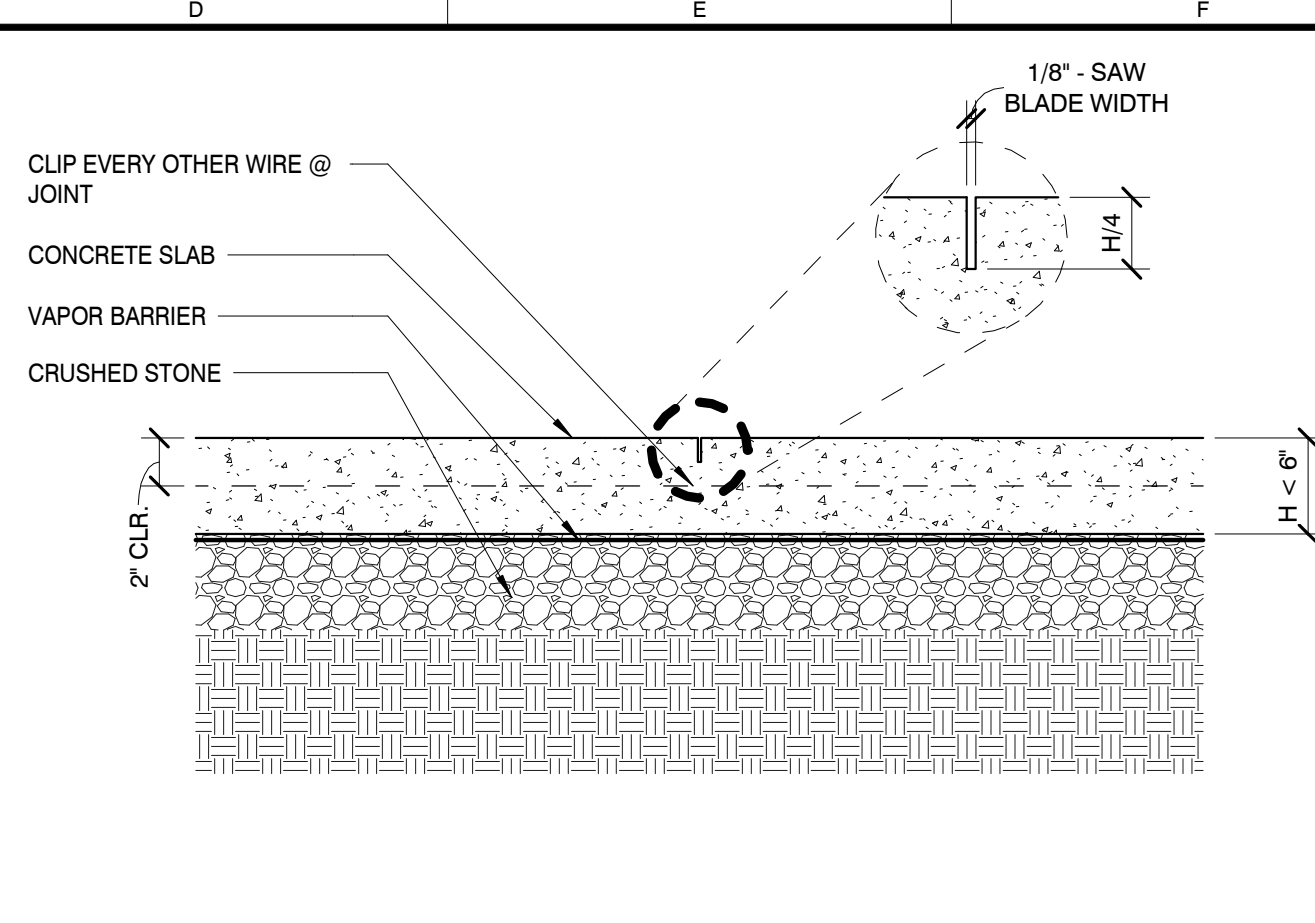
Required	Task	Extent	Description	Service
YES	1. Foundation bearing capacity	Periodic	Verify the materials below foundations are adequate to achieve the design bearing capacity.	Field inspection
YES	2. Excavations	Periodic	Verify the excavations are extended to the proper depth and have reached proper material.	Field inspection
YES	3. Perform classification and testing of compacted fill material	Periodic		Field inspection
YES	4. Compacted fill material	Continuous	Verify the use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Field inspection
YES	5. Subgrade	Periodic	Prior to placement of compacted fill, observe sub-grade and verify that the site has been properly prepared.	Field inspection

Architect: D:\2023\10-31-01\Clinton High School Welding Building\220042-02_Rv23.rvt 10/26/2023 10:52:21 AM

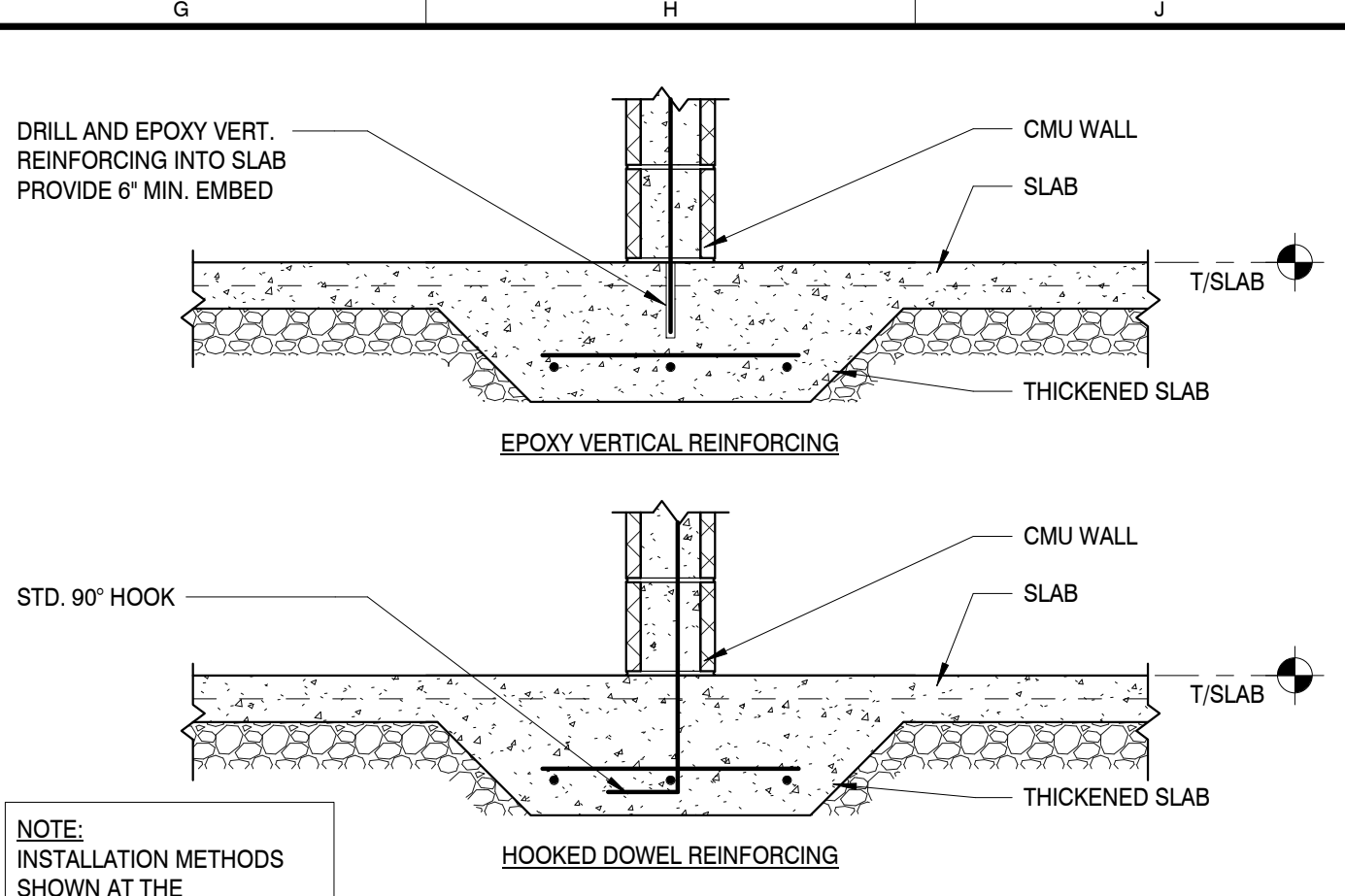


DOWEL SCHEDULE			
SLAB THICKNESS	DIAMETER	LENGTH (L)	SPACING
H ≤ 6"	3/4" Ø	14"	12" O.C.
6" < H ≤ 8"	1" Ø	16"	12" O.C.
8" < H ≤ 12"	1-1/4" Ø	18"	12" O.C.

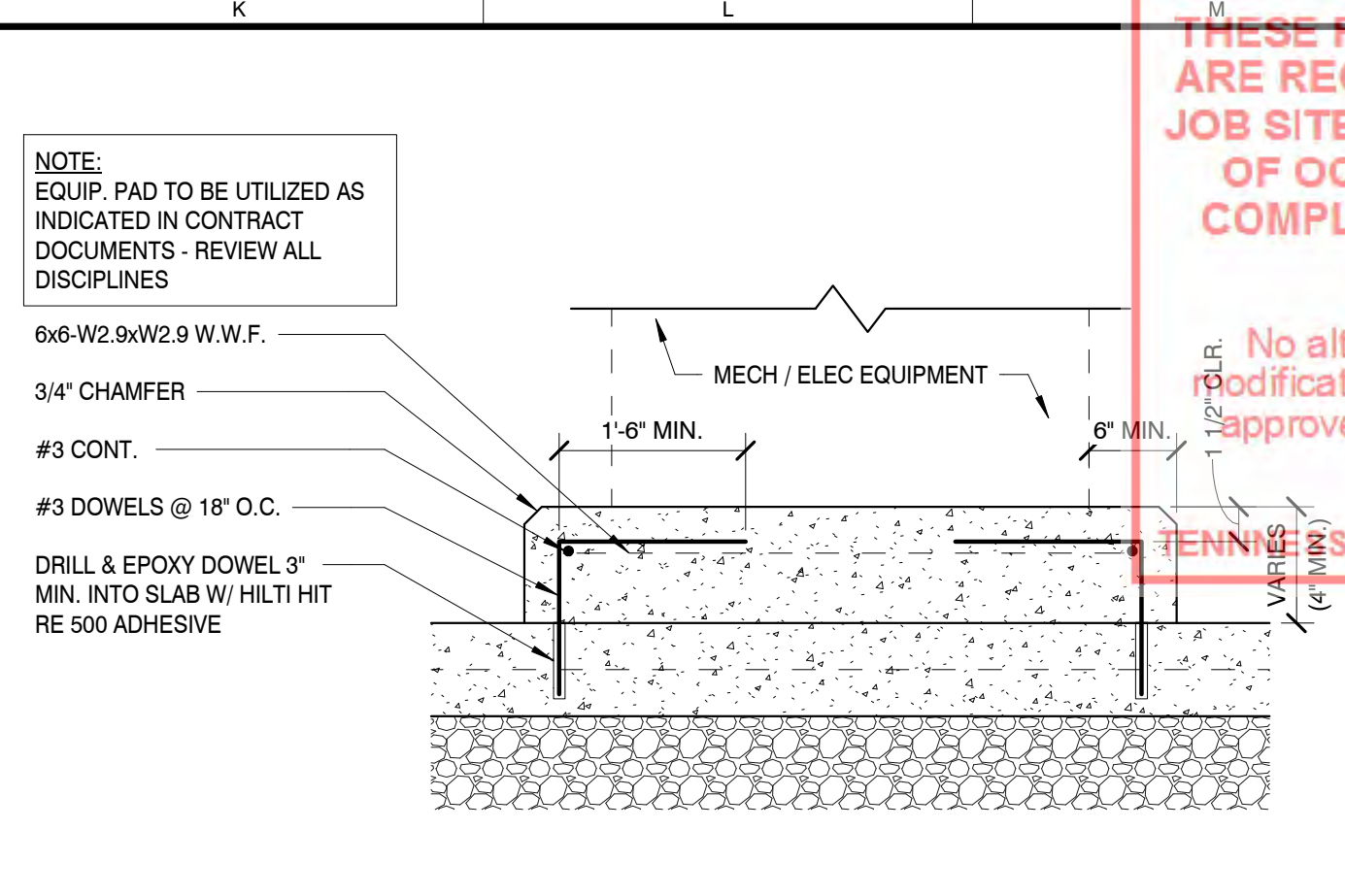
CONSTRUCTION JOINT DETAIL 1
SCALE: 1 1/2" = 1'-0"



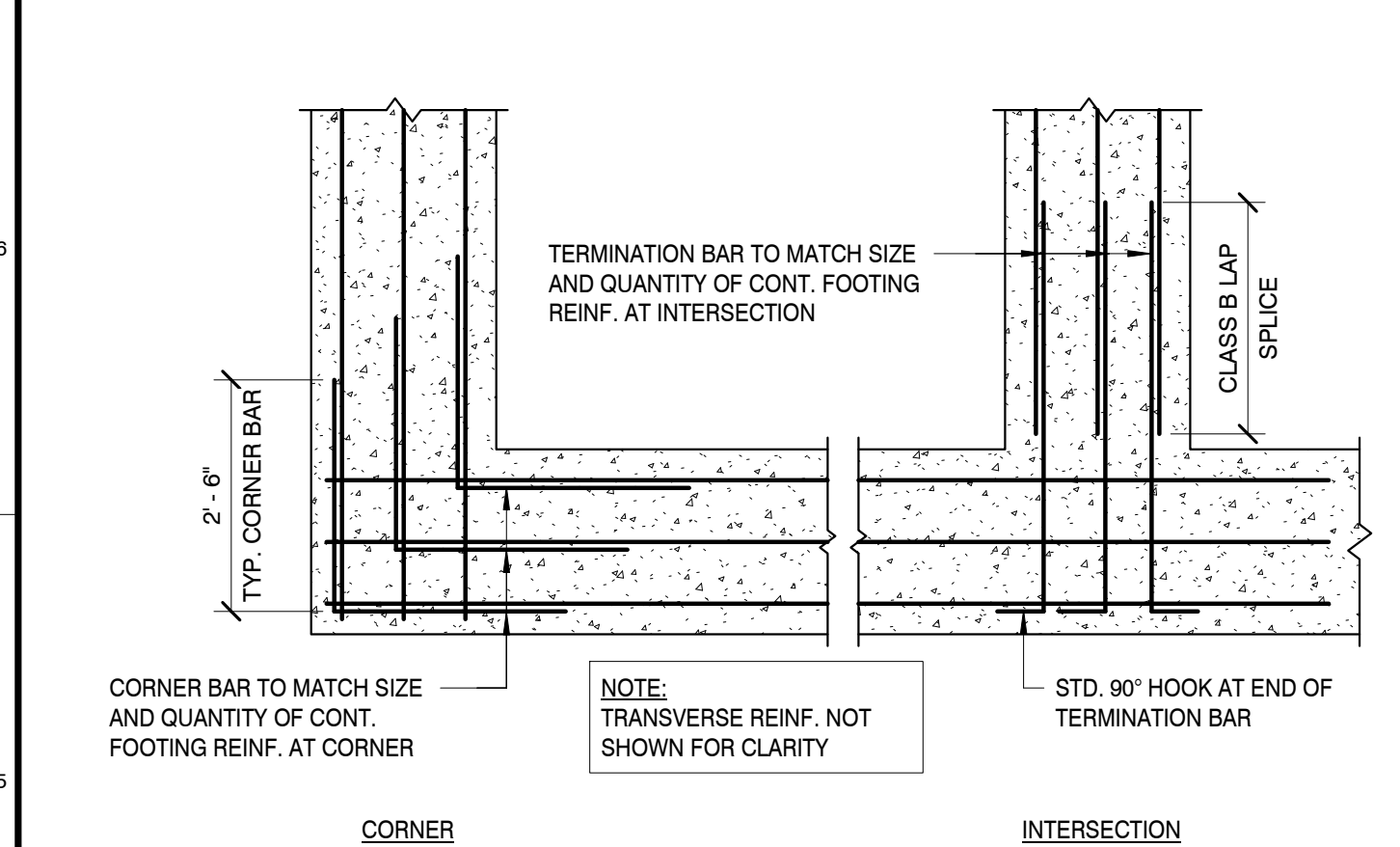
CONTRACTION JOINT DETAIL 2
SCALE: 1 1/2" = 1'-0"



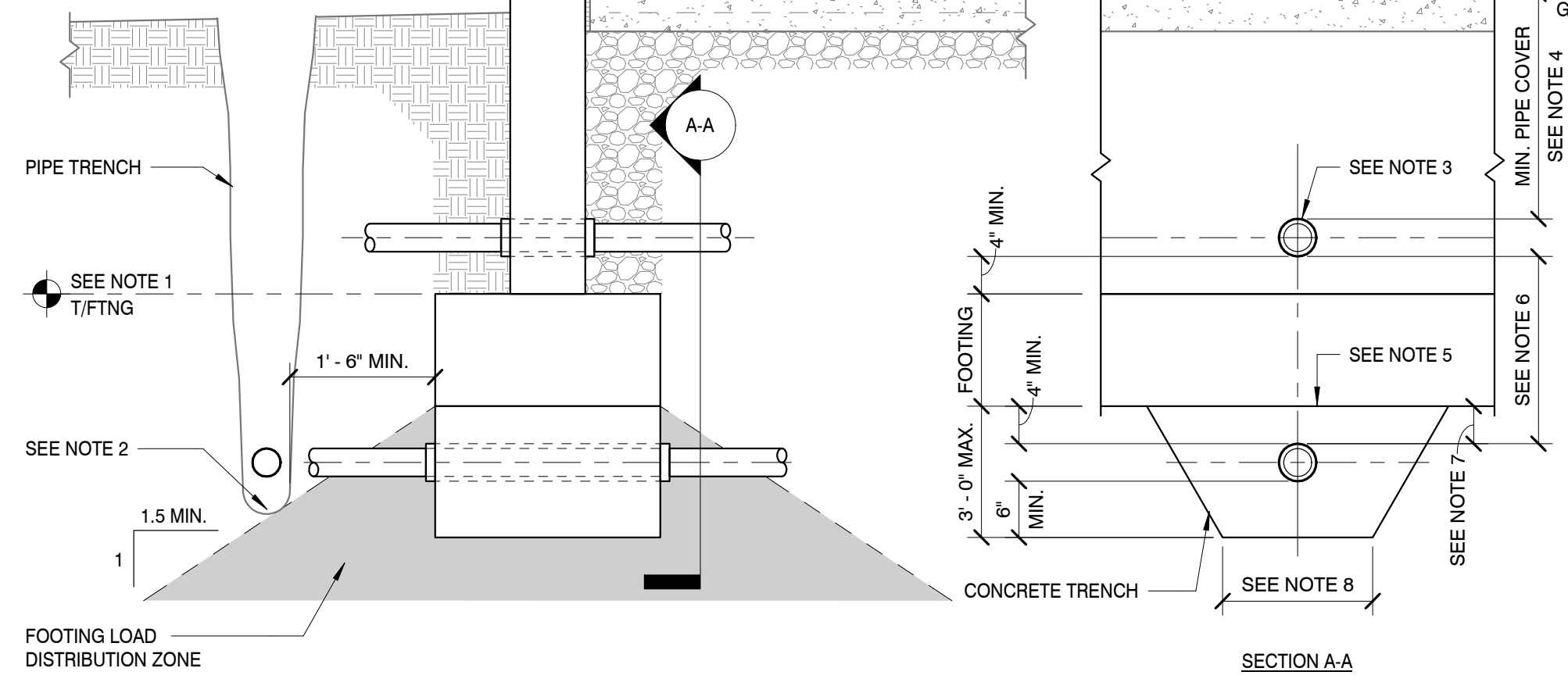
THICKENED SLAB DETAIL 3
SCALE: 3/4" = 1'-0"



INTERIOR EQUIP. PAD DETAIL 4
SCALE: 1 1/2" = 1'-0"

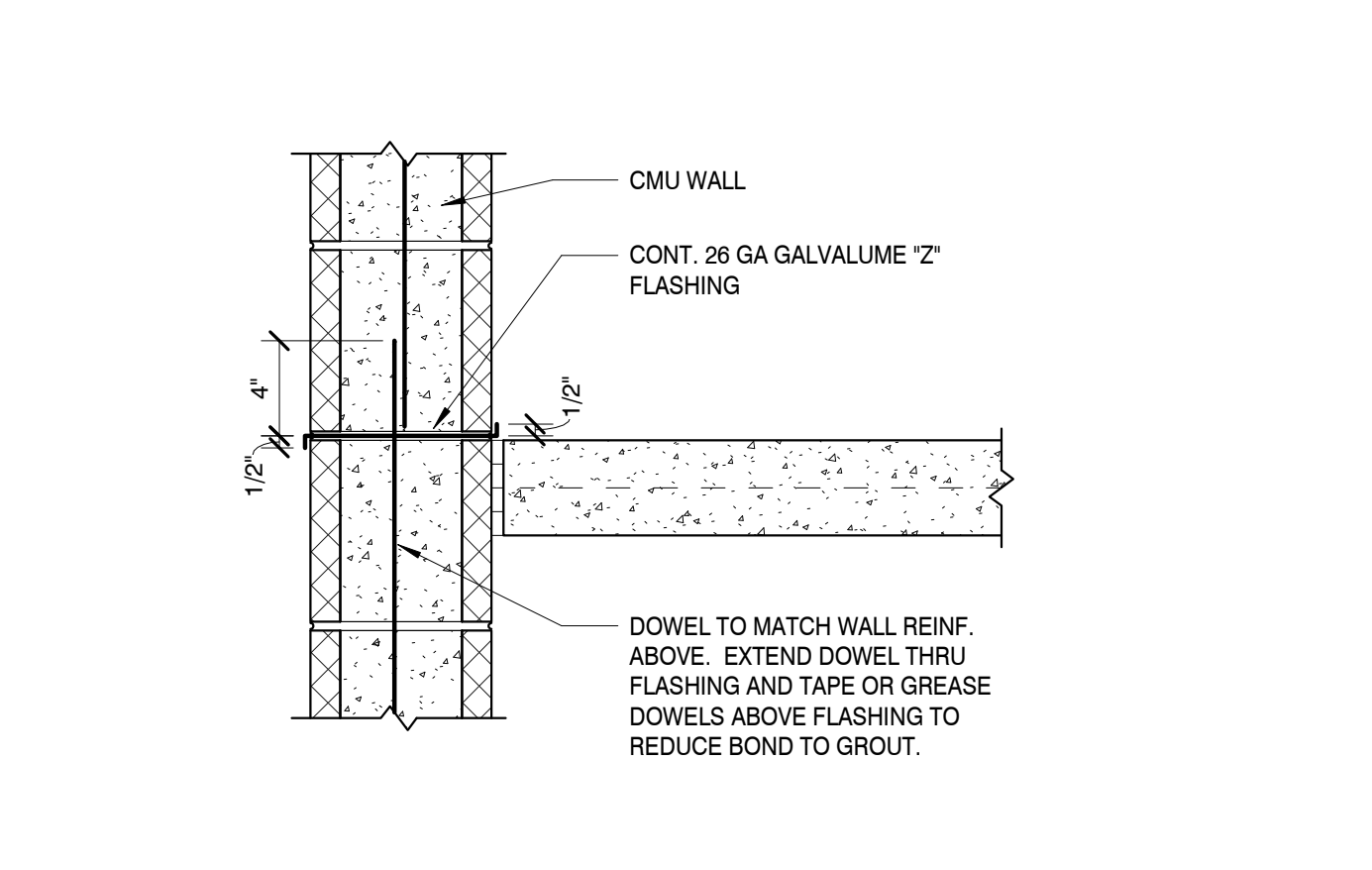


TYP. WALL FOOTING REINF. LAYOUT 5
SCALE: 1 1/2" = 1'-0"

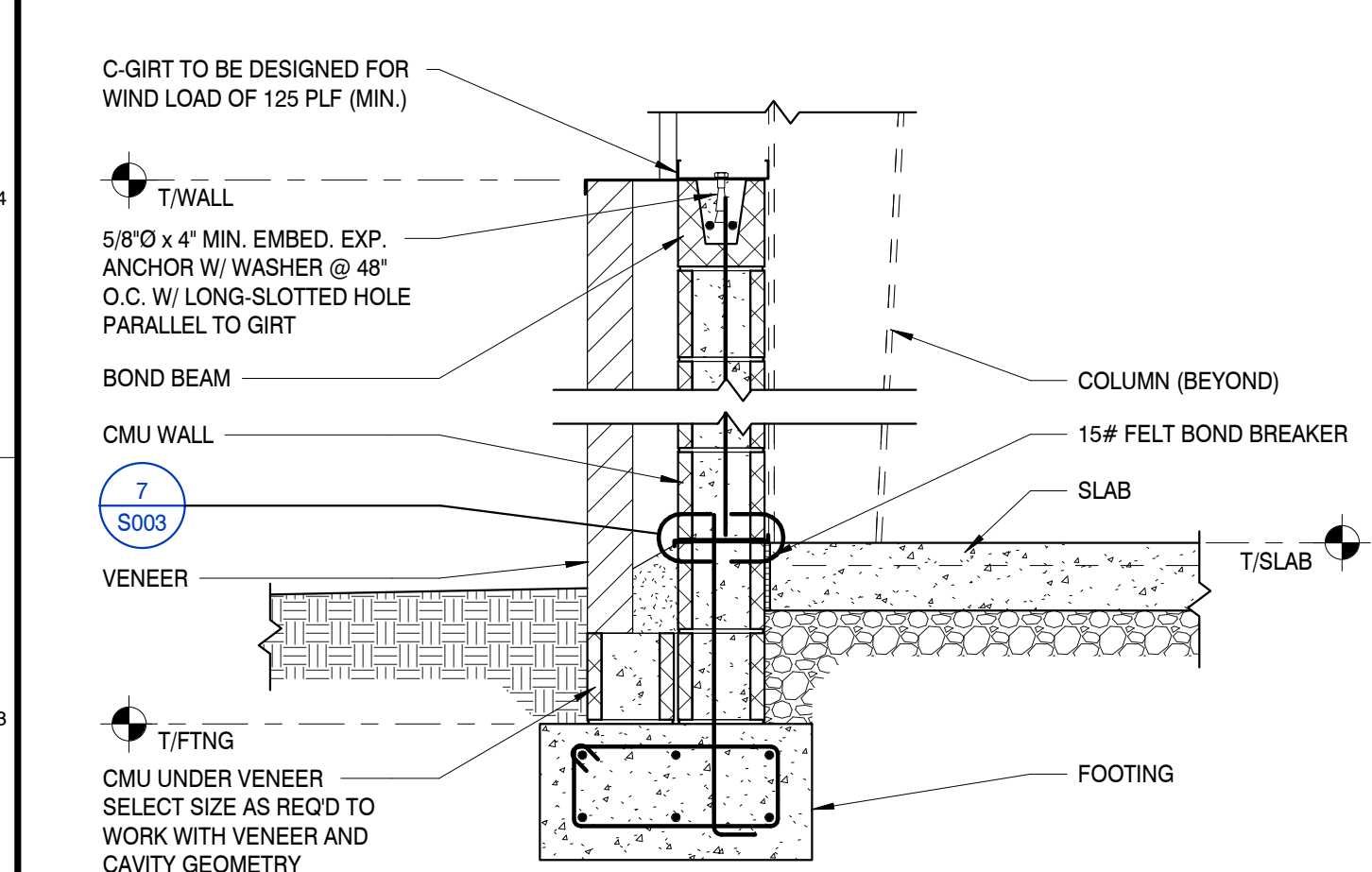


TYPICAL PIPE AND TRENCH LOCATIONS AT FOUNDATION 6
SCALE: 3/4" = 1'-0"

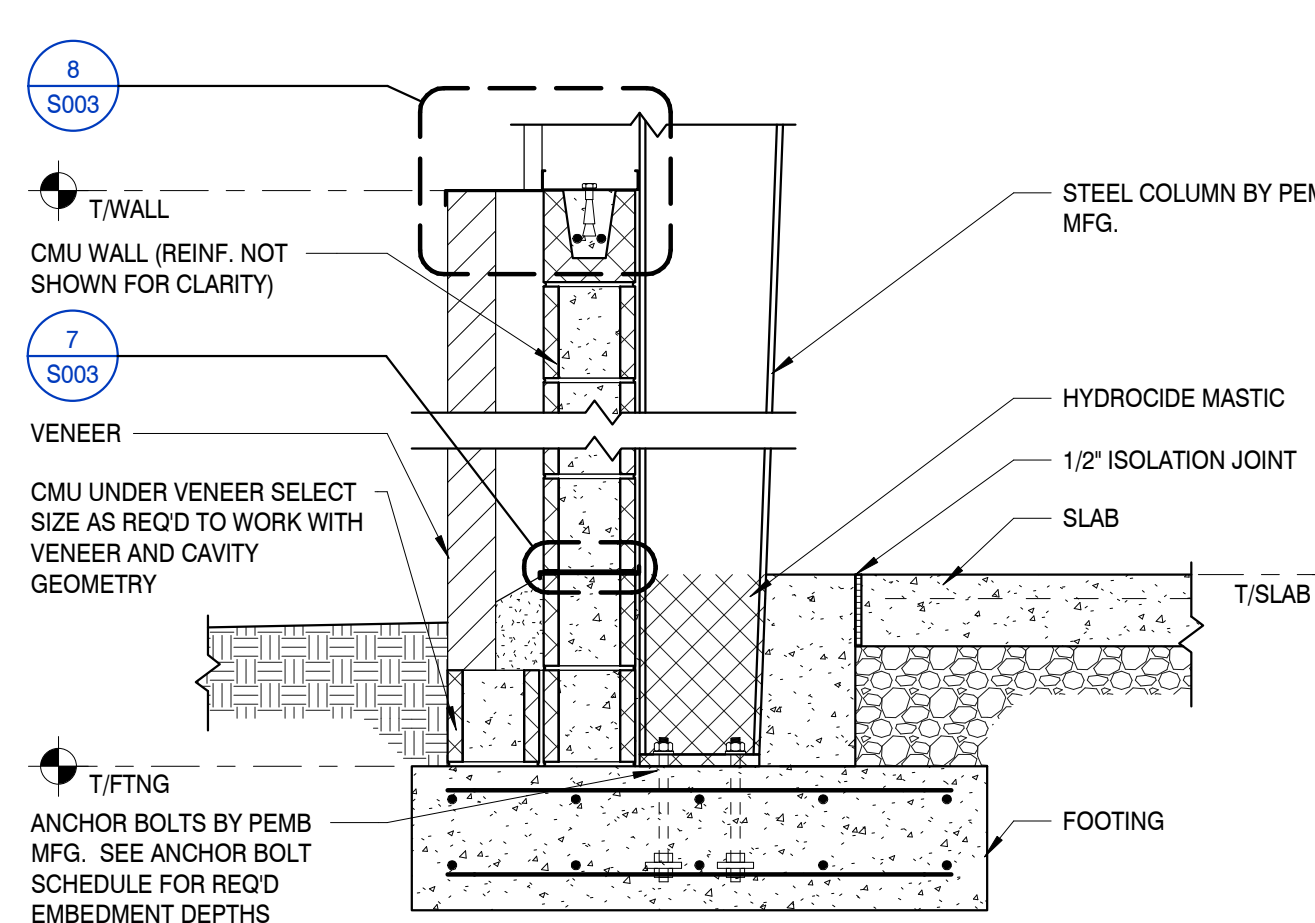
- NOTES:**
- STEP FOOTING AS REQUIRED TO ALLOW TRANSVERSE PIPES TO CROSS ABOVE OR BELOW FOOTING AS SHOWN.
 - FOR PIPES RUNNING PARALLEL TO FOOTING, FOOTING DEPTH AND PIPE LOCATION SHALL BE COORDINATED SO THAT THE PIPE TRENCH IS NOT LOCATED WITHIN THE FOOTING LOAD DISTRIBUTION ZONE THAT EXTENDS OUT FROM THE BOTTOM EDGE OF THE FOOTING.
 - PROVIDE PIPE SLEEVE AND COMPRESSIBLE FILLER MATERIAL AS REQUIRED TO ACCOMMODATE 1" SETTLEMENT UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT AT ALL PIPE PENETRATIONS.
 - TRANSVERSE PIPE PENETRATIONS MAY BE PLACED BETWEEN THE TOP OF FOOTING AND THE SLAB ON GRADE THROUGH THE STEM WALL PROVIDED MINIMUM PIPE COVER IS MAINTAINED.
 - TRENCH AND FOOTING MAY BE POURED MONOLITHICALLY AT THE CONTRACTOR'S OPTION.
 - TRANSVERSE PIPES SHALL NOT CROSS THROUGH FOOTING OR AREA 4" ABOVE AND BELOW FOOTING.
 - IF CROWN OF PIPE IS LOCATED GREATER THAN 4'-0" BELOW BOTTOM OF FOOTING, NO CONCRETE TRENCH IS REQUIRED.
 - TRENCH WIDTH SHALL BE EQUAL TO FOOTING WIDTH ABOVE.



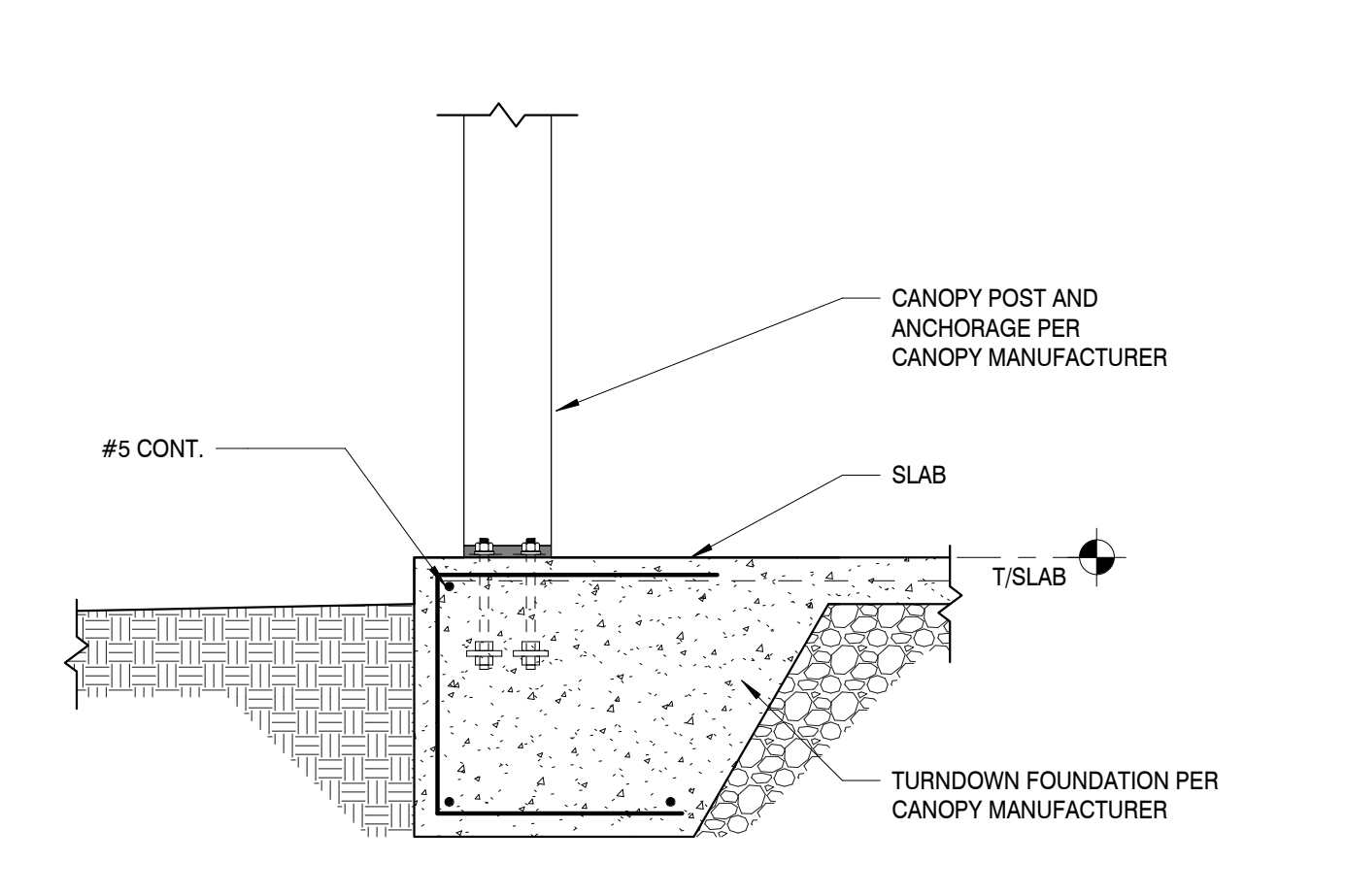
HORIZ. CONTROL JOINT DETAIL 7
SCALE: 1 1/2" = 1'-0"



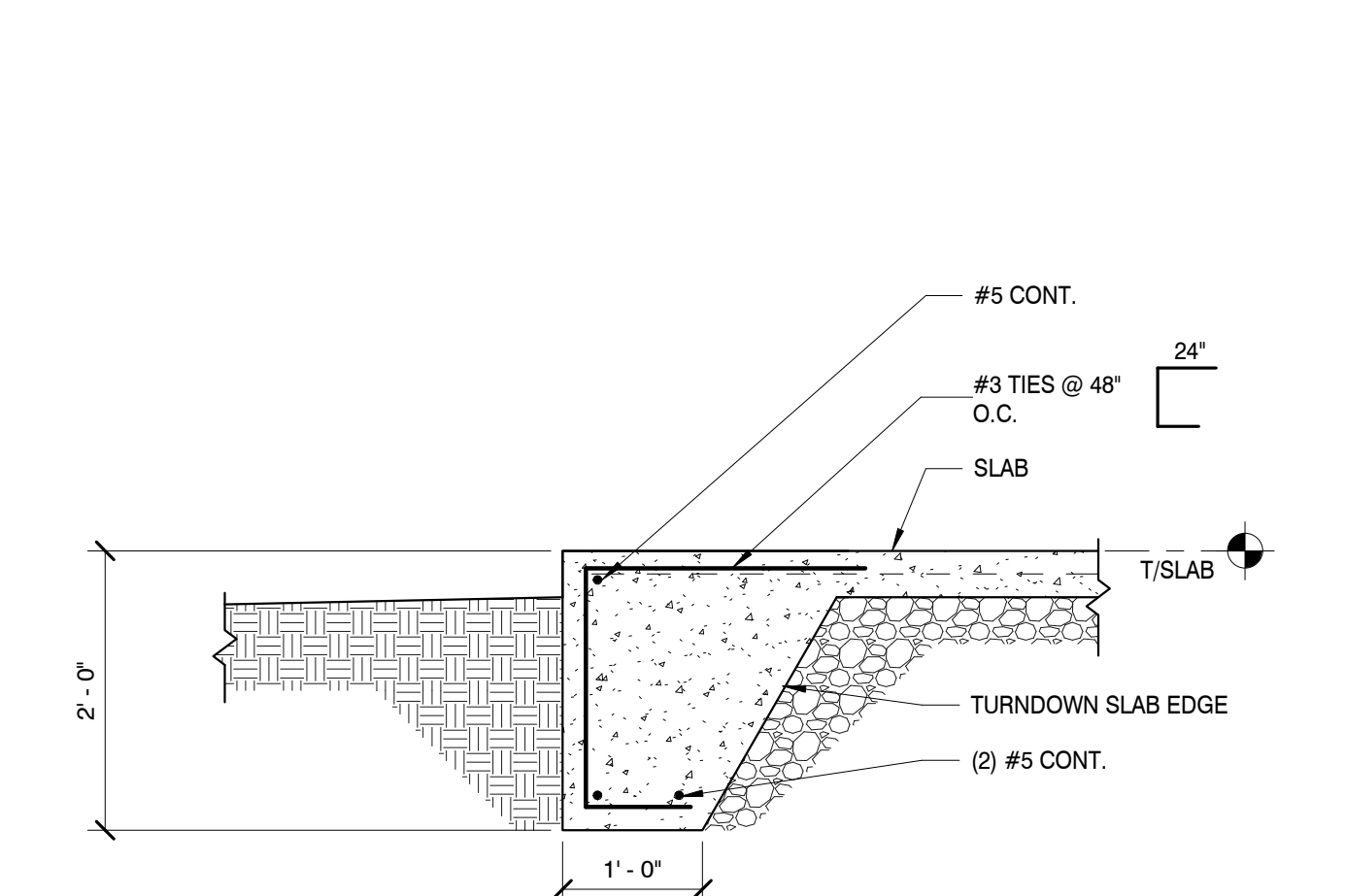
FOUNDATION DETAIL 8
SCALE: 3/4" = 1'-0"



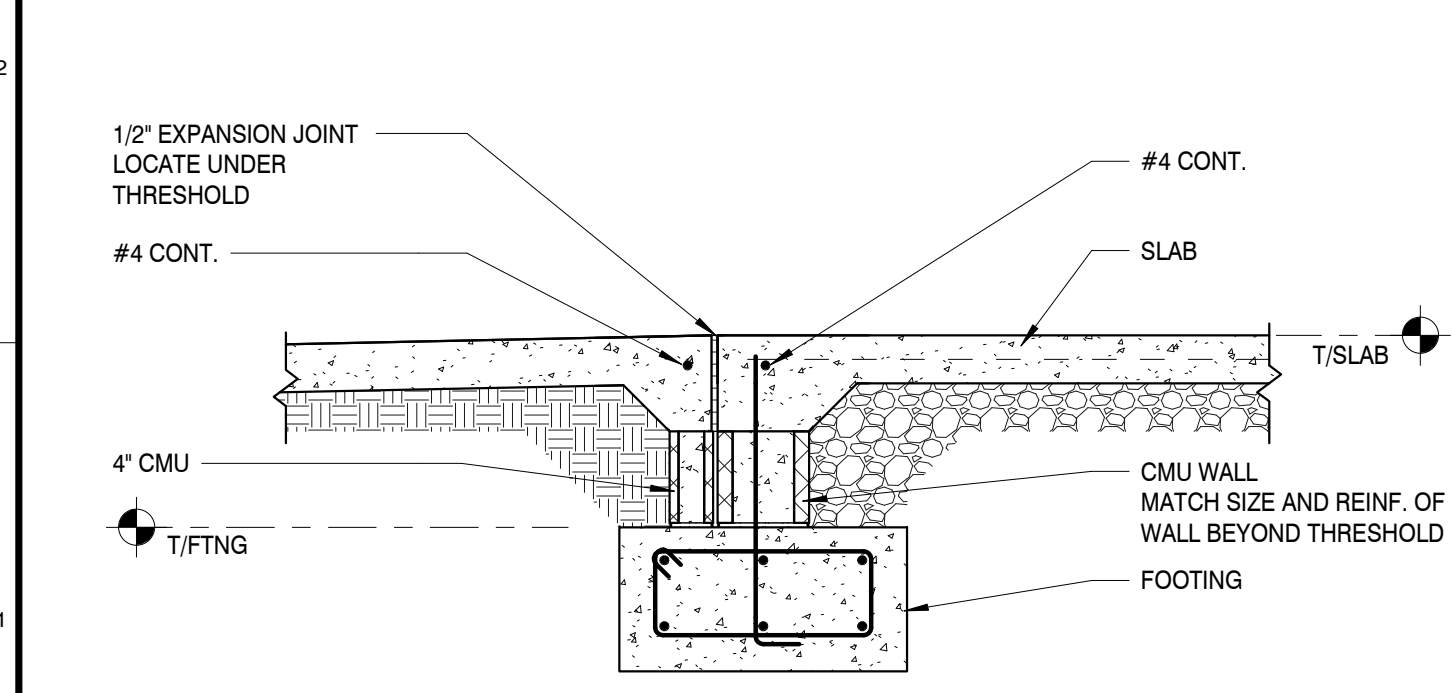
FOUNDATION DETAIL 9
SCALE: 3/4" = 1'-0"



TURNDOWN SLAB DETAIL 10
SCALE: 3/4" = 1'-0"



TURNDOWN SLAB DETAIL 11
SCALE: 3/4" = 1'-0"



THRESHOLD DETAIL 12
SCALE: 3/4" = 1'-0"

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PROJECT INFORMATION
PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: 220042-02
ACTIVE DESIGN PHASE
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REVISION INFORMATION

NO.	DATE	DESCRIPTION

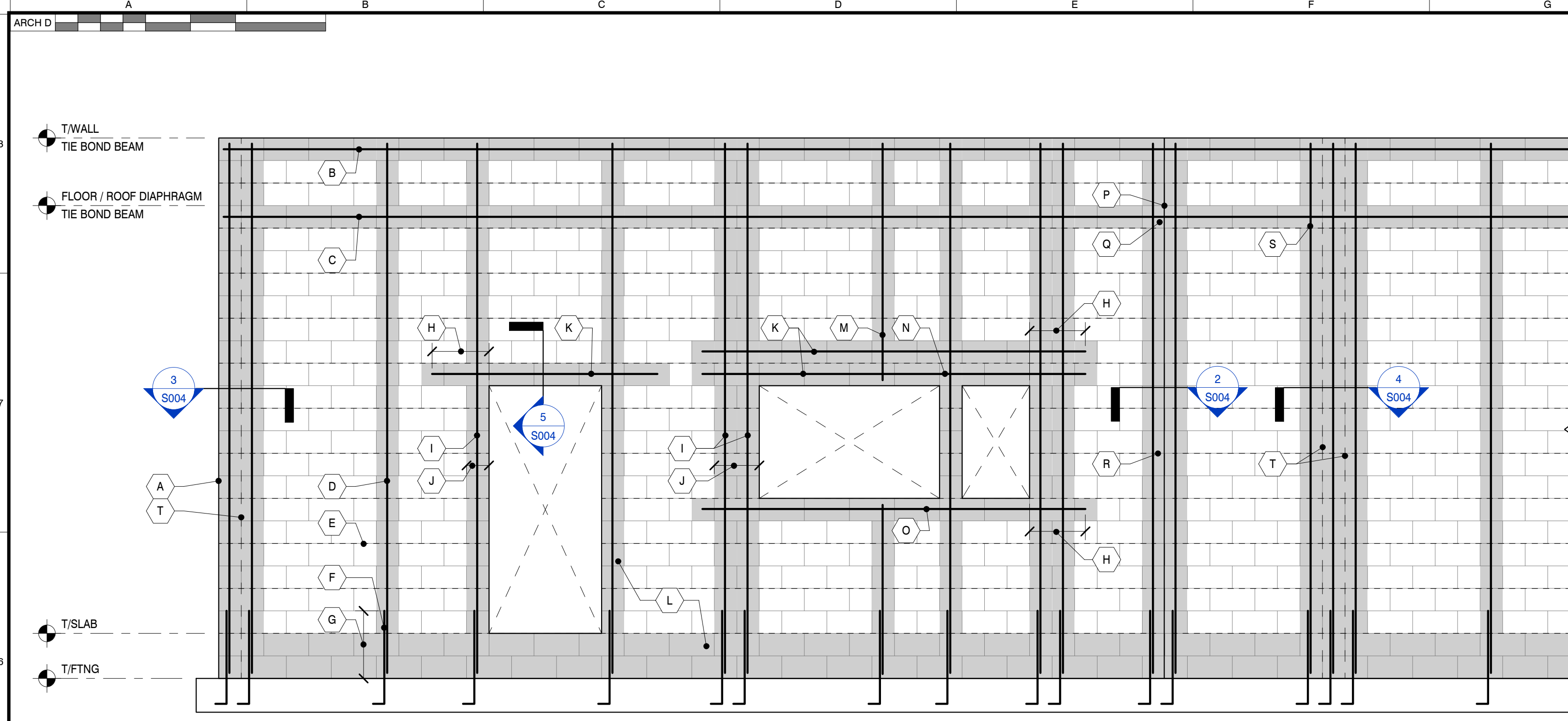
KEY PLAN

SHEET INFORMATION
SHEET ISSUED: 10/06/2023
DESIGNED BY: ZSP
DRAWN BY: TLT
REVIEWED BY: WND
SHEET TITLE:

TYPICAL FOUNDATION AND SLAB ON GRADE DETAILS
SHEET NO.: **S003**

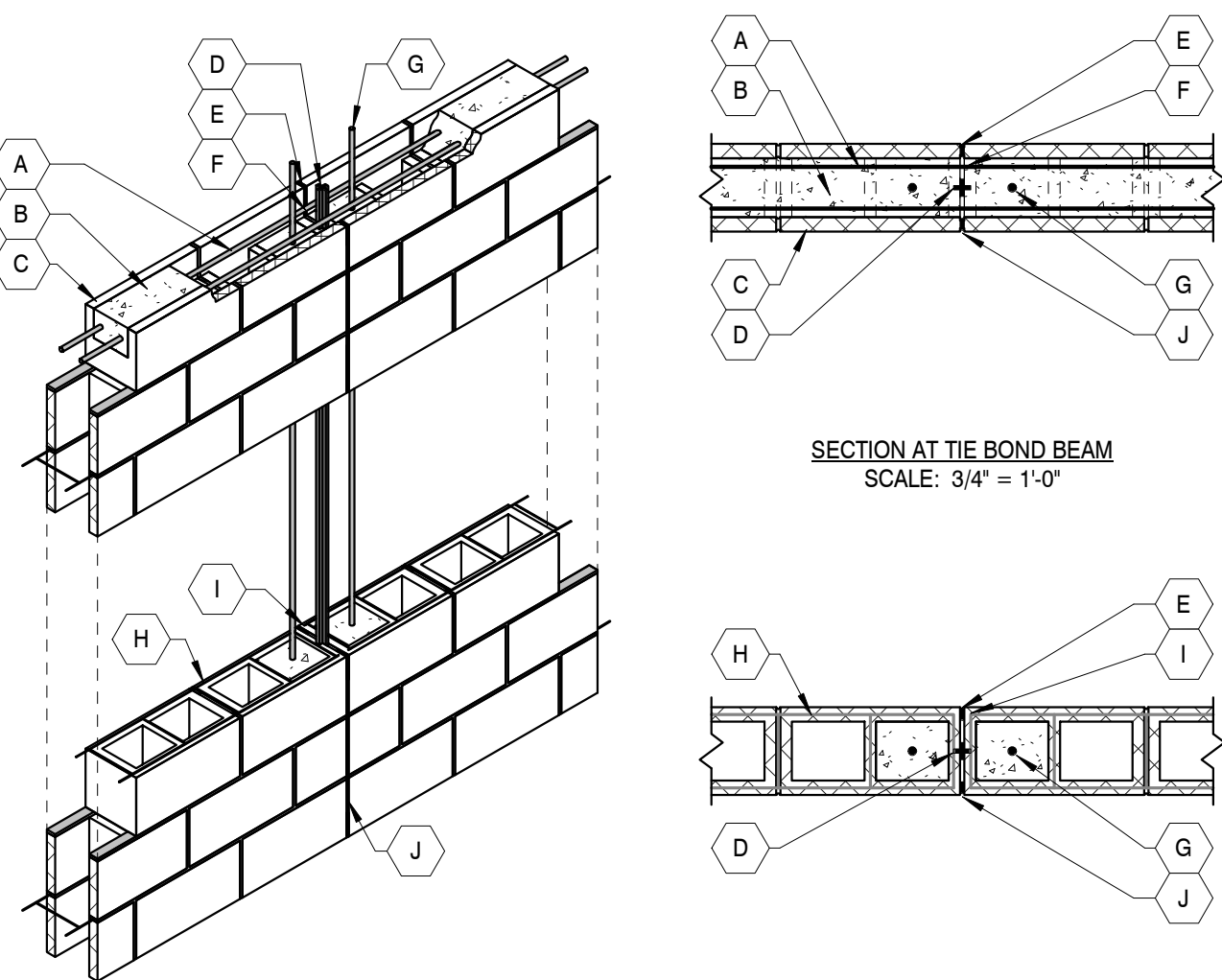
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PROJECT # 2023-10-31-01 FIELD SET TFM # 00017-D



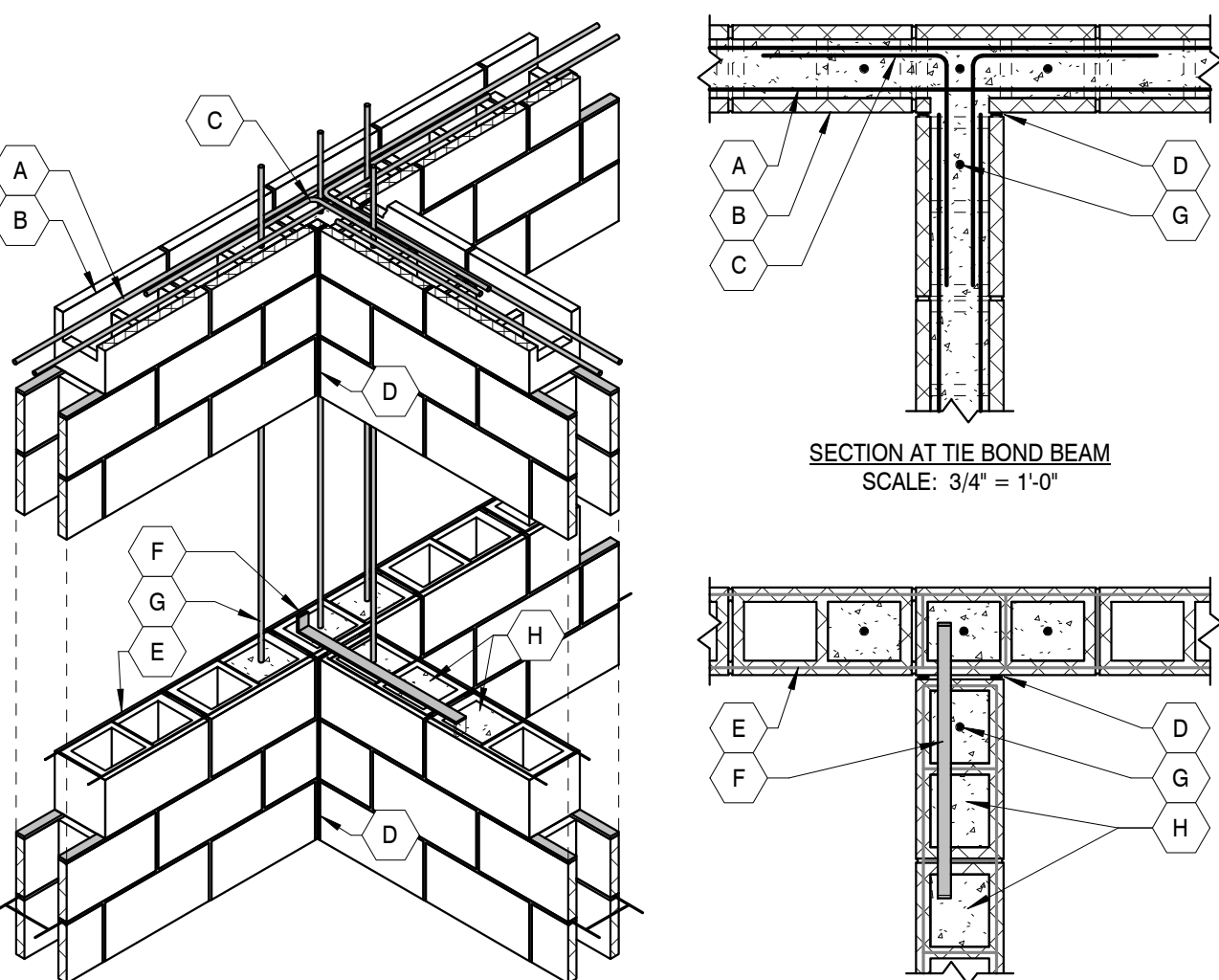
CMU WALL ELEVATION GUIDE (W/ HORIZONTAL JOINT REINFORCING)

SCALE: 3/8" = 1'-0"



CMU CONTRACTION JOINT DETAIL

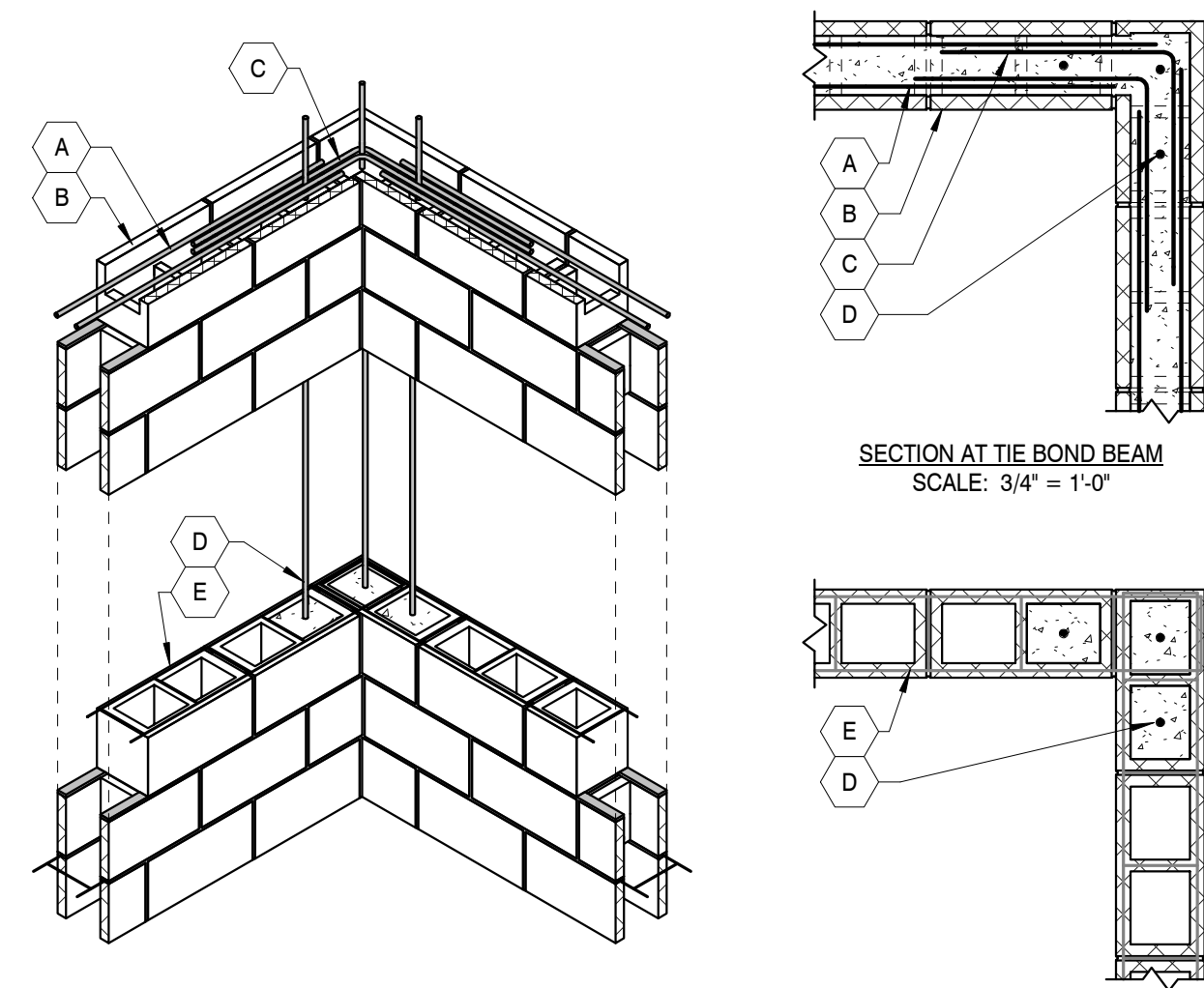
SCALE: 1/2" = 1'-0"



CMU WALL INTERSECTION DETAIL

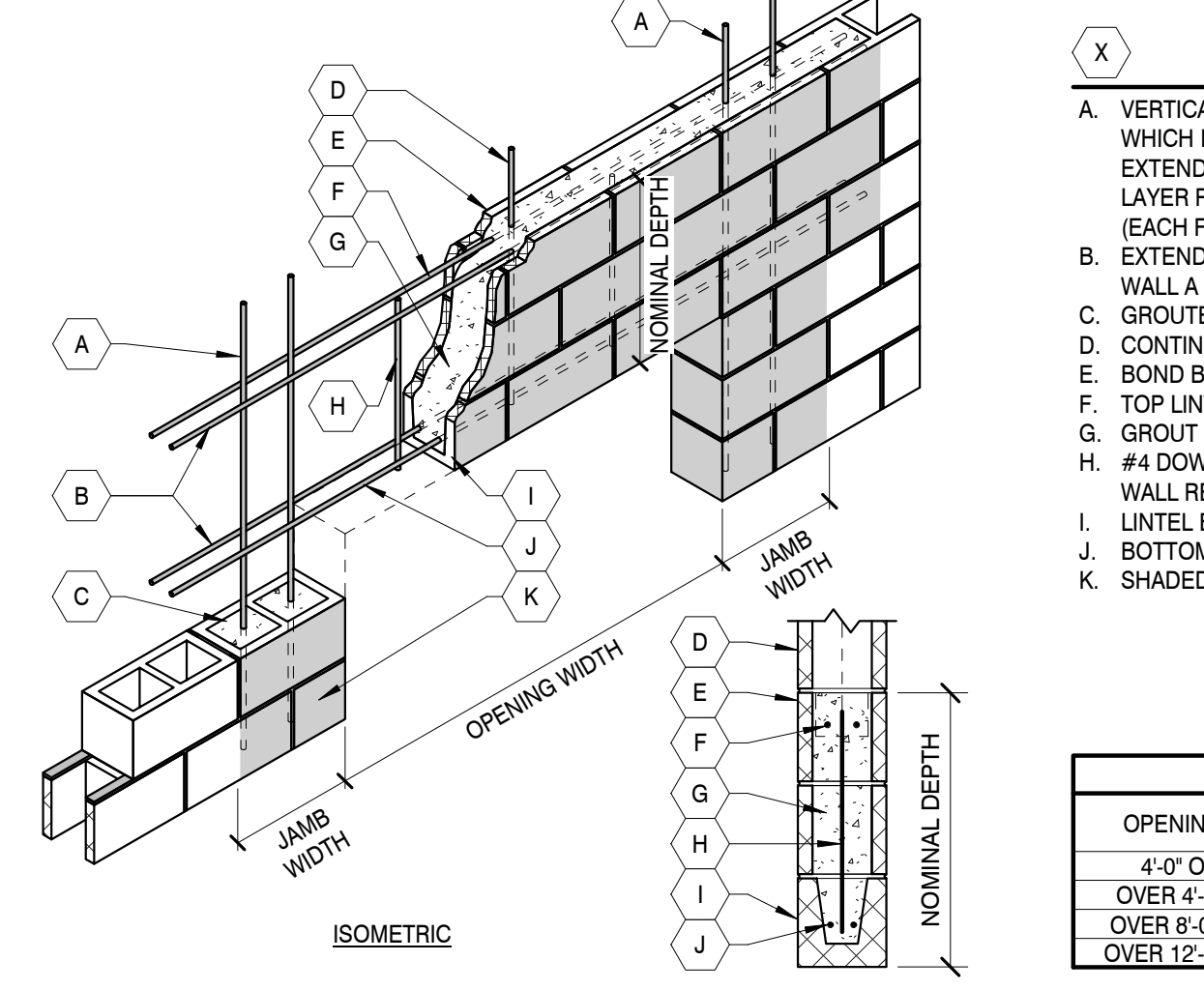
SCALE: 1/2" = 1'-0"

- KEYED NOTES**
- A. TIE BEAM REINFORCING
 - B. GROUT
 - C. BOND BEAM UNIT
 - D. PREFORMED GASKET IN SASH UNIT
 - E. BACKER ROD AND SEALANT
 - F. TIE BEAM REINFORCING CONTINUOUS ACROSS JOINT
 - G. VERTICAL BAR REINFORCING (MATCH SIZE AND QUANTITY OF VERTICAL WALL REINFORCING) AT (1) CELL EACH SIDE OF JOINT
 - H. HORIZONTAL JOINT REINFORCING
 - I. TERMINATE HORIZONTAL JOINT REINFORCING EACH SIDE OF JOINT
 - J. HEAD JOINTS TO ALIGN FULL HEIGHT OF JOINT AND SHALL BE FREE OF MORTAR AND GROUT



CMU WALL CORNER DETAIL

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



CMU LINTEL DETAIL

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

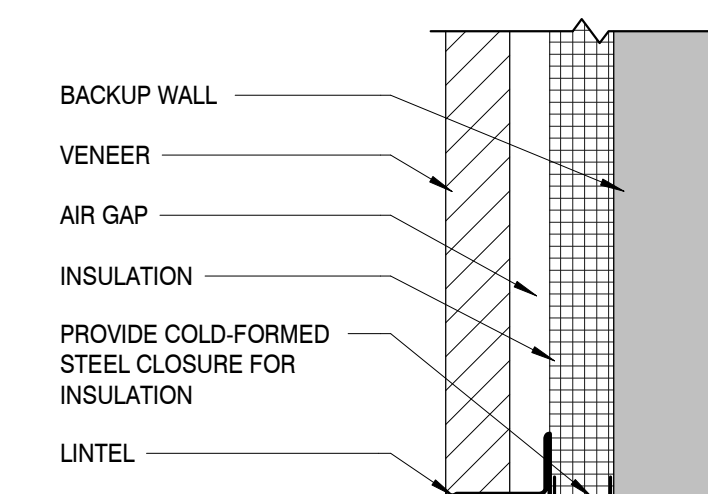
- GENERAL NOTES**
1. THIS DETAIL IS FOR REFERENCE ONLY TO IDENTIFY THE COMPONENTS OF MASONRY WALL CONSTRUCTION. FOR SPECIFIC REQUIREMENTS OF WALL CONSTRUCTION, REFER TO NOTES, PLANS AND DETAILS.

- KEYED NOTES**
- A. WALL CORNER
 - B. TIE BEAM AT TOP OF WALL
 - C. TIE BEAM AT FLOOR / ROOF DIAPHRAGM
 - D. VERTICAL BAR REINFORCING
 - E. HORIZONTAL JOINT REINFORCING
 - F. FOUNDATION DOWELS
 - G. REINFORCING SPLICE LENGTH OF 64 BAR DIAMETERS BUT NOT LESS THAN 12"
 - H. EXTEND REINFORCING BEYOND EDGE OF OPENING FOR DEVELOPMENT INTO WALL A DISTANCE OF 40 BAR DIAMETERS BUT NOT LESS THAN 24"
 - I. JAMB REINFORCING EACH SIDE OF OPENING
 - J. JAMB WIDTH
 - K. LINTEL REINFORCING
 - L. SOLID GROUTED CELLS
 - M. CONTINUATION OF INTERRUPTED VERTICAL WALL REINFORCING ABOVE OPENINGS
 - N. WHEN PIER BETWEEN SERIES OF OPENINGS IS LESS THAN 1'-4" WIDE, CONSIDER OVERALL WIDTH OF SERIES TO DETERMINE LINTEL SIZE
 - O. 8" HIGH BOND BEAM AT BOTTOM OF ALL OPENINGS
 - P. CONTRACTION JOINT (CJ)
 - Q. TIE BEAM REINFORCING TO BE CONTINUOUS ACROSS CONTRACTION JOINT AT TOP OF WALL AND FLOOR / ROOF DIAPHRAGM
 - R. HORIZONTAL JOINT REINFORCING TO BE DISCONTINUOUS ACROSS CONTRACTION JOINT
 - S. KNOCK OUT BOND BEAM UNITS REQUIRED AT VERTICAL REINFORCING
 - T. WALL BEYOND

- KEYED NOTES**
- A. TIE BEAM REINFORCING (GROUT NOT SHOWN IN ISOMETRIC FOR CLARITY)
 - B. BOND BEAM UNIT
 - C. CORNER BAR (MATCH SIZE AND QUANTITY OF HORIZONTAL BAR REINFORCING), LAP WITH HORIZONTAL BAR REINFORCING
 - D. VERTICAL BAR REINFORCING (MATCH SIZE AND QUANTITY OF VERTICAL WALL REINFORCING) AT (8) CELLS AT CORNER
 - E. HORIZONTAL JOINT REINFORCING

- KEYED NOTES**
- A. VERTICAL JAMB BAR REINFORCING TO MATCH SIZE OF WALL REINFORCING IN WHICH IT IS CONTAINED UNLESS NOTED OTHERWISE. REINFORCING TO EXTEND FULL HEIGHT OF WALL. PLACE ONE (1) BAR EACH CELL FOR SINGLE LAYER REINFORCED WALLS AND TWO (2) BARS EACH CELL FOR DUAL LAYER (EACH FACE) REINFORCED WALLS.
 - B. EXTEND REINFORCING BEYOND EDGE OF OPENING FOR DEVELOPMENT INTO WALL A DISTANCE OF 40 BAR DIAMETERS BUT NOT LESS THAN 24"
 - C. GROUTED CELL AT VERTICAL JAMB BAR REINFORCING
 - D. CONTINUATION OF INTERRUPTED VERTICAL WALL REINFORCING ABOVE OPENING
 - E. BOND BEAM BLOCK AT TOP OF LINTEL
 - F. TOP LINTEL REINFORCING
 - G. GROUT FULL DEPTH OF LINTEL ACROSS OPENING
 - H. #4 DOWEL @ 16" O.C. MAX. NOT REQUIRED WHEN COINCIDES WITH VERTICAL WALL REINFORCING
 - I. LINTEL BLOCK AT BOTTOM OF LINTEL
 - J. BOTTOM LINTEL REINFORCING
 - K. SHADED AREA DENOTES EXTENT OF GROUTED CELLS FOR LINTEL AND JAMBS

OPENING WIDTH	NOMINAL DEPTH	REINFORCING	NO. JAMB BARS	JAMB WIDTH
4'-0" OR LESS	8"	(2) #4 BOT.	(1)	8"
OVER 4'-0" TO 8'-0"	1'-4"	(2) #5 T&B	(2)	1'-4"
OVER 8'-0" TO 12'-0"	2'-0"	(2) #6 T&B	(3)	2'-0"
OVER 12'-0" TO 16'-0"	2'-8"	(2) #6 T&B	(4)	2'-8"



BRICK LINTEL DETAIL

SCALE: 1" = 1'-0"

LOOSE LAID LINTEL SCHEDULE	LINTEL SIZE
4'-0" OR LESS	L6x3-1/2x6x7/8
OVER 4'-0" TO 8'-0"	L6x3-1/2x8x1
OVER 8'-0" TO 12'-0"	L6x3-1/2x10x1-1/8
OVER 12'-0" TO 14'-0"	L6x3-1/2x12x1-1/4

- NOTES:**
1. PROVIDE 8" (MIN.) BEARING EACH END OF LINTEL.
 2. ALL LINTELS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 TO PROTECT FROM CORROSION.
 3. HORIZONTAL LEG SIZE ABOVE COINCIDES WITH A 4" NOMINAL WIDTH VENEER AND A 2" MIN. AIR GAP. INCREASE HORIZONTAL LEG SIZE AS REQUIRED TO MATCH VENEER OVERHANG PAST LINTEL EDGE.

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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 CONSTRUCTION BIDDING
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REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

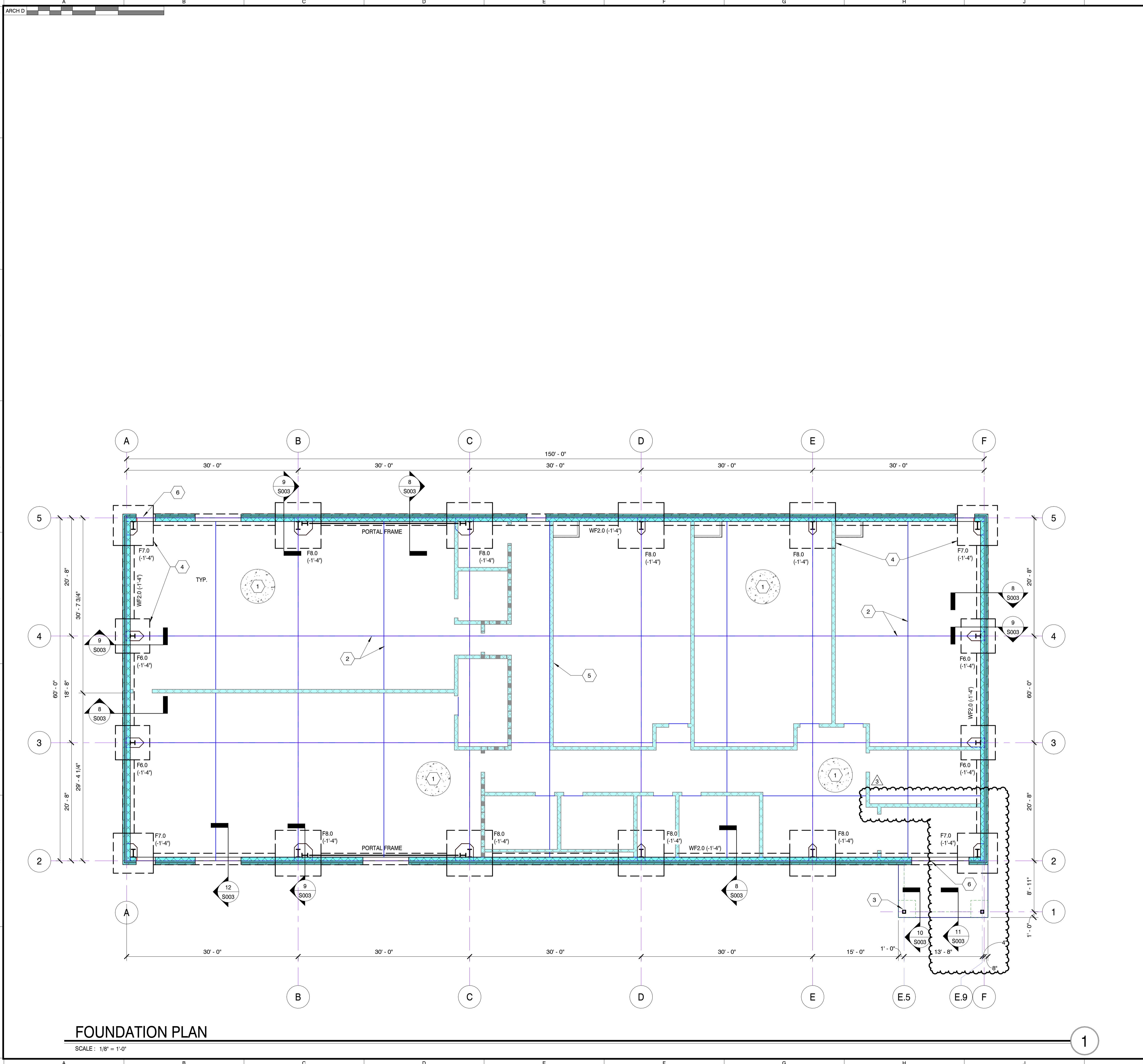
SHEET ISSUED: 10/06/2023
 DESIGNED BY: ZSP
 DRAWN BY: TLT
 REVIEWED BY: WND
 SHEET TITLE:

TYPICAL CMU DETAILS W/ HORIZONTAL JOINT REINFORCING

SHEET NO.: S004

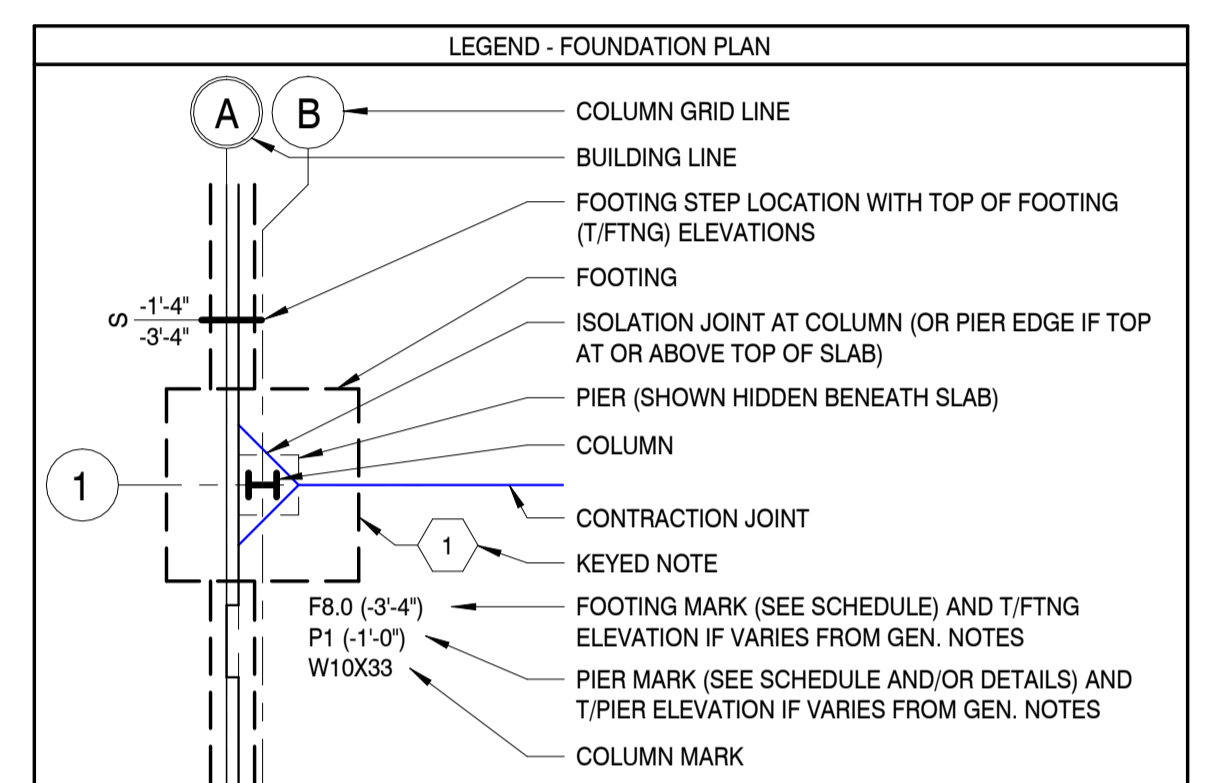
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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D



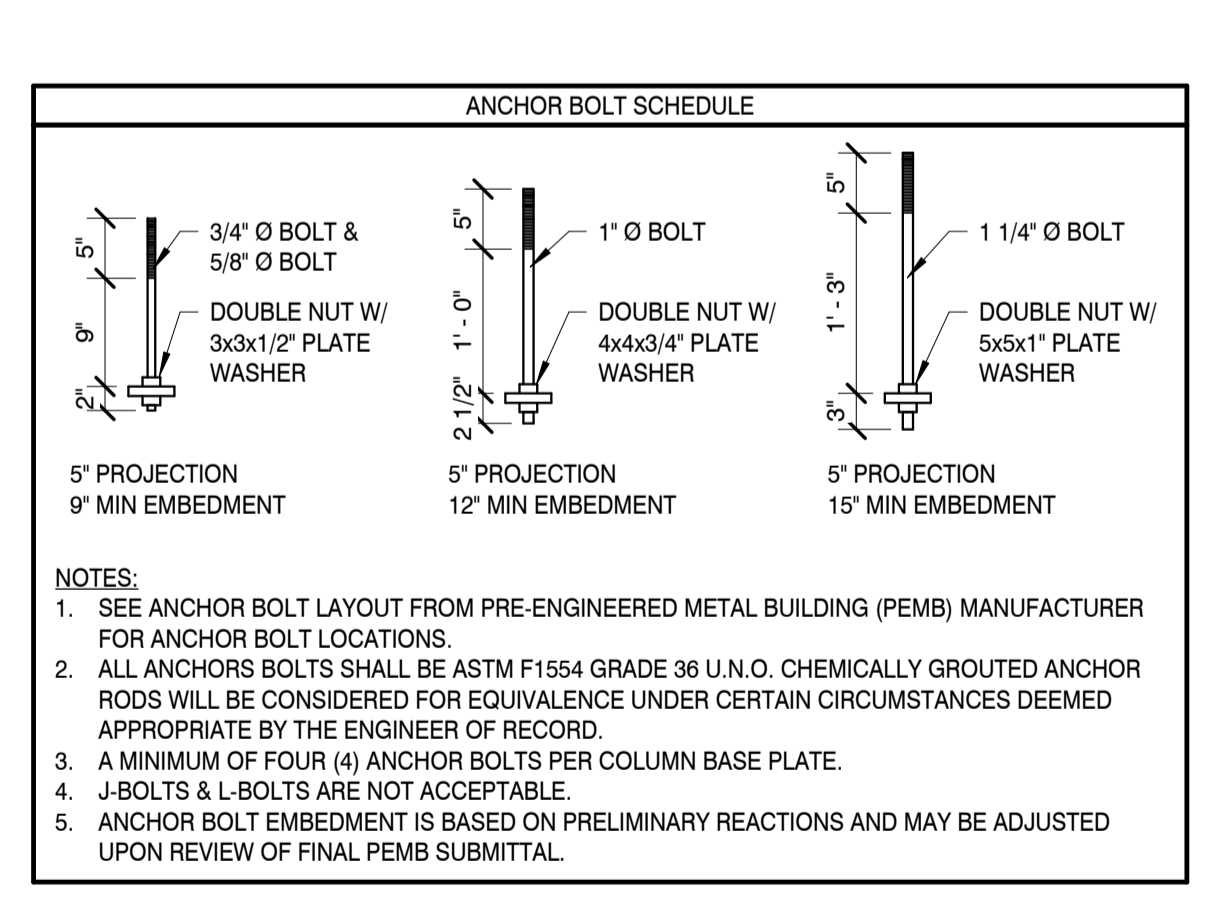
- GENERAL NOTES - FOUNDATION PLAN**
- ELEVATIONS ARE REFERENCED FROM THE FIRST LEVEL TOP OF SLAB (T/SLAB) DATUM ELEVATION OF 0'-0". SEE CIVIL DRAWINGS FOR EQUIVALENT MEAN SEA LEVEL ELEVATION.
 - CONTRACTOR TO COORDINATE LOCATION AND SIZE OF FOOTING STEPS AND SHOULD ADJUST AS REQUIRED TO MAINTAIN 1'-0" MINIMUM COVER OVER TOP OF FOOTING AND MEET LOCAL FROST DEPTH CRITERIA. COORDINATE WITH SITE GRADING PLAN. SEE FOUNDATION NOTES ON S0.0 FOR MORE INFORMATION.
 - TOP OF FOOTING (T/FTNG) ELEVATIONS ARE -1'-4" UNLESS NOTED OTHERWISE. ELEVATIONS ARE REFERENCED FROM THE DATUM LISTED IN NOTE #1.
 - COORDINATE FOUNDATION LAYOUT WITH PLUMBING AND OTHER UNDERGROUND UTILITIES. STEP AND/OR LOWER FOUNDATIONS AS NECESSARY TO PREVENT CONFLICTS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF DEWATERING AREAS EXCAVATED FOR BUILDING CONSTRUCTION.
 - SEE S00 SHEETS FOR ADDITIONAL NOTES AND TYPICAL DETAILS NOT SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS.

- KEYED NOTES - FOUNDATION PLAN**
- FLOOR SLAB TO BE 4" THICK SLAB ON GRADE WITH 6x6-W1.4xWT.4 WWF ON 20 MIL POLY VAPOR BARRIER OVER 4" CRUSHED STONE.
 - DENOTES SLAB CONTRACTION JOINT. SEE S000 SHEETS FOR ADDITIONAL INFORMATION.
 - CANOPY COLUMNS AND FOUNDATION PER CANOPY MANUFACTURER
 - PEMB FOUNDATION SIZES ARE PRELIMINARY AND MAY BE ADJUSTED BASED ON FINAL REACTIONS PROVIDED BY PEMB MANUFACTURER. FOUNDATION INSTALLATION ON HOLD UNTIL PEMB DRAWINGS ARE REVIEWED AND APPROVED.
 - NON-STRUCTURAL MASONRY WALLS (DEPICTED AS HALF-TONE OR NOT SHOWN) SHALL BEAR ON A THICKENED SLAB (SEE DETAIL 4/S003) UNLESS NOTED OTHERWISE. AT CONTRACTORS OPTION, A WALL FOOTING (TYPE WF2.0) MAY BE SUBSTITUTED FOR THICKENED SLAB.
 - SEE S004 FOR DOOR AND WINDOW LINTEL SCHEDULE.



FOUNDATION SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
F8.0	6'-0"	6'-0"	1'-4"	(7) #5 E.W. T.&B	
F7.0	7'-0"	7'-0"	1'-6"	(7) #6 E.W. T.&B	
F8.0	8'-0"	8'-0"	1'-8"	(9) #6 E.W. T.&B	
WF2.0	2'-0"	1'-0"		(3) #5 CONT. T.&B W/ #3 TIES @ 48" O.C. TRANS	CONT. WALL FOUNDATION



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PROJECT NO.: 220042-02

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REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
3	05.20.2024	REVISION #03

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: ZSP
DRAWN BY: TLT
REVIEWED BY: WND
SHEET TITLE:

FOUNDATION PLAN

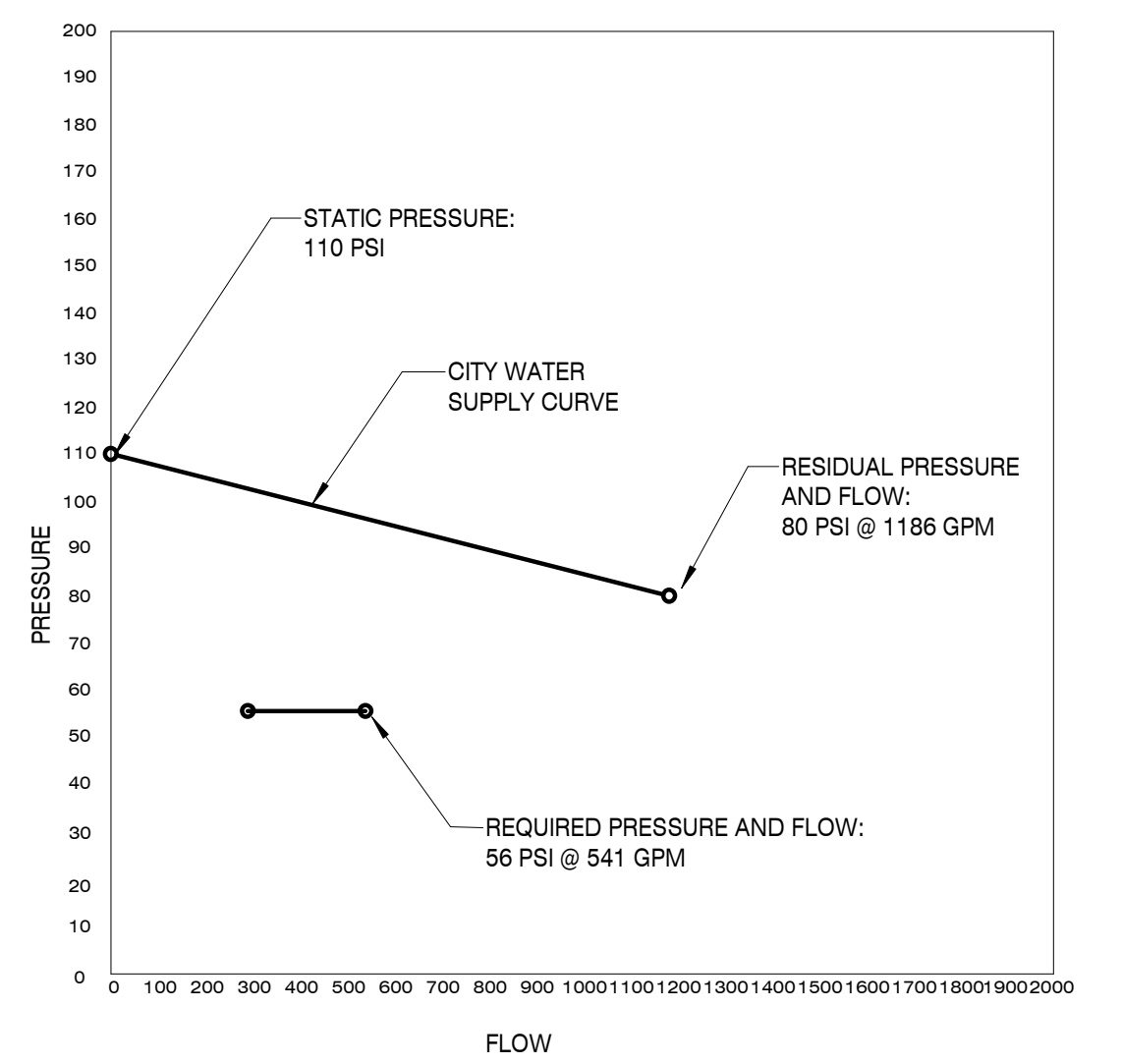
SHEET NO.: **S101**

Autodesk/Drawings/220042-02_Clinton High School Welding Building/220042-02_P02.01.dwg 5/20/2024 3:17:30 PM

FIRE PROTECTION SPECIFICATIONS

SECTION 15300 - FIRE PROTECTION
PART I GENERAL
1.01 DESCRIPTION OF WORK:
A. EXTENT OF FIRE PROTECTION WORK IS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS SECTION.
B. THE SYSTEM SHALL BE WET PIPE SYSTEM
1.02 QUALITY ASSURANCE:
A. CODES AND STANDARDS:
1. NFPA COMPLIANCE: INSTALL FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 "STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS"

2.09 AUTOMATIC SPRINKLERS:
A. GENERAL: PROVIDE AUTOMATIC SPRINKLERS OF TYPE INDICATED ON DRAWINGS, AND IN ACCORDANCE WITH THE FOLLOWING LISTING. PROVIDE FUSIBLE LINKS FOR 165°F (74°C) AND SPRINKLERS WITH NOMINAL 1/2" DISCHARGE ORIFICE UNLESS OTHERWISE INDICATED.
1. UPRIGHT
2. PENDENT
3. FLUSH PENDENT
4. CONCEALED PENDENT
5. HORIZONTAL SIDEWALL
6. FINISH: CHROME PLATE FOR OCCUPIED AREAS, CAST BRASS FOR UNOCCUPIED AREAS, WAX COATED WHERE EXPOSED TO ACIDS, CHEMICALS, OR OTHER CORROSIVE FLUIDS.
B. APPROVED SPRINKLER HEAD MANUFACTURERS: RELIABLE, VICTAULIC, VIKING, TYCO
C. SPRINKLER CABINET AND WRENCH: FURNISH STEEL, BAKED RED ENAMELED, SPRINKLER BOX WITH CAPACITY TO STORE 12 SPRINKLERS AND WRENCH SIZED TO SPRINKLERS.
D. IN AREAS SUBJECT TO PHYSICAL ABUSE SUCH AS GYMNASIUMS AND MECHANICAL ROOMS, PROVIDE STEEL WIRE GUARDS OVER SPRINKLERS.
E. IN VARIOUS APPLICATIONS, UL LISTED AND FM APPROVED VICTAULIC V9 INSTALLATION READY COUPLING MAY BE USED TO JOIN 1/2" 3/4", OR 1" SPRINKLER HEADS ONTO THE 1" IGS OUTLET, OR APPROVED EQUAL.
2.10 WALL TYPE SIAMESE CONNECTIONS:
A. GENERAL: PROVIDE WALL TYPE CAST BRASS SIAMESE CONNECTIONS AND ESCUTCHEON PLATE ASSEMBLY, WITH 2, 2-1/2" FIRE DEPARTMENT INLETS WITH FEMALE HOSE CONNECTIONS, AMERICAN NATIONAL FIRE HOSE CONNECTION SCREW THREAD, EQUIPPED WITH INDIVIDUAL DROP CLAPPER VALVES, EQUIPPED WITH PLUGS AND CHAINS, CONSTRUCTION FEATURES AS INDICATED, AND CONSTRUCTED WITH THE FOLLOWING ADDITIONAL CONSTRUCTION FEATURES:
1. FINISH: POLISHED BRASS
2. INLET PIPE: 4" PIPE
3. CAST LETTERING: "AUTO. SPKR."
4. ESCUTCHEON: 12" DIAMETER OF 7" X 14" RECTANGLE
5. SIAMESE CONNECTION: FLUSH, STACKED INLETS; FLUSH, ADJACENT INLETS; Y-TYPE, INLETS STRAIGHT, PROJECTING CONFIGURATION, OR Y-TYPE, INLETS 45°, PROJECTING CONFIGURATION.
6. PROVIDE KNOX BOX.
7. APPROVED MANUFACTURERS: CROKER, GUARDIAN FIRE, POTTER ROEMER, AND VIKING



PRELIMINARY SPRINKLER CALCULATION

Flow test Data
Static Pressure: 110
Residual Pressure: 80
Flow (GPM): 1186
Date taken: JULY 03, 2023
Time: 2:20 PM
Test taken by: CLINTON FIRE DEPARTMENT
Elevation of Hydrant: 0

GPM Demand of BLDG.
Most remote area or highest demand (Room Name) WELDING SHOP
Design Density (NFPA 13 or supplied by insurance Co.) 0.15
Design Area (Square footage) 1500
Overage Factor (1.20 typ.) 1.2907
Remote area GPM demand (Density x Area x Overage) 290.4075
Standpipe GPM demand (if required)(500 gpm for the first, 250 after) 0
Hose GPM demand (100 Light, 250 ordinary, 500 extra hazard) 250
Total GPM (Remote Area + Standpipe + Hose) 540.4075

Available Pressure
Density 0.15
Max Sprinkler Head coverage (As per NFPA 13 table 4-2.2) 11
Square footage spacing x Density = GPM sprinkler head (Q) 18.15
K-Factor of Sprinkler head (K) 5.6
Equation: Pressure required at head = (Q / K)^2
Elevation difference from test hydrant to base of riser x .433 10 4.33
Elevation difference from base of riser to remote area x .433 15 6.495
Backflow Preventer pressure drop 5
Safety Factor (5 psi min.) (SF) 5
Fixed Pressure drop = 31
Estimated Friction Drop Thru Fire Line
Length of run from test hydrant to riser (HR) 300
Pipe C Factor (Ductile Iron C-100) 100
Nominal Pipe Inside Diameter (10", 8", 6", 4", 3") 6

Friction loss in pipe (psi/ft) (Based on Hazen William Equation) (HW1) 0.016637
HR x 1.30 x HW1 = 6
Length of run from riser to last sprinkler head (estimated.) (RS)
Base of Riser to farthest sprinkler 160
Pipe C Factor (Black Steel C-120) 120
Nominal Pipe Inside Diameter (6", 4", 3", 2-1/2", 2") 4

Friction loss in pipe (psi/ft) (Based on Hazen William Equation) (HW2) 0.085537
RS x 1.30 x HW2 = 18
Estimated Required Flow Data for Building
Required GPM 540.4075
Required PSI 56

FIRE PROTECTION GENERAL NOTES

- 1. THE SPRINKLER HEADS SHOWN ARE GENERAL IN NUMBER AND LOCATION. THE EXACT NUMBERS AND LOCATIONS SHALL BE DETERMINED BY THE SUCCESSFUL SPRINKLER INSTALLER AND SHALL BE SHOWN ON HIS SHOP DRAWINGS. THE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13 & 24.
2. PROVIDE A HYDRAULICALLY DESIGNED FULL COVERAGE SPRINKLER SYSTEM THAT ARE SUBJECT TO FREEZING OR FREEZE PROTECTION.
3. PROVIDE DRY PENDANT TYPE HEADS IN COOLER, FREEZER AND/OR OTHER AREAS THAT ARE SUBJECT TO FREEZING FOR FREEZE PROTECTION.
4. THE SPRINKLER CONTRACTOR SHALL COORDINATE LOCATIONS OF SPRINKLER HEADS AND ASSOCIATED PIPING WITH ALL OTHER TRADES.
5. ALL SPRINKLER HEADS LOCATED IN 2x4 TILES SHALL BE CENTERED.
6. SPRINKLER SYSTEM SHALL BE LIGHT HAZARD IN ALL AREAS, EXCEPT ORDINARY HAZARD GROUP I IN THE WELDING SHOP, AG INNOVATION, ELECTRICAL/MECHANICAL ROOM.
7. CONTRACTOR SHALL VERIFY LOCATION AND INSTALLATION REQUIREMENTS OF BACKFLOW PREVENTER WITH THE LOCAL AUTHORITY HAVING JURISDICTION, AND LOCAL WATER UTILITY BEFORE CONSTRUCTION OR SITE EXCAVATION HAS BEGUN.
8. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FULL REPLACEMENT COST OF SURFACES DAMAGED BY DRAINAGE FROM THE SPRINKLER SYSTEM.
9. THE CONTRACTOR MUST PROVIDE A CERTIFIED CALCULATION DEMONSTRATING THE CHARACTERISTICS OF THE PROPOSED SYSTEM AND SHOWING PIPE SIZE AND SYSTEM FLOW.
10. THE MINIMUM PIPE SIZE FOR THE UNDERGROUND SPRINKLER MAIN IS 6". CONTRACTOR TO VERIFY WITH A CERTIFIED CALCULATION. THE MINIMUM BURY DEPTH FOR THE FIRE MAIN IS 36" BELOW FINISHED GRADE.
11. PROVIDE A "PUMPER" HYDRANT WITHIN 100' OF THE FIRE DEPARTMENT CONNECTION AS REQUIRED BY THE AHJ.
12. THE NEW SPRINKLER SYSTEM IS AN NFPA 13-4.1 WET PIPE.
13. ALL FIRE PROTECTION PIPING STARTING FROM POINT OF SERVICE ON MUST BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR. SEE THE SITE UTILITY DRAWING FOR UNDERGROUND PIPING AND VALVES REQUIRED.
14. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
15. THE VELOCITY OF WATER FOR SPRINKLER PIPING SHALL NOT EXCEED 21 FPS (FEET PER SECOND).
16. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES.
17. SEE MECHANICAL SHEETS FOR DIFFUSER LOCATIONS.
18. SEE ELECTRICAL LIGHTING SHEETS FOR LOCATION OF LIGHTS.

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PROJECT INFORMATION
PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
PROJECT NO.: 220042-02
ACTIVE DESIGN PHASE
[] FOR REVIEW ONLY
[] FOR PERMITTING ONLY
[] SCHEMATIC DESIGN
[] DESIGN DEVELOPMENT
[] CONSTRUCTION BIDDING
[] CONSTRUCTION DOCUMENTS
[] AS-BUILT RECORD SET

REVISION INFORMATION
NO. DATE DESCRIPTION

KEY PLAN
SHEET INFORMATION
SHEET ISSUED: 10/06/2023
DESIGNED BY: JEJ
DRAWN BY: JEJ
REVIEWED BY: JCB
SHEET TITLE:

FIRE PROTECTION LEGENDS, SPECIFICATIONS, AND NOTES

SHEET NO.: FP001

PROJECT # 2023-10-31-01 FIELD SET TFM # 00017-D

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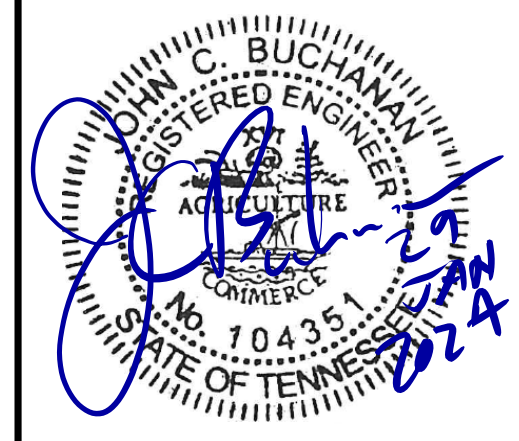
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: **220042-02**

ACTIVE DESIGN PHASE

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- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION	REV #1
1	1/28/2024		

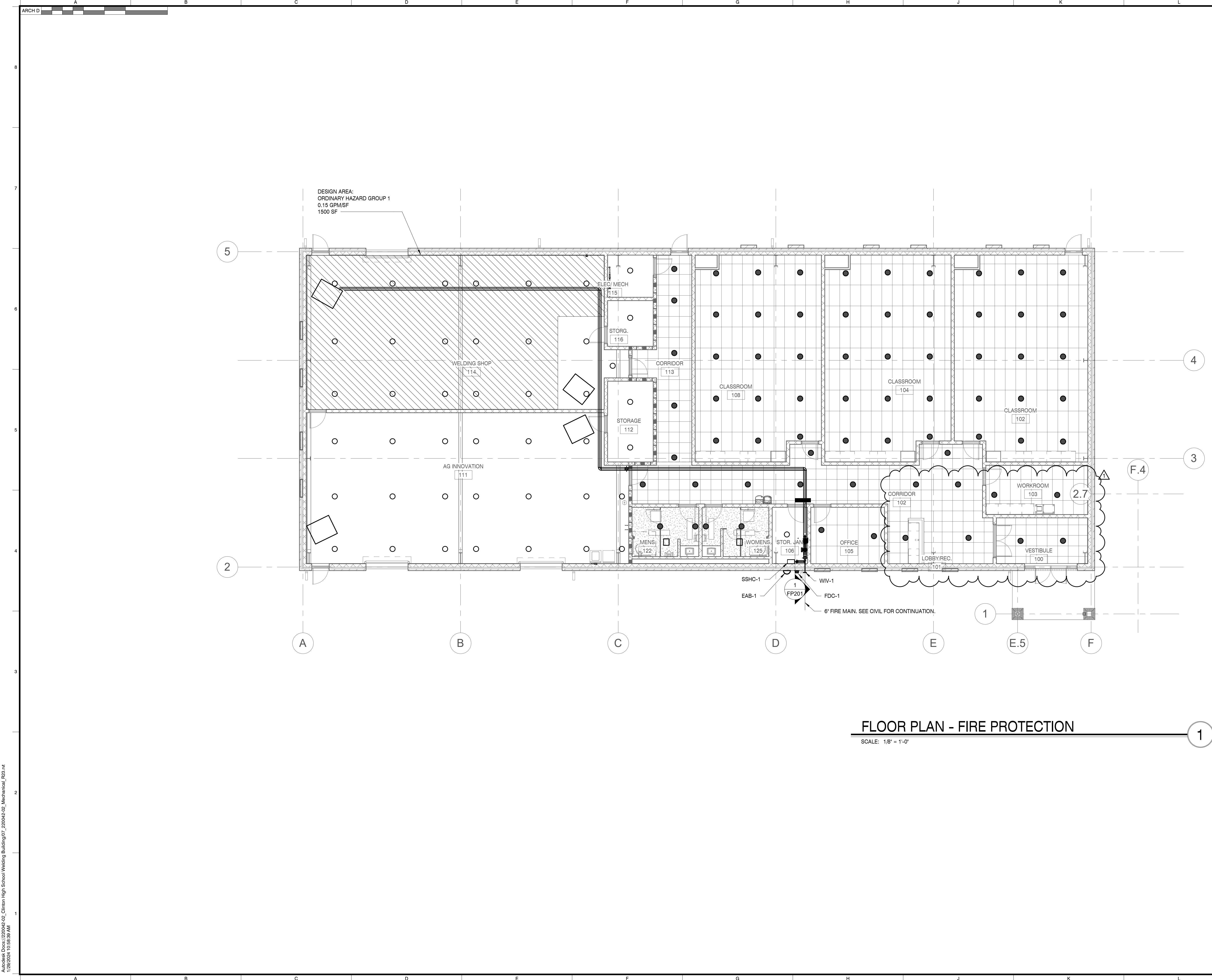
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: JEJ
DRAWN BY: JEJ
REVIEWED BY: JCB
SHEET TITLE:

FLOOR PLAN - FIRE PROTECTION

SHEET NO.: **FP101**



FLOOR PLAN - FIRE PROTECTION

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

1

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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

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JOHN C. BUCHANAN
 REGISTERED ENGINEER
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PROJECT INFORMATION
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 PROJECT ADDRESS:
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 CLINTON, TN 37716
 PROJECT NO.: 220042-02

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REVISION INFORMATION
 NO. DATE DESCRIPTION

KEY PLAN

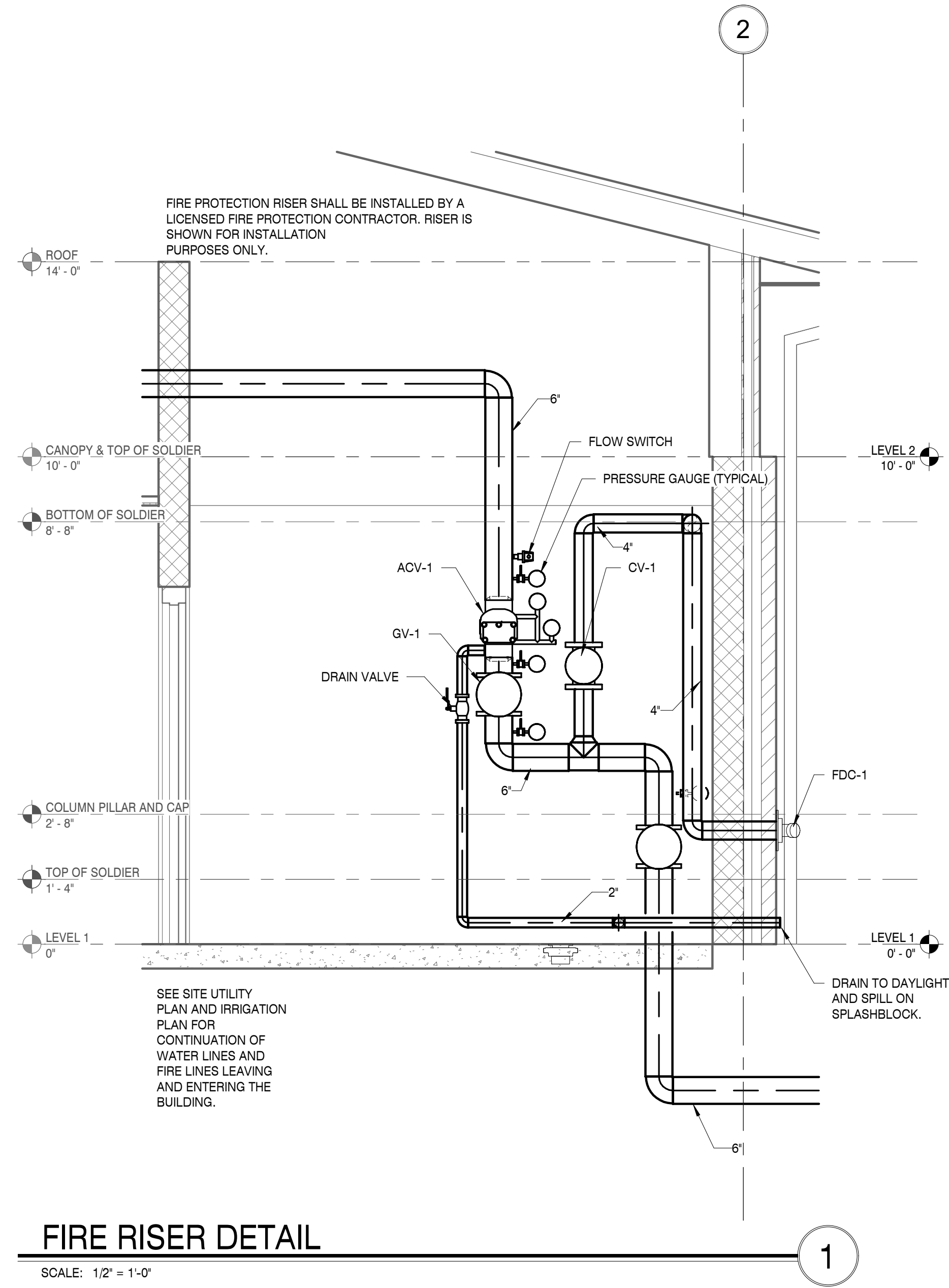
SHEET INFORMATION
 SHEET ISSUED: 10/06/2023
 DESIGNED BY: JEJ
 DRAWN BY: JEJ
 REVIEWED BY: JCB
 SHEET TITLE:

FIRE PROTECTION DETAILS
 SHEET NO.: FP201

FIRE PROTECTION VALVE SCHEDULE

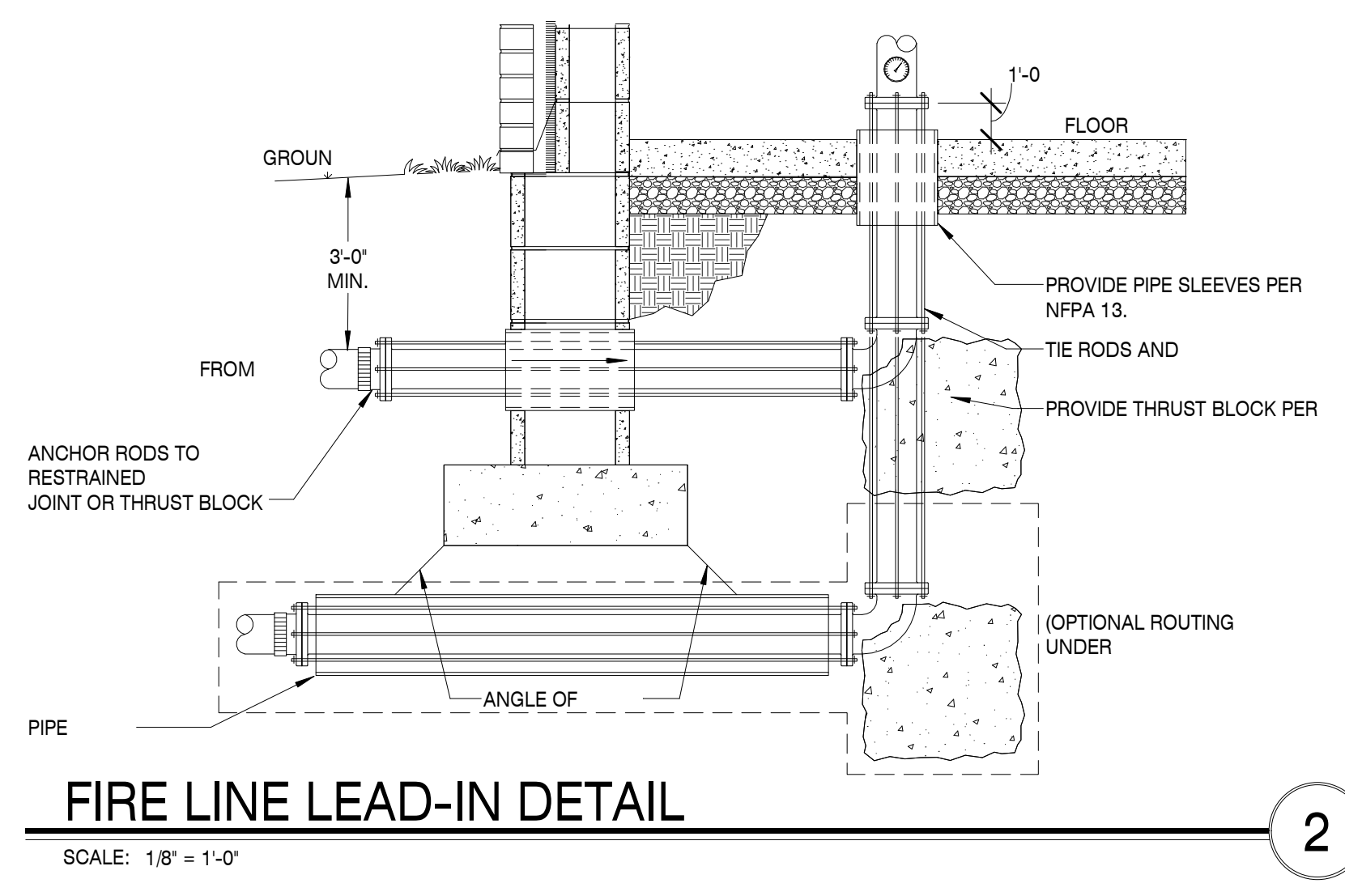
ID	DESCRIPTION	PIPE SIZE	MANUFACTURER & MODEL #	REMARKS
GV-1	GATE VALVE	6"	VICTAULIC SERIES 771F	1, 2
CV-1	CHECK VALVE	4"	VICTAULIC SERIES 717	1
FDC-1	FIRE DEPARTMENT CONNECTION	4"	CROKER 6440	1
SSHC-1	SPARE SPRINKLER HEAD CABINET	N/A	VICTAULIC SA1-000-0000	1
EAB-1	ELECTRIC ALARM BELL	N/A	POTTER MBA-8-24	1
ACV-1	ALARM CHECK VALVE	6"	VICTAULIC SERIES UMC	1

NOTES:
 1. SEE FIRE PROTECTION SPECIFICATIONS ON SHEET FP0.1 FOR MORE INFORMATION.
 2. PROVIDE TAMPER SWITCH AND CONNECT TO FIRE ALARM.



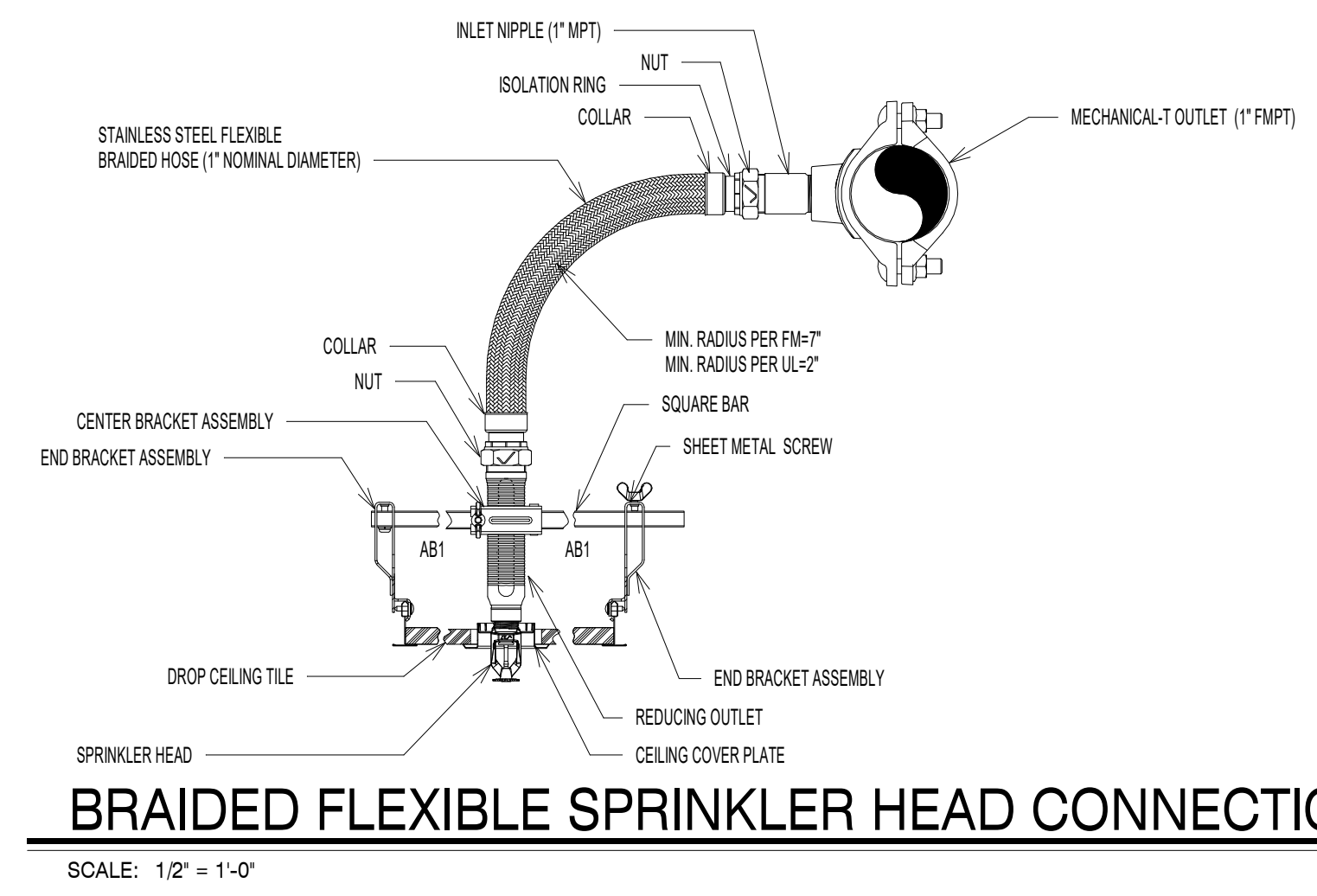
FIRE RISER DETAIL

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



FIRE LINE LEAD-IN DETAIL

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



BRAIDED FLEXIBLE SPRINKLER HEAD CONNECTION

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

SEISMIC RESTRAINT FOR PIPING

BRAACING OF PIPES:

A. VERTICAL PIPING

- (1) ATTACHMENT - VERTICAL PIPING SHALL BE SECURED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP THE PIPE IN ALIGNMENT AND CARRY THE WEIGHT OF THE PIPE AND CONTENTS. STACKS SHALL BE SUPPORTED AT THEIR BASES AND IF OVER 2 STORIES IN HEIGHT AT EACH FLOOR BY APPROVED METAL FLOOR CLAMPS.
- (2) SCREWED PIPE - SCREWED PIPE (I.P.S.) SHALL BE SUPPORTED AT NOT - LESS THAN EVERY OTHER STORY HEIGHT.
- (3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT EACH STORY FOR PIPING 1 1/2" AND LARGER DIAMETER, AT NOT MORE THAN 6 FOOT INTERVALS FOR PIPING 1 1/2" AND SMALLER IN DIAMETER.
- (4) PIPES OF OTHER APPROVED MATERIAL SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.
- (5) VERTICAL RISERS SHALL BE SUPPORTED WITH A RISER CLAMP AT EACH FLOOR. WHERE THERMAL EXPANSION OCCURS, ANCHOR THE RISER AT THE MIDPOINT OR AT THE NEXT FLOOR ABOVE THE MIDPOINT WITH ADDITIONAL SUPPORTS ADJACENT TO THE TOP AND BOTTOM OF THE RISER; INSTALL GUIDES ON THE RISER AT EACH IMMEDIATE FLOOR. RISERS IN HIGH RISE BUILDINGS (SIX STORIES AND ABOVE) SHALL BE DESIGNED INDIVIDUALLY.

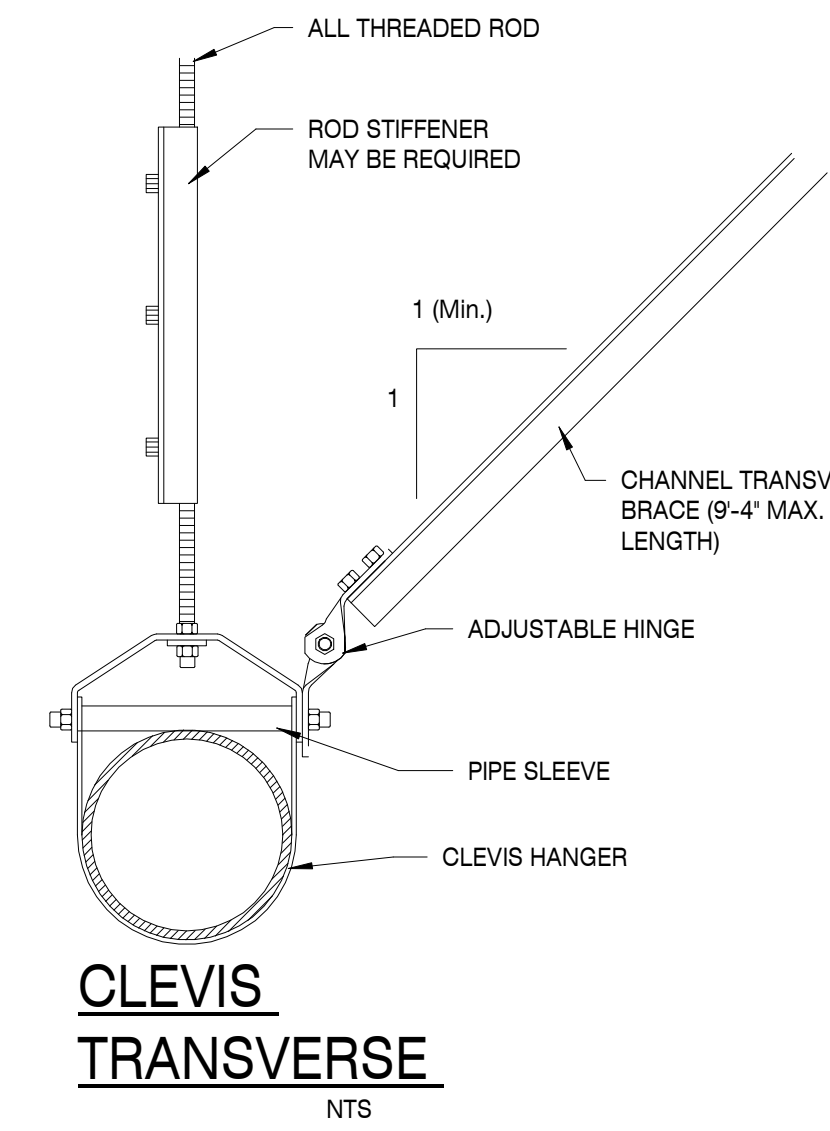
B. HORIZONTAL PIPING

- (1) SUPPORTS - HORIZONTAL PIPING SHALL BE SUPPORTED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP IT IN ALIGNMENT AND PREVENT SAGGING.
- (2) SCREWED PIPE - SCREWED PIPE (I.P.S.) OR FLANGED PIPE SHALL BE SUPPORTED AT APPROXIMATELY 10 FOOT INTERVALS.
- (3) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT APPROXIMATELY 6 FOOT INTERVALS FOR TUBING 1 1/2" AND SMALLER IN DIAMETER AND 10 FOOT INTERVALS FOR TUBING 2" AND LARGER IN DIAMETER.
- (4) PIPES OF OTHER APPROVED MATERIALS SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.

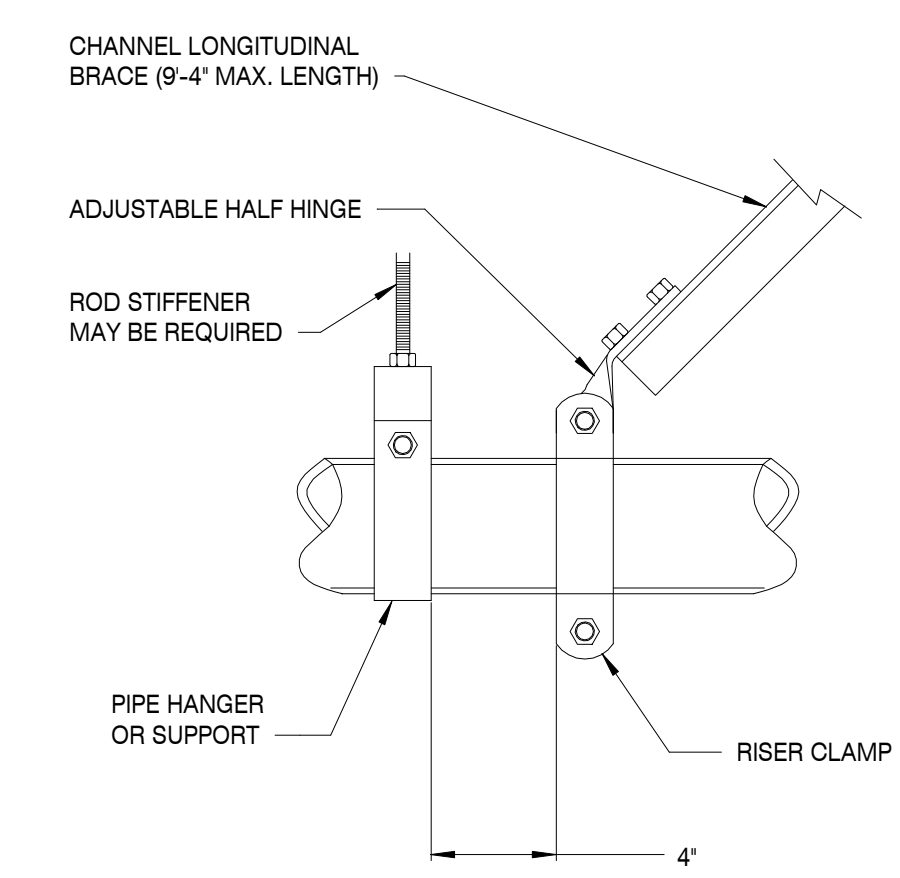
3. TRANSVERSE BRACING AT 40' - 0" O.C. MAXIMUM UNLESS OTHERWISE NOTED.
4. LONGITUDINAL BRACING AT 80' - 0" O.C. MAXIMUM UNLESS OTHERWISE NOTED. WHEN THERMAL EXPANSION OR CONTRACTION IS INVOLVED, PROVIDE LONGITUDINAL BRACINGS AT ANCHOR POINTS. THE LONGITUDINAL BRACES AND THE CONNECTIONS MUST BE CAPABLE OF RESISTING THE FORCE INDUCED BY EXPANSION AND CONTRACTION.
5. TRANSVERSE BRACING FOR ONE PIPING SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE PIPING SECTION CONNECTED PERPENDICULAR TO IT, IF THE BRACING IS INSTALLED 24" OF THE ELBOW OR TEE OF SIMILAR SIZE.
6. FOR THREADED PIPING THE FLEXIBILITY MAY BE PROVIDED BY THE INSTALLATION OF SWING JOINTS. IN WELDED OR SOLDER JOINT PIPING THE FLEXIBILITY SHALL BE PROVIDED BY EXPANSION LOOPS OR MANUFACTURED FLEXIBLE CONNECTORS. FOR PIPING WITH MANUFACTURED BALL JOINTS SELECT LENGTH OF PIPING OFFSET USING "SEISMIC DRIFT" IN PLACES OF "EXPANSION PER JOINT MANUFACTURERS" SELECTION TABLE. SEISMIC DRIFT = 0.015 FT. PER FOOT OF HEIGHT.
7. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
8. TRAPEZE HANGERS MAY BE USED. PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
9. A RIGID PIPING SYSTEM SHALL NOT BE BRACED TO DISSIMILAR PARTS OF A BUILDING OR TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE. EXAMPLES: WALL AND A ROOF; SOLID CONCRETE WALL AND A METAL DECK WITH LIGHTWEIGHT CONCRETE FILL.
10. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
11. AT VERTICAL PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER, AND AT INTERMEDIATE POINTS NOT TO EXCEED 30' - 0" ON CENTER.
12. FOR GAS PIPING, THE BRACING DETAILS, SCHEDULES AND NOTES IN THE SMACNA GUIDE MAY BE USED EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20' - 0" O.C. MAXIMUM AND LONGITUDINAL BRACING AT 40' - 0" O.C. MAXIMUM. ALSO 1" 1/4", 1 1/2", AND 2" DIAMETER PIPES SHALL BE BRACED THE SAME AS 2 1/2" DIAMETER PIPE IN THE SMACNA GUIDE. (NO BRACING IS REQUIRED FOR PIPES 3/4" DIAMETER AND SMALLER).

PIPING SEISMIC BRACING DETAIL

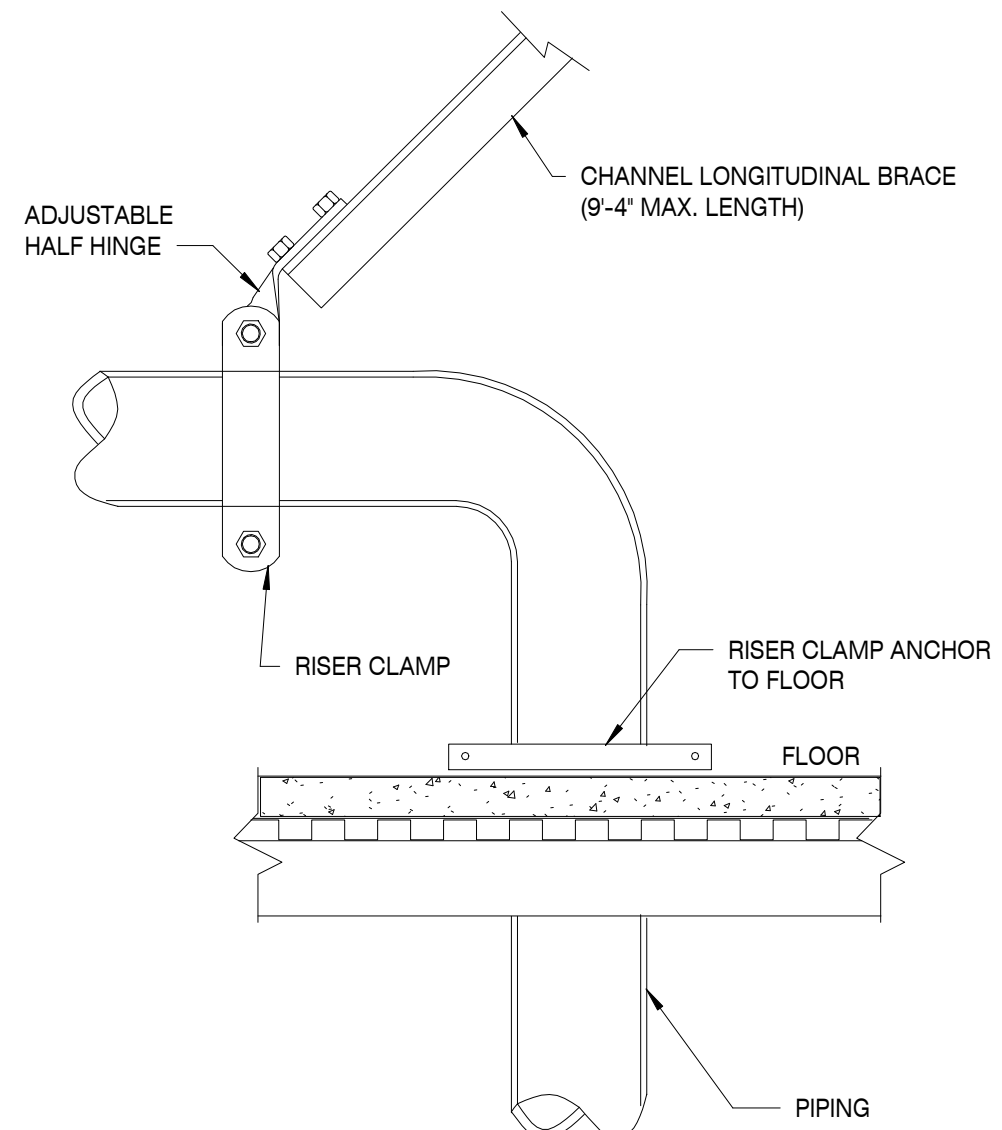
SCALE: N.T.S.



CLEVIS TRANSVERSE NTS



LONGITUDINAL NTS



TOP OF RISER NTS

TFM # 00017-D

PROJECT # 2023-10-31-01

FIELD SET

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SEAL

CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: JEJ

DRAWN BY: JEJ

REVIEWED BY: JCB

SHEET TITLE:

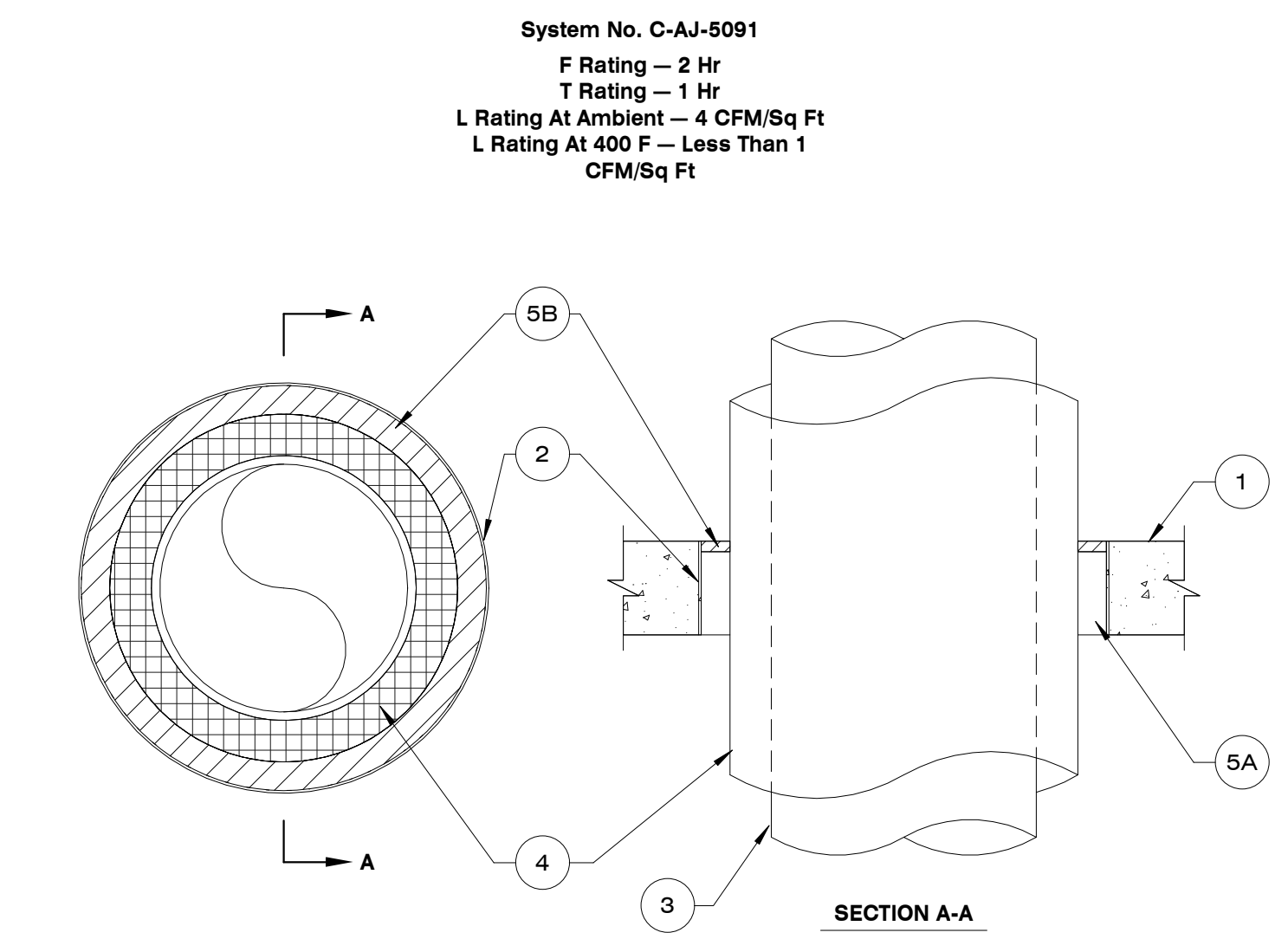
FIRE PROTECTION DETAILS

SHEET NO.: FP202

PROJECT # 2023-10-31-01

FIELD SET

TFM # 00017-D



System No. C-AJ-5091
F Rating — 2 Hr
T Rating — 1 Hr
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 19-1/2 in. See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.

2. Metallic Sleeve — (Optional) — Nom 20 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

2A. Sheet Metal Sleeve — (Optional) - Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. above the top surface of the floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. above the top surface of the floor.

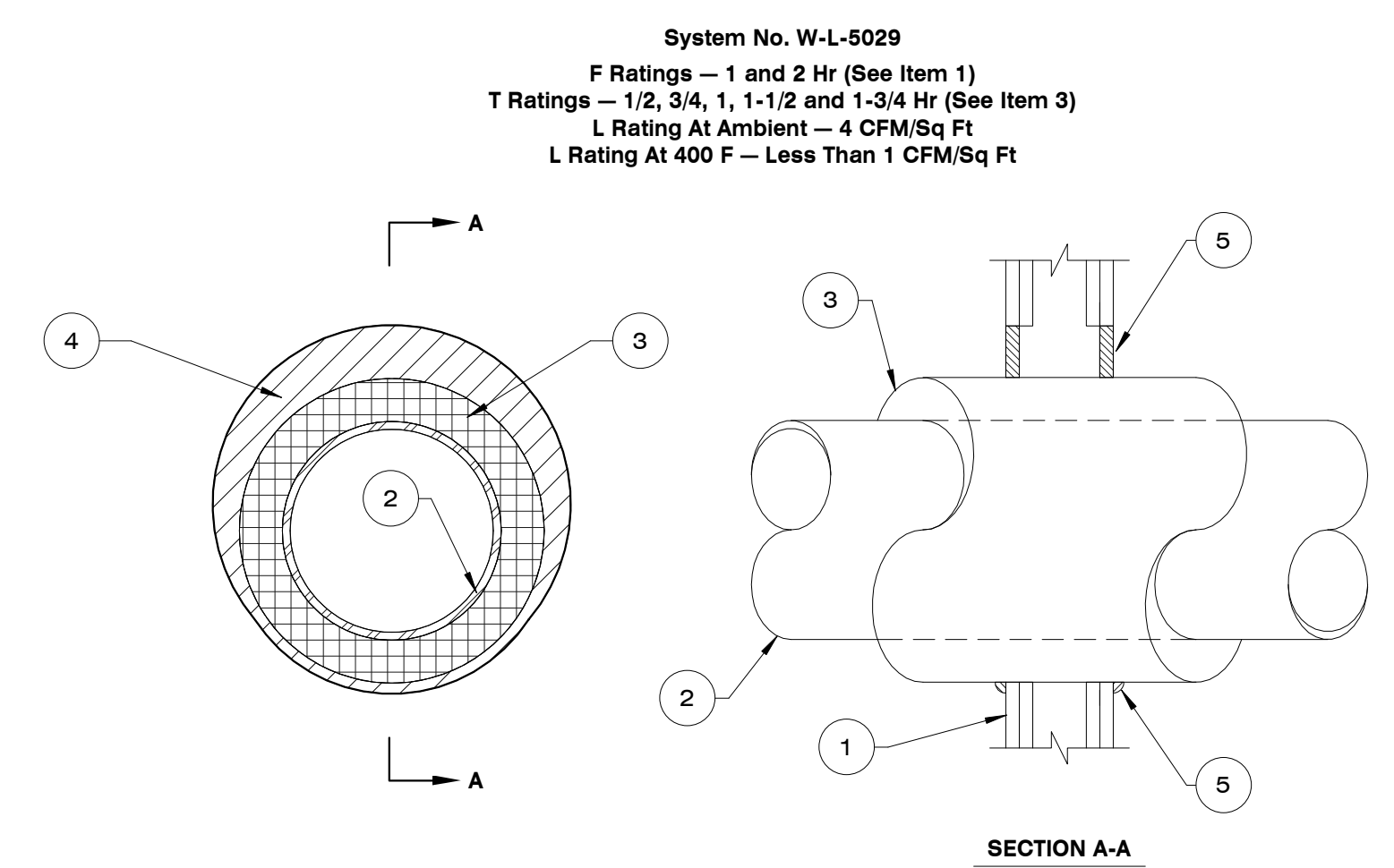
3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 12 in. diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

4. Pipe Covering — Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. to a max 2-1/4 in.

See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. The annular space shall be min 1/2 in. to max 2-1/4 in.

5. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark



System No. W-L-5029
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/2, 3/4, 1, 1-1/2 and 1-3/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* — 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 12 in. diam (or smaller) cast or ductile iron pipe.
C. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

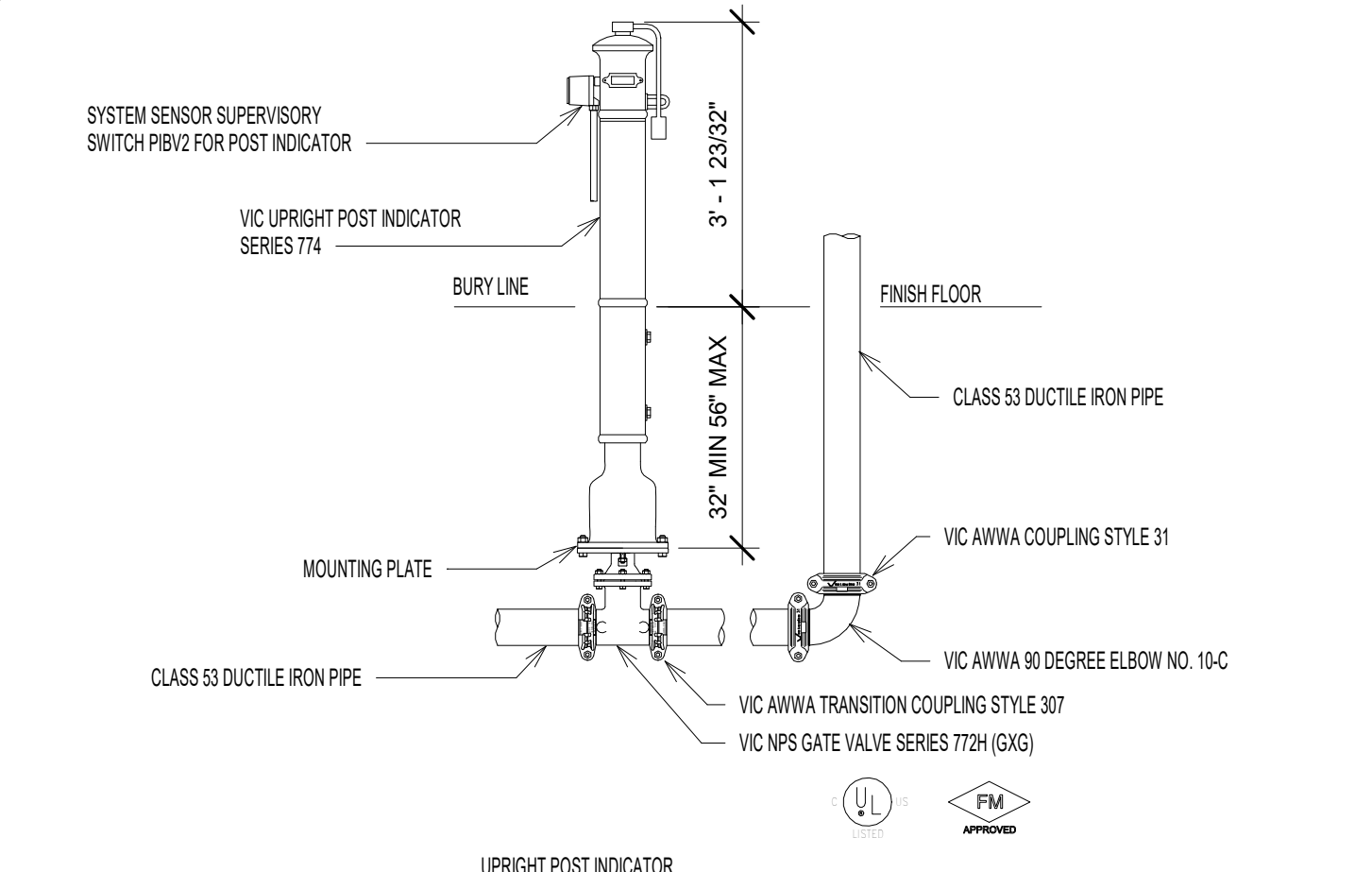
Wall Assembly Rating Hr	Through Penetrant		Pipe Covering Thkns In.	Annular Space		T Rating Hr
	Type +	Max Diam In.		Min In.	Max In.	
1	A	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	A	4	1-1/2	0	1-1/2	1
1	A	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	A	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	A	4	1-1/2	0	1-1/2	1-3/4
2	A	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.
See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

FIRE PENETRATION DETAIL

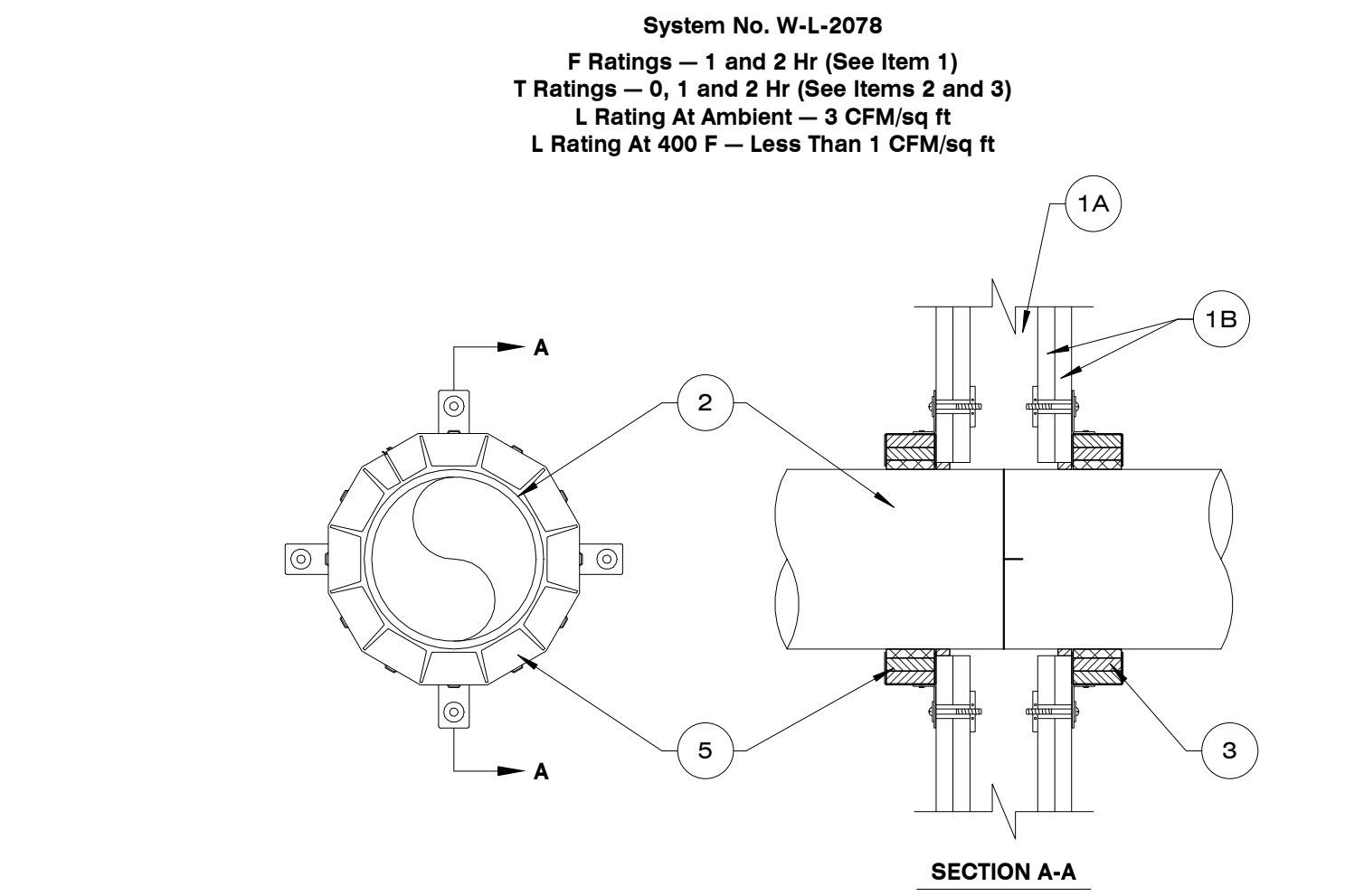
SCALE: N.T.S.

1



UPRIGHT INDICATOR 774-772H
SCALE: 1/2" = 1'-0"

2



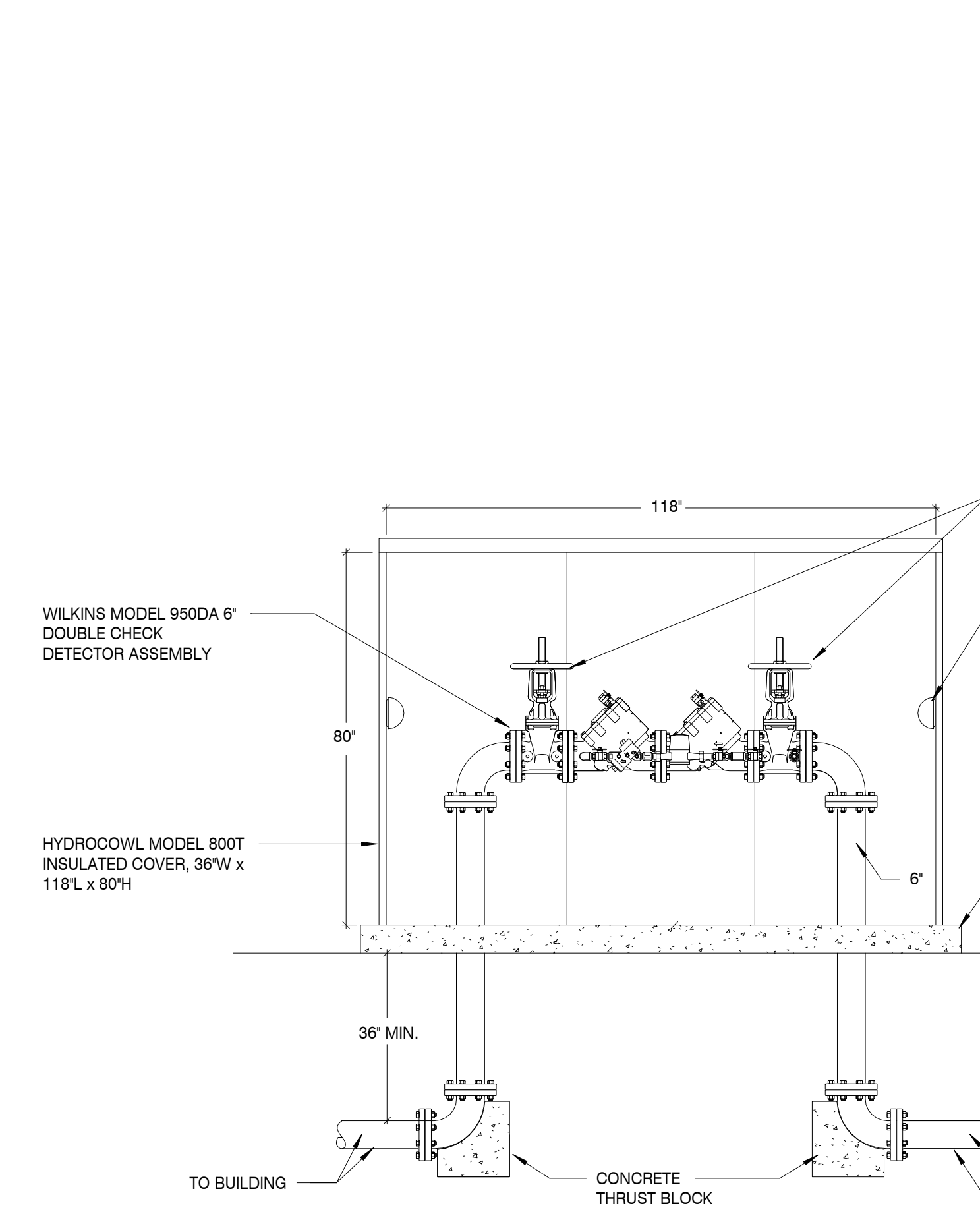
System No. W-L-2078
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient — 3 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 Hr.
3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" and CP 644 250/11" Firestop Collars
4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
B. Gypsum Board* — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 Hr.
3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" and CP 644 250/11" Firestop Collars
4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark



BACKFLOW PREVENTOR DETAIL
SCALE: N.T.S.

3

2023-10-31-01
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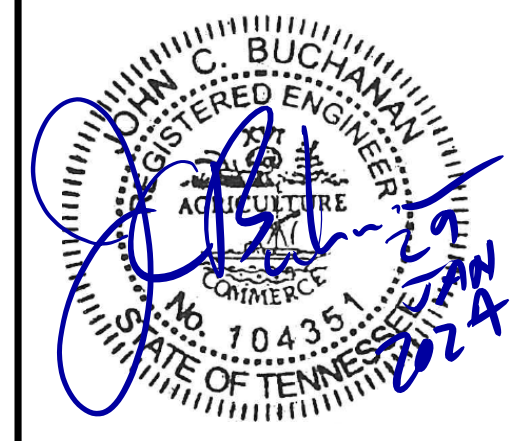
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- GENERAL NOTES**
- COORDINATE EXACT CEILING GRILLE LOCATION WITH REFLECTED CEILING PLAN AND LIGHTING PLAN.
 - UNLESS SPECIFICALLY NOTED OTHERWISE, POINT LOCATIONS OF ANY KIND ARE NOT TO BE PLACED IN CEILING SPACE.

TENNESSEE STATE FIRE MARSHAL'S OFFICE
 MBI COMPANIES INC.
 200 N. WEISGARBER ROAD
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 PHONE: (865) 584-0999
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CONSULTANT

SEAL



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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION	REV #1
1	1/29/2024		

KEY PLAN



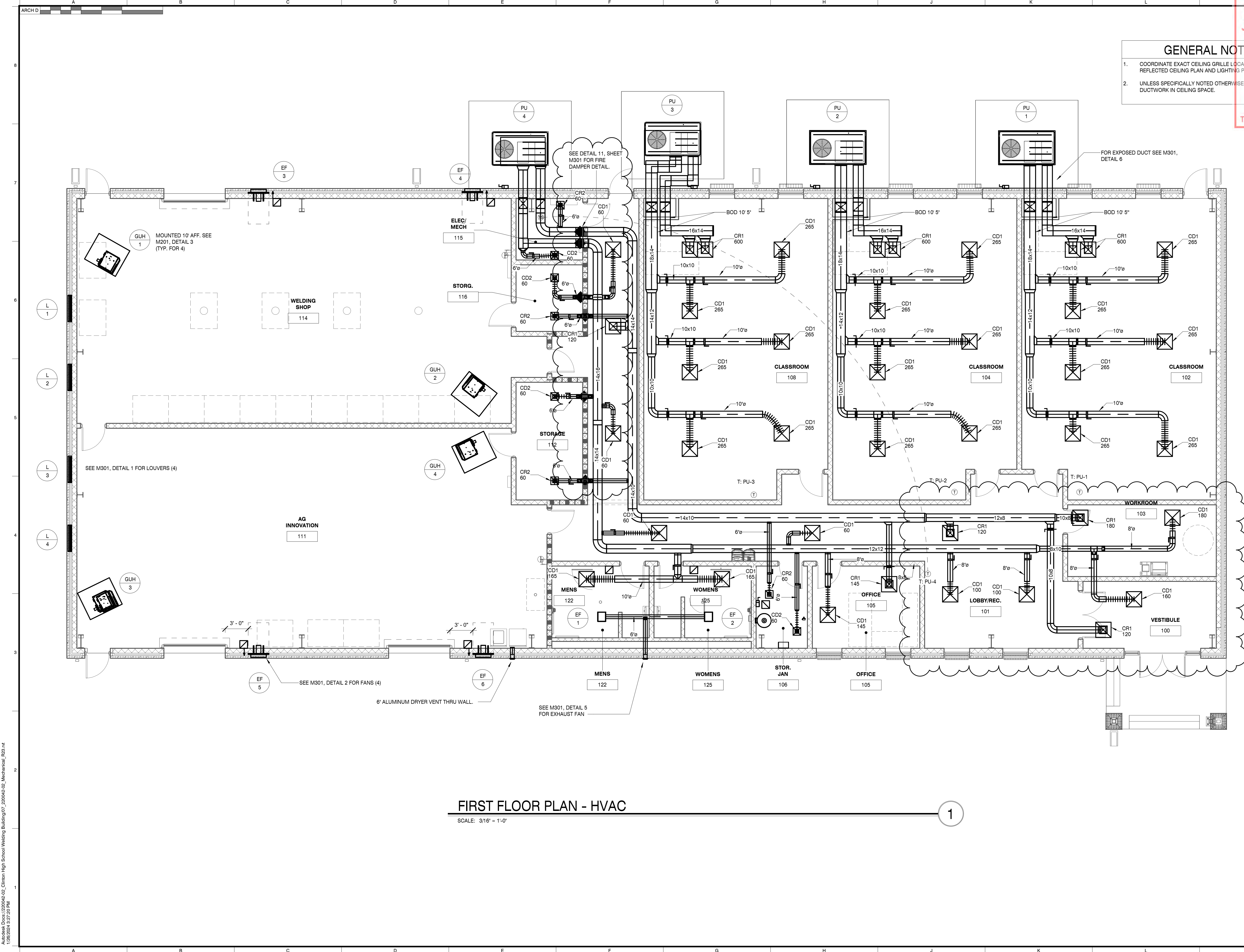
SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: DRJ
 DRAWN BY: DRJ
 REVIEWED BY: JCB
 SHEET TITLE:

FLOOR PLAN - HVAC
 SHEET NO.:

M101

PROJECT # 2023-10-31-01 FIELD SET TFM # 00017-D

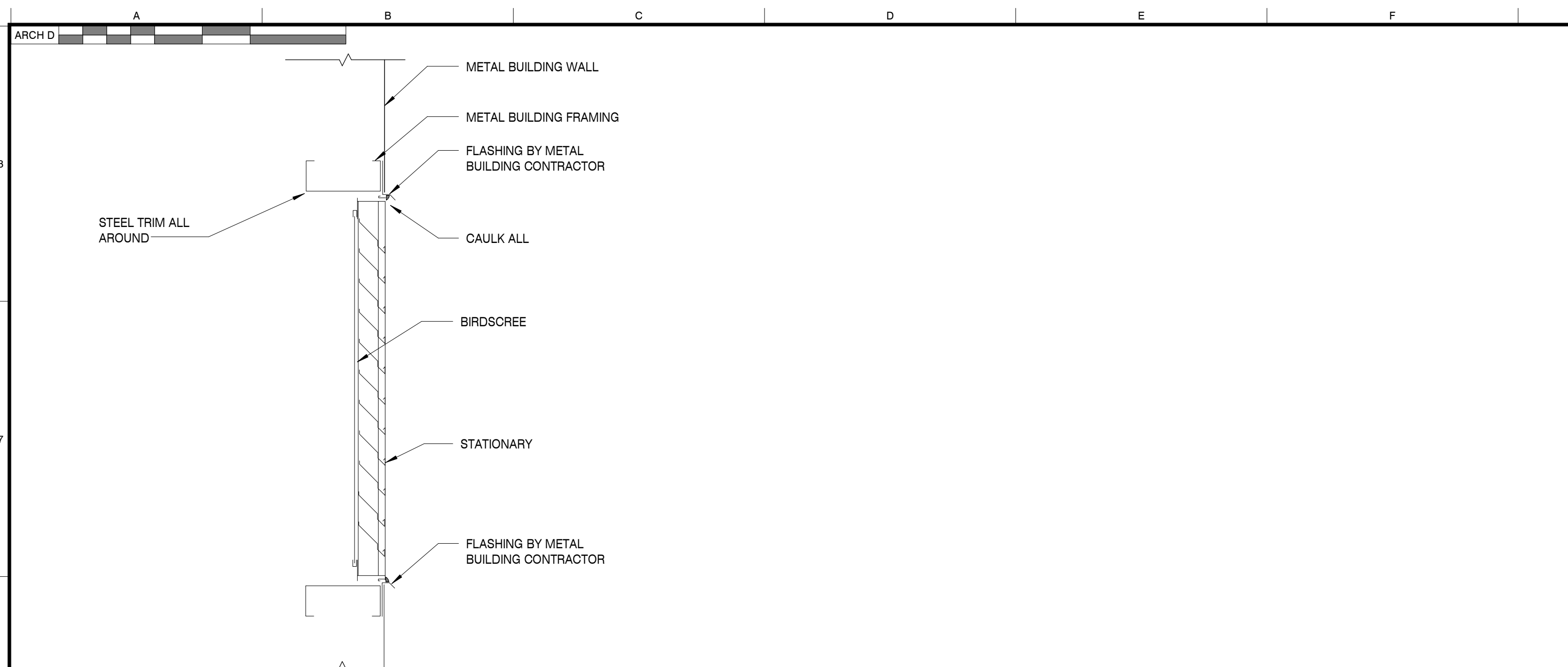


FIRST FLOOR PLAN - HVAC

SCALE: 3/16" = 1'-0"

1

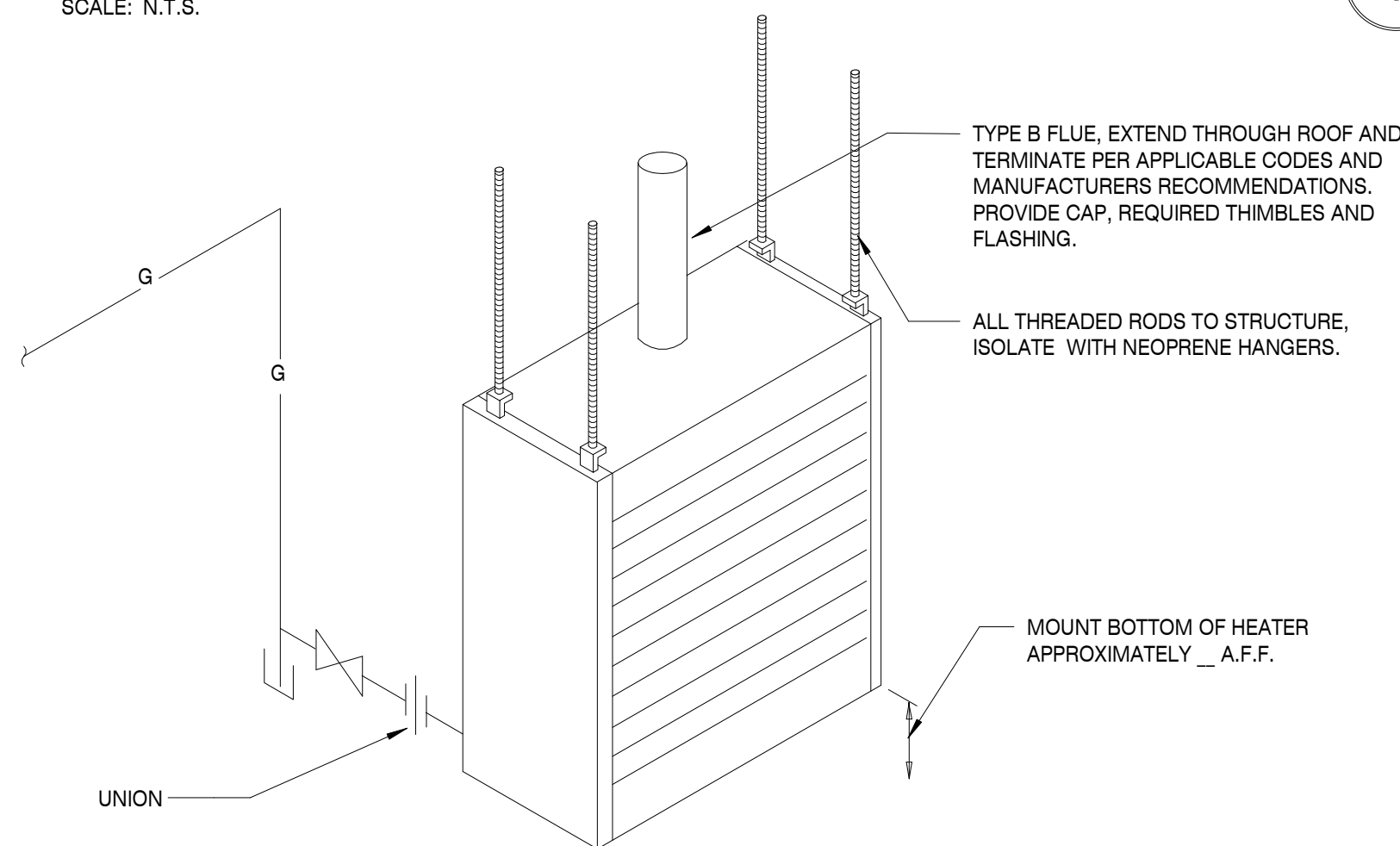
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WALL LOUVER INSTALLATION DETAIL

SCALE: N.T.S.

1

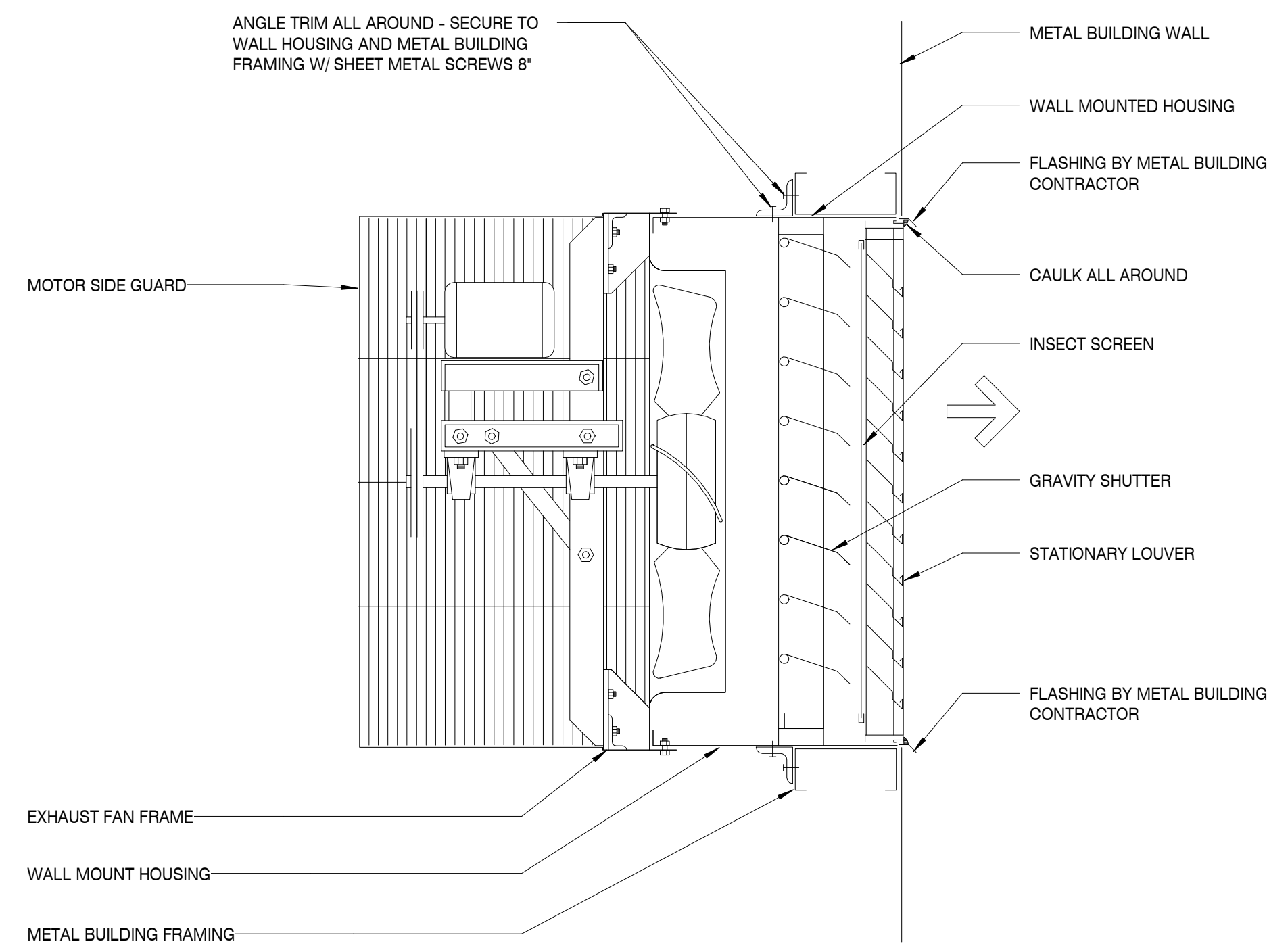


- SUSPEND THE UNIT HEATER DEAD LEVEL BOTH VERTICALLY AND HORIZONTALLY.
- SUSPEND THE UNIT HEATER SO THAT IT MAY BE EASILY DISCONNECTED AND REMOVED FOR SERVICE.
- LUBRICATE AS RECOMMENDED BY THE MANUFACTURER.
- CHECK OPERATION OF THERMOSTAT.
- CHECK PROPELLER BLADES FOR BALANCING BY RUNNING FAN AND CHECKING VIBRATION.
- ADJUST PIPE HANGERS SO THAT PIPING DOES NOT REST ON UNIT HEATER.
- ADJUST SUPPORT RODS SO THAT UNIT DOES NOT REST ON PIPING.

GAS FIRED UNIT HEATER DETAIL

SCALE: N.T.S.

2



WALL EXHAUST FAN DETAIL

SCALE: N.T.S.

3

GAS FIRED PACKAGED UNIT WITH DX COOLING SCHEDULE

DRAWING SYMBOL	SUPPLY AIR			OUTSIDE AIR CFM	COOLING				HEATING		SMOKE DETECTORS		EFFICIENCIES		SINGLE POINT ELECTRICAL		WEIGHT (LBS.)	MFR MODEL NUMBER		
	TOTAL CFM	EXT. SP (IN. WG)	FAN HP		TEMPS (°F) @ 95°F AMBIENT		CAPACITIES (MBH)		INPUT	OUTPUT	SUPPLY	RETURN	EER	SEER	AFUE	MCA			MOCP	VOLTAGE
					UNIT ENT AIR	COIL LGV AIR	TOTAL	SENS												
PU 1	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB	48.35	35.07	60.00	49.00	YES	YES	13	17.5	82	30.0	40.0	208/3/60	763	TRANE YHC047E3RLA
PU 2	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB	48.35	35.07	60.00	49.00	YES	YES	13	17.5	82	30.0	40.0	208/3/60	763	TRANE YHC047E3RLA
PU 3	1600	0.75	1.0	317	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB	48.35	35.07	60.00	49.00	YES	YES	13	17.5	82	30.0	40.0	208/3/60	763	TRANE YHC047E3RLA
PU 4	1485	0.75	1.0	300	80.00 DB / 67.00 WB	58.46 DB / 56.78 WB	48.35	35.07	60.00	49.00	YES	YES	13	17.5	82	30.0	30.0	208/3/60	763	TRANE YHC047E3RLA

ACCESSORIES AND FEATURES:

- 5 YEAR COMPRESSOR WARRANTY.
- FILTER RACK AND THROW-AWAY 1" THICK FILTER FURNISHED WITH UNIT.
- ROOF CURB COMPATIBLE WITH ROOF SYSTEM INSTALLED.
- UNITS SHALL BE TRANE OR APPROVED SUBSTITUTE.
- COOLING CAPACITIES ARE SCHEDULED AT 80/67 DEGREES INDOOR AND 95 DEGREES OUTDOOR TEMPERATURE.
- EQUIPMENT TO BE ARI CERTIFIED AND U.L. AND A.G.A. APPROVED.
- AUTOMATIC CHANGEOVER THERMOSTAT WITH LOCKING PLASTIC COVER.
- PROVIDE DUCT SMOKE DETECTORS WHERE SCHEDULED ABOVE. INSTALL PER NFPA & ALL LOCAL CODES.
- COOLING CAPACITIES DO NOT HAVE FAN MOTOR HEAT DEDUCTED.
- ECONOMIZER W/ POWERED EXHAUST
- HOT GAS BEHEAT

EXHAUST FAN SCHEDULE

DRAWING SYMBOL	USE	AMCA CFM	S.P. IN. WG	RPM	TIP SPEED	WATTS/HP	TYPE	VOLTAGE	SONES	WEIGHT (LBS.)	MANUFACTURER MODEL NO.
EF 1	122 - MENS	180	0.266	1400	1,590	48 W	CEILING EXHAUST FAN	115/60/1	1.5	24	GREENHECK SP-A190
EF 2	125 - WOMENS	180	0.266	1400	1,590	48 W	CEILING EXHAUST FAN	115/60/1	1.5	24	GREENHECK SP-A190
EF 3	114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG
EF 4	114 - WELDING SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG
EF 5	111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG
EF 6	111 - AG SHOP	3,000	0.25	947	5,982	3/4 HP	WALL AXIAL EXHAUST FAN	115/60/1	9.9	80	GREENHECK AER-24-02-315-VG

ACCESSORIES AND FEATURES:

- ROOF FANS: ROUND LOW SILHOUETTE ALUMINUM HOUSING; CENTRIFUGAL ALUMINUM WHEEL; BIRDSCREEN & BACKDRAFT DAMPER; SAFETY DISCONNECT @ FAN; PREFAB CURB TO MATCH ROOF CONSTRUCTION AND SLOPE; WALL SWITCH OR STARTER.
- CEILING FANS: ALUMINUM INLET GRILLE; LINED HOUSING; CENTRIFUGAL FAN; BACKDRAFT DAMPER; FLAT ROOF CAP OR ROOF JACK AS APPLICABLE; SOLID STATE SPEED CONTROLLER MTD. TO UNIT FOR BALANCING AND WALL SWITCH FOR ON/OFF CONTROL.
- WALL FANS: WALL SHUTTER (HEAVY DUTY); WALL COLLAR; MOTOR SIDE GUARD; DISCONNECT @ FAN

LOUVER SCHEDULE

DRAWING SYMBOL	LOUVER SIZE (WIDTH x HEIGHT)	CFM	MINIMUM SQ/FT FREE AREA	MAXIMUM PRESSURE DROP (IN. WG)	MANUFACTURER & MODEL NO.
L 1	36 X 42	3000	3.73	0.12	RUSKIN ELF211D
L 2	36 X 42	3000	3.73	0.12	RUSKIN ELF211D
L 3	36 X 42	3000	3.73	0.12	RUSKIN ELF211D
L 4	36 X 42	3000	3.73	0.12	RUSKIN ELF211D

ACCESSORIES AND FEATURES: (BY EQUIPMENT INSTALLER)

- LOUVERS SHALL BE BEAR AMCA SEAL AND SHALL BE TESTED IN ACCORDANCE WITH AMCA 5111.
- WATER PENETRATION THROUGH LOUVER SHALL NOT OCCUR BELOW 1000 FPM (FREE AREA)

GAS UNIT HEATER SCHEDULE

DRAWING SYMBOL	TYPE	CFM	HEAT (MBH)		VOLTAGE FAN HP	WEIGHT (LBS)	MANUFACTURER MODEL NO.
			IN	OUT			
GUH 1	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/10 0.06	58	REZNOR UDZ - A
GUH 2	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/10 0.06	58	REZNOR UDZ - A
GUH 3	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/10 0.06	58	REZNOR UDZ - A
GUH 4	NATURAL GAS SEPARATED COMB. LOW STATIC	456	30	24.6	115/10 0.06	58	REZNOR UDZ - A

ACCESSORIES AND FEATURES:

- PROVIDE MOUNTING HARDWARE.
- ELECTRONIC IGNITION, PROVIDE 120V SUPPLY WITH 24 VOLT CONTROL TRANSFORMER.
- ALTERNATIVE MANUFACTURERS: MODINE
- PROVIDE GAS TRAIN PIPING INCLUDING MANUAL SHUT OFF, GAS CONTROL VALVE PACKAGE, UNION AND DIRT LEG.
- PROVIDE CONCENTRIC VENT KIT AND VENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- PROVIDE TYPE B GAS VENT WITH ROOF THIMBLE AND CAP.
- PROVIDE 2-WAY DISCHARGE LOUVERS.

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

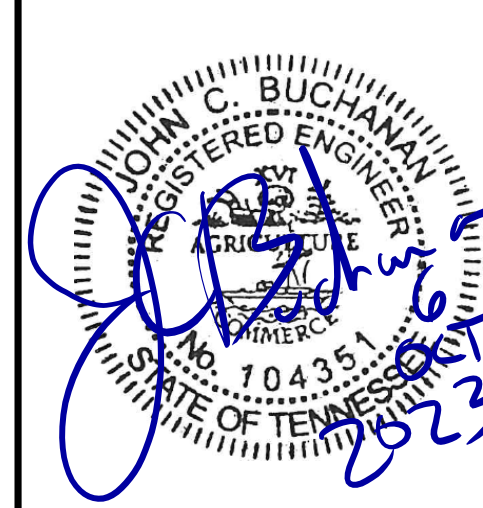
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SEE STATE FIRE MARSHAL'S OFFICE

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FAX: (865) 584-6213
WEB: mbicompanies.com

CONSULTANT

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
PROJECT NO.: 220042-02

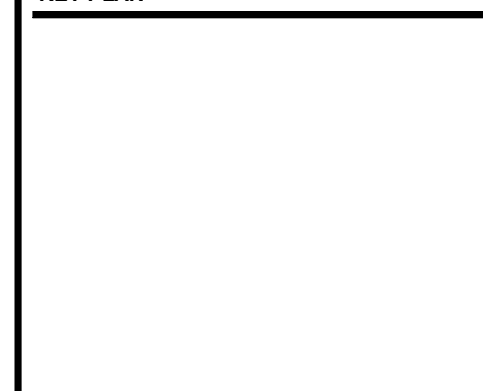
ACTIVE DESIGN PHASE

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- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN



SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: DRJ
DRAWN BY: DRJ
REVIEWED BY: JCB
SHEET TITLE:

HVAC SCHEDULES

SHEET NO.:

M201

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TFM # 00017-D
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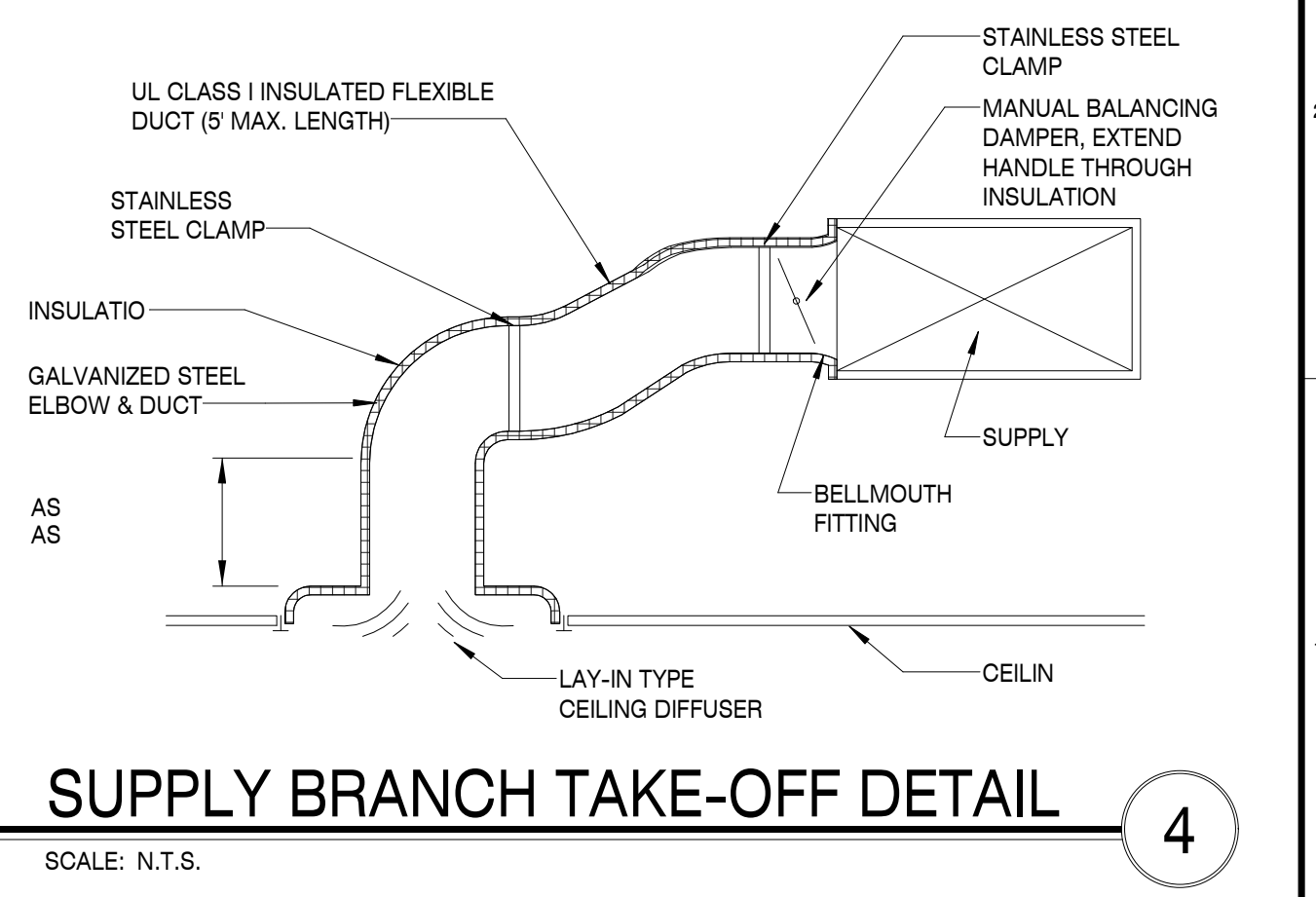
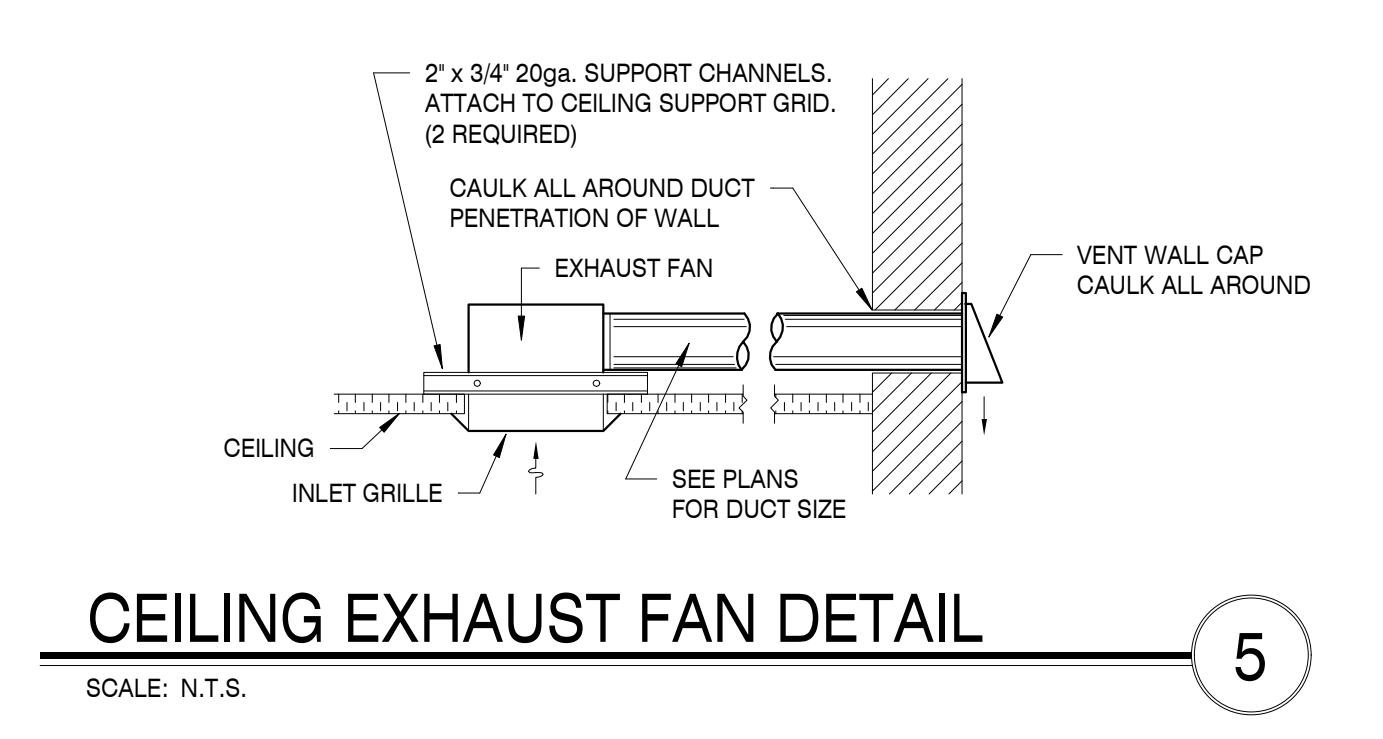
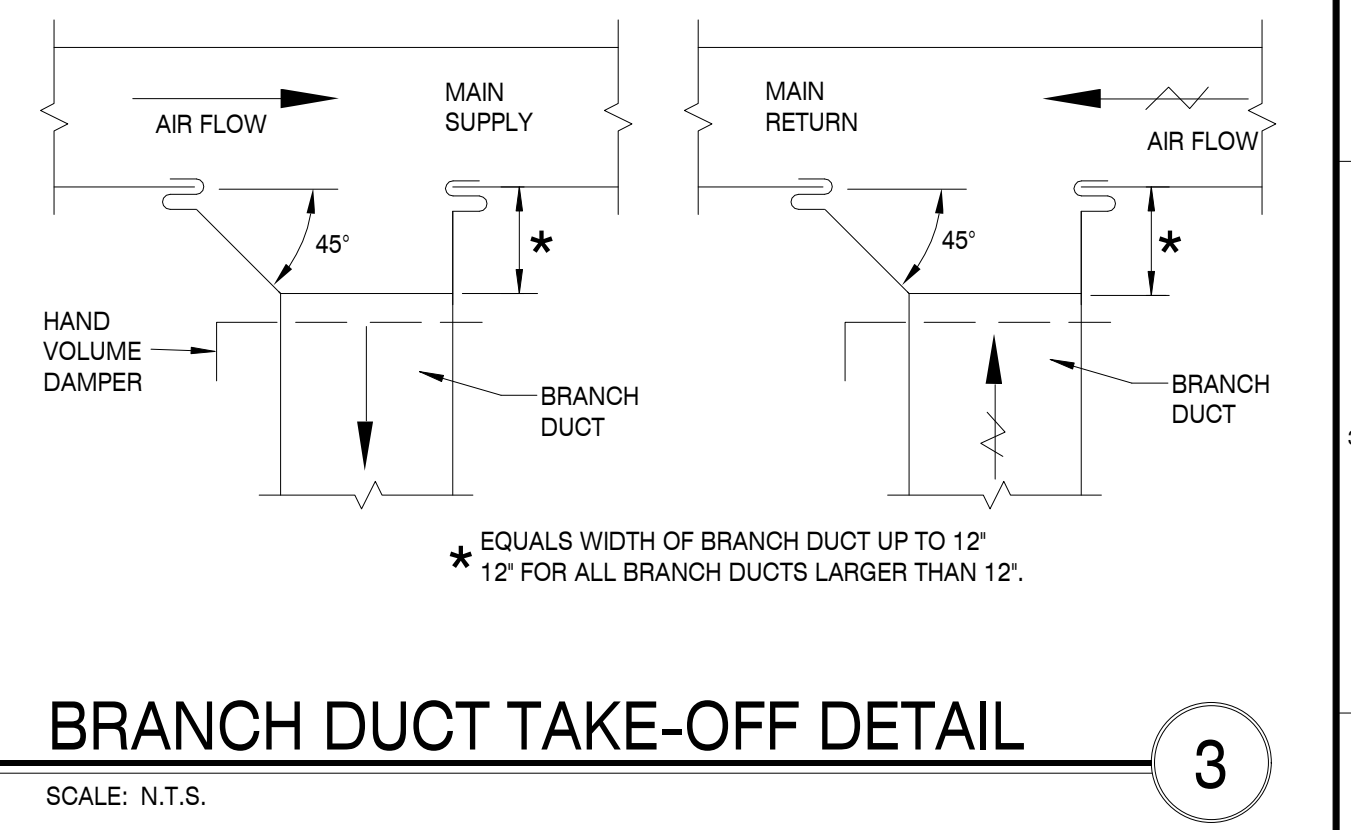
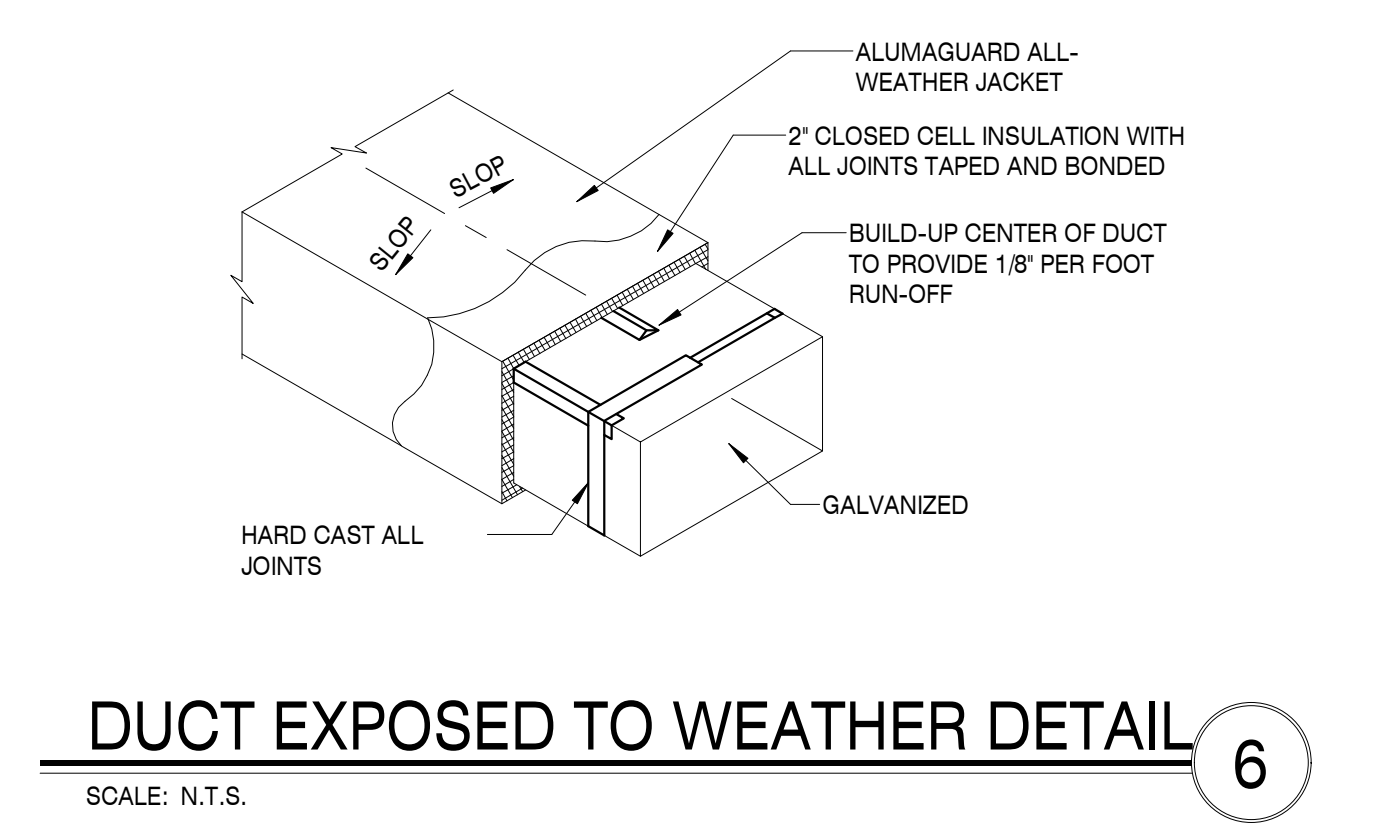
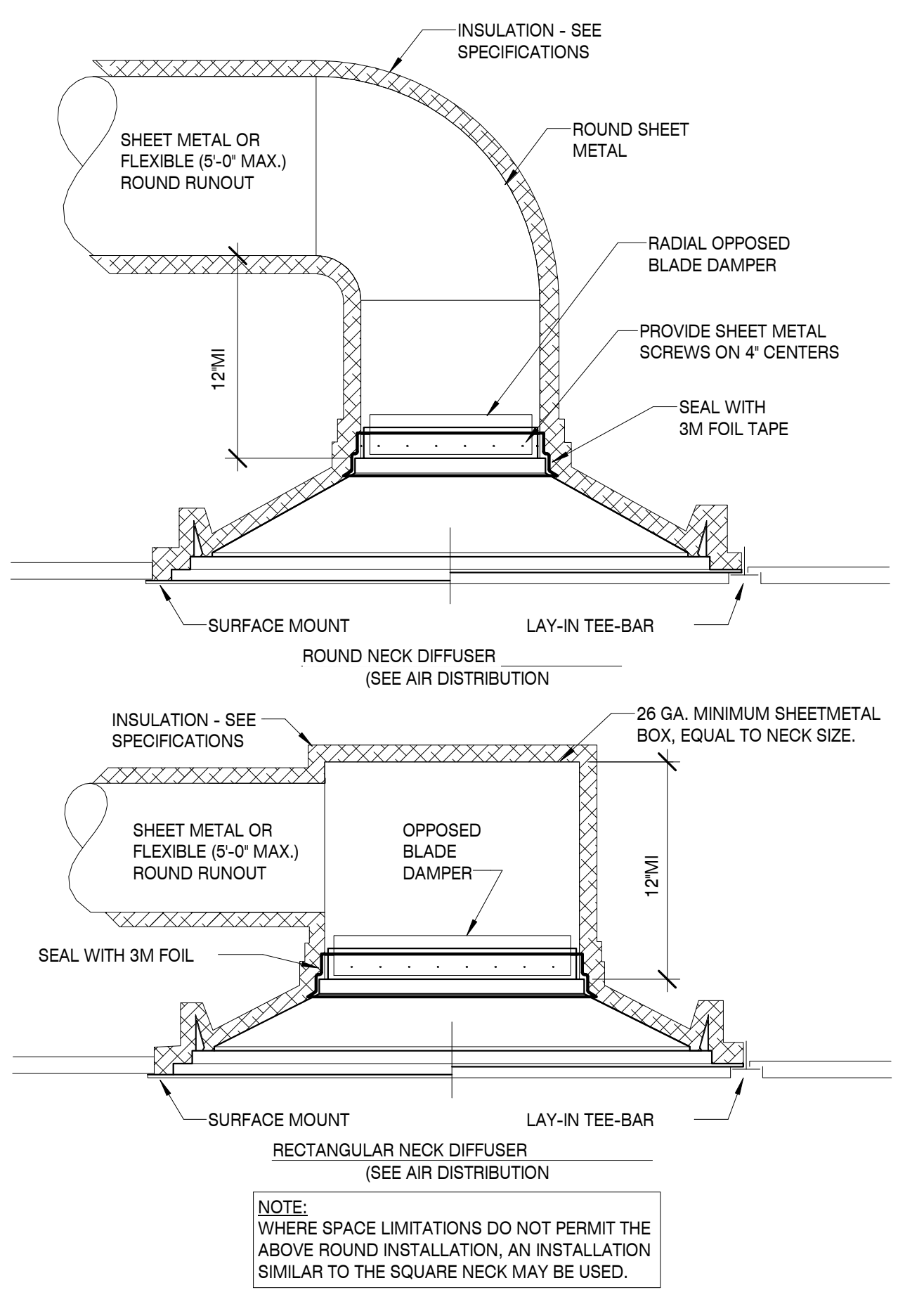
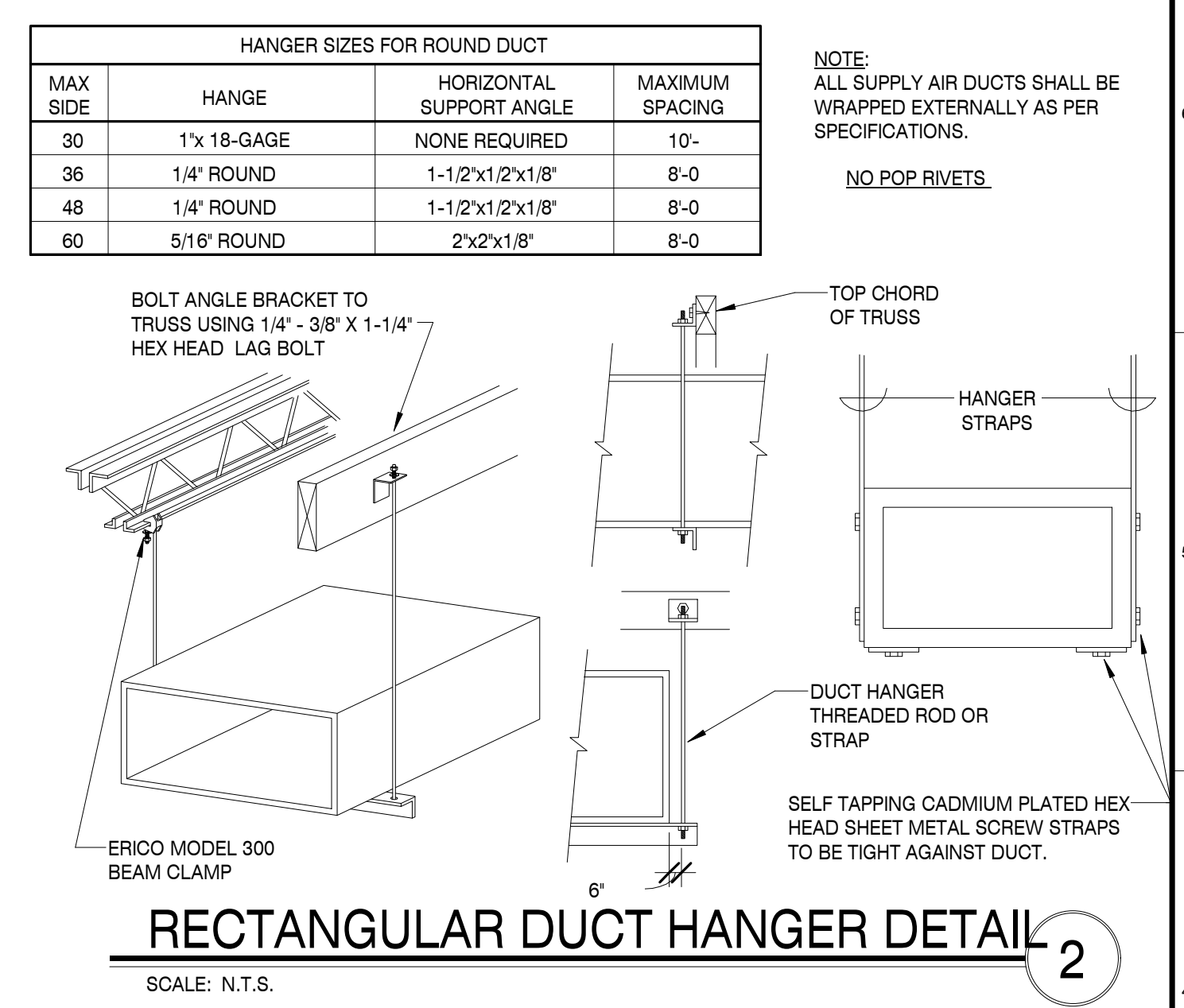
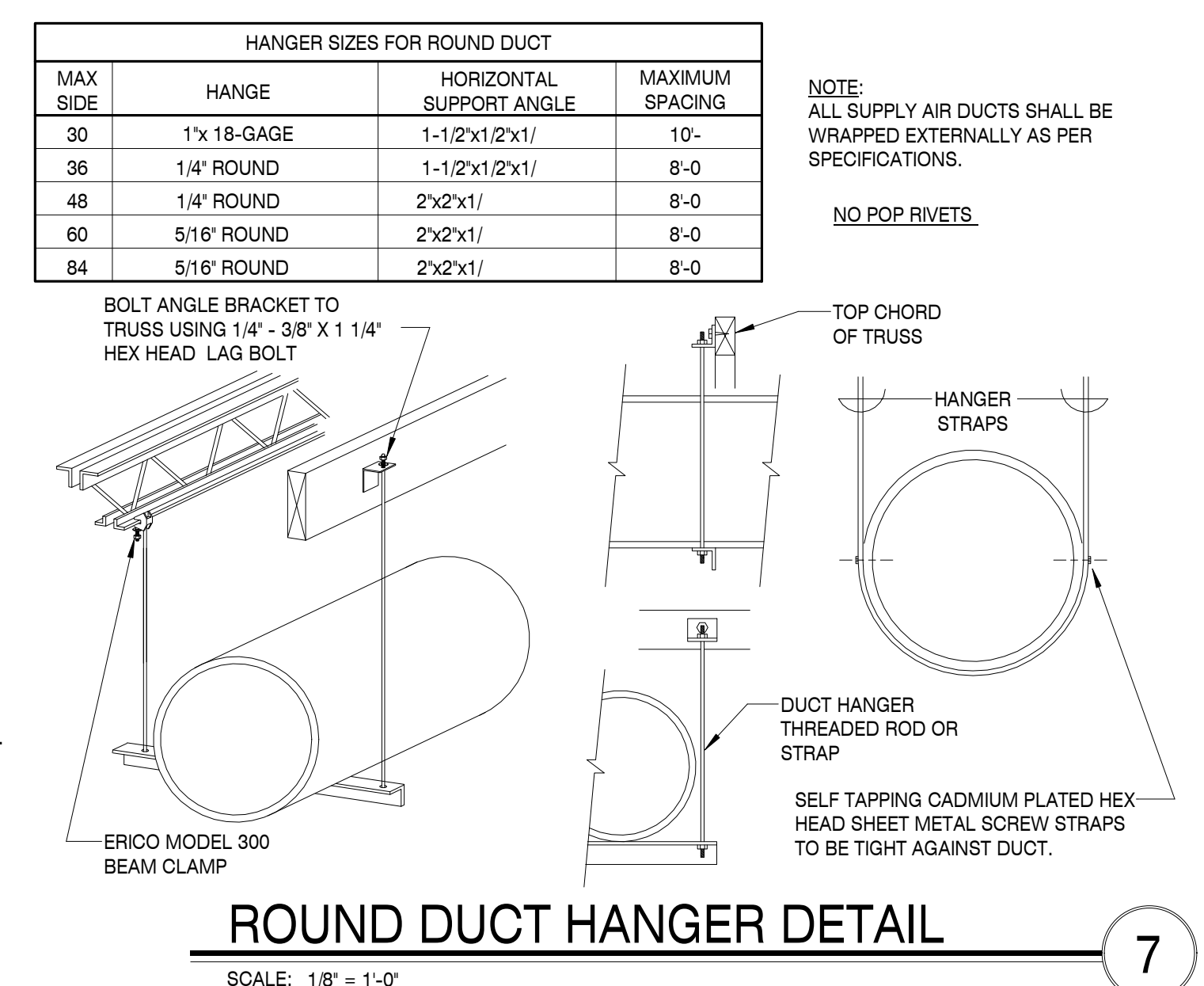
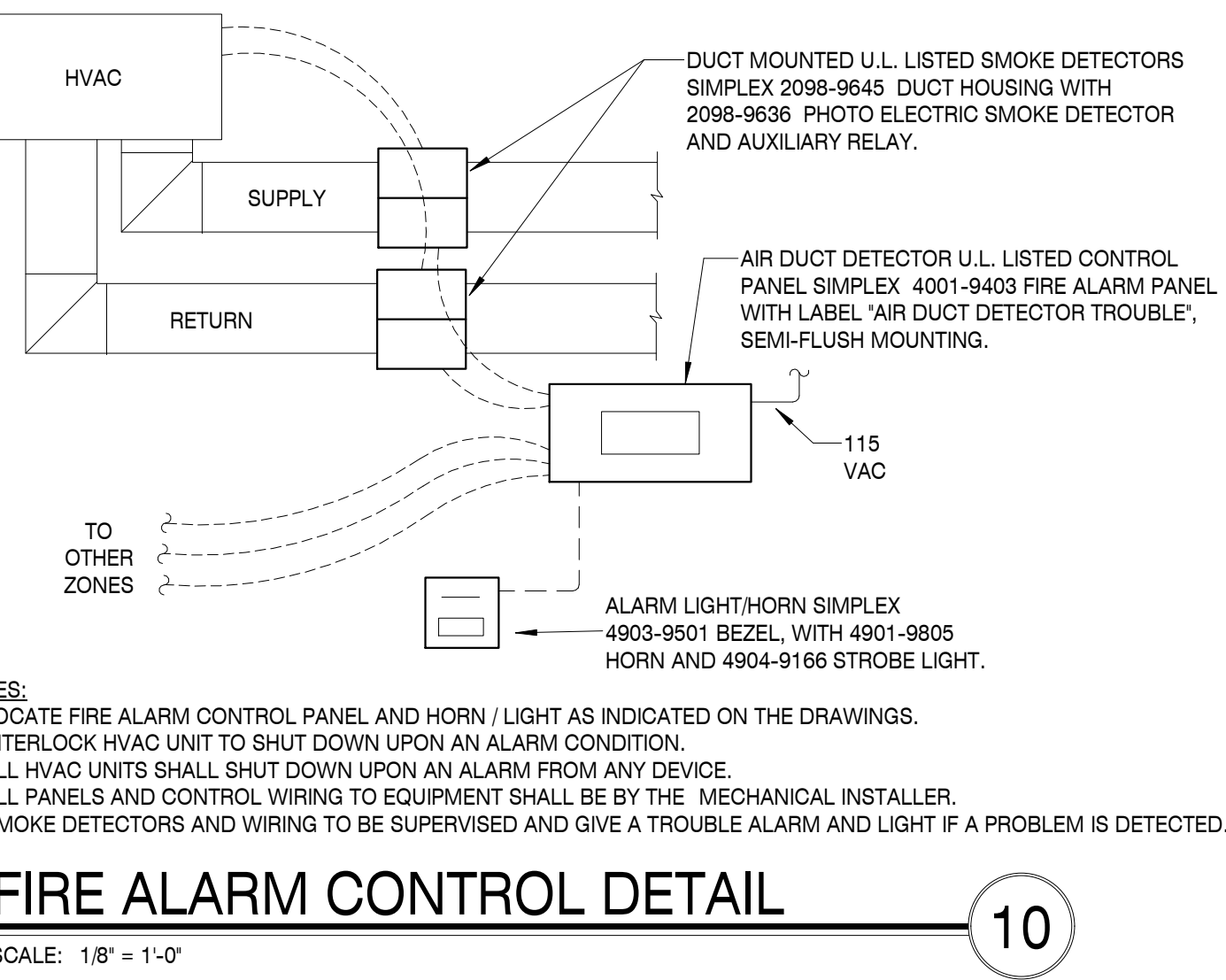
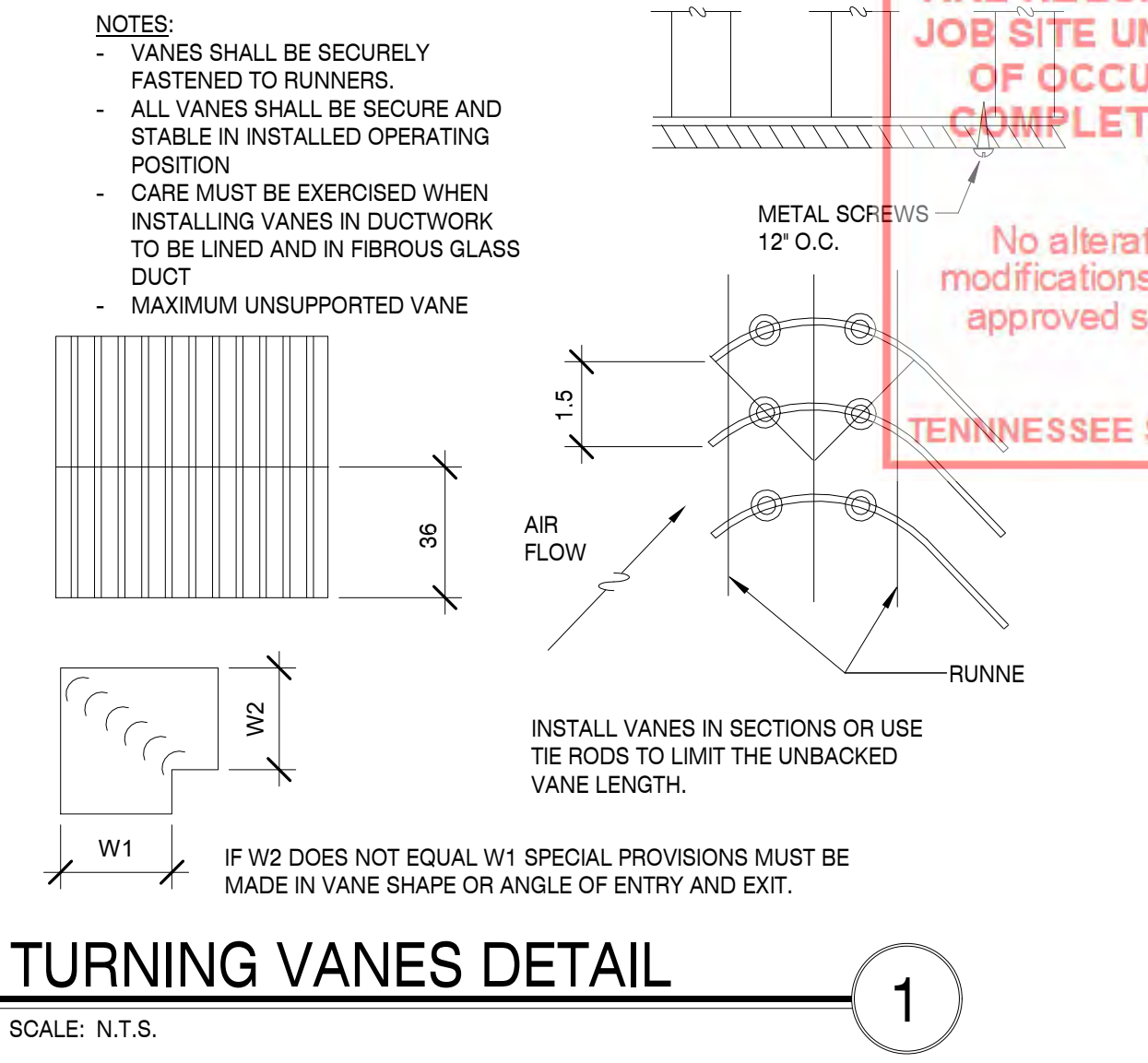
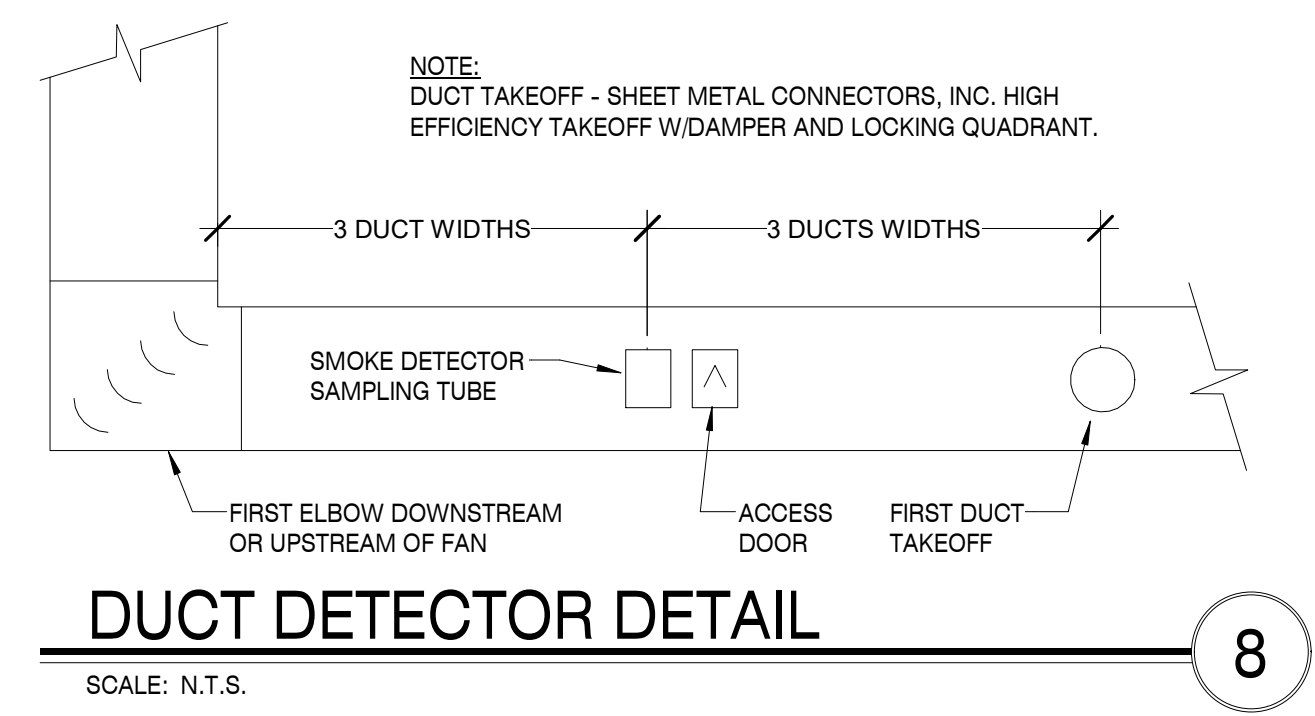
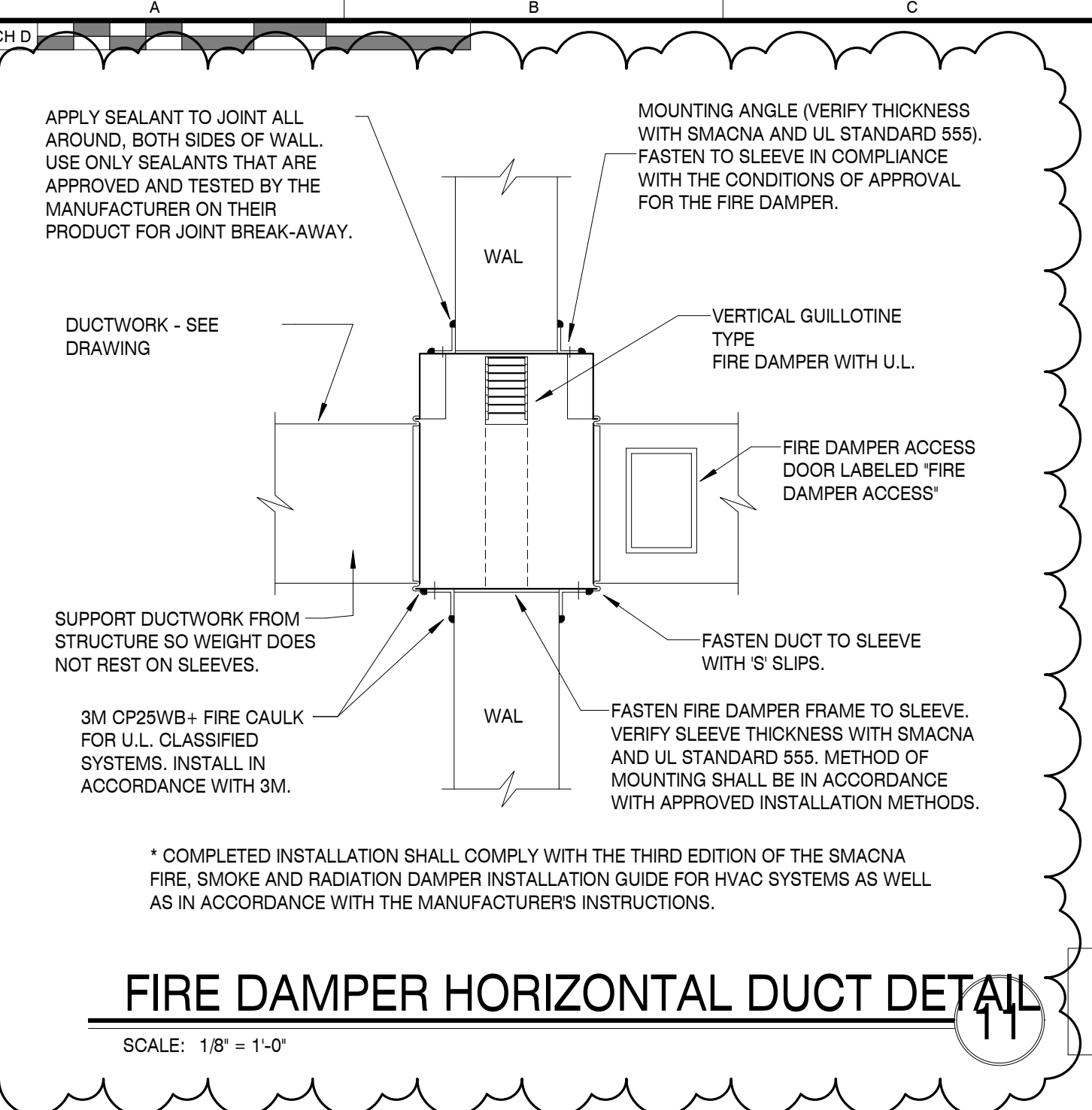
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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

FOR REVIEW ONLY

FOR PERMITTING ONLY

SCHEMATIC DESIGN

DESIGN DEVELOPMENT

CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION	REV #1
1	1/28/2024		

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: DRJ

DRAWN BY: DRJ

REVIEWED BY: JCB

SHEET TITLE: HVAC DETAILS

SHEET NO.: M301

1/28/2024 1:27:20 PM
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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

PLUMBING	
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	HOT WATER
	HOT WATER
	FILTERED
	SANITARY DRAIN
	VENT
	LIQUID
	AI
	CONDENSATE
	OXYGE
	NITROUS
	VACUU
	GREASE WASTE
	ACID
	ACID
	STORM
	ROOF
	RAIN WATER
	FLOOR
	FLOOR
	HUB
	VENT THRU
	CLEAN OUT IN
	CLEAN OUT IN EXPOSED ABOVE CEILING
	CLEAN OUT IN
	WATER HAMMER
	HOSE
	SUPPLY STOP ZURN
	PIPE TURNING
	PIPE TURNING
	BALL
	BALANCING
	PRESSURE REDUCING
	REDUCED PRESSURE BACKFLOW PREVENTER
	STRAINE
	THERMOMET
	GAUGE
	GATE
	CHECK
	UNIO
	VACUUM
	CONNECT TO
	GAS
	AIR
	LP
	CIRCULATING

PLUMBING
<p>GENERAL</p> <p>A. SCOPE: FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF ALL PLUMBING WORK REQUIRED ON THE DRAWINGS AND AS SPECIFIED HEREIN.</p> <p>B. WORK REQUIRED: IN GENERAL, THE WORK CONSISTS OF, BUT IS NOT LIMITED TO THE FOLLOWING:</p> <ol style="list-style-type: none"> DOMESTIC WATER SYSTEM CONNECTING TO EXISTING UTILITY SANITARY SEWER SYSTEM CONNECTING TO EXISTING UTILITY HOT WATER PIPING SYSTEM PLUMBING FIXTURES CONNECTION TO KITCHEN EQUIPMENT <p>C. PERMITS, ORDINANCES, AND INSPECTIONS:</p> <ol style="list-style-type: none"> OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED. DELIVER TO ARCHITECT, CERTIFICATES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, STATE, OR NATIONAL ORDINANCES AND CODES. EFFORT HAS BEEN MADE TO MEET OR EXCEED REQUIREMENTS. THE CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS TO MEET THESE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER. <p>D. INSTRUCTIONS AND INSTRUCTION BOOKLETS: THE CONTRACTOR SHALL INSTRUCT THE OWNER REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. FURNISH LITERATURE PROVIDED BY THE MANUFACTURER. PRINTED INSTRUCTIONS AND MAINTENANCE DATA SHALL BE BOUND WITH COVER IN DUPLICATE AND DELIVERED TO THE ARCHITECT.</p> <p>E. SUBMITTAL DATA: SUBMIT FOR APPROVAL, FIVE (5) COPIES, OF THE EQUIPMENT BROCHURES, TECHNICAL DATA AND/OR SHOP DRAWINGS.</p> <p>F. PRODUCTS:</p> <p>A. ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND COMPLY WITH LATEST ASTM SPECIFICATIONS AND STANDARDS RELATING TO SUCH MATERIALS.</p> <p>B. WATER PIPING:</p> <ol style="list-style-type: none"> FURNISH AND INSTALL DIELECTRIC OR ISOLATION FITTINGS AT ALL POINTS WHERE COPPER PIPE CONNECTS TO WROUGHT IRON OR STEEL PIPE. EXPOSED PIPE IN TOILET ROOMS: CHROME PLATED BRASS, AMERICAN BRASS COMPANY, OR EQUIVALENT. FURNISH AND INSTALL CHROME WALL PLATES. PIPING UNDER FLOOR SLAB SHALL BE TYPE K SOFT TEMPER COPPER TUBING ASTM B-88. NO JOINTS SHALL BE PERMITTED UNDER FLOOR SLAB. PIPING ABOVE FLOOR SLAB SHALL BE TYPE L HARD DRAWN COPPER TUBING ASTM B-88 USE WROUGHT COPPER SWEAT FITTINGS. <p>C. SANITARY WASTE, AND VENT PIPING: PIPING SHALL BE CAST IRON NO HUB DWV PIPE AND FITTINGS ABOVE GRADE MEETING ASTM A 889 OR CISPI 301 STANDARDS. BELOW GRADE PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC MEETING ASTM D 2665 STANDARDS.</p> <p>D. PIPE HANGERS: ADJUSTABLE WROUGHT CLEVIS TYPE HANGER AND RODS; GRINNELL COMPANY OR EQUIVALENT.</p> <p>E. CLEANOUTS:</p> <ol style="list-style-type: none"> FLOOR CLEANOUTS FOR SOIL AND WASTE LINES SHALL HAVE BODIES OF STANDARD PIPE SIZES AS MANUFACTURED BY ZURN OR EQUIVALENT. WALL CLEANOUTS FOR SOIL AND WASTE LINES SHALL HAVE BODIES OF STANDARD PIPE SIZES AS MANUFACTURED BY ZURN OR EQUIVALENT. <p>F. VALVES:</p> <ol style="list-style-type: none"> BUTTERFLY VALVES 2 1/2" AND LARGER. BALL VALVES 2" AND SMALLER. UNIONS SHALL HAVE BRASS TO METAL JOINT SEAL. <p>G. ESCUTCHEON PLATES: PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE EXPOSED PIPE PASSES THROUGH WALLS, FLOORS, OR CEILING IN FINISHED AREAS. SEAL ALL PIPE PENETRATIONS WITH FIRE STOP AS REQUIRED, DRYWALL MUD OR GROUT TO MATCH ADJACENT WALL.</p> <p>H. PIPE INSULATION:</p> <ol style="list-style-type: none"> ALL HOT WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1" FIBERGLASS, LOW PRESSURE INSULATION WITH WHITE UNIVERSAL JACKET. APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ALL COLD WATER PIPE ABOVE GRADE SHALL BE INSULATED WITH 1/2" FIBERGLASS AS ABOVE. <p>I. WALL HYDRANT: "FROST PROOF" TYPE WITH VACUUM BREAKER ON ALL HOSE BIBS</p> <p>J. FIXTURES:</p> <ol style="list-style-type: none"> FURNISH AND INSTALL ALL PLUMBING FIXTURES INDICATED ON DRAWINGS. FIXTURES SHALL BE AMERICAN STANDARD, KOHLER, ELIER, OR AS SPECIFIED IN THE PLUMBING FIXTURE SCHEDULE. TRAPS: FOR LAVATORIES AND SINKS: BRASS, CHROME PLATED. PROVIDE DEEP SEAL TRAPS AND TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS. <p>K. HOT WATER HEATERS:</p> <ol style="list-style-type: none"> 99,000 BTUH INPUT AND LESS: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER. 100,000 BTUH TO 199,000 BTUH INPUT: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER, AND SUBMIT A "APPLICATION FOR PERMISSION TO INSTALL" TO THE BOILER UNIT OF THE TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT'S WORKPLACE REGULATIONS AND COMPLIANCE DIVISION (REGISTRATION AND INSPECTION). 200,000 BTUH TO 399,000 BTUH INPUT: CONTRACTOR SHALL MAKE PROVISIONS TO KEEP 18" CLEAR AROUND HEATER, THE HEATER MUST BE ASME CODE COMPLIANT, AND MUST BE FILED FOR REGISTRATION AND INSPECTION.

GENERAL PLUMBING NOTES
<ol style="list-style-type: none"> ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR, IN A FIRST-CLASS AND WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL, AS REQUIRED, FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT. PROOF OF INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. VERIFY LOCATION, SIZE, INVERTS AND ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES. WATER PIPING SHALL BE TYPE "L" COPPER FOR 2 1/2" ABOVE GRADE. ALL UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER WITH NO JOINTS UNDER SLAB. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON NO HUB ABOVE GRADE MEETING ASTM A 889 OR CISPI 301 STANDARDS. BELOW GROUND PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC MEETING ASTM D 2665 STANDARDS. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE COPPER DWV PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING ABOVE GRADE. INSULATE ALL HOT WATER SUPPLY, HOT WATER RETURN, RAINWATER AND CONDENSATE LINES ABOVE GRADE AS FOLLOWS: HOT WATER SUPPLY AND RETURN, 1" THICK FIBERGLASS, RAINWATER LEADERS 1 1/2" THICK FIBERGLASS BLANKET ON DRAIN BODY AND 1" HORIZONTAL RWL. CONCEALED CONDENSATE PIPING 1/2" ARMAFLEX PERFORM. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND MARKED ACCESS PANELS. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AND P.D.I. APPROVED SHOCK ARRESTERS ON MAIN LINES OR RISERS. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL PIPING AND EQUIPMENT CONNECTIONS. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD (HAIR FELT LINING) SUPER STRUT MODEL C/15/16. FILL VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE-RATED FOAM SIMILAR TO CHASE TECHNOLOGY CORP. - CIC PR-855. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF C.O. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED. PROVIDE 1/4" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM THE NEAREST PLUMBING FIXTURE. PROVIDE MINIMUM 3" RADIUS, 1/4" PER FOOT SLOPE AROUND ALL FLOOR DRAINS. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE RATING. ALL ACCESS PANELS MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED. PROVIDE CHROME-PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS - JOSAM 58990 SERIES OR EQUAL. PROVIDE EACH FIXTURE GROUP WITH ISOLATION VALVES, BOTH HOT (110) AND COLD WATER. NO COMBUSTIBLE MATERIALS CAN BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS. PROVIDE BACKFLOW PREVENTER - WILKINS MOD. # 575 OR EQUAL. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE APPROXIMATE ROUTING OF PIPING AND LOCATION OF FIXTURES. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND MAKE MINOR OFFSETS AND ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE FIXTURES LOCATIONS WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR CONNECTIONS TO ALL UTILITY LINES AND PAY ALL FEES AND COSTS FOR CONNECTIONS TO THOSE SERVICES. ALL PIPING SHALL BE RUN IN CONCEALED LOCATIONS EXCEPT WHERE NOTED. PLUMBING FIXTURES SHALL BE FIRST QUALITY VITREOUS CHINA, STAINLESS STEEL OR PLASTIC AS NOTED ON FIXTURE SCHEDULE. ALL FIXTURES SHALL BE RIGIDLY CONNECTED TO THE BUILDING AND SHALL BE CLEANED AND FUNCTIONAL PRIOR TO ACCEPTANCE. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED GRADES. CONTRACTOR SHALL PROVIDE PRESSURE REDUCING VALVE AND REDUCED PRESSURE BACKFLOW PREVENTION VALVE INSIDE BUILDING WHERE SERVICE ENTERS OR AS SHOWN ON THE SITE PLAN. EXPOSED PIPING BELOW FIXTURES SHALL BE CHROME PLATED. PIPING AT FIXTURES IN HANDICAPPED ACCESSIBLE AREAS SHALL BE INSULATED TO PROTECT AGAINST BURNS. ALL BURIED PIPING SHALL BE BEDDED AND COVERED IN SAND, GRAVEL, OR CRUSHED STONE. AFTER COMPLETION OF PIPING TEST POTABLE WATER PIPING TO 125 LBS. PER SQ. INCH AND HOLD FOR 24 HOURS. TEST DRAIN WASTE AND VENT PIPING BY FILLING TO LEVEL OF HIGHEST VENT. AFTER INSTALLATION AND TESTING OF POTABLE WATER PIPING, STERILIZE ALL LINES IN ACCORD WITH CODES AND HEALTH DEPARTMENT REGULATIONS AND FLUSH AND FILL WITH CLEAN WATER. PITCH POTABLE WATER LINES TOWARD DRAINS. INSTALL DRAIN WASTE AND VENT PIPING WITH MINIMUM SLOPES OF 1/4" PER FOOT FOR LINES UP TO 2 1/2" AND 1/8" PER FOOT FOR LINES 3" AND LARGER. PROVIDE A TWO PIPE DIAMETER AIR GAP BETWEEN ALL INDIRECT WASTE AND THE RECEIVER. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE WALLS AND FLOOR CEILING ASSEMBLIES. INSTALL FIRE STOP MATERIAL IN ACCORD WITH U.L. LISTING AT ALL PENETRATIONS. PIPE WATER HEATER RELIEF VALVE TO EXTERIOR PER CODE OR TO FLOOR DRAIN. PROVIDE MAXITROL SERIES GF OR EQUAL FUEL GAS STRAINER PER NFPA 86 UPSTREAM OF SAFETY SHUTOFF VALVES. (PHONE NUMBER - (248) 356-1400) INSTALL WATER HEATERS IN ACCORD WITH MANUFACTURER'S INSTRUCTION AND ALL STATE AND LOCAL CODE REQUIREMENTS. WATER STORAGE SHALL HAVE A TEMPERATURE OF 140 DEGREES. ALL LAVATORIES AND HAND SINKS SHALL HAVE AN APPROVED ASSE 1070 DEVICE(S) PROVIDING A MAXIMUM OF 110' F FOR HOT WATER. PROVIDE SHOP DRAWINGS FOR APPROVAL. ALL FOOD RELATED EQUIPMENT WITH DRAIN LINES, E.G., FOOD PREPARATION SINKS, WAREWASH SINKS, ETC. WASTE THROUGH A TWO PIPE DIAMETER AIR GAP OR APPROVED AIR BREAK. WATER HEATER/BOILER POP-OFF LINES; ICE MACHINE AND ICE BIN MELTWATER DRAIN LINES, WATER FILTER/TREATMENT EQUIPMENT DRAIN LINES, AND SIMILAR DRAINS FROM EQUIPMENT USING DOMESTIC WATER (INCLUDING DIPPER WELLS) MUST HAVE A TWO PIPE DIAMETER AIR GAP AT THE SEWER. EQUIPMENT SUCH AS DIPPER WELLS, STEAMERS, WOK TABLE FLUSH SYSTEMS, AND SIMILAR DEVICES WITH THE POTENTIAL FOR SUBMERGED INLETS, ETC. MUST HAVE AN APPROVED TWO PIPE DIAMETER AIR GAP OR DUAL CHECK VALVE MEETING ASSE STANDARD 1012, 1024, OR EQUIVALENT INSTALLED ON THE POTABLE WATER SUPPLY. ALL SANITARY AND GREASE WASTE PIPING IN AND/OR BELOW KITCHEN AREAS SHALL BE CAST

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

FOR REVIEW ONLY

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SCHEMATIC DESIGN

DESIGN DEVELOPMENT

CONSTRUCTION BIDDING

CONSTRUCTION DOCUMENTS

AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: DRJ

DRAWN BY: DRJ

REVIEWED BY: JCB

SHEET TITLE: PLUMBING LEGEND AND NOTES

SHEET NO.: P001

File Path: D:\Projects\2023-10-31-01\Clinton High School Welding Building\07_220042-02_Mechanical_P001.rvt
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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

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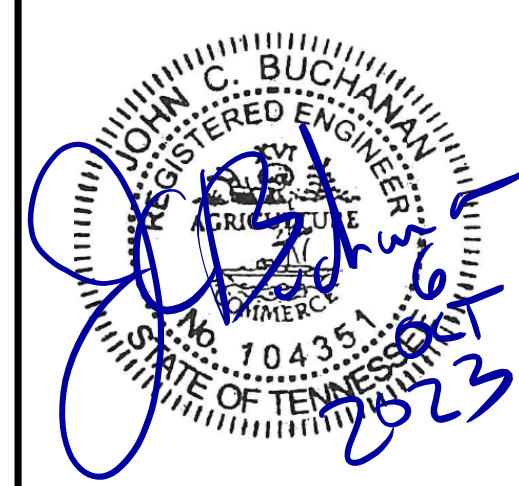
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
 411 DOUGLAS LN
 CLINTON, TN 37716

PROJECT NO.: **220042-02**

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REVISION INFORMATION

NO.	DATE	DESCRIPTION

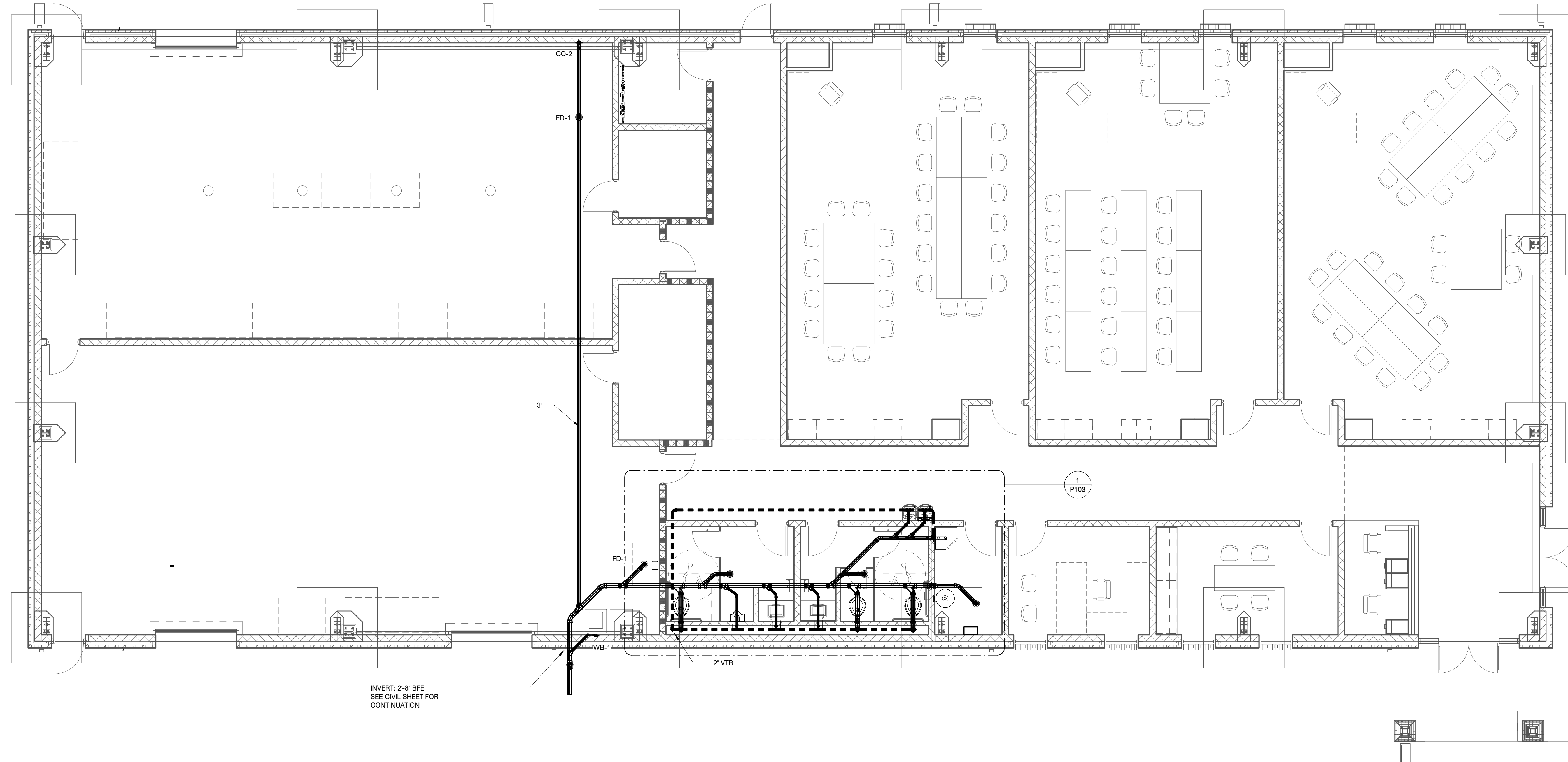
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: DRJ
 DRAWN BY: DRJ
 REVIEWED BY: JCB
 SHEET TITLE:

FLOOR PLAN - SANITARY

SHEET NO.: **P101**



INVERT: 2'-8" BFE
 SEE CIVIL SHEET FOR CONTINUATION

FIRST FLOOR PLAN - SANITARY

SCALE: 3/16" = 1'-0"

1

File Path: \\mbi\p101-02_Clinton High School Welding Building\07_220042-02_Mechanical_P101.rvt
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PROJECT # 2023-10-31-01
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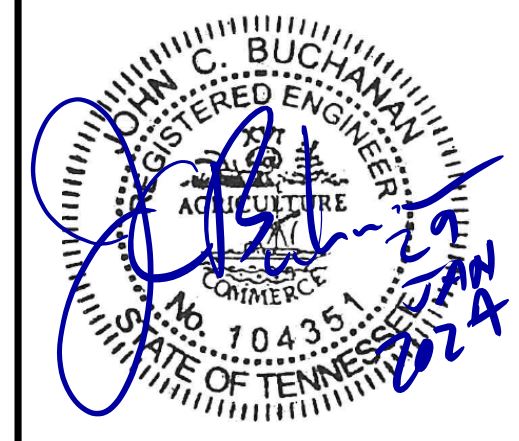
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PU-2	PACKAGE UNIT - CLASSROOM 104	60
PU-3	PACKAGE UNIT - CLASSROOM 108	60
PU-4	PACKAGE UNIT - HALLWAY	60
GUH-1	UNIT HEATER	30
GUH-1	UNIT HEATER	30
GUH-1	UNIT HEATER	30
GUH-1	UNIT HEATER	30
TOTAL:		360

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 CLINTON, TN 37716
 PROJECT NO.: 220042-02

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REVISION INFORMATION

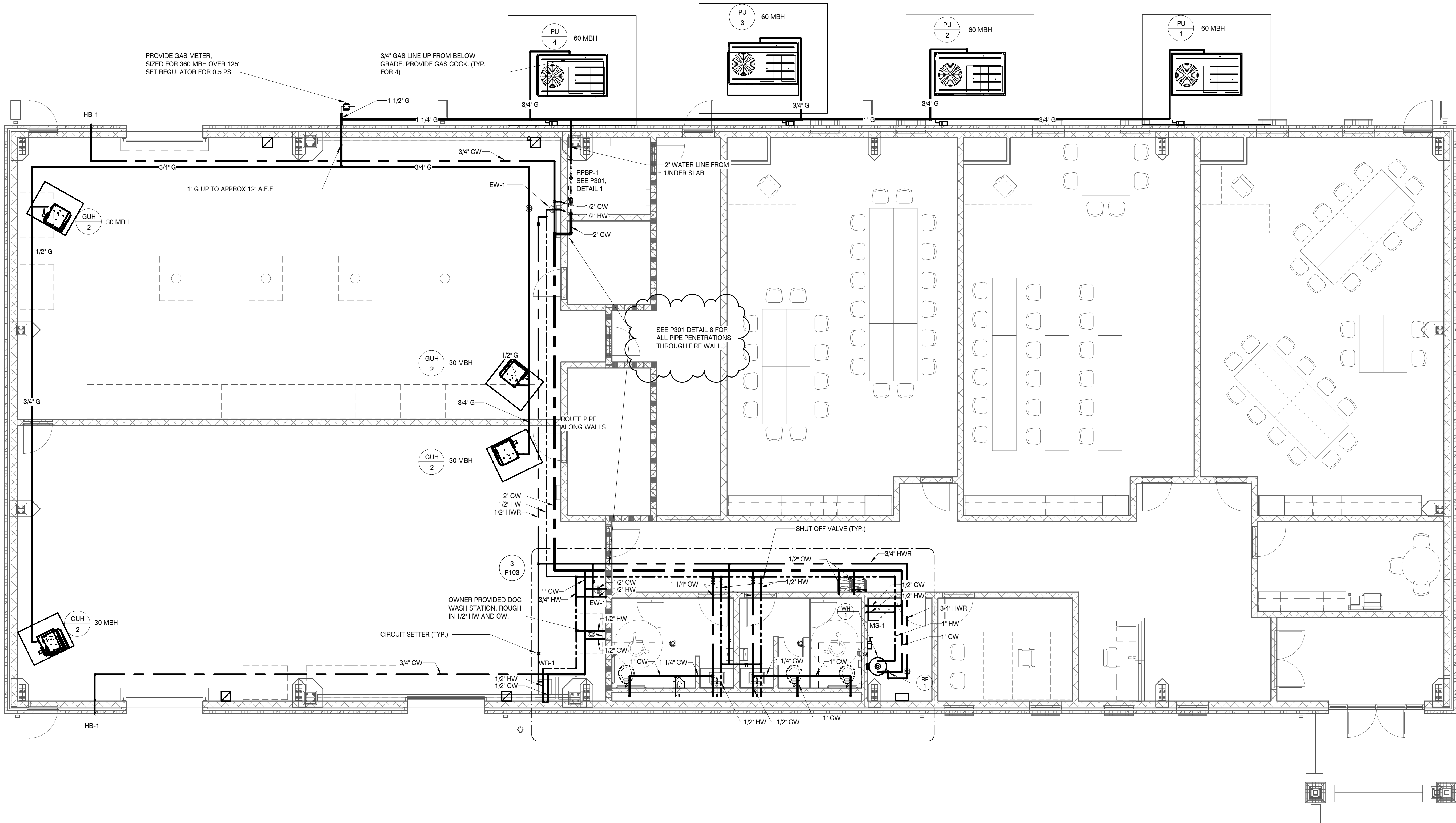
NO.	DATE	DESCRIPTION	REV #1
1	1/28/2024		

KEY PLAN

SHEET INFORMATION
 SHEET ISSUED: 10/06/2023
 DESIGNED BY: DRJ
 DRAWN BY: DRJ
 REVIEWED BY: JCB
 SHEET TITLE:

FLOOR PLAN - WATER
 SHEET NO.:

P102



FLOOR PLAN - WATER & GAS

SCALE: 3/16" = 1'-0"

1

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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

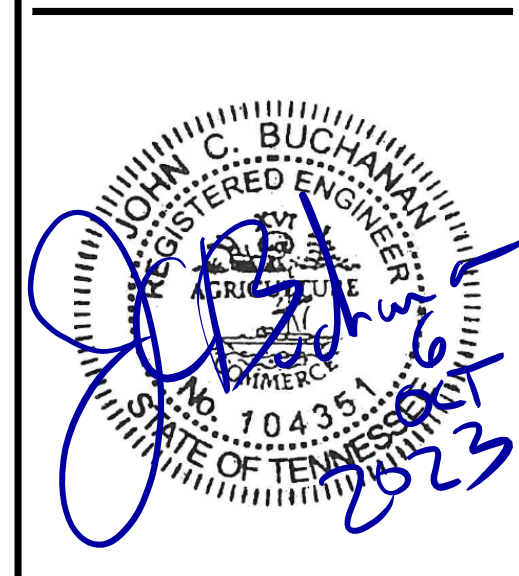
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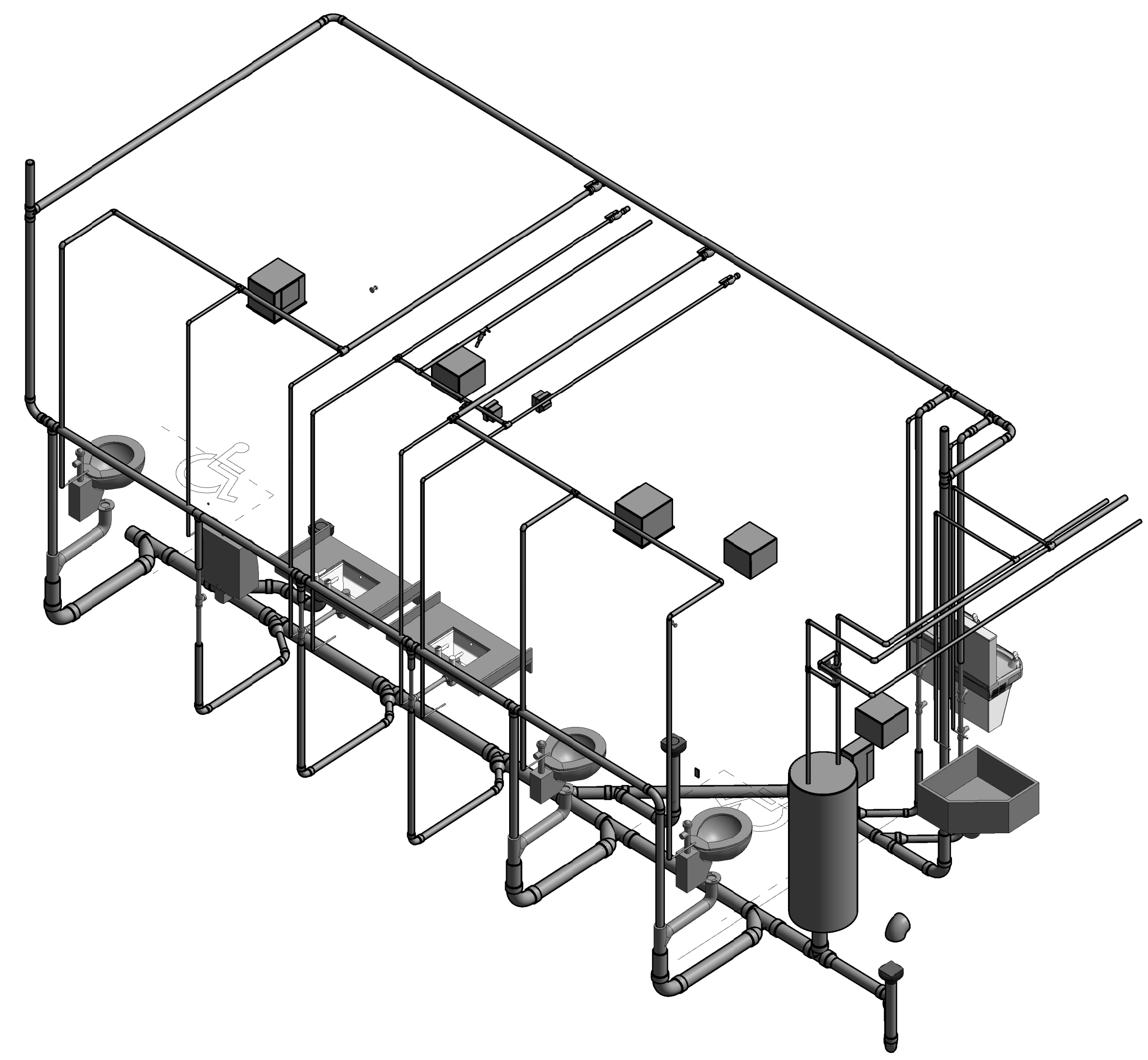
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: DRJ
 DRAWN BY: DRJ
 REVIEWED BY: JCB
 SHEET TITLE:

ENLARGED BATHROOM PLAN

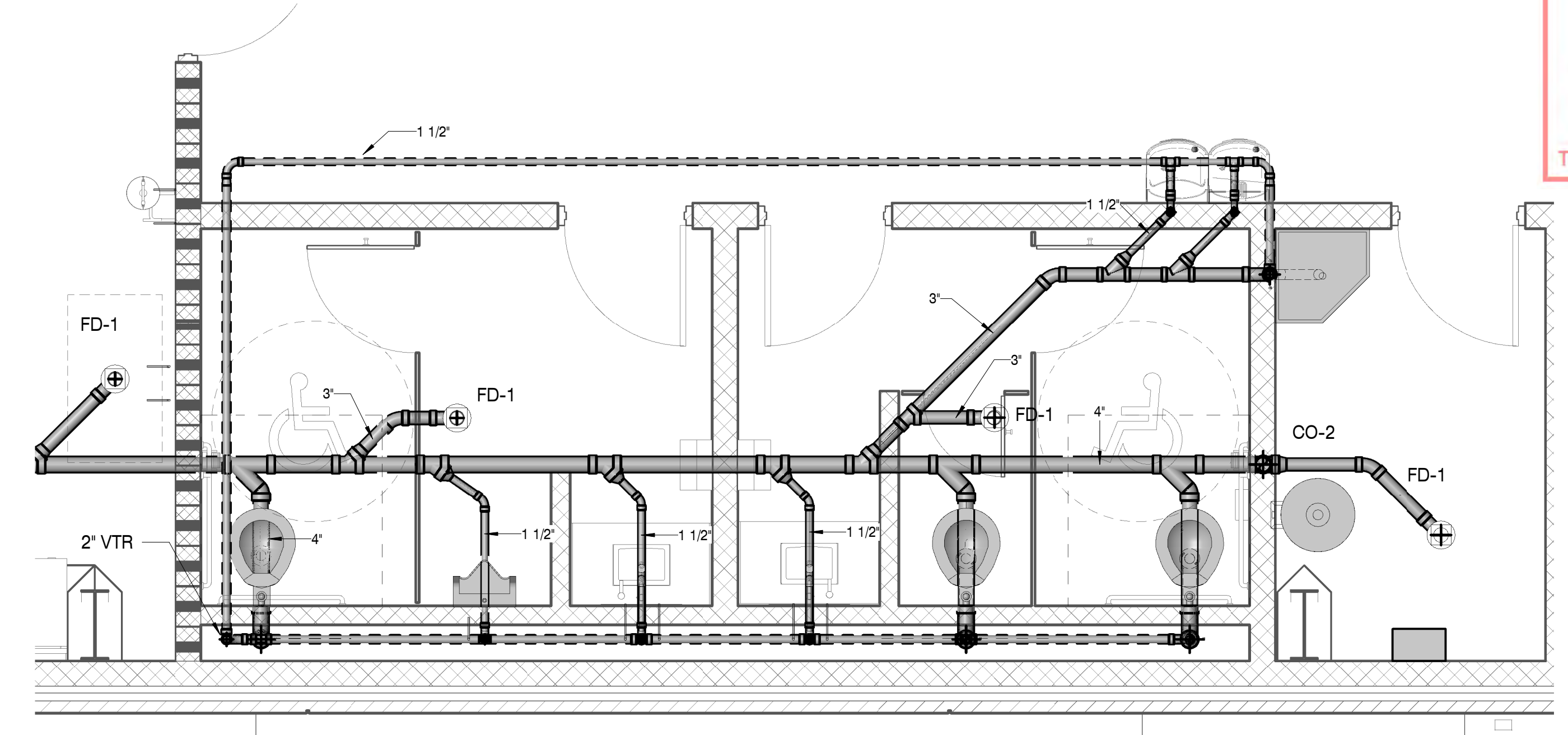
SHEET NO.: P103



BATHROOM RISER

SCALE:

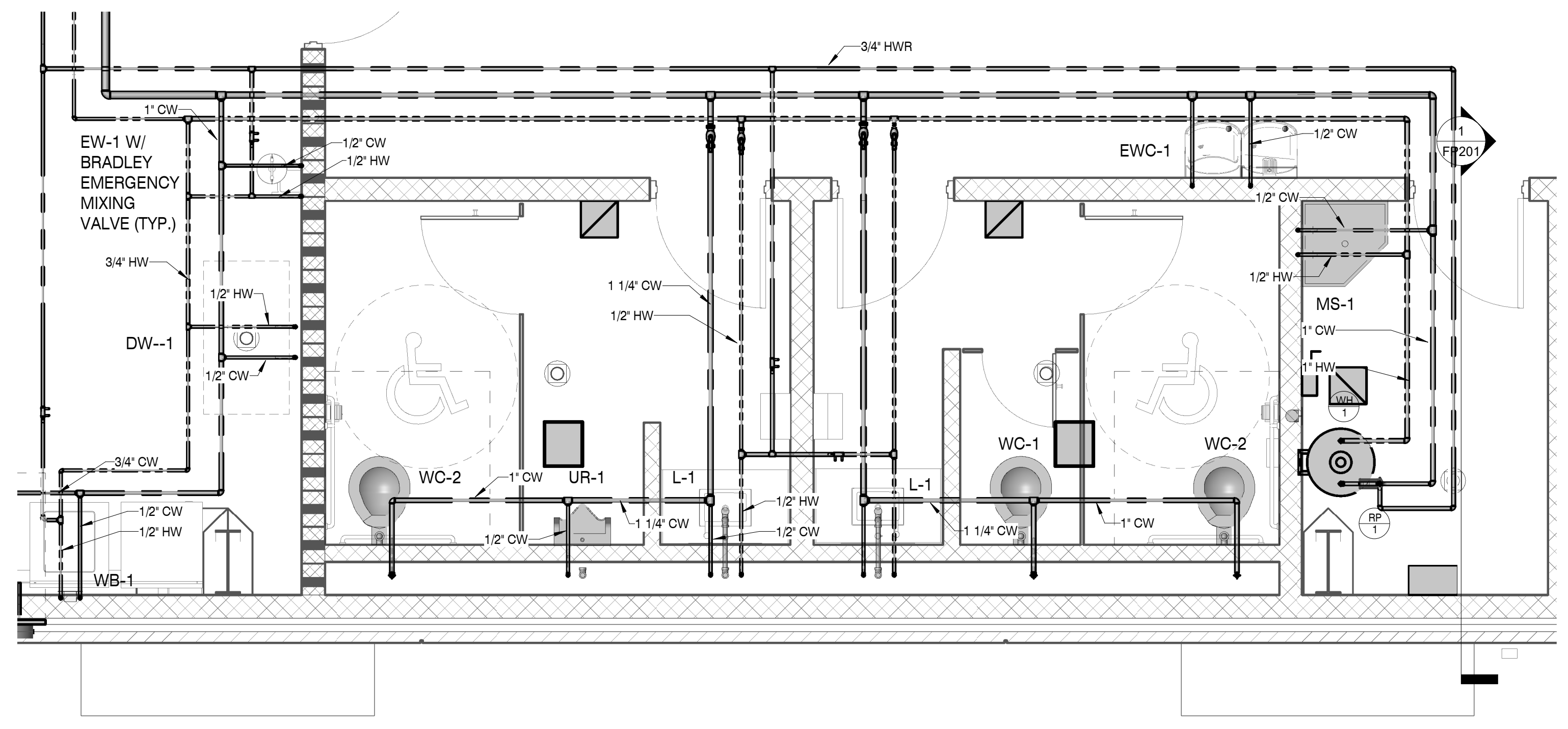
2



BATHROOM SANITARY PLAN

SCALE: 3/8" = 1'-0"

1



BATHROOM WATER PLAN

SCALE: 3/8" = 1'-0"

3

P:\Projects\2023\10-31-01_Clinton High School Welding Building\07_220042-02_Mechanical_P103.rvt
 10/06/2023 09:37:32 AM

PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

THESE PLANS AND SPECIFICATIONS ARE REQUIRED TO BE KEPT ON THE JOB SITE UNTIL A FINAL CERTIFICATE OF OCCUPANCY OR PROJECT COMPLETION FORM IS ISSUED BY THIS OFFICE.

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TENNESSEE STATE FIRE MARSHAL'S OFFICE

PLUMBING FIXTURE SCHEDULE

**TRIM PRODUCTS (STOPS, PTRAPS, SUPPLIES ETC.) SHALL BE FROM SAME MANUFACTURER. ANY CONFLICTS WITH THE SCHEDULE AND THE CONSTRUCTION DOCUMENTS SHALL BE DIRECTED TO THE ENGINEER OF RECORD A MIN THREE (3) DAYS BEFORE BID DATE. CONTRACTOR SHALL PROVIDE A MIN OF THREE (3) COPIES OF SHOP DRAWINGS FOR APPROVAL. SEE SPECIFICATIONS

EQUAL PRODUCTS AND ALTERNATE MANUFACTURERS LISTED SHALL ALSO BE CONSIDERED: SLOAN, JOSAM, LEONARD, GUARDIAN, DURA-TRENCH, OASIS, HALSEY-TAYLOR, WILLOUGHBY

ITEM	DESCRIPTION	SPECIFICATION	OW (inch)	HW (inch)	W (inch)	V (inch)
RPBP-1	BACKFLOW PREVENTER PRESS. RED. VALVE PRESSURE GAUGE	WILKINS, MODEL # 975XL2TCUSAG REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER "Y" PATTERN BODY, PROVIDED WITH "Y" STAINER ON INLET SIDE OF DEVICE AND PROVIDED WITH AIRGAP AND TEST COCKS FACING UP FOR TESTER. INSTALLED HEIGHT MIN 4'-0" A.F.F. MAX 7'-0" A.F.F. WILKINS, MODEL # 500 SERIES BRONZE BODY CONSTRUCTION SERVICEABLE INLINE, CAN BE INSTALLED IN ANY POSITION. INSTALL ON INLET SIDE OF RP2 BACKFLOW DEVICE. WILKINS, MODEL # 2004-25-300, 0-300 POUND GAUGE TO BE INSTALLED ON INLET AND OUTLET SIDE OF PRV.				
UR-1	URINAL - HC VALVE CARRIER HAMMER ARRESTOR	ZURN, Z5755-U OMNI-FLOW .125 TO 1GPF WALL MOUNTED TOP SPUD ASYMMETRIC BACK WALL URINAL WITH INTEGRAL P-TRAP AND VANDAL RESISTANT OUTLET STRAINER ZURN, ZER6003AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO HAVE 6VDC MOTOR WITH OVERRIDE BUTTON ZURN, MODEL #ZR-1222 SUPPORT W/BEARING PLATE ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING 'A' (1-11 FU)	3/4'	2'	1-1/2'	
WC-1	WATER CLOSET CLOSET FLANGE VALVE SEAT HAMMER ARRESTOR	ZURN, Z5655-BWL1 1.6GPF SIPHON JET FLUSH ACTION FLOOR MOUNTED STANDARD HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY ZURN MODEL # CF2982 CAST IRON TORQUE SET CLOSET FLANGE WITH INTEGRAL TEST CAP ZURN, ZER6000AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO HAVE 6VDC MOTOR WITH OVERRIDE BUTTON ZURN, Z5955SS-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING 'A' (1-11 FU)	1'	4'	2'	
WC-2	WATER CLOSET CLOSET FLANGE VALVE SEAT HAMMER ARRESTOR	ZURN, Z5665-BWL1 1.6GPF ADA SIPHON JET FLUSH ACTION FLOOR MOUNTED ADA HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY ZURN MODEL # CF2982 CAST IRON TORQUE SET CLOSET FLANGE WITH INTEGRAL TEST CAP ZURN, ZER6000AV-WS1-CCP AQUAVANTAGE BATTERY OPERATED SENSOR FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS. SENSOR TO HAVE 6VDC MOTOR WITH OVERRIDE BUTTON ZURN, Z5955SS-EL-STS ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE ZURN, MODEL #Z-1700-100 PLUMBING DRAINAGE INSTITUTE RATING 'A' (1-11 FU)	1'	4'	2'	
WB-1	WASHER BOX	SYMMONS, MODEL #LM-600-F-A LAUNDRY MATE SUPPLY & DRAIN 2" P-TRAP, PROVIDE VACUUM BREAKERS & HOSE CONNECTION WASTE 2", VENT	1/2'	1/2'	2'	1-1/2'

ITEM	DESCRIPTION	SPECIFICATION	OW (inch)	HW (inch)	W (inch)	V (inch)
CO-1	CLEANOUT	ZURN, MODEL #ZN-1400 INTERIOR FINISH FLOOR, 5" ROUND NICKEL BRONZE TOP				
CO-2	CLEANOUT WALL PLATE	ZURN LC, MODEL #CO2413-PVC-ST 3 X 4" WALL CLEANOUT BODY AND PLUG ZURN LC, MODEL #CO2530-SS7 7" ROUND STAINLESS STEEL ACCESS COVER W/ SECURING SCREW.				
EW-1	EMERGENCY EYE WASH UNIT MIXING VALVE TRAP	BRADLEY, MODEL #S19-214EW EMERGENCY EYE WASH UNIT WINLINE FILTER AND DRAIN DOWN EYE WASH SYSTEM BRADLEY, MODEL #S19-2000 EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE WITH COLD WATER BYPASS 2" P-TRAP	1/2'	1/2'		
EW-1	ELEC. WTR. COOLER-HC	ELKAY, MODEL # LZSTL8WSLP BI-LEVEL WALL MOUNTED NON-PRESSURIZED WATER COOLER W/ FLEX GUARD BUBBLE, 3000 GAL FILTER AND BOTTLE FILLER. 1.1 GPM 115V/60HZ 4.0AMP 370 WATTS. COOLER SHALL BE ALL METAL CONSTRUCTION, WATER LINES, REFRIGERANT LINES AND SOLID CONNECTION TO DRAIN. PROVIDE IN LIGHT GRAY	1/2'		1-1/4"	1-1/4"
	SUPPLY CARRIER P-TRAP	ZURN, Z8804-XL-LRLKA-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEON, 1/4 TURN CHROME PLATED STOP AND CHROME PLATED COPPER TUBE SUPPLY LINE PROVIDE WITH APPROPRIATE ZURN CARRIER ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT				
FD-1	FLOOR DRAIN TRAP GUARD TRAP	ZURN,MODEL #ZN415-6S21 GENERAL SERVICE DRAIN WITH 6" SQUARE STRAINER& SEDIMENT BUCKET ZURN, Z1072 ZSHIELD TRAP GUARD ZURN, MODEL #Z-1000-P DEEP SEAL TRAP			3"	1-1/2"
HB-1	HOSE BIBB	ZURN, MODEL #Z-1321-P34-PC-BFP CHROME PLATED HOSE BIBB WITH WHEEL HANDLE AND VACUUM BREAKER. 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION.	3/4"			
L-1A	LAVATORY FAUCET THERMOSTATIC MIXING VALVE DRAIN P-TRAP SUPPLY	ZURN, Z5114 OVAL 20"X17" 4"CC VITREOUS CHINA DROP IN LAVATORY SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HANDLE 4CC LAVATORY FAUCET WITH 1.5GPM AERATOR AND CERAMIC DISC CARTRIDGE SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES	1/2'	1/2'	1-1/4"	1-1/4"
L-1B	LAVATORY FAUCET THERMOSTATIC MIXING VALVE DRAIN P-TRAP SUPPLY TRAP WRAP CARRIER	ZURN, Z5344 20"X18" WALL HUNG 4"CC VITREOUS CHINA CONCEALED ARM LAVATORY SYMMONS, S-20-0-1.5 SYMMETRIX SINGLE HANDLE 4CC LAVATORY FAUCET WITH 1.5GPM AERATOR AND CERAMIC DISC CARTRIDGE SYMMONS, 7-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT ZURN, Z8804-XL-LRLKQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES ZURN, Z8946-1-NT COMBINATION TRAP WRAP KIT WITH ONE TRAP AND TWO SUPPLY PROTECTION WRAPS PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER	1/2'	1/2'	1-1/4"	1-1/4"
LT-1	LAUNDRY TUB FAUCET TRAP AND SUPPLY	ZURN, MODEL # MS2620-F SINGLE BASIN MOLDED STONE LAUNDRY TUB WITH ENAMELED ANGLE LEGS. ZURN, MODEL # Z812-XL-N1 4"CC SOLID BRASS FAUCET WITH 2-1/2" HANDLES AND 6" CAST BRASS SPOUT WITH VACUUM BREAKER. ZURN, MODEL # Z9904.000.0.19.B5.0 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT, 1/2" NOM X 3/8" OD STOPS WITH 20" BRAIDED STAINLESS STEEL SUPPLY LINES AND ESCUTCHEONS.	1/2'	1/2'	1-1/2"	1-1/2"
MS-1	MOP SINK FAUCET TRAP	STERN WILLIAMS, MODEL # HL-1800-T35-T40-D 24" X 24" X 12" TERRAZZO "HILLOW" SQUARE SERVICE SINK W/ISS CAP. PROVIDE 18" HIGH STAINLESS STEEL BACK SPLASH, CAULK EDGES FOR WATER TIGHT SEAL. PROVIDE WITH HOSE AND WALL BRACKET, S.S. MOP HANGER 24" LENGTH WITH 3 SPRING LOADED RUBBER GRIPS ZURN, MODEL # Z841M1-RC SERVICE SINK FAUCET W/VACUUM BREAKER SPOUT AND INTEGRAL 3/4" HOSE THREADED OUTLET, PAIL HOOK AND WALL BRACE. ZURN, MODEL # Z-1000, 3" DEEP SEAL TRAP W/TRAP PRIMER Z-1022	1/2'	1/2'	3"	1-1/2"

WATER HEATER SCHEDULE (ELECTRIC)

DRAWING SYMBOL	STORAGE CAPACITY	NUMBER OF ELEMENTS	KILOWATT PER	VOLTAGE	RECOVERY GPH @ 70° RISE	MANUFACTURER & MODEL #	DIMENSIONS
WH 1	50 GAL.	1	24.0	208/3/60	142	AO SMITH DRE-52-24	21.75" X 55.75"

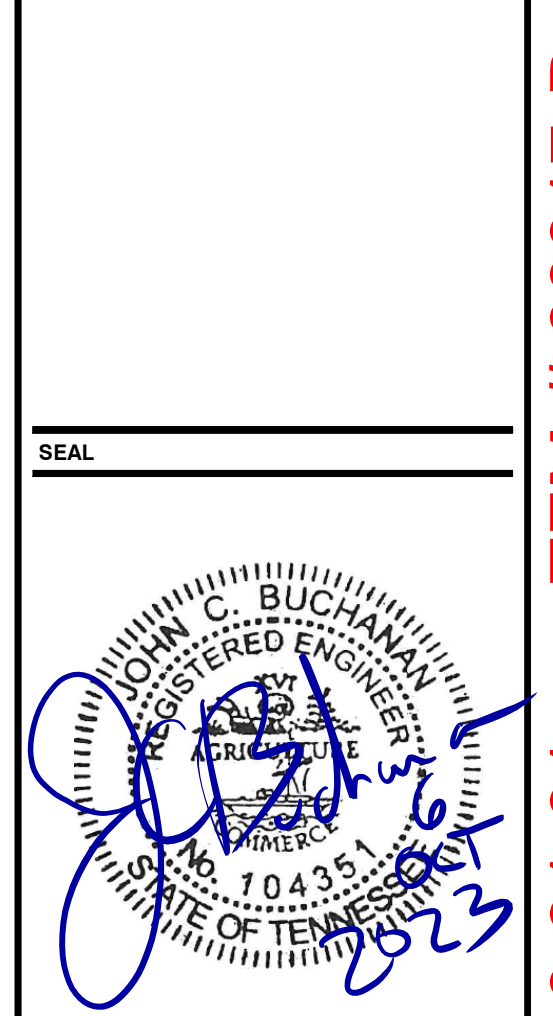
ACCESSORIES AND FEATURES:
 • ALTERNATE MANUFACTURERS: LOCHINVAR, STATE IND.
 • UNIT SHALL BE ASME LISTED
 • PROVIDE ASSE 1016/1017 DEVICE SET AT MAX 110° F
 • NON-SIMULTANEOUS OPERATION

RECIRCULATION PUMP SCHEDULE

DRAWING SYMBOL	HP	VOLTAGE	MOTOR RPM	WEIGHT (LBS.)	MANUFACTURER & MODEL #	SYSTEM
RP 1	1/12	115	2,650	11.6	BELL & GOSSETT PL-30B	HW-RECRIC

ACCESSORIES AND FEATURES:
 • ALL BRONZE CIRCULATOR PUMP
 • PROVIDE WITH FLANGED BALL VALVES ON INLET AND OUTLET.
 • SEE SPECIFICATIONS FOR OTHER PERTINENT INFORMATION.

PHONE: (865) 584-0999
 FAX: (865) 584-6213
 WEB: mbicompanies.com



PROJECT INFORMATION
 PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING
 PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716
 PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE
 FOR REVIEW ONLY
 FOR PERMITTING ONLY
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION BIDDING
 CONSTRUCTION DOCUMENTS
 AS-BUILT RECORD SET

REVISION INFORMATION
 NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION
 SHEET ISSUED: 10/06/2023
 DESIGNED BY: DRJ
 DRAWN BY: DRJ
 REVIEWED BY: JCB
 SHEET TITLE:

PLUMBING SCHEDULES
 SHEET NO.: P201

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 10/10/2023 9:27:23 AM

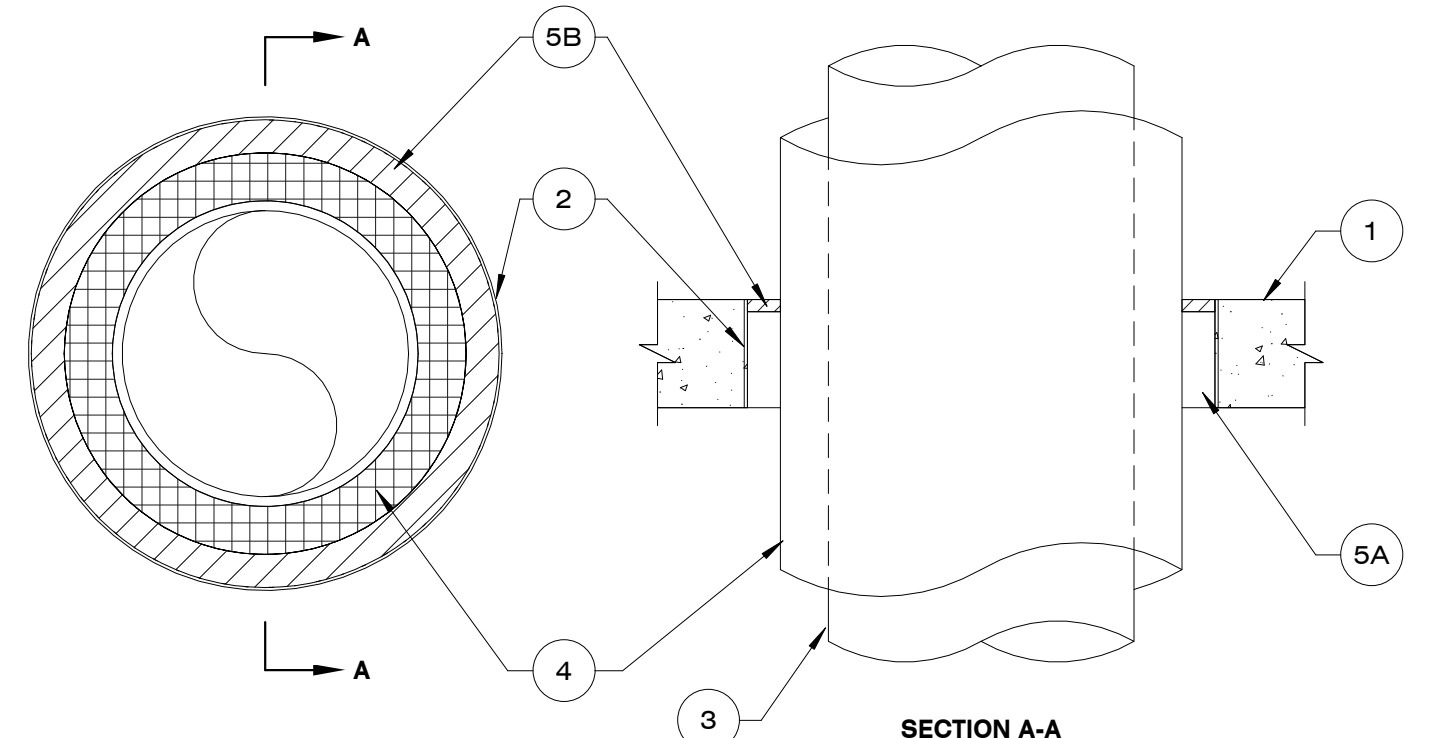
TFM # 00017-D
 PROJECT # 2023-10-31-01
 FIELD SET

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TENNESSEE STATE FIRE MARSHAL'S OFFICE
 299 N. WEISGARBER ROAD
 KNOXVILLE, TN 37919
 PHONE: (865) 584-0999
 FAX: (865) 584-6213
 WEB: mbicompanies.com

System No. C-AJ-5091
 F Rating — 2 Hr
 T Rating — 1 Hr
 L Rating At Ambient — 4 CFM/Sq Ft
 L Rating At 400 F — Less Than 1 CFM/Sq Ft

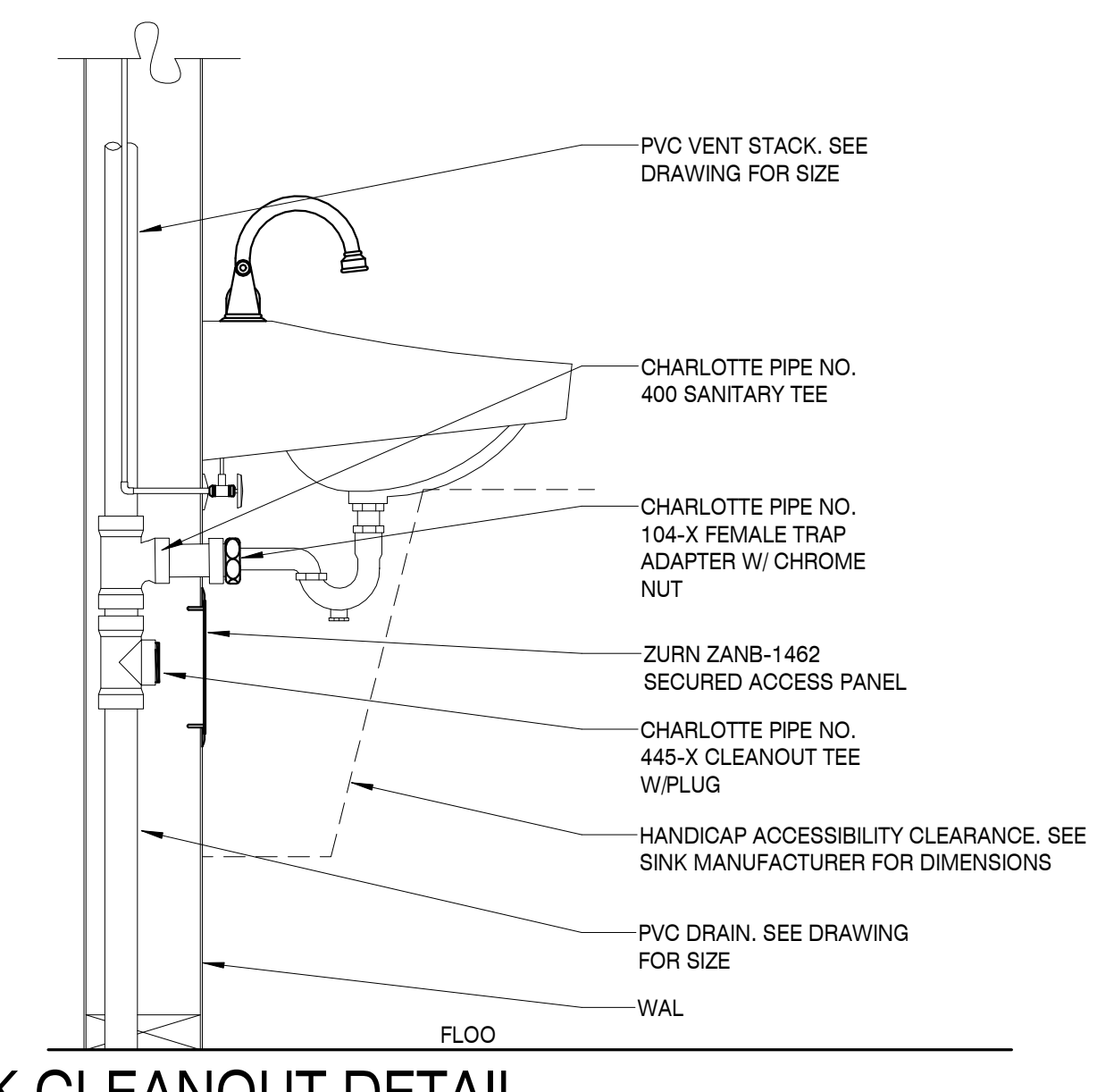


1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 19-1/2 in. See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.
 2. Metallic Sleeve — (Optional) — Nom 20 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - 2A. Sheet Metal Sleeve — (Optional) — Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. above the top surface of the floor.
 - 2B. Sheet Metal Sleeve — (Optional) — Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. above the top surface of the floor.
 3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 - A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 12 in. diam (or smaller) cast or ductile iron pipe.
 - C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
 - D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 4. Pipe Covering — Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. to a max 2-1/4 in. See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed index of 50 or less may be used.
 - 4A. Pipe Covering — (Not Shown) — As an alternate to item 4, max 2 in. thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. The annular space shall be min 1/2 in. to a max 2-1/4 in.
 5. Firestop System — The firestop system shall consist of the following:
 - A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
 *Bearing the UL Classification Mark

FIRE PENETRATION DETAIL

SCALE: N.T.S.

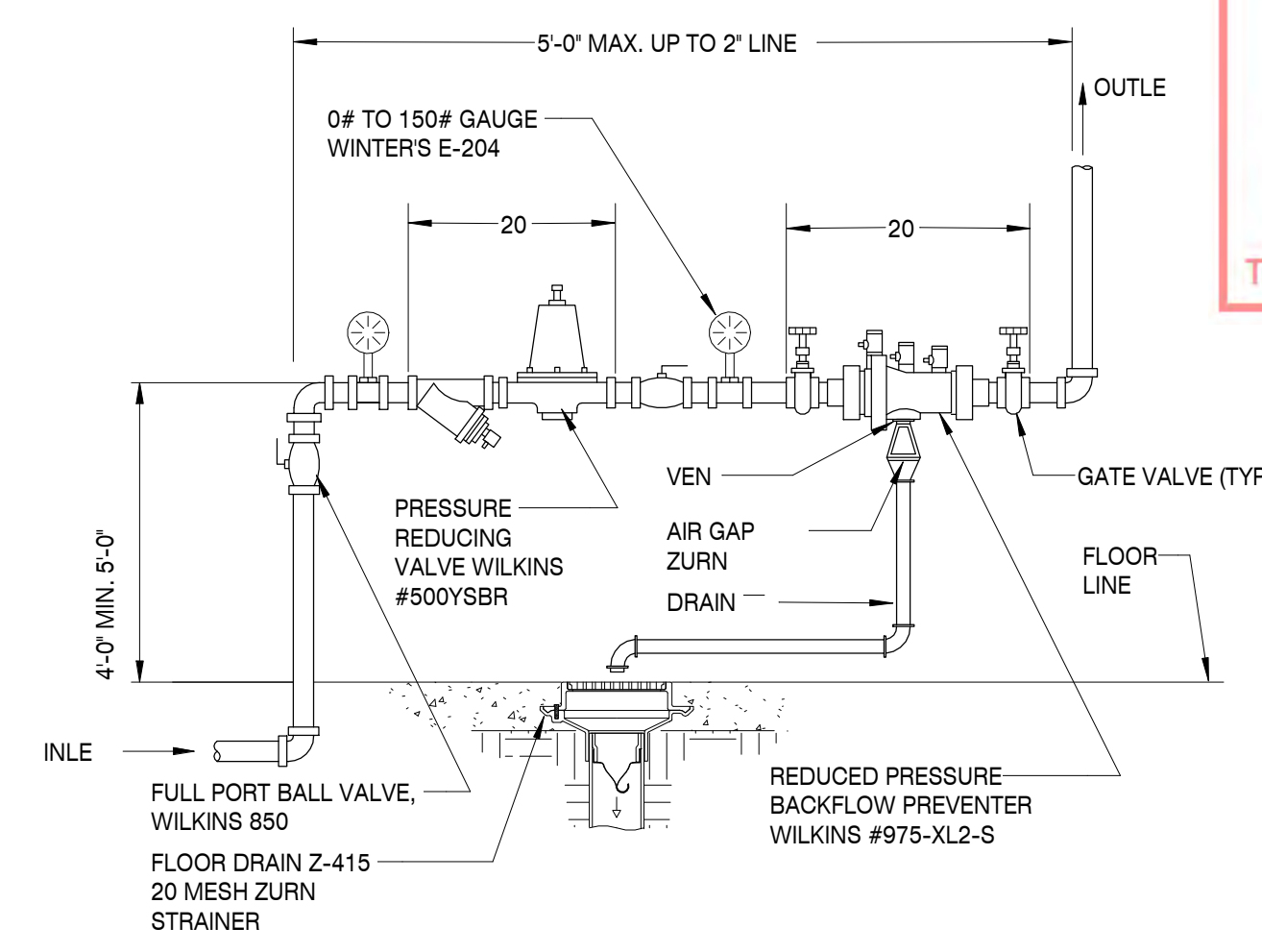
8



STACK CLEANOUT DETAIL

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

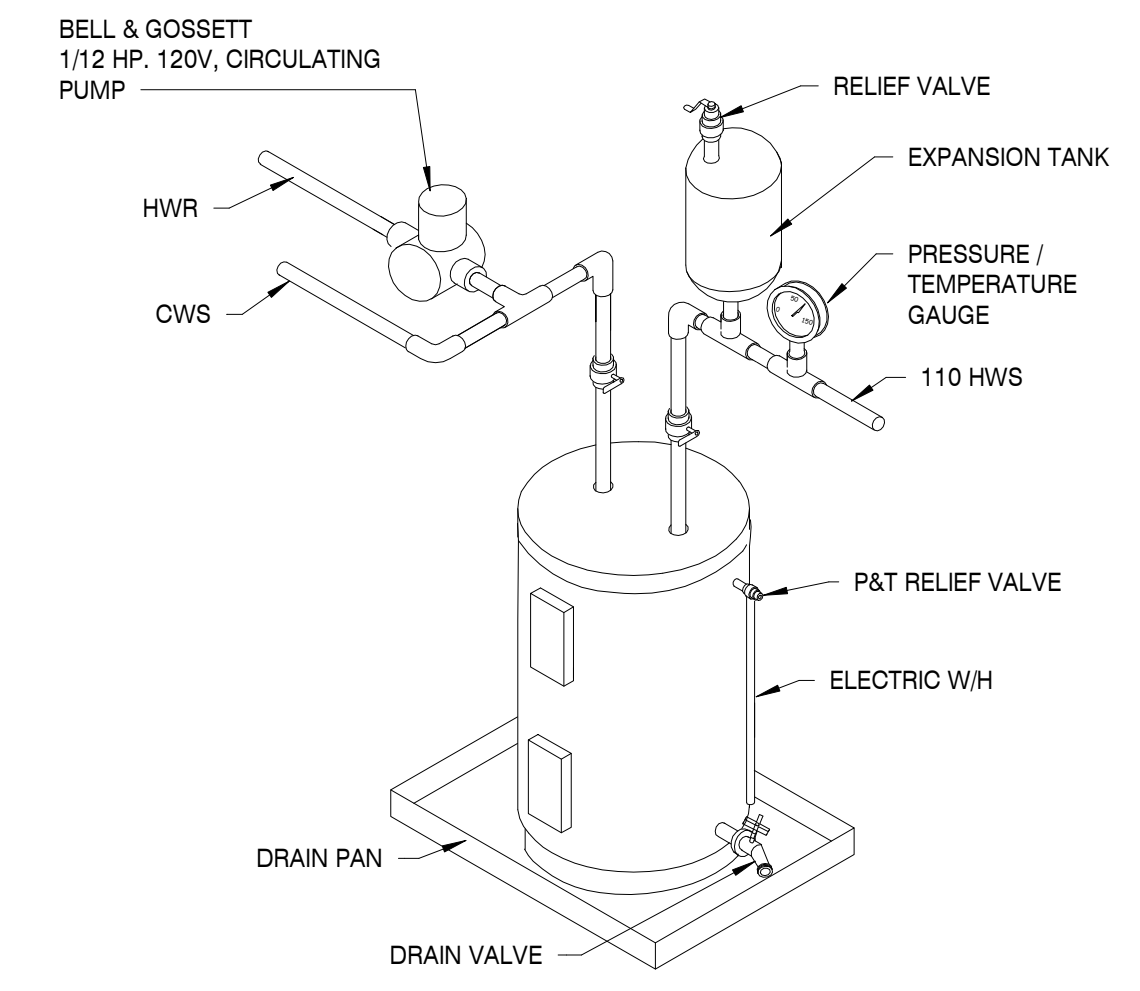
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WATER SERVICE ENTRANCE DETAIL

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

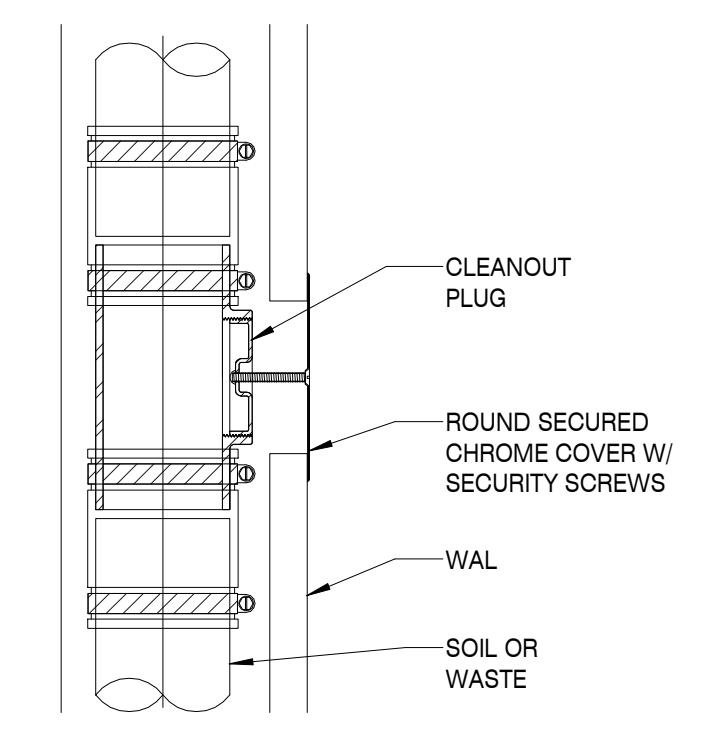
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ELECTRIC WATER HEATER DETAIL

SCALE: N.T.S.

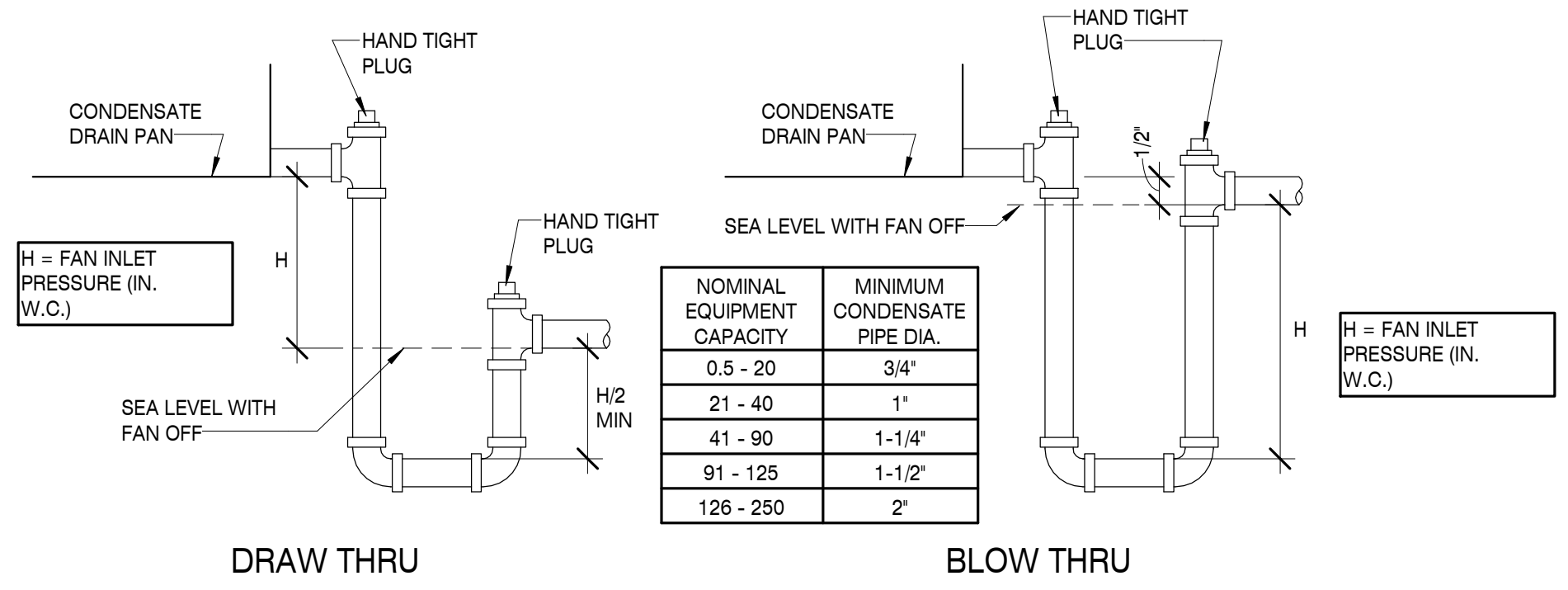
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WALL CLEANOUT

SCALE: N.T.S.

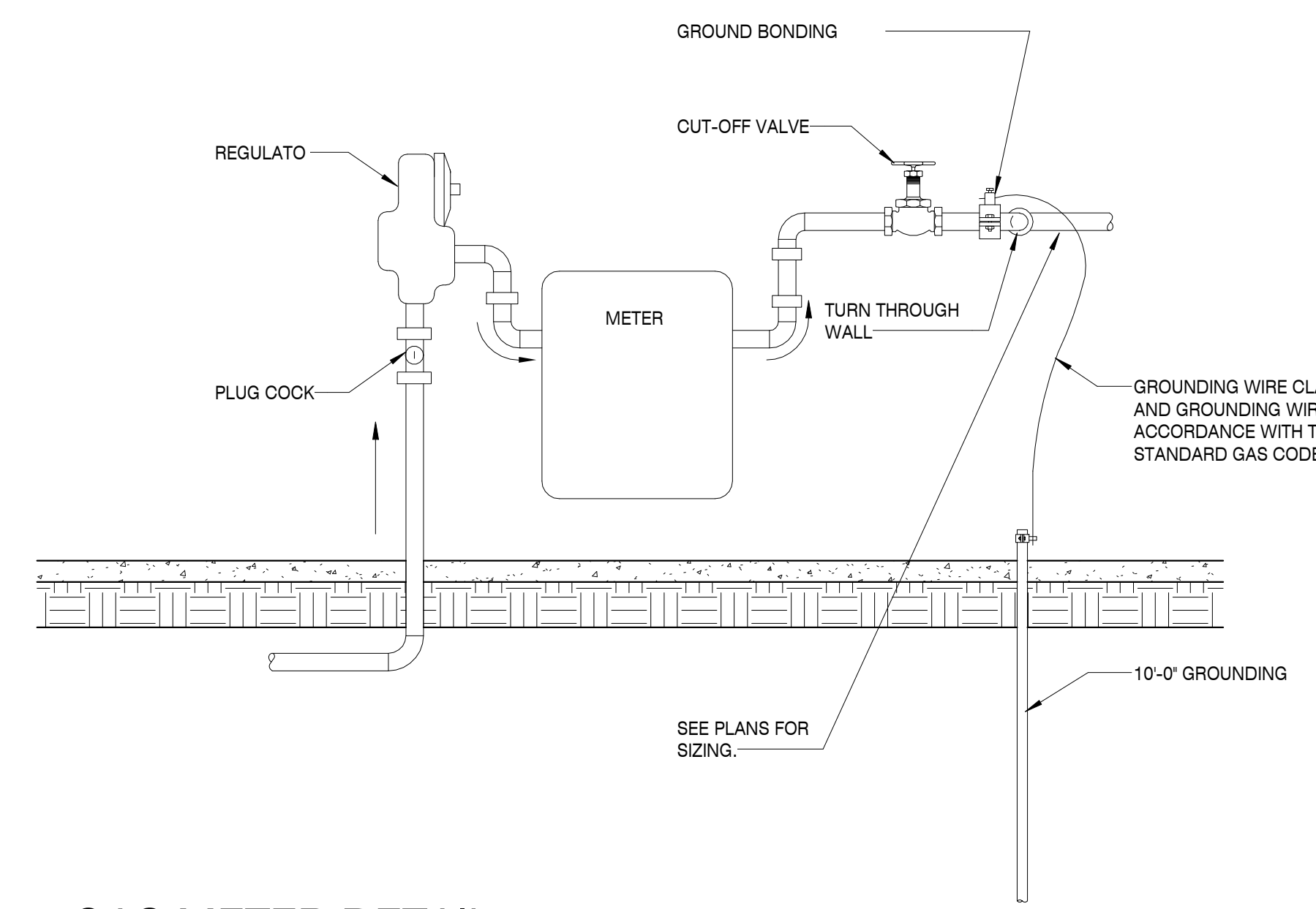
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CONDENSATE TRAP DETAIL

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

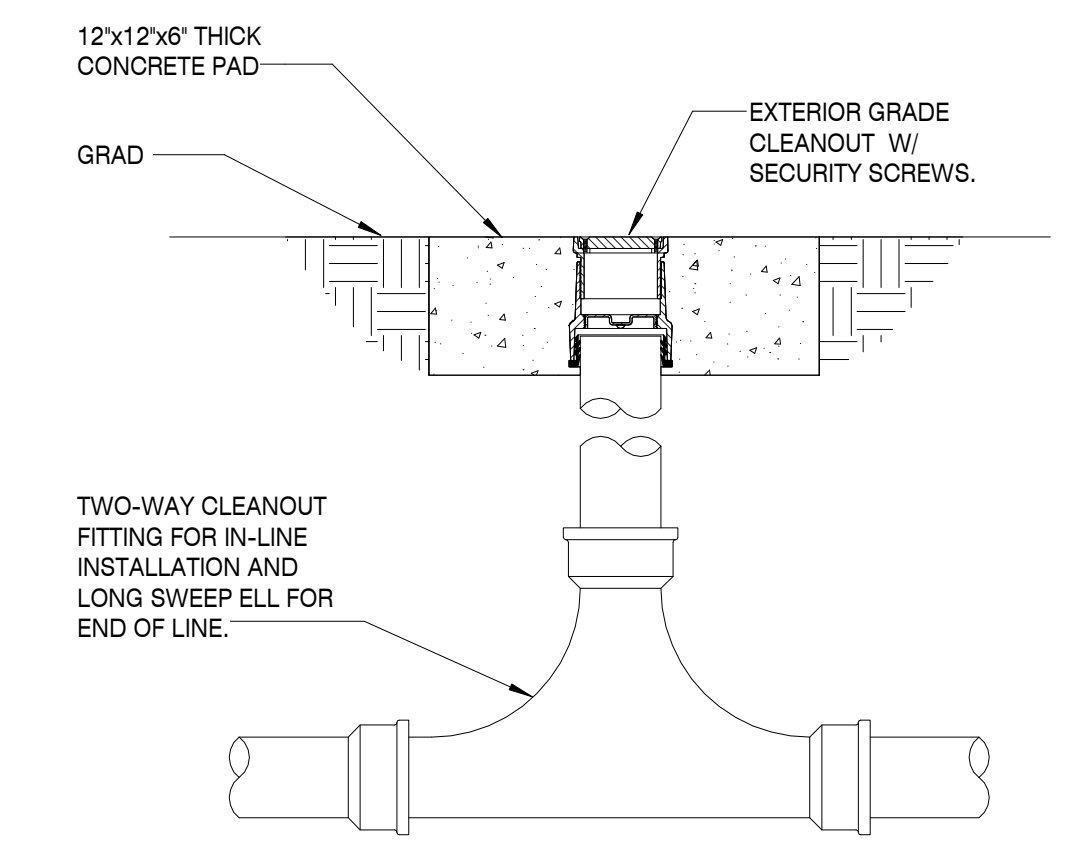
7



GAS METER DETAIL

SCALE: N.T.S.

6



EXTERIOR GRADE CLEANOUT

SCALE: N.T.S.

3

CONSULTANT

SEAL

PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION	REV #1
1	1/28/2024		

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023

DESIGNED BY: DRJ

DRAWN BY: DRJ

REVIEWED BY: JCB

SHEET TITLE: PLUMBING DETAILS

SHEET NO.: P301

C:\Users\p301\OneDrive\Desktop\2023-10-31-01_Clinton High School Welding Building\07_220042-02_Mechanical_P301.rvt
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TFM # 00017-D
 PROJECT # 2023-10-31-01
 FIELD SET

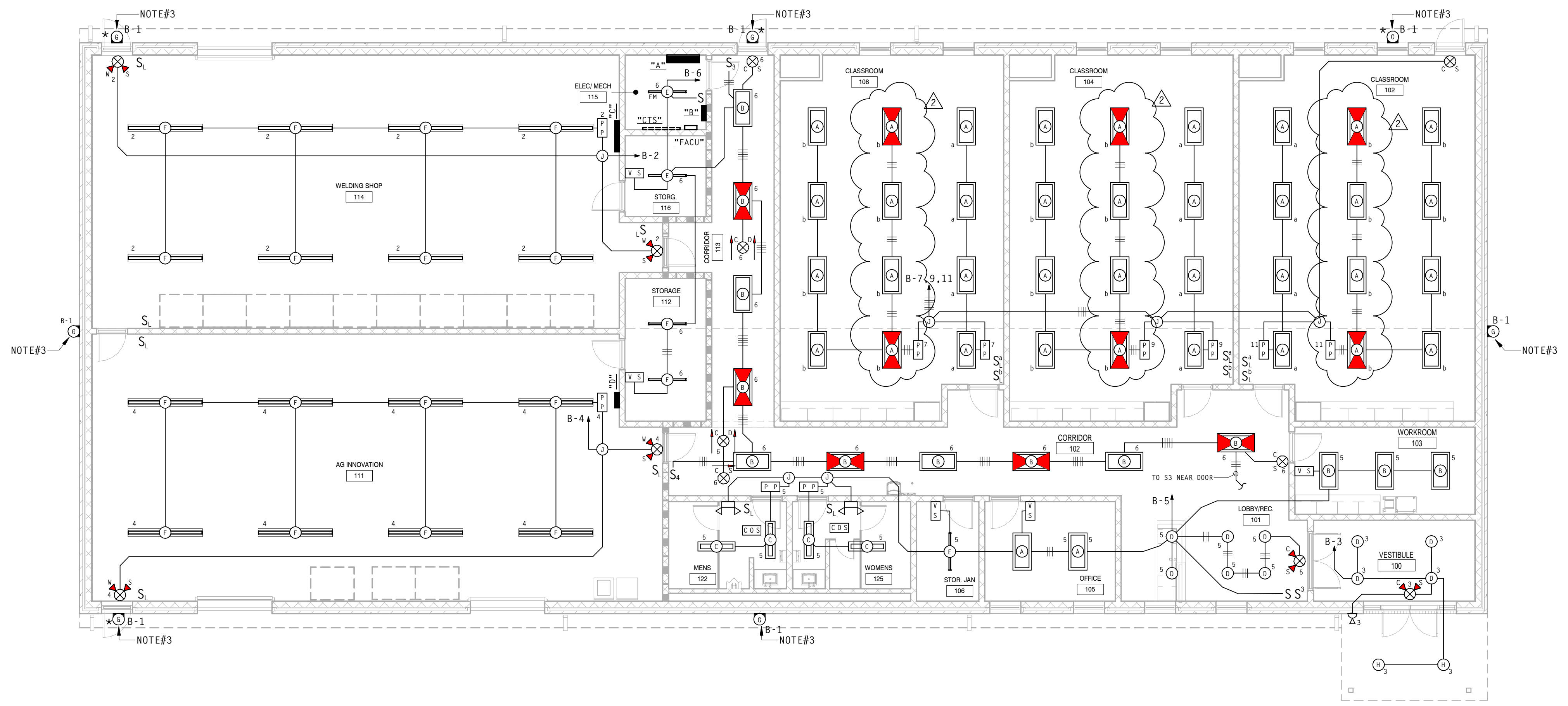
ARCH D A B C D E F G H J K L M

LIGHTING NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
- EXIT SIGNS, BUILT-IN BATTERY PACKS AND EXTERIOR EMERGENCY LIGHTS SHALL BE CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUITS AS INDICATED ON DRAWINGS. PROVIDE A SEPARATE UNSWITCHED HOT CONDUCTOR FOR EMERGENCY LIGHTING BATTERY BACKUP TO ALLOW NORMAL SWITCHING OF THESE CIRCUIT WITHOUT DISCHARGING BATTERIES.
- WIRING ROUTING TO EXTERIOR LIGHTING FIXTURE NOT SHOWN FOR DRAWING CLARITY. PROVIDE 20 AMPERE BRANCH CIRCUIT INDICATED TO THIS FIXTURE, SIMILAR TO OTHER LIGHTING CIRCUITS SHOWN ON PLANS.

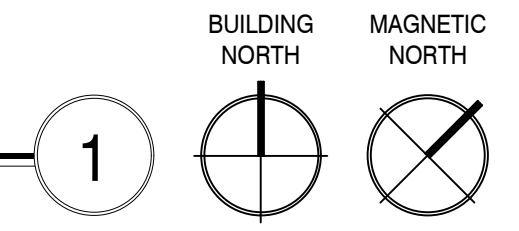
WALL LEGEND

	EXTERIOR WALL - BRICK VENEER ON MTL STUD
	WALL PARTITION - MTL STUD WALL
	WALL PARTITION - SOUND BARRIER - MTL STUD WALL
	WALL PARTITION - 1 HOUR - MTL STUD WALL - SEE ULXXX
	WALL PARTITION - 2 HOUR - MTL STUD WALL - SEE ULXXX
	WALL PARTITION - SMOKE BARRIER - MTL STUD WALL
	WALL PARTITION - CMU WALL
	WALL PARTITION - 2 HOUR - CMU WALL - SEE ULXXX



FIRST FLOOR PLAN - LIGHTING

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



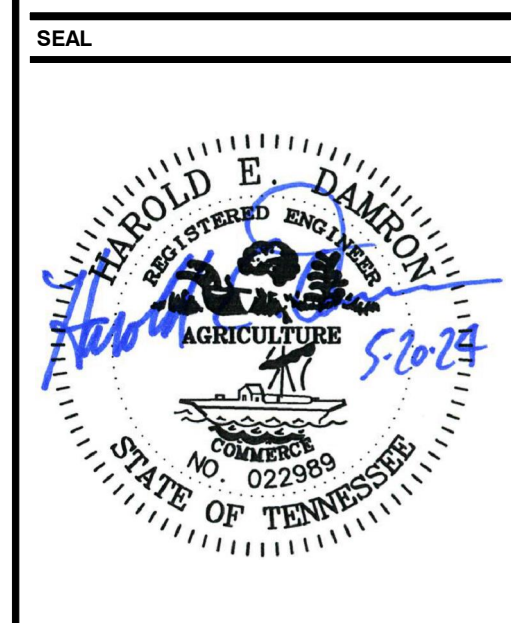
Autodesk Revit 2024.02.02_Clinton High School Welding Building_E01_2024-02-02.rvt
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
 411 DOUGLAS LN
 CLINTON, TN 37716
 PROJECT NO.: **220042-02**

ACTIVE DESIGN PHASE

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REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01
2	05.20.2024	REVISION #3

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
 DESIGNED BY: HED
 DRAWN BY: VEI
 REVIEWED BY: HED
 SHEET TITLE:

FIRST FLOOR PLAN - LIGHTING
 SHEET NO.:

E101

TFM# 00017-D
 PROJECT # 2023-10-31-01

- POWER NOTES:**
1. RECESSED OUTLET BOXES ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
 2. PROVIDE NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYER.
 3. "AC" BY DEVICE INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SUCH THAT BOTTOM OF BOX IS 2" ABOVE COUNTER OR COUNTER BACKSPLASH, AS APPLICABLE. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR COUNTER DETAILS.
 4. "DC" BY JUNCTION BOX INDICATES RETRACTABLE POWER CORD, 120-VOLT, 20 AMPERE, SIMILAR AND EQUAL TO DANIEL WOODHEAD CO. INDUSTRIAL DUTY CORD REEL WITH MINIMUM 20'-0" 12/3 RETRACTABLE CORD. RATED 600 VOLT AC. EQUIP EACH CORD REEL WITH 20 AMPERE PENDANT OUTLET BOX WITH NEMA 5-20R DUPLEX RECEPTACLE. CONFIRM EXACT LOCATIONS OF CORD REELS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION. PROVIDE SUITABLE MOUNTING SUPPORT AT CEILING/STRUCTURE FOR CORD REEL, COORDINATE WITH GC.

WALL LEGEND

	EXTERIOR WALL - BRICK VENEER ON MTL STUD WALL
	WALL PARTITION - MTL STUD WALL
	WALL PARTITION - SOUND BARRIER - MTL STUD WALL
	WALL PARTITION - 1 HOUR - MTL STUD WALL - SEE ULXXXX
	WALL PARTITION - 2 HOUR - MTL STUD WALL - SEE ULXXXX
	WALL PARTITION - SMOKE BARRIER - MTL STUD WALL
	WALL PARTITION - CMU WALL
	WALL PARTITION - 2 HOUR - CMU WALL - SEE ULXXXX

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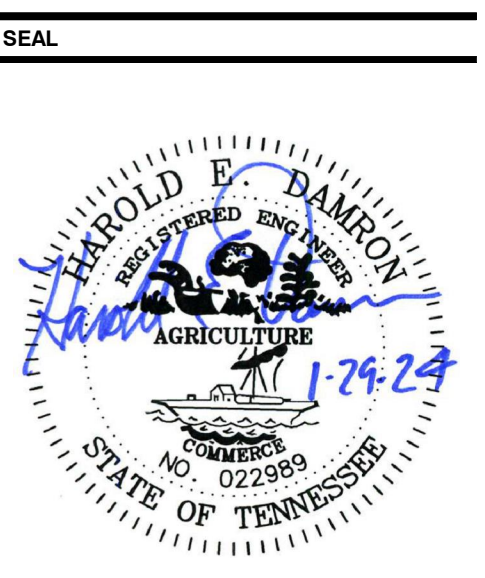
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PROJECT INFORMATION
PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
411 DOUGLAS LN
CLINTON, TN 37716

PROJECT NO.: **220042-02**

ACTIVE DESIGN PHASE

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<input type="checkbox"/>	FOR PERMITTING ONLY
<input type="checkbox"/>	SCHEMATIC DESIGN
<input type="checkbox"/>	DESIGN DEVELOPMENT
<input type="checkbox"/>	CONSTRUCTION BIDDING
<input type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

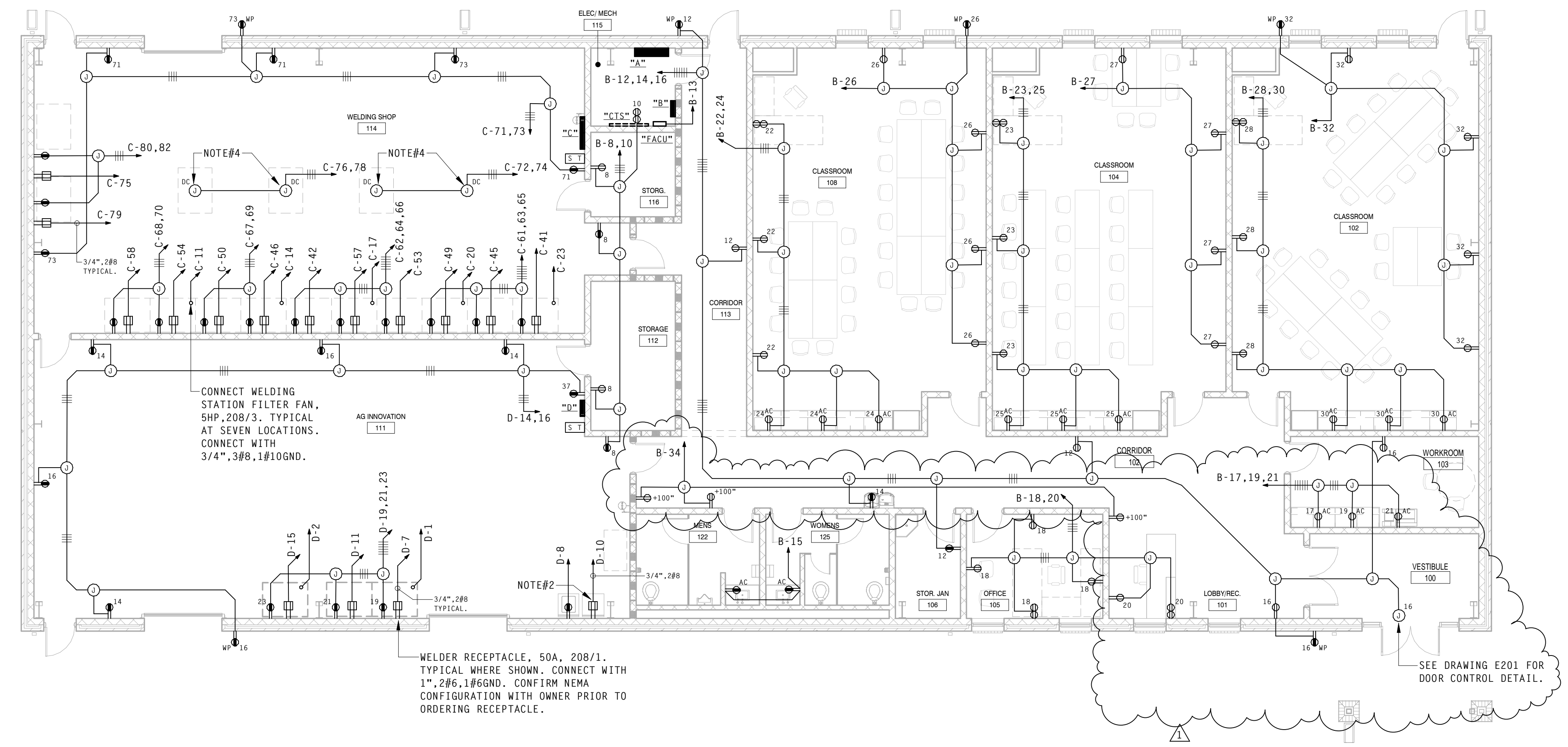
NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN

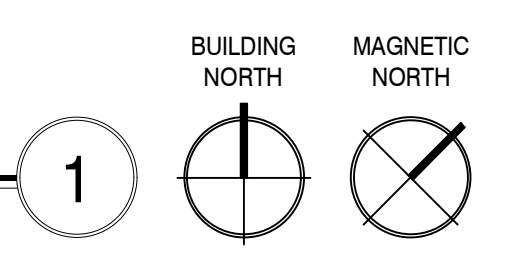
SHEET INFORMATION

SHEET ISSUED:	10/06/2023
DESIGNED BY:	HED
DRAWN BY:	VEI
REVIEWED BY:	HED
SHEET TITLE:	

FIRST FLOOR PLAN - POWER
SHEET NO.: **E102**



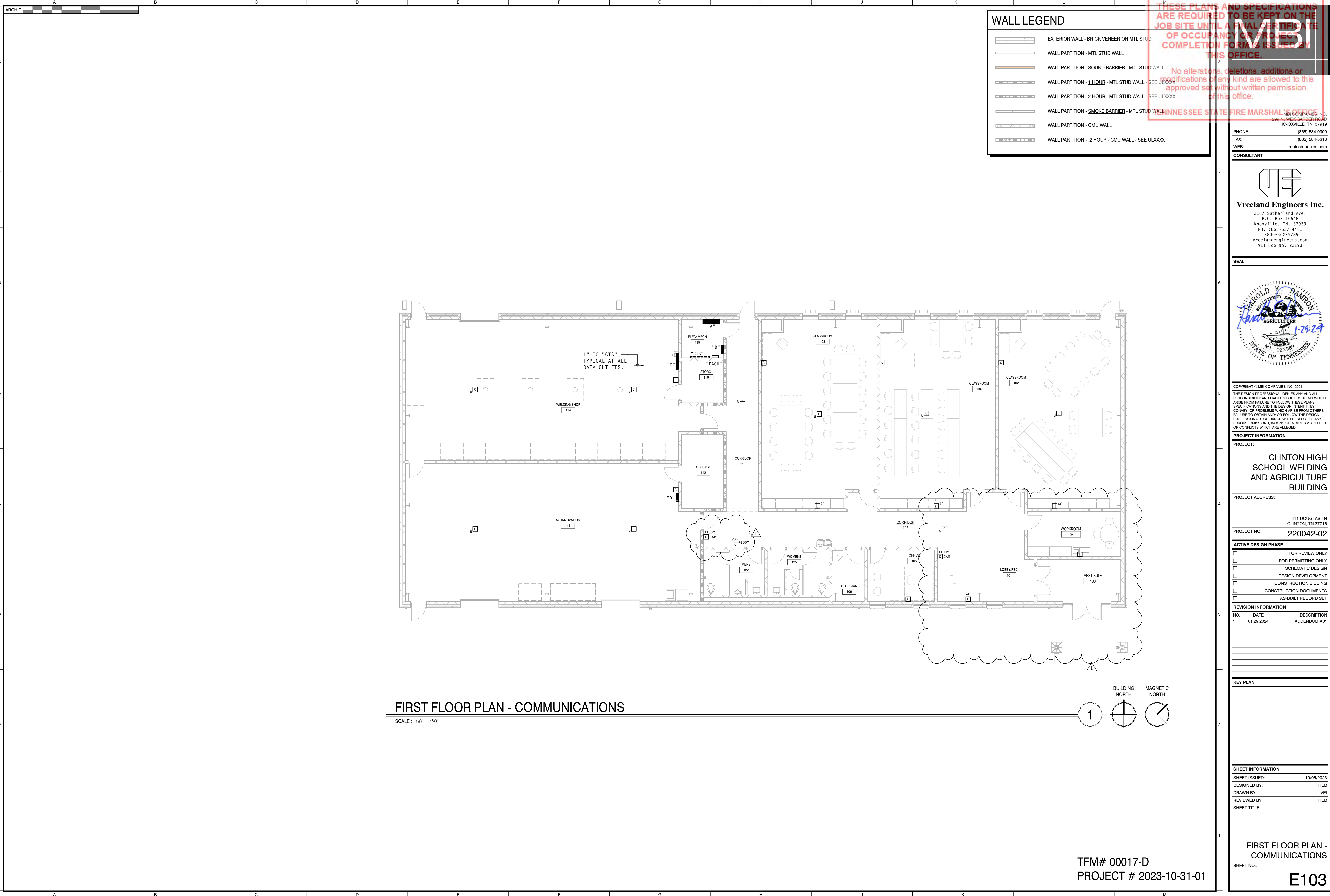
FIRST FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



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FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D

TFM# 00017-D
PROJECT # 2023-10-31-01



WALL LEGEND

	EXTERIOR WALL - BRICK VENEER ON MTL STUD
	WALL PARTITION - MTL STUD WALL
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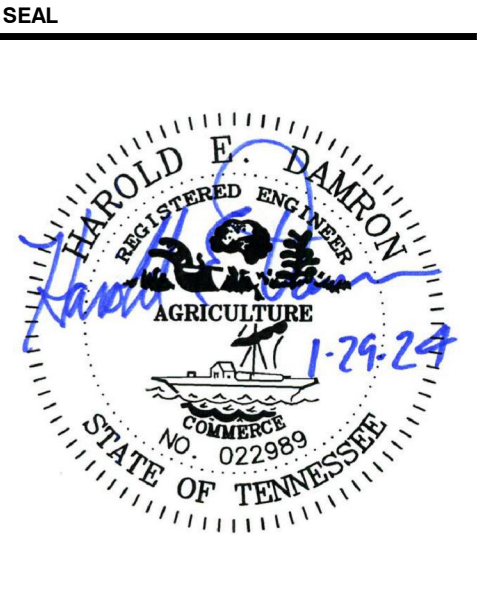
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PROJECT INFORMATION

PROJECT:
CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS:
 411 DOUGLAS LN
 CLINTON, TN 37716

PROJECT NO.: **220042-02**

ACTIVE DESIGN PHASE

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 CONSTRUCTION DOCUMENTS
 AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

KEY PLAN

SHEET INFORMATION

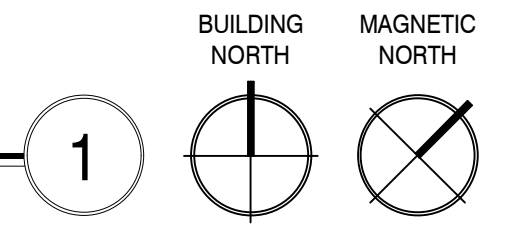
SHEET ISSUED: 10/06/2023
 DESIGNED BY: HED
 DRAWN BY: VEI
 REVIEWED BY: HED
 SHEET TITLE:

FIRST FLOOR PLAN - COMMUNICATIONS

SHEET NO.: **E103**

FIRST FLOOR PLAN - COMMUNICATIONS

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



TFM# 00017-D
 PROJECT # 2023-10-31-01

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PROJECT # 2023-10-31-01
 FIELD SET
 TFM # 00017-D

- FIRE ALARM AND HVAC WIRING NOTES:**
1. GAS FIRED UNIT HEATER PROVIDED BY HVAC CONTRACTOR. EACH "GUH" IS RATED 0.6HP. 120V. PROVIDE A 20 AMP, 120V. PROVIDE A 20 AMP, 120V TOGGLE SWITCH AT EACH "GUH" AND CONNECT AS REQUIRED.
 2. EXHAUST FANS EF-3, EF-4, EF-5, AND EF-6 PROVIDED BY HVAC CONTRACTOR WITH FUSED SAFETY SWITCH. CONNECT AS REQUIRED.
 3. CONNECT WATER HEATER, 24.0KW, 208/3 AND RECIRCULATING PUMP, 1/12HP, 120V.
 4. PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH MECHANICAL/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL CALL ANY DISCREPANCIES BETWEEN ELECTRICAL DRAWINGS AND VOLTAGE INFORMATION PROVIDED BY MECHANICAL/PLUMBING CONTRACTOR TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH WORK.
 5. CONFIRM EXACT ROUGH-IN LOCATIONS FOR ALL HVAC/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT.
 6. CONNECT ALL SPRINKLER FLOW/TAMPER SWITCHES TO BUILDING FIRE ALARM SYSTEM. QUANTITIES SHOWN ARE DIAGRAMMATIC ONLY. CONFIRM EXACT QUANTITIES WITH SPRINKLER SYSTEM SUBCONTRACTOR.
 7. EXTEND 3/4" WITH FIRE ALARM WIRING TO WALL INDICATOR VALVE (WIV). CONNECT TAMPER SWITCH AT PIV TO BUILDING FIRE ALARM SYSTEM. REFER TO FIRE PROTECTION/SITE UTILITY DRAWINGS FOR EXACT LOCATION OF WIV.
 8. CONNECT SPRINKLER ALARM BELL ON EXTERIOR OF BUILDING. COORDINATE ROUGH-IN AND CONNECTION REQUIREMENTS WITH SPRINKLER SUBCONTRACTOR. PROVIDE "WEATHERPROOF" FIRE ALARM A/V DEVICE ON EXTERIOR OF BUILDING ADJACENT TO SPRINKLER BELL.

WALL LEGEND

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PROJECT INFORMATION

PROJECT: CLINTON HIGH SCHOOL WELDING AND AGRICULTURE BUILDING

PROJECT ADDRESS: 411 DOUGLAS LN CLINTON, TN 37716

PROJECT NO.: 220042-02

ACTIVE DESIGN PHASE

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REVISION INFORMATION

NO.	DATE	DESCRIPTION
1	01.29.2024	ADDENDUM #01

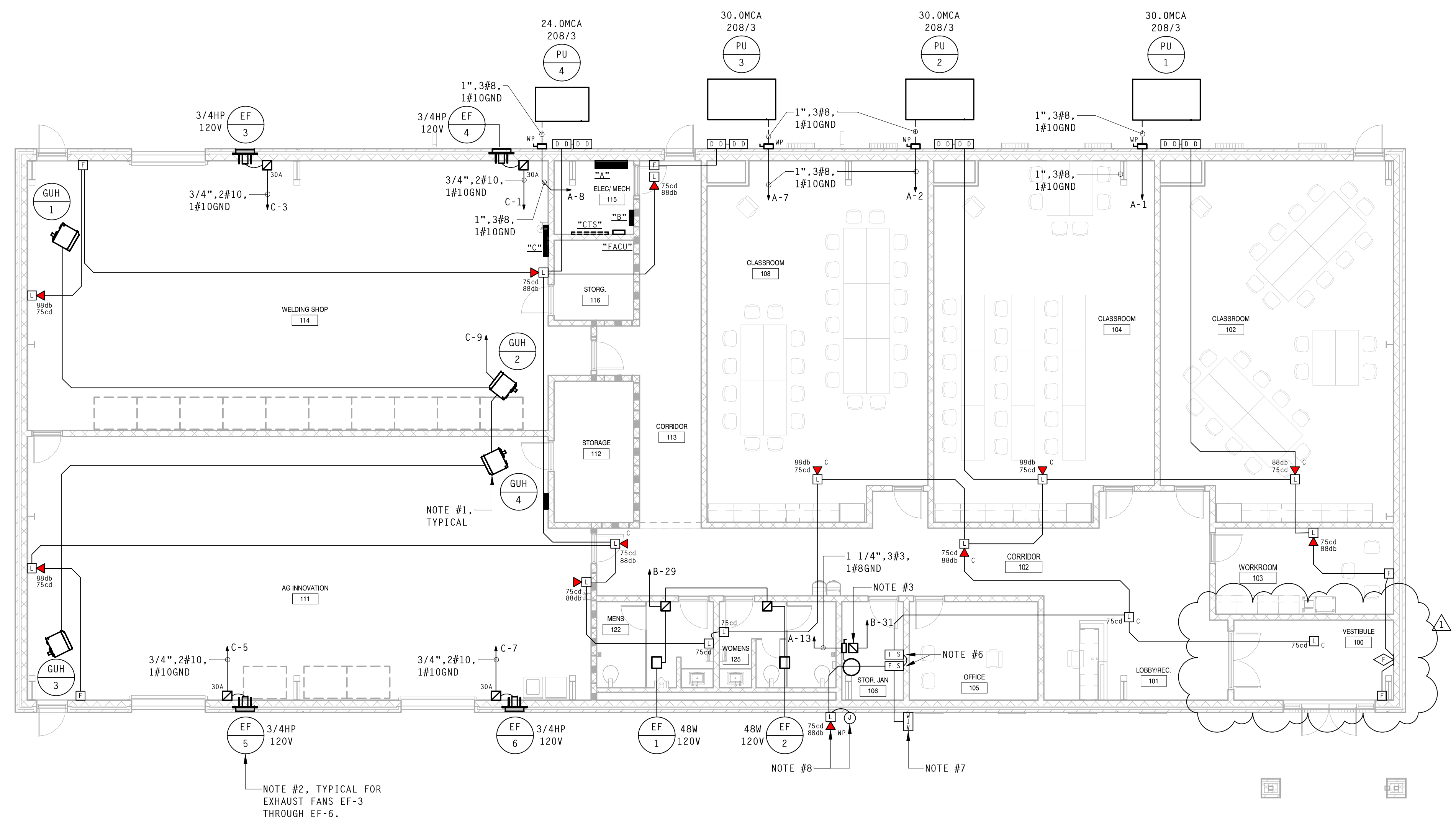
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/06/2023
DESIGNED BY: HED
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REVIEWED BY: HED
SHEET TITLE:

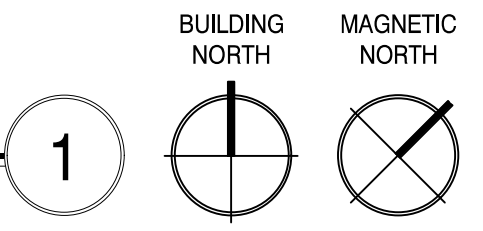
FIRST FLOOR PLAN - FIRE ALARM AND HVAC WIRING

SHEET NO.: E104



FIRST FLOOR PLAN - FIRE ALARM AND HVAC WIRING

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



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PROJECT # 2023-10-31-01 FIELD SET TFM # 00017-D

TFM# 00017-D
PROJECT # 2023-10-31-01

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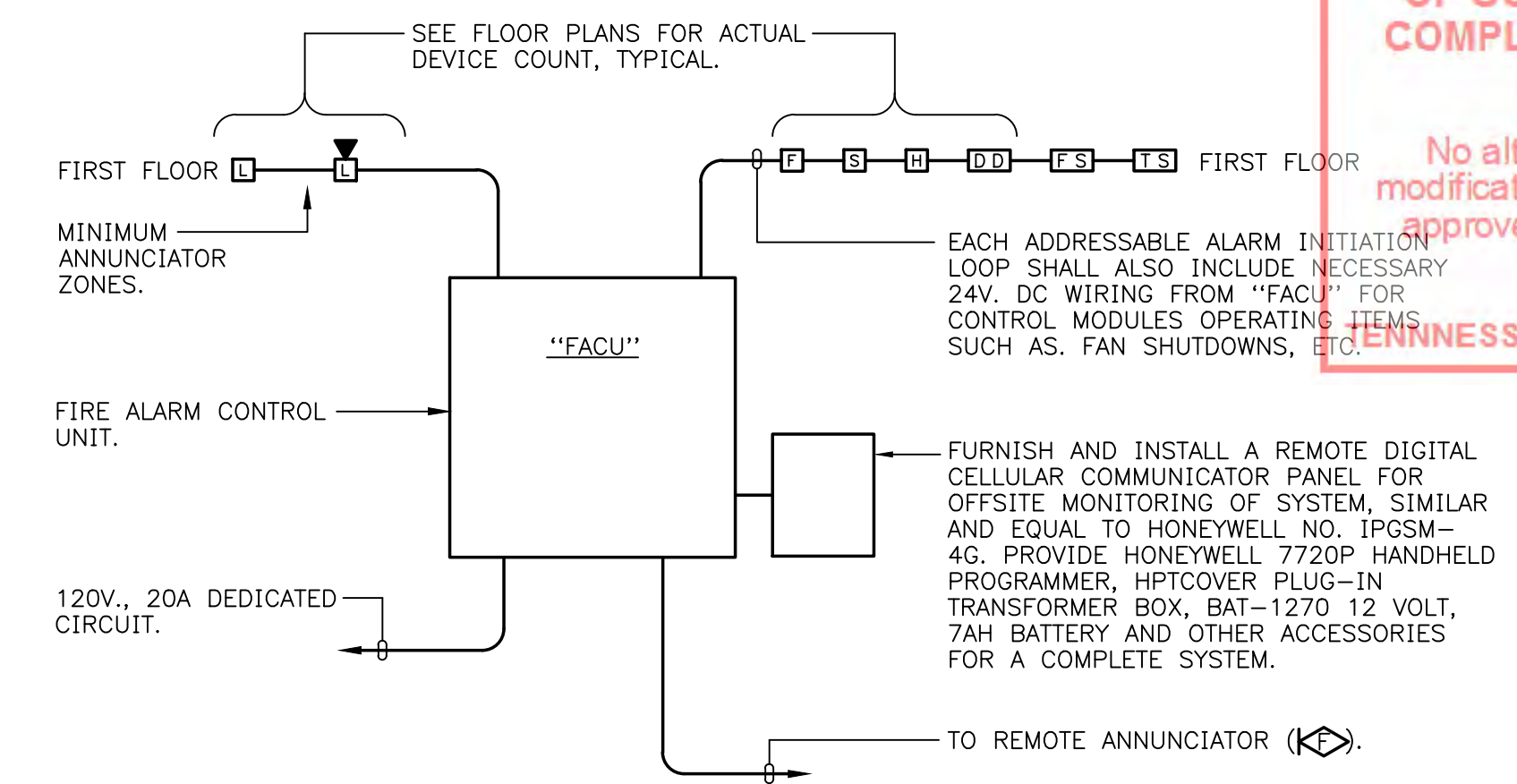
KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 10/09/2023
 DESIGNED BY: HED
 DRAWN BY: VEI
 REVIEWED BY: HED
 SHEET TITLE:

DETAILS

SHEET NO.: E203

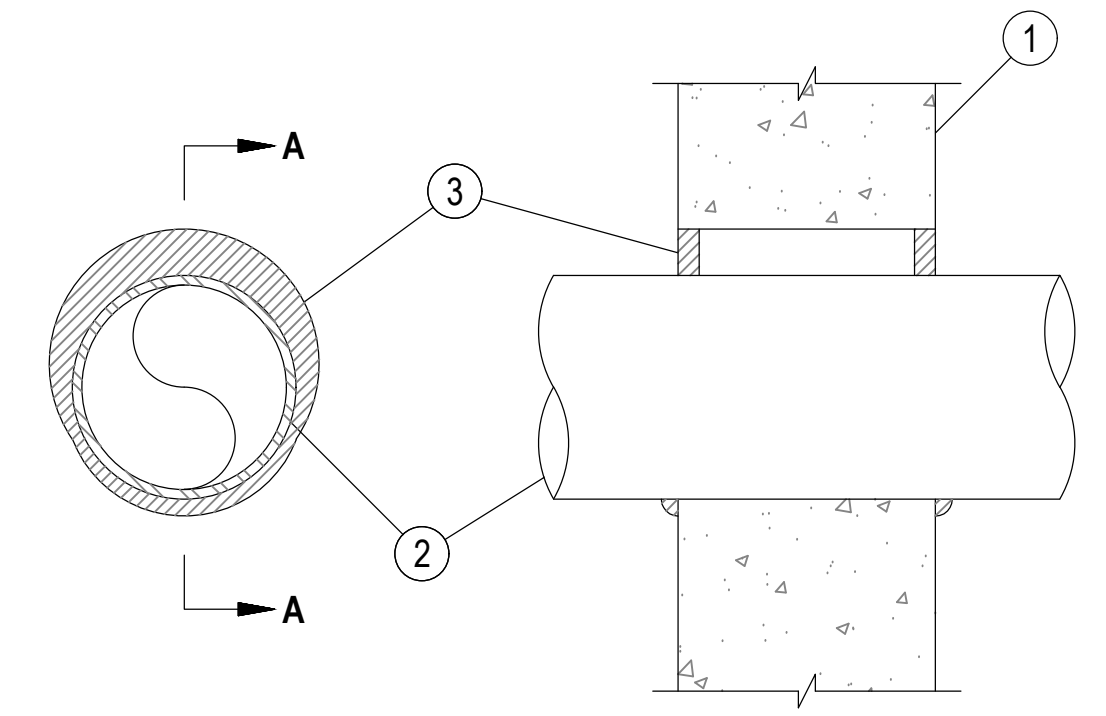


FIRE ALARM RISER DIAGRAM
 N.T.S.

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

System No. W-J-1067

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Items 1 and 3)	F Rating — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 1 and 2 Hr (See Items 1 and 3)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



SECTION A-A

- Wall Assembly — Min 3-3/4 in. and 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete for 1 and 2 h rated assemblies, respectively. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32-1/4 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through—Penetrants — One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tube may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam (or smaller) steel conduit.
 - Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material* — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe-wall interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark



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E203 - CIV. WELDING - DETAIL S-406
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ENTIRE DRAWING ADDED.

TFM# 00017-D
 PROJECT # 2023-10-31-01

FIELD SET PROJECT # 2023-10-31-01 TFM # 00017-D