

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

JOSH SHAPIRO, GOVERNOR REGINALD B. MCNEIL, II, SECRETARY OF GENERAL SERVICES

PROJECT NO. D.G.S. C-0961-0044 PHASE 01
DMVA BUILDING 237 RENOVATION
BIDDLE AIR NATIONAL GUARD BASE
HORSHAM, PA 19044

PROFESSIONAL / ARCHITECT
ZIMMERMAN STUDIO, LLC
1927 SOUTH BROAD STREET, FIRST FLOOR
PHILADELPHIA, PA
PHONE (267) 687-5709

STRUCTURAL ENGINEERING CONSULTANT
DAVID MASON + ASSOCIATES
123 SOUTH BROAD STREET, STE. 1130
PHILADELPHIA, PA
PHONE (215) 372-3400

MECHANICAL ENGINEERING CONSULTANT
TREFZ ENGINEERING, INC.
601 DRESHER ROAD - SUITE 275
HORSHAM, PA 19044
PHONE (215) 572-8115

ELECTRICAL ENGINEERING CONSULTANT
TREFZ ENGINEERING, INC.
601 DRESHER ROAD - SUITE 275
HORSHAM, PA 19044
PHONE (215) 572-8115

CIVIL ENGINEERING CONSULTANT
DAVID MASON + ASSOCIATES
123 SOUTH BROAD STREET, STE. 1130
PHILADELPHIA, PA
PHONE (215) 372-3400

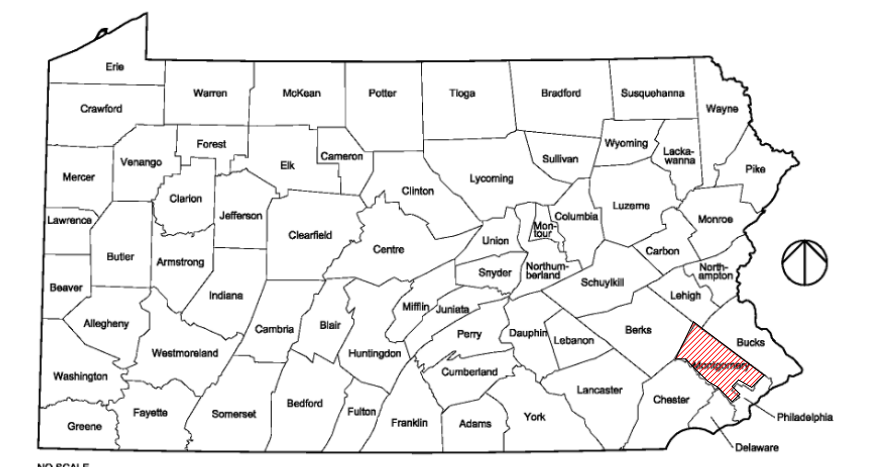
DRAWING COMMON TO ALL CONTRACTS LIST	
DRAWINGS COMMON TO ALL CONTRACTS	
CS-1	COVER SHEET
G-1.0	ABBREVIATIONS, LEGENDS & SCHEDULES
G-2.0	LIFE SAFETY PLAN
GENERAL CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.1	
C-01	SITE& DEMO PLAN
C-02	GRADING & UTILITY
C-03	EROSION CONTROL
C-04	CIVIL DETAILS
S-0.01	GENERAL NOTES
S-0.02	INSPECTION TABLES
S-0.10	TYPICAL FOUNDATION DETAILS
S-0.20	TYPICAL STEEL DETAILS
S-1.01	FOUNDATION PLAN
S-1.02	ROOF FRAMING PLAN
S-2.01	FUNDATION SECTIONS
S-2.02	ROOF SECTIONS
A-1.0	DEMOLITION PLAN
A-1.1	CEILING DEMOLITION PLAN
A-1.2	ROOF DEMOLITION PLAN
A-1.3	DEMOLITION SECTIONS
A-1.4	BUILDING DEMOLITION ELEVATIONS
A-2.0	FLOOR PLAN
A-2.1	ENLARGED PLAN MEN'S & WOMEN'S
A-2.2	ROOF PLAN ENLARGE CANOPY
A-2.3	FINISH PLAN
A-3.0	BUILDING ELEVATIONS
A-3.1	BUILDING SECTIONS
A-4.0	WALL SECTIONS
A-4.1	WALL SECTIONS
A-5.0	INTERIOR ELEVATIONS MASONRY BUILDING
A-5.1	INTERIOR ELEVATIONS PREMANUFACTURED BUILDING
A-6.0	REFLECTED CEILING PLANS
A-7.0	EXTERIOR WALL DETAILS
A-7.1	EXTERIOR OPENING DETAILS
A-7.2	ROOF DETAILS
A-7.3	INTERIOR DETAILS

MECHANICAL CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.2	
H-000	LEGENDS AND ABBREVIATIONS
HD-100	MECHANICAL DEMOLITION PLAN
H-100	MECHANICAL NEW WORK PLANS
H-101	MECHANICAL PIPING NEW WORK
H-400	MECHANICAL SECTIONS
H-500	DETAILS - AIR
H-501	DETAILS - HYDRONIC
H-502	DETAILS - CONTROLS
H-600	SINGLE LINE DIAGRAMS
H-601	SCHEDULES
PLUMBING CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.3	
P-000	LEGENDS AND ABBREVIATIONS
PD-100	SANITARY DEMOLITION PLANS
PD-101	PLUMBING PIPING DEMOLITION
P-100	SANITARY NEW WORK PLANS
P-101	PLUMBING PIPING NEW WORK
P-600	SINGLE LINE DIAGRAM
FIRE PROTECTION CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.3	
FP-000	LEGENDS, ABBREVIATIONS & FLOW TEST
FP-100	DEMOLITION & NEW WORK PLAN
ELECTRICAL CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.4	
E-000	LEGENDS AND ABBREVIATIONS
ED-100	FIRST FLOOR DEMOLITION PLAN
E-100	NEW WORK POWER PLAN-WEST
E-101	NEW WORK POWER PLAN-EAST
E-102	NEW LIGHTING PLAN-WEST
E-103	NEW LIGHTING PLAN-EAST
E-104	LOW VOLTAGE SYSTEMS-WEST
E-105	LOW VOLTAGE SYSTEMS-EAST
E-106	ROOF PLAN
E-300	SECTIONS
E-500	DETAILS
E-501	DETAILS
E-600	SINGLE LINE DIAGRAMS
E-601	SCHEDULES

CODE APPROVALS

NO APPROVALS
REQUIRED

VICINITY MAP



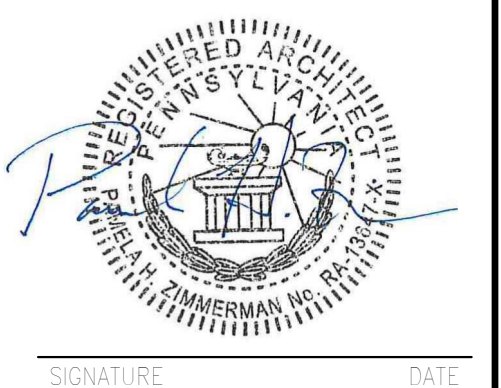
VICINITY MAP



CAMPUS/ KEY PLAN



REC'D REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE +
PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

COVER SHEET

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY <i>IB</i>	DATE 08/26/2024	DRAWING No. CS-1
CHECKED BY <i>AK</i>	SCALE As indicated	

ABBREVIATIONS	
ACOUSTIC	ACOUS
ADJUSTABLE	ADJ
ADJACENT	ADJA
ALUMINUM	AL OR ALUM
ARCHITECT. ARCHITECTURAL BOARD	ARCH
B.O.	B.O.
BOTTOM OF	BD
BUILDING	BLDG
CABINET	CAB
CARPET	CPT
CEILING	CLG
CEILING JOIST	C.J.
CENTER LINE	CL
CERAMIC TILE	CT
CLEAR	CLR
COLD WATER	CW
COLUMN	COL
CONCRETE	CONC
CONCRETE MASONRY UNIT	CMU
CONSTRUCTION	CONST
CONTINUOUS	CONT
DEMOLITION	DEMO
DETAIL	DTL
DIAMETER	DA
DIMENSION	DIM
DOOR	DR
DOWN	DN
DRAWING	DWG
EACH	EA
ELECTRIC	ELEC
EQUIPMENT	EQUIP
ESTIMATE	EST
EXISTING	EXIST
FEET FOOT	FT
FINISH	FIN
FINISH FLOOR	FF
FIRE EXTINGUISHER	F.E.
FIRE EXTINGUISHER CABINET	F.E.C.
FIRE-RESISTANCE TREATED FLOOR	F.R.T.
FRAME	FR
FURNITURE	FURN
GAUGE	GA
GENERAL CONTRACTOR	G.C.
GLASS	GL
GYP/SUM WALL BOARD	GWB
HARDWARE	HW
HEIGHT	HT
HOLLOW METAL	HM
HORIZONTAL	HRZ
HOT WATER	HW
INCH	" OR IN
INSULATION	INSUL
INTERIOR	INT
JUNCTION BOX	JB
LAUNDRY	LAV
MANUFACTURE	MFR
MASONRY OPENING	M.O.
MAXIMUM	MAX
MECHANICAL	MECH
METAL	MTL
MINIMUM	MIN
MISCELLANEOUS	MISC
NOMINAL	NOM
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	NTS
OPPOSITE	OPP
OVERFLOW DRAIN	O.D.
PAINT PAINTED	PT, PTD
PARTITION	PTN
PLASTIC LAMINATE	PLM
PLYWOOD	PLYWD
QUANTITY	QTY
RADIUS	R
RAINWATER CONDUCTOR	RWC
REFERENCE	REF
REINFORCE	REINF
REQUIRED	REQ
REVISION	REV
ROOF DRAIN	R.D.
ROOM	RM
ROUGH OPENING	R.O.
SIMILAR	SM
SOLID CORE	SC
SPECIFICATIONS	SP OR SQ. FT.
SQUARE FEET	SF
SQUARE INCHES	SQ. IN.
STAINLESS STEEL	S.S.TL.
STANDARD	STD
STEEL	ST
SUSPENDED	SUSP
SYSTEM	SYS
TELEPHONE	TEL
TOP OF	T.O.
TYPICAL	TYP
UNLESS NOTED OTHERWISE	UNO
VERIFY IN FIELD	V.I.F.
VERTICAL	VERT
VINYL COMPOSITION TILE	VCT
VENTILATION THROUGH ROOF	V.T.R.
WATER CLOSET	WC
WEIGHT	WT
WELDED WIRE REINFORCING	WWF
WITH	WI
WITHOUT	WO
WOOD	WD
YARD	YD

ARCHITECTURAL LEGEND	
	ROOM IDENTIFICATION
	ENLARGED PLAN OR DETAIL MARK
	MULTIPLE ELEVATION REFERENCE
	ELEVATION REFERENCE
	SECTION REFERENCE
	WORKING POINT OR DATUM
	PARTITION TYPE
	COLUMN GRID
	SPOT ELEVATION TAG
	DOOR TAG IDENTIFICATION
	WINDOW TAG
	CLEAR DIMENSION BETWEEN ELEMENTS
	DIMENSION TO EDGE
	DIMENSION TO CENTERLINE
	FLOOR CORE, COORD. LOCATION WITH MPE DOCUMENTS
	PARTITION CORE, COORD. LOCATION & SIZE WITH MPE DOCUMENTS
	WALL OR PARTITION WITH 1/2-HOUR FIRE-RESISTANCE RATING
	WALL OR PARTITION WITH 1-HOUR FIRE-RESISTANCE RATING
	WALL OR PARTITION WITH 2-HOUR FIRE-RESISTANCE RATING
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET

CEILING LEGEND	
	CEILING TYPE CEILING HEIGHT
	2 X 2 SUSPENDED CEILING WITH GASKETED GRID / EXISTING. MOISTURE RESISTANT IN ALL WET LOCATIONS.
	GWB SOFFIT, CEILING, AND EXISTING HARD CEILING (PLASTER, GWB, CONCRETE).
	SMOKE DETECTOR
	STROBE
	SPRINKLER HEAD AND ESCUTCHEON
	CEILING MOUNTED EGRESS LIGHT
	CEILING MOUNTED EGRESS LIGHT
	RETURN DIFFUSER
	SUPPLY DIFFUSER
	UTOMATIC DETECTOR SEE ELECTRICAL DOCUMENTS FOR TYPE
	CEILING MOUNTED OCCUPANCY SENSOR SEE ELECTRICAL DOCUMENTS FOR TYPE
	WALL MOUNTED OCCUPANCY SENSOR SEE ELECTRICAL DOCUMENTS FOR TYPE
	CEILING / PENDANT MOUNTED DAYLIGHT SENSOR
	2 X 2 RECESSED LED LIGHT FIXTURE
	1 X 4 RECESSED MOISTURE RESISTANT LED LIGHT FIXTURE
	6" RECESSED LED LIGHT FIXTURE. MOISTURE RESISTANT IN ALL WET LOCATIONS.
	36" PENDANT ROUND LED LIGHT FIXTURE.
	24" PENDANT ROUND LED LIGHT FIXTURE.
	WALL MOUNTED POINT SOURCE LED LIGHT FIXTURE.
	PENDANT ROUND LED LIGHT FIXTURE.
	4 X 4 SURFACE MOUNTED LED LINEAR LIGHT FIXTURE
	PENDANT LOW BAY LED LIGHT FIXTURE
	EXTERIOR LED WALL SCONCE
	OUTDOOR SURFACE MOUNTED LED LIGHT FIXTURE.

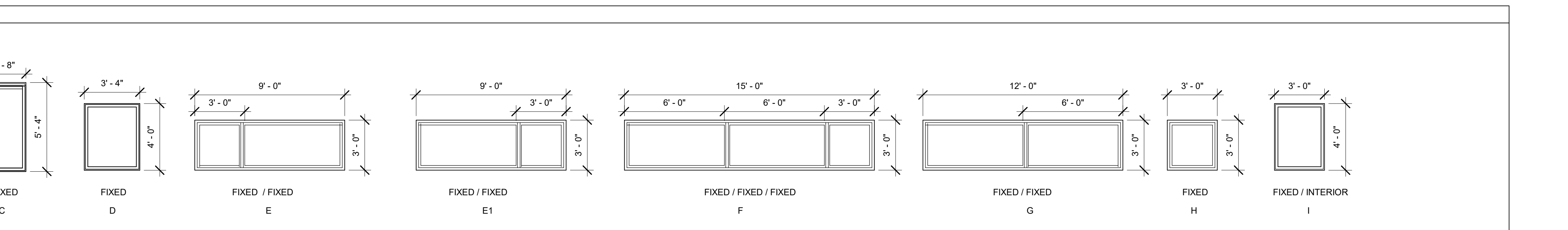
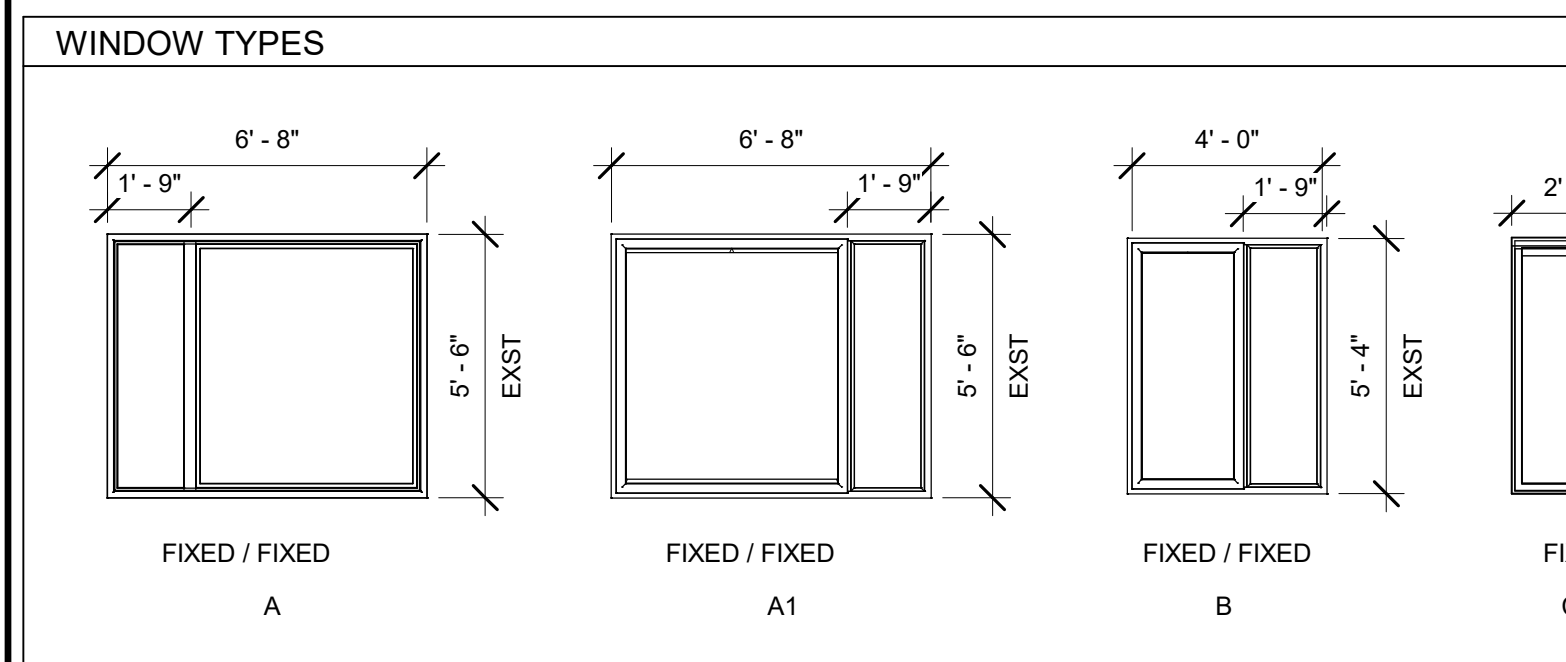
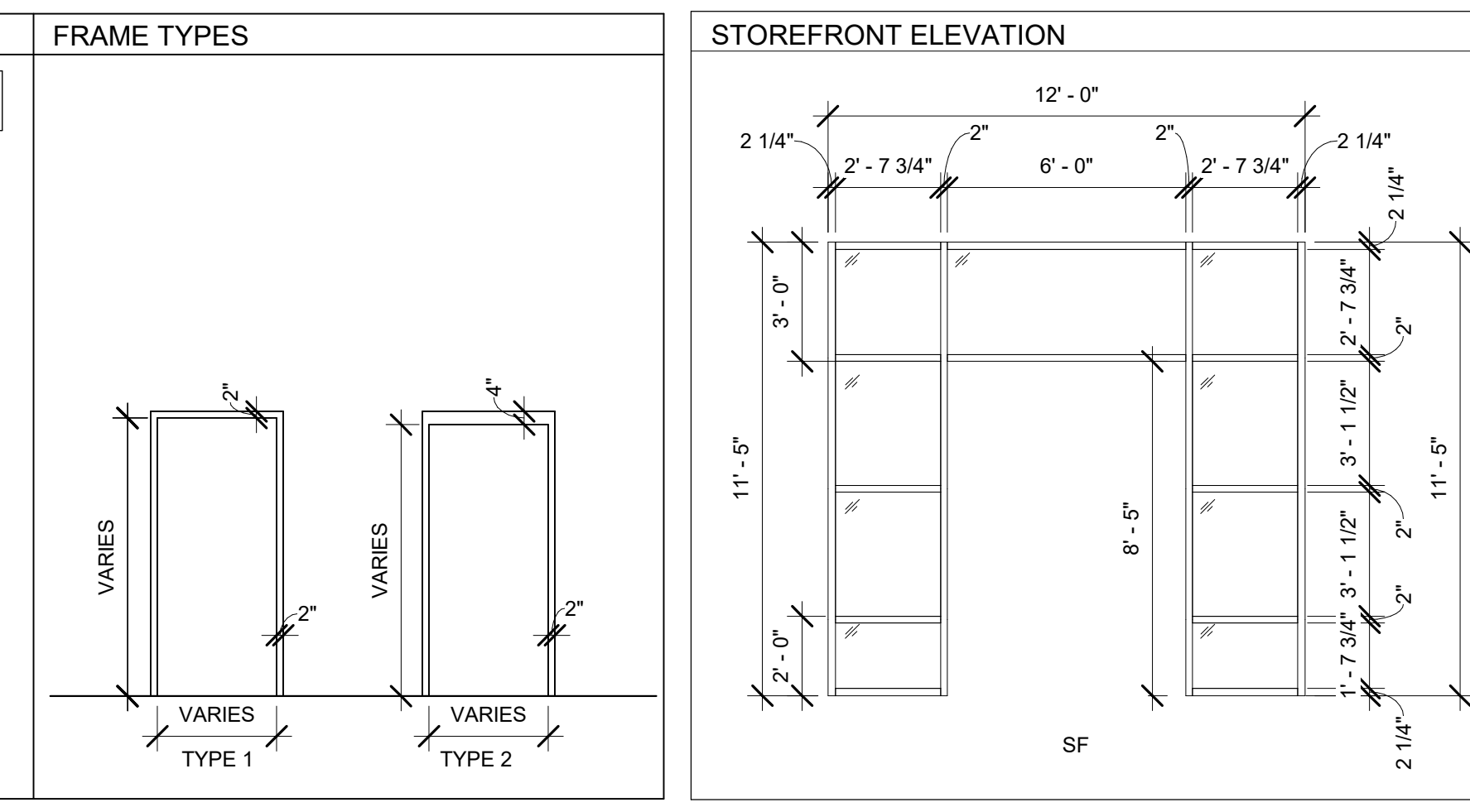
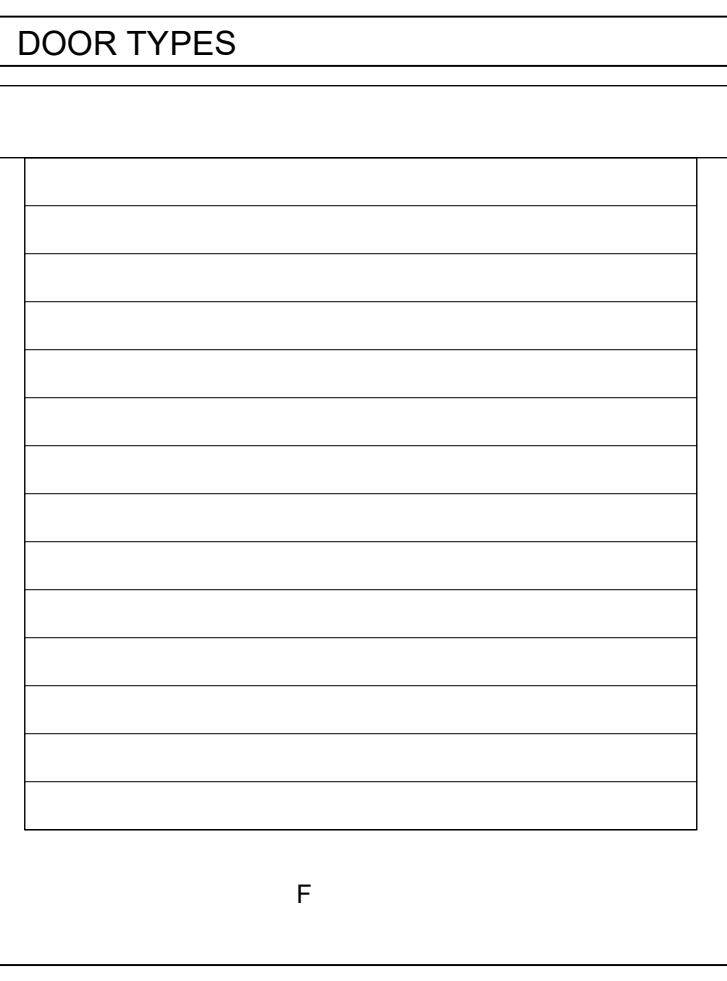
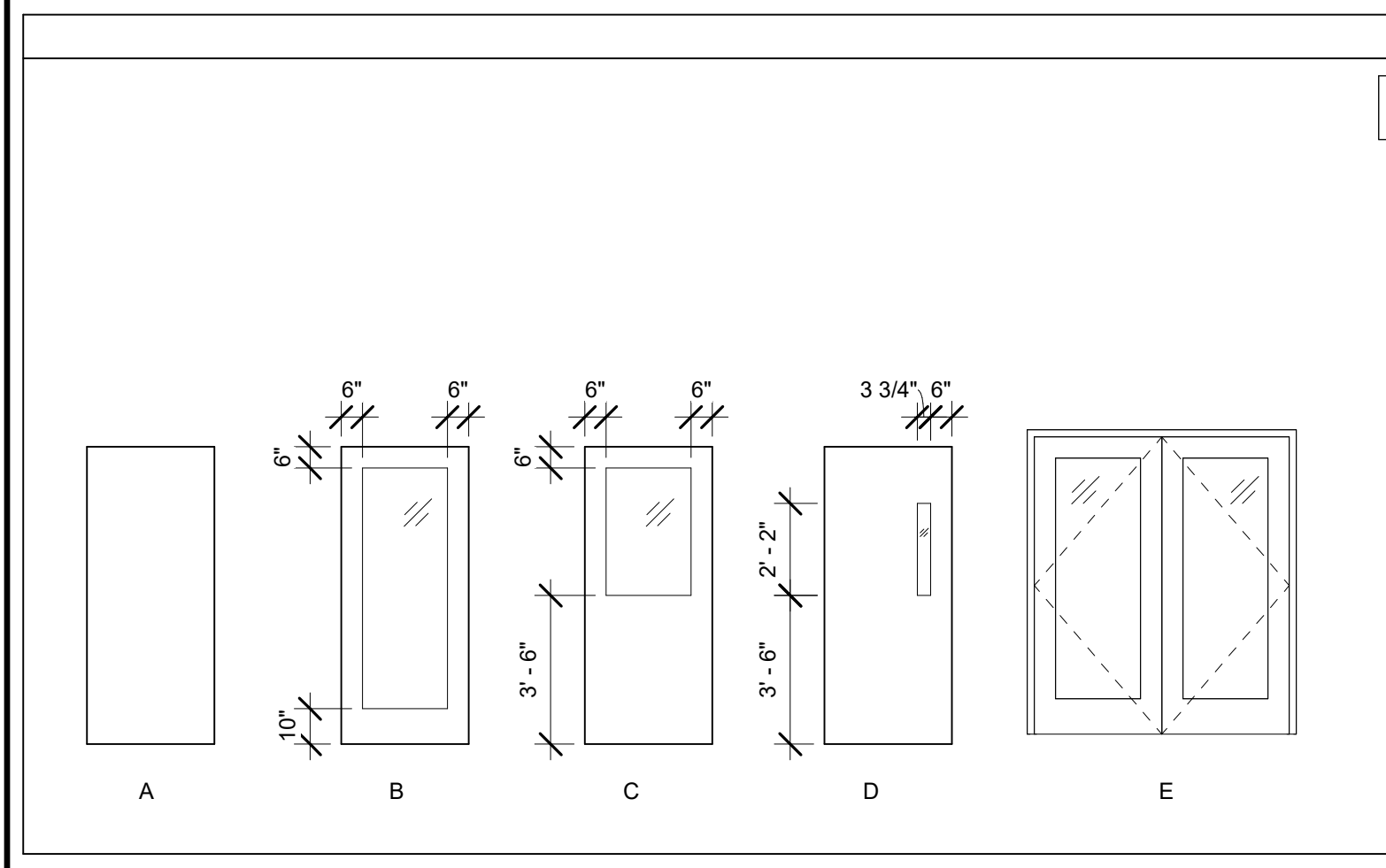
PARTITION TYPE SCHEDULE	
	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON BOTH SIDES OF FRAMING. EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" MOISTURE RESISTANT GWB ON WET SIDE OF FRAMING TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON DRY SIDE OF FRAMING TO UNDERSIDE OF STRUCTURE ABOVE. FILL PARTITION WITH BATT INSULATION.
	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" MOISTURE RESISTANT GWB ON BOTH SIDES OF FRAMING. EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON BOTH SIDES OF FRAMING. EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON ROOM SIDE OF FRAMING. EXTEND FULL HEIGHT.
	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (2) 5/8" GWB ON BOTH SIDES OF FRAMING. EXTEND 6" ABOVE CEILING. FILL PARTITION WITH BATT INSULATION.
	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB TYPE "X" ON ROOM SIDE OF FRAMING. EXTEND FULL HEIGHT.
	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (2) 5/8" MOISTURE RESISTANT GWB ON BOTH SIDES OF FRAMING. EXTEND FULL HEIGHT.
	MASONRY MATCHING EXISTING. FILL EXISTING OPENING. TOOTH INTO EXISTING MASONRY.
	MASONRY MATCHING EXISTING. TOOTH INTO EXISTING MASONRY.
	CONCRETE WALL AROUND WEAPONS VAULT. SEE STRUCTURAL DRAWINGS.
	6" COLD FORMED METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB TYPE "X" ON ROOM SIDE OF FRAMING. EXTEND FULL HEIGHT. MP-3 FASTENED TO EXTERIOR SIDE OF FRAMING.

GLAZING SCHEDULE	
IG-1	INSULATED GLAZING @ EXTERIOR
G-1	MONOLITHIC GLAZING @ INTERIOR

DOOR & OPENING SCHEDULE											
Mark	Door Type	Door Material	Door Finish	Door Width	Door Height	Frame Type	Frame Material	Frame Finish	Glazing	Hardware Set	Comments
101-1	C-A	WD	CLR	4'-6"	8'-0"	1	HM	PTD	G-1	7	
101-2	C-A	WD	CLR	4'-6"	8'-0"	1	HM	PTD	G-1	7	
101-3	E	AL/GL	CLR	8'-0"	8'-2 3/4"	SF	AL	CLR	IG-1	6	SEE STORE FRONT TYPE ELEVATION
102-1	F	MTL	PTD	18'-0"	15'-7"	MTL	MTL	PTD		10	
102-2	A	MTL	PTD	3'-0"	7'-0"	1	HM	PTD		1	
103-1	C-C	WD	CLR	6'-0"	7'-0"	1	HM	PTD	G-1	8	
103-2	A	MTL	PTD	3'-0"	7'-0"	1	HM	PTD		1	
103-3	F	MTL	PTD	12'-0"	10'-0"	MTL	MTL	PTD		10	
104-1	C	WD	CLR	3'-0"	7'-0"	1	HM	PTD	G-1	2	
104-4	A-A	WD	CLR	3'-0"	7'-0"	1	HM	PTD		9	
106-1	A	WD	CLR	3'-0"	7'-0"	1	HM	PTD		4	
107-1	A	WD	CLR	3'-0"	7'-0"	1	HM	PTD		5	
108-1	B	WD	CLR	3'-0"	7'-0"	1	HM	PTD	G-1	5	
114-1	D	WD	CLR	3'-0"	7'-2"	1	HM	PTD	G-1	5	
111-1	A	METAL	PTD	2'-8"	7'-0"	1	HM	PTD		11	EXISTING OPENING
112-1	C	WD	CLR	3'-0"	7'-0"	1	HM	PTD	G-1	2	EXISTING OPENING
113-1	C	WD	CLR	3'-0"	7'-0"	1	HM	PTD	G-1	2	
114-1	C	WD	CLR	3'-0"	7'-2"	1	HM	PTD	G-1	2	
115-1	C	WD	CLR	3'-0"	7'-2"	1	HM	PTD	G-1	2	
116-1	A	WD	CLR	3'-0"	7'-2"	1	HM	PTD		3	
117-1	A	WD	CLR	3'-0"	7'-2"	1	HM	PTD		4	
117A-1	A	WD	CLR	3'-0"	7'-2"	1	HM	PTD		4	
118-1	A	WD	CLR	3'-0"	7'-0"	1	HM	PTD		4	
118A-1	A	WD	CLR	3'-0"	7'-2"	1	HM	PTD		4	
120-1	A	WD	CLR	3'-0"	7'-0"	1	HM	PTD		5	
120-2	A	METAL	PTD	3'-0"	7'-0"	1	HM	PTD		11	
121-1	C	WD	CLR	3'-0"	7'-2"	1	HM	PTD	G-1	1	
121-2	C	METAL	PTD	3'-0"	7'-0"	1	HM	PTD	G-1	1	EXISTING OPENING
122-1	C	WD	CLR	3'-0"	7'-2"	1	HM	PTD	G-1	3	

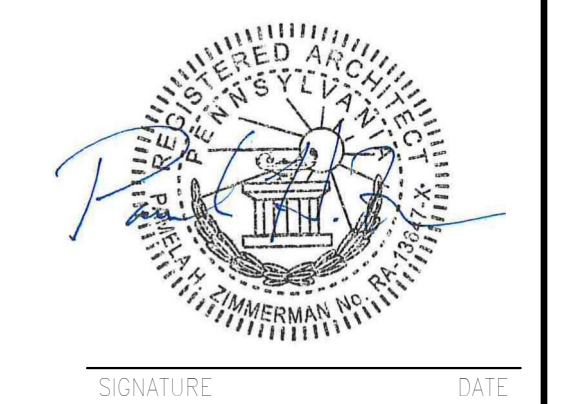
Window Schedule									
Type Mark	Height	Width	Count	Construction Type	Glazing	Operation	Sill Height	Comments	
A	5'-4"	6'-6"	3	ALUMINUM	IG-1	FIXED / FIXED	2'-0"	EXISTING OPENING	
A1	5'-4"	6'-6"	2	ALUMINUM	IG-1	FIXED / FIXED	2'-0"	EXISTING OPENING	
B	5'-2"	4'-0"	1	ALUMINUM	IG-1	FIXED / FIXED	2'-8"	EXISTING OPENING	
C	5'-0"	2'-8"	1	ALUMINUM	IG-1	FIXED	3'-0"	EXST AND NEW OPENING	
D	4'-0"	3'-4"	2	ALUMINUM	IG-1	FIXED	3'-4"	EXST AND NEW OPENING	
E	3'-0"	9'-0"	2	ALUMINUM	IG-1	FIXED / FIXED	7'-0"	EXST AND NEW OPENING	
E1	3'-0"	9'-0"	2	ALUMINUM	IG-1	FIXED / FIXED	7'-0"	EXST AND NEW OPENING	
F	3'-0"	15'-0"	1	ALUMINUM	IG-1	FIXED / FIXED / FIXED	8'-5"	EXST AND NEW OPENING	
G	3'-0"	12'-0"	3	ALUMINUM	IG-1	FIXED / FIXED	8'-5"	EXST AND NEW OPENING	
H	3'-0"	3'-0"	2	ALUMINUM	IG-1	FIXED	7'-0"	NEW OPENING	
I	4'-0"	3'-0"	2	ALUMINUM	G-1	FIXED	3'-0"	INTERIOR	
I	5'-2"	2'-8"	1	ALUMINUM	IG-1	FIXED	2'-8 1/8"	EXST AND NEW OPENING	

NOTE: SEE WINDOW ELEVATIONS BELOW FOR TYPE "F" AND "G"



REV	DATE	DESCRIPTION
01	08/26/2024	DESIGN DEVELOPMENT
02	07/31/2024	REVISION
03	04/15/2024	DESIGN DEVELOPMENT
04	02/27/2024	DESIGN DEVELOPMENT-REVISED

RECORD REVISIONS	
Construction Document	August 26, 2024



ZIMMERMAN STUDIO INC.
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

ABBREVIATIONS, LEGENDS & SCHEDULES

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

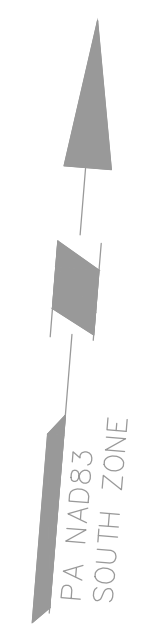
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: IB DATE: 08/26/2024
CHECKED BY: AK SCALE: As Indicated

DRAWING No. G-1.0



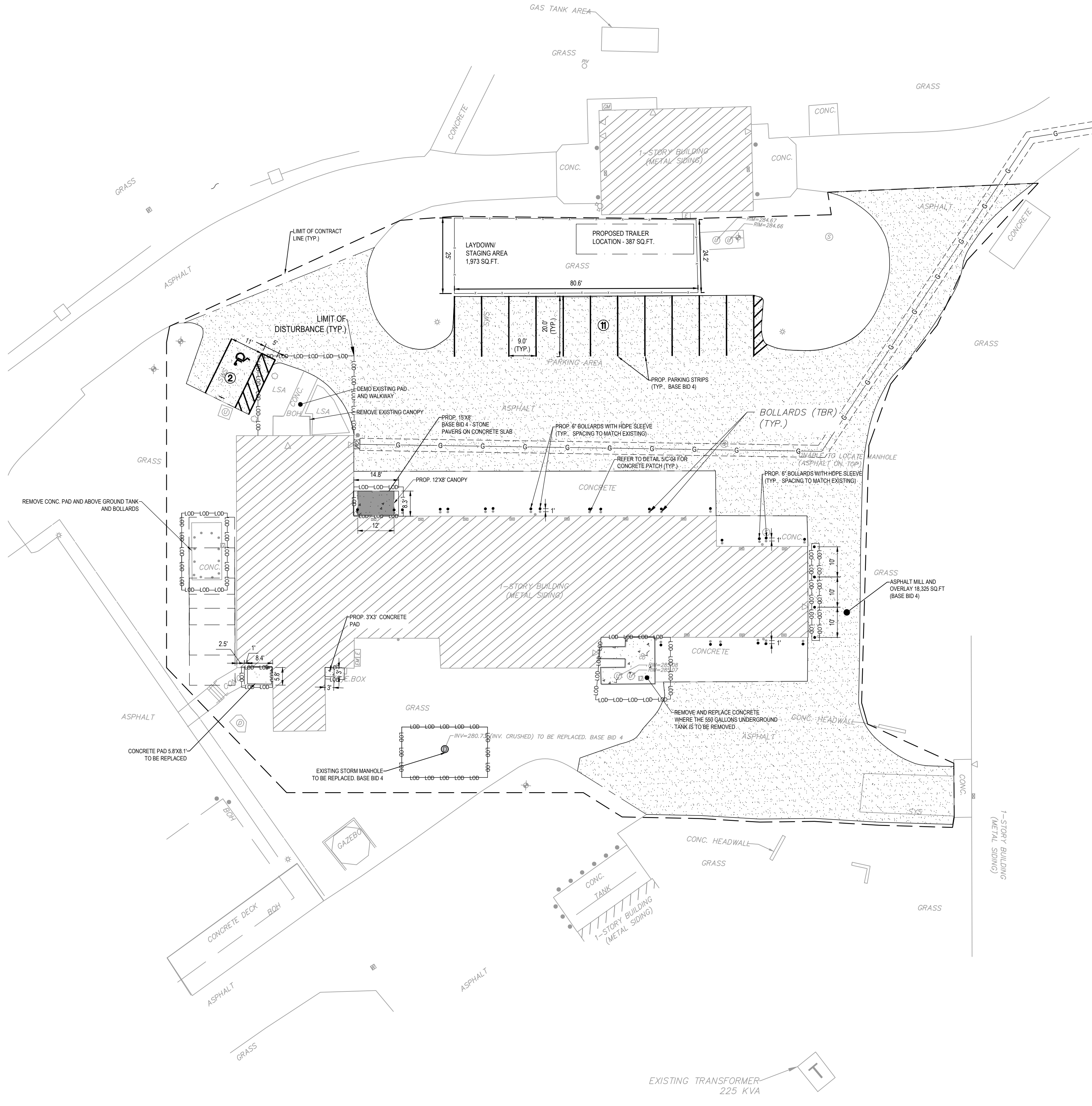
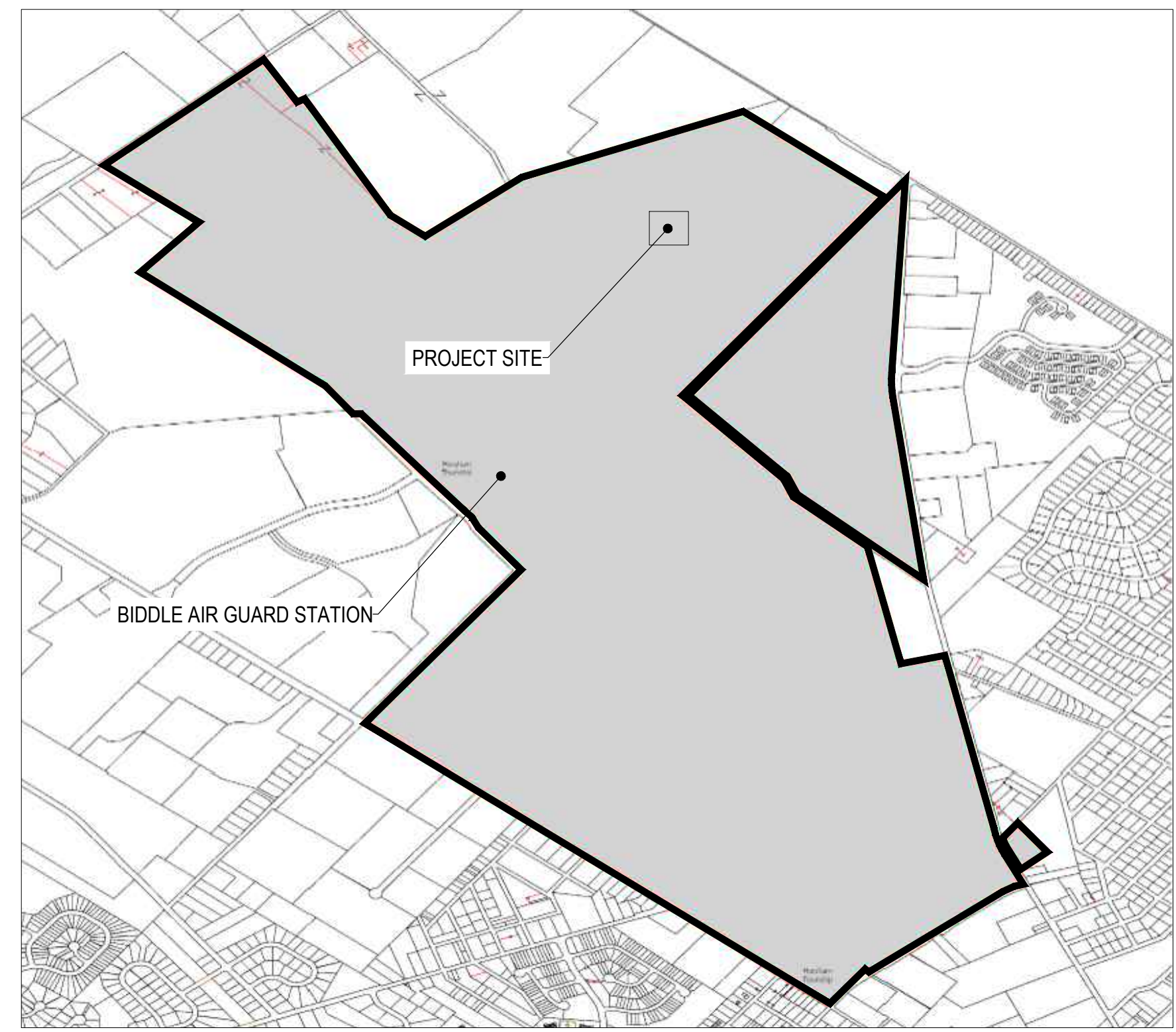
SURVEY NOTES:

- THE SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
 - "SITE PLAN - ELECTRICAL, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
 - "SITE PLAN & DETAILS, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
- TOPOGRAPHIC & UTILITY INFORMATION SHOWN BASED ON A FIELD SURVEY PERFORMED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES DURING AUGUST 2023.

- THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
- OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.
- BOUNDARY, WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
- UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY UNDERGROUND SERVICES, INC.), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
- THIS PLAN IS NOT VALID UNLESS STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL OR DIGITAL SIGNED AND SEALED.

GENERAL NOTES:

- BUILDING 237 IS PART OF BIDDLE AIR GUARD STATION PROPERTY. THE PARCEL ID FOR THE PROPERTY IS 360004050009.
- THE TOTAL TRACT ACREAGE OF THE BIDDLE AIR GUARD STATION PER PROPERTY RECORD IS 1006.32 ACRES
- THE PROPOSED ACREAGE OF THE SITE IMPROVEMENT IS 0.0093 ACRES (404 SQFT)



LEGEND

DEMO

BUILDING OVERHANG	---
CONCRETE PAD	▭
BOLLARD	•

LEGEND

PROPOSED

BUILDING CANOPY	▨
CONCRETE SIDEWALK	▭
SANITARY MANHOLE	⊙
ASPHALT MILL & OVERLAY	▨
BOLLARD	•
GAS LINE	—G—
EDGE OF TRENCH	- - -
LIMITS OF DISTURBANCE	- - -
STAGING/ LAYDOWN AREA	▨
PROPOSED TRAILER	▭
LIMIT OF CONTRACT LINE	---
PROJECT BOUNDARY LINE	---

LEGEND

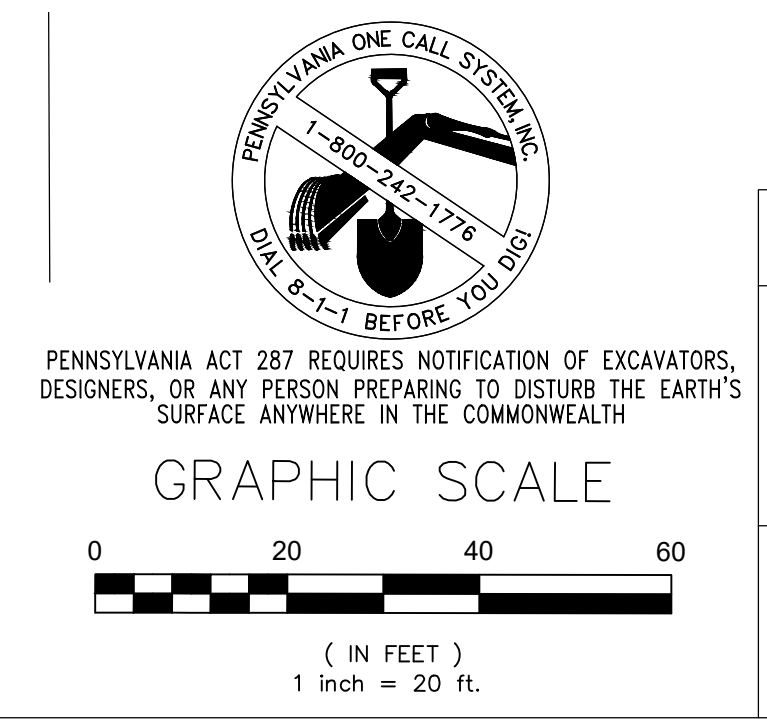
EXISTING

BUILDING	▨
BUILDING OVERHANG	---
WALL	▭
BOLLARD	•
FENCE	---
PAVEMENT MARKING	---
GUARD RAIL	---
LIGHT	⊙
MONITORING WELL	+
GAS METER	⊙
ELECTRIC MANHOLE	⊙
STORM MANHOLE	⊙
SANITARY MANHOLE	⊙
ELECTRIC METER	⊙
FIRE HYDRANT	⊙
ELECTRIC METER	⊙
SEWER	---
DOOR	▷
GAS VALVE	⊙
TREE/ BUSH	⊙

ASPHALT MILL AND OVERLAY GENERAL NOTES:

- HATCHED AREA = 18,325 SQ FT TO MILL & OVERLAY.
- PAINT & RE-STRIPE NEW PARKING LAYOUT.
- AREAS OF DISTURBED GROUND TO BE REGRADED WITH STORM DRAINAGE SLOPE MIN 2% TO MAINTAIN POSITIVE DRAINAGE.
- MATCH UP TO EXISTING PAVING.
- CONTRACTOR TO REMOVE EXISTING BOLLARDS, BACKFILL AND PATCH WITH CONCRETE.

JURISDICTION	# OF PARKING SPOTS	REQUIRED # OF HANDICAP PARKING SPOTS	STALL WIDTH	STALL LENGTH
HORSHAM TOWNSHIP	13	1	9 feet	20 feet



10/11/2024 - ADDENDUM #3	
--------------------------	--

RECORD REVISIONS
Construction Documents - August 26, 2024

COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL ENGINEER
EXPIRES 09-30-2025
JAMES C. GLEATON JR.
ENGINEER
PROFESSIONAL
PENNSYLVANIA
SIGNATURE
10/11/2024
DATE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01

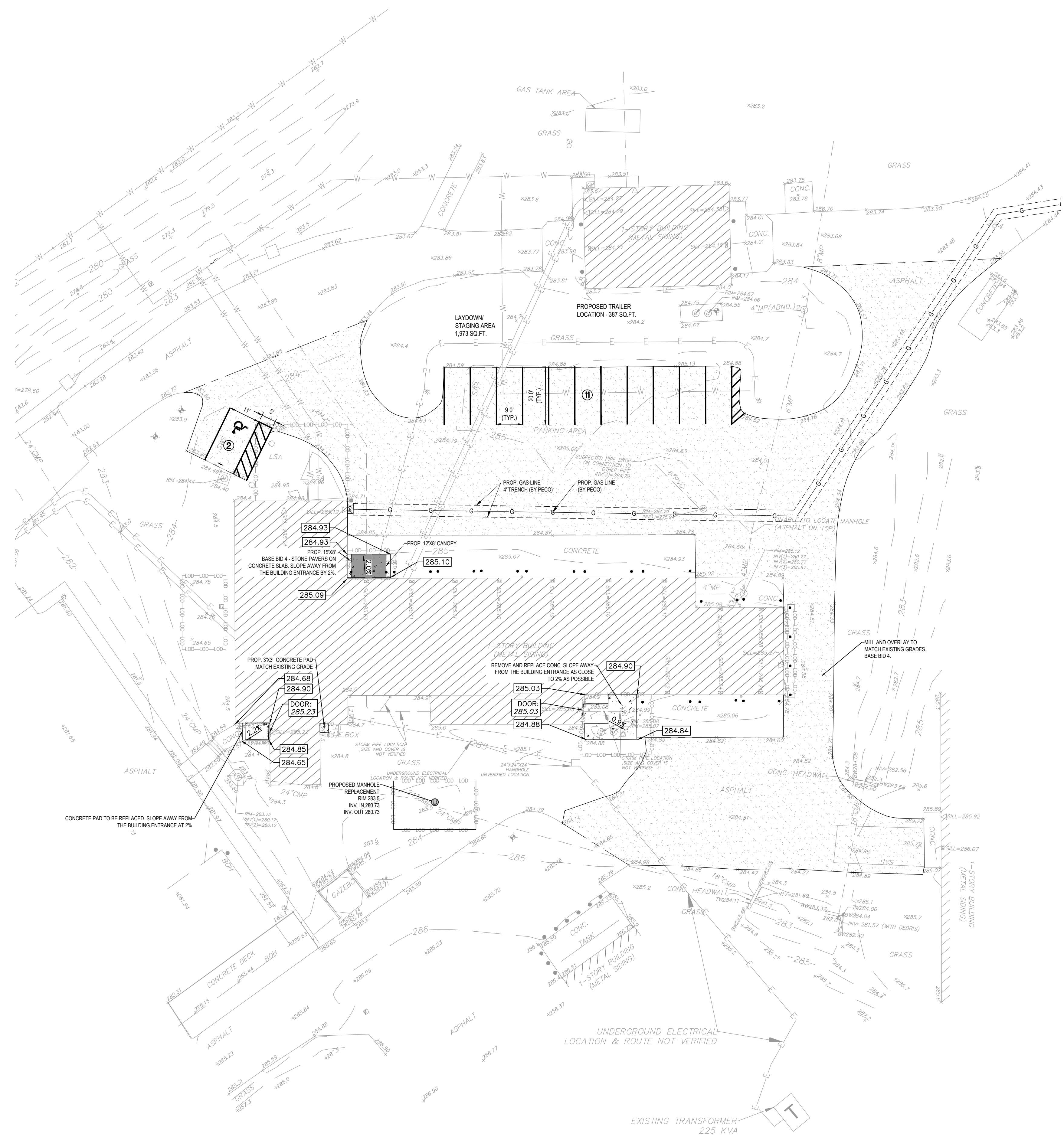
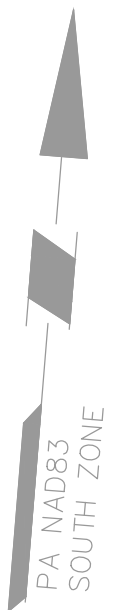
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SITE & DEMO PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY JYL	DATE 08/26/2024	DRAWING No. C-01
CHECKED BY JG	SCALE AS NOTED	

PENNSYLVANIA ONE CALL SYSTEM
1-800-4-A-STATE
CALL BEFORE YOU DIG
PENNSYLVANIA ACT 287 REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.



LEGEND	
EXISTING	
BUILDING	
BUILDING OVERHANG	
WALL	
BOLLARD	
FENCE	
PAVEMENT MARKING	
GUARD RAIL	
LIGHT	
MONITORING WELL	
GAS METER	
ELECTRIC MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
ELECTRIC METER	
FIRE HYDRANT	
ELECTRIC METER	
GAS	
ELECTRIC	
TELEPHONE	
WATER	
SEWER	
DOOR	
GAS VALVE	
TREE/BUSH	
SPOT ELEVATION	0.05
CONTOUR	285

LEGEND	
PROPOSED	
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	
FILTER SOCK	
GAS	
GAS METER	

UTILITY USER LIST ACT NUMBER 287 OF 1974 AS AMENDED	
<p>IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO THE START OF CONSTRUCTION. ADDITIONAL TELECOMMUNICATIONS/FIBER OR OTHER UTILITY PROVIDERS (LISTED BELOW) MAY HAVE FACILITIES WITHIN RENTED, DUCTS AND MAY OR MAY NOT SHOW UP ON THE ONE CALL LIST. IN ADDITION, IF THERE ARE RESPONSES SHOWN AS "CLEAR-NO FACILITIES" TO A ONE CALL REQUEST, THERE STILL MAY BE A CONFLICT.</p>	
<p>PENNSYLVANIA ONE CALL: 1-800-242-1776 SERIAL NO. 2024143927</p>	
<p>HORSHAM TOWNSHIP 1025 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: JOHN RAWLUK PHONE: (215) 643-3131 FAX: (215) 643-0448 EMAIL: JRAWLUK@HORSHAM.ORG</p>	<p>HORSHAM WATER AND SEWER AUTHORITY - MAIN OFFICE 617 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: MICHAEL HEALEY PHONE: (215) 672-8011 EMAIL: CONTACT@HORSHAMWATER-SEWER.COM</p>
<p>PECO ENERGY C/O USIC 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA 19066 CONTACT: NIKKIA SIMPKINS EMAIL: NIKKIASIMPKINS@USICLLC.COM</p>	<p>TRANSCONTINENTAL GAS/ WILLIAMS GAS 99 FARMER RD PRINCETON, NJ 08540 CONTACT: JUSTIN ADAMS EMAIL: JUSTIN.ADAMS@WILLIAMS.COM</p>
<p>COMCAST 4400 WAYNE AVENUE PHILADELPHIA, PA 19140 CONTACT: ROBERT HARVEY EMAIL: BOB_HARVEY@CABLE.COMCAST.COM 1 APOLLO ROAD PLYMOUTH MEETING, PA 19062 CONTACT: TOM DEMSEY</p>	<p>VERIZON PENNSYLVANIA LLC 1050 VIRGINIA DR FORT WASHINGTON, PA 19034 CONTACT: VICTOR WOOD EMAIL: VICTOR.S.WOOD@BONE.VERIZON.COM</p>

<p>HID SET 08/26/2024 CONSTRUCTION DOCUMENTS 07/31/2024 CONSTRUCTION DOCUMENTS 04/15/2024 DESIGN DEVELOPMENT - REVISED 02/27/2024</p>	<p>DESIGN DEVELOPMENT 01/26/2024</p>
---	--

RECORD REVISIONS
Construction Documents - August 26, 2024

	<p>PROFESSIONAL ENGINEER EXPIRES 09-30-2024 SIGNATURE 08/26/2024 DATE</p>
--	---

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

GRADING & UTILITY

<p>DRAWN BY JYL</p>	<p>DATE 07/08/2024</p>	<p>DRAWING No. C-02</p>
<p>CHECKED BY JC</p>	<p>SCALE AS NOTED</p>	

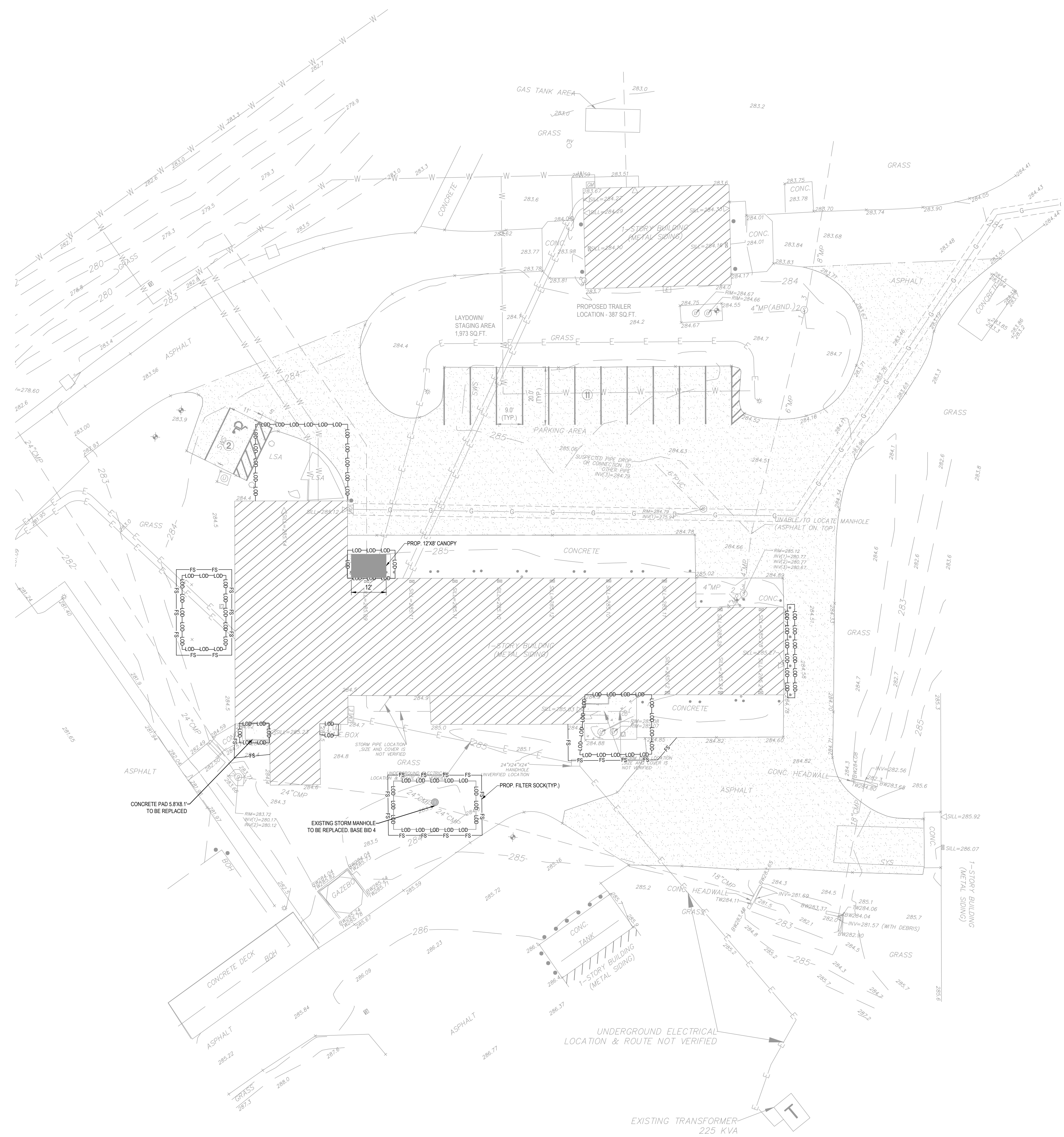
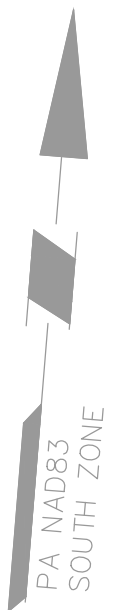
PENNSYLVANIA ONE CALL SYSTEM
 CALL 811 BEFORE YOU DIG

PENNSYLVANIA ACT 287 REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

GRAPHIC SCALE
 0 20 40 60
 (IN FEET)
 1 inch = 20 ft.

VERIFY SCALE
 BAR IS ONE (1) INCH LONG
 ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG,
 ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.



LEGEND	
EXISTING	
BUILDING	
BUILDING OVERHANG	
WALL	
BOLLARD	
FENCE	
PAVEMENT MARKING	
GUARD RAIL	
LIGHT	
MONITORING WELL	
GAS METER	
ELECTRIC MANHOLE	
STORM MANHOLE	
SANITARY MANHOLE	
ELECTRIC METER	
FIRE HYDRANT	
ELECTRIC METER	
GAS	
ELECTRIC	
TELEPHONE	
WATER	
SEWER	
DOOR	
GAS VALVE	
TREE/BUSH	
SPOT ELEVATION	
CONTOUR	

LEGEND	
PROPOSED	
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	
FILTER SOCK	
GAS	
GAS METER	

REV. SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	-REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT - REVISED 02/27/2024	

RECORD REVISIONS
Construction Documents - August 26, 2024

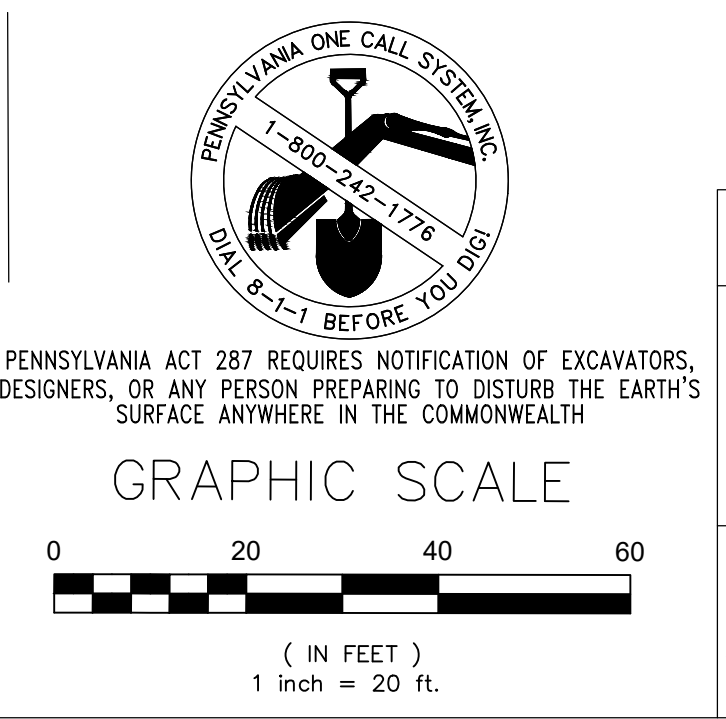
JAMES C. GLEATON JR.
 PROFESSIONAL ENGINEER
 08/26/2024
 DATE

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

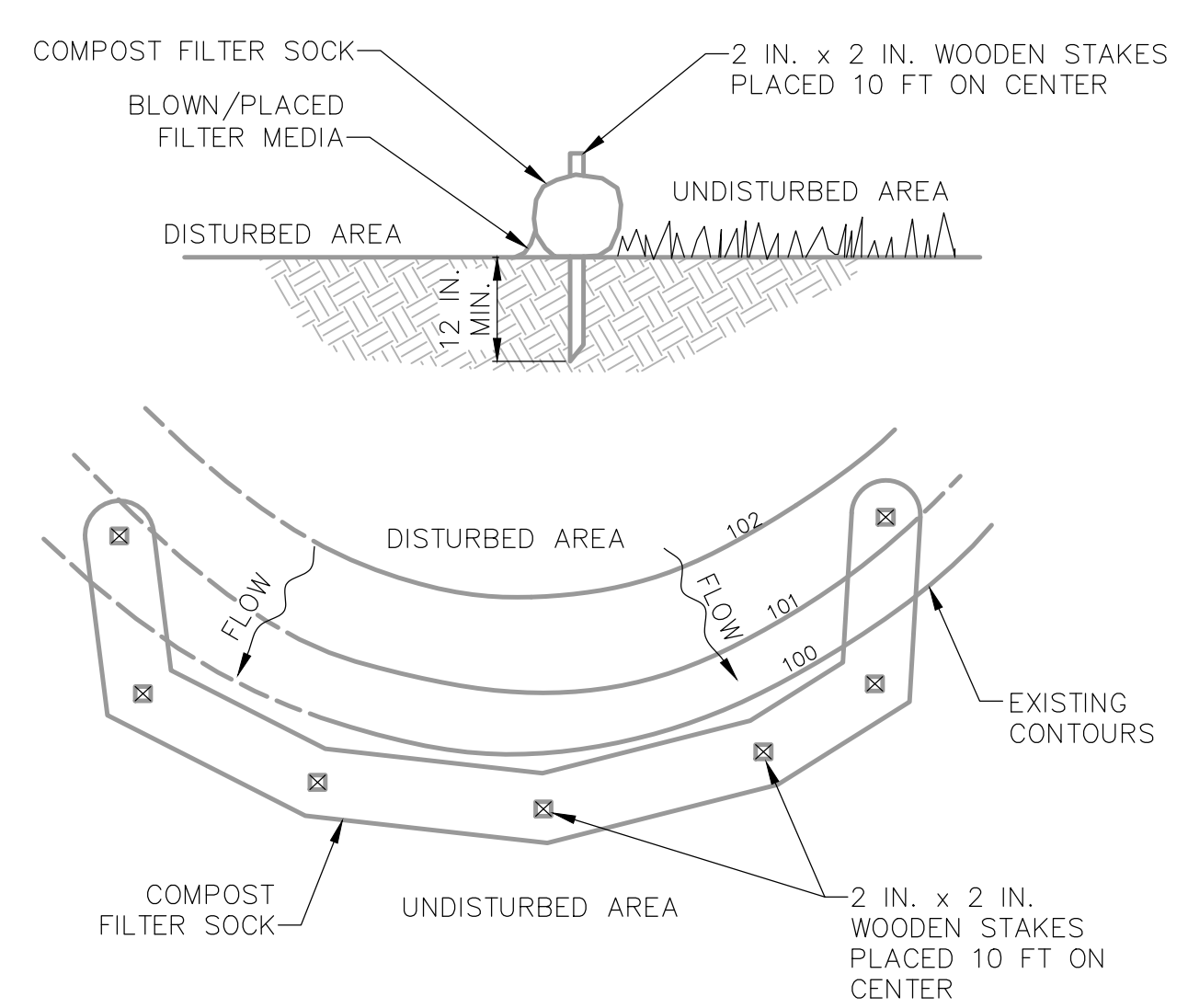
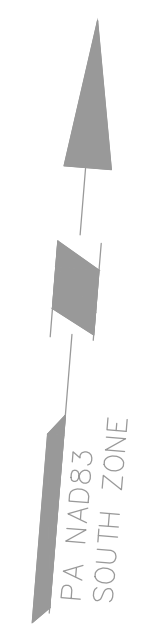
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

EROSION CONTROL

DRAWN BY JYL	DATE 07/08/2024	DRAWING No. C-03
CHECKED BY JC	SCALE AS NOTED	

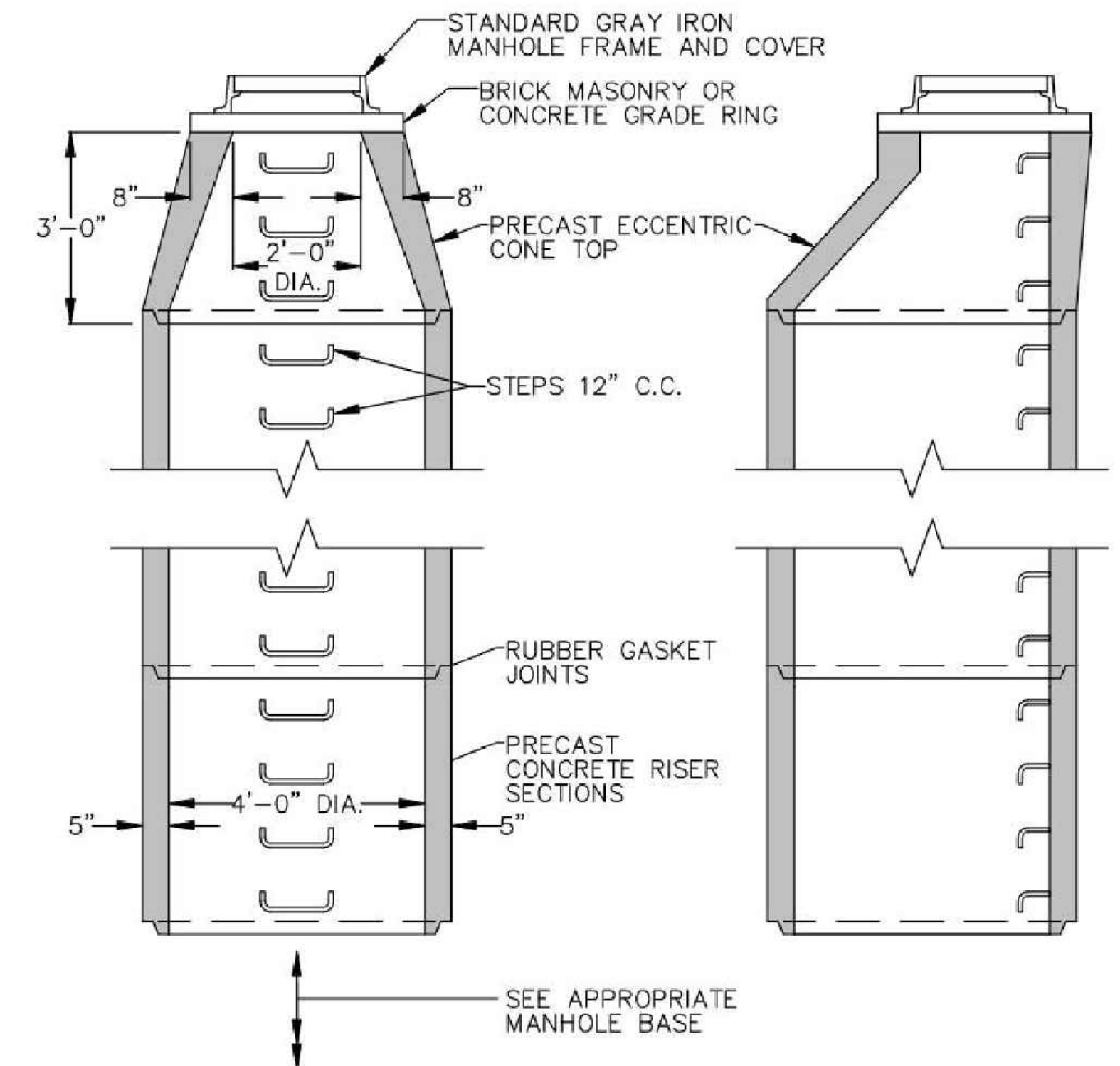


VERIFY SCALE
 BAR IS ONE (1) INCH LONG
 ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG,
 ADJUST SCALE ACCORDINGLY
 CONTRACTOR SHALL FIELD VERIFY
 ALL DIMENSIONS.
 VARIANCE FROM CONTRACT
 DOCUMENTS NOT PERMITTED
 WITHOUT PROFESSIONAL & BUREAU
 OF CONSTRUCTION APPROVAL.

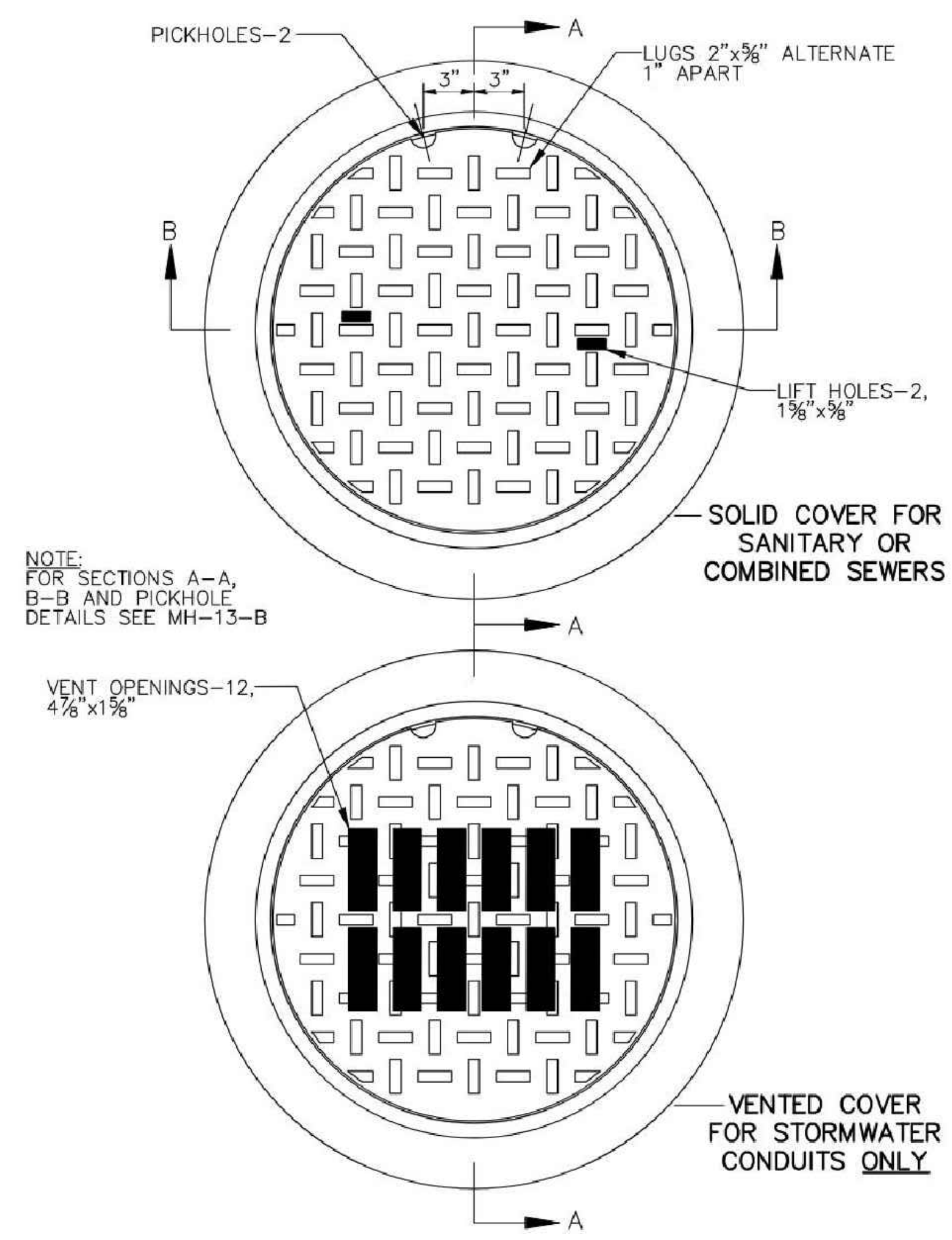


NOTES:
 SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
 COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
 TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
 ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

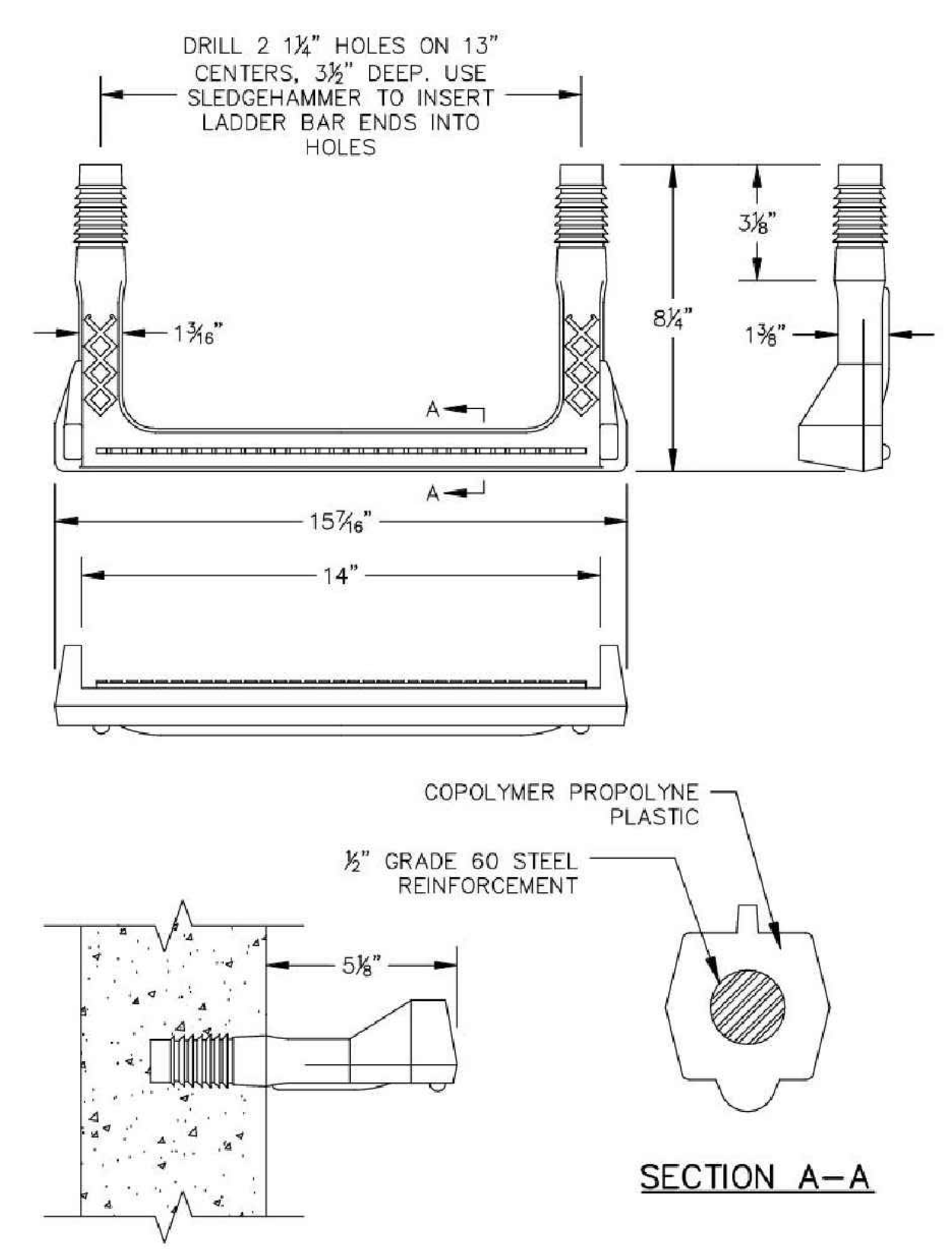
1 TYPICAL COMPOST FILTER SOCK DEVICE ON SOIL
 C-04 NTS



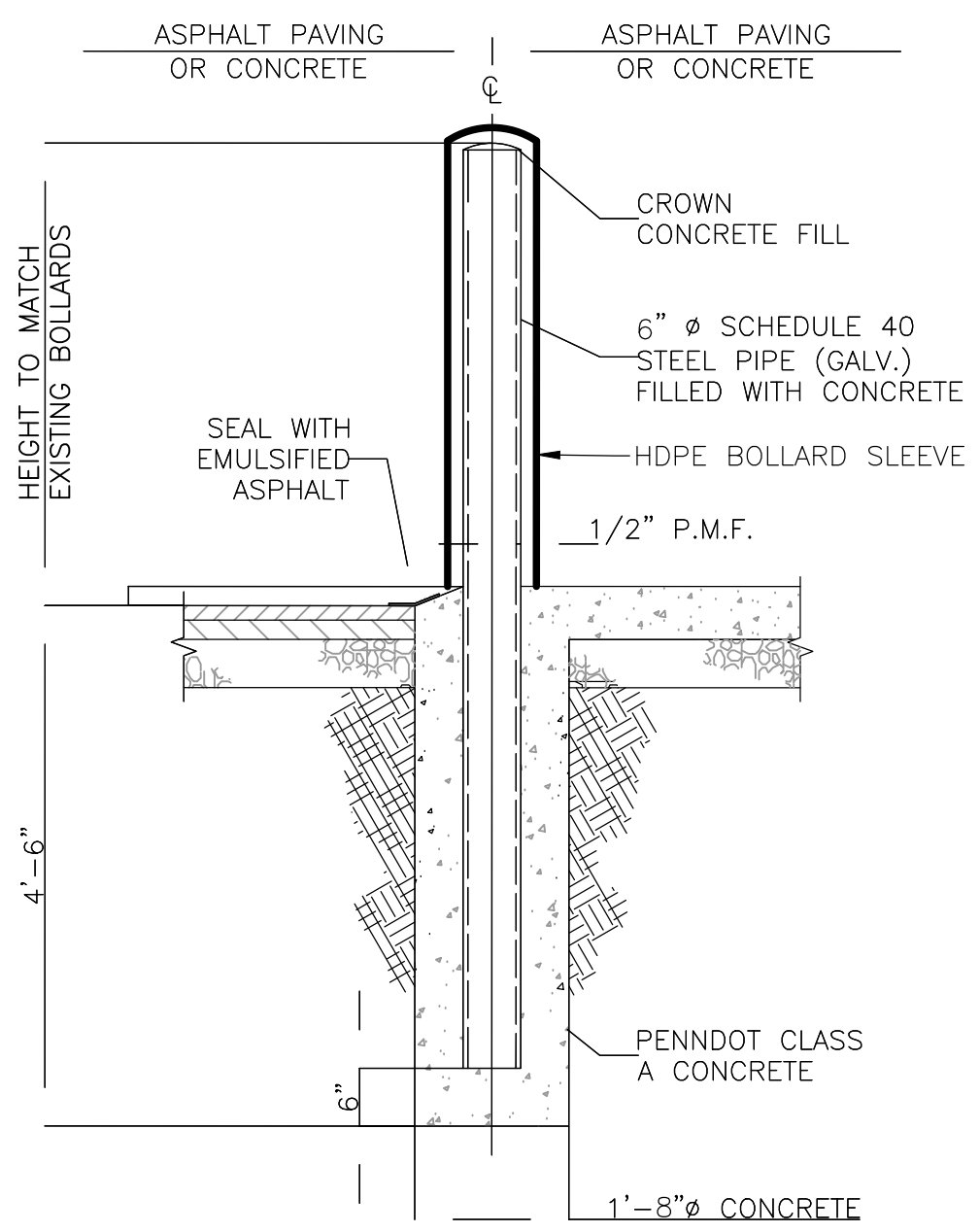
2 TYPICAL PRECAST CONCRETE MANHOLE RISER AND CONE
 C-04 NTS



3 GRAY IRON MANHOLE FRAME AND COVERS
 C-04 NTS

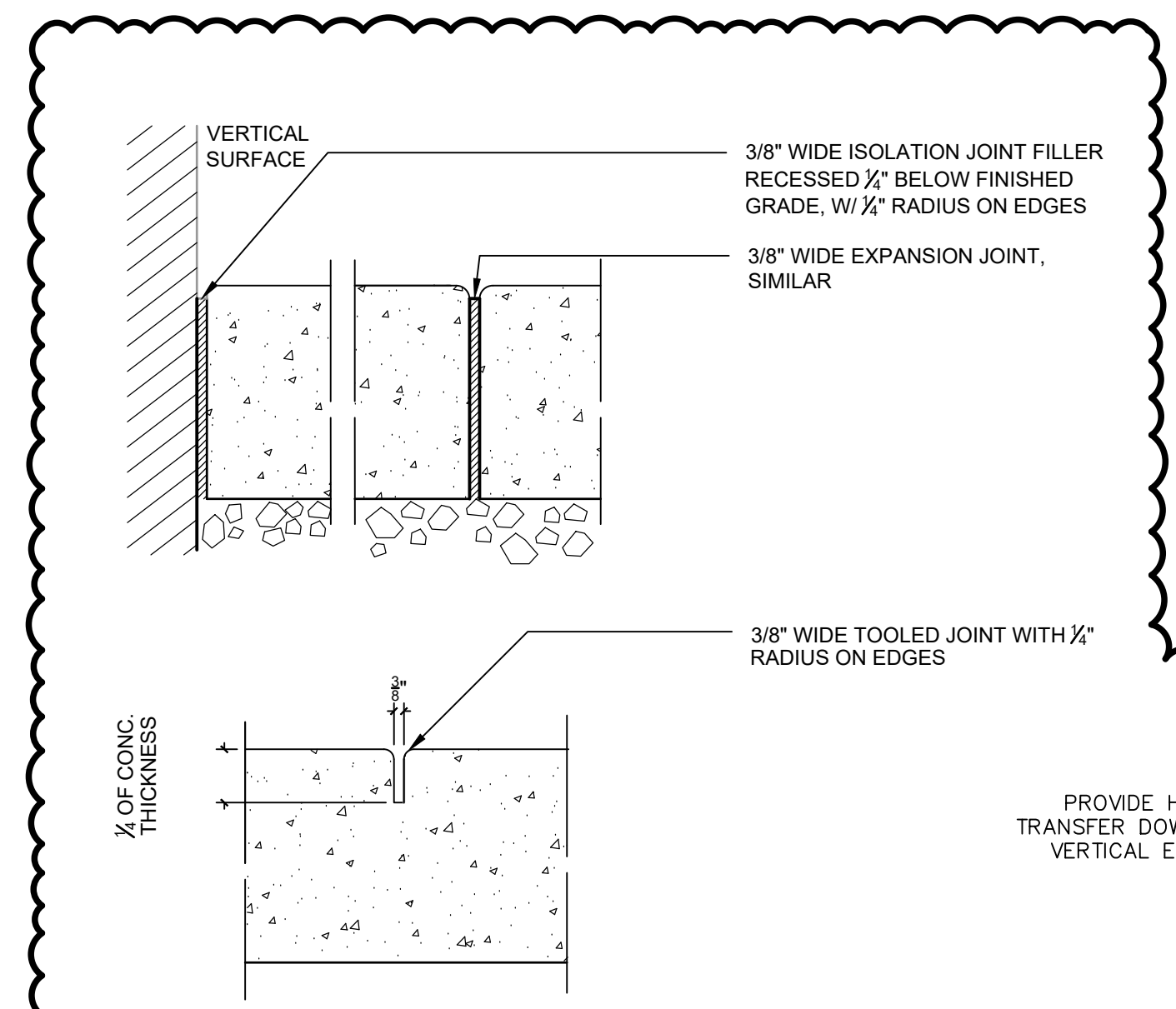


4 TYPICAL MANHOLE STEPS
 C-04 NTS

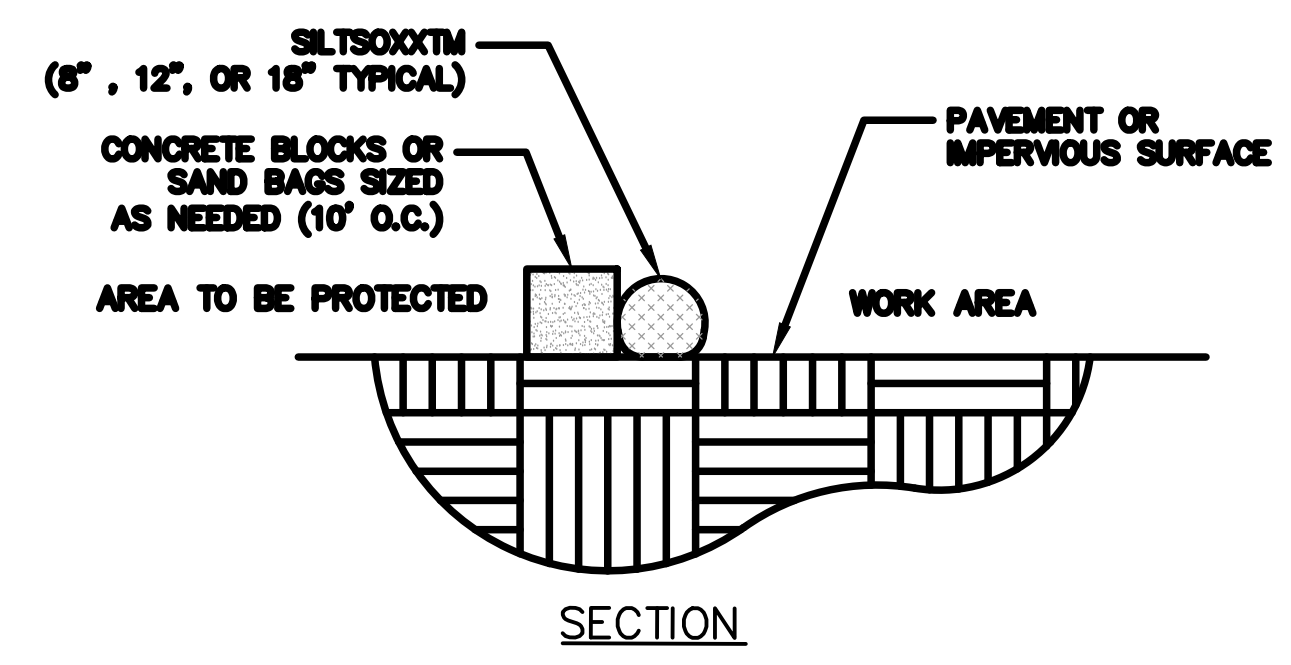


NOTES:
 1. PREPARE AND PRIME GALVANIZED BOLLARDS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION OR APPROVED EQUAL.
 2. PREPARE AND APPLY EXTERIOR PAINT IN ACCORDANCE WITH MANUFACTURER'S EXTERIOR PAINTING SPECIFICATION OR APPROVED EQUAL, COLOR TO BE DETERMINED BY OWNER.

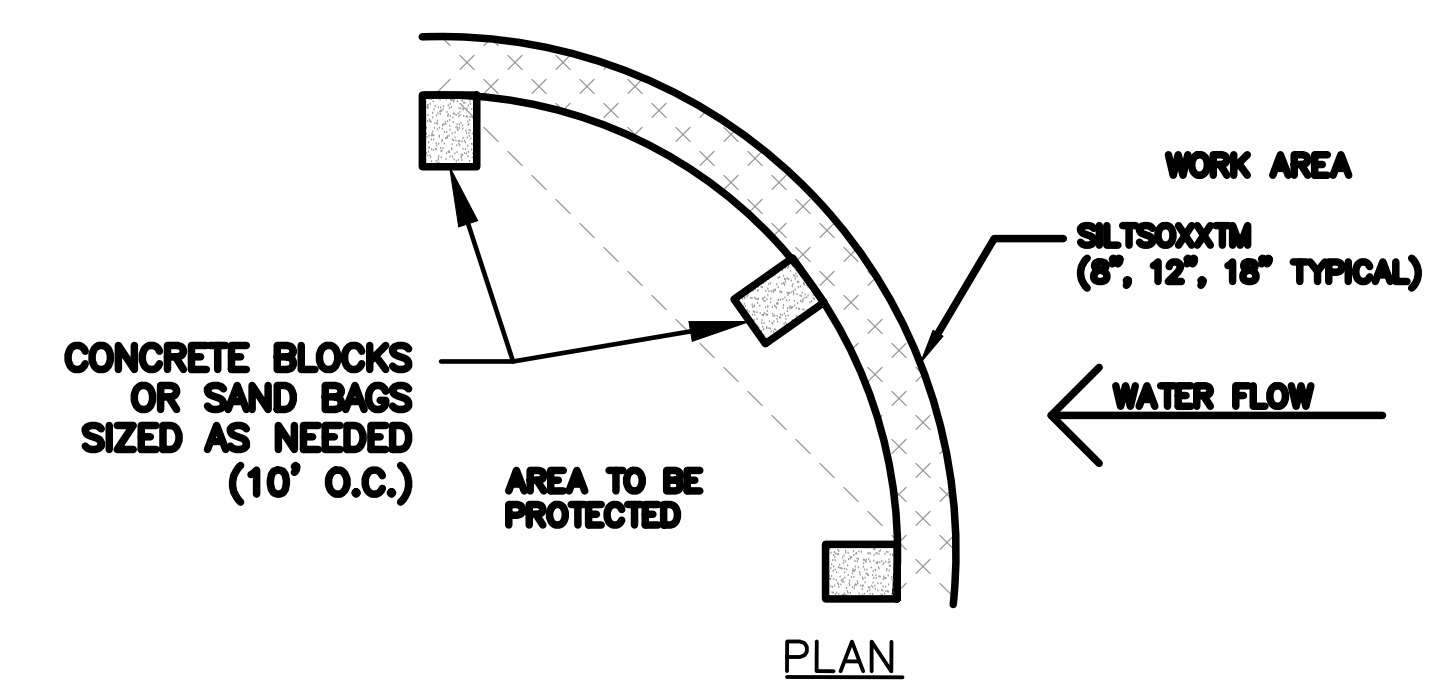
6 TYPICAL BOLLARD DETAIL
 C-04 NTS



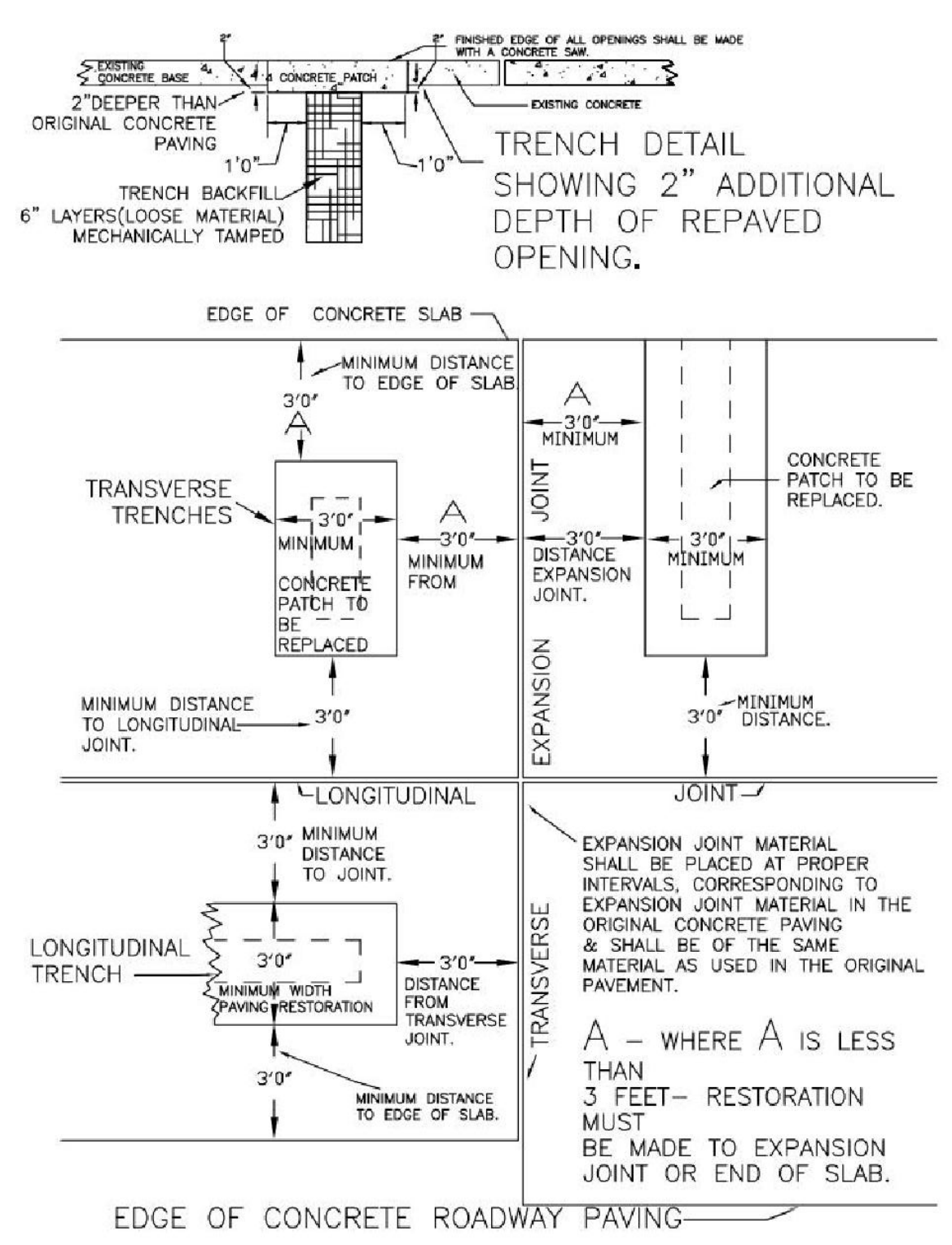
8 CONCRETE JOINT DETAIL
 C-04 SCALE: NOT TO SCALE



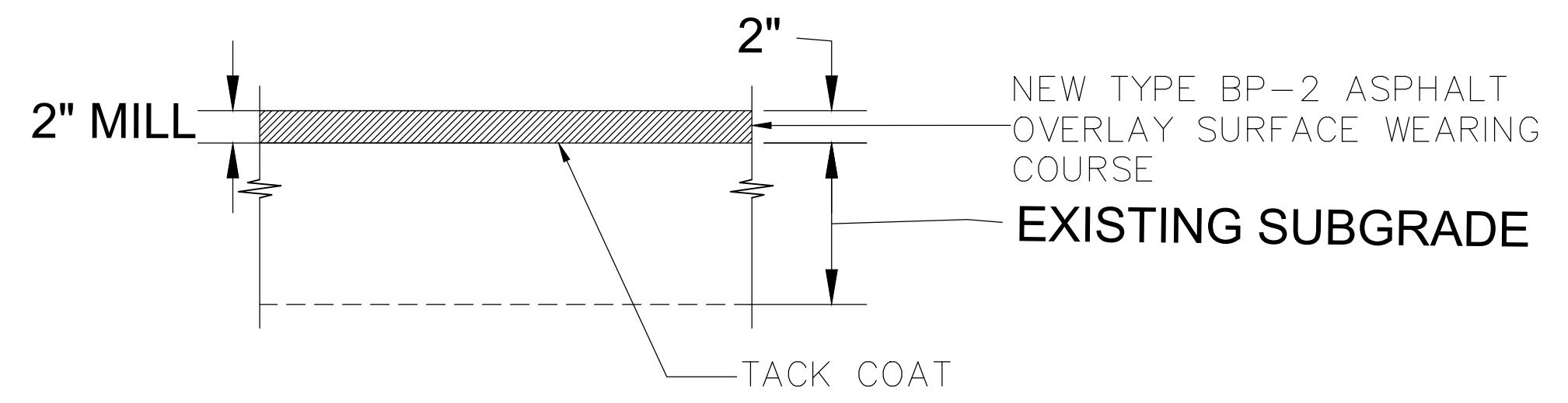
9 TYPICAL COMPOST SOCK SEDIMENT CONTROL DEVICE
 C-04 NTS



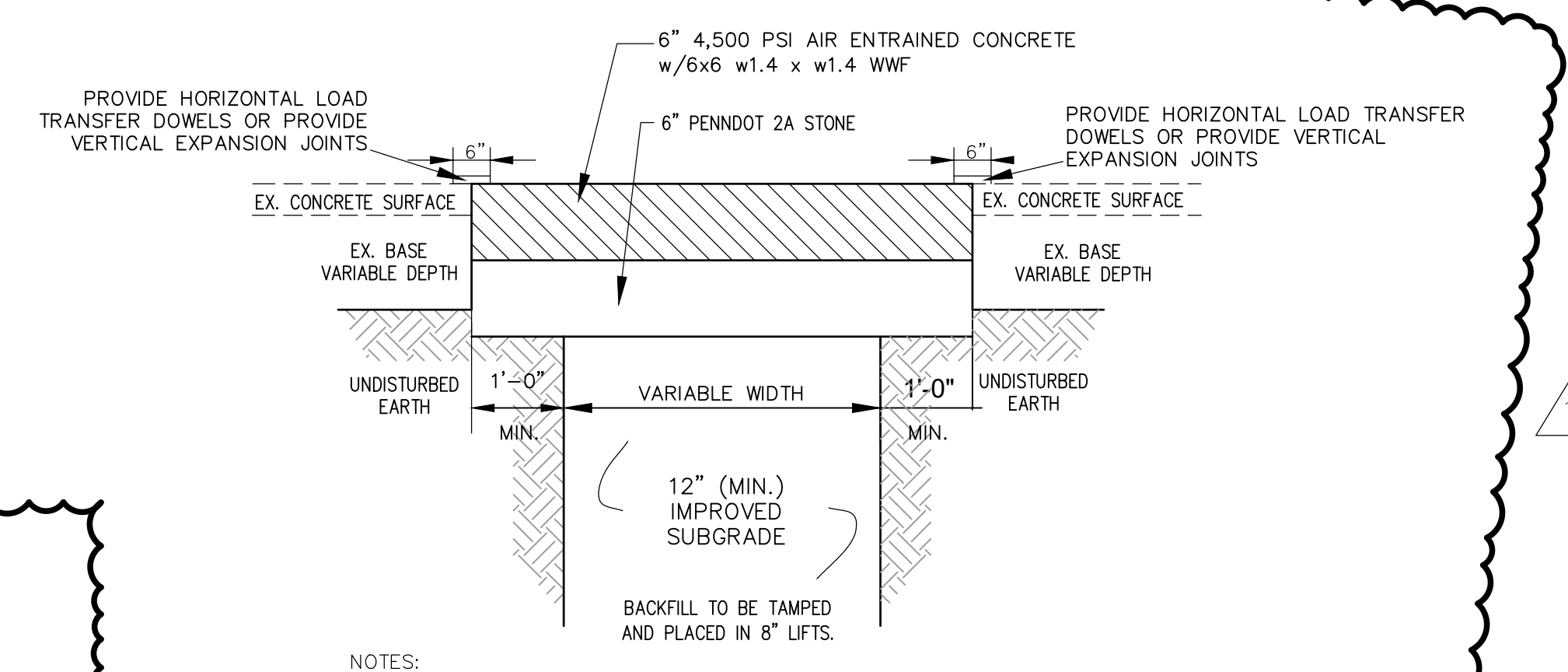
10 RESTORATION OF CONCRETE PAVEMENT DETAIL
 C-04 SCALE: NOT TO SCALE



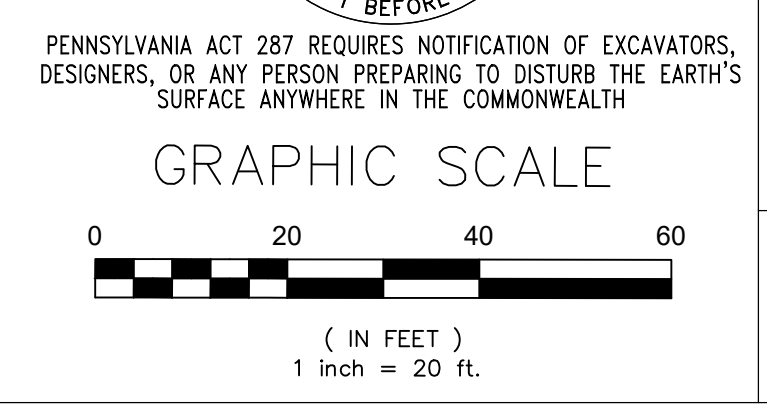
5 TYPICAL RESTORATION CONCRETE ROADWAY
 C-04 NTS



7 TYPICAL MILL AND OVERLAY
 C-04 NTS



NOTES:
 1. SAW CUT & SQUARE ALL EDGES.
 2. TACK COAT ALL EDGES PRIOR TO PLACEMENT OF BITUMINOUS MATERIAL.



VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

10/11/2024 - ADDENDUM #3	
--------------------------	--

RECORD REVISIONS
 Construction Documents - August 26, 2024

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA
 D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

CIVIL DETAILS
 DRAWN BY: JYL DATE: 08/26/2024 DRAWING No: C-04
 CHECKED BY: JG SCALE: AS NOTED

10/11/2024
 COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA
 D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044
CIVIL DETAILS
 DRAWN BY: JYL DATE: 08/26/2024 DRAWING No: C-04
 CHECKED BY: JG SCALE: AS NOTED

PART 1 - DESIGN CRITERIA / GENERAL REQUIREMENTS

- 1.1 DESIGN CRITERIA
 1. BUILDING CODE: ICC INTERNATIONAL BUILDING CODE, 2018 EDITION
 2. DESIGN LOADS:
 - a. DEAD LOAD: MATERIAL SELF-WEIGHT
 - b. LIVE LOAD: 100 PSF
 3. WIND LOAD:
 - a. BASIC WIND SPEED: 115 MPH
 - b. WIND IMPORTANCE FACTOR, (Iw): 1.0
 - c. WIND EXPOSURE: B
 4. INTERNAL PRESSURE COEFFICIENT: ±0.18
 4. SEISMIC LOAD:
 - a. SEISMIC DESIGN CATEGORY: B
 - b. SS = 0.188g S1 = 0.048g D
 - c. SITE CLASS: D
 - d. SDS = 0.201 SD1 = 0.078
 5. EQUIVALENT LATERAL FORCE PROCEDURE:
 - a. SNOW LOAD:
 - GROUND SNOW LOAD, (Pg): 25 PSF
 - SNOW EXPOSURE FACTOR, (Ce): 0.9
 - SNOW IMPORTANCE FACTOR, (Cs): 1.0
 - SNOW THERMAL FACTOR, (Ct): 1.0
- 1.2 THE PLAN AND DETAILS HEREIN ARE BASED ON LIMITED SITE OBSERVATIONS AND EXISTING DRAWINGS. ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 1.3 GENERAL REQUIREMENTS
 - A. CONSTRUCTION MEANS AND METHODS
 1. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD DAVID MASON & ASSOCIATES HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DAVID MASON & ASSOCIATES.
 2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, EARTH RETENTION SYSTEMS, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY DAVID MASON & ASSOCIATES SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
 3. THE CONTRACT DOCUMENTS DO NOT ACCOUNT FOR THE EFFECTS OF THERMAL MOVEMENT OF STRUCTURAL ELEMENTS DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSIDERING THE IMPACT OF THERMAL MOVEMENTS DURING CONSTRUCTION. EXPANSION JOINTS INDICATED ON THE CONTRACT DOCUMENTS ARE LOCATED AND DIMENSIONED AS REQUIRED FOR THE COMPLETED STRUCTURE.
 4. DAVID MASON & ASSOCIATES SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
 5. DAVID MASON & ASSOCIATES SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAVID MASON & ASSOCIATES SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
 6. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR.
 - B. EXISTING CONDITIONS
 1. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AS REQUIRED TO BID AND COMPLETE THE WORK.
 2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION. ANY EXISTING DIMENSIONS AND ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS ARE NOT AS-BUILT DIMENSIONS, BUT WERE OBTAINED FROM THE ORIGINAL STRUCTURAL DRAWINGS OR OTHER DRAWINGS AND DOCUMENTS MADE AVAILABLE BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS REQUIRED PRIOR TO BEGINNING FABRICATION, CONSTRUCTION, ETC.
 3. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REPLACEMENT / RELOCATION OF ANY NON-STRUCTURAL ELEMENTS NECESSARY TO COMPLETE THE STRUCTURE. FOLLOW ALL APPLICABLE CODES, SPECIFICATIONS, AND REQUIREMENTS OF AFFECTED TRADES. CONSIDERATION OF THIS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
 - C. SUBMITTALS
 1. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
 2. REPRODUCTION OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS IS NOT PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO CONTRACTOR.
 3. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY DAVID MASON & ASSOCIATES TO DETERMINE ADEQUACY OF THE STRUCTURE.
 5. ALL SUBMITTALS REVIEWED BY DAVID MASON & ASSOCIATES ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. ANY ACTION INDICATED IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING AND CONFIRMING DIMENSIONS AT THE JOB SITE, CHOICE OF FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATION OF THE WORK WITH THAT OF OTHER TRADES.
 - D. QUALITY REQUIREMENTS
 1. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
 2. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
 3. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, DAVID MASON & ASSOCIATES, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO DAVID MASON & ASSOCIATES OR ANY OF DAVID MASON & ASSOCIATES' CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
 4. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 5. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER, PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 6. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 7. STRUCTURAL DOCUMENTS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS DURING SHOP DRAWINGS AND INCORPORATING INTO THE WORK.
 8. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
 9. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
 - E. CONTRACTOR'S DELEGATED DESIGN
 1. CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA. FOR PERMANENT BUILDING COMPONENTS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER. IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO ARCHITECT. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED:
 - a. TEMPORARY BRACING AND SHORING
 - b. COLD-FORMED METAL FRAMING

PART 2 - LIGHT GAUGE STEEL FRAMING

- 2.1 COLD-FORMED METAL FRAMING SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH "AISI S200 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" AND "AISI S100 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (EDITEDS REFERENCED BY APPLICABLE BUILDING CODE)
- 2.2 ALL FRAMING SHALL BE GALVANIZED, IN CONFORMANCE WITH ASTM A653, G-60 (OR EQUIVALENT). TOUCH UP ALL WELDS AND DAMAGED AREAS WITH APPROVED GALVANIZING TOUCH UP PAINT.
- 2.3 ALL CONNECTION SHALL BE WELDED U.N.O WELDING SHALL BE IN ACCORDANCE WITH (AWS)D1.3, STRUCTURAL WELDING CODE - SHEET STEEL
- 2.4 FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2.5 PROVIDE 2 ROWS OF BRIDGING BETWEEN WALL STUDS UP TO 10'-0" TALL AND AT A MAXIMUM SPACING OF 3'-4" ABOVE 10'-0" TALL
- 2.6 STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
- 2.7 SPLICES IN STUDS SHALL NOT BE PERMITTED. DO NOT CUT STUDS.
- 2.8 RIDE CLIPS SHALL BE CAPABLE OF RESISTING A LATERAL FORCE OF 500LBS
- 2.9 ANCHOR STUD TRACKS WITH LOW-VELOCITY POWDER ACTUATED FASTENERS WITH A MINIMUM SHANK DIAMETER OF 0.145" AND A MINIMUM PENETRATION OF 1-1/8"
- 2.10 PROVIDE 4" O.C., MEN. THROUGHOUT
- 2.11 LOCATE ANCHORS AT 3" FROM THE END OF WALLS, AND AT 16" O.C. MAX., 4" O.C., MEN. THROUGHOUT

- 2.12 PROVIDE 5/4 MILL TRACK AT TOP AND BOTTOM OF STUD WALLS, AND AT THE HEADERS FOR STUD WALLS
- 2.13 ENGINEERING DESIGN AND SHOP DRAWINGS - COLD-FORMED FRAMING
 - A. ALL COLD-FORMED METAL FRAMING AND ASSOCIATED CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA.
 - B. UNIFORM DESIGN LOADS SHALL BE AS SPECIFIED IN THE DESIGN CRITERIA OF THESE GENERAL NOTES.
 - C. CONCENTRATED DESIGN LOADS BE AS SPECIFIED IN THE DESIGN CRITERIA SECTION OF THESE GENERAL NOTES.
 - D. CONCENTRATED DESIGN LOADS FOR MECHANICAL EQUIPMENT AND SPRINKLER LINES SHALL BE CONSIDERED, IN ADDITION TO THE UNIFORM DESIGN LOADS. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - E. COLD-FORMED METAL FRAMING SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING DATA:
 1. NAME, SIGNATURE, AND SEAL OF THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN.
 2. LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED METAL FRAMING, FABRICATION, AND FASTENING AND ANCHORAGE DETAILS; INCLUDING MECHANICAL FASTENERS.
 3. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRACES, ACCESSORIES, CONNECTION, DETAILS AND ATTACHMENT TO ADJOINING WORK.

PART 3 - CONCRETE

- 3.1 STANDARDS:
 - A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (318-14).
 - B. ACI 350 CODE REQUIREMENTS FOR CONCRETE LIQUID CONTAINMENT CRST HANDBOOK STRUCTURES (ACI 350-20)
 - C. CRSI HANDBOOK (2024)
- 3.2 ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI 318-18 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
- 3.3 MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
 1. UNFORMED SURFACE PERMANENTLY IN CONTACT WITH THE GROUND.....3"
 2. FORMED SURFACES EXPOSED TO EARTH OR WEATHER.....2"
 - a. #6 BAR AND LARGER.....2"
 - b. #5 BAR AND SMALLER.....1-1/2"
 3. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER.....1-1/2"
 - a. WALLS, SLABS.....3/4"
 - b. BEAMS, GIRDER AND COLUMNS (TO TIES OR STIRRUPS).....1-1/2"
- 3.4 AGGREGATES SHALL BE AS FOLLOWS:
 1. FINE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33
 2. COARSE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE WITHOUT FLAT OR ELONGATED PIECES AND SHALL CONFORM TO ASTM C33.
 3. LIGHT WEIGHT AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND CONFORM TO ASTM C330.
- 3.5 CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

ALL CONCRETE, U.N.O	STRENGTH (PSI)	DENSITY (PCF)
4,000	145	

- 3.6 REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED. WELDED WIRE REINFORCING SHALL BE ASTM A185 AND SHALL BE CONTACT LAP SPICED AND WIRID TOGETHER AT LEAST 2" AT SIDES AND 6" AT ENDS
- 3.7 DOWELS IN WALL FOOTING SHALL BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS. DOWELS MUST BE ANCHORED OR TIED IN POSITION BEFORE PLACING CONCRETE. PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE.
- 3.8 FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 3.9 ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBERS.
- 3.10 THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS MUST BE REFERRED TO FOR ALL MECHANICAL FLOOR REQUIREMENTS, HOUSEKEEPING PADS AND EQUIPMENT INERTIA BASES, AND THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING OF SLEEVES, OUTLET BOXES, ANCHORS, ETC. THAT MAY BE REQUIRED.
- 3.11 PIPES, SLEEVES OR SLOTS SHALL NOT RUN THROUGH ANY BEAM OR GIRDER UNLESS SIZE AND LOCATION HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
 1. CONDUIT AND PIPES EMBEDDED IN WALLS SHALL BE NO LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL MEMBER THICKNESS OR 2" MAXIMUM, AND SHALL BE PLACED NO CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.
 2. CONDUIT AND PIPES, WITH THEIR FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF THE COLUMN CROSS SECTION.
- 3.12 ADHESIVE FOR POST-INSTALLED REINFORCING DOWELS INTO CONCRETE SHALL HAVE A MINIMUM ALLOWABLE ADHESIVE BOND OF 6818 TENSION AND 28185 SHEAR. EMBEDMENT LENGTH SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

#3 BARS -- 4.5"	#7 BARS -- 10.5"
#4 BARS -- 6.0"	#8 BARS -- 12.0"
#5 BARS -- 7.5"	
#6 BARS -- 9.0"	
- 3.13 MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION.
- 3.14 ALL REINFORCING SHALL LAPPED OR DOWELED IN ACCORDANCE WITH ACI 318 AS FOLLOWS, UNLESS NOTED OTHERWISE:
 1. SPLICE BARS WITH CONTACT LAPS, UNLESS NOTED OTHERWISE.
 - USE CLASS B SPLICES, UNLESS NOTED OTHERWISE.
 - USE CLASS A SPLICES FOR DOWEL EMBEDMENT LENGTH.
 2. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED WORK.
- 3.15 SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
- 3.16 ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD OTHERWISE BE IN CONTACT WITH STEEL.
- 3.17 PROVIDE WATERSTOPS IN BELOW GRADE CONSTRUCTION JOINTS AND AT OTHER LOCATIONS AS INDICATED.
- 3.18 FOOTINGS MAY BE EARTH FORMED AT CONTRACTOR'S OPTION.
- 3.19 PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
 1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS, GRADE BEAMS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING.
 2. PROVIDE #4 SLAB DOWELS AT 12" OC AT DOORS, UNLESS OTHERWISE NOTED.
 3. BARS AT OPENINGS IN SLABS AND WALLS: PROVIDE BARS WITH AREA EQUAL TO INTERRUPTED REINFORCING, PLACE 1/4 AT EACH SIDE OF OPENING.
- 3.20 CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0" APART, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINT LOCATIONS SHOULD BE PROVIDED TO THE STRUCTURAL ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK.
- 3.21 THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT. NOTICE SHALL BE GIVEN NOT LESS THAN 24 HOURS PRIOR TO CONCRETE PLACEMENT.
- 3.22 SLABS-ON-GRADE:
 - A. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS AT 15 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.)
 - B. FLOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR FINISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED.
 - C. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER.
 - D. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
 - E. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.
- 3.23 SLABS-ON-METAL DECK (COMPOSITE AND NON-COMPOSITE)
 - A. CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL PLACE CONCRETE FOR SLABS SO THAT THE FINISHED SURFACE IS SCREENED LEVEL TO AN ELEVATION WITHIN 1/4" OF THE TOP OF SLAB ELEVATION WITHIN 10' OF THE PERIMETER. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY.
 - B. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #2 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING.
 - C. FLOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR FINISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED.
 - D. CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT SO AS TO CONTROL FINISH ELEVATIONS WITHIN THE SPECIFIED LIMITS.
 - E. SEE COMPOSITE BEAM NOTES FOR SHORING REQUIREMENTS AT COMPOSITE SLABS.

PART 4 - REINFORCED MASONRY

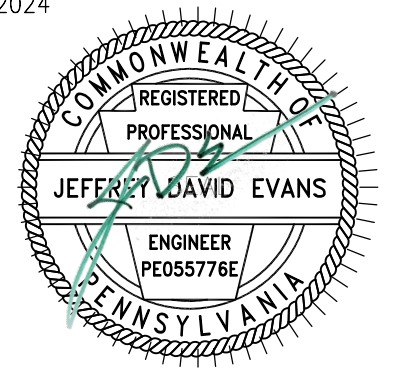
- 4.1 GENERAL
 - A. MASONRY CONSTRUCTION SHALL COMPLY WITH THE ACI "BUILDING CODE FOR MASONRY STRUCTURES" -TMS 402-2016.
 - B. PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS THE FOLLOWING MINIMUM NET-AREA COMPRESSIVE STRENGTH (Fm) AT 28-DAYS: 2000 PSI.
 - C. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL BE PROPORTIONED WITH A SLUMP OF 8" TO 11" USING 3/8" NOMINAL MAXIMUM SIZE COURSE AGGREGATE.
 - D. MORTAR SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C270 AND BE OF THE FOLLOWING TYPES:

BEARING WALLS:	TYPE M
INTERIOR NON-BEARING:	TYPE N
- 4.2 REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
- 4.3 REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
- 4.4 PROVIDE STANDARD LADDER (OR TRUSS) TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951, SPACED AT 16" ON CENTER, UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED CORNER AND TEE UNITS AT CORNERS AND INTERSECTIONS. ALL JOINT REINFORCING SHALL BE OF TYPE 304 STAINLESS STEEL COMPLYING WITH ASTM A167 OR SHALL BE GALVANIZED AS FOLLOWS:
 1. ALL JOINT REINFORCEMENT IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
 2. ALL JOINT REINFORCEMENT IN INTERIOR WALLS SHALL BE MILL GALVANIZED
- 4.5 PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT BOND BEAM CORNERS AND INTERSECTIONS.
- 4.6 MASONRY SHALL BE Laid IN RUNNING BOND UNLESS NOTED OTHERWISE.
- 4.7 RAKE BORTAR AND CUT 50% OF HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
- 4.8 BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
- 4.9 DOWELS FROM CAST-IN-PLACE CONCRETE SHALL MATCH THE VERTICAL REINFORCEMENT IN THE WALL ABOVE UNLESS NOTED OTHERWISE. SUCH DOWELS SHALL BE FURNISHED BY THE CONCRETE CONTRACTOR.
- 4.10 REINFORCING ENTIRELY WITHIN THE MASONRY SHALL BE FURNISHED BY THE MASONRY CONTRACTOR.
- 4.11 REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (OR 24" MINIMUM) WITH CONTACT LAP SPLICES. JOINT REINFORCING SHALL BE LAPPED 6".
- 4.12 VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS NOTED OTHERWISE. BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCING.
- 4.13 VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY OR ADJACENT BARS AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS NOT SPLICED. GROUT VERTICAL REINFORCED CELLS AND BOND BEAMS SOLID. GROUT SOLID ALL ADDITIONAL CELLS AS NOTED ON DRAWINGS.
- 4.14 REINFORCING STEEL SHALL BE SECURED IN PLACE AND INSPECTED BEFORE GROUTING STARTS.
- 4.15 VERTICAL GROUTING MAY BE EITHER "LOW LIFT" OR "HIGH LIFT" AT THE CONTRACTOR'S OPTION. GROUT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 530.
- 4.16 ALL VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2" X 3".
- 4.17 GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY IN THE JOINT.
- 4.18 GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
- 4.19 ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS SHALL BE GROUDED SOLID IN POSITION.
- 4.20 REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF DOOR AND WINDOW OPENINGS FOR SPECIAL COURSING AND OTHER MASONRY DETAILS. THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS INTENDED TO DEFINE THE STRUCTURAL REQUIREMENTS ONLY.
- 4.21 CONDUITS, PIPES, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. MAXIMUM AREA OF VERTICAL CONDUITS, PIPES, OR SLEEVES PLACED IN COLUMNS OR PILASTERS SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET CROSS SECTION.
- 4.22 SEE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR MASONRY VENEER ANCHORS.

BID SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	
07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT REVISED	
02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



8-26-2024

SIGNATURE DATE

ZIMMERMAN STUDIO inc.
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

GENERAL NOTES

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY	DATE	DRAWING No.
	TR	04/15/2024	S-0.01
	CHECKED BY	SCALE	
	JE	AS NOTED	

SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS			
<p>GENERAL The Owner will engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by Chapter 17 of the 2015 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official and/or the owner.</p>			
<p>SPECIAL INSPECTION REPORT REQUIREMENTS Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract 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, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.</p>			
<p>REQUIRED SPECIAL INSPECTIONS The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.</p>			

SOILS			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X	
2. Verify excavations are extended to proper depth and have reached proper material.		X	
3. Perform classification and testing of compacted fill materials.		X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		X	
<p>Remark Notes: 1. Reference the approved geotechnical report as noted in Structural General Notes and specifications.</p>			

MICROPILE (HELICAL) PILE FOUNDATION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Observe installation operations and record the installation equipment used, pile locations, pile dimensions, tip elevations, final depth, and final installation torque.	X		
2. Verify that correct micropile material and sizes; load transfer brackets or devices; and load transfer bracket or device fasteners are used.		X	
3. Load transfer bracket and anchors.		X	
4. Verify compliance with the Geotechnical Report and construction documents.	X		
<p>Remark Notes: 1. Reference the approved geotechnical report as noted in Structural General Notes and specifications.</p>			

SHOTCRETE WALLS			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity, placement and details around openings in wall.		X	
2. Verify that formwork is plum and properly braced or tied together to maintain position, shape, location and dimensions.		X	
3. Verify that concrete surface to receive shotcrete has been thoroughly cleaned and roughened. (Bonding agents are not allowed)		X	
4. Verify that nozzleman is ACI certified for the application used. (dry mix, wet mix, vertical, or overhead)	X		
5. Inspection of shotcrete placement for proper application techniques.	X		
6. Verify rebound was removed prior to placing initial or succeeding layer of shotcrete.		X	
7. Verify that wall thickness complies with approved submittals.	X		
8. Perform additional inspections of concrete per "Concrete Construction" table of Special Inspection Tables.			
9. Perform additional inspections and test in accordance with the construction documents.			Frequency per construction documents

SOIL NAIL ANCHOR for SHOTCRETE WALL			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspect tieback/soil nail installation to verify size, anchor length, number of strands, nail size and coating, elevation, and angle of installation as applicable.	X		
2. Inspect grouting of tiebacks/soil nails.	X		
3. Inspect length of bonded zone.	X		
4. Grouting samples.		X	
5. Ensure that all hydraulic jacks used to preform anchor tensioning have current calibration and the gauge is calibrated to appropriate increments.		X	
6. Inspect contractor's proof test or performance test tieback/soil nail.		X	
7. Verify that lock off loads are consistent with approved plans and specifications.		X	
8. Review all contractor's data regarding installation and testing of tieback anchors/soil nails.		X	

CONCRETE CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.		X	
2. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.		X	
3. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
4. Verify use of required design mixture.		X	
5. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
6. Inspection of concrete placement, including conveying and depositing.	X		
7. Inspection of curing procedures and maintenance of curing temperatures.		X	
8. Verification of concrete strength before removal shores and forms from beams and slabs.		X	
9. Verification that approved shop drawings are being used on site.		X	
<p>Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced Concrete.</p>			

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		X	
2. Review of installer's qualifications and verification of on-site installation training, including certification by anchor manufacturer.		X	* See Note 1
3. Anchor installation process as noted in general notes and scanning is used to locate and miss existing concrete reinforcing & post-tensioning strands.			* See Note 2
4. Verification of supporting material's condition, and scanning is used to locate and miss existing concrete reinforcing and post-tensioning strands.		X	
5. Proof testing as outlined in general notes.		X	
<p>Remark Notes: 1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report. 2. Refer to manufacturer's ESR report for type of inspection periodic vs. continuous.</p>			

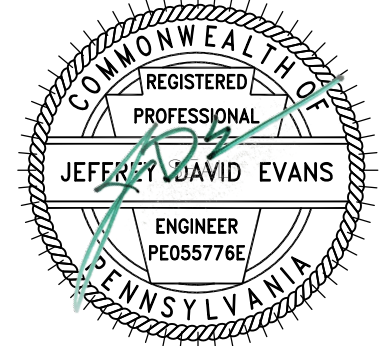
MASONRY CONSTRUCTION (LEVEL B QUALITY ASSURANCE)			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X	
2. Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction.		X	
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.		X	
4. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar and grout.		X	
b. Placement of masonry units and construction of mortar joints.		X	
c. Location of reinforcement and control joints.		X	
5. Prior to grouting, verify that the following are in compliance:			
a. Grout space.	X		
b. Grade, type and size of reinforcement and anchor bolts.		X	
c. Placement of reinforcement.		X	
d. Proportions of site-prepared grout.		X	
e. Construction of mortar joints.		X	
6. Verify during construction:			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X		
c. Welding of reinforcement (if permitted).	X		
d. Preparation, construction and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F).		X	
e. Placement of grout.	X		
7. Preparation of any required grout specimens and/or prisms shall be observed.	X		

STEEL CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Material verification of high-strength bolts, nuts, and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X	
b. Manufacturer's certificate of compliance required.		X	
2. Inspection of high-strength bolting:			
a. Snug-tight joints.		X	
b. Thru bolted joints—using scanning to locate and miss existing concrete reinforcing & post-tensioning strands.		X	
c. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.		X	
d. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X		
3. Material verification of structural steel and cold-formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360.			X
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.			X
c. Manufacturer's certified test reports.			X
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved construction documents.			X
b. Manufacturer's certificate of compliance required.			X
5. Inspection of structural steel welding and cold-formed steel deck welding or fastening:			
a. Complete and partial joint penetration groove welds.	X		
b. Multi-pass fillet welds.	X		
c. Single-pass fillet welds greater than 5/16 inches thick.	X		
d. Plug and slot welds.	X		
e. Single-pass fillet welds less than or equal to 5/16 inches thick.		X	
f. Floor and roof deck attachment and side lap fasteners.		X	
g. Use of qualified welders for Demand Critical Welds.		X	
h. Welding Procedures Specification (WPS) followed for Demand Critical Welds.		X	
i. Welding techniques for Demand Critical Welds.		X	
j. Protected zones.		X	Verify that no holes or unapproved weld attachments are made within the protected zone.
6. Inspection of steel frame joint details such as bracing and stiffening, member locations, and application of joint details at each connection for compliance with approved construction documents.			X
7. Inspection of installation of open web steel joists:			
a. End connections - welding or bolting.		X	Reference SJI specification
b. Bridging - horizontal or diagonal.			
1. Standard bridging.		X	Reference SJI specification
2. Bridging that differs from the SJI specifications listed in IBC Chapter 22.		X	
8. Verification that approved shop drawings are being used on site.			X
<p>Remark Notes: 1. Reference specification AISC 360 for steel elements in addition to any specifications as identified by IBC Chapter 22.</p>			

TILT-UP CONCRETE CONSTRUCTION			
SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Review plant operations and quality control procedures.		X	
2. Inspect concrete batching operations and verify compliance with approved mix design.		X	
3. Inspect formwork for shape, location and dimensions of concrete members formed.		X	
4. Inspection of steel reinforcement, including size, spacing, quantity, placement and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials.		X	
5. Inspect anchors and embeds cast in tilt-up concrete and verify embedment lengths.		X	
6. Verify use of required design mixture.		X	
7. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
8. Inspection of concrete placement, including conveying and depositing.	X		
9. Inspecting of curing procedures and maintenance of curing temperatures.		X	
10. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
11. Inspect erection of tilt-up concrete members including welded connections, placement of bearing pads, placement of expansion joint materials, and placement of joint sealants.		X	
12. Inspection of anchors installed in hardened concrete.		X	See "Post Installed Anchors" table
13. Verification that approved shop drawings are being used on site.		X	
14. Inspection of anchor connection between tilt-up elements and foundation system on site.		X	
15. Inspection of anchor connections between tilt-up elements.		X	
<p>Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced Concrete.</p>			

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



8-26-2024
SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

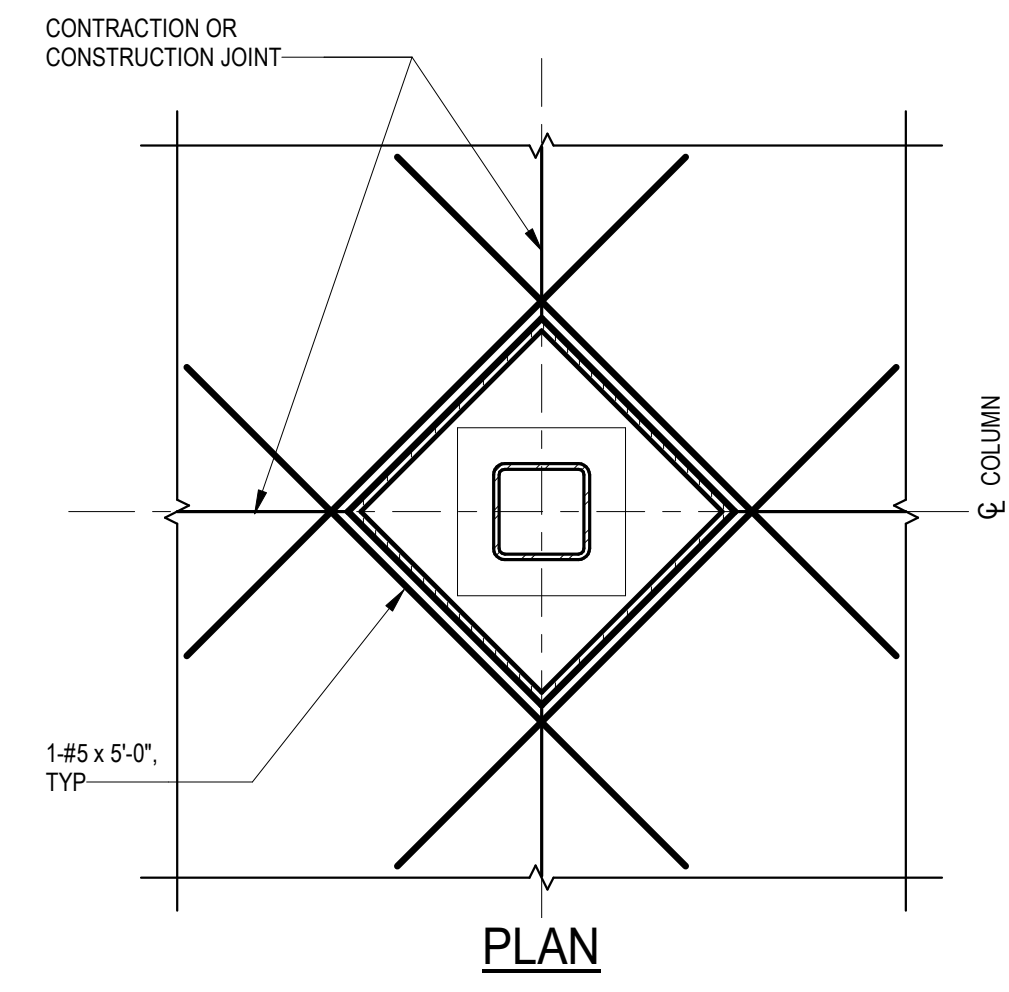
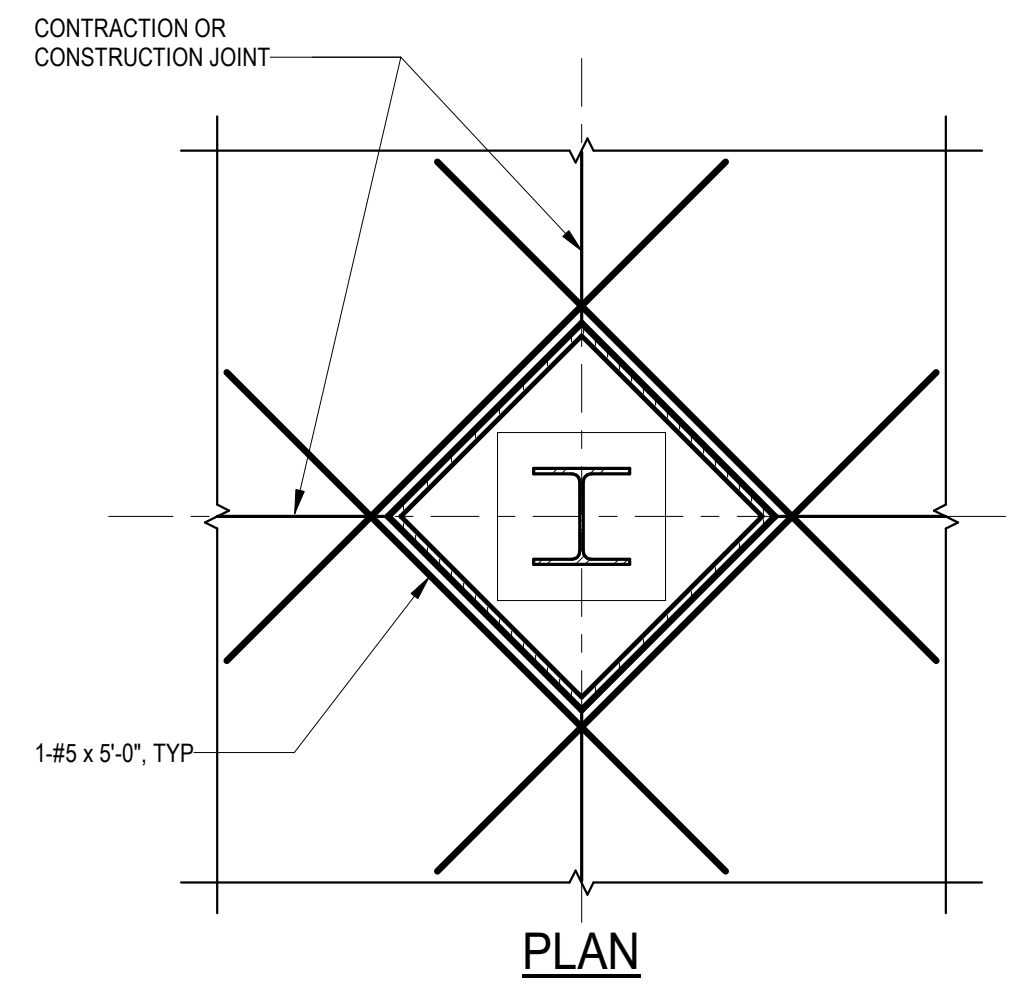
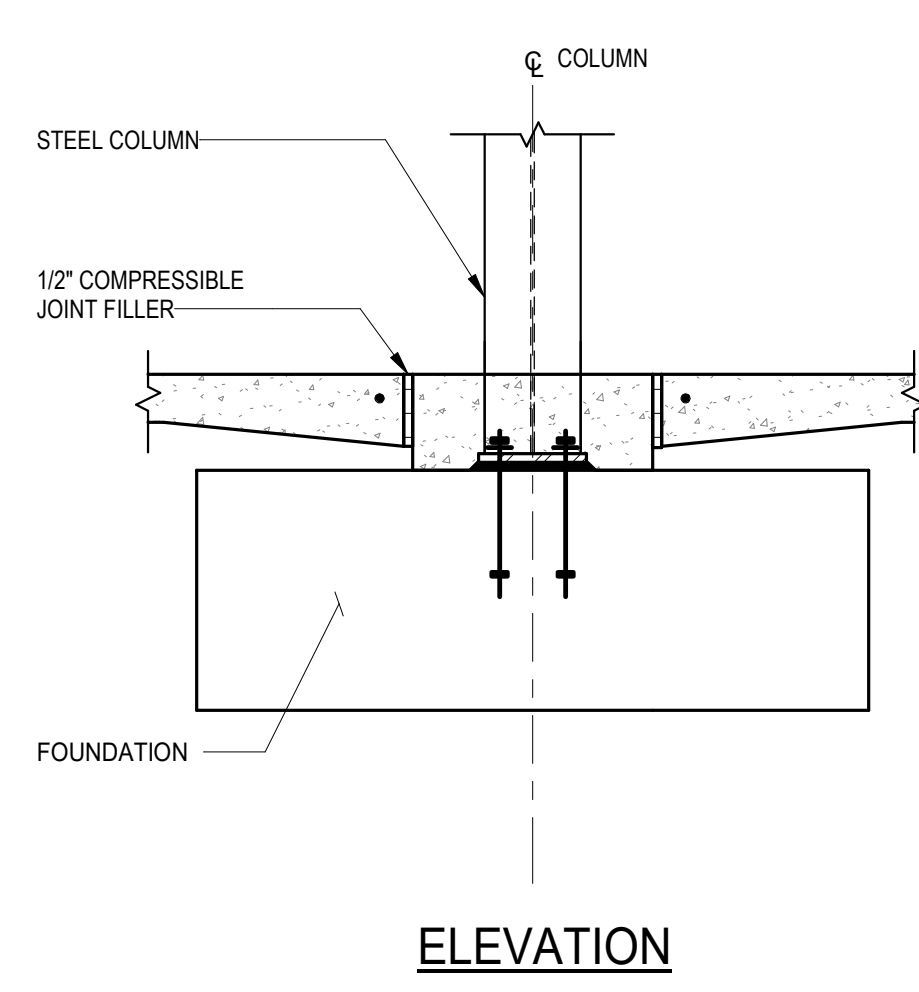
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

VERIFY SCALE			
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1			
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY			
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-0.02
	CHECKED BY JE	SCALE AS NOTED	

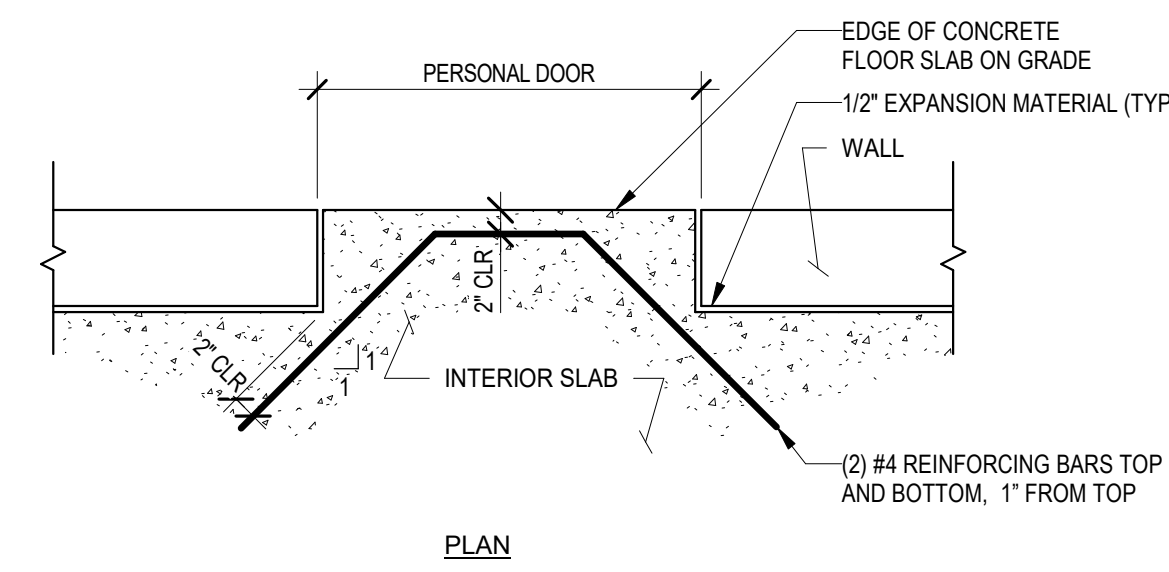
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

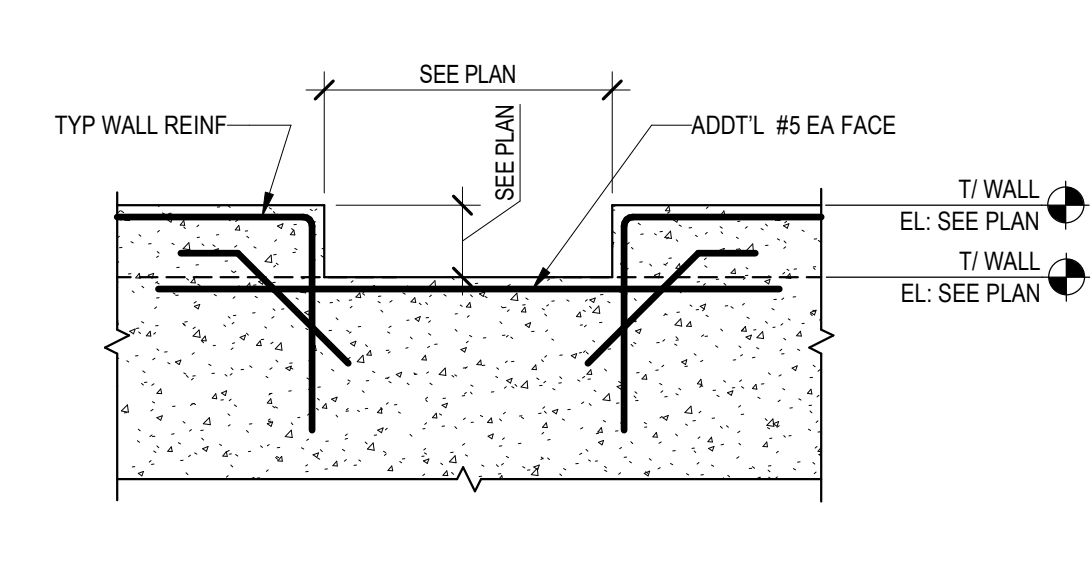
INSPECTION TABLES



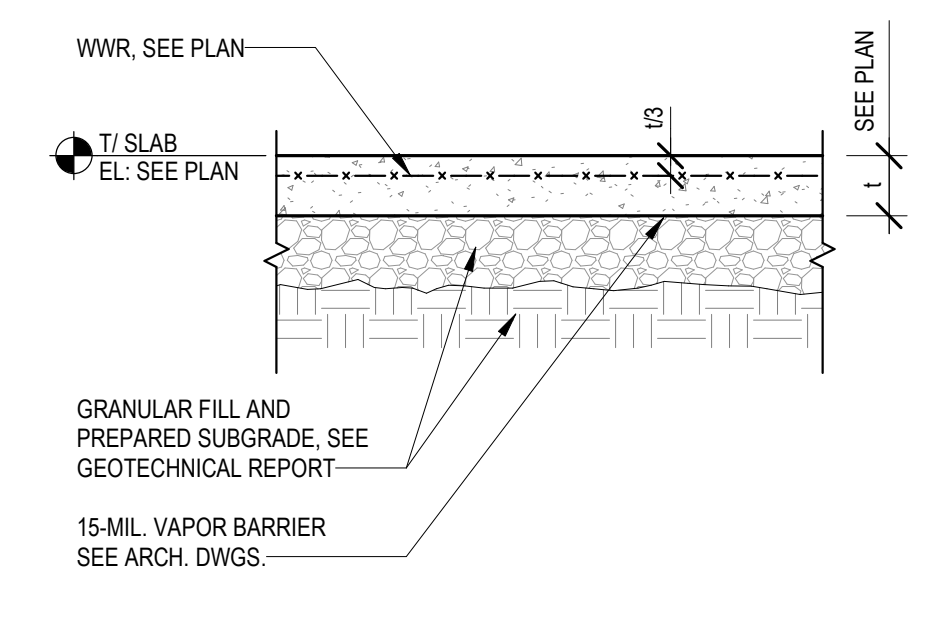
1 TYPICAL ISOLATION JOINT DETAIL (STEEL COLUMN)
Scale: NTS



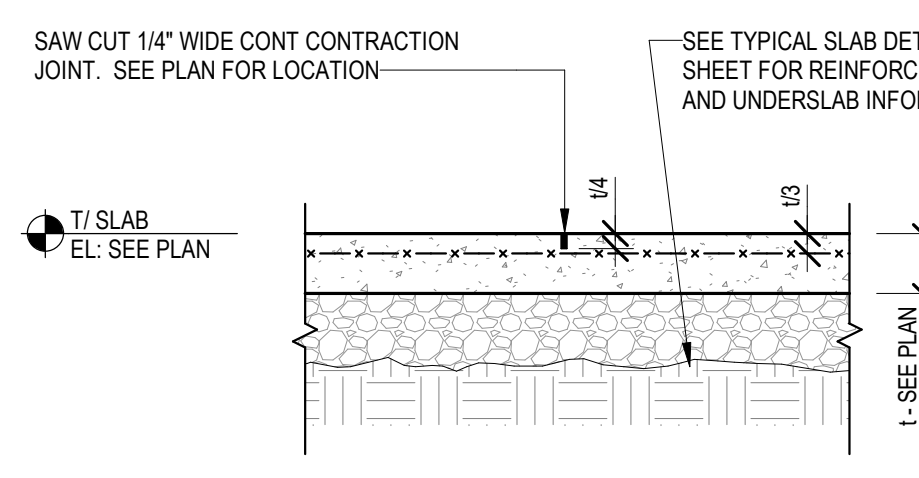
2 TYPICAL REINFORCEMENT AT ENTRANCES
Scale: NTS



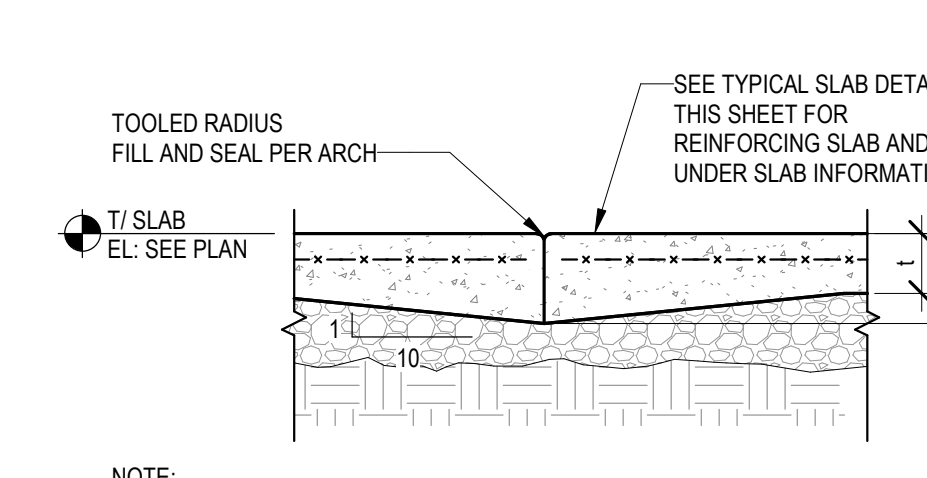
3 TYPICAL WALL DEPRESSION DETAIL
Scale: NTS



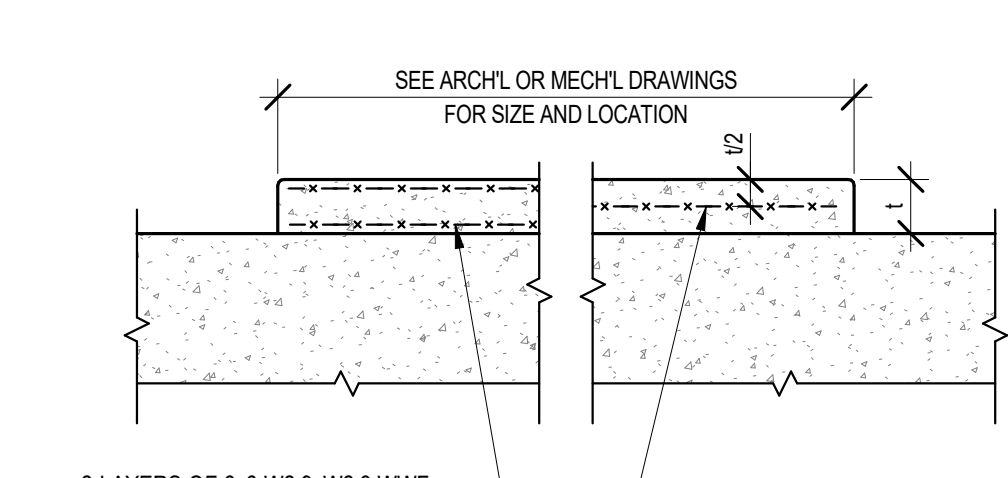
4 TYPICAL SLAB-ON-GRADE DETAIL
Scale: NTS



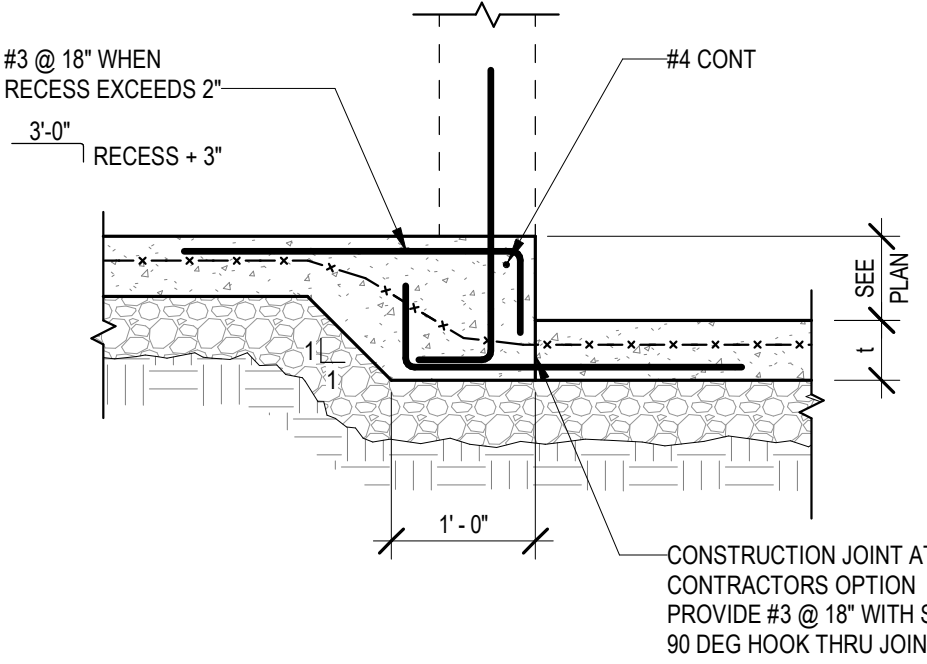
NOTE:
FILL JOINT WITH FLEXIBLE SEALANT AT SLABS-ON-GRADE EXPOSED TO FOOT TRAFFIC OR PNEUMATIC TIRE VEHICULAR TRAFFIC. PROVIDE SEMI-RIGID JOINT FILLERS AT SLABS-ON-GRADE EXPOSED TO HARD WHEELS.



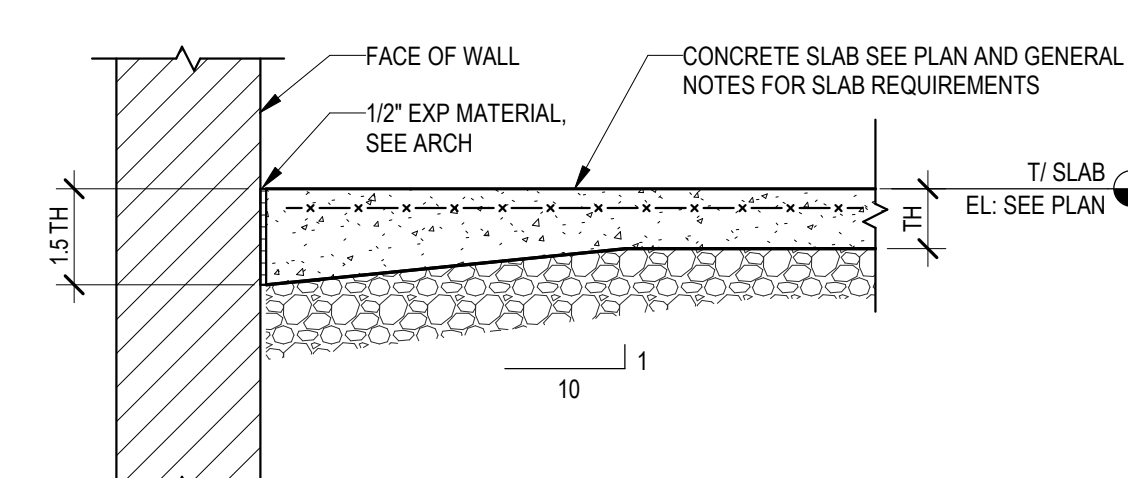
NOTE:
LOCATE CONSTRUCTION JOINTS AT SPECIFIED CONTRACTION JOINT LOCATIONS.



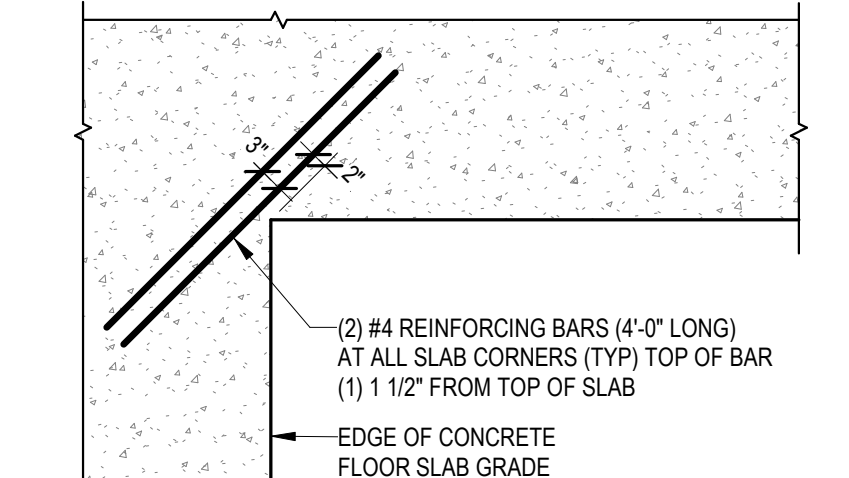
7 HOUSEKEEPING PAD DETAIL
Scale: NTS



8 TYPICAL SLAB-ON-GRADE RECESS DETAIL
Scale: NTS



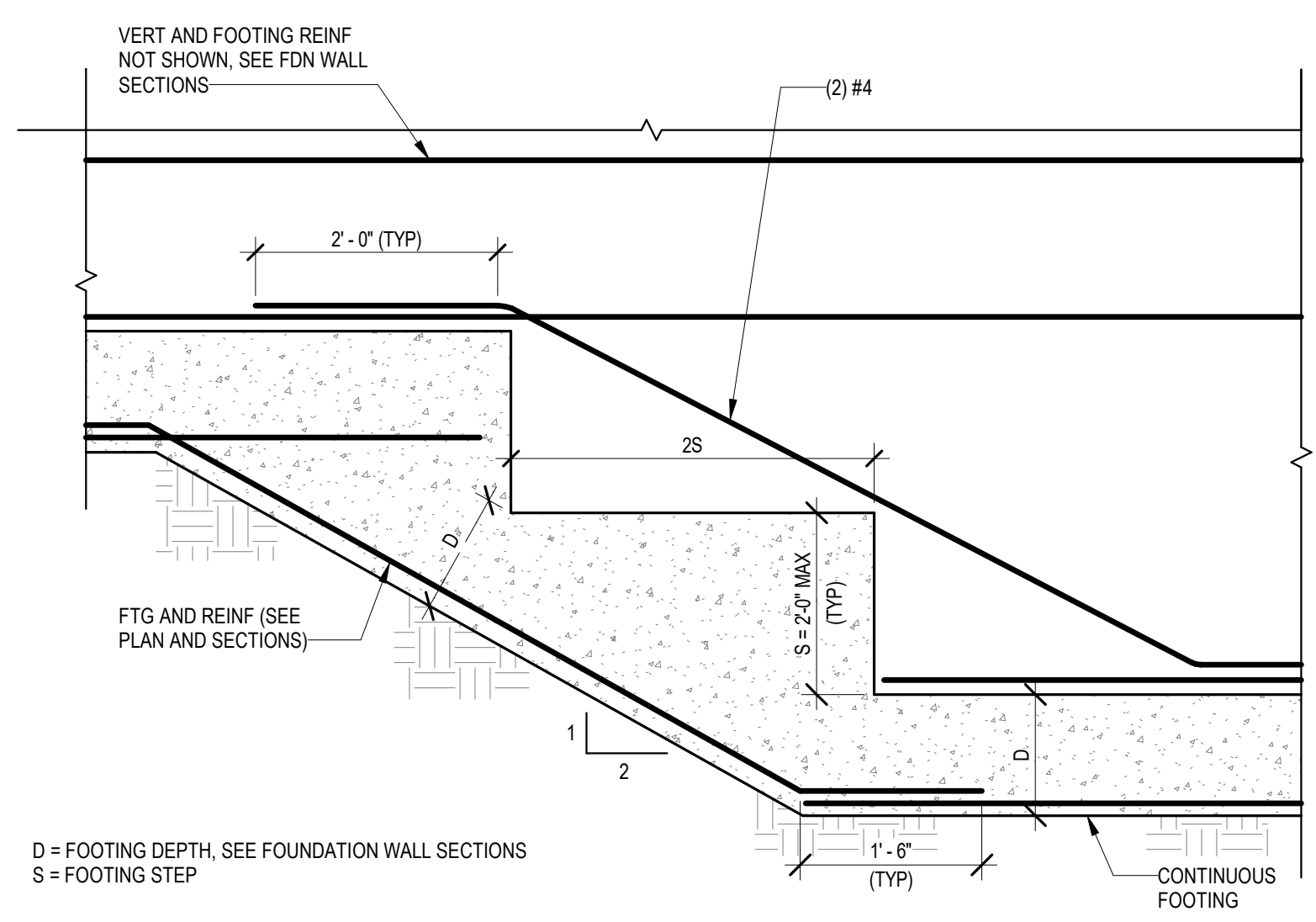
9 TYPICAL SLAB-ON-GRADE SLAB EDGE
Scale: NTS



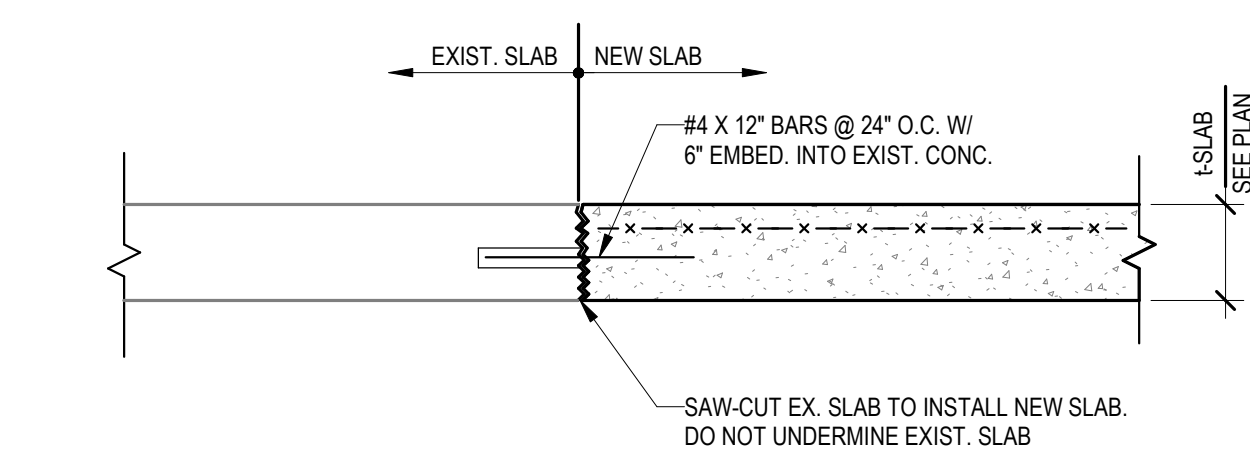
10 TYP. SOG RE-ENTRANT CORNER
Scale: NTS

5 TYPICAL SLAB-ON-GRADE CONTRACTION JOINT DETAIL
Scale: NTS

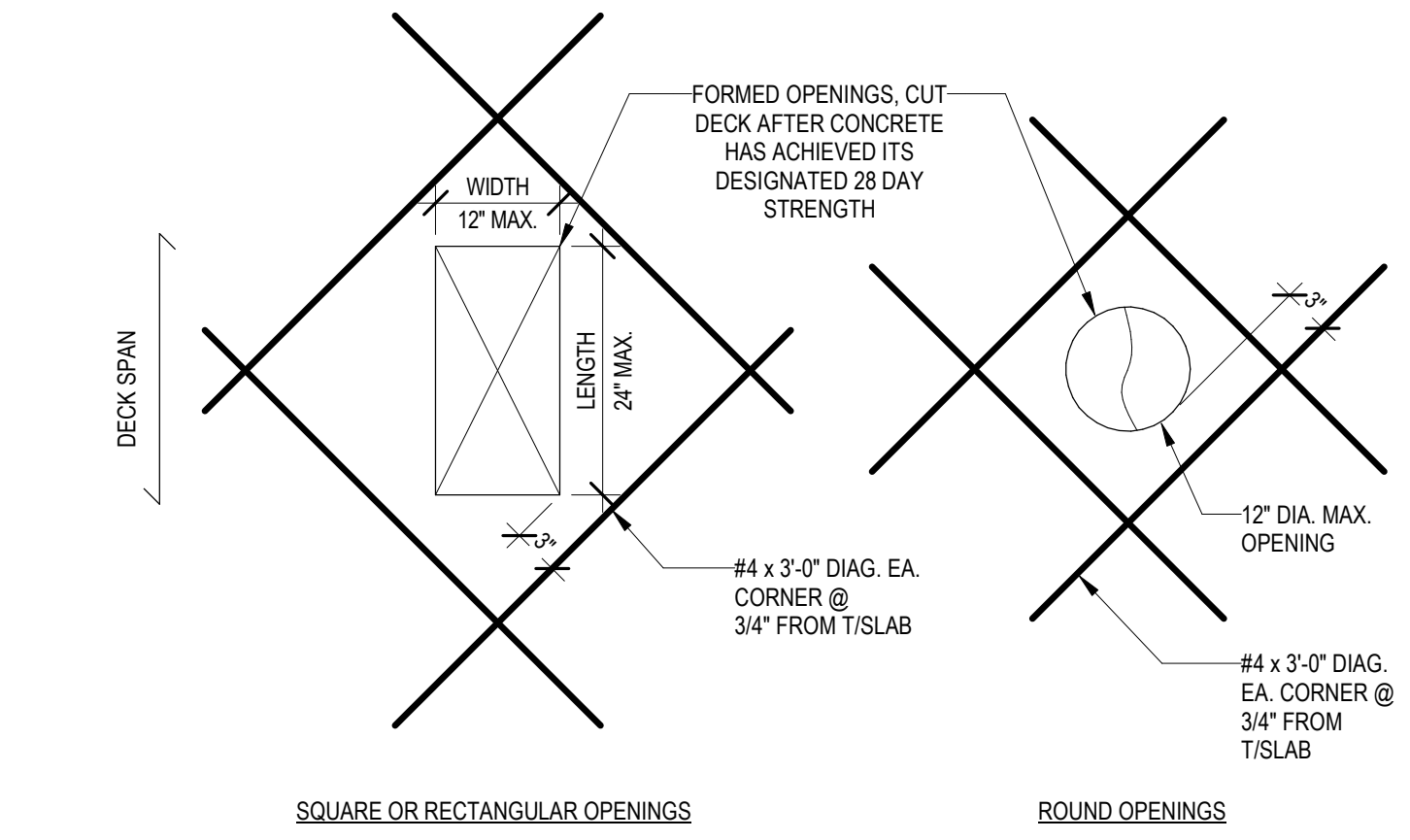
6 TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL
Scale: NTS



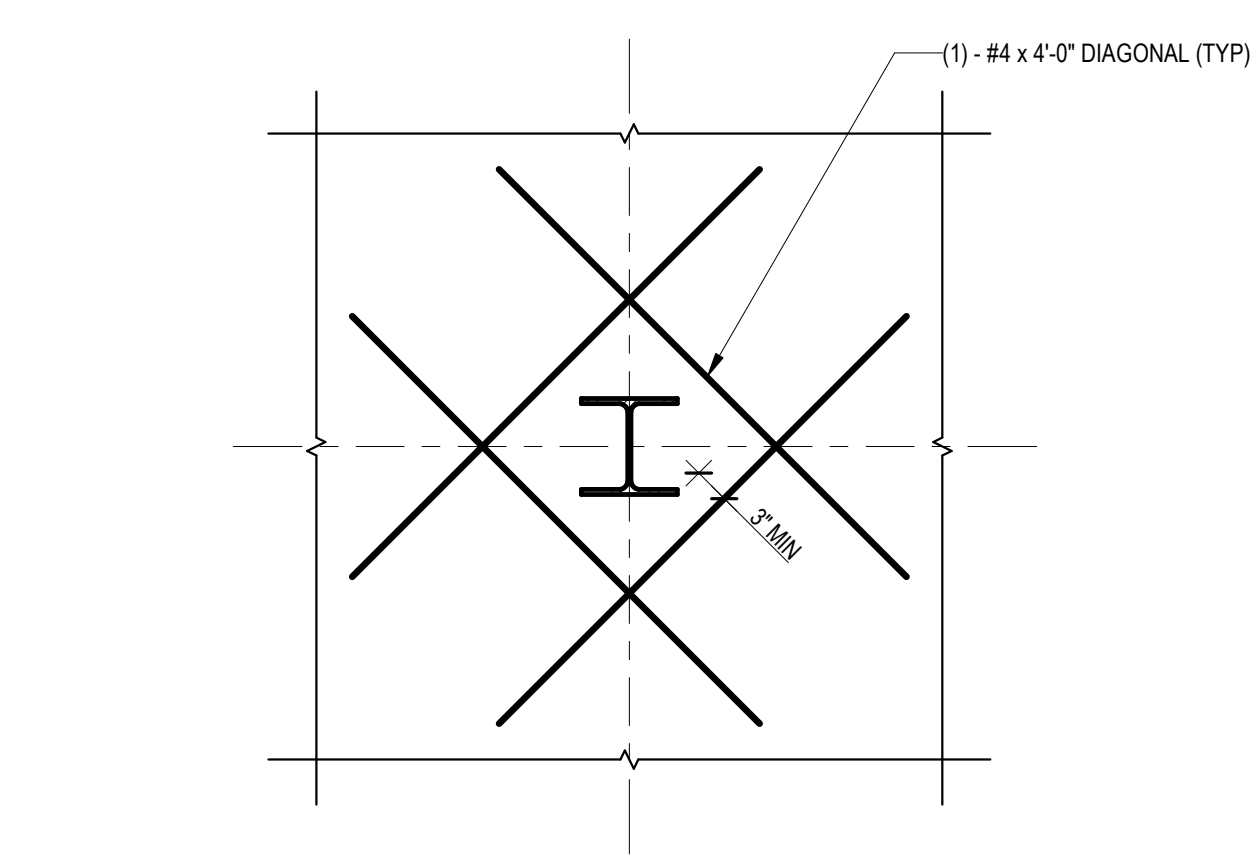
11 TYPICAL STEPPED FOOTING DETAIL
Scale: NTS



12 TYP. SLAB ON GRADE INFILL
Scale: NTS



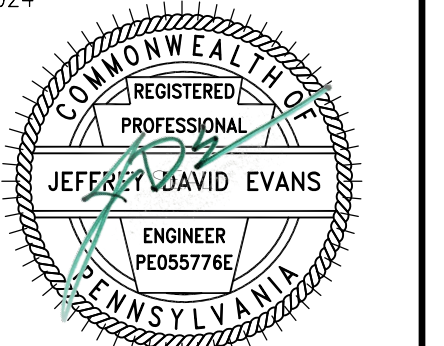
13 TYPICAL SLAB OPENING DETAILS
Scale: NTS



14 TYPICAL SLAB DETAIL AT INTERIOR COLUMNS
Scale: NTS

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



8-26-2024
SIGNATURE DATE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

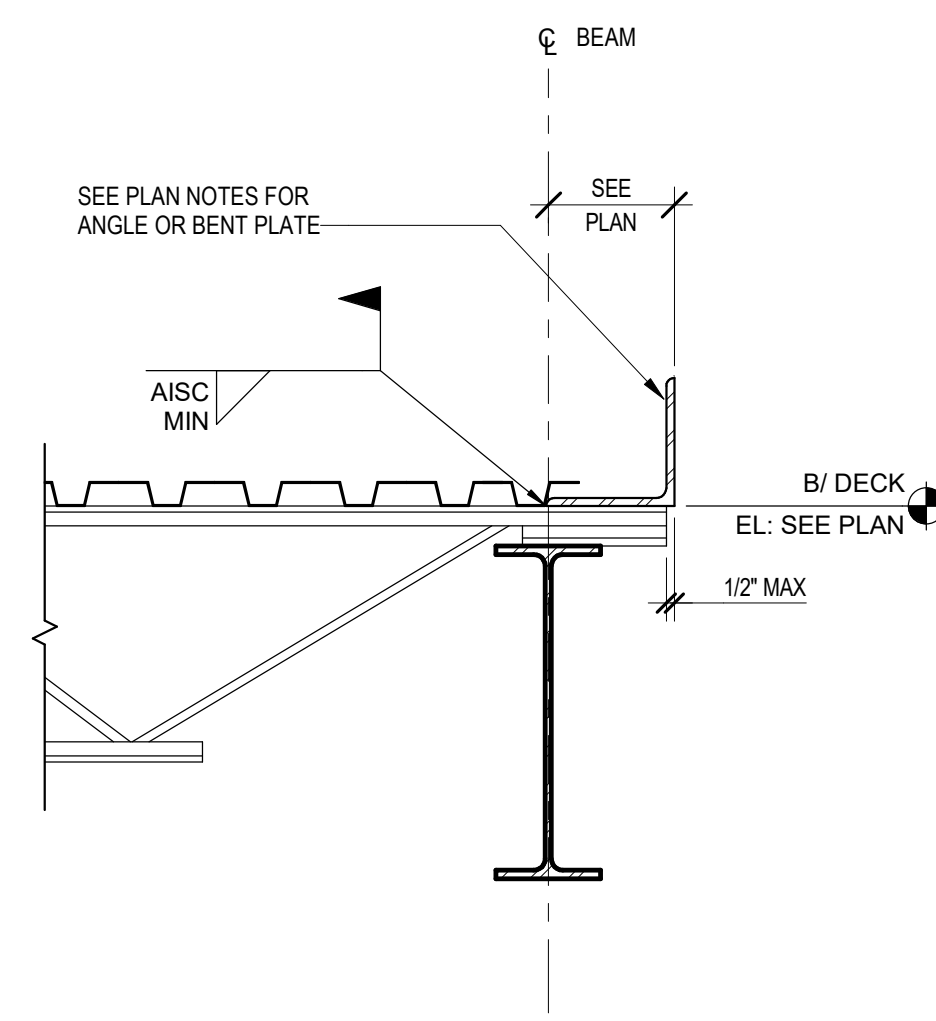
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

TYPICAL FOUNDATION DETAILS

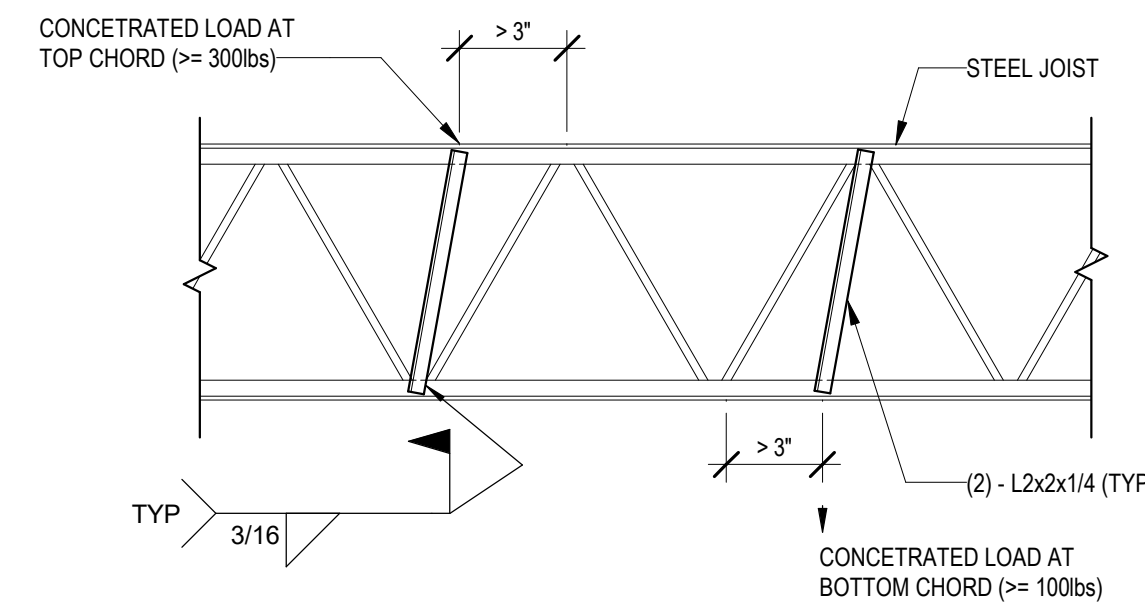
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

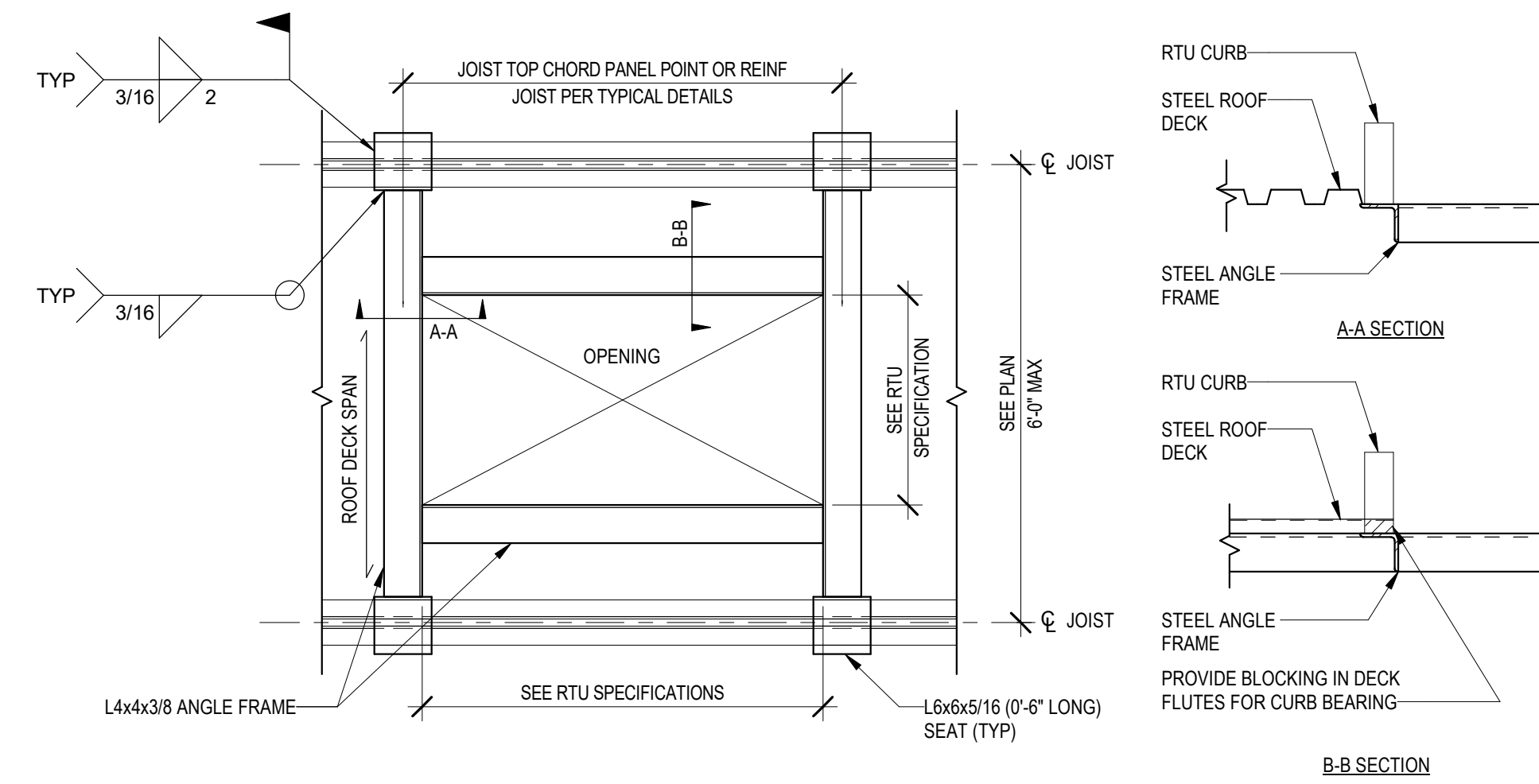
DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-0.10
CHECKED BY JE	SCALE AS NOTED	



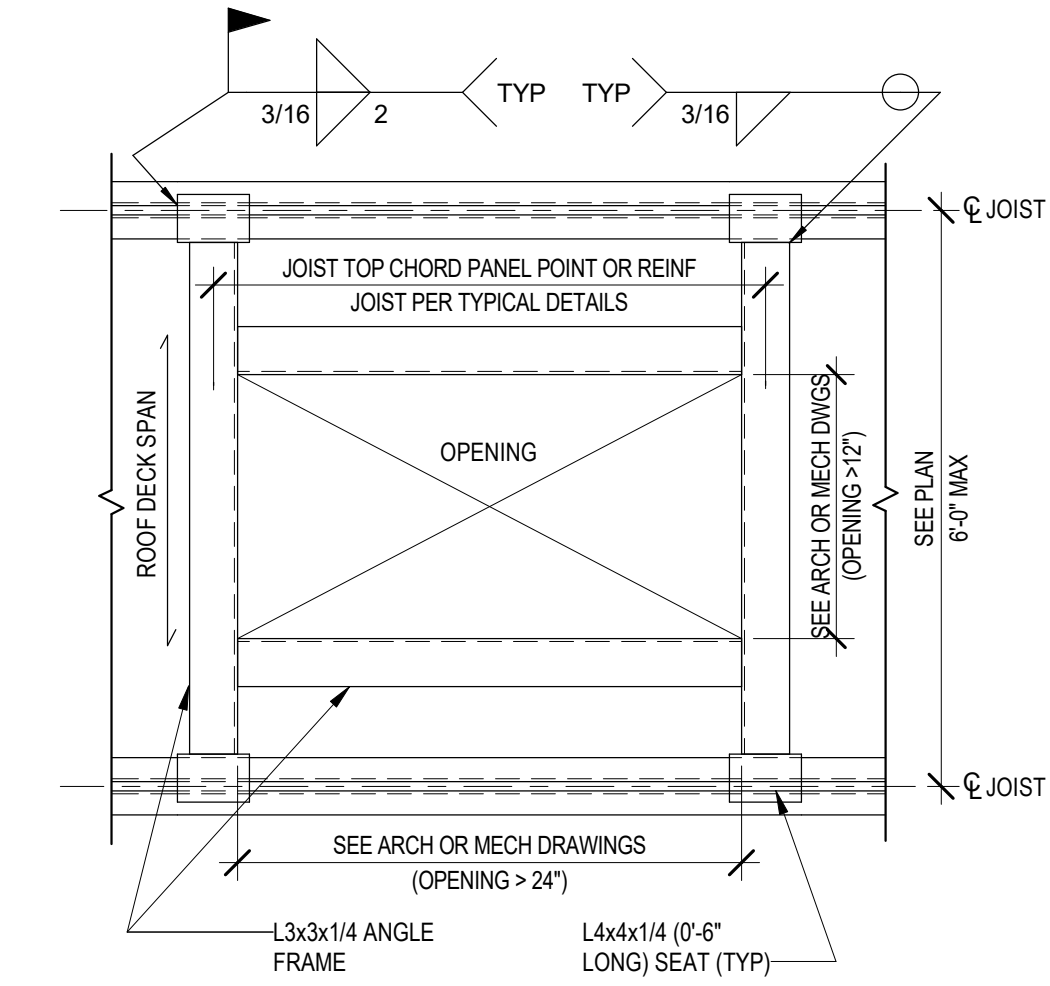
1 TYPICAL ROOF CLOSURE ANGLE DETAIL
S-0.20 Scale: NTS



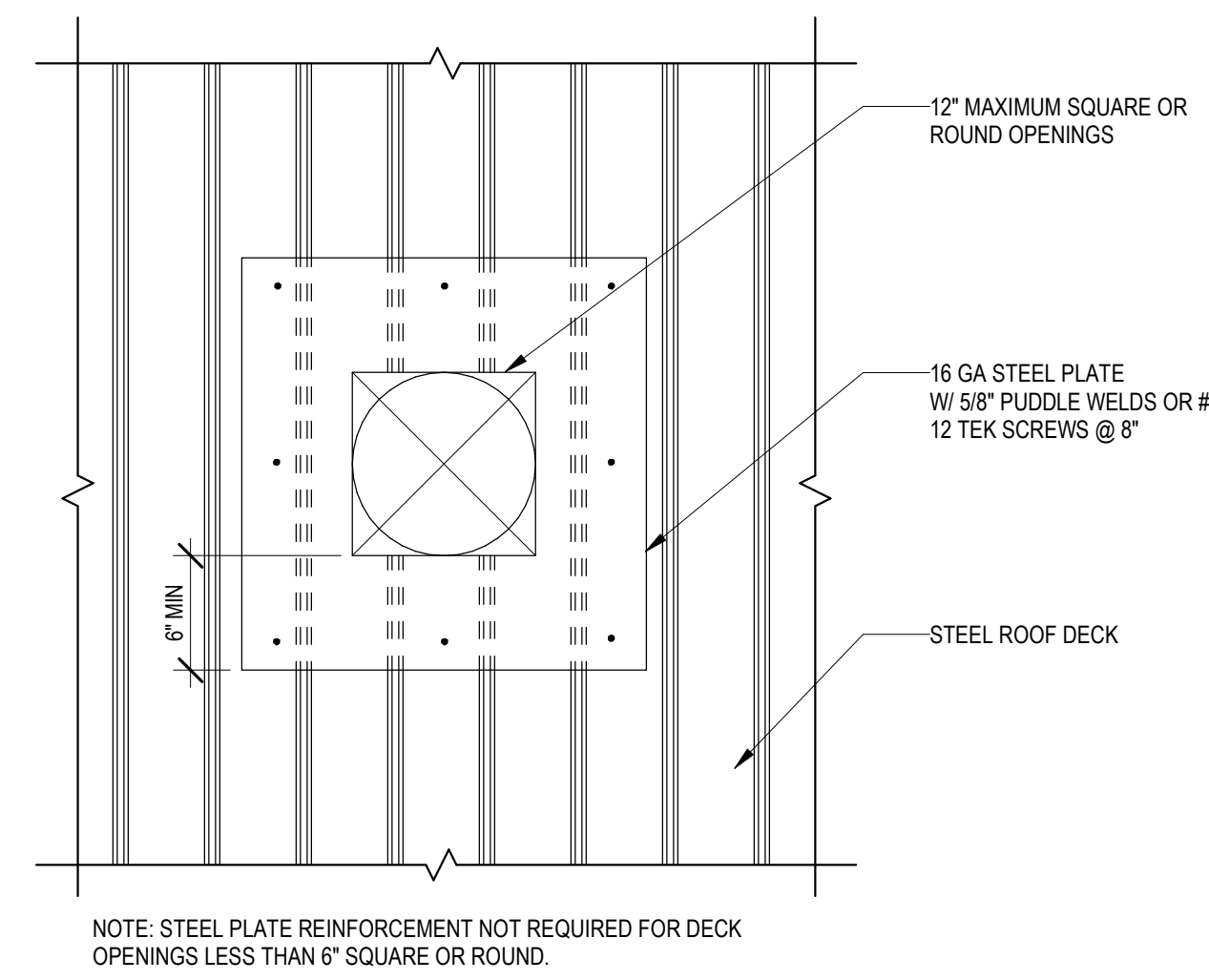
2 TYPICAL JOIST REINFORCEMENT DETAIL
S-0.20 Scale: NTS



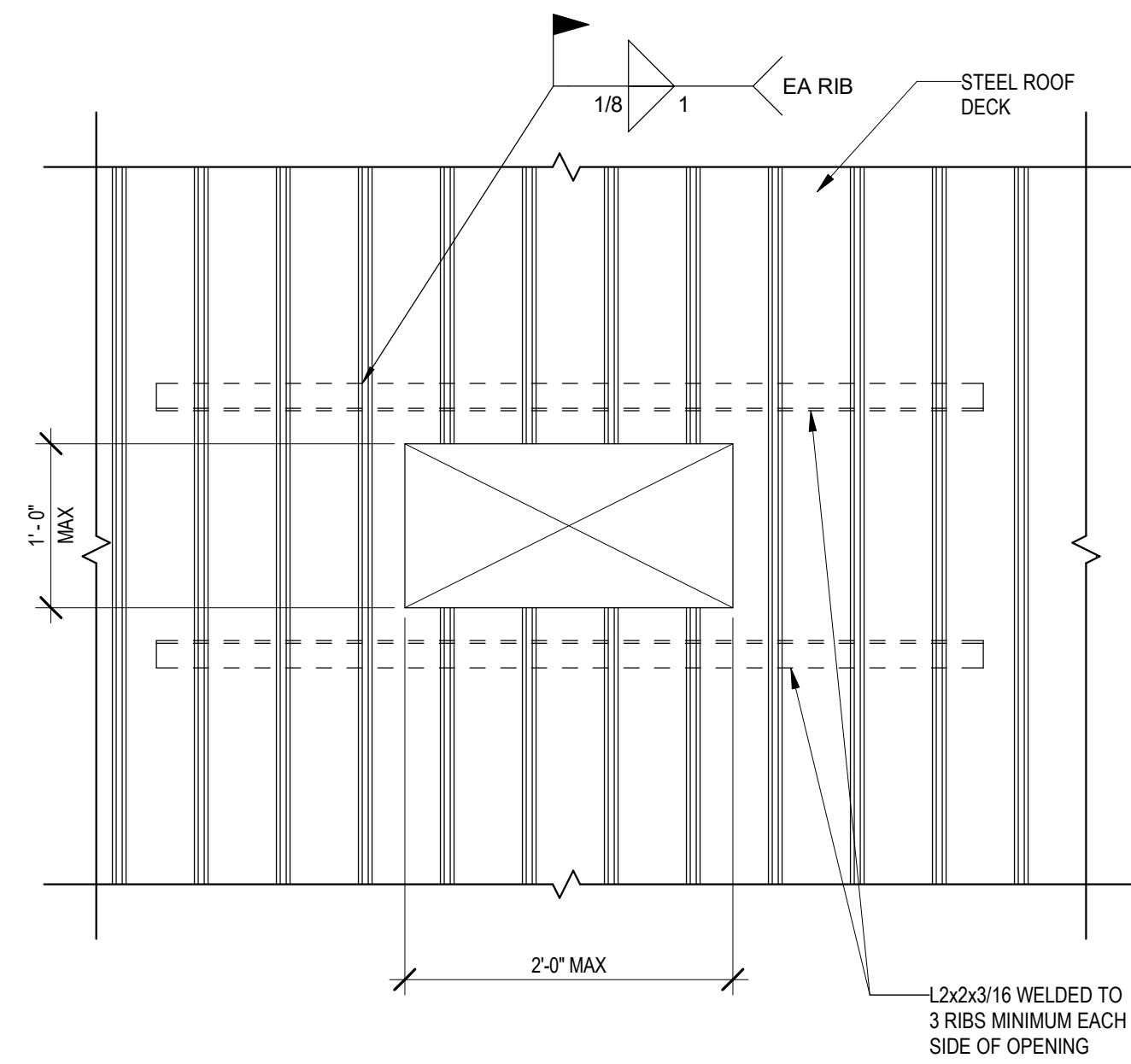
8 TYPICAL ROOF TOP UNIT SUPPORT DETAIL
S-0.20 Scale: NTS



9 TYPICAL ROOF DECK OPENING DETAIL
S-0.20 Scale: NTS



10 TYPICAL ROOF DECK OPENING DETAIL (<12\")
S-0.20 Scale: NTS



11 TYPICAL ROOF DECK OPENING DETAIL (12\"/>

NOMINAL ELEMENT WIDTH	SPAN	STEEL LINTEL
4'	6'-0\"/>	
	OVER 6'-0\"/>	
	OVER 8'-0\"/>	
6'	6'-0\"/>	
	OVER 6'-0\"/>	
	OVER 8'-0\"/>	
8'	6'-0\"/>	
	OVER 6'-0\"/>	
	OVER 8'-0\"/>	
10'	6'-0\"/>	
	OVER 6'-0\"/>	
	OVER 8'-0\"/>	
12'	6'-0\"/>	
	OVER 6'-0\"/>	
	OVER 8'-0\"/>	

NOTES:
 SCHEDULED LINTELS ARE TO BE USED IN ALL MASONRY WALLS INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS (I.N.D.) WHERE OPENINGS ARE REQUIRED. COORDINATE WITH MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR ADDITIONAL REQUIRED OPENINGS IN WALLS. OPENINGS LESS THAN 16\"/>

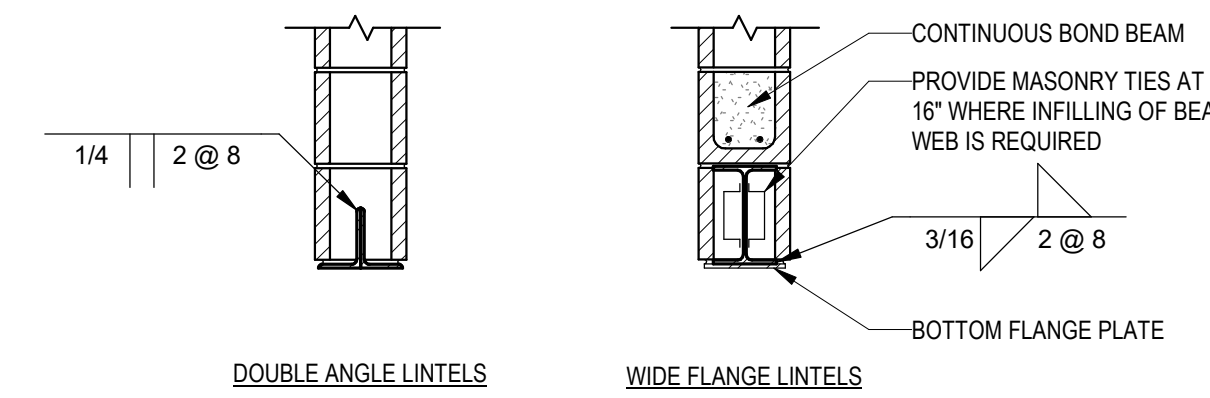
SCHEDULED LINTELS ARE INTENDED ONLY FOR EACH INDEPENDENT WALL ELEMENTS. FOR EXAMPLE, THE PROPER SELECTION FOR A 4\"/>

UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL OR STRUCTURAL PLANS OR DETAILS, CONTRACTOR MAY USE STEEL LINTELS OR CMU LINTELS IN NON-LOAD BEARING WALLS AT THEIR OPTION.

STEEL LINTELS SHALL BEAR MINIMUM OF 4\"/>

PROVIDE LINTEL ASSEMBLIES IN ACCORDANCE WITH DETAILS BELOW.

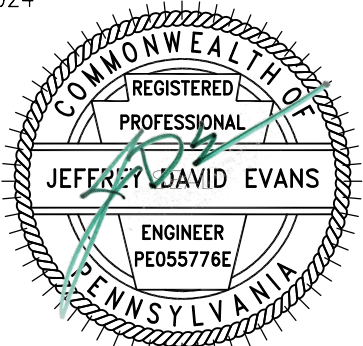
LINTELS AT EXTERIOR MASONRY WALLS SHALL BE GALVANIZED. LINTELS AT INTERIOR WALLS MAY BE PAINTED.



3 LOOSE LINTEL SCHEDULE
S-0.20 Scale: 3/4\"/>

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS
 Construction Document - August 26, 2024



8-26-2024
 SIGNATURE DATE

ZIMMERMAN STUDIO LLC
 ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
 DGS C-0961-0044 PHASE 01

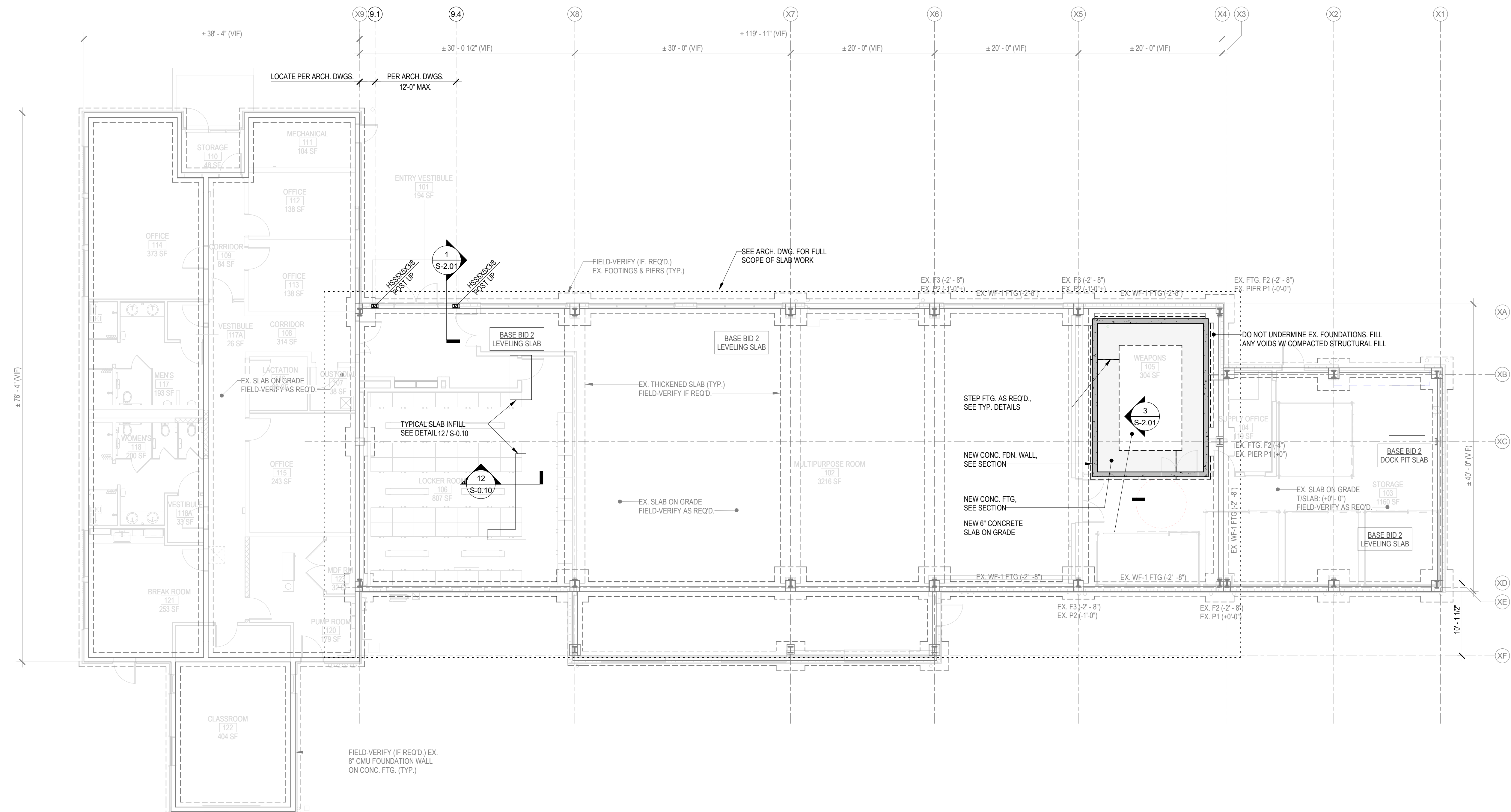
BUILDING 237 RENOVATION
 BIDDLE AIR GUARD STATION
 HORSHAM, PA 19044

TYPICAL STEEL DETAILS

VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-0.20
CHECKED BY JE	SCALE AS NOTED	



1
S-1.01
FOUNDATION PLAN
Scale: 1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- THE EXISTING FOUNDATION LAYOUT SHOWN ON THIS PLAN IS BASED ON VERY LIMITED SITE OBSERVATIONS AND EXISTING DRAWINGS ENTITLED "VEHICLE MAINTENANCE FACILITY - AIR RESERVE FACILITY WILLOW GROVE, PA" PREPARED BY T.S. DESIGN GROUP, PC, DATED 1-27-94 WITH MULTIPLE REVISIONS ENDING IN 9-22-88. ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.
 - TOP OF EXISTING SLAB ELEVATION (0'-0") TO BE VERIFIED IN FIELD.
 - TOP OF NEW SLAB ELEVATION INDICATED ON DWGS. IS RELATIVE TO EXISTING TOP OF SLAB ELEVATION.
 - TYPICAL FLOOR SLAB SHALL BE 6" CONCRETE SLAB-ON-GRADE W/ 6# W2 5mW2.9 W.F. (U.N.O.)
 - ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO BEGINNING OF ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH THE PROPOSED MODIFICATION FOR REVIEW BY ARCHITECT.
 - PROVIDE THICKENED SLAB BELOW ALL NON-LOAD BEARING CMU WALLS AS INDICATED ON THE ARCH. DWGS. COORDINATE ALL WALL LOCATIONS AND EXTENT WITH ARCH. DWGS.
 - AT ALL LOCATIONS WHERE PIPING RUNS BENEATH FOUNDATION WALLS, DEEPEENED FOOTINGS AS REQUIRED TO ALLOW 6" MIN. CLEARANCE BETWEEN PIPE AND FOOTINGS. SEE DETAILS.
 - SEE ARCH. DWGS. FOR WATERPROOFING AND INSULATION REQUIREMENTS AND LOCATIONS.
 - PER THE GEOTECHNICAL REPORT (SEE GENERAL NOTES), FOUNDATIONS HAVE BEEN DESIGNED USING A MAXIMUM ALLOWABLE PRESSURE OF 3,000 PSF. CONTRACTOR SHALL ALLOW OWNER'S GEOTECHNICAL ENGINEER TO OBSERVE SUBGRADE CONDITIONS TO CONFIRM BEARING CAPACITY PRIOR TO PLACEMENT OF FORMS OR REINFORCING STEEL.
 - SEE DRAWINGS S-0.01 FOR GENERAL NOTES.
 - SEE DRAWINGS S-0.11 FOR TYPICAL FOUNDATION DETAILS.
- PLAN LEGEND:**

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024

8-26-2024
SIGNATURE DATE

ZIMMERMAN **STUDIO** **INC.**
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

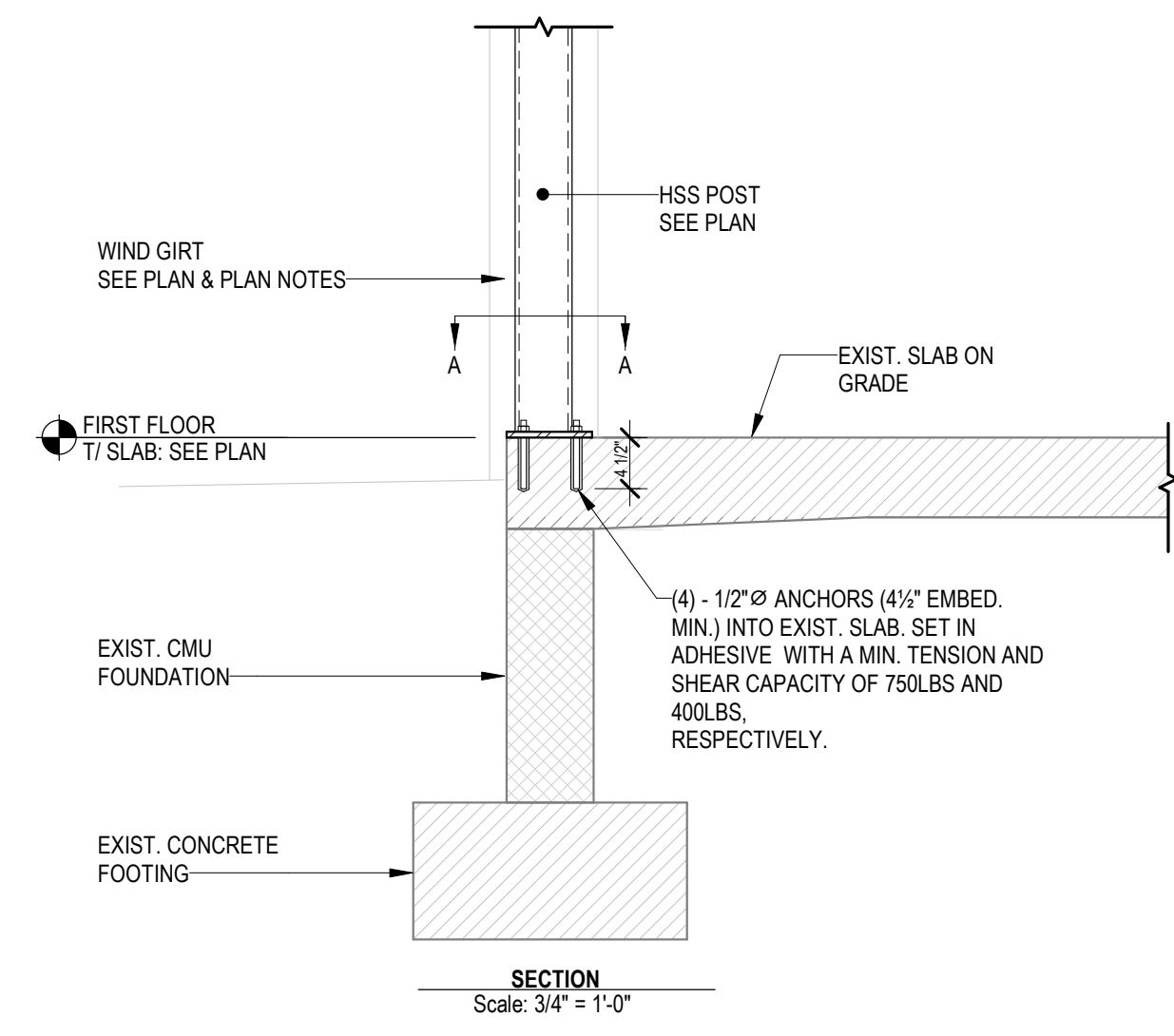
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1

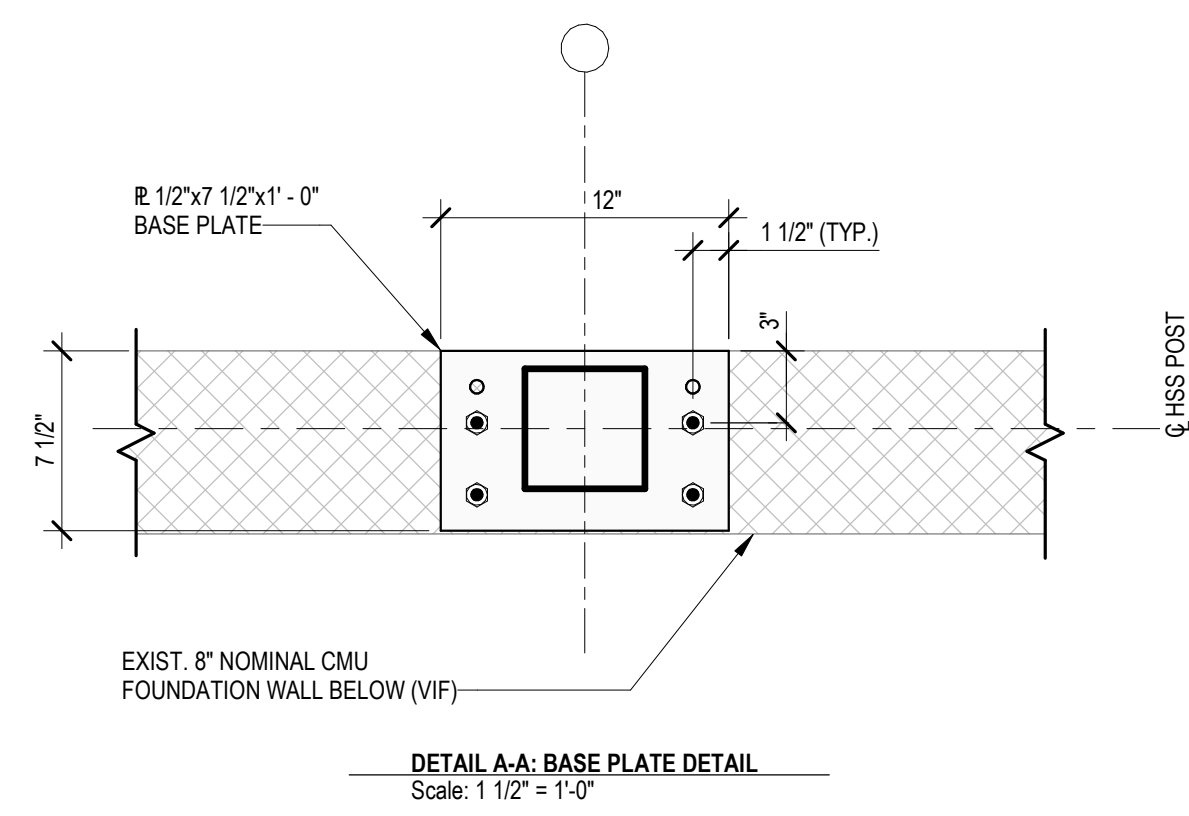
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

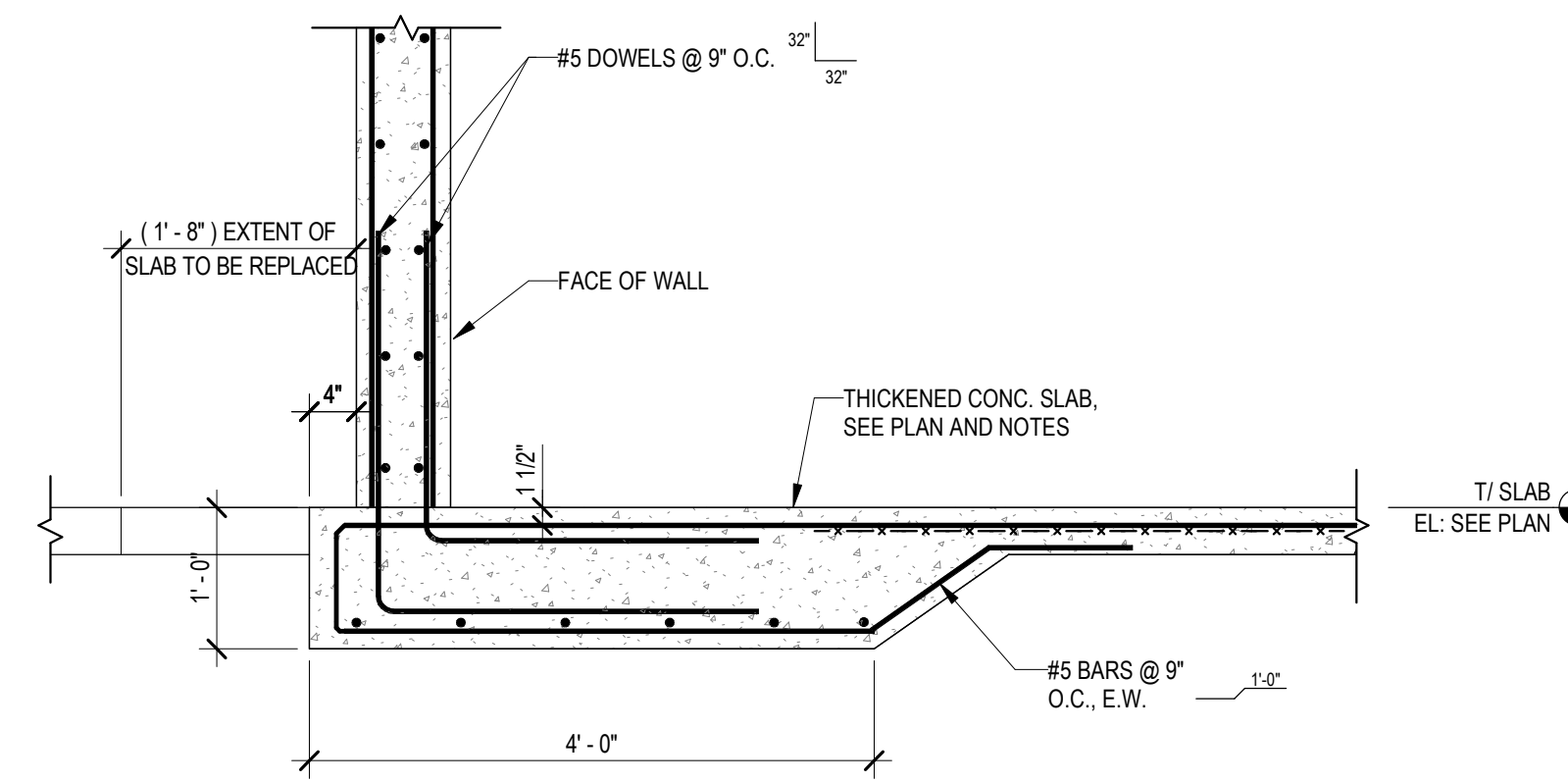
DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-1.01
CHECKED BY JE	SCALE AS NOTED	



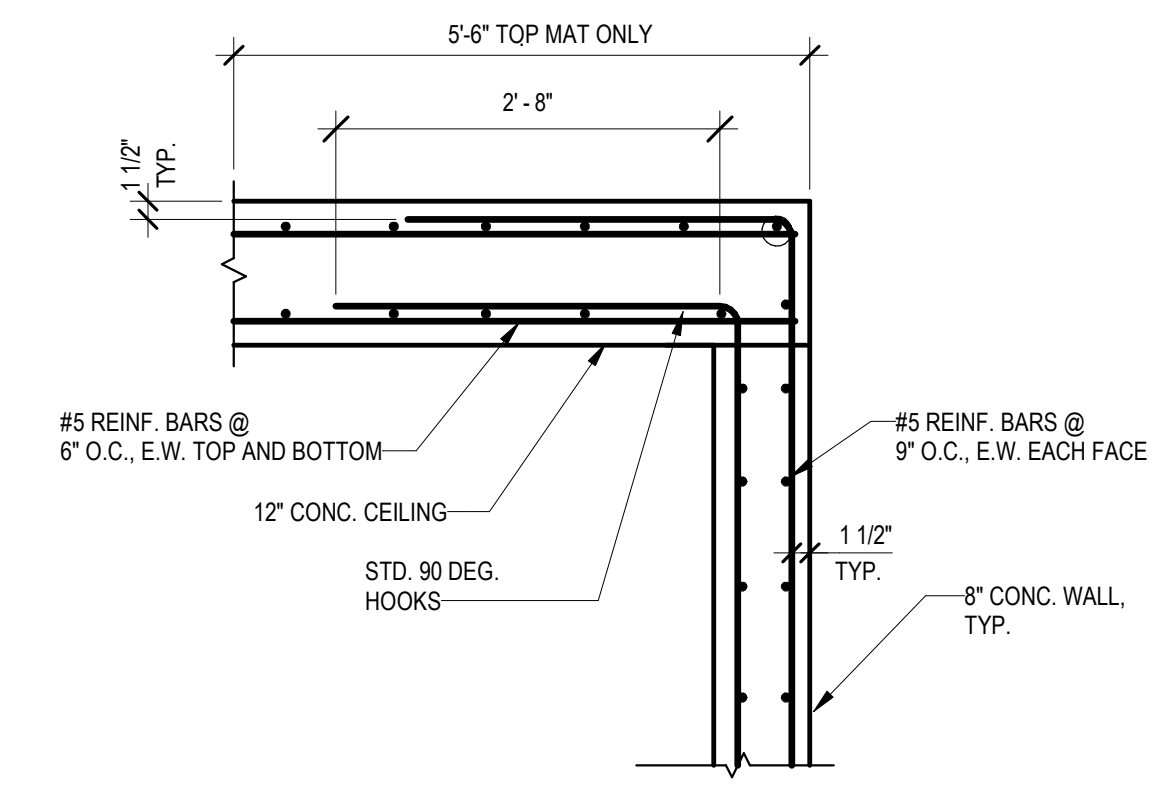
1 HSS POST BASE DETAILS
Scale: AS NOTED



DETAIL A-A: BASE PLATE DETAIL
Scale: 1 1/2" = 1'-0"



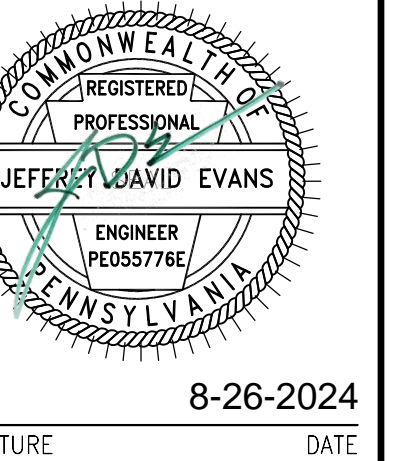
3 SECTION
Scale: 3/4" = 1'-0"



4 WALL/CEILING REINFORCING @ VAULT
Scale: 3/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

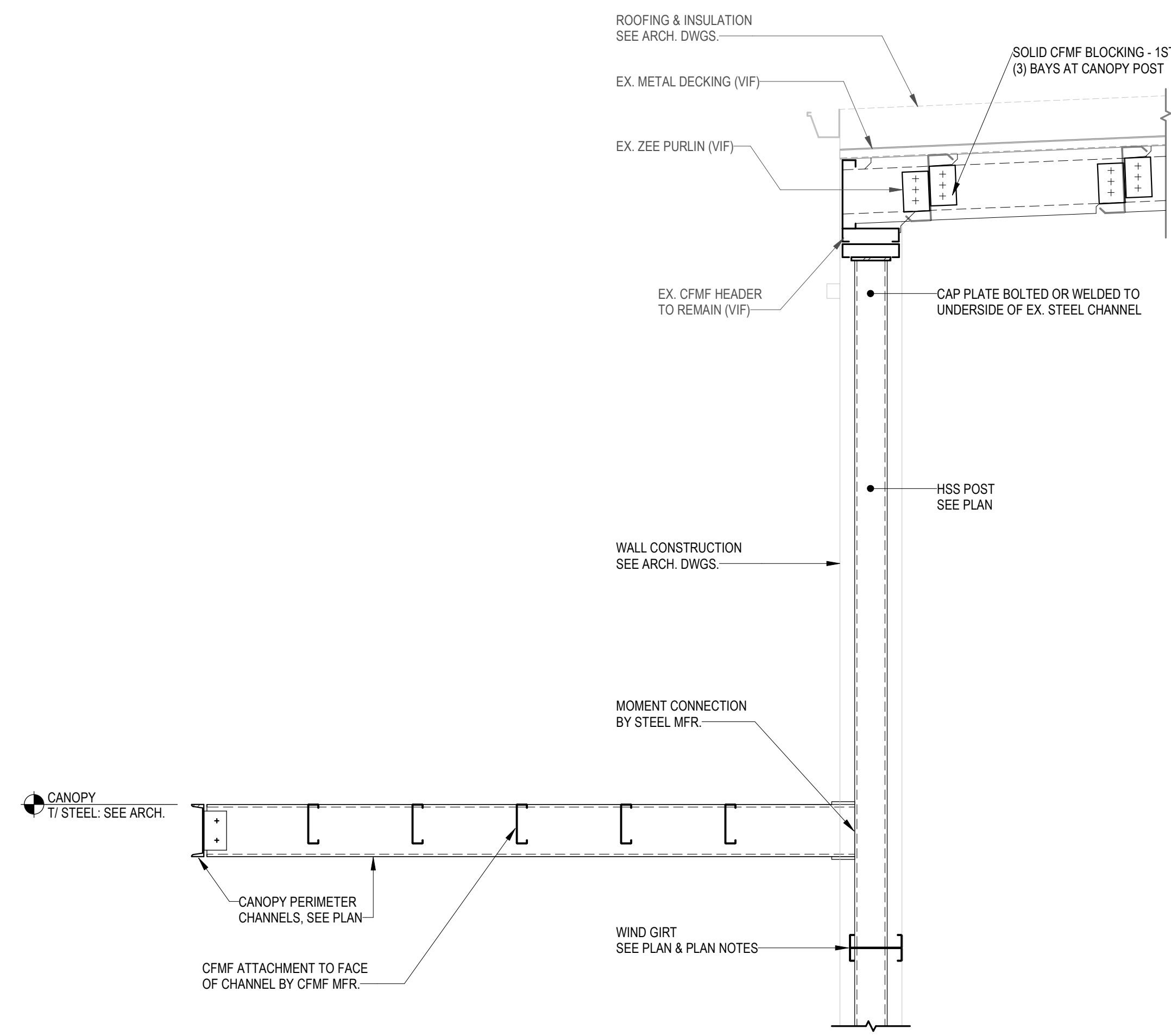
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

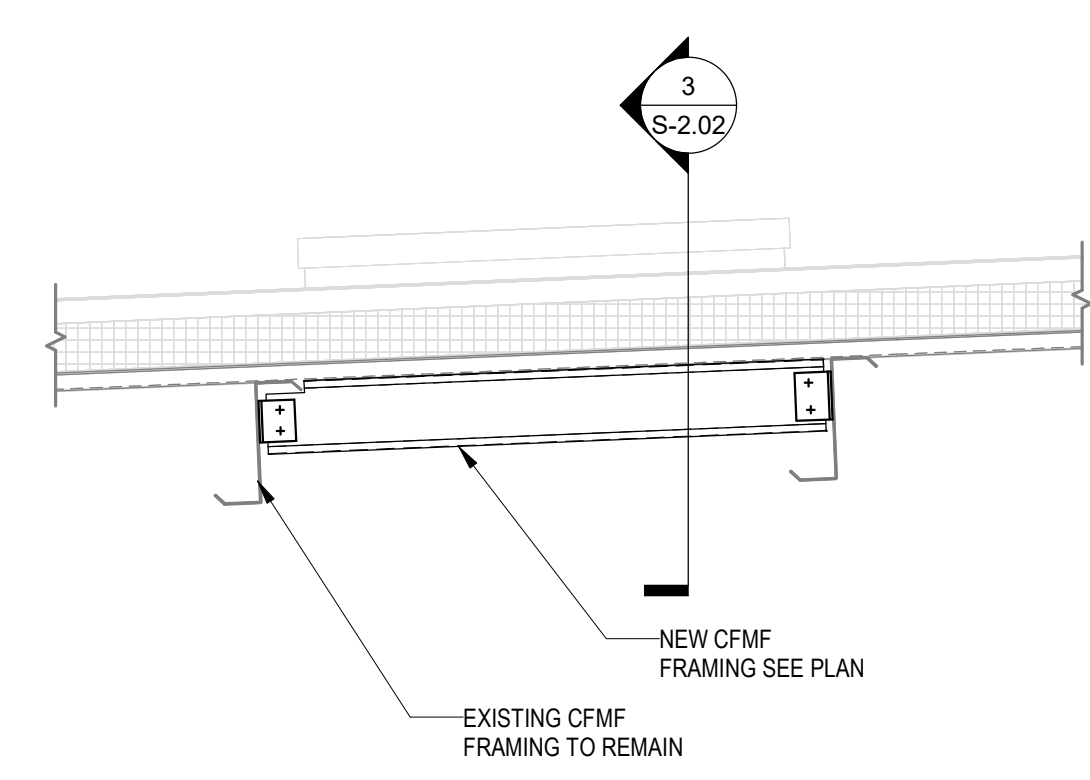
FOUNDATION SECTIONS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

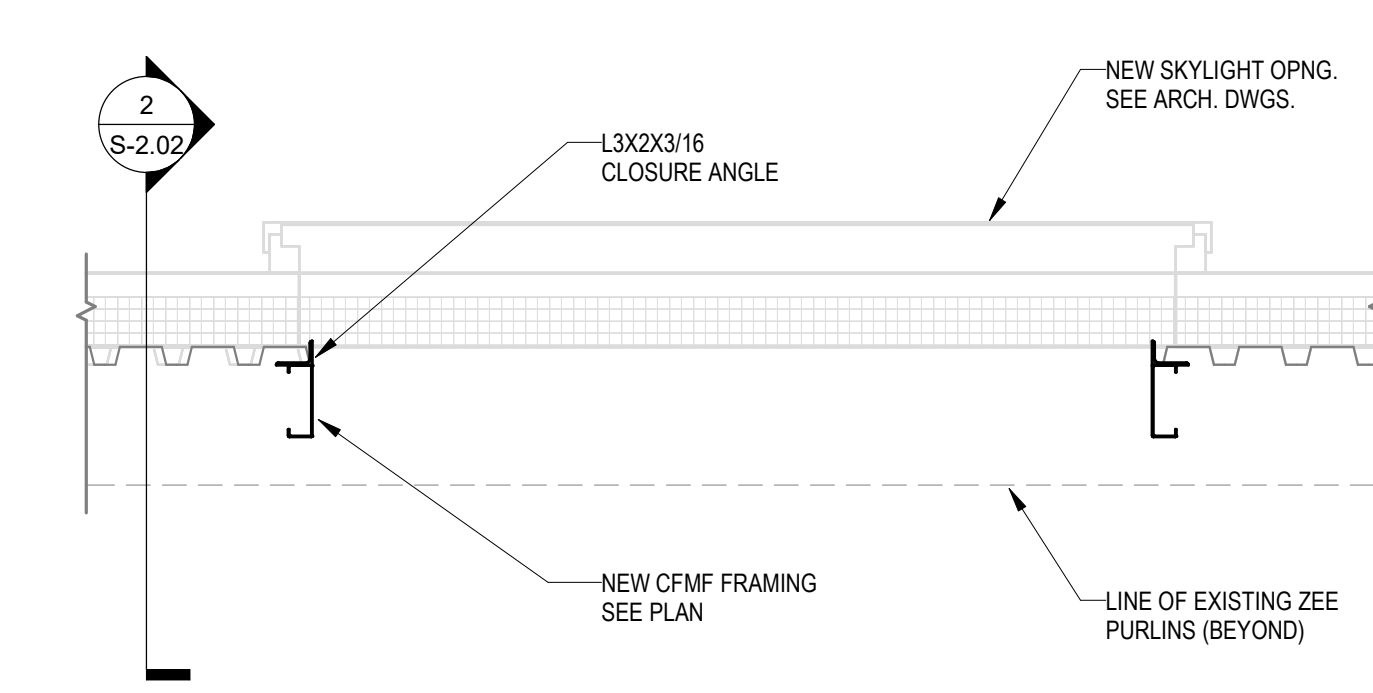
DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-2.01
CHECKED BY JE	SCALE AS NOTED	



1 SECTION
S-2.02 Scale: 3/4" = 1'-0"



2 SECTION
S-2.02 Scale: 3/4" = 1'-0"

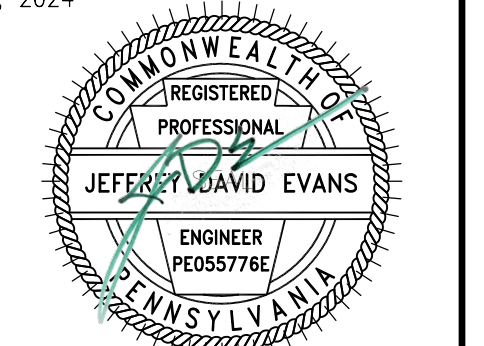


3 SECTION
S-2.02 Scale: 3/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



8-26-2024
SIGNATURE DATE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

FRAMING SECTIONS

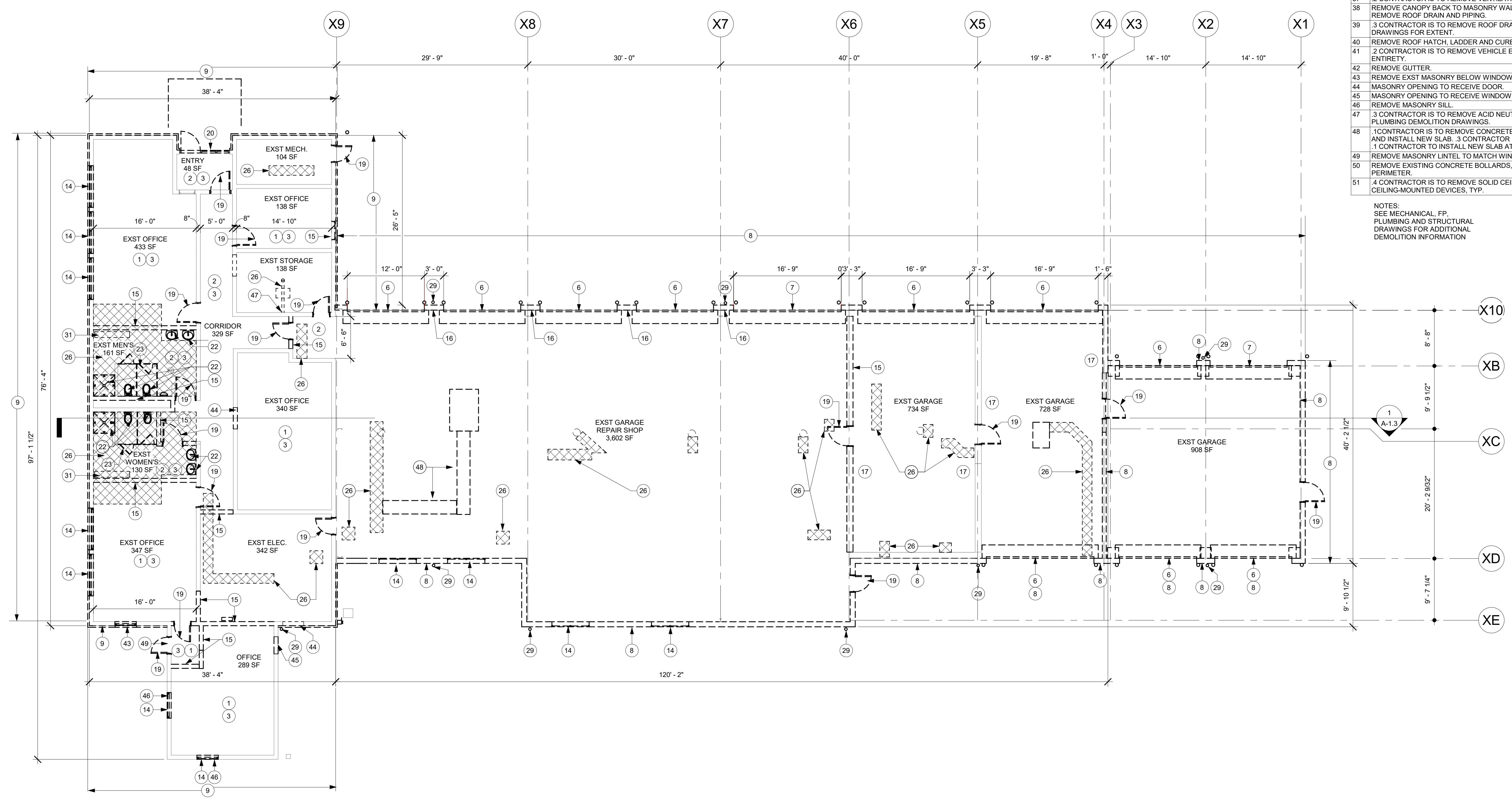
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TR	DATE 04/15/2024	DRAWING No. S-2.02
CHECKED BY JE	SCALE AS NOTED	

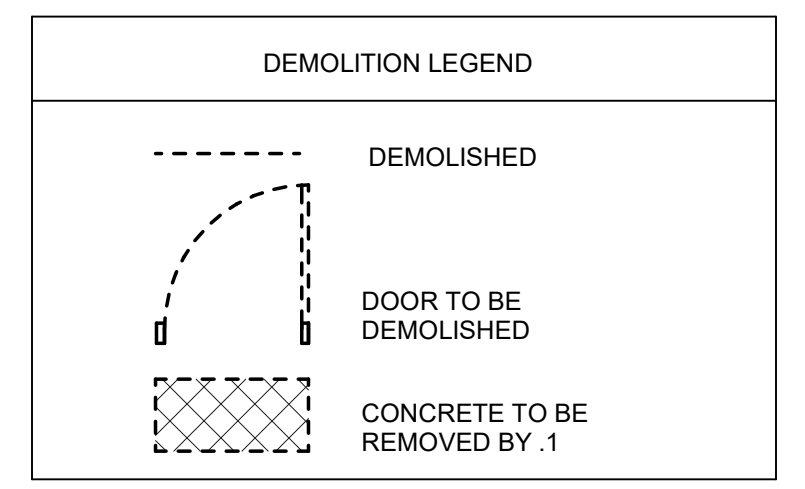
- GENERAL DEMOLITION NOTES
- VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
 - MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
 - EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
 - PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
 - RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
 - WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
 - WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
 - WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
 - SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
 - ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

- KEYED DEMOLITION NOTES
- REMOVE CARPET.
 - REMOVE VCT.
 - 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
 - 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
 - CONTRACTOR IS TO REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
 - REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
 - REMOVE INTERIOR AND EXTERIOR MTL, SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
 - REMOVE MTL SIDING.
 - REMOVE SINGLE MEMBRANE ROOF.
 - REMOVE MTL, ROOF PANEL.
 - 2 CONTRACTOR IS TO REMOVE AHU.
 - REMOVE MTL, GRAVEL STOP.
 - REMOVE WINDOW.
 - REMOVE MASONRY PARTITION.
 - 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
 - 2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
 - REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
 - REMOVE DOOR, FRAME, AND HARDWARE.
 - REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
 - REMOVE FLASHING.
 - 3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
 - 1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
 - 1 CONTRACTOR IS TO SAW CUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
 - 1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
 - REMOVE OVERHEAD CRANE.
 - REMOVE EXISTING LOCKERS.
 - REMOVE INSULATION, AND MTL, ROOF.
 - REMOVE INSULATION.
 - 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
 - REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
 - 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
 - REMOVE ROOF HATCH, LADDER AND CURB.
 - 2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
 - REMOVE GUTTER.
 - REMOVE EXIST MASONRY BELOW WINDOW.
 - MASONRY OPENING TO RECEIVE DOOR.
 - MASONRY OPENING TO RECEIVE WINDOW.
 - REMOVE MASONRY SILL.
 - 3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
 - CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. 3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. 1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH.
 - REMOVE MASONRY LINTEL TO MATCH WINDOW & HEIGHT. SEE STRUCTURAL DRAWINGS.
 - REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
 - 4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP,
PLUMBING AND STRUCTURAL
DRAWINGS FOR ADDITIONAL
DEMOLITION INFORMATION

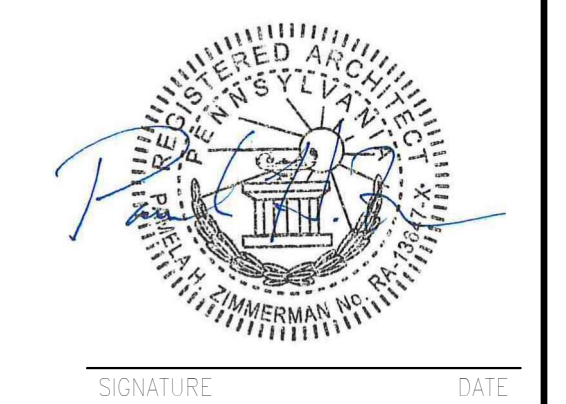


1 DEMOLITION PLAN
1/8" = 1'-0"



BID SET 08/26/2024	DESIGN DEVELOPMENT 01/25/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD - REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN
STUDIO LLC
ARCHITECTURE +
PROJECT MANAGEMENT

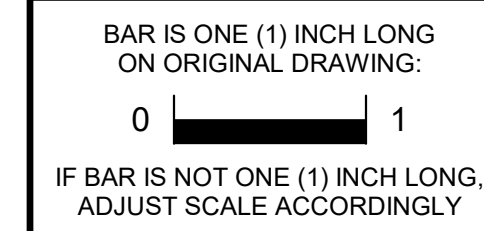
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
DEMOLITION PLAN

ALL WORK ON THIS DRAWING IS
TO BE INCLUDED BY THE 1
CONTRACTOR, EXCEPT WORK
NOTED TO BE BY 2, 3, OR 4
CONTRACTOR

VERIFY SCALE



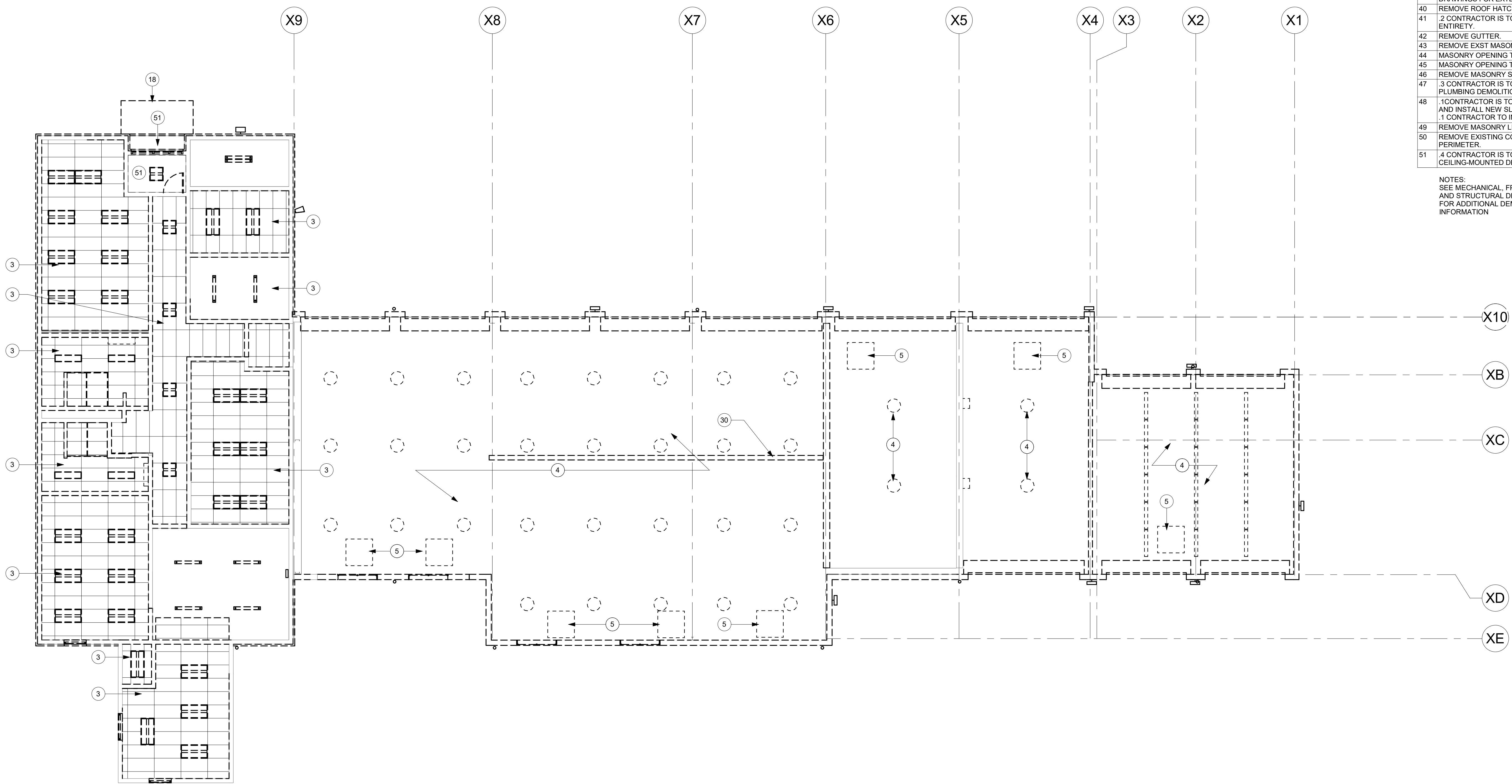
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.0
CHECKED BY AK	SCALE As indicated	

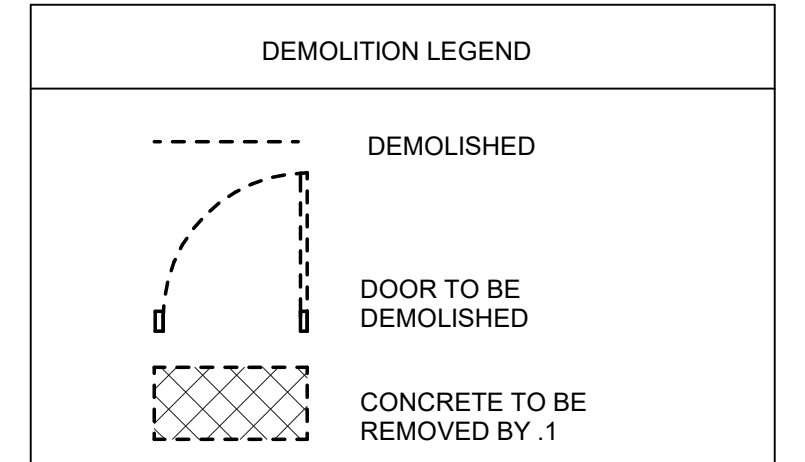
- GENERAL DEMOLITION NOTES**
- A. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
 - B. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
 - C. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
 - D. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
 - E. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
 - F. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX, COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
 - G. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
 - H. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
 - I. SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
 - J. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

- KEYED DEMOLITION NOTES**
- 1 REMOVE CARPET.
 - 2 REMOVE VCT.
 - 3 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
 - 4 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
 - 5 2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
 - 6 CONTRACTOR IS TO REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
 - 7 REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
 - 8 REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
 - 9 REMOVE MTL. SIDING.
 - 10 REMOVE SINGLE MEMBRANE ROOF.
 - 11 REMOVE MTL. ROOF PANEL.
 - 12 2 CONTRACTOR IS TO REMOVE AHU.
 - 13 REMOVE MTL. GRAVEL STOP.
 - 14 REMOVE WINDOW.
 - 15 REMOVE MASONRY PARTITION.
 - 16 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
 - 17 2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
 - 18 REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
 - 19 REMOVE DOOR, FRAME, AND HARDWARE.
 - 20 REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
 - 21 REMOVE FLASHING.
 - 22 3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
 - 23 1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
 - 26 1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
 - 29 1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
 - 30 REMOVE OVERHEAD CRANE.
 - 31 REMOVE EXISTING LOCKERS.
 - 32 REMOVE INSULATION, AND MTL. ROOF.
 - 34 REMOVE INSULATION.
 - 35 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 36 2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 37 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
 - 38 REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
 - 39 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
 - 40 REMOVE ROOF HATCH, LADDER AND CURB.
 - 41 2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
 - 42 REMOVE GUTTER.
 - 43 REMOVE EXST MASONRY BELOW WINDOW.
 - 44 MASONRY OPENING TO RECEIVE DOOR.
 - 45 MASONRY OPENING TO RECEIVE WINDOW.
 - 46 REMOVE MASONRY SILL.
 - 47 3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
 - 48 1 CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. 3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. 1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH.
 - 49 REMOVE MASONRY LINTEL TO MATCH WINDOW 8 HEIGHT. SEE STRUCTURAL DRAWINGS.
 - 50 REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
 - 51 4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

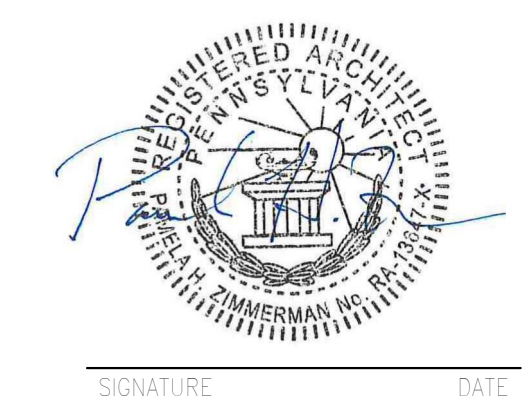


1 REFLECTED CEILING DEMOLITION PLAN
1/8" = 1'-0"



BID SET 08/28/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
CEILING DEMOLITION PLAN

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-1.1
CHECKED BY AK	SCALE As indicated	

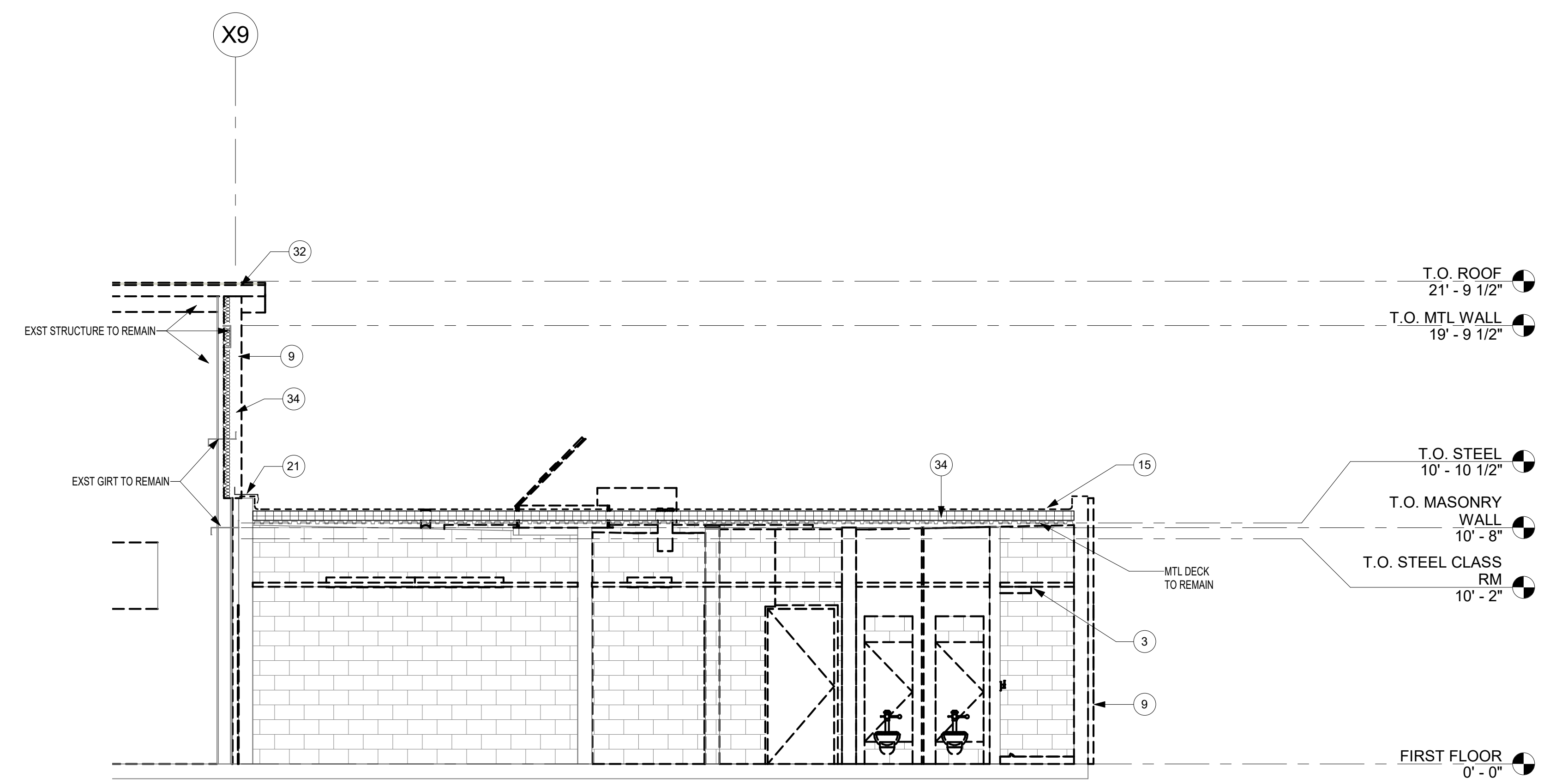
GENERAL DEMOLITION NOTES

- A. VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
- B. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
- C. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
- D. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
- E. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
- F. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
- G. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
- H. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
- I. SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
- J. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

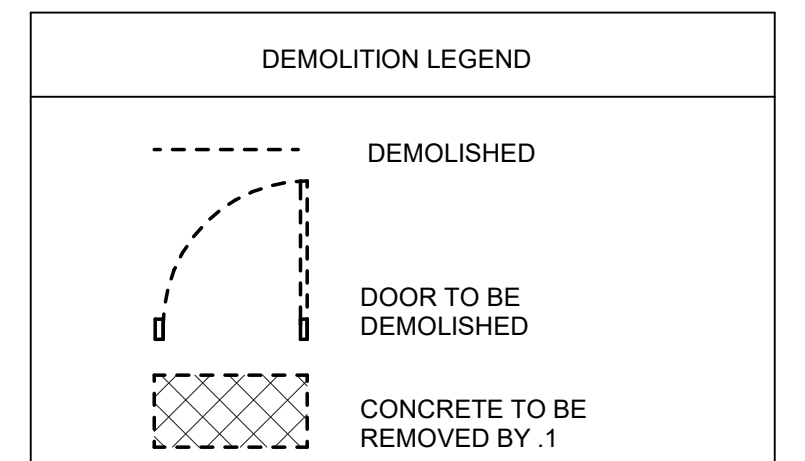
KEYED DEMOLITION NOTES

- 1 REMOVE CARPET.
- 2 REMOVE VCT.
- 3 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
- 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
- 2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
- CONTRACTOR IS TO REMOVE OVERHEAD DOOR. 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
- REMOVE INTERIOR AND EXTERIOR MTL SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
- REMOVE MTL SIDING.
- REMOVE SINGLE MEMBRANE ROOF.
- REMOVE MTL ROOF PANEL.
- 2 CONTRACTOR IS TO REMOVE AHU.
- REMOVE MTL GRAVEL STOP.
- REMOVE WINDOW.
- REMOVE MASONRY PARTITION.
- 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
- 2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
- REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
- REMOVE DOOR FRAME AND HARDWARE.
- REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
- REMOVE FLASHING.
- 3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
- 1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
- 1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
- 1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
- REMOVE OVERHEAD CRANE.
- REMOVE EXISTING LOCKERS.
- REMOVE INSULATION, AND MTL ROOF.
- REMOVE INSULATION.
- 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
- 2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
- 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
- REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
- 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
- REMOVE ROOF HATCH, LADDER AND CURB.
- 2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
- REMOVE GUTTER.
- REMOVE EXST MASONRY BELOW WINDOW.
- MASONRY OPENING TO RECEIVE DOOR.
- MASONRY OPENING TO RECEIVE WINDOW.
- REMOVE MASONRY SILL.
- 3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
- CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. 3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. 1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH.
- REMOVE MASONRY LINTEL TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS.
- REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
- 4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

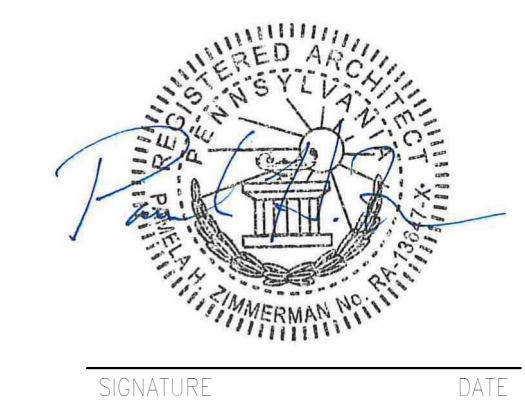


1 LONGITUDINAL DEMOLITION SECTION
1/4" = 1'-0"



BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 10/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT - REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

DEMOLITION SECTIONS

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR



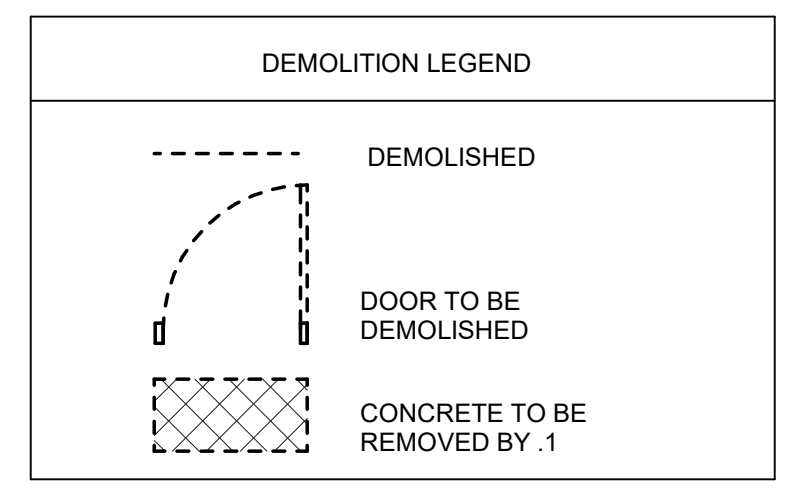
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.		DRAWN BY <i>IB</i>	DATE 08/26/2024	DRAWING No. A-1.3
		CHECKED BY <i>AK</i>	SCALE As Indicated	

- GENERAL DEMOLITION NOTES
- VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
 - MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES.
 - EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
 - PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
 - RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
 - WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX, COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
 - WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFLIT CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
 - WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
 - SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND FIXTURES NOT SHOWN.
 - ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 LEAD IN CONSTRUCTION STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 FOR ADDITIONAL INFORMATION.

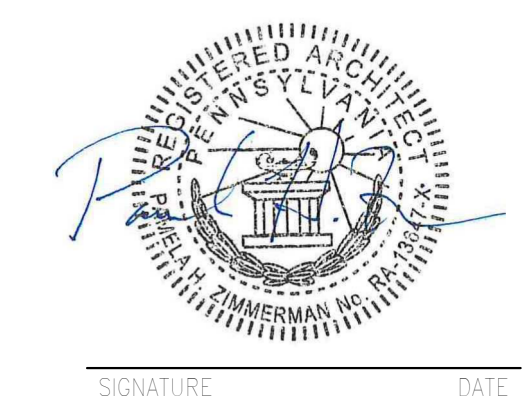
- KEYED DEMOLITION NOTES
- REMOVE CARPET.
 - REMOVE VCT.
 - 4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
 - 4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
 - CONTRACTOR IS TO REMOVE OVERHEAD DOOR, 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
 - REMOVE OVERHEAD DOOR, 4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.
 - REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN.
 - REMOVE MTL. SIDING.
 - REMOVE SINGLE MEMBRANE ROOF.
 - REMOVE MTL. ROOF PANEL.
 - 2 CONTRACTOR IS TO REMOVE AHU.
 - REMOVE MTL. GRAVEL STOP.
 - REMOVE WINDOW.
 - REMOVE MASONRY PARTITION.
 - 2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
 - 2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
 - REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
 - REMOVE DOOR, FRAME, AND HARDWARE.
 - REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
 - REMOVE FLASHING.
 - 3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
 - 1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
 - 1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. 3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS.
 - 1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. 3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. 1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
 - REMOVE OVERHEAD CRANE.
 - REMOVE EXISTING LOCKERS.
 - REMOVE INSULATION, AND MTL. ROOF.
 - REMOVE INSULATION.
 - 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN ITS ENTIRETY. 3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
 - 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE. SEE PLUMBING DRAWINGS FOR EXTENT.
 - REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
 - 3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASSOCIATED PIPING. SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
 - REMOVE ROOF HATCH, LADDER AND CURB.
 - 2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.
 - REMOVE GUTTER.
 - REMOVE EXIST MASONRY BELOW WINDOW.
 - MASONRY OPENING TO RECEIVE DOOR.
 - MASONRY OPENING TO RECEIVE WINDOW.
 - REMOVE MASONRY SILL.
 - 3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASSOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS.
 - 1 CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. 3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. 1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH.
 - REMOVE MASONRY LINTEL, TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS.
 - REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER.
 - 4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

NOTES:
SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION



REV SET	DESIGN DEVELOPMENT
08/26/2024	01/28/2024
CONSTRUCTION DOCUMENTS	REVISED
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

BUILDING DEMOLITION ELEVATIONS

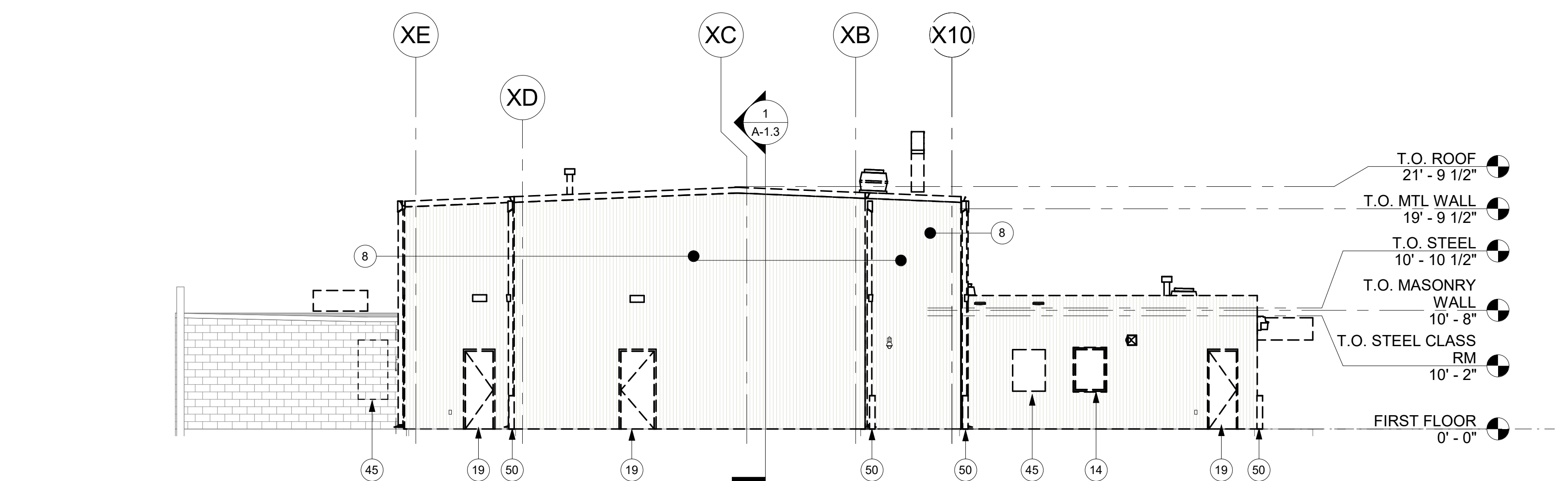
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1

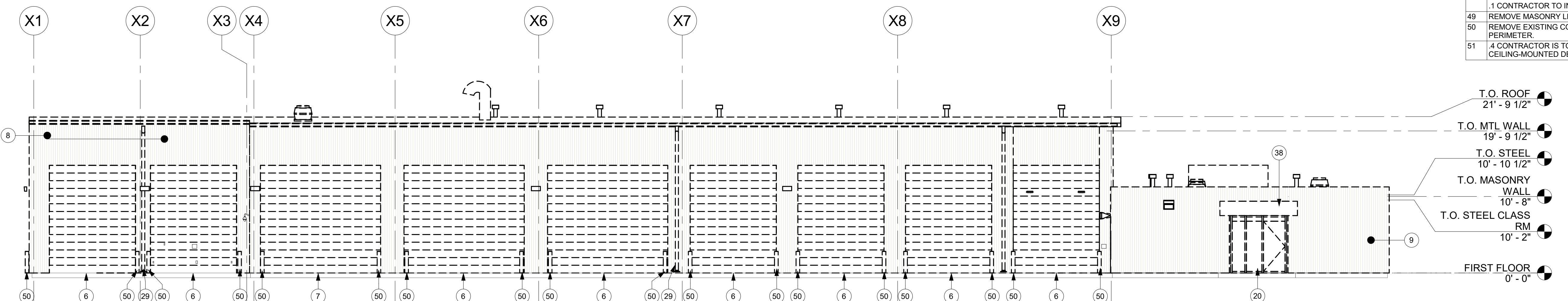
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

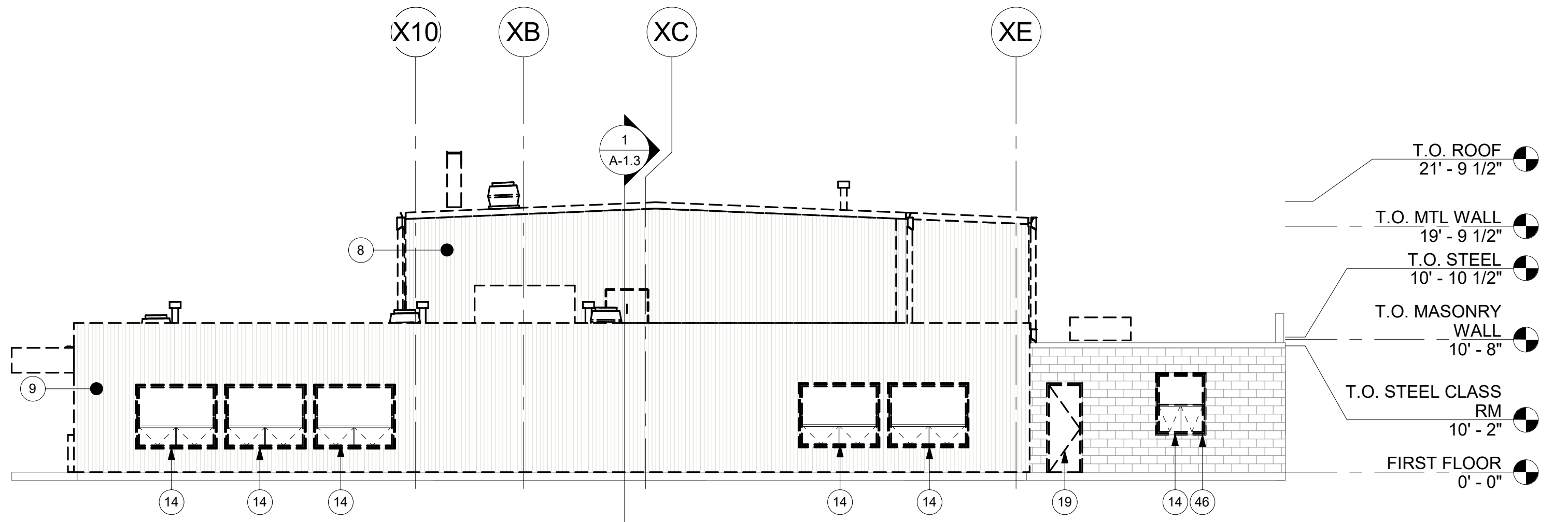
DRAWN BY	DATE	DRAWING No.
IB	08/26/2024	A-1.4
CHECKED BY	SCALE	
AK	As Indicated	



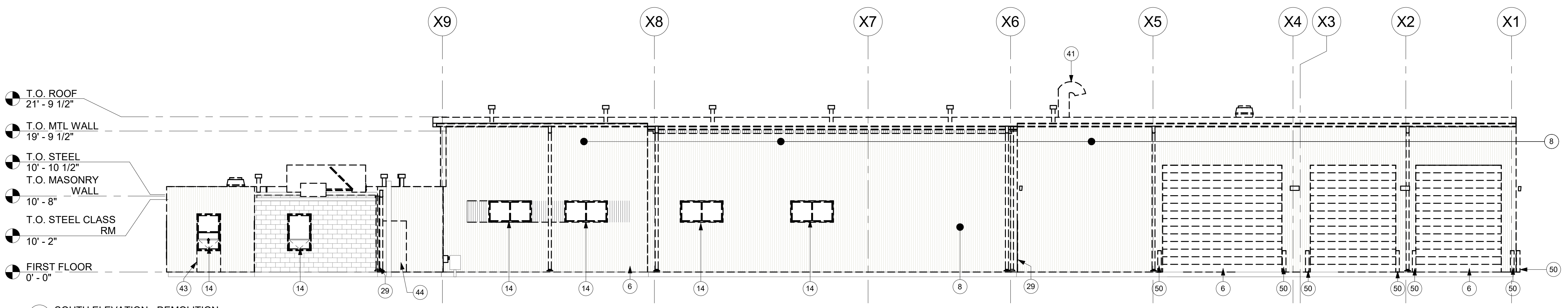
1 EAST ELEVATION - DEMOLITION
1/8" = 1'-0"



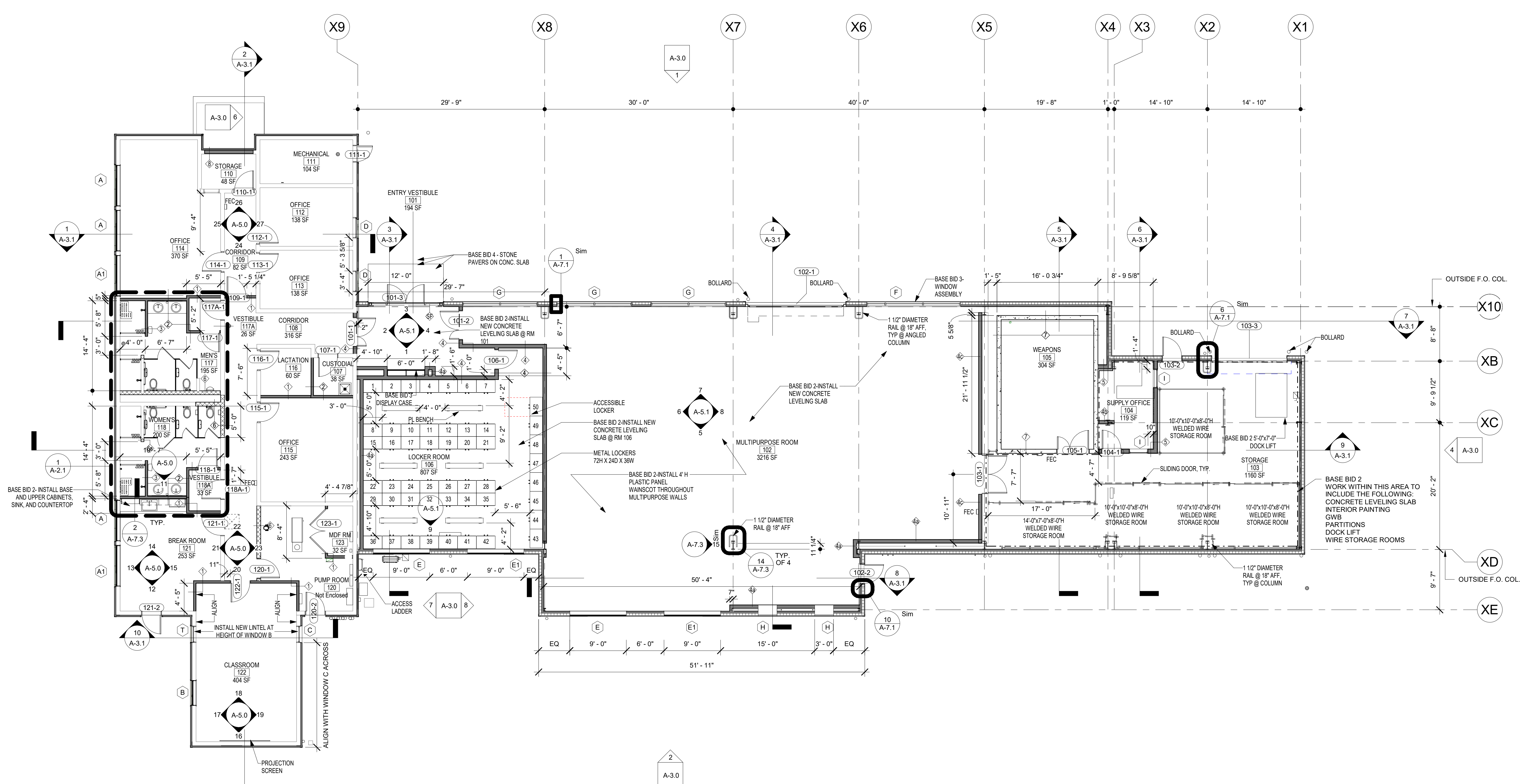
2 NORTH ELEVATION - DEMOLITION
1/8" = 1'-0"



3 WEST ELEVATION - DEMOLITION
1/8" = 1'-0"



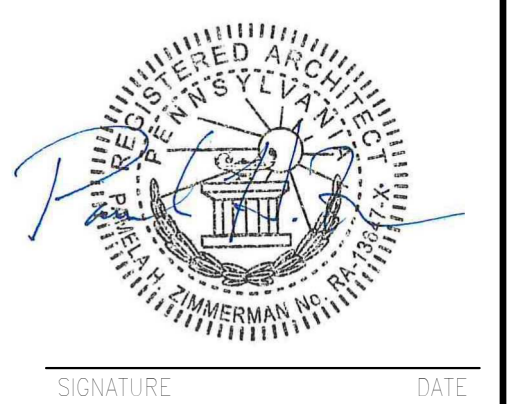
4 SOUTH ELEVATION - DEMOLITION
1/8" = 1'-0"



1 FLOOR PLAN 9.628.GSF
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/25/2024
CONSTRUCTION DOCUMENTS 10/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO **INC.**
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

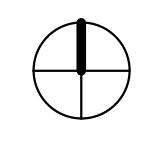
FLOOR PLAN

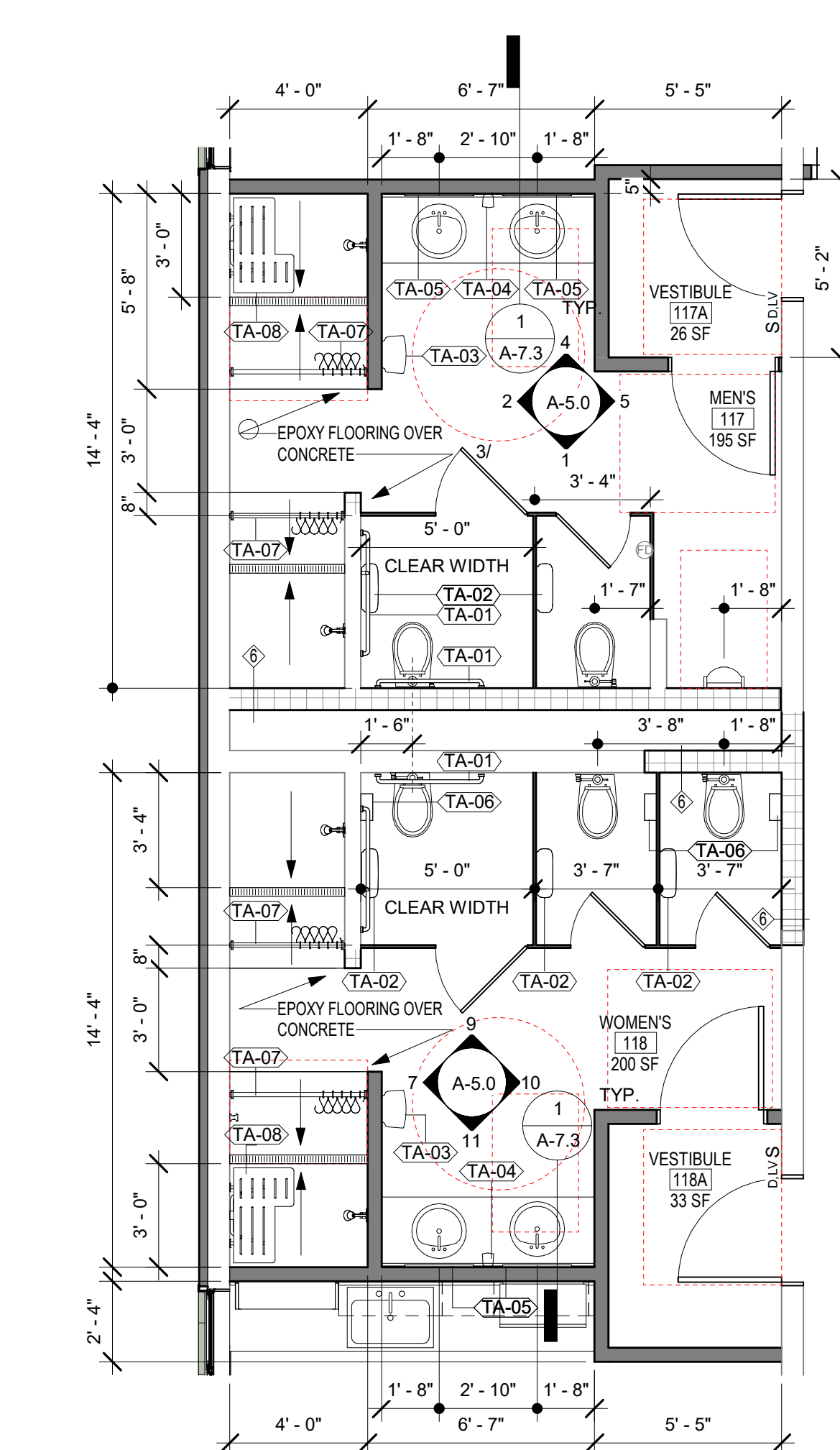
DRAWN BY: IB DATE: 08/26/2024 DRAWING No.: A-2.0
CHECKED BY: AK SCALE: 1/8" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

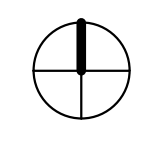
VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.





1 BATHROOMS FLOOR PLAN
1/4" = 1'-0"



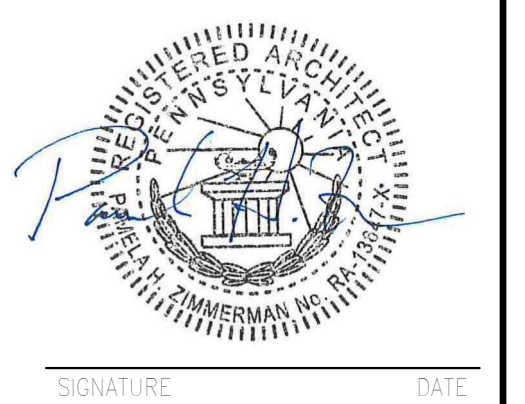
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document- August 26, 2024



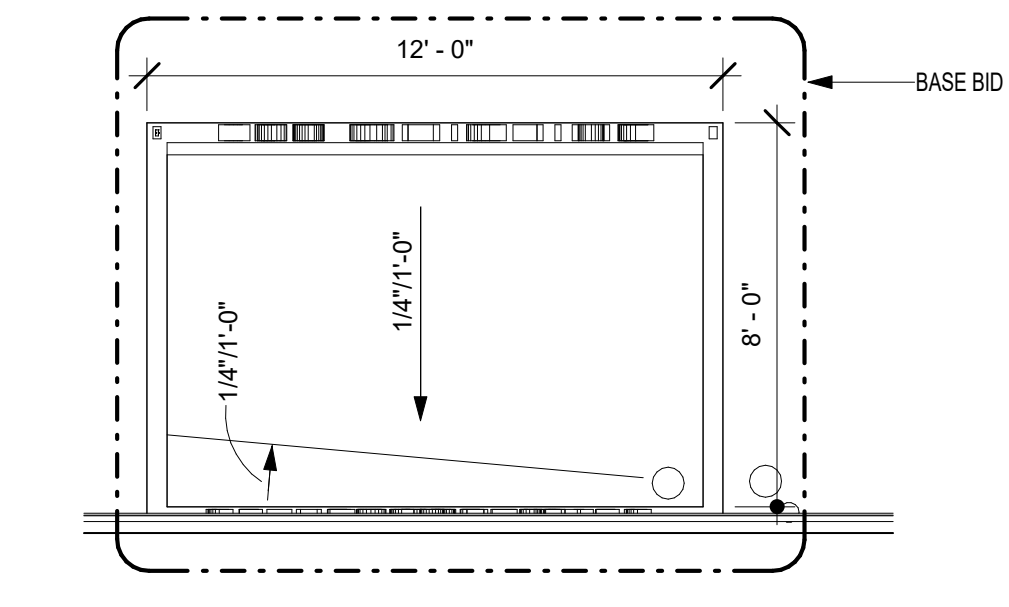
ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

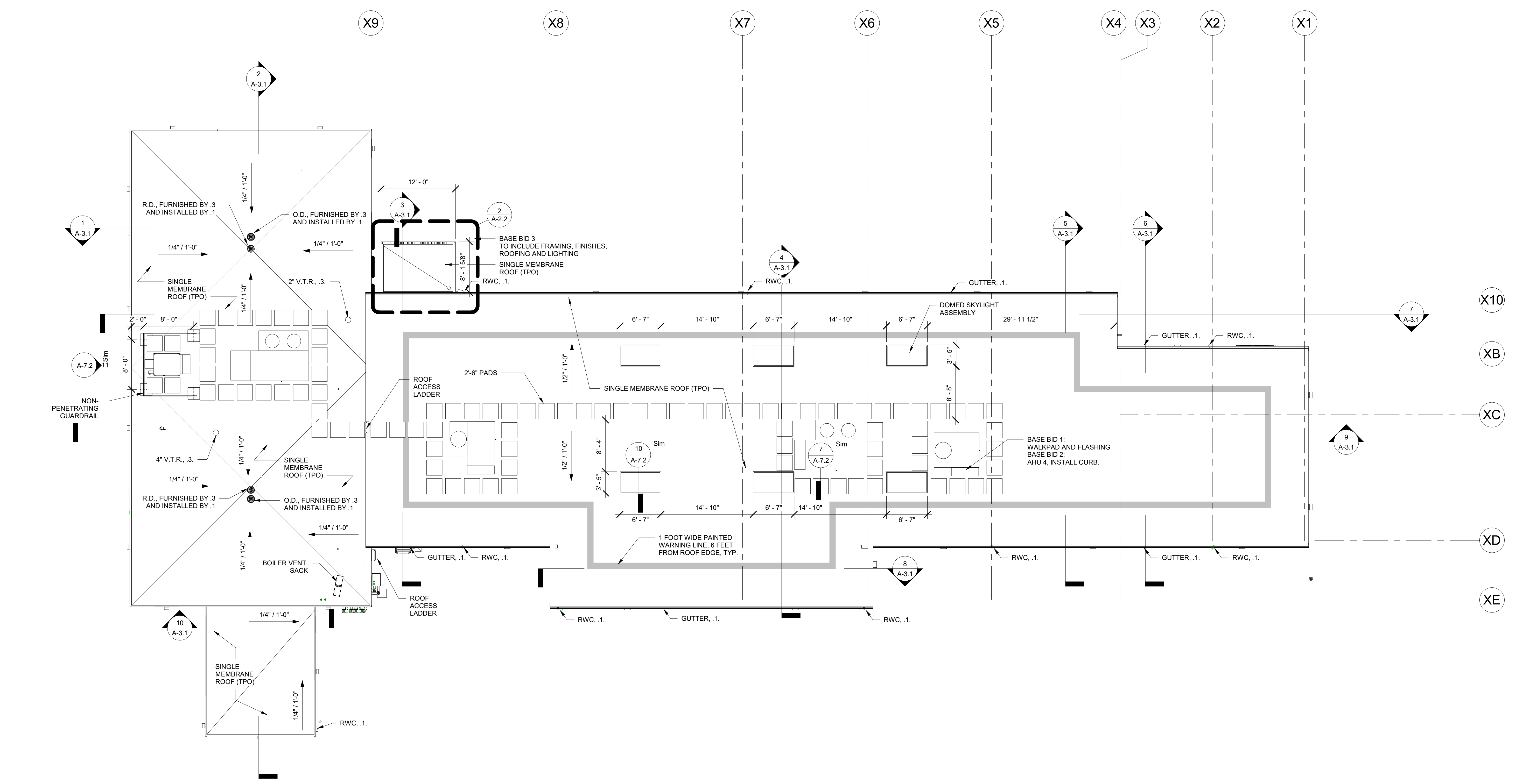
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

ENLARGED PLAN MEN'S & WOMEN'S

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-2.1
CHECKED BY AK	SCALE 1/4" = 1'-0"	



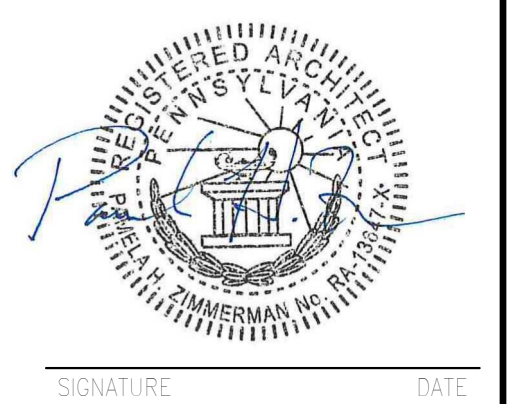
2 ROOF PLAN - CANOPY
1/4" = 1'-0"



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

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



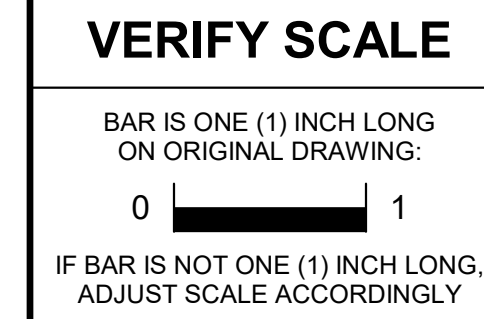
ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
ROOF PLAN/ENLARGE CANOPY

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR



CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

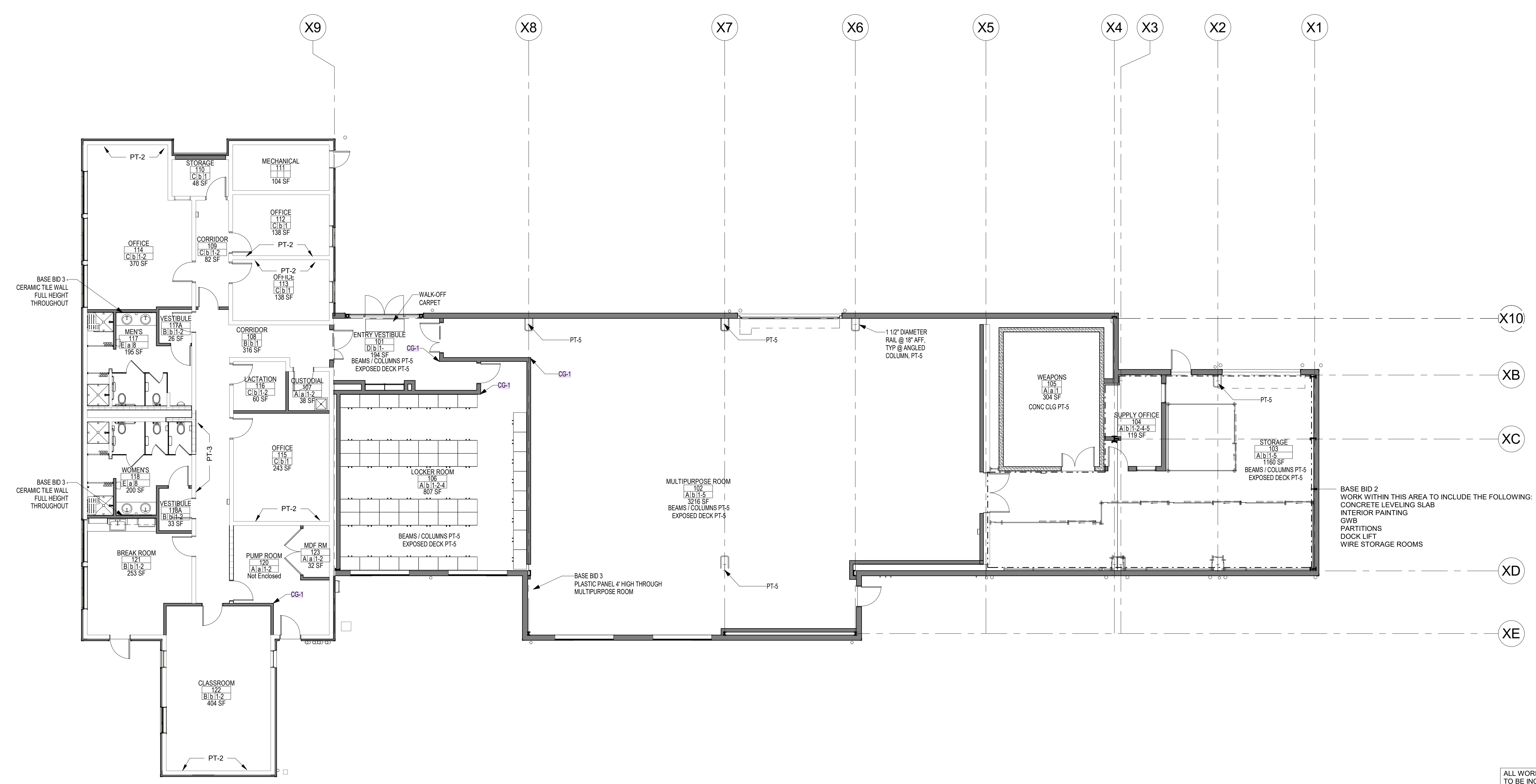
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-2.2
CHECKED BY AK	SCALE As Indicated	



FLOOR FINISH SCHEDULE	
A - -	SEALED CONCRETE
B - -	VCT
C - -	CARPET TILE - CPT-1
D - -	CARPET TILE - CPT-2
E - -	EPOXY FLOORING - DECORATIVE QUARTZ

WALL BASE FINISH SCHEDULE	
- a -	EPOXY COVE
- b -	RUBBER COVE
- c -	PORCELAIN TILE COVE

WALL FINISH SCHEDULE	
- - 1	PAINT - PT-1
- - 2	PAINT - PT-2
- - 3	PAINT - PT-3
- - 4	PAINT - PT-4
- - 5	PAINT - PT-5
- - 6	PAINT - PT-6
- - 7	PAINT - PT-7
- - 8	FIBERGLASS REINFORCED PLASTIC (FRP)
- - 9	PVC PANELING
- - 10	CERAMIC WALL TILE (BASE BID 4) WT-1
- - 11	CERAMIC WALL TILE (BASE BID 4) WT-2



1 FINISH PLAN
1/8" = 1'-0"

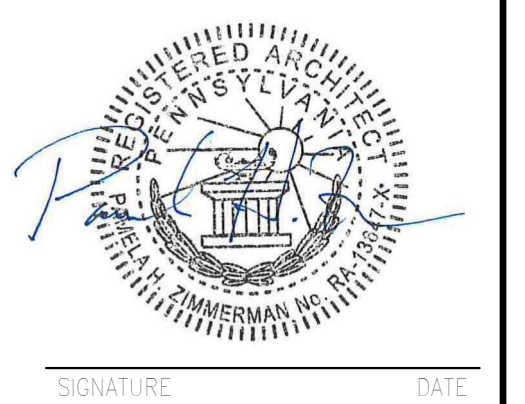
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISED
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

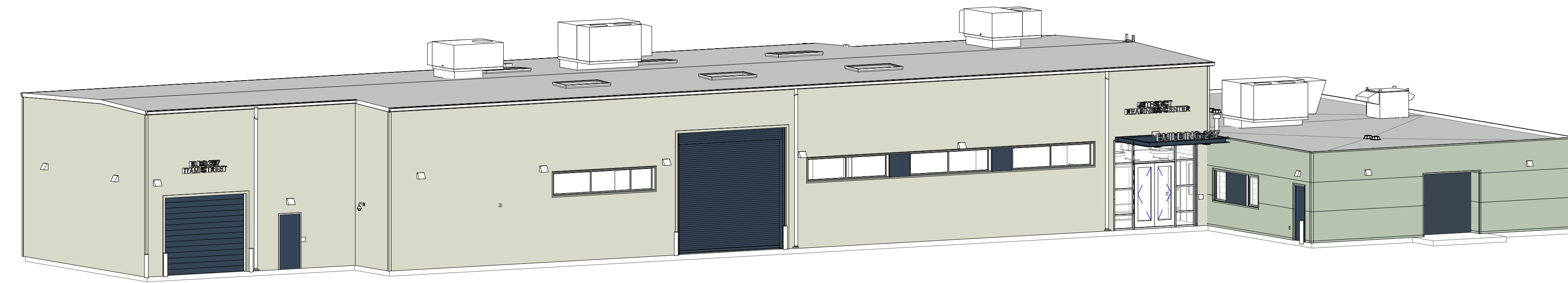
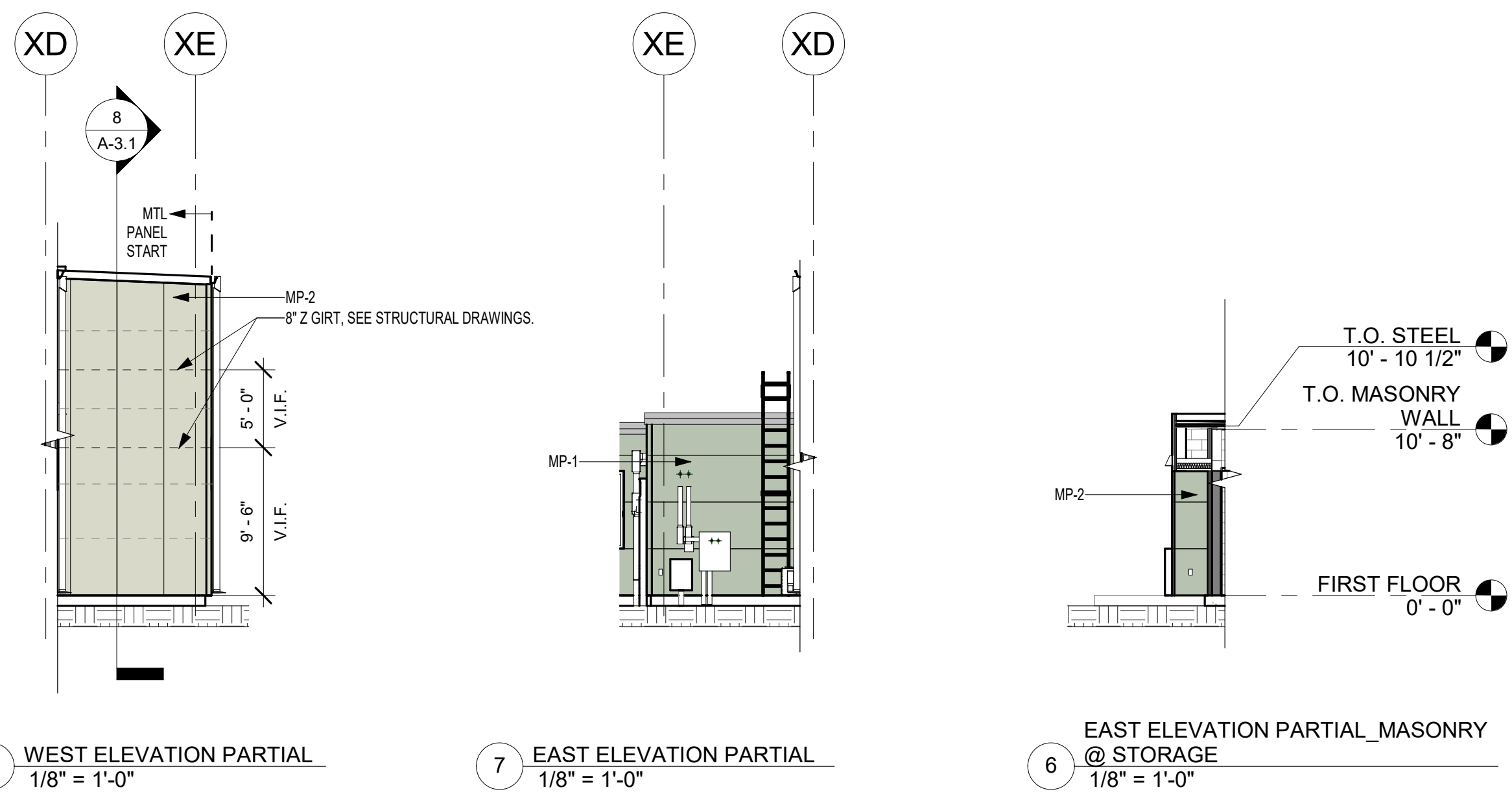
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

FINISH PLAN

DRAWN BY	DATE	DRAWING No.
IB	08/26/2024	A-2.3
CHECKED BY	SCALE	
AK	1/8" = 1'-0"	

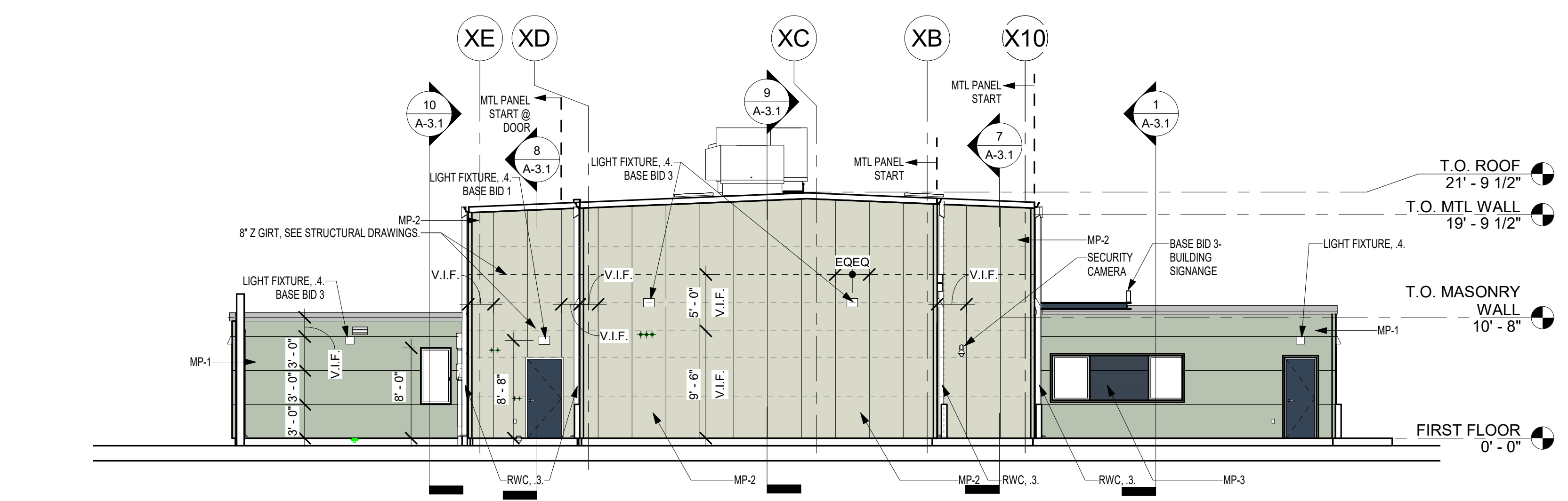


5 ACCESS VIEW

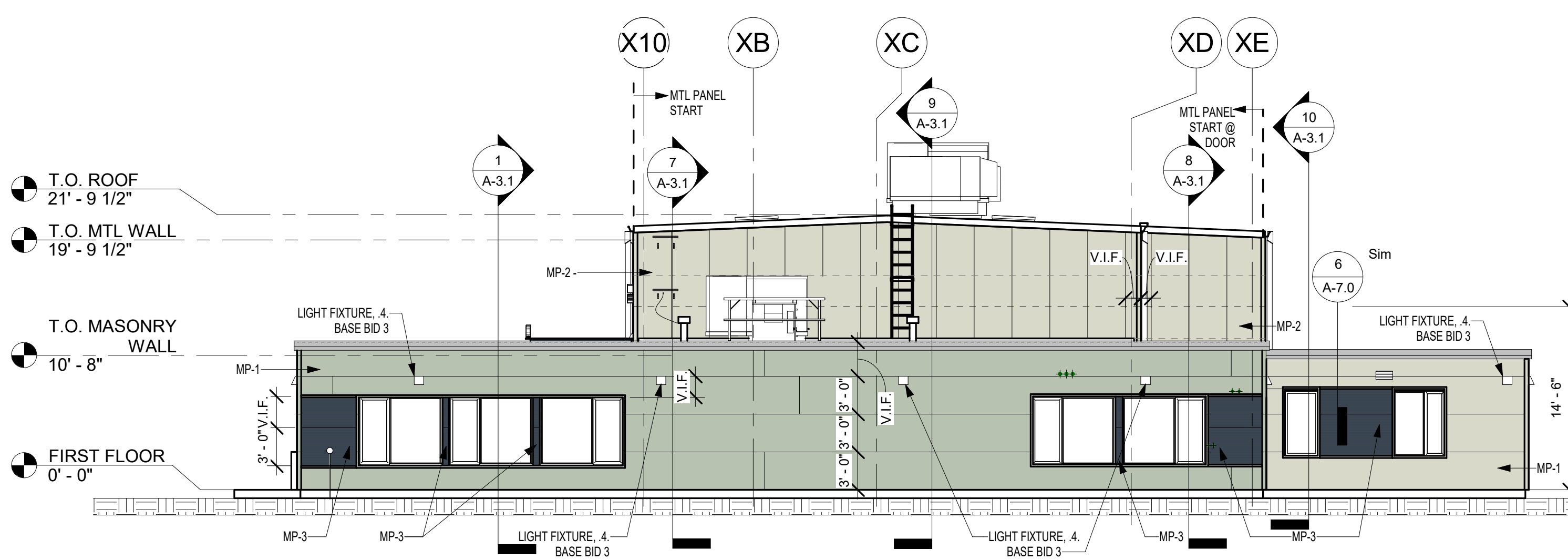
8 WEST ELEVATION PARTIAL
1/8" = 1'-0"

7 EAST ELEVATION PARTIAL
1/8" = 1'-0"

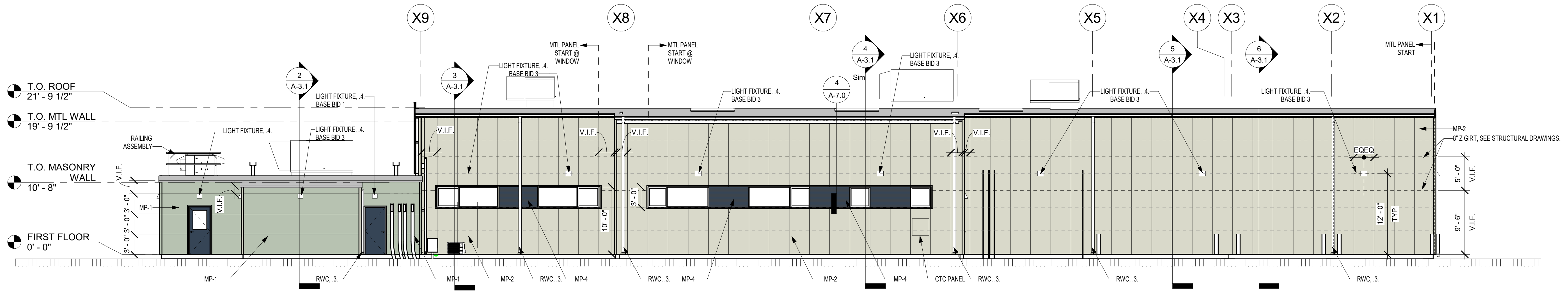
6 EAST ELEVATION PARTIAL_MASONRY
1/8" = 1'-0"



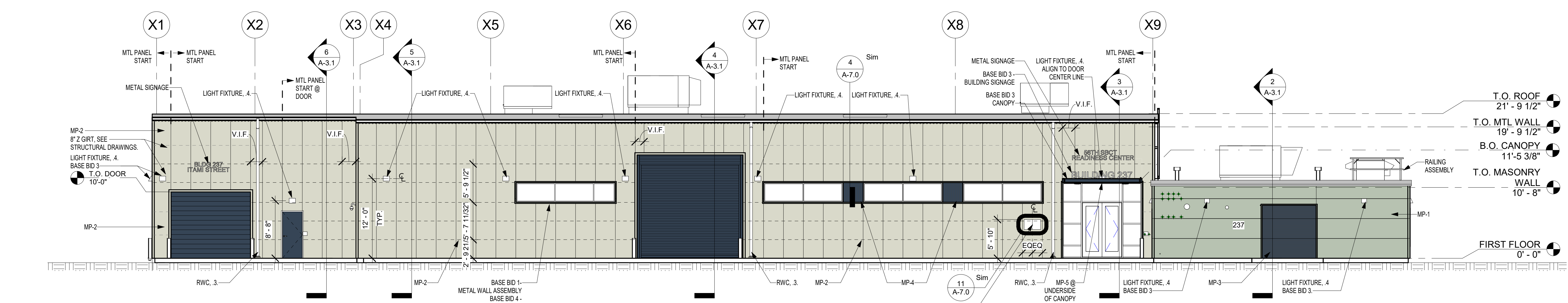
4 EAST ELEVATION
1/8" = 1'-0"



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



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



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

LEGEND

- NEW 8" GRT
- EXIST 8" GRT

METAL PANEL SCHEDULE

- MP-1: HORIZONTAL GREEN MOSS, 3" THICK, 36" WIDE
- MP-2: VERTICAL LIME STONE, 2 3/4" THICK, 36" WIDE
- MP-3: HORIZONTAL CHARCOAL, 3" THICK, 36" WIDE
- MP-4: VERTICAL CHARCOAL, 2 3/4" THICK, 36" WIDE
- MP-5: CONCEALED FASTENER METAL PANEL, CHARCOAL

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

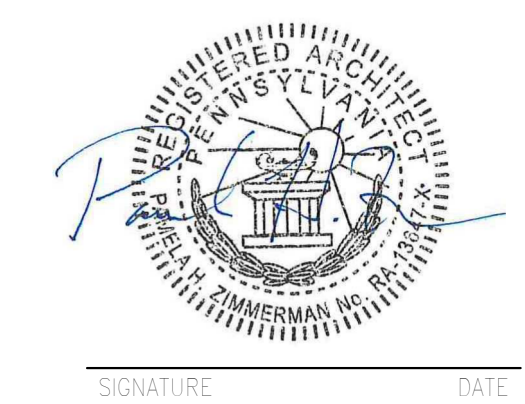
0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 10/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

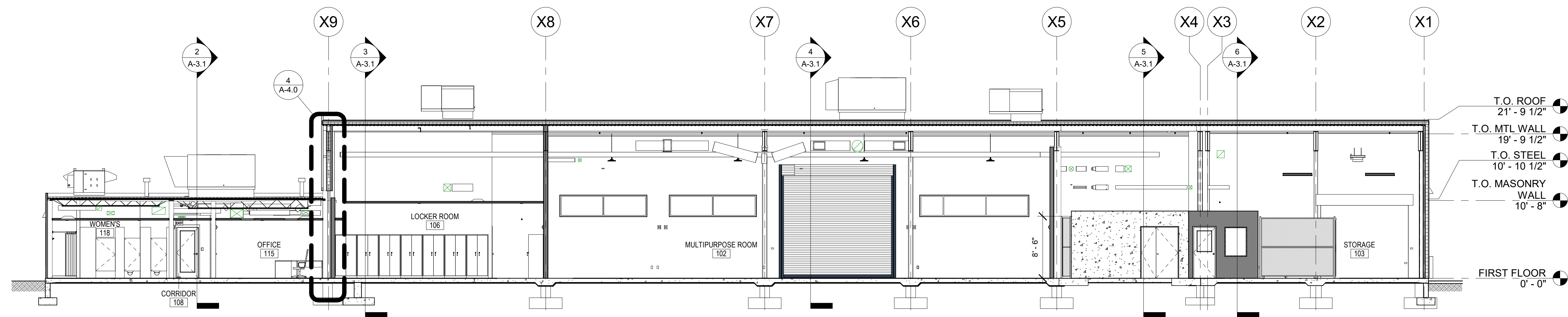
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

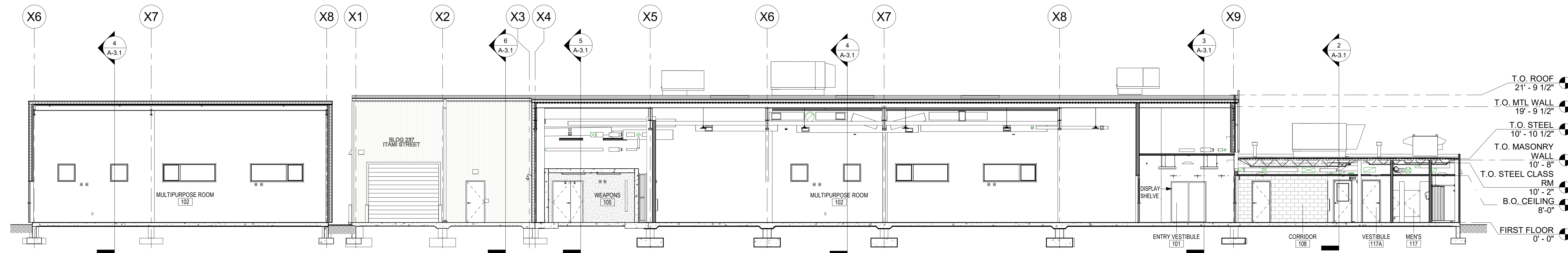
BUILDING ELEVATIONS

DRAWN BY: **IB** DATE: **08/26/2024** DRAWING No.: **A-3.0**

CHECKED BY: **AK** SCALE: **1/8" = 1'-0"**

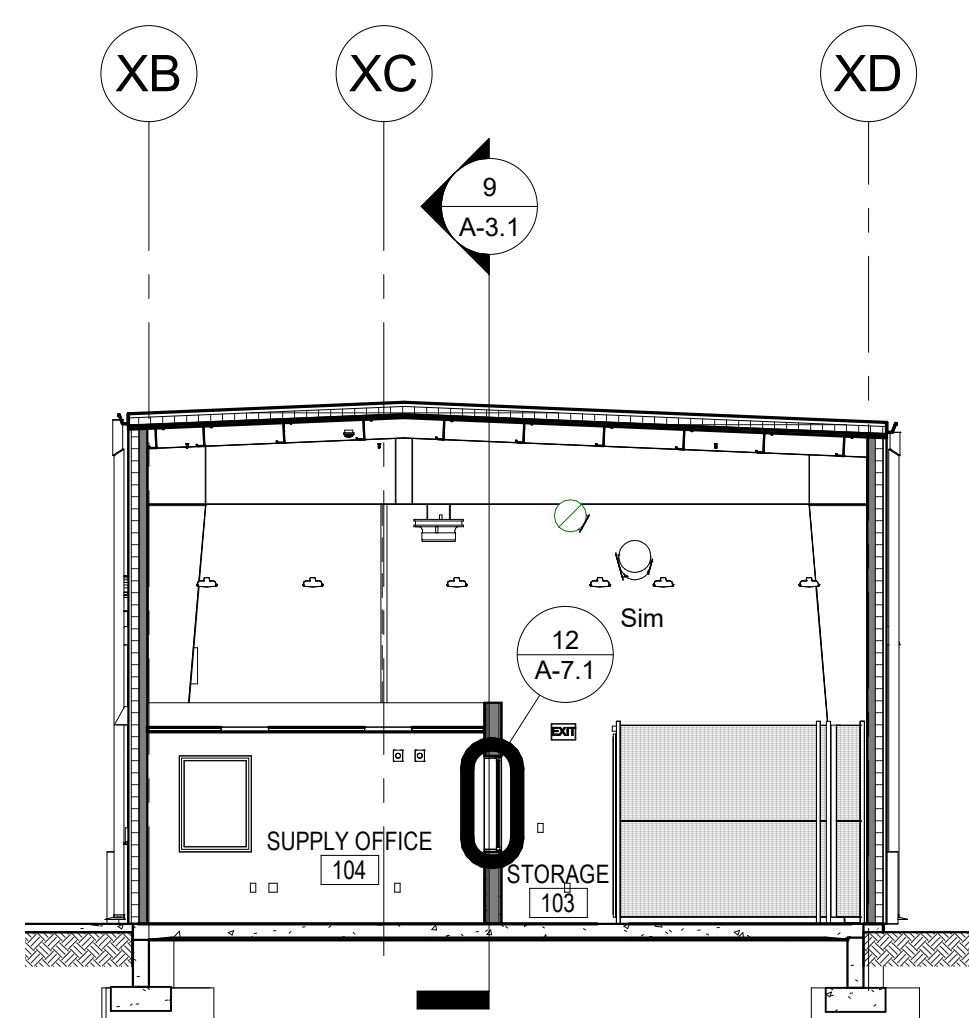


9 LONGITUDINAL SECTION 1
1/8" = 1'-0"

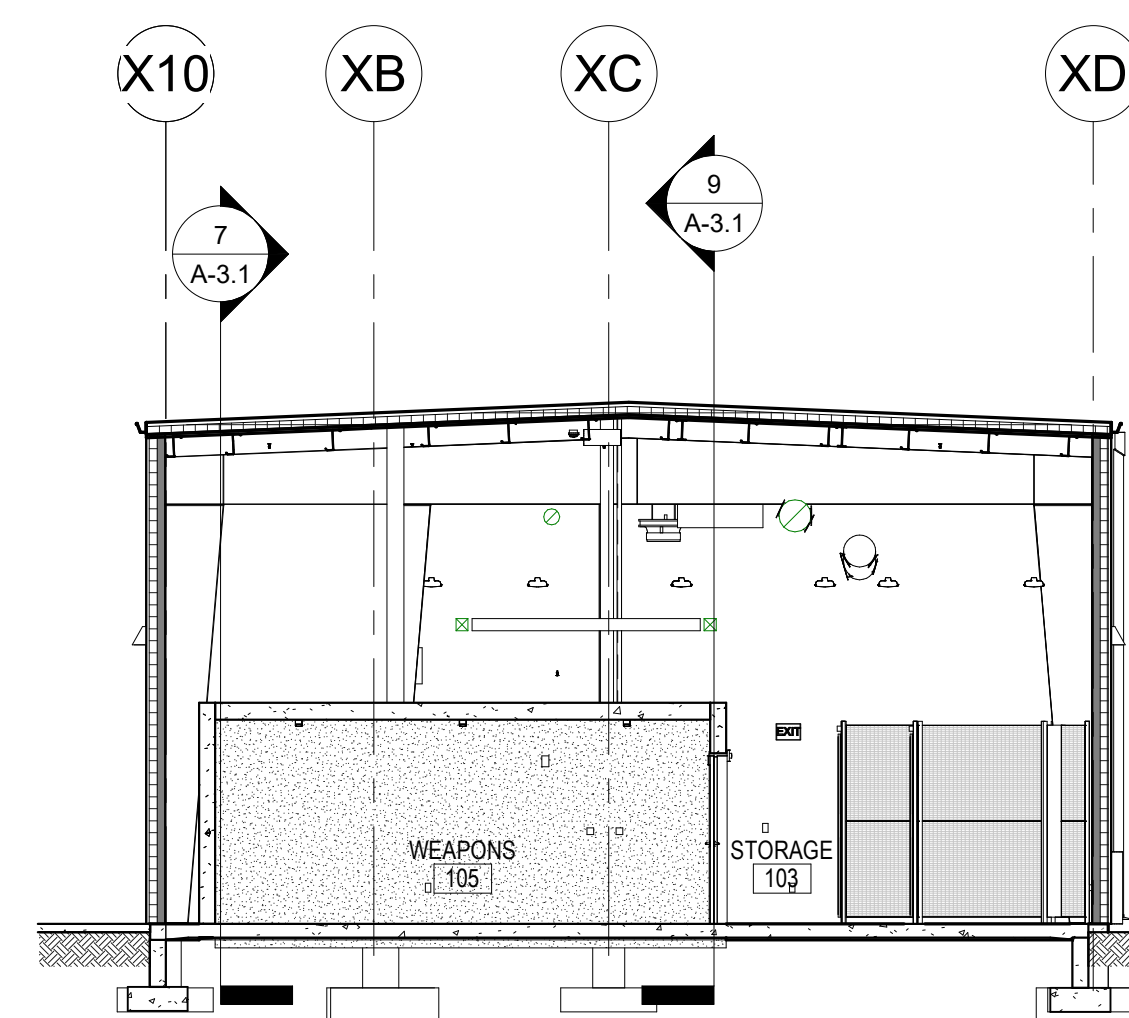


8 SECTION PARTIAL @ MULTIPORPUSE
1/8" = 1'-0"

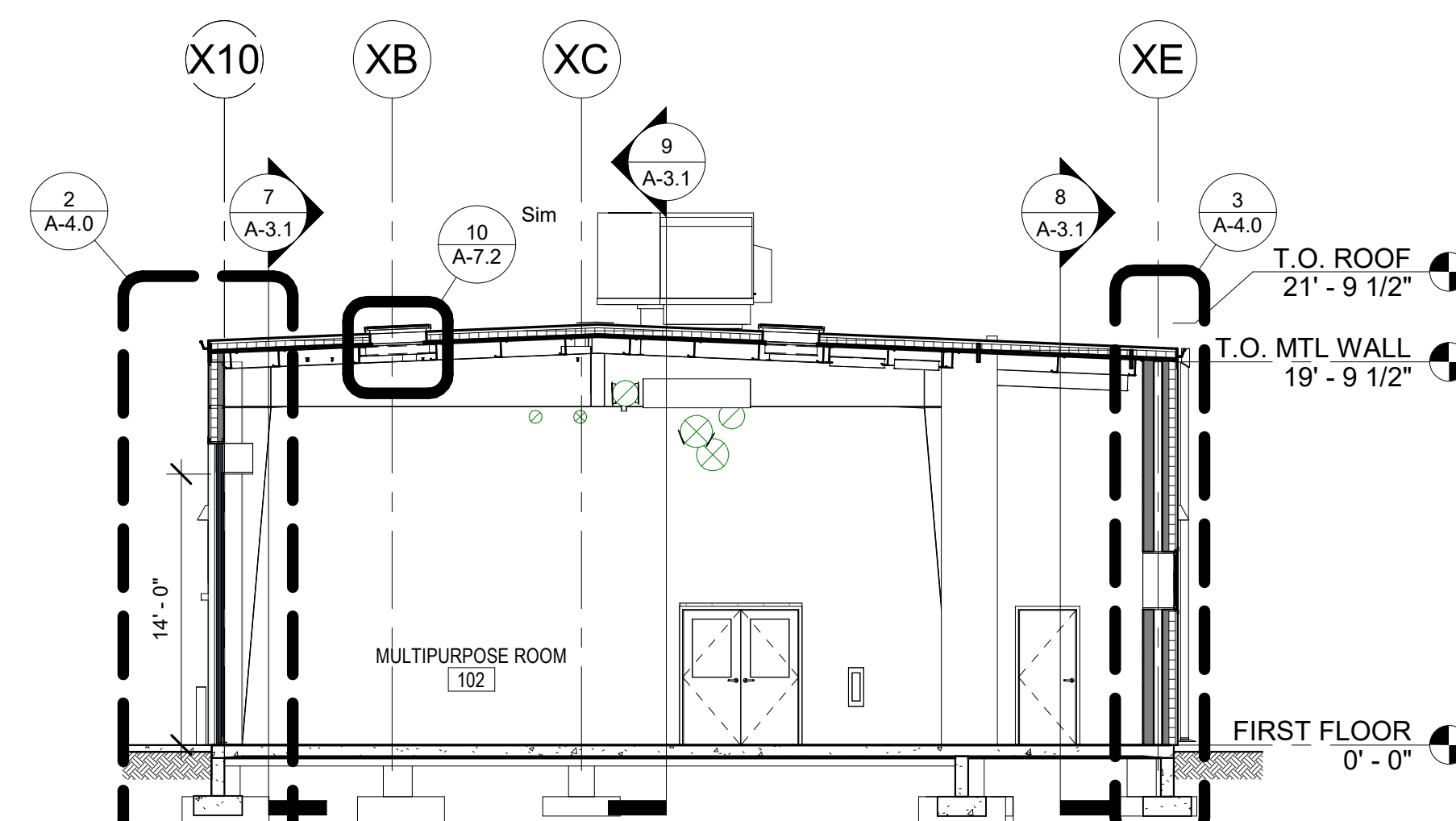
7 LONGITUDINAL SECTION 2
1/8" = 1'-0"



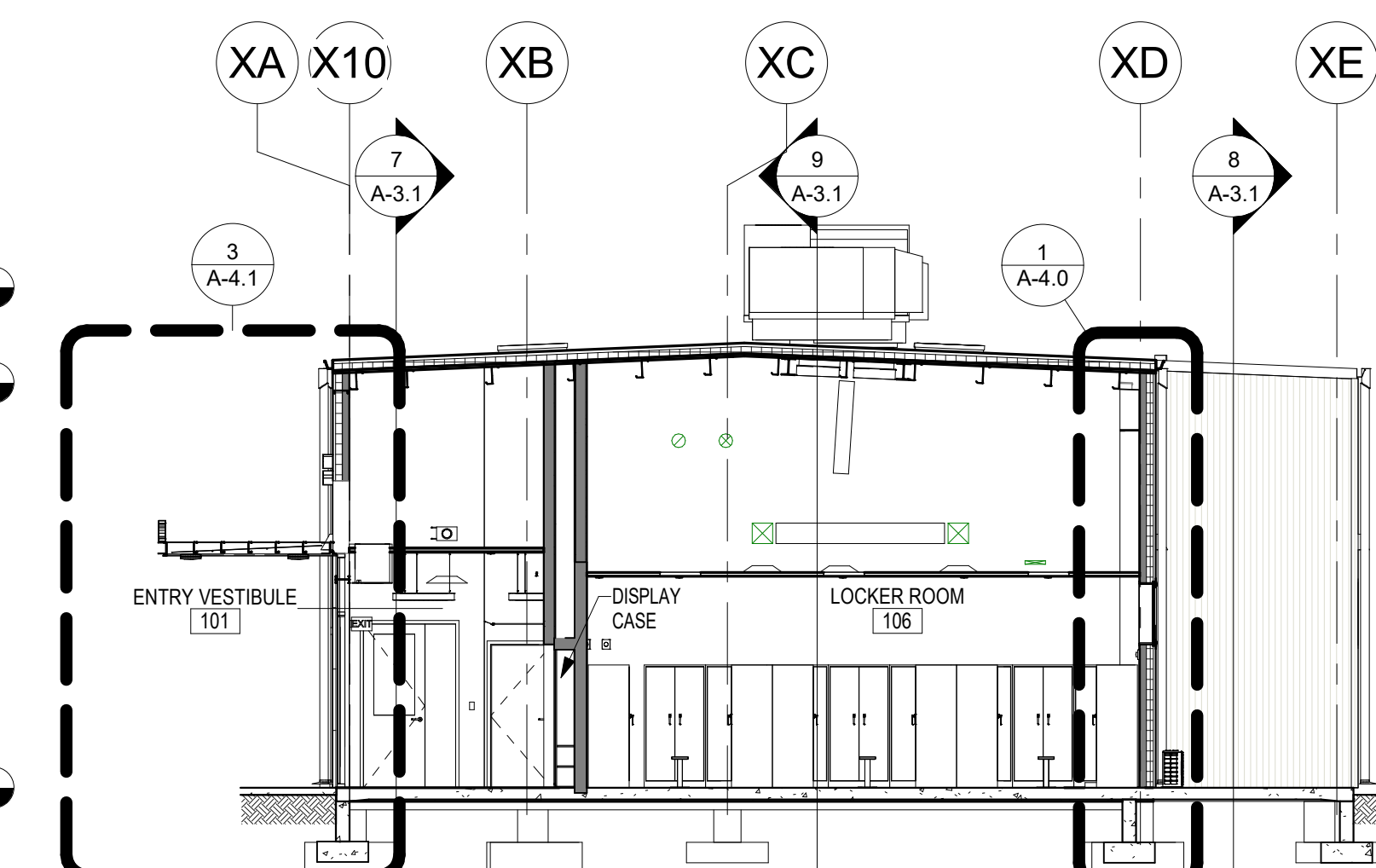
6 SECTION @ STORAGE
1/8" = 1'-0"



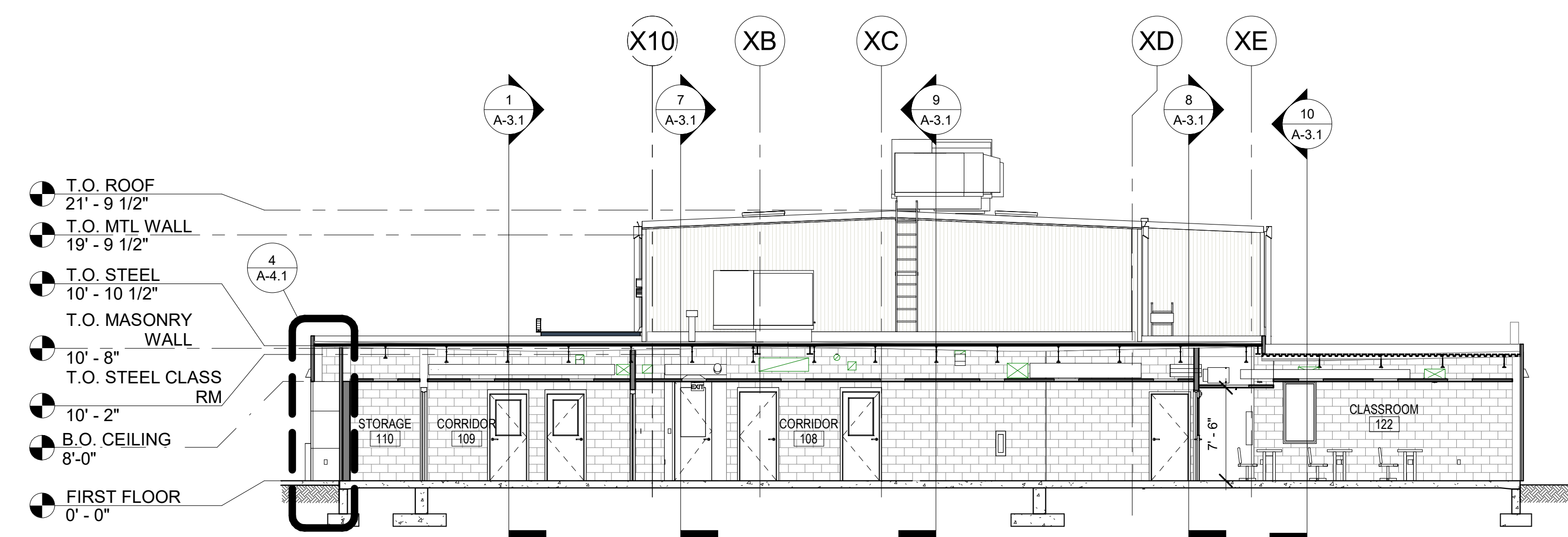
5 SECTION @ WEAPONS VAULT
1/8" = 1'-0"



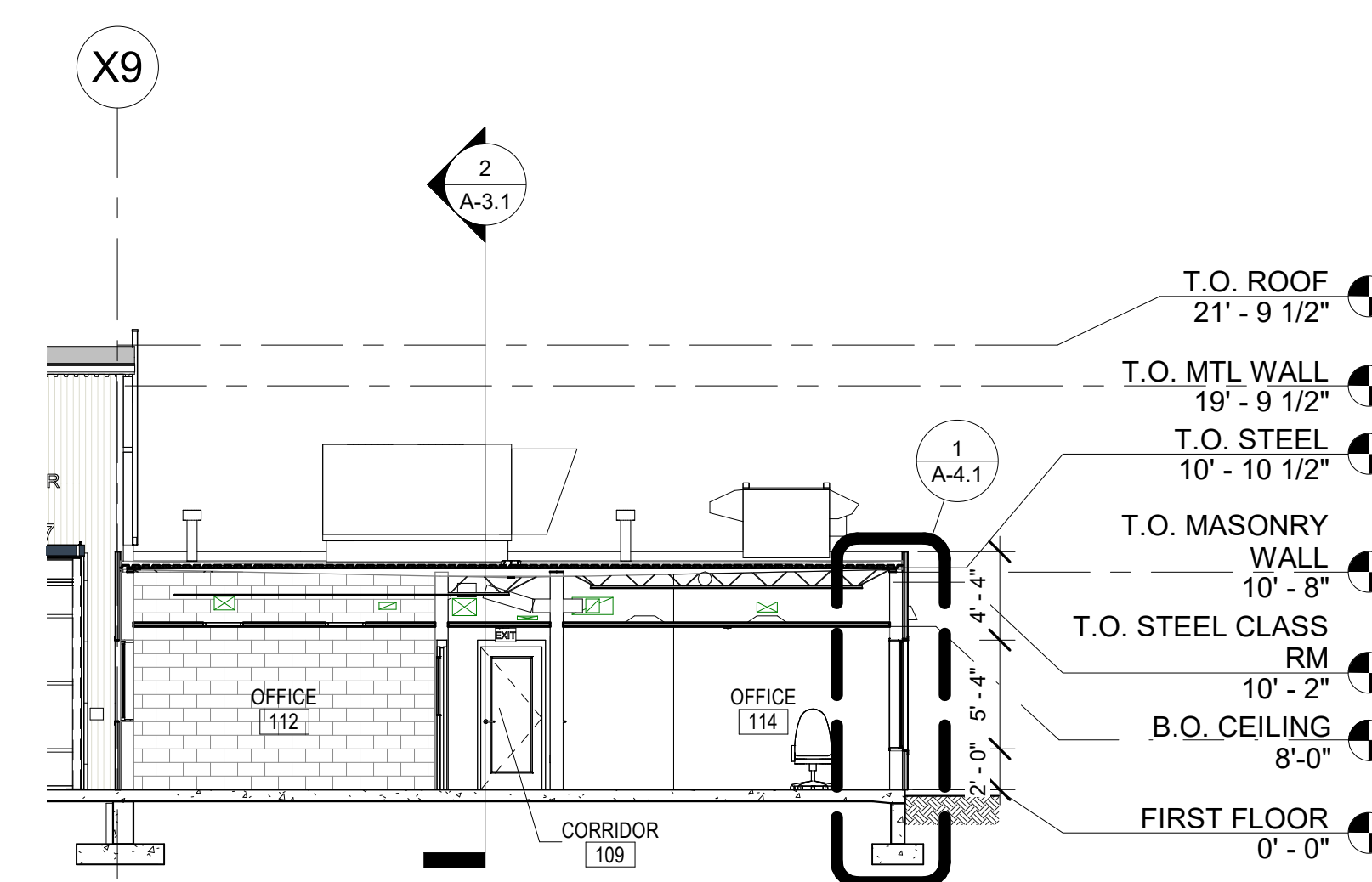
4 PREMANUFACTURED BUILDING
TRANSVERSAL SECTION
1/8" = 1'-0"



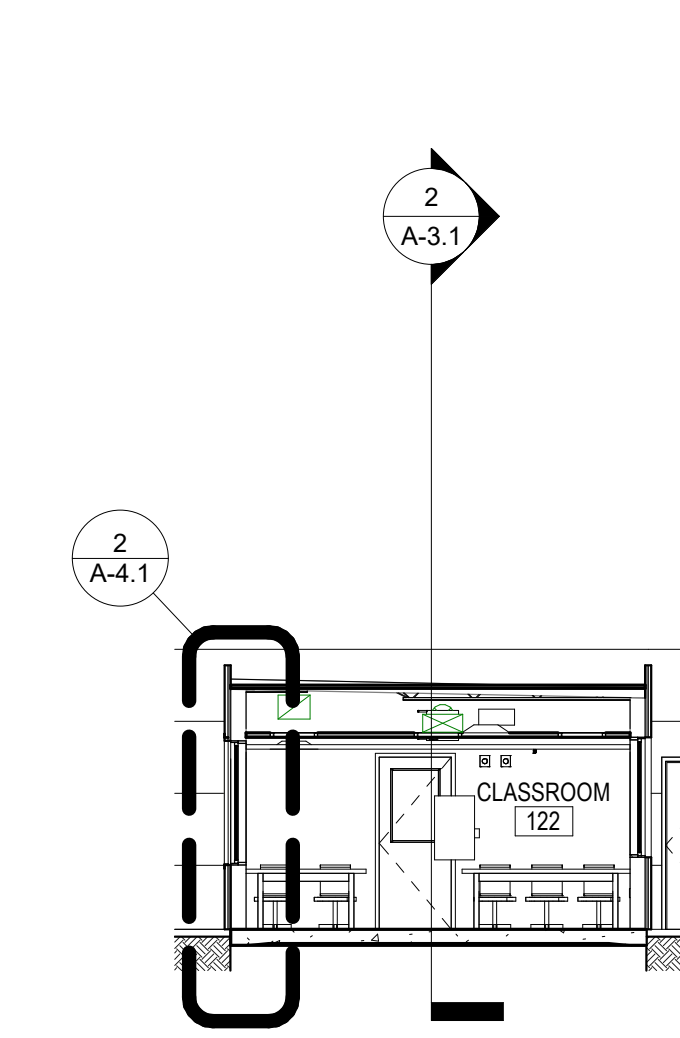
3 SECTION @ VESTIBULE & LOCKER
ROOM
1/8" = 1'-0"



2 MASONRY BUILDING LONGITUDINAL
SECTION
1/8" = 1'-0"



1 MASONRY BUILDING TRANSVERSAL
SECTION
1/8" = 1'-0"



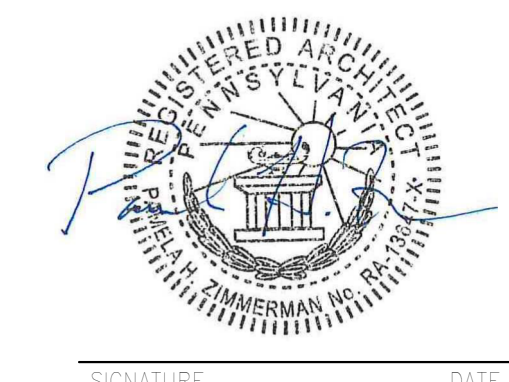
10 SECTION @ CLASSROOM
1/8" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

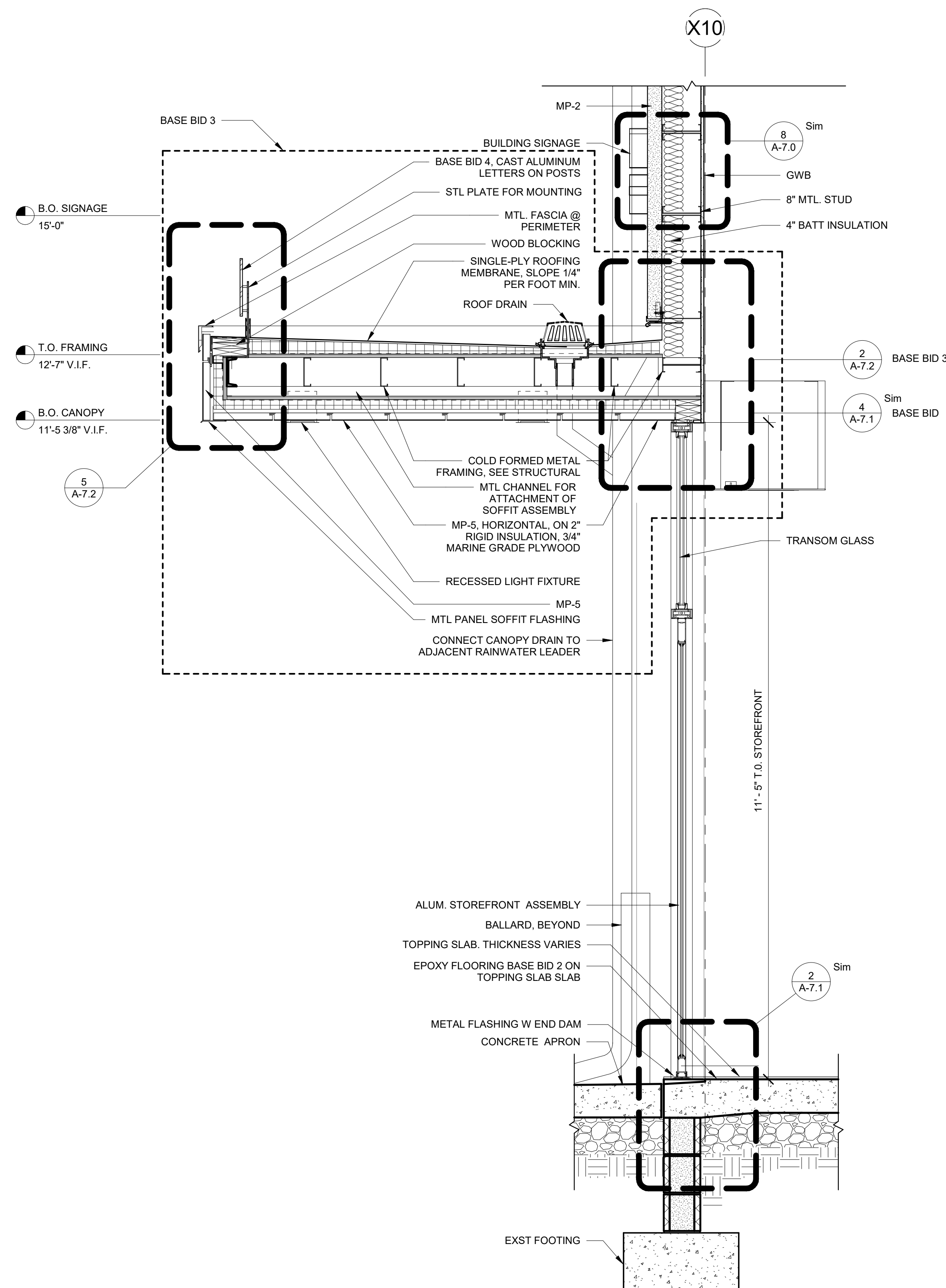
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

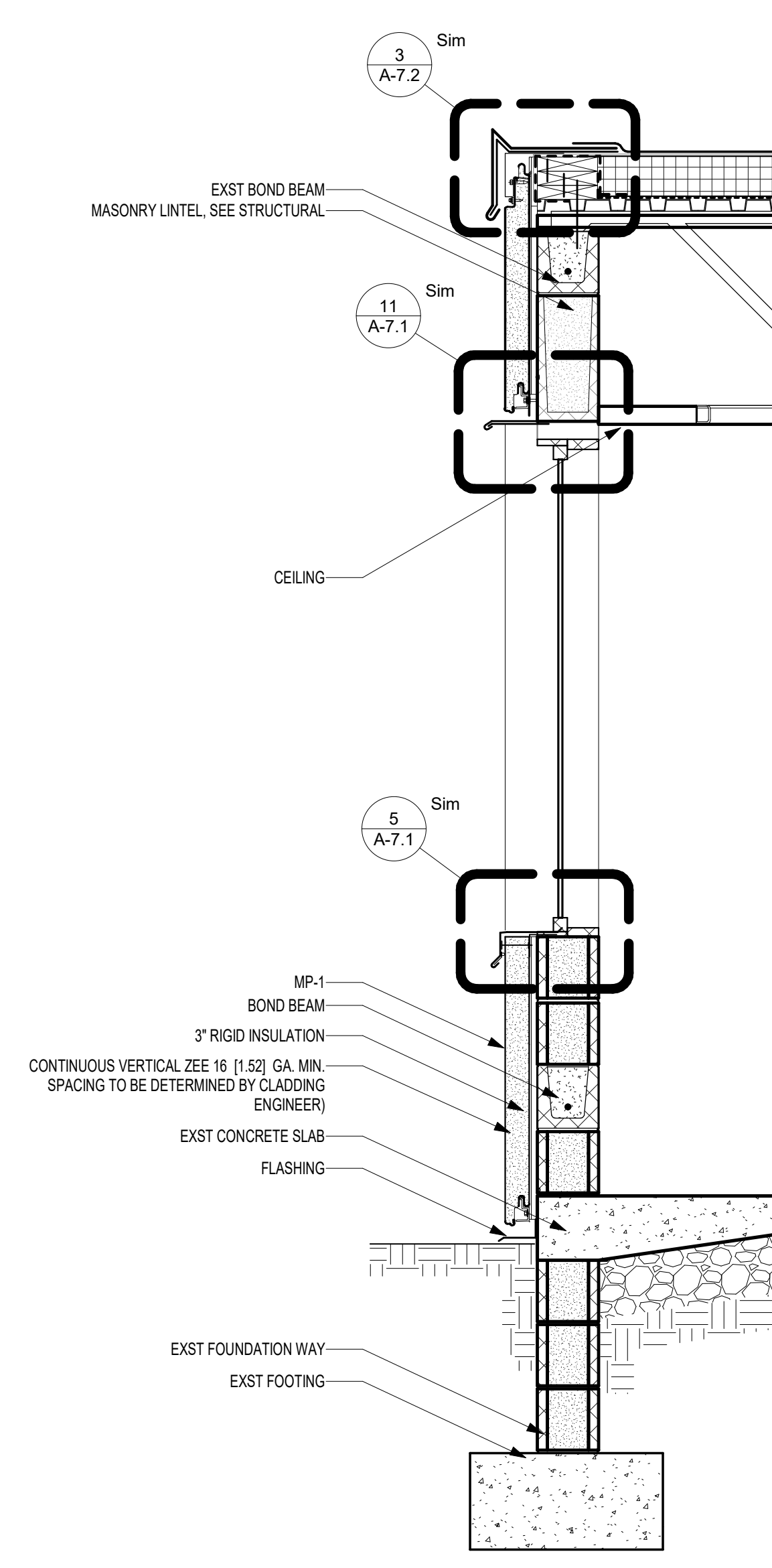
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

BUILDING SECTIONS

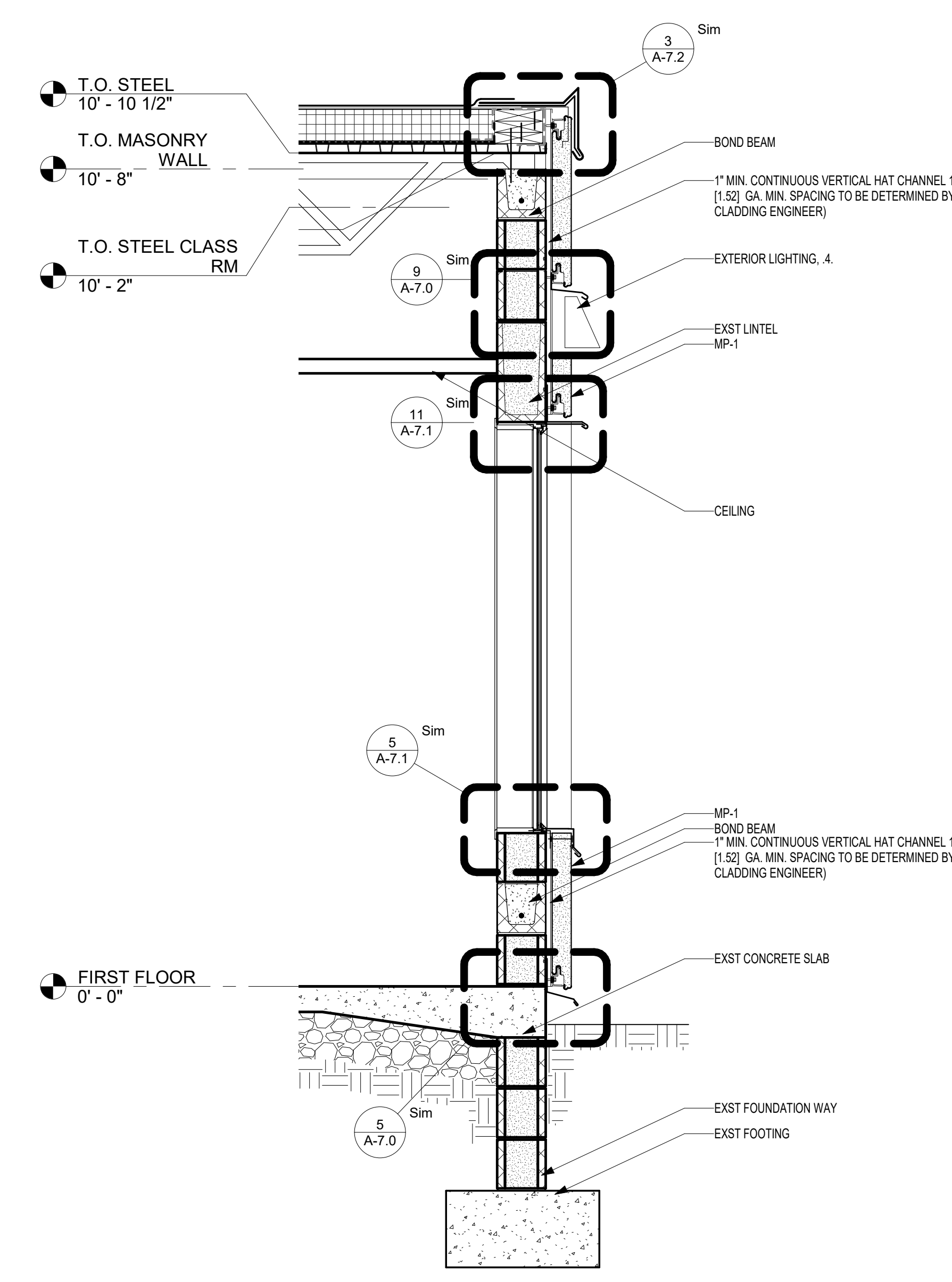
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-3.1
CHECKED BY AK	SCALE 1/8" = 1'-0"	



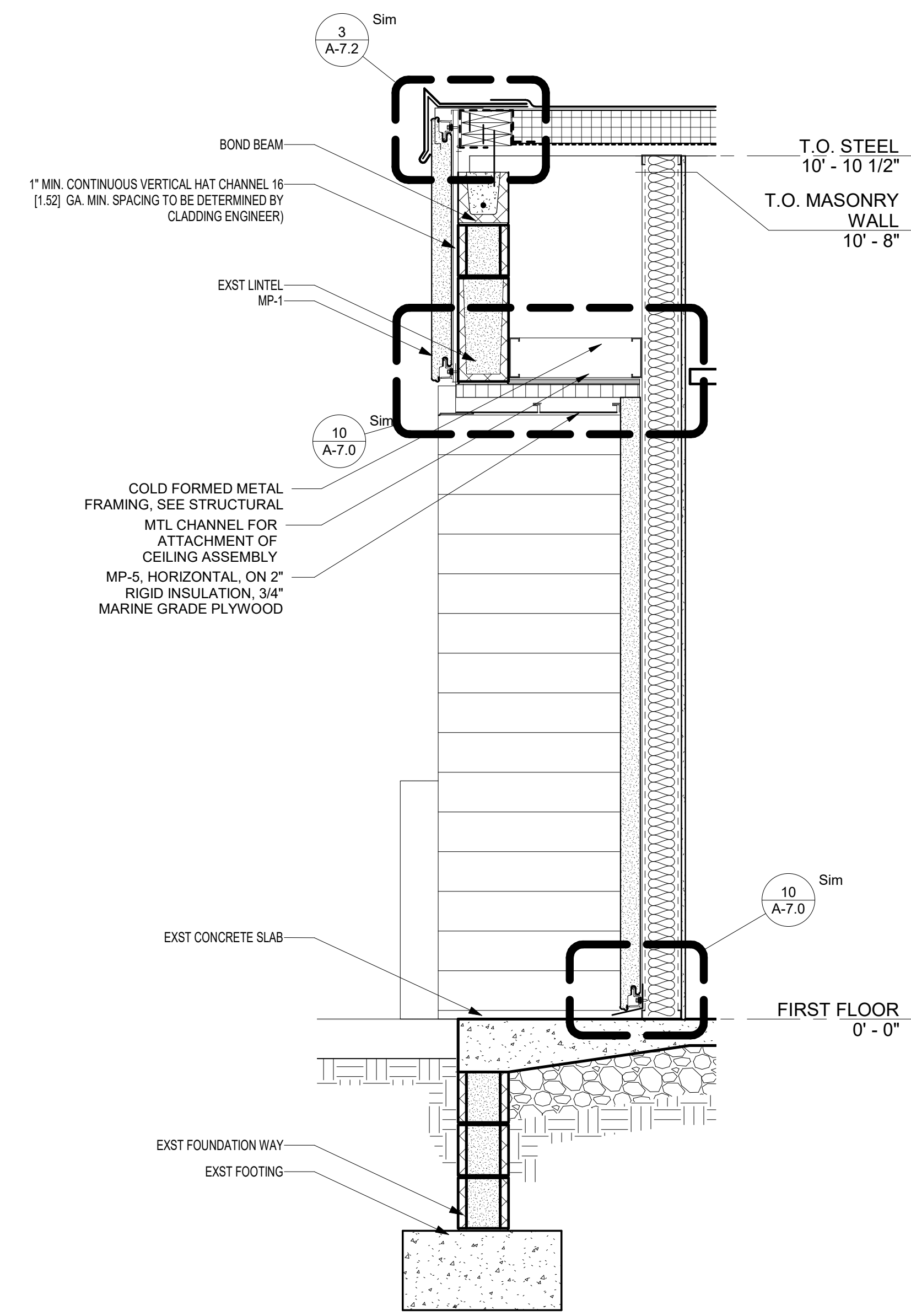
3 WALL SECTION @ CANOPY
3/4" = 1'-0"



2 WALL SECTION @ CLASSROOM
3/4" = 1'-0"



1 WALL SECTION @ MASONRY BLDG.
3/4" = 1'-0"



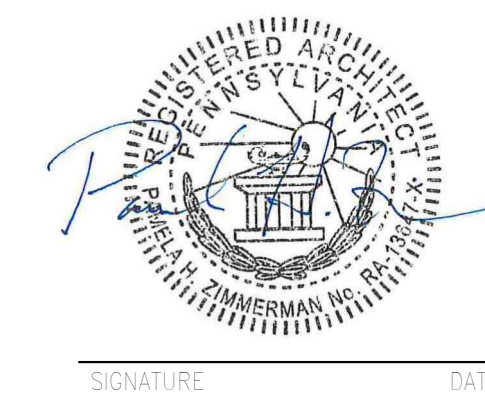
4 WALL SECTION @ MASONRY BLDG.
STORAGE
3/4" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/28/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 10/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document- August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

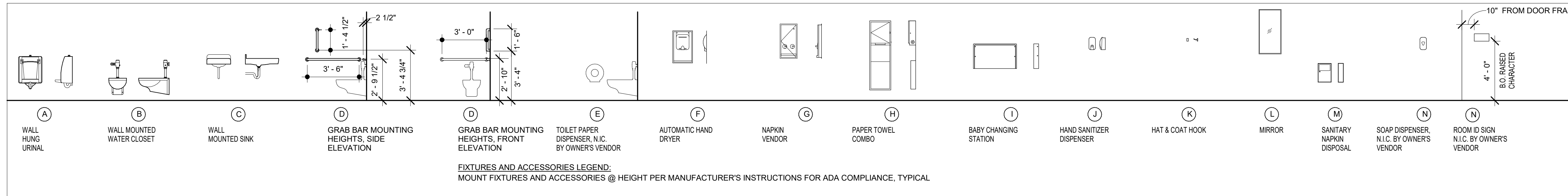
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

WALL SECTIONS

DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-4.1
CHECKED BY AK	SCALE 3/4" = 1'-0"	



TAG	ITEM	SIZE			LOCATION
		W	H	D	
TA-01	GRAB BAR HORIZONTAL	2 11/16"	1 1/2"	36", 42"	HANDICAP STALLS REF. MOUNTING HEIGHT SCHEDULE
TA-02	TOILET PAPER DISPENSER				
TA-03	PAPER TOWEL DISPENSER				
TA-04	LIQUID SOAP DISPENSER				
TA-05	MIRROR UNIT	18"	30"		
TA-06	SANITARY NAPKIN DISPOSAL				
TA-07	SHOWER ROD				
TA-08	FOLDING SHOWER SEAT				
TA-09	HOCK				



BID SET 08/26/2024	DESIGN DEVELOPMENT 01/28/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024

ZIMMERMAN STUDIO INC.
ARCHITECTURE + PROJECT MANAGEMENT

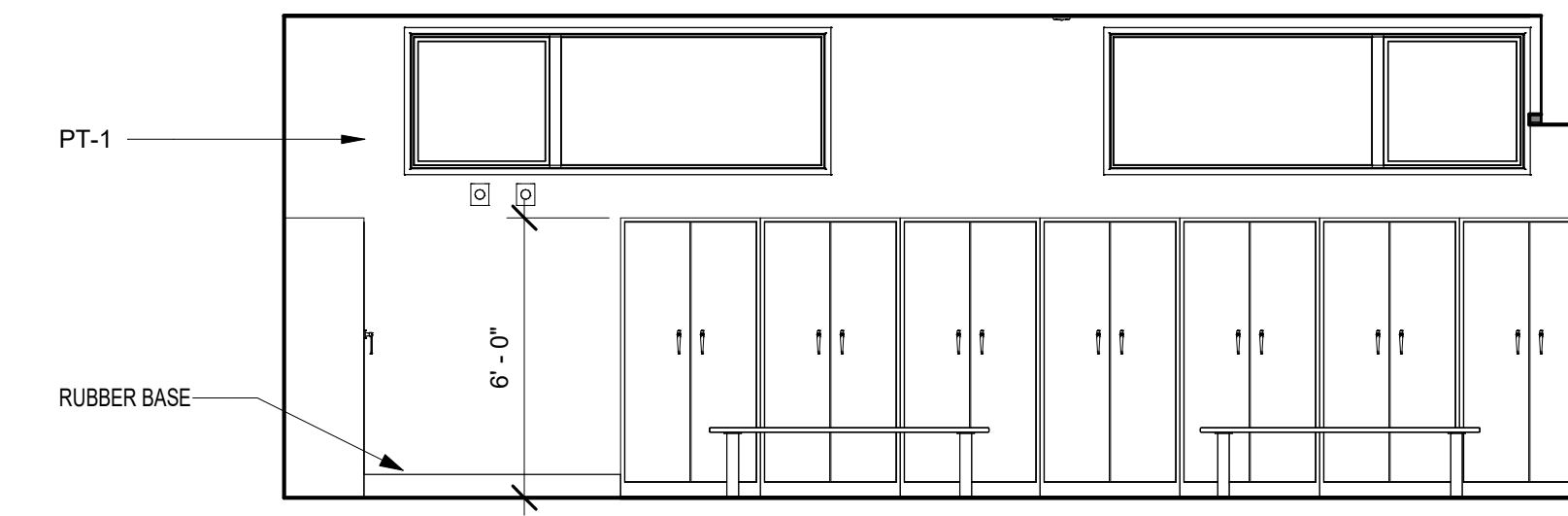
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
INTERIOR ELEVATIONS MASONRY
BUILDING

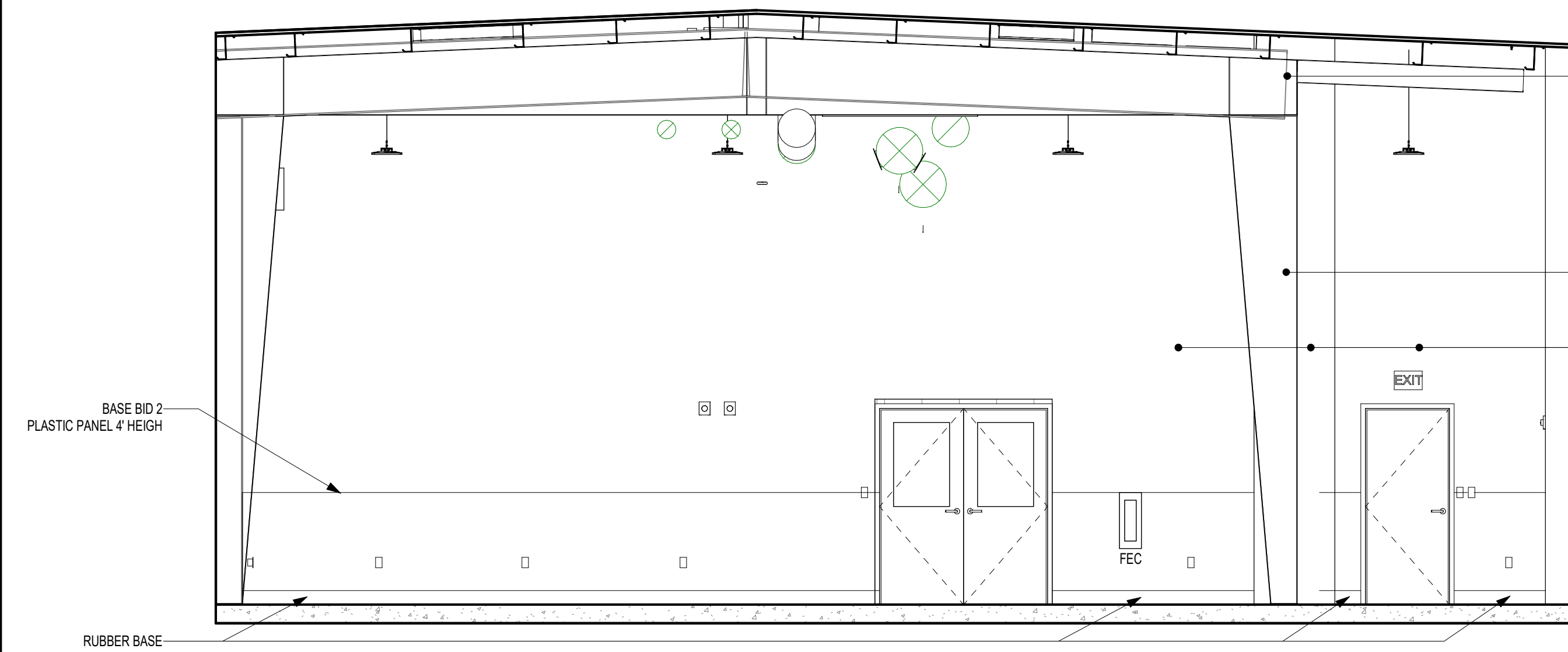
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

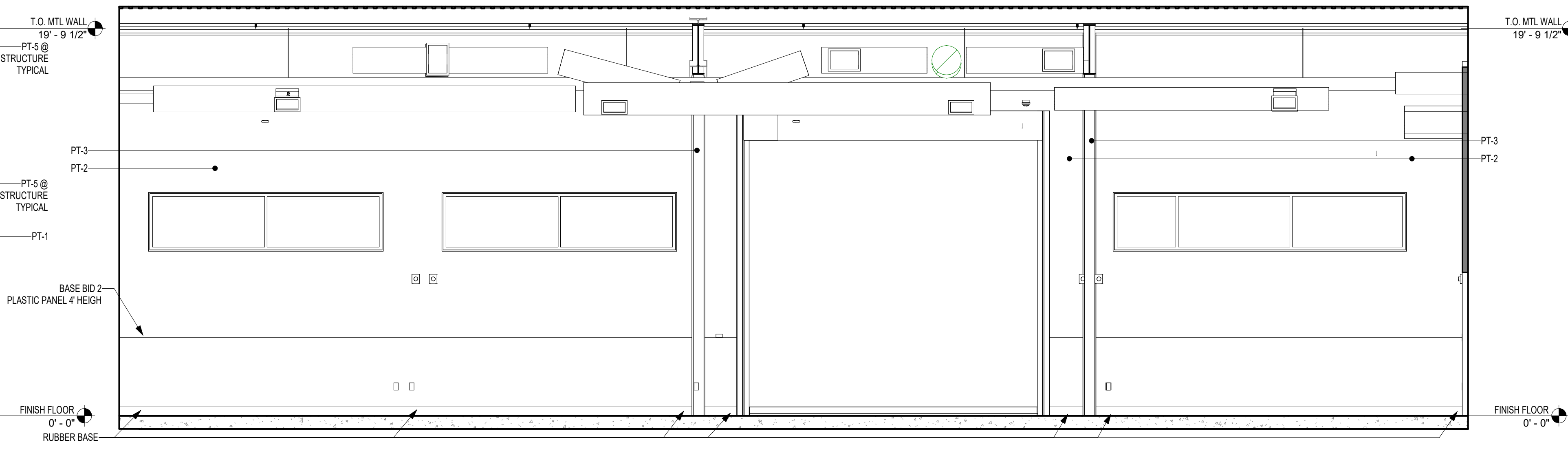
DRAWN BY: IB DATE: 08/26/2024 DRAWING No.: A-5.0
CHECKED BY: AK SCALE: 1/4" = 1'-0"



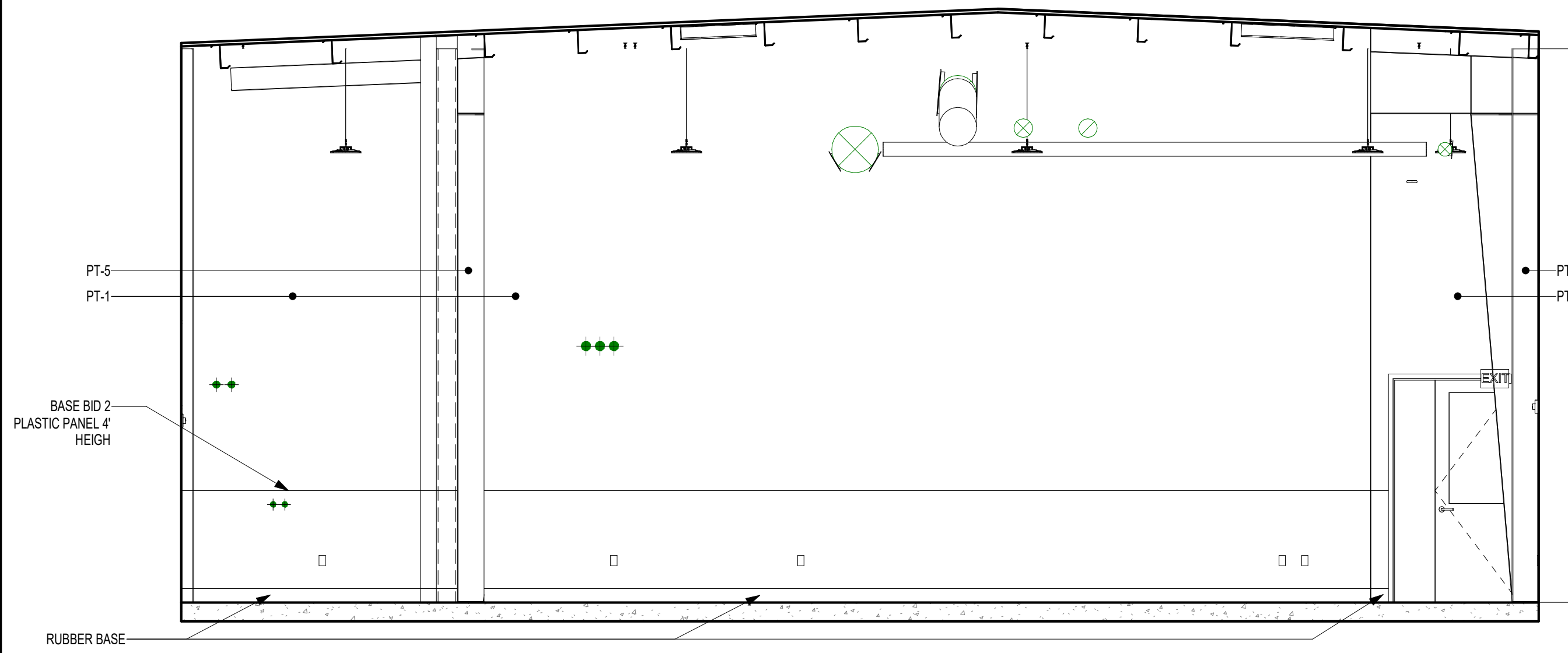
9 Locker Room South Elevation
1/4" = 1'-0"



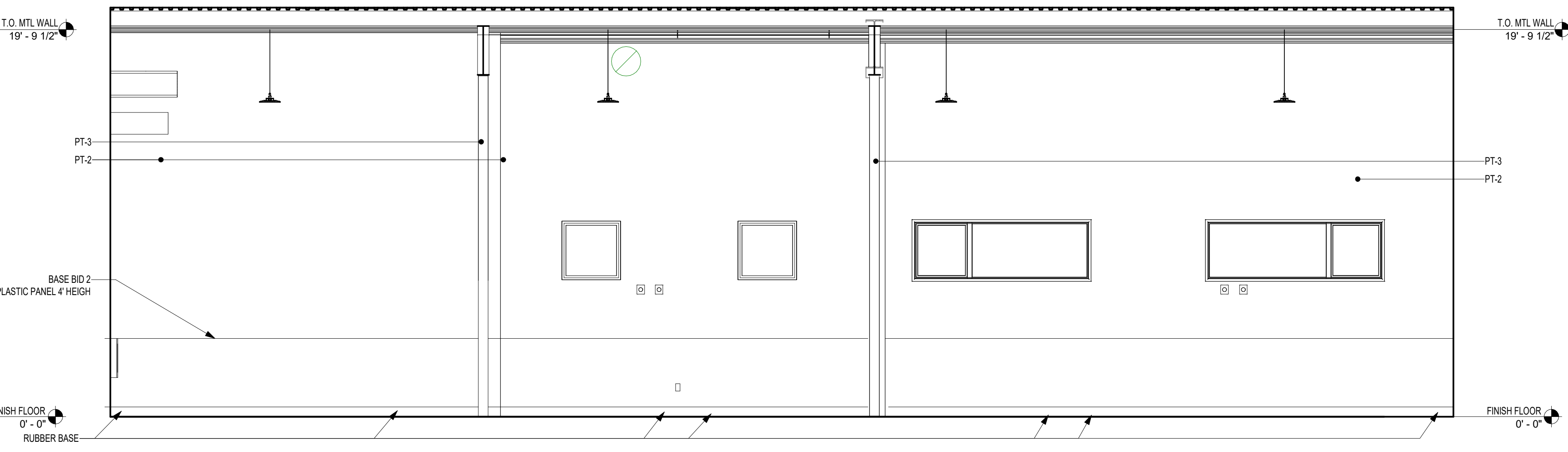
8 Multipurpose Room East Elevation
1/4" = 1'-0"



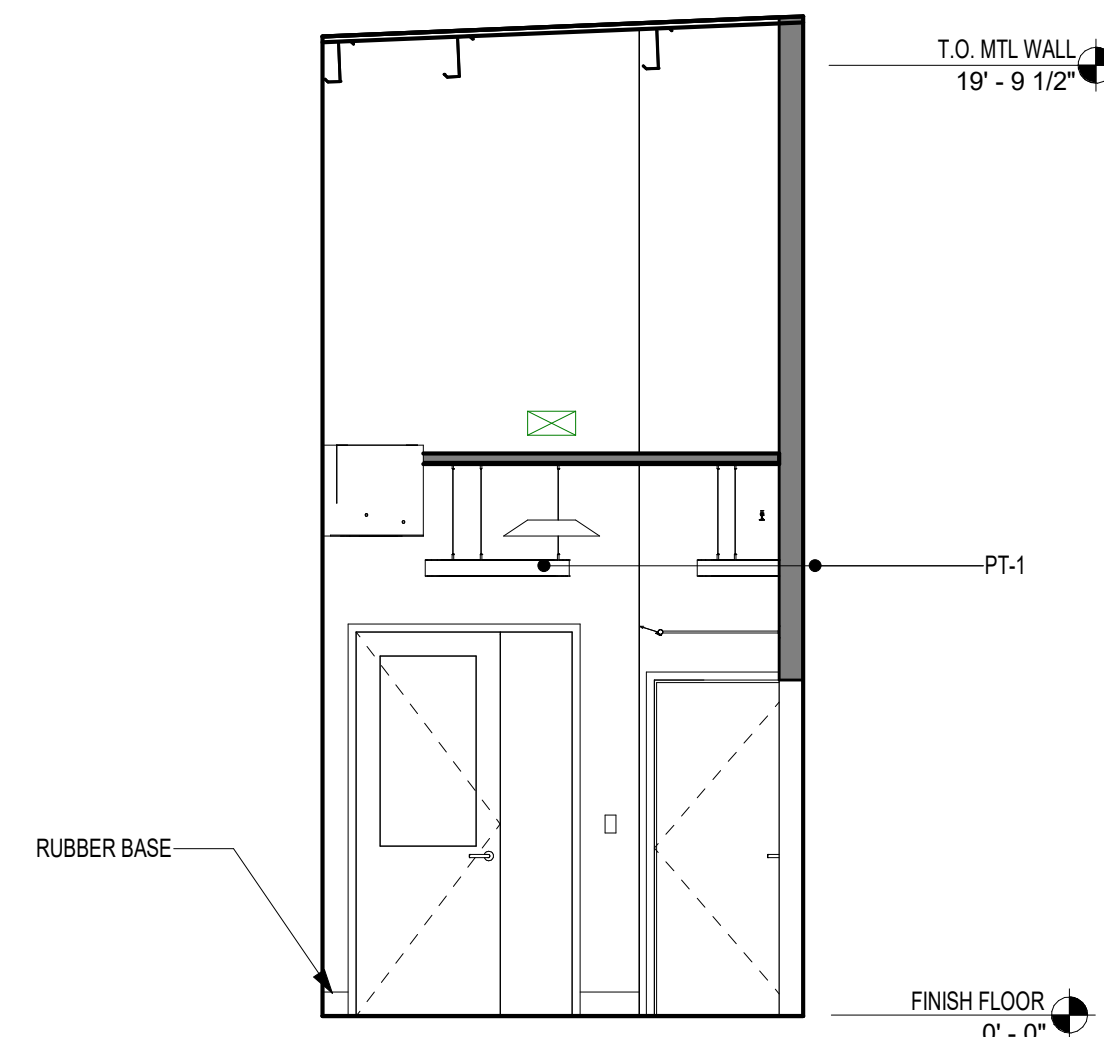
7 Multipurpose Room North Elevation
1/4" = 1'-0"



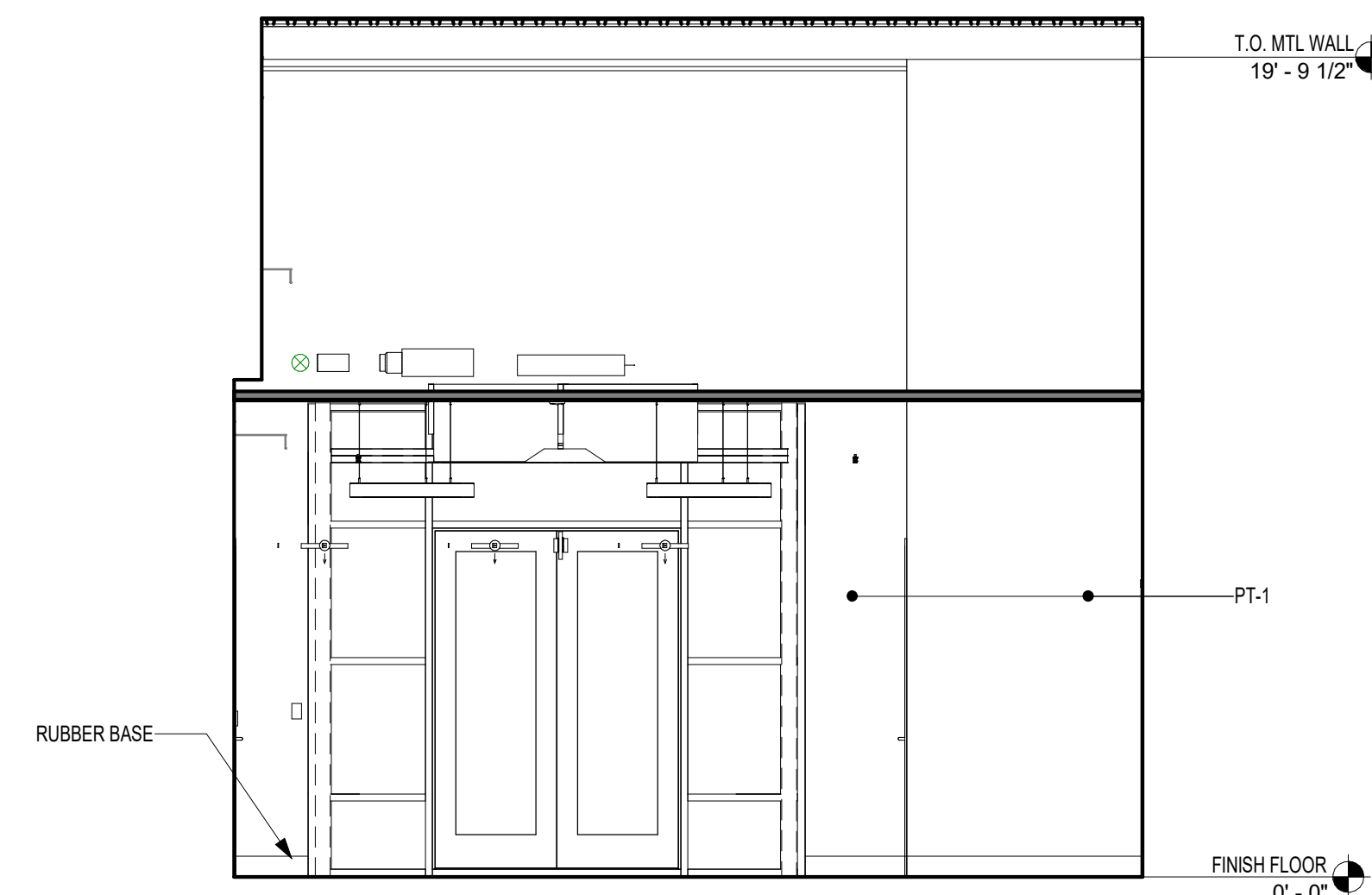
6 Multipurpose Room West Elevation
1/4" = 1'-0"



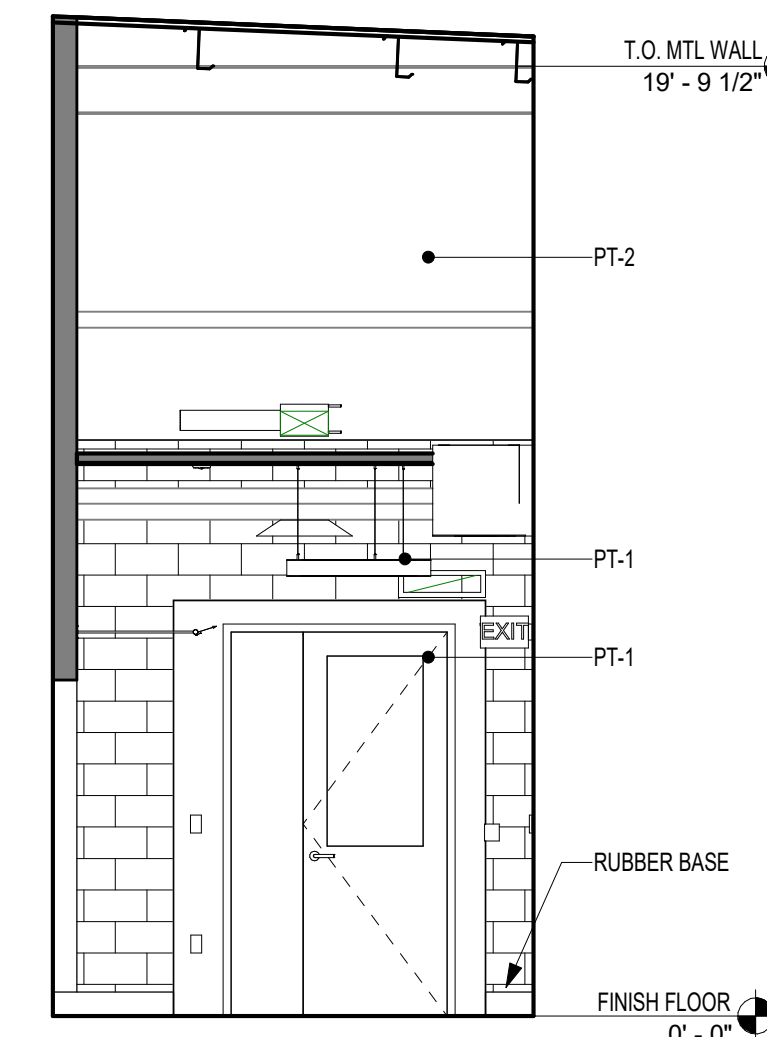
5 Multipurpose Room South Elevation
1/4" = 1'-0"



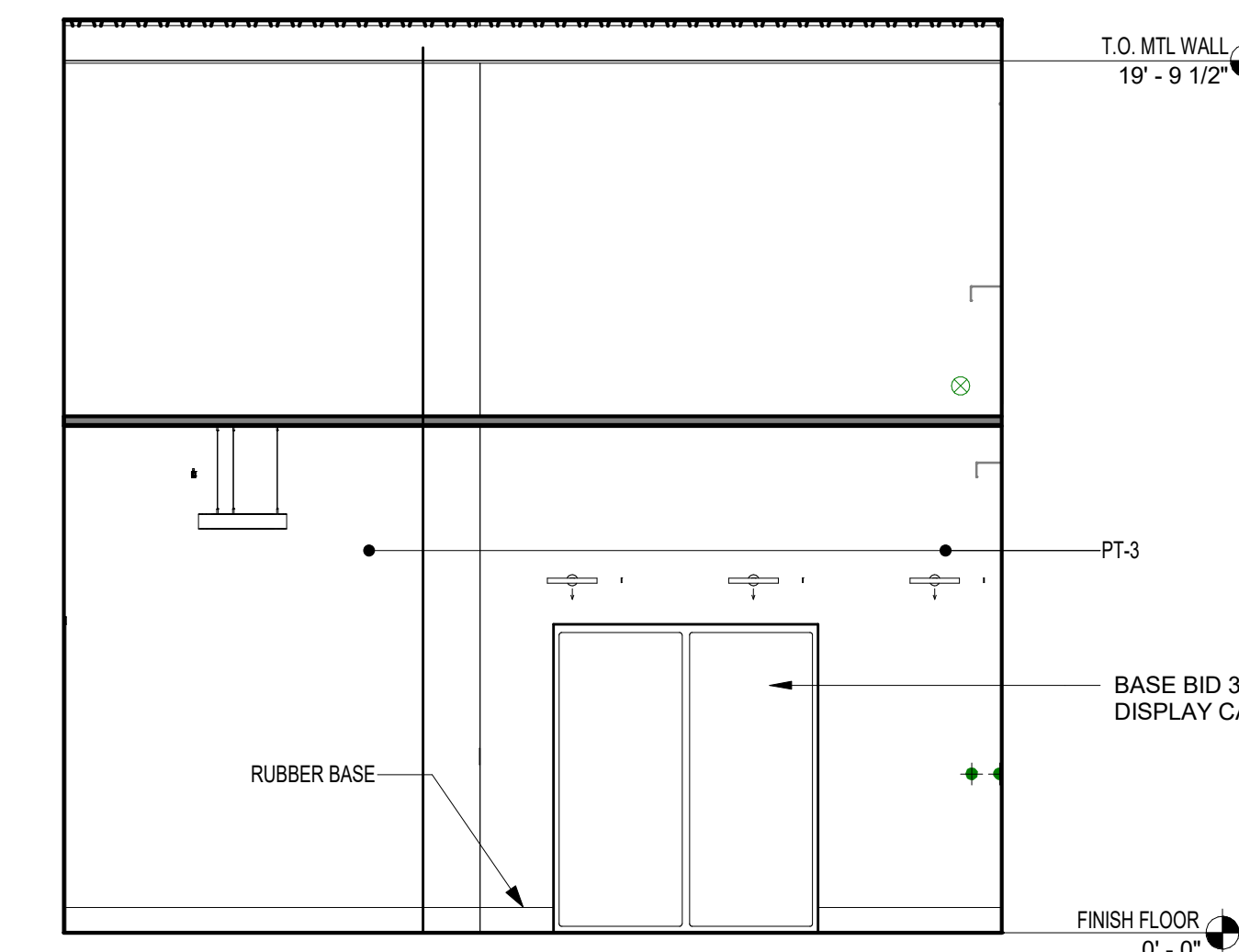
4 Entry Vestibule East Elevation
1/4" = 1'-0"



3 Entry Vestibule North Elevation
1/4" = 1'-0"



2 Entry Vestibule West Elevation
1/4" = 1'-0"



1 Entry Vestibule South Elevation
1/4" = 1'-0"

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

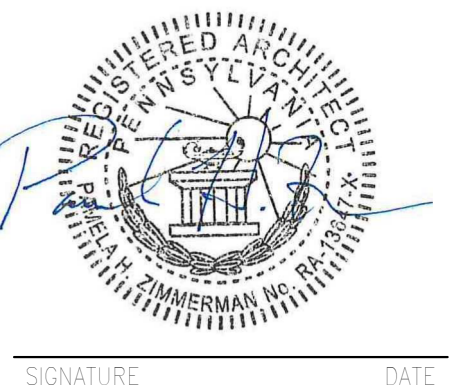
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/24/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD- REVISIONS
Construction Document- August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

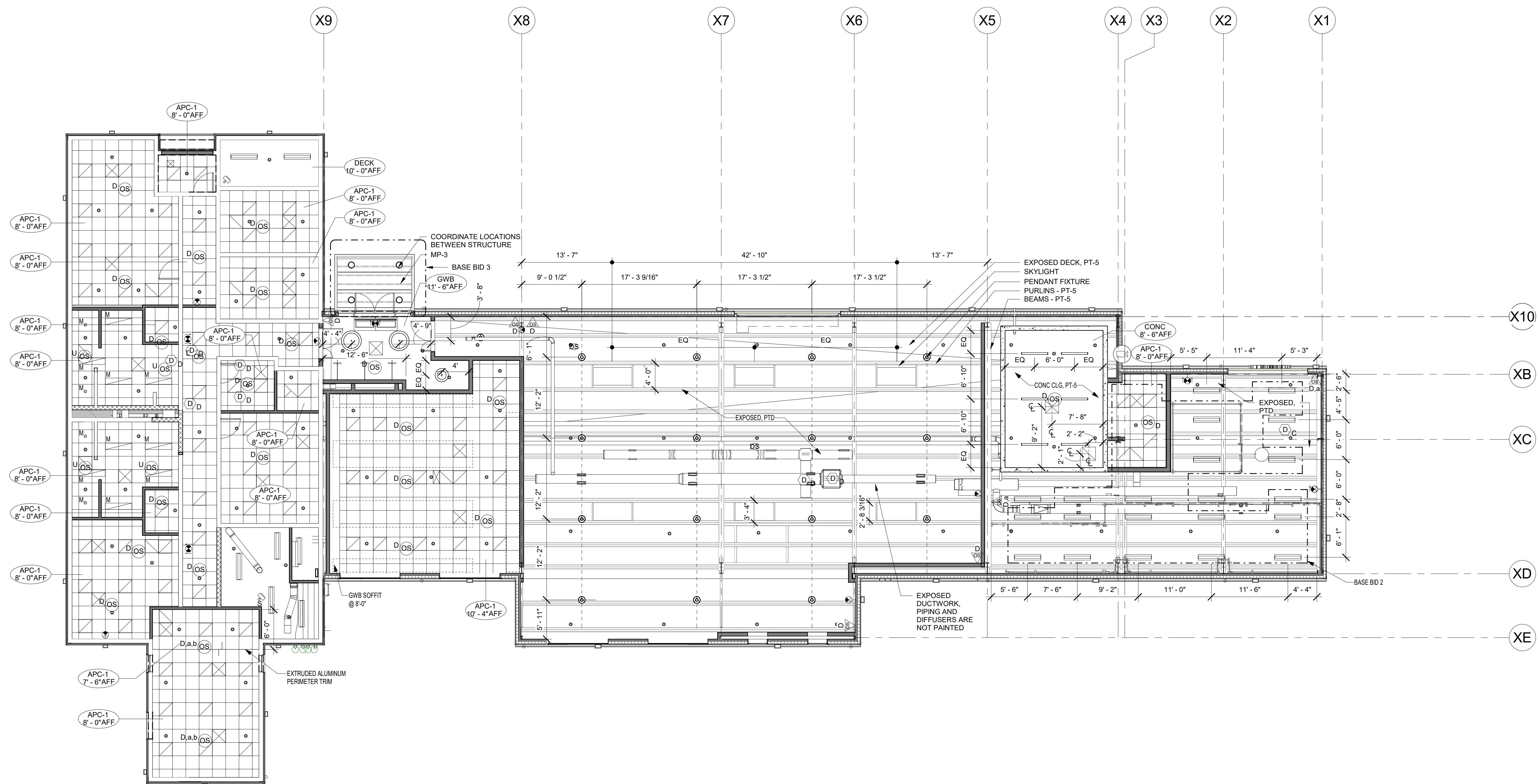
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

INTERIOR ELEVATIONS
PREMANUFACTURED BUILDING

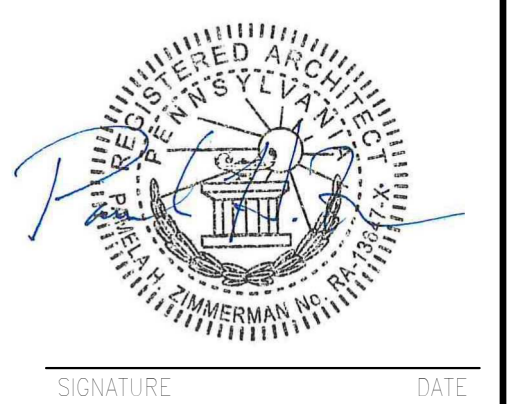
DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-5.1
CHECKED BY AK	SCALE 1/4" = 1'-0"	



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

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

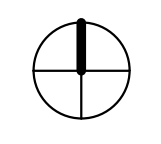
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
REFLECTED CEILING PLANS

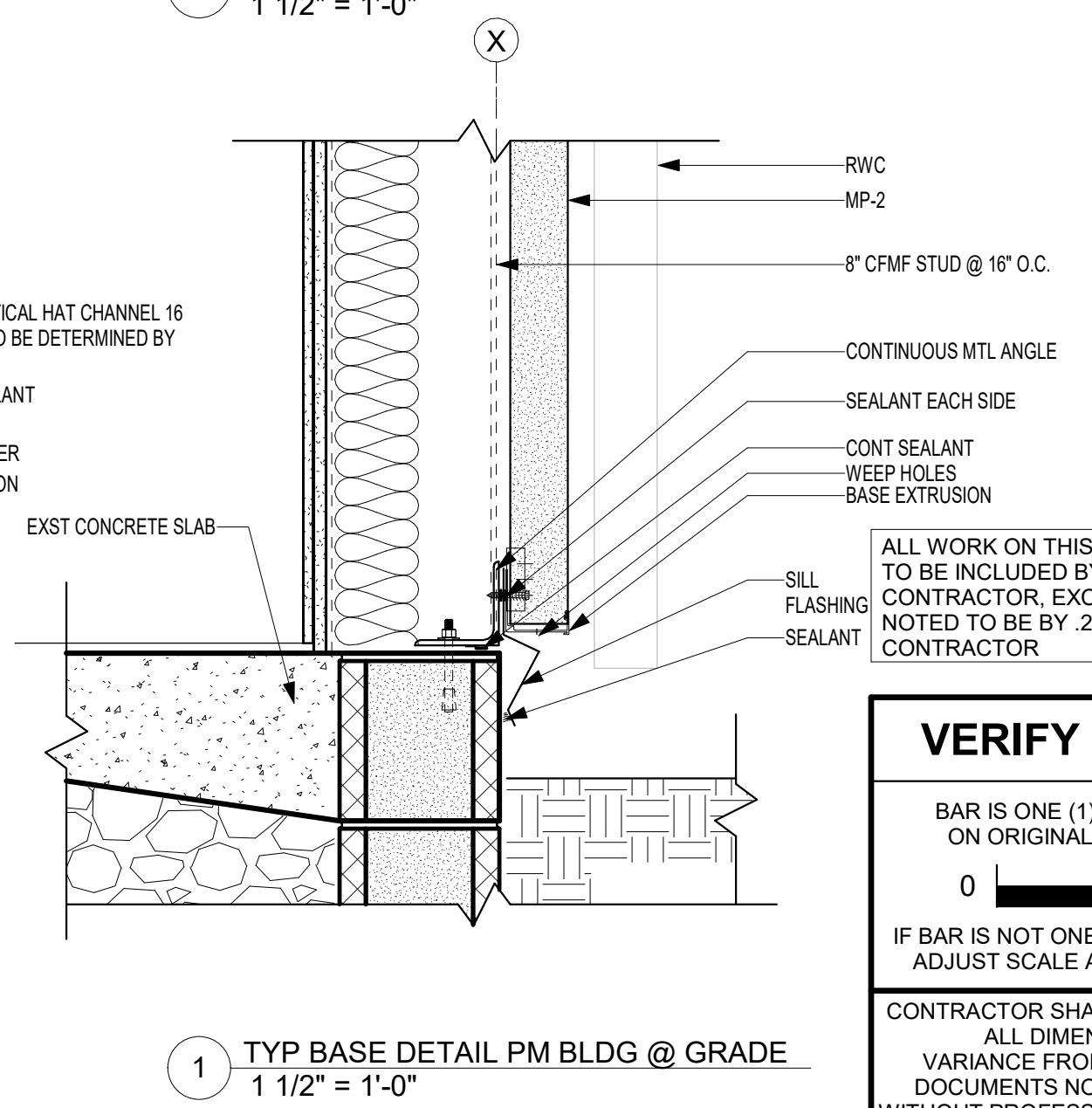
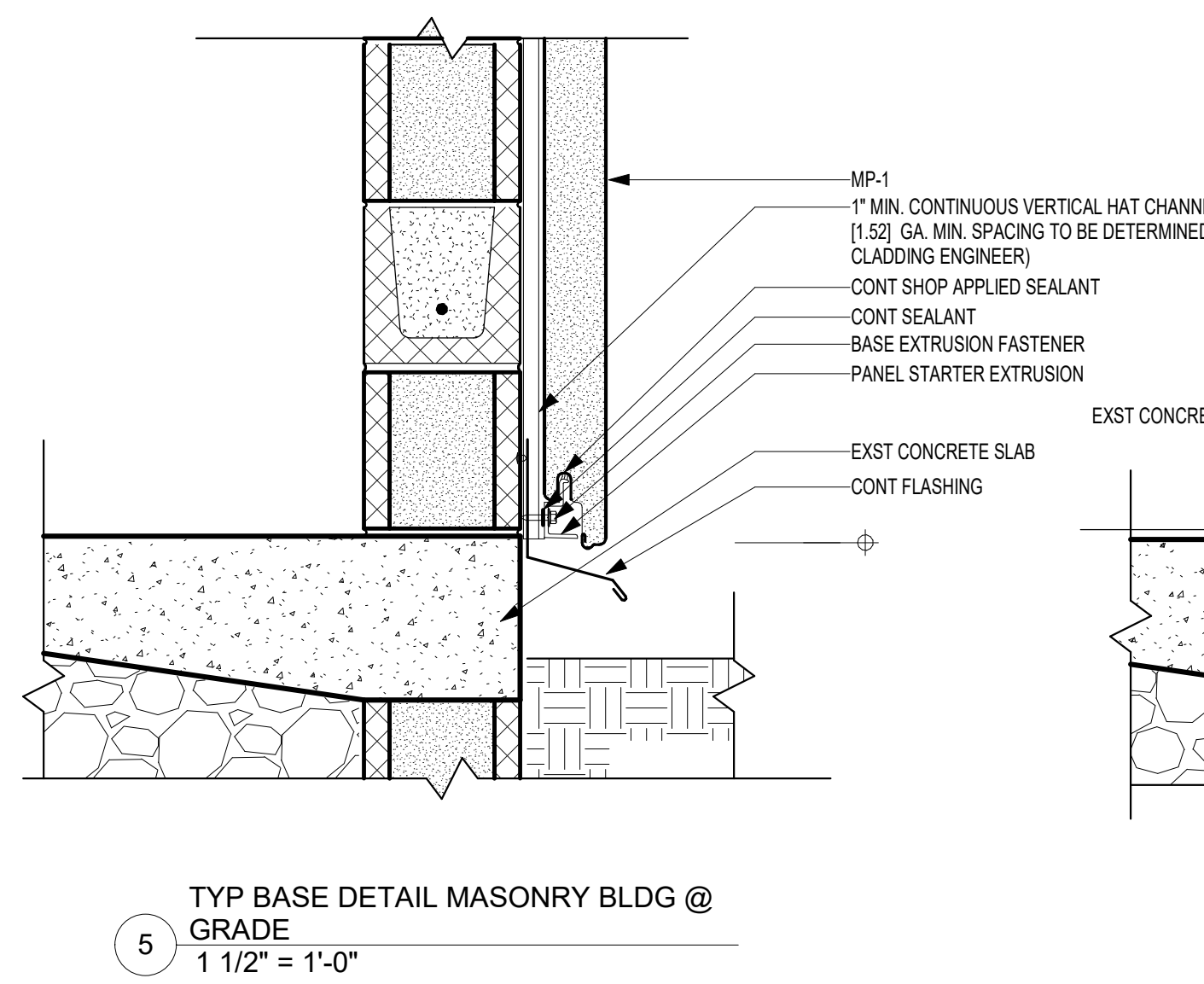
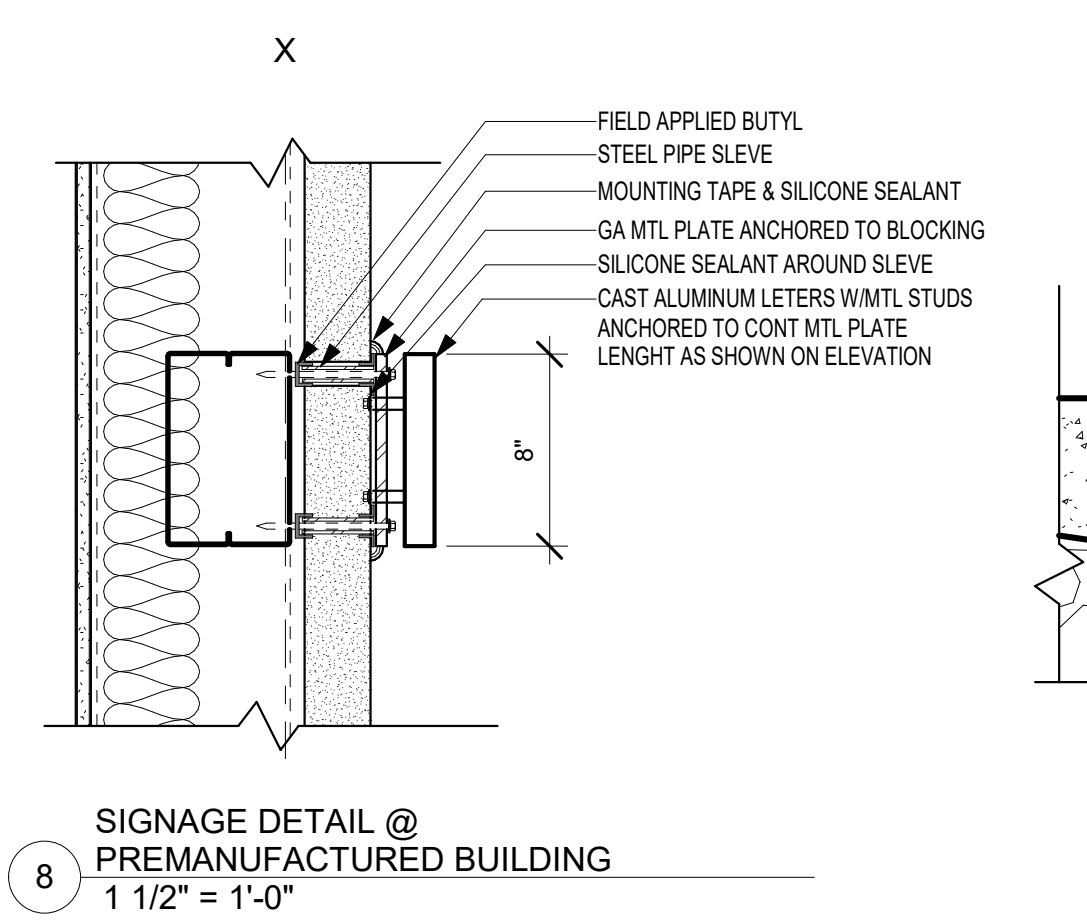
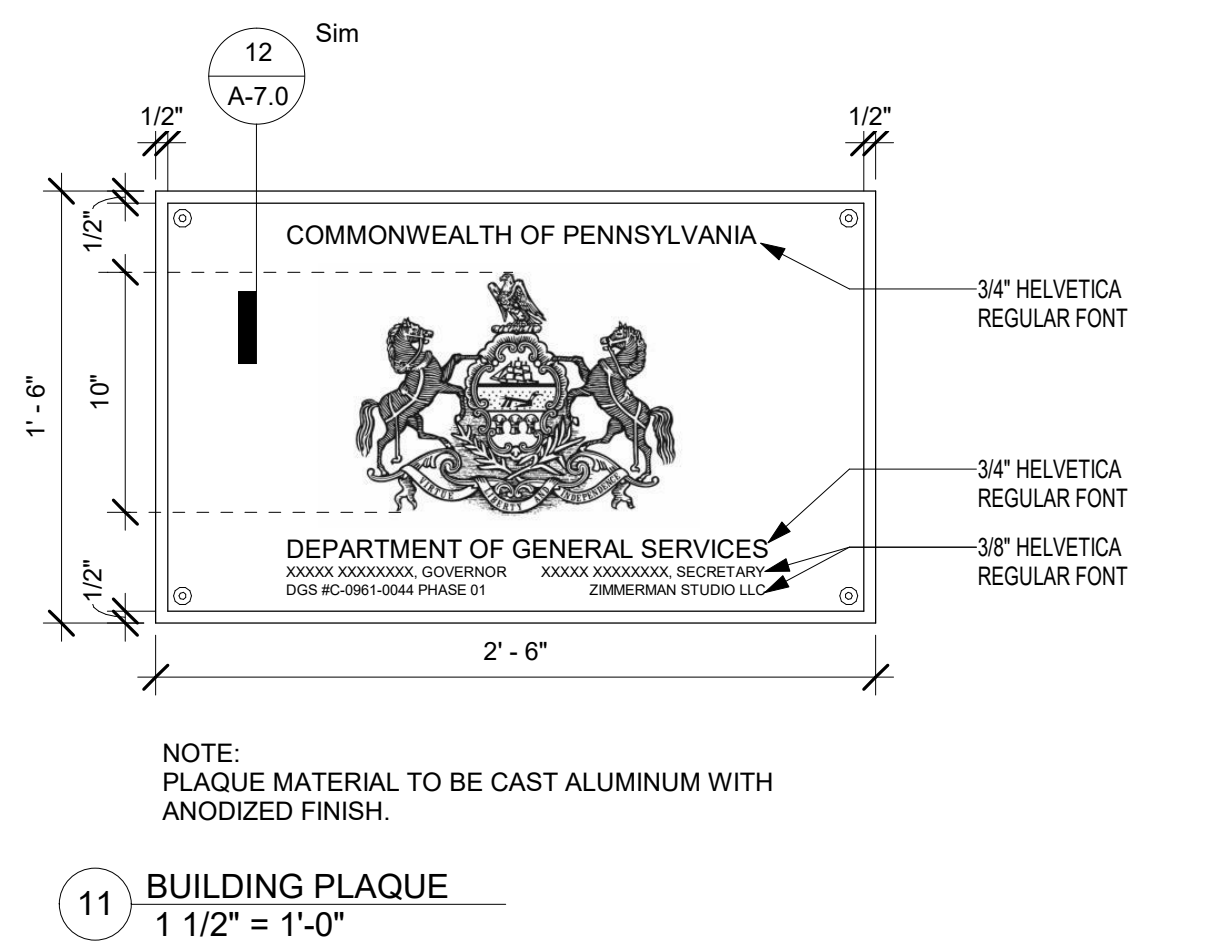
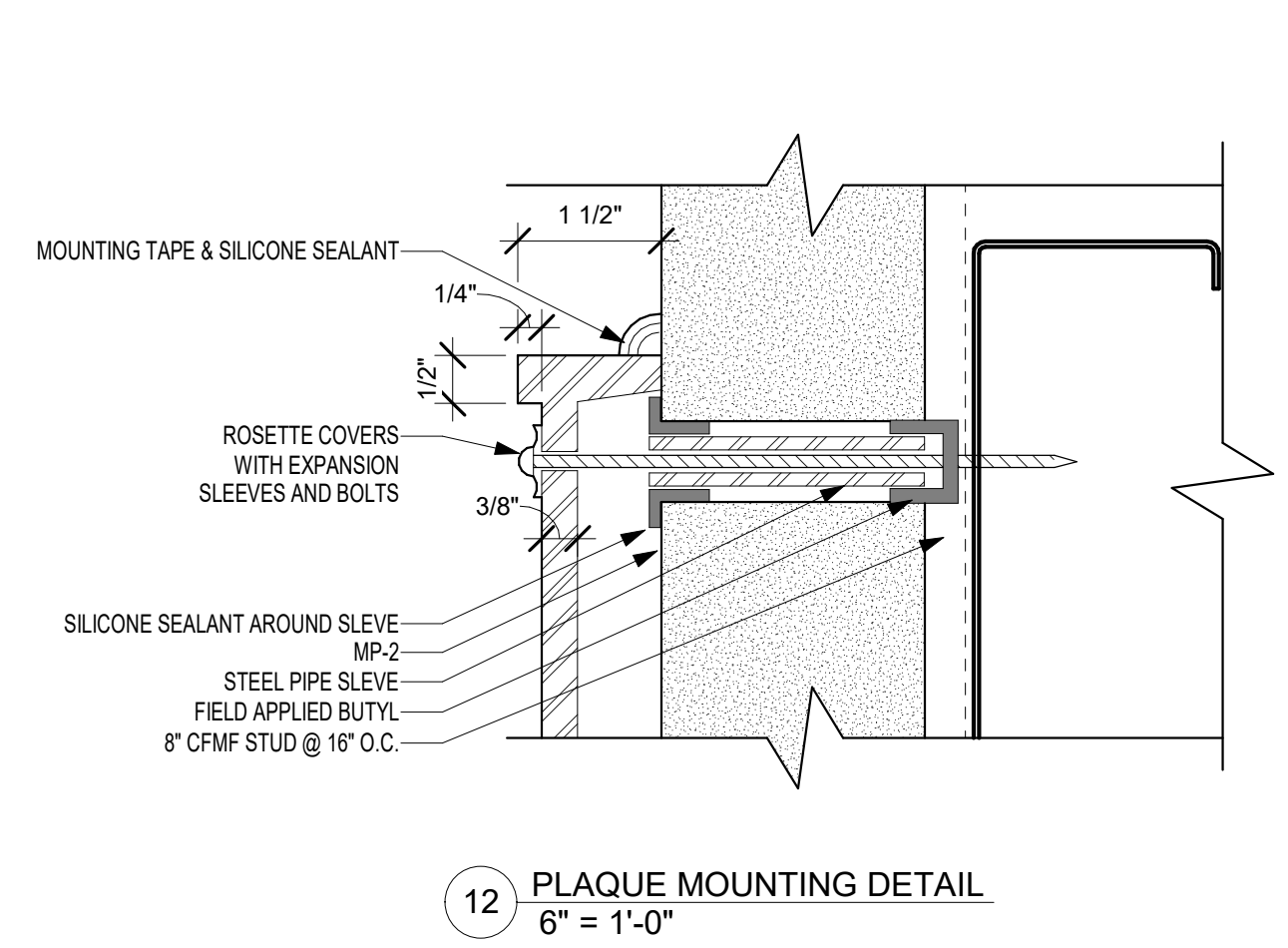
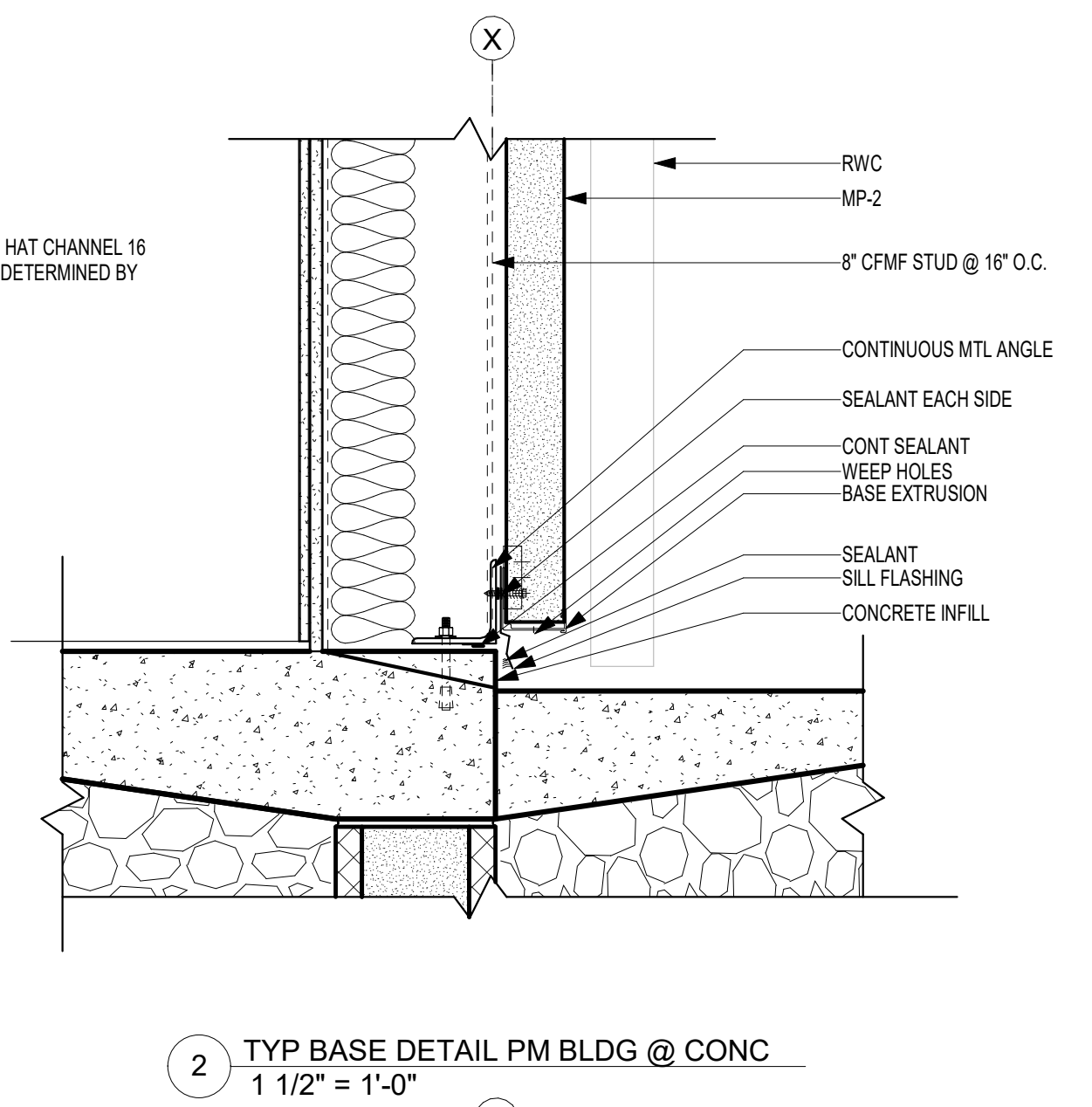
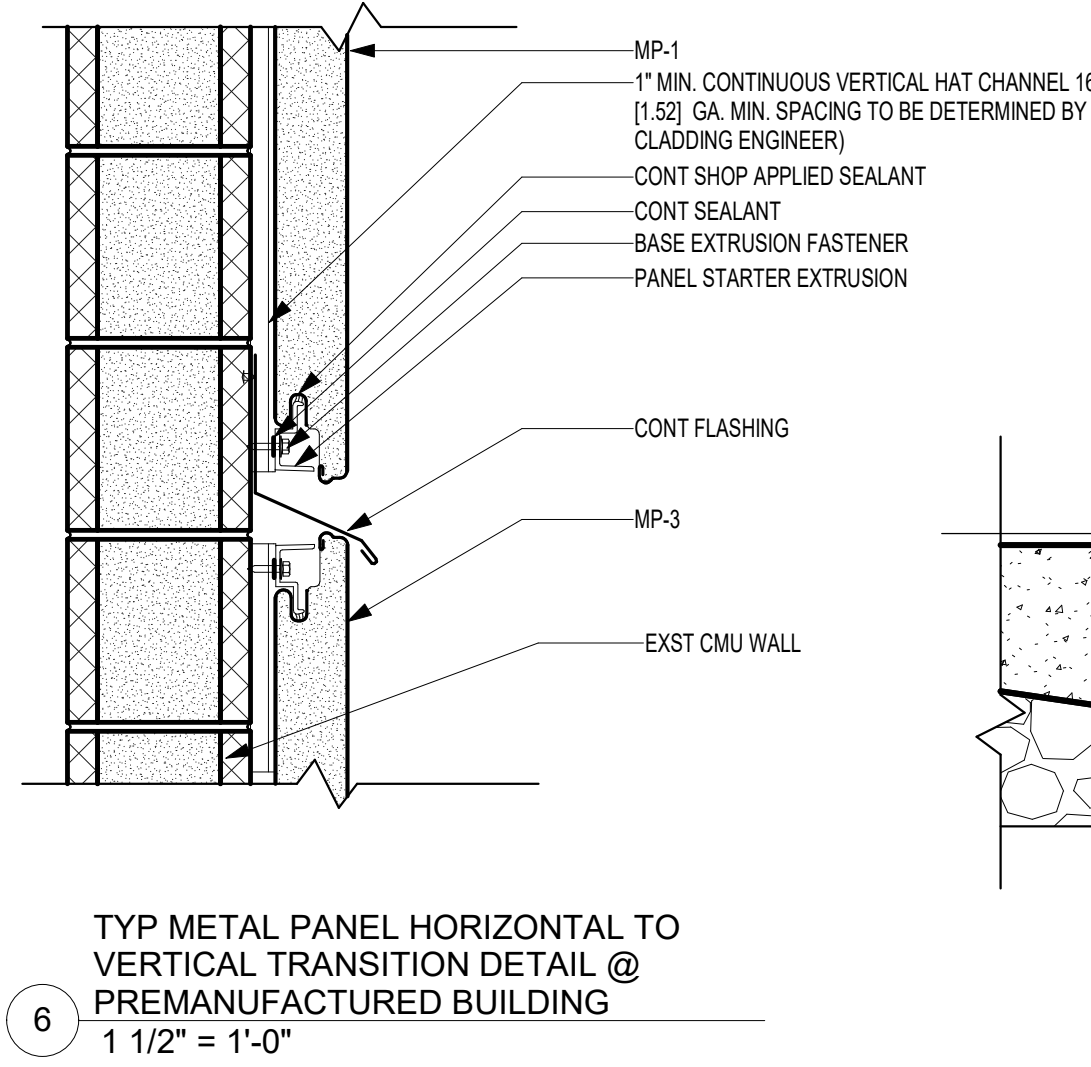
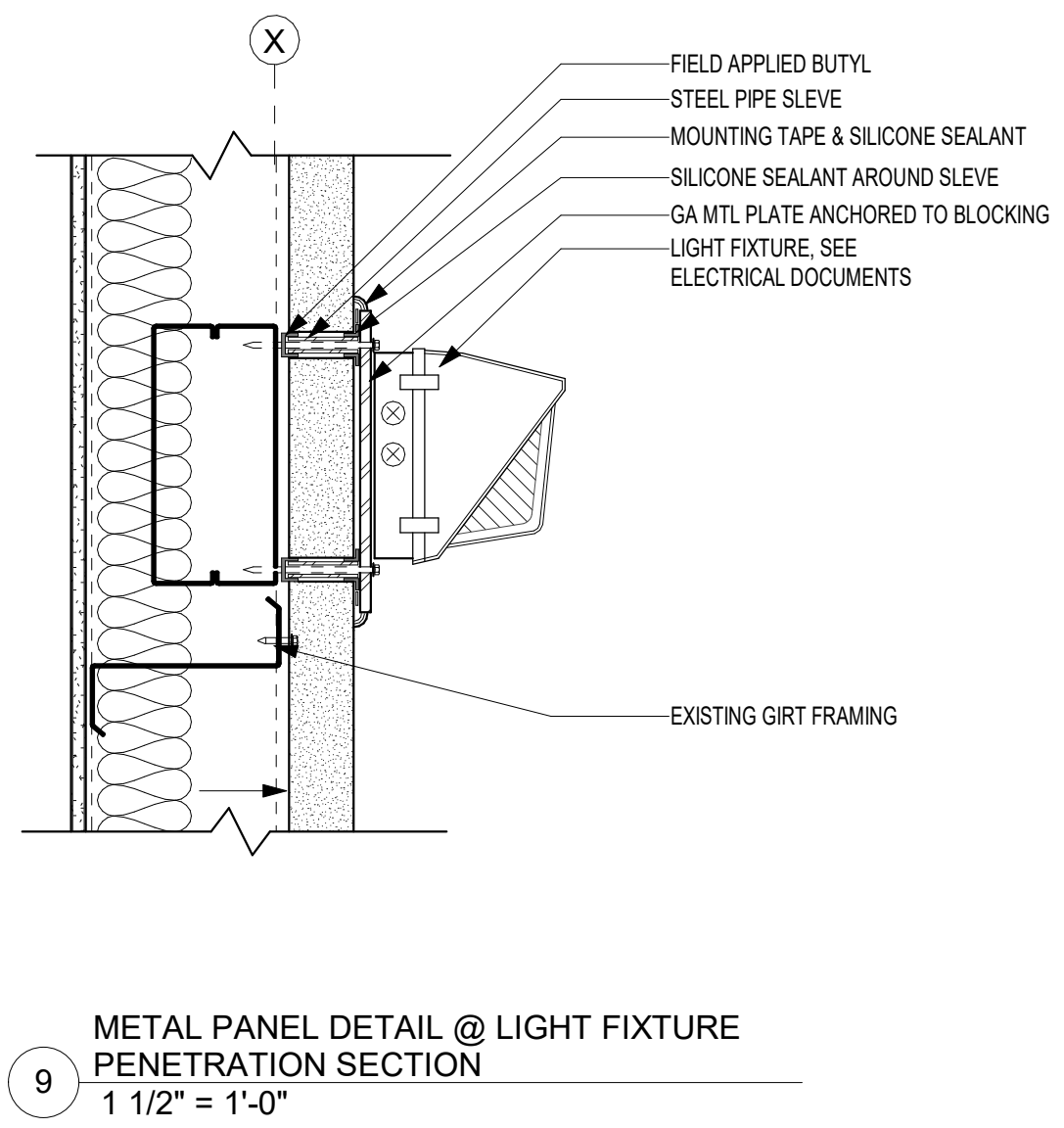
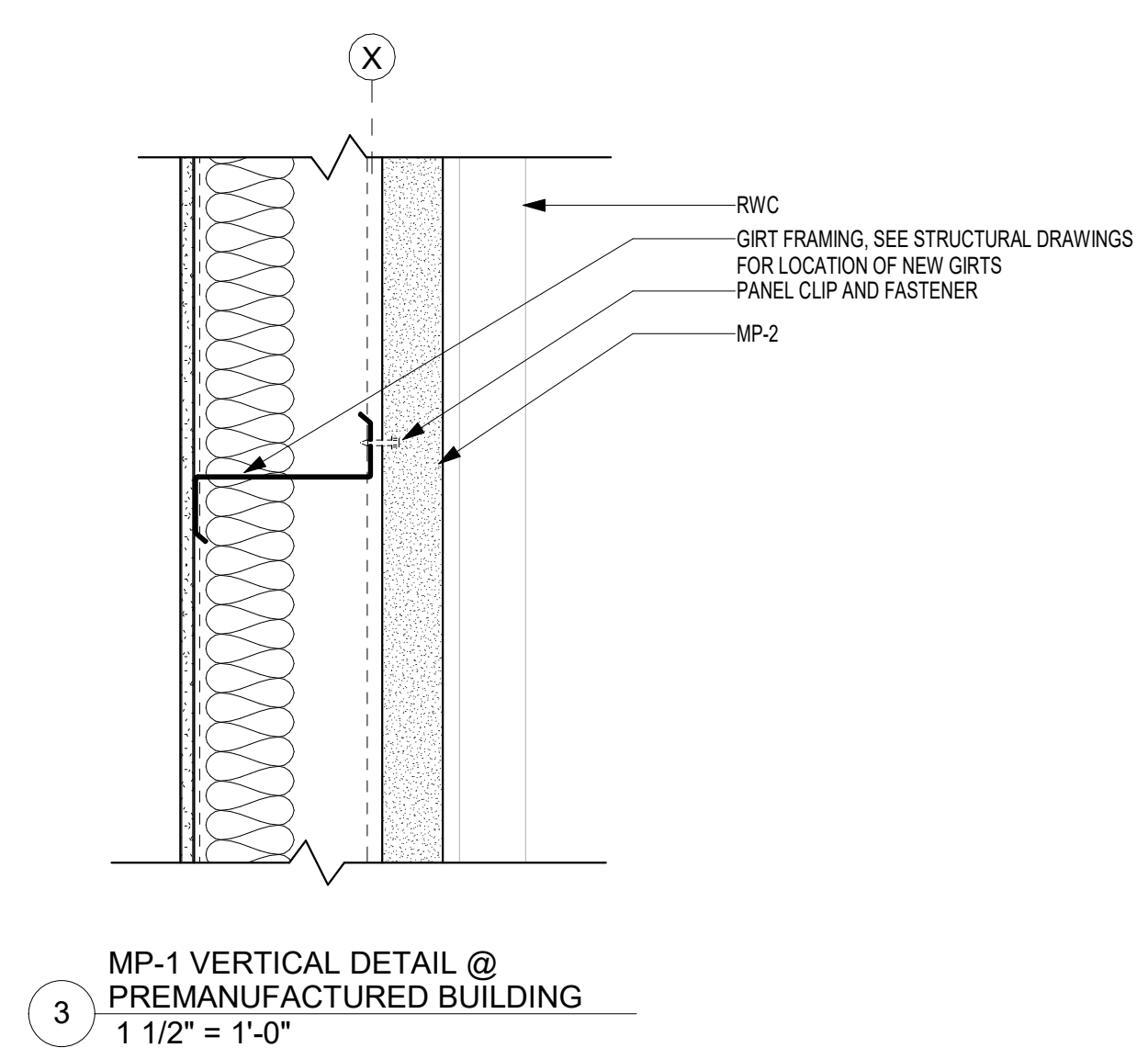
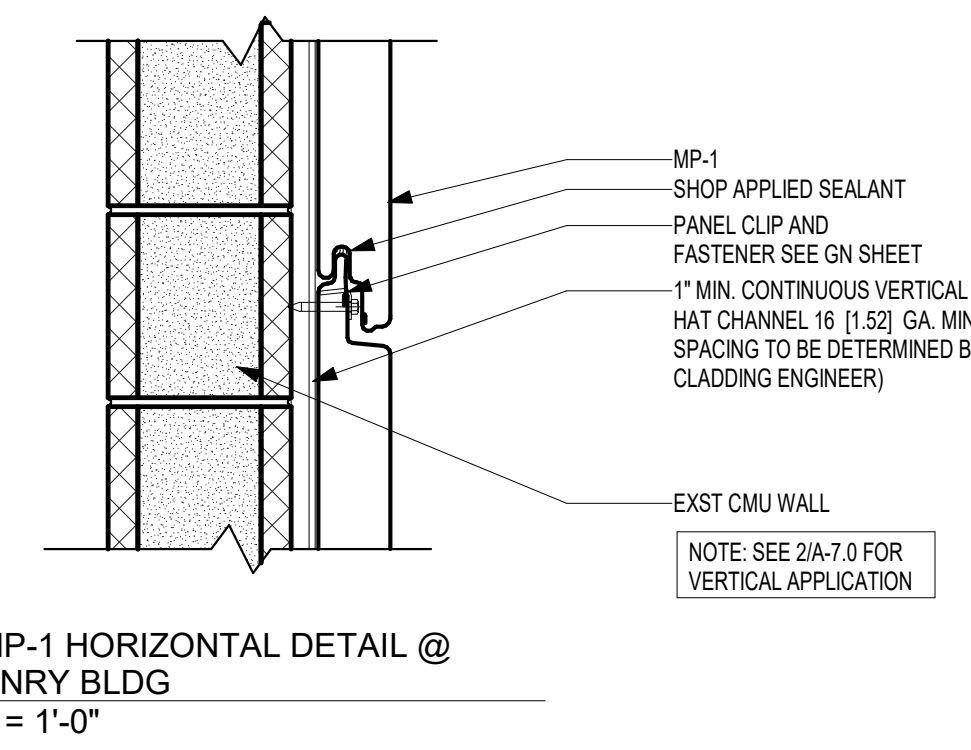
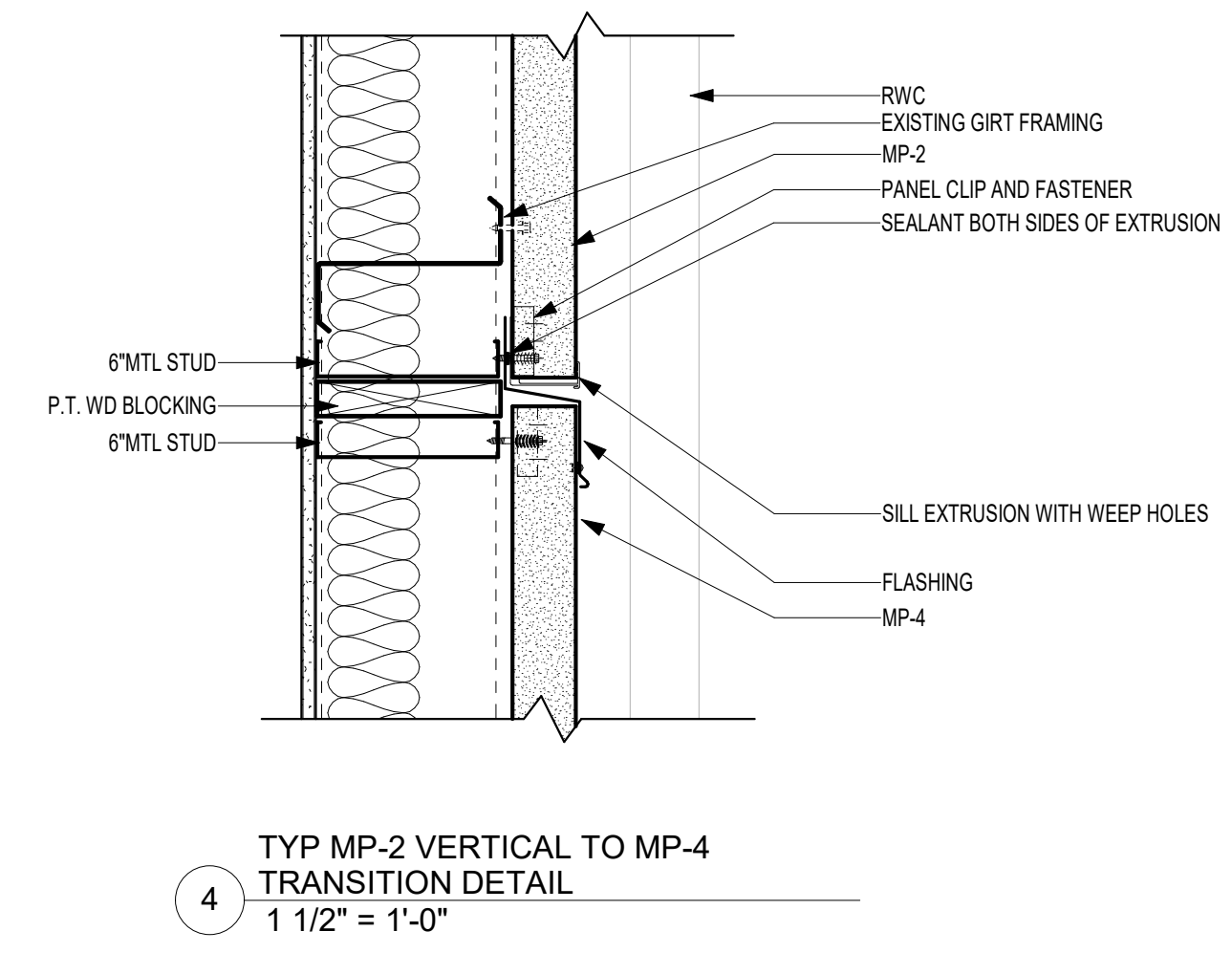
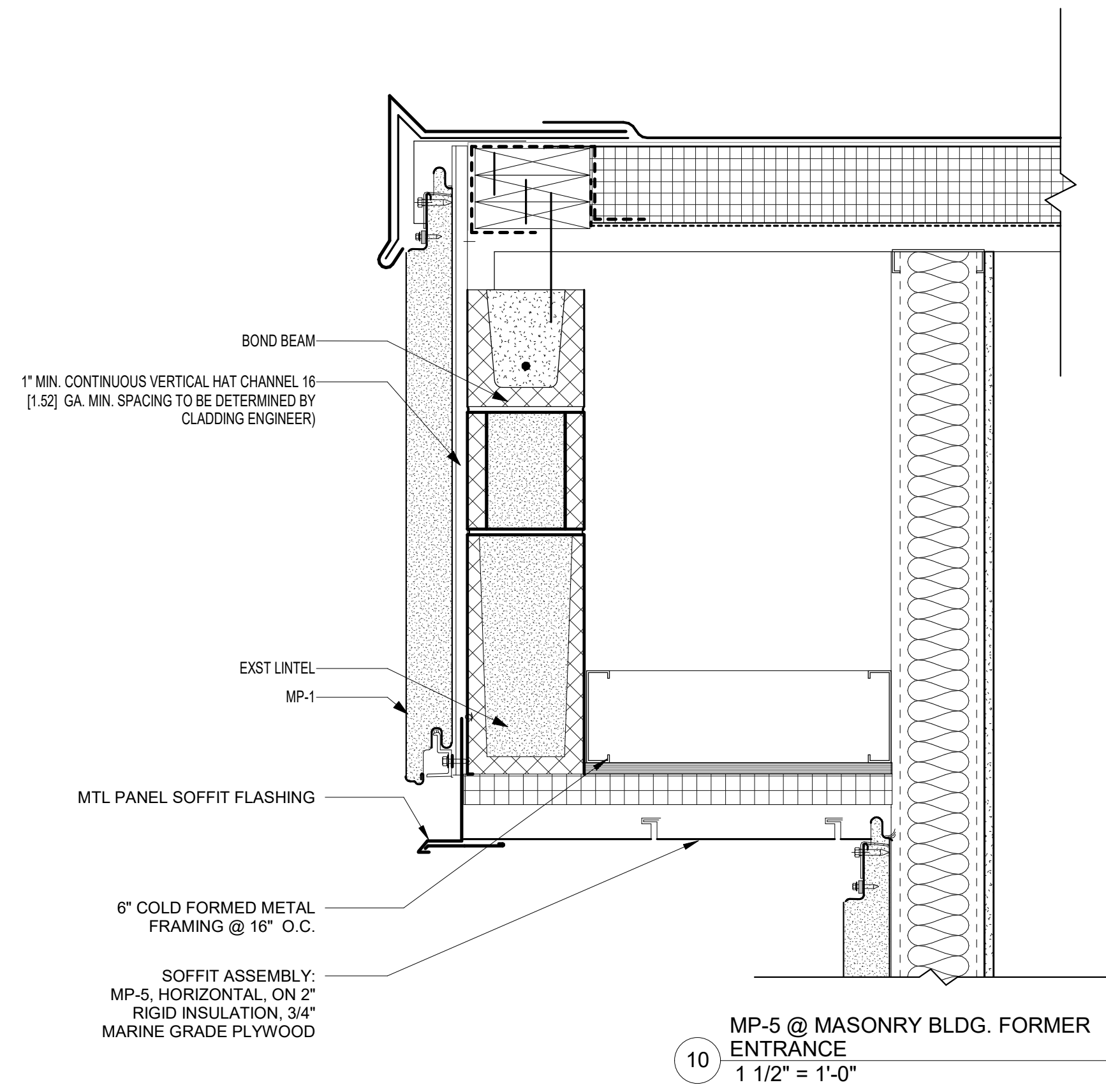
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY IB	DATE 08/26/2024	DRAWING No.
CHECKED BY 4K	SCALE 1/8" = 1'-0"	A-6.0

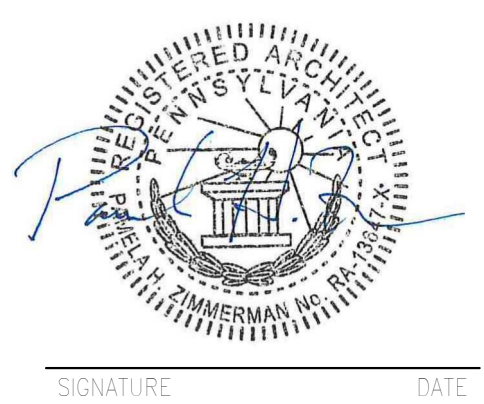




VERIFY SCALE
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
 0 1
 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

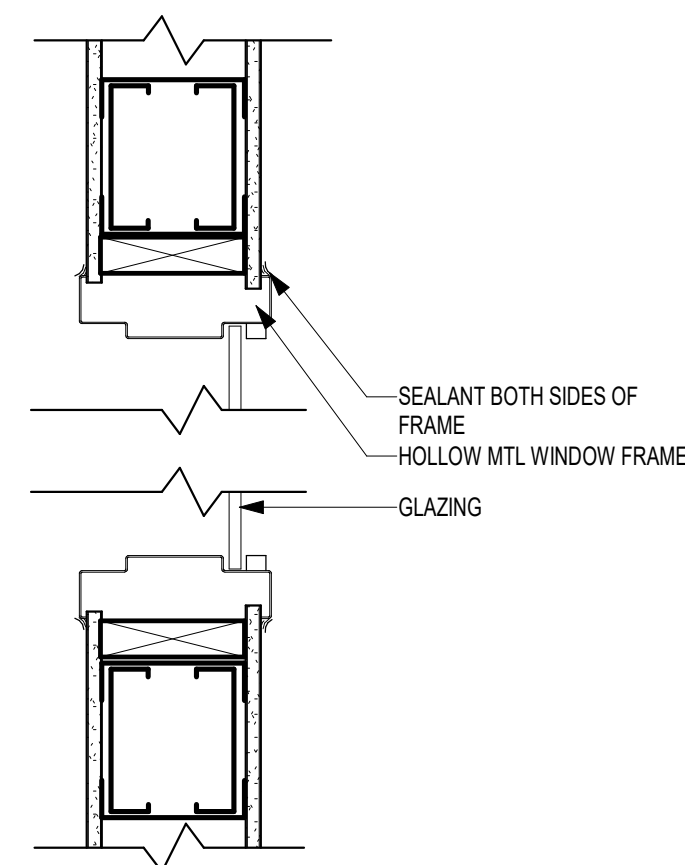
BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT - REVISED 02/27/2024	

RECORD REVISIONS
 Construction Document - August 26, 2024

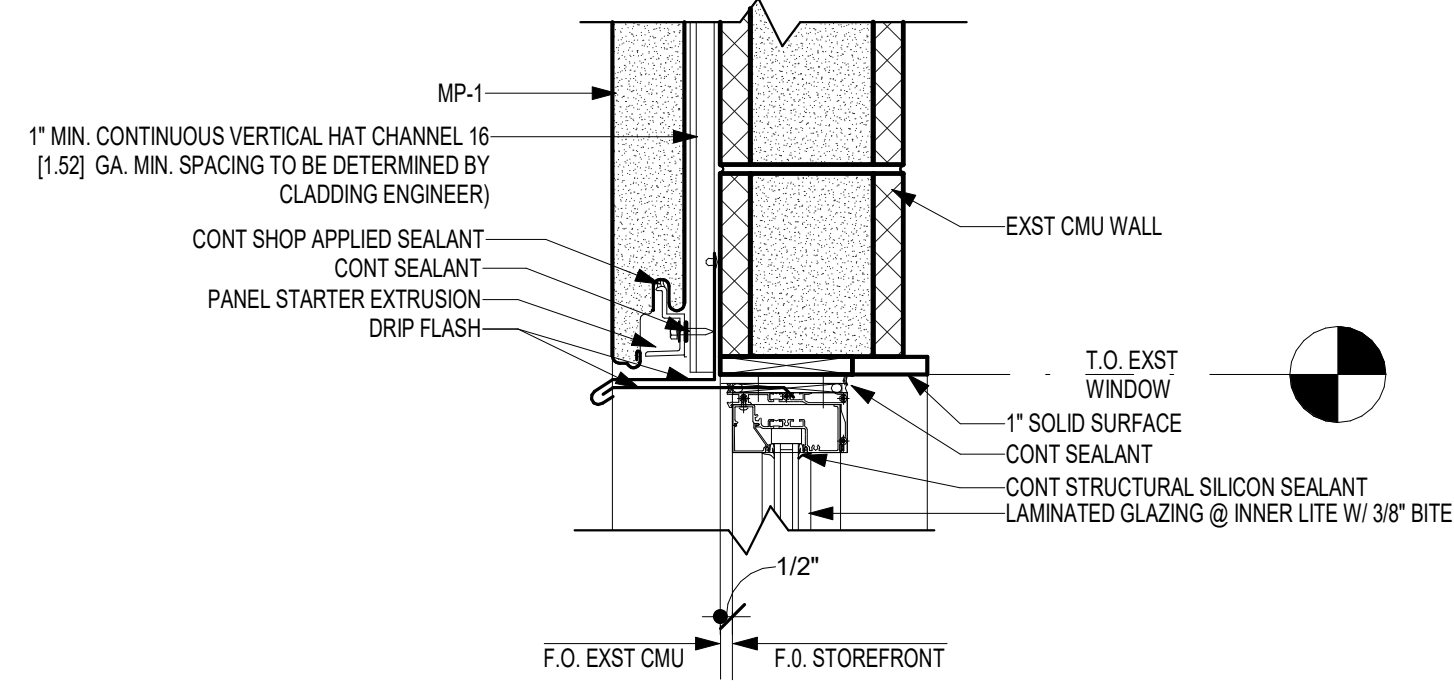


ZIMMERMAN STUDIO LLC
 ARCHITECTURE + PROJECT MANAGEMENT

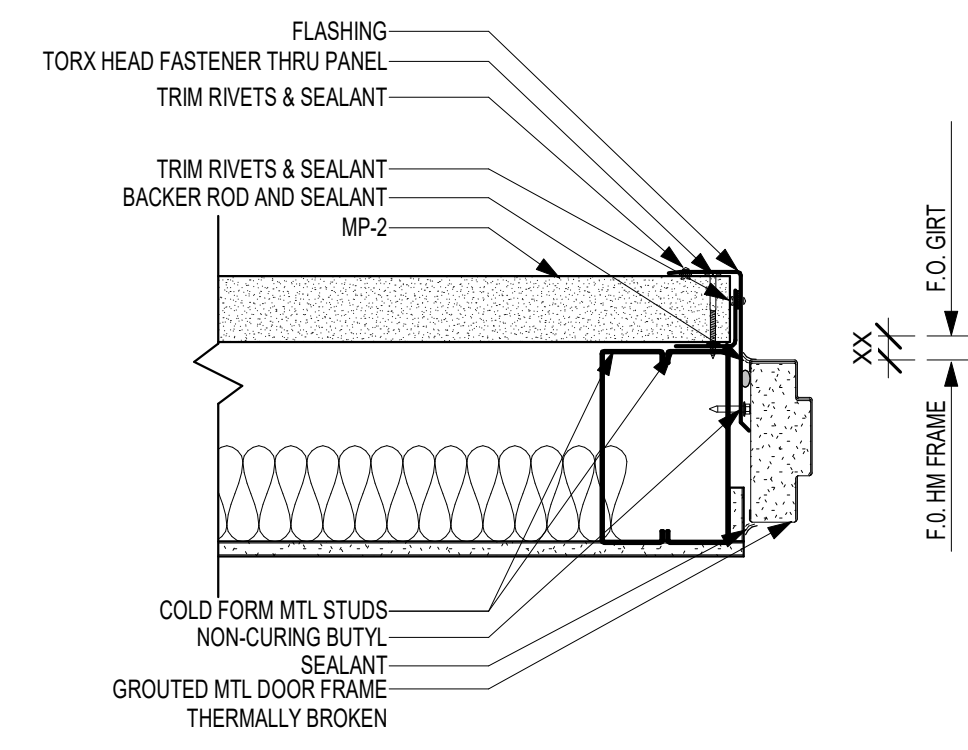
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
 HARRISBURG, PA 19044
 D.G.S. PROJECT No. **DGS C-0961-0044 PHASE 01**
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044
EXTERIOR WALL DETAILS
 DRAWN BY **IB** DATE **08/26/2024** DRAWING No. **A-7.0**
 CHECKED BY **AK** SCALE **As Indicated**



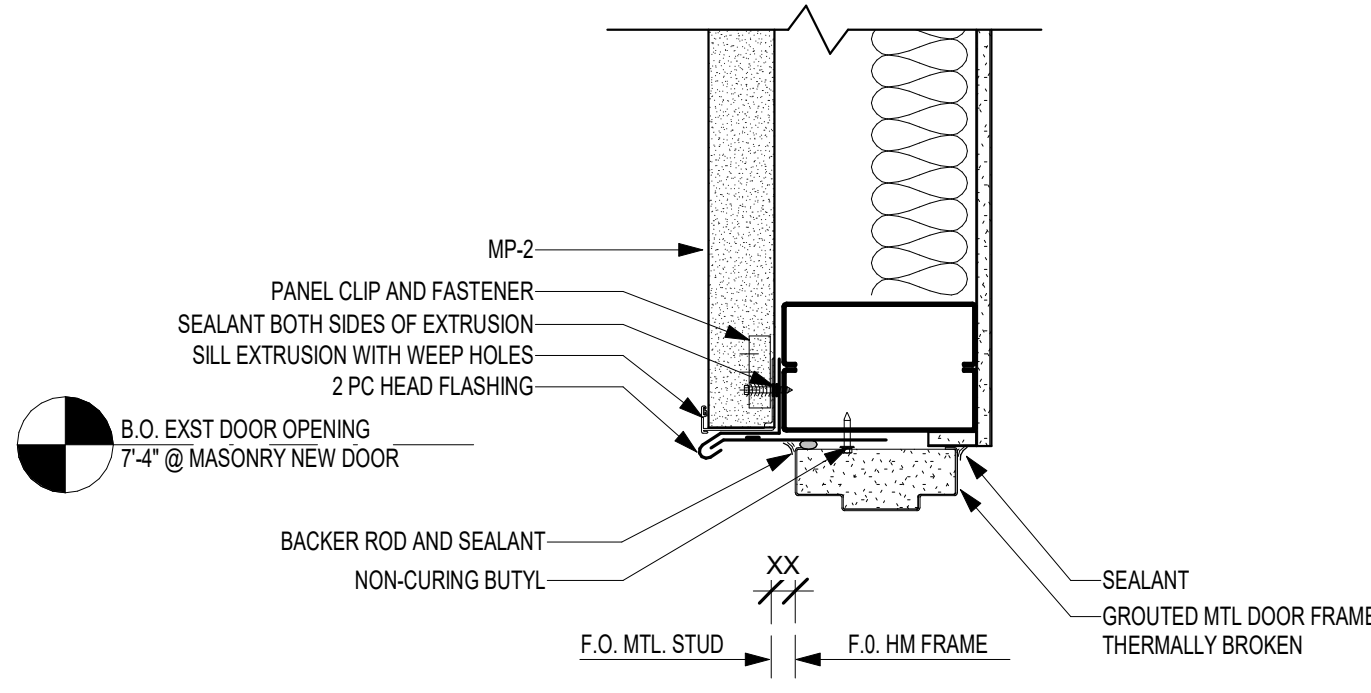
12 HOLLOW METAL INTERIOR WINDOW DETAIL
1 1/2" = 1'-0"



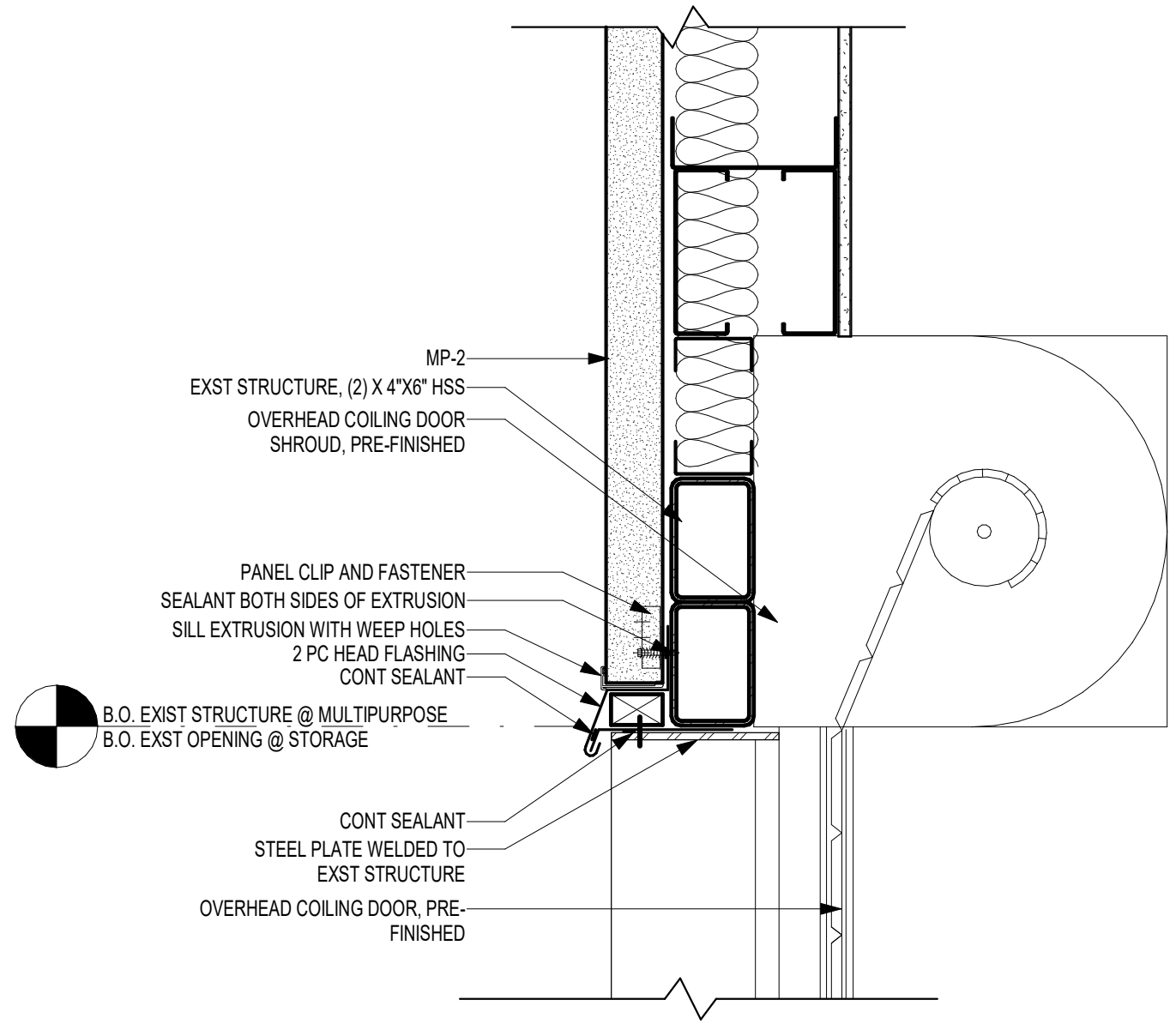
11 WINDOW HEAD @ MASONRY BUILDING
1 1/2" = 1'-0"



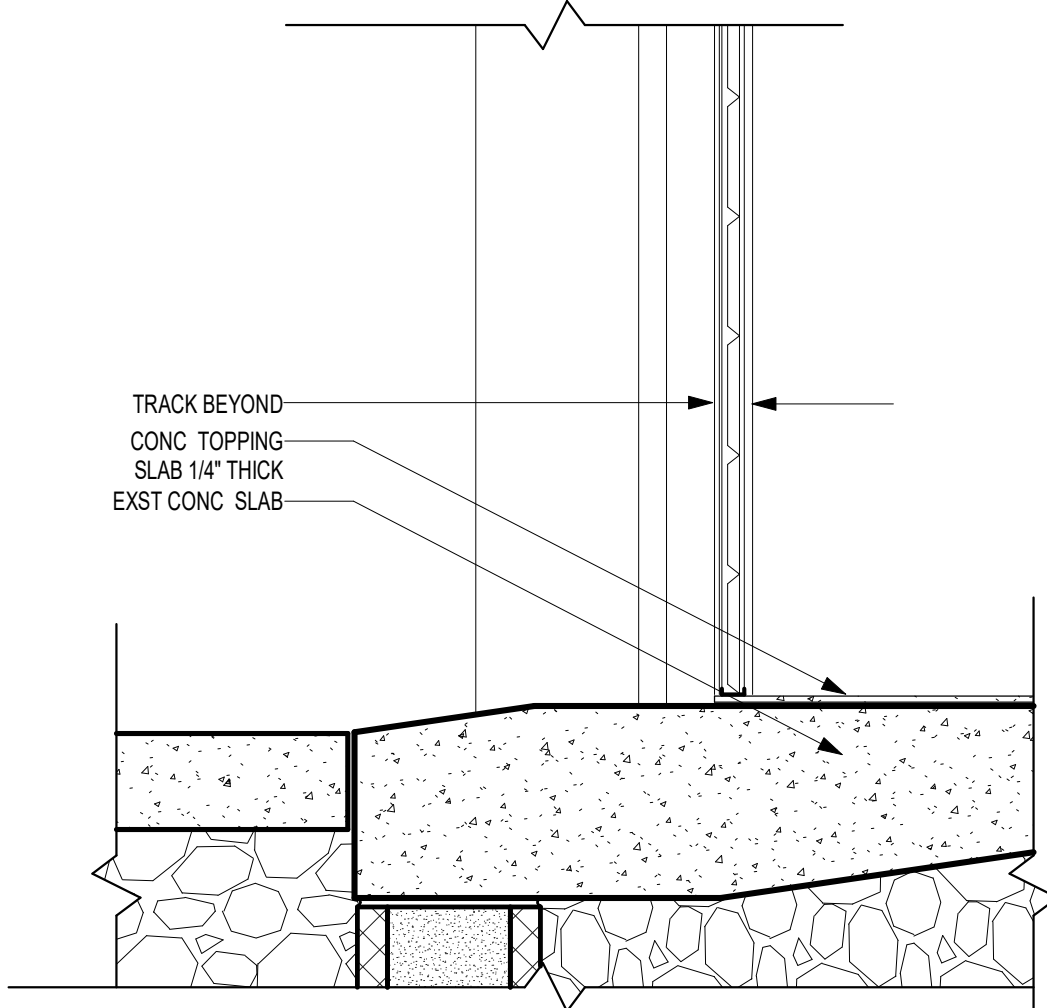
10 HOLLOW METAL DOOR JAMB DETAIL
1 1/2" = 1'-0"



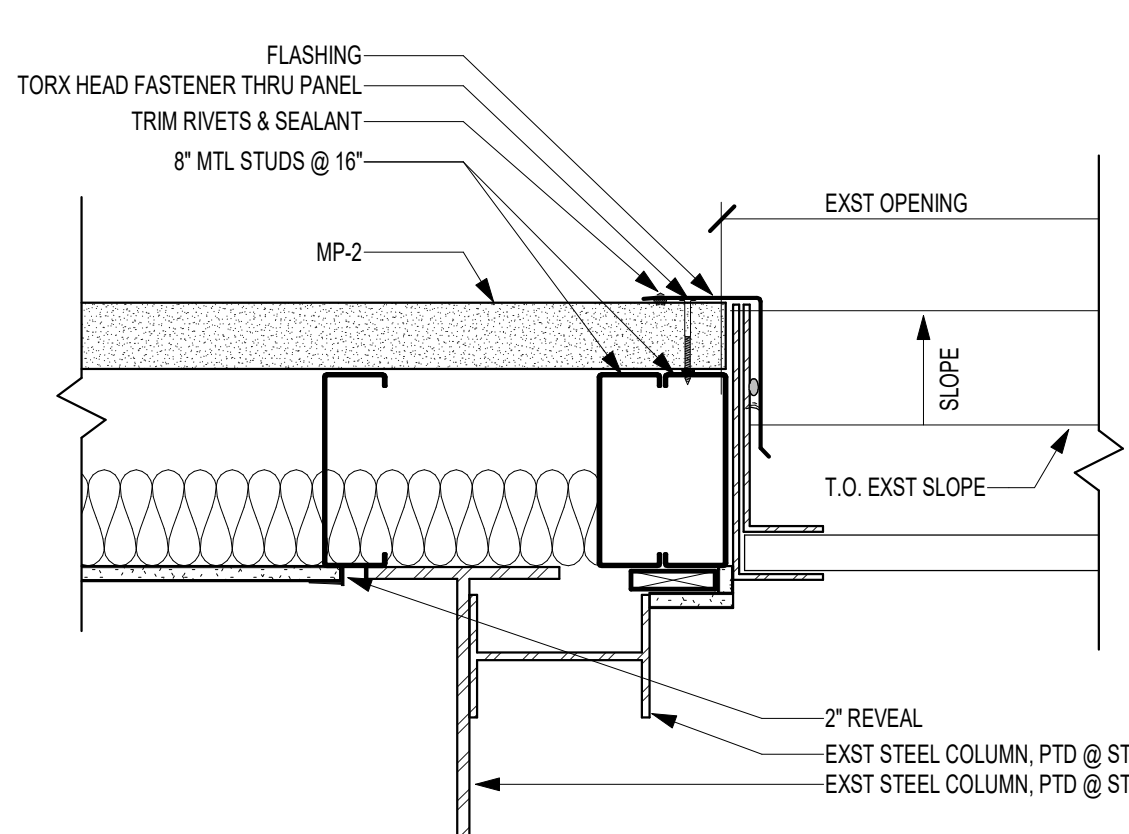
9 HOLLOW METAL DOOR HEAD DETAIL
1 1/2" = 1'-0"



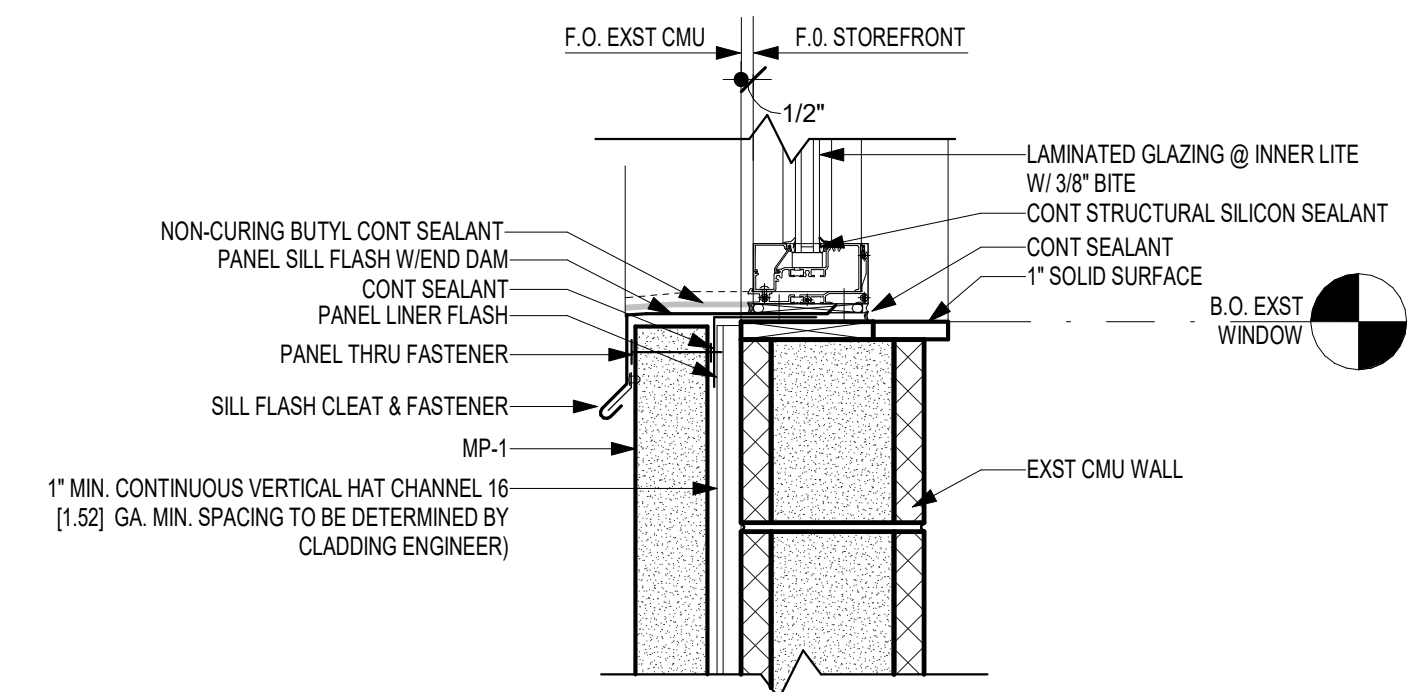
8 TYP OVERHEAD DOOR HEAD @ STORAGE (MULTIPURPOSE SIM)
1 1/2" = 1'-0"



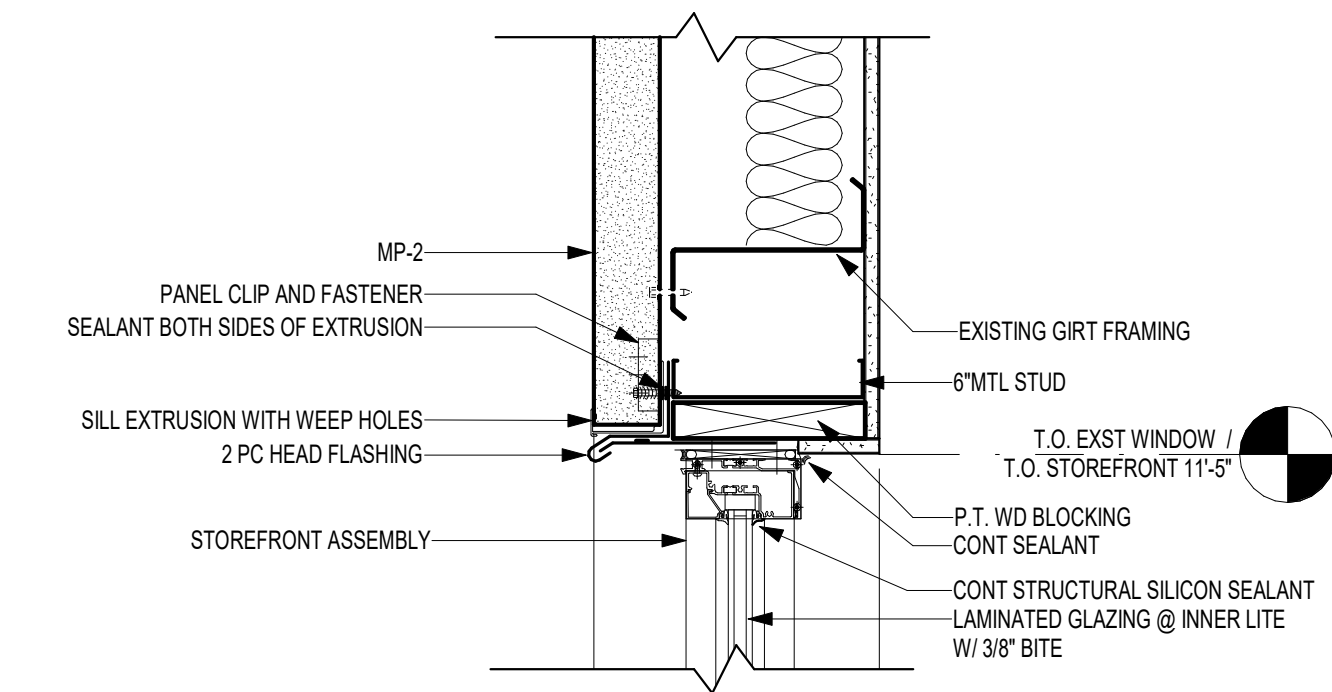
7 TYP OVERHEAD DOOR BASE
1 1/2" = 1'-0"



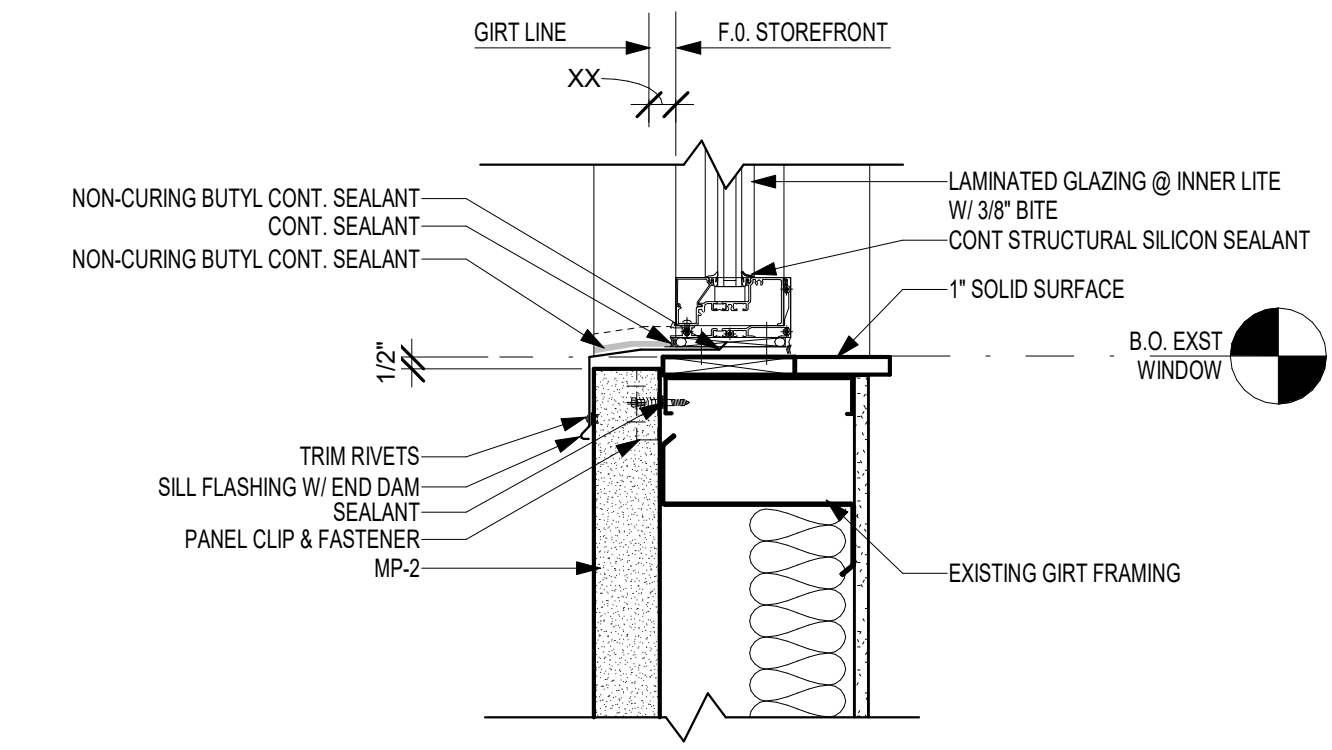
6 COILING DOOR JAMB @ STORAGE (MULTIPURPOSE SIM)
1 1/2" = 1'-0"



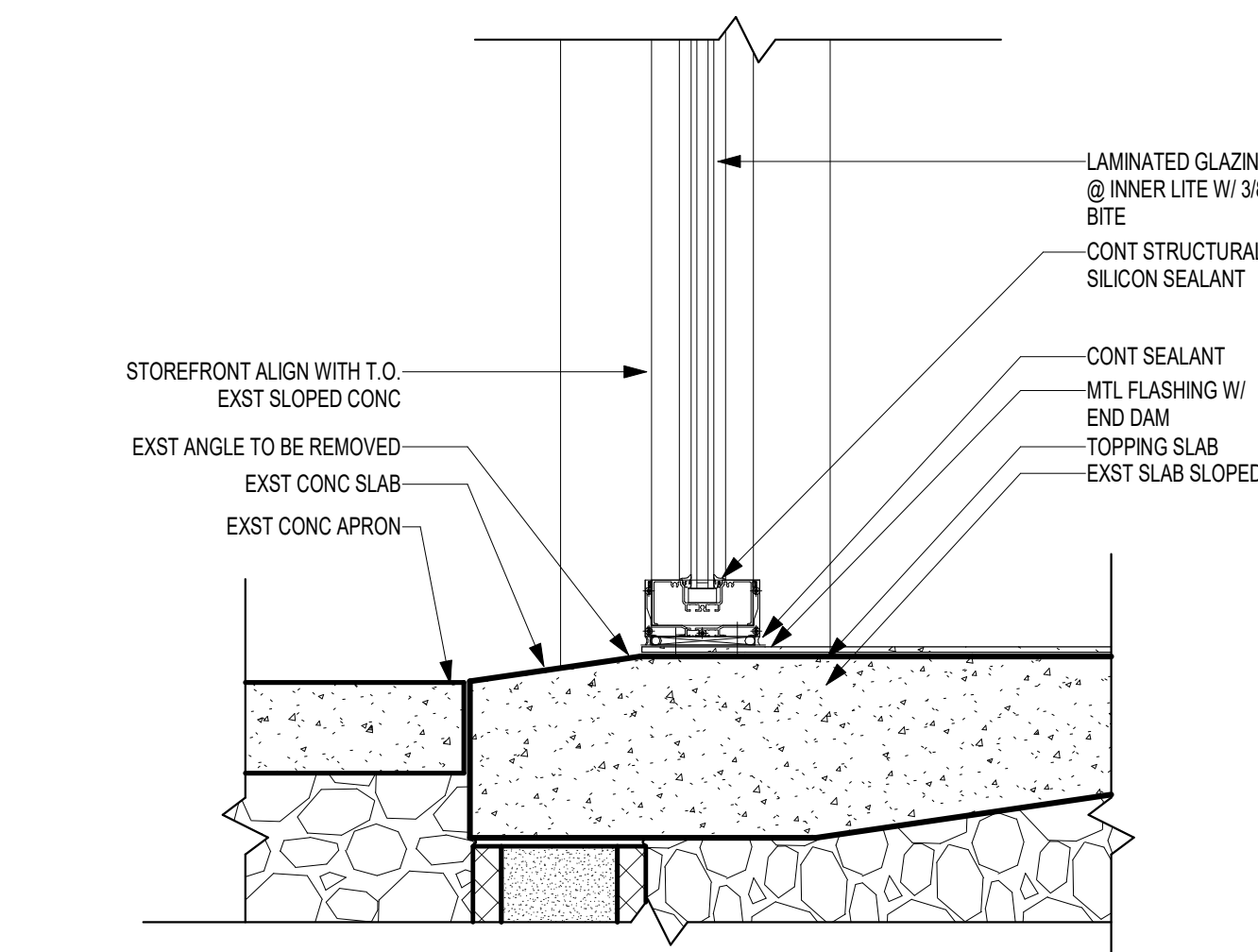
5 WINDOW SILL @ MASONRY BUILDING LOW CELL
1 1/2" = 1'-0"



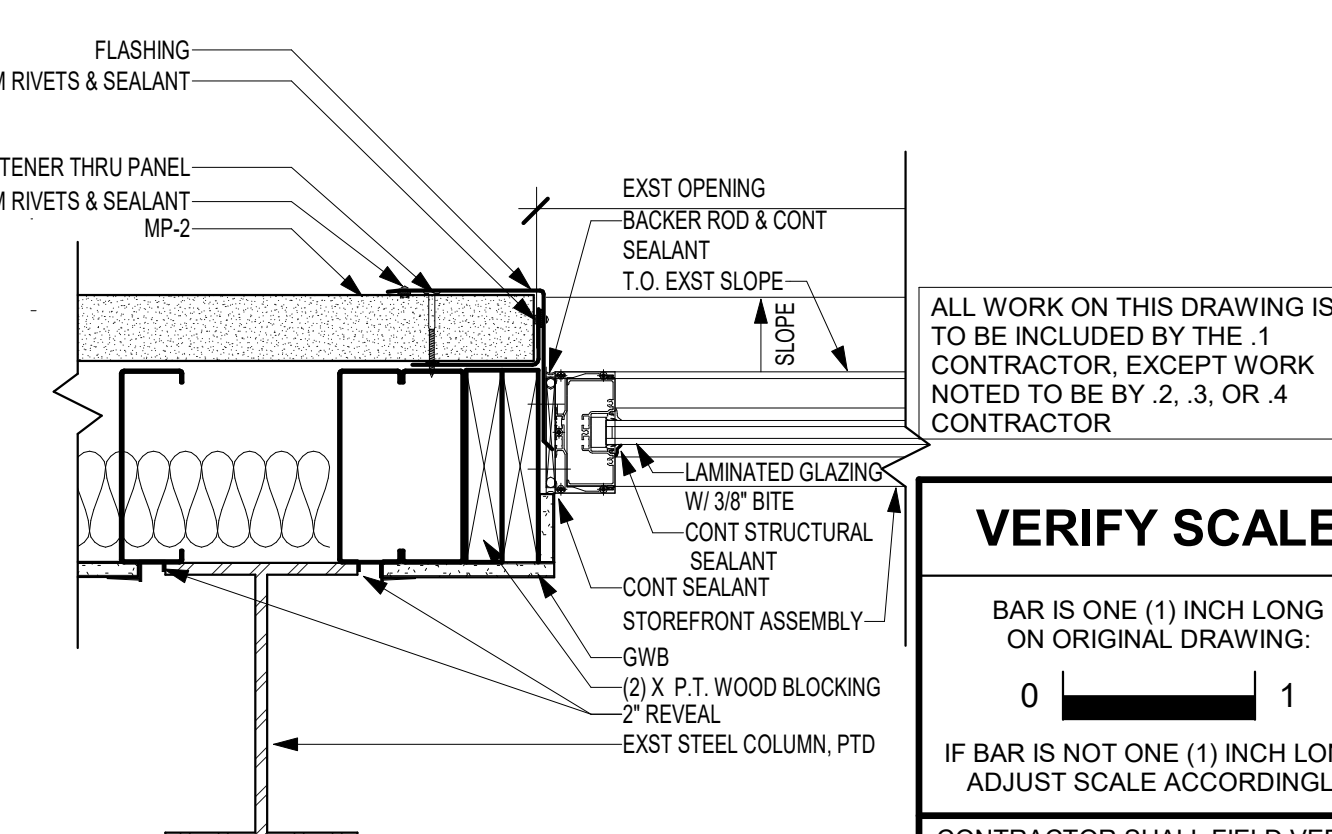
4 WINDOW HEAD @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"



3 WINDOW SILL @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"



2 TYP STOREFRONT SILL
1 1/2" = 1'-0"



1 STOREFRONT JAMB @ PREMANUFACTURED BUILDING
1 1/2" = 1'-0"

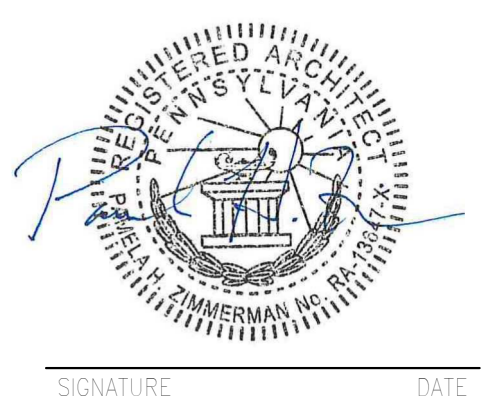
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE 1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 10/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

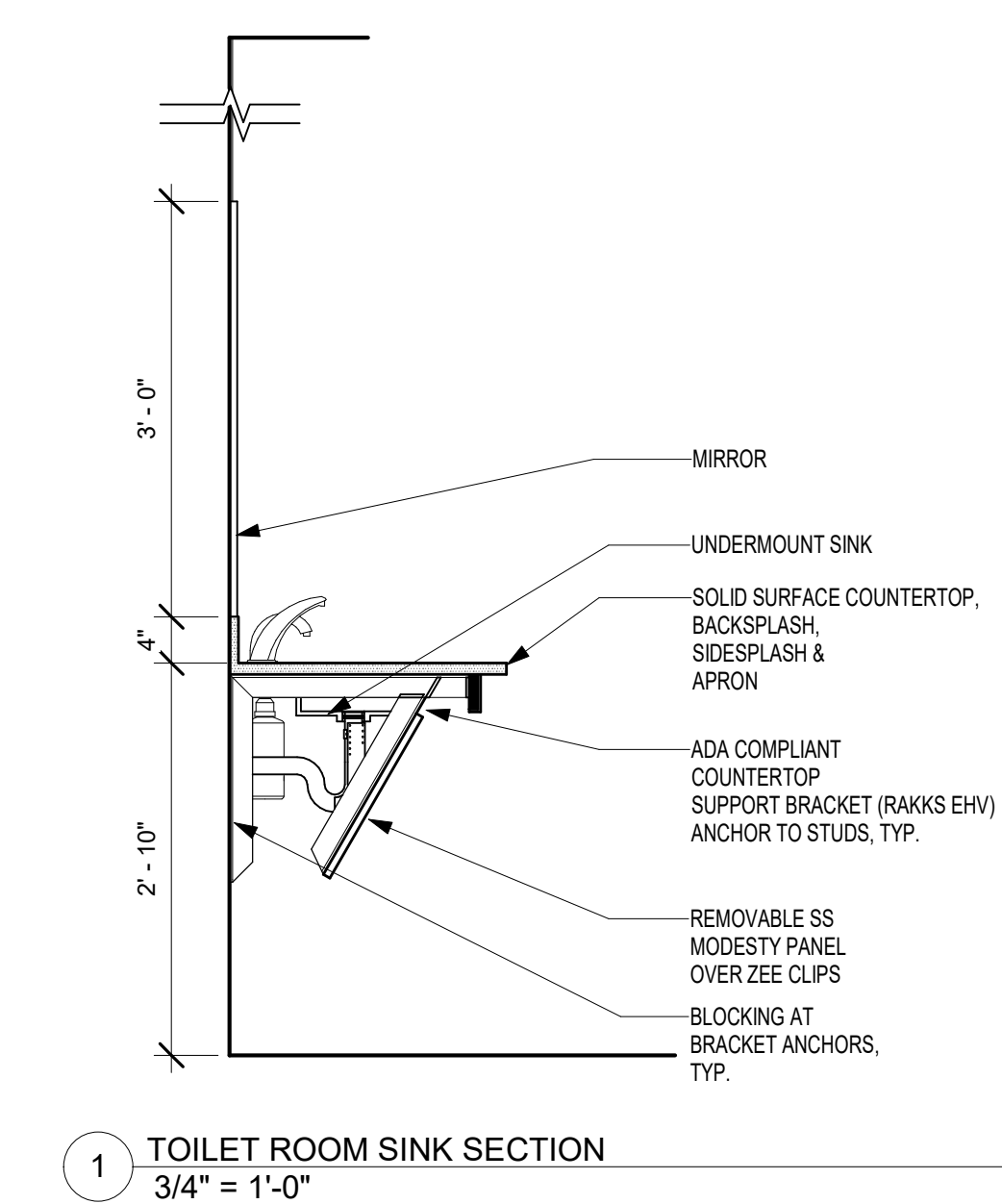
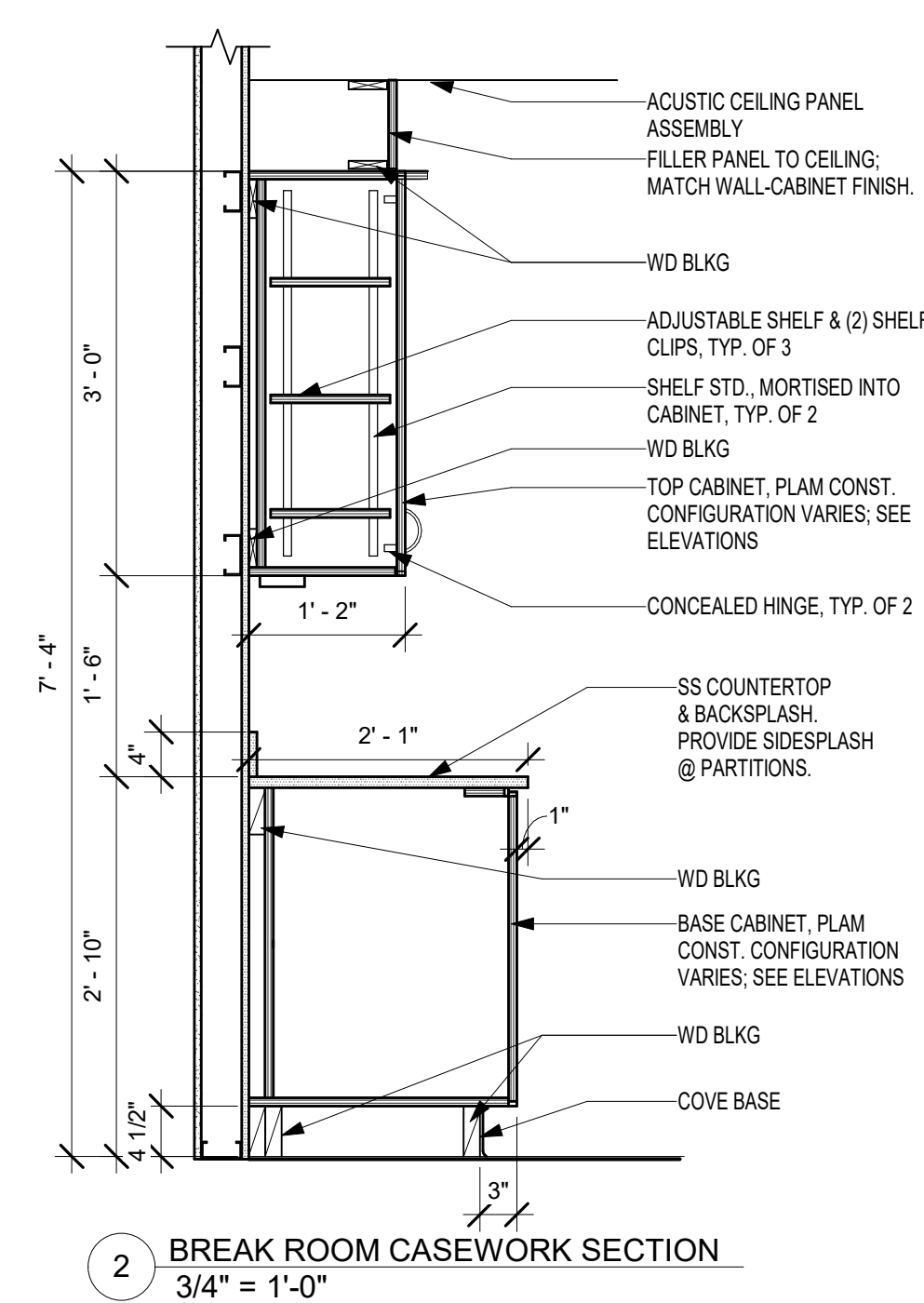
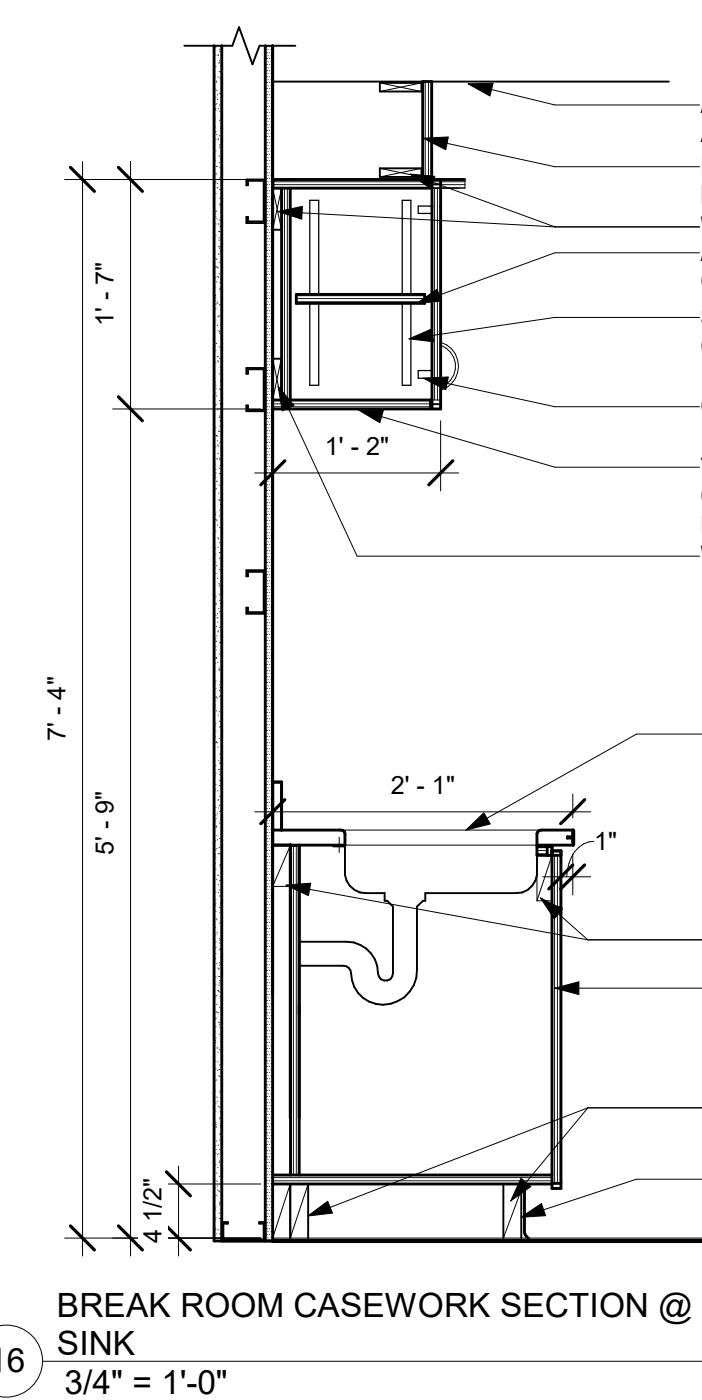
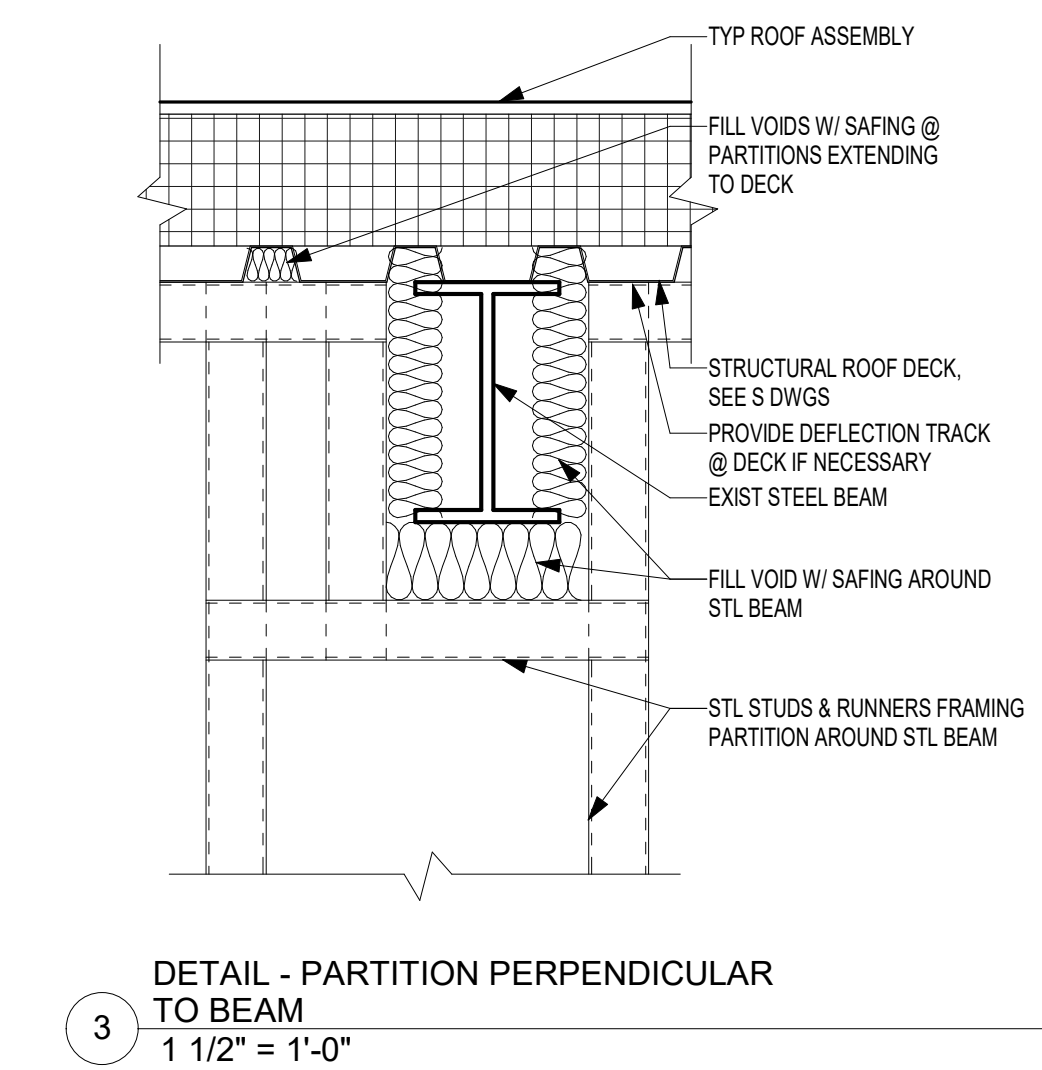
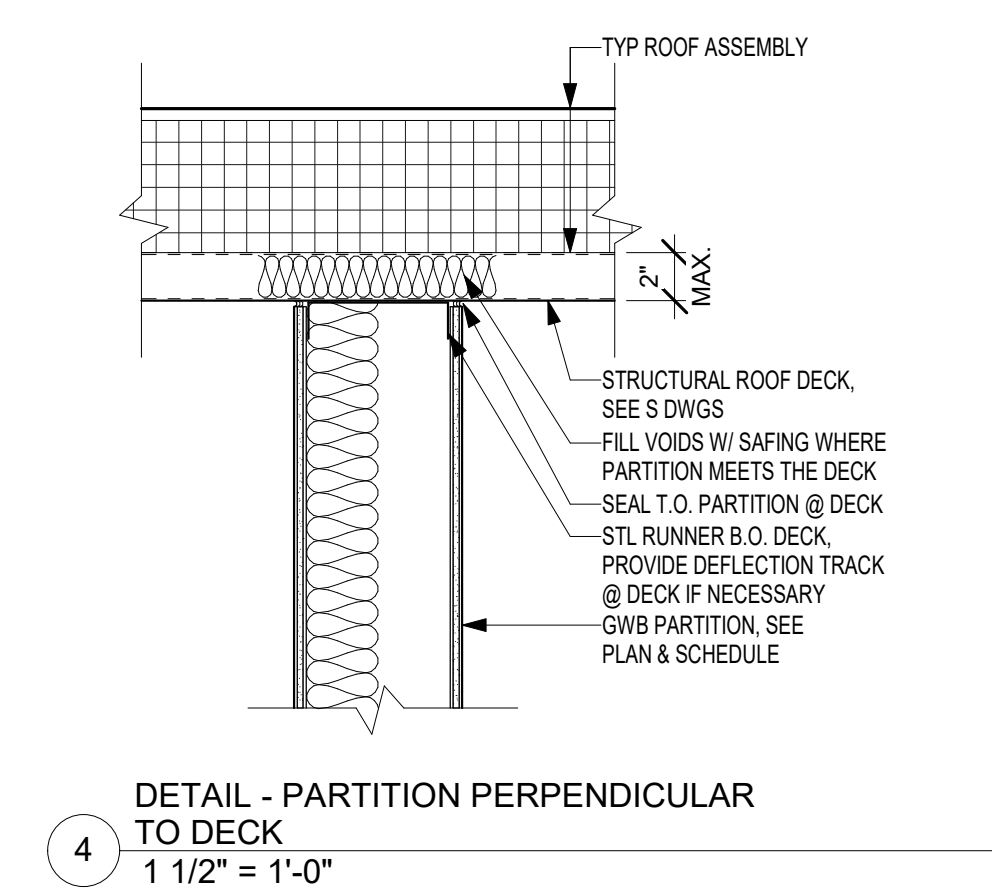
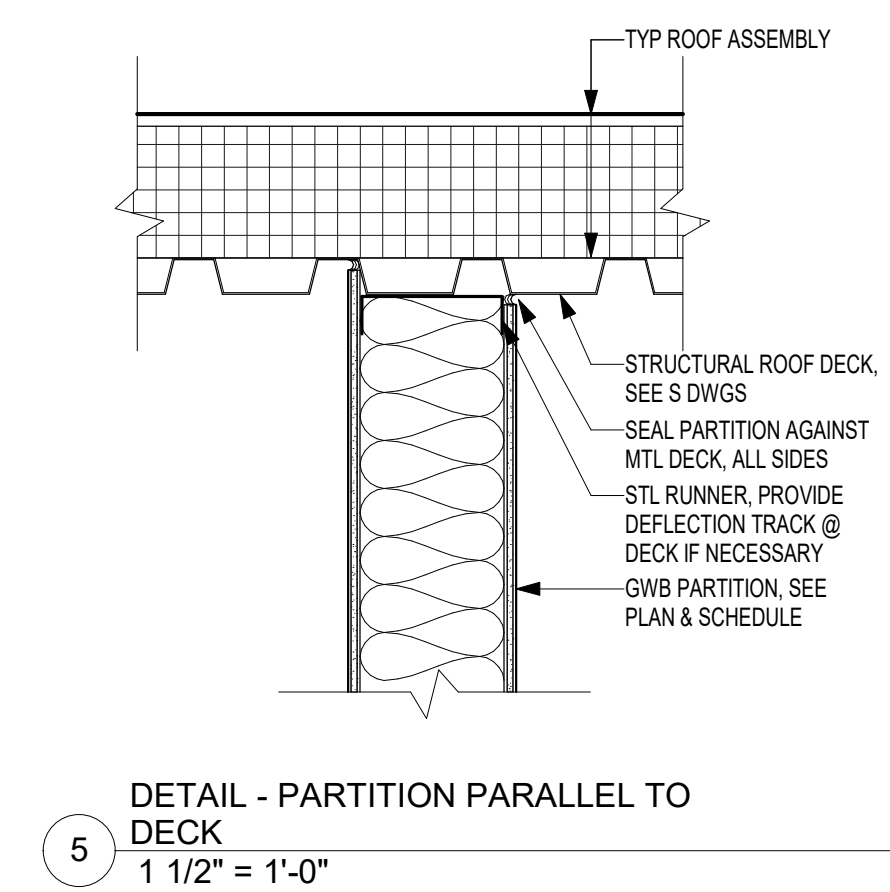
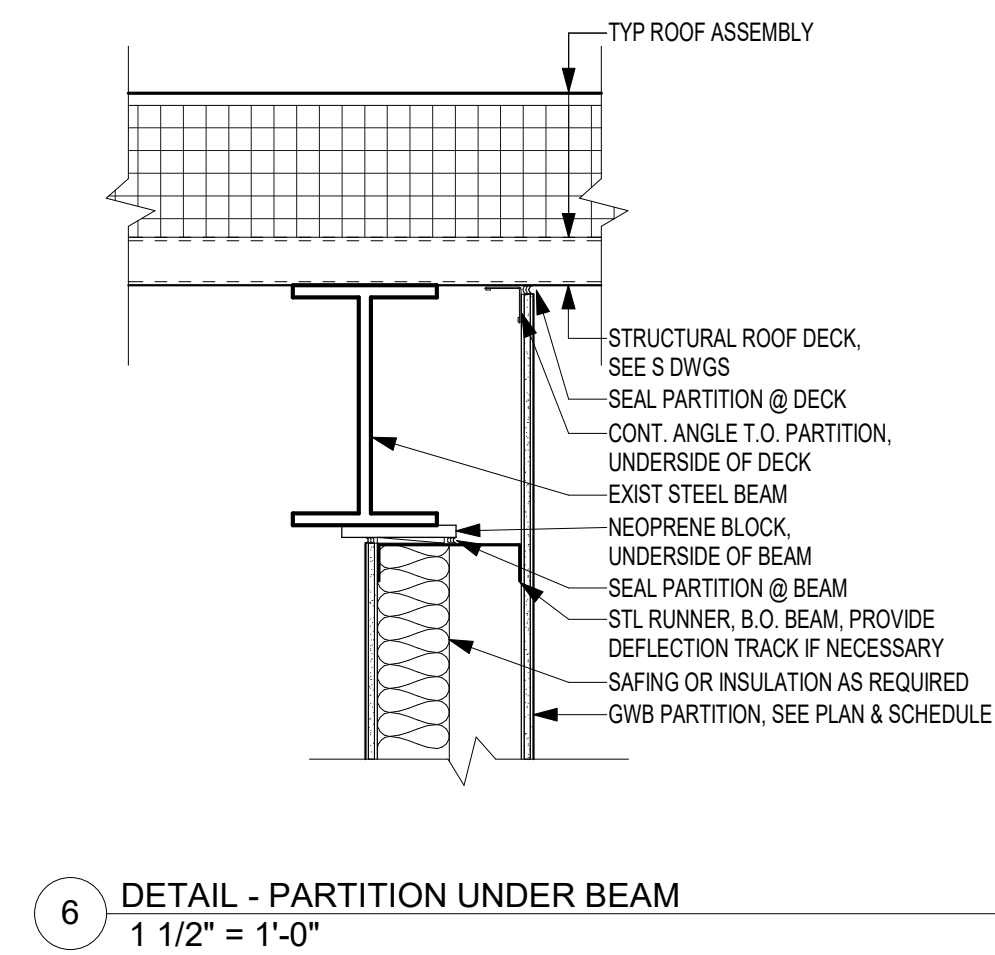
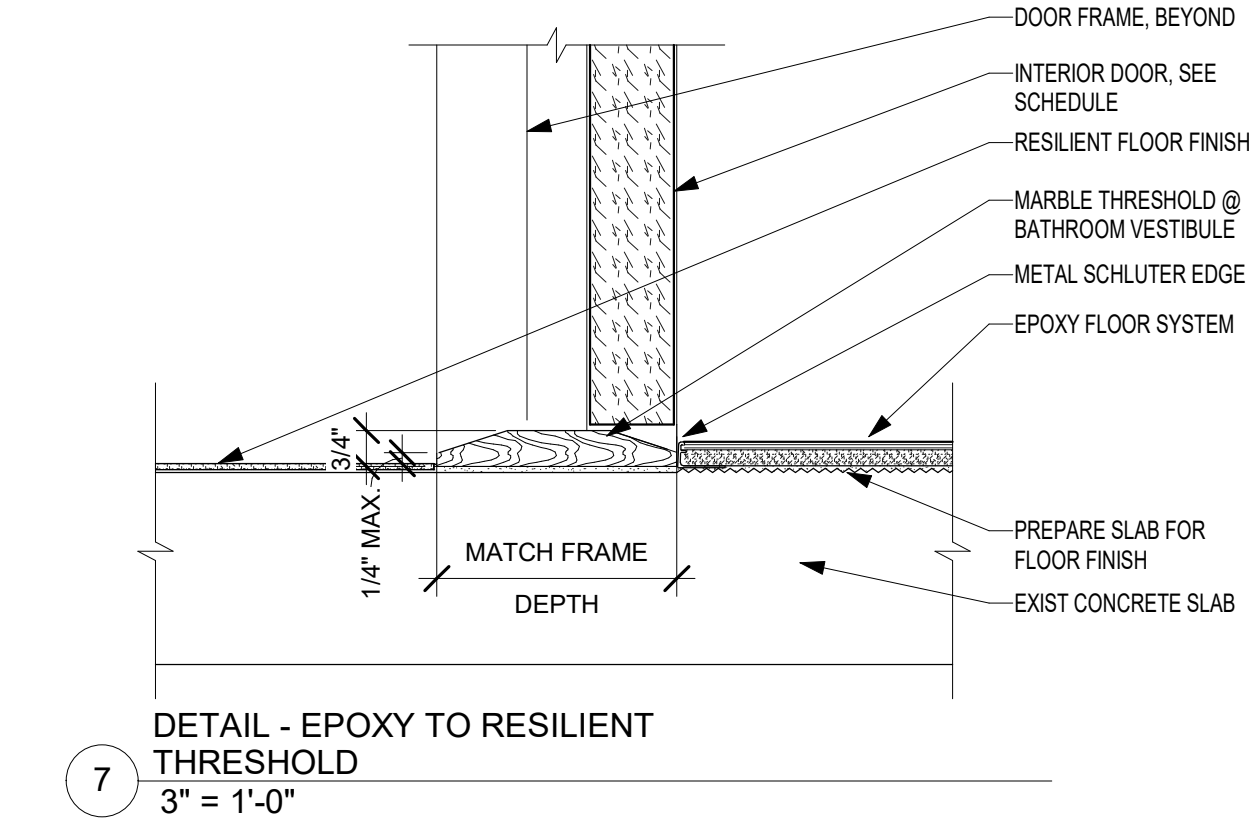
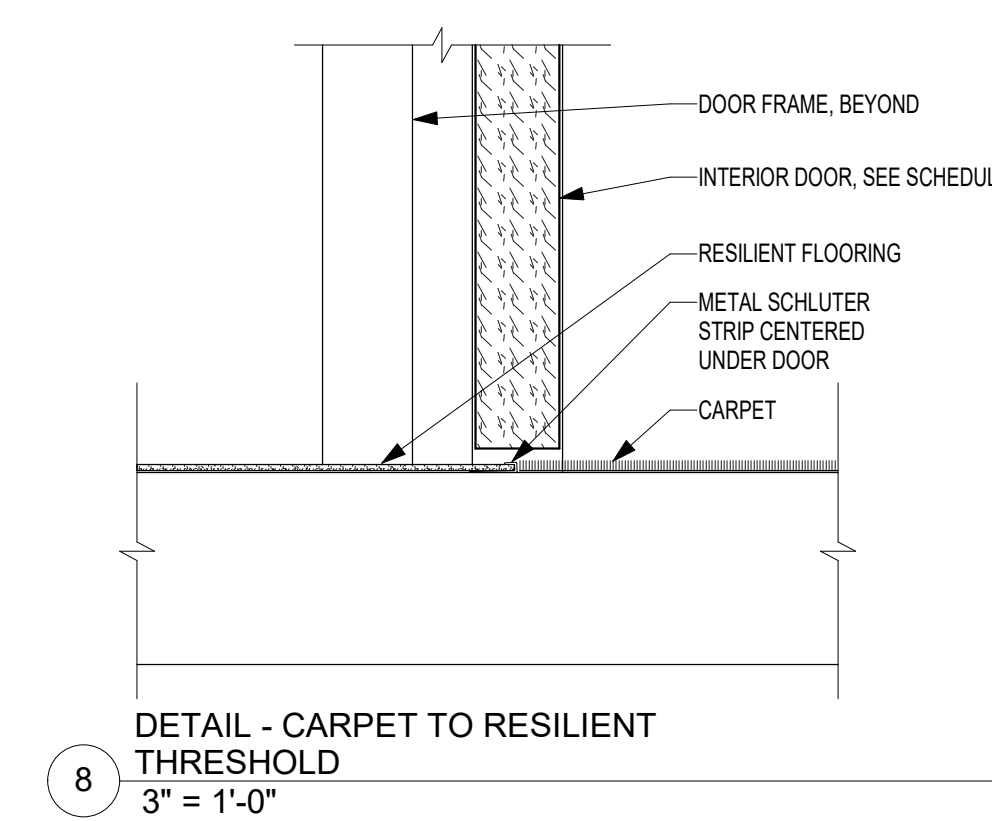
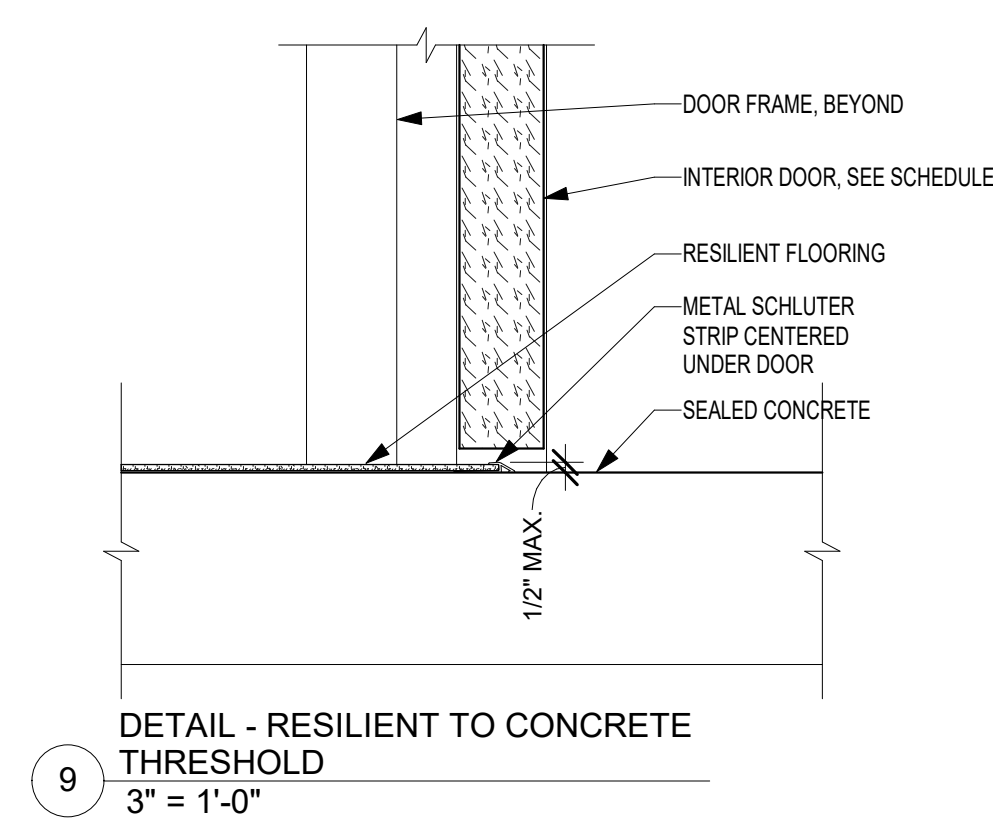
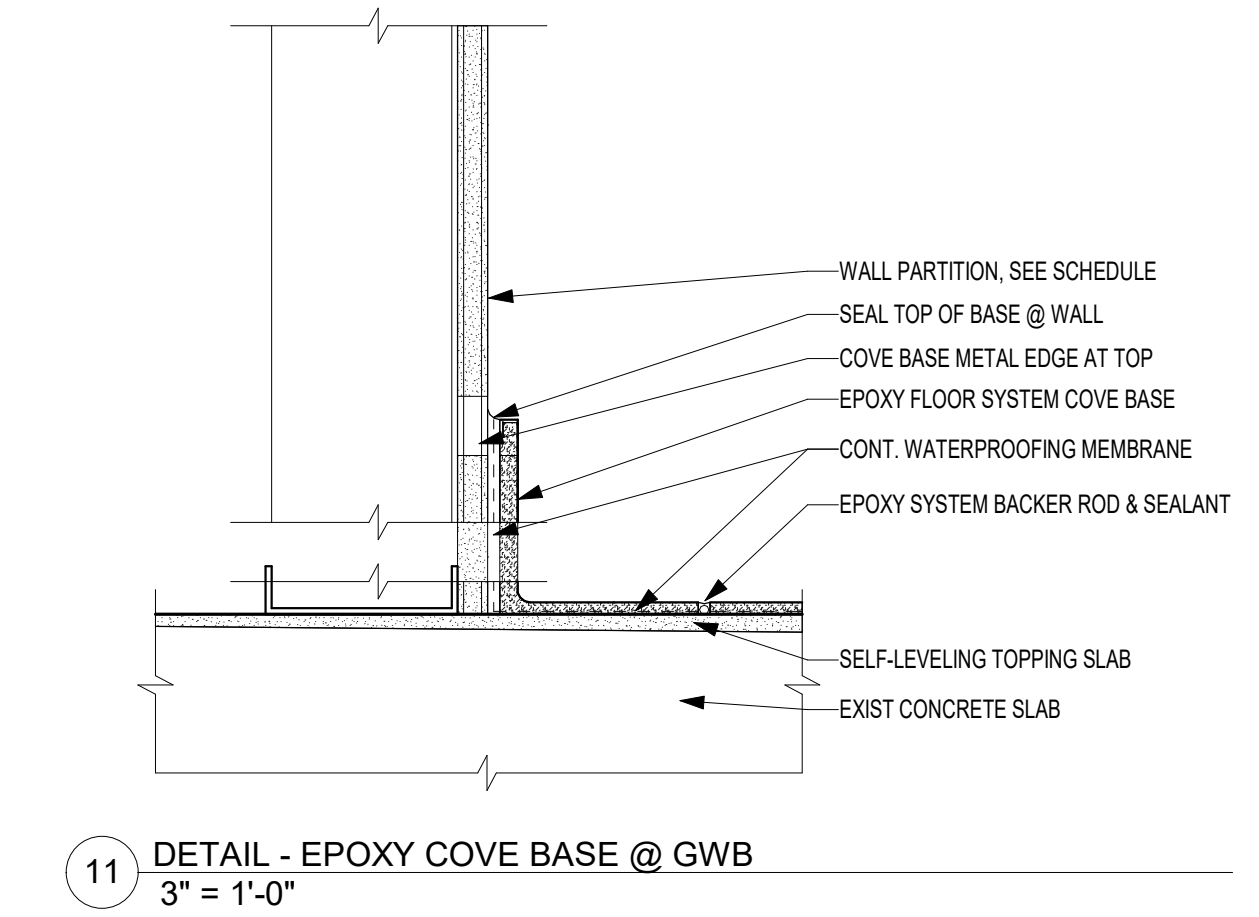
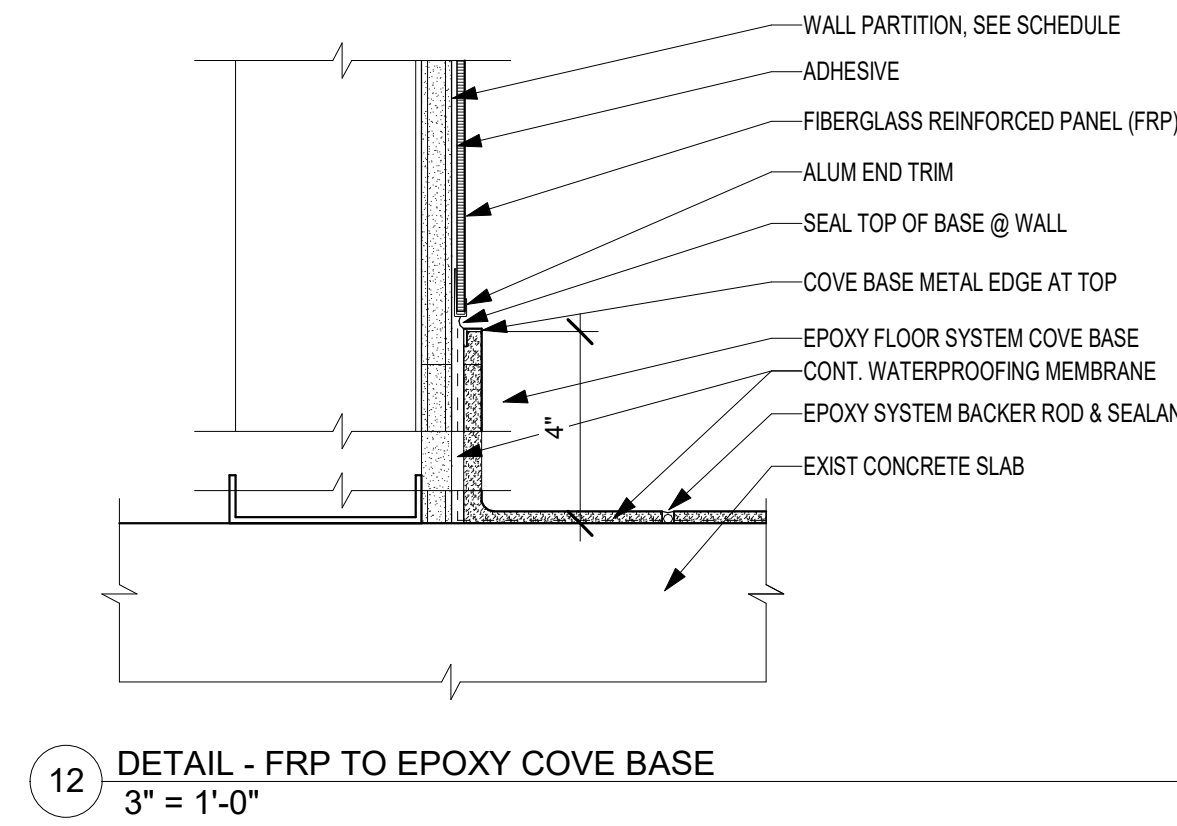
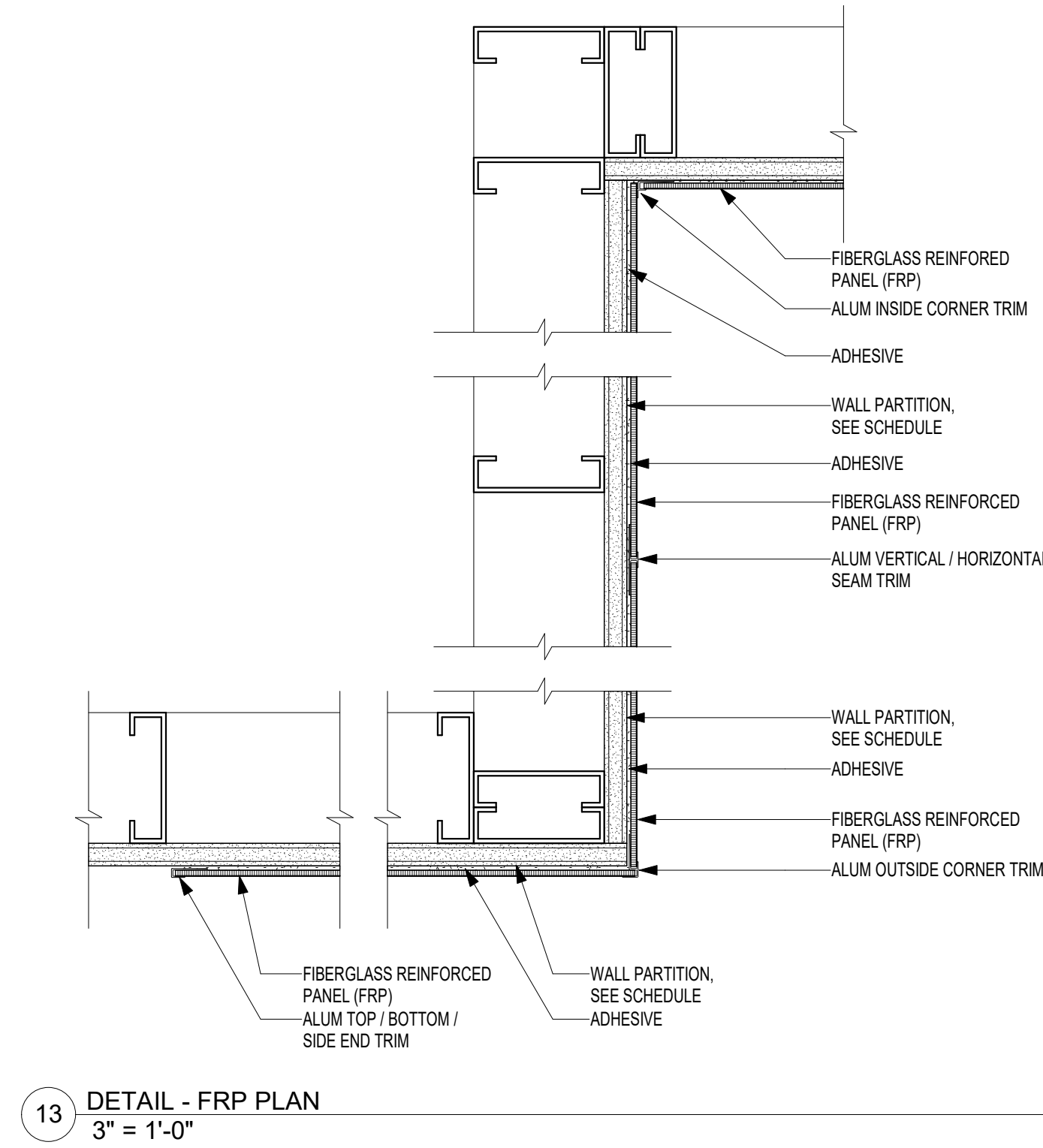
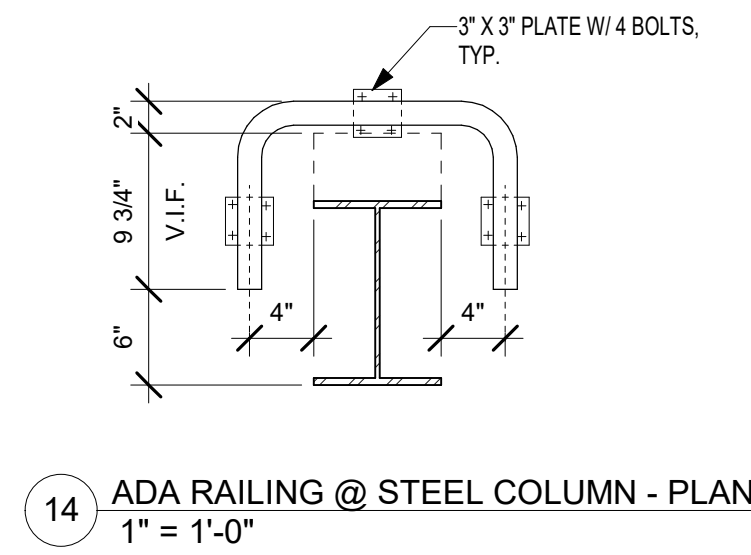
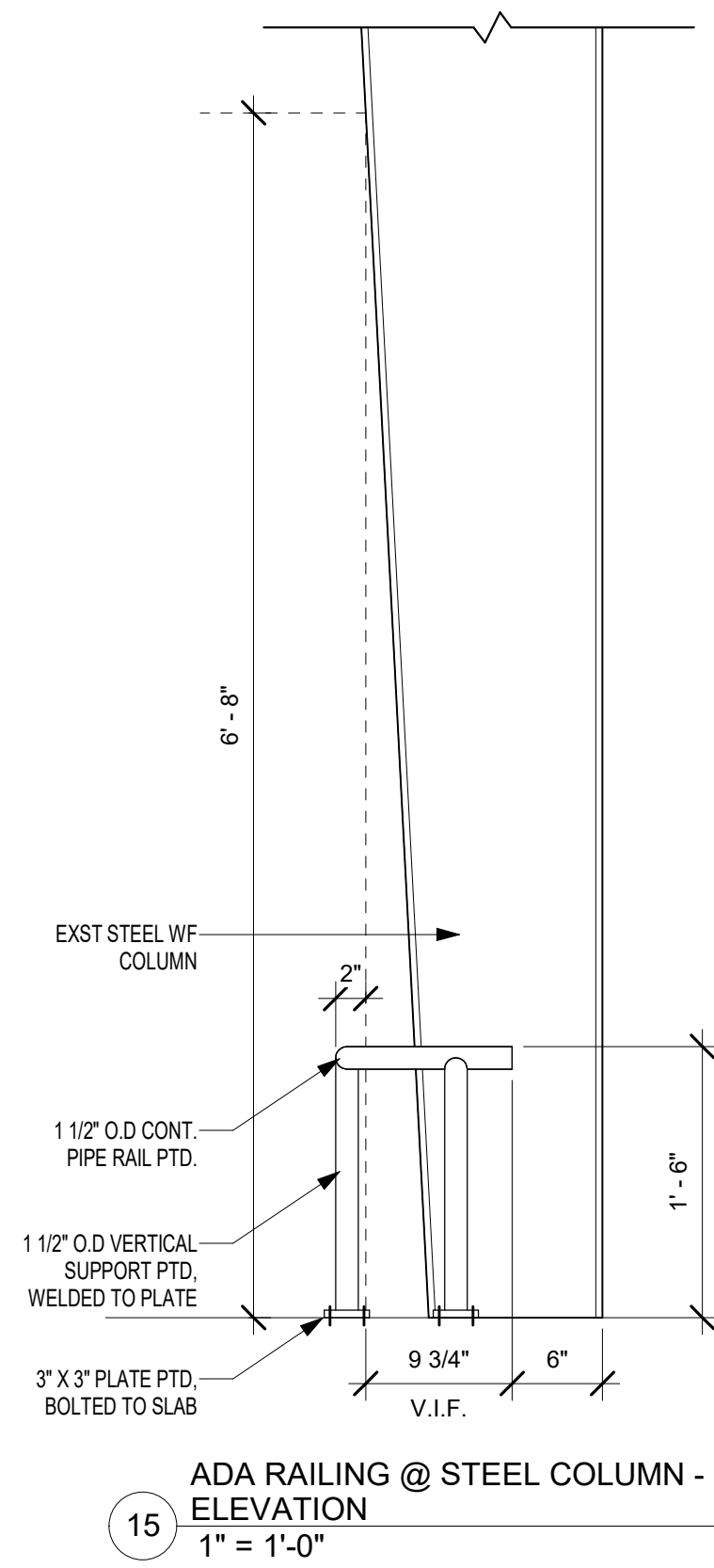
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

EXTERIOR OPENING DETAILS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY IB	DATE 08/26/2024	DRAWING No. A-7.1
	CHECKED BY AK	SCALE 1 1/2" = 1'-0"	



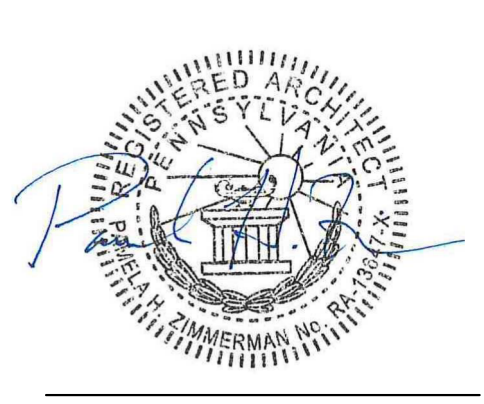
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE CONTRACTOR, EXCEPT WORK NOTED TO BE BY 2, 3, OR 4 CONTRACTOR

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

REV SET	08/28/2024	DESIGN DEVELOPMENT	01/28/2024
CONSTRUCTION DOCUMENTS	10/31/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT - REVISED	02/27/2024		

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

INTERIOR DETAILS

DRAWN BY	IB	DATE	08/26/2024	DRAWING No.	A-7.3
CHECKED BY	AK	SCALE	As Indicated		

LEGEND

	EXTENT OF DEMOLITION		FLEX DUCT
	POINT OF CONNECTION BETWEEN NEW WORK AND EXISTING WORK		DUCT BREAK/CONTINUATION
	EXISTING WORK TO REMAIN		UNION
	NEW WORK		REDUCER OR INCREASER
	EXISTING WORK TO BE DEMOLISHED		GATE VALVE
	DEMOLITION NOTE		BALL VALVE
	NEW WORK NOTE		CAPPED PIPE
	SUPPLY AIR DUCT UP (SECTION)		PIPE/DUCT DOWN
	SUPPLY AIR DUCT DOWN		PIPE/DUCT DOWN (45°)
	RETURN/EXHAUST AIR DUCT UP (SECTION)		BREAK IN PIPE/DUCT
	RETURN/EXHAUST AIR DUCT DOWN		PIPE/DUCT TAKE-OFF (BOTTOM)
	SUPPLY CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)		PIPE OR ROUND DUCT (UP/SECTION)
	RETURN/EXHAUST CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)		VOLUME DAMPER
	DUCT SILENCER		THERMOSTAT
	MOTORIZED DAMPER		GHW RE HEAT COIL

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	GHW	GLYCOL HOT WATER	OA	OUTSIDE AIR
AHU	AIR HANDLING UNIT	GHWR	GLYCOL HOT WATER RETURN	ODU	MS OUTDOOR UNIT
CL	CENTER LINE ELEVATION OF PIPE ABOVE FINISHED FLOOR	GHWS	GLYCOL HOT WATER SUPPLY	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	HHW	HEATING HOT WATER	RAD	RADIATOR
CHW	CHILLED WATER	HHWR	HEATING HOT WATER RETURN	RAR	RETURN AIR REGISTER
CHWR	CHILLED WATER RETURN	HHWS	HEATING HOT WATER SUPPLY	RG	RETURN AIR GRILLE
CHWS	CHILLED WATER SUPPLY	HPC	HIGH PRESSURE STEAM CONDENSATE	RHC	REHEAT COIL
COND	CONDENSATE	HPS	HIGH PRESSURE STEAM	RHW	REHEAT HOT WATER
CONV.	CONVECTOR	IDU	MS INDOOR UNIT	RHWR	REHEAT HOT WATER RETURN
CV	CONTROL VALVE	IW	INDIRECT WASTE	RHWS	REHEAT HOT WATER SUPPLY
DN.	DOWN	LPC	LOW PRESSURE STEAM CONDENSATE	RTU	ROOFTOP UNIT
EA	EXHAUST AIR	LPS	LOW PRESSURE STEAM	S	ROOM TEMPERATURE SENSOR
EL	ELEVATION	MFG	MANUFACTURER	SA	SUPPLY AIR
(E)	EXISTING	MAX.	MAXIMUM	SAD	SUPPLY AIR DIFFUSER
E.C.	ELECTRICAL CONTRACTOR	M.C.	MECHANICAL CONTRACTOR	SF	SUPPLY AIR FAN
EF	EXHAUST FAN	MIN.	MINIMUM	SR	SUPPLY AIR REGISTER
ED	EXHAUST AIR DIFFUSER	MOD	MOTOR OPERATED DAMPER	SG	SUPPLY AIR GRILLE
EG	EXHAUST AIR GRILLE	MPC	MEDIUM PRESSURE STEAM CONDENSATE	SDA	SOUND ATTENUATOR
ERV	ENERGY RECOVERY VENTILATOR	MPS	MEDIUM PRESSURE STEAM	T	THERMOSTAT
FA	FRESH AIR	MS	MINI-SPLIT SYSTEM	TG	TRANSFER GRILLE
FCU	FAN COIL UNIT	MSSG	MAXIMUM SECURITY SUPPLY GRILLE	TS	TEMPERATURE SENSOR
FOB	FLAT ON BOTTOM	MSRG	MAXIMUM SECURITY RETURN GRILLE	TYP.	TYPICAL
FOT	FLAT ON TOP	NG	NATURAL GAS	UH	UNIT HEATER
FTR	FIN TUBE RADIATOR	N.C.	NORMALLY CLOSED	VAV	VARIABLE AIR VOLUME
		N.O.	NORMALLY OPEN	VLV	VALVE

GENERAL MECHANICAL PROJECT NOTES:

- CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE PRIOR TO DOING ANY WORK AFFECTING ANY OPERATIONS WITHIN THE BUILDING.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEMOLISHED MATERIALS, EQUIPMENT, AND CONSTRUCTION DEBRIS FROM SITE COMPLETELY. NO DEMOLISHED MATERIALS, EQUIPMENT AND CONSTRUCTION DEBRIS SHALL BE STORED ON SITE.
- BEFORE LEAVING THE SITE AT ANYTIME THE CONTRACTOR SHALL ENSURE CONSTRUCTION AREA IS SECURE, ALL MATERIALS AND EQUIPMENT ARE STORED SO NOT TO CREATE A HAZARD, AND ALL CONSTRUCTION DEBRIS IS CLEANED UP. THE CONSTRUCTION AREA SHALL BE SWEEP DAILY.
- CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE TO DETERMINE APPROVED LOCATIONS FOR NEW EQUIPMENT AND MATERIAL LAY-DOWN AREAS PRIOR TO SUBMITTING THEIR BID.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION.
- ALL DRAWINGS ARE DIAGRAMMATIC AND ARE FOR CONTRACTOR'S REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, EQUIPMENT CONNECTION SIZES, AND EXISTING FIELD CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL SHUTDOWNS REQUIRED TO COMPLETE WORK WITH OWNER. CONTRACTOR SHALL NOT BEGIN WORK UNTIL SCHEDULE IS APPROVED BY OWNER. CONTRACTOR TO ALLOW 2 WEEKS FOR SHUTDOWN COORDINATION.
- CONTRACTOR SHALL REFER TO PLANS, SCHEDULES, DETAILS, DIAGRAMS AND SPECIFICATIONS FOR PROJECT INFORMATION AND REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ALL PIPING TIGHT TO UNDERSIDE OF BUILDING STRUCTURE. WHERE EXISTING UTILITIES PREVENT SUCH INSTALLATION, THE CONTRACTOR SHALL OFFSET NEW PIPING AROUND EXISTING UTILITY AND PROVIDE PIPING IMMEDIATELY BELOW SUCH EXISTING UTILITY.
- CONTRACTOR SHALL PROVIDE ALL VALVES WITH STEM EXTENSIONS TO ACCOMMODATE FOR THE INSULATION THICKNESS SPECIFIED.
- CONTRACTOR SHALL PROVIDE ALL DAMPER HAND QUADRANTS AND OPERATORS WITH STANDOFFS TO ACCOMMODATE FOR THE INSULATION THICKNESS SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FOR ALL FURNITURE, FLOORS, WALLS, CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AESTHETIC ITEMS AS REQUIRED TO FULFILL THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.

GENERAL MECHANICAL DEMOLITION NOTES:

- CONTRACTOR SHALL ASSESS EXISTING EQUIPMENT, DUCTING LAYOUT, PIPING LAYOUT, CONTROLS, CONDUITS, SUPPORTS, AND ALL THE WORK INVOLVED TO DEMOLISH EXISTING EQUIPMENT, DUCTING, AND PIPING TO THE EXTENT AS REQUIRED AND SHOWN ON PLANS.
- EXISTING DUCTWORK AND PIPING SHOWN TO BE DEMOLISHED SHALL BE DEMOLISHED AS SHOWN ON THE FLOOR PLANS, OR AS REQUIRED TO DEMOLISH EXISTING EQUIPMENT AND/OR INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. ALL DEMOLISHED BRANCH PIPING SHALL BE DEMOLISHED BACK TO THE EXISTING TO REMAIN SYSTEM TO PREVENT ANY DEAD LEGS IN THE SYSTEM.
- ALL EQUIPMENT AND DEVICES CALLED TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER TO CONFIRM IF THEY WILL REQUIRE THESE ITEMS TO BE SALVAGED, IF THE CONTR. IS NOT DIRECTED TO SALVAGE SAID ITEMS THEY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF-SITE.
- THE CONTRACTOR SHALL PERFORM PENETRATING SCANS OF ALL CONCRETE WALL/FLOOR/CEILING PENETRATIONS AND REPORT THE FINDINGS TO THE OWNER AND DESIGN TEAM PRIOR TO ANY DEMOLITION COMMENCING.

GENERAL MECHANICAL NEW WORK NOTES:

- THE CONTRACTOR SHALL PROVIDE IDENTIFICATION FOR ALL NEW EQUIPMENT PIPING, DUCT AND CONTROL DEVICES TO MATCH EXISTING TYPE, LOCATION, AND SIZE. WHERE THERE ARE NO EXISTING TYPES TO MATCH, PROVIDE IDENTIFICATION PER SPEC'S.
- ALL EXISTING WALL/FLOOR/ROOF PENETRATIONS WHERE DEMOLISHED DUCTWORK OR PIPING PASSED THROUGH AND NEW DUCTWORK OR PIPING IS NOT TO BE INSTALLED IN THE SAME LOCATION, SHALL BE INFILLED BY CONSTRUCTION MATCHING THE EXISTING AND IN A MANNER AS TO MAINTAIN ALL EXISTING AND NEW FIRE/SMOKE RATINGS AND WARRANTIES.
- ALL SERVICES WHICH WERE DEMOLISHED AND CAPPED, SHALL BE CAPPED USING THE SAME MATERIALS AND INSTALLATION METHODS OF EACH SYSTEM INSTALLED. ALL INSULATION SHALL BE MADE WHOLE WITH MATERIALS MATCHING THE EXISTING, IN A NEAT AND ORDERLY FASHION WITH ALL JOINTS SEALED.

BID SET	08/26/2024	DESIGN DEVELOPMENT	01/26/2024
CONSTRUCTION DOCUMENTS	07/31/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT-REVISED	02/27/2024		

RECORD REVISIONS
Construction Document - August 26, 2024



SIGNATURE DATE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

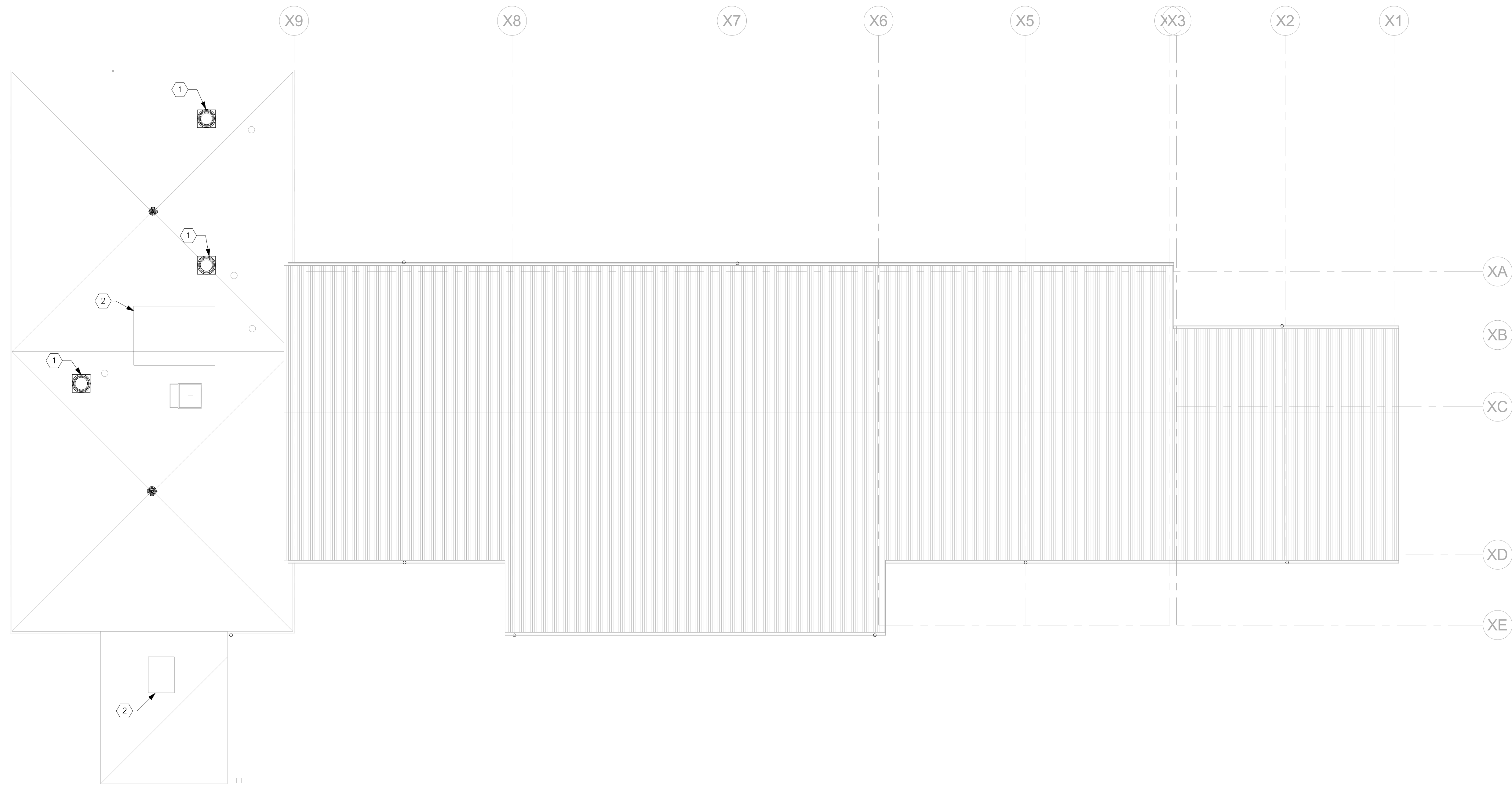
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

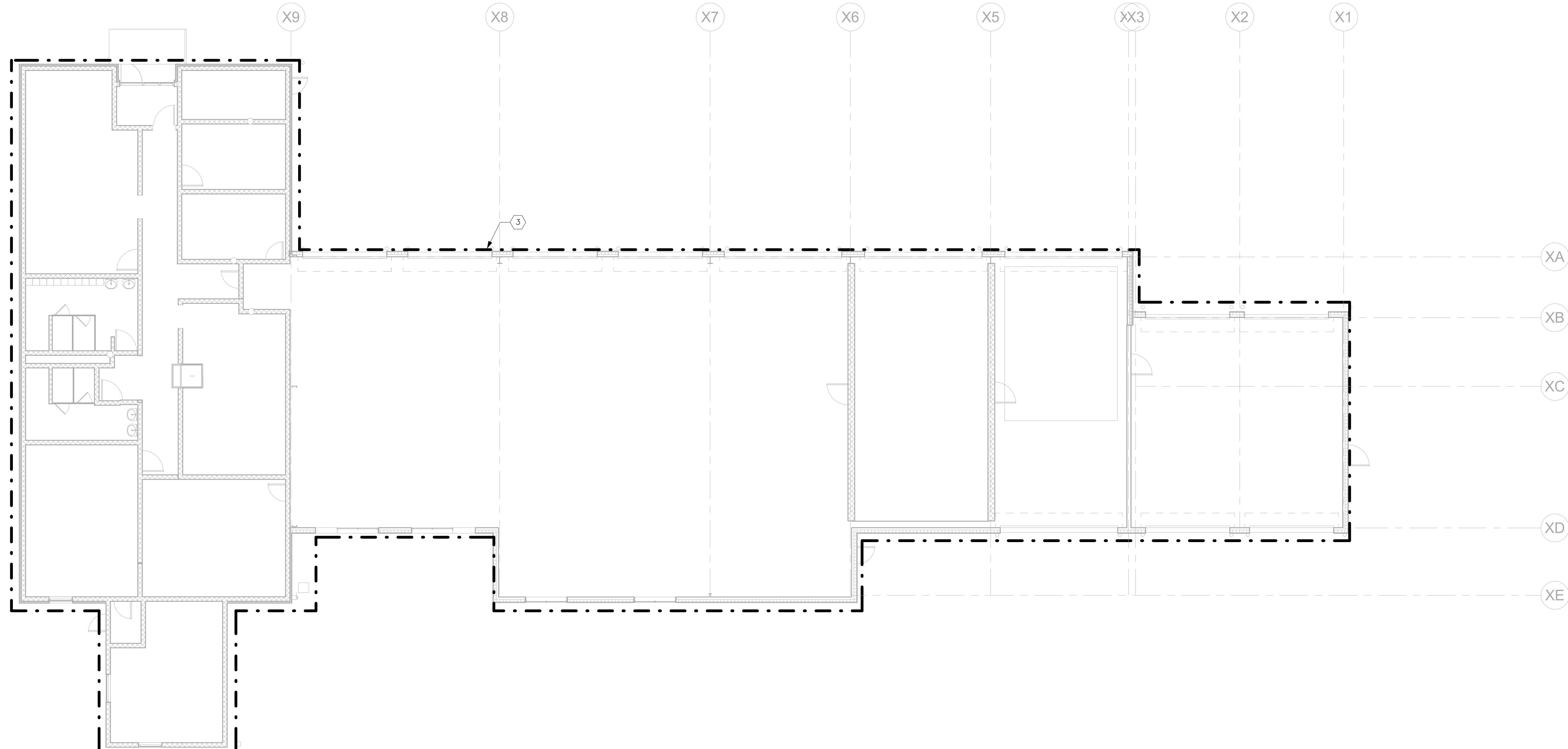
LEGENDS AND ABBREVIATIONS

VERIFY SCALE	DRAWN BY		DATE	DRAWING No.
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWINGS.	J. LUTCHENDORF	08/26/2024		H-000
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.	CHECKED BY	SCALE		
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	J. LUTCHENDORF	AS NOTED		



- DEMOLITION NOTES:**
- ① DEMOLISH EXISTING EF AND ALL ASSOCIATED DUCTWORK, ROOF CURBS, ELECTRICAL AND ALL ANCILLARY DEVICES.
 - ② DEMOLISH EXISTING RTU AND ALL ASSOCIATED DUCTWORK, PIPING, ROOF CURBS, ELECTRICAL AND ALL ANCILLARY DEVICES.
 - ③ ALL MECHANICAL DEVICES WITHIN THIS AREA ARE TO BE DEMOLISHED IN THEIR ENTIRETY. THIS TO INCLUDE BY NOT LIMITED TO BUCKWORK, AIR DEVICES, MECHANICAL EQUIPMENT CONTROLS, WIRING, AND ADDITIONAL APPARATUS.

① Mechanical Roof Plan Demolition
1/8" = 1'-0"



② Mechanical Floor Plan Demolition
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

RECORD REVISIONS
Construction Document - August 26, 2024

SIGNATURE _____ DATE _____

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

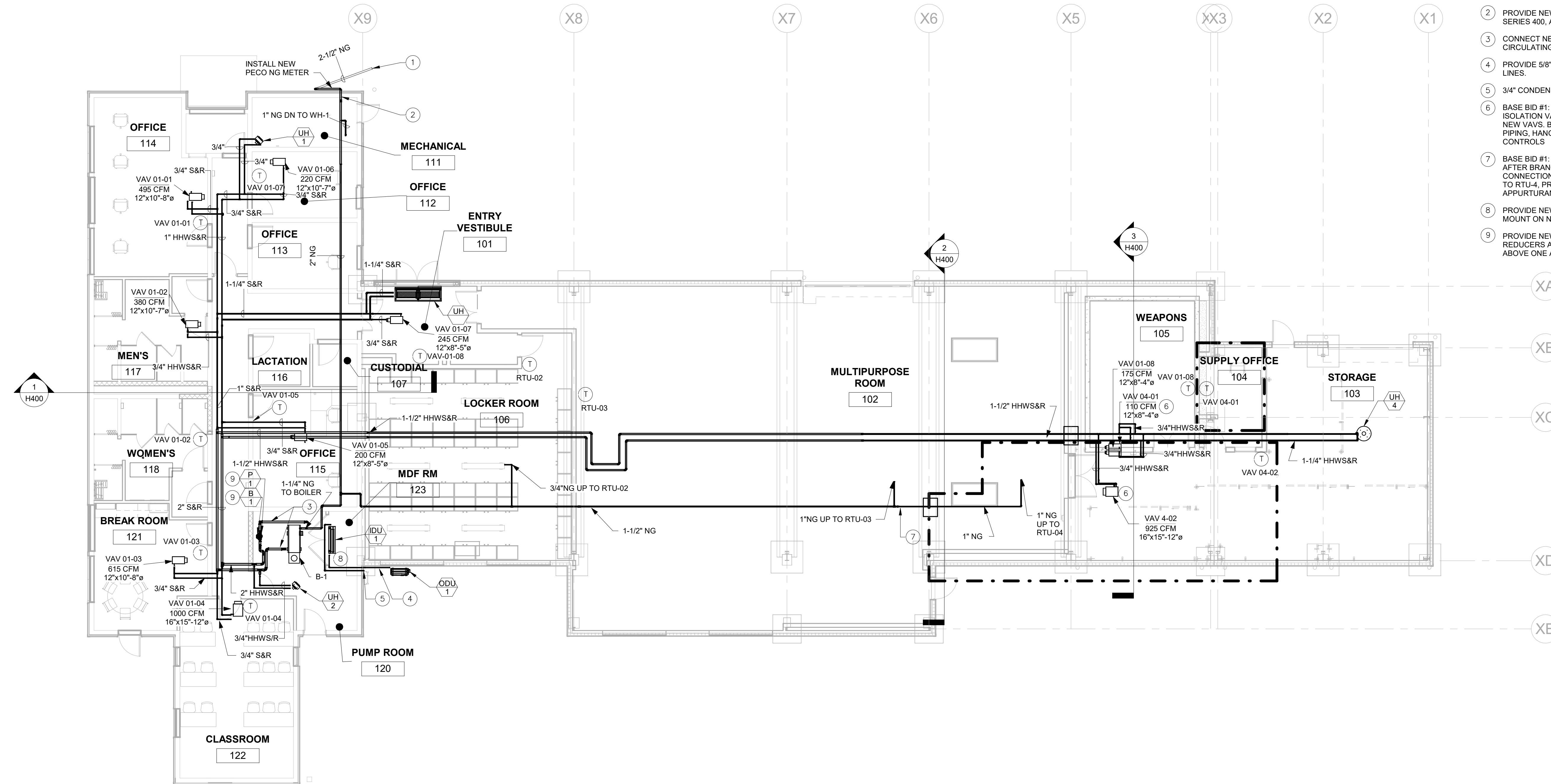
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

MECHANICAL DEMOLITION PLANS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY ATL	DATE 08/26/24	DRAWING No. HD-100
CHECKED BY JBL	SCALE	



- NEW WORK NOTES:
- 2-1/2" NG UNDERGROUND TO CONNECTION TO EXISTING PECO NG MAIN. REFER TO SITE PLANS.
 - PROVIDE NEW BUILDING NG METER, VALUMASS FLOWMETER SERIES 400, AND TIE INTO NEW BAS.
 - CONNECT NEW 2" HHWS&R PIPING TO NEW BOILER B-1 AND CIRCULATING PUMPS
 - PROVIDE 5/8" LIQUID AND 1/2" SUCTION REFRIGERATION LINES.
 - 3/4" CONDENSATE DOWN TO 18" ABOVE GRADE.
 - BASE BID #1: PROVIDE HHWS&R BRANCH PIPING AND ISOLATION VALVES WITH CAPS FOR FUTURE EXTENSION TO NEW VAVS. BASE BID #2: PROVIDE NEW VAV, BRANCH PIPING, HANGERS, THERMOSTATS, AND ALL ASSOCIATED CONTROLS
 - BASE BID #1: NG PIPING IS TO BE TRANSITIONED TO 1" AFTER BRANCH TO RTU-3, AND CAPPED FOR FUTURE CONNECTION. BASE BID #2: EXTEND 1" NG BRANCH PIPING TO RTU-4, PROVIDING ALL HANGERS AND ASSOCIATED APPURTURANCES.
 - PROVIDE NEW BOILER B-1 AND ALL ANCILLARY DEVICES. MOUNT ON NEW 4" HIGH HOUSEKEEPING PAD.
 - PROVIDE NEW INLINE PUMPS, INCLUDE HANGERS, REDUCERS AND ALL ANCILLARY DEVICES. INSTALL UNITS ABOVE ONE ANOTHER ON NEW HOUSEKEEPING PAD.

1 Mechanical Floor Piping Plan New Work
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

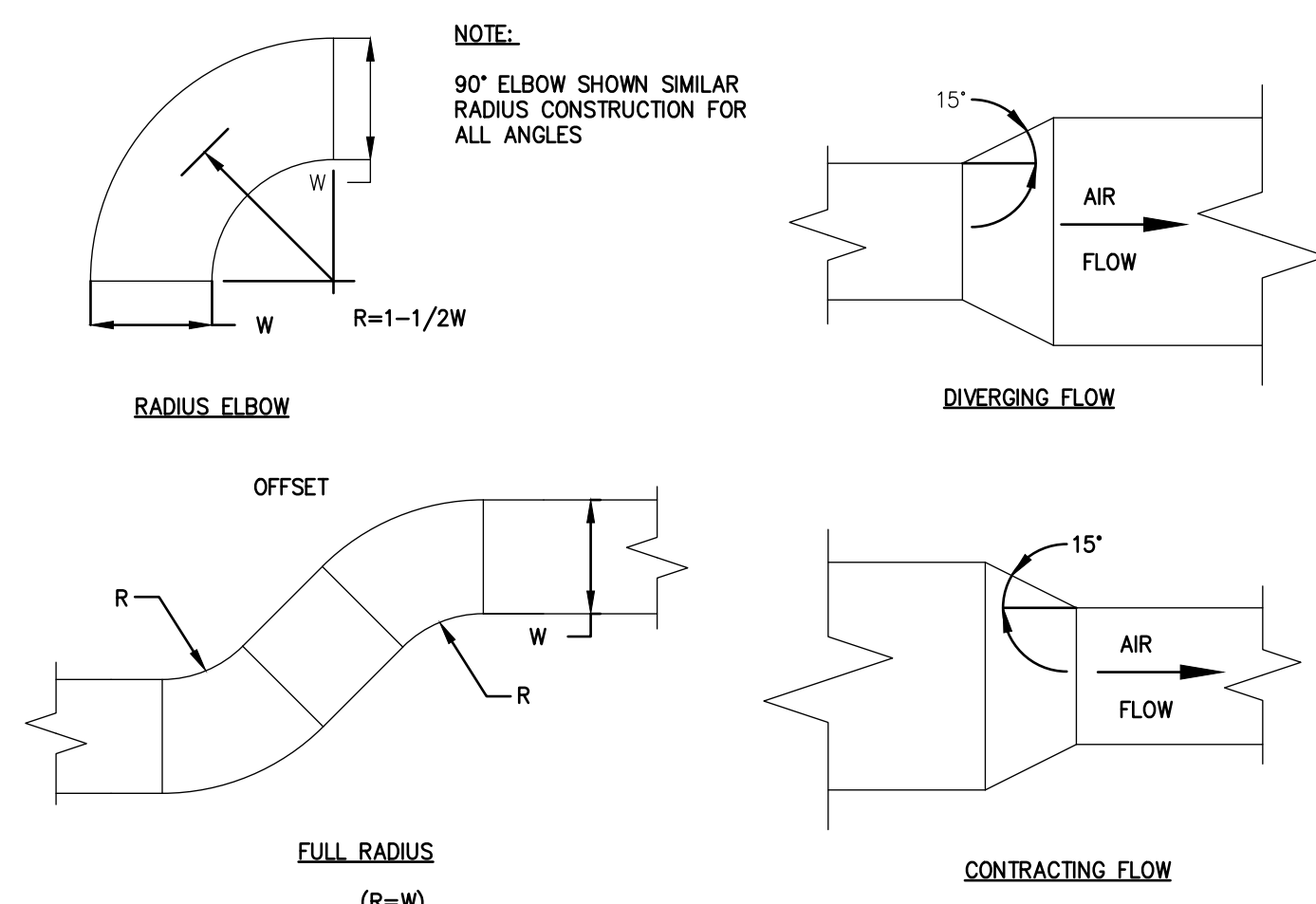
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

MECHANICAL PIPING NEW WORK

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

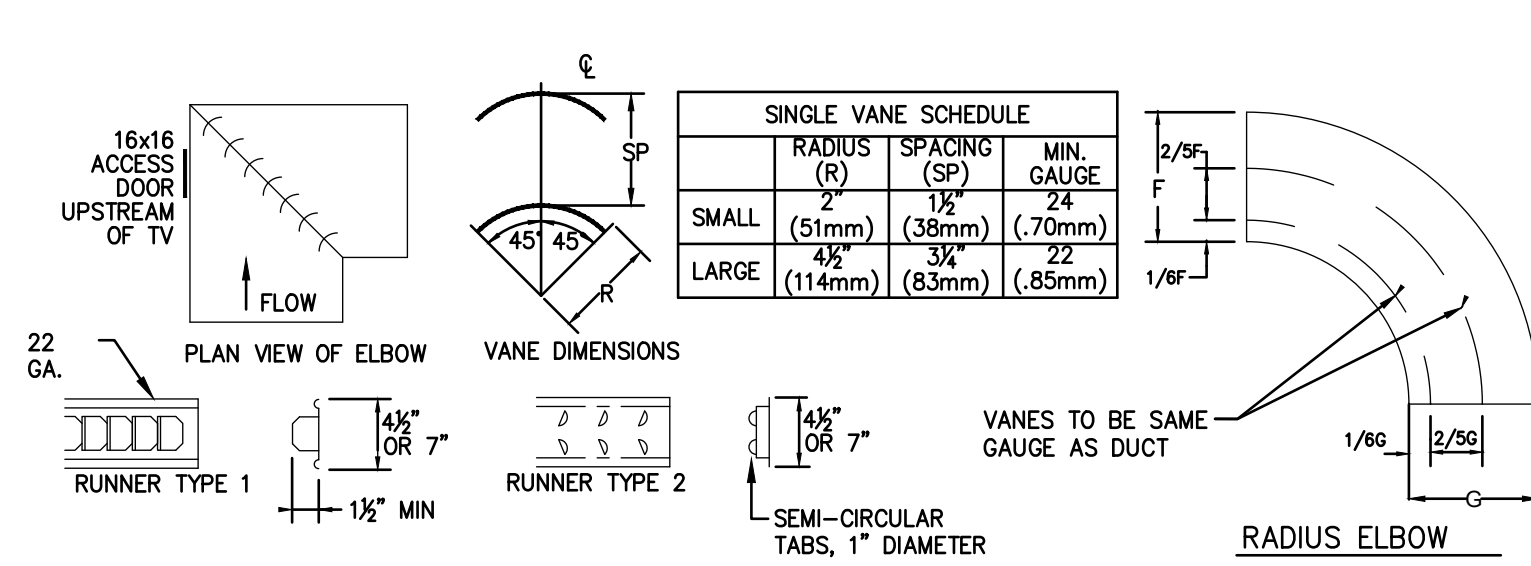
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY JBL	DATE 08/26/24	DRAWING No. H- 101
CHECKED BY JBL	SCALE	



1 DUCT TRANSITION, OFFSET, & ELBOW DETAILS

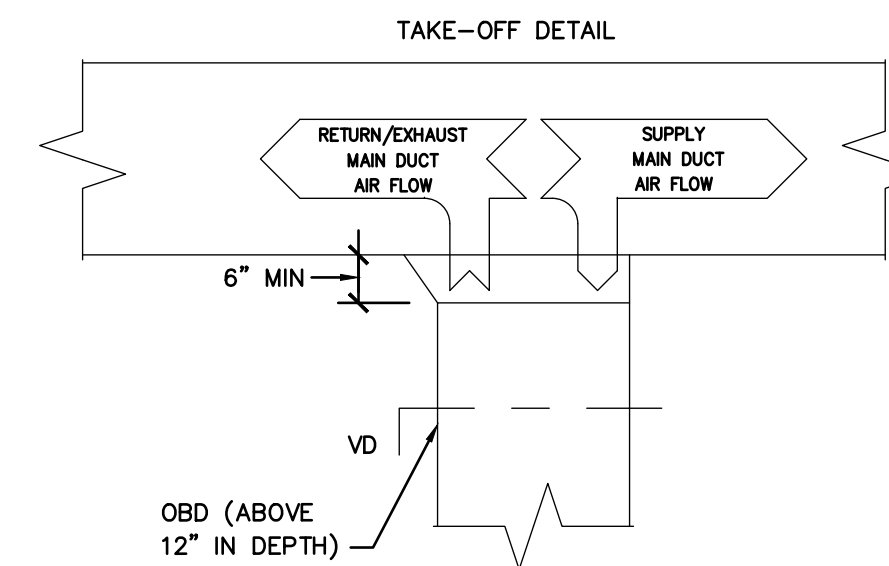
H500 SCALE: NOT TO SCALE



- NOTES:
- THIS LAYOUT PRESUMES AN ELBOW WITH EQUAL INLET & OUTLET SIZES. CHANGE ELBOWS (E WITH A SIZE CHANGE) SHALL BE INDIVIDUALLY DETAILED BY SHEET METAL CONTRACTOR, INDICATING MODIFIED OR CUSTOM RUNNER (RAL) & VANE REQUIRED TO ENSURE VANES ARE PERPENDICULAR TO AIRFLOW.
 - MAX UNSUPPORTED VANE LENGTH SHALL NOT EXCEED 6" FOR LARGE OR SMALL SINGLE VANE. INSTALL LONGER LENGTHS IN MULTIPLE SECTIONS.
 - VANES SHALL BE SECURELY FASTENED TO DUCT WITH SCREWS, BOLTS, OR WELDS.
 - RUNNERS SHALL BE SECURELY FASTENED TO DUCT WITH SCREWS, BOLTS, OR WELDS.

2 TURNING VANES DETAIL

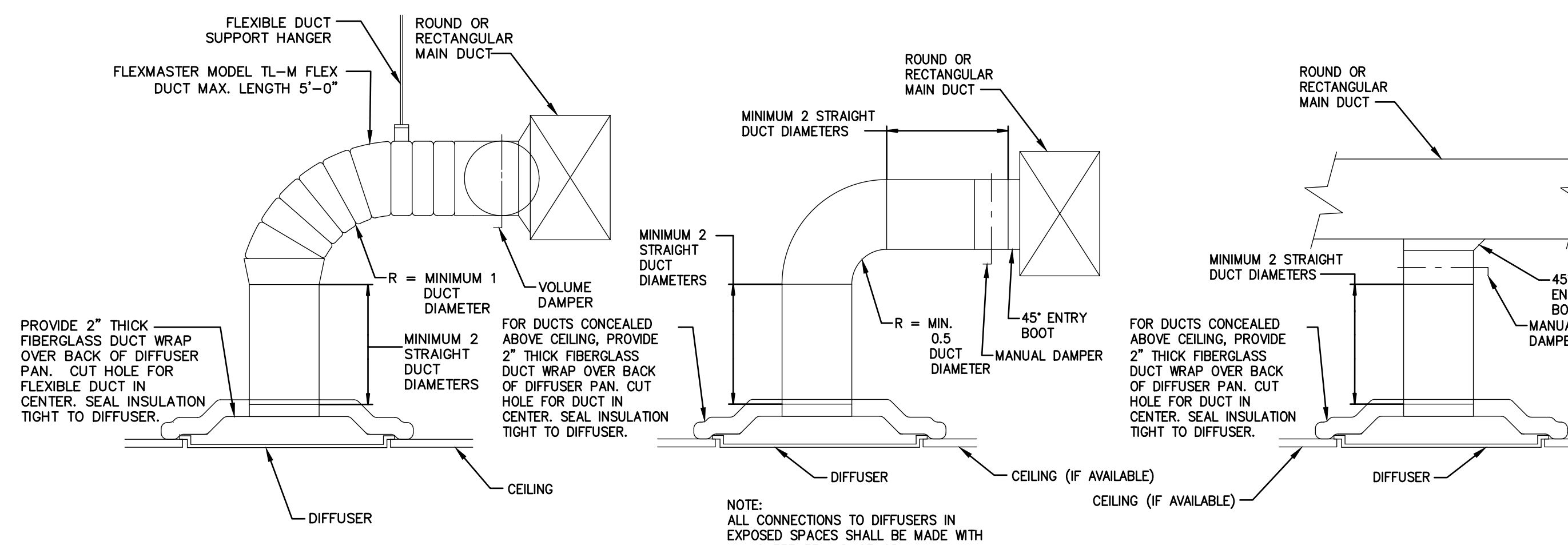
H500 SCALE: NOT TO SCALE



THIS APPLIES TO SINGLE TAKEOFFS TO DIFFUSER AS WELL AS BRANCH TAKEOFFS. IT ALSO APPLIES TO TAKEOFFS IN THE HORIZONTAL AS WELL AS VERTICAL DIRECTION.

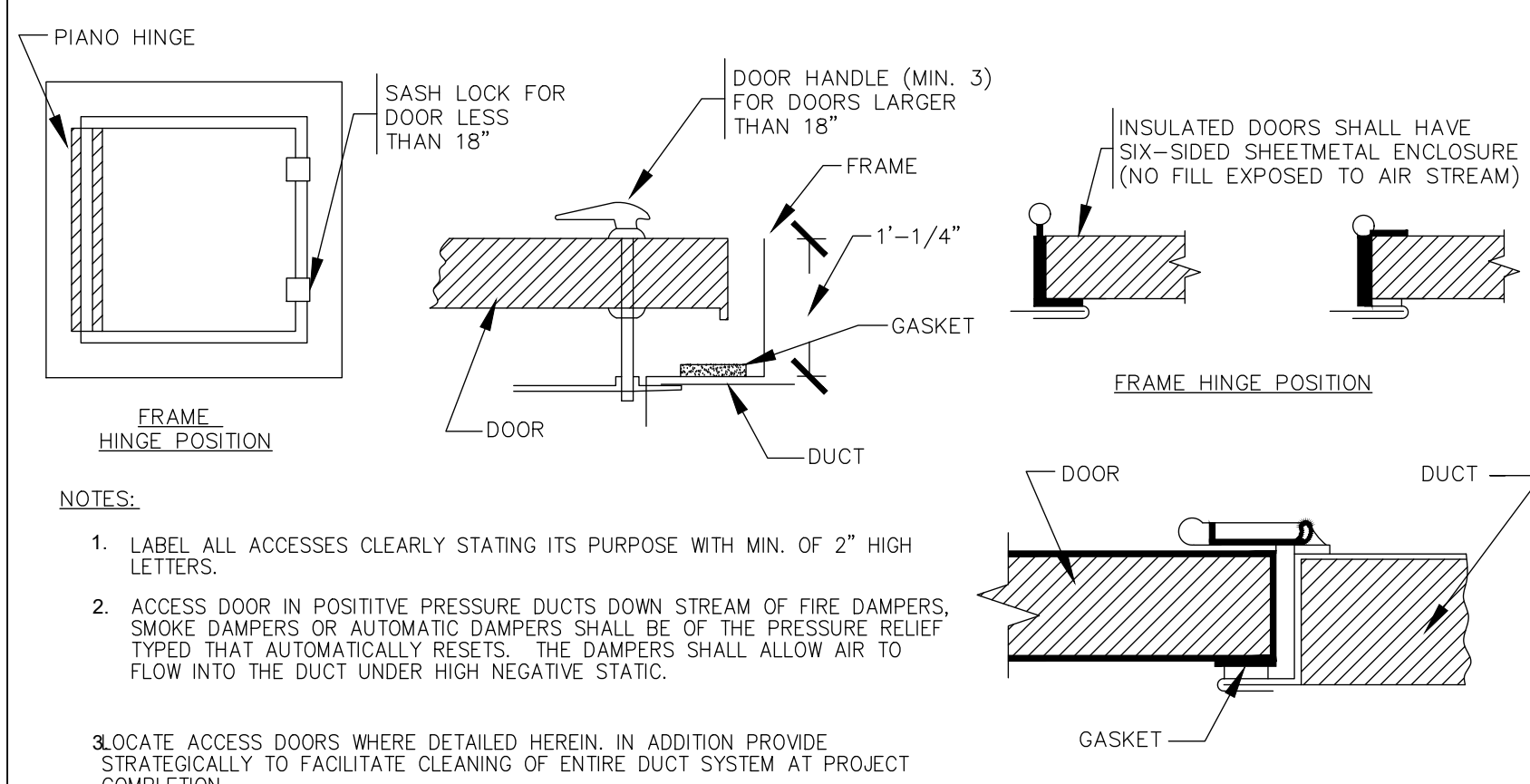
3 DUCT TAKEOFF DETAIL

H500 SCALE: NOT TO SCALE



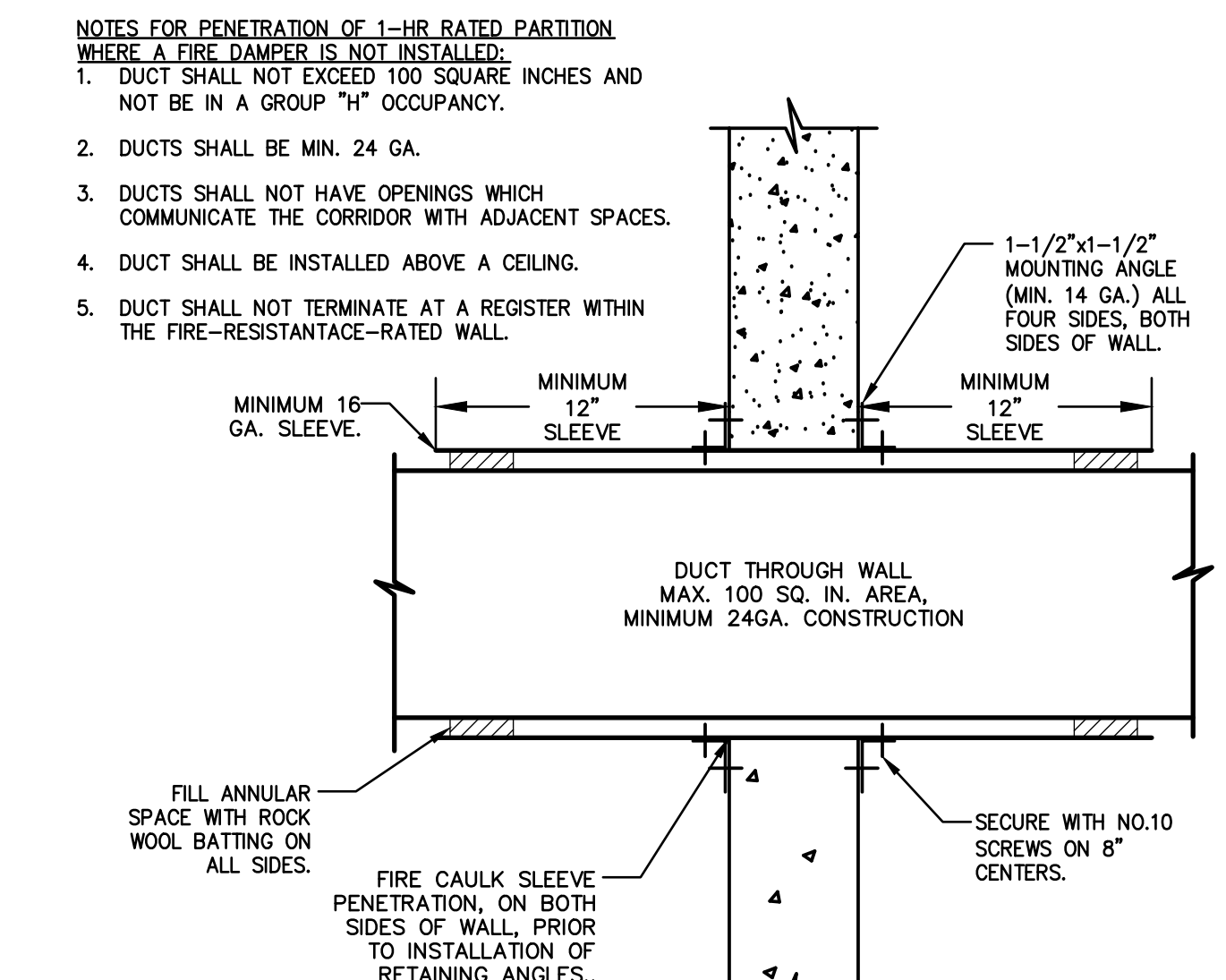
4 DIFFUSER TAKEOFF DETAILS

H500 NOT TO SCALE



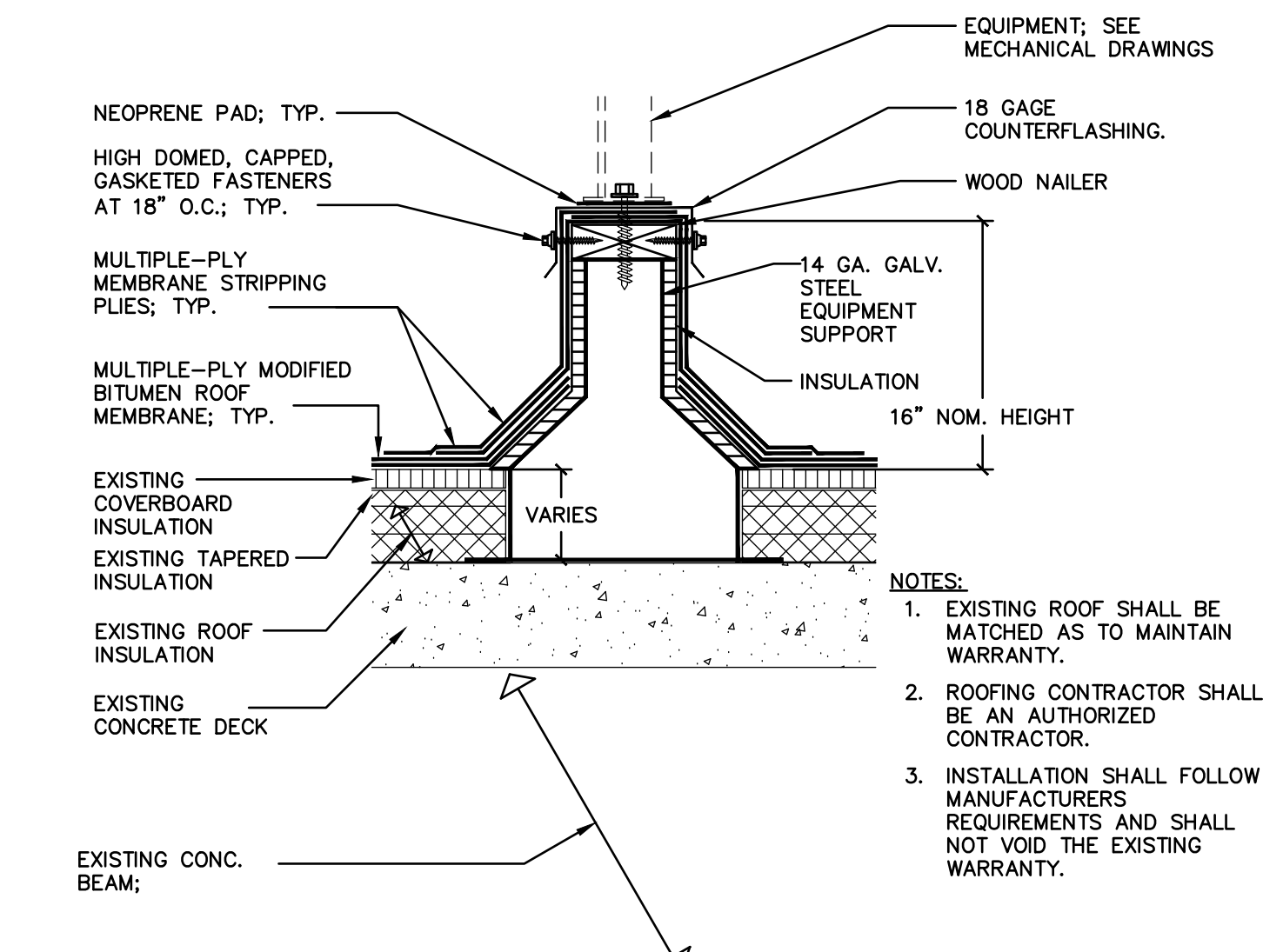
5 ACCESS DOOR DETAIL

H500 SCALE: NOT TO SCALE



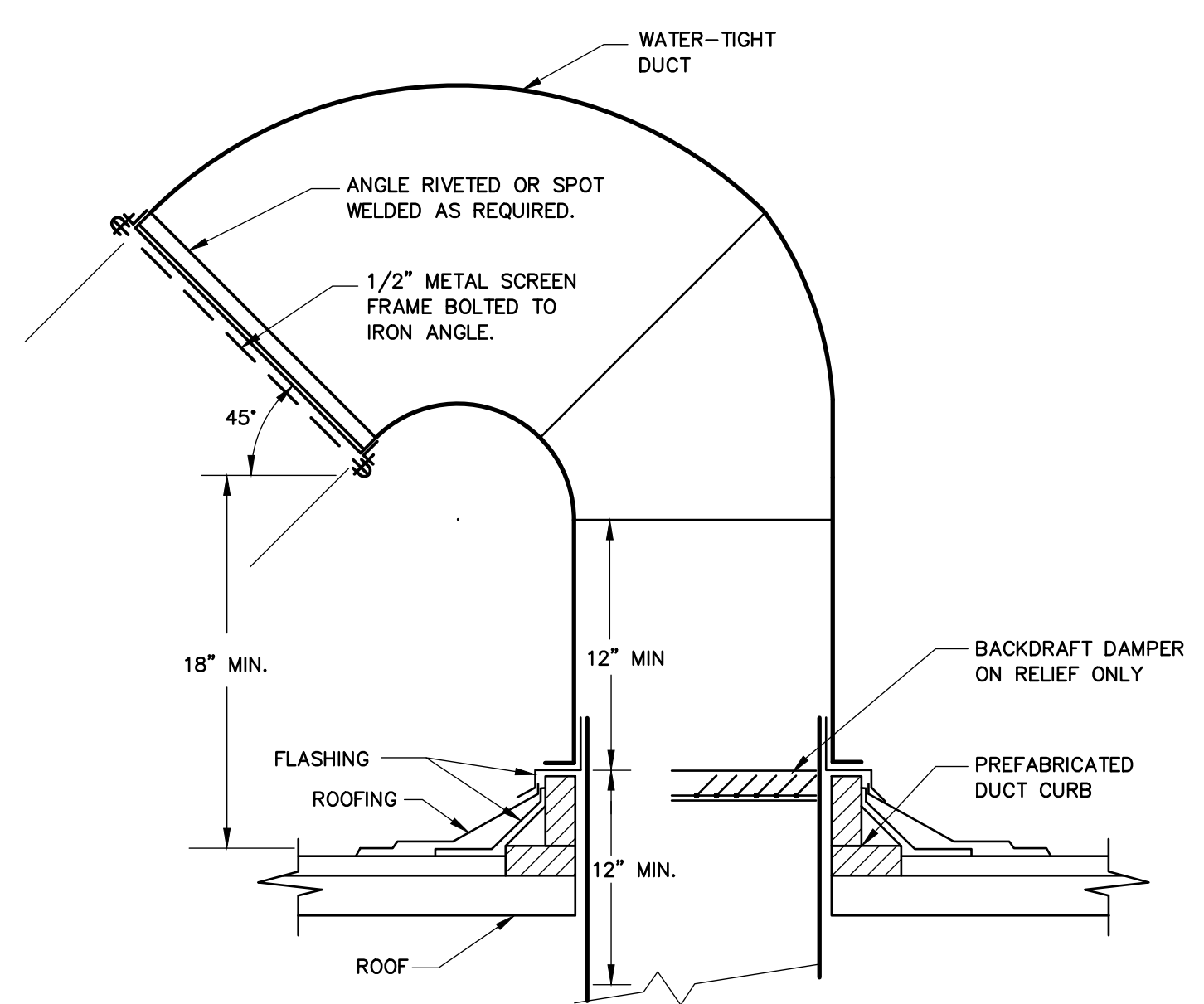
6 1HR FIRE RATED PENETRATION DETAIL

H500 SCALE: NOT TO SCALE



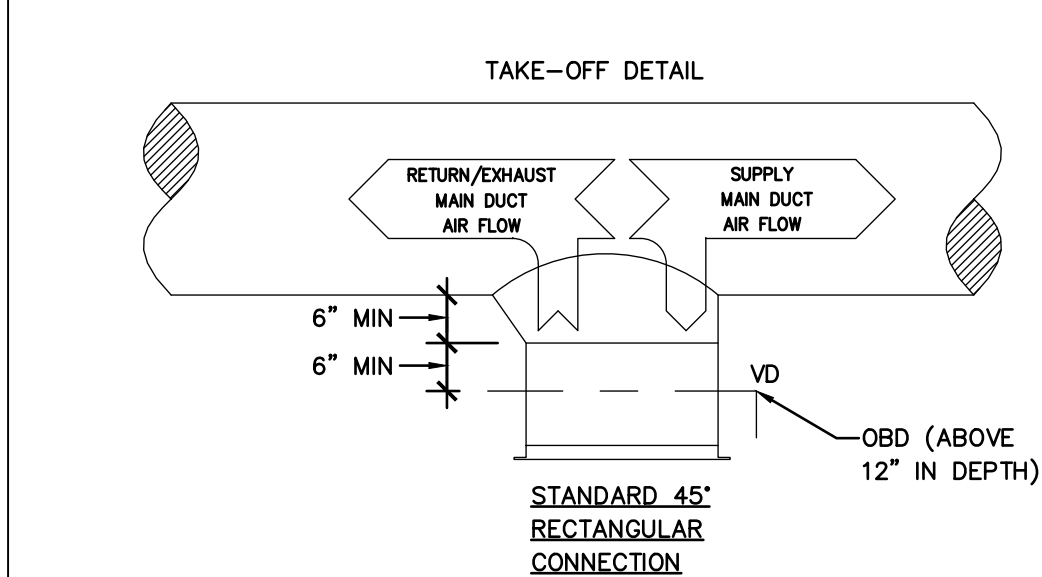
7 EQUIPMENT RAIL DETAIL

H500 SCALE: NOT TO SCALE



8 RELIEF AND INTAKE GOOSENECK DETAIL

H500 SCALE: NOT TO SCALE



THIS APPLIES TO SINGLE TAKEOFFS TO GRDs IN EXPOSED LOCATIONS.

9 GRD TO ROUND DUCT TAKEOFF DETAIL

H500 SCALE: NOT TO SCALE

REV SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	
07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO INC.
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

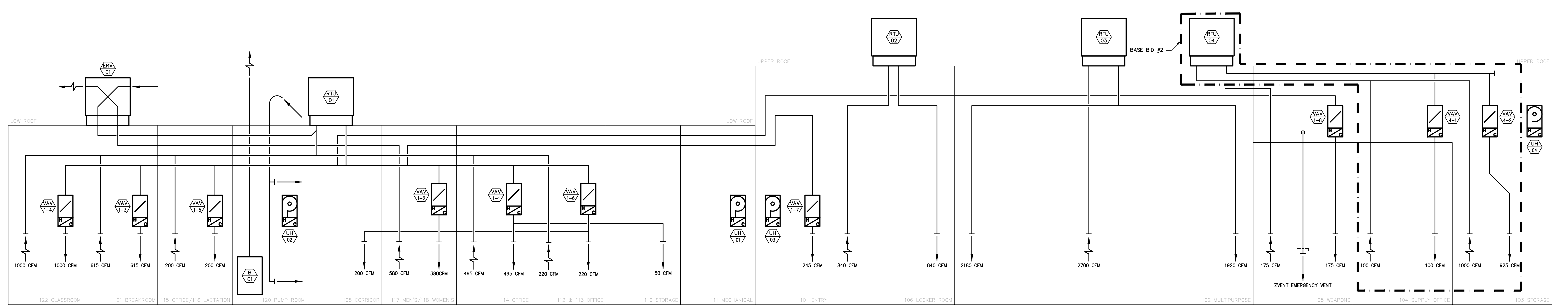
DGS PROJECT NO:
DGS C-0961-0044 PHASE 01

VERIFY SCALE
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

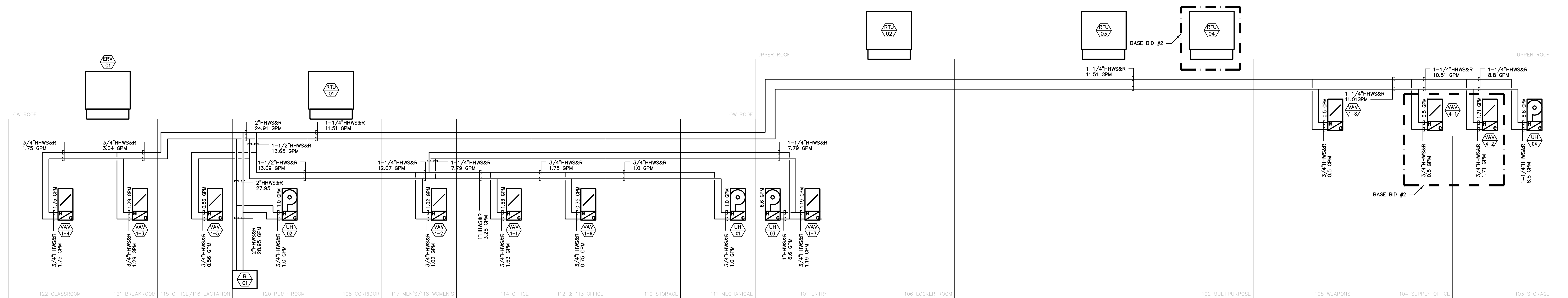
DETAILS - AIR

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

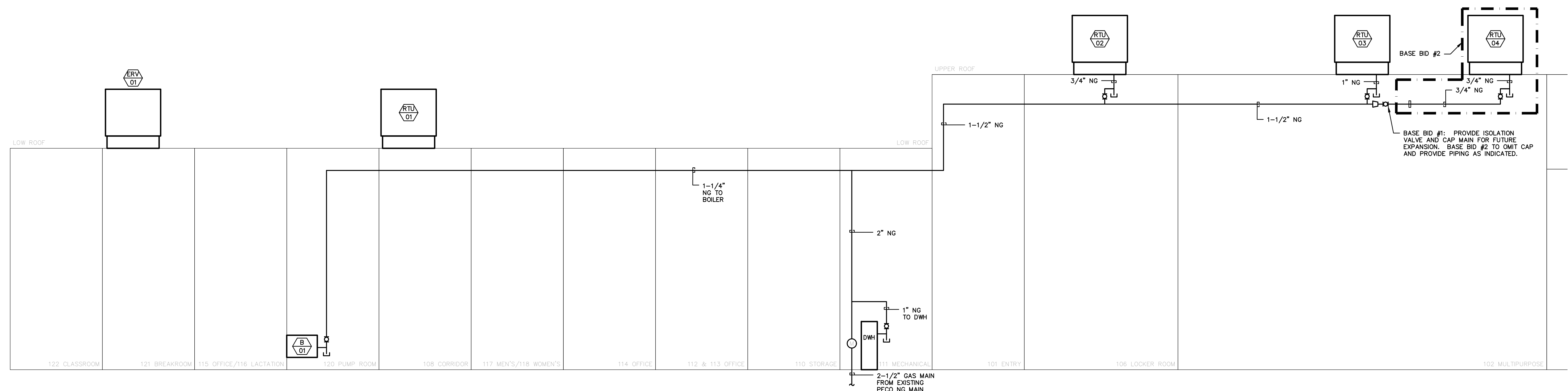
DRAWN BY: J. LUTCHENDORF
DATE: 08/26/2024
CHECKED BY: J. LUTCHENDORF
SCALE: AS NOTED
DRAWING NO.: H-500



1 AIRFLOW DIAGRAM - NEW
H-600 SCALE: NTS



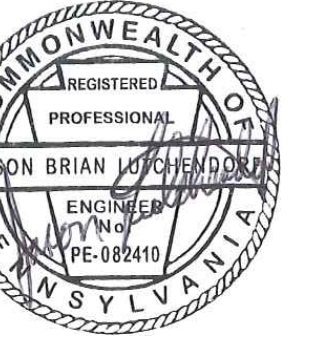
2 HYDRONIC DIAGRAM - NEW
H-600 SCALE: NTS



3 NATURAL GAS DIAGRAM - NEW
H-600 SCALE: NTS

BID SET 05/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY J. LUTCHENDORF	DATE 08/26/2024	DRAWING No. H-600
CHECKED BY J. LUTCHENDORF	SCALE AS NOTED	

ROOFTOP UNIT SCHEDULE table with columns for RTU-01 through RTU-04 (BASE BID #2) and rows for UNIT, ENERGY RECOVERY, COOLING, HEATING (FURNACE), FILTER, FANS, and OUTDOOR. Includes sub-sections for NEW TAG, AREA SERVED, SERVICE LOCATION, and RETURN/EXHAUST FAN TAG.

MINI-SPLIT EQUIPMENT SCHEDULE table with columns for TAG, AREA SERVED, and IDU-1 & ODU-1. Includes sub-sections for OUTDOOR UNIT PHYSICAL DATA, INDOOR UNIT PHYSICAL DATA, SYSTEM PERFORMANCE, and SPACE COOLING LOAD.

PUMP SCHEDULE table with columns for TAG, SYSTEM, AREA LOCATED, OPERATION, GPM, FT HD, % EFFICIENCY, NPSH (ft), IMPELLER DIA. (in), DRIVE, VOLTS, PHASE, DUTY POINT RPM, DUTY POINT BHP, DUTY POINT HZ, DRIVE, and MOTOR HP.

GRD SCHEDULE table with columns for TAG, AREA LOCATED, CD-1 through CD-4, SG-1 through SG-2, RG-1 through RG-2, EG-1 through EG-2, MSSG-1, and MSRG-1. Includes sub-sections for EQUIPMENT INFORMATION and FINISH.

UNIT HEATER SCHEDULE table with columns for TAG, AREA LOCATED, UH-1 through UH-4, and UH-5. Includes sub-sections for Performance, Coil, Blowers, and EQUIPMENT INFORMATION.

MECHANICAL MATERIAL SCHEDULE table with columns for SYSTEM, DOMESTIC WATER (ABV. GRD.), GLYCOL HEATING HOT WATER, COOLING COIL CONDENSATE, and COND. Includes sub-sections for PIPING, JOINTS, FITTINGS, INSULATION, and VALVES.

ENERGY RECOVERY VENTILATOR SCHEDULE table with columns for Tag, Area Served, Area Located, CFM, ESP (in Wc), TSP (in Wc), Quantity (#), Power Consumed (W), ESP (in Wc), TSP (in Wc), Quantity (#), Power Consumed (W), Motor Power (W), TYPE, EFFICIENCY, Face Vel. (FPM), Weight (lbs.), Length (in.), Width (in.), Height (in.), Voltage (V/Hz/Ph), FLA/MOTOR, and MOC.

EXPANSION TANK SCHEDULE table with columns for TAG, SYSTEM, AREA LOCATED, OPERATION, Approx. System Volume (gal.), Required Expansion Volume (gal.), Low Fill Temp. (°F), High Temp. (°F), Initial Tank Press. (psig), Tank Acceptance Vol. (gal.), Pipe Size to Tank (in.), Diameter (in.), Height (in.), and Weight (lbs.).

BOILER SCHEDULE table with columns for Tag, Area Served, Area Located, INPUT (MBH), MIN. INPUT (MBH), WATER GROSS OUTPUT (MBH), WATER NET RATING (MBH), BOILER H.P., WATER THERMAL EFFICIENCY, Weight (lbs.), Length (in.), Width (in.), Height (in.), WATER CONTENT (GAL), Chimney Breaching (in.), Fuel, Fuel Press. (in. W.C.), Voltage (V/Hz/Ph), FLA, MCA, and MOC.

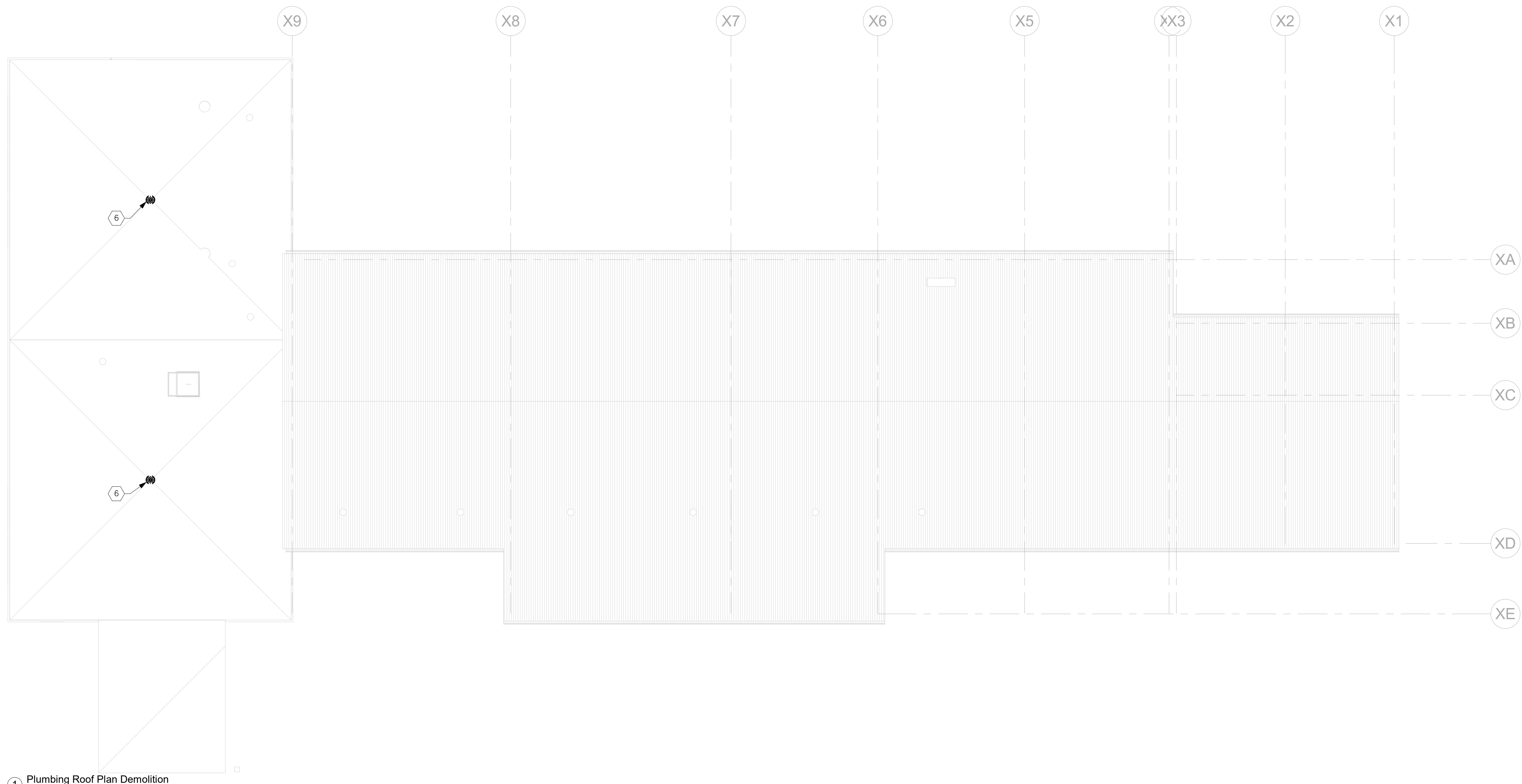
VAV SCHEDULE table with columns for TAG, VAV/1-01 through VAV/4-02, and rows for INLET (ø), APD, PEAK AIRFLOW, MIN. AIRFLOW, ORIENTATION, WEIGHT, COIL CAPACITY, AIR, and MEDIUM.

GRD SCHEDULE table with columns for TAG, AREA LOCATED, CD-1 through CD-4, SG-1 through SG-2, RG-1 through RG-2, EG-1 through EG-2, MSSG-1, and MSRG-1. Includes sub-sections for EQUIPMENT INFORMATION and FINISH.

UNIT HEATER SCHEDULE table with columns for TAG, AREA LOCATED, UH-1 through UH-4, and UH-5. Includes sub-sections for Performance, Coil, Blowers, and EQUIPMENT INFORMATION.

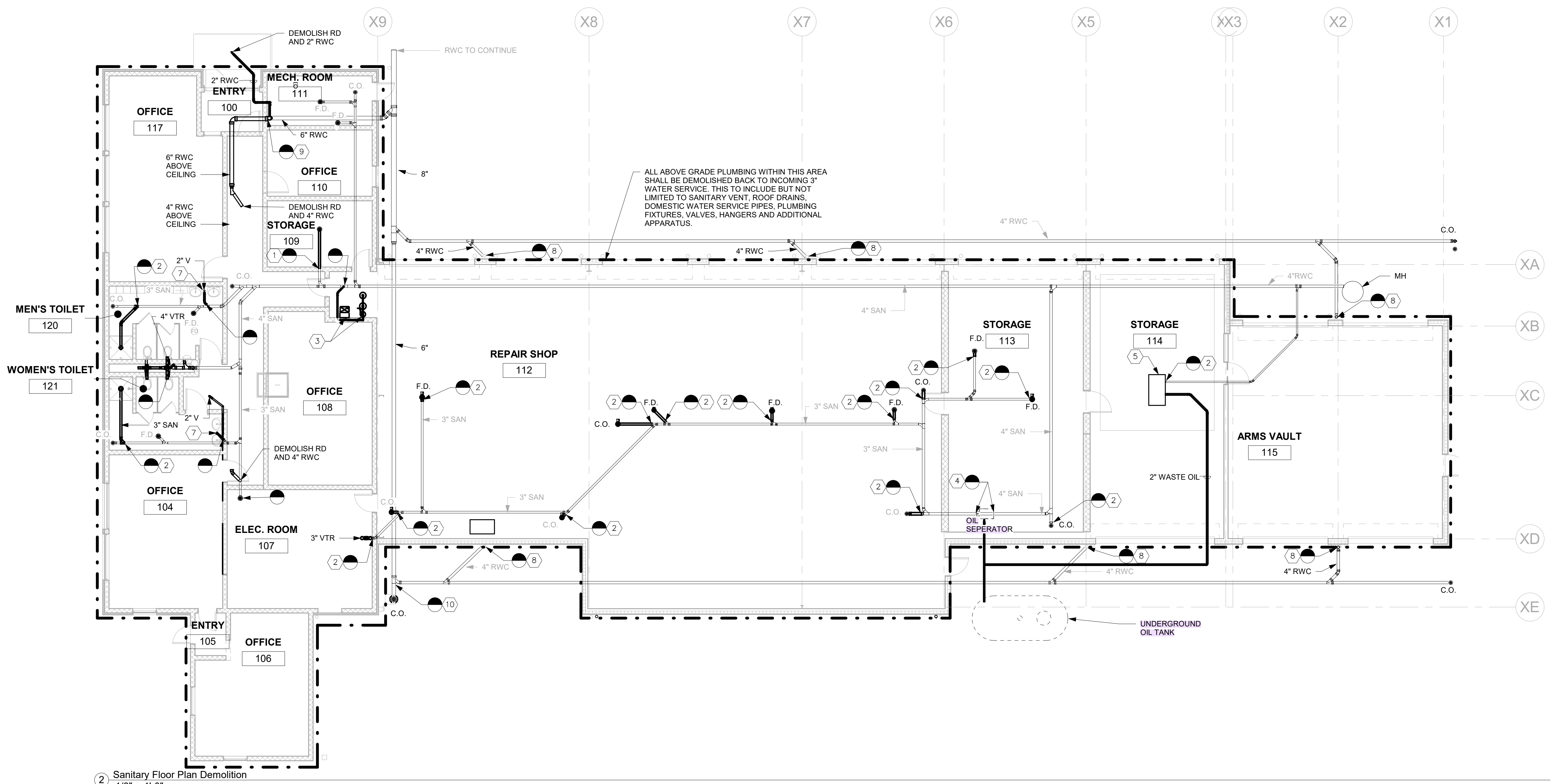
ENERGY RECOVERY VENTILATOR SCHEDULE table with columns for Tag, Area Served, Area Located, CFM, ESP (in Wc), TSP (in Wc), Quantity (#), Power Consumed (W), ESP (in Wc), TSP (in Wc), Quantity (#), Power Consumed (W), Motor Power (W), TYPE, EFFICIENCY, Face Vel. (FPM), Weight (lbs.), Length (in.), Width (in.), Height (in.), Voltage (V/Hz/Ph), FLA/MOTOR, and MOC.

Professional Engineer stamp for COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF GENERAL SERVICES, HARRISBURG, PENNSYLVANIA. Includes signature of J. LUTCHENDORF and date 08/26/2024.



1 Plumbing Roof Plan Demolition
1/8" = 1'-0"

- GENERAL NOTE:**
- ALL SLAB DEMOLITION SHALL BE BY THE 1 CONTRACTOR AND FILL REMOVAL AND PIPING DEMOLITION BY THE 3 CONTRACTOR.
- DEMOLITION NOTES:**
- 1 ACID RESISTANT FLOOR DRAIN AND ACID NEUTRALIZING TANK TO BE DEMOLISHED AND SANITARY LINE CAPPED BACK AT MAIN FLOOR TO BE FINISHED TO MATCH EXISTING.
 - 2 CONTRACTOR TO CUT AND CAP FLOOR DRAIN/CLEAN OUT. SEAL SANITARY MAIN AND FINISH FLOOR TO MATCH EXISTING.
 - 3 EYE WASH AND WATER COOLER TO BE DEMOLISHED. CUT SANITARY BACK TO MAIN AND CAP.
 - 4 OIL SEPARATOR AND UNDERGROUND TANK TO BE DEMOLISHED IN THEIR ENTIRETY. REPLACE SEPARATOR SECTION OF SANITARY WITH EQUIVALENT PIPE. SEDIMENT DRAIN TO BE DEMOLISHED.
 - 5 SEDIMENT DRAIN TO BE DEMOLISHED.
 - 6 ROOF DRAIN TO BE DEMOLISHED.
 - 7 TO SINKS TO BE DEMOLISHED.
 - 8 DEMOLISH EXISTING RWC AND CAST IRON BOOT BELOW GRADE AS REQUIRED TO FACILITATE INSTALLATION OF NEW EXTERIOR WALL MATERIALS AND INSTALL NEW BOOT PROUD OF THE NEW MATERIAL.
 - 9 DEMOLISH EXISTING RWC BACK TO ABOVE FINISHED FLOOR AND READY FOR NEW CONNECTION AND TRANSITION TO NEW RWC.
 - 10 DEMOLISH EXISTING C.O. AND READY FOR PIPING FOR EXTENSION AS INDICATED ON NEW WORK PLANS.



2 Sanitary Floor Plan Demolition
1/8" = 1'-0"

REVISED SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

RECORD REVISIONS
Construction Document - August 26, 2024

SIGNATURE _____ DATE _____

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SANITARY DEMOLITION PLANS

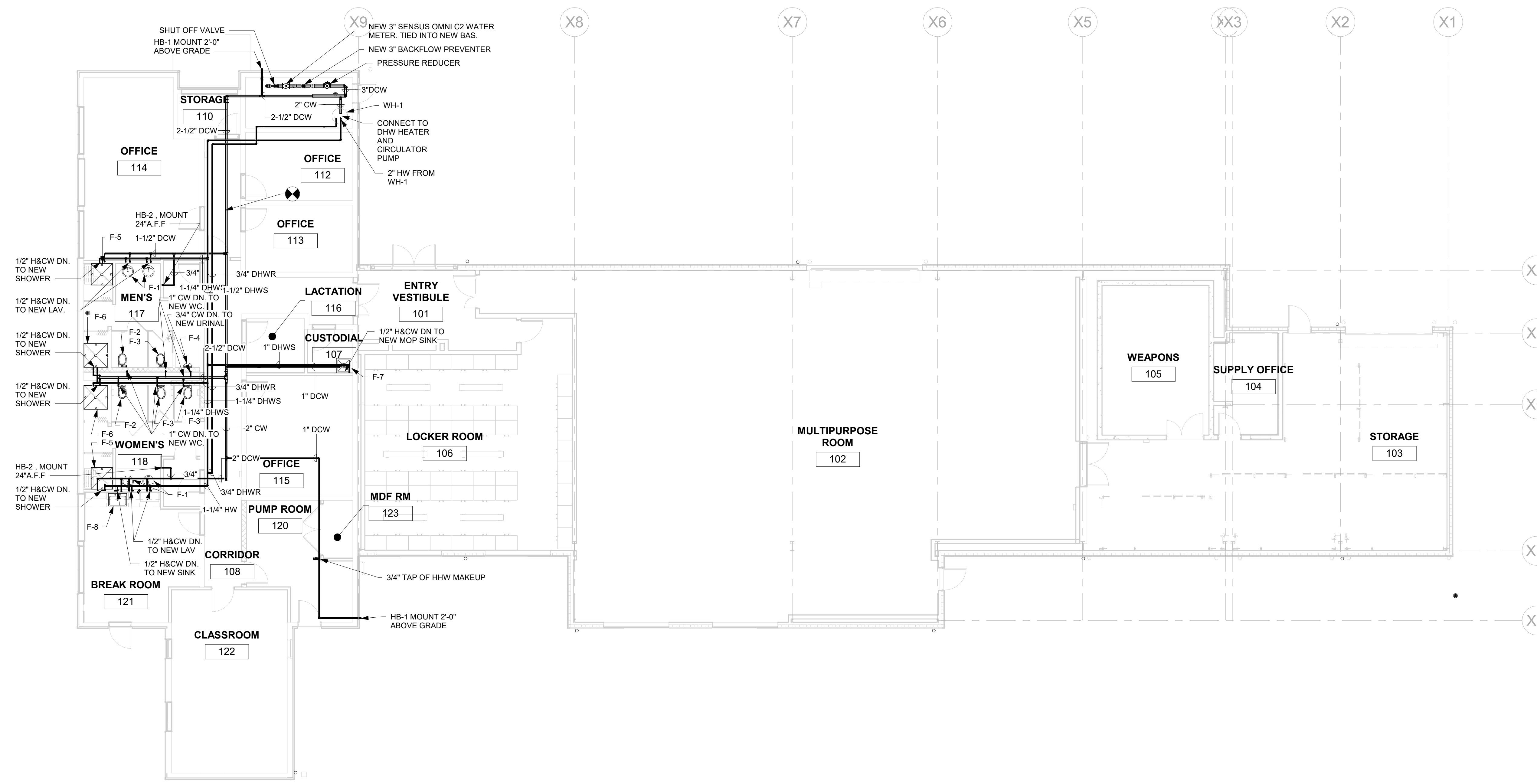
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 ————— 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY ATL	DATE 08/26/24	DRAWING No. PD-100
CHECKED BY JBL	SCALE	



1 Plumbing Piping Floor Plan New Work
1/8" = 1'-0"

REV SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

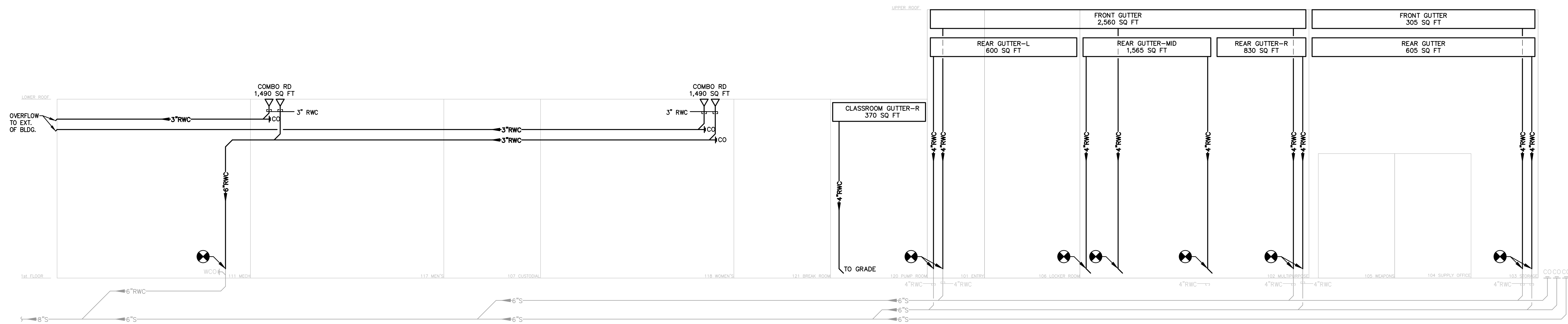
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

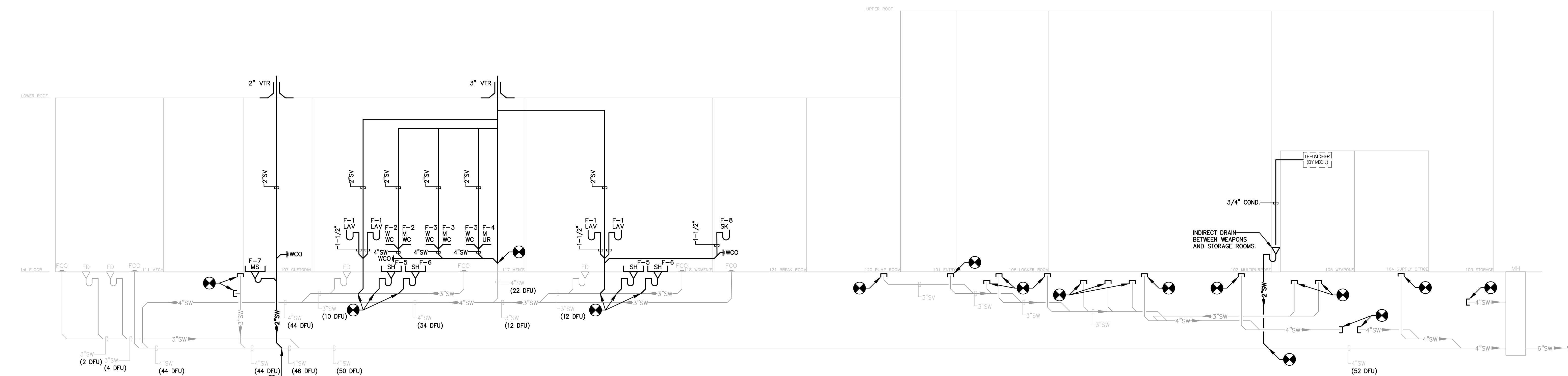
PLUMBING PIPING NEW WORK

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

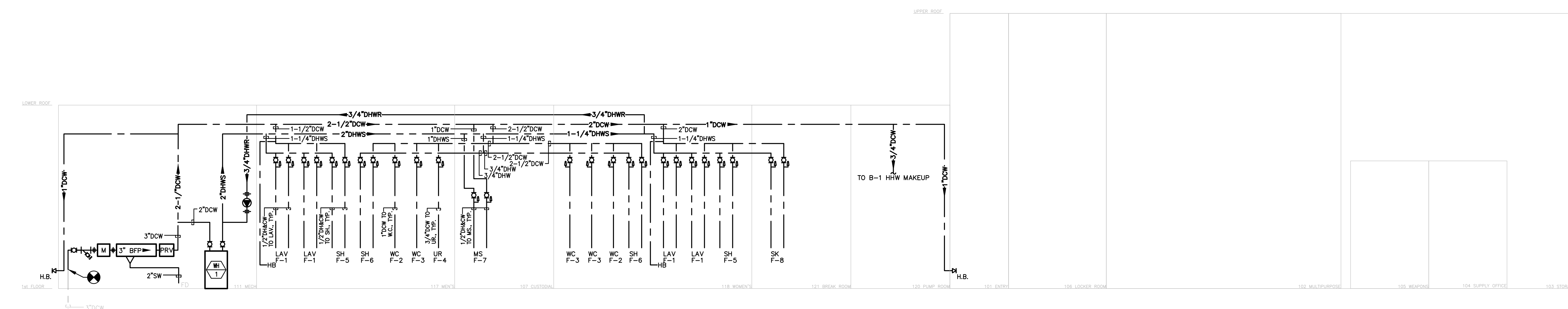
DRAWN BY ATL	DATE 08/26/24	DRAWING No. P-101
CHECKED BY JBL	SCALE	



1 PLUMBING STORM SINGLELINE - NEW
SCALE: NTS



2 PLUMBING SANITARY SINGLELINE - NEW
SCALE: NTS



3 PLUMBING WATER SINGLELINE - NEW
SCALE: NTS

BID SET	05/26/2024	DESIGN DEVELOPMENT	01/26/2024
CONSTRUCTION DOCUMENTS	07/31/2024	REVISED	
CONSTRUCTION DOCUMENTS	04/15/2024		
DESIGN DEVELOPMENT-REVISED	02/27/2024		

RECORD REVISIONS
Construction Document - August 28, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO **llc**
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

SINGLELINE DIAGRAMS

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.

0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY: J. LUTCHENDORF
DATE: 08/26/2024
CHECKED BY: J. LUTCHENDORF
SCALE: AS NOTED

DRAWING No.
P-600

LEGEND:

	EXTENT OF DEMOLITION
	POINT OF CONNECTION BETWEEN NEW WORK AND EXISTING WORK
	EXISTING WORK TO REMAIN
	NEW WORK OR EXISTING WORK TO BE DEMOLISHED
	DEMOLITION NOTE
	NEW WORK NOTE
	ROOM NUMBER OR AREA DESIGNATION
	CONCEALED PENDENT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	VERTICAL SIDEWALL SPRINKLER HEAD

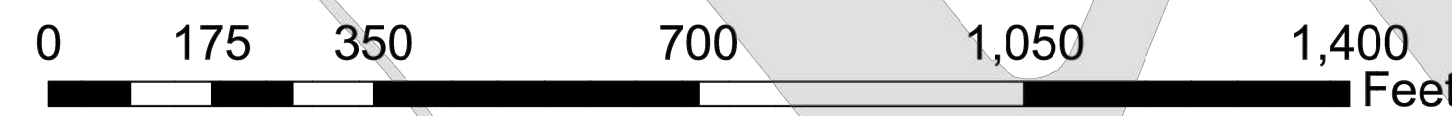
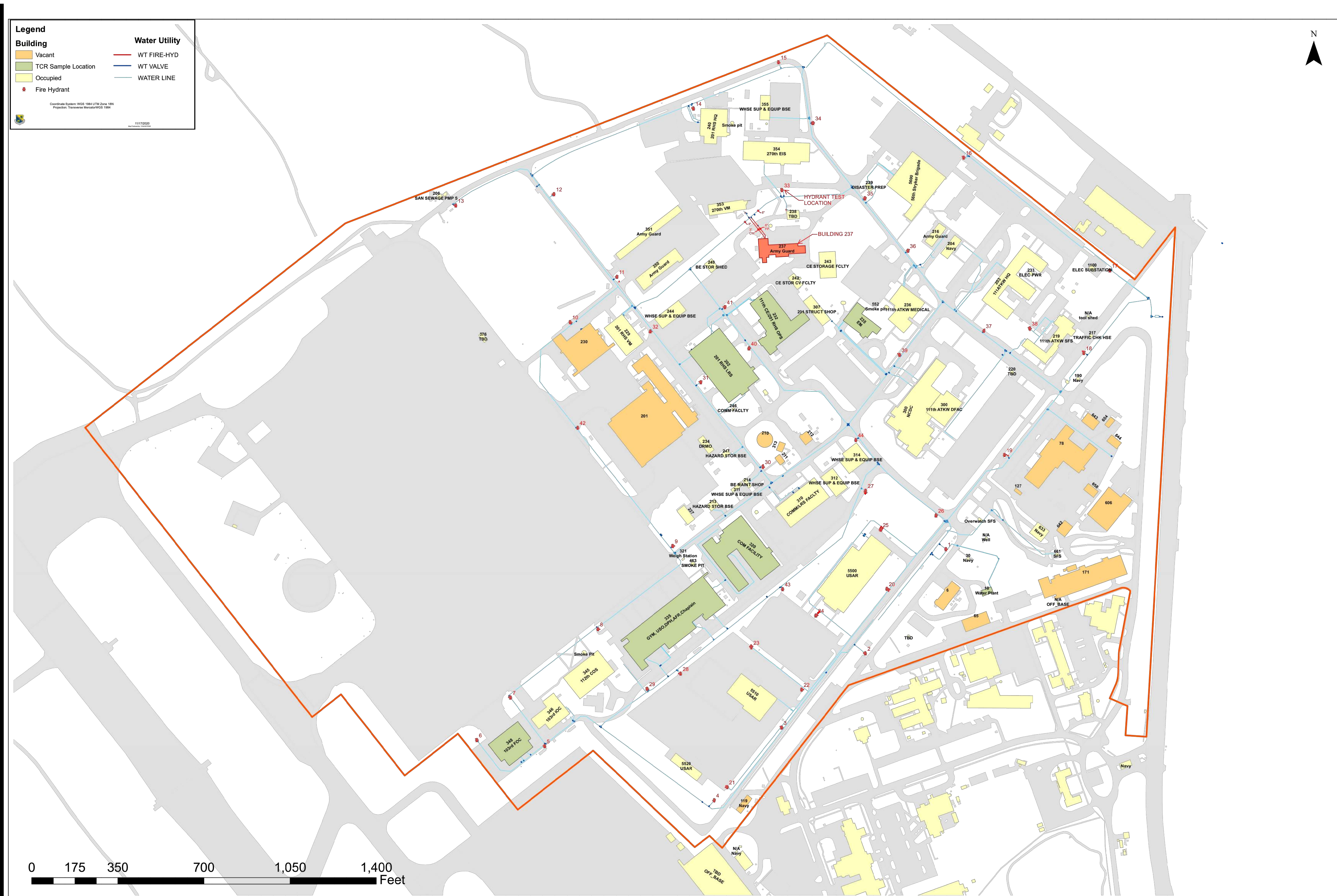
ABBREVIATIONS:

AD	ACCESS DOOR
A/P	ACCESS PANEL
C	CONDUIT
CL	CENTER LINE ELEVATION
CV	CONTROL VALVE ASSEMBLY
D	DEEP
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DSP	DRY STANDPIPE
(E)	EXISTING
EL	ELEVATION
FS	FLOW SWITCH
FD	FLOOR DRAIN OR FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FP	FIRE PROTECTION
FFP	FIRE PROTECTION PIPING
HB	HOSE BIBB
L	LONG
MTD	MOUNTED
M.C.	MECHANICAL CONTRACTOR
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
P	PUMP
RBF	RUN BELOW FLOOR
RAC	RUN ABOVE CEILING
RAF	RUN ABOVE FLOOR
RE	REMOVE EXISTING
SCH.	SCHEDULE
SS	STAINLESS STEEL
STD	STANDARD
T.S.	TAMPER SWITCH
THK.	THICK
TYP.	TYPICAL
VALV	VALVE
W/	WITH
WSP	WET STANDPIPE
W	WIDE
WT	WEIGHT

- GENERAL NOTES:**
- PROVIDE A HYDRAULICALLY CALCULATED WET-PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST ISSUE OF NFPA 13, ALL APPLICABLE NFPA STANDARDS, INTERNATIONAL FIRE CODE, INTERNATIONAL BUILDING CODE, PENNSYLVANIA CODES AND REQUIREMENTS.
 - REFER TO SPECIFICATION SECTIONS FOR ACCEPTABLE PIPING MATERIALS, SPRINKLER, HEADS, VALVES AND ACCESSORIES.
 - SPRINKLER DATA:
 - USE: OFFICE
 - DENSITY: 0.10 GPM/SQ. FT.
 - REMOTE AREA: 1,500 SQ. FT.
 - HAZARD CATEGORY: LIGHT HAZARD
 - HOSE DEMAND: 100 GPM FOR 30 MIN.
 - MIN. K-FACTOR: 5.6
 - MOST REMOTE HEAD MIN. PRESSURE: 7 PSI
 - HEAD TYPE: QUICK RESPONSE (QR)
 - SYSTEM TYPE: WET SPRINKLER SYSTEM - CLASS I AUTOMATIC
 - ALL PIPING SHALL BE RUN CONCEALED ABOVE NEW CEILINGS WHERE APPLICABLE. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH ALL OTHER TRADES. PROVIDE RETURN BENDS AND OFFSETS AS REQUIRED TO ACCOMMODATE ALL DUCTWORK, PIPING, CONDUITS, CABLE TRAYS, LIGHTING FIXTURES, BEAMS, AND SIMILAR OBSTRUCTIONS.
 - HEAD LAYOUT INDICATED IS FOR CONTRACTOR'S REFERENCE ONLY AND MAY NOT BE THE MOST HYDRAULICALLY EFFICIENT DESIGN. THE CONTRACTOR MAY REVISE THE DESIGN INDICATED PROVIDED THE NEW DESIGN FOLLOWS THE GUIDELINES REFERENCED IN NOTE #1. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL CEILING PLANS AND SHALL LOCATE FUTURE SPRINKLER HEADS AS INDICATED. CENTERED IN CEILING TILES, SHOULD THE SPRINKLER LAYOUT MEET THE CODES REFERENCED ABOVE.
 - PROVIDE COORDINATION DRAWINGS FOR APPROVAL IN COORDINATION WITH ALL OTHER CONTRACTORS AND RCP, IF APPLICABLE, PRIOR TO SUBMISSION OF SPRINKLER LAYOUT AND DESIGN. ONCE COORDINATION DRAWINGS ARE APPROVED CONTRACTOR SHALL SUBMIT LAYOUT AND DESIGN.
 - CONTRACTOR SHALL NOT BEGIN WORK WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT/ENGINEER, FM, AND LOCAL FIRE MARSHALL.
 - PROVIDE SPRINKLERS REQUIRED UNDER ALL OBSTRUCTIONS OVER 48 INCHES WIDE. COORDINATE LOCATION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE, AND REINSTALLATION OF CEILING AS REQUIRED TO FULFILL SCOPE OF WORK AS OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS TO THE EXISTING CEILING, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.
 - GEN. CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FOR ALL FURNITURE, FLOORS, WALLS, CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AESTHETIC ITEMS AS REQUIRED TO FULFILL THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.
 - MOST RECENT FLOW TEST WAS PERFORMED ON 9/20/2023 AT HYDRANT #33. STATIC PRESSURE-75 PSIG. RESIDUAL PRESSURE-36 PSIG. TEST FLOW-1061 GPM. FLOW AVAILABLE AT 20 PSI-1278 GPM. FLOW AVAILABLE AT 10 PSI-1398 GPM. RESULTS CAN BE OBTAINED FROM THE OWNER UPON REQUEST.
 - CONTRACTOR SHALL HAVE FIRE PROTECTION WATER FLOW TEST CONDUCTED PRIOR TO NEW WORK.
 - ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTALLED AT A LOCATION PROVIDING EASY ACCESS AND OPERATION FROM FLOOR LEVEL WITHOUT THE USE OF LADDER OR OTHER DEVICE (MAX. 7 FEET TO TOP OF OPERATING HANDLES.) VALVES SHALL BE ORIENTED TO ALLOW EASY VIEWING OF SIGHT GLASS, OPERATING INSTRUCTIONS, "OPEN/CLOSE" INDICATORS, ETC. FOR REQUIRED TESTING/INSPECTION/MAINTENANCE.
 - ALL NEW VALVES MUST BE ELECTRONICALLY MONITORED AND SECURED IN ACCORDANCE WITH OPP FIRE PROTECTION TECHNICIAN LOCKS.
 - ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTALLED AT A LOCATION PROVIDING EASY ACCESS AND OPERATION FROM FLOOR LEVEL WITHOUT THE USE OF LADDER OR OTHER DEVICE (MAX. 7 FT TO TOP OF OPERATING HANDLES.) VALVES SHALL BE ORIENTED TO ALLOW EASY VIEWING OF SIGHT GLASS, OPERATING INSTRUCTIONS, "OPEN/CLOSE" INDICATORS ETC. FOR REQUIRED TESTING/INSPECTION/MAINTENANCE.
 - ALL NEW VALVES MUST BE ELECTRONICALLY MONITORED AND SECURED IN ACCORDANCE WITH OPP FIRE PROTECTION TECHNICIAN LOCKS.

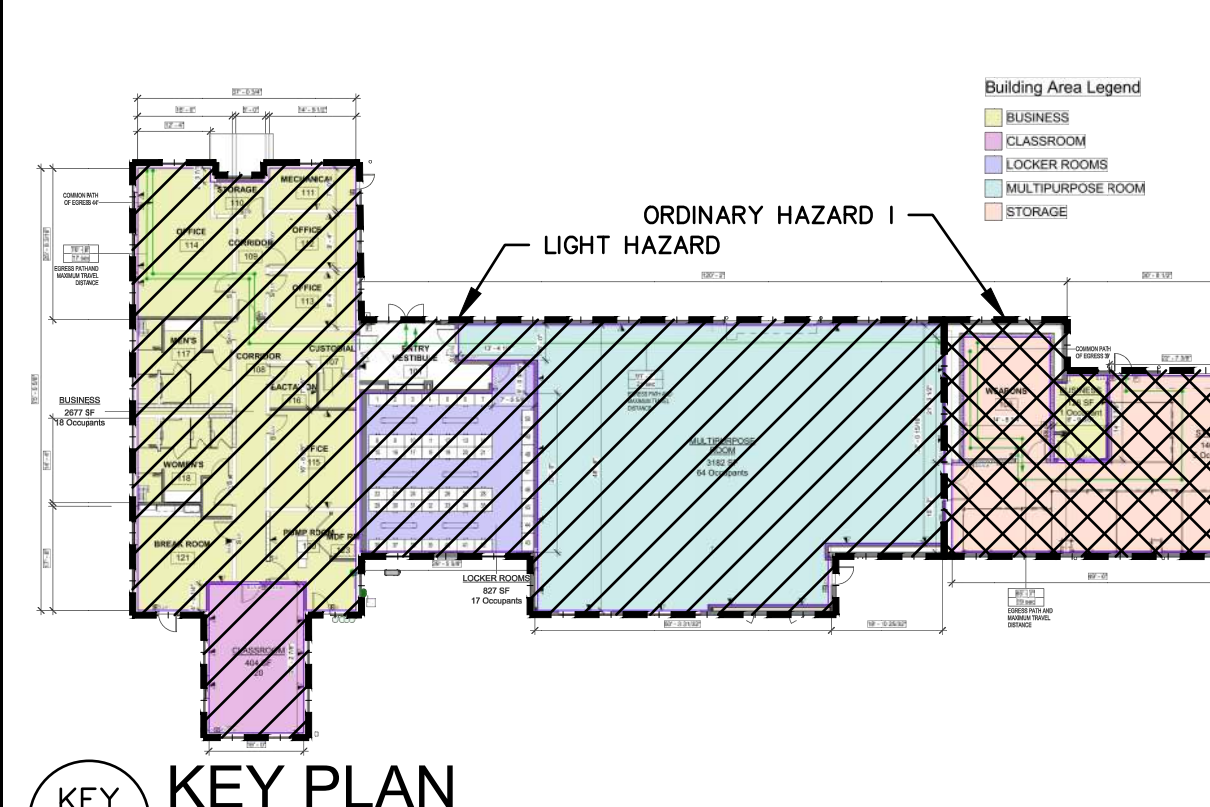
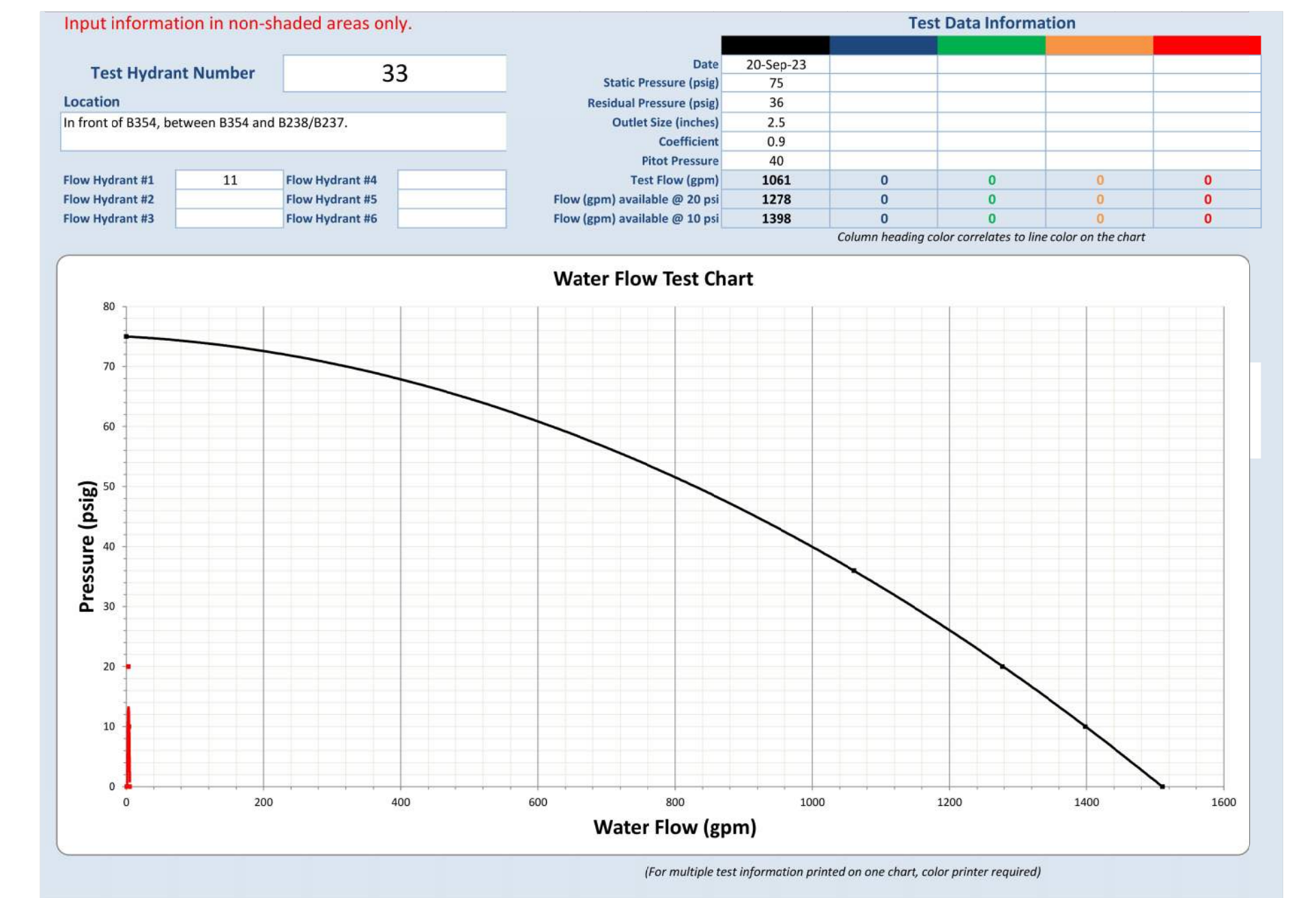
Legend

	Vacant
	TCR Sample Location
	Occupied
	Fire Hydrant
	WT FIRE-HYD
	WT VALVE
	WATER LINE



1 SITE PLAN - WATER SERVICE AND HYDRANT LOCATIONS
SCALE: NTS

Water Flow Test Record



RD SET	05/26/2024	DESIGN DEVELOPMENT
CONSTRUCTION DOCUMENTS	07/21/2024	REVISED
CONSTRUCTION DOCUMENTS	04/15/2024	
DESIGN DEVELOPMENT-REVISED	02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024	
---	--



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044
LEGENDS, ABBREVIATIONS & FLOW TEST

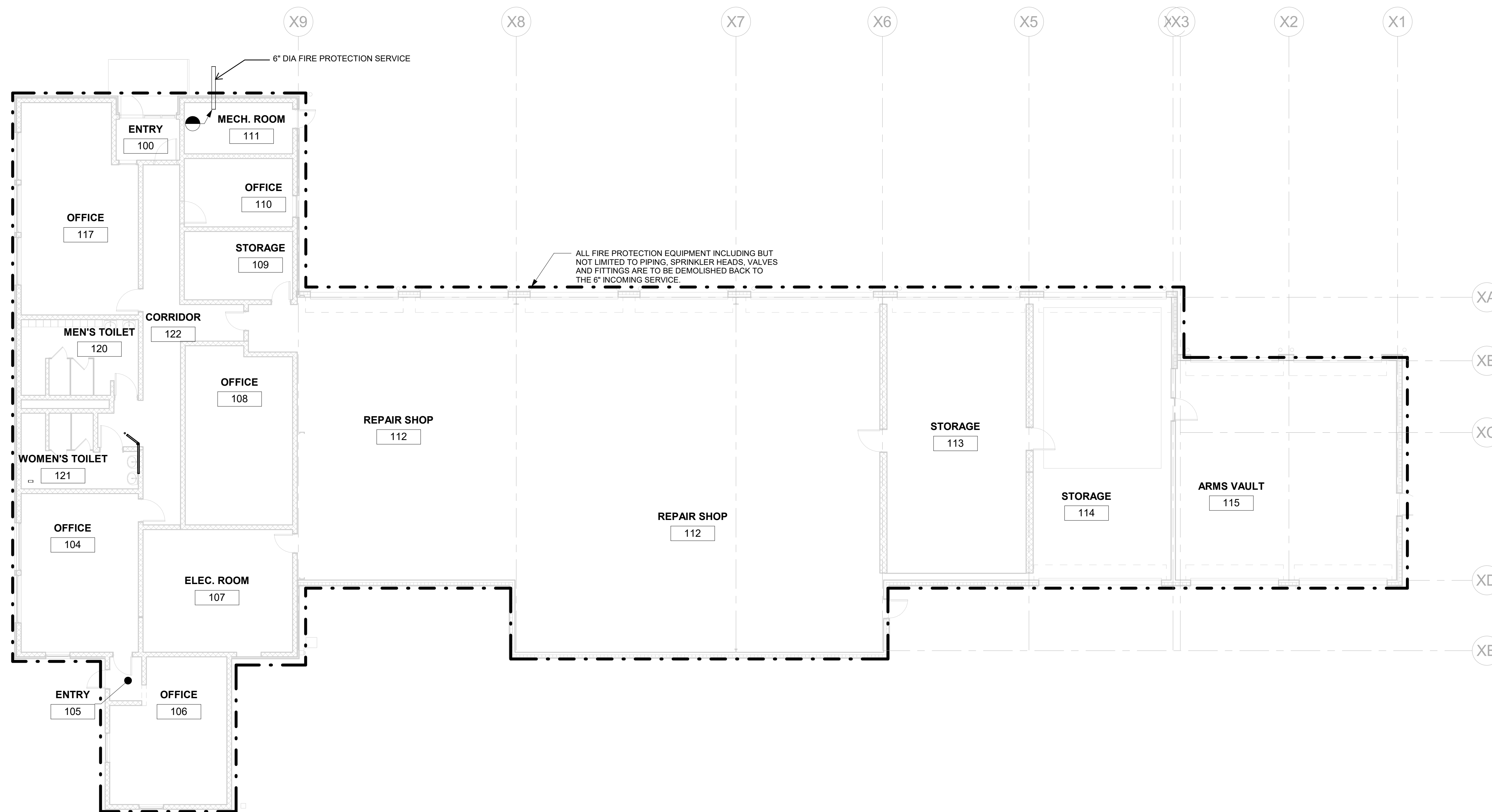
VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWINGS

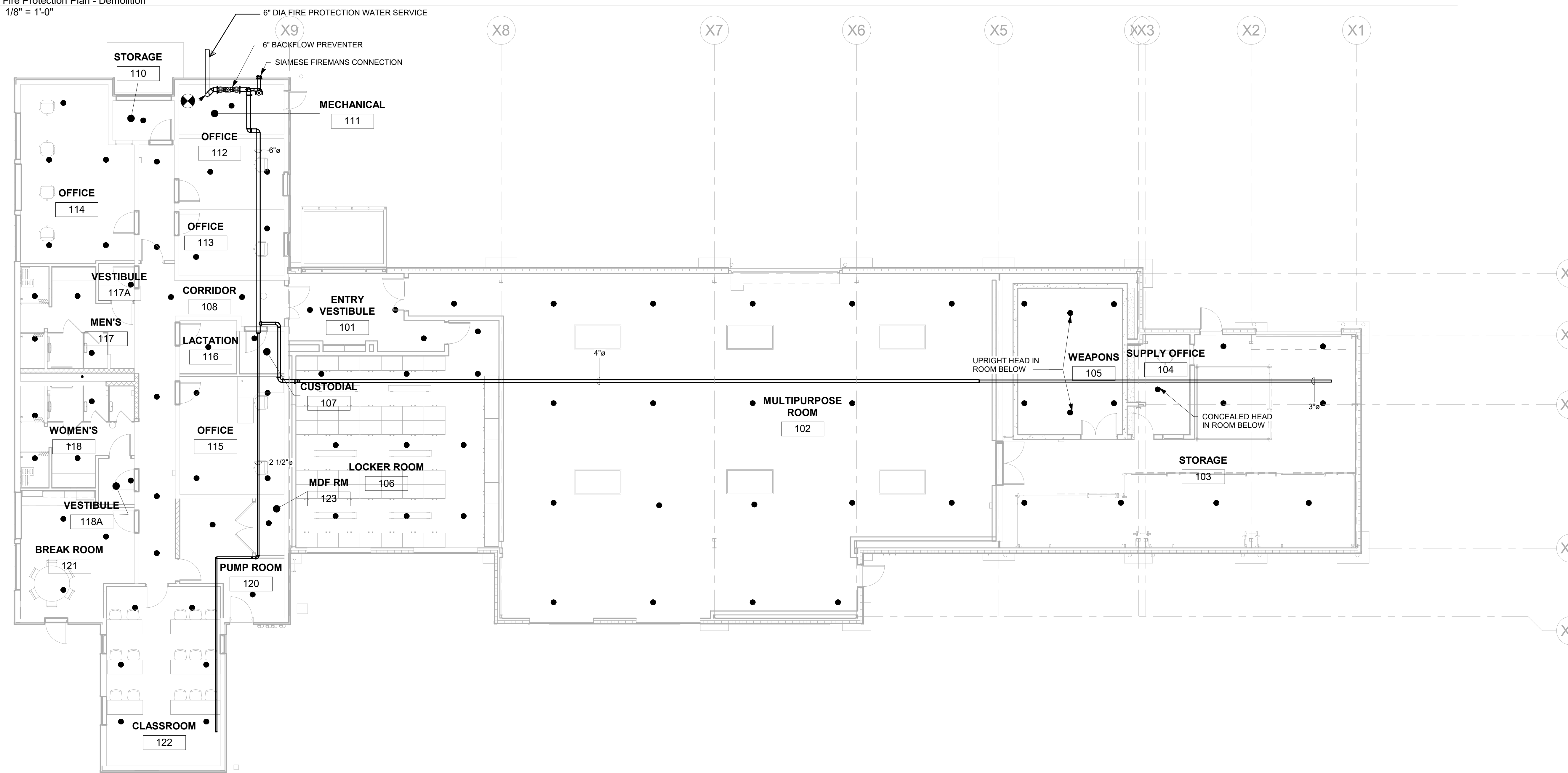
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	J. LUTCHENDORF	DATE	08/26/2024	DRAWING No.	FP-000
CHECKED BY	J. LUTCHENDORF	SCALE	AS NOTED		



1 Fire Protection Plan - Demolition
1/8" = 1'-0"



2 Fire Protection Plan - New Work
1/8" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/26/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

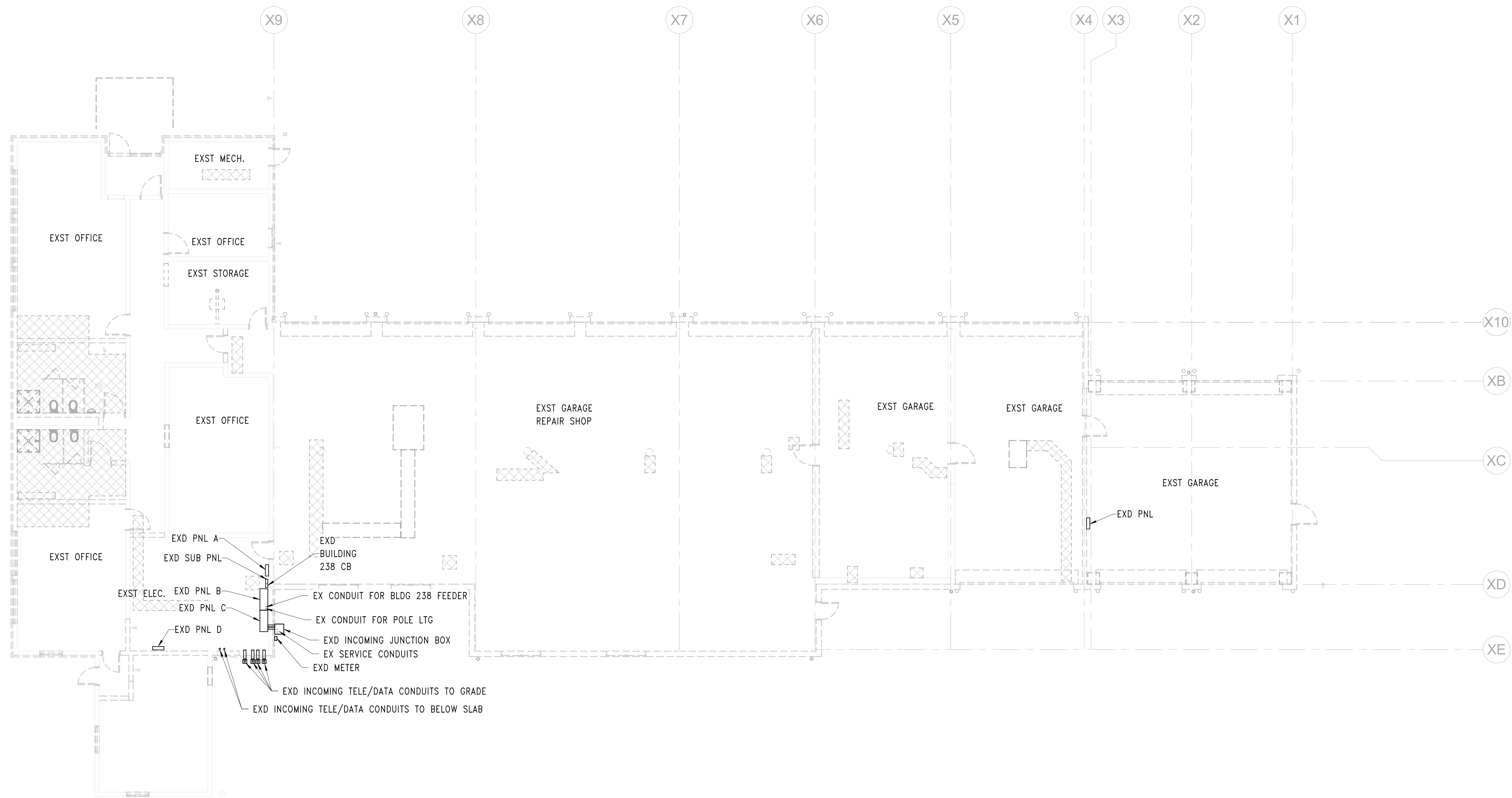
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

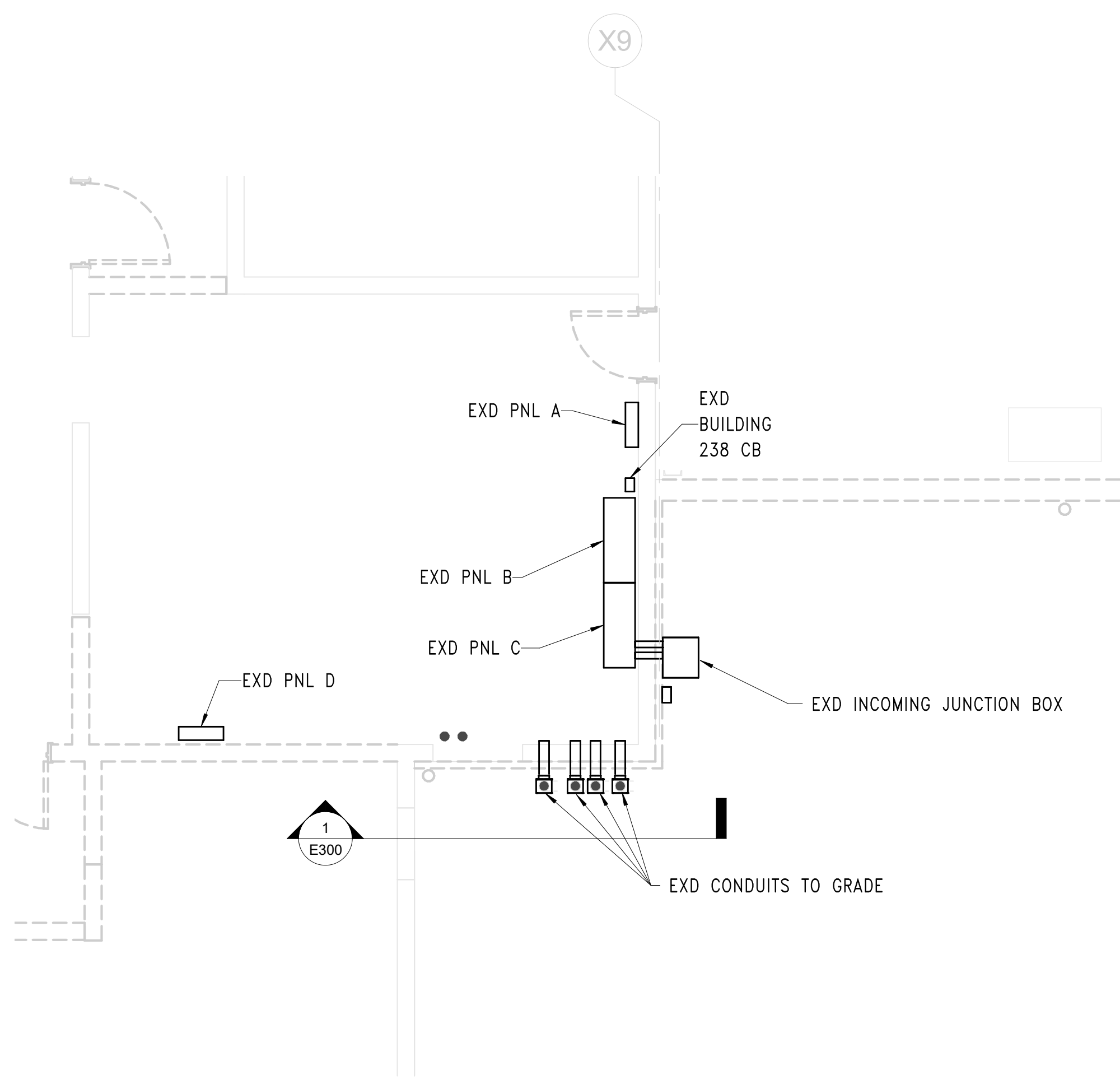
DEMOLITION & NEW WORK PLANS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.
DRAWN BY: Author
DATE: 08/26/24
DRAWING No.: FP-100
CHECKED BY: Checker
SCALE:



1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



2 CONDUIT DEMOLITION PLAN
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. ALL EXISTING PANELBOARDS, EQUIPMENT, DEVICES, LIGHT FIXTURES, CONDUIT AND WIRING SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
2. EXISTING FEEDER TO BUILDING 238 TO REMAIN AND BE REUSED TO POWER BUILDING 238.
3. EXISTING CIRCUIT FOR POLE LIGHTS TO REMAIN AND BE REUSED TO POWER EXISTING POLE LIGHTS.
4. DEMOLISH ALL THROUGH THE SLAB CONDUITS, FLUSH TO FLOOR.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

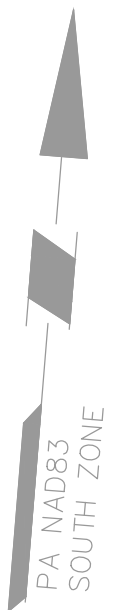
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION

HORSHAM, PA 19044

FIRST FLOOR DEMOLITION PLAN

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. ED100
CHECKED BY TB	SCALE AS NOTED	

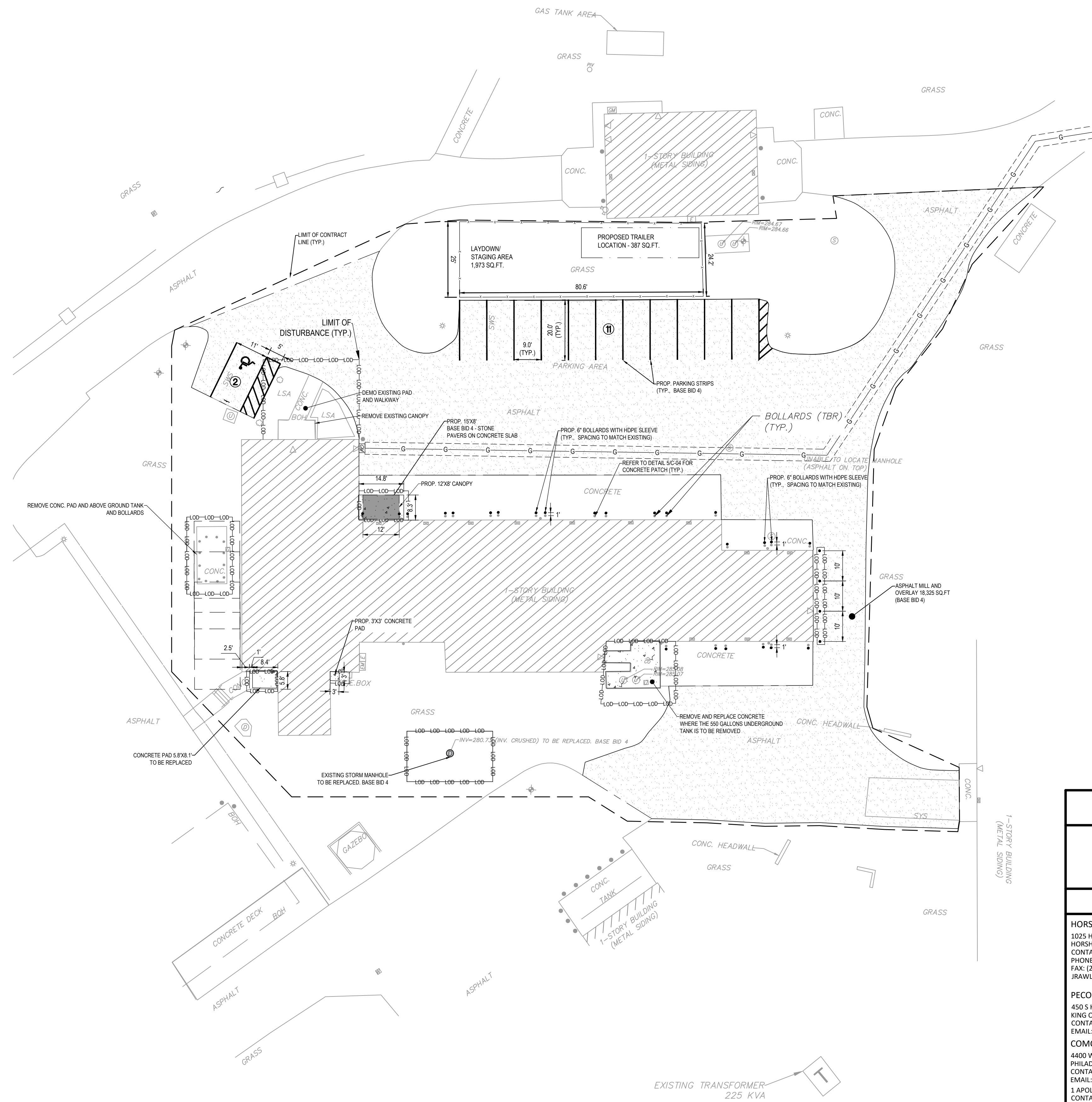
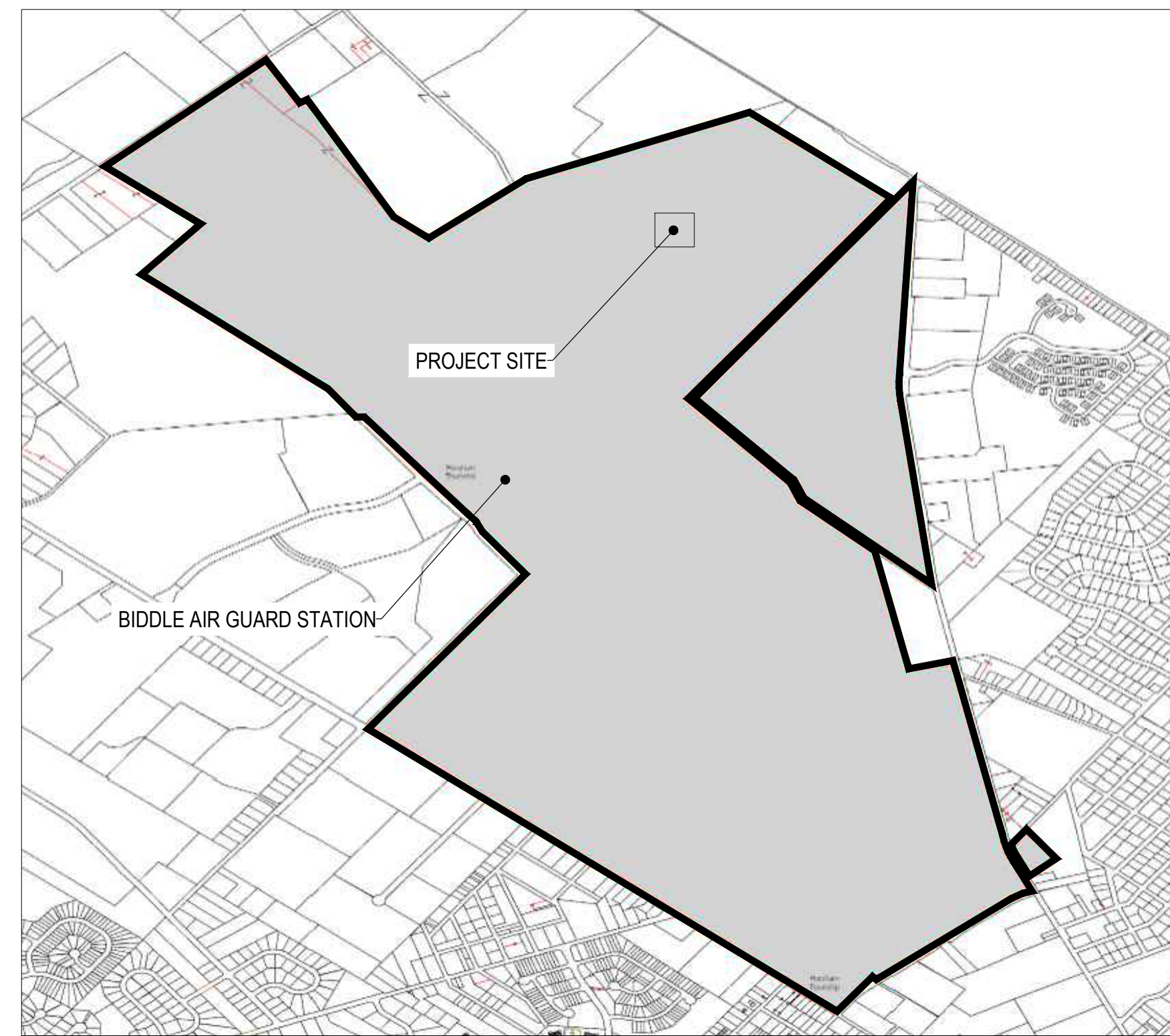


SURVEY NOTES:

- THE SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:
 - "SITE PLAN - ELECTRICAL, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
 - "SITE PLAN & DETAILS, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
- TOPOGRAPHIC & UTILITY INFORMATION SHOWN BASED ON A FIELD SURVEY PERFORMED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES DURING AUGUST 2023.
- THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
- VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
- OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.
- BOUNDARY, WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
- UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY UNDERGROUND SERVICES, INC.), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
- THIS PLAN IS NOT VALID UNLESS STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL OR DIGITAL SIGNED AND SEALED.

GENERAL NOTES:

- BUILDING 237 IS PART OF BIDDLE AIR GUARD STATION PROPERTY. THE PARCEL ID FOR THE PROPERTY IS 360004050009.
- THE TOTAL TRACT ACREAGE OF THE BIDDLE AIR GUARD STATION PER PROPERTY RECORD IS 1006.32 ACRES
- THE PROPOSED ACREAGE OF THE SITE IMPROVEMENT IS 0.0093 ACRES (404 SQFT)



ASPHALT MILL AND OVERLAY GENERAL NOTES:

- HATCHED AREA = 18,325 SQ FT TO MILL & OVERLAY.
- PAINT & RE-STRIPE NEW PARKING LAYOUT.
- DISTURBED AREA SLOPE MIN 1% TO MAINTAIN POSITIVE DRAINAGE.
- MATCH TO EXISTING PAVING.

JURISDICTION	# OF PARKING SPOTS	REQUIRED # OF HANDICAP PARKING SPOTS	STALL WIDTH	STALL LENGTH
HORSHAM TOWNSHIP	10	1	9 feet	20 feet

LEGEND

DEMO

BUILDING OVERHANG	[Symbol]
CONCRETE PAD	[Symbol]
BOLLARD	[Symbol]

LEGEND

EXISTING

BUILDING	[Symbol]
BUILDING OVERHANG	[Symbol]
WALL	[Symbol]
BOLLARD	[Symbol]
FENCE	[Symbol]
PAVEMENT MARKING	[Symbol]
GUARD RAIL	[Symbol]
LIGHT	[Symbol]
MONITORING WELL	[Symbol]
GAS METER	[Symbol]
ELECTRIC MANHOLE	[Symbol]
STORM MANHOLE	[Symbol]
SANITARY MANHOLE	[Symbol]
ELECTRIC METER	[Symbol]
FIRE HYDRANT	[Symbol]
ELECTRIC METER	[Symbol]
SEWER	[Symbol]
DOOR	[Symbol]
GAS VALVE	[Symbol]
TREE/ BUSH	[Symbol]

LEGEND

PROPOSED

BUILDING CANOPY	[Symbol]
CONCRETE SIDEWALK	[Symbol]
SANITARY MANHOLE	[Symbol]
ASPHALT MILL & OVERLAY	[Symbol]
BOLLARD	[Symbol]
GAS LINE	[Symbol]
EDGE OF TRENCH	[Symbol]
LIMITS OF DISTURBANCE	[Symbol]
STAGING/ LAYDOWN AREA	[Symbol]
PROPOSED TRAILER	[Symbol]
LIMIT OF CONTRACT LINE	[Symbol]
PROJECT BOUNDARY LINE	[Symbol]

UTILITY USER LIST
ACT NUMBER 287 OF 1974 AS AMENDED

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO THE START OF CONSTRUCTION. ADDITIONAL TELECOMMUNICATIONS/FIBER OR OTHER UTILITY PROVIDERS LISTED BELOW MAY HAVE FACILITIES WITHIN RENTED DUCTS AND MAY OR MAY NOT SHOW UP ON THE ONE CALL LIST. IN ADDITION, IF THERE ARE RESPONSES SHOWN AS "CLEAR-NO FACILITIES" TO A ONE CALL REQUEST, THERE STILL MAY BE A CONFLICT.

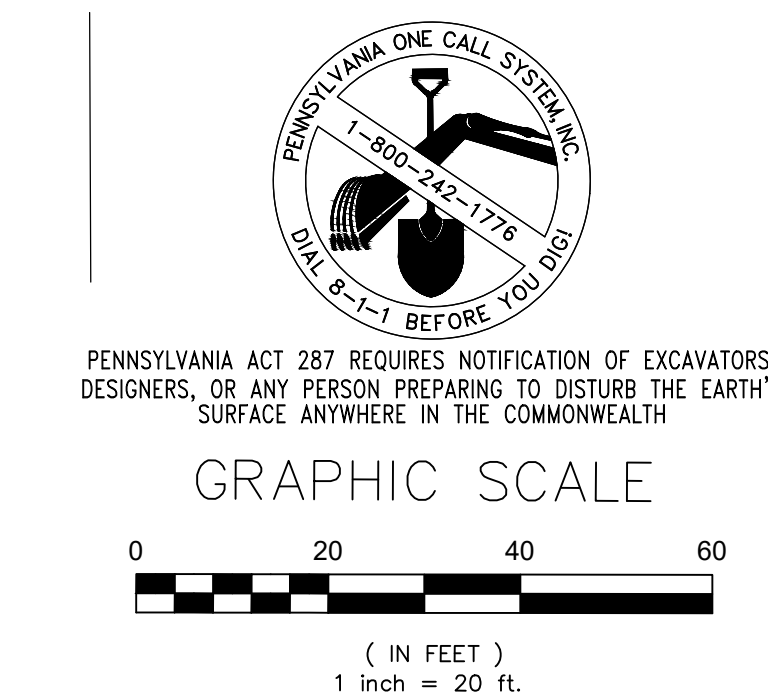
PENNSYLVANIA ONE CALL: 1-800-242-1776
SERIAL NO: 2024433927

HORSHAM TOWNSHIP 1025 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: JOHN RAWLUK PHONE: (215) 643-2331 FAX: (215) 643-0448 JRAWLUK@HORSHAM.ORG	HORSHAM WATER AND SEWER AUTHORITY - MAIN OFFICE 617 HORSHAM ROAD HORSHAM, PA 19044 CONTACT: MICHAEL HEALEY PHONE: (215) 672-8011 EMAIL: CONTACT@HORSHAMWATER-SEWER.COM
PECO ENERGY C/O USIC 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA 19386 CONTACT: NIKKIA SIMPKINS EMAIL: NIKKIASIMP@USICLLC.COM	TRANSCONTINENTAL GAS/ WILLIAMS GAS 99 FARMER RD PRINCETON, NJ 08540 CONTACT: JUSTIN ADAMS EMAIL: JUSTIN.ADAMS@WILLIAMS.COM
COMCAST 4400 WAYNE AVENUE PHILADELPHIA, PA 19140 CONTACT: ROBERT HARVEY EMAIL: BOB_HARVEY@CABLE.COMCAST.COM	VERIZON PENNSYLVANIA LLC 1050 VIRGINIA DR FORT WASHINGTON, PA 19034 CONTACT: VICTOR WOOD EMAIL: VICTOR.S.WOOD@ONE.VERIZON.COM

10/11/2024 - ADDENDUM #3

RECORD REVISIONS
Construction Documents - August 26, 2024

Professional Engineer Stamp: JAMES C. GLEATON JR., ENGINEER, PROFESSIONAL, PENNSYLVANIA, 10/11/2024



PENNSYLVANIA ACT 287 REQUIRES NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

GRAPHIC SCALE

0 20 40 60
(IN FEET)
1 inch = 20 ft.

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

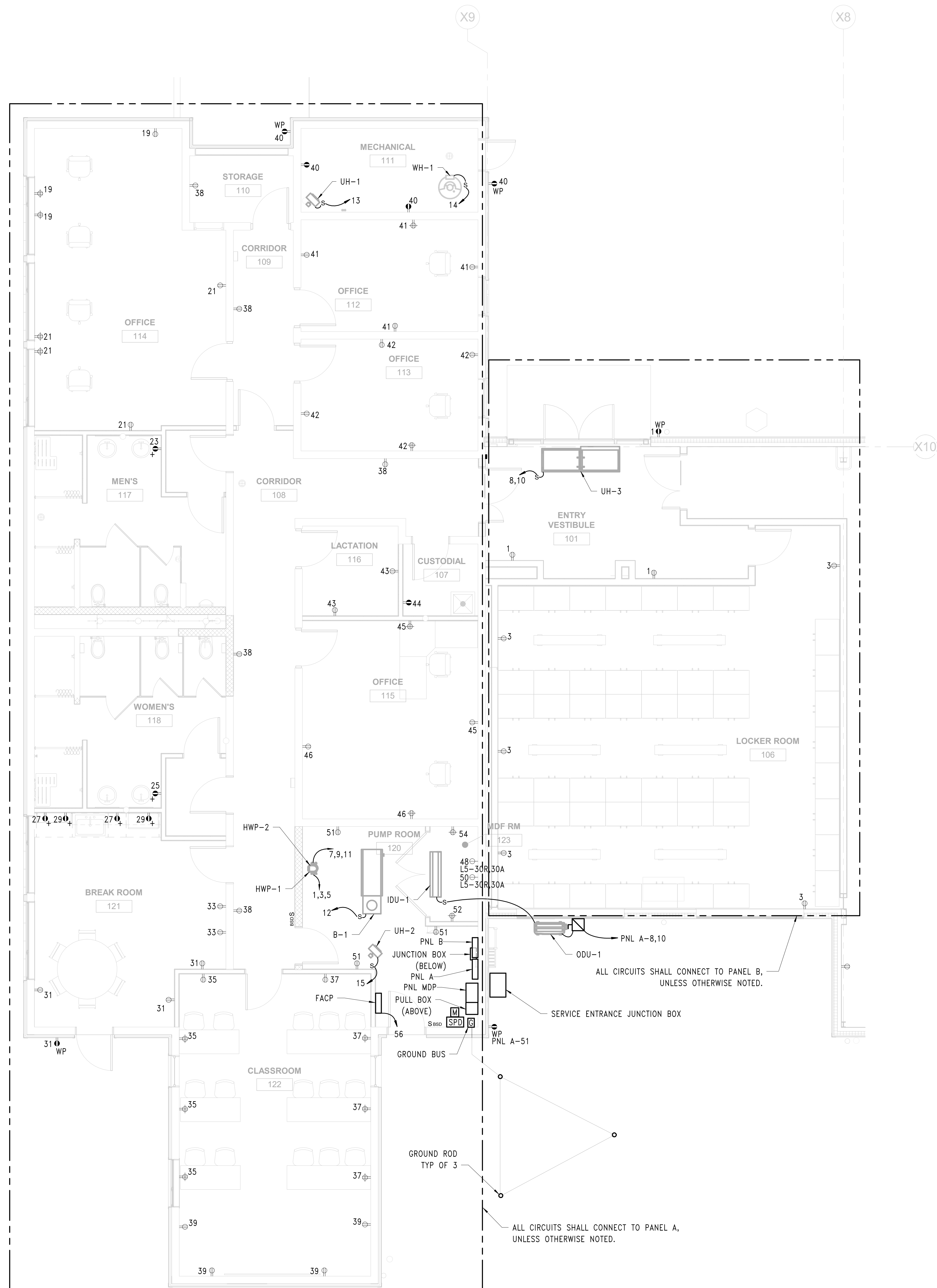
D.G.S. PROJECT No:
DGS C-0961-0044 PHASE 01

**BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION**

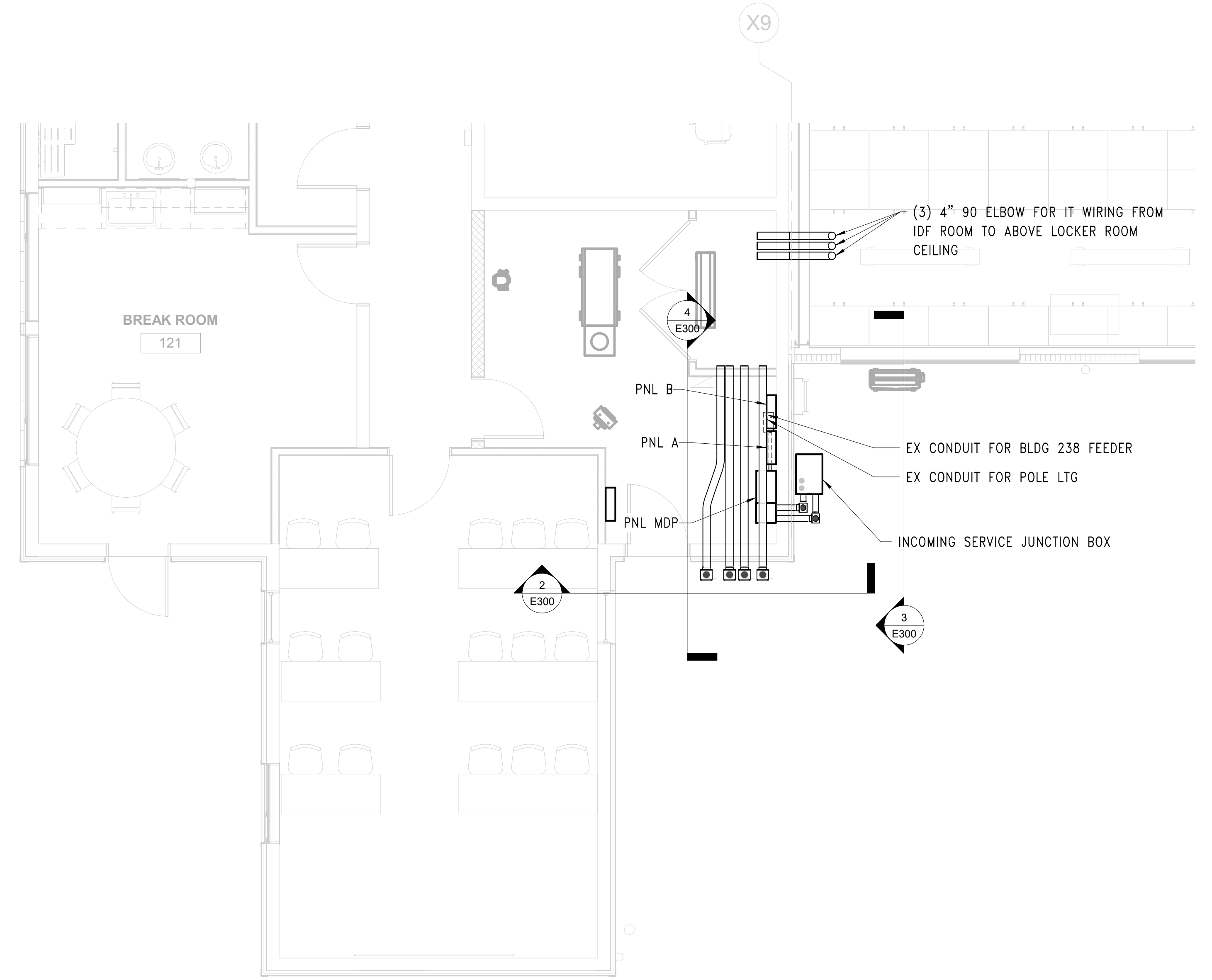
HORSHAM, PA 19044

LAND TITLE/LEASE

DRAWN BY JYL	DATE 08/26/2024	DRAWING No. EX-01
CHECKED BY JC	SCALE AS NOTED	



① FIRST FLOOR NEW WORK POWER PLAN - WEST
1/4" = 1'-0"



② CONDUIT NEW WORK PLAN
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document = August 26, 2024

SIGNATURE _____ DATE _____

ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

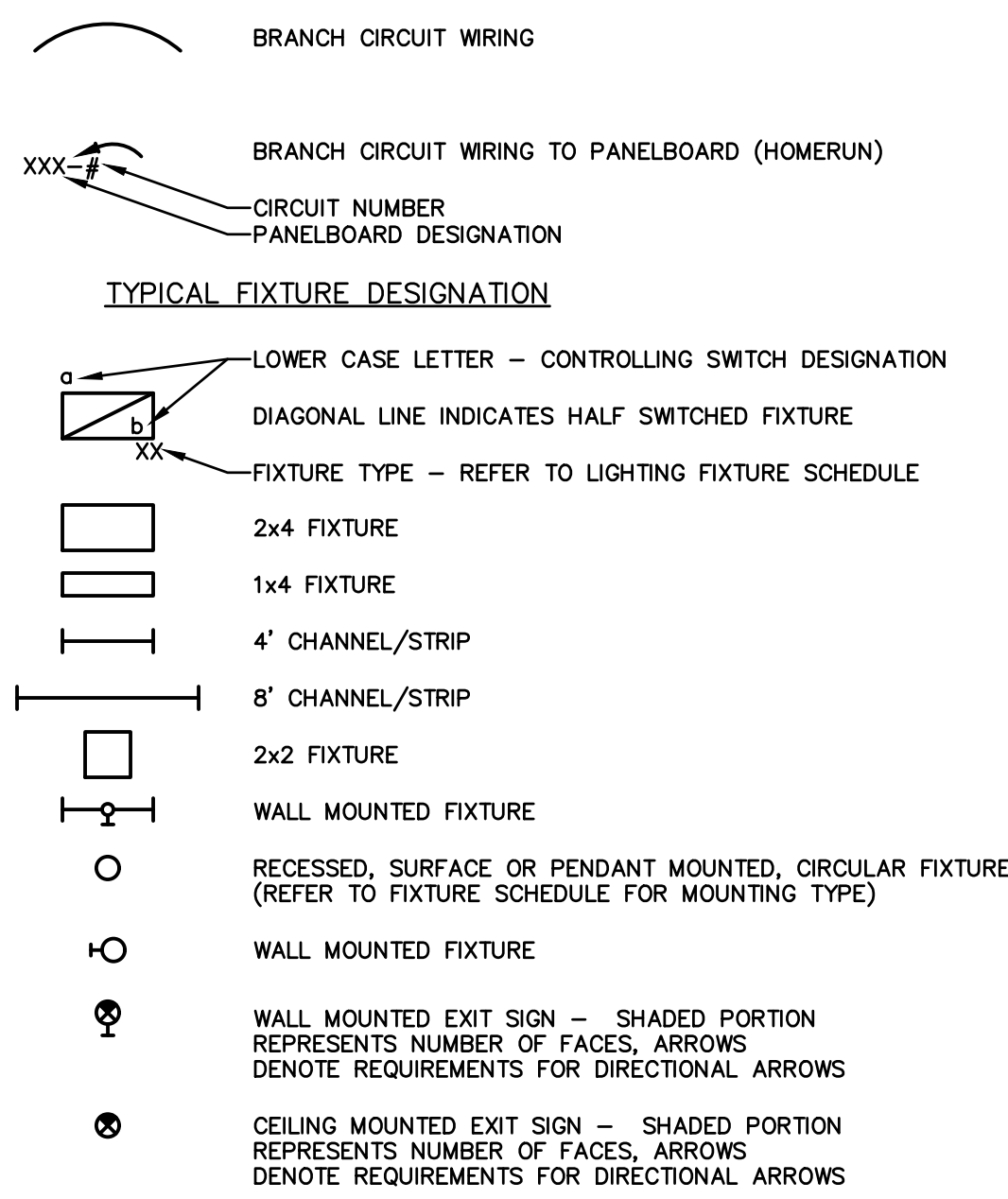
NEW WORK POWER PLAN - WEST

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-100
CHECKED BY TB	SCALE AS NOTED	

LEGENDS AND ABBREVIATIONS

TYPICAL WIRING



GENERAL SWITCHING NOTE:

LOWER CASE LETTER ADJACENT TO SWITCH IDENTIFIES CONTROLLED FIXTURES

- S_x SINGLE POLE SWITCH
- [TYP. DESIGNATION]
- 2 = DOUBLE POLE SINGLE THROW SWITCH
3 = THREE WAY SWITCH
4 = FOUR WAY SWITCH
CO = SINGLE POLE, CENTER OFF MOMENTARY CONTACT
D = DIMMER SWITCH
DS = DOOR SWITCH
LV = LOW VOLTAGE CONTROL SYSTEM SWITCH
P = SWITCH WITH PILOT LIGHT
T = TIME CONTROL SWITCH (WATTSTOPPER TS-400)
LT = SWITCH WITH LIGHTED TOGGLE
K = KEY OPERATED MOMENTARY CONTACT SWITCH
OD = DUAL TECHNOLOGY OCCUPANCY SENSOR
OP = PASSIVE INFRARED OCCUPANCY SENSOR
OU = ULTRASONIC OCCUPANCY SENSOR

ELCUI EMERGENCY LIGHTING CONTROL UNIT WATTSTOPPER ELCUI-200 OR BODINE BLC0-20B

PC PHOTO CELL

OCCUPANCY SENSORS

- PP POWER PACK
- CS CEILING/PENDANT MOUNTED OCCUPANCY SENSOR
- [TYP. DESIGNATION]
- D = DUAL TECHNOLOGY
P = PASSIVE INFRARED
U = ULTRASONIC
- WALL MOUNTED OCCUPANCY SENSOR
- ROOM CONTROLLER
- OS CEILING/PENDANT MOUNTED DAYLIGHT SENSOR
- PLC PLUG LOAD CONTROLLER

TYPICAL SECURITY DEVICE DESIGNATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RACEWAY AND JUNCTION BOXES ONLY. SECURITY DEVICES AND WIRING BY THE SECURITY INSTALLER. FOR EACH TYPE OF SECURITY DEVICE, PROVIDE A UNIVERSITY APPROVED FLUSH MOUNTED OUTLET BOX (COORDINATE EXACT TYPE WITH SECURITY SYSTEM SUPPLIER) AND A 1" CONDUIT WITH PULL LINE FROM THE DEVICE TO THE SECURITY JUNCTION BOX.

- XX SECURITY SYSTEM DEVICE
- [TYP. DESIGNATION]
- AS = DURESS ALARM SWITCH
C = CLOSED CIRCUIT TV CAMERA
CR = CARD READER
DA = DURESS ALARM
DC = DOOR CONTACTS
EH = ELECTRIC DOOR HINGE
ES = ELECTRIC DOOR STRIKE
GS = GUARD TOUR STATION
HB = HOLD UP BUTTON
KS = LOCAL KEY SWITCH FOR ALARM BYPASS
MD = MOTION DETECTOR
MR = MANUAL RELEASE
PA = PANIC SWITCH
RK = REQUEST TO EXIT
SD = SOUND DETECTOR

NS NETWORK SWITCH

NVR NETWORK RECORDER

SECURITY CAMERA

TYPICAL INTERCOM DESIGNATION

PROVIDE A FULLY FUNCTIONAL INTERCOM SYSTEM SO THAT THE RECEPTIONIST CAN ALLOW ENTRY TO VISITORS. SYSTEMS SHALL BE INSTALLED AND WIRED PER MANUFACTURERS REQUIREMENTS. ALL WIRING SHALL BE IN CONDUIT.

- I INTERCOM STATION
- MI MASTER INTERCOM STATION
- NS NETWORK SWITCH

TYPICAL INTRUSION DETECTION (IDS) DESIGNATION

PROVIDE A FULLY FUNCTIONAL INTRUSION DETECTION SYSTEM FOR THE WEAPONS VAULT. SYSTEMS SHALL BE INSTALLED AND WIRED PER MANUFACTURERS REQUIREMENTS. ALL WIRING SHALL BE IN CONDUIT.

- FOC ADVANTOR CHASSIS WITH FOC
- LAN I02 I02 LAN
- KP KEYPAD
- HUR HOLD UP/DURESS
- NCC NETWORK COMM CABINET
- FOC FIBER OPTIC MEDIA CONVERTER
- SWITCH PORT SWITCH
- HSS SPDT HIGH SECURITY SWITCH
- PIR WALL MOUNTED PIR

TYPICAL POWER DESIGNATION

- XX DUPLICATION RECEPTACLE - 125V, 2P, 3W
- [TYP. DESIGNATION]
- 20/3 = INDICATES 20A, 3 POLE RECEPTACLE
+ = INDICATES MOUNTING HT 6" ABV COUNTER TOP
+44 = INDICATES MOUNTING HEIGHT
C = CLEAN POWER
CLG = MOUNT FLUSH ON CEILING
H = HOSPITAL GRADE
R = DROP CORD REEL OUTLET (CEILING MOUNTED)
SS = SURGE SUPPRESSION
ST = SAFETY TYPE
TW = TWISTLOCK
WP = WEATHER PROOF
XP = EXPLOSION PROOF
XXA = AMPERES (XX-RATING)
PLC = PLUG LOAD CONTROLLED
1/2PLC = SPLIT CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE CONTROLLED
- SINGLE RECEPTACLE - 125V, 2P, 3W 20A, UON
- ⊕ QUADRUPLE RECEPTACLE - 125V, 2P, 3W
- [TYP. DESIGNATION]
- PLC = 1 OF 2 DUPLICATION RECEPTABLES ARE PLUG LOAD CONTROLLED

- ⊕ GFI DUPLICATION RECEPTACLE - 125V, 2P, 3W
- ⊕ GFI QUAD RECEPTACLE - 125V, 2P, 3W
- ⊕ ISOLATED GROUND/SURGE PROTECTIVE DUPLICATION RECEPTACLE - 125V, 2P, 3W
- ⊕ ISOLATED GROUND QUADRUPLE RECEPTACLE - 125V, 2P, 3W
- ⊕ DUPLICATION RECEPTACLE - HALF SWITCHED
- SINGLE RECEPTACLE - 250V, 2P, 3W 20A, UON
- ⊕ SINGLE RECEPTACLE - 277V, 2P, 3W 20A, UON
- ⊕ SINGLE RECEPTACLE - 250V, 3P, 4W 20A, UON
- ⊕ WELDING RECEPTACLE - 480V, 3P, 4W 20A, UON
- SINGLE RECEPTACLE - 250/125V, 3P, 4W 20A, UON
- SINGLE RECEPTACLE - 250/125V, 4P, 4W 20A, UON

- FB FLOOR BOX
- JUNCTION BOX
- POKE THRU DEVICE
- NEW PANELBOARD, DESIGNATION AS NOTED
- EXISTING PANELBOARD, DESIGNATION AS NOTED
- SYSTEM CONTROL PANEL, TYPE AS NOTED

ALUMINUM SURFACE RACEWAY WITH DEVICES AS INDICATED, WHERE ONLY RECEPTABLES INSTALLED, PROVIDE SURFACE RACEWAY EQUAL TO WIREMOLD 3300, WHERE RECEPTABLES AND TELE/DATA INDICATED, PROVIDE SURFACE RACEWAY EQUAL TO WIREMOLD 5200. SURFACE METALLIC RACEWAYS SHALL BE COMPLETE, INCLUDING BASES, COVERS, END PLATES, WIRING, RECEPTABLES, FITTINGS, AND CONNECTIONS, AND OF EXACT LENGTHS TO MATCH THE LENGTHS OF THE CABINETS, WORK BENCHES, AND SHELVINGS AS INDICATED ON LABORATORY FURNITURE SHOP DRAWINGS SINCE THE LENGTHS SHOWN ON ELECTRICAL PLANS ARE ILLUSTRATIVE AND DIAGRAMATIC ONLY AND ARE NOT ACCURATE. RACEWAY SHALL BE INSTALLED SO THAT NOTCH PROVIDED FOR REMOVING FACEPLATE SHALL BE AT BOTTOM.

- △ DEVICES NOT MOUNTED IN SURFACE RACEWAY
- △ DEVICES MOUNTED IN SURFACE RACEWAY
- ES EMERGENCY SHUTOFF
- LT TRANSFORMER

TYPICAL FIRE ALARM DESIGNATION

- FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
- FIRE ALARM MANUAL PULL STATION
- ⊕ COMBINATION SPEAKER/STROBE NOTIFICATION APPLIANCE
- FIRE ALARM VISUAL NOTIFICATION APPLIANCE
- CANDELA RATING, 15CD IF NOT SHOWN
- AUTOMATIC DETECTOR
- [TYP. DESIGNATION]
- C = CARBON MONOXIDE
D = DUCT SMOKE DETECTOR
F = THERMAL, FIXED TEMPERATURE
FR = THERMAL, COMBINATION RATE OF RISE PLUS FIXED TEMPERATURE
H = AREA HEAT DETECTOR
PE = SMOKE REFRACTION, PHOTO ELECTRIC
R = THERMAL, RATE OF RISE
S = AREA SMOKE DETECTOR

MM MONITORING MODULE

CM CONTROL MODULE

TS TEST SWITCH - COORDINATE INSTALLATION LOCATION

AMP AMPLIFIER

TYPICAL MASS NOTIFICATION DESIGNATION

- LUVC SPEAKER CONTROL
- LOC LOCAL OPERATING CONSOLE
- ⊕ COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE

TYPICAL TELECOMMUNICATIONS DESIGNATION

PROVIDE A TWO GANG BOX WITH PLASTER RING FOR CONNECTION OF SINGLE GANG FACEPLATE FOR EACH TELEPHONE/DATA OR TELEPHONE DEVICE WITH (1) 1" CONDUIT INSTALLED FOR EACH DEVICE TO TELECOMMUNICATIONS CLOSET OR CABLE TRAY IN ACCESSIBLE CEILING SPACE. INSTALL PULL LINE IN EACH CONDUIT, WHERE A TELE/DATA OUTLET IS PROVIDED IN SURFACE RACEWAY, EACH OUTLET SHALL ACCOMMODATE UP TO 4 DEVICES. PROVIDE A 1" CONDUIT FROM SURFACE RACEWAY TO CABLE TRAY IN ACCESSIBLE CEILING SPACE OR TELECOMMUNICATIONS CLOSET FOR EACH TELE/DATA OUTLET.

- TELEPHONE OUTLET
- [TYP. DESIGNATION]
- FLOOR MOUNTED TELEPHONE OUTLET
- TELEPHONE/DATA OUTLET

TYPICAL SINGLE LINE DESIGNATION

- NON FUSED SAFETY SWITCH
- DISCONNECT SWITCH (SWITCHGEAR, SUBST, ETC)
- FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH (SWITCHGEAR, SUBST, ETC)
- FUSE
- FUSED CUT-OUT
- OIL SWITCH
- ENCLOSED CIRCUIT BREAKER
- CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
- CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE CONTROLLED
- DRAW-OUT CIRCUIT BREAKER
- DRAW-OUT FUSE (SWITCHGEAR, SUBST, ETC)
- DRAW-OUT FUSE
- DRAW-OUT CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
- DRAW-OUT CIRCUIT BREAKER, 600V OR LESS
- DRAW-OUT CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
- DRAW-OUT CIRCUIT BREAKER, MEDIUM VOLTAGE
- DRAW-OUT CIRCUIT BREAKER WITH CL FUSES
- DRAW-OUT CIRCUIT BREAKER WITH CL FUSES
- CONNECTION
- UTILITY COMPANY METERING COMPARTMENT
- DRAW-OUT VOLTAGE TRANSFORMER
- CONTACTOR (NORMALLY OPEN)
- CONTACTOR (NORMALLY CLOSED)
- THERMAL OVERLOAD RELAYS
- MOTOR STARTER
- COMBINATION MOTOR STARTER/BREAKER
- COMBINATION MOTOR STARTER/DISCONNECT SWITCH
- LIGHTNING ARRESTOR
- CAPACITOR
- DELTA
- WYE
- COIL
- POWER TRANSFORMER
- VOLTAGE TRANSFORMER
- CURRENT TRANSFORMER
- EQUIPMENT --- PANEL, MCC, ETC.
- AUTOMATIC TRANSFER SWITCH
- EMERGENCY GENERATOR
- NEW FEEDER IDENTIFICATION
- SURGE PROTECTIVE DEVICE
- METER

- NEW WORK
- EXISTING WORK
- DEMOLITION
- SINGLE LINE DEMOLITION

- MOTOR
- NON FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH
- MOTOR STARTER
- COMBINATION STARTER/CIRCUIT BREAKER
- ENCLOSED CIRCUIT BREAKER
- VARIABLE FREQUENCY DRIVE
- MANUAL MOTOR SWITCH
- FIXTURE
- FLOOR
- FLA FULL LOAD AMPS
- FLUOR FLUORESCENT

- NEW WORK
- EXISTING WORK
- DEMOLITION
- SINGLE LINE DEMOLITION

- MOTOR
- NON FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH
- MOTOR STARTER
- COMBINATION STARTER/CIRCUIT BREAKER
- ENCLOSED CIRCUIT BREAKER
- VARIABLE FREQUENCY DRIVE
- MANUAL MOTOR SWITCH
- FIXTURE
- FLOOR
- FLA FULL LOAD AMPS
- FLUOR FLUORESCENT

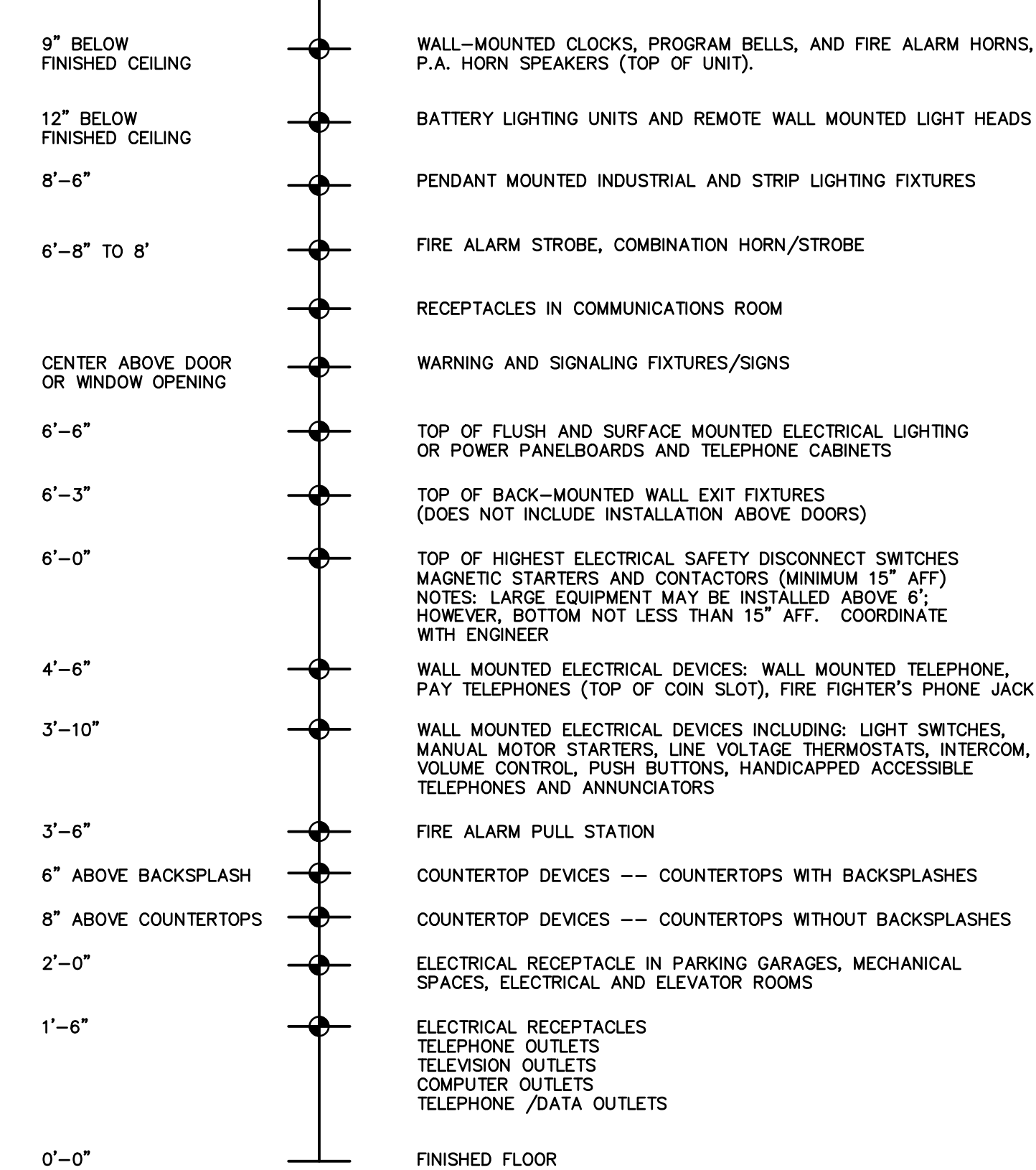
TYPICAL MECHANICAL DESIGNATION

- MOTOR
- NON FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH
- MOTOR STARTER
- COMBINATION STARTER/CIRCUIT BREAKER
- ENCLOSED CIRCUIT BREAKER
- VARIABLE FREQUENCY DRIVE
- MANUAL MOTOR SWITCH
- FIXTURE
- FLOOR
- FLA FULL LOAD AMPS
- FLUOR FLUORESCENT

TYPICAL ABBREVIATION

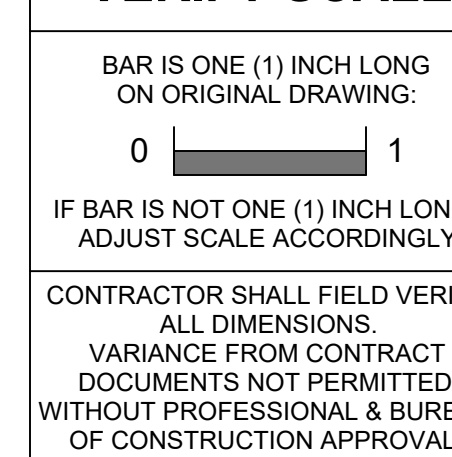
- A, AMP AMPERE
- ABV ABOVE
- AC AIR CONDITIONER
- ACC ACCENT
- ADA AMERICANS WITH DISABILITIES ACT
- ADJ ADJUSTABLE
- AF AMP FRAME
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AIC AMPERES INTERRUPTING CURRENT
- AL ALUMINUM
- AM AMMETER
- APPROX APPROXIMATE
- ASY ASYMMETRIC
- AT AMP TRIP
- ATS AUTOMATIC TRANSFER SWITCH
- AVC AUDIO/VISUAL CONTRACTOR
- AWG AMERICAN WIRE GAGE
- BATT BATTERY
- BKR BREAKER
- BLDG BUILDING
- BLK BLACK
- C, CND CONDUIT
- CAB CABINET
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CBCT CONTACTOR (NORMALLY OPEN)
- CCTV CLOSED CIRCUIT TELEVISION
- CH CABINET HEATER
- CIR, CKT CIRCUIT
- CLF CURRENT LIMITING FUSE
- CLG CEILING
- CLR CLEAR
- COL COLUMN
- COMM COMMUNICATION
- CONC CONCRETE
- CONN CONNECTION
- CONTR CONTRACTOR
- CT CURRENT TRANSFORMER
- CU COPPER
- CW COOL WHITE
- D DEDICATED CIRCUIT
- DB DECIBEL
- DED DEDICATED
- DIA DIAMETER
- DISC DISCONNECT
- DN DOWN
- DP DISTRIBUTION PANEL
- DRPT DOUBLE POLE DOUBLE - THROW
- DWG(S) DRAWING(S)
- EA EACH
- EC ELECTRICAL CONTRACTOR
- EF EXHAUST FAN
- ELEC ELECTRIC
- ELEV ELEVATOR
- EMER, EM, E EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- EO ELECTRICALLY OPERATED
- EQUIP EQUIPMENT
- ESB ENERGY SAVINGS BALLAST
- EWG ELECTRIC WATER COOLER
- EX, EXIST EXISTING TO REMAIN
- EXD EXISTING TO BE DEMOLISHED
- EXR EXISTING TO BE RELOCATED
- FA FIRE ALARM
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FAGP FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
- FC FOOTCANDLES
- FIXT FIXTURE
- FL FLOOR
- FLA FULL LOAD AMPS
- FLUOR FLUORESCENT
- FSS FUSED SAFETY SWITCH
- FT FOOT OR FEET
- FVNR FULL VOLTAGE NON-REVERSING
- G or GND GROUND
- GALV GALVANIZED
- GC GENERAL CONTRACTOR
- GEN GENERATOR
- GFCI or GFI GROUND FAULT CIRCUIT INTERRUPTING
- GFP GROUND FAULT PROTECTION
- HID HIGH INTENSITY DISCHARGE
- H-O-A HAND-OFF-AUTOMATIC
- HP HORSEPOWER
- HT HEIGHT
- HV HIGH VOLTAGE
- HVAC HEATING, VENTILATING, & AIR CONDITIONING
- HZ HERTZ
- IG ISOLATED GROUND
- IN INCH
- INCAN INCANDESCENT
- INTLK INTERLOCK
- JB JUNCTION BOX
- KV KILOVOLT
- KVA KILOVOLT - AMPERES
- KVAR KILOVOLT AMPERES REACTIVE
- KW KILOWATT
- KWH KILOWATT-HOUR
- LA LIGHTNING ARRESTER
- LT LIGHT
- LTG LIGHTING
- LOC LOCAL OPERATING CONSOLE
- LV LOW VOLTAGE
- MATV MASTER ANTENNA TELEVISION
- MC MECHANICAL CONTRACTOR
- MC METAL - CLAD CABLE
- MCC MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MDP MAIN DISTRIBUTION PANEL
- MFR MANUFACTURE
- MH MANHOLE
- MH METAL HALIDE
- MIN MINIMUM
- MISC MISCELLANEOUS
- MLO MAIN LUGS ONLY
- MOD MOTOR OPERATED DAMPER
- MOV MOTOR OPERATED VALVE
- MTD MOUNTED
- MTG MOUNTING
- MTS MANUAL TRANSFER SWITCH
- MV MEDIUM VOLTAGE
- NAC NOTIFICATION APPLIANCE CIRCUIT
- NC NORMALLY CLOSED
- NEUT NEUTRAL
- NFSS NON FUSED SAFETY SWITCH
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT
- NO or # NUMBER
- NTS NOT TO SCALE
- OC ON CENTER
- OH OVERHEAD
- P POLE OR PUMP
- PB PULL BOX
- PC PLUMBING CONTRACTOR
- PH PHASE
- PNL PANEL
- PP POWER PANEL
- PRI PRIMARY
- PT POTENTIAL TRANSFORMER
- PVC POLYVINYL CHLORIDE
- RECEPT RECEPTACLE
- REF REFERENCE
- REFL REFLECTOR
- REQ REQUIRED
- RGS RIGID GALVANIZED STEEL CONDUIT
- RM ROOM
- RS RAPID START
- SCH SCHEDULE
- SEC SECONDARY
- SECT SECTION
- SHT SHEET
- SPD SURGE PROTECTIVE DEVICE
- SPDT SINGLE POLE DOUBLE - THROW
- SPEC SPECIFICATION
- SPST SINGLE POLE SINGLE - THROW
- SS SUBSTATION
- SSB SOLID STATE BALLAST
- STD STANDARD
- SW SWITCH
- SMBD SWITCHBOARD
- TEL TELEPHONE
- TL TWIST LOCK
- TT TWIN TUBE
- TYP TYPICAL
- UC UNDERCOUNTER
- UG UNDERGROUND
- UH UNIT HEATER
- UL UNDERWRITERS LABORATORIES
- UON UNLESS OTHERWISE NOTED
- UPS UNINTERRUPTABLE POWER SUPPLY
- UV UNIT VENTILATOR
- V VOLTS
- VCB VACUUM CIRCUIT BREAKER
- VM VOLTMETER
- VP VAPOR PROOF
- VT VOLTAGE TRANSFORMER
- W WIRE
- W WATT
- WP WEATHERPROOF
- WW WARM WHITE
- XFMR TRANSFORMER

STANDARD MOUNTING HEIGHTS



- FINAL MOUNTING HEIGHTS SHALL BE FIELD COORDINATED AND APPROVED BY THE ARCHITECT PRIOR TO COMMENCING INSTALLATION.
- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSE.
- THE ABOVE MOUNTING HEIGHT FOR FIRE ALARM DEVICES SHALL BE ADHERED TO UNLESS OTHERWISE APPROVED BY THE ENGINEER. THESE HEIGHTS ARE INTENDED TO CONFORM TO AMERICANS WITH DISABILITIES ACT AND NATIONAL, STATE, AND LOCAL CODES. THE CONTRACTOR SHALL VERIFY CONFORMANCE PRIOR TO COMMENCING INSTALLATION.

VERIFY SCALE



REV SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

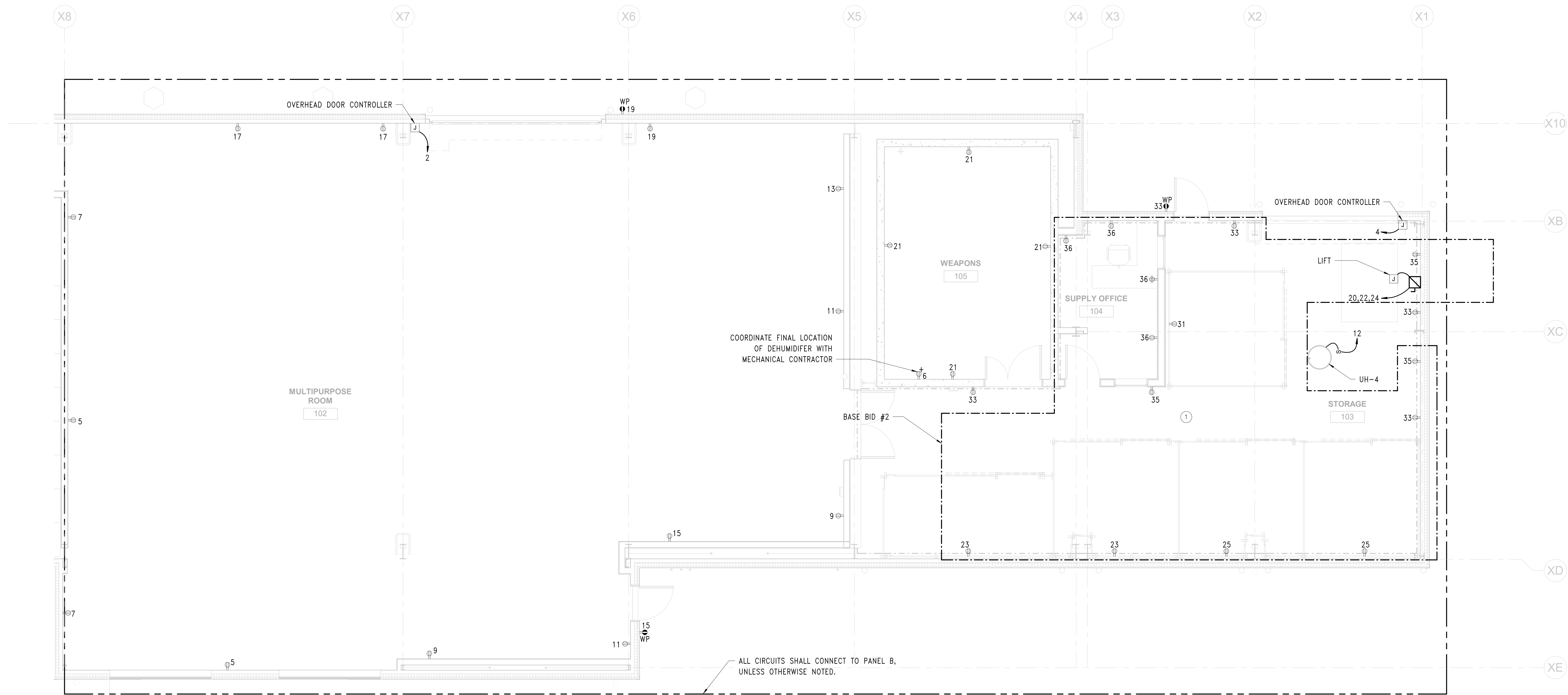
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT NO:
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

LEGEND AND ABBREVIATIONS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TB	DATE 08/26/2024	DRAWING NO. E-000
	CHECKED BY TB	SCALE AS NOTED	



1 FIRST FLOOR NEW WORK POWER PLAN - EAST
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

NEW WORK NOTES

- 1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING FROM THE PANELBOARD FOR ALL BASE BID #2 CIRCUITS. CONDUITS SHALL STUB INTO STORAGE ROOM 103 AND WIRING SHALL TERMINATE INTO JUNCTION BOXES. ALL JUNCTION BOXES SHALL BE LABELED WITH CIRCUIT INFORMATION.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE

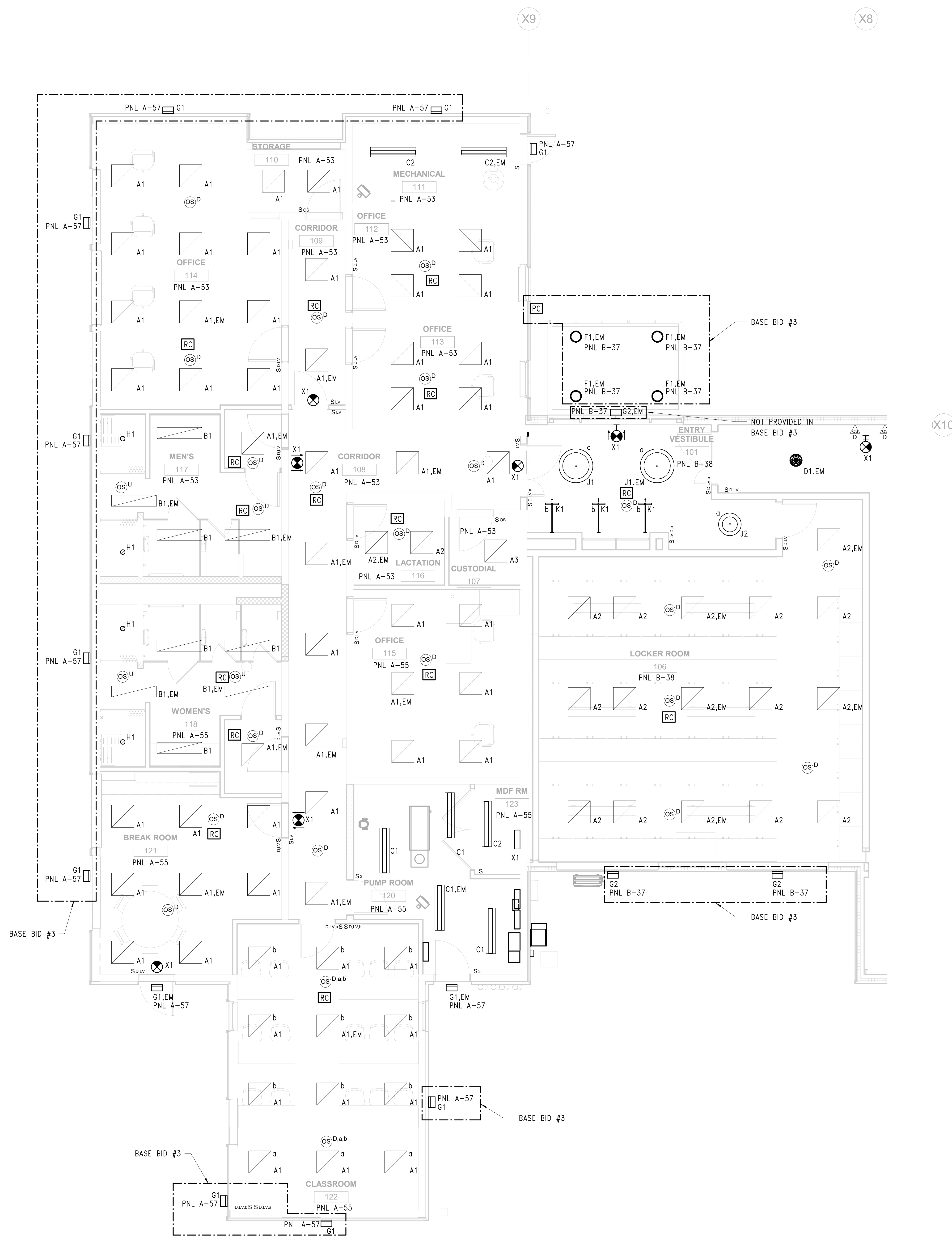
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1

IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No.
CHECKED BY TB	SCALE AS NOTED	E-101

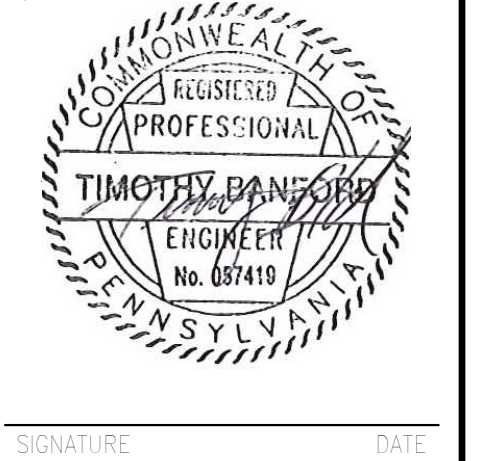
E-101



1 FIRST FLOOR NEW WORK LIGHTING PLAN - WEST
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



ZIMMERMAN STUDIO
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

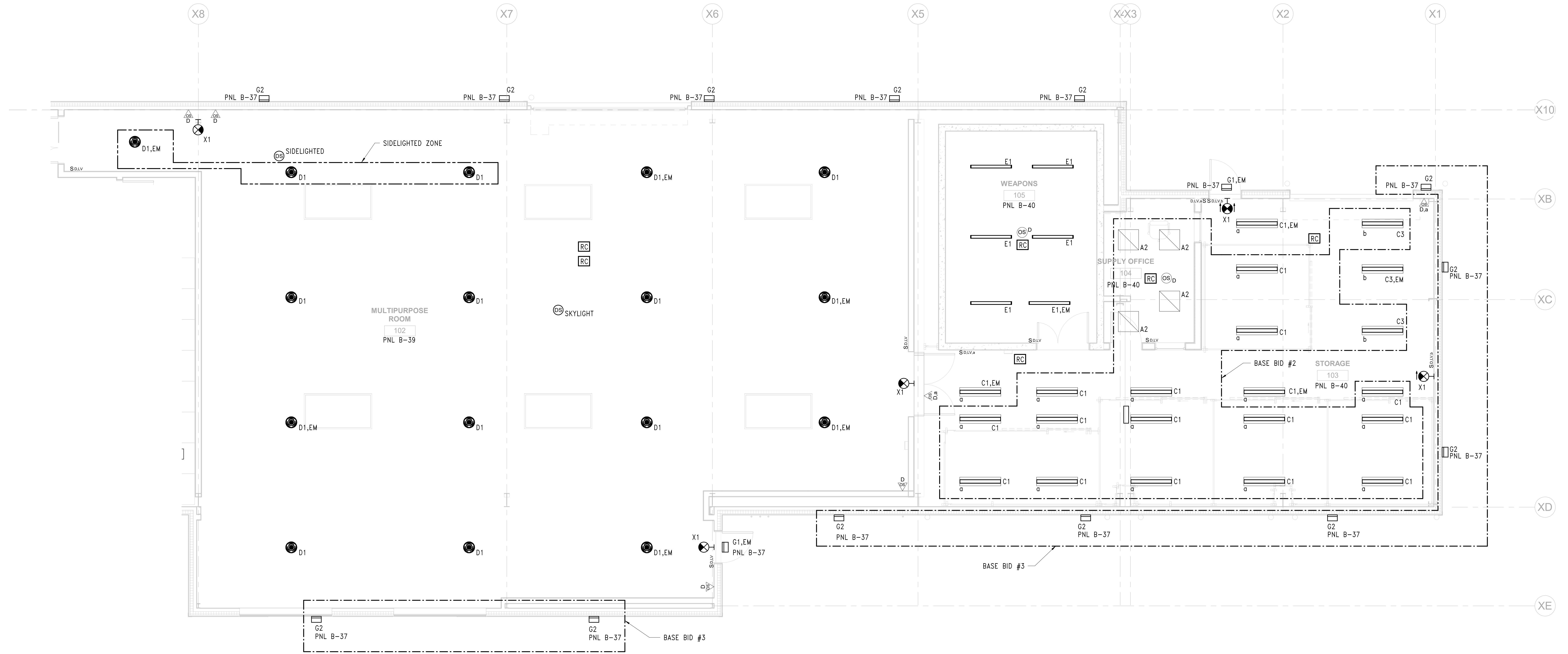
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

NEW LIGHTING PLAN - WEST

VERIFY SCALE
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG,
ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY
ALL DIMENSIONS.
VARIANCE FROM CONTRACT
DOCUMENTS NOT PERMITTED
WITHOUT PROFESSIONAL & BUREAU
OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-102
CHECKED BY TB	SCALE AS NOTED	



1 FIRST FLOOR NEW WORK LIGHTING PLAN - EAST
1/4" = 1'-0"

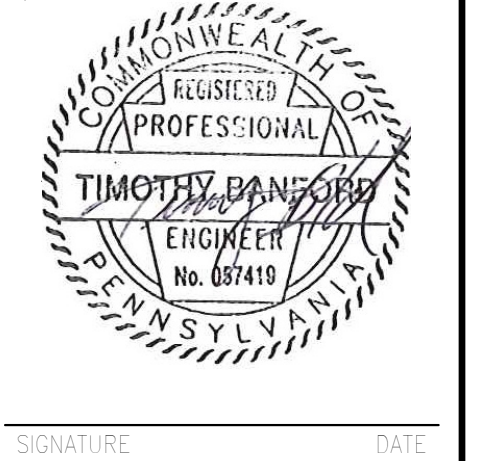
GENERAL NEW WORK NOTES

1. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024	REVISED
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

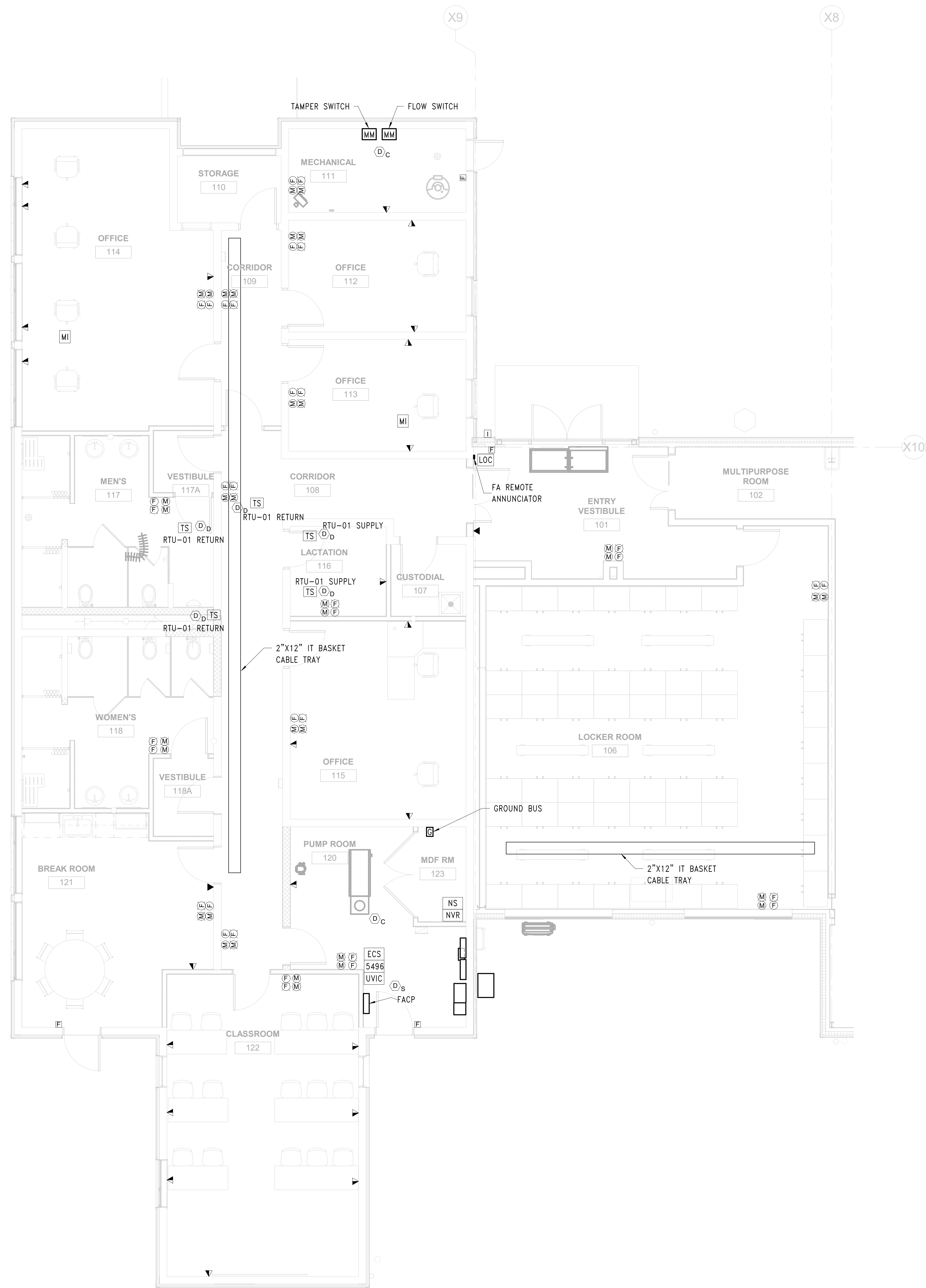
D.C.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

NEW LIGHTING PLAN - EAST

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-103
CHECKED BY TB	SCALE AS NOTED	



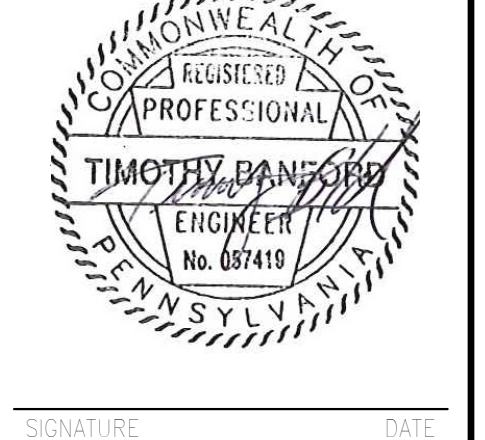
GENERAL NEW WORK NOTES

- DUCT DETECTOR TEST SWITCHES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNER.

1 FIRST FLOOR NEW WORK LOW VOLTAGE PLAN - WEST
1/4" = 1'-0"

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document = August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

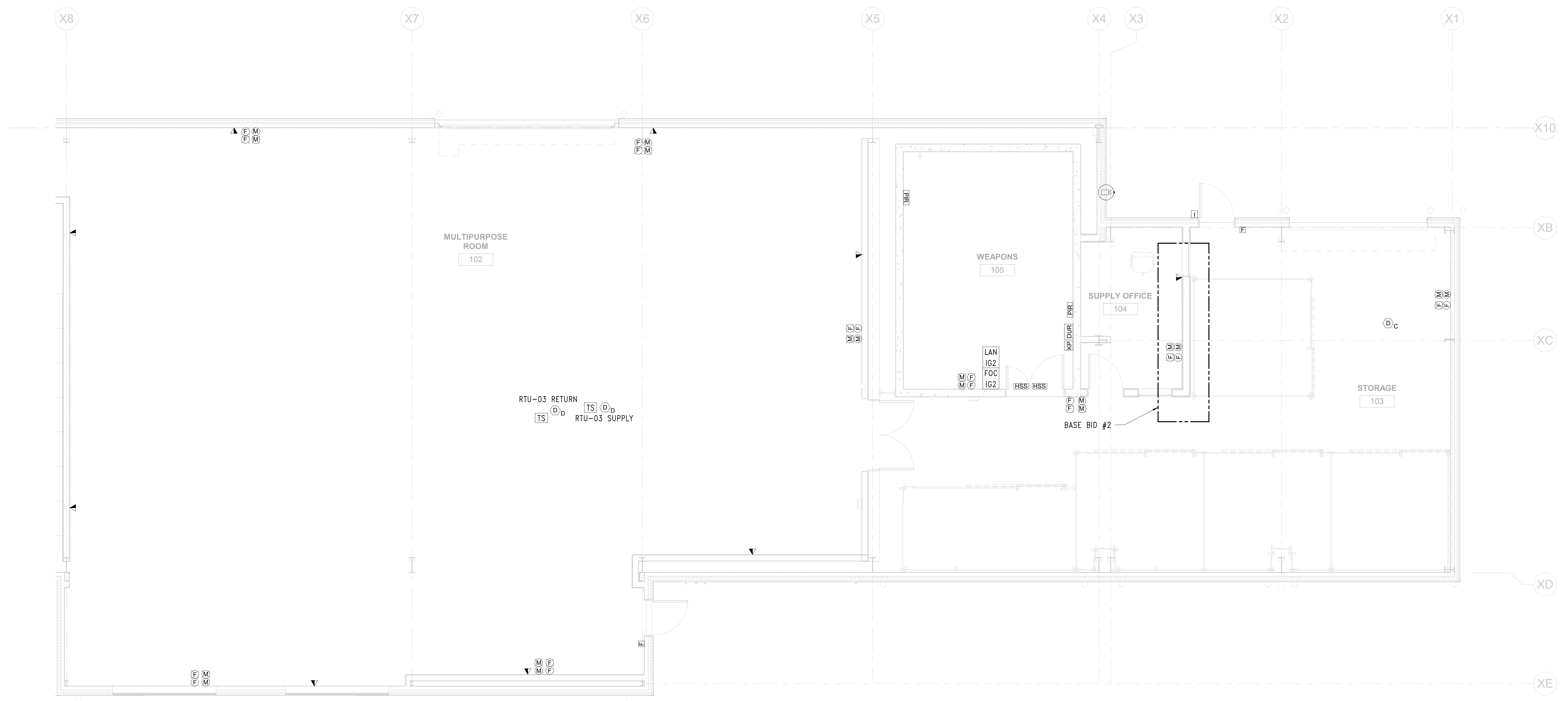
D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

LOW VOLTAGE SYSTEMS - WEST

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-104
CHECKED BY TB	SCALE AS NOTED	



1 FIRST FLOOR NEW WORK LOW VOLTAGE PLAN - EAST
1/4" = 1'-0"

GENERAL NEW WORK NOTES

1. ALL TELE/DATA OUTLET CONDUITS SHALL BE CONTINUOUS TO THE ABOVE CEILING CABLE TRAY IN LOCKER ROOM 106.
2. DUCT DETECTOR TEST SWITCHES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNER.
3. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS	
Construction Document - August 26, 2024	



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

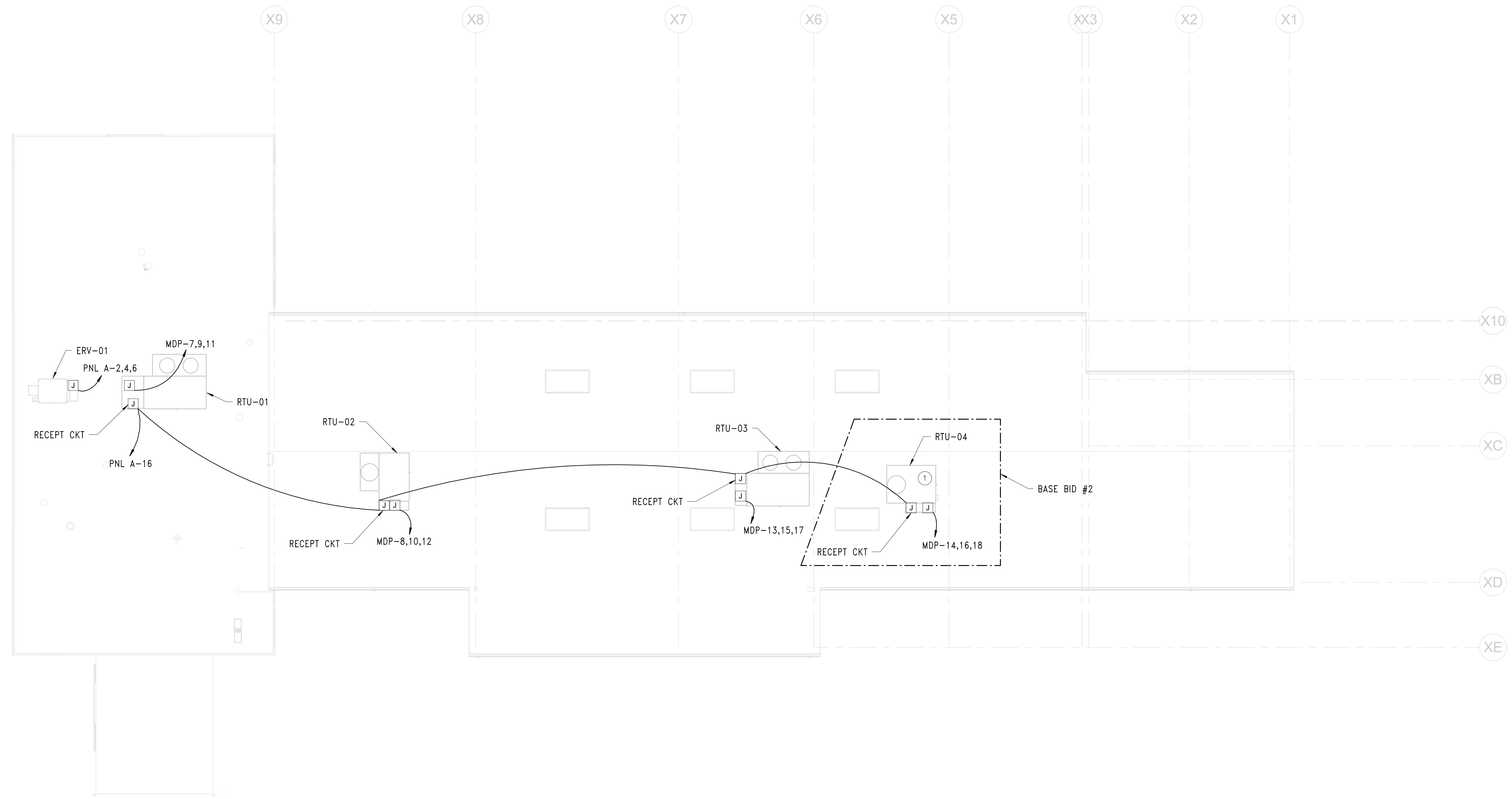
D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

LOW VOLTAGE SYSTEMS - EAST

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-105
CHECKED BY TB	SCALE AS NOTED	



1 ROOF NEW WORK PLAN
1/8" = 1'-0"

NEW WORK NOTES

- 1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING INSTALLED TO THE AREA OF THE FUTURE RTU-4. CIRCUIT SHALL TERMINATE INTO JUNCTION BOX BELOW THE ROOF FOR FUTURE EXTENSION.

BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS
Construction Document = August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

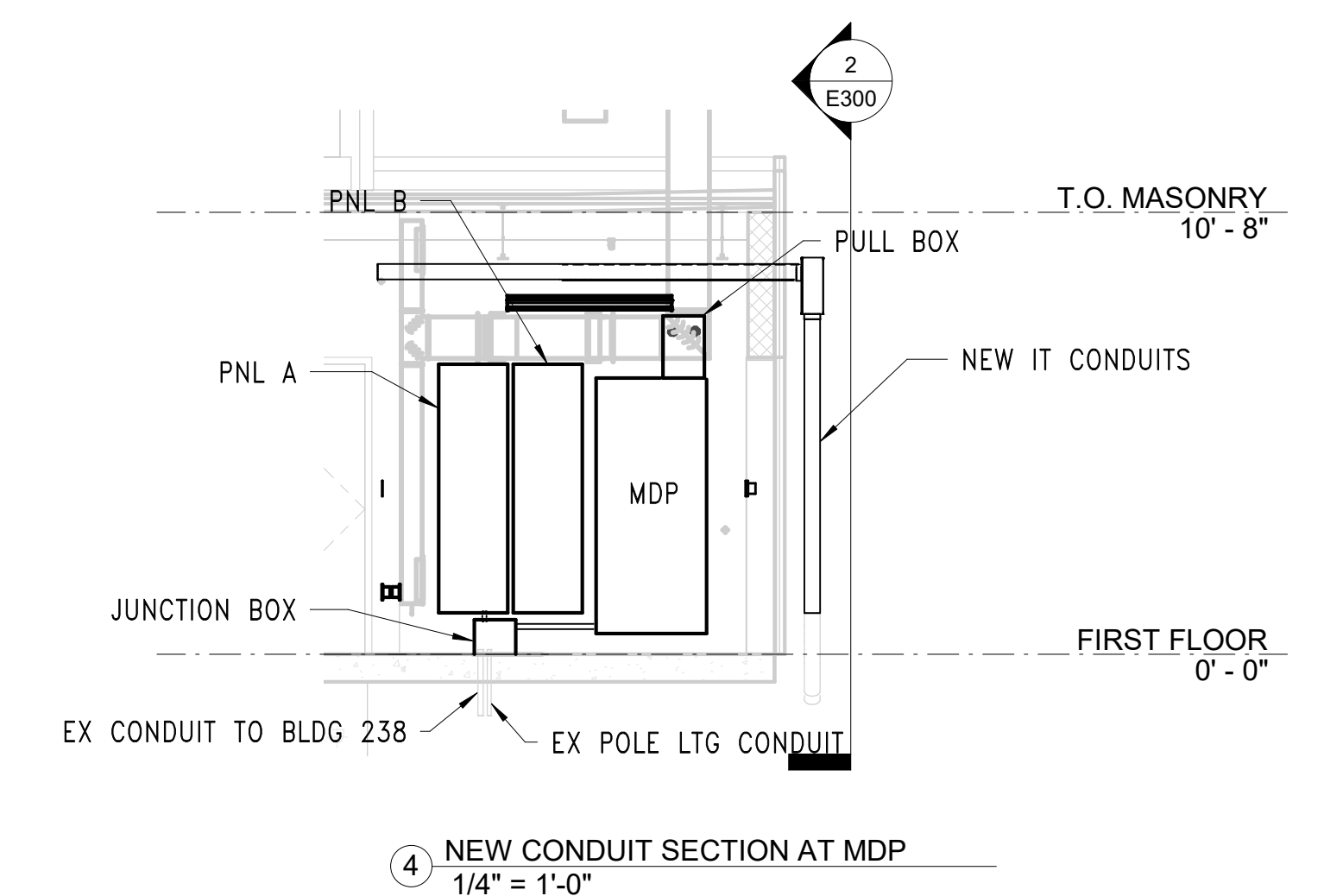
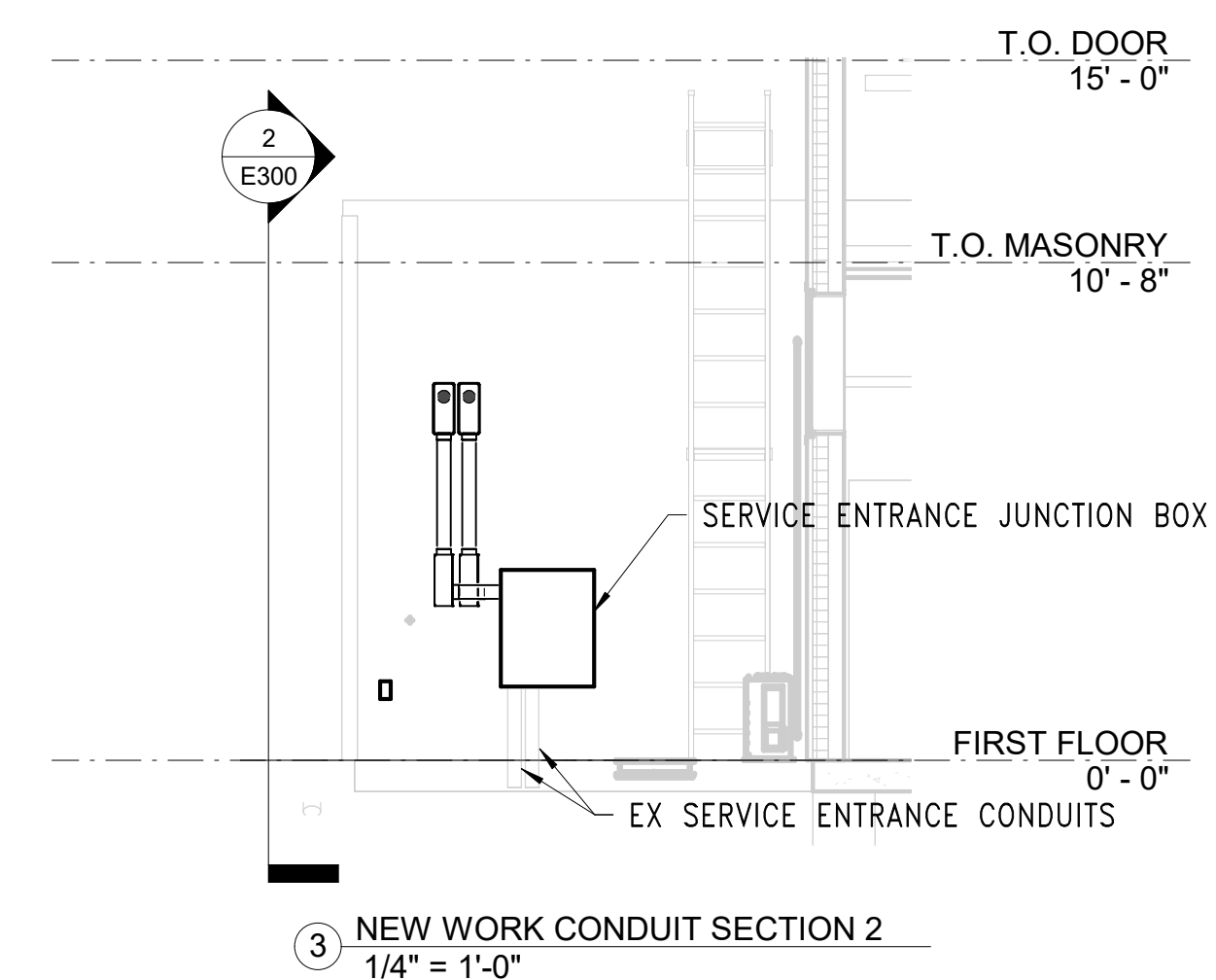
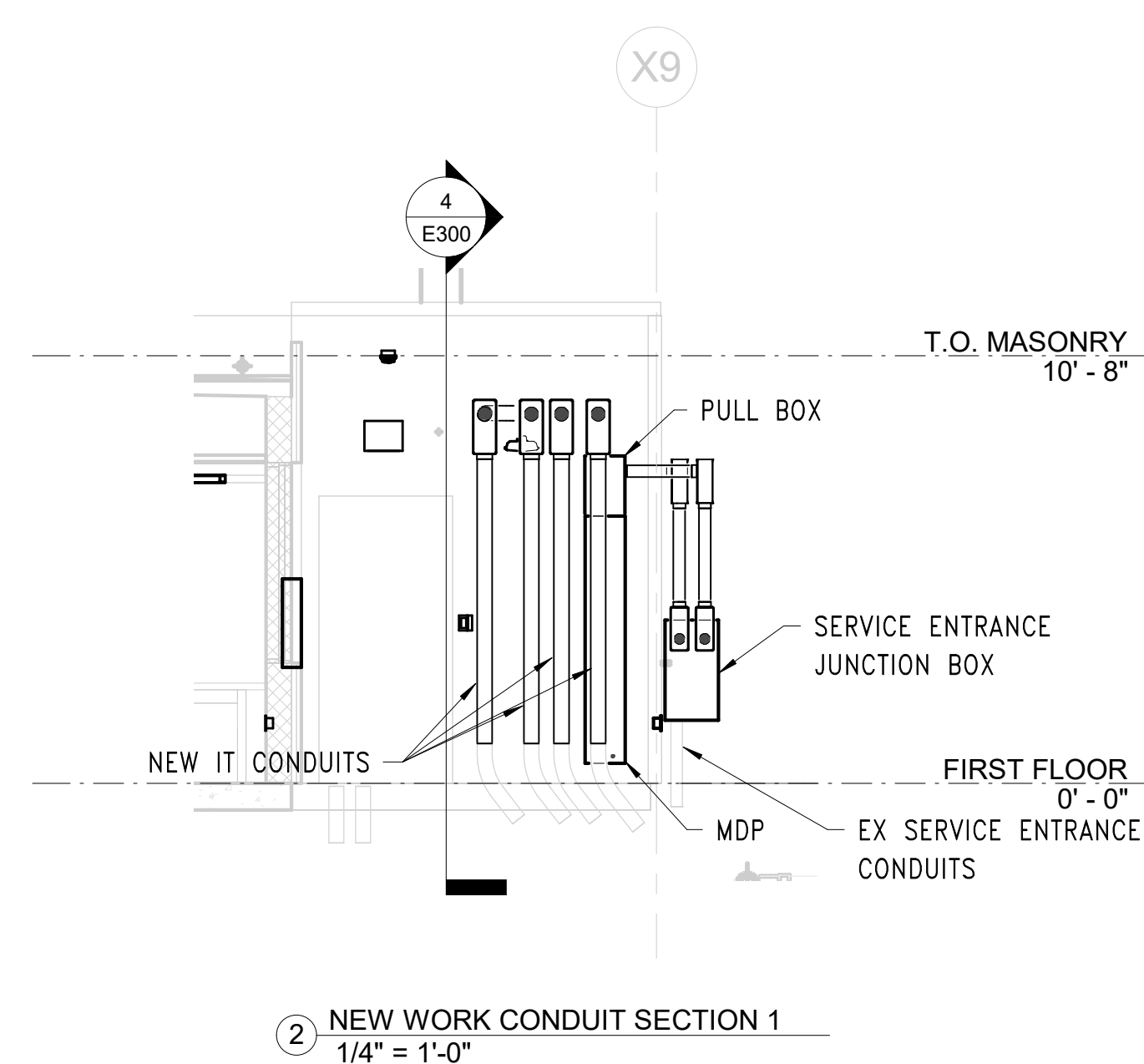
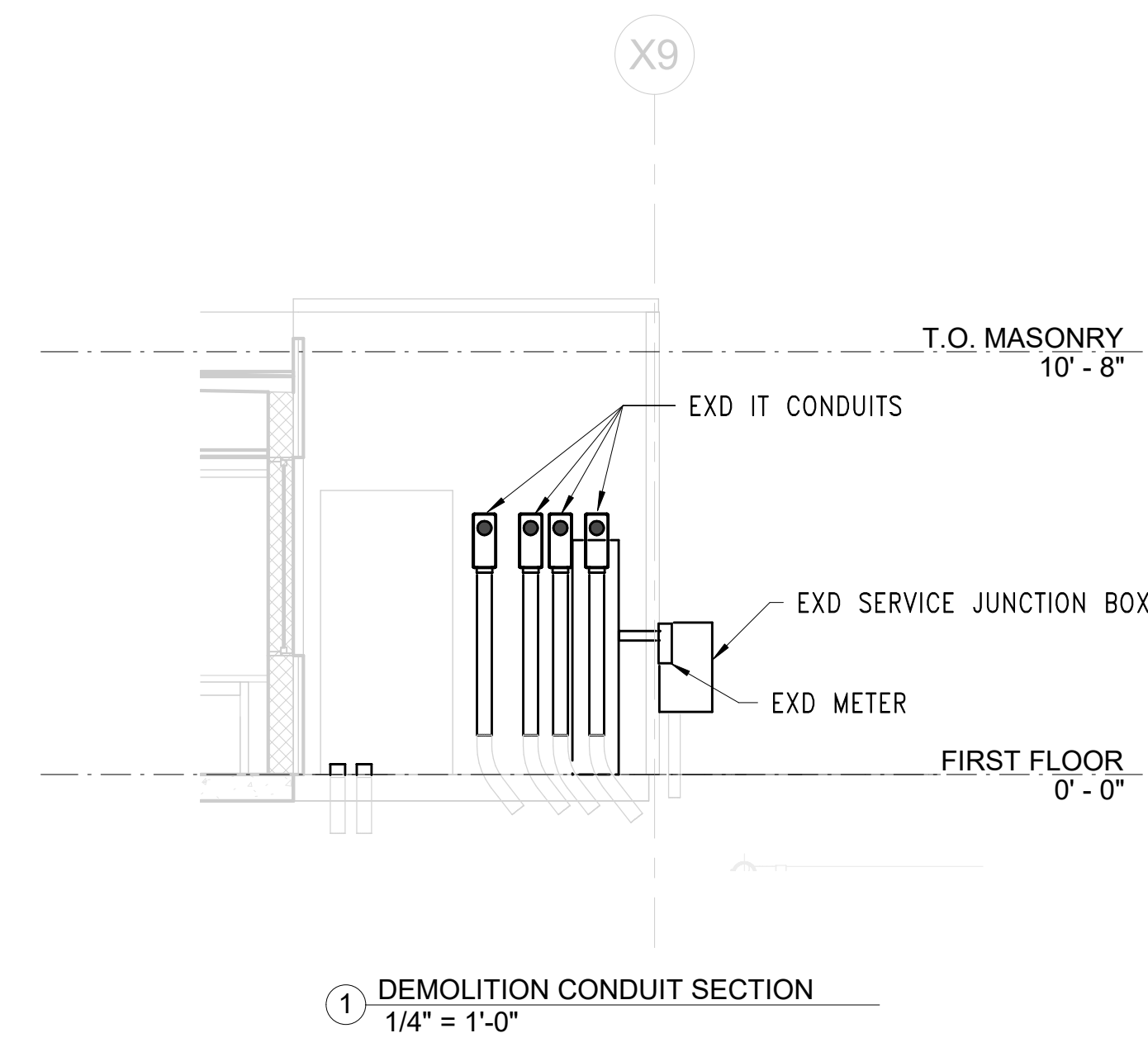
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

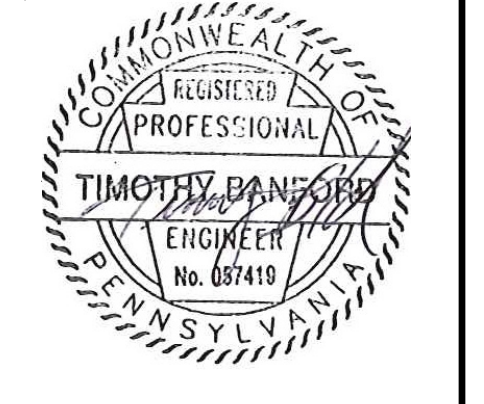
DRAWING No. E-106	
DRAWN BY TB	DATE 08/26/2024
CHECKED BY TB	SCALE AS NOTED



BID SET	08/26/2024	
CONSTRUCTION DOCUMENTS	07/31/2024	REVISED
CONSTRUCTION DOCUMENTS	04/15/2024	
DESIGN DEVELOPMENT-REVISED	02/27/2024	

RECORD REVISIONS

Construction Document = August 26, 2024



ZIMMERMAN STUDIO LLC
ARCHITECTURE + PROJECT MANAGEMENT

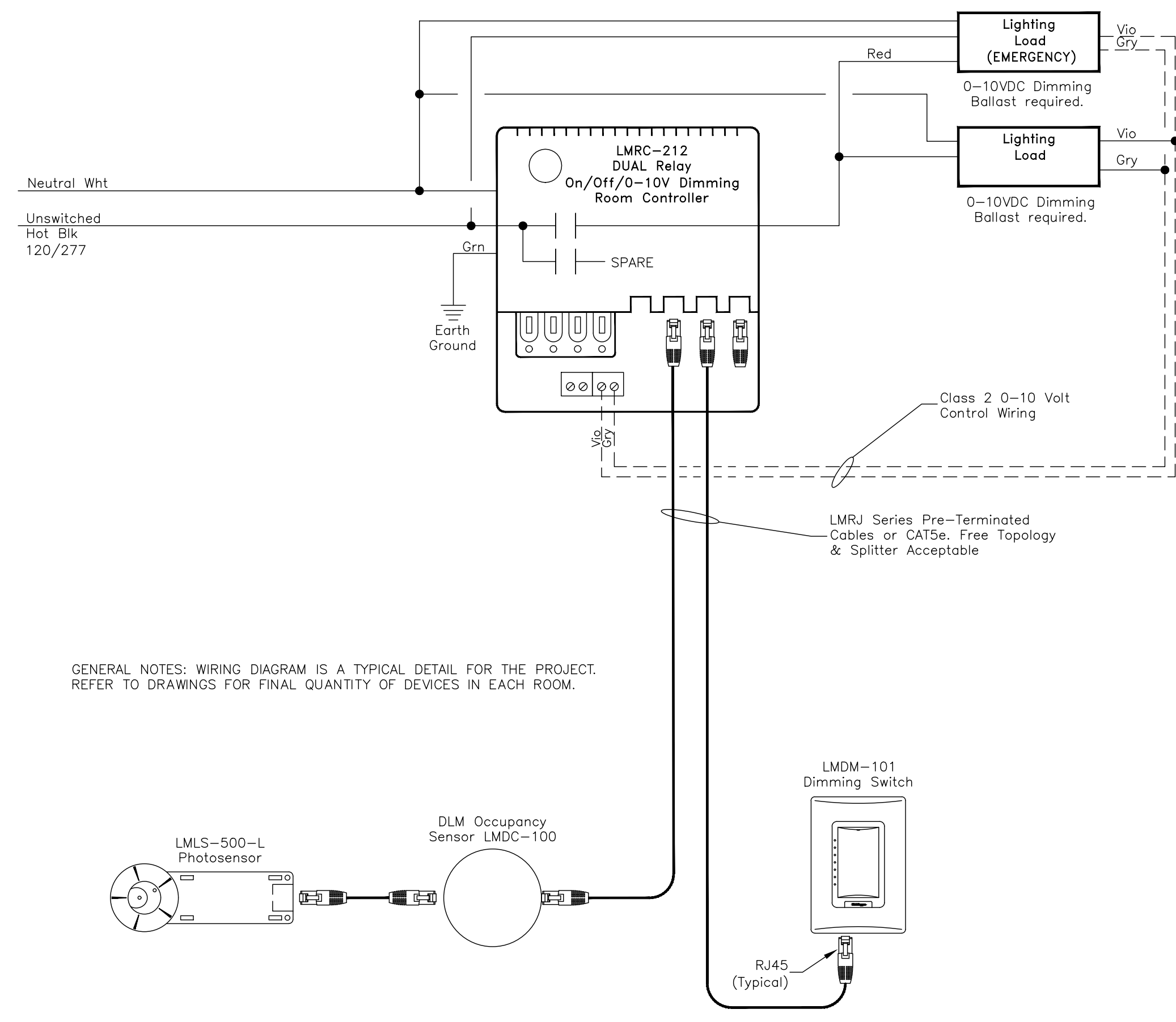
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01

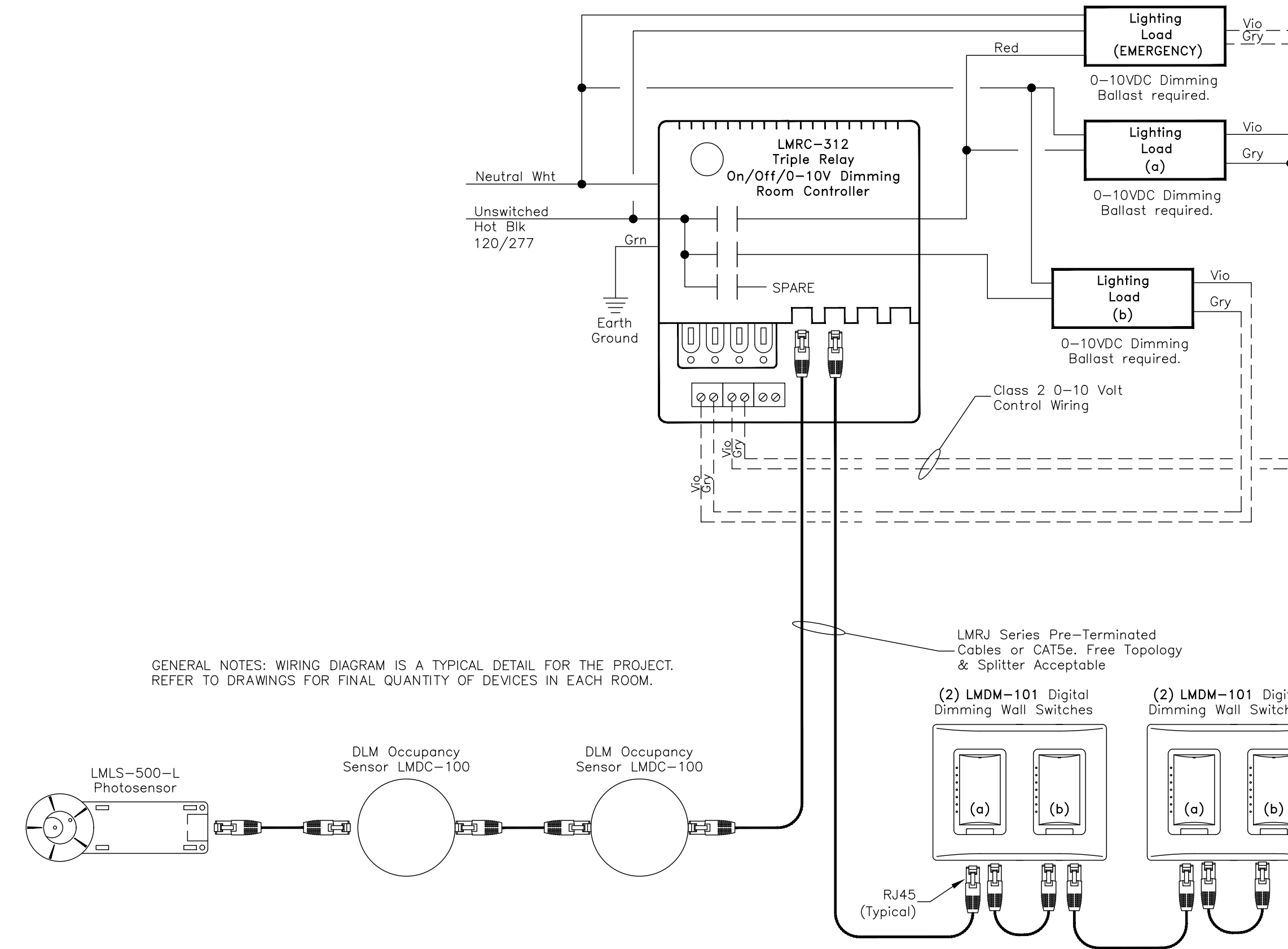
BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

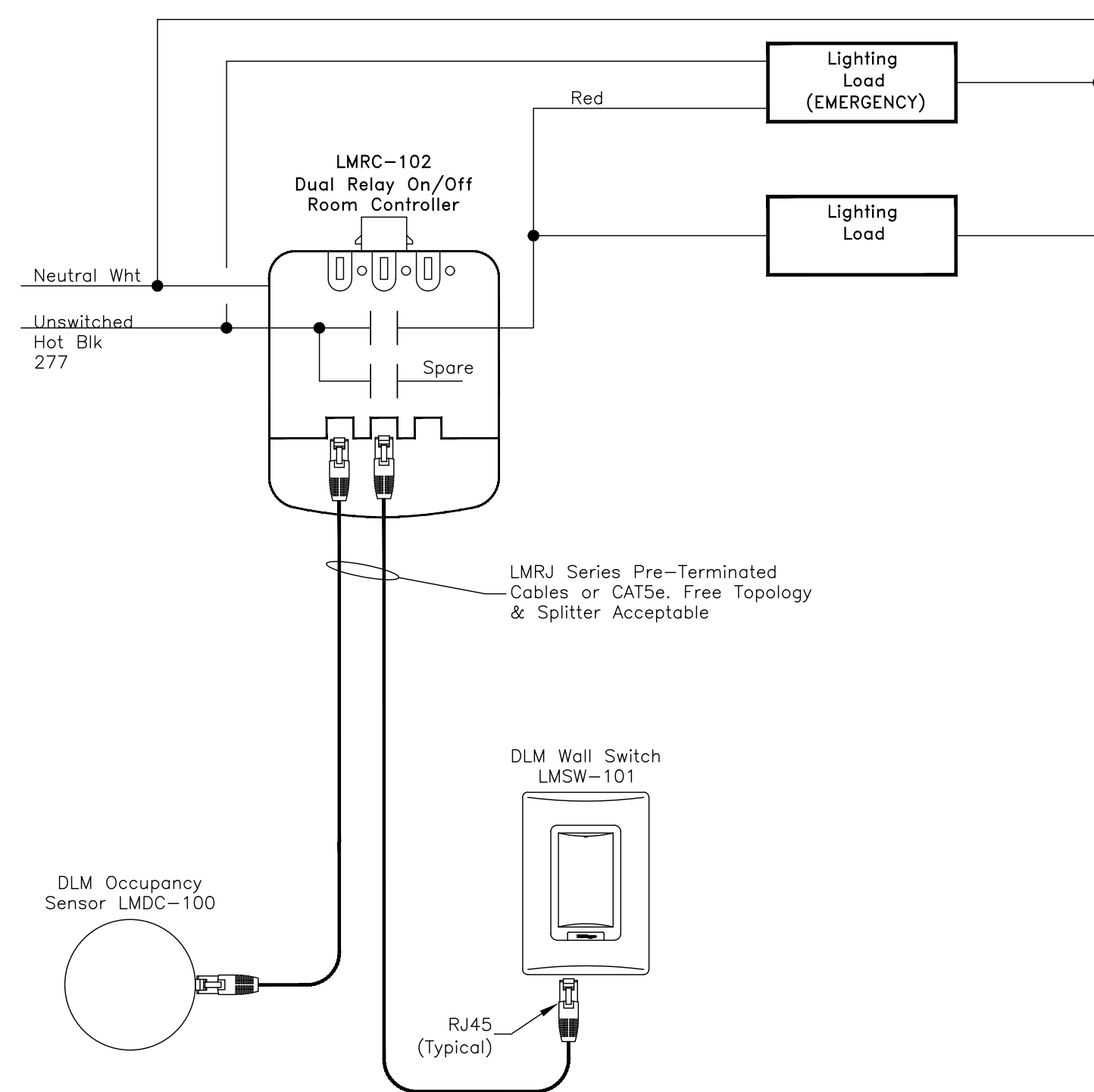
DRAWING No. E-300	
DRAWN BY TB	DATE 08/26/2024
CHECKED BY TB	SCALE AS NOTED



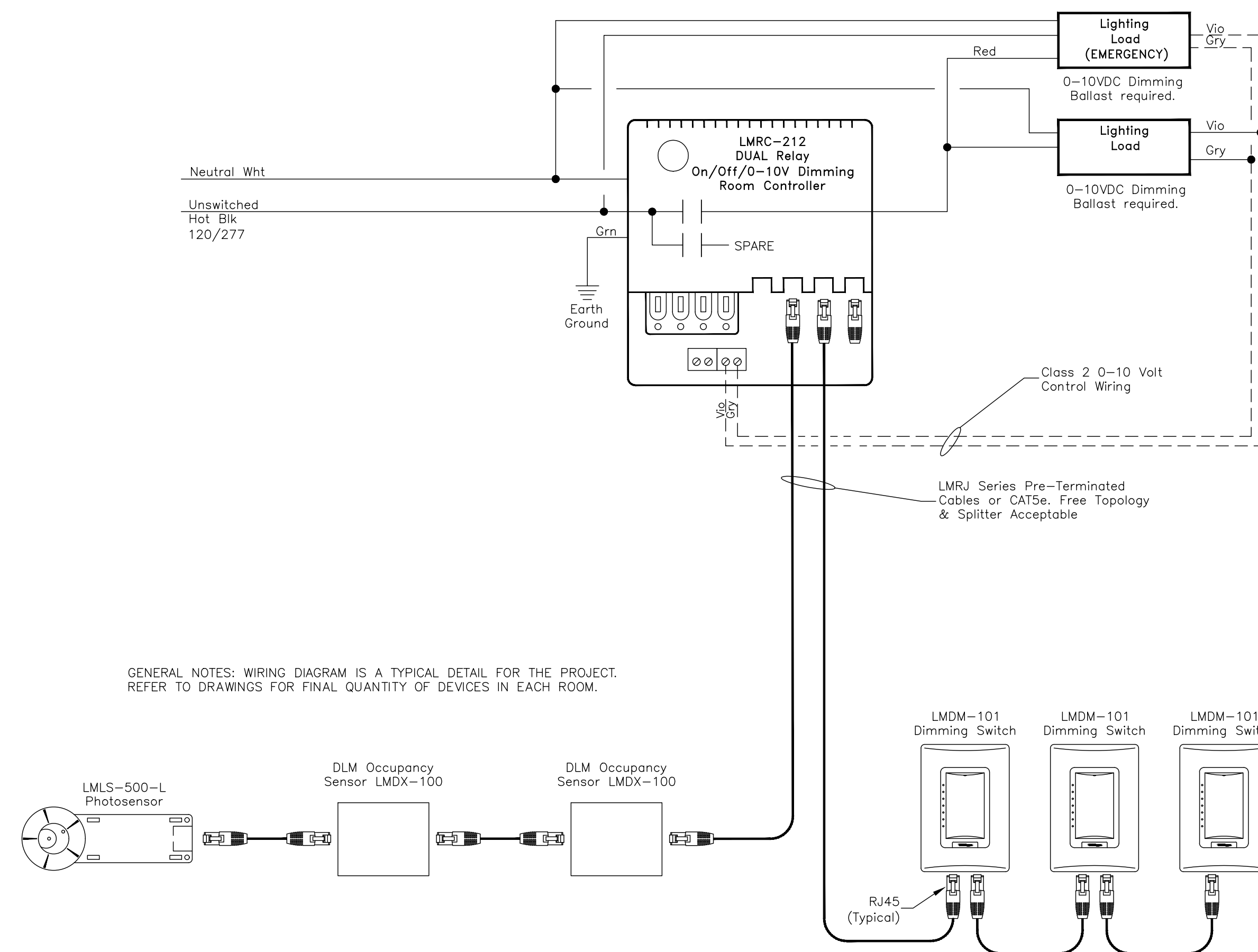
GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.



GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.



GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.



GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.

1 TYPICAL LIGHTING CONTROL WIRING DIAGRAMS (BASED ON WATTSTOPPER)

SCALE: NOT TO SCALE

R/D SET	DESIGN DEVELOPMENT
08/26/2024	01/26/2024
CONSTRUCTION DOCUMENTS	REVISIONS
07/31/2024	
CONSTRUCTION DOCUMENTS	
04/15/2024	
DESIGN DEVELOPMENT-REVISED	
02/27/2024	

RECORD REVISIONS
Construction Document - August 26, 2024



SIGNATURE DATE

ZIMMERMAN STUDIO **INC.**
ARCHITECTURE + PROJECT MANAGEMENT

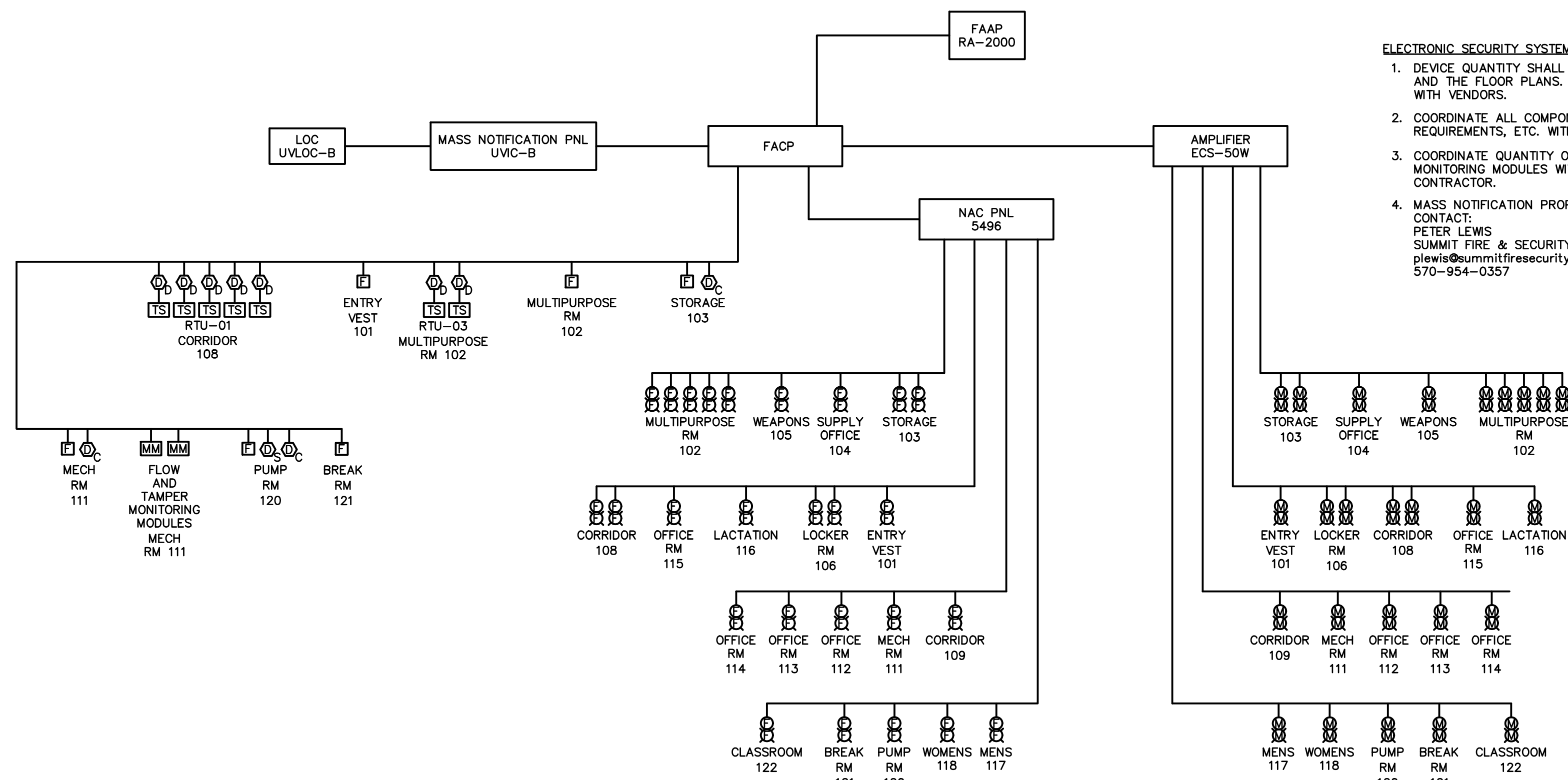
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

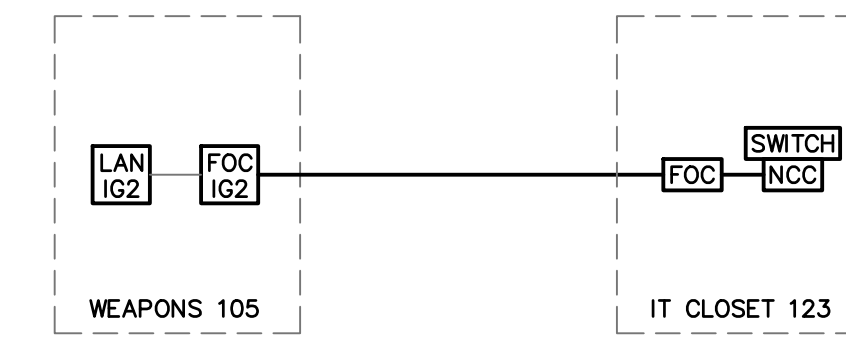
DETAILS		DRAWING No. E-500
DRAWN BY TB	DATE 08/26/2024	
CHECKED BY TB	SCALE AS NOTED	



1 FIRE ALARM/MASS NOTIFICATION RISER DIAGRAM
E501 SCALE: NOT TO SCALE

ELECTRONIC SECURITY SYSTEM (ESS) NOTES:

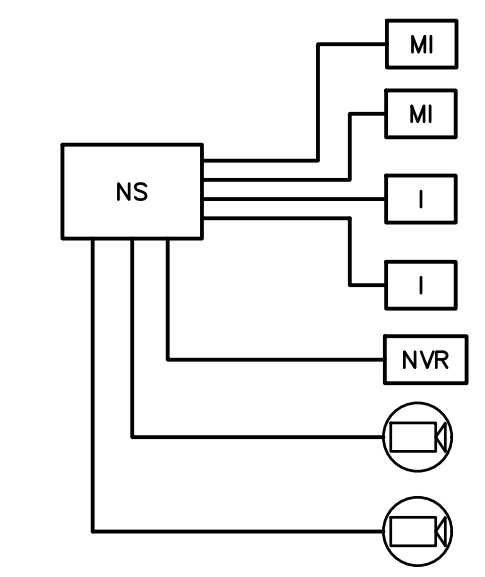
1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH VENDORS.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH VENDOR.
3. COORDINATE QUANTITY OF FLOW AND TAMPER MONITORING MODULES WITH FIRE PROTECTION CONTRACTOR.
4. MASS NOTIFICATION PROPRIETARY SYSTEM VENDOR CONTACT:
PETER LEWIS
SUMMIT FIRE & SECURITY
plewis@summitfiresecurity.com
570-954-0357



2 INTRUSION DETECTION SYSTEM RISER DIAGRAM
E501 SCALE: NOT TO SCALE

INTRUSION DETECTION SYSTEM (IDS) RISER NOTES:

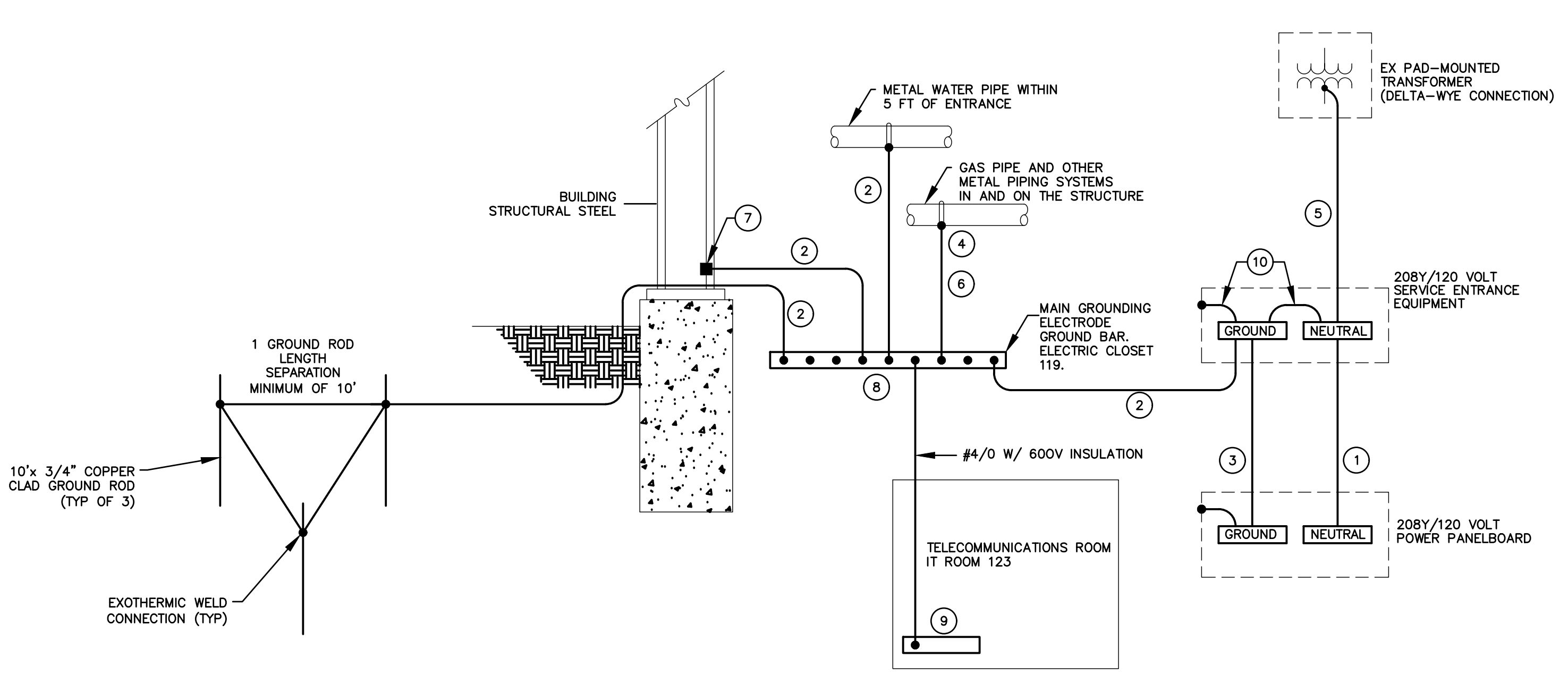
1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH PROPRIETARY VENDOR.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
3. THE IDS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT:
EMILY A. STAGGS
DIRECTOR OF SALES AND DESIGN
ADVANTOR SYSTEMS CORPORATION
STAGGS@ADVANTOR.COM
407-926-8929 OFFICE
407-375-3518 CELL



3 ELECTRONIC SECURITY SYSTEM RISER DIAGRAM
E501 SCALE: NOT TO SCALE

ELECTRONIC SECURITY SYSTEM (ESS) RISER NOTES:

1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH PROPRIETARY VENDOR.
2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
3. THE ESS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT:
PETER LEWIS
SUMMIT FIRE & SECURITY
plewis@summitfiresecurity.com
570-954-0357



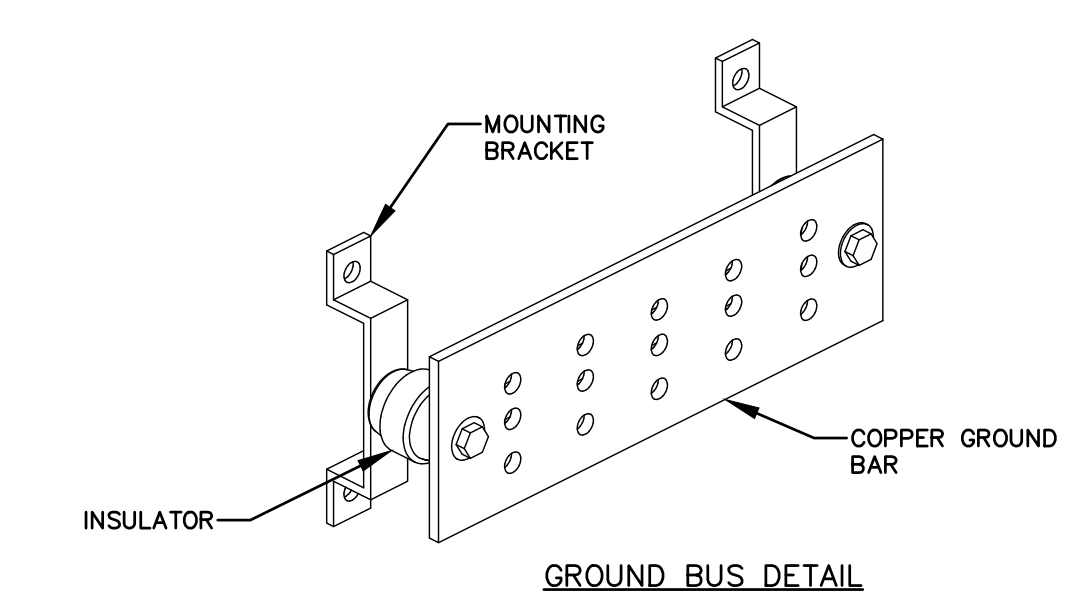
4 GROUNDING SYSTEM DETAIL
E501 SCALE: NOT TO SCALE

KEYED NOTES

1. INSTALL GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
2. INSTALL 2/0 GROUNDING ELECTRODE CONDUCTOR.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE. REFER TO ELECTRICAL SINGLE LINE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
5. EXISTING/EXTENDED GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
6. INSTALL 2/0 BONDING JUMPER.
7. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
8. INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. INSTALL A COPPER GROUNDING BAR IN MAIN TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
10. INSTALL 2/0 BONDING CONDUCTOR.

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.
6. MINIMUM BURIAL DEPTH OF 30".



GROUNDING BUS GENERAL NOTES:

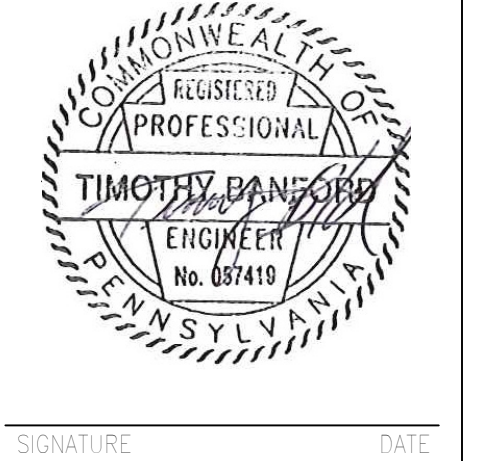
1. REFER TO GROUNDING DETAIL AND FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
2. GROUND BAR SHALL BE SIZED PER NUMBER OF GROUND CONNECTIONS AT GROUND BAR PLUS 20% FOR FUTURE CONNECTIONS.

5 GROUNDING BUS DETAIL
E501 SCALE: NOT TO SCALE

R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

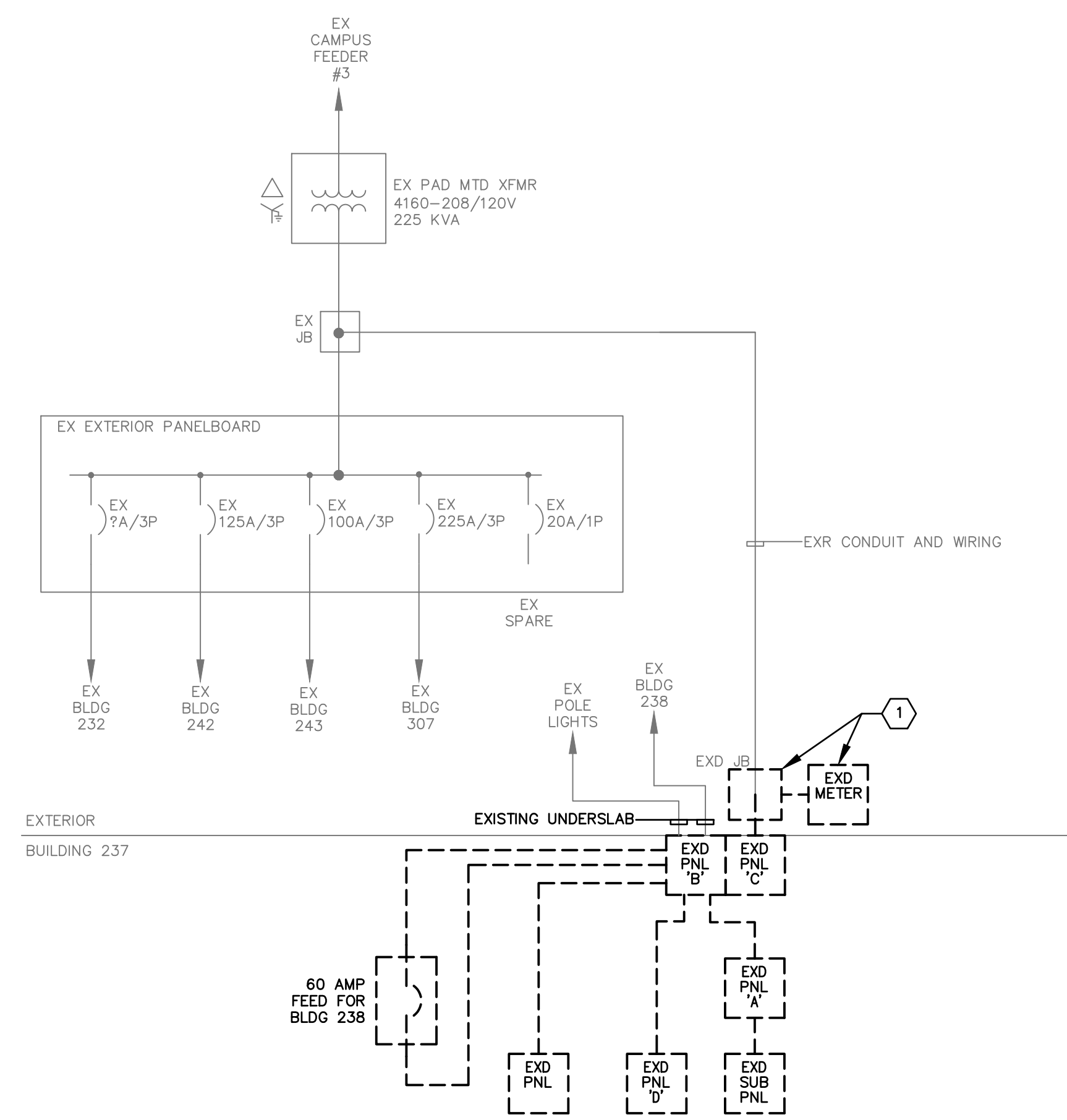
DGS PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

DETAILS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-501
	CHECKED BY TB	SCALE AS NOTED	

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY



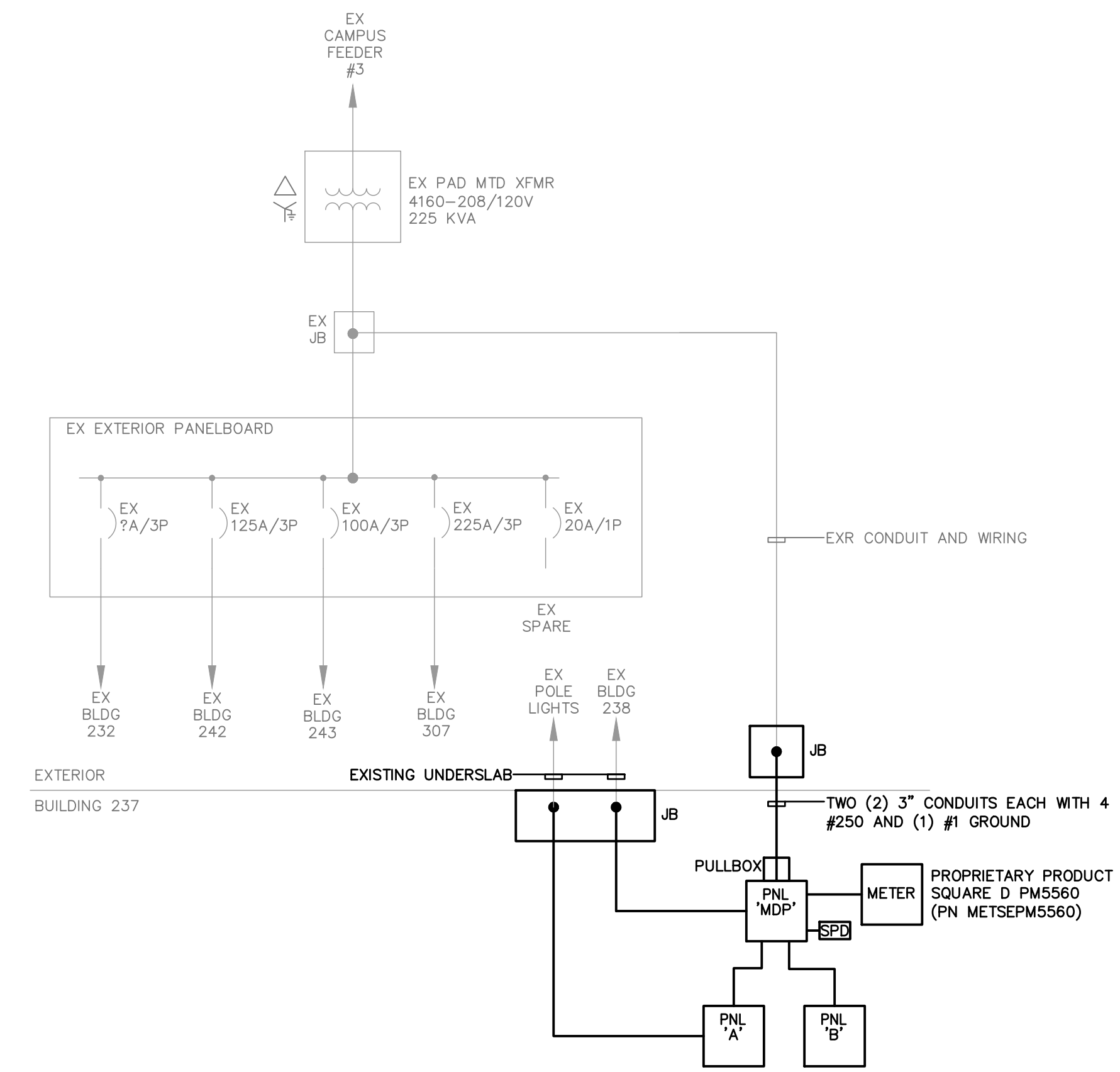
1 DEMOLITION SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES:

- REFER TO PANEL SCHEDULES FOR ADDITIONAL CONDUIT AND WIRING SIZING.

DEMOLITION NOTES:

- REMOVE EXISTING METER. REMOVE EXISTING CURRENT TRANSFORMERS IN THE JUNCTION BOX AND ALL CONDUIT AND WIRING ASSOCIATED WITH METER.



2 NEW WORK SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

R/D SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED	
CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024	

RECORD REVISIONS

Construction Document - August 26, 2024



SIGNATURE DATE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

DGS PROJECT No.
DGS C-0961-0044 PHASE 01

BUILDING 237 RENOVATION
BIDDLE AIR GUARD STATION
HORSHAM, PA 19044

SINGLE LINE DIAGRAMS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY TB	DATE 08/26/2024	DRAWING No. E-600
CHECKED BY TB	SCALE AS NOTED	

Designation:		New Panel			Main Circuit Breaker	
Panel Voltage:					Number of Poles:	
PANEL MDP					600	
208Y/120Volt 3 Phase 4 wire					30	

FEEDER DATA	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP VA	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. TRIP VA	C.B. LOAD VA	LOAD DESCRIPTION	CIR NO	FEEDER DATA
No WIRE GND CONDUIT												No WIRE GND CONDUIT	
4 10 6 2"	1	PANEL 'A'	3	150	9851	15671			6120	3	PANEL 'B'	2	4 10 6 2"
	3				12388		21357		9869	150		4	
	5				12100			18081	8515			6	
	7				6689	9487			2788			8	
	9	RTU-01	3	70	6689		9487		2788	35	RTU-02	10	3 8 10 3/4"
	11				6689			9487	2788			12	
	13				6592	9102			2510			14	
	15	RTU-03	3	70	6592		9102		2510	30	RTU-04	16	3 8 10 3/4"
	17				6592			9102	2510			18	
	19											20	
	21	EX BUILDING 238	3	60						30	SURGE PROTECTIVE DEVICE	22	
	23											24	
	25											26	
	27	SPARE	3	100						100	SPARE	28	
	29											30	

Panel Type: NEMA 1	Phase Conn. 34560	39946	37270	VA
Mounting: Surface	288	333	310	AMPS
Location: PUMP ROOM 120	Total Connected Load	112	KVA	311
Fed From: 225KVA PAD MTD XFMR	Bus Ampacity	600	22	KAIC
FEED THRU LUGS	Voltage	208		
SUB FEED MAIN LUGS	X GROUND BUS			
SPLIT BUS	INSULATED GROUND BUS			
CONTACTOR CONTROLLED	DOUBLE PANEL			
200% RATED NEUTRAL	GFCI BREAKERS			
SURGE PROTECTIVE DEVICE - EXTERNAL	SHUNT TRIP BREAKERS			

Designation:		New Panel			Main Circuit Breaker	
Panel Voltage:					Number of Poles:	
Panel A					MLO	
208Y/120Volt 3 Phase 4 wire					72	

FEEDER DATA	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP VA	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. TRIP VA	C.B. LOAD VA	LOAD DESCRIPTION	CIR NO	FEEDER DATA	
No WIRE GND CONDUIT												No WIRE GND CONDUIT		
9 12 12 3/4"	1	HWR-1 - 1.5HP - PUMP RM 120	3	15	794	1944			1150	15	ERV-01 - ROOF	2	3 12 12 3/4"	
	3				794		1944		1150			4		
	5				794			1944	1150			6		
	7				794	794			20	20	MN-SPLIT SYSTEM FOR MCF ROOM 123	8	2 12 12 3/4"	
	9	HWR-2 - 1.5HP - PUMP RM 120	3	15	794				200	20	BOILER B-1 - PUMP RM 120	10	2 12 12 3/4"	
	11				794			994	240	20	WATER HEATER WH-1 - MECH RM 111	12	2 12 12 3/4"	
	13	UNIT HEATER UH-1 - MECH RM 111	1	20	100	340			240	20	RTU RECEIPTS - ROOF	14	2 12 12 3/4"	
	15	UNIT HEATER UH-2 - PUMP RM 120	1	20	100			820	720	20	SPARE	16	2 12 12 3/4"	
	17	SPARE			1	20						18		
	19	OFFICE 114 RECEIPTS	1	20	900	900				20	3	SPARE	20	
	21	OFFICE 114 RECEIPTS	1	20	1080			1080				22		
	23	MEN'S 117 RECEIPT	1	20	180				180			24		
	25	WOMEN'S 118 RECEIPT	1	20	180				180			26		
	27	BREAK RM 121 COUNTER RECEIPTS	1	20	1500			1500				28		
	29	BREAK RM 121 COUNTER RECEIPTS	1	20	1500			1500				30		
	31	BREAK RM 121 AND EXTERIOR RECEIPTS	1	20	720			720				32		
	33	BREAK RM 121 REFRIG RECEIPTS	1	20	1200			1700		500	2	EXISTING EXTERIOR LTS	34	2 10 10 3/4"
	35	CLASSROOM 122 RECEIPTS	1	20	1260			1760	500			36		
	37	CLASSROOM 122 RECEIPTS	1	20	1260	1265			5	20	1	STORAGE 110 CORRIDOR 108 & 109 RECEIPTS	38	2 12 12 3/4"
	39	CLASSROOM 122 RECEIPTS	1	20	720			1440	720	20	1	EXTERIOR & MECH 111 RECEIPTS	40	2 12 12 3/4"
	41	OFFICE 112 RECEIPTS	1	20	900			1800	900	20	1	OFFICE 113 RECEIPTS	42	2 12 12 3/4"
	43	LACTATION 116 RECEIPTS	1	20	360	540			180	20	1	CUSTOMER 107 RECEIPT	44	2 12 12 3/4"
	45	OFFICE 115 RECEIPTS	1	20	540			1080	540	20	1	OFFICE 115 RECEIPTS	46	2 12 12 3/4"
	47	SPARE	1	20				2000	2000	30	1	MDF RM 123 RECEIPT	48	2 10 10 3/4"
	49	SPARE	1	20				1920	1200	30	1	MDF RM 123 RECEIPT	50	2 10 10 3/4"
	51	PUMP RM 120 & EXTERIOR RECEIPTS	1	20	720			1920	1200	20	1	MDF RM 123 RECEIPT	52	2 12 12 3/4"
	53	LIGHTING ROOMS 107, 108, 109, 110, 111, 112, 113, 114, 116, 117	1	20	768			1988	1200	20	1	MDF RM 123 RECEIPT	54	2 12 12 3/4"
	55	LIGHTING ROOMS 118, 120, 121, 122, 123	1	20	568			1168	600	20	1	FACP	56	2 12 12 3/4"
	57	EXTERIOR LIGHTING WEST SIDE OF BUILDING	1	20	110			110		20	1	EX SPARE	58	2 12 12 3/4"
	59	EX SPARE	1	20						20	1	EX SPARE	60	
	61	EX SPARE	1	20						20	1	EX SPARE	62	
	63	EX SPARE	1	20						20	1	EX SPARE	64	
	65	EX SPARE	1	20						20	1	EX SPARE	66	
	67	EX SPARE	1	20						20	1	EX SPARE	68	
	69	EX SPARE	1	20						20	1	EX SPARE	70	
	71	EX SPARE	1	20						20	1	EX SPARE	72	

Panel Type: NEMA 1	Phase Conn. 9851	12388	12166	VA
Mounting: Surface	82	103	101	AMPS
Location: PUMP ROOM 120	Total Connected Load	34	KVA	96
Fed From: PANEL MDP	Bus Ampacity	225	22	KAIC
FEED THRU LUGS	Voltage	208		
SUB FEED MAIN LUGS	X GROUND BUS			
SPLIT BUS	INSULATED GROUND BUS			
CONTACTOR CONTROLLED	DOUBLE PANEL			
200% RATED NEUTRAL	GFCI BREAKERS			
SURGE PROTECTIVE DEVICE	SHUNT TRIP BREAKERS			

Designation:		New Panel			Main Circuit Breaker	
Panel Voltage:					Number of Poles:	
Panel B					MLO	
208Y/120Volt 3 Phase 4 wire					72	

FEEDER DATA	CIR NO	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP VA	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. TRIP VA	C.B. LOAD VA	LOAD DESCRIPTION	CIR NO	FEEDER DATA	
No WIRE GND CONDUIT												No WIRE GND CONDUIT		
2 12 12 3/4"	1	ENTRY VESTIBULE 101 & EXTERIOR RECEIPTS	1	20	640	1260			720	20	1	OVERHEAD DOOR - MULTIPURPOSE ROOM 102	2	2 10 10 3/4"
	3	LOCKER ROOM 108 RECEIPTS	1	20	720		1440		720	20	1	OVERHEAD DOOR - STORAGE ROOM 103	4	2 10 10 3/4"
	5	MULTIPURPOSE RM 102 RECEIPTS	1	20	360		1030		670	20	1	SMOKER RECEIPT - MECKONS 105	6	2 10 10 3/4"
	7	MULTIPURPOSE RM 102 RECEIPTS	1	20	360	940			580	20	2	UH-3 - VESTIBULE 101	8	2 10 10 3/4"
	9	MULTIPURPOSE RM 102 RECEIPTS	1	20	360			940	580	20	1	UH-4 - STORAGE 103	10	2 10 10 3/4"
	11	MULTIPURPOSE RM 102 RECEIPTS	1	20	360			960	500	20	1	SPARE	12	2 10 10 3/4"
	13	MULTIPURPOSE RM 102 RECEIPTS	1	20	180	180				20	1	SPARE	14	
	15	MULTIPURPOSE RM 102 & EXTERIOR RECEIPTS	1	20	360			360		20	2	SPARE	16	
	17	MULTIPURPOSE RM 102 RECEIPTS	1	20	360					20	1	SPARE	18	
	19	MULTIPURPOSE RM 102 AND EXTERIOR RECEIPTS	1	20	360	2365			2005				20	
	21	WEAPONS 105 RECEIPTS	1	20	720		2725		2005	30	3	LIFT - STORAGE 103	22	3 4 6 1-1/4"
	23	STORAGE 103 RECEIPTS	1	20	360			2885	2005				24	
	25	STORAGE 103 RECEIPTS	1	20	360	960							26	
	27	SPARE	1	20	180			180		20	2	SPARE	28	
	29	SPARE	1	20	180			180					30	
	31	STORAGE 103 RECEIPTS	1	20	180					20	3	SPARE	32	3 12 12 3/4"
	33	STORAGE 103 RECEIPTS	1	20	720			720					34	
	35	STORAGE 103 AND EXTERIOR RECEIPTS	1	20	720			1620	900	20	1	SUPPLY OFFICE 104 RECEIPTS	36	2 10 10 3/4"
	37	EXTERIOR LIGHTS (3)	1	20	835				507	20	1	LIGHTING ROOMS 101, 108	38	2 12 12 3/4"
	39	LIGHTING MULTIPURPOSE ROOM 102	1	20	1696		2604		908	20	1	LIGHTING ROOMS 103, 104, 105	40	2 10 10 3/4"
	41		1	20						20	1		42	
	43		1	20						20	1		44	
	45		1	20						20	1		46	
	47		1	20						20	1		48	
	49		1	20						20	1		50	
	51		1	20						20	1		52	
	53		1	20						20	1		54	
	55		1	20						20	1		56	
	57		1	20						20	1		58	
	59		1	20						20	1		60	
	61		1	20						20	1		62	
	63		1	20						20	1		64	