

THE CITY OF SOUTH LEBANON
WARREN COUNTY, OHIO



MSPDESIGNMcGill Smith Punshon

■ Architecture
■ Engineering
■ Landscape Architecture
■ Planning
■ Surveying

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Project Manager RA
Drawn By REL
DWG 06308124-COV-00 - FINAL
X-Ref(s) ---

Issue/Revision	No.	Date
PTI SUBMITTAL		
BID/PERMIT	8/15/25	



RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
THE CITY OF SOUTH LEBANON
WARREN COUNTY, OHIO

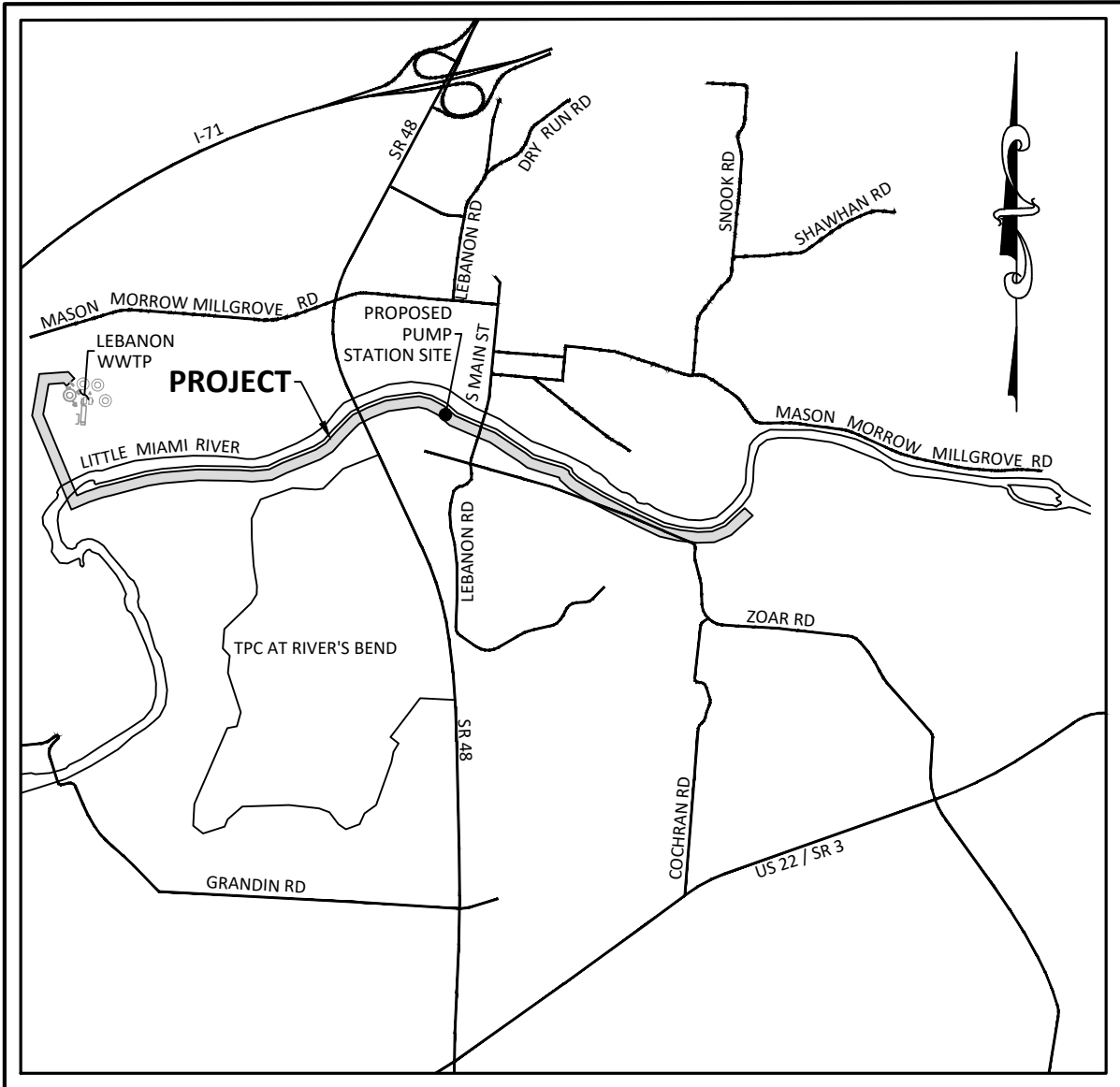
RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES THE DESIGN OF A PUBLIC SANITARY SEWER AND A PUBLIC FORCE MAIN THAT IS LOCATED PRIMARILY ALONG THE LITTLE MIAMI SCENIC TRAIL. THE DESIGN INCLUDES APPROXIMATELY 5,000 FEET OF PUBLIC GRAVITY SANITARY SEWER, 1 PUMP STATION, AND 8,000 FEET OF PUBLIC FORCE MAIN. 2 PUMP STATIONS WILL BE SHUT DOWN AND PUMPS WILL BE REMOVED.

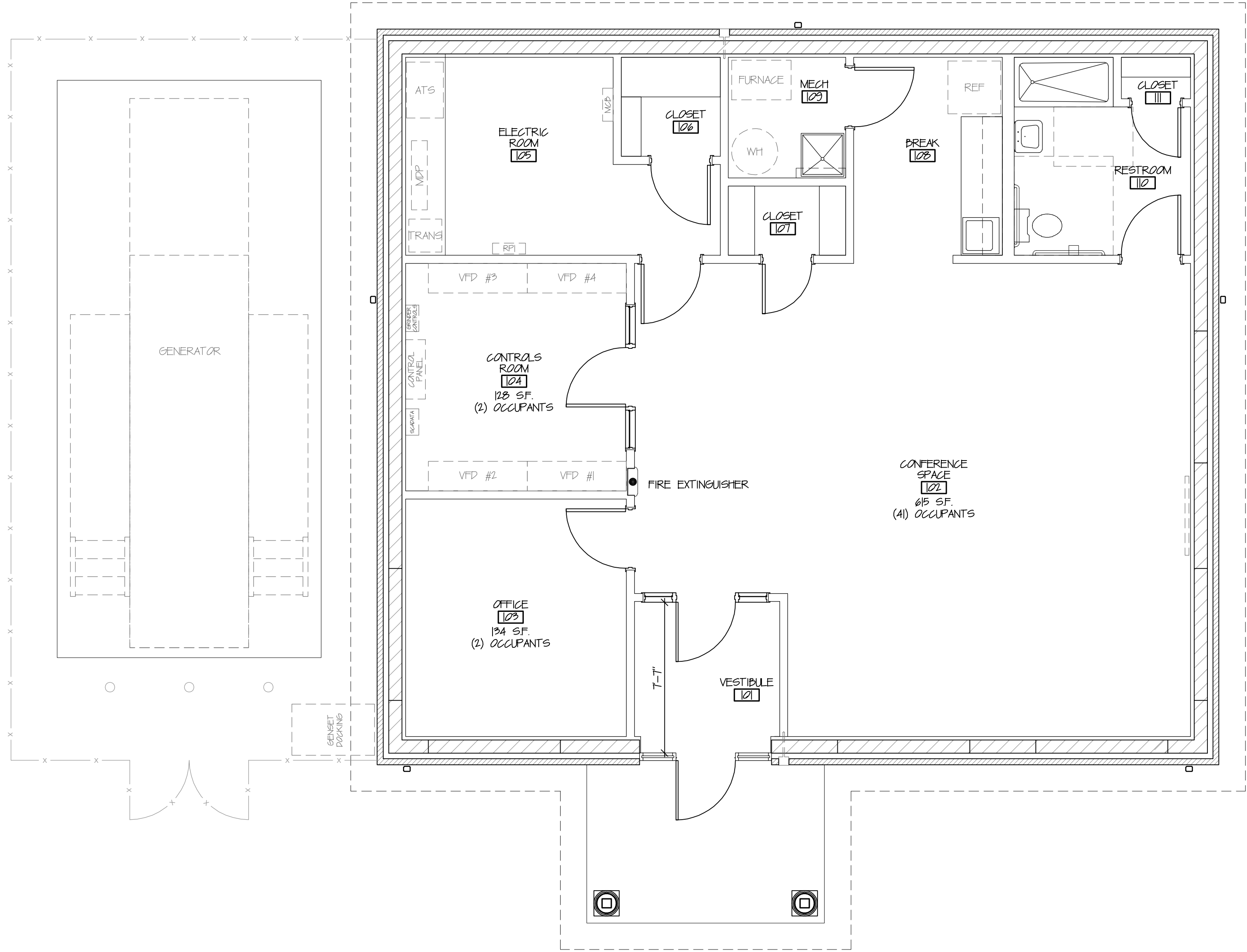
BENCHMARKS

BM #	DESCRIPTION	ELEVATION	NORTHING	EASTING
	IRON PIPE LOCATED AT THE NORTHWEST CORNER OF MAIN STREET AND BAYOU STREET	630.47	502237.98	1482707.17
100				
104	NAIL SET IN ASPHALT PATH	630.40	502052.22	1483405.36
107	NAIL SET IN ASPHALT PATH	627.61	501671.97	1484505.27
110	NAIL SET IN ASPHALT PATH	630.12	501234.82	1485584.46
114	NAIL SET IN ASPHALT PATH	628.17	501071.44	1487064.47
121	NAIL SET IN ASPHALT PATH	633.04	502305.29	1476557.39
124	NAIL SET IN ASPHALT PATH	629.90	501695.37	1477258.79
128	NAIL SET IN ASPHALT PATH	628.12	502103.84	1478536.75
132	NAIL SET IN ASPHALT PATH	626.56	502183.43	1479852.52
135	NAIL SET IN ASPHALT PATH	627.46	502630.42	1480879.84
138	NAIL SET IN ASPHALT PATH	627.42	502468.14	1481981.24
6374	NAIL SET IN ASPHALT PATH	689.28	503541.43	1476501.50

CONTROL BASIS:
THE BEARINGS ARE BASED ON US STATE PLANE NAD 83 (OHIO SOUTH ZONE 3402). ELEVATIONS BASED ON NAVD88. BOTH DERIVED FROM ODOT'S VRS RTK NETWORK USING STATIONS OHDT AND LEB4.

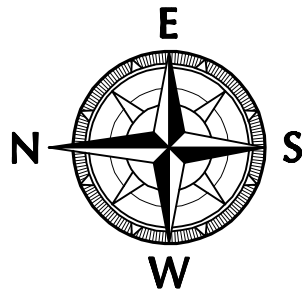


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CODE PLAN

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



CODE NOTES

THIS PROJECT IS A NEW 1-STORY BUILDING TO CONTAIN POWER AND CONTROLS FOR A LARGE SANITARY FORCE MAIN. IT WILL ALSO HAVE AN OFFICE, MEETING AREA, BREAK AREA AND RESTROOM. THE FORCE MAIN WILL OPERATE 24/7/365 AND SERVICE AND MAINTENANCE PERSONNEL WILL OCCUPY THIS BUILDING TO ASSURE THE FORCE MAIN IS OPERATIONAL. ON A TYPICAL DAY, THERE WILL BE ONE PERSON IN THE OFFICE MONITORING OPERATIONS. THE CITY OF SOUTH LEBANON WILL USE THE CONFERENCE SPACE OCCASIONALLY FOR MEETINGS WITH INTERNAL OR EXTERNAL PERSONNEL. THE RESTROOM AND SHOWER WILL BE USED BY CITY PERSONNEL ONLY.

BUILDING CONSTRUCTION TYPE: V-B

BUILDING USE IS "B" - BUSINESS

TOTAL BUILDING AREA: 1,580 SF.

ALLOWABLE BUILDING HEIGHT (OBC 504.3) - 40'

ALLOWABLE NUMBER OF STORIES (OBC 504.4) - TWO (2)

ALLOWABLE BUILDING AREA (OBC 506.2) - 9,000 SF

ACTUAL HEIGHT / STORIES / AREA = 10'-7" / 1 STORY / 1,580 SF

OCCUPANT LOADING (OBC 1004.1.2)
CONFERENCE SPACE - 615 SF AT 15/NET = 41 OCC.
OFFICE 103 - 134 SF AT 100/GROSS = 1 OCC.
CONTROLS ROOM - 128 SF AT 100/GROSS = 1 OCC.
TOTAL OCCUPANTS - 45

AN ACCESSIBLE UNISEX RESTROOM IS PROVIDED FOR CITY PERSONNEL USE ONLY - THIS BUILDING IS NOT OPEN TO THE GENERAL PUBLIC.

A NATURAL GAS GENERATOR IS BEING PROVIDED TO ENSURE THE FORCE MAIN WILL REMAIN OPERATIONAL 24/7/365.

FIRE EXTINGUISHERS WILL BE PROVIDED TO MEET OBC 906.3

BUILDING IS NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

BUILDING DOES NOT HAVE A FIRE ALARM SYSTEM AND IS NOT REQUIRED PER OBC 907.2.2.

EGRESS:

- BUILDING HAS (1) EXIT AND MEETS EGRESS REQUIREMENTS PER OBC 1006.2.1
 - OCCUPANT LOAD DOES NOT EXCEED 45
 - MAXIMUM COMMON PATH OF EGRESS DOES NOT EXCEED 75'

BUILDING EXIT IS ACCESSIBLE AND AT GRADE

DOOR HARDWARE WILL PERMIT EGRESS AT ALL TIMES WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE

EXIT ACCESS TRAVEL DISTANCE IS LESS THAN 200' AND CONFORMS WITH OBC 1017.2.

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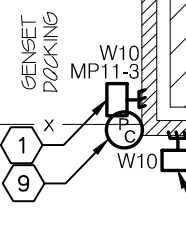
Sheet Title	
CODE NOTES	
Project Number	06308.12
Drawing Scale	AS NOTED
Sheet Number	G2
File Number	

17. PROVIDE HEAT TRACE TAPE FOR COLD WATER PIPING IN ATTIC. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE CHROMALOX SRL SERIES, 277V, 5 WATTS PER FOOT. PROVIDE WITH LINE SENSING MECHANICAL THERMOSTAT FOR CONTROL.
18. LOCATED IN ATTIC
19. CONNECT FAN TO LIGHT SWITCH TO COME ON WHEN LIGHTS ARE TURNED ON.
20. PROVIDE WITH 2#1, 1#8G, 1 1/4".
21. PROVIDE UNDERGROUND 3/4" CONDUITS BETWEEN DOCKING STATION, MCB, OS-ATS, AND GENERATOR.
22. PROVIDE TWO 4" PVC CONDUITS STUBBED FROM PANEL, TO POINT BEYOND GENERATOR FOR POWER TO FUTURE BUILDING. PROVIDE WATER AND GAS TIGHT MECHANICAL PLUGS AT BOTH CONDUIT ENDS. SEE SITE PLAN ON SHEET E3 FOR CONTINUATION.
23. PROVIDE TWO 4" PVC CONDUITS STUBBED FROM PHONE BACKBOARD TO POINT BEYOND GENERATOR FOR PHONE, AV OR ACCESS CONTROL TO FUTURE BUILDING. SEE SITE PLAN ON SHEET E3 FOR CONTINUATION.
24. PROVIDE 120V, 20A CIRCUIT FOR POWER TO DOOR ACCESS CONTROLS.
25. PROVIDE 120V, 30A CIRCUIT FOR GENERATOR BLOCK HEATER.
26. PROVIDE 120V, 20A CIRCUIT FOR GENERATOR BATTERY CHARGER.
27. PATHWAY OF CIRCUITS TO PIT FROM PANEL RP1.
28. PATHWAY OF CIRCUITS TO PIT FROM PANEL MP11.
29. DOWN LEAD LOCATION. REFER TO DETAIL E, ON SHEET E6.

17. PROVIDE HEAT TRACE TAPE FOR COLD WATER PIPING IN ATTIC. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE CHROMALOX SRL SERIES, 277V, 5 WATTS PER FOOT. PROVIDE WITH LINE SENSING MECHANICAL THERMOSTAT FOR CONTROL.
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28. PATHWAY OF CIRCUITS TO PIT FROM PANEL MP11.
29. DOWN LEAD LOCATION. REFER TO DETAIL E, ON SHEET E6.

IS

- IS



HAWA Incorporated

DESIGNED BY
J. J. MURPHY, C.E.

DRAWN BY

JAI

CHECKED BY _____

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Project Manager DCC

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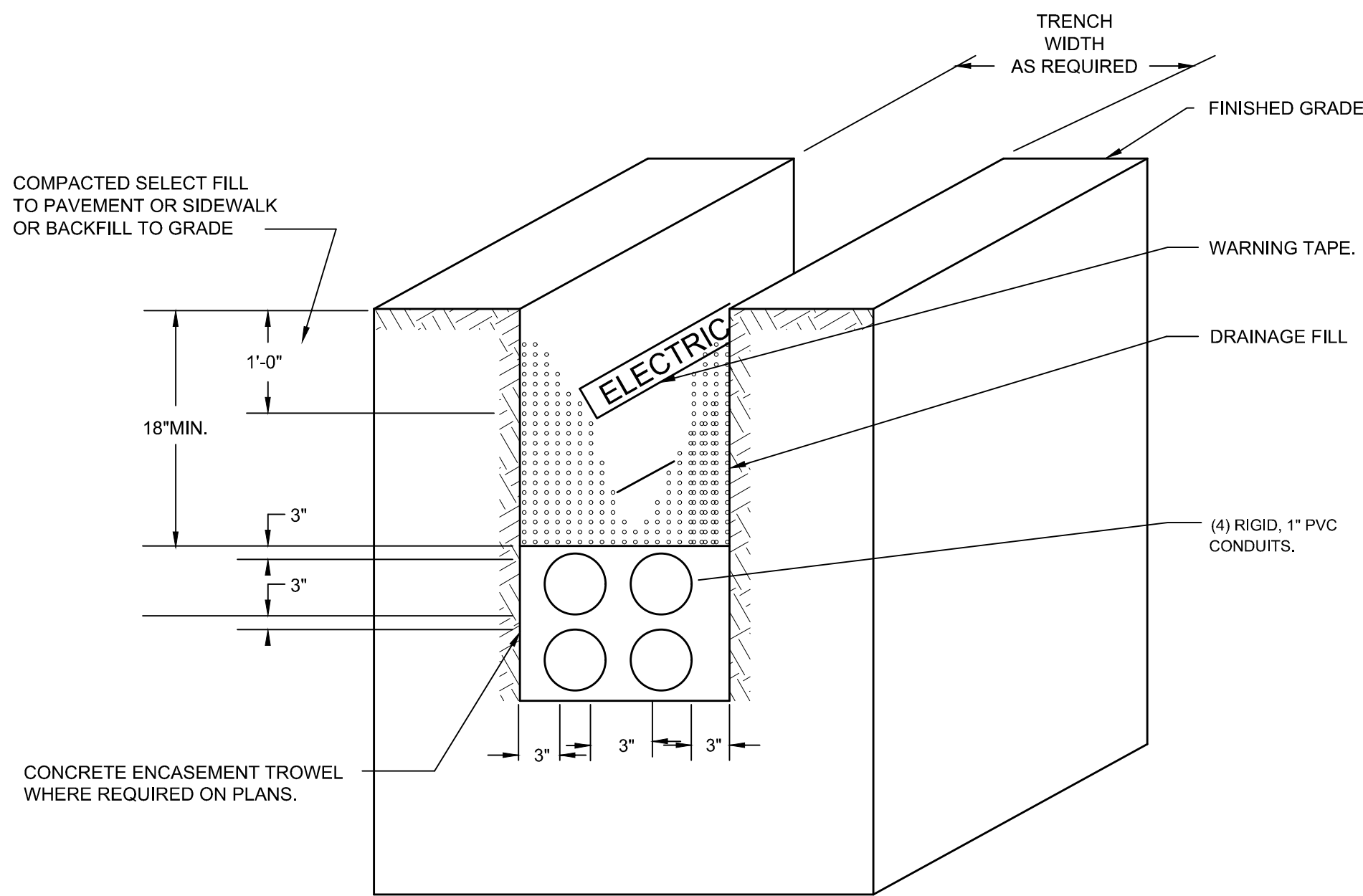
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397 MAIN STREET, SOUTH LEBANON OHIO 45065

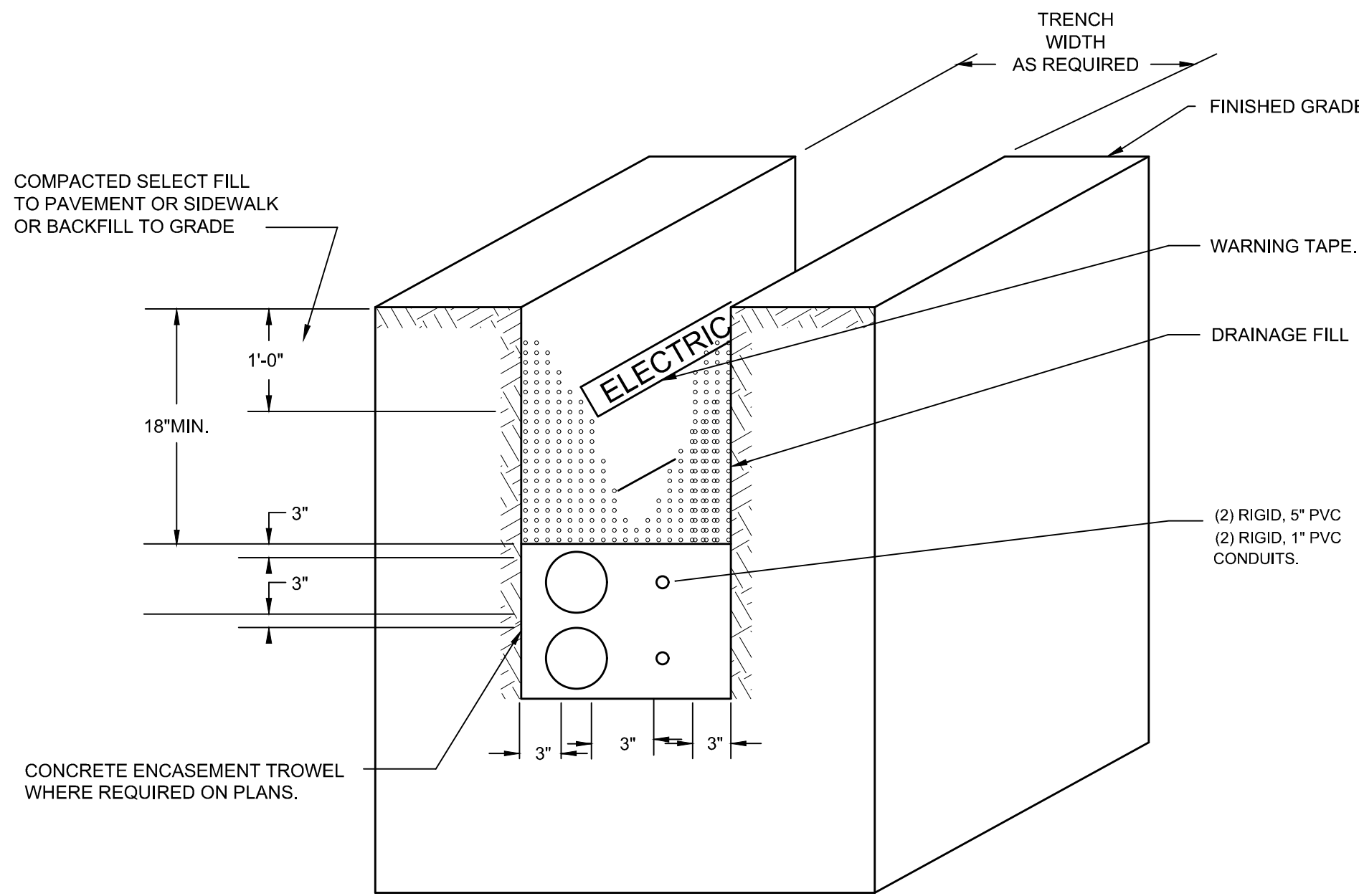
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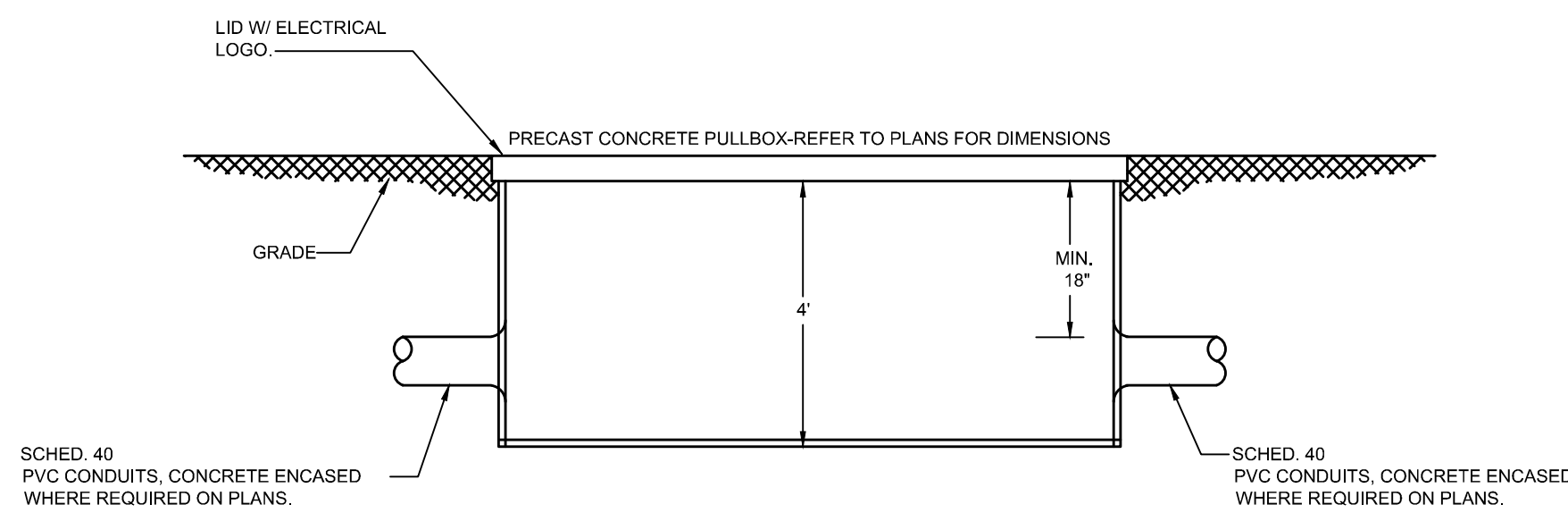
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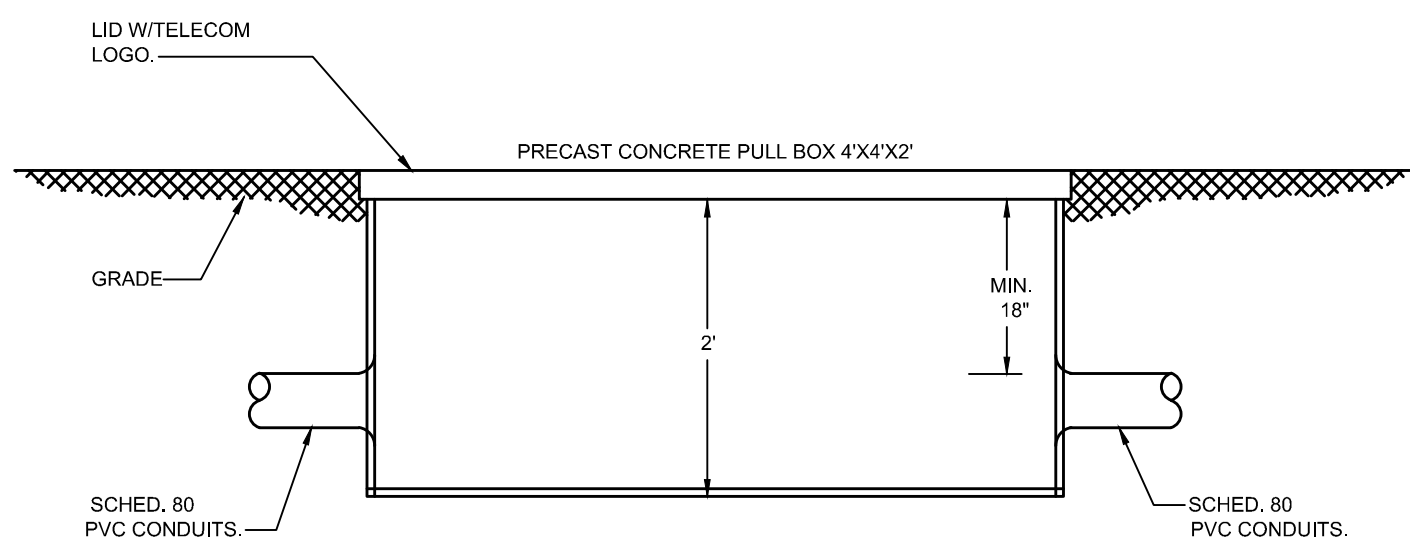
A ELECTRICAL DUCT BANK DETAIL-CONTROLS



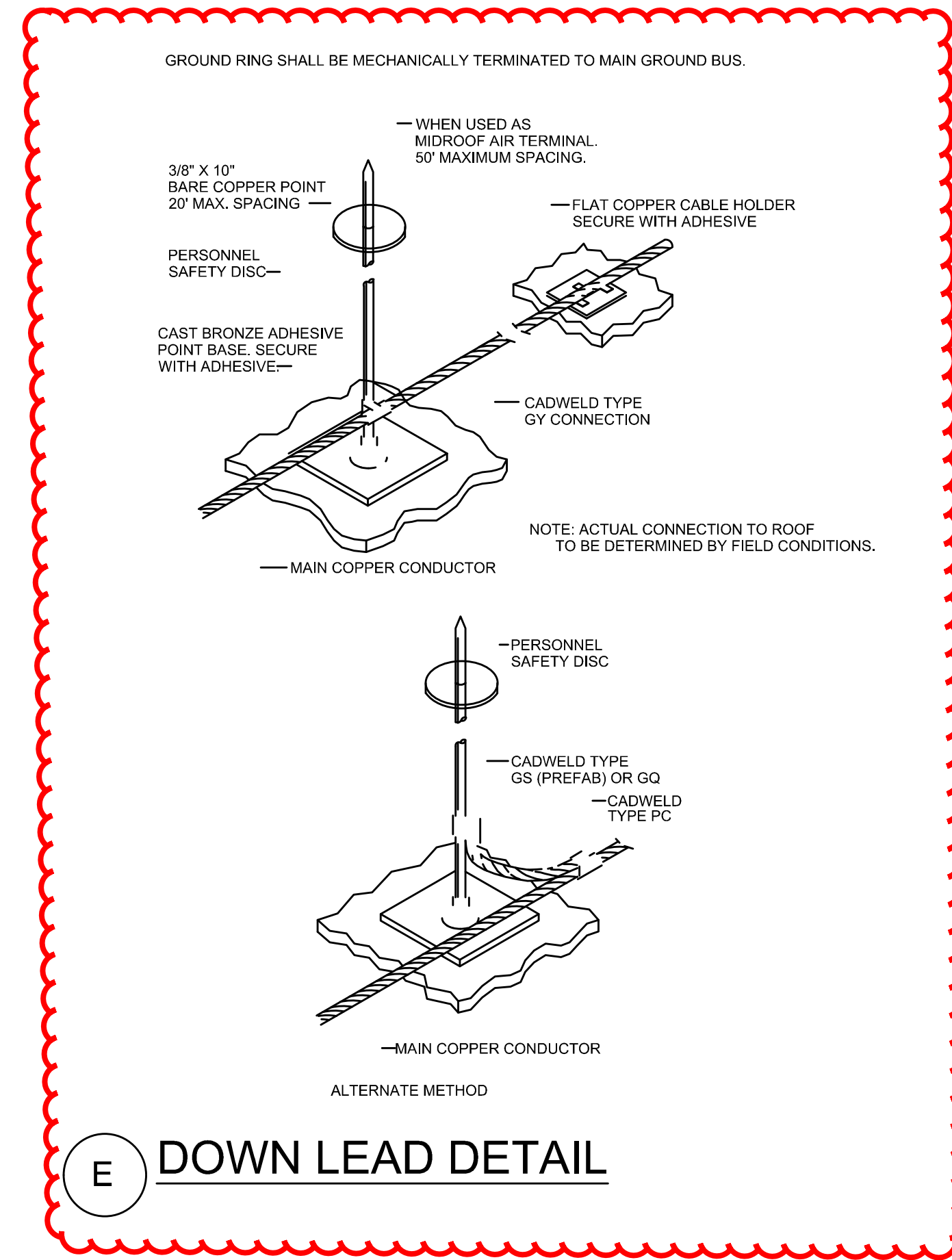
B ELECTRICAL DUCT BANK DETAIL-EAST



C ELECTRICAL PULLBOX DETAIL



D TELECOM PULLBOX DETAIL



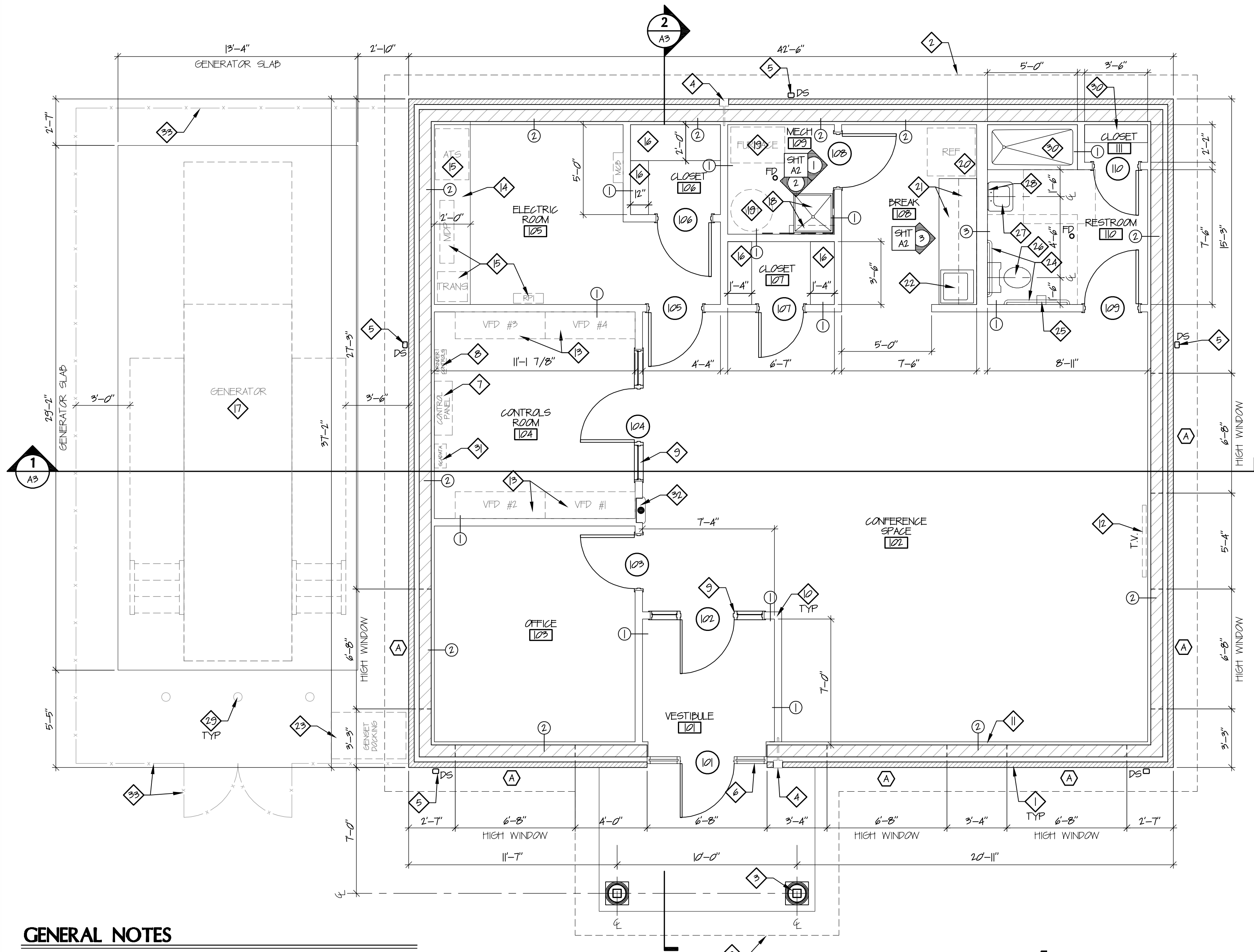
E DOWN LEAD DETAIL

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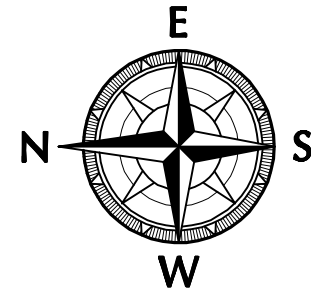


RIVER CORRIDOR
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FLOOR PLAN

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



GENERAL NOTES

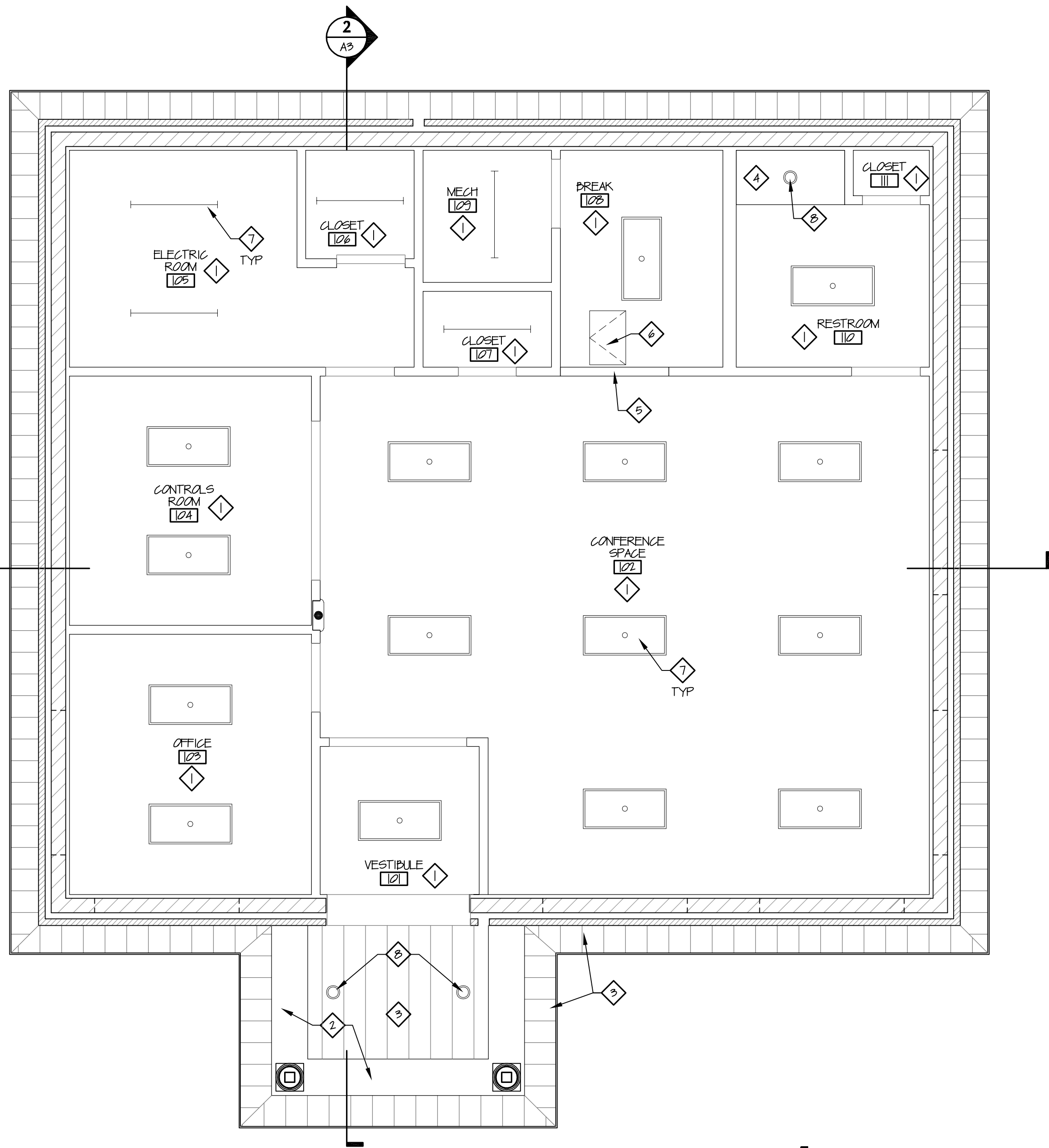
- INTERIOR PARTITIONS OR FURRING IDENTIFIED WITH (P) — SEE WALL TYPE LEGEND ON THIS SHEET FOR CONSTRUCTION — ALL WALLS EXTEND TO BOTTOM OF ROOF TRUSS ABOVE UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE TO FINISHED SURFACES OR TO THE CENTERLINE OF COLUMNS OR FIXTURES UNLESS OTHERWISE NOTED.
- FINISH FLOOR ELEVATION OF 100'-0" EQUALS 628.50 MEAN SEA LEVEL. CONTRACTOR SHALL VERIFY THIS BENCHMARK PRIOR TO CONSTRUCTION.
- NEW DOORS TO BE LOCATED WITH CENTERLINE OF OPENING 2'-0" AWAY FROM ADJACENT WALL ON THE HINGE SIDE UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR TO COORDINATE AND INSTALL ALL WOOD BLOCKING REQUIRED FOR WALL MOUNTED OR BRACED ITEMS — BLOCKING TO BE SUFFICIENT THICKNESS FOR FASTENERS USED TO SECURE WALL MOUNTED OR BRACED ITEMS.

DRAWING NOTES — FLOOR PLAN

- BRICK VENEER CAVITY WALL — SEE WALL SECTIONS
- LINE OF ROOF OVERHANG — SEE ELEVATIONS AND ROOF PLAN
- FIBERGLASS COLUMN WRAPS OVER STRUCTURAL WOOD COLUMN
- RECESSED FROST-PROOF HOSE BIB IN LOCKABLE BOX — INSTALL WITH CENTERLINE OF BOX AT 2'-0" AFF.
- PREFINISHED SHEET METAL DOWNSPOUT WITH CONCRETE SPLASHBLOCK AT GRADE — SEE SITE DRAWINGS FOR CONTINUATION
- ALUMINUM STOREFRONT ENTRANCE SYSTEM — SEE DOOR SCHEDULE
- LIFT STATION CONTROL PANEL BY OTHERS
- GRINDER CONTROL PANEL BY OTHERS
- HOLLOW METAL DOOR WITH BORROWED LITES PER DOOR SCHEDULE
- NEW INTERIOR PARTITION — SEE WALL TYPE LEGEND ON THIS SHEET
- FURRING ON INTERIOR SIDE OF EXTERIOR WALLS — SEE WALL TYPE LEGEND ON THIS SHEET
- T.V. PROVIDED AND INSTALLED BY OWNER — PROVIDE POWER AND DATA CONNECTIONS PER ELECTRICAL DRAWINGS — COORDINATE MOUNTING HEIGHT WITH OWNER FOR BLOCKING, POWER AND DATA INSTALLATION
- LIFT STATION VFD PANELS BY OTHERS
- 4" HIGH CONCRETE EQUIPMENT PAD
- ELECTRICAL EQUIPMENT — SEE ELECTRICAL DRAWINGS
- FULL WIDTH, HEAVY DUTY ADJUSTABLE SHELVING FROM FLOOR TO 6'-6" AFF. PROVIDE (5) SHELVES WITH SHELF DEPTH AS DIMENSIONED ON PLAN

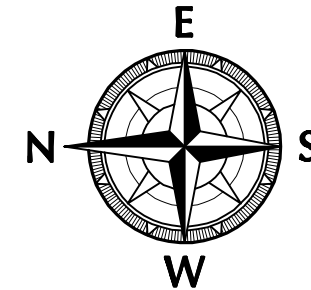
- DIESEL BACKUP GENERATOR — SEE ELECTRICAL DRAWINGS
- MOP BASIN — PROVIDE 4'-0" HIGH FRP ON SIDE AND REAR WALLS AND PROVIDE SHELF WITH MOP HOOKS ABOVE — SEE ELEVATION
- GAS-FIRED FURNACE AND DOMESTIC WATER HEATER — SEE MEP DRAWINGS
- REFRIGERATOR PROVIDED AND INSTALLED BY OWNER — PROVIDE POWER AND WATER HOOKUPS — SEE ELEVATION
- BASE AND WALL CABINETS WITH SOLID SURFACE COUNTERTOP — SEE INTERIOR ELEVATION
- STAINLESS STEEL SINGLE BOWL SINK — SEE PLUMBING DRAWINGS
- DOCKING STATION FOR MOBILE GENERATOR HOOKUP — PROVIDE 4" THICK CONCRETE SLAB UNDER UNIT — SEE ELECTRICAL DRAWINGS
- PROVIDE THE FOLLOWING GRAB BARS AT THE ACCESSIBLE WATER CLOSET MOUNTED HORIZONTALLY BETWEEN 2'-9" AND 3'-0" AFF.
 - 36" LONG GRAB BAR ON REAR WALL — 6" FROM SIDE WALL
 - 42" LONG GRAB BAR ON SIDE WALL — 12" FROM REAR WALL
 - MOUNTED VERTICALLY WITH BOTTOM OF RAIL BETWEEN 3'-3" AND 3'-5"
 - 18" VERTICAL GRAB BAR ON SIDE WALL — 4'-6" FROM REAR WALL
- TOILET PAPER DISPENSER
- FLOOR MOUNTED ACCESSIBLE WATER CLOSET WITH RIM AT 17" AFF.
- WALL HUNG ACCESSIBLE LAVATORY MOUNTED WITH RIM AT 2'-10" AFF. MAX
- 18" x 36" MIRROR CENTERED ON LAVATORY — MOUNT WITH BOTTOM OF MIRROR AT 3'-4" AFF. — BOBRICK B-465 OR EQUAL
- 6" DIA CONCRETE-FILLED STEEL PIPE BOLLARD — MIN 3/8" HIGH — SEE SITE DRAWINGS FOR LOCATION AND BOLLARD DETAILS

- 30" x 60" ACRYLIC SHOWER BASE
- SCADATA CONTROLS BY OTHERS
- SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER MOUNTED WITH TOP OF CABINET AT 5'-0" AFF.
- CHAIN LINK FENCE WITH PAIR OF SWINGING GATES — SEE SITE DRAWINGS



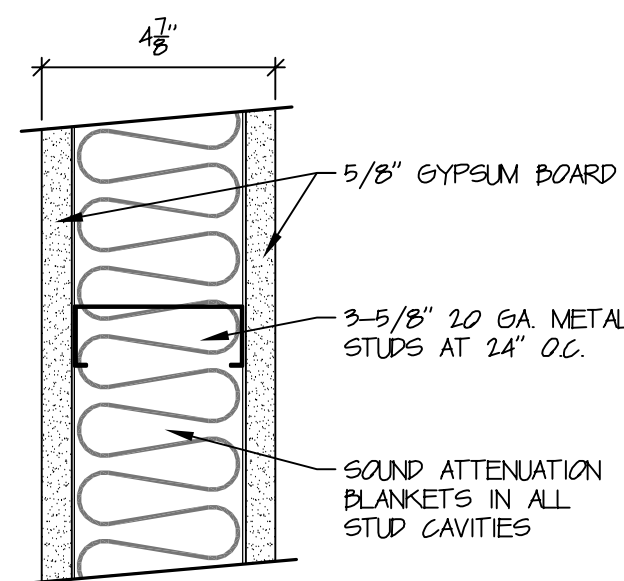
REFLECTED CEILING PLAN

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

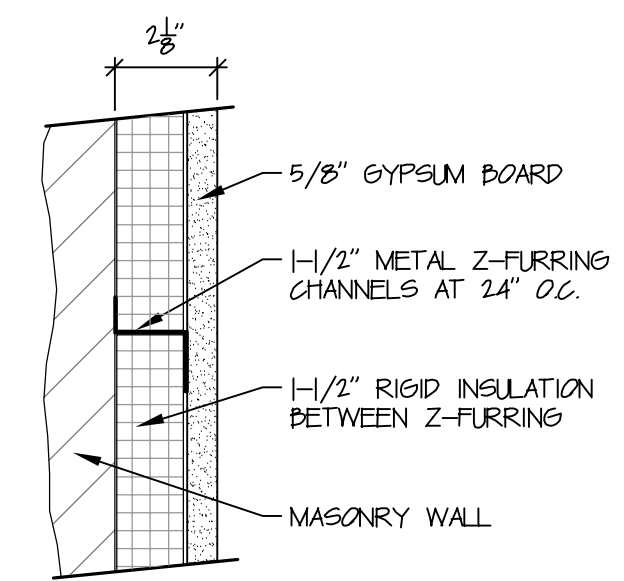


DRAWING NOTES — CEILING PLAN

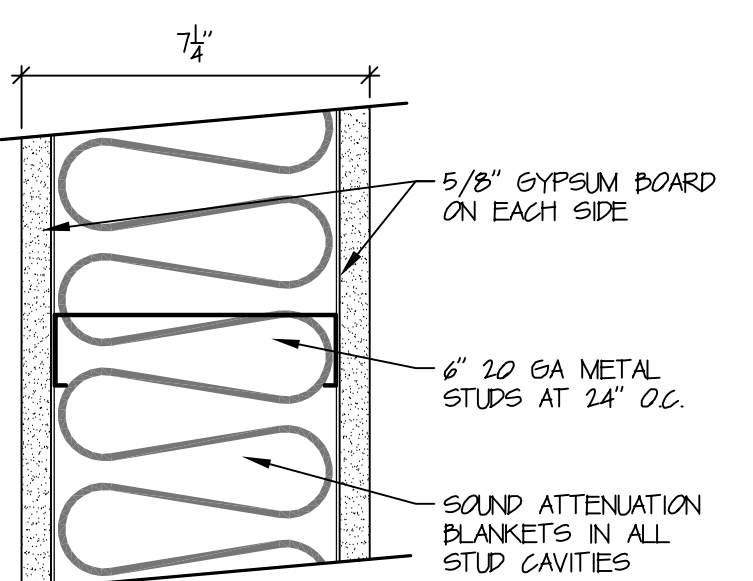
- 5/8" GYPSUM BOARD CEILING INSTALLED ON BOTTOM OF ROOF TRUSSES
- ELF.S. BULKHEAD — SEE SECTIONS
- PREFINISHED SM. SOFFIT PANELS
- 5/8" GYPSUM BOARD CEILING AT 8'-0" AFF.
- GYPSUM BOARD BULKHEAD WITH BOTTOM AT 8'-0" AFF. — MATCH WIDTH OF ADJACENT WALL
- PROVIDE MINIMUM 10" x 30" ACCESS HATCH TO ATTIC SPACE — LOCATE ACCESS HATCH CENTERED BETWEEN TRUSSES
- SURFACE MOUNTED LIGHTING — SEE ELECTRICAL DRAWINGS
- RECESSED CAN LIGHT — SEE ELECTRICAL DRAWINGS



NON-RATED PARTITION
WALL TYPE
UL DESIGN NUMBER: N/A

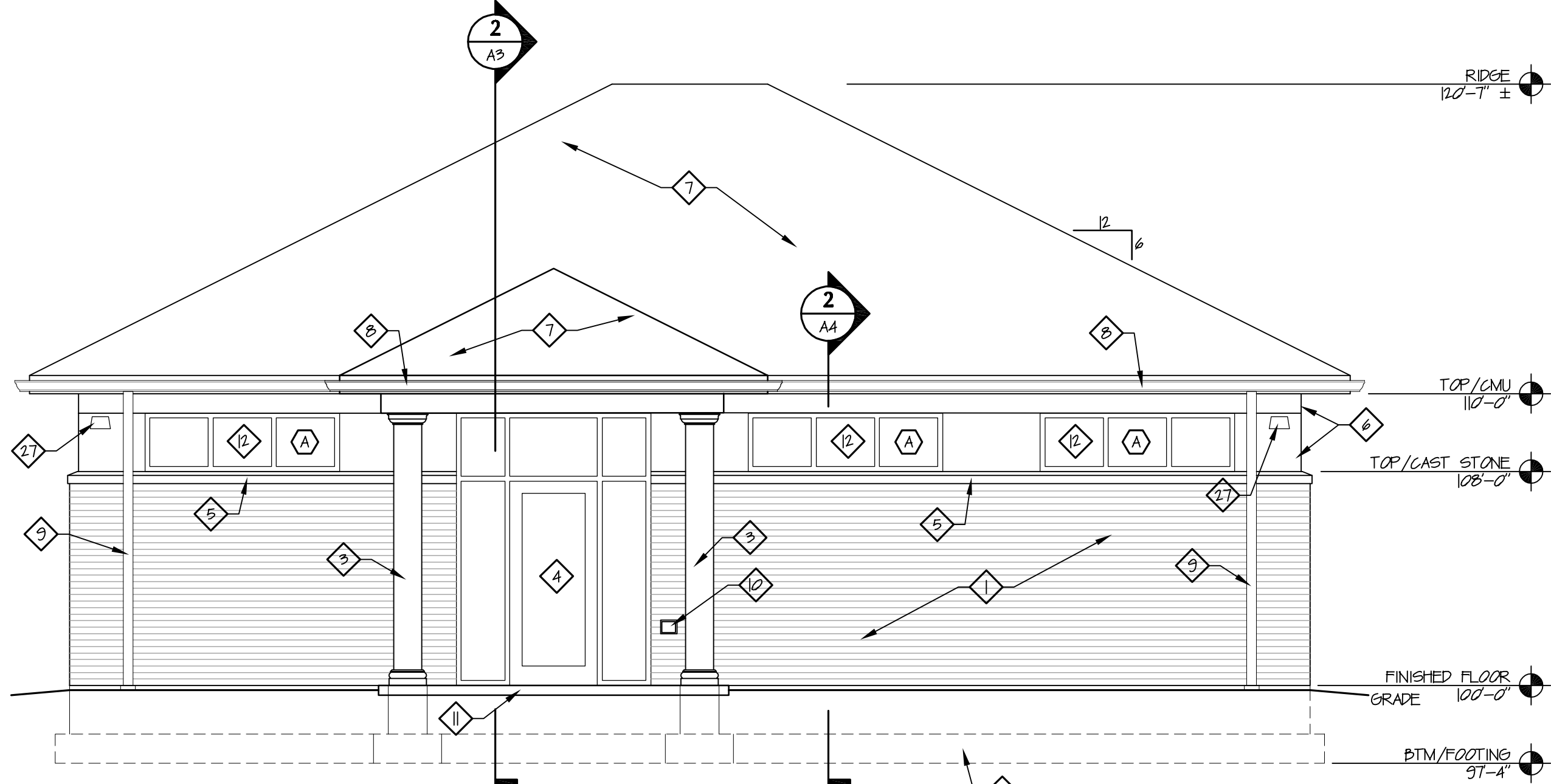


NON-RATED FURRING
WALL TYPE
UL DESIGN NUMBER: N/A



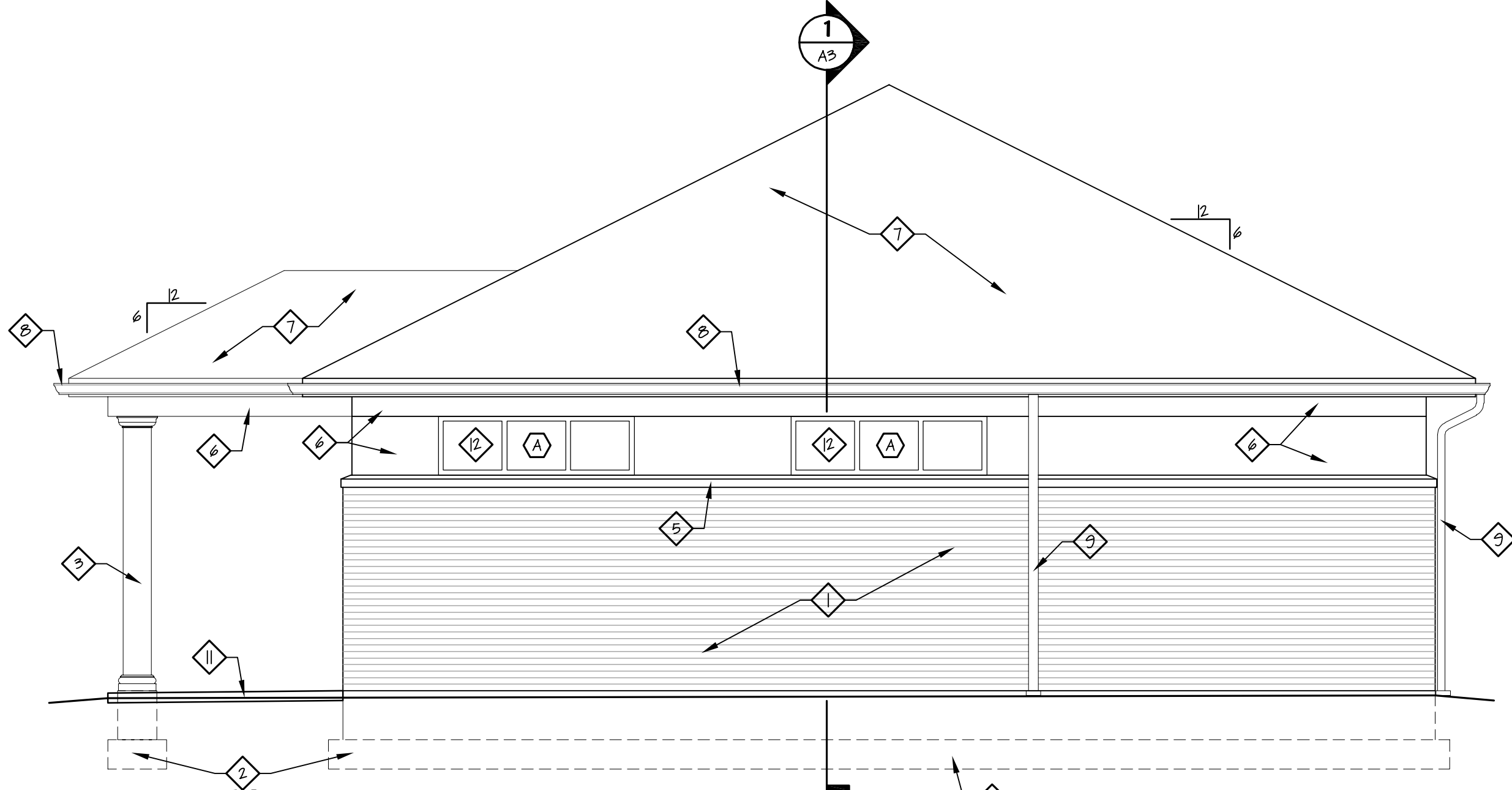
NON-RATED PARTITION
WALL TYPE
UL DESIGN NUMBER: N/A

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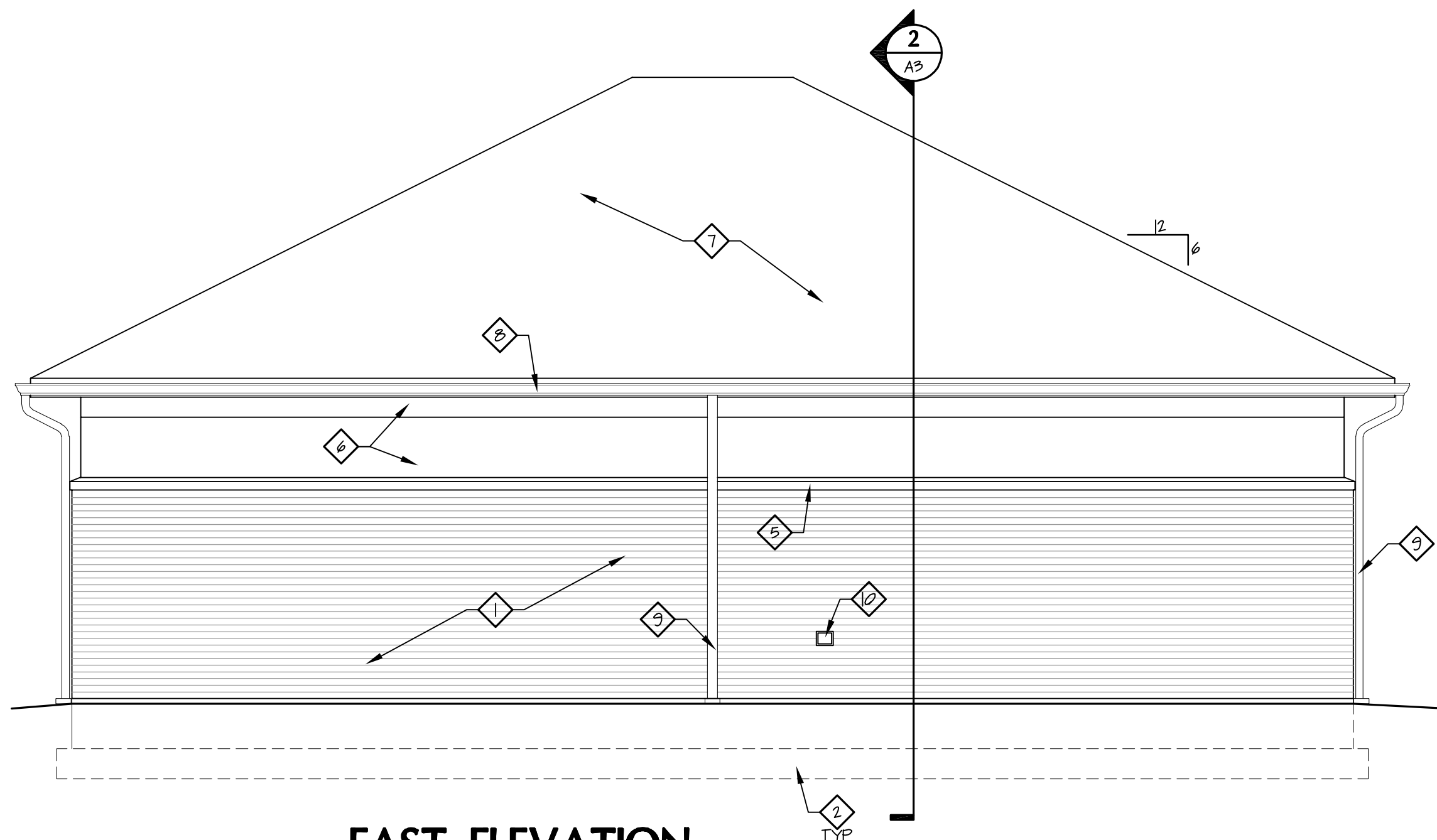
WEST ELEVATION

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



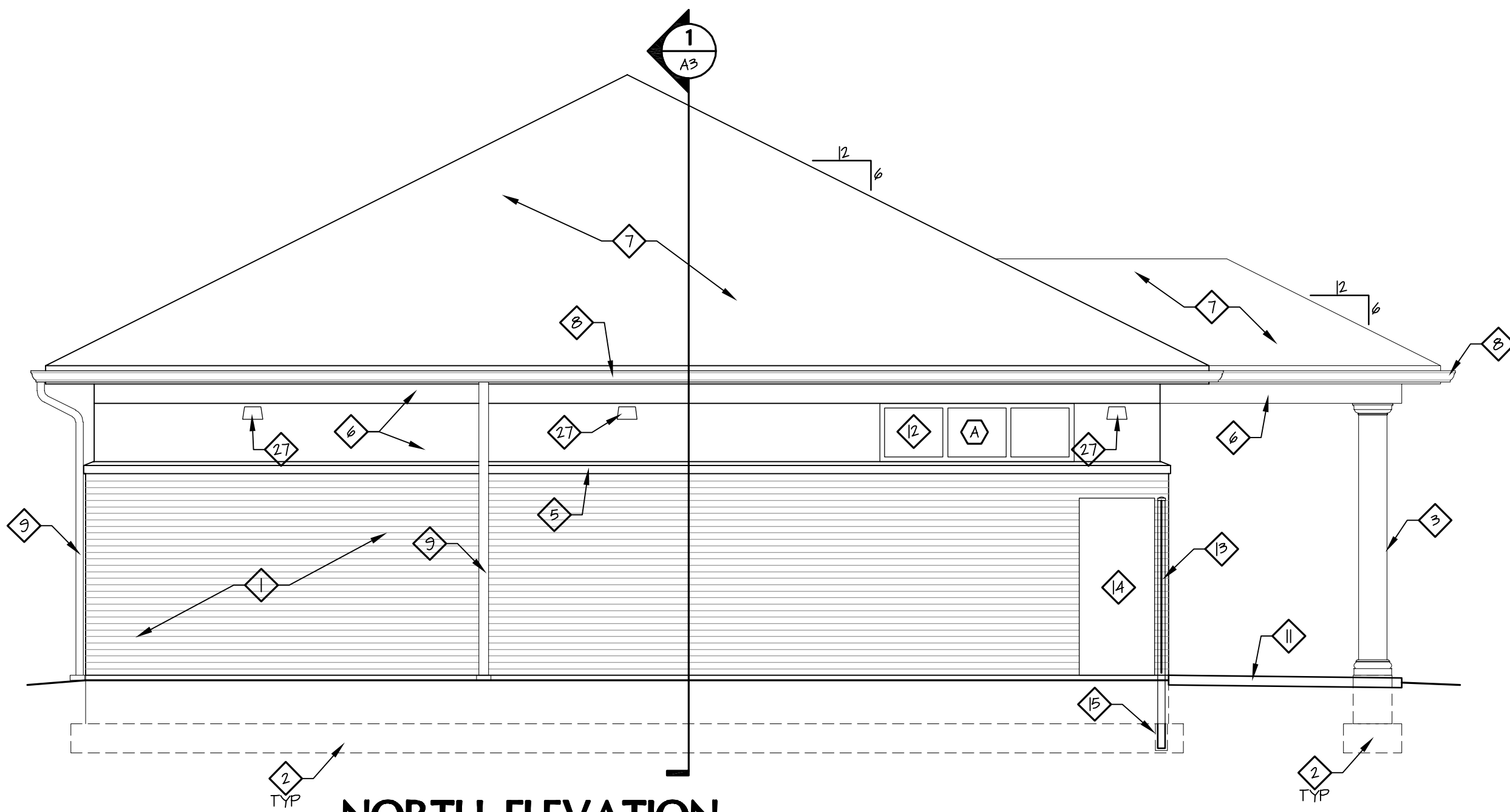
SOUTH ELEVATION

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



EAST ELEVATION

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

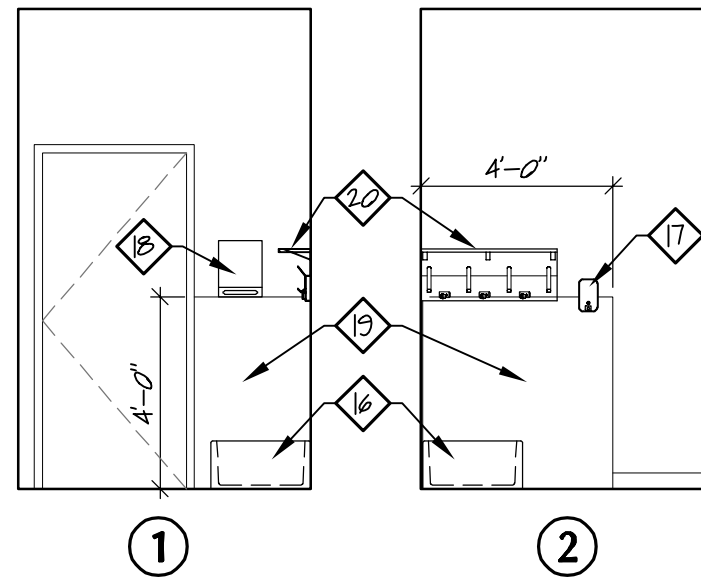


NORTH ELEVATION

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

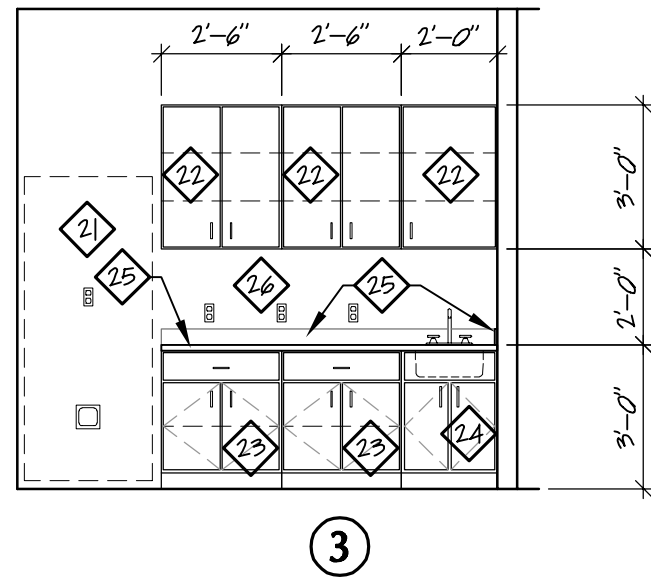
DRAWING NOTES

- BRICK VENEER CAVITY WALL - SEE BUILDING AND WALL SECTIONS
- CONCRETE FOUNDATIONS - SEE STRUCTURAL DRAWINGS
- FIBERGLASS COLUMN - PAINTED
- ALUMINUM STOREFRONT ENTRANCE SYSTEM WITH SIDE AND TRANSOM LITES - SEE DOOR SCHEDULE
- CAST STONE BAND - PROFILE A - SEE WALL SECTION
- EXTERIOR INSULATION AND FINISH SYSTEM - SEE WALL SECTIONS
- ASPHALT SHINGLE ROOF
- PREFINISHED SHEET METAL GUTTER
- PREFINISHED SHEET METAL DOWNSPOUT DISCHARGING TO CONCRETE SPLASH BLOCK AT GRADE - DOWNSPOUTS TO BE 3" x 4" SMOOTH
- FROST-PROOF HOSE BID IN RECESSED LOCKABLE WALL BOX INSTALLED WITH CENTERLINE OF BOX AT 2'-0" AFF. - SEE MEP DRAWINGS
- 4" CONCRETE SLAB ON GRADE
- FIXED ALUMINUM STOREFRONT WINDOW - 6'-8" WIDE x 2'-0" HIGH
- 6'-0" HIGH CHAIN LINK FENCE - SEE SITE PLAN
- PORTABLE GENERATOR DOCKING STATION - SEE ELECTRICAL DRAWINGS
- PROVIDE SLEEVE IN FOOTING TO ALLOW INSTALLATION OF FENCE POST ADJACENT TO FACE OF BUILDING
- SERVICE SINK - SEE MEP DRAWINGS
- SOAP DISPENSER MOUNTED ON WALL WITH DISPENSER AT 4'-0" AFF.
- PAPER TOWEL DISPENSER MOUNTED 50 TOWELS DISPENSE AT 4'-0" AFF.
- INSTALL FRP PANELING TO 4'-0" AFF. ON WALLS BEHIND MOP SINK - FRP PANELING TO EXTEND 48" TO NORTH AND TERMINATE AT DOOR FRAME
- MOP RACK WITH SHELF - MOUNT WITH SHELF AT 5'-0" AFF.
- OWNER PROVIDED REFRIGERATOR - PROVIDE ELECTRIC OUTLET AT 48" AFF. AND RECESSED WATER VALVE BOX AT 18" AFF.
- WALL CABINET WITH (2) ADJUSTABLE SHELVES
- BASE CABINET WITH ADJUSTABLE SHELF
- SINK BASE CABINET
- SOLID SURFACE COUNTERTOP WITH 4" HIGH BACK AND SIDE SPLASH
- ELECTRICAL OUTLET FOR MICROWAVE
- LIGHT WALL PACK - SEE ELECTRICAL DRAWINGS



MECHANICAL

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



BREAK ROOM

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

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DRAWING NOTES

- 1 4" CONCRETE SLAB OVER VAPOR BARRIER OVER 4" COMPACTED GRANULAR BASE OVER COMPACTED SUBGRADE - SEE STRUCTURAL
- 2 CONCRETE FOUNDATIONS - SEE STRUCTURAL DRAWINGS
- 3 BRICK VENEER CAVITY WALL - SEE WALL SECTIONS
- 4 NOT USED
- 5 HOLLOW METAL DOOR FRAME WITH BORROWED LITES AND TRANSOM LITE SEE DOOR SCHEDULE
- 6 ALUMINUM STOREFRONT ENTRANCE SYSTEM - SEE DOOR SCHEDULE
- 7 HOLLOW METAL DOOR & FRAME - SEE DOOR SCHEDULE
- 8 4" CONCRETE SLAB ON GRADE SLOPED AWAY FROM BUILDING ENTRANCE SEE SITE PLAN FOR SLAB ELEVATIONS
- 9 FIBERGLASS PORCH COLUMN BEYOND
- 10 PARTITIONS EXTEND TO FINISHED CEILING - SEE WALL TYPE LEGEND
- 11 5/8" GYPSUM BOARD CEILING APPLIED TO BOTTOM CHORD OF TRUSSES
- 12 R-30 BATT INSULATION IN ALL VOIDS BETWEEN ROOF TRUSSES AT TOP CHORD OF TRUSS
- 13 ENGINEERED WOOD ROOF TRUSSES AT 24" O.C.
- 14 ASPHALT SHINGLES OVER DOUBLE LAYER OF 15# FELT OVER 15/32" EXTERIOR GRADE PLYWOOD SHEATHING
- 15 PREFINISHED 5" K-STYLE SHEET METAL GUTTER
- 16 PREFINISHED SHEET METAL SOFFIT MATERIAL FASTENED TO BOTTOM OF ROOF TRUSSES AND WOOD BLOCKING AS REQUIRED
- 17 E.I.F.S. - SEE BUILDING ELEVATIONS AND WALL SECTIONS
- 18 ADJUSTABLE SHELVING - SEE FLOOR PLAN
- 19 E.I.F.S. BULKHEAD AT PORCH - SEE REFLECTED CEILING PLAN
- 20 BACKUP GENERATOR - SEE M/E/P DRAWINGS
- 21 WINDOW BEYOND - SEE ELEVATIONS AND WINDOW SCHEDULE
- 22 T.V. BY OWNER - PROVIDE POWER, DATA AND WOOD BLOCKING IN WALL COORDINATE FINAL LOCATION OF TV WITH OWNER
- 23 SERVICE PLATFORM AND STAIRS BY GENERATOR MANUFACTURER
- 24 SOLID SURFACE WINDOW SILL AND APRON
- 25 PROVIDE 3/4" THICK PLYWOOD PANEL FOR MOUNTING ACCESS CONTROL HARDWARE - 24" x 48" MOUNTED WITH TOP OF PANEL AT 7'-0" AFF. WITH SCREWS AND FINISH WASHERS - PAINT PANEL TO MATCH WALL
- 26 SEE STRUCTURAL DRAWINGS FOR JUNCTURE OF FLOOR SLAB AND PORCH SLAB / SIDEWALK

Issue/Revision	No.	Date
BID/PERMIT		08/15/25



RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065

Sheet Title	
BUILDING SECTIONS	
Project Number	06308.12
Drawing Scale	AS NOTED
Sheet Number	A3
File Number	

BUILDING SECTION

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

1

AI

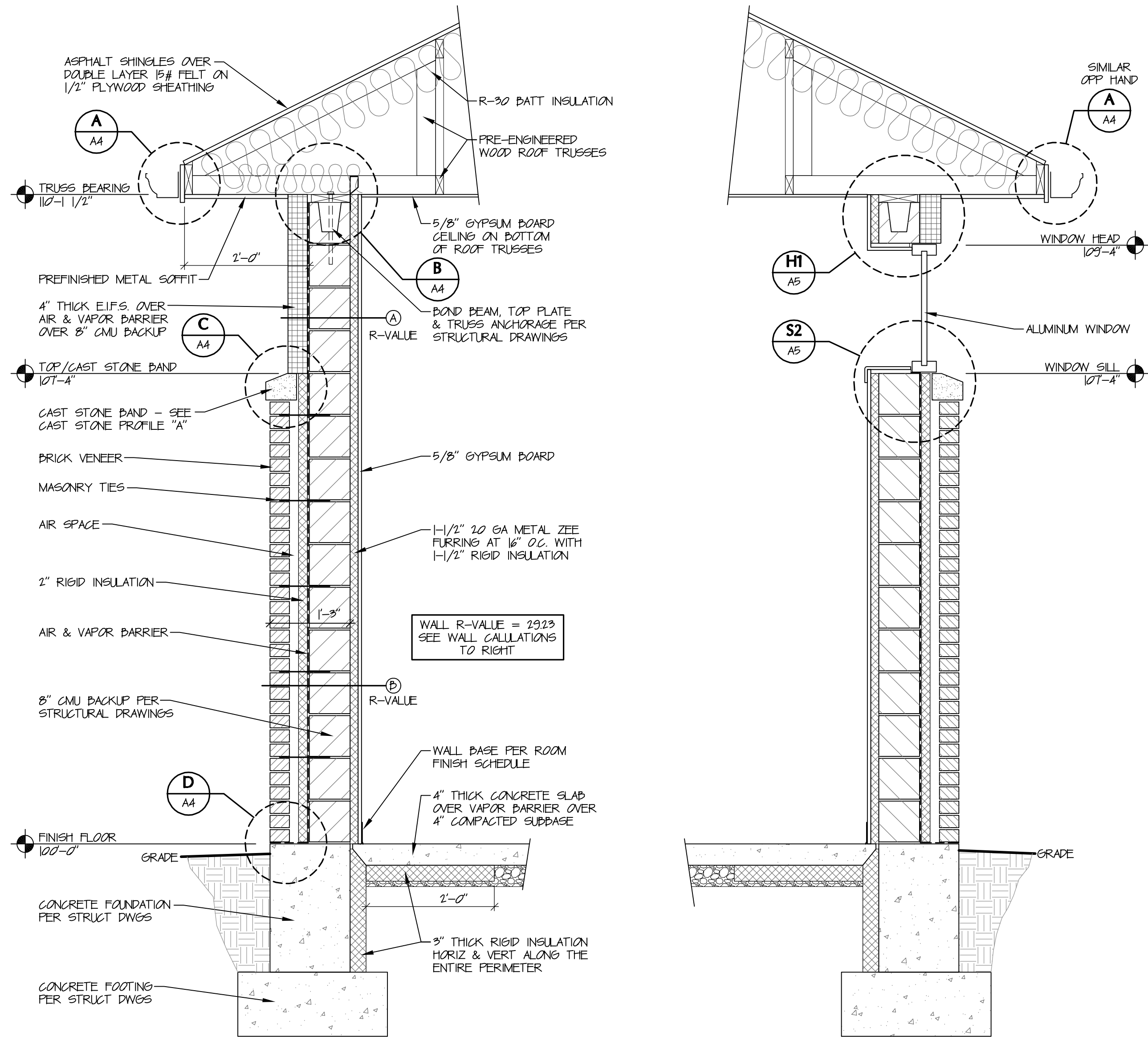
BUILDING SECTION

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

2

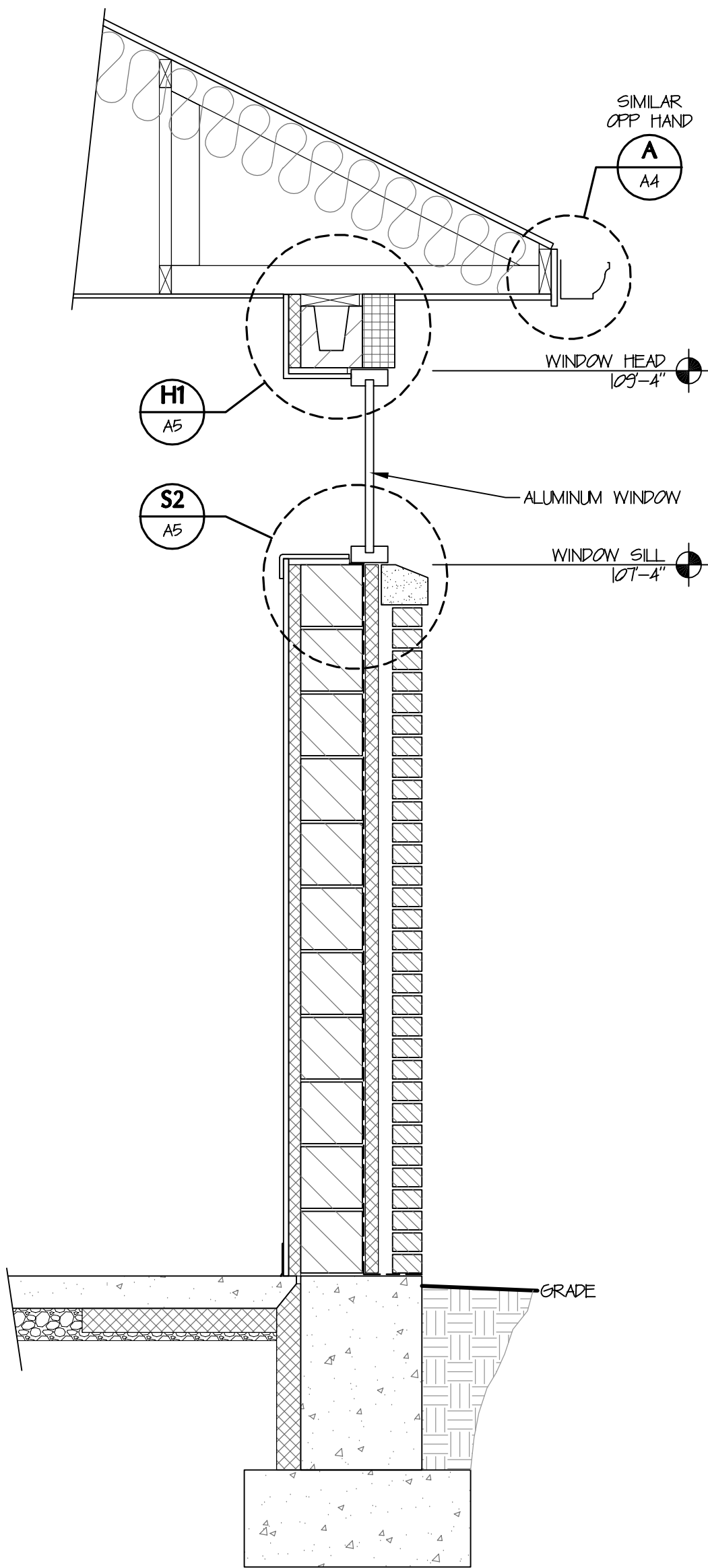
AI

N:\Architectural\Projects\06308\1206308121-451.dwg, A4, 8/29/2025 11:55:48 AM, Craig



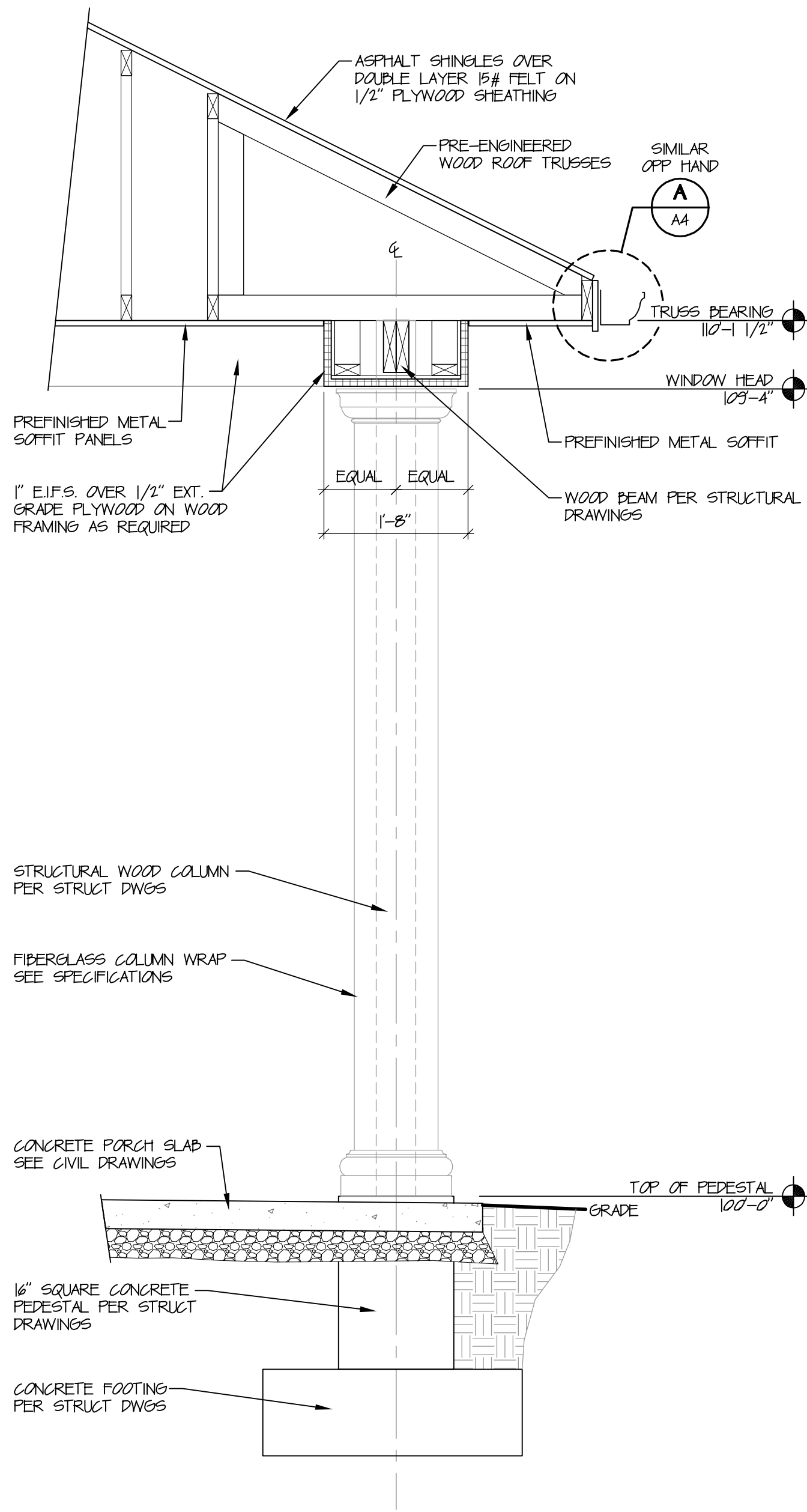
WALL SECTION 1

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



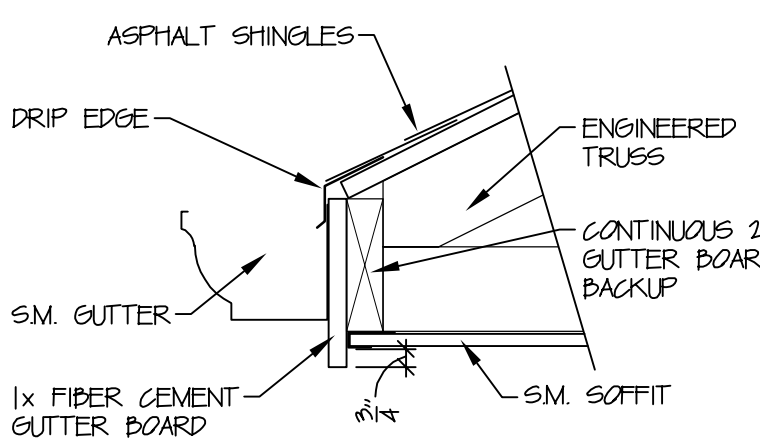
WALL SECTION 2

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



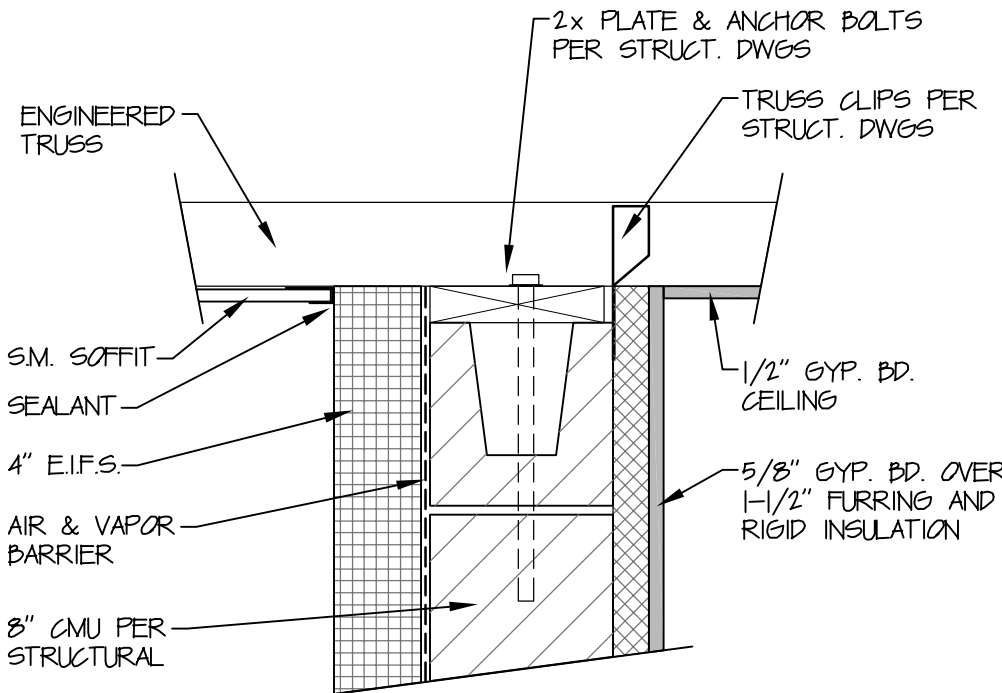
WALL SECTION 3

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



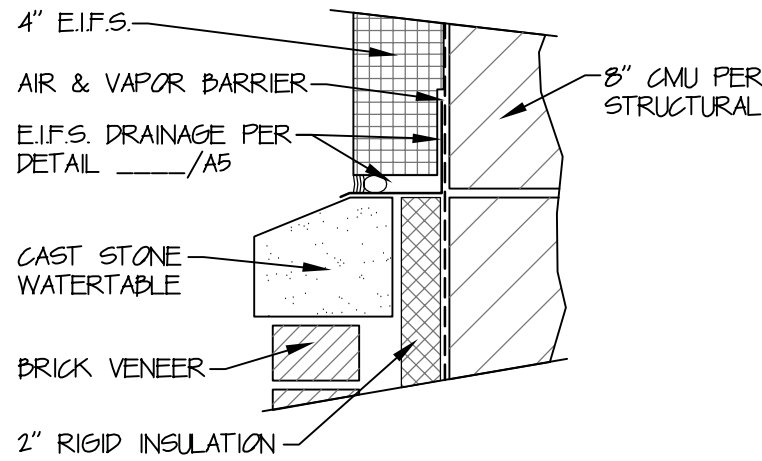
DETAIL A

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



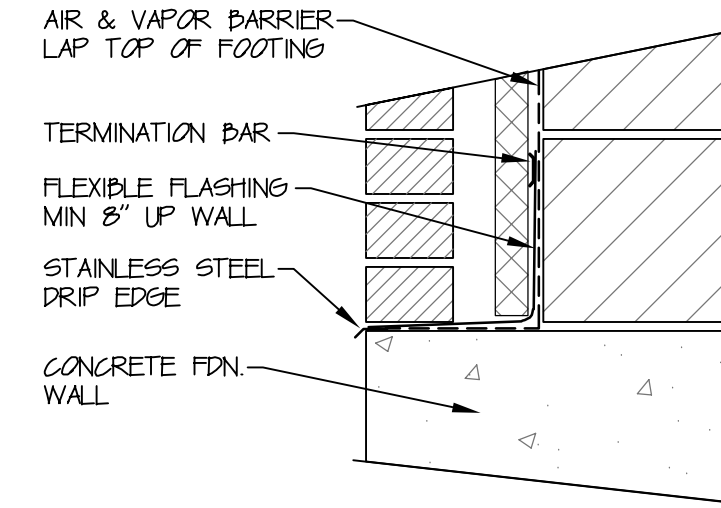
DETAIL B

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



DETAIL C

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



DETAIL D

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

WALL CONSTRUCTION "A"

EXT AIR FILM	0.17
4" EIFS INSULATION	16.00
8" CMU GROUTED	5.62
48" O.C. BALANCE	
FOAM FILLED	
1-1/2" RIGID INSULATION	8.55
5/8" GYPSUM BOARD	0.56
INT AIR FILM	0.68
WALL R-VALUE	31.58

WALL CONSTRUCTION "B"

EXT AIR FILM	0.17
FACE BRICK	0.44
AIR SPACE	1.00
2" RIGID INSULATION	11.40
8" CMU GROUTED	5.62
48" O.C. BALANCE	
FOAM FILLED	
1-1/2" RIGID INSULATION	8.55
5/8" GYPSUM BOARD	0.56
INT AIR FILM	0.68
WALL R-VALUE	78.42

AVERAGE R-VALUE

WALL CONSTRUCTION "A"	10.83
(79.3 % OF OVERALL WALL)	
WALL CONSTRUCTION "B"	8.40
(26.6 % OF OVERALL WALL)	
AVERAGE WALL R-VALUE	23.23
AVERAGE WALL U-VALUE	0.34

Issue/Revision	No.	Date
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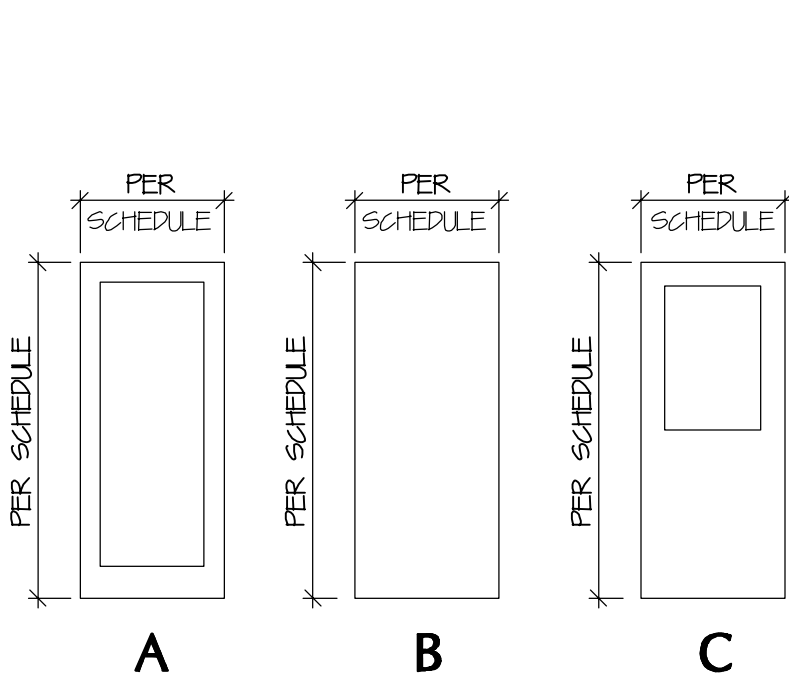
**RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065**

N:\Architectural Projects\06000\06308.12\06308121-4T1.dwg, A5, 8/29/2025 11:56:59 AM, Craig

DOOR SCHEDULE										
DOOR NUM	HARDWARE SET #	DOOR DATA			FRAME DATA		DETAILS			NOTES
		AMT	DOOR SIZE	MATERIAL	ELEV.	MATERIAL	ELEV.	HEAD	JAMB	SILL
101	1	1	3'-0" x 7'-0"	ALUMINUM	A	ALUMINUM	A	H1	J1	S1
102	2	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	A	HOLLOW METAL	A	H2	J2	N/A
103	2	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
104	2	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	C	HOLLOW METAL	C	H2	J2	N/A
105	3	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
106	4	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
107	4	1	2'-6" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
108	4	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
109	5	1	3'-0" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A
110	4	1	2'-6" x 7'-0" x 1-3/4"	HOLLOW METAL	B	HOLLOW METAL	B	H2	J2	N/A

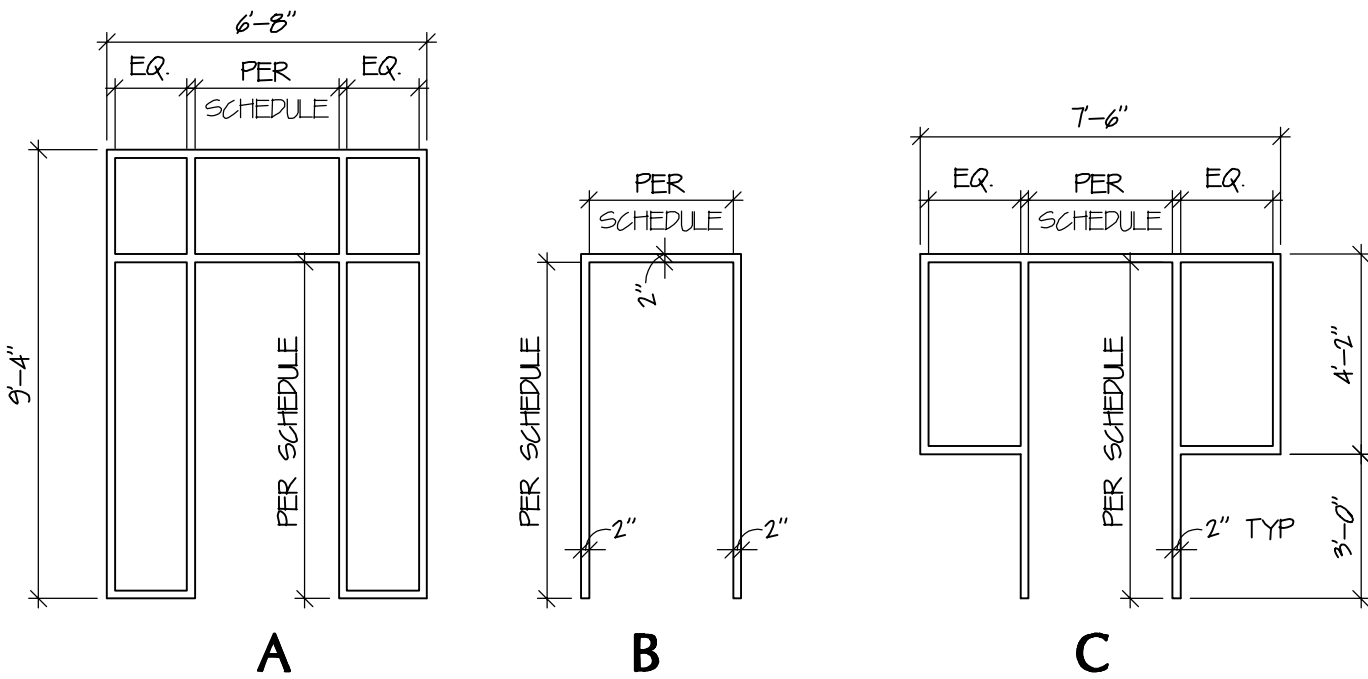
DOOR HARDWARE SETS

HARDWARE SET #1	HARDWARE SET #3
CONTINUOUS ALUMINUM HINGE OFFICE FUNCTION LOCK AND CORE ELECTRIC STRIKE PROXIMITY CARD READER FRAME WIRING HARNESS CLOSER WEATHER STRIPPING / GASKETING DOOR SWEEP ACCESSIBLE THRESHOLD	(3) 45 x 45 HINGES STOREROOM FUNCTION LOCK WITH LEVER HANDLES CLOSER SET OF SILENCERS
HARDWARE SET #2	HARDWARE SET #4
(3) 45 x 45 HINGES OFFICE FUNCTION LOCK WITH LEVER HANDLES SET OF SILENCERS	(3) 45 x 45 HINGES STOREROOM FUNCTION LOCK WITH LEVER HANDLES SET OF SILENCERS
HARDWARE SET #3	HARDWARE SET #5
(3) 45 x 45 HINGES OFFICE FUNCTION LOCK WITH LEVER HANDLES SET OF SILENCERS	(3) 45 x 45 HINGES PRIVACY FUNCTION LOCK WITH OCCUPANCY INDICATOR (EGRESS PERMITTED AT ALL TIMES) LEVER HANDLES EMERGENCY OVERRIDE KEY SET OF SILENCERS



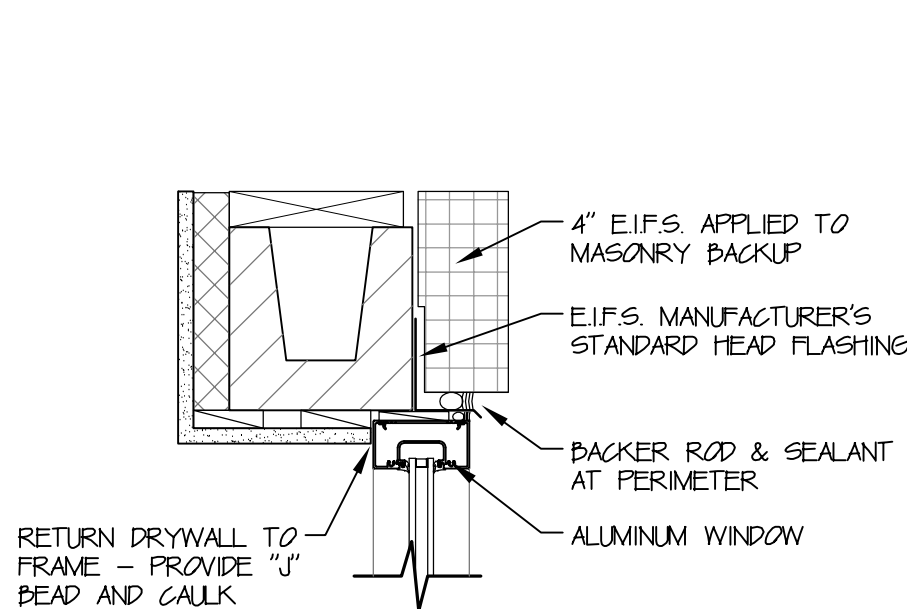
DOOR ELEVATIONS

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



DOOR FRAME ELEVATIONS

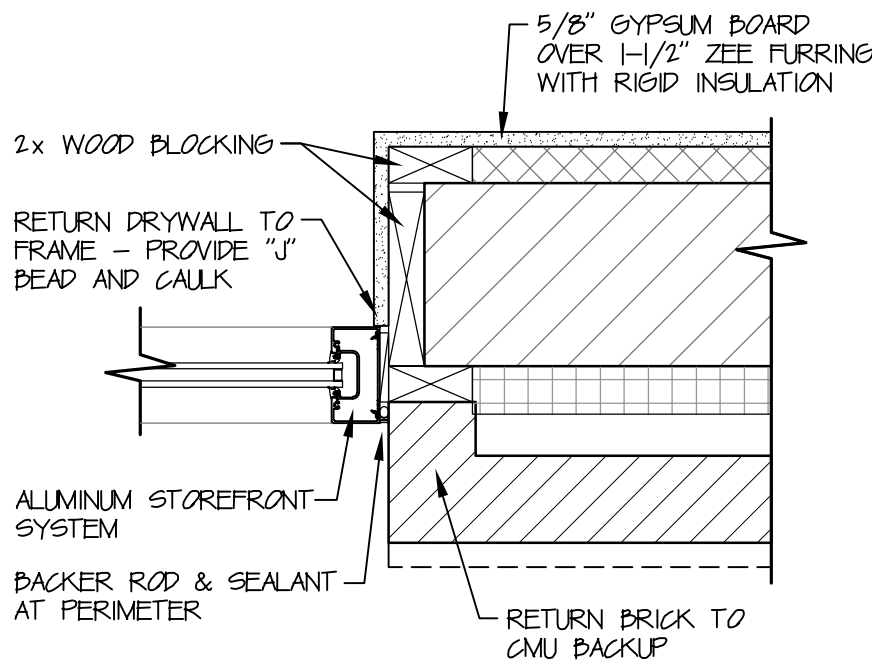
SCALE: 1/4" = 1'-0"



HEAD DETAIL

H1
A5

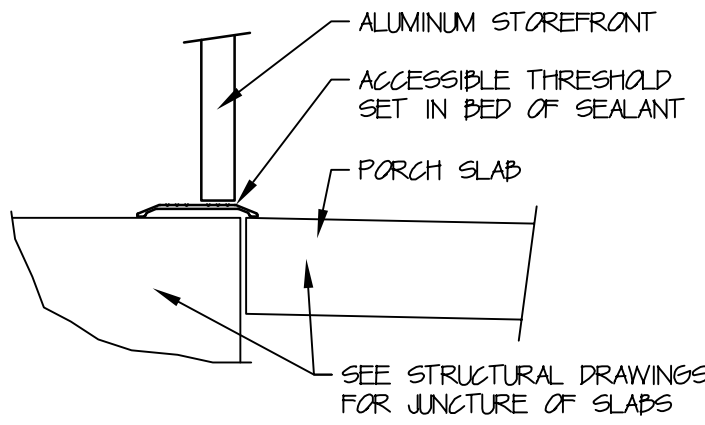
SCALE: 1 1/2" = 1'-0"



JAMB DETAIL

J1
A5

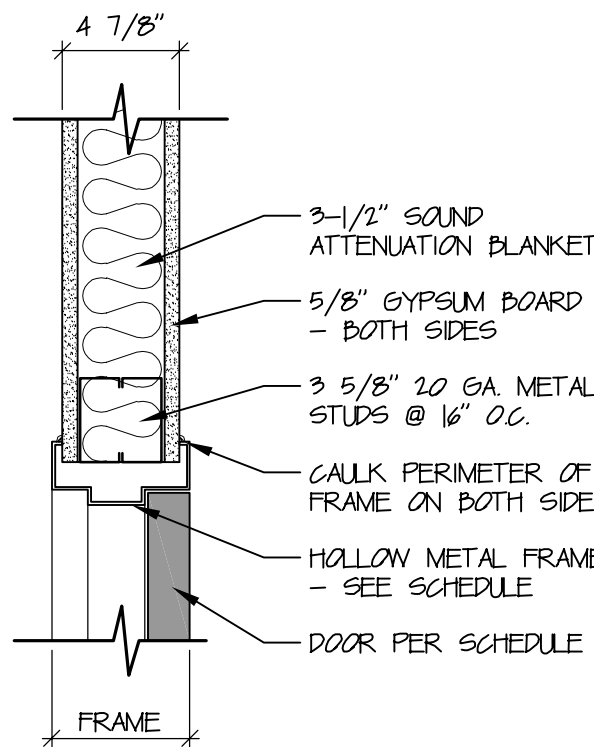
SCALE: 1 1/2" = 1'-0"



SILL DETAIL

S1
A5

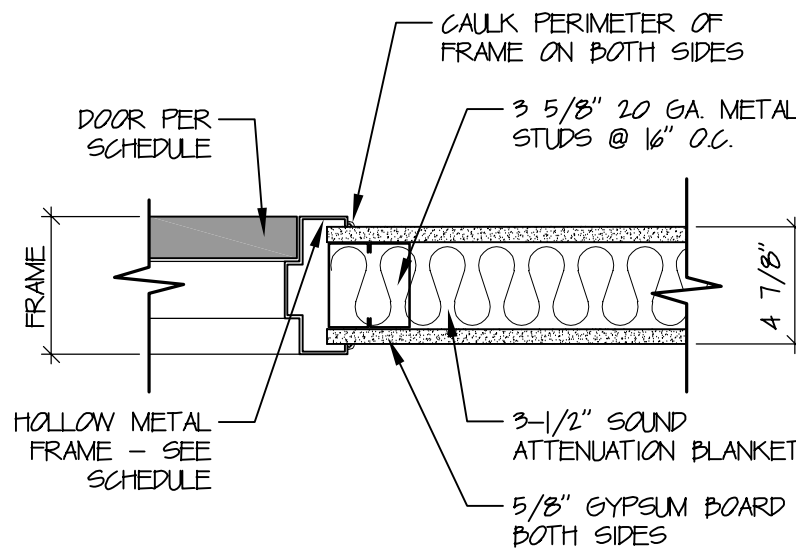
SCALE: 1 1/2" = 1'-0"



HEAD DETAIL

H2
A5

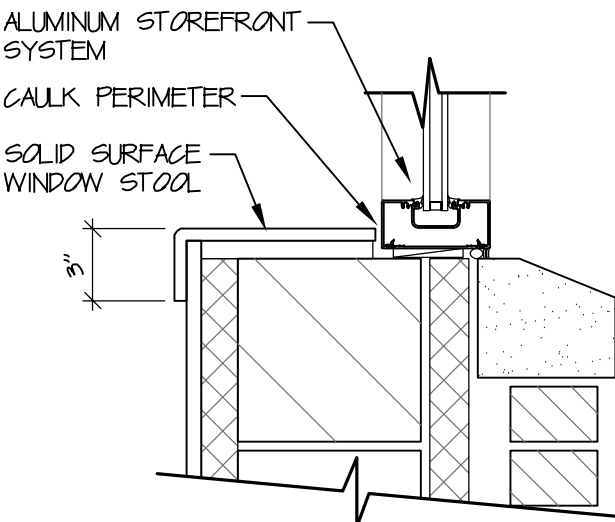
SCALE: 1 1/2" = 1'-0"



JAMB DETAIL

J2
A5

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



SILL DETAIL

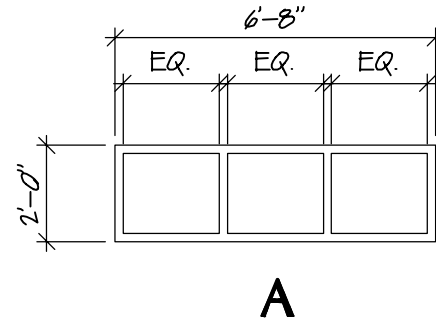
S2
A5

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

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM DESIGNATION	CEILINGS		W A L L S				FLOOR	BASE	NOTES
		HEIGHT	TYPE	NORTH	EAST	SOUTH	WEST			
101	VESTIBULE	10'-0"	C-1	W-1	W-1	W-1	W-1	F-1	B-1	1
102	CONFERENCE SPACE	10'-0"	C-1	W-1	W-1	W-1	W-1	F-1	B-1	1 & 2
103	OFFICE	10'-0"	C-1	W-1	W-1	W-1	W-1	F-2	B-1	1
104	CONTROLS ROOM	10'-0"	C-1	W-2	W-1	W-1	W-1	F-1	B-1	1
105	ELECTRIC ROOM	10'-0"	C-1	W-2	W-2	W-1	W-1	F-3	B-1	1 & 3
106	CLOSET	10'-0"	C-1	W-1	W-2	W-1	W-1	F-1	B-1	1
107	CLOSET	10'-0"	C-1	W-1	W-1	W-1	W-1	F-1	B-1	1
108	BREAK AREA	10'-0"	C-1	W-1	W-1	W-1	W-1	F-1	B-1	1 & 2
109	MECHANICAL	10'-0"	C-1	W-1	W-2	W-1	W-1	F-3	B-1	1
110	RESTROOM	10'-0"	C-1	W-1/W-3	W-1/W-3	W-1	W-1/W-3	F-1	B-2	1, 4 & 5
111	CLOSET	10'-0"	C-1	W-1	W-1	W-1	W-1	F-1	B-1	1

MATERIALS LEGEND

CEILINGS	
C-1	PAINTED GYPSUM BOARD
C-2	
WALLS	
W-1	PAINTED GYPSUM BOARD
W-2	PAINTED MASONRY
W-3	CERAMIC TILE
FLOORS	
F-1	PORCELAIN TILE
F-2	CARPET TILE
F-3	SEALED CONCRETE
BASE	
B-1	RUBBER
B-2	PORCELAIN TILE



A

WINDOW ELEVATIONS

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

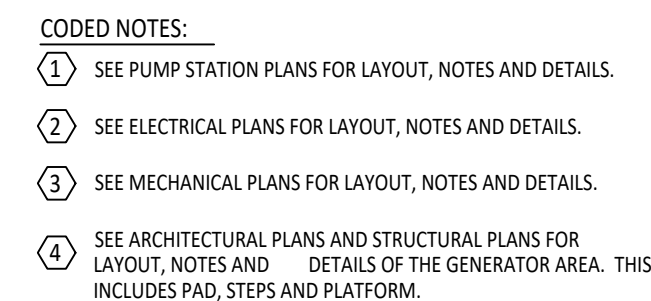
WINDOW SCHEDULE				
MARK	WIDTH	HEIGHT	TOP OF FRAME	TYPE OF GLASS
<A>	6'-8"	2'-0"	109'-4"	1" INSULATED

Issue/Revision	No.	Date
BID/PERMIT		08/15/25

**RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION**

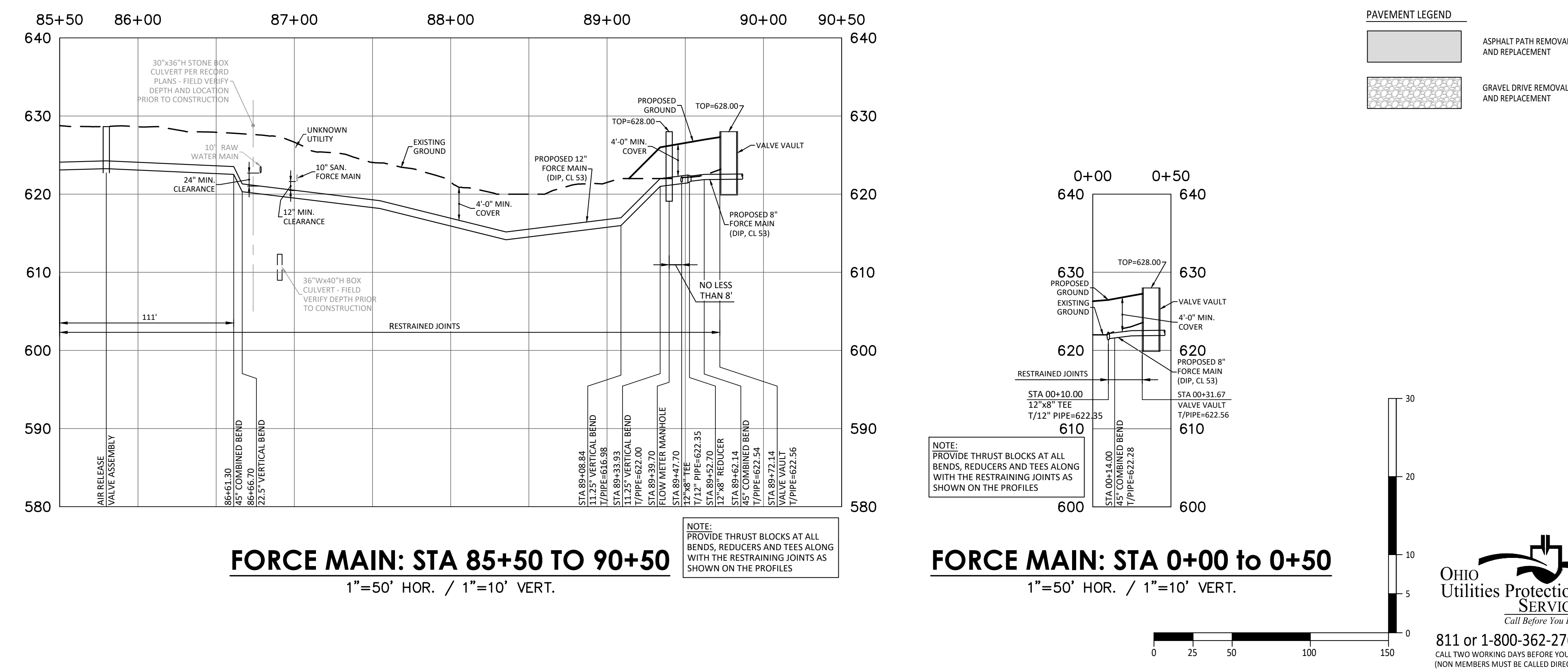
**THE CITY OF SOUTH LEBANON
WARREN COUNTY, OHIO**

Project Number	06308.12
Drawing Scale	1" = 50'
Sheet Number	C9
File Number	06308



LITTLE MIAMI RIVER RIPARIAN SETBACK
THE FORCE MAIN IS WITHIN THE SETBACK
FROM STA 20+80 TO STA 89+73 (END)

FLOODPLAIN AND FLOODWAYS
THE LOCATION OF THE FLOODPLAIN AND FLOODWAY ARE BASED
ON FEMA MAP NUMBER 39165C0226F, APRIL 23, 2025 AND FEMA
MAP NUMBER 39165C0227F, APRIL 23, 2025.



[illegible]

06308 12

**CONTROL
BUILDING SITE
GRADING PLAN**

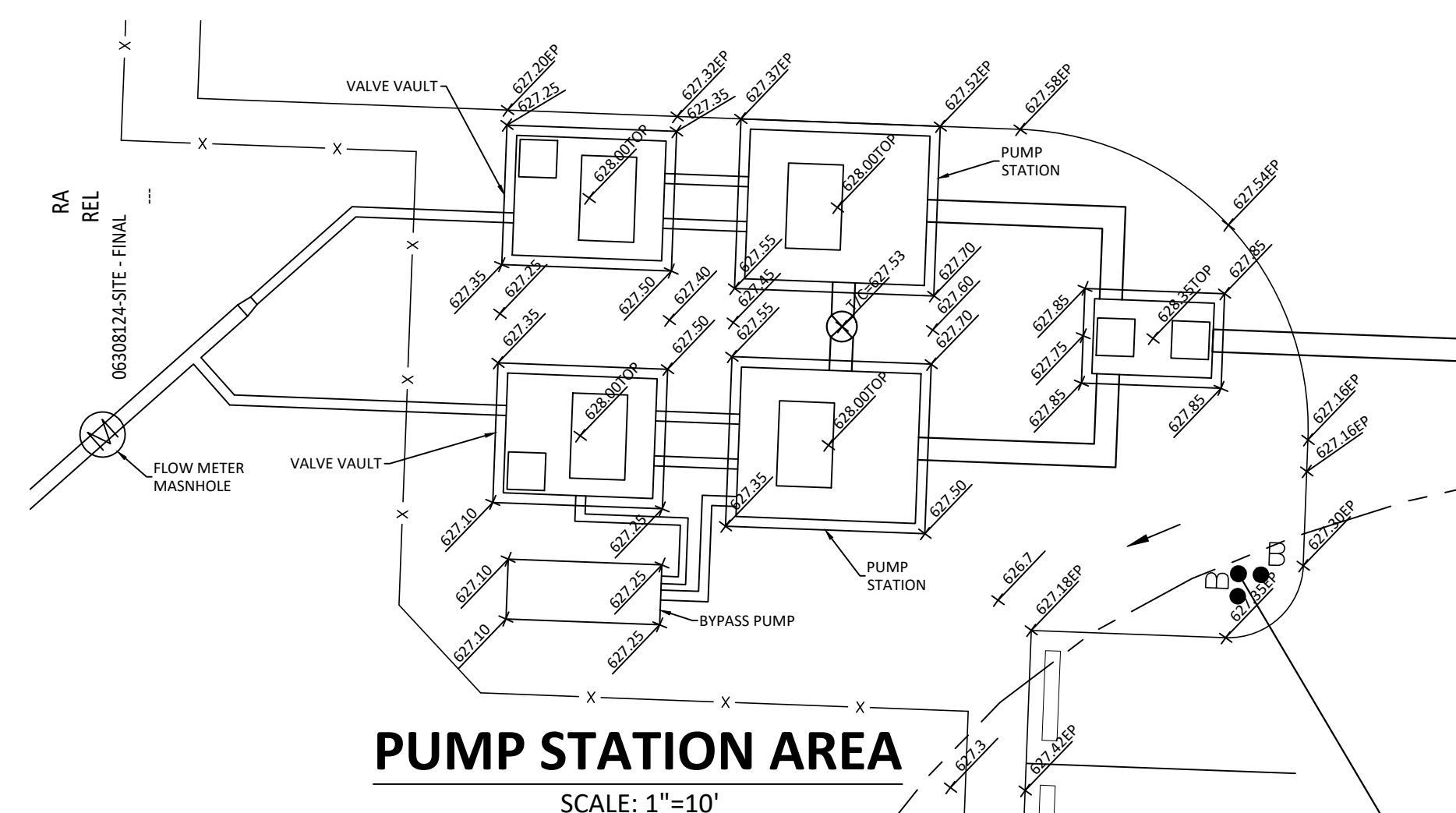
LEGEND

EXISTING FEATURES

- ⊙ MANHOLE
- ▭ CATCH BASIN/DRAIN
- GUTTER INLET
- CLEAN OUT
- ⊕ DOWNSPOUT
- ⊖ UTILITY POLE
- ⊗ ELECTRIC BOX
- ⊙ TELEPHONE BOX
- ⊙ CABLE TV BOX
- ☆ TRAFFIC SIGNAL/AMP POST
- ⊙ LIGHT POLE/SIGNAL/BOX
- ⊙ FIRE HYDRANT
- ⊙ WATER VALVE/METER
- ⊙ SPRINKLER/VALVE
- ⊙ GAS VALVE/METER
- ⊙ SIGN/SIGN POST
- ⊙ FLAG POLE
- ⊙ MAIL BOX
- ▽ PARKING METER
- ⊙ GUARD POST
- ♿ HANDICAPPED PARKING
- S — SANITARY SEWER
- ST — STORM SEWER
- W — WATER LINE
- G — GAS LINE
- E — ELECTRIC LINE
- T — TELEPHONE LINE
- OH — OVERHEAD UTILITY LINE
- X — FENCE LINE

FLOODPLAIN AT CONTROL BUILDING AND PUMP STATIONS
THE ELEVATION OF THE FLOODPLAIN IN THIS AREA IS 627.00
PER FEMA MAP NUMBER 39165C0226F, APRIL 23, 2025.

811 or 1-800-362-2764
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)



PUMP STATION AREA

SCALE: 1"=10'

WARREN COUNTY COMMISSIONER
O.R. 1288, PG. 16 (PAR. 1)
+3.85 AC. PER DEED
DEED DESC. DOES NOT CLOSE
SAVE & EXCEPT 0.413 AC.
SAVE & EXCEPT 0.373 AC.
3.064 AC. REMAINING
S.R. 41-69

CITY OF SOUTH LEBANON
VOL. 151, PG. 16
2.941 ACRES
TOGETHER WITH R/W FOR
INGRESS AND EGRESS TO
MAIN STREET

OHIO DEPARTMENT
OF NATURAL RESOURCE
O.R. 31, PG. 913
PT. 33.21 AC.

LITTLE MIAMI SCENIC TRAIL
(FORMER LITTLE MIAMI R.R. R/W)

MICHAEL WARD AND
JANET MEINERS
D.B. 114, PG. 695 (TRACT II)
3.097 AC. PER DEED
S.R. 42-18

TOMMY L. DAVENPORT AND
FLORICE M. DAVENPORT
O.R. 4768, PG. 821
0.801 AC. PER DEED
S.R. 36-72

KIMBERLY COLLINS
AND AMY COOMER
DOC. 2018-035127
NO ACREAGE IN DEE

NO ACREAGE IN DEC.

MICHAEL A. HOYLE
DOC. 2016-039011
0.3444 AC. PER DEE
S.R. 144-96

Sheet Title

Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number C24
File Number 06308

-

IS

-

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

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

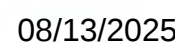
HAWA PROJ. NO. 21082

DESIGNED BY
J.J. WINSLOW

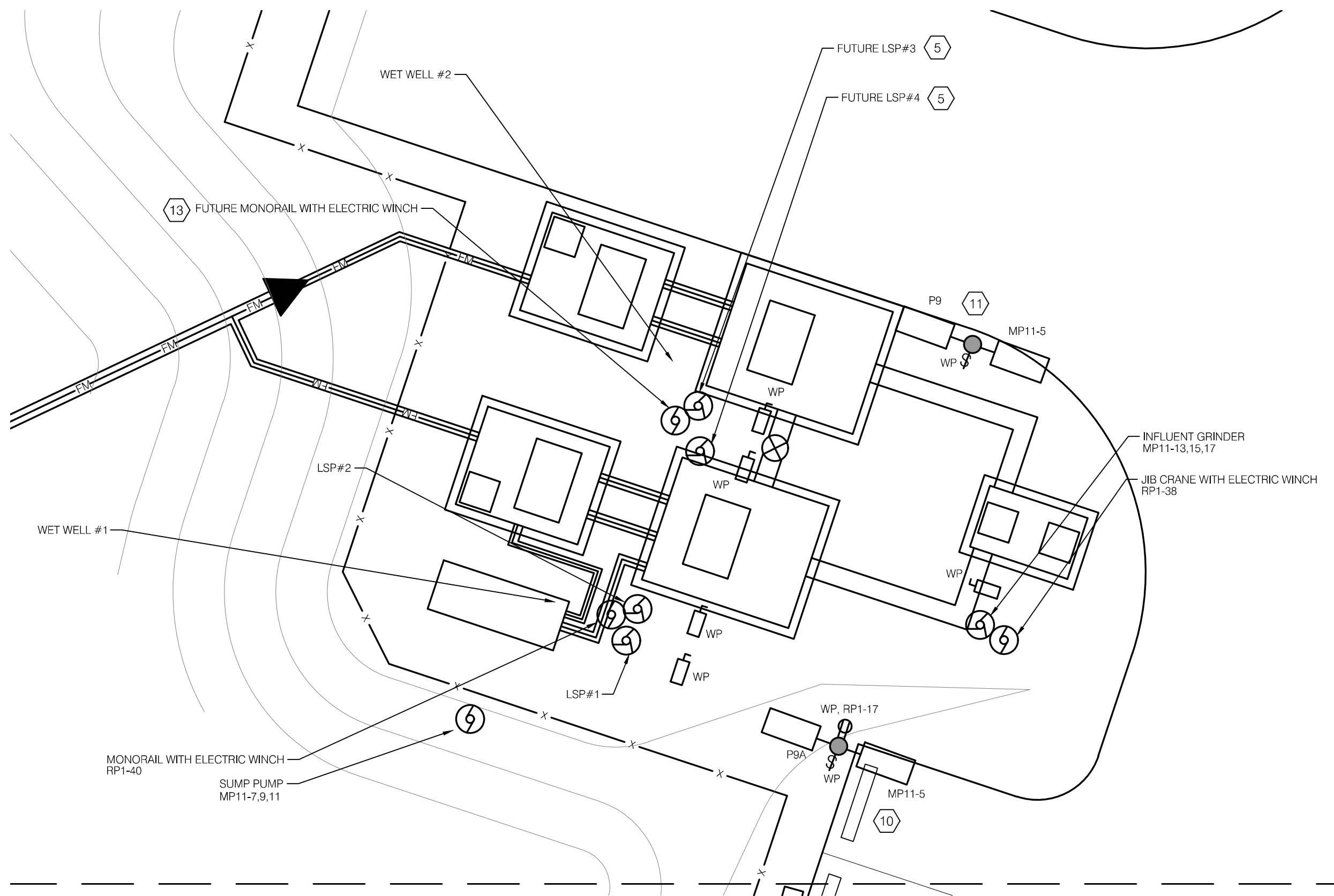
DRAWN BY
JAI

CHECKED BY

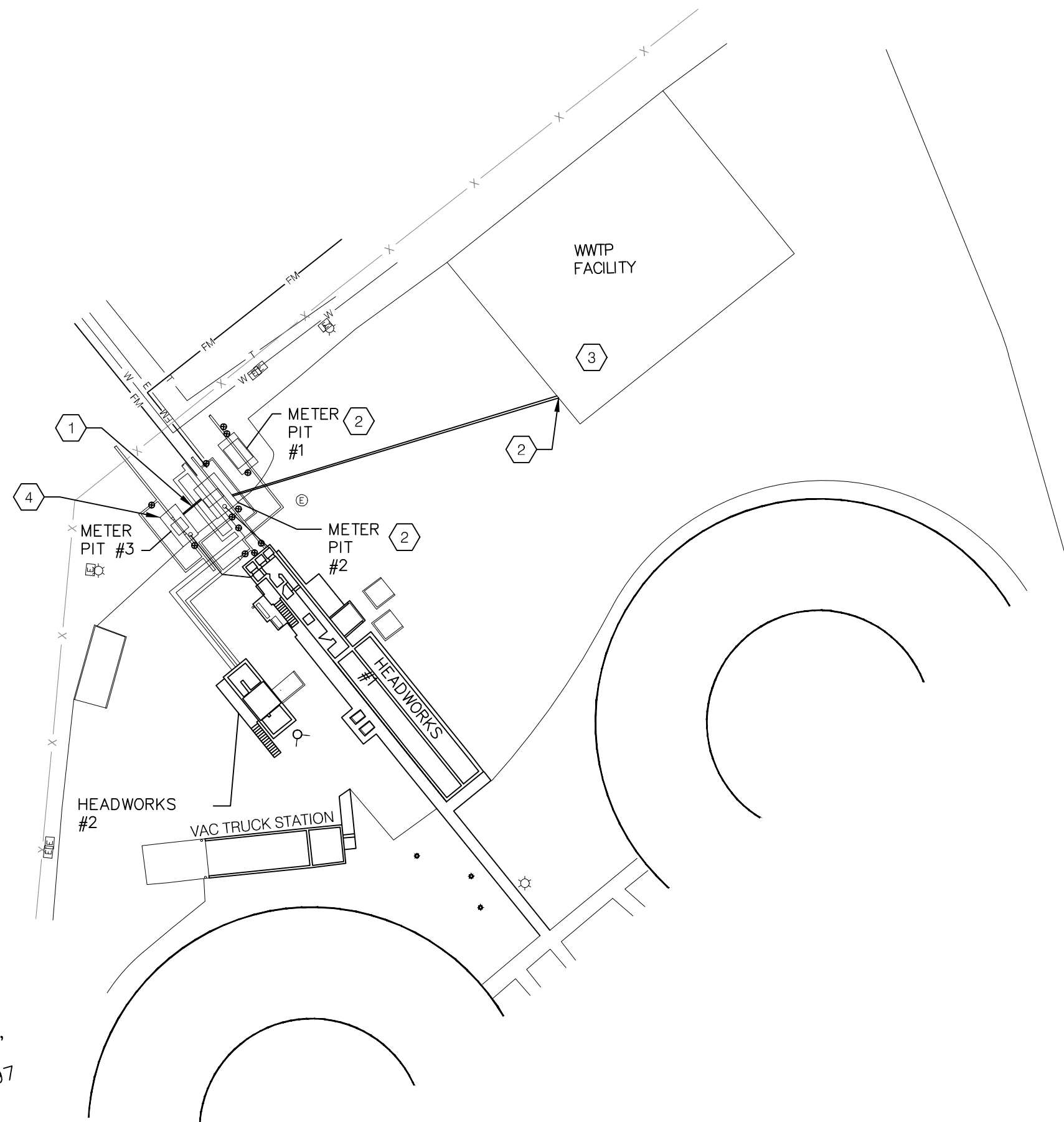
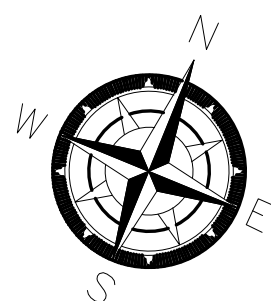
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ROLE

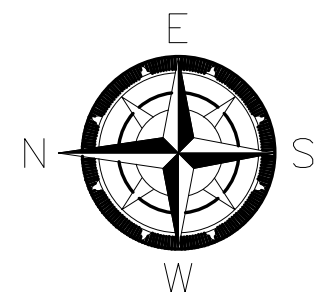


3 CALLOUT – SITE PLAN
SCALE: 1/8" = 1'-0"

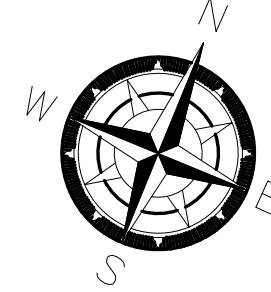


CITY OF LEBANON,
OHIO
O.R. 240, PG. 497
38.405 AC.
S.R. 44-73

1 METER PIT POWER PLAN
SCALE: 1" = 40'-0"



2 SITE PLAN
SCALE: 1" = 40'-0"



CODED NOTES

1. PROVIDE TWO 3/4" CONDUITS FROM METER PIT #2 TO METER PIT #3. ONE FOR POWER, ONE FOR CONTROL WIRING.
2. REUSE EXISTING POWER AND CONTROL CONDUITS FROM METER PITS #2 & #1 BACK TO THE OFFICE AND MAINTENANCE FACILITY (WTP FACILITY).
3. DISCONNECT AND REMOVE POWER WIRING FROM METER PITS #1 & #2 BACK TO SOURCE IN OFFICE AND MAINTENANCE FACILITY (WTP FACILITY). PROVIDE NEW 2#10 XHHW-2, 1#10 XHHW-2 G WIRE FROM SOURCE TO METERS IN PITS #1, #2, & #3. PROVIDE GF BREAKER AT PANEL FOR CIRCUIT THAT FEEDS THESE METERS.
4. DISCONNECT AND REMOVE EXISTING CONDUIT & WIRE IN METER PIT #3. PROVIDE ONE NEW 3/4" CONTROL AND ONE 3/4" POWER CONDUITS IN METER PIT #3 FROM PIT TO OFFICE AND MAINTENANCE BUILDING. PROVIDE ALL NEW CONTROL WIRE FOR WET LOCATION - HONEYWELL 18 AWG 4/C OR APPROVED EQUAL FROM METER PIT #3 TO METER PIT #2. ELECTRICAL CONTRACTOR SHALL INSTALL FLOW METER FURNISHED BY OWNER IN METER PIT #3. PROVIDE 2#10, 1#10G, 3/4" CONDUIT BACK TO OFFICE AND MAINTENANCE FACILITY (WTP FACILITY).
5. ADD TWO 1 1/4" CONDUITS FOR FUTURE LIFT STATION PUMPS WITH PULLSTRINGS TO LOCATION OF FUTURE DISCONNECTS.
6. APPROXIMATE LOCATION OF UTILITY PAD MOUNTED TRANSFORMER AND METER ENCLOSURE. PROVIDE 10'-0" CLEARANCE AROUND TRANSFORMER TO MEET DUKE ENERGY REQUIREMENTS.
7. PROVIDE (2) 5" SCHEDULE 40 PVC CONDUITS FOR ELECTRIC POWER.
8. PROVIDE (2) 4" SCHEDULE 40 PVC CONDUITS FOR TELECOM SERVICE ENTRANCE.
9. APPROXIMATE LOCATIONS OF DUKE UTILITY POLE.
10. POLE FIXTURE ON EAST SIDE SHALL BE PHOTOCELL CONTROLLED. FIXTURE ON WEST SIDE SHALL BE SWITCH CONTROLLED.
11. BOTH POLE FIXTURES SHALL BE SWITCH CONTROLLED.
12. PROVIDE 2#12, 1#12G, 1" PVC CONDUIT FOR POWER TO GATE. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER. PROVIDE A 1" PVC CONDUIT FROM GATE TO CONTROL BUILDING FOR CONTROL WIRING BY OTHERS.
13. PROVIDE 1" CONDUIT FROM PANEL "RP1" FOR FUTURE LIFT STATION MONORAIL.
14. PROVIDE TWO 4" PVC CONDUITS WITH PULL STRING FROM NEW CONTROL BUILDING TO FUTURE BUILDING LOCATION.
15. PROVIDE 18"x18" IN GROUND HANDHOLE BOX FOR ELECTRICAL. REFERENCE SHEET E6/DETAIL C.
16. PROVIDE 4"x4" IN GROUND HANDHOLE BOX FOR ELECTRICAL. REFERENCE SHEET E6/DETAIL C.
17. PATHWAY OF BRANCH CIRCUITS TO PITS. REFERENCE SHEET E5/DETAIL E.
18. PATHWAY OF CONTROL CIRCUITS TO PITS. REFERENCE SHEET E6/DETAIL A.
19. PATHWAY OF CIRCUITS TO EAST SIDE BRANCH CIRCUITS. REFERENCE SHEET E6/DETAIL B.
20. PROVIDE 4"x4" IN GROUND HANDHOLE BOX FOR TELECOM. REFERENCE SHEET E6/DETAIL D.

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF RECEPTACLES AND OTHER WALL MOUNTED DEVICES WITH ARCHITECTURAL PLANS, ELEVATIONS AND FINISHES. LABEL RECEPTACLES WITH PANEL AND CIRCUIT NUMBER. PROVIDE #10 WIRE FOR ALL 20 AMP CIRCUITS AND #8 WIRE FOR ALL 30 AMP CIRCUITS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT NAMEPLATE DATA. THE CONTRACTOR SHALL MAKE APPROPRIATE ADJUSTMENTS TO WIRE AND OVERCURRENT PROTECTION DEVICE IN ACCORDANCE WITH NAMEPLATE DATA.
3. COORDINATE WITH ARCHITECTURAL, AV AND FURNITURE DRAWINGS FOR EXACT LOCATION AND ROUGH-IN HEIGHT FOR TV, PROJECTION SCREENS.
4. ALL CONDUIT AND BOXES SHALL BE RECESSED AND CONCEALED, UNLESS OTHERWISE NOTED.
5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH THE ELECTRICAL FIRESTOPPING SPECIFICATIONS.
6. ELECTRICAL CONTRACTOR TO PROVIDE PATHWAYS FOR THE TELEPHONE/DATA WIRING BY OTHERS.
7. VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF NEW WORK. CUTTING OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE ARCHITECT.
9. ALL CONDUIT AND BOXES SHALL BE RECESSED AND CONCEALED, UNLESS OTHERWISE NOTED.
10. ALL SWITCHES AND CIRCUIT BREAKERS ARE 3-POLE UNLESS OTHERWISE NOTED.
11. COORDINATE WITH BECKMAN ENVIRONMENTAL SERVICES DRAWINGS FOR WORK FOR THE PUMP STATION.

Project Manager DCC
Drawn By CSW
DWG
X-Ref(s) NONE

Issue/Revision	No.	Date
BID/PERMIT		08/15/2025

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08/13/2025

RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065

Sheet Title
ELECTRICAL SITE PLAN &
METER PIT

Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number E3
File Number



HAWA Incorporated
881 OLD HENDERSON ROAD
COLUMBUS, OHIO 43220
614-451-1711
4655 EXECUTIVE PARK DRIVE
SUITE 420, CINCINNATI, OHIO
513-771-6640

HAWA PROJ. NO. 21082

DESIGNED BY
J.J. WINSLOW
DRAWN BY
JAI
CHECKED BY
BRS

AMP	CODE	DESCRIPTION
20	20 A	4#12 & 1#12 G - 3/4" C.
20	20 B	3#12 & 1#12 G - 3/4" C.
25	25 A	4#10 & 1#10 G - 3/4" C.
25	25 B	3#10 & 1#10 G - 3/4" C.
30	30 A	4#10 & 1#10 G - 3/4" C.
30	30 B	3#10 & 1#10 G - 3/4" C.
35	35 A	4#8 & 1#10 G - 3/4" C.
35	35 B	3#8 & 1#10 G - 3/4" C.
40	40 A	4#8 & 1#10 G - 1" C.
40	40 B	3#8 & 1#10 G - 3/4" C.
45	45 A	4#6 & 1#10 G - 1" C.
45	45 B	3#6 & 1#10 G - 3/4" C.
50	50 A	4#6 & 1#10 G - 1" C.
50	50 B	3#6 & 1#10 G - 3/4" C.
60	60 A	4#4 & 1#10 G - 1" C.
60	60 B	3#4 & 1#10 G - 1" C.
60	60 N	3#4, 1#1/0 & 1#10 G - 1 1/4" C.
70	70 A	4#4 & 1#8 G - 1 1/4" C.
70	70 B	3#4 & 1#8 G - 1" C.
80	80 A	4#3 & 1#8 G - 1 1/4" C.
80	80 B	3#3 & 1#8 G - 1" C.
90	90 A	4#2 & 1#8 G - 1 1/4" C.
90	90 B	3#2 & 1#8 G - 1 1/4" C.
100	100 A	4#1 & 1#8 G - 1 1/4" C.
100	100 B	3#1 & 1#8 G - 1 1/4" C.
100	100 N	3#1, 1#2/0 & 1#8 G - 1 1/2" C.
110	110 A	4#1 & 1#6 G - 1 1/4" C.
110	110 B	3#1 & 1#6 G - 1 1/4" C.
125	125 A	4#1 & 1#6 G - 1 1/4" C.
125	125 B	3#1 & 1#6 G - 1 1/4" C.
150	150 A	4#1/0 & 1#6 G - 2" C.
150	150 B	3#1/0 & 1#6 G - 1 1/2" C.
150	150 N	3#1/0, 2#3/0 & 1#6 G - 2" C.
175	175 A	4#2/0 & 1#6 G - 2" C.
175	175 B	3#2/0 & 1#6 G - 2" C.
200	200 A	4#3/0 & 1#6 G - 2" C.
200	200 B	3#3/0 & 1#6 G - 2" C.
200	200 N	3#3/0, 1#500 & 1#6 G - 2 1/2" C.
225	225 A	4#4/0 & 1#4 G - 2 1/2" C.
225	225 B	3#4/0 & 1#4 G - 2" C.
225	225 N	3#4/0, 2#3/0 & 1#4 G - 2 1/2" C.
250	250 A	4#250 & 1#4 G - 3" C.
250	250 B	3#250 & 1#4 G - 2 1/2" C.
250	250 N	3#250, 2#4/0 & 1#4 G - 3" C.
300	300 A	4#350 & 1#4 G - 3" C.
300	300 B	3#350 & 1#4 G - 3" C.
300	300 N	3#350, 2#300 & 1#4 G - 3" C.
350	350 A	4#500 & 1#3 G - 3 1/2" C.
350	350 B	3#500 & 1#3 G - 3" C.
350	350 N	3#500, 2#350 & 1#3 G - 3" C.
400	400 A	2 SETS 4#3/0 & 1#3 G - 2" C.
400	400 B	2 SETS 3#3/0 & 1#3 G - 2" C.
400	400 N	3#600, 2#500 & 1#3 G - 3 1/2" C.
400	400 C	4#500 & 1#3 G - 3 1/2" C.
400	400 D	3#500 & 1#3 G - 3" C.
450	450 A	2 SETS 4#4/0 & 1#2 G - 2 1/2" C.
450	450 B	2 SETS 3#4/0 & 1#2 G - 2" C.
450	450 N	2 SETS 5#4/0 & 1#2 G - 2 1/2" C.
500	500 A	2 SETS 4#250 & 1#2 G - 3" C.
500	500 B	2 SETS 3#250 & 1#2 G - 2 1/2" C.
500	500 N	2 SETS 5#250 & 1#2 G - 3" C.
600	600 A	2 SETS 4#350 & 1#1 G - 3" C.
600	600 B	2 SETS 3#350 & 1#1 G - 3" C.
600	600 N	2 SETS 3#350, 2#300 & 1#1 G - 3" C.
700	700 A	2 SETS 4#500 & 1#1/0 G - 3 1/2" C.
700	700 B	2 SETS 3#500 & 1#1/0 G - 3" C.
700	700 N	2 SETS 5#500 & 1#1/0 G - 4" C.
800	800 A	2 SETS 4#600 & 1#1/0 G - 4" C.
800	800 B	2 SETS 3#600 & 1#1/0 G - 3 1/2" C.
800	800 U	2 SETS 4#600 - 4" C.
1000	1000 A	3 SETS 4#400 & 1#2/0 G - 3" C.
1000	1000 B	3 SETS 3#400 & 1#2/0 G - 3" C.
1200	1200 A	3 SETS 4#600 & 1#3/0 G - 4" C.
1200	1200 B	3 SETS 3#600 & 1#3/0 G - 3 1/2" C.
1600	1600 A	4 SETS 4#600 & 1#4/0 G - 4" C.
1600	1600 B	4 SETS 3#600 & 1#4/0 G - 3 1/2" C.
2000	2000 A	5 SETS 4#600 & 1#250 G - 4" C.
2500	2500 A	4 SETS 4#600 & 1#350 G - 4" C.
3500	3500 A	8 SETS 4#500 & 1#500 G - 4" C.

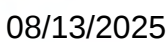


1. ALL SWITCHES AND CIRCUIT BREAKERS ARE 3-PHASE UNLESS OTHERWISE NOTED.
2. xxxKa INDICATED APPROXIMATE FAULT CURRENT AVAILABLE. ALL AVAILABLE FAULT CURRENT VALUES ON PLANS ARE PRELIMINARY AND BASED ON ASSUMED VALUES AT DESIGN. ALL ELECTRICAL EQUIPMENT SHALL BE SELECTED AND COMPLY WITH RATING DERIVED FROM THE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY AND ACTUALLY FIELD INSTALLED CONDITIONS.
3. SPD INDICATES AN EXTERNALLY MOUNTED SURGE PROTECTION DEVICE. REFER TO SPECIFICATIONS
4. TRANSFORMER GROUNDS SHALL BE ROUTED TO THE SERVICE ENTRANCE GROUND BUS LOCATED IN MAIN ELECTRICAL ROOM

1. COORDINATE WITH DUKE ENERGY FOR THE METER BASE, SOCKET AND CT CABINET REQUIREMENTS.
2. PROVIDE ONE 2" CONDUIT FOR GENERATOR CONTROL/MONITORING FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH. COORDINATE WITH GENERATOR MANUFACTURER.

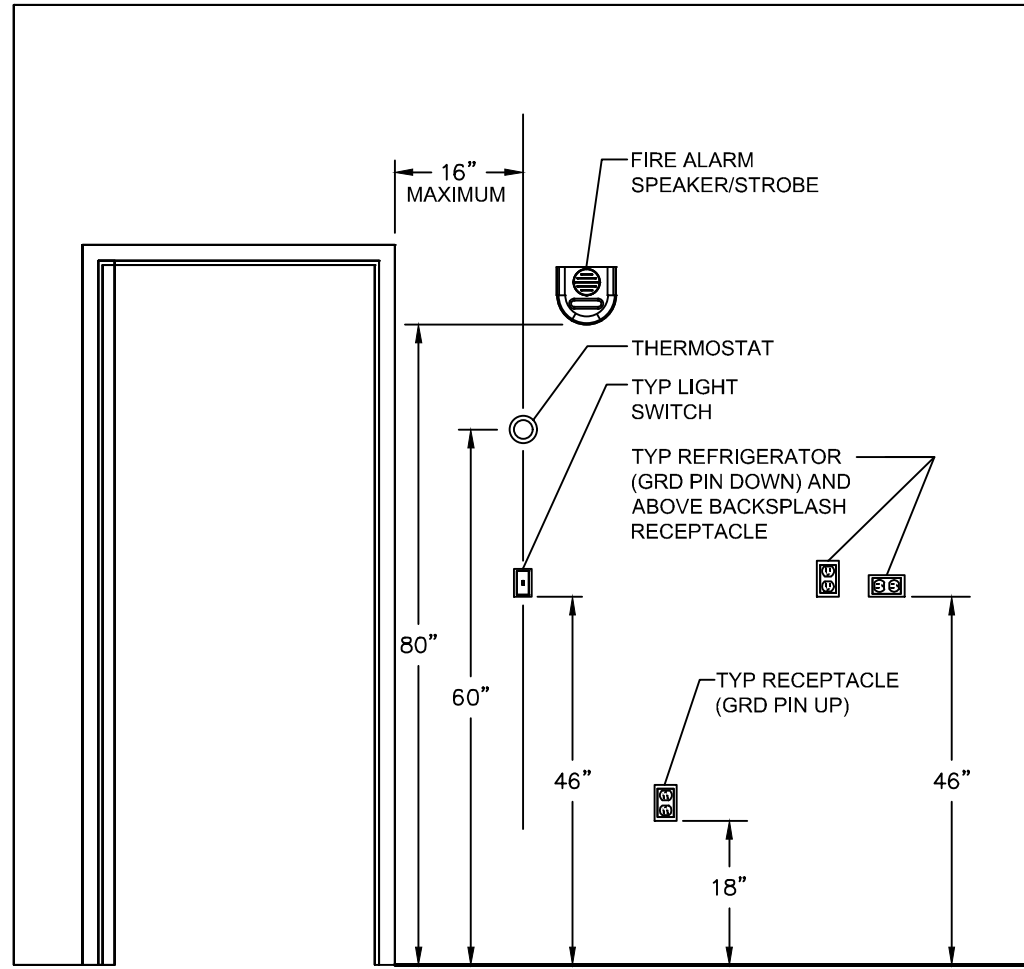
Project Manager	DCC
Drawn By	CSW
DWG	
X-Ref(s)	NONE

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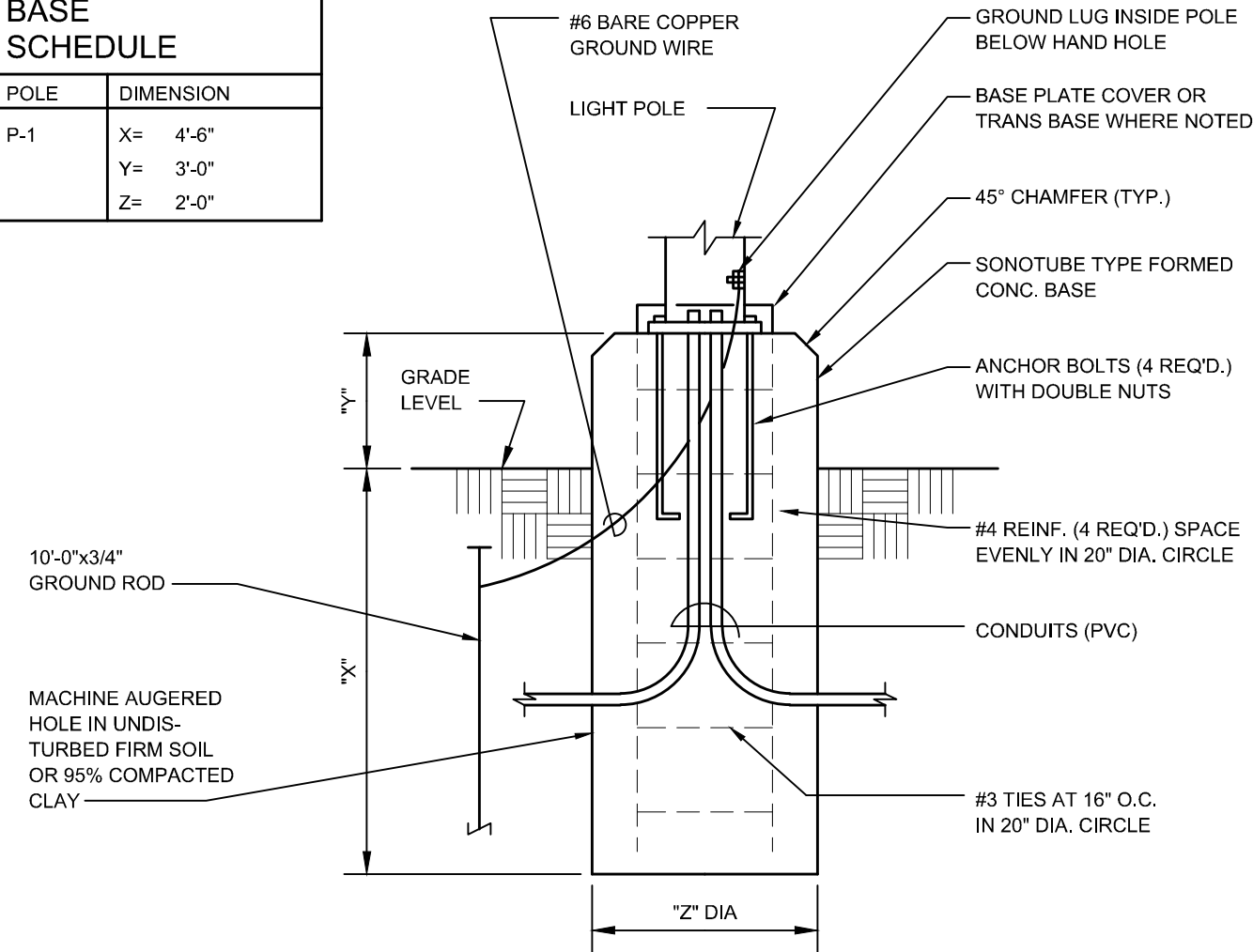
Sheet Title

Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number E4

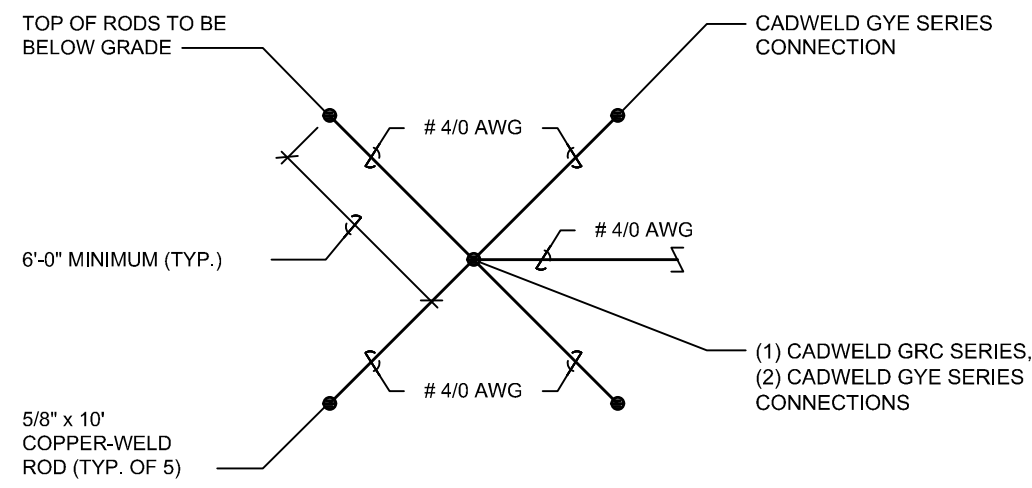


A TYPICAL DEVICE LAYOUT

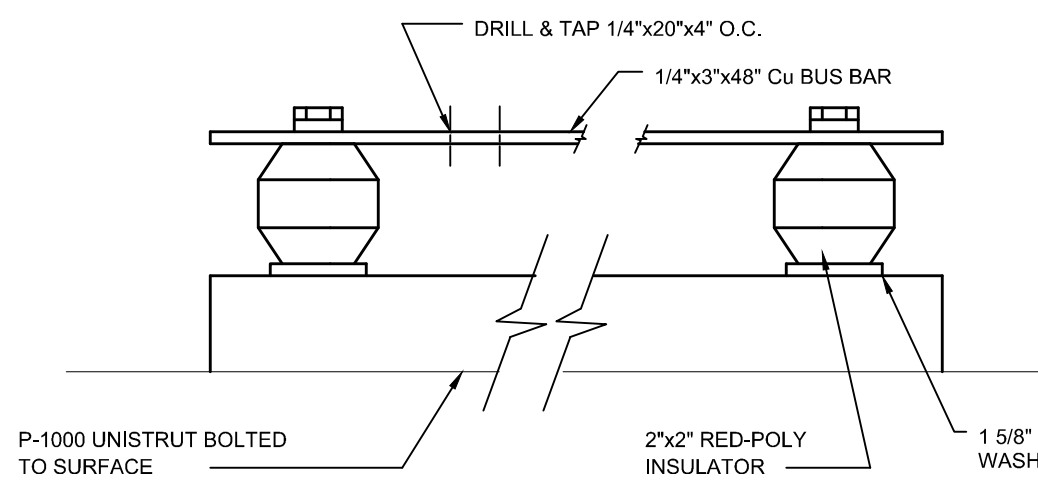
BASE SCHEDULE	
POLE	DIMENSION
P-1	X= 4'-6"
	Y= 3'-0"
	Z= 2'-0"



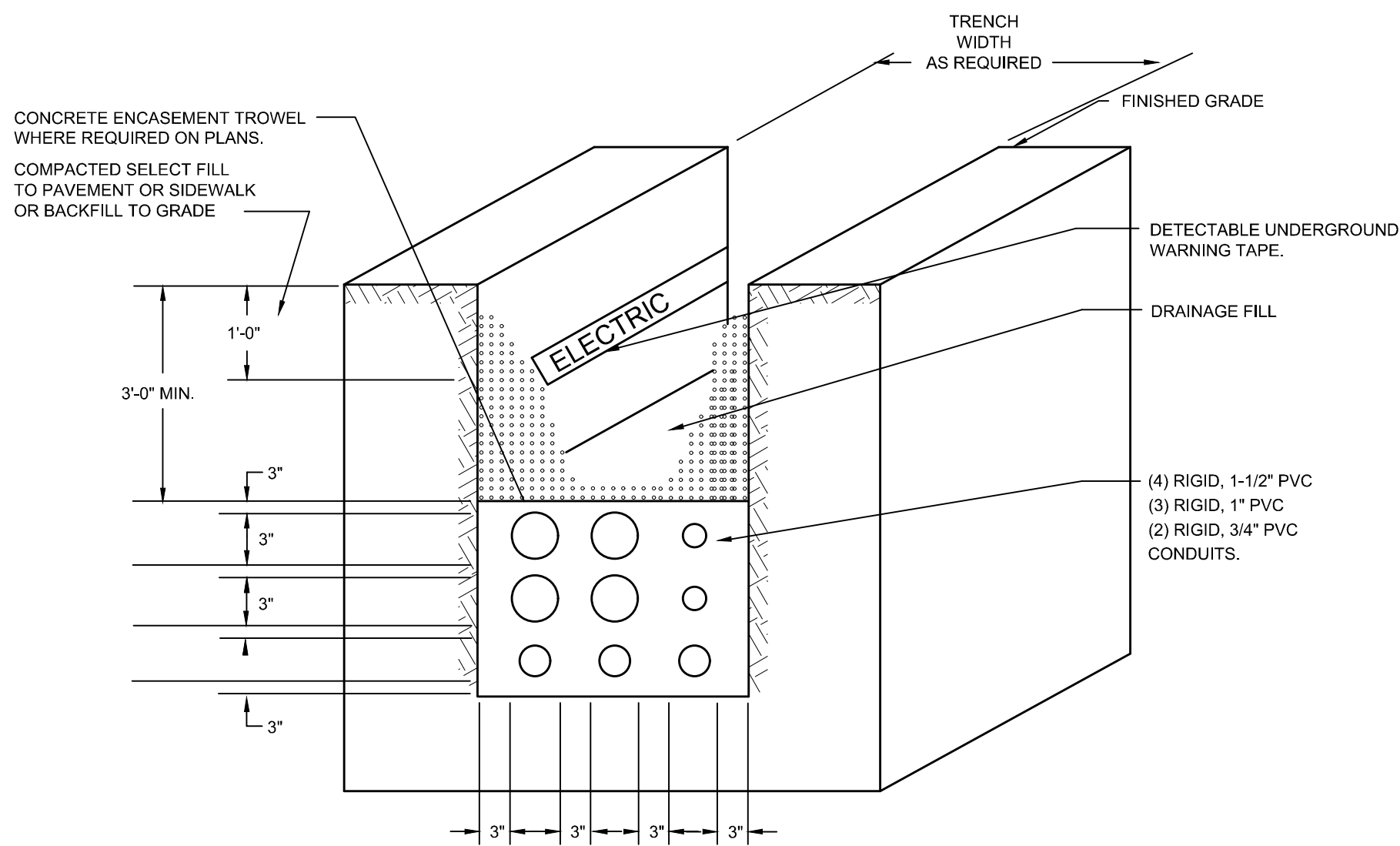
B LIGHT POLE BASE DETAIL



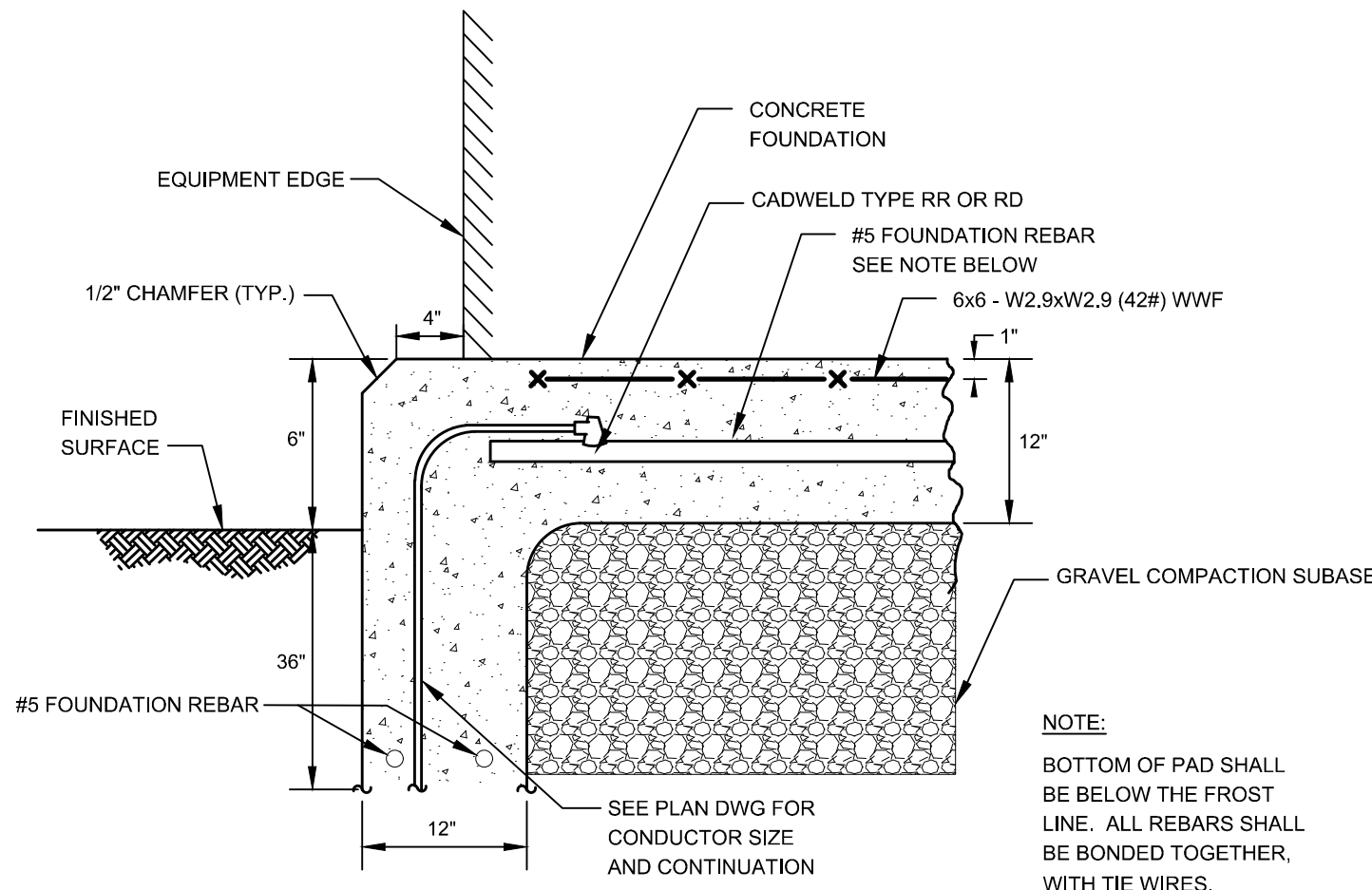
C GROUND ROD DETAIL



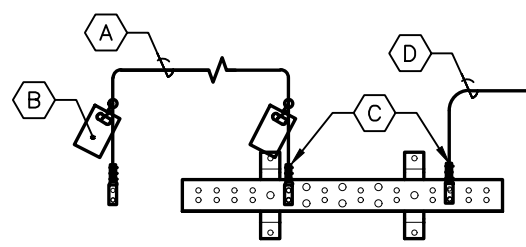
D SERVICE ENTRANCE & TELECOM GROUND BUS DETAIL



E ELECTRICAL DUCT BANK DETAIL-WEST



F GENERATOR PAD DETAIL

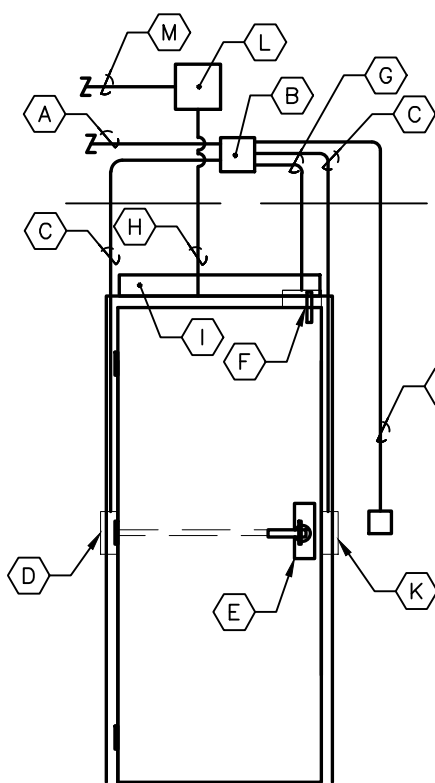


G TECHNOLOGY GROUNDING DETAIL
BY DIV. 26
SCALE: NTS

DETAIL NOTES:

- DIVISION 26 SHALL RE-TERMINATE ALL TELECOM GROUNDING BACKBONE CONNECTIONS WITH REQUIRED COMPRESSION TERMINALS WITH 2-HOLE PADS AND INSPECTION PORTS.
- TELECOM BUSBARS TO BE LISTED MINIMUM 2" X 12" X 1/4" TIN PLATED COPPER WITH ANSI/ITA-607 DRILL PATTERN.
- SYSTEMS GROUNDING BACKBONE CABLING AND BUSBAR KITS ARE BY DIVISION 26 PER ANSI/ITA-607-B STANDARD. PROTECT BCT AND TBB IN PVC CONDUIT AS PERMISSIBLE BY NEC.
- WHEN METALLIC CONDUIT IS PROVIDED 3' OR LONGER TO PROTECT BCT/TBB OR GE CONDUCTORS, THE CONDUCTORS MUST BE BONDED TO THE CONDUIT WITH LISTED INSULATED THROAT GROUND BUSHINGS AND A MINIMUM 6AWG COPPER CONDUCTOR AND A GAUGE MATCHING LISTED H-TAP OR C-TAP DEVICE.
- DIVISION 26 TO FIELD VERIFY ALL EXISTING CONDUCTOR SIZES PRIOR TO ORDERING COMPRESSION CONNECTORS.

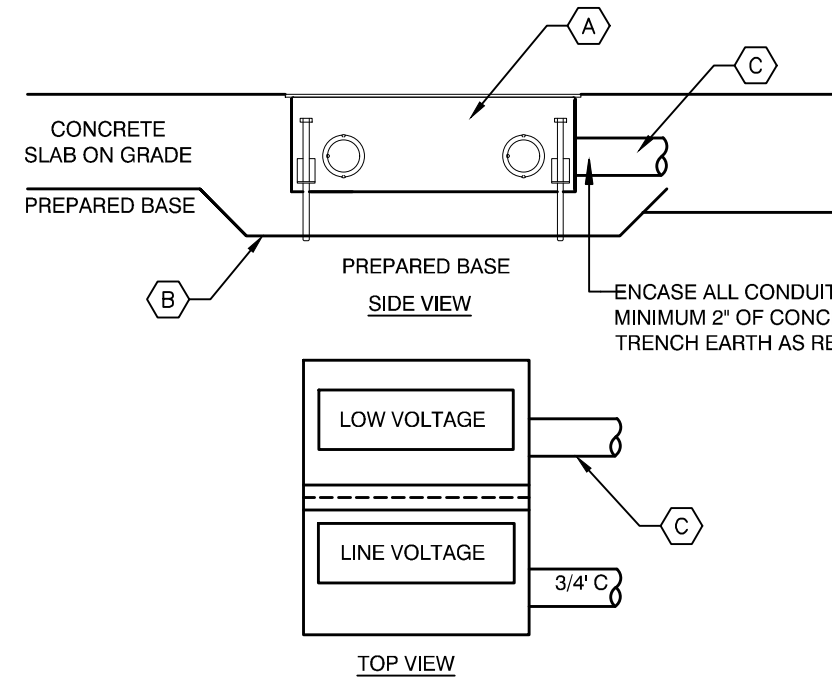
- NEW "BCT" TO ELECTRICAL SERVICE ENTRANCE GROUND BUS IN NON-METALLIC OR BONDED CONDUIT. TEST ENTIRE GROUNDING SYSTEM BACKBONE RESISTANCE.
- TYPICAL COMMUNICATIONS GROUNDING BACKBONE LABEL PANOUT #LTYK. PROVIDE AT ALL BACKBONE TERMINATIONS.
- TYPICAL 6 AWG COPPER 2-HOLE COMPRESSION TERMINAL WITH INSPECTION PORT.
- 6 AWG STRANDED COPPER TERC WITH GREEN JACKET BY ISP AND/ OR DIV 27.
- TYPICAL TGB BUSBAR KIT BY DIVISION 26 PER DIVISION 27 SPECIFICATIONS.



H ACCESS CONTROL DOOR TYPICAL PATHWAYS
BY DIV. 26
SCALE: NTS

DETAIL NOTES:

- COORDINATE PATHWAYS AND CABLES WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND ACCESS CONTROL CONTRACTOR.
- CENTRAL POWER SUPPLY MAY BE CENTRAL AT TELECOM ROOMS OR AT EACH DOOR BY SECURITY CONTRACT.
- LOCAL POWER SUPPLY FOR DOOR OPERATOR HARDWARE IS TYPICAL.
- COORDINATE FIRE ALARM INTERFACE WITH ARCHITECTURAL LIFE SAFETY PLANS, SECURITY AND FIRE ALARM CONTRACTORS.
- 1" CONDUIT STUD AND SECURITY LOW VOLTAGE CABLES TO ACCESS CONTROL PANEL AS REQUIRED.
- MINIMUM 6" LOW VOLTAGE SQUARE JUNCTION. LOW VOLTAGE JUNCTION WITH TERMINAL STRIP BY DOOR HARDWARE CONTRACT TO INTERCONNECT DOOR HARDWARE, AND SECURITY CONTRACTOR LV CABLES UNO.
- 3/4" BUSHED CONDUIT TO POWER TRANSFER BAR/ ELECTRIFIED HINGE FRAME POCKET OR DOOR STRIKE WHERE REQUIRED.
- POWER TRANSFER BAR OR ELECTRIFIED HINGE WHERE REQUIRED.
- DOOR HARDWARE WITH REQUEST TO EXIT DEVICE / KEYPAD (CRASH BAR/ MORTISE) WHERE REQUIRED.
- RECESSED DOOR POSITION SWITCH WITHIN 6" OF SLAB EDGE WHERE REQUIRED.
- 1/2" BUSHED CONDUIT TO DOOR POSITION SWITCH.
- 3/4" LOCAL POWER CONDUIT TO DOOR OPERATOR AS REQUIRED.
- POWERED DOOR OPERATOR WHERE REQUIRED.
- 3/4" BUSHED CONDUIT TO CROWSPP DEVICE BOX AND PLASTER RING. LOCATE CARD READER WITHIN 12" OF DOOR STRIKE UNLESS NOTED OTHERWISE. QTY. AS NOTED ON SHEETS.
- ELECTRIC STRIKE WHERE REQUIRED.
- LOCAL POWER SUPPLY WITH FIRE ALARM INTERFACE BY DOOR WITH 3/4" CONDUIT WHERE REQUIRED.
- LOCAL 120VAC WHERE REQUIRED.



I TYPICAL SLAB ON GRADE FLOOR BOX DETAIL
BY DIV. 26
SCALE: NTS

DETAIL NOTES:

- FLOOR BOX AND ALL ASSOCIATED CONDUIT PATHWAYS ARE BY DIVISION 26.
- ROUTE CONDUIT AS DIRECT AS POSSIBLE. NMT 180 DEGREES OF CONDUIT BEND BETWEEN END POINTS. PROVIDE 200# PULL STRING IN LV CONDUITS.
- PROVIDE DIVIDERS BETWEEN LINE VOLTAGE AND LOW VOLTAGE AS APPLICABLE.
- PROVIDE BLANK COVER PLATES FOR UNUSED DEVICE OPENINGS.
- ENCASE ALL CONDUITS AND BOX WITH MINIMUM 2" OF CONCRETE, TRENCH AND SUPPORT BOX AND CONDUITS AS REQUIRED.
- PROVIDE FSR FL-500P-4 FLOOR BOX ASSEMBLY AS INDICATED. INSTALL FLUSH WITH FINISH FLOOR. ADJUSTED FOR BOX COVER FLOOR FINISH DETAILS. PROVIDE TEMPORARY CONSTRUCTION COVER & PROVIDE ALSO U-ACCESS UL SCRUB WATER RATED FINISH COVER TO FINAL FLOOR INSTALLATION. COORDINATE COVER FINISH WITH ARCHITECT PRIOR TO ORDER. INSTALL PER MANUFACTURERS PUBLISHED INSTRUCTIONS.
- PROVIDE FSR #FLGRD4 POUR PAN AS RECOMMENDED BY MANUFACTURER. PROVIDE MINIMUM 2" CONCRETE BETWEEN BOX BASE AND PREPARED BASE.
- PROVIDE MINIMUM 1-1/4" PVC BUSHED CONDUITS OR AS NOTED. DO NOT CONNECT LV CONDUITS IN SERIES BETWEEN FLOOR BOXES UNO.



HAWA PROJ. NO. 21082	
DESIGNED BY	J.J. WINSLOW
DRAWN BY	JAI
CHECKED BY	BRS

Issue/Revision	No.	Date
BID/PERMIT		08/15/2025



08/13/2025

RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065

MANUFACTURER'S MODEL NUMBER BASED ON TRANE UNLESS OTHERWISE NOTED.

FAN SCHEDULE																						
MANUFACTURERS MODEL NUMBER BASED ON GREENHECK UNLESS OTHERWISE NOTED.																						
KEY: CENT-CENTRIFUGAL; PROP-PROPELLER; F C-FORWARD CURVED; B.L-BACKWARD INCLINE;																						
A.F.-AIR FOIL; A.T.L.-ACROSS THE LINE; VFD-VARIABLE FREQUENCY DRIVE																						
FAN NO.	LOCATION	FUNCTION	MFR. MODEL NUMBER	FAN TYPE	WHEEL TYPE & SIZE	CFM	TOTAL S.P. W/G	R.P.M.	TIP SPEED F.P.M.	OUTLET VELOCITY F.P.M.	MAX. SOUND RATING (SONES)	MOTOR H.P.	BHP REQD	VOLT		TYPE MOTOR STARTING	DAMPERS				DRIVE	REMARKS
														PHASE	PHASE		GRANITY	NOTION	ADJUST	DIRECT		
EF-1	RESTROOM	EXHAUST	SP-A90-130-VG	CENT	B.L. 5.5'	100	0.5	960	1,382	559	3.2	-	-	120	1	ATL	X			X		12 WATTS

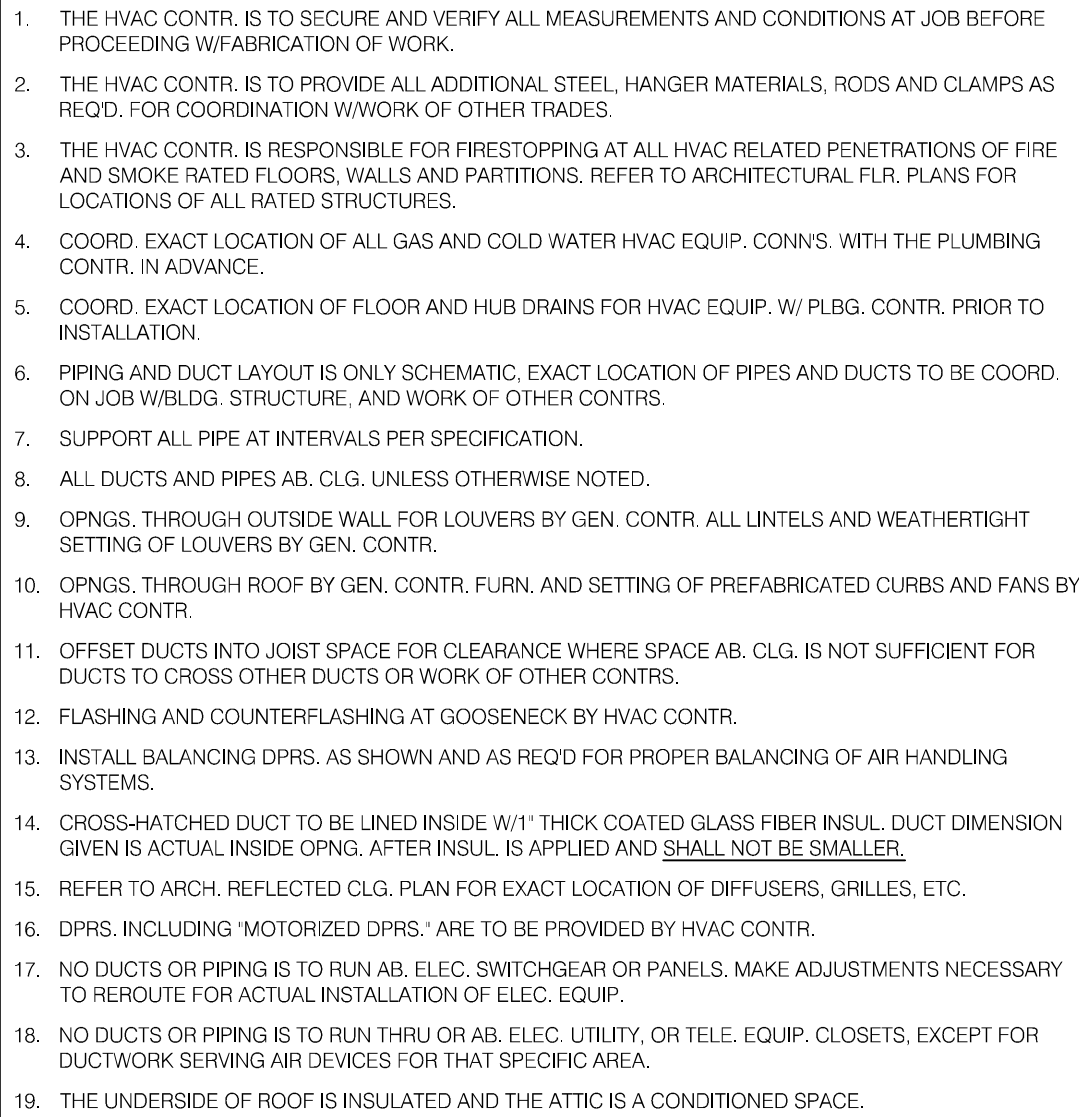
MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED.

CONTROL ROOM AIR CONDITIONING UNIT (CU-2 / AC-2 & CU-3 / AC-3)

CARRIER DUCTLESS SPLIT HEAT PUMP WITH BASEPAN HEATER, OUTDOOR MODEL #37MAHAQ24AA3, INDOOR MODEL #45MAHAQ24XA3, R-454B REFRIGERANT, 24.0 MBH COOLING, 29.0 MBH HEATING, 21.2 SEER2, 13 EER2, 9.8 HSPF2, ACCESSORY CONDENSATE PUMP, LOW AMBIENT CONTROL TO 0° F, THERMOSTAT INTERFACE, WALL MOUNTING BRACKET INSTALLED PER MANUFACTURER RECOMMENDATIONS 208-230V/ 1 PHASE, 24.9 MCA, 25 MOPA



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



1. ROUTE Ø8" EXHAUST DUCT TO SLOPED ROOF CAP. ELECTRICAL CONTRACTOR TO PROVIDE POWER FROM LOCAL SWITCH.
2. ROUTE 3" COMBUSTION AIR AND FLUE VENT UP TO ROOF CONCENTRIC VENT, SUPPLIED BY FURNACE MANUFACTURER.
3. PROVIDE UNIT HEATER IN ATTIC SPACE FOR PLUMBING WATER PIPING FREEZE PROTECTION.
4. PROVIDE INTAKE LOUVER WITH BIRD SCREEN. GREENECK MODEL ESD-435-14x10" OR EQUAL.
5. PROVIDE CONDENSING UNIT ON WALL MOUNTING BRACKET 3FT ABOVE GRADE. EXTEND REFRIGERANT PIPE TO INDOR UNIT PER MANUFACTURER RECOMMENDATIONS. PROVIDE PIPE SLEEVES AT EXTERIOR WALL PENETRATIONS.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PIPE FLANGES		GAS COCK OR BALANCE VALVE
	PIPE UNION		BALL VALVE
	PENDANT TYPE SPRINKLER HEAD		GATE VALVE (SCREWED BODY)
	UPRIGHT TYPE SPRINKLER HEAD		COMB. BALANCE & STOP VALVE
	P-TRAP (PLAN VIEW)		CHECK VALVE
	HOSE BIBB		SPIN-IN FITTING W/ BALANCE DAMPER
	45° BOOT BRANCH TAKEOFF		SUPPLY DUCT UP
	THERMOSTAT		SUPPLY DUCT DOWN
	CONNECT TO EXISTING		R.A., O.A., OR EXH. DUCT UP
	POINT OF DISCONNECT		R.A., O.A., OR EXH. DUCT DOWN
	THRU FLOOR AS SHOWN JANITOR OR SHOWER FAUCET/ HEAD		ELBOW WITH TURNING VANES
	LOCATION		MANUAL DAMPER
	FLOOR OR AREA DRAIN		Y-TYPE STRAINER

_____ CW _____	DOMESTIC COLD WATER LINE
_____ HW _____	DOMESTIC HOT WATER LINE
_____ D _____	DRAIN LINE
_____ G _____	GAS LINE NATURAL
_____ LQ _____	LIQUID LINE
_____ SUCT _____	REFRIGERANT SUCTION
_____ SAN _____	SANITARY LINE
_____ V _____	VENT LINE

ABOVE	HTG.	HEATING
ACCESS DOOR	H & A/C	HEATING AND AIR-CONDITIONING
ABOVE FINISHED FLOOR	H & C	HEATING AND COOLING
APPROX.	H & V	HEATING AND VENTILATING
ARCH.	H.V.	HIGH VELOCITY
AUTO. CONT.	IND. U.	INDUCTION UNIT
BSSD. RAD.	MAN. DPR.	MANUAL DAMPER
BTM.	MFR.	MANUFACTURER
BLDG.	MECH.	MECHANICAL
CAB.	M. A.	MIXED AIR
CAP.	MTD.	MOUNTED
CL.G.	NOM.	NOMINAL
CONC.	OPNG.	OPENING
CONN.	O.A.	OUTSIDE AIR
CONTR.	PLBG.	PLUMBING
CONT.	PRESS.	PRESSURE
CONV.	P.R.V.	PRESSURE REDUCING VALVE
COORD.	PROP.	PROPELLER
DTL.	RAD.	RADIATOR
DIA.	REFG.	REFRIGERATION
DIFF.	REG.	REGISTER
DISCH.	RHC.	REHEAT COIL
DN.	REQD.	REQUIRED
ELEC.	REL.	RELIEF
ELEM.	R.A.	RETURN AIR
ELEV.	RM.	ROOM
EXH.	SCHED.	SCHEDULE
EXIST.	SHI.MTL.	SHEET METAL
FT. HD.	SQ.	SQUARE
FIN. RAD.	STAT.	THERMOSTAT
F. DPR.	S.A.	SUPPLY AIR
FLEX.	S & R	SUPPLY AND RETURN
F & T	TEMP.	TEMPERATURE
FLR.	THERM.	THERMOMETER
F.D.	TYP.	TYPICAL
FURN.	T.C.C.	TEMP CONTROL CONTRACTOR
GA.	U.H.	UNIT HEATER
GEN.	U.V.	UNIT VENTILATOR
GRAV.	VIB. ISOL.	VIBRATION ISOLATOR
GR.	WW	WALL TO WALL
HTR.	W/	WITH

The diagram illustrates a square ceiling supply air diffuser. It is a square with a side length of 24 inches, indicated by a dimension line and the text "24\"/>

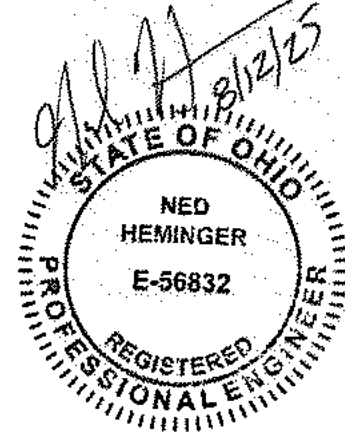


- Architecture 3700 Park 42 Drive
- Engineering Suite 190B
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- Surveying www.mspsdesign.com

Project Manager	DCC
Drawn By	CSW
DWG	
X-Ref(s)	NONE

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RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065

Sheet Title
**HVAC FLOOR PLAN,
NOTES, &
SCHEDULES**

Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number **H1**
File Number

[illegible]

A circular professional engineer seal for the State of Ohio. The outer ring contains the text "STATE OF OHIO" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The inner circle contains the name "NED HEMINGER", the license number "E-56832", and the title "REGISTERED". Handwritten in black ink over the top of the seal is "01/11" and "8/12/25".

Sheet Title

**PLUMBING FLOOR
PLAN, NOTES, &
SCHEDULE**

Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number **P1**
File Number

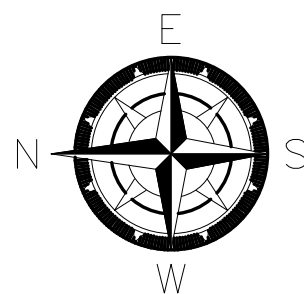
1. ALL PIPING SHOWN IN AB. CLOS. IN AREAS WITH DROPPED CLOS., OR AT BTM. OF SUPPORT STRUCT. FOR FLR. OR ROOF AB. IN EXPOSED STRUCT. AREAS, UNLESS NOTED OTHERWISE.
2. THE PLBG. CONTR. IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING W/FABRICATION OF WORK.
3. THE PLBG. CONTR. IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQ'D. FOR COORDINATION W/WORK OF OTHER TRADES.
4. THE PLBG. CONTR. IS RESPONSIBLE FOR PREHEATING AT ALL PLBG. RELATED PENETRATIONS OF FIRE AND SMOKE RATED FLOORS, WALLS AND PARTITIONS. REFER TO ARCHITECTURAL FLR. PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
5. PIPING LAYOUT IS ONLY SCHEMATIC, EXACT LOCATION OF PIPES TO BE COORD. WITH BLDG. STRUCTURE AND WORK OF OTHER CONTRS.
6. CONCEAL PIPING WHENEVER POSSIBLE UNLESS NOTED OTHERWISE.
7. COORD. EXACT LOCATION OF ALL GAS AND COLD WATER HVAC EQUIP. CONNS. WITH THE HVAC CONTR. IN ADVANCE.
8. COORD. EXACT LOCATION OF FLOOR AND HUB DRAINS FOR HVAC EQUIP. W/ HVAC CONTR. PRIOR TO INSTALLATION.
9. RUN ALL WATER AND GAS LINES LEVEL.
10. ROUGH IN ALL PIPING THRU FACE OF WALL WHERE POSSIBLE, EXCEPT IN OUTSIDE WALLS. TERMINATE W/ SHORT NIPPLE AND CAP.
11. WORK SHALL BE INSTALLED IN ACCORDANCE W/ THE STATE OF OHIO PLUMBING CODE.
12. PROVIDE CLEANOUTS AT NOT MORE THAN 100 FT. APART IN HORIZONTAL SANITARY DRAINAGE LINES.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION GREATER THAN 45° IN THE BLDG. DRAIN (SAN. PIPING BELOW FLR. SLAB).
14. INSTALL TEST CLEANOUTS AT CONNS. TO EXIST. SAN. SYSTEMS.
15. ALL FIXTURES TO BE EQUIPPED. WITH STOP VALVES IN ACCESSIBLE LOCATION.
16. INSTALL ALL EXTERIOR HOSE BIBBS APPROX. 20' AB. GRADE.
17. UNLESS OTHERWISE SHOWN ON DWGS, THIS CONTR. SHALL BE RESPONSIBLE FOR SIZING DOMESTIC WATER PIPING IN CHASES, ETC. TO INDIVIDUAL FIXTURES, WHEN PIPING SERVES FLUSH VALVES, COLD WATER PIPE SHALL EXCEED 1/2" SIZE TO END OF PIPE CHASE RUN AND A SHOCK ABSORBER INSTALLED, WHEN COLD WATER PIPE IS 2" OR AB. AND SERVES FLUSH VALVES, PIPE MAIN IN CHASE CAN ONLY BE REDUCED TO 1 1/2" SIZE, 1/2" HOT WATER PIPE SHALL SERVE UP TO FOUR (4) LAYS, OTHER PIPE SIZING CRITERIA SHALL AS BE OUTLINED IN THE LATEST EDITION OF THE "ASHRAE FUNDAMENTALS HANDBOOK".
18. VERIFY THE EXACT LOCATION OF ALL DRAINS WITH THE ARCH. AND STRUCTURAL DWGS. FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND CODE. W/SUPPORT STRUCT. COORD. INSTALLATION W/ THE APPROPRIATE CONTR.
19. UNLESS INDICATED OTHERWISE, BUILDING DRAIN (STORM, SANITARY, ETC.) CONN. ARE PROVIDED AT 5' INTERVALS AND END OF EXTERIOR STRUCTURE. COORDINATE LOCATION (INCLUDING INVERT ELEVATION) WITH THE SITE UTILITY CONTRACTOR.
20. UNLESS INDICATED OTHERWISE, BUILDING DOMESTIC(F) WATER SERVICE CONNECTIONS ARE PROVIDED AT 12" ABOVE FLOOR. COORDINATE LOCATION(S) WITH THE SITE UTILITY CONTRACTOR.
21. VERIFY EXACT LOCATIONS, SIZES AND UTILITY CONNS. OF OWNER FURN'D. EQUIP. FOR PROPER PLACEMENT OF DRAINS AND UTILITY SERVICE CONNS.
22. NO LIQUID TRANSMISSION PLBG. UTILITY PIPING IS TO RUN AB. ELEC. SWITCHGEAR OR PANELS, MAKE ADJUSTMENTS NECESSARY TO ROUTE PIPING FOR ACTUAL INSTALLATION OF ELEC. EQUIP.
23. NO LIQUID TRANSMISSION PLBG. UTILITY PIPING IS TO RUN THRU OR AB. ELEC. UTILITY TELE. EQUIP. OR ELEC. EQUIP. PRIOR AT THE NEXT NOMINAL SIZE LARGER, UNDER NO CIRCUMSTANCES SHOULD SIZES BE REDUCED FROM THOSE INDICATED ON DWGS.
24. ALL FLOOR DRAINS LOCATED IN REST ROOMS THAT ARE DIRECTLY CONNECTED TO THE SANITARY WASTE SYSTEM SHALL BE SUPPLIED WITH A TRAP PRIMER LINE FROM THE NEAREST WATER COLD FLUSH VALVE, UNLESS INDICATED OTHERWISE ON THE DWGS.
25. SANITARY AND VENT SIZES INDICATED ON DRAWINGS ARE MINIMUM NOMINAL PIPE SIZE, IF PIPING MATERIAL IS NOT READILY AVAILABLE IN SIZES INDICATED, THE CONTRACTOR MAY, AT THEIR OPTION, INCREASE PIPE AT THE NEXT NOMINAL SIZE LARGER, UNDER NO CIRCUMSTANCES SHOULD SIZES BE REDUCED FROM THOSE INDICATED ON DWGS.
26. THE UNDERSIDE OF THE ROOF IS INSULATED AND THE ATTIC IS A CONDITIONED SPACE.
27. ONLY SANITARY PIPING IS ALLOWED BELOW SLAB WITHIN THE BUILDING, ALL OTHER PIPING SHALL BE ROUTED IN THE ATTIC.

1. EXTEND SANITARY LINE MAIN. REFER TO SITE PLAN FOR CONTINUATION.
2. PROVIDE 4" GATE TYPE BACKWATER VALVE. SIMILAR TO ZURN MODEL Z-1088. PROVIDE WITH EXTENSION SO THAT VALVE MAY BE OPERATED FROM FLOOR.
3. NATURAL GAS METER BY GAS COMPANY. GAS PRESSURE DELIVERED BY GAS COMPANY IS 2 PSI. REGULATE DOWNSTREAM GAS PRESSURE TO 11" W.G.
4. PROVIDE WATER METER AND BACKFLOW ASSEMBLY PER WATER DEPARTMENT REQUIREMENTS.
5. EXTEND COLD WATER PIPE DOWN WALL TO PLUMBING FIXTURES. EXTEND 1" TO WC-1, 1/2" TO S-1, 1/2" TO LAV-1, 1/4" TO WATER SUPPLY BOX, AND 1/2" TO SH-1.
6. EXTEND HOT WATER PIPE DOWN WALL TO PLUMBING FIXTURES. EXTEND 1/2" TO S-1, 1/2" TO LAV-1, AND 1/2" TO SH-1.
7. PROVIDE COLD WATER SUPPLY BOX FOR REFRIGERATOR SUPPLY (OATEY 12K OR EQUIV.), CONNECT TO OWNER FURNISHED WATER FILTER.
8. COLD WATER PIPING IN ATTIC TO BE HEAT TRACED. HEAT TRACING FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO INSULATING PIPING.
9. ROUTE 3 COMBUSTION AIR AND FLUE VENT UP TO ROOF CONCENTRIC VENT, SUPPLIED BY WATER HEATER MANUFACTURER.
10. PROVIDE 1" COLD WATER DOWNSTREAM OF BACKFLOW PREVENTER INSIDE MECHANICAL ROOM. PROVIDE WITH SHUT-OFF VALVE AND CHECK VALVE PRIOR TO ROUTING UNDERGROUND. REFER TO SITE UTILITY PLAN FOR CONTINUATION TO YARD HYDRANT (BY OTHERS).

AB.	ABOVE	H.B.	HOSE BIBB
A.F.F.	ABOVE FINISHED FLOOR	HTR.	HEATER
APPROX.	APPROXIMATELY	HTG.	HEATING
BDM.	BOTTOM	INV. ELEV.	INVERT ELEVATION
BLDG.	BUILDING	INT.	INTERIOR
B.T.	BATH TUB	J.R.	JANITORS RECEPTOR
C.B.	CATCH BASIN	LAV.	LAVATORY
C.D.	CANOPY DRAIN	M.H.	MANHOLE
CHEM.	CHEMICAL	MFR.	MANUFACTURER
C.I.	CAST IRON	MECH.	MECHANICAL
CLG.	CEILING	PLBG.	PLUMBING
CONC.	CONCRETE	PRESS.	PRESSURE
C.O.	CLEAN OUT	REQD.	REQUIRED
CONN.	CONNECT	R.D.	ROOF DRAIN
CONTR.	CONTRACTOR	RM.	ROOM
DTL.	DETAIL	S.D.	SHOWER DRAIN
DIA.	DIAMETER	SH.	SHOWER
D.F.	DRINKING FOUNTAIN	S.I.	SURFACE INLET
D.N.	DOWN	S.S.	SERVICE SINK
D.S.	DOWNSPOUT	THERM.	THERMOMETER
ELEC.	ELECTRICAL	T.P.	TRAP PRIMER
E.W.C.	ELECTRIC WATER COOLER	TYP.	TYPICAL
EXIST.	EXISTING	UR.	URINAL
EXT.	EXTERIOR	VAC.	VACUUM
FT. HD.	FEET OF HEAD	V.S.P.	VITRIFIED SEWER PIPE
FLR.	FLOOR	V.T.R.	VENT THRU ROOF
F.D.	FLOOR DRAIN	W.	WASTE
FURN.	FURNISH	W/	WITH
F.V.	FLUSH VALVE	WC	WATER CLOSET
GEN.	GENERAL	W.C.O.	WALL CLEAN OUT

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LAB OUTLET		DRAIN VALVE WITH CAPPED HOSE END
	P-TRAP (PLAN VIEW)		GLOBE VALVE
	CAPPED LINE		GATE VALVE (FLANGED BODY)
	RISE OR DROP		
	HOSE BIBB		SOLENOID VALVE
	PIPE BRANCH TOP CONNECTION		CHECK VALVE
	PIPE BRANCH BOTTOM CONNECTION		GAS COCK OR BALANCE VALVE
	PIPE FLANGES		BUTTERFLY VALVE
	PIPE UNION		FLOOR OR AREA DRAIN
	Y-TYPE STRAINER		THERMOMETER
	PETE'S PLUG		CURB BOX AND VALVE
	COMB. BALANCE AND STOP VALVE		CONNECT TO EXISTING
	BALL VALVE		THRU FLOOR AS SHOWN
	GATE VALVE (SCREWED BODY)		DISCONNECT FROM EXISTING
	JANITOR OR SHOWER FAUCET/HEAD LOCATION		
	CW		DOMESTIC COLD WATER LINE
	HW		DOMESTIC HOT WATER LINE
	G		GAS LINE NATURAL
	SAN		SANITARY LINE BELOW SLAB

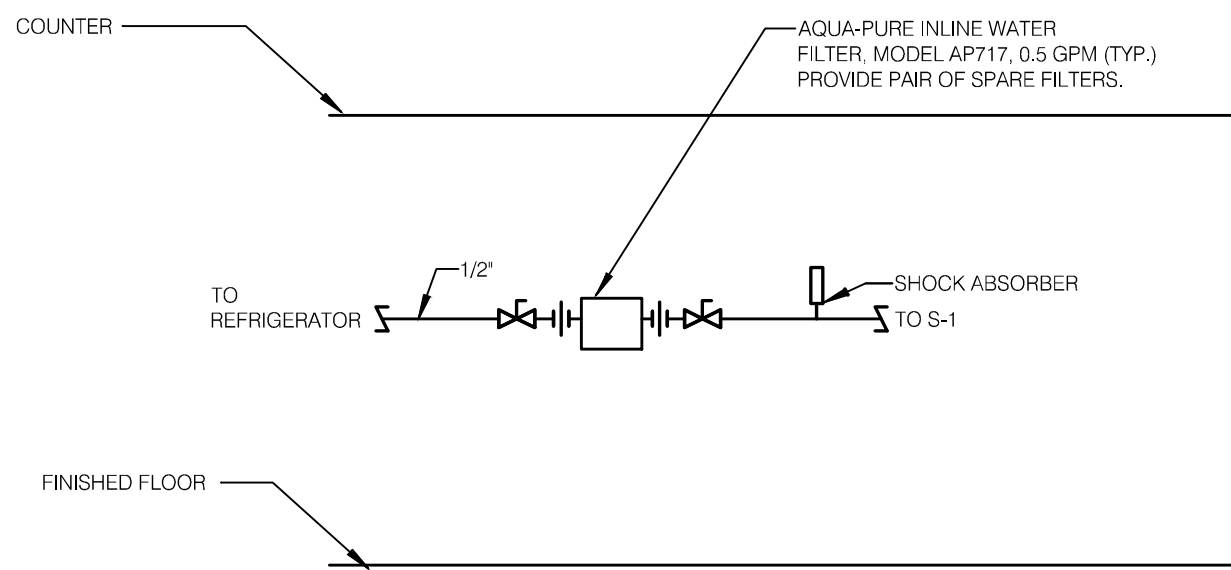
HEATER NO.	LOCATION	MFRG MODEL NUMBER	STORAGE CAPACITY GALLONS	TYPE OF GAS	INPUT RATING BTU/HR	RECOVERY RATE AT 100 °F T.R.
WH-1	MECH. ROOM	BTH-120	60	NATURAL	120,000	138 GAL/HR



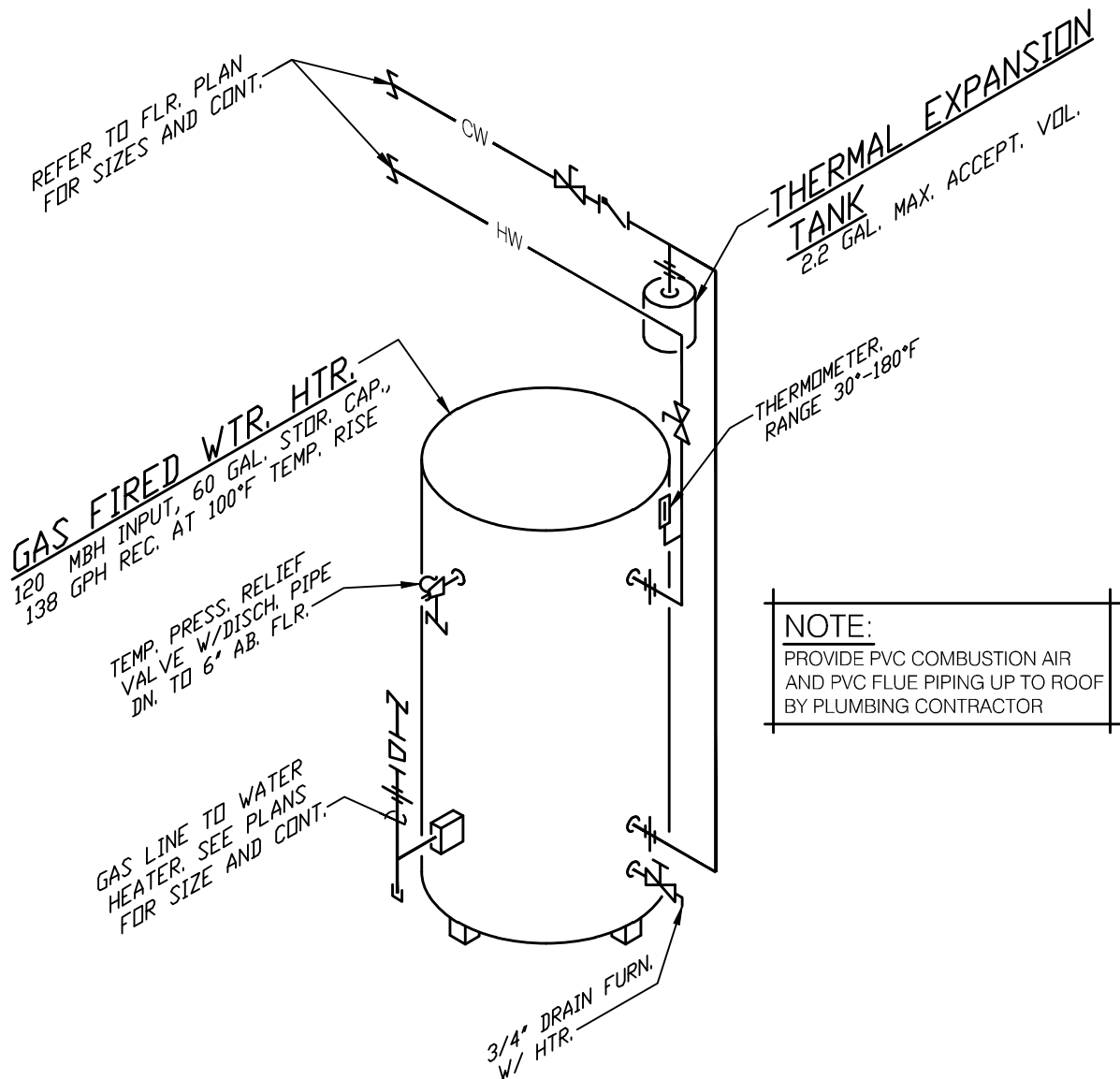
HAWA Incorporated
980 OLD HENDERSON ROAD
COLUMBUS, OHIO 43220
614-451-1711

4055 EXECUTIVE PARK DRIVE
SUITE 420, CINCINNATI, OH
513-771-6640

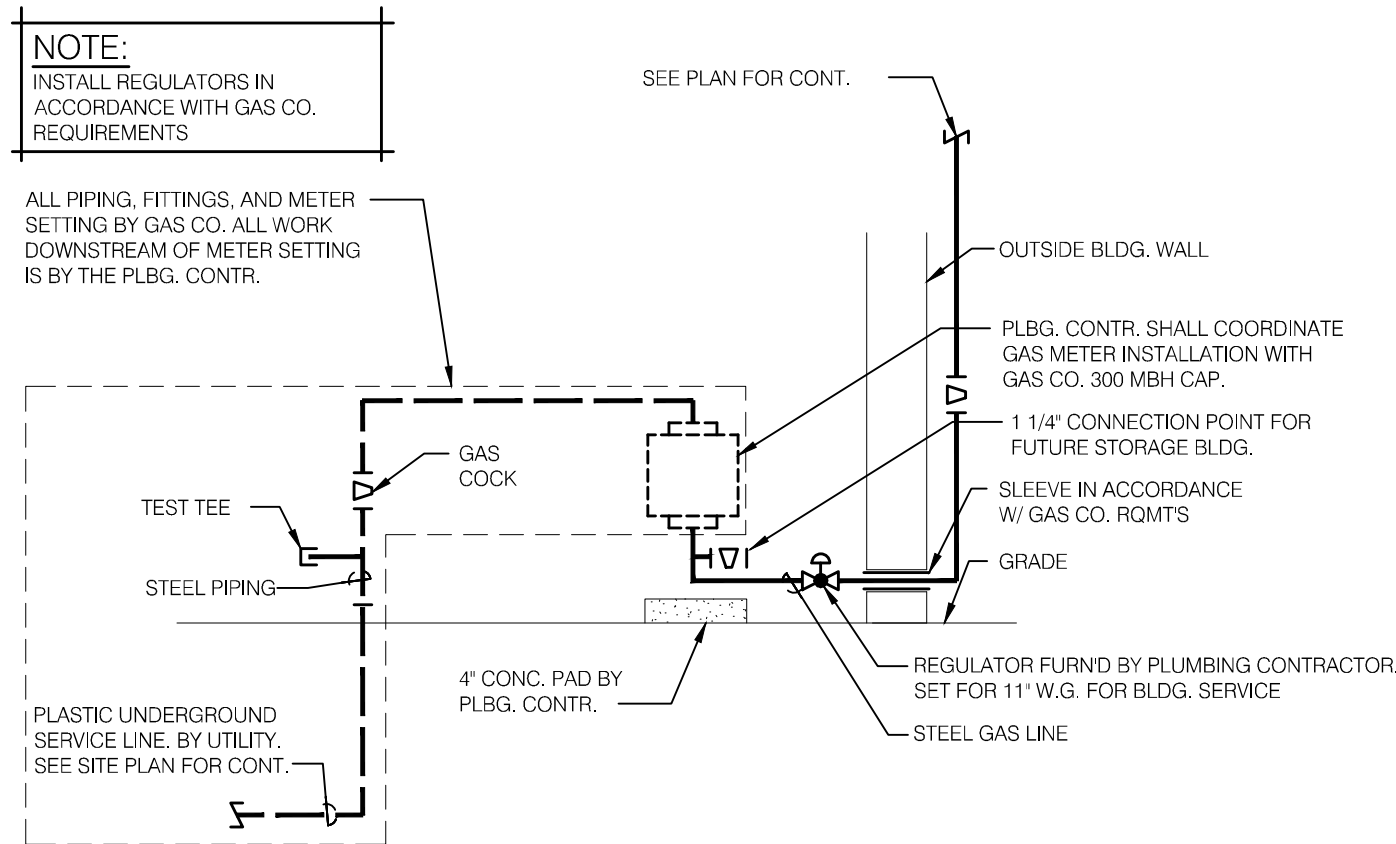
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APS
DRAWN BY
EMW
CHECKED BY
NBH



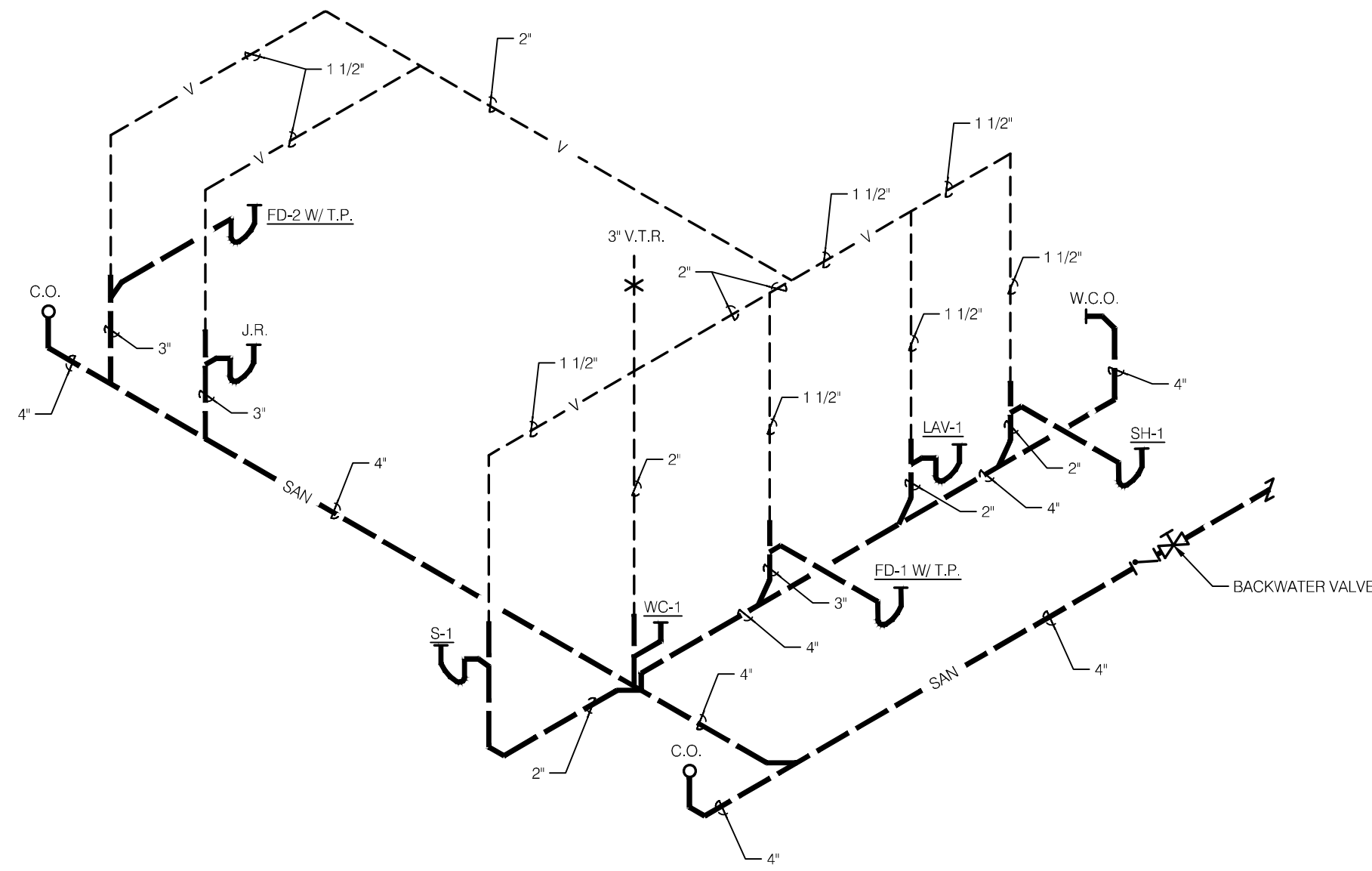
UNDERCOUNTER PIPING DETAIL
NO SCALE



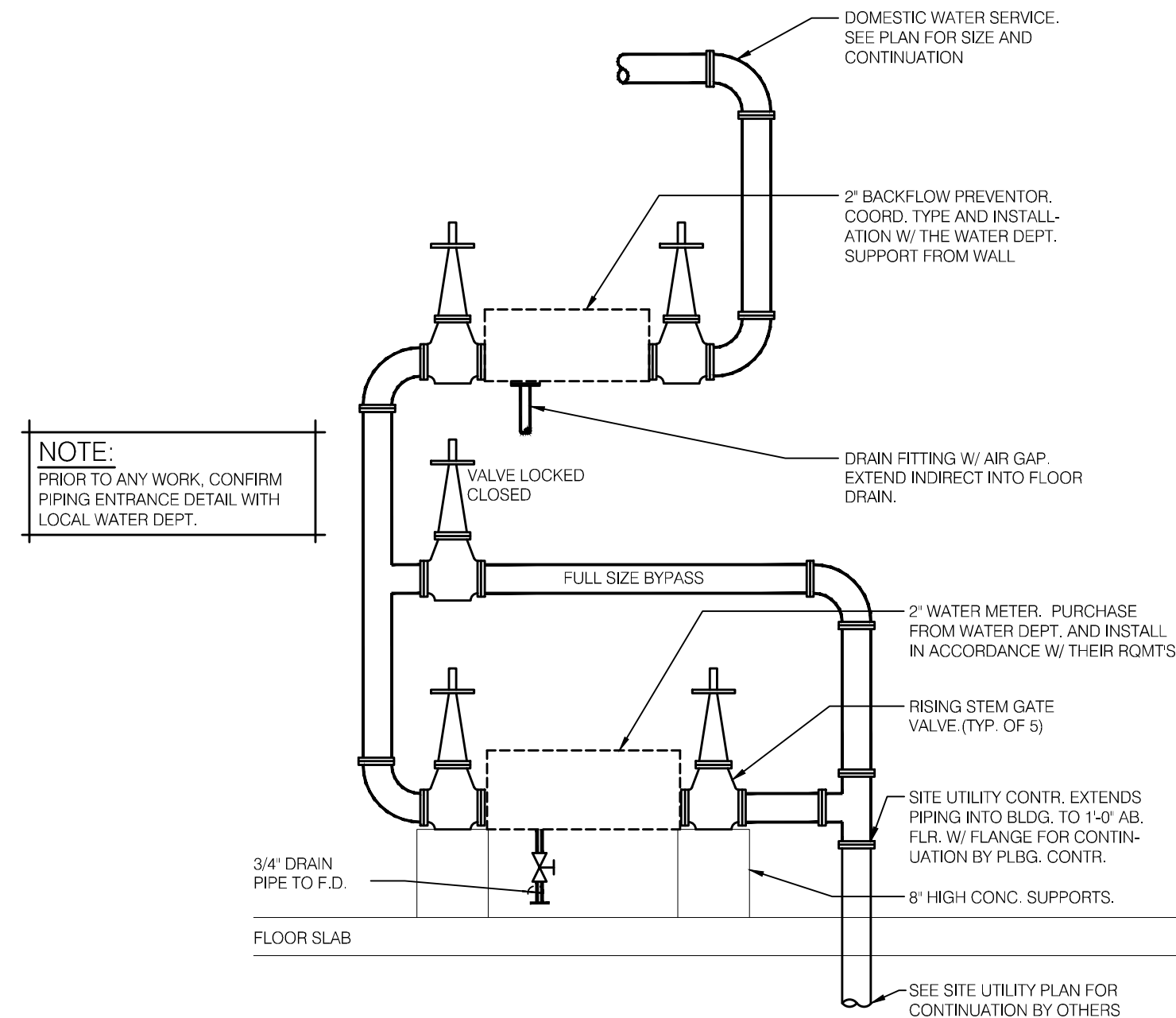
WATER HEATER DIAGRAM
NO SCALE



GAS METER & REGULATOR DIAGRAM
NO SCALE



STACK A
NO SCALE

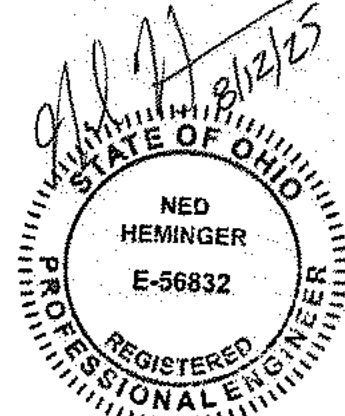


DOMESTIC WATER SERVICE ENTRANCE DETAIL
NO SCALE

Project Manager DCC
Drawn By CSW
DWG
X-Ref(s) NONE

Issue/Revision	No.	Date
BID/PERMIT		08/15/2025

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RIVER CORRIDOR
PUBLIC SANITARY SEWER EXTENSION
FOR
CITY OF SOUTH LEBANON
397 MAIN STREET, SOUTH LEBANON OHIO 45065

Sheet Title
PLUMBING STACK & DETAILS
Project Number 06308.12
Drawing Scale AS NOTED
Sheet Number P2
File Number

HAWA
engineers

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EMW

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