



FILENAME: CUMBERLAND-D0262	
SHEET NUMBER: 2	DRAWING NUMBER: S1



	EXISTING 10' CONTOUR (SEE REFERENCE 1)
	EXISTING 2' CONTOUR (SEE REFERENCE 1)
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPERTY LINE (SEE REFERENCE 2)
	STREAM (APPROXIMATE)
	APPROXIMATE EXISTING WASTE LIMITS
	LIMIT OF FUTURE WASTE PLACEMENT
	LIMITS OF DISTURBANCE
	EXISTING WATER SERVICE (SEE REFERENCE 11)
	EXISTING SANITARY SERVICE (SEE REFERENCE 11)
	EXISTING SEWER LINE
	EXISTING LEACHATE LINE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER
	PROPOSED LEACHATE FORCE MAIN
	PROPOSED FIRE HYDRANT
	FLOOD ZONE AE (SEE REFERENCE 9)
	WETLANDS (SEE REFERENCE 8)
	TRAFFIC FLOW DIRECTION



SMITH+
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ENGINEERS

A circular professional engineer seal for the State of North Carolina. The seal contains the text: "NORTH CAROLINA" at the top, "Professional Engineer" in the center, "Stacey A. Smith" in the middle, "33969" below the name, and "ENGINEER" at the bottom. To the right of the seal, the expiration date "12/31/2024" is printed.

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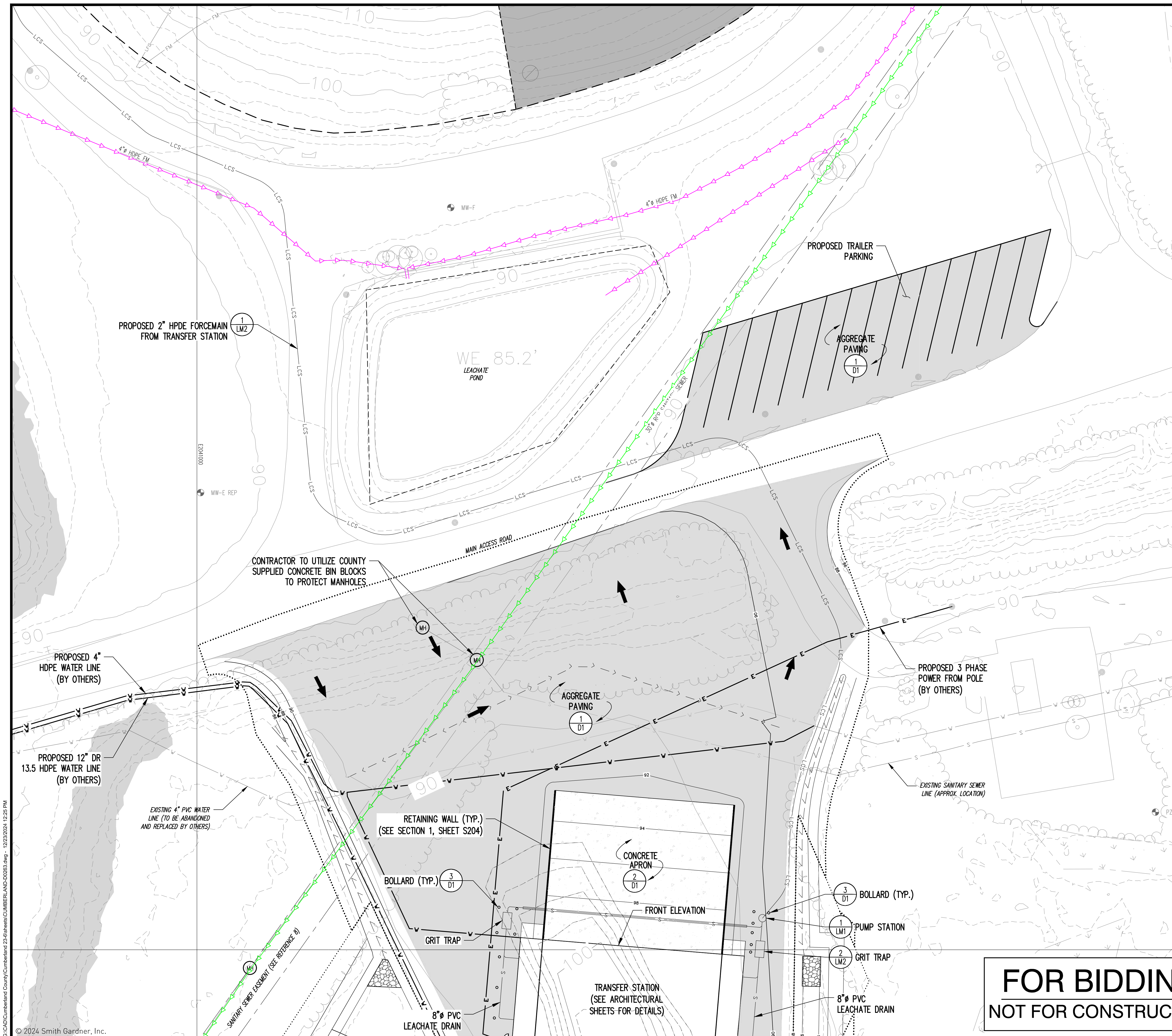
**ANN STREET LANDFILL
SOLID WASTE TRANSFER STATION
TRANSFER STATION**

OVERALL SITE PLAN

DESIGNED: S.A.S.	PROJECT NO: CUMBERLAND 22-1
DRAWN: R.V.M.	SCALE: AS SHOWN
APPROVED:	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0263	
SHEET NUMBER: 3	DRAWING NUMBER: S2

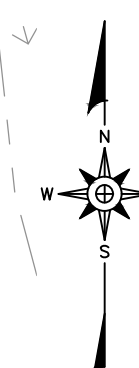


DESIGNED: S.A.S.	PROJECT NO: CUMBERLAND 22-1
DRAWN: R.V.M.	SCALE: AS SHOWN
APPROVED:	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0263	
SHEET NUMBER: 4	DRAWING NUMBER: S3



FOR BIDDING
NOT FOR CONSTRUCTION

	EXISTING 10' CONTOUR (SEE REFERENCE 1)
	EXISTING 2' CONTOUR (SEE REFERENCE 1)
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPERTY LINE (SEE REFERENCE 2)
	STREAM (APPROXIMATE)
	APPROXIMATE EXISTING WASTE LIMITS
	LIMIT OF FUTURE WASTE PLACEMENT
	LIMITS OF DISTURBANCE
	EXISTING WATER SERVICE (SEE REFERENCE 11)
	EXISTING SANITARY SERVICE (SEE REFERENCE 11)
	EXISTING SEWER LINE
	EXISTING LEACHATE LINE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER
	PROPOSED LEACHATE FORCE MAIN
	PROPOSED FIRE HYDRANT
	FLOOD ZONE AE (SEE REFERENCE 9)
	WETLANDS (SEE REFERENCE 8)
	TRAFFIC FLOW DIRECTION



0 30' 60' 90'

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '30'', '60'', and '90'' at regular intervals.

SMITH+
GARDNER
ENGINEERS

SEA



SEA

[illegible]

PROJECT TITLE:

**ANN STREET LANDFILL
SOLID WASTE TRANSFER STATION
TRANSFER STATION**

DRAWING TITLE

TRAILER PARKING SITE PLAN

DESIGNED: S.A.S.	PROJECT NO: CUMBERLAND 22-1
DRAWN: R.V.M.	SCALE: AS SHOWN
APPROVED:	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0263	
SHEET NUMBER: 5	DRAWING NUMBER: S4



CUMBERLAND-D0263	
SHEET NUMBER: 6	DRAWING NUMBER: S5

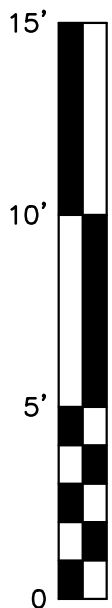
1. SITE TOPOGRAPHY DATED JANUARY 7, 2021 BY GEDOTA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY IN ACTIVE AREAS PREPARED ON DEC. 6, 2022, BY SMITH GARDNER INC.
2. PERMETER BOUNDARY INFORMATION DATED MAY 26, 2022, BY JOYNER KEENE, FAYETTEVILLE, NC.
3. LANDLIFT PLAN INFORMATION PROVIDED BY SCS ENGINEERS, PC, DRAWING TITLED "ANN STREET GAD LANDLIFT FACILITY PLAN"
4. TEST PIT LOCATIONS PROVIDED BY SCS ENGINEERS, P.C. DRAWING TITLED TEST PIT SITE PLAN.
5. EXISTING LANDSCAPE GAS SYSTEM LOCATIONS DIGITIZED BASED ON "AS-BUILT EXISTING CONDITIONS" DATED SEPTEMBER 29, "AS-BUILT SITE PLAN" DATED APRIL 2020; PREPARED BY SCS ENGINEERS, WITH SUPPLEMENTS FROM CAD DRAWING TITLED 2021-01-08 BLOWER AND FLARE PAD AS-BUILT MAP. PREPARED BY FIVE CIVIL ENGINEERS AND LAND SURVEYORS; DATED OCT. 11, 2021.
6. MONAGNE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY SURVEYING SOLUTIONS OF YOUNGSHINE, NC; DATED JUNE 21, 2022.
7. SANITARY SEWER EASMENT PROVIDED BY THE LAND COUNTY UTILITY EASEMENT DEDICATED FROM DRAWING TITLED "CAMPELL CAMPANY 20' SANITARY SEWER EASMT", PROVIDED BY THE CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION, DATED 4/7/1991.
8. WETLAND LOCATIONS PROVIDED BY 40 SURVEYS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDLIFT", DATED APRIL 13, 2020.
9. FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP NUMBER 0447, MAP NUMBER 3720044A700K, DATED 06/18/07.
10. FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.



 TRAFFIC FLOW DIRECTION

1. SITE TOPOGRAPHY DATED JANUARY 7, 2021 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY IN ACTIVE AREAS PREFORMED ON DEC. 6, 2022, BY SMITH GARDNER INC.
2. PERMETER BOUNDARY INFORMATION DATED MAY 26, 2022 BY JOYNER KEENE, FAYATTEE
3. LANDLIFT WAS WELL LOCATION PROVIDED BY SCS ENGINEERS, PC, DRAWING TITLED "ANN STREET C&D LANDFILL FACILITY PLAN."
4. TEST PIT LOCATIONS PROVIDED BY SCS ENGINEERS, P.C. DRAWING TITLED TEST PIT SITE PLAN.
5. EXISTING LANDLIFT GAS SYSTEM LOCATIONS DIGITIZED BASED ON "AS-BUILT EXISTING CONDITIONS" DATED SEPTEMBER 19, "AS-BUILT SITE PLAN" DATED APRIL 2020, PREPARED BY SCS ENGINEERS, WITH SUPPLEMENTS FROM CAD DRAWING TITLED 2021-11-08 BLOWER AND FLARE PAD AS-BUILT MAP; PREPARED BY FEI CIVIL ENGINEERS AND LAND SURVEYORS; DATED OCT. 11, 2021.
6. MONAGANE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY SURVEYING SOLUTIONS OF YOUNGKING INC, DATED JUNE 21, 2022.
7. SANITARY SEWER EASEMENT, FROM CUMBERLAND COUNTY UTILTY EASEMENT DIGITIZED FROM DRAWING TITLED "CAMBELL COMPANY 20" SANITARY SEWER EASMT", PROVIDED BY THE CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION, DATED 4/7/1971.
8. WETLAND LOCATIONS PROVIDED BY 4D SOLUTIONS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDFILL", DATED APRIL 13, 2020.
9. FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 372004A700K, DATED 06/18/07.
10. FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.

FILENAME:		CUMBERLAND-D0263	
SHEET NUMBER:		DRAWING NUMBER:	
7		S6	



PROFILE
SCALE: AS SHOWN

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1. WATER FOR CONSTRUCTION PURPOSES AVAILABLE FROM TAP ON BUILDING.
2. LANDFILL GAS SYSTEM COMPONENTS IN CELLS 8-10 UNDER CONSTRUCTION, PROPOSED WORK IS SHOWN.

- | | |
|--|--|
| | EXISTING CONTOUR (SEE REFERENCE 1) |
| | PROPERTY LINE (SEE REFERENCE 2) |
| | STREAM (APPROXIMATE) |
| | APPROXIMATE EXISTING WASTE LIMITS |
| | PROPOSED WATER LINE |
| | LIMIT OF FUTURE WASTE PLACEMENT |
| | LIMITS OF DISTURBANCE |
| | EXISTING SEWER LINE |
| | EXISTING LEACHATE LINE |
| | EXISTING WATER LINE |
| | EXISTING LANDFILL GAS LINE
(SEE REFERENCES 5, 6, & 11) |
| | EXISTING COMPRESSED AIR LINE
(SEE REFERENCES 5, 6, & 11) |
| | EXISTING CONDENSATE LINE
(SEE REFERENCES 5, 6, & 11) |
| | EXISTING COMPRESSED AIR AND CONDENSATE LINE
(SEE REFERENCES 5, 6, & 11) |
| | EXISTING FORCEMAIN
(SEE REFERENCES 5, 6, & 11) |
| | FINAL COVER LIMITS
(SEE REFERENCE 11) |
| | FLOOD ZONE AE
(SEE REFERENCE 9) |
| | FLOODWAY
(SEE REFERENCE 9) |
| | WETLANDS
(SEE REFERENCE 8) |
| | LFG EXTRACTION WELL
(SEE REFERENCE 5 & 11) |
| | LFG CAP WELL
(SEE REFERENCE 5) |
| | LEACHATE CLEANOUT WELL
(SEE REFERENCE 5 & 11) |
| | TEST PIT
(SEE REFERENCE 4) |
| | GAS MONITORING PROBE
(SEE REFERENCE 4) |
| | MONITORING WELL
(SEE REFERENCE 4) |
| | INJECTION WELL
(SEE REFERENCE 5) |
| | STORMWATER MONITORING POINT
(SEE REFERENCE 4) |
| | CONDENSATE SUMP
(SEE REFERENCE 5 & 11) |
| | PROPOSED REMOTE WELLHEAD |
| | EXISTING LEACHATE
COLLECTION PIPE CLEANOUT
(SEE REFERENCE 5) |
| | SEWER MANHOLE |
| | LEACHATE MANHOLE |
| | FIRE HYDRANT |
| | BACKFLOW PREVENTER |

1. SITE TOPOGRAPHY DATED MARCH 18, 2022 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY FOR CELLS 8-10 BY SMITH GARDNER US AERIAL TOPOGRAPHY, DATED MARCH 21, 2024.
2. PERMETER BOUNDARY INFORMATION DATED MAY 26, 2022 BY JOYNER KENNY, FAYETTEVILLE, NC.
3. LANDFILL AS WELL LOCATION PROVIDED BY SCS ENGINEERS, PC, DRAWING TITLED "ANN STREET C&D LANDFILL FACILITY PLAN".
4. TEST PIT LOCATIONS PROVIDED BY SCS ENGINEERS, P.C. DRAWING TITLED TEST PIT SITE PLAN.
5. EXISTING LANDFILL GAS SYSTEM LOCATIONS DIGITIZED BASED ON "AS-BUILT EXISTING CONDITIONS" DATED SEPTEMBER 19, "AS-BUILT SITE PLAN" DATED APRIL 2020, PREPARED BY SCS ENGINEERS. WITH SUPPLEMENTS FOR CAD DRAWING TITLED 2021-11-08 BLOWER AND FLARE PAD AS-BUILT MAP. PREPARED FEI CIVIL ENGINEERS AND LAND SURVEYORS, DATED OCT. 11, 2021.
6. MONAHEE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY THE COUNTY OF YONKINS, NC, DATED AUGUST 21, 2022.
7. SANITARY SEWER EASEMENT AND CUMBERLAND COUNTY UTILITY EASEMENT FROM CUMBERLAND COUNTY DEED BOOK 932, PAGE 471. EASEMENT DIGITIZED FROM DRAWING TITLED "CAMPELL COMPANY 20' SANITARY SEWER EASMENT", PROVIDED BY THE CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION, DATED 04/07/1971.
8. WETLAND LOCATIONS PROVIDED BY 40 SOLUTIONS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDFILL", DATED APRIL 13, 2020.
9. FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 3720044700K, DATED 06/18/07.
10. FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.
11. PROTECTIVE COVER (PCOR) ELEVATIONS FOR CELLS 1-5 BASED ON C&D DRAWING TITLED "CUMBERLAND COUNTY ANN STREET LANDFILL FACILITY PLAN", DATED JANUARY 1995; CELLS 6-8 (PCOR) FLOODPLAIN BASED ON C&D DRAWING FROM C&D MAP DATED SEPTEMBER 19, 2020; CELLS 9-10 (PCOR) BASED ON C&D DRAWING FROM C&D TITLED "CUMBERLAND FL FINAL ASBUILT".
12. ALL POINT FEATURES FOR WATER, SEWER, AND LEACHATE INFRASTRUCTURE FROM FIELD SURVEYS CONDUCTED BY SMITH GARDNER, INC., DATED 12/07/2013, 12/20/2013, AND 01/15/2014.
13. WATER LINES IN ENTRANCE AREA FROM DRAWING TITLED "ANN STREET LANDFILL SITE ENTRANCE IMPROVEMENTS" BY SCS ENGINEERS, PC, DATED APRIL 2020.
14. LEACHATE FOREMAN LOCATION BETWEEN P-S1 AND P-S-2 FROM DRAWING TITLED "TOPOGRAPHY BASE MAP OF A PORTION OF THE ANN STREET LANDFILL" FEBRUARY 2018 FROM CUMBERLAND COUNTY SLOID WASTE MANAGEMENT BY JOYNER KENNY, P.L.L.C. DATED 03/29/2018.



NC LIC. NO. F-1370 [ENGINEERING]
SC COA NO. C01488

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
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1

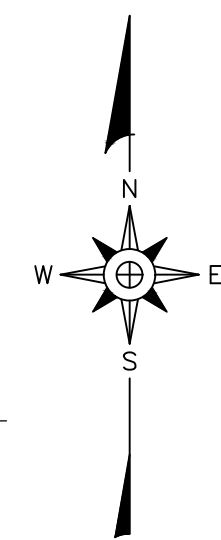
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**ANN STREET LANDFILL
SOLID WASTE TRANSFER STATION
TRANSFER STATION**

**LEACHATE FORCEMAIN
PLAN AND PROFILE
(SHEET 1 OF 2)**

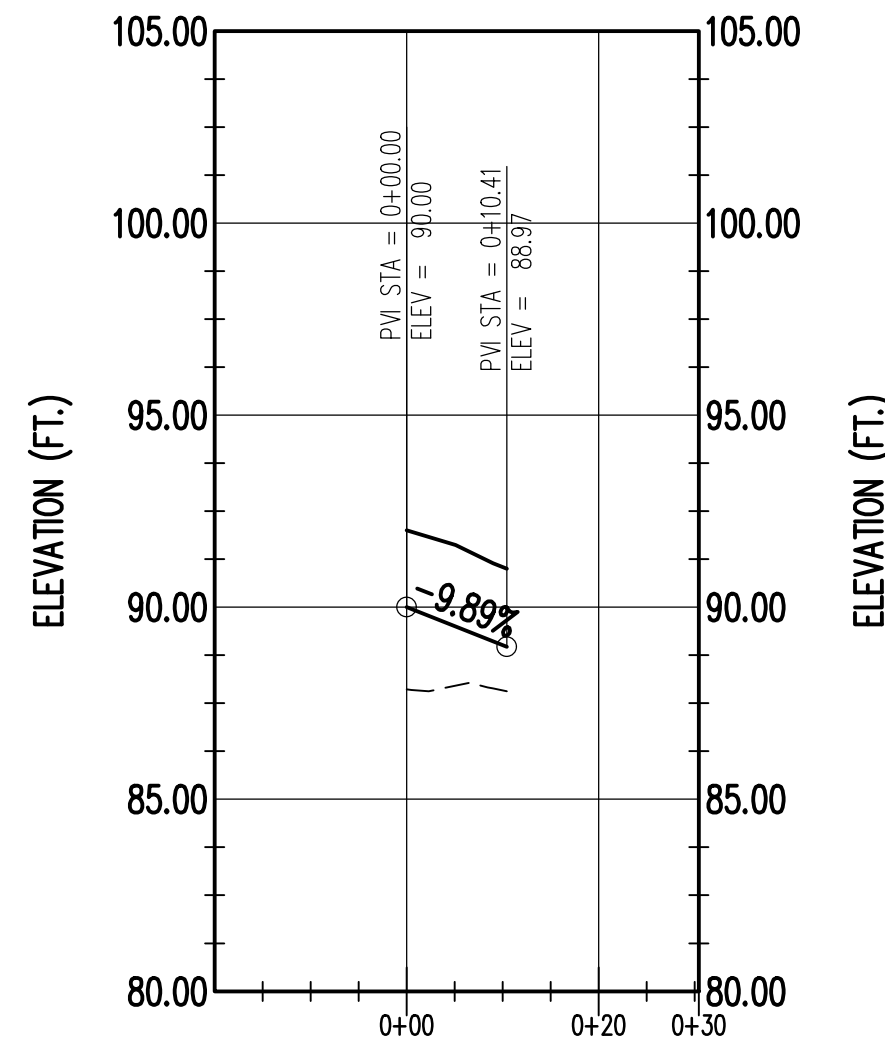
DESIGNED:	S.A.S.	PROJECT NO:	CUMBERLAND 22-1
DRAWN:	R.V.M.	SCALE:	AS SHOWN
APPROVED:		DATE:	DEC. 2024
FILENAME:	CUMBERLAND-D0263		
SHEET NUMBER:	8	DRAWING NUMBER:	S7



- ## REFERENCES

- ## NOTES

1. WATER FOR CONSTRUCTION PURPOSES AVAILABLE FROM TAP ON BUILDING.
2. LANDFILL GAS SYSTEM COMPONENTS IN CELLS 8-10 UNDER CONSTRUCTION, PROPOSED WORK IS SHOWN.



FOR BIDDING
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PREPARED FOR



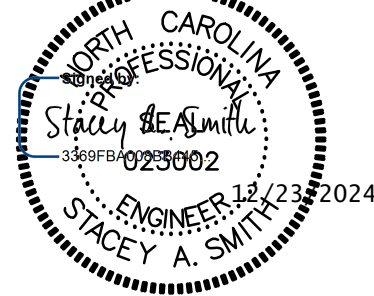
PREPARED BY:

NC LIC. NO. F-1370 [ENGINEERING]
SC COA NO. C01488

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GARDNER
ENGINEERS

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
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SEA



SEA

[illegible]

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PROJECT TITLE:

**ANN STREET LANDFILL
SOLID WASTE TRANSFER STATION
TRANSFER STATION**

DRAWING TITLE

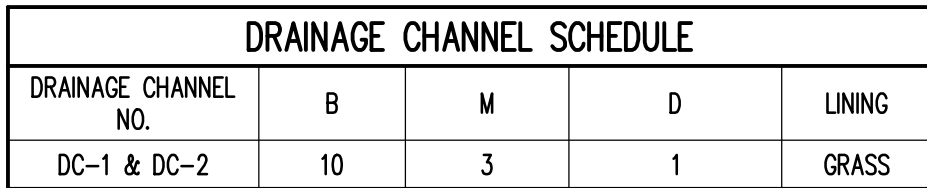
**LEACHATE FORCEMAIN
PLAN AND PROFILE
(SHEET 2 OF 2)**

DESIGNED:	S.A.S.	PROJECT NO:	CUMBERLAND 22-1
DRAWN:	R.V.M.	SCALE:	AS SHOWN
APPROVED:		DATE:	DEC. 2024
TITLE NAME:		CUMBERLAND-D0263	
SHEET NUMBER:		DRAWING NUMBER:	
9		S8	

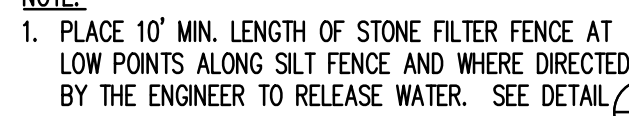


D1

1. FOR ANCHORAGE OF ECB, SEE DETAIL $\frac{2}{EC2}$

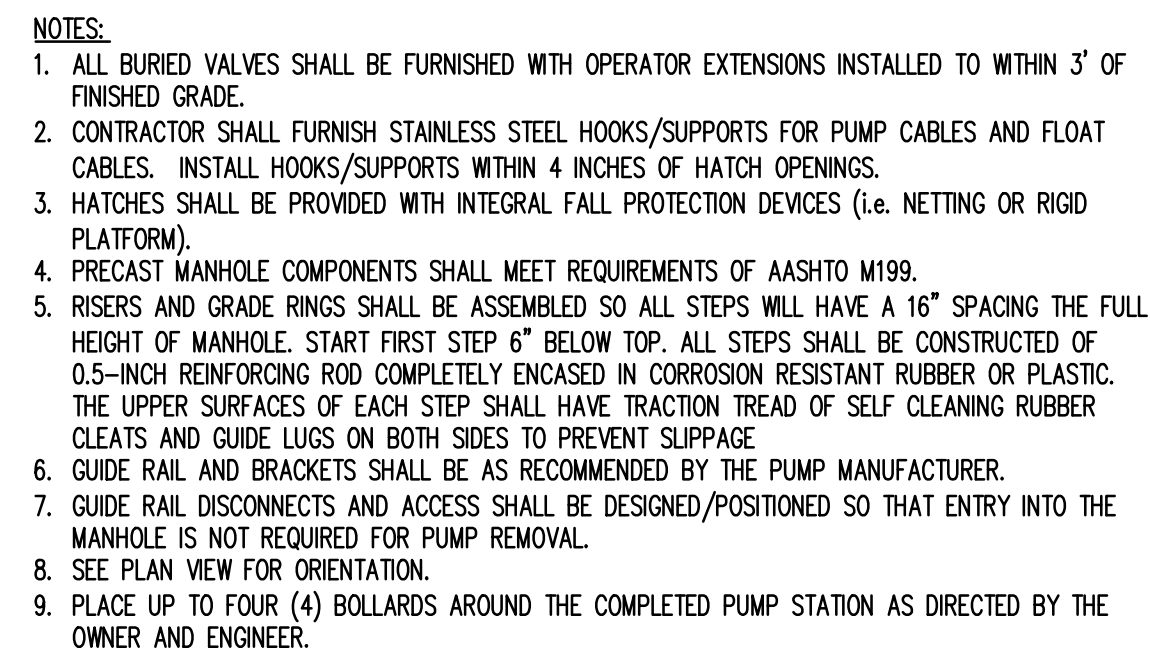


DETAIL 1
NOT TO SCALE EC1



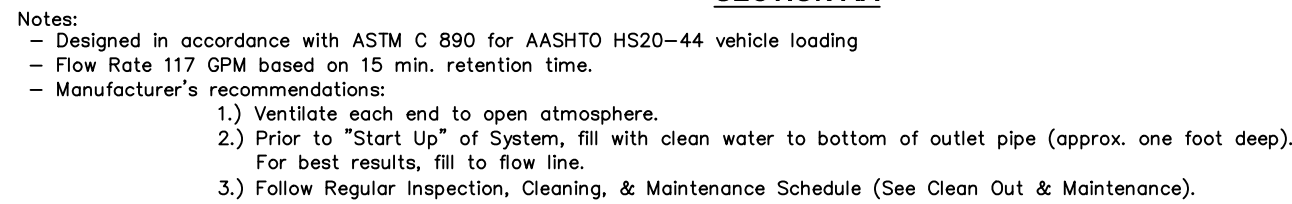
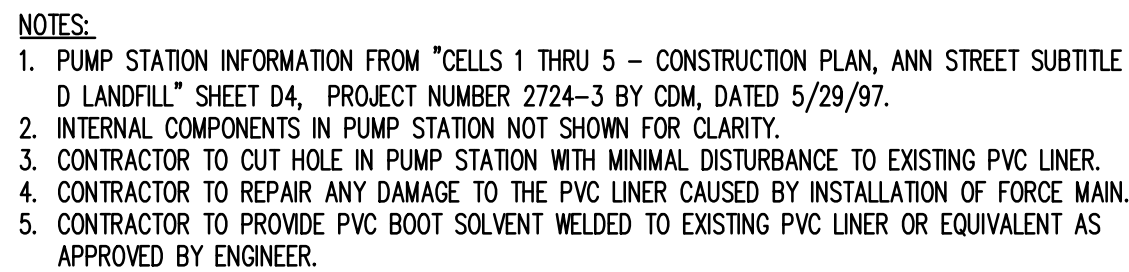
DETAIL 3
NOT TO SCALE EC1

FOR BIDDING
NOT FOR CONSTRUCTION



DETAIL 1
NOT TO SCALE

FOR BIDDING
NOT FOR CONSTRUCTION



NOTES:

1. INSTALLATION SHALL BE DRY BORE AND JACKING OF SMOOTH WALL SHALL BE MAINTAINED TO PREVENT VALVE FROM BEING NOT ALLOWED.
2. REFER TO SCHEDULED CHART FOR CARRIER PIPE SIZE AND STEEL CASING SIZE, MINIMUM DRAINAGE AND WALL THICKNESS.
3. BORE SHALL BE PERFORMED BY THE CONTRACTOR USING A 3" STEEL CASING WITH A MINIMUM YIELD STRENGTH OF 35,000PSI.
4. EACH END OF ENCASUREMENT TO BE FLUGHED WITH BRICK, ALL Voids TO BE FILLED WITH CONCRETE.
5. THE BORE OPERATION SHALL BE CONDUCTED IN STAGES WITH 13 PORTLAND CEMENT GROUT AT SUFFICIENT PRESSURE TO INSURE NO SETTLEMENT OF THE UNDERLYING SOIL.
6. THE BORE OPERATION SHALL BE CONDUCTED IN A MANNER THAT SHALL BE AS APPROVED BY THE PERMITTING AGENCY.
7. THE BORE OPERATION SHALL BE COMPLETED BEFORE PIPE CONSTRUCTION BEGINS.
8. THE BORING SHALL BE PERFORMED FROM "UPSTREAM".
9. THE BORING OPERATION MAINTAINING THE CRITICAL DOWNSTREAM INVERT ELEVATION. SHOULD THE BORE NOT BE ON GRADE, A REVERSE BORING OPERATION SHALL BE CONDUCTED TO MAINTAIN THE CRITICAL INVERT.
10. THE BORING OPERATION SHALL BE CONDUCTED IN A MANNER THAT SHALL BE AS APPROVED BY THE PERMITTING AGENCY.
11. THE BORING OPERATION SHALL BE CONDUCTED IN A MANNER SO AS NOT TO CREATE A HAZARD.
12. IF OBSTRUCTION IS ENCOUNTERED DURING THE BORING OPERATION, THE ALGER SHALL BE WITHDRAWN, THE EXCESS CASING PIPE CUT-OFF, CAPPED AND THE INTERIOR AND EXTERIOR Voids FILL WITH PORTLAND CEMENT GROUT TO THE TOP OF THE GROUT UNDER PRESSURE. NO SEPARATE PAYMENT FOR UNSUCCESSFUL BORING SHALL BE MADE.
13. CONTRACTOR SHALL FIELD ADJUST AND INSTALL PROPER PIPE RECTOR TO ACCOMPLISH GRADE AND INVERTS AS SHOWN ON THE DRAWINGS.
14. A MANUAL CONTROL STEERING HEAD OR OTHER GUIDANCE SYSTEM IS REQUIRED FOR ALL BORINGS EXCEPT THOSE BORINGS EXCEEDING 100' IN LENGTH OR AS SPECIFIED.
15. SUBCONTRACTORS SHALL AGREE TO ALL PERMIT REQUIREMENTS AND SHALL PROVIDE APPROVED INSURANCE CERTIFICATES AS REQUIRED.
16. CONTRACTOR SHALL EXECUTE AND PERFORM ALL REQUIREMENTS AND CONDITIONS STIPULATED BY THE PERMITTING AGENCY.
17. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
18. CARRIER PIPE FOR PRESSURE APPLICATIONS (WATER MAINS AND SEWER MAINS) SHALL BE 12" MINIMUM DRAINAGE AND WALL THICKNESS FOR PIPE GRAVEY SEWER SHALL HAVE RESTRAINED JOINTS AND MAY BE 10" MINIMUM DRAINAGE AND WALL THICKNESS.
19. OTHER APPROVED GASKETS

LM2

FOR BIDDING
NOT FOR CONSTRUCTION

A.B	ANCHOR BOLT	E	EAST	INT	INTERIOR	REC'D	REQUIRED
ACQ/ST	ACQUISITORY	EA	EAST	JR	JOINT	RESIL	RESILIENT
ACT	ACOUSTICAL CEILING TILE	E.B.	EXPANSION BOLT	JT	JOINT	REV	REVISION
A.F.F	ABOVE FINISH FLOOR	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	JM	JAMMED	RM	ROOM
ALUM	ALUMINUM	EJ	EXPLANATION (JOINT)	LF	LINEAR FEET	R.O	ROUGH OPENING
APPROX	APPROXIMATELY	EL	ELEVATION FLOOR	LG	LONG, LARGE	R.MTS	REQUIREMENTS
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	ELEVATION	LH	LONG-LENG-HORIZONTAL	RTJ	ROOF TOP JOINT
BD	BOARD	ELEC	ELECTRICAL	LLV	LONG LEG VERTICAL	R.W.L	RAIN WATER LEADER
BLDG'G	BUILDING	EQ	EQUAL	LP	LOW POINT	SCH	SCHEDULE
BLK	BLK	EQUIP	EQUIPMENT	MAS	MASONRY	S.F.	SQUARE FEET
BM	BEAM	EW	EACH WAY	MAL	MATERIAL	SHT	SHEET
B.O.S	BOTH SIDES OF STEEL	EWG	ELECTRIC WATER COOLER	MAX	MAXIMUM	SHR	SHRINK
BRG	BEARING	EXIST	EXISTING	MECH	MECHANICAL	S.M.S	SHEET METAL SCREW
BS	BOTH SIDES	EXP	EXPPOSED, EXPANSION	MD	MEDIUM	SPEC	SPECIFICATIONS
BTM	BOTTOM	EXT	EXTERIOR	MFR	MANUFACTURER	SQ	SQUARE
BLR	BUILT-UP ROOF	F.D.	FLOOR DRAIN	MN	MINIMUM	S.S	STAINLESS STEEL
C.I	CAST IRON	F.F.	FIRE EXTINGUISHER	MSC	MISCELLANEOUS	STD	STANDARD
C.J	CORNER JOINT	F.F.F	FINISH FLOOR ELEVATION	M.O.	MASONRY OPENING	STL	STEEL
C.T	CERAMIC TILE	FO	FACE OF	M.R	MOISTURE-RESISTANT	STOR	STORAGE
CAB	CABINET	FIN	FINISH	M.R.G.B	MOISTURE-RESISTANT GYPSUM BOARD	STRUCT	STRUCTURAL
CEM	CEMENTITIOUS	FL.R	FLOOR	MTD	MOUNTED	SUSP	SUSPENDED
CG	CORNER GUARD	FLOOR	FLOORESCENT	MTL	METAL	T	TREAD
CL	CLEAR	FOUND	FOUNDATION	N	NORTH	TB	TOP BOTTOM
CLG	CEILING	F.S.	FLOOR SINK	N.I.C	NOT IN CONTRACT	TEL	TELEPHONE
CMU	CONCRETE MASONRY UNIT	FTG	FOOTING	NO. #	NUMBER	TOP	TOP OF
CO	CLEAN OUT	General contractor		NTS	NOT TO SCALE	T.M	TOP OF MASONRY
COL	COLUMN	GA	GAUZE	OA	OVERALL	T.O.S	TOP OF STEEL
CO	CONCRETE	GAUZE	GAUZE	O.D	OVERFLOW DOWN	TH	THICKNESS
CONST	CONSTRUCTION	GEN	GENERAL	OH	OVERHEAD	TY	TYPICAL
CONT	CONTINUOUS	GL	GLASS/GLAZING	OUT	OUT TO OUT	UL	UNDERWRITERS LABORATORY
CONTR	CONTRACTOR	GWB	GYPSUM WALLBOARD	O.C	ON CENTER	U.O.N	UNLESS OTHERWISE NOTED
OPT	CARPET	GY	GYPSUM	O.D.	OUTSIDE DIAMETER	V	VERT
CR	CENTRAL-DIAPHRAGM	H	HIGH	OPG	OPENING	VCT	VANLY COMPOSITION TILE
CSK	COUNTERSINK	HB	HOSE BIBB	OPP	OPPOSITE	VERT	VERTICAL
D	DEPTH	HC	HANDICAPPED	P	PANT	W	WEST, WIDTH, WASTE, WIRE
DBL	DOUBLE	HDW	HARDWARE	PC	PIECE	WI	WITH
DEMO	DEMOLITION	H.M.	HOLLOW MASONRY	PL	PLATE	W.C	WATER CLOSET
DET	DETAIL	H.M.Z	HORIZONTAL	PLAS	PLASTER, PLASTIC	WO	WOOD
DI	DIAMETER	HP	HIGH POINT	P.W.D	P-WOOD	WT	WEIGHT
DN	DOWN	HT	HEIGHT	PTD	PANED	WH, WH	WATER HEATER
DM	DIMENSION	HVAC	HEATING, VENTILATION & AIR CONDITIONING	QUN	QUANTITY	WI	WITHIN
D.O	DOOR OPENING	ID	INTERIOR DIAMETER	Q.T	QUARRY TILE	WO	WITHOUT
D.S	DOOR SWING	INCL	INCLUDE	R	RADIUS, RISER	WWF	WELDED WIRE FABRIC
DWG	DRAWING	INSUL	INSULATION	R.D	ROOF DRAIN	X	EXISTING TO REMAIN
				REIN	REINFORCING	XTR	EXISTING TO BE REMOVED

1. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND IN THE PLANS, DETAILS AND/OR SPECIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. CONTRACTOR SHALL BEAR RESPONSIBILITY FOR VERIFYING COMPLIANCE OF SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS PRIOR TO ORDERING MATERIALS OR BEGINNING FABRICATION.
3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INCLUDED IN THE CONTRACT DOCUMENTS. ALL CORRESPONDENCE FROM THE SUBCONTRACTORS SHALL BE THROUGH THE GENERAL CONTRACTOR.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND STATUTES, WHETHER SPECIFICALLY REFERENCED BY THE PLANS OR NOT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND SECURING REQUIRED INSPECTIONS.
6. BUILDING SIGNAGE IS TO BE PROVIDED UNDER SEPARATE CONTRACT BY OTHERS.
7. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SIGNAGE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.), ICC/ANSI A117.1-2009, AND THE LATEST EDITION OF THE NORTH CAROLINA BUILDING CODE
8. ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.
9. ANY DEFECTIVE WORK AND ANY DAMAGE RESULTING THEREFROM SHALL BE REPAIRED AT NO COST TO THE OWNER
10. ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL REFUSE FROM THE PROJECT.
12. NO SMOKING WILL BE PERMITTED INSIDE THE PROJECT AREA.
13. CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO SUPPORT ALL CONTRACTOR-SUPPLIED AND OWNER-SUPPLIED WALL-HUNG EQUIPMENT OR CASEWORK. CONFIRM LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
14. THE ADJACENT SITE MAY BE OCCUPIED BY THE PUBLIC DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SAFEGUARD THE HEALTH AND WELFARE OF THE PUBLIC. ALL REQUIRED MEANS OF EGRESS SHALL BE KEPT CLEAR AND ACCESSIBLE AT ALL TIMES.
15. THE GENERAL CONTRACTOR SHALL THOROUGHLY REVIEW MANUFACTURER'S LITERATURE AND SHOP DRAWINGS FOR ALL FIXTURES AND/OR EQUIPMENT (WHETHER PROVIDED BY THE OWNER, TENANT OR CONTRACTOR) PRIOR TO ROUGH-IN FOR UTILITIES. CONFIRM ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK
16. LABEL ALL FIRE-RATED WALLS ABOVE CEILING AS REQUIRED BY NC BUILDING CODE 2018, SECTION 703.7. SUGGESTED WORDING: "___, HR RATED FIRE AND/OR SMOKE BARRIER. PROTECT ALL OPENINGS."
17. THE GENERAL CONTRACTOR SHALL PROVIDE KNOX BOX, IF REQUIRED BY LOCAL JURISDICTION

698 ANN STREET | FAYETTEVILLE NC 28301

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SHEET#	DESCRIPTION	ISSUED FOR CONSTRUCTION	LATEST REVISION
GENERAL			
G101	COVER SHEET	12/20/2024	
G102	BUILDING CODE SUMMARY	12/20/2024	
G103	LIFE SAFETY PLAN	12/20/2024	
ARCHITECTURAL			
A101	FLOOR PLAN	12/20/2024	
A201	ROOF PLAN	12/20/2024	
A301	REFLECTED CEILING PLAN	12/20/2024	
A500	ISOMETRICS	12/20/2024	
A501	BUILDING ELEVATIONS	12/20/2024	
A502	BUILDING ELEVATIONS	12/20/2024	
A601	BUILDING SECTIONS	12/20/2024	
A602	BUILDING SECTIONS	12/20/2024	
A801	DETAILS	12/20/2024	
AS101	SPECIFICATIONS	12/20/2024	
STRUCTURAL			
S101	MAIN LEVEL FOUNDATION PLAN	12/20/2024	
S102	LOWER LEVEL FOUNDATION PLAN	12/20/2024	
S103	DEFLECTOR FRAMING PLAN AND DETAILS	12/20/2024	
S201	STRUCTURAL NOTES AND DETAILS	12/20/2024	
S202	SECTIONS AND DETAILS	12/20/2024	
S203	SECTIONS AND DETAILS	12/20/2024	
S204	SECTIONS AND DETAILS	12/20/2024	

P101	PLUMBING PLAN	12/17/2024	
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M001	MECHANICAL LEGENDS, NOTES, DETAILS	12/17/2024	
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ELECTRICAL			
E001	ELECTRICAL LEGENDS, NOTES, DETAILS	12/17/2024	
E101	ELECTRICAL PLAN	12/17/2024	
E201	POWER RISER, PANEL SCHEDULE	12/17/2024	

SA001	SPRINKLER ALARM LEGEND, NOTES, DETAILS	11/27/24	
SA101	SPRINKLER ALARM PLANS	11/27/24	

FP001	FIRE PROTECTION NOTES, LEGENDS,	11/27/2024	
FP101	FIRE PROTECTION PLAN	11/27/2024	
FP201	FIRE PROTECTION SECTION PLAN	11/27/2024	
FP301	FIRE PROTECTION SITE PLAN	11/27/24	



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NEW TRANSFER STATION
for CUMBERLAND COUNTY

MSW LANDFILL
698 ANN STREET | FAYETTEVILLE NC 28301

[illegible]

CONTENTS:
COVER SHEET

G101

BUILDING CODE SUMMARY

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT FOR 1 AND 2- FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: NEW TRANSFER STATION FOR CUMBERLAND COUNTY
ADDRESS: ANN STREET ZIP CODE: 28301
PROPOSED USE: WASTE TRANSFER
OWNER OR AUTHORIZED AGENT: JOHN BARNARD (SMITH+GARDNER) PHONE: (919) 828.0577 E-MAIL: jhnb@smithgardnerinc.com
OWNED BY: CITY/COUNTY PRIVATE STATE
CODE ENFORCEMENT JURISDICTION: CITY FAYETTEVILLE COUNTY STATE

CONTACT:	EDMUND J. GONTRAM III, AIA		GONTRAM ARCHITECTURE INC.		
DESIGNER:	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL
ARCHITECT:	GONTRAM ARCHITECTURE INC.	EDMUND J. GONTRAM III, AIA	7177	(919) 878-5331	eddie@gontramarchitecture.com
CIVIL:	(NOT APPLICABLE)	(NOT APPLICABLE)			
ELECTRICAL:	ATLANTEC ENGINEERS now MEG	DAVID WHITNEY, PE	17382	(919) 571-1111	david.whitney@megcorp.com
FIRE ALARM:	ATLANTEC ENGINEERS now MEG	DAVID WHITNEY, PE	17382	(919) 571-1111	david.whitney@megcorp.com
PLUMBING:	ATLANTEC ENGINEERS now MEG	BRADLEY W. FELTS, PE	29036	(919) 571-1111	brad.w.felts@megcorp.com
MECHANICAL:	ATLANTEC ENGINEERS now MEG	BRADLEY W. FELTS, PE	29036	(919) 571-1111	brad.w.felts@megcorp.com
SPRINK STAND:	ATLANTEC ENGINEERS now MEG	BRADLEY W. FELTS, PE	29036	(919) 571-1111	brad.w.felts@megcorp.com
STRUCTURAL:	ROSS LINDEN ENGINEERS PC	BRIAN M. ROSS, PE	29539	(919) 852-6680	bross@rosslinden.com
RET.WAL>5' H:	ROSS LINDEN ENGINEERS PC	BRIAN M. ROSS, PE	29539	(919) 852-6680	bross@rosslinden.com
OTHER:	(NOT APPLICABLE)	(NOT APPLICABLE)			

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION 1st TIME INTERIOR COMPLETION
SHELL/CORE PHASED CONSTRUCTION - SHELL/CORE
2018 NC EXISTING BUILDING CODE: PRESCRIPTIVE REPAIR CHAPTER 14
ALTERATION-LEVEL HISTORIC PROPERTY CHANGE OF USE
CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch.3)
RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch.3) S-1
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

SCOPE OF WORK:
NEW 18080 GSF PRE-ENGINEERED METAL BUILDING FOR WASTE TRANSFER.
INCLUDES LOADING AND TIPPING LEVELS, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION

BASIC BUILDING DATA

CONSTRUCTION TYPE: I-A II-A III-A IV V-A
I-B II-B III-B V-B

SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
STANDPIPES: NO YES CLASS: I II III WET DRY
FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
SPECIAL INSPECTIONS REQUIRED: NO

GROSS BUILDING AREA TABLE			
FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
4TH FLOOR			
3RD FLOOR			
2ND FLOOR			
1ST FLOOR		18,111 GSF	18,111 GSF
BASEMENT			
TOTAL		18,111 GSF	18,111 GSF

PROJECT AREA: 18,111 GSF

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):

ASSEMBLY: A-1 A-2 A-3 A-4 A-5
BUSINESS
EDUCATIONAL
FACTORY: F-1 Moderate F-2 Low
HIGH-HAZARD: H-1 (Detonate) H-2 (Deflagrate) H-3 (Combust) H-4 (Health) H-5 (HPM)
INSTITUTIONAL: I-1 Condition 1 2
I-2 Condition 1 2
I-3 Condition 1 2 3 4 5
I-4
MERCANTILE
RESIDENTIAL: R-1 R-2 R-3 R-4
STORAGE: S-1 Moderate S-2 Low High-Piled
Parking Garage Open Enclosed Repair Garage
UTILITY AND MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S):
INCIDENTAL USES (TABLE 509):
SPECIAL USES (CHAPTER 4 - List code sections):
SPECIAL PROVISIONS (CHAPTER 5 - List code sections):
MIXED OCCUPANCY: NO YES SEPARATION Hr.
EXCEPTION

NON-SEPARATED MIXED OCCUPANCY (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
SEPARATED MIXED OCCUPANCY (508.4) - SEE BELOW FOR AREA CALCULATIONS
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$
$$+ \leq 1$$
$$+ \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,3}	(D) ALLOWABLE FLOOR AREA OR UNLIMITED ^{1,3}
1	STORAGE (S-1)	18,111	70,000		70,000

¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
Percent of frontage increase_F = 100(F/P - 0.25) x W/30 = (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4.
⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (TABLE 504.3)	H= 78	40	
BUILDING HEIGHT IN STORIES (TABLE 504.4)	S= 4	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1.
³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, AND TRUSSES		NC					
BEARING WALLS							
EXTERIOR							
NORTH		N/A					
EAST		N/A					
WEST		N/A					
SOUTH		N/A					
INTERIOR		N/A					
NONBEARING WALLS AND PARTITIONS							
EXTERIOR WALLS							
NORTH		NC					
EAST		NC					
WEST		NC					
SOUTH		NC					
INTERIOR WALLS AND PARTITIONS		NC					
FLOOR CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS		N/A					
FLOOR CEILING ASSEMBLY		N/A					
COLUMNS SUPPORTING FLOORS		N/A					
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS		N/A					
ROOF CEILING ASSEMBLY		N/A					
COLUMNS SUPPORTING ROOF		N/A					
SHAFT ENCLOSURES - EXIT		N/A					
SHAFTS ENCLOSURES- OTHER		N/A					
CORRIDOR SEPARATION		N/A					
OCCUPANCY/FIRE BARRIER SEPARATION		N/A					
PARTY FIREWALL SEPARATION		N/A					
SMOKE BARRIER SEPARATION		N/A					
SMOKE PARTITION		N/A					
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION		N/A					
INCIDENTAL USE SEPARATION		N/A					

* INDICATE SECTION NUMBER PERMITTING REDUCTION.

PERCENTAGE OF WALL OPENINGS CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
ALL SIDES >30 FEET	UP, S	NO LIMIT	

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO YES
EXIT SIGNS: NO YES
FIRE ALARM: NO YES FIRE SPRINKLER ALARM ONLY
SMOKE DETECTION SYSTEMS: NO YES PARTIAL
CARBON MONOXIDE DETECTION: NO YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: G102
☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation. (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit sign locations (1013)
☒ Exit access travel distances (1017)
☒ Common path of travel distances (1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.8)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above.

ACCESSIBLE DWELLING UNITS
(SECTION 1107) (NOT APPLICABLE)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBILITY PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED 96" SPACES	132" SPACES	TOTAL # ACCESSIBLE PROVIDED
	0	0			
TOTAL	0	0			

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
	EXISTING										
	NEW										
	REQUIRED	0	0			0	0				

*NOTE: PLUMBING FACILITIES PROVIDED ON SITE AT SEPARATE BUILDING.

SPECIAL APPROVALS

SPECIAL APPROVAL: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc. describe below)
(NOT APPLICABLE)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus the annual energy cost for the proposed design
EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (the remainder of this section is not applicable)
EXEMPT BUILDING: NO YES (provide code or statutory reference) NCGS 143-148 (b18) UNCONDITIONED BUILDING
CLIMATE ZONE: 3A 4A 5A
METHOD OF COMPLIANCE:
☐ ENERGY CODE - PERFORMANCE ☐ ENERGY CODE - PRESCRIPTIVE ☐ OTHER
☐ ASHRAE 90.1 - PERFORMANCE ☐ ASHRAE 90.1 - PRESCRIPTIVE
If "other" specify source here

THERMAL ENVELOPE (Prescriptive method only)

ROOF/CEILING ASSEMBLY (each assembly)
DESCRIPTION OF ASSEMBLY
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION
SKYLIGHTS IN EACH ASSEMBLY
U-VALUE OF SKYLIGHT
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY

EXTERIOR WALLS (each assembly)
DESCRIPTION OF ASSEMBLY
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION
OPENINGS (windows or doors with glazing)
U-VALUE OF ASSEMBLY
SOLAR HEAT GAIN COEFFICIENT
PROJECTION FACTOR
DOOR R-VALUES

WALLS BELOW GRADE (each assembly)
DESCRIPTION OF ASSEMBLY
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS OVER UNCONDITIONED SPACE (each assembly)
DESCRIPTION OF ASSEMBLY
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS SLAB ON GRADE (each assembly)
DESCRIPTION OF ASSEMBLY
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION
HORIZONTAL/VERTICAL REQUIREMENT
SLAB HEATED

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (Is) SEISMIC (Is)
LIVE LOADS: ROOF 20 PSF MEZZANINE PSF FLOOR 100 PSF
GROUND SNOW LOAD: 10 PSF
WIND LOAD: BASIC WIND SPEED 122 MPH (ASCE-7) EXPOSURE CATEGORY
SEISMIC DESIGN CATEGORY A B C D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration Ss 0.234 %g S1 0.100 %g
Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Presumptive Historical Data
Basic Structural System: Bearing Wall Dual w/Special Moment Frame
Building Frame Dual w/Intermediate R/C or Special Steel
Moment Frame Inverted Pendulum
Analysis Procedure Simplified Equiv. Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROL Earthquake Wind
SOIL BEARING CAPACITIES
Field Test (provide copy of test report) psf
Presumptive Bearing Capacity psf
Pile size, type, and capacity

ELECTRICAL SYSTEM AND EQUIPMENT

(SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ENERGY CODE CALCULATIONS.)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

(SEE MECHANICAL DRAWINGS FOR MECHANICAL ENERGY CODE CALCULATIONS.)



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NEW TRANSFER STATION
for CUMBERLAND COUNTY
MSW LANDFILL
698 ANN STREET | FAYETTEVILLE NC 28301

PLOT DATE: 12/20/2024		
ISSUED: 12/20/2024		
FOR CONSTRUCTION		
Rev.	Date	Description

DRAWN BY: PJA	APPROVED: EJG
PROJECT NO.: 24066	RECORD:

CONTENTS:
BUILDING CODE SUMMARY

SHEET:

G102



NEW TRANSFER STATION
for CUMBERLAND COUNTY
MSW LANDFILL
698 ANN STREET | FAYETTEVILLE NC 28301

PLOT DATE:
12/20/2024

ISSUED:
12/20/2024

12/20/2024
FOR CONSTRUCTION

[illegible]

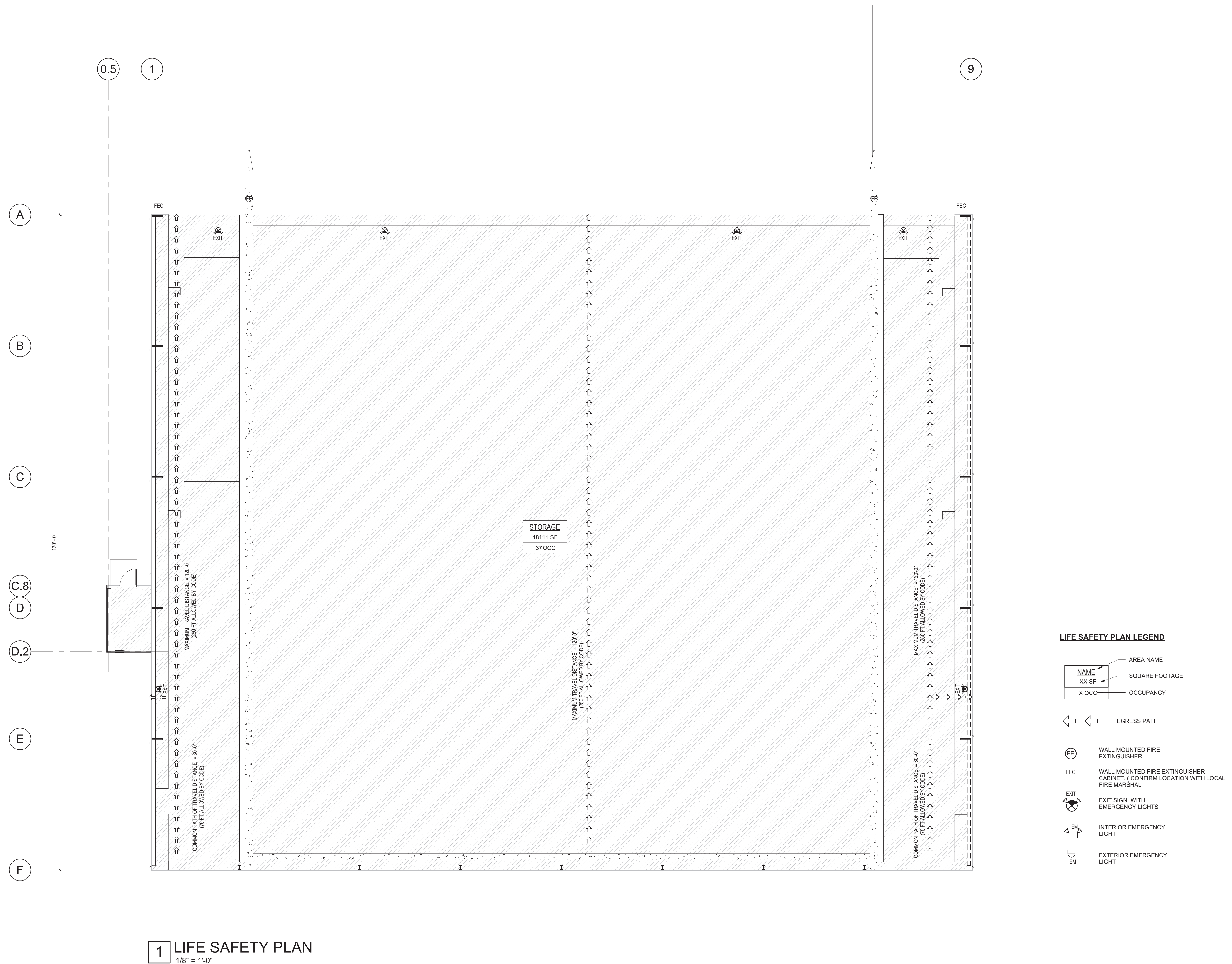
DRAWN BY: PJA	APPROVED: EJG
------------------	------------------

PROJECT NO.:	RECORD:
--------------	---------

CONTENTS:	
LIFE SAFETY PLAN	

SHEET:

G103



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

1. PARTITION TYPE #1 IS TYPICAL THROUGHOUT PROJECT, UNLESS OTHERWISE NOTED.

2. WHERE PARTITIONS OF VARIOUS THICKNESS MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS OTHERWISE NOTED.

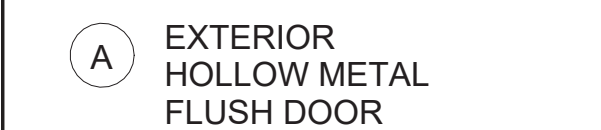
EXTERIOR WALL SCHEDULE

1. WALL TYPE #A IS TYPICAL THROUGHOUT PROJECT, UNLESS OTHERWISE NOTED.

2. WHERE WALLS OF VARIOUS THICKNESS MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS OTHERWISE NOTED.

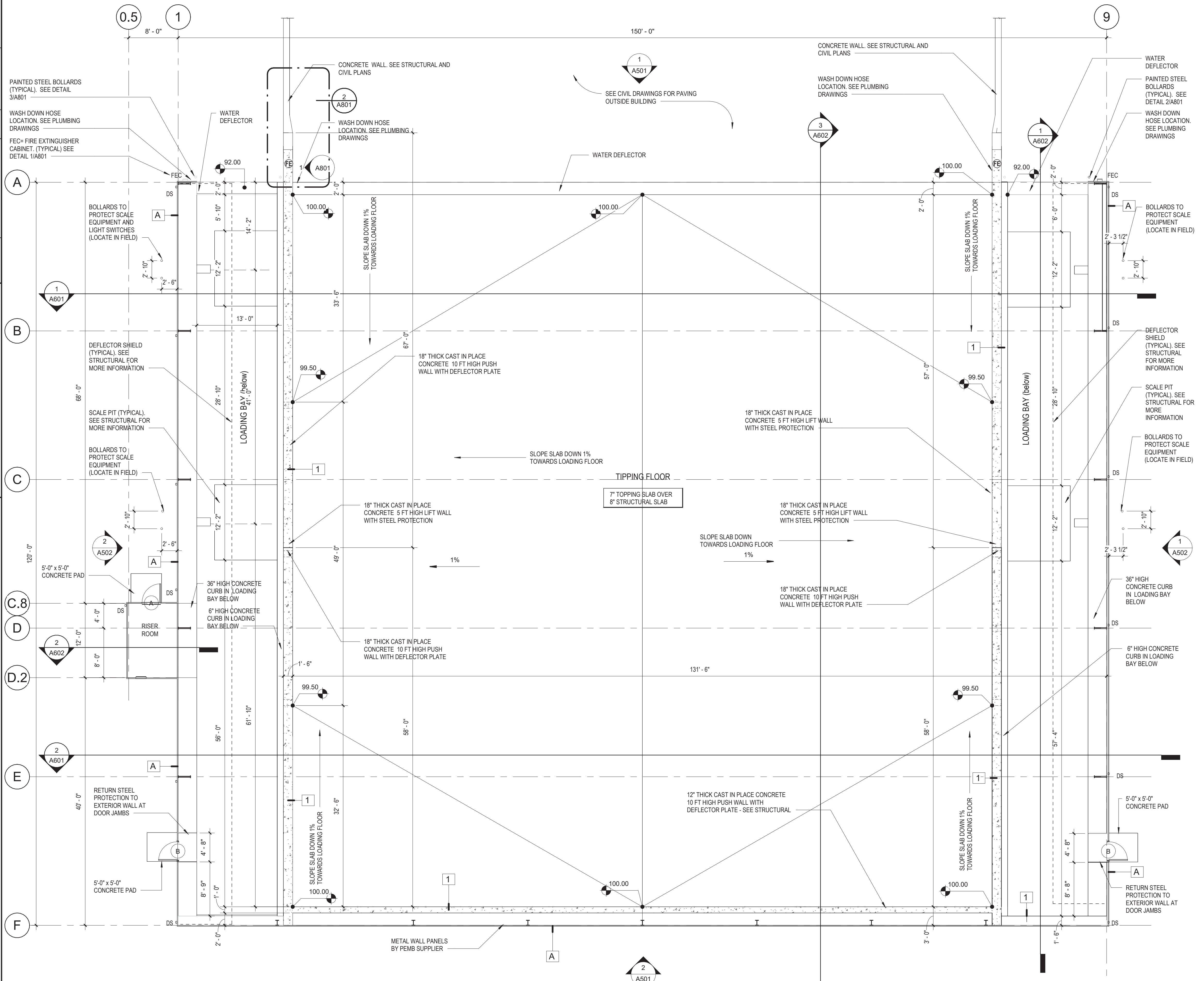
PLAN NOTES:

1. EXTERIOR DIMENSIONS SHOWN ARE FROM BUILDING LINE TO FRAME CENTERLINE TO BUILDING LINE.
2. INTERIOR DIMENSIONS SHOWN ARE FROM FACE OF WALL OR FRAME LINE TO FACE OF WALL OR FRAME LINE
3. DIMENSIONS INDICATED AS "CLEAR" OR "CLR" ARE FROM FINISHED SURFACE TO FINISHED SURFACE.
4. DIMENSIONS INDICATED AS "MIN." OR "MINIMUM" ARE ABSOLUTE MINIMUM DIMENSIONS AND ARE NOT TO BE DECREASED. DIMENSIONS INDICATED AS "MAX." OR "MAXIMUM" ARE ABSOLUTE MAXIMUM DIMENSIONS AND ARE NOT TO BE INCREASED.
5. ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- DS = DOWNSPOUT
FEC= FIRE EXTINGUISHER CABINET (CONFIRM LOCATION WITH LOCAL FIRE MARSHAL)
FE= WALL MOUNTED FIRE EXTINGUISHER (CONFIRM LOCATION WITH LOCAL FIRE MARSHAL)



PROVIDE EXTERIOR GRADE HOLLOW METAL DOOR AND FRAME.		PROVIDE EXTERIOR GRADE HOLLOW METAL DOOR AND FRAME.	
HARDWARE:	HEAVY DUTY HINGES (3) STOREROOM LOCKSET WEATHERSTRIPPING DRIP CAP THRESHOLD	HARDWARE:	HEAVY DUTY HINGES (3) EXIT LOCK WITH BLANK PLATE WEATHERSTRIPPING DRIP CAP THRESHOLD

2 DOOR TYPES

$$1/4" = 1'-0"$$
 **1** FLOOR PLAN
$$1/8'' = 1'-0''$$


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ISSUED: 12/20/2024
FOR CONSTRUCTION

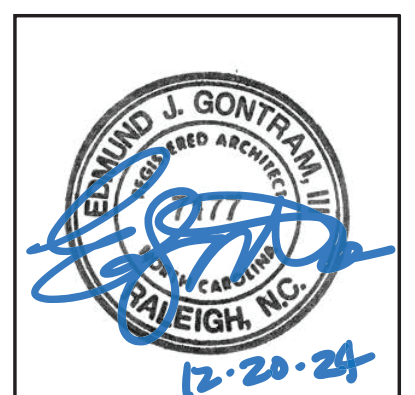
[illegible]

DRAWN BY: PJA	APPROVED: EJG
PROJECT NO.: 24066	RECORD:

CONTENTS:
FLOOR PLAN

SHEET:

A101



NEW TRANSFER STATION
for CUMBERLAND COUNTY
MSW LANDFILL
698 ANN STREET | FAYETTEVILLE NC 28301

[illegible]

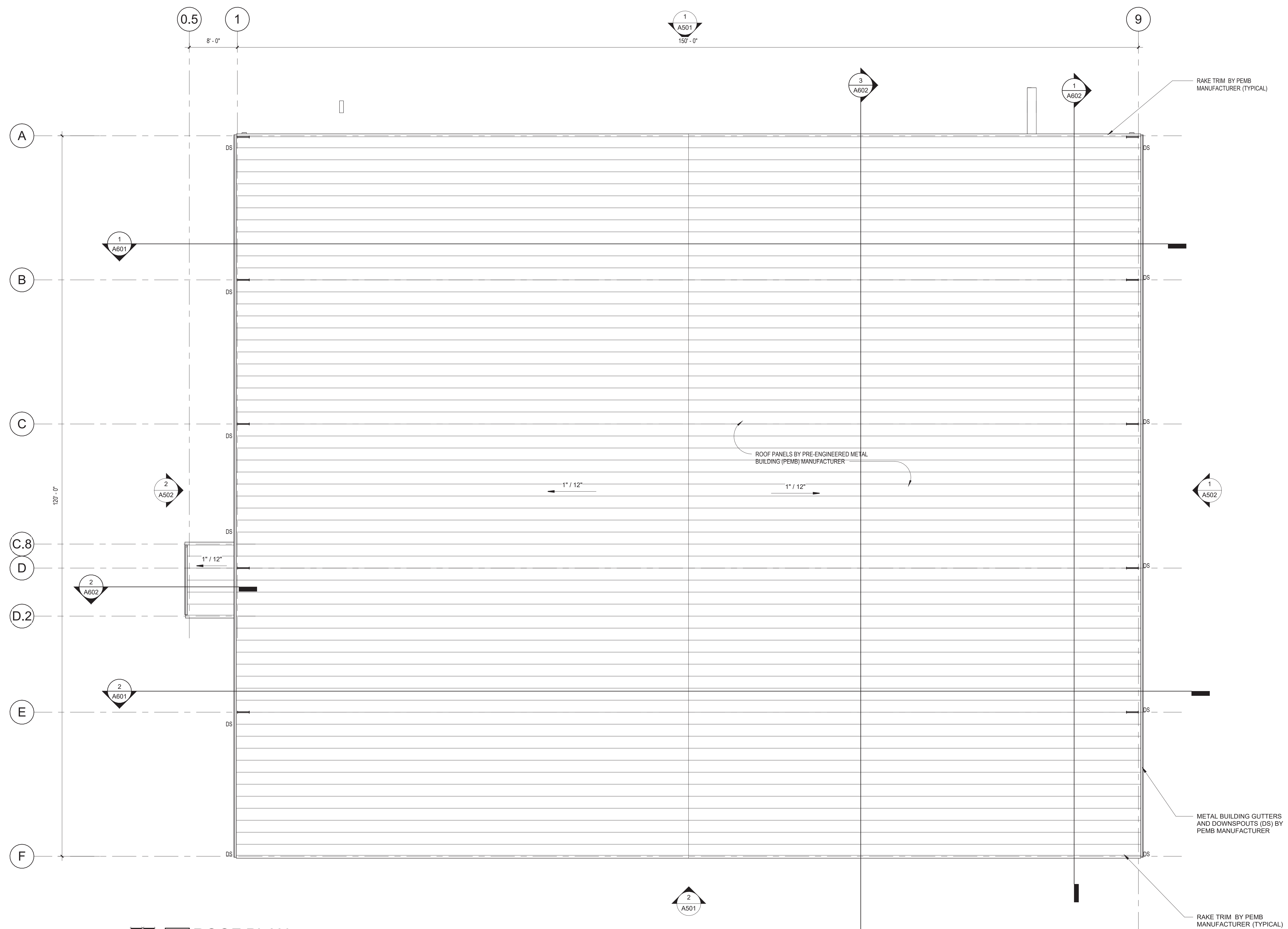
DRAWN BY: PJA	APPROVED: EJG
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PROJECT NO.:	RECORD:
24066	

CONTENTS:	
ROOF PLAN	

SHEET:

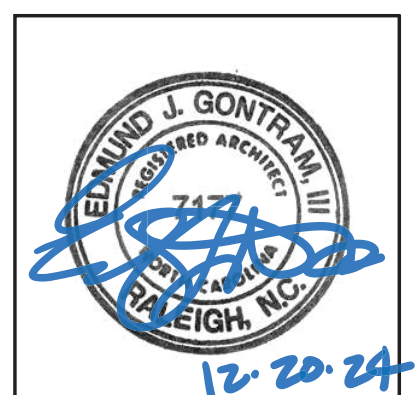
A201



1

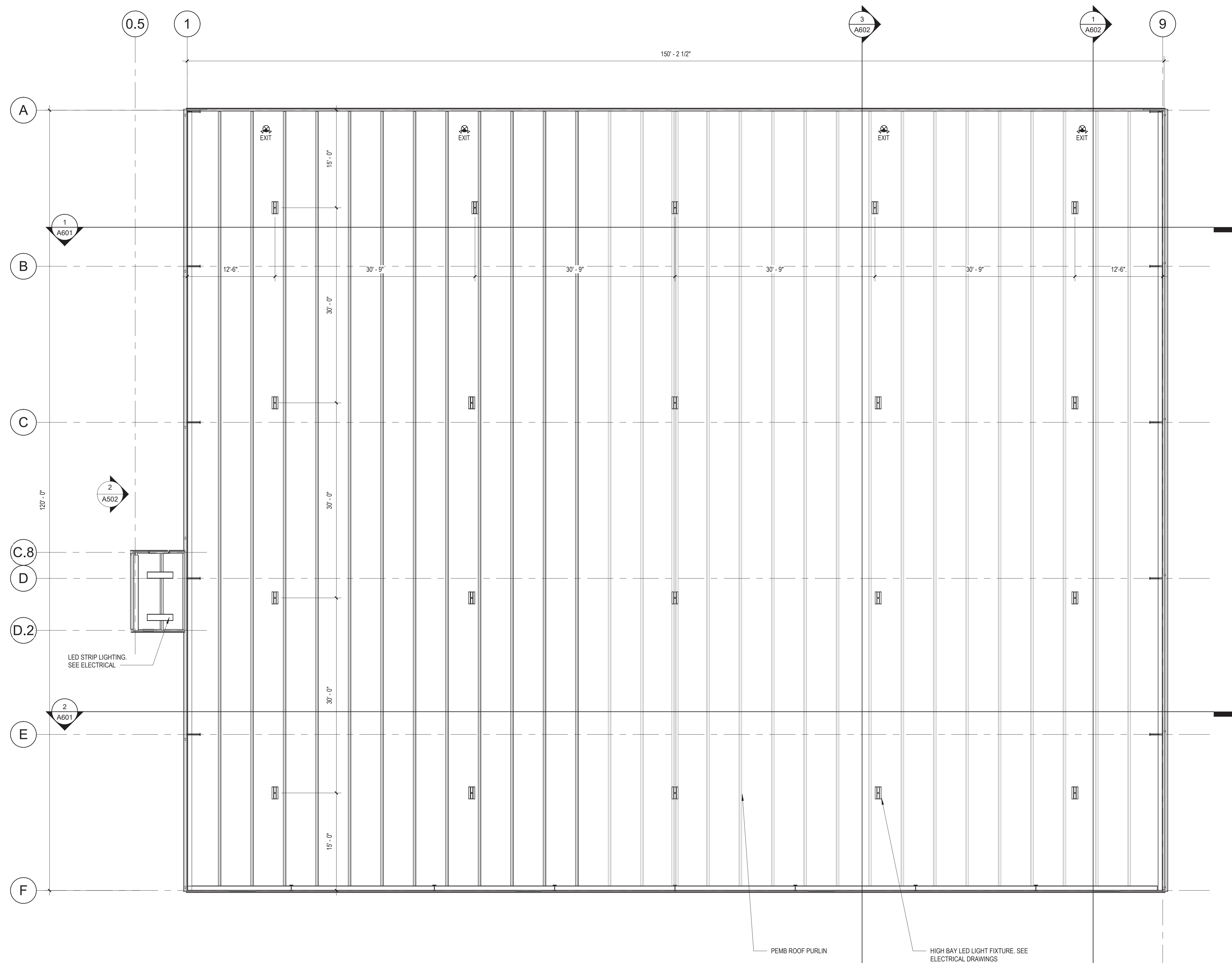
ROOF PLAN

1/8" = 1'-0"

[illegible]

SHEET:

A301



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

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PLOT DATE:
12/20/2024

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FOR CONSTRUCTION

[illegible]

DRAWN BY: PJA	APPROVED: EJG
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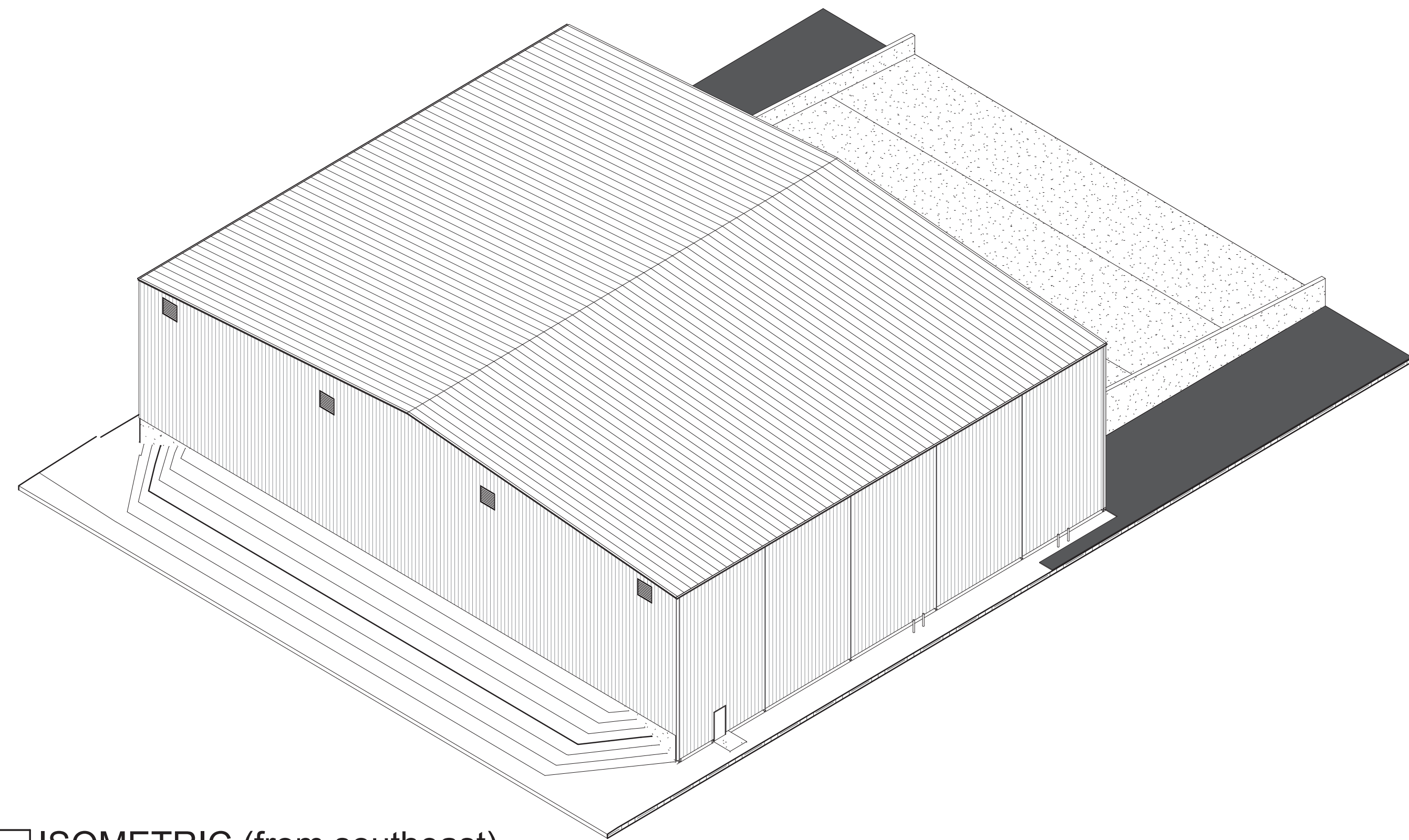
PROJECT NO.:	RECORD:
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Project No:	24066
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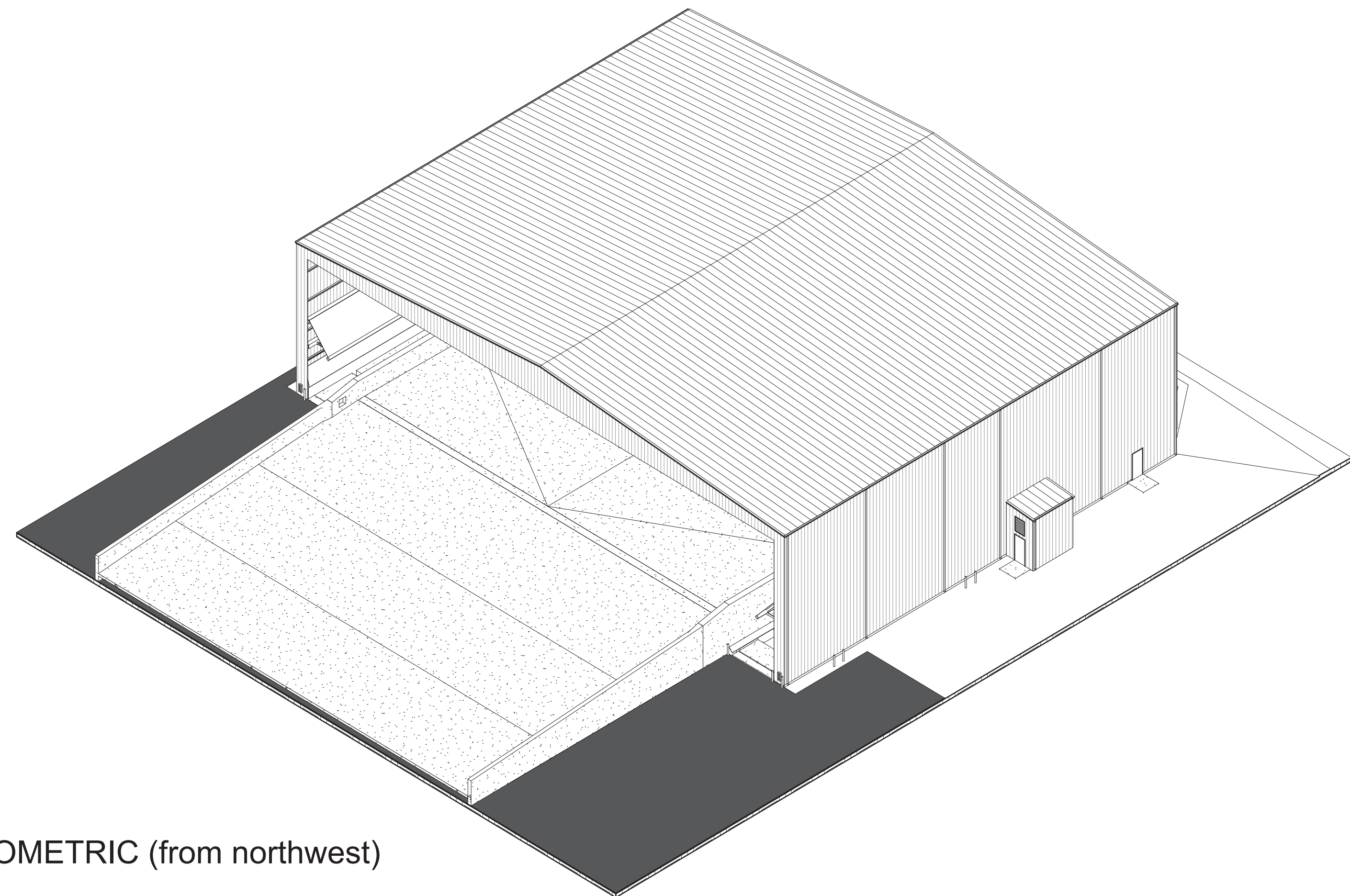
CONTENTS:	
ISOMETRICS	

SHEET:

A500



1 ISOMETRIC (from southeast)



2 ISOMETRIC (from northwest)

NOTE: COLORS AND PATTERNS LISTED ARE FOR BIDDING PURPOSES . FINAL SELECTIONS TO BE MADE BY OWNER.

KEY	MATERIAL	MANUFACTURER	COLOR SPECIFICATION
M-1	METAL WALL PANELS	TO BE DETERMINED	COLOR TO BE DETERMINED
M-2	METAL GUTTER	TO BE DETERMINED	COLOR TO BE DETERMINED
M-2A	AL DOWNSPOUTS	TO BE DETERMINED	COLOR TO BE DETERMINED
M-2A	METAL ROOF PANELS	TO BE DETERMINED	COLOR TO BE DETERMINED
P-1	EXTERIOR DOORS AND FRAMES	TO BE DETERMINED	COLOR TO BE DETERMINED
P-2	BOLLARDS AND SAFETY RAILINGS	SHERWIN WILLIAMS OR EQ.	SAFETY YELLOW



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12/20/2024		
ISSUED: 12/20/2024		
FOR CONSTRUCTION		
Rev.	Date	Description
DRAWN BY:	PJA	APPROVED: EJG
PROJECT NO.:	24066	RECORD:
CONTENTS: BUILDING ELEVATIONS		

SHEET:

A501

Architectural elevation drawing of a building facade. The drawing includes the following details and annotations:

- Grid Lines:** Vertical grid lines are labeled A, B, C, D, E, and F. Horizontal grid lines are labeled 1/A601 and 2/A601.
- Dimensions:**
 - Overall width: 120' - 0"
 - Overall height: 32' - 0"
 - Section height: 8' - 0"
- Roof and Wall Details:**
 - METAL ROOF PANELS (M-3)
 - METAL BUILDING GUTTERS (M-2) AND DOWNSPOUTS (M-2A)
 - METAL BUILDING WALL PANELS (M-1)
- Levels and Elevation:**
 - EAVE HT. 132.00
 - TIPPING FLOOR 100.00
 - PIT FLOOR 92.00
- Structural and Safety Features:**
 - FEC= FIRE EXTINGUISHER CABINET. (TYPICAL) SEE DETAIL 1/A601
 - STEEL BOLLARD (PAINTED P-2). TYPICAL
 - CONCRETE RETAINING WALL
- Other Annotations:**
 - Section cut symbols (1/A601 and 2/A601) with arrows indicating the direction of the section.
 - A dashed line indicating the TIPPING FLOOR level.
 - A dashed line indicating the PIT FLOOR level.

PAINTED HOLLOW METAL
DOOR AND FRAME ———



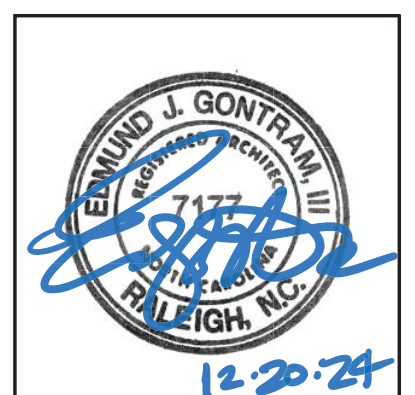
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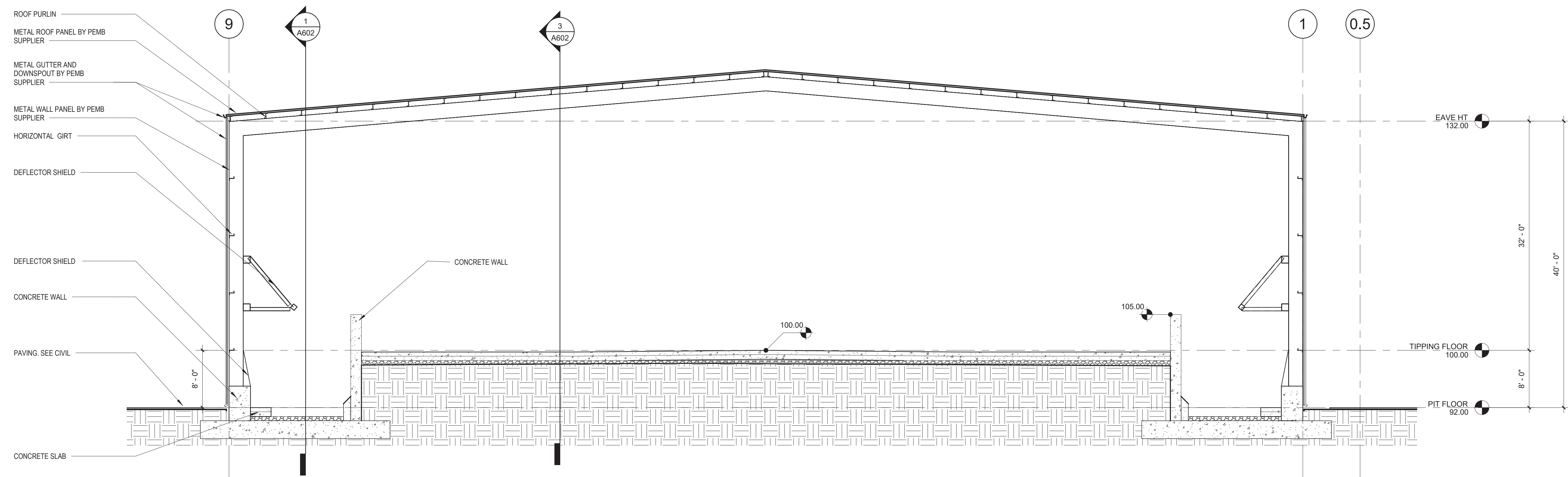
DRAWN BY: PJA	APPROVED: EJG
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PROJECT NO.: 24066	RECORD:
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CONTENTS:	
BUILDING SECTIONS	

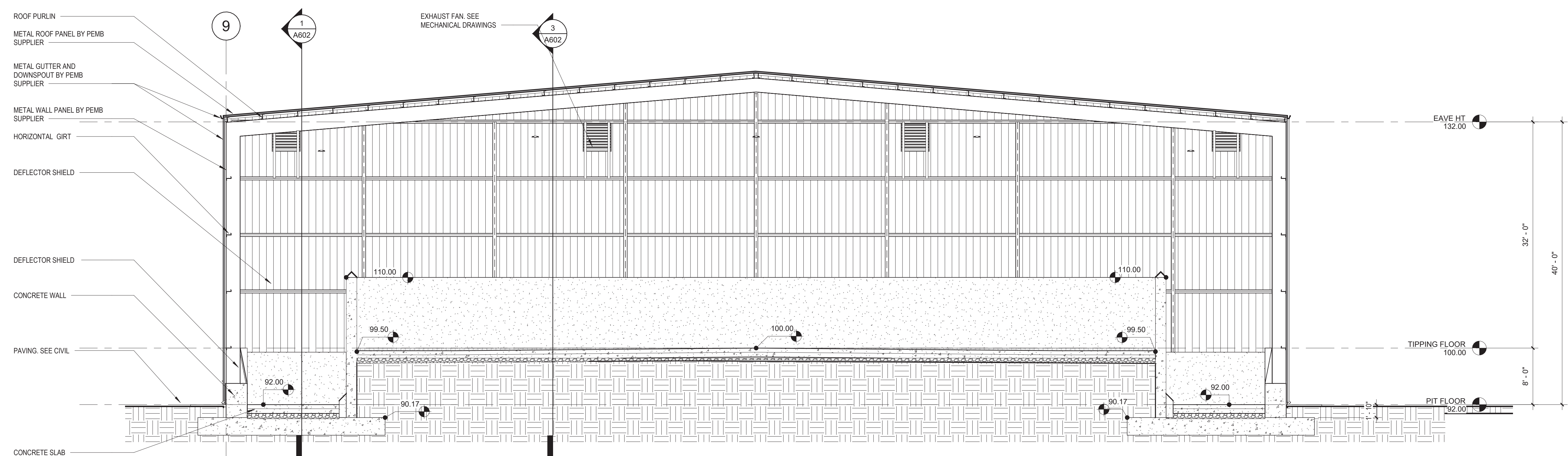
SHEET:

A601



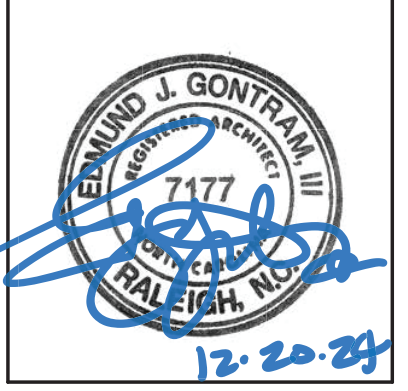
1 BUILDING SECTION (EAST-WEST)
1/8" = 1'-0"

NOTE: NO INSULATION IN TRANSFER STATION



2 BUILDING SECTION (EAST-WEST)
1/8" = 1'-0"

3 BUILDING SECTION (NORTH-SOUTH)
1/8" = 1'-0"



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PROJECT NO.: 24066	RECORD:

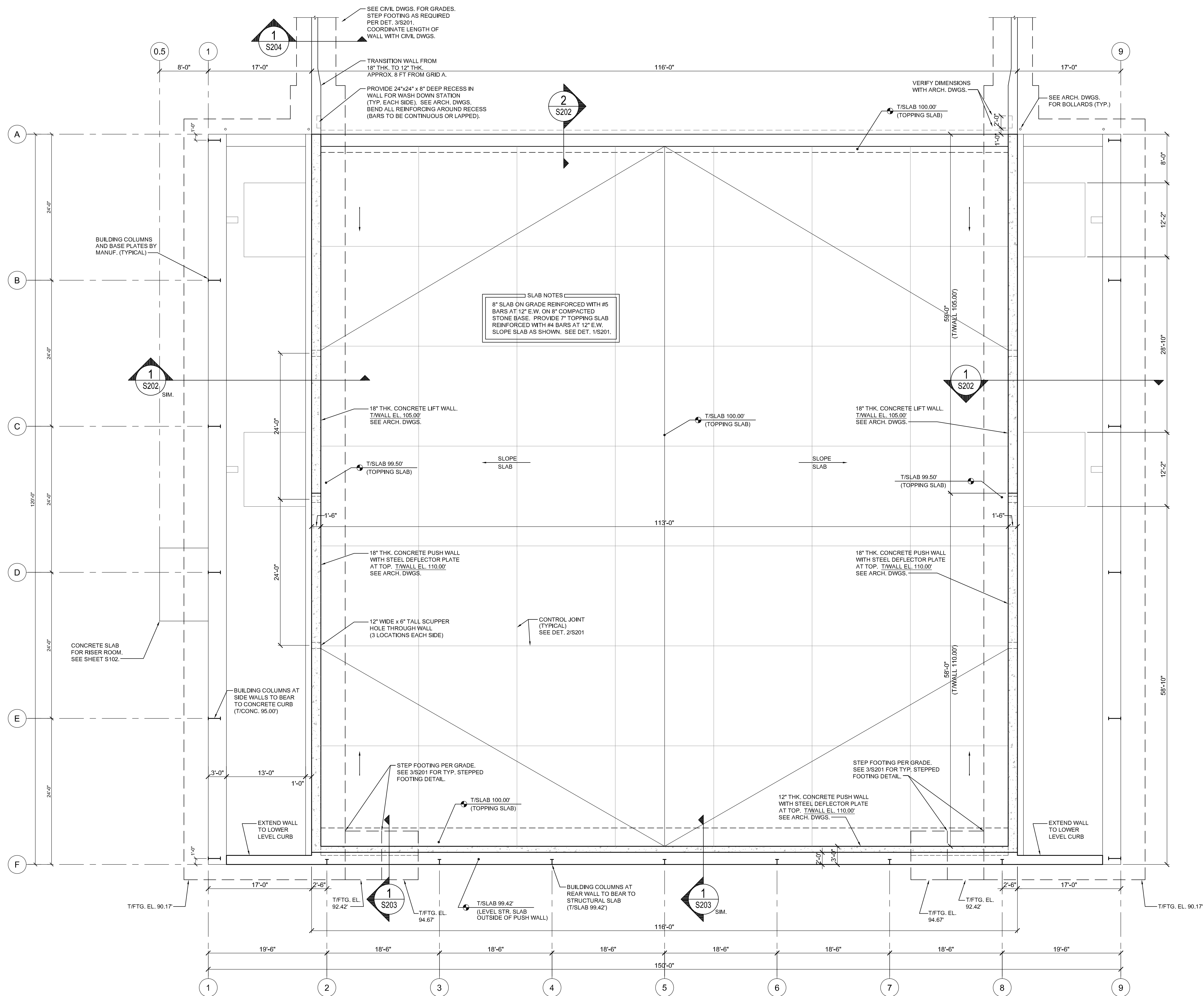
CONTENTS:	
DETAILS	

SHEET:

A801



SHEET:



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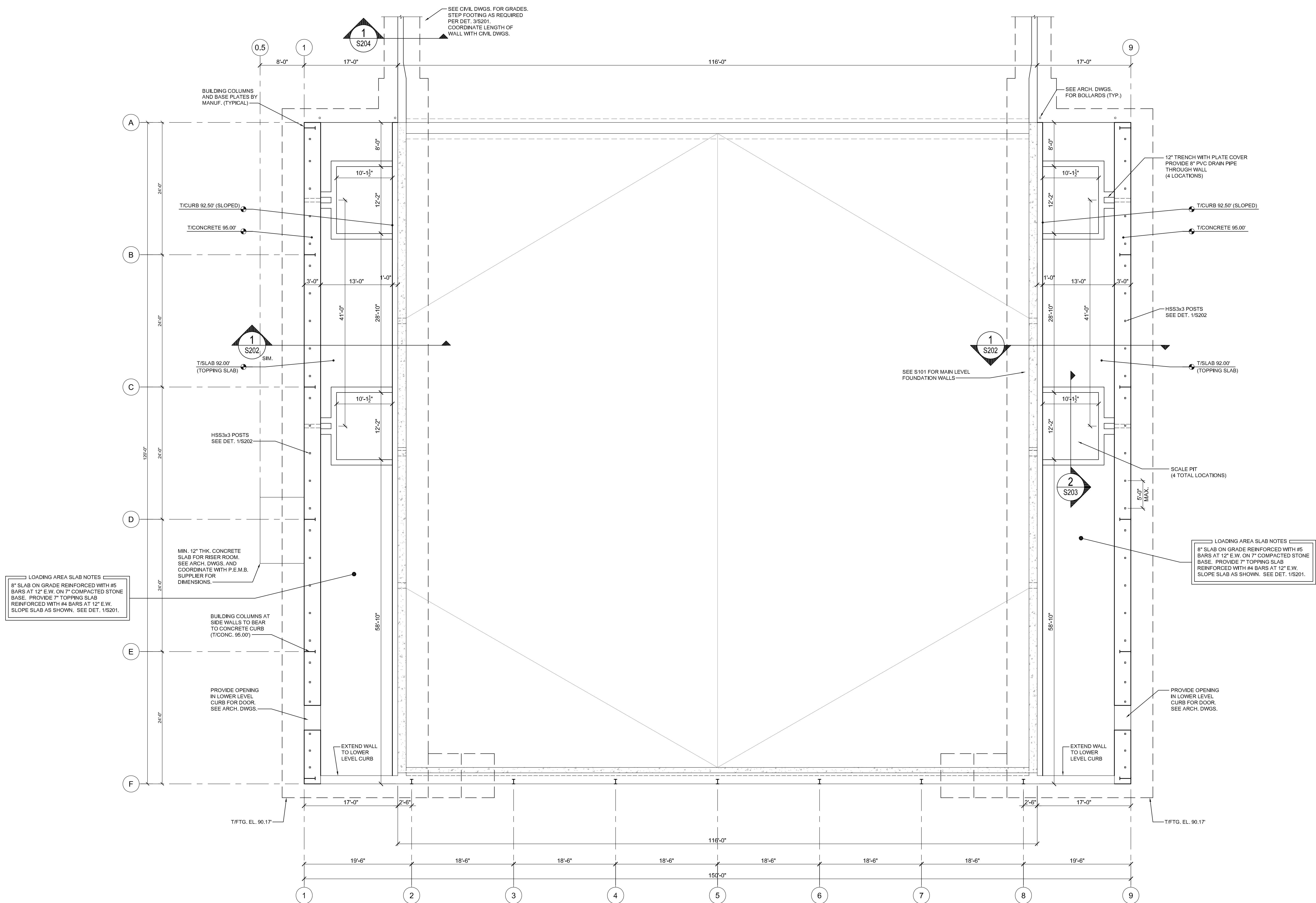
DRAWN BY:
BR
APPROVED:
JB/SS/EG

PROJECT NO.:
C241004
RECORD:

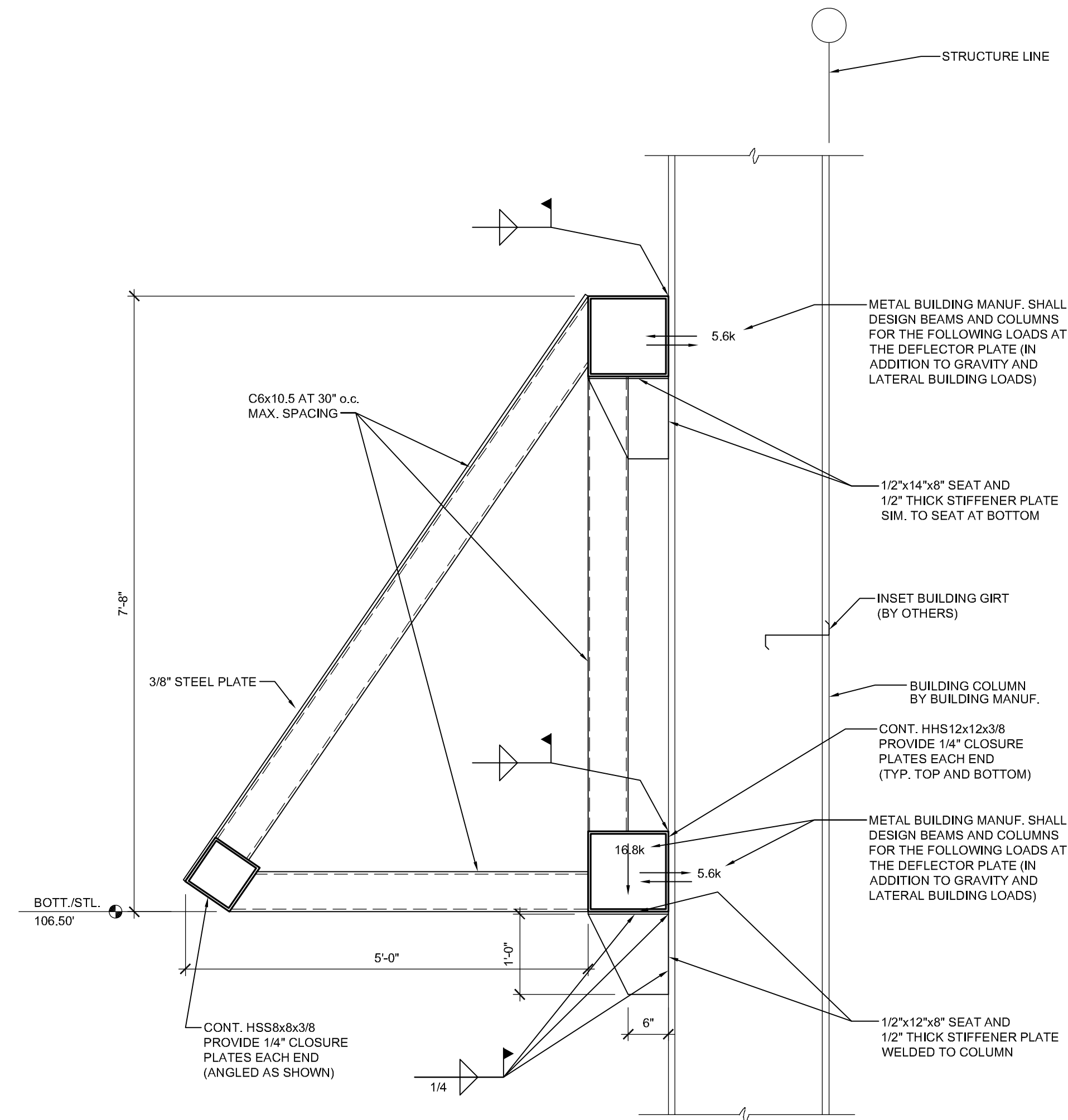
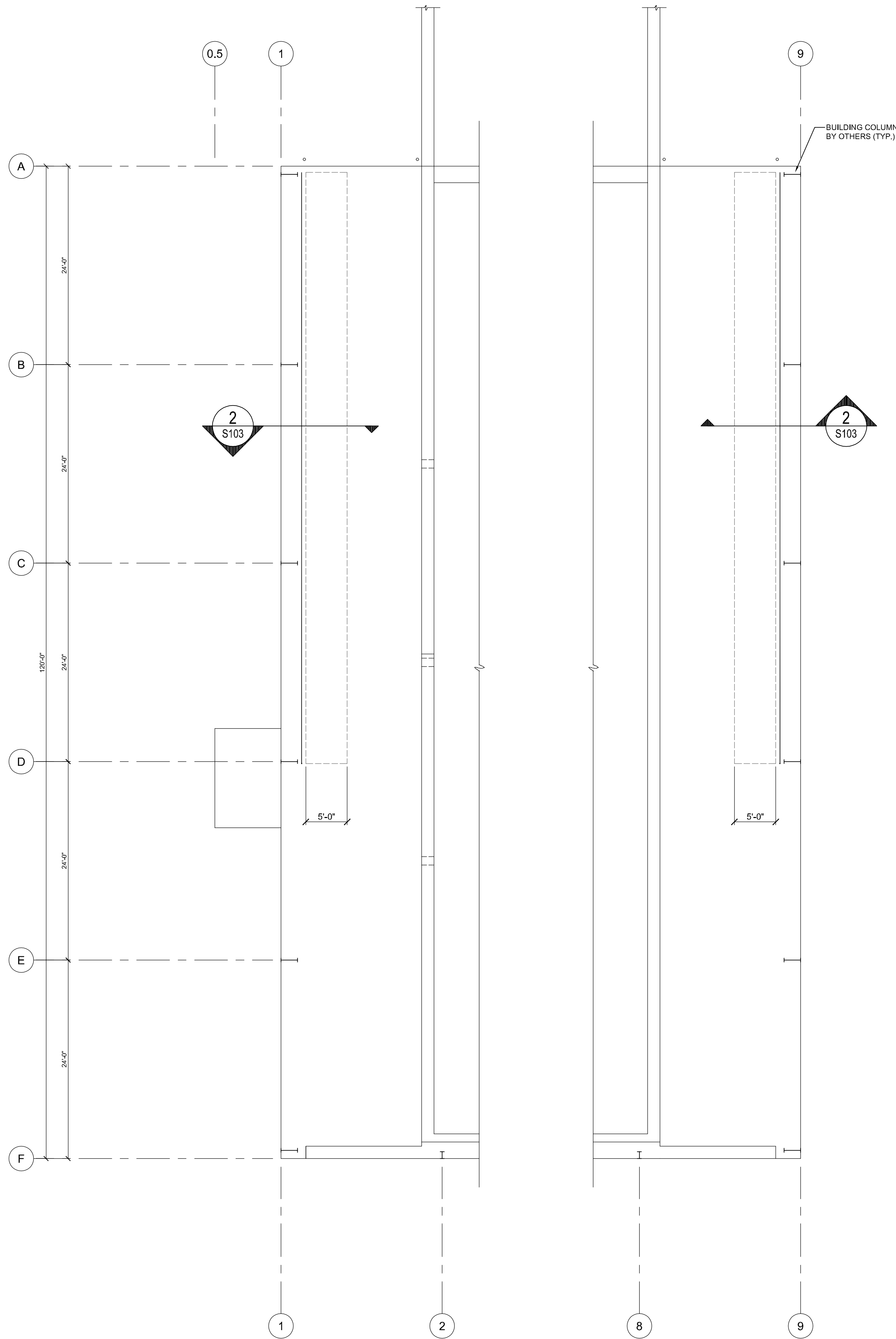
CONTENTS:
MAIN LEVEL
FOUNDATION PLAN

SHEET:

S101



1 LOWER LEVEL FOUNDATION PLAN
S102 1/8" = 1'-0"



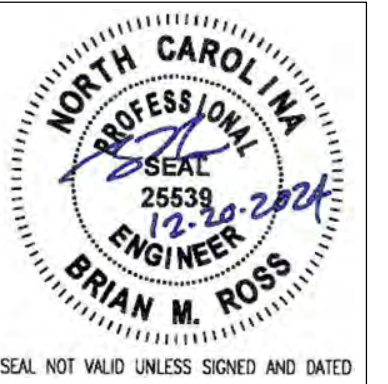
1 DEFLECTOR FRAMING PLAN
S103 1/8" = 1'-0" SEE 2/S103 FOR STEEL ELEVATIONS

2 SECTION - DEFLECTOR
S103 3/4" = 1'-0"



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BR
PROJECT NO.:
C241004

APPROVED:
JB/SS/EG
RECORD:

CONTENTS:
DEFLECTOR
FRAMING PLAN
AND DETAILS

SHEET:

S103

STRUCTURAL NOTES

I. GENERAL

- DESIGN CODES
NORTH CAROLINA BUILDING CODE, 2018 EDITION
(AMENDED 2015 INTERNATIONAL BUILDING CODE)

ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
(ACI 318-14)

AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN
NINTH EDITION

ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER
STRUCTURES
- DESIGN LOADS

RISK CATEGORY II

LIVE LOADS: FIRST FLOOR: 100 PSF
ROOF: 20 PSF

ULTIMATE DESIGN WIND SPEED: 122 MPH

GROUND SNOW LOAD 10 PSF

SEISMIC DESIGN CATEGORY C
SITE CLASS D
Ss = 0.234
S1 = 0.100

SEE PRE-ENGINEERING METAL BUILDING DRAWINGS BY OTHERS FOR FULL
STRUCTURAL DESIGN LOAD SUMMARY USED FOR BUILDING DESIGN.
- SEE PLAN FOR ALL ELEVATIONS. SEE ARCHITECTURAL AND CIVIL DRAWINGS
FOR ADDITIONAL INFORMATION.
- BUILDING DESIGN AND MAXIMUM FOUNDATION REACTIONS SHALL BE PROVIDED
BY THE BUILDING MANUFACTURER. FOUNDATION DESIGN IS BASED ON MAXIMUM
AND MINIMUM LOADING CONDITIONS PROVIDED BY THE BUILDING DESIGNER.
FINAL SEALED FOUNDATION REACTIONS SHALL BE PROVIDED FOR REVIEW PRIOR
TO CONSTRUCTION.
- COLUMN AND BASE PLATE SIZES AND LOCATIONS ARE TO BE PROVIDED BY THE
BUILDING DESIGNER.
- ANCHOR BOLT DESIGN IS TO BE PROVIDED BY BUILDING DESIGNER. ANCHOR
BOLT EMBEDMENT ONLY IS PROVIDED ON DRAWING S202.
- DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL
PRIOR TO CONSTRUCTION, INCLUDING CONCRETE MIX DESIGN, REBAR,
PRE-ENGINEERED METAL BUILDING, STRUCTURAL STEEL.
- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES
NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY.
- ROSS LINDEN ENGINEERS PC ASSUMES NO LIABILITY FOR CHANGES OR
MODIFICATIONS MADE TO THESE DRAWINGS BY OTHERS, OR FOR CONSTRUCTION
METHODS, OR FOR ANY DEVIATION FROM THESE DRAWINGS.

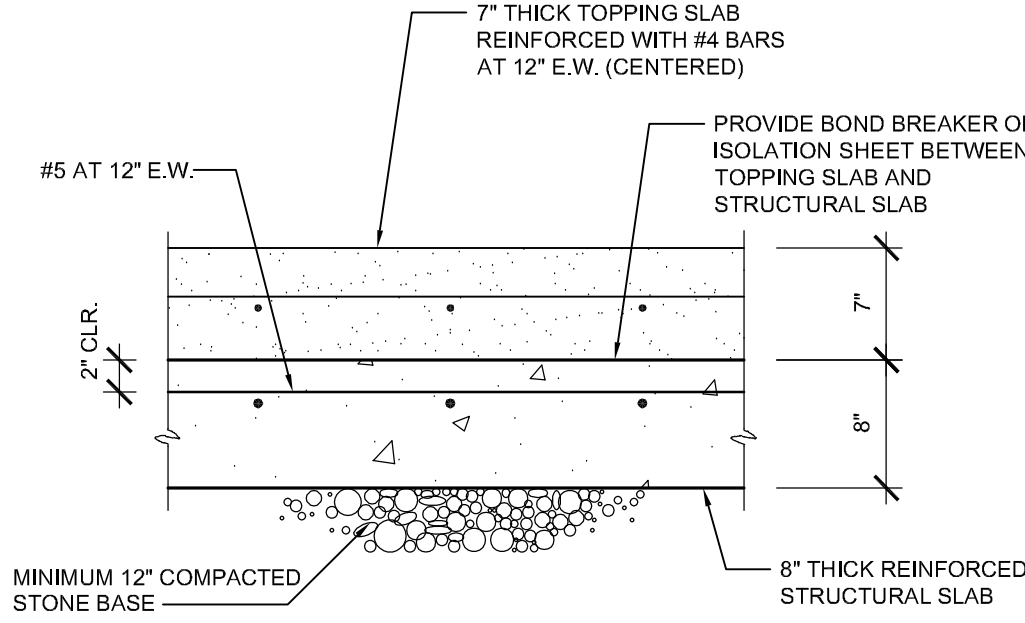
II. CONCRETE

- UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING
STRENGTH AND SLUMP REQUIREMENTS:
4,500 PSI 28-DAY COMPRESSIVE STRENGTH, MAX. 3" SLUMP.

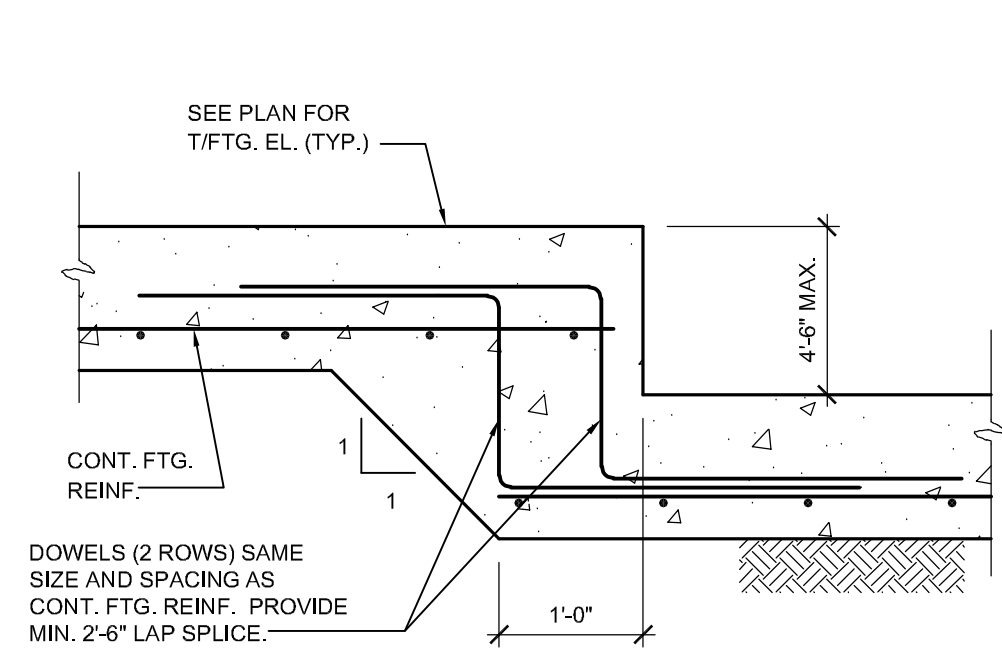
A HIGH RANGE WATER REDUCER (HRWR) IS REQUIRED FOR ALL SLABS AND
WALLS. SLUMP GIVEN IS BEFORE THE ADDITION OF THE HRWR. SLUMP AT THE
POINT OF PLACEMENT (AFTER ADDITION OF HRWR) WILL BE HIGHER
(APPROXIMATELY 6" - 7"). THE HRWR SHALL BE SELECTED TO INCREASE
CONCRETE WORKABILITY WITHOUT SEGREGATION OF THE MIXTURE. ALL
ADMIXTURES USED SHALL BE COMPATIBLE.
- CONCRETE MIX SHALL BE PROPORTIONED TO MINIMIZE WATER CONTENT,
DRYING SHRINKAGE CRACKING, AND CURLING. AGGREGATE SHALL BE
PROPERLY GRADED. THE LARGEST SIZE OF PROPERLY GRADED AGGREGATE
AVAILABLE SHALL BE USED. TYPE I OR TYPE II PORTLAND CEMENT SHALL BE
USED. A SHRINKAGE REDUCING ADMIXTURE SHALL BE USED (SIMILAR TO SIKKA
CONTROL-40 OR EQUIVALENT), WITH DOSAGE RATES AS RECOMMENDED BY THE
MANUFACTURER.
- THE BUILDING SLAB SHALL BE MOIST CURED PER ACI 301. ALL OTHER
CONCRETE SHALL BE MOIST CURED PER ACI 301 OR CURED WITH AN APPROVED
CURING COMPOUND. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
- UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE NEW BILLET
STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.
- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF
REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE
FOR DETAILING REINFORCED CONCRETE STRUCTURES. (ACI 315)
- ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES PER ACI 318-08,
UNLESS OTHERWISE SHOWN.
- ANCHOR BOLTS TO BE ASTM A36 OR A307.
- CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR
DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE
STRUCTURAL DRAWINGS.
- ALL SPREAD FOOTINGS BEARING ON NATIVE SOIL OR STRUCTURAL FILL ARE
DESIGNED FOR AN ASSUMED ALLOWABLE BEARING PRESSURE OF 2,500 PSF. A
GEOTECHNICAL REPORT BY OTHERS SHALL BE PROVIDED BY THE OWNER TO
CONFIRM THE ASSUMED ALLOWABLE BEARING PRESSURE. THE SITE SHALL BE
PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE
GEOTECHNICAL REPORT. A GEOTECHNICAL REPRESENTATIVE SHALL INSPECT
ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES
- PROVIDE TWO (2) #5 x 4'-0" LONG DIAGONAL BARS IN TOP FACE OF ALL SLABS
(1" CLEAR) AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND
RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE
WORK SITE.
- CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL MECHANICAL
AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH THE MECHANICAL AND
ELECTRICAL DETAILS AND SHOP DRAWINGS BY OTHERS. IT SHALL BE THE
RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES
FOR PROPER DISTRIBUTION FOR ALL UTILITIES THROUGHOUT THE BUILDING.
- ALL DOWELS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING
CONCRETE SHALL BE DONE WITH AN EPOXY GROUT. DRILL HOLE WITH
DIAMETER 1/8" LARGER THAN DOWEL OR AS RECOMMENDED BY GROUT
SUPPLIER. USE HIT-RE 500 VS BY HILTI OR APPROVED EQUAL.
- CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4" x 45
DEGREES CHAMFER, UNLESS OTHERWISE NOTED.
- UNLESS NOTED OTHERWISE, WATERSTOPS SHALL BE A PREFORMED
EXPANDABLE HYDROPHILIC WATERSTOP. SELECT ONE OF THE FOLLOWING AND
INSTALL PER MANUFACTURER'S RECOMMENDATIONS:
MC-2010M BY ADEKA ULTRA SEAL WITH P-201 PASTE.
HYDROTITE CJ-0725 BY GREENSTREAK WITH LEAKMASTER PASTE.

III. STRUCTURAL STEEL

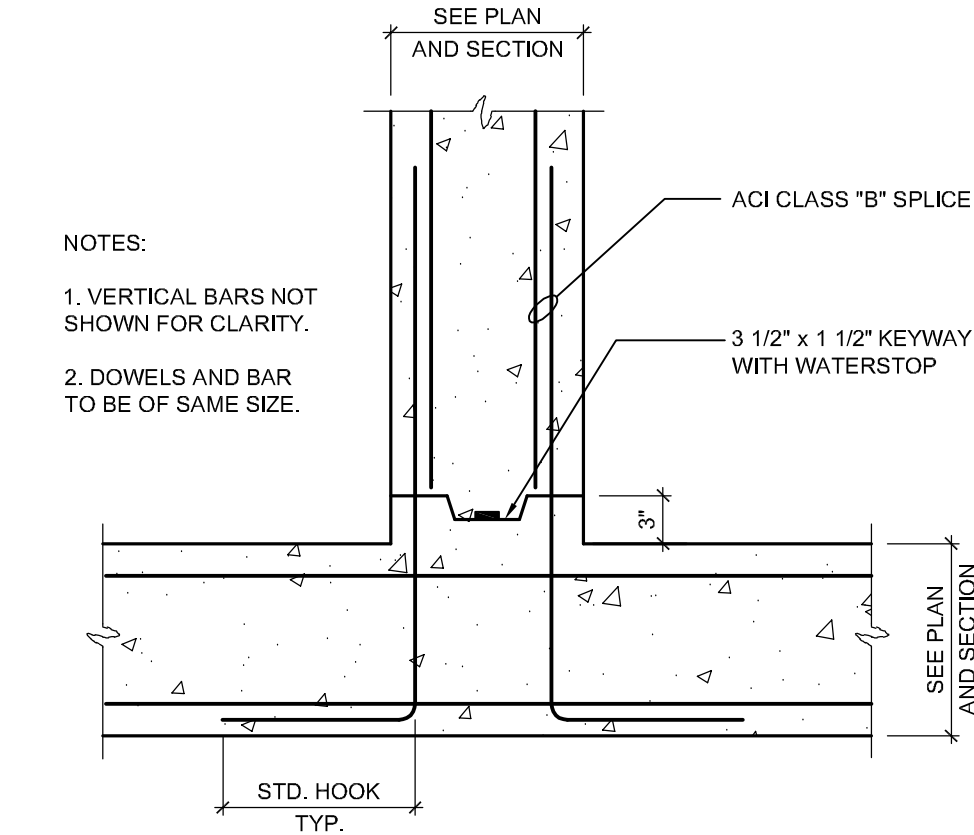
- ALL STRUCTURAL STEEL WIDE FLANGE BEAMS AND COLUMNS, UNLESS NOTED,
SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 OR ASTM A572, GRADE
50. ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36. TUBES SHALL
CONFORM TO ASTM A500, GRADE B.
- ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, UNLESS
OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC
SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.
- UNLESS OTHERWISE NOTED, ALL SHOP CONNECTIONS SHALL BE MADE BY
WELDING OR HIGH STRENGTH BOLTING. (3/4" DIAMETER BOLTS, MINIMUM)
- WELDS SHALL BE MADE WITH E-70XX ELECTRODES BY CERTIFIED WELDERS.
- ALL COLUMN ANCHOR BOLT HOLES TO BE OVERSIZED IN ACCORDANCE WITH
RECOMMENDATIONS OF "AISC" MANUAL FOR "DETAILING FOR STEEL
CONSTRUCTION."
- CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT
WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND
FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND
THEREFORE REQUIRES ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE
COMPLETION.



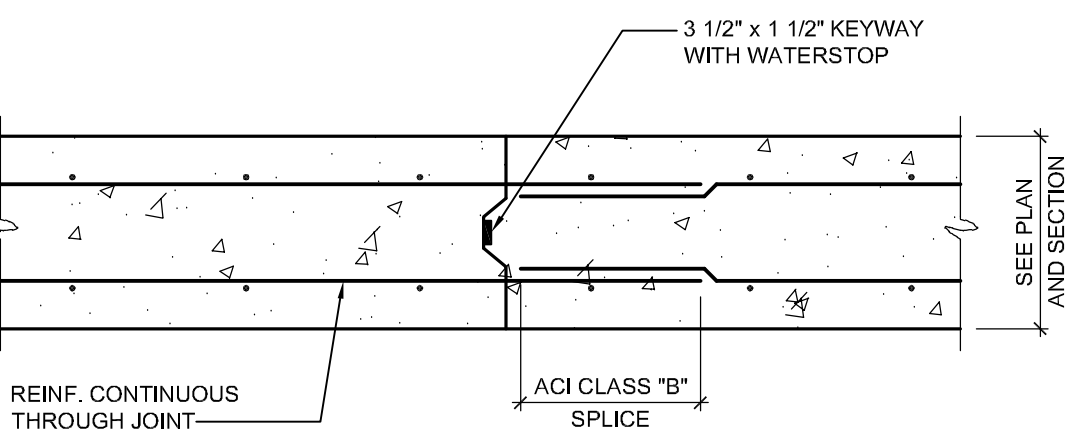
1 TYP. SLAB DETAIL
S201 1 1/2" = 1'-0" TIPPING FLOOR



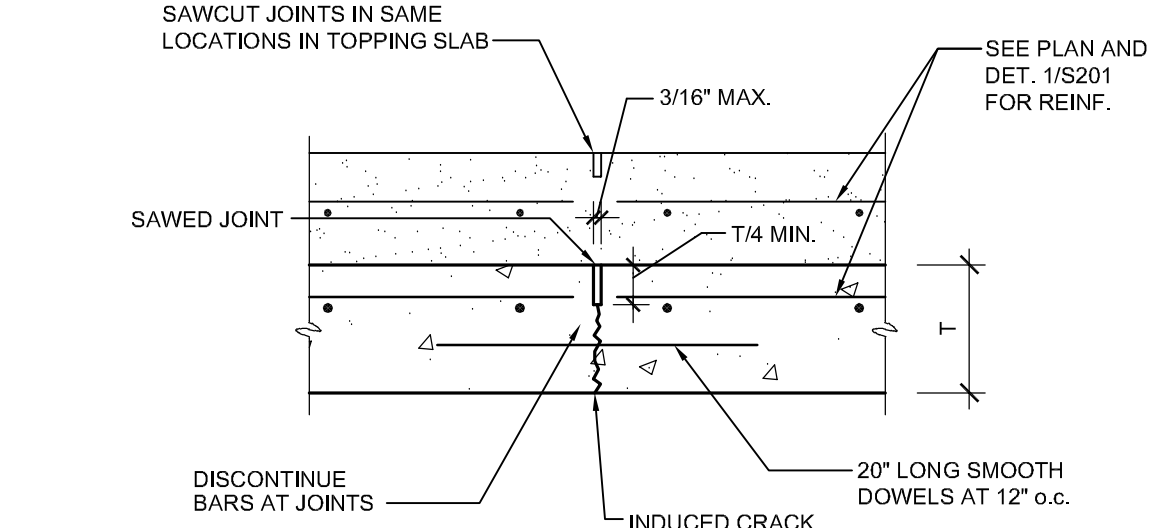
3 DETAIL - TYP. STEPPED FOOTING
S201 3/4" = 1'-0"



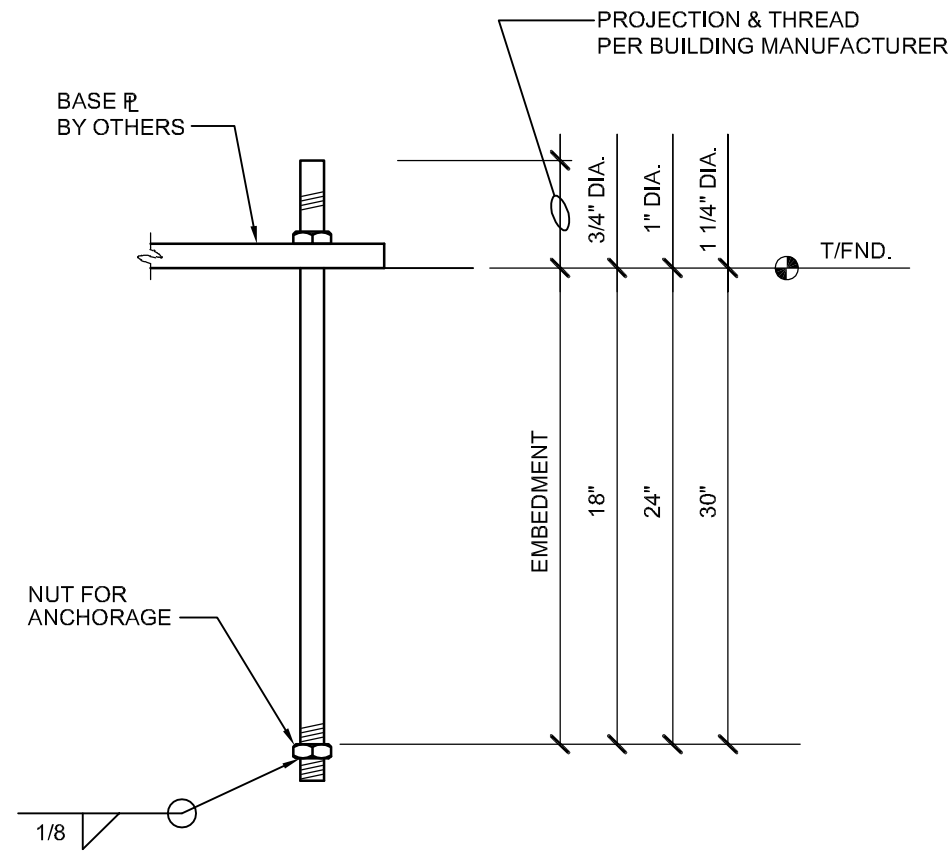
5 TYPICAL WALL INTERSECTION
S201 1/2" = 1'-0"



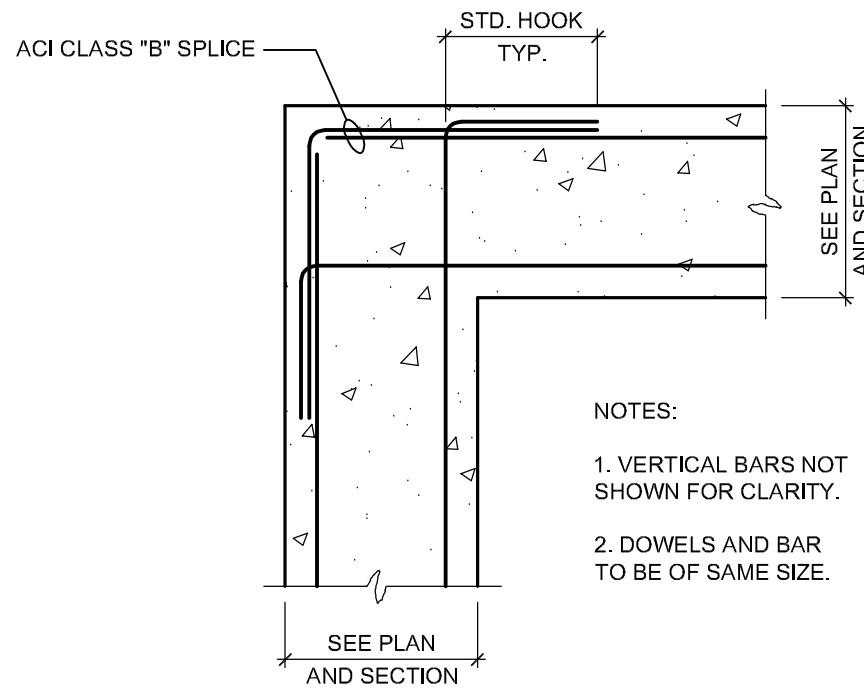
7 TYP. WALL CONSTRUCTION JOINT
S201 1/2" = 1'-0"



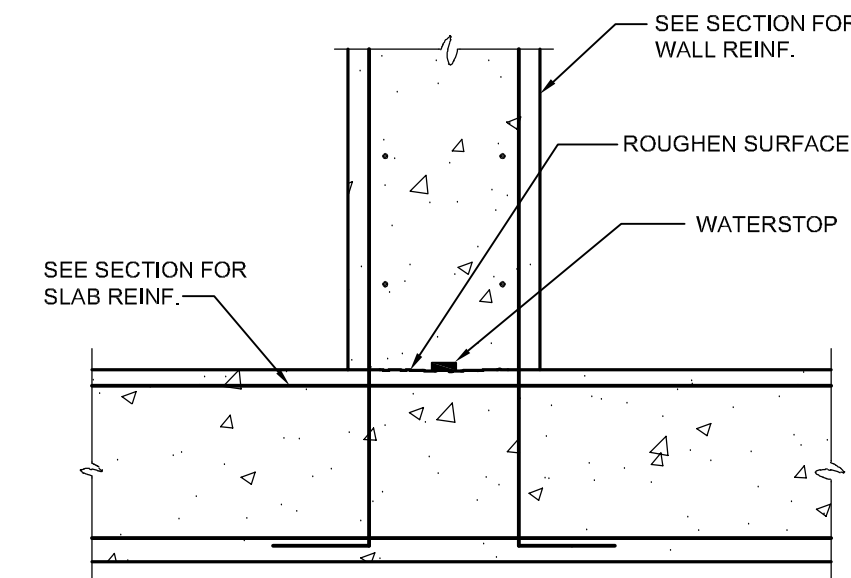
2 DETAIL - TYP. SLAB CONTROL JOINT
S201 1 1/2" = 1'-0"



4 TYP. ANCHOR BOLT DETAIL
S201 NO SCALE



6 TYPICAL WALL CORNER
S201 1/2" = 1'-0"

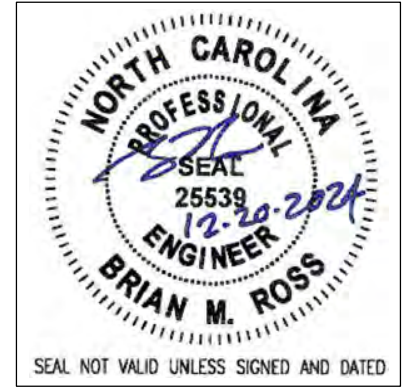


8 TYP. WALL BASE DETAIL
S201 1/2" = 1'-0"



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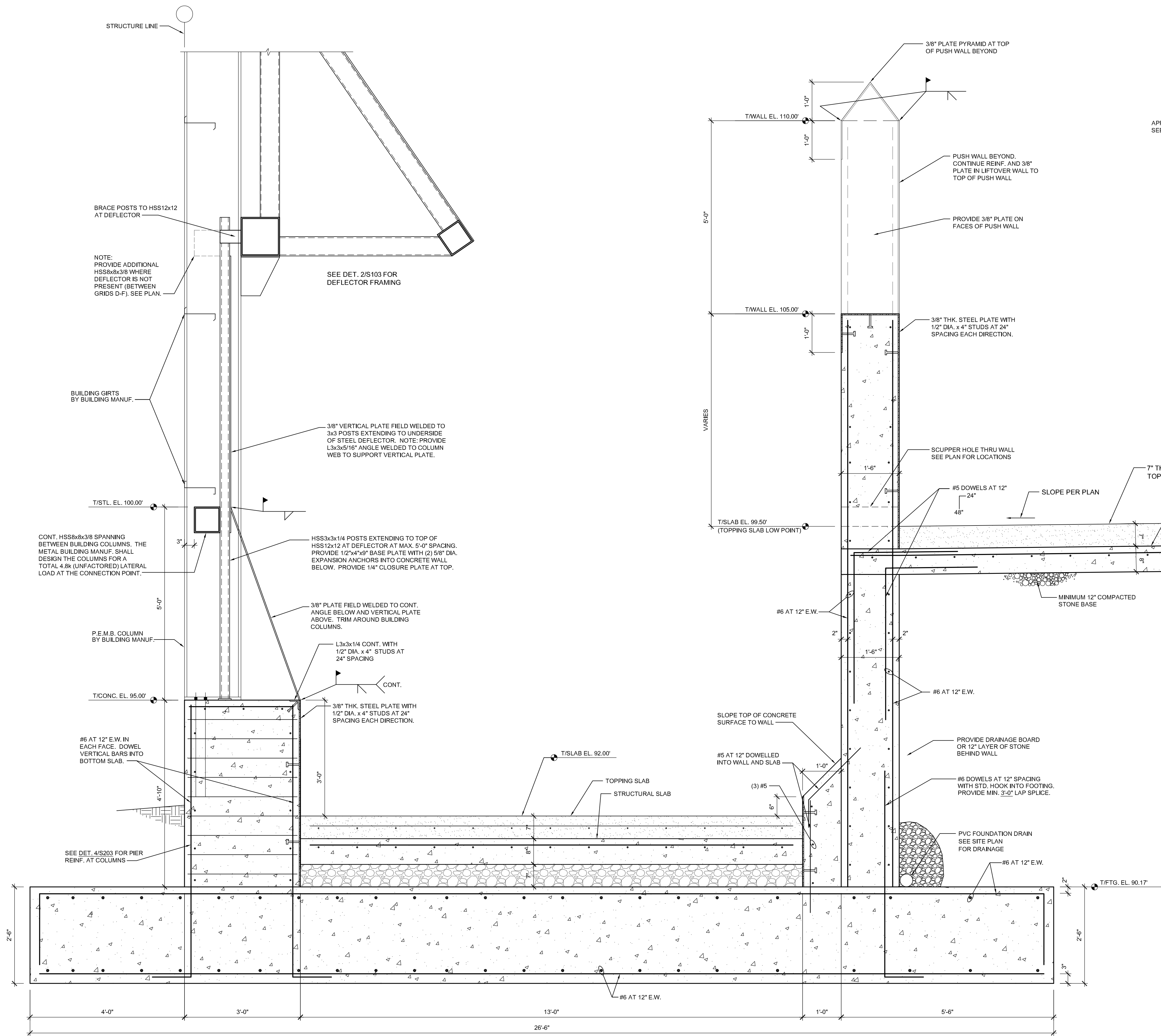


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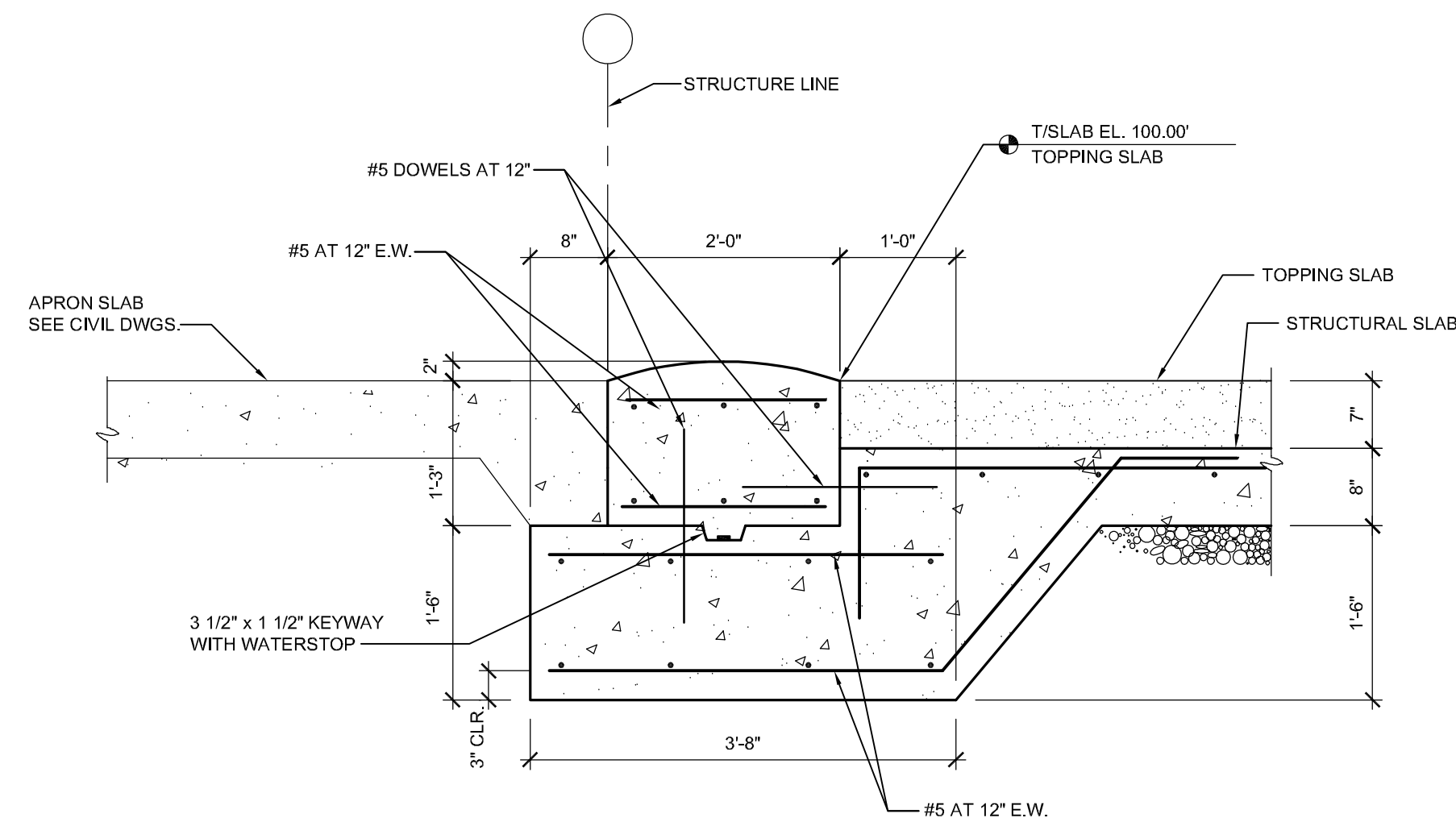
NEW TRANSFER STATION
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ANN STREET MSW LANDFILL
FAYETTEVILLE, NC

PLOT DATE: 12/20/2024	
ISSUED: 12/20/2024 FOR PERMIT	
DRAWN BY: BR	APPROVED: JB/SS/EG
PROJECT NO.: C241004	RECORD:
CONTENTS: STRUCTURAL NOTES AND DETAILS	

SHEET:
S201



1 SECTION - LOWER LEVEL FOUNDATION
S202 3/4" = 1'-0"

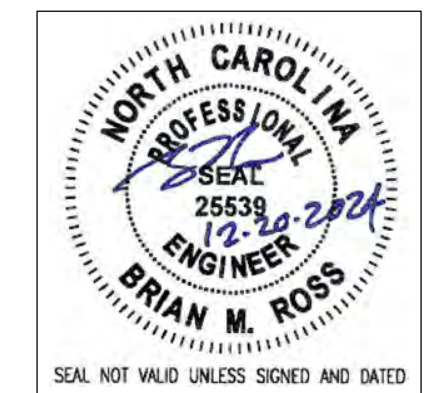


2 SECTION AT TIPPING FLOOR WATER DEFLECTOR
S202 3/4" = 1'-0" ENTRY INTO BUILDING



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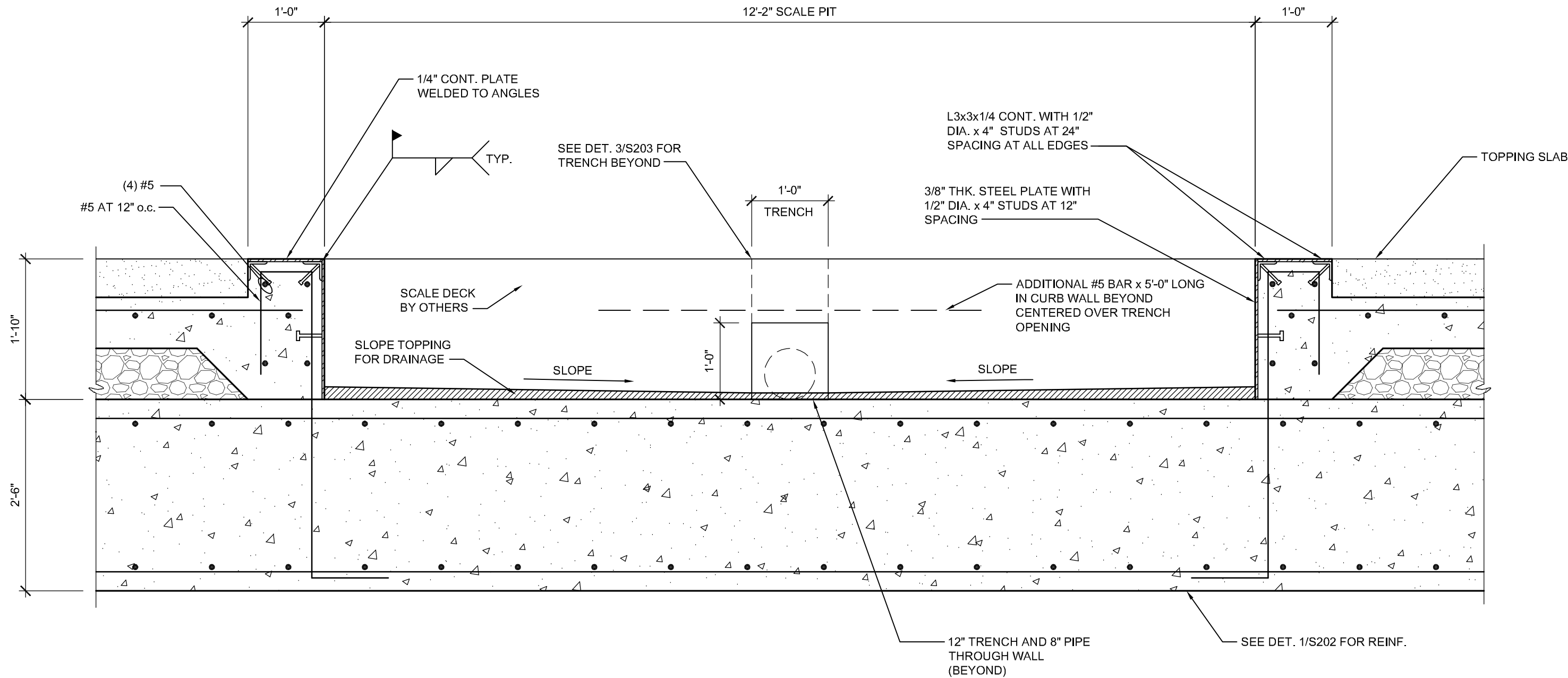
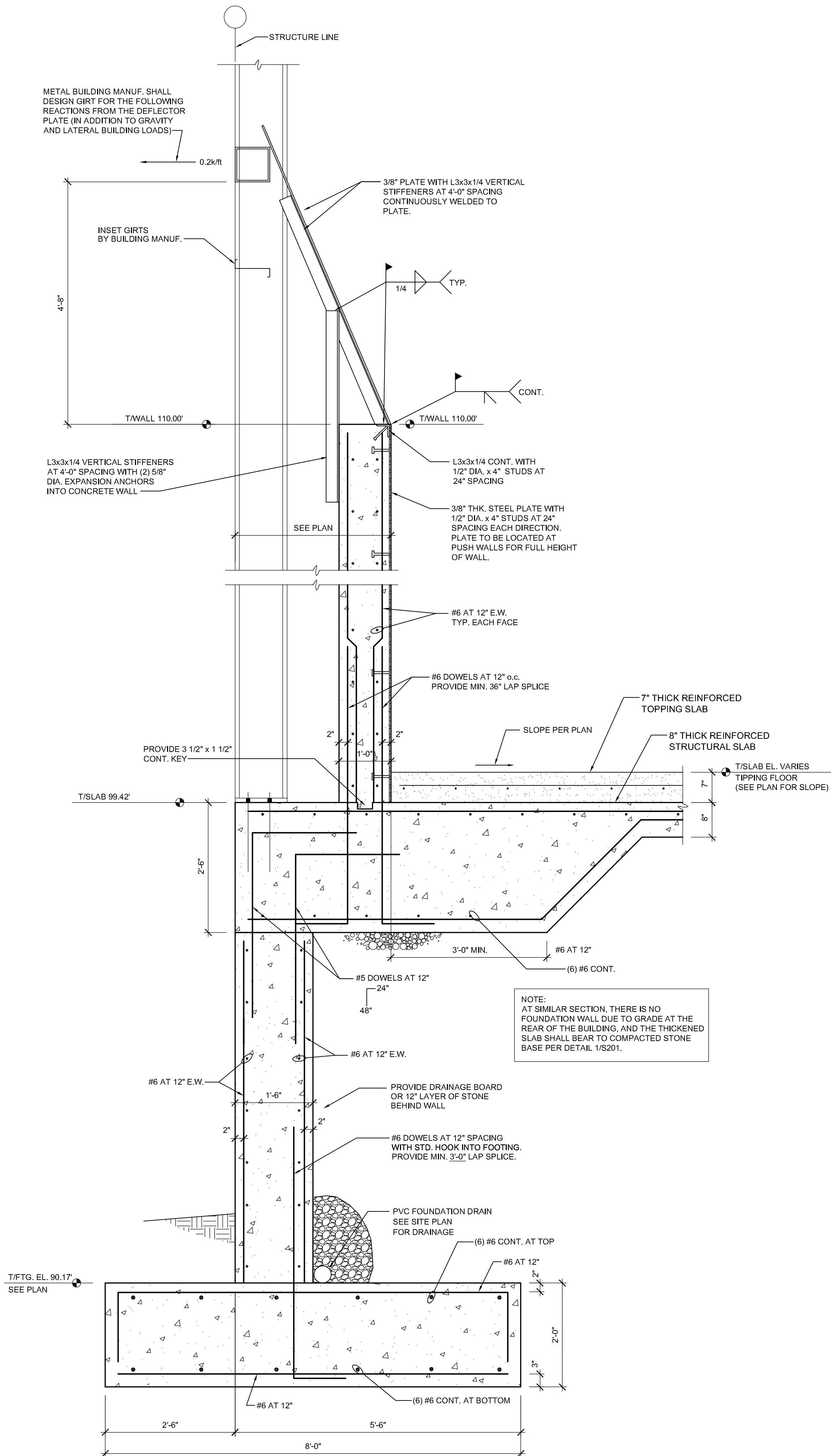
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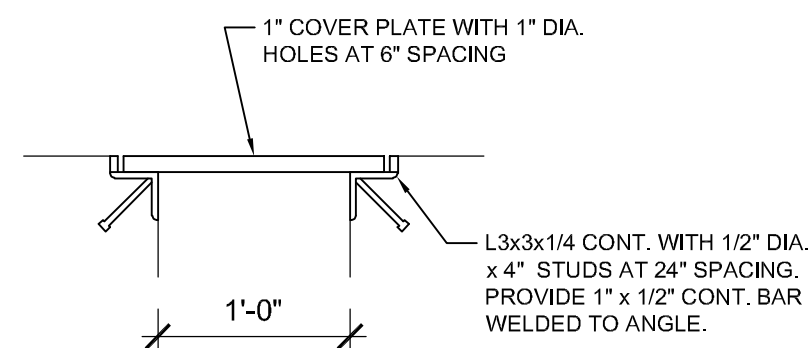
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CONTENTS:
SECTIONS AND
DETAILS
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JB/SS/EG
RECORD:

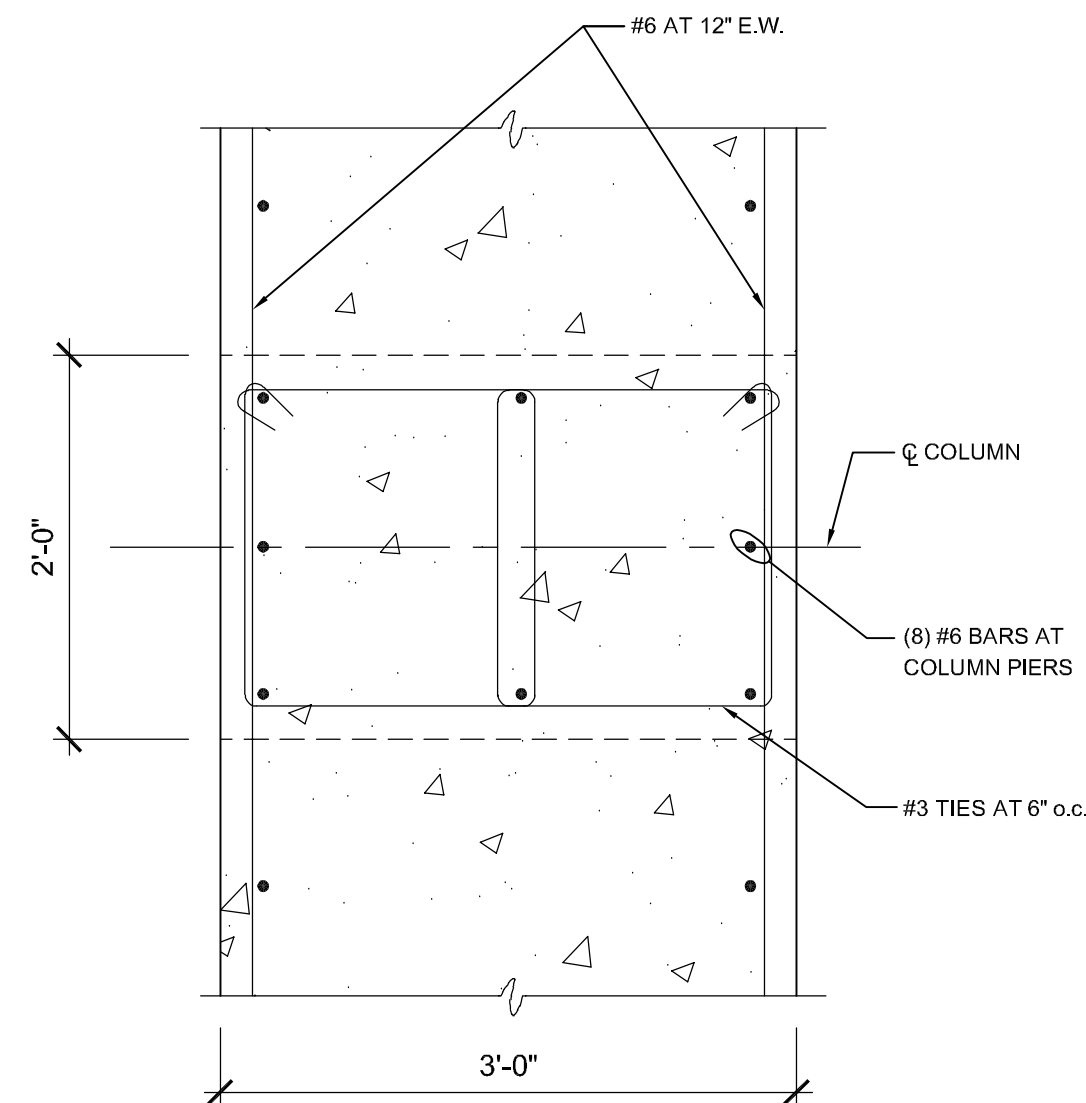
SHEET:
S202



2 SECTION - SCALE PIT
S203 3/4" = 1'-0"



3 TRENCH DETAIL
S203 1" = 1'-0"



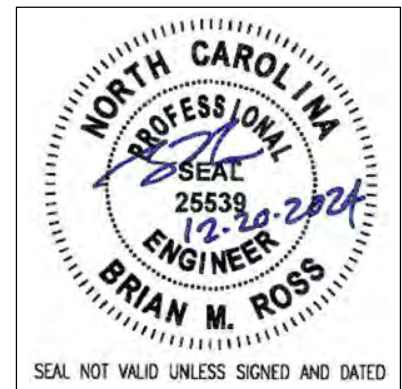
4 DETAIL - REINF. AT COLUMN PIER
S203 1" = 1'-0"



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NEW TRANSFER STATION
for CUMBERLAND COUNTY
ANN STREET MSW LANDFILL
FAYETTEVILLE, NC

PLOT DATE:
12/20/2024
ISSUED:
12/20/2024
FOR PERMIT

DRAWN BY:
BR

APPROVED:
JB/SS/EG

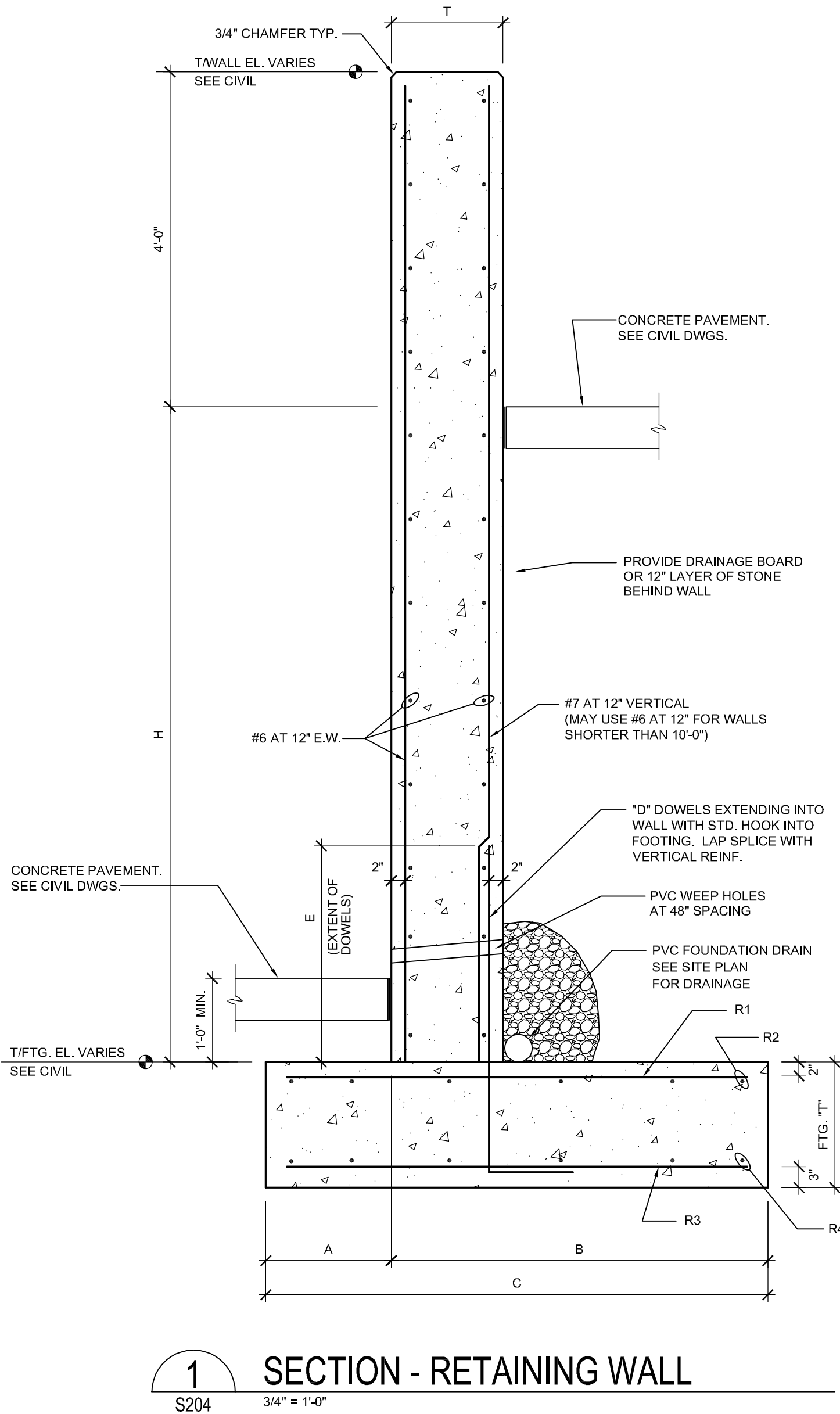
PROJECT NO.:
C241004

RECORD:

CONTENTS:
SECTIONS AND
DETAILS

SHEET:

S203



RETAINING WALL SCHEDULE

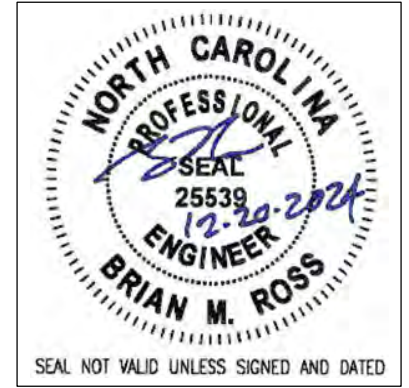
WALL HEIGHT (H)	FOOTING								DOWELS		WALL
	A	B	C	T	R1	R2	R3	R4	D	E	T
0'-0" TO 6'-0"	1'-6"	3'-0"	4'-6"	1'-2"	#6 @ 12"	(3) #6	#6 @ 12"	(3) #6	#6 @ 12"	2'-6"	12"
6'-0" TO 10'-0"	2'-6"	4'-0"	6'-6"	1'-6"	#6 @ 12"	(5) #6	#6 @ 12"	(5) #6	#6 @ 12"	2'-6"	12"
10'-0" TO 12'-0"	3'-6"	6'-0"	9'-6"	2'-0"	#7 @ 12"	(8) #6	#6 @ 12"	(8) #6	#7 @ 12"	3'-0"	16"

NOTES:
1. SEE CIVIL DWGS. FOR MAX. WALL HEIGHTS
2. CONTACT THE ENGINEER PRIOR TO CONSTRUCTION IF ACTUAL WALL HEIGHTS VARY FROM THOSE SHOWN ON THE APPROVED GRADING PLAN AND THE SCHEDULE ABOVE.



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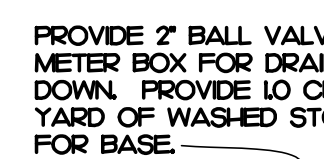
NEW TRANSFER STATION
for CUMBERLAND COUNTY
ANN STREET MSW LANDFILL
FAYETTEVILLE, NC

PLOT DATE: 12/20/2024	
ISSUED: 12/20/2024 FOR PERMIT	
DRAWN BY: BR	APPROVED: JB/SS/EG
PROJECT NO.: C241004	RECORD:
CONTENTS: SECTIONS AND DETAILS	

SHEET:
S204

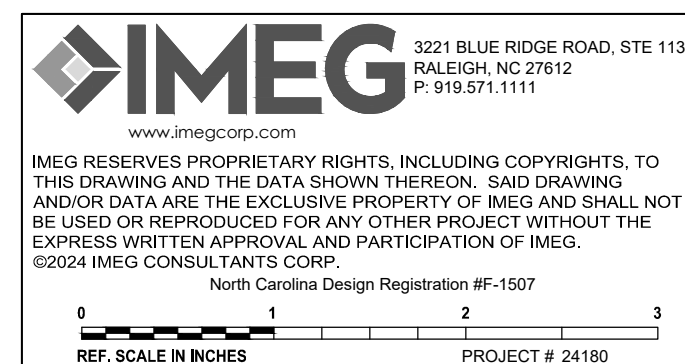
PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.



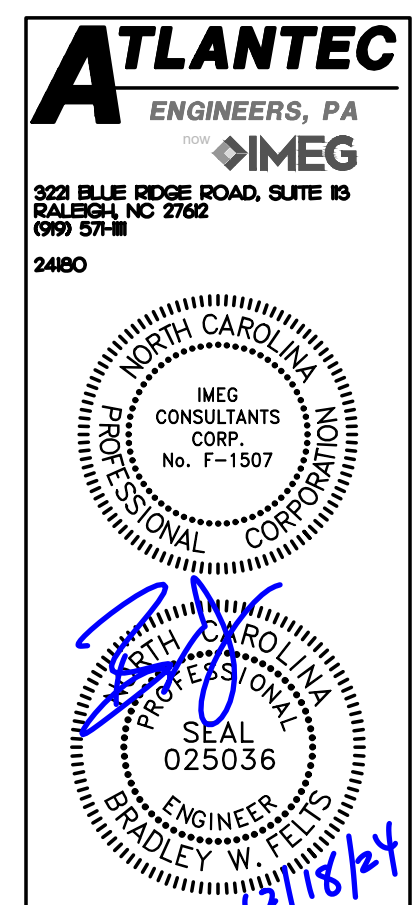
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
8. WATER PIPE BELOW GRADE AND ABOVE GRADE CPVC, SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY ALL TESTED FOR ONE HOUR AT 60 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
9. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
10. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
12. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
13. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
14. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
15. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
16. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

	COLD WATER PIPING
	BALL VALVE
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	SANTARY SEWER / WASTE PIPING
	FLOOR DRAIN



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NEW TRANSFER STATION
FOR CUMBERLAND COUNTY

ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE: 12/17/2024
ISSUED: 12/17/2024 FOR CONSTRUCTION

DRAWN BY: JAD	APPROVED: BWF
PROJECT NO.: 24066	RECORD:
CONTENTS: PLUMBING PLAN	

SHEET:

P101

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PREScriptive

ENERGY COST BUDGET

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS

winter dry bulb: 18°F

summer dry bulb: 94°F

relative humidity: 40%

INTERIOR DESIGN CONDITIONS

winter dry bulb: 70°F

summer dry bulb: 74°F

relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 2.9 MBH

BUILDING COOLING LOAD: BLOCK LOAD = N/A

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:

description of unit:

heating efficiency:

cooling efficiency:

heat output of unit:

cooling output of unit:

SEE SCHEDULES ON THIS SHEET

Boiler: NA

total boiler capacity, If oversized state reason.

Chiller: NA

total chiller capacity, If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON THIS SHEET

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower:

number of phases:

minimum efficiency:

motor type:

of poles:

SEE SCHEDULES ON THIS SHEET

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the International Energy Conservation Code.

SIGNED:

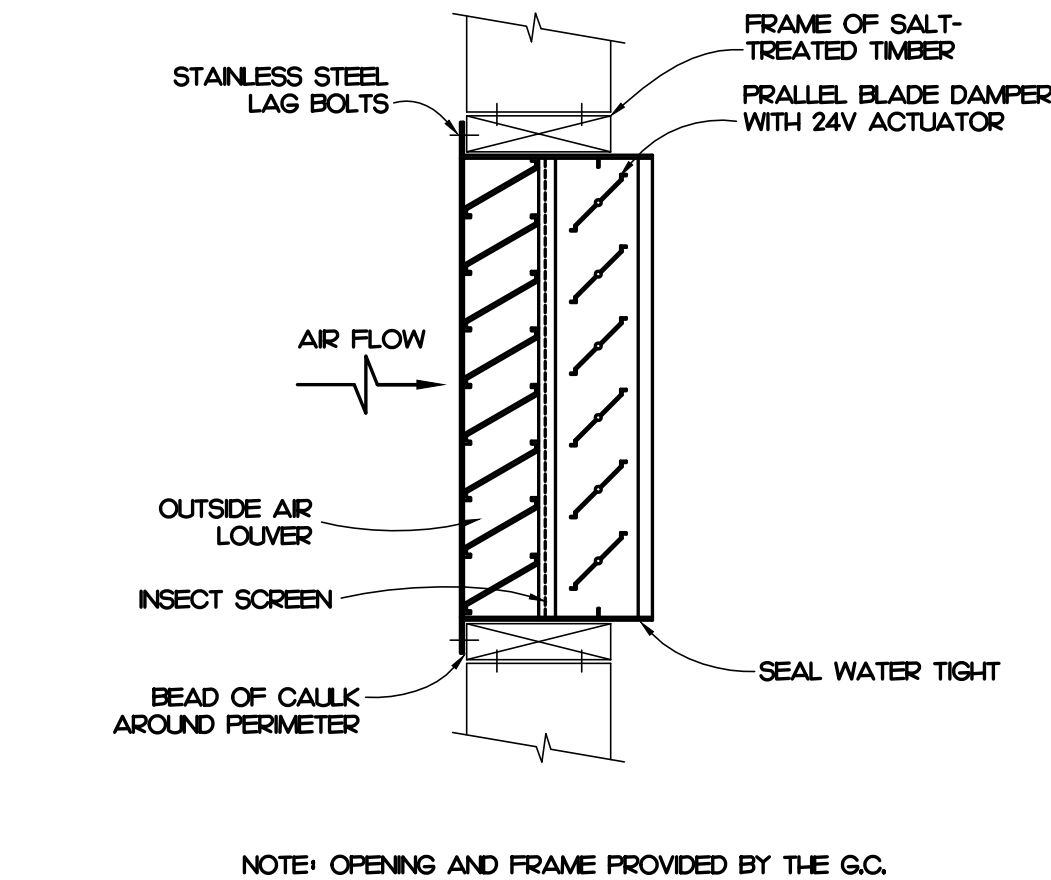
Bradley W. Felts, PE

NAME:

Bradley W. Felts, PE

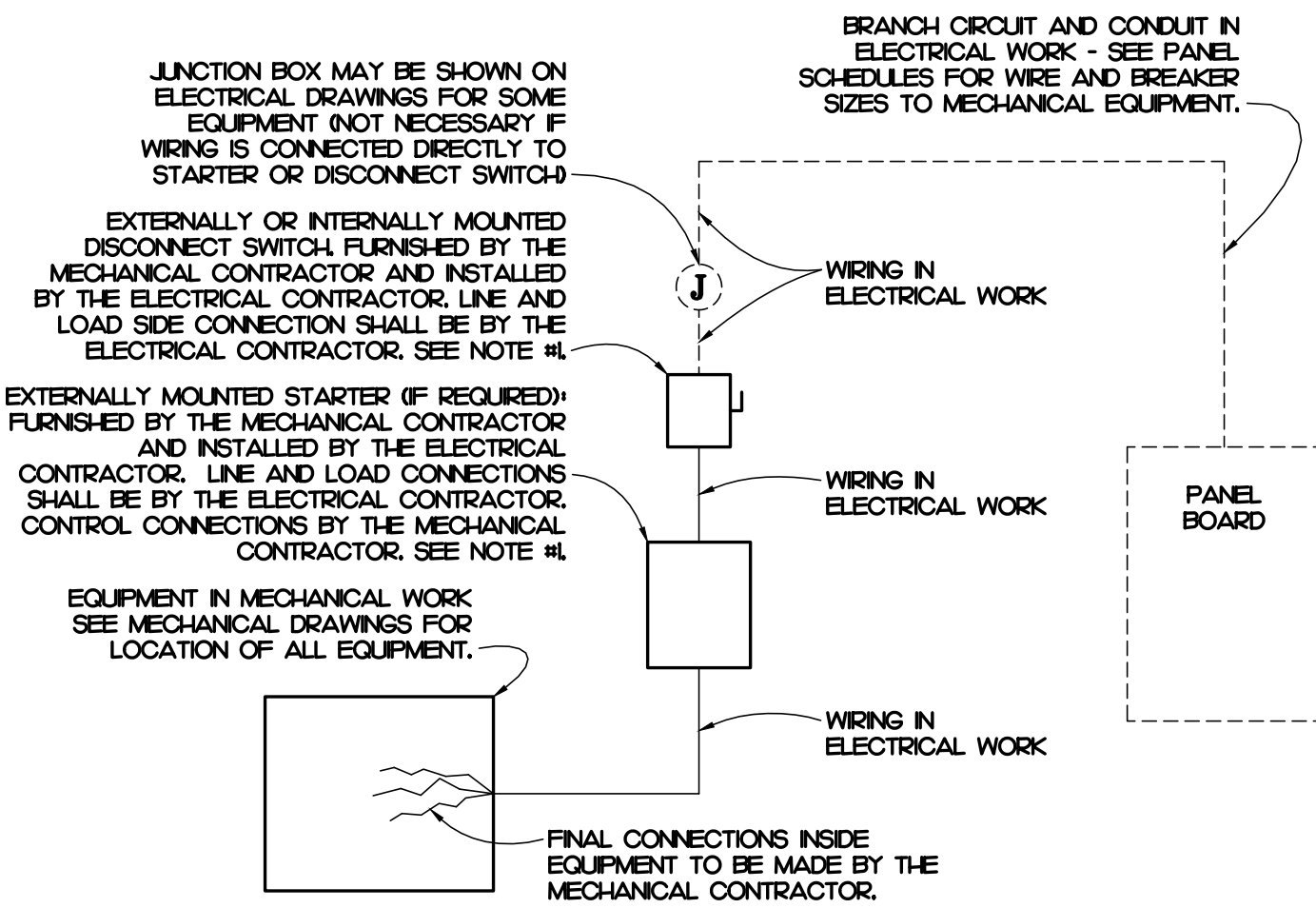
TITLE:

Professional Engineer



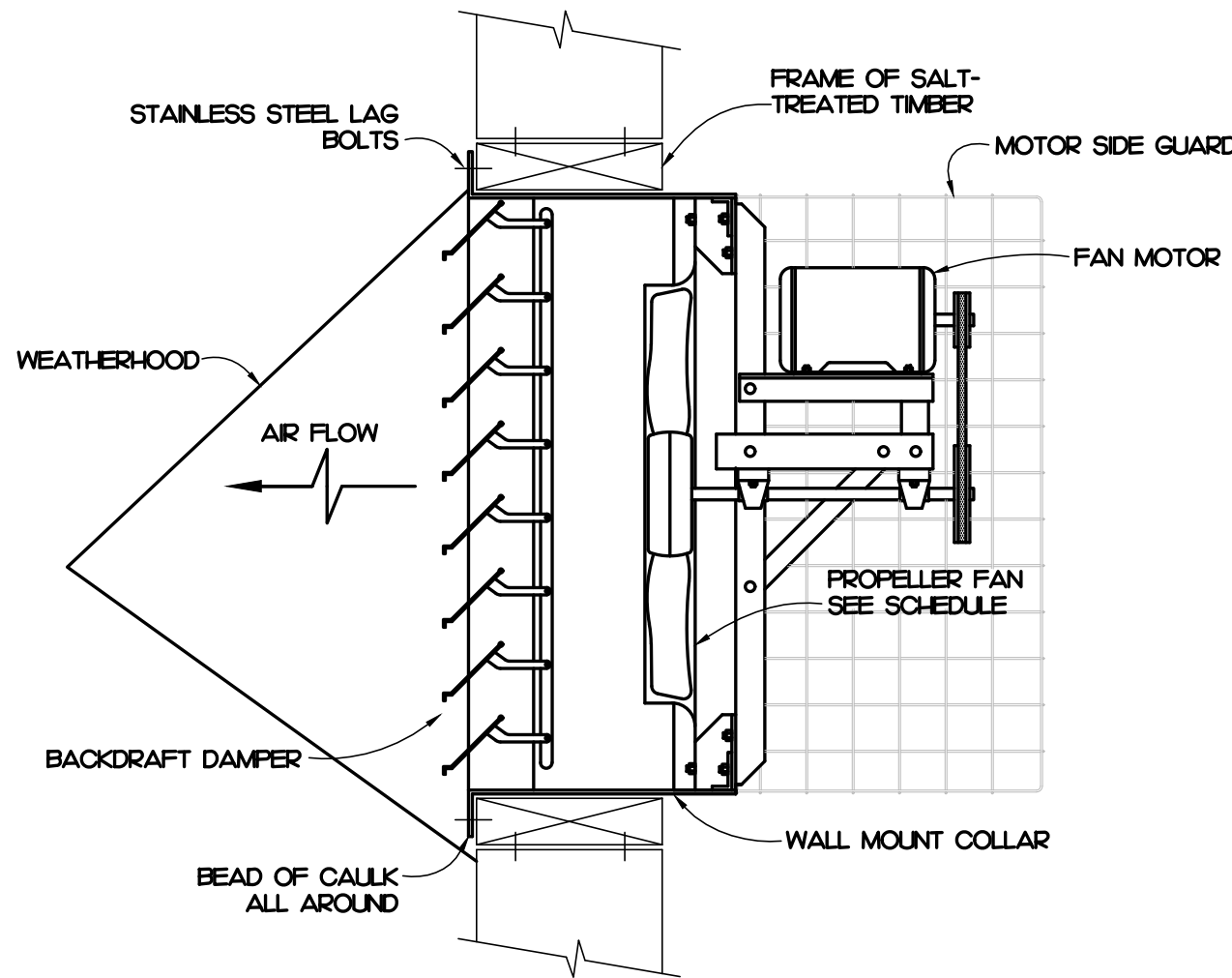
NOTE: OPENING AND FRAME PROVIDED BY THE GC.

4 INTAKE LOUVER DETAIL
NOT TO SCALE

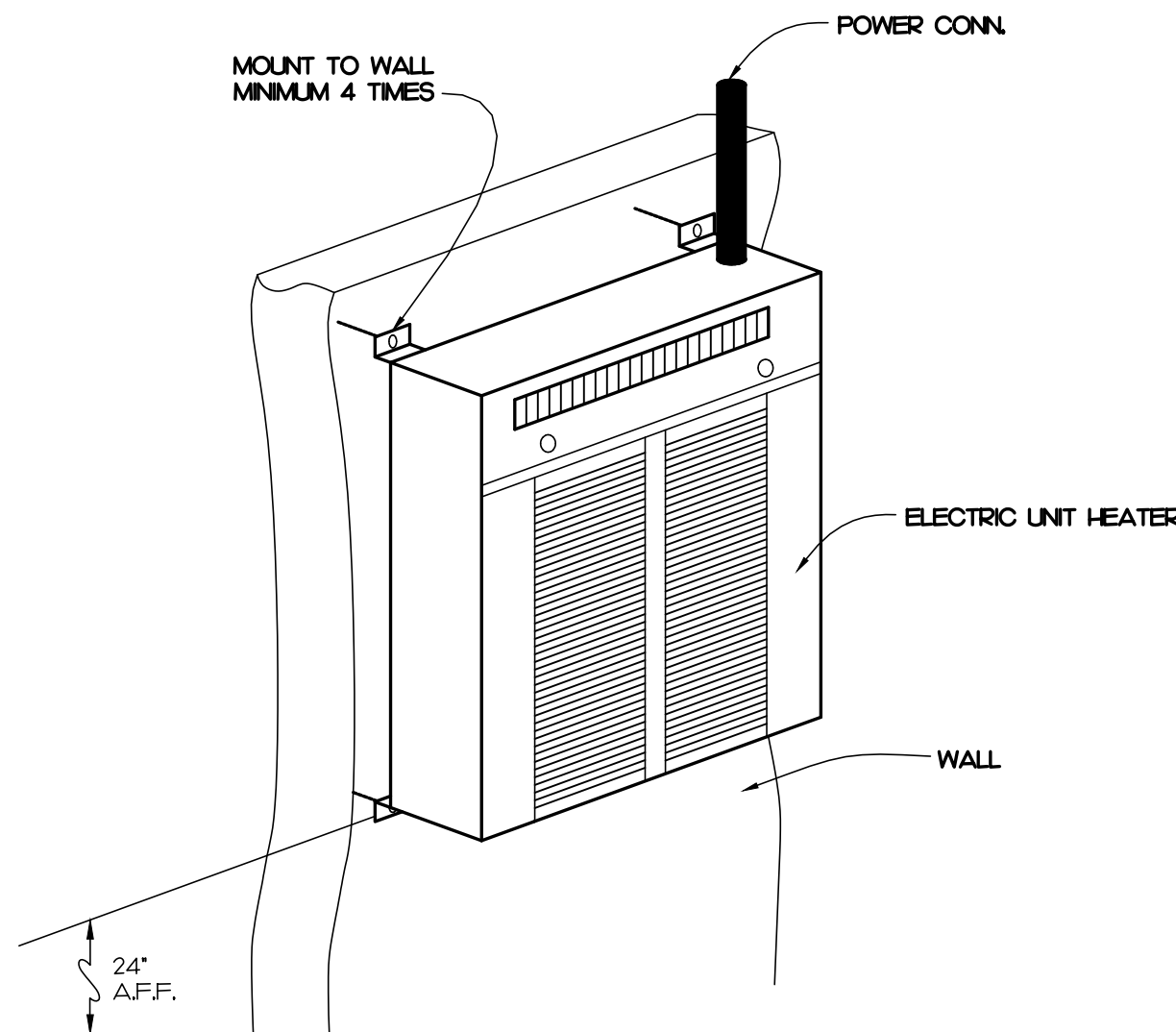


- NOTE:
- A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER.
 - COMBINATION STARTER SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
 - LINE AND LOAD SIDE CONNECTION SHALL BE BY THE ELECTRICAL CONTRACTOR.
 - CONTROL CONNECTIONS BY THE MECHANICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES.

3 TYPICAL WIRING DETAIL
NOT TO SCALE



2 EXHAUST FAN DETAIL
NOT TO SCALE



1 UNIT HEATER DETAIL
NOT TO SCALE

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M/C).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M/C SHALL COORDINATE ALL OF THEIR WORK WITH ALL OTHER CONTRACTORS.
- THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- THE M/C SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M/C EQUIPMENT. THE M/C SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO THEIR EQUIPMENT.
- THE M/C SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER THEIR CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- THE M/C SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM THEIR WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF THEIR WORK. THEY SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN THEIR CONTRACT.
- MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.

OUTSIDE AIR SUMMARY

REQUIRED:

RISER ROOM: 65 SQFT • 0.05 CFM/SQFT • 4 CFM

TOTAL REQUIRED • 4 CFM

PROVIDED:

EF-2: 2500 CFM

TOTAL PROVIDED • 2500 CFM

NOTE:

- EF-1 (QTY. 4) PROVIDES 10 AIR CHANGES FOR TIPPING FLOOR/LOADING BAYS.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
①	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
Ⓜ	MOTOR OPERATED DAMPER

ELECTRIC UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN	LOCATION	CFM	CAPACITY (BTU)	ELECTRICAL (A) (V) (W)	POWER	NOTES
U-H	QMARK CWH10DSE	SPRINKLER RISER	100	3,400	8.3 10 120/1		1-3

NOTES:

- PROVIDE WITH POWER DISCONNECT.
- PROVIDE WITH INTEGRAL THERMOSTAT.
- PROVIDE WITH WALL MOUNTING KIT.

EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-1	COOK 48X14H	TIPPING FLOOR	SIDEWALL, BELT	25,000	457	3.0 1-P	0.5'	208/3	2-5
EF-2	COOK 20X14W	RISER ROOM	SIDEWALL, BELT	2500	96	1/4 1-P	0.2'	208/1	1,2,4-6

NOTES:

- PROVIDE WITH DISCONNECT SWITCH.
- PROVIDE WITH BACKDRAFT DAMPER.
- PROVIDE WITH COMBINATION STARTER/DISCONNECT. COORDINATE LOCATION WITH OWNER.
- PROVIDE WITH WALL COLLAR AND MOTOR SIDE GUARD.
- PROVIDE WITH MANUFACTURE'S WEATHER HOOD.
- CONTROL VIA WALL MOUNTED THERMOSTAT.



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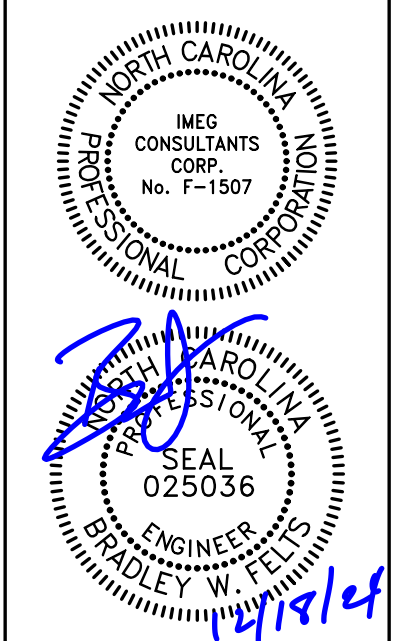
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NEW TRANSFER STATION
FOR CUMBERLAND COUNTY
ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE:

12/17/2024

ISSUED:

12/17/2024

FOR CONSTRUCTION

DRAWN BY:

NGB

PROJECT NO.:

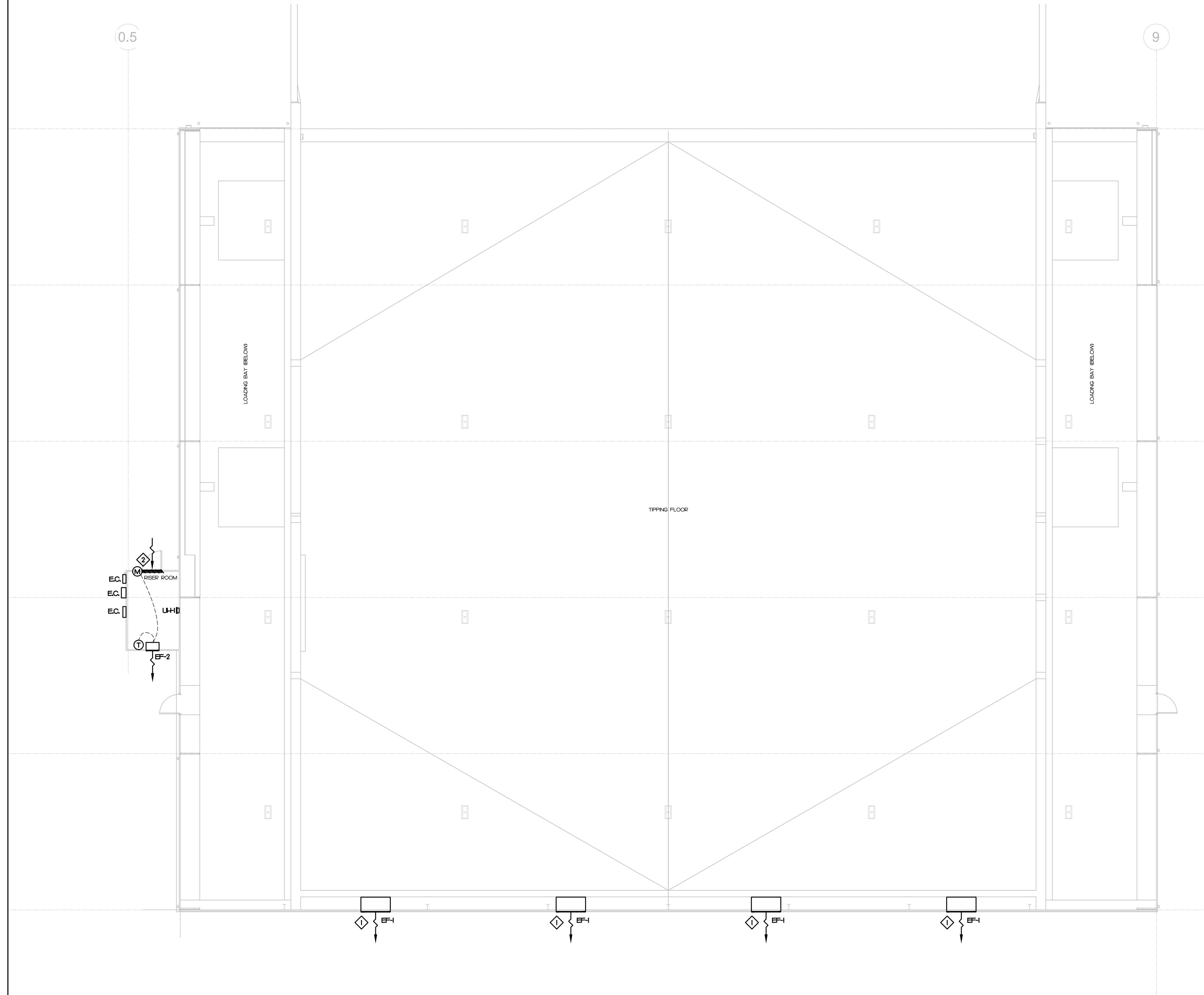
24066

CONTENTS:

MECHANICAL NOTES,
LEGEND,
SCHEDULES, DETAILS

SHEET:

M001



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

MECHANICAL KEY NOTES

- COORDINATE FINAL MOUNTING HEIGHT OF FAN WITH ARCHITECT.
- PROVIDE 36x24 COMBINATION LOUVER/DAMPER FOR 2500 CFM AND 25 SQFT OF FREE AREA. INTERLOCK OPERATION WITH EF-2. PROVIDE WITH 24V ACTUATOR. PROVIDE WITH BRD SCREEN AND KYMAR FINISH.

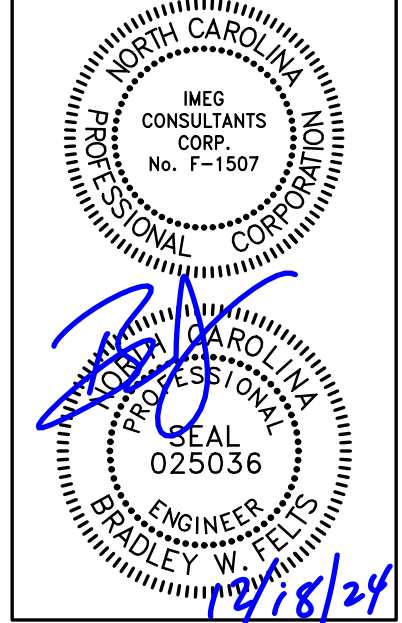


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NEW TRANSFER STATION
FOR CUMBERLAND COUNTY
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PLOT DATE:
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DRAWN BY: NGB	APPROVED: BWF
PROJECT NO.: 24066	RECORD:

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SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	LINEAR HIGH BAY FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR STRIP FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	EMERGENCY WITH EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA, BALLAST LOAD 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 220W @277V)	TORX ZSS24
	SINGLE POLE TOGGLE SWITCH, MOUNT 42" AFF, UNLESS NOTED OTHERWISE.	HUBBELL 1221-**-** WITH NPJ1 COVER PLATE
	20A SINGLE POLE TOGGLE SWITCH WITH NEMA 3R COVER PLATE MOUNT 42" AFF, UNLESS NOTED OTHERWISE. THERMOPLASTIC.	BELL 5028-0 WITH 5320-0 BOX
	SWITCHGANG - SEE DETAIL INDICATED	
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE, MOUNT 16" AFF, UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-**-**TR WITH NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT, GFCI RECEPTACLE MOUNT 16" AFF, UNLESS NOTED OTHERWISE.	HUBBELL GFTIRST20-**-** WITH NPJ26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER, MOUNT 16" AFF, UNLESS OTHERWISE NOTED.	HUBBELL GFTWRST20-**-** WITH WP26M COVER PLATE
	JUNCTION BOX SIZED PER NEC.	
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	DISCONNECT PROVIDED BY M.C., FINAL CONNECTIONS BY E.C.	SEE MECHANICAL PLAN
	NEW CONCEALED WIRING	PER NEC.
	UNSWITCHED LIGHTING CONDUCTOR	PER NEC.
	HOME RUN TO PANEL BOARD, NUMBERS OF ARROW INDICATE CIRCUITS	PER NEC.
	120/208V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NQ
	UTILITY METER BASE	SEE POWER RISER
	ABOVE FINISHED CEILING	
	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	

GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS.
- PENETRATION:
 - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER TH+IN+THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECT TO THE FOLLOWING RESTRICTIONS:
 - SEE NEC 320 AND 330 FOR RESTRICTION.
 - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
 - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
 - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FLURRED AREAS. MAX. LENGTH OF EACH SECTION IN ACCESSIBLE CONCEALED CEILING SPACES SHALL NOT EXCEED 10 FT.
 - WHERE REQUIRED BY NEC 517.3, CABLE SHALL BE LISTED FOR THE USE.
- THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL, WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- ELECTRICAL IDENTIFICATION:
 - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
 - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.

2018 NORTH CAROLINA ENERGY CODE

LAMP TYPE REQUIRED:	ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPTIVE LIGHTING SCHEDULE:			
	FLUORESCENT T8/T5	LED	CFL	INCAN
NUMBER OF LAMPS:	N/A	SEE	N/A	N/A
BALLAST TYPE USED:	N/A	FIXTURE	N/A	N/A
NUMBER OF BALLASTS:	N/A	SCHEDULE	N/A	N/A
TOTAL WATTAGE PER FIXTURE:	N/A		N/A	N/A

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		
AUTOMOTIVE	↓	14040
TOTAL	4390	12636 **
EXTERIOR WATTAGE	ZONE 3	
ALLOWANCE	234	750

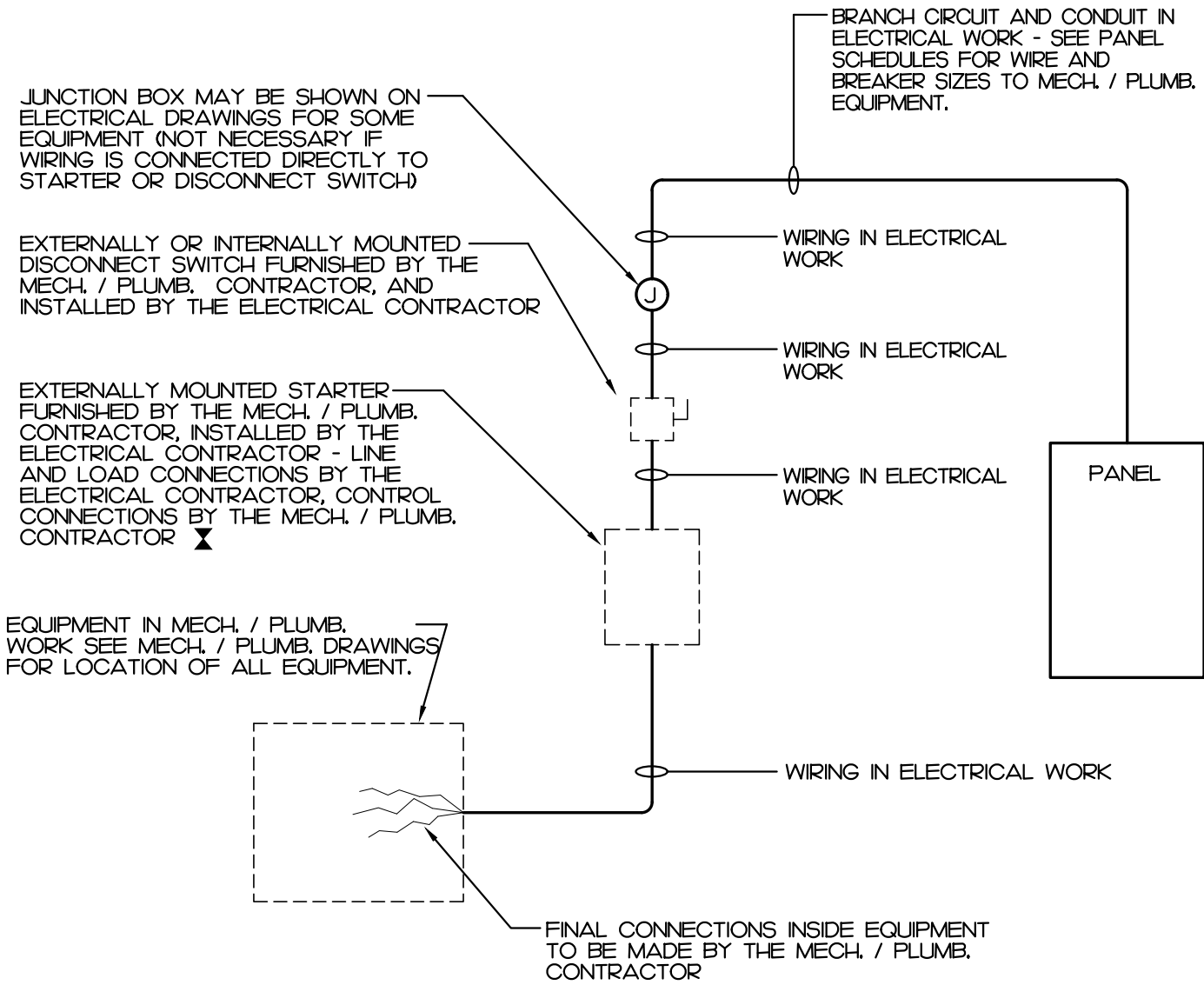
NOTES:

- ** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C406.4.2.
 - VALUE CALCULATE PER SECTION C406.4.2: 14040 WATTS
 - VALUE PER SECTION C406.3: 12636 WATTS

- ALL EXTERIOR LIGHTS:
 - CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED:
NAME: DAVID J. WHITNEY, P.E.
TITLE: ENGINEER



NOTES:

- A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER
- E.C. SHALL FURNISH ALL REQUIRED FUSES.

WIRING TO MECHANICAL AND PLUMBING EQUIPMENT

NOT TO SCALE

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	24" LINEAR H-BAY LED FIXTURE, PENDANT MOUNTED, 24000 LUMEN, LISTED FOR WET LOCATION, IP65 RATED.	LITHONIA: XIB-L24-24000LM-ACMD-MVOLT-GZIO-40K-80CRI	24000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 196 WATTS - 2Ø VA, 120-277V	
A/EM	24" LINEAR H-BAY LED FIXTURE, PENDANT MOUNTED, 30000 LUMEN, LISTED FOR WET LOCATION, IP65 RATED.	LITHONIA: XIB-L24-30000LM-ACMD-MVOLT-GZIO-40K-80CRI-HB8WOP-ECW	24000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 196 WATTS - 2Ø VA, 120-277V	
B	EXTERIOR WALL MOUNTED CUT-OFF 3000 LUMEN, FORWARD THROW LISTED FOR WET LOCATION AND 0°F	LITHONIA: WDGE2-LED-P5-40K-VF-MVOLT-DDBXD	3000 LUMEN LED, 4000K ELECTRONIC DRIVER 23 WATTS - 2Ø VA, 120-277V	FIELD COORDINATE EXACT LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN
B/E	EXTERIOR WALL MOUNTED CUT-OFF 3000 LUMEN, FORWARD THROW LISTED FOR WET LOCATION AND 0°F	LITHONIA: WDGE2-LED-P5-40K-VF-MVOLT-DDBXD-BIOWH	3000 LUMEN LED, 4000K ELECTRONIC DRIVER 23 WATTS - 2Ø VA, 120-277V	
C	4" LED STRIP LIGHT 3000 LUMEN	LITHONIA: CSS-L48-AL03-MVOLT-35K-80CRI	3000 LUMEN LED, 3500K ELECTRONIC DRIVER 28 WATTS - 3Ø VA, 120-277V	
EX	EXIT LIGHT WITH BATTERY BACKUP 1 SIDE RED LETTER	LITHONIA: WLTE-W-HR-EL	LED FOR EXIT PANEL 1 WATTS - 1 VA, 120/277V	
EGX	EMERGENCY WITH EXIT LIGHT 1 SIDE RED LETTER	LITHONIA: LHOM-SD	5 WATTS - 5 VA, 120/277V	

NOTES:

- SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
- E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR PURCHASE ANY. FINISH COLOR AND TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
- E.C. SHALL FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

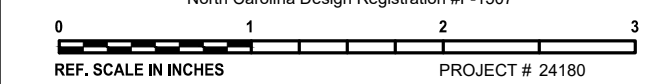


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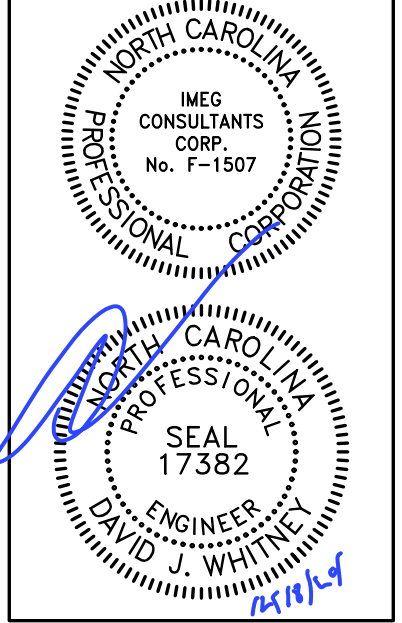


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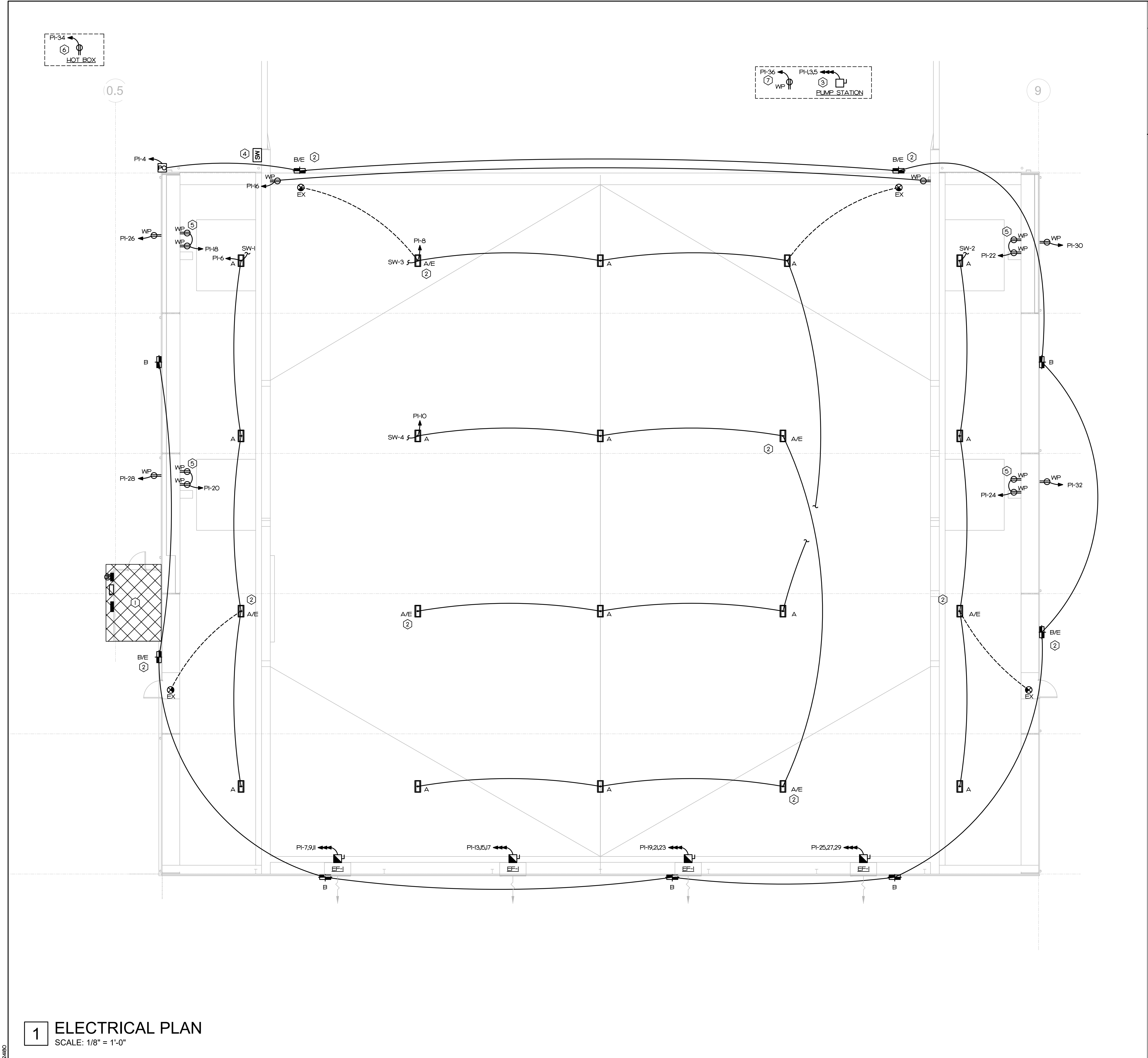
NEW TRANSFER STATION
FOR CUMBERLAND COUNTY
ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE:
12/17/2024
ISSUED:
12/17/2024
FOR CONSTRUCTION

DRAWN BY:
SWM
APPROVED:
DJW
PROJECT NO.:
24066
RECORD:

CONTENTS:
ELECTRICAL LEGEND,
NOTES, DETAILS

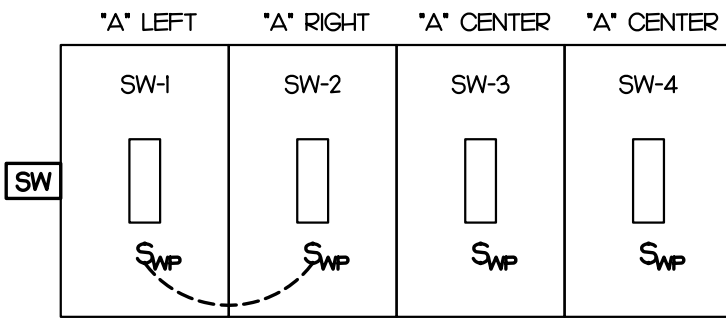
SHEET:
E001



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

ELECTRICAL KEY NOTES

- SEE 2/E201 FOR ENLARGED PLAN
- FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT BATTERY BACKUP AHEAD OF NORMAL CONTROL
- PUMP STATION ON SITE. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN
- SEE 2/E101 FOR DETAILS. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN
- RECEPTACLE TO BE MOUNTED AT TOP OF WALL FOR SCALE EQUIPMENT
- HOT BOX ON SITE FOR BACKFLOW PREVENTION. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN
- SERVICE RECEPTACLE FOR PUMP STATION. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN



2 SWITCHGANG DETAIL
NOT TO SCALE

NOTES:

- ALL SCALE EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

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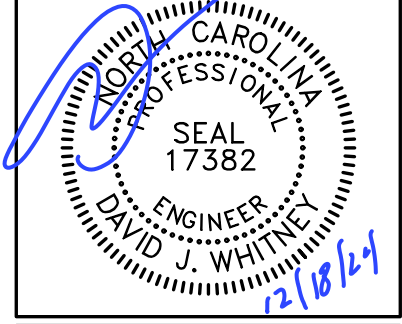
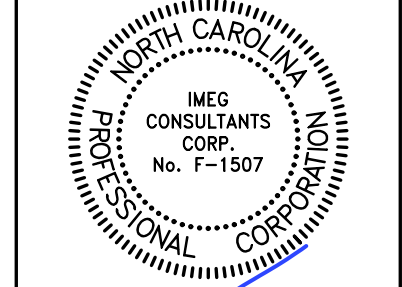
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ANN STREET LANDFILL
FAYETTEVILLE, NC

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DRAWN BY:
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APPROVED:
DJW

PROJECT NO.:
24066

RECORD:
ELECTRICAL PLAN

SHEET:

E101

E201

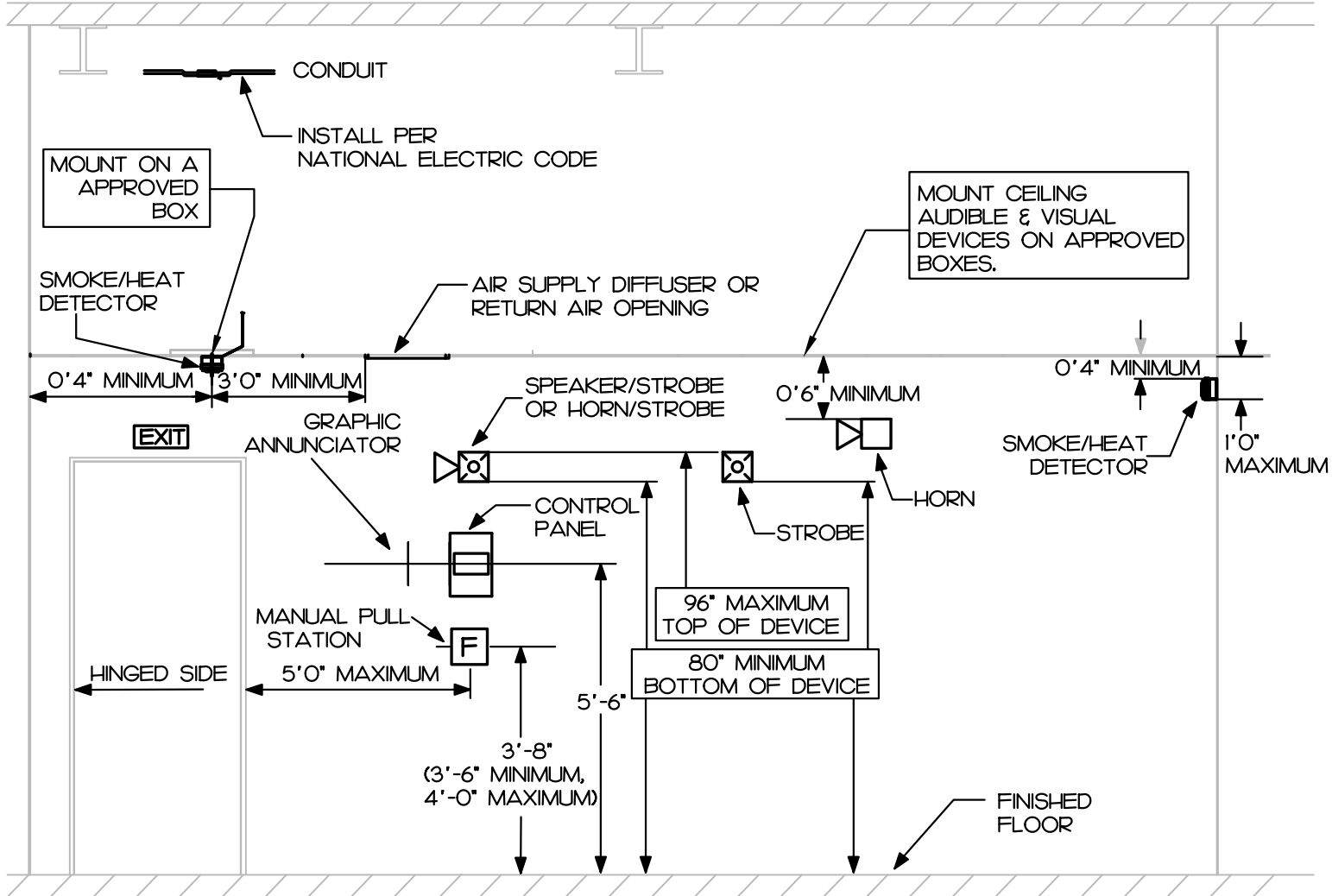
SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FREITE, EST GAMEWELL, SIMPLEX
	SPRINKLER ALARM PULL STATION, MOUNT 42" AFF. ADDRESSABLE.	FREITE, EST GAMEWELL, SIMPLEX
	WEATHER PROOF SPRINKLER ALARM STROBE/HORN, MOUNT 80" AFF. 75 DBA SOUND LEVEL. "XX" INDICATES CANDELA RATING. LISTED FOR 0°F AND WET LOCATION.	FREITE, EST GAMEWELL, SIMPLEX
	SPRINKLER ALARM CONTROL PANEL, SURFACE MOUNTED. ADDRESSABLE.	FREITE, EST GAMEWELL, SIMPLEX
	SPRINKLER ALARM CELLULAR COMMUNICATOR WITH BATTERY BACKUP 2 PATH COMMUNICATIONS: CELLULAR AND P (INTERNET) SURFACE MOUNTED.	HONEYWELL: HMF2-**-COM OR EQUAL
	FIRE SPRINKLER WATER FLOW SWITCH.	BY SPRINKLER CONTRACTOR.
	FIRE SPRINKLER VALVE SUPERVISORY SWITCH (TAMPER SWITCH).	BY SPRINKLER CONTRACTOR.
	LOW TEMP SENSOR. TEMP SETTING 40°F. NORMALLY OPEN ROOM TEMPERATURE.	POTTER: RTS-0
	MONITOR MODULE ADDRESSABLE.	FREITE, EST GAMEWELL, SIMPLEX
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	

SPRINKLER ALARM NOTES

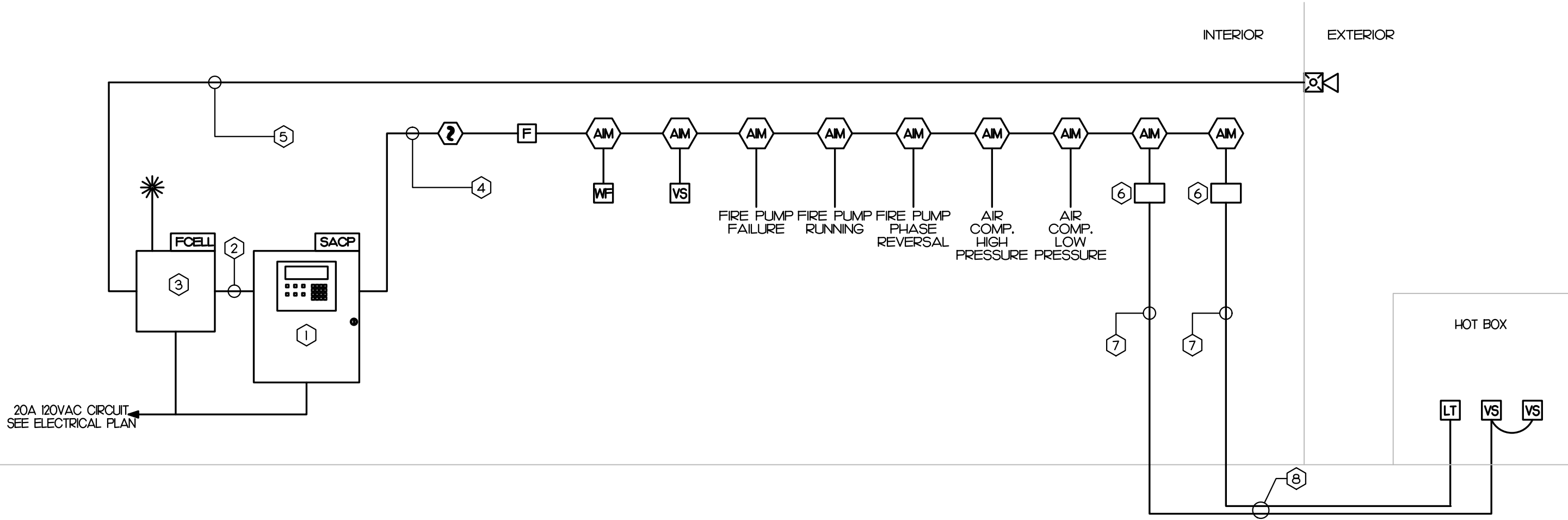
- SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.11 AND 907.12 TO TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY LOCAL FIRE MARSHAL'S OFFICE.
- PLACARD THE ENTIRE SPRINKLER ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE SPRINKLER ALARM CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH SPRINKLER ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW SPRINKLER ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND OUT SHEETS FOR SPRINKLER ALARM SYSTEM TO ENGINEER FOR APPROVAL.
- ALL WIRING SHALL BE SUPERVISED.
- ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- ALL WIRING IN WALLS OR FURRED SPACES SHALL BE IN CONDUIT.
- WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET:
 - WIRING SHALL BE PLENUM RATED WHERE APPLICABLE.
 - PROVIDE BRIDLE RINGS FOR INDEPENDENT SPRINKLER ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
- ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE "CLASS B".
 - MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
- NOTIFICATION CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE "CLASS B".
 - PROVIDE WITH "SYNC MODULE" AS REQUIRED PER NFPA 72.
 - FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
- DIGITAL ALARM COMMUNICATOR:
 - SPRINKLER ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT).
 - WHERE SINGLE COMMUNICATION PATH WITH INTERNET NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.15.
 - WHERE DUAL COMMUNICATION PATHS OF CELLULAR NETWORK AND INTERNET NETWORK ARE REQUIRED BY THE LOCAL FIRE MARSHAL, PROVIDE WITH COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE.
 - FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
- FOR SPRINKLER SYSTEM:
 - FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR PIV VALVE.
 - PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



KEY NOTES

- ADDRESSABLE FIRE ALARM CONTROL PANEL.
- 2 LINE TELEPHONE CABLE IN CONDUIT.
- CELLULAR DIGITAL ALARM COMMUNICATOR.
SEE FIRE ALARM NOTE AND LEGEND FOR REQUIREMENTS.
- ADDRESSABLE CIRCUIT.
- NOTIFICATION APPLIANCE CIRCUIT.
- PROVIDE SURGE PROTECTOR AS REQUIRED FOR INITIATING CIRCUIT TO INITIATING DEVICE LOCATED OUTSIDE BUILDING.
- INITIATING CIRCUIT.
- WIRING IN UNDERGROUND CONDUIT. MIN. SIZE OF 1". MIN. BURIAL DEPTH OF 24" BELOW FINISHED GRADE.



SPRINKLER ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS		SYSTEM OUTPUTS																			
		SACP ANNUNCIATION					NOTIFICATION					REQUIRED FIRE SAFETY CONTROL									
1	SPRINKLER ALARM SYSTEM AC POWER FAILURE																				
2	SPRINKLER ALARM SYSTEM LOW BATTERY																				
3	OPEN CIRCUIT																				
4	GROUND FAULT																				
5	NOTIFICATION APPLIANCE CIRCUIT SHORT																				
6	BUILDING MANUAL PULL STATIONS																				
7	AREA SMOKE DETECTORS																				
8	SPRINKLER TAMPER SWITCH																				
9	SPRINKLER WATER FLOW IN BUILDING																				
10	HOT BOX LOW TEMPERATURE																				
11	FIRE PUMP POWER FAILURE/PHASE REVERSAL																				
12	FIRE PUMP RUNNING																				
13	FIRE PUMP SYSTEM NOT IN AUTOMATIC																				
14	AIR COMPRESSOR HIGH/LOW PRESSURE																				

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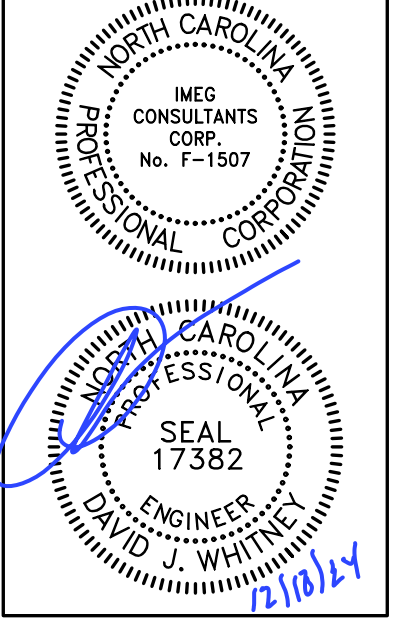


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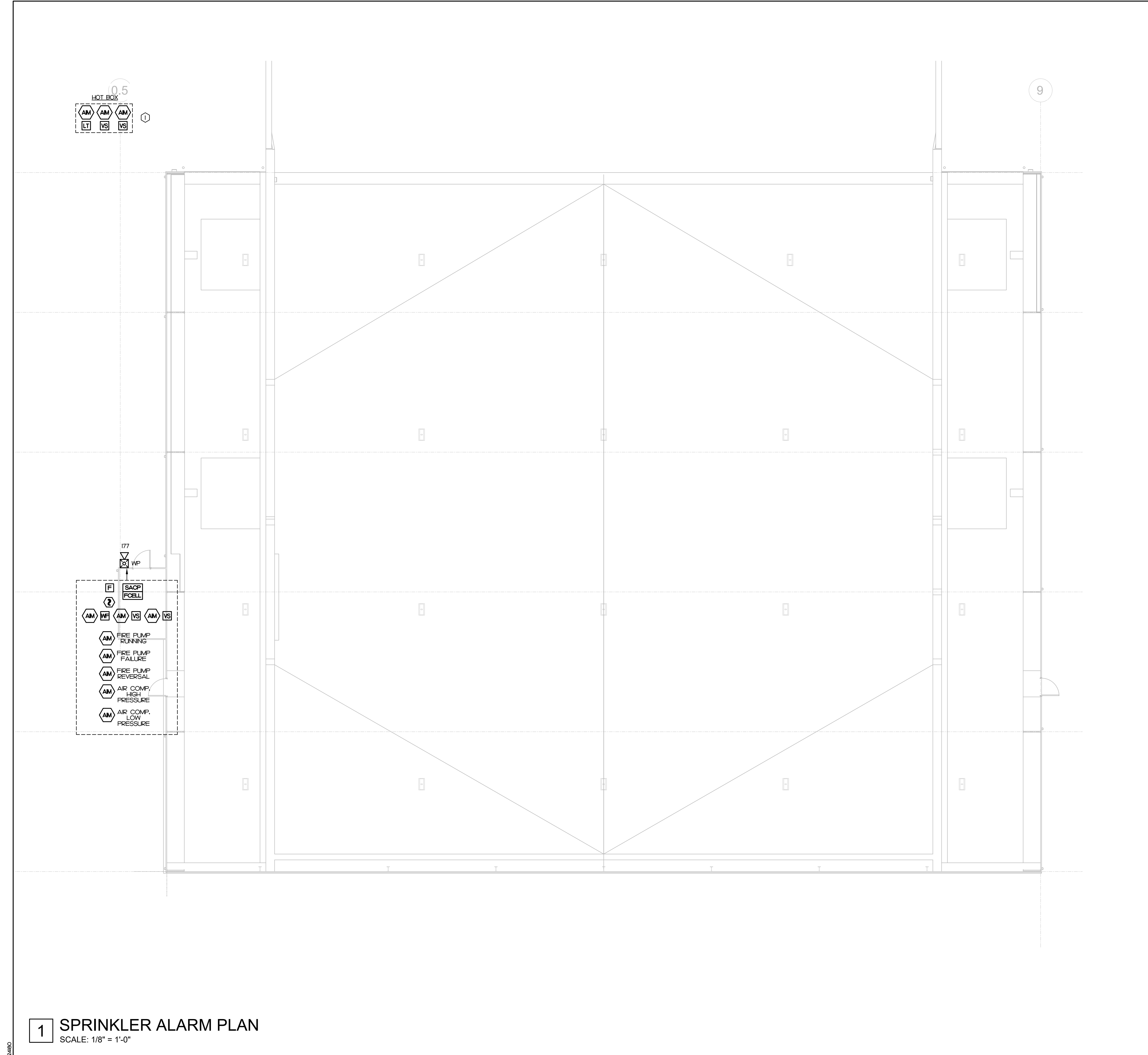
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SWM
APPROVED:
DJW
PROJECT NO.:
24066
RECORD:

CONTENTS:
SPRINKLER ALARM
LEGEND, NOTES,
DETAILS

SHEET:
SA001



1 SPRINKLER ALARM PLAN
SCALE: 1/8" = 1'-0"

SPRINKLER ALARM KEY NOTES

① HOT BOX ON SITE FOR BACKFLOW PREVENTION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN

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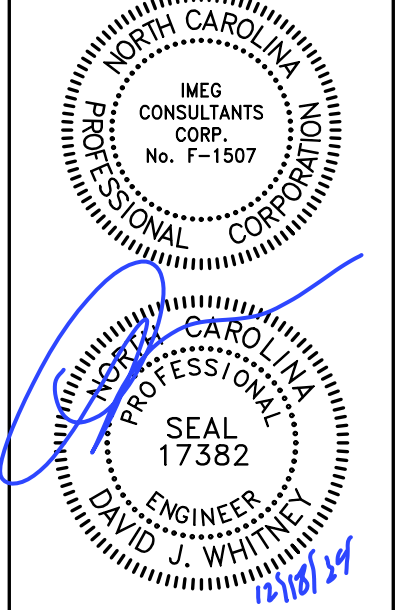


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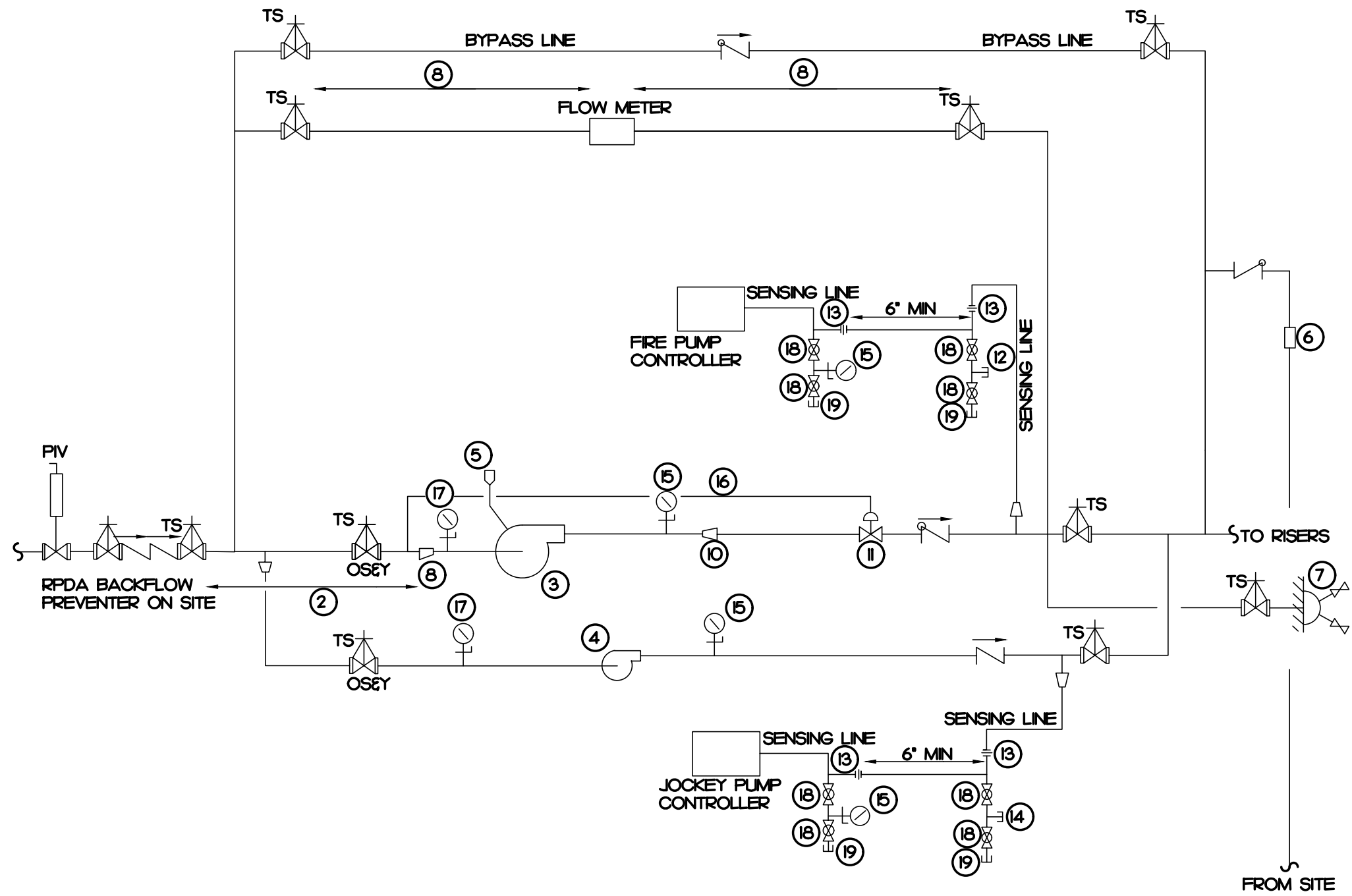
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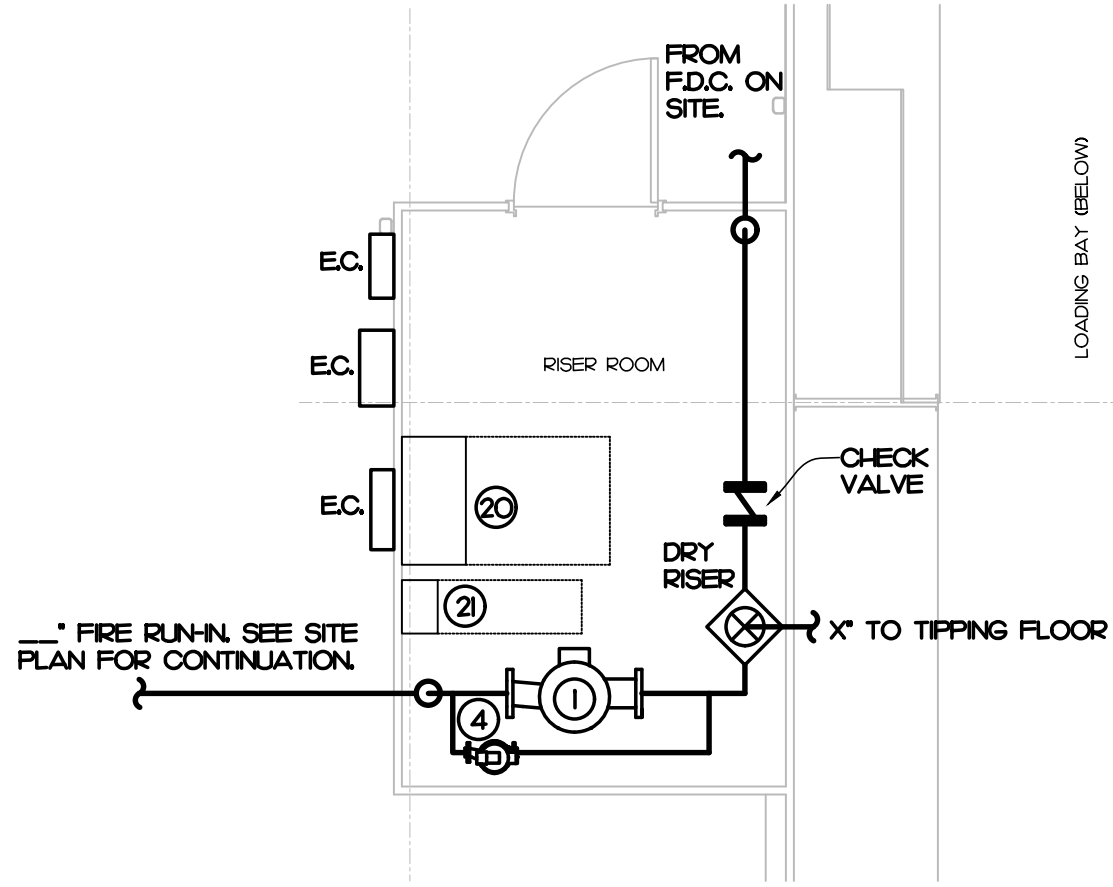
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ISSUED: 12/17/2024 FOR CONSTRUCTION	
DRAWN BY: SWM	APPROVED: DJW
PROJECT NO.: 24066	RECORD:
CONTENTS: SPRINKLER ALARM PLAN	

SHEET:
SA101

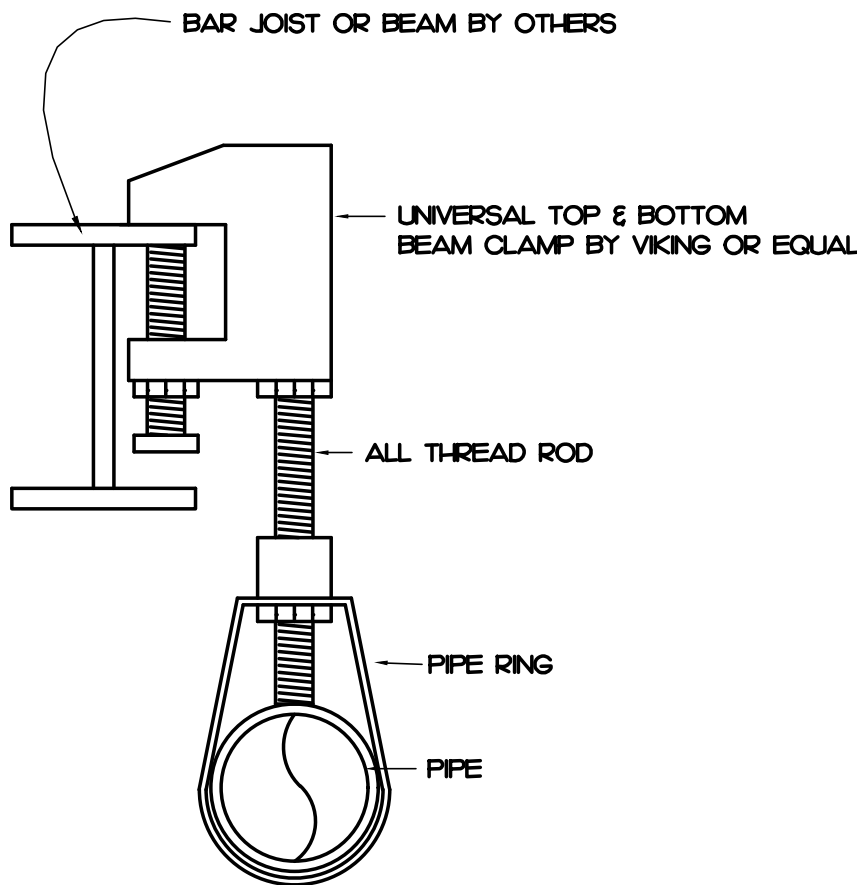


NO	EQUIPMENT DESCRIPTION
1	ELECTRIC FIRE PUMP 500 GPM • 50 PSI, 20 HP, 208/3, 3550 RPM. SIZE TO BE CONFIRMED WITH SPRINKLER CONTRACTOR.
2	MINIMUM 10 PIPE DIAMETERS
3	FIRE PUMP
4	ELECTRIC JOCKEY PUMP 10 GPM • 60 PSI, 10 HP 208/3, 3550 RPM. SIZE TO BE CONFIRMED WITH SPRINKLER CONTRACTOR.
5	AIR RELEASE VALVE
6	FIRE DEPARTMENT CONNECTION WITH AUTOMATIC BALL DRIP VALVE
7	PUMP TEST HEADER, SIZE AS REQUIRED BY NFPA 20
8	PROVIDE MINIMUM DISTANCES AS REQUIRED BY FLOW METER MANUFACTURER.
9	ECCENTRIC REDUCER
10	CONCENTRIC REDUCER
11	SUCTION PRESSURE CONTROL VALVE
12	PLUG
13	UNION WITH NONCORROSIVE DIAPHRAGMS DRILLED FOR 3/32" ORIFICE
14	PLUG
15	PRESSURE GAUGE WITH GAUGE COCK
16	PRESSURE SENSING PIPE
17	COMPOUND PRESSURE VACUUM GAUGE WITH GAUGE COCK
18	GLOBE VALVE
19	DRAIN
20	SERVICE RATED FIRE PUMP CONTROLLER
21	JOCKEY PUMP CONTROLLER

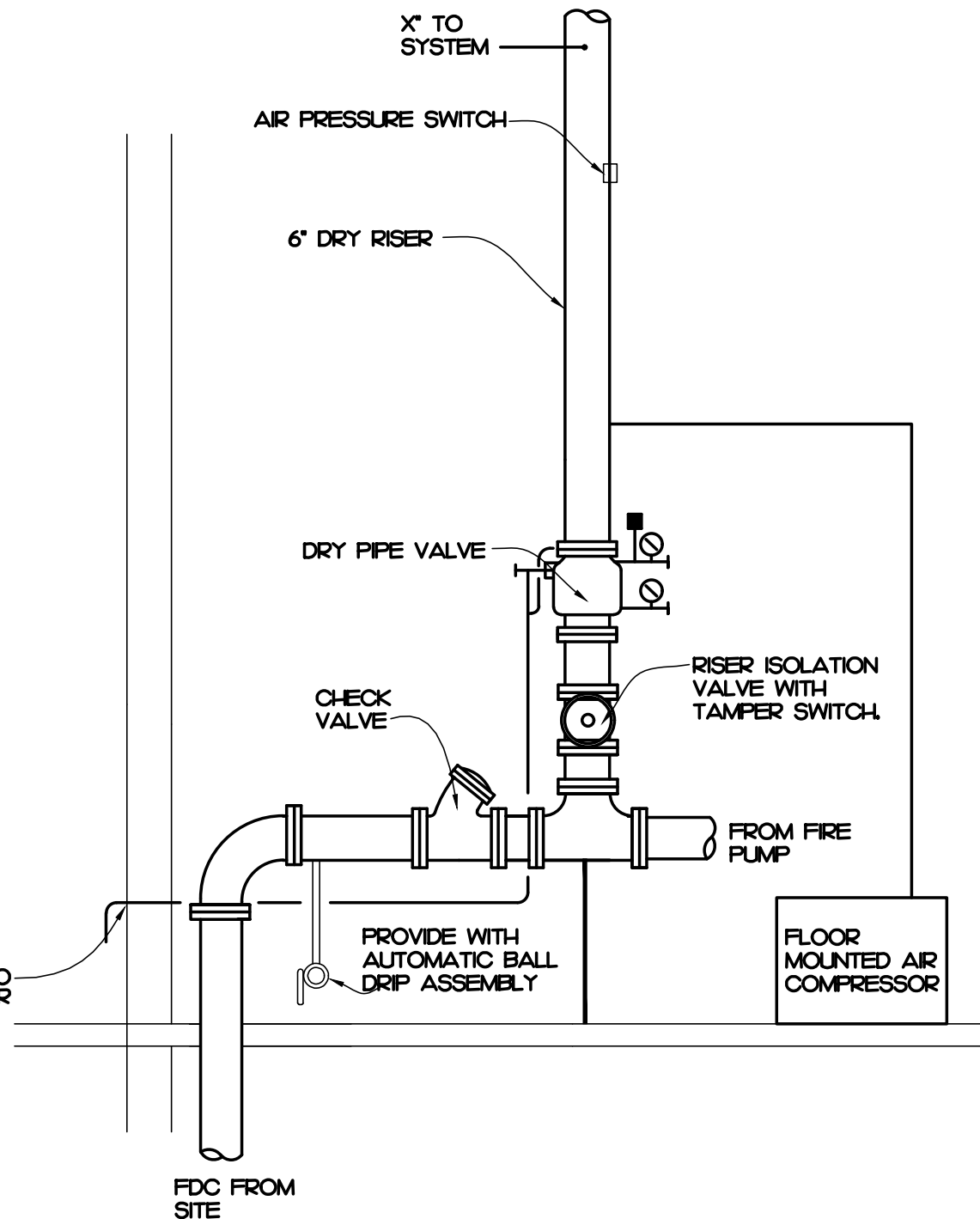
NOTE:
- PROVIDE WITH FLOW SWITCH
- PROVIDE 36" CLEARANCE IN FRONT OF RISER AND 12" ON EACH SIDE AND REAR OF RISER.



2 RISER ROOM LAYOUT / DETAILS
SCALE: NOT TO SCALE



3 HANGER DETAIL
SCALE: NOT TO SCALE



1 INSPECTOR'S TEST DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES

- THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION. (LIGHTS, PIPES, ETC.)
- THE SPRINKLER CONTRACTOR SHALL COORDINATE SHUT-OFF TIMES WITH OWNER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL NFPA CODES, 13 & 72.
- THE SPRINKLER CONTRACTOR SHALL BE A LICENSED SPRINKLER CONTRACTOR.
- WIRING FROM ALL TAMPER SWITCHES AND FLOW SWITCHES TO FIRE ALARM PANEL SHALL BE BY THE ELECTRICAL CONTRACTOR.
- ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL PIPE UP TO 2" SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTING. PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLLED GROOVE FITTING.
- ALL HEADS ARE TO BE CENTERED IN TILES UNLESS OTHERWISE NOTED.
- TESTING SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. PRESSURE TEST SHALL BE STATIC WATER AT TEST PRESSURE OF 200 PSIG FOR 2 HOURS DURATION WITHOUT LEAK FROM ANY JOINT OR SEGMENT OF THE PIPING SYSTEM FROM ANY EQUIPMENT OR DEVICE.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORK OF OTHER, TO BUILDING AND PROPERTY / MATERIALS OF OTHERS CAUSED BY LEAKS IN SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPES FOR FITTINGS, AND SHALL PAY FOR NECESSARY REPAIR OR REPAIR OF WORK OR ITEMS SO DAMAGED DURING THE INSTALLATION AND TESTING PERIODS OF THE STANDPIPE WORK.
- TESTS PER SECTION 11.1 OF NFPA 13 TO BE WITNESSED BY THE OWNERS INSURANCE UNDERWRITERS, THE INSTALLING CONTRACTOR AND THE ARCHITECT / ENGINEER FIELD INSPECTOR - REPRESENTATIVE. SPRINKLER CONTRACTOR TO SUBMIT 3 COPIES OF NFPA 13-1990 CONTRACTORS MATERIAL AND TEST CERTIFICATES.
- FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13.
- REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTION OF THE SYSTEM. THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD ADDITIONAL HEADS REQUIRED IN THE FIELD.
- THE CONTRACTOR SHALL INCLUDE COST IN CONTRACT TO ADD HEADS REQUIRED IN THE FIELD.
- THE G.C. TO PAINT EXPOSED PIPING, COORDINATE ROUTING OF PIPING WITH G.C.

COORDINATION DRAWINGS

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS TO IDENTIFY AND RESOLVE INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND FIRE ALARM SYSTEMS SHOWN ON THESE DRAWINGS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY THAT ALL TRADES PARTICIPATE IN PREPARATION OF COORDINATION DRAWINGS AND THE INSTALLATION OF WORK IN ACCORDANCE WITH DRAWINGS. SEE SPECIFICATION SECTION 03100.

DESIGN SUMMARY

THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH NFPA 13 FOR ORDINARY HAZARD, GROUP 2 COVERAGE. THE DESIGN SHALL BE A HYDRAULIC CALCULATION METHOD GENERATED BY A FIRE SPRINKLER COMPUTER PROGRAM. THE DESIGN SHALL BE PERFORMED BY A NCET LEVEL III TECHNICIAN OR A PROFESSIONAL ENGINEER EXPERIENCED IN FIRE SPRINKLER DESIGN. ALL DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SPRINKLER EQUIPMENT AND MATERIALS TO THE PROJECT ENGINEER OF RECORD FOR REVIEW.

THE FOLLOWING SPECIFIC REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF THE SYSTEM:

- FIRE MAIN FROM THE TAP AT THE UTILITY SYSTEM WATER MAIN INTO THE BUILDING TO ONE FOOT ABOVE FINISHED FLOOR AT THE DESIGNATED RISER LOCATION SHALL BE INSTALLED BY THE SITE UTILITY CONTRACTOR.
- FLOW TEST SHOWS AVAILABLE PRESSURE IS NOT ADEQUATE FOR COVERAGE OF BUILDING. THEREFORE, A FIRE PUMP SHALL BE DESIGNED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR. FIRE PUMP SIZE TO BE 500 GPM AT 50 PSI. FINAL DETAILS AND SPECIFICATIONS FOR FIRE PUMP WILL BE PROVIDED BY SPRINKLER CONTRACTOR.
- FIRE DEPARTMENT CONNECTION TO BE LOCATED ON SITE. COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.
- SPRINKLER SYSTEM DESIGN SHALL INCLUDE SEISMIC RESTRAINTS IN ACCORDANCE WITH NFPA 13 FOR SEISMIC SITE CLASS OF C. PROVIDE SUBMITTAL SHOWING CALCULATIONS AND LOCATION OF ALL RESTRAINTS WITH SUBMITTAL DATA.
- SEE ARCHITECTURAL, SITE, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR ALL SECTIONS. ELEVATIONS AND OTHER TRADES FOR COORDINATION. IT IS THE SPRINKLER CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPE ROUTING AND HEAD PLACEMENT WITH OTHER TRADES AND PROVIDE CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT AND MECHANICAL EQUIPMENT. COSTS ASSOCIATED WITH CONFLICTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- SEE CIVIL SITE UTILITY PLAN FOR WATER CONNECTION AT CITY MAIN, BACKFLOW PREVENTER, PIV, AND FDC LOCATIONS.

FLOW TEST:
STATIC: 73 PSI
RESIDUAL: 60 PSI
FLOW: 1338 GPM

TEST DATE: 12/17/2024

FIRE FLOW ANALYSIS

PER 2018 NC FIRE CODE APPENDIX B:
BUILDING AREA 18,100 SQFT
TYPE I-B CONSTRUCTION

PER TABLE B105.2 THE FIRE FLOW REQUIRED IS 2750 GPM REDUCED TO 25% OF THIS PER TABLE B105.2 SINCE THE BUILDING IS PROTECTED BY NFPA 13 SYSTEM. FIRE FLOW REQUIRED IS 687.5 GPM. THE FIRE REDUCTION SHALL BE NOT LESS THAN 1000 GPM PER TABLE B105.2. THIS FIRE FLOW REQUIRED IS 1000 GPM. FLOW TEST PROVIDED SHOWS STATIC PRESSURE OF 73 PSI, RESIDUAL PRESSURE OF 60 PSI FLOWING 1338 GPM. THIS YIELDS A FLOW IN EXCESS OF 1000 GPM AT 20 PSI.

SYMBOL LEGEND

 DRY SPRINKLER RISER
 SPRINKLER MAIN

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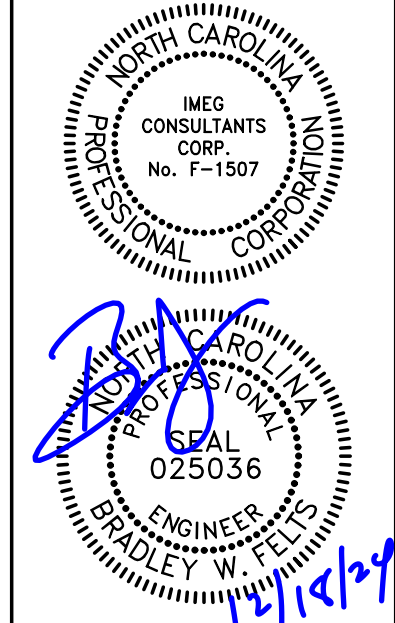


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NEW TRANSFER STATION
FOR CUMBERLAND COUNTY
ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE:
12/17/2024
ISSUED:
12/17/2024
FOR CONSTRUCTION

DRAWN BY:
JAD
PROJECT NO.:
24066
APPROVED:
BWF
RECORD:
CONTENTS:
FIRE PROTECTION
NOTES, LEGENDS
AND DETAILS

SHEET:
FP001

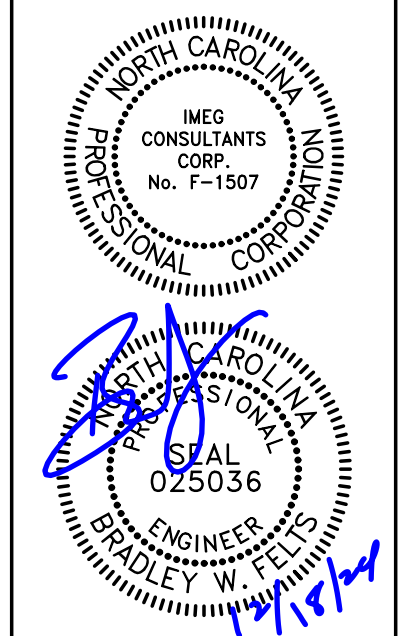


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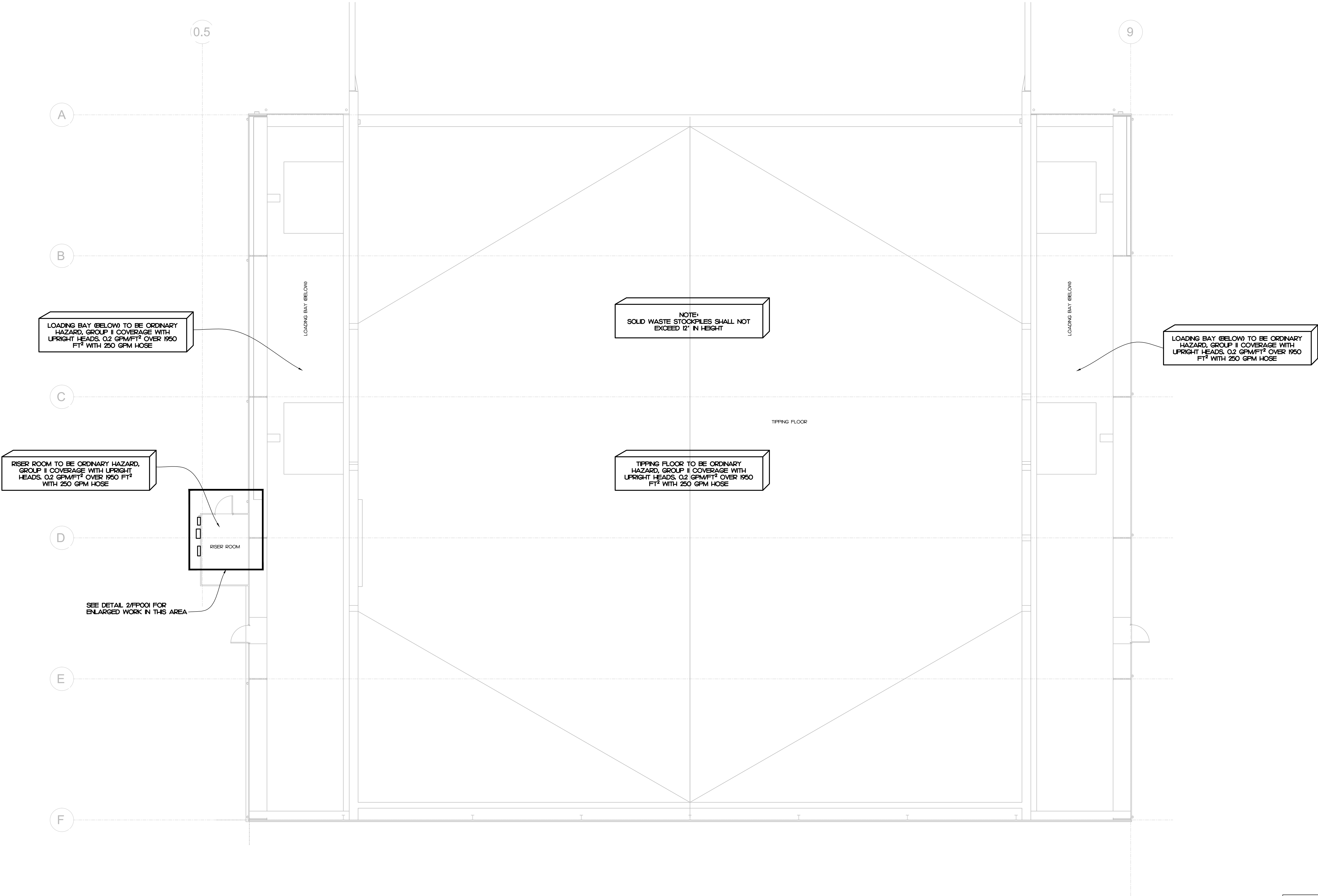
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FOR CUMBERLAND COUNTY
ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE:
12/17/2024
ISSUED:
12/17/2024
FOR CONSTRUCTION

DRAWN BY: JAD	APPROVED: BWF
PROJECT NO.: 24066	RECORD:

CONTENTS:
FIRE PROTECTION
PLAN

SHEET:
FP101



1 FIRE PROTECTION TRANSFER STATION PLAN
SCALE: 1/8" = 1'-0"

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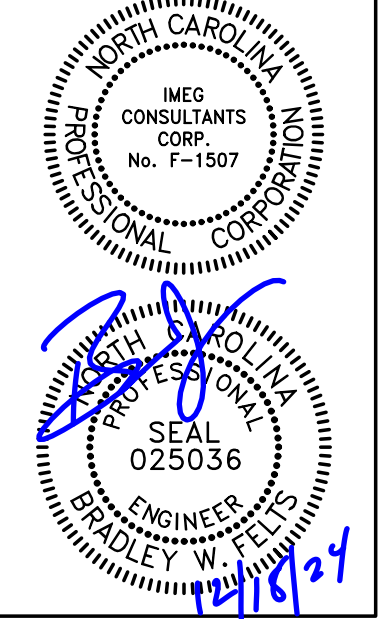


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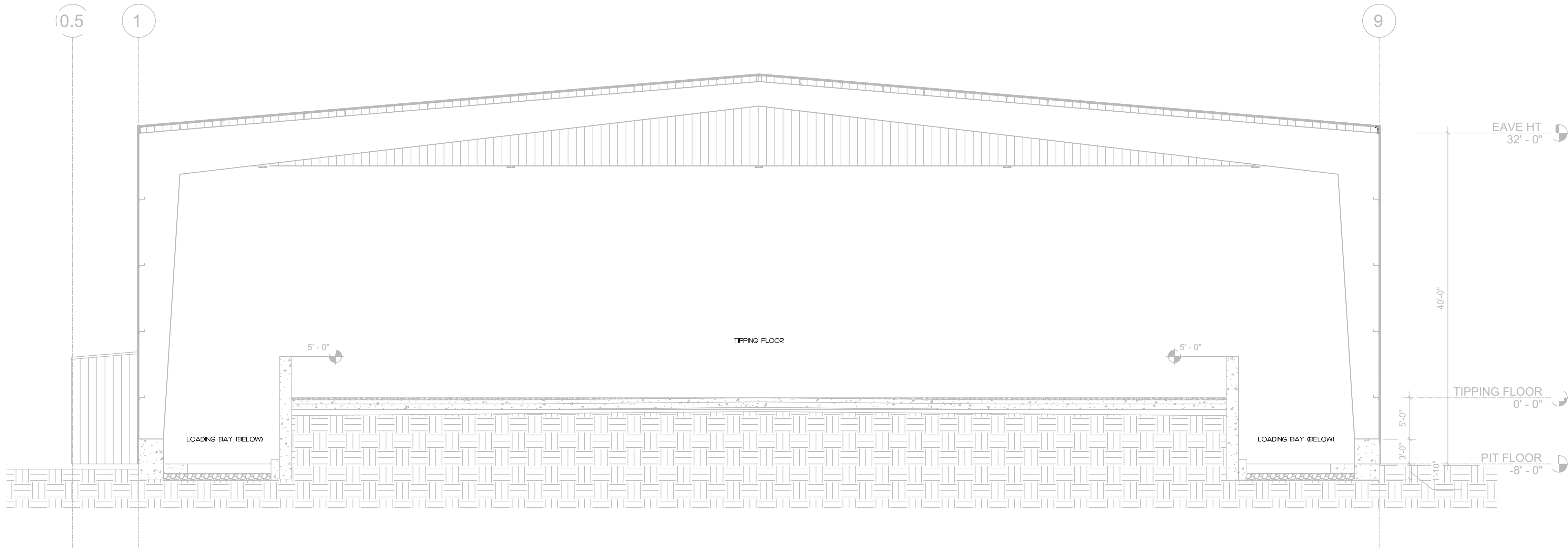
NEW TRANSFER STATION
FOR CUMBERLAND COUNTY
ANN STREET LANDFILL
FAYETTEVILLE, NC

PLOT DATE:
12/17/2024
ISSUED:
12/17/2024
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CONTENTS:
FIRE PROTECTION
SECTION PLAN

SHEET:
FP201



1 FIRE PROTECTION SECTION PLAN
SCALE: 1/8" = 1'-0"

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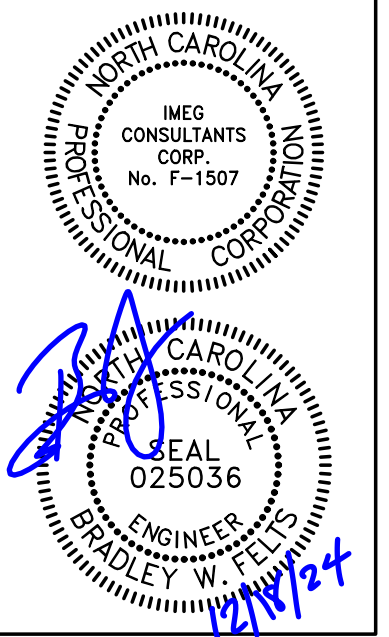


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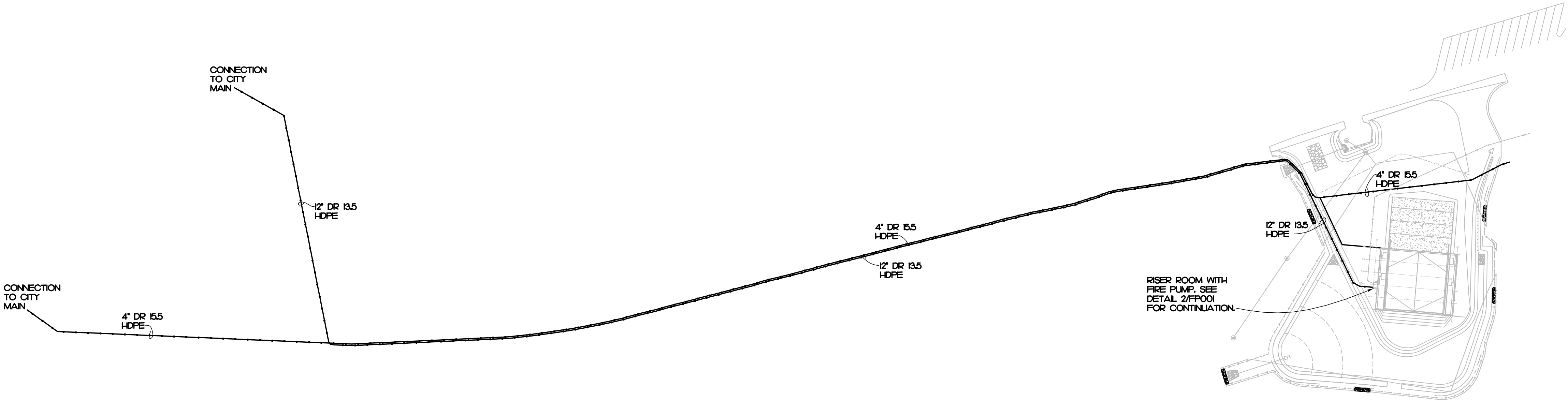
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PLOT DATE:
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PROJECT NO.: 24066	RECORD:

CONTENTS:
FIRE PROTECTION
SITE PLAN

SHEET:
FP301



1 FIRE PROTECTION SITE PLAN
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