



AIRFIELD HANGAR

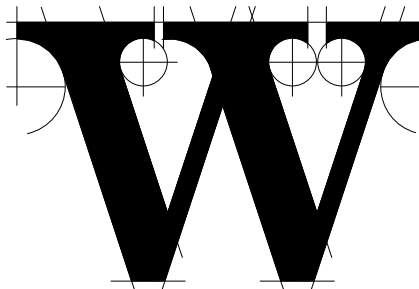
222 AIRPORT ROAD
KENANSVILLE, NC, 28349

MARCH 28, 2025



Air Field Hangar
Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER
STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
SABER
ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

COVER SHEET

SHEET NUMBER
G-000

SHEET INDEX

GENERAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	G-000	COVER SHEET
		03-28-2025	G-001	SHEET INDEX
		03-28-2025	G-002	GENERAL NOTES
		03-28-2025	G-003	PARTITION TYPES AND DETAILS
		03-28-2025	G-101	APPENDIX B
		03-28-2025	G-102	FIRST FLOOR LIFE SAFETY

ARCHITECTURAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	A-101	FIRST FLOOR PLAN
		03-28-2025	A-111	FIRST FLOOR CEILING PLAN
		03-28-2025	A-201	BUILDING ELEVATIONS
		03-28-2025	A-301	BUILDING SECTIONS
		03-28-2025	A-401	ENLARGED PLANS
		03-28-2025	A-501	PLAN DETAILS
		03-28-2025	A-701	FINISH PLAN

PLUMBING

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	P-001	PLUMBING GENERAL NOTES, SCHEDULES, DETAILS, AND LEGENDS
		03-28-2025	P-002	PLUMBING SCHEDULES
		03-28-2025	P-101	PLUMBING FLOOR PLAN
		03-28-2025	P-102	PLUMBING RISER DIAGRAM-WASTE AND VENT

CIVIL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	1 OF 21	COVER SHEET
		03-28-2025	2 OF 21	GENERAL CONSTRUCTION NOTES
		03-28-2025	3 OF 21	GENERAL CONSTRUCTION NOTES
		03-28-2025	4 OF 21	GENERAL CONSTRUCTION NOTES
		03-28-2025	5 OF 21	EXISTING SITE CONDITIONS
		03-28-2025	6 OF 21	PROPOSED SITE PLAN
		03-28-2025	7 OF 21	DRAINAGE AND GRADING PLAN
		03-28-2025	8 OF 21	PAVEMENT DETAILS
		03-28-2025	9 OF 21	PAVEMENT DETAILS
		03-28-2025	10 OF 21	PAVEMENT DETAILS
		03-28-2025	11 OF 21	EROSION CONTROL PLAN
		03-28-2025	12 OF 21	WATER CONSTRUCTION
		03-28-2025	13 OF 21	SANITARY SEWER CONSTRUCTION
		03-28-2025	14 OF 21	STORM DRAINAGE CONSTRUCTION
		03-28-2025	15 OF 21	STORM DRAINAGE DETAILS
		03-28-2025	16 OF 21	STORM DRAINAGE DETAILS
		03-28-2025	17 OF 21	WATER CONSTRUCTION DETAILS
		03-28-2025	18 OF 21	SANITARY SEWER DETAILS
		03-28-2025	19 OF 21	EROSION CONTROL DETAILS
		03-28-2025	20 OF 21	EROSION CONTROL DETAILS
		03-28-2025	21 OF 21	EROSION CONTROL DETAILS

STRUCTURAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	S-001	GENERAL NOTES AND ABBREVIATIONS
		03-28-2025	S-101	FOUNDATION PLAN
		03-28-2025	S-301	PEMB SECTIONS AND DETAILS
		03-28-2025	S-302	PEMB PIER DETAILS

MECHANICAL

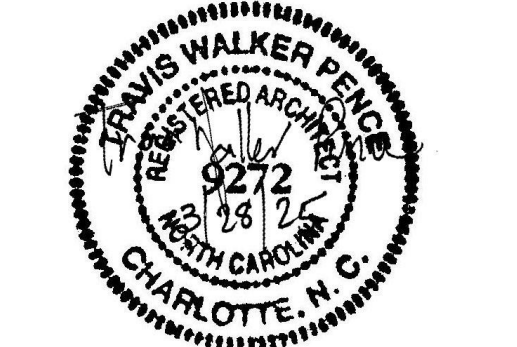
REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	M-001	MECHANICAL GENERAL NOTES, LEGEND, AND SCHEDULES
		03-28-2025	M-101	MECHANICAL FLOOR PLAN

ELECTRICAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME
		03-28-2025	E-001	ELECTRICAL NOTES, LEGEND AND SCHEDULES
		03-28-2025	E-101	ELECTRICAL POWER PLAN
		03-28-2025	E-102	ELECTRICAL LIGHTING PLAN
		03-28-2025	E-201	ELECTRICAL ENLARGED PLANS
		03-28-2025	E-301	ELECTRICAL RISERS AND DETAILS
		03-28-2025	E-302	ELECTRICAL PANEL SCHEDULES



Air Field Hangar
Building
222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -
PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER
STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
SABER
ENGINEERING
10200 Mallard Creek Rd, Suite 105
Charlotte, NC 28262

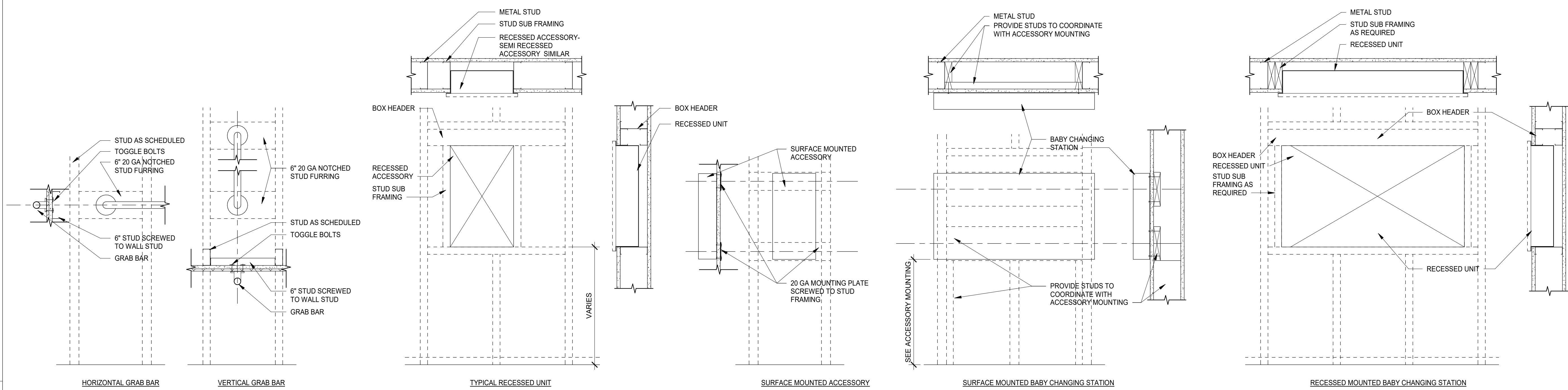
COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

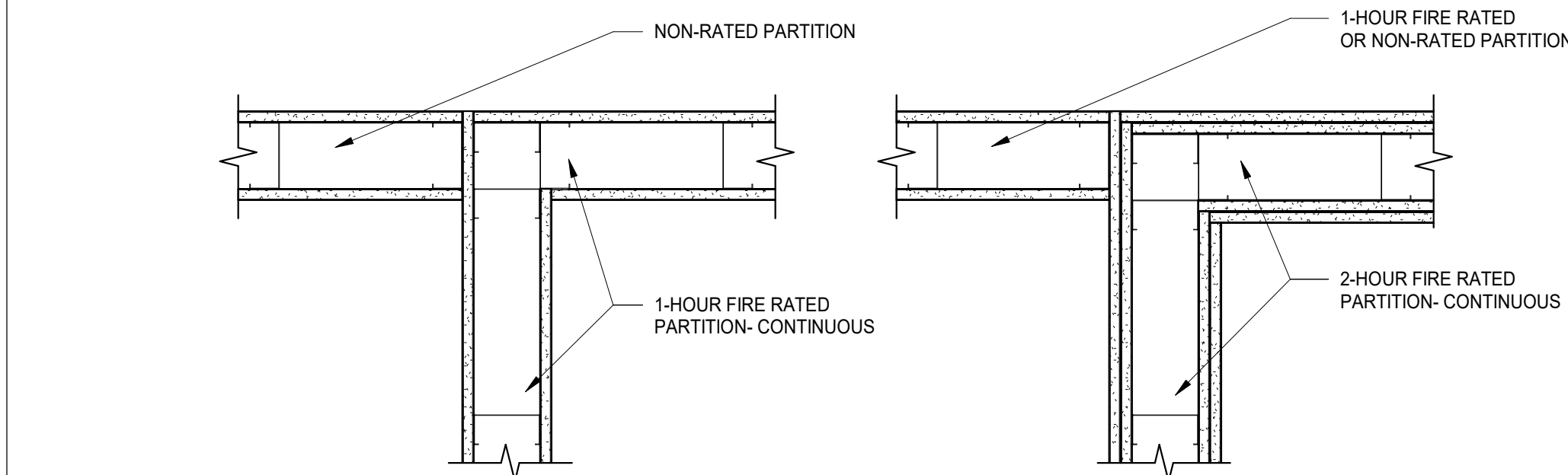
DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

SHEET INDEX

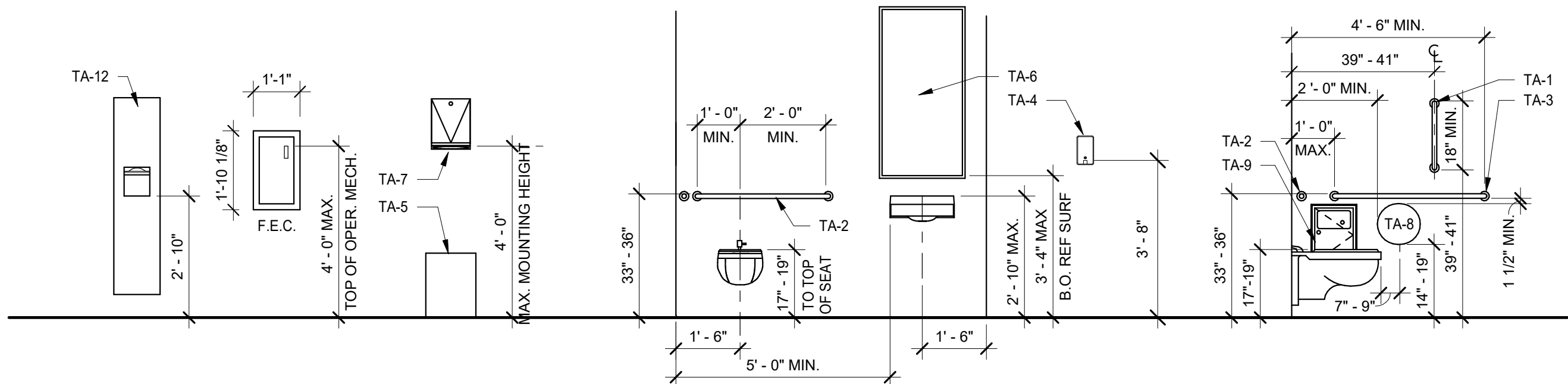
SHEET NUMBER
G-001



16 ACCESSORY MOUNTING DETAILS
1" = 1'-0"



11 RATED INTERSECTION DETAILS
1 1/2" = 1'-0"



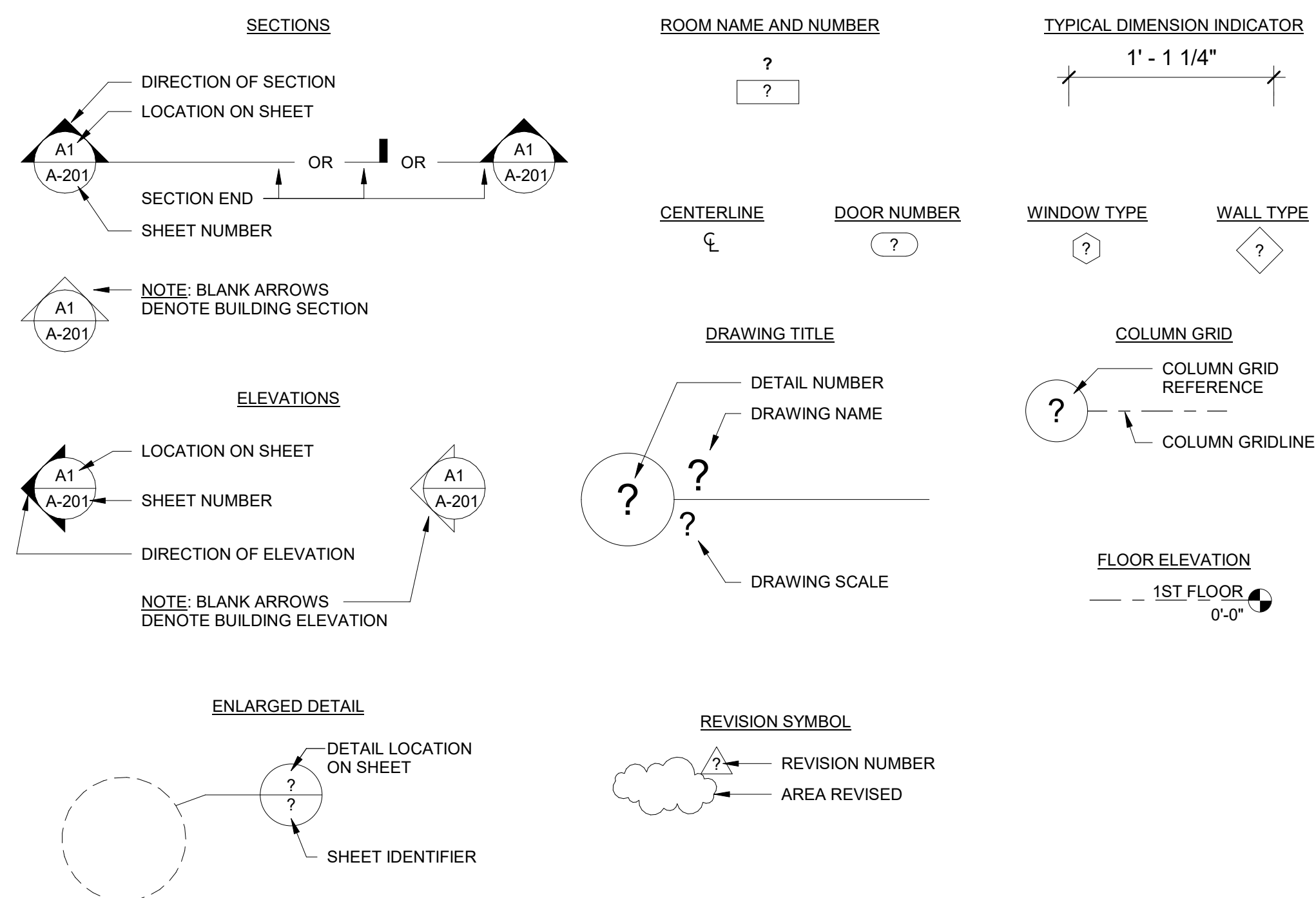
Typical Mounting Heights
N.T.S.

PLAN AND SECTION			ELEVATION		
	EARTH		PLASTER, CEMENT, SAND, GROUT		BRICK
	POROUS FILL (STONE OR GRAVEL)		STEEL, IRON		GLASS
	ROCK		ALUMINUM		CONCRETE / PLASTER / STUCCO
	LIGHTWEIGHT CONCRETE (OR CONCRETE FILL)		WOOD (FINISH)		SHINGLES / SIDING
	STRUCTURAL CONCRETE (CAST IN PLACE, ETC.)		WOOD (ROUGH)		GYPSUM WALL BOARD
	BRICK (COMMON OR FACE)		WOOD BLOCKING		CARPET AND PAD
	CONC. MASONRY UNITS (C.M.U.)		PLYWOOD		

(NOT ALL MATERIALS APPLICABLE)

8 MATERIAL LEGEND
N.T.S.

9 MATERIAL LEGEND
1/8" = 1'-0"



3 GRAPHIC SYMBOLS
N.T.S.

SYMBOLS USED AS ABBREVIATIONS:

SYMBOL	ABBREVIATION	SYMBOL	ABBREVIATION
ANGLE	ANGLE	LB./LB.	POUND/POUNDS
CENTERLINE	CENTERLINE	#	PLUS OR MINUS
DIAMETER (ROUND)	DIAMETER (ROUND)	W/	WITH
NUMBER	NUMBER	W/O	WITHOUT
ABBREVIATIONS:	ABBREVIATIONS:	MAINT	MAINTENANCE
A/C	AIR CONDITION(ING)	MATL	MATERIAL
ADMIN	ADMINISTRATION	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MEZZ	MEZZANINE
ALUM	ALUMINUM	MFG	MANUFACTURING
APPROX	APPROXIMATE(LY)	MFR	MANUFACTURER
ARCH	ARCHITECT(URAL)	MIN	MINIMUM
AUTO	AUTOMATIC	MISC	MISCELLANEOUS
AUX	AUXILIARY	MSO	MASONRY OPENING
AV	AUDIO/VISUAL	MR	MOISTURE RESISTANT
BITUM	BITUMINOUS	MTD	MOUNTED
BLD	BUILDING LINE	MTG	MOUNTING
BLDG	BUILDING	MTL	METAL
BN	BULL NOSE	N	NORTH
BOS	BOTTOM OF STEEL	NIC	NOT IN CONTRACT
BOT	BOTTOM	NOM	NOMINAL
CAB	CABINET	NON COMB	NON-COMBUSTIBLE
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CL	CENTER LINE	OC	ON CENTER
CLG	CEILING	OD	OUTSIDE DIAMETER
CLG HT	CEILING HEIGHT	OPP	OPPOSITE
CLO	CLOSET	OPT	OPTION(AL)
CLR	CLEARANCE	PCF	POUNDS PER CUBIC FEET
CMU	CONCRETE MASONRY UNIT	PLAM	PLASTIC LAMINATE
COL	COLUMN	PLF	POUNDS PER LINEAR FEET
CONC	CONCRETE	PLYWD	PLYWOOD
CONF	CONFERENCE	PNL	PANEL
CONT	CONTINUE	PR	PAIR
CORR	CORROSION	PREFAB	PREFABRICATED
CU FT	CUBIC FOOT	PREFIN	PREFINISH
CU YD	CUBIC YARD	PRKG	PARKING
DEMO	DEMOLISH	PSF	POUNDS PER SQUARE FOOT
DEPT	DEPARTMENT	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	PT	PAINT, POST-TENSIONED, PRE-TREATED
DF	DRINKING FOUNTAIN	PVC	POLYVINYL CHLORIDE (PLASTIC)
DIA	DIAMETER	QTR	QUARTER
DIAG	DIAGONAL	QTY	QUANTITY
DIM	DIMENSION	R	RADIUS, RISER
DIV	DIVISION	RCP	REFLECTED CEILING PLAN
DS	DOWNSPOUT	RD	ROOF DRAIN
E	EAST	REF	REFRIGERATOR, REFERENCE
EA	EACH	REQD	REQUIRED
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	RL	ROOF LEADER
EJ	EXPANSION JOINT	RM	ROOM
ELEV	ELEVATION	RO	ROUGH OPENING
ELEV	ELEVATOR	ROW	RIGHT OF WAY
ENCL	ENCLOSE(D)	S	SOUTH
EOS	EDGE OF SLAB	SC	SOLID CORE
EQ	EQUAL	SD	STORM DRAIN
EQUIP	EQUIPMENT	SECT	SECTION
EWC	ELECTRIC WATER COOLER	SF	SQUARE FEET
EXIST	EXISTING	SIM	SIMILAR
EXP JT	EXPANSION JOINT	SPEC	SPECIFICATION
EXT	EXTERIOR	SPKR	SPEAKER
F	FACE TO FACE	SQ	SQUARE
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FE	FIRE EXTINGUISHER	STD	STANDARD
FEC	FIRE EXTINGUISHER CABINET	STOR	STORAGE
FF EL	FINISH FLOOR ELEVATION	SUSP	SUSPENDED
FHC	FIRE HOSE CABINET	SYS	SYSTEM
FIN FLR	FINISHED FLOOR	T	TREAD
FLR	FLOOR, FILLER	TEL	TELEPHONE
FOC	FACE OF CURB	TEMP	TEMPORARY
FOF	FACE OF FINISH	TF	TOP OF FINISH FLOOR
FOM	FACE OF MASONRY	THK	THICKNESS
FOS	FACE OF SLAB	THRU	THROUGH
FOW	FACE OF WALL	TO	TOP OF
FT	FOOT, FEET	TOB	TOP OF BEAM
FTG	FOOTING	TOC	TOP OF CONCRETE, CURB
FURN	FURNISH, FURNITURE	TOF	TOP OF FOOTING
GA	GAGE	TOJ	TOP OF JOIST
GALV	GALVANIZED	TOM	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TOP	TOP OF PARAPET
GYP BD	GYPSUM BOARD	TOS	TOP OF SLAB
GYP PLAS	GYPSUM PLASTER	TOW	TOP OF WALL
HC	HANDICAP	TRTD	TREATED
HD	HEAVY DUTY	TV	TELEVISION
HDWR	HARDWOOD	TYP	TYPICAL
HM	HOLLOW METAL	UL	UNDERWRITERS LABORATORIES
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HT	HEIGHT	VERT	VERTICAL
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VEST	VESTIBULE
ID	INSIDE DIAMETER	VIF	VERIFY IN FIELD
INCL	INCLUDE(D), (ING)	W	WEST, WIDE
INFO	INFORMATION	W/	WITH
INSUL	INSULATION	W/O	WITHOUT
INT	INTERIOR	W/W	WALL TO WALL
JAN CLO	JANITOR CLOSET	WC	WATER CLOSET
KIT	KITCHEN	WD	WOOD
KO	KNOCKOUT	WP	WORKING POINT, WATERPROOFING
LAB	LABORATORY	WR	WATER REPELLENT
LAM	LAMINATE	WT	WEIGHT
LAU	LAUNDRY	WWF	WELDED WIRE FABRIC
LAV	LAVATORY	YD	YARD
LF	LINEAR FEET		
LVR	LOUVER		

10 STANDARD ABBREVIATIONS
1 1/2" = 1'-0"

16	17	18	19	20
11	12	13	14	15
6	7	8	9	10
1	2	3	4	5

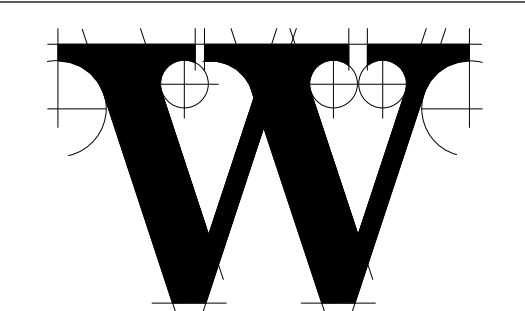
NOTES:
1. WHEN LESS THAN ALL TWENTY (20) DETAIL ZONES ARE UTILIZED OR WHEN ZONES ARE COMBINED, DETAIL NUMBERS WILL NOT BE CONSECUTIVE.
2. THE ZONE IN WHICH THE LOWER LEFT HAND CORNER OF A DETAIL IS LOCATED DETERMINES THE NUMBER OF THE DETAIL.

5 NUMBERING SYSTEM
N.T.S.



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.

P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.

P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER

STEWART
ENGINEERING

101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING

10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

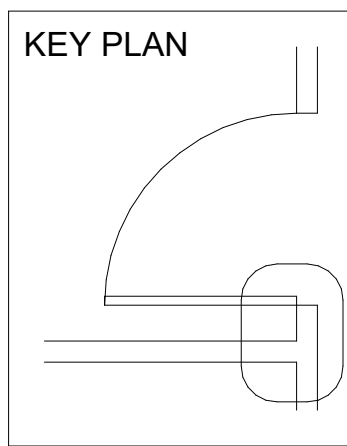
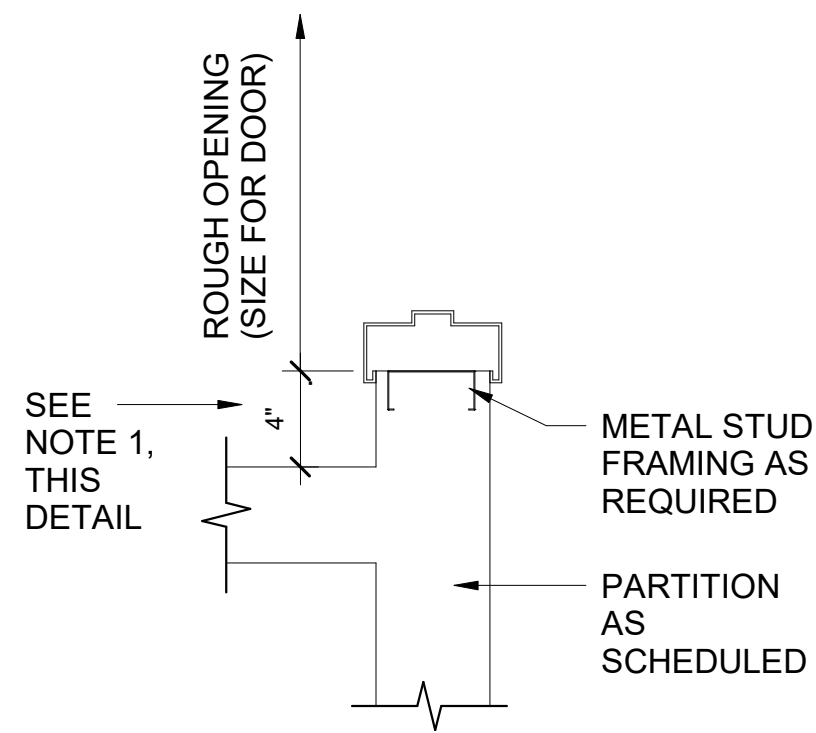
DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

GENERAL NOTES

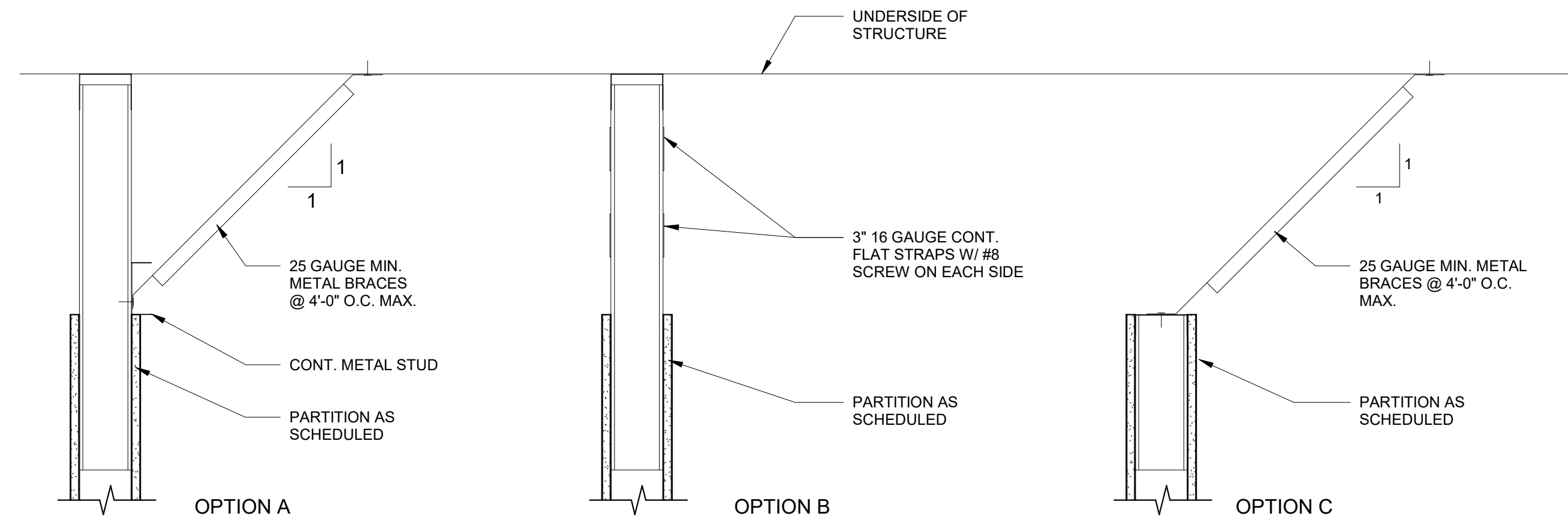
SHEET NUMBER

G-002

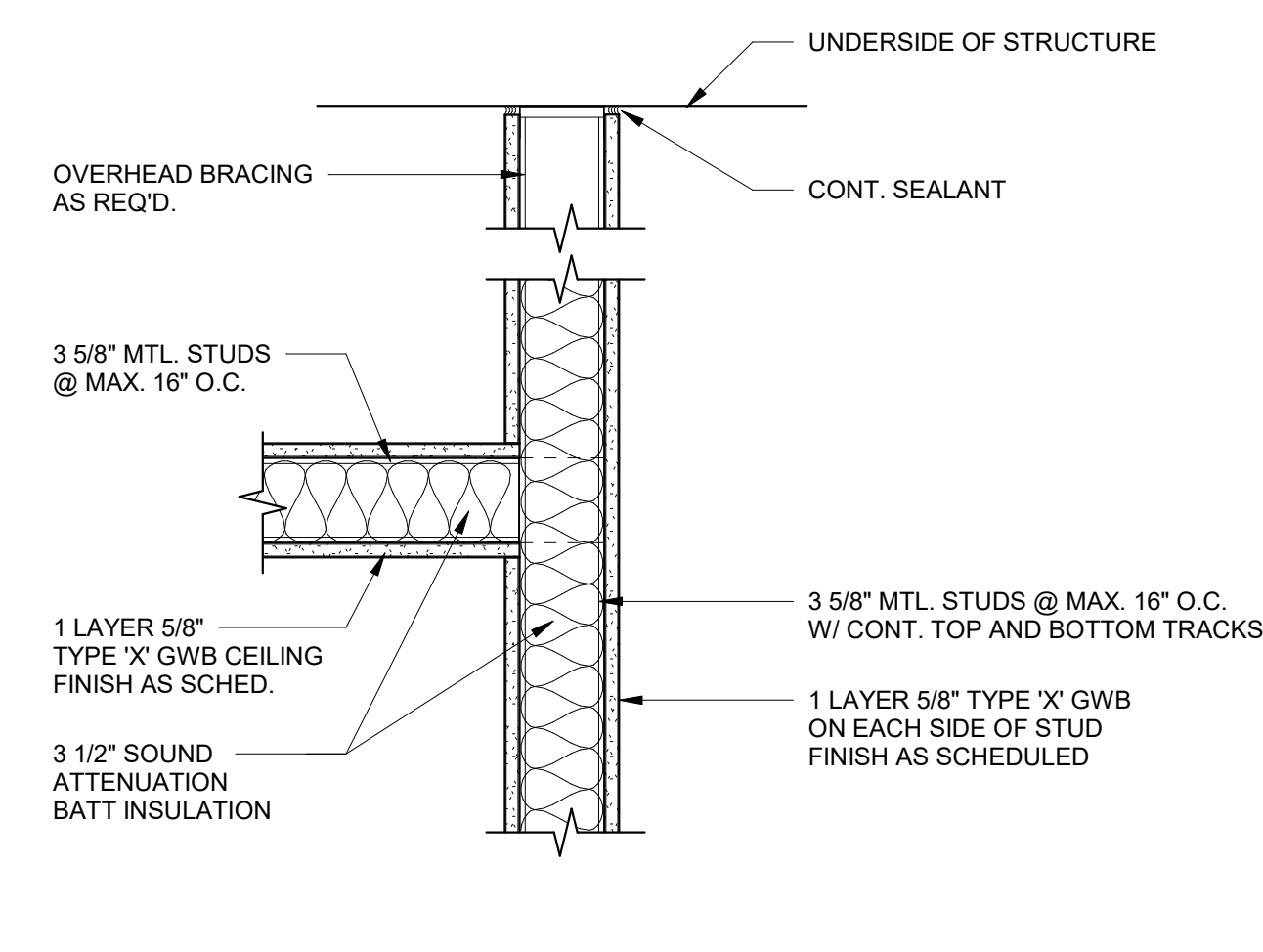
NOTES:
1. GC TO COORDINATE JAMB DEPTH
WITH WIDTH OF TRIM.
2. GC TO COORDINATE DOOR
LOCATION W/ JAMB DETAIL, TYP.



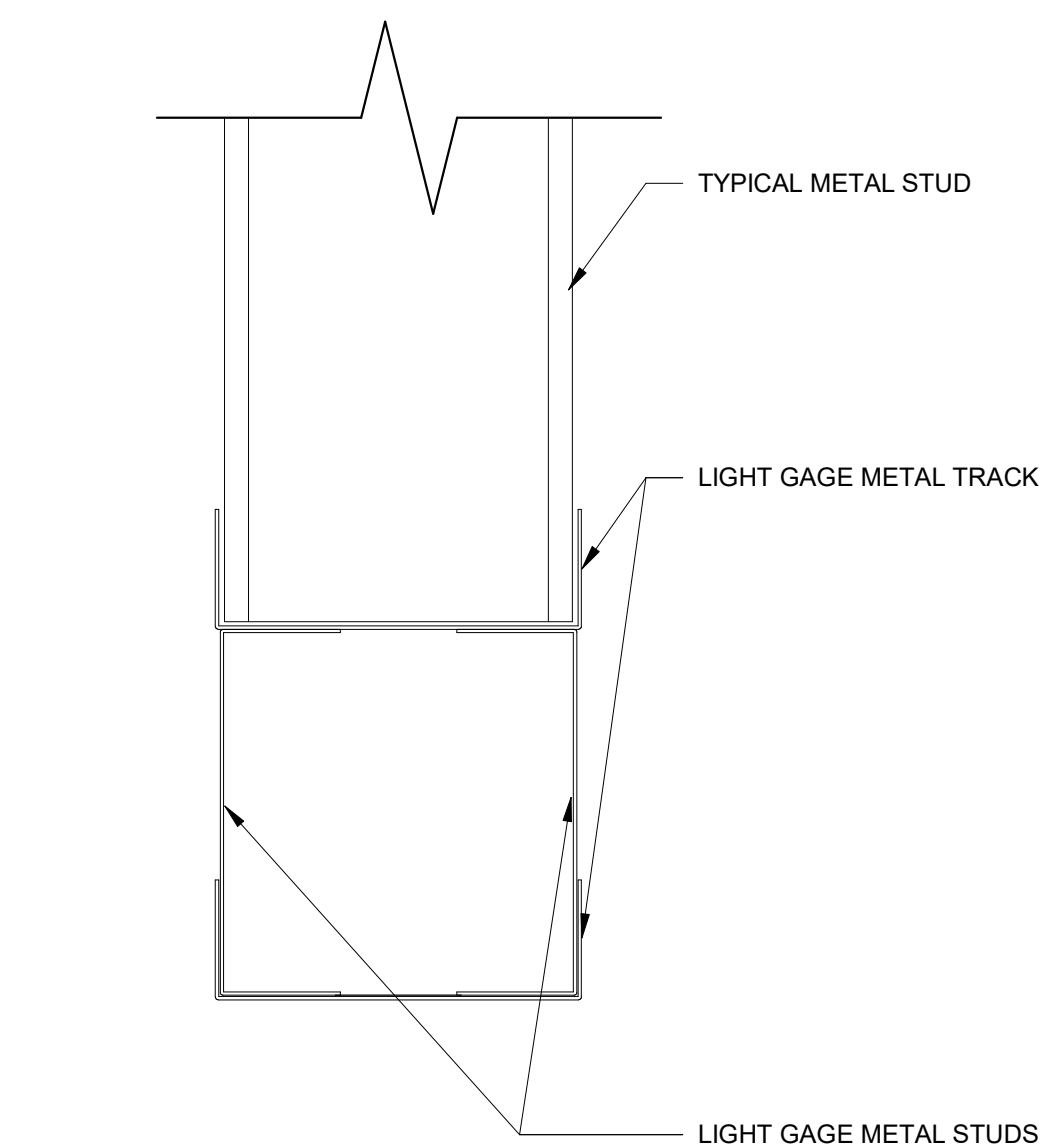
16 TYPICAL DOOR OFFSET DETAIL
1 1/2" = 1'-0"



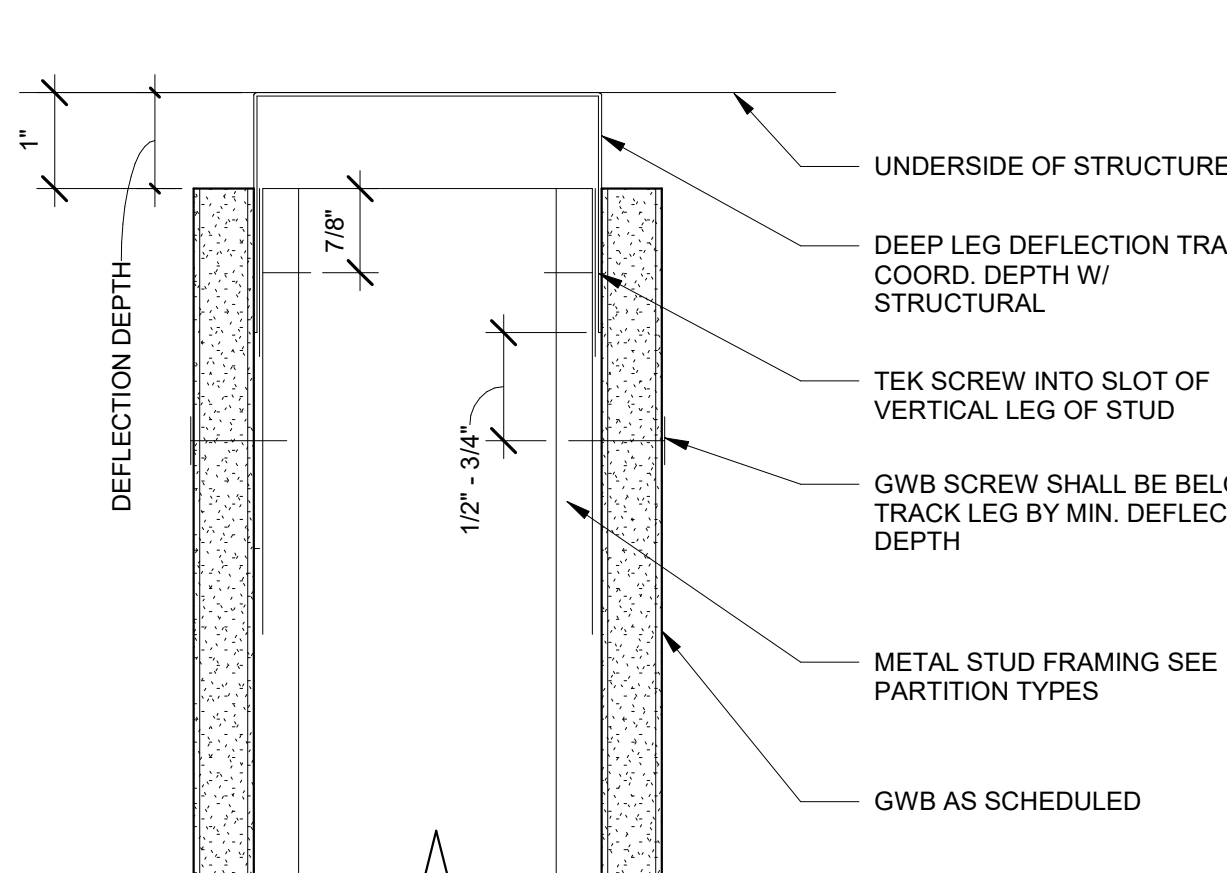
17 ABOVE-CEILING STUD TERMINATION DETAILS
1 1/2" = 1'-0"



12 TYPICAL GWB CEILING DETAIL
1 1/2" = 1'-0"



13 TYPICAL STUD HEADER DETAIL
6" = 1'-0"



14 DEFLECTION TRACK DETAIL
6" = 1'-0"

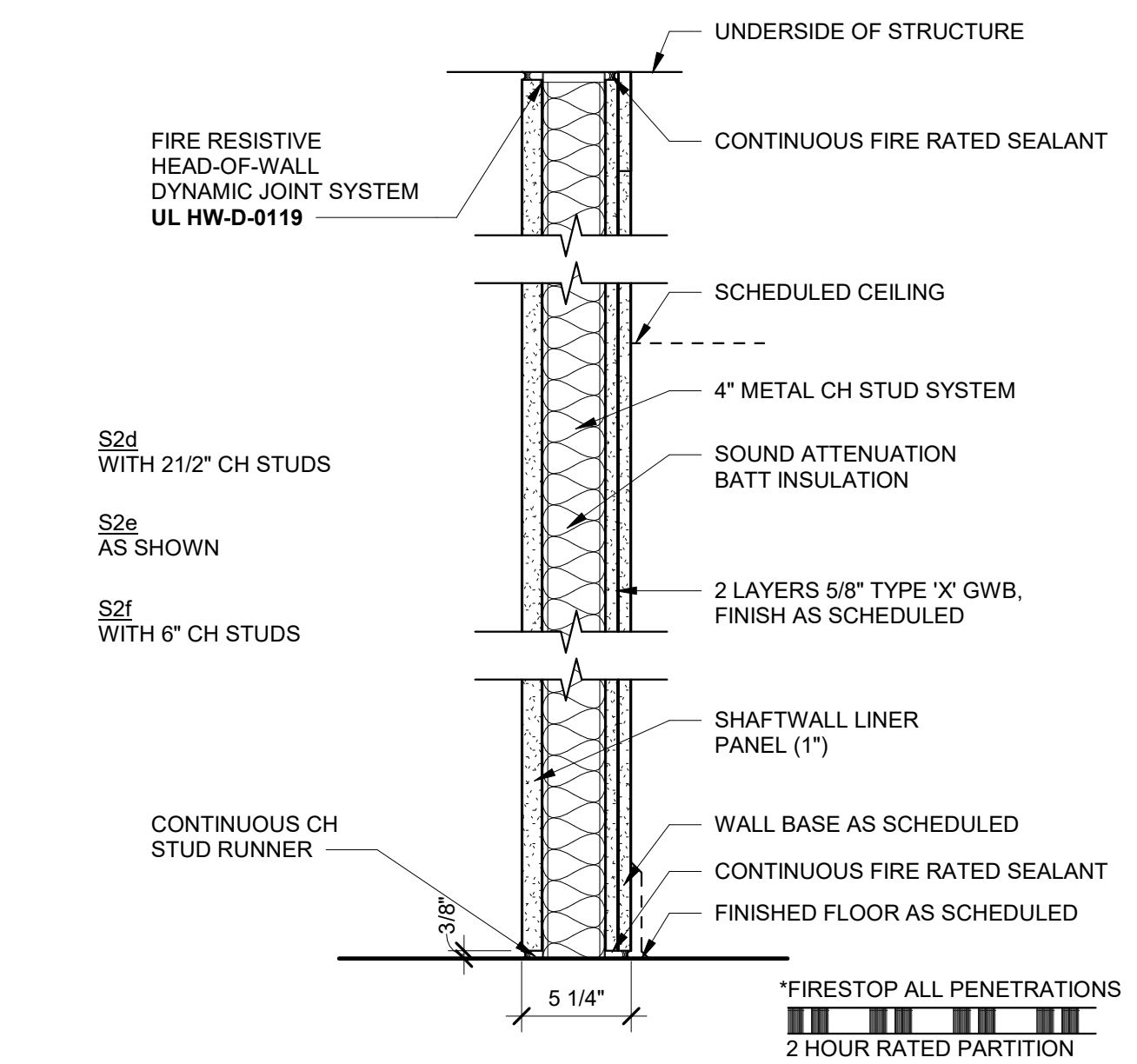
19 TYPICAL FRAMING LAYOUT
1 1/2" = 1'-0"

PARTITION NOTES

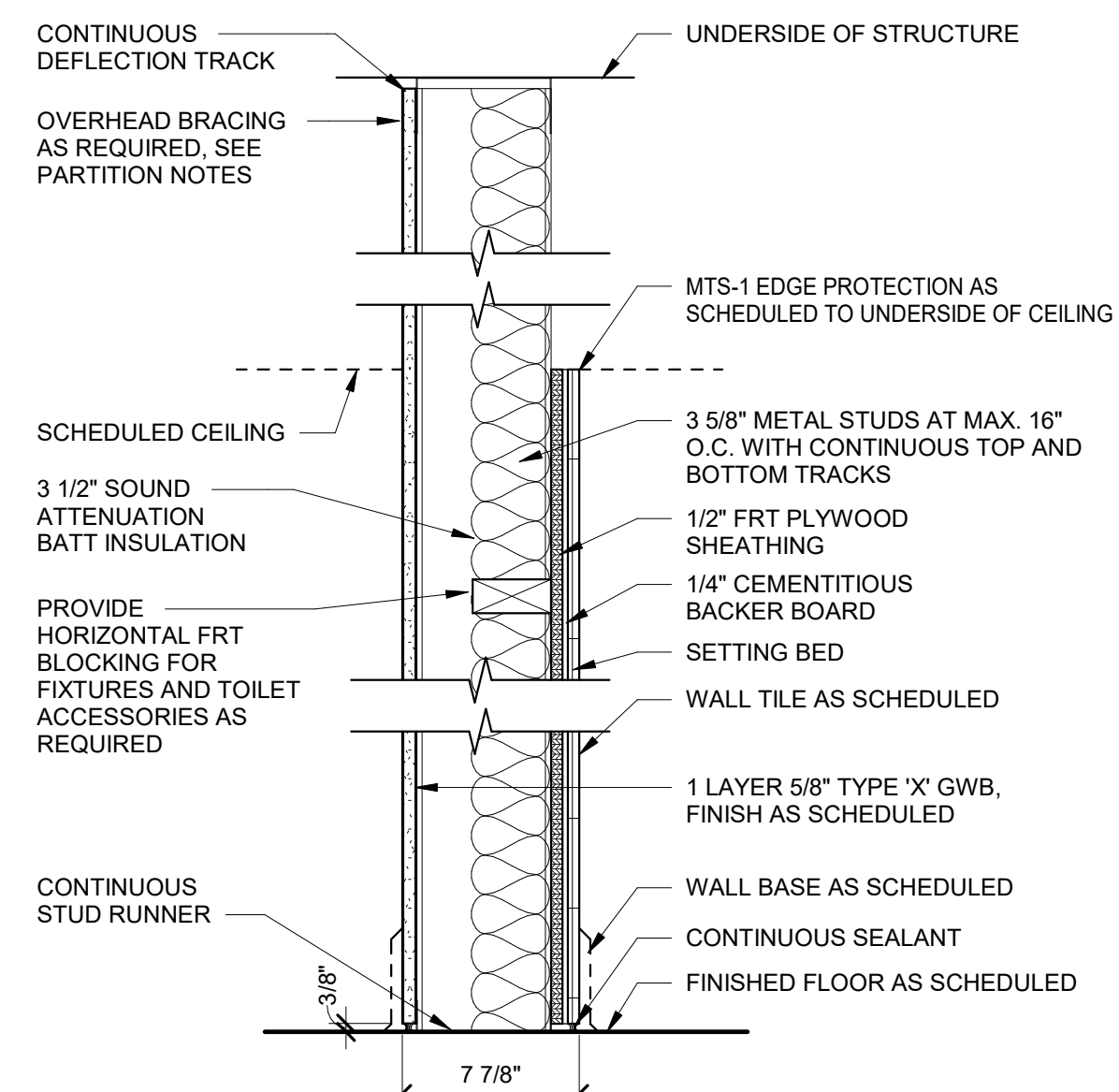
- ALL GYPSUM WALL BOARD TO BE 5/8" TYPE 'X' U.N.O.
- UNLESS NOTED OTHERWISE, DIMENSIONS ARE TO COLUMN CENTER LINE, FACE OF GWB/STUD PARTITIONS, FACE OF MASONRY AND CONCRETE WALLS AND FACE OF EXISTING WALLS.
- HOLD TOP OF PARTITION DOWN 1/2" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE.
- ALL CAULK AND SEALANT SHALL BE CONTINUOUS.
- ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK AND BE ENTIRELY SEALED OFF U.N.O. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF PENETRATION.
- ALL FIRE AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH SAFING MATERIAL ONLY. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS GYPSUM WALL BOARD OR UL LISTED FIRE PROOFING MATERIAL AND ASSEMBLY.
- ALL SOUND RATED (STC) WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST.
- STRUCTURAL STUDS (20 GA. MINIMUM) SHALL BE USED WHERE ANY NON-SELF-SUPPORTING WALL HUNG FIXTURES, EQUIPMENT, OR CABINETS OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS.
- ALL METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. BRACING SHALL BE AS FOLLOWS:
ATTACH A 3 5/8" OR 6" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 8" MAXIMUM ABOVE FINISHED CEILING. PROVIDE 3 5/8" OR 6" METAL STUD KICKERS AT 45 DEGREE ANGLE TO STRUCTURE AT 4'-0" O.C.
- KICKERS SHALL HAVE CLIP ANGLES (14 GA MIN.) WITH TWO 1/4" ANCHORS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING.
- DO NOT FASTEN TOP RUNNER TO STUDS; CRIMP RUNNER ON BOTH SIDES OF STUD TO STABILIZE STUD.
- SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.
- WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISHED FACE, AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTION OF SUCH PARTITIONS.
- WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING.
- PURSUANT TO NCSCB 603 ALL WOOD PRODUCTS SHALL BE FIRE-RETARDANT TREATED (FRT), INCLUDING BUT NOT LIMITED TO WOOD BLOCKING, CABINETS AND MILLWORK SUBSTRATES, AND EXPOSED PLYWOOD PANELS.
- WHERE SPECIALTY WALL PANEL SYSTEMS ARE TO BE APPLIED TO PARTITIONS, SHIMMING MAY BE REQUIRED TO ENSURE A FLUSH AND PLUMB INSTALLATION.
- ELECTRICAL AND TELECOM ROOMS, IN ADDITION TO GWB AS SCHEDULED, WRAP ENTIRE ROOM IN 3/4" VIRGIN, VOID-FREE, FIRE-RATED PLYWOOD, FROM 0'-6" AFF TO 8'-6" AFF, LAG-BOLTED TO WALLS AT METAL STUD LOCATIONS. PAINT ALL WALL SURFACES AS SCHEDULED.
- ALL CLOSETS ARE TO RECEIVE WOOD SHELVING AND ROD U.N.O.
- PROVIDE FR SOLID WOOD BLOCKING IN WALL AS REQUIRED FOR MOUNTING OF CABINETS, GRAB BARS, TVS, TOILET PARTITIONS AND ACCESSORIES, ETC. SEE PLANS AND ELEVATIONS FOR LOCATIONS OF WALL-MOUNTED BUILT-INS AND EQUIPMENT.
- USE MOISTURE RESISTANT GWB AT ALL WET AREAS.
- SEE STRUCTURAL FOR SHEAR WALL LOCATIONS AND INFORMATION. GC TO COORDINATE SHEATHING SIDE AND EXTENTS WITH ARCHITECTURAL AND STRUCTURAL.

METAL STUD GAUGES	LOCATION	LENGTH	GAUGE
PARTITION	PARTITION	UP TO 8'-0"	20 GAUGE
PARTITION	PARTITION	UP TO 10'-0"	18 GAUGE
PARTITION	PARTITION	UP TO 12'-0"	16 GAUGE
BULKHEAD	BULKHEAD	GREATER THAN 12'-0"	SEE STRUCTURAL DRAWINGS.
BULKHEAD	BULKHEAD	UP TO 6'-0"	25 GAUGE
BULKHEAD	BULKHEAD	UP TO 8'-0"	20 GAUGE
BULKHEAD	BULKHEAD	GREATER THAN 8'-0"	SEE SPECIFIC DETAILS AND/OR STRUCT. DRWGS.
SOFFIT	SOFFIT	UP TO 4'-0"	25 GAUGE
SOFFIT	SOFFIT	UP TO 8'-0"	25 GAUGE. SEE SPECIFIC DETAILS FOR SUPPORT SUSPENDED SYSTEM MUST BE USED
DOOR / WINDOW HEAD AND JAMB	U.N.O.	GREATER THAN 8'-0"	16 GA (2 STUDS AT ALL LOCATIONS)

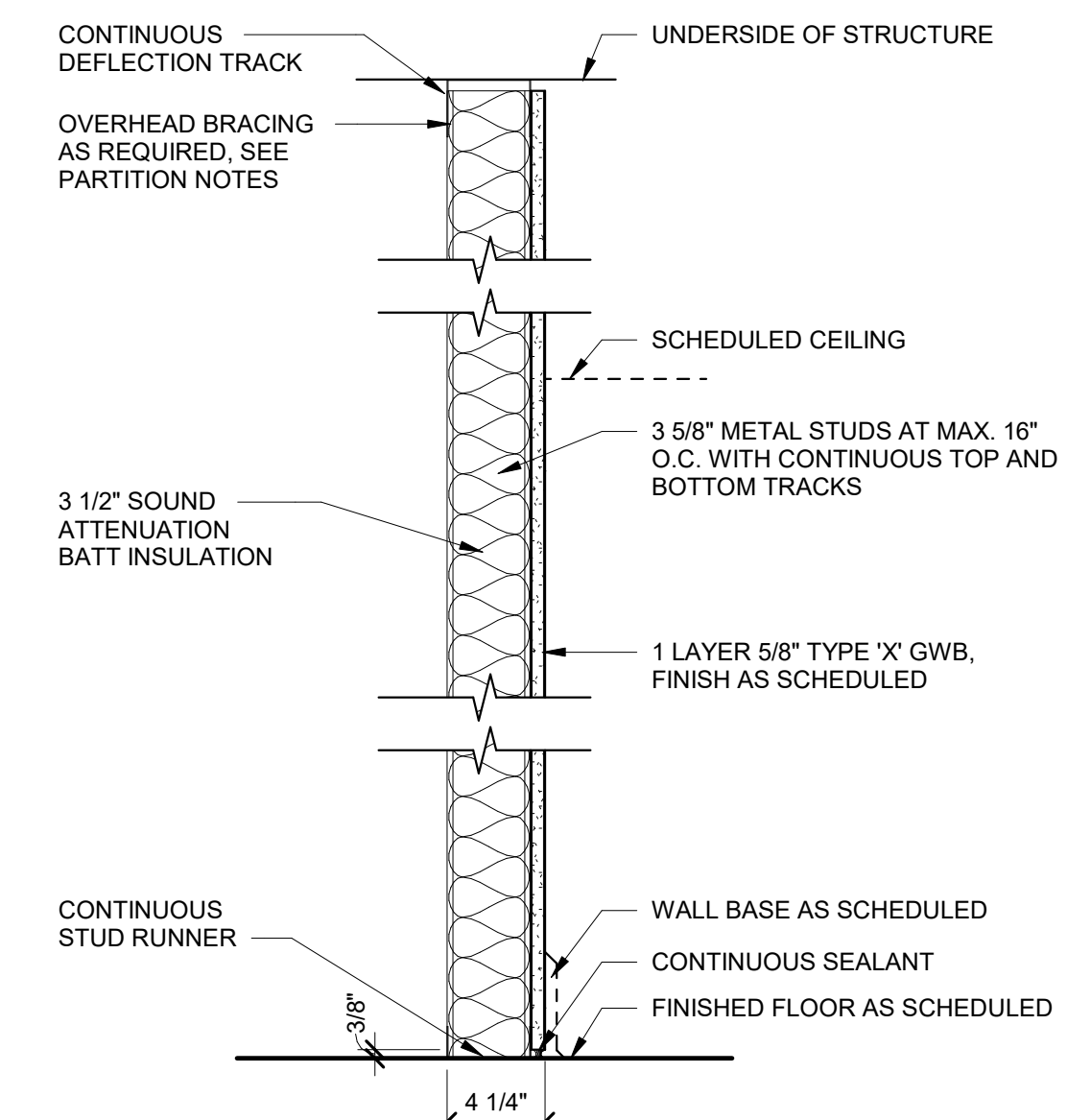
NOTE: U.L. AND STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER THE ABOVE SPECIFICATIONS.



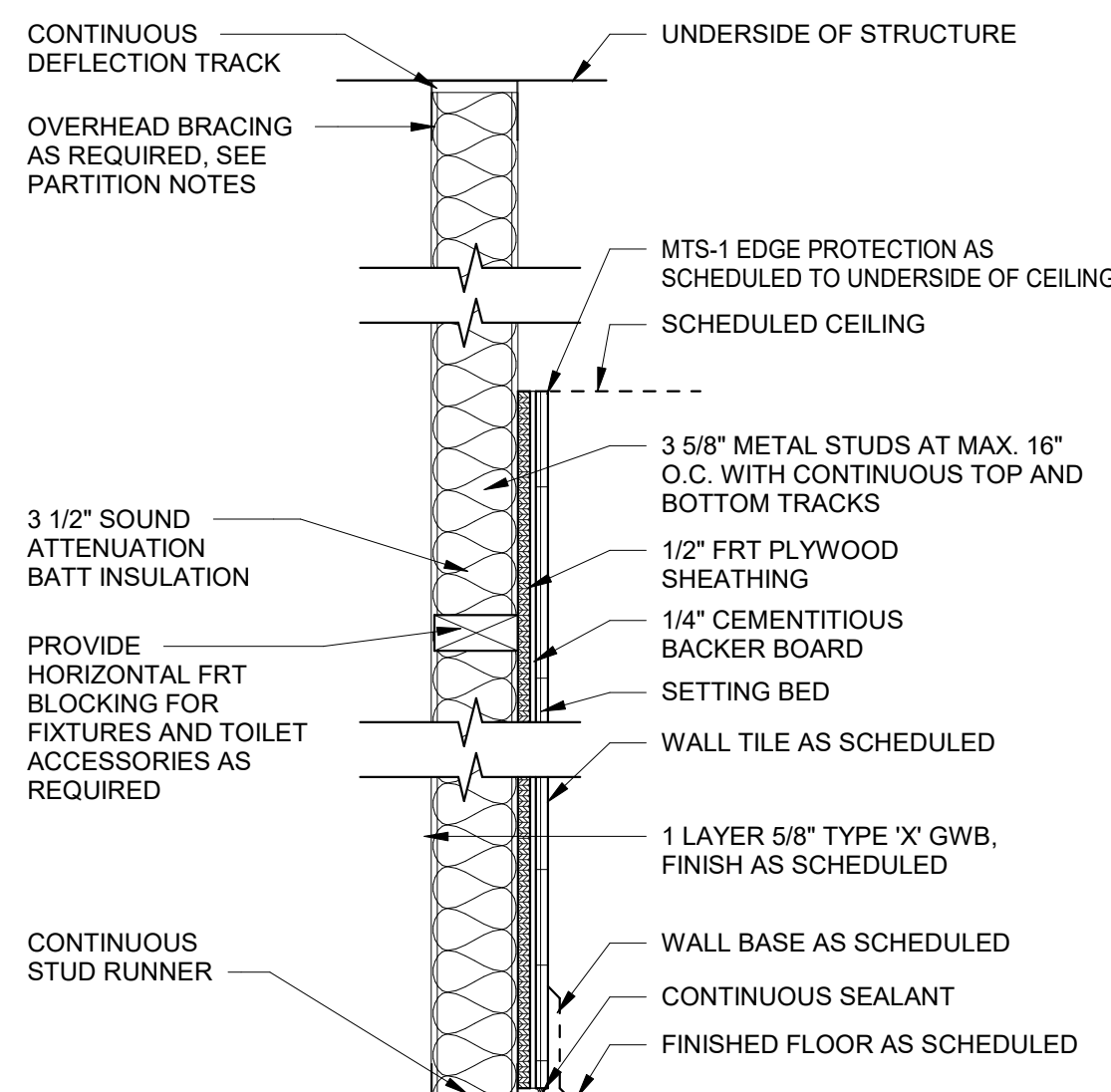
S2e	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	2 HR	U415	N/A	N/A



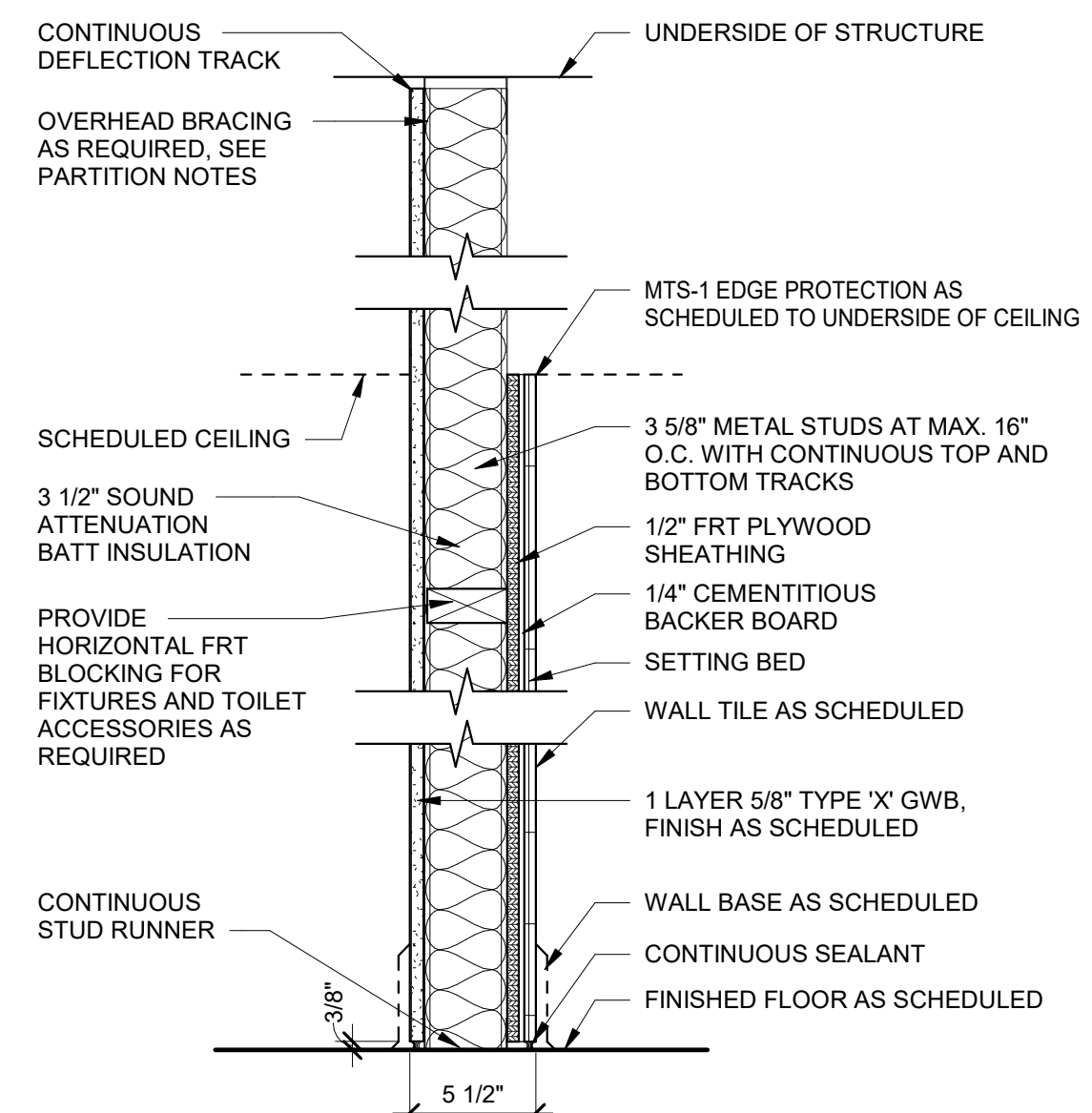
E3a	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A



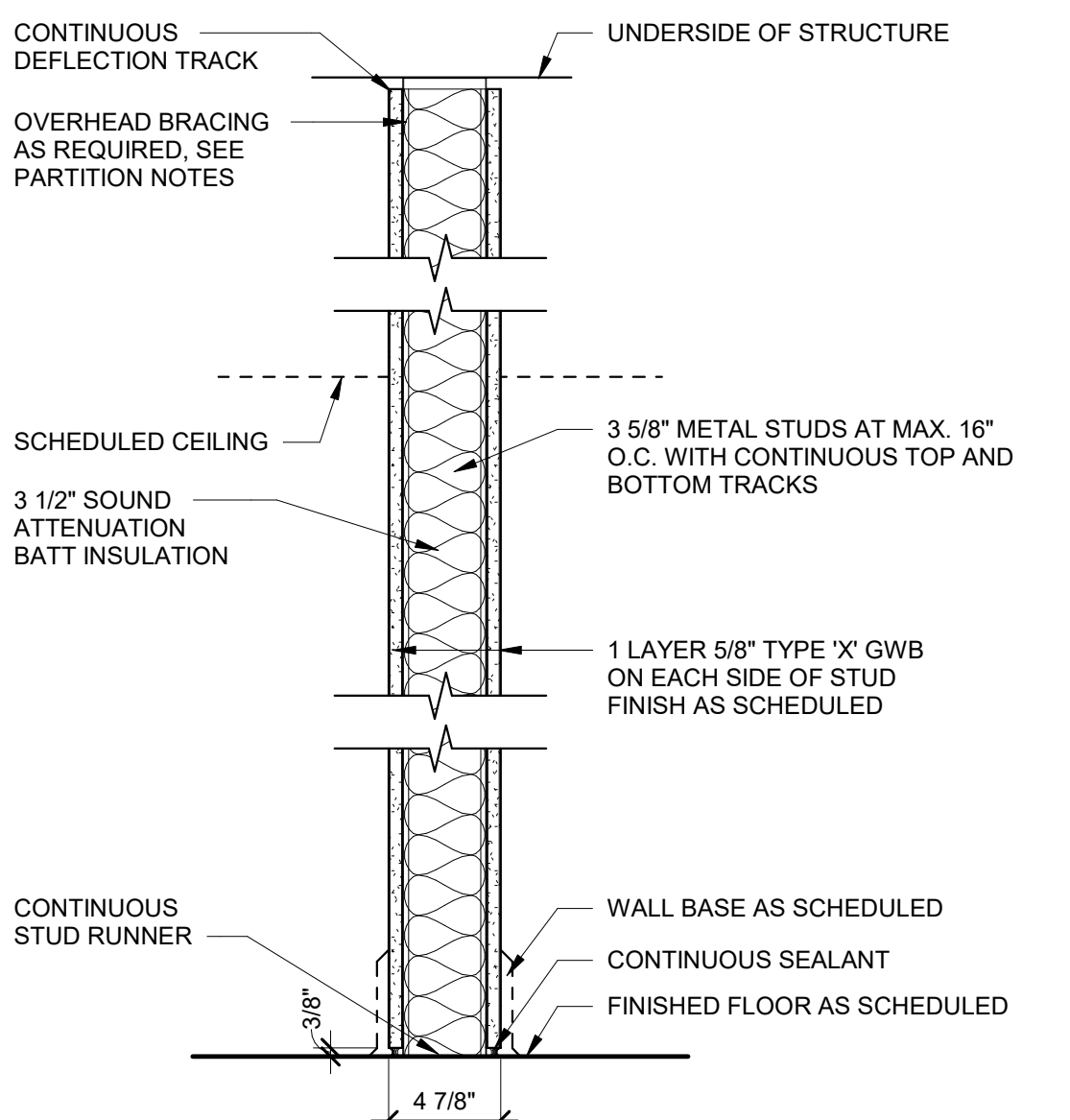
D4a	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A



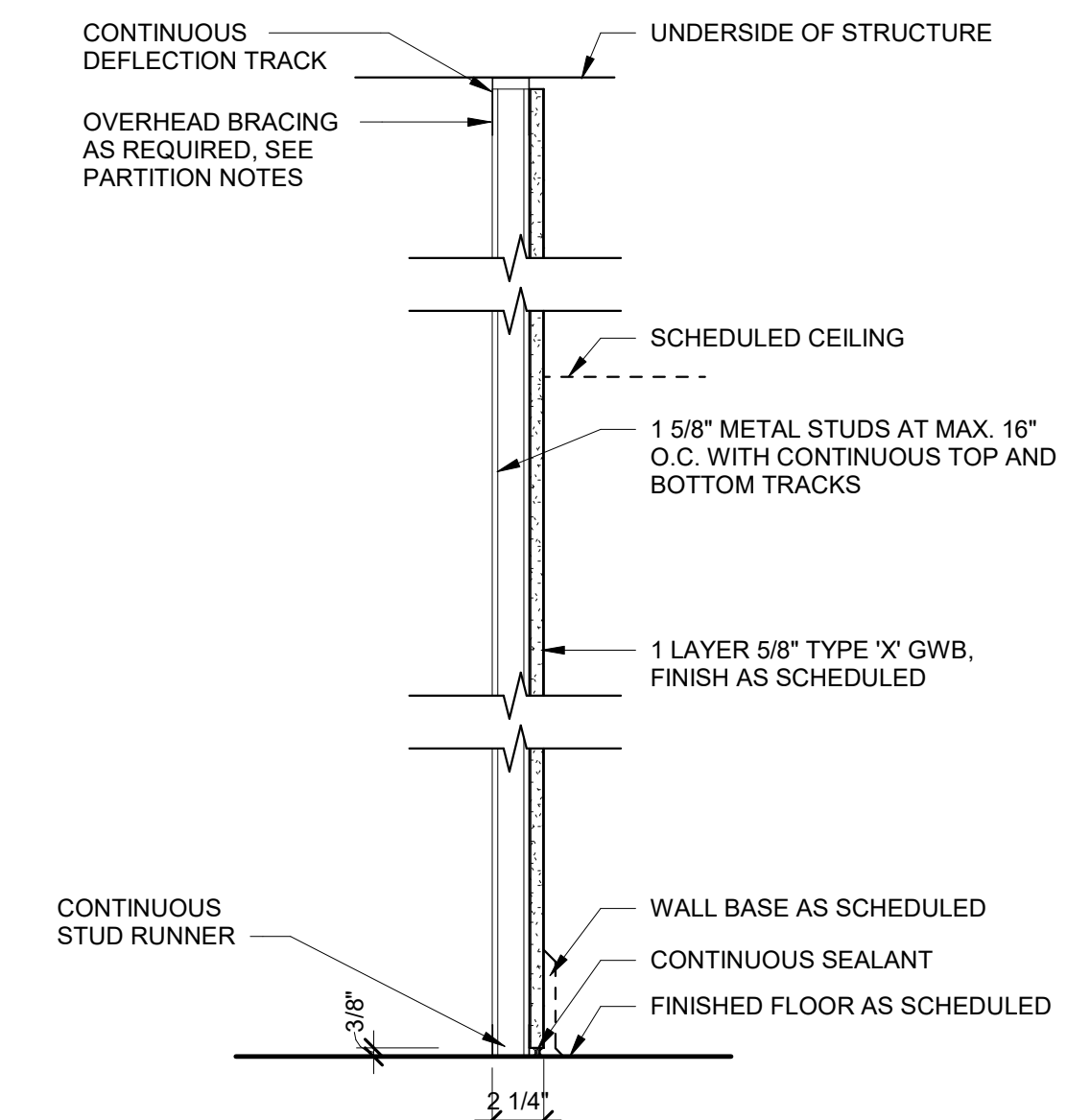
D3b	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A



D3a	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A



D1a	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A



B4a	FIRE RATING	ASSEMBLY NO.	STC	STC TEST #
	0 HR	N/A	N/A	N/A

LIFE SAFETY PLAN CALCULATIONS							
(A)	(B)	(C)	(D)	(E)	(F)	(I)	(J)
ROOM NUMBER	ROOM NAME	OCCUPANCY TYPE	AREA	AREA PER OCCUPANT	ACTUAL OCCUPANTS (D/E)	OTHER INCHES/OCC	OTHER INCHES REQ (F/I)
Level 1							
101	HANGAR	AIRCRAFT HANGAR (GROSS)	11175.34 SF	500.00 SF	23	0.2	4.47"
102	LOBBY	BUSINESS AREA (GROSS)	527.20 SF	100.00 SF	6	0.2	1.05"
103	BREAK ROOM	BUSINESS AREA (GROSS)	107.11 SF	100.00 SF	2	0.2	0.21"
104	CORR	N/A	73.44 SF	0.00 SF		0.2	
105	RESTROOM	N/A	82.50 SF	0.00 SF		0.2	
106	RESTROOM	N/A	82.50 SF	0.00 SF		0.2	
107	CONFERENCE ROOM	BUSINESS AREA (GROSS)	494.43 SF	100.00 SF	5	0.2	0.99"
108	FUTURE	BUSINESS AREA (GROSS)	1534.71 SF	100.00 SF	16	0.2	3.07"
GRAND TOTALS					52		9.80"
					52		9.80"

ROOM TAG

EXIT WIDTH

MAXIMUM AREA DIAGONAL

DISTANCE BETWEEN EXITS

EXIT ACCESS TRAVEL DISTANCE

FEC

PFE

WFE

ROOM NAME

ROOM AREA

ACTUAL CLEAR INCHES

ACTUAL OCCUPANTS

REQUIRED

ALLOWABLE

EXIT SIGN - COORDINATE LOCATIONS AND REQUIREMENTS W/ ELEC DRAWINGS

FEC - FIRE EXTINGUISHER IN FIRE EXTINGUISHER CABINET

PFE - WALL-MOUNTED FIRE EXTINGUISHER

WFE - WHEELED FIRE EXTINGUISHER

FIRE EXTINGUISHER CALCULATIONS

ACTUAL AREA SERVED BY FE:

HAZARD LEVEL:

MIN / SF / A:

EXTINGUISHER TYPE:

SF / EXTINGUISHER:

NUMBER OF EXTINGUISHERS:

MAX. SF OF AREA SERVED:

MAX TRAVEL DISTANCE:

ACTUAL MAX. TRAVEL DISTANCE:

15,600 SF

ORDINARY CLASS ABC

1,500 SF

WFE (4A:60B:C)

6,000 SF

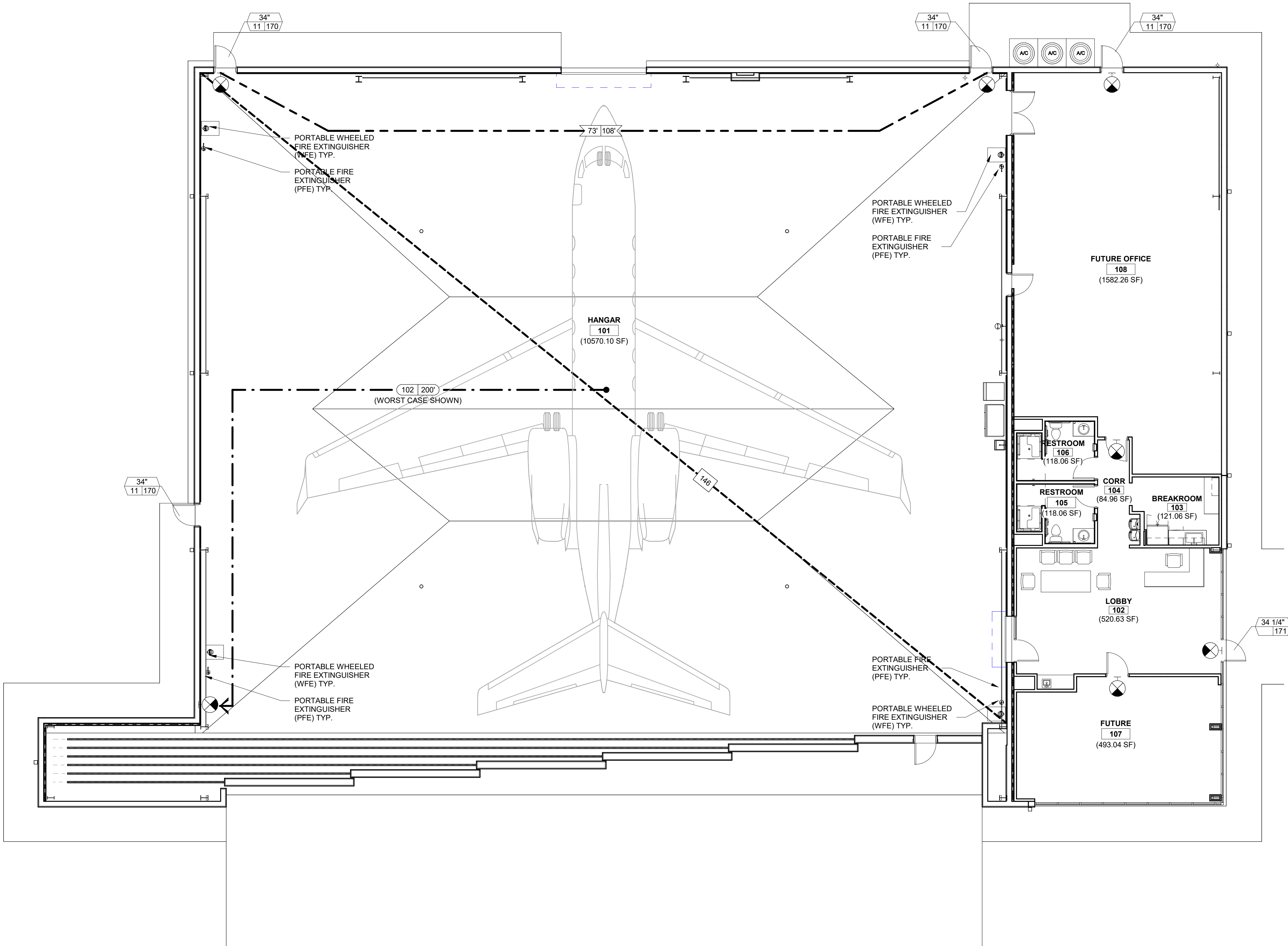
4 WFE

24,000 SF

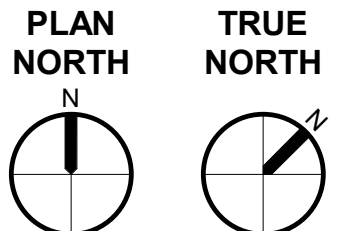
50' SF

50' SF

REQUIRES REVISION



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



Air Field Hangar Building
222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -
PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER
STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
SABER
ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

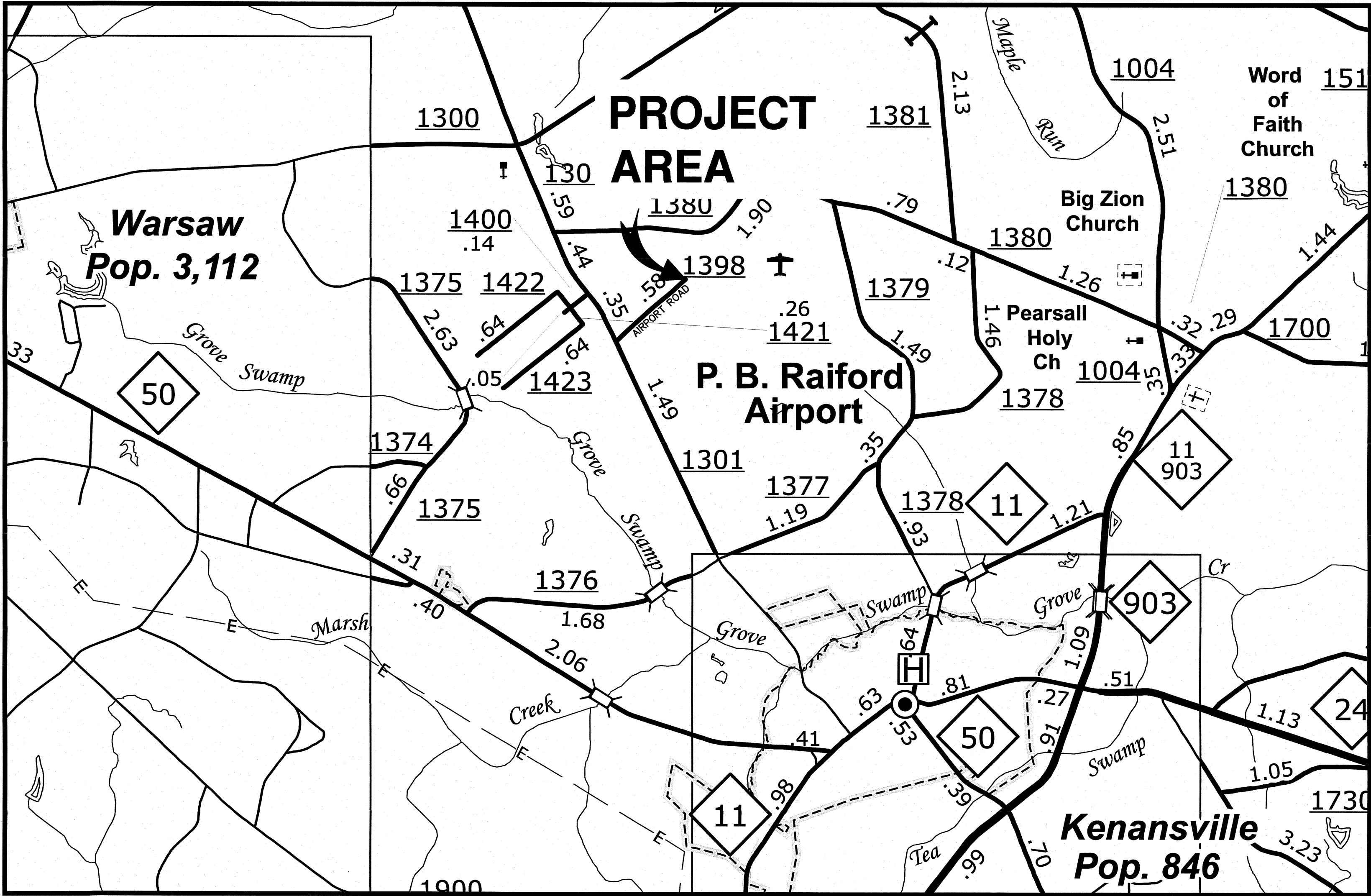
COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE


FIRST FLOOR
LIFE SAFETY

SHEET NUMBER
G-102



DUPLIN COUNTY
2025 AIRPORT HANGER PROJECT
CONTRACT NO. 3 - SITE IMPROVEMENTS
DUPLIN COUNTY, NORTH CAROLINA
MARCH 28, 2025

I CERTIFY THAT THESE PLANS WERE PREPARED UNDER
MY SUPERVISION AND DIRECTION AND THAT THEY ARE
CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.


JOSEPH W. MCKEMEY, PE
NO. REGISTRATION NO. 028431

INDEX OF PLANS
CONTRACT NO. 3 – SITE IMPROVEMENTS

Page	Title
1	COVER SHEET
2	GENERAL CONSTRUCTION NOTES
3	GENERAL CONSTRUCTION NOTES
4	GENERAL CONSTRUCTION NOTES
5	EXISTING SITE CONDITIONS
6	PROPOSED SITE PLAN
7	DRAINAGE AND GRADING PLAN
8	PAVEMENT DETAILS
9	PAVEMENT DETAILS
10	PAVEMENT DETAILS
11	EROSION CONTROL PLAN
12	WATER CONSTRUCTION
13	SANITARY SEWER CONSTRUCTION
14	STORM DRAINAGE CONSTRUCTION
15	STORM DRAINAGE DETAILS
16	STORM DRAINAGE DETAILS
17	WATER CONSTRUCTION DETAILS
18	SANITARY SEWER DETAILS
19	EROSION CONTROL DETAILS
20	EROSION CONTROL DETAILS
21	EROSION CONTROL DETAILS

McDAVID ASSOCIATES, INC.

McDAVID ASSOCIATES, INC.
Corporate License No. C-131
CORPORATE OFFICE
100 E. Main Street
P.O. Box 1776
Farmville, NC 27823
Telephone: (252) 735-7220
Facsimile: (252) 735-7220

BRANCH OFFICE
100 E. Main Street
P.O. Box 1776
Goldboro, NC 27530
Telephone: (919) 735-7351
Facsimile: (919) 735-7351

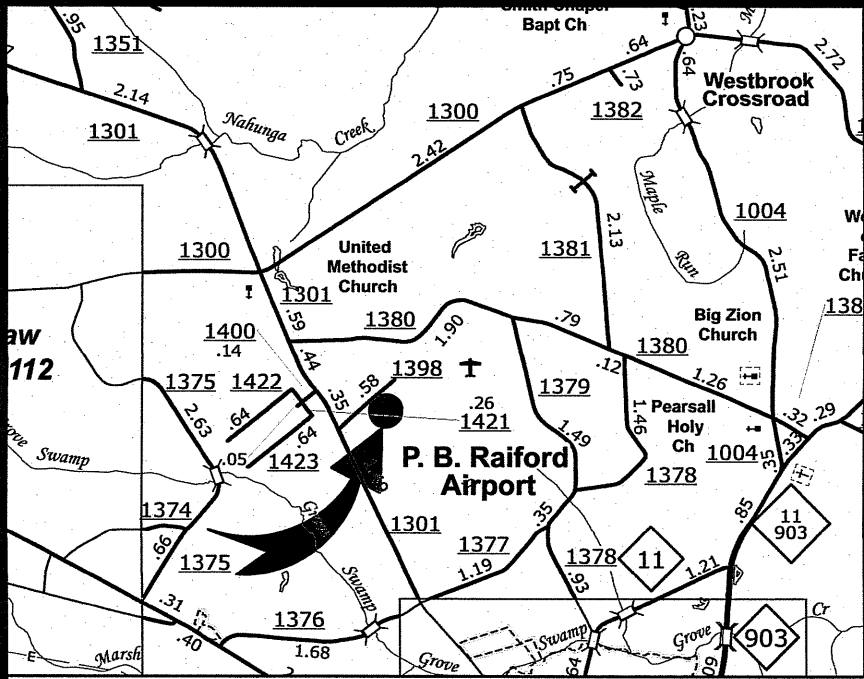
COVER SHEET
CONTRACT NO. 3 - SITE IMPROVEMENTS
2025 AIRPORT HANGER PROJECT
DUPLIN COUNTY
DUPLIN COUNTY

NORTH CAROLINA

DUPLIN COUNTY

FINAL DRAWING
FOR REVIEW PURPOSE ONLY
NOT RELEASED FOR CONSTRUCTION

Drawing: W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\005-Existing Site Conditions.dwg
Layout: 1
Plotted: Friday, May 16, 2025, 4:13:20pm

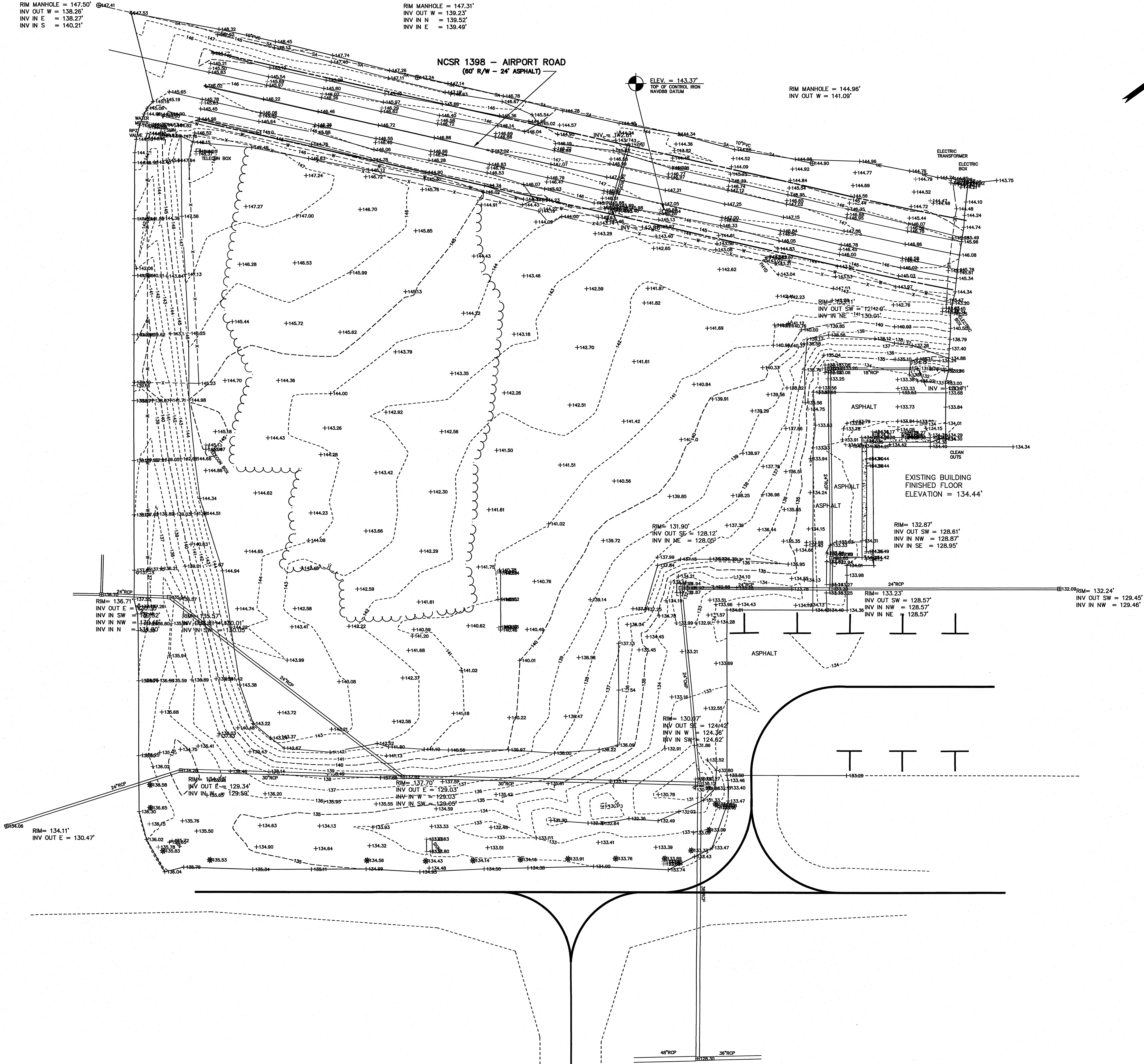


VICINITY MAP

RIM MANHOLE = 147.50'
INV OUT W = 138.26'
INV IN E = 138.27'
INV IN S = 140.21'

RIM MANHOLE = 147.31'
INV OUT W = 139.23'
INV IN N = 139.52'
INV IN E = 139.49'

RIM MANHOLE = 144.96'
INV OUT W = 141.09'



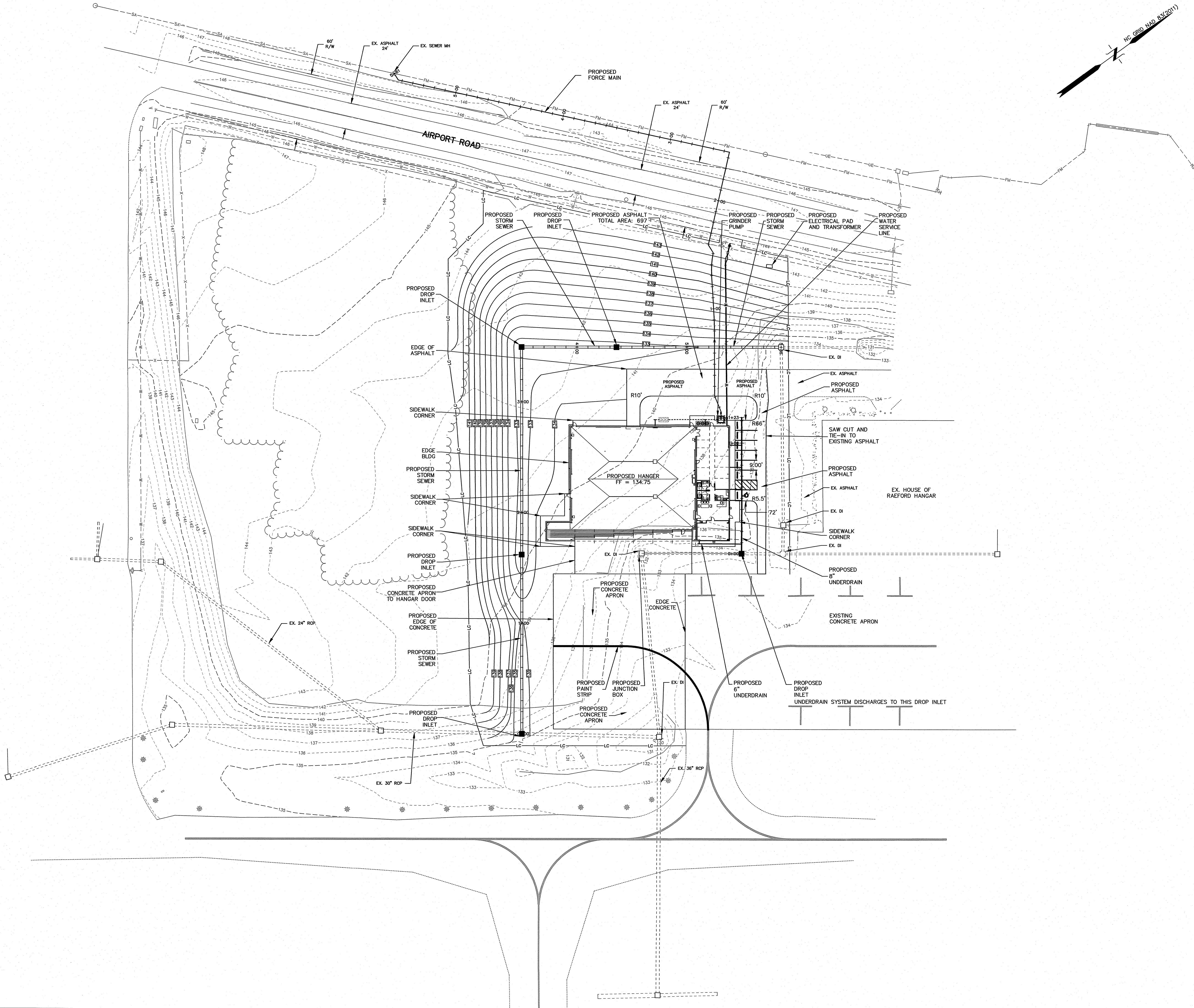
NOTE: VERTICAL DATUM: NAVD88

SHEET 5 OF 21	
EXISTING SITE CONDITIONS CONTRACT NO. 3 - SITE IMPROVEMENTS 2025 AIRPORT HANGER PROJECT DUPLIN COUNTY NORTH CAROLINA	
McDAVID ASSOCIATES, INC. Corporate License No. C-137 CORPORATE OFFICE Engineering 3714 North Main Street P. O. Box 1776 Farmville, NC 28520 Telephone: (252) 755-2139 Facsimile: (252) 755-7220	
BRANCH OFFICE 109 East Walnut Street P. O. Box 1776 Farmville, NC 28520 Telephone: (919) 735-7890 Facsimile: (919) 735-7851	
Professional Engineer SEAL 28431 JOHN W. McDAVID Professional Engineer SEAL 1972 MCDONALD ASSOCIATES, INC. FARMVILLE, N.C.	
PROJECT NO.: 1-25-0305-3402 SCALE: 1" = 40' DATE: MARCH 28, 2025 SURVEYED BY: TOS DRAWN BY: MW MAP FILE REFERENCE: D-1213 PINK	

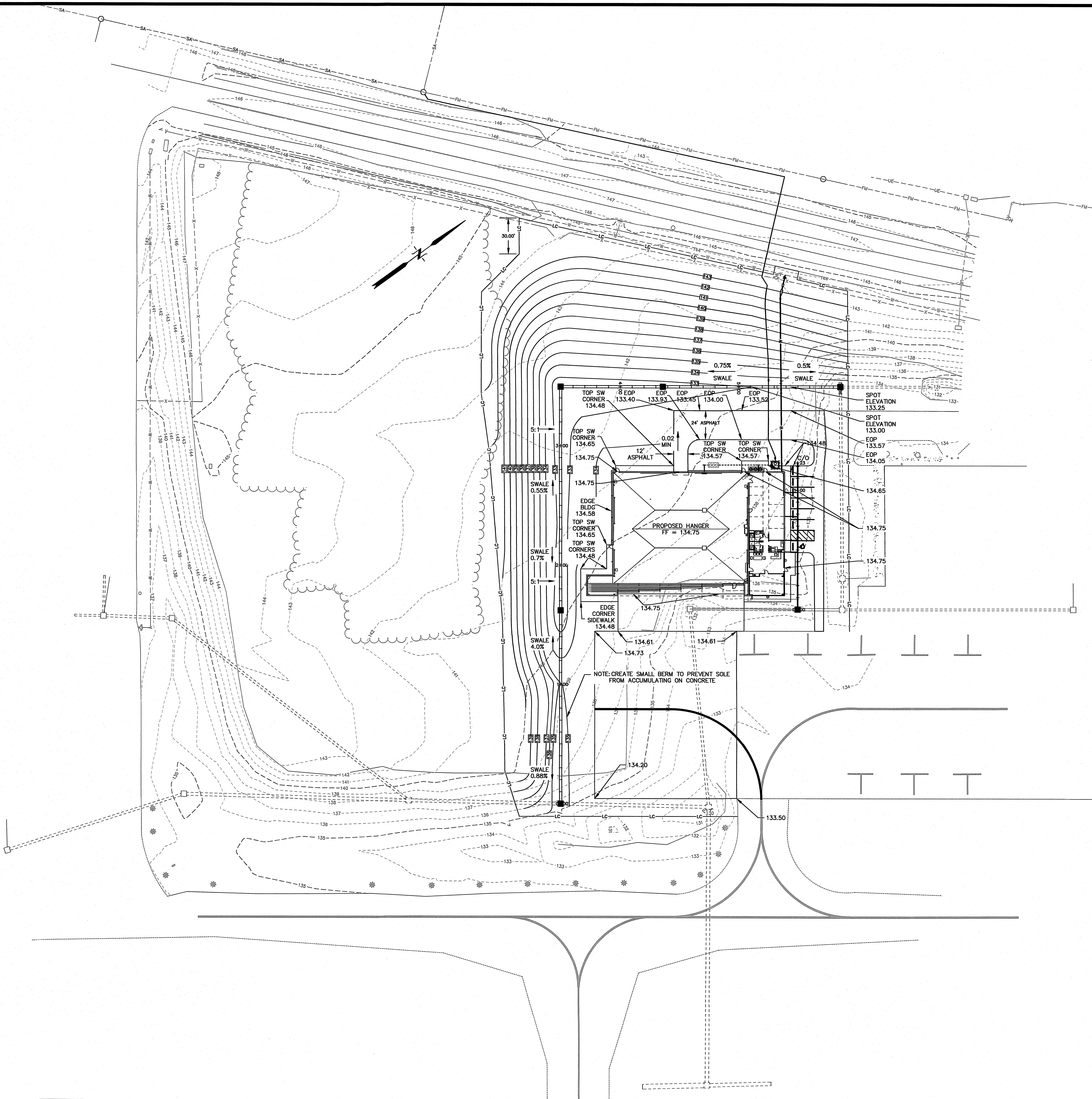
Drawing: W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\006-Proposed Site Plan.dwg
Layout: 1
Plotted: Friday, May 16, 2025, 4:13:33pm

NOTES:
-SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF BUILDING, SIDEWALKS, DOWNSPOUTS, AND DOORS.
-ALL DOWNSPOUTS ON NORTHEASTERN SIDE OF HANGAR AND THE DOWNSPOUT AT THE SOUTHEASTERN SIDE OF OFFICE AREA SHALL DRAIN TO AN UNDERDRAIN SYSTEM
-BUILDING WASTEWATER IS DISCHARGED THROUGH A GRINDER PUMP WITH WET WELL AND SMALL DIAMETER FORCE MAIN.

LEGEND	
	PROPOSED CONTOUR ELEVATION
	EXISTING CONTOUR ELEVATION
	EXISTING CHAIN LINK FENCE
	PROPOSED WATER SERVICE LINE
	LIMITS OF CONSTRUCTION
	PROPOSED UNDERGROUND ELECTRICAL
	EXISTING SANITARY SEWER
	PROPOSED FORCE MAIN
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED DROP INLET
	EXISTING DROP INLET



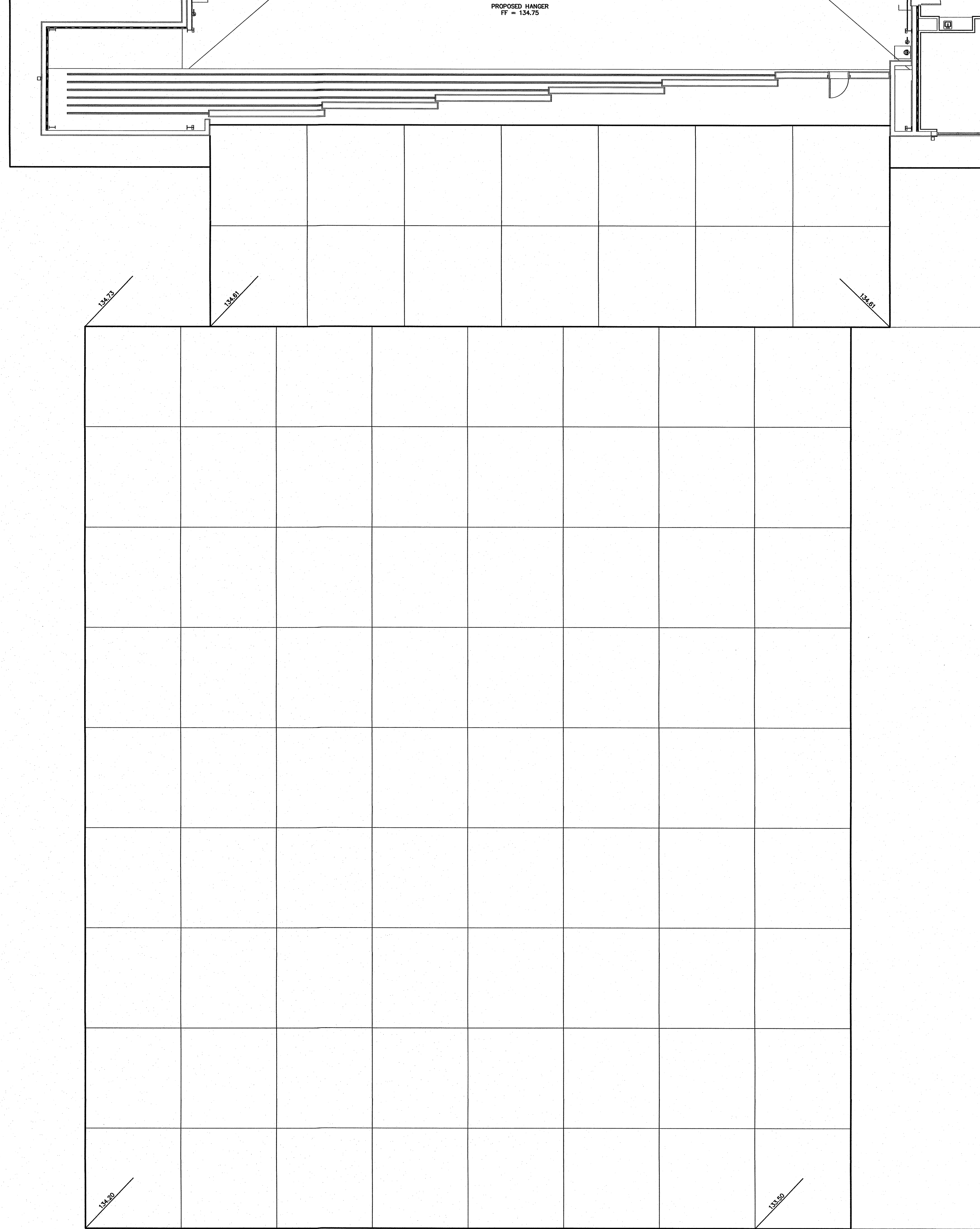
PROPOSED SITE PLAN		CONTRACT NO. 3 - SITE IMPROVEMENTS		2025 AIRPORT HANGER PROJECT		DUPLIN COUNTY		NORTH CAROLINA	
SHEET 6 OF 21		McDAVID ASSOCIATES, INC.		Corporate License No. C-131		BRANCH OFFICE		P. O. Box 1776	
		Corporate License No. C-131		2025-0305-3402		100 East Walnut Street		Farmville, NC 27831	
		PROJECT NO. 1-25-0305-3402		SURVEYED BY: TDS		P. O. Box 1776		Telephone: (252) 755-2139	
		SCALE: 1" = 40'		DRAWN BY: MW		Facsimile: (252) 755-7220		Facsimile: (919) 735-7351	
		DATE: MARCH 26, 2025		MAP FILE REFERENCE: D-1213 PINK					
		McDAVID ASSOCIATES, INC.		Seal 1972		Seal 28431			
		FARMVILLE, N.C.							

[illegible]

Drawing: W:\DBxx_gen\DB4x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\008-Pavement Details.dwg
Layout: Plotted: Friday, May 16, 2025, 4:14:00pm

20040803		SD010502													
SIGN SHALL BE REFLECTIVE ALUMINUM															
BACKGROUNDS - WHITE LEGENDS AND BORDERS - GREEN WHITE FIGURES ON BLUE FIELDS															
CONDITION 1: PEDESTRIAN PATH DOES NOT PASS BY, UNDER, OR AROUND SIGN. CONDITION 2: PEDESTRIAN PATH PASSES BY, UNDER, OR AROUND SIGN.															
STANDARD HANDICAPPED PARKING SPACE SIGN		VAN ACCESSIBLE HANDICAPPED PARKING SPACE SIGN													
HANDICAPPED PARKING SPACE SIGNS		A		TYPICAL CONCRETE PARKING BUMPER		B		SLAB ON GRADE EXPANSION JOINT		C		SLAB ON GRADE CONTRACTION JOINT		D	
														SD010410	

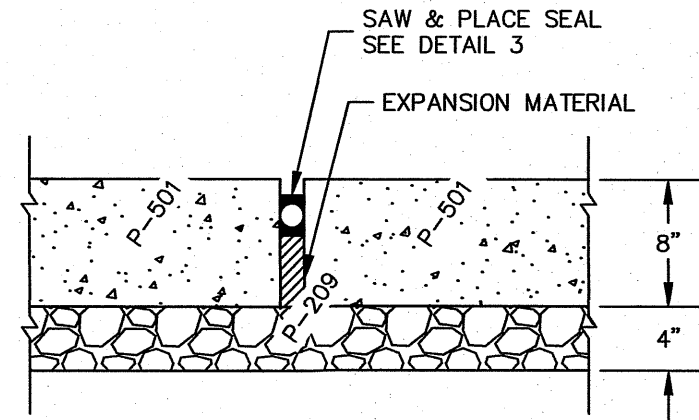
Drawing:
Layout:
Plotted:



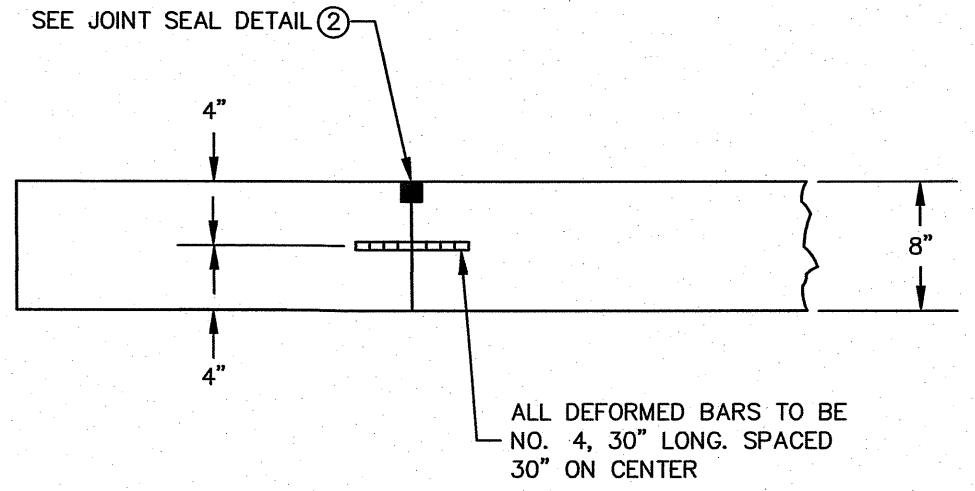
1. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S LITERATURE AND RECOMMENDATIONS FOR INSTALLATION OF THE SEALANT TO THE ENGINEER FOR APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT HIS/HER PLAN FOR SEALING ALL JOINTS WITH THE DIMENSIONS OF MATERIAL AND WIDTHS APPROPRIATE FOR THE TYPE SEALANT SELECTED, TO THE ENGINEER FOR APPROVAL.
3. ALL JOINTS SHALL BE MECHANICALLY CLEANED OF ALL CURING COMPOUND AND BLOWN OUT WITH COMPRESSED AIR BEFORE INSTALLATION OF THE SEALANT.
4. THE CONTRACTOR SHALL DEMONSTRATE HIS/HER ABILITY TO COMPLY WITH THE DRAWINGS AND SPECIFICATION REQUIREMENTS BY PLACING A TEST SECTION WHICH INCLUDES BOTH LONGITUDINAL AND TRANSVERSE JOINTS.
5. JOINTS SHALL BE SEALED WITH FUEL RESISTANT SILICONE JOINT

1. PAVING LANES SHALL BE PLACED IN THE DIRECTION OF DRAINAGE.
2. METAL FORMS REQUIRED (SEE SPECIFICATIONS)

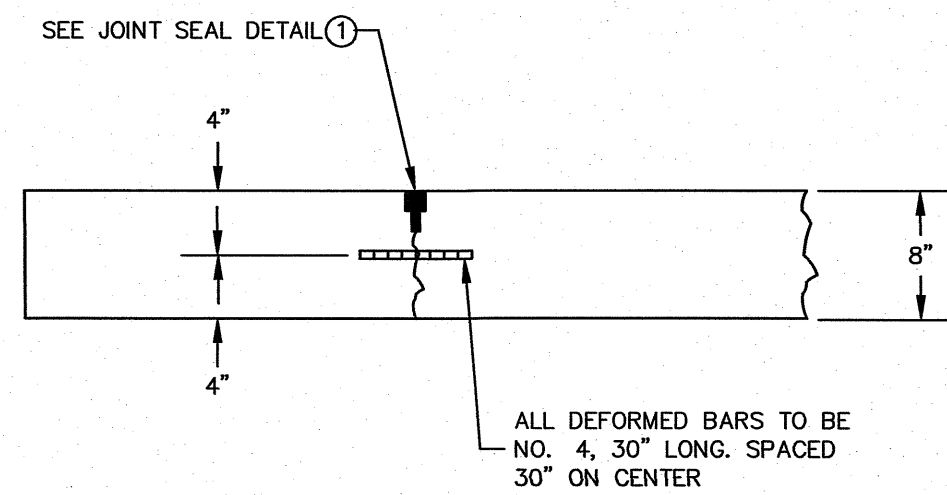
A	EXPANSION JOINT (SEE DETAIL)
B	HINGED CONSTRUCTION JOINT (SEE DETAIL)
C	HINGED CONTRACTION JOINT (SEE DETAIL)
D	SAWED TRANSVERSE JOINT (SEE DETAIL))
JOINT ELEVATION	
A	PAVEMENT LANE IDENTIFIER
1	PAVEMENT LANE IDENTIFIER



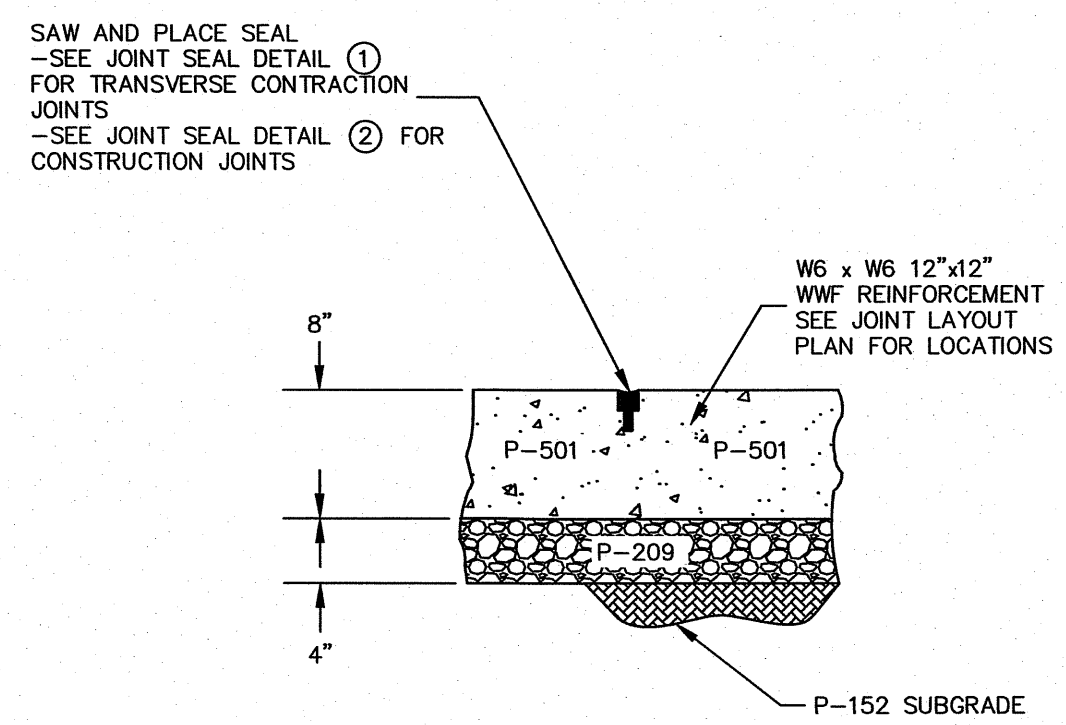
EXPANSION JOINT DETAIL
N.T.S.



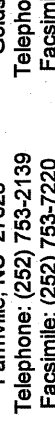
HINGED CONSTRUCTION JOINT DETAIL
N.T.S.



HINGED CONTRACTION JOINT DETAIL
N.T.S.



SAWED JOINT DETAIL
N.T.S.

SHEET	9	OF	21	PAVEMENT DETAILS CONTRACT NO. 3 - SITE IMPROVEMENTS 2025 AIRPORT HANGER PROJECT DUPLIN COUNTY DUPLIN COUNTY NORTH CAROLINA	 McDAVID ASSOCIATES, INC. Corporate License No. C-131 CORPORATE OFFICE Engineers • Planners • Land Surveyors 3740 Main Street 108 P. O. Box 178 P. O. Box 49 Farmville, NC 27828 Goldsboro, NC 27533 Telephone: (919) 752-1359 Telefax: (252) 785-2226 Facsimile: (252) 785-2221	DATE: _____ MAP FILE REFERENCE: D-1213 PINK
						DATE: _____ MAP FILE REFERENCE: D-1213 PINK

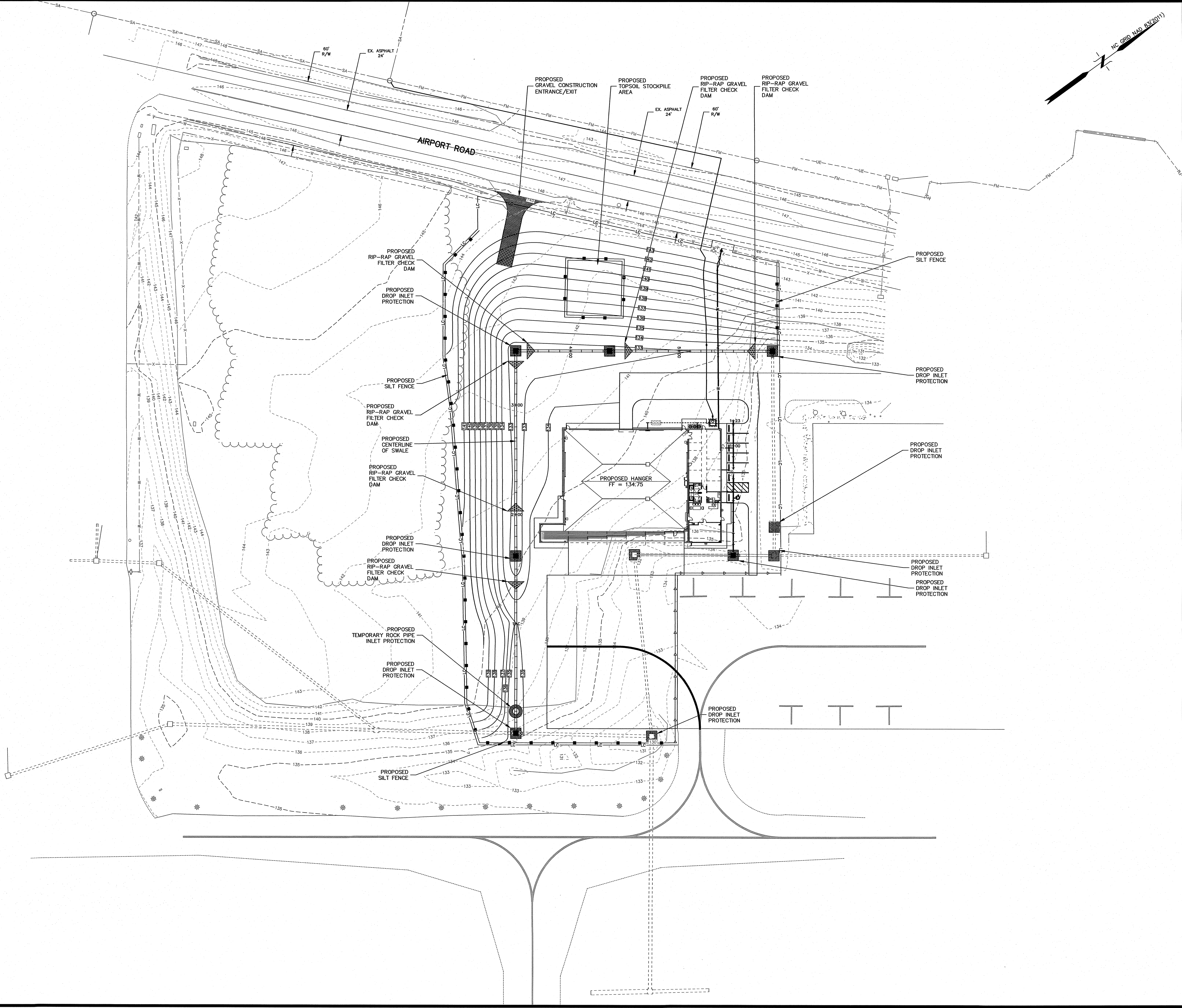
Drawing: W:\DBxx_gen\DB4x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\010-Pavement Details.dwg
Layout: Plotted: Friday, May 16, 2025, 4:14:14pm

CONTRACTION JOINT SEALANT DETAIL		CONSTRUCTION JOINT SEALANT DETAIL		EXPANSION JOINT SEALANT DETAIL		PCC PAVEMENT SECTION	
A		B		C		D	
E		F		G		H	

McDAVID ASSOCIATES, INC.		McDAVID ASSOCIATES, INC.	
Corporate License No. C-131		Professional Engineer Seal	
CORPORATE OFFICE		Professional Engineer Seal	
Engineering		Professional Engineer Seal	
3714 North Main Street		Professional Engineer Seal	
P. O. Box 1778		Professional Engineer Seal	
Farmville, NC 27828		Professional Engineer Seal	
Telephone: (252) 735-7330		Professional Engineer Seal	
Facsimile: (252) 735-7351		Professional Engineer Seal	
BRANCH OFFICE		Professional Engineer Seal	
100 East Walnut Street		Professional Engineer Seal	
P. O. Box 1778		Professional Engineer Seal	
Farmville, NC 27828		Professional Engineer Seal	
Telephone: (252) 735-7330		Professional Engineer Seal	
Facsimile: (252) 735-7351		Professional Engineer Seal	
PAVEMENT DETAILS		DATE: MARCH 28, 2025	
CONTRACT NO. 3 - SITE IMPROVEMENTS		MAP FILE REFERENCE: D-1213 PINK	
2025 AIRPORT HANGER PROJECT		DRAWN BY: MW	
DUPLIN COUNTY		SURVEYED BY: TDS	
DUPLIN COUNTY		PROJECT NO.: 25-0305-3402	
NORTH CAROLINA		SCALE: NTS	
SHEET 10 OF 21		REV. DATE DESCRIPTION	

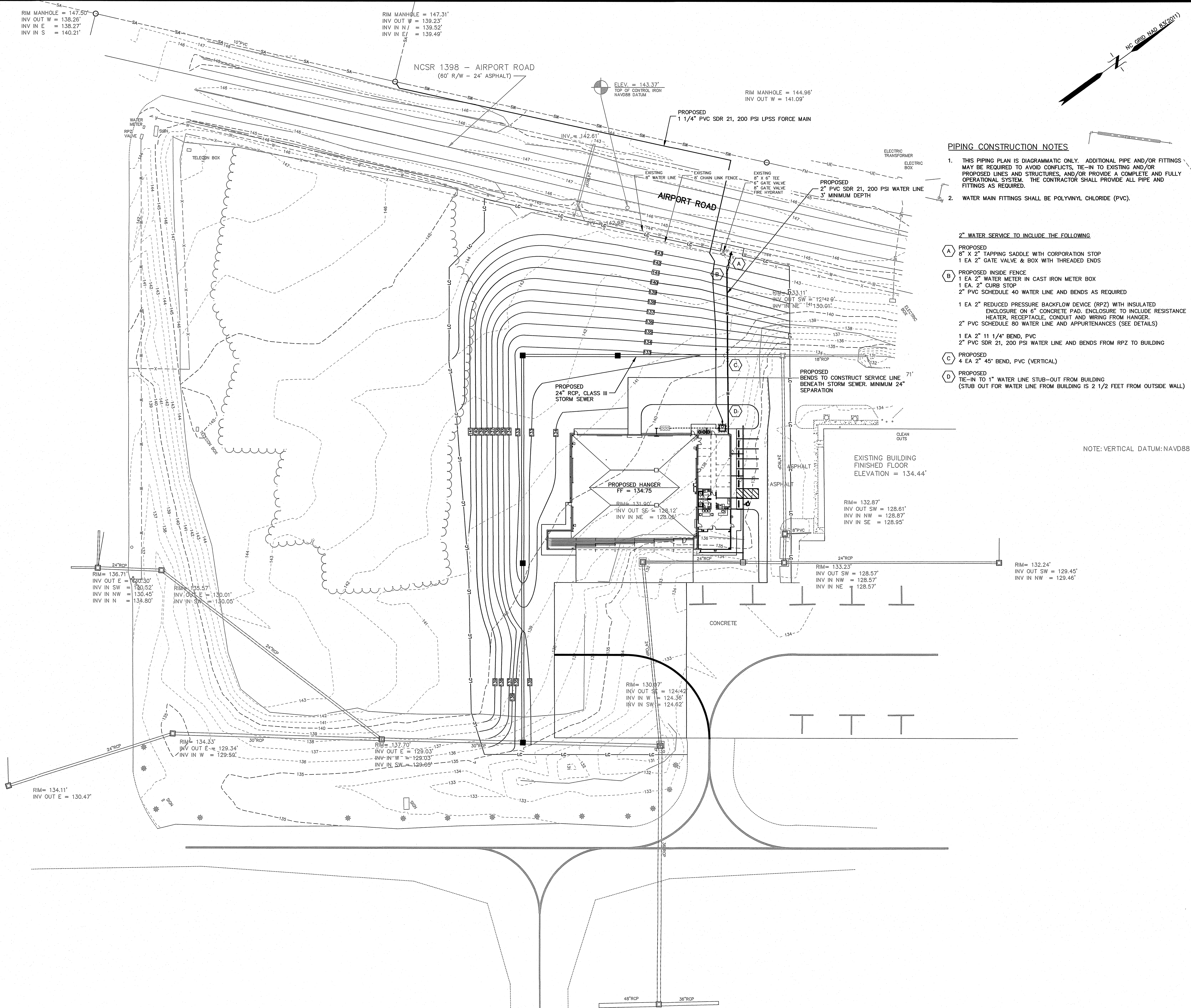
Drawing: W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\011-Erosion Control Plan.dwg
Layout: Plotted: Friday, May 16, 2025, 4:14:29pm

LEGEND	
	PROPOSED CONTOUR ELEVATION
	EXISTING CONTOUR ELEVATION
	PROPOSED CHAIN LINK FENCE
	PROPOSED SILT FENCE
	PROPOSED WATER SERVICE LINE
	LIMITS OF CONSTRUCTION
	PROPOSED UNDERGROUND ELECTRICAL
	EXISTING SANITARY SEWER
	PROPOSED FORCE MAIN
	EXISTING SANITARY SEWER MANHOLE
	DROP INLET PROTECTION
	SILT FENCE W/ STONE OUTLET
	RIP-RAP GRAVEL FILTER CHECK DAM
	ROCK PIPE INLET PROTECTION
	PROPOSED DITCH CENTERLINE



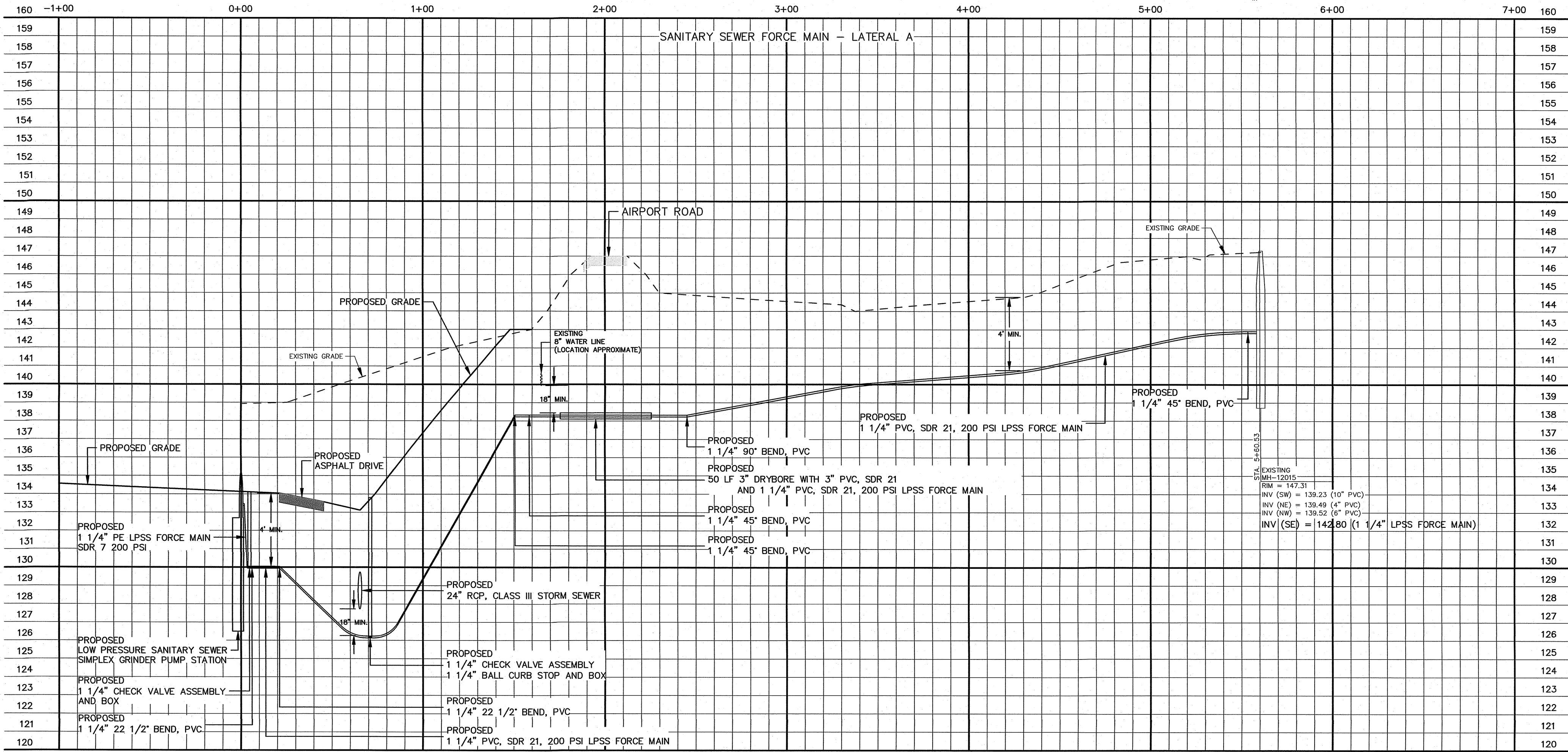
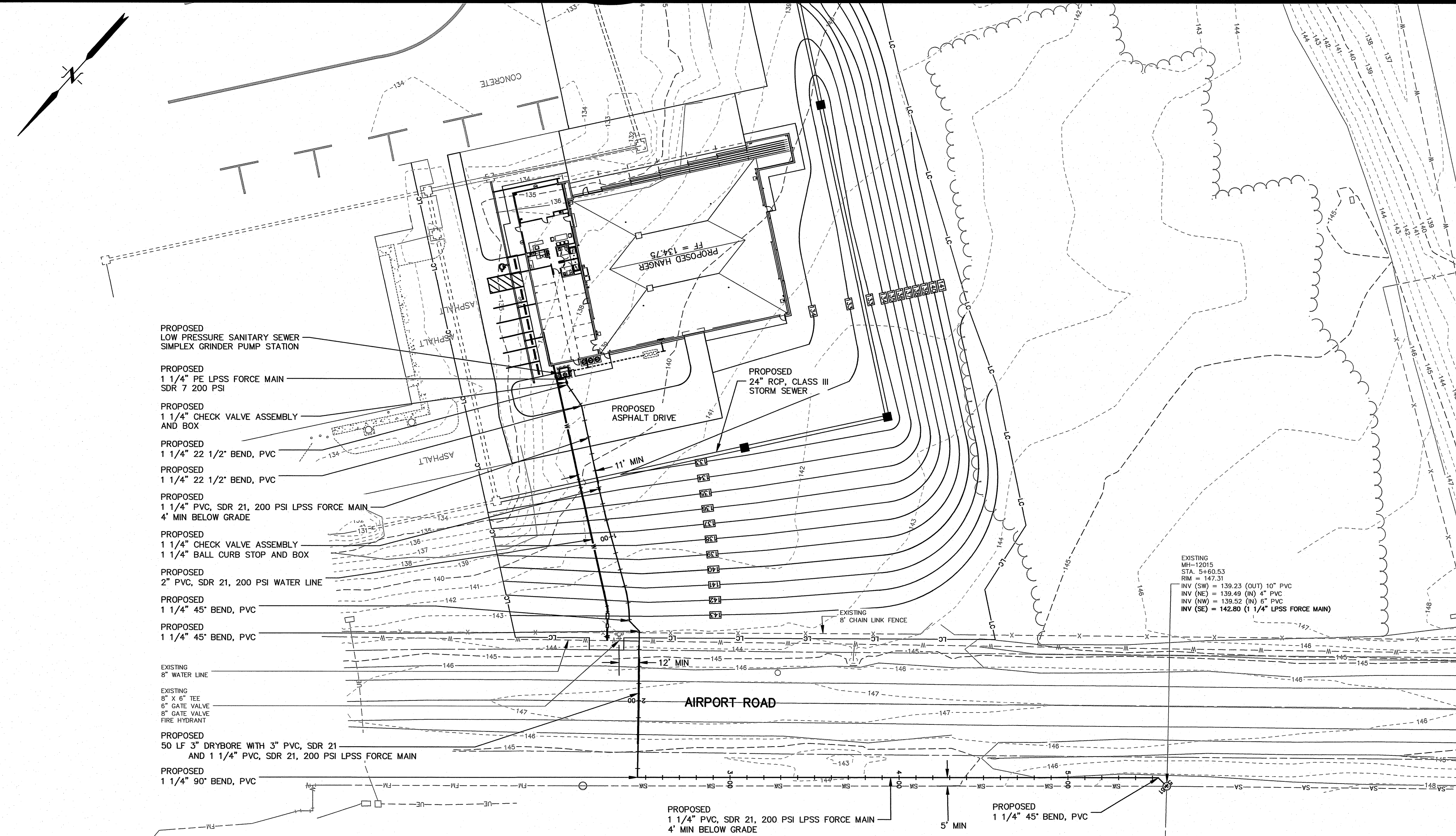
EROSION CONTROL PLAN		CONTRACT NO. 3 - SITE IMPROVEMENTS		2025 AIRPORT HANGER PROJECT		DUPLIN COUNTY		NORTH CAROLINA	
SHEET 11 OF 21		McDAVID ASSOCIATES, INC.		Corporate License No. C-131		BRANCH OFFICE		SURVEYED BY: BY OTHERS	
		CORPORATE OFFICE		Engineers 3714 North Main Street Farmville, NC 27830 Telephone: (252) 755-2139 Facsimile: (252) 755-7220		2025 AIRPORT HANGER PROJECT P. O. Box 1776 Goldsboro, NC 27534 Telephone: (919) 735-7351 Facsimile: (919) 735-7351		DRAWN BY: MW	
		INC.		Seal of Engineer Joseph W. McDavid, No. 28431, State of North Carolina		Seal of Professional Surveyor Joseph W. McDavid, No. 1972, State of North Carolina		PROJECT NO.: 1-25-0305-3402	
								SCALE: 1" = 40'	
								DATE: MARCH 28, 2025	
								MAP FILE REFERENCE: D-1213 PINK	

Drawing: W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\012-Water Construction.dwg
Layout: 1
Plotted: Friday, May 16, 2025, 4:14:44pm



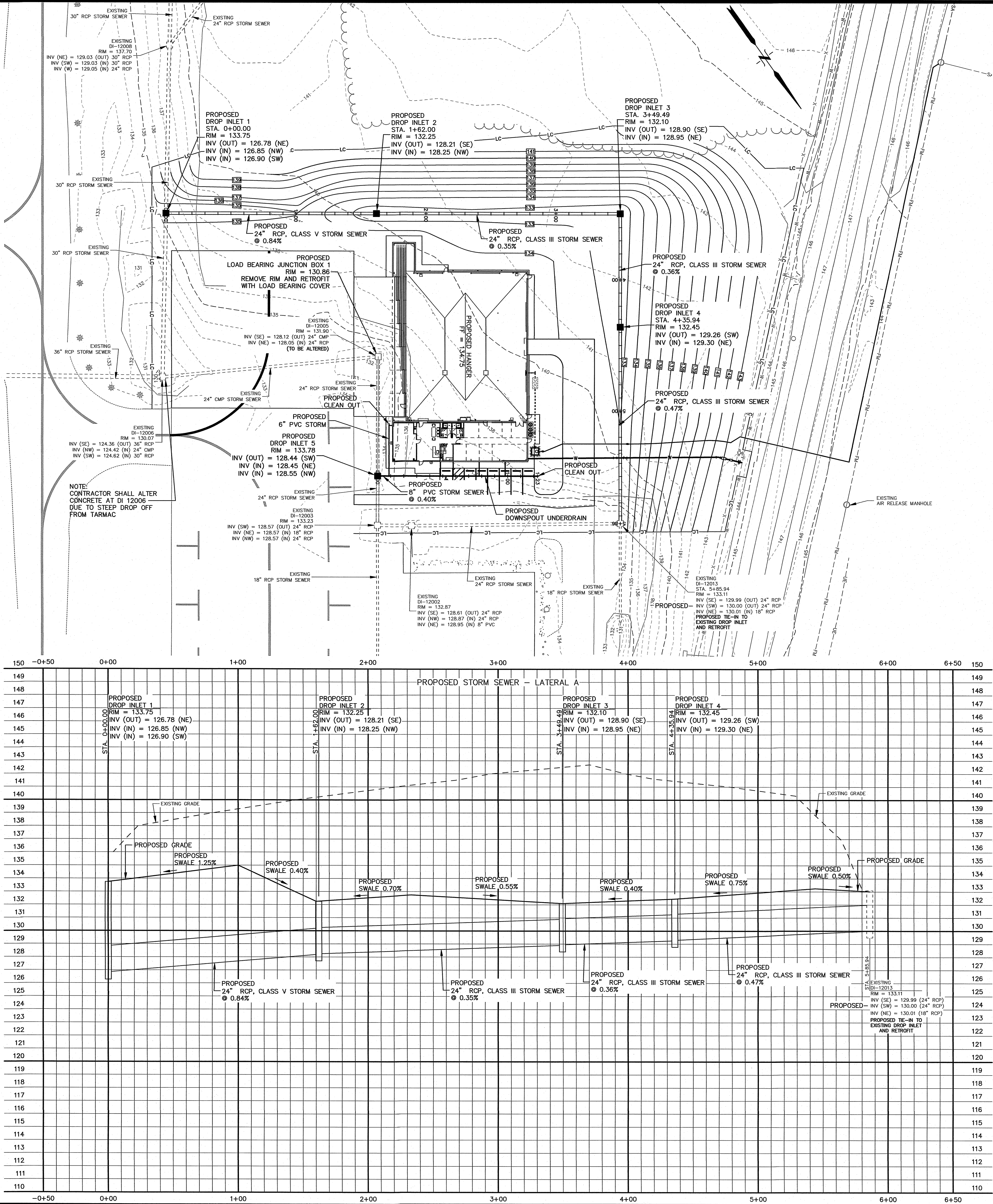
SHEET 12 OF 21	
WATER CONSTRUCTION CONTRACT NO. 3 - SITE IMPROVEMENTS 2025 AIRPORT HANGER PROJECT DUPLIN COUNTY	
NORTH CAROLINA	
McDAVID ASSOCIATES, INC. Corporate License No. C-131 CORPORATE OFFICE Engineers 2714 North Main Street P. O. Box 1778 Farmville, NC 27828 Telephone: (252) 735-7220 Facsimile: (252) 735-7220	
McDAVID ASSOCIATES, INC. Professional Engineer Seal No. 28431 Joseph W. McDavid FARMVILLE, N.C. 1972	
PROJECT NO.: 1-25-0305-3402 SCALE: 1" = 40' DATE: MARCH 28, 2025	
SURVEYED BY: BY OTHERS DRAWN BY: MW MAP FILE REFERENCE: D-1213 PINK	

Drawing: W:\DBxx_gen\084x_eng\0847_LD (2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design)\DWG\0013-Sanitary Sewer Construction.dwg
Layout: Plotted: Friday, May 16, 2025, 4:14:59pm



SHEET 13 OF 21	
SANITARY SEWER CONSTRUCTION	
CONTRACT NO. 3 - SITE IMPROVEMENTS	
2025 AIRPORT HANGER PROJECT	
DUPLIN COUNTY	
NORTH CAROLINA	
McDAVID ASSOCIATES, INC.	
Corporate License No. C-131	
CORPORATE OFFICE	
Engineers 2714 North Main Street	
P. O. Box 1778	
Farmville, NC 27830	
Telephone: (919) 735-7220	
Facsimile: (919) 735-7351	
BRANCH OFFICE	
Engineers 100 East Walnut Street	
P. O. Box 1778	
Goldensboro, NC 27339	
Telephone: (919) 735-7220	
Facsimile: (919) 735-7351	
McDAVID ASSOCIATES, INC.	
SEAL 1972	
SEAL 28431	
JOSEPH W. McDAVID	
Professional Engineer	
NORTH CAROLINA	
PROJECT NO.: 1-25-0305-3402	
SURVEYED BY: TDS	
DRAWN BY: MW	
MAP FILE REFERENCE: D-1213 PINK	
DATE: MARCH 28, 2025	
SCALE: H 1" = 40' V 1" = 4'	

Drawing: W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\014-Storm Drainage Construction.dwg
Layout: Plotted: Friday, May 16, 2025, 4:15:16pm



STORM DRAINAGE CONSTRUCTION
CONTRACT NO. 3 - SITE IMPROVEMENTS
2025 AIRPORT HANGER PROJECT
DUPLIN COUNTY
DUPLIN COUNTY

McDAVID ASSOCIATES, INC.
Corporate License No. C-131
CORPORATE OFFICE
Engineers
3714 North Main Street
P. O. Box 1776
Goldsboro, NC 27534
Telephone: (252) 735-7239
Facsimile: (252) 735-7220

BRANCH OFFICE
Engineers
109 East Walnut Street
P. O. Box 1776
Goldsboro, NC 27534
Telephone: (919) 735-7351
Facsimile: (919) 735-7351

Seal of the State of North Carolina
Professional Engineer
No. 28431
Name: DEBORAH W. McDAVID
Exp. Date: 12/31/2025

Seal of the State of North Carolina
Professional Engineer
No. 1972
Name: HARVILLE W. C. McDAVID
Exp. Date: 12/31/2025

PROJECT NO.: 25-0305-3402
SCALE: H 1" = 40' V 1" = 4'
DATE: MARCH 28, 2025
MAP FILE REFERENCE: D-1213 PINK

SURVEYED BY: TDS
DRAWN BY: MW
DATE: 12/13/2025

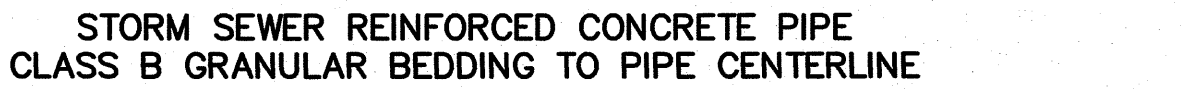
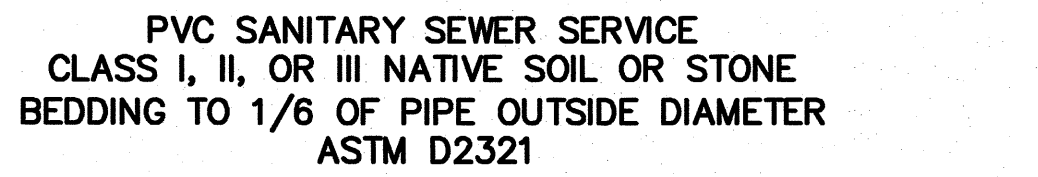
McDAVID ASSOCIATES, INC.
Seal of the State of North Carolina
Professional Engineer
No. 1972
Name: HARVILLE W. C. McDAVID
Exp. Date: 12/31/2025

McDAVID ASSOCIATES, INC.
Seal of the State of North Carolina
Professional Engineer
No. 28431
Name: DEBORAH W. McDAVID
Exp. Date: 12/31/2025

SHEET 14 OF 21

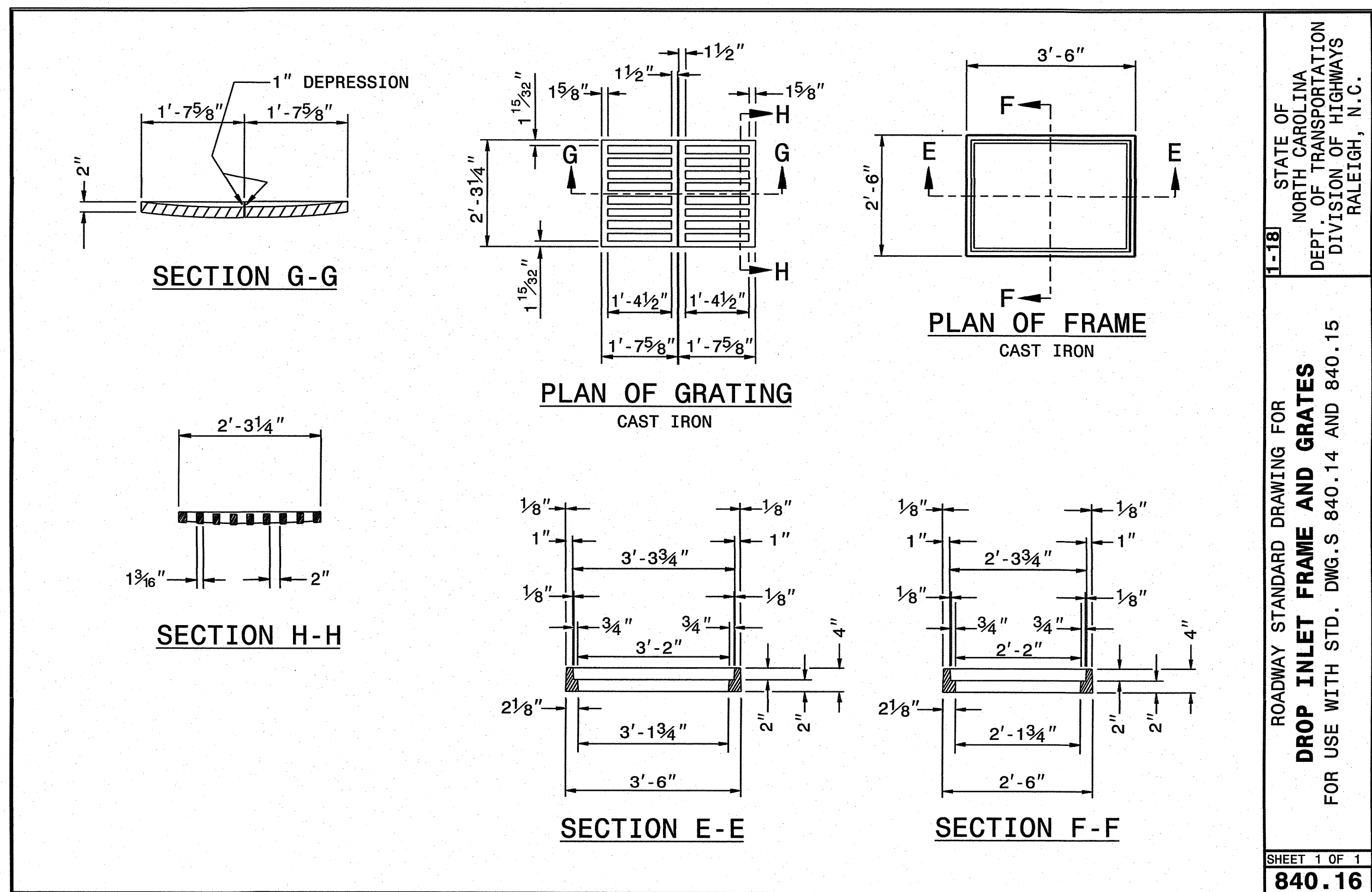
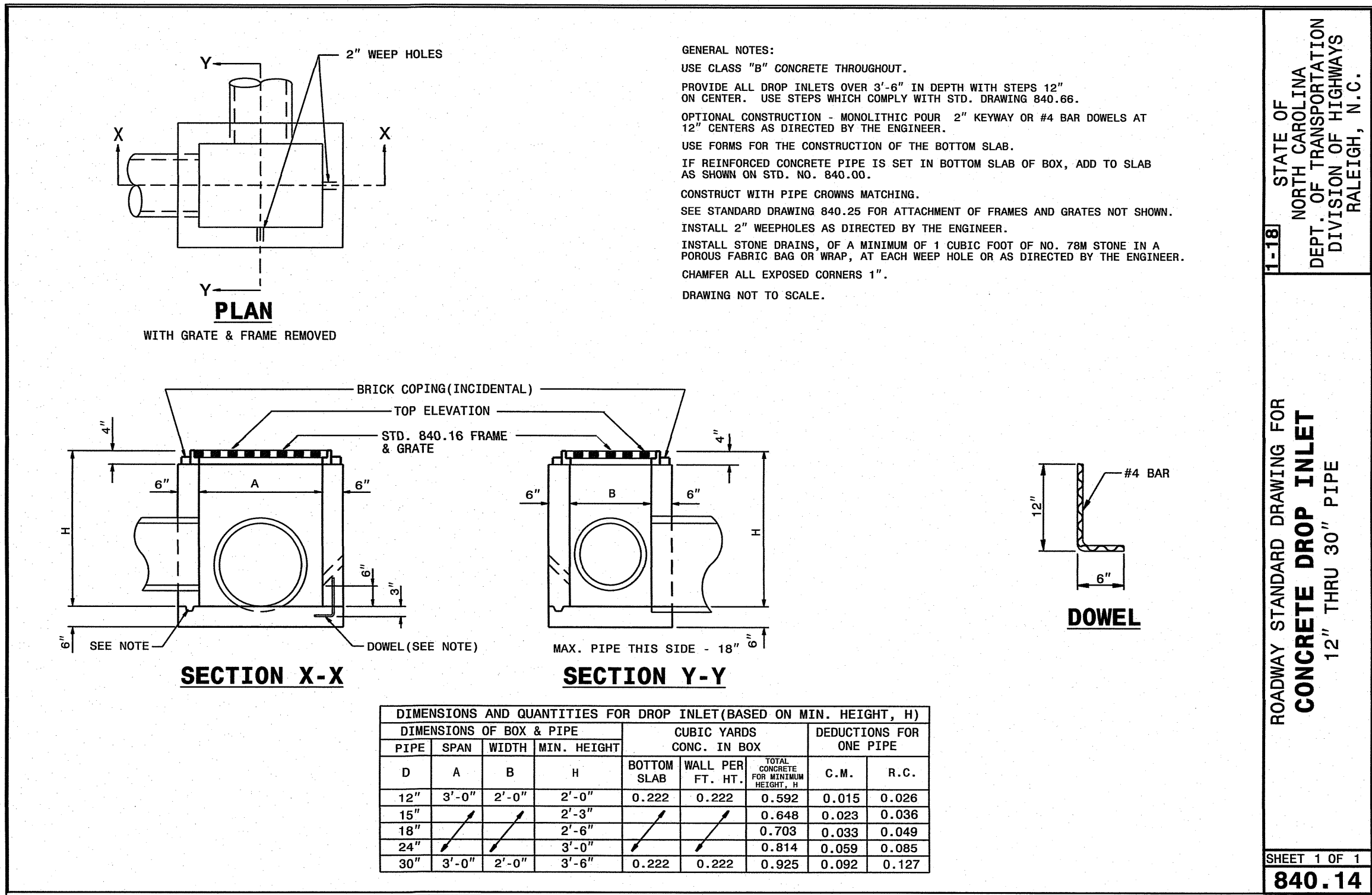
DATE: 12/13/2025

Drawing:
Layout:
Plotted:



STORM DRAINAGE DETAILS
CONTRACT NO. 3 - SITE IMPROVEMENTS
2025 AIRPORT HANGER PROJECT
DUPLIN COUNTY

W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\016-Storm Drainage Details.dwg
Drawing: 084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\016-Storm Drainage Details.dwg
Layout: 016-Storm Drainage Details.dwg
Plotted: Friday, May 16, 2025, 4:15:36pm

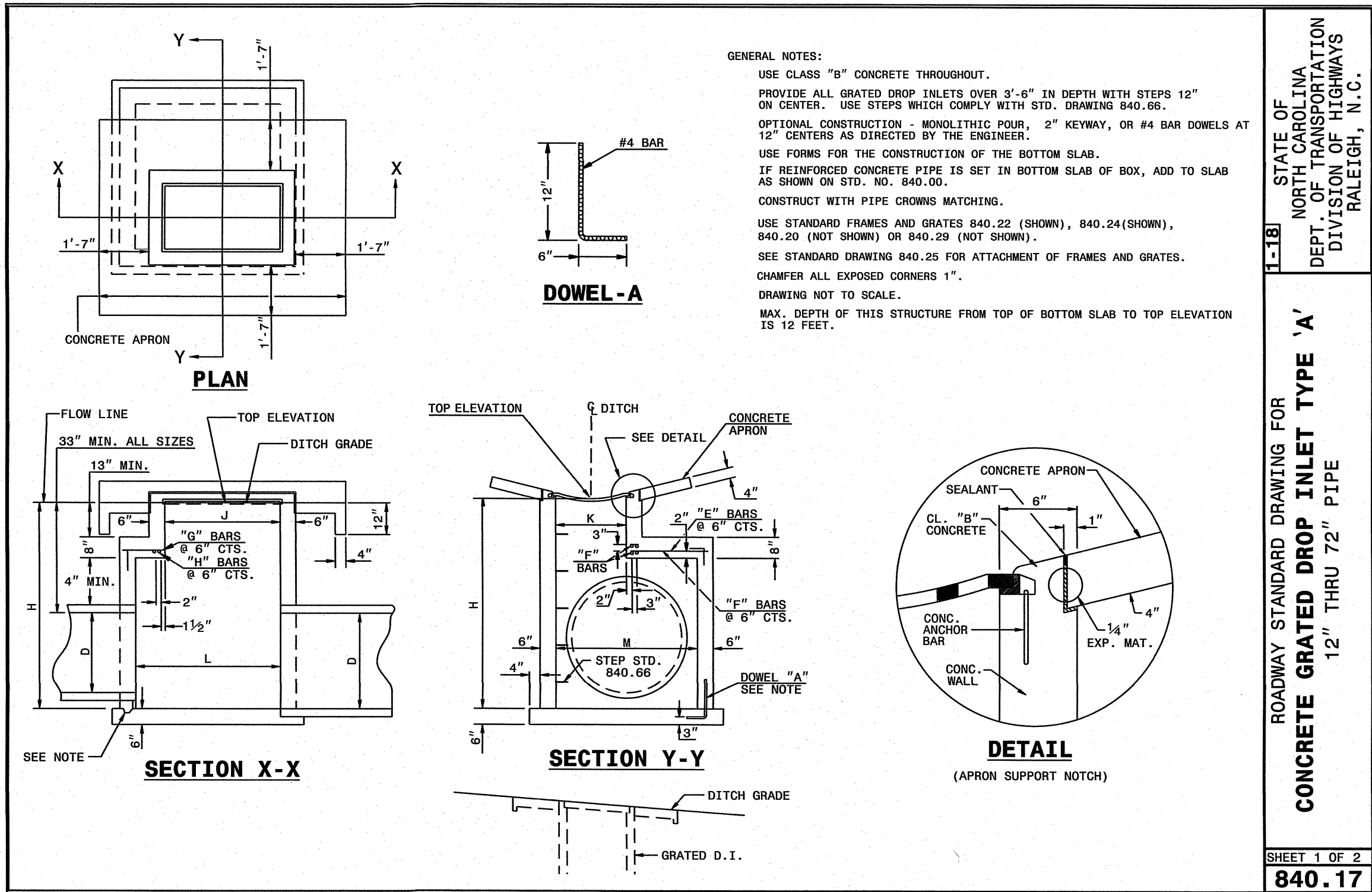


CONCRETE DROP INLET

A

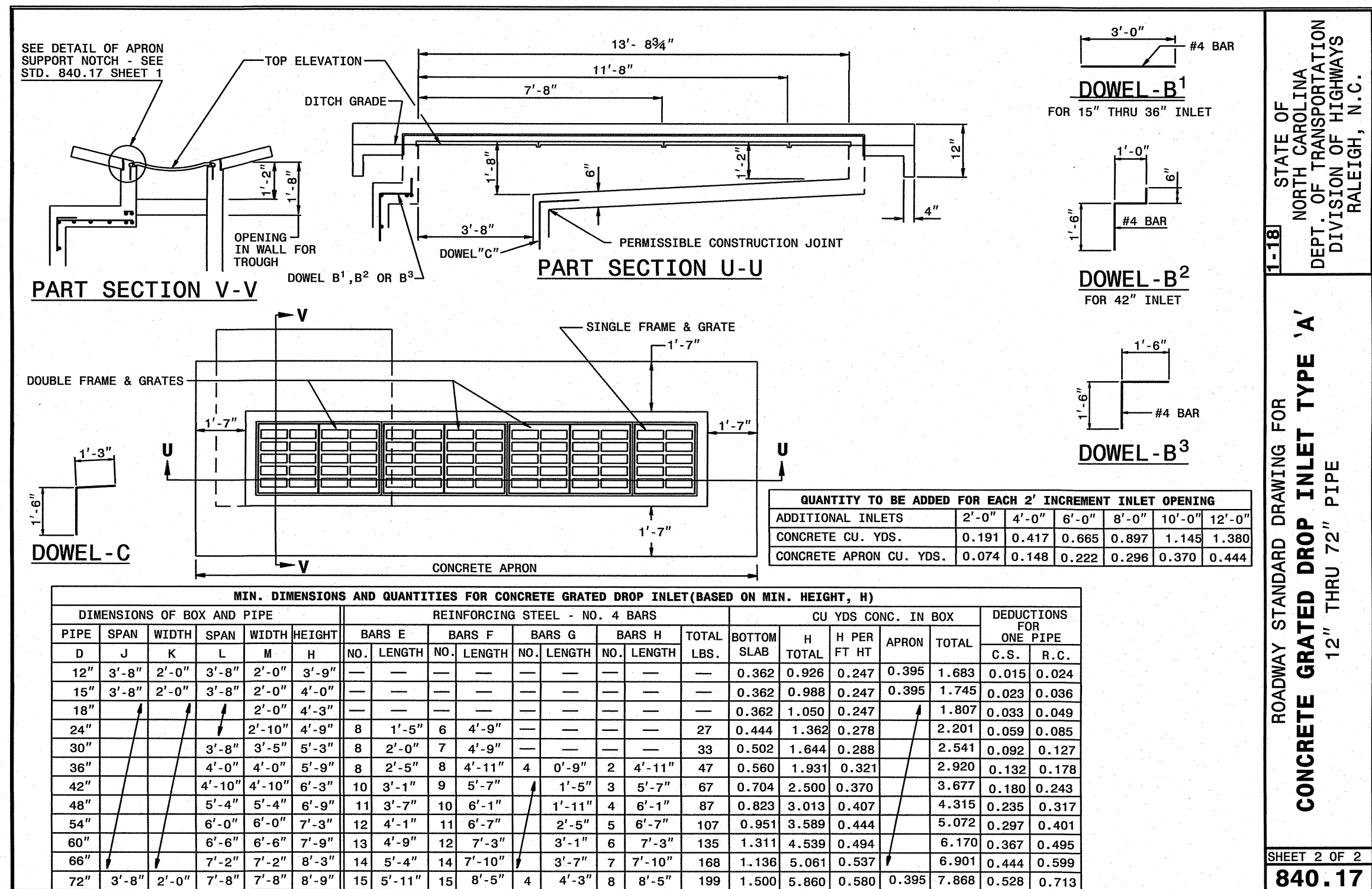
DROP INLET FRAME AND GRATES

B



CONCRETE GRATED DROP INLET TYPE "A"

C



CONCRETE GRATED DROP INLET TYPE "A"

D

STORM DRAINAGE DETAILS
CONTRACT NO. 3 - SITE IMPROVEMENTS
2025 AIRPORT HANGER PROJECT
DUPLIN COUNTY

McDAVID ASSOCIATES, INC.
Corporate License No. C-137
CORPORATE OFFICE
Engineers, Planners, Surveyors
10500 Peachtree Industrial Blvd.
P.O. Box 1776
Farmville, NC 27823
Telephone: (919) 735-7220
Facsimile: (919) 735-7351

BRANCH OFFICE
Engineers, Planners, Surveyors
10500 Peachtree Industrial Blvd.
P.O. Box 1776
Farmville, NC 27823
Telephone: (919) 735-7220
Facsimile: (919) 735-7351

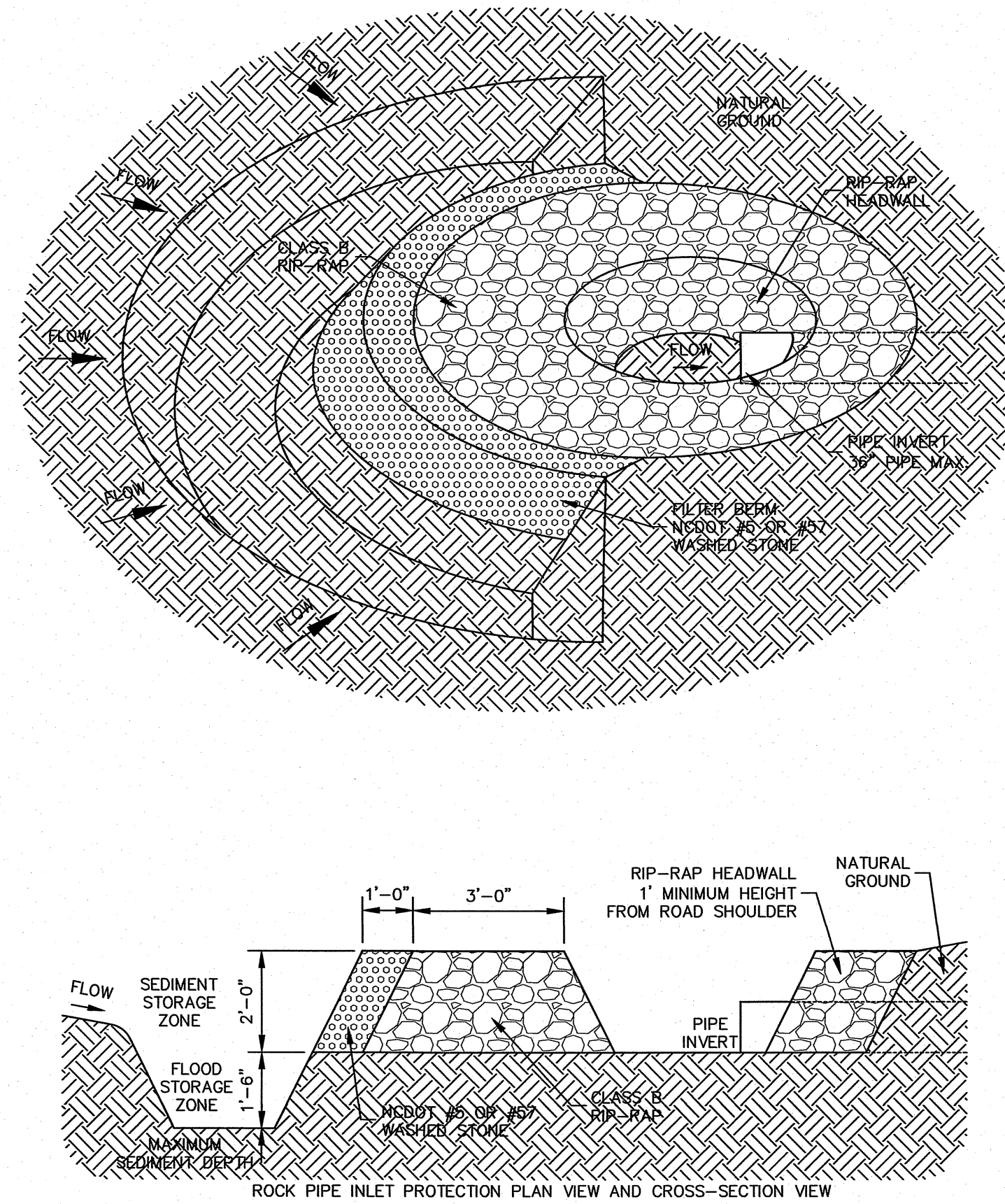
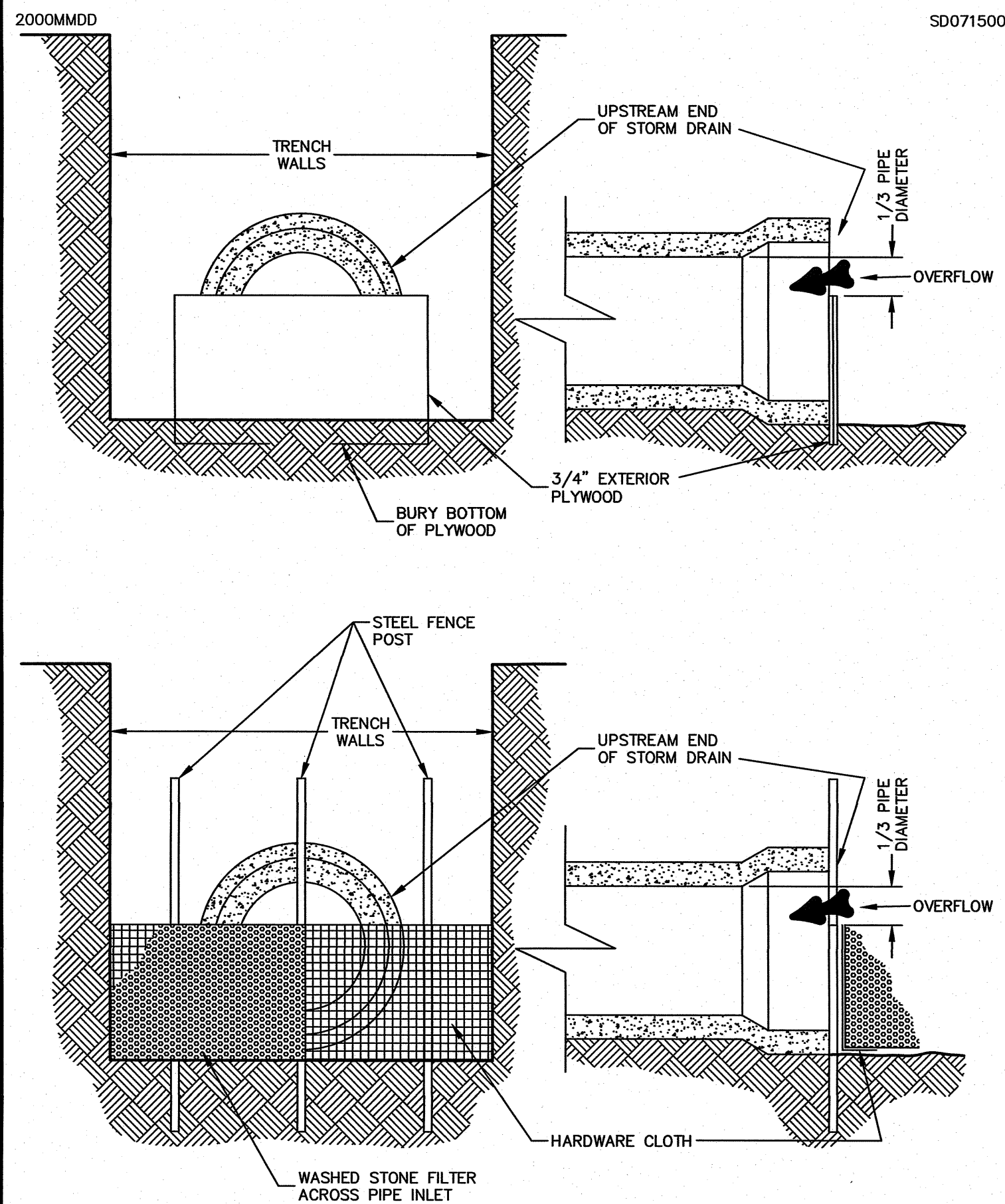
McDAVID ASSOCIATES, INC.
Seal
1972

McDAVID ASSOCIATES, INC.
Seal
1972

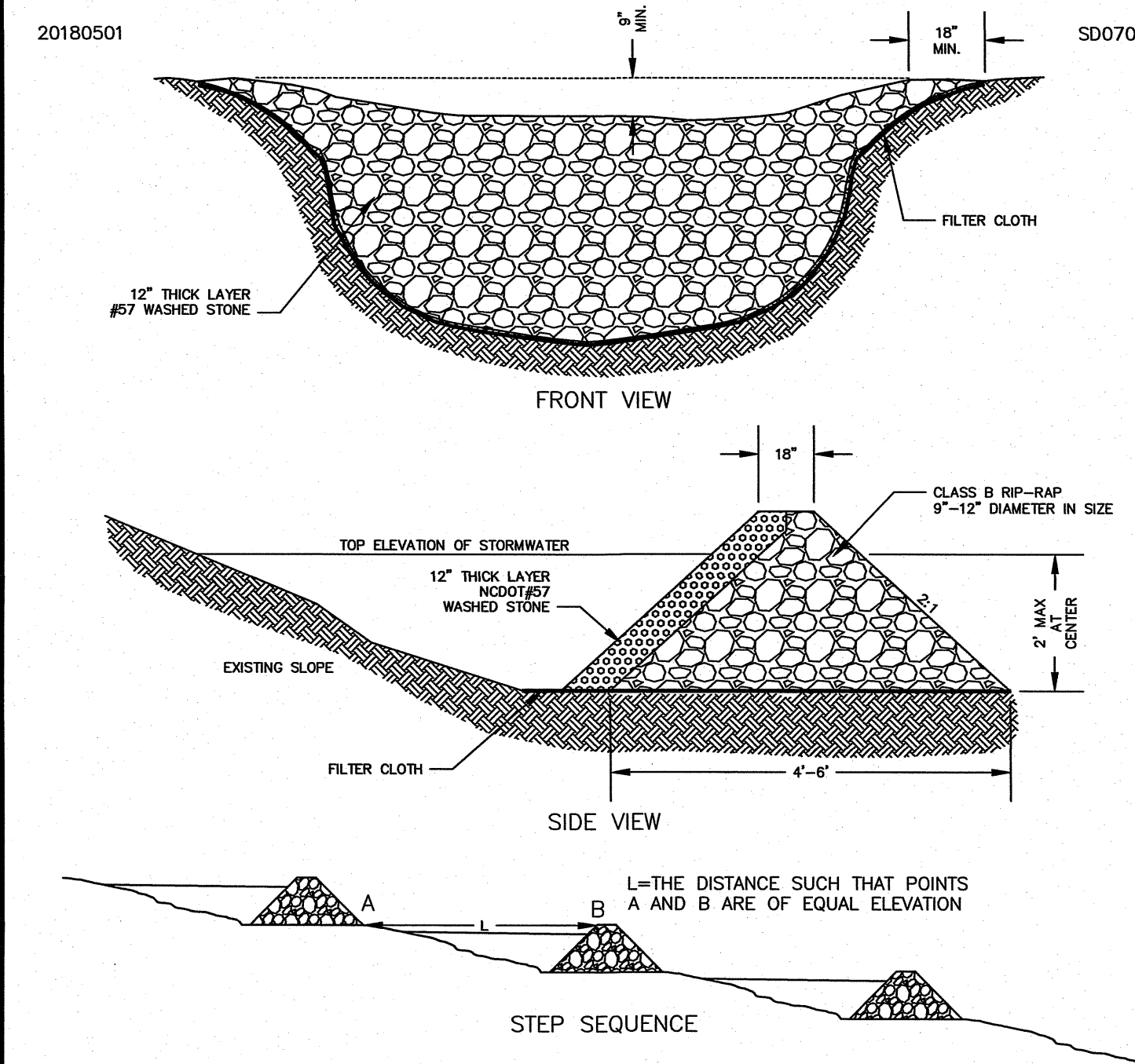
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

PROJECT NO.: 25-0305-3402
SCALE: NTS
DATE: MARCH 28, 2025

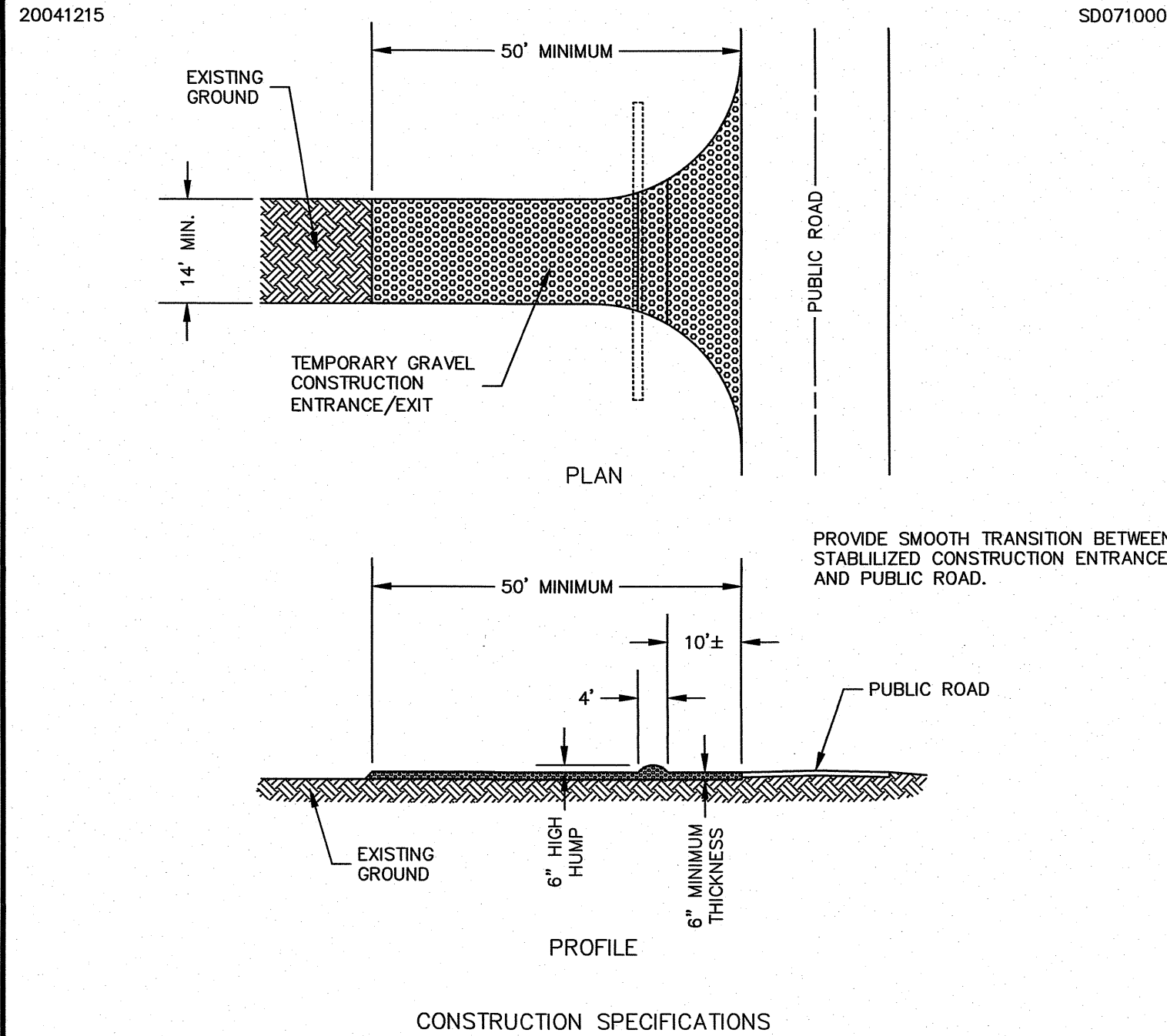
SURVEYED BY: TDS
DRAWN BY: MW
MAP FILE REFERENCE: D-1213 PINK



ROCK PIPE INLET PROTECTION



- | CONSTRUCTION NOTES: | MAINTENANCE NOTES: |
|--|---|
| 1. PLACE STRUCTURAL STONE (CLASS B) ON A FILTER FABRIC FOUNDATION. THE GREATEST WIDTH OF THE DAM SHOULD BE A MINIMUM OF 2 FEET. | 1. INSPECT AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. |
| 2. CONSTRUCT SPILLWAY A MINIMUM OF 12 INCHES BELOW LOWEST BANK. | 2. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS ALONG THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. |
| 3. PLACE SEDIMENT CONTROL STONE (#57) ON THE UPSTREAM SIDE OF THE DAM A MINIMUM 1 FOOT THICK. | 3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL. VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION. |
| 4. PROVIDE AN APRON 3 TIMES THE HEIGHT OF THE DAM. THE APRON WIDTH SHALL BE AT LEAST 4 FEET LONG. UNDERCUT THE APRON SO THAT THE TOP OF THE APRON IS FLUSH WITH THE SURROUNDING GRADE. | |
| 5. EXTEND THE STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM. | |
| 6. EXCAVATE SEDIMENT STORAGE AREA. | |



- STONE SIZE - USE WASHED STONE 2" x 3" SIZE.
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, MINIMUM 14 FT
- WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN UP OF ANY SPILLS OR TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

[illegible]

McDAVID ASSOCIATES, INC.

Corporate License No. C-131

CORPORATE OFFICE
Engineers • Planners • Land Surveyors
 3714 North Main Street
 P. O. Drawer 48
 Farmville, VA 22431-0048
 Telephone: (540) 753-2139
 Telex: 250000
 Facsimile: (540) 753-2220

BRANCH OFFICE
Engineers • Planners
 109 East Walnut Street
 P. O. Box 1776
 Goldsboro, NC 27530-1776
 Telephone: (919) 735-2333
 Telex: 250000
 Facsimile: (919) 735-2351

EROSION CONTROL DETAILS
CONTRACT NO. 3 - SITE IMPROVEMENTS
2025 AIRPORT HANGER PROJECT
DUPLIN COUNTY
NORTH CAROLINA

DUPLIN COUNTY

W:\DBxx_gen\084x_eng\0847_LD\2025-0305-3402 Duplin Co 25-EDC-Hanger Site Wat SS-TS - Planning & Design\DWG\PO20-Erosion Control Details.dwg
Drawing: Erosion Control Details
Layout: Erosion Control Details
Plotted: Friday, May 16, 2025, 4:16:00pm

<div><div>20180501</div><div></div><div>SD070004</div></div> <div><p>CONSTRUCTION SPECIFICATIONS</p><p>MATERIALS</p><ol style="list-style-type: none">USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLYMER OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120° F.ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.<p>CONSTRUCTION</p><ol style="list-style-type: none">CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITHIN 4 FEET MINIMUM OVERLAP TO THE NEXT POST.SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.<p>INSTALLATION SPECIFICATIONS</p><ol style="list-style-type: none">THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.INSTALL POSTS 4 FEET APART IN CRITICAL AREAS 6 FEET APART ON STANDARD APPLICATIONS.INSTALL POSTS 2 FEET DEEP ON THE DOWNSLOPE SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSLOPE SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF 4 TRIPS.<p>MAINTENANCE</p><ol style="list-style-type: none">INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.</div>	<div><div>20130613</div><div></div><div>SD070525R</div></div> <div><p>NOTE: STRUCTURAL STONE SHALL BE (CLASS "B") STONE FOR EROSION CONTROL PURPOSES. SEDIMENT CONTROL STONE SHALL BE NO. 5 OR NO. 57 STONE.</p><p>THE CONTRACTOR SHALL INSTALL STONE OUTLETS AS ILLUSTRATED ABOVE AT ALL AREAS WHERE RUNOFF IS DETERMINED TO EXCEED SILT FENCING'S CAPABILITY TO PREVENT SEDIMENT FROM BEING RETAINED.</p></div>	<div><div>20130613</div><div></div><div>SD070525R</div></div> <div><p>INSTALLATION:</p><p>EXCELSIOR MATTING WITH PHOTO DEGRADABLE PLASTIC WEAVING SHALL BE USED AS AUTHORIZED BY THE ENGINEER FOR SLOPE TREATMENT IN AREAS WHERE STEEP GRADES MAY CAUSE EROSION. INSTALLATION INSTRUCTIONS AS FOLLOWS:</p><ol style="list-style-type: none">APPLY LIME, FERTILIZER AND SEED BEFORE LAYING THE MAT.START LAYING THE MAT FROM TOP OF THE SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL OR MULCH WITHOUT WRINKLES, DO NOT STRETCH.TO SECURE THE NET, BURY THE UPSLOPE END IN A SLOT OR TRENCH NO LESS THAN 6 INCHES DEEP, COVER WITH SOIL, AND TAMP FIRMLY AS SHOWN. STAPLE THE MAT EVERY 12 INCHES ACROSS THE TOP END AND EVERY 3 FT AROUND THE EDGES AND BOTTOM, WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3 INCHES AND STAPLED TOGETHER. EACH STRIP OF NETTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3 FT. DO NOT STRETCH THE NET WHEN APPLYING STAPLES.TO JOIN TWO STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW NET. OVERLAP THE END OF THE PREVIOUS ROLL 18 INCHES, AS SHOWN, AND STAPLE EVERY 12 INCHES JUST BELOW THE ANCHOR SLOT.<p>MAINTENANCE:</p><p>INSPECT ALL MATTING PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION OR FAILURE. WHERE EROSION IS OBSERVED, APPLY ADDITIONAL MATTING. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED, AND REINSTALL MATTING. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.</p></div>	<div><div>20110119</div><div></div><div>SD070525R</div></div> <div><p>AT EACH END OF DROP INLET ORIENT ONE BLOCK WITH HOLES HORIZONTAL TO ALLOW WATER THROUGH</p><p>8" X 8" X 16" CONCRETE BLOCK (TYPICAL)</p><p>MAX. SLOPE 1:2</p><p>BOTTOM BLOCK WITH HOLES SIDWAYS COVER HOLES WITH HARDWARE CLOTH</p></div>	<div><div>Professional Seal: Joseph W. McKenney, Professional Engineer, No. 28431, State of North Carolina, Exp. 12/31/25.</div><div>McDavid Associates, Inc. Seal: 1972, State of North Carolina.</div></div> <div><div>McDAVID ASSOCIATES, INC.</div><div>Corporate License No. C-131 CORPORATE OFFICE Engineers & Surveyors 2714 North Main Street P. O. Box 1776 Goldensboro, NC 27330 Telephone: (336) 693-9989 Facsimile: (336) 735-7220</div><div>BRANCH OFFICE Engineers & Surveyors 109 East Walnut Street P. O. Box 1776 Goldensboro, NC 27330 Telephone: (336) 735-7220 Facsimile: (336) 735-7220</div></div> <div><div>EROSION CONTROL DETAILS</div><div>CONTRACT NO. 3 - SITE IMPROVEMENTS</div><div>2025 AIRPORT HANGER PROJECT</div><div>DUPLIN COUNTY</div><div>NORTH CAROLINA</div></div> <div><div>DUPLIN COUNTY</div><div>SHEET 20 OF 21</div></div>
<div><div>TEMPORARY SILT FENCE</div><div>A</div></div>	<div><div>STONE OUTLET IN SILT FENCING</div><div>B</div></div>	<div><div>EXCELSIOR MATTING</div><div>C</div></div>	<div><div>BLOCK AND GRAVEL FILTER FOR DROP INLET</div><div>D</div></div> <div><p>INSTALLATION:</p><ol style="list-style-type: none">Compost socks (wattles) should be located as shown on the erosion and sedimentation control plan.Prior to installation, clear all obstructions including rocks, clods, and other debris greater than one inch that may interfere with proper function of the compost sock.Compost socks should be installed parallel to the toe of a graded slope, a minimum of 10 feet beyond the toe of the slope. Socks located below flat areas should be located at the edge of the land-disturbance. The ends of the socks should be turned slightly up slope to prevent runoff from going around the end of the socks.Compost socks (wattles) installed around drop inlets shall overlap 1'-3' as shown on the detail.Fill sock netting uniformly with compost to the desired length such that logs do not deform.Oak or other durable hardwood stakes shall be 2" X 2" in cross section.In the event staking is not possible (i.e., when socks are used on pavement) heavy concrete blocks shall be used behind the sock to hold it in place during runoff events.If the compost sock (wattle) is to be left as part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation using the seeding specification in the erosion and sedimentation control plan.Compost socks are not to be used in perennial or intermittent streams.<p>MAINTENANCE:</p><p>Inspect compost socks (wattles) weekly and after each significant rainfall event (1/2 inch or greater). Remove accumulated sediment and any debris. Accumulated sediment shall not exceed 1/2 the diameter of the wattle. The compost sock must be replaced if clogged or torn. If ponding becomes excessive, the sock may need to be replaced with a larger diameter or a different measure. The sock needs to be reinstalled if undermined or dislodged. The compost sock shall be inspected until land disturbance is complete and the area above the measure has been permanently stabilized</p></div>	<div><div>E</div><div>F</div><div>TEMPORARY WATTLES</div><div>G</div></div>

SHEET 21 OF 21

- GENERAL**
- THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
 - DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.
 - WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.
 - WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
 - IF ANY DIMENSION IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRIOR TO THE SCHEDULED BID DATE.
 - THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
 - THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
 - SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.

CONTRACTOR RESPONSIBILITY

- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.
- THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE STRUCTURAL WORK IS COMPLETE.
- ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY OF THE HANGING SYSTEM TO SUPPORT THE COMPONENTS.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMING. SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.
- PRINCIPAL OPENINGS IN THE DRAWINGS ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED PER TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13. "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
- SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - ☐ SPECIALTY FOUNDATION SYSTEM
 - ☐ POST-TENSIONED CONCRETE (LAYOUT AND STRESSING)
 - ☐ STRUCTURAL PRECAST CONCRETE
 - ☐ ARCHITECTURAL PRECAST CONCRETE
 - ☒ STRUCTURAL STEEL (CONNECTIONS)
 - ☒ PREFABRICATED METAL BUILDING
 - ☐ STEEL STAIRS AND RAILINGS
 - ☐ STEEL JOISTS AND STEEL JOIST GIRDERS
 - ☐ ROOF ANCHORS
 - ☐ NON-LOAD BEARING COLD-FORMED STEEL
 - ☐ LOAD BEARING COLD-FORMED STEEL
 - ☐ LIGHT GAUGE COLD-FORMED STEEL TRUSSES
 - ☐ PREFABRICATED WOOD TRUSSES
 - ☐ ANCHOR TIE-DOWN SYSTEM FOR WOOD SHEAR WALLS

DESIGN CRITERIA

- PROJECT LOCATION: 222 AIRPORT ROAD | KENANSVILLE, NC 28349
- APPLICABLE CODES:
 - 2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS)
 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10)
 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
 - BUILDING CODE REQUIREMENTS/SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530/530.1-13)
 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10)
 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015)
 - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AIS1 S100-12)
- RISK CATEGORY: II
- DEFLECTION:
 - ROOF FRAMING: L/120 FOR TOTAL LOADING (3.00" FOR 30' SPAN), L/180 FOR LIVE LOADING (2.00" FOR 30' SPAN)
 - STRUCTURAL DRIFT LIMITS: C
 - SEISMIC: PER ASCE 7 12.12
- LIVE LOADS:

	UNIFORM (PSF)	CONCENTRATED (LB)
CORRIDORS (GROUND)	100	2,000
MECHANICAL	150	NA
OFFICE	65*	2,000
PUBLIC AREAS, LOBBIES	100	2,000
ROOF	20	300
STORAGE	125	NA

* ADDITIONAL 15 PSF PARTITION LOAD INCLUDED
- SNOW LOAD:
 - GROUND SNOW LOAD: $p_g = 10$ PSF
 - IMPORTANCE FACTOR: $I_s = 1.00$
 - SNOW EXPOSURE FACTOR: $C_s = 1.00$
 - THERMAL FACTOR: $C_t = 1.20$
 - FLAT SNOW ROOF LOAD: $p_f = 14$ PSF
- WIND LOAD:
 - BASIC DESIGN WIND SPEED: $V = 129$ MPH (ALLOWABLE STRESS DESIGN WIND SPEED, $V_{all} = 100$ MPH)
 - EXPOSURE CATEGORY: C
 - INTERNAL PRESSURE COEFFICIENTS: ± 0.18
 - MAIN WIND FORCE RESISTING SYSTEM AND LOADING PER BUILDING MANUFACTURER
- COMPONENTS AND CLADDING -
 - ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS AS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE ULTIMATE DESIGN WIND SPEED AND EXPOSURE CATEGORY LISTED ABOVE. ALTERNATIVELY, THE COMPONENT MANUFACTURER MAY USE THE WORST-CASE PRESSURES (PSF) BELOW:

	ZONE	EFFECTIVE WIND AREA (SF)				
		10	50	100	500	
ROOF	1	+18	+16	+16	+16	
		-19	-25	-25	-25	
	2	+18	+16	+16	+16	
WALL	3	+18	+16	+16	+16	
		-126	-98	-85	-59	
	4	+40	+36	+33	+30	
	5	+40	+36	+33	+30	

- SEISMIC LOAD:
 - DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE
 - S_s : 17.1 %g
 - S_1 : 7.9 %g
 - S_{d5} : 18.2 %g
 - S_{d1} : 12.7 %g
 - IMPORTANCE FACTOR: $I_s = 1.00$
 - SITE CLASS: B
 - SEISMIC DESIGN CATEGORY: B
 - SEISMIC FORCE-RESISTING SYSTEM AND LOADING PER BUILDING MANUFACTURER
- FUTURE LOADS:
 - UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

FOUNDATIONS

- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY: SMSE, DATED APRIL 24, 2025 (PROJECT # 25060014).
- THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE IS 2,000 PSF BASED PENDING REPORT.
- ALL RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS NOTED ON THE DRAWINGS MUST BE FOLLOWED IN PREPARATION OF THE SUBGRADE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL OBTAIN THE REPORT FROM THE OWNER AND BE FAMILIAR WITH THE RECOMMENDATIONS CONTAINED THEREIN PRIOR TO THE START OF CONSTRUCTION. IF CONDITIONS IF ANY RIGGER IS IN DOUBT AS TO THE CORRECTNESS OF THOSE DESCRIBED IN THE REPORT, THE OWNER SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD SO THE RECOMMENDATIONS CAN BE REEVALUATED.
- GROUNDWATER IS ASSUMED TO POSE AN ISSUE DURING CONSTRUCTION BASED ON THE INFORMATION NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DETERIORATING DURING CONSTRUCTION AS REQUIRED TO PERFORM THEIR WORK.
- FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN.
- MINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS:
 - PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 5'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS.
 - COMPACT ALL FILL UNDER BUILDING TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AND 98% WITHIN THE TOP 12 INCHES.
 - PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER EQUIPMENT).
 - SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4".
- FIELD COMPACT SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DENSITY-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS.
- WALLS RETAINING SOIL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
- WALLS RETAINING SOIL HAVE BEEN DESIGNED UTILIZING THE FOLLOWING PARAMETERS:

MOIST SOIL UNIT WEIGHT	120 PCF
ACTIVE PRESSURE COEFFICIENT	0.33
AT-REST PRESSURE COEFFICIENT	0.55
PASSIVE PRESSURE COEFFICIENT	2.50
COEFFICIENT OF FRICTION	0.35
- UTILITY LINES SHALL NOT BE PLACED THOUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.

CONCRETE | REINFORCING STEEL

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).
- CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION):

CLASS	FOOTINGS, GRADE/PIE BEAMS	3,000 PSI
CLASS B - FOUNDATION WALLS, PEDESTALS	NWC	4,500 PSI
CLASS C - INTERIOR SLABS ON GRADE	NWC	3,000 PSI
CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPINGS	NWC	4,500 PSI
- WELDED WIRE FABRIC - ASTM A666 (FLAT SHEETS ONLY)
- GROUT UNDER BASE PLATES TO BE HIGH STRENGTH (5,000 PSI), NON-SHRINK.
- REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS.
- LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM.
- REINFORCING STEEL SHALL BE CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING) -

CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH/WEATHER	2" FOR #6 BARS AND LARGER, 1 1/2" ELSE
CONCRETE NOT EXPOSED TO EARTH/WEATHER	3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS

POST-TENSIONED CONCRETE (MEASURE TO OUTERMOST REINFORCING) -

CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH/WEATHER	1" FOR SLABS AND WALLS, 1 1/2" ELSE
CONCRETE NOT EXPOSED TO EARTH/WEATHER	3/4" FOR SLABS AND WALLS, 1" (TO TIES) AND 1 1/2" (TO MAIN BARS) FOR BEAMS AND COLUMNS
- WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH OF THE STIRRUP SPACING IN BEAMS.
- WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.
- PROVIDE VERTICAL DOVETAIL SLOTS AT 24"OC WITH TIES AT 16"OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER.
- BAR SUPPORTS FOR CONCRETE EXPOSED TO VENT SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION.
- MECHANICAL AND ELECTRICAL CONDUIT SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS AND REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION.
- MECHANICAL AND ELECTRICAL CONDUIT IN ELEVATED SLABS IS NOT ALLOWED UNLESS SPECIFICALLY REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- HEADED CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE. NOT PLACED INTO TOP OF WET CONCRETE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS.
- FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER EARLY AND ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.
- REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER EARLY AND ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.

CONCRETE CONSTRUCTION JOINTS

- CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL CONSTRUCTION JOINT DETAILS.

STRUCTURAL STEEL

- DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360).
- STRUCTURAL STEEL MATERIALS:
 - WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI)
 - CHANNELS AND ANGLES - ASTM A36 (FY=36 KSI)
 - PLATES AND BARS - ASTM A36 (FY=36 KSI) OR ASTM A572, GRADE 50 (FY=50 KSI) AS INDICATED ON THE DRAWINGS.
 - SQUARE AND RECTANGULAR TUBES - ASTM A500, GRADE B (FY=46 KSI)
 - PIPES OR ROUND TUBES - ASTM A53, GRADE B (FY=35 KSI) OR ASTM A500, GRADE B (FY=42 KSI)
- A QUALIFIED FABRICATOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN FABRICATING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO FABRICATE THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING:
 - FABRICATOR PARTICIPATES IN THE AISI QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISI-CERTIFIED PLANT, CATEGORY (BU) OR IS ACCREDITED BY THE IAS FABRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCREDITATION CRITERIA 172).
 - FABRICATOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION OF THE ITEMS NOTED IN ANSI/AISC 360 N2.
- A QUALIFIED ERECTOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN ERECTING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS PROJECT AND SUFFICIENT CAPACITY TO ERECT THE STRUCTURAL STEEL WITHOUT DELAYING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING:
 - ERECTOR PARTICIPATES IN THE AISI QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISI-CERTIFIED ERECTOR, CATEGORY (CSE).
 - ERECTOR HAS AN ESTABLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 360, AND THE CONTRACT DOCUMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS INSPECTION OF THE ITEMS NOTED IN ANSI/AISC 360 N2.
- BEAM SIMPLE SHEAR, BRACED FRAME, AND ALL MOMENT CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE STEEL SUPPLIER AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CONNECTION ENGINEER SHALL SUBMIT A SIGNED AND SEALED LETTER STATING THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS AND THE CONNECTIONS ARE CONSISTENT WITH THEIR CALCULATIONS AND INTENT.
- THE CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR FOR REACTIONS DETERMINED BY USING THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISI STEEL CONSTRUCTION MANUAL FOR THE SECTION, SPAN, AND STRENGTH OF STEEL SPECIFIED. THE CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR AS DICTATED BY THE TYPICAL COMPOSITE SLAB DETAIL.
- SIMPLE SHEAR CONNECTIONS SHALL BE MADE WITH ASTM A325 3/4"Ø BOLTS (MINIMUM), TIGHTENED TO A SNUG-TIGHT CONDITION PER AISI REQUIREMENTS.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS. WHERE STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED, PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF MEMBER. SIZE OF FILLETS SHALL BE 3/16" FOR MEMBER THICKNESS UP TO 5/16", AND THE MEMBER THICKNESS MINUS 3/16" FOR ALL THICKER MATERIALS.
- ANCHOR AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36, SS, OR 105 AS INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE INSTALLATION OF ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION WITHOUT DELAYING THE WORK.
- STEEL SHALL BE PRIMED WITH FABRICATOR'S STANDARD LEAD- AND CHROMATE-FREE, NON-ASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MPI F79 (MINIMUM COAT OF 3 MILS, MAXIMUM OF 5 MILS). CONTRACTOR TO COORDINATE SELECTION OF PRIMER WITH TOPCOATS TO BE APPLIED TO ENSURE THE TWO ARE COMPATIBLE. MEMBERS TO RECEIVE FIREPROOFING OR TO BE ENCASED IN CONCRETE SHALL NOT BE PRIMED.
- SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING, NAILERS, CLIPS AND TIES IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CAP ALL OPEN HSS OR PIPE MEMBERS OUTSIDE THE BUILDING ENVELOPE WITH A 1/4" (MINIMUM) FITTED PLATE, UNO.
- ERECTOR SHALL SET STRUCTURAL STEEL IN LOCATIONS AND TO ELEVATIONS IN ACCORDANCE WITH ANSI/AISC 303 AND 360. MAINTAIN THE FRAME WITHIN ERECTION TOLERANCES PER ANSI/AISC 303.
- PROMPTLY PACK SHRINKAGE-RESISTANT GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES SO NO VOIDS REMAIN.
- SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. THERMAL CUTTING MAY NOT BE USED IN THE FIELD DURING ERECTION.
- QUALITY CONTROL INSPECTION TASKS SHALL BE PERFORMED BY BOTH THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH ANSI/AISC 360 N5. NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING FABRICATION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY OR THE FABRICATOR'S QCI. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
- AT THE COMPLETION OF FABRICATION AND ERECTION, THE FABRICATOR AND ERECTOR SHALL EACH SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER STATING THE MATERIALS SUPPLIED AND WORK PERFORMED ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING ERECTION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
- ALL STEEL EXPOSED TO VIEW SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY ANSI/AISC 303 AND SHALL BE TREATED AS SUCH.

PREFABRICATED METAL BUILDING

- DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360). DESIGN AND CONSTRUCTION OF THE PREFABRICATED METAL BUILDING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- DESIGN CRITERIA:
 - MAXIMUM HORIZONTAL DRIFT - $H/180$ (H = MEAN HEIGHT OF STRUCTURE)
 - MINIMUM COLLATERAL LOAD - 10 PSF PLUS ROOF TOP MECHANICAL UNITS, HANGING EQUIPMENT, STAGE CURTAINS, BASKETBALL GOALS, ETC.
- A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE EXTERIOR WALLS.
- ALL SHOP DRAWINGS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST.
- ALL DRAWINGS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AS A MINIMUM. SUBMIT SHOP DRAWINGS FOR ALL ANCHOR BOLTS INDICATING THE REACTIONS IMPOSED ON THE FOUNDATION.
- FOUNDATION DESIGN ASSUMES PINNED BASE CONNECTIONS FROM THE METAL BUILDING COLUMNS TO THE FOUNDATION. FOUNDATIONS HAVE BEEN DESIGNED FOR REACTIONS INDICATED ON THE DRAWINGS. SUBMIT BASE REACTIONS FOR FOUNDATION DESIGN VERIFICATION AND POSSIBLE FOUNDATION RE-DESIGN. CONTRACTOR SHALL PROVIDE UNIT COSTS FOR POSSIBLE FOUNDATION REVISION.

ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS

- ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER OF RECORD.
- PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE ALTERNATE PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED ANCHOR. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ESR SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE FOR SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND THE AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND DRILLING METHODS.
- BASES OF DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWINGS INCLUDES THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-SATURATED CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES FAHRENHEIT; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT SYSTEM, OR CORE-DRILLING.
- INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE ANCHOR BEING INSTALLED. ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADHESIVE SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER.
- CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. ALTERNATIVELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION THAT ALL PERSONNEL INSTALLING ANCHORS ARE TRAINED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
- THE ULTIMATE TENSION AND SHEAR CAPACITIES SHALL BE DETERMINED BY A JOB SITE TEST PERFORMED ON A MINIMUM OF FIVE INSTALLED SAMPLES WHICH ARE REPRESENTATIVE OF THE ACTUAL INSTALLATIONS. TESTING SHALL BE PERFORMED BY THE ADHESIVE ANCHOR MANUFACTURER OR HIS APPROVED REPRESENTATIVE AND SHALL BE DOCUMENTED FOR THE DESIGN PROFESSIONAL.

REPRODUCTION

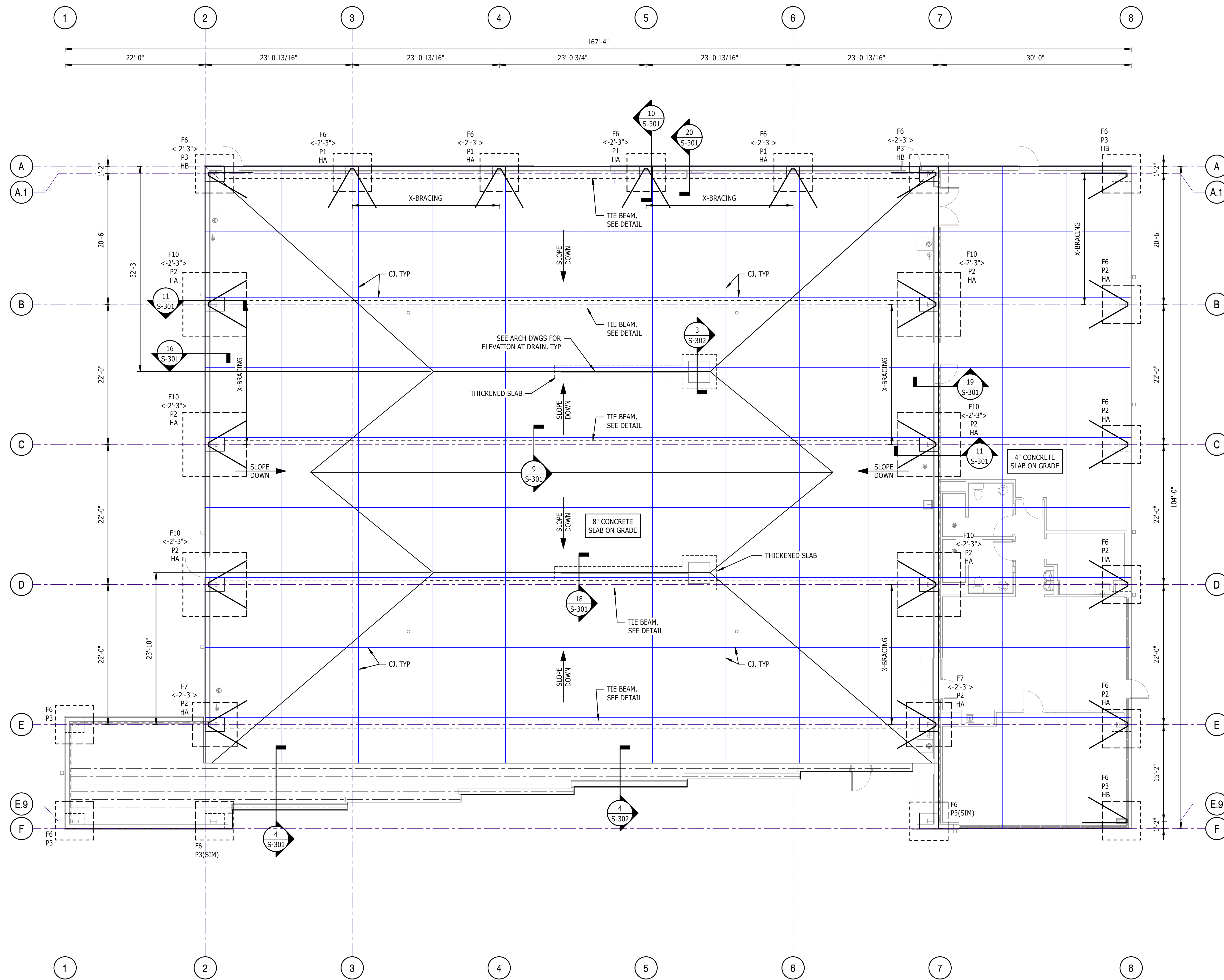
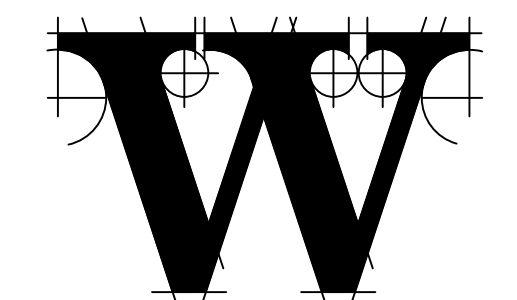
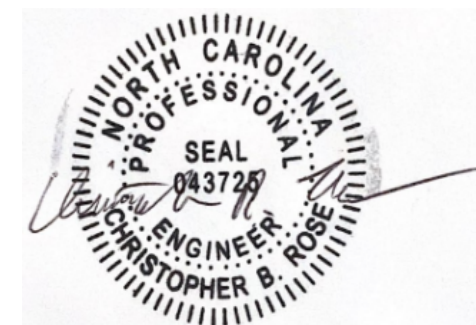
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON.

SYMBOL LEGEND

SYMBOL	MEANING
	SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.
<No>	TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION.
	STEP IN TOP OF FOOTING ELEVATION, SEE "TYPICAL STEP IN WALL FOOTING" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
	DEPRESSED OR RAISED SLAB ELEVATION, SEE "TYPICAL STEP IN SLAB ON GRADE" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
[No]	TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
[No] [+No]	TOP OF STEEL/JOIST BEARING ELEVATION TOP OF STEEL ABOVE STEEL/JOIST BEARING ELEVATION.
	SLOPED STEPPED SLAB.
F#	SPREAD FOOTING TYPE, SEE SCHEDULE.
P#	CONCRETE PEDESTAL TYPE, SEE SCHEDULE.

ABBREVIATIONS

@	AT
&	AND
D	DIAMETER
AB	ANCHOR BOLTS
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADRS	ADHESIVE
AF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ARCH	ARCHITECTS' / ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWW	AMERICAN WELDING SOCIETY
B	BOTTOM
B/ OR NOT	BOTTOM
BCX	BOTTOM CHORD EXTENSION
BBF	BOTTOM FLANGE BRACE
BFF	BOTTOM FINISHED FLOOR
BLOG	BUILDING
BM	BEAM
BOS	BOTTOM OF STEEL
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CL	CONTROL POINT
CLR	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COAR	CONCRETE
CONN	CONNECTION
CONCT JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
DN	NAILS (PENNY)
DRA	DOWNWARD BAR ANCHOR
DEFL	DEFLECTION
DEPR	DEPRESSION / DEPRESSED
DET	DETAIL
DRAG	EXPANSION JOINT
DIM	ELEVATION
DIST	DIMENSION
DWG(S)	DRAWING(S)
DW(S)	DRAWING(S)
EA	EACH
EE	EACH END
EF	EACH FACE
EXP	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDDED / EMBEDMENT
EMBR	EMBED
END	END OF DECK
EOD	EDGE OF SLAB
EOS	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTENDING
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FOM	FACE OF MASONRY
FS	FACE OF WALL
FTG	FOOTING
GA	GALVANIZED
GALV	GALVANIZED
GR	GIRDER TRUSS
HD	HEADED
HE	HORIZONTAL
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
INT	INTERIOR
JT	JOINT
K	KIPS(S)
KB	KNEE BRACE
KSI	KIPS PER SQUARE INCH
LAB	LABOR
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOW	LOW
LOC	LOCATION
LSC	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWT	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MC	MOMENT CONNECTION
MC	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOW	MIDDLE OF WALL
MP	MASONRY PILLASTER
NA	NOT APPLICABLE
No or #	NUMBER
N	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
ON	ON CENTER</



1 FOUNDATION PLAN

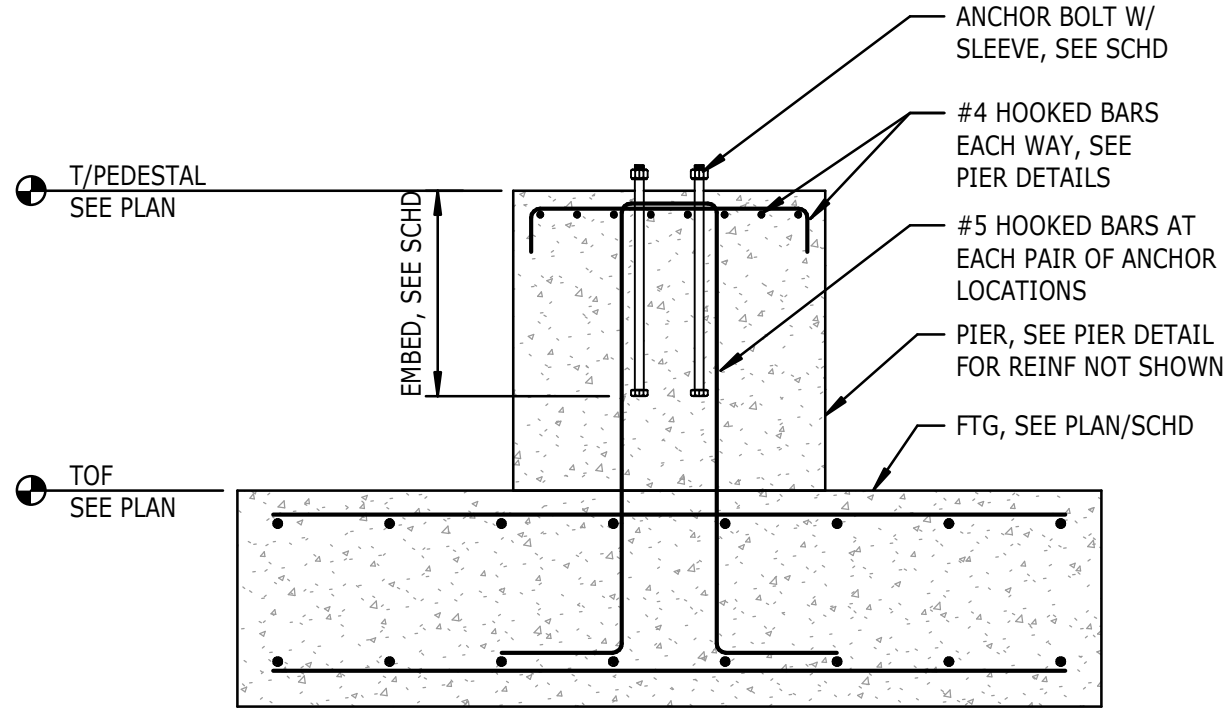
S-101

1/8" = 1'-0"

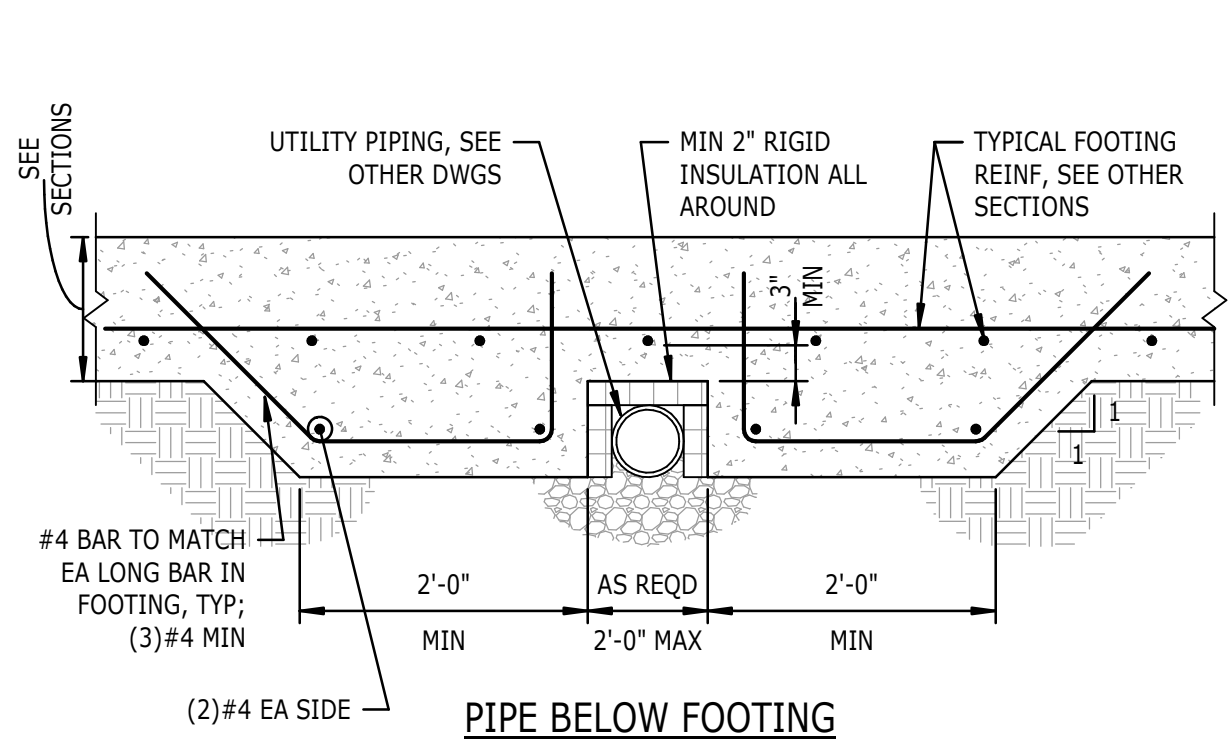
FOUNDATION PLAN NOTES:

1. SEE S-101 SERIES FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOL LEGEND.
2. REFERENCE FINISHED FLOOR ELEVATION 0'-0". SEE CIVIL FOR SITE FINISHED FLOOR ELEVATION.
3. TOP OF FOOTING ELEVATION 2'-0" BELOW FINISHED FLOOR ELEVATION, UNO.
4. TOP OF PEDESTAL ELEVATION AT 0'-0", UNO.
5. FOR TYPICAL SLAB CONSTRUCTION DETAILS, SEE TYPICAL DETAILS.
6. FOOTING SIZES ARE BASED ON PRELIMINARY REACTIONS. FINAL FOOTING SIZES WILL BE PROVIDED BASED ON THE SUBMITTED PEMB SHOP DRAWINGS. CONTRACTOR TO PROVIDE A UNIT PRICE AT BID FOR A BLENDED COST PER CUBIC YARD OF CONCRETE FOOTING ADDED OR REDUCED, BLENDED RATE TO INCLUDE ALL COST ASSOCIATED WITH THE CHANGE IN FOOTING SIZE INCLUDING CONCRETE, REINFORCING, AND EXCAVATION.
7. REINFORCING SHOP DRAWINGS TO BE COMPLETED AFTER REVISED FOOTING SIZES ARE PROVIDED BASED ON FINALIZED PEMB SHOP DRAWINGS.
8. SLOPE EXTERIOR SLABS, SIDEWALKS, AND PAVING AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
9. LATERAL BRACING AND CONNECTIONS BY PEMB SUPPLIER, TYP. COORDINATE BRACING GEOMETRY WITH ARCHITECTURAL DRAWINGS TO AVOID EXPOSED MEMBERS.

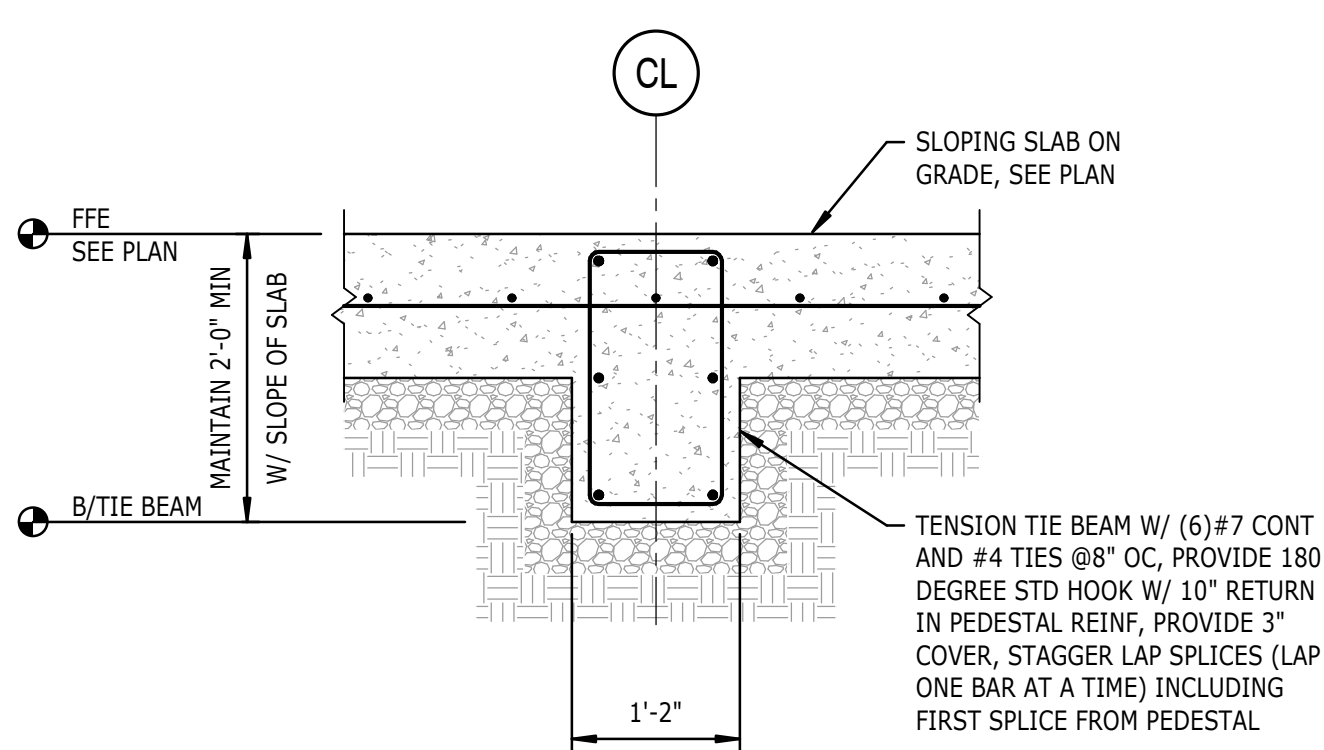
SPREAD FOOTING SCHEDULE					
MARK	SIZE			REINFORCEMENT (EACH WAY)	
	WIDTH	LENGTH	DEPTH	TOP	BOTTOM
F6	6'-0"	1'-3"	1'-3"	(5)#6	(5)#6
F7	7'-0"	7'-0"	1'-3"	(6)#6	(6)#6
F10	10'-0"	10'-0"	2'-0"	(9)#7	(9)#7



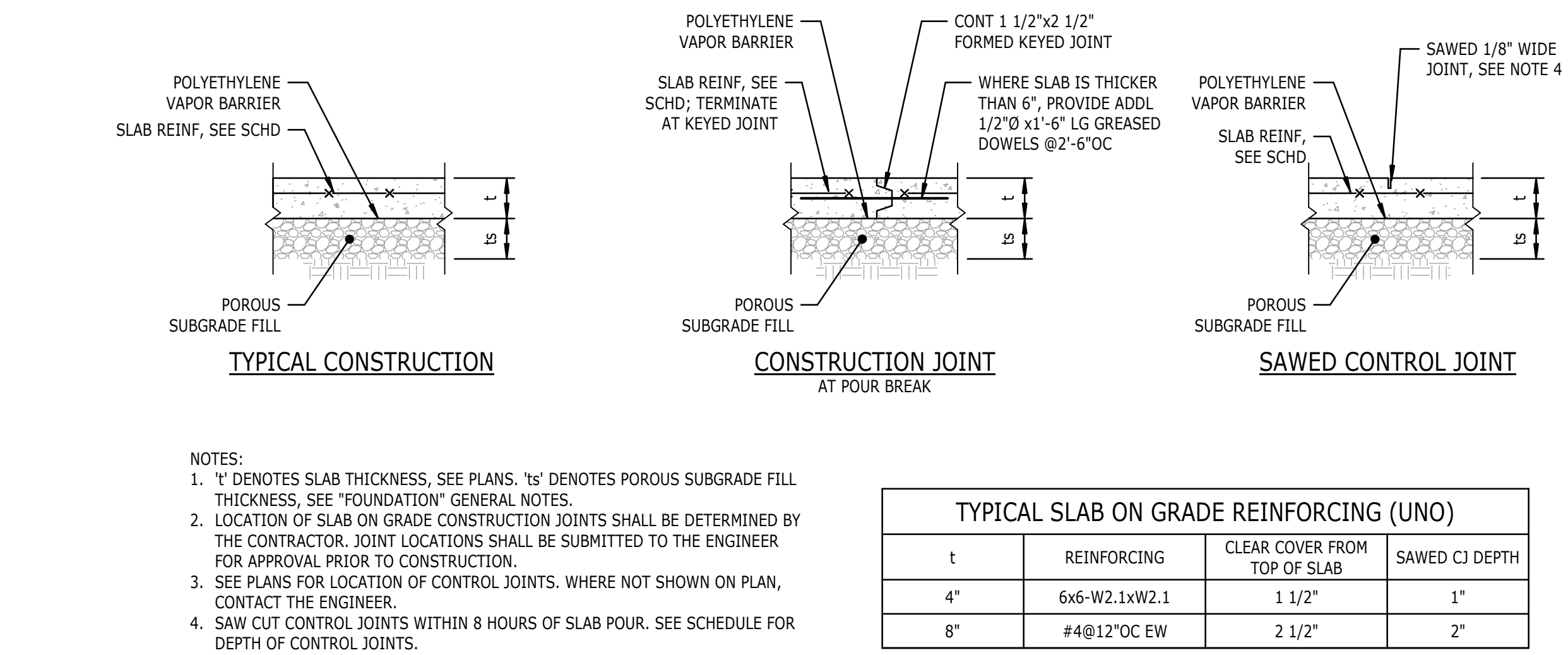
17 ANCHOR BOLT REINFORCING
S-301 3/4" = 1'-0"



13 TYPICAL UTILITY BELOW FOOTING
S-301 3/4" = 1'-0"



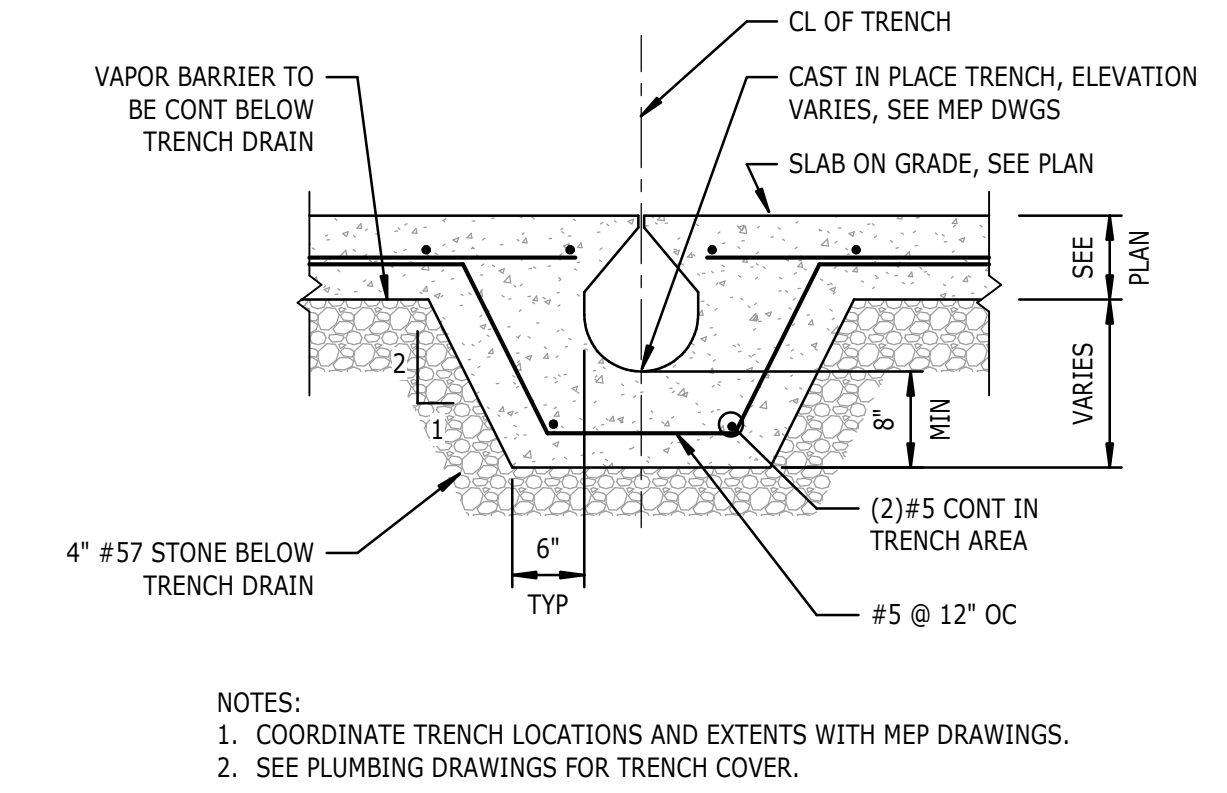
9 TYPICAL TENSION TIE BEAM
S-301 3/4" = 1'-0"



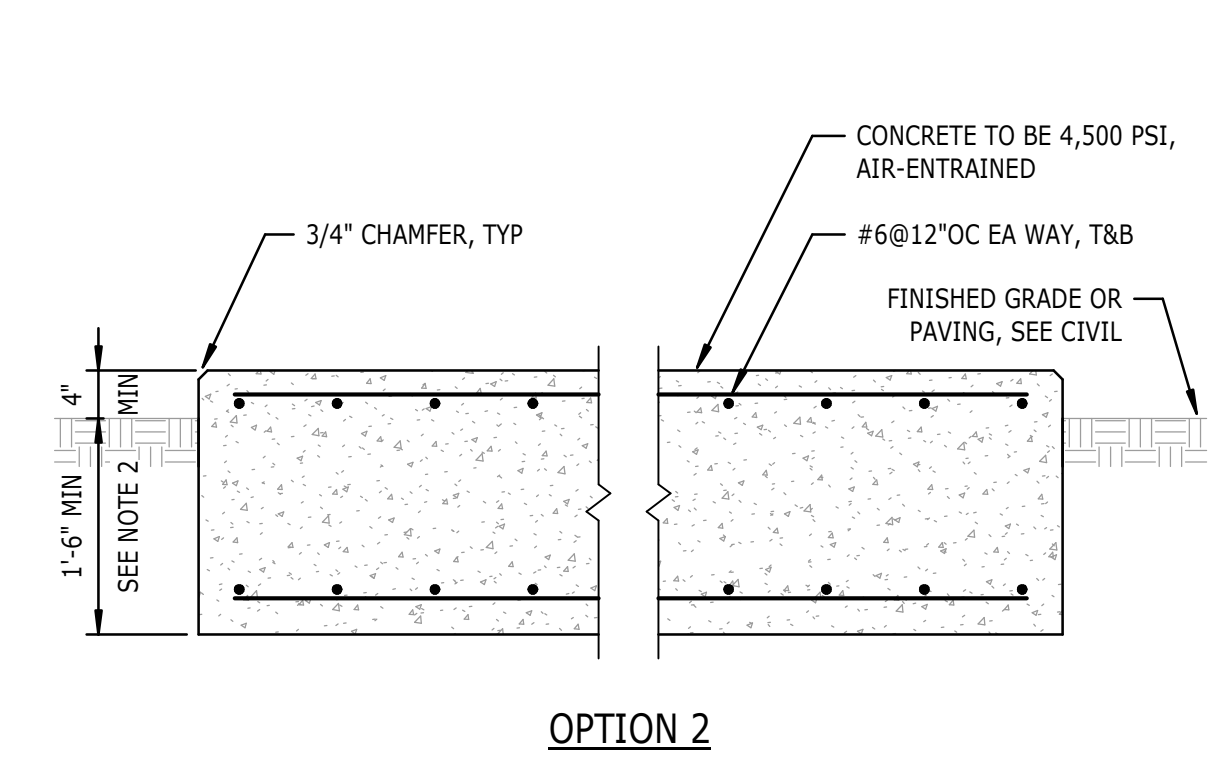
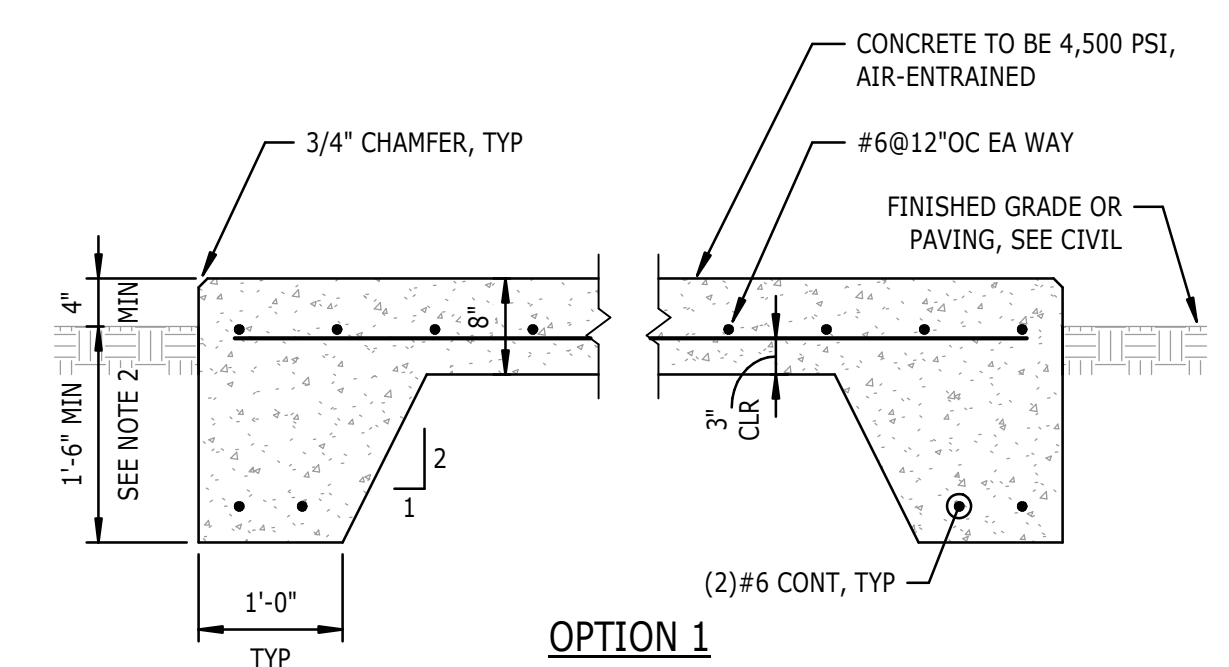
- NOTES:
1. "t" DENOTES SLAB THICKNESS, SEE PLANS. "b" DENOTES POROUS SUBGRADE FILL THICKNESS, SEE "FOUNDATION" GENERAL NOTES.
 2. LOCATION OF SLAB ON GRADE CONSTRUCTION JOINTS SHALL BE DETERMINED BY THE CONTRACTOR. JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 3. SEE PLANS FOR LOCATION OF CONTROL JOINTS. WHERE NOT SHOWN ON PLAN, CONTACT THE ENGINEER.
 4. SAW CUT CONTROL JOINTS WITHIN 8 HOURS OF SLAB POUR. SEE SCHEDULE FOR DEPTH OF CONTROL JOINTS.
 5. 15 MIL-THICK POLYETHYLENE VAPOR BARRIER TO BE PLACED UNDER ALL SLABS, TURNDOWNS, TRENCHES, TRENCH DRAINS, GRADE BEAMS, ETC.

TYPICAL SLAB ON GRADE REINFORCING (UNO)			
t	REINFORCING	CLEAR COVER FROM TOP OF SLAB	SAWED CJ DEPTH
4"	6x6-W2.1xW2.1	1 1/2"	1"
8"	#4@12"OC EW	2 1/2"	2"

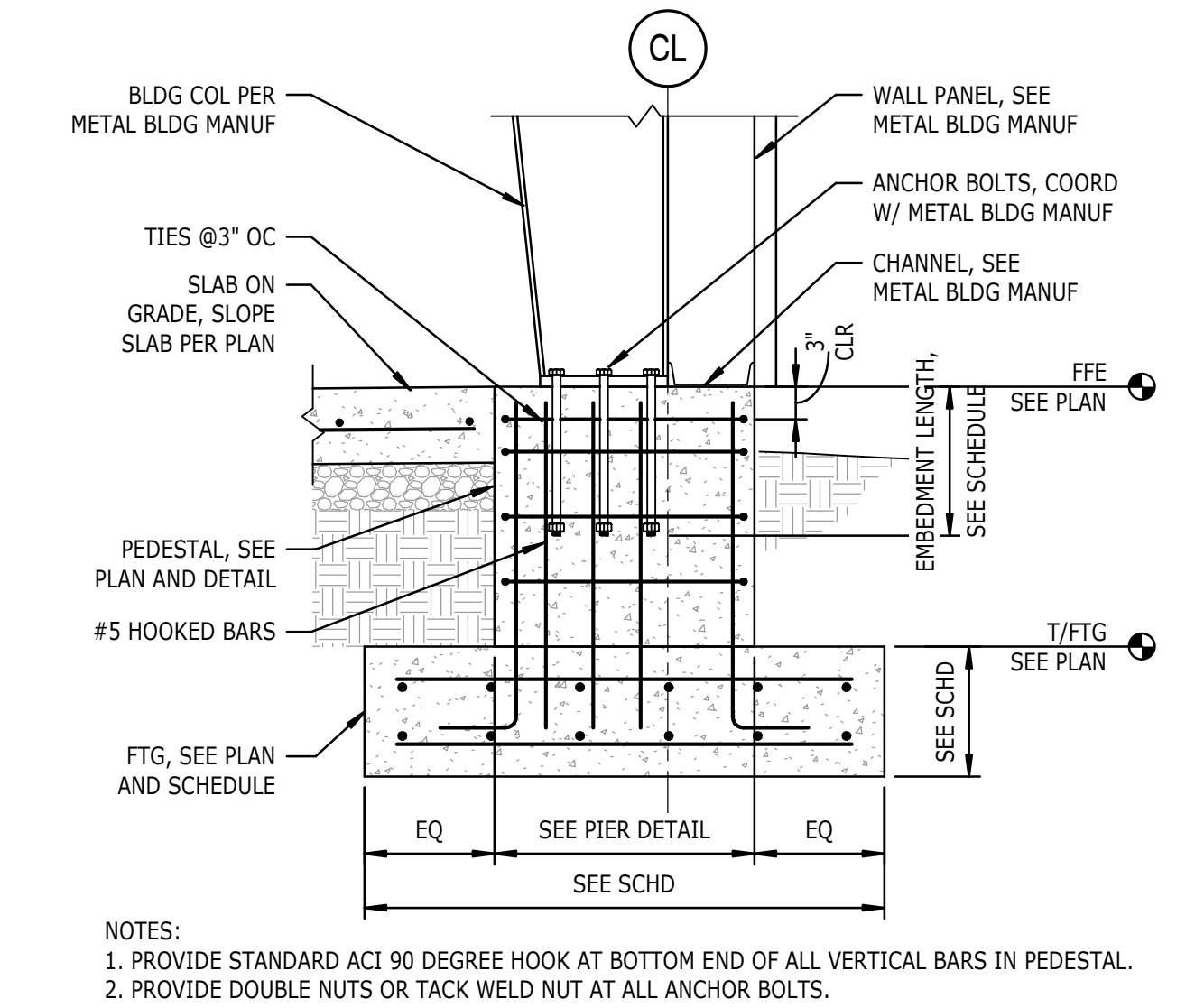
1 TYPICAL SLAB ON GRADE
S-301 1" = 1'-0"



18 SECTION AT TRENCH DRAIN
S-301 3/4" = 1'-0"



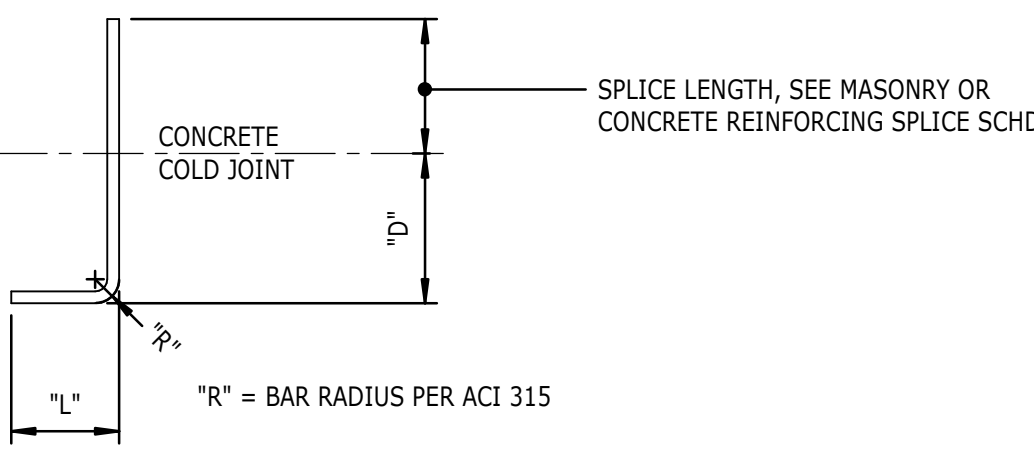
14 TYPICAL EXTERIOR EQUIPMENT PAD
S-301 3/4" = 1'-0"



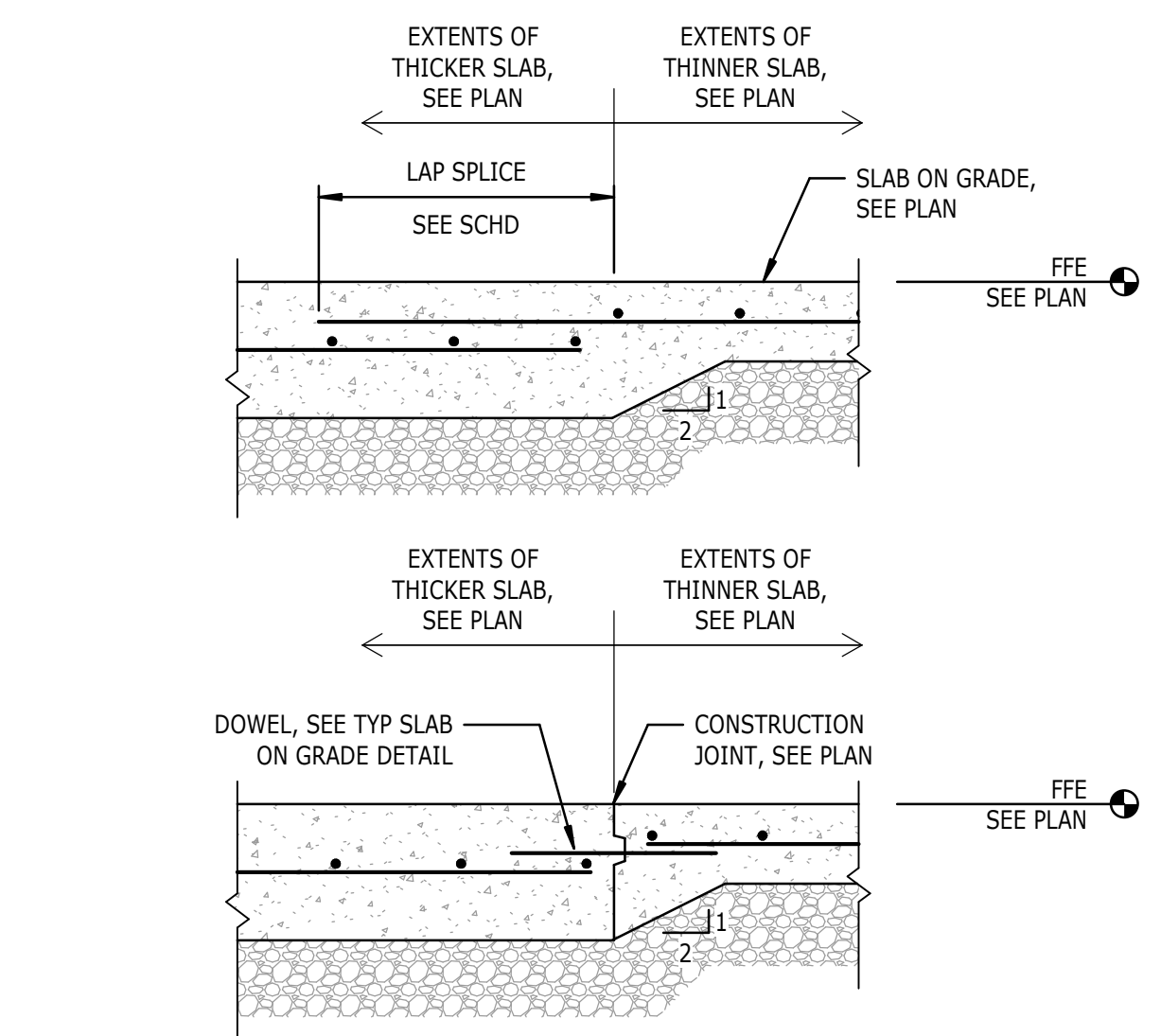
10 SECTION
S-301 TYPICAL COLUMN FTG AT STEEL COLUMN WITH PEDESTAL NTS

CONCRETE REINFORCING DOWEL EMBEDMENT				
BAR SIZE	LEG DIM, "L"	EMBEDMENT, "D"		
		f _c = 3,000 PSI	f _c = 4,000 PSI	f _c = 5,000 PSI
#3	6"	6"	6"	6"
#4	8"	8"	7"	6"
#5	10"	10"	9"	8"
#6	12"	12"	10"	9"
#7	14"	14"	12"	11"
#8	16"	16"	14"	12"
#9	19"	18"	15"	14"
#10	22"	20"	17"	15"
#11	24"	22"	19"	17"

- NOTES:
1. FOR CONCRETE STRENGTHS NOT PROVIDED, USE THE EMBEDMENT LENGTH FOR THE LOWER CONCRETE STRENGTH AS SHOWN IN THE TABLE.
 2. DOWEL LENGTHS BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT, INCREASE DOWEL LENGTH "D" BY 30%.
 3. SIDE COVER ON BARS MUST BE GREATER THAN 2 1/2". END COVER ON 90° HOOKED BARS MUST BE GREATER THAN 2".
 4. FOR EPOXY-COATED BARS, INCREASE THE DOWEL LENGTH "D" BY 20%.

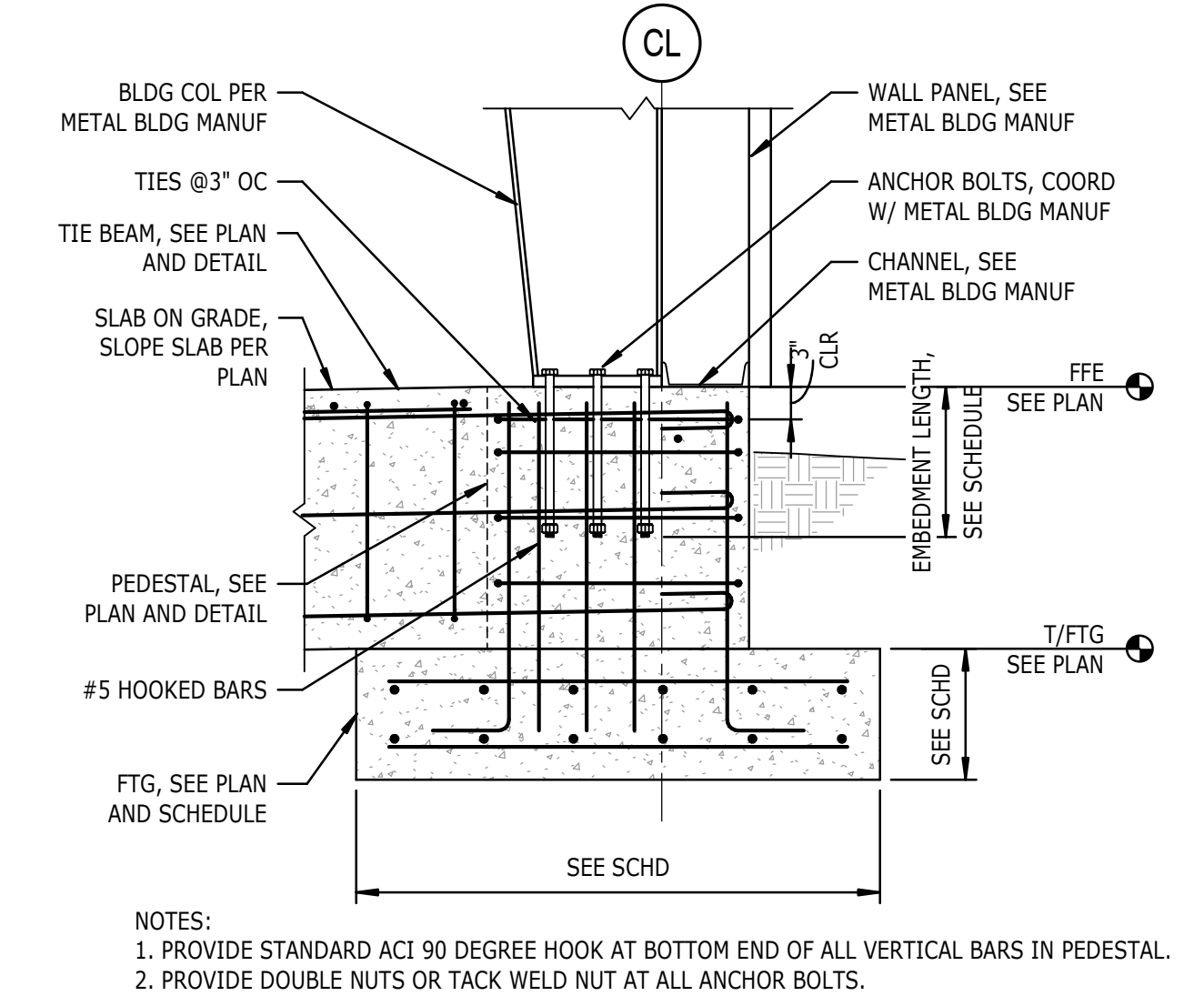


2 DOWEL EMBEDMENT LENGTH SCHEDULE
S-301 3/4" = 1'-0"



19 AT SLAB ON GRADE TRANSITION
S-301 3/4" = 1'-0"

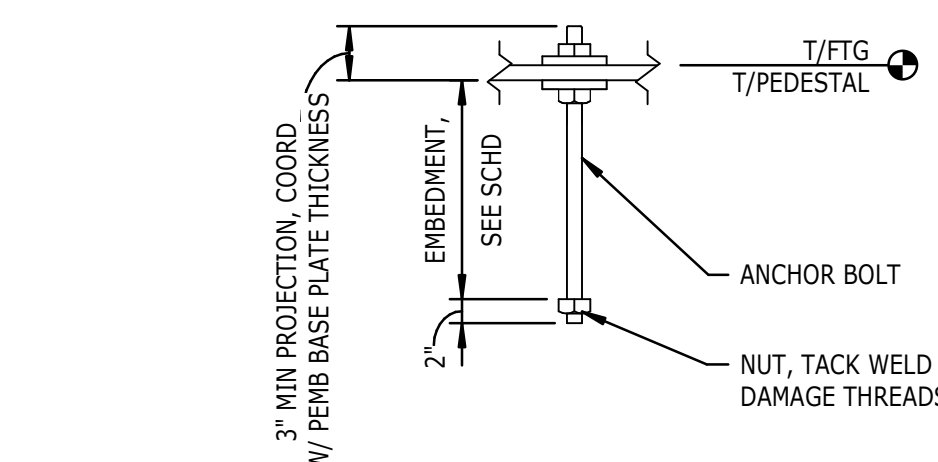
- NOTES:
1. THE EXACT SIZE, SHAPE, AND LOCATION OF EQUIPMENT PADS SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF EQUIPMENT SHOP DRAWINGS. ANCHOR BOLTS WHERE REQUIRED SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
 2. INCREASE DEPTH AS REQUIRED BY THE GEOTECHNICAL REPORT FOR AREA-SPECIFIC FREEZE-THAW DEPTHS.



11 SECTION
S-301 TYPICAL COLUMN FTG AT STEEL COLUMN WITH PEDESTAL AND TIE BEAM NTS

ANCHOR BOLT EMBEDMENT SCHEDULE	
ANCHOR BOLT DIAMETER	FTG/PEDESTAL EMBEDMENT DEPTH (MIN)
5/8" DIA	12"
3/4" DIA	18"
1" DIA	20"
1 1/4" DIA	20"

- NOTE:
1. ANCHOR BOLT DIA, GRADE, LOCATION, AND PROJECTION BY BLDG MANUF.

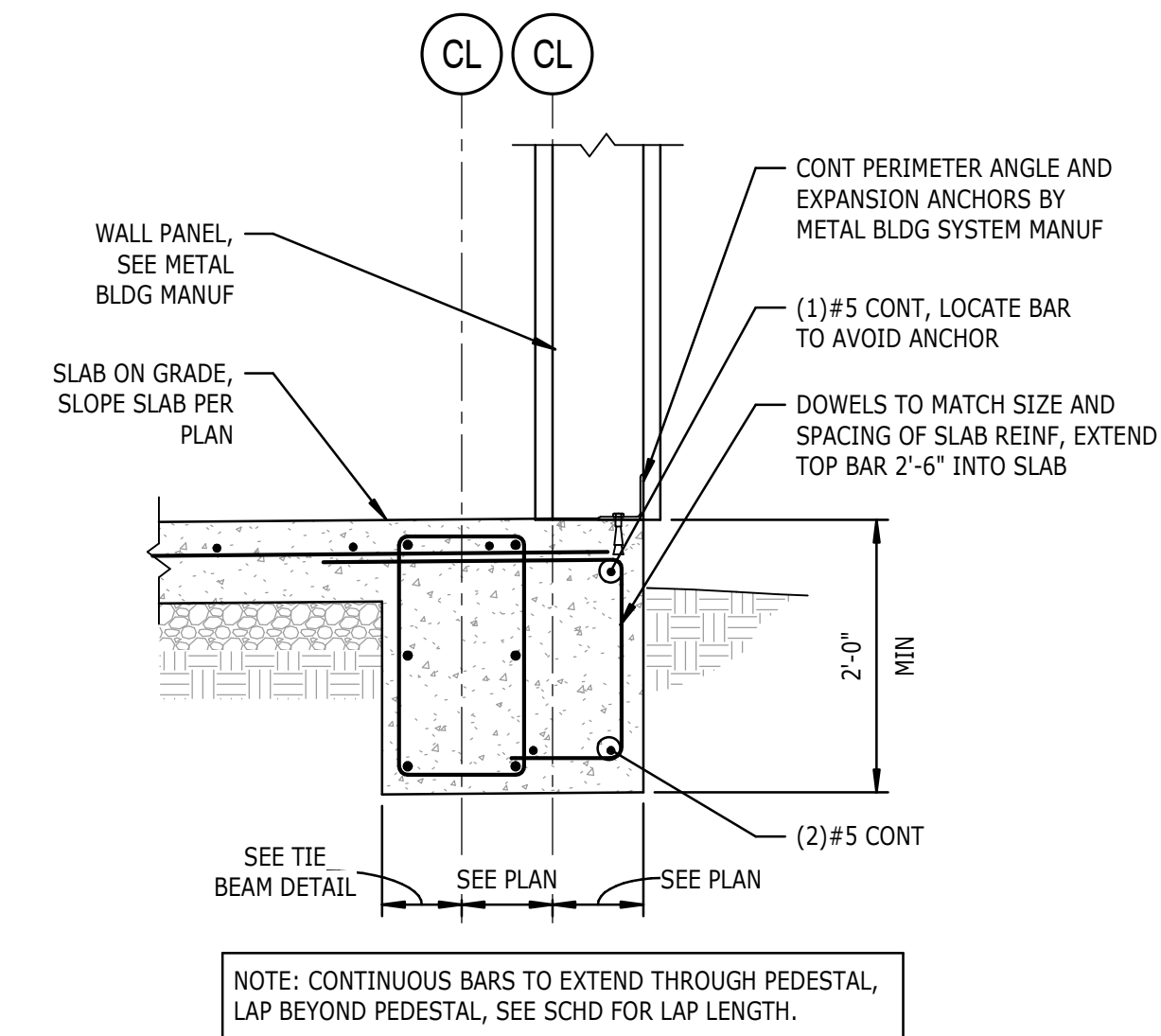


7 STEEL COLUMN BASE PLATE SCHEDULE
S-301 NTS

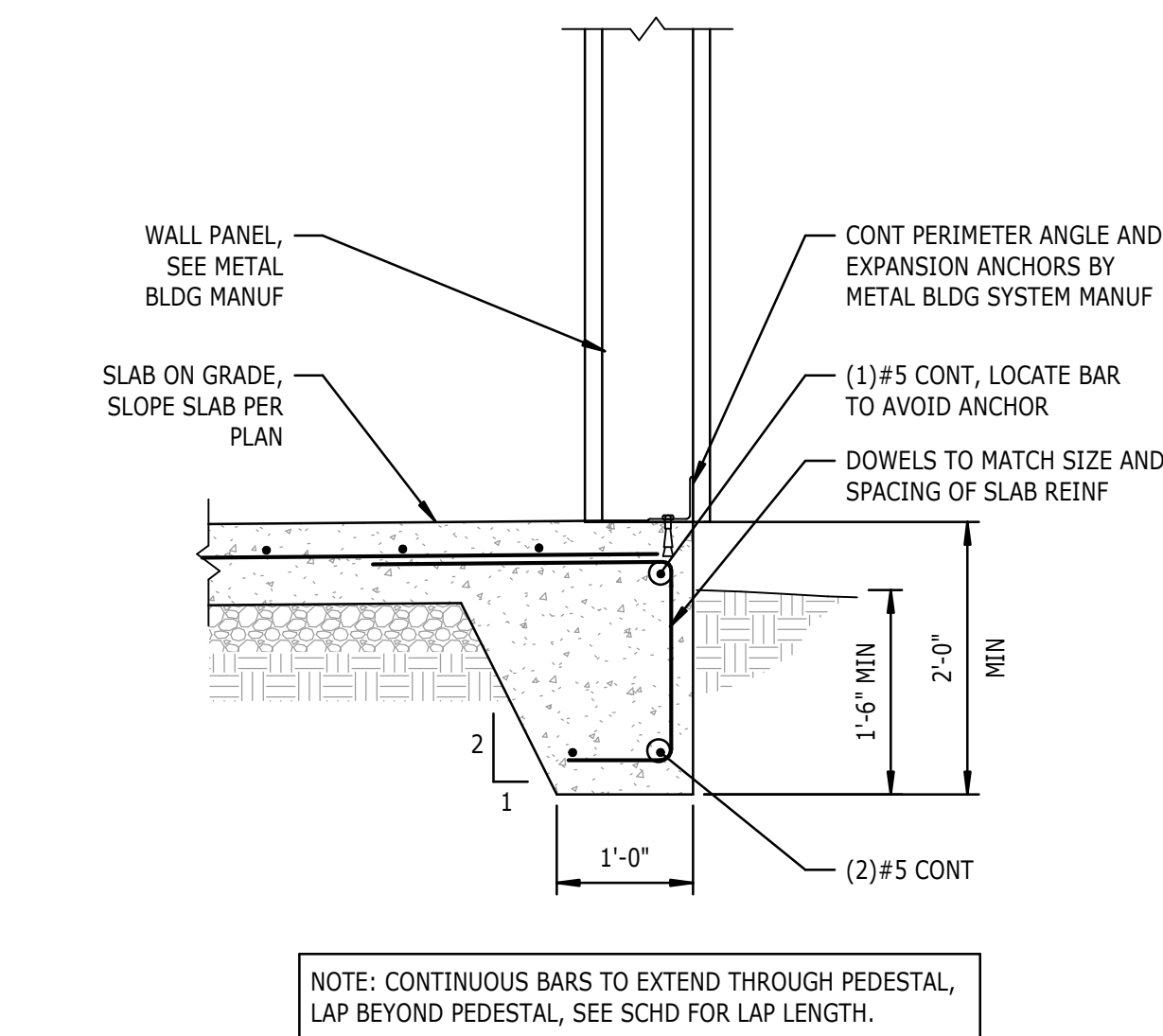
CONCRETE REINFORCING SPLICES			
BAR SIZE	f _c = 3,000 PSI	f _c = 4,000 PSI	f _c = 5,000 PSI
#3	1'-10"	1'-7"	1'-5"
#4	2'-4"	2'-1"	1'-10"
#5	3'-0"	2'-7"	2'-4"
#6	3'-7"	3'-1"	2'-9"
#7	5'-2"	4'-6"	4'-1"
#8	5'-11"	5'-2"	4'-8"
#9	6'-6"	5'-10"	5'-3"
#10	7'-6"	6'-6"	5'-10"
#11	8'-4"	7'-3"	6'-6"

- NOTES:
1. FOR CLASS B LAP SPLICE, SPLICE LENGTH = 1.3 x DEVELOPMENT LENGTH.
 2. APPLIES TO BOTTOM BARS ONLY (LESS THAN 12" OF FRESH CONCRETE BELOW BAR).
 3. APPLIES WHERE THE CLEAR COVER IS GREATER THAN THE BAR DIAMETER.
 4. WHEN MORE THAN 12" OF FRESH CONCRETE BELOW SLICE, THEN INCREASE SPLICE TO 1.3 x SPLICE LENGTH.

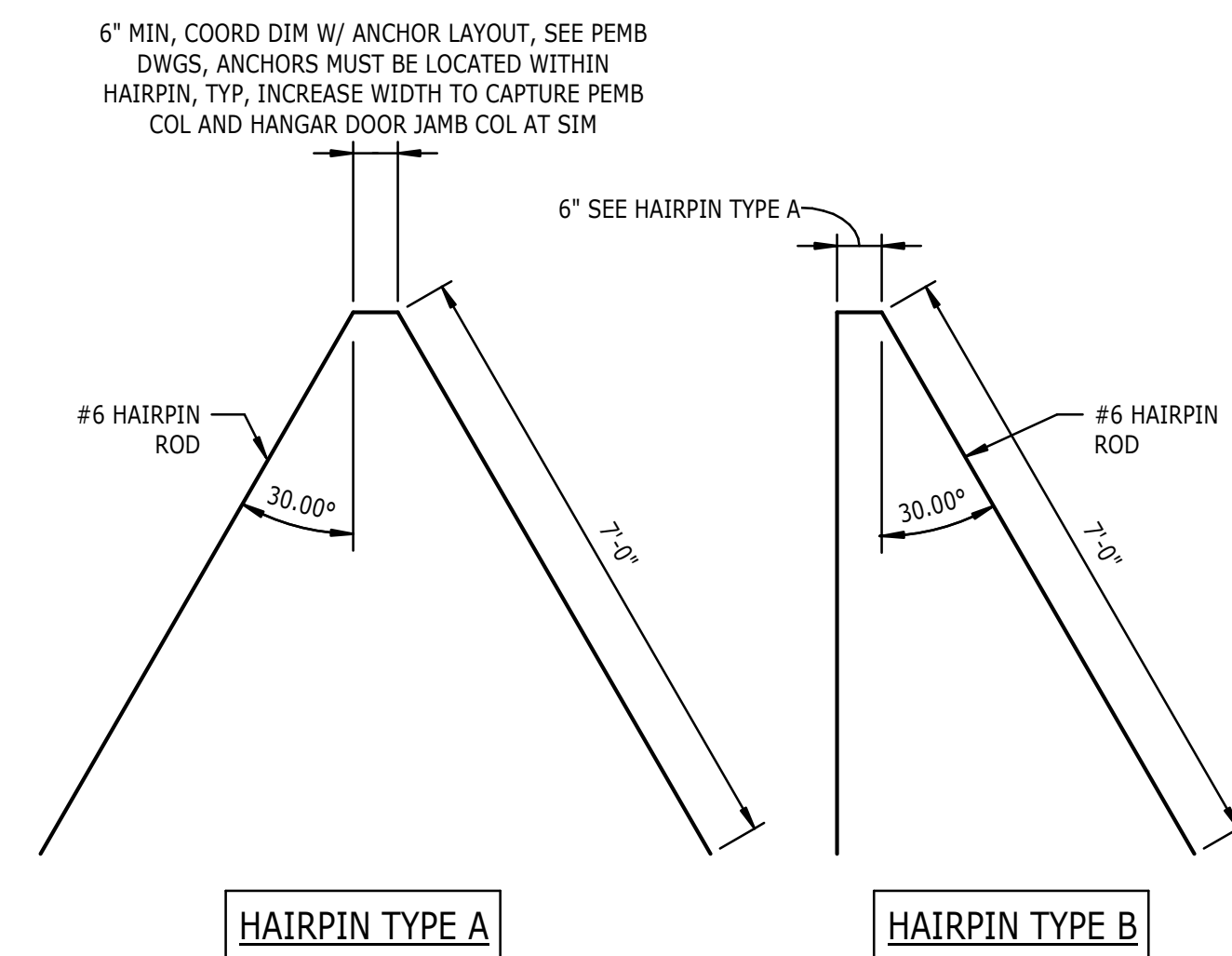
3 CONCRETE REINFORCING SPLICE SCHEDULE
S-301 3/4" = 1'-0"



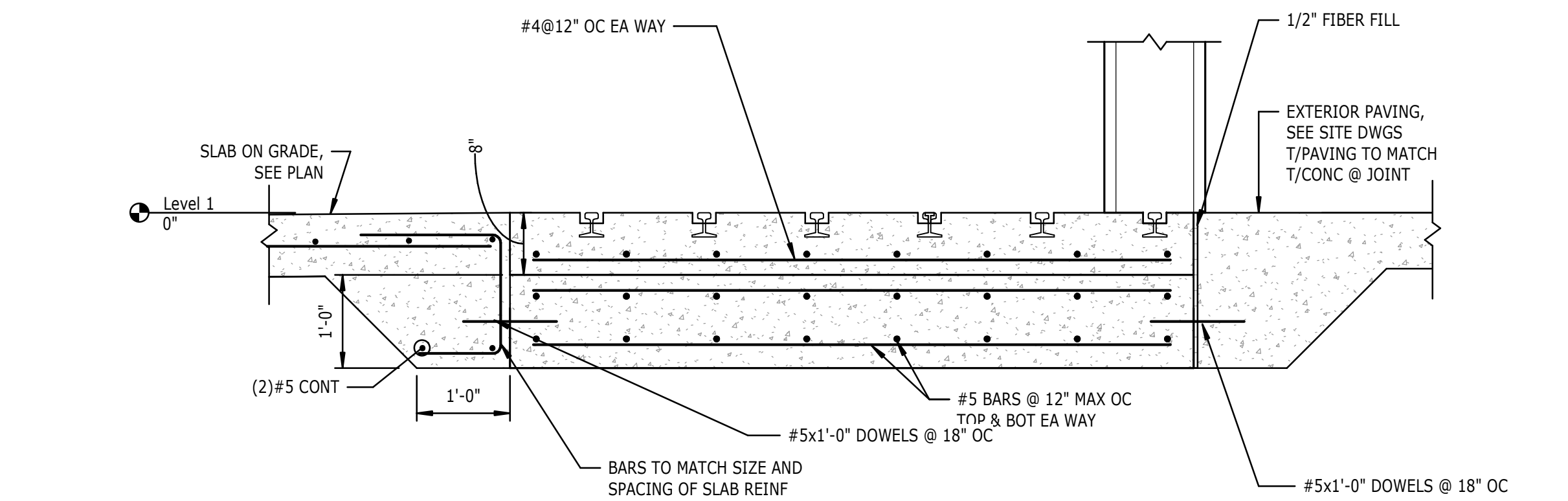
20 SECTION AT EXTERIOR WALL
S-301 3/4" = 1'-0"



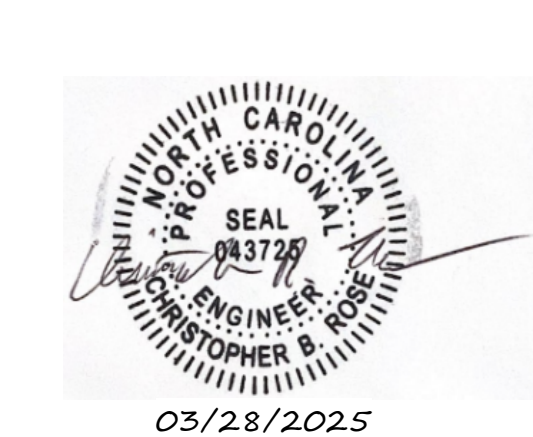
16 SECTION
S-301 SECTION AT EXTERIOR WALL NTS



12 HAIRPIN DETAILS
S-301 NTS



4 SECTION
S-301 3/4" = 1'-0"





CIVIL ENGINEERING
McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

MECHANICAL-ELECTRICAL-PLUMBING
**SABER
ENGINEERING**
10200 Mallard Creek Rd, Suite 105
Charlotte, NC 28262

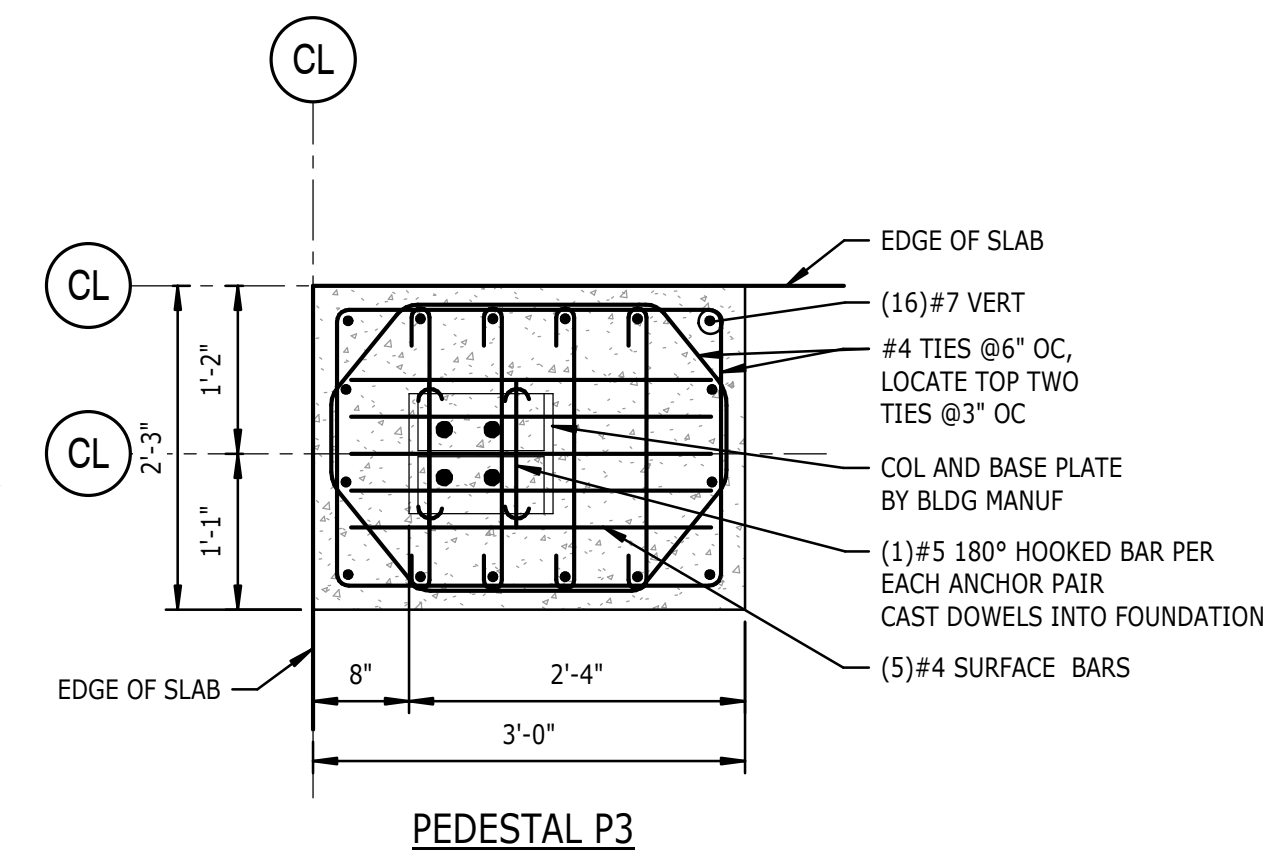
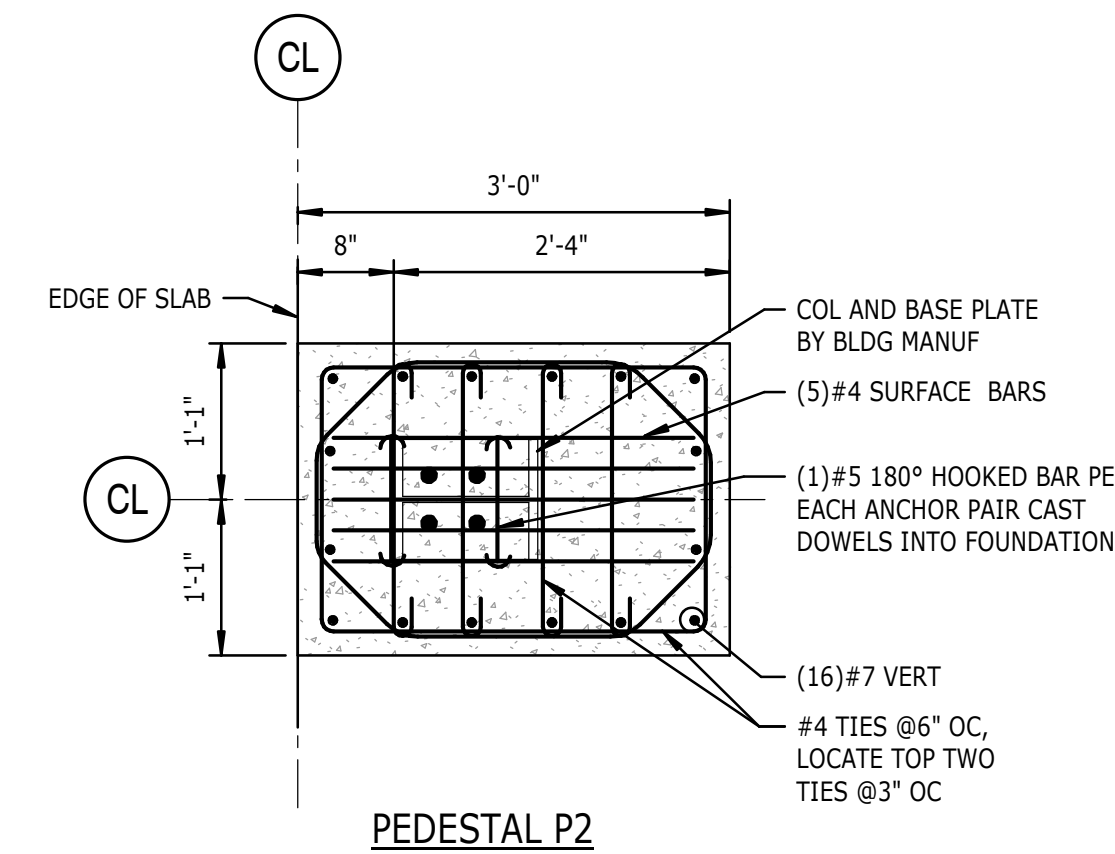
COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

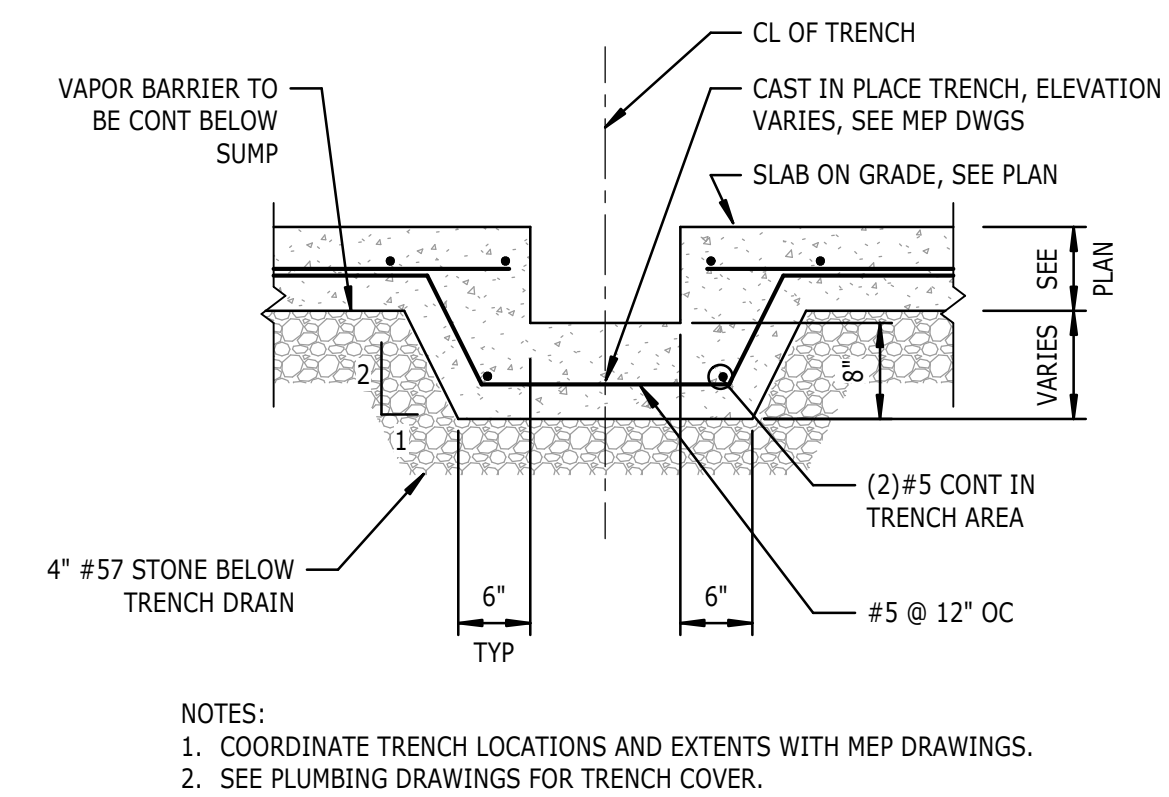
DATE	03/30/2018
PROJECT NUMBER	2418-00
SHEET TITLE	

PEMB SECTIONS AND DETAILS

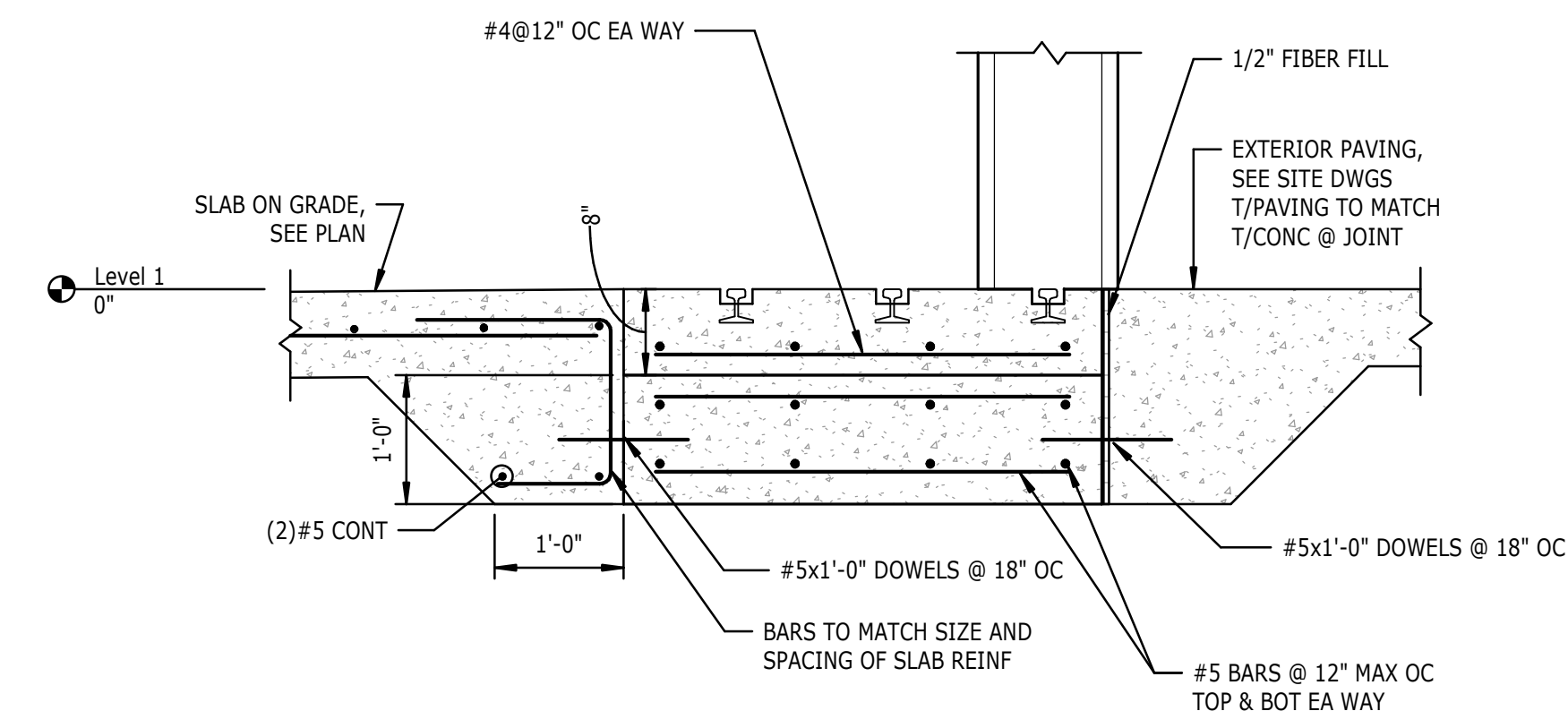
SHEET NUMBER
S-302



1 TYPICAL PEDESTAL PLANS
S-302 3/4" = 1'-0"



3 SECTION AT TRENCH DRAIN
S-302 $3/4" = 1'-0"$



4 SECTION
S-302 $3/4" = 1'-0"$

PARTITION NOTES

1. ALL GYPSUM WALL BOARD TO BE 5/8" TYPE 'X' U.N.O.

2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TO COLUMN CENTER LINE, FACE OF GWB/STUD PARTITIONS, FACE OF MASONRY AND CONCRETE WALLS AND FACE OF EXISTING WALLS.

3. HOLD TOP OF PARTITION DOWN 1/2" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE.

4. ALL CAULK AND SEALANT SHALL BE CONTINUOUS.

5. ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK AND BE ENTIRELY SEALED OFF U.N.O. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF PENETRATION.

6. ALL FIRE AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH SAFING MATERIAL ONLY. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS GYPSUM WALL BOARD OR UL LISTED FIRE PROOFING MATERIAL AND ASSEMBLY.

7. ALL SOUND RATED (STC) WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST.

8. STRUCTURAL STUDS (20 GA. MINIMUM) SHALL BE USED WHERE ANY NON-SELF-SUPPORTING WALL HUNG FIXTURES, EQUIPMENT, OR CABINETS OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS.

9. ALL METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILING. BRACING SHALL BE AS FOLLOWS:
ATTACH A 3/8" OR 6" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 8" MAXIMUM ABOVE FINISHED CEILING. PROVIDE 3/8" OR 6" METAL STUD KICKERS AT 45 DEGREE ANGLE TO STRUCTURE AT 4'-0" O.C.

10. KICKERS SHALL HAVE CLIP ANGLES (14 GA MIN.) WITH TWO 1/4" ANCHORS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING.

11. DO NOT FASTEN TOP RUNNER TO STUDS; CRIMP RUNNER ON BOTH SIDES OF STUD TO STABILIZE STUD.

12. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.

13. WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISHED FACE, AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTION OF SUCH PARTITIONS.
14. WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING.

15. PURSUANT TO NC806 603 ALL WOOD PRODUCTS SHALL BE FIRE RETARDANT TREATED (FRT), INCLUDING BUT NOT LIMITED TO WOOD BLOCKING, CABINETRY AND MILLWORK SUBSTRATES, AND EXPOSED PLYWOOD PANELS.

16. WHERE SPECIALTY WALL PANEL SYSTEMS ARE TO BE APPLIED TO PARTITIONS, SHIMMING MAY BE REQUIRED TO ENSURE A FLUSH AND PLUMB INSTALLATION.

17. ELECTRICAL AND TELECOM ROOMS: IN ADDITION TO GWB AS SCHEDULED, WRAP ENTIRE ROOM IN 3/4" VIRGIN, VOID-FREE, FIRE-RATED PLYWOOD, FROM 0'-0" AFF TO 8'-6" AFF, LAG-BOLTED TO WALLS AT METAL STUD LOCATIONS. PAINT ALL WALL SURFACES AS SCHEDULED.

18. ALL CLOSETS ARE TO RECEIVE WOOD SHELVING AND ROD U.N.O.

19. PROVIDE FR SOLID WOOD BLOCKING IN WALL AS REQUIRED FOR MOUNTING OF CABINETS, GRAB BARS, TVS, TOILET PARTITIONS AND ACCESSORIES, ETC. SEE PLANS AND ELEVATIONS FOR LOCATIONS OF WALL-MOUNTED BUILDING AND EQUIPMENT.

20. USE MOISTURE RESISTANT GWB AT ALL WET AREAS.

21. SEE STRUCTURAL FOR SHEAR WALL LOCATIONS AND INFORMATION. GC TO COORDINATE SHEATHING SIDE AND EXTENTS WITH ARCHITECTURAL AND STRUCTURAL.
- | METAL STUD GAUGES | LOCATION | LENGTH | GAUGE |
|-----------------------------|---------------------|--|-------|
| PARTITION | UP TO 8'-0" | 20 GAUGE | |
| PARTITION | UP TO 10'-0" | 18 GAUGE | |
| PARTITION | UP TO 12'-0" | 16 GAUGE | |
| PARTITION | GREATER THAN 12'-0" | SEE STRUCTURAL DRAWINGS. | |
| BULKHEAD | UP TO 6'-0" | 25 GAUGE | |
| BULKHEAD | UP TO 8'-0" | 20 GAUGE | |
| BULKHEAD | GREATER THAN 8'-0" | SEE SPECIFIC DETAILS AND/OR STRUCT. DRWGS. | |
| SOFFIT | UP TO 4'-0" | 25 GAUGE | |
| SOFFIT | UP TO 8'-0" | 25 GAUGE | |
| SOFFIT | GREATER THAN 8'-0" | SEE SPECIFIC DETAILS FOR SUPPORT SUSPENDED SYSTEM MUST BE USED | |
| DOOR / WINDOW HEAD AND JAMB | U.N.O. | 16 GA (2 STUDS AT ALL LOCATIONS) | |

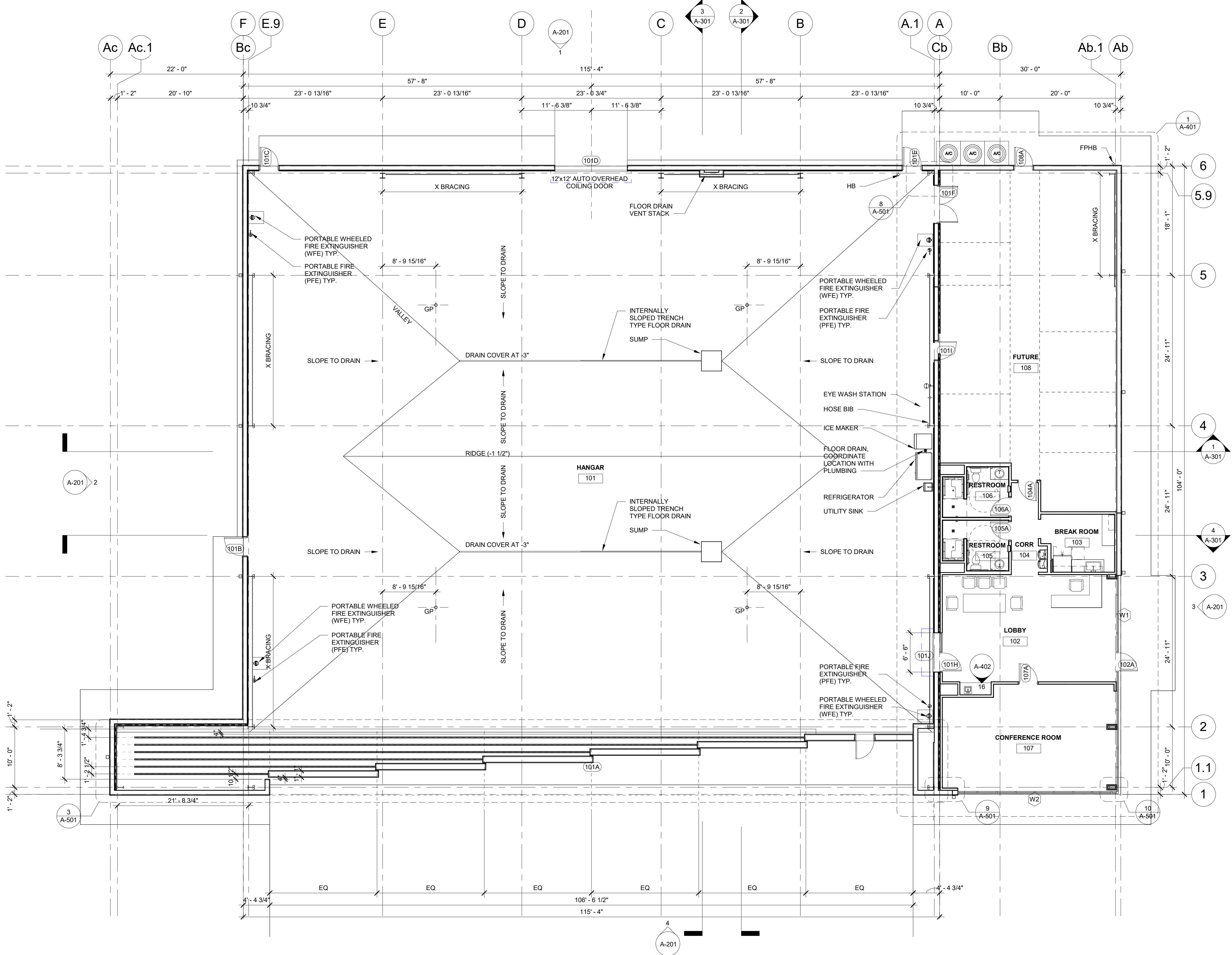
NOTE: U.L. AND STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER THE ABOVE SPECIFICATIONS.

GENERAL NOTES - FLOOR PLAN

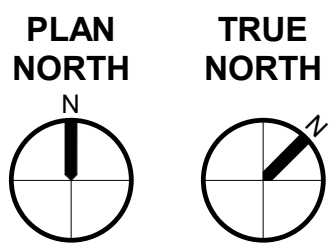
1. UNLESS NOTED OTHERWISE ALL INTERIOR DIMENSIONS ARE TO COLUMN CENTER LINE OR FACE OF GWB/STUD PARTITIONS.
2. SEE ENLARGED PLANS FOR PARTITION TAGS NOT IDENTIFIED ON THIS SHEET.
3. SEE SHEET xxxx FOR PARTITION TYPES AND ASSOCIATED PARTITION ITEMS.
4. EDGE OF SLAB AT BUILDING PERIMETER TO ALIGN WITH OUTSIDE FACE OF STUD/ CMU U.N.O.
5. SEE STRUCTURAL DRAWINGS FOR ALL E.O.S. DETAILS AND CONDITIONS.
6. PROVIDE FR BLOCKING AS REQUIRED AT LOCATIONS WITH WALL-MOUNTED EQUIPMENT. (TVs, MONITORS, CASEWORK, ETC.)

FLOOR PLAN LEGEND

- NON RATED WALL- SEE PARTITION TYPES
- 1 HOUR RATED WALL- SEE PARTITION TYPES
- 2 HOUR RATED WALL- SEE PARTITION TYPES
- THICKENED SLAB (SEE STRUCTURAL)
- SIDEWALK (SEE STRUCTURAL)

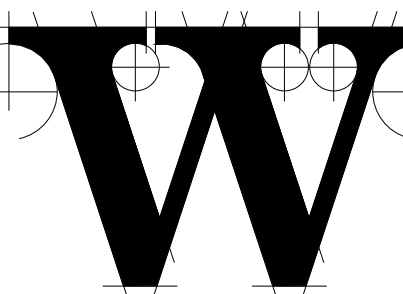
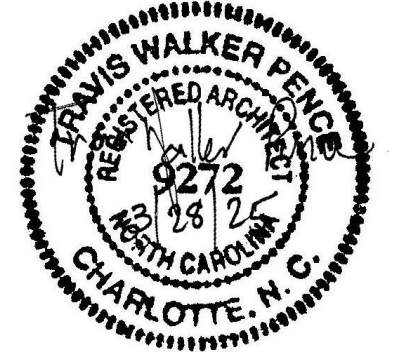


1 FLOOR PLAN
1/8" = 1'-0"



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27528

STRUCTURAL ENGINEER

STEWART
ENGINEERING

101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING

10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

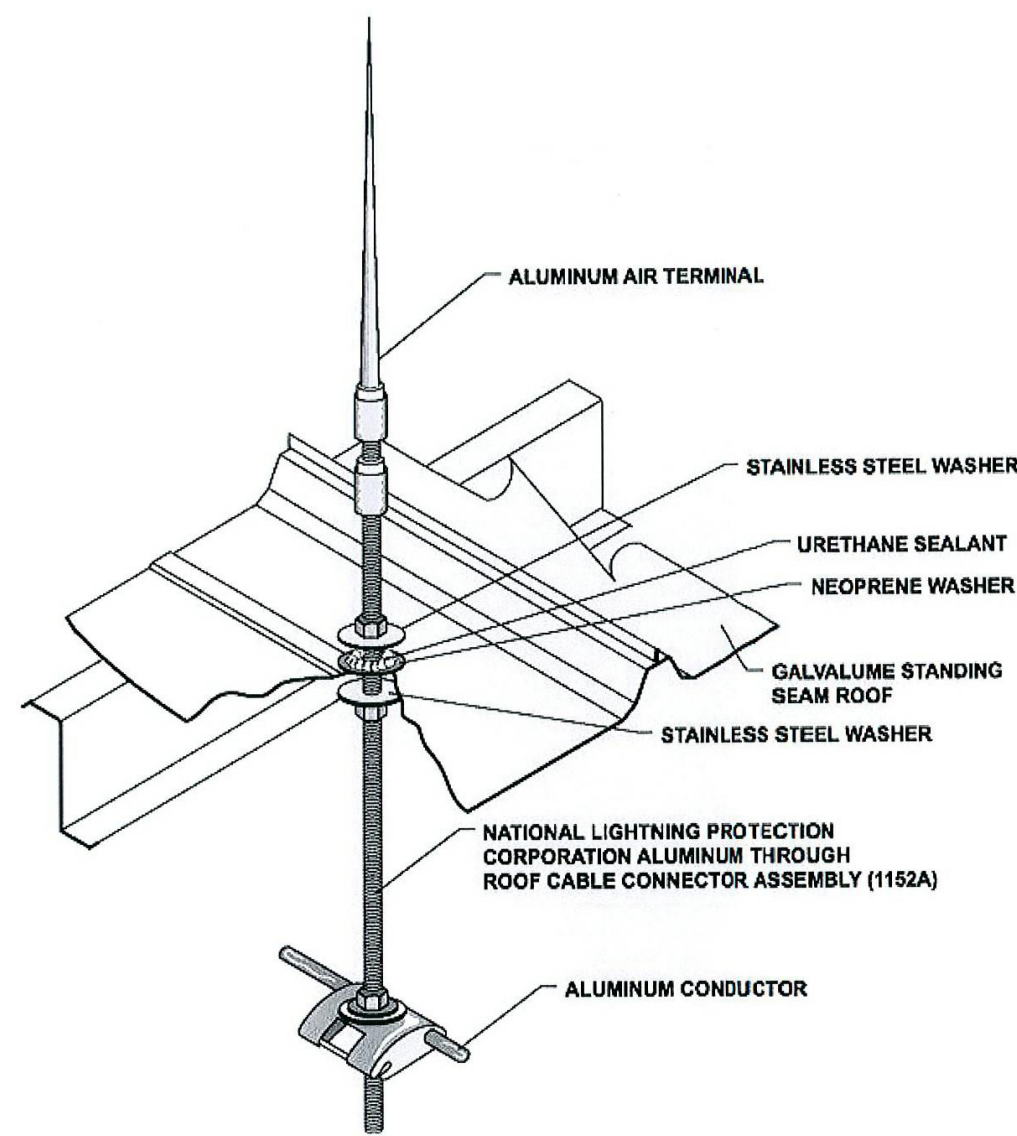
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

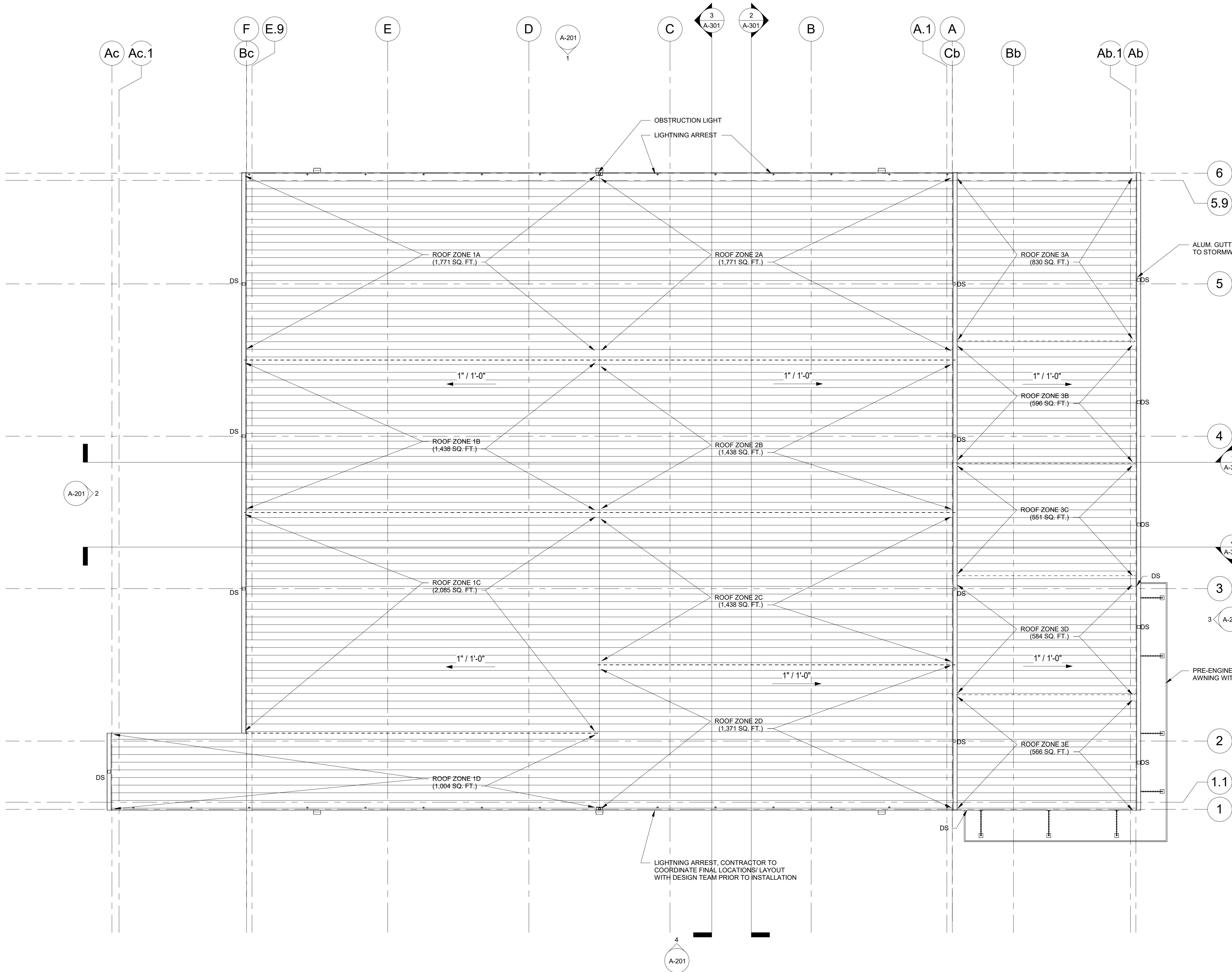
FIRST FLOOR
PLAN

SHEET NUMBER

A-101



2 LIGHTNING ARREST
1" = 1'-0"



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

GENERAL NOTES - ROOF PLAN

1. ROOF INSULATION SHALL MEET THE REQUIREMENTS OF SECTION 1508.1 OF THE NCSCB (2012).
2. ROOFTOP EQUIPMENT IS SHOWN FOR INTENT ONLY. SEE MECHANICAL DRAWINGS FOR SIZE, TYPE AND LOCATIONS.
3. CONTRACTOR TO PROVIDE SOUND/ VIBRATION ISOLATION BASE FOR ALL ROOFTOP EQUIPMENT.
4. SEE DETAIL 2/A-102 FOR LIGHTNING ARREST MOUNTING DETAILS
5. ALL ROOF PENETRATIONS TO MATCH COLOR OF ROOF PANELS

ROOF DRAINAGE CALCULATIONS

DRAINAGE AREA	GUTTER SIZE		DOWNSPOUT SIZE	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED
(1A) (2A) 1,771 SQ. F.T.	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	2.75"x4.75"	6"x6"
(1B) (2B) 1,438 SQ. F.T.	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	2.75"x4.75"	6"x6"
(2C)				
(1C) 2,085 SQ. F.T.	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	2.75"x4.75"	6"x6"
(1D) 1,004 SQ. F.T.	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	2.75"x4.75"	6"x6"
(2D) 1,371 SQ. F.T.	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	2.75"x4.75"	6"x6"
(3A) 830 SQ. F.T. (+2A ABOVE)	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	3.75"x5.0"	6"x6"
(3B) 596 SQ. F.T. (+2B ABOVE)	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	3.75"x5.0"	6"x6"
(3C) 551 SQ. F.T. (+2C ABOVE)	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	3.75"x5.0"	6"x6"
(3D) 584 SQ. F.T. (+2D ABOVE)	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	3.75"x5.0"	6"x6"
(3E) 566 SQ. F.T. (+2E ABOVE)	7"Wx5.5"D (20'-0")	8"Wx8"D (20'-0")	3.75"x5.0"	6"x6"

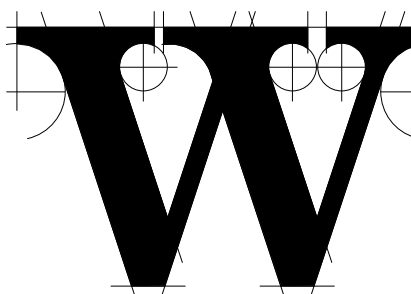
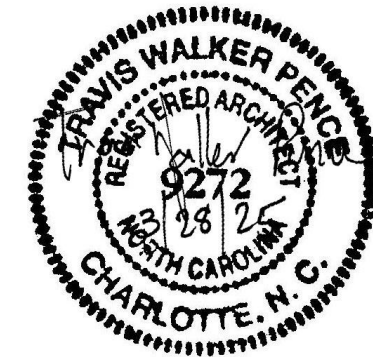
1. PRIMARY ROOF DRAIN 4"HR PER P1106.1
2. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

DSP- ALUM DOWNSPOUT



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.

P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.

P.O. Box 49, 3714 North Main St
Farmville, NC 27528

STRUCTURAL ENGINEER

STEWART
ENGINEERING

101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING

10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

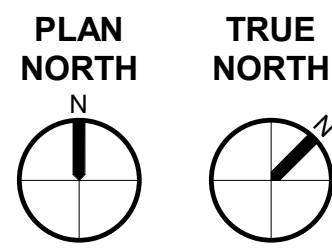
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

ROOF PLAN

SHEET NUMBER

A-102

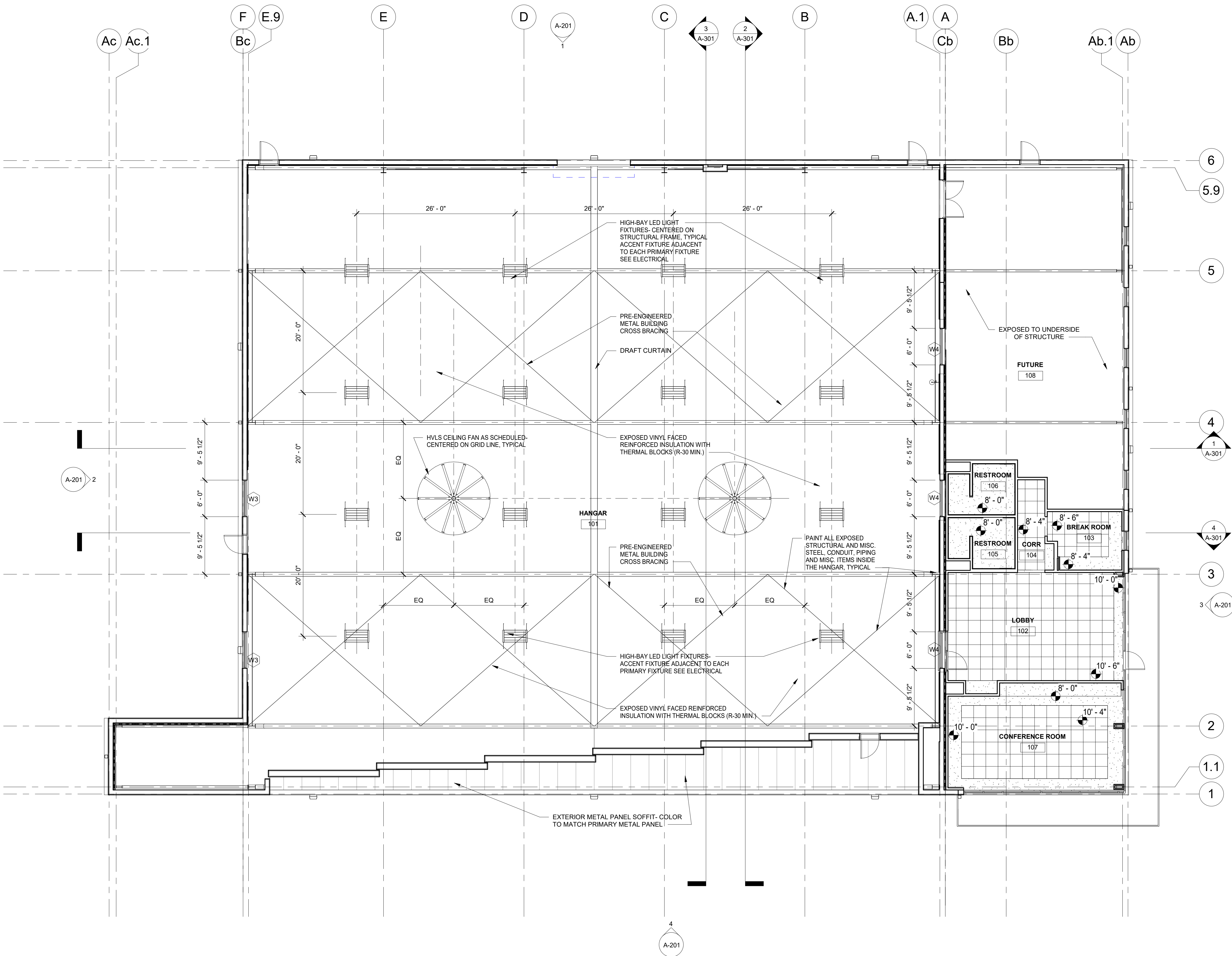


GENERAL NOTES - CEILING

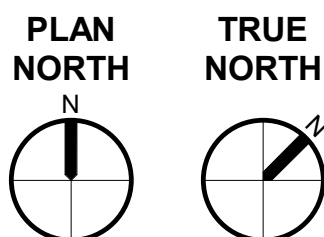
1. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND OTHER MECHANICAL CEILING DEVICES.
2. SEE ELECTRICAL DRAWINGS FOR LIGHTING LOCATIONS AND OTHER ELECTRICAL CEILING DEVICES.
3. ALL CEILING HEIGHTS ARE AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE.
4. ALL CEILING DEVICES, INCLUDING DOWNLIGHTS, HVAC GRILLES SMALLER THAN 2x2 FEET, ARE TO BE CENTERED IN CEILING TILE UNLESS NOTED OTHERWISE. CONTRACTOR TO REVIEW ALL CONFLICTS WITH ARCHITECT PRIOR TO INSTALLATION.
5. CENTER EXIT SIGNS OVER DOORS UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL COORDINATE WITH ALL TRADES INVOLVED, INCLUDING PREPARATION OF COORDINATION DRAWINGS, TO ENSURE CLEARANCES FOR FIXTURES, DUCTWORK, CEILINGS, ETC. AS NECESSARY TO MAINTAIN THE INDICATED FINISHED CEILING / FIXTURE MOUNTING HEIGHT.
7. DIMENSIONS ARE TO CENTER LINE OF FIXTURES U.N.O.
8. PERIMETER CEILING GRID ANGLE, WHERE IT OCCURS, SHALL BE TIGHT TO FINISHED FACE OF PARTITION SURFACES, FREE FROM CURVES, GAPS, BREAKS, AND OTHER IRREGULARITIES.
9. SUSPENDED CEILING PANEL SIZE, NO SMALLER THAN 4 INCHES. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS PRIOR TO INSTALLATION.
10. CENTER CEILING SYSTEMS IN ROOMS BOTH DIRECTIONS UNLESS OTHERWISE NOTED.

CEILING PLAN LEGEND

- LIGHT FIXTURE
- HIGH-BAY LED LIGHT FIXTURE
- EXHAUST/SUPPLY FAN
- WALL-MOUNTED LIGHT
- GYPSUM WALL BOARD CEILING- SEE FINISH SCHEDULE
- GAS-FIRED INFRARED HEATER
- HVLS CEILING FAN
- APC CEILING - SEE FINISH SCHEDULE
- STRIP DOWNLIGHT- 48"

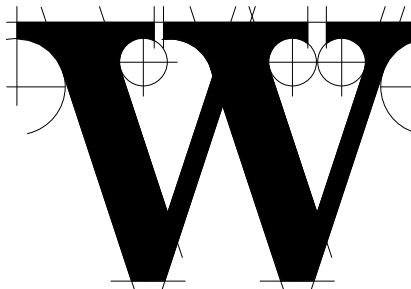


1 CEILING PLAN
1/8" = 1'-0"



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER

STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

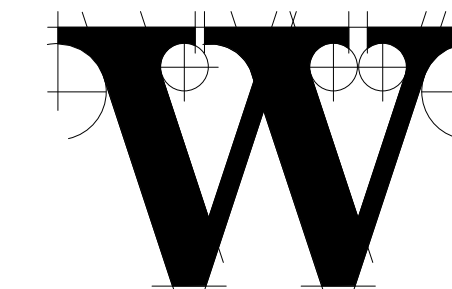
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

FIRST FLOOR
CEILING PLAN

SHEET NUMBER

A-111



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER

STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

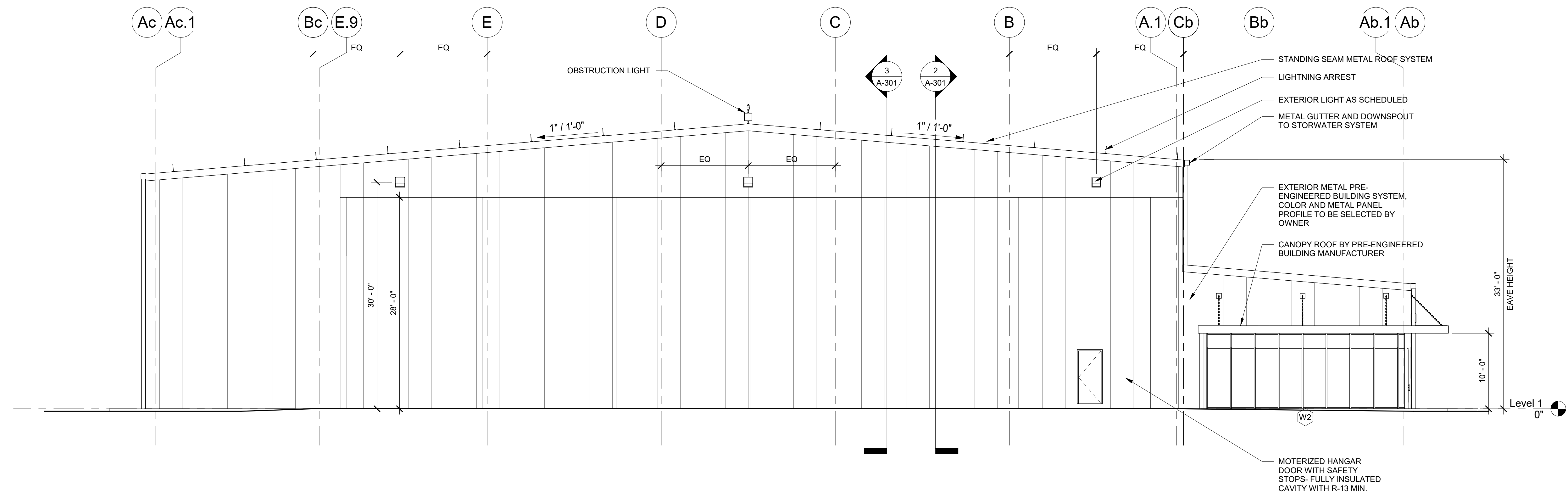
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

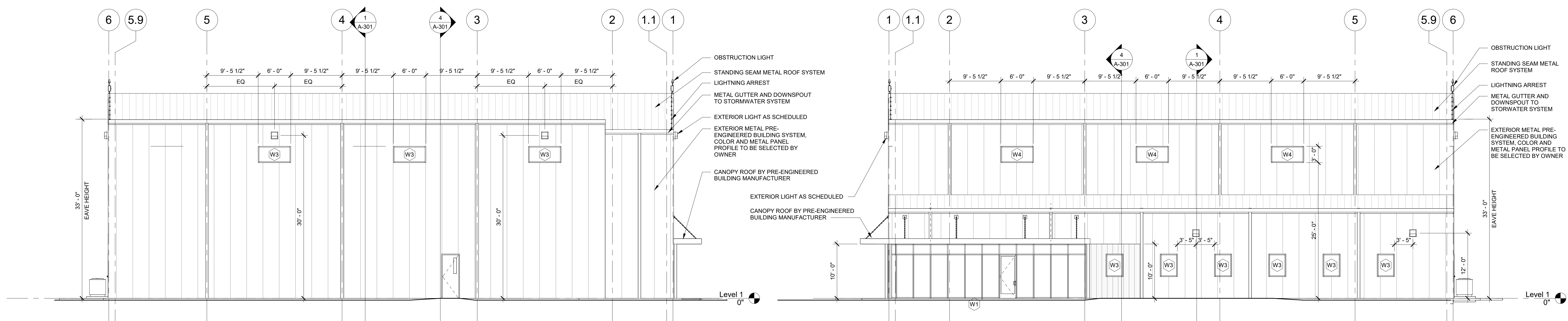
BUILDING
ELEVATIONS

SHEET NUMBER

A-201

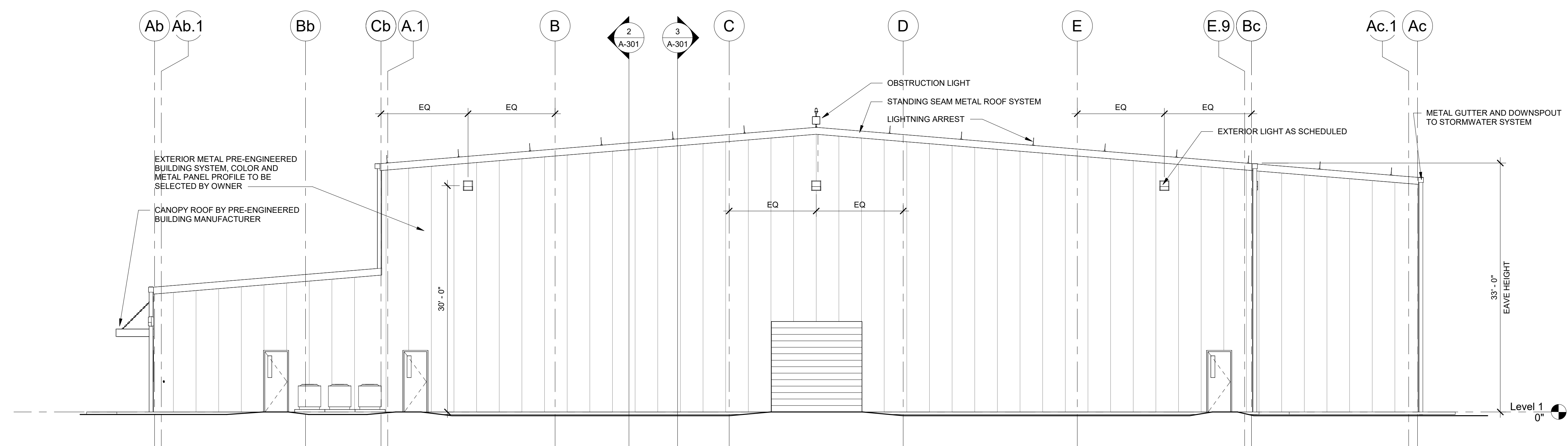


4 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"

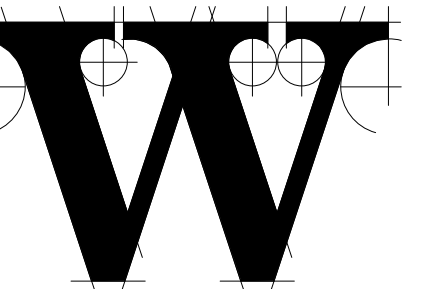


2 BUILDING ELEVATION - WEST
1/8" = 1'-0"

3 BUILDING ELEVATION - EAST
1/8" = 1'-0"



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



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
**Daniels and Daniels
Construction Co., Inc.**
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
**McDAVID
ASSOCIATES, P.E.**
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER
**STEWART
ENGINEERING**
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
**SABER
ENGINEERING**
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

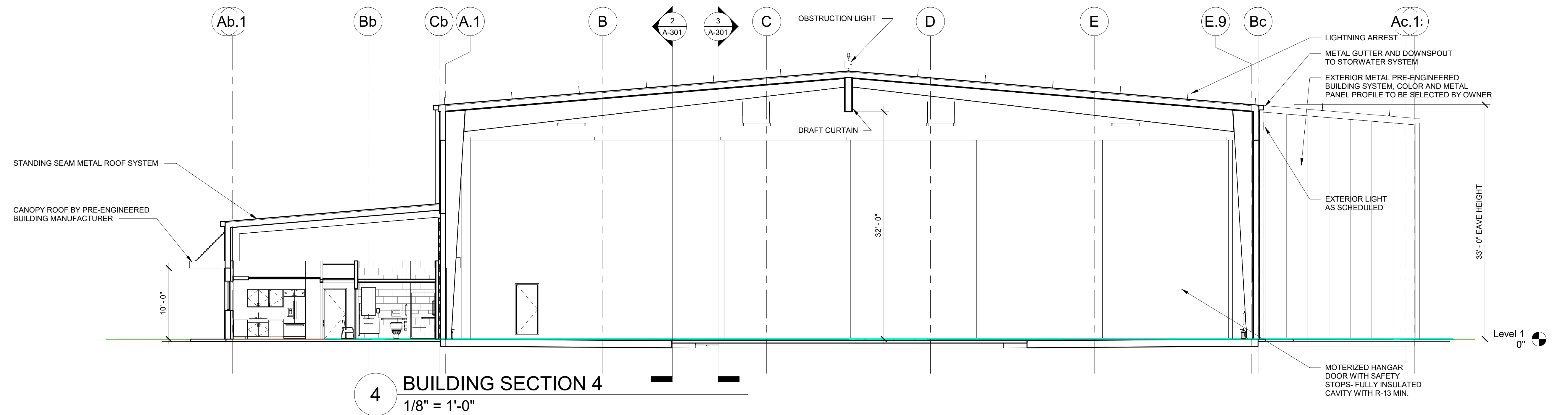
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

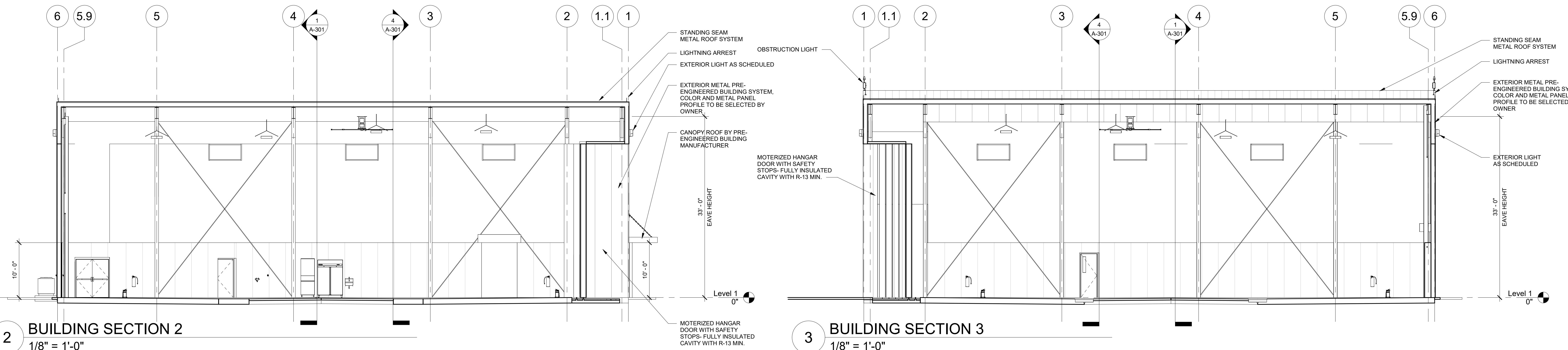
**BUILDING
SECTIONS**

SHEET NUMBER

A-301

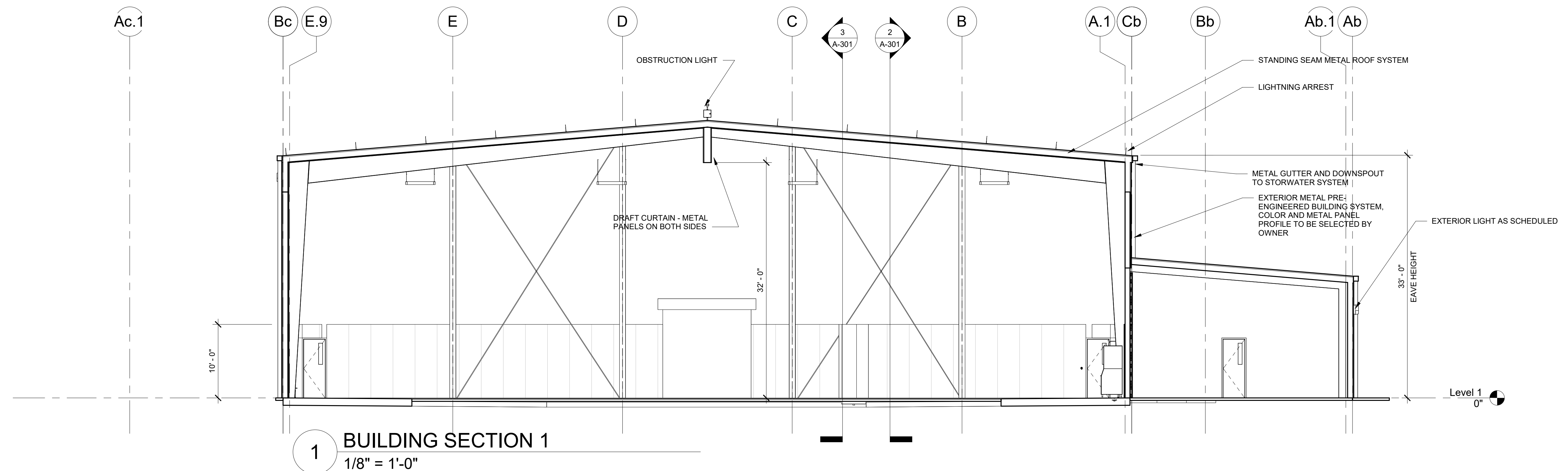


4 BUILDING SECTION 4
1/8" = 1'-0"

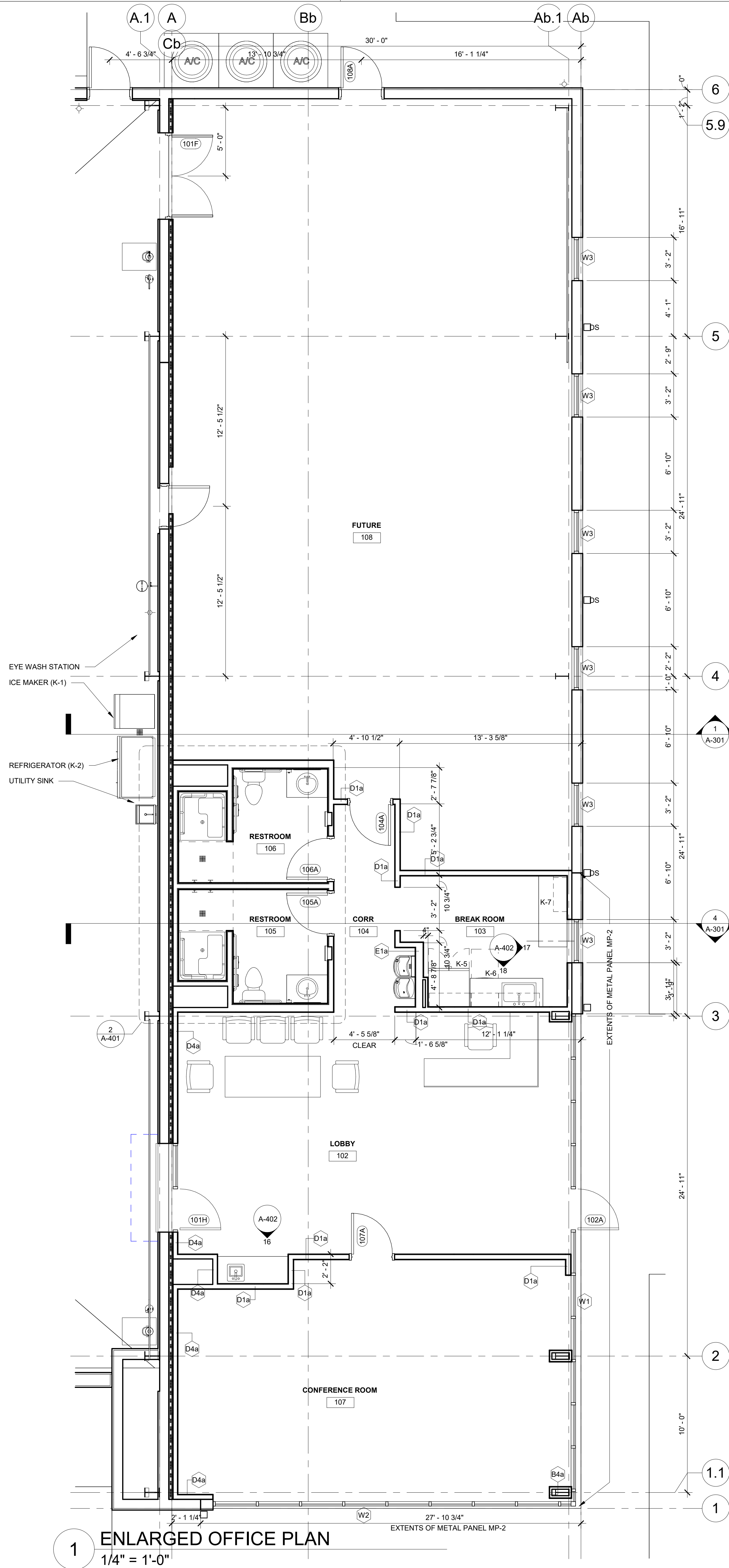


2 BUILDING SECTION 2
1/8" = 1'-0"

3 BUILDING SECTION 3
1/8" = 1'-0"



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



PARTITION NOTES

- ALL GYPSUM WALL BOARD TO BE 5/8" TYPE 'X' U.N.O.
- UNLESS NOTED OTHERWISE, DIMENSIONS ARE TO COLUMN CENTER LINE, FACE OF GWB/STUD PARTITIONS, FACE OF MASONRY AND CONCRETE WALLS AND FACE OF EXISTING WALLS.
- HOLD TOP OF PARTITION DOWN 1/2" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE.
- ALL CAULK AND SEALANT SHALL BE CONTINUOUS.
- ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF U.N.O. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF PENETRATION.
- ALL FIRE AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH SAFING MATERIAL ONLY. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS GYPSUM WALL BOARD OR UL LISTED FIRE PROOFING MATERIAL AND ASSEMBLY.
- ALL SOUND RATED (STC) WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST.
- STRUCTURAL STUDS (20 GA. MINIMUM) SHALL BE USED WHERE ANY NON-SELF-SUPPORTING WALL HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS.
- ALL METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. BRACING SHALL BE AS FOLLOWS:
ATTACH A 3/8" OR 6" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 6" MAXIMUM ABOVE FINISHED CEILING. PROVIDE 3/8" OR 6" METAL STUD KICKERS AT 45 DEGREE ANGLE TO STRUCTURE AT 4'-0" O.C.
- KICKERS SHALL HAVE CLIP ANGLES (14 GA MIN.) WITH TWO 1/4" ANCHORS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING.
- DO NOT FASTEN TOP RUNNER TO STUDS; CRIMP RUNNER ON BOTH SIDES OF STUD TO STABILIZE STUD.
- SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.
- WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISHED FACE, AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTION OF SUCH PARTITIONS.

METAL STUD GAUGES	LOCATION	LENGTH	GAUGE
PARTITION	UP TO 8'-0"	UP TO 8'-0"	20 GAUGE
PARTITION	UP TO 10'-0"	UP TO 10'-0"	18 GAUGE
PARTITION	UP TO 12'-0"	UP TO 12'-0"	16 GAUGE
BULKHEAD	UP TO 6'-0"	UP TO 6'-0"	25 GAUGE
BULKHEAD	UP TO 8'-0"	UP TO 8'-0"	20 GAUGE
BULKHEAD	UP TO 4'-0"	UP TO 4'-0"	25 GAUGE
SOFFIT	UP TO 8'-0"	UP TO 8'-0"	25 GAUGE
SOFFIT	UP TO 8'-0"	UP TO 8'-0"	25 GAUGE
DOOR / WINDOW HEAD AND JAMB	U.N.O.	16 GA (2 STUDS AT ALL LOCATIONS)	

NOTE: U.L. AND STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER THE ABOVE SPECIFICATIONS.

GENERAL NOTES - FLOOR PLAN

- UNLESS NOTED OTHERWISE ALL INTERIOR DIMENSIONS ARE TO COLUMN CENTER LINE OR FACE OF GWB/STUD PARTITIONS.
- SEE ENLARGED PLANS FOR PARTITION TAGS NOT IDENTIFIED ON THIS SHEET.
- SEE SHEET xxxx FOR PARTITION TYPES AND ASSOCIATED PARTITION ITEMS.
- EDGE OF SLAB AT BUILDING PERIMETER TO ALIGN WITH OUTSIDE FACE OF STUD/ CMU U.N.O.
- SEE STRUCTURAL DRAWINGS FOR ALL E.O.S. DETAILS AND CONDITIONS.
- PROVIDE FR BLOCKING AS REQUIRED AT LOCATIONS WITH WALL-MOUNTED EQUIPMENT. (TVs, MONITORS, CASEWORK, ETC.)

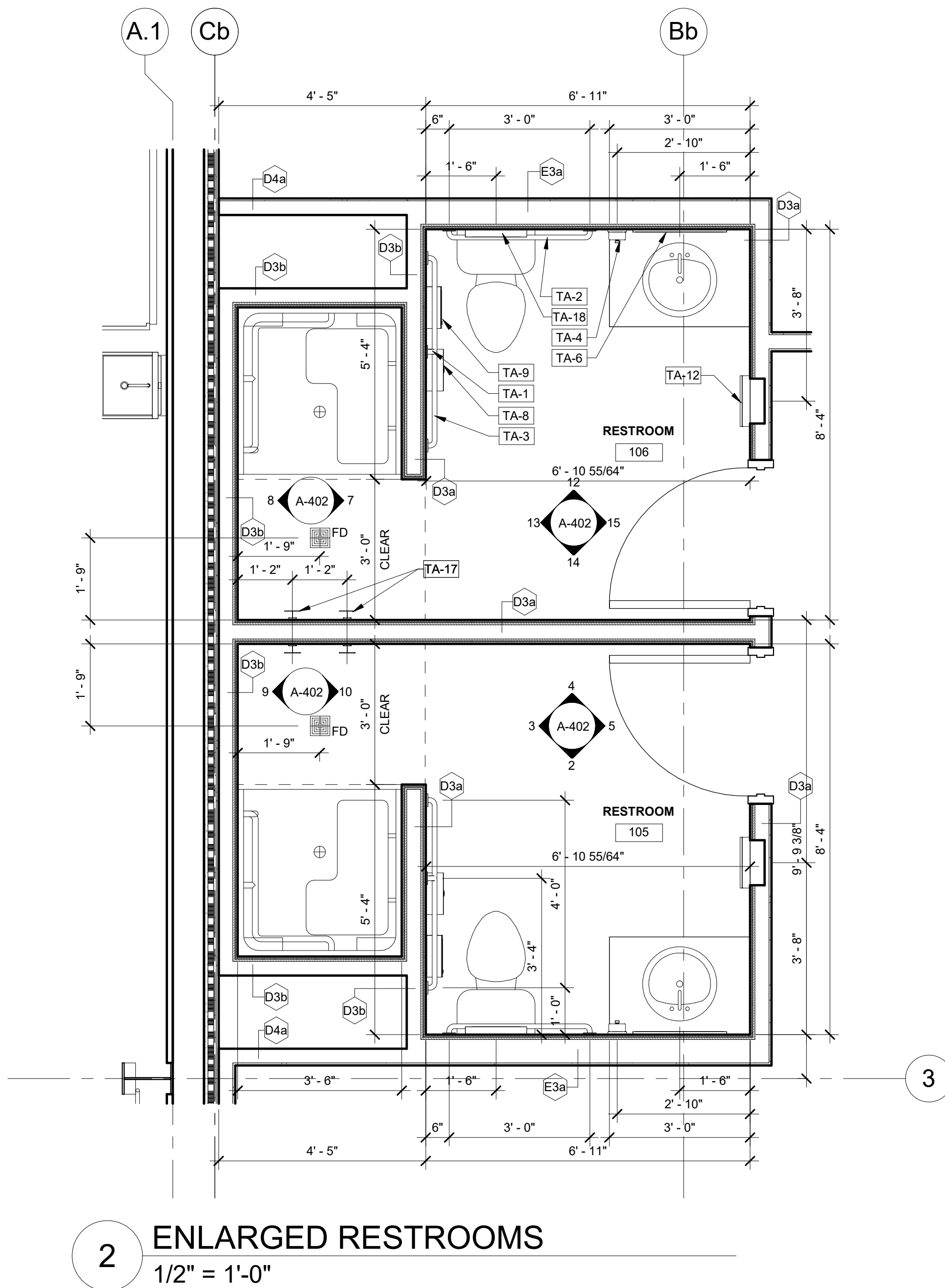
TOILET ACCESSORY LEGEND AND NOTES

SYMBOL	DESCRIPTION	MODEL
TA-1	18" GRAB BAR	BOBRICK B-5806.99X18
TA-2	36" GRAB BAR	BOBRICK B-5806.99X36
TA-3	42" GRAB BAR	BOBRICK B-5806.99X42
TA-4	SURFACE-MOUNTED HAND SOAP DISPENSER	BOBRICK B-2111
TA-6	24" X 48" SIDE EDGE LIGHTED MIRROR- SEE ELECTRICAL	MATRIX MIRRORS- L4 (2700K)
TA-8	SURFACE-MOUNTED TOILET TISSUE DISPENSER	BOBRICK B-2890
TA-9	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK B-254
TA-12	SEMI RECESSED PAPER TOWEL DISPENSER/ DISPOSAL	BOBRICK B-38032
TA-14	SHOWER CURTAIN AND ROD	BOBRICK B-204
TA-15	PREFABRICATED ADA SHOWER WITH GRAB BARS, FOLDING SEAT AND ACCESSIBLE CONTROLS	COMFORT DESIGN SSS 3637BF 3P RRF
TA-17	DOUBLE ROBE HOOK	BOBRICK B-672
TA-21	MOP/ BROOM HOLDER	BOBRICK B-223

1. ALL MODELS ARE BASIS OF DESIGN
2. ALL WALLS PARTITIONS WITHIN 2'-0" FROM SINKS, URINALS AND WATER CLOSETS SHALL MEET THE REQUIREMENTS OF NCSEC SECTION 1210.2

APPLIANCE LEGEND

SYMBOL	DESCRIPTION	BASIS OF DESIGN
K-1	ICE MAKER	SCOTSMAN C0530SA-1D PRODIGY- STAINLESS STEEL
K-2	REFRIGERATOR/ FREEZER	TURBO AIR M3RF45-2-N 50"
K-5	REFRIGERATOR/ FREEZER	SAMSUNG 4 DOOR RF28R7201SF/AA- STAINLESS STEEL
K-6	DISHWASHER	SAMSUNG 24" DW80R2031US- STAINLESS STEEL
K-7	COUNTERTOP MICROWAVE	SAMSUNG 1000W MG11H2020CT- STAINLESS STEEL
K-8	TELEVISION DISPLAYS	LG 60" LED 2160P SMART 4K UHD W/ HDR 60UM6900PUA- BLACK



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349

CERT. NO. 51140
NORTH CAROLINA
CHARLOTTE, N.C.

THE WILSON GROUP

- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
Daniels and Daniels Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
McDAVID ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27528

STRUCTURAL ENGINEER
STEWART ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
SABER ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM THE WILSON GROUP ARCHITECTS

REVISIONS

NO.	DESCRIPTION
-----	-------------

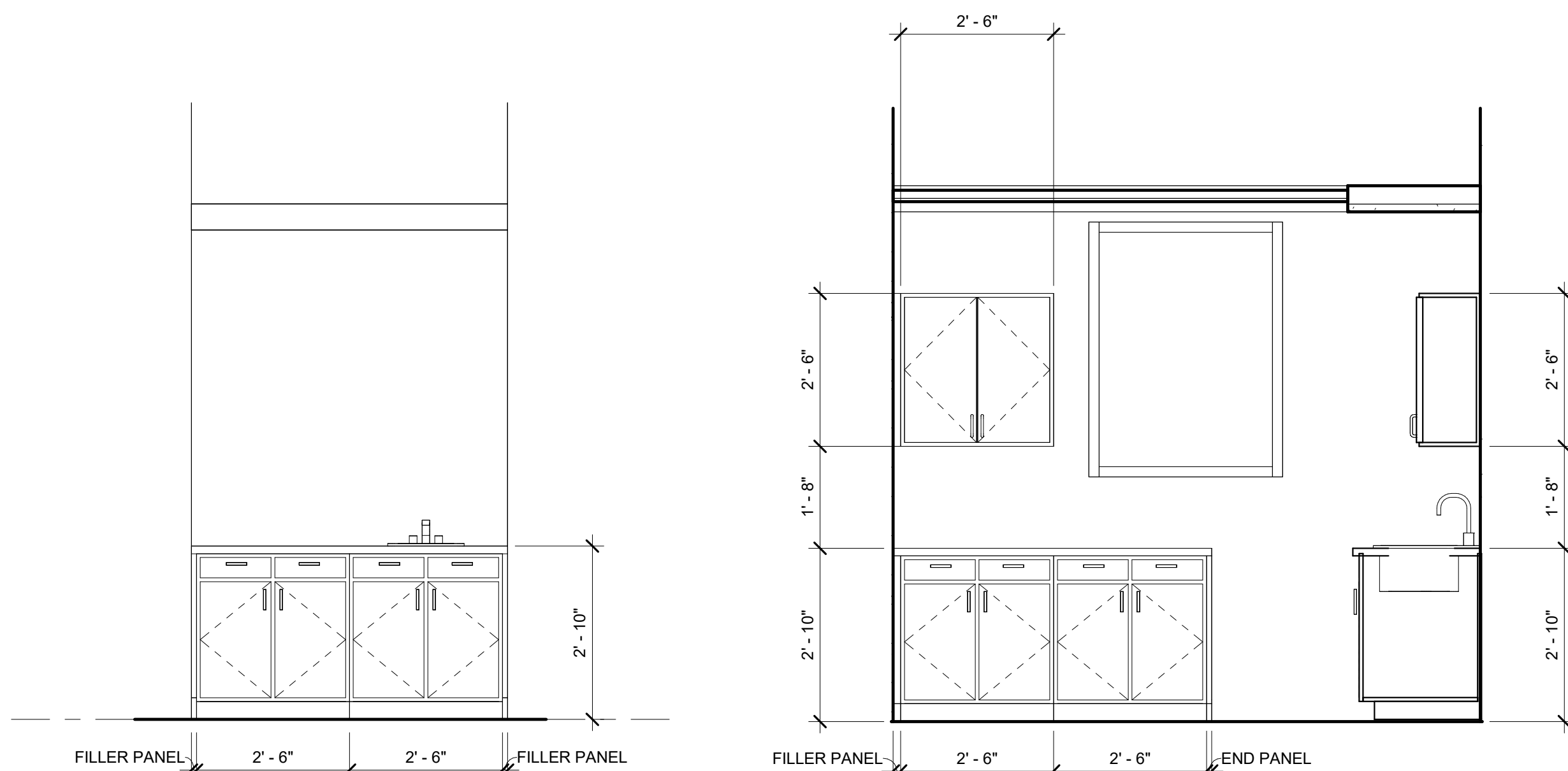
DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

ENLARGED PLANS

PLAN NORTH
TRUE NORTH

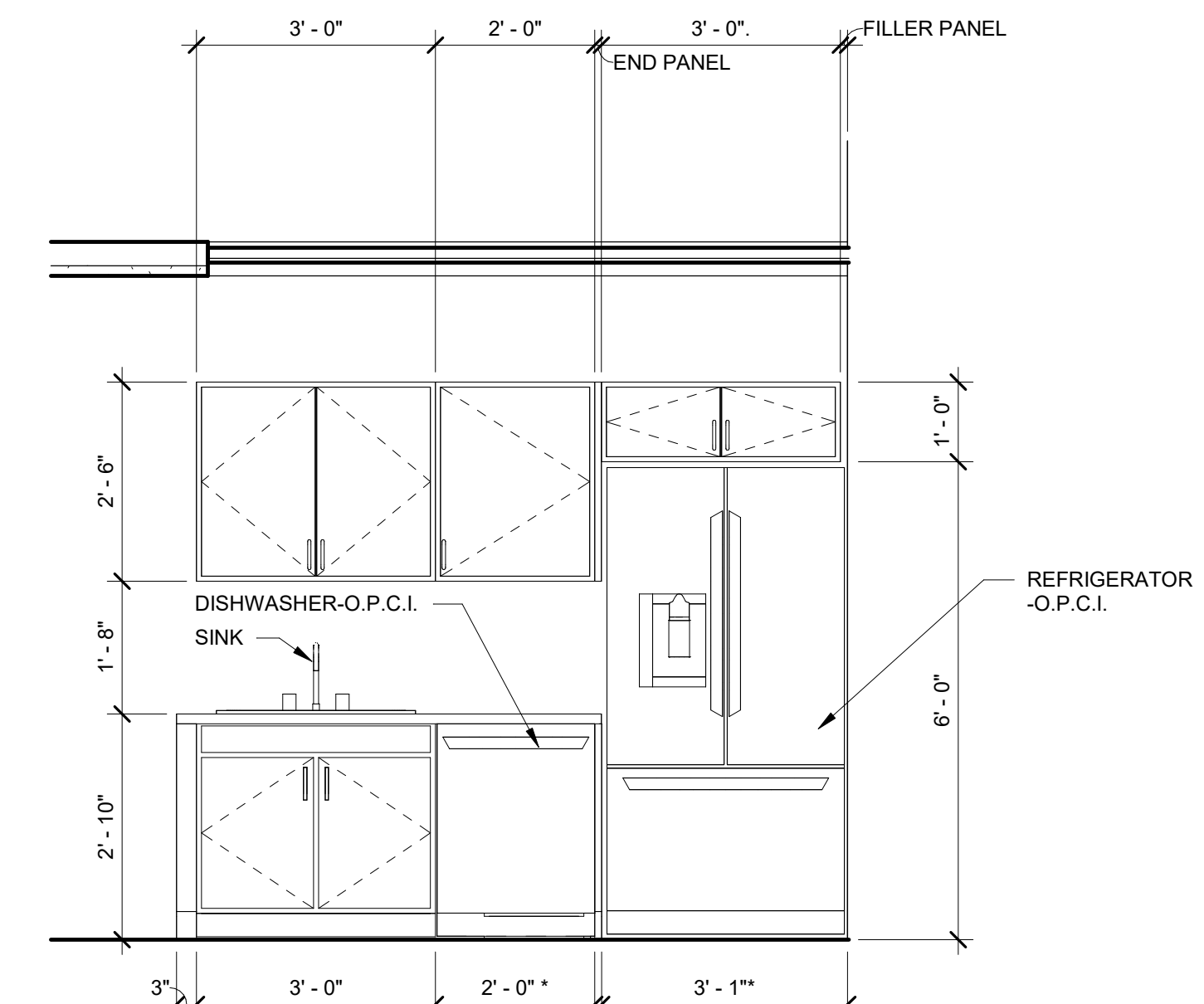
SHEET NUMBER

A-401

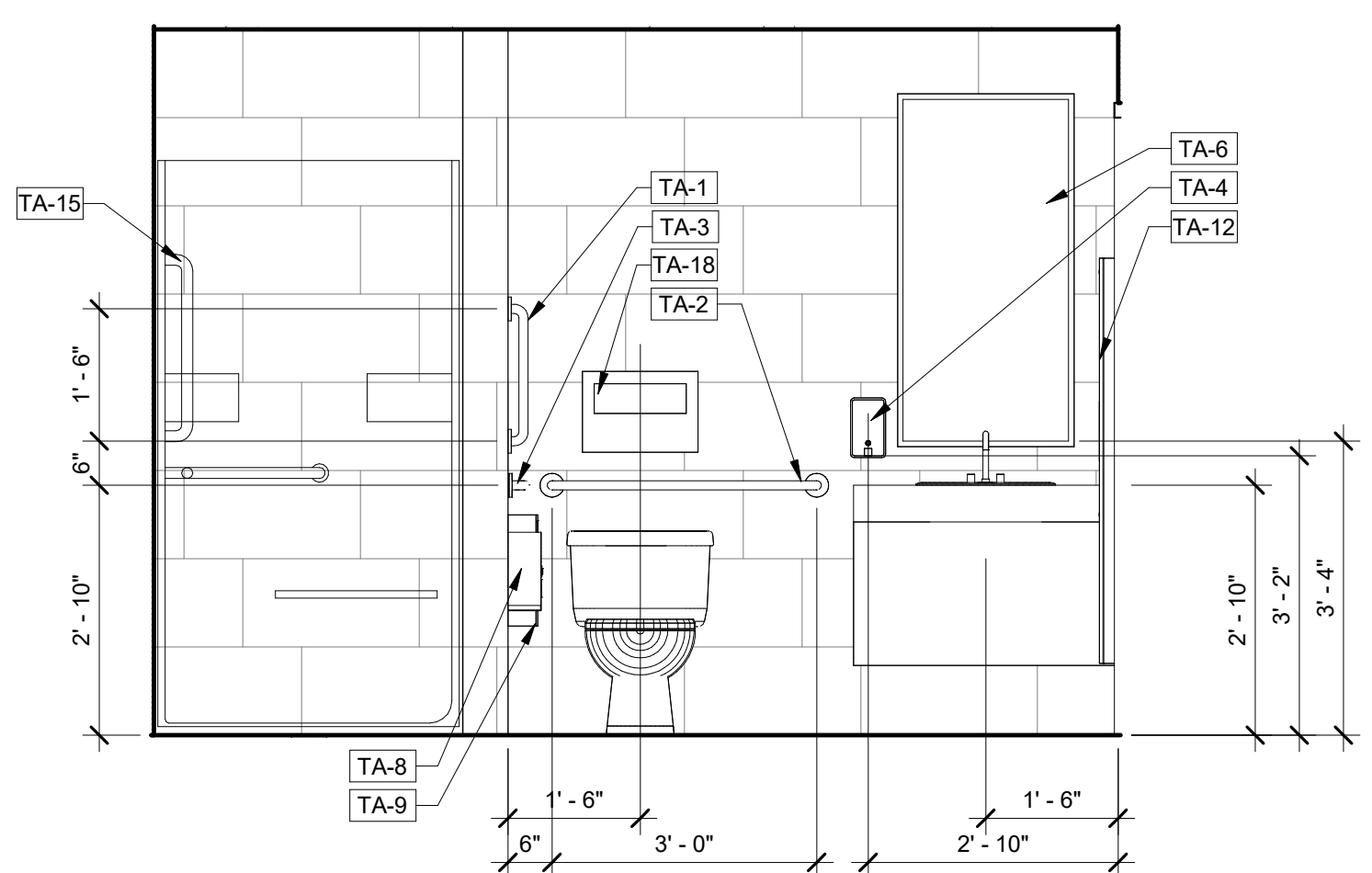


16 ROOM 102
1/2" = 1'-0"

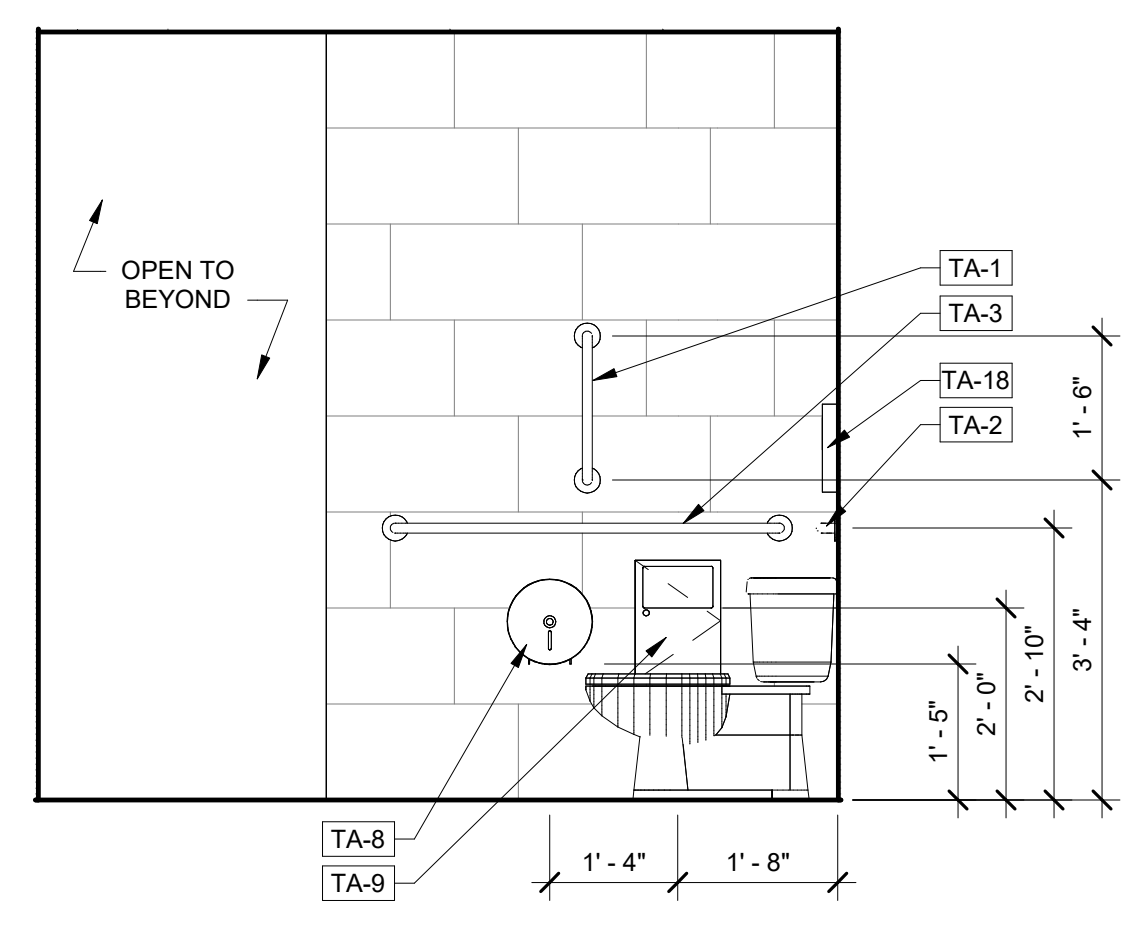
17 ROOM 103 - EAST
1/2" = 1'-0"



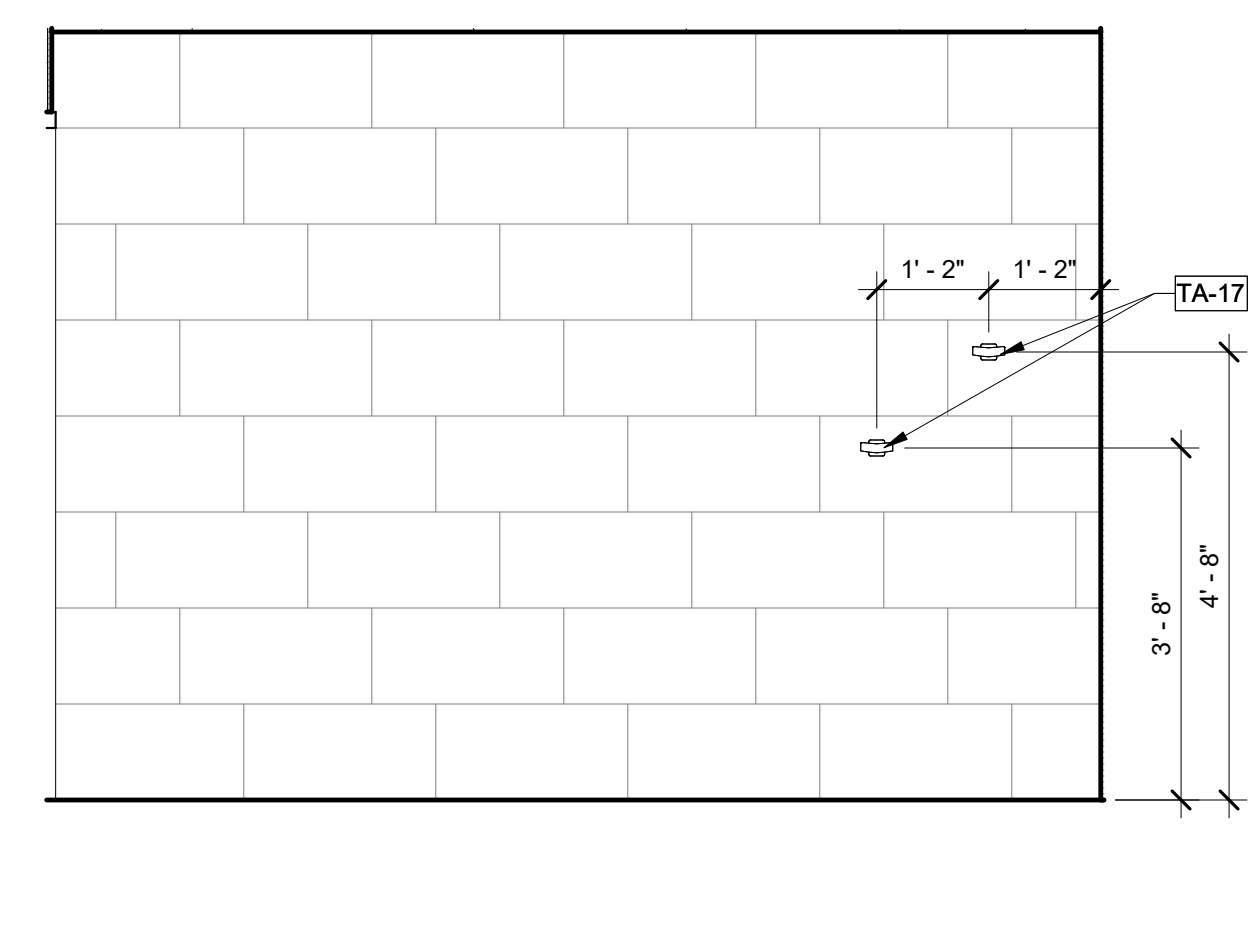
18 ROOM 103 - SOUTH
1/2" = 1'-0"



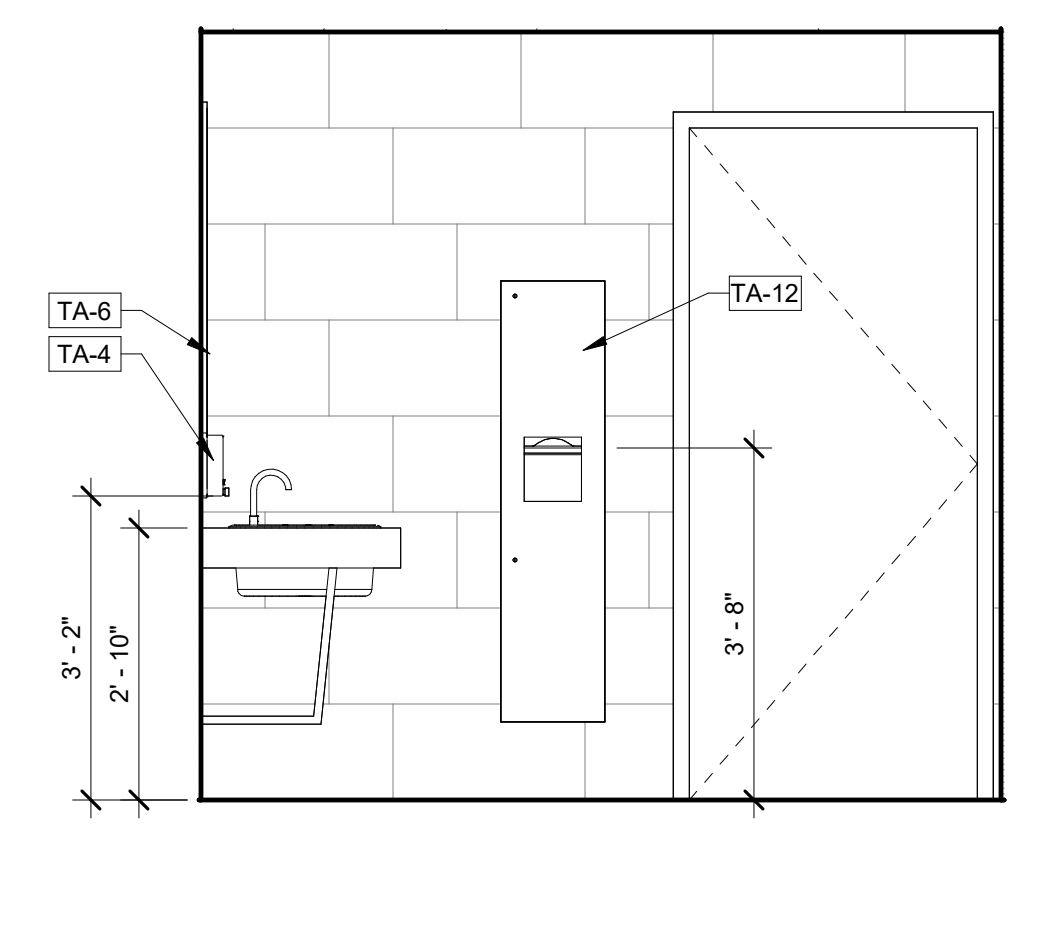
12 ROOM 106 - NORTH
1/2" = 1'-0"



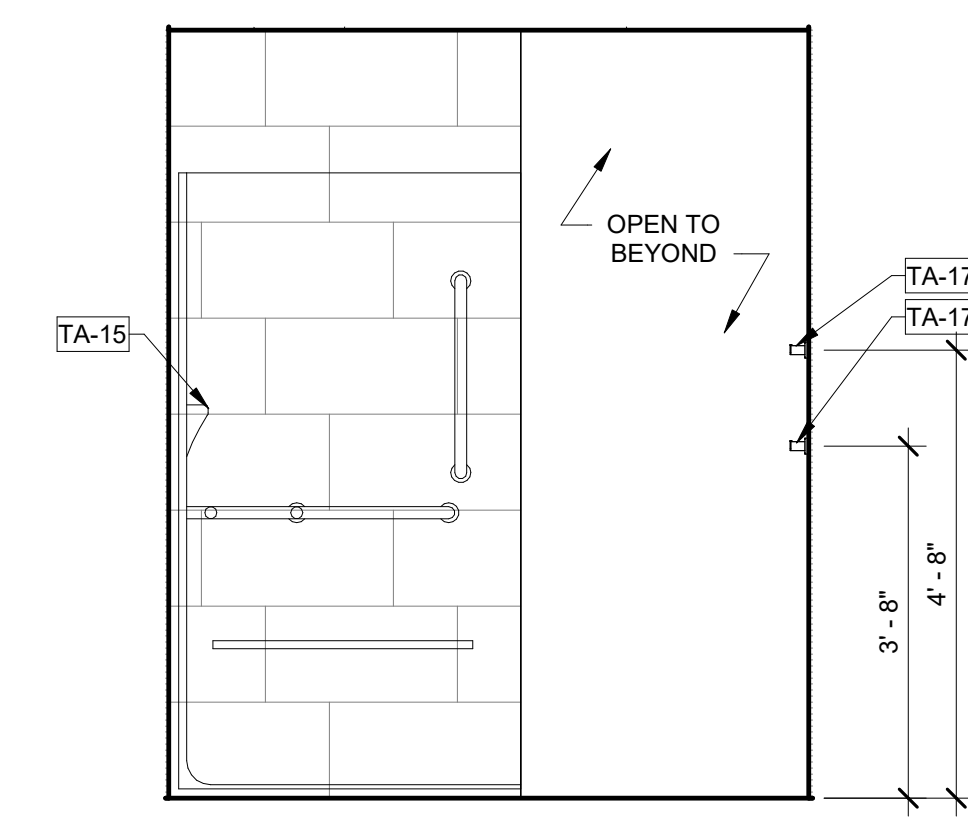
13 ROOM 106 - WEST
1/2" = 1'-0"



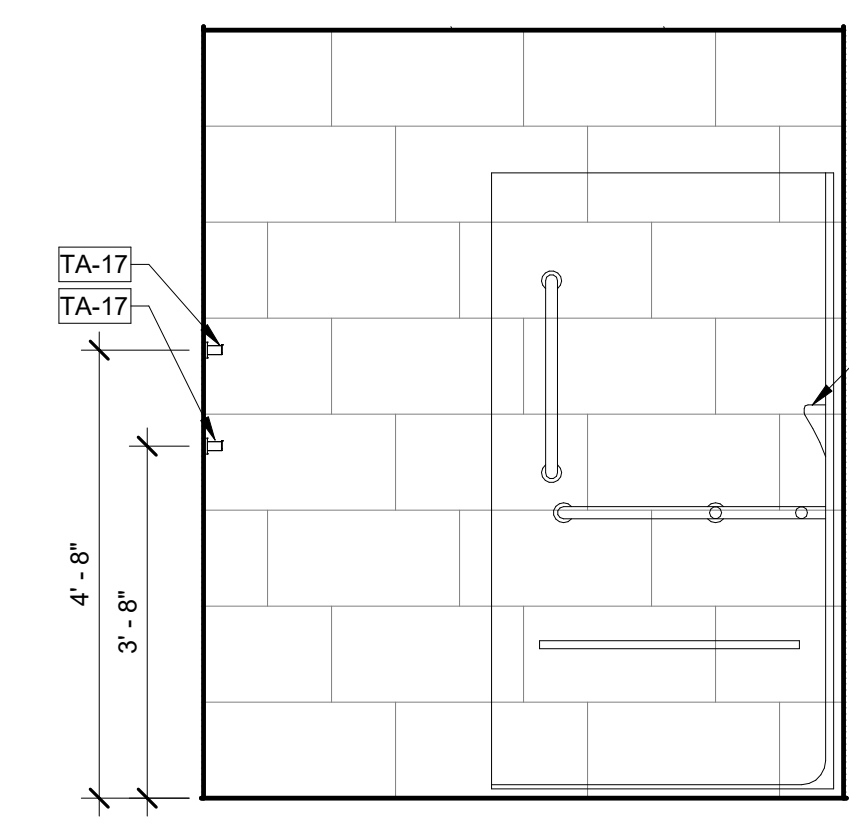
14 ROOM 106 - SOUTH
1/2" = 1'-0"



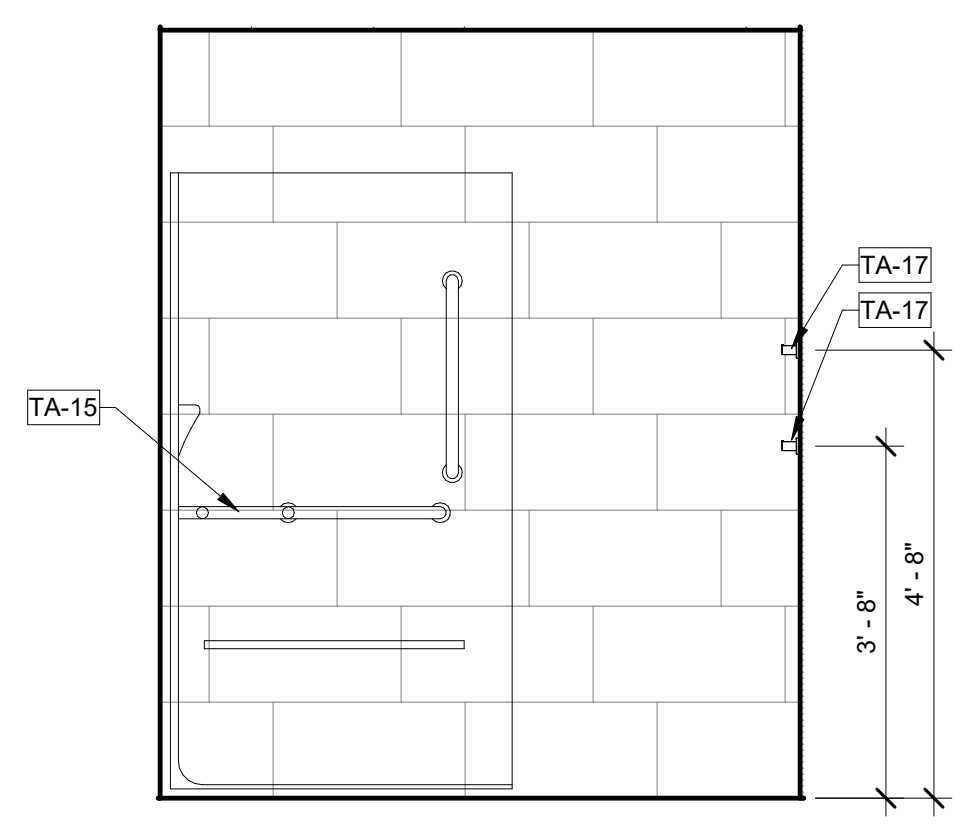
15 ROOM 106 - EAST
1/2" = 1'-0"



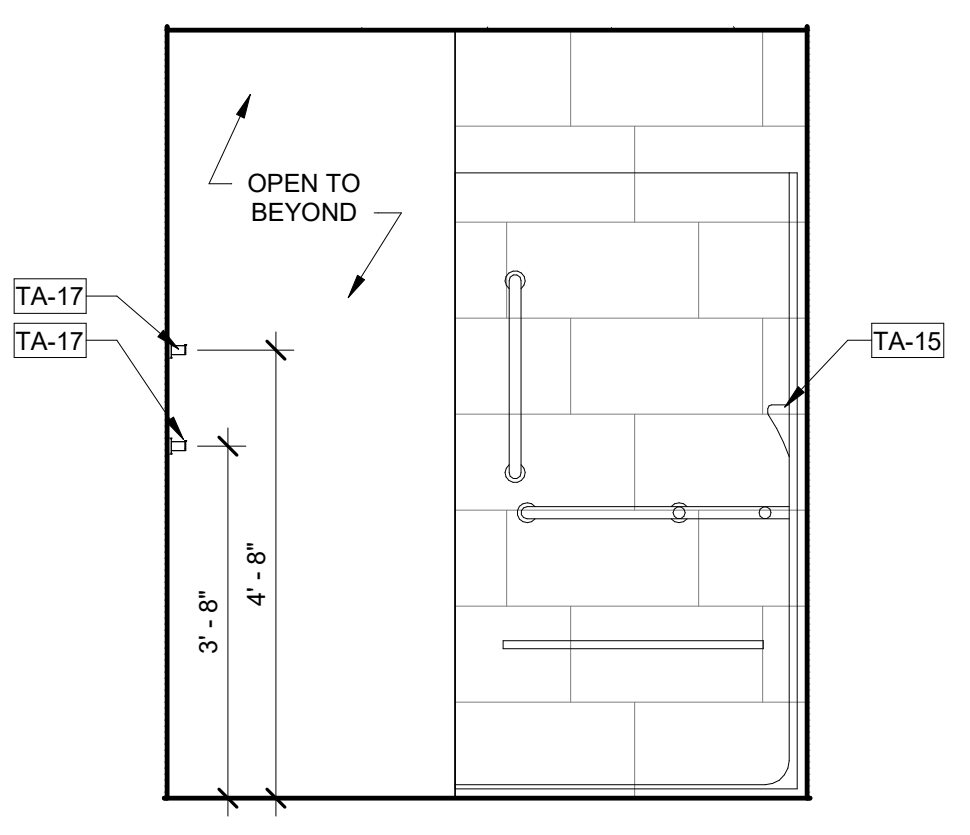
7 ROOM 106 - EAST 2
1/2" = 1'-0"



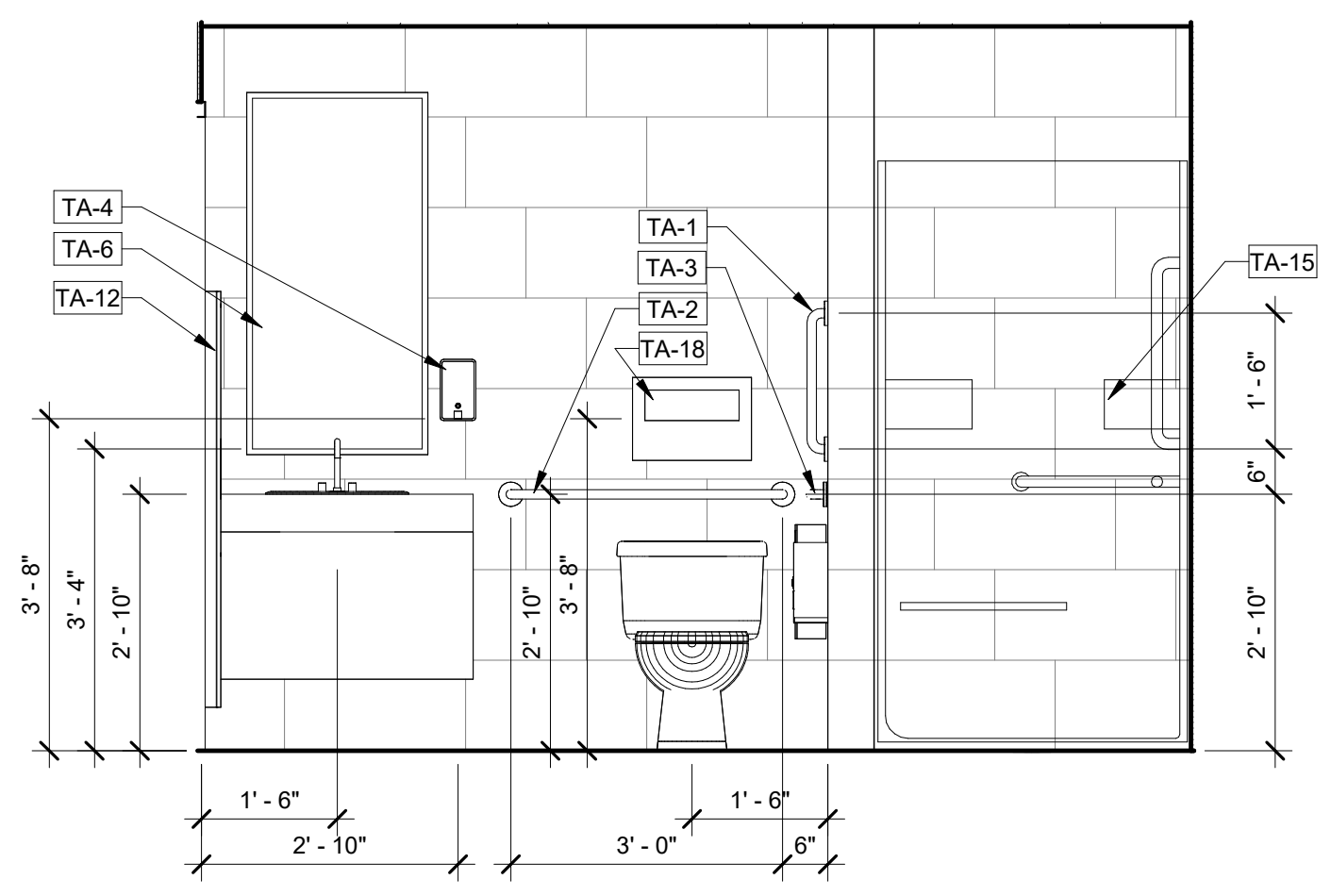
8 ROOM 106 - WEST 2
1/2" = 1'-0"



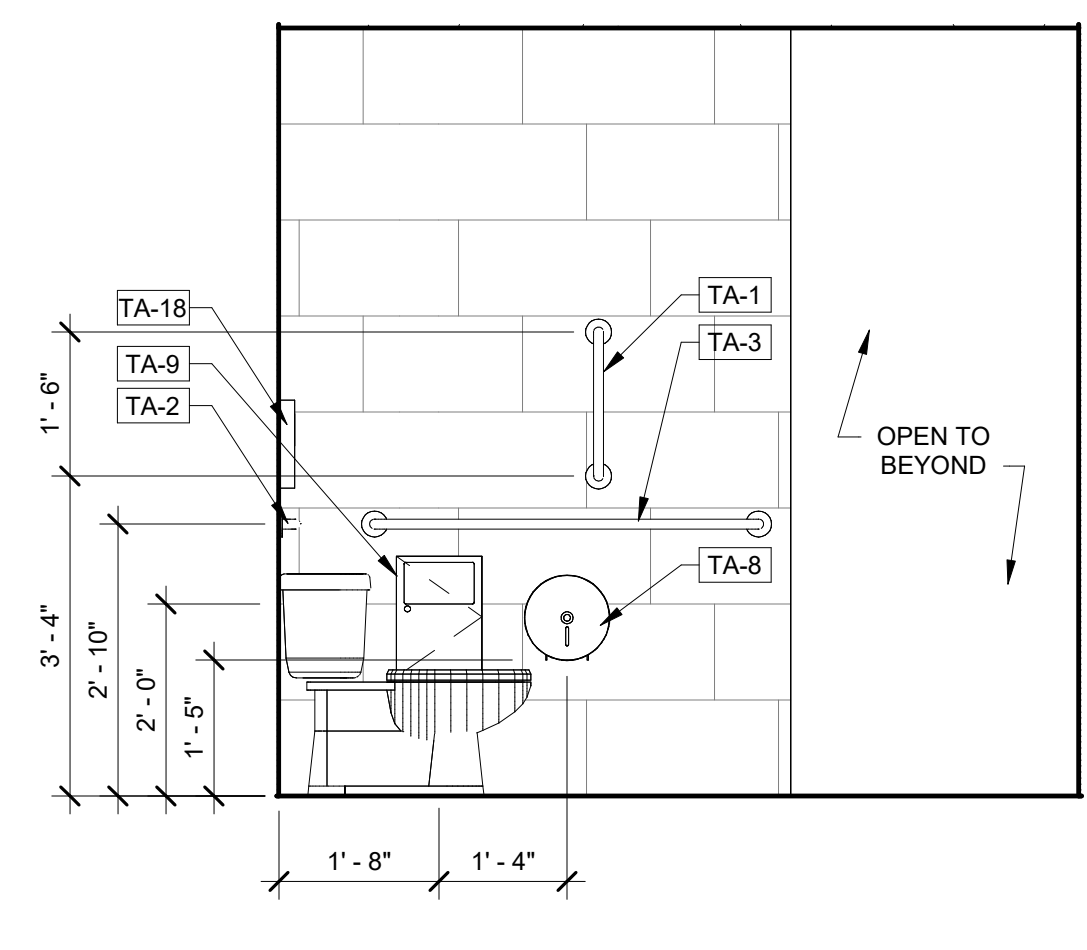
9 ROOM 105 - WEST 2
1/2" = 1'-0"



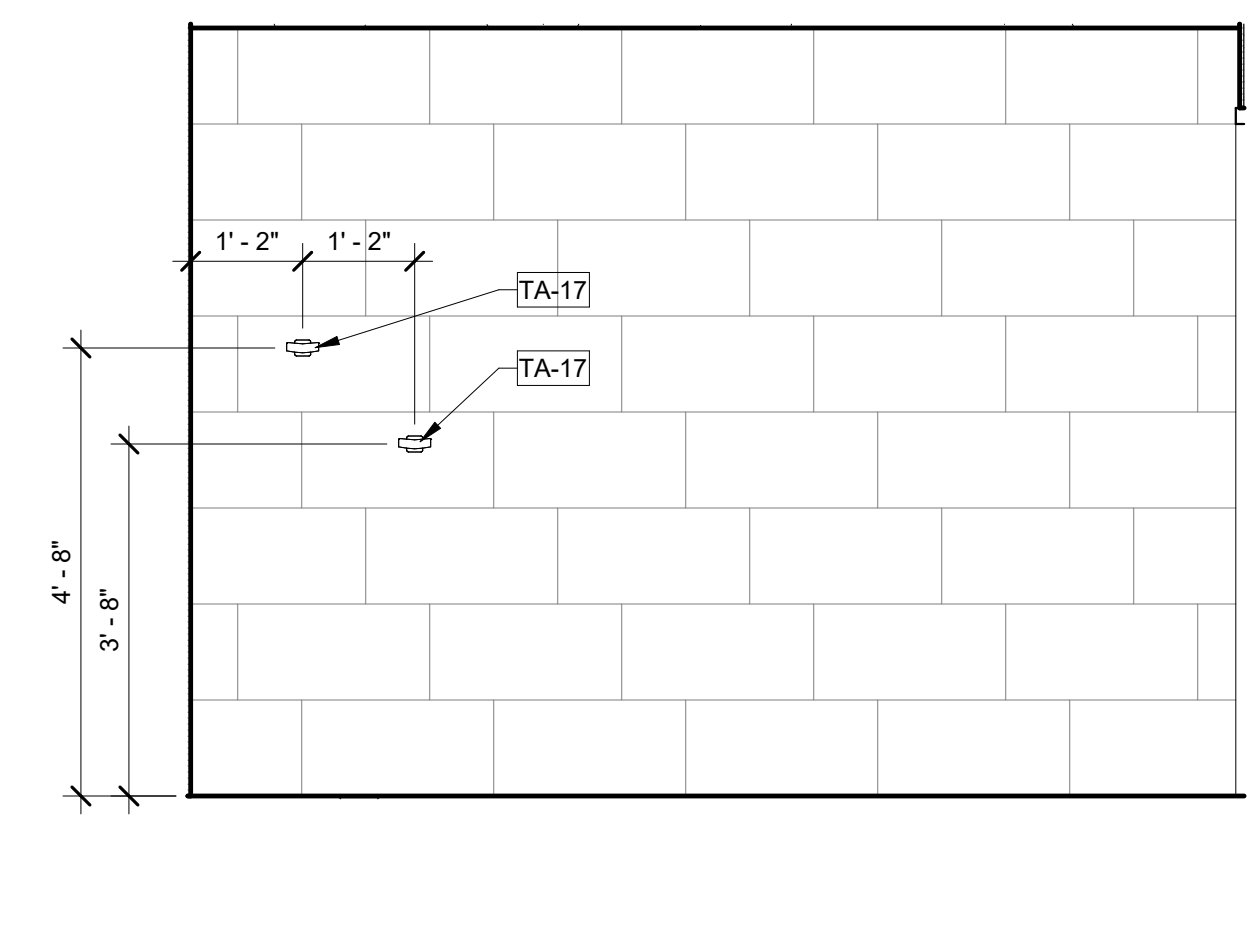
10 ROOM 105 - EAST 2
1/2" = 1'-0"



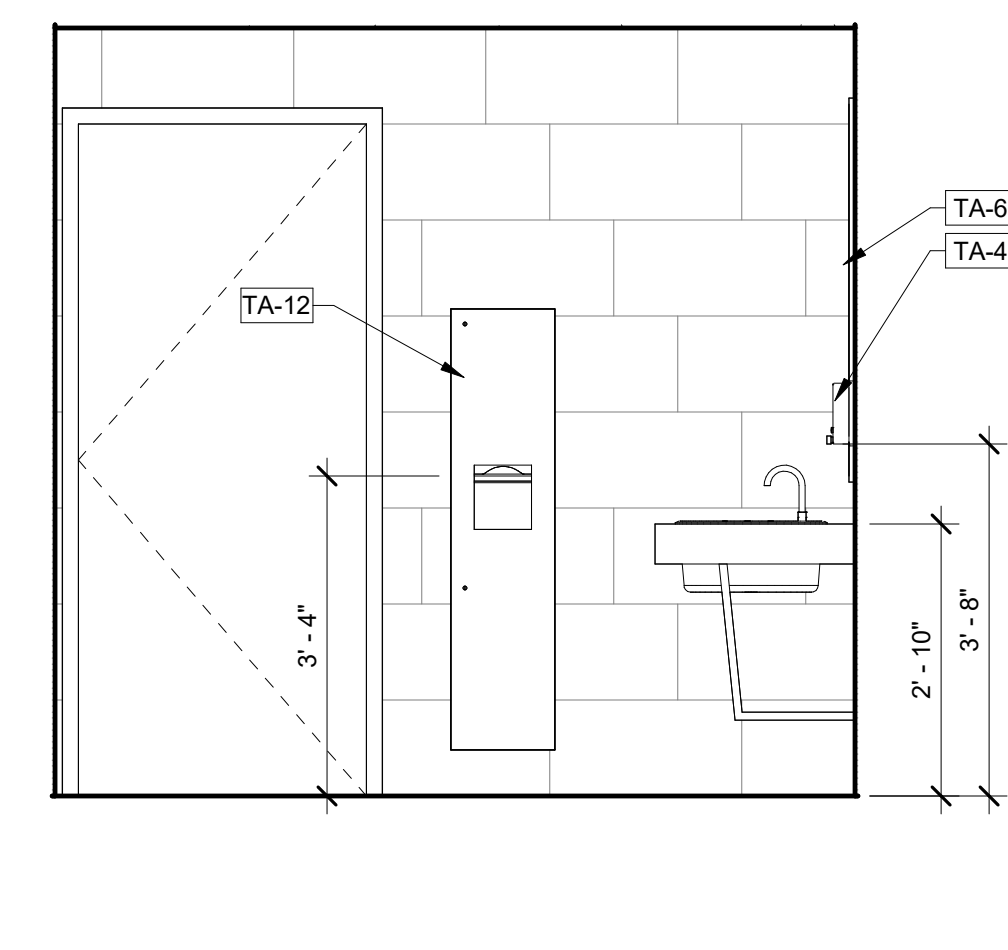
2 ROOM 105 - SOUTH
1/2" = 1'-0"



3 ROOM 105 - WEST
1/2" = 1'-0"



4 ROOM 105 - NORTH
1/2" = 1'-0"



5 ROOM 105 - EAST
1/2" = 1'-0"

TOILET ACCESSORY LEGEND AND NOTES

SYMBOL	DESCRIPTION	MODEL
TA-1	18" GRAB BAR	BOBRICK B-5806 09X18
TA-2	36" GRAB BAR	BOBRICK B-5806 99X36
TA-3	42" GRAB BAR	BOBRICK B-5806 99X42
TA-4	SURFACE-MOUNTED HAND SOAP DISPENSER	BOBRICK B-2111
TA-6	24" X 48" SIDE EDGE LIGHTED MIRROR- SEE ELECTRICAL	MATRIX MIRRORS- L4 (2700K)
TA-8	SURFACE-MOUNTED TOILET TISSUE DISPENSER	BOBRICK B-2890
TA-9	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK B-254
TA-12	SEMI RECESSED PAPER TOWEL DISPENSER/ DISPOSAL	BOBRICK B-38032
TA-14	SHOWER CURTAIN AND ROD	BOBRICK B-204
TA-15	PREFABRICATED ADA SHOWER WITH GRAB BARS, FOLDING SEAT AND ACCESSIBLE CONTROLS	COMFORT DESIGN SSS 36378F 3P RRF
TA-17	DOUBLE ROBE HOOK	BOBRICK B-672
TA-21	MOP/ BROOM HOLDER	BOBRICK B-223

1. ALL MODELS ARE BASIS OF DESIGN
2. ALL WALLS/ PARTITIONS WITHIN 2'-0" FROM SINKS, URINALS AND WATER CLOSETS SHALL MEET THE REQUIREMENTS OF NCSEC SECTION 1210.2



Air Field Hangar
Building
222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -
PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR
Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING
McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27528

STRUCTURAL ENGINEER
STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING
SABER
ENGINEERING
10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

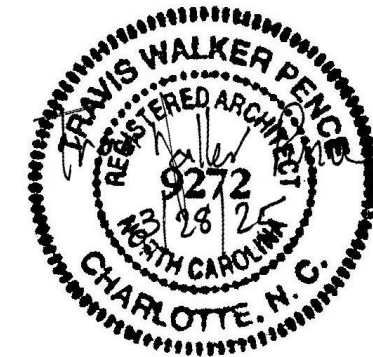
COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

**INTERIOR
ELEVATIONS**

SHEET NUMBER
A-402



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER

STEWART
ENGINEERING
101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING
10200 Mallard Creek Rd, Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

PLAN DETAILS

SHEET NUMBER

A-501

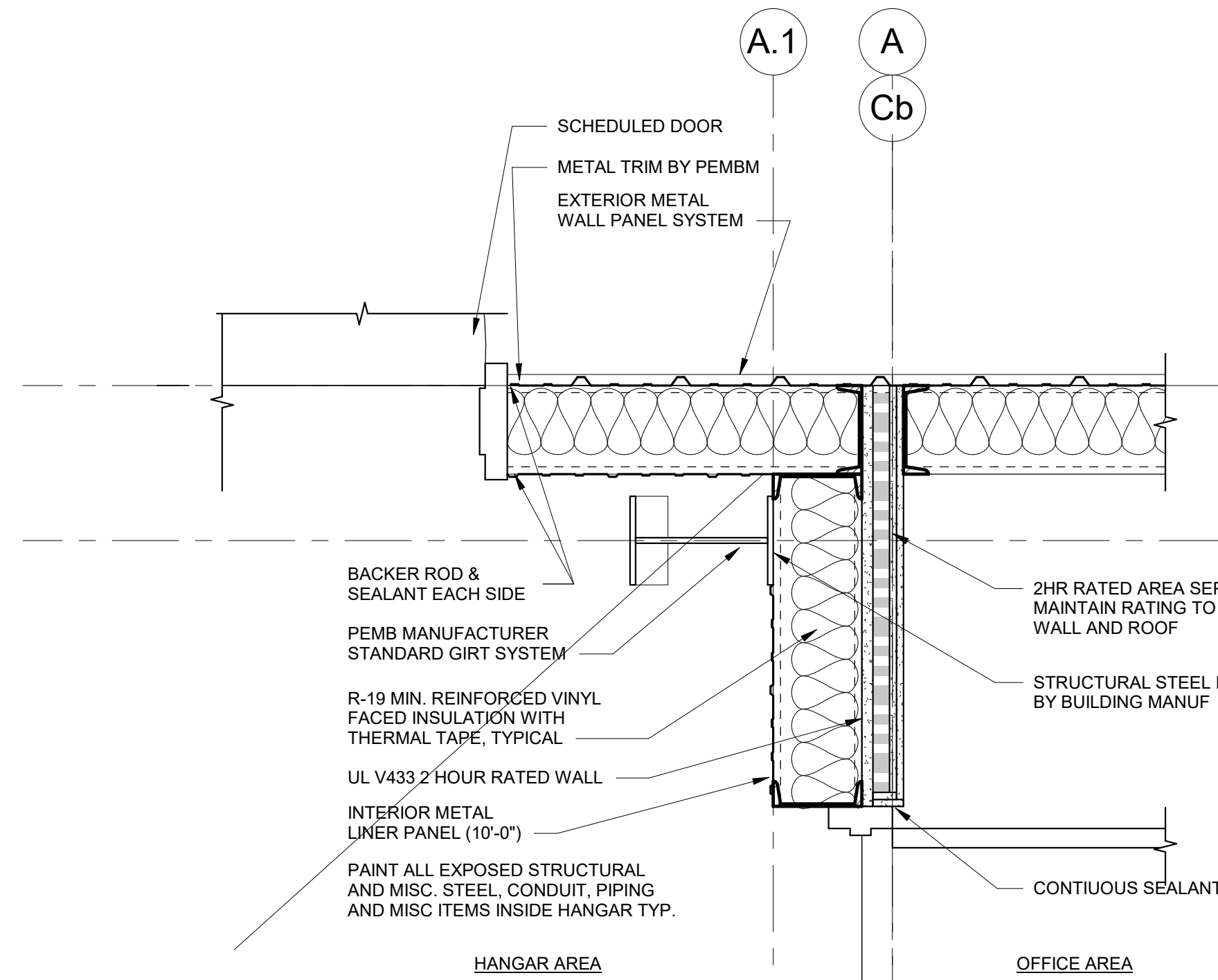
PARTITION NOTES

1. ALL GYPSUM WALL BOARD TO BE 5/8" TYPE 'X' U.N.O.
2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TO COLUMN CENTER LINE, FACE OF GWB/STUD PARTITIONS, FACE OF MASONRY AND CONCRETE WALLS AND FACE OF EXISTING WALLS.
3. HOLD TOP OF PARTITION DOWN 1/2" FROM TOP RUNNER WHERE PARTITION EXTENDS TO STRUCTURE ABOVE.
4. ALL CAULK AND SEALANT SHALL BE CONTINUOUS.
5. ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF U.N.O. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC. IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF PENETRATION.
6. ALL FIRE AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH SAFEGING MATERIAL ONLY. SAFEGING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS GYPSUM WALL BOARD OR UL LISTED FIRE PROOFING MATERIAL AND ASSEMBLY.
7. ALL SOUND RATED (STC) WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST.
8. STRUCTURAL STUDS (20 GA. MINIMUM) SHALL BE USED WHERE ANY NON-SELF-SUPPORTING WALL HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE. SEE TYPICAL SUPPORT DETAILS FOR WALL MOUNTED ITEMS.
9. ALL METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. BRACING SHALL BE AS FOLLOWS:
ATTACH A 3/8" OR 1/2" METAL STUD HORIZONTALLY AND CONTINUOUSLY TO PARTITION 6" MAXIMUM ABOVE FINISHED CEILING. PROVIDE 3/8" OR 1/2" METAL STUD KICKERS AT 45 DEGREE ANGLE TO STRUCTURE AT 4'-0" O.C.
10. KICKERS SHALL HAVE CLIP ANGLES (14 GA MIN.) WITH TWO 1/4" ANCHORS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING.
11. DO NOT FASTEN TOP RUNNER TO STUDS; CRIMP RUNNER ON BOTH SIDES OF STUD TO STABILIZE STUD.
12. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS TILE, PANELING, ETC. WHICH ARE NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.
13. WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MOST IMPORTANT EXPOSED FINISHED FACE, AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTION OF SUCH PARTITIONS.

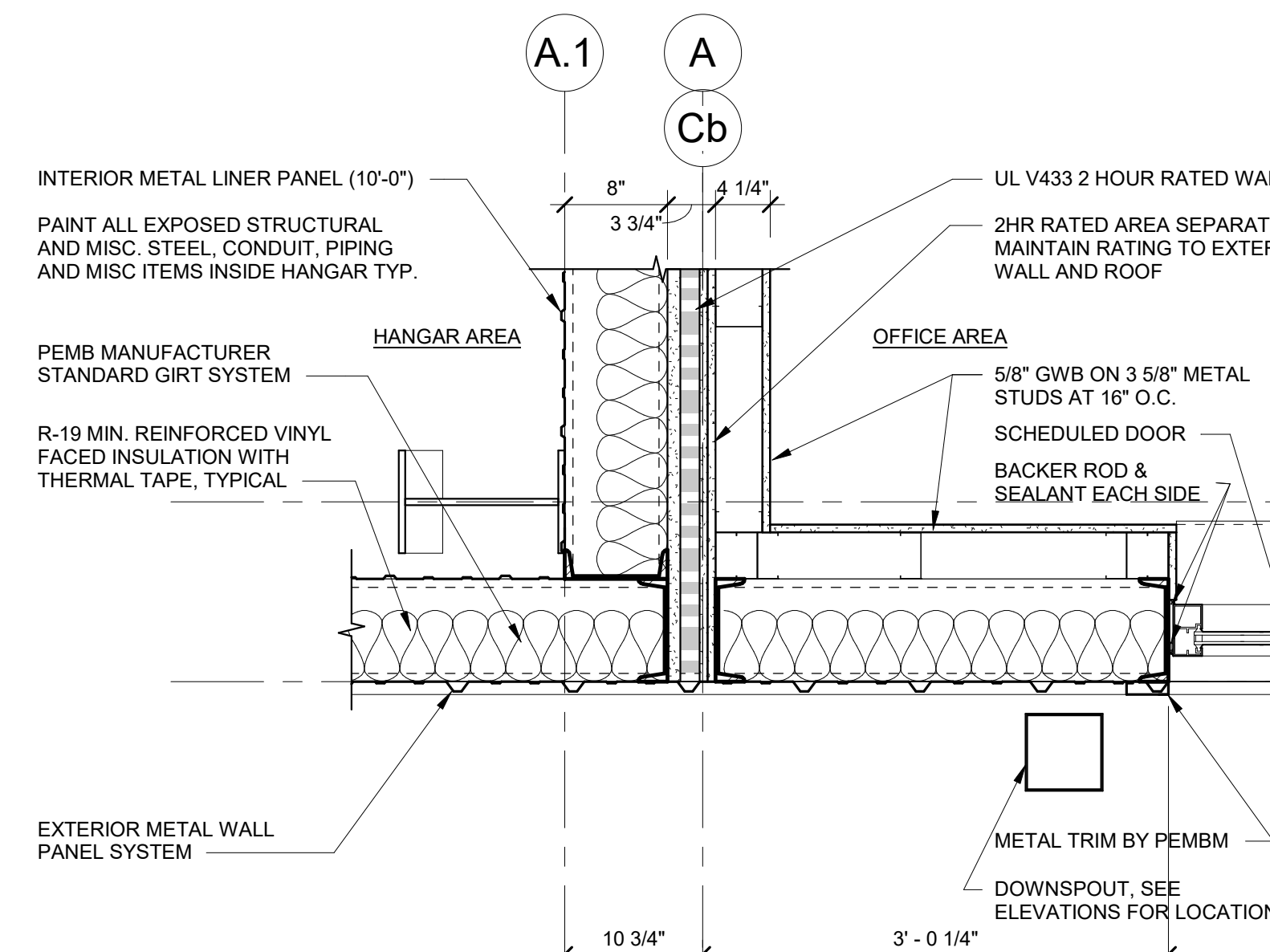
14. WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING.
15. PURSUANT TO NC806.003 ALL WOOD PRODUCTS SHALL BE FIRE-RETARDANT TREATED (FRT), INCLUDING BUT NOT LIMITED TO WOOD BLOCKING, CABINETRY AND MILLWORK SUBSTRATES, AND EXPOSED PLYWOOD PANELS.
16. WHERE SPECIALTY WALL PANEL SYSTEMS ARE TO BE APPLIED TO PARTITIONS, SHIMMING MAY BE REQUIRED TO ENSURE A FLUSH AND PLUMB INSTALLATION.
17. ELECTRICAL AND TELECOM ROOMS: IN ADDITION TO GWB AS SCHEDULED, WRAP ENTIRE ROOM IN 3/4" VIRGIN, VOID-FREE, FIRE-RATED PLYWOOD, FROM 0'-4" AFF TO 8'-6" AFF, LAG-BOLTED TO WALLS AT METAL STUD LOCATIONS. PAINT ALL WALL SURFACES AS SCHEDULED.
18. ALL CLOSETS ARE TO RECEIVE WOOD SHELVING AND ROD U.N.O.
19. PROVIDE FR SOLID WOOD BLOCKING IN WALL AS REQUIRED FOR MOUNTING OF CABINETS, GRAB BARS, TVS, TOILET PARTITIONS AND ACCESSORIES, ETC. SEE PLANS AND ELEVATIONS FOR LOCATIONS OF WALL-MOUNTED BUILT-INS AND EQUIPMENT.
20. USE MOISTURE RESISTANT GWB AT ALL WET AREAS.
21. SEE STRUCTURAL FOR SHEAR WALL LOCATIONS AND INFORMATION. GC TO COORDINATE SHEATHING SIDE AND EXTENTS WITH ARCHITECTURAL AND STRUCTURAL.

METAL STUD GAUGES	LOCATION	LENGTH	GAUGE
	PARTITION	UP TO 8'-0"	20 GAUGE
	PARTITION	UP TO 10'-0"	18 GAUGE
	PARTITION	UP TO 12'-0"	16 GAUGE
	PARTITION	GREATER THAN 12'-0"	SEE STRUCTURAL DRAWINGS.
	BULKHEAD	UP TO 6'-0"	25 GAUGE
	BULKHEAD	UP TO 8'-0"	20 GAUGE
	BULKHEAD	GREATER THAN 8'-0"	SEE SPECIFIC DETAILS AND/OR STRUCT. DRWGS.
	SOFFIT	UP TO 4'-0"	25 GAUGE
	SOFFIT	UP TO 8'-0"	25 GAUGE, SEE SPECIFIC DETAILS FOR SUPPORT
	SOFFIT	GREATER THAN 8'-0"	SUSPENDED SYSTEM MUST BE USED
	DOOR / WINDOW	U.N.O.	16 GA (2 STUDS AT ALL LOCATIONS)

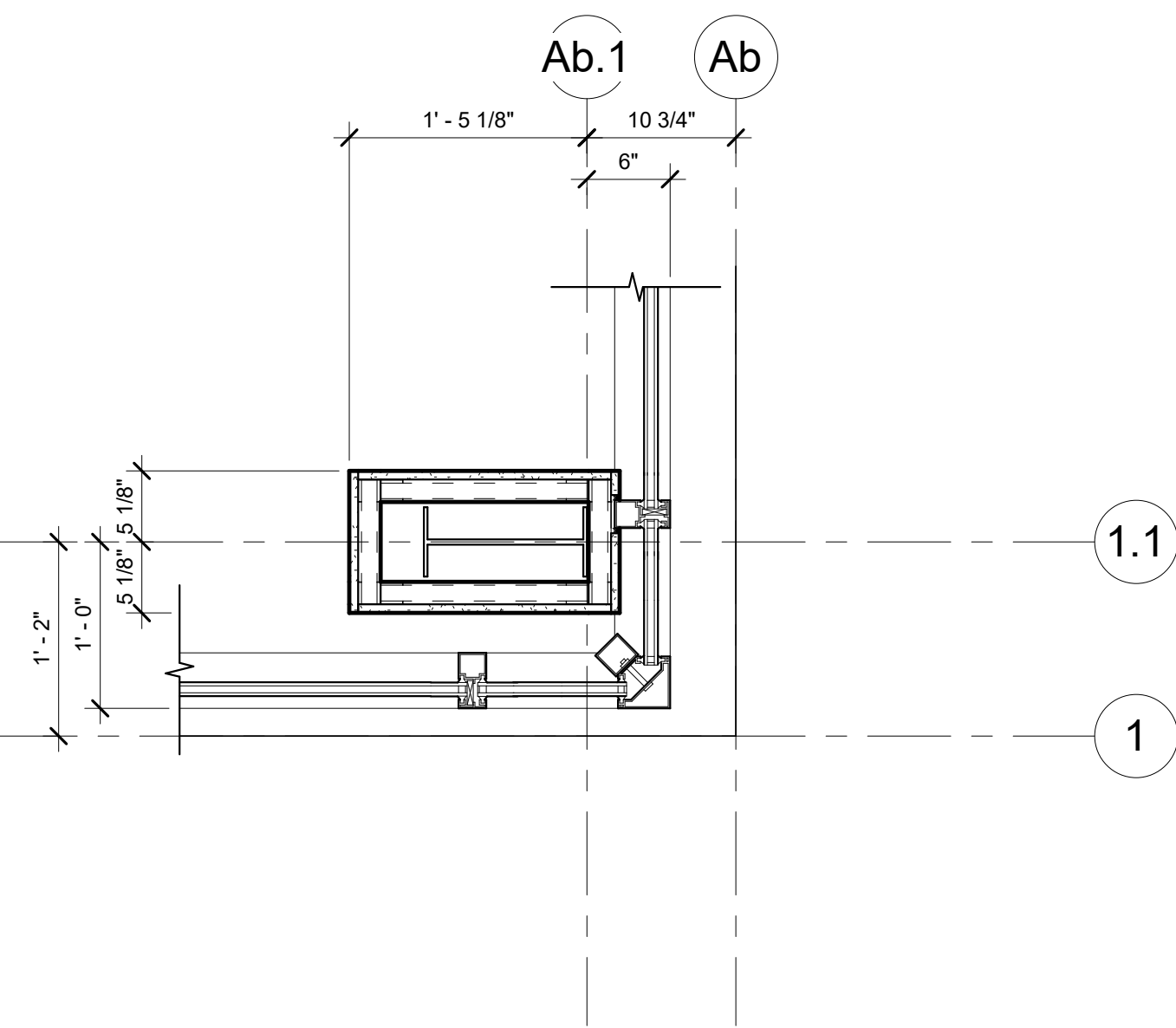
NOTE: U.L. AND STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER THE ABOVE SPECIFICATIONS.



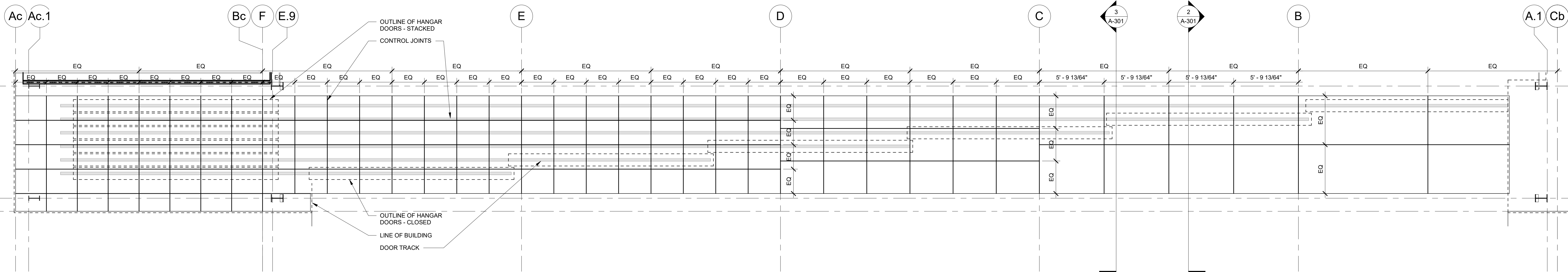
8 PLAN DETAIL
1" = 1'-0"



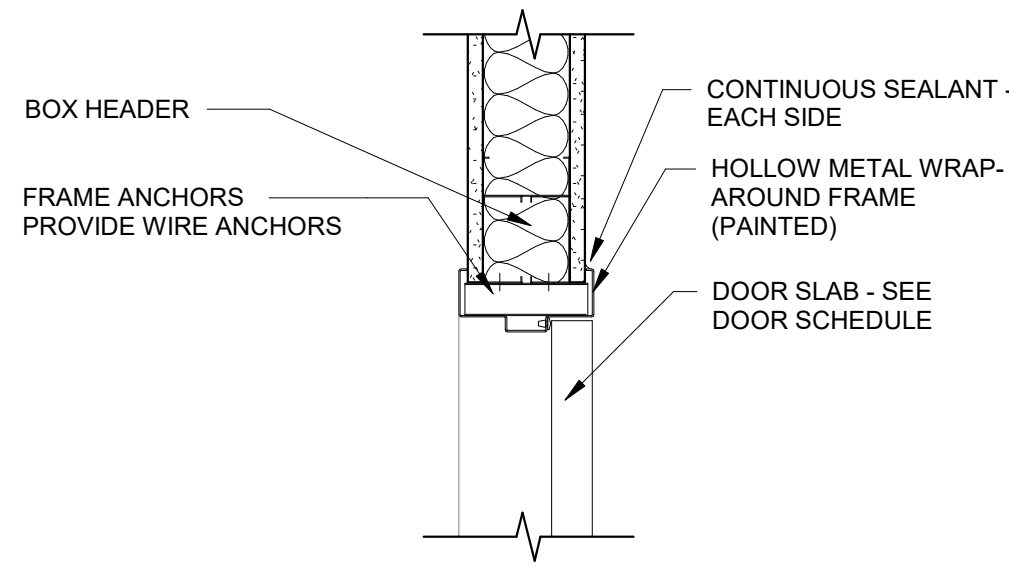
9 PLAN DETAIL
1" = 1'-0"



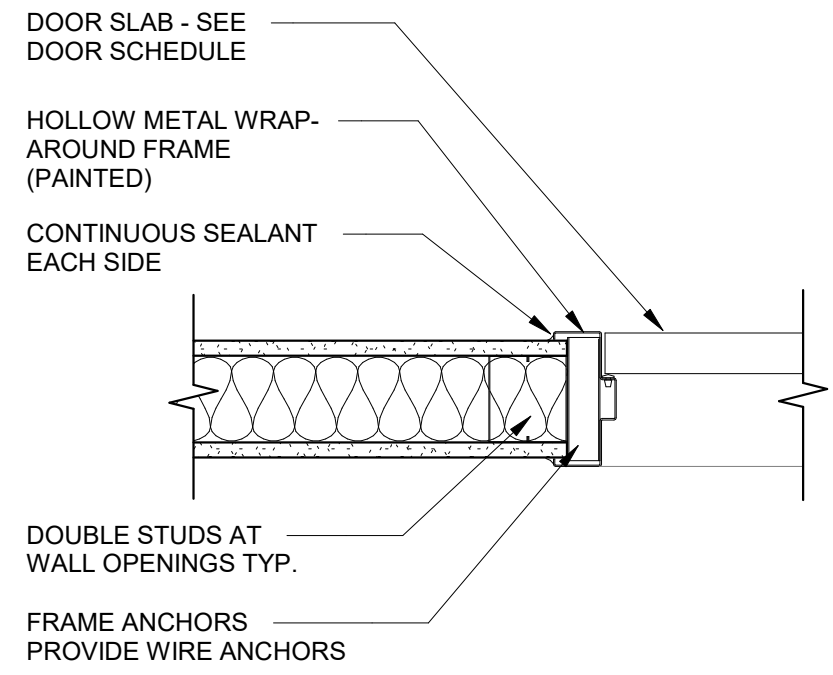
10 PLAN DETAIL
1" = 1'-0"



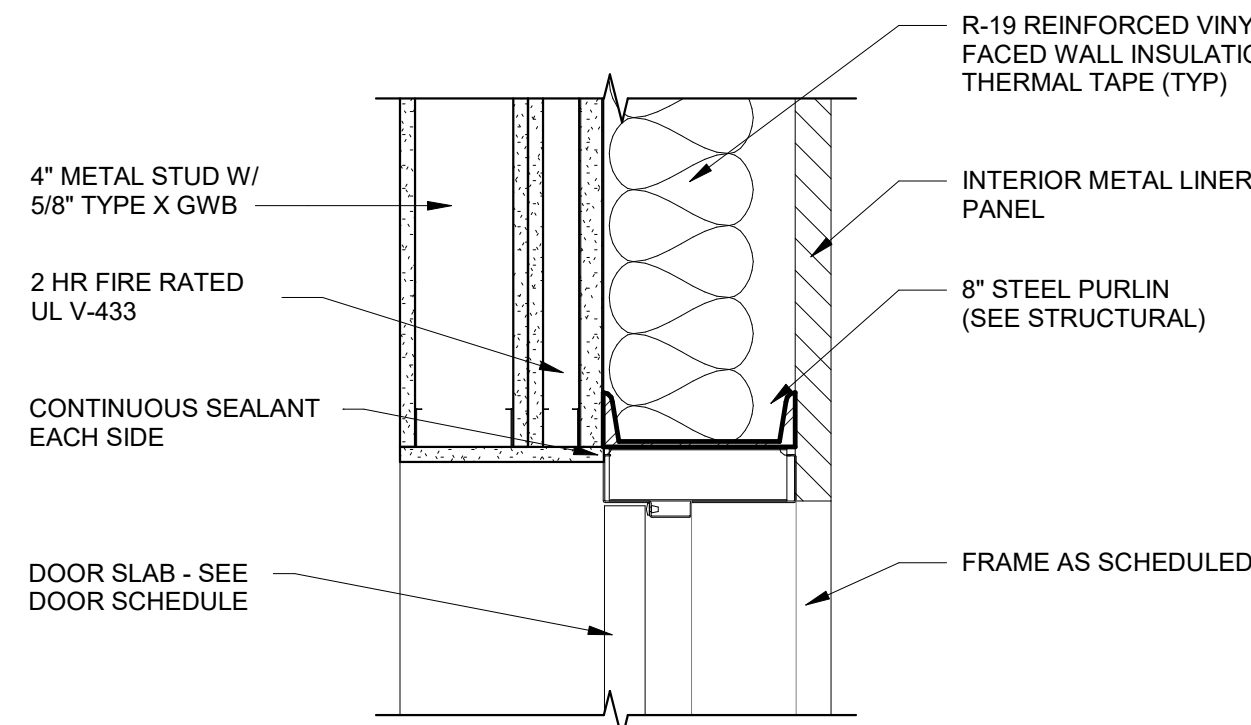
3 CONTROL JOINT PLAN
1/4" = 1'-0"



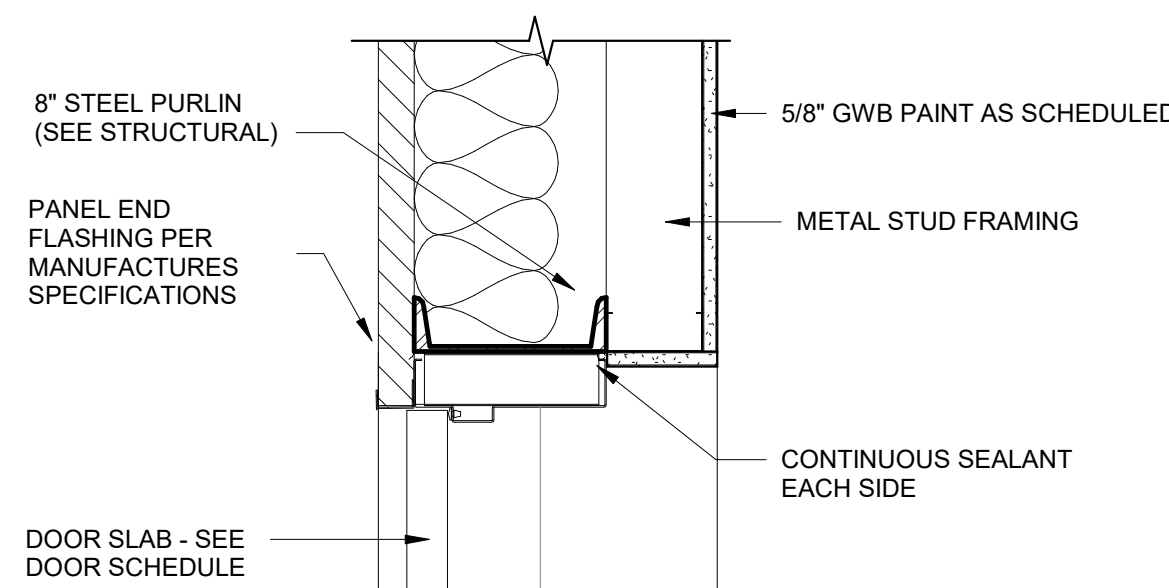
H1
HEADER H1
1 1/2" = 1'-0"



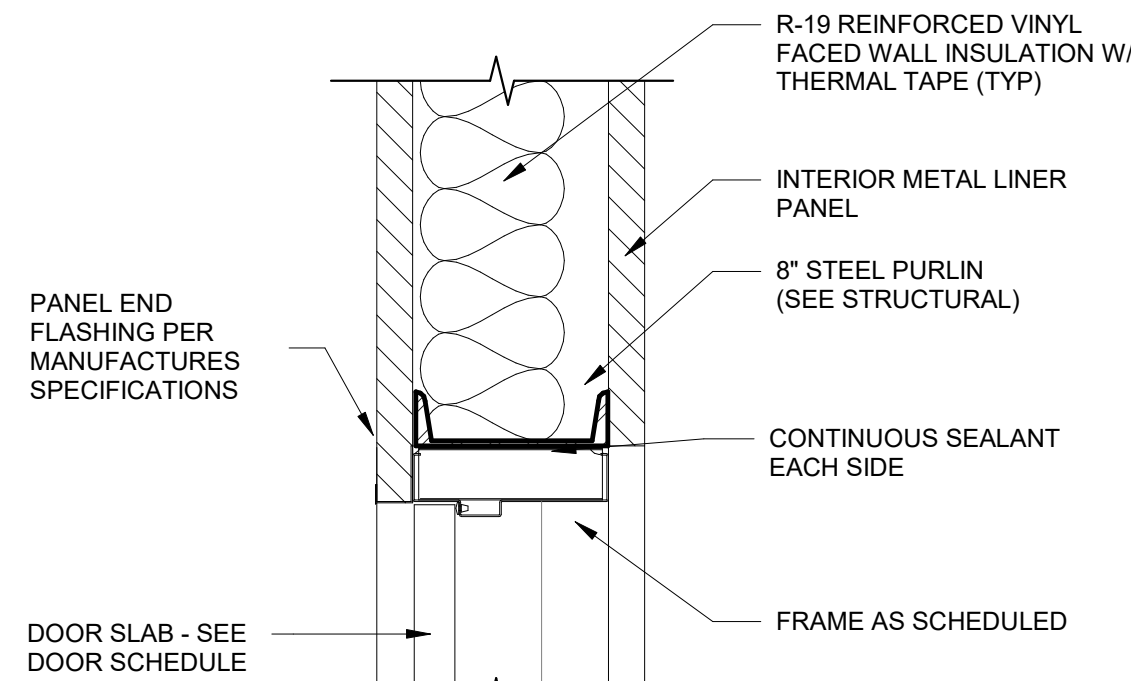
J1
JAMB J1
1 1/2" = 1'-0"



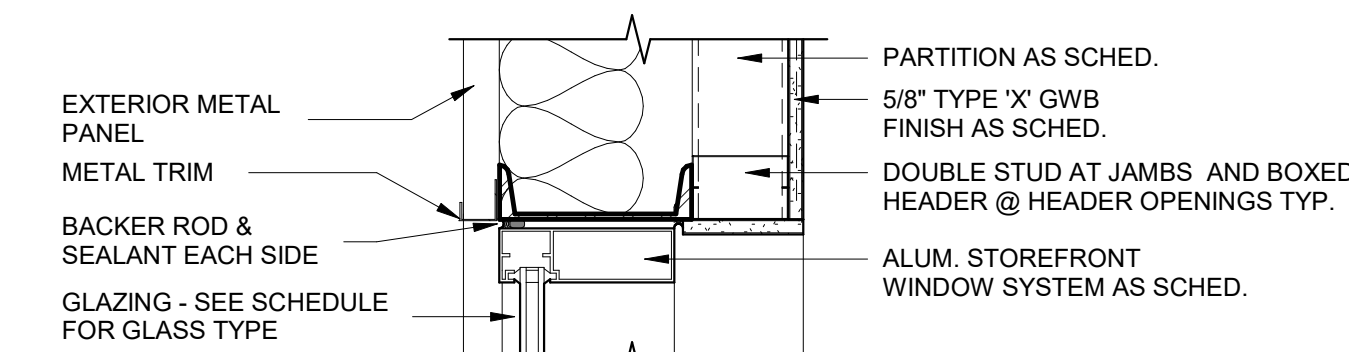
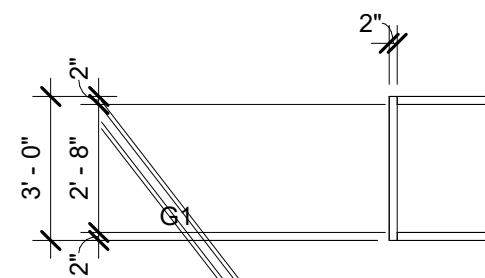
JH2
JAMB/HEAD J2/H2
1 1/2" = 1'-0"



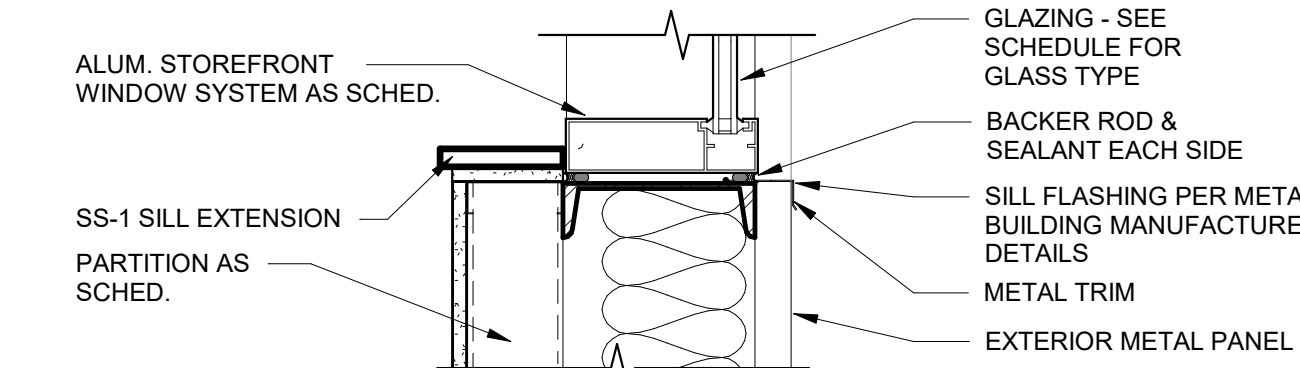
JH4
JAMB/HEAD J4/H4
1 1/2" = 1'-0"



JH3
JAMB/HEAD J3/H3
1 1/2" = 1'-0"

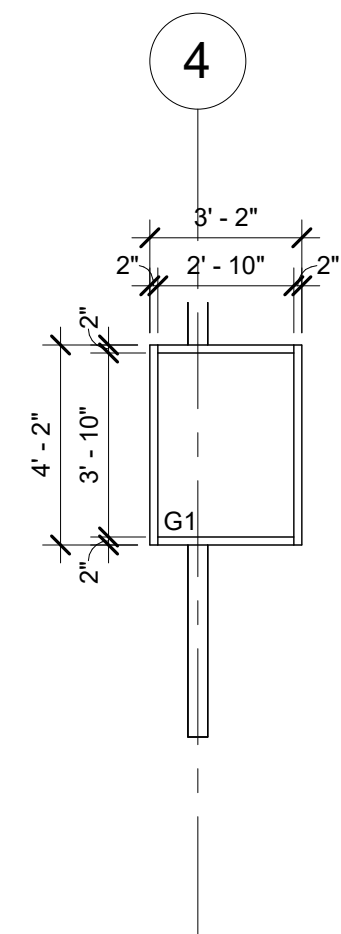


JH5
JAMB/HEAD J5/H5
1 1/2" = 1'-0"

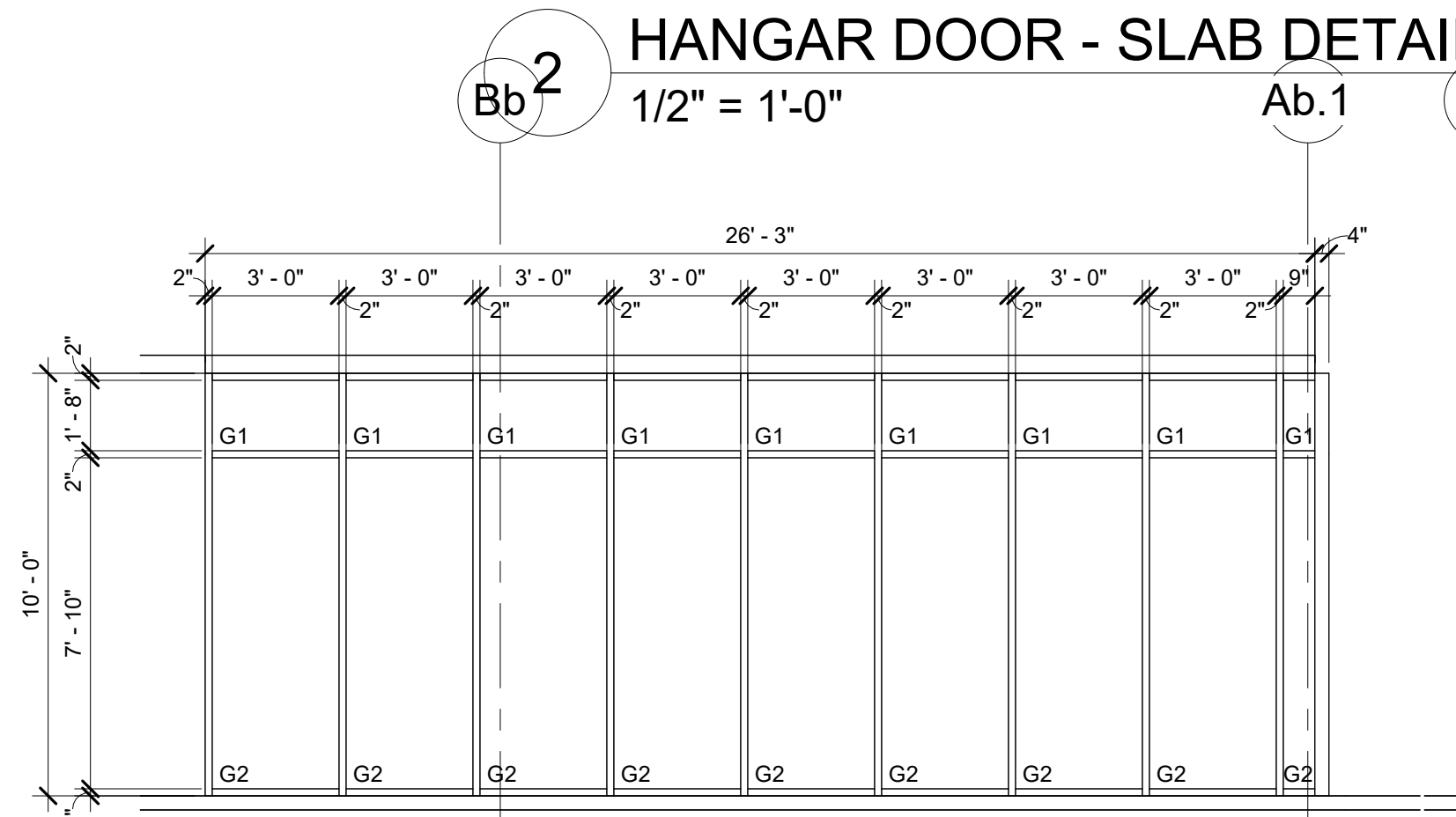


S5
SILL S5
1 1/2" = 1'-0"

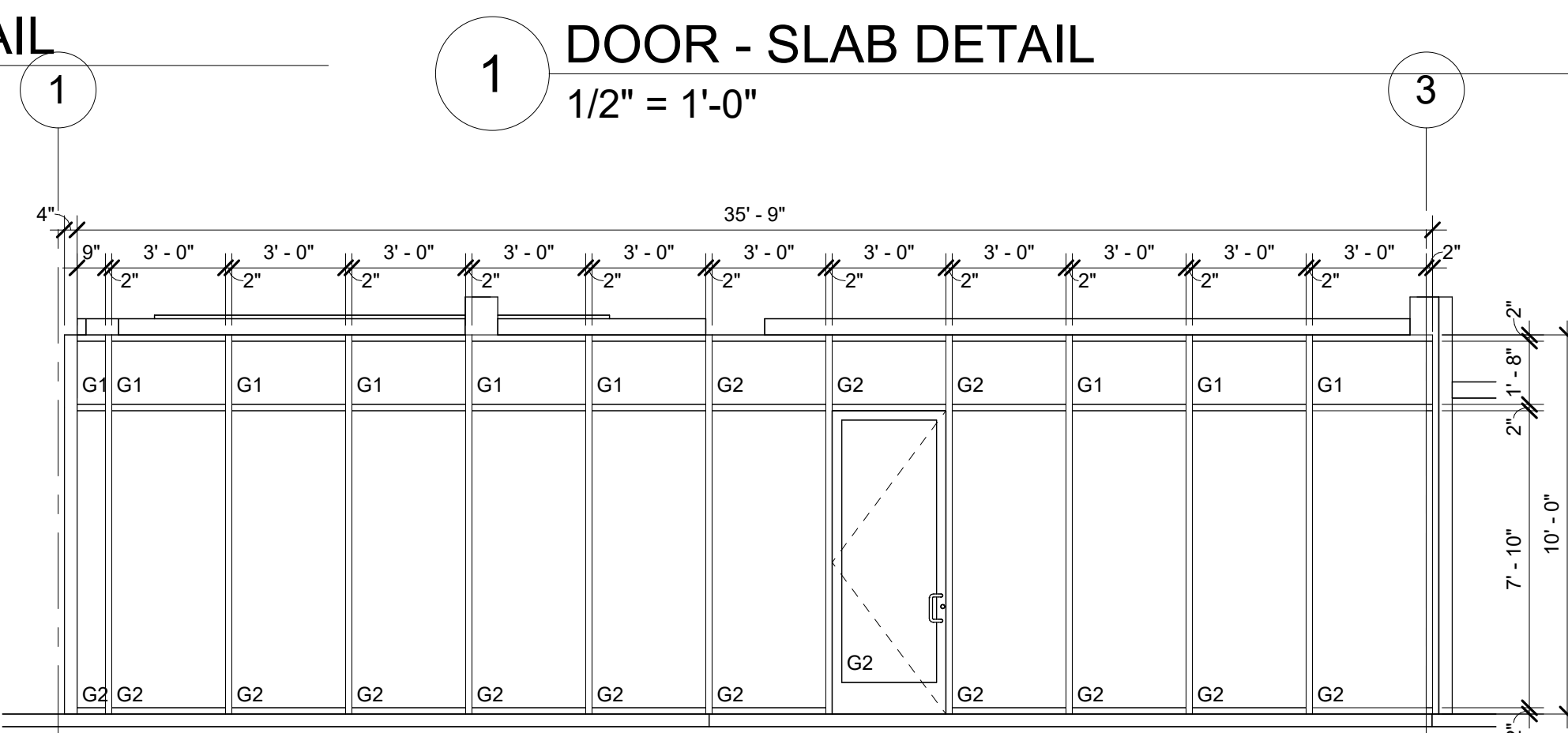
W4
WINDOW TYPE W4
1/4" = 1'-0"



W3
WINDOW TYPE W3
1/4" = 1'-0"



W2
WINDOW TYPE W2
1/4" = 1'-0"



W1
WINDOW TYPE W1
1/4" = 1'-0"

Bb2
HANGAR DOOR - SLAB DETAIL
1/2" = 1'-0"

1
DOOR - SLAB DETAIL
1/2" = 1'-0"

DOOR SCHEDULE

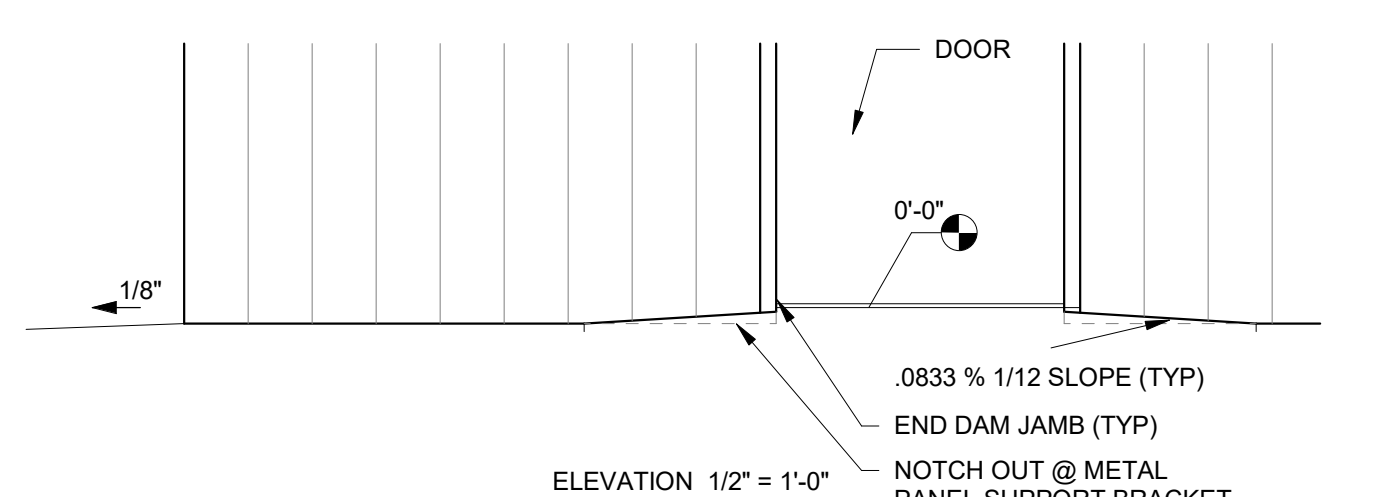
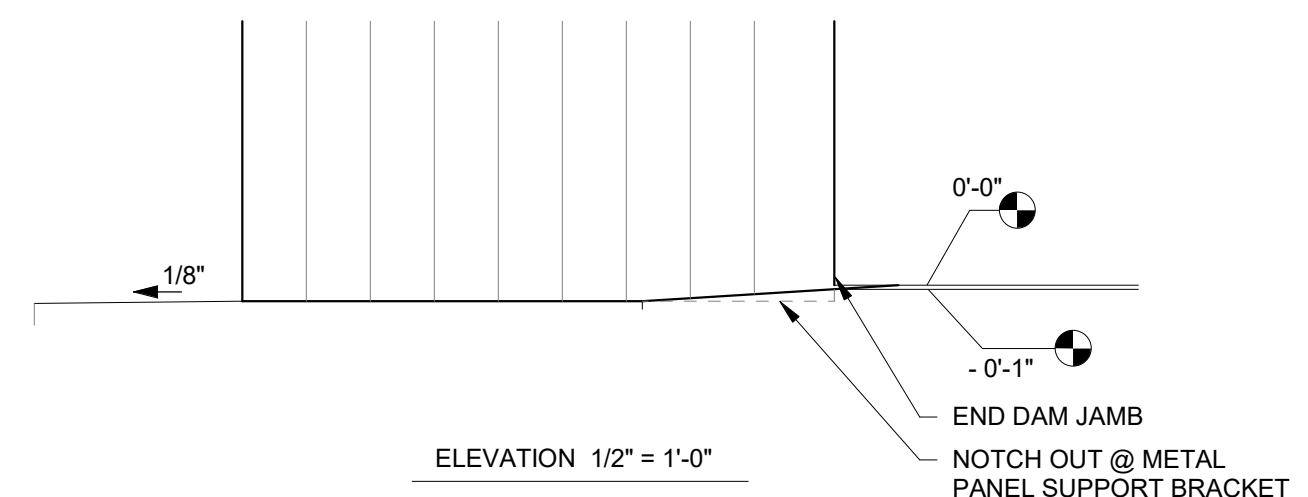
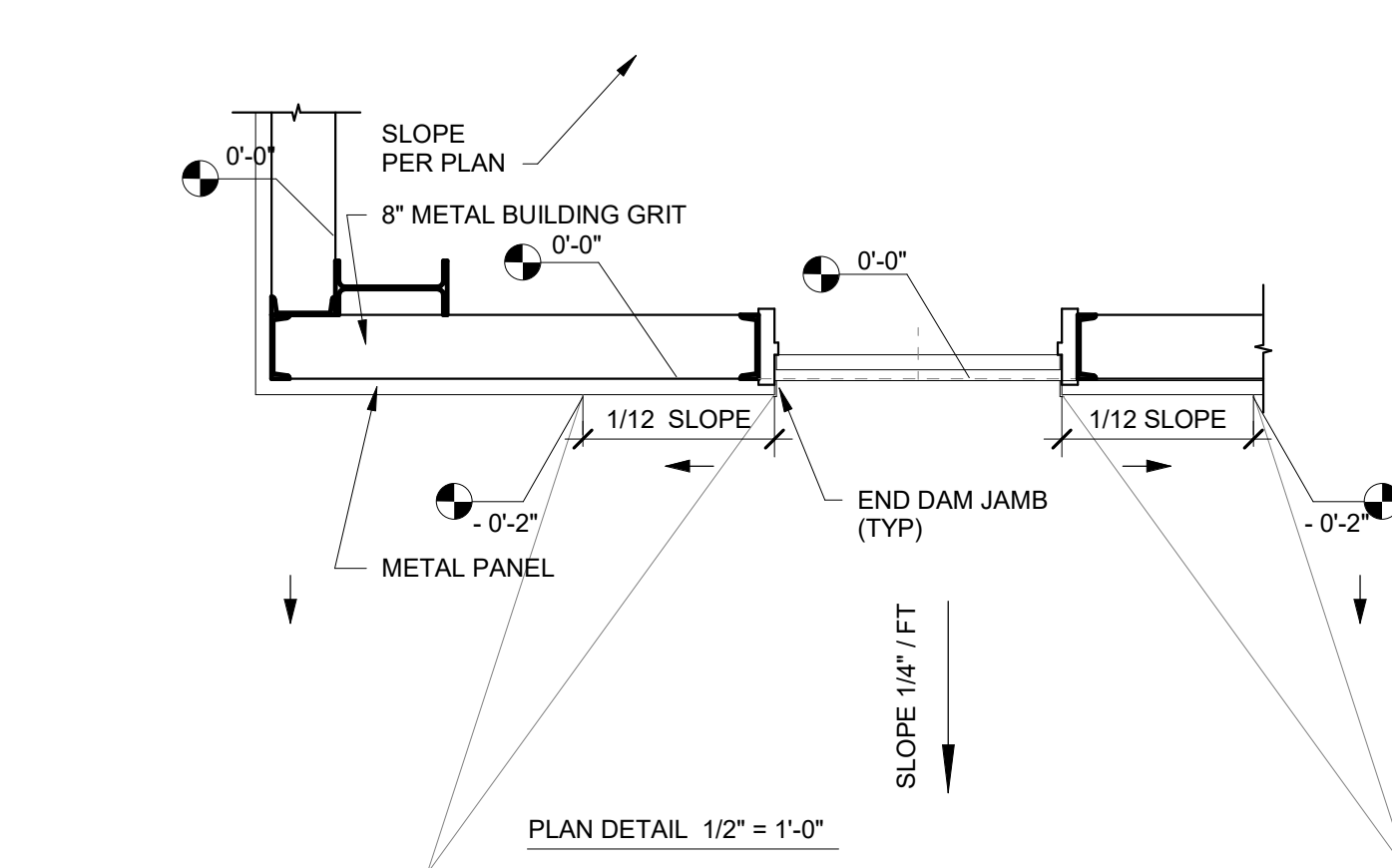
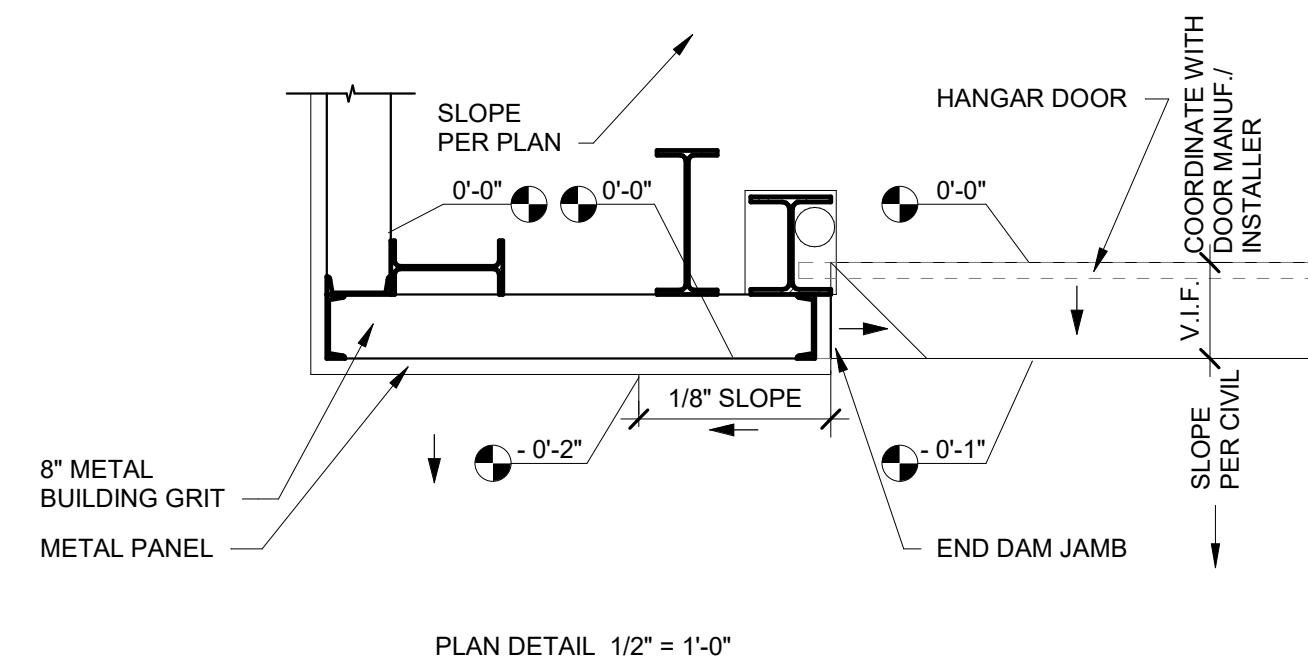
DOOR NUMBER	ROOM NAME	ROOM NUMBER	DOOR				DOOR FINISH	FRAME TYPE	FRAME		FIRE RATING	HARDWARE SET	COMMENTS
			DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL			FRAME MATERIAL	FRAME FINISH			
101A	HANGAR	101	A	3'-0"	7'-0"	HM	PAINT	F1	HM	PAINT	0 HR		
101B	HANGAR	101	A	3'-0"	8'-0"	HM	PAINT	F1	HM	PAINT	0 HR		
101C	HANGAR	101	A	3'-0"	8'-0"	HM	PAINT	F1	HM	PAINT	0 HR		
101D	HANGAR	101	D	12'-0"	12'-0"	ALUM	MANUF	-	-	MANUF	0 HR		MOTORIZED OPENING
101E	HANGAR	101	A	3'-0"	8'-0"	HM	PAINT	F1	HM	PAINT	0 HR		
101F	HANGAR	101	C	6'-0"	7'-0"	HM	PAINT	F1	HM	PAINT	2 HR		
101H	LOBBY	102	B	3'-0"	8'-0"	ALUM	MANUF	-	-	MANUF	0 HR		
101I	HANGAR	101	C	3'-0"	7'-0"	HM	PAINT	F1	HM	PAINT	2 HR		PROVIDE CLOSER ON MAGNETIC HOLD OPEN
101J	LOBBY	102	D	6'-6"	10'-0"	ALUM	MANUF	-	-	MANUF	2 HR		
102A	LOBBY	102	D	3'-0"	8'-0"	ALUM	MANUF	-	-	MANUF	0 HR		
104A	FUTURE	106	C	3'-0"	7'-0"	WOOD	STAIN	F1	HM	PAINT	0 HR		
105A	RESTROOM	105	C	3'-0"	7'-0"	WOOD	STAIN	F1	HM	PAINT	0 HR		
106A	RESTROOM	106	C	3'-0"	7'-0"	WOOD	STAIN	F1	HM	PAINT	0 HR		
107A	CONFERENCE ROOM	107	C	3'-0"	7'-0"	WOOD	STAIN	F1	HM	PAINT	0 HR		
108A	FUTURE	108	A	3'-0"	8'-0"	HM	PAINT	F1	HM	PAINT	0 HR		

DOOR LEGEND
1/4" = 1'-0"

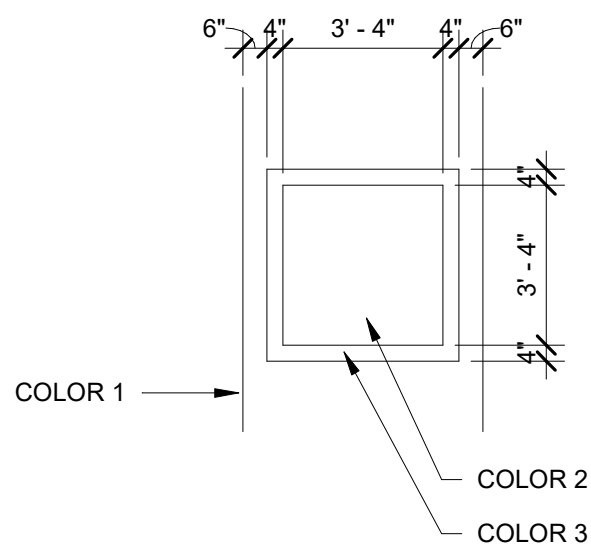
GLAZING LEGEND AND NOTES

G1	INSULATED LOW E GLAZING - CLEAR
G2	INSULATED LOW E FULLY TEMPERED GLAZING - CLEAR
G4	TEMPERED GLAZING - CLEAR

- NOTES:
- ALL DIMENSIONS ARE NOMINAL OF ROUGH OPENING AND ARE THE OVERALL SIZE. VERIFY IN FIELD PRIOR TO FABRICATION.
 - SEE WINDOW ELEVATIONS FOR GLAZING TYPE(S).
 - SEE WINDOW ELEVATIONS FOR DIMENSIONS/ LOCATIONS OF MULLIONS.
 - ALL EXTERIOR WINDOWS ARE TO RECEIVE WINDOW ROLLER SHADES AS SPECIFIED UNLESS NOTED OTHERWISE.



2 W.F.E. FLOOR MARKING DETAIL
1/4" = 1'-0"

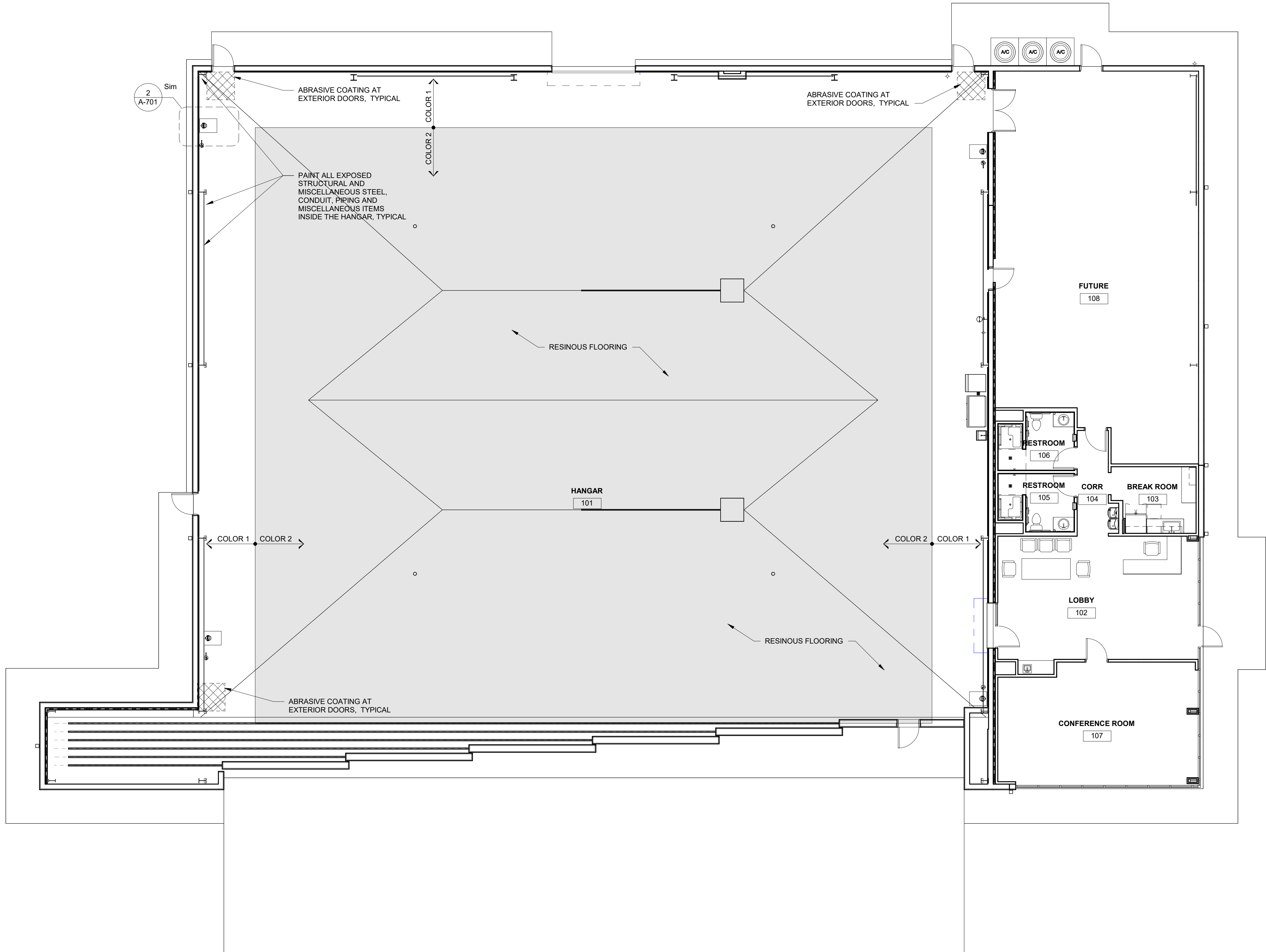


FINISH LEGEND

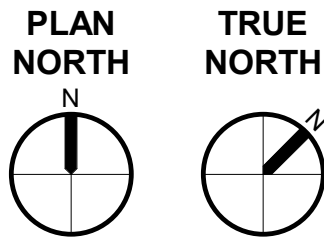
FLOORING		
OPT-1	CARPET	SHAW CONTRACT GROUP; AMPLIFY 5A176; MOONLIT 27505
SDT-1	STATIC DISSIPATIVE TILE	ARMSTRONG; EXCELOX; 51959 FOSSIL GRAY, 12" x 12"
RF-1	LIQUID FLOOR TREATMENT RESINOUS FLOORING	3 COLOR RESINOUS FLOORING
PT-1	PORCELAIN FLOOR TILE	DALTILE; DELEGATE DARK GREY DL27; 24" x 24"; STACKED PATTEN
BASE		
RB-1	RUBBER BASE	FLEXCO; 4" COVED VINYL WALL BASE; COLOR: 093 GRAPHITE;
WB-1	PORCELAIN TILE BASE	DALTILE; DELEGATE LIGHT GREY DL26; 12"x24"
WALL TILE		
WT-1	PORCELAIN WALL TILE	DALTILE; DELEGATE LIGHT GREY DL26; 12"x24"; STACKED PATTERN
COUNTERTOPS		
SS-1	QUARTZ COUNTERS	HANSTONE QUARTZ; SPECCHIO WHITE CT402; FOR COUNTERTOPS, BACKSPASHED AND SIDESPASHES
PAINT		
P-1	PAINT	ALL EXPOSED STRUCTURAL AND MISC. STEEL, CONDUIT, PIPING AND MISC. ITEMS INSIDE HANGAR. SHERWIN-WILLIAMS ALL-SURFACE ACRYLIC, SW7006, EXTRA WHITE, SEMI GLOSS
P-2	PAINT	SHERWIN-WILLIAMS, SW7015, REPOSE GRAY, EGGSHELL FINISH; AT ALL INTERIOR WALLS AT OFFICE U.N.O.
P-3	PAINT	SHERWIN-WILLIAMS, SW7017, DORIAN GRAY, SEMI GLOSS FINISH; AT ALL INTERIOR H.M. DOOR FRAMES U.N.O.
P-4	PAINT	ALL EXTERIOR H.M. DOORS AND H.M. DOOR FRAMES; SEMI GLOSS FINISH; COLOR TO MATCH EXTERIOR METAL WALL PANEL
P-5	PAINT	ALL GWB CEILINGS AND SOFFITS; FLAT FINISH; PPG 1002-1 SILVER FEATHER
ST-1	STAIN	ALL INTERIOR FLUSH WOODS U.N.O.; MASONITE ASPIRO SERIES; STAIN COLOR: CANE
CEILING		
APC-1	ACOUSTICAL CEILING TILE	USG CEILING; MARS CLIMAPLUS ACOUSTICAL PANELS; 24"x24" SQUARE EDGE IN WHITE WITH USG DOWN DXDXL 15/16" ACOUSTICAL SUSPENSION IN WHITE.
MISCELLANEOUS		
PLAM-1	PLASTIC LAMINATE	WILSONART SILVER OAK PLY 8203K-28; ORIENT GRAIN IN SAME DIRECTION, TYPICAL

ROOM FINISH SCHEDULE

NUMBER	NAME	BASE	FLOORING	WALL FINISH				CEILING	REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL		
101	HANGAR		RF-1	P-1	P-1	P-1	P-1	P-1	SEE CEILING PLAN, FINISH PLAN AND SECTIONS FOR EXTENTS
102	LOBBY	PB-1	PT-1	P-2	P-2	P-2	P-2	ACT-1	
103	BREAK ROOM	PB-1	PT-1	P-2	P-2	P-2	P-2	ACT-1	
104	CORR	PB-1	PT-1	P-2	P-2	P-2	P-2	ACT-1	
105	RESTROOM	PB-1	PT-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	P-5	
106	RESTROOM	PB-1	PT-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	P-5	
107	CONFERENCE ROOM	PB-1	PT-1	P-2	P-2	P-2	P-2	ACT-1	
108	FUTURE								UNFINISHED SPACE



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



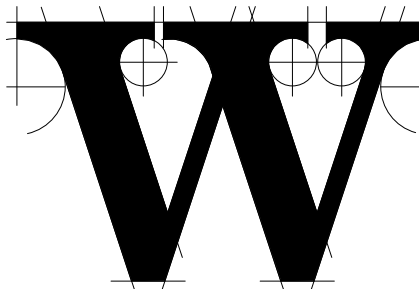
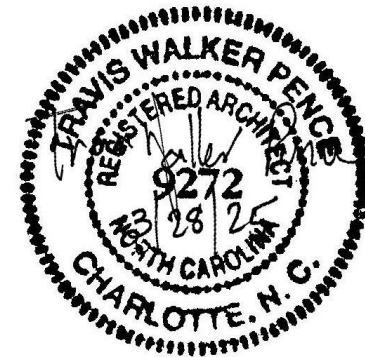
GENERAL NOTES - FINISH PLAN

- GC TO PROVIDE COMPLIANCE DATA THAT INTERIOR WALL AND CEILING FINISHES COMPLY WITH CLASSIFICATION B; FLAME SPREAD 26-75 AND SMOKE DEVELOPED 0-450 FOR VERTICAL EXITS, EXIT PASSAGeways, EXIT ACCESS CORRIDORS AND OTHER EXITWAYS.
- GC TO PROVIDE COMPLIANCE DATA THAT INTERIOR WALL AND CEILING FINISHES COMPLY WITH CLASSIFICATION C; FLAME SPREAD 75-200 AND SMOKE DEVELOPED 0-450 FOR ROOMS AND ENCLOSED SPACES.
- GC TO PROVIDE COMPLIANCE DATA FOR INTERIOR FLOOR FINISHES THAT SHOWS COMPLIANCE WITH NC 804.
- FLOOR FINISHES MUST MEET SLIP RESISTANCE REQUIREMENT OF 0.60 WET, AND BE A MINIMUM OF CLASS II PER NFPA 253.
- TRANSITION OF DIFFERING FLOORING MATERIALS BETWEEN ROOMS TO OCCUR AT THE CENTER OF THE DOOR LEAF.
- SEALANTS AND CAULKING ARE TO MATCH THE DOMINANT SURFACE IN WHICH THEY OCCUR U.N.O., SAMPLE OF SEALANTS ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- GC TO VERIFY ALL FINISHED WITH OWNER AND ARCHITECT PRIOR TO PROCUREMENT.
- IN AREAS WITH ANY PORTION OF EXPOSED STRUCTURAL ABOVE, THE WALL FINISHES SHALL EXTEND TO UNDERSIDE OF STRUCTURE.
- ALL UNIDENTIFIED COLORS AND FINISHES SHALL BE SELECTED AND APPROVED BY ARCHITECT THROUGH THE SUBMITTAL PROCESS.
- RECESSED WIREWAYS, ACCESS PANELS, GRILLES, ELECTRICAL PANELS, AND ALL OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, U.N.O.



Air Field Hangar Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-6747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.

P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.

P.O. Box 49, 3714 North Main St
Farmville, NC 27828

STRUCTURAL ENGINEER

STEWART
ENGINEERING

101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING

10200 Mallard Creek Rd. Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

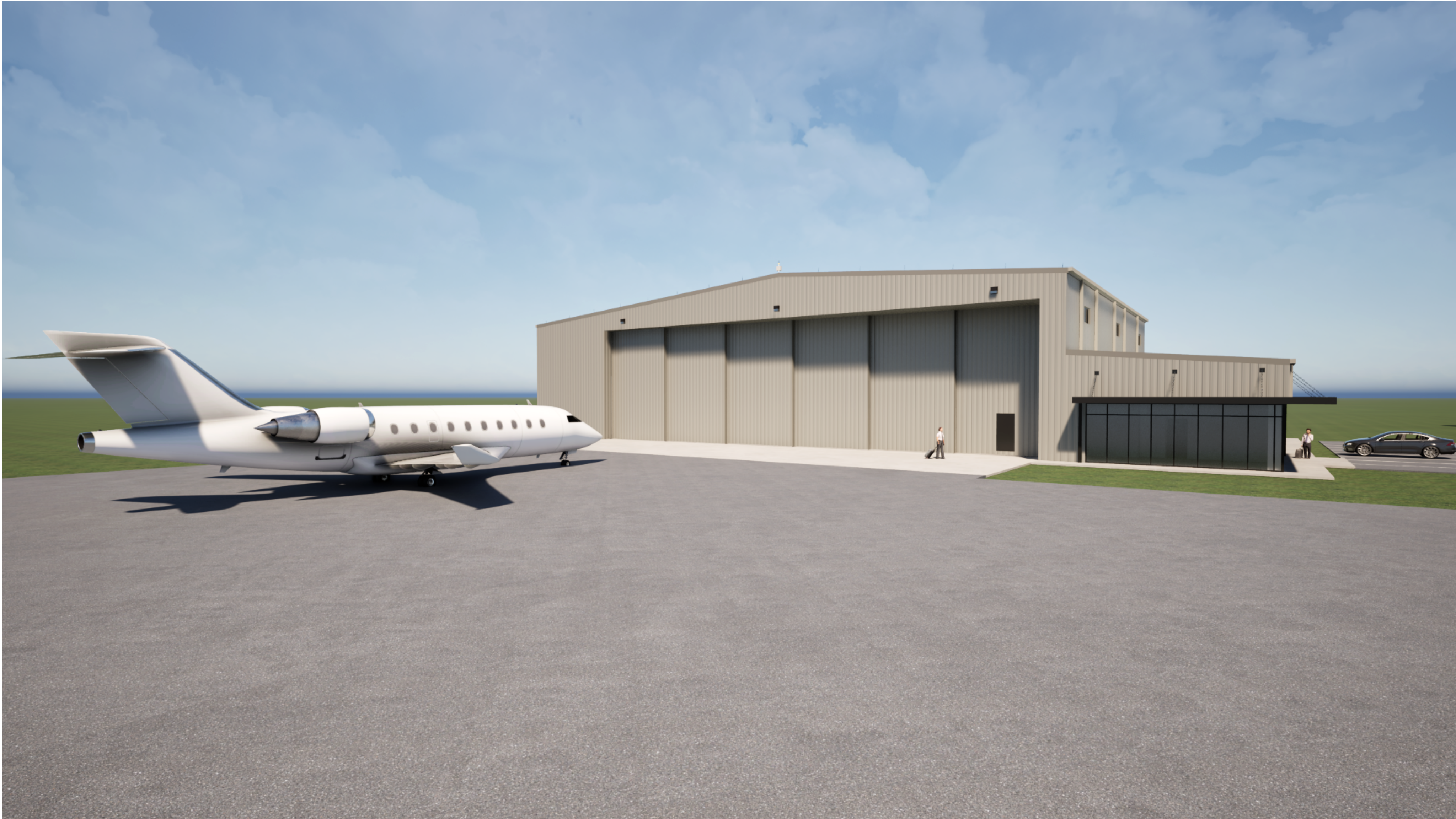
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

FINISH PLAN

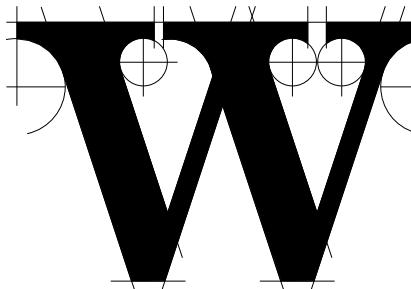
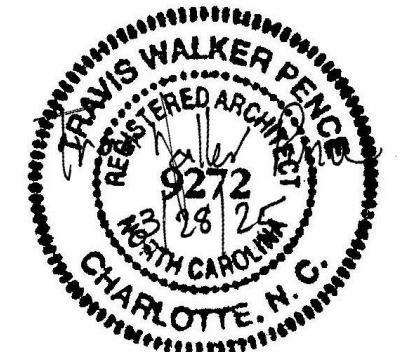
SHEET NUMBER

A-701



Air Field Hangar
Building

222 Airport Road,
Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

GENERAL CONTRACTOR

Daniels and Daniels
Construction Co., Inc.
P.O. Box 10337, Goldsboro, NC 27532

CIVIL ENGINEERING

McDAVID
ASSOCIATES, P.E.
P.O. Box 49, 3714 North Main St
Farmville, NC 27528

STRUCTURAL ENGINEER

STEWART
ENGINEERING

101 N. Tryon St., Suite 1400, Charlotte, NC 28202

MECHANICAL-ELECTRICAL-PLUMBING

SABER
ENGINEERING

10200 Mallard Creek Rd, Suite 105
Charlotte, NC 28262

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

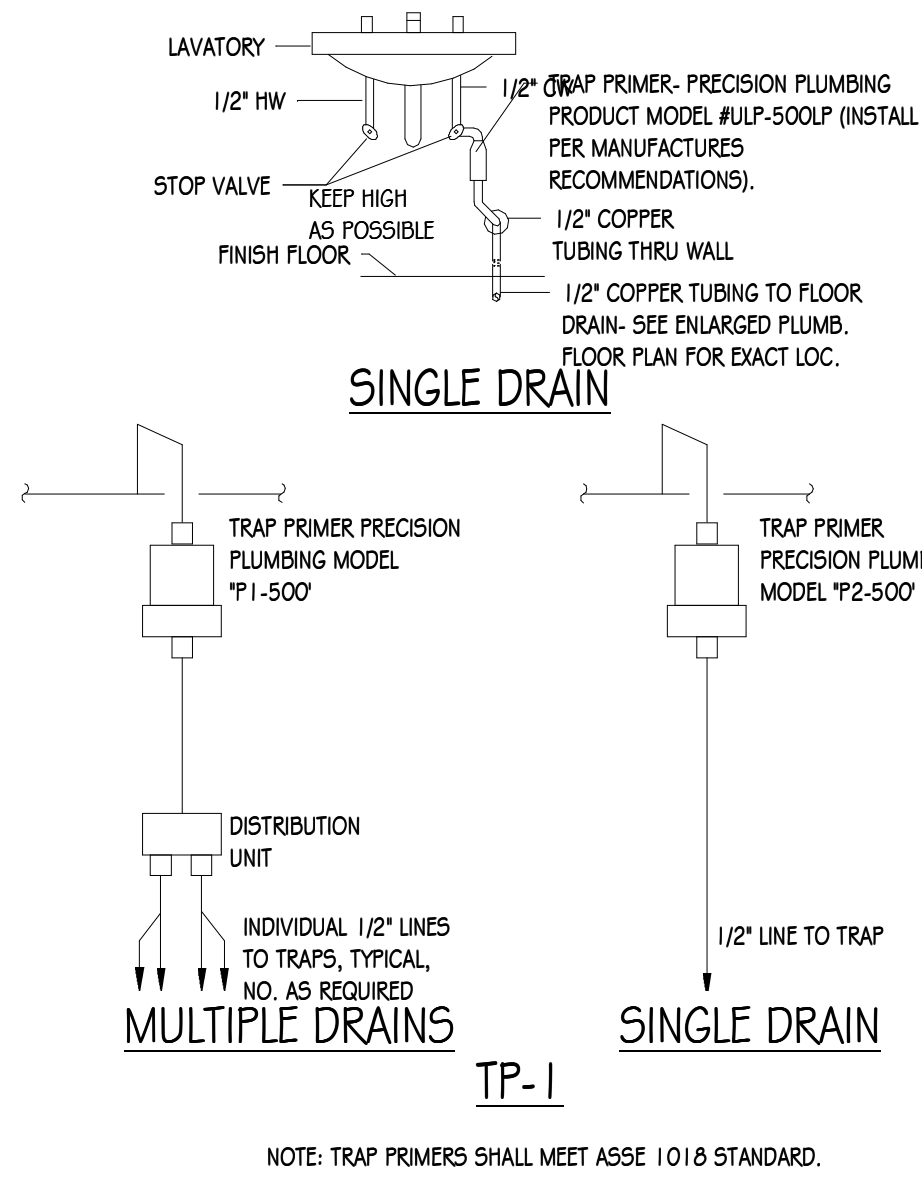
REVISIONS

DATE 03-28-2025
PROJECT NUMBER Project Number
SHEET TITLE

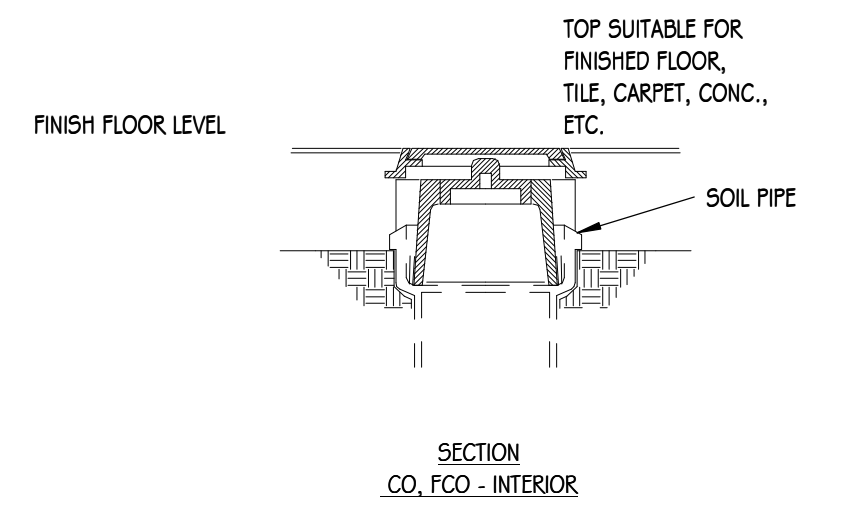
RENDERINGS

SHEET NUMBER

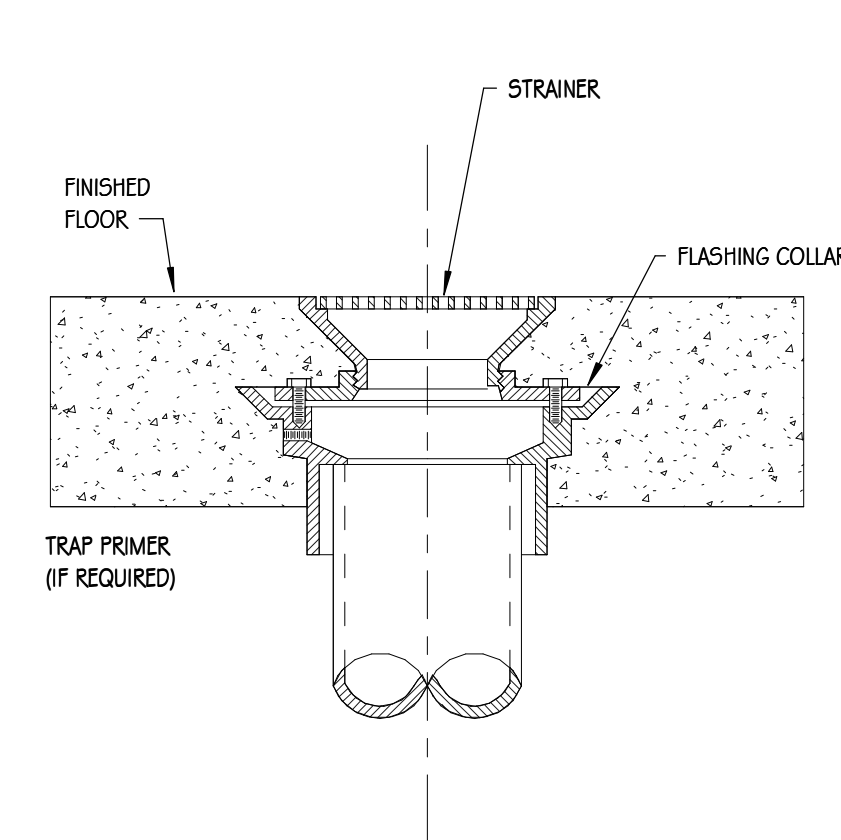
A-801



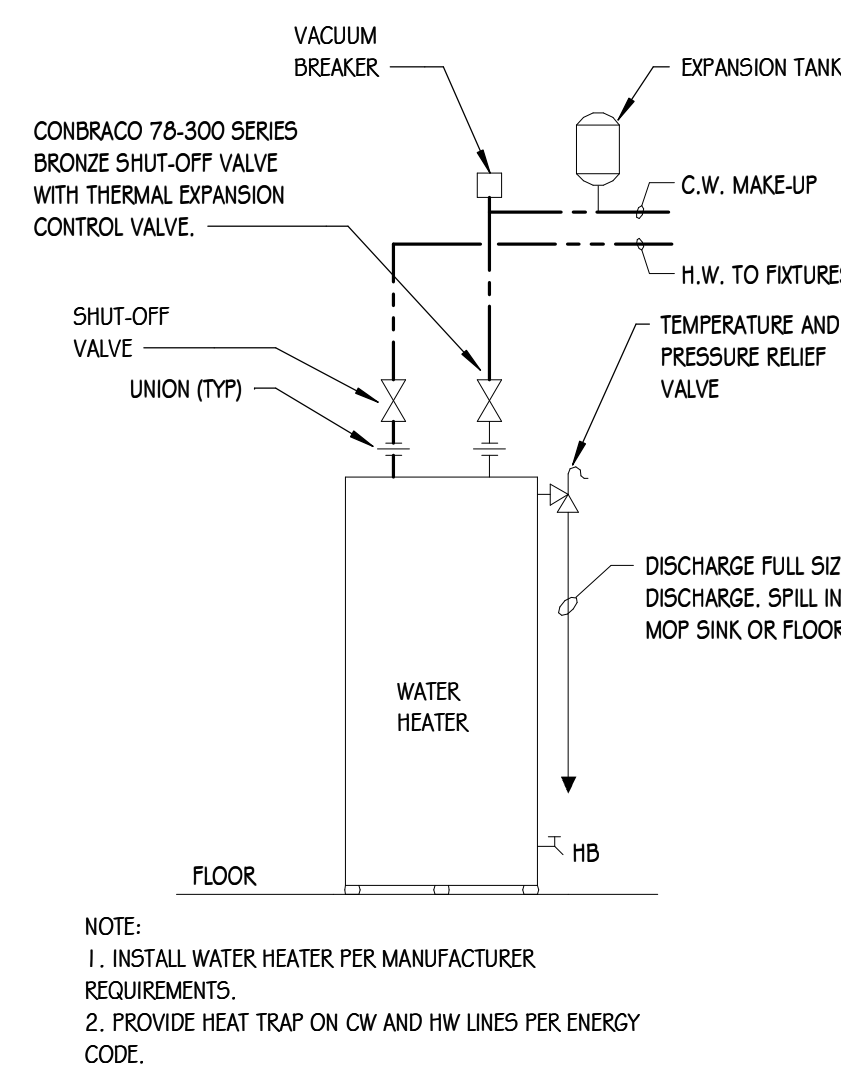
1 TRAP PRIMERS DETAIL
NOT TO SCALE



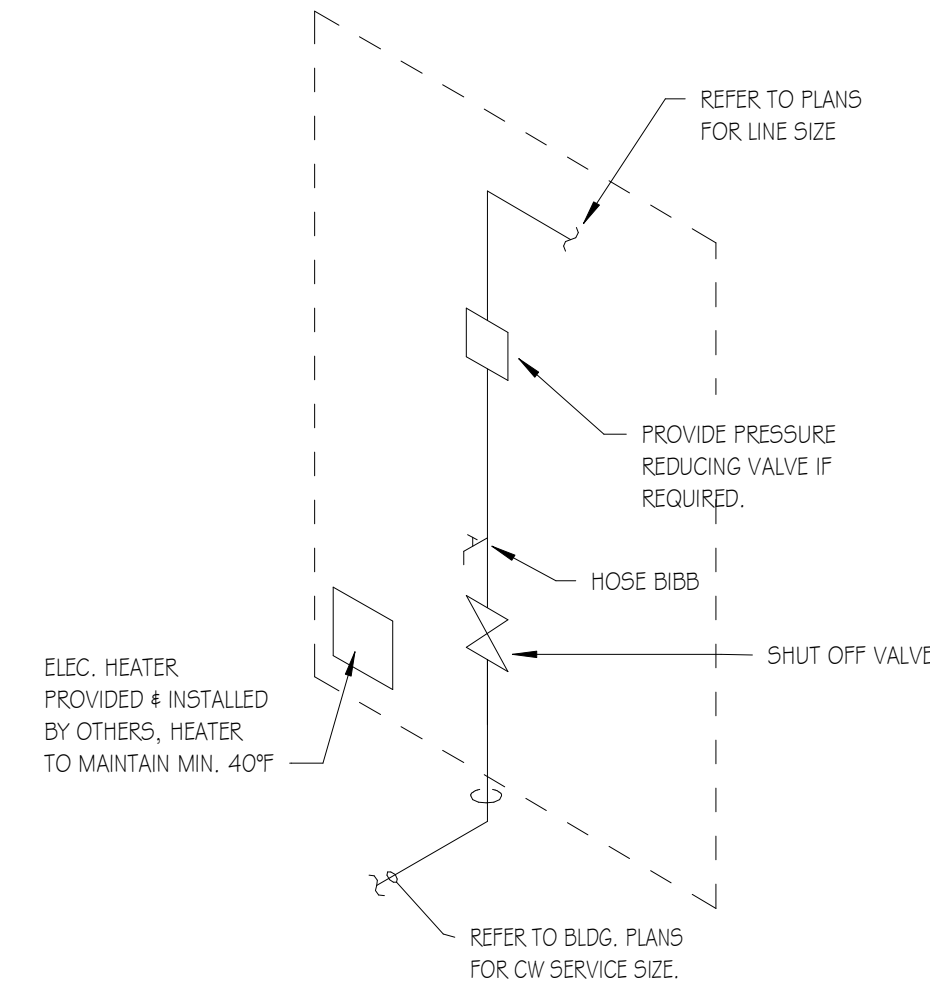
3 INTERIOR CLEANOUT DETAIL (FCO)
NOT TO SCALE



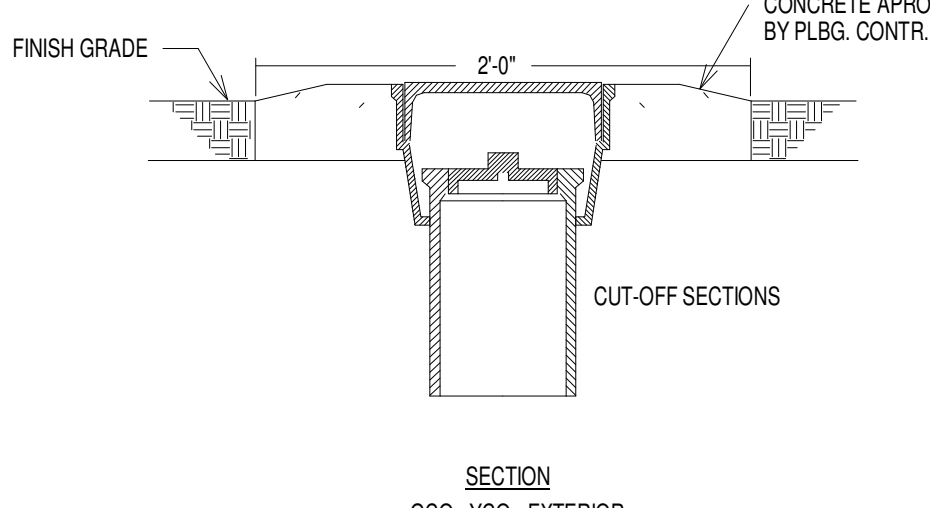
5 FLOOR DRAIN DETAIL (FD)
NOT TO SCALE



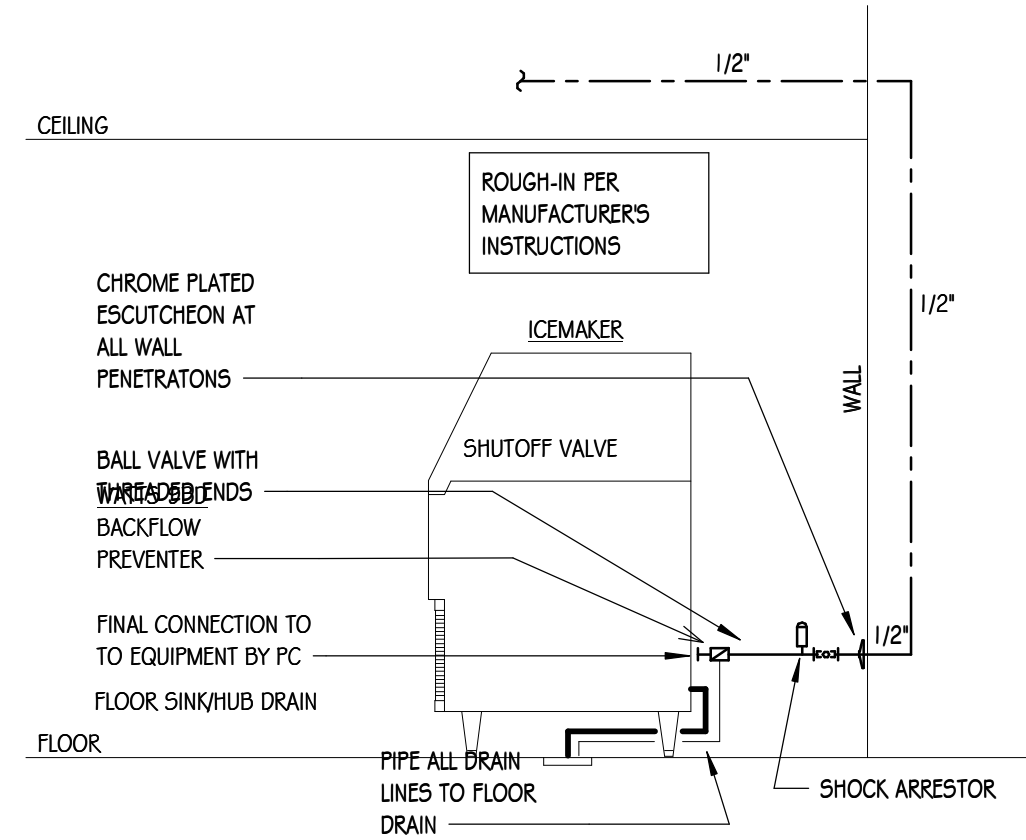
7 WATER HEATER DETAIL
NOT TO SCALE



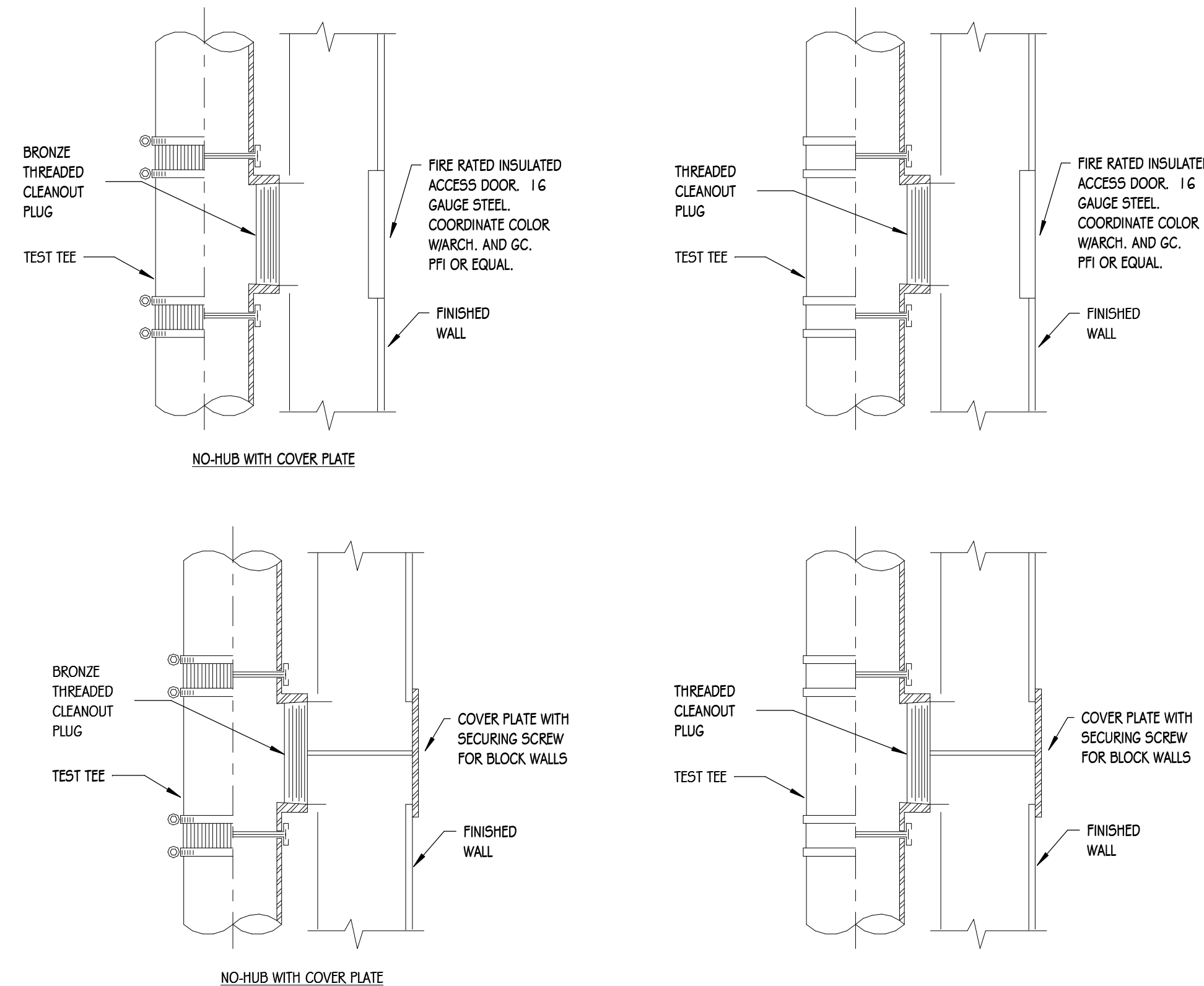
2 WATER ENTRY RISER DIAGRAM
NOT TO SCALE



4 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



6 ICE MAKER PIPING SCHEMATIC
NOT TO SCALE



8 WALL CLEAN-OUT (WCO)
NOT TO SCALE

PLUMBING LEGEND	
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	DOMESTIC 1 1/2" HOT WATER PIPING
---	DOMESTIC 1 1/2" HOT WATER PIPING
---	DOMESTIC 1 1/2" HOT WATER PIPING
---	VENT PIPING
---	WASTE (SANITARY SINK)
---	WASTE (GREASE)
---	GAS PIPING
---	ROOF LEADER
---	EMERGENCY ROOF LEADER
---	STORM PIPING UNDERSLAB
---	FULL PORT VALVE
---	CHECK VALVE
---	PIPE UP
---	PIPE DOWN
---	FLOOR SINK
---	FLOOR SINK
---	CONNECT TO EXISTING
---	FIRE SPRINKLER RISER

AW	AIR ADMITTANCE VALVE
ABV	ABOVE
ATF	ABOVE FINISHED FLOOR
CW	COLD WATER
DN	DOWN
E.C.	ELECTRICAL SUB-CONTRACTOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOOR SINK
G.C.	GENERAL CONTRACTOR
HB	HOT WATER
HD	HOT WATER
HW	HOT WATER
M.C.	MECHANICAL SUB-CONTRACTOR
P.C.	PLUMBING SUB-CONTRACTOR
V	VENT
W	WASTE

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS

- DRAWINGS AND RISERS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW REQUIRED FITTINGS AND OFFSETS REQUIRED FOR ACTUAL INSTALLATION.
- FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. SEE FUTURE SCHEDULE.
- FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, VENT, HOT AND COLD WATER PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT.
- STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- HOT AND COLD WATER SUPPLY PIPING AND DRAIN PIPING UNDER HANDICAPPED LAVATORIES SHALL BE INSULATED PER AMERICANS WITH DISABILITIES ACT, WITH FACTORY FABRICATED MICROBIAL PVC RESIN INSULATION.
- CEILING AREA HAS LIMITED SPACE. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED AND AVOID CONFLICT WITH OTHER TRADES.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION.
- PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU FIRE RATED WALLS AND FLOORS. PROVIDE A DEVICES (OR SYSTEMS) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING.

- FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
- PERFORM ALL EXCAVATION AND BACKFILL WORK NECESSARY TO ACCOMPLISH INDICATED PLUMBING SYSTEMS INSTALLATION. VERIFY THE LOCATIONS OF ANY WATER, DRAINAGE, GAS, SEWER, ELECTRIC, AND TELEPHONE LINES WHICH MAY BE ENCOUNTERED IN THE EXCAVATION. UNDERPIN AND SUPPORT ALL LINES.
- PIPING IN A PLUMBING SYSTEM SHALL BE INSTALLED SO AS TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE. WHERE NECESSARY, PROVISIONS SHALL BE MADE TO PROTECT PIPING FROM DAMAGE.
- ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE PIPE SHALL BE BUILT INTO THE FOUNDATION WALL.
- PLUMBING PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS, AND/OR THE ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER. COORDINATE FLASHING WITH THE GENERAL CONTRACTOR.
- DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFA 255) METHOD AND SHALL BE PLUM RATED.

PIPE MATERIALS

- DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:
BELOW SLAB: TYPE "K" COPPER.
ABOVE SLAB: CPVC TONGUE GUARD GOLD.
ALTERNATE: TYPE "K" COPPER MUST BE USED IN MECHANICAL WATER HEATER ROOMS.
ALTERNATE: PEBA-1 (PONDOR) (OR EQUAL) WITH 1/2" O.D. (OR EQUAL) FITTINGS WITHIN GUESTROOMS.

- WASTE AND VENT PIPING SHALL BE AS FOLLOWS:
BELOW SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS.
ABOVE SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS.
1/2" INSULATION IS REQUIRED ON ALL HORIZONTAL RUNS ABOVE NOISE SENSITIVE AREAS.

- STORM PIPING SHALL BE AS FOLLOWS:
BELOW SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS.
ABOVE SLAB: SERVICE WEIGHT NO-HUB CAST IRON PIPING WITH HEAVY DUTY COUPLINGS. INSULATION IS REQUIRED ON ALL ROOF DRAIN BODIES AND HORIZONTAL RUNS (ABOVE SLAB). INSULATE WITH 1/2" CLOSED-CELL ELASTOMERIC MATERIAL.
ALTERNATE ABOVE SLAB: SCHEDULE 40, PVC SOLID WALL PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS. INSULATION IS REQUIRED ON ALL ROOF DRAIN BODIES AND HORIZONTAL RUNS (ABOVE SLAB). INSULATE WITH 1/2" CLOSED-CELL ELASTOMERIC MATERIAL.

PIPE IDENTIFICATION

- PIPE IDENTIFICATION SHALL MATCH THE FACILITY'S EXISTING STANDARD. IF NO STANDARD EXISTS, THEN THE PIPE IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI A3.1.
- PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP-AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.

PROPANE GAS PIPING NOTES

- WORK TO INCLUDE PIPING FROM GAS REGULATOR TO ALL GAS FIRED EQUIPMENT.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REQUIREMENTS AND THE PROVISIONS OF NFPA-54 AND NFPA-58.
- THE CONTRACTOR SHALL SUPPLY ALL PERMITS AND LICENSES REQUIRED FOR THE WORK AND FOR ALL INSPECTIONS REQUIRED.
- PIPE 3" AND SMALLER SHALL BE SCHEDULE 40 STEEL WITH THREADED MALLEABLE FITTINGS.
- VALVES SHALL BE GAS COCKS MANUFACTURED BY NIBCO.
- ALL GAS PIPING LOCATED UNDER THE FLOOR SLABS SHALL BE INSTALLED IN CONDUIT OR AS REQUIRED BY CODE.
- ALL PIPING EXPOSED TO THE OUTDOORS OR RUN IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL.

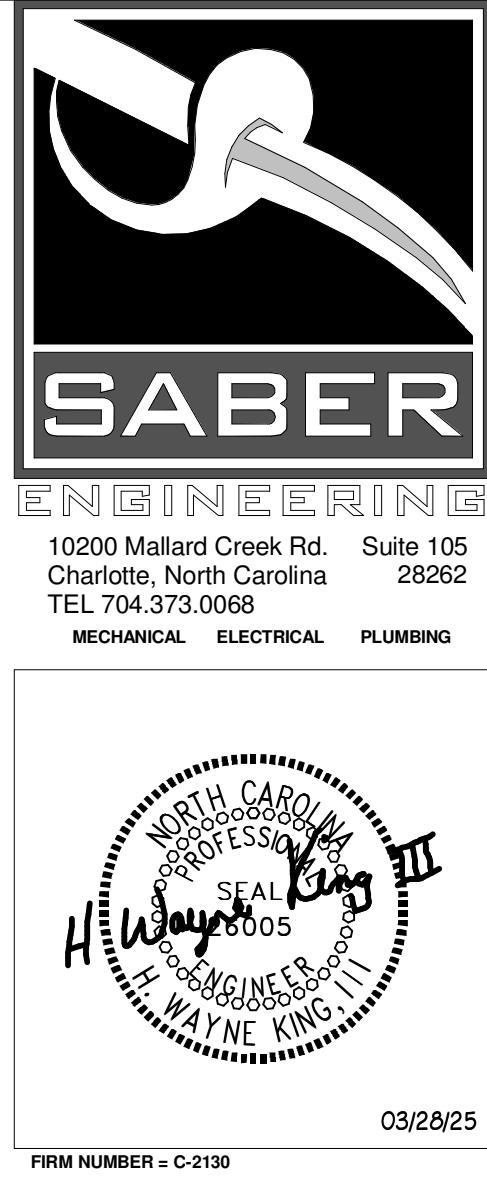
BUILDING PROPANE GAS DEMAND

DESCRIPTION	CFH
UH-1	75
UH-2	75
UH-3	75
UH-4	75
TOTAL MBH	300

PIPE SIZING BASED ON A 200 FT DEVELOPED LENGTH @ 10.0 INLET PSI PRESSURE, 1.0 PSI PRESSURE DROP @ 1.50 SPECIFIC GRAVITY PER TABLE 402.4(25), 2018 INTERNATIONAL FUEL GAS CODE.

PLUMBING SHEET INDEX

Sheet Number	Sheet Name
P-001	PLUMBING GENERAL NOTES, DETAILS, & LEGEND
P-002	PLUMBING SCHEDULES
P-101	PLUMBING FLOOR PLAN
P-102	PLUMBING RISER DIAGRAM - WASTE & VENT



Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/14/25
PROJECT NUMBER Project Number
SHEET TITLE

PLUMBING
GENERAL NOTES,
DETAILS, &
LEGEND

SHEET NUMBER

P-001

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE																			
MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FACET/VALVE				FACET/VALVE		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	REMARKS
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
L-1	LAVATORY	SINGLE COMPT	NAMEEK'S	037000-U	VITREOUS CHINA	WALL MOUNTED RECTANGLE	DELTA 591TF1220	CENTERSET	HANDS FREE	4"	GRID	1 1/2"	McGUIRE 175 WITH FW2125	2"	1 1/2"	1/2"	1/2"	COUNTER TOP	MOUNT AT ADA HEIGHT
S-1	KITCHEN SINK	SINGLE COMPT	ELKAY	LRAD-222260	STAINLESS STEEL	6" DEEP 3-HOLE HANDICAPPED	DELTA 440-WF	9" SWING	SINGLE LEVER	8"	K	1 1/2"	McGUIRE 1G5	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER TOP	PROVIDE WITH ELKAY LK-35 AND IN-SINK-ERATOR MODEL 333 DISPOSAL 1/3HP, 120V
MS-1	MOP SINK	FLOOR MOUNTED	ULINE	H-10304	STAINLESS STEEL	-	ULINE H-10305	THREADED	TWO HANDLES	8"	-	-	-	3"	1 1/2"	3/4"	3/4"	FLOOR	
WC-1	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	211AA	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	McGUIRE 1B5	3"	2"	1/2"	-	FLOOR	PROVIDE WITH OPEN FRONT SEAT WITH NO LID
SH-1	SHOWER	PREFAB	FLORESTONE	40-40H	FIBERGLASS	ADA x 40"	SYMMONS PRESS. BALANCE	-	SINGLE LEVER	-	INTEGRAL	2"	-	2"	1 1/2"	1/2"	1/2"	FLOOR	SEAT, GRAB BAR, PRESS. BAL. VALVE, HAND SPRAY, HOSE, SLIDE BAR, & DRAIN.
RB-1	REFRIGERATOR BOX	TOP SUPPLY	OATEY	38574	PVC	RECESSED BOX	-	-	-	-	-	-	-	-	-	1/2"	-	WALL	SHUT-OFF VALVE AND THREADED CW CONNECTION.
FD	FLOOR DRAIN	SQUARE TOP	J.R. SMITH	2010	CAST IRON	NIKALOY TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	PROVIDE WITH TRAP PRIMER CONNECTION WHERE INDICATED.
WCO	WALL CLEAN-OUT	SQUARE TOP	J.R. SMITH	4472	CAST IRON	S.S. COVER	-	-	-	-	-	-	-	-	-	-	-	WALL	
FCO	FLOOR CLEAN-OUT	SQUARE TOP	J.R. SMITH	4040	CAST IRON	NICKEL BRONZE TOP	-	-	-	-	-	-	-	-	-	-	-	FLOOR	
ES-1	EYE WASH	FLOOR MOUNTED	GUARDIAN	H-5795	-	-	GUARDIAN G6020	-	-	-	-	-	-	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER TOP	CONNECT TO A TEPID CLEAN WATER SOURCE
HB	HOSE BIBB	STANDARD	WOODFORD	24P	CAST BRASS	WALL FAUCET	-	-	LOOSE KEY	-	-	-	-	-	-	1/2"	-	WALL	
FPHB	HOSE BIBB	FREEZE PROOF	WOODFORD	B67	CAST BRASS	RECESSED BOX	-	-	-	-	-	-	-	-	-	3/4"	-	WALL	
GCO	ROUND TOP	DOME TOP	J.R. SMITH	4240	CAST IRON	CAST IRON TOP	-	-	-	-	-	-	-	-	-	-	-	GRADE	PROVIDE WITH 24"x24"x8" THICK CONCRETE PAD AT GRADE.
EW-1	WATER COOLER	DOUBLE STATION W/ BOTTLE FILLER	ELKAY	LZSTL8W55P	STAINLESS STEEL	ADA COMPLIANT	-	-	-	-	-	1 1/2"	McGUIRE 1G5	2"	1 1/2"	1/2"	-	WALL	MOUNT AT ADA HEIGHT
NOTES: 1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE).																			

WATER HEATER SCHEDULE																
MARK	FIXTURE	TYPE	LOCATION	MANUFACTURER	MODEL NO.	SIZE (GAL)	RECOVERY (GPH)	TEMPERATURE RISE (°F)	INPUT (BTUH)	EFFICIENCY (%)	WATER TEMPERATURE (°F)	ELECTRICAL			MOUNTING	REMARKS
												VOLTS	PHASE	KW		
WH-1	WATER HEATER	ELECTRIC	-	BRADFORD WHITE	E32-S05-3	50	56	100°F	-	-	140°F	208	3ø	13.5	FLOOR	3/4" NPT FEED CONNECTIONS, PROVIDE DRAIN PAN & CONVERSION KIT #415-43942-43
<div>NOTES:</div> <div>1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE).</div>																

SHOCK ARRESTOR SCHEDULE		
P.D.I. SIZE	FIXTURE UNITS	MANUFACTURER OR EQUAL
SAA'	1 - 11	ZURN, SMITH, PPL, SIOUX-CHIEF
SAB'	12 - 32	•
SAC'	33 - 60	•
SAD'	61 - 113	•
SAE'	114 - 154	•
SAP'	155 - 330	•
LOCATE SHOCK ARRESTORS IN AN ACCESSIBLE LOCATION, OR PROVIDE SIOUX-CHIEF SHOCK ARRESTORS ONLY. PROVIDE SHOCK ARRESTORS AS INDICATED PER SCHEDULE. SHOCK ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.		

INSULATION SCHEDULE		
SERVICE TYPE	PIPE SIZES	INSULATION THICKNESS
DOMESTIC HW & CIRCULATION	1/2" - 1 1/4"	1"
DOMESTIC HW & CIRCULATION	1 1/2" - 4"	1 1/2"
DOMESTIC COLD WATER	1/2" - 1 1/4"	1/2"
DOMESTIC COLD WATER	1 1/2" - 4"	1"
INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH x SQ. FT.		



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

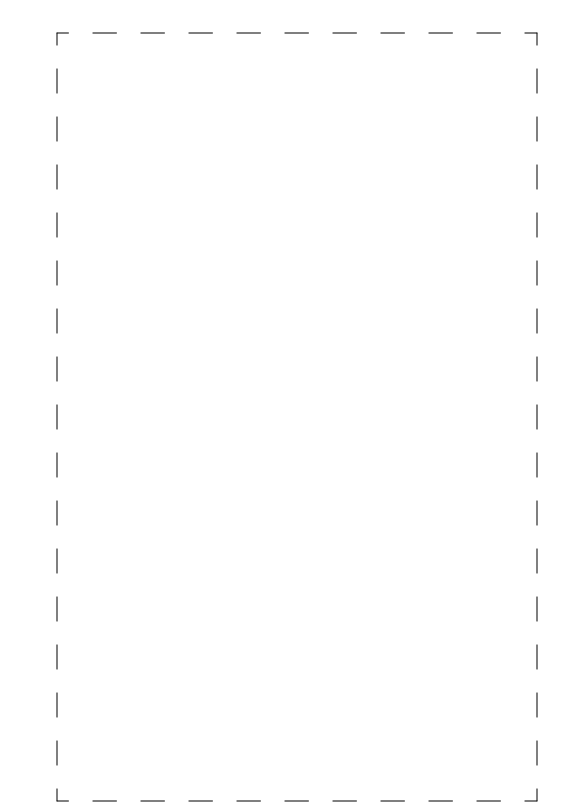
MECHANICAL ELECTRICAL PLUMBING



03/28/25
FIRM NUMBER - C-2130



Air Field Hangar Building
222 Airport Road, Kenansville, NC 28349



CONSULTANT DISCIPLINE
CONSULTANT NAME

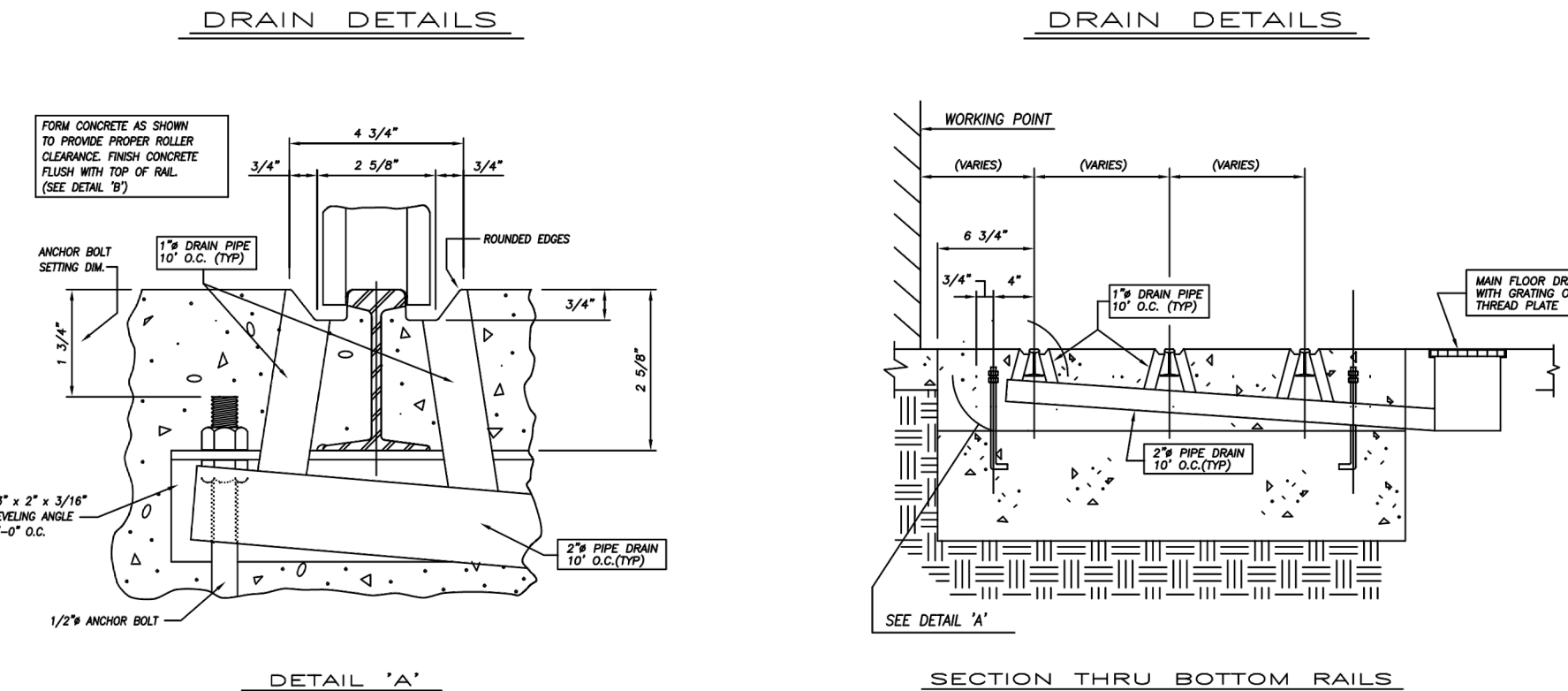
COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/28/25
PROJECT NUMBER Project Number
SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER
P-002



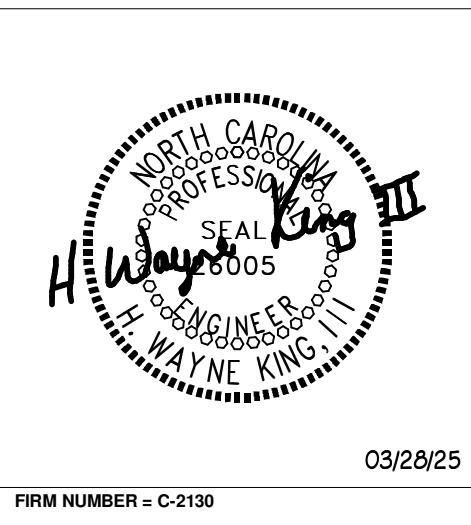
3 TRACK DRAIN DETAIL
NOT TO SCALE

TAGGED NOTES - THIS SHEET	
Number	Note
1	EXPOSED 1" CW UP. PROVIDE BLDG. MAIN SHUT-OFF VALVE IN THE VERTICAL. SEE DETAIL 2P-001.
2	HEAVY TRAFFIC RATED TRENCH DRAIN. NORSTAR INDUSTRIES U-DRAIN AND U-DRAIN SUMP OR APPROVED EQUAL. COORDINATE WITH GC EXACT LENGTH AND SIZE.
3	4" W. STUB-UP FOR FUTURE TENANT CONNECTION.
4	1/2" CW DROPS. EXTEND PIPING TO S-1. BELOW COUNTERTOP AS NEEDED.
5	1/2" G PIPING BELOW GROUND CONT'D TO PROPANE TANK (BY OTHERS). COORDINATE REGULATOR LOCATION WITH LOCAL UTILITY COMPANY PRIOR TO WORK COMMENCEMENT.
6	3/4" CW ON TO HB.
7	ICE MAKER (BY OTHERS). SEE DETAIL 6P-001.
8	ROUTE 1/2" HW & 1/2" CW TO MIXING VALVE TO DELIVER TEMID WATER AT ES-1. PROVIDE SHUT-OFF VALVE UPSTREAM OF ES-1 FOR MAINTENANCE PURPOSES. IDENTIFY EYEFACE WASH LOCATION WITH HIGHLY VISIBLE SIGN.
9	3" VENT FROM BELOW FINISHED FLOOR FOR COMBINATION WASTE AND VENT ROUTED AGAINST EXTERIOR WALL UP TO 4" SIDEWALL VTR. COORDINATE BUMP OUT LOCATION WITH GC TO CONCEAL PIPE RISER.
10	OIL INTERCEPTOR INSTALLED BELOW GRADE ON SITE. SEE CIVIL FOR EXACT LOCATION. INSTALL AS INDICATED BY MANUFACTURER INSTRUCTIONS. MODEL: STREM OS-100-S5 W/ SLICK STICK ALARM.
11	SLICK STICK ALARM TO BE INSTALLED ON EXTERIOR WALL. COORDINATE EXACT LOCATION WITH E.C.
12	2" CW FROM HANGAR DOOR TRACK DRAIN. HANGAR DOOR TRACK DRAIN SYSTEM PROVIDED BY HANGAR DOOR CONSULTANT. SEE TRACK DRAIN DETAIL ON THIS SHEET. FIELD COORDINATE/VERIFY EXACT DRAIN CONNECTIONS WITH CONSULTANT.



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

MECHANICAL ELECTRICAL PLUMBING



FIRM NUMBER = C-2130

03/26/25



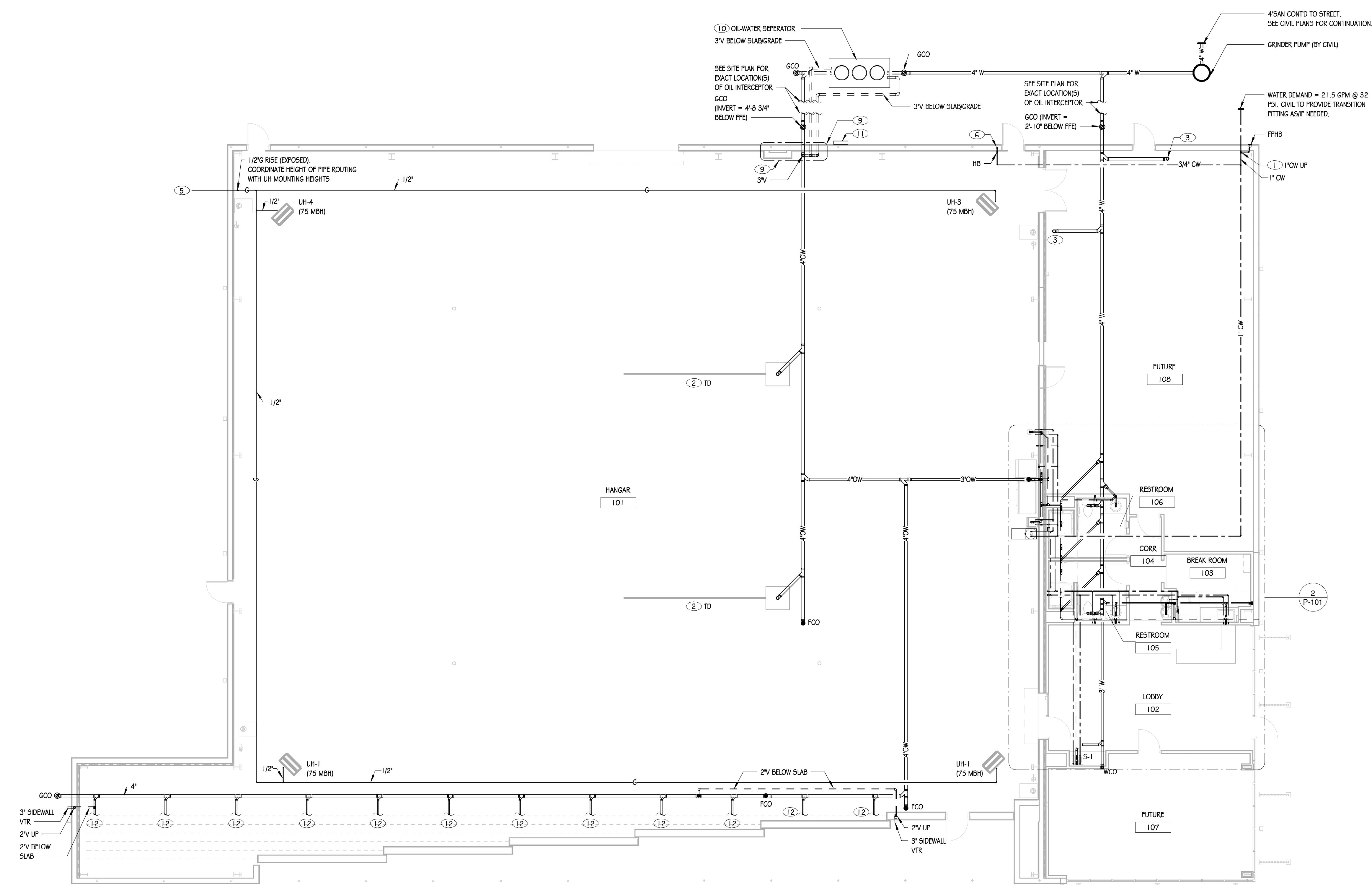
Air Field Hangar
Building

222 Airport Road, Kenansville,
NC 28349

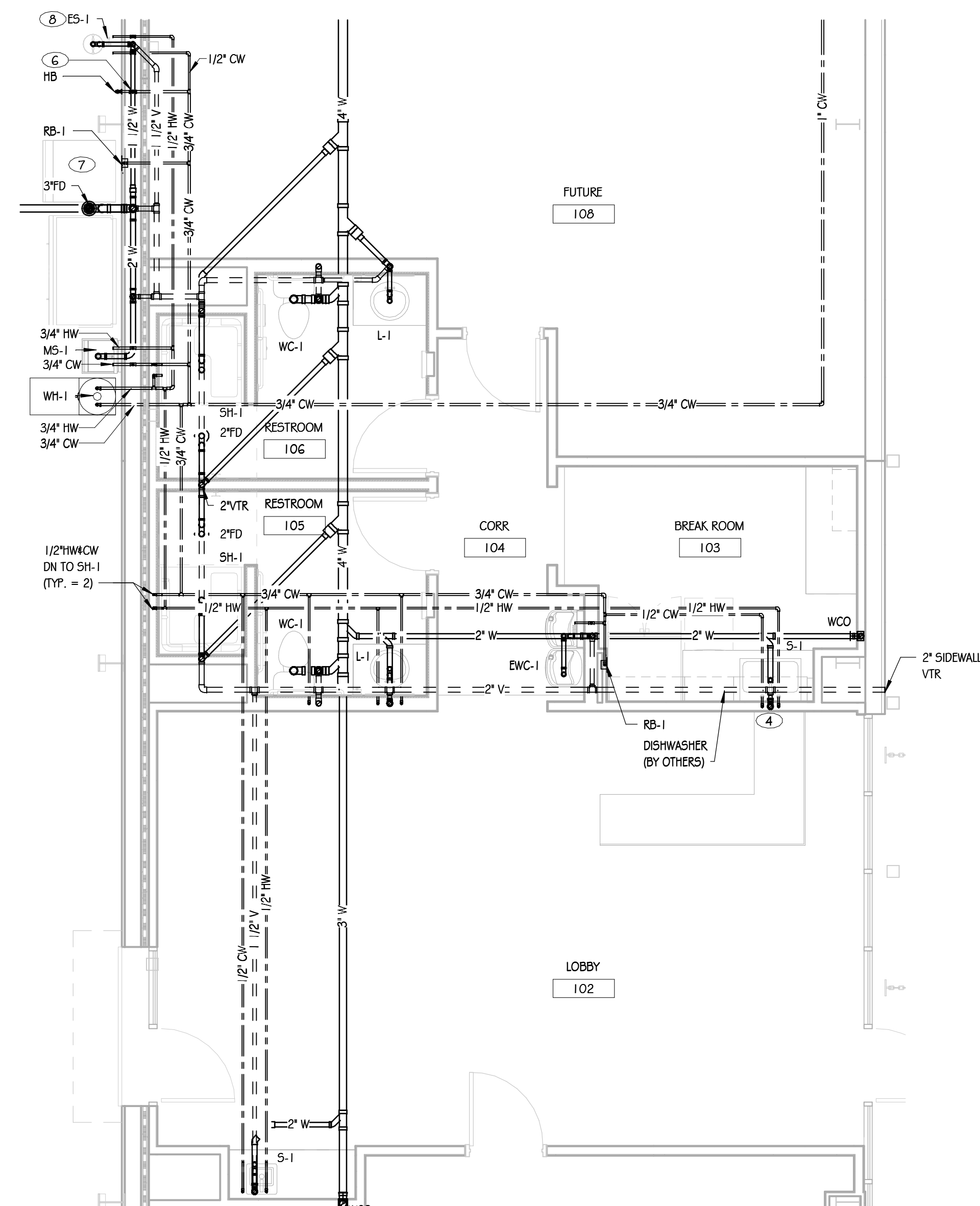


PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME



1 PLUMBING FLOOR PLAN
1/8" = 1'-0"



2 ENLARGED PLUMBING PLAN
1/4" = 1'-0"

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/14/25
PROJECT NUMBER Project Number
SHEET TITLE

PLUMBING
FLOOR PLAN

SHEET NUMBER
P-101



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

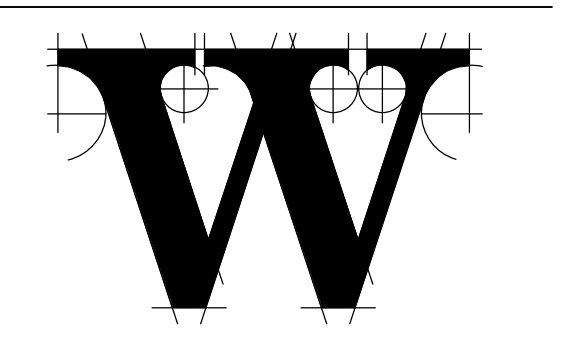
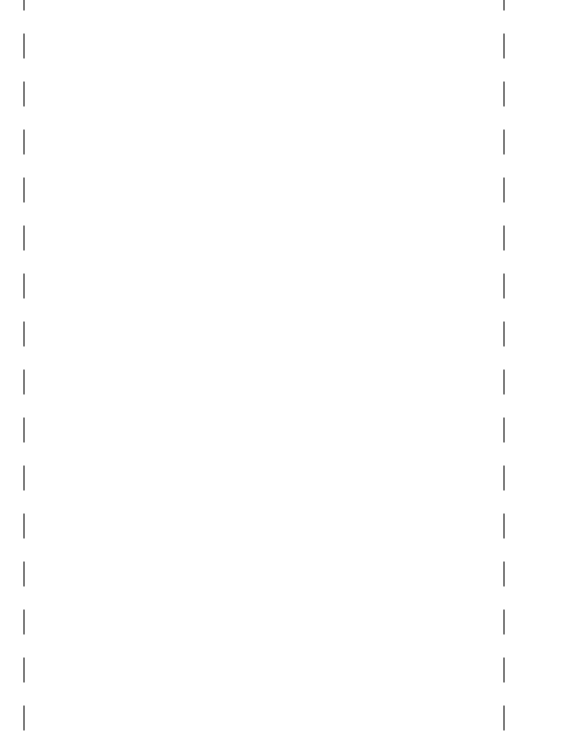


03/26/25
FIRM NUMBER - C-2130



Air Field Hangar Building

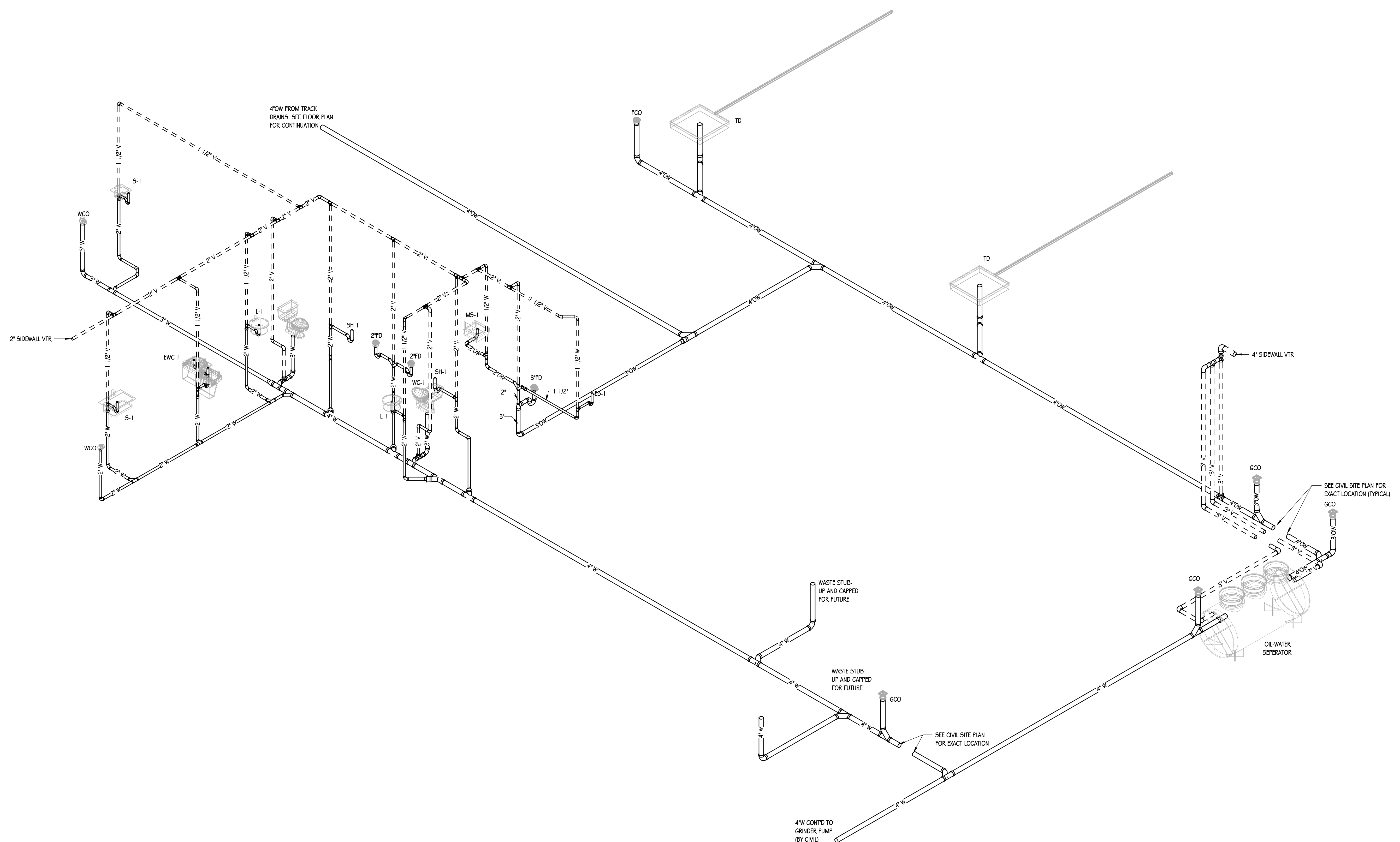
222 Airport Road, Kenansville, NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE

CONSULTANT NAME



1 PLUMBING RISER DIAGRAM - WASTE & VENT

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/14/25
PROJECT NUMBER Project Number
SHEET TITLE

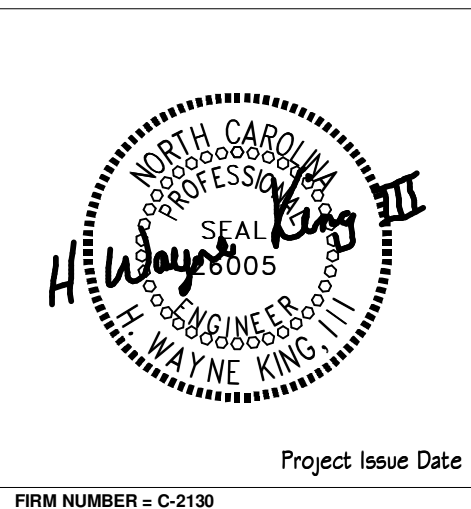
PLUMBING RISER DIAGRAM - WASTE & VENT

SHEET NUMBER
P-102



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

MECHANICAL ELECTRICAL PLUMBING



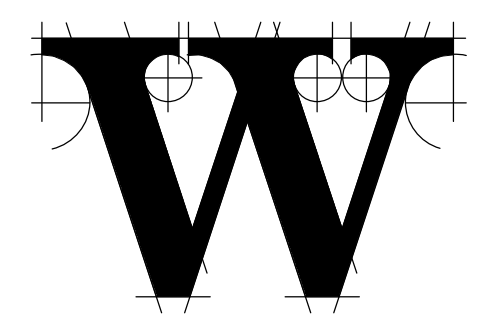
Project Issue Date

FIRM NUMBER - C-2130



Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME

HVAC GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURERS DIRECTIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
- SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICES FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT.
- LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
- PROVIDE MANUFACTURERS RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED. CONCEALED SHEET METAL DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH DUCT LINER (R-VALUE = 5). THE FIRST 15' FROM THE AIR HANDLER SHALL BE INTERNALLY LINED. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C-665.
- CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVE WITH COMPLETE BALANCE REPORT. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
- AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE U.L. ASSEMBLY.
- PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
- ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 1'-0" FROM ALL EXHAUST LOCATIONS.

- ALL ACTUATORS ON MOTORIZED DAMPERS, SMOKE DAMPERS, AND FIRE-SMOKE DAMPERS ARE TO BE LOW VOLTAGE UNLESS OTHERWISE NOTED.
- REFER TO APPENDIX B FOR SITE SEISMIC CLASSIFICATION. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES (OR EQUAL) & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQUIRED BY APPLICABLE CODES FOR THE LOCAL OF THIS PROJECT. SEISMIC RESTRAINTS FOR SEISMIC CLASSES D, E, AND F SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO INSTALLATION.
- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED.
- ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. RUNOUTS FROM MAINBRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAX 1'0" FLEX PER RUNOUT.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTROL LINES FROM THE CONDENSER TO THE AIR HANDLING UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURERS REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO SPLIT SYSTEM UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
- OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1/2" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
- REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES.
- MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK IN ATTIC TO BE INSULATED WITH A MINIMUM OF R-8 PER NCECC SECTION C403.2.9.
- PENETRATIONS OF RATED WALLS, PARTITIONS AND FLOORS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NONCOMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- MC SHALL PREPARE ALL EXPOSED DUCT, GRILLES, PIPING, AND UNITS FOR PAINTING. GC WILL BE RESPONSIBLE FOR PAINTING.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

ENERGY REQUIREMENTS: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

PREScriptive ☒ PERFORMANCE ☐ ENERGY COST BUDGET ☐

CLIMATE ZONE 3

THERMAL ZONE WINTER DRY BULB 23
SUMMER DRY BULB 91

INTERIOR DESIGN CONDITIONS WINTER DRY BULB 70
SUMMER DRY BULB 75
RELATIVE HUMIDITY 50

BUILDING HEATING LOAD (MBH) -

BUILDING COOLING LOAD (MBH) -

MECHANICAL SPACING CONDITIONING SYSTEM UNITARY

DESCRIPTION OF UNIT HEATING EFFICIENCY SEE SCHEDULES
COOLING EFFICIENCY SEE SCHEDULES
HEAT OUTPUT OF UNIT SEE SCHEDULES
COOLING OUTPUT OF UNIT SEE SCHEDULES

BOILER TOTAL BOILER OUTPUT, IF OVERSIZED, STATE REASON. NA
CHILLER TOTAL CHILLER OUTPUT, IF OVERSIZED, STATE REASON. NA

LIST EQUIPMENT EFFICIENCIES SEE SCHEDULES

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) SEE SCHEDULES

MOTOR HORSEPOWER SEE SCHEDULES
NUMBER OF PHASES SEE SCHEDULES
MINIMUM EFFICIENCY SEE SCHEDULES
MOTOR TYPE SEE SCHEDULES
NUMBER OF POLES SEE SCHEDULES

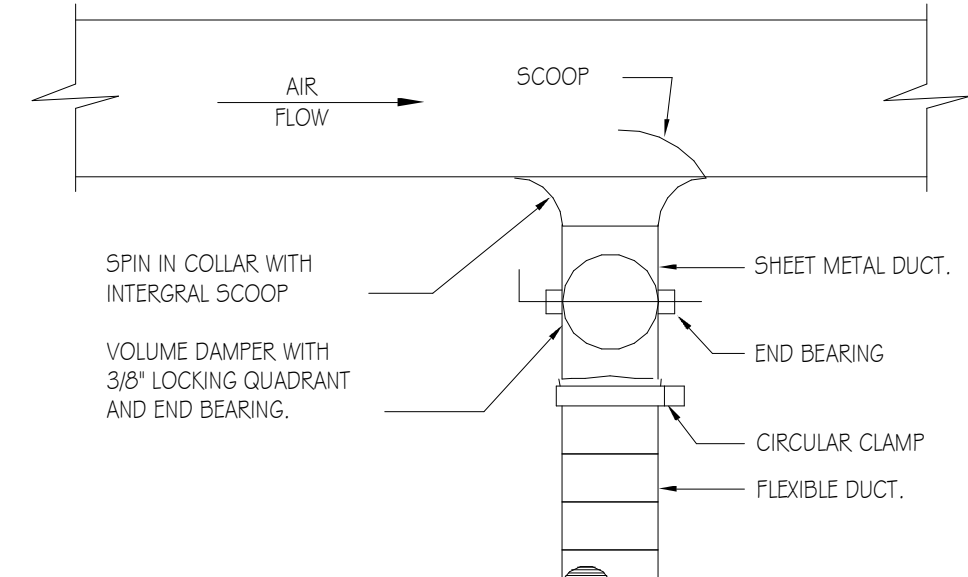
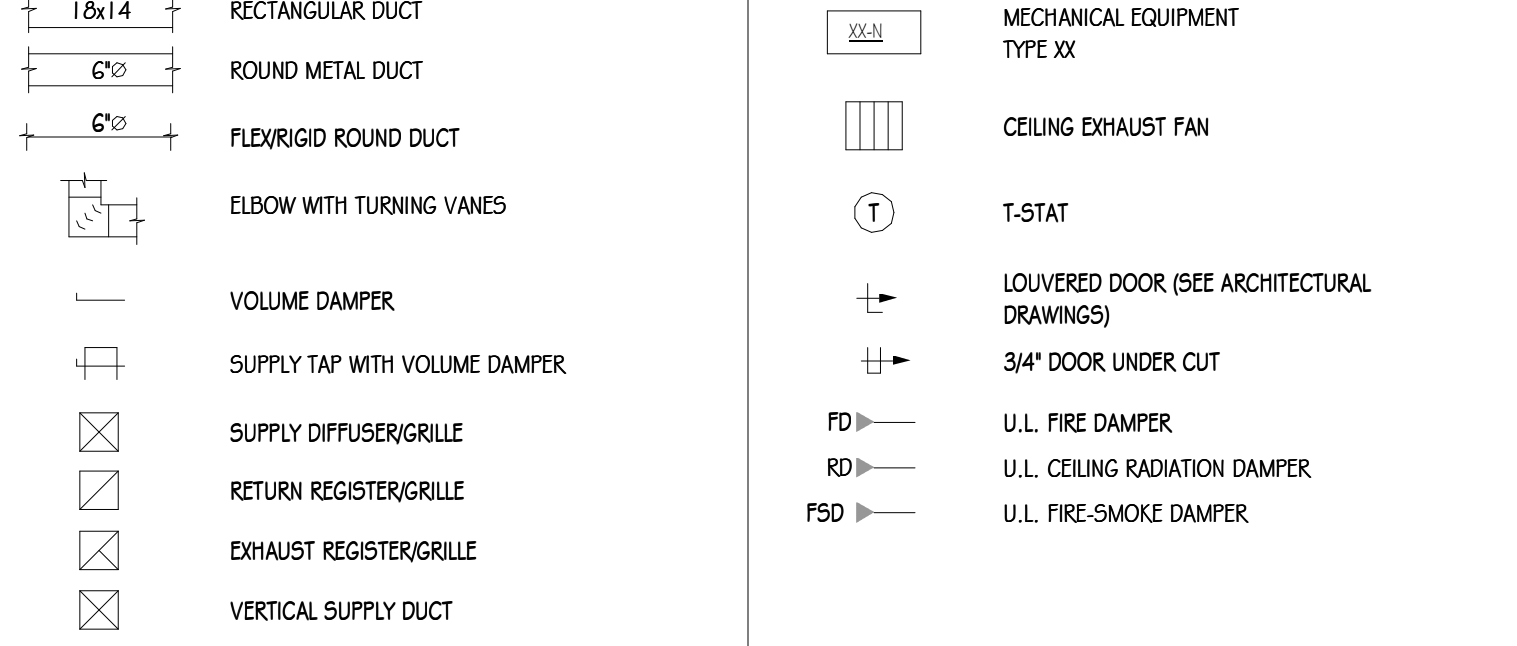
DESIGNERS STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE N.C.S. ENERGY CODE.

SIGNED: *H. Wayne King III*

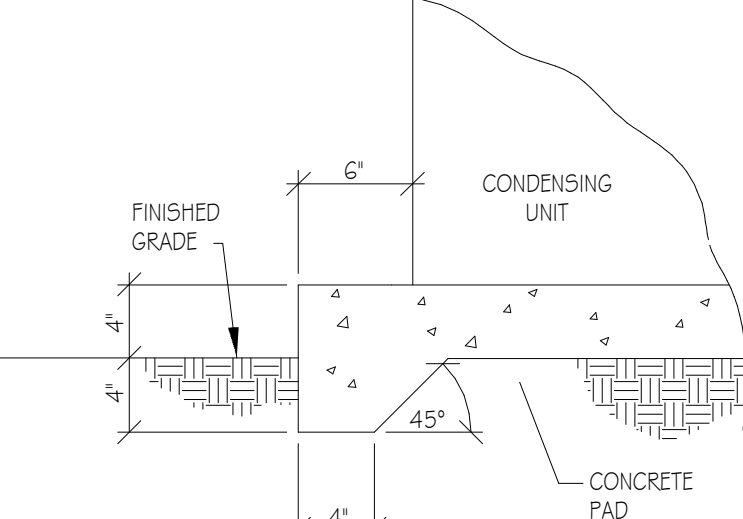
NAME: H. WAYNE KING III, P.E.

TITLE: MECHANICAL ENGINEER

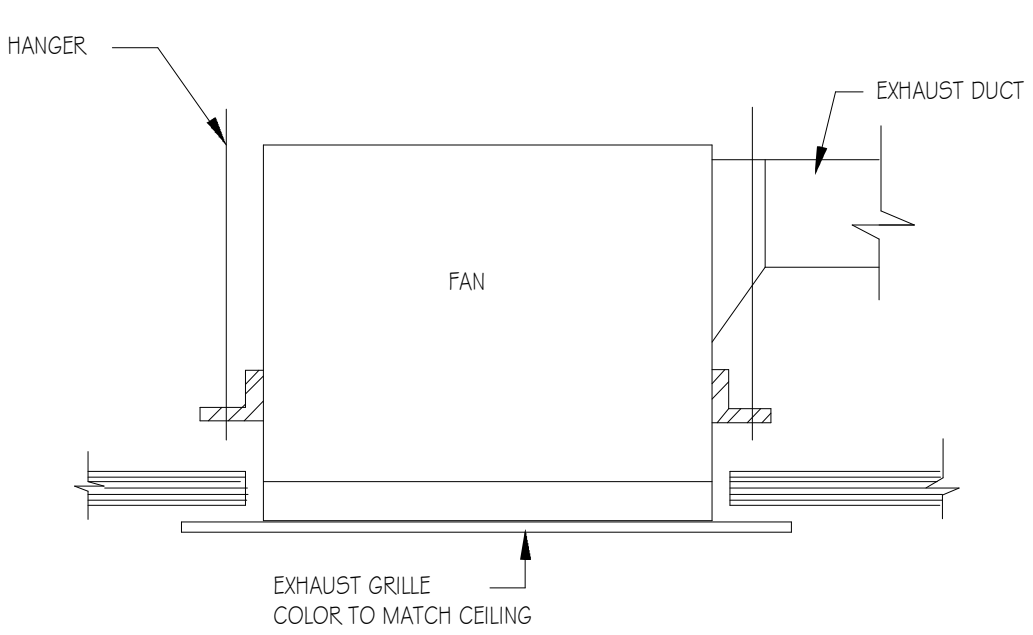
MECHANICAL LEGEND



1 BRANCH TAKEOFF TO SINGLE OUTLET NOT TO SCALE



2 CONDENSING UNIT PAD DETAIL NOT TO SCALE



3 EXHAUST FAN DETAIL NOT TO SCALE

UNIT HEATER SCHEDULE

TAG	LOCATION	MOUNTING	CAPACITY MBH (O)	V PH HZ			MANUFACTURER & MODEL NO.	NOTES
				V	PH	HZ		
UH-1	HANGAR	SUSPEND	75/60	120	1	60	REZNOR X-75	1,2,3,4
UH-2	HANGAR	SUSPEND	75/60	120	1	60	REZNOR X-75	1,2,3,4
UH-3	HANGAR	SUSPEND	75/60	120	1	60	REZNOR X-75	1,2,3,4
UH-4	HANGAR	SUSPEND	75/60	120	1	60	REZNOR X-75	1,2,3,4
NOTES: 1. INTERNAL THERMOSTAT 2. MOUNT HEATER @ 12\"/>								

VENTILATION CALCULATIONS

BASED ON 2018 NCMEC TABLE 403.3								
	Floor Area	Area Outdoor Air Rate cfm/sqft	People Outdoor Air Rate cfm/person	Occupant Density #/1000 S.F.	Occupancy	Outdoor Air Required	Ventilation Effectiveness (E2)	Total Outdoor Air Required
AH-1								
Comidor	354	0.06	0	0	0	21	0.8	27
Office	607	0.06	5	5	3	52	0.8	64
Lobbies/Prefunction	524	0.06	7.5	30	16	149	0.8	187
AH-1 TOTAL OUTSIDE AIR REQUIRED								187
AH-1 TOTAL OUTSIDE AIR PROVIDED								200

DIFFUSER SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	AS NOTED	AS NOTED	24x24	LAY-IN	4-WAY	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD	1
B	AS NOTED	AS NOTED	12x12	SURFACE	4-WAY	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD	1
C	AS NOTED	AS NOTED	24x24	LAY-IN	-	YES	STEEL	RETURN	NOTE 2	PRICE PDDR	1
NOTES: 1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWED: DIFFUSER OR NECK SIZE 2. FINISH TO MATCH/ BE ABLE MATCH CEILING OR WALL OR DOOR 3. PROVIDE WITH U.L. LISTED RADIATION DAMPER.											

FAN SCHEDULE

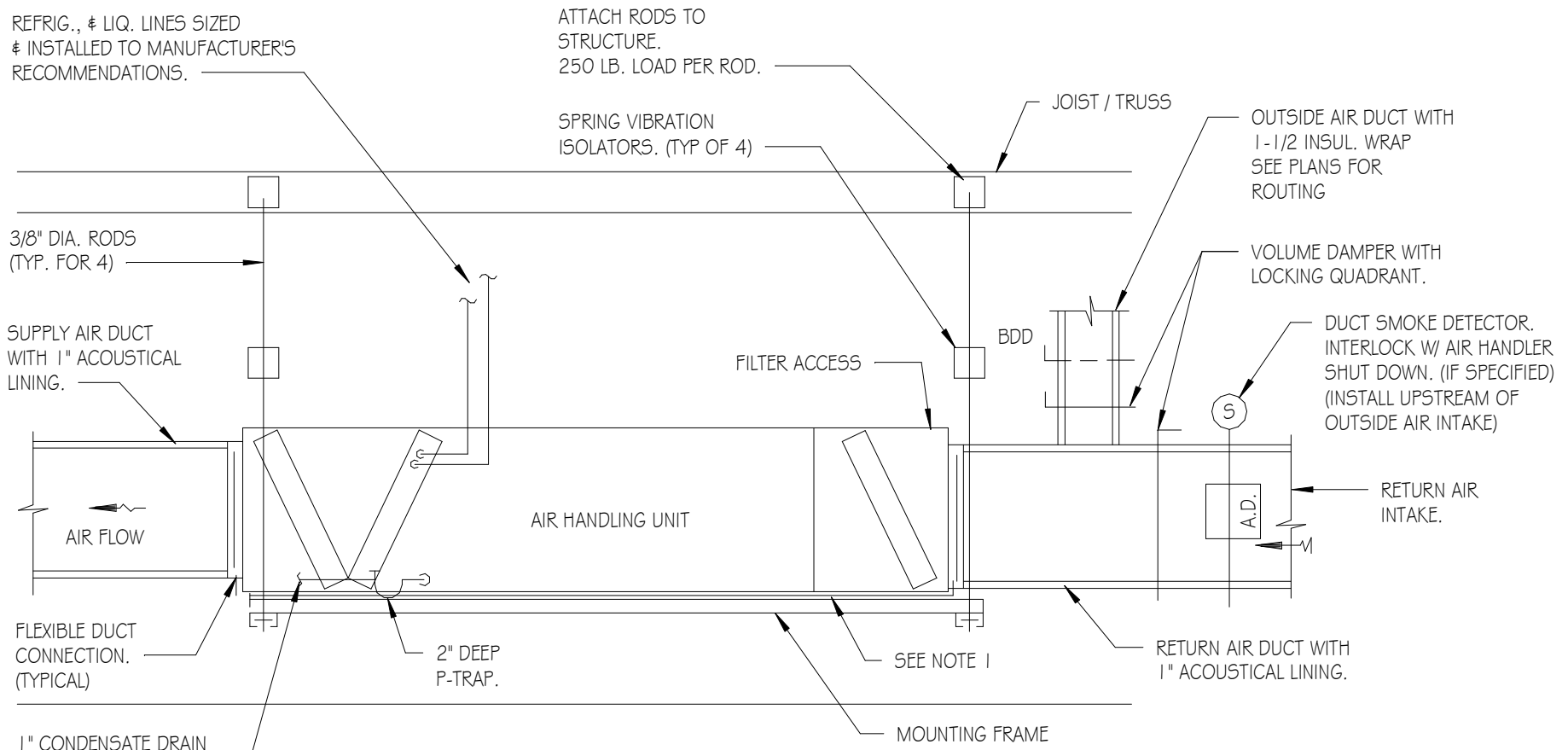
UNIT NO.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE & ARRANGEMENT	MIN. MOTOR HP & VOLTAGE	MANUFACTURER & MODEL NO.	DRIVE	CONTROL SCHEME	NOTES
EF-1	EXHAUST	TOILET	75	0.25"	808	CEILING	0.04 HP 120/1 PH	COOK GC-146	DIRECT	A	1-4
EF-2	EXHAUST	TOILET	75	0.25"	808	CEILING	0.04 HP 120/1 PH	COOK GC-146	DIRECT	A	1-4
EF-3	EXHAUST	HANGAR	2000	0.25"	865	WALL	0.25 HP 120/1 PH	COOK GC-146	DIRECT	C	1-9
NOTES: 1. SCREEN 2. BACKDRAFT DAMPER 3. COLOR BY ARCHITECT 4. INTEGRAL DISCONNECT SWITCH 5. SPEED CONTROLLER NEAR FAN 6. PROVIDE STARTER AS REQUIRED 7. PROVIDE WITH CURVED BLADES 8. PROVIDE WEATHERHOOD WITH FILTERS 9. PROVIDE WITH OSHA MOTOR SIDE GUARD.											

CONTROL OPTIONS:

- CONTROL W/ ROOM LIGHTS
- CONTROL W/ THERMOSTAT
- CONTROL W/ SWITCH
- CONTINUOUS OPERATION

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

AIR HANDLING UNIT DATA												HEAT PUMP											
FAN DATA												GENERAL DATA											
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (WG)	MOTOR HP	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	HEAT (MBH)	AUX. HEAT (KW)	ELECTRICAL DATA	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER2)	HSFP	ELECTRICAL DATA	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER2)	HSFP	NOTES
AH-1	OFFICE	CARRIER FJ4DNXC42	1400	0.5"	1/2	200	40.6	31.27	42.7	7.5	208/1 53.8 60	HP-1	CARRIER 255CA542	3.5	15	7.5	208/1 24.7 40	166/221	1-11 13				
AH-2	HANGER	CARRIER FJ4DNXD60	1800	0.5"	3/4	NA	57.2	42.39	57.2	7.5	208/1 53.8 60	HP-2	CARRIER 255CA560	5	15	7.5	208/1 33.2 50	210/260	1-10 12 13				
AH-3	HANGER	CARRIER FJ4DNXD60	1800	0.5"	3/4	NA	57.2	42.39	57.2	7.5	208/1 53.8 60	HP-3	CARRIER 255CA560	5	15	7.5	208/1 33.2 50	210/260	1-10 12 13				
NOTES: 1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95 DEGREE FAHRENHEIT AMBIENT OUTDOOR AIR TEMPERATURE, 80 DEGREE FAHRENHEIT DRY BULB, AND 67 DEGREE FAHRENHEIT WET BULB ENTERING AIR TEMPERATURE, AND NORMAL AIR QUANTITY LISTED. 2. REFRIGERANT PIPING TO BE SIZED PER TOTAL INSTALLATION EQUIVALENT LENGTH. LONG-LINE APPLICATION TO BE PROVIDED WHENEVER MANUFACTURER RECOMMENDED LENGTHS ARE EXCEEDED, INCLUDING LIQUID LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAXIMUM T.E.L. IS 100'. 3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT. 4. PROVIDE NEW FILTER IN EACH UNIT AT TURNOVER TO OWNER. 5. OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING. 6. PROVIDE MANUFACTURERS 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER HEAT/ COOL THERMOSTAT. PROVIDE WITH OUTSIDE AIR TEMPERATURE SENSOR TO LOCKOUT ELECTRIC HEAT WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 40 DEGREES. 7. PROVIDE HEAT PUMP KIT WITH AIR HANDLER (IF REQUIRED). 8. PROVIDE A 24V MOTORIZED DAMPER ON FRESH AIR RUN-OUT TO UNIT. DAMPER IS TO OPEN WHEN FAN IS ENERGIZED. 9. ALL ACCESSORIES AND OPTIONS ARE TO BE FACTORY INSTALLED. 10. AHU TO USE HORIZONTAL APPLICATION. 11. DRAIN CONDENSATE TO HUB DRAIN. 12. DRAIN CONDENSATE TO BUILDING EXT. 13. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY UNITS. INFORMATION ON ALTERNATE UNITS PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/ DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT UNIT (OR THE ALTERNATE PACKAGE AS A WHOLE).																							



4 AIR HANDLING UNIT DETAIL NOT TO SCALE

Sheet List	
Sheet Name	Sheet Number
MECHANICAL GENERAL NOTES, LEGEND, AND SCHEDULES	M-001
MECHANICAL FLOOR PLAN	M-101

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/14/25
PROJECT NUMBER Project Number
SHEET TITLE

MECHANICAL GENERAL NOTES, LEGEND, AND SCHEDULES

SHEET NUMBER

M-001



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

MECHANICAL ELECTRICAL PLUMBING

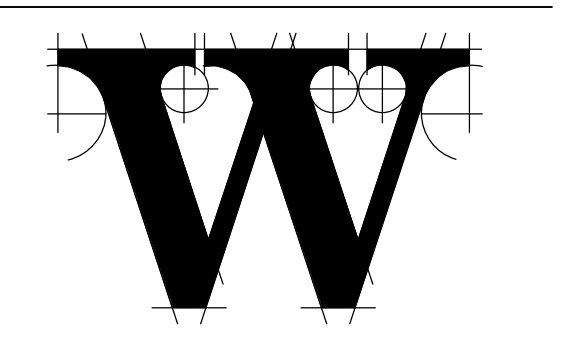


03/20/25
FIRM NUMBER - C-2130



Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

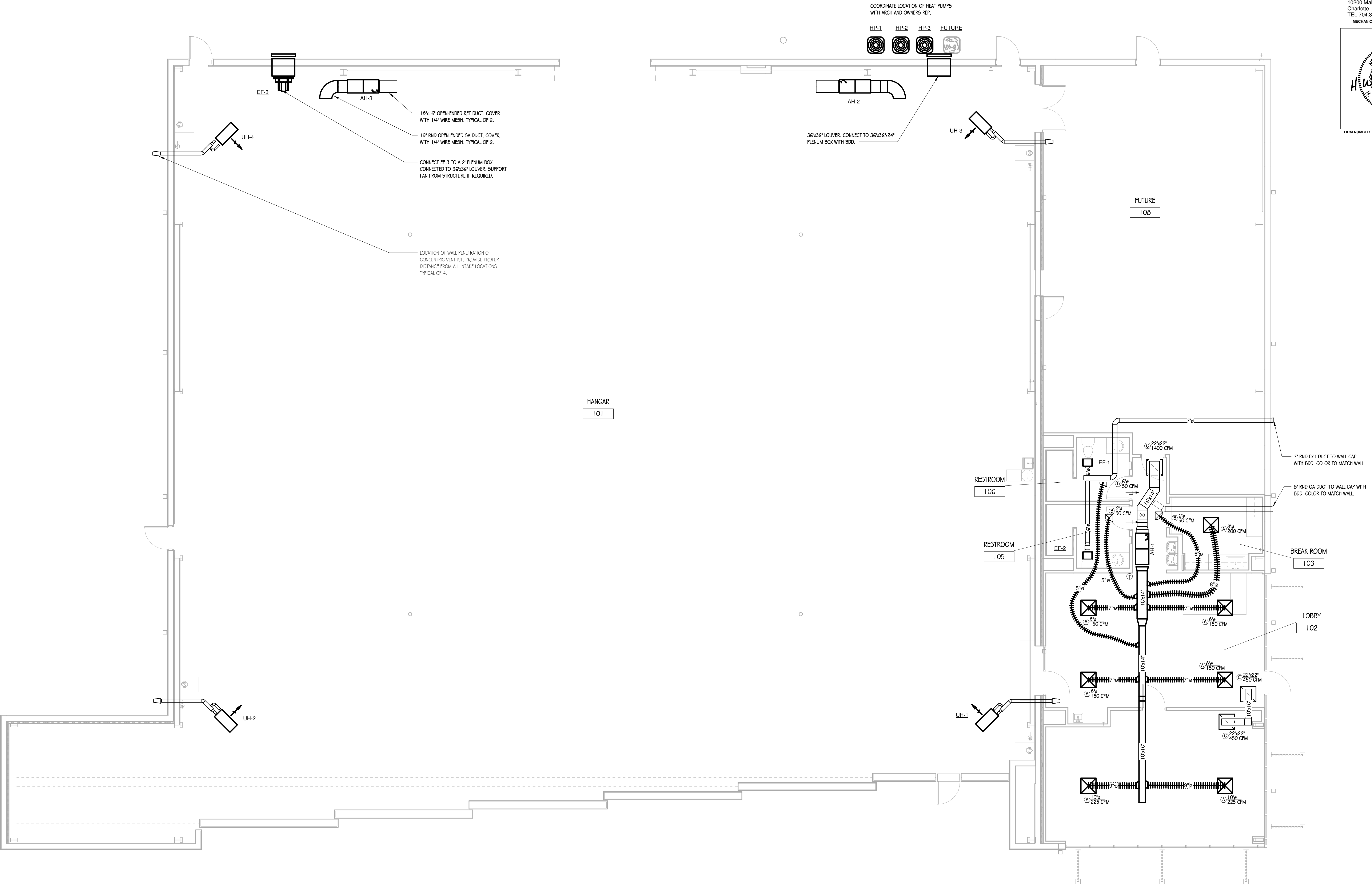
REVISIONS

DATE 03/14/25
PROJECT NUMBER Project Number
SHEET TITLE





MECHANICAL
FLOOR PLAN

SHEET NUMBER

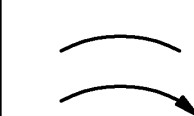


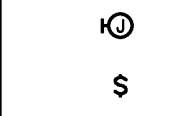

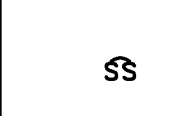

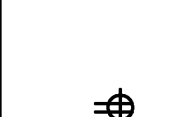
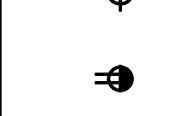
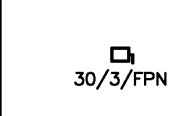


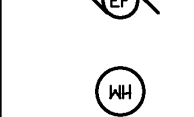
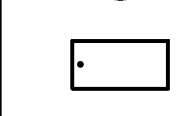
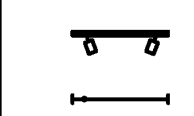
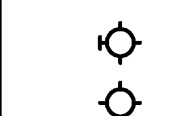




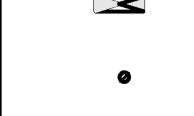



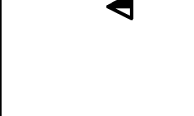



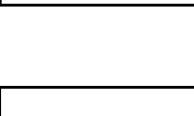
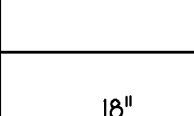

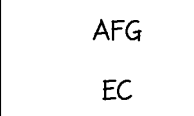

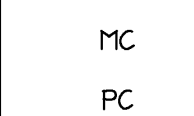
M-101



1 MECHANICAL FLOOR PLAN
3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE										
MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE		NO.	TYPE			
A2	RENOVA	RVN 22 N L040 UNV D1 C35 AF	-	LED	UNV	-	-	32	LAY-IN	LED 2X2 LAYIN, DIRECT/INDIRECT, 4000K, 3700 LUMEN NOMINAL OUTPUT
A2E	RENOVA	RVN 22 N L040 UNV D1 C35 AF E1	-	LED	UNV	-	-	32	LAY-IN	AS ABOVE WITH 90 MINUTE BATTERY BACKUP
C	LITHONIA	LDN6 AL02 SHW L06 WR L55 MVOLT UGZ WL	1	LED	MULTI	1	ELECTRONIC	26	RECESSED	6" RECESSED CAN LIGHT, SHOWER RATED
D	JADEMAR	JMP-FC-CPS 80W D VN	1	LED	MULTI	1	ELECTRONIC	80	WALL	FULL CUTOFF MEDIUM WALL PACK WITH TEMPERED GLASS LENS AND CAST ALUMINUM HOUSING, DARK SKY, MEDIUM DISTRIBUTION
E	JADEMAR	JMP-FC-CPS 150W D VN	1	LED	MULTI	1	ELECTRONIC	181	WALL	FULL CUTOFF WALL PACK WITH TEMPERED GLASS LENS AND CAST ALUMINUM HOUSING, DARK SKY, FORWARD THROW
M	LUX	L 3 D A 850 4 U10		LED	UNV		ELECTRONIC	466	SUSPENDED	LED HIGH BAY FIXTURE, 5000K, 70,498 LUMEN NOMINAL OUTPUT, 0-10V DIM
ME	LUXMAX	L 3 D A 850 4 U10 E20	-	LED	UNV	-	ELECTRONIC	466	SUSPENDED	AS ABOVE WITH 90 MINUTE 20W BATTERY BACKUP
OL	FARLIGHT	NV-LB10LED DUAL	1	LED	120	1		6	POLE	BUILDING OBSTRUCTION BEACON LIGHT, PROVIDE FAA APPROVED PHOTOCELL ON NORTH FACE OF BUILDING.
S	LITHONIA	MNSL 96 MV 16	1	LED	MULTI	1	ELECTRONIC	48	SURFACE / SUSPENDED	96" LED STRIP
S4	LITHONIA	MNSL 48 MV 16	1	LED	MULTI	1	ELECTRONIC	24	SURFACE / SUSPENDED	48" LED STRIP
	LITHONIA	6ELMT	2	LED	120	-	-	24	UNIVERSAL	SURFACE MOUNTED EMERGENCY LIGHT, MOUNT AT 96" AFF TO BOTTOM, PROVIDE WITH 90 MINUTE BATTERY BACKUP.
	LITHONIA	LQTH SW - R 120/277 EL N	-	LED	120	-	-	1	UNIVERSAL	THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, PROVIDE 90 MINUTE BATTERY BACKUP.
	LITHONIA	LQTH SW - R 120/277 EL N	-	LED	120	-	-	1	UNIVERSAL	THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, PROVIDE 90 MINUTE BATTERY BACKUP.
	LITHONIA	AFN DB EXT	2	6W	120	-	-	12	WALL	SURFACE MOUNTED EXTERIOR EMERGENCY LIGHT MOUNT AT 96" AFF. CONNECT TO UNSWITCHED LEG OF EXTERIOR LIGHTING CIRCUIT.
NOTES: 1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE). 2. MASTER SLAVE WIRING CONFIGURATIONS SHALL BE USED FOR MULTI-LAMP FLUORESCENT FIXTURES WHERE POSSIBLE. THE CONTRACTOR SHALL VERIFY THE QUANTITY AND TYPE OF BALLASTS REQUIRED TO PERMIT BI-LEVEL SWITCHING WHERE INDICATED. WHERE BI-LEVEL LIGHTING IS INDICATED INBOARD AND OUTBOARD LAMPS SHALL BE SWITCHED SEPARATELY. 3. EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT, UNLESS NOTED OTHERWISE.										

GENERAL ELECTRICAL NOTES										
1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.										
2. ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.										
3. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.										
4. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.										
5. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.										
6. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.										
7. PROVIDE GROUND RING AND AIRCRAFT GROUNDING SYSTEM. COORDINATE TIE DOWN & GROUNDING POINTS WITH ARCHITECTURAL PLANS. SEE ALTERNATES FOR EXTENT OF SYSTEM.										
8. ALL BRANCH CIRCUIT CONDUITS OR CABLE ASSEMBLIES SHALL CONTAIN AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER NEC 250-122.										
9. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.										
10. CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE 48 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, UNLESS OTHERWISE NOTED. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN OR THWN AS REQ'D.										
11. ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. MINIMUM CONDUIT SIZE TO BE 1/2". USE IMC WHERE REQUIRED BY CODE OR WHERE SUBJECT TO PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION TYPE.										
12. MC CABLE ASSEMBLIES MAY BE USED FOR WIRING TO LIGHTING FIXTURES. MAXIMUM WHIP LENGTH SHALL BE 6 FEET.										
13. PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.										
14. PROVIDE APPROVED SEALS IN HAZARDOUS LOCATIONS AS REQUIRED BY THE NEC.										
15. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.										
16. FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.										
17. ALL TERMINALS/LUGS SHALL BE 60/75% RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.										
18. VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.										
19. E.C. TO VERIFY DEVICE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.										
20. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.).										
21. PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.										
22. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED U.L. OR EQUIVALENT ASSEMBLIES.										
23. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.										
24. WHERE A HOME RUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN, THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS: A MAXIMUM OF THREE 20A BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A MAXIMUM TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANEL.										
25. COORDINATE WITH THE CABLE TV AND TELEPHONE UTILITIES AS REQUIRED FOR SERVICE ENTRANCE REQUIREMENTS. INSTALLATION MUST COMPLY WITH THEIR RESPECTIVE REGULATIONS AND REQUIREMENTS.										
26. RECEPTACLES SHALL BE SPECIFICATION GRADE EQUAL TO HUBBELL 5300 SERIES, GROUND FAULT RECEPTACLES SHALL BE HUBBELL GF-5362. LIGHTING SWITCHES SHALL BE SPECIFICATION GRADE EQUAL TO HUBBELL 1200 SERIES.										
27. ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.										
28. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEISMIC CODE REQUIREMENTS. PROVIDE SEISMIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.										
29. ELECTRICAL CONTRACTOR TO COORDINATE THE EXACT MCA/MOPC REQUIREMENTS OF ALL EQUIPMENT WITH ALL OTHER TRADES PRIOR TO PRICING, ORDERING, OR INSTALLING ANY ELECTRICAL GEAR. THIS SHALL INCLUDE BUT NOT LIMITED TO ALL HVAC, PLUMBING, KITCHEN, OWNER PROVIDED EQUIPMENT, ETC.										

ELECTRICAL SYMBOL LEGEND	
	CIRCUIT CONDUCTORS CONCEALED IN FLOOR, WALL OR CEILING.
	ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
	INDICATES HOT LEG OF CIRCUIT TO BE CARRIED OVER TO NEXT DEVICE. SEE PLANS FOR CONTROL SCHEME.
	JUNCTION BOX CEILING MOUNTED.
	JUNCTION BOX FLOOR MOUNTED.
	JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
	SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F. TO CENTER. "3P" INDICATES 3-WAY SWITCH. "4P" INDICATES 4-WAY SWITCH. "D" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD. "K" INDICATES KEY OPERATED SWITCH. "M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
	INDICATES FLUORESCENT FIXTURES DUAL SWITCHED, INBOARD/OUTBOARD SWITCHED SEPARATELY.
	DUPLEX RECEPTACLE, 15 AMP, 120 VOLT, 24" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE "WP" INDICATES WEATHERPROOF "EW" INDICATES GF TYPE RECEPTACLE MOUNT INSIDE ENCLOSURE OF ELECTRIC WATER COOLER
	QUADRUPLEX RECEPTACLE, AS ABOVE, 24" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED, WITH GFI PROTECTION.
	HEAVY DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE. "FPM" INDICATES FUSE PER EQUIPMENT NAMEPLATE "NF" INDICATES NON-FUSED.
	208Y/120V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
	480Y/277V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
	FAN, PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
	WATER HEATER, PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
	RECESSED MOUNTED 2X4 FLUORESCENT TROFFER, SEE FIXTURE SCHEDULE FOR DETAILS.
	TRACK LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	SURFACE MOUNTED FLUORESCENT STRIP, SEE FIXTURE SCHEDULE FOR DETAILS.
	WALL MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	SURFACE, RECESSED OR GROUND MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
	ELECTRIC UTILITY METER LOCATION.
	EXIT LIGHT, CEILING AND WALL MOUNTED RESPECTIVELY, SHADING INDICATES FACE. PROVIDE RED LETTERS WITH BLACK HOUSING AND EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	EMERGENCY LIGHT, WALL MOUNTED WITH EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	REMOTE MOUNTED LAMP HEAD, WALL MOUNTED WITH EMERGENCY BATTERY PACK RATED FOR 90 MINUTE DURATION. WIRE TO HOT LEG OF LOCAL LIGHTING CIRCUIT.
	SPRINKLER MONITORING PANEL, SURFACE MOUNTED.
	AIRCRAFT GROUNDING POINT. SEE ARCHITECTURE PLANS FOR EXACT LOCATIONS. EQUAL TO ROBBINS LIGHTNING MODEL 680A ON 3/4" EXTENSION ROD. PROVIDE #2 GND CONNECTION TO GROUND RING.
	CEILING MOUNTED OCCUPANCY SENSOR SET FOR 30 MINUTES.
	WALL MOUNTED AT 46" AFF OCCUPANCY SENSOR SET FOR 30 MINUTES.
	WALL MOUNTED AT 46" AFF OCCUPANCY/VACANCY SENSOR WITH DIMMING CONTROLS.
	LIGHTING CONTROL STATION
	TELEPHONE/DATA OUTLET, 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG BOX AND SINGLE GANG MUD-RING. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING IN FINISHED AREAS. PROVIDE TWO RJ-45 CAT6 JACKS PER OUTLET, ONE BLUE ONE YELLOW. PROVIDE TWO CAT6 HOMERUNS BACK TO PATCH PANEL IN RACK IN IT ROOM. STAINLESS COVER PLATES
	TV/DATA OUTLET, 60" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG BOX AND SINGLE GANG MUD-RING. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING IN FINISHED AREAS. PROVIDE TWO RJ-45 CAT6 JACKS PER OUTLET, ONE ORANGE, ONE BLUE. PROVIDE TWO CAT6 HOMERUNS BACK TO PATCH PANEL IN RACK IN IT ROOM. STAINLESS COVER PLATES
	(2) GANG RECESSED IN SLAB FLOOR BOX WITH COVER PLATE AND RECEPTACLES AND TELE/DATA OUTLETS AS INDICATED.

ELECTRICAL ABBREVIATIONS	
18"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO BE MOUNTED.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
EC	ELECTRICAL CONTRACTOR.
FPN	FUSE PER EQUIPMENT NAMEPLATE REQUIREMENTS.
GC	GENERAL CONTRACTOR.
MC	MECHANICAL CONTRACTOR.
PC	PLUMBING CONTRACTOR.
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER.
UON	UNLESS OTHERWISE NOTED.
FACP	FIRE ALARM CONTROL PANEL.


LIGHTNING PROTECTION NOTES	
1. A COMPLETE LIGHTNING PROTECTION SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 780.	5. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR TEN YEARS EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL LOCAL AND STATE CODES.	6. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.	7. CONDUCTORS SHALL BE COPPER OR ALUMINUM AND SHALL BE SELECTED SUCH THAT THEY ARE NOT BE PLACED IN CONTACT WITH DISSIPILAR BUILDING MATERIALS. ALL CONNECTIONS SHALL BE MADE WITH DEVICES LISTED FOR USE WITH THE CONDUCTOR MATERIALS TO BE JOINED.
4. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. SHOP DRAWINGS OF THE PROPOSED INSTALLATION SHALL BE PREPARED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER, THE OWNER'S INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION FOR REVIEW. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.	8. BUILDING STRUCTURAL STEEL MAY BE USED AS THE DOWN CONDUCTOR FOR THE SYSTEM BUT MUST BE BONDED TO THE SYSTEM IN ALL CASES.
	9. THE ELECTRICAL SERVICE AND THE EMERGENCY POWER DISTRIBUTION SYSTEM SHALL BE PROVIDED THE TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICES.

ELECTRICAL SHEET INDEX	
Sheet Number	Sheet Name
E-001	ELECTRICAL NOTES, LEGEND AND SCHEDULES
E-101	ELECTRICAL POWER PLAN
E-102	ELECTRICAL LIGHTING PLAN
E-201	ELECTRICAL UNWIRED PLANS
E-301	ELECTRICAL RISERS AND DETAILS
E-302	ELECTRICAL PANEL SCHEDULES




Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



SABER ENGINEERING

10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068
MECHANICAL ELECTRICAL PLUMBING



03/28/25

FIRM NUMBER: E-02130



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE:
CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/28/25

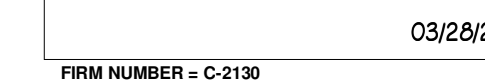
PROJECT NUMBER Project Number

SHEET TITLE

ELECTRICAL
NOTES, LEGEND
AND SCHEDULES

SHEET NUMBER

E-001



222 Airport Road, Kenansville,
NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME



AIRCRACK GROUND/ROUND ROD NOTES:

1. COORDINATE WITH CIVIL DRAWINGS PRIOR TO BEGINNING WORK.
2. 3/4" DIAMETER X 10' 0" SECTIONAL COPPER CATHOD RODS. PROVIDE WITH APPROPRIATE LISTING TO ACHIEVE A DEPTH OF 12'-0" OF POTENTIAL CONNECTION TO BE MADE USING CATHODIC OR COMPRESSION COUPLING IF APPROVED BY OWNER.
3. THE EARTH SHALL BE COMPACTED AND MADE TIGHT AGAINST ALL ROUND RODS, GROUND WIRING, CONDUCTORS, ETC.
4. CUTTING AND PATCHING OF ASPHALT AND CONCRETE, AND LANDSCAPE REPAIR SHALL BE REQUIRED. COORDINATE WITH THE OWNER, CIVIL AND GENERAL CONTRACTOR AS REQUIRED. ALL MATERIAL SHALL BE OF SIMILAR STRENGTH, COLOR, ETC.
5. GROUND ROD SHALL BE 1430 BAR TINNED COPPER CONDUCTOR BURIED A MINIMUM OF 30" BELOW FINISHED GRADE.
6. GROUND ROD SHALL REMAIN A MINIMUM OF 30" FROM THE STRUCTURE.
7. BOND ALL AIRCRACK GROUND RECEPTACLES TO THE GROUND ROD UTILIZING #2 BAR TINNED COPPER BETWEEN RECEPTACLES AND TO BUILDING CONDUCTOR GROUND RING CONNECTION POINT. SEE ARCHITECTURAL PLANS FOR THE DOWN AND GROUND POINTS.
8. AIRCRACK GROUNDING RECEPTACLE. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS. SEE SYMBOL LEGEND FOR SPECIFICATION.
9. PROVIDE CATHODIC CONNECTION TO COLUMN ABOVE FINISH FLOOR. CONNECT 3/8" BAR TINNED COPPER CONDUCTORS TO GROUND RODS.

MEC 9.3 NOTES:

1. THE AREA BELOW 1" ABOVE FINISHED FLOOR (AFF) IS A CLASS 1, DIVISION 2 AREA. ANY CONDUIT PASSING THROUGH THIS AREA MUST HAVE SEALS IN ACCORDANCE WITH 501.15 OR 505.11G AS APPLICABLE. ALL DEVICES / PANELS TO BE INSTALLED A MINIMUM OF 24" ABOVE FINISHED FLOOR.
2. THE AREA WITHIN 5 FEET HORIZONTALLY FROM AIRCRAFT FLOOR PLANTS OR AIRCRAFT FUEL TANKS IS CLASSIFIED AS A CLASS 1, DIVISION 2 LOCATION THAT EXTENDS UPWARD FROM THE FLOOR TO A LEVEL 5 FEET ABOVE THE UPPER SURFACE OF THE WINGS AND OF ENGINE ENCLOSURES. ALL ELECTRICAL DEVICES ARE TO BE INSTALLED OUTSIDE OF THIS AREA. SEE ARCHITECTURAL PLANS FOR DETAILS OF ANTICIPATED AIRCRAFT SIZES.
3. DOORS TO OFFICE AND SHOP AREAS ARE TO HAVE AUTOMATIC BOTTOM SEALS SUCH THAT THESE AREAS ARE SUITABLY CUT-OFF FROM THE HANGAR AREAS.

POWER PLAN NOTES:

① COORDINATE WITH G.C. TO PROVIDE 208V, 3P CONNECTION FOR HANGAR DOOR VIA 30A/3P/PP DISCONNECT SWITCH.

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE	03/28/25
PROJECT NUMBER	Project Number
SHEET TITLE	

ELECTRICAL POWER PLAN

SHEET NUMBER
E-101



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068
MECHANICAL ELECTRICAL PLUMBING

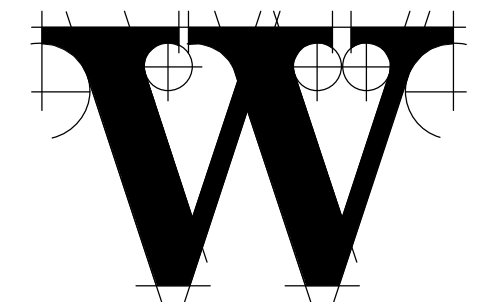
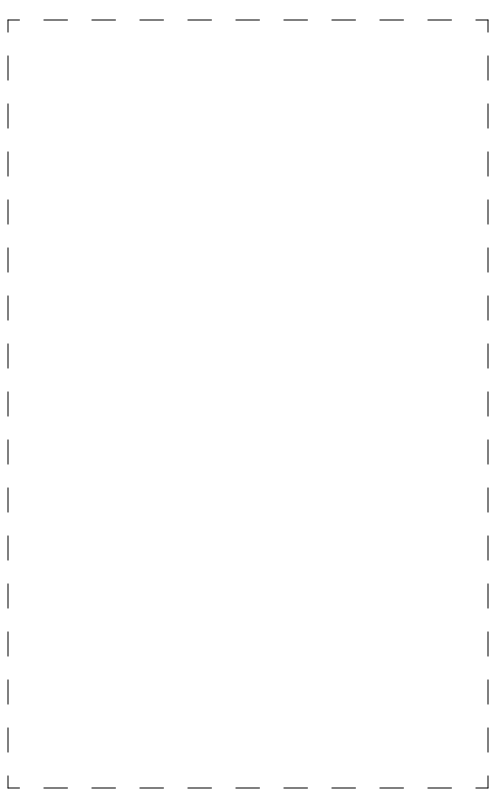


03/28/25
FIRM NUMBER = C-2130



Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-5747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

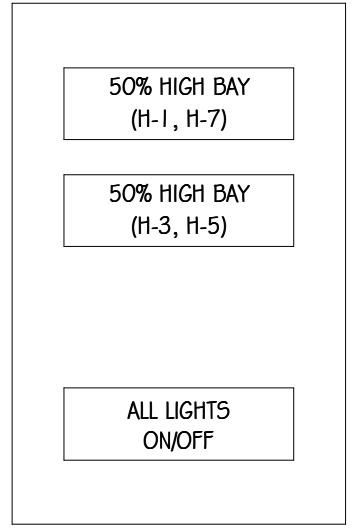
PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/28/25
PROJECT NUMBER Project Number
SHEET TITLE

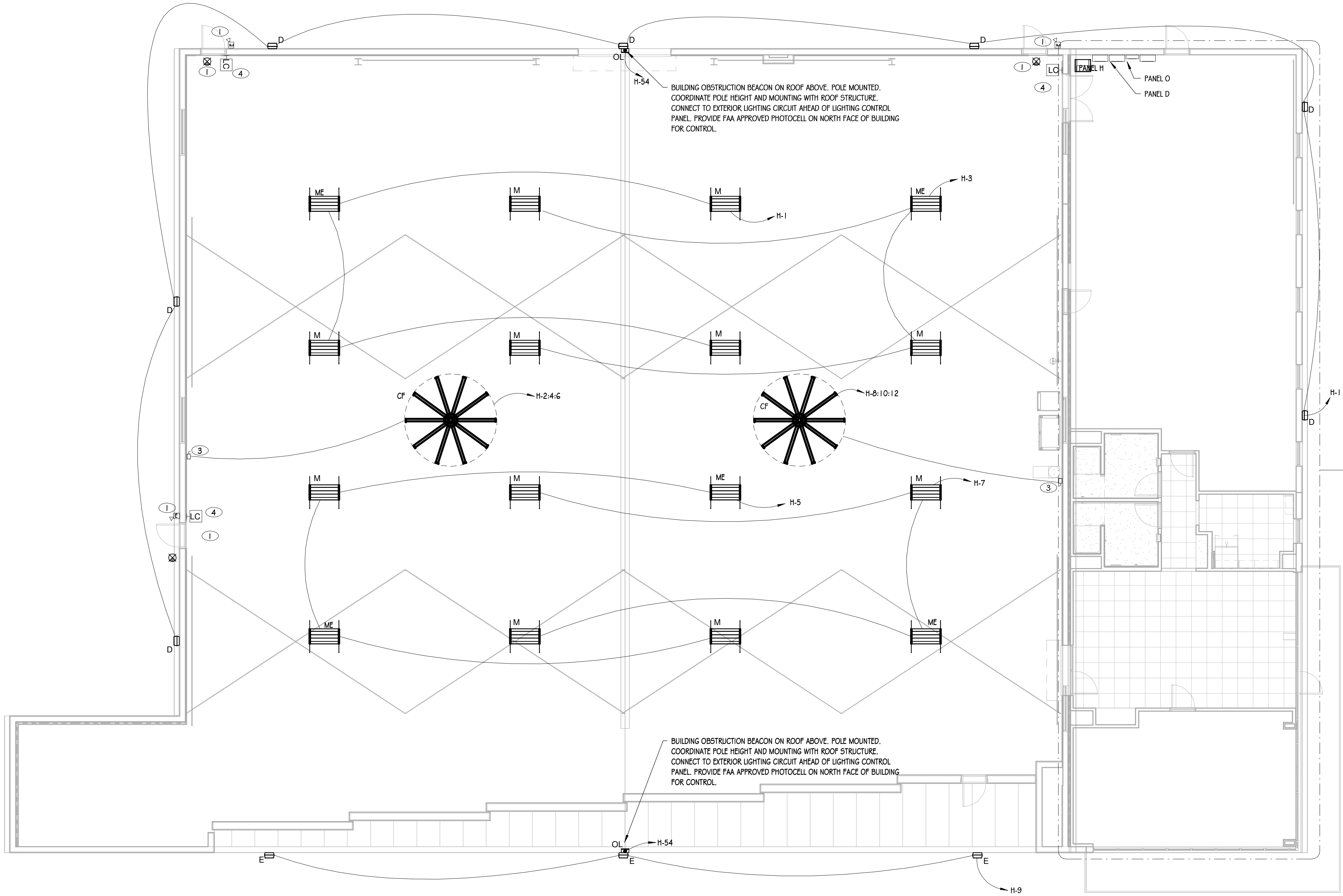
ELECTRICAL
LIGHTING PLAN

SHEET NUMBER
E-102



HANGAR LIGHTING CONTROL STATION DETAIL

- NOTES:
1. VERIFY FACEPLATE REQUIREMENTS WITH ARCHITECT.
 2. PROVIDE (1) LIGHTING CONTROL STATION AT EACH OF THE HANGAR ENTRANCE DOORS. SEE PLANS FOR LOCATIONS.



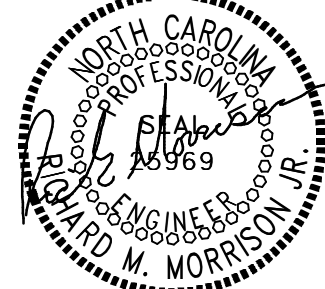
- NOTES:
1. CONNECT ALL EMERGENCY LIGHTS TO NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ANY LOCAL SWITCHING, TYPICAL FOR EACH.
 2. ROUTE EXTERIOR LIGHTING THROUGH TIMECLOCK/PHOTOCELL FOR OPERATION. TIMECLOCK = OFF, PHOTOCELL = ON.
 3. COORDINATE WITH G.C. TO PROVIDE 208V, 3P CONNECTION FOR CEILING FAN VIA 30A/3P/3P/1N DISCONNECT SWITCH MOUNTED AT 48" AFF.
 4. HANGAR LIGHTING CONTROL STATION. SEE DETAIL THIS SHEET.

LIGHTING GENERAL NOTES:
1. CONNECT ALL EMERGENCY FIXTURE BATTERY TO UNSWITCHED LEG OF LIGHTING CIRCUIT AHEAD OF ALL CONTROLS, AND CIRCUIT PRIMARY DRIVER TO SWITCHED LEG OF LIGHTING CIRCUIT. (FIXTURE TO SWITCH ON/OFF UNLESS NORMAL POWER IS LOST)
2. VERIFY ALL MOUNTING HEIGHTS, REQUIREMENTS AND LOCATIONS WITH OWNER PRIOR TO COMMENCING WORK.
3. ALL LIGHTING FIXTURES ARE TO BE CIRCUITED VIA LIGHTING CONTROL PANEL RELAYS WILL THEN BE CONNECTED TO LIGHTING CONTROL STATIONS AS SHOWN IN LIGHTING CONTROL STATION DETAIL.

1 ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

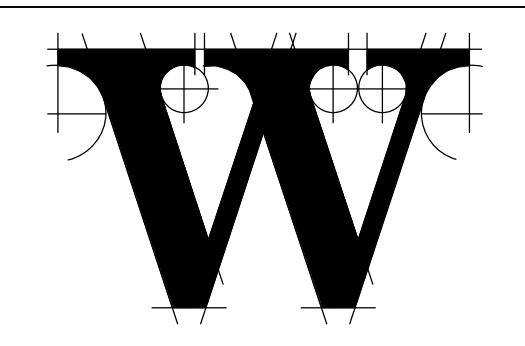


03/26/25
FIRM NUMBER = C-2130



Air Field Hangar Building

222 Airport Road, Kenansville, NC 28349



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE
CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/28/25
PROJECT NUMBER Project Number
SHEET TITLE

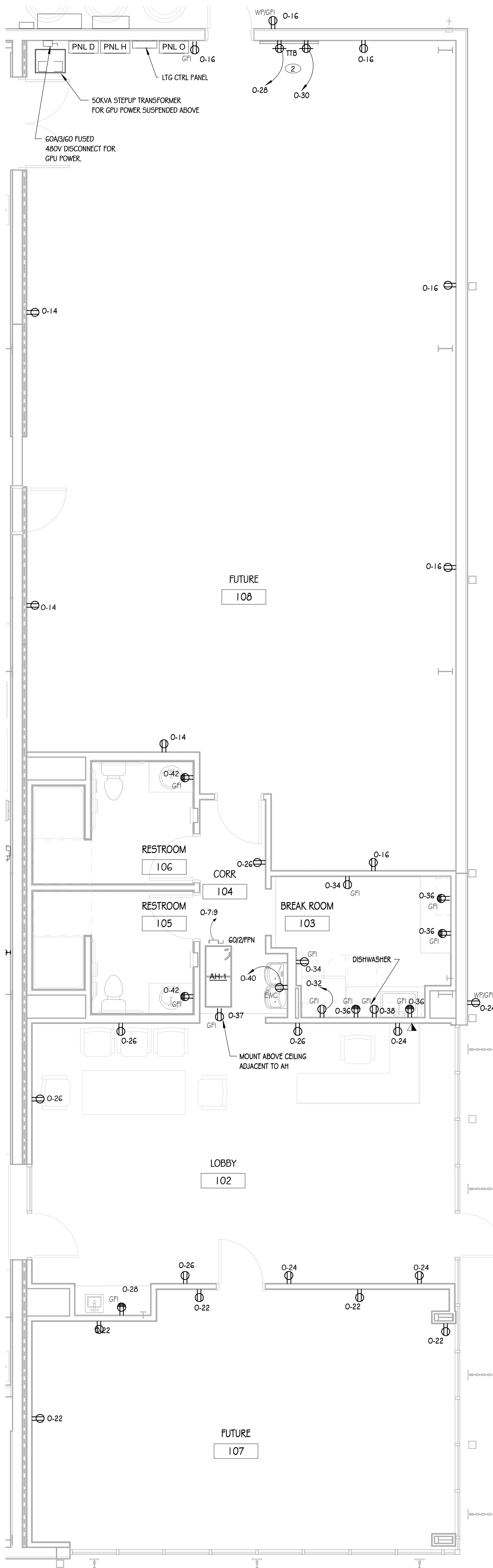
ELECTRICAL
ENLARGED
PLANS

SHEET NUMBER

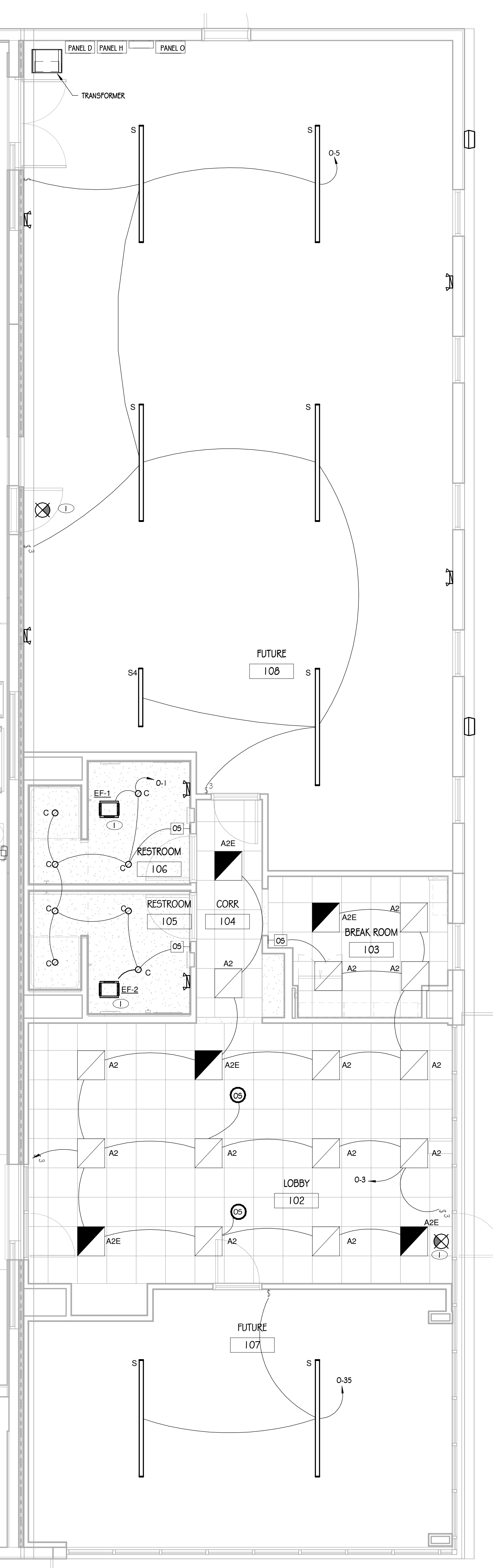
E-201

- SEC 51.3 NOTES:
1. THE AREA BELOW 1/8" ABOVE FINISHED FLOOR (AFF) IS A CLASS 1, DIVISION 2 AREA. ANY CONDUIT PASSING THROUGH THIS AREA MUST HAVE SEALS IN ACCORDANCE WITH 501.115 OR 505.16 AS APPLICABLE. ALL DEVICES / PANELS TO BE INSTALLED A MINIMUM OF 24" ABOVE FINISHED FLOOR.
 2. THE AREA WITHIN 5 FEET HORIZONTALLY FROM AIRCRAFT POWER PLANTS OR AIRCRAFT FUEL TANKS IS CLASSIFIED AS A CLASS 1, DIVISION 2 LOCATION THAT EXTENDS UPWARD FROM THE FLOOR TO A LEVEL 5 FEET ABOVE THE UPPER SURFACE OF THE WINGS AND OF ENGINE ENCLOSURES. ALL ELECTRICAL DEVICES ARE TO BE INSTALLED OUTSIDE OF THIS AREA. SEE ARCHITECTURAL PLANS FOR DETAILS OF ANTICIPATED AIRCRAFT SIZES.
 3. DOORS TO OFFICE AND SHOP AREAS ARE TO HAVE AUTOMATIC BOTTOM SEALS SUCH THAT THESE AREAS ARE SUITBLY CUT-OFF FROM THE HANGAR AREAS.

- LIGHTING GENERAL NOTES:
1. CONNECT ALL EMERGENCY FIXTURE BATTERY TO UNSWITCHED LEG OF LIGHTING CIRCUIT AHEAD OF ALL CONTROLS. AND CIRCUIT PRIMARY DRIVER TO SWITCHED LEG OF LIGHTING CIRCUIT. (FIXTURE TO SWITCH ON/OFF UNLESS NORMAL POWER IS LOST)
 2. VERIFY ALL MOUNTING HEIGHTS, REQUIREMENTS AND LOCATIONS WITH OWNER PRIOR TO COMMENCING WORK.
 3. ALL LIGHTING FIXTURES ARE TO BE CIRCUITED VIA LIGHTING CONTROL PANEL. RELAYS WILL THEN BE CONNECTED TO LIGHTING CONTROL STATIONS AS SHOWN IN LIGHTING CONTROL STATION DETAIL.



1 ENLARGED OFFICE POWER PLAN
1/4" = 1'-0"



2 ENLARGED OFFICE LIGHTING PLAN
1/4" = 1'-0"

- NOTES:
1. CONNECT ALL EMERGENCY LIGHTS TO NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ANY LOCAL SWITCHING, TYPICAL FOR EACH.
 2. PROVIDE 4x6x3/4" PLYWOOD TELEPHONE TERMINAL BOARD (TTB). VERIFY LOCATION PRIOR TO INSTALLATION.



10200 Mallard Creek Rd. Suite 105
Charlotte, North Carolina 28262
TEL 704.373.0068

MECHANICAL ELECTRICAL PLUMBING



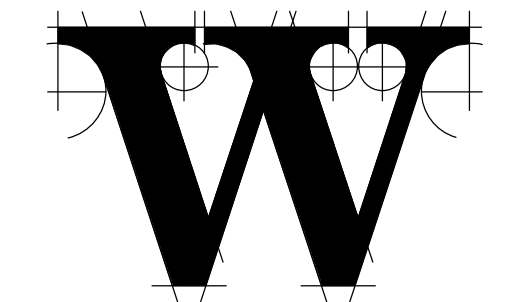
FIRM NUMBER - C-2130

03/28/25



Air Field Hangar Building

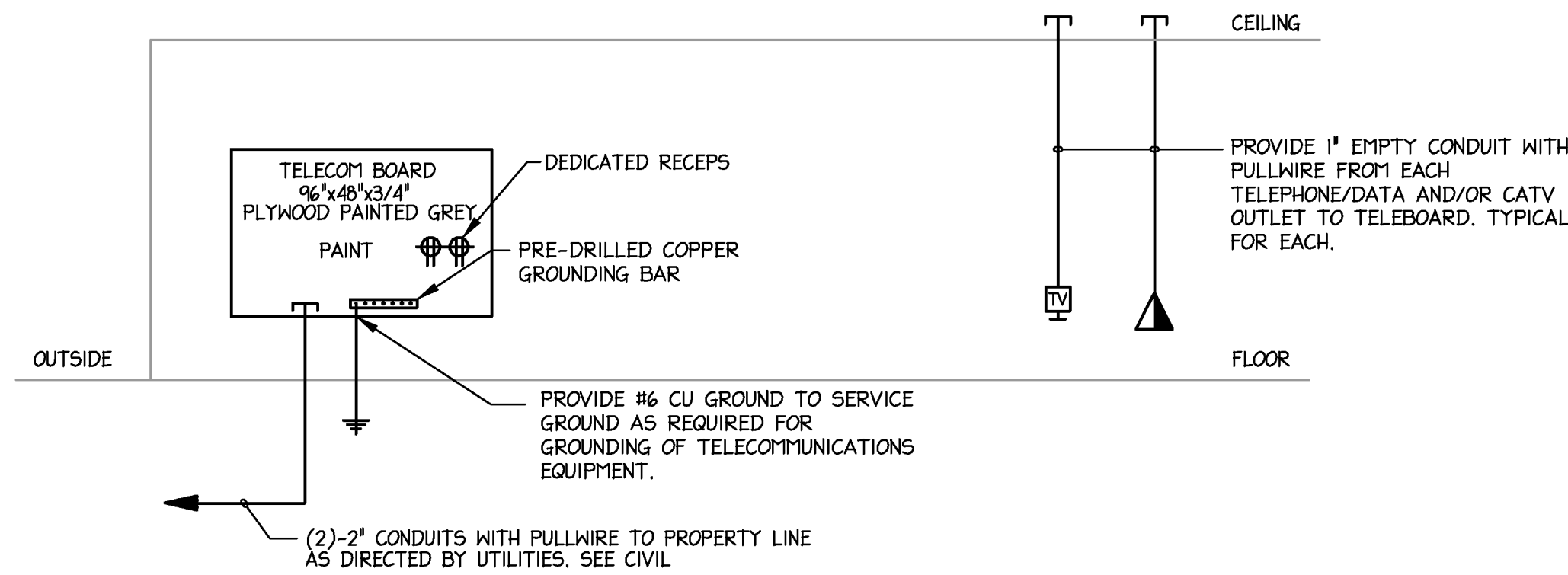
222 Airport Road, Kenansville, NC 28349



THE WILSON GROUP
- ARCHITECTS -

PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

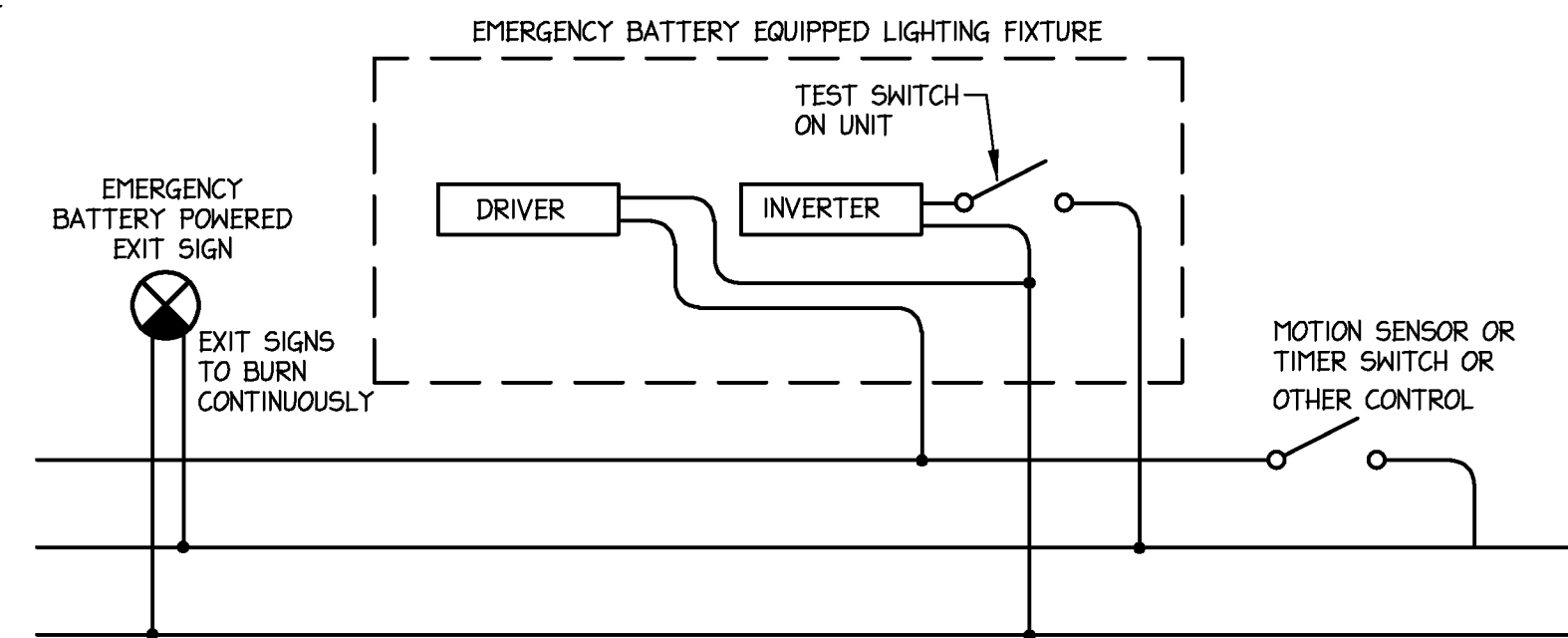
CONSULTANT DISCIPLINE
CONSULTANT NAME



3 TELEPHONE/DATA RISER NTS

NOTES:

- COORDINATE EXACT TELEPHONE AND DATA WIRING REQUIREMENTS WITH OWNER PRIOR TO PROJECT START UP.
- COORDINATE ALL DATA/TELEPHONE SERVICE WORK WITH LOCAL UTILITY PRIOR TO PROJECT START UP.

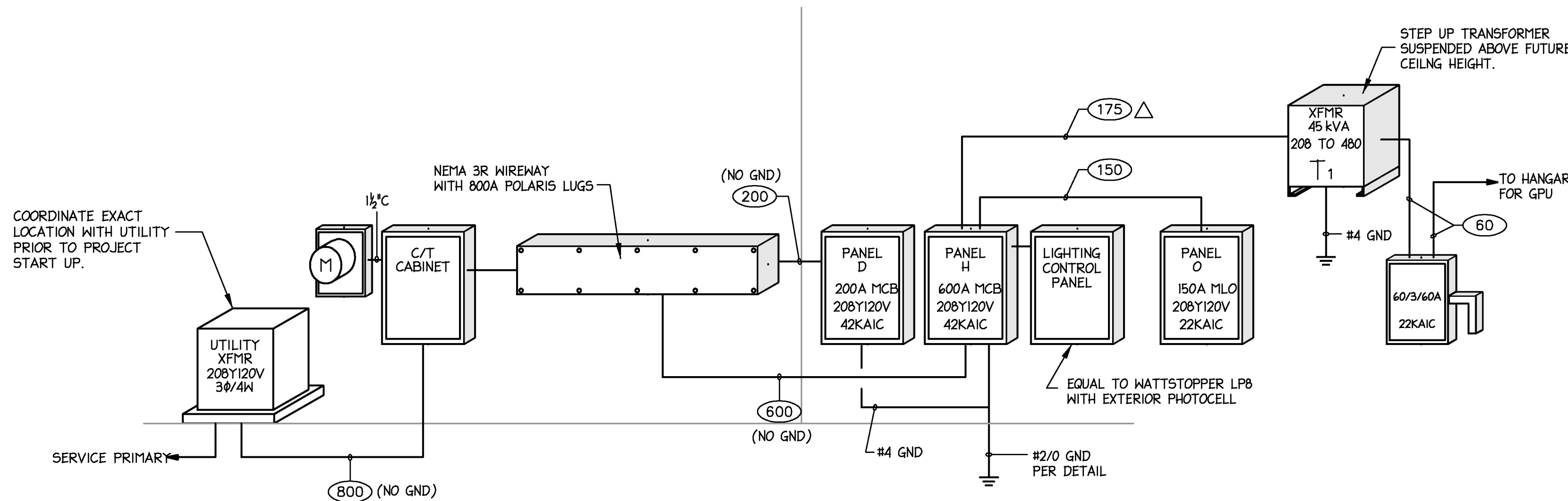


4 EMERGENCY FIXTURE WIRING DIAGRAMMATIC ONLY

FEEDER SCHEDULE - CU				
STD. FUSE OR C/B TRIP SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THIN - DRY TYPE THIN - WET	MINIMUM CONDUIT SIZE	
30	1	4 #10, #10 G	1/2"	
35	1	4 #8, #10 G	3/4"	
40	1	4 #8, #10 G	3/4"	
45	1	4 #6, #10 G	1"	
50	1	4 #6, #10 G	1"	
60	1	4 #6, #10 G	1"	
70	1	4 #4, #8 G	1 1/4"	
80	1	4 #3, #8 G	1 1/4"	
90	1	4 #2, #8 G	1 1/4"	
100	1	4 #2, #8 G	1 1/4"	
110	1	4 #2, #6 G	1 1/2"	
125	1	4 #1, #6 G	1 1/2"	
150	1	4 #1/0, #6 G	2"	
175	1	4 #2/0, #6 G	2"	
200	1	4 #3/0, #6 G	2"	
225	1	4 #4/0, #4 G	2 1/2"	
250	1	4 - 250MCH, #4 G	2 1/2"	
300	1	4 - 350MCH, #4 G	2 1/2"	
350	2	4 #2/0, #3 G	2"	
400	1	4 - 600MCH, #3 G	4"	
450	2	4 #4/0, #2 G	2 1/2"	
500	2	4 - 250MCH, #2 G	2 1/2"	
600	2	4 - 350MCH, #1 G	3"	

NOTES:

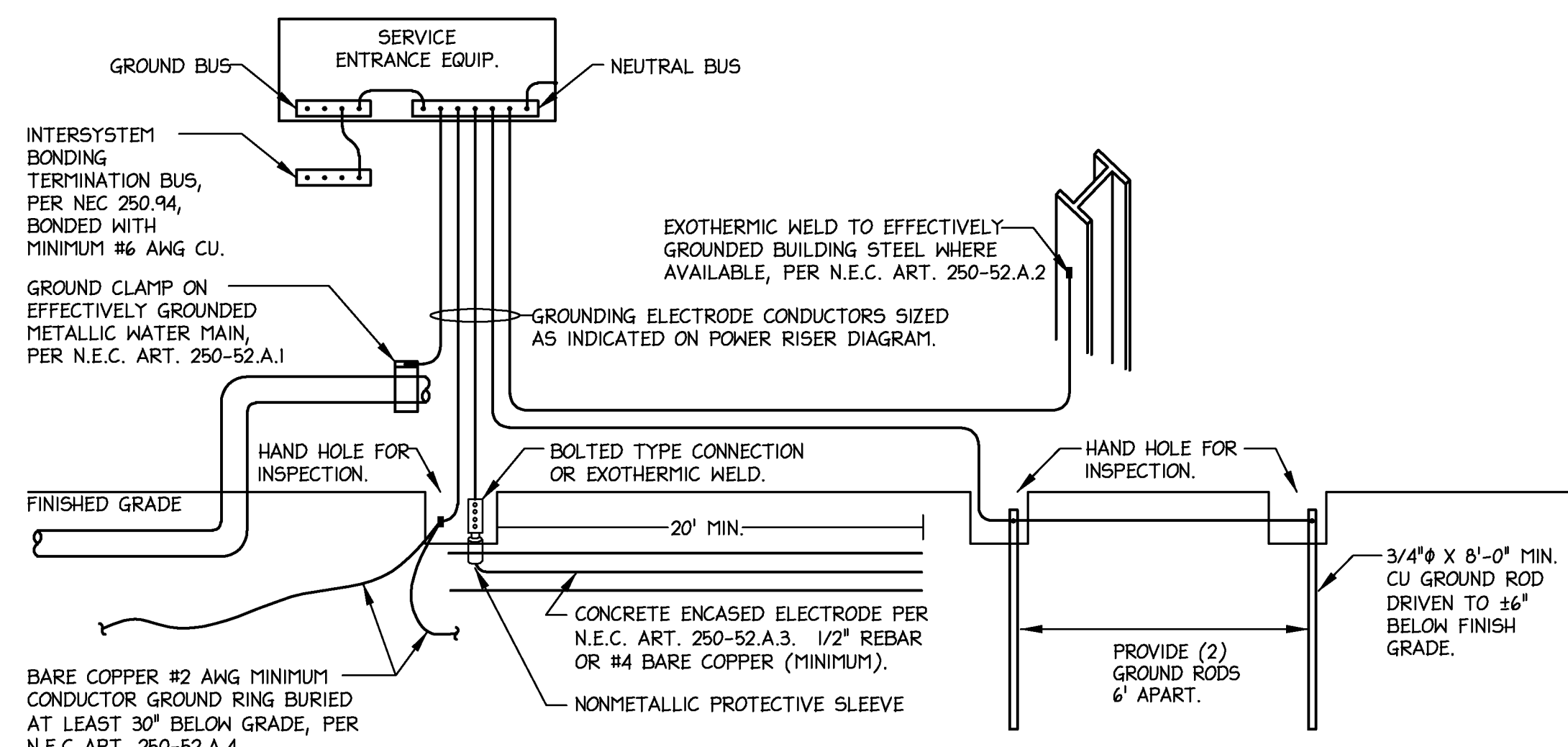
- ALL FEEDER SIZES LISTED MAY NOT BE USED IN PROJECT RISER DIAGRAM.
- ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
- REFER TO LATEST EDITION OF NEC FOR CONDUIT TYPES REQUIRED PER THEIR LOCATION. IF CONDUIT OTHER THAN "RTR" IS REQUIRED USE SIZE PER MAXIMUM FILL TABLES.
- FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL 'Δ' ARE 3Ø, 3 WIRE FEEDERS, A NEUTRAL WIRE IS NOT REQUIRED.
- FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL 'Δ' ARE 1Ø, 3 WIRE FEEDERS.
- IG - PROVIDE ISOLATED GROUND CONDUCTOR FOR ISOLATED GROUND BUS IN PANEL.
- FEEDERS ARE SIZED FOR NEC DEMAND ONLY. EC TO ADJUST FEEDER SIZES AS REQUIRED TO MAINTAIN 3% MAX VOLTAGE DROP FROM SERVICE ENTRANCE



1 POWER RISER DIAGRAM DIAGRAMMATIC ONLY

NOTES:

- COORDINATE ALL ELECTRICAL SERVICE WORK WITH LOCAL UTILITY PRIOR TO PROJECT START UP. ALL WORK MUST CONFORM TO LOCAL UTILITY RULES AND REGULATIONS.
- ALL ELECTRICAL EQUIPMENT SIZES ARE BASED ON SQUARE D. IF OTHER MANUFACTURER IS SELECTED IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL EQUIPMENT FITS IN SPACE PROVIDED.



2 GROUNDING DETAIL NTS

GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM. ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT BE REQUIRED OR AVAILABLE.

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED
PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE 03/28/25
PROJECT NUMBER Project Number
SHEET TITLE

ELECTRICAL RISERS AND DETAILS

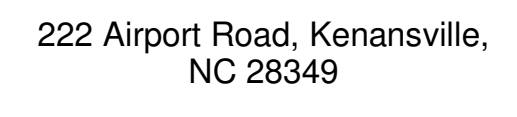
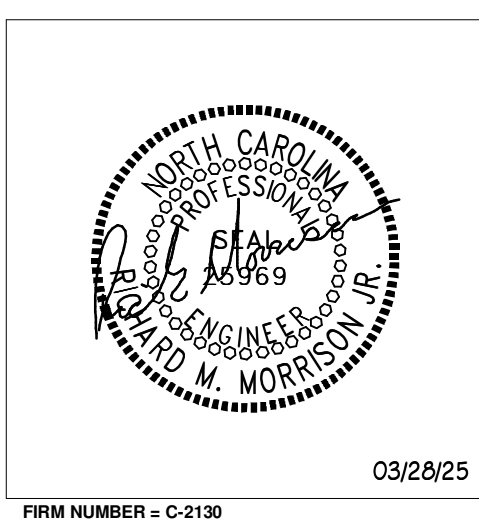
SHEET NUMBER

E-301

MAIN: 200A MCB										VOLTAGE: 208/120		PHASE: 3		WIRE: 4		MOUNTING: SURFACE						AIC: 42,000		NOTES:					
OKT #	BKR	POLE	WIRE	COND	SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE			LOAD (KVA)			MISC			DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR	TRIP	OKT #
#	TRIP													A	B	C	LTG	REC	MTR	A/C	HTG	KIT							
1	60	3	4	1 1/4"		DOOR OPERATOR			5.0																				
3									5.0																				
5									5.0																				
7						SPACE																							
9						SPACE																							
11						SPACE																							
13						SPACE																							
15						SPACE																							
17						SPACE																							
19						SPACE																							
21						SPACE																							
23						SPACE																							
LIGHTING (KVA):							0.0		0.0	0.0	15.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0						
RECEPTILES (KVA):							0.0																						
MOTORS (KVA):							15.0	5.0	0.0					PHASE A	5		41.7												
A/C (KVA):							0.0	5.0	0.0					PHASE B	5		41.7												
HEATING (KVA):							0.0	5.0	0.0					PHASE C	5		41.7												
KITCHEN (KVA):							0.0			SECTS 1+2	SECT 3+4			KVA			AMPS												
MISCELLANEOUS (KVA):							0.0																						
NOTES:																													
1. PANEL SHALL BE SERVICE ENTRANCE RATED.																													
2. PROVIDE 30A/3P BREAKER FOR SURGE PROTECTION DEVICE.																													

PANEL O DEMAND CALCS							
LIGHTING		3.50	KVA	X	125	%	= 4.4 KVA
RECEPTACLE	TOTAL	6.90	KVA				
	1ST	10.00	KVA	X	100	%	= 6.9 KVA
	REMAIN	0.00	KVA	X	50	%	= 0.0 KVA
MOTORS		1.00	KVA	X	100	%	= 1.0 KVA
A/C		22.40	KVA	X	100	%	= 22.4 KVA
HEATING		4.20	KVA	X	100	%	= 4.2 KVA
FUTURE			KVA	X	100	%	= 0.0 KVA
KITCHEN		0.00	KVA	X	65	%	= 0.0 KVA
MISCELLANEOUS		2.20	KVA	X	100	%	= 2.2 KVA
TOTAL	=	114.0	amps	=	41.1	KVA	

PANEL D DEMAND CALCS									
LIGHTING		0.00	KVA	X	125	%	=	0.0	KVA
RECEPTACLE	TOTAL	0.00	KVA						
	1ST	10.00	KVA	X	100	%	=	0.0	KVA
	REMAIN	0.00	KVA	X	50	%	=	0.0	KVA
MOTORS		15.00	KVA	X	100	%	=	15.0	KVA
A/C		0.00	KVA	X	100	%	=	0.0	KVA
HEATING		0.00	KVA	X	100	%	=	0.0	KVA
FUTURE		_____	KVA	X	100	%	=	0.0	KVA
KITCHEN		0.00	KVA	X	65	%	=	0.0	KVA
MISCELLANEOUS		0.00	KVA	X	100	%	=	0.0	KVA
TOTAL	=	41.6	amps	=	15.0				KVA



PO BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747
www.twgarchitects.com
NC Cert. No.: 51140

CONSULTANT DISCIPLINE

CONSULTANT NAME

COPYRIGHT © 2025
THE WILSON GROUP ARCHITECTS
ALL RIGHTS RESERVED

PRINTED OR ELECTRONIC DRAWINGS AND
DOCUMENTATION MAY NOT BE REPRODUCED
IN ANY FORM WITHOUT WRITTEN PERMISSION
FROM THE WILSON GROUP ARCHITECTS

REVISIONS

DATE	03/28/25
PROJECT NUMBER	Project Number
SHEET TITLE	

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER

E-302