



1'-4" 8" 2'-0" 4" 1'-1/2" 1'-0" 2'-0" 0 4" 6" 1'-0" 2'-8" 2'-0" 4" 0 8" 1'-4" 3/4" 1'-0" 4" 0 8" 1'-4" 3/4" 1'-0" 4" 0 1' 2" 1'-0" 8" 0 1' 2" 1'-0" 10'-8" 0 2' 4" 1'-0" 8" 0 2'-8" 5'-4" 3/16" 1'-0" 16' 0 4" 8" 1'-0" 1/8" 1'-0"

**2018 NORTH CAROLINA BUILDING CODE SUMMARY: APPENDIX B**

Name of Project: HARNETT REGIONAL AIRPORT HANGAR PartID / PIN: / 0417004916000  
 Address: 615 AIRPORT ROAD Zip Code: 28339  
 Proposed Use: AIRCRAFT HANGAR (U)  
 Owner or Authorized Agent: BRIAN RAYNOR Phone 910-824-1238 E-Mail braynor@highlandpaving.com  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City ERWIN  County  State NORTH CAROLINA

CONTACT: KELLY J. DODSON

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	N/A	N/A	N/A	N/A	N/A
Civil	4D	SCOTT BROWN	NC PE 27452	(910) 426-6777	sbrown@4d-solutions.com
Electrical	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Fire Alarm	N/A	N/A	N/A	N/A	N/A
Plumbing	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Mechanical	JCE	DOUGLAS L. JENKINS	NC PE 28803	(910) 822-1724	buddy@jenkinsce.pro
Sprinkler-Standpipe	N/A	N/A	N/A	N/A	N/A
Structural	JCE	KELLY J. DODSON	NC PE 42009	(910) 822-1724	kelly@jenkinsce.pro
INTERIOR WALLS	N/A	N/A	N/A	N/A	N/A
Retaining Walls >5' High	N/A	N/A	N/A	N/A	N/A
Building	JCE	KELLY J. DODSON	NC PE 42009	(910) 822-1724	kelly@jenkinsce.pro

2018 NORTH CAROLINA BUILDING CODE:  New Building  Shell / Core  First Time Interior Completions  
 Addition  Phased Construction - Shell Core

2018 NORTH CAROLINA EXISTING BUILDING CODE:  Prescriptive  Alteration Level I  Historic Property  
 Alteration Level II  Change of Use  
 Alteration Level III  Chapter 14

CONSTRUCTED: (date) N/A CURRENT USE (S) (Ch. 3): N/A  
 RENOVATED: (date) N/A PROPOSED USE (S) (Ch. 3): AIRCRAFT HANGAR (GROUP III - NFPA 409)  
 OCCUPANCY RISK CATEGORY (Table 1604.5): Current: N/A Proposed: I

BASIC BUILDING DATA

Construction Type:  I-A  II-A  III-A  IV  V-A  
 I-B  II-B  III-B  IV  V-B  
 Partial  NFPA 13  NFPA 13R  NFPA 13D

Sprinklers:  No  Class  I  II  III  Wet  Dry

Standpipes:  No  Yes (APPENDIX D)  Flood Hazard Area:  No  Yes

Special Inspections Required:  No  Yes

GRASS BUILDING AREA TABLE

FLOOR	EXISTING (sq ft)	NEW (sq ft)	SUBTOTAL
GROUND LEVEL	N/A	9,000	9,000
TOTAL SPACE AREA	N/A	9,000	9,000

ALLOWABLE AREA

Primary Occupancy Classification(s):  
 A-1  A-2  A-3  A-4  A-5  
 Business  Educational  Factory  Hazardous  Institutional  I-1 Condition  I-2 Condition  I-3 Condition  Mercantile  Residential  Storage  Utility and Miscellaneous

Factory:  
 F-1 Moderate  F-2 Low  H-1 Detonate  H-2 Deflagrate  H-3 Combust  H-4 Health  H-5 HPM  
 I-1  I-2  I-3  I-4

Mercantile:  
 R-1  R-2  R-3  R-4  S-1 Moderate  S-2 Low  High-piled  Parking Garage  Open  Enclosed  Repair Garage

Accessory Occupancy Classification(s): NONE  
 Incidental Uses (Table 509): NONE  
 This separation is not exempt as a Non-separated Use (see exceptions).  
 Special Uses (Chapter 4):  402  403  404  405  406  407  408  409  410  411  412  413  
 414  415  416  417  418  419  420  421  422  423  424  425  
 426  427  428  429  430  
 Special Provisions (Chapter 5):  510.2  510.3  510.4  510.5  510.6  510.7  510.8  510.9  
 Mixed Occupancy:  No  Yes Separation: 0 Hr. Exception:

Separated Use Formula 508.4.2: 
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$\frac{N/A}{N/A} + \frac{N/A}{N/A} = - \leq 1.00$

STORY NUMBER	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4	(C) AREA FOR FRONTAGE INCREASE <sup>1, 5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>2, 3</sup>
1	AIRCRAFT HANGAR	9,000	8,500	6113	14613

<sup>1</sup> Frontage area increases from Section 506.3 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = 120 (F)  
 b. Total Building Perimeter = 390 (P)  
 c. Ratio (F/P) = .31 (F/P)  
 d. W = Minimum width (weighted average) of public way = 150 (W) where  $W = \frac{L_1 \times W_1 + L_2 \times W_2}{L_1 + L_2}$   
 e. Percent of frontage increase =  $\frac{F}{P} \times 100 = \frac{.31}{.31} \times 100 = 71$  (%) (Equation 5-5)

FRONTAGE INCREASE WORKSHEET FOR CALCULATIONS:

EXTERIOR WALL	(F) OPEN LENGTH (feet)	(P) TOTAL LENGTH (feet)	(W) (weighted average) WIDTH OF PUBLIC WAY OR OPEN SPACE (feet)	(%) FROM CALC. ABOVE	(B) FROM TABLE ABOVE	AREA INCREASE FOR COLUMN (C) ABOVE (% x TABLE AREA)
North	75	390	30			
South	75	390	30			
East	120	390	30			
West	120	390	26			
TOTAL	75	390	240	71	8500	(71*8500 = 6113)
EXAMPLE	75	100	25	42	23,500	(42*23,500 = 9,870)

<sup>2</sup> Unlimited area applicable under conditions of Section 507  
<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1  
<sup>5</sup> Frontage increase is based on the un-sprinklered area value in Table 506.2.

**BUILDING CODE SUMMARY (continued)**

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	65	31' - 0"	N/A
Building Height in Stories (Table 504.4)	3	1	N/A

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (feet)	RATING ** (TABLE 601)		DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		RED'D III-B	PROVIDED (w/ REDUCTION)				
Structural Frame, including columns, girders, trusses	N/A	0	0	N/A	N/A	N/A	N/A
Bearing Walls	N/A	2	2	N/A	N/A	N/A	N/A
Exterior	N/A	2	2	G1	UL V421	G2	G2
East	N/A	0	0	N/A	N/A	N/A	N/A
West	N/A	0	0	N/A	N/A	N/A	N/A
South	N/A	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Nonbearing walls and partitions	N/A	0	0	N/A	N/A	N/A	N/A
Exterior walls	N/A	0	0	N/A	N/A	N/A	N/A
North	N/A	0	0	N/A	N/A	N/A	N/A
East	N/A	0	0	N/A	N/A	N/A	N/A
West	N/A	0	0	N/A	N/A	N/A	N/A
South	N/A	0	0	N/A	N/A	N/A	N/A
Interior Non-Bearing Walls	N/A	0	0	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joists	0	0	N/A	N/A	N/A	N/A	N/A
Floor Ceiling Assembly	0	0	N/A	N/A	N/A	N/A	N/A
Columns Supporting Floors	0	0	N/A	N/A	N/A	N/A	N/A
Roof construction including supporting beams and joists	0	0	N/A	N/A	N/A	N/A	N/A
Roof Ceiling Assembly	0	0	N/A	N/A	N/A	N/A	N/A
Columns Supporting Roof	0	0	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Exit	0	0	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other	0	0	N/A	N/A	N/A	N/A	N/A
Corridor Separation	0	0	N/A	N/A	N/A	N/A	N/A
Occupancy / Fire Barrier Separation	0	0	N/A	N/A	P1	N/A	N/A
Party/Fire Wall Separation	0	0	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	0	0	N/A	N/A	N/A	N/A	N/A
Smoke Partition	0	0	N/A	N/A	N/A	N/A	N/A
OWNER/Dwelling Unit/ Sleeping Unit Separation	0	0	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation	0	0	N/A	N/A	N/A	N/A	N/A

PERCENTAGE OF WALL OPENING CALCULATIONS

EXTERIOR WALL	FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (TABLE 705.5)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North	N/A	N/A	N/A	N/A
South	N/A	N/A	N/A	N/A
East	N/A	N/A	N/A	N/A
West	N/A	N/A	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:  Yes  No  
 Exit Signs:  Yes  No  
 Fire Alarm:  Yes  No  
 Smoke Detection Systems:  Yes  No Partial  Duct Detectors  
 Carbon Monoxide Detection:  Yes  No  
 Life Safety Systems Generator:  Yes  No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # LS

Fire and/or smoke rated wall locations (Chapter 7)  
 Assumed and real property line locations (if not on the site plan)  
 Exterior wall opening area with respect to distance to assumed property lines (705.6)  
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)  
 Occupant loads for each area  
 Exit access travel distances (1017)  
 Common paths of travel distances [1006.2.1 & 1006.3.2(1)]  
 Dead end lengths (1020.4)  
 Clear exit widths for each exit door  
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)  
 Actual occupant load for each exit door  
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation  
 Location of doors with panic hardware (1010.1.10)  
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)  
 Location of doors with electromagnetic egress locks (1010.1.9.9)  
 Location of doors equipped with hold-open devices  
 Location of emergency escape windows (1030)  
 The square footage of each fire area (903)  
 The square footage of each smoke compartment for Occupancy Classification I-II (407.5)  
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NONE REQUIRED							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	
SEE CIVIL DRAWING					
TOTAL					

**BUILDING CODE SUMMARY (continued)**

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS			URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS		SERVICE SINK
	MALE	FEMALE	UNISEX		MALE	FEMALE		UNISEX	REGULAR	
UTILITY (U)	0	0			0	0				0
PROVIDED (TOTAL)	0	0			0	0				0

\*\*\*NOTE: THIS BUSINESS HAS OCCUPANT LOADS LESS THAN 25. NO HI-LOW DRINKING FOUNTAIN IS REQUIRED.

SPECIAL APPROVALS:

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, ICC, etc., describe below)  
N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:  (if checked, the remainder of this section is not applicable.)

Exempt Building:  Provide code or statutory reference: \_\_\_\_\_

Climate Zone:  3A  4A  5A HARNETT COUNTY

Method of Compliance:  
 Energy Code:  Performance  Prescriptive  
 ASHRAE 90.1:  Performance  Prescriptive  
 Other:  Performance (specify source) \_\_\_\_\_

Value of total assembly: \_\_\_\_\_

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)  
 Description of assembly: METAL BUILDING ROOF PANEL  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: R-10 + R-19 FC  
 Skylights in each assembly: NONE  
 U-Value of skylight: \_\_\_\_\_  
 Total square footage of skylights in each assembly: \_\_\_\_\_

Exterior Walls (each assembly)  
 Description of assembly: METAL BUILDING WALL PANEL WITH R-19 INSULATION  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: R-19  
 Openings (windows or doors with glazing)  
 U-Value of assembly: 0.31 (0.32 MAX)  
 Solar heat gain coefficient: 0.23 (0.25 MAX)  
 Projection factor: \_\_\_\_\_  
 Door R-Values: 2.7

Floors over unconditioned space (each assembly)  
 Description of assembly: N/A  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_

Floors slab on grade  
 Description of assembly: 6" CONCRETE SLAB  
 U-Value of total assembly: \_\_\_\_\_  
 R-Value of insulation: \_\_\_\_\_  
 Horizontal/vertical requirement:  
 slab heated: \_\_\_\_\_

MECHANICAL SUMMARY (SEE DRAWING SHEET M1)  
 ELECTRICAL SUMMARY (SEE DRAWING SHEET E1)

\_\_\_\_\_

**CUMBERLAND COUNTY BUILDING CODE SUMMARY for:**

**HARNETT REGIONAL AIRPORT HANGAR**

AIRPORT RD  
 ERWIN, NORTH CAROLINA, 28339

**JEJENKINS CONSULTING ENGINEERS, PA**  
 OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
 CORPORATION NUMBER CA-3070 MEYER@jejenkins.com  
 PATENTVILLE, NC 28311-1602  
 910.822.1724

05 FEBRUARY 2024

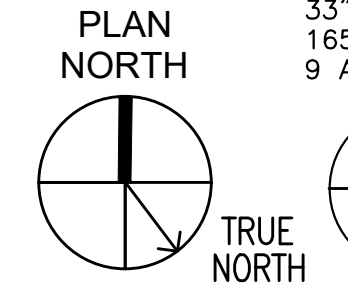
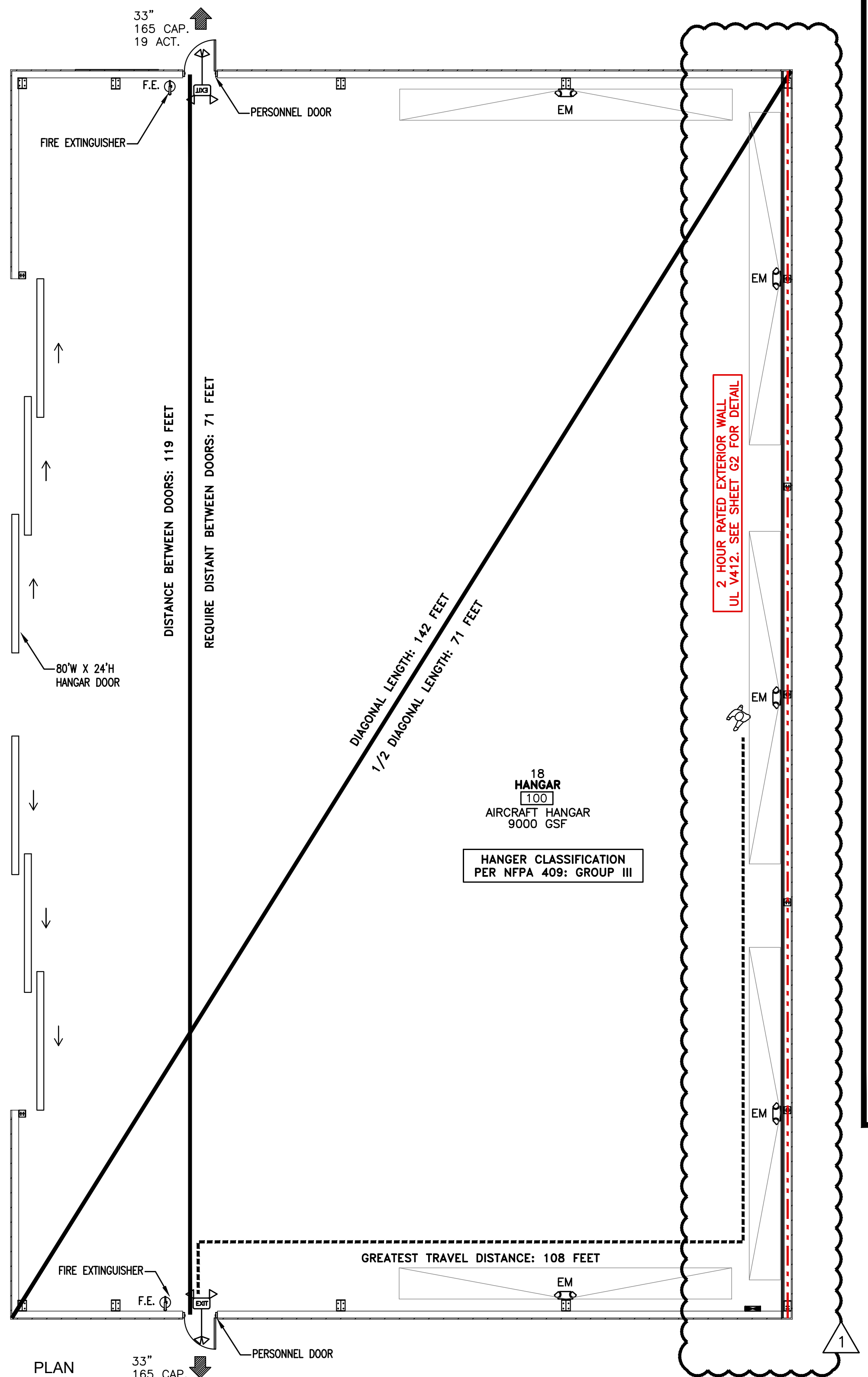
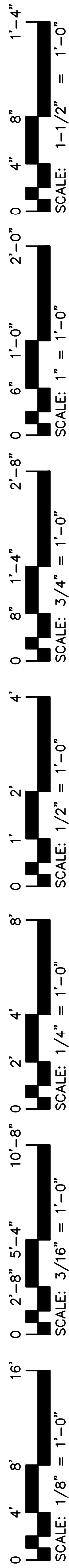
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 DRAWN BY: BT  
 PROJECT #: 2023-06-09  
 DATE: 05 FEBRUARY 2024

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 PRELIMINARY  FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING  FOR CONSTRUCTION

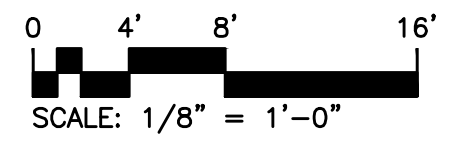
PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 615 AIRPORT RD. ERWIN, NC 28339  
 SHEET: **BUILDING CODE SUMMARY**  
**BCSr1**

REVI: 5 FEB 2024 - 2 HR RATED WALL

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**LIFE SAFETY / EGRESS PLANS**



OCCUPANCY CLASSIFICATION per TABLE 1004.5						
SPACE NUMBER	CURRENT SPACE USE	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	ROOM AREA (GROSS SF)	CALCULATED EGRESS OCCUPANCY TOTAL	ACTUAL BUILDING OCCUPANT TOTAL
100	HANGAR	AIRCRAFT HANGARS	500 GROSS	9000	18	18
TOTAL OCCUPANT COUNT FOR BUILDING & EGRESS CAPACITY						18
THE EGRESS CAPACITY SHALL BE BASED UPON OCCUPANT LOAD OF 18 PERSONS						
(*) DENOTES OCCUPANT NUMBER ACCOUNTED FOR IN OCCUPANT TOTAL						

**AIRCRAFT HANGAR**

GROSS SQUARE FOOTAGE OF BUILDING 9000 SQ. FT.  
 TYPE OF CONSTRUCTION: II-B  
 BUILDING IS TO BE USED AS AN AIRCRAFT HANGAR (U)  
 OCCUPANT LOAD FOR CALCULATING EGRESS CAPACITY:  
 SPACE OCCUPANCY BY FUNCTION OF SPACE  
 SEE TABLE ON THIS SHEET FOR INDIVIDUAL SPACE TOTALS  
 TOTAL OCCUPANT LOAD BY AREAS = 18 PERSONS  
 THIS BUILDING IS NOT PROTECTED BY FIRE SPRINKLERS  
 THERE IS NO FIRE ALARM SYSTEM.  
 GREATEST TRAVEL DISTANCE SHOWN: 108 FEET. (PER 1017)  
 MAXIMUM ALLOWABLE TRAVEL DISTANCE: 300 FEET (PER TABLE 1017.2)  
 THE COMMON PATH OF TRAVEL IS LESS THAN 100 FEET. (PER 1006.2.1)  
 THERE ARE NO DEAD END CORRIDORS OVER 50 FEET. (PER 1020.4)  
 EXIT WIDTH CALCULATIONS:  
 18 PERSONS \* 0.2"/OCCUPANT = 3.6" REQUIRED, 66" TOTAL PROVIDED. (PER 1005.1)  
 NUMBER OF EXITS REQUIRED: TWO (2) ACCESSIBLE  
 NUMBER OF EXITS PROVIDED: TWO (2) ACCESSIBLE  
 EGRESS DOORS DO NOT REQUIRE PANIC HARDWARE. (PER 1010.1.10)  
 DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1010.1.9.7)  
 DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1010.1.9.9)  
 DOORS DO NOT HAVE HOLD OPEN DEVICES.  
 THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1030)  
 NO. OF FIRE EXTINGUISHERS PROVIDED:  
 PROVIDE TWO (2) NEW FIRE EXTINGUISHER AT THIS BUILDING  
 FIRE EXTINGUISHER FOR CLASS A FIRE HAZARDS REQUIRE NO GREATER THAN 75 FT  
 OF MAXIMUM TRAVEL DISTANCE IN LOW, ORDINARY AND EXTRA HAZARD OCCUPANCY.

**LEGEND**

SYMBOL	DESCRIPTION
F.E. ⊕	ABC FIRE EXTINGUISHER SUGGESTED LOCATION
---	GREATEST TRAVEL DISTANCE
33"	EXIT WIDTH, 36" - 3" = 33" CLEAR WIDTH.
165 CAP. 22 ACT.	EXIT CAPACITY (NUMBER OF PERSONS) ACTUAL OCCUPANT LOAD FOR EXIT DOOR
EXIT	EXIT SIGN
EM	EMERGENCY LIGHT
36"	AISLE WIDTH WHERE SHOWN
EXIT WITH LIGHTING	EXIT SIGN WITH EMERGENCY LIGHTING

ROOM LABEL	DESCRIPTION
2	OCCUPANT TOTAL
HANGAR	ROOM NAME
100	ROOM NUMBER
AIRCRAFT HANGAR	FUNCTION TYPE
100 SF	SPACE AREA

REV1: 5 FEB 2024 - 2 HR RATED WALL



OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
 CORPORATION NUMBER C-3070 MAY 2018 EXPIRES 05/31/2024  
 PATENTVILLE, NC 28131-1102  
 910.822.1724

05 FEBRUARY 2024

DESIGNED / CHECKED BY: KJD  
 DRAWN BY: BT  
 PROJECT #: 2023-06-09  
 DATE: 05 FEBRUARY 2024

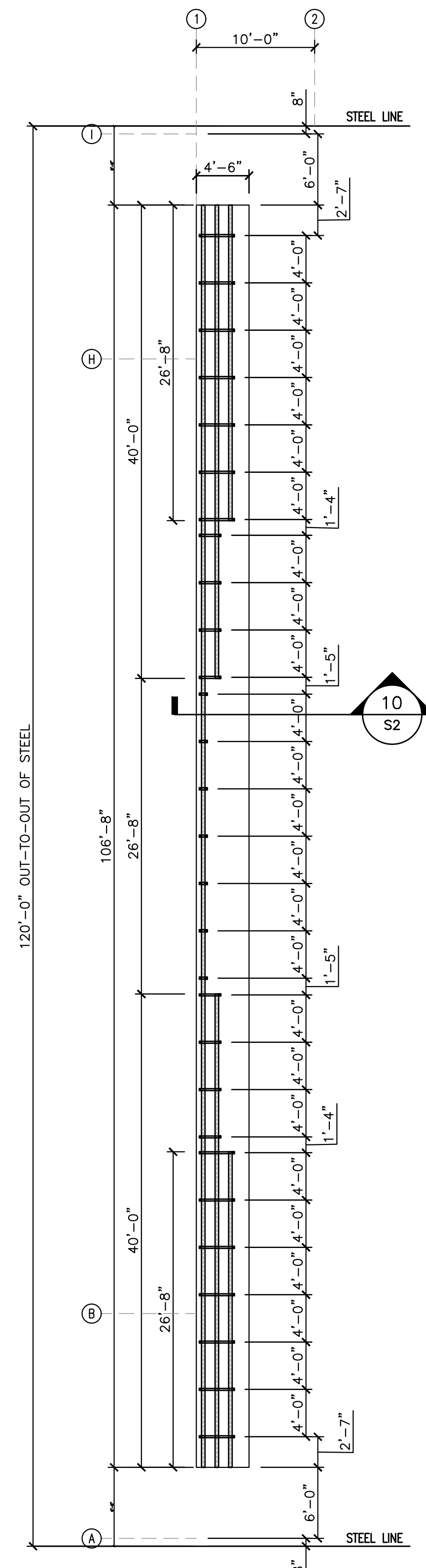
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 PRELIMINARY  FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING  FOR CONSTRUCTION  
 OWNER/TENANT:  
 CONTRACTOR/BUILDER:

PROJECT: HARNETT COUNTY AIRPORT HANGAR  
 615 AIRPORT RD. ERWIN, NC 28339

SHEET: BUILDING LIFE SAFETY - EGRESS PLAN

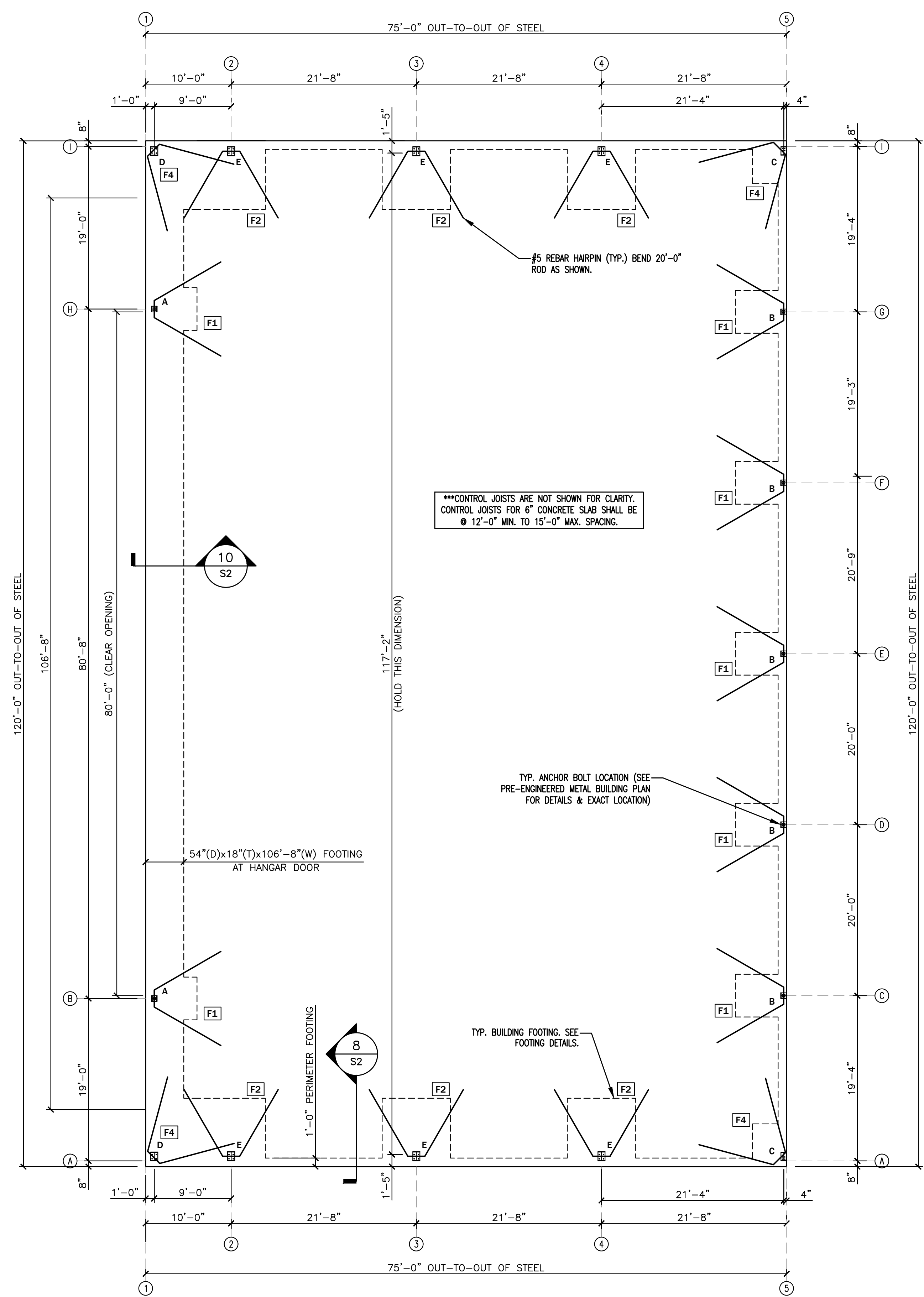
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CONTRACTOR SHALL COORDINATE WITH WELLBILT SHOP DRAWING FOR EXACT LOCATION OF ANCHOR AND DOOR RAILS

**2 HANGAR DOOR ANCHOR PLAN**  
 SCALE: 1/8" = 1'-0"



\*\*\*CONTROL JOISTS ARE NOT SHOWN FOR CLARITY. CONTROL JOISTS FOR 8" CONCRETE SLAB SHALL BE @ 12'-0" MIN. TO 15'-0" MAX. SPACING.

TYP. ANCHOR BOLT LOCATION (SEE PRE-ENGINEERED METAL BUILDING PLAN FOR DETAILS & EXACT LOCATION)

TYP. BUILDING FOOTING. SEE FOOTING DETAILS.

**LEGEND**  
 F3 FOOTING DETAIL NUMBER, SEE DETAIL ON SHEET S2  
 B ANCHOR PLATE, SEE PRE-ENGINEERED METAL BUILDING PLAN FOR DETAIL

**1 PIER & ANCHOR BOLT PLAN**  
 SCALE: 1/8" = 1'-0"



DESIGNED / CHECKED BY: **KJD**  
 DRAWN BY: **BT**  
 PROJECT #: **2023-06-09**  
 DATE: **29 JANUARY 2024**

FINAL DRAWING  FOR REVIEW PURPOSES ONLY  
 PRELIMINARY  FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING  FOR CONSTRUCTION  
 OWNER/TENANT: \_\_\_\_\_  
 CONTRACTOR/BUILDER: \_\_\_\_\_

PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 6.15 AIRPORT RD. ERWIN, NC 28339  
 SHEET: **FOUNDATION PLAN & ANCHOR BOLT PLAN**

**S1**



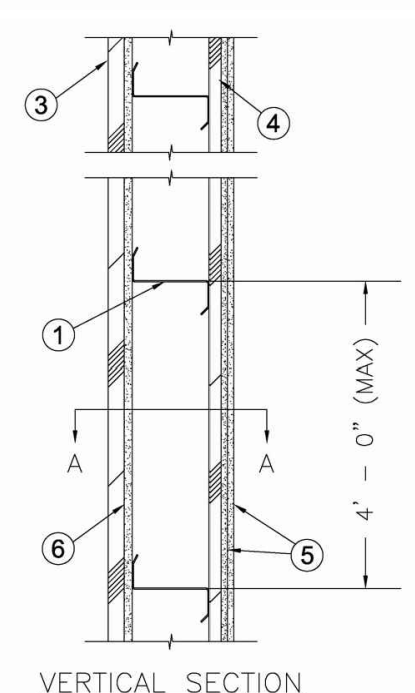
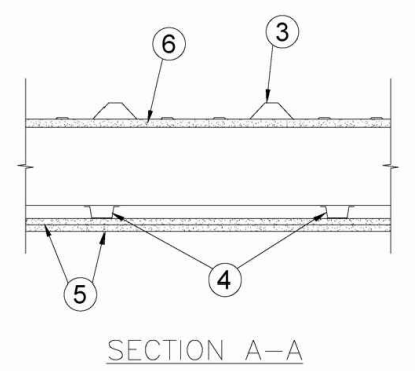


1"=4" SCALE: 1-1/2" = 1'-0"  
 2'-0" 0 4" 8"  
 1"=0" SCALE: 1" = 1'-0"  
 2'-0" 0 6" 1'-0"  
 1"=0" SCALE: 3/4" = 1'-0"  
 2'-8" 0 8" 1'-4"  
 1"=0" SCALE: 3/4" = 1'-0"  
 2'-8" 0 8" 1'-4"  
 1"=0" SCALE: 1/2" = 1'-0"  
 4" 0 1' 2'  
 1"=0" SCALE: 1/4" = 1'-0"  
 8" 0 2' 4"  
 1"=0" SCALE: 1/4" = 1'-0"  
 8" 0 2' 4"  
 1"=0" SCALE: 3/16" = 1'-0"  
 10'-8" 0 2'-8" 5'-4"  
 1"=0" SCALE: 3/16" = 1'-0"  
 16" 0 2'-8" 5'-4"  
 1"=0" SCALE: 1/8" = 1'-0"  
 0 4" 8"

DESIGN NO. V421

AUGUST 4, 2023

NONBEARING WALL RATINGS — 1 & 2 HR  
 \* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.



- GIRTS — "Z" OR "C" SHAPED GIRTS, 0.056 TO 0.120 IN. THICK STEEL, 6 TO 12 IN. DEEP, WITH 2 TO 4 IN. WIDE FLANGES. GIRTS PLACED HORIZONTALLY (WITH FLANGES UP OR DOWN) AND SPACED MAX 48 IN. OC. GIRTS ARE SECURED TO COLUMNS WITH GIRT CLIPS, ITEM 2, OR BOLTED TO THE COLUMN THROUGH THE GIRT FLANGE.
- GIRT CLIPS — (NOT SHOWN) — STEEL SECURED TO COLUMN BY WELDS OR BOLTS.
- STEEL WALL PANELS — MIN NO. 26 MSG, MIN 16 IN. WIDE COATED STEEL PANELS. PANEL JOINTS OFFSET 6 IN. FROM GYPSUM SHEATHING JOINTS. IF ONE LAYER OF EXTERIOR WALLBOARD IS USED, PANELS ARE FASTENED TO THE HORIZONTAL GIRTS WITH 1-1/2 IN. (MIN) LONG NO. 12-14 SELF-DRILLING SCREWS 12 IN. OC. IF TWO LAYERS OF EXTERIOR WALLBOARD ARE USED, PANELS ARE FASTENED TO THE HORIZONTAL GIRTS WITH 2 IN. (MIN) LONG NO. 12-14 SELF-DRILLING SCREWS 12 IN. OC. VERTICAL RAISED RIB PROFILES OF ADJACENT PANELS ARE OVERLAPPED APPROXIMATELY 3 IN. AND ATTACHED TO EACH OTHER WITH 7/8 IN. LONG 1/4-14 (MIN) SELF-DRILLING SCREWS (STITCH SCREWS) 24 IN. OC (MAX) ALONG THE LAP.
- STEEL SIDING OR BRICK — (OPTIONAL, NOT SHOWN) FOR FIRE RESISTANCE RATINGS FROM INSIDE OF WALL ONLY, STEEL SIDING OR BRICK VENEER MEETING THE REQUIREMENTS OF LOCAL CODE AGENCIES, MAY BE INSTALLED OVER ADDITIONAL FURRING CHANNELS (NOT SHOWN), ITEM 4, ON EXTERIOR OF WALL IN PLACE OF STEEL WALL PANELS. BRICK VENEER ATTACHED TO FURRING CHANNELS WITH CORRUGATED METAL WALL TIES ATTACHED TO EACH FURRING CHANNEL WITH STEEL SCREWS, NOT MORE THAN EACH SIXTH COURSE OF BRICK. WHEN A MINIMUM 3-3/4 IN. THICK BRICK VENEER FACING IS USED, THE FIRE RESISTANCE RATING APPLIES FROM EITHER SIDE OF THE WALL.
- FURRING CHANNELS — HAT SHAPED, MINIMUM 25 MSG GALV STEEL, APPROXIMATELY 2-5/8 IN. WIDE, 7/8 IN. DEEP, SPACED 24 IN. OC PERPENDICULAR TO GIRTS. CHANNELS ARE SECURED TO EACH GIRT WITH 3/8 IN. (MIN) LONG SELF-DRILLING PAN HEAD SHEET STEEL TYPE SCREWS. TWO SCREWS ARE USED AT EACH FASTENING LOCATION, ONE THROUGH EACH LEG OF THE FURRING CHANNEL.
- GYPSUM BOARD\* — ANY 1/2 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NO. X515. ANY 5/8 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NOS. L501, G512 OR U305. SEE TABLE UNDER ITEM 6 FOR NUMBER OF LAYERS AND THICKNESS ON INTERIOR FACE OF WALL. ANY 5/8 IN. OR 1/2 IN. THICK GYPSUM BOARD APPLIED HORIZONTALLY OR VERTICALLY. FIRST LAYER ATTACHED TO FURRING CHANNELS, ITEM 4, USING 1 IN. LONG TYPE S BUGLE HEAD GYPSUM BOARD SCREWS SPACED 24 IN. OC. VERTICALLY AND HORIZONTALLY. SECOND LAYER ATTACHED TO FURRING CHANNELS USING 1-5/8 IN. LONG TYPE S BUGLE HEAD GYPSUM BOARD SCREWS SPACED 12 IN. OC. VERTICALLY AND 24 IN. OC. HORIZONTALLY. THIRD LAYER, WHEN USED, ATTACHED TO FURRING CHANNELS USING TYPE S BUGLE HEAD GYPSUM BOARD SCREWS SPACED 12 IN. OC. VERTICALLY AND 24 IN. OC. HORIZONTALLY. 1-7/8 IN. LONG FOR 1/2 IN. GYPSUM BOARD AND 2-1/4 IN. LONG FOR 5/8 IN. GYPSUM BOARD. FOURTH LAYER, WHEN USED, ATTACHED TO STEEL STRAPPING USING 1 IN. LONG (MIN) BUGLE HEAD DRYWALL SCREWS SPACED 8 IN. OC. STEEL STRAPPING FROM FLAT STOCK, 1-1/2 IN. WIDE, FABRICATED FROM 0.020 IN. THICK (25 GAUGE) GALV STEEL. STEEL STRAPPING LOCATED VERTICALLY AND ATTACHED TO THIRD LAYER OF GYPSUM BOARD AT EACH VERTICAL JOINT AND INTERMEDIATE STUD USING 2-5/8 IN. TYPE S BUGLE HEAD DRYWALL SCREWS 12 IN. OC. THE HORIZONTAL OR VERTICAL JOINTS OF THE WALLBOARD ARE OFFSET 24 IN. WHEN 2 SUCCESSIVE LAYERS ARE APPLIED IN THE SAME ORIENTATION.

- AMERICAN GYPSUM CO (VIEW CLASSIFICATION) — CKNX.R14196
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (VIEW CLASSIFICATION) — CKNX.R19374
- CABOT MANUFACTURING ULC (VIEW CLASSIFICATION) — CKNX.R25370
- CERTANTEED GYPSUM INC (VIEW CLASSIFICATION) — CKNX.R3660
- CCC INC (VIEW CLASSIFICATION) — CKNX.R19751
- CERTANTEED GYPSUM INC (VIEW CLASSIFICATION) — CKNX.R18482
- GEORGIA-PACIFIC GYPSUM L L C (VIEW CLASSIFICATION) — CKNX.R2717
- NATIONAL GYPSUM CO (VIEW CLASSIFICATION) — CKNX.R3501
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (VIEW CLASSIFICATION) — CKNX.R7094
- PANEL REY S A (VIEW CLASSIFICATION) — CKNX.R21796
- SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (VIEW CLASSIFICATION) — CKNX.R19262

- THAI GYPSUM PRODUCTS PCL (VIEW CLASSIFICATION) — CKNX.R27517
- UNITED STATES GYPSUM CO (VIEW CLASSIFICATION) — CKNX.R1319
- USG BORAL DRYWALL SFZ LLC (VIEW CLASSIFICATION) — CKNX.R38438
- USG MEXICO S A DE C V (VIEW CLASSIFICATION) — CKNX.R16089
- 5A. GYPSUM BOARD\* — (AS AN ALTERNATE TO ITEM 5) — FASTENED AS DESCRIBED IN ITEM 5. 5/8 IN. THICK, 4 FT. WIDE, PAPER SURFACED, APPLIED VERTICALLY ONLY.  
NATIONAL GYPSUM CO — TYPE SBWB
- 5B. GYPSUM BOARD\* — (AS AN ALTERNATE TO ITEMS 5 AND 5A) — NOMINAL 5/8 IN. THICK, 4 FT WIDE PANELS, APPLIED VERTICALLY ONLY AND SECURED AS DESCRIBED IN ITEM 5.  
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — TYPE QUIETROCK ES
- 5C. WALL AND PARTITION FACINGS AND ACCESSORIES\* — (AS AN ALTERNATE TO ITEMS 5 THROUGH 5C) — NOMINAL 5/8 IN. THICK, 4 FT WIDE PANELS, APPLIED VERTICALLY ONLY AND SECURED AS DESCRIBED IN ITEM 5.  
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — TYPE QUIETROCK 527
- 5D. GYPSUM BOARD\* — (AS AN ALTERNATE TO 5/8 IN. TYPE FSW IN ITEM 5) — NOM. 5/16 IN. THICK GYPSUM PANELS APPLIED VERTICALLY OR HORIZONTALLY. TWO LAYERS OF 5/16 IN. FOR EVERY SINGLE LAYER OF 5/8 IN. GYPSUM BOARD DESCRIBED IN ITEM 5. HORIZONTAL JOINTS ON THE SAME SIDE NEED NOT BE STAGGERED. INNER LAYER OF EACH DOUBLE 5/16 IN. LAYER ATTACHED WITH FASTENERS, AS DESCRIBED IN ITEM 5, SPACED 24 IN. OC. OUTER LAYER OF EACH DOUBLE 5/16 IN. LAYER ATTACHED PER ITEM 5.  
NATIONAL GYPSUM CO — TYPE FSW
- 6. GYPSUM BOARD\* — SEE FOLLOWING TABLE FOR NUMBER OF LAYERS ON EXTERIOR FACE OF WALL. ANY EXTERIOR GRADE 5/8 IN THICK GYPSUM WALLBOARD OR GYPSUM SHEATHING APPLIED HORIZONTALLY OR VERTICALLY. FIRST LAYER ATTACHED TO GIRTS, ITEM 1, USING 1-1/4 IN. LONG (MIN) SELF-DRILLING BUGLE-HEAD SHEET STEEL TYPE GYPSUM BOARD SCREWS SPACED 8 IN. OC. HORIZONTALLY. SECOND LAYER, WHEN USED, ATTACHED TO GIRTS USING 1-5/8 IN. LONG (MIN) SELF-DRILLING BUGLE-HEAD SHEET STEEL TYPE GYPSUM BOARD SCREWS SPACED 8 IN. OC. HORIZONTALLY. THE HORIZONTAL OR VERTICAL JOINTS OF THE GYPSUM BOARD ARE OFFSET 24 IN. IF 2 SUCCESSIVE LAYERS ARE APPLIED IN THE SAME ORIENTATION.

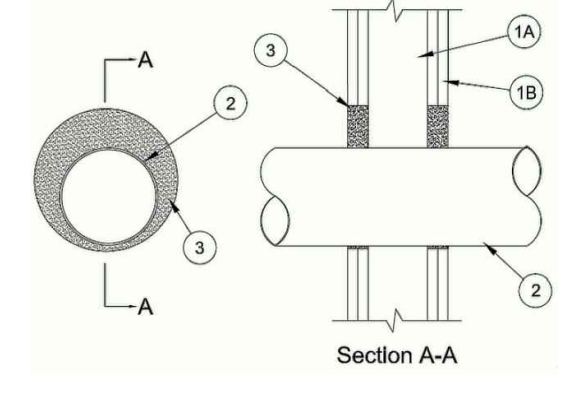
FIRE RESISTANCE FROM BOTH SIDES OF WALL		
RATING	LAYERS 5/8 IN. GYPSUM BOARD (ITEM 5) ON INTERIOR FACE	LAYERS 5/8 IN. GYPSUM BOARD (ITEM 6) ON EXTERIOR FACE
1	1	1
2	2	2
2	3	1

FIRE RESISTANCE FROM INSIDE OF WALL		
RATING	LAYERS 5/8 IN. GYPSUM BOARD (ITEM 5) ON INTERIOR FACE	LAYERS 5/8 IN. GYPSUM BOARD (ITEM 6) ON EXTERIOR FACE
1	3	0
2	4	0

- ANY 1/2 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NO. X515. ANY 5/8 IN. THICK UL CLASSIFIED GYPSUM BOARD THAT IS ELIGIBLE FOR USE IN DESIGN NOS. L501, G512 OR U305. SEE GYPSUM BOARD (CKNX) CATEGORY FOR NAMES OF CLASSIFIED COMPANIES.
- 7. COLUMN PROTECTION — (NOT SHOWN) — HORIZONTAL WALL GIRTS, ITEM 1, ARE ATTACHED TO VERTICAL STRUCTURAL STEEL COLUMNS. SEE COLUMN DESIGN NOS. X524 AND X530 FOR PROTECTION OF COLUMNS.
- 8. BATTS AND BLANKETS\* — (OPTIONAL, NOT SHOWN) — GLASS FIBER BATTS PLACED IN THE CAVITIES OF EXTERIOR WALLS.  
SEE BATTS AND BLANKETS\* (BZJZ) — CATEGORY FOR NAMES OF MANUFACTURERS.
- 8A. FIBER, SPRAYED\* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 8) — (100% BORATE FORMULATION) — SPRAY APPLIED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT WITH A NOMINAL DRY DENSITY OF 2.7 LB/FT3. ALTERNATE APPLICATION METHOD: THE FIBER IS APPLIED WITHOUT WATER OR ADHESIVE AT A NOMINAL DRY DENSITY OF 3.5 LB/FT3, IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT.  
APPLGATE GREENFIBER ACQUISITION LLC — INSULMAX AND SANCTUARY FOR USE WITH WET OR DRY APPLICATION.
- 8B. FIBER, SPRAYED\* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 8) AND ITEM 8A — SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO INTERIOR SURFACES IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. APPLIED TO COMPLETELY FILL THE ENCLOSED CAVITY. MINIMUM DRY DENSITY OF 4.3 POUNDS PER CUBIC FT.  
NU-WOOL CO INC — CELLULOSE INSULATION
- 8C. FIBER, SPRAYED\* — AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 8) — SPRAY APPLIED CELLULOSE FIBER. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. THE MINIMUM DRY DENSITY SHALL BE 4.30 LBS/FT3.  
INTERNATIONAL CELLULOSE CORP — CELBAR-RL
- 9. JOINT TAPE AND COMPOUND — (NOT SHOWN, OPTIONAL) — VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OF FACE LAYER OF GYPSUM BOARD. PAPER OR GLASS FIBER TAPE EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.  
\* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.  
LAST UPDATED ON 2023-08-04

System No. W-L-1064  
 December 02, 2010  
 F Rating — 2 Hr  
 T Rating — 0 Hr



- Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.  
 B. Gypsum Board\* — Two layers of nom 1/2 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 6 in.  
 2. Pipe or Conduit — One nom 4 in. diam Schedule 10 (or heavier) steel pipe, steel conduit or electrical metallic tube (EMT) to be centered within opening. The annular space shall be min 1/4 in. to max 1-1/4 in. Pipe or conduit to be rigidly supported on both sides of wall assembly.  
 3. Forming Material\* — Min 2-1/2 in. thickness of min 4.0 pcf mineral wool forming material firmly packed into annular space and stud cavity in area of wall opening as a permanent form. Forming material to be recessed min 1 in. from both surfaces of wall to accommodate the caulk fill material.  
 THERMAFIBER INC — Type SAF  
 4. Fill, Void or Cavity Material\* — Caulk — Min 1 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.  
 UNITED STATES GYPSUM CO — Type AS

\*Bearing the UL Classification Marking  
 Last Updated on 2010-12-02

REV 1: 5 FEB 2024 - 2 HR RATED WALL



DESIGNED / CHECKED BY: KJD  
 DRAWN BY: BT  
 PROJECT #: 2023-06-09  
 DATE: 05 FEBRUARY 2024

FINAL DRAWING  FOR REVIEW PURPOSES ONLY  
 PRELIMINARY  FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING  FOR CONSTRUCTION  
 OWNER/TEENANT: \_\_\_\_\_  
 CONTRACTOR/BUILDER: \_\_\_\_\_

PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 615 AIRPORT RD. ERWIN, NC 28339  
 SHEET: **2 HOUR RATED PARTITION WALL & RATED PENETRATION ASSEMBLY**

G2r1

BUILDING PROFILE

Width (ft) = 120 Eave Height (ft) = 26
Length (ft) = 75 Roof Slope (Rise/12) = 1.0:12

BUILDING LOADS

- A) THIS IS TO CERTIFY THAT THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY NCBC 18 / IBC 15
B) THIS CERTIFICATION IS LIMITED TO THE STRUCTURAL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED BY THE BUILDING MANUFACTURER AND AS SPECIFIED IN THE CONTRACT.

Table with columns for OCCUPANCY/RISK CATEGORY, WIND LOAD, CLOSURE TYPE, GROUND SNOW LOAD, SNOW BANKING LOADS, COLLATERAL DEAD LOAD, ROOF LIVE LOAD, DEAD LOAD, SEISMIC, and SPECTRAL RESPONSE. Includes values for Normal, 1.0000, 1.00, ULTIMATE, 120 MPH, NOMINAL, 92.95 MPH, WIND EXPOSURE C, Enclosed, INTERNAL WIND COEF., -0.18 / 0.18, 10.00 PSF, ROOF SNOW LOAD 7 PSF, Ca 1.0000, Ct 1.00, PER CODE, 3 PSF, 20.00 PSF (REDUCIBLE Yes), 2.000 PSF (FOR ROOF PANELS AND PURLINS), Ss 0.1860, s1 0.0860, Sds 0.1984, Sd1 0.1376, D, DESIGN RISK CATEGORY C, Ca 0.0662, R 3.000\*, FRAMES 3.000\*, BRACING.

SERVICEABILITY CRITERIA

STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

Table with columns for MINIMUM DESIGN DEFLECTIONS. Rows include Endwall Column, Endwall Rafter (Live), Endwall Rafter (Wind), Wall Girt, Roof Purlin (Live), Roof Purlin (Wind), and Wall Panel. Values range from 60 to 180.

GENERAL NOTES

- A) THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER.
B) THIS METAL BUILDING IS DESIGNED WITH THE BUILDING MANUFACTURER'S STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES.
1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION: \* AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN"
2. AMERICAN IRON AND STEEL INSTITUTE: "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
3. AMERICAN WELDING SOCIETY: "STRUCTURAL WELDING CODE" AWS D1.1.
4. METAL BUILDING MANUFACTURER'S ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL"
C) 1) MATERIAL PROPERTIES OF STEEL PLATE USED IN THE FABRICATION OF PRIMARY RIGID FRAMES, AND OTHER PRIMARY STRUCTURAL EXCLUSIVE OF COLD-FORMED SECTIONS, CONFORM TO ASTM-A529 OR A572 . FLANGES WITH THICKNESS OF ONE INCH OR LESS AND WIDTH OF 12" OR LESS CONFORM TO A529 WITH A MINIMUM YIELD POINT OF 55,000 psi. FLANGES GREATER THAN 1" IN THICKNESS OR 12" IN WIDTH CONFORM TO A572 WITH A MINIMUM YIELD POINT OF 50,000 psi. WEB MATERIAL CONFORMS TO ASTM-A529 WITH A MINIMUM YIELD POINT OF 55,000 psi.
2) MATERIAL PROPERTIES OF PIPE SECTIONS CONFORM TO ASTM-A500, GRADE B WITH A MINIMUM YIELD POINT OF 42,000 psi.
3) MATERIAL PROPERTIES OF TUBE SECTIONS CONFORM TO ASTM-A500, GRADE B WITH A MINIMUM YIELD POINT OF 46,000 psi.
4) MATERIAL PROPERTIES OF HOT ROLLED CHANNEL AND ANGLE MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A529 WITH MINIMUM YIELD POINT OF 50,000 PSI. HOT ROLLED W-SHAPED MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A992 WITH MINIMUM YIELD POINT OF 50,000 PSI.
5) MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO EITHER ASTM A653-06 GR 55 OR A1011-04 HSLAS GRADE 55 WITH YIELD OF 55,000 psi.
6) MATERIAL PROPERTIES OF ROOF/WALL SHEETING, BASE METAL CONFORM TO ASTM-A792 GRADES 80 CLASS 1, 2 OR 3 WITH A MINIMUM YIELD STRENGTH OF 80,000 PSI. COATING OF BASE MATERIAL IS 55% ALUMINUM-ZINC ALLOY IN ACCORDANCE WITH A255 SPECIFICATIONS.
7) CABLE UTILIZED FOR BRACING CONFORMS TO ASTM A475. CABLE BRACING IS TO BE INSTALLED TO A TAUT CONDITION.
8) ROD UTILIZED FOR BRACING MEMBERS CONFORM TO ASTM-A36 WITH MINIMUM YIELD POINT OF 36,000 PSI.
9) IT IS THE RESPONSIBILITY OF ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE "RSCS SPECIFICATION FOR STRUCTURAL JOINTS USING A-325 OR A-490 BOLTS". ALL A-325 BOLTS IN PRIMARY FRAMING MUST BE "SNUG-TIGHT", EXCEPT AS FOLLOWS:
"FULLY-PRETENSION" A-325 BOLTS IF:
a) BUILDING LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODE, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E" OR "F".
b) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5.00 TONS.
c) BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS - REVERSALS ON THE CONNECTIONS.
d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A-325 - SC".

- 10) SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS SHALL ALWAYS BE SNUG TIGHT, UNO.
11) ANCHOR BOLTS 3/4" IN DIAMETER THRU 1 1/4" IN DIAMETER CONFORM TO A.S.T.M. F1554 GR. 36. ANCHOR BOLTS 1/2" IN DIAMETER CONFORM TO A.S.T.M. A-307.
D) UNLESS NOTED OTHERWISE ON FRAMING COLOR CHART: ALL STEEL MEMBERS EXCEPT BOLTS, FASTENERS, CABLE AND RODS SHALL RECEIVE ONE COAT OF STANDARD RED OXIDE SHOP PRIMER.
E) SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS STIPULATED OTHERWISE IN THE CONTRACT.

APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:

- A) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS:
1) BE MADE IN CONTRASTING INK.
2) HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.
3) BE LEGIBLE AND UNAMBIGUOUS.
B) DATED SIGNATURE IS REQUIRED ON ALL PAGES.
C) MANUFACTURER RESERVES THE RIGHT TO RESUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.
D) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE MANUFACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
E) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

SAFETY COMMITMENT

- A) THE BUILDING MANUFACTURER HAS A COMMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF THE BUILDING MANUFACTURER.
B) IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE.
C) LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKER SAFETY.
D) MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES.
E) DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL, AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.

ERECTOR / CONTRACTOR RESPONSIBILITIES

- A) IT IS THE RESPONSIBILITY OF THE ERECTOR/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BUILDING MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.
B) THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
C) APPROVAL OF THE MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE BUILDING MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.4.1 AISC CODE OF STANDARD PRACTICES, LATEST ED.)
D) WHERE DISCREPANCIES EXIST BETWEEN THE MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE LATEST ED.)
E) DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE BUILDING MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE BUILDING MANUFACTURER'S ENGINEERS UNLESS SPECIFICALLY INDICATED.
F) THE ERECTOR/CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE BUILDING MANUFACTURER'S "FOR CONSTRUCTION" DRAWINGS.
G) PRODUCTS SHIPPED TO ERECTOR/CONTRACTOR OR HIS CUSTOMER SHALL BE INSPECTED BY ERECTOR/CONTRACTOR IMMEDIATELY UPON ARRIVAL. CLAIMS FOR SHORTAGES OR DEFECTIVE MATERIAL IF NOT PACKAGED MUST BE SENT TO THE MANUFACTURER IN WRITING WITHIN FIVE (5) DAYS AFTER RECEIPT OF THE SHIPMENT. HOWEVER, IF A DEFECT IS OF SUCH A NATURE THAT REASONABLE VISUAL INSPECTION WOULD FAIL TO DISCLOSE IT, THEN THE CLAIM MUST BE MADE WITHIN FIVE (5) DAYS AFTER THE ERECTOR/CONTRACTOR LEARNS OF THE DEFECT. THE MANUFACTURER WILL NOT BE LIABLE FOR ANY DEFECT UNLESS CLAIM IS MADE WITHIN ONE (1) YEAR AFTER DATE OF THE ORIGINAL SHIPMENT BY THE MANUFACTURER TO CONTRACTOR OR HIS CUSTOMER. THE MANUFACTURER WILL BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT DEFECTIVE MATERIALS UPON RECEIPT OF CLAIM BY CONTRACTOR.
IF A DEFECT IS OF SUCH NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB SITE WITHOUT THE NECESSITY OF RETURNING THE MATERIAL TO THE MANUFACTURER, THEN UPON WRITTEN AUTHORIZATION OF THE MANUFACTURER THE CONTRACTOR MAY REPAIR OR CAUSE THE MATERIAL TO BE REPAIRED AND THE MANUFACTURER WILL REIMBURSE THE CONTRACTOR FOR THE COST OF THE REPAIR IN ACCORDANCE WITH THE WRITTEN AUTHORIZATION.
THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIFT PINS TO DRAW THE COMPONENTS IN TO LINE, MODERATE AMOUNTS OF REAMING, CHIPPING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM.
H) ALL BRACING AS SHOWN AND PROVIDED BY THE MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.
I) TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.10.3 AISC CODE OF STANDARD PRACTICE, LATEST ED.)
J) METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND WORKMANSHIP OF FOUNDATION. ANCHOR BOLT PLANS PREPARED BY MBM ARE INTENDED TO SHOW ONLY LOCATION, DIAMETER AND PROJECTION OF THE ANCHOR RODS REQUIRED TO ATTACH THE METAL BUILDING SYSTEM TO FOUNDATION. IT IS RESPONSIBILITY OF THE END CUSTOMER TO ENSURE THAT ADEQUATE PROVISIONS ARE MADE FOR SPECIFYING ROD EMBEDMENT, BEARING VALUES, THE RODS AND OTHER ASSOCIATED ITEMS EMBEDDED IN THE CONCRETE FOUNDATION, AS WELL AS FOUNDATION DESIGN FOR THE LOADS IMPOSED BY MB SYSTEM, OTHER IMPOSED LOAD, AND THE BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE (MBMA 06 SECTIONS 3.2.2 AND A3)
K) METAL BUILDING MANUFACTURER DOES NOT PROVIDE ANY FIELD SUPERVISION FOR THE ERECTION, NOR DOES MBM PERFORM ANY INSPECTIONS DURING OR AFTER ERECTION.

COMPONENTS & CLADDING (unfactored)

Table with 2 columns: Component and Value. Rows include Wall Field Values = 32.081 psf / -34.755 psf and Wall Edge Values = 32.081 psf / -42.695 psf.

IT IS THE RESPONSIBILITY OF THE CUSTOMER TO PROVIDE ALL DOCUMENTATION REQUIRED FOR ANY ACCESSORIES NOT PROVIDED BY MBM TO THEIR LOCAL PERMITTING OFFICE. ALL ACCESSORIES MUST COMPLY AND MEET ALL DESIGN REQUIREMENTS PER LOCAL CODES.

ALL VEHICULAR FRAMED OPENINGS SUPPLIED ON THIS PROJECT HAVE BEEN DESIGNED TO SUPPORT WIND LOADS NORMAL TO A DOOR SYSTEM, BASED ON THE STANDARD BUILDING CODE CRITERIA. THE VEHICULAR FRAMED OPENING HAS NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCE FROM THE DOOR SYSTEM. ANY CHANGES TO THE INFORMATION SHOWN HERE WOULD REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

FRAMING COLORS

Table with columns for Rigid Frame, Flange braces, Angle, and Endwall. Rows include U SECTION, C SECTION, D SECTION, Z SECTION, E SECTION, R SECTION, and W SECTION. Values are RO, GP, GZ, or blank.

WHEN GALVANIZED PROVIDED: ALL FINISHED PRIMARY BUILT-UP AND HOT ROLL MEMBERS ARE HOT DIPPED GALVANIZED. ALL SECONDARY COLD FORMED MEMBERS ARE PRE-GALVANIZED.



DRAWING INDEX

Table with columns: REV., PAGE, DESCRIPTION. Rows include 0 COVER PAGE, 1 ANCHOR BOLT LAYOUT, 1.1 ANCHOR BOLT DETAILS, 1.2 ANCHOR BOLT REACTIONS, 2 ROOF FRAMING LAYOUT, 2.1-2.4 RIGID FRAME CROSS SECTION, 3 SIDEWALL FRAMING LAYOUT, 4 ENDWALL FRAMING LAYOUT, 4.1 HANGER DOOR FRAMING, 4.2 HANGER DOOR DETAILS, 5-5.4 FRAMING DETAILS, 6 ROOF PANELS & TRIM, 6.1 ROOF PANEL DETAILS, 7 SIDEWALL PANELS & TRIM, 7.1 SIDEWALL PANEL DETAILS, 8 ENDWALL PANELS & TRIM, 8.1 ENDWALL PANEL DETAILS, 9 SPECIAL DETAILS, 10 LINER SHEETING & TRIM.

THIS PROJECT IS DESIGNED AS AN ENCLOSED BUILDING. ACCESSORIES (DOORS, WINDOWS, ETC.) BY OTHERS MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE TO SPECIFIC WIND PROVISIONS OF REFERENCED BUILDING CODE.

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS OR EXTERIOR SYSTEMS NOT PROVIDED BY MBM SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS.

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632



DRAWING STATUS

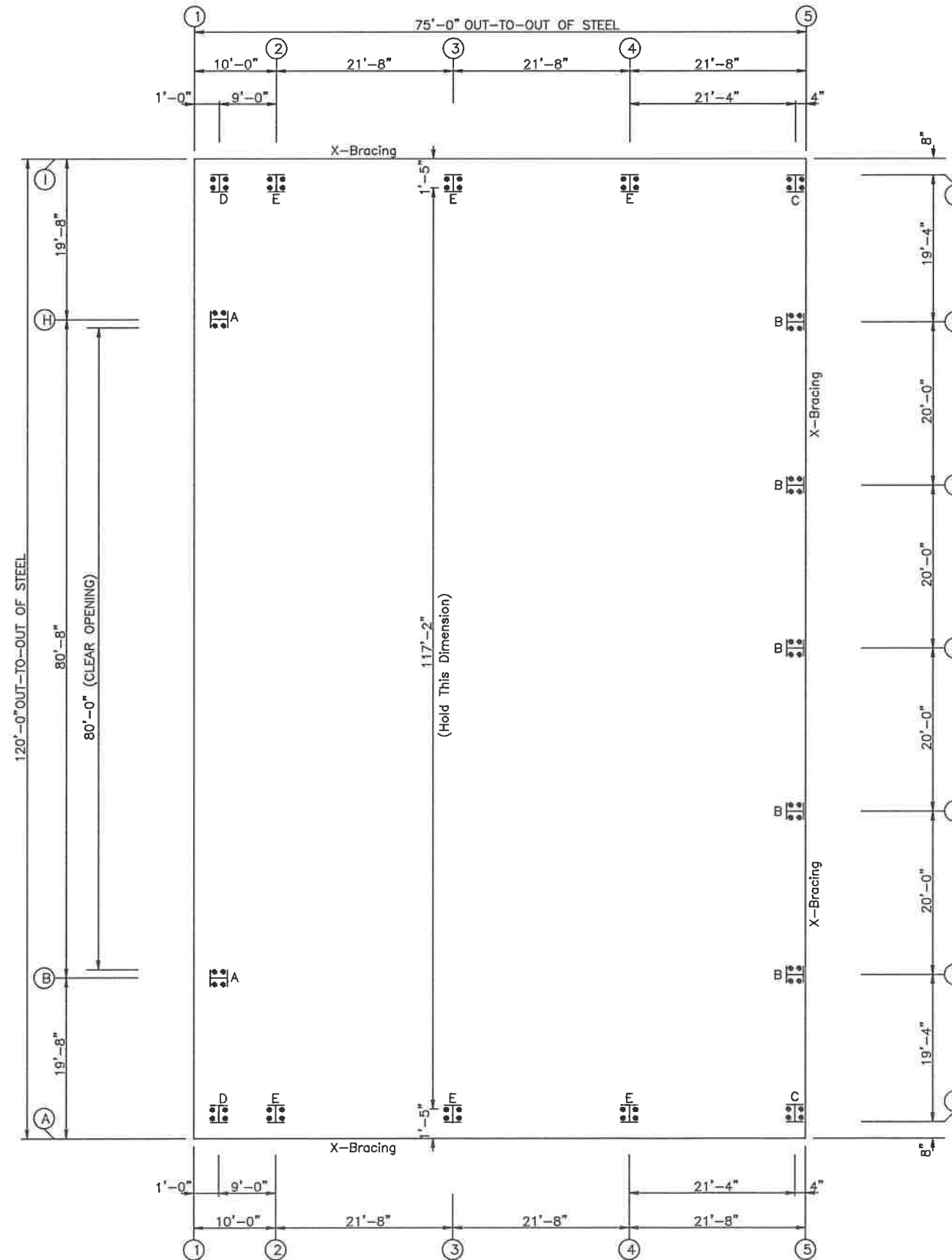
- FOR APPROVAL: THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
FOR PERMIT: THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
FOR CONSTRUCTION: THESE DRAWINGS ARE FINAL AND ISSUED FOR FIELD USE FOR BUILDING ERECTION

Table with columns: DATE, CHK, DET, ISSUE, FOR, FROM, JOB NO, DATE, BY, SCALE, TITLE, NUMBER. Includes values: ERWIN HANGAR, 615 AIRPORT RD, ERWIN, NC 28339, STEELCOR BUILDINGS, 4084 LYNDBURST COURT, SARASOTA, FL. 34235, 8245, 10/26/23, DAR, NONE, COVER PAGE, PAGE 0.

JOBSITE: ERWIN, NC 28339



⊕ Dia= 3/4"  
 ⊕ Dia= 7/8"

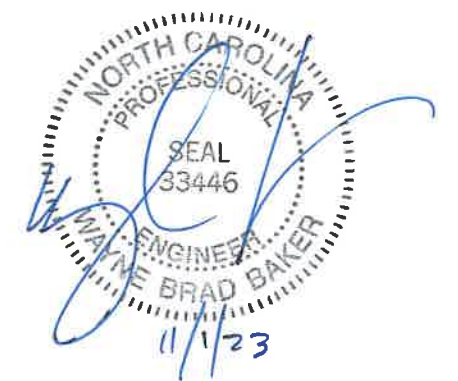


ANCHOR BOLT PLAN  
 NOTE: All Base Plates @ 100'-0" (Unless Noted)

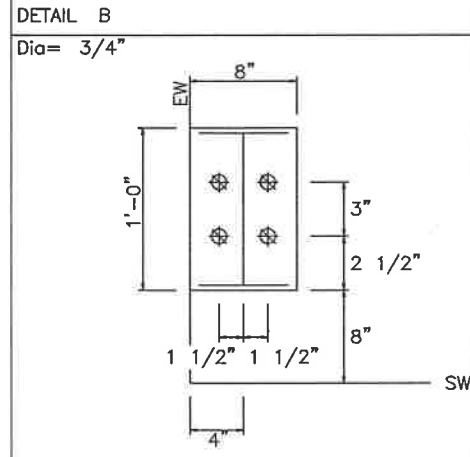
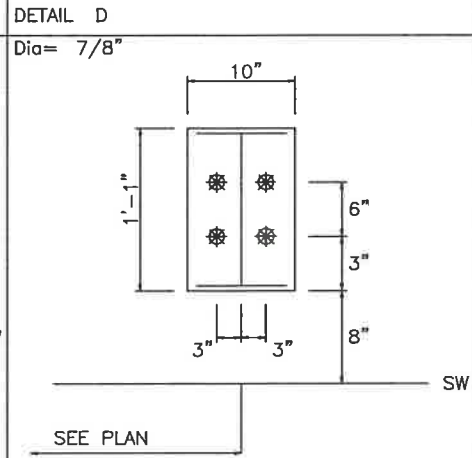
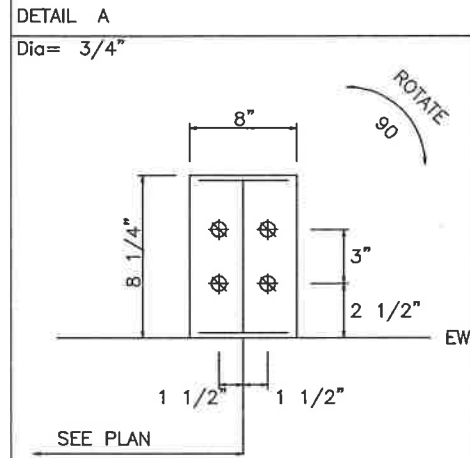
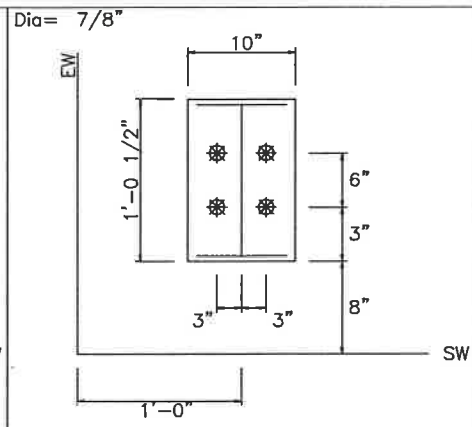
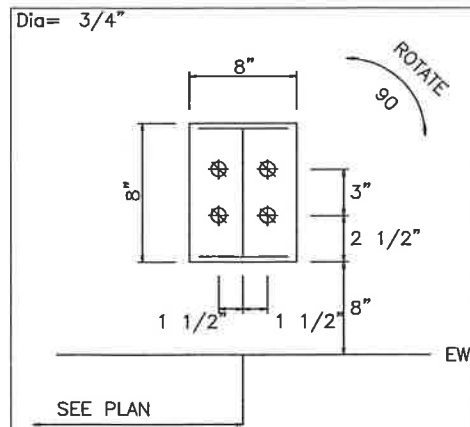
NOTE: ALL FIELD LOCATED FRAMED OPENING LOCATIONS SHALL BE AT THE DISCRETION OF THE ERECTOR/CUSTOMER. IT IS RECOMMENDED THAT THESE ANCHORS BE LOCATED AT TIME OF ERECTION.

FIELD LOCATE:  
 (2) 3070 WALKDOORS

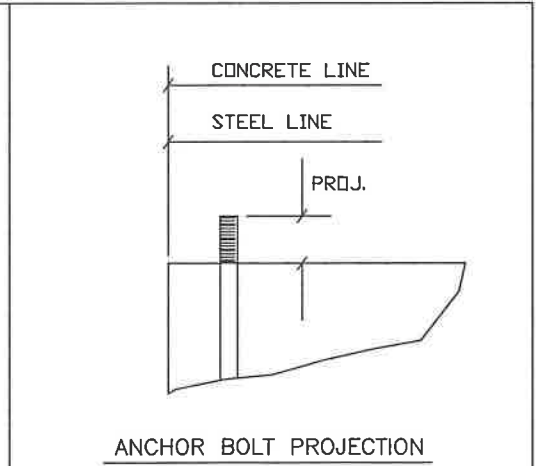
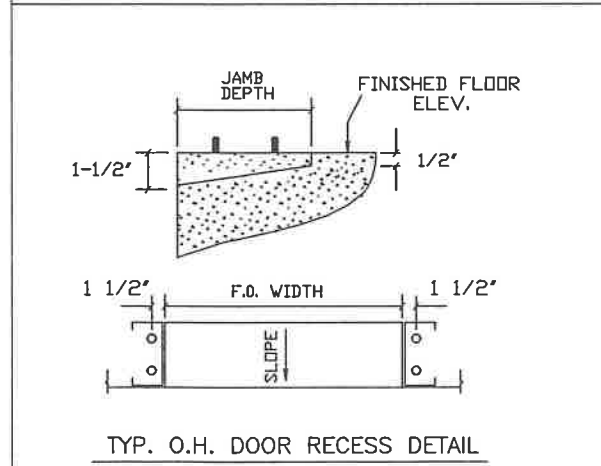
Wayne Brad Baker, P.E.  
 235 Sanders Rd.  
 Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ANCHOR BOLT LAYOUT			
DRAWING NO: PAGE 1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



DETAIL C

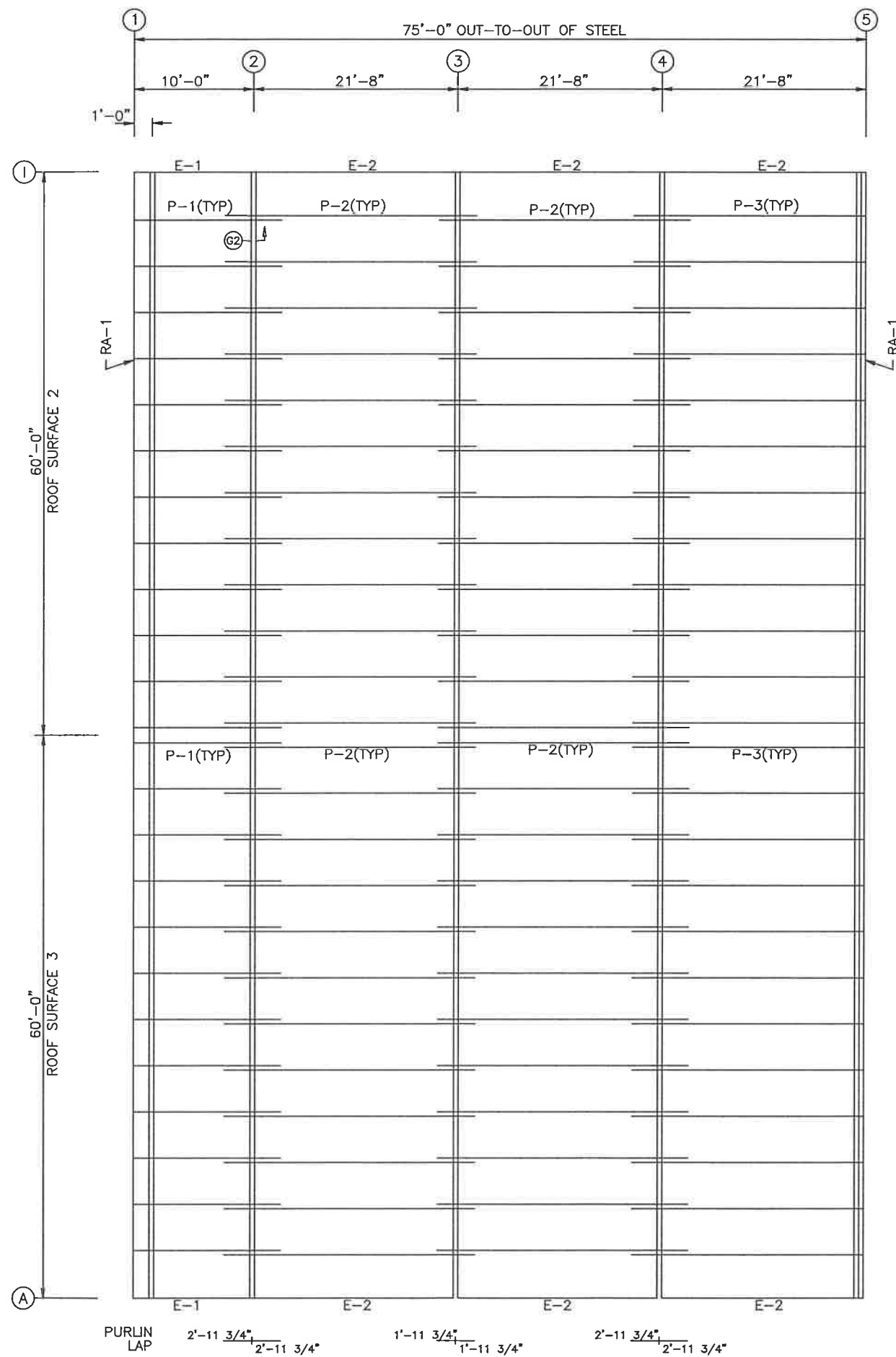


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Hahira, GA 31632

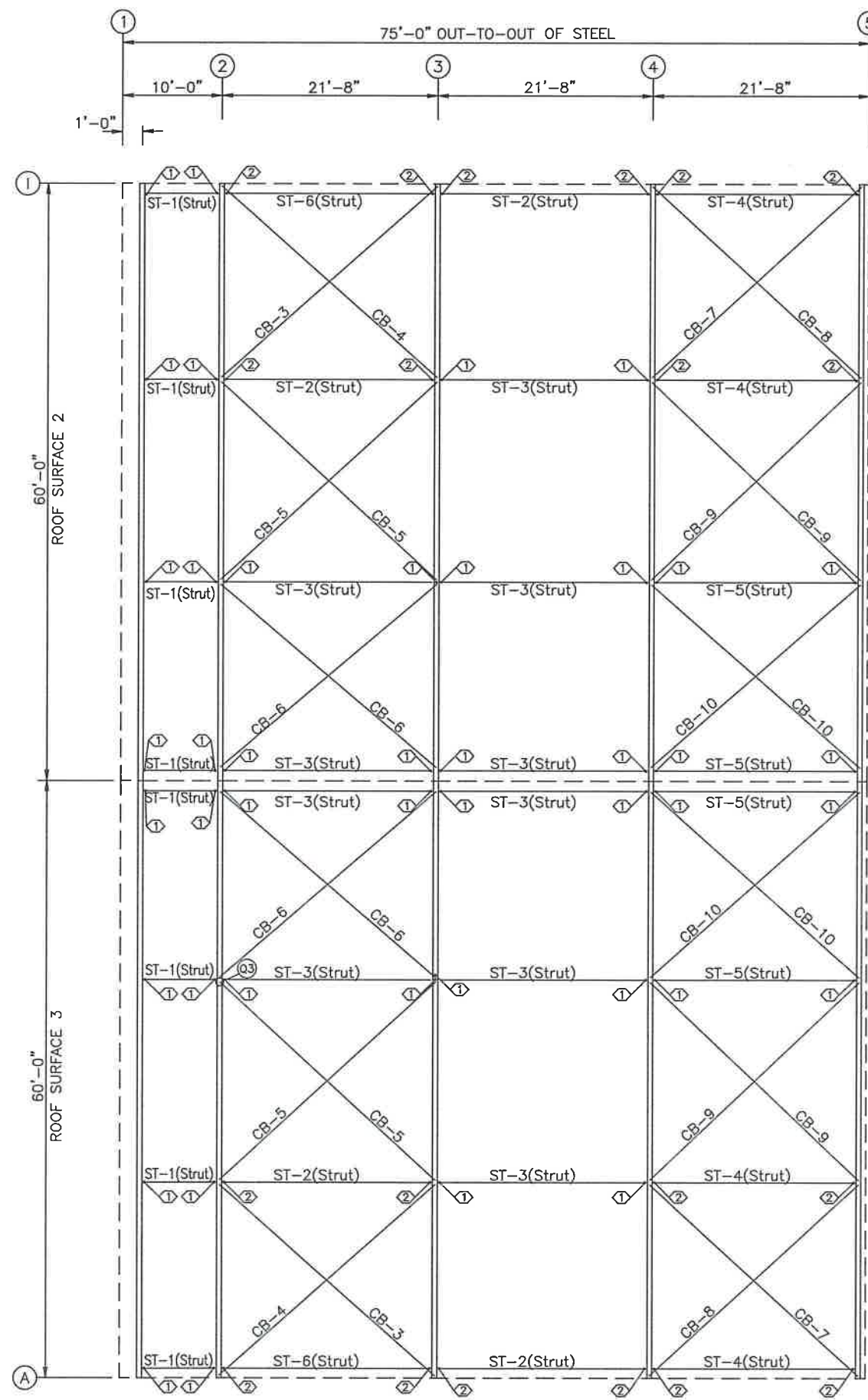


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	LOCATION: ERWIN, NC 28339		DATE: 10/26/23
DRAWING NAME: ANCHOR BOLT DETAILS			
DRAWING NO: PAGE 1.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE





ROOF FRAMING PLAN



ROOF BRACING PLAN

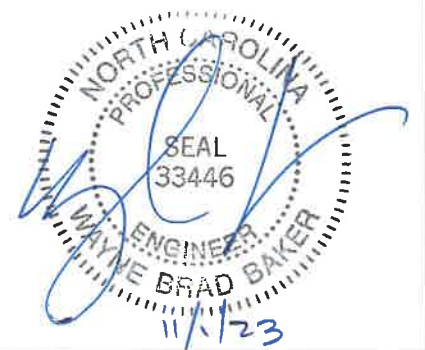
SPECIAL BOLTS  
ROOF PLAN

Q ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	5/8"	2"	0
2	4	A325	5/8"	2"	0

MEMBER TABLE  
ROOF PLAN

MARK	PART	LENGTH
P-1	8x25Z16	12'-11 1/2"
P-2	8x25Z16	26'-7 1/2"
P-3	8x25Z14	24'-7 1/2"
E-1	8LE14@1	9'-11 1/2"
E-2	8LE14@1	21'-7 1/2"
ST-1	8X7DC14	8'-8 1/4"
ST-2	8X7DC14	21'-4 1/4"
ST-3	8X7DC14	21'-4 1/4"
ST-4	8X7DC14	21'-0 1/4"
ST-5	8X7DC14	21'-0 1/4"
ST-6	8X7DC12	21'-4 1/4"
CB-3	0.75_ROD	28'-6"
CB-4	0.75_ROD	28'-7"
CB-5	0.75_ROD	29'-9"
CB-6	0.50_ROD	29'-6"
CB-7	0.75_ROD	28'-0"
CB-8	0.75_ROD	28'-3"
CB-9	0.75_ROD	29'-6"
CB-10	0.50_ROD	29'-3"

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Hahira, GA 31632



ISSUE	DET	CHK	DATE

STEELCOR BUILDINGS

CUSTOMER: ERWIN HANGAR

JOB NO: 8245 DATE: 10/26/23

LOCATION: ERWIN, NC 28339

DRAWING NAME: ROOF FRAMING LAYOUT

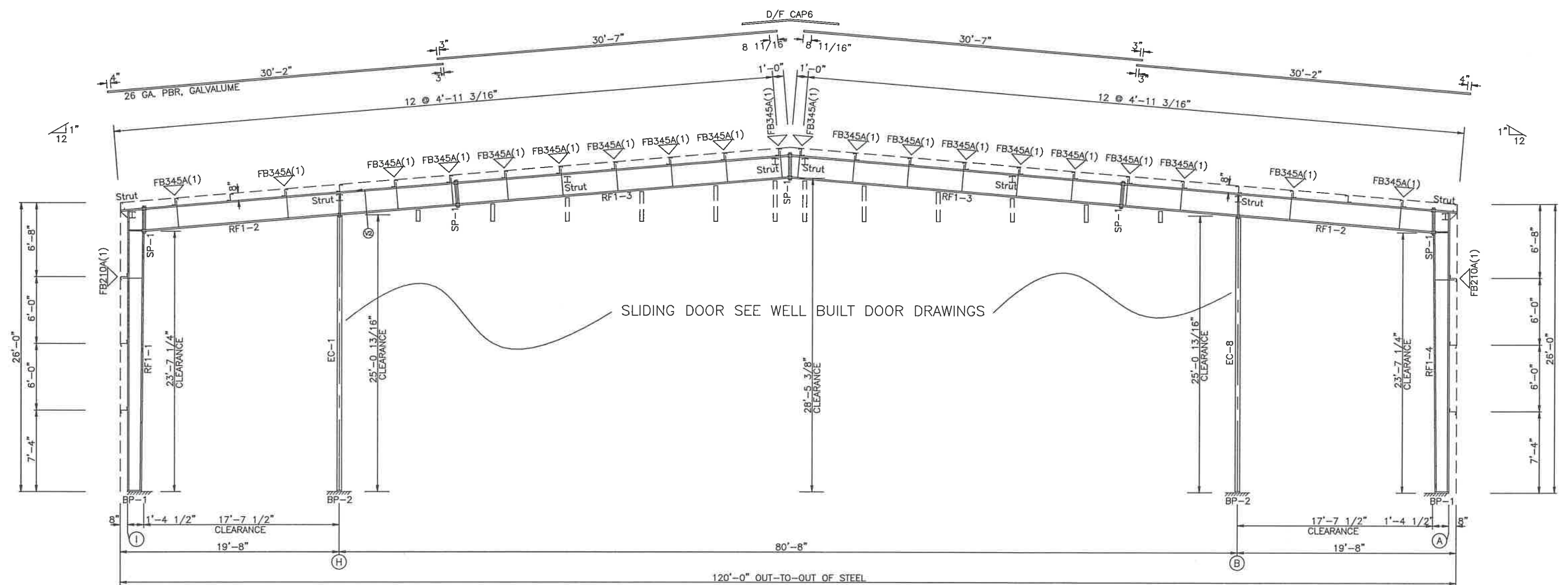
DRAWING NO: PAGE 2 DRAWN BY: DAR CHECKED BY: SPW SCALE: NONE

SPLICE BOLT TABLE						CAP PLATE BOLTS					
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length	MARK	Qty	TYPE	DIA	Length
SP-1	4	4	0	A325	5/8"	2"	EC-1	4	A325T	5/8"	2"
							EC-8	4	A325T	5/8"	2"

BASE PLATE TABLE			
COL MARK	PLATE SIZE Width	THICK	Length
BP-1	10"	1/2"	1'-0 1/2"
BP-2	8"	3/8"	8"

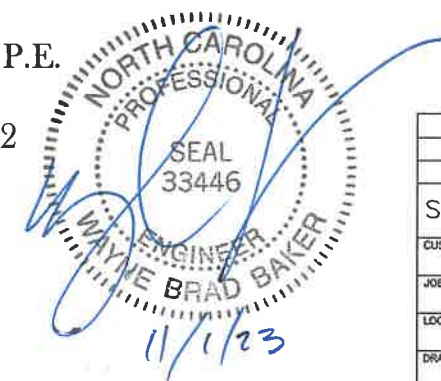
MEMBER TABLE									
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length			
RF1-1	497	12.0/13.8 13.8/16.0	0.135 0.135	10'-6 1/4" 14'-11"	6 x 1/4" x 20'-0" 6 x 1/4" x 5'-3 7/8"	6 x 1/4" x 20'-0" 6 x 1/4" x 3'-3 3/16"			
RF1-2	915	22.0/22.0 22.0/22.0	0.188 0.188	14'-11" 13'-3"	6 x 1/4" x 2'-0 5/16" 6 x 1/4" x 20'-0"	6 x 1/2" x 18'-1 3/4" 6 x 5/8" x 10'-0 3/16"			
RF1-3	682	22.0/22.0 22.0/22.0	0.135 0.135	14'-11" 13'-1"	6 x 1/4" x 20'-0" 6 x 1/4" x 10'-0"	6 x 1/4" x 20'-0" 6 x 1/4" x 9'-10 1/8"			
RF1-4	497	16.0/13.8 13.8/12.0	0.135 0.135	2'-0" 14'-11" 10'-6 1/4"	6 x 1/4" x 2'-0 5/16" 6 x 1/4" x 5'-3 7/8" 6 x 1/4" x 20'-0"	6 x 1/4" x 3'-3 3/16" 6 x 1/4" x 20'-0"			
EC-1	620	WBX24							
EC-8	620	WBX24							

FLANGE BRACES: (1) One Side; (2) Two Sides  
 FBxxA(1); xx=length(in)  
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 1

Wayne Brad Baker, P.E.  
 235 Sanders Rd.  
 Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

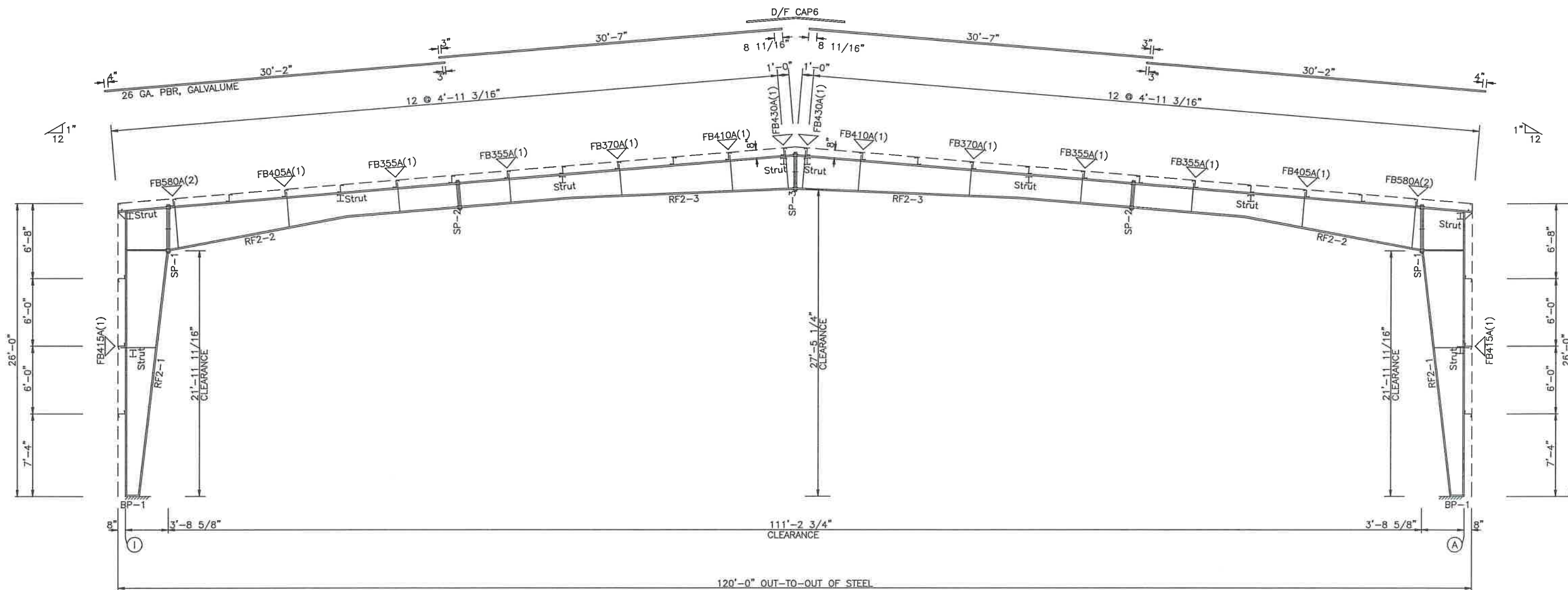
NOTE: THE FRAMING AS DEPICTED ABOVE IS NOT DESIGNED TO ACCOMMODATE ANY FUTURE EXPANSION.

SPLICE BOLT TABLE						
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length
SP-1	4	4	2	A325	7/8"	3"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	Width	THICK	Length
BP-1	10"	5/8"	1'-1"

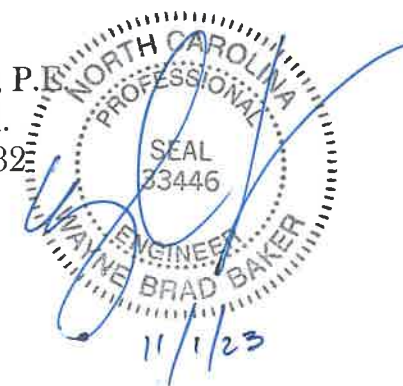
MEMBER TABLE							
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length	
RF2-1	1307	12.0/21.9	0.250	6'-7 13/16"	8 x 5/16" x 20'-0"	8 x 5/16" x 19'-8 3/4"	
		21.9/44.0	0.250	14'-11"	8 x 5/16" x 5'-3 11/16"	8 x 5/16" x 2'-0"	
		44.0/44.0	0.313	4'-0 9/16"	8 x 5/16" x 4'-4 7/16"		
RF2-2	1146	44.0/26.5	0.250	13'-10 9/16"	8 x 5/16" x 16'-0 7/8"	8 x 5/16" x 15'-11 5/8"	
		26.5/24.0	0.250	2'-0"	8 x 1/4" x 9'-6"	8 x 1/4" x 10'-0"	
		24.0/24.0	0.188	10'-0"			
RF2-3	919	24.0/24.0	0.188	10'-0 3/8"	6 x 1/4" x 20'-0"	6 x 1/4" x 10'-0 5/16"	
		24.0/31.5	0.188	14'-11"	6 x 1/4" x 10'-0 3/8"	6 x 1/4" x 19'-9 3/8"	
		31.5/34.0	0.188	5'-1"			

FLANGE BRACES: (1) One Side; (2) Two Sides  
 FBxxA(1): xx=length(in)  
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 2

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 235 Sanders Rd.  
 Hahira, GA 31632



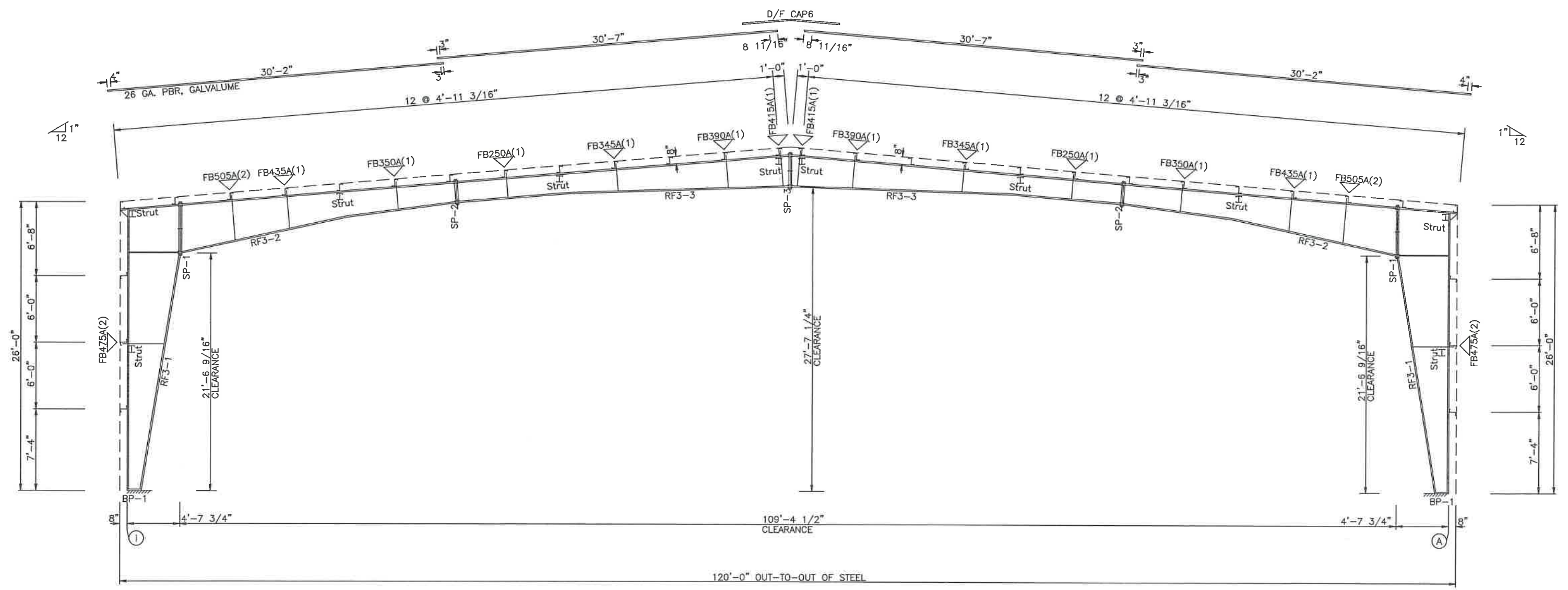
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.2	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

SPLICE BOLT TABLE						
MARK	Qty Top	Qty Bot	Qty Int	TYPE	DiA	Length
SP-1	4	4	2	A325	7/8"	2 1/2"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	PLATE SIZE Width	THICK	Length
BP-1	10"	3/4"	1'-1"

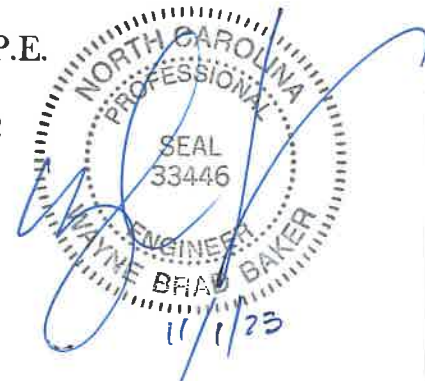
MEMBER TABLE						
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-1	1715	12.0/33.9 33.9/55.0	0.313 0.313	10'-9 3/16" 14'-11"	8 x 3/8" x 20'-0" 8 x 3/8" x 5'-3 9/16" 8 x 5/16" x 5'-3 9/16" 8 x 5/16" x 15'-1 7/8" 8 x 1/4" x 9'-6"	8 x 3/8" x 19'-5 3/16" 8 x 3/8" x 2'-0"
RF3-2	1170	50.0/29.2 29.2/26.0 26.0/20.0	0.250 0.250 0.188	13'-0 1/16" 2'-0" 10'-0"	8 x 5/16" x 15'-1 11/16" 8 x 5/16" x 10'-0 1/8"	
RF3-3	851	20.0/20.0 20.0/29.1 29.1/32.0	0.188 0.188 0.188	10'-0 1/4" 14'-11" 5'-1"	6 x 1/4" x 20'-0" 6 x 1/4" x 10'-0 1/4"	6 x 1/4" x 10'-0 3/16" 6 x 1/4" x 19'-9 5/8"

FLANGE BRACES: (1) One Side; (2) Two Sides  
 FBxxA(1); xx=length(in)  
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 3

Wayne Brad Baker, P.E.  
 235 Sanders Rd.  
 Hahira, GA 31632



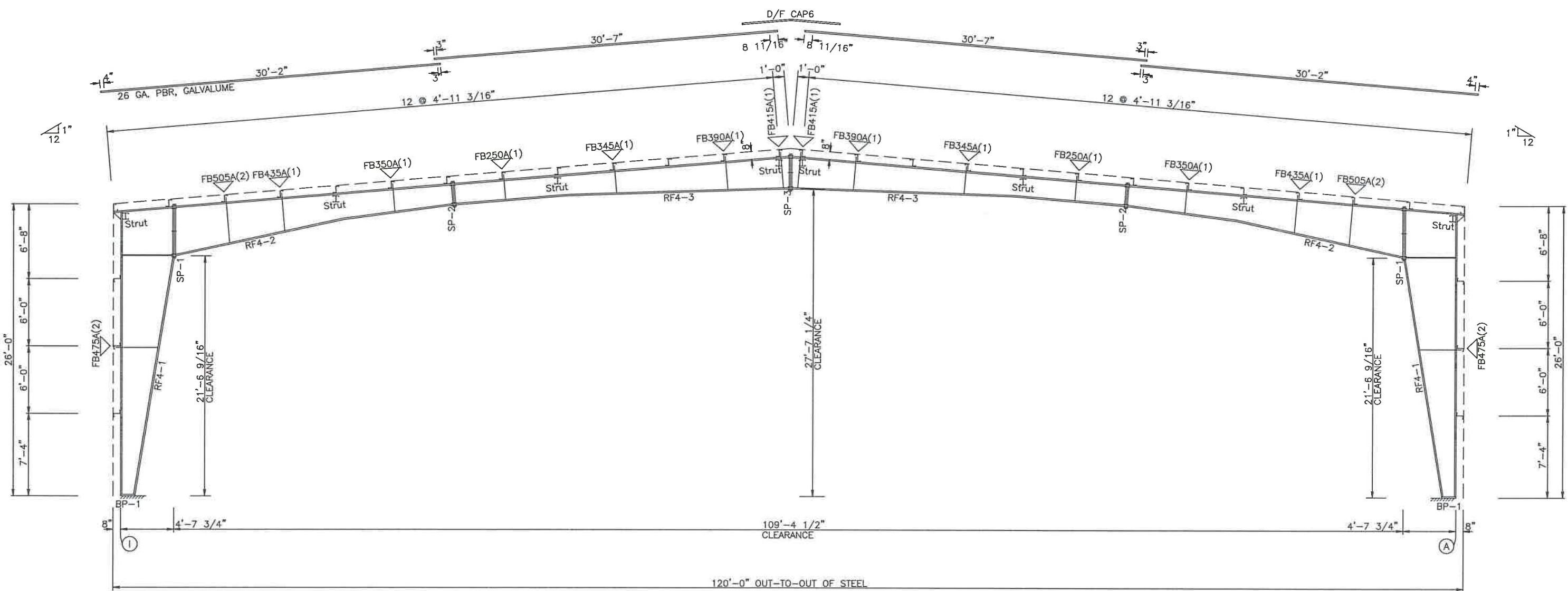
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.3	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

SPLICE BOLT TABLE						
MARK	Qty Top	Qty Bot	Int	TYPE	DIA	Length
SP-1	4	4	2	A325	7/8"	2 1/2"
SP-2	4	4	0	A325	3/4"	2"
SP-3	4	4	2	A325	5/8"	2"

BASE PLATE TABLE			
COL MARK	PLATE SIZE Width	THICK	Length
BP-1	10" 5/8"	1'-1"	

MEMBER TABLE							
MARK	Weight	Web Depth Start/End	Web THICK	PLATE Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length	
RF4-1	1678	12.0/33.9 33.9/55.0	0.313 0.313	10'-9 5/16" 14'-11"	8 x 3/8" x 20'-0" 8 x 3/8" x 5'-3 11/16" 8 x 5/16" x 5'-3 9/16" 8 x 5/16" x 15'-1 7/8"	8 x 3/8" x 19'-5 5/16" 8 x 3/8" x 2'-0"	
RF4-2	1163	50.0/29.2 29.2/26.0 26.0/20.0	0.250 0.250 0.188	13'-0 1/16" 2'-0" 10'-0"	8 x 1/4" x 9'-6"	8 x 5/16" x 15'-1 11/16" 8 x 5/16" x 10'-0 1/8"	
RF4-3	851	20.0/20.0 20.0/29.1 29.1/32.0	0.188 0.188 0.188	10'-0 1/4" 14'-11" 5'-1"	6 x 1/4" x 20'-0" 6 x 1/4" x 10'-0 1/4"	6 x 1/4" x 10'-0 3/16" 6 x 1/4" x 19'-9 5/8"	

FLANGE BRACES: (1) One Side; (2) Two Sides  
 FBxxA(1): xx=length(in)  
 A - L2x2x14



RIGID FRAME ELEVATION: FRAME LINE 4

Wayne Brad Baker, P.E.  
 235 Sanders Rd.  
 Hahira, GA 31632

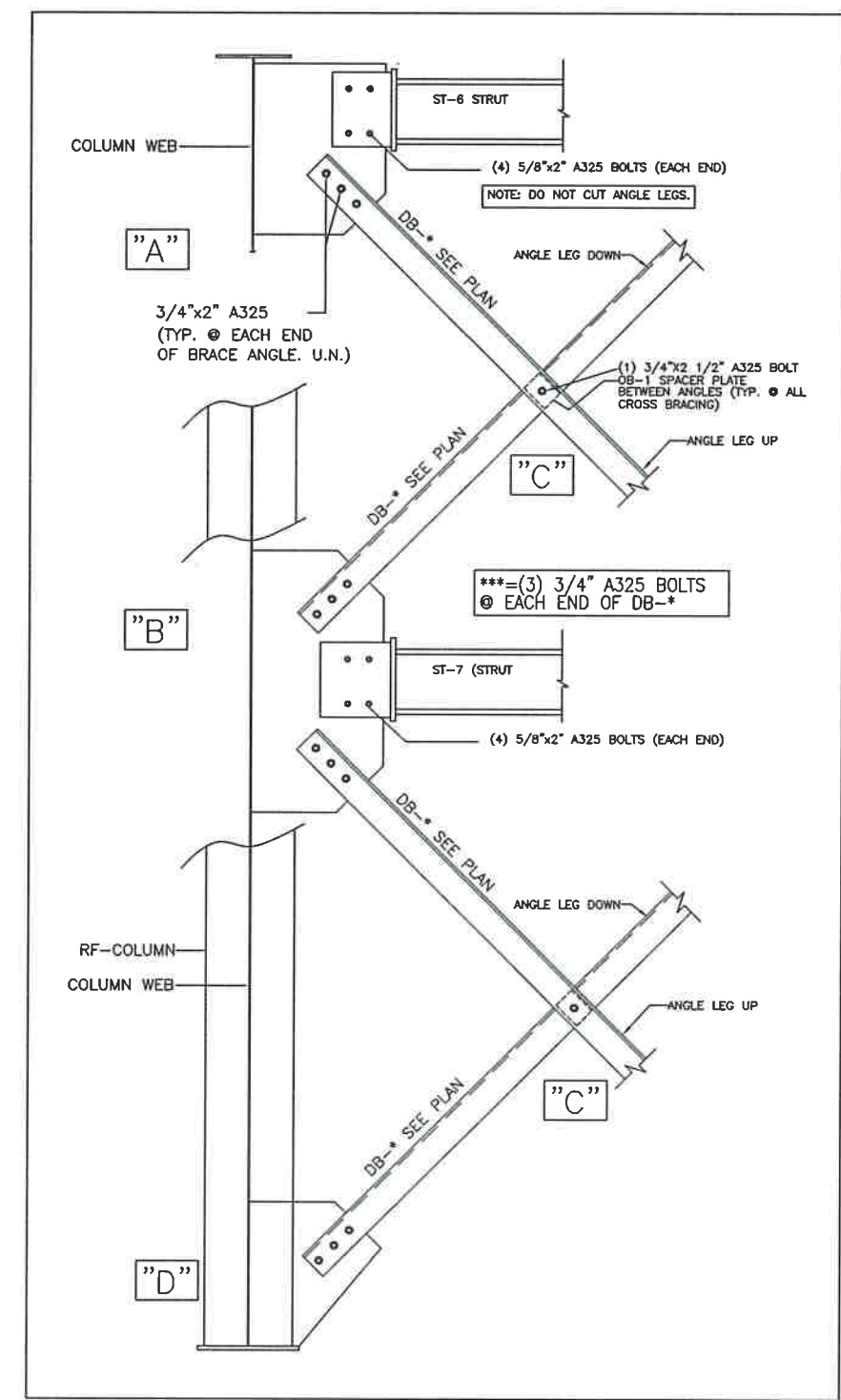
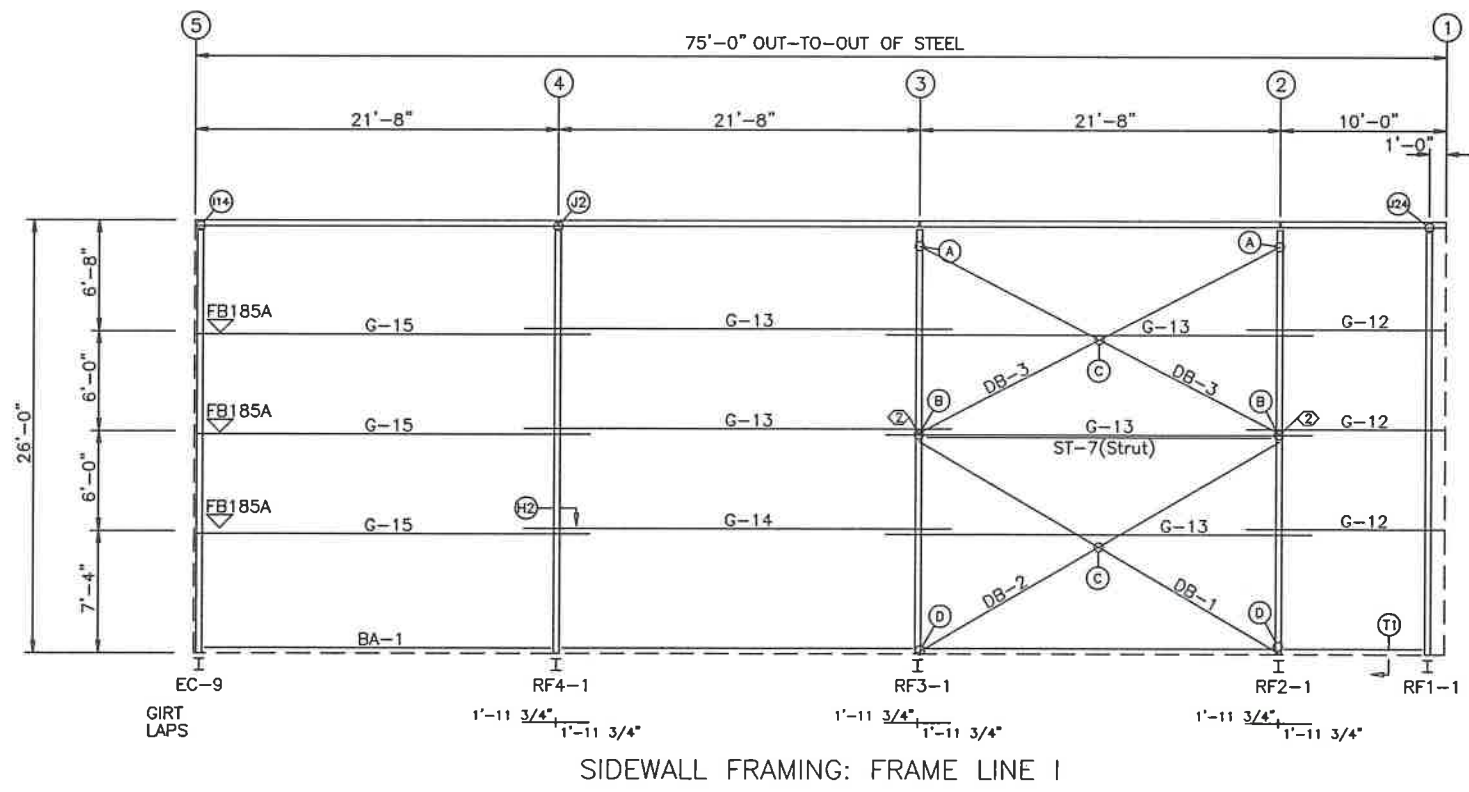
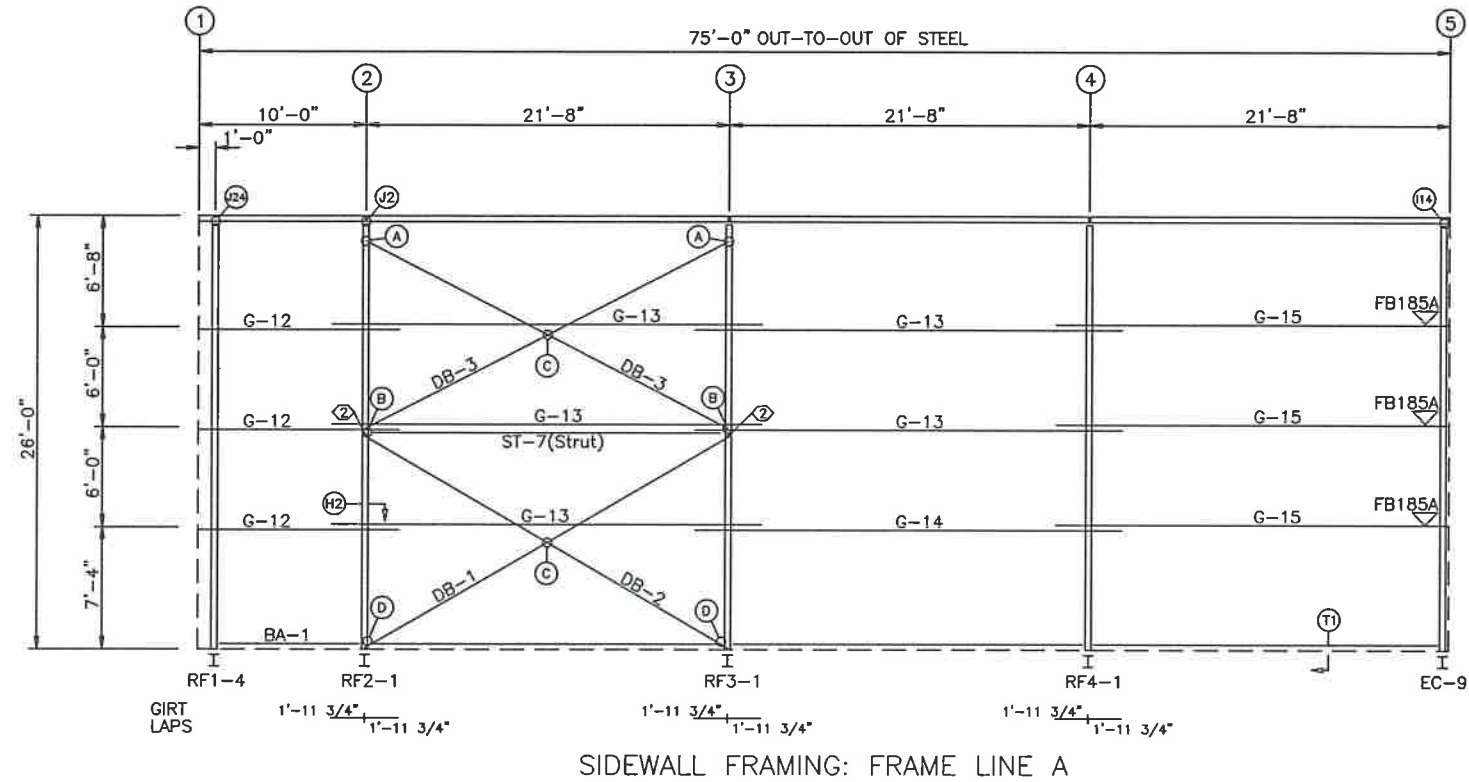


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: RIGID FRAME CROSS SECTION			
DRAWING NO: PAGE 2.4	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



SPECIAL BOLTS					
Ø ID	QUAN	TYPE	DIA	LENGTH	WASH
2	4	A325	5/8"	2"	0

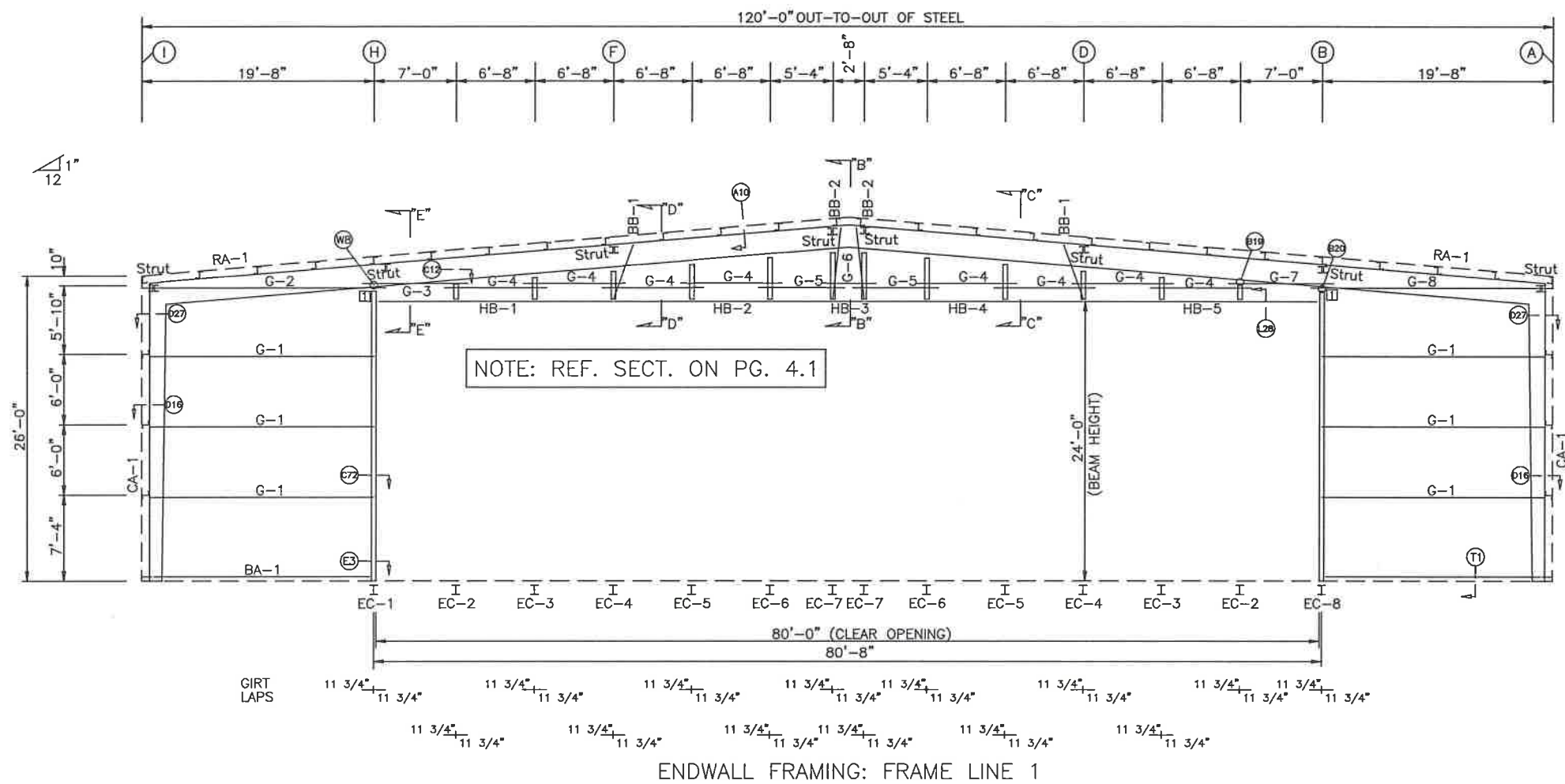
MEMBER TABLE FRAME LINE A & I		
MARK	PART	LENGTH
ST-7	8X7DC12	21'-4 1/4"
G-12	8x25Z16	11'-11 1/2"
G-13	8x25Z16	25'-7 1/2"
G-14	8x25Z14	25'-7 1/2"
G-15	8x25Z14	23'-7 1/2"
DB-1	L3X3X188	23'-9 5/16"
DB-2	L3X3X188	23'-9 1/4"
DB-3	L3X3X188	22'-6 13/16"



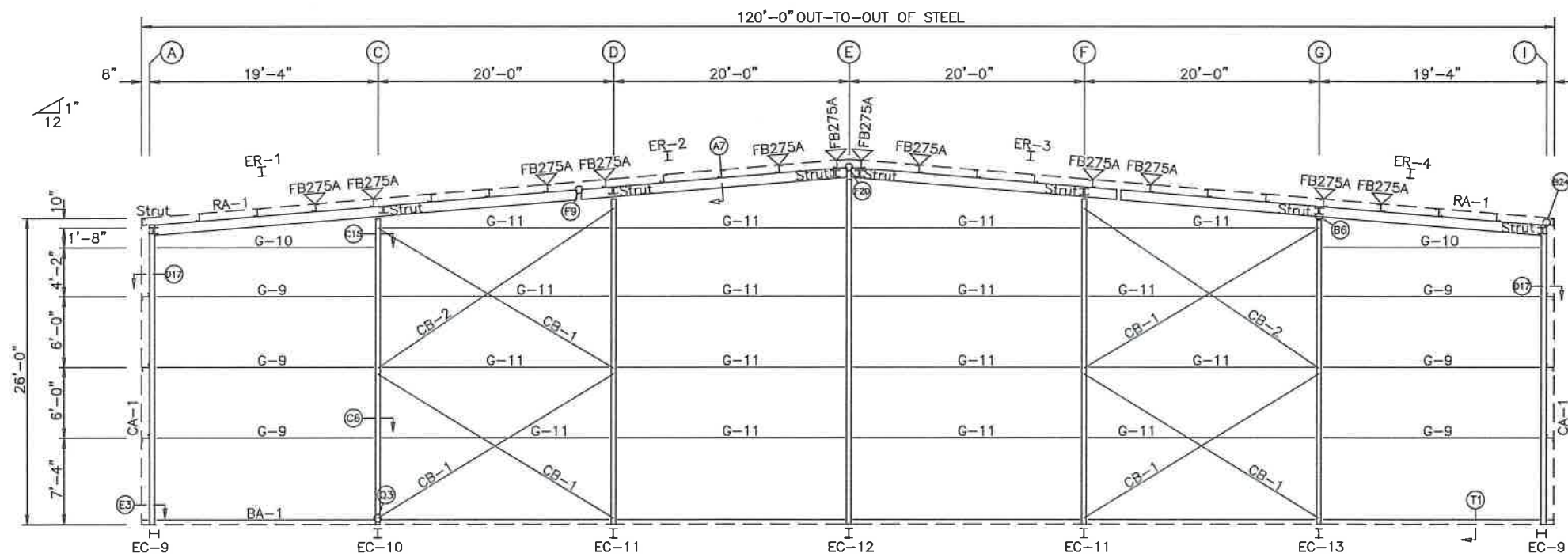
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235 Sanders Rd.  
Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL FRAMING LAYOUT			
DRAWING NO: PAGE 3	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



ENDWALL FRAMING: FRAME LINE 1



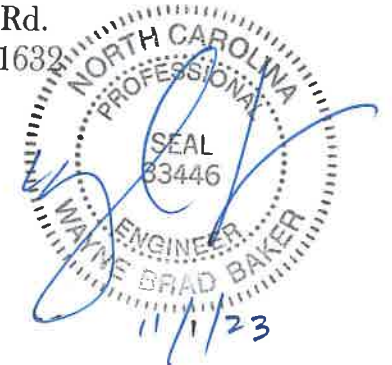
ENDWALL FRAMING: FRAME LINE 5

BOLT TABLE				
FRAME LINE 1 & 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
Cor_Column/Raf	4	A325	5/8"	2"
ER-1/ER-2	8	A325	5/8"	2"
ER-2/ER-3	8	A325	5/8"	2"
ER-3/ER-4	8	A325	5/8"	2"
EC-1/FRAME	4	A325	5/8"	2"
EC-2/FRAME	2	A325	5/8"	2"
EC-3/FRAME	2	A325	5/8"	2"
EC-4/FRAME	2	A325	5/8"	2"
EC-5/FRAME	2	A325	5/8"	2"
EC-6/FRAME	2	A325	5/8"	2"
EC-7/FRAME	2	A325	5/8"	2"
EC-8/FRAME	4	A325	5/8"	2"
EC-10/ER-1	2	A325	5/8"	2"
EC-11/ER-2	2	A325	5/8"	2"
EC-12/ER-3	2	A325	5/8"	2"
EC-11/ER-3	2	A325	5/8"	2"
EC-13/ER-4	2	A325	5/8"	2"

MEMBER TABLE		
FRAME LINE 1 & 5		
MARK	PART	LENGTH
HB-1	C8x11.5	19'-11 1/2"
HB-2	C8x11.5	18'-7 1/2"
HB-3	C8x11.5	2'-7 1/2"
HB-4	C8x11.5	18'-7 1/2"
HB-5	C8x11.5	19'-11 1/2"
BB-1	T5x188	9'-2 1/8"
BB-2	T5x188	9'-11 1/4"
EC-1	W8X24	25'-1 1/16"
EC-2	W8X10	1'-1 11/16"
EC-3	W8X10	1'-8 3/4"
EC-4	W8X10	2'-3 3/8"
EC-5	W8X10	2'-10 1/16"
EC-6	W8X10	3'-4 3/4"
EC-7	W8X10	3'-10 1/16"
EC-8	W8X24	25'-1 1/16"
EC-9	W12X14	25'-5 5/8"
EC-10	W8X18	26'-0 1/16"
EC-11	W8X18	27'-8 1/16"
EC-12	W8X18	29'-0 15/16"
EC-13	W8X18	26'-0 1/16"
ER-1	W10X12	35'-7 3/16"
ER-2	W10X12	23'-0 3/16"
ER-3	W10X12	23'-0 3/16"
ER-4	W10X12	35'-7 3/16"
G-1	8x25Z12	18'-11 1/2"
G-2	8x25Z16	19'-7 3/4"
G-3	8x25Z16	7'-11 3/4"
G-4	8x25Z16	8'-7 1/2"
G-5	8x25Z16	7'-3 1/2"
G-6	8x25Z16	4'-7 1/2"
G-7	8x25Z16	7'-11 3/4"
G-8	8x25Z16	19'-7 3/4"
G-9	8x25Z12	17'-11 5/8"
G-10	8x25Z14	17'-11 5/8"
G-11	8x25Z12	19'-3 1/2"
CB-1	0.50_ROD	24'-0"
CB-2	0.50_ROD	24'-11"

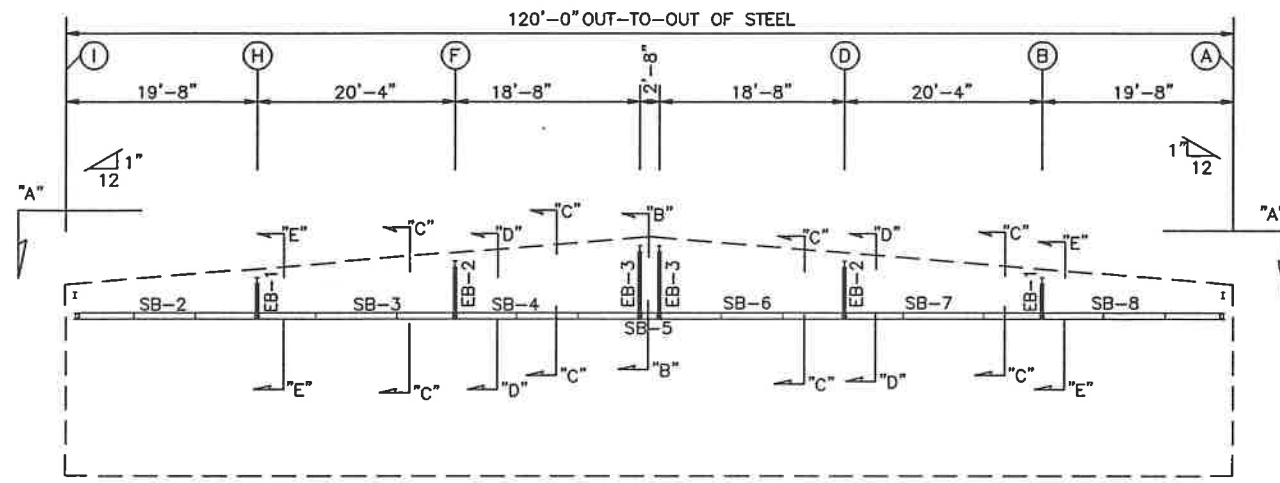
CONNECTION PLATES	
FRAME LINE 1 & 5	
ID	MARK/PART
1	SGC1

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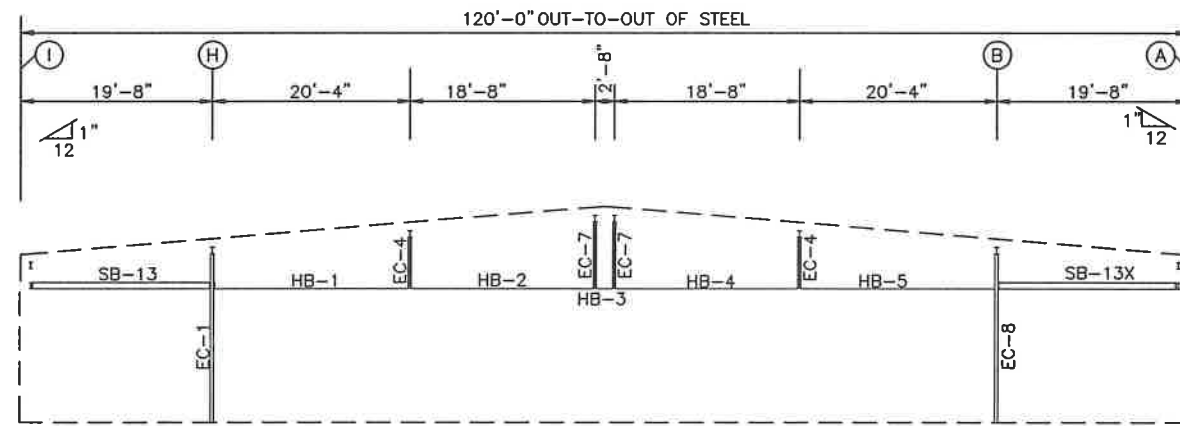
NOTE: THE FRAMING AS DEPICTED ABOVE IS NOT DESIGNED TO ACCOMMODATE ANY FUTURE EXPANSION.

ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL FRAMING LAYOUT			
DRAWING NO: PAGE 4	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

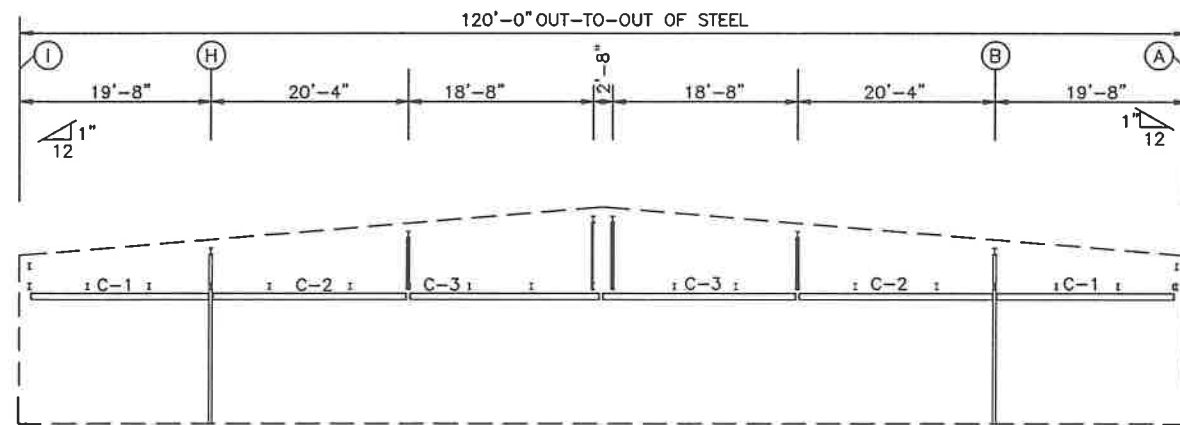


HANGAR DOOR FRAMING: FRAME LINE 2

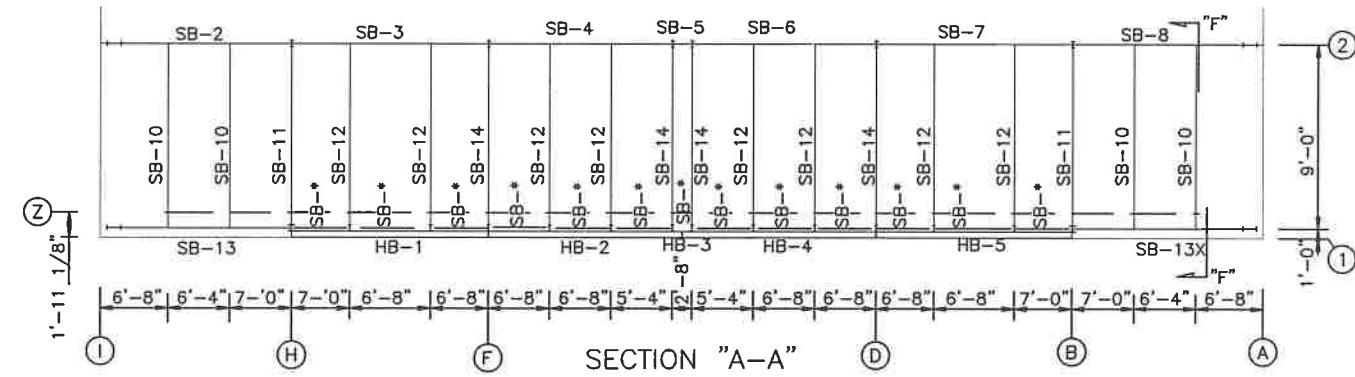
MEMBER TABLE		
FRAME LINE 1.1		
MARK	PART	LENGTH
SB-2	W8X10	18'-7 13/16"
SB-3	W8X10	20'-2 13/16"
SB-4	W8X10	18'-10 13/16"
SB-5	W8X10	1'-10 13/16"
SB-6	W8X10	18'-10 13/16"
SB-7	W8X10	20'-2 13/16"
SB-8	W8X10	18'-7 13/16"
SB-9	W8X10	18'-11"
SB-10	W8X10	10'-0"
SB-11	W8X10	10'-0"
SB-12	W8X10	10'-0"
SB-13	W8X10	17'-10 1/8"
SB-13X	W8X10	17'-10 1/8"
SB-14	W8X10	10'-0"
SB-*	W8X10	TBD
EB-1	W8X10	TBD
EB-2	W8X10	TBD
EB-3	W8X10	TBD
C-1	6x25C16	18'-7 1/2"
C-2	6x25C16	20'-3 1/2"
C-3	6x25C16	19'-11 1/2"



SOFFIT FRAMING: FRAME LINE 1

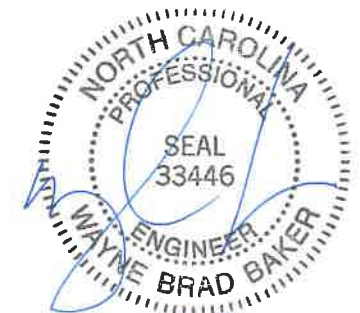


SOFFIT FRAMING: FRAME LINE Z



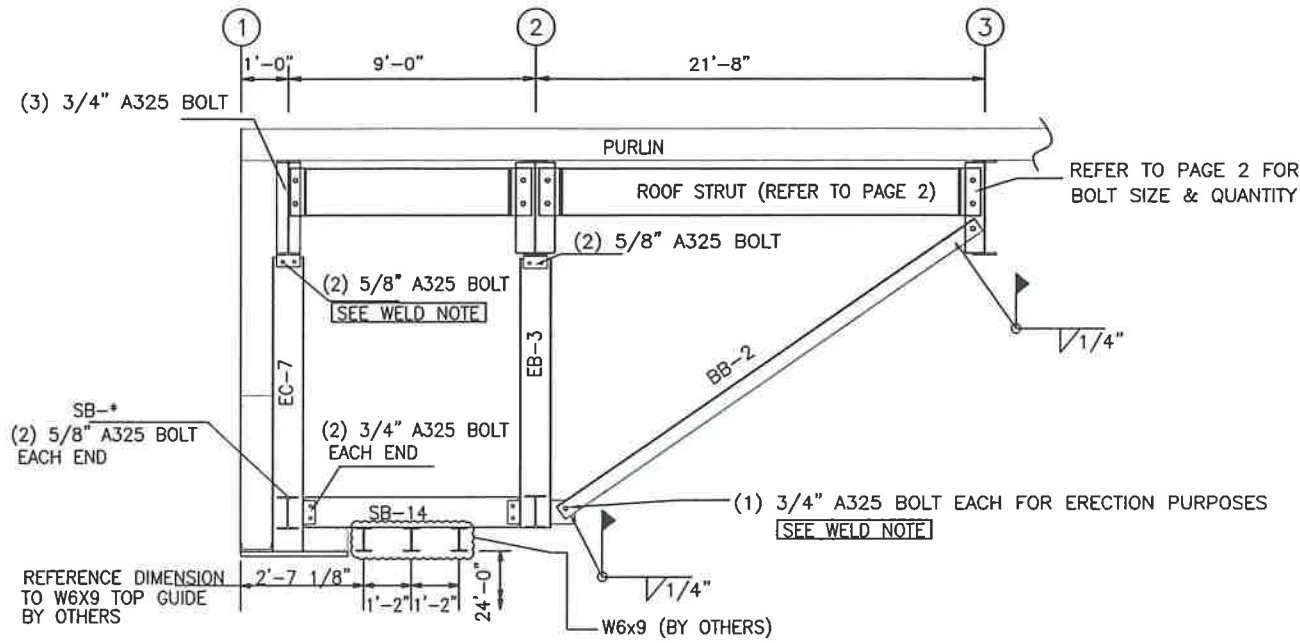
NOTE: REF SECT. DWGS @ PAGE 4.2

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235 Sanders Rd.  
Hahira, GA 31632

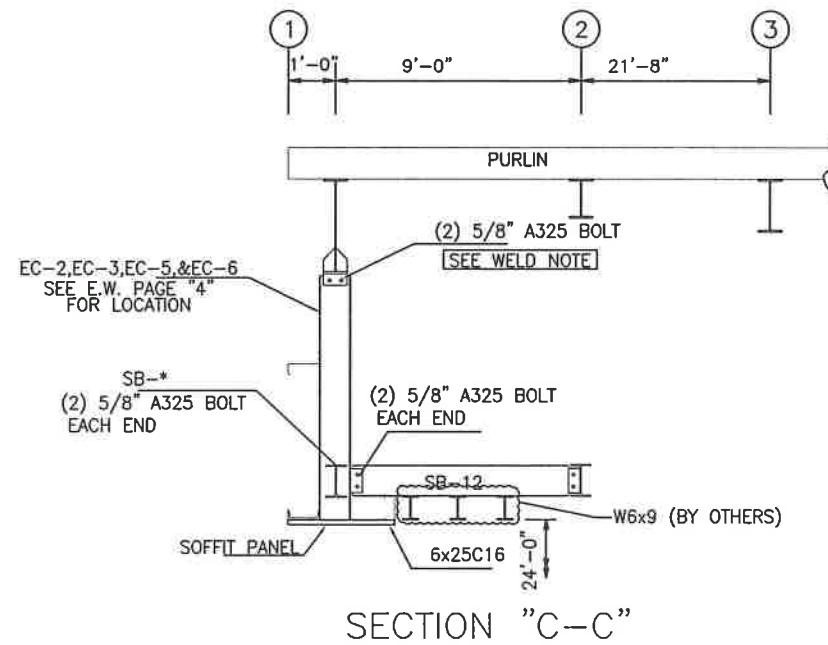


11/1/23

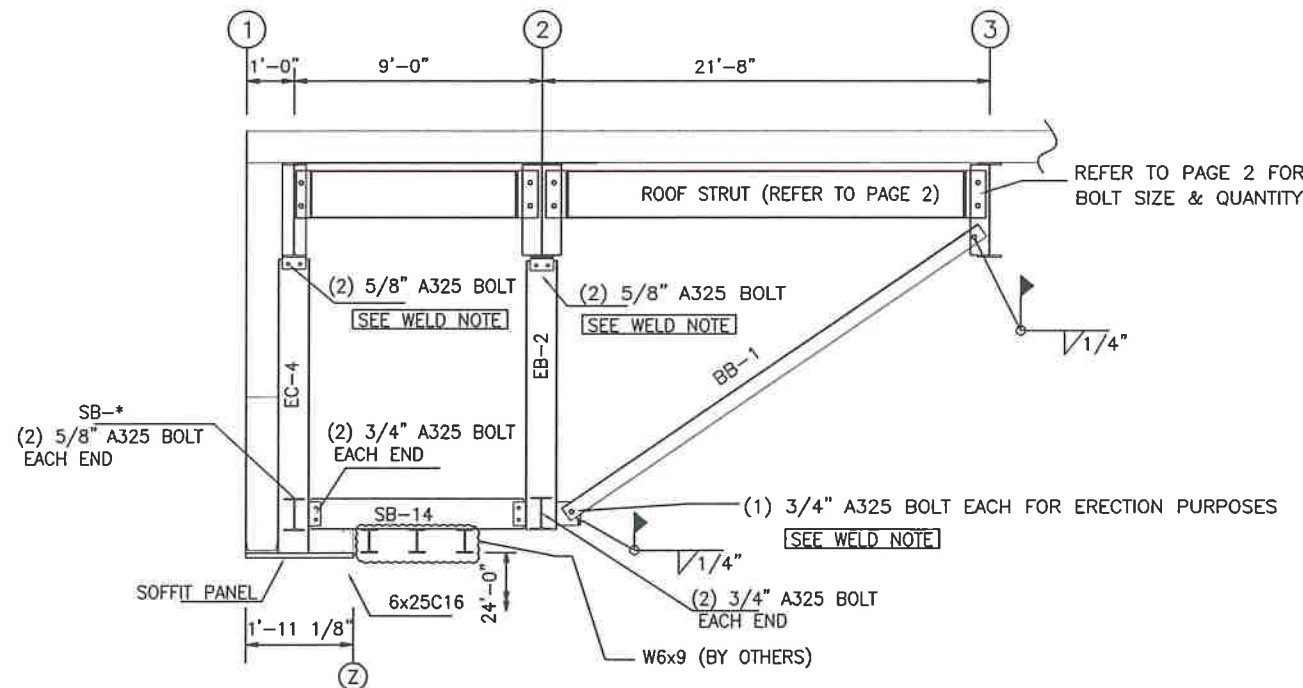
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: HANGAR DOOR FRAMING			
DRAWING NO: PAGE 4.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



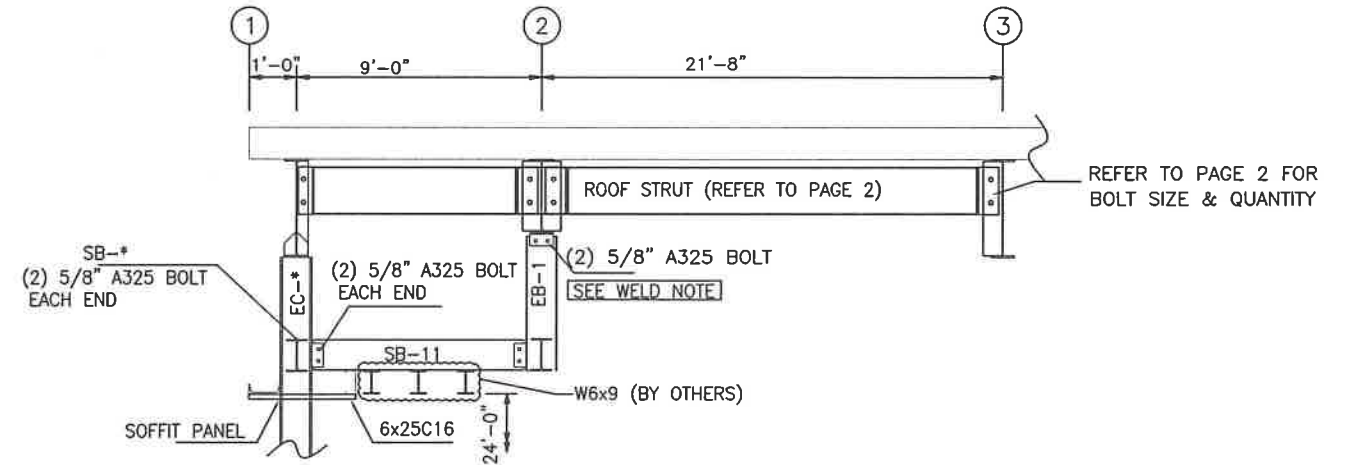
SECTION "B-B" @ PEAK



SECTION "C-C"



SECTION "D-D" @ LINES "D" & "F"



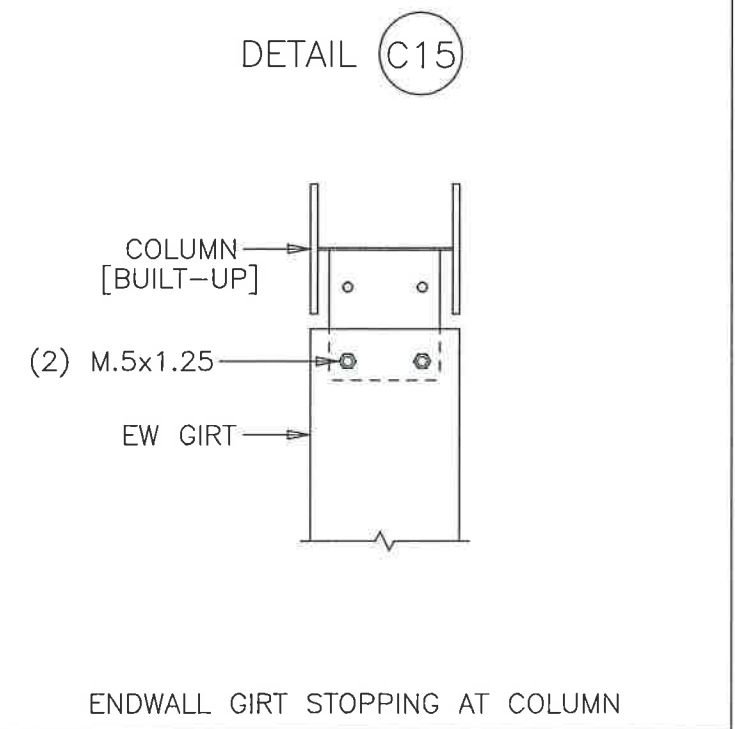
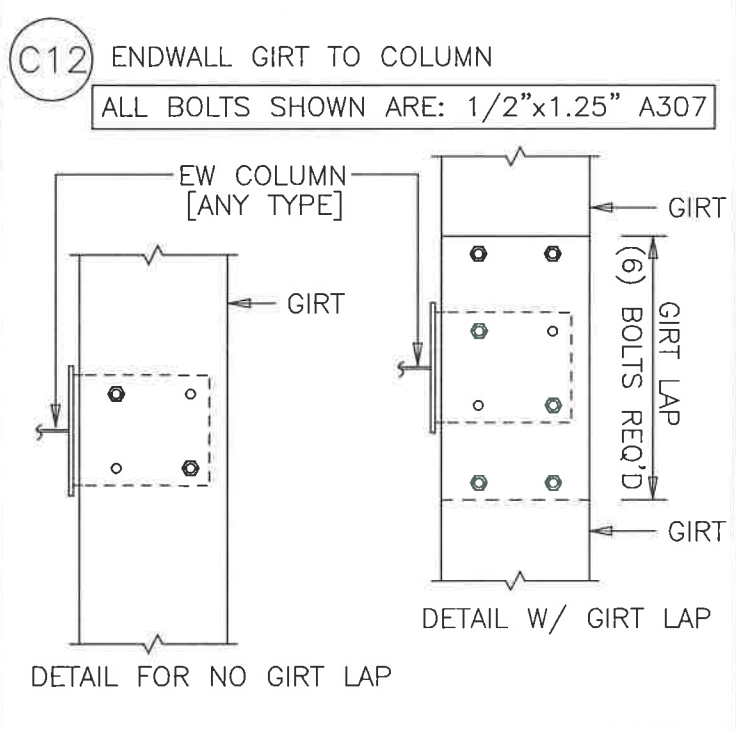
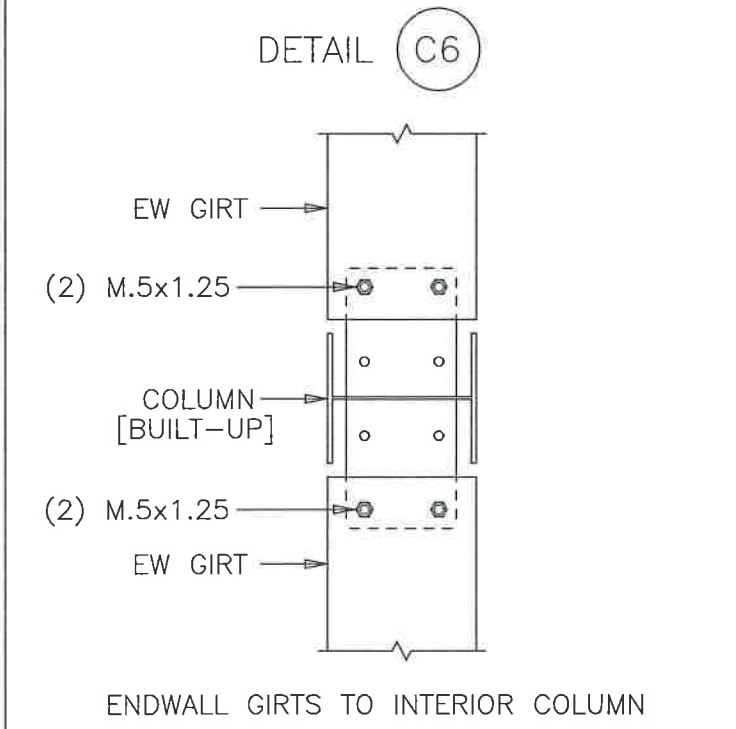
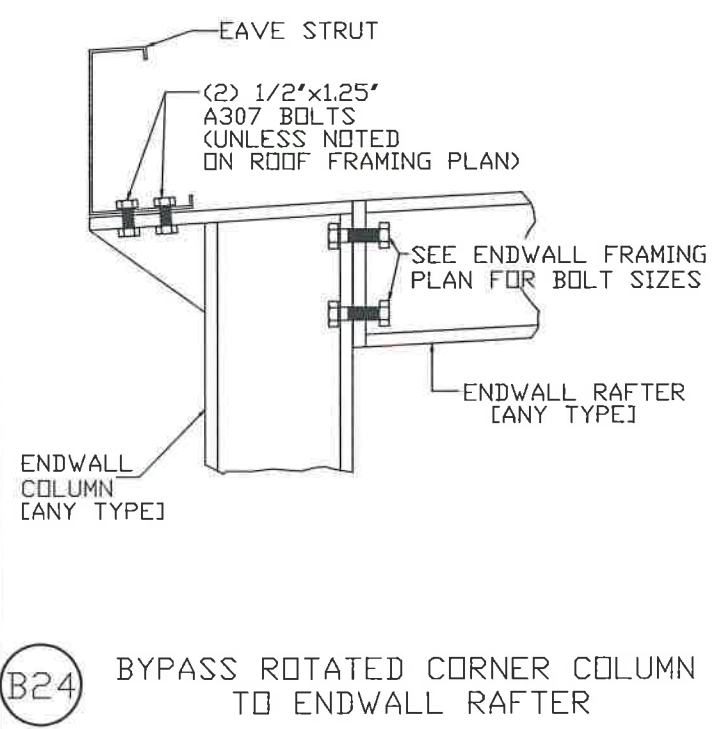
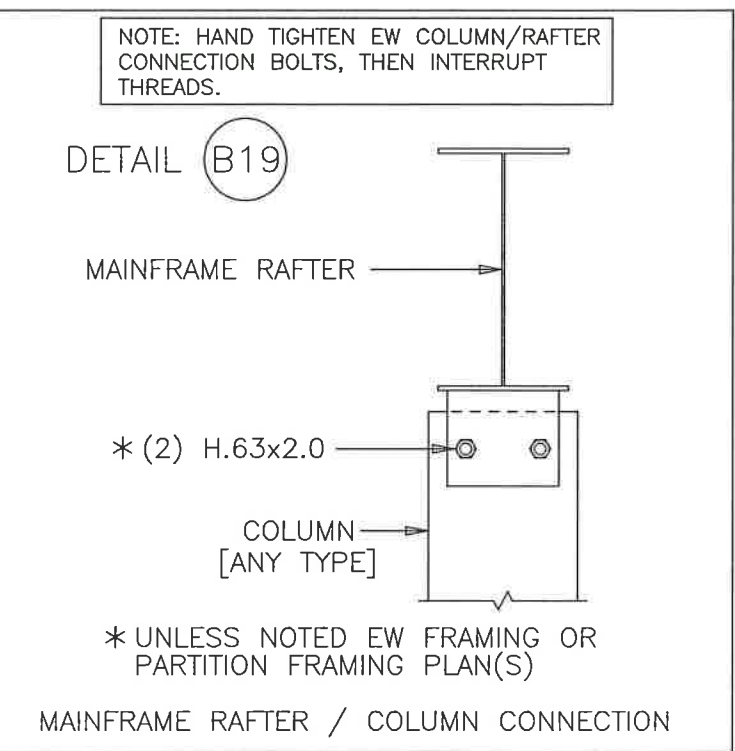
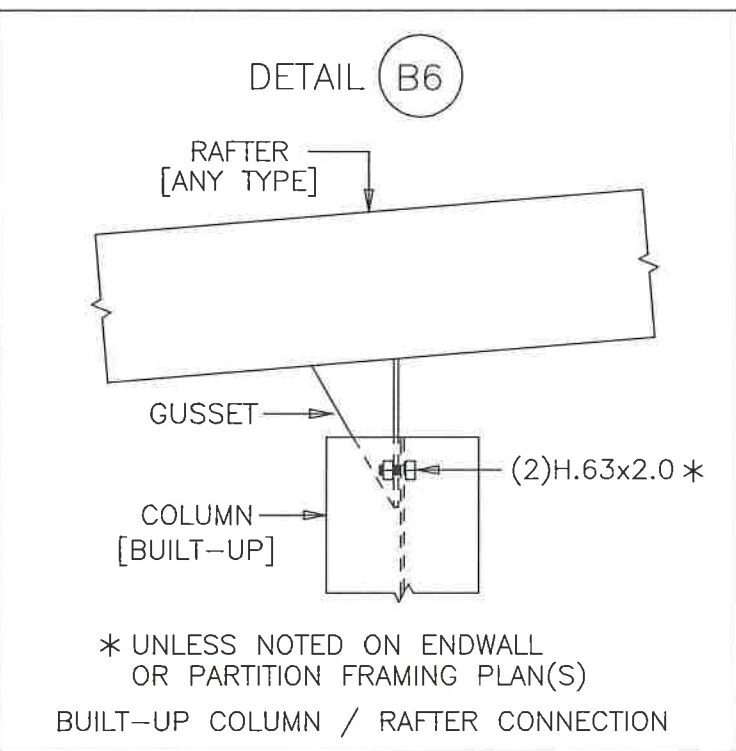
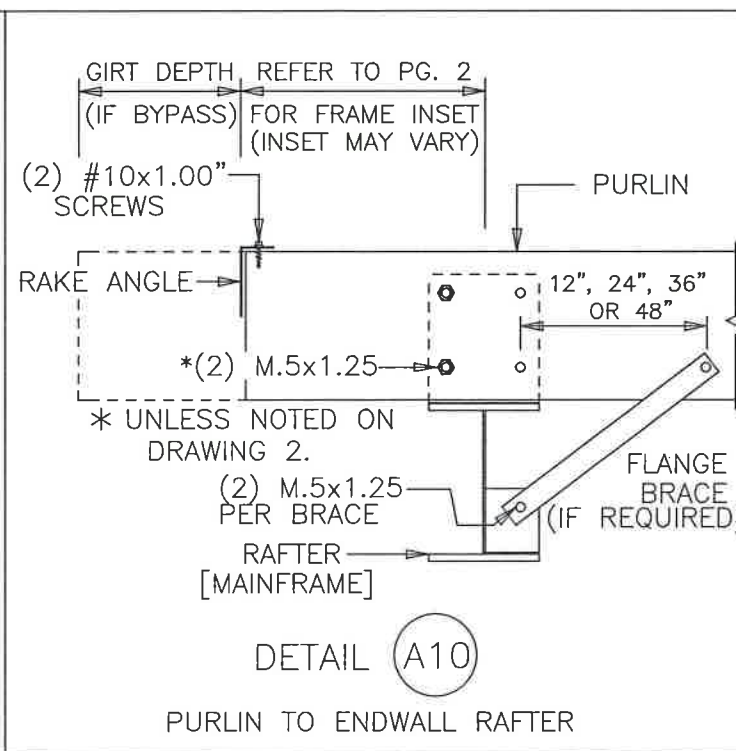
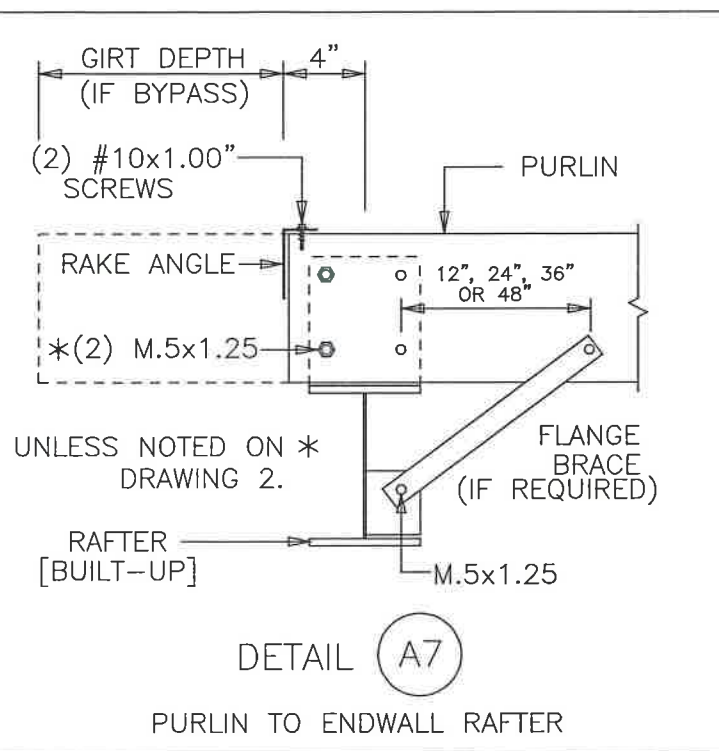
SECTION "E-E" @ LINES "B" & "H"

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WELD NOTE:  
FIELD WELD ONCE ALL DEAD LOAD IS APPLIED

ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: HANGER DOOR DETAILS			
DRAWING NO: PAGE 4.2	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

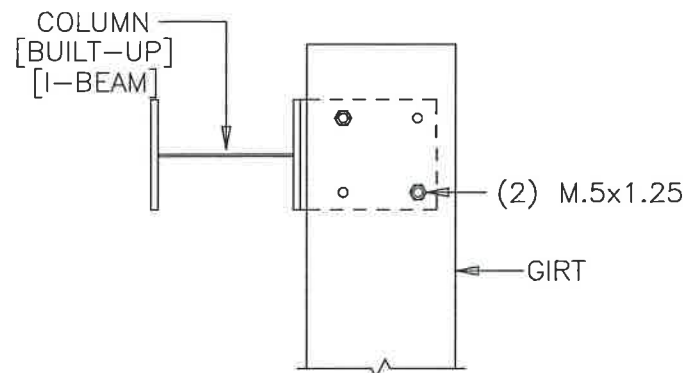


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ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

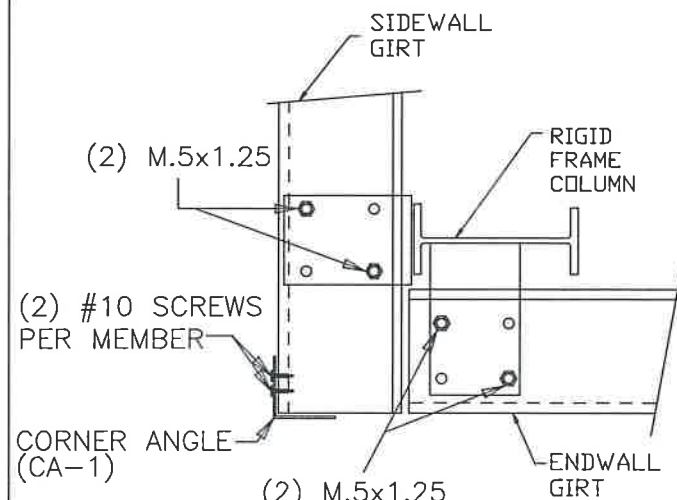
DETAIL (C72)



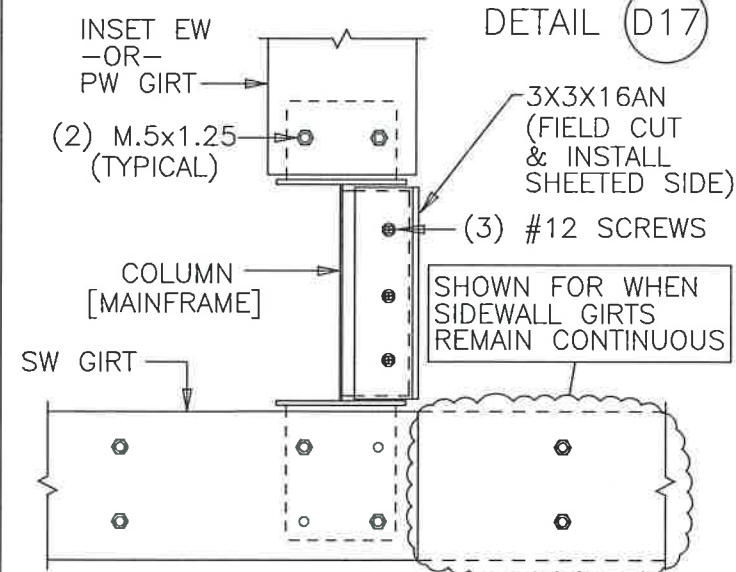
\* (4) M.5x1.25 - IF (2) GIRTS / NO LAP.

BYPASS ENDWALL GIRT TERMINATION AT COLUMN

D16 CORNER COLUMN TO WALL GIRT

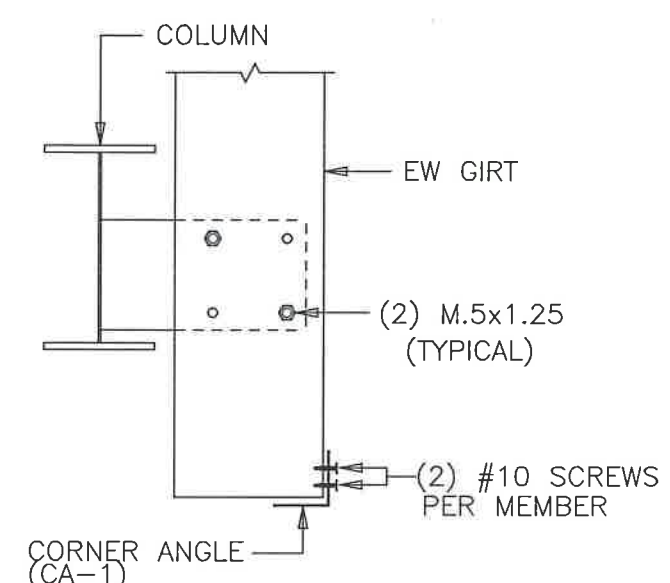


DETAIL (D17)

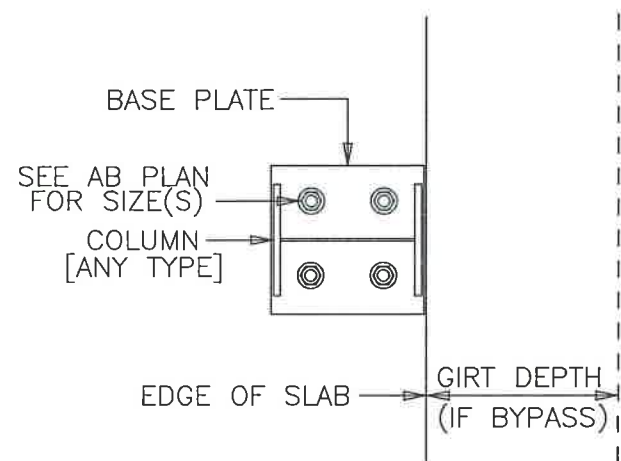


GIRT CONNECTIONS AT PARTITION WALL OR INSET ENDWALL

D27 GIRTS TO CORNER COLUMN

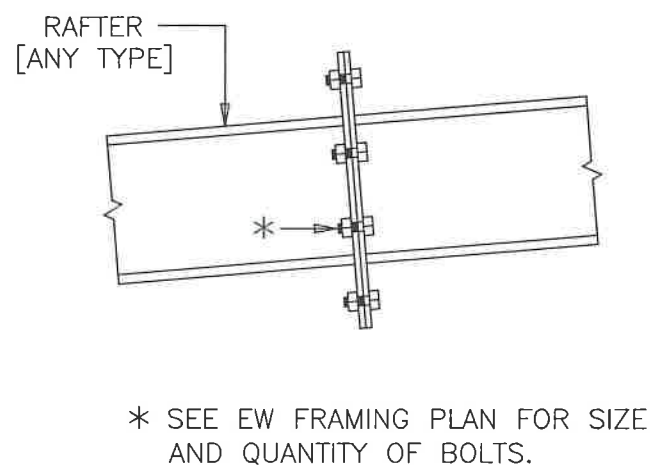


DETAIL (E3)



ENDWALL COLUMN BASE DETAIL

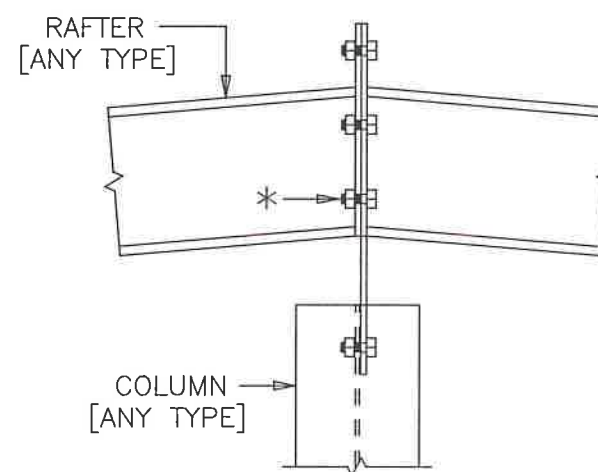
DETAIL (F9)



\* SEE EW FRAMING PLAN FOR SIZE AND QUANTITY OF BOLTS.

RAFTER DETAIL AT SPLICE

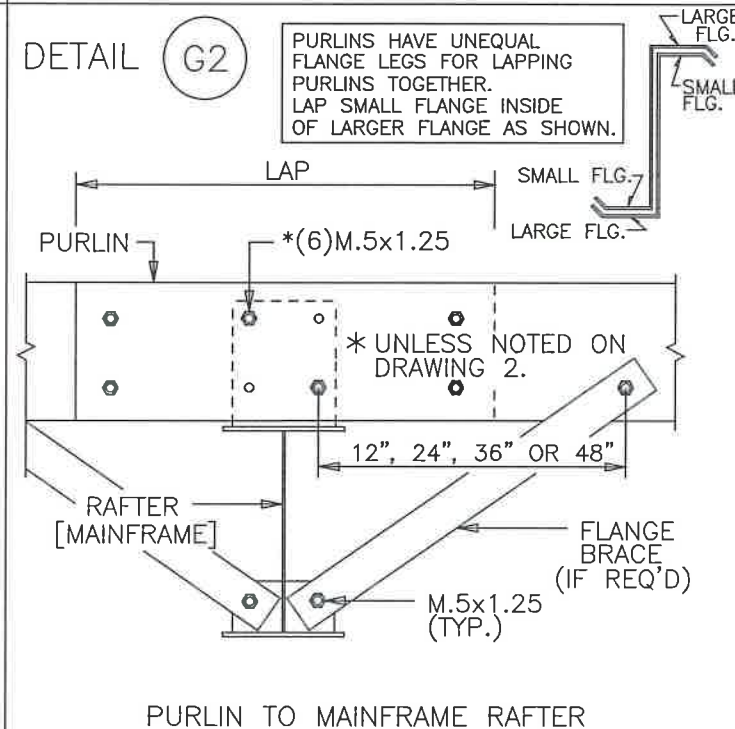
DETAIL (F20)



\* SEE EW FRAMING PLAN FOR SIZE AND QUANTITY OF BOLTS.

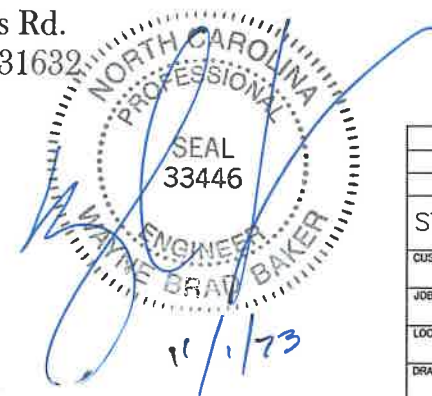
RAFTER DETAIL AT RIDGE W/ CENTER COLUMN

DETAIL (G2)

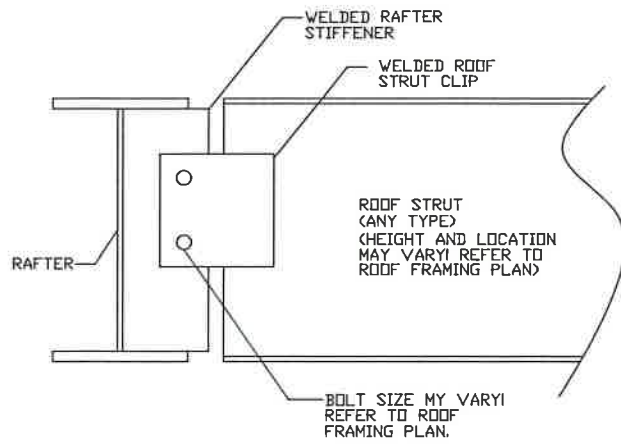


PURLIN TO MAINFRAME RAFTER

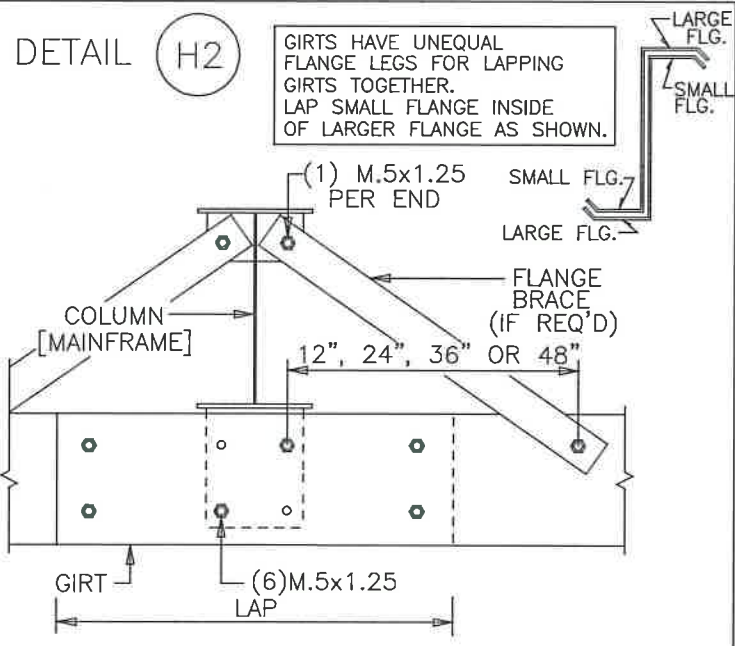
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Hahira, GA 31632



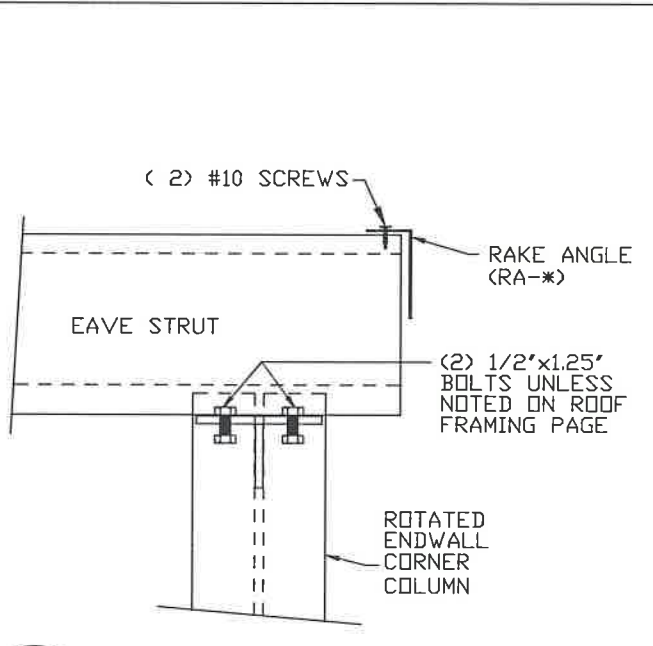
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



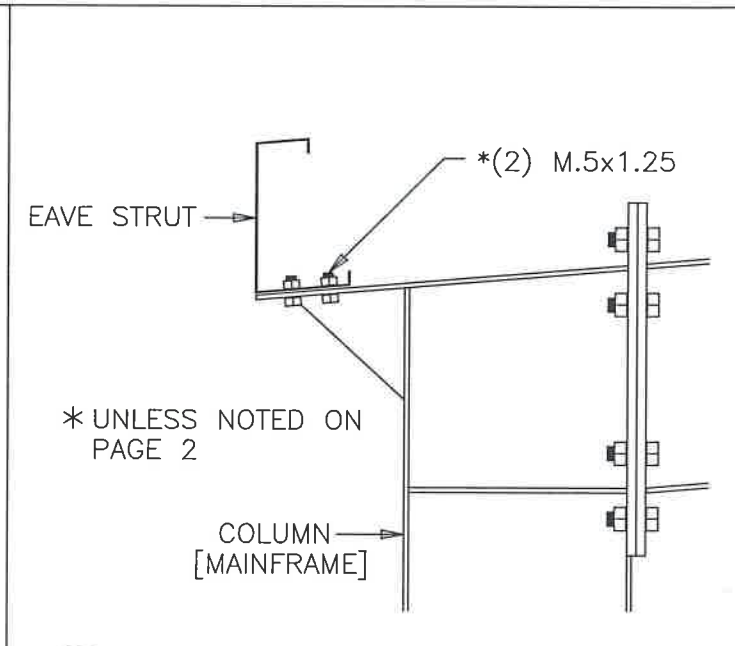
G19 FLUSH ROOF STRUT TO RIGID FRAME RAFTER



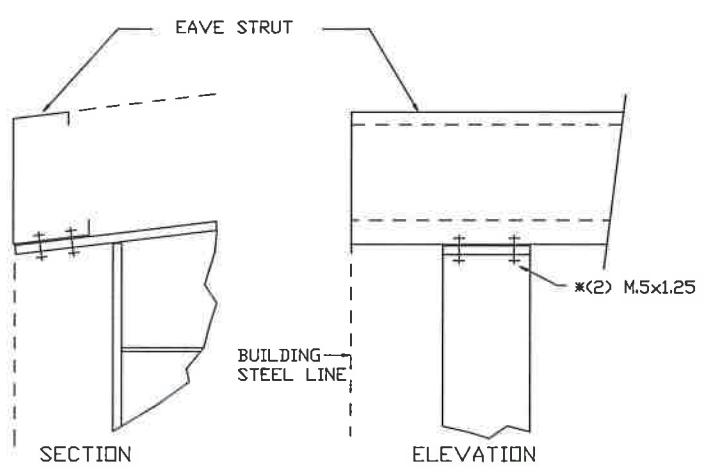
H2 GIRTS TO MAINFRAME COLUMN



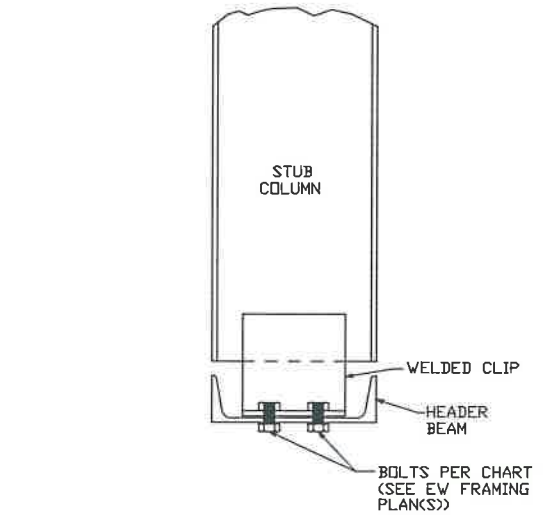
I14 EAVE STRUT TO ENDWALL CORNER COLUMN



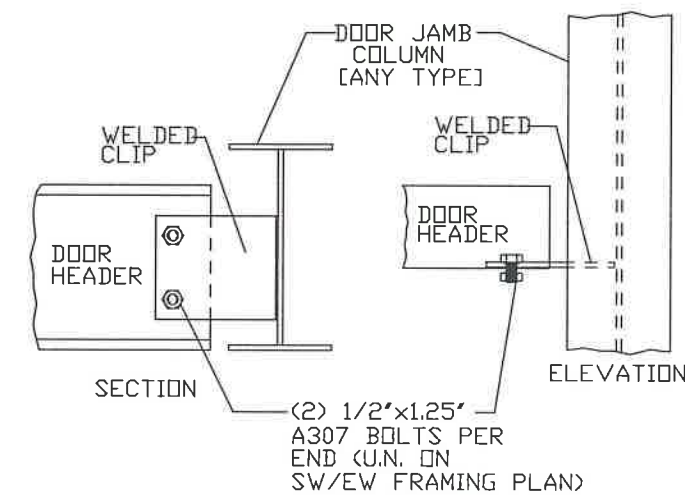
J2 EAVE STRUT CONNECTION AT MAINFRAME



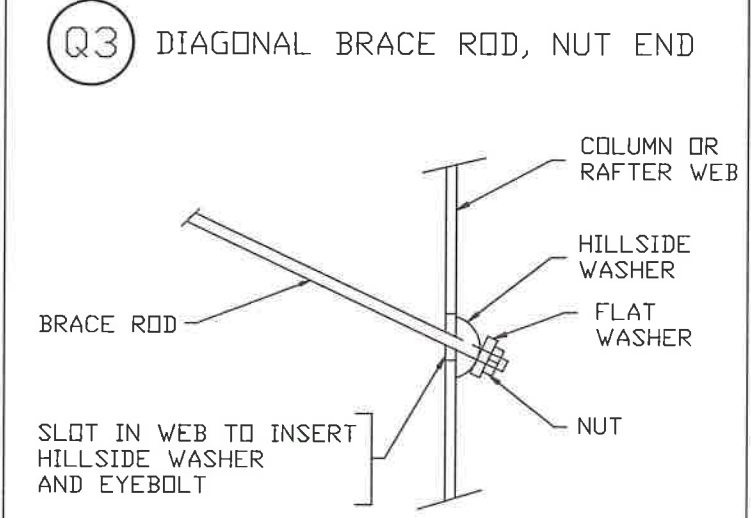
J24 EAVE STRUT TO RIGID FRAME



L28 STUB COLUMN TO HEADER BEAM



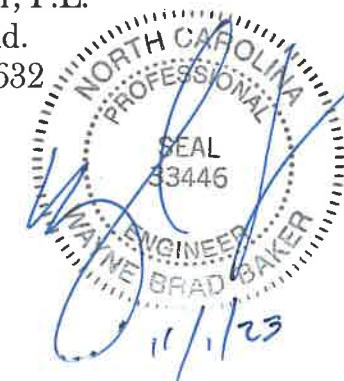
M13 DOOR HEADER TO DOOR JAMB



Q3 DIAGONAL BRACE ROD, NUT END

NOTE: WHEN FLUSH GIRTS/PURLINS ARE USED, FIELD SLOT GIRT/PURLIN AS REQ'D FOR CABLE/ROD PASSAGE THROUGH GIRT/PURLIN.

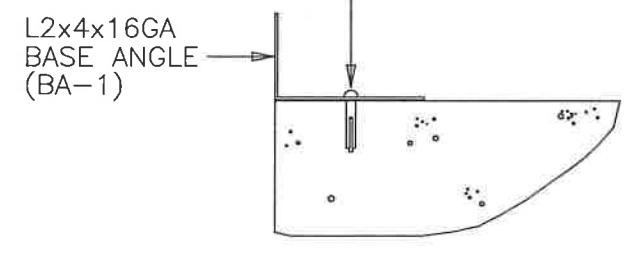
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235 Sanders Rd.  
Hahira, GA 31632



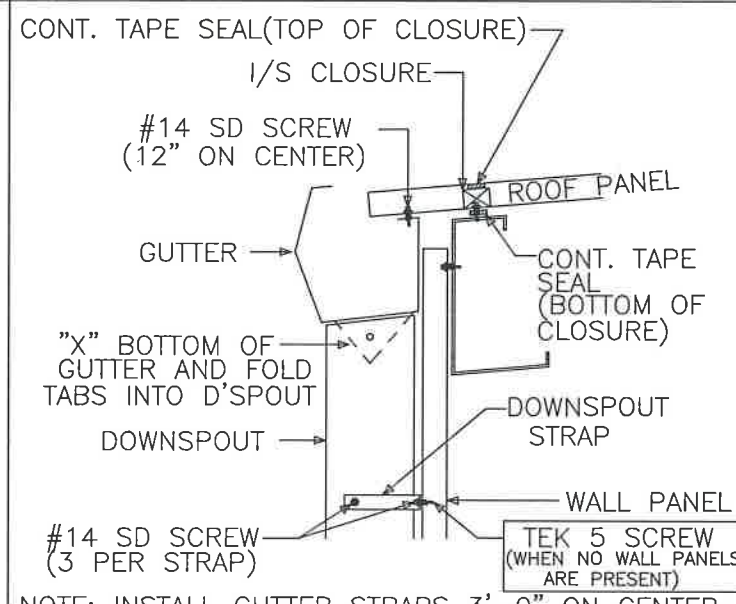
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.2	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

DETAIL T1

1/4" x 1 1/4" ZINC HAMMER DRIVES  
ZAMAK ALLOY (ASTM B633, SC1, TYPE III)  
(24" ON CENTER)

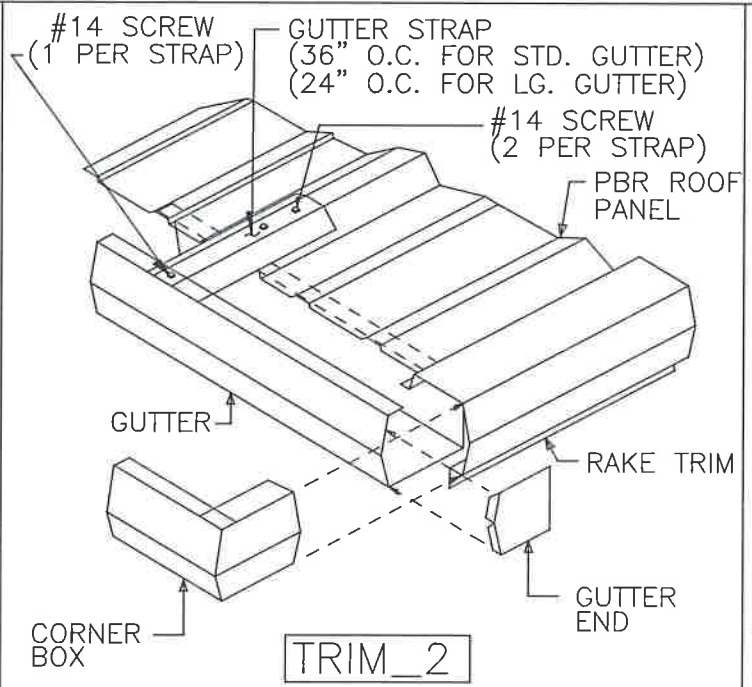


BASE ANGLE DETAIL

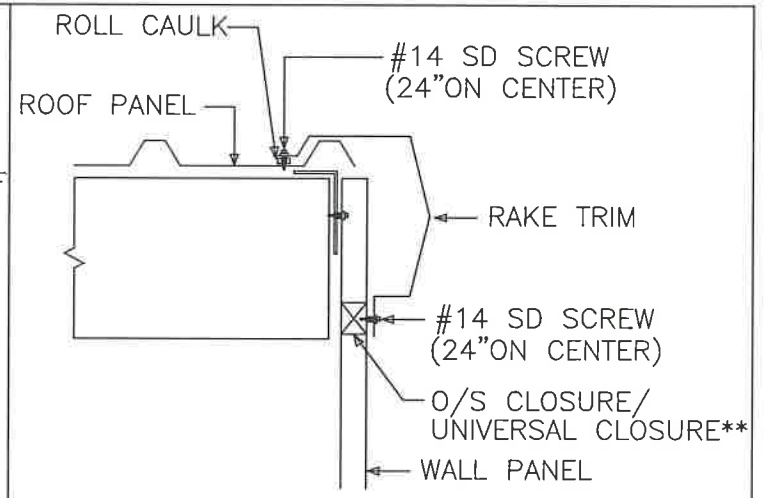


NOTE: INSTALL GUTTER STRAPS 3'-0" ON CENTER.  
NOTE: INSTALL D'SPOUT STRAPS 5'-0" ON CENTER.

TRIM\_1  
GUTTER DETAIL



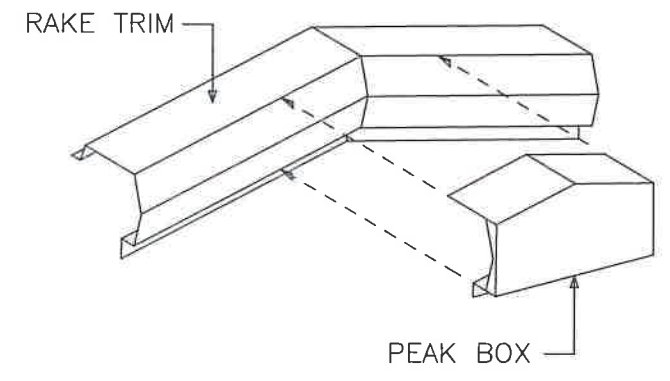
TRIM\_2  
GUTTER END DETAIL



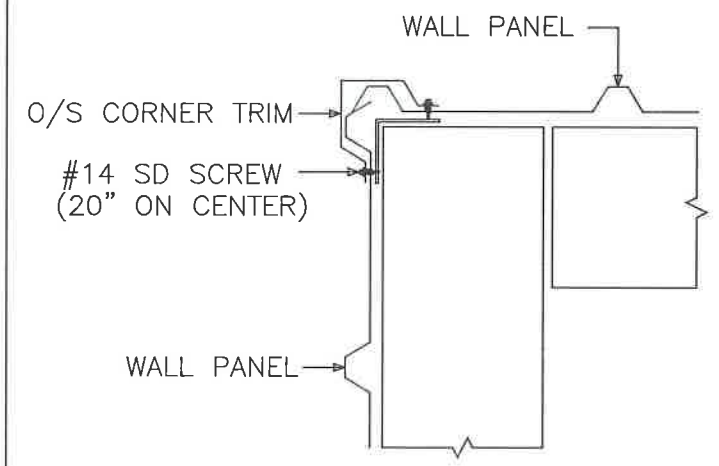
\*\* - O/S CLOSURE FOR ROOF PITCHES UP TO 2:12"  
UNIVERSAL CLOSURE FOR ROOF PITCHES ABOVE 2:12"

NOTE: FIELD CUT UNIVERSAL CLOSURES TO MATCH WALL  
PANEL PROFILE (ON PITCH).

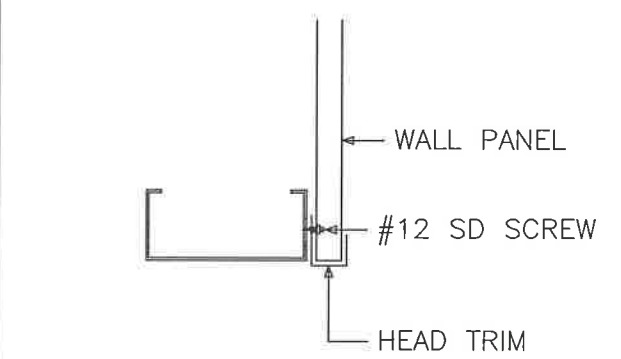
TRIM\_3  
RAKE TRIM DETAIL



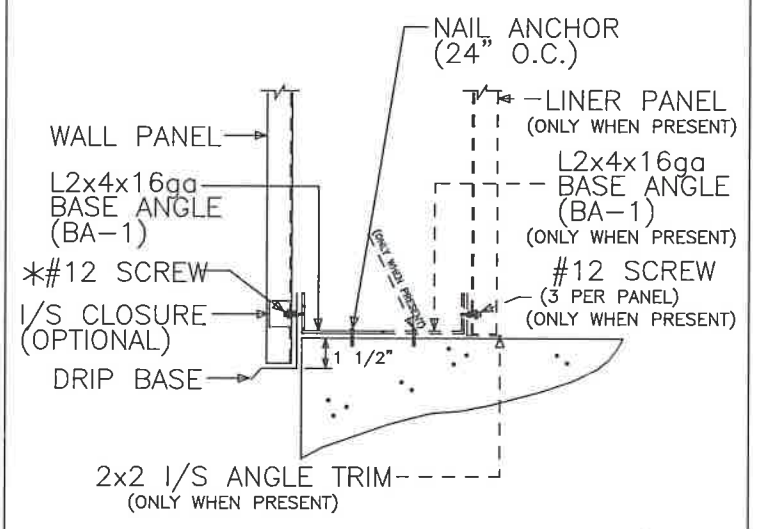
TRIM\_4  
PEAK BOX DETAIL



TRIM\_5  
O/S CORNER DETAIL



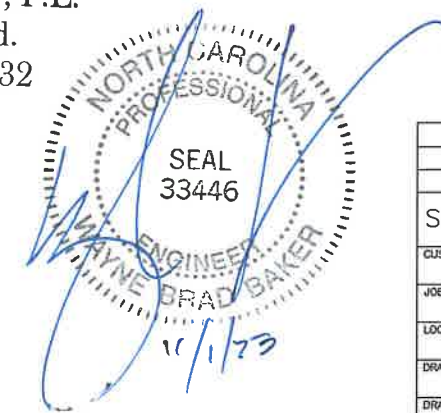
TRIM\_6  
HEAD TRIM DETAIL AT HEADER



\* = 6 PER PANEL FOR STANDARD PBR  
3 PER PANEL FOR REV. ROLLED PBR

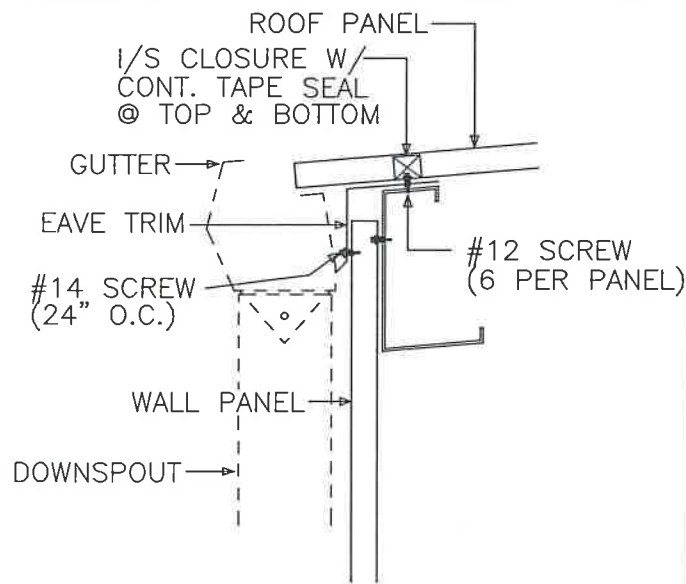
TRIM\_16  
BASE TRIM DETAIL

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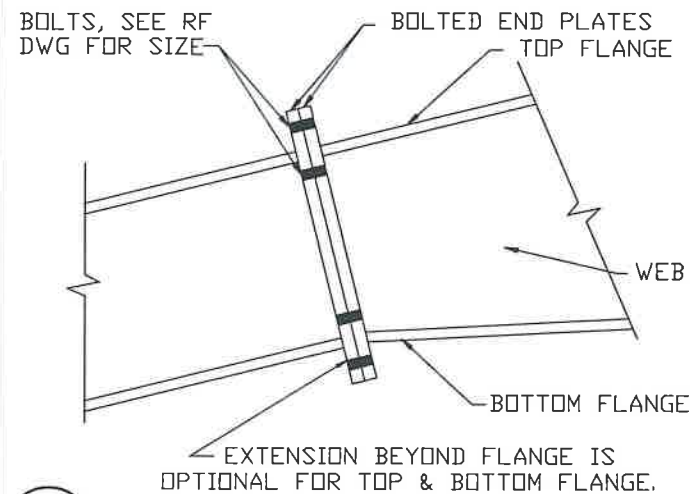


ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.3	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

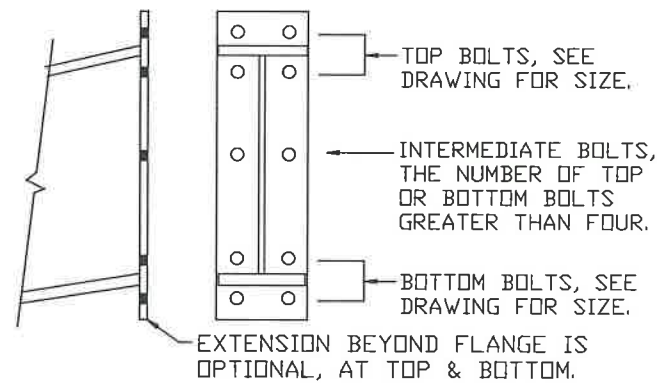




**TRIM\_120**  
EAVE/GUTTER TRIM DETAIL

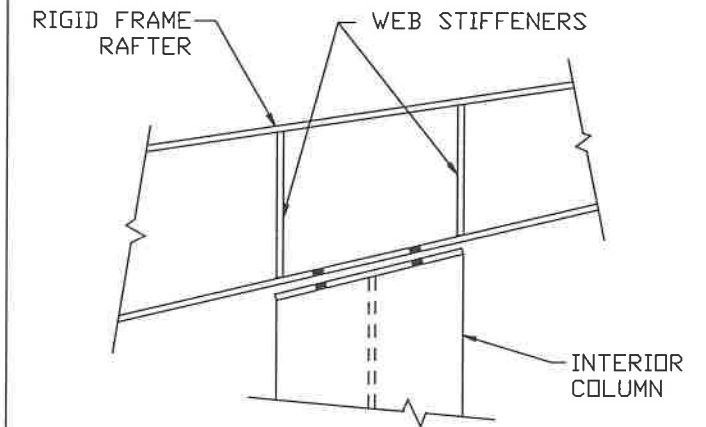


**U1** BOLTED END PLATE RAFTER SPLICE

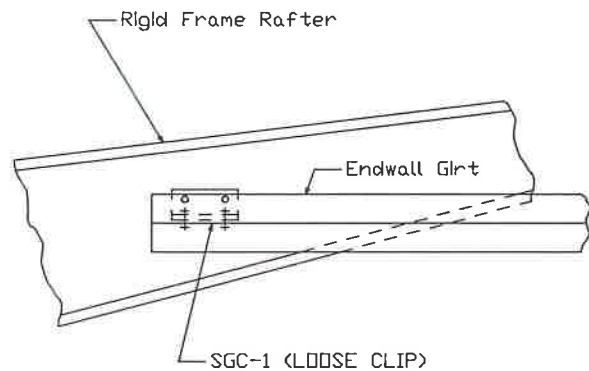


BOLTED END PLATE CONNECTION

NOTE: REFER TO RIGID FRAME CROSS SECTION(S) FOR BOLT SIZE/QNTY!



**V2** INTERIOR COLUMN TO RAFTER



ATTACH WITH:  
CLIP TO RAFTER (2) 1/2"x1.25" A307 BOLT/NUT  
CLIP TO GIRT (2) 1/2"x1.25" A307 BOLT/NUT

**W8** SECTION OF ENDWALL GIRT TO RAFTER

**STRUCTURAL BOLTED CONNECTIONS**

REFER TO COVER PAGE "GENERAL NOTES" PARAGRAPH "C", SECTION "9" FOR INSTRUCTIONS ON TIGHTENING ALL A325 AND A490 CONNECTION BOLTS.

**TRIM NOTES:**

- [1] SEAL TRIM SPLICES WITH TUBE CAULK.
- [2] SECURE GUTTER SPLICES AND END PLUGS WITH RIVETS.
- [3] SECURE ALL OTHER ROOF TRIM SPLICES WITH TRIM SCREWS UNLESS NOTED OTHERWISE.
- [4] TRIM SCREWS ARE LOCATED 24" ON CENTER UNLESS NOTED OTHERWISE.
- [5] STD. TRIM SPLICES ARE 3" TOTAL UNLESS NOTED OTHERWISE.

**MORTISE PREPPED PERSONNEL DOORS**

ALL MORTISE PREPPED PERSONNEL DOORS COME AS RIGHTHAND REVERSED SWING.

(i.e. STANDING ON THE OUTSIDE OF THE BUILDING FACING THE DOOR, THE LOCK WILL BE ON THE LEFTHAND SIDE OF THE DOOR AND THE DOOR WILL SWING OUTWARD FROM THE BUILDING.)

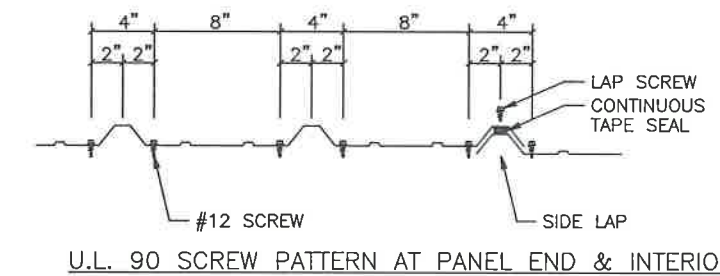
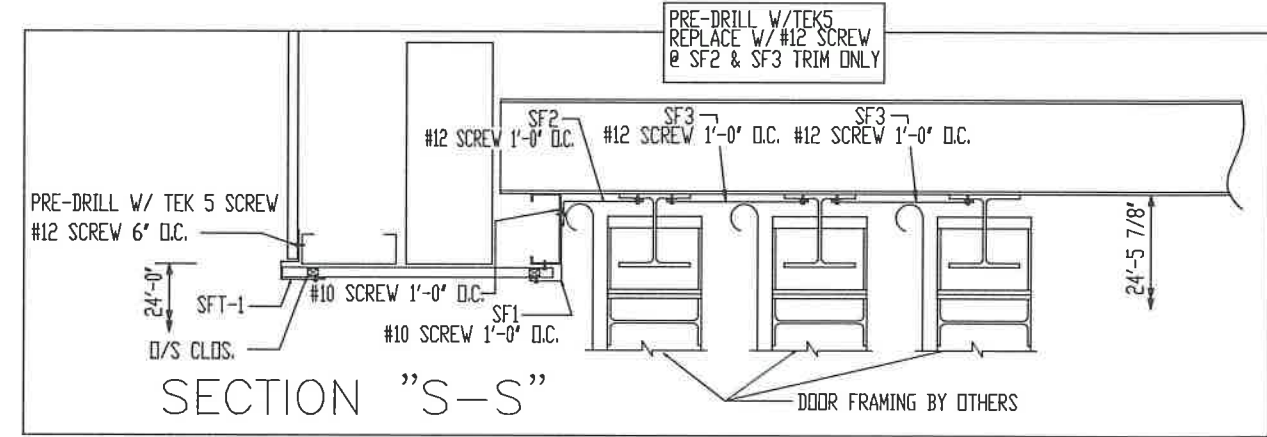
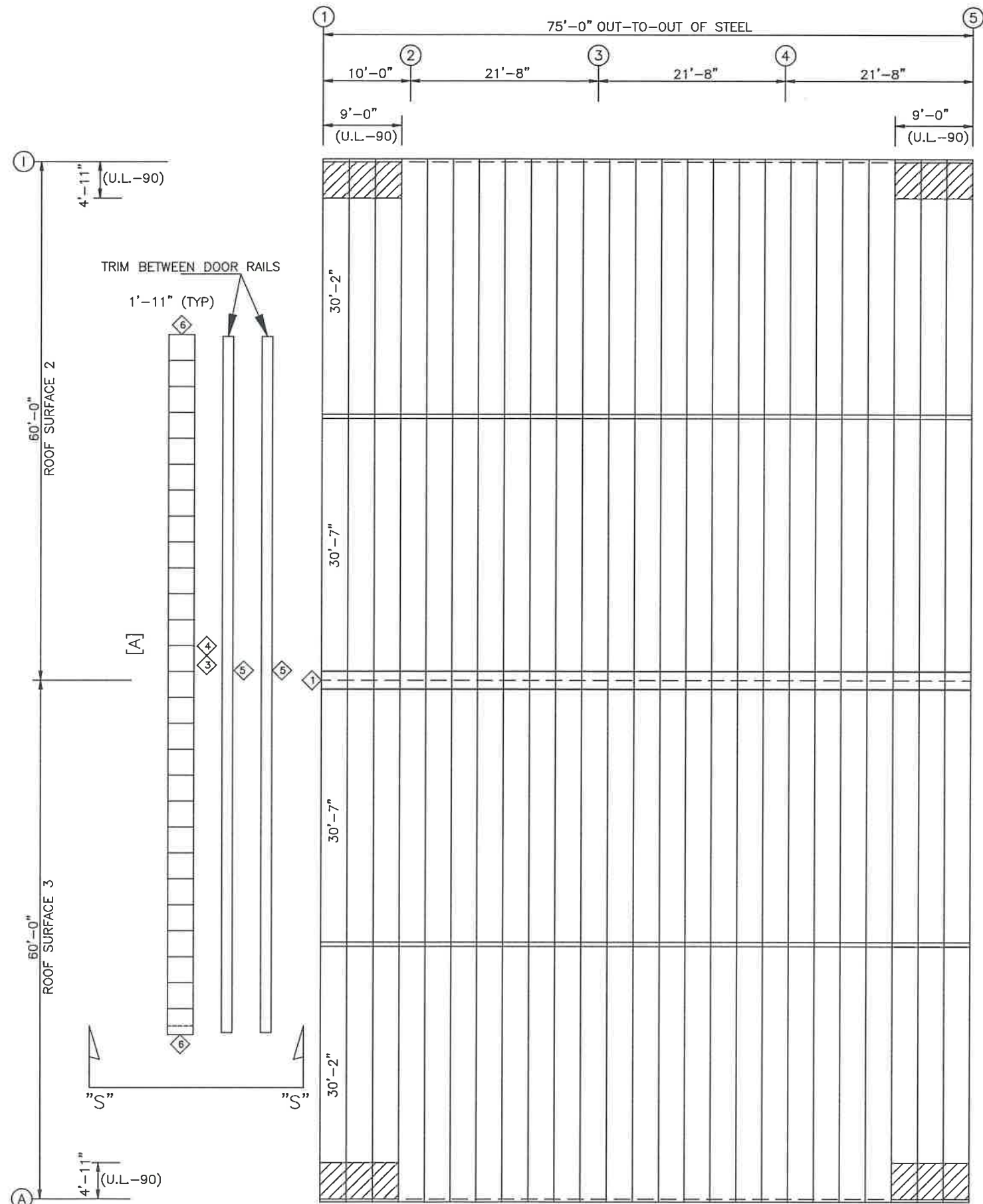
ANY FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE ERECTOR AND MBM IS NOT LIABLE FOR LABOR CHARGES NOR DAMAGES DUE TO ERROR.

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Hahira, GA 31632



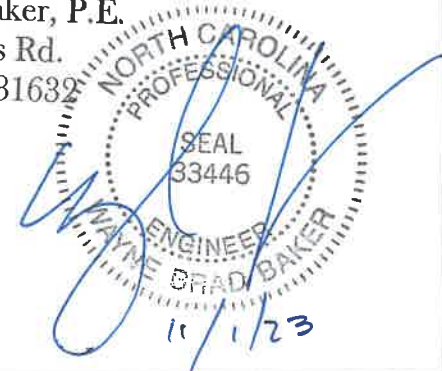
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: FRAMING DETAILS			
DRAWING NO: PAGE 5.4	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

TRIM TABLE		
ROOF PLAN		
ID	PART	LENGTH
1	D/F CAP6	3'-0"
3	SF1	20'-3"
4	SF2	20'-3"
5	SF3	20'-3"
6	R JAMB	2'-2"



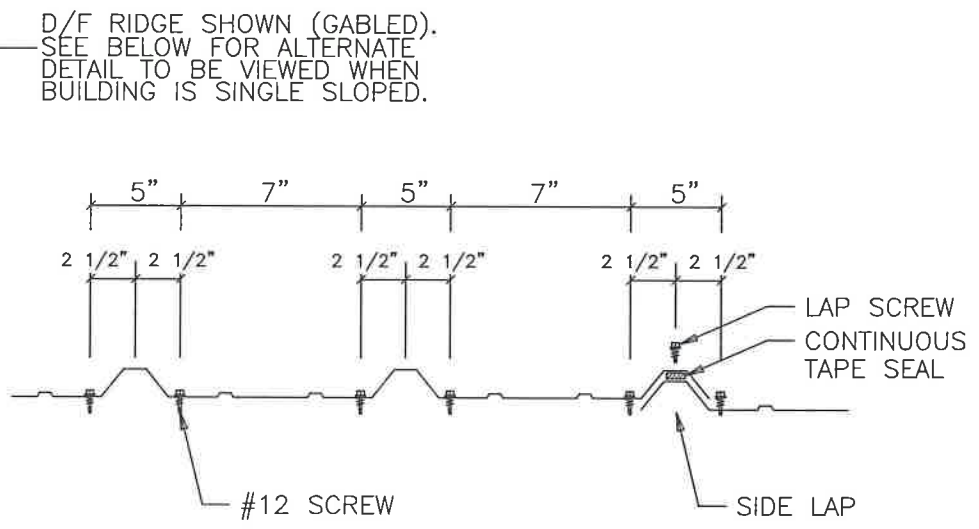
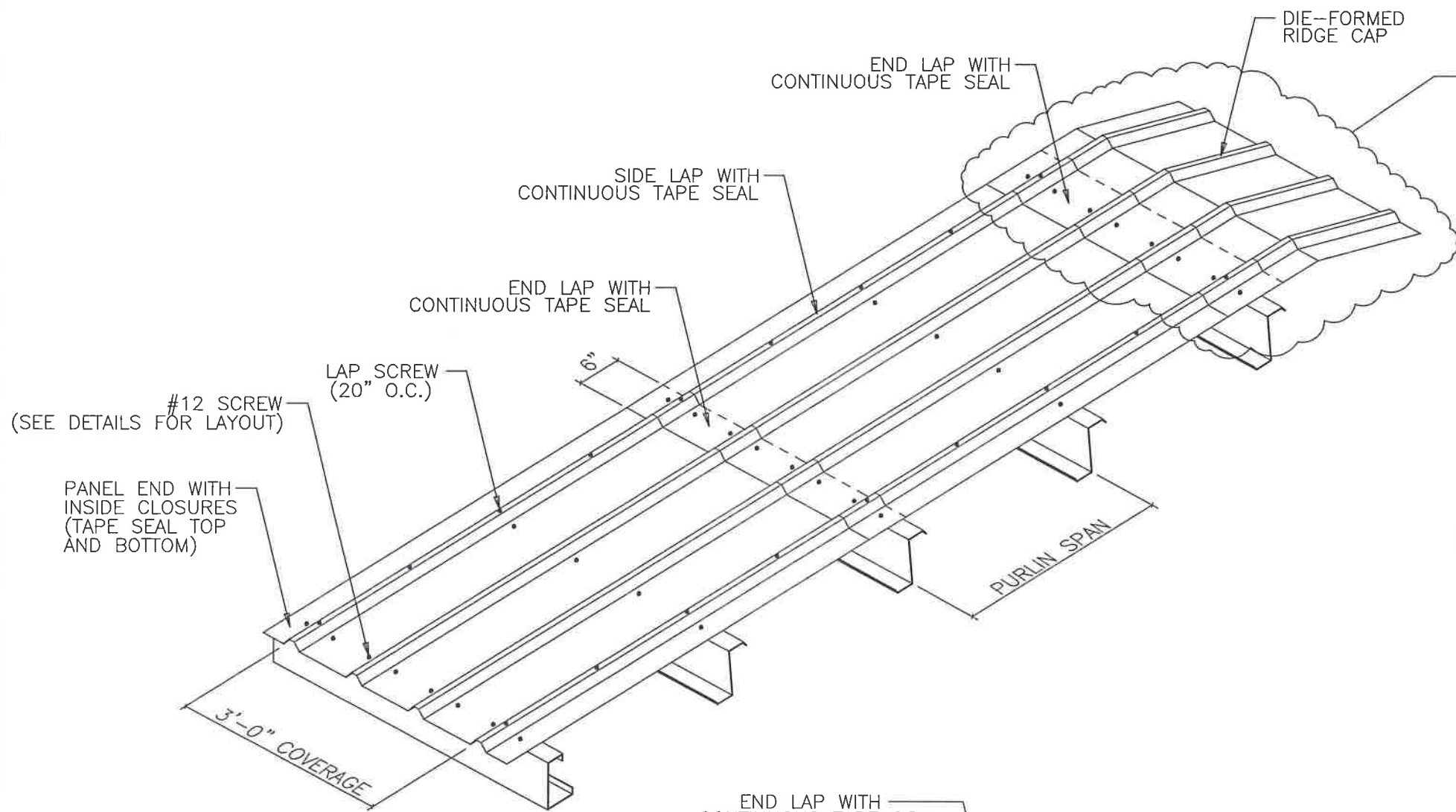
 = U.L. 90 SCREW PATTERN @ HATCHED IN AREAS WITHIN DIMENSIONS SHOWN ON ROOF SHEETING PLAN.

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235 Sanders Rd.  
Hahira, GA 31632

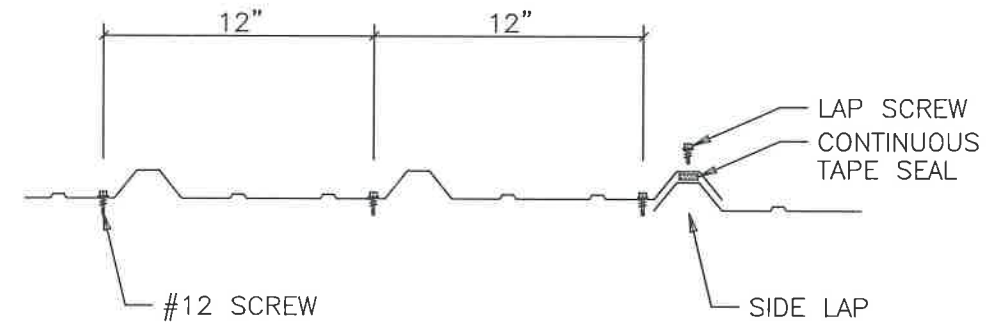


ROOF SHEETING PLAN  
PANELS: 26 GA. PBR - GALVALUME  
[A] SOFFIT PANELS: 26 GA. PBR - NEED COLOR

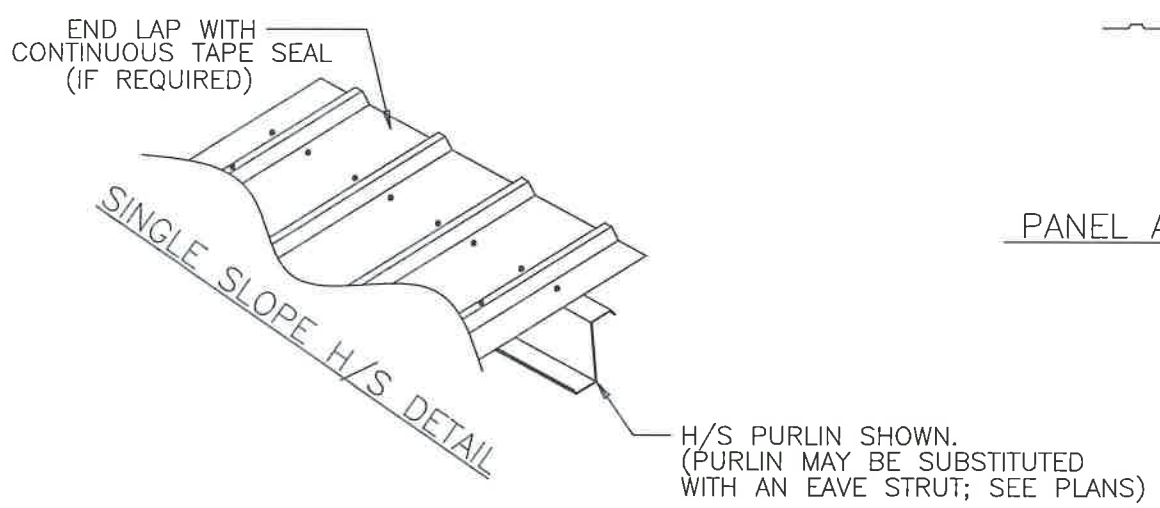
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245		DATE: 10/26/23	
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ROOF PANELS & TRIM			
DRAWING NO: PAGE 6	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



PANEL ATTACHMENT AT PANEL END  
(PEAK PURLIN, EAVE STRUT, AND PANEL END LAPS)



PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



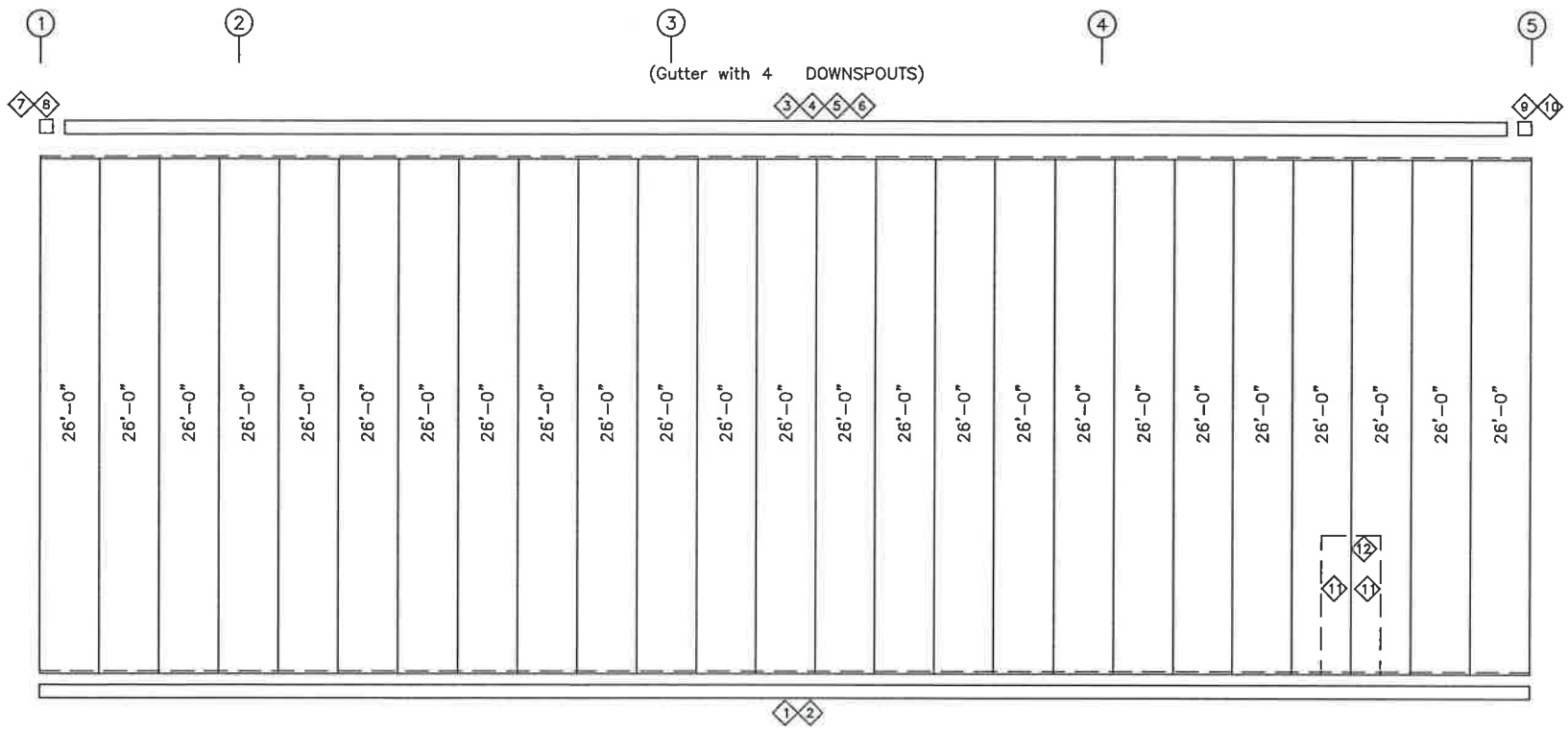
NOTES:

- [1] ALL END LAPS MUST BE A MINIMUM OF 6".
- [2] METAL SHAVINGS MUST BE SWEEPED FROM THE ROOF EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
- [3] TAPE SEAL MUST BE APPLIED WITH NO GAPS OR BREAKS.
- [4] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE PURLINS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

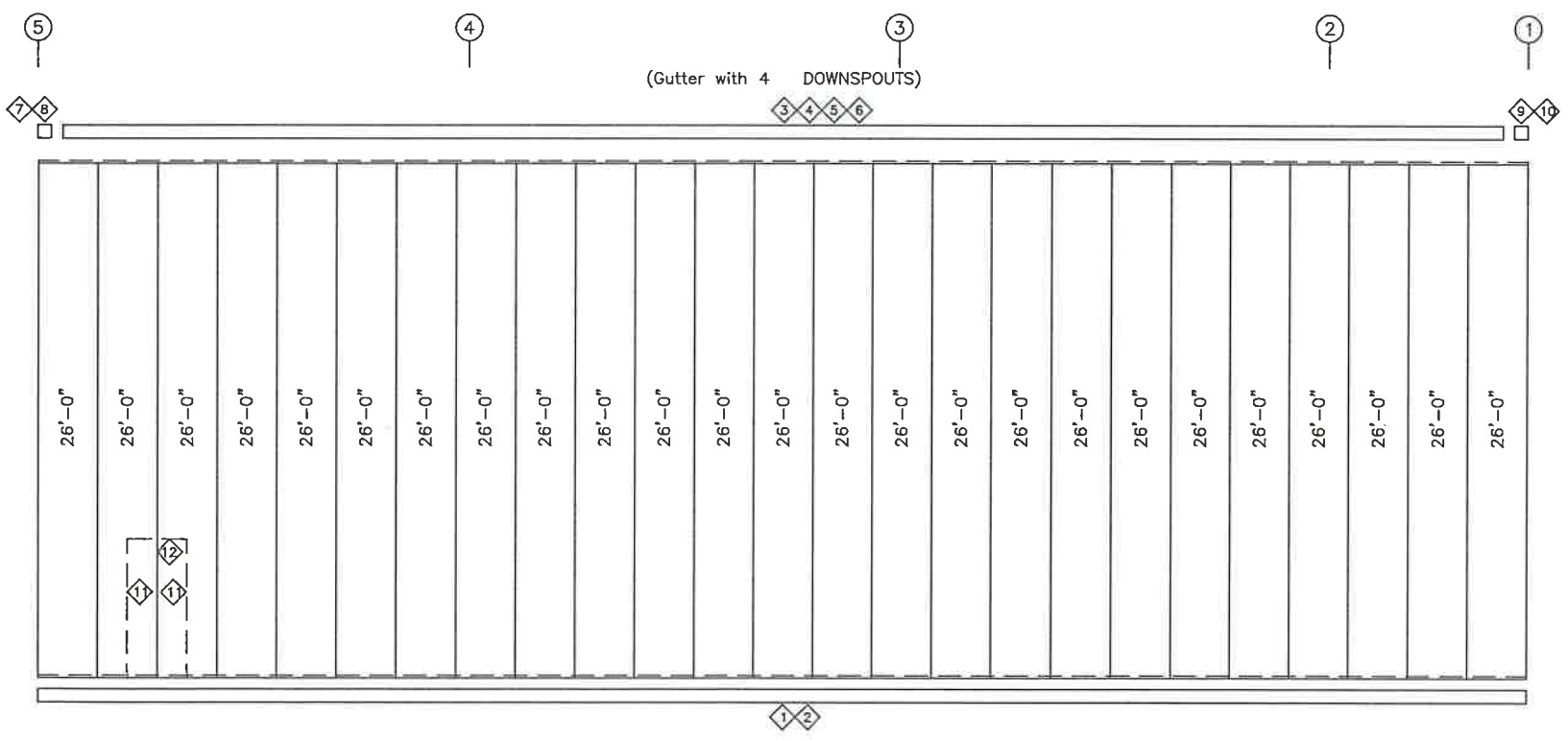
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Hahira, GA 31632



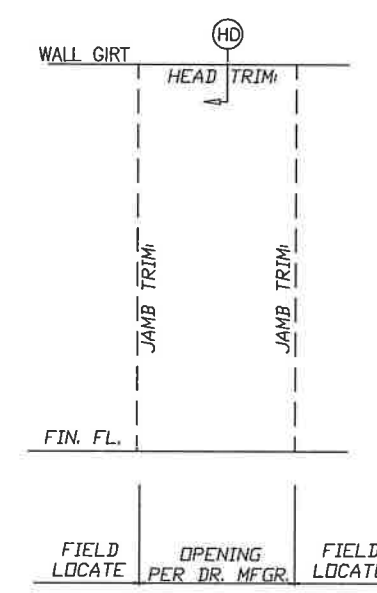
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ROOF PANEL DETAILS			
DRAWING NO: PAGE 6.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



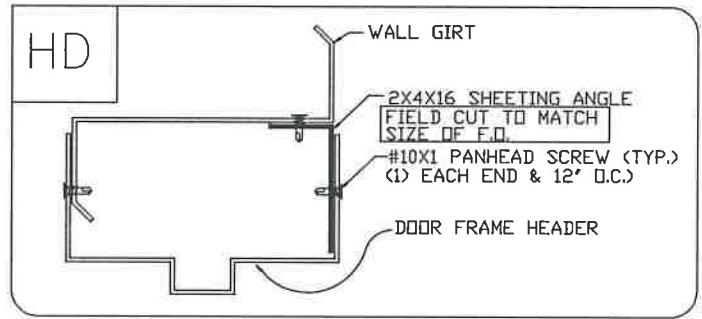
SIDEWALL SHEETING & TRIM: FRAME LINE A  
 PANELS: 26 GA. PBR - SADDLE TAN



SIDEWALL SHEETING & TRIM: FRAME LINE I  
 PANELS: 26 GA. PBR - SADDLE TAN

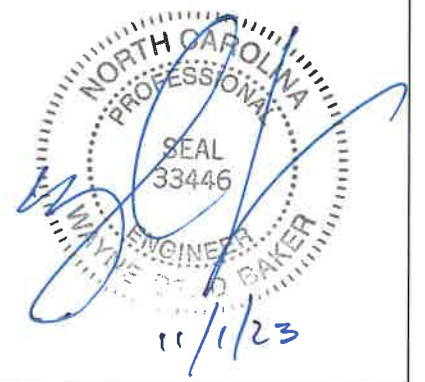


3070 TRIM KIT  
 1. FIELD CUT AND WORK GIRTS, PANELS, AND TRIM AS REQUIRED.  
 2. REFER TO DETAIL PAGES FOR APPLICABLE TRIM DETAILS. ( DETAIL PAGE 5.1 )

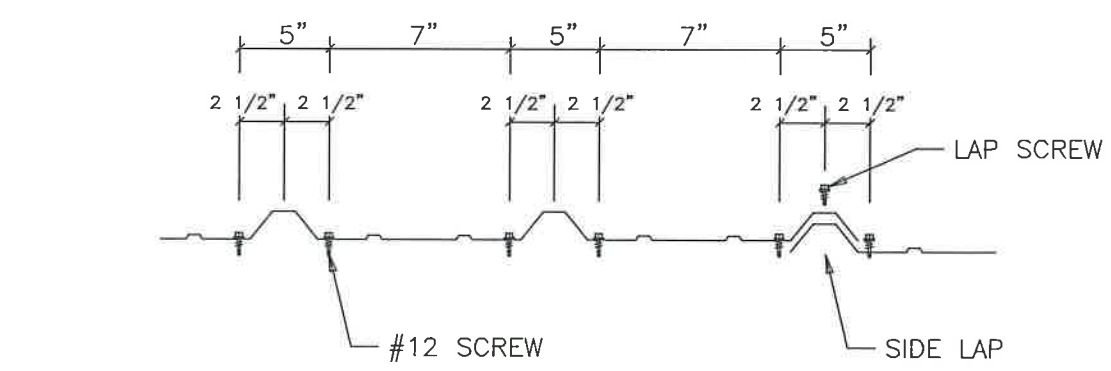
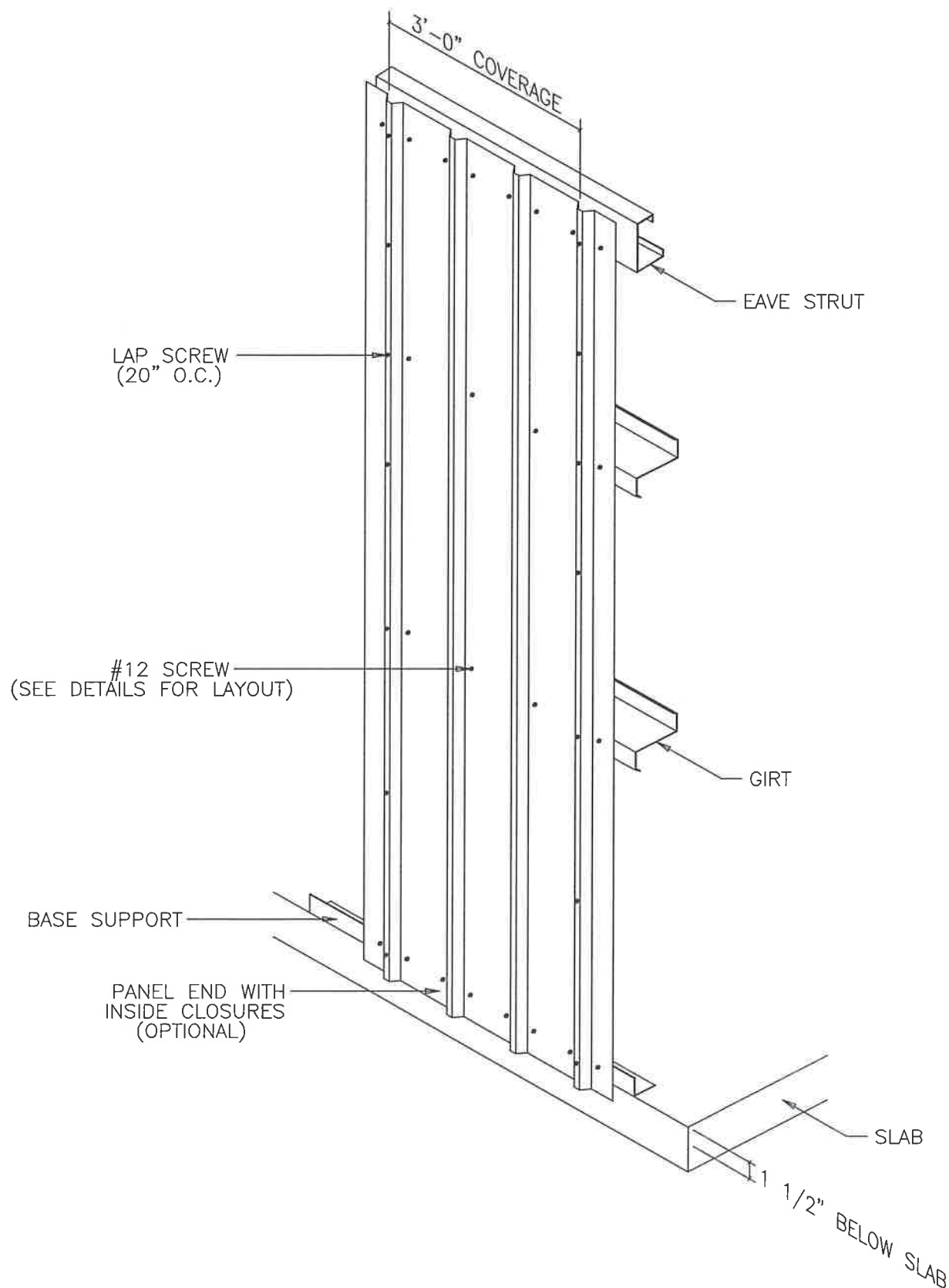


TRIM TABLE FRAME LINE A & I			
ID	PART	LENGTH	DETAIL
1	DRIP BASE	20'-3"	TRIM_16
2	DRIP BASE	15'-3"	TRIM_16
3	GUTTER	20'-3"	TRIM_1
4	GUTTER	15'-0"	TRIM_1
5	EAVE TRM	20'-3"	TRIM_120
6	EAVE TRM	15'-0"	TRIM_120
7	GUTEND L	1"	TRIM_2
8	CORBOX L	1'-0"	TRIM_2
9	GUTEND R	1"	TRIM_2
10	CORBOX R	1'-0"	TRIM_2
11	R JAMB	7'-3"	TRIM_8
12	R HEAD	3'-3"	TRIM_61

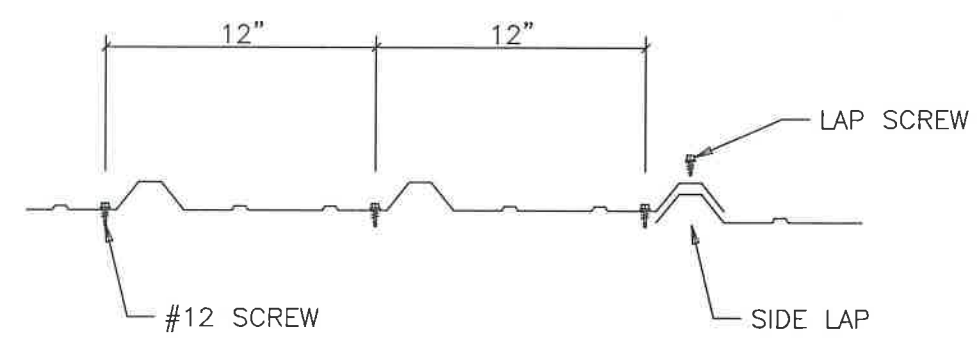
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 235 Sanders Rd.  
 Hahira, GA 31632



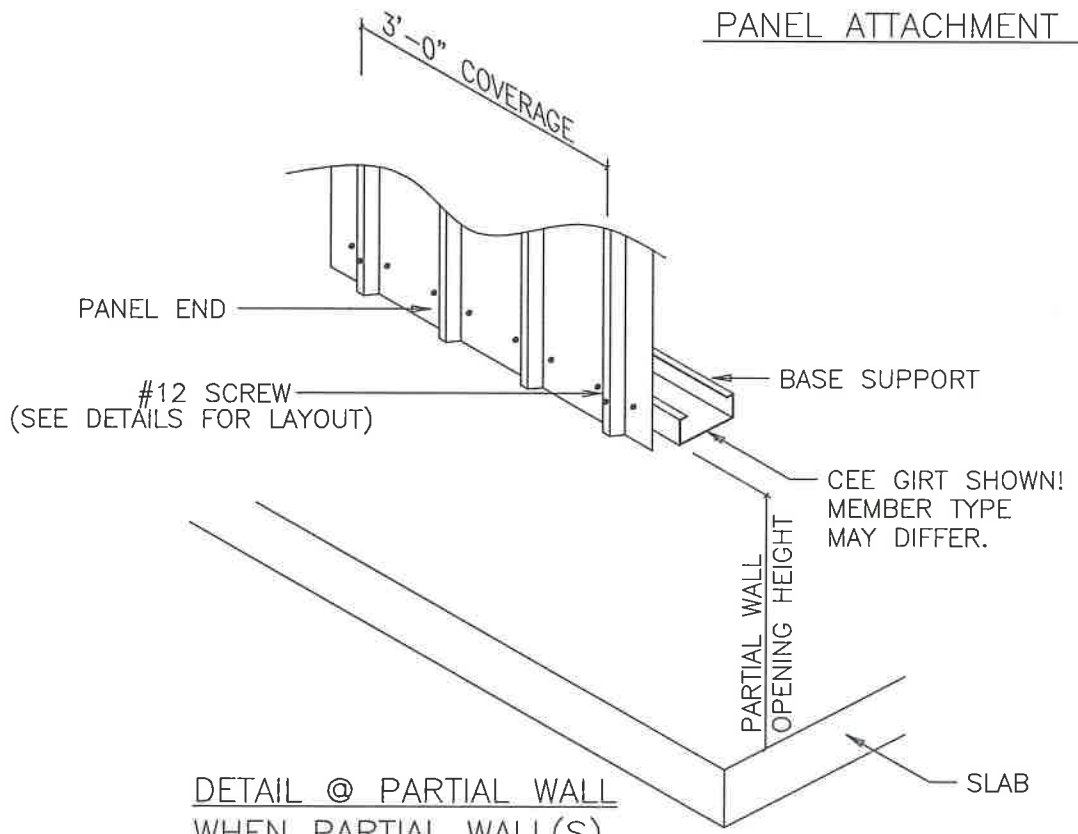
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL PANELS & TRIM			
DRAWING NO: PAGE 7	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



PANEL ATTACHMENT AT PANEL END  
(BASE, EAVE STRUT, HEADER, SILL, AND PANEL END LAPS)



PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



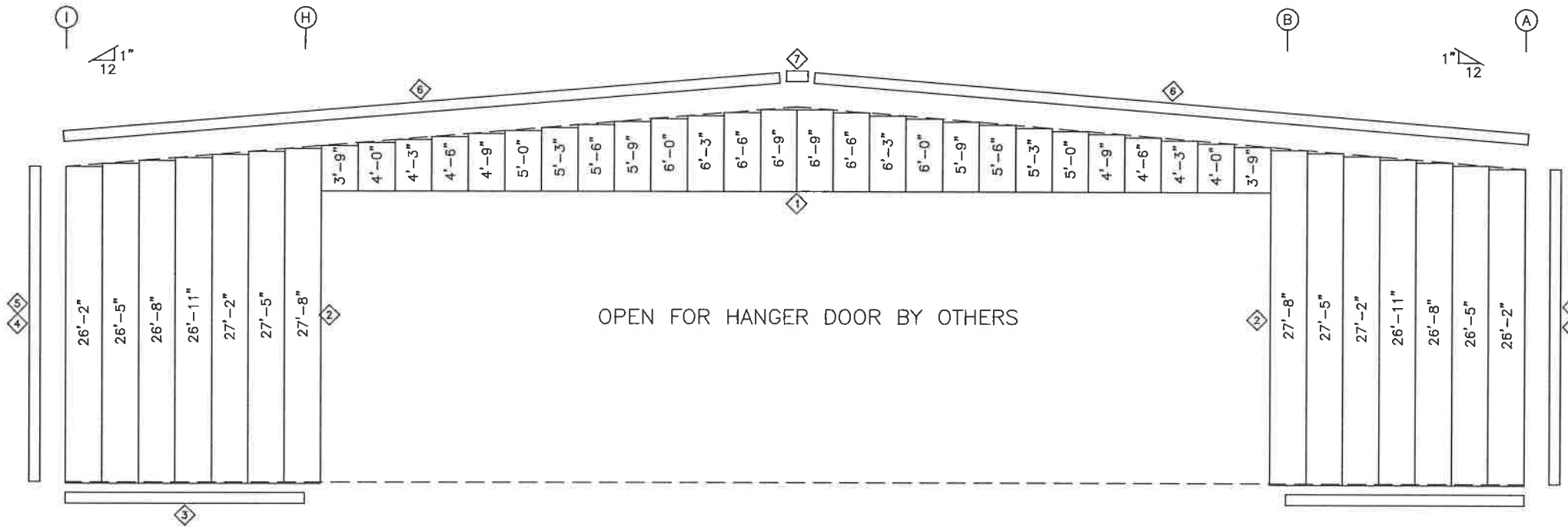
DETAIL @ PARTIAL WALL  
WHEN PARTIAL WALL(S)  
ARE PRESENT

- NOTES:
- [1] METAL SHAVINGS MUST BE SWEEPED FROM THE WALL EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
  - [2] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE GIRTS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

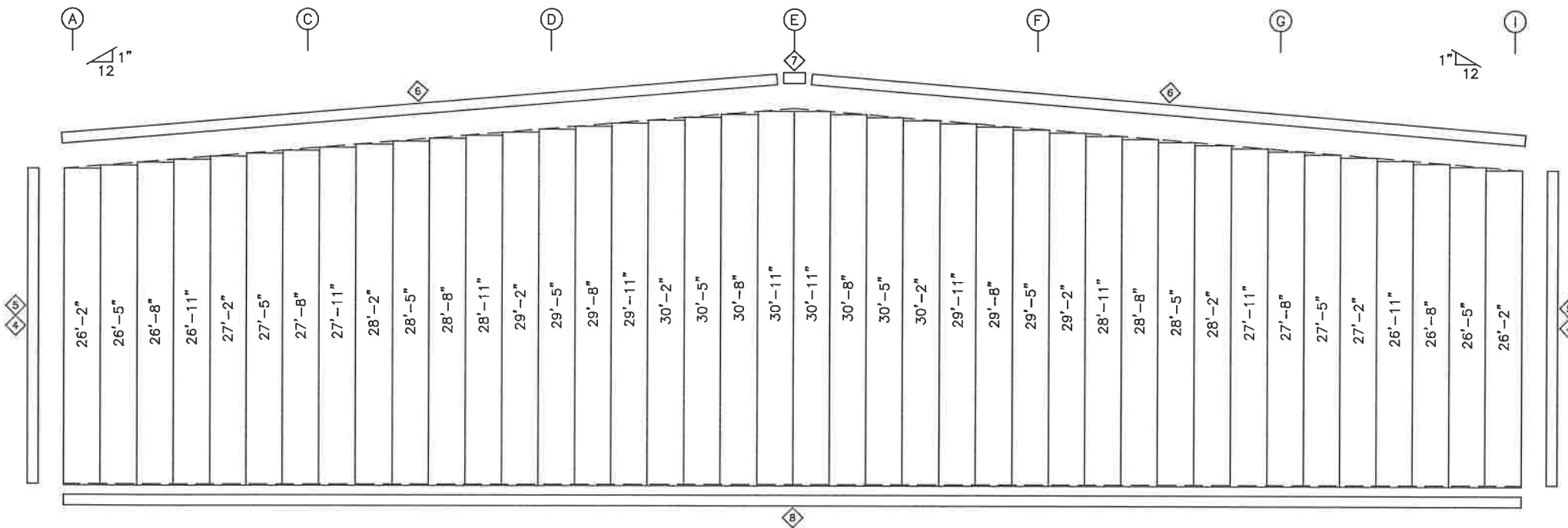
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235 Sanders Rd.  
Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SIDEWALL PANEL DETAILS			
DRAWING NO: PAGE 7.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

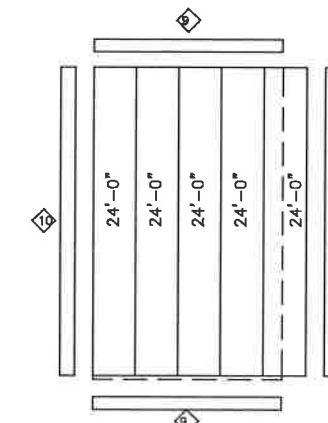


ENDWALL SHEETING & TRIM: FRAME LINE 1  
PANELS: 26 GA. PBR - SADDLE TAN

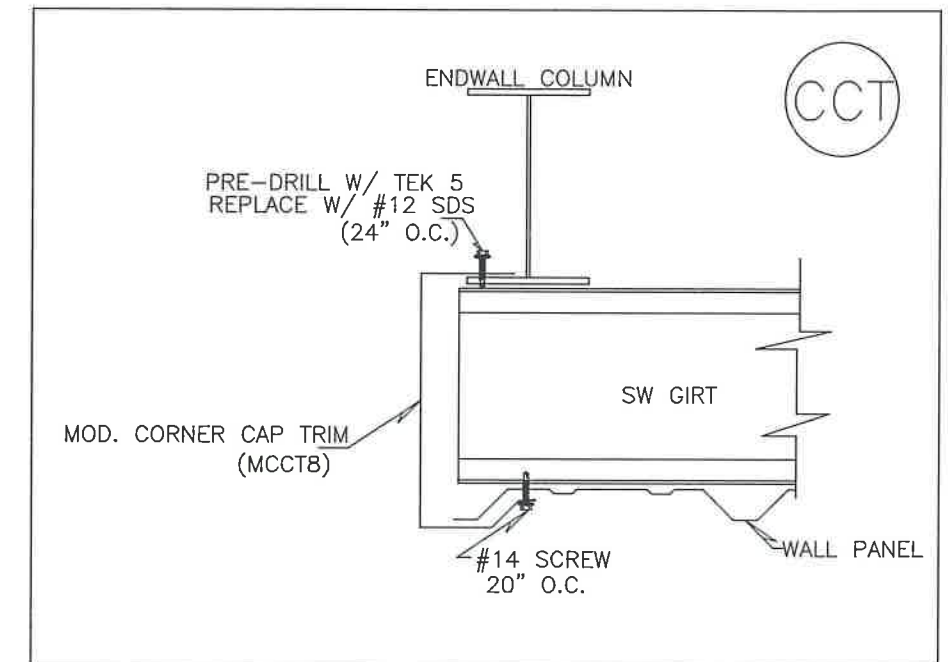


ENDWALL SHEETING & TRIM: FRAME LINE 5  
PANELS: 26 GA. PBR - SADDLE TAN

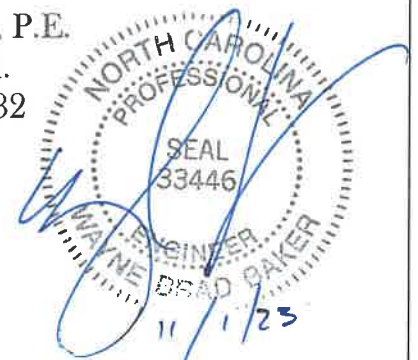
TRIM TABLE FRAME LINE 1 & 5			
ID	PART	LENGTH	DETAIL
1	SFT-1	20'-3"	"S-S"
2	MCCT8	12'-3"	CCT
3	DRIP BASE	19'-11"	TRIM_16
4	O/S CORN	20'-3"	TRIM_5
5	O/S CORN	6'-2"	TRIM_5
6	RAKE TRM	20'-3"	TRIM_3
7	PEAK BOX	1'-4"	TRIM_4
8	DRIP BASE	20'-3"	TRIM_16
9	R HEAD	13'-7"	
10	R JAMB	12'-3"	



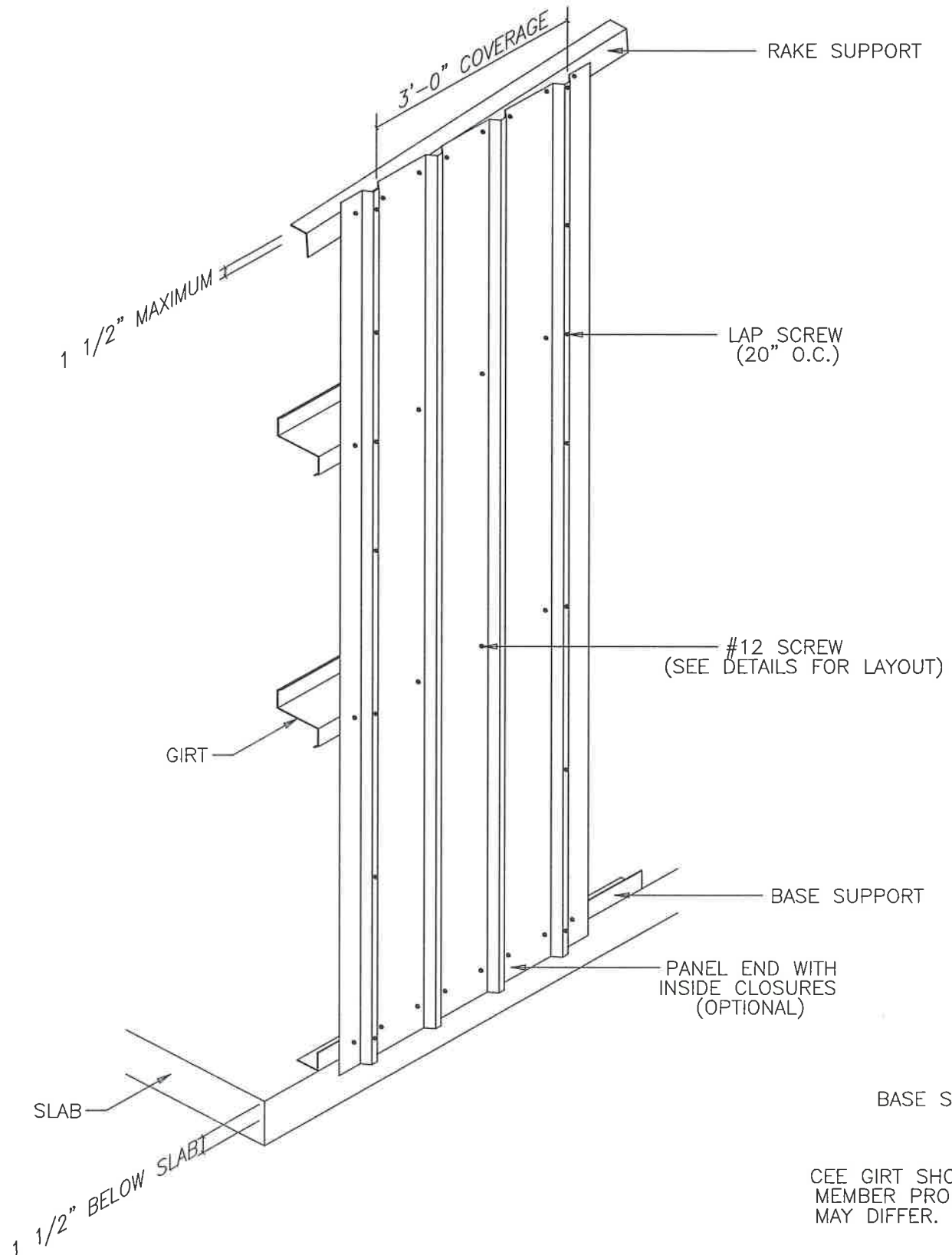
HANGAR DOOR: QTY 6  
DOOR FRAMING BY OTHERS  
SHEET ON ONE SIDE ONLY  
PANELS: 26 GA. PBR - SADDLE TAN



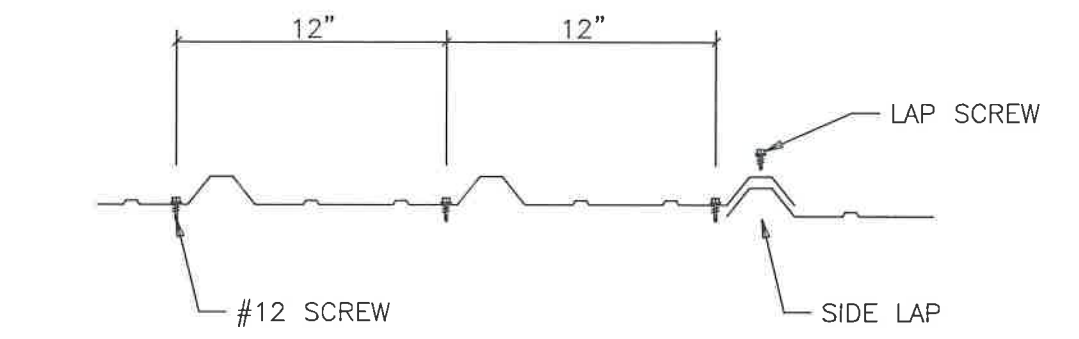
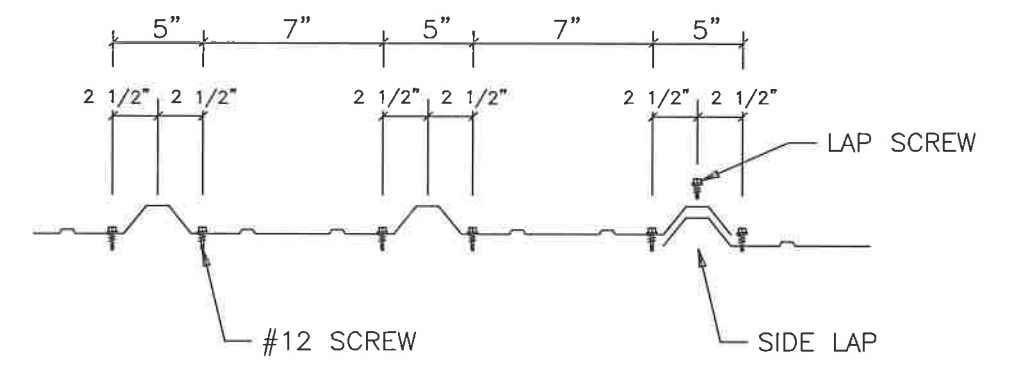
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Hahira, GA 31632



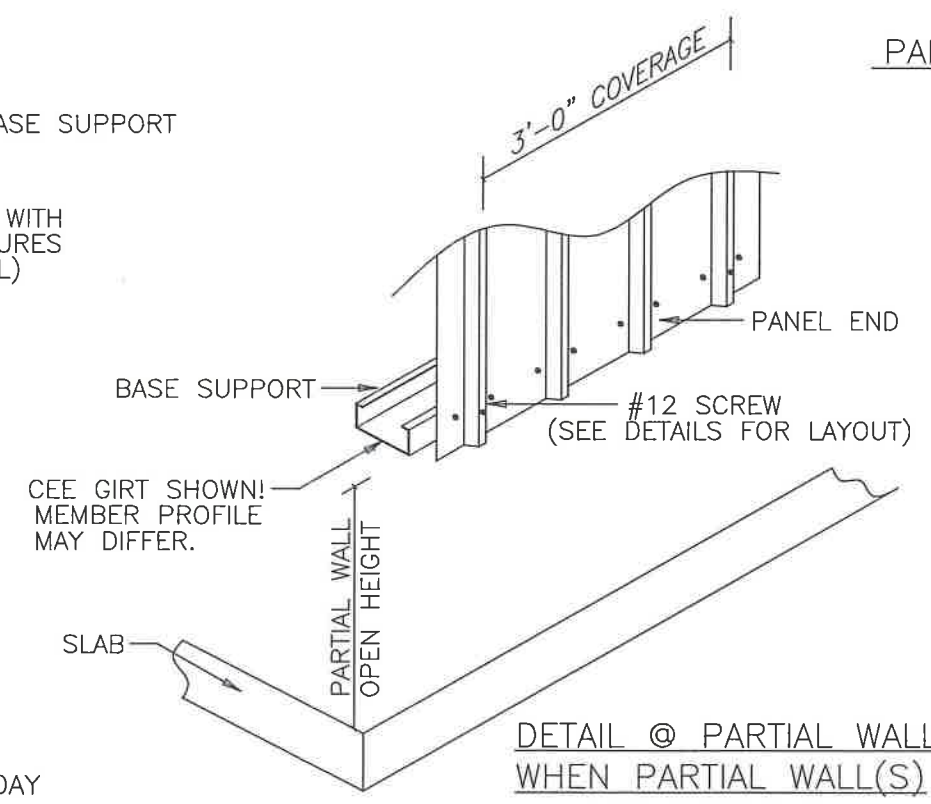
ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL PANELS & TRIM			
DRAWING NO: PAGE 8	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



PANEL ATTACHMENT AT PANEL END  
 (BASE, EAVE STRUT, HEADER, SILL, AND PANEL END LAPS)



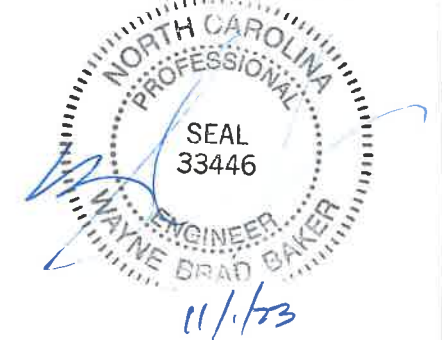
PANEL ATTACHMENT AT INTERMEDIATE MEMBERS



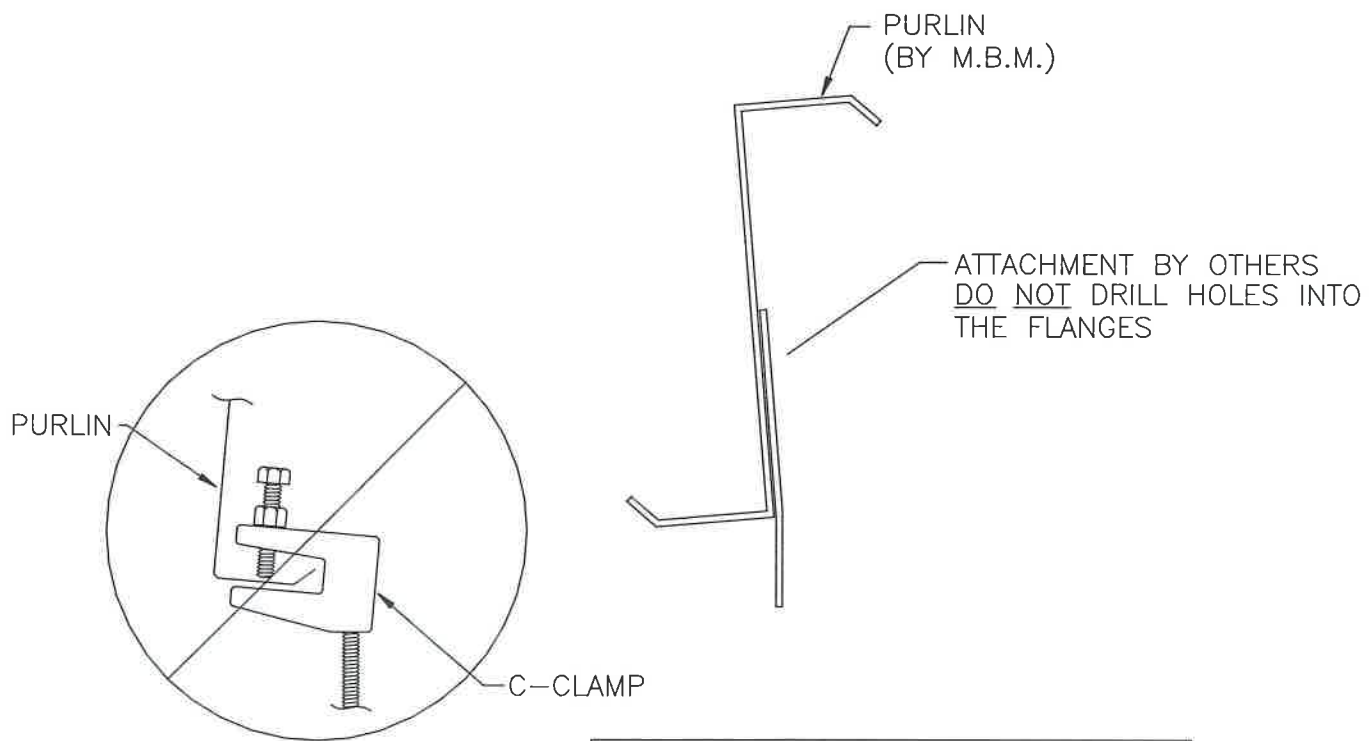
DETAIL @ PARTIAL WALL  
WHEN PARTIAL WALL(S)  
ARE PRESENT

- NOTES:
- [1] METAL SHAVINGS MUST BE SWEEPED FROM THE WALL EACH DAY DURING ERECTION TO PREVENT SURFACE RUSTING.
  - [2] #12 SCREWS ARE USED TO ATTACH THE PANEL TO THE GIRTS. #14 LAP SCREWS ARE USED AT THE PANEL-TO-PANEL ATTACHMENTS. ALL FASTENERS ARE SELF-DRILLING.

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 235 Sanders Rd.  
 Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: ENDWALL PANEL DETAILS			
DRAWING NO: PAGE 8.1	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



Flange C-Clamp is not an acceptable connection

**NOTE:** M.B.M. only provides the roof purlin. All other material and hardware is by others.

Recommended Connection Detail

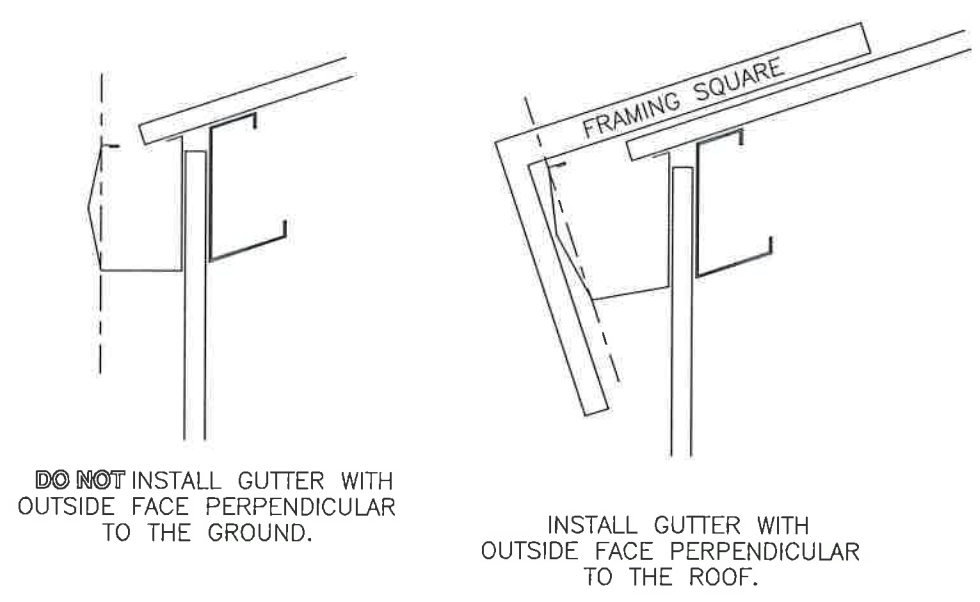
NOTE

MANY FACTORS BEYOND THE CONTROL OF THE METAL BUILDING SUPPLIER AFFECT THE ABILITY OF A PURLIN TO SAFELY SUPPORT HANGING LOADS COMBINED WITH OTHER REQUIRED ROOF LOADS. DUE TO THE VARIABLES INVOLVED IN HANGING LOADS AND THEIR ATTACHMENTS TO THE PURLINS, THE METAL BUILDING SUPPLIER CANNOT ASSURE THAT THE PURLINS FOR A PARTICULAR BUILDING PROJECT CAN SAFELY SUPPORT THE MAXIMUM ALLOWABLE HANGING LOADS IN COMBINATION WITH OTHER ROOF LOADS.

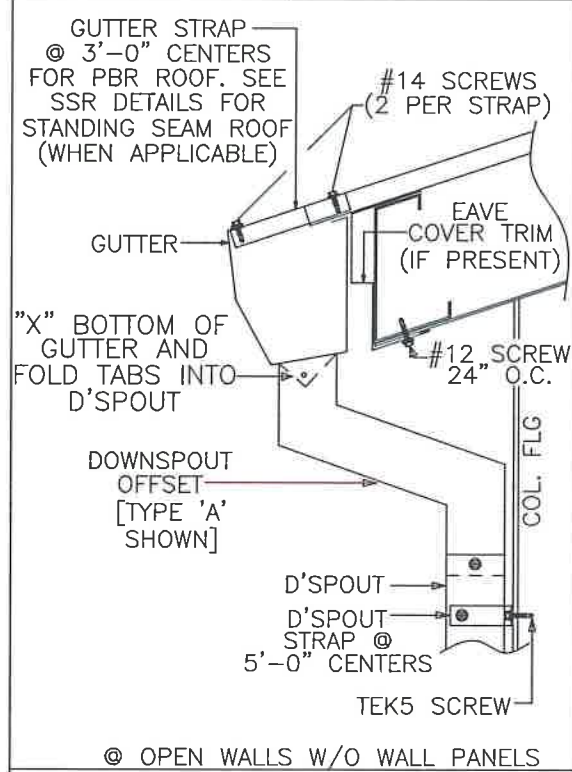
IT IS THE RESPONSIBILITY OF THE HANGER SYSTEM INSTALLER TO COORDINATE WITH THE ENGINEER OF RECORD FOR THE OVERALL PROJECT TO ENSURE A SAFE HANGING LOAD INSTALLATION. THE METAL BUILDING ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT. WITHOUT SPECIFIC CERTIFICATION FOR INDIVIDUAL HANGING LOADS, THE NET EFFECTS OF APPLIED HANGER LOADS INSTALLED ON A PARTICULAR PURLIN SHALL NOT EXCEED THE NET EFFECTS OF THE CERTIFIED UNIFORMLY APPLIED DESIGN COLLATERAL LOAD.

HANGING LOADS SHOULD NOT BE APPLIED TO THE PURLIN LIP. WHERE PERMISSIBLE, THE BEST PRACTICE FOR HANGING LOADS IS TO ATTACH TO THE PURLIN WEB USING A BOLT AND NUT, OR SELF-DRILLING SCREWS.

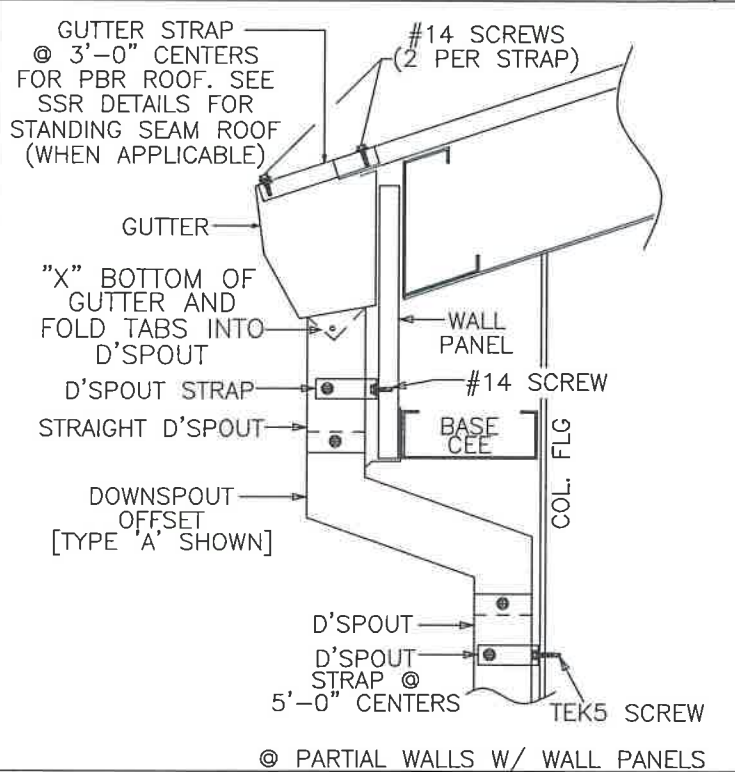
HANGING UNIFORM LOADS SUCH AS SPRINKLER MAINS OR HVAC EQUIPMENT SHOULD BE DISTRIBUTED OVER SEVERAL PURLINS, AND SHOULD NEVER EXCEED THE COLLATERAL LOAD ALLOWANCE FOR THE ROOF SYSTEM. FOR UNIFORM LOADS THAT RUN PARALLEL TO THE PURLINS, IT MAY BE NECESSARY TO USE TRANSVERSE SUPPORT CHANNELS (A.K.A. TRAPEZE BEAMS) ATTACHED TO THE WEBS OR FLANGES OF ADJACENT PURLINS TO SPREAD THE LOAD BETWEEN TWO OR MORE PURLINS. IN SUCH CASES, CONTACT THE BUILDING MANUFACTURER OR A LOCAL PROFESSIONAL ENGINEER PRIOR TO ATTEMPTING TO HANG LOADS FROM THE PURLINS



GUTTER INSTALLATION DETAIL  
(ONLY IF PROVIDED)



@ OPEN WALLS W/O WALL PANELS



@ PARTIAL WALLS W/ WALL PANELS

**NOTE:** REGARDLESS OF DOWNSPOUT OFFSET SCENARIO, TEK5 SCREWS MUST BE USED TO ATTACH DOWNSPOUT STRAPS TO PEMB FRAMING. WHEN WALL PANELS SPAN FROM GROUND TO EAVE (FULL SPAN), #14 SCREWS WILL BE USED TO ATTACH DOWNSPOUT STRAPS TO WALL PANELS.

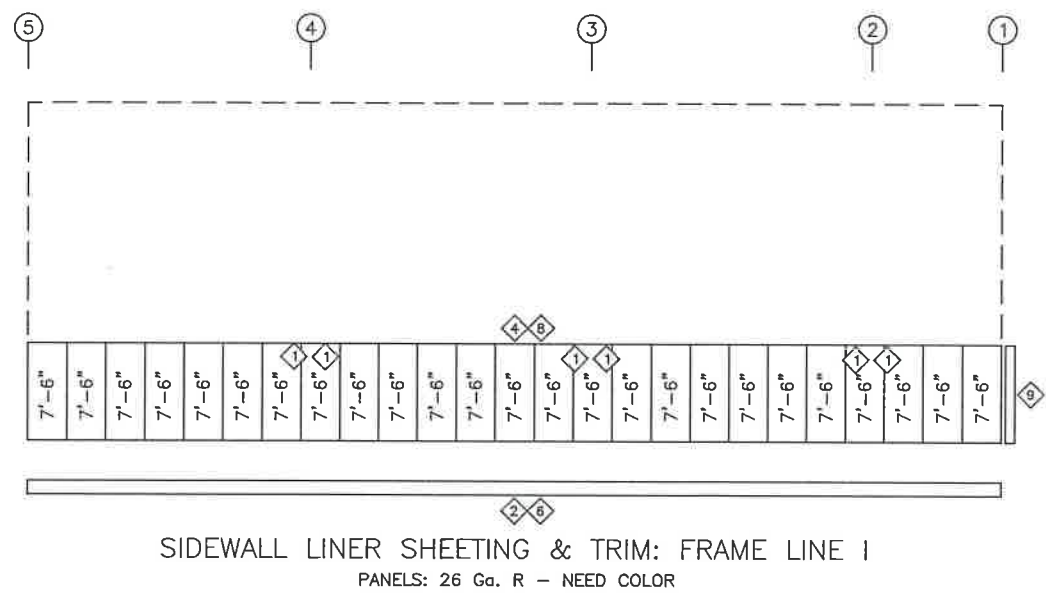
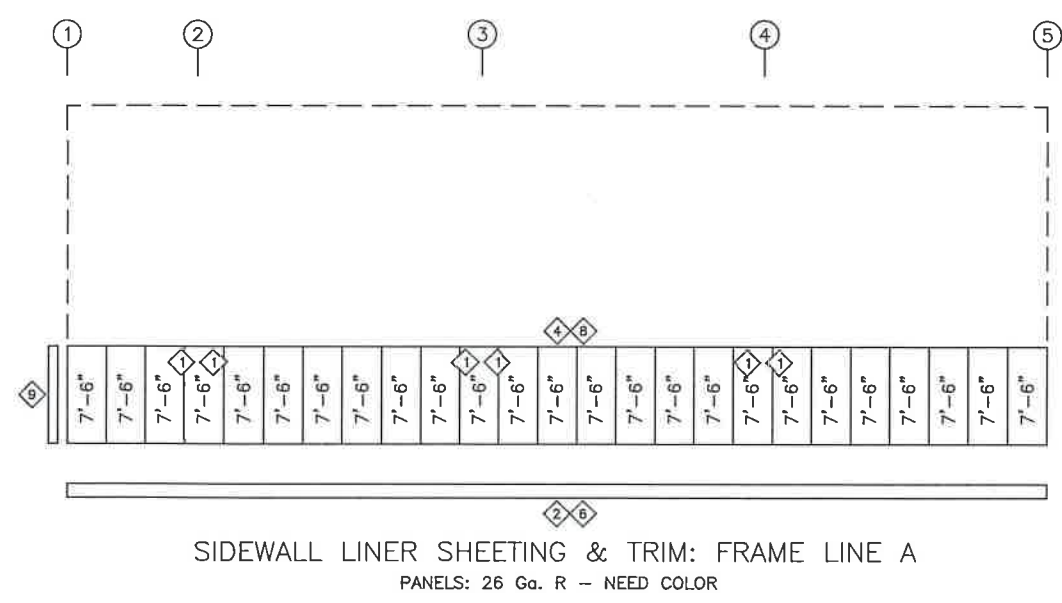
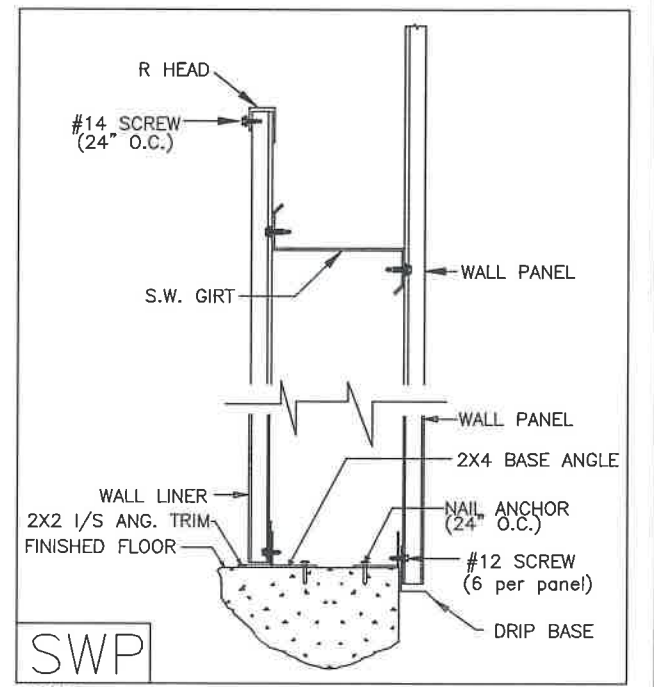
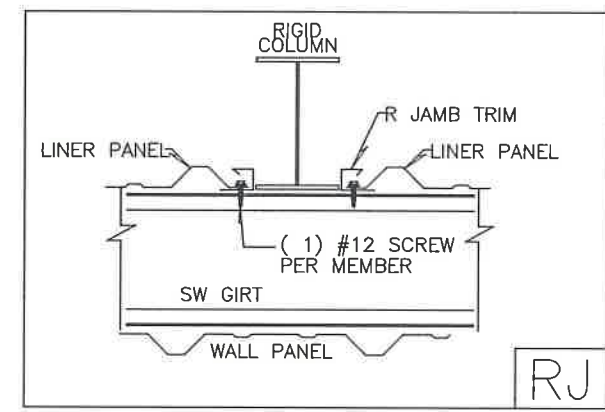
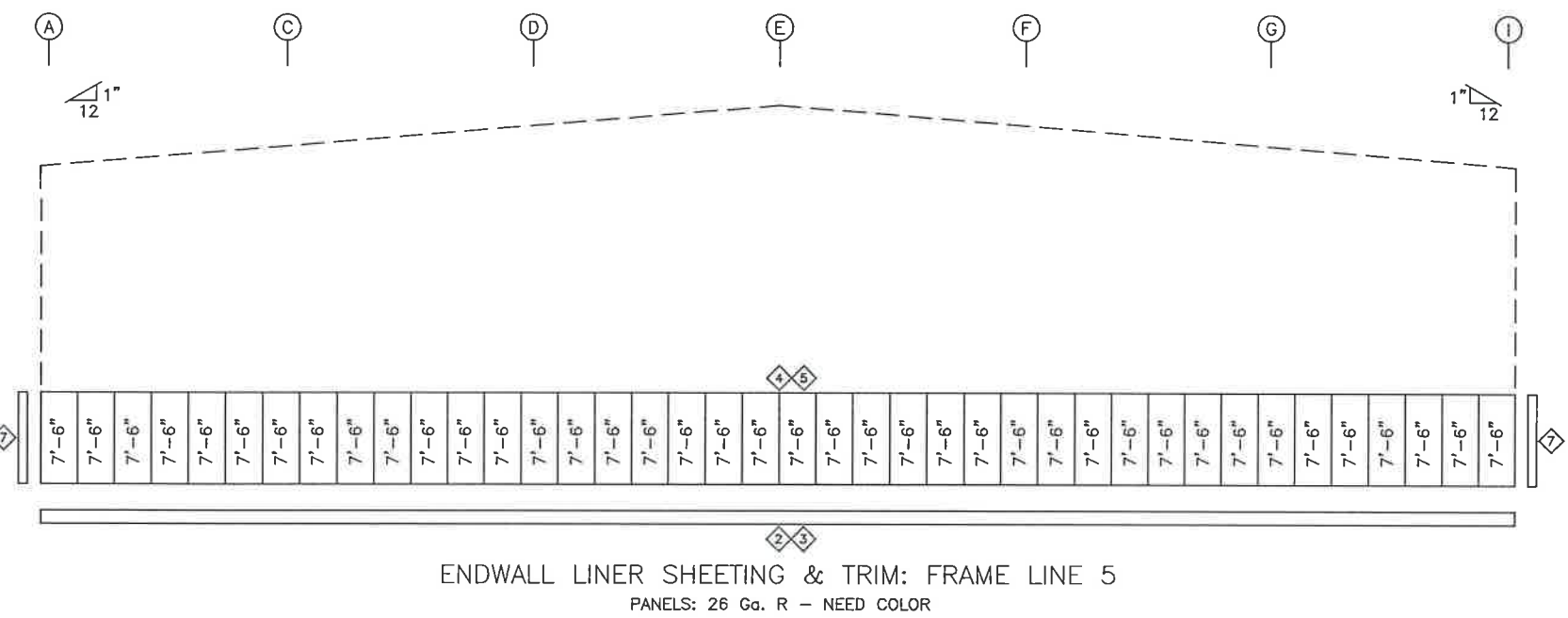
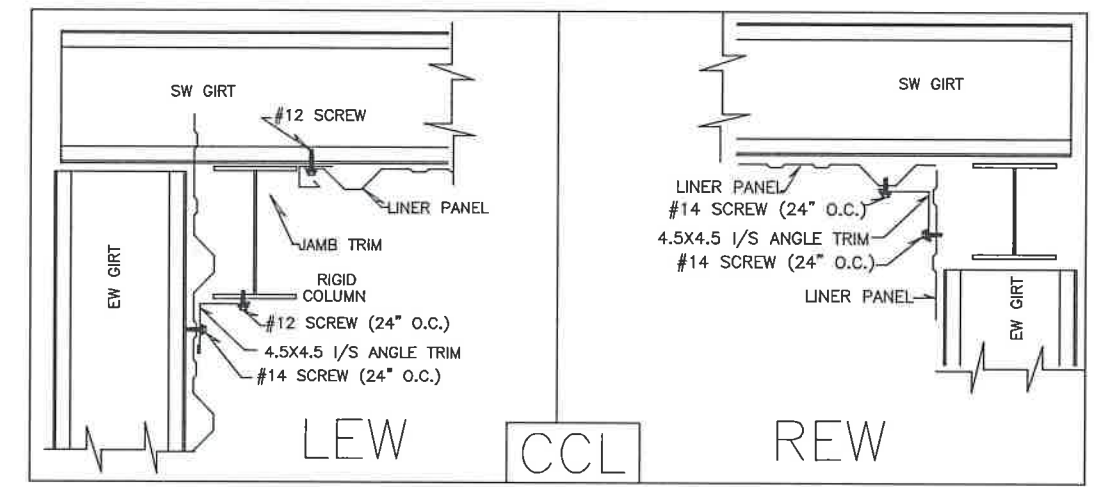
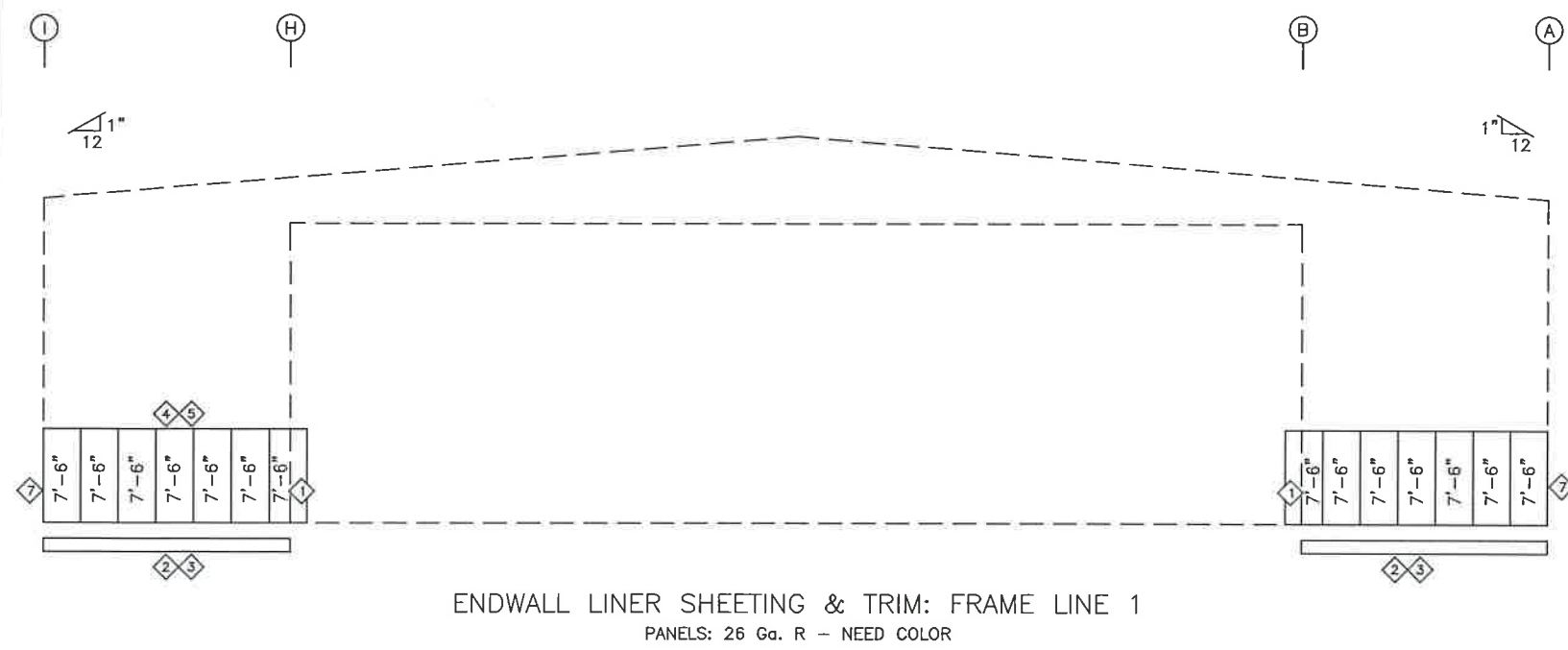
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235 Sanders Rd.  
Hahira, GA 31632



ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: SPECIAL DETAILS			
DRAWING NO: PAGE 9	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE



TRIM TABLE			
FRAME LINE 1 A 5 I			
ID	PART	LENGTH	DETAIL
1	R JAMB	7'-9"	RJ
2	2x2 1/S	20'-3"	SWP
3	2x2 1/S	5'-3"	SWP
4	R HEAD	20'-3"	SWP
5	R HEAD	5'-3"	SWP
6	2x2 1/S	15'-3"	SWP
7	4.5x4.5 0/S	7'-6"	CCL
8	R HEAD	15'-3"	SWP
9	R JAMB	7'-9"	CCL



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235 Sanders Rd.  
Hahira, GA 31632

ISSUE	DET	CHK	DATE
STEELCOR BUILDINGS			
CUSTOMER: ERWIN HANGAR			
JOB NO: 8245	DATE: 10/26/23		
LOCATION: ERWIN, NC 28339			
DRAWING NAME: LINER SHEETING & TRIM			
DRAWING NO: PAGE 10	DRAWN BY: DAR	CHECKED BY: SPW	SCALE: NONE

Drawing File: \\S:\2023\Customers\Hanger\_2023-06-08\DWG\Harnett-Airport-Foundation-18 Dec 2023 Ric.dwg  
 Printed By: Ric  
 Printed Date: Sun 29, 2024 - 2:58pm

**SHEET INDEX:**

- CS COVER SHEET & INDEX TO DRAWINGS
- BCS BUILDING CODE SUMMARY
- LS BUILDING LIFE SAFETY – EGRESS PLAN
- SP DEFERRED SUBMITTALS BY OTHER
- S1 FOUNDATION PLAN & ANCHOR BOLT PLAN
- S2 FOUNDATION & FOOTING DETAILS
  
- G1 BUILDING FLOOR PLAN

**PROJECT:**

# HARNETT REGIONAL AIRPORT HANGAR

615 AIRPORT ROAD  
 ERWIN, NORTH CAROLINA 28339

**PROJECT TEAM:**

**BUILDING DEPARTMENT:**

HARNETT COUNTY  
 INSPECTION DEPARTMENT  
 420 MCKINNEY PARKWAY  
 LILLINGTON, NC 27546  
 910-893-2793

**PROJECT DESIGNER:**

JENKINS CONSULTING ENGINEERS, P.A.  
 OFFICE in EUREKA SPRINGS, NC  
 KELLY J. DODSON, PE  
 1606 MCARTHUR ROAD  
 FAYETTEVILLE, NC 28311-1002  
 910-822-1724

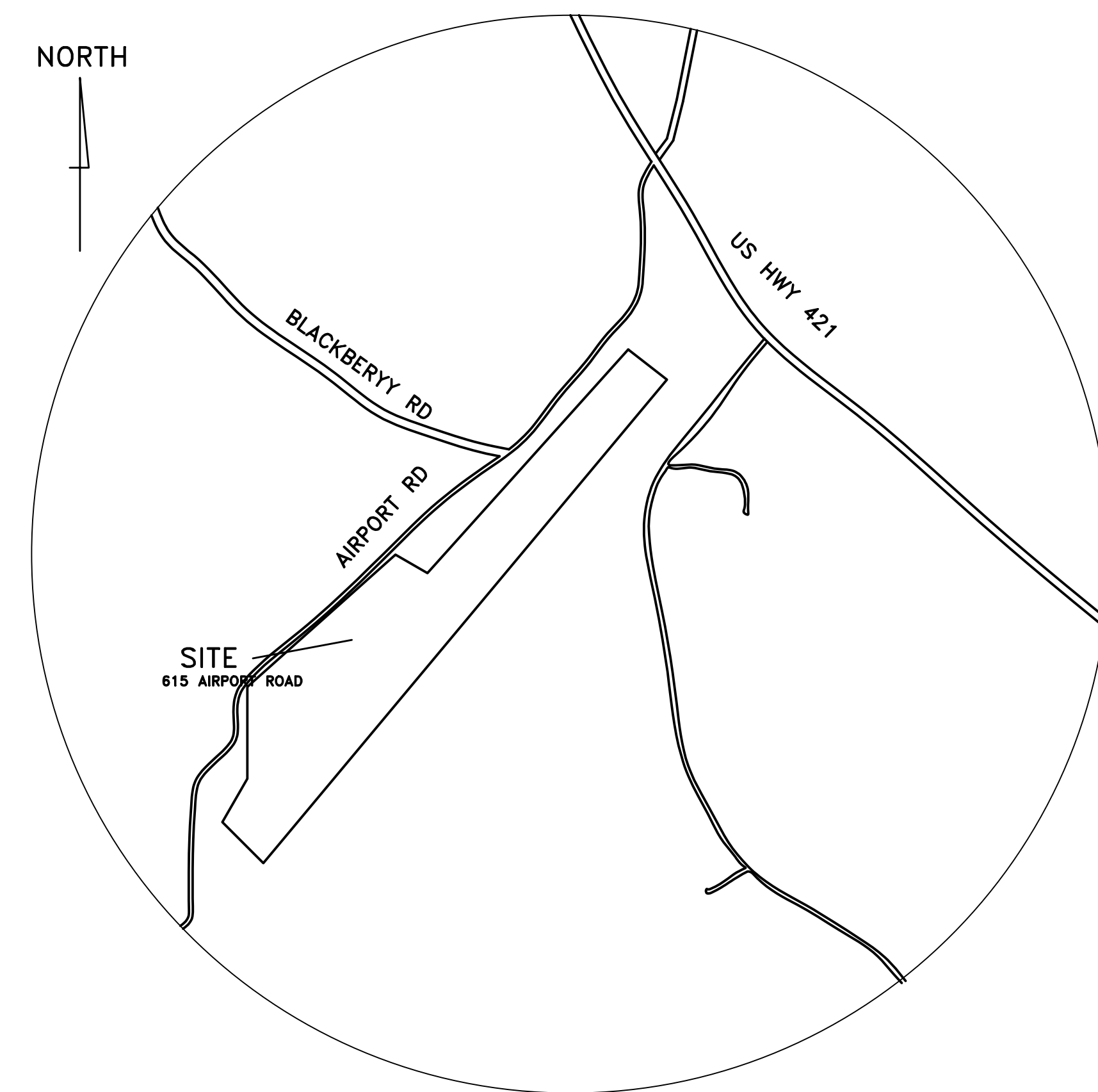
**CODE REVIEW:**

APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- BUILDING            2018 NC EXISTING BUILDING CODE  
                           2018 NC BUILDING CODE
- FIRE PREVENTION   2018 NC FIRE CODE
- ENERGY              2018 NC ENERGY CONSERVATION CODE

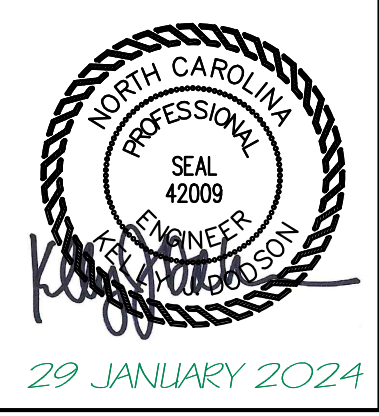
**VICINITY PLAN**

NOT TO SCALE



**BUILDING DATA:**

THE PROJECT SCOPE IS TO CONSTRUCT A NEW BUILDING FOR USE AS AN AIRCRAFT HANGAR



DESIGNED / CHECKED BY:	KJD	BT
DRAWN BY:		
PROJECT #:	2023-06-09	
DATE:	29 JANUARY 2024	

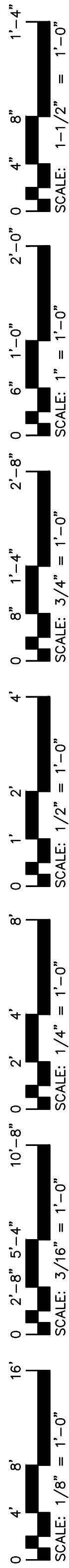
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PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY	
FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION	
OWNER/TENANT:	
CONTRACTOR/BUILDER:	

PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 615 AIRPORT RD. ERWIN, NC 28339

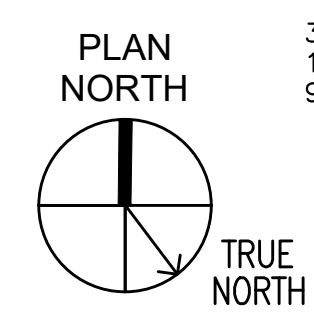
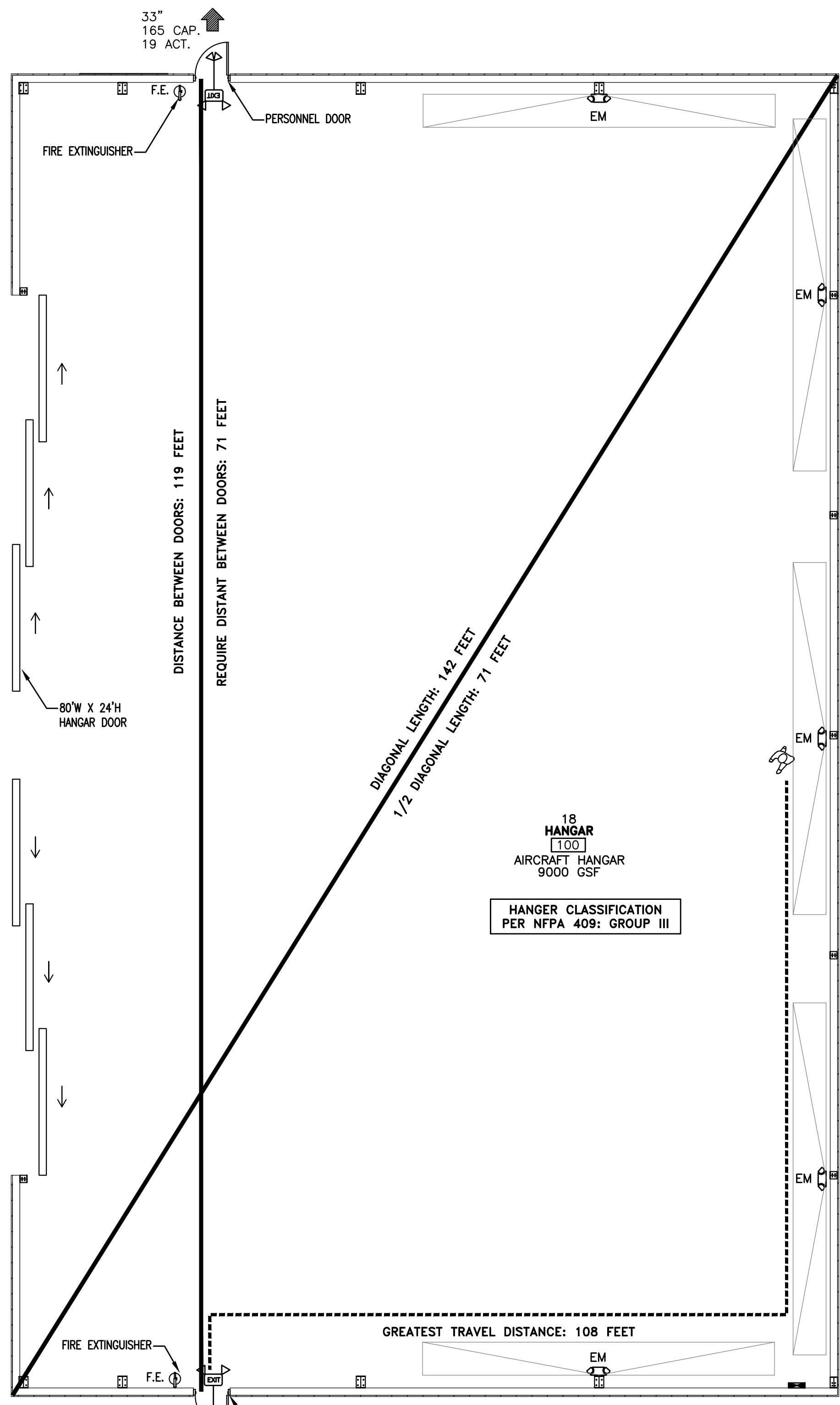
SHEET: **COVER & INDEX TO DRAWINGS**

**CS**

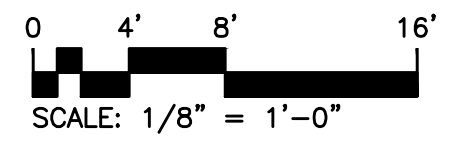




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 Printed By: RLC  
 Plot Date: Sun 29, 2024 - 2:58pm



**LIFE SAFETY / EGRESS PLANS**



OCCUPANCY CLASSIFICATION per TABLE 1004.5						
SPACE NUMBER	CURRENT SPACE USE	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	ROOM AREA (GROSS SF)	CALCULATED EGRESS OCCUPANCY TOTAL	ACTUAL BUILDING OCCUPANT TOTAL
100	HANGAR	AIRCRAFT HANGARS	500 GROSS	9000	18	18
TOTAL OCCUPANT COUNT FOR BUILDING & EGRESS CAPACITY						18
THE EGRESS CAPACITY SHALL BE BASED UPON OCCUPANT LOAD OF 18 PERSONS						
(*) DENOTES OCCUPANT NUMBER ACCOUNTED FOR IN OCCUPANT TOTAL						

**AIRCRAFT HANGAR**

GROSS SQUARE FOOTAGE OF BUILDING 9000 SQ. FT.  
 TYPE OF CONSTRUCTION: II-B  
 BUILDING IS TO BE USED AS AN AIRCRAFT HANGAR (U)

OCCUPANT LOAD FOR CALCULATING EGRESS CAPACITY:  
 SPACE OCCUPANCY BY FUNCTION OF SPACE  
 SEE TABLE ON THIS SHEET FOR INDIVIDUAL SPACE TOTALS  
 TOTAL OCCUPANT LOAD BY AREAS = 18 PERSONS

THIS BUILDING IS NOT PROTECTED BY FIRE SPRINKLERS  
 THERE IS NO FIRE ALARM SYSTEM.  
 GREATEST TRAVEL DISTANCE SHOWN: 108 FEET. (PER 1017)  
 MAXIMUM ALLOWABLE TRAVEL DISTANCE: 300 FEET (PER TABLE 1017.2)  
 THE COMMON PATH OF TRAVEL IS LESS THAN 100 FEET. (PER 1006.2.1)  
 THERE ARE NO DEAD END CORRIDORS OVER 50 FEET. (PER 1020.4)

EXIT WIDTH CALCULATIONS:  
 18 PERSONS \* 0.2"/OCCUPANT = 3.6" REQUIRED, 66" TOTAL PROVIDED. (PER 1005.1)  
 NUMBER OF EXITS REQUIRED: TWO (2) ACCESSIBLE  
 NUMBER OF EXITS PROVIDED: TWO (2) ACCESSIBLE

EGRESS DOORS DO NOT REQUIRE PANIC HARDWARE. (PER 1010.1.10)  
 DOORS DO NOT HAVE DELAYED EGRESS LOCKS (PER 1010.1.9.7)  
 DOORS DO NOT HAVE ELECTROMAGNETIC EGRESS LOCKS (PER 1010.1.9.9)  
 THERE ARE NO EMERGENCY ESCAPE WINDOWS (PER 1030)  
 NO. OF FIRE EXTINGUISHERS PROVIDED:  
 PROVIDE TWO (2) NEW FIRE EXTINGUISHER AT THIS BUILDING  
 FIRE EXTINGUISHER FOR CLASS A FIRE HAZARDS REQUIRE NO GREATER THAN 75 FT OF MAXIMUM TRAVEL DISTANCE IN LOW, ORDINARY AND EXTRA HAZARD OCCUPANCY.

**LEGEND**

SYMBOL	DESCRIPTION
F.E. ⊕	ABC FIRE EXTINGUISHER SUGGESTED LOCATION
---	GREATEST TRAVEL DISTANCE
33"	EXIT WIDTH, 36" - 3 = 33" CLEAR WIDTH.
165 CAP. 22 ACT.	EXIT CAPACITY (NUMBER OF PERSONS) ACTUAL OCCUPANT LOAD FOR EXIT DOOR
EXIT	EXIT SIGN
EM	EMERGENCY LIGHT
36"	AISLE WIDTH WHERE SHOWN
EXIT WITH LIGHTING	EXIT SIGN WITH EMERGENCY LIGHTING
ROOM LABEL	DESCRIPTION
2	OCCUPANT TOTAL
HANGAR	ROOM NAME
100	ROOM NUMBER
AIRCRAFT HANGAR	FUNCTION TYPE
100 SF	SPACE AREA



29 JANUARY 2024

DESIGNED / CHECKED BY:	KJD
DRAWN BY:	BT
PROJECT #:	2023-06-09
DATE:	29 JANUARY 2024

FINAL DRAWING <input type="checkbox"/> FOR REVIEW PURPOSES ONLY	OWNER/TENANT:
PRELIMINARY <input type="checkbox"/> FOR DESIGN DEVELOPMENT ONLY	CONTRACTOR/BUILDER:
FINAL DRAWING <input checked="" type="checkbox"/> FOR CONSTRUCTION	

PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 6.15 AIRPORT RD. ERWIN, NC 28339

SHEET: **BUILDING LIFE SAFETY - EGRESS PLAN**

LS





Drawing File: I:\2023\Customers\Hanger 2023-06-08\DWG\Harnett-Airport-Hangar-Foundation-18 Dec 2023 RicLaw  
 Printed By: RicLaw  
 Printed Date: Sun Dec 29, 2023 11:21am

DOOR SCHEDULE													REMARKS				
DOOR NO	DOOR SIZE		DOOR	FRAME	HARDWARE										REMARKS		
	WIDTH	HEIGHT			ENTRANCE LOCK	STOREROOM LOCK	PASSAGE SET	PRIVACY SET	PUSH/PULL	PANIC SET	CLOSER	STOP	THRESHOLD	KICK PLATES		WEATHERSTRIPPING	AIR CURTAIN
D01	80'-0"	X 24'-0"	SEE WELLSBILT - HANGAR DOOR DRAWING FOR DETAILS														6 PANEL BIPARTING ROLLING HANGAR DOOR
D02	3'-0"	X 7'-0"	A M P 1 M P							X	X	X					EXTERIOR HINGED SINGLE DOOR - HANGAR
D03	3'-0"	X 7'-0"	A M P 1 M P							X	X	X					EXTERIOR HINGED SINGLE DOOR - HANGAR

**NOTES:**

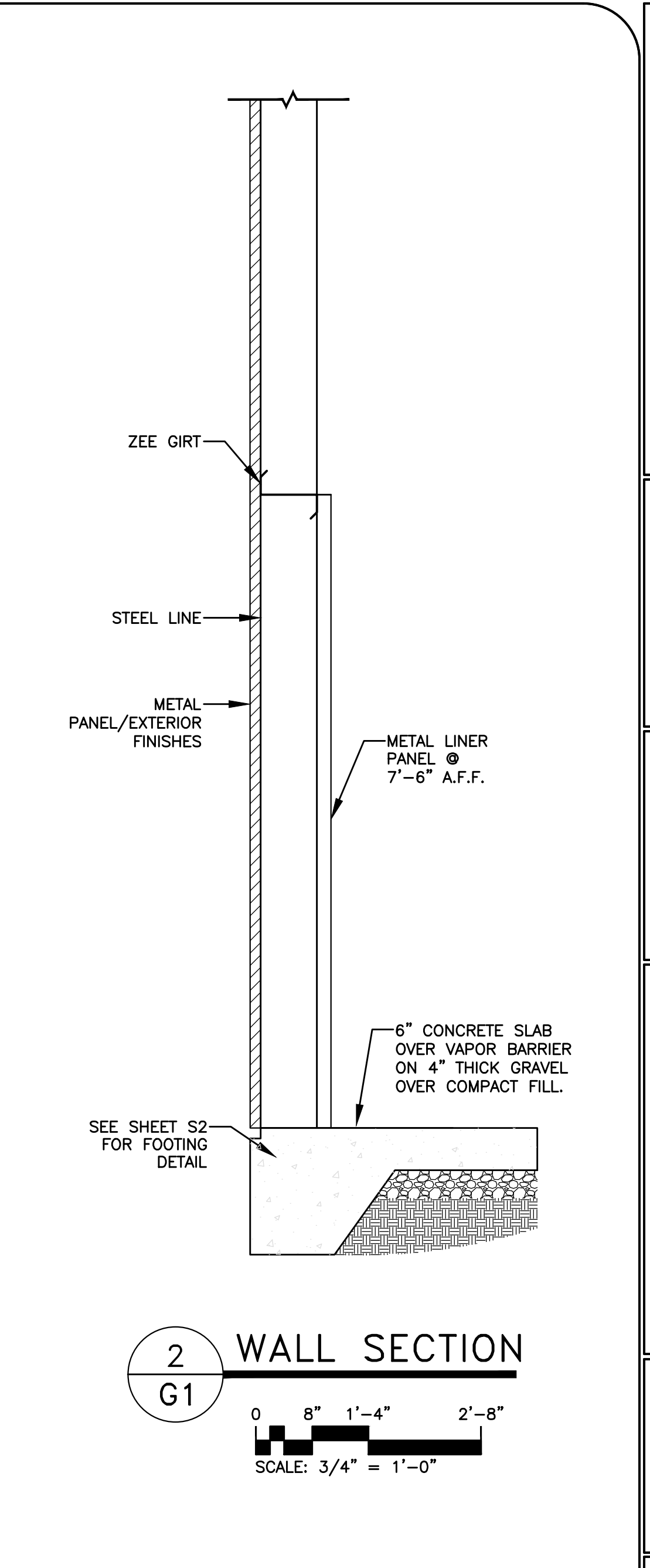
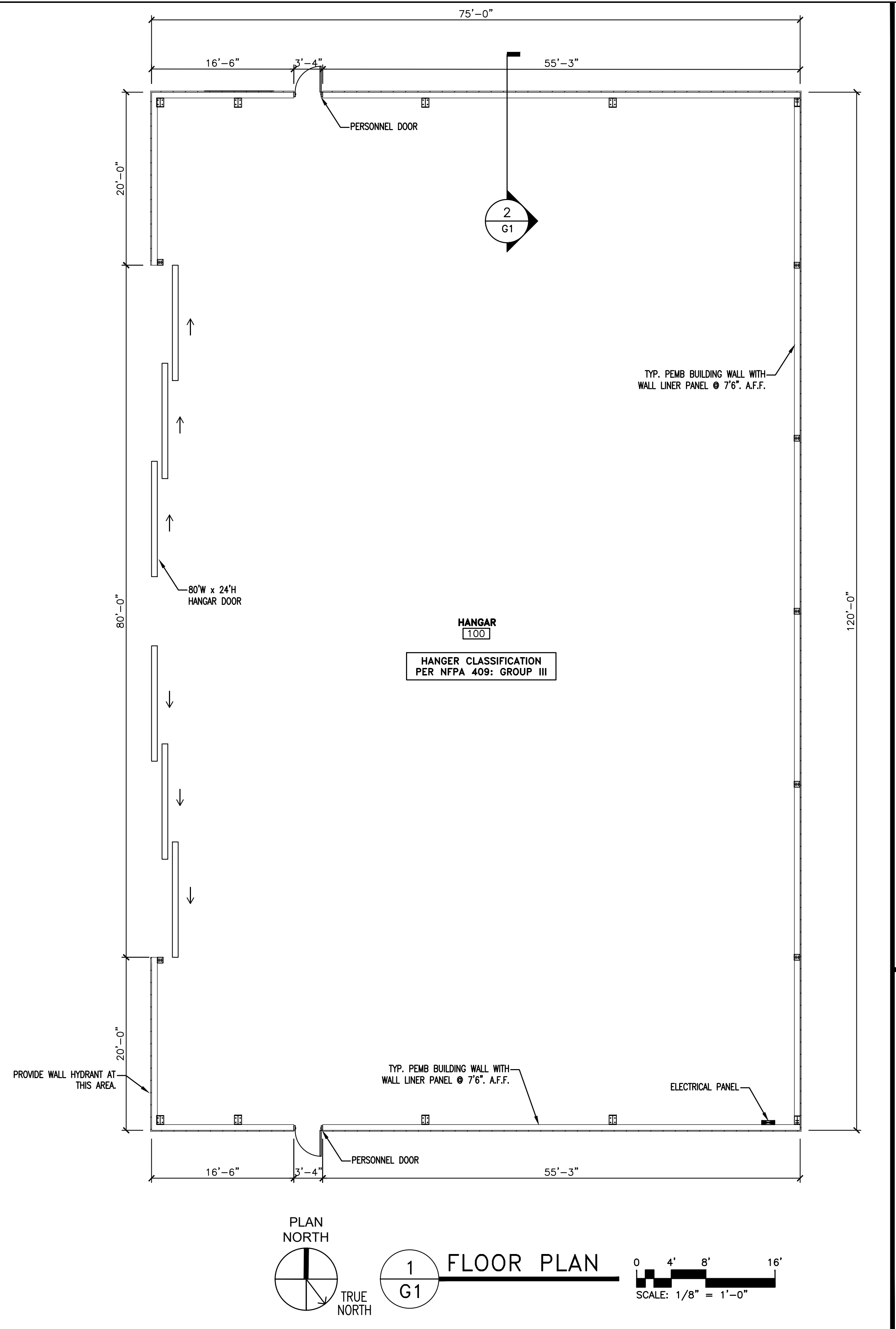
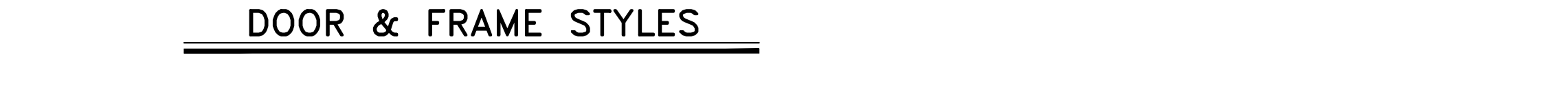
- APPLY 2 COATS OF SEMI-GLOSS TO ALL WOOD DOORS.
- ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OF EFFORT. ALL HARDWARE MUST BE DIRECT ACTING REQUIRING NOT MORE THAN ONE OPERATION.
- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR PER ICC/ANSI A117.1-2009 SECTIONS 404.2.6& 404.2.7
- G.C. TO REVIEW ALL HARDWARE SETS WITH OWNER BEFORE INSTALLATION
- PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES

**PASSAGE SET:** (CLOSET & HALL) PASSAGE LOCKSETS KEEP DOORS FIRMLY CLOSED, BUT DO NOT ACTUALLY LOCK. BOTH LEVERS ALWAYS TURN FREE WITH NO LOCK CYLINDER OR PROVISION FOR A KEY.

**PRIVACY SET:** (RESTROOM) PRIVACY LOCKSETS ARE LOCKED WITH AN INSIDE PUSH-BUTTON. TURNING THE INSIDE KNOB OR LEVER RELEASES THE LOCK. A SMALL SCREWDRIVER CAN BE USED AS AN EMERGENCY KEY, FROM THE OUTSIDE, IF NECESSARY.

**ENTRANCE LOCK:** (ENTRY) ENTRANCE LOCKED BY PUSHING AND TURNING A BUTTON AND UNLOCKED BY THE KEY UNTIL THE INSIDE BUTTON IS MANUALLY UNLOCKED. THEY ARE ALSO AVAILABLE WITH PUSHBUTTON LOCKING, IN WHICH PUSHING THE BUTTON LOCKS THE OUTSIDE KNOB OR LEVER UNTIL IT IS UNLOCKED BY KEY OR BY TURNING THE INSIDE KNOB OR LEVER. THE INSIDE KNOB OR LEVER IS ALWAYS FREE FOR IMMEDIATE EXIT.

DOOR SCHEDULE LEGEND			
H	HEIGHT	HM	HOLLOW METAL
W	WIDE	P	PAINT
ALUM	ALUMINUM	S	STAIN
WD	WOOD-SOLID CORE	M	METAL
T	THICKNESS	WI	WROUGHT IRON
		VA/B	VERIFY ANODIZED OR BRONZE



**JE JENKINS**  
 CONSULTING ENGINEERS, PA  
 OFFICE IN EUREKA SPRINGS, NORTH CAROLINA  
 CORPORATION NUMBER C-3070 - www.jjenkins.com  
 PATENTVILLE, NC 28131-1002  
 910.822.1724

**PROFESSIONAL SEAL**  
 NORTH CAROLINA  
 SEAL 42009  
 J. W. JENKINS  
 29 JANUARY 2024

DESIGNED / CHECKED BY: **KJD**  
 DRAWN BY: **BT**  
 PROJECT #: **2023-06-09**  
 DATE: **29 JANUARY 2024**

FINAL DRAWING  FOR REVIEW PURPOSES ONLY  
 PRELIMINARY  FOR DESIGN DEVELOPMENT ONLY  
 FINAL DRAWING  FOR CONSTRUCTION

OWNER/TENANT: \_\_\_\_\_  
 CONTRACTOR/BUILDER: \_\_\_\_\_

PROJECT: **HARNETT COUNTY AIRPORT HANGAR**  
 6.15 AIRPORT RD. ERWIN, NC 28339

SHEET: **BUILDING FLOOR PLAN**

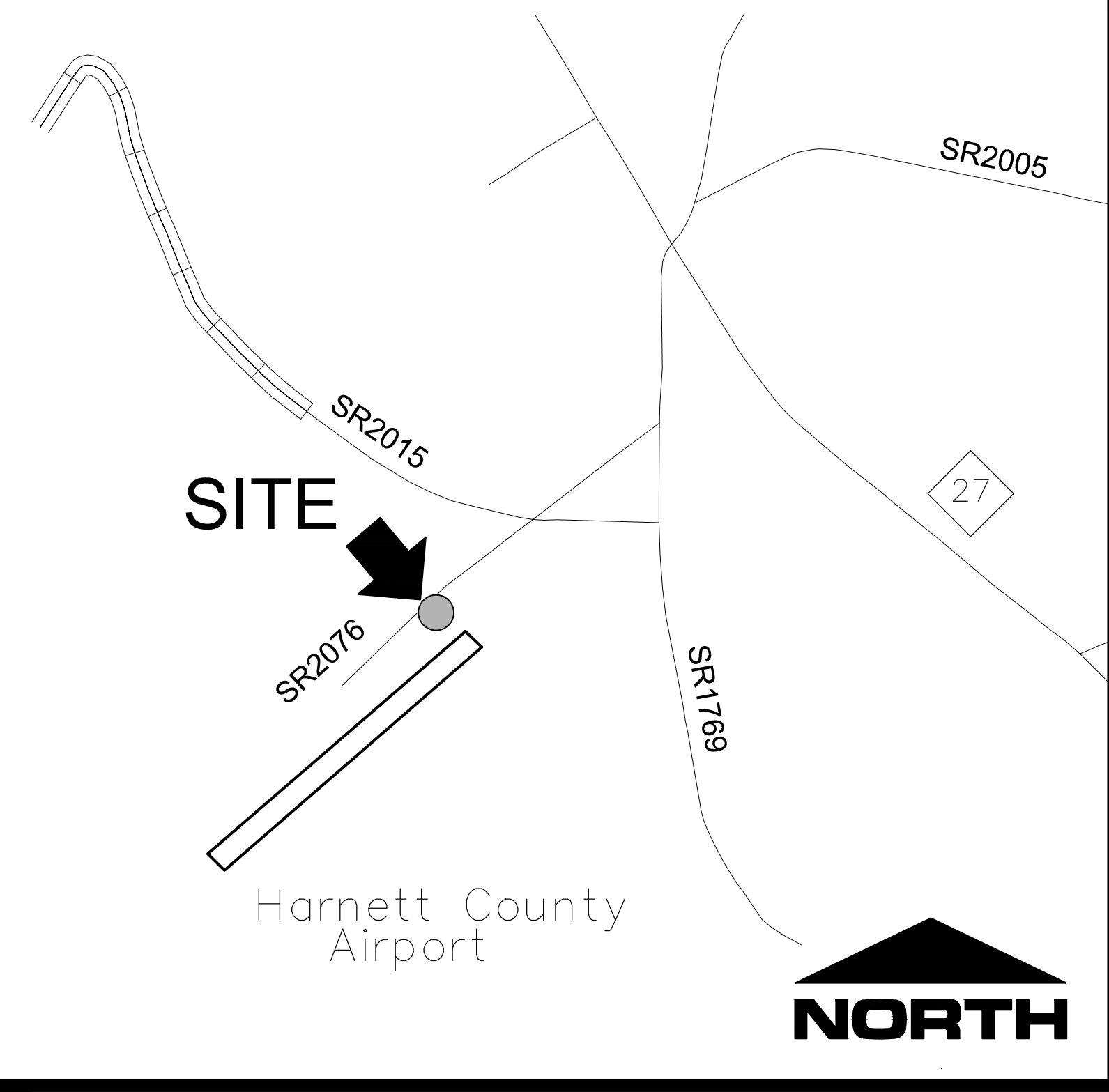
**G1**



# AIRPORT ROAD HANGAR SITE DEVELOPMENT PLANS

NEILL'S CREEK TOWNSHIP  
 NEAR ERWIN, NORTH CAROLINA  
 HARNETT COUNTY

AIRPORT ROAD - SR 2076  
 70' PUBLIC ROW



**VICINITY MAP**  
 NOT TO SCALE

## EXISTING UTILITY OWNER

### WATER

HARNETT REGIONAL WATER  
 700 McKinney Parkway  
 Lillington, North Carolina 27546  
 910-893-7575  
 Contact: Katherine Moore



Know what's below.  
 Call before you dig.

## INDEX OF DRAWINGS

- G1.0 - PROJECT NOTES
- C1.0 - EXISTING CONDITIONS
- C2.0 - SITE PLAN
- C3.0 - GRADING AND EROSION CONTROL PLAN
- C4.0 - UTILITY PLAN
- C5.0 - SITE & EC DETAILS
- C5.1 - WATER DETAILS

**CIVIL ENGINEER**  
 4D SITE SOLUTIONS, INC.  
 409 Chicago Drive - Suite 112  
 Fayetteville, North Carolina 28306  
 910-426-6777  
 Contact: Scott Brown, PE  
 email: sbrown@4dsitesolutions.com

**OWNER/DEVELOPER**  
 BRIAN RAYNOR  
 2031 Middle Road  
 Fayetteville, North Carolina 27312  
 910-824-1238  
 Contact: Brian Raynor  
 email: braynor@highlandpaving.com

**SURVEYOR**  
 REGIONAL LAND SURVEYORS, INC  
 8642 West Market Street, Suite 100  
 Greensboro, North Carolina 27409  
 910-336-665-8155  
 Contact: David Clark, PLS  
 email: aclark@regionallandsurveyors.com

REVISIONS

PROJECT NAME

**AIRPORT ROAD HANGAR**

PIN: 0579-82-7353.000  
 AIRPORT ROAD  
 NEILL'S CREEK TOWNSHIP  
 NEAR ERWIN  
 HARNETT COUNTY  
 NORTH CAROLINA

CLIENT

**BRIAN RAYNOR**

2031 Middle Road  
 Fayetteville, NC 28312  
 Phone: (910) 824-1238  
 Fax: (910) 678-9988

PROJECT INFORMATION

DESIGNED BY:	SCOTT
DRAWN BY:	SCOTT
CHECKED BY:	CHRIS
PROJECT NUMBER:	1942

DRAWING SCALE

SEE SHEETS

DATE RELEASED

OCTOBER 16, 2023

THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

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REVISIONS

PROJECT NAME

**AIRPORT ROAD HANGAR**

**GRADING AND EROSION CONTROL PLAN**

CLIENT

**BRIAN RAYNOR**

2031 Middle Road  
 Fayetteville, NC 28312  
 Phone: (910) 824-1238  
 Fax: (910) 678-9988

PROJECT INFORMATION

DESIGNED BY:	SCOTT
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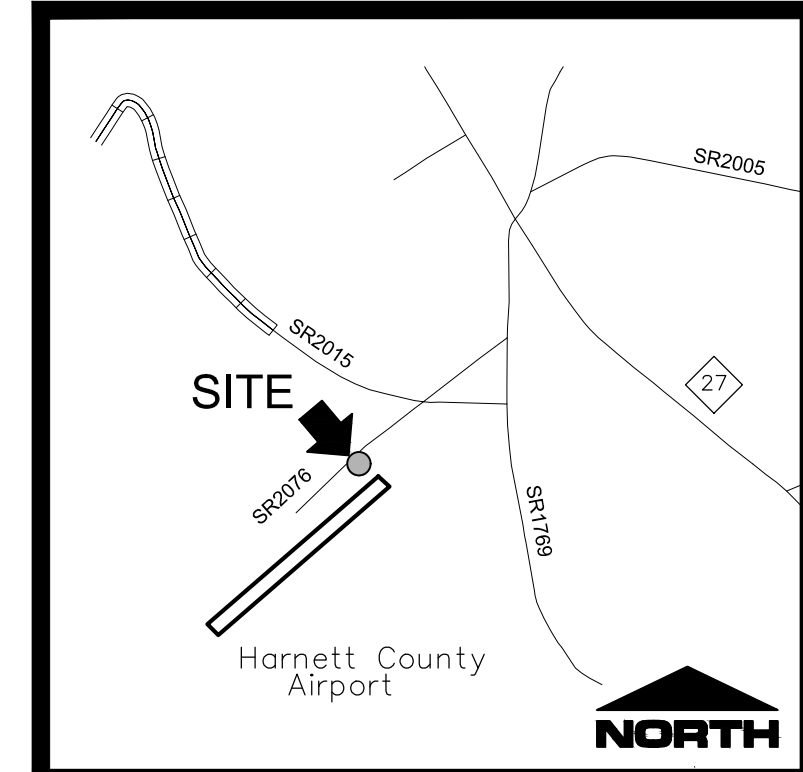
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DATE RELEASED

OCTOBER 16, 2023

SHEET NUMBER

**C-3.0**



**VICINITY MAP  
 NOT TO SCALE**

PID 110579 0153  
 REID 0579-74-2525.000  
 THE MUELLER-TOWNSEND  
 LLC  
 DB 2456 PG 85

PROPOSED ACQUISITION AREA  
 FROM MUELLER-TOWNSEND  
 97.26 ACRES

GROUND STABILIZATION CHART

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)

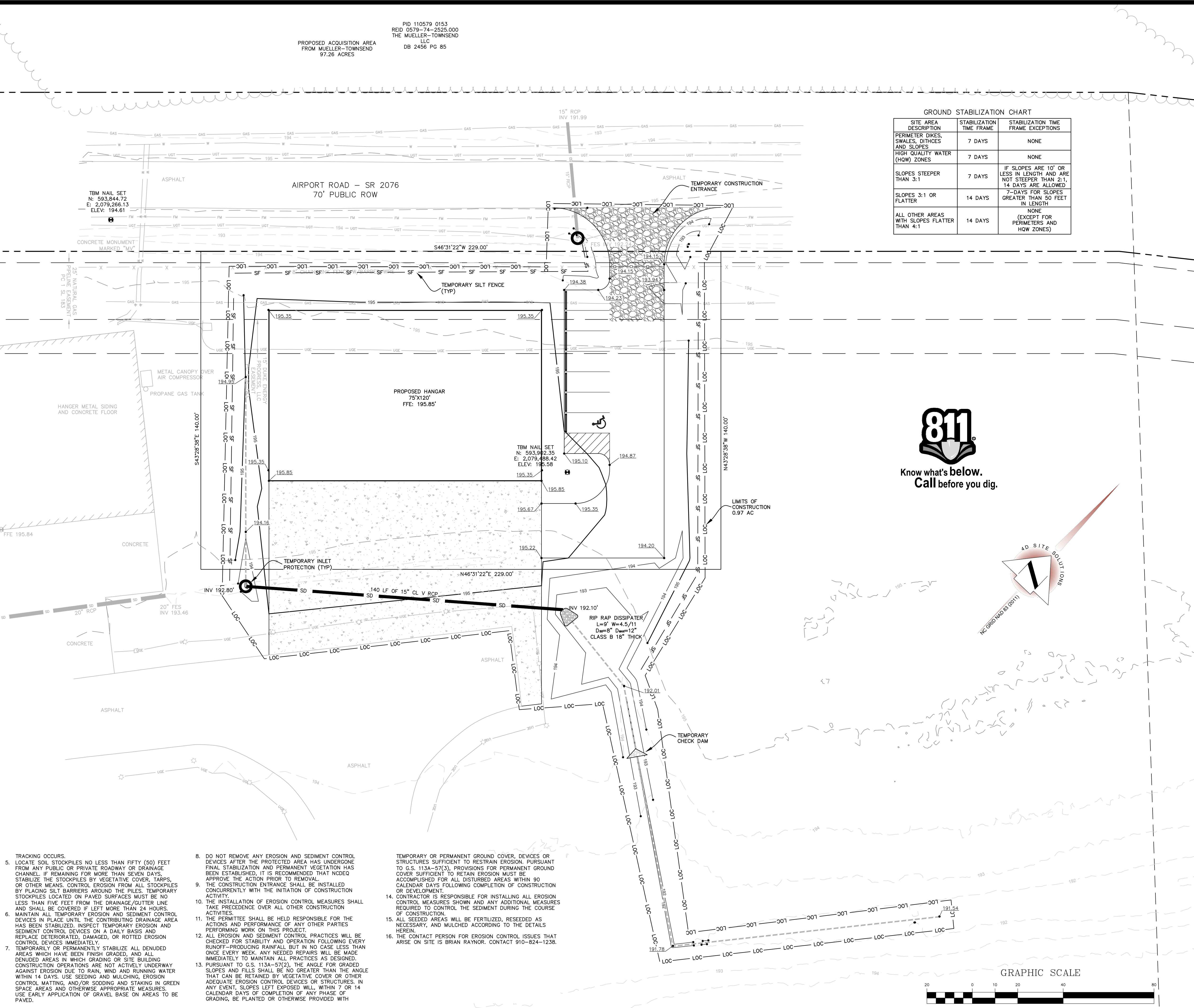
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- ERS- EXISTING RAILROAD SPIKE
  - EIR- EXISTING IRON ROD
  - SIR- SET IRON ROD
  - SIP- SET IRON PIPE
  - COMPUTED POINT
  - N/F - NOW OR FORMERLY
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  - MAJOR CONTOUR
  - MINOR CONTOUR
  - SPOT ELEVATION
  - BENCHMARK
  - UTILITY POLE
  - GUY WIRE
  - LIGHT POLE

GRADING NOTES

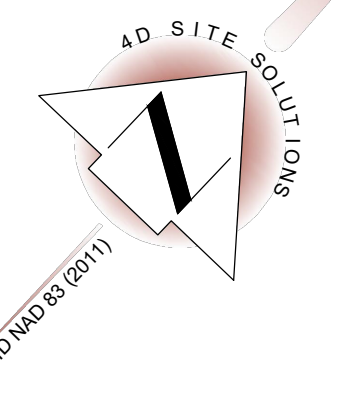
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR. ALL SPOT ELEVATIONS ARE TO THE FINISHED GRADE OF THE CURB, UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS AND PEDESTRIAN WALKING SURFACES SHALL HAVE A CROSS SLOPE NO STEEPER THAN 2% AND LONGITUDINAL SLOPE NO STEEPER THAN 5%.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LAND DISTURBING ACTIVITIES AND ENSURE COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES AND CLEAR ANY DEBRIS LEAVING THE SITE ON NEIGHBORING ROADS.
- EXISTING GROUND UPON WHICH FILL OR BASE IS TO BE PLACED SHALL BE CLEARED OF WEEDS, DEBRIS, TOPSOIL, AND ALL OTHER DELETERIOUS MATERIALS; NO FILL SHALL BE PLACED UNTIL PREPARATION OF THE EXISTING GROUND HAS BEEN COMPLETED.
- PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR AND THE OWNER TO PROTECT ADJACENT PROPERTY, THE PUBLIC AND UTILITIES DURING GRADING OPERATIONS. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES, WHETHER SHOWN OR NOT ON THE PLAN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES OR STRUCTURES ABOVE AND BELOW GROUND, SHOWN OR NOT SHOWN ON THESE PLANS. THEY WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ANY UTILITIES OR STRUCTURES CAUSED BY HIS OPERATION.
- ALL CUT AND FILL SLOPES SHOULD BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE CONTRACTOR TO DETERMINE IF ANY SLOPE STABILITY PROBLEMS EXIST. IF IT IS DETERMINED THAT THERE IS A SLOPE STABILITY PROBLEM THE ENGINEER OF RECORD SHOULD BE NOTIFIED.
- STOCKPILE AREAS THAT WILL EXCEED 10' IN HEIGHT SHOULD BE GRADED WITH 3:1 SLOPES AND SURROUNDED BY SILT FENCE.
- APPROVED COPIES OF THE GRADING AND EROSION CONTROL PLANS SHALL BE ON THE PERMITTED SITE WHILE WORK IS IN PROGRESS.
- ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN IN A CONDITION SUCH THAT THEY CAN TRANSPORT THE NATURAL DRAINAGE UNTIL FACILITIES TO HANDLE THE STORM WATER ARE CONSTRUCTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- ANY DEVIATION FROM THE APPROVED GRADING PLAN SHOULD BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO IMPLEMENTATION OF THE CHANGE.
- ALL SLOPES 3:1 OR STEEPER THAT EXCEED TEN FEET OR MORE SHALL BE LINED WITH NORTH AMERICAN GREEN S75 TEMPORARY EROSION CONTROL BLANKET OR EQUAL SUBSTITUTE.
- STORM PIPE DISTANCES SHOWN ARE TO THE CENTER OF THE BOX FOR ALL STRUCTURES UNLESS OTHERWISE NOTED.

EROSION CONTROL NOTES

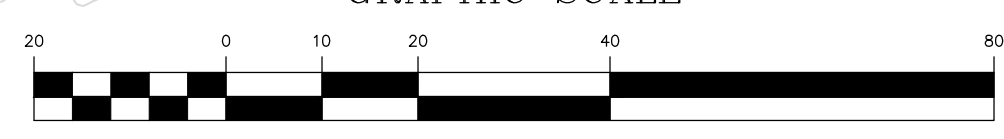
- ALL INLET/OUTLET PROTECTION WILL BE CHECKED FOR MAINTENANCE AND FAILURE EACH ACTIVE DAY ON SITE. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAP AND INLET PROTECTION DEVICES WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5' DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NEEDED TO MAINTAIN A PROPER BARRIER.
- TEMPORARY EROSION CONTROL FACILITIES AND/OR PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF AND EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE OR AT THE EARLIEST POSSIBLE POINT DURING CONSTRUCTION.
- TEMPORARY & PERMANENT EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PER THE DETAILS HEREIN, OR SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS.



Know what's below.  
 Call before you dig.



GRAPHIC SCALE



( IN FEET )  
 1 inch = 20 ft.

**THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED**

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 1942.dwg, 10/16/2023 8:48:59 AM



REVISIONS

PROJECT NAME

**AIRPORT ROAD HANGAR**

UTILITY PLAN

PIN:

CLIENT

**BRIAN RAYNOR**

2031 Middle Road  
 Fayetteville, NC 28312  
 Phone: (910) 824-1238  
 Fax: (910) 678-9988

PROJECT INFORMATION

DESIGNED BY:	SCOTT
DRAWN BY:	SCOTT
CHECKED BY:	CHRIS
PROJECT NUMBER:	1942

DRAWING SCALE

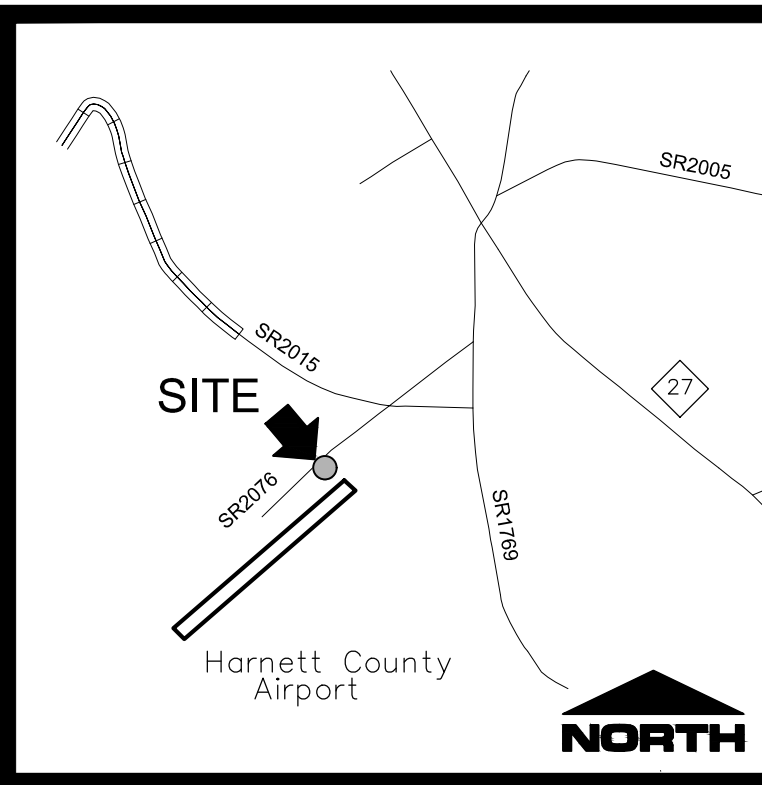
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DATE RELEASED

OCTOBER 16, 2023

SHEET NUMBER

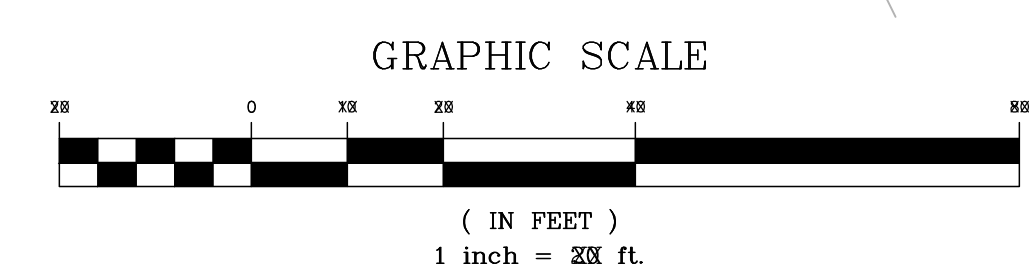
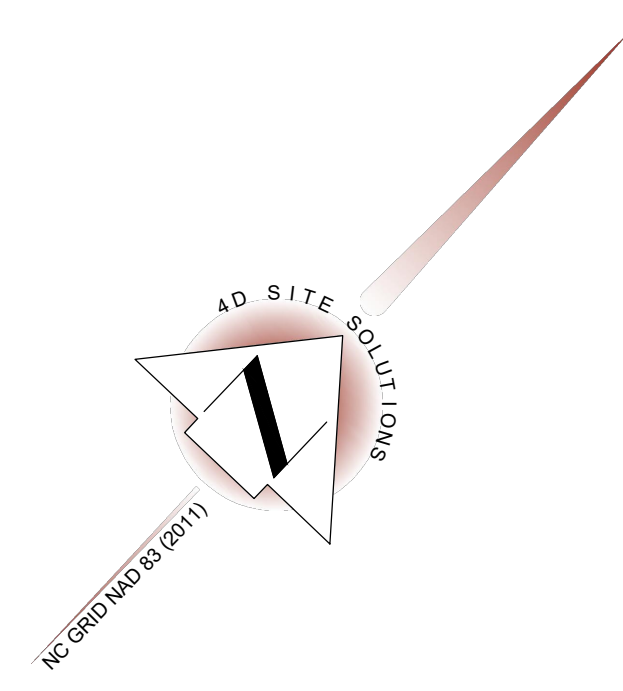
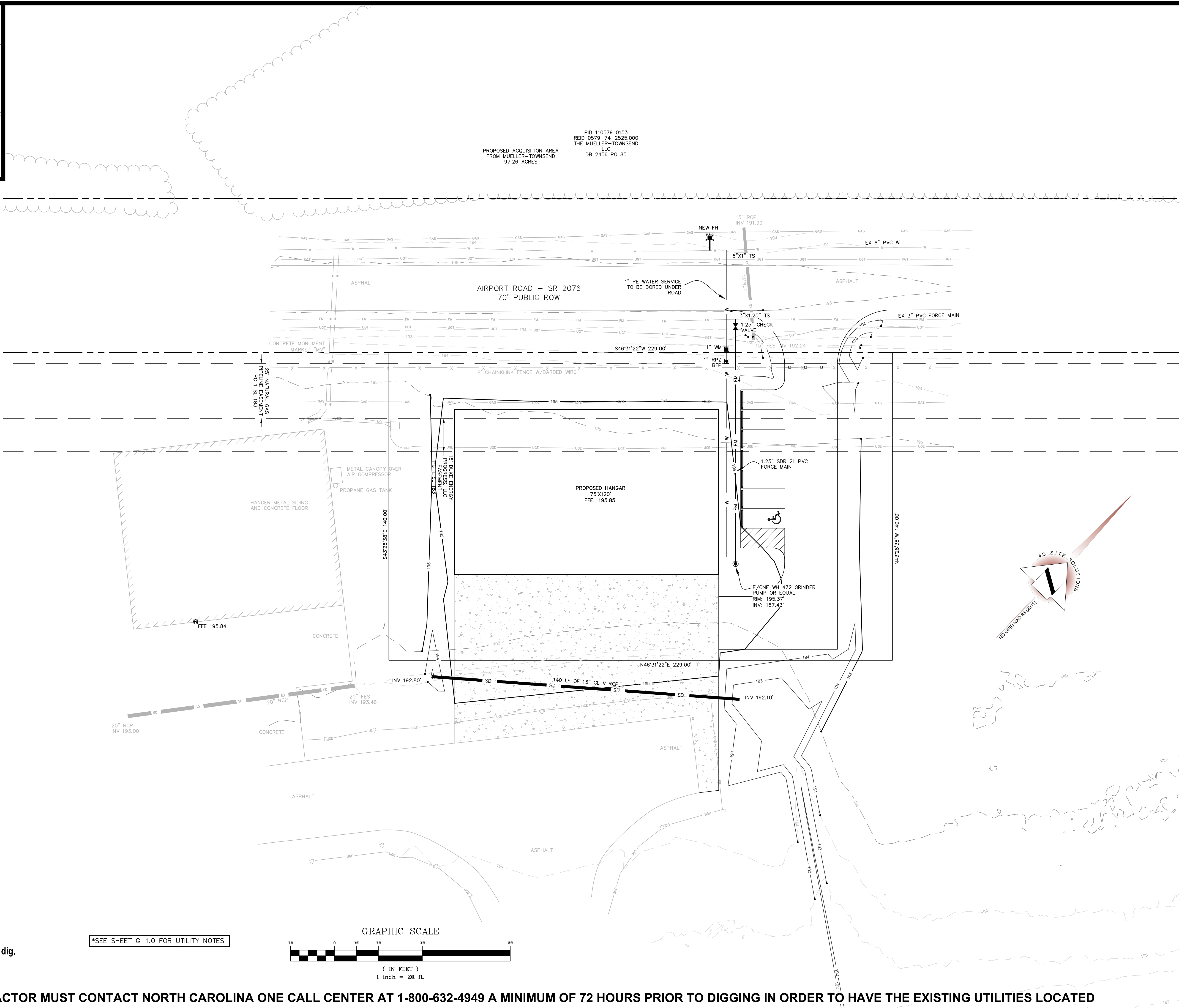
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VICINITY MAP  
NOT TO SCALE

PID 110579 0153  
 REID 0579-74-2525.000  
 THE MUELLER-TOWNSEND  
 LLC  
 DB 2456 PG 85  
 PROPOSED ACQUISITION AREA  
 FROM MUELLER-TOWNSEND  
 97.26 ACRES

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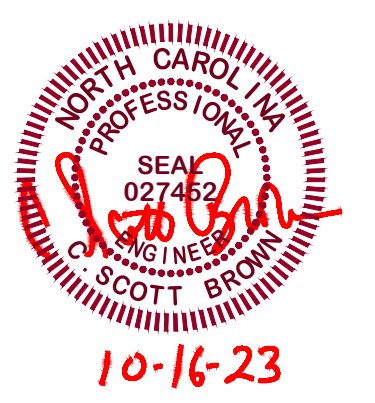


\*SEE SHEET G-1.0 FOR UTILITY NOTES



THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED

Brian Raynor 1942, Scott Brown 027462, Chris Brown 027462, 10/16/2023 8:46:19 AM



REVISIONS

PROJECT NAME

**AIRPORT ROAD HANGAR**

**SITE & EROSION CONTROL DETAILS**

CLIENT

**BRIAN RAYNOR**

2031 Middle Road  
 Fayetteville, NC 28312  
 Phone: (910) 824-1238  
 Fax: (910) 678-9988

PROJECT INFORMATION

DESIGNED BY:	SCOTT
DRAWN BY:	SCOTT
CHECKED BY:	CHRIS
PROJECT NUMBER:	1942

DRAWING SCALE

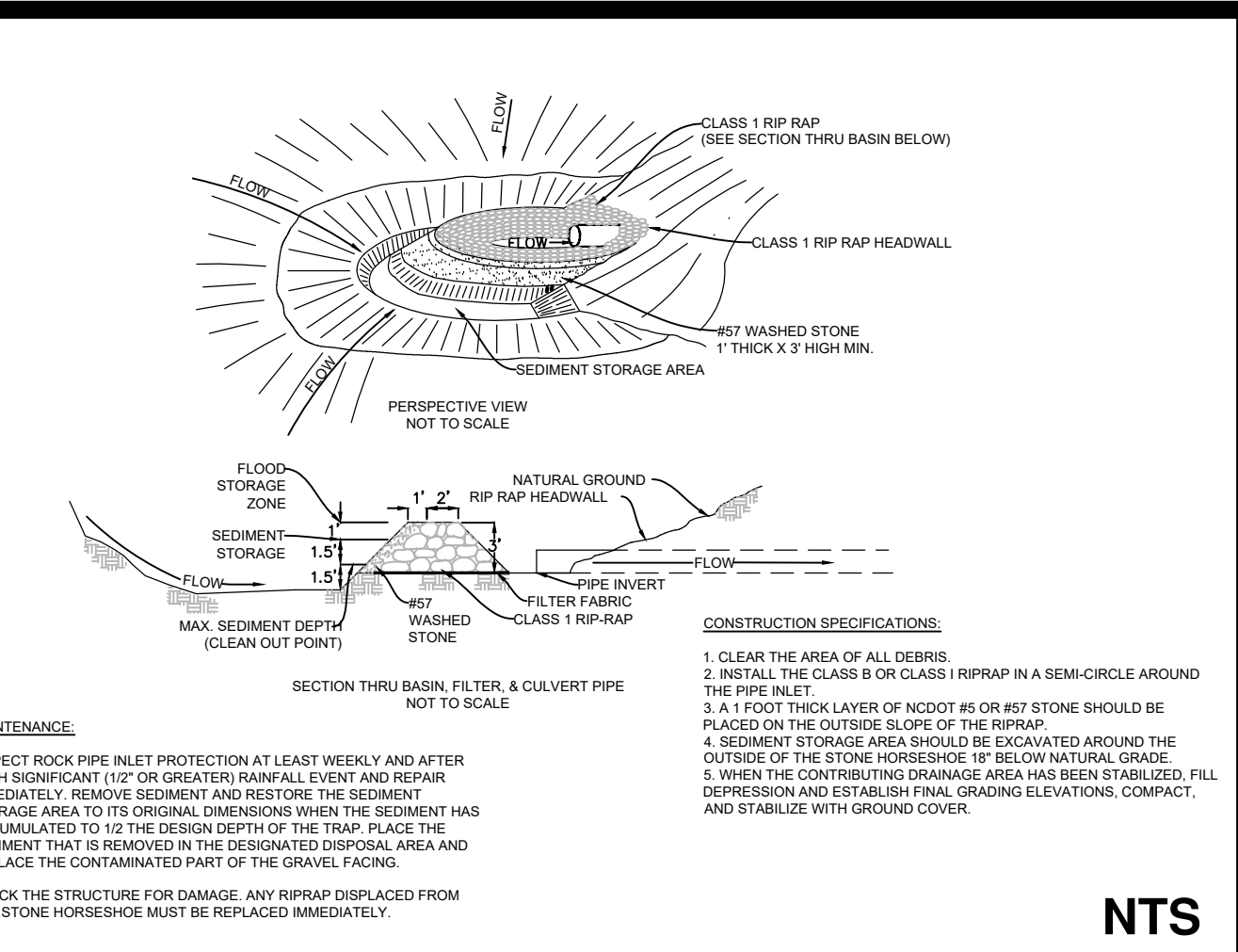
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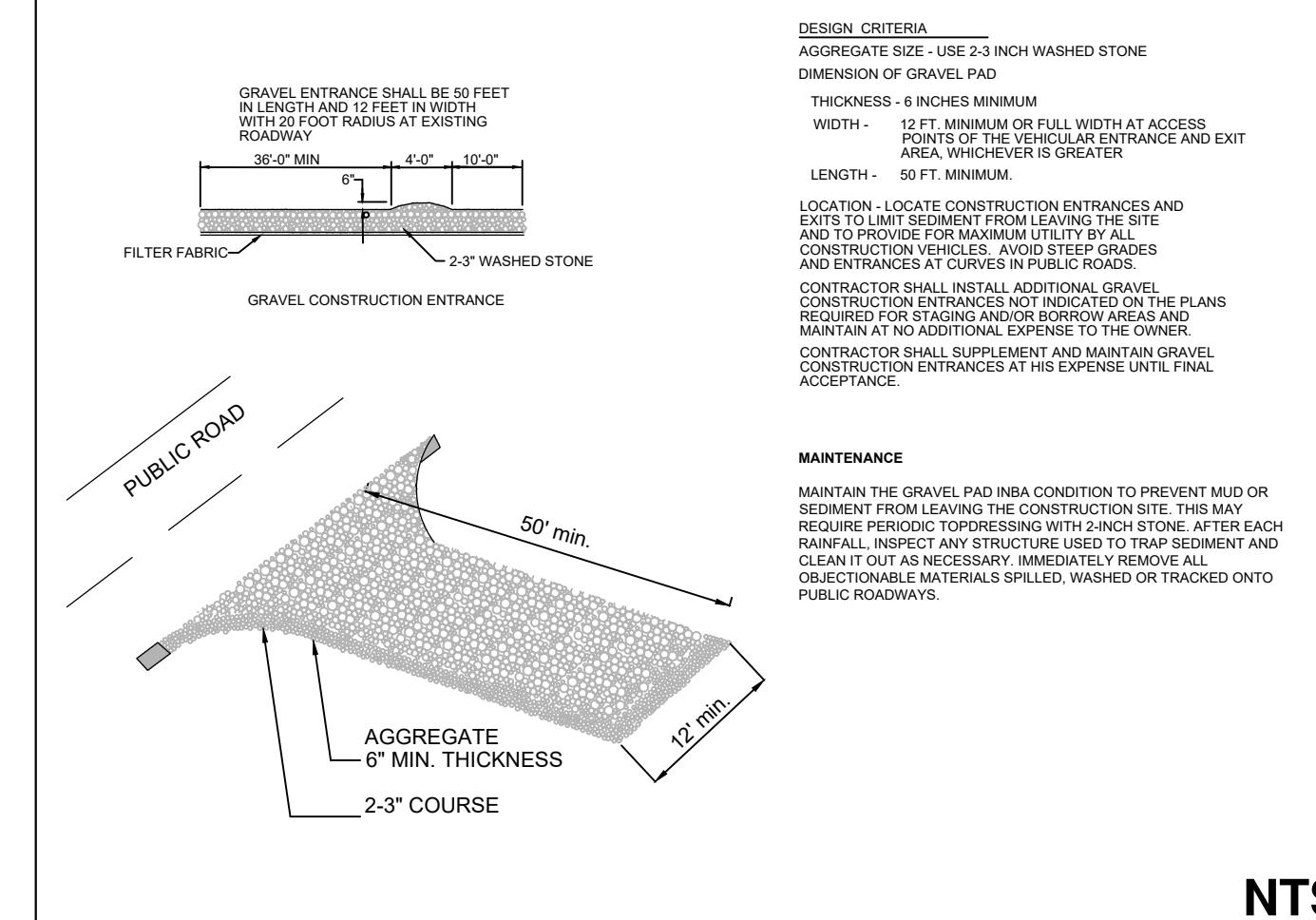
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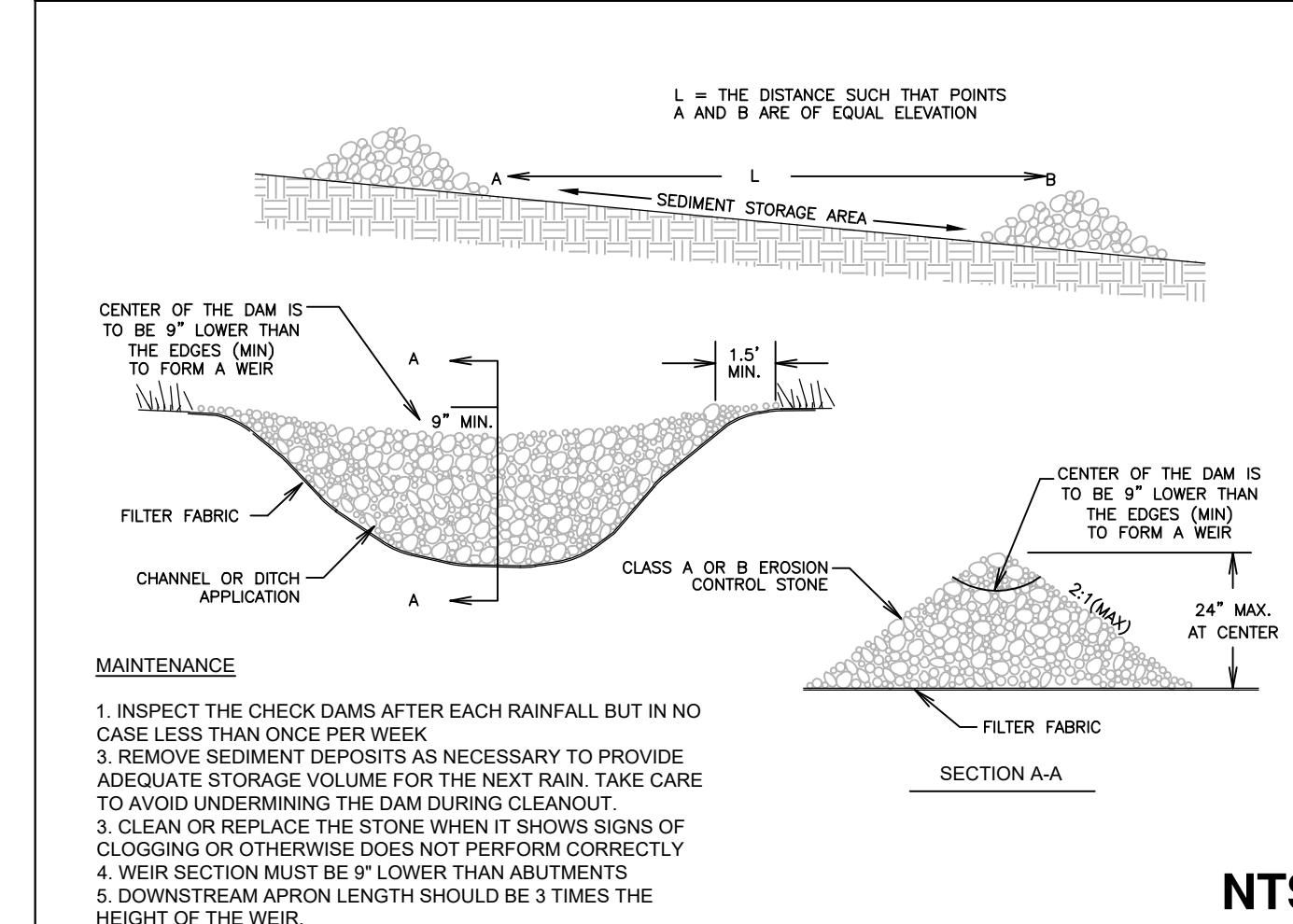
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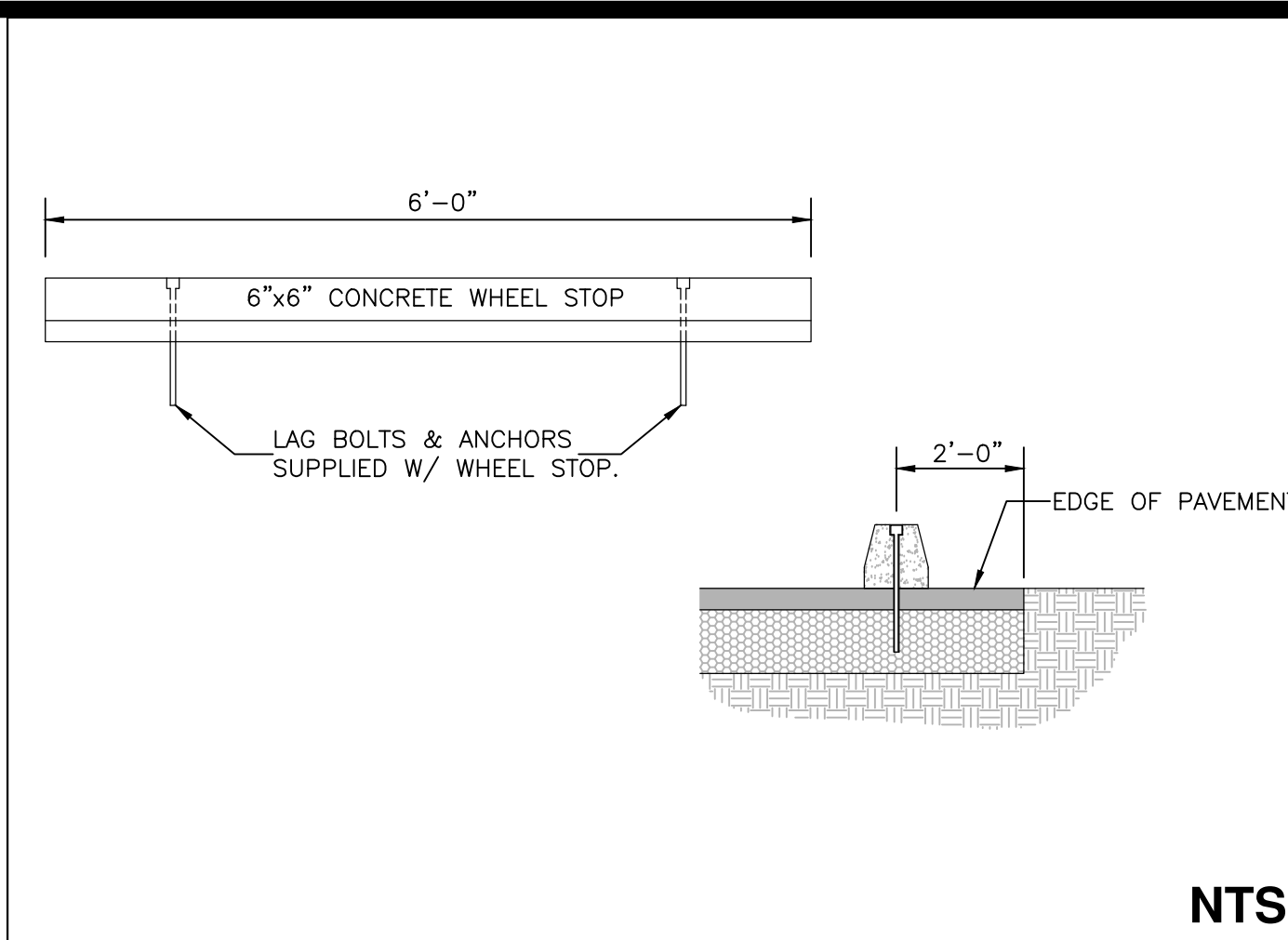
**4 ROCK PIPE INLET PROTECTION**



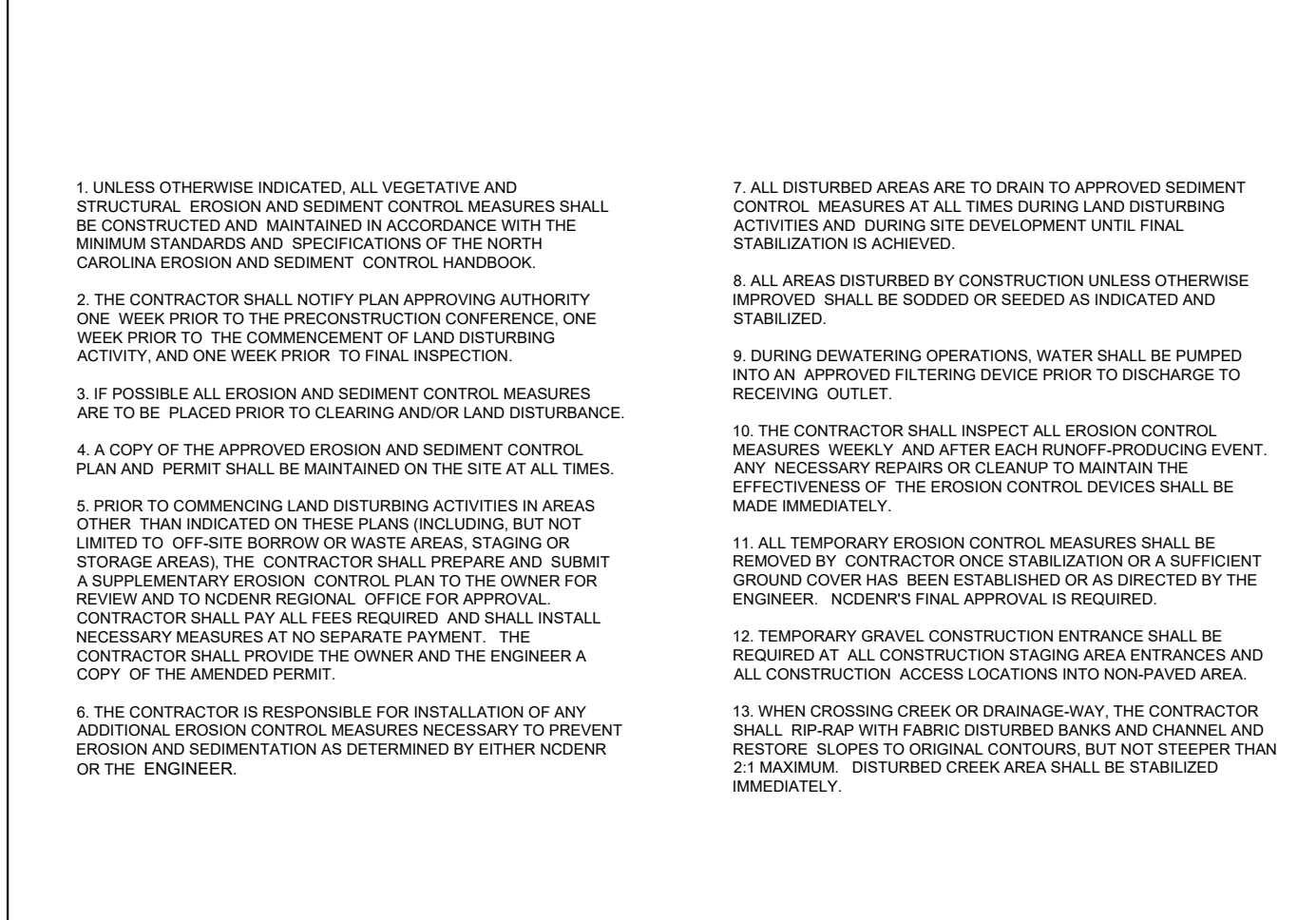
**7 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**



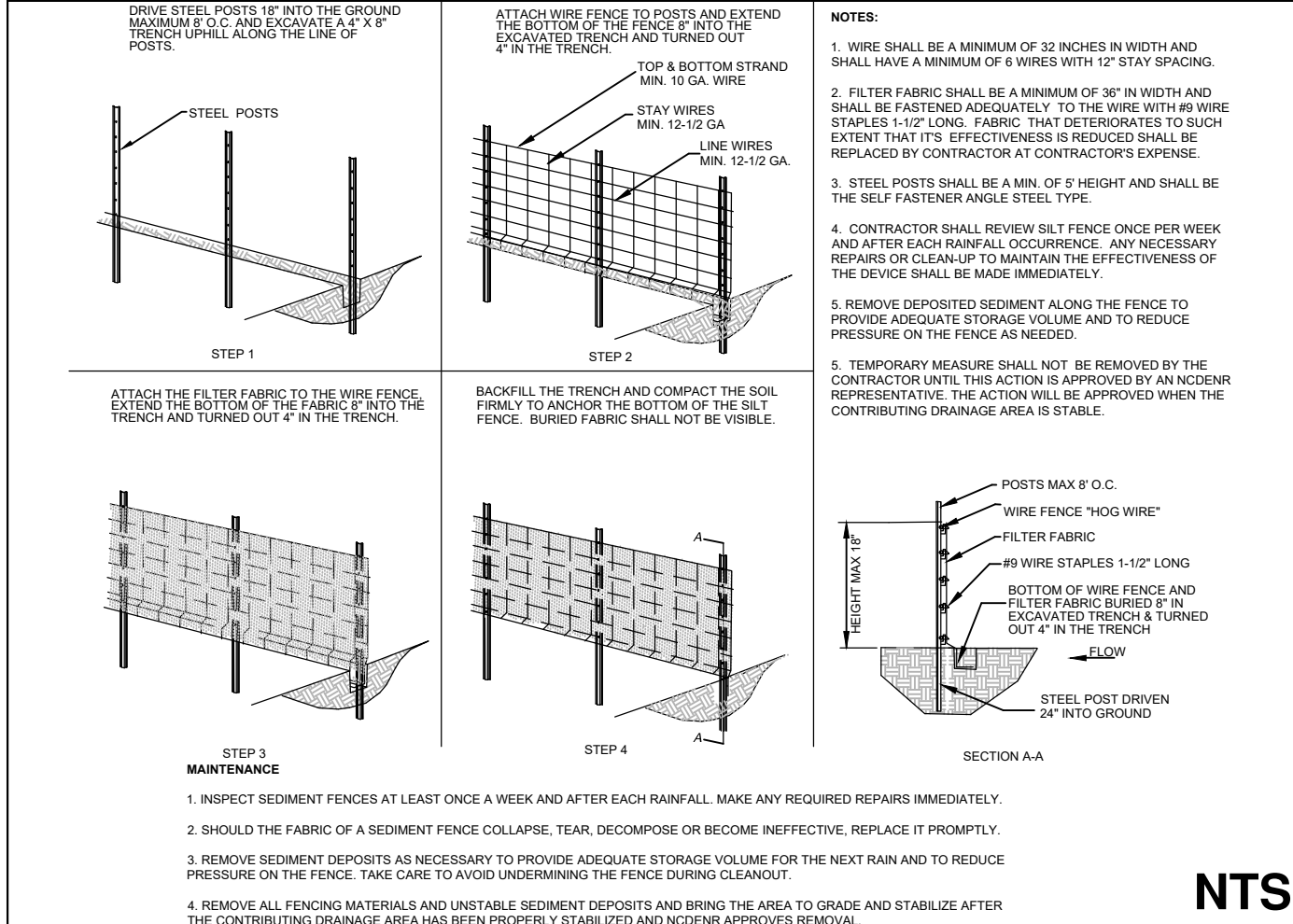
**11 CHECK DAM WITH WEIR**



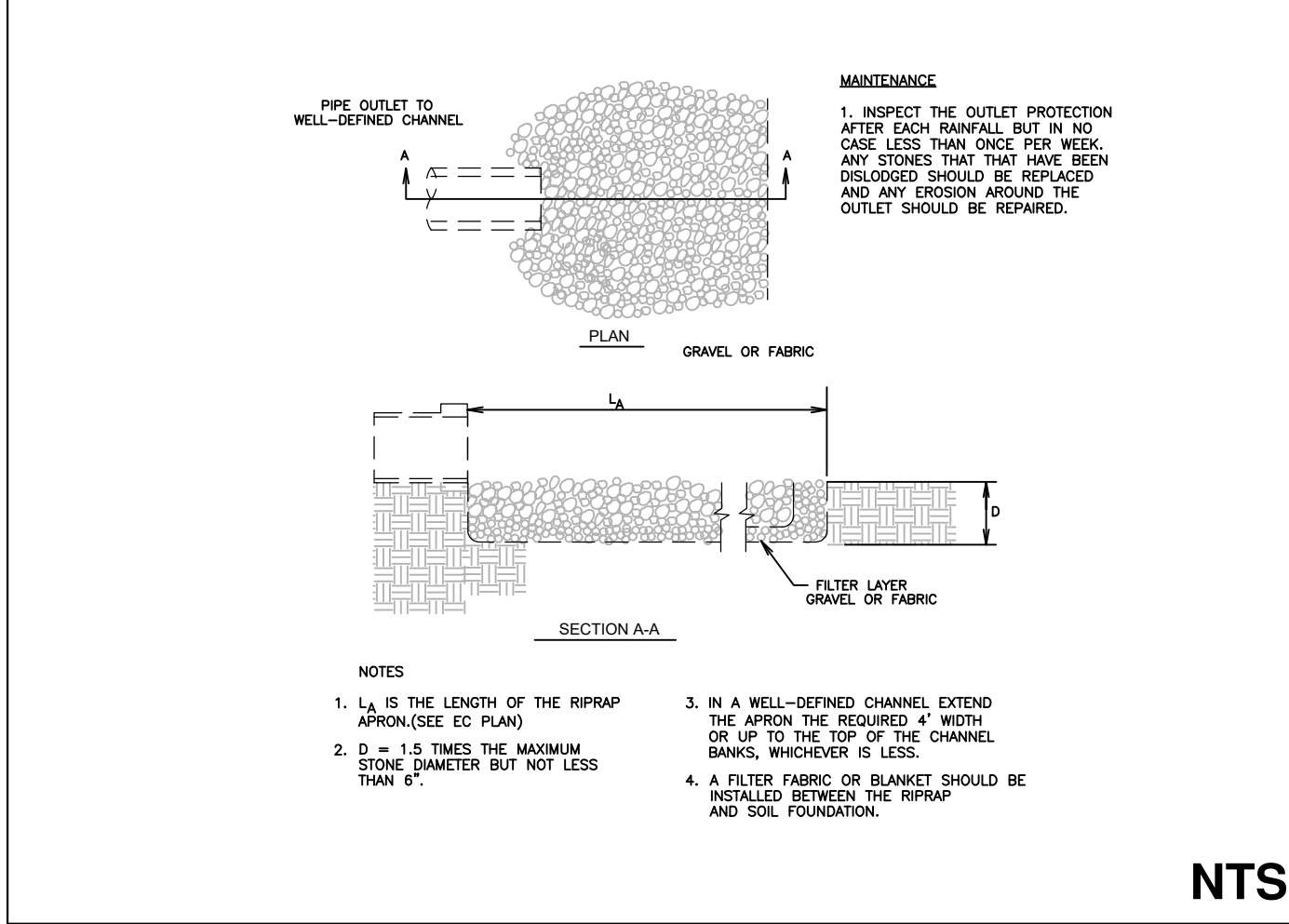
**3 CONCRETE WHEEL STOP**



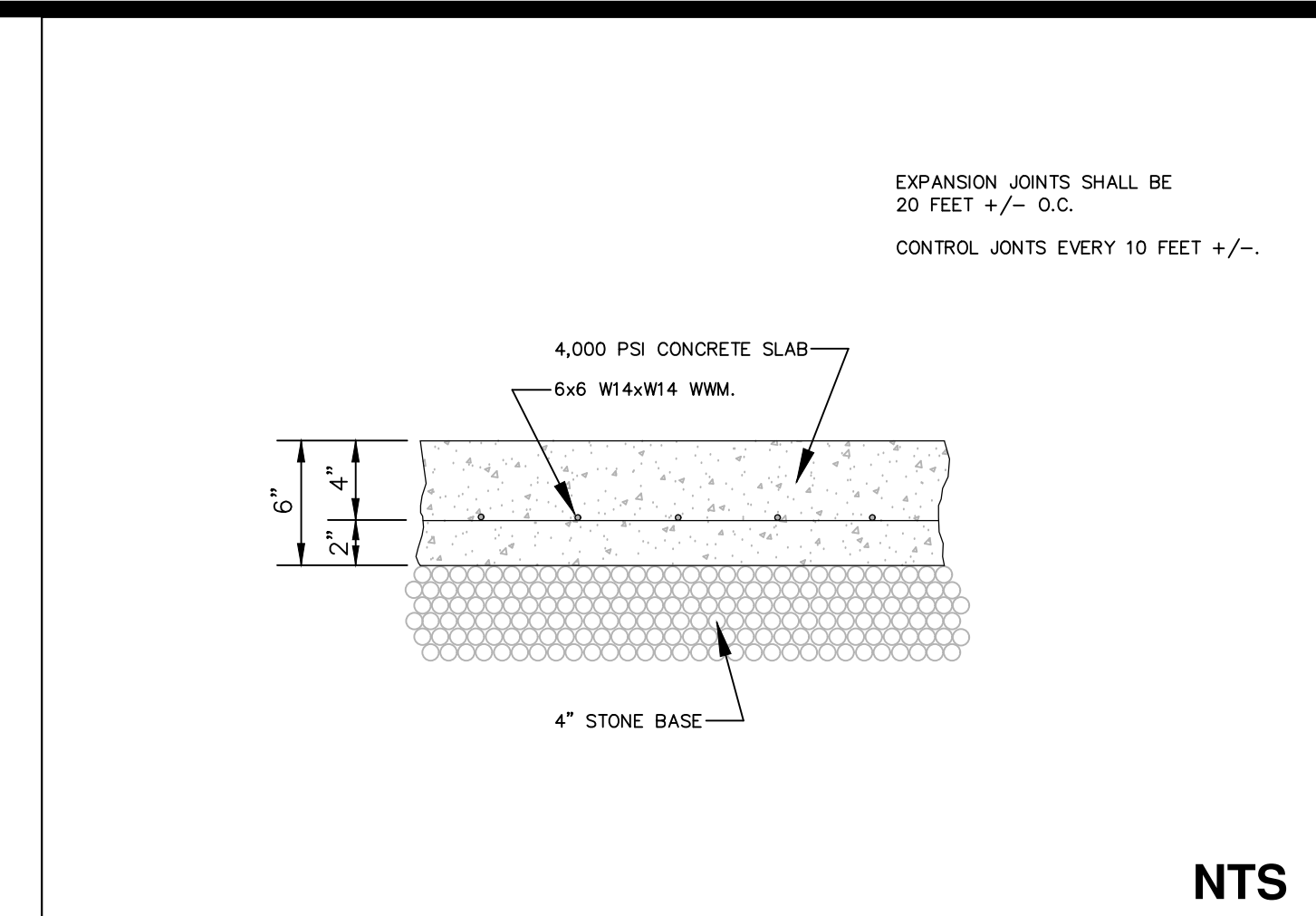
**6 GENERAL EROSION AND SEDIMENT CONTROL NOTES**



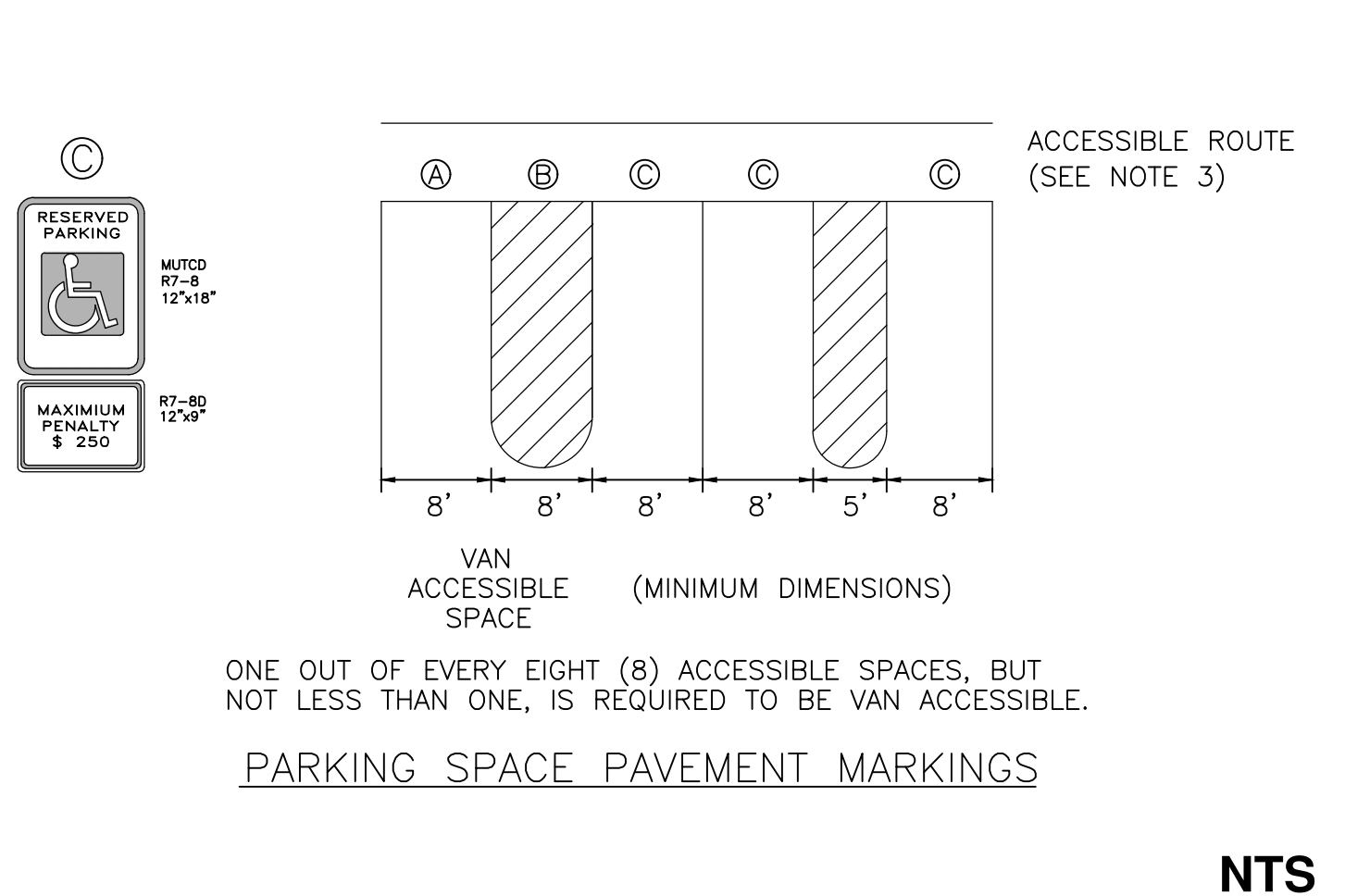
**10 SILT FENCE**



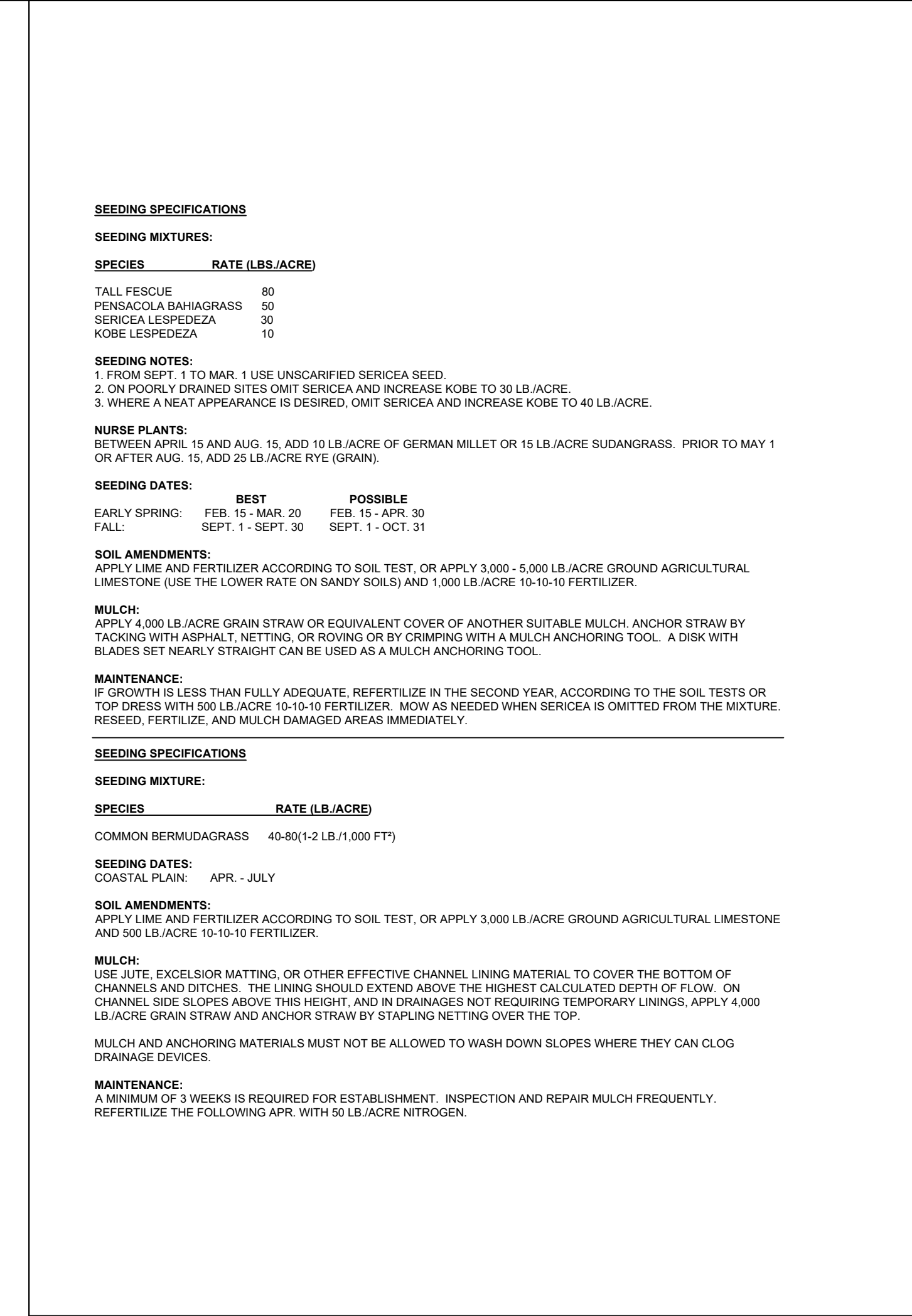
**12 TYPICAL RIP RAP APRON**



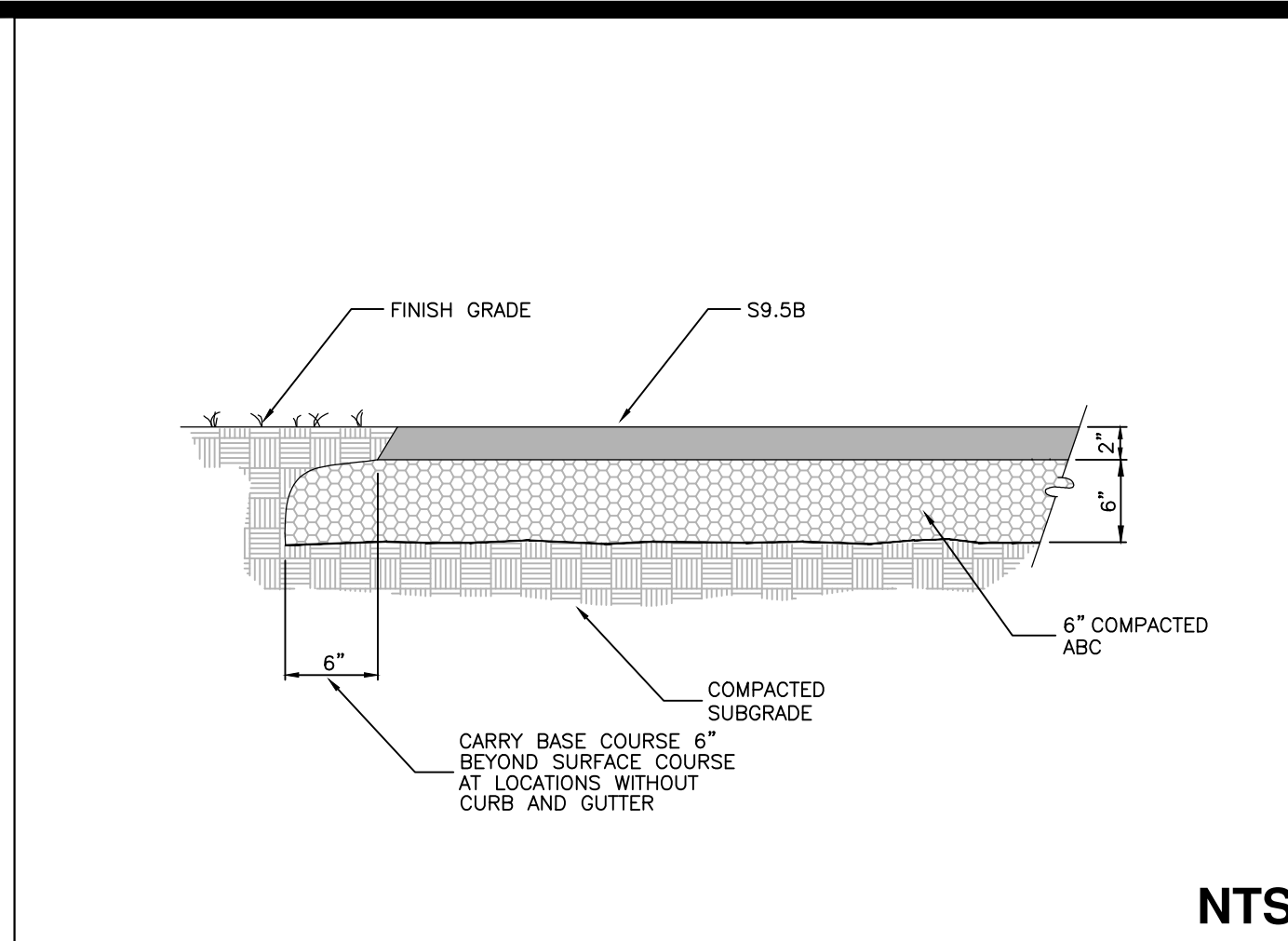
**2 CONCRETE DRIVE PAVEMENT SECTION**



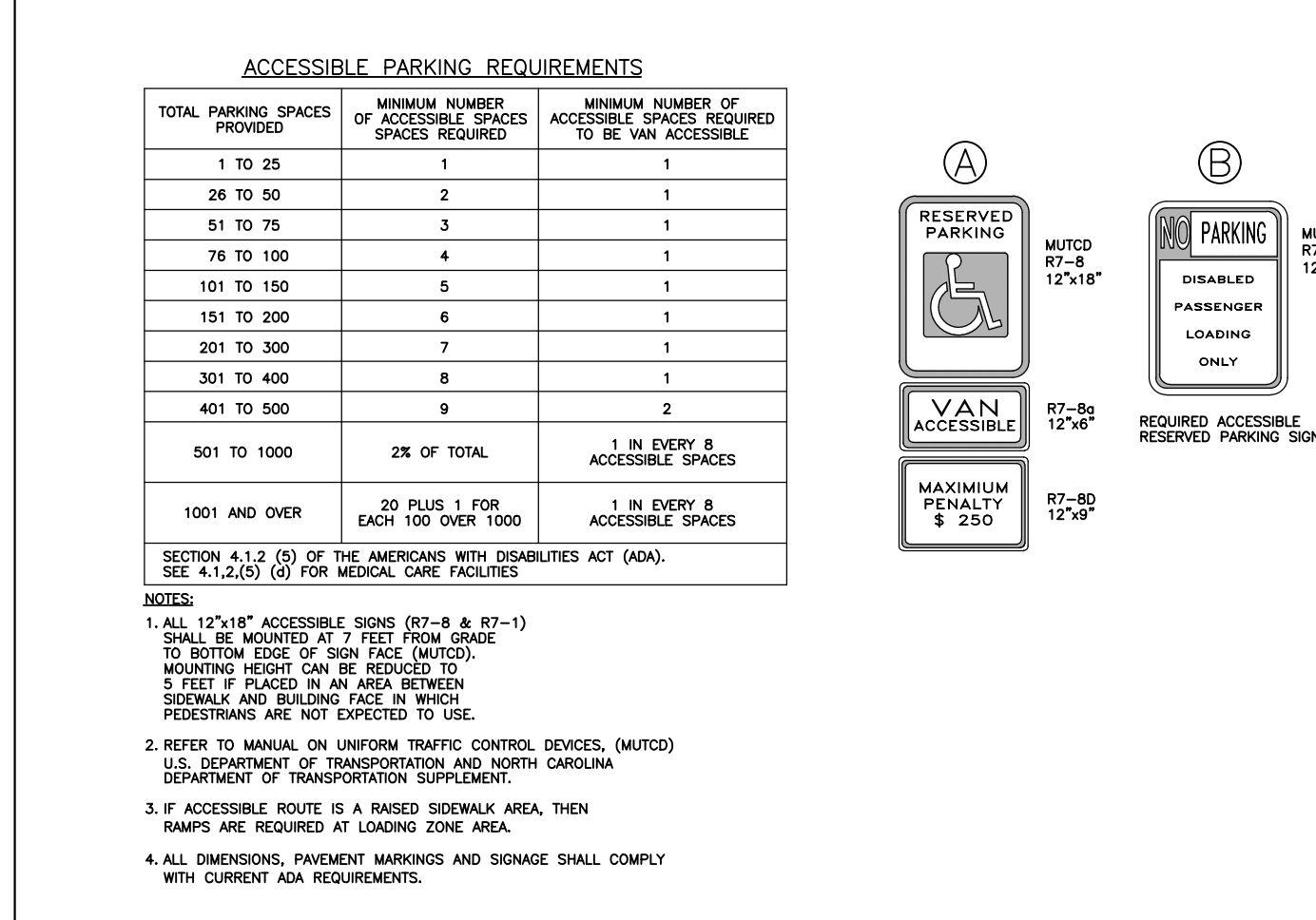
**5 HANDICAP SIGNAGE AND PAVEMENT MARKINGS**



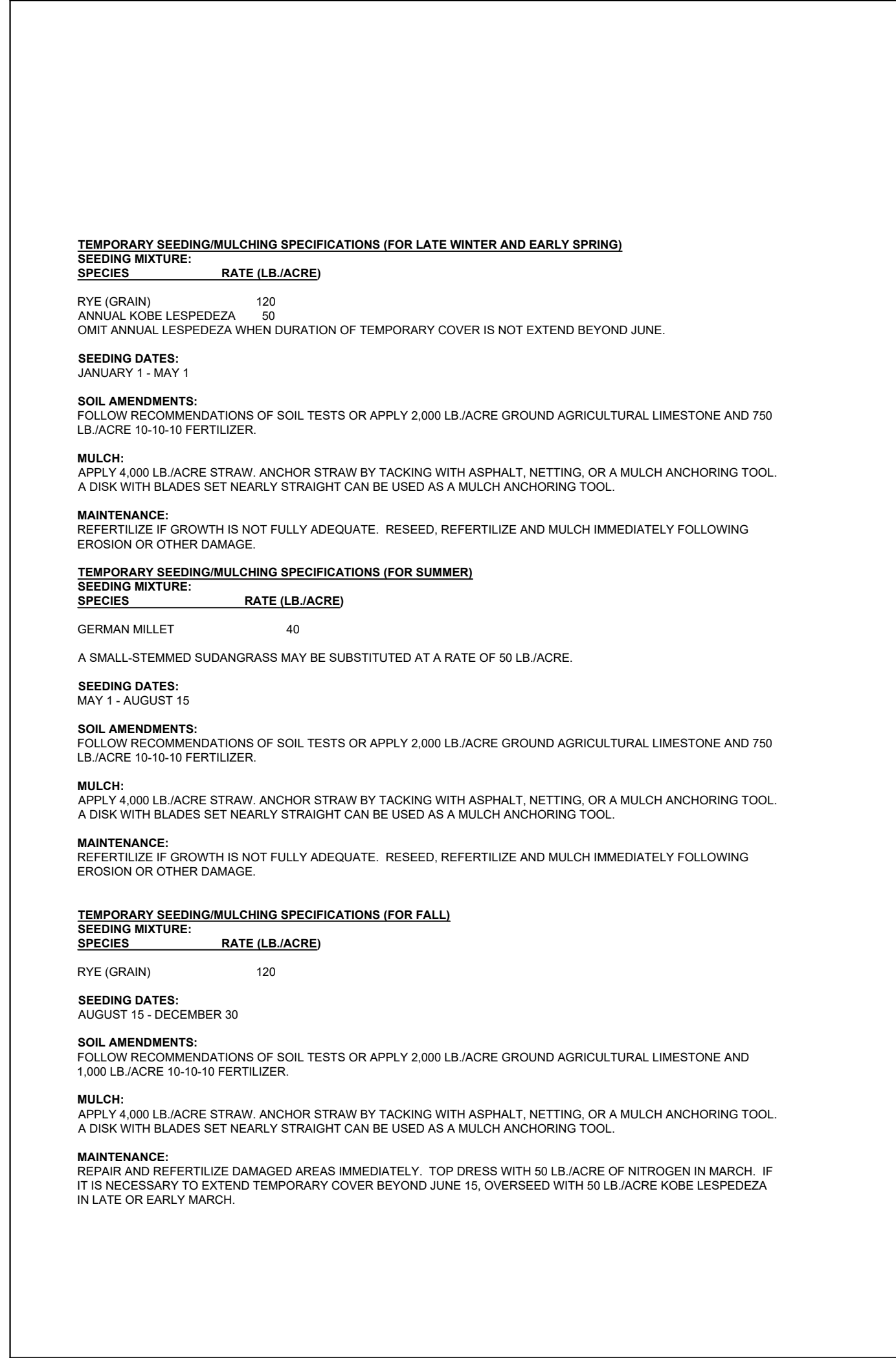
**9 PERMANENT SEEDING SPECIFICATIONS**



**1 ASPAHLT PAVEMENT**



**8 TEMPORARY SEEDING SPECIFICATIONS**



**3 CONCRETE DRIVE PAVEMENT SECTION**

Brian Raynor, Professional Engineer, License No. 027452, State of North Carolina, expires 10-16-23.



REVISIONS

PROJECT NAME

**AIRPORT ROAD HANGAR**

WATER DETAILS

CLIENT

**BRIAN RAYNOR**

2031 Middle Road  
 Fayetteville, NC 28312  
 Phone: (910) 824-1238  
 Fax: (910) 678-9988

PROJECT INFORMATION

DESIGNED BY:	SCOTT
DRAWN BY:	SCOTT
CHECKED BY:	CHRIS
PROJECT NUMBER:	1942

DRAWING SCALE

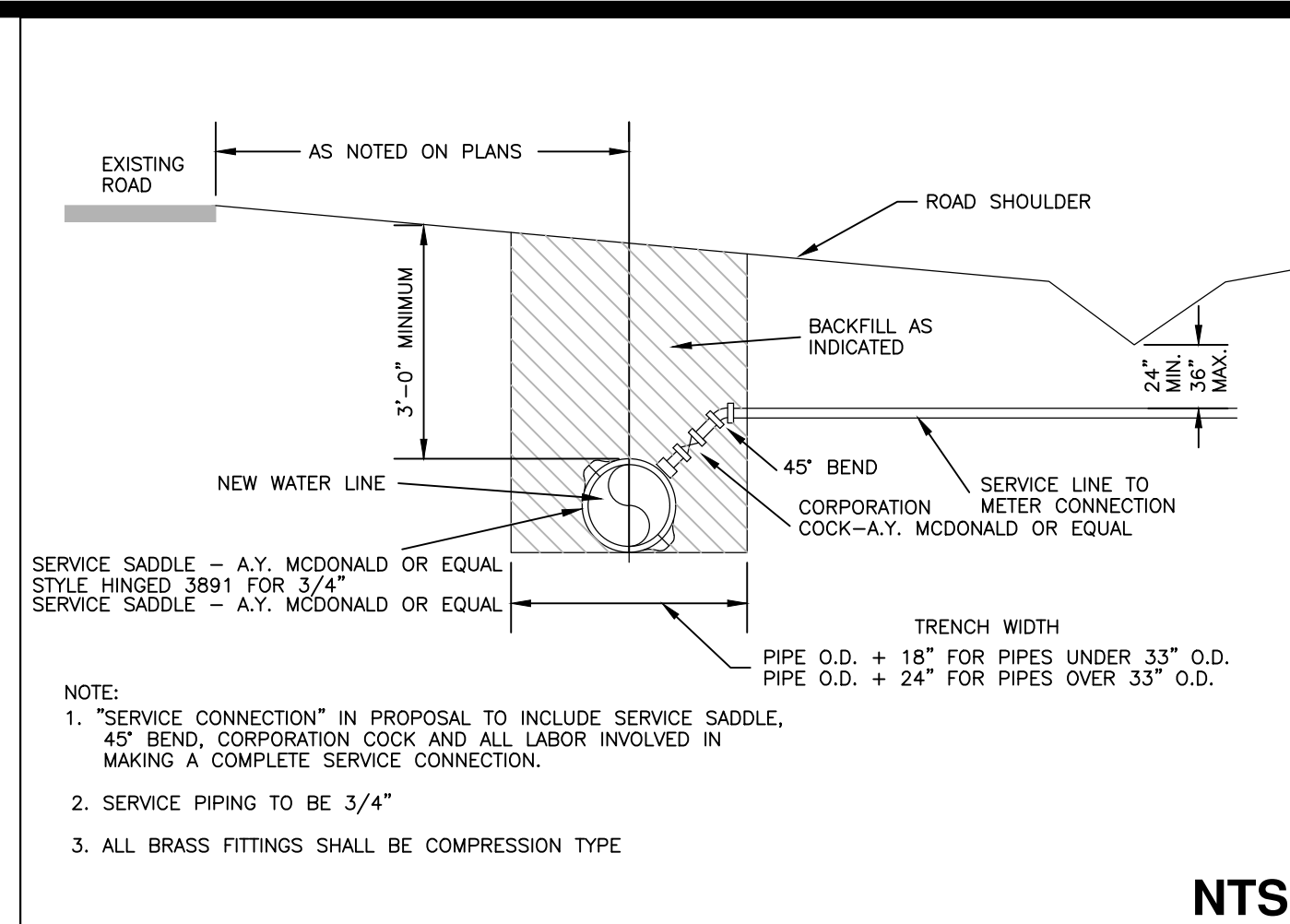
NOT TO SCALE

DATE RELEASED

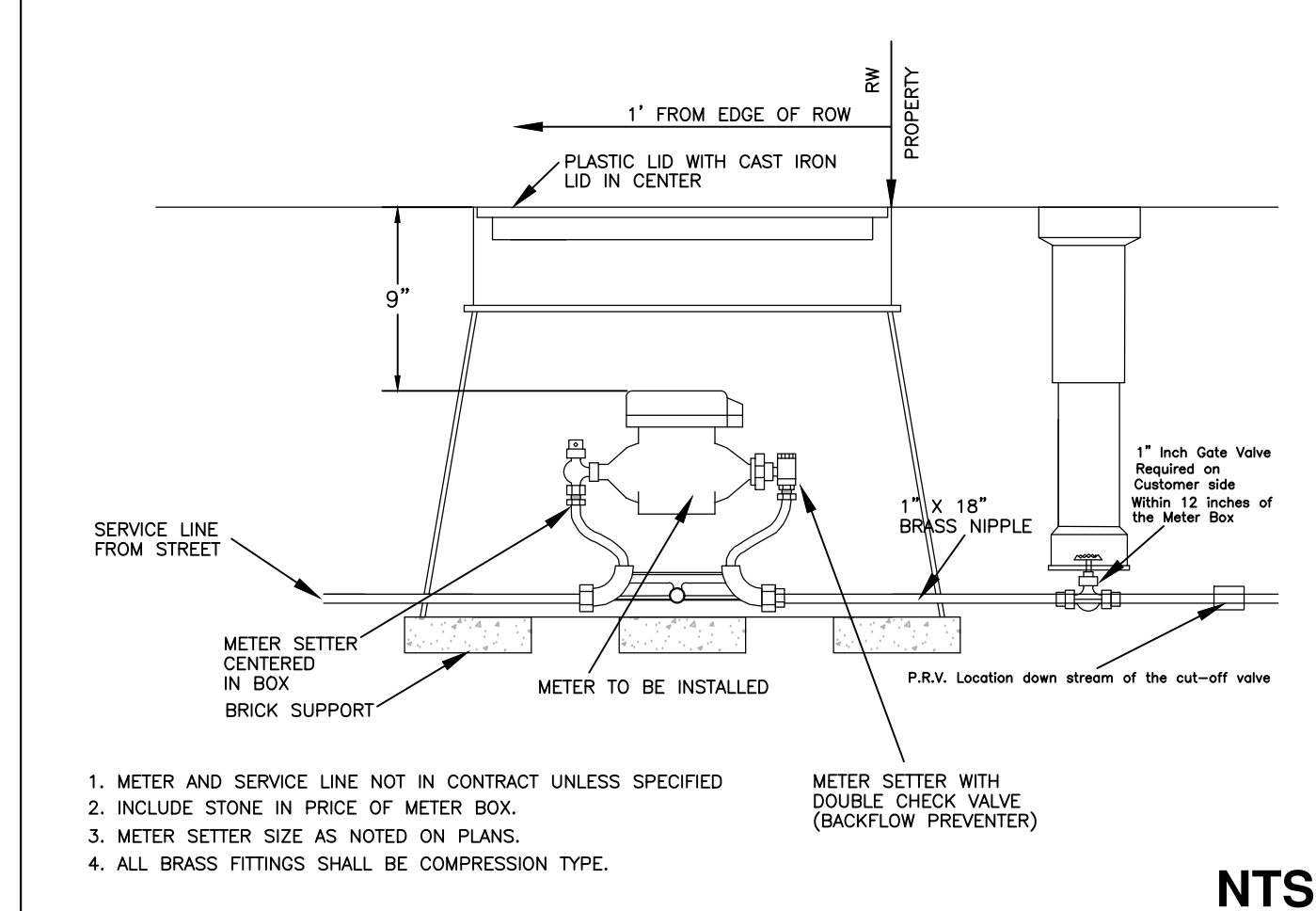
OCTOBER 16, 2023

SHEET NUMBER

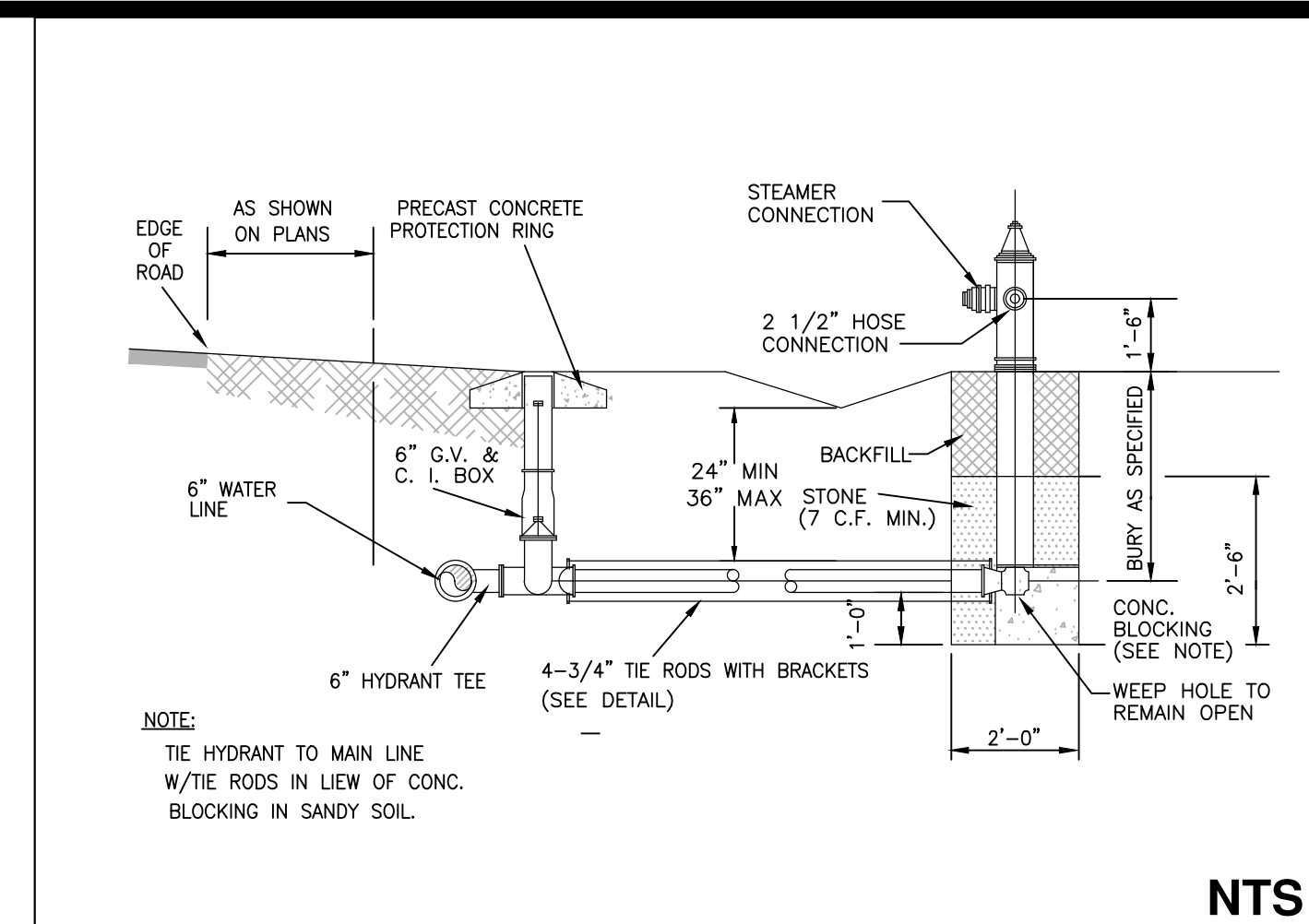
**C-5.1**



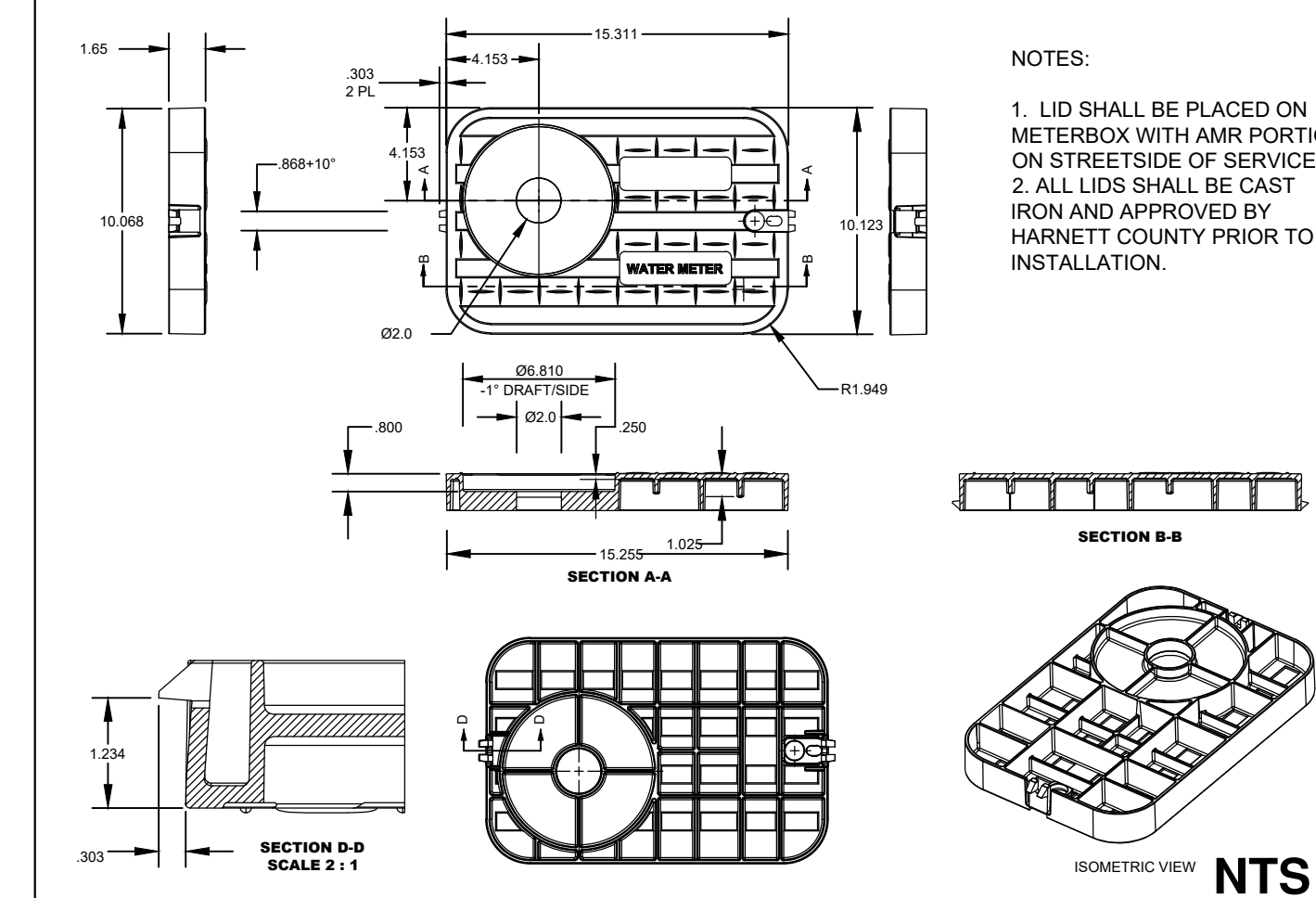
**3 TYPICAL WATER SERVICE CONNECTION**



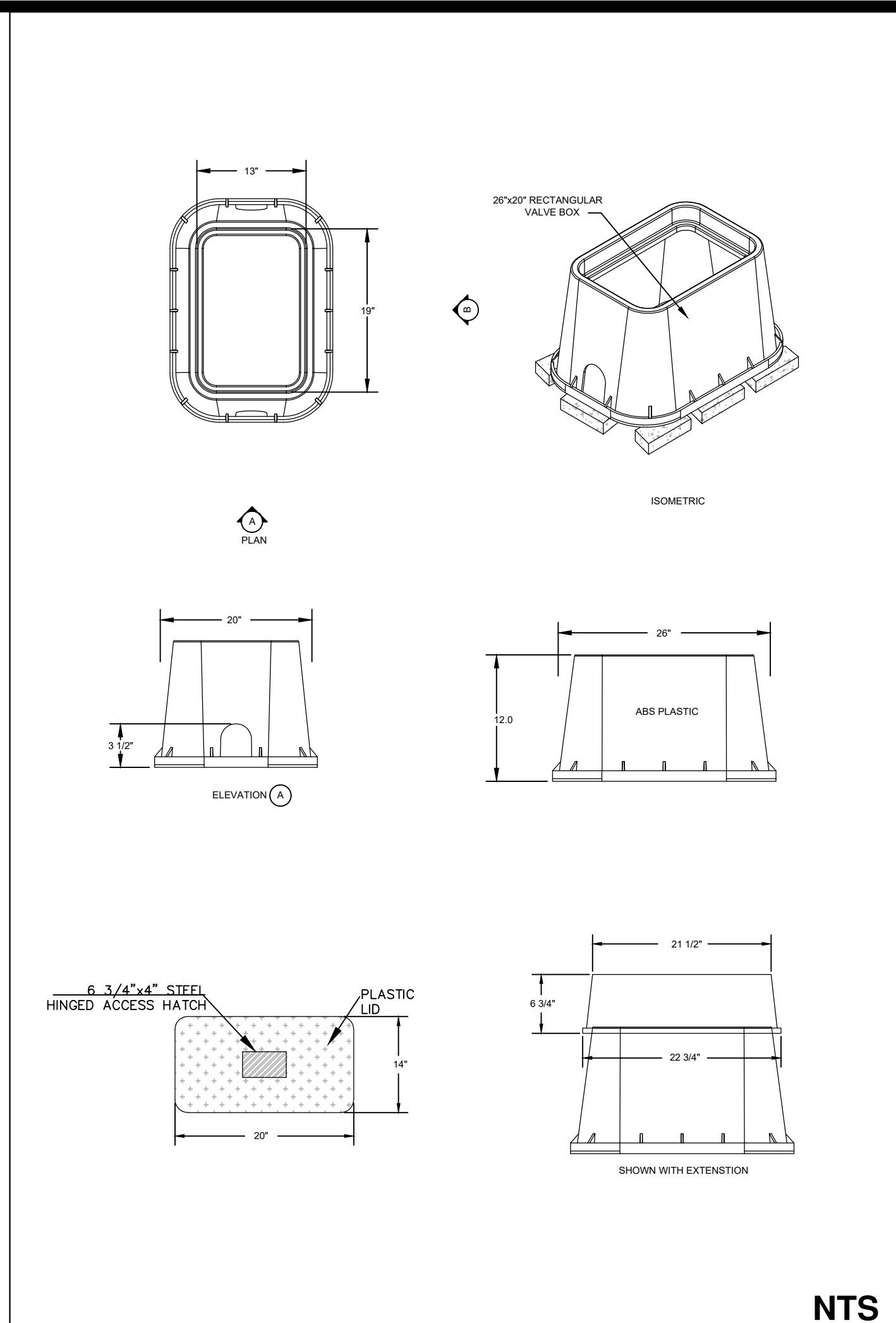
**5 TYPICAL 1" METER BOX INSTALLATION**



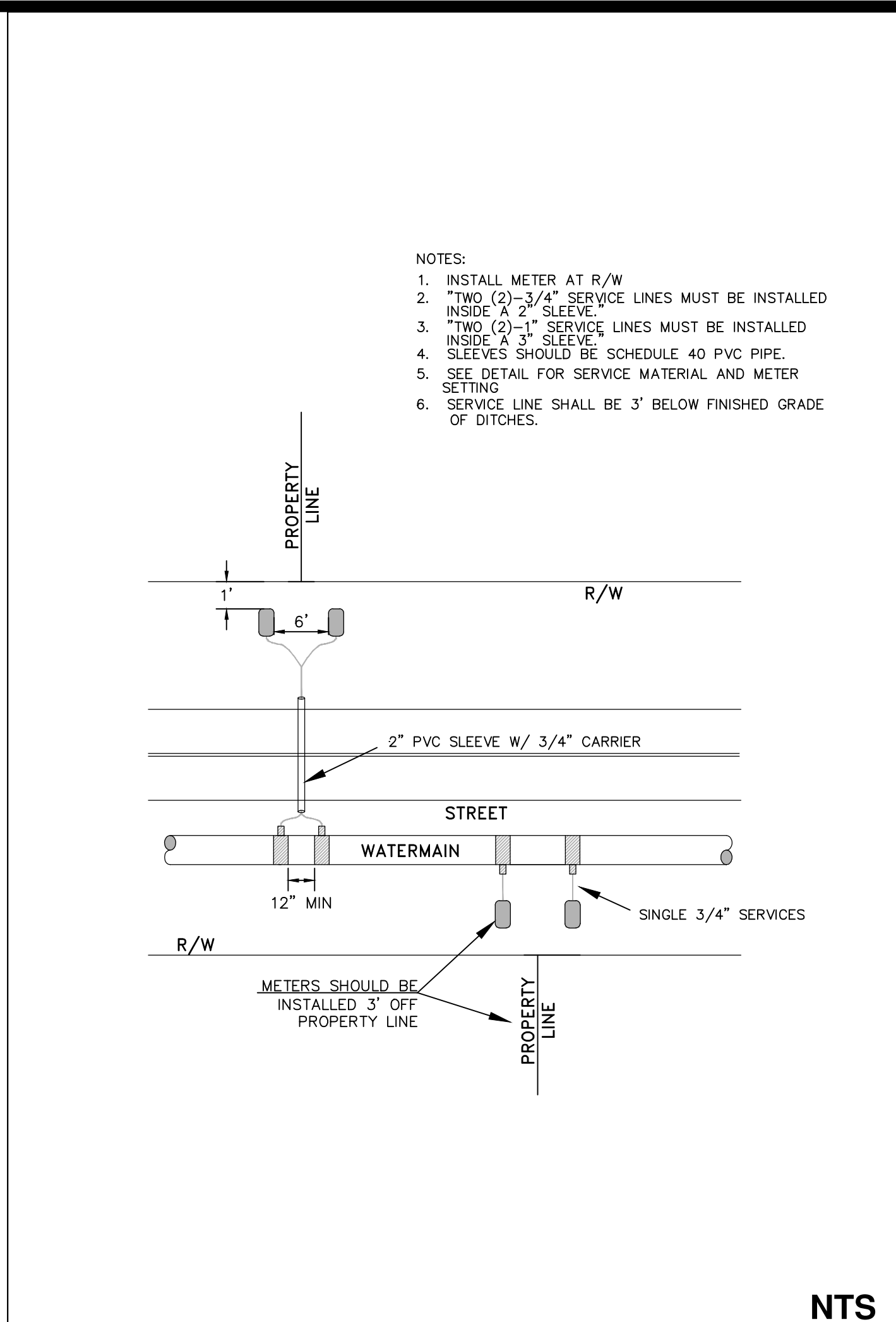
**4 FIRE HYDRANT ASSEMBLY INSTALLATION**



**6 METER BOX AMR LID**



**1 METER BOX DETAIL FOR 1" SERVICE**



**2 TYP. DOMESTIC WATER SERVICE DETAIL**

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