

GENERAL NOTES SECTIONS

A. CONCRETE & FOUNDATION DESIGN:

- ALL CONCRETE AND FOUNDATIONS ATTACHED TO THE HOST STRUCTURE SHALL HAVE A PRE INSPECTION
- ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM
- ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2' NOMINAL THICKNESS.
- FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH
- ALL SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK WITH FIBERMESH
- ALL REINFORCING SHALL CONFORM TO ASTM A615, BE GRADE 60 (60 KSI MIN ) DEFORMED BARS, #3 BARS MAY BE GRADE 40
- ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN., 2" MINIMUM THICKNESS.
- SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
- THE CONCRETE SHALL CONFORM TO ASTM C94 FOR THE FOLLOWING
  - OPC (PORTLAND CEMENT TYPE 1- ASTM C 150)
  - AGGREGATES - #6 STONE , ASTM C 33 SIZE NO 67 LESS THAN 3/4"
  - AIR ENTRAINING +/- 1%- ASTM C 260
  - WATER REDUCING AGENT - ASTM C 494
  - CLEAN POTABLE WATER.
  - OTHER ADMIXTURES SHALL NOT BE PERMITTED
- METAL WELDED WIRE SHALL CONFORM TO ASTM A 185
- PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS RECOMMENDATIONS.
- IF UTILIZING EXISTING CONCRETE FOR FOUNDATION, CONCRETE SHALL BE A MINIMUM OF 4 IN THICKNESS, VISIBLY FREE OF ANY STRUCTURAL EXCESSIVE CRACKING, SPALLING OR OTHER DETERIORATION

B. MASONRY:

- CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 2000 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
- ALL MORTAR SHALL BE OF TYPE M OR S.
- ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8"
- PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT

C. ALUMINUM:

- ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6005-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS
- WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0 024" SHALL APPLY
- STRUCTURAL ALUMINUM DESIGN CONFORMS TO "PART 1-A - SPECIFICATIONS FOR ALUMINUM STRUCTURES - ALLOWABLE STRESS DESIGN" OR "PART 1-B - SPECIFICATIONS FOR ALUMINUM STRUCTURES - BUILDING LOAD AND RESISTANCE FACTOR DESIGN" OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC WASHINGTON D.C. FLORIDA BUILDING CODE EIGHTH EDITION (2023), BUILDING (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINUM)
- WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC SEPARATION
- ALUMINUM SELF MATING BEAM MEMBERS SHALL BE STITCHED WITH NO LESS THAN #10 SMS 6" FROM THE ENDS AND 12" ON CENTER, IF USING #12 SPACING MAY BE 24" ON CENTER.
- VINYL AND ACRYLIC PANELS SHALL BE REMOVABLE THEY SHALL BE IDENTIFIED WITH A DECAL ESSENTIALLY STATING "REMOVABLE PANEL SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH" DECAL SHALL BE PLACED SO IT IS VISIBLE WHEN PANEL IS INSTALLED VINYL AND ACRYLIC PANELS MAY NOT BE USED IN FLOOD ZONE A

- 1'X2 X0 040" NON STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4"Ø X 1-3/4' EMBEDMENT & 24' O C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10X 1/2 EMBEDMENT SMS OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL.

D. FASTENERS:

- ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8, WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFIES FOR USE WITH ACQ PRESSURE TREATED WOOD
- HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS
- ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILTI, RAWL, TAPCON, REDHEAD, DYNABOLT, PORTECT OR APPROVED EQUAL.
- ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED
- ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X BOLT DIAMETER INTO STRUCTURAL FRAMING (G=42 MIN )
- LAG BOLTS AND SCREWS INTO WOOD FRAMING SHALL BE PROVIDED WITH PILOT HOLES HAVING A DIAMETER NOT GREATER THAN 70 PERCENT OF THE THREAD DIAMETER OF THE BOLT OR SCREW ALL LAG BOLTS AND SCREWS SHALL BE INSERTED IN PILOT HOLES BY TURNING AND UNDER NO CIRCUMSTANCES BY DRIVING WITH A HAMMER.
- ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S REQUIREMENTS AND ALLOWABLE LOADS AND SHALL ONLY BE APPLIED IN CONDITIONS ACCEPTABLE TO MANUFACTURER. FASTENERS SHALL BE A MINIMUM OF SAE GRADE #5 OR BETTER ZINC PLATED
- ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFIES FOR USE WITH ACQ PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
- ALL FASTENERS SHALL COMPLY WITH ASTM A153
- ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185
- FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" UNLESS NOTED OTHERWISE

E. REFERENCE STANDARDS: (CURRENT EDITIONS OF)

ASTM E 119  
ASTM E 1300  
ASCE 7  
ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC FOR ALUMINUM PART 1-A, & 1-B  
ASTM C94  
ASTM C150  
ASTM C33  
ASTM C260  
ASTM C494  
ASTM A615  
ASTM A185  
FLORIDA BUILDING CODE

F. ABBREVIATIONS:

THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THESE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS

- TYP -- TYPICAL
- SIM -- SIMILAR
- UON -- UNLESS OTHERWISE NOTED
- CONT -- CONTINUOUS
- VIF -- VERIFY IN FIELD
- SMB -- SELF MATING BEAM
- FSM -- FLORIDA SALES AND MARKETING

G. RESPONSIBILITY:

- ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONDITIONS

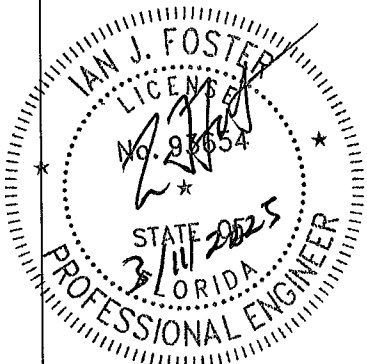
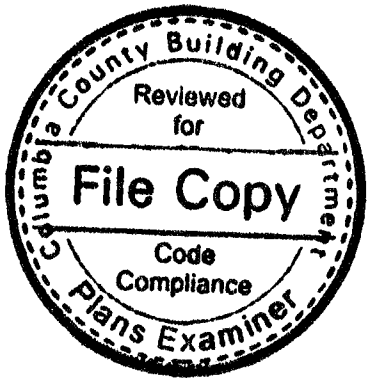
- THESE DRAWINGS REPRESENT THE ACCEPTABILITY

OF THE 'SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.

- ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
- ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES
- WHEN ATTACHING TO FASCIA, THE HOST STRUCTURE SHALL HAVE AT LEAST A 2"X4' FASCIA AND ROOF TRUSS SYSTEM CONTRACTOR SHALL VERIFY THIS AND IF SMALLER, CONTRACTOR SHALL BRING STRUCTURE UP TO A 2"X4' FASCIA AND ENSURE LESS THAN A 2'-0" OVERHANG
- FBC PLANS & ENGINEERING SERVICES INC. DOES NOT WARRANT, EITHER EXPRESSLY OR IMPLIED, THE QUALITY OF THE CONSTRUCTION, AND IS NOT RESPONSIBLE FOR THE INTERPRETATION OF DESIGNS AND END USE BY THE CLIENT/CONTRACTOR.
- CONTRACTOR TO VERIFY FEMA FLOOD ZONE OF THE PROPOSED STRUCTURE LOCATION TO ENSURE STRUCTURE IS NOT WITHIN SPECIAL FLOOD HAZARD AREAS

H. MISCELLANEOUS:

- ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM MUST BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME
- IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING BARRIER REQUIREMENTS OF FLORIDA BUILDING CODE EIGHTH EDITION (2023), RESIDENTIAL R 4501.17 IN ITS ENTIRETY
- DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
- IF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST AND ADHERED WITH MINIMUM 3000 PSI GROUT
- SCREENING MATERIAL SHALL BE 18X14X0 013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2
- ALL STRUCTURAL POST SHALL BE ANCHORED TO AN EXISTING/PROPOSED CONCRETE FOUNDATION FOR UPLIFT PURPOSES.
- TORNADO CODE NOT APPLICABLE TO RISK CATEGORY 1 AND RISK CATEGORY 2 STRUCTURES
- 1 ASCE/SEI STANDARD 7-22, FIGS 32.5-1, 32.5-2, AND G 2.1 THROUGH -4



PROFESSIONAL ENGINEER SEAL

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PROJECT SANDQUIST 281 GUN SWAMP RD LAKE CITY, FL 32055

CONTRACTOR LAKESIDE ALUMINUM

JOB NUMBER: 25\_0305\_031

DRAW DATE 03/05/2025

REVISION 1

REVISION 2

REVISION 3

NOTES

S-1

ALUMINUM STRUCTURAL MEMBERS

HOLLOW SECTIONS

2 X 2 -----2" X 2" X 0 044  
2 X 3 -----2 X 3 X 0 050  
2 X 4 -----2" X 4 X 0 050  
2 X 5 -----2 X 5" X 0.050"  
3 X 3 -----3" X 3 X 0.125

OPEN BACK SECTIONS

1 X 2 -----1 X 2" X 0 040"  
1 X 3 -----1" X 3" X 0 045

SNAP SECTIONS

2 X 2 SMS -----2 X 2 X 0 045"  
2 X 3 SMS -----2 X 3 X 0.072  
2 X 4 SMS -----2" X 4 X 0 045  
3 X 3 SMS -----3" X 3" X 0 090

SELF MATING (SMB)

2 X 4 SMB:-----2 X 4" X 0.044 X 0 100"  
2 X 5 SMB:-----2 X 5" X 0 050" X 0 118  
2 X 6 SMB -----2 X 6 X 0 050 X 0 120  
2 X 7 SMB:-----2 X 7 X 0 057 X 0 120"  
2 X 8 SMB:-----2" X 8" X 0 072" X 0 224"  
2 X 9 SMB -----2 X 9" X 0 072" X 0 224  
2 X 10 SMB:-----2" X 10 X 0 092" X 0 374"

TUBE SECTIONS

2 X 2.-----2 X 2 X 0 090"

INDEX

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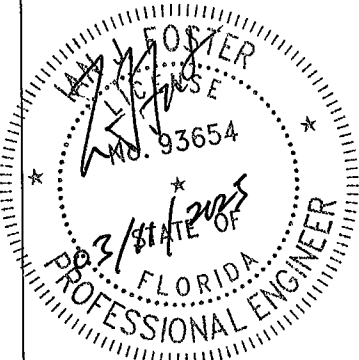
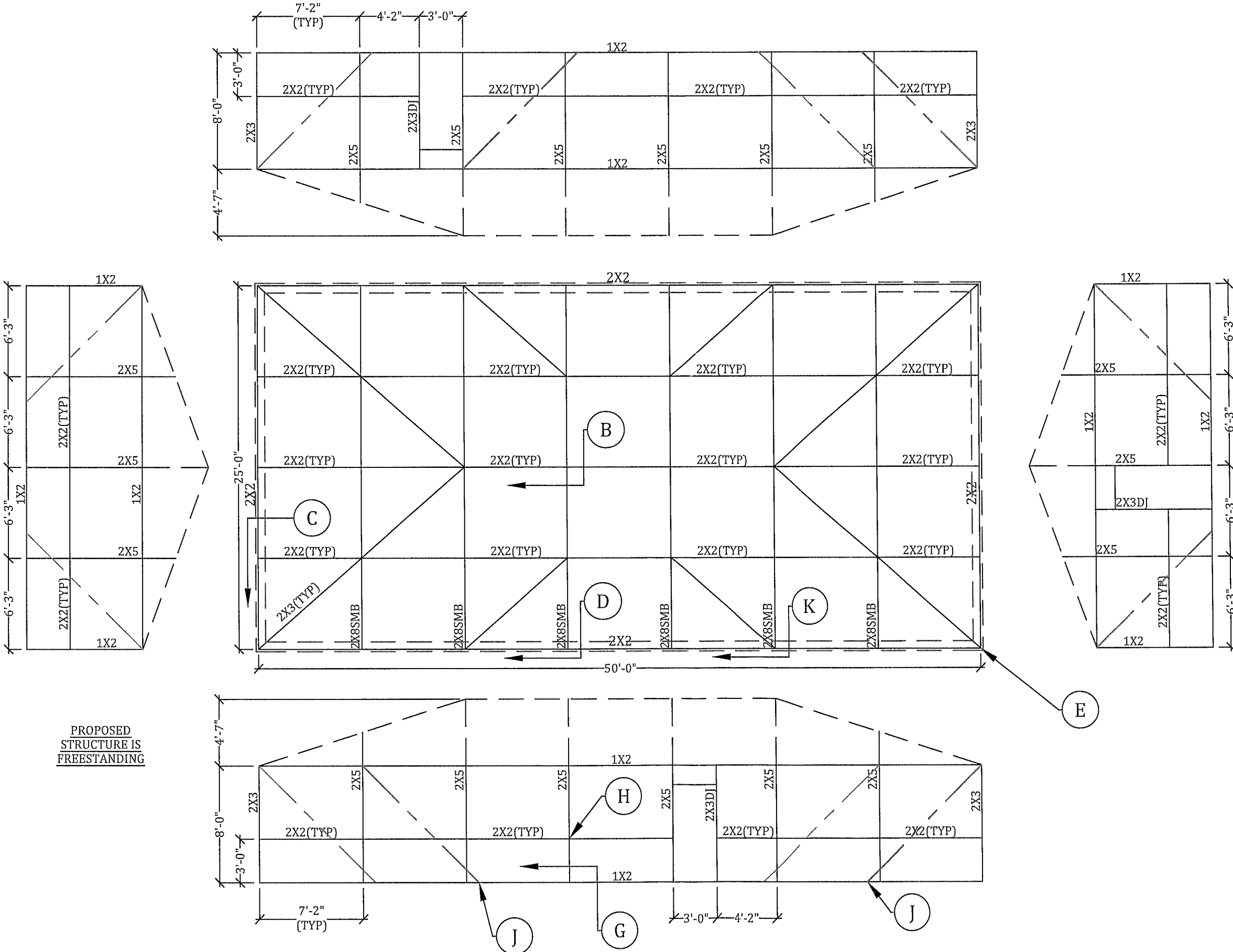
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DETAILS  
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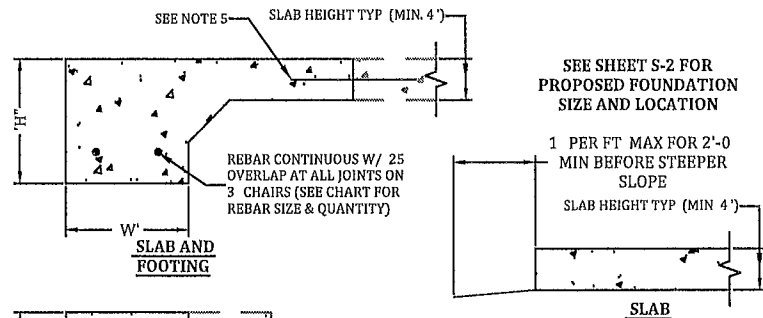
DOOR LOCATION MAY BE DETERMINED IN THE FIELD BY THE CONTRACTOR.  
18X14 SCREEN TO BE USED

F



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S-2



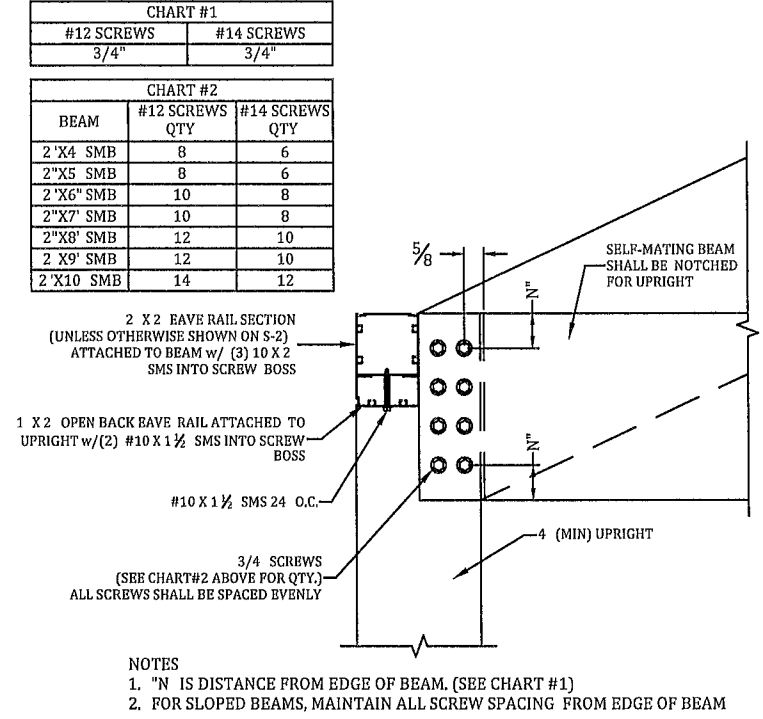
LINEAL RIBBON FOOTING

NOTES FOR ALL FOUNDATION TYPES

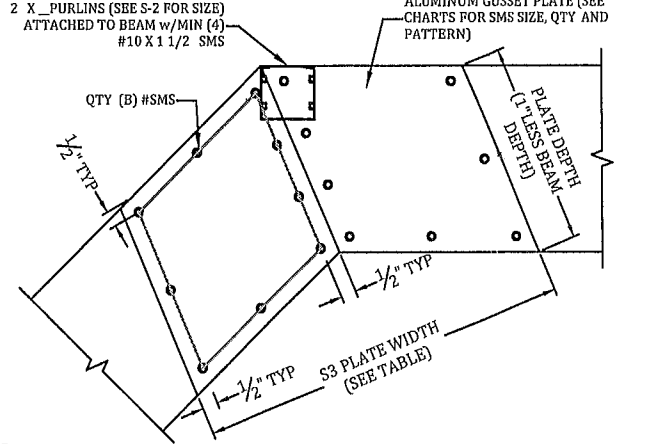
REBAR BY FOOTER WIDTH				
H"	W"	#5 REBAR QTY	#4 REBAR QTY	
8" 10", 12"	8"	1	1	
8", 10", 12"	10"	1	1	
8", 10", 12"	12"	1	2	
8", 10", 12"	16"	3	4	
REBAR SIZES ARE NOT TO BE MIXED (CONTRACTOR MAY USE #5 OR #4)				

- NOTES FOR ALL FOUNDATION TYPES
1. THE FOUNDATIONS SHOWN ARE BASED ON A MINIMUM SOIL BEARING PRESSURE OF 1,500 PSF. THE BEARING CAPACITY OF THE SOIL VERIFIED BY A LICENSED CONTRACTOR PRIOR TO ANY POURING OF CONCRETE.
  2. THE SLAB/FOUNDATION MUST BE CLEARED OF ALL DEBRIS AND COMPACTED PRIOR TO POURING OF ANY CONCRETE.
  3. CONCRETE MEET THE SPECIFICATIONS IN THE S-1 NOTES PAGE.
  4. HEIGHT AND WIDTH ARE INTERCHANGEABLE EXCEPT 12" WIDTH X 16" HEIGHT IS NOT APPLICABLE.
  5. WHEN PINNING USE A MINIMUM OF (1) 12" #5 REBAR W/ 6" EMBEDMENT @ 48" O.C. REQUIRED FOR ACCESSORY STRUCTURE TO ACCESSORY STRUCTURE CONCRETE BUT OPTIONAL FOR ACCESSORY STRUCTURE TO HOST STRUCTURE CONCRETE, HOWEVER SLAB ONLY MUST BE PINNED TO HOST STRUCTURE.

**K** FOUNDATION DETAIL  
SCALE N.T.S.



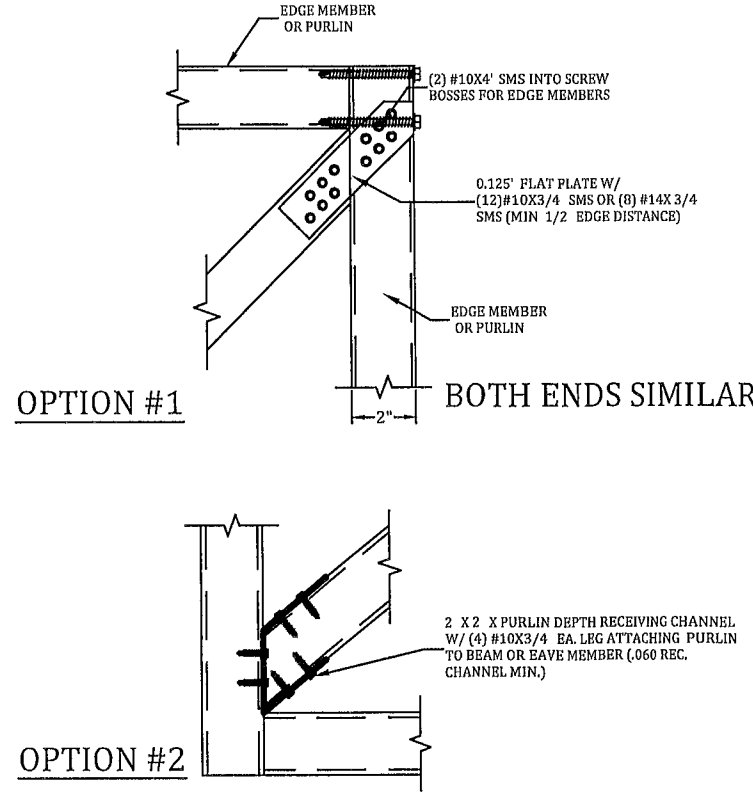
**D1** UPRIGHT TO BEAM CONNECTION - ALL WIND ZONES  
SCALE N.T.S.



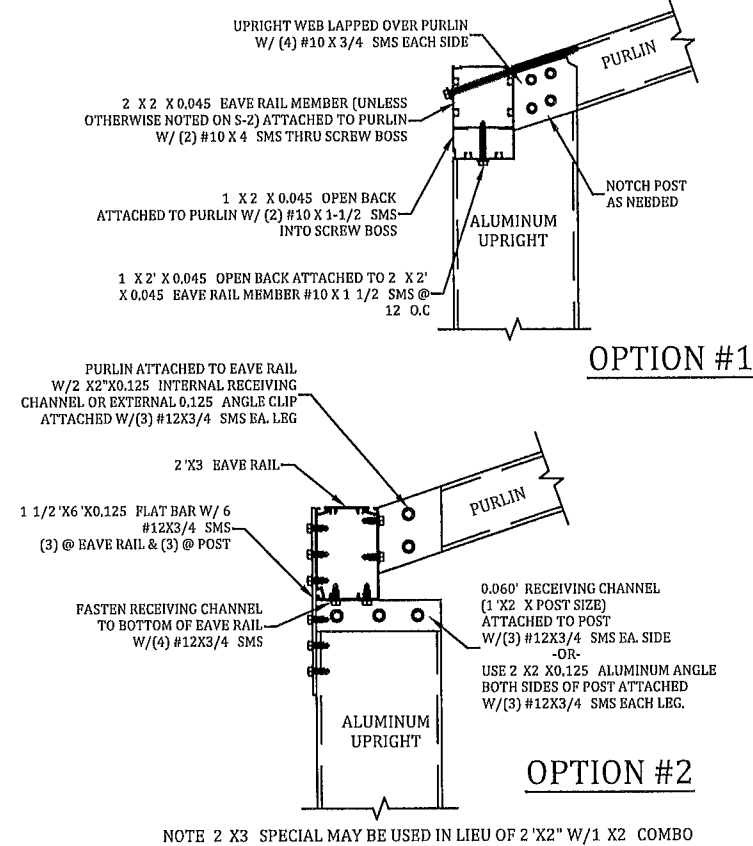
- NOTES
1. TOTAL NUMBER OF SCREWS PER JOINT EQUALS 4 TIMES "B"
  2. PLATE WIDTH SHALL BE DETERMINED FROM ANGLE OF BEAM AND MINIMUM SPACE REQUIRED "S3" IS MINIMUM PLATE WIDTH.
  3. GUSSET PLATES CAN BE EXTERNAL OR INTERNAL.
  4. INTERNAL SCREWS FOR PURLIN CONNECTION MAY BE INCLUDED IN TOTAL NUMBER OF SCREWS.
  5. 3/16" GUSSET PLATE CAN BE USED IN LIEU OF 1/8" GUSSET PLATE.
  6. ALL SPLICES WILL HAVE THE SAME PATTERN.
  7. ALL SCREWS SHALL BE SPACED EQUALLY.
  8. DETAIL SHOWS 2X6SMB WITH 1/8" ALUMINUM GUSSET PLATE AS AN EXAMPLE.

BEAM	GUSSET PLATE	SMS	B'	S3
2X4	1/8"	#12	9/18/36	16"
2X5	1/8"	#12	9/18/36	16"
2X6	1/8"	#12	9/18/36	16"
2X7	1/8"	#12	10/20/40	18"
2X8	3/16"	#12	14/28/56	18"
2X8	3/16"	#14	12/24/48	18"
2X9	3/16"	#14	14/28/56	20"
2X10	3/16"	#14	15/30/60	20"

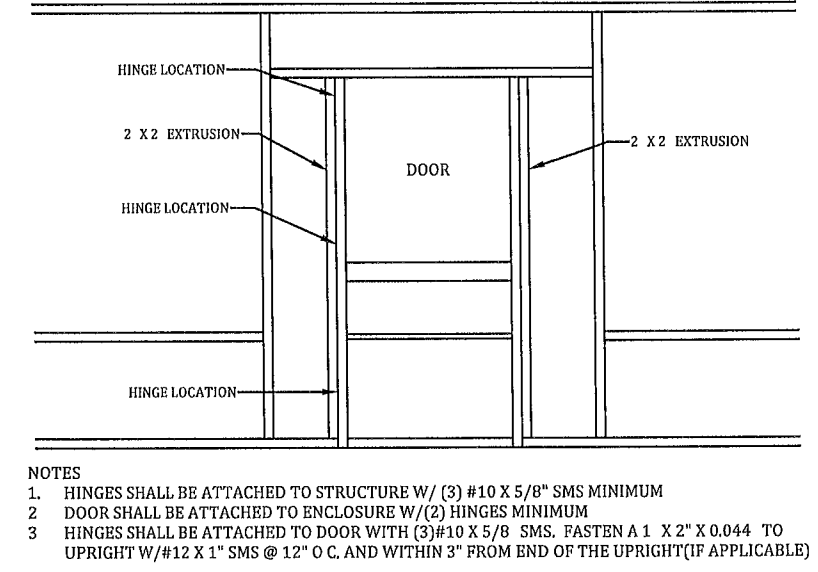
**B** BEAM SPLICE GUSSET DETAIL  
SCALE N.T.S.



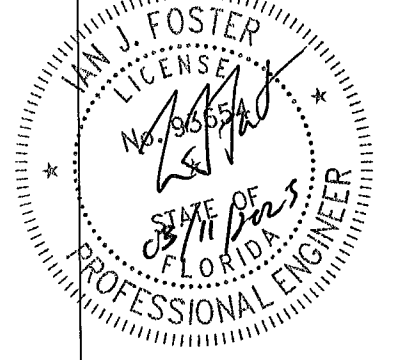
**E** ROOF BRACING CONNECTION DETAIL  
SCALE N.T.S.



**C** SLOPED OR FLAT PURLIN UPRIGHT LAP DETAIL  
SCALE N.T.S.

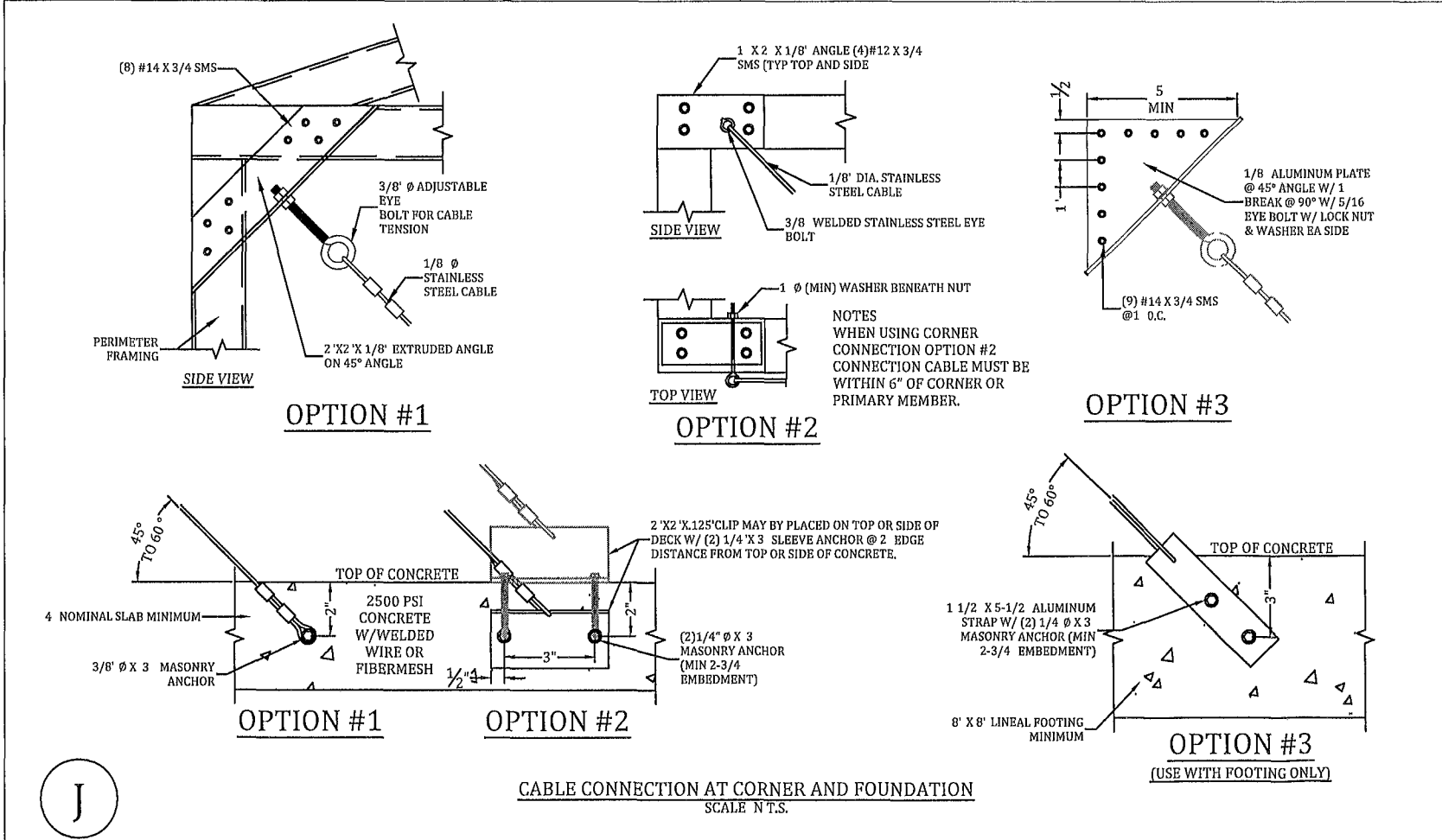
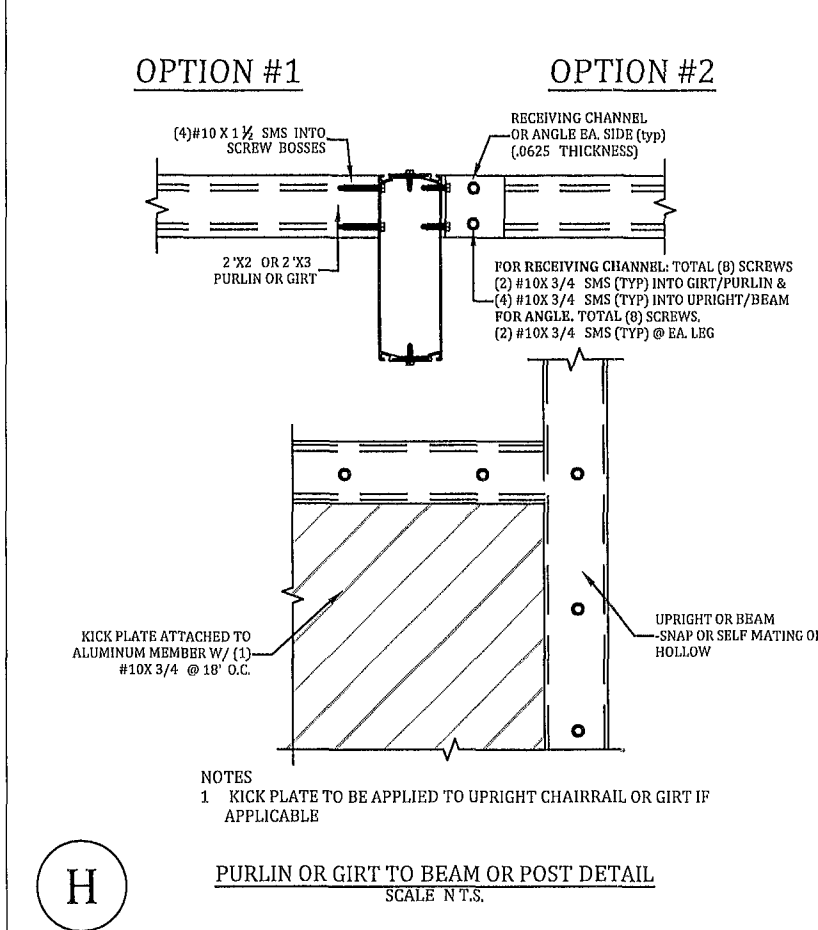
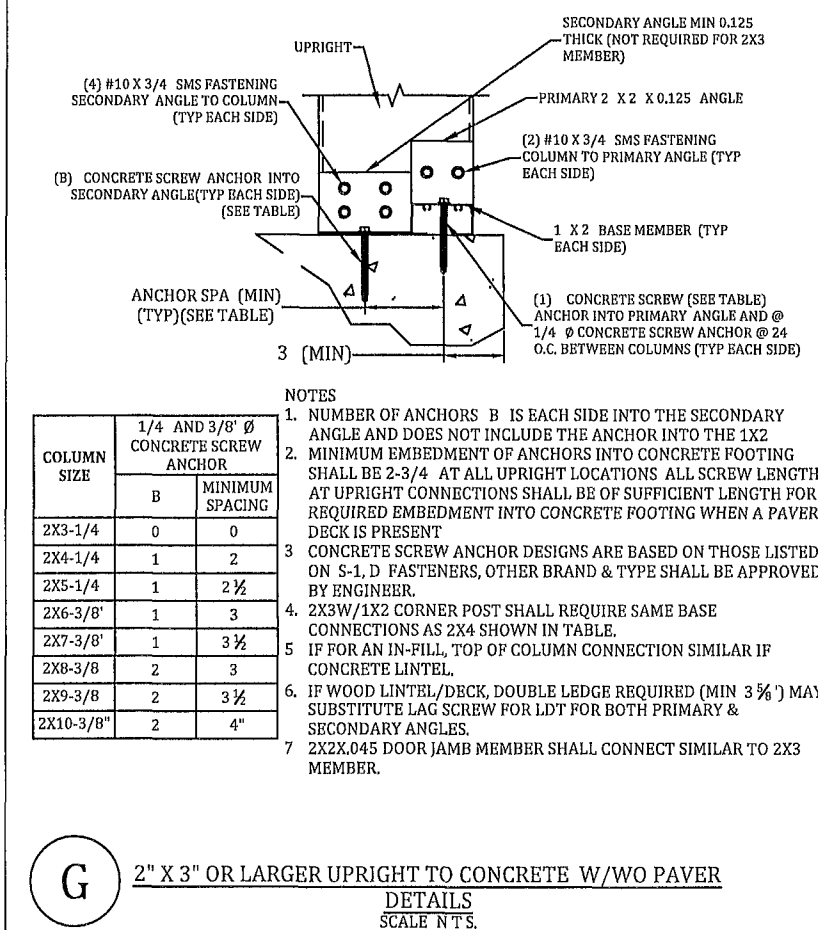


**F** TYPICAL SCREEN DOOR CONNECTION DETAIL  
SCALE N.T.S.



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JOB NUMBER:		DETAILS	
25_0305_031		S-3	
DRAW DATE: 03/05/2025		REVISION 1	
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		REVISION 3	



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JOB NUMBER:		DRAW DATE:		REVISION	
25_0305_031		03/05/2025		REVISION 1	
				REVISION 2	
				REVISION 3	

**DETAILS**

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