

General Notes

A. CONCRETE & FOUNDATION DESIGN:

1. ALL CONCRETE GRADE BEAMS AND FOOTINGS SHALL BE 3000 PSI MINIMUM.
2. ALL CONCRETE FILLED SUPPORTED SLABS SHALL BE 2500 PSI MINIMUM, 3 1/2" NOMINAL THICKNESS.
3. FIBERMESH (3/4" PER CUBIC YARD MIN.) MEETING APPROPRIATE ACI AND ASTM REQUIREMENTS MAY BE USED IN LIEU OF WELDED WIRE MESH.
4. ALL SLABS ON GRADE SHALL BE 4" THICK WITH FIBERMESH.
5. ALL REINFORCING SHALL CONFORM TO ASTM A615. BE GRADE 60 (60 KSI MIN.) DEFORMED BARS. #3 BARS MAY BE GRADE 40 BE 3000 PSI MIN. 2" MINIMUM THICKNESS.
6. ALL OVER POUR CONCRETE FILLED SUPPORTED SLABS SHALL BE 3000 PSI MIN. 2" MINIMUM THICKNESS.
7. SOIL BEARING PRESSURE SHALL BE A MINIMUM OF 1500 PSF.
8. 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".
9. AIR ENTRAINING +/- 1% - ASTM C 260.
WATER REDUCING AGENT - ASTM C 494.
CLEAN POTABLE WATER.
10. OTHER ADMIXTURES SHALL NOT BE PERMITTED.
11. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
12. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS RECOMMENDATIONS.
13. 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:

1. CONCRETE MASONRY UNITS (CMU) SHALL BE STANDARD HOLLOW UNITS AND SHALL BE 1900 PSI MINIMUM BASED ON TYPE M OR S MORTAR.
2. ALL MORTAR SHALL BE OF TYPE M OR S.
3. ALL GROUT SHALL BE 2000 PSI MINIMUM AND HAVE MAXIMUM COARSE AGGREGATE SIZE OF 3/8".
4. PROVIDE CLEAN-OUTS FOR REINFORCED CELLS CONTAINING REINFORCEMENT WHEN GROUT POUR EXCEEDS 5'-0" IN HEIGHT.
5. HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
6. ALL CONCRETE SCREWS SHALL BE SIMPSON, HILTI, RAWL, TAPCON, REDHEAD, DYNABOLT, PORTECT OR APPROVED EQUAL.
7. ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
8. 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.
9. ALL EXPANSION ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPECIFIC MANUFACTURERS 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.
10. ALL FASTENERS CONNECTING ALUMINUM COMPONENTS OR PRESSURE TREATED LUMBER ARE STAINLESS STEEL TYPE 300 18-8, UNLESS MANUFACTURER GALVANIZED BOLTS SPECIFICS FOR USE WITH ACQ PRESSURE TREATED WOOD, OR OTHERWISE NOTED ON PLANS.
11. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
12. ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185.
13. 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:

- ASTM E 119
- ASTM E 1300
- CURRENT ASCE 7
- FOR ALUMINUM DESIGN MANUAL-AA ASM35, AND SPEC. FOR ALUMINUM PART 1-A, & 1-B
- ASTM C94
- ASTM C94
- ASTM C33
- ASTM C360
- ASTM C494
- ASTM A615
- ASTM A185
- FLORIDA BUILDING CODE 7th EDITION (CHAPTERS 16, 20 & 23).

C. ALUMINUM:

1. ALL STRUCTURAL ALUMINUM SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF 6005-T5 FOR ALLOY WITH A MINIMUM THICKNESS OF 0.040" FOR SUPPORTING MEMBERS.
2. WHERE KICK PLATES ARE USED A MINIMUM THICKNESS OF 0.024" SHALL APPLY.
3. 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. THE FLORIDA BUILDING CODE 7th EDITION (CHAPTER 16 STRUCTURAL DESIGN & CHAPTER 20 ALUMINUM).
4. WHERE ALUMINUM COMES INTO CONTACT WITH STEEL, OR PRESSURE TREATED LUMBER PROVIDE DIELECTRIC SEPARATION.
5. ALUMINUM 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.
6. 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.
7. 1"x2"x0.045" 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:

1. ALL LAG BOLTS SHALL CONFORM TO STAINLESS STEEL TYPE 300 18-8 WITH STANDARD FLAT WASHER UNLESS MANUFACTURER GALVANIZES BOLTS SPECIFICS FOR USE WITH ACQ PRESSURE TREATED WOOD.

H. MISCELLANEOUS:

1. 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.
2. IF ENCLOSURE CONTAINS A SWIMMING POOL OR SPA, THE ENCLOSURE SHALL COMPLY WITH RESIDENTIAL SWIMMING BARRIER REQUIREMENTS OF THE FBC 7th EDITION R 450.1.17 IN ITS ENTIRETY.
3. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
4. 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.
5. SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2.

DESIGN DATA:
 1. ULTIMATE DESIGN WIND SPEED Vult (3 SECOND GUST): 130 MPH
 2. NOMINAL DESIGN WIND SPEED Vasd: 101 MPH
 3. RISK CATEGORY: 1
 4. WIND EXPOSURE: B
 5. WIND LOADS: N/A
 6. SCREEN ROOF: N/A
 7. SCREEN WALLS (WINDWARD): N/A
 8. SCREEN WALLS (LEEWARD): N/A
 9. SOLID ROOF: 20 PSF
 10. FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH: N/A
 11. FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6
 12. LIVE LOAD: 300 lb.
 13. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS, 200 lb.
 14. VERTICAL DOWNLOAD ON SOLID ROOF: 10 PSF
 15. EXISTING SLAB (MIN 4" DEPTH 36" EDGE DISTANCE AND FOOTING, MIN. 12"x12" LINEAL FOOTER) MEETS THE REQUIREMENTS TO RESIST THE UPLIFTS FOR THE PROPOSED STRUCTURE.
 16. SCREEN ROOF TYPE: N/A
 17. SOLID ROOF TYPE: 3"x48"x0.024" ELITE EPS COMPOSITE PANEL ROOF 1lb FOAM DENSITY, FLORIDA PRODUCT APPROVAL, FL 7561-R5.

ALUMINUM STRUCTURAL MEMBERS	PAGE INDEX:
HOLLOW SECTIONS	S-1 GENERAL NOTES
2 x 2:-----2" x 2" x 0.044"	S-2 DRAWING
2 x 3:-----2" x 3" x 0.050"	S-3 DETAILS
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"	



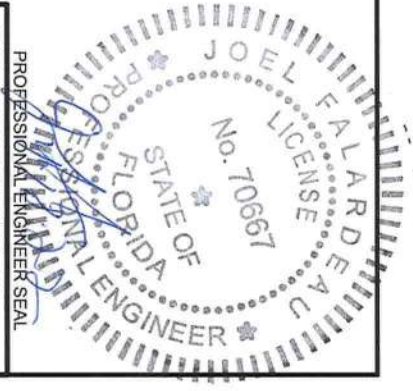
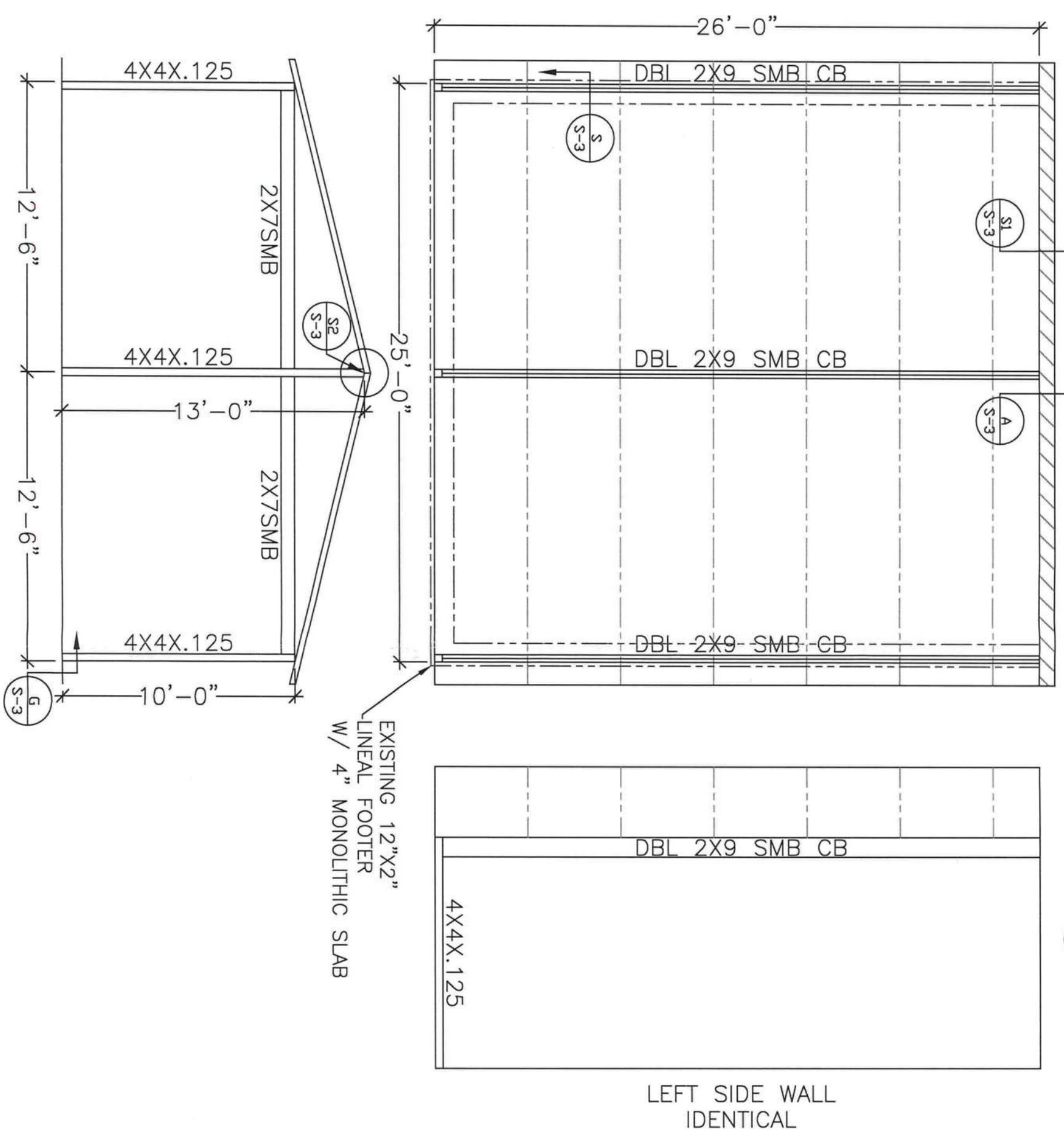
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DATE:	04/13/2022
DRAWN BY:	BB
REVISION:	DATE:
RO 1	
RO 2	
RO 3	
RO 4	
Job#	22_0408_105
PROJECT ADDRESS:	KALB 614 NW HARRIS LAKE DR LAKE CITY, FL 32055
CONTRACTOR:	LAKE CITY, FL 32055 LAKE LAKE ALUMINUM
NOTES	S-1

⊙ F S-3 DOOR LOCATION MAY BE DETERMINED IN THE FIELD BY THE CONTRACTOR.



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DATE: 04/13/2022

DRAWN BY: BB

REVISION: DATE:

RO 1

RO 2

RO 3

RO 4

Job# 22_0408_105

PROJECT ADDRESS:

KALB

614 NW HARRIS LAKE DR

LAKE CITY, FL 32055

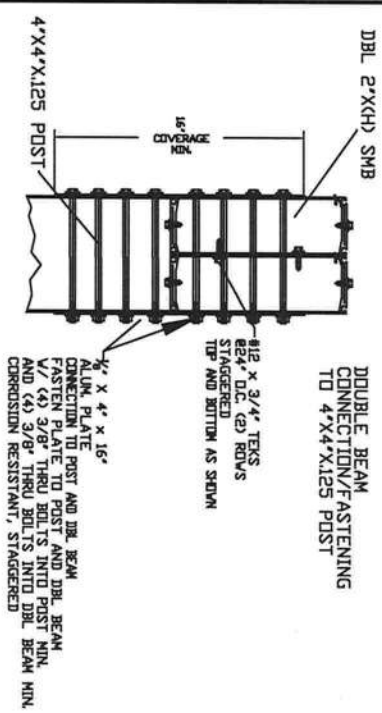
CONTRACTOR:

LAKE SIDE ALUMINUM

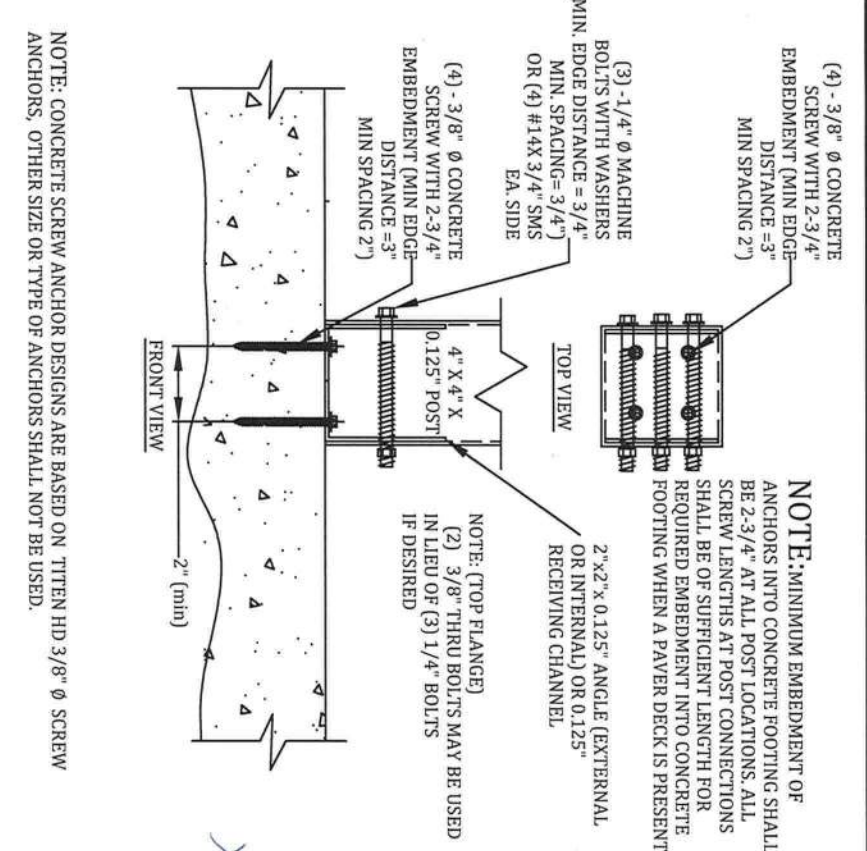
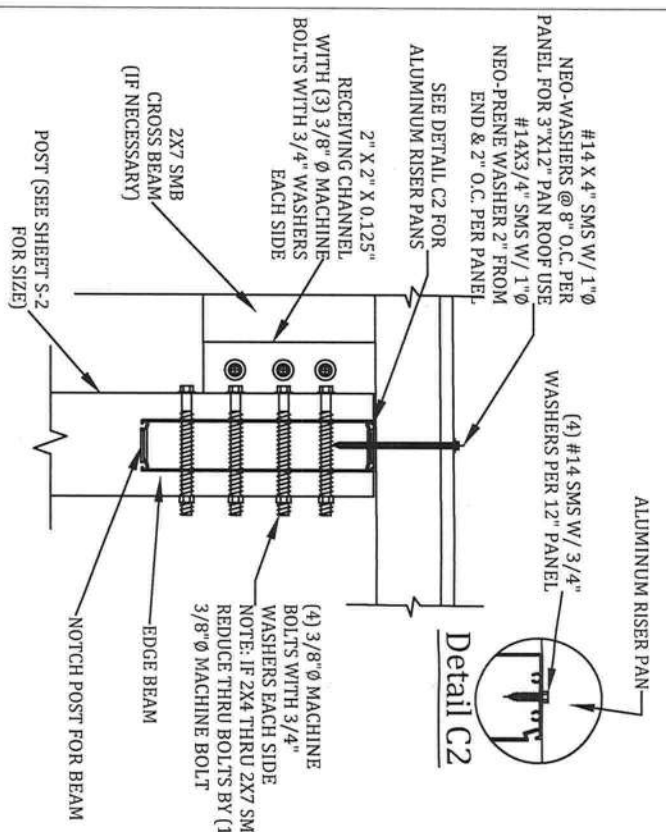
FLOOR PLAN

S-2

PATIO COVER NO SCREEN

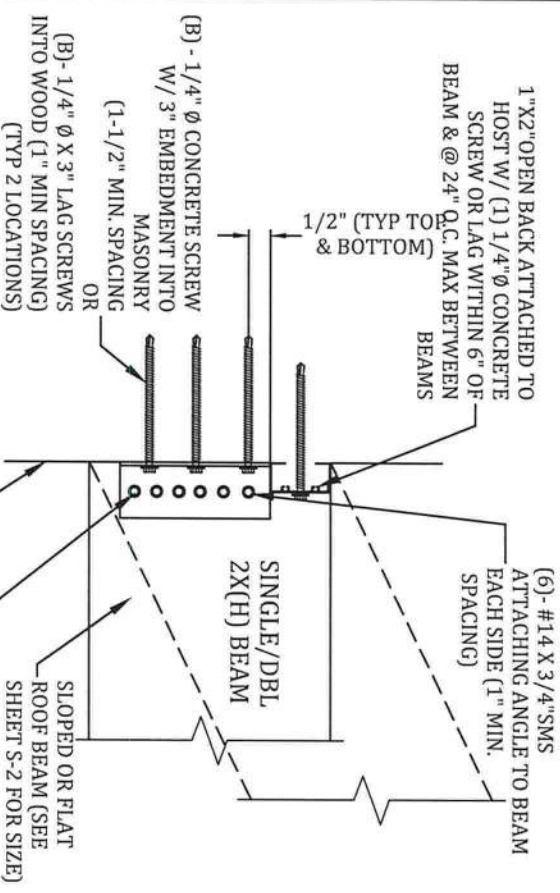


S-3 ROOF PANEL TO EDGE OR INTERMEDIATE BEAM CONNECTION DETAIL
SCALE: NTS

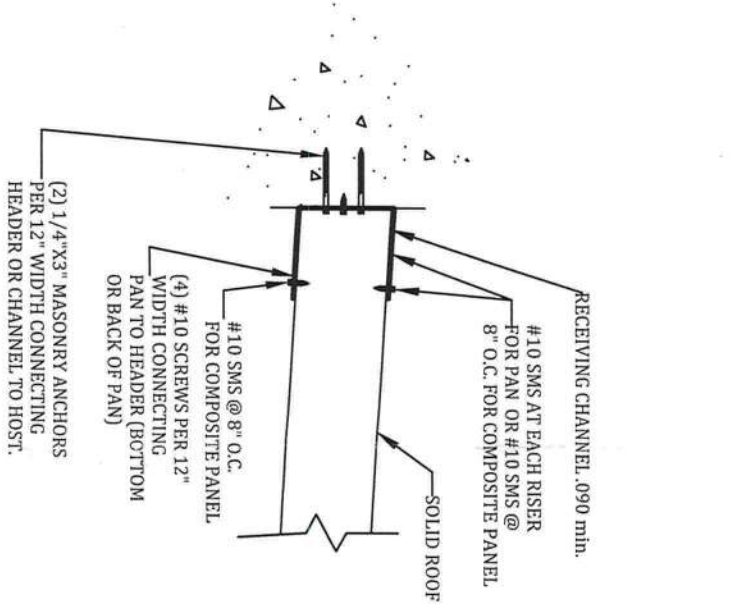


S-3 4"X4"X0.125" POST CONNECTION DETAIL
SCALE: NTS

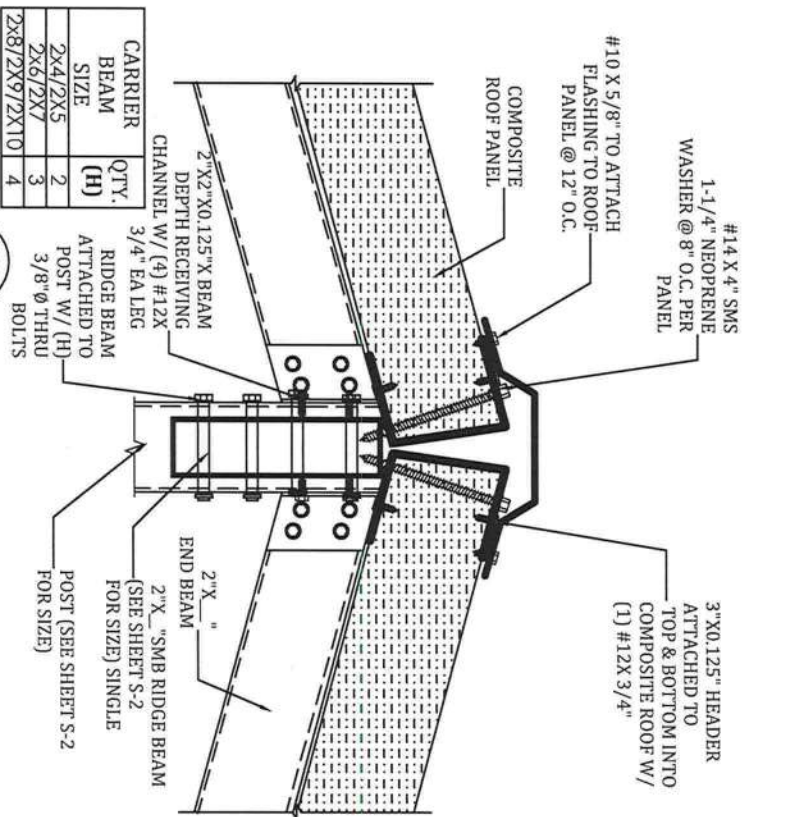
BEAM	"B"
2x4	2
2x5	2
2x6	2
2x7	3
2x8	3
2x9	3
2x10	4



A BEAM TO HOST TO CONNECTION DETAIL
SCALE: NTS

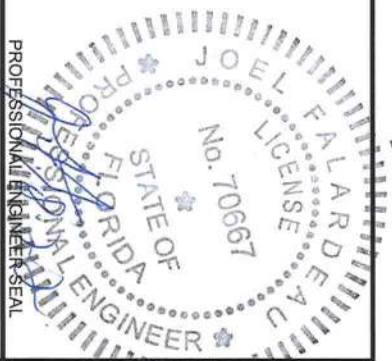


S1 ROOF PANEL TO WALL CONNECTION DETAILS
SCALE: NTS



S2 ROOF PANELS AT RIDGE CONNECTION
SCALE: NTS

FOR DBL RIDGE BEAM REFER TO DBL BEAM TO POST DETAIL (TOP LEFT)



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DETAILS
S-3