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
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".
   AIR ENTRAINING +/- 1% - ASTM C 260.
   WATER REDUCING AGENT - ASTM C 494.
   CLEAN POTABLE WATER.
   OTHER ADMIXTURES SHALL NOT BE PERMITTED.
9. METAL WELDED WIRE SHALL CONFORM TO ASTM A 185.
10. PREPARE & PLACE CONCRETE ACCORDING TO AMERICAN CONCRETE INSTITUTE MANUAL STANDARD PRACTICE, PART 1, 2, & 3 ALONG WITH HOT WEATHER CONDITIONS RECOMMENDATIONS.
11. 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.

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 6TH 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/ACRYLIC/GLASS 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.
   (ACRYLIC/GLASS WINDBREAKERS INCLUDED)

D. FASTENERS:

1. 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.
2. HEX BOLTS HAS TO BE ASTM A 325, PLATED WITH STANDARD FLAT WASHERS AND NUTS.
3. ALL CONCRETE SCREWS SHALL BE, SIMPSON, HILTI, RAWL, TAPCON, REDHEAD, DYNABOLT, OR APPROVED EQUAL.
4. ALL METAL TIES AND ASSOCIATED ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
5. ALL LAG BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 8X BOLT DIAMETER INTO STRUCTURAL FRAMING (G=.42 MIN.).
6. 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.
7. 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.
8. 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.
9. ALL FASTENERS SHALL COMPLY WITH ASTM A153.
10. ALL CONNECTORS SHALL COMPLY WITH ASTM A653 CLASS G-185.
11. FOR SMS, THE MINIMUM CENTER-TO-CENTER SPACING SHALL BE 3/4" AND MINIMUM CENTER-TO-EDGE SHALL BE 1/2" UNLESS NOTED OTHER WISE.

E. REFERENCE STANDARDS:

ASTM E 119
ASTM E 1300
ASCE 7 -10
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 (CHAPTERS 16, 20 AND 23)
6TH EDITION
CURRENT ALUMINUM DESIGN MANUAL

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.

1. TYP -- TYPICAL
2. SIM -- SIMILAR
3. UON -- UNLESS OTHERWISE NOTED
4. CONT -- CONTINUOUS
5. VIF -- VERIFY IN FIELD

G. RESPONSIBILITY:

1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS, NOTIFYING ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, FABRICATED ITEMS, OR ACTUAL FIELD CONDITIONS.
3. THESE DRAWINGS REPRESENT THE ACCEPTABILITY OF THE 'SUNROOM' ROOM ADDITION ELEMENTS AS PROVIDED BY THE CONTRACTOR.
4. ALL DETAILS ON THESE DRAWINGS ARE ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND MANUFACTURER.
5. ANY DETAILS NOT SHOWN ARE TO BE ENGINEERED BY A LICENSED P.E. IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.

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 6TH EDITION R 4501.17.1 IN ITS ENTIRETY.
3. EMERGENCY ESCAPE & RESCUE OPENING PER FBC R310.1 SHALL BE VERIFIED BY CONTRACTOR & BUILDING OFFICIAL
4. DOOR LOCATIONS MAY BE DETERMINED IN THE FIELD BY CONTRACTOR.
5. IF PAVERS ARE UNDER ALUMINUM MEMBERS THEY SHALL HAVE EPOXY ADHESIVE TO CONCRETE OR IF USING GROUT, ENSURE BONDING AGENT IS USED FIRST.
6. SCREENING MATERIAL SHALL BE 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH ONLY UNLESS NOTED ON DRAWING S-2.
7. 1"X2"X.045 NON-STRUCTURAL MEMBERS SHALL BE ATTACHED TO HOST WITH 1/4" DIAMETER X 1-3/4" EMBEDMENT & 24" O.C. MASONRY SCREW FOR CONCRETE & EQUIVALENT SIZE WOOD SCREW WHEN IN WOOD & #10 X 1/2" EMBEDMENT SMS OR TEK SCREWS IN ALUMINUM MEMBERS TYPICAL.

JOB DESCRIPTION: SCREEN ENCLOSURE

DESIGN DATA:

1. ULTIMATE DESIGN WIND SPEED Vult, (3 SECOND GUST): 130 MPH
   NOMINAL DESIGN WIND SPEED Vasd: 110 MPH
2. RISK CATEGORY : 1
3. WIND EXPOSURE : B
4. WIND LOADS:
   SCREEN ROOF: 6 PSF
   SCREEN WALLS: 23 PSF
   SOLID ROOF (MWFRS): N/A
5. FACTOR APPLIED TO SCREEN WIND LOADS FOR 18X14X0.013 OR EQUIVALENT DENSITY SCREEN MESH: 0.88
6. FACTOR APPLIED TO SCREEN WIND LOADS FOR ALLOWABLE STRESS DESIGN: 0.6
7. LIVE LOAD:
   300 lb. VERTICAL DOWNLOAD ON PRIMARY SCREEN ENCLOSURE MEMBERS.
   200 lb. VERTICAL DOWNLOAD ON SCREEN ENCLOSURE PURLINS.
8. EXISTING CONCRETE SLAB AND OR FOOTING SHALL BE ADEQUATE TO RESIST THE UPLOADS FOR THE PROPOSED STRUCTURE.
9. SCREEN ROOF TYPE: GABLE HIP
10. SOLID ROOF TYPE: N/A

ALUMINUM STRUCTURAL MEMBERS

HOLLOW SECTIONS

2 x 2: ----------2" x 2" x 0.046"
3 x 2: ----------3" x 2" x 0.050"
2 x 3: ----------2" x 3" x 0.050"
2 x 3: ----------2" x 3" x 0.070"
2 x 4: ----------2" x 4" x 0.050"
2 x 5: ----------2" x 5" x 0.050"

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 Snap:----------2" x 2" x 0.045"
2 x 3 Snap: ----------2" x 3" x 0.050"
2 x 4 Snap:---------- 2" x 4" x 0.045"

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"

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-10, & FBC 6TH EDITION

JOEL FALARDEAU LICENSE No. 70667 STATE OF FLORIDA PROFESSIONAL ENGINEER
8.13.19

PROFESSIONAL ENGINEER SEAL

ENGINEER OF RECORD

☐ David W. Smith P.E.
FLORIDA LICENSE NUMBER: 53608

☐ Thomas L. Hanson P.E.
FLORIDA LICENSE NUMBER: 38654

☐ Myron Max Neal P.E.
FLORIDA LICENSE NUMBER: 86663

☒ Joel Falardeau P.E.
FLORIDA LICENSE NUMBER: 70667

☐ Erik Stuart P.E.
FLORIDA LICENSE NUMBER: 77605

FBC Plans & Engineering Services, Inc.
6272 Abbott Station Drive Unit 101
Zephyrhills, fl. 33542
Phone: (813)788-5314
Fax: 1-(866)-824-7894
Email: erb@fbcplans.com
Website: www.fbcplans.com
C.O.A. - #29054

DATE: 08-13-2019

DRAWN BY: BM

REVISION:	DATE:
RO 1	
RO 2	
RO 3	

PROJECT ADDRESS:

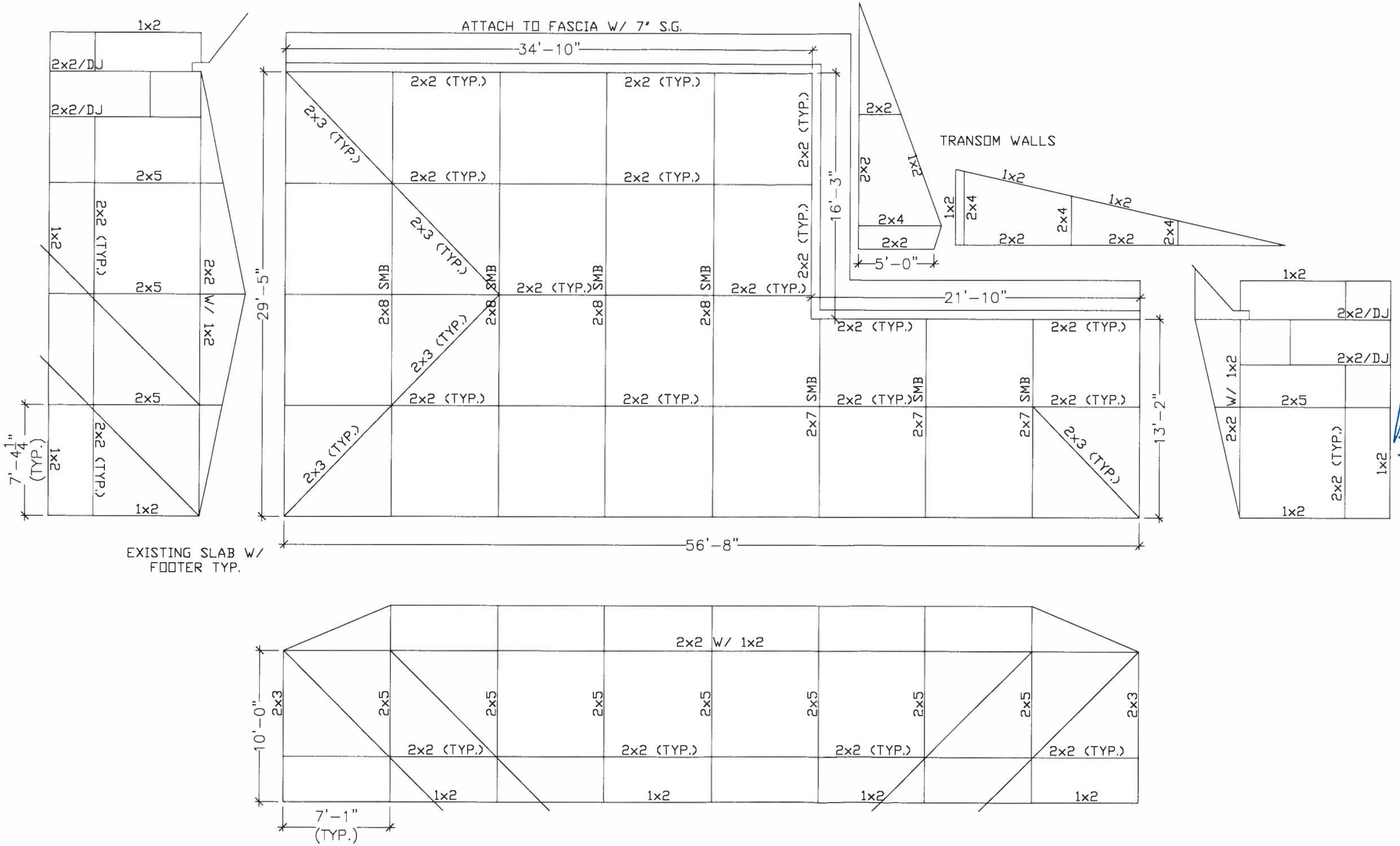
LANGSTON
591 MANDIA DRIVE
LAKE CITY, FL

CONTRACTOR:

LAKESIDE ALUMINUM, INC.

NOTES

S-1



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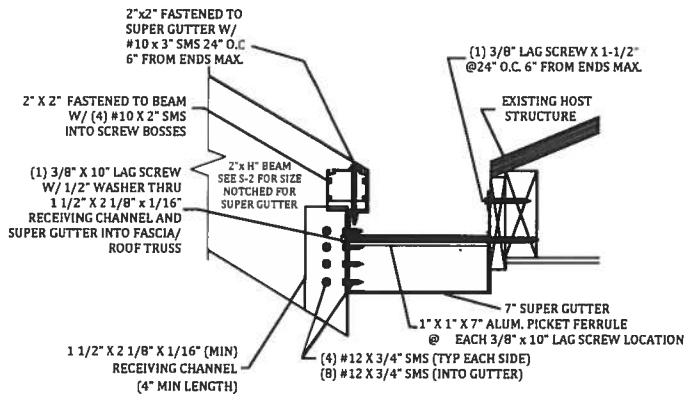
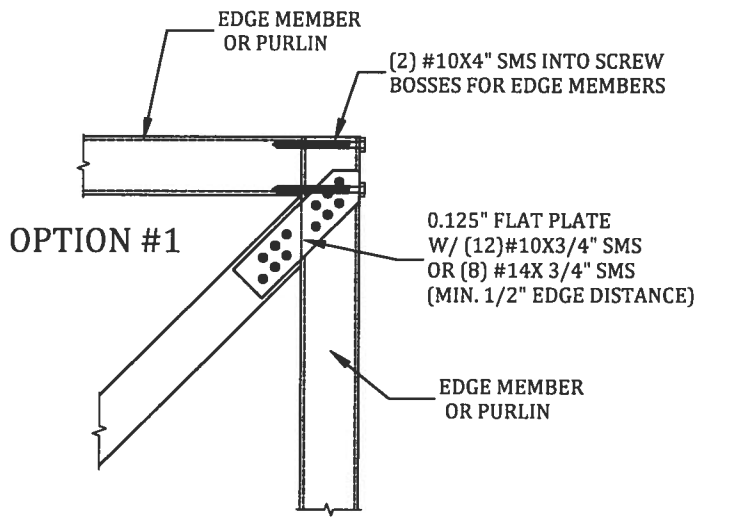
ELEVATIONS

S-2

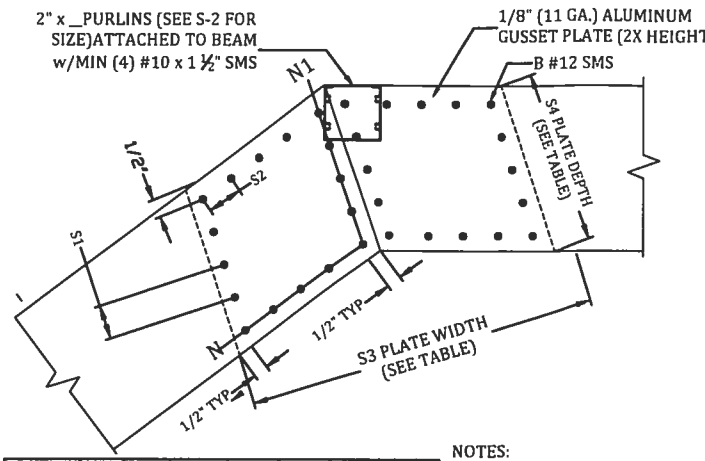


NOTES:
1. A 7" SUPER GUTTER MAY BE USED PROVIDED GUTTER BRACKET LENGTH IS INCREASED 2" IN LENGTH.
2. THE HOST STRUCTURE SHALL HAVE AT LEAST A 2"X4" FASCIA AND ROOF TRUSS SYSTEM. CONTRACTOR SHALL VERIFY THIS AND IF SMALLER- CONTRACTOR SHALL BRING STRUCTURE UP TO A 2"X4" FASCIA AND ENSURE LESS THAN A 2'-0" OVERHANG.

A / S-3 GUTTER BRACKET & BEAM ATTACHMENT DETAIL
N.T.S.



ROOF BRACING CONNECTION DETAIL
SCALE: N.T.S.



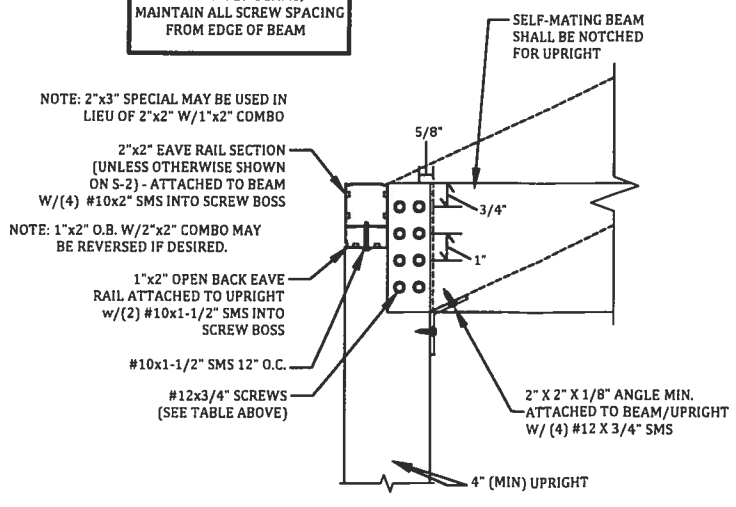
BEAM	"B"	"N"	"N1"	"S1"	"S2"	"S3"	"S4"
2X4	14	4	4	1"	1"	8"	4"
2X5	16	5	4	1 3/8"	1 1/4"	10"	5"
2X6	18	6	5	1"	1 3/16"	12"	6"
2X7	20	6	6	1"	1"	14"	7"
2X8	24	7	7	1 3/8"	1 3/8"	16"	8"
2X9	32	10	8	1 5/16"	1 1/8"	18"	9"
2X9 H	32	10	8	1 5/16"	1 1/8"	18"	9"
2X10	40	13	9	1 1/4"	7/8"	20"	10"

NOTES:
1. "N" NUMBER OF SCREWS IN ANY DIRECTION.
2. TOTAL NUMBER OF SCREWS PER JOINT EQUALS 4 TIMES "B".
3. PLATE WIDTH SHALL BE DETERMINED FROM ANGLE OF BEAM AND MIN. SPACE REQUIRED.
4. GUSSET PLATES EXTERNAL/INTERNAL
5. INTERNAL SCREWS FOR PURLIN CONNECTION MAY BE INCLUDED IN TOTAL NUMBER OF SCREWS.
6. GABLE SPLICE WILL HAVE THE SAME PATTERN.

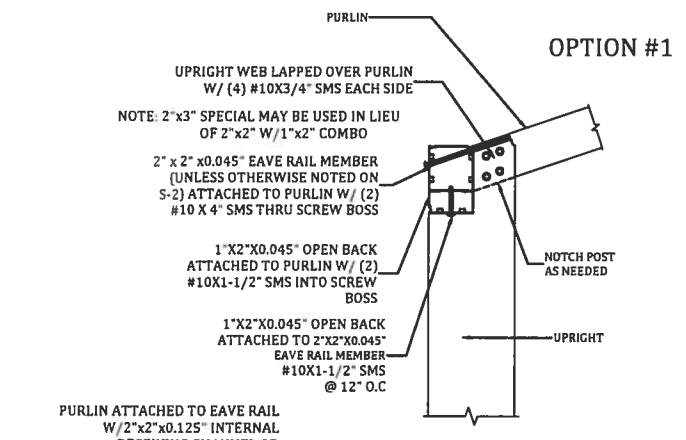
#12 SMS BEAM SPLICE GUSSET DETAIL
SCALE: NTS

BEAM	SCREWS
2" X 4" SMB	8
2" X 5 "SMB	8
2" X 6 "SMB	10
2" X 7" SMB	10
2" X 8" SMB	12
2" X 9" SMB	12
2" X 10" SMB	14

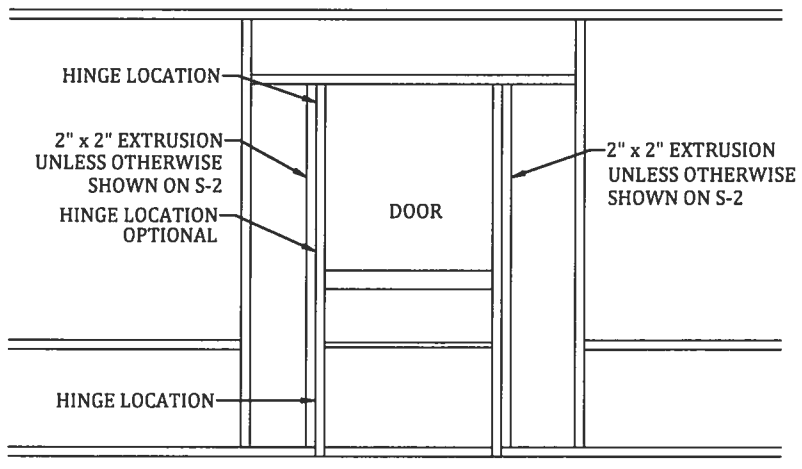
FOR SLOPED BEAMS, MAINTAIN ALL SCREW SPACING FROM EDGE OF BEAM



UPRIGHT TO BEAMCONNECTION - ALL WIND ZONES
SCALE: NTS



SLOPED OR FLAT PURLIN UPRIGHT LAP DETAIL
SCALE: NTS



NOTES:
1. HINGES SHALL BE ATTACHED TO STRUCTURE W/ (4) #10 x 5/8" SMS MINIMUM.
2. DOOR SHALL BE ATTACHED TO ENCLOSURE w/(2) HINGES MINIMUM.
3. HINGES SHALL BE ATTACHED TO DOOR WITH (3)#10 x 5/8" SMS. FASTEN A 1" x 2" x 0.044" TO UPRIGHT W/#12 x 2" SMS @ 12" O.C. AND WITHIN 3" FROM END OF THE UPRIGHT.

TYPICAL SCREEN DOOR CONNECTION DETAIL
SCALE: NTS

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RO 1	
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RO 3	

PROJECT ADDRESS:
LANGSTON
591 MANDIA DRIVE
LAKE CITY, FL

CONTRACTOR:
LAKESIDE ALUMINUM, INC.

DETAILS
S-3

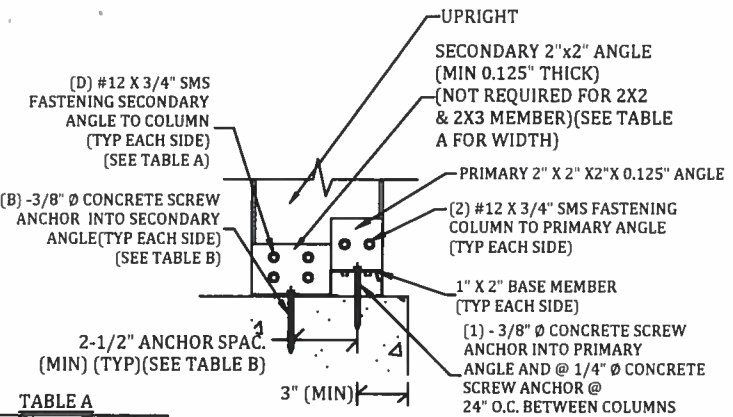


TABLE A

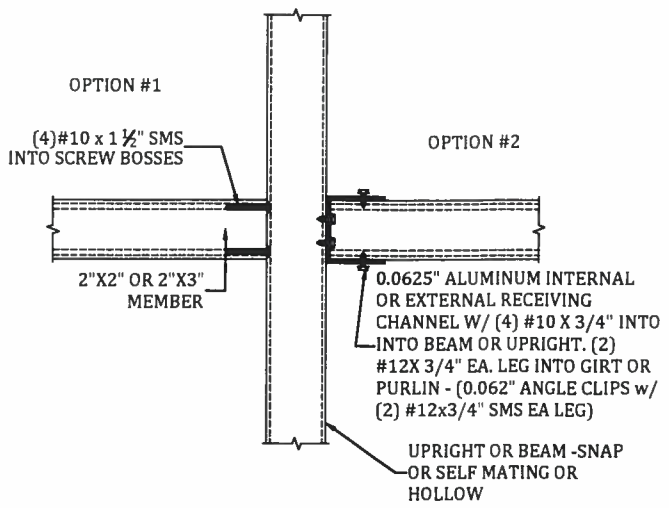
Column Size	WIDTH OF SECONDARY 2"x2" ANGLE	D
2x2	NONE	0
2x3	NONE	0
2x4	2"	2
2x5	3"	3
2x6	4"	4
2x7	5"	5
2x8	6"	6
2x9	7"	7
2x10	8"	8

TABLE B

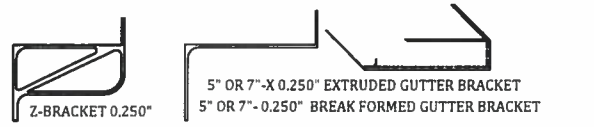
Column Size	1/4" Ø Concrete Screw Anchor		Column Size	3/8" Ø Concrete Screw Anchor	
	B	Min. Spa		B	Min. Spa
2x2	0	0"	2x5	1	3"
2x3	0	0"	2x6	1	4"
2x4	1	2.5"	2x7	1	5"
			2x8	2	3"
			2x9	2	4"
			2x10	2	4.5"

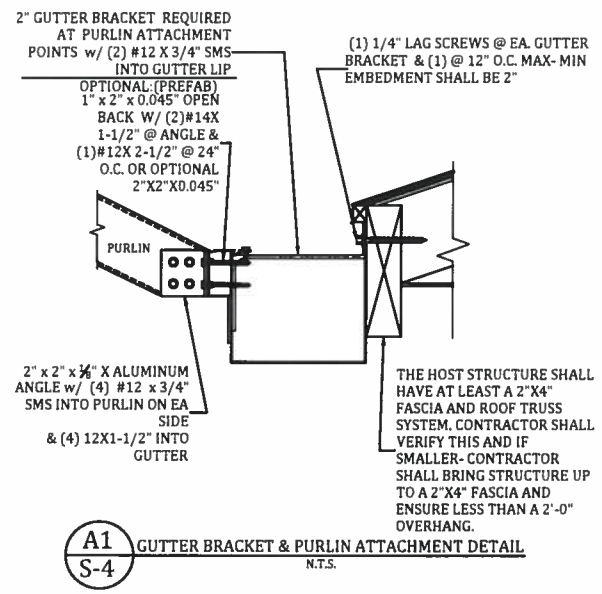
NOTES:
1. NUMBER OF ANCHORS "B" IS EACH SIDE INTO THE SECONDARY ANGLE AND DOES NOT INCLUDE THE ANCHOR INTO THE 1X2.
2. MINIMUM EMBEDMENT OF ANCHORS INTO CONCRETE FOOTING SHALL BE 2-3/4" AT AT ALL UPRIGHT LOCATIONS. ALL SCREW LENGTHS AT UPRIGHT CONNECTIONS SHALL BE OF SUFFICIENT LENGTH FOR REQUIRED EMBEDMENT INTO CONCRETE FOOTING WHEN A PAVER DECK IS PRESENT.
3. CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON FASTENERS APPROVED ON THE S-1 NOTES PAGE.
4. 2X3W/1X2 CORNER POST SHALL REQUIRE SAME BASE CONNECTIONS AS 2X4 SHOWN IN TABLE.

2" x 2" OR LARGER UPRIGHT TO CONCRETE W/WO PAVER DETAILS
SCALE: NTS
CONNECTION MAY BE USED FOR TOP AND BOTTOM WHEN APPLICABLE

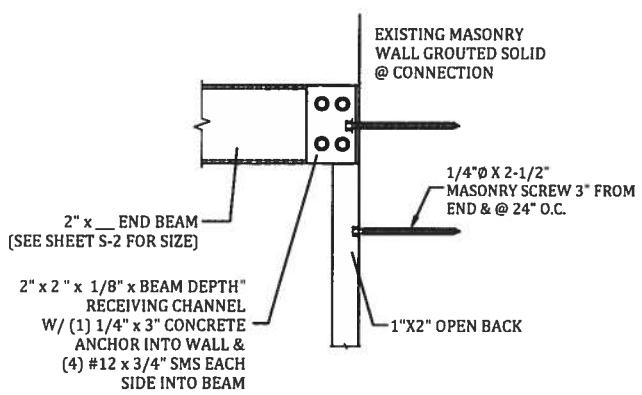


PURLIN OR GIRT TO BEAM OR POST DETAIL
SCALE: NTS

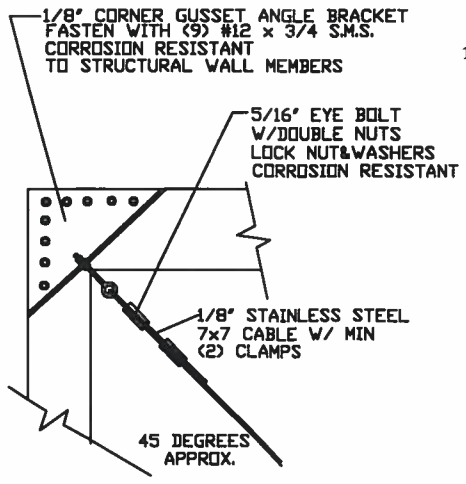


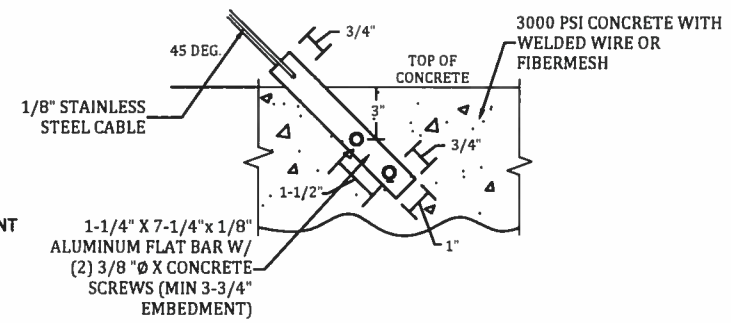


A1 / S-4 GUTTER BRACKET & PURLIN ATTACHMENT DETAIL
N.T.S.



END BEAM TO HOST STRUCTURE DETAIL
SCALE: NTS





NOTE: CONCRETE SCREW ANCHOR DESIGNS ARE BASED ON TITEN HD 3/8" Ø SCREW ANCHORS WITH AN ALLOWABLE SHEAR CAPACITY OF 880 LBS. W/ EDGE DISTANCE AND SPACING SHOWN.
FOR 4" CONCRETE SLAB ONLY : USE 3" A.S.T.M. A-36 STEEL CLIP WITH 2-3/8" X 3" SLEEVE ANCHORS TO CONCRETE DECK. THIS CLIP MAY ALSO BE USED ON TOP OF CONCRETE SLAB. MAINTAIN 2" MIN. EDGE DISTANCE.
REFER TO AAF GUIDE TO ALUM. CONST. IN HIGH WIND AREAS, PAGE 1-47 (C10 /1)

CABLE TO FOUNDATION CONNECTION DETAIL
SCALE: NTS

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-10, & FBC 6TH EDITION

JOEL FALARD LICENSE No. 70357 STATE OF FLORIDA PROFESSIONAL ENGINEER
8-13-19
PROFESSIONAL ENGINEER SEAL

ENGINEER OF RECORD
David W. Smith P.E.
FLORIDA LICENSE NUMBER: 53608
Thomas L. Hanson P.E.
FLORIDA LICENSE NUMBER: 38654
Myron Max Neal P.E.
FLORIDA LICENSE NUMBER: 86663
☒ Joel Falardeau P.E.
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Erik Stuart P.E.
FLORIDA LICENSE NUMBER: 77605
FBC Plans & Engineering Services, Inc.
6272 Abbott Station Drive Unit 101
Zephyrhills, fl. 33542
Phone: (813)788-5314
Fax: 1-(866)-824-7894
Email: erb@fbcplans.com
Website: www.fbcplans.com
C.O.A. - #29054

DATE: 08-13-2019

DRAWN BY: BM

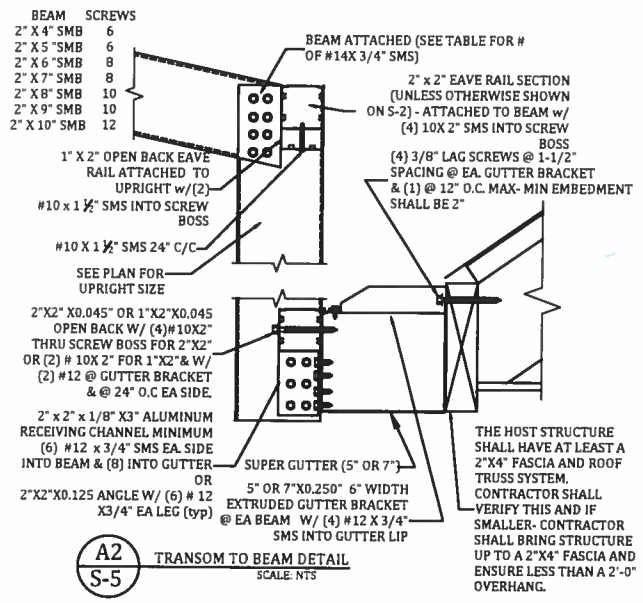
REVISION:	DATE:
RO 1	
RO 2	
RO 3	

PROJECT ADDRESS:
LANGSTON
591 MANDIA DRIVE
LAKE CITY, FL

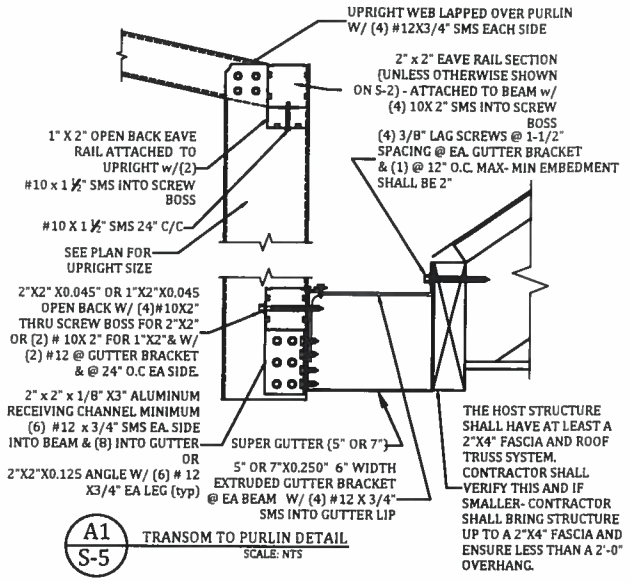
CONTRACTOR:
LAKESIDE ALUMINUM, INC.

DETAILS
S-4

BEAM	SCREWS
2" X 4" SMB	6
2" X 5 "SMB	6
2" X 6 "SMB	8
2" X 7" SMB	8
2" X 8" SMB	10
2" X 9" SMB	10
2" X 10" SMB	12

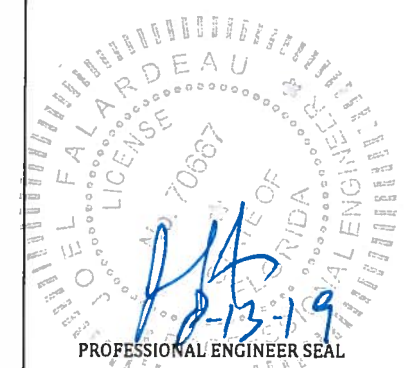


A2 / S-5 TRANSOM TO BEAM DETAIL
SCALE: NTS



A1 / S-5 TRANSOM TO PURLIN DETAIL
SCALE: NTS

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-10, & FBC 6TH EDITION



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DETAILS
S-5