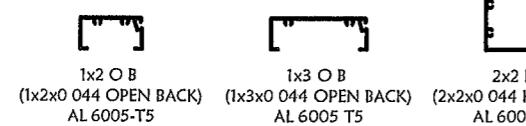


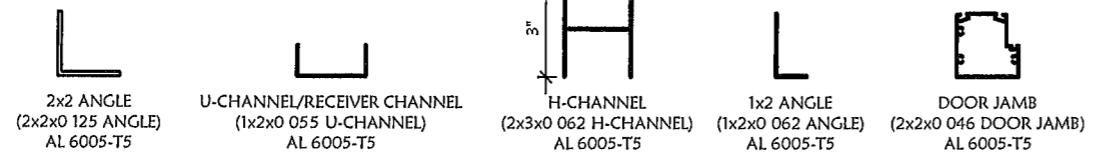
1x2 O B (1x2x0 044 OPEN BACK) AL 6005-T5  
 1x3 O B (1x3x0 044 OPEN BACK) AL 6005-T5  
 2x2 H (2x2x0 044 HOLLOW) AL 6005-T5  
 2x3 H (2x3x0 044 HOLLOW) AL 6005-T5  
 2x4 H (2x4x0 044 HOLLOW) AL 6005-T5



1x2 O B (1x2x0 044 OPEN BACK) AL 6005-T5  
 1x3 O B (1x3x0 044 OPEN BACK) AL 6005-T5  
 2x2 H (2x2x0 044 HOLLOW) AL 6005-T5  
 2x3 H (2x3x0 044 HOLLOW) AL 6005-T5  
 2x4 H (2x4x0 044 HOLLOW) AL 6005-T5

SELF-MATING BEAM (SMB) NAMING CONVENTION	
MARK	PROPER NAME
2x4 SMB	2x4x0 046x0 100 Self-Mating Beam
2x5 SMB	2x5x0 050x0 116 Self-Mating Beam
2x6 SMB	2x6x0 050x0 120 Self-Mating Beam
2x7 SMB	2x7x0 055x0 120 Self-Mating Beam
2x8 SMB	2x8x0 072x0 224 Self-Mating Beam
2x9 SMB	2x9x0 072x0 224 Self-Mating Beam
2x10 SMB	2x10x0 092x0 389 Self-Mating Beam

SELF-MATING BEAM HALF-SHELL (AL 6005-T5)



2x2 ANGLE (2x2x0 125 ANGLE) AL 6005-T5  
 U-CHANNEL/RECEIVER CHANNEL (1x2x0 055 U-CHANNEL) AL 6005-T5  
 H-CHANNEL (2x3x0 062 H-CHANNEL) AL 6005-T5  
 1x2 ANGLE (1x2x0 062 ANGLE) AL 6005-T5  
 DOOR JAMB (2x2x0 046 DOOR JAMB) AL 6005-T5

## 1 Aluminum Self-Mating Beam (SMB) Naming Convention

S-1.0

SCALE: 3' = 1'-0"

COLUMN SCHEDULE (EXPOSURE "B")									
COLUMN MEMBER TYPE	TRIBUTARY WIDTH	EFFECTIVE HEIGHT (FT.)							
		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
2x2 H	6.2	5.8	5.5	5.1	4.8	4.6	4.2	3.9	3.3
2x3 H	8.1	7.8	7.3	6.9	6.7	6.4	6.1	5.9	5.5
2x4 H	9.0	8.7	8.2	7.8	7.4	7.0	6.8	6.1	5.8
2x5 SMB	13.9	13.1	12.4	11.8	11.3	10.9	10.5	10.1	9.8
2x6 SMB	17.2	16.2	15.3	14.6	14.0	13.5	13.0	12.5	12.1
2x7 SMB	19.6	18.5	17.6	16.7	16.0	15.4	14.8	14.3	13.9
2x8 SMB	22.0	20.7	19.7	18.8	18.0	17.3	16.6	16.1	15.5
2x9 SMB	30.3	28.9	27.4	26.1	25.0	24.0	23.2	22.4	21.7
2x10 SMB	36.0	34.6	33.2	31.6	30.3	29.1	28.0	27.1	26.2
2x5 TFB	18.2	17.1	16.3	15.5	14.8	14.2	13.7	13.3	12.8
2x7 TFB	24.2	22.8	21.6	20.6	19.7	18.9	18.2	17.6	17.1
2x9 TFB	32.8	30.9	29.3	27.9	26.7	25.7	24.8	23.9	23.2

NOTES:  
 1 THIS TABLE APPLIES TO BEARING & NON-BEARING WALLS FOR HORIZONTAL WIND LOADS IN DESIGN.  
 2 HEIGHTS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

PURLIN SCHEDULE (EXPOSURE "B")									
MEMBER	TRIBUTARY WIDTH	EFFECTIVE SPAN (FT.)							
		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
2x2x0.044	8.0	8.0	8.0	8.0	8.0	7.9	7.7	7.7	7.5
2x3x0.050	13.7	13.1	12.8	12.4	12.0	11.7	11.4	11.1	10.8
2x3x0.060	15.3	14.7	14.3	13.8	13.4	12.9	12.4	11.9	11.4
2x4x0.050	17.0	17.3	16.8	16.1	15.8	15.1	14.4	13.7	13.0

NOTES:  
 1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

CARRY BEAM SCHEDULE FOR SCREEN ENCLOSURE ROOFS (EXPOSURE "B")										
COLUMN MEMBER TYPE	TRIBUTARY WIDTH	EFFECTIVE SPAN (FT.)								
		8.0	12.0	20.0	24.0	30.0	34.0	40.0	44.0	48.0
2x4 SMB	16.4	14.1	11.7	10.9	9.6	9.1	8.4	8.0	7.7	7.3
2x5 SMB	20.1	17.4	14.7	13.7	12.3	11.5	10.7	10.2	9.8	9.3
2x6 SMB	22.4	20.4	17.2	15.8	14.1	13.2	12.2	11.7	11.2	10.7
2x7 SMB	25.4	23.4	19.5	18.3	16.4	15.3	14.2	13.5	12.9	12.4
2x8 SMB	31.6	28.7	24.1	22.7	20.9	19.6	18.2	17.3	16.5	15.9
2x9 SMB	34.3	31.6	26.6	25.0	22.7	21.3	19.7	18.8	18.1	17.3
2x10 SMB	42.7	39.3	33.0	31.0	28.6	27.5	25.9	24.7	23.6	22.7
2x5 TFB	24.1	22.2	18.5	17.4	15.6	14.5	13.5	12.8	12.3	11.8
2x7 TFB	30.0	27.3	22.9	21.6	19.9	18.6	17.3	16.4	15.7	15.1
2x9 TFB	36.3	33.4	28.1	26.4	24.3	23.4	22.0	21.0	20.1	19.3

NOTES:  
 1 SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.

KNEE BRACE SCHEDULE (EXPOSURE "B")			
SIZE	LENGTH	QTY	PER FLANGE
2x2x0.044	UP TO 2'	2	
2x3x0.050	2' TO 4'	3	
2x4x0.050	4' TO 6'	4	
2x4x0.048 x 0.100 SMB	6' TO 7'	4	
2x6x0.050 x 0.120 SMB	7' TO 8'	6	

## General Structural Notes

### GENERAL DRAWING NOTES.

- DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED, TYPICALLY IN THE CASE OF DIMENSIONAL CONFLICT, ARCHITECTURAL DIMENSIONS GOVERN OVER STRUCTURAL DIMENSIONS, TYPICALLY.
- CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS w/ THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, & CIVIL DOCUMENTS. SCAD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCY OR OMISSION.
- THE STRUCTURE IS STABLE ONLY IN IT'S COMPLETED FORM TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, & INSTALLED BY THE CONTRACTOR, TYPICALLY

### 00200 BUILDING CODES.

- FLORIDA BUILDING CODE 2010 EDITION
- ASCE/SEI 7-10. MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

### 00500 STRUCTURAL DESIGN CRITERIA.

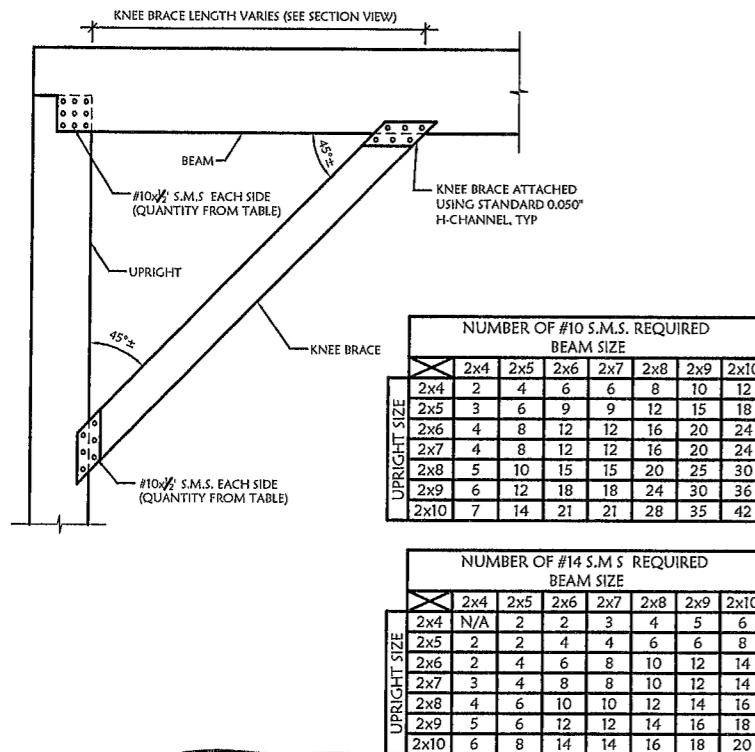
THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWING SPECIFICALLY CALL FOR DIFFERENT LOADING CRITERIA.

### GRAVITY LOADING IS TO BE UNIFORM (U.N.O.)

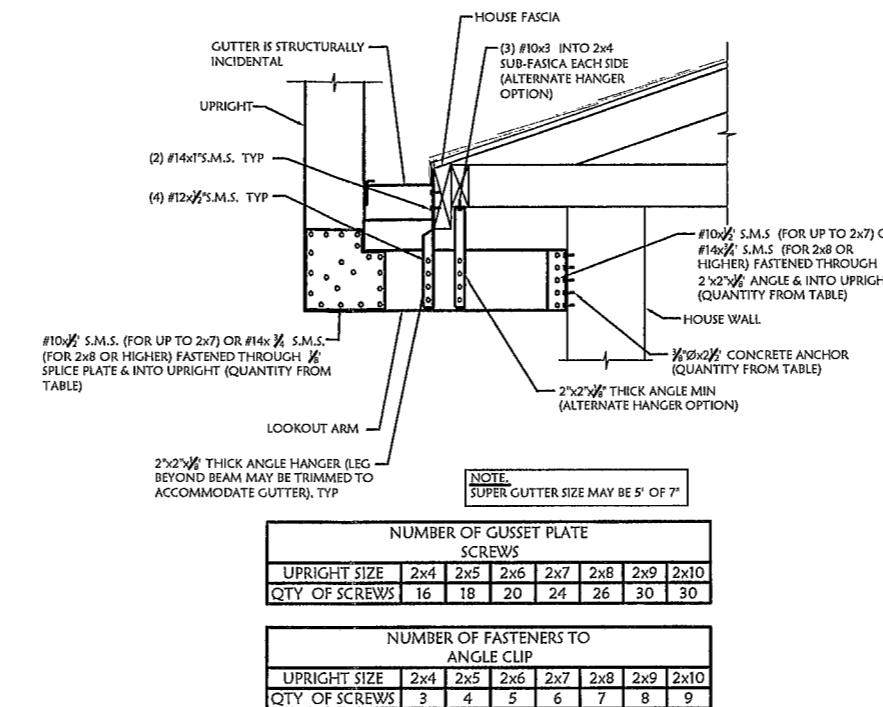
- ROOFS: 20 PSF (REDUCIBLE)

### WIND LOADING PER FLORIDA BUILDING CODE & ASCE/SEI 7

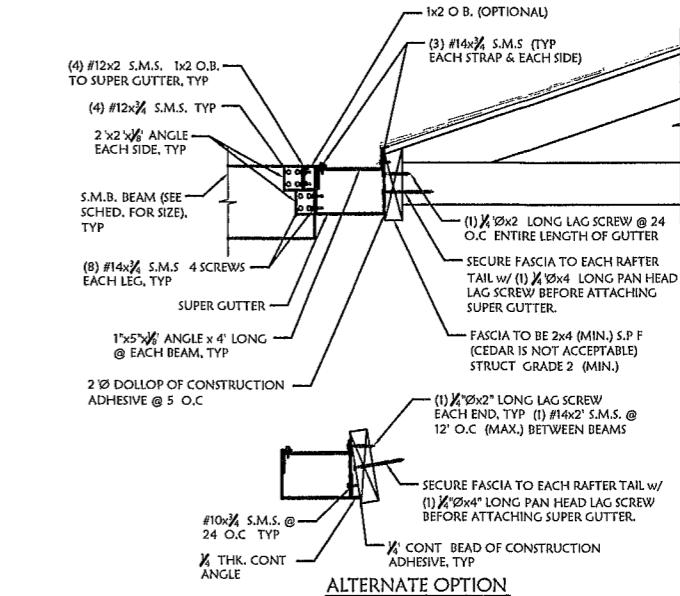
- BASIC ULTIMATE WIND SPEED ( $V_{ur}$ ) = 160 MPH (3 SECOND GUST)
- BASIC NOMINAL WIND SPEED ( $V_{ns}$ ) =



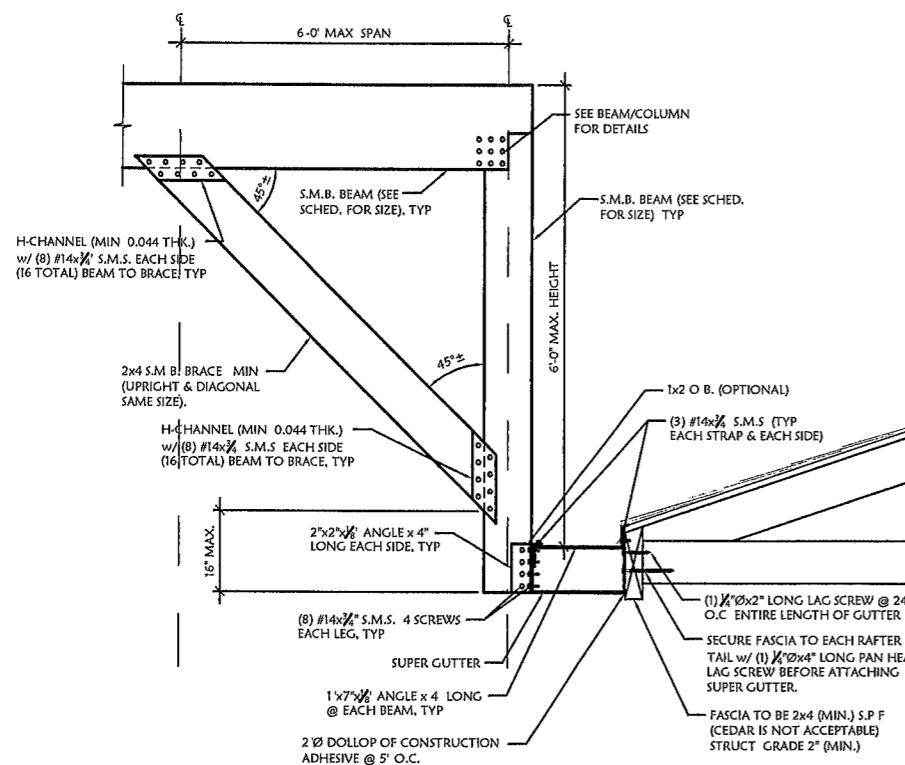
1 Typical Beam to Column Connection w/ Knee Brace  
S-2.1 SCALE 1/2' = 1-0'



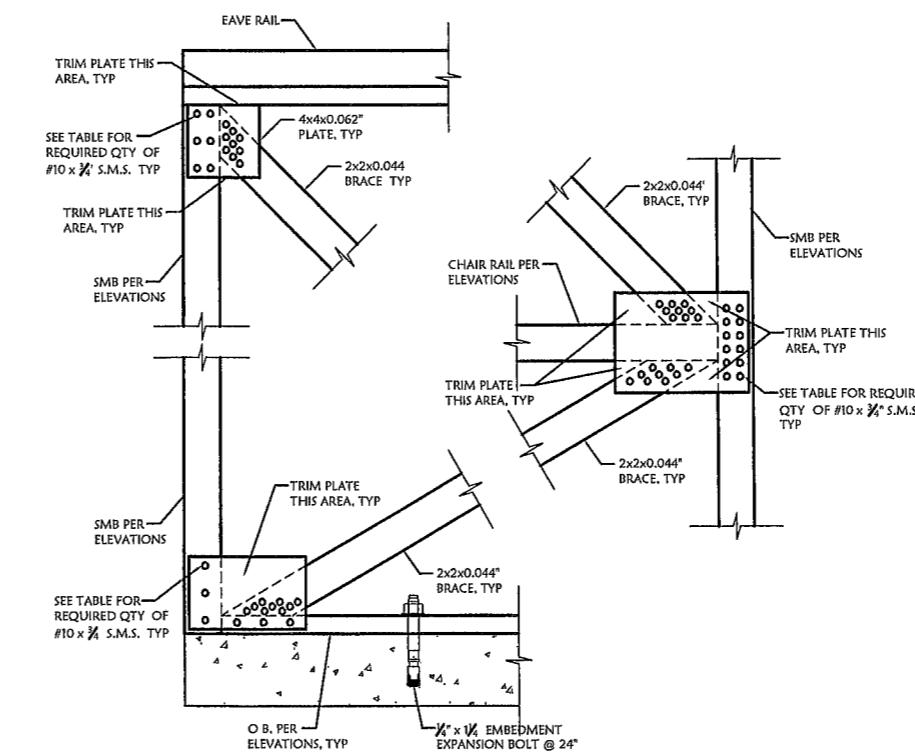
2 Lookout Arm Connection Detail  
S-2.1 SCALE 1/2' = 1-0'



3 Roof Beam to Super Gutter Connection  
S-2.1 SCALE 1/2' = 1-0'



4 Transom Upright to Super Gutter Connection Detail  
S-2.1 SCALE 1/2' = 1-0'



5 Typical K-Brace Connection Detail  
S-2.1 SCALE 1/2' = 1-0'

Structural Framing Sections & Details

Residential Pool Screen Enclosure

, Florida

Florida Pool Enclosures, Inc.



www.FloridaPoolEnclosures.com

727-442-0000 • 800-247-4424 • Fax: 727-442-0001

2989 WEST 5TH ST. #344, SUITE 900 • LONGWOOD, FL 32759

PHONE 407/693-2086 • FAX 407/692-2386

www.WSTRUCTURALCONCEPTS.COM

FLORIDA CO. NO. 2719

Approved By: RCS

Date: 01/17/14

Sheet

S-2.1

to the best of the Designers' knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

STRUCTURAL CONCEPTS  
DESIGN  
NO. 55153  
01/17/14  
S-2.1

Robert G. Scroggins, P.E.  
FL Registration No. 56153



**1 Typical Column to Concrete Connection Details** S-2.3

**2 Column Connection to Concrete Deck w/ Pavers** S-2.3

**3 Typical Front Wall to Side Wall Connections** S-2.3

**4 Diagonal Roof Bracing Plan** S-2.3

**5 Typical Super Gutter Connection to Host Structure** S-2.3

**NOTES:**

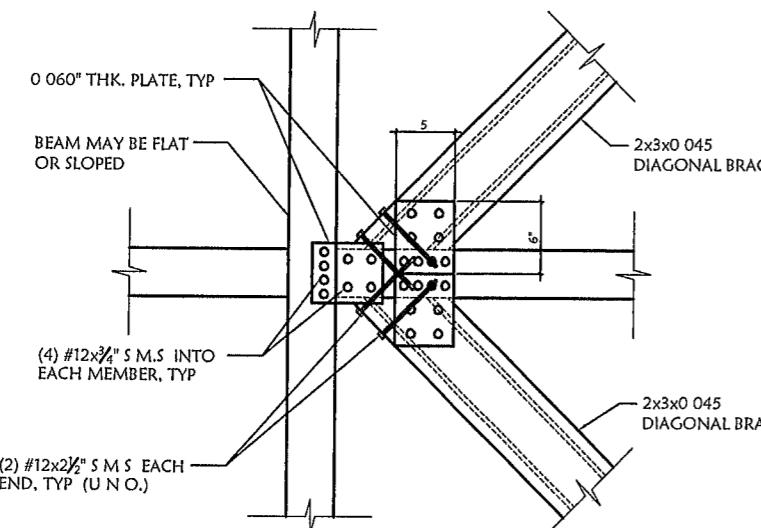
1. FASCIA SHOWN IS A PLUMB CUT FASCIA. IF THE FASCIA IS SQUARE CUT (PERPENDICULAR TO THE ROOF PITCH) THEN THE SUPER GUTTER MAY HAVE SOMETHING BEHIND IT (I.E. 'L-ANGLE' OR WOOD WEDGE) TO KEEP IT PLUMB. THIS COMPONENT IS INCIDENTAL TO THE STRUCTURAL INTENTION OF THIS DESIGN.
2. FOR A RUN OF SUPER GUTTER THAT NON-LOAD BEARING, THE MAX SPACING OF THE 3 REINFORCEMENT BRACKETS IS 6'0".
3. FOR A RUN OF SUPER GUTTER THAT HAS A STRUCTURAL OR LOAD BEARING COMPONENT ATTACHING TO IT AND THERE IS A CONTINUOUS LOAD ACROSS THE SUPER GUTTER WITHOUT PRIMARY LOAD POINTS (I.E. BEAM OR UPRIGHT) THEN THE MAXIMUM SPACING BETWEEN THE 3" REINFORCEMENT BRACKETS IS 4'8".
4. GUTTER MAY BE ATTACHED TO A CONVENTIONAL WOOD FRAMED WALL IN THE SAME MANNER THAT IS SHOWN IN THIS DETAIL. IF THE WALL IS A C.M.U. THEN REPLACE THE #140 WOOD SCREWS WITH 0.25"X1.25" TAPCON (OR EQUIVALENT). THIS CONNECTION SHALL ALSO REMAIN THE SAME FOR A SUPER GUTTER ATTACHING TO A CARRY BEAM WHERE THE WOOD LAG SCREWS ARE 0.75" S.M.S. REPLACED BY #100.
5. WHEN THE SUPER GUTTER IS BEING USED FOR STRUCTURAL PURPOSES (I.E. STRUCTURAL SUPPORT MEMBERS ATTACH TO IT) THEN THE FASTENERS THAT ATTACH TO THE FASCIA MUST PENETRATE INTO THE SUB-FASCIA AT A MINIMUM OF 1 IN EMBEDMENT.

**STRUCTURAL CONCEPTS & DESIGN**  
Project No. #14-003.1  
Drawn By: TLW  
Checked By: RCS  
Approved By: RCS  
Date: 01/17/14  
Sheet: S-2.3

**Structural Framing Sections & Details**

**Residential Pool Screen Enclosure**, Florida

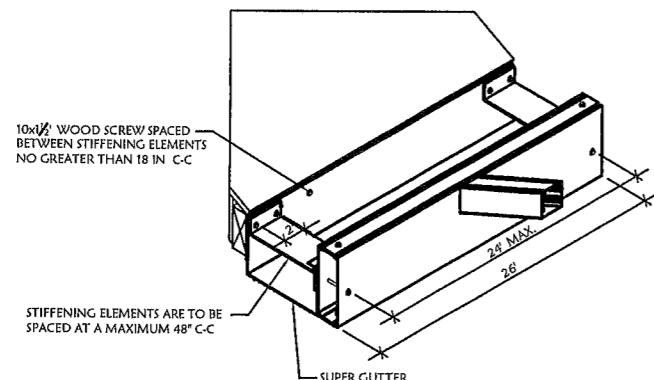
1. SEE TABLE FOR QUANTITY AND EMBEDMENT OF FASTENERS  
2. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
3. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
4. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
5. MIN. EMBEDMENT DEPTH (INCHES)  
6. 1x2 O.B. BASE PLATE  
7. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
8. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
9. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
10. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
11. 1x2 O.B. BASE PLATE  
12. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
13. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
14. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
15. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
16. 1x2 O.B. BASE PLATE  
17. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
18. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
19. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
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23. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
24. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
25. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
26. 1x2 O.B. BASE PLATE  
27. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
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41. 1x2 O.B. BASE PLATE  
42. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
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71. 1x2 O.B. BASE PLATE  
72. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
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108. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
109. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
110. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
111. 1x2 O.B. BASE PLATE  
112. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
113. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
114. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
115. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
116. 1x2 O.B. BASE PLATE  
117. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
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121. 1x2 O.B. BASE PLATE  
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126. 1x2 O.B. BASE PLATE  
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153. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
154. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
155. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
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157. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
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170. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
171. 1x2 O.B. BASE PLATE  
172. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
173. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
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177. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
178. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
179. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
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181. 1x2 O.B. BASE PLATE  
182. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
183. #10x1/2" CONCRETE ANCHOR w/ 1 EMBEDMENT INTO CONCRETE FASTENED A MAXIMUM OF 48 O.C. (TYP.)  
184. 2x2x0.125" ANGLE EACH SIDE (TYP.)  
185. #10x1/2" S.M.S. (QUANTITY FROM TABLE) (TYP.)  
186. 1x2 O.B. BASE PLATE  
187. SCREEN ENCLOSURE MAY SIT ON TOP OF PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT SPECIFIED IN THIS DETAIL IS ACHIEVED  
188. #10x1/2" CONCRETE ANCHOR



Typical Roof Brace to Beam Connection Detail

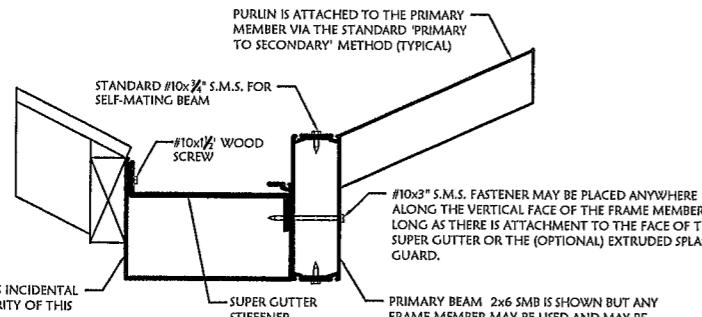
S-2.4

SCALE:  $1/8" = 1'-0"$



NOTES:

1. 2x2x0.125" ANGLE MAY BE USED IN LIEU OF (OR IN ADDITION TO) THE #10x3" S.M.S. ATTACHMENT AND MAY BE ON TOP OR BOTTOM OF THE ATTACHING FRAME MEMBER. THE SPACING AND TYPE OF FASTENERS WILL REMAIN THE SAME AS STATED IN THIS DETAIL. EACH FASTENER WILL BE ON THE SAME PLANE FOR EACH OPPOND FACE (FLANGE) OF THE 2x2 ANGLE.
2. SUPER GUTTER IS SHOWN AS THE COMPONENT BEING FASTENED TO, BUT THIS DETAIL CAN BE USED IN THE CASE WHERE SUPER GUTTER IS SUBSTITUTED FOR A DIFFERENT ALUMINUM STRUCTURAL COMPONENT (I.E. SELF-MATING BEAM ETC.) PROVIDED THE PRIMARY STRUCTURAL COMPONENT IS SUPPORTED PROPERLY IN ACCORDANCE WITH THE DETAILS IN THE SEALED ENGINEERING PACKAGE.

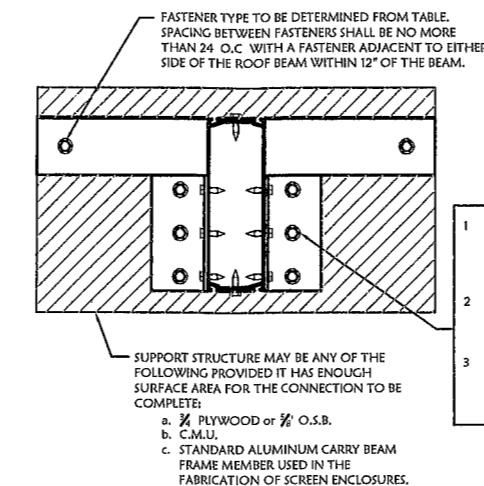


NOTES:

1. ACUTE SIDE OF BEAM MAY BE NOTCHED TO ALLOW FOR THE 2x2x0.125" CUSTOM BENT ANGLE BRACKET TO SLIDE IN BETWEEN THE BEAM AND SUPPORT STRUCTURE. THE FABRICATION METHOD TO ACHIEVE THIS WOULD BE TO SIMPLY ATTACH THE ANGLE BRACKET TO THE BEAM PRIOR TO INSTALLING THE BEAM HALF-SHELL, PROVIDED THE ACUTE SIDE OF THE BEAM IS INSTALLED FIRST. THIS WOULD ALLOW FOR THE FASTENERS TO BE INSTALLED INTO THE SUPPORT STRUCTURE PRIOR TO THE INSTALLATION OF THE OBTUSE SIDE OF THE BEAM.
2. IF THE FABRICATION METHOD SHOWN HERE CANNOT BE ACHIEVED, THEN A SECONDARY 2x2x0.125" ANGLE MUST BE INSTALLED BEHNE THE BEAM. TYPE AND QTY OF FASTENERS SHOULD REFERENCE THE ROW LABELED 2x2 H IN THE 'FASTENER REQUIREMENTS' TABLE.
3. A CUSTOM BENT 2x2x0.125" ANGLE MUST ALWAYS BE INSTALLED ON THE OBTUSE SIDE OF THE BEAM. 4) ALL OTHER NOTES AND SPECIFICATIONS FROM THE 'STRAIGHT BEAM TO SUPPORT STRUCTURE' DETAIL APPLY TO THIS DETAIL.

Parallel Frame Member to Super Gutter Connection

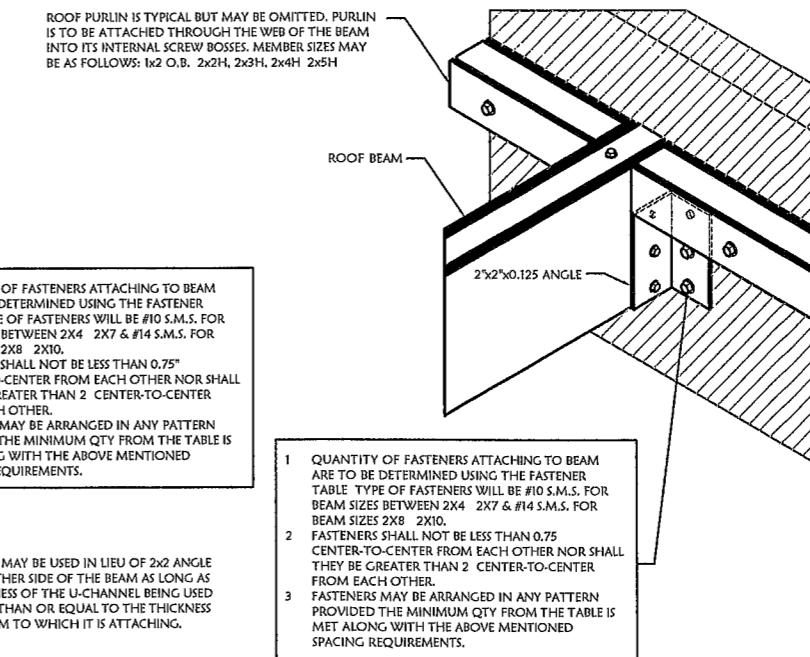
N.T.S.



Straight Beam to Support Structure Connection Detail

S-2.4

N.T.S.



UPRIGHT SIZE	MIN. QUANTITY OF SPECIFIED FASTENERS				
	#10 S.M.S.	#14 S.M.S.	1/4" TAPCON	3/8" TAPCON	#10 WOOD SCREW
2x2 H	2	2	1	1	2
2x3 H	3	3	1	1	3
2x4 H	4	4	1	1	4
2x4 S.M.B.	4	4	1	1	4
2x5 S.M.B.	5	5	2	1	5
2x6 S.M.B.	6	6	3	2	6
2x7 S.M.B.	7	7	4	2	7
2x8 S.M.B.	8	8	4	3	8
2x9 S.M.B.	9	9	5	4	9
2x10 S.M.B.	10	10	6	5	10
	N/A	N/A	12.5	12.5	10

MIN EMBEDMENT DEPTH (INCHES)

Residential Pool Screen Enclosure

Florida

Project:

Florida Pool Enclosures, Inc.  
1221 HICKORY STREET, APT. 101, MONTGOMERY SPRINGS, FL 32770  
TEL: 407/762-2020 FAX: 407/762-5441  
www.floridapoolenclosures.com

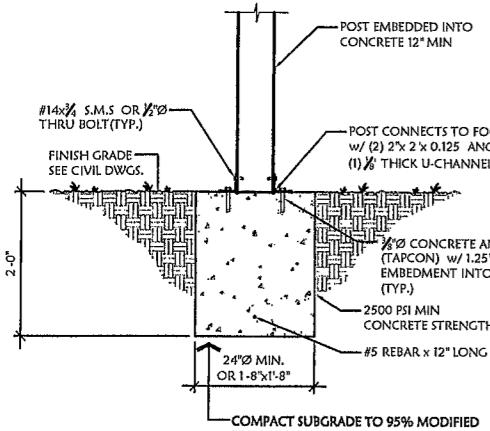
Client:

Project No. #14-003.1  
Drawn By: TLW  
Checked By: RCS  
Approved By: RCS  
Date: 01/17/14  
Sheet

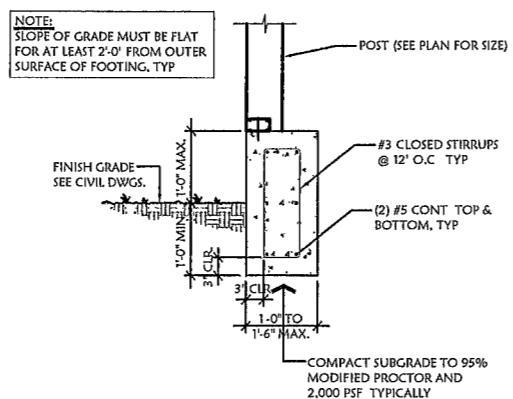
S-2.4

To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

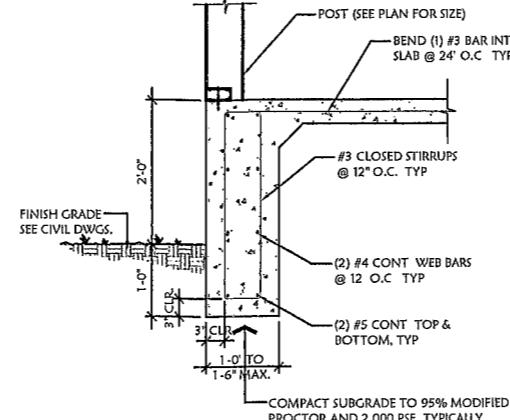




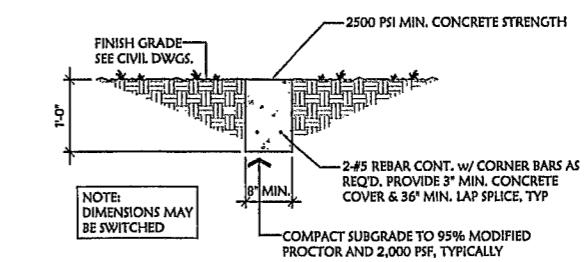
1 Typical Isolated Footing Detail  
S-2.6 SCALE 1/4" = 1'-0"



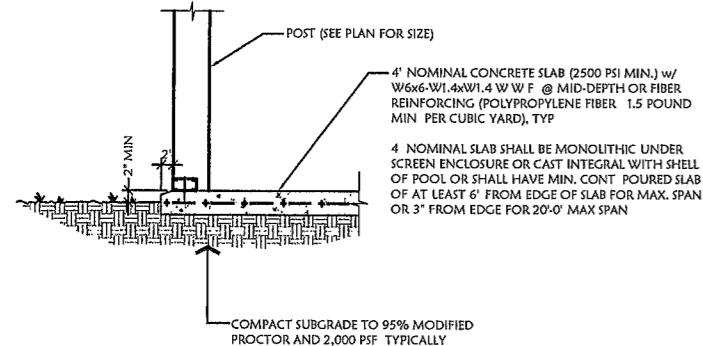
2 Retaining Wall Footing  
S-2.6 SCALE 1/4" = 1'-0"



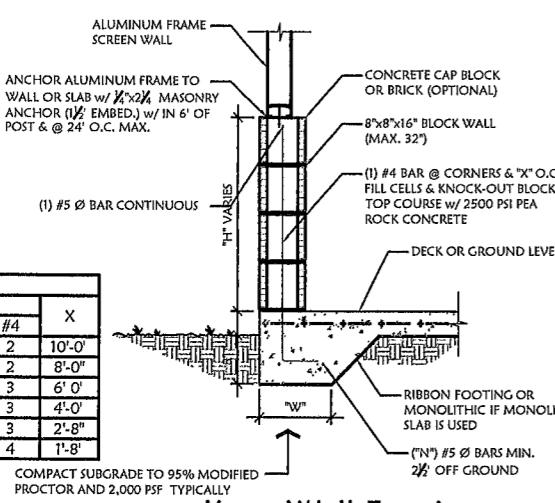
3 Retaining Wall Footing  
S-2.6 SCALE 1/4" = 1'-0"



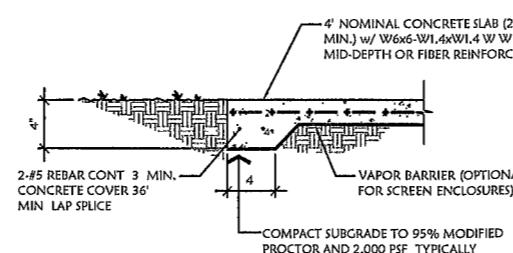
4 Typical Continuous Perimeter Footing Detail  
S-2.6 SCALE 1/4" = 1'-0"  
(MAX. POOL ENCLOSURE ROOF SPAN OF 50'-0")



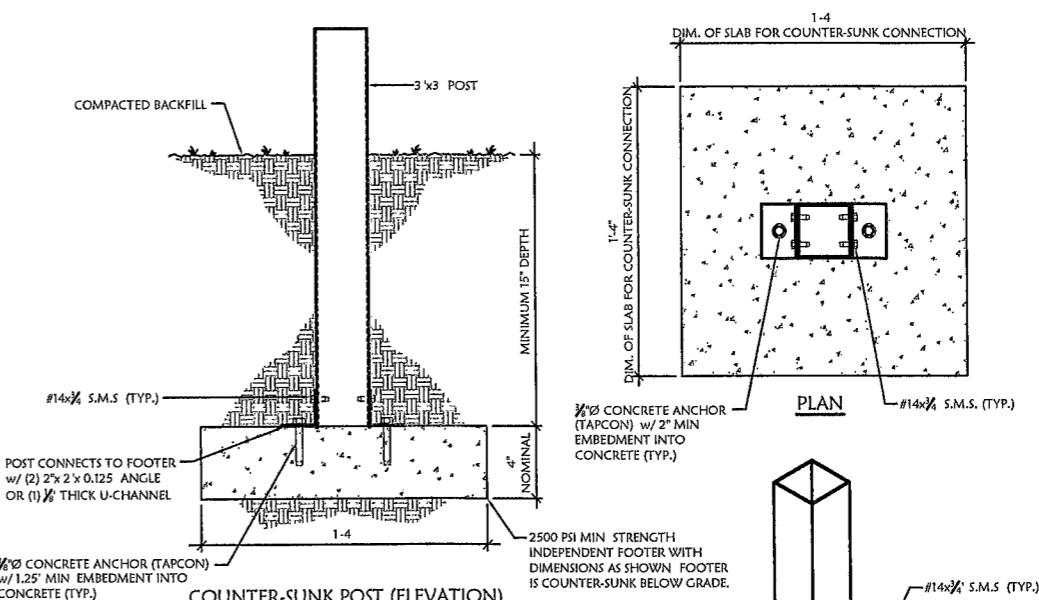
5 Post to Concrete Slab Connection  
S-2.6 SCALE 1/4" = 1'-0"  
(MAX. POOL ENCLOSURE ROOF SPAN OF 40'-0")



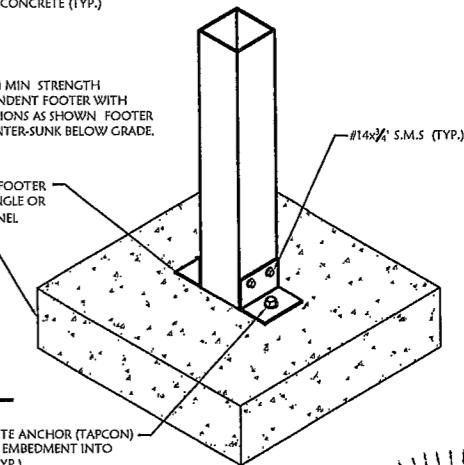
6 Knee Wall Footing For Screen Enclosures  
S-2.6 SCALE 1/4" = 1'-0"



7 Typical Thickened Slab Footing  
S-2.6 SCALE 1/4" = 1'-0"  
(MAX. POOL ENCLOSURE ROOF SPAN OF 50'-0")



8 Independent Column/Post to Concrete Footing Connection  
S-2.6 N.T.S.



STRUCTURAL CONCEPTS  
& DESIGN

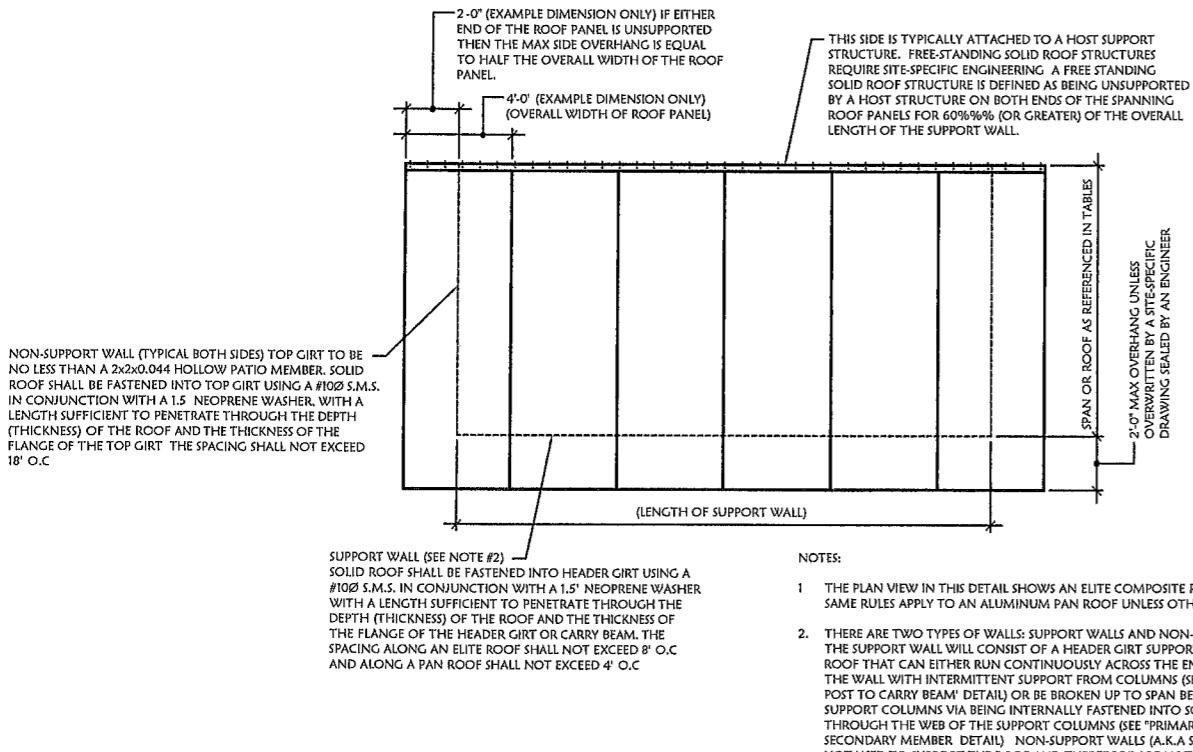
Project No. #14-003.1  
Drawn By: TLW  
Checked By: RCS  
Approved By: RCS  
Date: 01/17/14  
Sheet

o the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

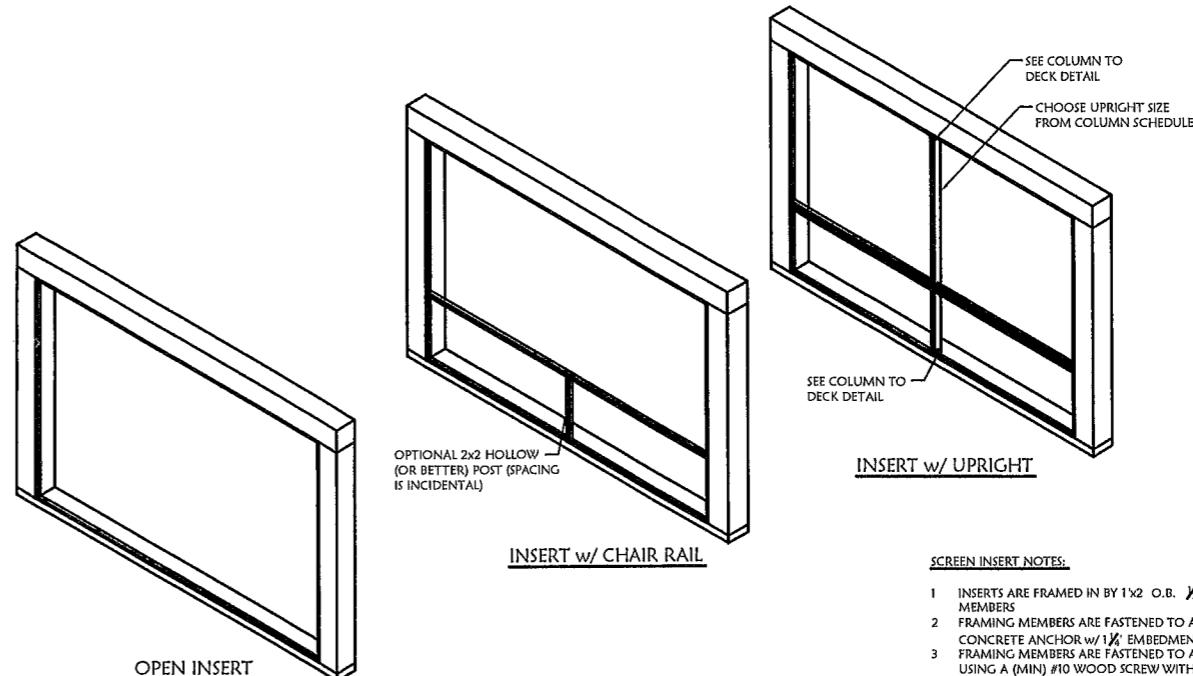
Residential Pool Screen Enclosure  
, Florida

Florida Pool Enclosures, Inc.  
222 HICKORY STREET • ALTAMONTE SPRINGS, FL 32714  
TEL: 407/765-0200 • FAX: 407/765-0200  
www.floridapoolenclosures.com

S-2.6



1 Solid Aluminum Roof Panel Plan  
S-2.7 N.T.S.



SCREEN INSERT NOTES:

1. INSERTS ARE FRAMED IN BY 1x2 O.B.  $\frac{1}{2}$ "x2" O.B. OR 1x3 O.B. MEMBERS
2. FRAMING MEMBERS ARE FASTENED TO A C.M.U. USING 1/4"  $\frac{1}{2}$ " CONCRETE ANCHOR w/  $\frac{1}{2}$ " EMBEDMENT (MIN.)
3. FRAMING MEMBERS ARE FASTENED TO A WOOD FRAMED WALL USING A (MIN) #10 WOOD SCREW WITH A (MIN) 1 EMBEDMENT
4. FRAMING MEMBERS THAT ARE FASTENED TO AN ALUMINUM FRAMED MEMBER WILL USE A (MIN) #10 S.M.S.
5. FRAMING MEMBERS ARE FASTENED @ MAX. 36" O.C. REGARDLESS OF C.M.U. WOOD, OR TO ANOTHER ALUMINUM FRAME MEMBER.
6. THERE SHALL BE A FASTENER WITHIN 4" OF EVERY 90° CORNER OR UPRIGHT IN EITHER DIRECTION BUT NOT REQUIRED TO BE IN BOTH DIRECTIONS
7. INSERTS MAY BE AS LARGE AS DESIRED. THE TYPE OF INSERT USED IS CHOSEN BY THE DESIGNER AND IS INCIDENTAL TO STRUCTURAL INTEGRITY

ALUMINUM PAN (3 RISER) SPAN TABLE			
PAN TYPE	3'x12"x0.024"	3'x12"x0.030"	3'x12"x0.050"
EFFECTIVE SPAN (FT.)			
V <sub>ULT</sub> = 130	11.0	11.9	15.1
V <sub>ULT</sub> = 140	10.8	11.7	13.7
V <sub>ULT</sub> = 150	9.8	10.9	12.8
V <sub>ULT</sub> = 160	9.5	10.8	12.6
V <sub>ULT</sub> = 170	9.2	10.5	12.2

NOTE:  
THE ELITE ROOF SPAN TABLES WERE PRODUCED IN ACCORDANCE WITH THE ALLOWABLE LOADS GIVEN IN THE FLORIDA PRODUCT APPROVAL OF THE ELITE ALUMINUM CORPORATION'S COMPOSITE ROOF PANEL. THE FLORIDA PRODUCT APPROVAL NUMBER FOR THIS ROOF PANEL PRODUCT IS FL-#7561-R1

CARRY BEAM/HEADER GIRT SCHEDULE FOR COMPOSITE ROOFS ONLY												
COMP. ROOF SPAN	4	5	6	7	8	9	10	11	12	14	16	20
BEAM SIZE	EFFECTIVE SPAN (FT.)											
2x2 H	7.6	7.1	6.5	6.0	5.8	5.6	5.4	5.2	5.0	4.6	4.3	4.0
2x3 H	10.7	9.9	9.1	8.4	8.2	7.8	7.5	7.3	6.9	6.4	6.0	5.6
2x4 H	11.6	10.7	9.9	9.1	8.9	8.5	8.2	7.9	7.5	7.0	6.5	6.1
2x5 H	14.4	13.4	12.5	12.0	11.4	11.1	10.6	10.3	9.9	9.1	8.6	8.1
2x4 SMB	12.4	11.6	10.9	10.2	9.5	9.0	8.5	8.2	7.8	7.2	6.7	6.3
2x5 SMB	15.4	13.2	13.5	12.5	11.7	11.0	10.5	10.0	9.5	8.9	8.3	7.8
2x6 SMB	18.0	16.6	15.1	13.9	13.1	12.5	11.7	11.2	10.6	9.9	9.2	8.8
2x7 SMB	20.1	17.9	16.4	15.2	14.1	13.4	12.7	12.1	11.6	10.7	10.0	9.4
2x8 SMB	25.5	23.6	22.3	21.2	20.2	19.6	18.8	18.1	17.2	15.9	14.9	14.0
2x9 SMB	28.0	25.9	24.5	23.3	22.1	21.0	19.8	18.9	18.0	16.8	15.6	14.8
2x10 SMB	34.8	32.4	30.4	28.9	27.7	26.7	25.7	25.0	24.2	23.0	21.9	20.9

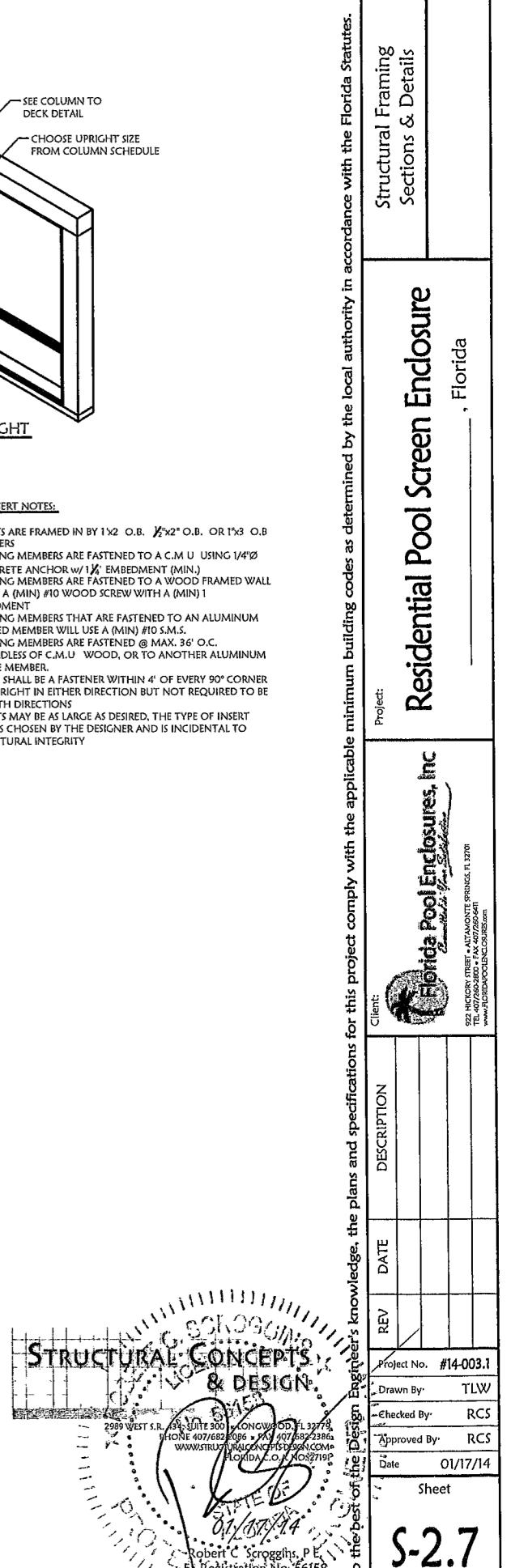
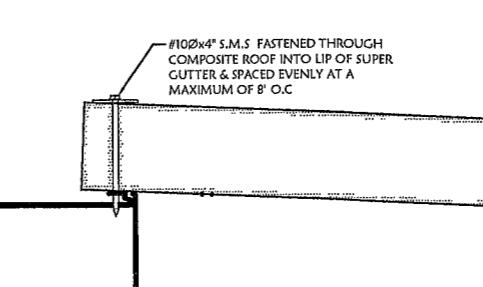
ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#1 CORE DENSITY FOAM) [FLORIDA PRODUCT APPROVAL #FL7561-R1]					
ROOF & SKIN THICKNESS	3'x48"x0.024"	3'x48"x0.030"	4'x48"x0.024"	4'x48"x0.030"	6'x48"x0.024"
130 Exp. "B"	21'-1"	24'-9"	23'-1"	26'-7"	28'-7"
140 Exp. "B", 130 Exp. "C"	19'-5"	22'-9"	21'-3"	24'-5"	26'-5"
150 Exp. "B", 140 Exp. "C"	18'-2"	21'-1"	19'-7"	22'-6"	24'-6"
160 Exp. "B", 150 Exp. "C"	15'-6"	19'-3"	18'-2"	20'-10"	22'-6"
170 Exp. "B", 160 Exp. "C"	12'-7"	15'-0"	14'-0"	16'-3"	17'-5"

ELITE ALUMINUM CORPORATION COMPOSITE ROOF SPAN TABLE (#2 CORE DENSITY FOAM) [FLORIDA PRODUCT APPROVAL #FL7561-R1]					
ROOF & SKIN THICKNESS	3'x48"x0.024"	3'x48"x0.030"	4'x48"x0.024"	4'x48"x0.030"	6'x48"x0.024"
130 Exp. "B"	23'-1"	27'-2"	25'-4"	29'-3"	31'-6"
140 Exp. "B", 130 Exp. "C"	21'-2"	24'-11"	23'-4"	26'-11"	29'-0"
150 Exp. "B", 140 Exp. "C"	19'-7"	23'-2"	21'-8"	25'-1"	28'-6"
160 Exp. "B", 150 Exp. "C"	18'-1"	21'-2"	19'-11"	22'-9"	24'-8"
170 Exp. "B", 160 Exp. "C"	14'-0"	16'-3"	15'-3"	17'-8"	18'-3"

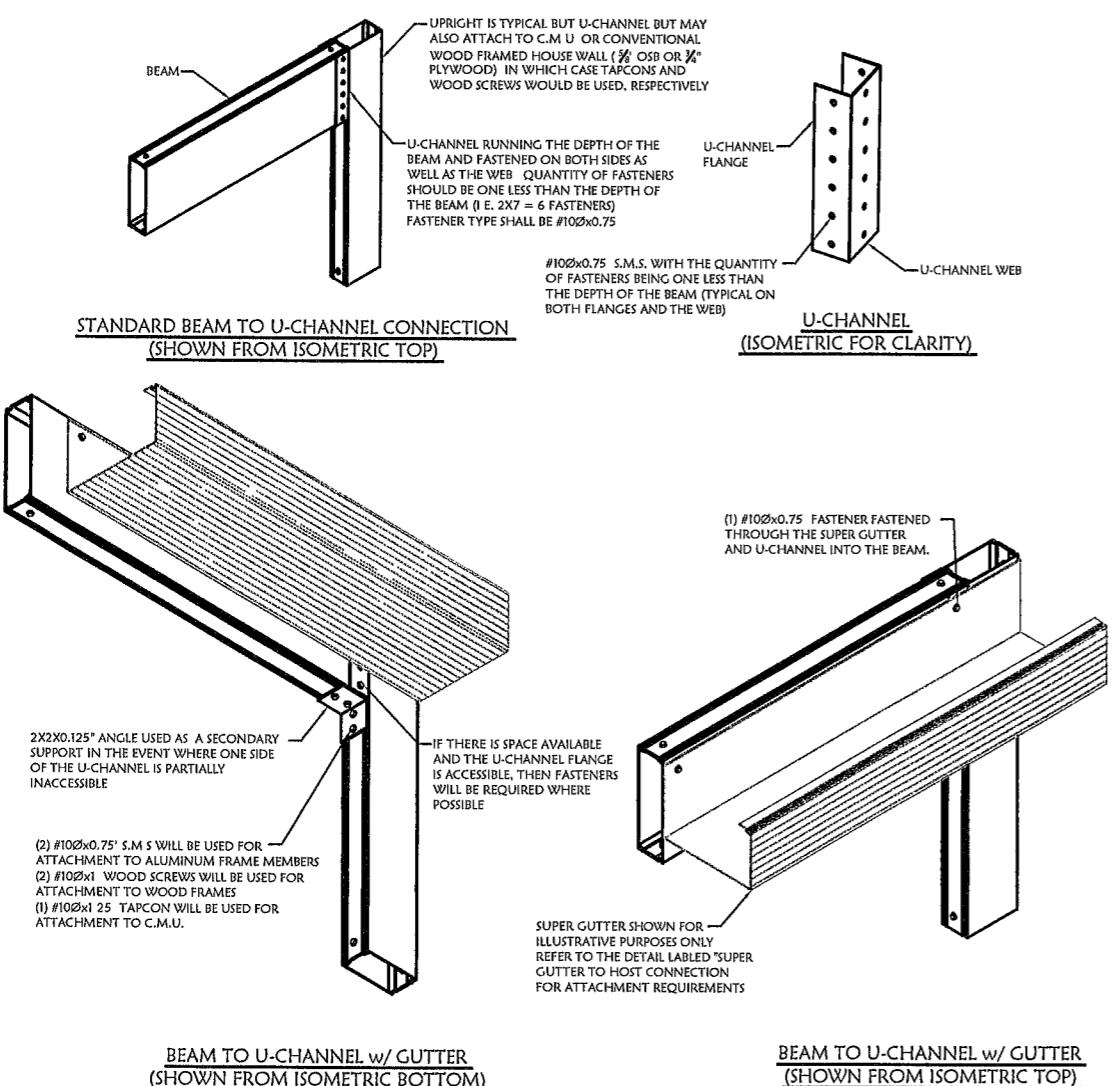
SUPER GUTTER (5" OR 7") ATTACHMENT OF SUPER GUTTER IS NOT SHOWN FOR ILLUSTRATIVE PURPOSES. SEE INDEPENDENT DETAIL LABELED 'SUPER GUTTER CONNECTION TO HOST STRUCTURE'

GUTTER STIFFENER SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SPACING AND ATTACHMENT DETAILS LOCATED IN NOTE #3 IN THE DETAIL LABELED 'SUPER GUTTER CONNECTION TO HOST STRUCTURE'

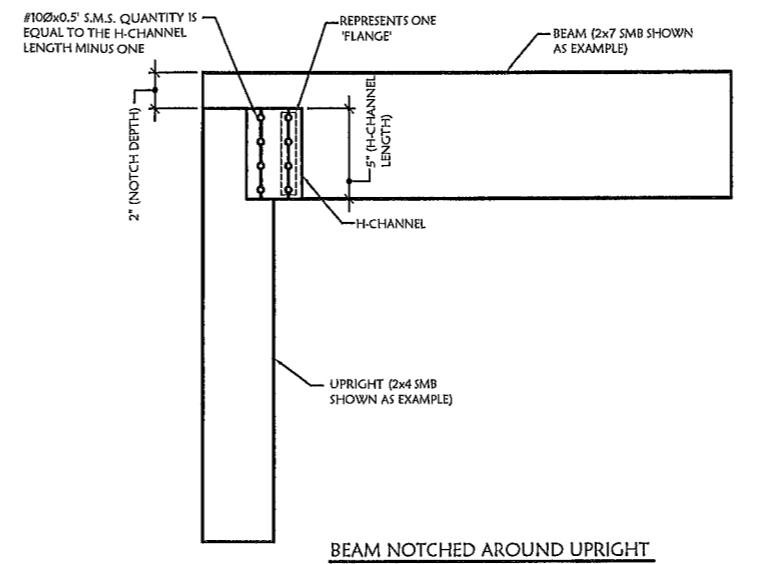
3  
S-2.7  
N.T.S.  
Composite Roof Panel to Top of Super Gutter Connection Detail





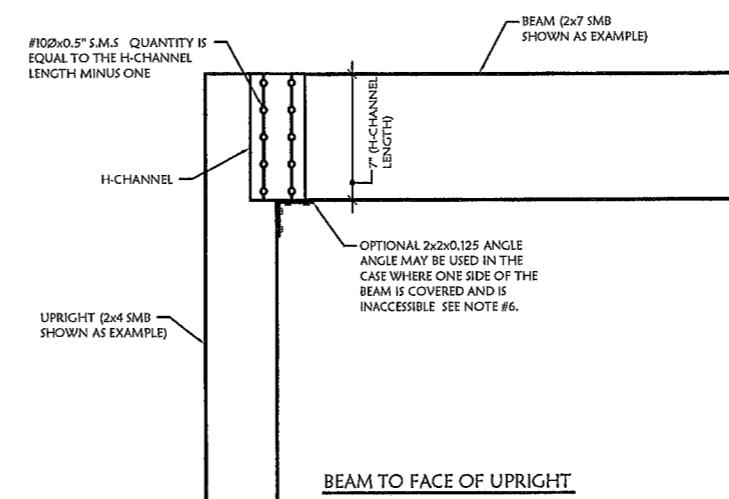


1 Beam to U-Channel Connection Detail  
S-2.9 N.T.S.



**NOTES:**

- 1 H-CHANNEL LENGTH WILL BE EQUAL TO THE BEAM LENGTH MINUS THE NOTCH DEPTH.
- 2 KNEE BRACES MAY BE USED IN ADDITION TO THIS CONNECTION BUT ARE OPTIONAL. FOR INFORMATION ABOUT A KNEE BRACE CONNECTION PLEASE SEE THE DETAIL LABELED 'KNEE BRACE CONNECTION'
- 3 QUANTITY OF SCREWS ON EACH FLANGE MUST BE EQUAL TO THE H-CHANNEL LENGTH MINUS ONE (AS SHOWN IN THE DETAIL).
- 4 FASTENERS IN H-CHANNEL MAY BE #140x0.5 ALSO
- 5 ANY COMBINATION OF FRAME MEMBERS FOR THE UPRIGHT AND BEAM MAY BE USED PROVIDED THEY ARE IN THE BEAM SCHEDULE AND UPRIGHT SCHEDULE RESPECTIVELY
- 6 H-CHANNEL CONFIGURATION AND FRAME-NOTCH SHOWN IS IN A VERTICAL VECTOR WITH THE BEAM BEING NOTCHED. THE VECTOR MAY ALSO BE HORIZONTAL WITH THE UPRIGHT NOTCHED ONLY IF THE UPRIGHT DEPTH IS LARGER THAN THE BEAM DEPTH.
- 7 AN OPTIONAL 2x2x0.125 ANGLE MAY BE USED IN CASES WHERE ONE SIDE OF THE BEAM IS INACCESSIBLE. SEE NOTE #6 IN THE DETAIL BELOW LABELED 'BEAM TO FACE OF UPRIGHT'

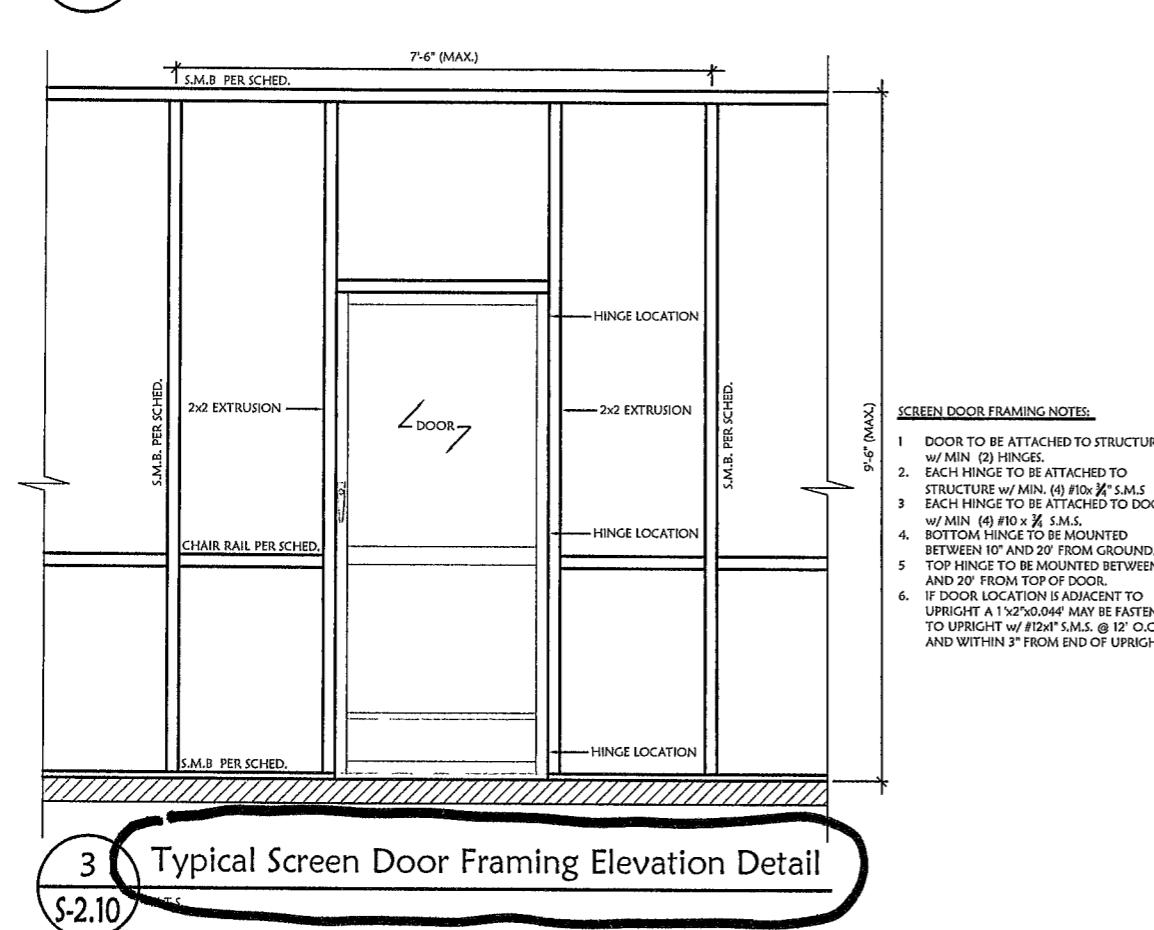


**NOTES:**

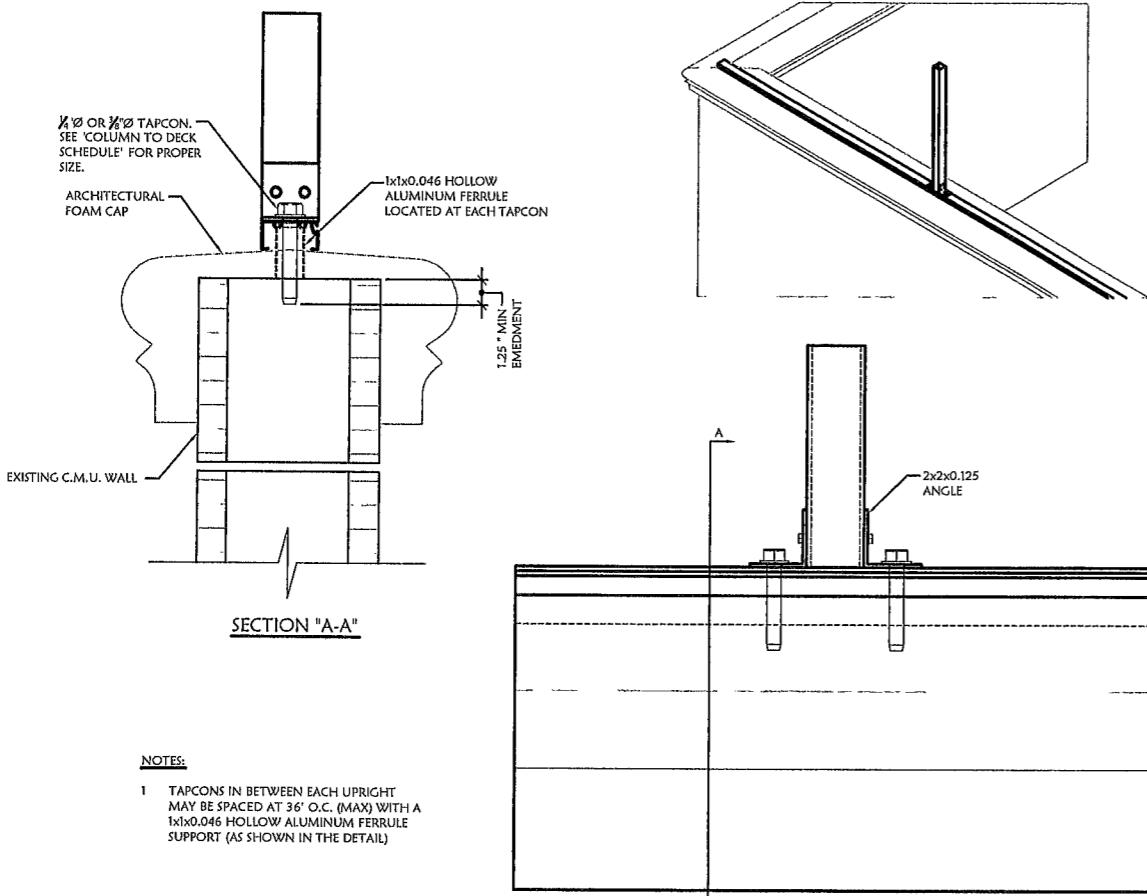
- 1 KNEE BRACES MAY BE USED IN ADDITION TO THIS CONNECTION BUT ARE OPTIONAL. FOR INFORMATION ABOUT A KNEE BRACE CONNECTION PLEASE SEE THE DETAIL LABELED 'KNEE BRACE CONNECTION'
- 2 QUANTITY OF SCREWS ON EACH FLANGE MUST BE EQUAL TO THE H-CHANNEL LENGTH MINUS ONE (AS SHOWN IN THE DETAIL).
- 3 FASTENERS IN H-CHANNEL MAY BE #140x0.5 ALSO
- 4 ANY COMBINATION OF FRAME MEMBERS FOR THE UPRIGHT AND BEAM MAY BE USED PROVIDED THEY ARE IN THE BEAM SCHEDULE AND UPRIGHT SCHEDULE RESPECTIVELY
- 5 THE CONFIGURATION SHOWN IS THE BEAM BUTTING INTO THE UPRIGHT WITH THE H-CHANNEL LENGTH BEING DRIVEN BY THE BEAM DEPTH. THIS CONFIGURATION MAY BE SWITCHED TO HAVE THE UPRIGHT BUTTING INTO THE BOTTOM OF THE BEAM AND THE H-CHANNEL LENGTH BEING DRIVEN BY THE UPRIGHT DEPTH.
- 6 THE 2x2x0.125 ANGLE IS USED IN LIEU OF ONE INACCESSIBLE SIDE OF BEAM. (2) #100x0.75 FASTENERS SHOULD BE USED ON EACH FLANGE OF THE ANGLE BRACKET. IF THE INACCESSIBLE SIDE IS ONLY PARTIALLY COVERED, THEN FASTENERS SHOULD BE INSTALLED WHERE POSSIBLE.

2 Beam to Upright (H-Channel) Connection Detail  
S-2.9 N.T.S.

 <p>Florida Pool Enclosures, Inc. 922 HICKORY STREET, ALTAMONTE SPRINGS, FL 32701 TEL: 407-629-2086 FAX: 407-629-2386 www.floridapoolenclosures.com</p>		Residential Pool Screen Enclosure		
		Project:	Client:	Structural Framing Sections & Details
<p><b>STRUCTURAL CONCEPTS &amp; DESIGN</b> S-2.9</p> <p>01/17/14</p> <p>Robert C. Scroggins, E.E. FL Registration No. 56158</p>		<p>Project No. #14-003.1</p> <p>Drawn By: TLW</p> <p>Checked By: RCS</p> <p>Approved By: RCS</p> <p>Date: 01/17/14</p> <p>Sheet</p>		
<p>the best of the Design engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.</p>				

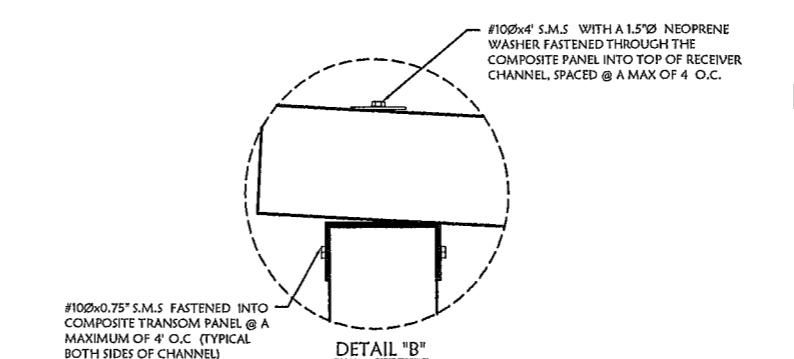
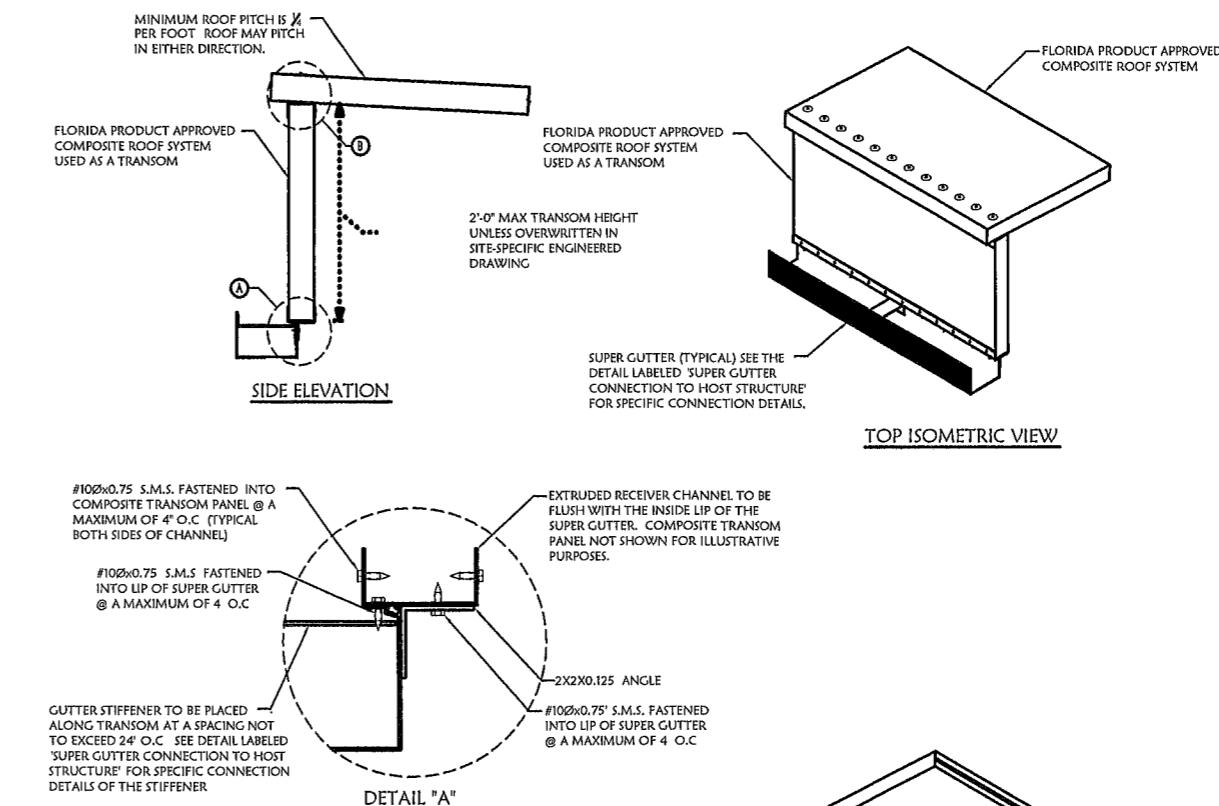


1 Screen Enclosure Base Attachment to Foam Capped CMU Wall  
S-2.10 N.T.S.

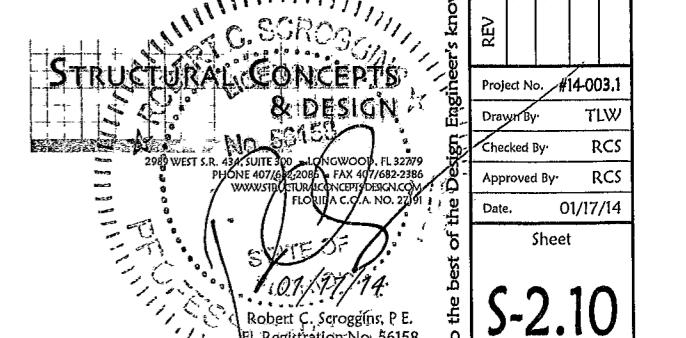


NOTES:

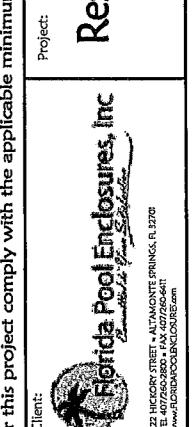
- 1 TAPCONS IN BETWEEN EACH UPRIGHT MAY BE SPACED AT 36' O.C. (MAX) WITH A 1x1x0.046 HOLLOW ALUMINUM FERRULE SUPPORT (AS SHOWN IN THE DETAIL)



2 Composite Panel Transom Detail  
S-2.10 N.T.S.



Structural Framing Sections & Details	Residential Pool Screen Enclosure
	Florida



To the best of the Design Engineer's knowledge, the plans and specifications for this project comply with the applicable minimum building codes as determined by the local authority in accordance with the Florida Statutes.

S-2.10

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO												
SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26	MAXIMUM HEIGHT (FT.)	
8	20.0	19.8	19.6	19.4	19.2	19.0	18.8	18.6	18.4	18.2		
10	19.6	19.4	19.2	19.0	18.8	18.6	18.4	18.2	18.0	17.8		
12	19.2	19.0	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.4		
14	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.4	17.2	17.0		
16	18.4	18.2	18.0	17.8	17.6	17.4	17.2	17.0	16.8	16.6		
18	17.9	17.7	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.1		
20	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.1	15.9	15.7		
22	17.1	16.9	16.7	16.5	16.3	16.1	15.9	15.7	15.5	15.3		
24	16.7	16.5	16.3	16.1	15.9	15.7	15.5	15.3	15.1	14.9		
26	16.3	16.1	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.5		

COMPOSITE ROOF SPAN OF 6'-0"

HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED

3x3x0.060 COLUMN SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO												
SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26	MAXIMUM HEIGHT (FT.)	
8	18.9	18.7	18.5	18.3	18.1	17.9	17.7	17.5	17.3	17.1		
10	18.2	18.0	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.4		
12	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.1	15.9	15.7		
14	16.8	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0		
16	16.2	16.0	15.8	15.6	15.4	15.2	15.0	14.8	14.6	14.4		
18	15.5	15.3	15.1	14.9	14.7	14.5	14.3	14.1	13.9	13.7		
20	14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.2	13.0		
22	14.1	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3		
24	13.4	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.8	11.6		
26	12.7	12.5	12.3	12.1	11.9	11.7	11.5	11.3	11.1	10.9		

COMPOSITE ROOF SPAN OF 10'-0"

HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26	MAXIMUM HEIGHT (FT.)	
8	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.4	16.2	16.0		
10	16.8	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0		
12	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.5	14.3	14.1		
14	14.9	14.7	14.5	14.3	14.1	13.9	13.7	13.5	13.3	13.1		
16	14.0	13.8	13.6	13.4	13.2	13.0	12.8	12.6	12.4	12.2		
18	13.0	12.8	12.6	12.4	12.2	12.0	11.8	11.6	11.4	11.2		
20	12.0	11.8	11.6	11.4	11.2	11.0	10.8	10.6	10.4	10.2		
22	11.1	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.5	9.3		
24	10.1	9.9	9.7	9.5	9.3	9.1	8.9	8.7	8.5	8.3		
26	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.3		

COMPOSITE ROOF SPAN OF 14'-0"

HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26	MAXIMUM HEIGHT (FT.)	
8	20.9	20.7	20.6	20.5	20.3	20.2	20.1	19.9	19.8	19.7		
10	20.6	20.5	20.3	20.2	20.1	19.9	19.8	19.7	19.5	19.4		
12	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	19.3	19.1		
14	20.0	19.9	19.8	19.6	19.5	19.4	19.2	19.1	19.0	18.9		
16	19.8	19.6	19.5	19.4	19.2	19.1	19.0	18.9	18.7	18.6		
18	19.5	19.4	19.2	19.1	19.0	18.8	18.7	18.6	18.4	18.3		
20	19.2	19.1	19.0	18.8	18.7	18.6	18.4	18.3	18.2	18.0		
22	19.0	18.8	18.7	18.6	18.4	18.3	18.2	18.0	17.9	17.8		
24	18.7	18.5	18.4	18.3	18.2	18.0	17.9	17.8	17.6	17.5		
26	18.4	18.3	18.1	18.0	17.9	17.8	17.7	17.6	17.4	17.2		

COMPOSITE ROOF SPAN OF 6'-0"

HEIGHTS MAY BE INTERPOLATED, BUT NOT EXTRAPOLATED

SCREEN ROOF TRIBUTARY WIDTH (FT.)	8	10	12	14	16	18	20	22	24	26	MAXIMUM HEIGHT (FT.)	
8	19.4	19.3	19.1	19.0	18.9	18.7	18.6	18.5	18.4	18.2		
10	18.8	18.6	18.5	18.4	18.2	18.1	18.0	17.8	17.7	17.6		
12	18.1	18.0	17.9	17.7	17.6	17.5	17.3	17.2	17.1	17.0		
14	17.5	17.4	17.2									