

Florida Pool Enclosures

922 Hickory St.
Altamonte Springs, FL
407-260-2800
fax 407-260-6411

Job # 13533

Project Address:
Kim Olin
454 N.W. Horizon St.
Lake City, FL 32055

prepared by: Allen Thompson

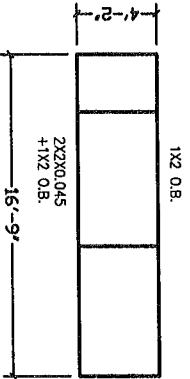
date: 09/26/13 scale: NTS

tax district:

Structural Concepts & Design, LLC

The locations of doors are incidental to the design.
Girts remain the same throughout the design unless otherwise noted.
Dimensions are to center of walls and members.
Length given for knee braces represents horizontal and vertical displacements.

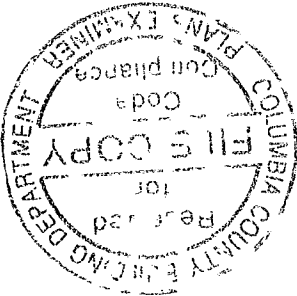
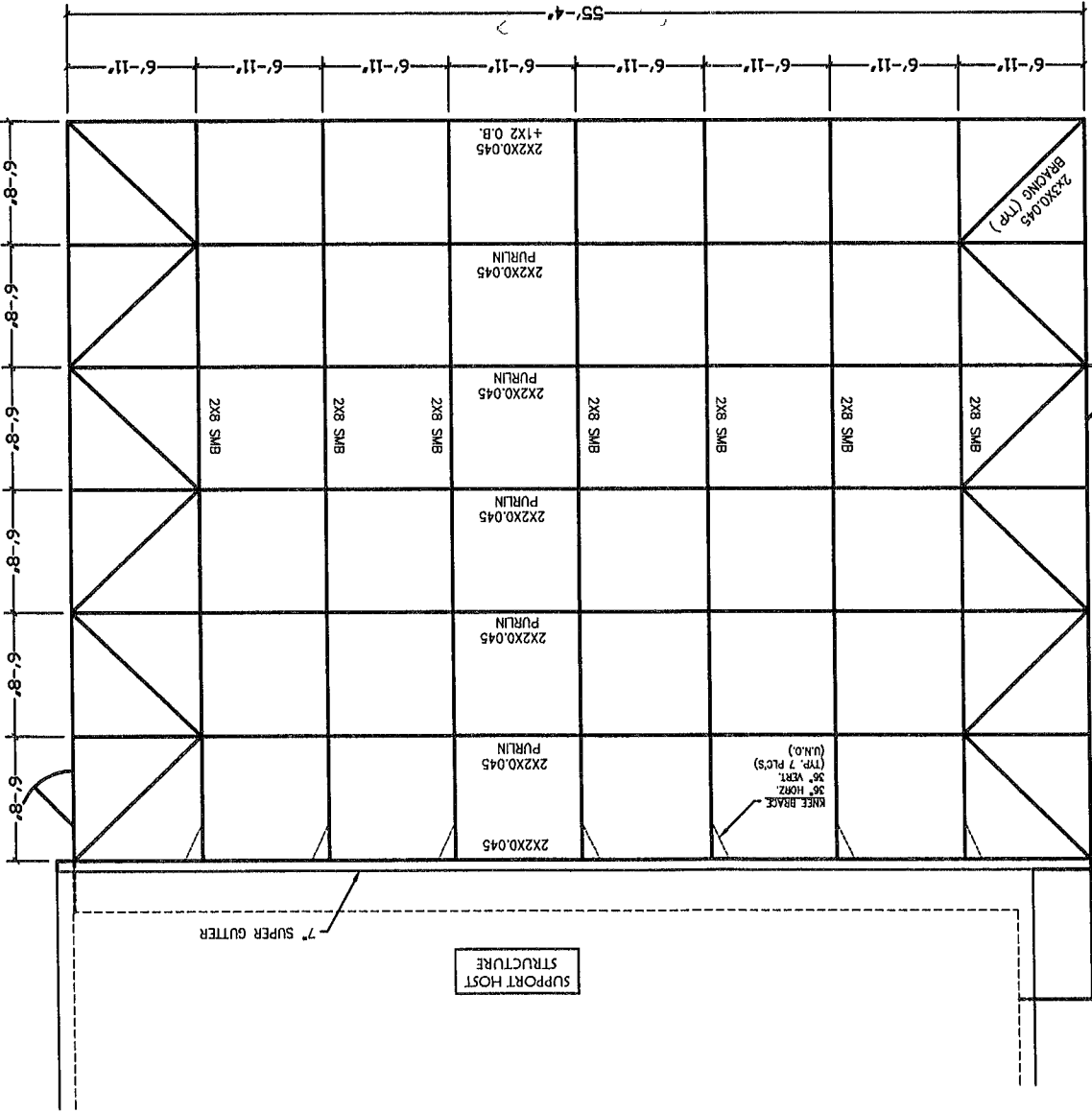
BACK FRAMING ELEVATION



EXISTING FOUNDATION

SCREEN AREA 2268 SQ.FT

POOL ENCLOSURE PLAN



Florida Pool Enclosures

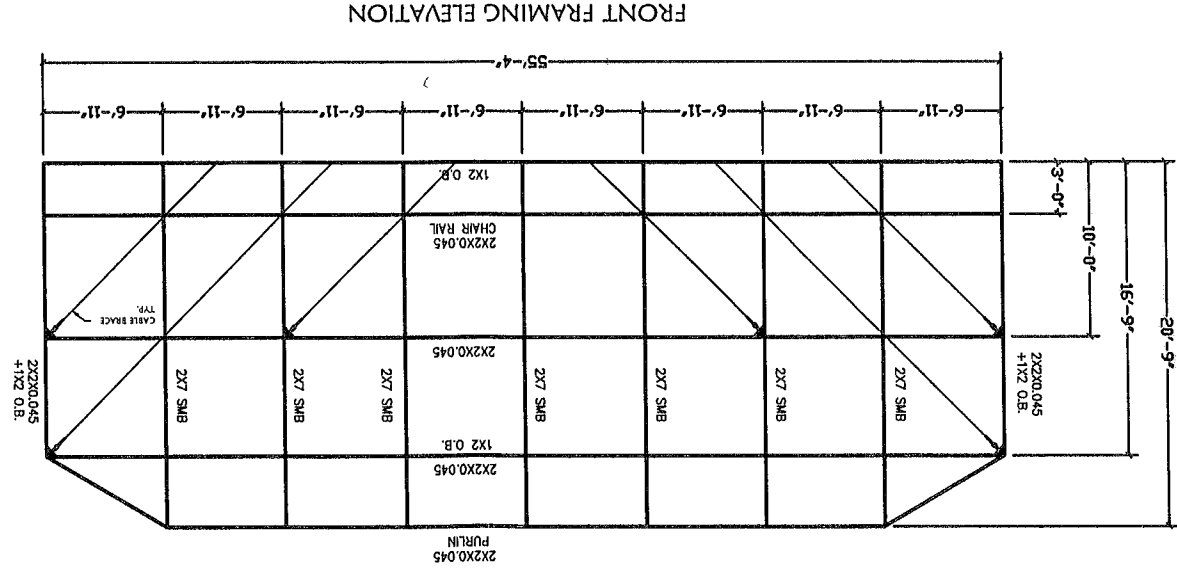
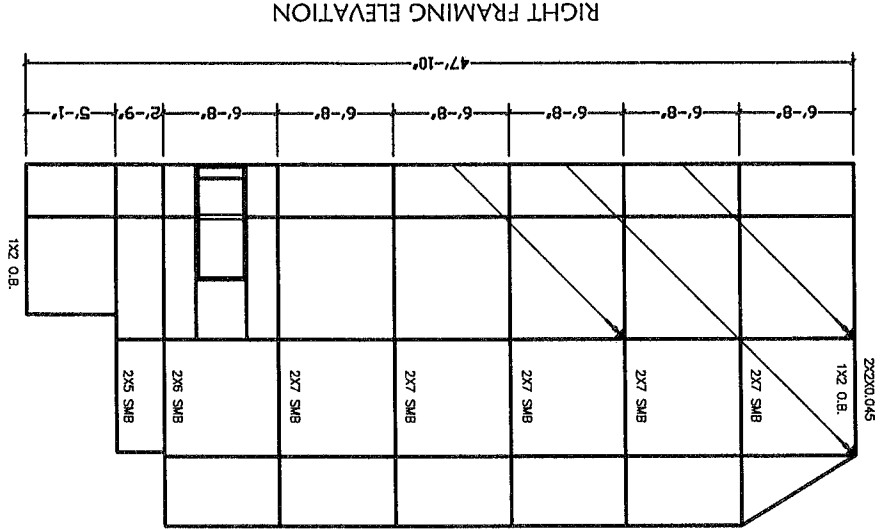
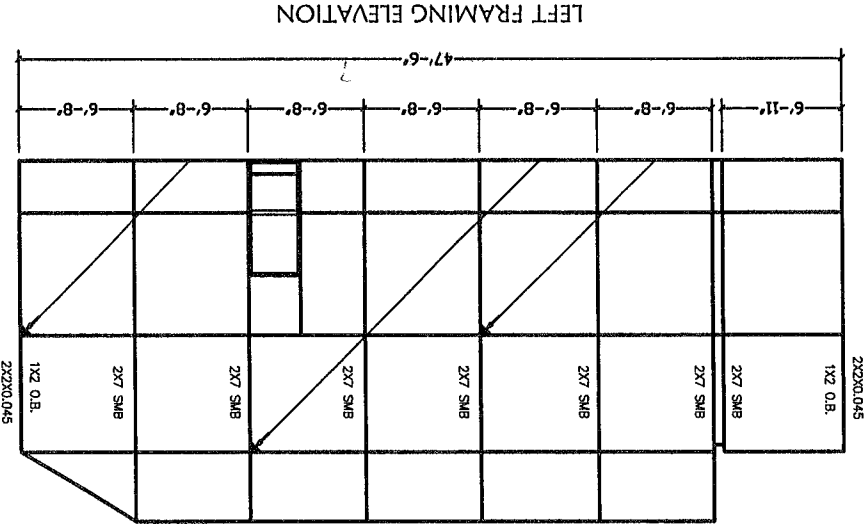
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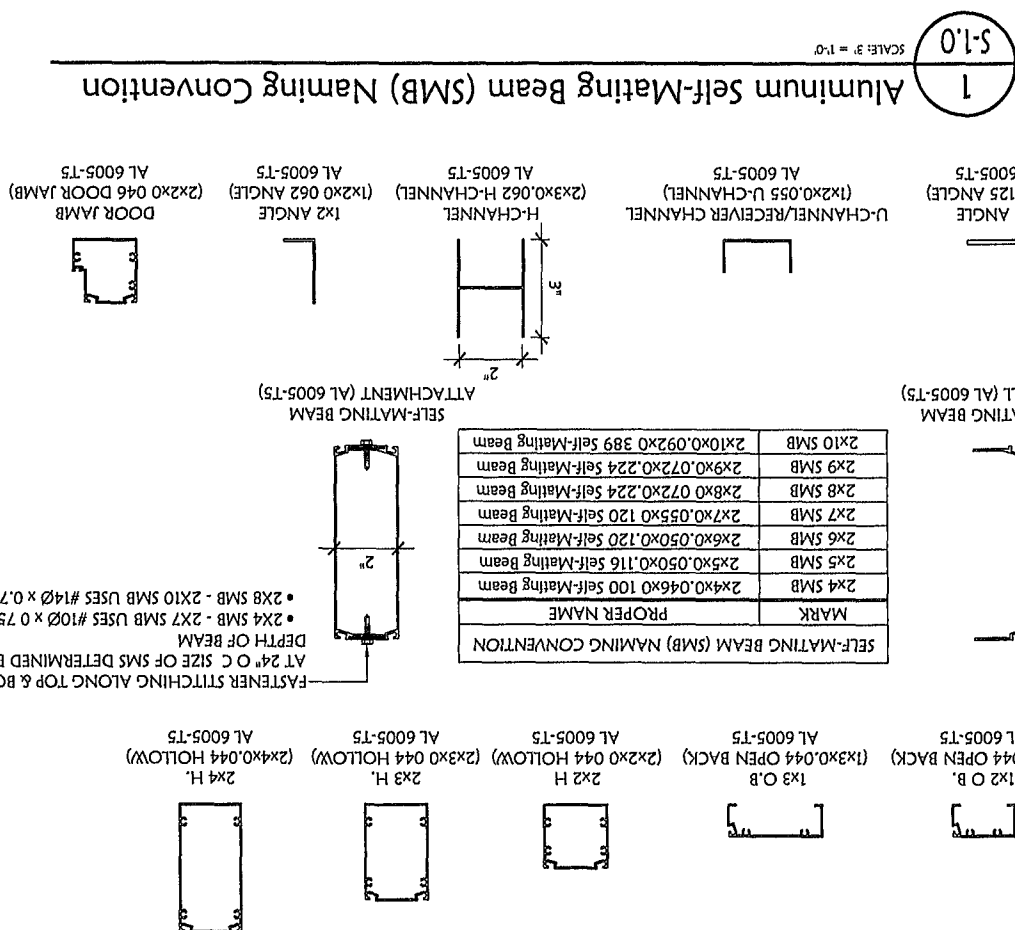
The locations of doors are incidental to the design.
Girts remain the same throughout the design unless otherwise noted.
Dimensions are to center of walls and members.
Length given for knee braces represents horizontal and vertical displacements.



COLUMN MEMBER TYPE												
CARRY BEAM SCHEDULE FOR SCREEN ENCLOSURE ROOFS (EXPOSED "B")												
8.0 12.0 20.0 24.0 30.0 34.0 40.0 44.0 48.0 52.0												
TRIBUTARY WIDTH EFFECTIVE SPAN (FT.)												
2x4 SMB	16.4	14.1	11.7	10.9	9.6	9.1	8.4	8.0	7.7	7.3		
2x6 SMB	20.1	17.4	14.7	13.2	11.7	10.7	10.2	9.8	9.3			
2x6 SMB	22.4	20.4	17.5	15.8	13.3	12.2	11.7	11.2	10.7			
2x8 SMB	25.4	23.4	19.2	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		
2x8 SMB	31.6	26.6	25.0	23.0	21.2	19.7	18.8	18.1	17.3			
2x10 SMB	42.7	39.3	33.0	33.0	28.6	27.5	25.9	24.7	23.6	22.7		
2x12 TFB	50.1	42.2	28.9	27.2	17.6	15.6	13.5	12.8	12.3	11.8		
2x12 TFB	34.0	27.3	22.9	21.9	16.4	14.6	12.4	11.6	11.2	10.7		
2x9 TFB	36.3	33.4	28.1	26.4	25.4	23.4	22.4	21.0	20.1	19.3		

MEMBER	1. SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.											
	NOTES											
	2x20.050	17.0	17.3	16.8	16.1	15.8	15.1	14.4	13.7	13.0		
	2x30.060	15.3	14.7	14.3	13.8	13.4	12.9	12.4	11.9	11.4		
	2x30.090	13.7	13.1	12.8	12.4	12.0	11.7	11.4	11.1	10.8		
	2x20.044	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.7	7.5		
	EFFECTIVE SPAN 11"											
	4.0	4.5	5.0	5.0	5.0	6.0	6.5	7.0	7.5	8.0		
	PURCHASE SCHEDULE (EXPOSURE 11")											
	TRIBUTARY WIDTH*											

TRIBUTARY WIDTH	COLUMN SCHEDULE (EXPOSURE)	EFFECTIVE HEIGHT (H _E)	2x3 H	2x4 H	2x5 SMB	2x6 SMB	2x7 SMB	2x8 SMB	2x9 SMB	2x10 SMB	2x5 TFB	2x7 TFB	2x9 TFB
8.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
7.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
7.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
6.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
6.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
5.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
5.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
4.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
4.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
3.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
3.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
2.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
2.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
1.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
1.0	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2
0.5	4.0	5.0	5.5	6.2	6.8	7.3	7.8	8.2	8.7	9.0	13.9	17.2	16.2



KNEE BRACE SCHEDULE (EXPOSURE "B")	
SIZE	LENGTH
2"x3"x0.044	UP TO 2'
2"x3"x0.050	2' TO 4'
2"x3"x0.050	4' TO 6'
2"x4"x0.048 x 0.100 SM/B	6' TO 7'
2"x6"x0.050 x 0.120 SM/B	7' TO 8'
	QTY PER FLANGE
	2
	3
	4
	4
	6

BEAM SCHEDULE (EXPOSURE TIME)	4.0	5.0	6.0	7.0	8.0
TRIBUTARY WIDTH	EFFECTIVE SPAN (ft.)				
2x4 SMB	20.4	18.9	17.3	16.0	14.9
2x5 SMB	27.3	24.4	22.4	20.6	19.3
2x6 SMB	31.8	28.9	26.4	24.1	22.8
2x8 SMB	47.1	43.2	41.2	38.1	37.5
2x10 SMB	55.9	51.9	48.8	45.4	44.4
2x12 SMB	60.0	55.9	52.4	48.4	47.2
2x5 TFB	28.5	26.0	23.7	22.0	20.5
2x7 TFB	31.8	28.9	26.4	24.1	22.8
2x9 TFB	35.1	31.7	28.4	25.4	24.0

2. NOTES:
 * SPANS MAY BE INTERPOLATED BUT NOT EXTRAPOLATED.
 * FOR ANYTHING SMALLER THAN A 2X4 (I.E. 2X2 OF 2X3),
 USE THE RUINING TABLE TO DETERMINE SPANS.

	MEMBER					
CHAIR RAIL SCHEDULE EXPOSURE (in)	4.0	5.0	6.0	7.0	8.0	
TRIBUTARY WIDTH	4.0	5.0	6.0	7.0	8.0	
EXPOSURE (in)	4.0	5.0	6.0	7.0	8.0	
2x2x0.045	8.5	7.8	7.6	7.1	6.8	
2x3x0.050	11.0	10.8	9.7	9.1	8.7	
2x3x0.060	12.7	11.4	11.1	10.6	10.1	
2x4x0.050	13.6	12.7	11.7	11.2	10.5	
2x5x0.050	15.0	13.4	12.2	11.3	10.6	

• THE SPAN TABLES SHOWN ARE CALCULATED FOR WIND EXPOSURE B, THE TERMINAL, IF EXPOSURE C IS REQUIRED, THEN MULTIPLY THE FIGURES IN THE TABLE BY 1.02

RESPECTIVE MEMBER.

WHAT THE CHAIR MAILS SCHEDULE IDENTIFIES FOR EACH BETWEEN 16' AND 18' AND THAT THE SPAN IS NOT GREATER THAN THE CHAIR MAILS. 648 MAY BE USED IN PLACE OF THE CHAIR MAILS. IT MUST BE ATTACHED TO EVERY AVAILABLE SCREW BOSS OR WIRE OF THE UPRIGHT. NOT TO UPRIGHT THROUGH THE CHAIR MAILS THAT ARE ATTACHED TO UPRIGHTS THROUGH THE GROUND TO THE BOTTOM OF THE KNEE BRACE.

UPRIGHT MEMBER SIZE IS CHOSEN BY THE SPAN FROM THE APPROVED AND SEATED BY A LICENSED PROFESSIONAL ENGINEER.

UNLESS THE SITE SPECIFIC UPRIGHT HAS BEEN KNOWN BRACE SCHEDULE (L, B) IN HORIZONTAL OR VERTICAL DISTANCE) THE SITE SPECIFIC UPRIGHT HAS BEEN KNOWN BRACE LENGTHS SHALL NOT EXCEED WHAT IS GIVEN IN THE UPRIGHT 1 + 1/4 INCH DEPTH. THE SPAN IS CHOSEN BY EACH UPRIGHT (L = SEAM LENGTH, B = SEAM DEPTH OF UPRIGHT). THE UPRIGHT MAILS ARE 1/4 INCH DEPTH OF UPRIGHT 1 + 1/4 INCH DEPTH.

IF THERE ARE NO KNEE BRACES THEN THE SPAN IS CHOSEN BY THE UPRIGHT 1 + 1/4 INCH DEPTH. THE SPAN IS CHOSEN BY EACH UPRIGHT (L = SEAM LENGTH, B = SEAM DEPTH OF UPRIGHT). THE UPRIGHT MAILS ARE 1/4 INCH DEPTH OF UPRIGHT 1 + 1/4 INCH DEPTH.

BRACE MEMBER SIZE IS CHOSEN BY THE SPAN BETWEEN THE KNEE BRACES, TYPICALLY (N.O.)

CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347. SEE TYPICAL DETAILS FOR CAMBER REQUIREMENTS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAIRS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CONCRETE CAN BE PLACED IN THE DRY, ALL BACKFILL BE ACCOMPLISHED USING MATERIAL CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION BRACING IN ACCORD WITH GEOTECHNICAL ENGINEER RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES, AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

- SHALLOW FOOTINGS w/ ALLOWABLE BEARING = 2,000 PSF
(*) TO BE VERIFIED BY GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION)

STRUCTURAL CONCEPTS & DESIGN LLC AS THE STRUCTURAL ENGINEER OF RECORD HAS DESIGNED AND IS RESPONSIBLE FOR ONLY THE SPECIFIC STRUCTURAL COMPONENTS SHOWN IN THIS SET OF STRUCTURAL CONSTRUCTION DOCUMENTS. IF A SPECIALTY ENGINEER, AS DEFINED BY THE DEPARTMENT OF PROFESSIONAL REGULATION, IS REQUIRED, HIS SERVICES MUST COMPLY WITH THE SCOPE OF SERVICES AS OUTLINED IN THE PROJECT CONSTRUCTION DOCUMENTS.

02000 FOUNDATIONS

GEOTECHNICAL DATA AND RECOMMENDATIONS HAVE BEEN NOT BEEN PROVIDED AT THE TIME THESE DRAWINGS WERE ISSUED. BASED ON SIMILAR PROJECTS IN THE AREA, THE FOLLOWING FOUNDATION SYSTEM WILL BE USED:

01100 SCOPE OF SERVICE;

1) DIMENSIONAL INFORMATION, PRICING, ALL DETAILS AND CONSTRUCTION SHALL BE BASED ON THE ENTIRE SET OF CONTRACT DOCUMENTS, COORDINATE THE REQUIREMENTS OF ALL PROFESSIONALS. SUPPLEMENTATION FROM APPROVED SHOP DRAWINGS TO SUPPLEMENT CONTRACT DOCUMENTS WHERE NECESSARY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.

SCREEN FRAME WALL w/ GUARDRAIL.

- GUARDRAIL. 20 LB/FT UNIFORM LOAD IN ANY DIRECTION or 200 LB CONCENTRATED LOAD (WHICHEVER IS GREATER)

- COMPONENT & CLADDING PRESSURES = ± 18.6 PSF (NOMINAL)
- INTERNAL PRESSURE COEFFICIENTS = N/A (OPEN STRUCTURE)
- RISK CATEGORY = "III"
- EXPOSURE CATEGORY = "B"
- BASIC NOMINAL WIND SPEED (V_{50}) = 124 MPH (3 SECOND GUST)
- BASIC ULTIMATE WIND SPEED (V_{157}) = 160 MPH (3 SECOND GUST)
- ALL COMPONENTS AND CLADDING PRESSURES = ± 18.6 PSF (NOMINAL)

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

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

00500 STRUCTURAL DESIGN CRITERIA

TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, & INSTALLED BY THE CONTRACTOR, TYPICALLY

- DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED, TYPICALLY IN THE CASE OF DIMENSIONAL CONFLICT, ARCHITECTURAL DIMENSIONS
- CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, & CIVIL DOCUMENTS. SCAD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCY OR OMISSION
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM.

GENERAL DRAWING NOTES.

APPLICABLE PROVISIONS OF CONCRETE REINFORCEMENT, CAST IN-PLACE CONCRETE, AND CONCRETE MASONRY VERTICAL REINFORCING SHALL ANCHOR INTO SUPPORTING CONCRETE MEMBERS A CLASS "B" LAP LENGTH PLUS 3" OR FULL DEPTH PLUS 3" STANDARD HOOK. LAP WITHIN REINFORCED MASONRY SHALL DEPTH PLUS 4 BAR DIAMETERS. CONTRACTOR SHALL COORDINATE PLACING OF DOUBLES TO ACCOMMODATE MODULE OR MASONRY UNITS. THE VERTICAL CELLS AND BEAMS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3,000 PSI CONCRETE WITH #3 COARSE AGGREGATE. USE HIGH-LUMP (SUPERPLASTICIZED) WHERE HEIGHT OF LIFT EXCEEDS 5'-0" WHERE HEIGHT OF OPEN CELL EXCEEDS 5'-0". USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS. AT ALL WALLS TO BE REINFORCED WITH #5 BARS SPACED AT 48" O.C. MAX. VERTICAL TYP (U.N.O.)

ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR CONCRETE MASONRY CONSTRUCTION", ACI 550.1-02 AND ALL APPLICABLE LOCAL BUILDING CODE PROVISIONS, ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C 90, AND REINFORCED WITH #9 GAUGE LADDER TYPE HORIZONTAL REINFORCEMENT LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE 5 MORTAR (1,080 PSI OR NO. 10 JOBS) WITH FULL HEAD AND JOINTS, THE COLUMN MEMBERS OR TIE TO GUARANTEE DOVetail ANCHOR SPACED @ 16" O.C. (TOP AND TWO VERTICAL SIDES)

- CEMENT GROUT 1,800 PSI
- NON-SHRINK GROUT 5,000 PSI
- PRECISION GROUT 6,500 PSI

04220 CONCRETE UNIT MASONRY.

USE ONLY IN INTERIOR APPLICATIONS NOT EXPOSED TO VIEW IN
FINISHED BUILDING AREAS. USE ORDINARY CEMENT GROUT ONLY WHERE
SPECIFICALLY NOTED AS "CEMENT GROUT" ON DETAILS. USE NON-SHRINK
GROUT FOR ALL OTHER LOCATIONS. PRECISION GROUT SHALL CONFORM
TO CSD-621-80 WHEN MIXED TO FLUID CONSISTENCY OF 22 TO 25
SECONDS (FLOW CONE METHOD, CRD-611-80) REQUIRED 28 DAY
STRENGTHS SHALL BE AS FOLLOWS:

OPERATING MACHINE BASES, EQUIPMENT SUBJECT TO THERMAL MOVEMENT, AND BASE PLATES, BEARING PLATES, AND EXPANSION BEARINGS EXCEEDING 8 IN LEAST DIMENSION ALL OTHER GROUTING MAY BE ORDINARY GROUTING. METALLIC ACCURATE GROUT MAY BE

NOTED OTHERWISE)

- SLASH-
- FOUNDATIONS-

Fc = 3,000 PSI
Fc = 3,000 PSI

03600 GROUT

TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301-99. ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS (ALL STRUCTURAL ELEMENTS SHALL BE $f'_c = 4,000$ PSI UNLESS OTHERWISE NOTED):

CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORDANCE WITH ACI 318

LAP SPlice LENGTHS SHALL BE AS FOLLOwS:

1 ALL LAP SPICES SHALL BE TENSION CLASS "B" UNLESS OTHER LAP

CONDITIONS ARE SPECIALLY SHOWN ON THE DRAWINGS.

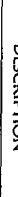
2 SPICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.

3 USE STEEL A36 OR A572 GR 50 UNLESS OTHERWISE SPECIFIED.

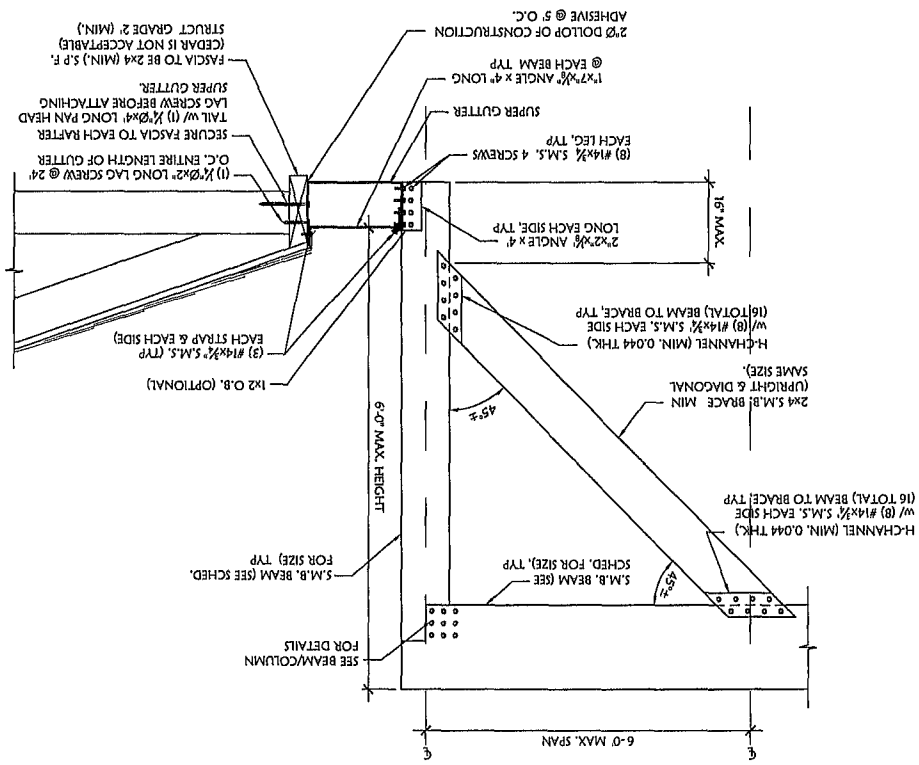
A.	CAS1 AGAINST1 AND EXPOSED TO EARTH.	3"
B.	FORMED, EXPOSED TO EARTH OR WEATHER.	2 (#6 & LARGER)
C.	SLABS AND WALLS:	1 1/2" (#5 & SMALLER)
	NO EARTH OR WEATHER EXPOSURE	3/4" (#11 & SMALLER)

COVER REQUIRED AS FOLLOWS:

03200 CONCRETE REINFORCEMENT

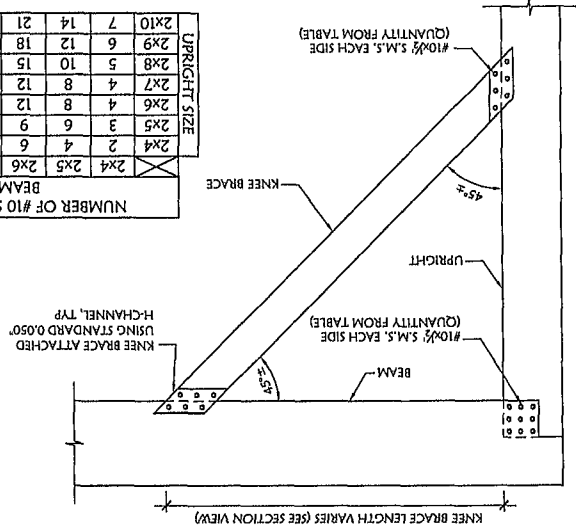
Project: Residential Pool Screen Enclosure _____, Florida		Structural Notes & Connection Detail 13533
Client:  Florida Pool Enclosures, Inc. 922 HICKORY STREET • A111 MOUNTAIN SPRINGS, FL 32071 Phone: (352) 683-0000 • Fax: (352) 683-0500		
DESCRIPTION	DATE	REV
Project No. #13-002.12		
Drawn By: TLW	Checked By: RCS	Approved By: RCS
Date: 09/18/13		
Sheet		

4 Transom Upright to Super Gutter Connection Detail

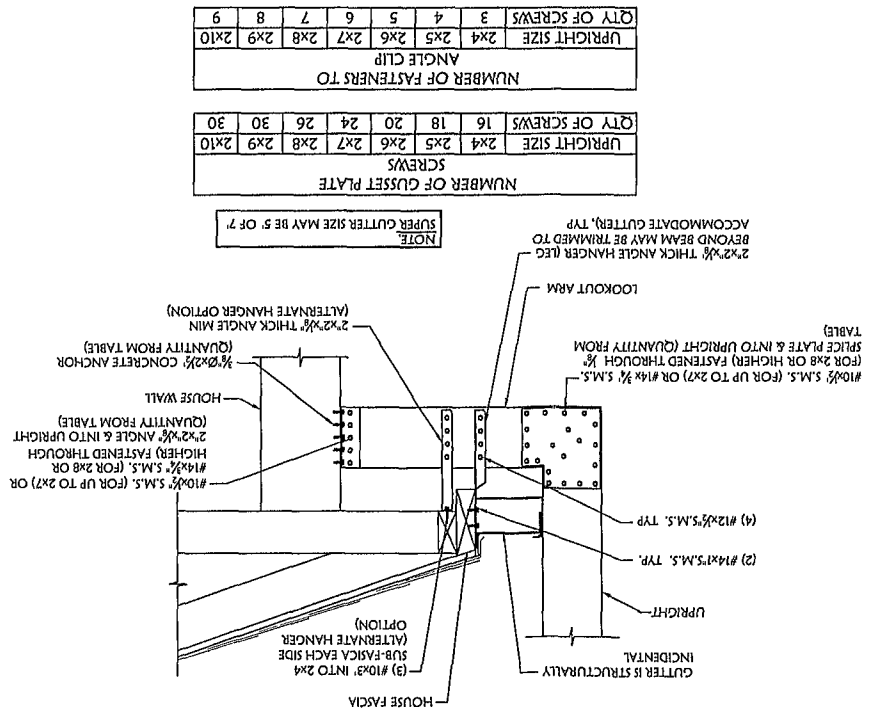


NUMBER OF #14 S.M.S REQUIRED										JERICHO SIZE
2x4	2x5	2x6	2x7	2x8	2x9	2x10	6	8	14	
20	18	16	14	12	10	8	6	5	4	2x10
20	18	16	14	12	10	8	6	5	4	2x8
20	18	16	14	12	10	8	6	5	4	2x6
20	18	16	14	12	10	8	6	5	4	2x4

NUMBER OF #10 S.M.S. REQUIRED		BEAM SIZE	
		2x4	2x6
UPRIGHT SIZE	2x4	2	2
	2x5	3	3
	2x6	4	4
	2x7	4	4
	2x8	5	5
	2x10	7	7
2x10	2x4	2	2
	2x5	3	3
	2x6	4	4
	2x7	4	4
	2x8	5	5
	2x10	7	7

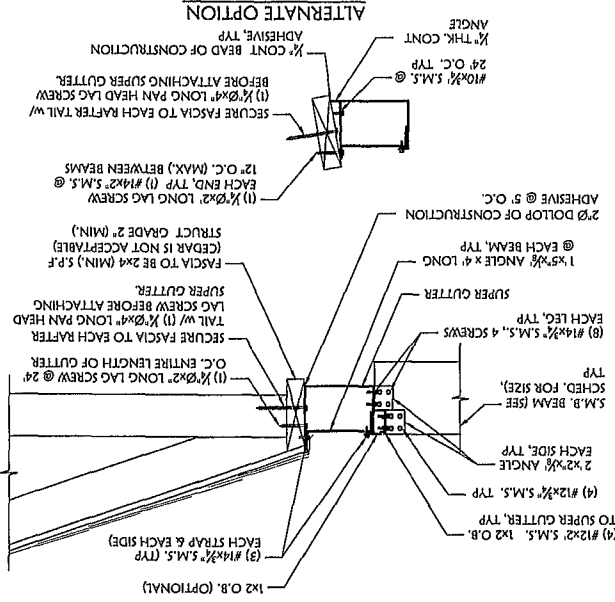


2) Lookout Arm Connection Detail

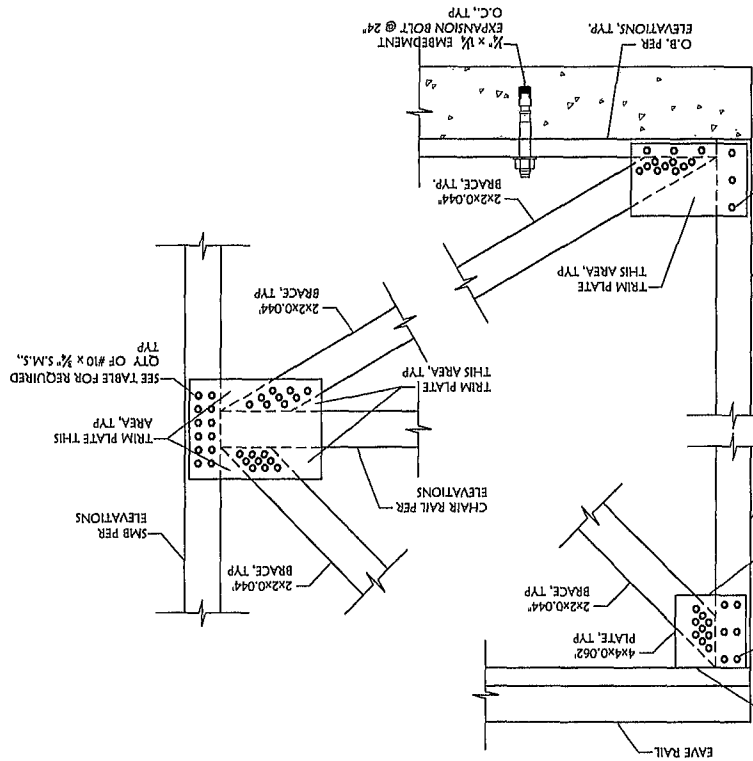


UPRIGHT SIZE		QTY OF SCREWS	
2x4	2x4	2x5	16
2x4	2x5	2x6	18
2x6	2x7	2x7	20
2x8	2x8	2x9	24
2x9	2x9	2x10	30

3 Roof Beam to Super Gutter Connection



5 Typical K-Brace Connection Detail



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.

Residential Pool Screen Enclosure

Structural Framing Sections & Details

Florida Pool Enclosures, Inc.

S-2.1

they

09/81/60

By: RCS

RCS

A71.1 :

D. #13-002.12

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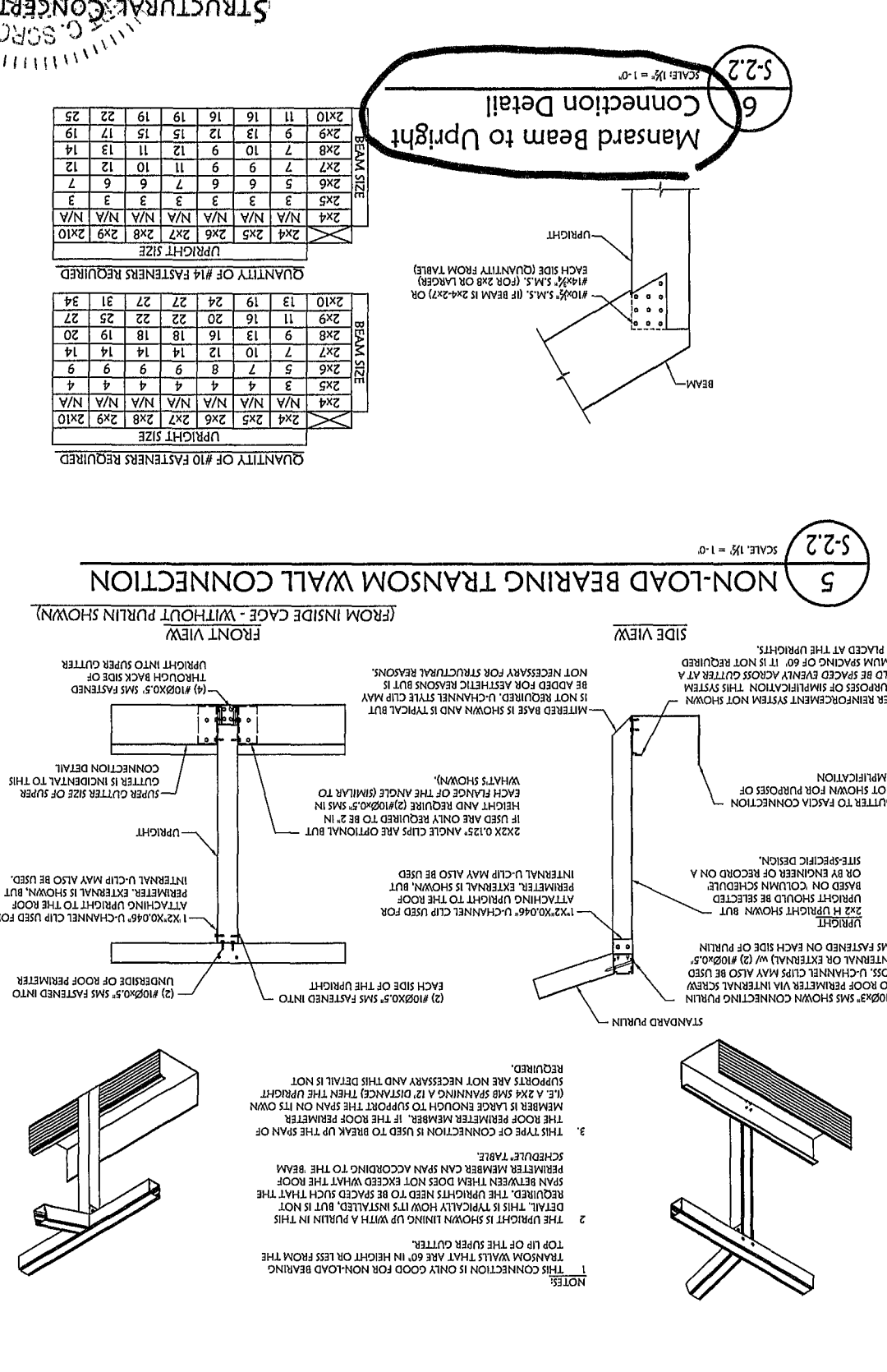
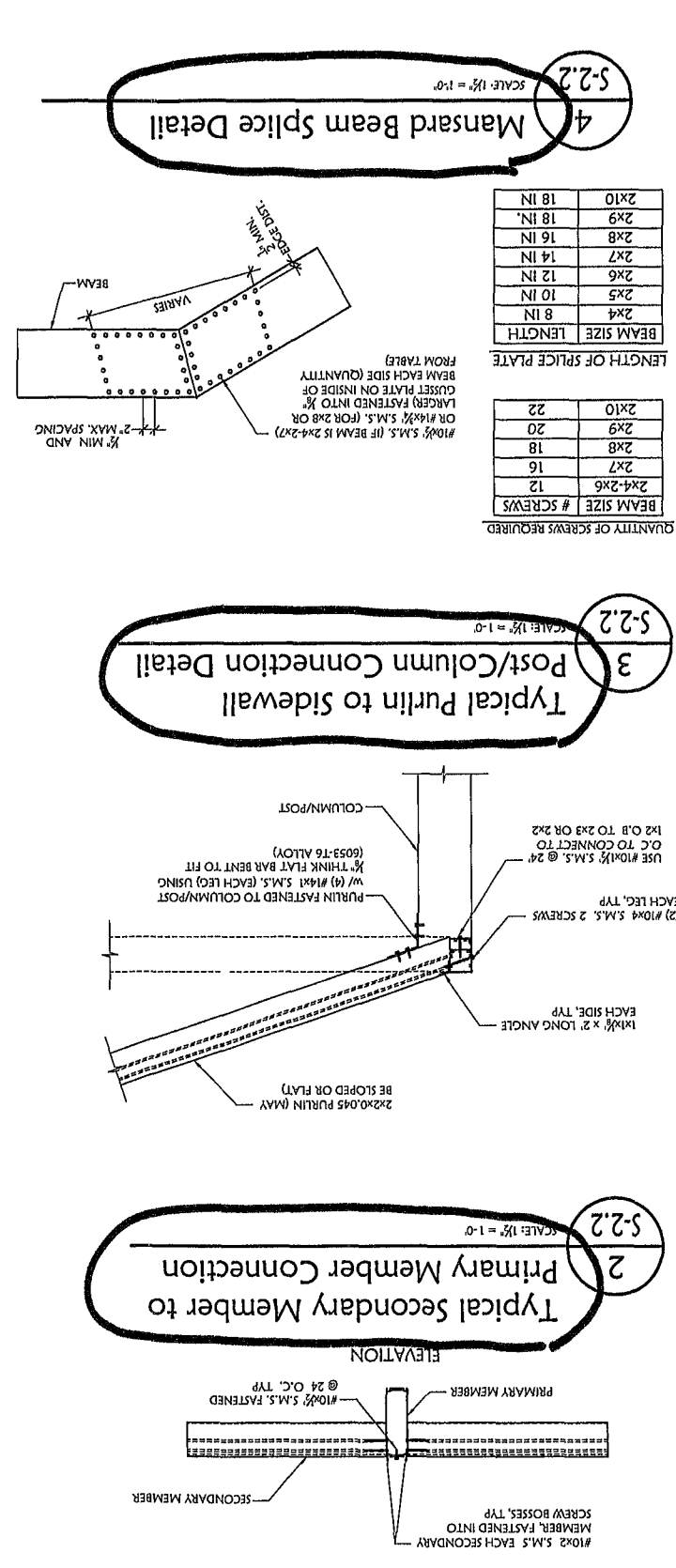
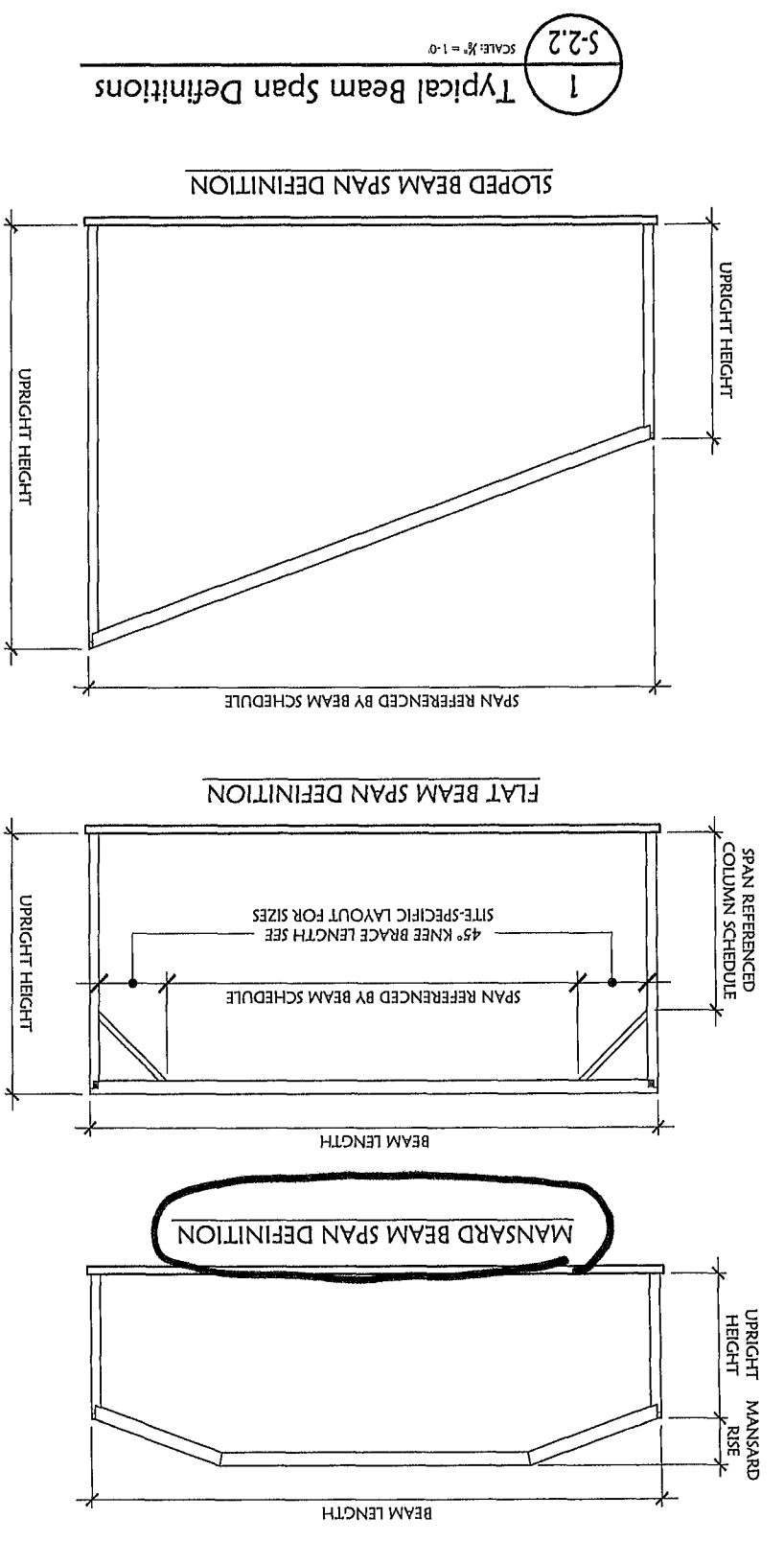
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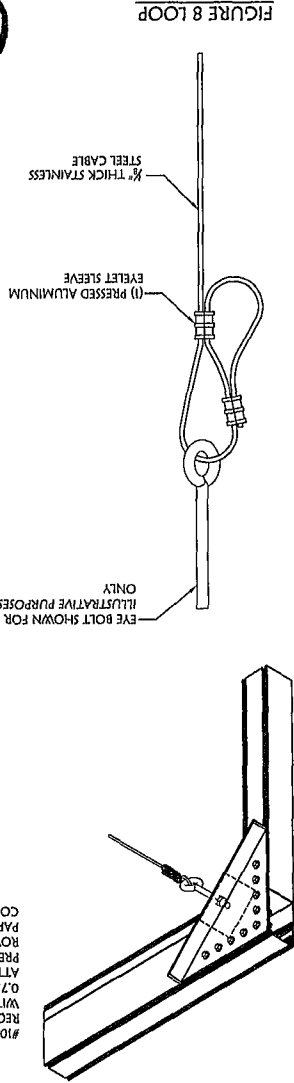
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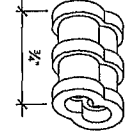




SINGLE LOOP

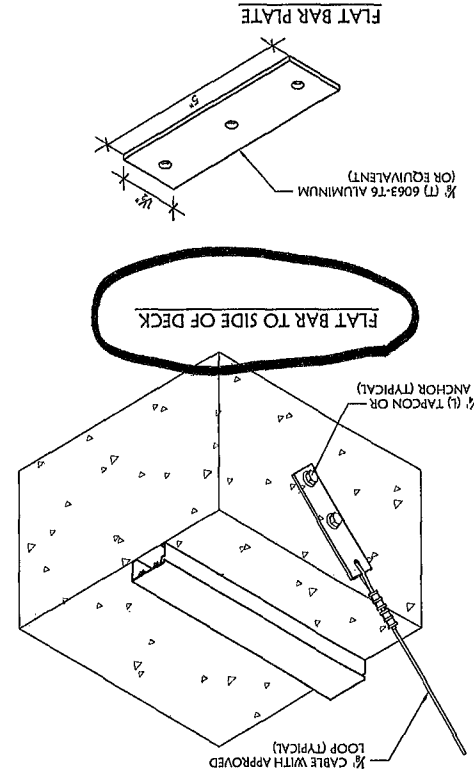
- CABLE CONNECTION NOTES:**
1. TO DETERMINE THE QUANTITY OF CABLES NEEDED FOR A SCREEN WALL BRACED ON ONE SIDE BY A HOST CABLE ON A WALL THAT IS LESS THAN 250 S.F.
CALCULATED VALUE TO THE TOTAL SQUARE FOOTAGE OF THE BRACED WALL AND DIVIDE BY 250. ROUND THE
STRUCTURE TAKE THE TOTAL SQUARE FOOTAGE OF THE BRACED WALL AND DIVIDE BY 250. ROUND THE
CABLE ON A WALL THAT IS LESS THAN 250 S.F.
EXAMPLE: 430 S.F. / 250 = 1.72 -> ROUNDS TO 2 -> 2 = 1 CABLE
EXAMPLE: 230 S.F. / 250 = 0.92 -> ROUNDS TO 1 -> 1 = 0 CABLES
 2. TO DETERMINE THE QUANTITY OF CABLES NEEDED FOR AN UNBRACED SCREEN WALL, TAKE THE TOTAL SQUARE
FOOTAGE OF THE UNBRACED WALL AND DIVIDE BY 250. ROUND THE CALCULATED VALUE TO THE CLOSEST
WHOLE NUMBER AND MULTIPLY BY 2. IT IS REQUIRED THAT AN UNBRACED SCREEN WALL HAVE AN EQUAL
AMOUNT OF CABLES OPPOSING EACH OTHER.
EXAMPLE: 535 S.F. / 250 = 2.14 -> ROUNDS TO 2 -> 2 * 2 = 4 CABLES (2 PAIRS OF OPPOSING CABLES)
EXAMPLE: 780 S.F. / 250 = 3.12 -> ROUNDS TO 3 -> 3 * 2 = 6 CABLES (3 PAIRS OF OPPOSING CABLES)
 3. ANY ONE OF THE APPROVED CABLE-TO-DECK ATTACHMENTS SHOWN MAY BE USED. FIELD CONDITIONS WILL
DICTATE THE TYPE OF ATTACHMENT USED AND MAY CHANGE DYNAMICALLY FROM THE ORIGINAL DESIGN
INTENT. THIS HAS NO BEARING ON THE STRUCTURAL INTEGRITY OF THE ENCLOSURE AND
THEREFORE IS ALLOWED TO BE DONE, AS LONG AS ONE OF THE APPROVED ATTACHMENT DETAILS IS UTILIZED.
 4. CABLES MAY ATTACH THROUGH PAVERS AS LONG AS THE MINIMUM CONCRETE EMBEDMENT OF 1 1/2" IS
ACHIEVED BY USING A LONGER TAPCON
 5. MINIMUM CONCRETE EDGE DISTANCE FOR ALL CONCRETE FASTENERS IS 2 1/2"
 6. CABLES SHOULD BE AT A 45° ANGLE TO THE VERTICAL UPRIGHTS (±15°).

PRESSED EYELET SLEEVE
SHOWN AFTER BEING MECHANICALLY PRESSED

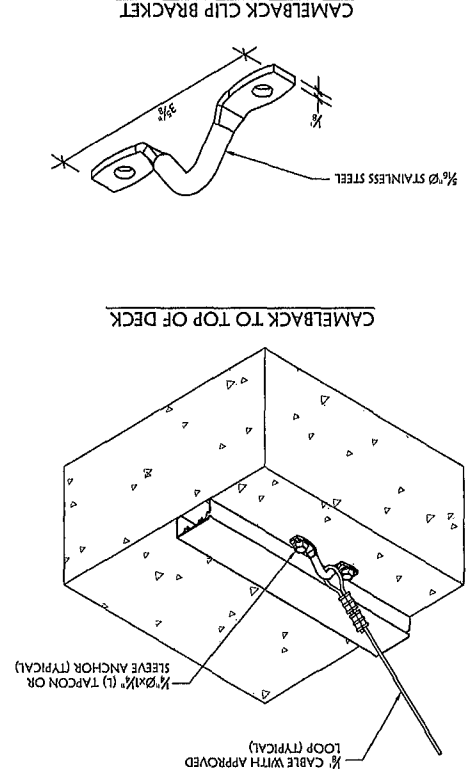
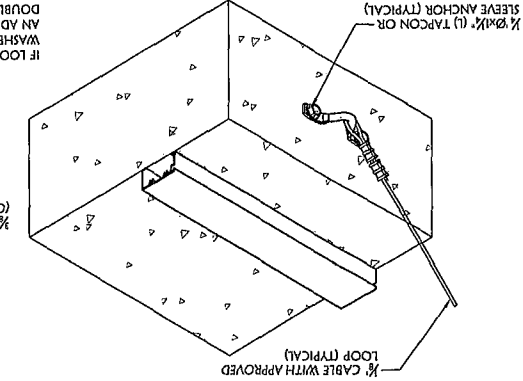


TRIANGLE PLATE TOP ATTACHMENT

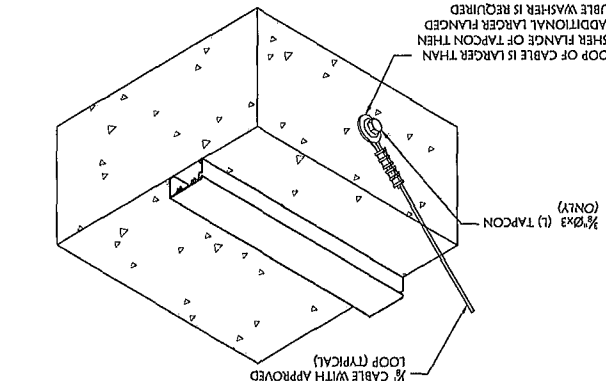
- FRAMING COMPONENTS SHOWN
FOR ILLUSTRATIVE PURPOSES ONLY.
- 1x2x0.125 ANGLE IS TO BE USED IN
THE CASE WHERE THE TRIANGLE
PLATE IS LESS THAN 1/2" THICK
- IF THE COMPONENT THAT THE CABLE IS BEING
ATTACHED TO IS CONFIGURED IN SUCH A WAY THAT
PREVENTS TWO PERPENDICULAR ROWS, THEN A SECOND
ROW OR COLUMN OF FASTENERS MAY BE ADDED
PARALLEL (BUT NOT COLLINEAR) TO THE DEFAULT ROW OR
COLUMN OF FASTENERS AT ALTERNATING SPACING.
- REQUIREMENT: MAX SPACING BETWEEN FASTENERS IS 2"
WITH THE MINIMUM SPACING BETWEEN FASTENERS AT
0.75" IF THE COMPONENT THAT THE CABLE IS BEING
ATTACHED TO IS CONFIGURED IN SUCH A WAY THAT
PREVENTS TWO PERPENDICULAR ROWS, THEN A SECOND
ROW OR COLUMN OF FASTENERS MAY BE ADDED
PARALLEL (BUT NOT COLLINEAR) TO THE DEFAULT ROW OR
COLUMN OF FASTENERS AT ALTERNATING SPACING.
- 1/2" THICK TRIANGLE
PLATE
- 45° ±15°
- 1/2" THICK CABLE WITH APPROVED
LOOP ATTACHED TO THE EYE BOLT
- 1/2" STAINLESS STEEL WELDED EYE BOLT WITH
ONE STANDARD NUT ON THE BOTTOM SIDE
AND TWO STANDARD NUTS ON THE TOP OF
THE TRIANGLE PLATE. A SINGLE LOCK NUT MAY
BE USED IN PLACE OF THE TWO STANDARD
NUTS ON TOP



CAMELBACK TO SIDE DECK



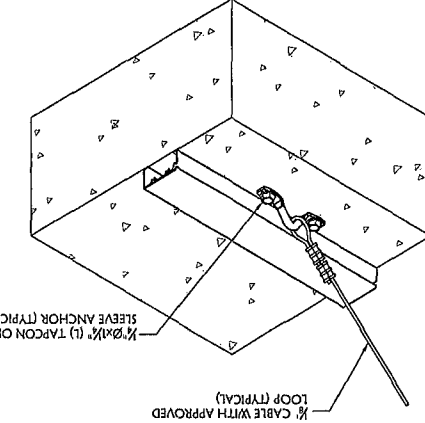
SINGLE CONCRETE FASTENER TO SIDE DECK



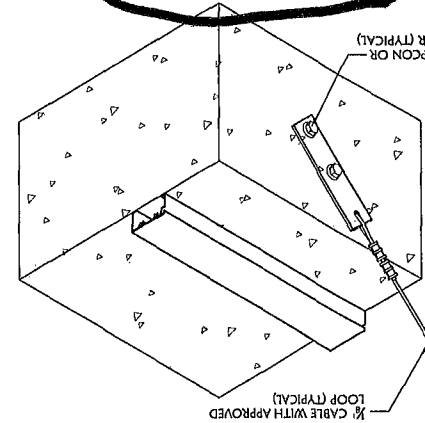
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S-2.5
Typical Cable Attachment Details



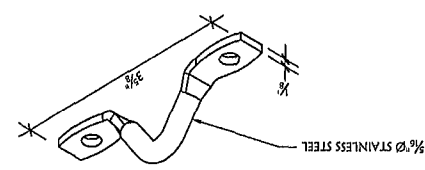
CAMELBACK TO TOP OF DECK



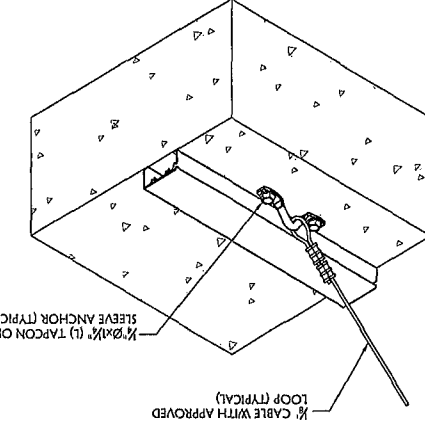
FLAT BAR TO SIDE OF DECK



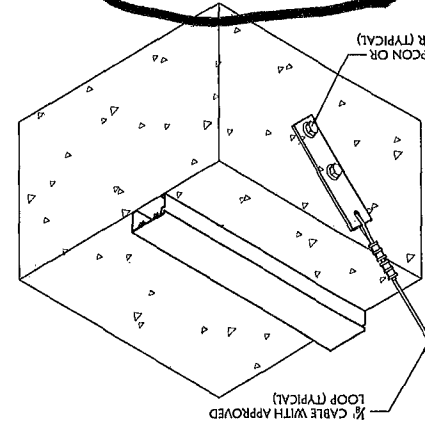
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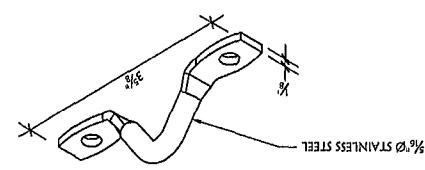
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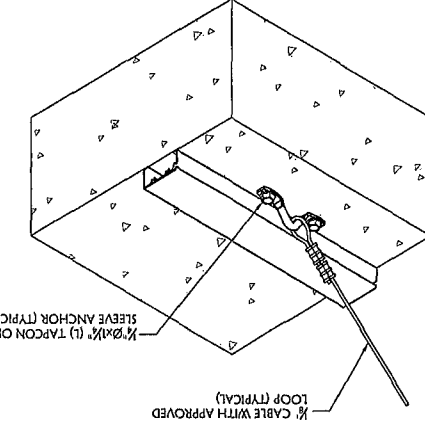
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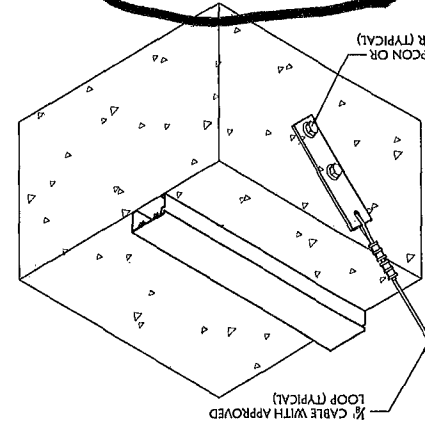
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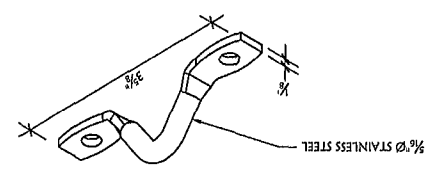
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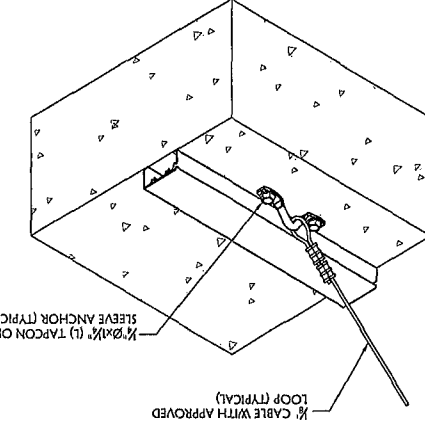
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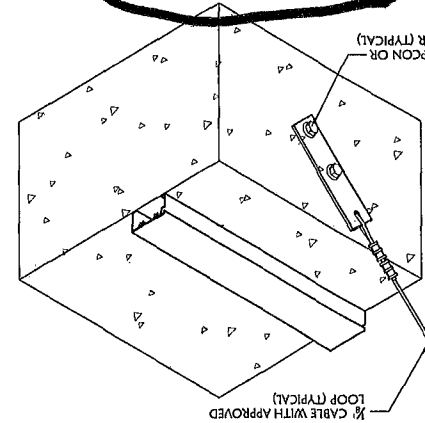
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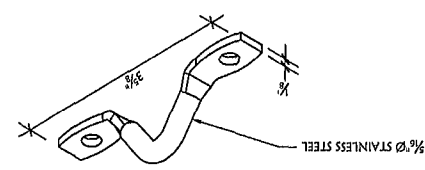
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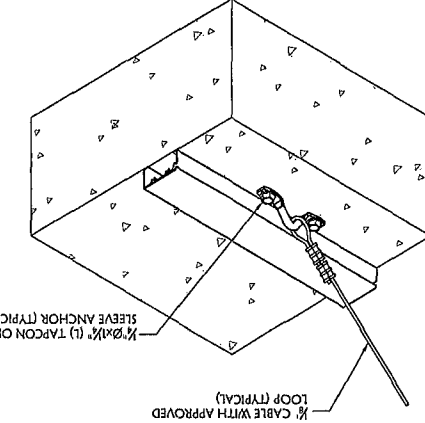
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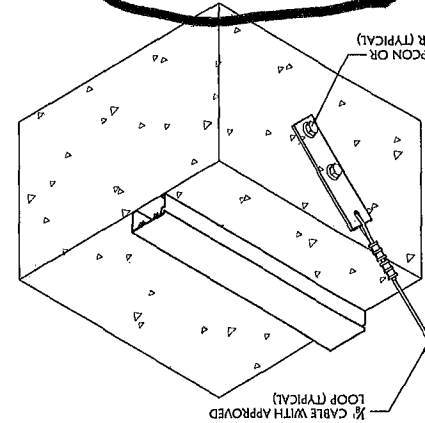
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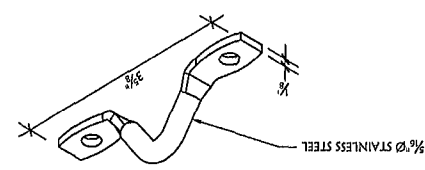
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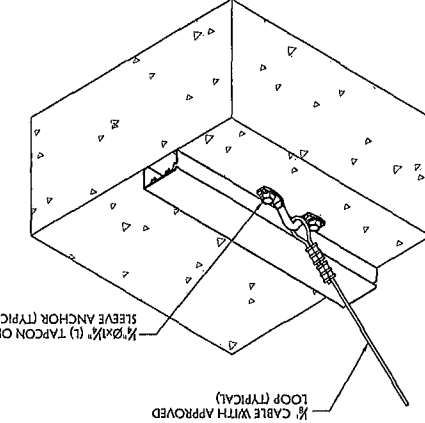
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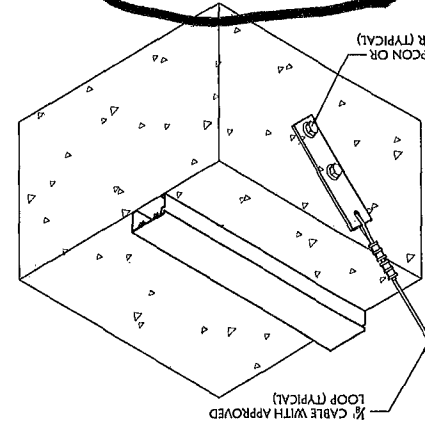
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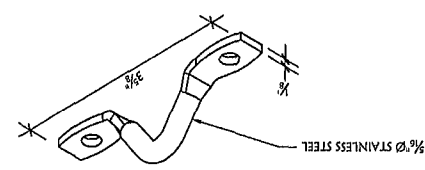
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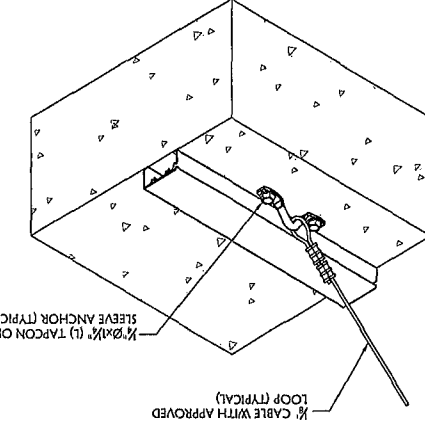
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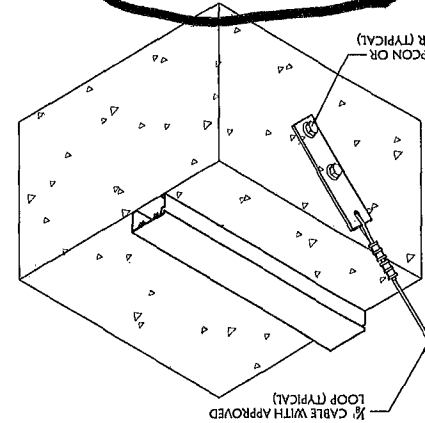
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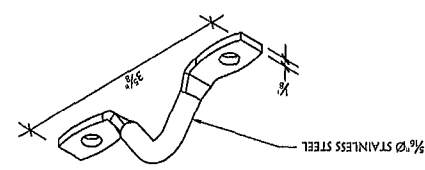
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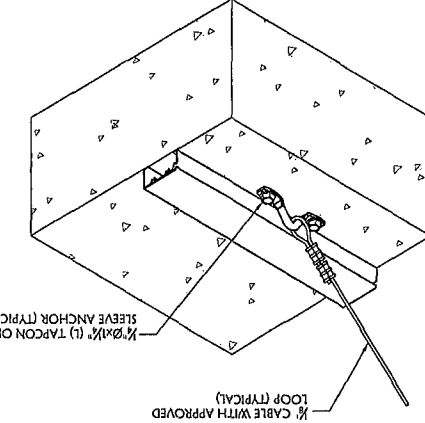
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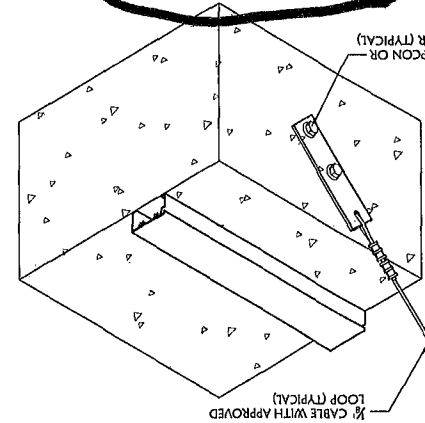
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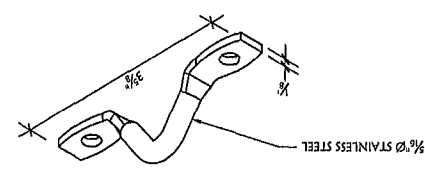
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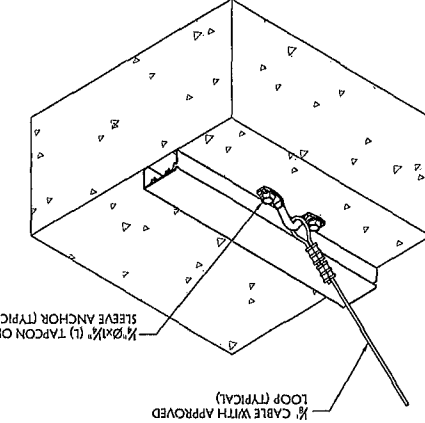
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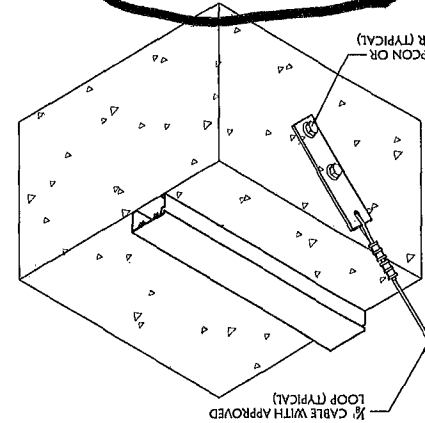
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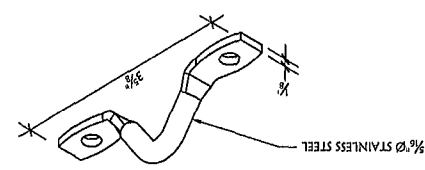
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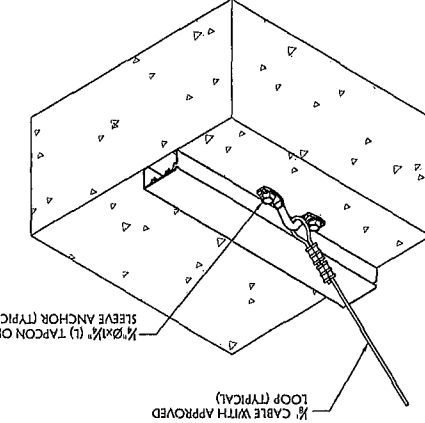
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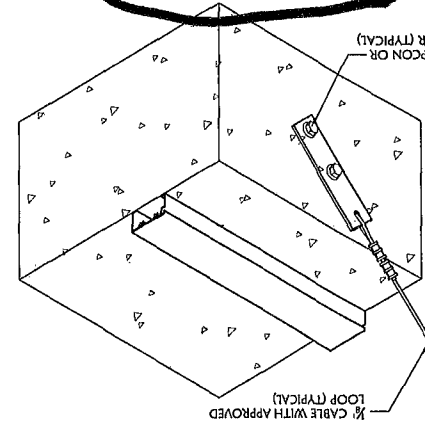
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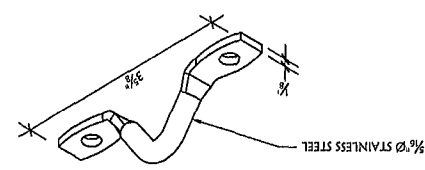
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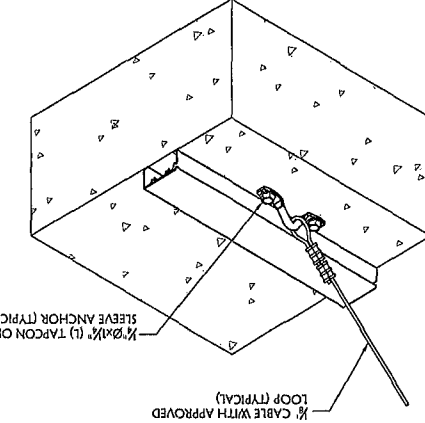
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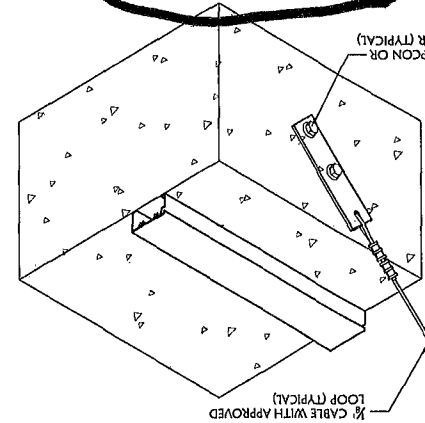
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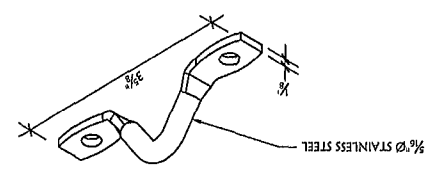
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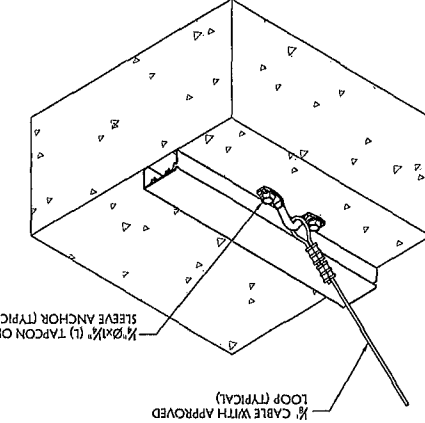
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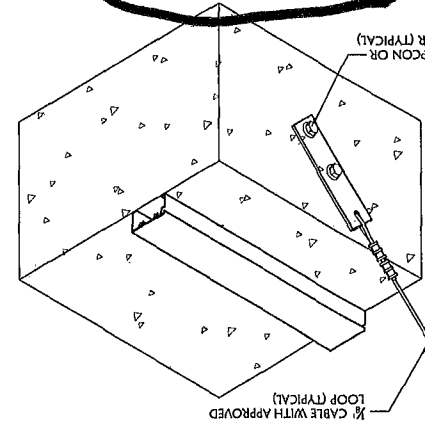
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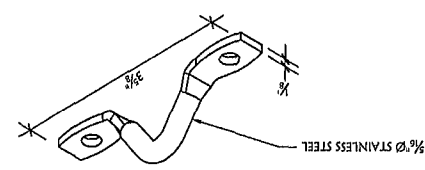
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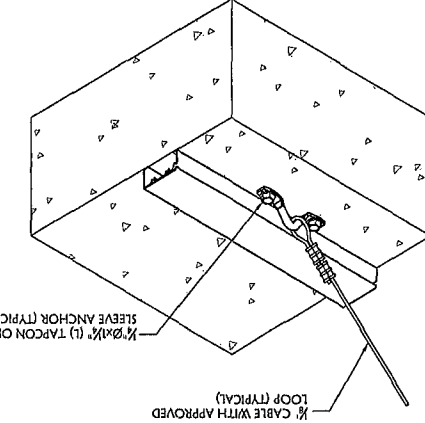
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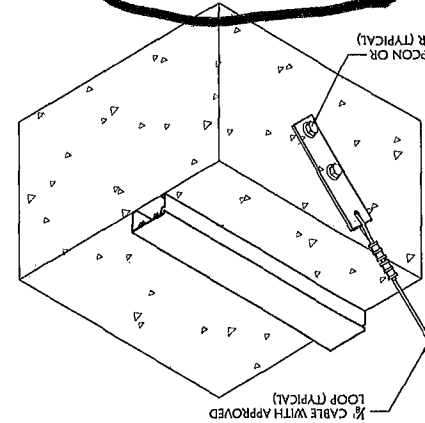
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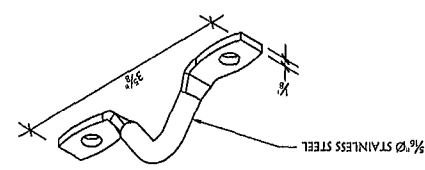
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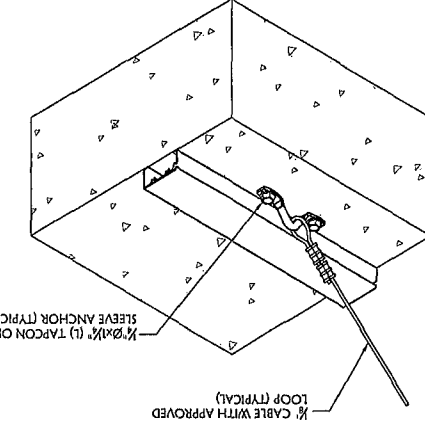
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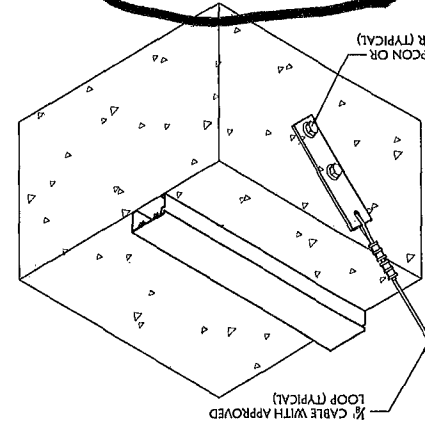
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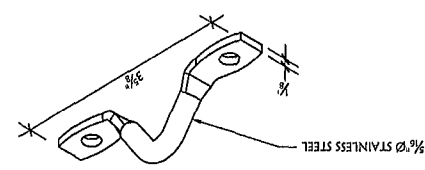
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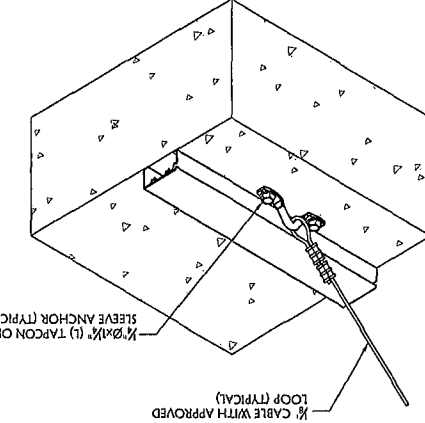
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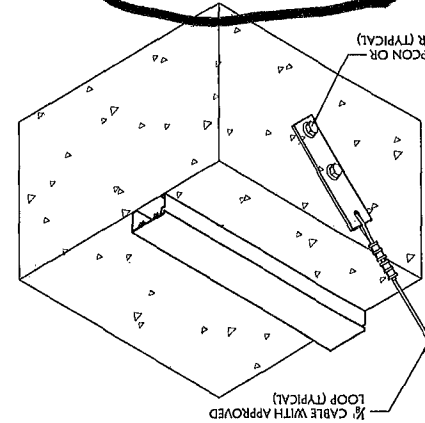
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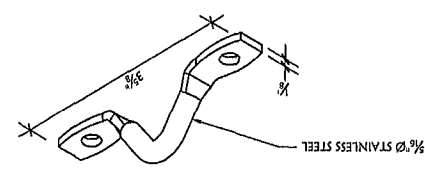
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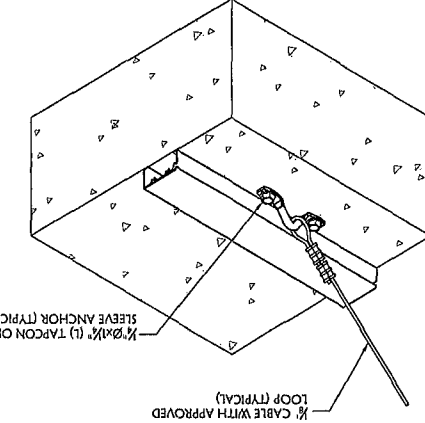
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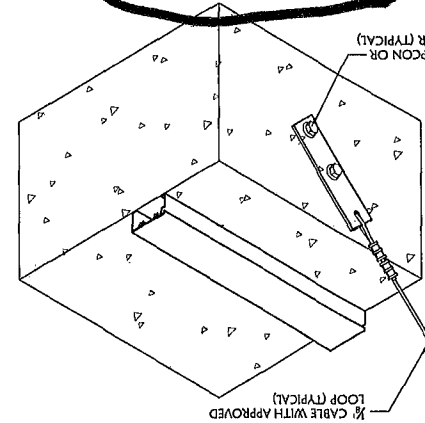
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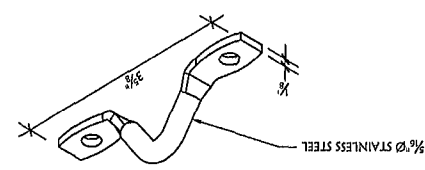
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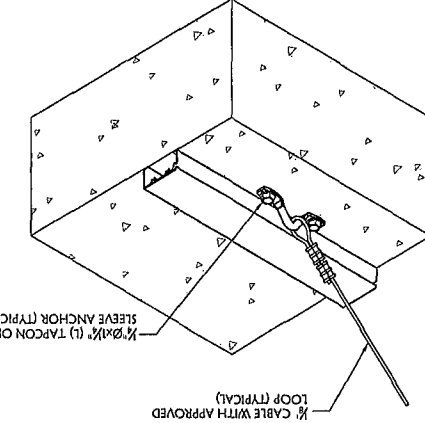
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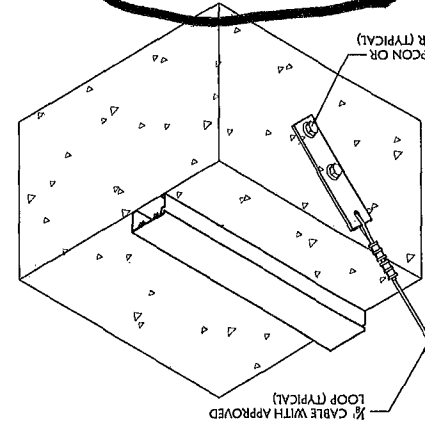
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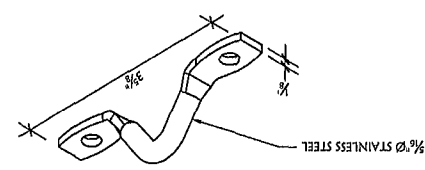
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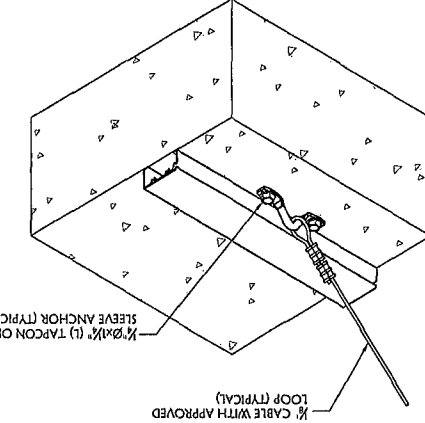
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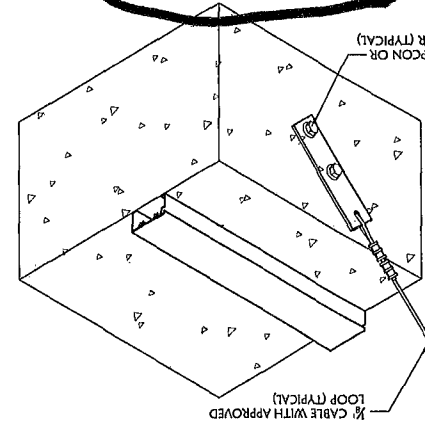
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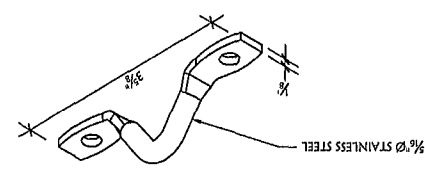
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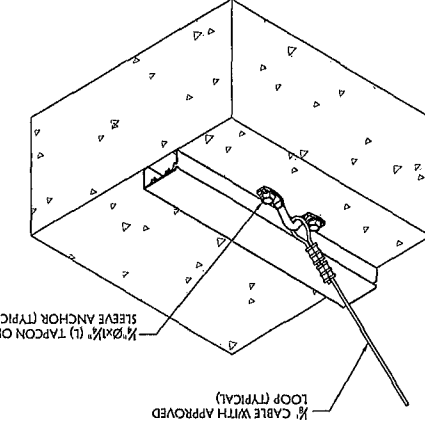
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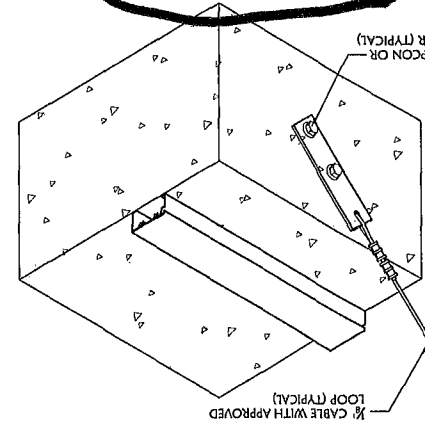
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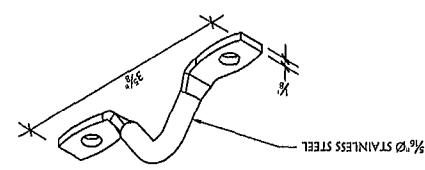
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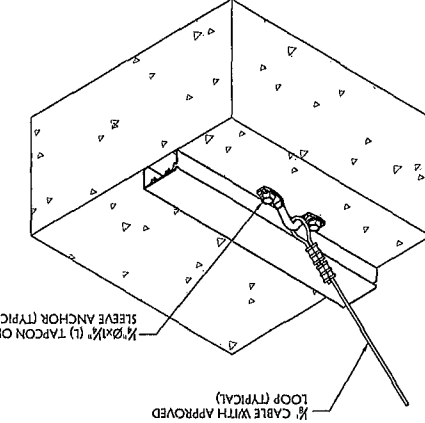
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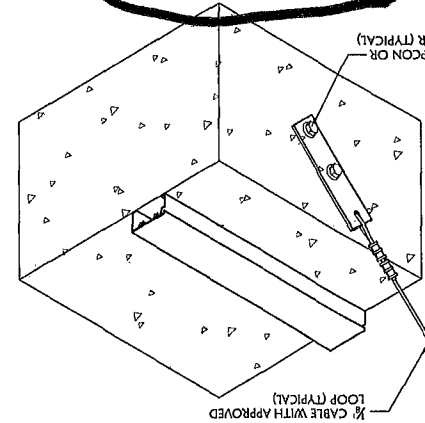
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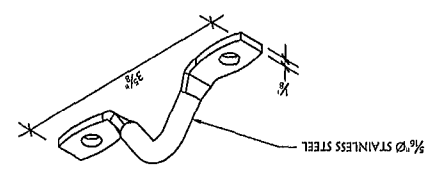
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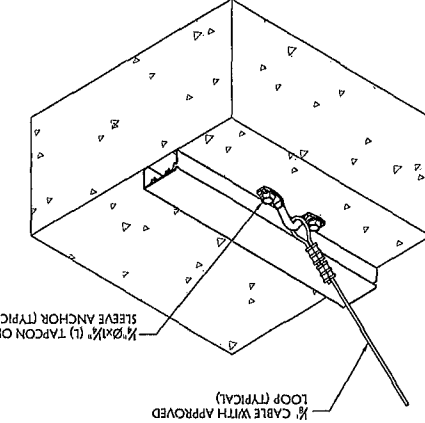
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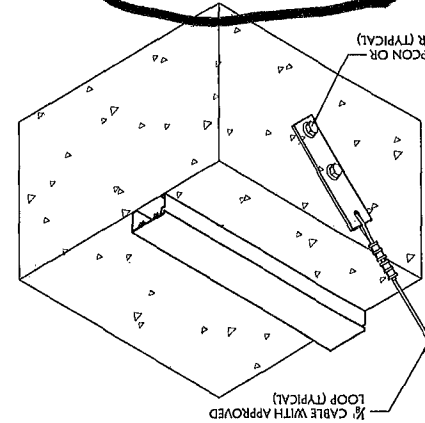
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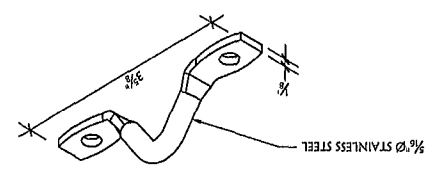
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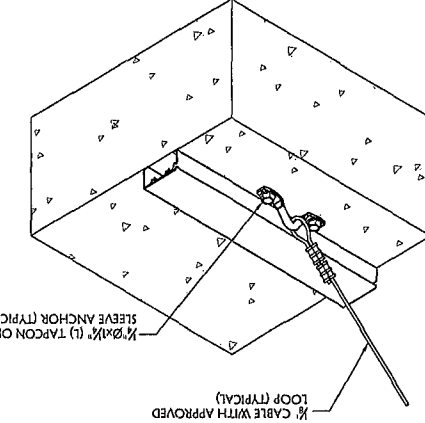
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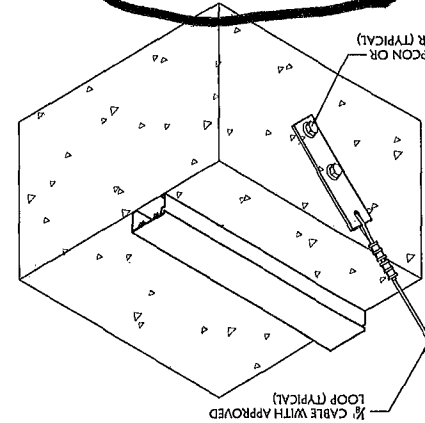
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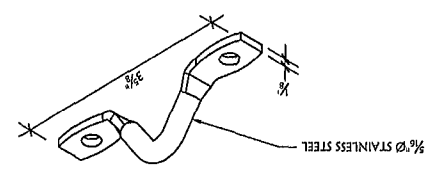
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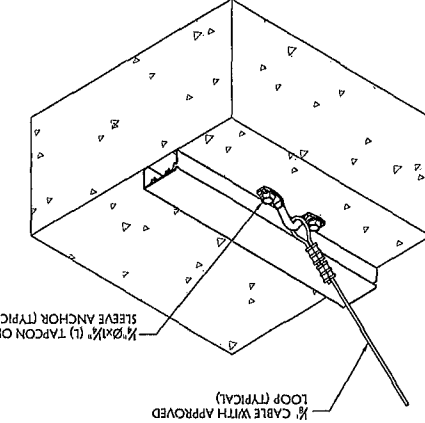
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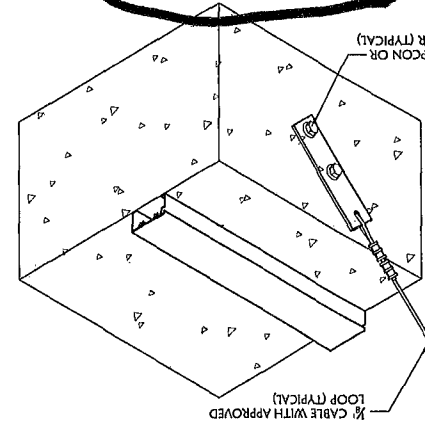
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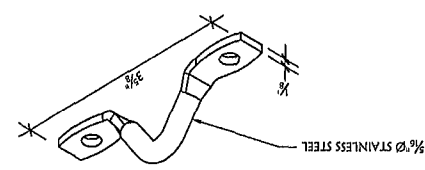
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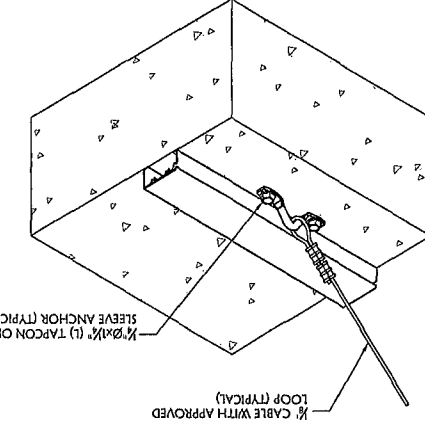
FLAT BAR TO SIDE OF DECK



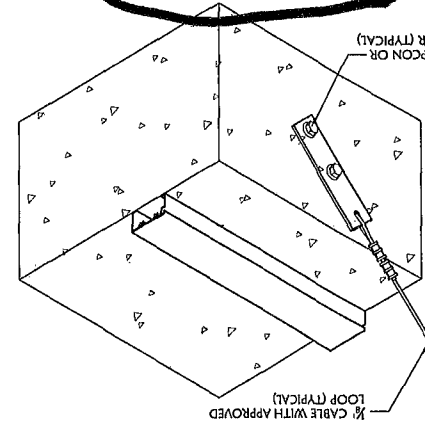
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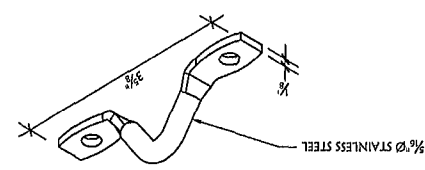
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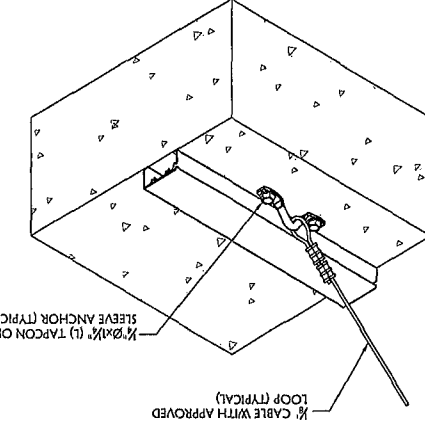
FLAT BAR TO SIDE OF DECK



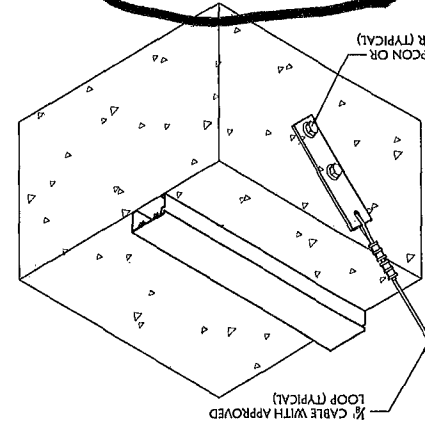
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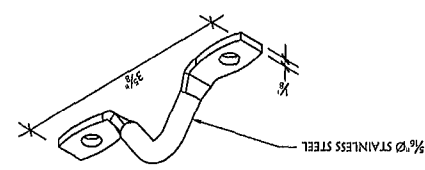
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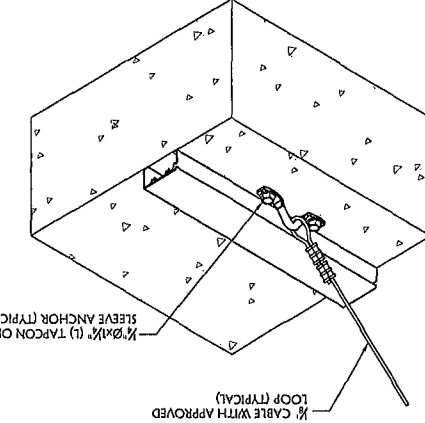
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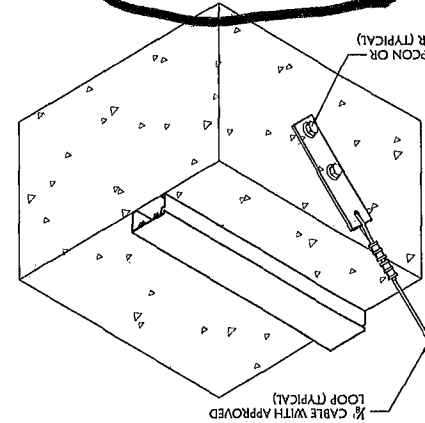
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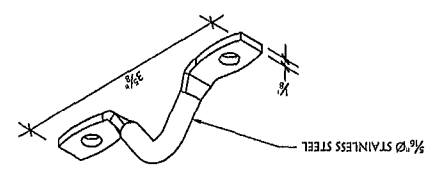
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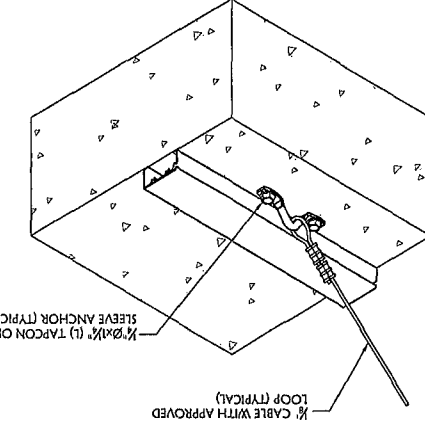
FLAT BAR TO SIDE OF DECK



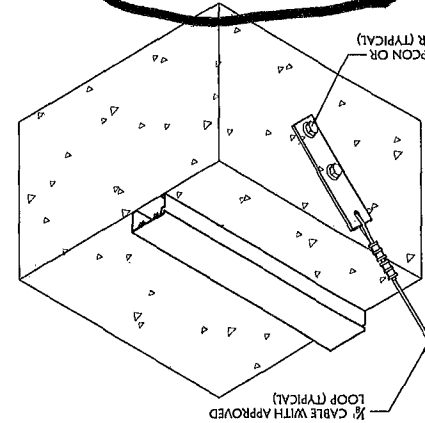
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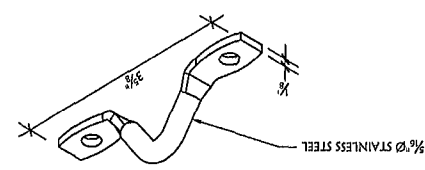
CAMELBACK TO TOP OF DECK



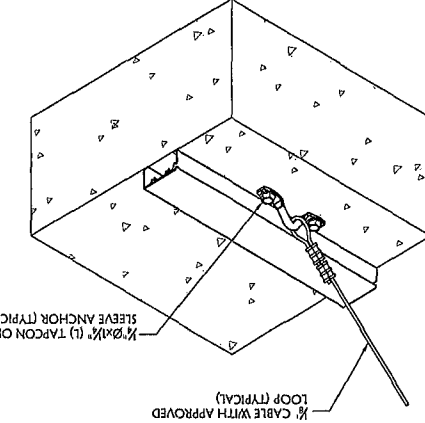
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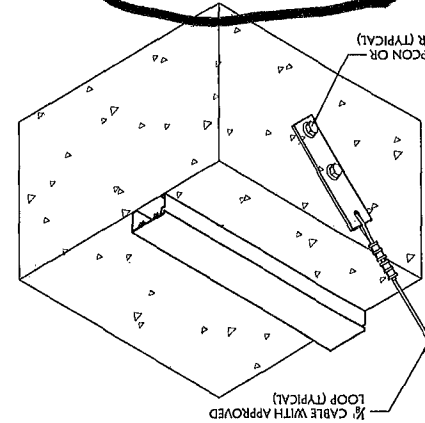
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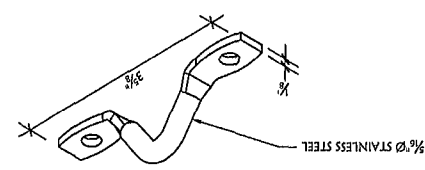
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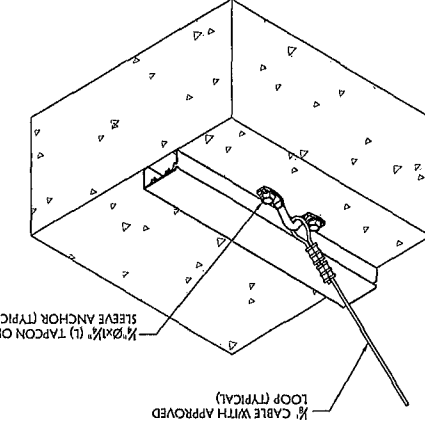
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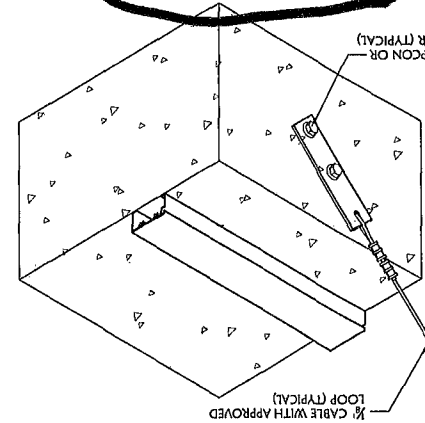
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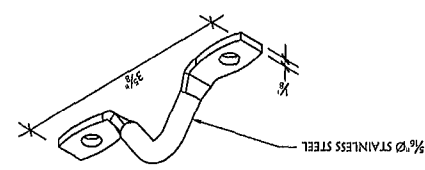
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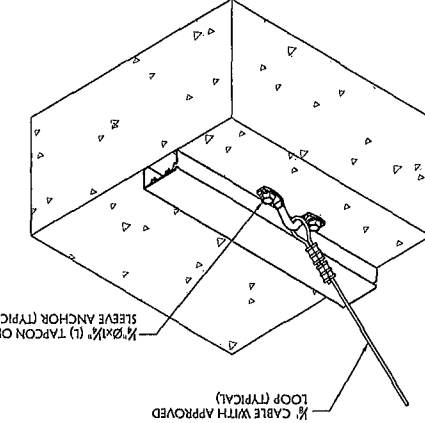
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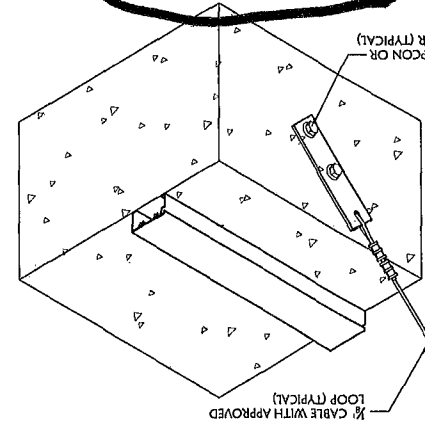
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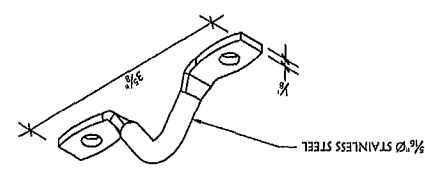
CAMELBACK TO TOP OF DECK



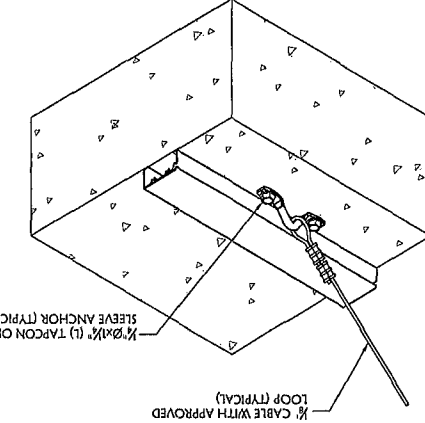
FLAT BAR TO SIDE OF DECK



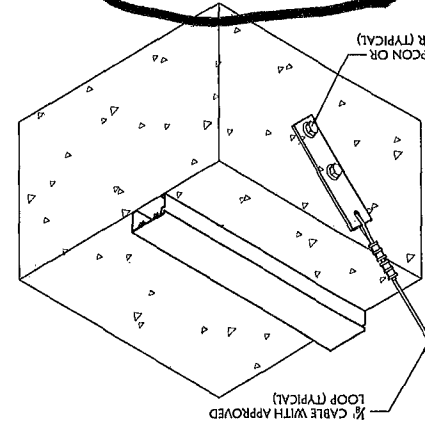
CAMELBACK CLIP BRACKET



CAMELBACK TO TOP OF DECK

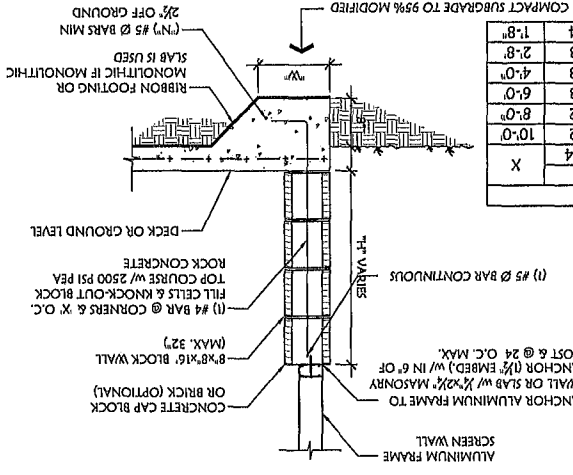


FLAT BAR TO SIDE OF DECK

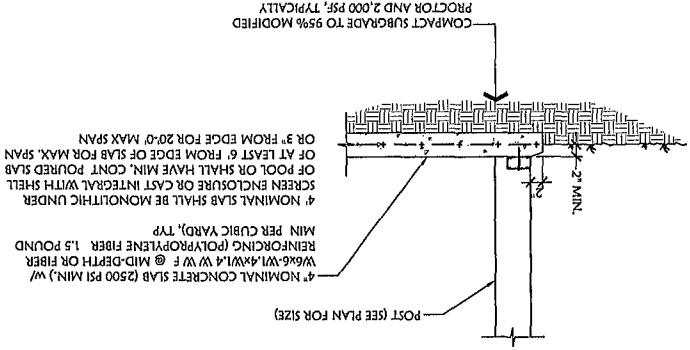


KNEE WALL TABLE			
H	W	N	
		#3	#4
32"	12"	3	2
40"	12"	3	2
48"	18"	N/A	3
56"	18"	N/A	3
64"	24"	N/A	3
72"	30"	N/A	4

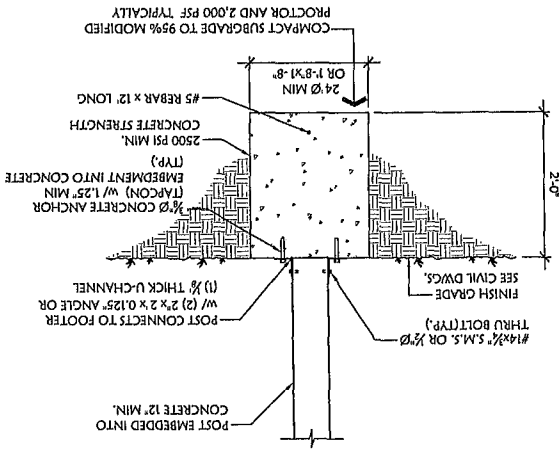
Knee Wall Footing
For Screen Enclosures



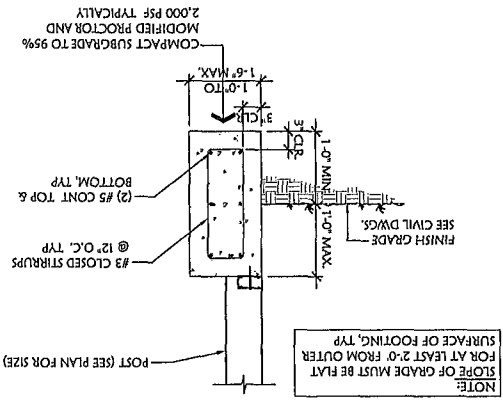
Post to Concrete Slab Connection



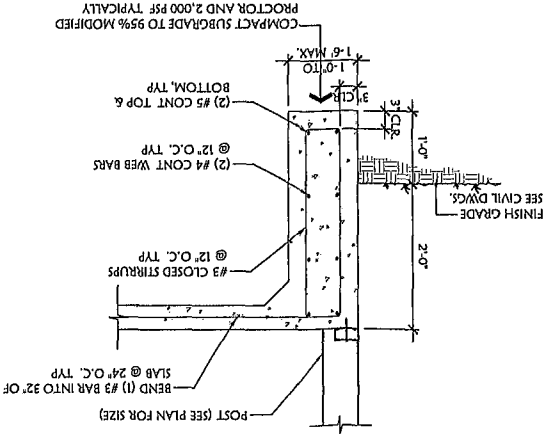
Typical Isolated Footing Detail



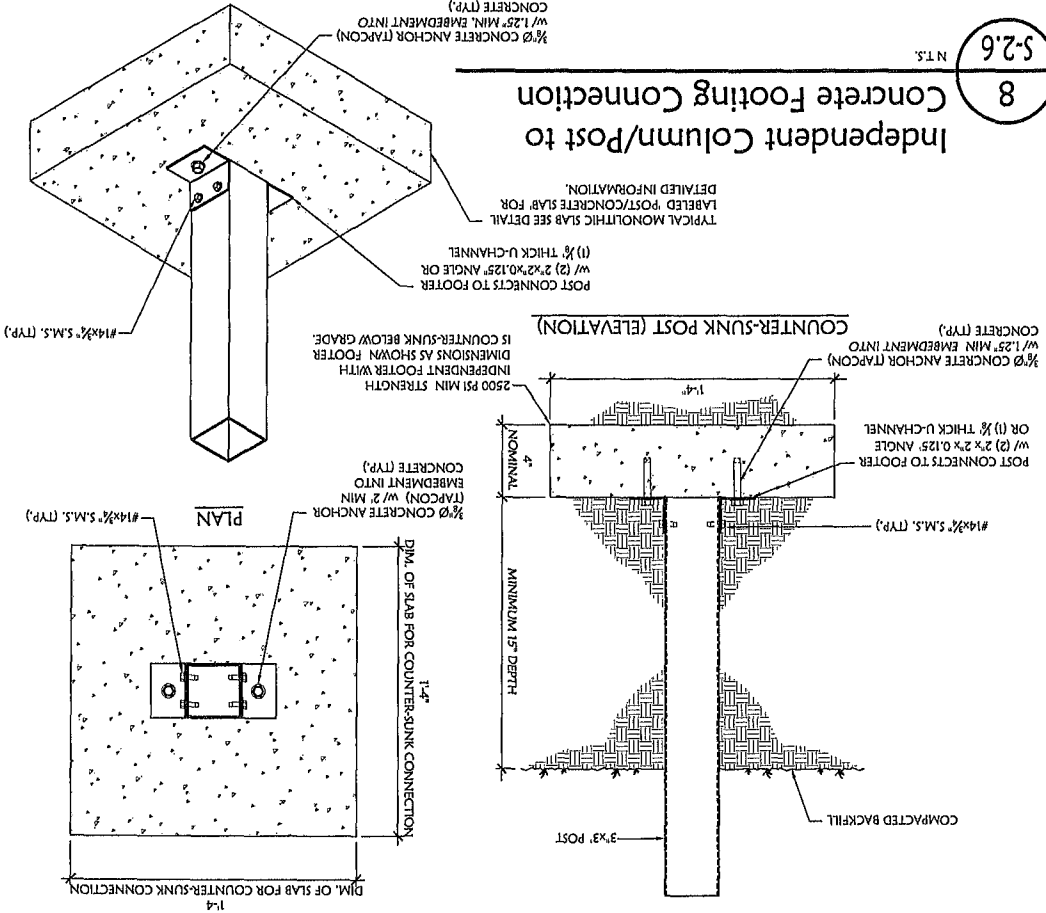
Retaining Wall Footing



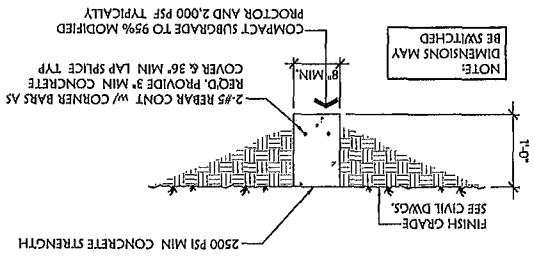
Retaining Wall Footing



Independent Column/Post to Concrete Footing Connection



Typical Continuous
Perimeter Footing Detail



Project No. #13-002.12	Drawn By: TLW	Checked By: RCS	Approved By: RCS	Date: 09/18/13
Sheet				
S-2.6				

[illegible]

Client: _____


Florida Pool Enclosures, Inc.
Swimming Pools • Screen Enclosures •

9221 HICKORY TRAIL • ATLANTONITE SPRING, FL 32001
TEL 407/260-2800 • FAX 407/260-6467
WWW.FLORIDAPOLENCLOSURES.COM

Project: Residential Pool Screen Enclosure
_____, Florida

Structural Framing
Sections & Details

WIND SPEED & CATEGORY		EFFECTIVE SPAN (FT.)	
130	Exp. B ¹	11.9	15.1
140	Exp. B ¹ , 140 Exp. C ²	10.8	13.7
150	Exp. B ¹ , 150 Exp. C ²	9.8	12.8
160	Exp. B ¹ , 160 Exp. C ²	9.2	12.2
170	Exp. B ¹ , 170 Exp. C ²	8.5	11.5

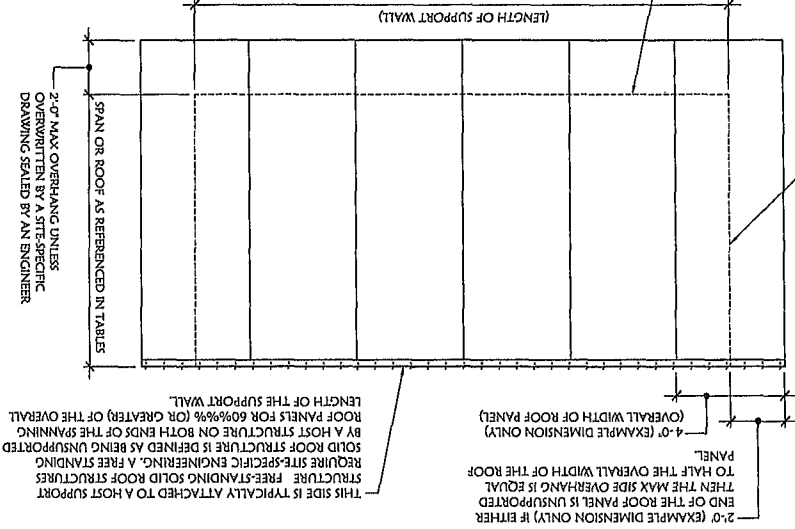
WIND SPEED & CATEGORY		EFFECTIVE SPAN (FT.)	
130	Exp. B ¹	11.9	15.1
140	Exp. B ¹ , 140 Exp. C ²	10.8	13.7
150	Exp. B ¹ , 150 Exp. C ²	9.8	12.8
160	Exp. B ¹ , 160 Exp. C ²	9.2	12.2
170	Exp. B ¹ , 170 Exp. C ²	8.5	11.5

WIND SPEED & CATEGORY		EFFECTIVE SPAN (FT.)	
130	Exp. B ¹	11.9	15.1
140	Exp. B ¹ , 140 Exp. C ²	10.8	13.7
150	Exp. B ¹ , 150 Exp. C ²	9.8	12.8
160	Exp. B ¹ , 160 Exp. C ²	9.2	12.2
170	Exp. B ¹ , 170 Exp. C ²	8.5	11.5

WIND SPEED & CATEGORY		EFFECTIVE SPAN (FT.)	
130	Exp. B ¹	11.9	15.1
140	Exp. B ¹ , 140 Exp. C ²	10.8	13.7
150	Exp. B ¹ , 150 Exp. C ²	9.8	12.8
160	Exp. B ¹ , 160 Exp. C ²	9.2	12.2
170	Exp. B ¹ , 170 Exp. C ²	8.5	11.5

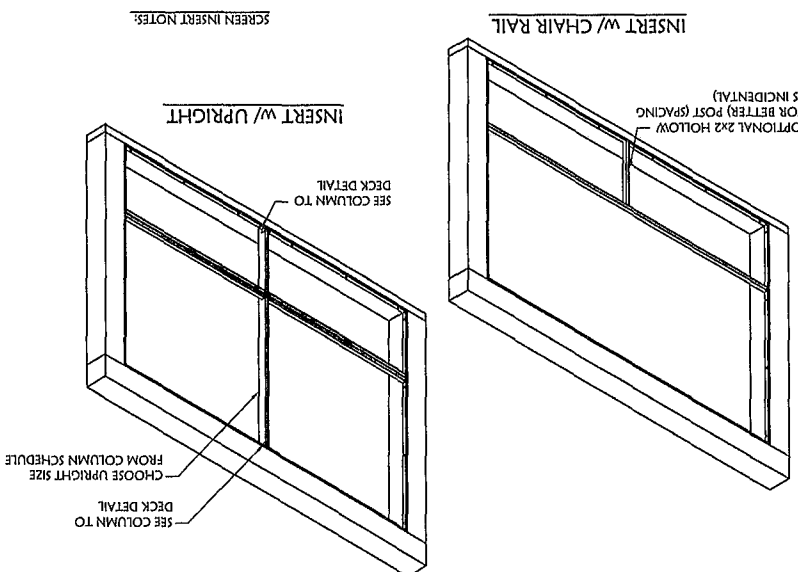
1 Solid Aluminum Roof Panel Plan

- NOTES:
- 1 THE PLAN VIEW IN THIS DETAIL SHOWS AN ELITE COMPOSITE ROOF BUT THE SAME RULES APPLY TO AN ALUMINUM PAN ROOF UNLESS OTHERWISE NOTED.
 - 2 THERE ARE TWO TYPES OF WALLS: SUPPORT WALLS AND NON-SUPPORT WALLS. THE SUPPORT WALL WILL CONSIST OF A HEADER GIRT SUPPORTING THE SOLID ROOF THAT CAN EITHER RUN CONTINUOUSLY ACROSS THE ENTIRE LENGTH OF THE WALL WITH INTERMITTENT SUPPORT FROM COLUMNS (SEE INDEPENDENT POST TO CARRY BEAM DETAIL) OR BE BROKEN UP TO SPAN BETWEEN THE SUPPORT COLUMNS VIA BEING INTERNALLY FASTENED INTO SCREW BOLTS THROUGH THE WEB OF THE SUPPORT COLUMNS (SEE "PRIMARY MEMBER TO SECONDARY MEMBER DETAIL"). NON-SUPPORT WALLS (A.K.A. SIDE WALLS) ARE NOT USED TO SUPPORT THE ROOF AND THEREFORE ARE NOT REQUIRED TO MAINTAIN A HEADER GIRT.

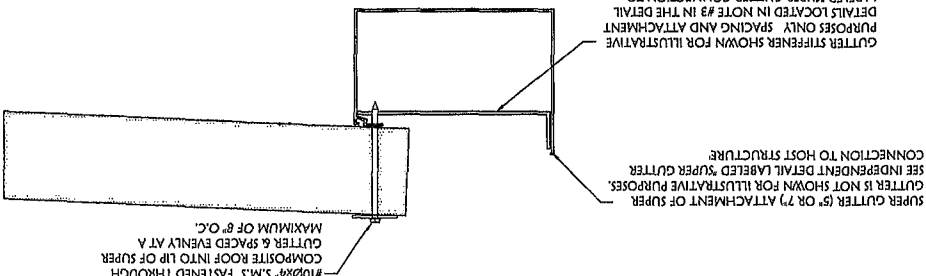


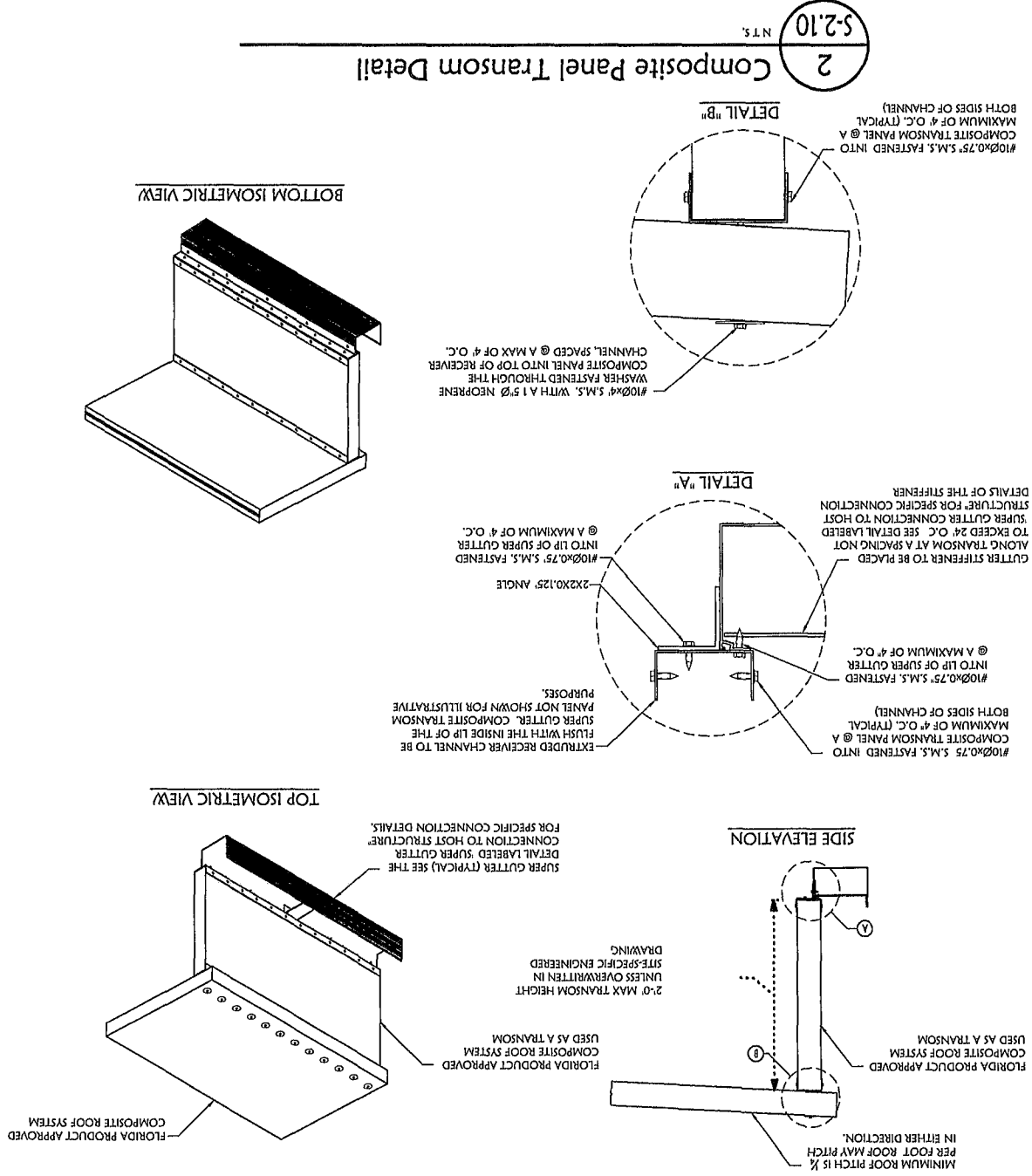
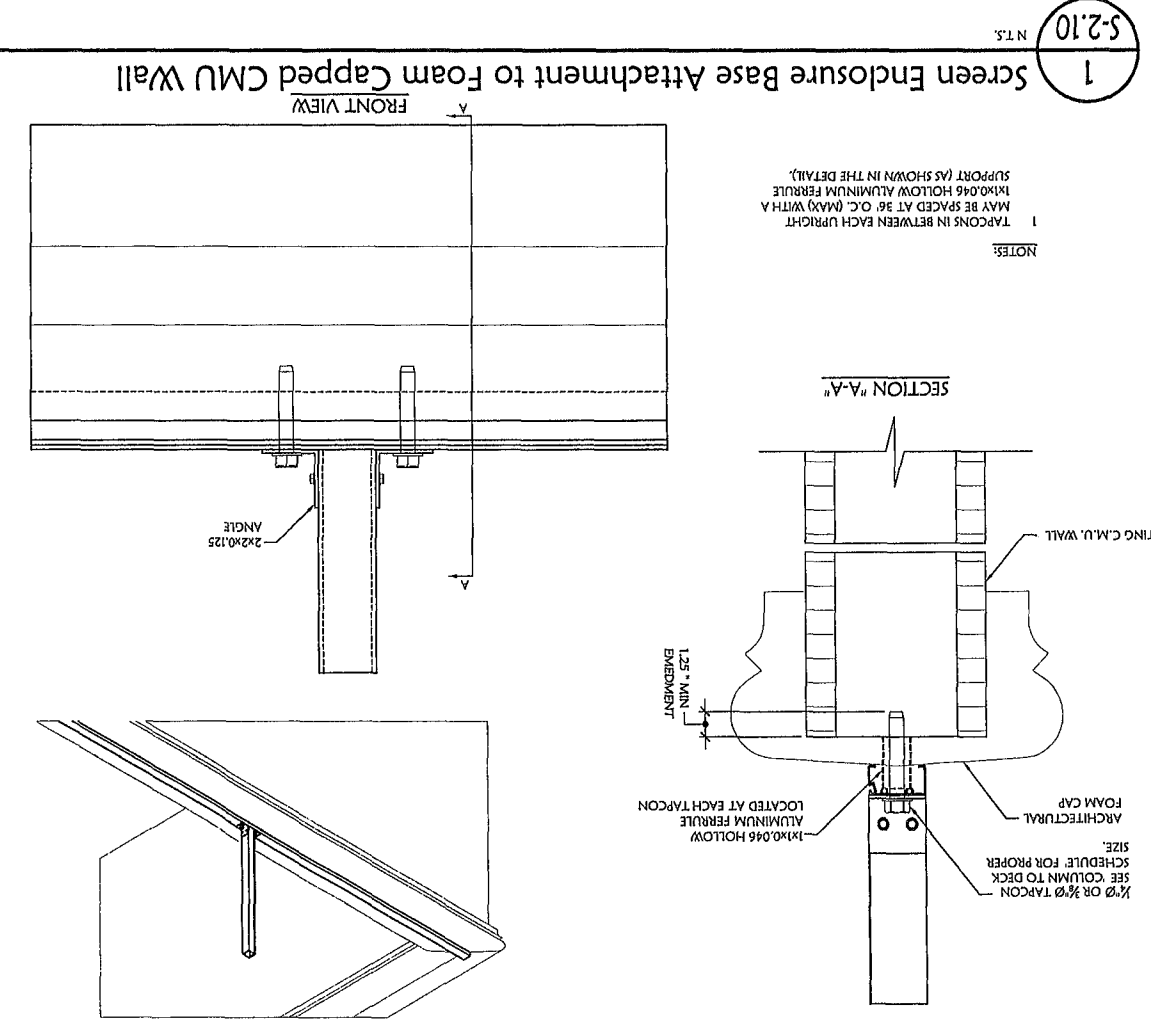
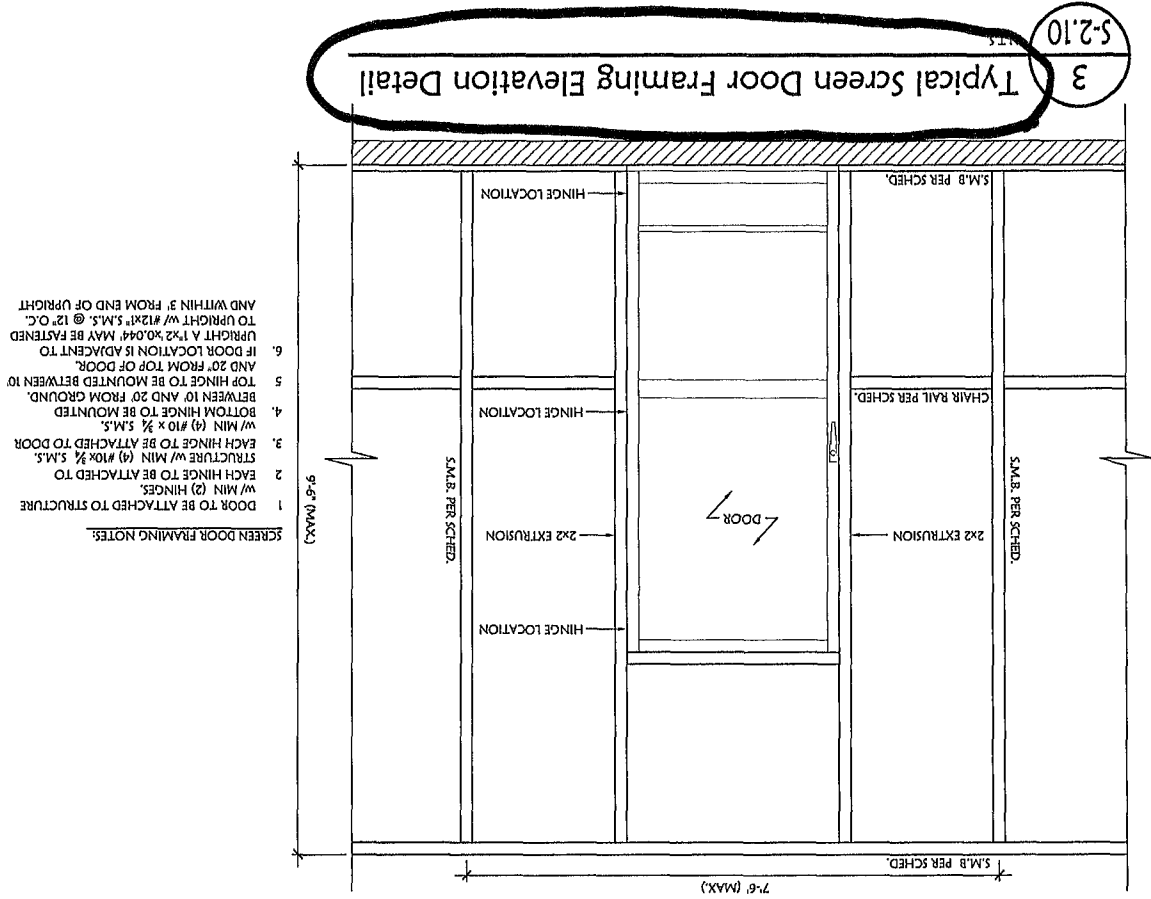
2 Screen Insert Framing Elevations

- SCREEN INSERT NOTES:
1. INSERTS ARE FRAMED IN BY 1"x2" O.B., 1/2"x2 O.B., OR 1"x3" O.B. USING 1/4"Ø CONCRETE ANCHORS W/ 1/2" EMBEDMENT (MIN.).
 2. FRAMING MEMBERS ARE FASTENED TO A C.M.U. USING 1/4"Ø FRAMING MEMBERS ARE FASTENED TO AN ALUMINUM EMBEDMENT.
 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 EMBEDMENT.
 5. FRAMING MEMBERS WILL USE A (MIN) #10 S.M.S. REGARDLESS OF C.M.U., WOOD, OR TO ANOTHER ALUMINUM FRAME MEMBER.
 6. THERE SHALL BE A FASTENER WITHIN 4" OF EVERY 90° CORNER 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.



3 Composite Roof Panel to Top of Super Gutter Connection Detail





STRUCTURAL CONCEPTS & DESIGN

2889 WEST S.W. 434, SUITE 300 • LONDON, FL 33419
PHONE 407/882-2386 • FAX 407/882-2386
WWW.CONCEPTSANDDESIGN.COM

Robert C. Schroeder, P.E.
Professional Engineer
Registration No. 56158
09/18/13

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.

Project: Residential Pool Screen Enclosure, Florida

Client: Florida Pool Enclosures, Inc.
922 HIGGINS STREET • ALTAMONTE SPRING, FL 32708
TEL 407/266-2800 • FAX 407/266-4441
WWW.FLORIDAPOLENCLOSURES.COM

Structural Framing Sections & Details

REV.	DATE	DESCRIPTION

Project No. #13-002 12

Drawn By: TLW
Checked By: RCS
Approved By: RCS
Date: 09/18/13
Sheet: S-2.10

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

COLOR: HAZARD PINK, YELLOW TRANSPARENT, ETC.

3x30.060 COLUMN SCHEDULE FOR SLOPE ROOF/SCREEN ENCLOSURE COMBO												
SCREEN ROOF TRIANGULAR WIDTH (FT.)												
8	10	12	14	16	18	20	22	24	26			
18.9	18.7	18.5	18.3	18.1	17.9	17.7	17.5	17.3	17.1			
18.2	18.0	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.4			
17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.1	15.9	15.7			
16.8	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0			
16.2	16.0	15.8	15.6	15.4	15.2	15.0	14.8	14.6	14.4			
15.5	15.3	15.1	14.9	14.7	14.5	14.3	14.1	13.9	13.7			
14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.2	13.0			
14.1	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.3			
13.4	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.8	11.6			
12.7	12.5	12.3	12.1	11.9	11.7	11.5	11.3	11.1	10.9			

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO											
SCREEN ROOF TRIBUTARY WIDTH (FT.)		8	10	12	14	16	18	EFFECTIVE SPAN (FT.)		MEMBER TYPE	
26	24	22	20	18	16	14	12	10	8	6.2	5.9
2x4 SMB	10.1	9.4	8.8	8.4	8.0	7.7	7.3	6.8	6.2	5.9	
2x5 SMB	12.5	11.6	11.0	10.4	9.9	9.5	9.0	8.5	8.2	7.7	7.1
2x6 SMB	17.4	16.7	16.4	15.9	15.5	15.1	14.9	14.5	13.8	12.8	12.1
2x7 SMB	19.3	18.6	17.9	17.4	17.2	16.7	16.4	15.9	15.5	14.8	14.1
2x8 SMB	23.6	23.1	22.5	21.9	21.5	20.9	20.5	20.1	19.4	18.7	17.9
2x9 SMB	25.0	24.3	24.0	23.5	22.8	22.2	21.6	21.1	20.5	19.7	18.9
2x10 SMB	31.9	31.0	30.3	29.7	29.3	28.7	27.9	27.2	26.4	25.9	25.1
2x11 TFB	18.3	17.5	17.1	16.6	16.2	15.8	15.4	14.8	14.5	13.8	13.1
2x12 TFB	21.7	21.0	20.5	20.1	19.4	19.1	18.5	18.0	17.5	17.0	16.4
2x9 TFB	27.7	26.8	26.1	25.5	25.1	24.6	24.0	23.4	22.7	22.4	21.7

CARRY BEAM SCHEDULE FOR SOLID ROOF/SCREEN ENCLOSURE COMBO												
SCREEN ROOF TRIBUNAL/VIEW WIDTH (FT.)		EFFECTIVE SPAN (FT.)										
8	10	12	14	16	18	20	22	24	26			
MEMBER TYPE												
2x4 SMB	7.9	7.4	6.9	6.6	6.3	6.1	5.8	5.3	4.9	4.6		
2x5 SMB	9.9	9.2	8.9	8.5	8.2	7.8	7.5	6.1	5.8	5.5		
2x6 SMB	13.7	13.2	12.9	12.5	12.2	11.7	11.4	10.9	10.1	9.7		
2x7 SMB	15.2	14.7	14.1	13.7	13.5	13.2	12.9	12.5	11.7	11.4		
2x8 SMB	18.7	18.2	17.5	17.3	16.7	16.5	16.1	15.6	15.3	14.9		
2x9 SMB	21.6	21.1	18.9	18.5	18.0	17.4	17.0	16.6	16.1	15.5		
2x10 SMB	25.1	24.4	23.9	23.4	23.1	22.6	22.0	21.4	20.8	20.4		
2x5 TFB	14.1	13.8	13.4	13.1	12.5	12.1	11.7	11.4	10.9	10.4		
2x7 TFB	17.1	16.6	16.1	15.8	15.3	15.0	14.6	14.2	13.8	13.4		
2x9 TFB	21.8	21.1	20.6	20.1	19.8	19.4	18.9	18.4	17.9	17.6		
COMPOSITE ROOF SPAN OF 14.0'												

1 ALL ALUMINUM FRAME MEMBER TABLES SHOWN ARE CALCULATED FOR EXPOSURE
"B" TYPE TERRAIN IF EXPOSURE "C" IS REQUIRED, THEN MULTIPLY THE FIGURES IN
THE TABLE BY 0.82

[illegible]