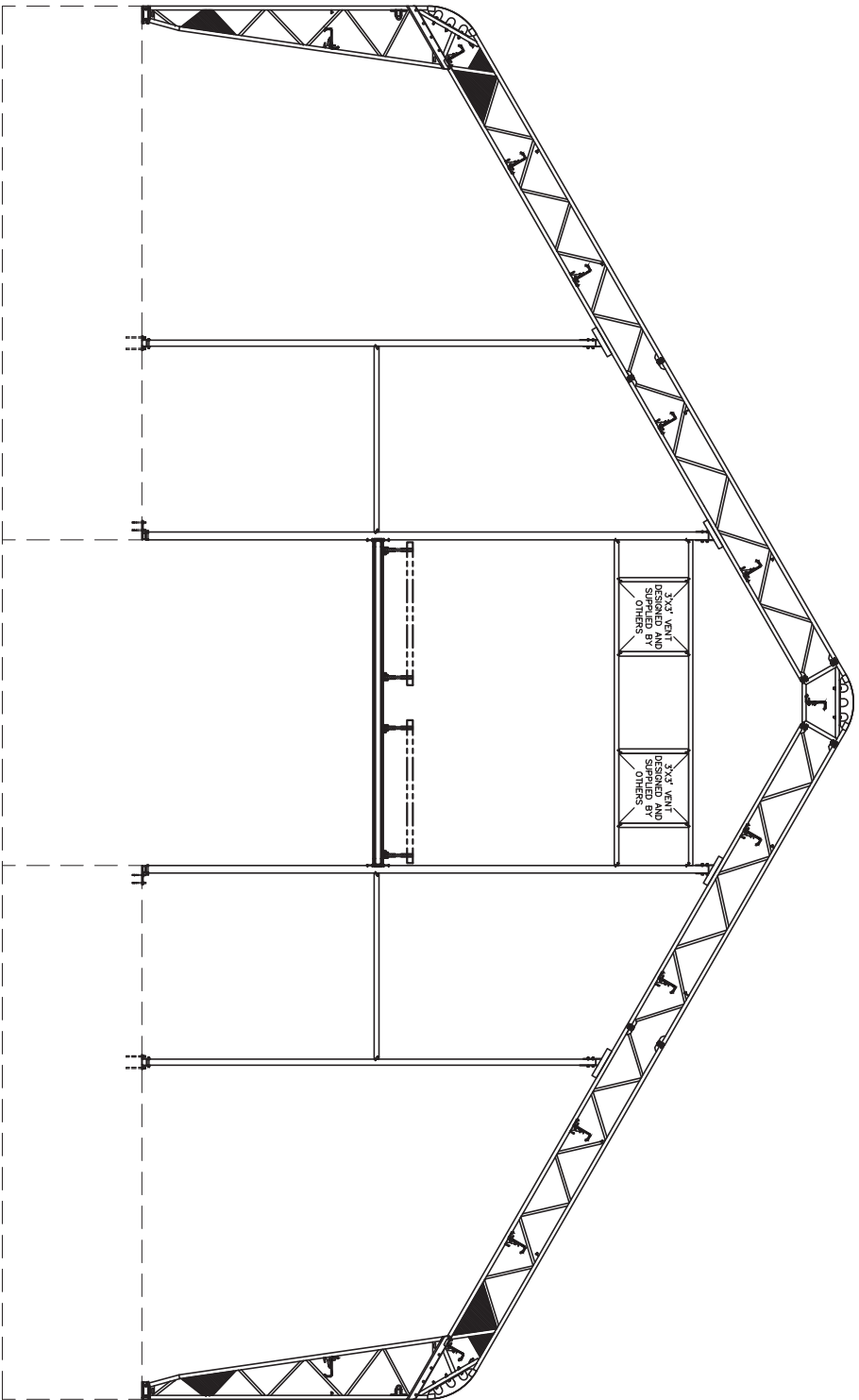




60' VP STRUCTURE



SITE LOCATION			
LAT / LONG		APPROX. 41°40'18.10"N, 70°57'19.00"W	
ADDRESS		1105 SHAMMUT AVENUE	
CITY/TOWN		NEW BEDFORD	
PROV./STATE		MASSACHUSETTS	
COUNTRY		USA	
PROJECT DESCRIPTION			
DEALER			
IRON HORSE STRUCTURES			
OWNER'S NAME			
CITY OF NEW BEDFORD			
STRUCTURE TYPE			
MODEL		VP#	
WIDTH X LENGTH		60' X 96'	
TRUSS SPACING		12' o/c	
FABRIC TYPE		Q315WW 12.1 oz./yd² PE NON-FR	
USE AND OCCUPANCY		COMMERCIAL – LOW HAZARD	
SNOW LOAD		30 PSF FLAT ROOF SNOW	
WIND LOAD		115 MPH, "C" EXPOSURE	
DRAWING INDEX			
DWG No.	SHEET No.	TITLE	
1.01	1 OF 13	TITLE SHEET	
2.01	2 OF 13	GENERAL STRUCTURAL NOTES	
3.01	3 OF 13	ISOMETRIC	
4.01	4 OF 13	FOUNDATION PLAN	
5.01	5 OF 13	BRACING LAYOUT	
6.01	6 OF 13	FRAMING PLAN	
7.01	7 OF 13	ELEVATION A	
8.01	8 OF 13	ELEVATION B	
9.01	9 OF 13	ELEVATION C	
10.01	10 OF 13	DETAILS	
11.01	11 OF 13	DETAILS	
12.01	12 OF 13	DETAILS	
13.01	13 OF 13	DETAILS	
Calhoun Super Structures Ltd. 3702 Bruce Rd #10 Terre, Ontario, Canada 1-800-265-3994 www.calhoun.ca www.calhounsuperstructures.com NAME DATE 04/07/2017 DESIGNED BY DATE J L K 02/09/2015 CHECKED DATE R W H 02/09/2015 ENCL. APPR. DATE O R 17/09/2015 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. AND IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. ITS REUSE OR MODIFICATION IS PROHIBITED.			
1		ENGINEER APPROVAL	
17/09/2015		DATE	
REVISION / ISSUE			
SCALE: 1" = 10'-0"			
SHEET 1 OF 13			
N T S			
1.01			
TITLE SHEET 60' VP SERIES 403935 VP# 60X96 R1			
			

GENERAL

1. DESIGN STANDARDS

International Building Code (IBC) 2009
AISC-Steel-Construction—Monard—13th Edition
Hollow Structural Sections, Connections and Trusses
North American Specification for the Design of Cold-Formed Steel Structural Members
CSA S16-03, Limit States design of Steel Structures
CSA S136-07, Cold Formed Steel Structural Members
ULC S109, Flame Tests of Flame Resistant Fabrics and Films

2. MANUFACTURING STANDARDS

- Fabrication in accordance with CSA S16 and CSA S136 (as applicable).
- Welding in accordance with CSA W59 and CSA S136 (as applicable).
- Cohun Super Structures is certified in accordance with CSA W47.1 Division 2
- All Welders have been qualified in accordance with CSA W47.1

- e. These drawings have been prepared by the EOR primarily to safeguard against major structural damage and loss of life, not to limit damage or maintain function as per requirements of the current accepted building code as listed in the basis for design.
- f. Professional standards of care normally exercised under similar circumstances by reputable engineers in this area or similar localities have been used or exceeded in these drawings.
- g. Design of non-structural elements, (such as stairs, railings, non-load bearing walls, veneers, curtain walls, etc) and their attachments, are not included and must be provided by others unless specifically noted on these drawings.
- h. Design of prefabricated structural products (such as wood trusses, steel joists, or concrete pre-cast elements, etc) is not included, and must be provided by others unless specifically noted on these drawings.
- i. Specification references, (such as ASTM, AISI, AWS, CCI, CISC, CSA, CMB etc) shall be the latest accepted version where noted on these drawings.

CONSTRUCTION

- i. An experienced licensed contractor with a working knowledge of applicable codes and industry accepted standard practices shall perform the work depicted in these drawings.
- j. All work shall conform to the minimum standards of the current accepted building code found in the basis for design and other codes, industry specific specifications, and standards listed herein. The contractor shall comply with requirements of all regulatory agencies with authority over any portion of the work. Work not explicitly shown on these drawings shall conform to all applicable codes and accepted standard practices.
- k. The contractor shall verify all dimensions, elevations, and conditions on these drawings with all other relevant construction discipline drawings prior to the start of construction. Notify the EOR in writing before the start of construction regarding discrepancies, omissions or variations, or they shall become the sole responsibility of the contractor. Notes and the specific details on these drawings take precedence over general structural notes and typical details.
- l. Construction methods are not explicitly included on these drawings. General sequences are shown for reference only. The contractor shall be solely responsible for all methods, sequences, and procedures of construction. The contractor shall provide adequate shoring, bracing, framework, etc. as required for the protection of life and property during construction.
- m. Excavation procedures including shoring and protection of adjacent property, structures, streets, and utilities shall be performed in compliance with local building codes, regulations, and safety requirements, and shall be the contractor's responsibility.
- n. Construction materials shall be spread out uniformly on structural systems such that design live loads are not exceeded.
- o. Openings, pockets, etc. shall not be placed in structural members unless specifically detailed on these drawings. When drawings by others show items in structural members not shown on the structural drawings, notify the EOR in writing to determine correct deposition.
- p. Site visits by the EOR are a resource for the contractor and shall not be considered as special inspections. Contractor and/or customer will be responsible for all costs incurred when requesting site visits by the EOR.
- q. As per CSA-S16-09, Section 29, Sub-section 29.7.2, Plumbness of Columns, (c): Column vertically shall not exceed 1/500 and shall be measured from the actual column centerline at the base of the column.

STRUCTURAL BOLT TORQUE VALUES						
SIZE		GR 5/A325				
DIA. (inch)	THREADS PER INCH	TENSILE ksi	PROOF LOAD (lbs)	CLAMP DRY (ft-lbs)	TORQUE DRY (ft-lbs)	TORQUE LUBE (ft-lbs)
3/8	16	120	6600	4950	30	23
7/16	14	120	9050	6780	50	35
1/2	13	120	12100	9050	75	55
5/8	11	120	19200	14400	150	110
3/4	10	120	28400	21300	260	200
1-1/4	7	105	71700	53800	1120	840

NOTE: TORQUE VALUES FOR REFERENCE ONLY. TURN OFF THE NO. 1 CALIBRATED WRENCH OR OTHER APPROVED METHOD REQUIRED TO ENSURE BOLT TENSION.

STRUCTURAL STEEL

1.0 MATERIALS

- d. Structural steel members shall conform to the following ASTM (CSA G-40.21) with the following grades and material properties U.N.O.

SHAPE	CSA G40.21 DESIGNATION	ASTM DESIGNATION (SAE GRADE)	YIELD STRENGTH MPa (ksi)	TENSILE STRENGTH MPa (ksi)
STANDARD STEEL SHAPES	300 W	A36 / 44W	300 (44)	450-620 (65-80)
	350 W	A992	350 (50)	450 (65)
ROLLED WELD FLANGE SECTIONS	300 W	A36 / 44W	300 (44)	450-620 (65-80)
BARS AND PLATES	350 W	G40.21 350W	350 (50)	450-650
HSS - ROUND	350 W	A500 GRADE C	350 (50)	450-650
HSS - SQ./REC.	350 W	787-05	380 (55)	---
MECHANICAL TUBING	---	GRADE 5	---	724-827 (60)
	---	A325	---	724-827 (105-120)
STRUCTURAL BOLTS	---	GRADE 8	---	827 (120)
	A490	---	---	1034 (150)
	F1554 GR 36	248 (36)	---	400-558 (58-80)
	F1554 GR 55	380 (55)	---	517-655 (75-95)
ANCHOR BOLTS	---	F1554 GR 105	724 (105)	125-150 (125-150)
	---	---	---	---

- b. Structural steel shall be fabricated and erected in accordance with AISC/CISC specifications for the design fabrication and erection of structural steel buildings.

2.0 INSTALLATION

- a. Welders shall use AWS/CWB certified where required by jurisdictional authority. All welding shall use E70 series low hydrogen electrodes. All welding shall conform to the latest American Welding Society standards; welds on drawings are shown as shop welds. Contractor may shop weld or field weld at his discretion. All full penetration welds shall be tested and certified by an independent testing laboratory.
- b. All bolts shall be installed as bearing-type connections with threads excluded from shear plane (type "x" connection). UNO, High-strength bolts shall be snug tightened using any AISC/OISC approved method and do not require special inspections unless noted otherwise. All bolts in slotted or oversize holes and all high-strength bolts shall be installed with washers.

- c. All expansion or epoxy bolts shall have current approved rating (ICC-ES or equivalent) for material into which installation occurs. Handed studs shall conform to all requirements of the latest edition of the "recommended practices for stud welding and the "structural welding code" published by AWS. All bolts, anchor bolts, expansion bolts, etc. shall be installed with steel washers at face of wood.
- d. Grout beneath column bosses or bearing plates shall be 5000psi (35MPa) minimum non-shrink flow-able grout or dry-pack. Install grout under bearing plates before forming member is installed. At columns, install grout under base plates after column has been plumbed but prior to floor or roof installation. Grout depth shall be sufficient to allow grout or dry pack to be placed beneath plate without voids.
- e. All misc. welds not noted, including stiffeners, misc. plates, etc. shall be per AWS/CISC manual table 12.4 or in an AWS/CMB certified shop.

LIGHT GAUGE STEEL FRAMING

1.0 MATERIALS

- a. All products to be manufactured by the current members of the steel stud manufacturers association. All galvanized studs and joist shall be formed from steel that corresponds to the minimum requirements of the latest addition of the AISI or CSA-S136. All structural members shall be designed in accordance with the Canadian Institute of Steel Construction (CISC) or American Iron and Steel Institute (AISI) specification for the design of cold-formed steel structural members (latest edition).
- b. Structural drawings show only the primary structural framing elements of the system, and the contractor shall provide all accessories required for the complete and proper installation, as recommended by the manufacturer for the steel members used.
- c. All welding shall be performed by welders experienced in light gauge structural steel framing work. All welds per AWS D1.3 or AWS D1.3 as applicable.

2.0 FRAMING

- a. Prior to fabrication of framing, that is designed and supplied by others, the contractor shall submit shop drawings to the EOR to obtain approval.
- b. All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit against abutting members.
- c. Temporary bracing where required, shall be provided until erection is complete.
- d. Fastening of the components shall be with self-drilling screws or welding. Screws or welds shall be of sufficient size to insure the strength of the connection. All welds of galvanized steel shall be touched up with paint. Wire tying of components shall not be permitted.
- e. Screws shall be self-tapping pan head, hex head, or washer head sheet metal screws. Screws which are removed shall be replaced by a screw of a larger diameter where the replacement is made into an existing hole. Replace all screws which strip out material. Screws shall be spaced no closer than $5/8"$ o/c and with a minimum free edge distance of $1/2"$. Screws No. 8 and larger shall have a minimum head size of $5/16"$.

- f. Any on-site welding during structure erection shall be performed by welders experienced in light gauge structural steel framing work.

FOUNDATION

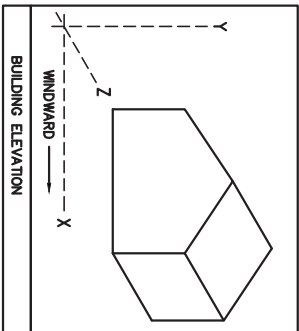
1. Designed and Supplied by others.
2. Basic Load Case Reactions shown represent portal frame behavior of typical or intermediate frames unaffected by envelope end and edge effects. These reactions may be used as an approximation for preliminary design of foundation and anchorage to concrete as occurs for these frames. Tension Anchor and Seismic Longitudinal Reactions may be added to the portal frame reactions at frames adjacent to bracing locations for preliminary design of foundation and anchorage to concrete at these locations.
3. Designer shall refer to the MFR provided complete listing of combination reactions by frame for the actual design of foundation and anchorage to concrete.
4. All Project Sites are assumed to be virgin, undisturbed soil. Any fill must be properly compacted to 150 kPa (3000 psf)

STRUCTURE REACTIONS					
	BASIC LOAD CASE	WINWARD / SIDE A		LEWARD / SIDE B	
		HORIZONTAL (Fx-kip)	VERTICAL (Fy-kip)	HORIZONTAL (Fx-kip)	VERTICAL (Fy-kip)
	DEAD LOAD	0.40	1.19	-0.40	1.19
	COLLATERAL LOAD	0.07	0.17	-0.07	0.17
	ROOF LIVE LOAD	2.05	3.98	-2.05	3.98
	BALANCED SNOW LOAD	3.66	7.76	-3.66	7.76
	UNBALANCED SNOW LOAD	4.13	6.92	-4.21	10.00
	WIND PERP (+OP) +IP PERP	-3.90	-2.62	-2.01	-2.60
	WIND PERP (-OP) +IP PERP	-3.68	-4.19	-0.68	-3.87
	WIND PERP (+OP) -IP PERP	-3.66	0.14	-2.25	0.16
	WIND PERP (-OP) -IP PERP	-3.44	-1.43	-0.92	-1.10
	WIND PAR (-Z) +IP PAR	-0.16	-4.99	0.16	-5.00
	WIND PAR (+Z) +IP PAR	-0.10	-1.30	0.10	-1.30
	WIND PAR (-Z) -IP PAR	0.08	-2.24	-0.08	-2.25
	WIND PAR (+Z) -IP PAR	0.15	1.46	-0.15	1.47
	SEISMIC TRANSVERSE (X)	-0.52	-0.32	-0.57	0.49

THE FOLLOWING SHOULD BE ADDED TO THE PARALLEL WIND CASE FOR FRAMES WITH HORIZONTAL FORCE RAFTERS TO BUILDING LENGTH: GRADIENTS 1.5, 7-9	HORIZONTAL Fx kN(+-)	VERTICAL Fy kN(+-)	HORIZONTAL Fz kN(+-)	Moment M _T kN-m (+-)	M _y kN-m (+-)	M _z kN-m (+-)
TENSION ANCHOR - WIND	1.71	-4.49	2.32	5.81		
SEISMIC LONGITUDINAL	0.75	-2.12	1.10	2.35		
END WALL POST BASE			3.13			
NODE 106 SEISMIC TRANSVERSE (X)	-0.52	-0.32	-0.02	-0.01	-0.06	0.66
NODE 107 SEISMIC TRANSVERSE (X)	0.75	-2.12	1.10	2.35	0.06	0.68

—FRAME SPACING AND REINCTIONS ASSUME LATERAL DEFLECTION LESS THAN 1/4" AT TOP OF WALL FOR COMBINED LOADING.
—SEE FOUNDATION NOTE 2 ABOVE.

BASIS FOR DESIGN		780 CMR 8th Edition
GOVERNING BUILDING CODE		
ROOF LOADS		
DEAD LOAD		3.66 psf
COLLATERAL LOAD		0.25 psf
LIVE LOAD		12 psf
SNOW LOAD		30 psf
IMPORTANCE FACTOR		0.8
Ct		1.2
Ce		0.9
pf		30.0 psf
WIND DESIGN		
BASIC WIND SPEED		115 mph
WIND EXPOSURE		C
BASIC CLADDING (EXCLUDING GOP FIG 6-11)		21.52/25.48 psf
IMPORTANCE FACTOR		0.87
ROOF HEIGHT		36'-8"
DESIGN ENCLOSURE		ENCLOSED
SEISMIC DESIGN		
Ss		0.220
SI		0.057
IMPORTANCE FACTOR		1.0
SITE CLASS		D
USE GROUP		1
R LONGITUDINAL		*3.0
R TRANSVERSE		*3.0
OCCUPANCY STANDARD – SEISMIC		I
THIS STRUCTURE HAS BEEN DESIGNED AS AN ENCLOSED BUILDING.		
*PER 12.2-1		
*CONSERVATIVELY TAKEN SMALLER THAN REQUIRED		

[illegible][illegible]

**FOUNDATION DESIGNED
AND SUPPLIED BY OTHER**

CALHOUN

G S N
60' VP SERIES
33935 VP R 60X96 R1

2.01

NTS SHEET 2 OF 13

2 OF 13

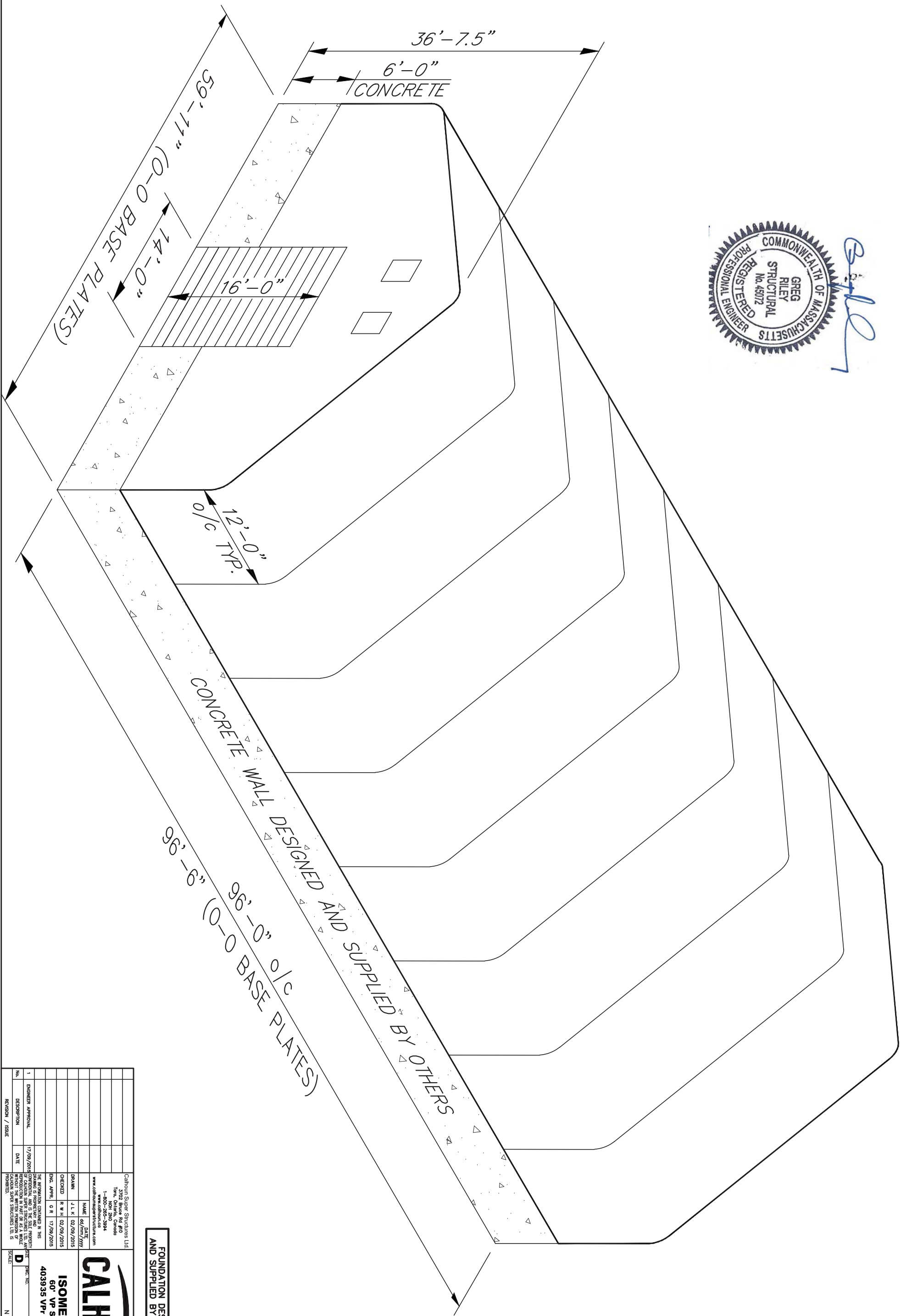
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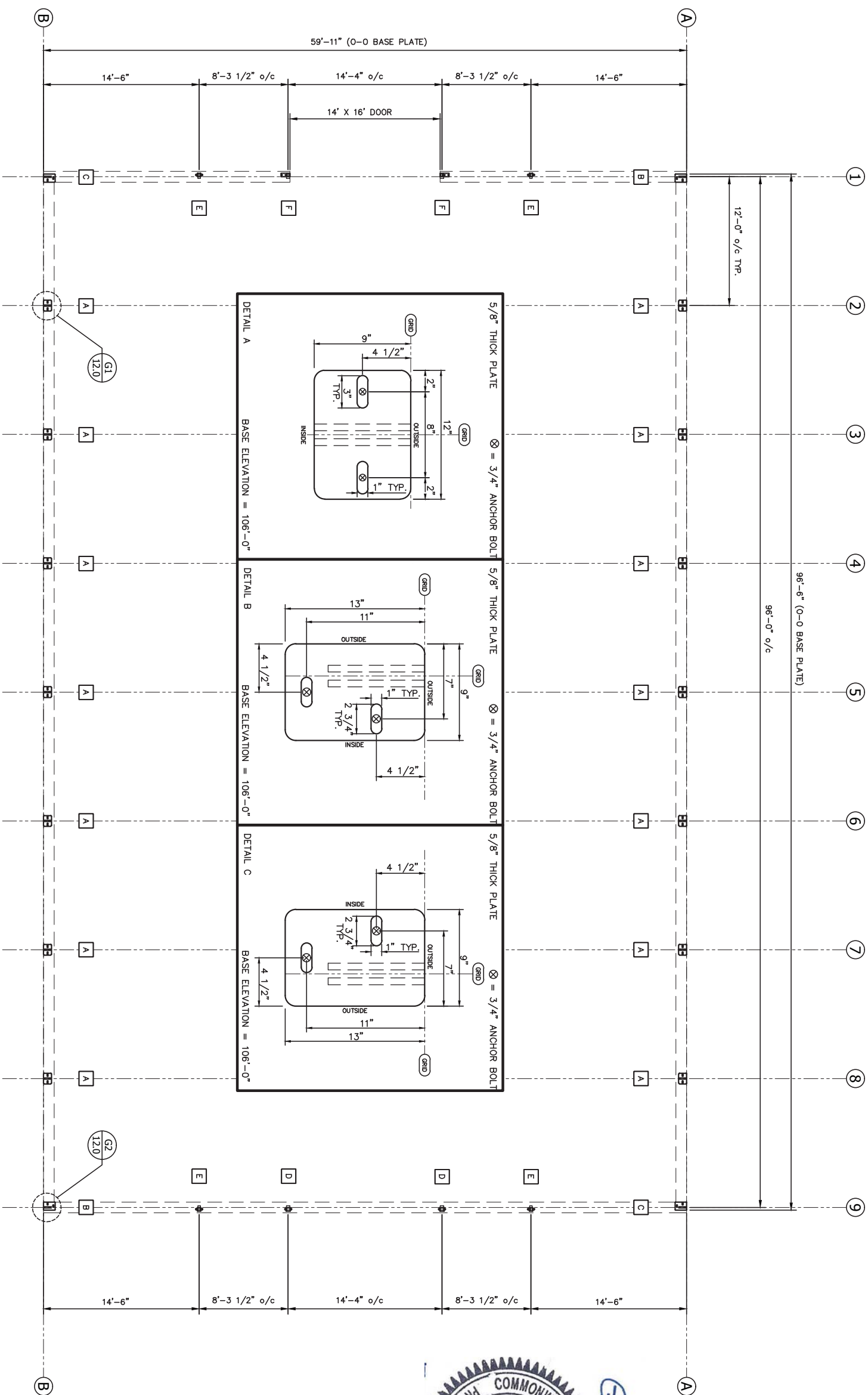
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Sep 17, 2015 - 2:02pm



		Calhoun Steel Structures Ltd. 3702 Bruce Rd #10 Tara, Ontario, Canada M1H 2N9 1-800-387-3894 www.calhoun.co www.calhounsteelstructure.com	
		NAME	DATE
		DRAWN	J L K 02/09/2015
		CHECKED	R W H 02/09/2015
		ENG. APPR.	G R 17/09/2015
		THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF CALHOUN STEEL STRUCTURES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION FROM CALHOUN STEEL STRUCTURES LTD. IS PROHIBITED.	
1	ENGINEER'S APPROVAL	17/09/2015	
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REVISION / ISSUE			

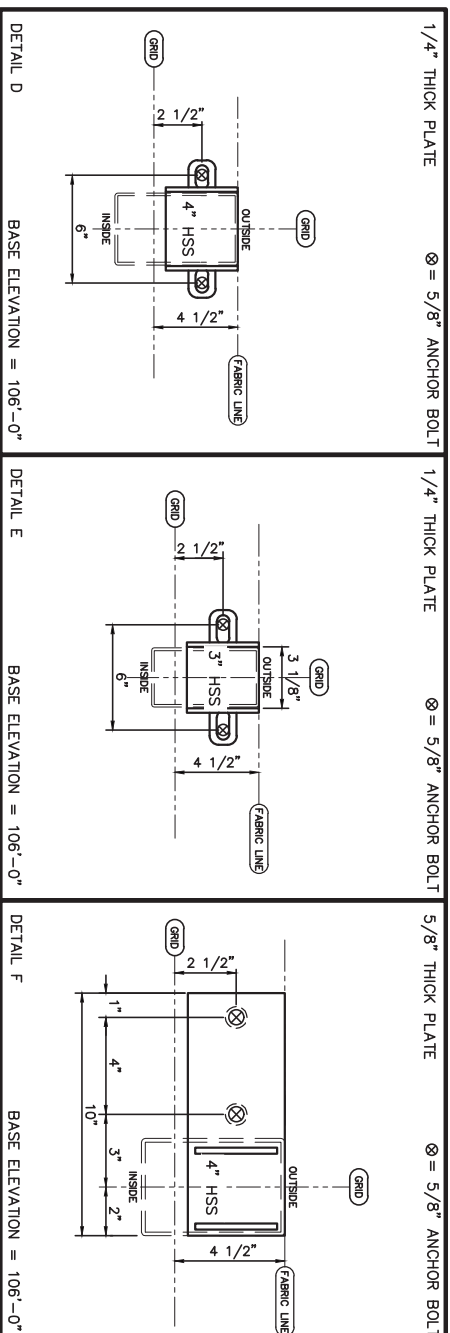
**FOUNDATION DESIGNED
AND SUPPLIED BY OTHERS**



NOTE: BUILDING DESIGNED AS FREE STANDING REQUIRING MINIMUM OF 50' CLEARANCE ON ALL 4 SIDES.

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE DISCREPANCIES WITH THE BUILDING SUPPLIER.
2. FINISHED FLOOR ELEVATION THIS SHEET = 100'-0" U.N.O.
3. ALL CONCRETE COMPONENTS ARE DESIGNED AND SUPPLIED BY OTHERS

[illegible]

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AND SUPPLIED BY OTHERS**



FOUNDATION PLAN
60' VP SERIES
403935 VP R 60X96 R1

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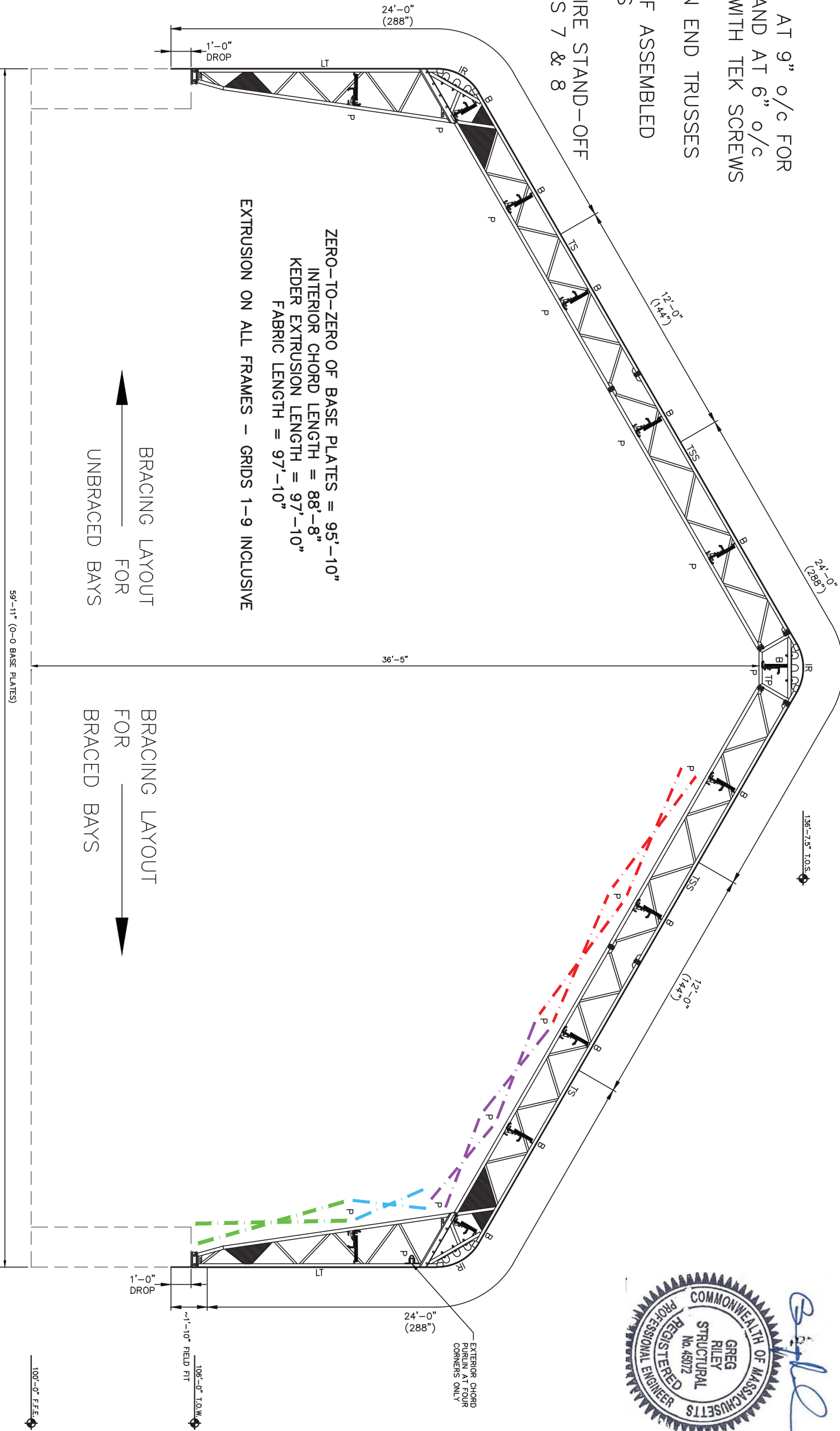
NOTES:

FASTEN EXTRUSION AT 9" o/c FOR INTERIOR FRAMES AND AT 6" o/c FOR END FRAMES WITH TEK SCREWS

FULL COUPLERS ON END TRUSSES

APPROX. WEIGHT OF ASSEMBLED TRUSS ~ 1600 LBS

END FRAMES REQUIRE STAND-OFF SYSTEM, SEE PAGES 7 & 8



CABLE COLOUR KEY		
LEGEND	DESCRIPTION	SECTION
—	ROOF TRUSS CABLE	5/16" GALVANIZED 7X19 WIRE ROPE
—	SHOULDER TRUSS CABLE	5/16" GALVANIZED 7X19 WIRE ROPE
—	UPPER WALL CABLE	5/16" GALVANIZED 7X19 WIRE ROPE
—	LOWER WALL CABLE	5/16" GALVANIZED 7X19 WIRE ROPE

COMPONENT SCHEDULE			
MARK	DESCRIPTION	CHORDS	WEBS
TSS	TRUSS STANDARD STRAIGHT	3"x2"x1/8"	U 1.5"x1.25"x10A
TS	TRUSS SHOULDER	INSIDE CHORD 3"x2"x3/16" OUTSIDE CHORD 3"x2"x1/8"	VARIES
LT	LEG	INSIDE CHORD 3"x2"x3/16"	U 1.5"x1.25"x10A
TP	TRUSS PEAK	3"x2"x1/8"	---
IR	INSERT ROUND	PLATE	---

BRACING LEGEND	
MARK	DESCRIPTION
P	PURLIN
B	BRACE CHANNEL

FOUNDATION DESIGNED AND SUPPLIED BY OTHERS

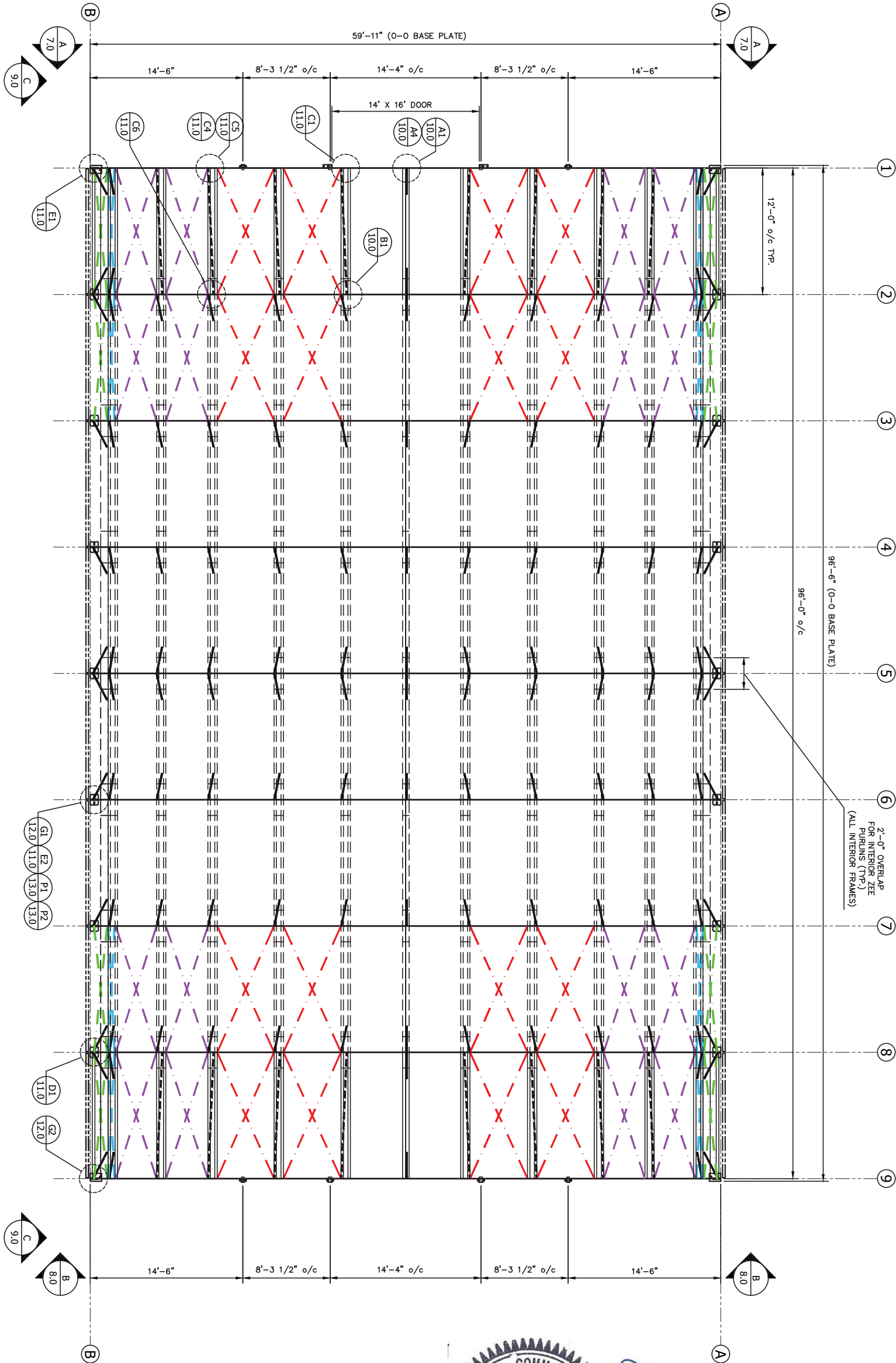


BRACING LAYOUT
60' VP SERIES
403935 VP 60X96 R1

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE DISCREPANCIES WITH THE BUILDING SUPPLIER.
2. FINISHED FLOOR ELEVATION THIS SHEET = 100'-0" U.N.O.
3. ALL CONCRETE COMPONENTS ARE DESIGNED AND SUPPLIED BY OTHERS

1		ENGINEER APPROVAL	17/09/2015	DATE	17/09/2015
2		DESIGNER	J.L.K.	DATE	02/09/2015
3		CHECKED	R.W.H.	DATE	02/09/2015
4		ENCL. APPR.	G.R.	DATE	17/09/2015
5		REVISION / ISSUE	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. AND IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. IS PROHIBITED.		
6		SCALE	3/8"=1'-0"	SHEET 5 OF 13	





FRAMING SCHEDULE			
LEGEND	DESCRIPTION	SECTION	GAUGE
	TYPICAL PURLIN	8" ZEE - B214	14
	TOP CHORD BRACE	2"x2" U-CHANNEL	11
	ROOF BRACE PURLIN	3"x3" HSS	14
	TENSION TUBE	3-1/2" TUBE	11
	EXTERIOR CHORD PURLIN	3"x3" HSS	14

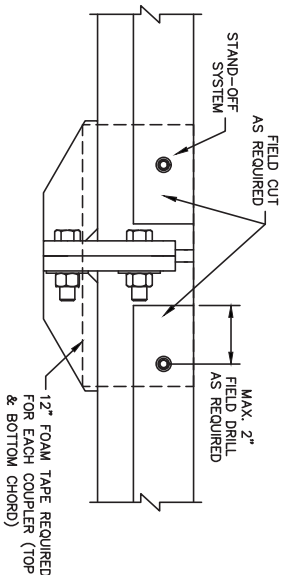
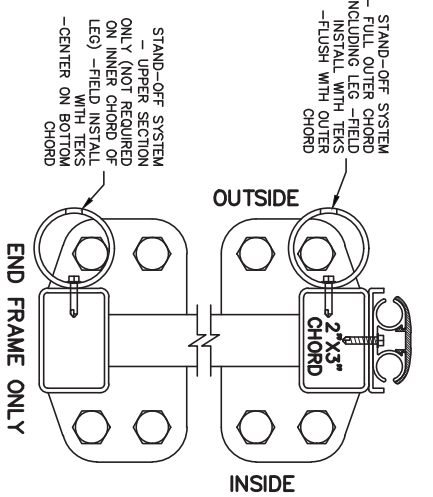
CABLE COLOUR KEY			
LEGEND	DESCRIPTION	SECTION	PRE-TENSION
	ROOF TRUSS CABLE	5/16" 6" GALVANIZED 7x19 WIRE ROPE	HAND TIGHT +6-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/8 TURNS
	SHOULDER TRUSS CABLE	5/16" 6" GALVANIZED 7x19 WIRE ROPE	HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
	UPPER WALL CABLE	5/16" 6" GALVANIZED 7x19 WIRE ROPE	HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
	LOWER WALL CABLE	5/16" 6" GALVANIZED 7x19 WIRE ROPE	HAND TIGHT +6-3/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/4 TURNS

- GENERAL NOTES**
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE DISCREPANCIES WITH THE BUILDING SUPPLIER.
 2. FINISHED FLOOR ELEVATION THIS SHEET = 100'-0" U.N.O.
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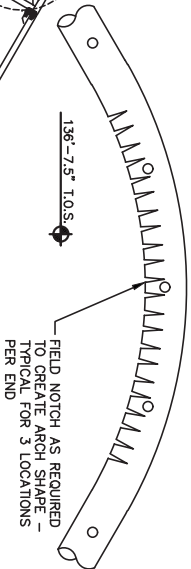
Calhoun Super Structures Ltd. 1-800-361-2004 www.calhounsuperstructures.com		NAME: J.L.K. DATE: 02/09/2015	
BRAIN: J.L.K. DATE: 02/09/2015		CHECKED: R.W.H. DATE: 02/09/2015	
ENG. APPR: G.B. DATE: 17/09/2015		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. IS PROHIBITED.	
1. ENGINEER APPROVAL		17/09/2015	
No. DESCRIPTION		DATE	
REVISION / ISSUE		SCALE: 3/16"=1'	



FRAMING PLAN
60' VP SERIES
403935 VP 60X96 R1
6.01
SHEET 6 OF 13



PVC STAND-OFF SYSTEM

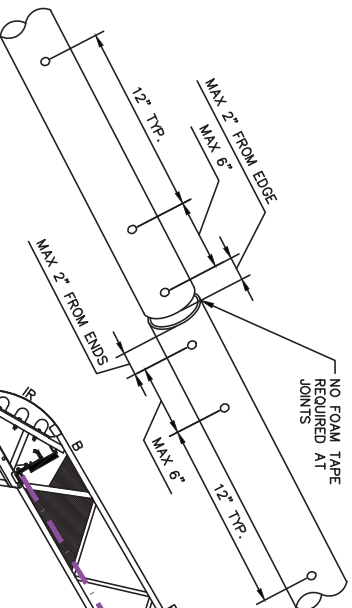


CABLE COLOUR KEY		
LEGEND	DESCRIPTION	PRE-TENSION
---	ROOF TRUSS CABLE	5/16" ϕ GALVANIZED 7/19 WIRE ROPE HAND TIGHT +6-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/8 TURNS
---	SHOULDER TRUSS CABLE	5/16" ϕ GALVANIZED 7/19 WIRE ROPE HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
---	UPPER WALL CABLE	5/16" ϕ GALVANIZED 7/19 WIRE ROPE HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
---	LOWER WALL CABLE	5/16" ϕ GALVANIZED 7/19 WIRE ROPE HAND TIGHT +6-3/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/4 TURNS

END WALL FRAMING SCHEDULE		
LEGEND	DESCRIPTION	GAUGE
EW-1	ENDWALL UPRIGHT	4"x8" HSS 1/4"
EW-2	ENDWALL UPRIGHT	3"x6" HSS 3/16"
EW-H	DOOR HEADER	4"x8" HSS 1/4"
EW-C	CEE CHANNEL	6"x2 1/4" 14

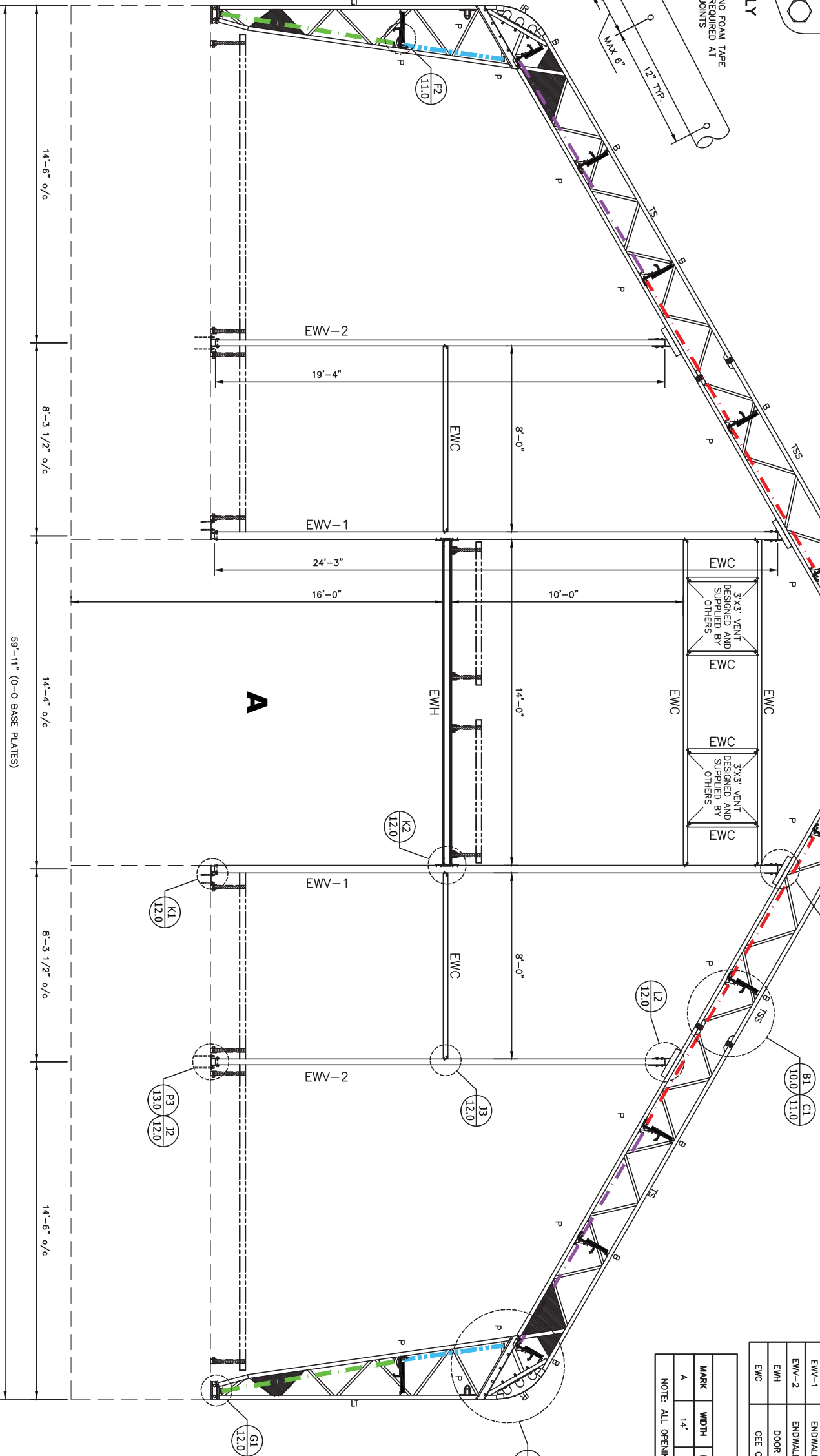
DOOR SCHEDULE			
MARK	WIDTH	HEIGHT	TYPE
A	14'	16'	SEE NOTES
NOTE: ALL OPENINGS - DESIGNED AND SUPPLIED BY OTHERS			

REQUIRED TEK SPACING
AT JOINTS FOR
STAND-OFF SYSTEM



NOTE:

1. FULL COUPLERS ON ALL TRUSSES.
2. PASSIVE VENTILATION IF USED SHALL BE IDENTICAL OPPOSITE ENDS AND SIDES.
3. PERSONNEL AND SERVICE DOORS NOT SHOWN SHALL BE DESIGNED TO MINIMUM REFERENCED CLADDING PRESSURE AS NOTED ON PAGE 2.0, IF APPLICABLE.



FRAMING SCHEDULE			
LEGEND	DESCRIPTION	SECTION	GA/LOAD
	TOP CHORD BRACE	2"x2" U-CHANNEL	11
	TENSION TUBE	ϕ 2-7/8"	13

FRAMING NOTES

1. DOOR DESIGNED & SUPPLIED BY OTHERS. DOOR MUST BE DESIGNED TO HANDLE SITE WIND LOADS. STRUCTURE HAS BEEN DESIGNED SUCH THAT THE DOOR IS CLOSED IN THE EVENT OF HIGH WIND (EXCEEDING 70 KPH OR 44 MPH).

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE DISCREPANCIES WITH THE BUILDING SUPPLIER.
2. FINISHED FLOOR ELEVATION THIS SHEET = 100'-0" U.N.O.
3. ALL CONCRETE COMPONENTS ARE SUPPLIED BY OTHERS.

BRACING LEGEND	
MARK	DESCRIPTION
P	PURLIN
B	BRACE CHANNEL

COMPONENT SCHEDULE			
MARK	DESCRIPTION	CHORDS	WEBS
TSS	TRUSS STANDARD STRAIGHT	3"x2"x1/8"	U 1.5"x1.25"x11GA
TS	TRUSS SHOULDER	OUTSIDE CHORD 3"x2"x1/8" INSIDE CHORD 3"x2"x3/16"	VARIES
LT	LEG	OUTSIDE CHORD 3"x2"x1/8" INSIDE CHORD 3"x2"x3/16"	U 1.5"x1.25"x11GA
TP	TRUSS PEAK	3"x2"x1/8"	---
IR	INSERT ROUND	PLATE	---

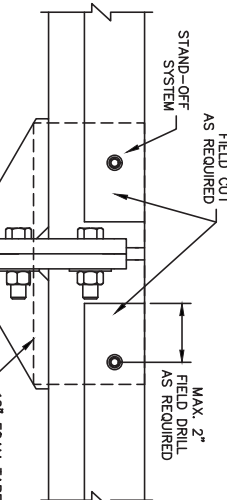
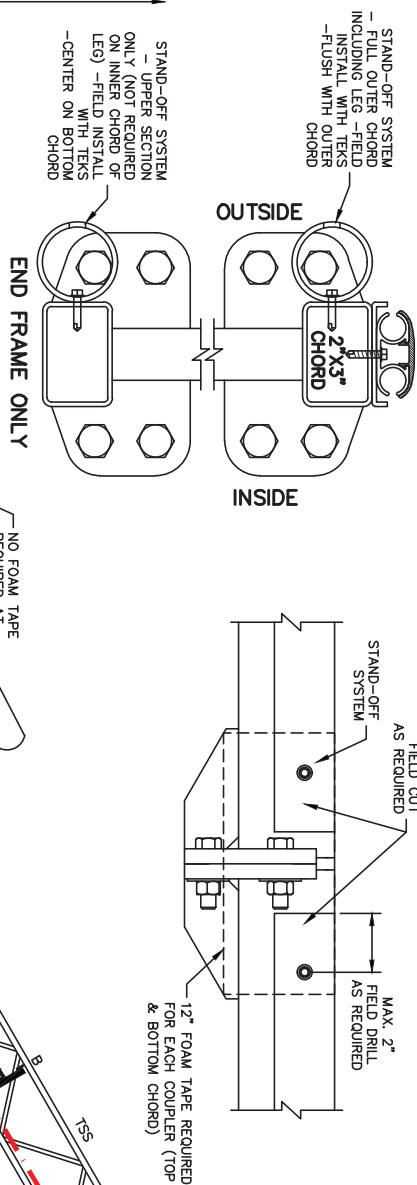
COMMENTS	
ALL STEEL F _y =50 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09	
ALL STEEL F _y =50 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09	
ALL STEEL F _y =50 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09	
ALL STEEL F _y =50 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09	
ALL STEEL F _y =50 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09	



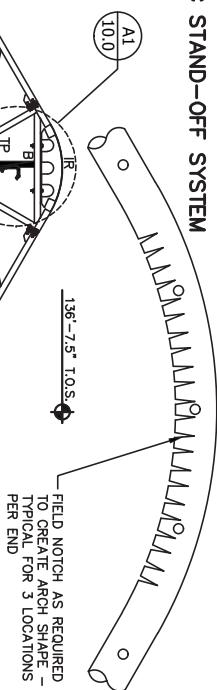
Calhoun Super Structures Ltd. 1-800-260-2900 www.calhounsuperstructures.com		Calhoun Super Structures Ltd. Toronto, Ontario, Canada www.calhounsuperstructures.com	
NAME: J.L.K. DATE: 02/09/2015		NAME: J.L.K. DATE: 02/09/2015	
CHECKED: R.W.H. DATE: 02/09/2015		CHECKED: R.W.H. DATE: 02/09/2015	
DESIGNED: J.L.K. DATE: 02/09/2015		DESIGNED: J.L.K. DATE: 02/09/2015	
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ELEVATION A 60" VP SERIES 403935 VP 60X96 R1		ELEVATION A 60" VP SERIES 403935 VP 60X96 R1	
SCALE: 3/8"=1'-0"		SCALE: 3/8"=1'-0"	
SHEET 7 OF 13		SHEET 7 OF 13	



FOUNDATION DESIGNED
AND SUPPLIED BY OTHERS

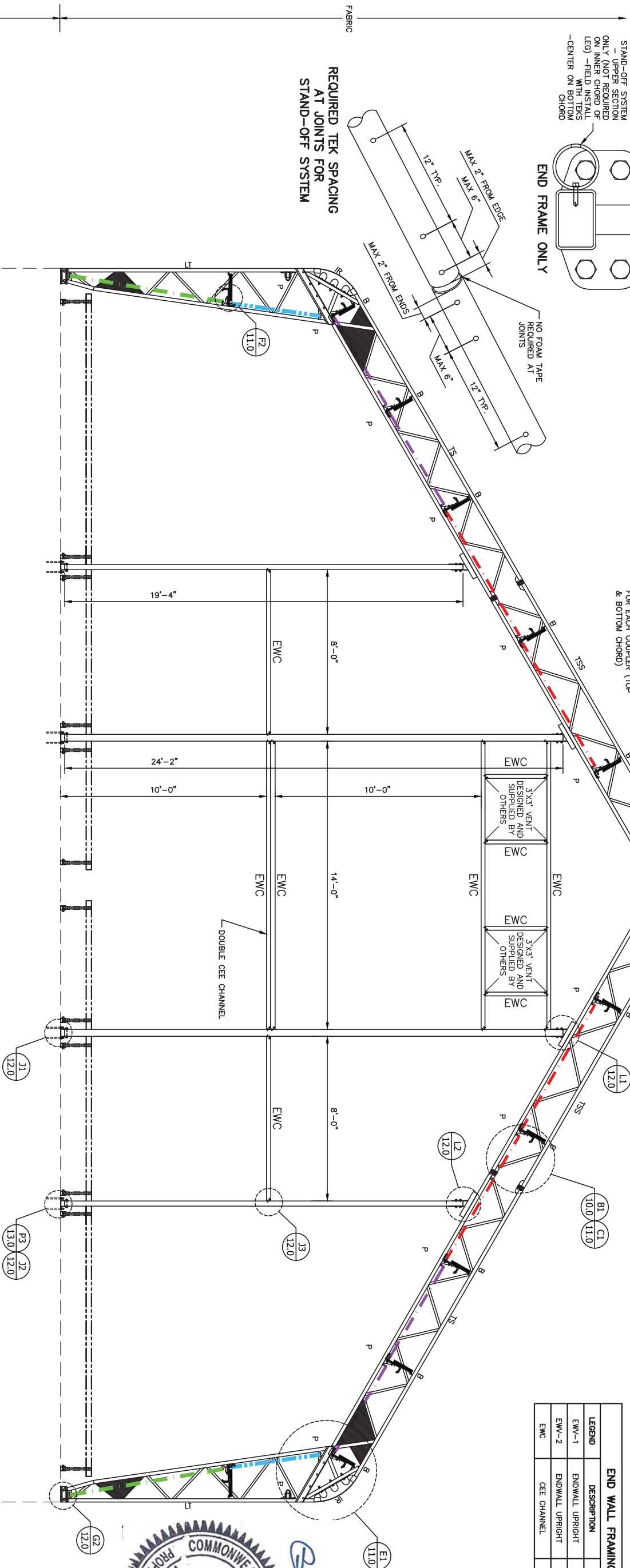


PVC STAND-OFF SYSTEM



CABLE COLOUR KEY			
LEGEND	DESCRIPTION	SECTION	PRE-TENSION
	ROOF TRUSS CABLE	5/16" GALVANIZED X19 WIRE ROPE	HAND TIGHT +6-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/8 TURNS
	SHOULDER TRUSS CABLE	5/16" GALVANIZED X19 WIRE ROPE	HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
	UPPER WALL CABLE	5/16" GALVANIZED X19 WIRE ROPE	HAND TIGHT +5-7/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +3/4 TURNS
	LOWER WALL CABLE	5/16" GALVANIZED X19 WIRE ROPE	HAND TIGHT +6-3/8 TURNS, THEN TURN TO SLACK THEN HAND TIGHT +1-1/4 TURNS

END WALL FRAMING SCHEDULE			
LEGEND	DESCRIPTION	SECTION	GAUGE
EW-1	ENDWALL UPRIGHT	4"x8" HSS	1/4"
EW-2	ENDWALL UPRIGHT	3"x6" HSS	3/16"
EW-3	C/E CHANNEL	6"x2 1/4"	14



CONCRETE
(SEE GENERAL NOTES)

100'-0" F.F.E.

106'-0" T.O.W.

GRIDLINE 9

FRAMING SCHEDULE				
LEGEND	DESCRIPTION	SECTION	GA/LOAD	COMMENTS
————	TOP CHORD BRACE	2"x2" U-CHANNEL	11	ALL BAYS
-----	TENSION TUBE	Ø2-7/8"	13	ALL BAYS

BRACING LEGEND	
MARK	DESCRIPTION
P	PURLIN
B	BRACE CHANNEL

COMPONENT SCHEDULE				
MARK	DESCRIPTION	CHORDS	WEBS	COMMENTS
TSS	TRUSS STANDARD STRAIGHT	3"x2"x1/8"	U 1.5"x1.25"x11GA	ALL STEEL, FY=60 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09
TS	TRUSS SHOULDER	OUTSIDE CHORD 3"x2"x1/8" INSIDE CHORD 3"x2"x3/16"	VARIES	ALL STEEL, FY=60 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09
LT	LEG	OUTSIDE CHORD 3"x2"x1/8" INSIDE CHORD 3"x2"x3/16"	U 1.5"x1.25"x11GA	ALL STEEL, FY=60 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09
TP	TRUSS PEAK	3"x2"x1/8"	---	ALL STEEL, FY=60 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09
IR	INSERT ROUND	PLATE	---	ALL STEEL, FY=60 KSI HOT DIP GALVANIZED TO MIN. CSA G164/ASTM A123-09

NOTE:

- 1. FULL COUPLERS ON ALL TRUSSES.**

2. PASSIVE VENTILATION IF USED SHALL BE IDENTICAL OPPOSITE ENDS AND SIDES.

3. PERSONNEL AND SERVICE
DOORS NOT SHOWN SHALL BE
DESIGNED TO MINIMUM REFERENCED
CLADDING PRESSURE AS NOTED ON
PAGE 2.0, IF APPLICABLE.

		Calhoun Super Structures Ltd. 17072 Bruce Rd #10 Torr, Ontario, Canada N0H 2N0 1-800-393-9994 www.calhoun.ca www.calsuperstructure.com	
		NAME	DATE
		J L K	02/09/2015
		R W H	02/09/2015
		CHKD	02/09/2015
		ENG. APRR.	Q R 17/09/2015
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NO.	DESCRIPTION	DATE	
REVISION / ISSUE			



CALHOUN

ELEVATION B

60" VP SERIES

403935 VP# 60X96 R1

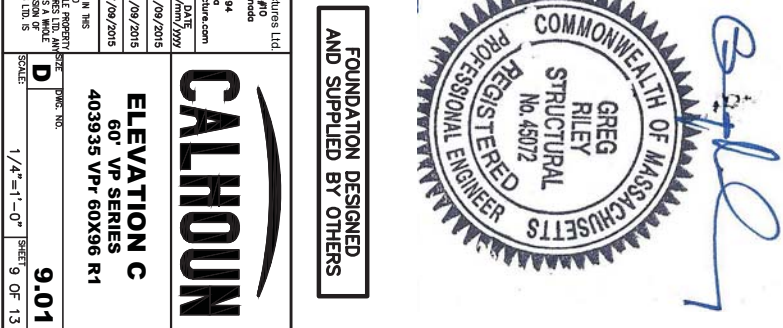
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SHEET 8 OF 13

DATE: 8.01

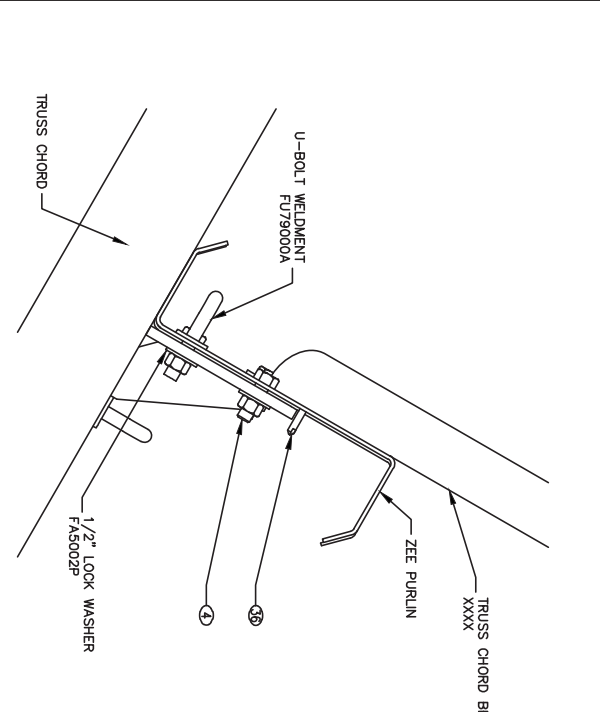
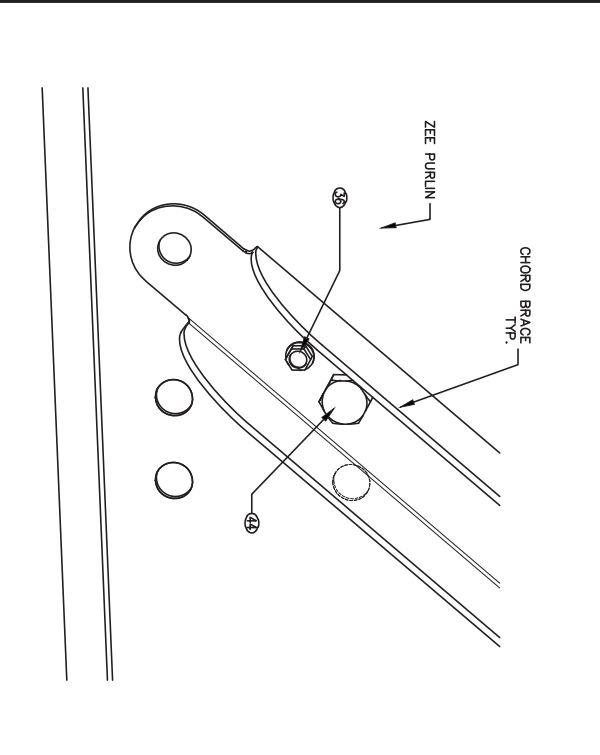
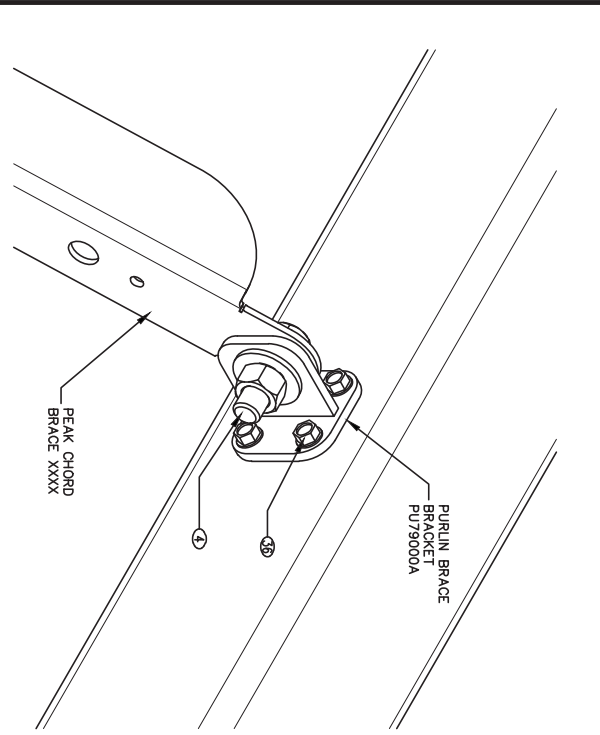
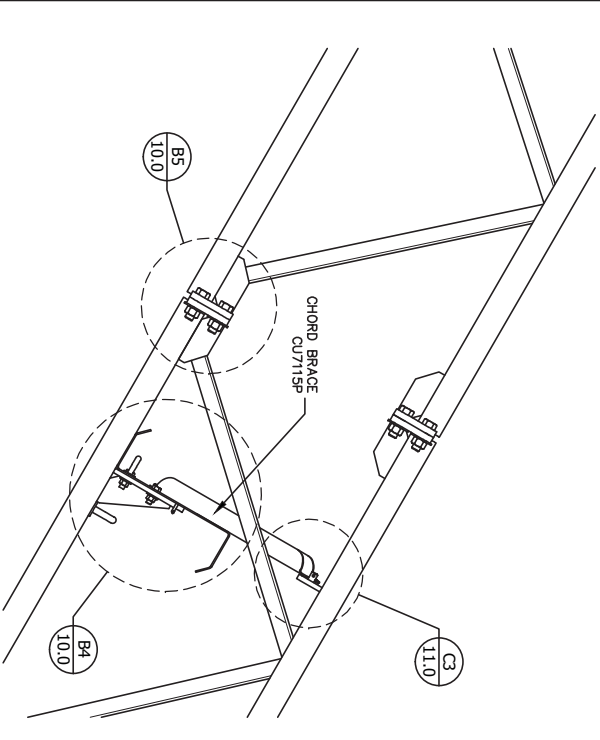
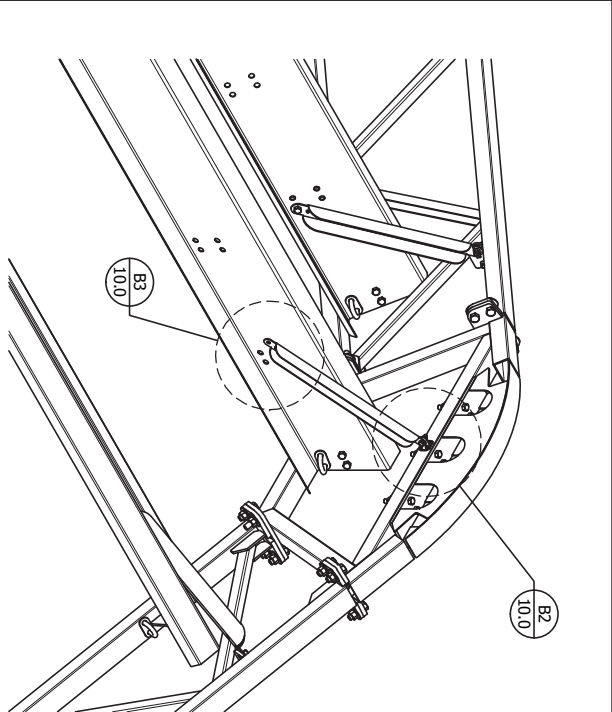
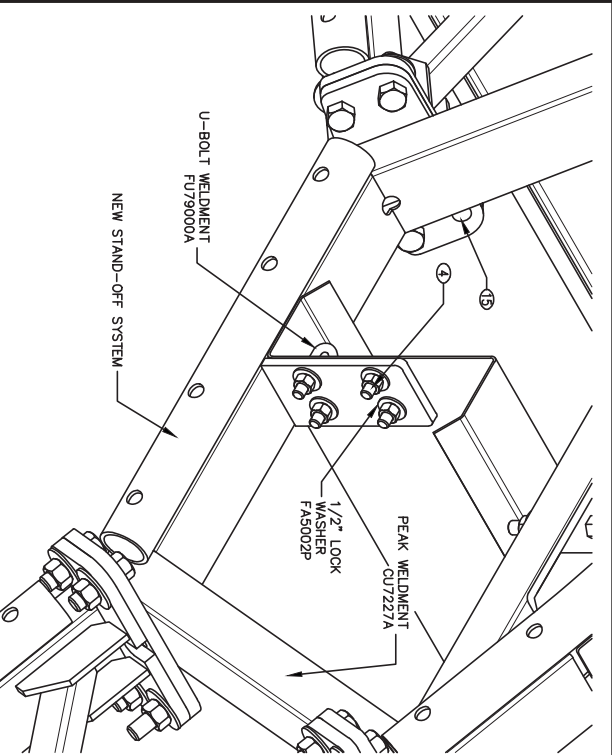
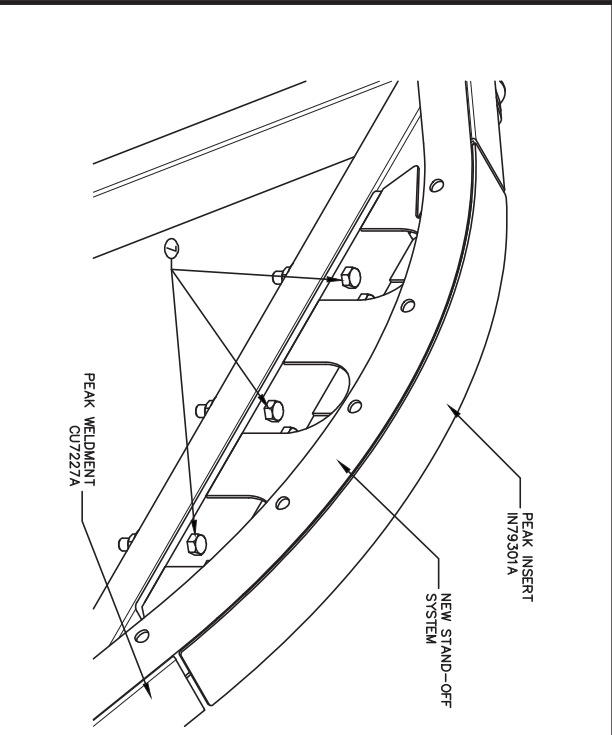
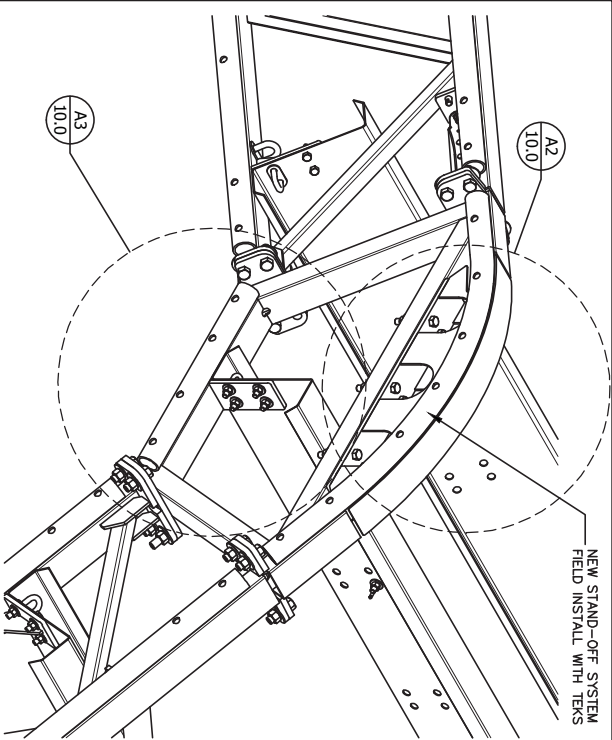


20

[illegible][illegible]

A circular professional engineer seal for the Commonwealth of Massachusetts. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS". Inside the ring, the name "GREG RILEY" is written above "STRUCTURAL ENGINEER". Below that, it says "REGISTERED PROFESSIONAL ENGINEER". In the center, the number "No. 45072" is printed.

- [illegible]



DETAIL B1 – 34'-65' VP TYPICAL TRUSS CONNECTIONS

DETAIL B2 – CHORD BRACE TO PEAK TRUSS CONNECTION

DETAIL B3 – CHORD BRACE TO ZEE PURLIN CONNECTION

DETAIL B4 – 34'-80' VP ZEE PURLIN/CHORD BRACE/CABLE CONNECTION

HARDWARE SCHEDULE (AS OCCURS)

ITEM No.	DESCRIPTION	PART No.	ITEM No.	DESCRIPTION	PART No.
1	HEX BOLT 3/8 X 1-1/2	FA0029P	1	CARRIAGE BOLT 3/8 X 1-1/2	FC06015005G
2	---	---	2	CARRIAGE BOLT 3/8 X 4	FA0103P
3	---	---	3	CARRIAGE BOLT 3/8 X 4-1/2	FA0102P
4	HEX BOLT 1/2 X 1-1/2	FA0005P	4	CARRIAGE BOLT 1/2 X 2	FA0146P
5	HEX BOLT 1/2 X 2-1/2	FA0151P	5	CARRIAGE BOLT 1/2 X 4-1/2	FA0138P
6	HEX BOLT 1/2 X 2-1/2 GR8	FA7021P	6	CARRIAGE BOLT 1/2 X 5	FA0127P
7	HEX BOLT 1/2 X 3-1/2	FA0006P	7	CARRIAGE BOLT 1/2 X 5-1/2	FA7010P
8	HEX BOLT 1/2 X 4	FA0009P	8	CARRIAGE BOLT 5/8 X 1-1/2	FA0142P
9	HEX BOLT 1/2 X 4-1/2	FA0076P	9	CARRIAGE BOLT 5/8 X 6	FA7017P
10	HEX BOLT 1/2 X 5	FA0010P	10	LAG BOLT 3/8 X 1-1/2	FA0030P
11	HEX BOLT 1/2 X 5-1/2	FA0080P	11	LAG BOLT 1/2 X 3-1/2	FA0007P
12	HEX BOLT 1/2 X 6-1/2	FA0080P	12	TEK SCREWS 1/4 X 1-1/4	FA0085P
13	HEX BOLT 1/2 X 7-1/2	FH08075005G	13	TEK SCREWS 1/4 X 1-1/2 GAS	FA7002P
14	HEX BOLT 5/8 X 1-1/2	FA0059P	14	TEK SCREWS 1/4 X 1 WHITE	FA0067P
15	HEX BOLT 5/8 X 2	FA0061P	15	TEK SCREWS 12-24 X 1-1/4	FA0147P
16	HEX BOLT 5/8 X 2-1/2	FA0062P	16	TEK SCREWS 1/4 X 2-1/2	FA0089P
17	HEX BOLT 5/8 X 3	FA0063P	17	---	---
18	HEX BOLT 5/8 X 4	FA0055P	18	THREADED ROD 5/8 X 5	FR10050002G
19	HEX BOLT 5/8 X 5	FA0074P	19	CARRIAGE BOLT 5/8 X 2	FC10020005G
20	HEX BOLT 5/8 X 6	FA7016P	20	HEX BOLT 1/2 X 1	FH08010005G
21	HEX BOLT 3/4 X 3	FA0077P	21	---	---
22	HEX BOLT 3/4 X 5	FA6005P	22	---	---
23	HEX BOLT 7/8 X 2-1/2	FA0120P	23	---	---
24	HEX BOLT 1-1/4 X 4-1/2	FA7015P	24	CONCRETE ANCHORS BY OTHERS	---

- NOTES:
1. REFERENCE TO BOLTS AND/OR U-BOLTS INCLUDES ASSOCIATED NUT AND WASHER.
2. ALWAYS INSTALL WASHER ON TURN SIDE OF BOLT - UNDO.
3. *** = PART NUMBER VARIES ACCORDING TO APPLICABLE BAY SPACING.

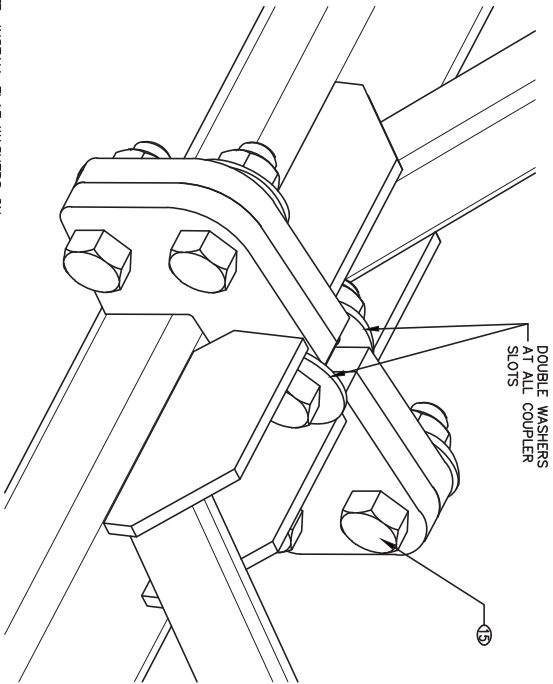


				Calhoun Super Structures Ltd. 1-800-387-2804 Toronto, Ontario, Canada www.calhoun.ca	NAME: J.L.K. DATE: 02/09/2015 CHECKED: R.W.H. DATE: 02/09/2015 ENG. APPR.: G.R. DATE: 17/09/2015	THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. S. PROVIDED.	DETAILS 60' VP SERIES 403935 VPr 60X96 R1	SCALE: N T S	SHEET 10 OF 13
1	ENGINEER APPROVAL	17/09/2015							
	DESCRIPTION	DATE							
	REVISION / ISSUE								

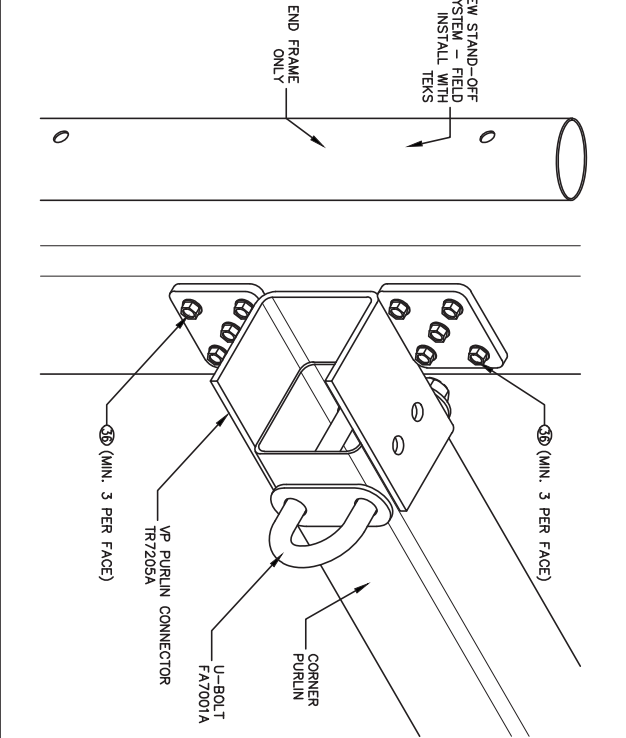
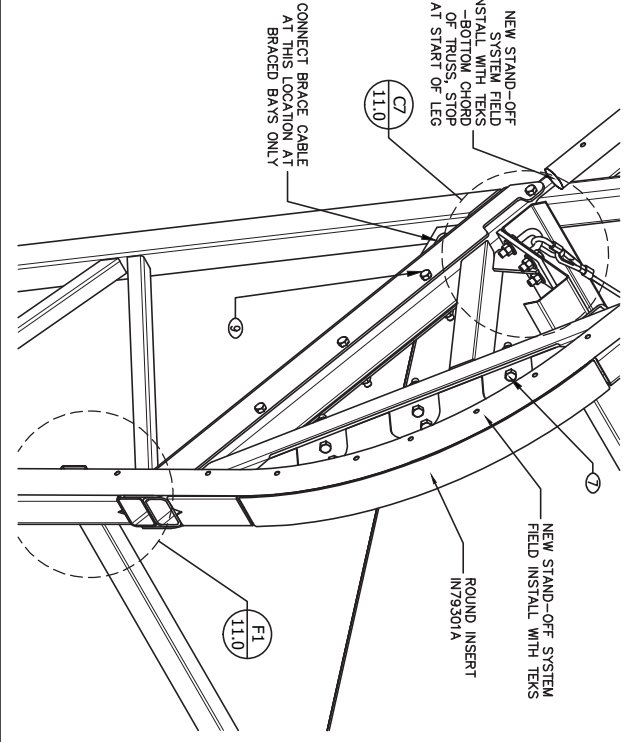
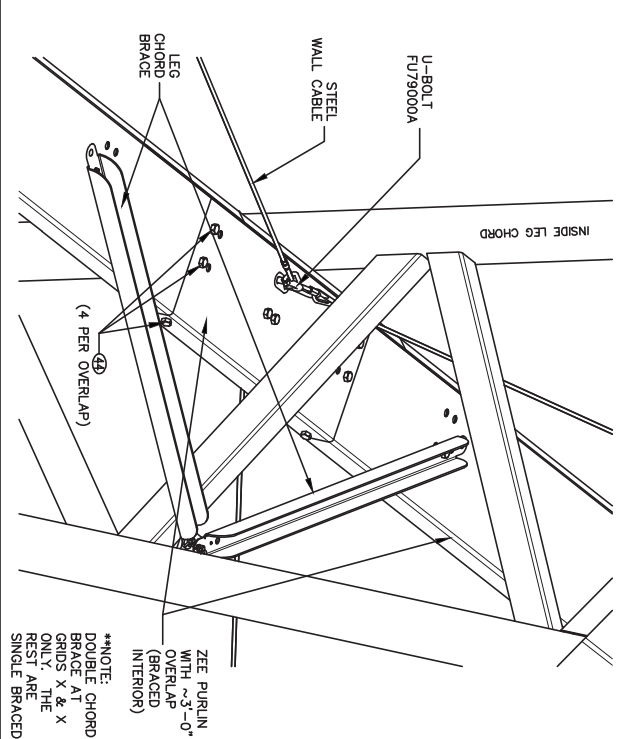
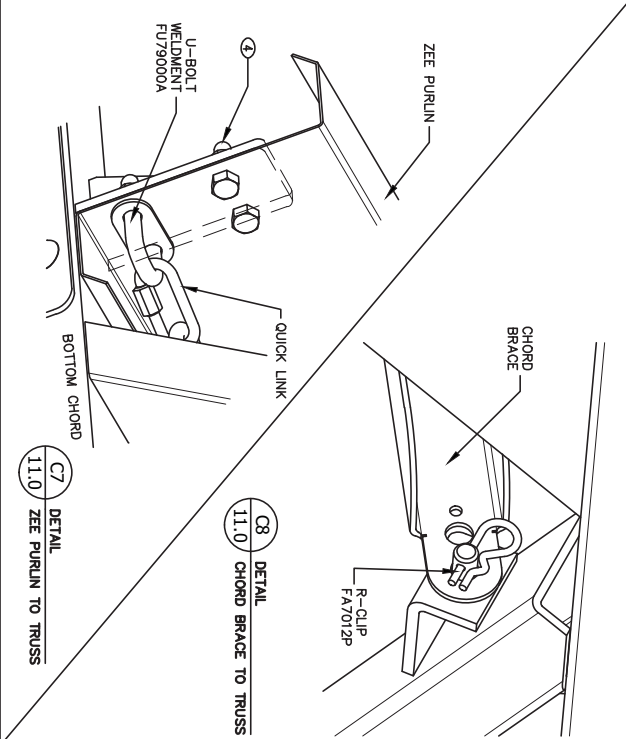
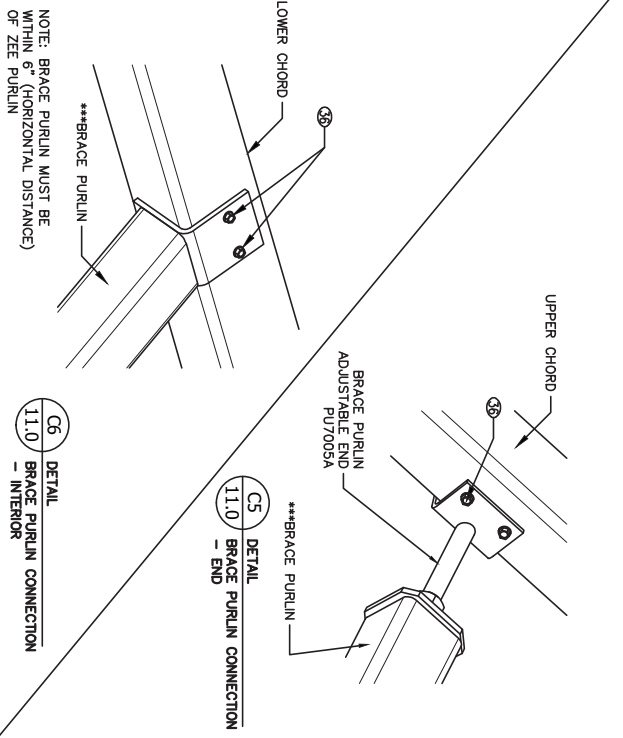
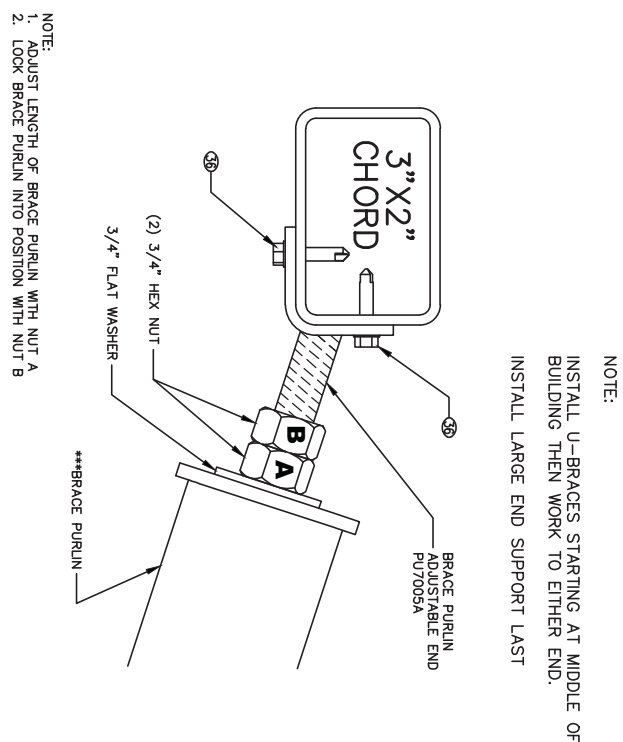
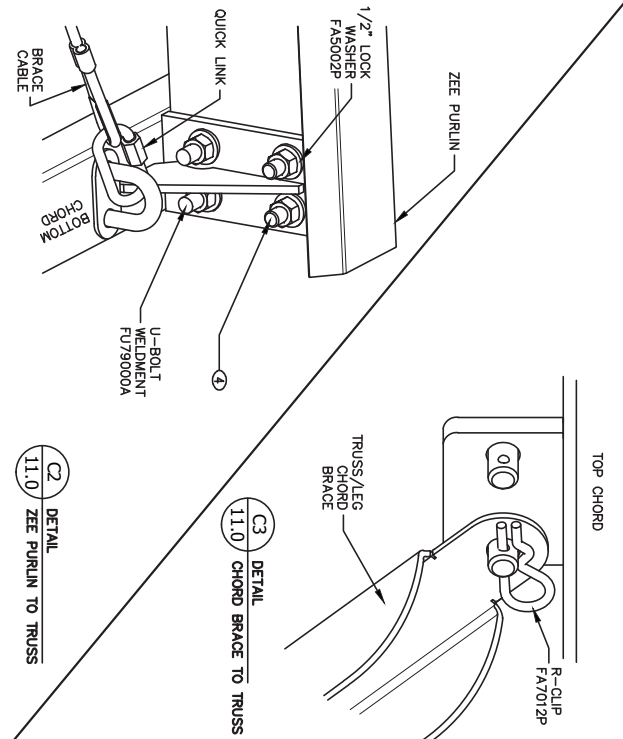
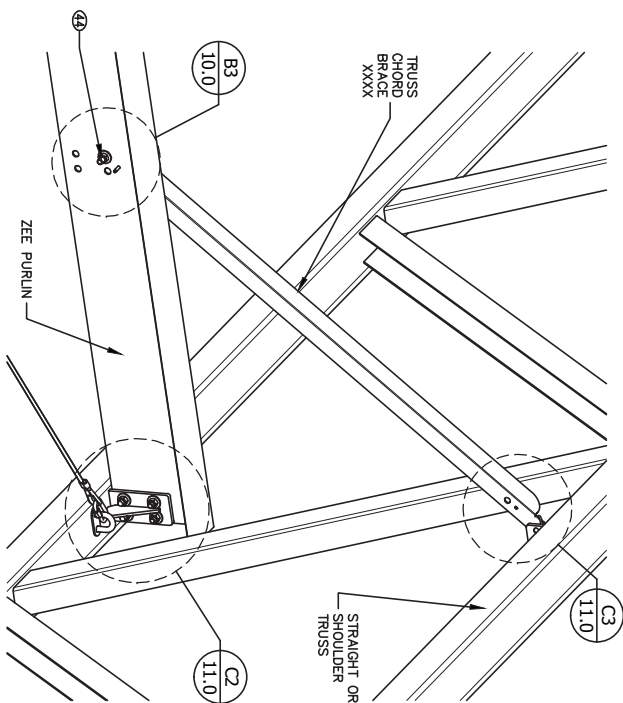
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DETAIL B5 – TYPICAL COUPLER CONNECTION (34'-100')



NOTE: INSTALL FLAT WASHERS ON
TURN SIDE OF 5/8" BOLT



DETAIL C7/C8 - ZEE PURLIN/CHORD BRACE CONNECTION (SHOULDER END)

DETAIL D1-34'-65' VP HALF WALL CABLE CONNECTION (VIEW FROM OUTSIDE)

DETAIL E1 - 34'-65' VP LEG TO SHOULDER CONNECTION - END

DETAIL F1 - TEK ON PURLIN CONNECTION - END BAY

HARDWARE SCHEDULE (AS OCCURS)

ITEM No.	DESCRIPTION	PART No.	ITEM No.	DESCRIPTION	PART No.
HEX BOLT 3/8 X 1-1/2	FA0029P		CARRIAGE BOLT 3/8 X 1-1/2	FC060150G5G	
---	---		CARRIAGE BOLT 3/8 X 4	FA0103P	
---	---		CARRIAGE BOLT 3/8 X 4-1/2	FA0102P	
4 HEX BOLT 1/2 X 1-1/2	FA0005P		CARRIAGE BOLT 1/2 X 2	FA0146P	
HEX BOLT 1/2 X 2-1/2	FA0151P		CARRIAGE BOLT 1/2 X 4-1/2	FA0138P	
HEX BOLT 1/2 X 2-1/2 GR8	FA7021P		CARRIAGE BOLT 1/2 X 5	FA0127P	
7 HEX BOLT 1/2 X 3-1/2	FA0006P		CARRIAGE BOLT 1/2 X 5-1/2	FA7010P	
HEX BOLT 1/2 X 4	FA0009P		CARRIAGE BOLT 5/8 X 1-1/2	FA0142P	
HEX BOLT 1/2 X 4-1/2	FA0076P		CARRIAGE BOLT 5/8 X 6	FA7017P	
HEX BOLT 1/2 X 5	FA0010P		LAG BOLT 3/8 X 1-1/2	FA0030P	
HEX BOLT 1/2 X 5-1/2	FA0080P		LAG BOLT 1/2 X 3-1/2	FA0007P	
HEX BOLT 1/2 X 6-1/2	FA0085G5G5G	36	TEK SCREWS 1/4 X 1-1/4	FA0086P	
HEX BOLT 5/8 X 1-1/2	FA0059P		TEK SCREWS 1/4 X 1 WHITE	FA0067P	
HEX BOLT 5/8 X 2	FA0061P		TEK SCREWS 12-24 X 1-1/4	FA0147P	
HEX BOLT 5/8 X 2-1/2	FA0062P		TEK SCREWS 1/4 X 2-1/2	FA0089P	
HEX BOLT 5/8 X 3	FA0063P		---	---	
HEX BOLT 5/8 X 4	FA0055P		THREADED ROD 5/8 X 5	FR100500G2G	
HEX BOLT 5/8 X 5	FA0074P		CARRIAGE BOLT 5/8 X 2	FC100200G5G	
HEX BOLT 3/4 X 3	FA7016P	44	HEX BOLT 1/2 X 1	FO080100G5G	
HEX BOLT 3/4 X 5	FA6007P				
HEX BOLT 7/8 X 2-1/2	FA0120P				
HEX BOLT 1-1/4 X 4-1/2	FA7015P		CONCRETE ANCHORS BY OTHERS		

- NOTES:
1. REFERENCE TO BOLTS AND/OR U-BOLTS INCLUDES ASSOCIATED NUT AND WASHER.
2. ALWAYS INSTALL WASHER ON TURN SIDE OF BOLT - UNDO.
3. *** = PART NUMBER VARIES ACCORDING TO APPLICABLE BAY SPACING.

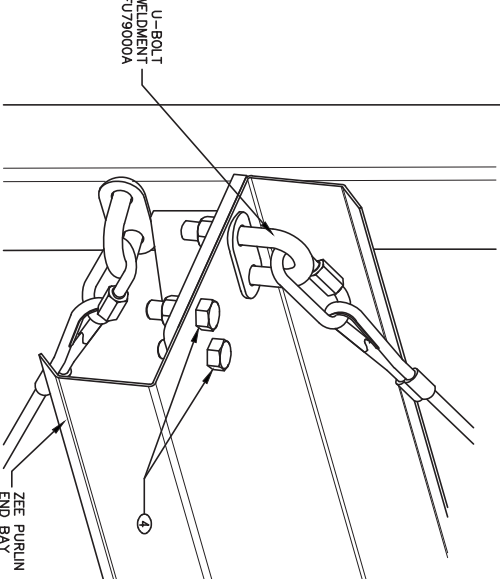


FOUNDATION DESIGNED
AND SUPPLIED BY OTHERS

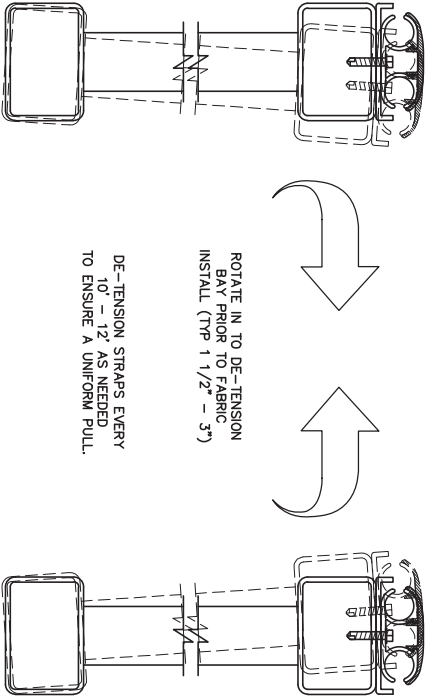
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DETAILS
60' VP SERIES
403935 VPr 60X96 R1

DETAIL F2 - CABLE / ZEE PURLIN CONNECTION AT LEG - END



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				NAME DATE JLK 02/09/2015	
				CHECKED R W H 02/09/2015	
				ENG. APPR. G R 17/09/2015	
1	ENGINEER APPROVAL	17/09/2015	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. AND IS TO BE USED ONLY FOR THE PROJECT AND WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. IS PROHIBITED.		
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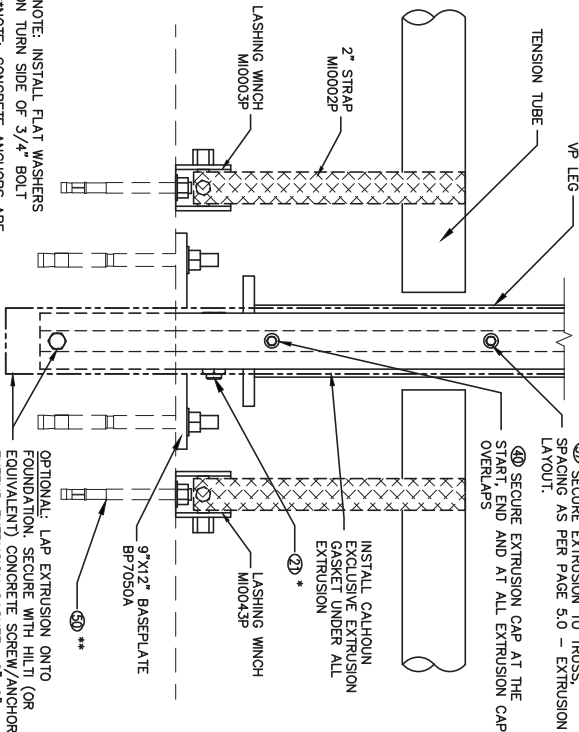


DE-TENSION STRAPS EVERY 10' - 12' AS NEEDED TO ENSURE A UNIFORM PULL.

NOTE: ONLY WATER BASE OR CABLE PULLING LUBRICANT (IE. GREENLEE WINTER GEL / CLEARGLIDE) IS ALLOWED.

NEVER USE ANY PETROLEUM BASED LUBRICANT (IE. VASELINE) AS IT WILL HAVE DETRIMENTAL IMPACT ON THE FABRIC AND MAY VOID THE WARRANTY

DETAIL P1 - KEDER PANEL INSTALLATION



② SECURE EXTRUSION TO TRUSS, SPACING AS PER PAGE 5.0 - EXTRUSION LAYOUT.

④ SECURE EXTRUSION CAP AT THE START/END AND AT ALL EXTRUSION CAP OVERLAPS

INSTALL CALHOUN EXCLUSIVE EXTRUSION GASKET UNDER ALL EXTRUSION

②*

LASHING WINCH M10003P

9"x12" BASEPLATE BP7050A

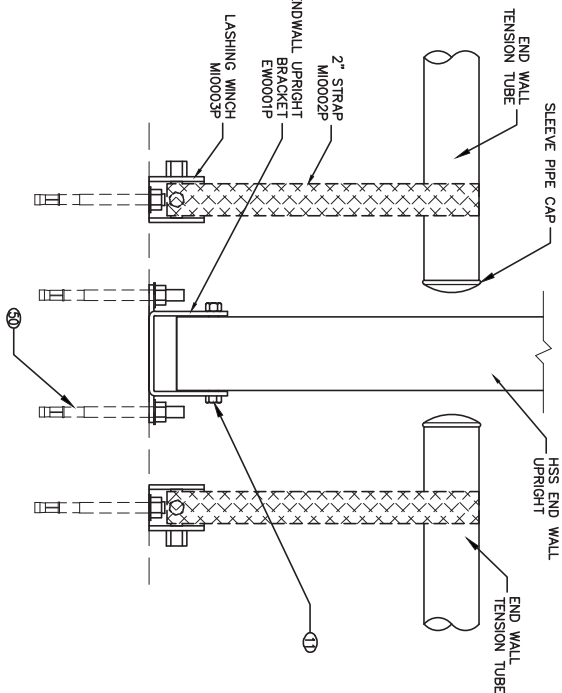
⑤**

OPTIONAL: LAP EXTRUSION ONTO FOUNDATION. SECURE WITH HILT (OR EQUIVALENT) CONCRETE SCREW/ANCHOR. EXTEND EXTRUSION GASKET ~2'-6" PAST EXTRUSION

*NOTE: INSTALL FLAT WASHERS ON TURN SIDE OF 3/4" BOLT

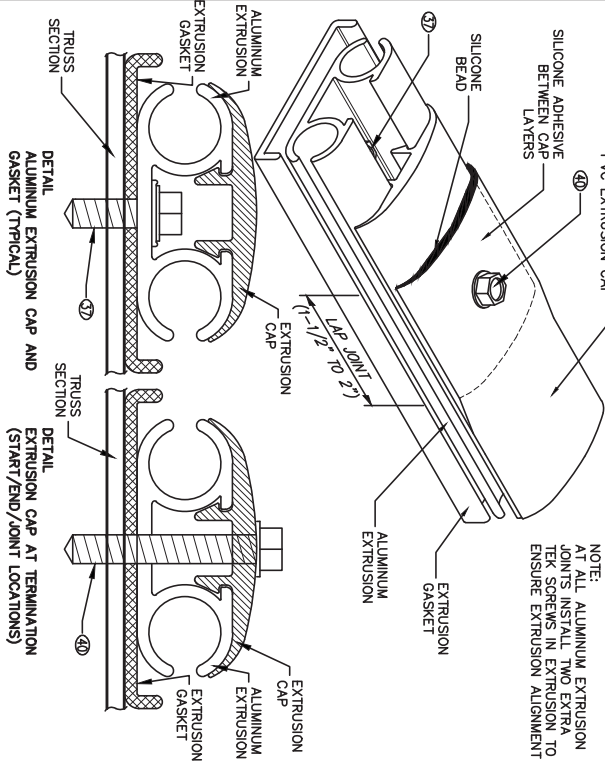
**NOTE: CONCRETE ANCHORS ARE DESIGNED AND SUPPLIED BY OTHERS

DETAIL P2 - SIDE WALL FABRIC TERMINATION AT BASE PLATE



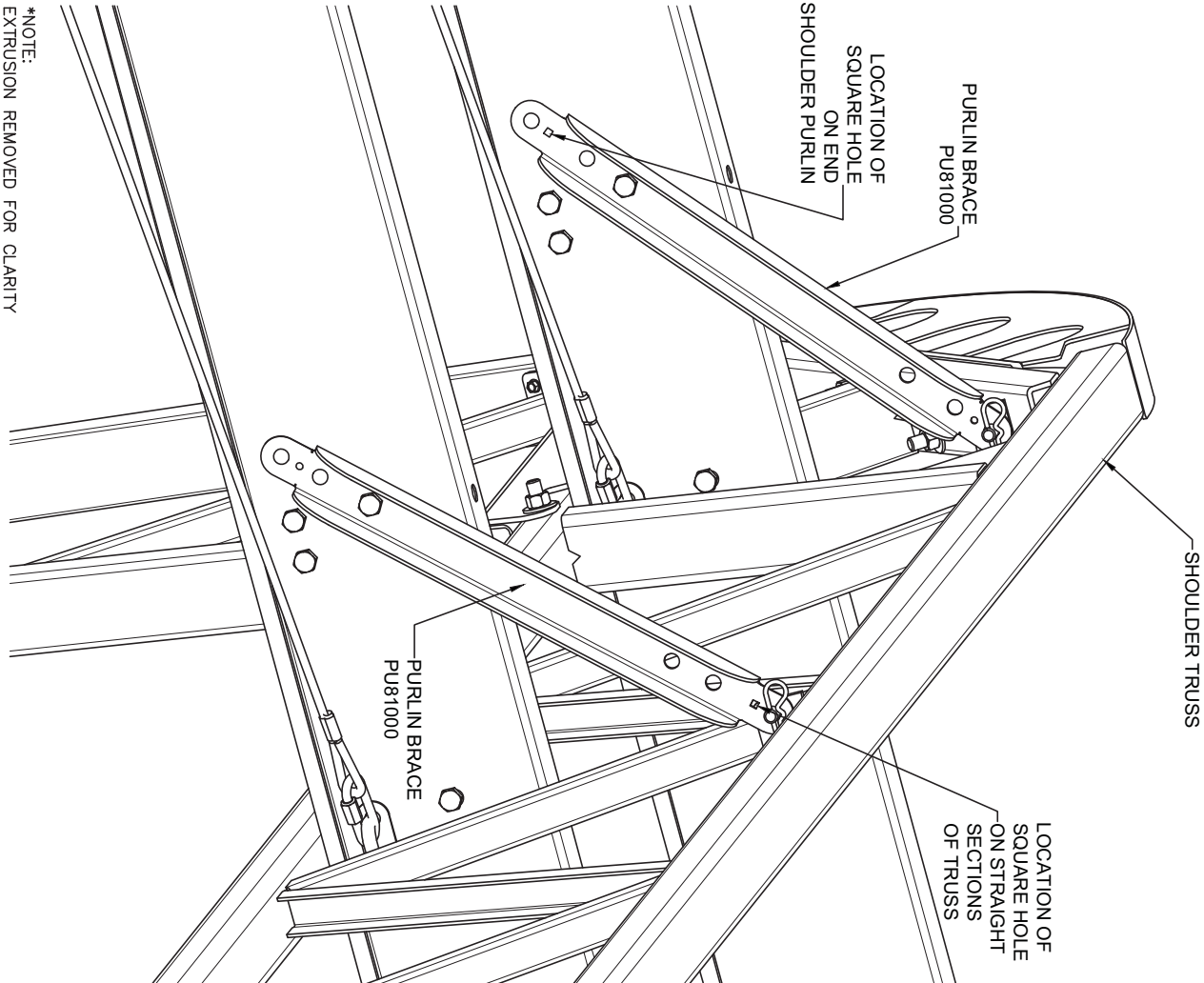
NOTE: CONCRETE ANCHORS ARE DESIGNED AND SUPPLIED BY OTHERS

DETAIL P3 - END WALLS FABRIC TERMINATION AT HSS UPRIGHT



NOTE: ALUMINUM EXTRUSION JOINTS INSTALL TWO EXTRA TEK SCREWS IN EXTRUSION TO ENSURE EXTRUSION ALIGNMENT

DETAIL Q1 - VP ALUMINUM EXTRUSION, EXTRUSION CAP & GASKET (TYPICAL)



*NOTE: EXTRUSION REMOVED FOR CLARITY

DETAIL Q2 - PURLIN BRACE ORIENTATION

ITEM No.	DESCRIPTION	PART No.	ITEM No.	DESCRIPTION	PART No.
	HEX BOLT 3/8 X 1-1/2	FA0029P		CARRIAGE BOLT 3/8 X 1-1/2	FC060150056
	----	----		CARRIAGE BOLT 3/8 X 4	FA0103P
	----	----		CARRIAGE BOLT 3/8 X 4-1/2	FA0102P
	HEX BOLT 1/2 X 1-1/2	FA0005P		CARRIAGE BOLT 1/2 X 2	FA0146P
	HEX BOLT 1/2 X 2-1/2	FA0151P		CARRIAGE BOLT 1/2 X 4-1/2	FA0138P
	HEX BOLT 1/2 X 2-1/2 GR8	FA7021P		CARRIAGE BOLT 1/2 X 5	FA0127P
	HEX BOLT 1/2 X 3-1/2	FA0006P		CARRIAGE BOLT 1/2 X 5-1/2	FA7010P
	HEX BOLT 1/2 X 4	FA0009P		CARRIAGE BOLT 5/8 X 1-1/2	FA0142P
	HEX BOLT 1/2 X 4-1/2	FA0076P		CARRIAGE BOLT 5/8 X 6	FA7017P
	HEX BOLT 1/2 X 5	FA0010P		LAG BOLT 3/8 X 1-1/2	FA0030P
11	HEX BOLT 1/2 X 5-1/2	FA0080P		LAG BOLT 1/2 X 3-1/2	FA0007P
	HEX BOLT 1/2 X 6-1/2	FA080650056		TEK SCREWS 1/4 X 1-1/4	FA0085P
	HEX BOLT 1/2 X 7-1/2	FA080750056	37	TEK SCREWS 1/4 X 1-1/2 GAS	FA7002P
	HEX BOLT 5/8 X 1-1/2	FA0059P		TEK SCREWS 1/4 X 1 WHITE	FA0067P
	HEX BOLT 5/8 X 2	FA0061P		TEK SCREWS 12-24 X 1-1/4	FA0147P
	HEX BOLT 5/8 X 2-1/2	FA0062P	40	TEK SCREWS 1/4 X 2-1/2	FA0089P
	HEX BOLT 5/8 X 3	FA0063P		----	----
	HEX BOLT 5/8 X 4	FA0055P		THREADED ROD 5/8 X 5	FR100500526
	HEX BOLT 5/8 X 5	FA0074P		CARRIAGE BOLT 5/8 X 2	FC100200566
	HEX BOLT 5/8 X 6	FA7016P		HEX BOLT 1/2 X 1	FA080100566
21	HEX BOLT 3/4 X 3	FA0077P			
	HEX BOLT 3/4 X 5	FA0005P			
	HEX BOLT 7/8 X 2-1/2	FA0120P			
	HEX BOLT 1-1/4 X 4-1/2	FA7015P	50	CONCRETE ANCHORS BY OTHERS	

NOTES:
1. REFERENCE TO BOLTS AND/OR U-BOLTS INCLUDES ASSOCIATED NUT AND WASHER.
2. ALWAYS INSTALL WASHER ON TURN SIDE OF BOLT - UNO.
3. *** = PART NUMBER VARIES ACCORDING TO APPLICABLE BAY SPACING.

FOUNDATION DESIGNED
AND SUPPLIED BY OTHERS

CALHOUN

DETAILS
60' VP SERIES
403935 VPr 60X96 R1

			Calhoun Super Structures Ltd. 1-800-387-3934 www.calhoun.ca	
			NAME DATE J.L.K. 02/09/2015	
			CHECKED R.W.H. 02/09/2015	
			ENG. APPR. G.R. 17/09/2015	
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