DWG #	DRAWING TITLE	REV	DATE	REV	DATE	REV	DATE	REV	DATE	REV	DATE
SECTION 1 – PROJECT INFORMATION											
1.0	DRAWING SCHEDULE	1	31 MAY 18	2	11 JUN 18	3	18 JUN 18				
1.1	PROJECT LAYOUT	1	31 MAY 18								
1.2	DESIGN CRITERIA	1	31 MAY 18								
1.3	STRUCTURE SPECIFICATIONS	1	31 MAY 18								
SECTION 2 – FOUNDATION INTERFACE											
2.0	BASE PLATE LAYOUT	1	31 MAY 18								
2.1	BASE PLATE DETAILS	1	31 MAY 18								
SECTION 3 – PRIMARY STRUCTURE											
3.0	BUILDING PROFILE	1	31 MAY 18								
3.1	BRACING LAYOUT	1	31 MAY 18								
3.2	STANDARD DETAILS 1	1	31 MAY 18								
3.3	STANDARD DETAILS 2	1	31 MAY 18								
3.4	STANDARD DETAILS 3	1	31 MAY 18								
SECTION 4 – ENDWALLS											
4.0	ENDWALL 1	1	31 MAY 18	2	11 JUN 18						
4.1	ENDWALL 2	1	31 MAY 18	2	11 JUN 18						
4.2	ENDWALL DETAILS 1	1	31 MAY 18								
4.3	ENDWALL DETAILS 2	1	31 MAY 18	2	11 JUN 18						
SECTION 5 – FABRIC TERMINATION											
SECTION 6 – ACCESSORIES											
SECTION 7 – ARCHITECTURAL											
7.0	COVER INSULATION	1	31 MAY 18	2	18 JUN 18						
7.1	ENDWALL1 INSULATION	1	31 MAY 18								
7.3	ENDWALL2 INSULATION	1	31 MAY 18								

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CUSTOMER:
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RICHMOND, BC

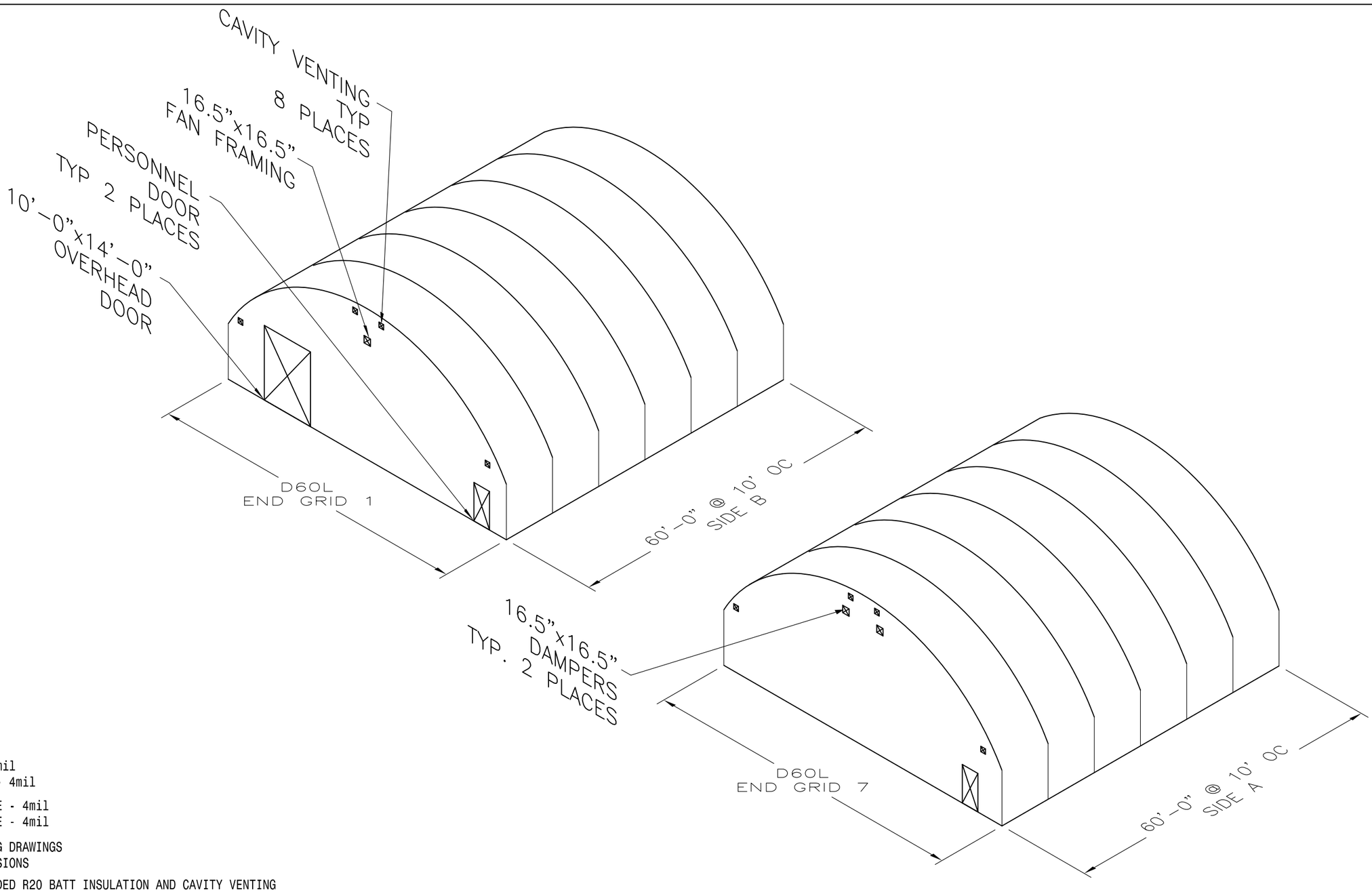
PROJECT:
TEST LAB
AFDE–SITE C, BC

DRAWING TITLE:
DRAWING SCHEDULE

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DWG REV	REVISED BY: DESCRIPTION	DATE
1	MD: RELEASED	31 MAY 18
2	MD: RELEASED	11 JUN 17
3	DM: REVISED INSULATION DETAIL	18 JUN 18

PROJECT ID: . | ORDER ID: 11854 | DRAWING: 1.0 | REV: 3



MAIN COVER: FR WHITE - 4mil
APRON & FLAPS: FR WHITE - 4mil

Endwall 1: HSS & FR WHITE - 4mil
Endwall 2: HSS & FR WHITE - 4mil

PLEASE REFER TO FOLLOWING DRAWINGS
FOR EXACT BUILDING DIMENSIONS

THIS BUILDING HAS SUSPENDED R20 BATT INSULATION AND CAVITY VENTING

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PROJECT:
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DRAWING TITLE:
PROJECT LAYOUT

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DWG REV	REVISED BY: DESCRIPTION	DATE
1	MD: RELEASED	31 MAY 18

PROJECT ID: . | ORDER ID: 11854 | DRAWING: 1.1 | REV: 1

This project has been designed and fabricated in accordance with the following:

1. DESCRIPTION

Owner's Name and Address:	Dragados 13777 Commerce Pkwy, Richmond, BC
Building Supplier's Name and Address:	Norseman Structures 3815 Wanuskewin Rd. Saskatoon, SK
Manufacturer's Name and Address:	Norseman Structures 3815 Wanuskewin Rd. Saskatoon, SK
Site Location:	Ft. Saint John, BC
Building Type:	D–Series
Building Size:	60'–3 3/8" (18.37m) x 60'–4 1/4" (18.40m)
Truss Spacing:	10'–0" (3.05m)
Applicable Building Code:	National Building Code of Canada 2014 (NBC 2010)
Fabric Type:	FR

2. DESIGN STANDARDS

National Building Code of Canada 2010 (NBC 2010), Division B, Part 4: Structural Design
CAN/CSA S16, Limit States Design of Steel Structures
CAN/ULC S109, Flame Tests of Flame Resistant Fabrics and Films

3. MANUFACTURING STANDARDS

Fabrication in accordance with CAN/CSA S16 and CAN/CSA S136 as applicable.
Welding in accordance with CSA W59 and CAN/CSA–S136, as applicable
Norseman Structures is certified in accordance with CSA W47.1 Division 2
Welders have been qualified in accordance with CSA W47.1

4. DESIGN CRITERIA

Importance Category: Normal Hazard
Truss bracing is provided in accordance with CAN/CSA–S136, Clause D3

A) DEAD LOADS

I) Self–weight of building components
II) Collateral load, not to exceed 3.83 psf (0.1835 kPa) as an allowance for mechanical, electrical, ceiling, insulation, sprinklers, etc, or any combination thereof

B) LIVE LOADS

Live loads determined in accordance with 4.1.5 of NBC 2010
Roof live load 18.23 psf (0.87 kPa)

C) SNOW LOADS

Snow loads determined in accordance with 4.1.6 & Commentary G of NBC 2010
Snow loads applied on any one and two adjacent spans of continuous purlins
Snow loads applied on any two adjacent spans of modular rigid frames with continuous roof beams

Importance Factor, Is	1.0
Ground Snow Load, Ss (1/50)	58.48 psf (2.80 kPa)
Associated Rain Load, Ss (1/50)	2.09 psf (0.10 kPa)
Basic Roof Snow Load Factor, Cb	0.8
Wind Exposure Factor, Cw	0.75
Flat Roof Snow Load	37.18 psf (1.78 kPa)
Drift Load Considered?	No

D) WIND LOADS

Wind loads determined in accordance with 4.1.7 & Commentary I of NBC 2010

Reference Wind Pressure, q (1/50)	8.15 psf (0.39 kPa)
Importance Factor, Iw	1.0
Exposure Factor, Ce	0.9
Building Enclosure	Partially Enclosed

Building internal pressure category: 3

E) SEISMIC LOAD

Seismic loads determined in accordance with 4.1.8 of NBC 2010
Sa(0.2) 0.098 Sa(0.5) 0.061 Sa(1.0) 0.032 Sa(2.0) 0.019

F) LOAD COMBINATIONS

Load combinations determined in accordance with section 4.1.3 & Commentary A of NBC 2010

5. FOUNDATION LOADS

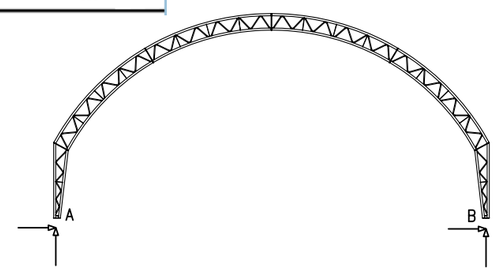
The maximum forces at the foundation/supports due to the site loads listed are as follows:
Foundation loads listed below are unfactored and have not been combined with any other load case.
Foundation designer to combine and factor as necessary.

		END FRAMES	Horizontal	Vertical	Horizontal	Moment		
		L/C	Fx kip	Fy kip	Fz kip	Mx kip-in	My kip-in	Mz kip-in
Max Fx	SIDE A	71 1.25(D+CL)+1.5BSL	**4.27**	8.34	-0.54	-0.55	-0.04	-20.2
Min Fx	SIDE B	71 1.25(D+CL)+1.5BSL	**-4.27**	8.34	-0.54	-0.55	0.04	20.2
Max Fy	SIDE A	71 1.25(D+CL)+1.5BSL	4.27	**8.34**	-0.54	-0.55	-0.04	-20.2
Min Fy	SIDE A	84 .9D+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	-1.11	**-8.4**	-2.4	-5.87	3.73	1.53
Max Fz	SIDE A	85 .9D+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	-0.5	-3.41	**2.16**	5.9	-0.25	-2.85
Min Fz	SIDE A	84 .9D+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	-1.11	-8.4	**-2.4**	-5.87	3.73	1.53
Max Mx	SIDE B	77 1.25(D+CL)+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	1.04	-2.59	2.13	**5.92**	0.56	-8.41
Min Mx	SIDE B	78 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) -IP)	1.13	-2.84	-2.2	**-6.14**	-0.66	-8.58
Max My	SIDE A	82 .9D+1.4(WPERP+ EDGE STRIP PERP -IP)	-1.79	0.94	0.54	1.04	**7.77**	17.39
Min My	SIDE A	82 .9D+1.4(WPERP+ EDGE STRIP PERP -IP)	-1.54	1.21	-0.5	-0.78	**-7.04**	15.81
Max Mz	SIDE A	81 .9D+1.4(WPERP+ EDGE STRIP PERP +IP)	-2.19	-2.81	0.49	0.29	4.13	**20.86**
Min Mz	SIDE A	71 1.25(D+CL)+1.5BSL	4.27	8.34	-0.54	-0.55	-0.04	**-20.2**

		INTERIOR BRACED FRAMES	Horizontal	Vertical	Horizontal	Moment		
		L/C	Fx kip	Fy kip	Fz kip	Mx kip-in	My kip-in	Mz kip-in
Max Fx	SIDE A	71 1.25(D+CL)+1.5BSL	**6.43**	12.83	0.44	0.29	1.58	-30.15
Min Fx	SIDE B	71 1.25(D+CL)+1.5BSL	**-6.43**	12.83	0.44	0.29	-1.58	30.15
Max Fy	SIDE A	71 1.25(D+CL)+1.5BSL	6.43	**12.83**	0.44	0.29	1.58	-30.15
Min Fy	SIDE A	84 .9D+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	-0.07	**-8.47**	-2.07	-5.63	-0.4	-0.77
Max Fz	SIDE B	77 1.25(D+CL)+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	0.87	-1.39	**1.94**	5.1	0.73	-9.06
Min Fz	SIDE A	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	0.62	-6.91	**-2.08**	-5.64	-0.55	-3.82
Max Mx	SIDE A	77 1.25(D+CL)+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	0.34	-1.77	1.93	**5.1**	-0.51	-8.04
Min Mx	SIDE A	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	0.62	-6.91	-2.08	**-5.64**	-0.55	-3.82
Max My	SIDE A	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	2.47	0.61	-0.38	-4.58	**2.04**	-9.2
Min My	SIDE B	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	-1.55	0.84	-0.35	-4.45	**-2.16**	-3.17
Max Mz	SIDE B	71 1.25(D+CL)+1.5BSL	-6.43	12.83	0.44	0.29	-1.58	**30.15**
Min Mz	SIDE A	71 1.25(D+CL)+1.5BSL	6.43	12.83	0.44	0.29	1.58	**-30.15**

		TYPICAL INTERIOR FRAMES	Horizontal	Vertical	Horizontal	Moment		
		L/C	Fx kip	Fy kip	Fz kip	Mx kip-in	My kip-in	Mz kip-in
Max Fx	SIDE A	71 1.25(D+CL)+1.5BSL	**7.07**	13.86	0	0	0	-33.33
Min Fx	SIDE B	71 1.25(D+CL)+1.5BSL	**-7.07**	13.86	0	0	0	33.33
Max Fy	SIDE A	71 1.25(D+CL)+1.5BSL	7.07	**13.86**	0	0	0	-33.33
Min Fy	SIDE A	84 .9D+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	0.54	**-6.07**	-0.31	-4.5	0.2	-2.21
Max Fz	SIDE A	85 .9D+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	0.74	0.65	**0.28**	4.18	-0.04	-8.52
Min Fz	SIDE A	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	1.28	-4.46	**-0.31**	-4.51	0.19	-5.49
Max Mx	SIDE A	77 1.25(D+CL)+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) -IP)	1.48	2.27	0.28	**4.19**	-0.06	-11.79
Min Mx	SIDE A	76 1.25(D+CL)+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	1.47	-4.04	-0.3	**-4.55**	-0.36	-5.81
Max My	SIDE B	84 .9D+1.4(WIND PAR (+Z) +EDGE STRIP PAR (+Z) +IP)	0.3	-5.32	-0.29	-4.43	**0.68**	-11.52
Min My	SIDE B	83 .9D+1.4(WIND PAR (-Z) +EDGE STRIP PAR (-Z) +IP)	0.31	-5.33	0.26	3.91	**-0.66**	-11.65
Max Mz	SIDE B	71 1.25(D+CL)+1.5BSL	-7.07	13.86	0	0	0	**33.33**
Min Mz	SIDE A	71 1.25(D+CL)+1.5BSL	7.07	13.86	0	0	0	**-33.33**

GRID 1 UPRIGHTS		GRID 7 UPRIGHTS	
HORIZONTAL (kips)	VERTICAL (kips)	HORIZONTAL (kips)	VERTICAL (kips)
2.91	---	2.28	---



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DEALER: NORSEMAN STRUCTURES SASKATOON, SK
CUSTOMER: DRAGADOS RICHMOND, BC
PROJECT: TEST LAB AFDE–SITE C, BC

DRAWING TITLE: DESIGN CRITERIA

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DWG REV	REVISED BY: DESCRIPTION	DATE
1	MD: RELEASED	31 MAY 18

PROJECT ID: . ORDER ID: 11854 DRAWING: 1.2 REV: 1

GENERAL
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ANCHOR BOLTS
ANCHOR BOLT DIAMETERS ARE DETERMINED IN ACCORDANCE WITH AISC OR ASTM F1554 STANDARD USING Fy = 36 KSI (248 MPa). ANCHOR BOLT LENGTHS AND LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY OTHERS.

ANCHOR BOLT PROJECTIONS BASED ON NO GROUT ARE AS FOLLOWS: MIN. 2" - MAX. 3 1/2"

FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR BOLTS MUST BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS.

FINISHED FLOOR ELEVATIONS AND UNDERSIDE OF BASE PLATE IS 100'-0" (1000.000mm) UNLESS NOTED.
ERECTION
THE ERECTOR MUST PROVIDE SAFE WORKING CONDITIONS AND PRACTICES CONFORMING TO ALL SAFETY REGULATIONS. ALL LIFTING DEVICES ARE TO BE SPECIFICALLY DESIGNED TO LIFT THE VARIOUS BUILDING COMPONENTS. SLINGS AND SPEADERS BARS TO BE USED TO PREVENT PERMANENT DEFORMATION OF ALL STRUCTURAL COMPONENTS.

ERECTION SHOULD START AT A BRACED BAY. ERECT AND TEMPORARILY SUPPORT TRUSSES. USE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE FRAMES. INSTALL PURLINS AND CROSS BRACING. PLUMB AND SQUARE TRUSSES IN ACCORDANCE WITH CAN/CSA-S16.1 AND OSHA 29 CFR PART 1926 - SAFETY STANDARD FOR STEEL ERECTION.

ENSURE ALL PURLINS REMAIN PARALLEL

STRUCTURAL FRAMING MEMBERS ARE CONSIDERED PLUMB, LEVEL AND ALIGNED WHEN VARIANCE DOES NOT EXCEED 1:500.

STRUCTURAL BOLTS.
BOLTS IN CONNECTIONS NOT SUBJECT TO TENSION LOADS, OR WHERE LOOSENING DUE TO VIBRATION OR LOAD FLUCTUATIONS ARE NOT DESIGN CONSIDERATIONS NEED ONLY BE SNUG TIGHTENED, WHICH IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT.

BOLTS IN CONNECTIONS SUBJECT TO TENSION LOADS REQUIRE PRE-TENSIONING TO MINIMUM TENSION.
ALL OTHER DIA BOLTS CONFORM TO SAE GR.5 OR EQUIVALENT.
ALL BOLTS SHALL BE PLATED / GALVANIZED OR SUNSEAL COATED.
ALL BOLT REFERENCES REQUIRE BOTH BOLT AND NUT.

-VALUES AS SHOWN IN THE TABLE BELOW-.

TABLE A - BOLT TENSION

SIZE		Gr 5/A325	
in	mm	kips	kN
5/8	16	18	80
3/4	19	28	125
7/8	22	39	174
1.0	25	51	227
1 1/8	29	56	249
1 1/4	32	71	316

TABLE B - BOLTED CONNECTION TORQUE VALUES

SIZE		Grade 5	
Dia. Inch	Threads Per Inch	Min Tensile ksi	Torque Dry ft-lbs
1/2	13	120	68
5/8	11	120	135
3/4	10	120	240
7/8	9	120	386

MATERIAL SPECIFICATIONS.

STRUCTURAL STEEL CONFORMS TO THE FOLLOWING SPECIFICATIONS:
PLATES - CSA G40.21 44W ASTM A 36 - GR 44W DESIGNED TO Fy 44ksi
H.S.S. > 3/16" WALL - ASTM A500 BUILDING DESIGNED TO Fy 50ksi Fu 60ksi
< 3/16" WALL (GATORSHIELD) - ASTM A500 GRADE C Fy 50ksi

STRUCTURAL CABLES CONFORM TO THE FOLLOWING SPECIFICATIONS:
THIMBLE - FEDERAL SPECIFICATION (USA) FF-T-276b
TURNBUCKLES - FEDERAL SPECIFICATION (USA) FF-T-791b
GALVANIZED CARBON STEEL CABLE - FEDERAL SPECIFICATION (USA) RR-W410D

PLATES & HSS VERTICALS
COATINGS OF STRUCTURAL PLATES AND HSS ARE HOT-DIPPED GALVANIZED TO A NORMAL COATING ZINC WEIGHT OF 2.0oz/sq ft (600g/sq m) (3.4mil).

GATORSHIELD
H.S.S. ARE IN-LINE GALVANIZED TO A NOMINAL COATING ZINC WEIGHT OF 0.6oz/sq ft (180g/sq m)(1.0mil).

CHROMATE CONVERSION COATING APPLIED OVER GALVANIZED SURFACE TO PROVIDE ADDITIONAL CORROSION PROTECTION.

CLEAR ORGANIC POLYMER APPLIED AS THE TOP SURFACE COAT TO RETARD OXIDATION, ENHANCE SURFACE APPEARANCE AND PROVIDE PRIMER BASE.
RECONDITIONING OF TRUSS SURFACE AT WELD LOCATION AS PER NACE NO.1/SSPC-SP5 WHITE METAL BLAST CLEANING THERMAL ZINC SPRAY AS PER SSPC-CS 23.00 / AWS C2.23 / NACE #12, SPECIFICATION FOR APPLICATION OF THERMAL SPRAY COATINGS.

ALL GATORSHIELD WILL DEMONSTRATE THE ABILITY TO WITHSTAND 1800 HOURS OF ACCELERATED SALT FOG TESTING TO THE CONDITION OF 5% SURFACE RED RUST, WHEN TESTED IN ACCORDANCE WITH ASTM B117 STANDARDS.

FABRIC / LINER NOTES
REMOVAL OF FABRIC OF ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
ALL TEARS MUST BE PATCHED IMMEDIATELY TO AVOID WARRANTY PROBLEMS.

EXTERIOR FABRIC WILL DEFLECT UNDER LOAD, THEREFORE ALL BUILDING ACCESSORIES (LIGHTING, HVAC, SPRINKLERS, ETC) MUST BE LOCATED BENEATH THE INNER CHORD OF THE TRUSS. ANYTHING ABOVE THIS MUST BE REVIEWED AND APPROVED IN WRITING BY NORSEMAN STRUCTURES OR SEVERE DAMAGE TO THE BUILDING AND ACCESSORIES MAY RESULT FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.

ALL POLYETHYLENE MEMBRANES WILL POSSESS THE FOLLOWING MINIMUM SPECIFICATIONS:
FABRIC SPECIFICATIONS

PHYSICAL	PROPERTIES	DESCRIPTION
BASE SCRIM	WOVEN HDPE SCRIM C/W UV/FR	HIGH DESITY POLYETHYLENE, WITH UV INHIBITITORS/FR INHIBITITORS
COATING THICKNESS	4 mil (94 gsm) EA. SIDE	AVERAGE 4 mil EXTERIOR COATING ON EACH SIDE OF BASE SCRIM
SURFACE TYPE	MODIFIED LDPE C/W UV/FR	MODIFIED LOW DENSITY POLYETHYLENE COATING WITH UV INHIBITORS/FR INHIBITITORS
TOTAL FABRIC WEIGHT	12.0 oz. / sq yd. (407 gsm)	AVERAGE ±5%

STRENGTH		TEST STANDARD
THICKNESS	23mils (0.59mm)	ASTM D-5199
GRAB TENSILE STRENGTH	350 lbs (1555N)	ASTM D-5034
TONGUE TEAR STRENGTH	110 lbs (489N)	ASTM D-2261
STRIP TENSILE STRENGTH	240 lbs/inch (2100N/5cm)	ASTM D-5035
MULLEN BURST	675 psi (4657 KPa)	ASTM D-3786
COLD CRACK	PASS -60°C	ASTM D-2136
% LIGHT TRANSMISSION	DWFR-11.4% WHITE/WHITE	ASTM E-903
UV & WEATHERING	>90% STRENGTH RETENTION AFTER 2000HRS	ASTM G-151
WATER VAPOR TRANSMISSION	0.038grains/h/ftsq/inHg(perms) 2.16 ng/Pa/s/msq	ASTM E-96

FIRE			TEST STANDARD
SCALE FLAME SPREAD	FSCI: 5	SD: 95	CAN/ULC S-102-07
SMALL SCALE FLAME TEST	CHAR: 98mm AV.	DRIP: NO	CAN/ULC S-109-03
LARGE SCALE FLAME TEST	CHAR: 104mm AV.	DRIP: NO	CAN/ULC S-109-09

ROOF PLAN NOTES
UNLESS NOTED, USE ø5/8" (16mm) BOLTS FOR PURLIN TO TRUSS, CABLE OR ROD BRACING TO TRUSS AND ANGLES TO TRUSS FOR ALL CONNECTIONS.

CABLE / ROD AND PURLIN BRACING ARE AN INTEGRAL PART OF THE TRUSS STRUCTURAL SYSTEMS AND SHOULD BE PROPERLY INSTALLED PRIOR TO ERECTION OF FABRIC ROOF AND ENDWALL PANELS. REMOVAL OR ALTERATION OF ANY BRACING WITHOUT PRIOR AUTHORIZATION FROM NORSEMAN STRUCTURES INC. IS PROHIBITED.

ELEVATION NOTES HOLES REQUIRED IN HSS COLUMNS AND HEADERS FOR FRAMED OPENINGS, DOOR OR WINDOW POST CONNECTIONS TO BE BY ERECTOR.

WALK DOOR, WINDOW AND FRAMED OPENING POSTS TO BE FIELD ANCHORED TO CONCRETE, IN ACCORDANCE WITH "HILTI KWIK-BOLTS" SPECIFICATIONS OR SIMILAR.

PARTITION WALL NOTE
FIELD INSTALLATION OF PARTITION WALL TO UNDERSIDE OF ANY ARCH FRAMING MEMBERS MUST ALLOW FOR VERTICAL BUILDING DEFLECTION. CONTACT NORSEMAN STRUCTURES INC. FOR REQUIRED CLEARANCES.

MATERIAL STORAGE
GALVANIZED, ALUMINIZED, AND COLORED MATERIALS ARE SUBJECT TO CORROSION AND DISCOLORATION IF THEY ARE IMPROPERLY STORED. SHORT TERM JOB SITE STORAGE OF STEEL COMPONENTS MAY BE TOLERATED, PROVIDED CARE IS TAKEN TO KEEP MATERIALS DRY AT ALL TIMES. WHEN TRUSSES ARE TO BE STORED OUTDOORS, THEY SHOULD BE PLACED AT AN ANGLE SUFFICIENT TO PROMOTE GOOD DRAINAGE. IN ADDITION, SEVERAL INCHES OF CLEARANCE MUST BE PROVIDED BETWEEN THE LOWER END AND THE GROUND TO ALLOW VENTILATION.

NOTE: NORSEMAN STRUCTURES WILL NOT BE HELD RESPONSIBLE FOR MATERIALS WHICH ARE IMPROPERLY PROTECTED AFTER DELIVERY.

MANUFACTURING STANDARDS.
FABRICATION IS IN ACCORDANCE WITH CAN/CSA-S16.1 AND CAN/CSA-S136, AS APPLICABLE.

MINIMUM FILLET WELD SIZE IS 3/16"

NORSEMAN STRUCTURES IS A CWB CERTIFIED DIVISION 2.1 MANUFACTURER.
ALL WELDS ARE COMPLETED IN SHOP AS PER CWB INDEPENDENT THIRD PARTY TESTS OUR WELDERS AND PROCEDURES AND AUDITS OUR FACILITIES. THIS CERTIFICATION MEETS WITH AWS D1.1 AND D1.3 CRITERIA.

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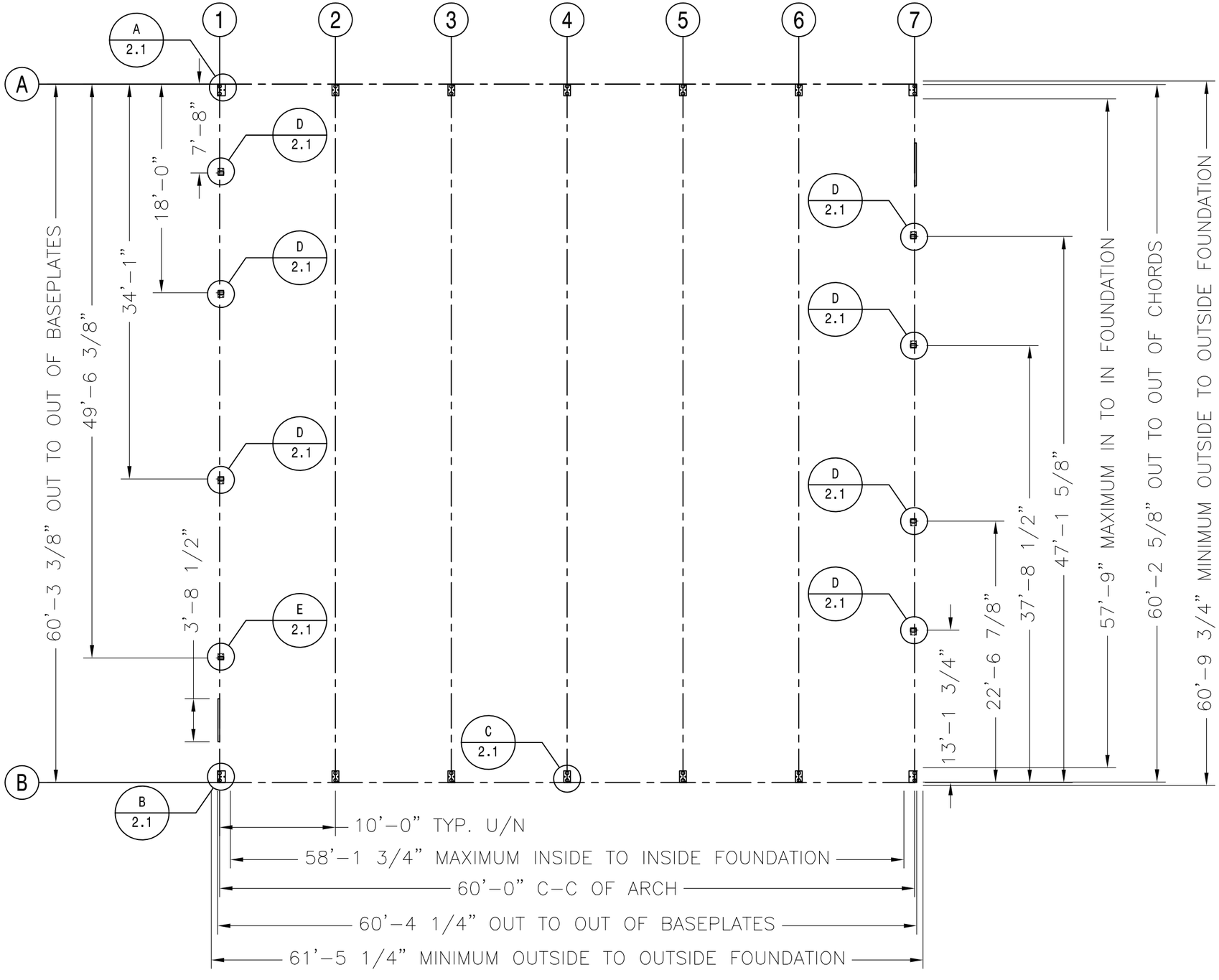
DEALER: NORSEMAN STRUCTURES SASKATOON, SK
CUSTOMER: DRAGADOS RICHMOND, BC
PROJECT: TEST LAB AFDE-SITE C, BC

DRAWING TITLE: STRUCTURE SPECIFICATIONS

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PROJECT ID: . ORDER ID: 11854 DRAWING: 1.3 REV: 1



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CUSTOMER: DRAGADOS RICHMOND, BC

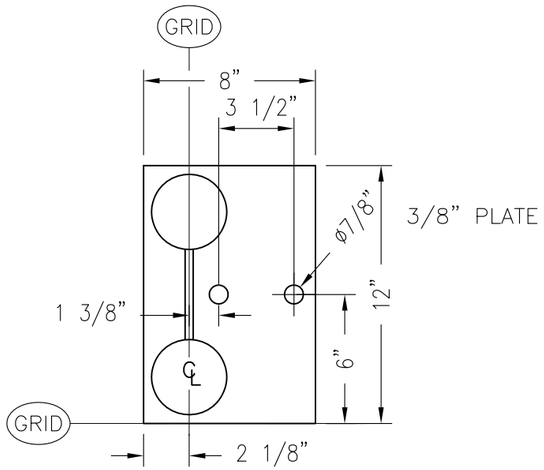
PROJECT: TEST LAB AFDE-SITE C, BC

DRAWING TITLE: BASEPLATE LAYOUT

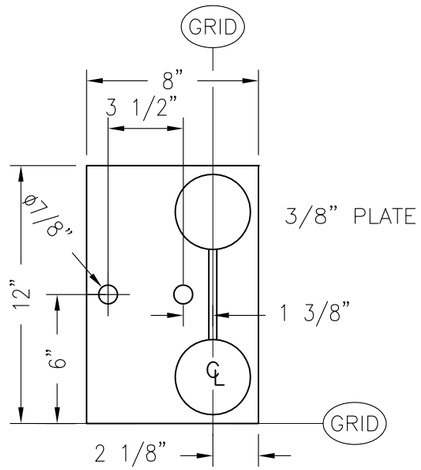
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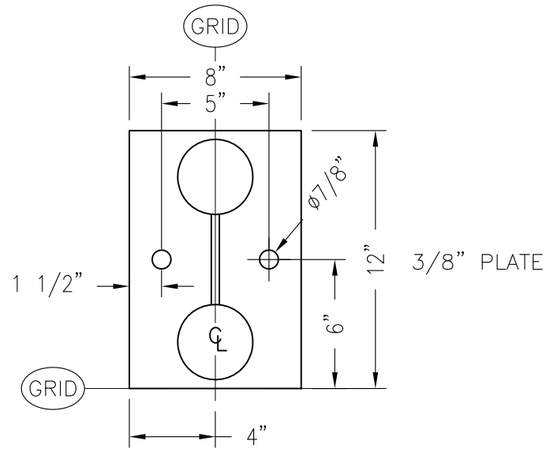
PROJECT ID: . | ORDER ID: 11854 | DRAWING: 2.0 | REV: 1



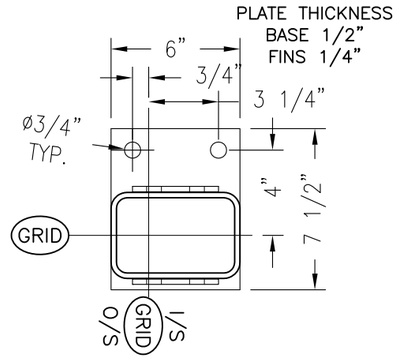
A / 2.1 **60' LEFT END TRUSS BASEPLATE DETAIL**



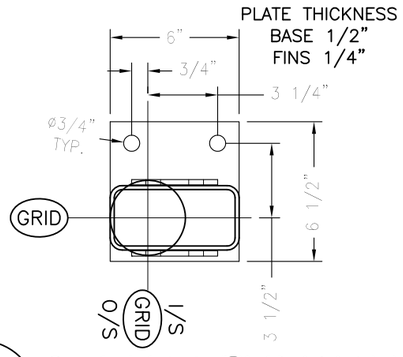
B / 2.1 **60' RIGHT END TRUSS BASEPLATE DETAIL**



C / 2.1 **60' COMMON TRUSS BASEPLATE DETAIL**



D / 2.1 **4x6 HSS ENDWALL BASEPLATE DETAIL**



E / 2.1 **3x6 HSS ENDWALL BASEPLATE DETAIL**

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DRAWING TITLE: BASEPLATE LAYOUT DETAILS

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DEALER: NORSEMAN STRUCTURES SASKATOON, SK
CUSTOMER: DRAGADOS RICHMOND, BC
PROJECT: TEST LAB AFDE–SITE C, BC

PROJECT ID: . | ORDER ID: 11854 | DRAWING: 2.1 | REV: 1

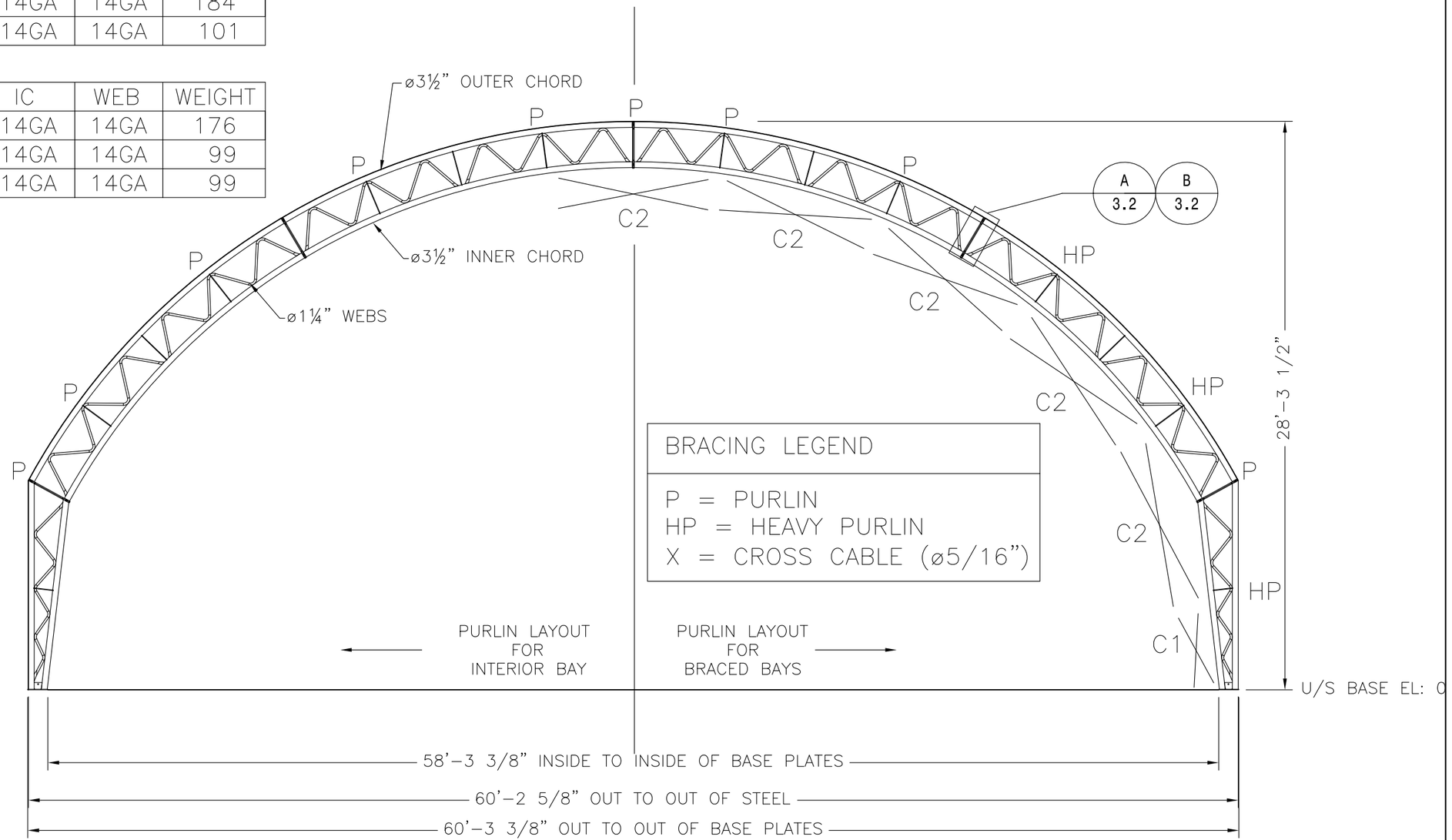
INTERIOR ARCH

ITEM#	QTY	OC	IC	WEB	WEIGHT
D30003042	4	14GA	14GA	14GA	184
D30003047	2	14GA	14GA	14GA	101

END ARCH

ITEM#	QTY	OC	IC	WEB	WEIGHT
D30003043	4	14GA	14GA	14GA	176
D30003048	1	14GA	14GA	14GA	99
D30003049	1	14GA	14GA	14GA	99

APPROX. WEIGHT
OF TRUSS ARCH
W/ BOLTS = 1100LB



D60 c/w 10' Leg	5' BAY Item #	6' BAY Item #	7' BAY Item #	8' BAY Item #	9' BAY Item #	10' BAY Item #	11' BAY Item #	12' BAY Item #	13' BAY Item #	14' BAY Item #	15' BAY Item #	16' BAY Item #
C1	866081-9	866087-9	866097-9	866107-9	866117-9	866128-9	866139-9	866150-9	866162-9	866173-9	866184-9	866196-9
C2	866122-9	866128-9	866135-9	866143-9	866151-9	866159-9	866169-9	866178-9	866188-9	866198-9	866208-9	866218-9

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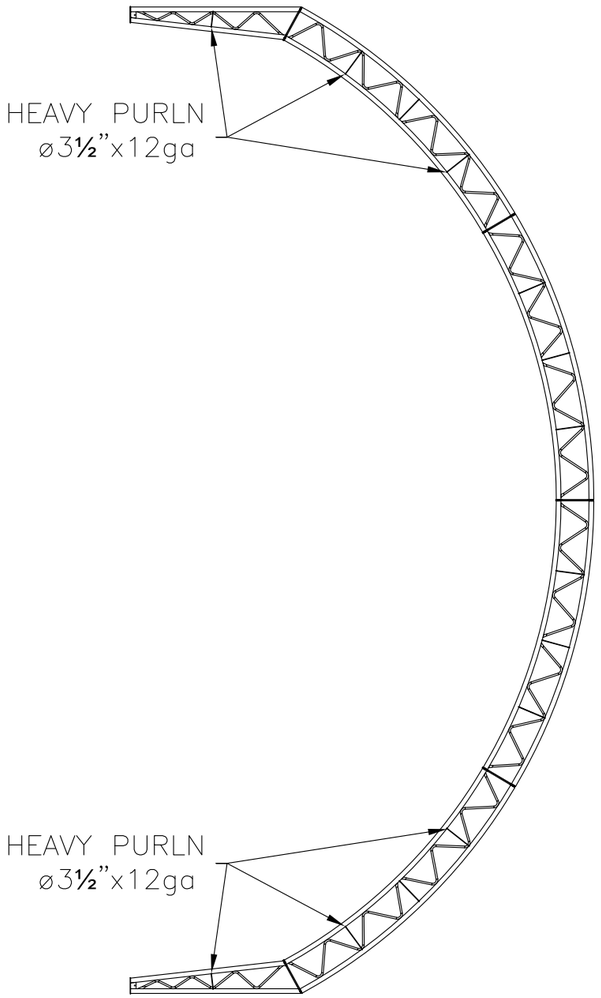
DEALER: NORSEMAN STRUCTURES SASKATOON, SK
CUSTOMER: DRAGADOS RICHMOND, BC
PROJECT: TEST LAB AFDE-SITE C, BC

DRAWING TITLE: BUILDING PROFILE

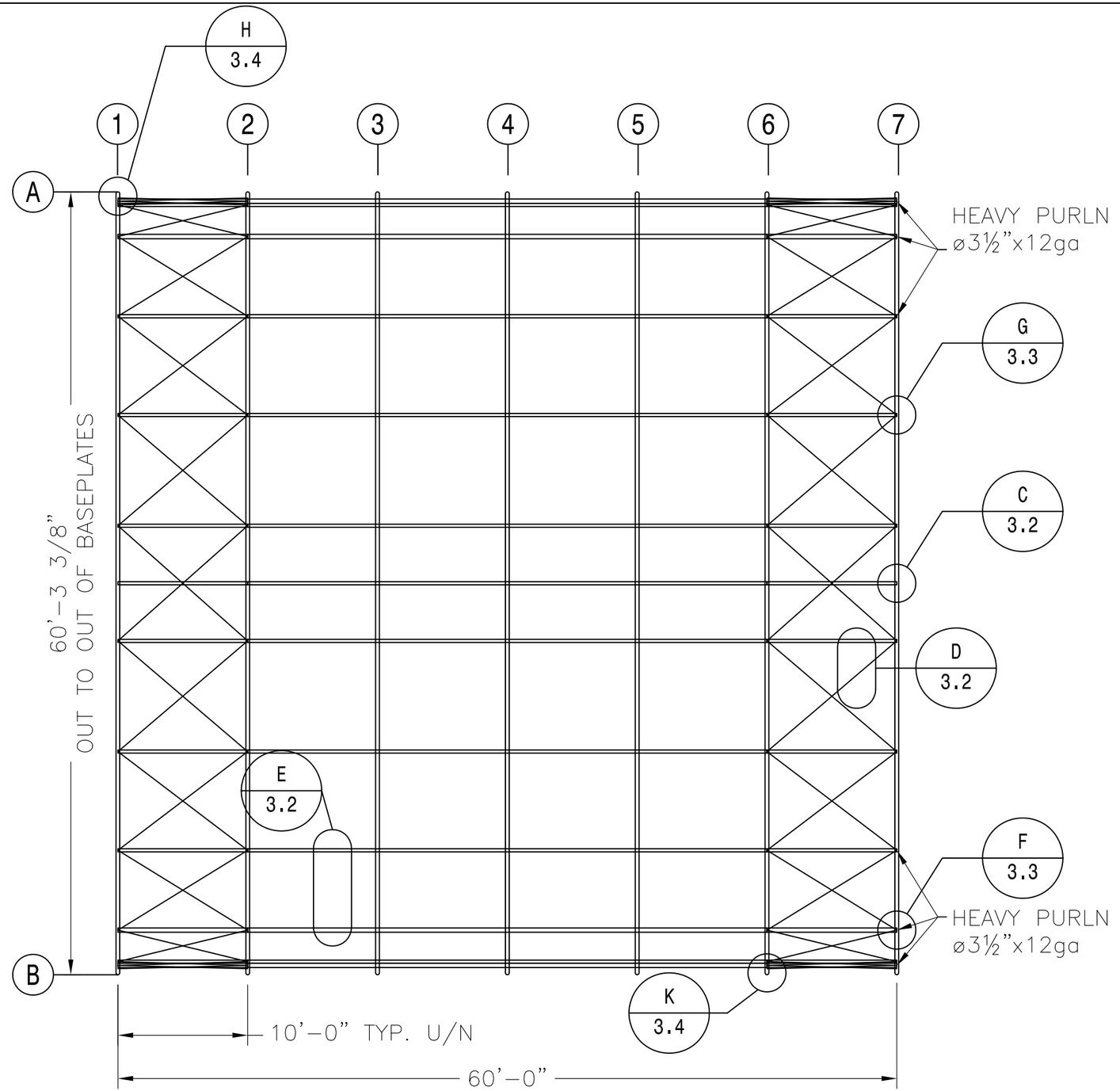
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ALL PURLN ø2 7/8"x14ga UNLESS NOTED



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DRAWING TITLE:
BRACING LAYOUT

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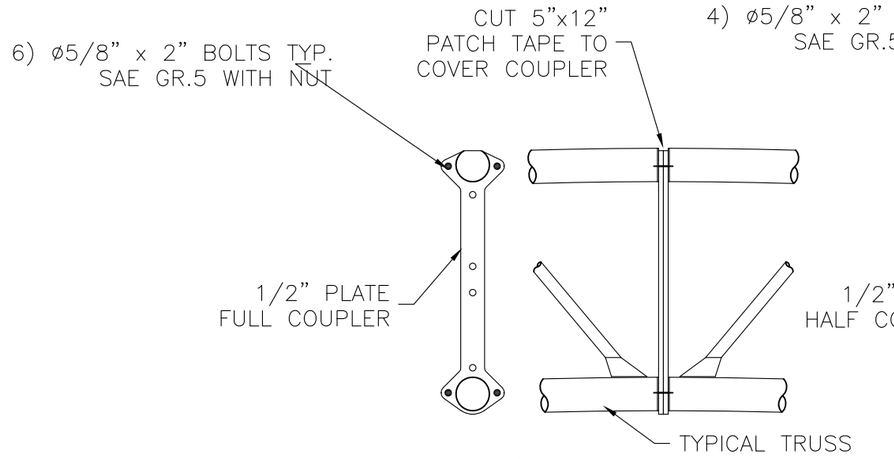
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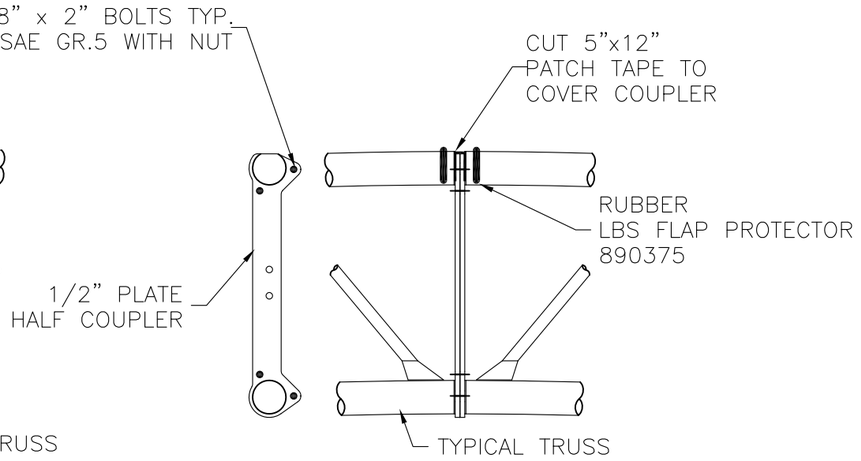
CUSTOMER: DRAGADOS RICHMOND, BC

PROJECT: TEST LAB AFDE–SITE C, BC

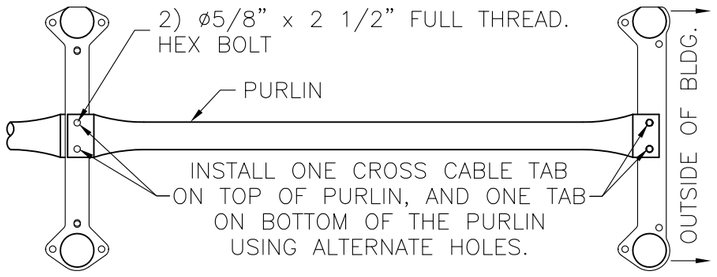
PROJECT ID: . | ORDER ID: 11854 | DRAWING: 3.1 | REV: 1



A 3.2 **COMMON COUPLER CONNECTION DETAIL**



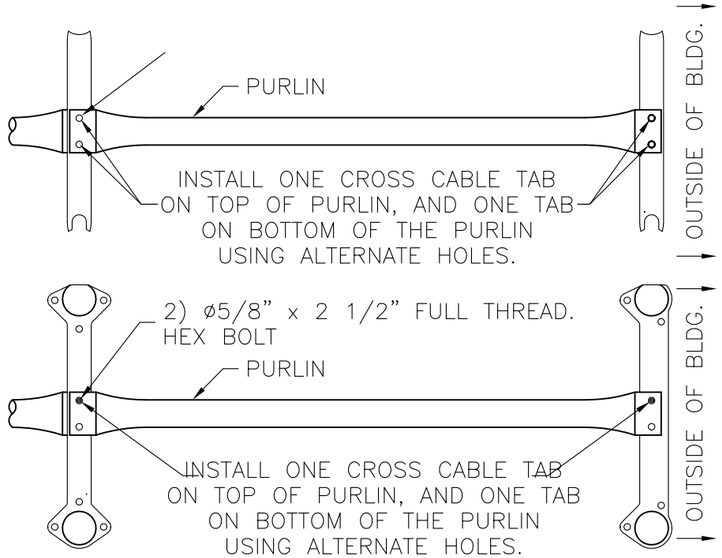
B 3.2 **END COUPLER CONNECTION DETAIL**



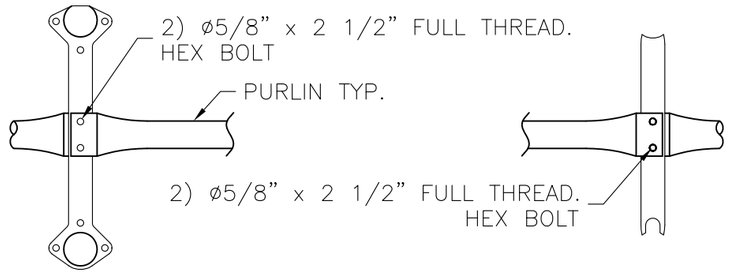
E 3.2 **RIDGE PURLIN CONNECTION**

TIP FOR CABLE BRACED BAYS

INSTALL FIRST BAY PURLINS ON TOP OF COUPLER/KINGPIN
WITH ONE TAB FACING UP AND ONE FACING DOWN
INSTALL SECOND BAY PURLIN ON BOTTOM OF COUPLER/KINGPIN
USING ONLY 1 BOLT AND ONE TAB FACING DOWN
INSTALL THIRD BAY PURLIN ON TOP OF COUPLER/KINGPIN
USING ONLY 1 BOLT AND ONE TAB FACING UP



F 3.2 **PURLIN CONNECTION AT BRACED BAY**



G 3.2 **PURLIN CONNECTION AT UNBRACED BAY**

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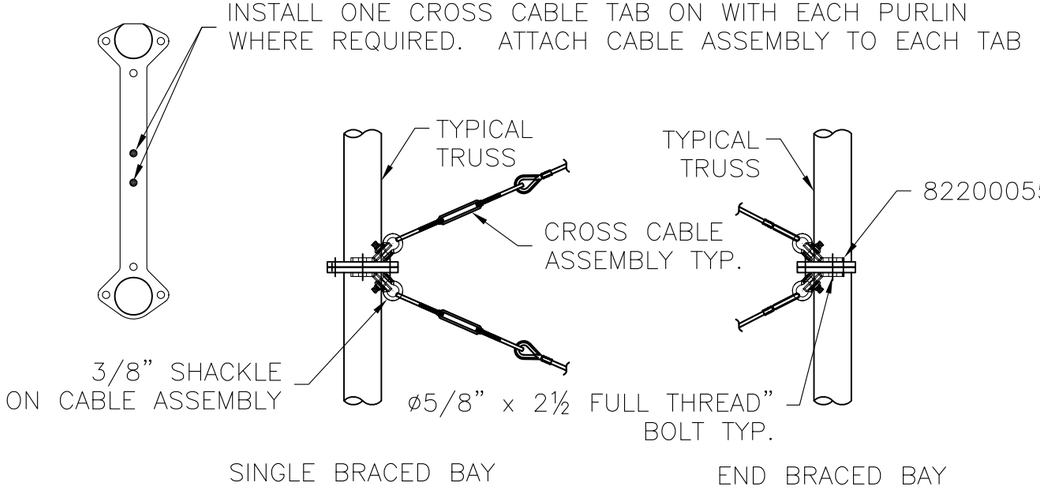
DEALER:	CUSTOMER:	PROJECT:
NORSEMAN STRUCTURES SASKATOON, SK	DRAGADOS RICHMOND, BC	TEST LAB AFDE-SITE C, BC

DRAWING TITLE: STANDARD DETAILS 1

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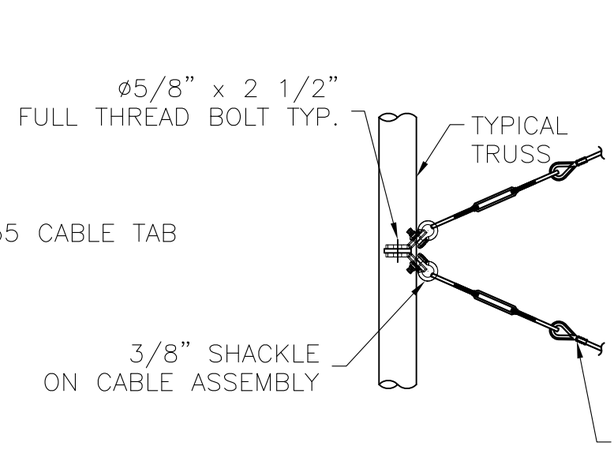


SINGLE BRACED BAY

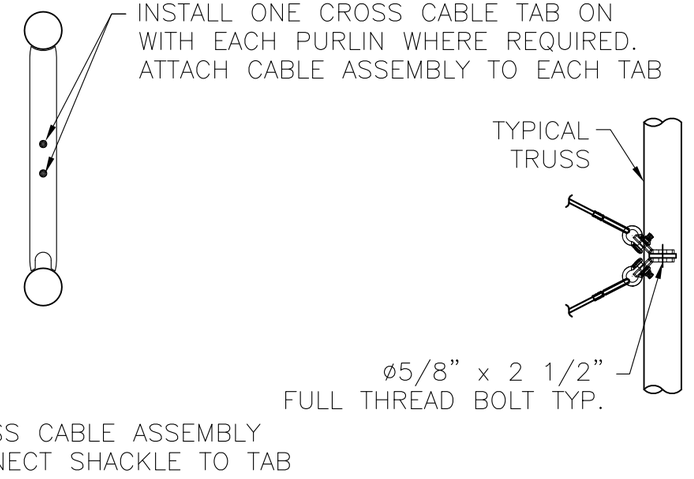
END BRACED BAY

NOTE:
–INSTALL ALL TURNBUCKLES AT ONE END FOR EASE OF INSTALLATION.
–PURLINS REMOVED FOR CLARITY.

F / 3.3 **CROSS CABLE AT COUPLER CONNECTION**



SINGLE BRACED BAY



END BRACED BAY

NOTE:
–INSTALL ALL TURNBUCKLES AT ONE END FOR EASE OF INSTALLATION.
–PURLINS REMOVED FOR CLARITY.

G / 3.3 **CROSS CABLE AT MID TRUSS CONNECTION**

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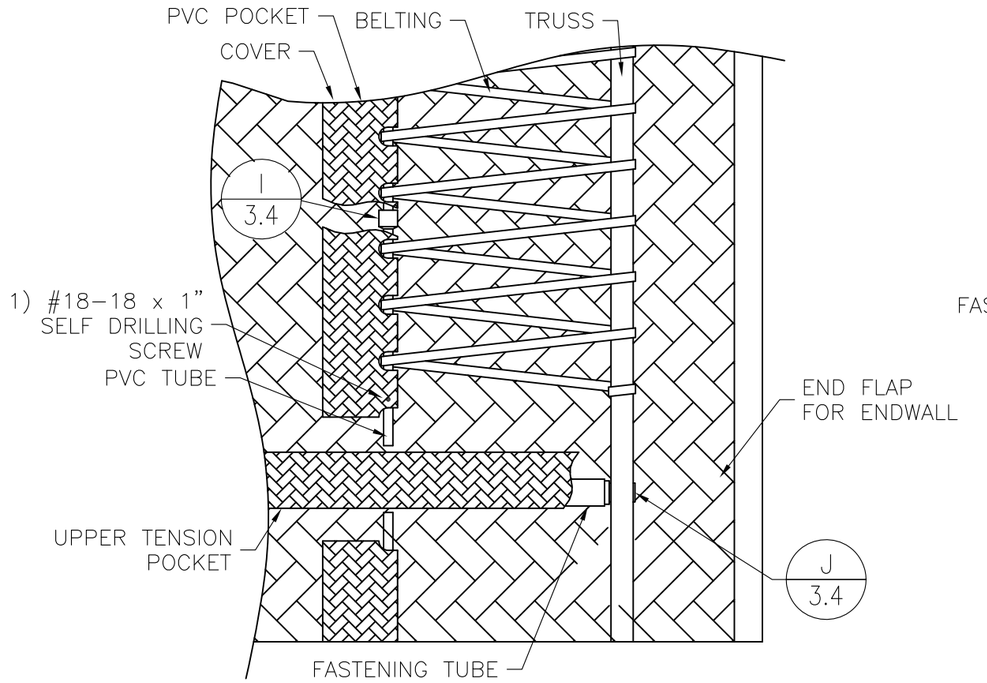
PROJECT: TEST LAB AFDE–SITE C, BC

DRAWING TITLE: STANDARD DETAILS 2

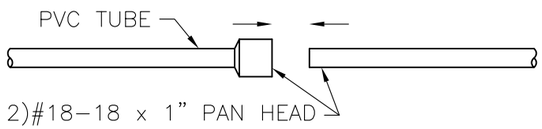
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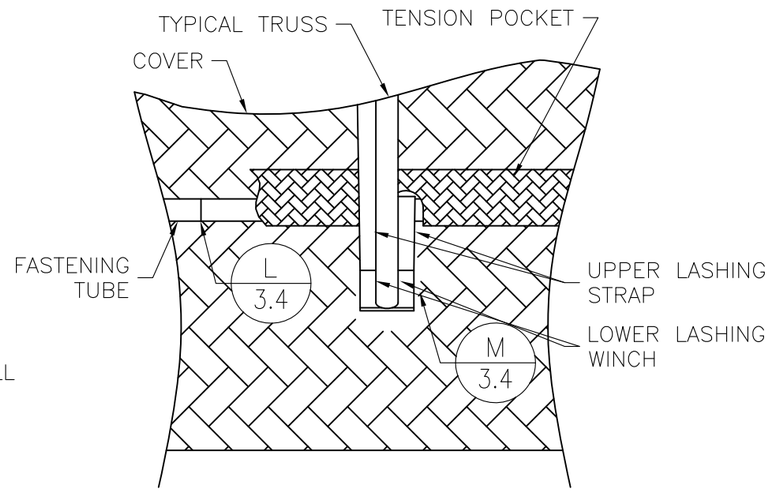
PROJECT ID: . | ORDER ID: 11854 | DRAWING: 3.3 | REV: 1



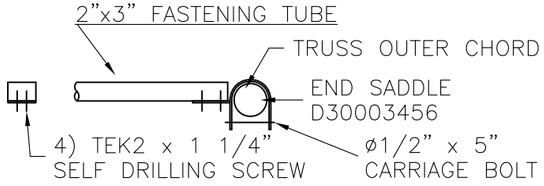
H 3.4 **PVC TUBE CONNECTION TO BUILDING**



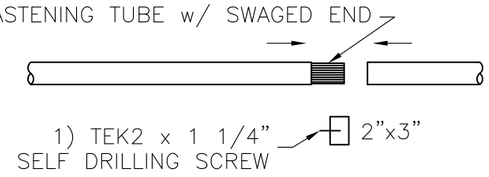
I 3.4 **PVC TUBE CONNECTION**



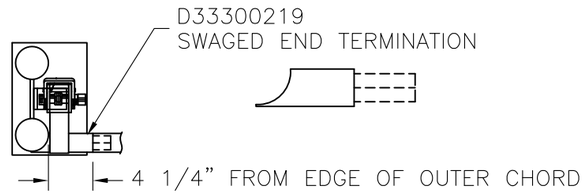
K 3.4 **FASTENING TUBE CONNECTION TO BUILDING**



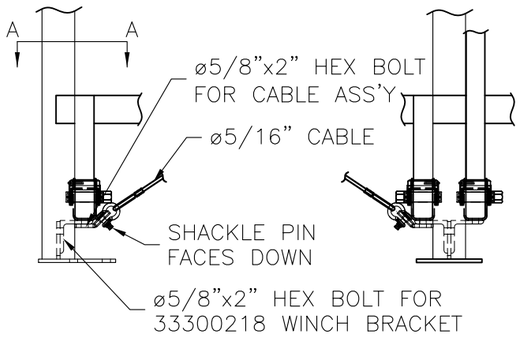
J 3.4 **UPPER FASTENING TUBE END SADDLE BRACKET**



L 3.4 **FASTENING TUBE CONNECTION**



SECTION A–A



M 3.4 **WINCH BRACKET CONNECTION**

Part no	Material
33300218	3½" X 3½" X 3/8" ANGLE
D30003456	3/8" X 2" FB

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DRAWING TITLE: STANDARD DETAILS 3

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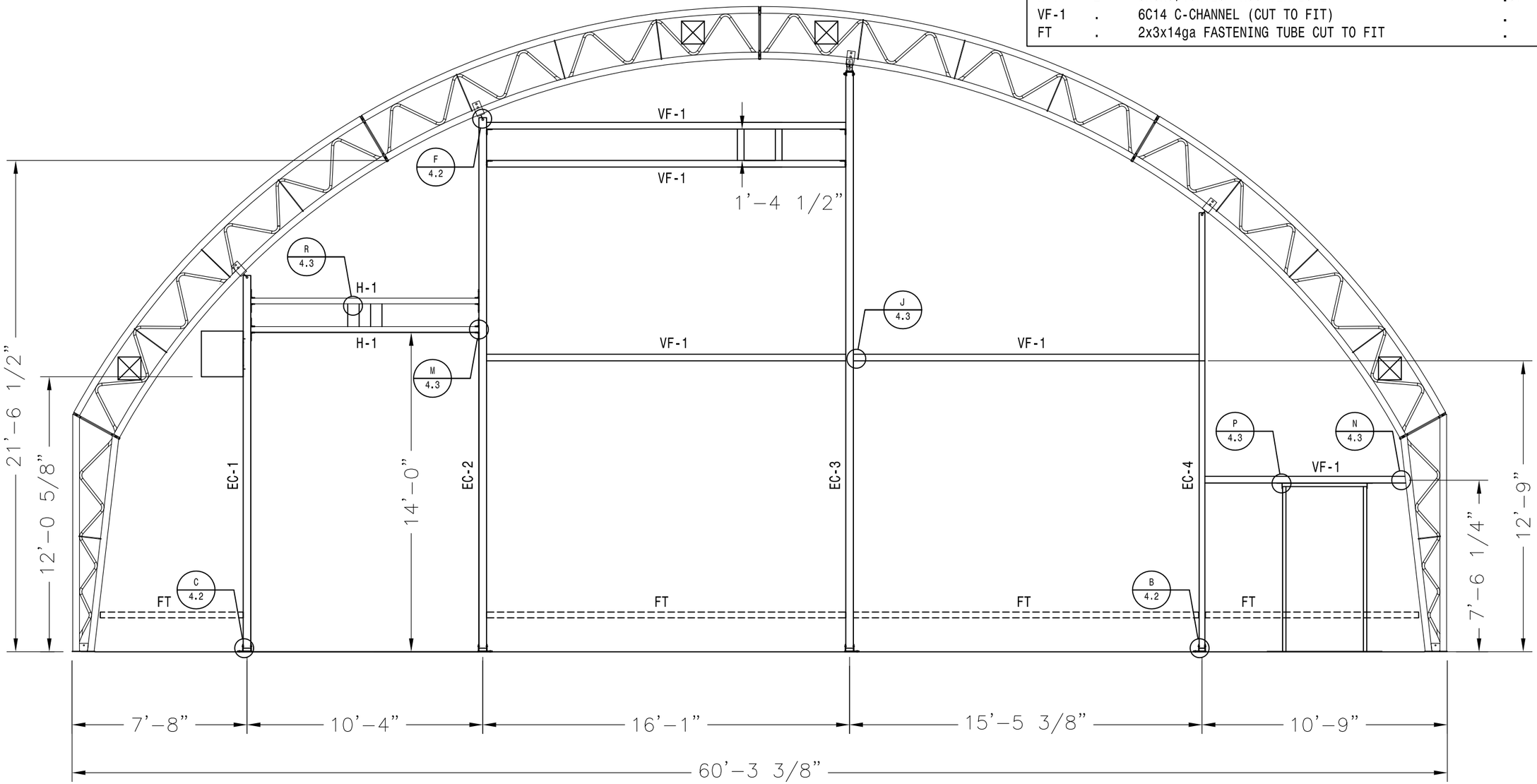
DEALER: NORSEMAN STRUCTURES SASKATOON, SK

CUSTOMER: DRAGADOS RICHMOND, BC

PROJECT: TEST LAB AFDE–SITE C, BC

PROJECT ID: . | ORDER ID: 11854 | DRAWING: 3.4 | REV: 1

Item	Qty	Description	Weight
EC-1	1	4x6x1/4x196" HSS VERTICAL (699923)	218
EC-2	1	4x6x1/4x279" HSS VERTICAL (699924)	285
EC-3	1	4x8x1/4x303" HSS VERTICAL	480
EC-4	1	3x6x3/16x229" HSS VERTICAL	205
H-1	2	3x6x3/16x120" HSS VERTICAL	107
VF-1	.	6C14 C-CHANNEL (CUT TO FIT)	.
FT	.	2x3x14ga FASTENING TUBE CUT TO FIT	.



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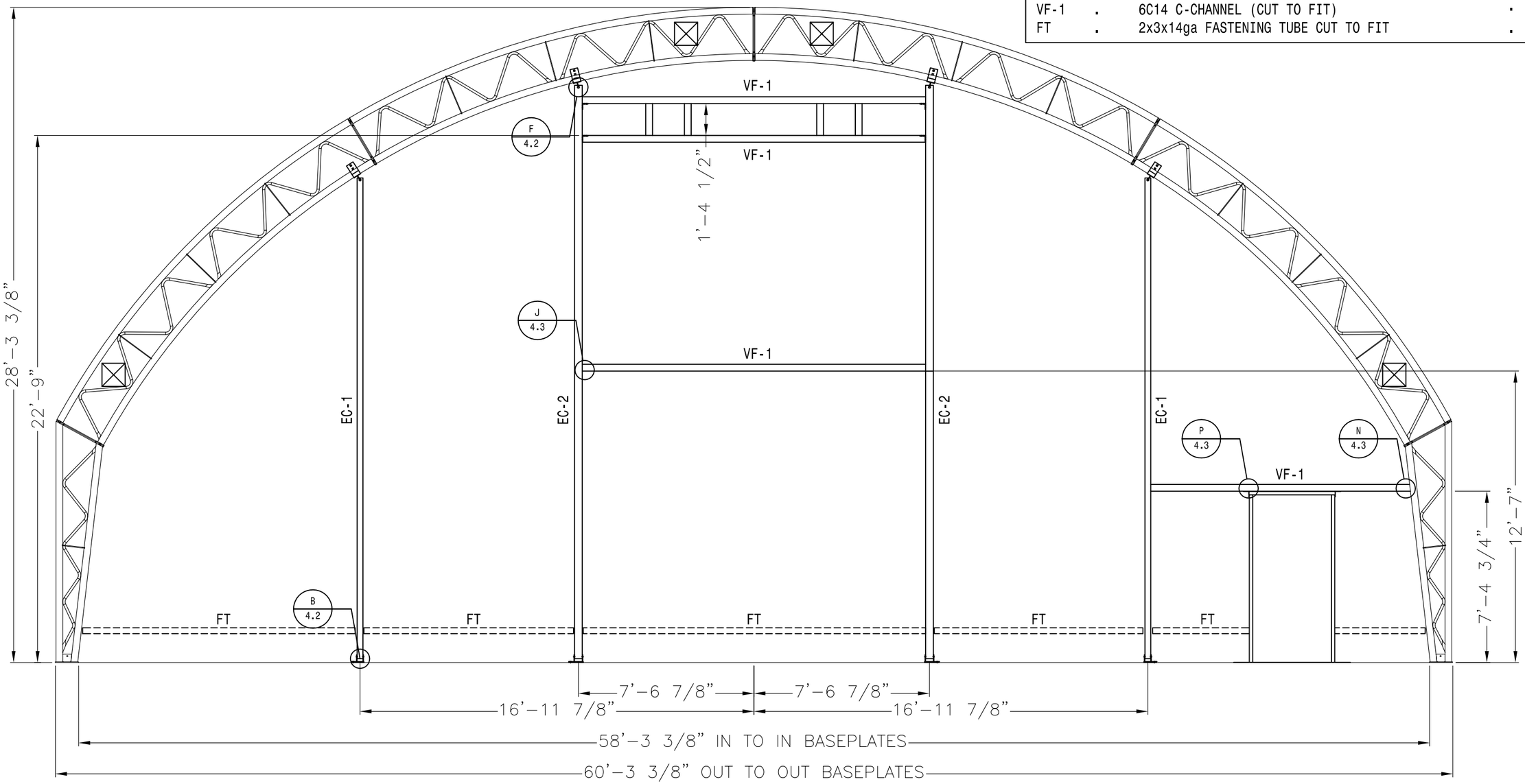
DRAWING TITLE:
ENDWALL 1

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1	MD: RELEASED	31 MAY 18
1	MD: RELEASED	11 JUN 17

PROJECT ID: .	ORDER ID: 11854	DRAWING: 4.0	REV: 2

Item	Qty	Description	Weight
EC-1	2	3x6x3/16x249" HSS VERTICAL	223
EC-2	2	4x6x1/4x297" HSS VERTICAL	387
VF-1	.	6C14 C-CHANNEL (CUT TO FIT)	.
FT	.	2x3x14ga FASTENING TUBE CUT TO FIT	.



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NORSEMAN STRUCTURES SASKATOON, SK	DRAGADOS RICHMOND, BC	TEST LAB AFDE-SITE C, BC

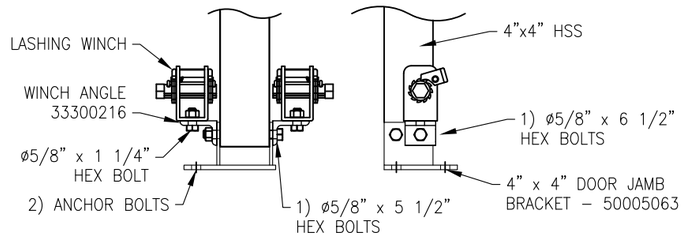
DRAWING TITLE:
ENDWALL 2

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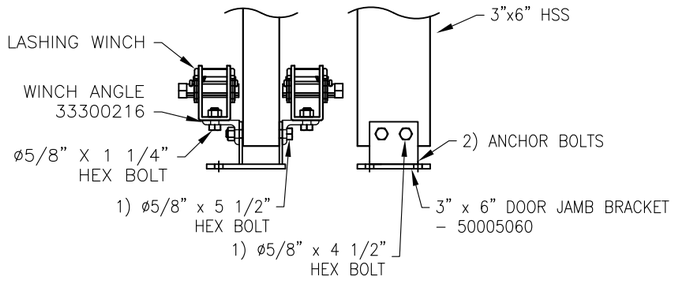
DWG REV	REVISED BY: DESCRIPTION	DATE
1	MD: RELEASED	31 MAY 18
1	MD: RELEASED	11 JUN 17

PROJECT ID: .	ORDER ID: 11854	DRAWING: 4.1	REV: 2

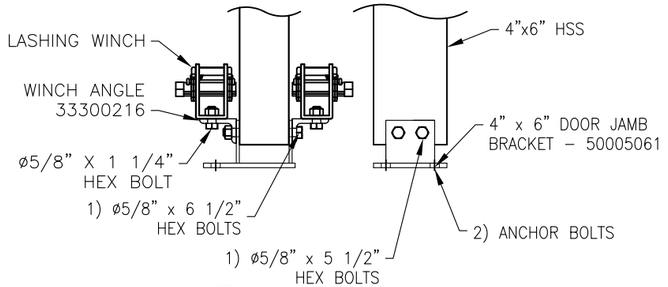
ADD WASHER ON BOLT SIDE WHEN USING ONLY ONE WINCH ANGLE



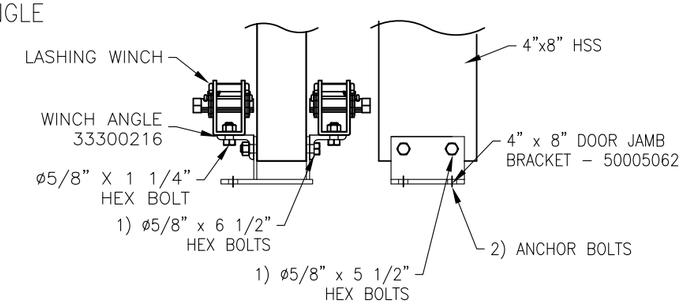
A 4.2 **4"x4" HSS WINDPOST BASE CONNECTION**



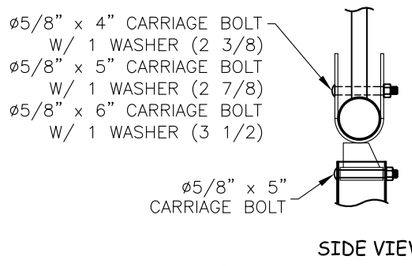
B 4.2 **3"x6" HSS WINDPOST/JAMB BASE CONNECTION**



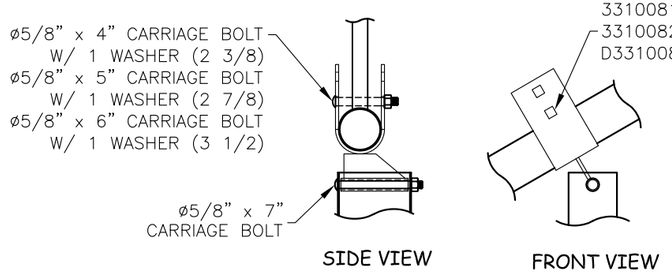
C 4.2 **4"x6" HSS WINDPOST BASE CONNECTION**



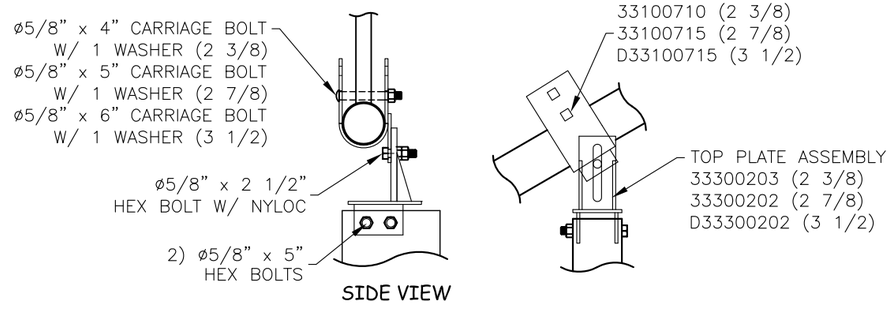
D 4.2 **4"x8" HSS WINDPOST BASE CONNECTION**



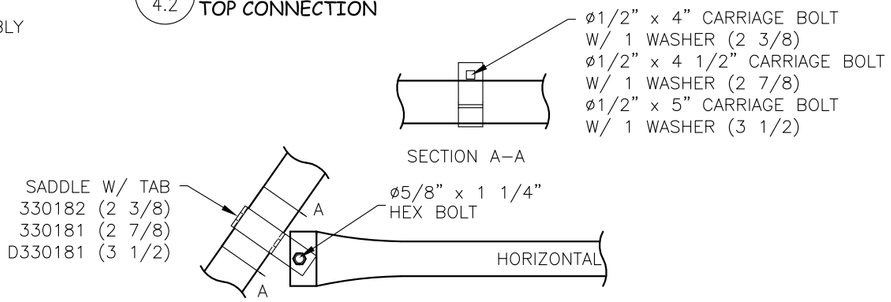
E 4.2 **4"x4" HSS WINDPOST TOP CONNECTION**



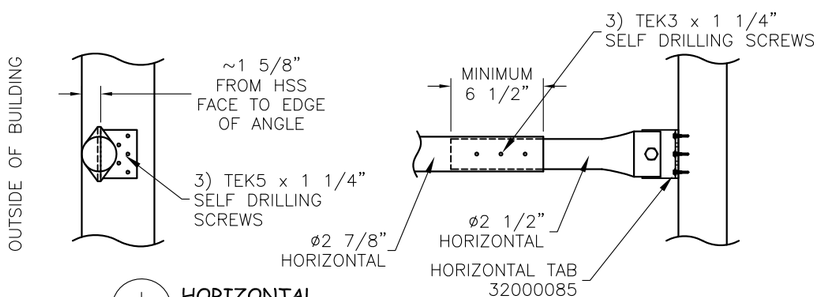
F 4.2 **3"x6"/4x6" HSS WINDPOST TOP CONNECTION**



G 4.2 **4"x8" HSS WINDPOST TOP CONNECTION**



H 4.2 **HORIZONTAL CONNECTION TO TRUSS**



I 4.2 **HORIZONTAL CONNECTIONS**

Part no	Material	Part no	Material	Part no	Material
33300216	L 2" X 3" X 3/8"	33100810	1/4" X 4" FB	33100710	1/4" X 4" FB
50005063	1/2" X 6" FB // 1/4" X 3 1/2" FB	33100811	1/4" X 4" FB	33100715	1/4" X 4" FB
50005060	1/2" X 6" FB // 1/4" X 3 1/2" FB	D33100811	1/4" X 4" FB	D33100715	1/4" X 4" FB
50005061	1/2" X 6" FB // 1/4" X 3 1/2" FB	33100815	1/4" X 4" FB	330182	3/16" X 2" FB
50005062	1/2" X 6" FB // 1/4" X 3 1/2" FB	33100820	1/4" X 4" FB	330181	3/16" X 2" FB
32000085	L 3" X 3" X 1/4"	D33100820	1/4" X 4" FB	D330181	1/4" X 2" FB

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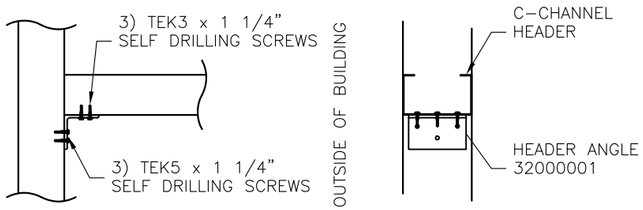
PROJECT: TEST LAB AFDE–SITE C, BC

DRAWING TITLE: ENDWALL DETAILS 1

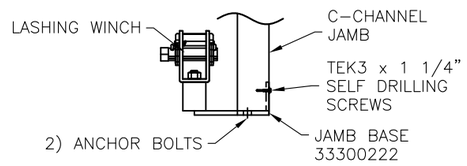
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PROJECT ID: . | ORDER ID: 11854 | DRAWING: 4.2 | REV: 1

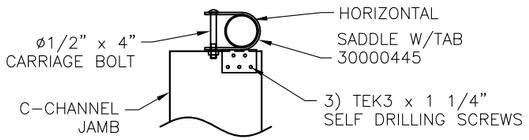


J 4.3 **C-CHANNEL HEADER CONNECTION TO HSS WINDPOST/JAMB**



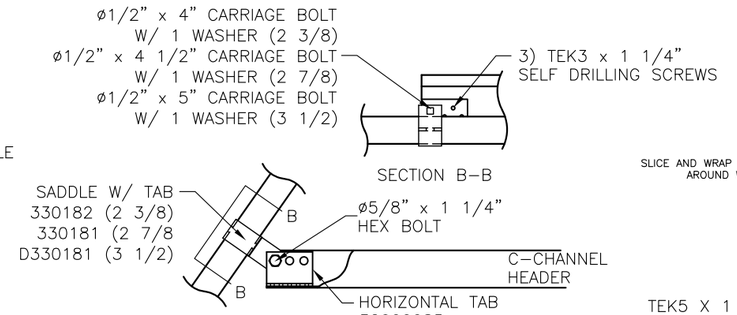
SEE BD-1 FOR BASEPLATE DETAIL

K 4.3 **C-CHANNEL JAMB BASE CONNECTION**

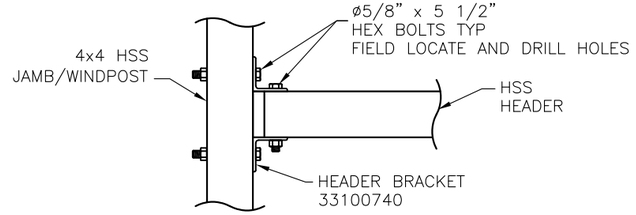


L 4.3 **C-CHANNEL JAMB CONNECTION TO HORIZONTAL**

M 4.3 **HSS HEADER CONNECTION TO JAMB**

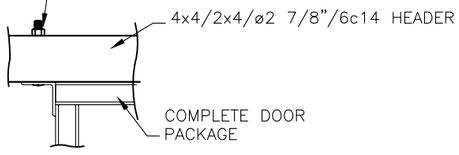


N 4.3 **C-CHANNEL CONNECTION TO TRUSS**

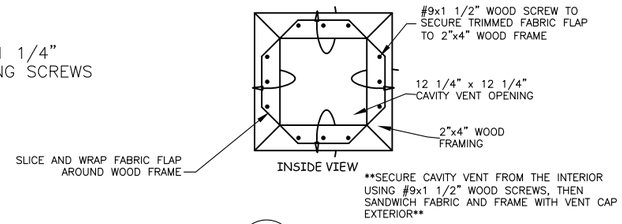


O 4.3 **4x4 HSS HEADER CONNECTION TO JAMB**

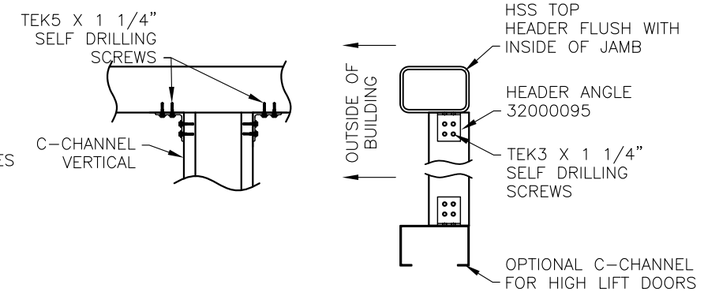
4x4) ø1/2" x 5" HEX BOLT WITH NYLOC NUT
2x4) ø1/2" x 3" HEX BOLT WITH NYLOC NUT
ø2 7/8) ø1/2" x 4" HEX BOLT WITH NYLOC NUT
6C14) ø1/2"x2" HEX BOLT



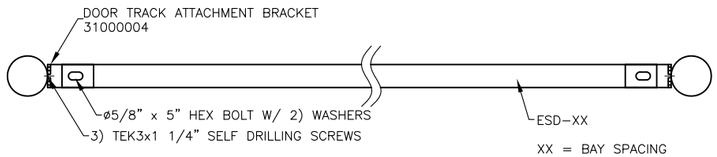
P 4.3 **COMPLETE DOOR PACKAGE TO 6c14/2X4/4X4 OR SLEEVE**



Q 4.3 **CAVITY VENT FRAMING**



R 4.3 **C-CHANNEL VERTICAL CONNECTION HSS DOOR HEADER SPRING PAD**



S 4.3 **ø3 1/2" ARCH BUILDING DOOR TRACK SUPPORT**

Part no	Material	Part no	Material
32000001	L 3" X 3" X 1/4"	32000085	L 3" X 3" X 1/4"
33300222	3/8" X 4" FB // 1/4" X 2 1/2" FB	33100740	L 3" X 3" X 1/4"
30000445	3/16" X 2" FB	30000465	1/4" X 6" FB
330182	3/16" X 2" FB	30000455	1/4" X 4" FB
330181	3/16" X 2" FB	D330181	1/4" X 2" FB

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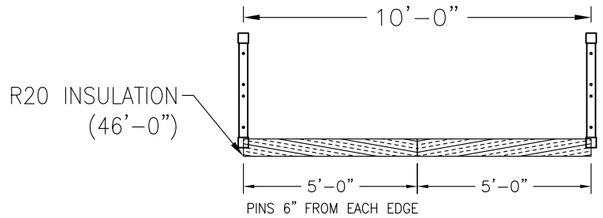
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DRAWING TITLE: ENDWALL DETAILS 2

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1	MD: RELEASED	11 JUN 17

PROJECT ID: . ORDER ID: 11854 DRAWING: 4.3 REV: 2



SECTION A-A

B / 7.0 TYPICAL BANDING HANGING POINT

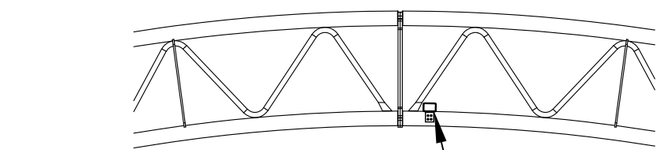
2 PINS PER INSULATION AT EACH BANDING LOCATION

EYE BOLTS REQUIRED FOR INSULATION

*3/4" BANDING SHOULD BE ABLE TO SLIP
INTO EYE BOLT THROUGH SMALL GAP AT TOP
OF EYE OR ELSE WILL REQUIRED TO BE THREADED
THROUGH THE EYES

**EYE BOLTS REQUIRED AT EACH BANDING POINT

C / 7.1 TYPICAL END BANDING HANGING POINT



A / 7.0 PEAK CONNECTION TERMINATION

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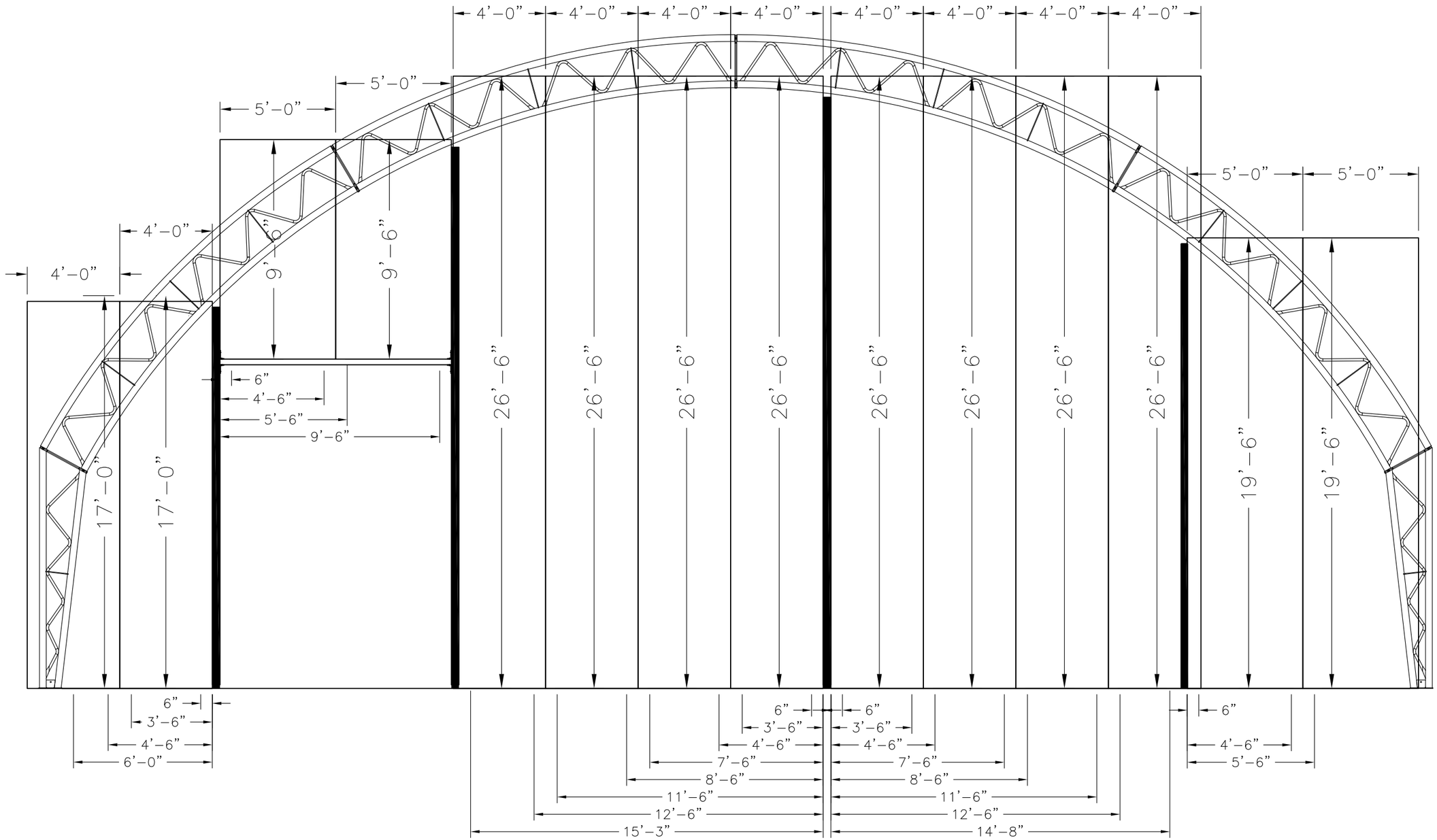
DRAWING TITLE: COVER INSULATION

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1	MD: RELEASED	31 MAY 18
2	DM: REVISED DETAIL C	18 JUN 18

PROJECT ID: . | ORDER ID: 11854 | DRAWING: 7.0 | REV: 2

~2’ OF TERMINATION STRIP SENT FOR EACH INSULATION PIECE TO SECURE TO CHORD



DIMENSIONS FOR INSULHOLD BANDING LOCATIONS

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NORSEMAN STRUCTURES SASKATOON, SK	DRAGADOS RICHMOND, BC	TEST LAB AFDE–SITE C, BC

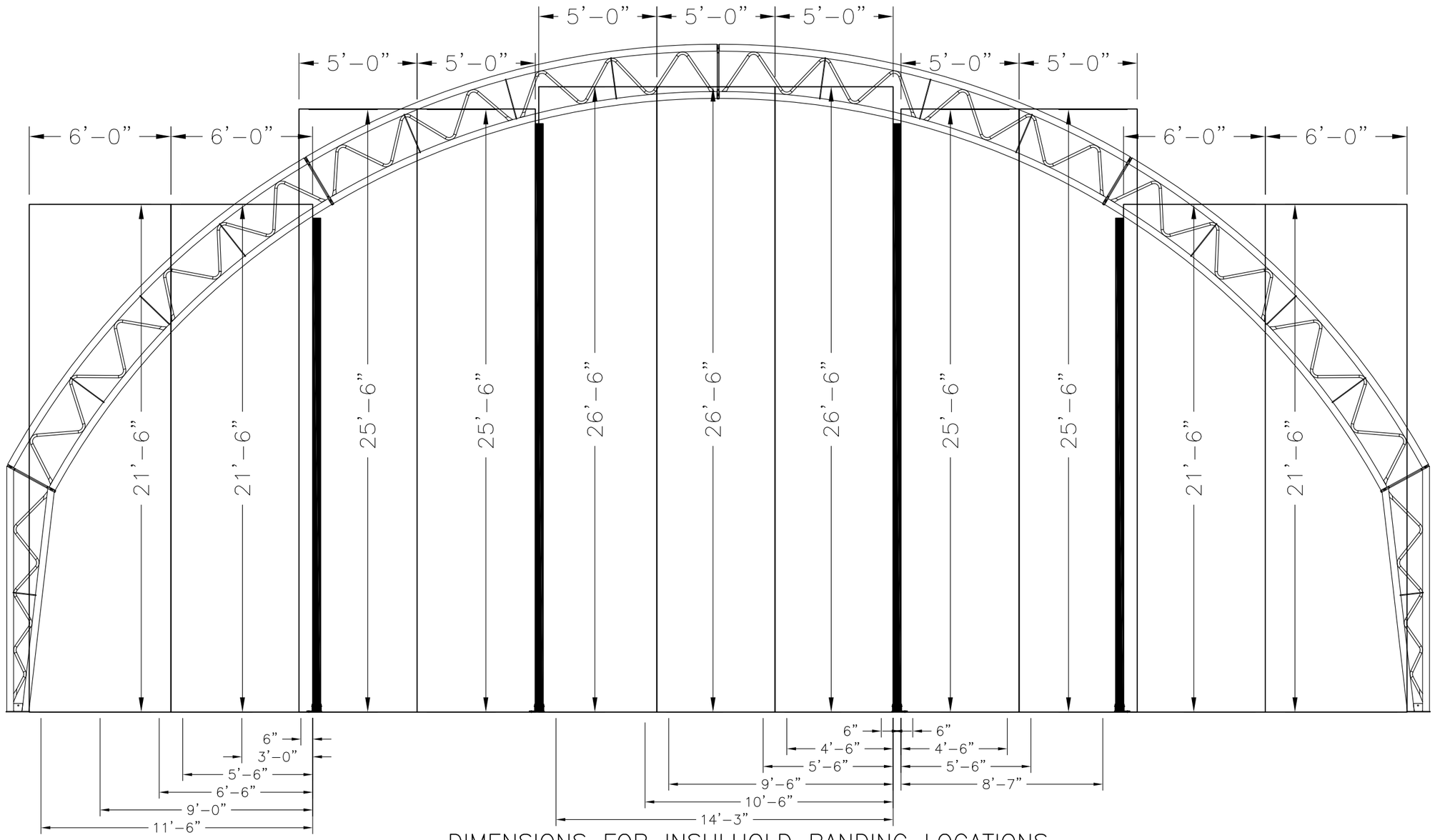
DRAWING TITLE: ENDWALL 1 INSULATION

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DRAWING TITLE: ENDWALL 2 INSULATION

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PROJECT ID: . | ORDER ID: 11854 | DRAWING: 7.2 | REV: 1