

WIND LOAD	SNOW LOAD	USE AND OCCUPANCY	STRUCTURE TYPE	DEALERS NAME	OWNERS NAME		PROV./STATE	SITE LOCATION	LAT / LONG		
100 MPH "C"	60 PSF	COMMERCIAL / LOW HAZARD	42'X100' CC, 10' FRAME SPACING, 6' CONCRETE WALL (DESIGNED & SUPPLIED BY OTHERS)	GREG LUSSIER	GREG WILLIAMS	PROJECT DESCRIPTION	MAINE	910 RIVERSIDE ST., PORTLAND, 04103	43'42'29.25"N, 70'19'13.44"W	SITE LOCATION	

N T S SHEET 1 OF		BITED	PROHIBITED		ISSUE	REVISION / ISSUE
		WITHOUT THE WRITTEN PERMISSION OFCALHOUN SUPERSTRUCTURE IS		DATE	1	DESCRIPTION
SIZE DWG. NO.	ROPERTY OF IRE. ANY	DRAWING IS THE SOLE PROPERTY OF CALHOUN SUPERSTRUCTURE. ANY	_	10/29/10	[	NEER APPROVAL
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42' CC SERIES	10/29/10	ENG. APPR. GR	ENG.			
TITLE SHEET	10/29/10	KED DPD	CHECKED			
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	DATE	NAME				
ALHOU	tructure.com	www.calhounsuperstructure.com	WWW W			
	3994	NOH 2NO 800-265-3994	_			
	Rd ∯10 Canada	3702 Bruce Rd #10 Tara, Ontario, Canada				
	ructure Ltd.	Calhoun Superstructure Ltd.	Call			
ELEVATION C-C	EI	8 OF 8		S4.4	rS.	
ELEVATION B-B		7 OF 8		S4.3	š	
ELEVATION A-A		6 OF 8		S4.2	δ	
FRAMING PLAN		5 OF 8		S4.1	ų	
DETAILS	DI.	4 OF 8		S3.1	Ş	
FOUNDATION PLAN	FC	3 OF 8		S2.1	ιχ	
GENERAL STRUCTURAL NOTES	G	2 OF 8		GS1.1	SS	
TITLE SHEET	ı,	1 OF 8		TS1	ļ	
TITLE		SHEET No.		DWG No.	DWG	
INDEX	DRAWING INDEX	D				

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SCALE: N T S SHEET 1 OF 8		1	PROHIBITED
TS1	OR AS A WHOLE ERMISSION	IN PART	CALHOUN SUPERSTRUCTURE, ANY REPRODUCTION IN PART OR AS A WITHOUT THE WRITTEN PERMISSION DECATHOR IS
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42' CC SERIES	10/29/10	G R	NG. APPR. GR
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CALHOUN	www.calhounsuperstructure.com	800-265-3994 hounsuperstruct	www.calhor
	Tara, Ontario, Canada NOH 2NO	Ontario, C	Tara,
	Calhoun Superstructure Ltd. 3702 Bruce Rd #10	un Superstructur 3702 Bruce Rd #10	Calhoun 9

## GENERAL

These drawings have been prepared by the engineer of record (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

Professional standards of care normally exercised under similar circumstances reputable engineers in this area or similar localities have been used or exceeded drawings. by in these

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.

concrete pre-cast elements, etc) is specifically noted on these drawings. Design of prefabricated structural products (such as wood trusses, steel concrete pre-cast elements, etc) is not included and must be provided by joists, others unless

Specification references (such as ASTM, ACI, AWS, CWB version where noted on these drawings. etc) shall be the latest accepted

7. Any structural elements designed by others and attached to structure shall be approved by the EOR prior to construction. any portion of the main

An experienced licensed contractor with a working knowledge of applicable codes and industry accepted standard practices shall perform the work depicted in these drawings.

7. 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.

8. The contractor shall verify all dimensions, elevations and conditions on these drawings with architectural and all other disciplines drawings prior to start of construction. Notify architect or EQR in writing before the start on 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.

9. 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.

10. 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.

Construction materials shall be spread out uniformly on structural systems such that design live loads are not exceeded.

12. Openings, pockets, etc. larger than 6 inches 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 engineer in writing to determine correct deposition.

 Site visits by the EOR are a resource special inspections. for the contractor and shall not be considered

BASIS FOR DESIGN	_
GOVERNING BUILDING CODE	IBC 2006
ROOF LOADS	
DEAD LOAD	1.25 PSF
COLLATERAL LOAD	0.25 PSF
LIVE LOAD	20 PSF
SNOW LOAD	60 PSF
IMPORTANCE FACTOR	0.80
Ct	1.2
Се	0.9
pf	36.29 PSF
WIND DESIGN	
BASIC WIND SPEED	100 mph
WIND EXPOSURE	С
BASIC PRESSURE	16.07 PSF
IMPORTANCE FACTOR	0.87
ROOF HEIGHT	21'-3.75"
DESIGN ENCLOSURE	ENCLOSED
OCCUPANCY STANDARD	-

# STRUCTURAL STEEL MATERIALS

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

31/-633 (/3-83)	300 (33)	F135# GK 35	ł	ANCHOR BOLLS
E17 CEE (75 OE)	280 (56)	T1664 OD 66		\$10100 DOI 10
400-558 (58-80)	248 (36)	F1554 GR 36	-	
1034 (150)	1	A490 (GRADE 8.1)	-	
827 (120)	-	A354 GR. BD (GRADE 8)		
724-827 (105-120)		A325 TYPE 3 (GRADE 5.2)	-	STRICTIBAL BOLTS
724-827 (60)		A307 GR.A (GRADE 5.2)	-	
	380 (55)	787-05		MECHANICAL TUBING
450-650	350 (50)	500 GRADE C	350 W	HSS SHAPES
414 (60)	240 (35)	A53		PIPES
450-620 (65-80)	300 (44)	A36/44W	300 W	BARS AND PLATES
450 (65)	350 (50)	A992	350 W	ROLLED WIDE FLANGE SECTIONS
450-620 (65-80)	300 (44)	A36/44W	300 W	STANDARD STEEL SHAPES
TENSILE STRENGTH MPa (ksi)	YEILD STRENGTH MPa (ksi)	ASTM DESIGNATION (SAE GRADE)	CSA G40.21 DESIGNATION	SHAPE

2. Structural steel shall be tarricared und structural steel buildings. ons ਰ੍ਹ

## INSTALLATION

3. Welders shall be AWS certified where required by juristictional 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.

4. 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 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.

5. All expansion or epoxy bolts shall have current approved rating (ICC, ES or equivalent) material into which installation occurs. Headed 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.

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6. Grout beneath column bases or bearing plates shall be 5000psi (35MPa) minimum non-shrink flow-able grout or dry-pock. Install grout under bearing plates before framing 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 group or dry pack to be placed beneath plate without voids. grout

All misc. welds not noted, including stiffeners, misc. plates, etc. shall be per AISC manual table J2.4 or in a AWS certified shop.

## GAUGE STEEL FRAMING

1. 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 Standards. All structural members shall be designed in accordance with the American Iron and Steel Institute (AISI) specification for the design of cold—formed steel structural members (latest edition).

Structural drawings show only the primary structural framing elements of the system, and e contractor shall provide all accessories required for the complete and proper installation, as recommended by the manufacturer for the steel members used.

All welding shall be performed by welders experienced in light gauge structural steel framing work. All welds per AWS D1.3

4. Prior to fabrication of framing, the contractor shall submit shop architect or EOR to obtain approval. drawings to the

All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit against abutting members.

Temporary bracing where required, shall be provided until erection is complete.

		COMPO	COMPONENT SCHEDULE		
MARK	DESCRIPTION	CHORDS	WEBS	BOLTS	COMMENTS
CCT	CC SERIES TRUSS COMPONENT	2-3/8"ø X 14 GA 55 KSI	U 1.5"X1.25"X14GA 50 KSI	1/2"ø GR 5	1/2"ø GR 5 ALL STEEL HOT DIP GALVANIZED TO MIN. G90 PER ASTM A123-09

 Fastening of the components shall be with self-drilling screws shall be of sufficient size to insure the strength of the connectic steel shall be touched up with paint. Wire tying of components st s or welding. Screws or welds ion. All welds of galvanized shall not be permitted.

8. Screws shall be self—tapping pan head, hex head, or wafer 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 ½". Screws No. 8 and larger shall have a minimum head size of 5/16".

All welding shall be performed by welders experienced in light framing work. gauge structural steel

## FOUNDATION

1. Foundations were designed per minimum requirements of the current accepted building code as listed in the basis for design. A Geotechnical Engineer should be commissioned to provide a soils report prior to the completion of the structural design for this project. The engineer will not assume any liability beyond the minimum code requirements in the event that a Geotechnical Report is not provided.

Footings and Foundations: Inimum allowable soil bearing pressure: 1500 psf U.N.O

3. Cantilever Post walls:
Active Soil Pressure (eq. fluid weight) = 35 pcf
Possive Soil Pressure (eq. fluid weight) = 250 pcf
Sliding Resistance (friction) = 0.3

Footing excavations shall be clean and free from loose debris, standing material at the time of concrete placement. water, or un-compacted

5. Trenches and excavations under or adjacent to foundations or slabs shall be properly backfilled and compacted. Utility trenching parallel to the foundation shall be located a minimum distance equal to the depth of the trench from the foundation. The trench may approach the foundation at 90 degrees to the structure and may not exceed two and one half feet (0.76m) wide. The trench approach to the foundation my not be located closer than 8 feet (2.44m) from a corner of the structure.

6. All forms shall be properly braced to withstand the placement of fresh concrete.

Do not backfill against foundation walls more than 3 feet (0.914m) in height until after the top of the raced by the completed interior floor systems and all elements have reached their design

# TANDARD ABBREVIATIONS

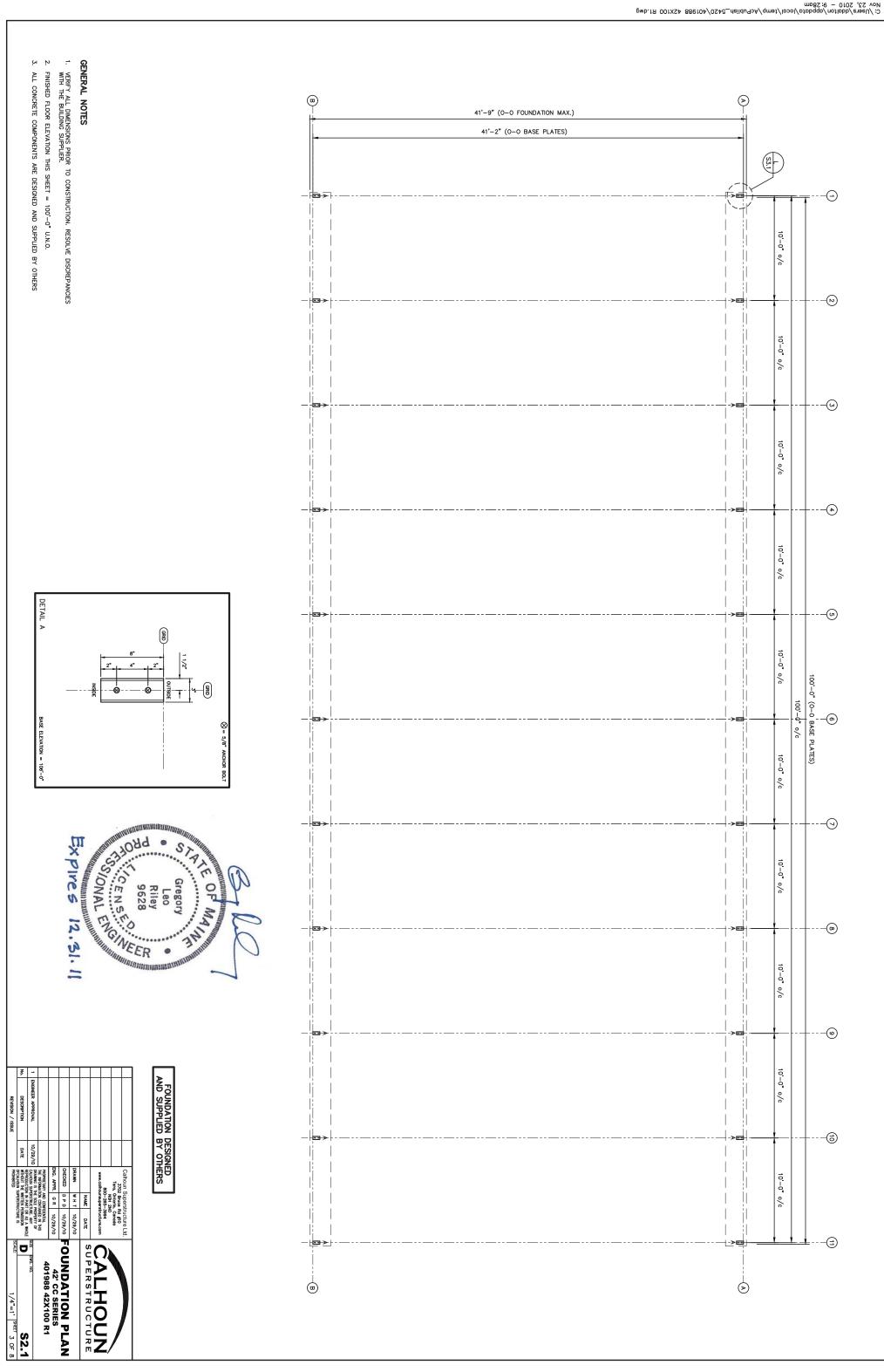
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I.B.C.	SSH	G.S.N.	CLB CLB	g P	#	F.F.E	E.W.	EQ.	E.O.R.	5	DIA	CONT	CJ.	C.W.B.	C.W.S.	C.S.A.	CAN	B.O.F.	B.O.D.	A.W.S.	A.S.T.M.	ALT	ARCH'L	A.N.S.I.	A.I.S.I.	A.I.S.C.	A.C.I.	
INTERNATIONAL BUILDING CODE	HOLLOW STRUCTURAL SECTION	GENERAL STRUCTURAL NOTES		GAUGE	FOOT	FINISH FLOOR ELEVATION	EACH WAY	EQUAL	ENGINEER ON RECORD	EACH FACE	DIAMETER	CONTINUOUS	CONTROL JOINT	_	_	CANADIAN STANDARDS ASSOCIATION	CANADIAN	BOTTOM OF FOOTING	BOTTOM OF DECK	AMERICAN WELDERS SOCIETY	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ALTERNATE	ARCHITECTURAL PLANS AND SPECIFICATIONS				AMERICAN CONCRETE INSTITUTE	
U.N.O.	U.B.C.	₹	T.O.W.	T.0.S.	T.O.M.	T.0.L.	I.O.J.	T.0.F.	T.O.D.	T.0.	T&G	STD	SPEC.	MIS	DS.	psf	Ρĺ	OPP	0.C.	N.T.S.	MISC.	M	MAX	MFR.	LLV.	Ę	ß.	'
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	STRUCTURE	REACTIONS		
	WINDWARD	/ SIDE A	LEEWARD /	/ SIDE B
BASIC LOAD CASE	HORIZONTAL (kip)	VERTICAL (kip)	HORIZONTAL (kip)	VERTICAL (kip)
DEAD LOAD	0.21	0.40	-0.21	0.40
COLLATERAL LOAD	0.03	0.05	-0.03	0.05
ROOF LIVE LOAD	1.29	2.48	-1.29	2.48
BALANCED SNOWLOAD	3.05	4.62	-3.05	4.61
UNBALANCED SNOWLOAD	1.98	1.74	-2.03	4.67
WIND PERP +CP +IP	-2.10	-2.30	80.0	-2.60
WIND PERP -CP +IP	-2.10	-2.30	80.0	-2.60
WIND PERP +CP -IP	-2.03	-1.03	0.01	-1.32
WIND PERP -CP -IP	-2.03	-1.03	0.01	-1.32
WIND PAR +IP	-0.19	-3.24	0.19	-3.24
WIND PAR -IP	-0.14	-1.97	0.14	-1.97
WIND POST				
WING SHOULD TO BUILDING TO BUILDING	BE ADDED TO SE FOR AL FORCE LENGTH:	HORIZONTAL (kip)	VERTICAL (kip)	MAX. CABLE FORCE (kip)
ES 1-3, 9-11		0.62	2.37	2.45
FRAME SPACING AND REACTIONS 1/4" AT TOP OF WALL FOR COM DEFLECTION SHALL BE A MAXIMU	M ASSU	LATER, ADING. 600.	AL DEFLECTION LES	LESS THAN ALL
	A MAXIMUM OF I	L/600.		

## FOUNDATION DESIGNED AND SUPPLIED BY OTHERS

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SCREASTRUCTURE	DATE	NAME				Н	
	www.cainounsuperstructure.com	nounsuper	www.co			-	
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	Calhoun Superstructure Ltd.	n Supers	Calhou			_	_
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COMPONENT SCHEDULE (AS OCCURS)

PART No.

COMMENT

SEE SCHEDULE - SHEET S4.1
TRUSS TO TRUSS CONNECTION

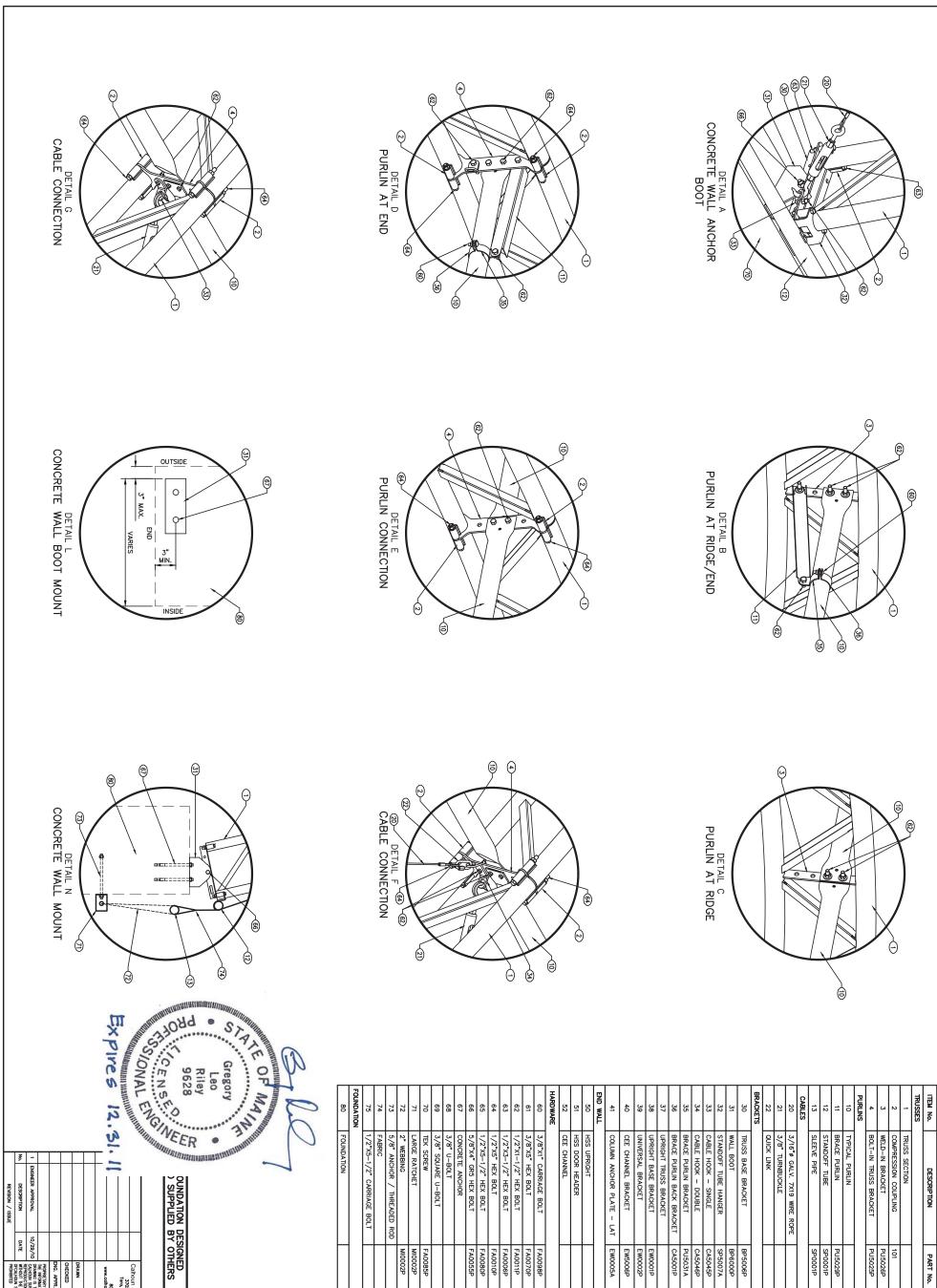
PURLINS/CABLES TO TRUSS CONNECTION
PURLINS/CABLES TO TRUSS CONNECTION

CONTINUOUS FABRIC SLEEVE PIPE

TYPICAL PURLIN - ALL BAYS

DIAGONAL PURLIN - CABLE BRACED BAYS ON TIME

CONTINUOUS FABRIC STANDOFF TUBE



FA0098P FA0070P FA0011P FA0006P

FA0010P FA0080P FA0055P

BRACE PURLIN BRACKET CONNECTION
UNIVERSAL BRACKET TO UPRIGHT HSS
PURLIN/GABLE HOOK CONNECTION
TRUSS TO TRUSS BASE BRACKET CONNECTION
COMPRESSION COUPLING CONNECTION
UPRIGHT BASE BRACKET TO HSS CONNECTION
TRUSS BASE TO BASE PLATE CONNECTION
DESIGNED AND SUPPLIED BY OTHERS
UPRIGHT BRACKET TO TRUSS CONNECTION

UNIVERSAL BRACKET TO DOOR JAMB/HEADER
SLEEVE PIPE TENSIONING
SLEEVE PIPE TENSIONING

AND SUPPLIED BY OTHERS

EW0005A

- SHEET S4.2 - SHEET S4.2 - SHEET S4.2

EW0001P EW5006P

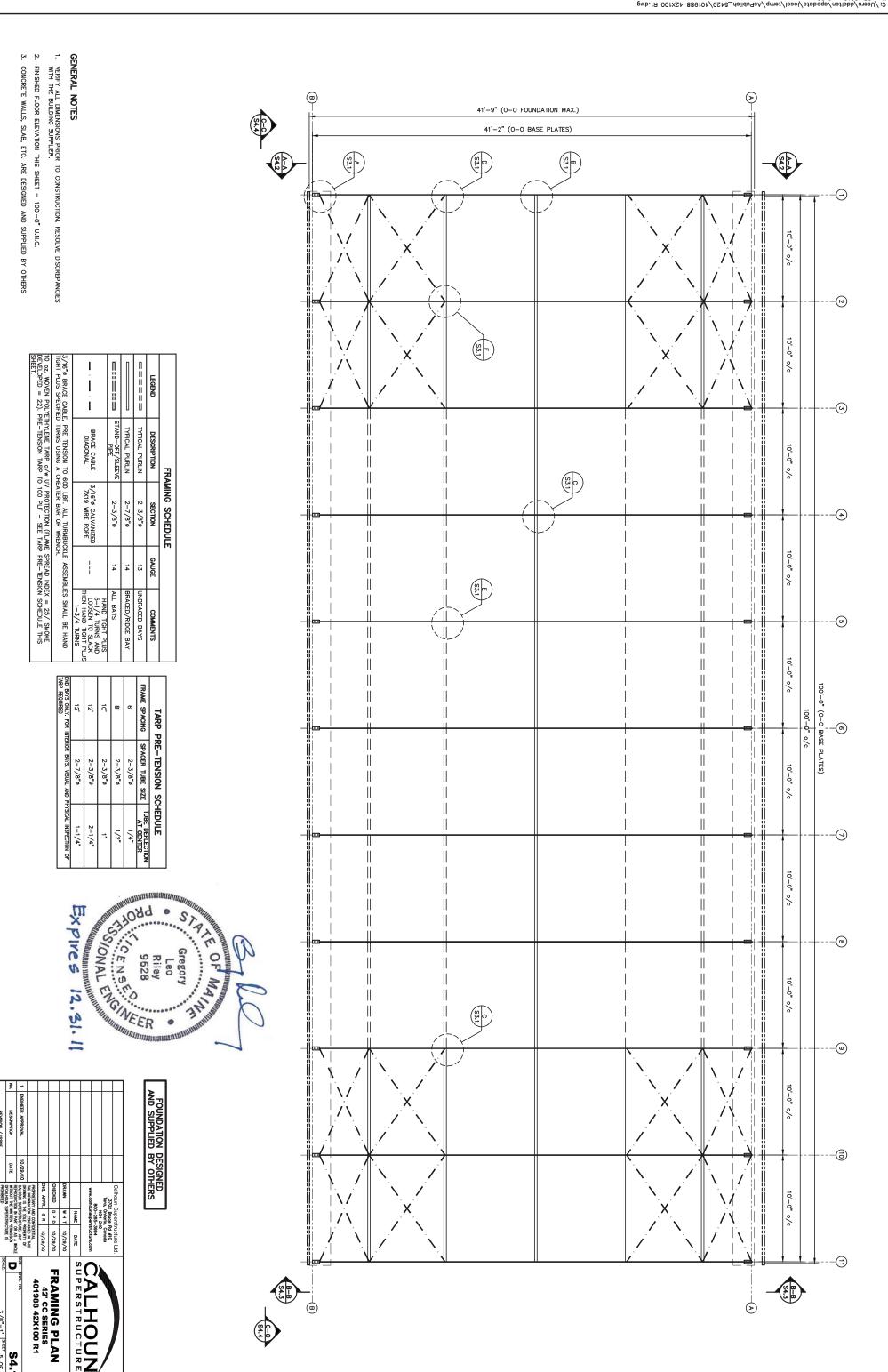
BRACE PURLIN TO TYPICAL PURLIN CONNECTION
UPRIGHT TO TRUSS CONNECTION
UPRIGHT TO FOUNDATION CONNECTION
DOOR HEADER TO UPRIGHT CONNECTION
CEE CHANNEL UPRIGHT/DOOR HEADER
CONNECTION
UPRIGHT TO FOUNDATION AT 0/H DOOR

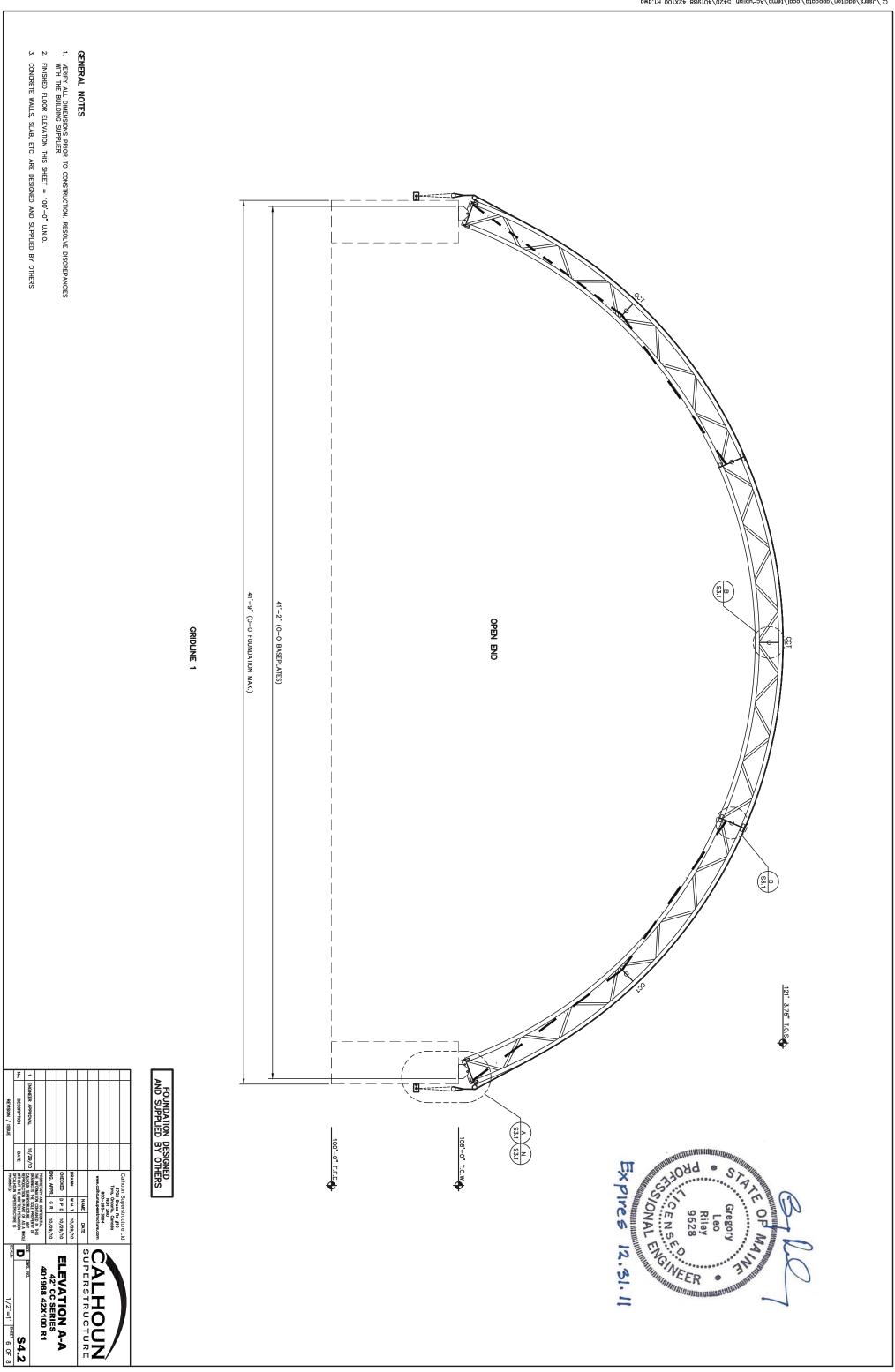
BP5006P BP6000P SP5007A CA5045P CA5046P

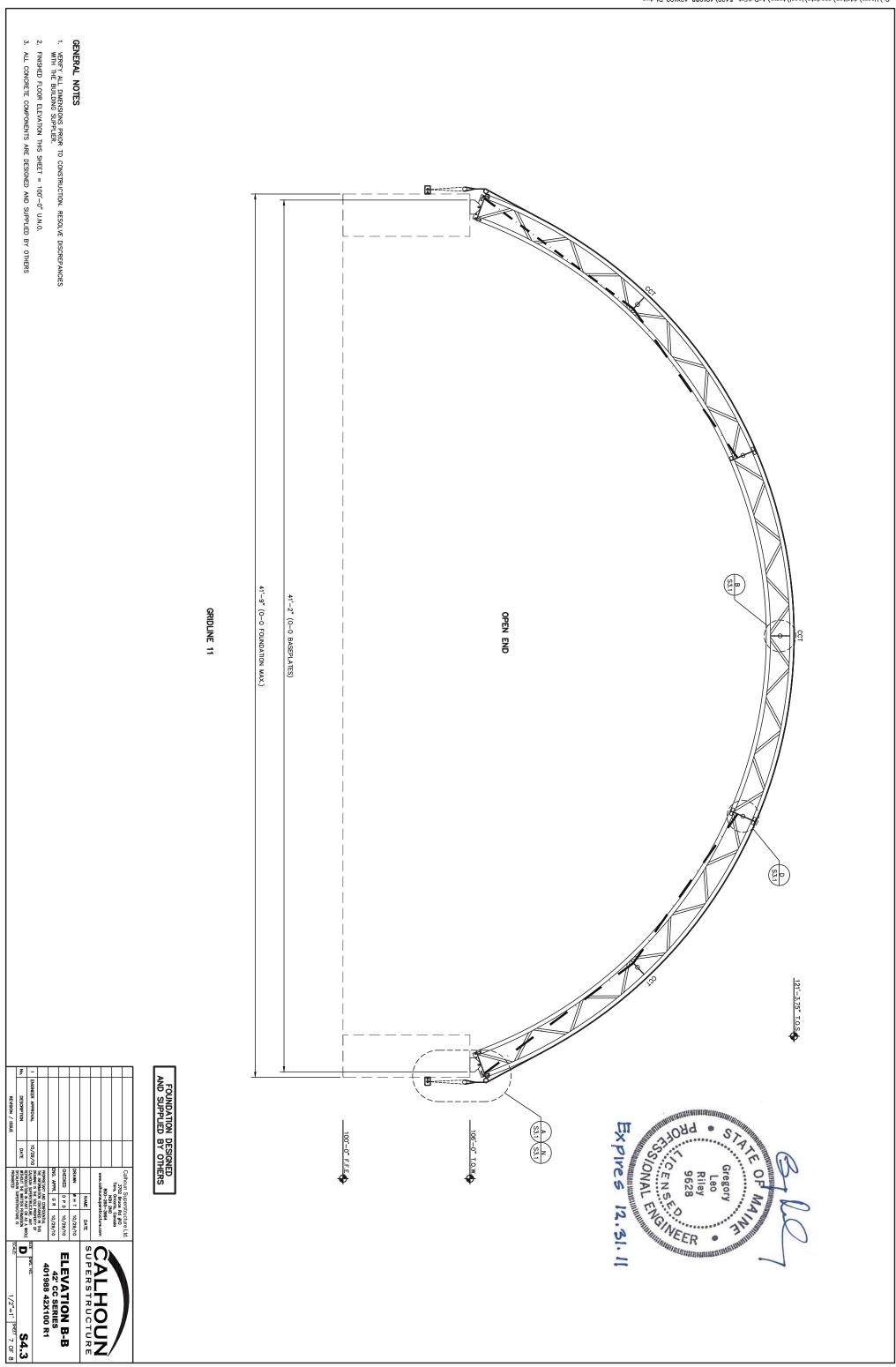
TRUSS TO WALL BOOT CONNECTION
TRUSS BASE BRACKET TO WALL CONNECTION
STANDOFF TUBE TO TRUSS CONNECTION
CABLE ASSEMBLY TO TRUSS CONNECTION
CABLE ASSEMBLY TO TRUSS CONNECTION
BRACE PURLIN TO TYPICAL PURLIN CONNECTION

PROHIBITED SCALE:	MITHOUT THE WRITTEN PERMISSION  MITHOUT THE WRITTEN PERMISSION	SIZE	THE INFORMATION CONFIDENTIAL	ENG. APPR. G R 10/29/10	CHECKED D P D 10/29/10	DRAWN W H T 10/29/10	NAME DATE S.	###:califourisuper so ucture:com	800-265-3994	Tara, Ontario, Canada	Calhoun Superstructure Ltd.
N T S SHEET 4 OF 8	S3.1	DWG. NO.	401988 42X100 K1	42' CC SERIES	DETAILS		SUPERSTRUCTURE	は「ころころ		<b>\</b>	









## GENERAL NOTES

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

	3/16" BRACE CABLE, PRE TENSION TO 600 LBF. ALL TURNBUCKLE ASSEMBLIES SHALL BE HAND TIGHT PLUS SPECIFIED TURNS USING A CHEATER BAR OR WRENCH.
BRACE CABLE 3/2	CABLE 3/ONAL 7
3/16"ø GALVANIZED 7X19 WIRE ROPE	16" GALVANIZED X19 WIRE ROPE X19 TURNBUG BF. ALL TURNBUG ER BAR OR WREN
:	XLE ASSEMBL
HAND TIGHT PLUS 5-1/4 TURNS AND LOOSEN TO SLACK THEN HAND TIGHT PLU 1-3/4 TURNS	ALL BATS  5-1/4 TURNS AND LOOSEN TO SLACK THEN HAND TIGHT PLUS 1-3/4 TURNS IES SHALL BE HAND

TARP P	TARP PRE-TENSION SCHEDULE	HEDULE
FRAME SPACING	SPACER TUBE SIZE	TUBE DEFLECTION AT CENTER
6'	2-3/8"ø	1/4"
8'	2-3/8"ø	1/2"
10'	2-3/8"ø	1"
12'	2-3/8"ø	2-1/4"
12'	2-7/8"ø	1-1/4"
END BAYS ONLY. FOR INTE	END BAYS ONLY. FOR INTERIOR BAYS, VISUAL AND PHYSICAL INSPECTION OF TARP REQUIRED	HYSICAL INSPECTION OF



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	ENGINEER APPROVAL										FOUNDATION I
	10/29/10										Designed By Others
KEPKODUCIION	DRAWING IS THE SOI CALHOUN SUPERSTR	PROPRIETARY AND I	ENG. APPR.	CHECKED	DRAWN		www.cgmounsup	80	3702 Bru Tara, Onta	Calhoun Supe	ĖS.
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	TIEN PERMISSION	PART
401988 4ZX100 K1	CONFIDENTIAL CONTAINED IN THIS SOLE PROPERTY OF	CONTA CONTA
42' CC SERIES	10/29/10	R R
ELEVATION C-C	10/29/10	3
	10/29/10	Ξ
SUPERSTRUCTUR	DATE	AME
CALHOUR	perstructure Ltd. ruce Rd #10 Itario, Canada DH 2NO 285–3994 superstructure.com	perstruct ruce Rd # Itario, Can DH 2NO 285-3994 superstruct

DRAWN		www.cginot	80	3702 Tara,	Calhoun S
₩ H T	NAME	insupers	NOH 2NO 800-265-3994	Bruce Ontario	Superst
10/29/10	DATE	www.camounsuperstructure.com	3994	3702 Bruce Rd #10 Tara, Ontario, Canada	Calhoun Superstructure Ltd.
	SUPERSTRUCTURE	ては「こここと		<b>\</b>	

100'-0" F.F.E.	\$3.1\S3.1\ N\\ A\\ A\\ S5.1\		#21'-3.75" T.O.S	(S.I.)
	X CCT		(33.1)	10'-0" 0/6
	X X			10'-0" 0/6
			(S3.1)	10'-0" 0/0
			(33)	10'-0" 0/c
				100'-0" o/c
				10'-0" o/c
           				10'-0" o/c
			(S3.1)	10'-0" o/c
	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	(9) 10'-0" o/c
         	X CCT			10'-0" o/c
CONGRETE WALL DESIGNED & SUPPLIED BY OTHERS	FABRIC SIDES AND ROOF	-		<del> </del>