

Diagram of a 100' tower structure, divided into five sections. The tower is shown in a side elevation view, with a central vertical axis and diagonal bracing. The sections are labeled on the right side, and the H/H ratios are listed on the left side.

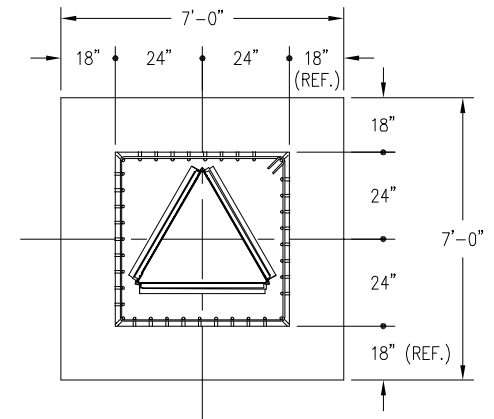
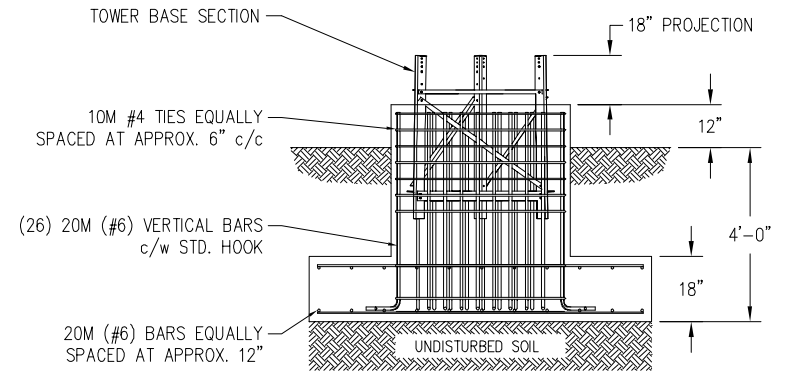
Section	H/H Ratio
TOP SECTION #1	12" H/H
SECTION #2	25" H/H
SECTION #3	28" H/H
SECTION #4	21" H/H
SECTION #5	24" H/H
	27" H/H

C A N A D A	MAXIMUM ALLOWABLE ANTENNA AREA – PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	14/10	5/3	–/–	10/7	5/3	–/–	27/18	16/11	8/5

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

- 5' EMBEDMENT SECTION INCLUDED IN KITS

DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"




CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
2.7	2.1	4.8

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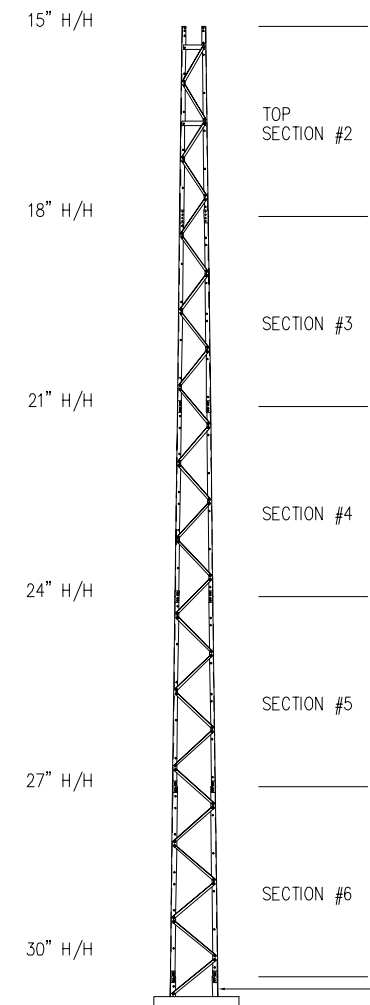


CUSTOMER:		SITE:		SCALE: 80.000	
DATE: 16 FEB 07		BY: EP		CHK: APP:	
TITLE: 50FT S100 SUPERTITAN TOWER				DRAWING NO. 000001620.0288	

NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.0100.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.0100.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

					 TRYLON TSF
					CUSTOMER: _____ SITE: _____ SCALE: 80.000 DATE: 16 FEB 07 BY: EP CHK: _____ APP: _____ TITLE: _____ DRAWING NO. 000001620.0288
REV.	REV. BY.	CHK. BY.	DESCRIPTION	DATE	

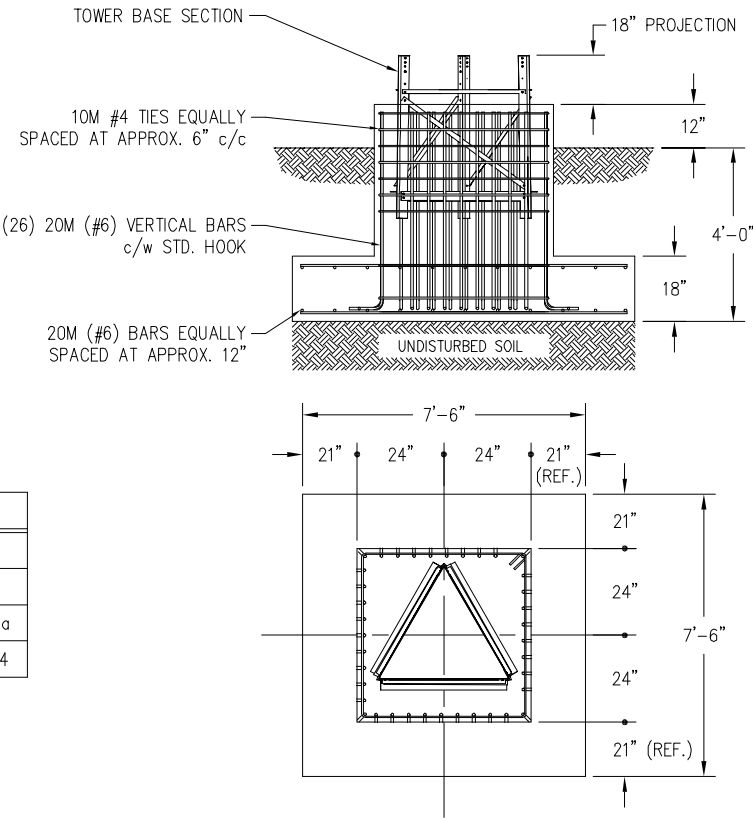
50FT S200 SUPERTITAN TOWER



C A N N A D A	MAXIMUM ALLOWABLE ANTENNA AREA – PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	30/21	19/13	10/7	29/21	19/13	10/7	48/31	30/20	21/14

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

FOUNDATION DESIGN (NORMAL DRY SOIL)
DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"




CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
3.1	2.1	5.2

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.0200.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.0200.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

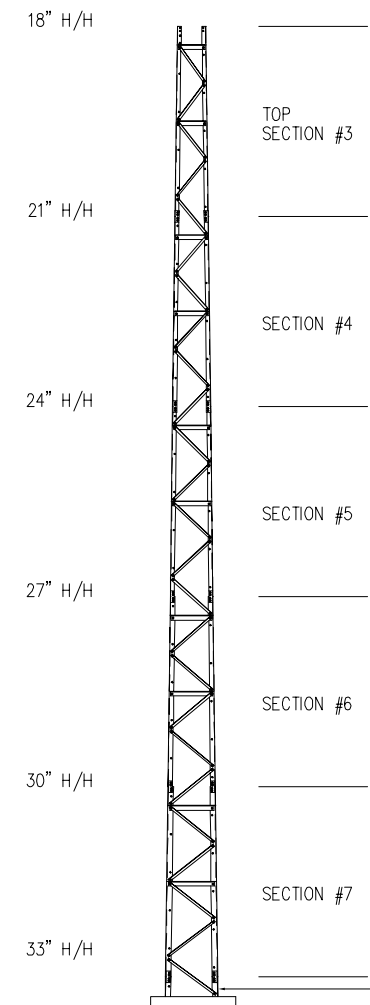
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TRYLON Tsf

CUSTOMER:	SITE:	SCALE: 80,000
DATE: 16 FEB 07	BY: EP	CHK: APP:
TITLE: 50FT S200 SUPERTITAN TOWER		DRAWING NO. 000001620.0289

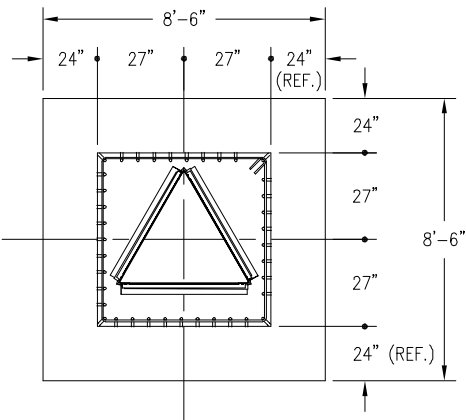
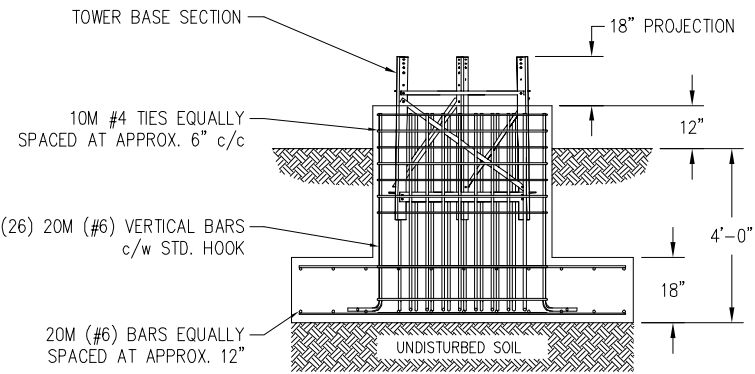
50FT S300 SUPERTITAN TOWER



C A N A D A	MAXIMUM ALLOWABLE ANTENNA AREA – PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	50/35	36/25	27/19	50/35	35/25	27/19	76/51	54/36	41/27

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

FOUNDATION DESIGN (NORMAL DRY SOIL)
DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"



CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
4.0	2.6	6.6

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.0300.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.0300.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

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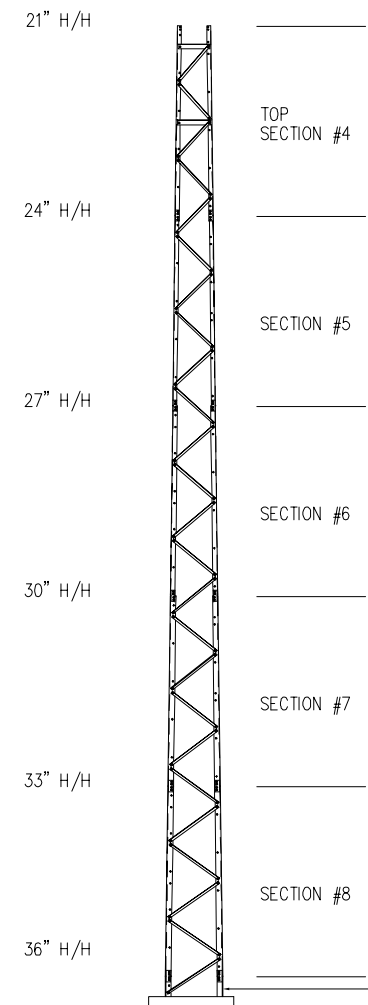
TRYLON TSE

CUSTOMER: SITE: SCALE: 80,000

DATE: 16 FEB 07 BY: EP CHK: APP:

TITLE: 50FT S300 SUPERTITAN TOWER DRAWING NO. 000001620.0290

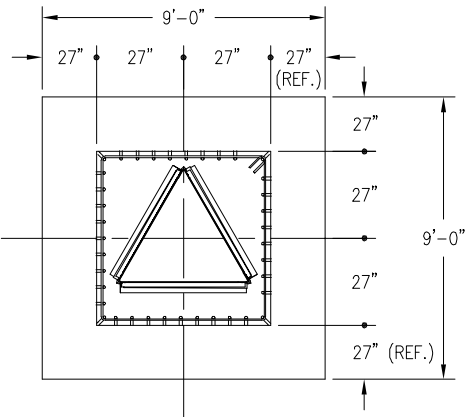
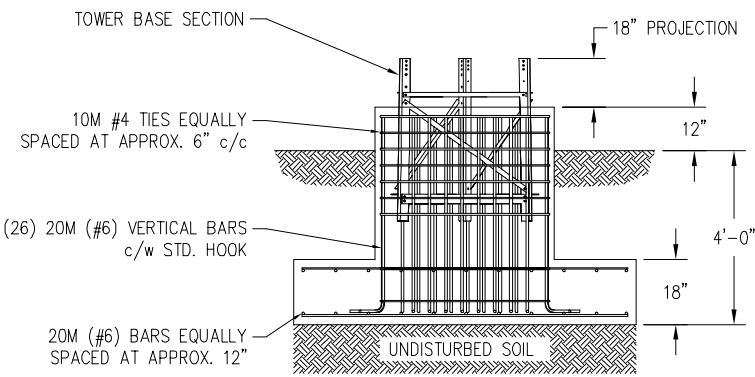
50FT S400 SUPERTITAN TOWER



C A N N A D A	MAXIMUM ALLOWABLE ANTENNA AREA – PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	84/60	58/41	42/30	73/52	52/37	39/27	124/83	89/59	66/44

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

FOUNDATION DESIGN (NORMAL DRY SOIL)
DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"



CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
4.5	2.6	7.1

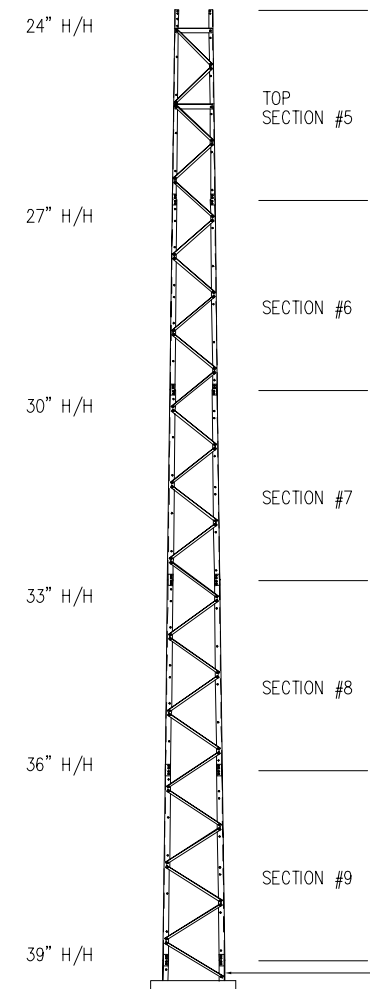
- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.0400.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.0400.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

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CUSTOMER:	SITE:	SCALE: 80,000
DATE: 16 FEB 07	BY: EP	CHK: APP:
TITLE: 50FT S400 SUPERTITAN TOWER		DRAWING NO. 000001620.0291

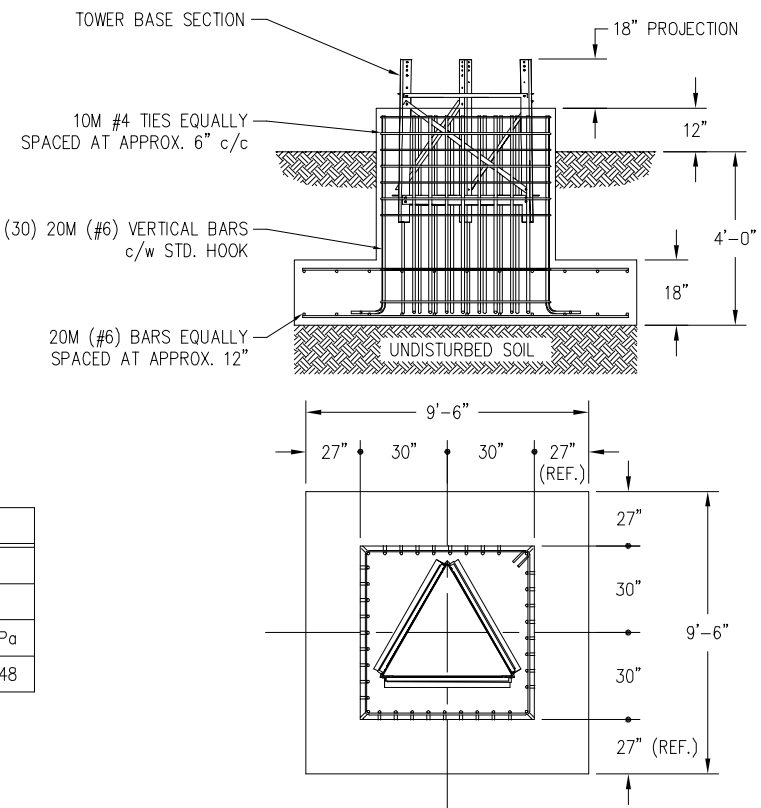
50FT S500 SUPERTITAN TOWER



C A N A D A	MAXIMUM ALLOWABLE ANTENNA AREA – PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	90/64	62/44	44/31	80/57	60/42	40/28	134/89	97/65	72/48

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

FOUNDATION DESIGN (NORMAL DRY SOIL)
DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"



CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
5.0	3.2	8.2

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.0500.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.0500.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

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TRYLON TSE

CUSTOMER:	SITE:	SCALE: 80,000
DATE: 16 FEB 07	BY: EP	CHK: APP:
TITLE: 50FT S500 SUPERTITAN TOWER		DRAWING NO. 000001620.0292

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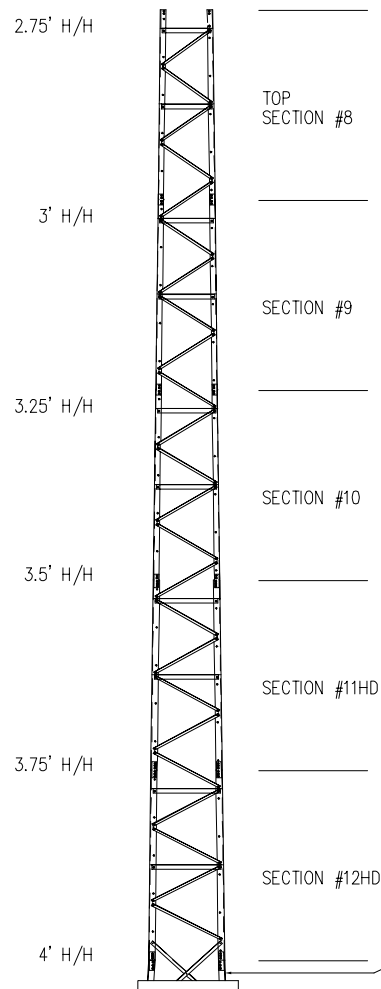
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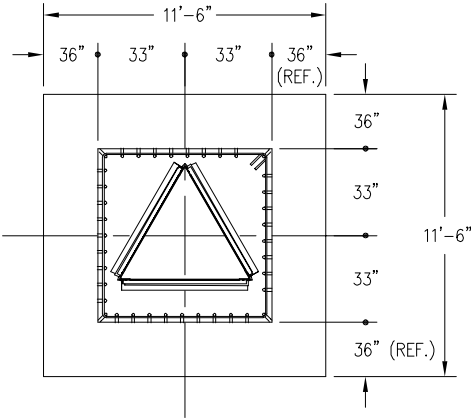
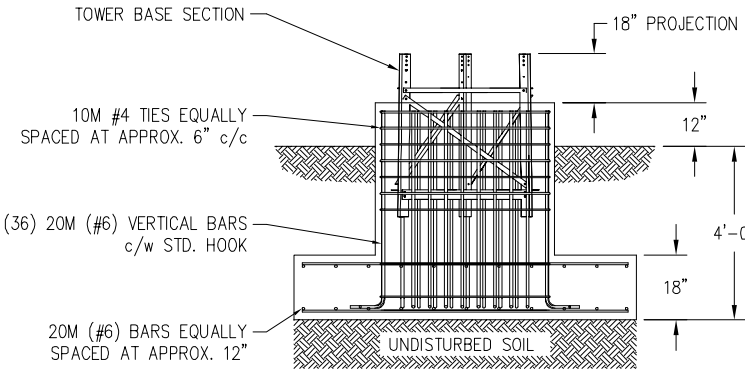
50FT H800 SUPERTITAN TOWER



C A N N A D A	MAXIMUM ALLOWABLE ANTENNA AREA -- PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	90/64	64/45	47/33	90/64	64/45	47/33	196/130	138/92	98/65

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

FOUNDATION DESIGN (NORMAL DRY SOIL)
DESIGN ASSUMES THAT FROST DEPTH IS LESS THAN 4'-0"



CUBIC YARDS OF CONCRETE		
PAD CONC VOL.	PIER CONC VOL.	TOTAL VOL.
7.4	3.9	11.3

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.H800.050.
2) PRE-ASSEMBLED PART NUMBER: 5.95.H800.050.
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

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CUSTOMER:	SITE:	SCALE: 80,000
DATE: 16 FEB 07	BY: EP	CHK: APP:
TITLE: 50FT H800 SUPERTITAN TOWER		DRAWING NO. 000001.620.0294

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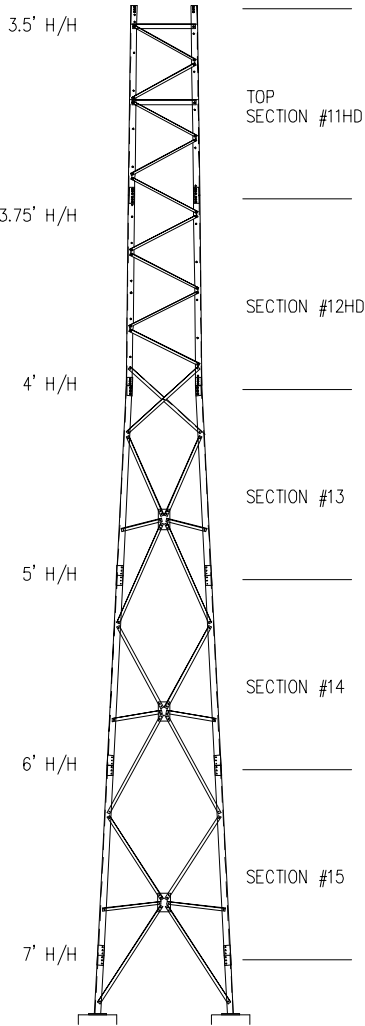
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50FT S1100 SUPERTITAN TOWER

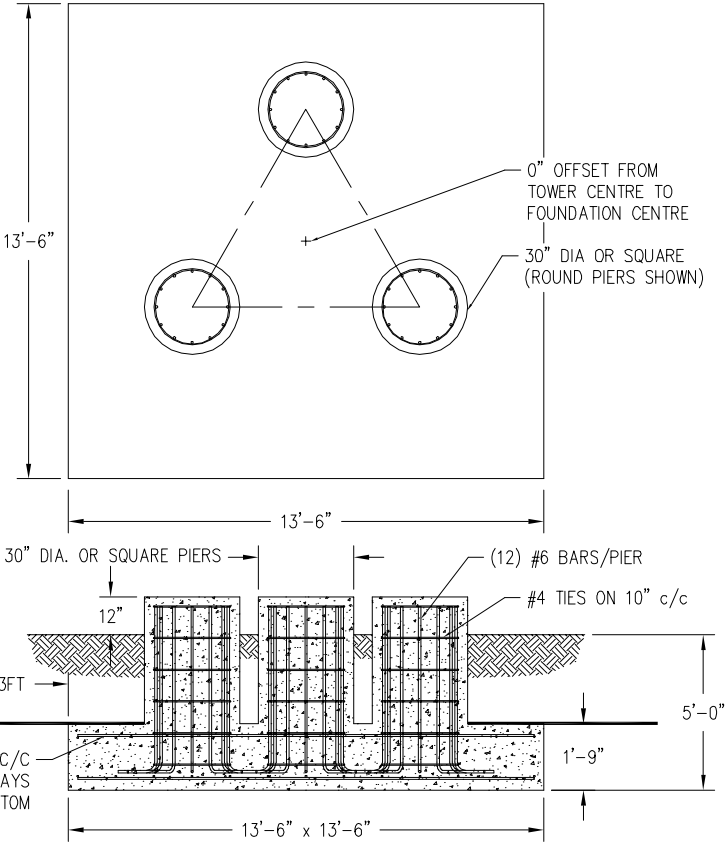


C A N A D A	MAXIMUM ALLOWABLE ANTENNA AREA - PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	157/112	115/82	87/62	157/112	115/82	87/62	436/291	324/216	252/168

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =

INSULATING STYROFOAM REQUIRED
WHERE FROST PENETRATION EXCEEDS
6 FEET. PLACE STYROFOAM ON SLAB
AND EXTEND 3 FEET BEYOND EDGE.
HIGHLOAD 40 INSULATION BY DOW
CHEMICALS IS RECOMMENDED.

FOUNDATION DESIGN (NORMAL DRY SOIL)



CUBIC YARDS of CONCRETE				
PAD	RND PIER	SQ PIER	TOTAL RND	TOTAL SQ
11.81	0.77	0.98	14.13	14.76

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.S1100.050.
2) PRE-ASSEMBLED PART NUMBER: NOT AVAILABLE
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

REV.	REV. BY:	CHK. BY:	DESCRIPTION	DATE

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CUSTOMER:		SITE:		SCALE: 80,000	
DATE: 16 FEB 07	BY: EP	CHK:	APP:		
TITLE: 50FT S1100 SUPERTITAN TOWER				DRAWING NO. 000001.620.0296	

50FT S1200 SUPERTITAN TOWER

3.75' H/H

4' H/H

5' H/H

6' H/H

7' H/H

8' H/H

TOP
SECTION #12HD

SECTION #13

SECTION #14

SECTION #15

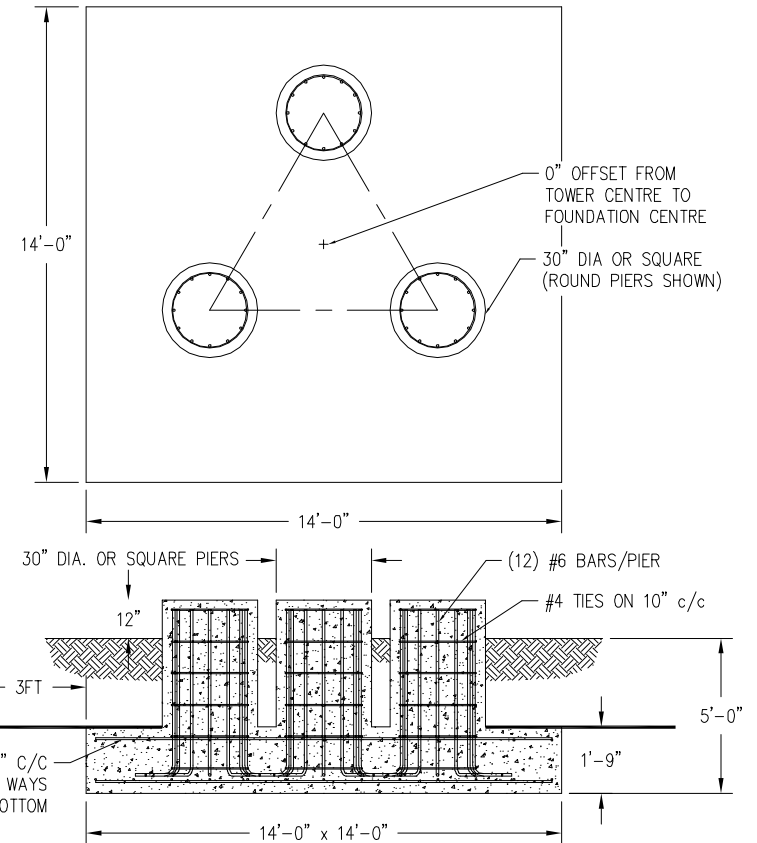
SECTION #16

C A N N A D A	MAXIMUM ALLOWABLE ANTENNA AREA - PER CSA-S37-1								
	ROUND ANTENNA MEMBER / FLAT ANTENNA MEMBER								
	CLASS 1 (10mm ICE)			CLASS 1 (25mm ICE)			CLASS 3 (25mm ICE)		
	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa	350Pa	450Pa	550Pa
	157/112	117/83	91/65	157/112	117/83	91/65	436/286	324/213	252/167

FOUNDATION LOADS:
MAX. OVERTURNING MOMENT (K*FT) =
MAX. SHEAR (kips) =
MAX. AXIAL (kips) =


INSULATING STYROFOAM REQUIRED
WHERE FROST PENETRATION EXCEEDS
6 FEET. PLACE STYROFOAM ON SLAB
AND EXTEND 3 FEET BEYOND EDGE.
HIGHLOAD 40 INSULATION BY DOW
CHEMICALS IS RECOMMENDED.

FOUNDATION DESIGN (NORMAL DRY SOIL)



CUBIC YARDS of CONCRETE				
PAD	RND PIER	SQ PIER	TOTAL RND	TOTAL SQ
12.70	0.77	0.98	15.02	15.66

- NOTES: 1) KNOCK-DOWN PART NUMBER 5.94.S1200.050.
2) PRE-ASSEMBLED PART NUMBER: NOT AVAILABLE
3) ANTENNA LOADS ARE CENTRALLY LOCATED AND BALANCED, 3-FT OR LESS ABOVE THE TOWER TOP.
4) WIND LOADING ASSUMES (1) 1/2" TRANSMISSION LINE PER 10 SQ.FT. OF ROUND MEMBER ANTENNA AREA.

						 TRYLON TSF							
						CUSTOMER:		SITE:		SCALE: 80.000			
						DATE: 16 FEB 07		BY: EP		CHK: APP:			
						TITLE:						DRAWING NO.	
REV.	REV. BY:	CHK. BY:	DESCRIPTION			DATE			50FT S1200 SUPERTITAN TOWER 000001.620.0297				