ASSEMBLY HEIGHT NUMBER (FEET) SECTION PART NO. 12 REQTO SPREAD ROUNDS 12 REQTO SPREAD ROUNDS FLATS ROUNDS FLATS (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS) (POUNDS) (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS (POUNDS) (POUNDS (POUNDS) (POUNDS) (POUNDS (POUNDS) (POUNDS)															FILE NO.	CCV
ASSEMBLY NUMBER (FEFT) STOP (FEFT) (FEFT) SECTION (FEFT) (					BASE SECTION	.i	ALLO	WARLE PRO1E	CTED AREA (SC	) FT )		RASE DE	ACTIONS			
NUMBER (FET) SECTION PART NO. 12 REQTO SPREAD ROUNDS FLATS ROUNDS FLATS (POUNDS) (POUNDS) (POUNDS) (POUNDS) (POUNDS) (POUNDS) (SS040090 40 3WN 4N SPA 2: 2 16.7 10.0 20.0 12.0 2.9,800 19,800 1,700 38,100 SS050090 50 3WNB 5N SPS 2: 6 16.7 10.0 20.0 12.0 27,900 26,600 1,950 58,900 SS060090 50 3WNB 5N SPS 2: 6 14.2 8.5 17.5 10.5 33,700 32,400 1,930 71,400 SS070090 70 3WNB 6N62 5/8x42 4* 61/4 14.2 8.5 17.5 10.5 27,100 25,500 2,760 103,100 SS080090 80 3WN 6N62 5/8x42 4* 61/4 12.5 7.5 15.8 9.5 31,300 29,600 1,920 3,850 169,900 SS080090 90 3WNB 7N165 5/8x42 6* 63/4 10.0 6.0 13.3 8.0 33,100 39,900 3,850 169,900 SS100090 100 3WN 7N165 5/8x42 8* 63/4 10.0 6.0 13.3 8.0 33,100 39,900 3,850 180,900 SS10090 110 3WNB 8N106 5/8x42 8* 63/4 8.3 5.0 11.7 7.0 36,100 35,400 5,070 255,500 SS120090 130 3WNB 8N106 5/8x42 8* 63/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 SS120090 150 3WNB 9N82 5/8x42 10* 63/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 SS120090 150 3WNB 9N82 5/8x42 10* 63/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100 SS120090 150 3WNB 10N183 3/4x48 12* 71/4 5.8 3.5 8.3 5.0 52,700 48,700 8,230 552,000 SS120090 150 3WNB 10N183 3/4x48 12* 71/4 5.8 3.5 8.3 5.0 52,700 48,700 8,230 552,000 SS120090 190 3WNB 11N332 7/8X60 14* 77/8 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 SS120090 190 3WNB 11N332 7/8X60 14* 77/8 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 SS120090 190 3WNB 11N332 7/8X60 14* 77/8 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 SS120090 190 3WNB 11N332 7/8X60 14* 77/8 5.8 3.5 8.3 5.0 52,700 48,700 8,230 552,700 MSR 200 552						-			· ` `		DOMAII OAD			ОТМ		DWN CHK APP
SS050D90   S0			SECTION	PART NO.	1 1		<u> </u>						SHEAR	(FOOT-	7	ZAW JDM HA
SS060D90   G0   3WN   5N   SB5   2°6   14.2   8.5   17.5   10.5   33,700   32,400   1,930   71,400		40	3WN								20,800	19,800	1,700	38,100		
SS070D90   70   3WNB   6N62   5/8X42   4'6 1/4   14.2   8.5   17.5   10.5   27,100   25,500   2,760   103,100		50	3WNB	5N						12.0	27,900	26,600	1,950	58,900		
SS080D90   80   3WN   6N62   5/8X42   4' 6 1/4   12.5   7.5   15.8   9.5   31,300   29,600   2,820   119,300		60	3WN								<del>'</del>					
SS090D90 90 3WNB 7N165 5/8x42 6' 6 3/4 12.5 7.5 15.8 9.5 31,100 29,100 3,850 169,900 SS100D90 100 3WN 7N165 5/8x42 6' 6 3/4 10.0 6.0 13.3 8.0 33,100 30,900 3,830 180,600 SS110D90 110 3WNB 8N106 5/8x42 8' 6 3/4 10.0 6.0 13.3 8.0 33,100 30,900 33,830 180,600 SS120D90 120 3WN 8N106 5/8x42 8' 6 3/4 8.3 5.0 11.7 7.0 38,100 35,400 5,100 270,300 SS130D90 130 3WNB 9N82 5/8x42 10' 6 3/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 SS140D90 140 3WN 9N82 5/8x42 10' 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800 SS150D90 150 3WNB 10N183 3/4x48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100 SS160D90 160 3WN 10N183 3/4x48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 SS170D90 170 3WNB 11N332 7/8x60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 57,900 10,650 763,700 SS190D90 190 3WNB 12N18 7/8x60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 57,900 10,650 763,700 SS190D90 190 3WNB 12N18 7/8x60 16' 8 3/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 SS190D90 190 3WNB 12N18 7/8x60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 DWG REFERENCE		70			<u> </u>						27,100			103,100		
SS10DD90 100 3WN 7N165 5/8X42 6 6 3/4 10.0 6.0 13.3 8.0 33,100 30,900 3,830 180,600 SS110D90 110 3WNB 8N106 5/8X42 8 6 3/4 10.0 6.0 13.3 8.0 36,000 33,400 5,070 255,500 SS120D90 120 3WN 8N106 5/8X42 8 6 3/4 8.3 5.0 11.7 7.0 38,100 35,400 5,100 270,300 SS130D90 130 3WNB 9N82 5/8X42 10 6 3/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 SS140D90 140 3WN 9N82 5/8X42 10 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800 SS150D90 150 3WNB 10N183 3/4X48 12' 71/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100 SS160D90 160 3WN 10N183 3/4X48 12' 71/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 SS160D90 170 3WNB 11N332 7/8X60 14' 77/8 5.8 3.5 8.3 5.0 60,900 57,900 10,650 763,700 SS180D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 DWG REFERENCE			3WN	6N62	<del></del>						<del></del>					
SS110D90 110 3WNB 8N106 5/8X42 8'6 3/4 10.0 6.0 13.3 8.0 36,000 33,400 5,070 255,500 S120D90 120 3WN 8N106 5/8X42 8'6 3/4 8.3 5.0 11.7 7.0 38,100 35,400 5,100 270,300 S130D90 130 3WNB 9N82 5/8X42 10' 6 3/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 S140D90 140 3WN 9N82 5/8X42 10' 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800 S150D90 150 3WNB 10N183 3/4X48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100 S160D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 50,000 55,000 10,570 739,500 S170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500 S180D90 180 3WNB 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 S190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 MSGREFERENCE \$\frac{12NH}{20'} \frac{11NH}{20'} \frac{11NH}{20'} \frac{11NH}{20'} \frac{10NH}{20'} \frac{20'}{20'} \frac{3NNB}{20'} \frac{11N3}{20'} \frac{3NNB}{20'} \frac{3NNB}{20'} \frac{3NNB}{20'} \frac{11NB}{20'} \frac{3NNB}{20'} \fra		90	3WNB	7N165	5/8X42	6' 6 3/4	12.5	7.5	15.8	9.5	31,100	29,100	3,850	169,900		
SS120D90 120 3WN 8N106 5/8X42 8' 6 3/4 8.3 5.0 11.7 7.0 38,100 35,400 5,100 270,300 S130D90 130 3WNB 9N82 5/8X42 10' 6 3/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800 S140D90 140 3WN 9N82 5/8X42 10' 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800 S150D90 150 3WNB 10N183 3/4X48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100 S150D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900 S170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500 S180D90 190 3WNB 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 S190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 DWG REFERENCE	SS100D90	100	3WN	7N165	5/8X42	6' 6 3/4	10.0	6.0	13.3	8.0	33,100	30,900	3,830	180,600		
SS130D90 130 3WNB 9N82 5/8X42 10' 6 3/4 8.3 5.0 11.7 7.0 42,900 39,700 6,520 375,800   SS140D90 140 3WN 9N82 5/8X42 10' 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800   SS150D90 150 3WNB 10N183 3/4X48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100   SS160D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900   SS170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500   SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700   SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000   **ANCHOR BOLTS OR SHORT BASE PART NO.**  **SEE CHART FOR TOWER HEIGHT    **SEE CHART F	SS110D90	110	3WNB	8N106	5/8X42	8' 6 3/4	10.0	6.0	13.3	8.0	36,000	33,400	5,070	255,500		
SS140D90 140 3WN 9N82 5/8X42 10' 6 3/4 6.7 4.0 10.0 6.0 44,500 41,200 6,540 389,800  SS150D90 150 3WNB 10N183 3/4X48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100  SS160D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900  SS170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500  SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700  SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000  **ANCHOR BOLTS OR SHORT BASE PART NO.  **SEE CHART FOR TOWER HEIGHT 12NH 20' 20' 20' 20' 20' 3WNB 3WNB 3WNB 3WNB 20' 20' 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB	SS120D90	120	3WN	8N106	5/8X42	8' 6 3/4	8.3	5.0	11.7	7.0	38,100	35,400	5,100	270,300		
SS150D90 150 3WNB 10N183 3/4X48 12' 7 1/4 6.7 4.0 10.0 6.0 50,900 47,000 8,280 532,100   SS160D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900   SS170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500   SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700   SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000    **ANCHOR BOLTS OR SHORT BASE PART NO.**  SEE CHART FOR TOWER HEIGHT    12NH 11N 10NH 9NH 8N 7N 6N 5N 4N 3WN 20' 20' 20' 20' 20' 20' 3WNB 3WN 3WNB 20' 3WNB 20' 3WNB 3WNB 20' 3WNB 3WN 20' 3WNB 3WN 20' 3WNB 3WNB 20' 3WNB 3WNB 20' 3WNB 3WNB 3WN 20' 3WNB 3WNB 3WNB 20' 3WNB 3WNB 3WNB 20' 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB	SS130D90	130	3WNB	9N82	5/8X42	10' 6 3/4	8.3	5.0	11.7	7.0	42,900	39,700	6,520	375,800		
SS160D90 160 3WN 10N183 3/4X48 12' 7 1/4 5.8 3.5 8.3 5.0 52,700 48,700 8,330 550,900   SS170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500   SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700   SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000    **ANCHOR BOLTS OR SHORT BASE PART NO.**  SEE CHART FOR TOWER HEIGHT	SS140D90	140	3WN	9N82	5/8X42	10' 6 3/4	6.7	4.0	10.0	6.0	44,500	41,200	6,540	389,800		
SS170D90 170 3WNB 11N332 7/8X60 14' 7 7/8 5.8 3.5 8.3 5.0 60,900 56,000 10,570 739,500 SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 ANCHOR BOLTS OR SHORT BASE PART NO.  SEE CHART FOR TOWER HEIGHT SEE CHART FOR TOWER HEIGHT SOLUTION SEE CHART FOR TOWER HEIGHT SOLUTION SO	SS150D90	150	3WNB	10N183	3/4X48	12' 7 1/4	6.7	4.0	10.0	6.0	50,900	47,000	8,280	532,100		
SS180D90 180 3WN 11N332 7/8X60 14' 7 7/8 5.0 3.0 7.5 4.5 62,900 57,900 10,650 763,700 SS190D90 190 3WNB 12N18 7/8X60 16' 8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 DWG REFERENCE SEE CHART FOR TOWER HEIGHT 12NH 20' 20' 20' 20' 20' 3WNB 20' 3WNB 3WNB 20' 3	SS160D90	160	3WN	10N183	3/4X48	12' 7 1/4	5.8	3.5	8.3	5.0	52,700	48,700	8,330	550,900		
SS190D90 190 3WNB 12N18 7/8X60 16'8 3/8 5.0 3.0 7.5 4.5 73,000 66,900 13,060 1,007,000 DWG REFERENCE  **ANCHOR BOLTS OR SHORT BASE PART NO.**  SEE CHART FOR TOWER HEIGHT  12NH 20' 20' 20' 20' 20' 20' 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB 3WNB	SS170D90	170	3WNB	11N332	7/8X60	14' 7 7/8	5.8	3.5	8.3	5.0	60,900	56,000	10,570	739,500		
\$12NH	SS180D90	180	3WN	11N332	7/8X60	14' 7 7/8	5.0	3.0	7.5	4.5	62,900	57,900	10,650	763,700		
SEE CHART FOR TOWER HEIGHT ——  12NH	SS190D90	190	3WNB	12N18	7/8X60	16' 8 3/8	5.0	3.0	7.5	4.5	73,000	66,900	13,060	1,007,000	DWG REFERENCE	
UPLIFT PER LEG  SHOP PER LEG  GENERAL NOTES	ELEVATIO	DWNLOAD R LEG	12NH 20'		10NH 20'	9NH 20'			6N 20'	5N 20'	4N 20' - 3V	3WN				

IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

6718 WEST PLANK ROAD

PEORIA, IL 61604 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROMN. IT IS NOT TO BE EPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT

ERECTION PROFILE

SSV/90 MPH FASTEST MILE/NO ICE

C870699

CW

WDU

DRAWING NO

DATE: Sep/02/1987

9. FOR ADDITIONAL BRACING, GROUTING AND

WITH (P/N 3TT) TAPERED TOP.

WITH (P/N 4TTN) TAPERED TOP.

NUMBERS B050439 AND CU730104.

DRAINAGE DETAILS SEE DRAWING SK720305.

11. ALL TOWERS WITH 3WN TOP SECTION PROVIDED

12. ALL TOWERS WITH 3WNB TOP SECTION PROVIDED

14. FOR FOUNDATION DETAILS SEE DRAWING D870483 & B841300.

15. FOR ANCHORS AND SHORT BASE INSTALLATION SEE DRAWING

13. FOR STEP BOLT DETAILS SEE DRAWING B651264.

10. FOR TAPERED TOP DETAILS SEE DRAWING SK670407.

NATIONAL STANDARD ANSI/EIA-222-F-1996 (NO ICE).

AREAS ARE SYMMETRICALLY PLACED ON THE TOWER.

2. EQUIVALENT FLAT-PLATE ANTENNA AREAS, BASED

ON EIA RS-222-C, MUST NOT EXCEED THE AREAS SHOWN FOR FLAT MEMBER ANTENNAS.

3. TOWER DESIGNS ASSUME ALLOWABLE PROJECTED

4. DESIGNS ASSUME ONE 7/8 LINE TO TOP AND TWO

5. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR

6. TOWER ERECTION AND DISMANTLING MUST BE

7. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY

DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.

TELEPHONE LINES.

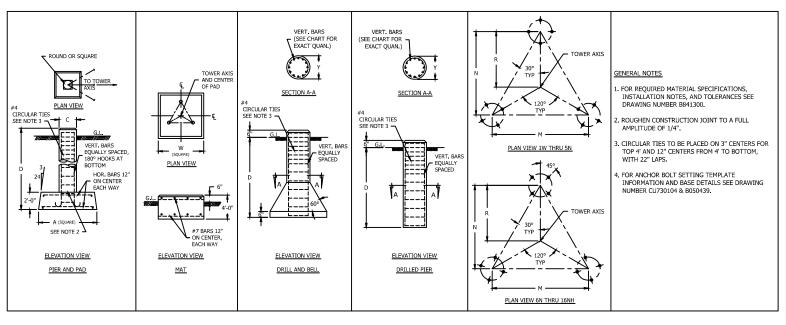
VISIBLE LOCATION.

7/8 LINES TO 30 FEET BELOW TOP, ONE PER FACE.

			l		ANCHOR	BOLT DATA					PI	ER AND PA	AD.				MAT		DR	ILL AND E	ELL			DRILLI	D PIER	
BASE SECT.	ALLOW LEG LOAD	ALLOW. SHEAR (LBS.	LAY	OUT DIMEN	SIONS	SIZE 12 REQ'D OR	BOLT	PROJ. (IN.)	D	А	С	VERT. BARS	HOR. BARS	REQ'D (CU.		w	REQ'D CONC.	D	х	Υ	VERT. BARS	REQ'D CONC.			VEDT	REQ'D CONC.
NO.	(LBS.)	PER LEG)	М	N	R	SHORT BASE	DIA. (IN.)	(IN.)				BARS	BARS		SQUARE		(CU. YDS.)				BARS	(CU. YDS. 3 FDNS)	D	Y	VERT. BARS	(CU. YDS. 3 PIERS)
1W	4,530		1'-2"	1'-0 1/8"	8 1/16"		2.66									4'-0"	2.4									
2W	11,200		1'-6"	1'-3 9/16"	10 3/8"	SB2	2.66									5'-6"	4.5									
3WN	19,600		1'-10"	1'-7 1/16"	1'-0 11/16"	SB3	3.50									6'-9"	6.8									
4N	28,000		2'-2"	1'-10 1/2"	1'-3"	SB4	4.25									8'-0"	9.5									
5N	36,000		2'-6"	2'-2"	1'-5 5/16"	SB5	4.94									8'-9"	11.3									
6N	33,730		4'-6 1/4"	3'-11"	2'-7 5/16"	5/8X42	4.94	3.50								10'-3"	15.6									
7N	33,730	4,000	6'-6 3/4"	5'-8 3/16"	3'-9 1/2"	5/8X42	4.94	3.50	8'-0"	4'-6"	2'-0"	8 #6	#6	6.3	6.9	11'-6"	19.6									
8N	52,530	6,000	8'-6 3/4"	7'-5"	4'-11 5/16"	5/8X42	4.94	3.50	8'-9"	5'-6"	2'-0"	8 #7	#6	8.7	9.4	14'-3"	30.1	11'-0"	4'-6"	2'-6"	10 #6	7.8	18'-6"	2'-6"	10 #6	10.4
9NH	54,000	6,500	10'-6 3/4"	9'-1 3/4"	6'-1 3/16"	5/8X42	4.94	3.50	9'-0"	5'-6"	2'-0"	8 #7	#6	8.8	9.5	16'-0"	37.9	11'-0"	5'-0"	2'-6"	10 #6	8.7	19'-6"	2'-6"	10 #6	10.9
10NH	56,000	8,000	12'-7 1/4"	10'-11"	7'-3 5/16"	3/4X48	5.66	4.00	9'-0"	5'-6"	2'-0"	8 #7	#6	8.8	9.5	18'-3"	49.3	11'-0"	5'-0"	2'-6"	10 #6	8.7	19'-6"	2'-6"	10 #6	10.9
11N	64,930	10,000	14'-7 7/8"	12'-8 5/16"	8'-5 9/16"	7/8X60	7.06	5.00	10'-0"	5'-6"	2'-6"	8 #8	#6	10.8	12.0			12'-0"	5'-0"	2'-6"	10 #6	9.2	21'-9"	2'-6"	10 #6	12.2
12NH	85,600	10,000	16'-8 3/8"	14'-5 1/2"	9'-7 11/16"	7/8X60	7.06	5.00	11'-0"	5'-6"	2'-6"	10 #8	#6	11.3	12.7			12'-6"	6'-0"	2'-6"	10 #6	11.8	22'-9"	3'-0"	12 #6	18.3
13NH	114,100	12,500	18'-8 3/8"	16'-2 5/16"	10'-9 9/16"	7/8X60	7.06	5.00	12'-0"	6'-3"	3'-0"	12 #8	#6	16.3	18.5			14'-0"	6'-6"	3'-0"	10 #7	16.7	25'-0"	3'-6"	12 #7	27.3
14NH	114,100	15,000	20'-9 3/8"	17'-11 15/16"	12'-0"	1X70	9.50	5.50	12'-0"	6'-3"	3'-0"	12 #8	#6	16.3	18.5			14'-0"	6'-6"	3'-0"	10 #7	16.7	25'-0"	3'-6"	12 #7	27.3
15NH	152,000	15,000	22'-9 3/8"	19'-8 3/4"	13'-1 13/16"	1X70	9.50	5.50	13'-0"	7'-3"	3'-0"	12 #8	#6	19.9	22.4			15'-0"	7'-3"	3'-0"	12 #8	20.1	30'-0"	4'-0"	12 #8	42.6
16NH	152,000	15,000	24'-9 3/8"	21'-5 9/16"	14'-3 11/16"	1X70	9.50	5.50	13'-0"	7'-3"	3'-0"	12 #8	#6	19.9	22.4			15'-0"	7'-3"	3'-0"	12 #8	20.1	30'-0"	4'-0"	12 #8	42.6



DWG REFERENCE

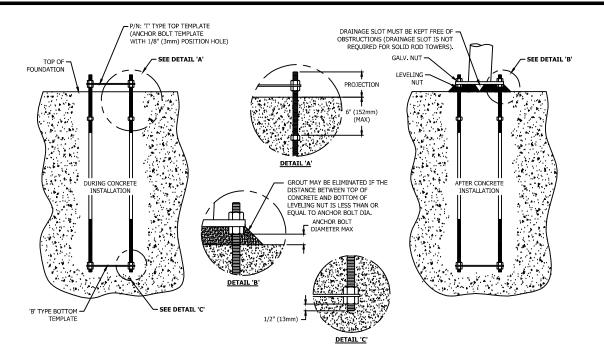




6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN

FOUNDATION STANDARD MODEL SSV TWR NH SERIES

DWN:	WDU	CHK'D:	GPW	DATE: Sep/	11/1987
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	,	(K			
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# ANCHOR BOLT INSTALLATION TOLERANCES

- FACE SPREAD DIMENSION CENTER-TO-CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2mm) OR 1/16"(2mm) PER 20 FT. (6m) OF FACE SPREAD.
- MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).
- 3. CONCRETE DIMENSIONS PLUS OR MINUS 1" (25mm). 4. DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
- DEPTH OF FOUNDATION PLUS 3" (76mm) OR MINUS 0
   DRILLED FOUNDATIONS OUT OF PLUMB 1.0 DEGREE.
- REINFORCING STEEL PLACEMENT PER A.C.I. 301.
- PROJECTION OF EMBEDMENTS PLUS OR MINUS 1/8" (3mm).
   VERTICAL EMBEDMENTS OUT OF PLUMB -1/2 DEGREE.
- MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS
  TO CENTERLINE OF FOUNDATION 1/24 OF PIER DIAMETER
  UP TO A MAXIMUM OF 2" (50mm).
- ANCHOR BOLT SPACING 1/16" (2mm).
- 11. ANCHOR BOLT CIRCLE ORIENTATION 1/4 DEGREE.
- ANCHOR BOLT CIRCLE DIAMETER PLUS OR MINUS 1/16" (2mm).

## !!! WARNING !!!

AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER.

# ANCHOR BOLT TIGHTENING NOTES

- NUTS, THREADS AND ALL NUT CONTACT SURFACES
  MUST BE CLEANED AND LUBRICATED AFTER
  CONCRETE INSTALLATION AND IMMEDIATELY
  BEFORE INSTALLATION OF LEVELING AND TOP
  NUTS. NUTS MUST BE FREE TO MOVE
  THROUGHOUT THE ENTIRE LENGTH OF THE
  ANCHOR BOLT THREAD PROJECTION.
- AFTER LEVELING THE LEVELING NUTS AND SETTING THE BASE PLATE, TOP NUTS MUST BE INSTALLED IN AN INCREMENTAL STAR TIGHTENING SEQUENCE TO A SNUG TIGHT CONDITION FOLLOWED BY TIGHTENING THE LEVELING NUTS IN A SIMILAR PATTERN TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED BY THE TIGHTNESS OBTAINED WITH THE EFFORT OF ONE PERSON WITH A 12 INCH NORMAL LENGTH WRENCH.
- AFTER ALL TOP AND LEVELING NUTS ARE
  TIGHTENED TO A SNUG TIGHT CONDITION, TOP
  NUTS SHALL BE FURTHER TIGHTENED IN AN
  INCREMENTAL STAR PATTERN WITH THE LEVELING
  NUTS SECURED TO RESULT IN A 1/3 TOP NUT
  ROTATION FOR ANCHOR BOLTS 1-1/2 INCHES OR
  LESS IN DIAMETER, OR a 1/6 TOP NUT ROTATION
  FOR ANCHOR BOLTS GREATER THAN 1-1/2 INCHES
  IN DIAMETER

# NOTES

- ALL ANCHOR BOLTS MUST MEET OR EXCEED
   REQUIREMENTS OF A.S.T.M. F1554-S2, S5 GRADE
   105
- GROUT TO BE 5000 PSI MIN. ULTIMATE STRENGTH/7
- DAY NON-SHRINKING AND NON-METALLIC.

  3. SPECIAL CARE MUST BE TAKEN WHEN LIFTING ANCHOR BOLT CLUSTER, IN ORDER TO PREVENT ANCHOR BOLT TEMPLATE DISTORTION.
- ANCHOR BOLT ASSEMBLY MUST BE ADEQUATELY SUPPORTED AND RESTRAINED TO PREVENT MOVEMENT OF THE CLUSTER DURING CONCRETE INSTALLATION.
- 5. IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIEY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.
- 6. IT IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.

# !! WARNING !!

PRIOR TO PLACING CONCRETE:
CHECK THAT THE TEMPLATE
ANCHOR BOLT CIRCLE MATCHES
THE ANCHOR BOLT CIRCLE SHOWN
ON THE STRUCTURE DRAWING.
CALL ROHN (309)-566-3000 FOR
ANY DISCREPANCY.

FILE NO.

REVISIONS

REV.

DESCRIPTION

DWN CHK APP

RODECTION

4

OATE: 01/30/14

DATE: 01/30/14



PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT

ANCHOR BOLT LAYOUTS FOR 5/8", 3/4", 7/8", & 1" ANCHOR BOLTS

DWN:	CHK'D:		DATE:		
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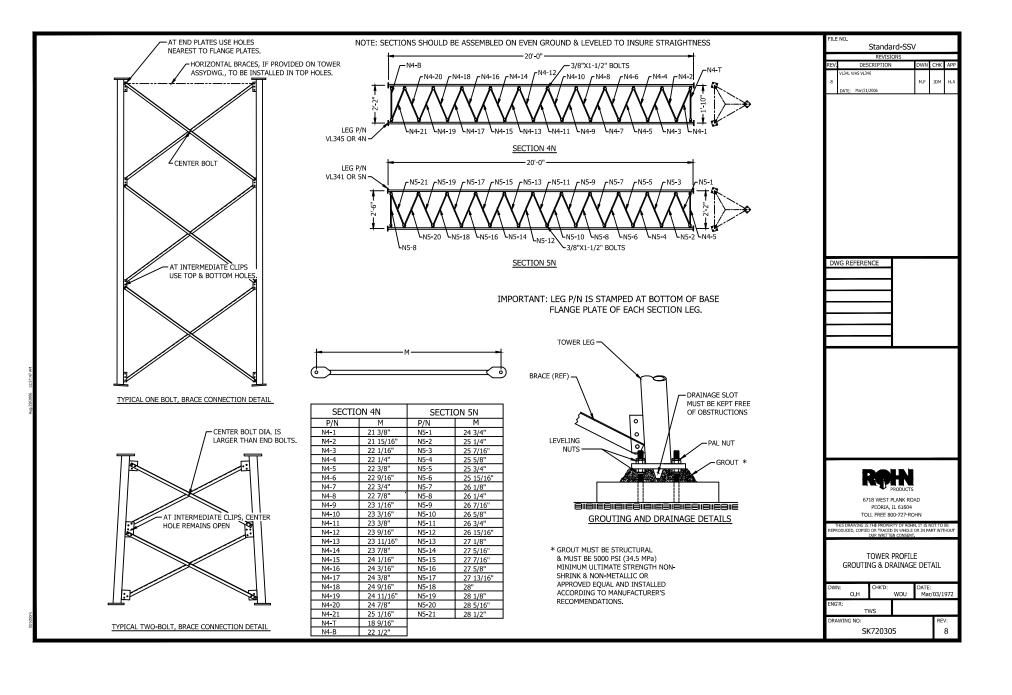
# **STANDARD FOUNDATION NOTES**

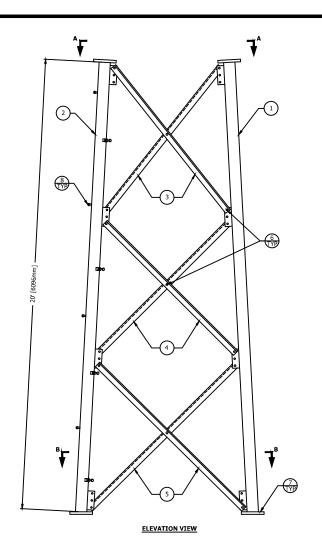
- FOUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA/EIA/-222-F, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 7, FOR "NORMAL" SOIL CONDITIONS. "NORMAL" SOIL IS DEFINED AS DRY, COHESIVE SOIL WITH AN ALLOWABLE NET VERTICAL BEARING CAPACITY OF 4000 PSF (192 kPa) AND AN ALLOWABLE NET HORIZONTAL PRESSURE OF 400 PSF PER LINEAL FOOT OF DEPTH (62.8 kPa) PER LINEAL METER OF DEPTH) TO A MAXIMUM OF 4000 PSF (192 kPa).
- 2. THE PURCHASER MUST VERIFY THAT ACTUAL SITE SOIL PARAMETERS MEET OR EXCEED E.I.A. "NORMAL" SOIL PARAMETERS AND THAT THE DEPTH OF STANDARD FOUNDATIONS ARE ADEQUATE BASED ON THE FROST PENETRATION AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE SITE. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT "NORMAL" SOIL PARAMETERS ARE NOT APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOLURTERED.
- FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
- 4. WORK SHALL BY IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INITIAL 14TION.
- ANCHOR BOLTS SHALL MEET OF EXCEED THE REQUIREMENTS OF ASTM F1554-52, S5 GRADE 105
  AND SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (FULL EFFORT OF A MAN USING AN
  ORDINARY SPUD WRENCH).
- 6. NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL ANCHOR BOLTS.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- B. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABLILTY REQUIREMENT OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI (31.0 MPa) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION
  METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM
  SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF
  CONSOLIDATION SICH AS VIBRATING WILL PREVENT HONEYCOMES OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- 11. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE.
- 12. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) MINIMUM COVER ON REINFORCEMENT.

- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAUSIONS
- 16. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 mm) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (16 kN/m3).
- 17. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
- 18. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- 19. FOR FOUNDATION AND ANCHOR TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- 20. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE
  MATERIALS AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY
  OF THE FOLINDATION
- 22. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER
- 23. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OF PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKETI.
- 24. CONSTRUCTION JOINTS, IF REQUIRED IN PIER MUST BE AT LEAST 12 INCHES (305 mm) BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 mm). FOUNDATION DESIGN ASSUMES TO OTHER CONSTRUCTION JOINTS.
- 25. TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- 26. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm X 19 mm) MINIMUM.
- 27. FOR ANCHOR BLOCK TYPE FOUNDATIONS, FOR GUYED TOWERS, THE PORTION OF ALL STEEL ANCHORS, FROM TOP OF ANCHOR BLOCK TO GROUND LEVEL, SHALL BE COATED WITH BITUMEN. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

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	PO BO PEORIA, IL I TOLL FREE 81	PRODUCTS  X 5999 61601-599 00-727-RO PY OF ROHN. IN WHOLE O N CONSENT.  PATION LLATIC  HA  SHEET #	DATE  6/	)TES :: '17/19	
DW	PO BO PECRIA, IL TOLL FREE 8/8	PRODUCTS  X 5999 61601-599 00-727-RO PY OF ROHN. IN WHOLE O N CONSENT.  PATION ALLATIC  HA  SHEET #	DATE 6/	)TES :: '17/19	
DW	PO BO PEORIA, IL I TOLL FREE 81	PRODUCTS  X 5999 61601-599 00-727-RO PY OF ROHN. IN WHOLE O N CONSENT.  PATION LLATIC  HA  SHEET #	DATE 6/	)TES :: '17/19	
DW ENG	PO BO PECRIA, IL TOLL FREE 8/8	PRODUCTS  X 5999 61601-599 00-727-RO PY OF ROHN. IN WHOLE O N CONSENT.  PATION ALLATIC  HA  SHEET #	DATE 6/	)TES :: '17/19	84

FILE NO.





FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	6" X 6" X 3/4" (P/N: 6C)	12'-7 1/4" [3842mm]
воттом	1/4" [6mm]	3 1/3° STD	7" X 7" X 1" (P/N: 7A)	14'-7 7/8" [4467mm]

	SEC	ΓΙΟ	N ASSEMBLY P/N: 11N	1332									
	BILL OF MATERIAL												
ITEM PART NO. QTY DESCRIPTION													
1	VL2785	2	LEG SSV 9-11N 3STD 20' 6 7BASE	[PIPE 76mm STD]									
2	VL2785S	1	LEG SSV 9-11N 3STD 20' 6 7BASE	[PIPE 76mm STD]									
3	N111	6	BRACE DS SS11T L2.5X 19X14.04'	[L 64x64x5]									
4	N112	6	BRACE DS SS11T L2.5X.19X14.64'	[L 64x64x5]									
5	N113	6	BRACE DS SS11T L2.5X 19X15.16'	[L 64x64x5]									
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]									
7	110163	12	NUT 7/8 ( JAM - PAL ) HDG	[M22]									
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]									

- GENERAL NOTES:

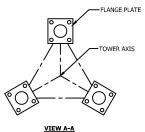
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

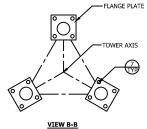
  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

  3. THIS SECTION IS A BASE SECTION, SEE THE TOWER ASSEMBLY FOR ANCHOR BOLTS, PAL NUTS ARE SUPPLIED FOR THE ANCHOR BOLTS,

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.





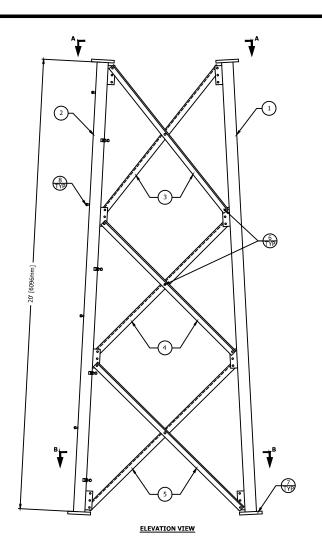


FILE NO.

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

SECTION ASSEMBLY DETAILS FOR SSV BASE 11N332

DWN:		CHK'D:		DATE:	
	CMH		KTL	June/	23/2004
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FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	10'-6 3/4" [3219mm]
воттом	1/4" [6mm]	N/A	6" X 6" X 3/4" (P/N: 6A)	12'-7 1/4" [3842mm]

	SECTION ASSEMBLY P/N: 10NH											
	BILL OF MATERIAL											
ITEM PART NO. QTY DESCRIPTION												
1	VL351	2	LEG SSV 9-11N 2.5EH 20' 5 6OF	[PIPE 64mm EH]								
2	VL351S	1	LEG SSV 9-11N 2.5EH 20' 5 6OF	[PIPE 64mm EH]								
3	N101	6	BRACE DS SS10T L2X.13X12.29'	[L 51x51x3								
4	N102	6	BRACE DS SS10T L2X.13X12.86'	[L 51x51x3]								
5	N103	6	BRACE DS SS10T L2X 13X13 35'	[L 51x51x3]								
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]								
7	210050GA	12	BOLT ASSY 3/4 X 2-3/4 HSB A325	[M19x70]								
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]								

- GENERAL NOTES:

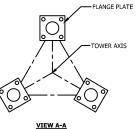
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

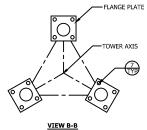
  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

  3. FLANCE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.





SECTION ASSEMBLY DETAILS FOR SSV 10NH

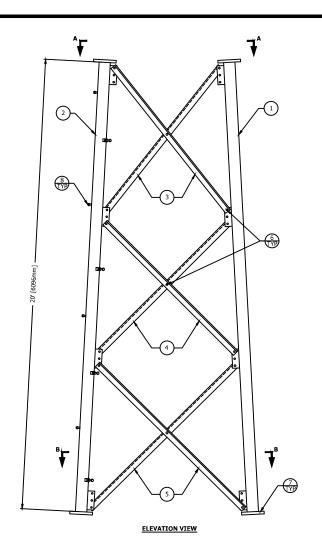
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FILE NO.



PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

VN:	AED	CHK'D:	HSK	DATE: Nov	/2/1978
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J. EN	G'R:		PRJ. MA	NG'R:	
AVACE	IC NO:				DEV/



FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	8'-6 3/4" [2610mm]
BOTTOM	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	10'-6 3/4" [3219mm]

	SECTION ASSEMBLY P/N: 9NH BILL OF MATERIAL							
ITEM	ITEM PART NO. QTY DESCRIPTION							
1	VL350	2	LEG SSV 9-11N 2.5EH 20' 5 5 S9	[PIPE 64mm EH]				
2	VL350S	1	LEG SSV 9-11N 2.5EH 20' 5 5 S9	[PIPE 64mm EH]				
3	N91	6	BRACE DS SS9T L1 75X 13X10.63'	[L 44x44x3]				
4	N92	6	BRACE DS SS9T L1.75X.13X11.17'	[L 44x44x3]				
5	N93	6	BRACE DS SS9T L1.75X.13X11.61'	[L 44x44x3]				
6	210017GA	45	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]				
7	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]				
8	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]				

- GENERAL NOTES:

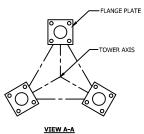
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

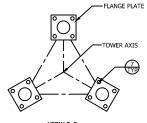
  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

  3. FLANCE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

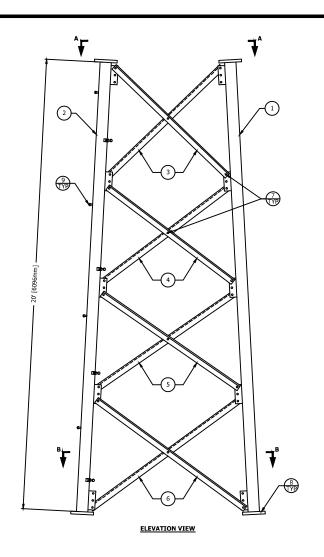




VIEW B-B

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		SECTION	ASSEME	LY		
		ETAILS FO				
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ENG	'R:		SHEET #			
DD.	ENG'R:	TWS	PRJ. MAI	1 OF	1	
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FILE NO.



FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	6'-6 3/4" [2000mm]
BOTTOM	N/A	N/A	5" X 5" X 3/4" (P/N: 5C)	8'-6 3/4" [2610mm]

	SECTION ASSEMBLY P/N: 8N							
	BILL OF MATERIAL							
ITEM	ITEM PART NO. QTY DESCRIPTION							
1	VL349	2	LEG SSV 8N 2.5STD 20' 5 5	[PIPE 64mm STD]				
2	VL349S	1	LEG SSV 8N 2.5STD 20' 5 5	[PIPE 64mm STD]				
3	N81	6	BRACE DS SS8T L1.5X.13X7.95'	[L 38x38x3]				
4	N82	6	BRACE DS SS8T L1.5X.13X8.36'	[L 38x38x3]				
5	N83	6	BRACE DS SS8T L1.5X.13X8.79'	[L 38x38x3]				
6	N84	6	BRACE DS SS8T L1.5X.13X9.11'	[L 38x38x3]				
7	210017GA	60	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]				
8	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]				
9	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]				

- GENERAL NOTES:

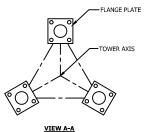
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

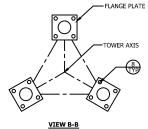
  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

  3. FLANCE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.





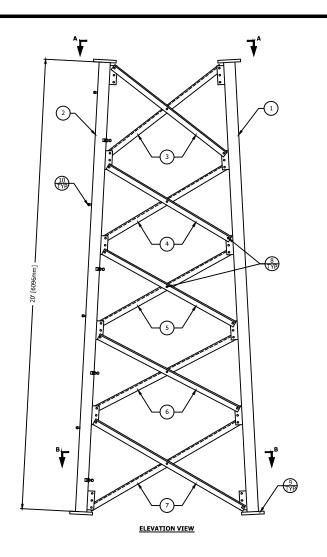


FILE NO.

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

SECTION ASSEMBLY DETAILS FOR SSV 8N

DWN:		CHK'D:		DATE:	
	AED		MDI	Oct/:	28/1978
ENG'R:			SHEET #	11	
	T\	NS	1 OF 1		
PRJ. EN	G'R:		PRJ. MANG'R:		
DRAWI	NG NO:				REV:
	Α	78025	2		3



FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	5" X 5" X 3/4" (P/N: 5A)	4'-6 1/4" [1378mm]
воттом	1/4" [6mm]	N/A	5" X 5" X 3/4" (P/N: 5B)	6'-6 3/4" [2000mm]

	SECTION ASSEMBLY P/N: 7N BILL OF MATERIAL							
ITEM	TEM PART NO. QTY DESCRIPTION							
1	VL348	2	LEG SSV 6-7N 2STD 20' 5 5OFF	[PIPE 51mm STD]				
2	VL348S	1	LEG SSV 6-7N 2STD 20' 5 5OFF	[PIPE 51mm STD]				
3	N71	6	BRACE DS SS7T L1.5X 13X5.71'	[L 38x38x3]				
4	N72	6	BRACE DS SS7T L1.5X.13X6.03'	[L 38x38x3]				
5	N73	6	BRACE DS SS7T L1.5X.13X6.35'	[L 38x38x3]				
6	N74	6	BRACE DS SS7T L1.5X.13X6.69'	[L 38x38x3]				
7	N75	6	BRACE DS SS7T L1.5X.13X6.92'	[L 38x38x3]				
8	210017GA	75	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]				
9	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]				
10	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]				

- GENERAL NOTES:

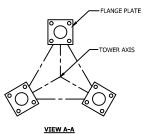
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

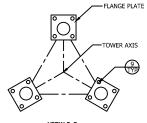
  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

  3. FLANCE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.





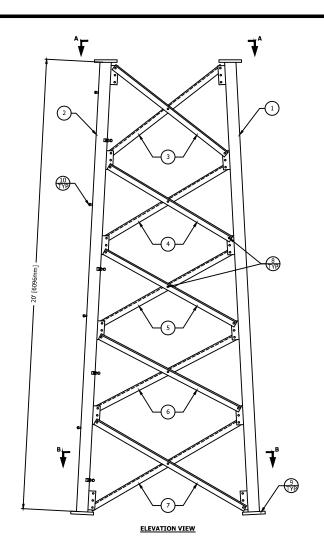
VIEW B-B

FILE NO.					
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	SECTION ASS	FMR	ΙY		
	DETAILS FOR				
			DATE		

SHEET #: 1 OF 1

DRAWING NO:

A780139



<u>FLANGE</u>	<u>OFFSET</u>	BEVEL	FLANGE PLATE (P/N)	<u>SPREAD</u>
TOP	N/A	3 1/3° REV	4 1/2" X 4 1/2" X 5/8" (P/N: VL906)	2'-6" [762mm]
воттом	N/A	N/A	5" X 5" X 3/4" (P/N: 5A)	4'-6 1/4" [1378mm]

	SECTION ASSEMBLY P/N: 6N BILL OF MATERIAL							
ITEM	ITEM PART NO. QTY DESCRIPTION							
1	VL347	2	LEG SSV 6N 2STD 20' 45BEV 5	[PIPE 51mm STD]				
2	VL347S	1	LEG SSV 6N 2STD 20' 45BEV 5	[PIPE 51mm STD]				
3	N61	6	BRACE DS SS6T L1.5X.13X4.39'	[L 38x38x3]				
4	N62	6	BRACE DS SS6T L1.5X.13X4.61'	[L 38x38x3]				
5	N63	6	BRACE DS SS6T L1.5X.13X4.86'	[L 38x38x3]				
6	N64	6	BRACE DS SS6T L1.5X.13X5.14'	[L 38x38x3]				
7	N65	6	BRACE DS SS6T L1.5X.13X5.28'	[L 38x38x3]				
8	210017GA	75	BOLT ASSY 1/2 X 1-1/4 HSB A325	[M13x32]				
9	210033GA	12	BOLT ASSY 5/8 X 2-1/2 HSB A325	[M16x64]				
10	5/8STEP	16	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]				

- GENERAL NOTES:

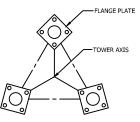
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

  2. STEP BOLTS ARE PROVIDED ON 1 LEG ONLY.

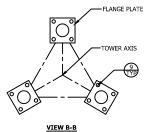
  3. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTIOE FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY PORNA PRODUCTS. BY ROHN PRODUCTS.







SECTION ASSEMBLY DETAILS FOR SSV 6N

	DWN:	AED	CHK'D:	WDU	DATE: Oct/:	18/1978
	ENG'R:	T	NS	SHEET #	t: 1 OF 1	
	PRJ. EN	G'R:		PRJ. MANG'R:		
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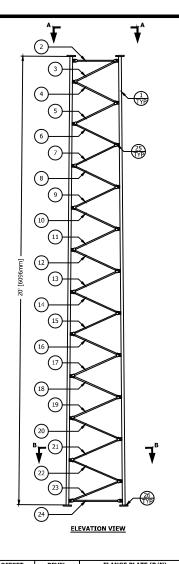
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FILE NO.

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

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OUR WRITTEN CONSENT.	

AED	CIKD:	WDU Oct/18/1978		
ENG'R:		SHEET #:		
T\	NS	1 OF 1		
PRJ. ENG'R:	PRJ. MANG'R:			
DRAWING NO:				REV:
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BRACING DETAIL

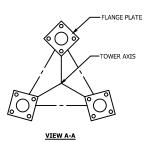
- 1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

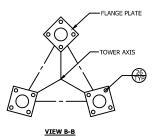
  1. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  3. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  4. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

	SECTION ASSEMBLY P/N: 5N								
	BILL OF MATERIAL								
ITEM	PART NO.	QTY	DESCRIPTION	N					
1	VL341	3	LEG SSV 5N/5NST 1.44SR 20' 45	[BAR RND 37mm SR]					
2	N45	3	BRACE DIAG SSV RD BAR .63X1.98	[BAR RND 16mm]					
3	N51	3	BRACE DIAG SSV RD BAR .63X2.18	[BAR RND 16mm]					
4	N52	3	BRACE DIAG SSV RD BAR .63X2.22	[BAR RND 16mm]					
5	N53	3	BRACE DIAG SSV RD BAR .63X2.23	[BAR RND 16mm]					
6	N54	3	BRACE DIAG SSV RD BAR .63X2.25	[BAR RND 16mm]					
7	N55	3	BRACE DIAG SSV RD BAR .63X2.26	[BAR RND 16mm]					
8	N56	3	BRACE DIAG SSV RD BAR .63X2.28	[BAR RND 16mm]					
9	N57	3	BRACE DIAG SSV RD BAR .63X2.29	[BAR RND 16mm]					
10	N58	3	BRACE DIAG SSV RD BAR .63X2.30	[BAR RND 16mm]					
11	N59	3	BRACE DIAG SSV RD BAR .63X2.31	[BAR RND 16mm]					
12	N510	3	BRACE DIAG SSV RD BAR .63X2.33	[BAR RND 16mm]					
13	N511	3	BRACE DIAG SSV RD BAR .63X2.34	[BAR RND 16mm]					
14	N512	3	BRACE DIAG SSV RD BAR .63X2.36	[BAR RND 16mm]					
15	N513	3	BRACE DIAG SSV RD BAR .63X2.38	[BAR RND 16mm]					
16	N514	3	BRACE DIAG SSV RD BAR .63X2.39	[BAR RND 16mm]					
17	N515	3	BRACE DIAG SSV RD BAR .63X2.40	[BAR RND 16mm]					
18	N516	3	BRACE DIAG SSV RD BAR .63X2.42	[BAR RND 16mm]					
19	N517	3	BRACE DIAG SSV RD BAR .63X2.43	[BAR RND 16mm]					
20	N518	3	BRACE DIAG SSV RD BAR .63X2.45	[BAR RND 16mm]					
21	N519	3	BRACE DIAG SSV RD BAR .63X2.46	[BAR RND 16mm]					
22	N520	3	BRACE DIAG SSV RD BAR .63X2.47	[BAR RND 16mm]					
23	N521	3	BRACE DIAG SSV RD BAR .63X2.49	[BAR RND 16mm]					
24	N58	3	BRACE DIAG SSV RD BAR .63X2.30	[BAR RND 16mm]					
25	210008GA	72	BOLT ASSY 3/8 X 1-1/2 HCS G5	[M10x38]					
26	210032GA	12	BOLT ASSY 5/8 X 2-1/4 HSB A325	[M16x57]					







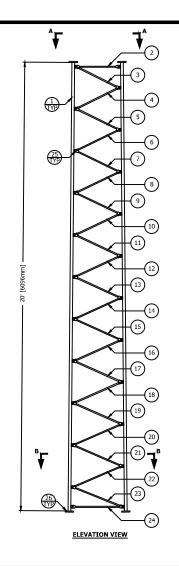
FILE NO.

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

SECTION ASSEMBLY DETAILS FOR SSV 5N

DWN:	AED	CHK'D:	JD	DATE: Mar/22/197		
ENG'R:	T	NS	SHEET #: 1 OF 1			
PRJ. ENG	ïR:		PRJ. MA	NG'R:		
DRAWIN	G NO:				REV:	
	Α	790119	€		5	

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: VL901)	2'-2" [660mm]
BOTTOM	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: VL901)	2'-6" [762mm]
		-		



BRACING DETAIL

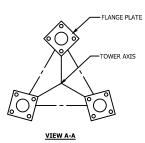
- 1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

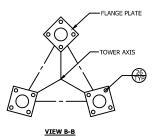
  1. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.

  3. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  4. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

	SECTION ASSEMBLY P/N: 4N								
	BILL OF MATERIAL								
ITEM PART NO. QTY DESCRIPTION									
1	VL345	3	LEG SSV 4N 1.25SR 20' 4 45	[BAR RND 32mm SR]					
2	N4T	3	BRACE H SSV RD BAR .63X1.66'	[BAR RND 16mm]					
3	N41	3	BRACE DIAG SSV RD BAR .63X1.90	[BAR RND 16mm]					
4	N42	3	BRACE DIAG SSV RD BAR .63X1.94	[BAR RND 16mm]					
5	N43	3	BRACE DIAG SSV RD BAR .63X1.95	[BAR RND 16mm]					
6	N44	3	BRACE DIAG SSV RD BAR .63X1.97	[BAR RND 16mm]					
7	N45	3	BRACE DIAG SSV RD BAR .63X1.98	[BAR RND 16mm]					
8	N46	3	BRACE DIAG SSV RD BAR .63X1.99	[BAR RND 16mm]					
9	N47	3	BRACE DIAG SSV RD BAR .63X2.01	[BAR RND 16mm]					
10	N48	3	BRACE DIAG SSV RD BAR .63X2.02	[BAR RND 16mm]					
11	N49	3	BRACE DIAG SSV RD BAR .63X2.04	[BAR RND 16mm]					
12	N410	3	BRACE DIAG SSV RD BAR .63X2.05	[BAR RND 16mm]					
13	N411	3	BRACE DIAG SSV RD BAR .63X2.06	[BAR RND 16mm]					
14	N412	3	BRACE DIAG SSV RD BAR .63X2.08	[BAR RND 16mm]					
15	N413	3	BRACE DIAG SSV RD BAR .63X2.09	[BAR RND 16mm]					
16	N414	3	BRACE DIAG SSV RD BAR .63X2.10	[BAR RND 16mm]					
17	N415	3	BRACE DIAG SSV RD BAR .63X2.12	[BAR RND 16mm]					
18	N416	3	BRACE DIAG SSV RD BAR .63X2.13	[BAR RND 16mm]					
19	N417	3	BRACE DIAG SSV RD BAR .63X2.15	[BAR RND 16mm]					
20	N418	3	BRACE DIAG SSV RD BAR .63X2.16	[BAR RND 16mm]					
21	N419	3	BRACE DIAG SSV RD BAR .63X2.17	[BAR RND 16mm]					
22	N420	3	BRACE DIAG SSV RD BAR .63X2.19	[BAR RND 16mm]					
23	N421	3	BRACE DIAG SSV RD BAR .63X2.20	[BAR RND 16mm]					
24	N4B	3	BRACE H SSV RD BAR .63X1.99'	[BAR RND 16mm]					
25	210008GA	72	BOLT ASSY 3/8 X 1-1/2 HCS G5	[M10x38]					
26	210032GA	12	BOLT ASSY 5/8 X 2-1/4 HSB A325	[M16x57]					







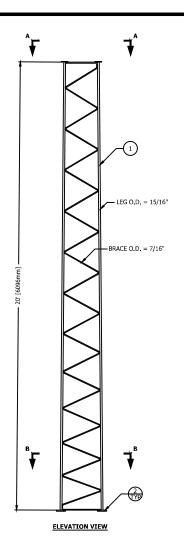
FILE NO.

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

SECTION ASSEMBLY DETAILS FOR SSV 4N

DWN:	CHK'D:		DATE:	
AED		RAM	Mar/	17/1979
ENG'R:		SHEET #		
T\	NS	1 OF 1		
PRJ. ENG'R:		PRJ. MA	NG'R:	
DRAWING NO:				REV:
Α	790110	)		4

TOP N/A N/A 4" X 4" X 1/2" (P/N: 4A) 1'-10" [559mm]  BOTTOM N/A N/A 4 1/2" X 4 1/2" X 5/8" (P/N: 45A) 2'-2" [660mm]	<u>FLANGE</u>	<u>OFFSET</u>	BEVEL	FLANGE PLATE (P/N)	SPREAD
BOTTOM N/A N/A 4 1/2" X 4 1/2" X 5/8" (P/N: 45A) 2'-2" [660mm]	TOP	N/A	N/A	4" X 4" X 1/2" (P/N: 4A)	1'-10" [559mm]
	BOTTOM	N/A	N/A	4 1/2" X 4 1/2" X 5/8" (P/N: 45A)	2'-2" [660mm]



FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	1/2° REV	3" X 3" X 3/8" (P/N: 3A)	1'-6" [457mm]
BOTTOM	N/A	1/2° STD	4" X 4" X 1/2" (P/N: 4C)	1'10" [559mm]

	SECTION ASSEMBLY P/N: 3WN							
	BILL OF MATERIAL							
ITEM	PART NO.	QTY	DESCRIPTION					
1	VS3	1	SECTION 20' 3WN WELDED HDG					
2	210020GA	12	BOLT ASSY 1/2 X 2 HSB A325	[M13x51]				

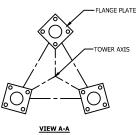
- GENERAL NOTES:

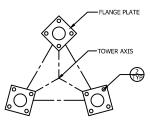
  1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.

  2. FLANCE BOLTS ARE FOR FLANCE PLATES AT THE BOTTOM OF THE SECTION.

  3. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.

  4. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



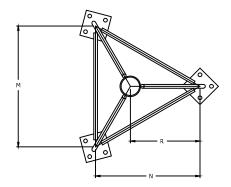


VIEW B-B

DATE: Oct/30/2012  PRODUCTS PO BOX 5999 PEORIA, IL 61601-5999 TO BOX 5999 PEORIA (IL 61601-5999) TO BOX 5999 PEORIA (IL 61601-5999) TO BOX 5999 TO BOX	FILE	NO.					
REPRODUCTS PO BOX 5999 TOUR FEE 800-272-ROTHS PERSONUCED, COPIED OR TRACES IN PRIOR SET PART TO BE REPRODUCED, COPIED OR TRACES IN PRIOR SET PART TO BE REPRODUCED, COPIED OR TRACES IN PRIOR SET PART THROUGHT TO THE PROPRIETS OR ROBERT IN PRIOR SET PART THROUGHT TO THE PROPRIETS OR ROBERT IN PRIOR SET PART THROUGHT TO BE REPRODUCED, COPIED OR TRACES IN PRIOR SET PART THROUGHT TO BE REPRODUCED, COPIED OR TRACES IN PRIOR SET PART THROUGHT TO BE REPRODUCED, COPIED OR TRACES IN PRIOR SET PART THROUGHT TO BE REPRODUCED.  DVM: AED CHICA:  CHIC			REVISI	ONS			
ATTE: OCU/30/2012  PRODUCTS PO BOX 5999 PEORIA, IL 61601-5999 TO BOX 5999 PEORIA (E 161601-5999) TO BOX 5999 PEORIA (E 161601-599) PEORIA (E 161601-5999) TO	REV.	DES	CRIPTION		DWN	CHK	APP
DATE: Oct/30/2012  PRODUCTS PO BOX 5999 PEORIA, IL 61601-5999 TO BOX 5999 PEORIA (IL 61601-5999) TO BOX 5999 PEORIA (IL 61601-5999) TO BOX 5999 TO BOX	6	REDRAWN			160	1DM	на
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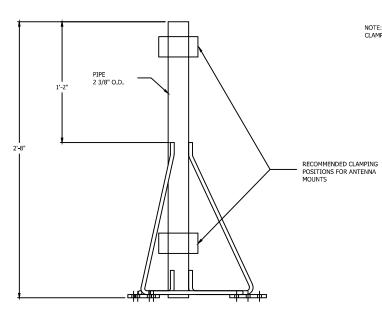
DRAWING NO:

A790097



	TAPERED TOP ASSY BILL OF MATERIALS DETAIL										
	TOWER SEC.	FLANGE PLATE FLANGE BOLTS									
ASSY P/N	NUMBER	М	N	R	SIZE	QTY	SIZE	P/N			
1TT	1W, 1WB, 2W	1'-2"	1'-0 1/8"	0'-8 1/16"	3 X 3 X 3/8	9	3/8 X 1-1/2	210008GA			
3TT	2WST, 2WB, 3WN	1'-6"	1'-3 9/16"	0'-10 3/8"	3 X 3 X 3/8	9	3/8 X 1 <b>-</b> 1/2	210008GA			
4TTN	3WNST, 3WNB, 4N	1'-10"	1'-7 1/16"	1'-0 11/16"	4 X 4 X 1/2	9	1/2 X 2	210020GA			
5TTN	4NST, 4NA, 4WB, 4NC, 5N	2' <del>-</del> 2"	1'-10 1/2"	1'-3"	4-1/2 X 4-1/2 X 5/8	9	5/8 X 2-1/4	210032GA			
6TT	5NST, 5NA, 5NB, 5NC, 6N	2'-6"	2'-2"	1'-5 5/16"	4-1/2 X 4-1/2 X 5/8	9	5/8 X 2-1/4	210032GA			

FILE	NO.						
REVISIONS							
REV.	DESCRIPTION	DWN	CHK	APP			
	UPDATED TO NEW STANDARDS						
12		JEC	KTL	DWG			
	DATE: 07/29/11						
1							



NOTE: DESIGN BASED ON THRUST OF 500# AT CLAMPING POSTIONS

PRODUCTS

PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE EPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

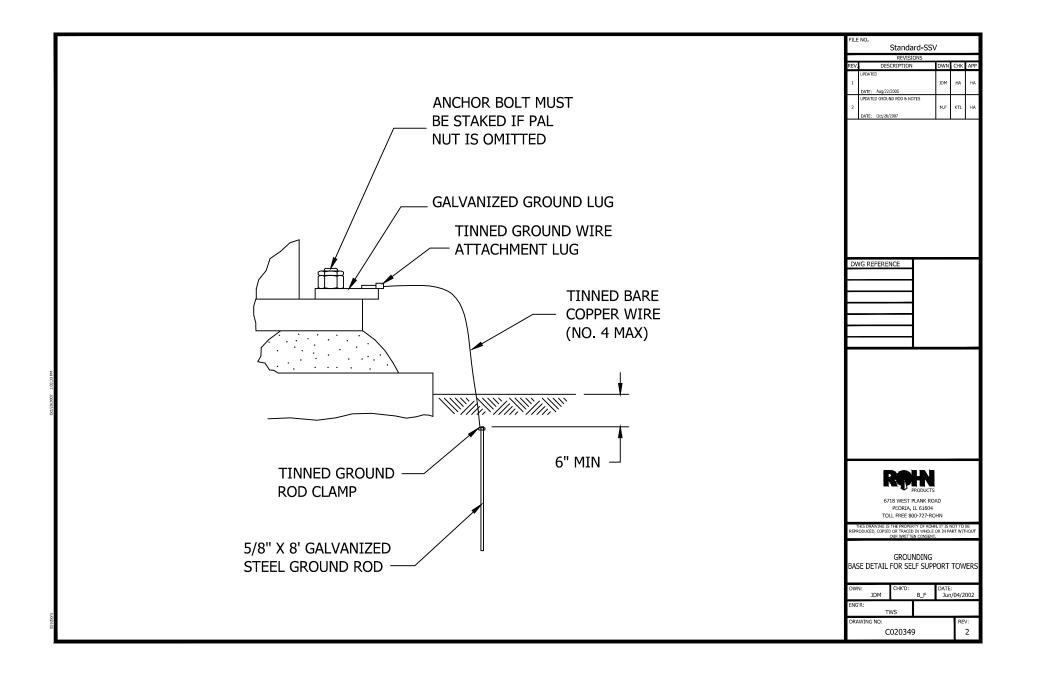
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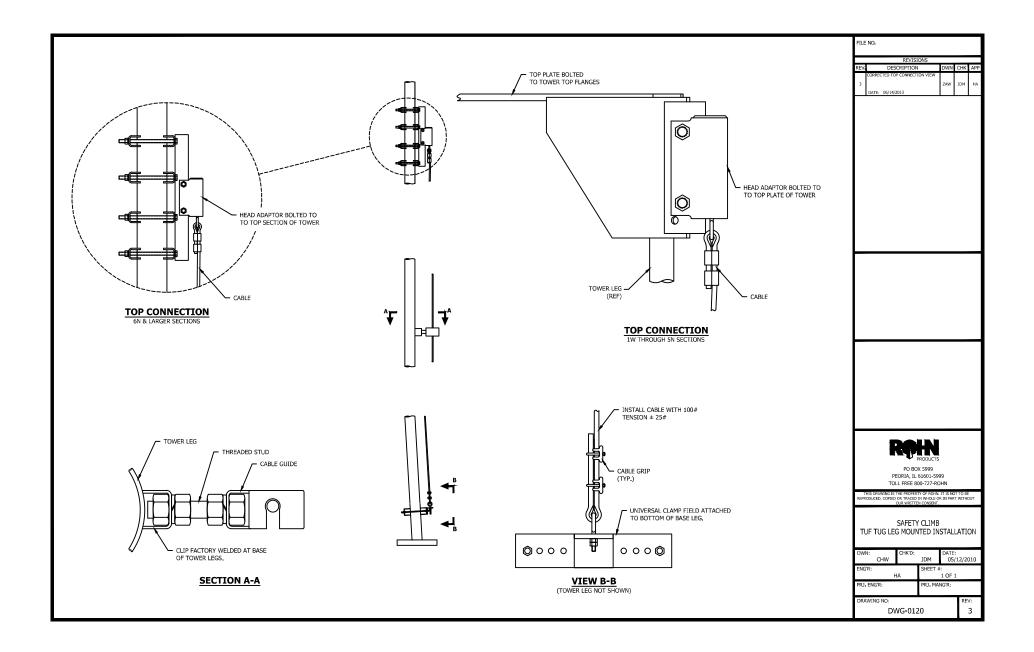
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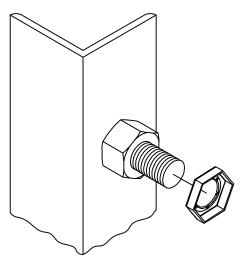




# ASSEMBLY BOLT INSTALLATION 1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING. 2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES.

# **PAL NUT INSTALLATION**

 PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED.



REV.	DES	REVIS CRIPTION	1	DWN	CHK
	CHANGE NOTAT	ION.			
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