02SR028

EHRESMANN ENGINEERING, INC. CONSULTING ENGINEERS

4400 WEST 31st STREET YANKTON, SOUTH DAKOTA 57078

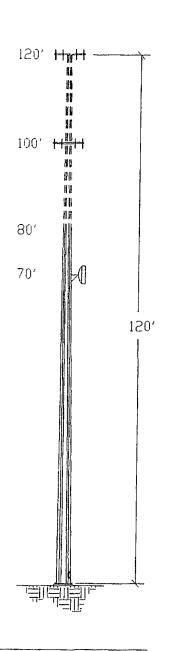
PH: 605-665-7532 OR FAX: 605-665-9780

REV. P2110 J.O. STRESS SPULE 5/2/02 DATE PAGE 80 MPH WIND ICE & 1/2 SITE RAPID CITY, SD MODEL EEI 80 EXTI 20 MP 807 EXT TO 120' HEIGHT

BY: WBW

OPTION 1 PROPOSED EXTENDABLE MONOPOLL

- PROPOSED ANTENNAS
- 80 MPH WITH NO ICE
- 80 MPH WITH 1/2" ICE (REDUCTION ALLOWED)
- DESIGNED PER TIA/EIA-222-F



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ELEV.	ITEM	RAD.	AZ.	LINE
	ON 14' LOW PRUFILE PLATFORM			(12) 1 1/4"
	ON 14' LOW PROFILE PLATFORM			(12) 1 1/4"
70' 4' HP DISH				EW220

MAXIMUM	BASE MOMFNT	& FORCES
MOMENT (FT-KIPS)	SHEAR (KIPS)	AXIAL (KIPS)
1209.65	16.86	16.63

PRFI IMINARY FOUNDATION DESIGN						
PIER DIAMETER	DEPTH	VERTICAL BARS (GR 60)	HORZ. TIES	CONCRETE (CU YDS)		
6'-0" Ø	20 FT	(30) #9	(21) #4	21.5		

NOTES:

- 1. POLE DESIGNED ACCORDING TO TIA/EIA-222-F.
- 2. ANTENNA LOADS FROM MANUFACTURING SPEC-IFICATIONS AND ANDREWS BULLETIN 1015F.
- 3. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY, A.W.S. D 1.1-82.
- 4. ALL POLE MEMBERS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO ASTM A123.
- 5. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE, ASTM A153.
- 6. BOLTS
 A.BOLTS IN TENSION ASTM A325
 B.STEP BOLTS ASTM A307

PRELIMINARY

IF THIS TOWER AND FOUNDATIONS WERE NOT FABRICATED, INSTALLED OR MAINTAINED IN ACCORDANCE WITH THIS ANALYSIS AND SPECIFICATION, OUR DESIGN AND/OR CERTIFICATION IS INVALID AND EED DISCLAIMS ANY RESPONSIBILITY FOR THIS STRUCTURE IN ITS ENTIRETY.