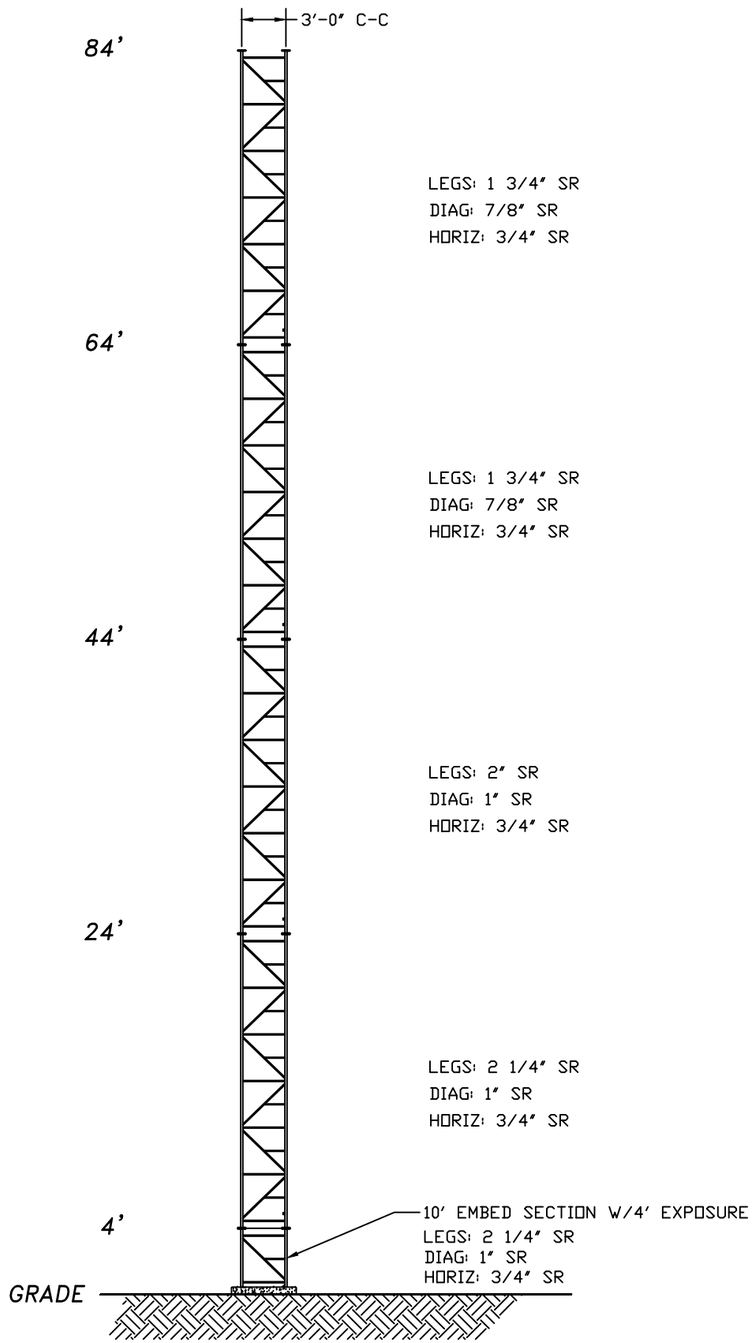


TOWER DESIGN CRITERIA:

- DESIGN PER TIA-222-G
- 90 MPH WIND & NO ICE (Vasd)
- (Vult = 116 MPH WIND)
- 40 MPH WIND & 3/4" ICE (Vasd)
- 60 MPH WIND & NO ICE (SERVICE)
- STRUCTURAL CLASS II
- EXPOSURE CATEGORY C
- TOPOGRAHIC CATEGORY 1
- SEISMIC DESIGN CATEGORY - TBD
- SITE CLASS - TBD

NOTES:

1. TOWER LEGS SHALL BE 50 KSI. ALL OTHER STEEL SHALL BE ASTM A36 MINIMUM.

SITE INFORMATION:

COORDINATES: LATITUDE: 38.249455 N
LONGITUDE: 97.061552 W

ADDRESS: TBD
TBD

COUNTY: MARION COUNTY, KANSAS

PRELIMINARY

MAXIMUM BASE MOMENT & FORCES		
MOMENT (FT-KIPS)	SHEAR (KIPS)	AXIAL (KIPS)
231	4.029	5.354

DESIGN LOADING:

ELEV.	ITEM	RAD.	FEED LINE
80'	18" EEI V-BOOM	———	(5) CAT 5
80'	(4) C050900D021A	———	
80'	(4) C050900P931A RADIO	———	
80'	(4) C050900D020A	———	
80'	2' ROCKET DISH (RD-5G30)	———	
75'	(4) MT006S13VH/RB	———	(4) CAT 5
75'	(4) REDLINE RDL-3000 XP RADIO	———	

REV	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1		
0	DRAWING CREATED	10/16/19

	NAME
DRAWN BY:	MW
CHECKED BY:	
ENG APPR.	
MFG APPR.	
Q.C.	

Site: NEK-MA2, KS

Job# 104860

Ehresmann Engineering, Inc.
4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

TITLE: 84' W3600 STUB TOWER

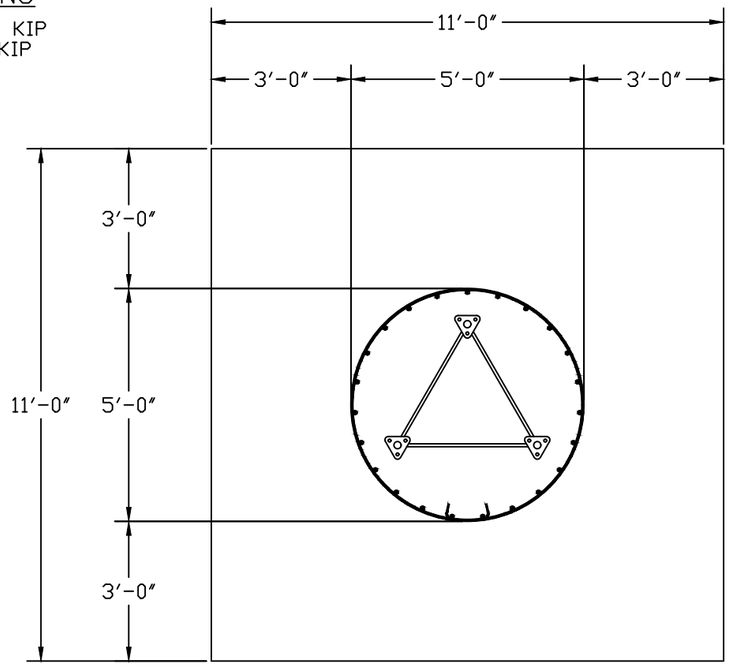
DWG. NO. 104860C1

Sheet NO. C1

Rev. 1A

DESIGN REACTIONS

TOTAL SHEAR = 4.029 KIP
AXIAL LOAD = 5.354 KIP
OTM = 231 FT KIPS



PLAN VIEW

PRELIMINARY

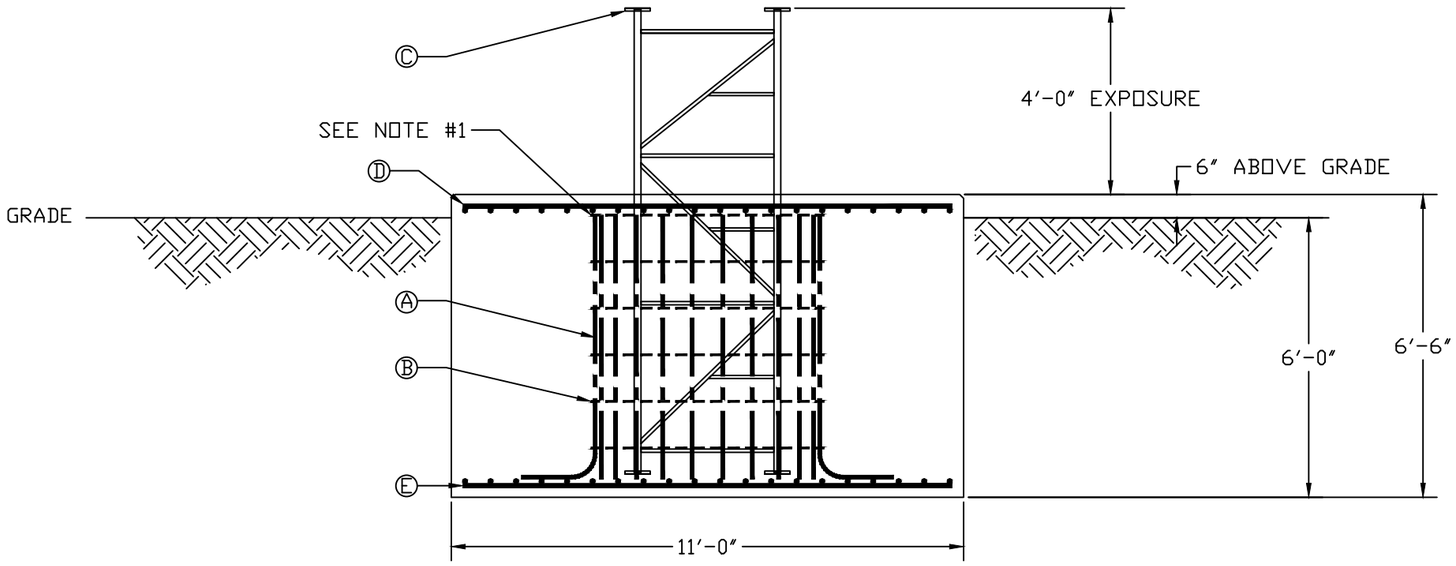
MATERIAL LIST

	ITEM	QTY	GRADE	DESCRIPTION	
	A	23	60	#8 BARS	19″ HOOK, 5′-8″
	B	6	40	#4 BARS	4″ HOOKS 6″ MIN LAP (STAGGERED) 5′-0″
*	C	1	**	W3600 EMBED ** 50 KSI LEGS ** 36 KSI BRACING	10′
	D	40	60	#9 BARS (20) EACH WAY-TOP	10′-6″
	E	40	60	#9 BARS (20) EACH WAY-BOTTOM	10′-6″

* SUPPLIED BY EEI, ALL OTHER MATERIAL TO BE SUPPLIED BY THE CONTRACTOR.

NOTES:

1. THE ENDS OF ALL CIRCULAR TIES SHALL TERMINATE WITH STANDARD HOOKS THAT ENGAGE A LONGITUDINAL COLUMN BAR.
2. THE PRELIMINARY FOUNDATION ESTIMATES AS SHOWN ON THIS DRAWING ARE BASED ON PRESUMPTIVE SOIL PARAMETERS. FINAL FOUNDATION DESIGN TO BE BASED ON SITE SPECIFIC SOIL PARAMETERS AS DETERMINED AND FURNISHED BY A GEOTECHNICAL ENGINEER.
3. MINIMUM COMPACTED UNIT WEIGHT OF ALL BACKFILL TO BE 100 PCF.
4. 29.13 CUBIC YARDS CONCRETE REQUIRED THIS FOUNDATION.



ELEVATION VIEW

CONCRETE MIX REQUIREMENTS:

CEMENT: TYPE I/II PORTLAND CEMENT
28 DAY COMPRESSIVE STRENGTH = 4500 PSI
MAXIMUM WATER/CEMENT RATIO = 0.45
SLUMP = 4″-6″
ENTRAINED AIR CONTENT = 5%-7%

REV	DESCRIPTION	DATE
7		
6		
5		
4		
3		
2		
1		
0	DRAWING CREATED	10/16/19

	NAME
DRAWN BY:	MW
CHECKED BY:	
ENG APPR.	
MFG APPR.	
Q.C.	

Site: NEK-MA2, KS

Job# 104860

Ehresmann Engineering, Inc.
4400 West 31st Street
Yankton, SD 57078
605-665-7532
605-665-9780

TITLE: 84′ STUB TOWER BLOCK FOUNDATION DESIGN

DWG. NO. 104860E01

Sheet NO. E01 | Rev. 1A