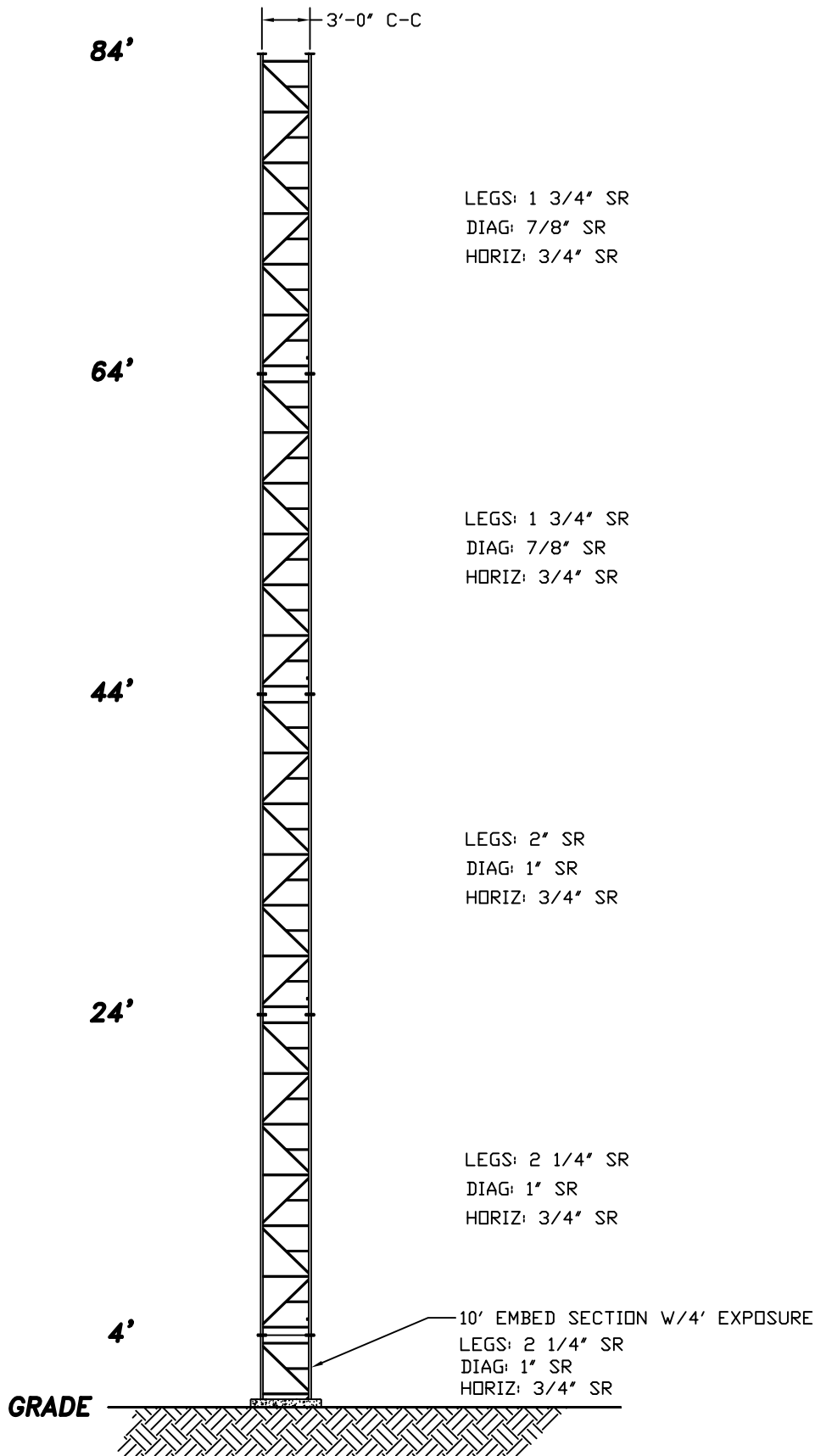




TOWER DESIGN CRITERIA:

- DESIGN PER TIA-222-G
- 90 MPH WIND & NO ICE (V_{asd})
- (V_{ult} = 116 MPH WIND)
- 40 MPH WIND & 3/4" ICE (V_{asd})
- 60 MPH WIND & NO ICE (SERVICE)
- STRUCTURAL CLASS II
- EXPOSURE CATEGORY C
- TOPOGRAPHIC CATEGORY 1
- SEISMIC DESIGN CATEGORY - TBD
- SITE CLASS - TBD

SITE INFORMATION:

COORDINATES: LATITUDE: 38.289030 N
LONGITUDE: 97.171043 W

ADDRESS: TBD
TBD

COUNTY: MARION COUNTY, KANSAS

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	---	

NOTES:

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

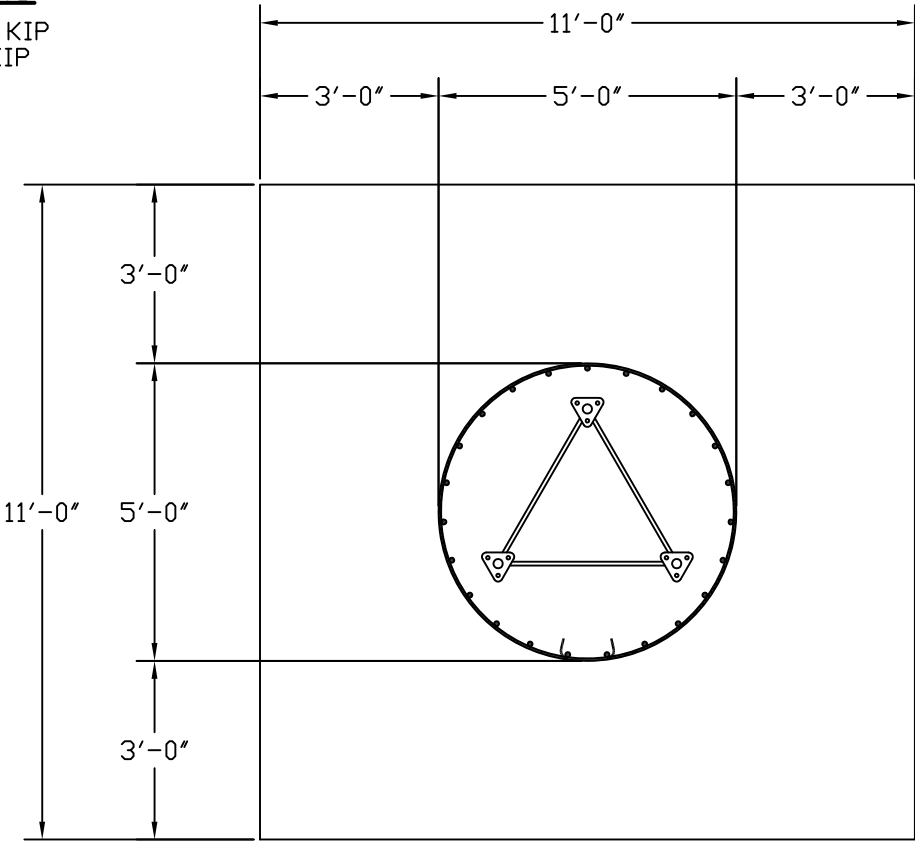
PRELIMINARY

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EHRESMANN ENGINEERING, INC. AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART AS THE BASIS OF THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION.

				NAME	 <i>Ehresmann Engineering, Inc.</i> 4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780	TITLE: 84' W3600 STUB TOWER	
			DRAWN BY:	EH			
			CHECKED BY:				
			ENG APPR.				
			MFG APPR.				
			Q.C.				
			Site:				DWG. NO. 104870C1
			NEK-MA1, KS				
	DRAWING CREATED	10/15/19				Sheet NO. C1	
REV	DESCRIPTION	DATE	Job# 104870				

DESIGN REACTIONS

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



PLAN VIEW

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EHRESMANN ENGINEERING, INC. AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART AS THE BASIS OF THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION.

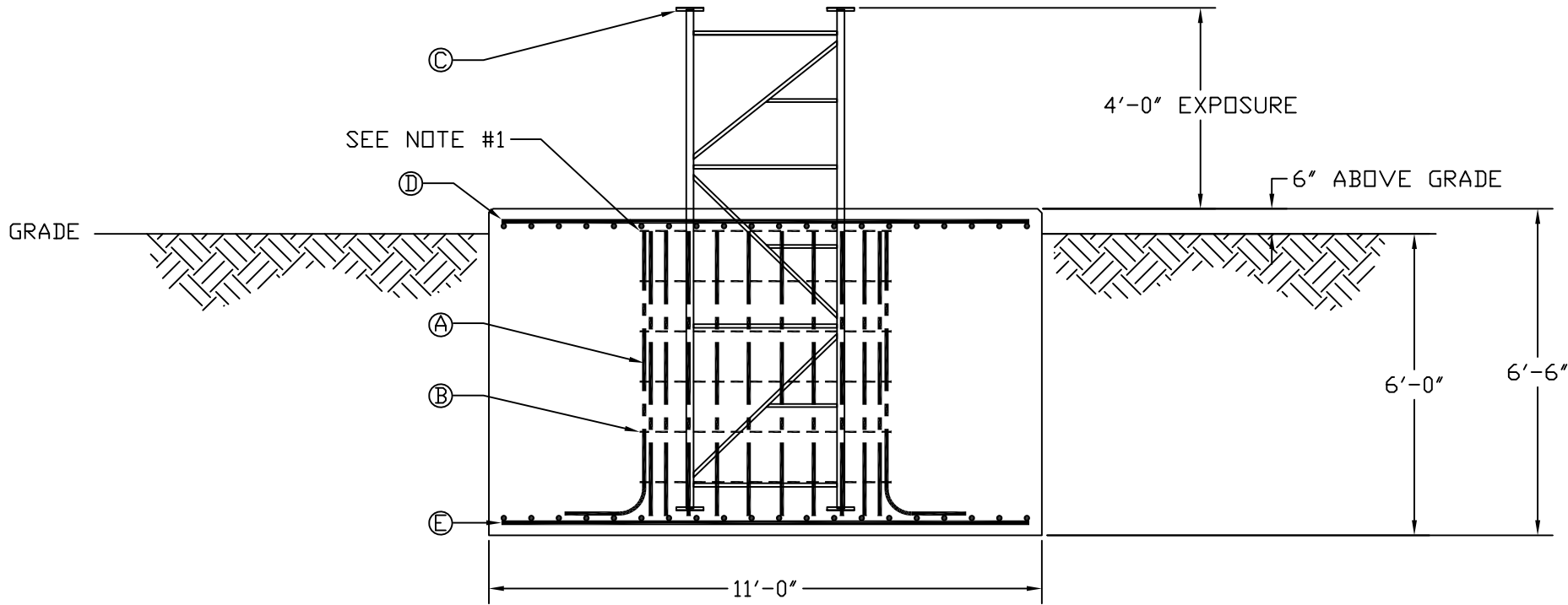
PRELIMINARY

MATERIAL LIST				
ITEM	QTY	GRADE	DESCRIPTION	
A	23	60	#8 BARS	5'-8" 19" HOOK
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%

7				NAME	Ehresmann Engineering, Inc.  4400 West 31st Street Yankton, SD 57078 605-665-7532 605-665-9780
6			DRAWN BY:	EH	
5			CHECKED BY:		
4			ENG APPR.		
3			MFG APPR.		
2			Q.C.		
1			Site:		
0	DRAWING CREATED	10/15/19	NEK-MA1, KS		
REV	DESCRIPTION	DATE	Job# 104870		

TITLE:	
84' STUB TOWER BLOCK FOUNDATION DESIGN	
DWG. NO.	104870E01
Sheet NO.	E01
Rev. 1A	