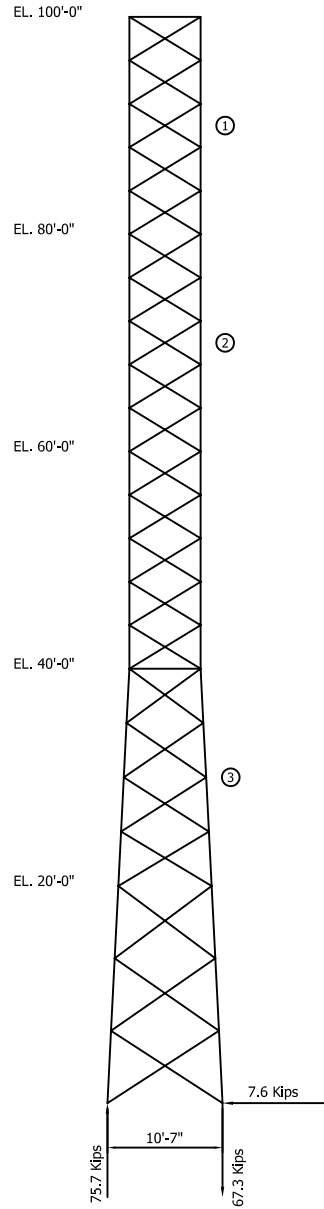


DESIGN SPECIFICATION: EIA-222-G
 BASIC WIND SPEED: 90.0 mph, WITH ICE: 0.0 mph
 ICE THICKNESS: 0.0 in STRUCTURE CLASS: 2
 EXPOSURE CATEGORY: C TOPOGRAPHIC CATEGORY: 1

SECTION NO.	R-9N292	R-8N87	R-7N166	R-7N78	R-7N160
LEGS GRADE = A572, F50	PIPE 3,500x40.300	PIPE 2,875x40.276	PIPE 2,875x40.203	PIPE 2,875x40.203	
DIAGONALS GRADE = A36	L2x2x3/16	L1 3/4x1 3/4x3/16	L1 1/2x1 1/2x3/16	L1 1/2x1 1/2x1/8	
SPLICE BOLTS GRADE = A325X	(4) 7/8" ^Ø	(4) 3/4" ^Ø	(4) 3/4" ^Ø	(4) 5/8" ^Ø	
Face Width	10'-7"	8'-7"	6'-7"	6'-7"	6'-7"



TOWER REACTIONS

DOWN (Kips)	SHEAR (Kips)	MOMENT (KipFt)
6.59	11.85	670.20

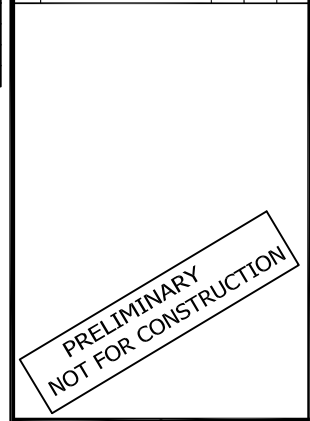
ANTENNA LOADING CHART

POS.	DESCRIPTION	QTY	ELEVATION	Tx LINE	QTY	AZIMUTH	COMMENTS	STATUS
1	3-CTSG-1203 W/MF	1	90'-0"	1-1/4"	3	0°		
2	3-SE411C4RX W/MF	1	70'-0"	1-1/4"	3	0°		
3	HP2	1	30'-0"	1-1/4"	3	0°	Twist & Tilt 0.1°	

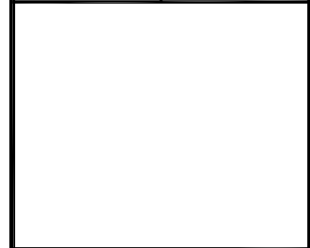
STATUS: E-EXISTING, F-FUTURE, I-INITIAL

FILE NO. Q9-060-0808T00

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP



DWG REFERENCE



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

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UTAH TRANSIT AUTHORITY
 TOWER PROFILE
 100' SS TOWER
 SALT LAKE CITY, UT

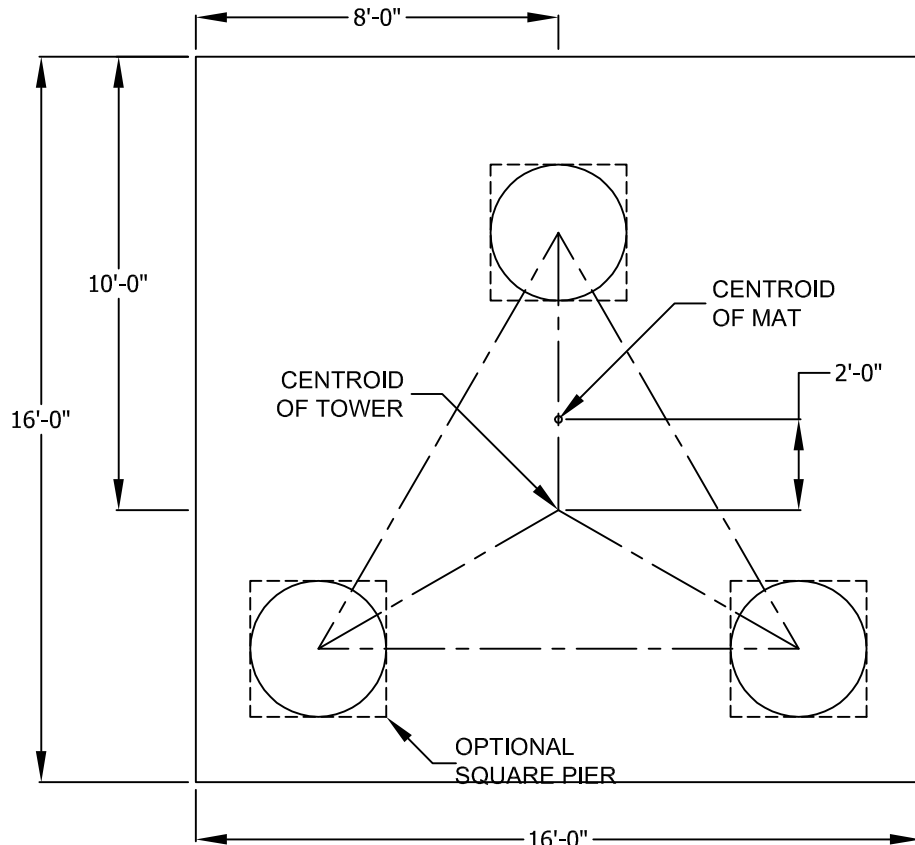
DWN:	CHK'D:	DATE:
		Jul/24/2009

ENG'R:	R.M
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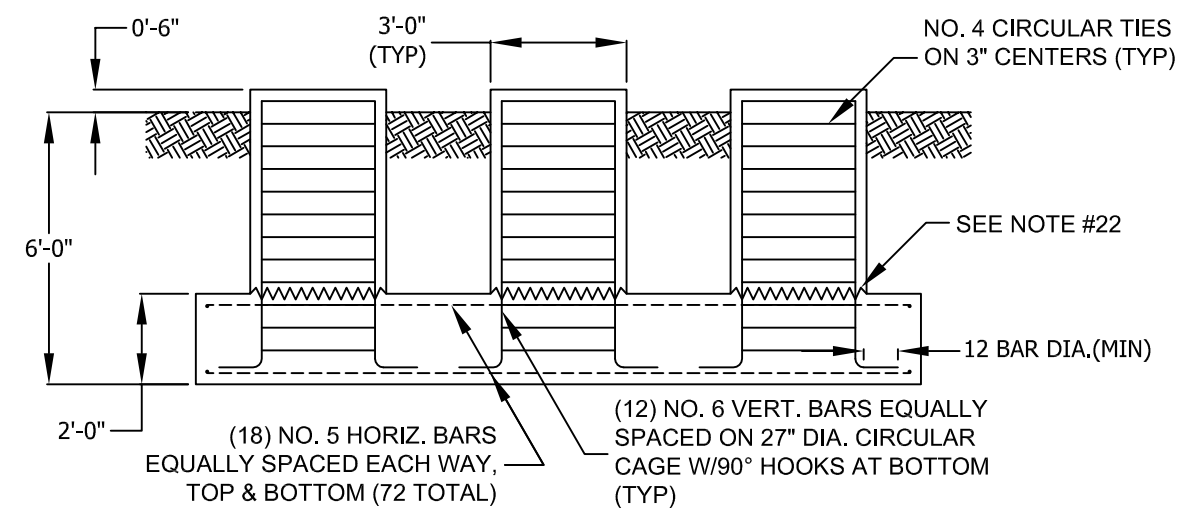
DRAWING NO:	REV:
Q90600808T00-P01-01	0

REACTIONS FACTORED AS PER EIA_222_G

3-JUL-24-2009 9:36:43 AM



PLAN VIEW



ELEVATION VIEW

CONCRETE VOLUME (cu.yds)

	ROUND SQUARE	
PIER	3.5	4.5
PAD	19.0	19.0
TOTAL	22.5	23.5


REACTIONS

Maximum O.T.M =	670.21 FT-K
Total Tower Wt =	7.08 KIPS
Total Shear =	11.85 KIPS
Max. Shear/Leg =	7.56 KIPS
Max. Ten./Leg =	67.29 KIPS
Max. Comp./Leg =	75.72 KIPS

GENERAL NOTES

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - ULTIMATE SOIL BEARING PRESSURE AT 6 FT DEPTH = 5,000 PSF.
 - GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
 - MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE 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 INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- 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 DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI 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 SUCH AS VIBRATING WILL PREVENT HONEYCOMBS 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.
- 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 (76MM) NOR BE LESS THAN 2 INCHES (51MM).
- FOUNDATION DESIGN ASSUMES 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).
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. DATED BY .
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES LEVEL GRADE AT STRUCTURE SITE.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- 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.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING A810214.
- 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, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO. Q9-060-0808T00				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
<div style="border: 2px solid black; padding: 10px; transform: rotate(-15deg); display: inline-block;"> <p>PRELIMINARY NOT FOR CONSTRUCTION</p> </div>				
DWG REFERENCE				
<p>SITE: SALT LAKE CITY-UTAH</p>				
 <p>6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN</p>				
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<p>UTAH TRANSIT AUTHORITY Mat w/Raised Piers Foundation Details</p>				
DWN:	JPG	CHK'D:	DATE:	7/27/2009
ENGR:	JPG			
DRAWING NO:				REV:
				0

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