

LARSON[®] CAMOUFLAGE

1501 South Euclid Avenue
 Tucson, AZ 85713
 (520) 294-3900
 www.larsoncamo.com

OLD MEDLOCK

76' TALL MONOPINE

LARSON CAMOUFLAGE JOB:
P16031

LOCATION:

10475 MEDLOCK BRIDGE ROAD
 JOHNS CREEK, GA
 FULTON COUNTY

DRAWING INDEX

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SPECIAL INSPECTIONS:

1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
2. NO FIELD WELDING SHALL BE PERMITTED
3. THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED PER CHAPTER 17 OF THE 2012 IBC:
 - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING
 - CONTINUOUS SPECIAL INSPECTION OF DRILLING OPERATIONS FOR PIER FOUNDATIONS
 - CONTINUOUS SPECIAL INSPECTION TO VERIFY LOCATION, PLUMBNESS, DIAMETER, AND LENGTH OF PIER FOUNDATIONS
 - PERIODIC SPECIAL INSPECTION OF PLACEMENT OF REINFORCING STEEL
 - CONTINUOUS SPECIAL INSPECTION OF ANCHOR BOLTS PRIOR TO AND DURING CONCRETE PLACEMENT
 - CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT

STRUCTURAL OBSERVATION:

NO STRUCTURAL OBSERVATION IS REQUIRED.

DISCLAIMER:

ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.



10/17/2016



9138 S. State St., Suite 101 (801) 990-1775
 Sandy, UT 84070 (801) 990-1776 FAX
 www.vectorse.com
 GA FIRM LICENSE NUMBER: PEF005640

DATE: 9/27/16 DESIGNED: LSW DRAFTER: WAM

REVISIONS	
DATE	DESCRIPTION
9/27/16	REVISE POLE HEIGHT
10/17/16	REMOVED 3rd & 4th CARRIERS FROM DWGS ONLY

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TITLE SHEET

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U1223-510-161

T1	REV
	2

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GENERAL DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE INTERNATIONAL BUILDING CODE, 2012 EDITION AND THE TIA-222-G STANDARD

DESIGN LOADS:

WIND:

BASIC WIND SPEED: 115 MPH (3-SEC GUST),
 RISK CATEGORY/STRUCTURE CLASS: II
 EXPOSURE: C
 TOPOGRAPHIC CATEGORY: 1
 CREST HEIGHT: 0 FT

ICE: 0.75" RADIAL ICE THICKNESS @30 MPH (3-SEC GUST)

SEISMIC:

IMPORTANCE FACTOR: 1.00
 RISK CATEGORY: II
 MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 $S_s = 0.204g$, $S_1 = 0.094g$
 SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS:
 $S_{DS} = 0.218g$, $S_{D1} = 0.150g$
 SEISMIC DESIGN CATEGORY: C
 BASIC SEISMIC-FORCE-RESISTING-SYSTEM:
 TELECOMMUNICATION TOWER: STEEL POLE
 SEISMIC BASE SHEAR, V: 4.5 K
 SEISMIC RESPONSE COEFFICIENT, C_s : 0.146
 RESPONSE MODIFICATION FACTOR, R: 1.5
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

MATERIAL NOTES:

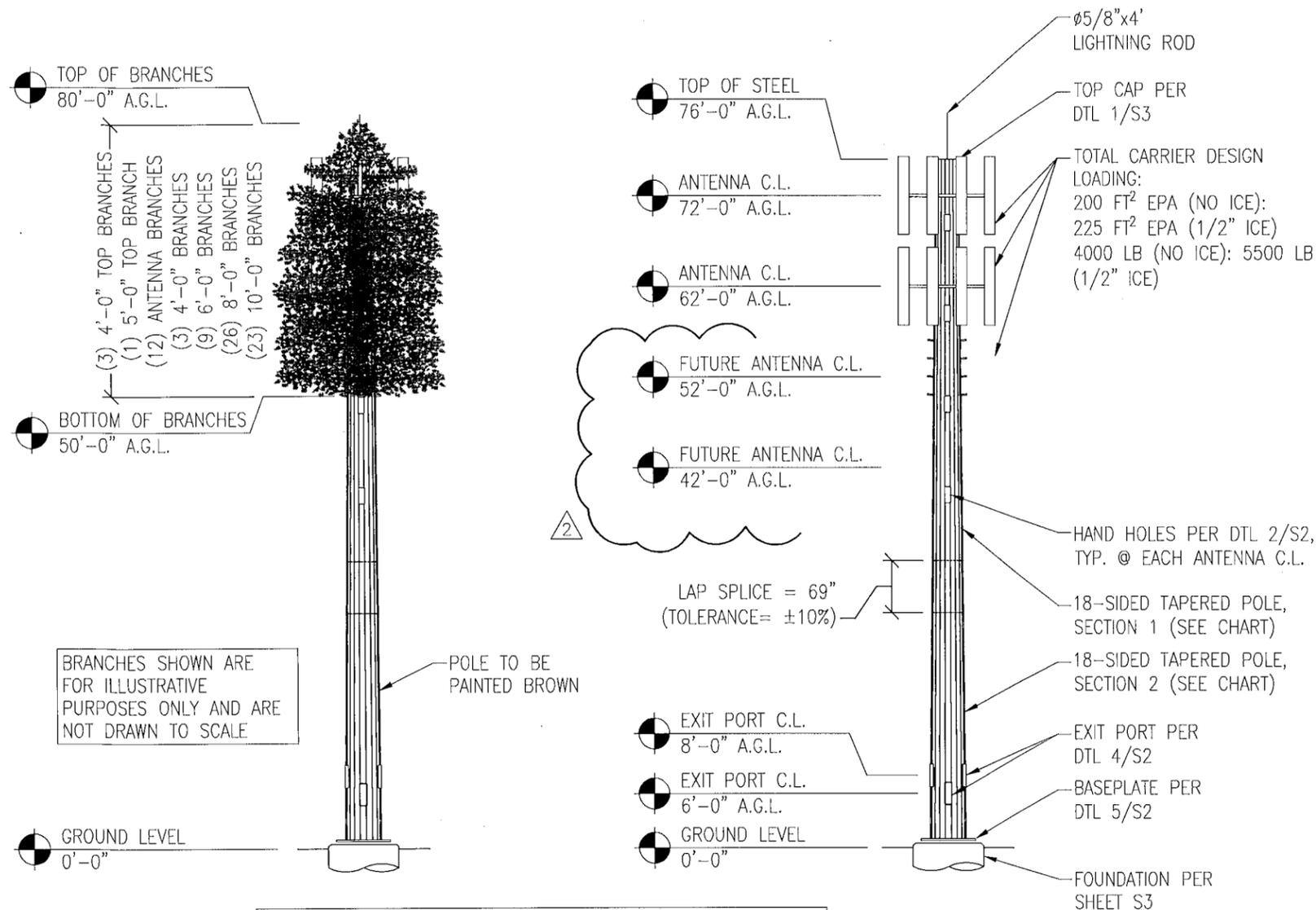
- 18-SIDED MONOPOLE SHAFT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
- BASE PLATE STEEL SHALL CONFORM w/ ASTM A572 GR 50, U.N.O.
- REINFORCED ACCESS PORT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
- ALL OTHER STEEL SHAPES & PLATES SHALL CONFORM w/ ASTM A36, U.N.O.
- ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM w/ ASTM A325N, U.N.O.
- ALL ANCHOR BOLTS SHALL CONFORM w/ ASTM A615 GR. 75, U.N.O.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE w/ THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY AWS D1.1.
- ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM A123 AND ASTM A153 STANDARDS.
- ALL BOLTED CONNECTIONS SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC.

BASE DESIGN REACTIONS:

MOMENT, M = 2,632 K-FT (1.0 WIND)
 SHEAR, V = 46.5 K (1.0 WIND)
 AXIAL, P = 61.6 K (1.2 DEAD + 1.0 ICE)



10/17/2016



SECTION	LENGTH	TOP ϕ	BOTTOM ϕ	THICKNESS	WEIGHT
1	50'-0"	30.00"	41.25"	7/32"	4.8 K
2	30'-9"	39.52"	46.44"	5/16"	6.0* K

*INCLUDES EXIT PORT AND BASEPLATE WEIGHT
 DESIGN TAPER = 0.225 in/ft

ELEVATIONS

NT.S.

1

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ELEVATION VIEW & NOTES

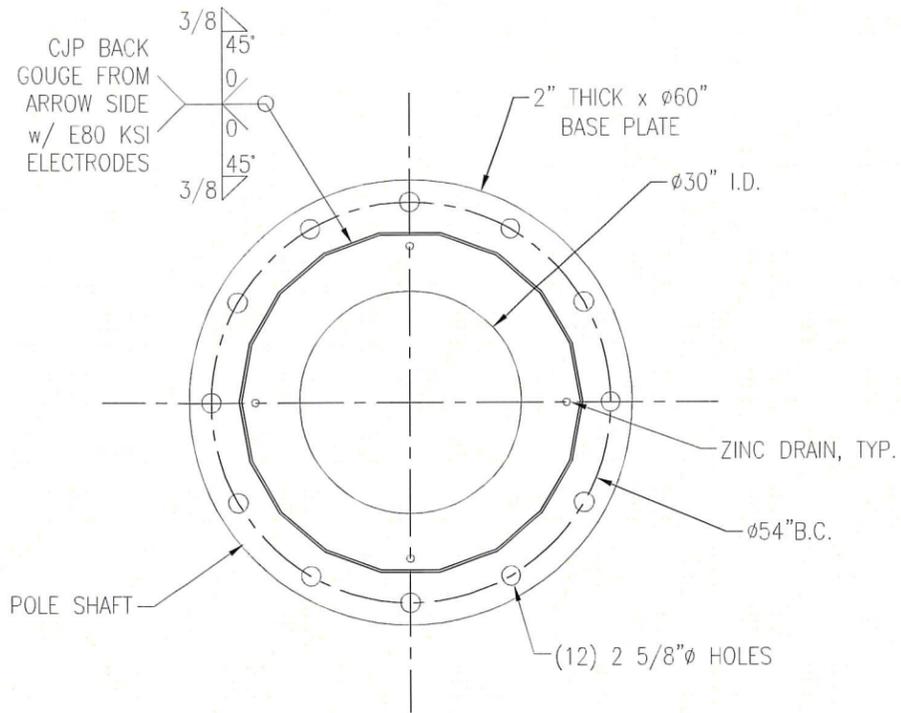
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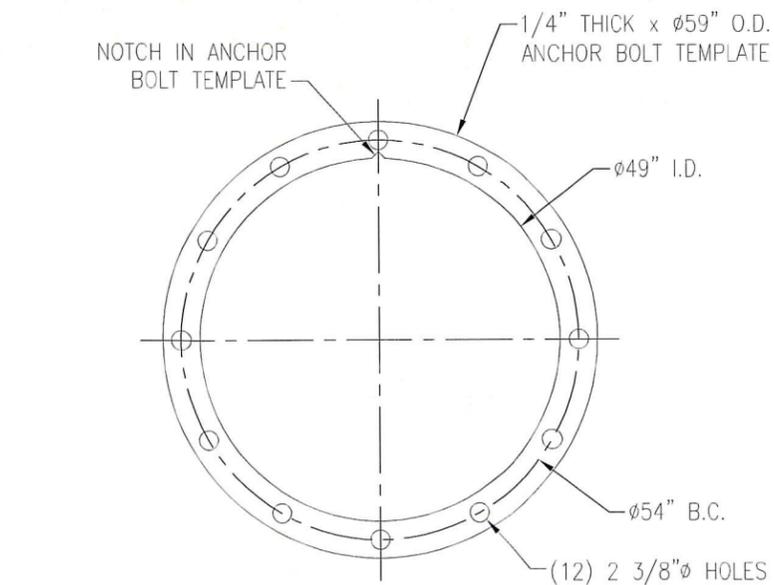
REV
2



BASEPLATE

N.T.S.

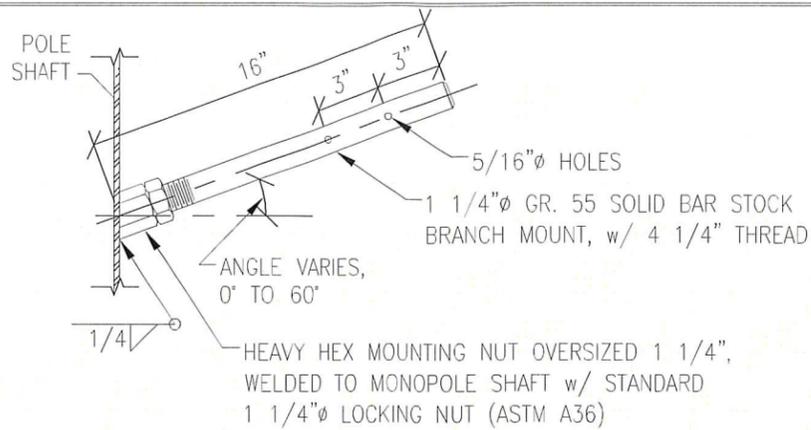
5



ANCHOR BOLT TEMPLATE

N.T.S.

6

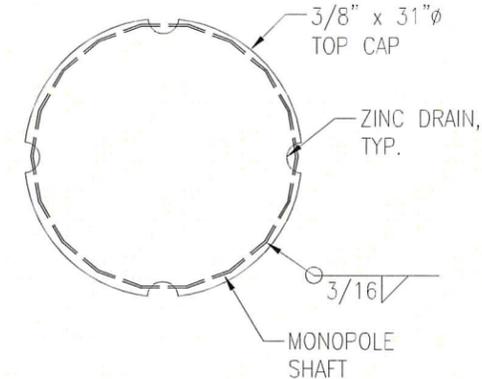


TYPICAL BRANCH RECEPTACLE FOR 10' BRANCHES & SHORTER

TYPICAL BRANCH RECEPTACLES

N.T.S.

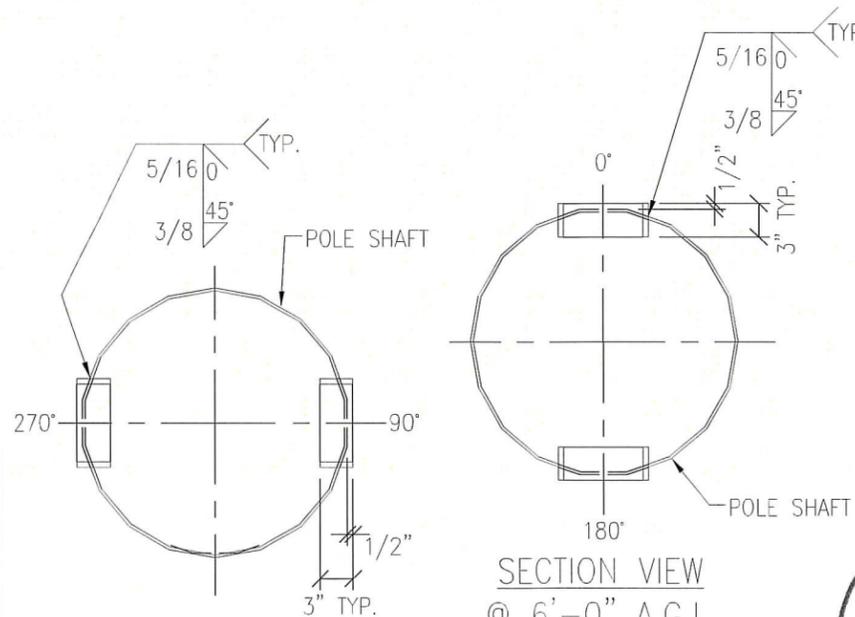
3



TOP CAP

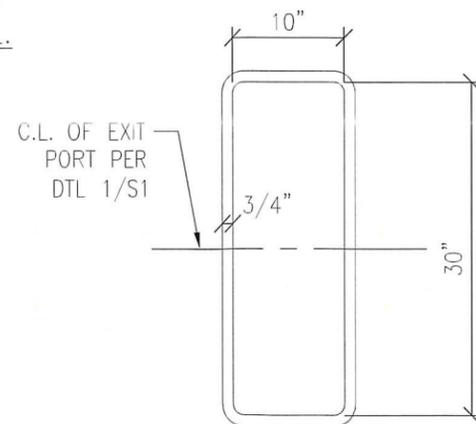
N.T.S.

1



SECTION VIEW @ 8'-0" A.G.L.

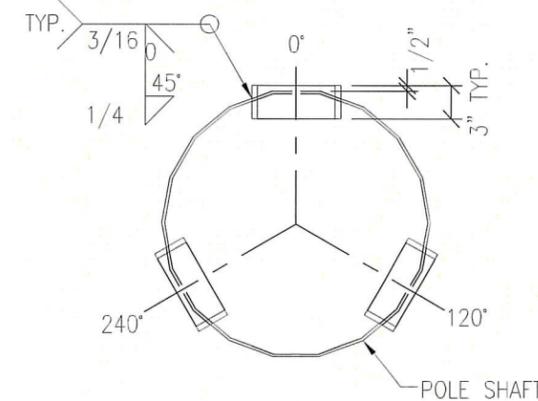
SECTION VIEW @ 6'-0" A.G.L.



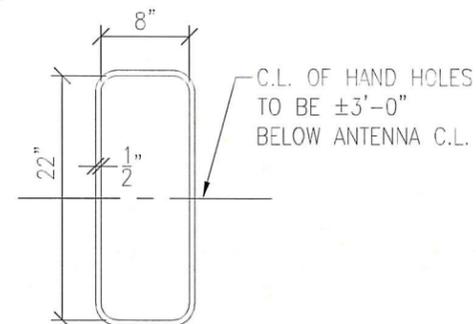
ELEVATION VIEW



10/17/2016



SECTION VIEW



SECTION VIEW

EXIT PORTS

N.T.S.

4

HAND HOLES

N.T.S.

2



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BRANCH LAYOUT

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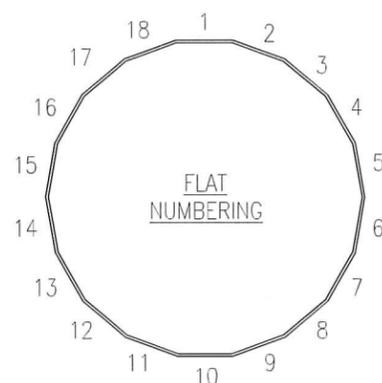
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S4

REV
2

BRANCH LAYOUT

0/1	20/2	40/3	60/4	80/5	100/6	120/7	140/8	160/9	180/10	200/11	220/12	240/13	260/14	280/15	300/16	320/17	340/18	Dist. From Top
									6								6	6"
		6															P	1'-6"
				P									6					2"
6						6					P							2'-6"
	AF							AF			AF				P		AF	3"
				AF				AF			AF			AF			AF	3'-6"
		AF			AF			AF		AF			AF					4"
			8											AF				4'-6"
					P					P			6			8		5'
							6							P				5'-6"
8										8					8			6"
				8														6'-6"
																		7"
																		7'-6"
																	6	8"
																		8'-6"
			8															9"
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P																		23'-6"
10																		24"
																		24'-6"
																		25"
																		25'-6"
																		26"



- 4 = 4'-0" BRANCH
 - 5 = 5'-0" BRANCH
 - 6 = 6'-0" BRANCH
 - 8 = 8'-0" BRANCH
 - 10 = 10'-0" BRANCH
- TOTAL BRANCH COUNT = 77



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