

NO	1	2012 ORIGINAL ISSUE - NEW DRAWING	DESCRIPTION OF REVISIONS	MADE BY	C. COLE	DATE	01/12	NO	3	4	DESCRIPTION OF REVISIONS	MADE BY		DATE
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**STEEL STRAIN POLE NOTES:**

1. Steel poles shall conform to ASTM A595, Grade A or B, ASTM A572 Grade 55, or approved equal. Supplement S18 of ASTM A6 regarding the maximum tensile strength shall apply.
2. Poles constructed out of two or more sections with overlapping splices shall not be permitted.
3. The pole diameter shall be tapered 0.0117 inch/inch.
4. Welding of structural tubing shall conform to the requirements of the American Welding Society Structural Welding Code, D1.1 (latest edition). All welding shall be continuous unless noted otherwise. All butt welds shall be full penetration using pre-qualified welding procedures and shall be tested by ultrasonic testing. All butt welds shall be ground flush, full width. Grinding striations shall be parallel to the length of the member. Transverse welds shall be allowed only at the base. Weld metal shall be E70XX.
5. All bolts (except anchor bolts) shall conform to ASTM A325, Type 1. The hole diameter shall be the bolt diameter plus 1/16".
6. All anchor bolts shall conform to ASTM F1554, Grade 55. Hole diameter shall be bolt diameter plus 1/2". The upper 1'-2" and lower 6" shall be threaded. The upper 1'-8" shall be galvanized.
7. Nuts shall conform to ASTM A563, Grade A heavy hex.
8. Washers shall conform to ASTM F436, Type 1.
9. Base plates shall conform to ASTM A36.
10. Handhole frame shall conform to ASTM A709 Grade 36 or ASTM A36. Handhole cover shall conform to ASTM A1011, Grade 50, 55, 60, or 65. The handhole shall be positioned 180 degrees from the wire entrance pipe. The handhole shall be weather resistant.
11. Aluminum caps and covers shall conform to ASTM B-26 (319-F).
12. Stainless steel screws shall conform to AISI Type 316.
13. All bolts, nuts, and washers shall be galvanized in accordance with the requirements of ASTM F2329. All other steel shall be galvanized after fabrication in accordance with the requirements of A123.

**WOOD POLE NOTES:**

1. The minimum height to messenger attachment point from finished grade directly adjacent to pole, MAH shall be 26 feet.
2. The maximum height to messenger attachment point from finished grade directly adjacent to pole, MAH shall be 36 feet.
3. All poles shall be raked back from the resultant of the applied messenger wire load 6 inches. For box spans, the resultant is approximately at 45° from a given messenger wire.
4. The Contractor shall be responsible for providing guy anchors with sufficient pullout capacity. Ground anchors for guys wires may be 8-way expanding or power-driven helical screw anchors. Each anchor shall have a minimum pullout capacity of 40,000 pounds in the installed condition.
5. All wood poles shall have a minimum of two guys.
6. Wood poles shall be Western Red Cedar or Douglas Fir.

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION	01/12
<b>SIGNATURE</b>		DRAWING NO.	T.S. 15-0
APPROVED FOR DISTRIBUTION	SPAN WIRE SIGNALS AND LIGHTING GENERAL NOTES	SHEET NO.	2 OF 3
<b>ON FILE</b>			