MATERIAL DATA	
COMPONET	GRADE
STEEL TUBES	ASTM A572 GR. 50 OR A595 GR A
BASE PLATES	ASTM A572 GR. 50
FLANGE PLATES	ASTM A572 GR. 50
GUSSET PLATES	ASTM A572 GR. 50
HANDHOLE FRAMES	ASTM A572 GR. 50
HANDHOLE COVERS	ASTM A1011
ANCHOR BOLTS	ASTM F1554 GR. 55
NUTS	ASTM A563 GR. DH
WASHERS	ASTM F436 TYPE 1
ANCHOR PLATE/TEMPLATE	ASTM A36
CONNECTION BOLTS	ASTM A325
GALV/ANIZING	ASTM A123, A153, & F2329
PIPE	ASTM A53 GR. B OR ASTM A500 GR. B

GENERAL NOTES

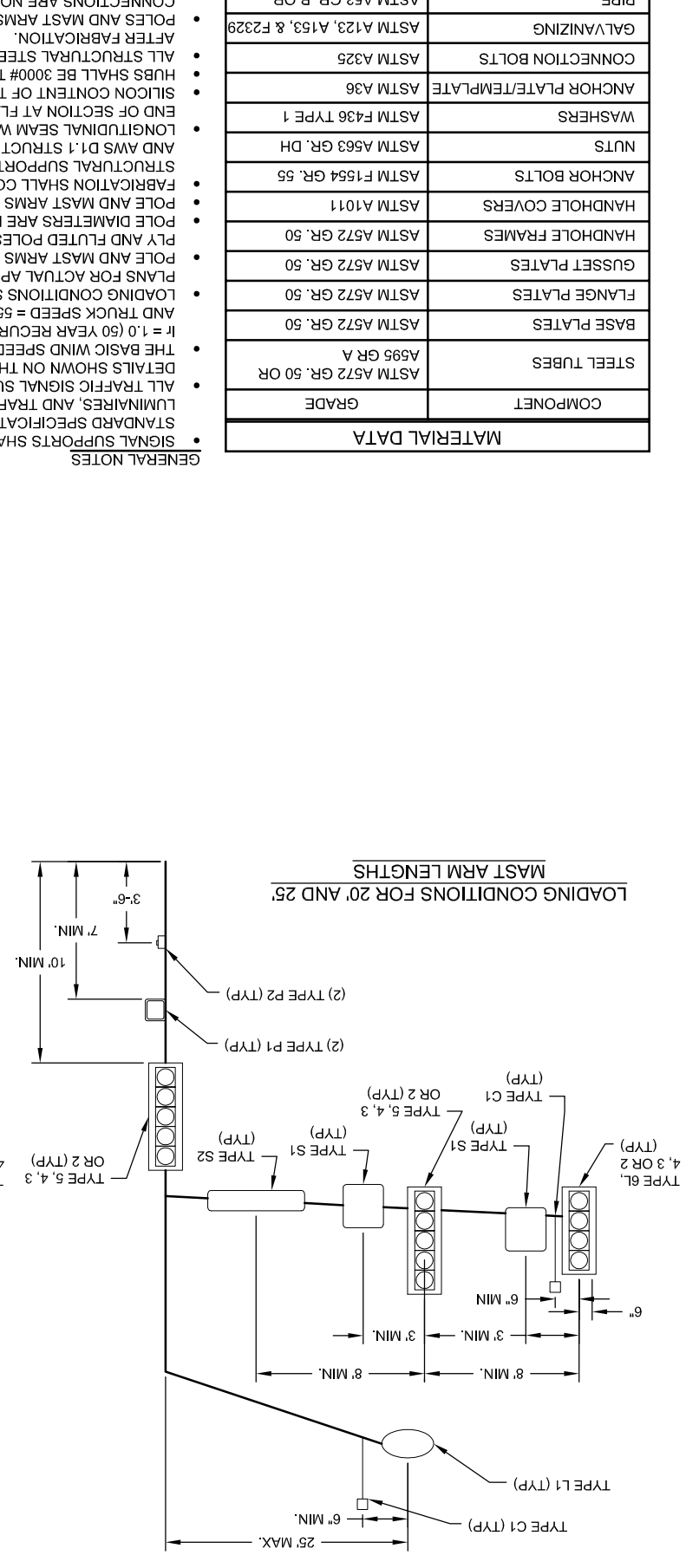
- SIGNAL SUPPORTS SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, 5TH EDITION, 2009.
- ALL TRAFFIC SIGNAL SUPPORTS SHALL CONFORM TO THE DESIGN CRITERIA AND DETAILS SHOWN ON THESE DRAWINGS EXCEPT AS APPROVED BY THE ENGINEER.
- THE BASIC WIND SPEED (3-SECOND GUST) SHALL BE 95 MPH, GUST FACTOR G=1.14, Ir = 1.0 (50 YEAR RECURRENCE INTERVAL), FATIGUE CATEGORY II, NO GALLOPING, AND TRUCK SPEED = 55 MPH.
- LOADING CONDITIONS SHOWN ON THIS SHEET ARE GENERIC. REFER TO PROJECT PLANS FOR ACTUAL APPURTENANCE LOCATIONS.
- POLE AND MAST ARMS SHALL BE OCTAGONAL OR ROUND IN CROSS SECTION. TWO PLY AND FLUTED POLES OR ARMS ARE NOT PERMITTED.
- POLE DIAMETERS ARE MEASURED FLAT TO FLAT FOR OCTAGONAL POLES.
- POLE AND MAST ARMS SHALL HAVE TAPER OF 0.14 IN/FT.
- FABRICATION SHALL CONFORM TO 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARES, AND TRAFFIC SIGNALS AND AWS D1.1 STRUCTURAL STEEL WELDING CODE.
- LONGITUDINAL SEAM WELD IS 60% MIN. PENETRATION EXCEPT FOR 6 INCHES FROM END OF SECTION AT FLANGE, BASE PLATE AND SLIP JOINT IS 100% PENETRATION.
- SILICON CONTENT OF THE BASE METAL SHALL BE 0.0% TO 0.04% OR 0.15% TO 0.25%.
- HUBS SHALL BE 3000# THREAD FORGED STEEL.
- ALL STRUCTURAL STEEL INCLUDING FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- POLES AND MAST ARMS SHALL BE OF ONE PIECE CONSTRUCTION, SLIP-FIT CONNECTIONS ARE NOT PERMITTED.
- ROUND AND SMOOTH ALL EDGES ALONG ELECTRICAL WAY.
- TIGHTENING OF BOLTS WITH TAPPED HOLES SHALL CONFORM TO THE OREGON DEPARTMENT OF TRANSPORTATION'S 2008 STANDARD SPECIFICATIONS FOR CONSTRUCTION SECTION 962.46(j)(2).
- ALL FASTENERS SHALL BE STAINLESS STEEL.
- POLE CAPS SHALL BE CAST ALUMINUM.

APPURTENANCE LOADING

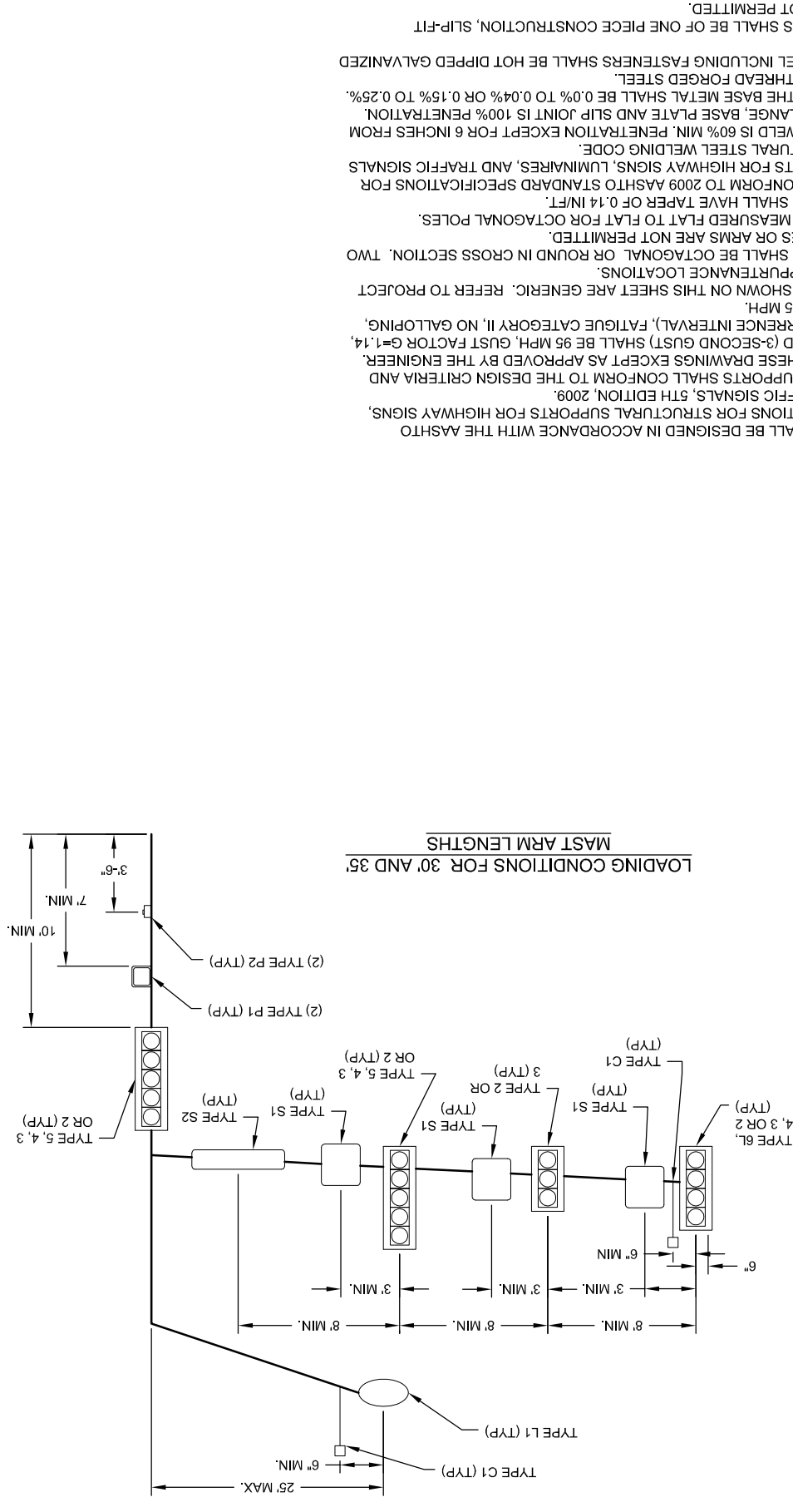
TYPE	DECRIPTION	WEIGHT (LBS)	AREA FACE (SQ FT)	AREA SIDE (SQ FT)	AREA BOTTOM (SQ FT)	ICE AREA (SQ FT)
2, 3	3-SECTION SIGNAL HEAD	55	8.67	4	1	25
4, 6L	4-SECTION SIGNAL HEAD	73	9.9	5	1	30
5	5-SECTION SIGNAL HEAD	92	11.97	6	1	35
S1	24" X 30" SIGN	50	7.5	0	0	7.5
S2	STREET NAME SIGN	105	30	0	0	30
L1	LUMINAIRE	60	3.3	3.3	3.3	15
P1	PEDESTRIAN SIGNAL HEAD	25	2.47	2.47	2.51	14.9
P2	PEDESTRIAN PUSH BUTTON	3	0.27	0.18	0.12	1.14
C1	VIDEO DETECTION CAMERA	30	1	2	1	2

- VIDEO DETECTION CAMERA AND EMERGENCY VEHICLE PRE-EMPTION MAY BE PLACED AT ANY LOCATION ALONG MAST ARM.
- APPURTENANCES MAY DIFFER FROM THOSE SHOWN AS LONG AS TOTAL WIND LOADING/DEAD LOADING/ETC. DOES NOT EXCEED DESIGNED WORST CASE VALUES.

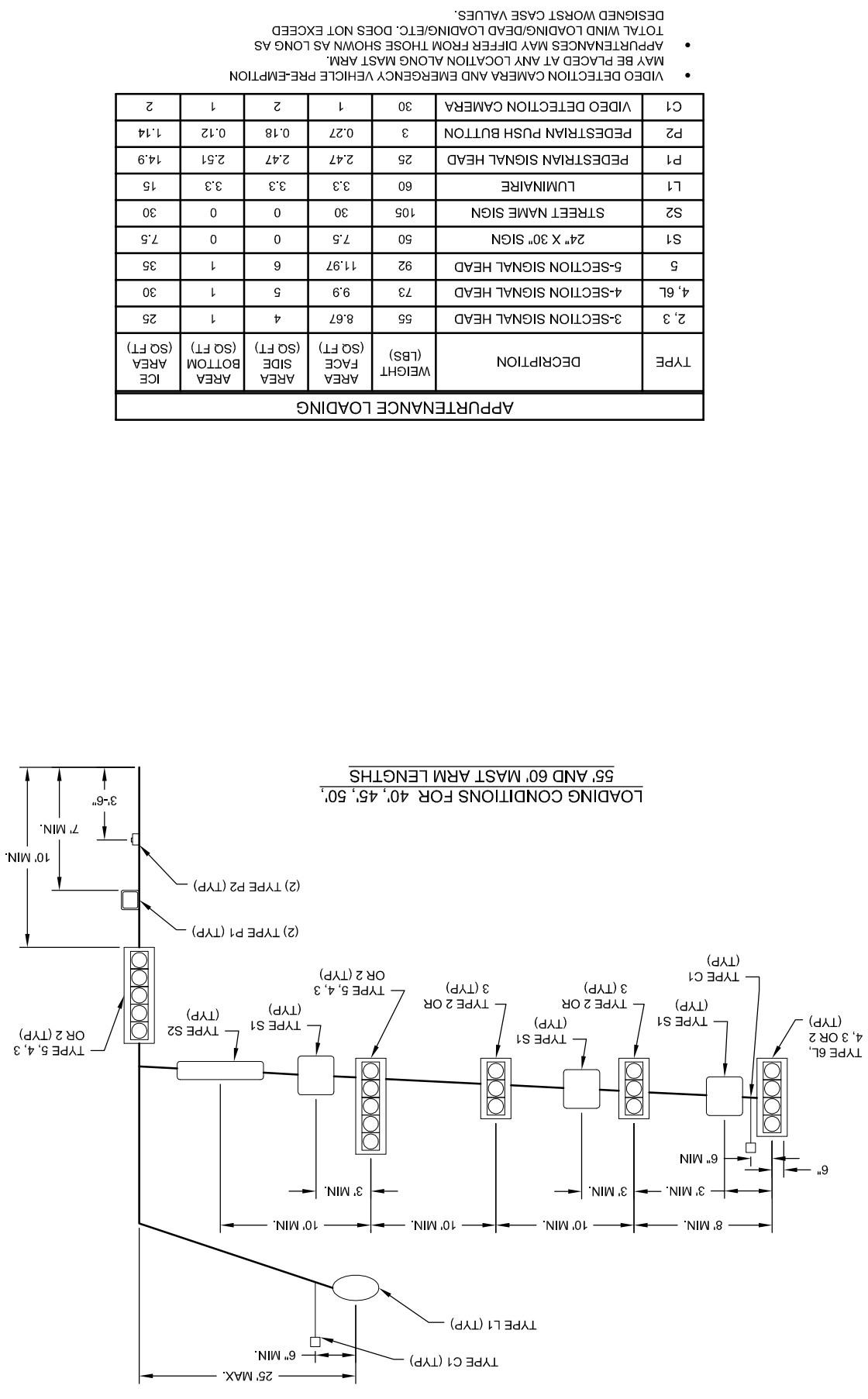
LOADING CONDITIONS FOR 20', AND 25' MAST ARM LENGTHS



LOADING CONDITIONS FOR 30' AND 35' MAST ARM LENGTHS



LOADING CONDITIONS FOR 40', 45', 50', 55' AND 60' MAST ARM LENGTHS



TRAFFIC SIGNAL SUPPORTS NOTES AND DESIGN CRITERIA

WASHINGTON COUNTY
DEPARTMENT OF LAND USE & TRANSPORTATION
ENGINEERING SECTION

EFFECTIVE DATE: 6/16/2014

WASH. CO. # 6911

PLOT STAMP:
CAD: 6911.DWG