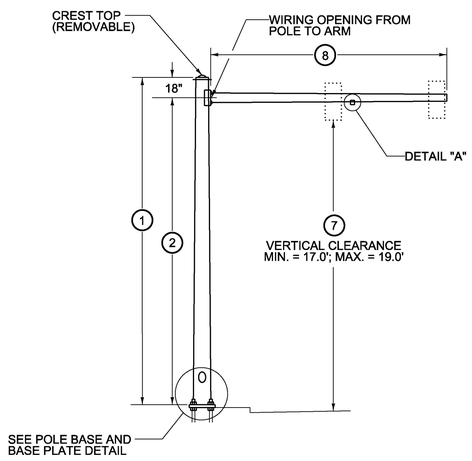
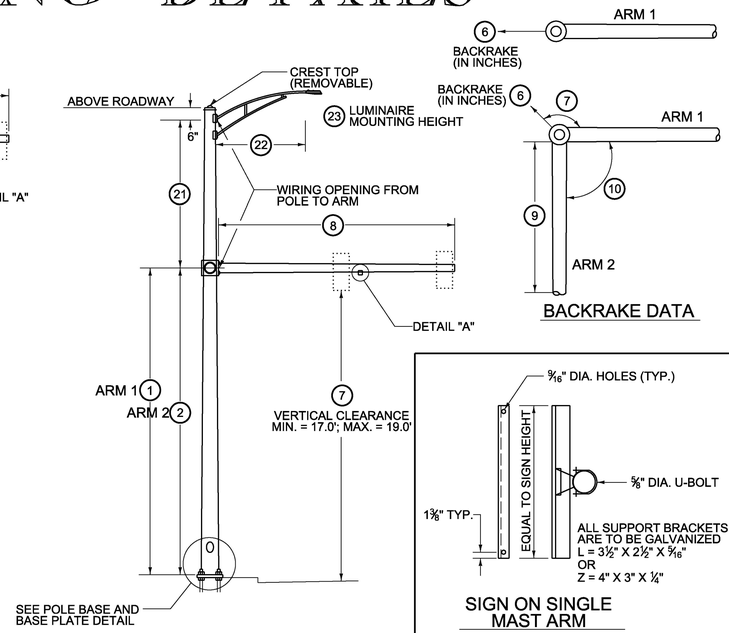
MAST ARM, POLE & FOOTING DETAILS



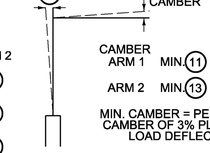
TYPE A MAST POLE & ARM



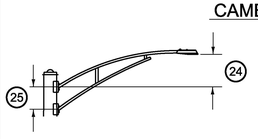
TYPE B MAST POLE & ARM

BACKRAKE DATA

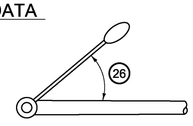
	ARM 1	ARM 2
POLE BASE DIAMETER	3	
POLE GAUGE	4	
POLE TAPER RATE	5	
ARM DIAMETER	15	18
ARM GAUGE	16	19
ARM TAPER RATE	17	20



CAMBER DATA



LUMINAIRE ARM RISE

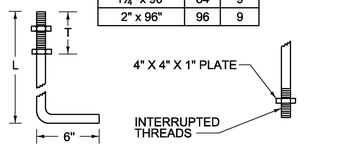


LUMINAIRE ORIENTATION

SIGN ON SINGLE MAST ARM

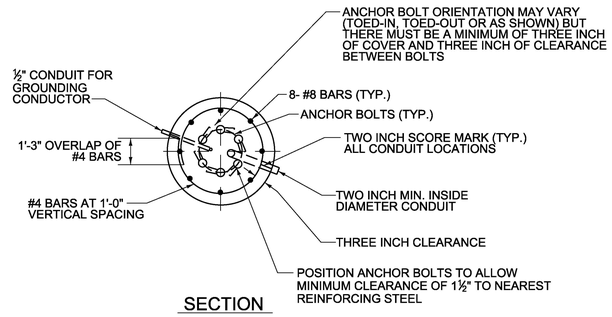
SIGN BRACKET DETAILS

ANCHOR BOLT DETAIL		
SIZE	L (in.)	T (in.)
1¼" x 48"	42	8
1½" x 60"	54	9
1¾" x 90"	84	9
2" x 96"	96	9



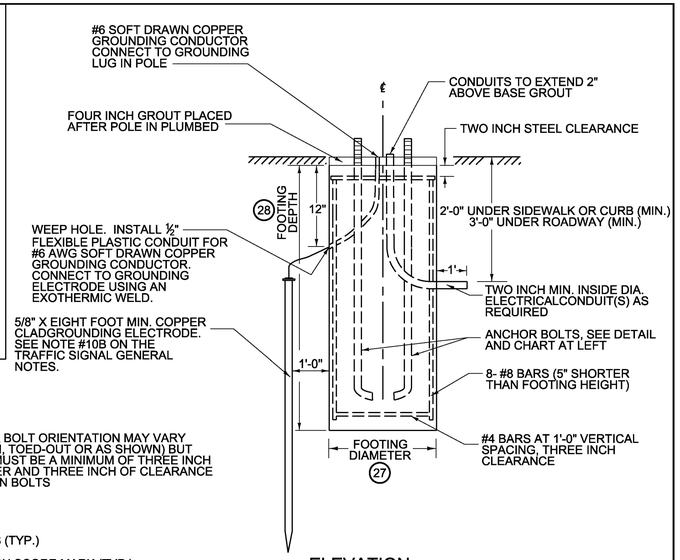
ANCHOR BOLT DETAIL

NOTE:
1. SEE TRAFFIC SIGNAL GENERAL NOTE 3C FOR MORE INFORMATION REGARDING BOLT TIGHTENING.

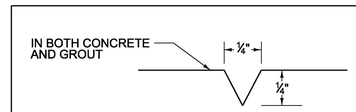


SECTION

MAST POLE FOOTING DETAIL
(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



ELEVATION

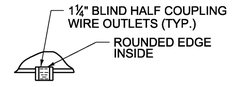


USED FOR CONDUIT LOCATION, SEE SECTION DETAIL AT LEFT

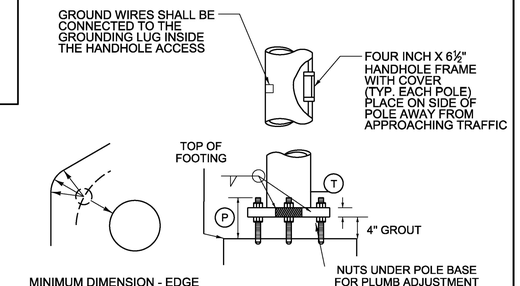
2" SCORE MARK DETAIL

NOTES

1. SEE TRAFFIC SIGNAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DETERMINE TYPE OF STRUCTURE REQUIRED.
3. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 10' HIGH.
4. MINIMUM CLEARANCE FROM SIGNS TO ANY TRAVEL LANE SHALL BE 17'.
5. CONTRACTOR SHALL VERIFY ALL GROUND ELEVATIONS.
6. LUMINAIRES, ALL ASSOCIATED EQUIPMENT AND LABOR TO INSTALL SHALL BE PAID FOR UNDER CONTRACT ITEM NOS. 679.45, 679.47 AND 679.50.



DETAIL "A"



POLE BASE AND BASE PLATE DETAIL

STRUCTURE DIMENSIONS

POLE DATA									ARM DATA												LIGHTING DATA						FOOTING DATA		BASE PLATE / BOLT DATA					
POLE	TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	BC	F	S	T	P	ANCHOR BOLT SIZE
MAP1	A	15'	16'	--	--	--	--	--	40'	30'	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP2	A	19.5'	18'	--	--	--	--	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP3	B	17'	17'	--	--	--	--	--	30'	30'	90	--	--	--	--	--	--	--	--	--	--	MAN	12'	MAN	MAN	MAN	45	--	--	--	--	--	--	--	--
MAP4	A	18.5'	17'	--	--	--	--	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP5	B	19'	19'	--	--	--	--	--	30'	30'	90	--	--	--	--	--	--	--	--	--	--	MAN	12'	MAN	MAN	MAN	90	--	--	--	--	--	--	--	--
MAP6	B	19'	--	--	--	--	--	--	55'	--	--	--	--	--	--	--	--	--	--	--	--	MAN	12'	MAN	MAN	MAN	45	--	--	--	--	--	--	--	--
MAP7	A	16.5'	15'	--	--	--	--	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP8	A	18.5'	17'	--	--	--	--	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP9	A	19.5'	18'	--	--	--	--	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP10	B	17'	--	--	--	--	--	--	45'	--	--	--	--	--	--	--	--	--	--	--	--	MAN	12'	MAN	MAN	MAN	45	--	--	--	--	--	--	--	--
MAP11	A	13.5'	12'	--	--	--	--	--	25'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP12	A	16.5'	15'	--	--	--	--	--	45'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP13	A	16.5'	15'	--	--	--	--	--	30'	45'	90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAP14	B	17'	15'	--	--	--	--	--	30'	45'	90	--	--	--	--	--	--	--	--	--	--	MAN	12'	MAN	MAN	MAN	45	--	--	--	--	--	--	--	--

MAN = TO BE DETERMINED BY MANUFACTURER

PROJECT NAME:	WILLISTON-ESSEX		
PROJECT NUMBER:	STPG SGNL(46)		
FILE NAME:	t15t017frm.dgn	PLOT DATE:	3/21/2017
PROJECT LEADER:	M. LACROIX	DRAWN BY:	K. RECORD
DESIGNED BY:	K. RECORD	CHECKED BY:	M. LACROIX
TRAFFIC SIGNAL DETAIL SHEET		SHEET 52	OF 66