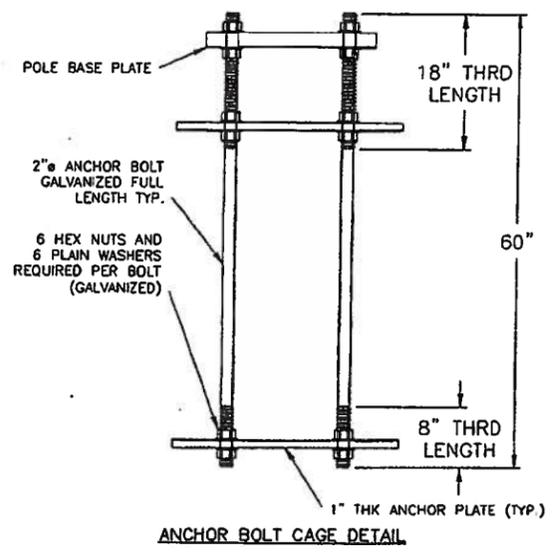
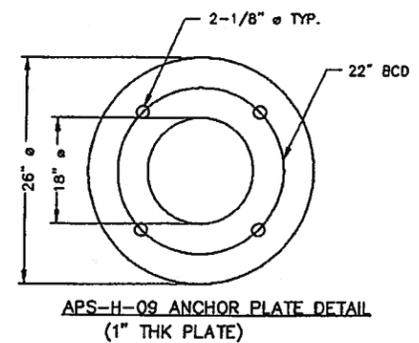
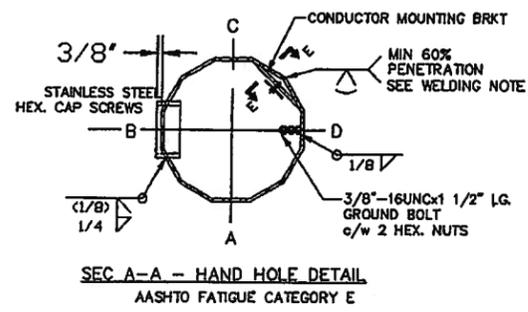
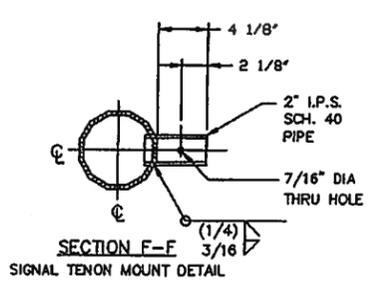
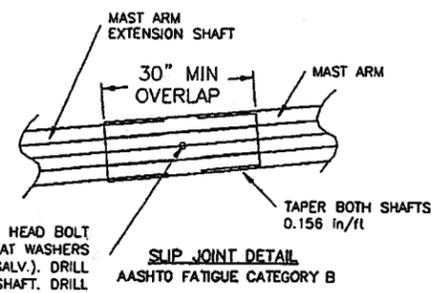


INSTALL 3/4" NC ASTM A325 HEX HEAD BOLT 12 1/2" LONG WITH NUT & 2 FLAT WASHERS AND ONE LOCK WASHER (GALV.). DRILL 13/16" HOLE IN OUTSIDE SHAFT. DRILL INSIDE SHAFT IN FIELD.



A MAIN SHAFT (1)			
AFB (3)	AFT (4)	THK	LENGTH
16"	15"	1/4"	21' 6" MAX

(1) DODECAGON SECTION (12 SIDED)
(2) X-SECTION AREA OF SIGNAL OR SIGN x DISTANCE FROM CENTERLINE OF SIGNAL OR SIGN TO CENTERLINE OF MAIN SHAFT
(3) AFB - "ACROSS THE FLATS" AT THE BASE OF THE SHAFT
(4) AFT - "ACROSS THE FLATS" AT THE TOP OF THE SHAFT

B MAST ARM SHAFT (1)			
AFB (3)	AFT (4)	THK	LENGTH
11 5/16"	5"	3/16"	40'

TOTAL MAST ARM LENGTH "B"	C MAST ARM EXTENSION SHAFT (1)				CONNECTING BOLTS (6 SETS)		SIGN & SIGNAL MAX. (2) LOADING XYZ
	AFB (3)	AFT (4)	THK	LENGTH	DIA.	LENGTH	
50'	12 3/8"	10 1/4"	1/4"	12' 6"	1 1/2"	6"	1722.9
55'	13 3/16"	10 1/4"	1/4"	17' 6"	1 1/2"	6"	1935.9
60'	13 15/16"	10 1/4"	1/4"	22' 6"	1 1/2"	6"	2638.0
65'	14 3/4"	10 1/4"	1/4"	27' 6"	1 1/2"	6"	2922.0

DESIGN: ALL STANDARDS ARE DESIGNED TO THE 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
DESIGN WIND SPEED - 90 MPH (3 SECOND GUST WIND SPEED)
DESIGN LIFE / RECURRENCE INTERVAL - 50 YEARS
FATIGUE CATEGORY - III (GALLOPING, NATURAL & TRUCK GUSTS)
MAXIMUM TRUCK GUST WIND SPEED - 65 MPH
EACH STRUCTURE HAS A LOAD CAPACITY AS SHOWN IN THE ABOVE CHART. DESIGN AREAS OF SIGNS AS FOLLOWS:
TRAFFIC SIGNAL FACE AREA = 9.2 FT²
WIND DRAG COEFFICIENT = 1.2
ICE AREA = 23 FT²
TRAFFIC SIGN FACE AREA = 5.0 FT²
WIND DRAG COEFFICIENT = 1.12
ICE AREA = 5.0 FT²

WELDING: WELDING OF STRUCTURES SHALL BE IN ACCORDANCE WITH THE CURRENT AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES & TRAFFIC SIGNALS.
LONGITUDINAL SEAM WELD IS 60% MINIMUM PENETRATION EXCEPT - 6 INCHES FROM END OF SECTIONS IT IS 100% PENETRATION.
- ON THE FEMALE SECTION OF TELESCOPIC FIELD SPLICES IT IS 100% PENETRATION FOR MINIMUM SPLICE LENGTH PLUS 6 INCHES.

FINISH: ALL COMPONENTS TO BE HOT DIP GALVANIZED AS PER ASTM A123 / A153

MATERIAL DATA (UNLESS OTHERWISE NOTED)	
COMPONENT	GRADE
ALL TAPERED TUBES	ASTM A572 Gr. 50 OR A1011 GR.50
BASE PLATE	ASTM A36
FLANGE PLATES	ASTM A36
PIPE TENONS	ASTM A53 Gr. B
CONNECTING BOLTS	ASTM A325 - Type 1
NUTS	ASTM A563-DH
FLAT WASHERS	ASTM F436
ANCHOR PLATE	ASTM A36
ANCHOR BOLTS	ASTM F1554 GR.105

APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By *GB* Date 6-20-2011

No.	REV'D	FILE No.	DATE	P.D. No.	CUSTOMER	LOCATION
8	ADDED BUTT WELD DETAIL	ECM	06-11		APS	
7	UPDATES PER G. MEI 04-15-06	DM	05-10		APS	
6	UPDATES PER G. MEI 00-11-00	DM	00-08		APS	
5	UPDATES PER T. LACH 00-07-00	DM	00-08		APS	
4	UPDATES PER T. LACH 00-06-00	DM	00-08		APS	
TITLE						
WSDOT TYPE II TRAFFIC STRUCTURE						
65' MAX. MAST ARM LENGTH						
CHANGE BY APP. DATE						
DRAWN BY		S.B.	APP. BY	D.V.L.	WS-T2-H	REV. No. 8
DATE		10-AUG-02	SCALE	N.T.S.		SHT. 1 of 2



EXPIRES 11-17-12