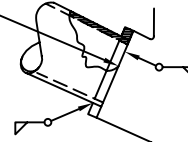


MAXIMUM ALLOWABLE STATIC DEFLECTION AT END OF MAST ARM WITH SIGNAL HEAD ASSEMBLY AND SIGNS INSTALLED SHALL BE 3.5 INCHES (NOT INCLUDING POLE DEFLECTION)

SIGN MOUNTING
10-SQ. FT. WIND LOADING*
AND 85 LB. WEIGHT
AT END OF MAST ARM

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE SIGNED CITY OF OAKLAND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION IS AVAILABLE FOR PURCHASE FROM THE CONTRACT ADMINISTRATION DEPARTMENT.

MAST ARM SHALL EXTEND THRU MOUNTING FLANGE AND SHALL BE WELDED TO BOTH SIDES OF FLANGE



DETAIL "B"

MAST ARM ATTACHMENT TO MOUNTING FLANGE

MAXIMUM ALLOWABLE STATIC DEFLECTION AT TOP OF STANDARD WITH MAST ARM, SIGNAL HEAD ASSEMBLY AND SIGNS INSTALLED SHALL BE 3 INCHES

SEE DETAIL "A"

SIGN MOUNTING
10-SQ. FT. WIND LOADING*
ON MAST ARM AND
MAX. WEIGHT 60 LBS.

END OF MAST ARM SHALL MAINTAIN 2' (MIN.) RISE WITH THE HORIZONTAL AFTER STATIC DEFLECTION

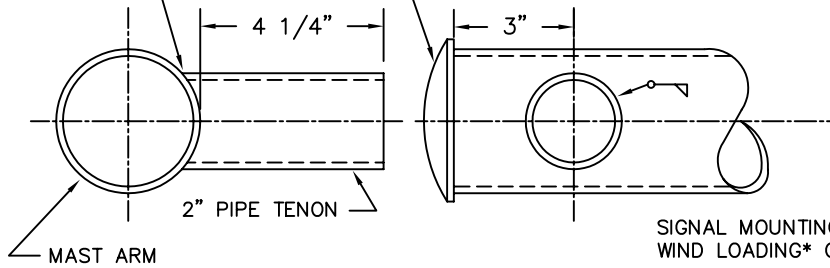
TAPERED SIGNAL MAST
ARM 15' TO 20' (MAXIMUM)
HORIZONTAL SPAN WITH
RAIN TIGHT CONNECTION
AT POLE

SEE DETAIL "B"

WELD 2" PIPE TENON TO SIDE OF MAST ARM NORMALLY DISPLAYED TO TRAFFIC

PROVIDE REMOVABLE CAP FOR END OF MAST ARM

22' NOMINAL MOUNTING HEIGHT



DETAIL "A"
2" PIPE TENON FOR
SIGNAL HEAD MOUNTING

SIGNAL MOUNTING - 7 SQ. FT.
WIND LOADING* ON STANDARD

"POST NO
BILLS" DECAL

FURNISH 4" x 6 1/2" HAND HOLE WITH COVER ON SIDE OF POLE NORMALLY AWAY FROM CURB

FURNISH BASE FLANGE WITH 12 1/2" DIAMETER BOLT CIRCLE
SEE DWGS. E-15, E-16, E-17.

ALL DEAD LOAD DEFLECTION CALCULATIONS SHALL INCLUDE A MINIMUM SAFETY FACTOR OF 1.5 AT ANY POINT ON THE MAST ARM OR STANDARD.

NOTE: 1. THE MATERIAL WILL BE ORDERED WITH EITHER A POWDER COAT FINISH OR GALVANIZED. ALL EXTERIOR SURFACES SHALL BE COATED WITH TRIGLYCIDYL ISOCYANURATE, (TGIC), POLYESTER POWDER, (OR EQUIVALENT), TO A MINIMUM DRY FILM THICKNESS OF 3 MILS. IN ACCORDANCE WITH 5A OR 5B OF ASTM-D33359. THE COLOR SHALL BE THE CITY OF OAKLAND'S, "BOXWOOD GREEN." THE INNER SURFACE SHALL BE COATED WITH A LONG OIL ALKYD TO A MINIMUM DRY FILM THICKNESS OF 2 MILS. GALVANIZING SHALL BE HOT DIPPED IN ACCORDANCE WITH ASTM-A123.

2. BEFORE FABRICATION, THE MANUFACTURER SHALL SUBMIT FOR APPROVAL CALCULATIONS FOR THE STANDARD AND MAST ARM, SUPPORTING THE SPECIFIED SAFETY FACTORS.

3. *WIND LOADING SHALL BE CALCULATED BASED ON 30 POUNDS PER SQUARE FOOT OF PROJECTED AREA.

CITY OF OAKLAND

DESIGN AND CONSTRUCTION SERVICES DEPARTMENT



TRAFFIC SIGNAL STANDARD
22' NOM. MOUNTING
HEIGHT WITH 15' TO 20'
(MAX) MAST ARM

ELECTRICAL SERVICES MANAGER

DATE: OCT 95
REV. DATE: DEC 2002

DRWG.

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