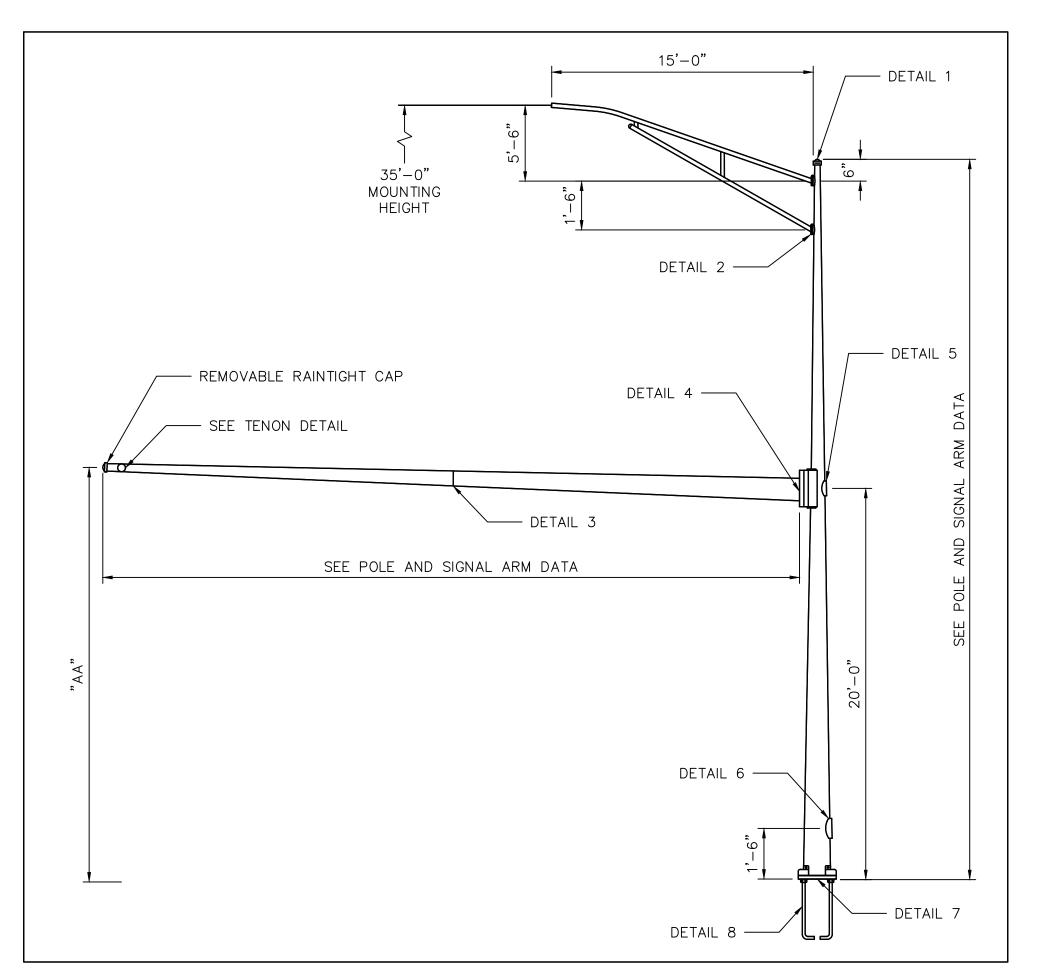
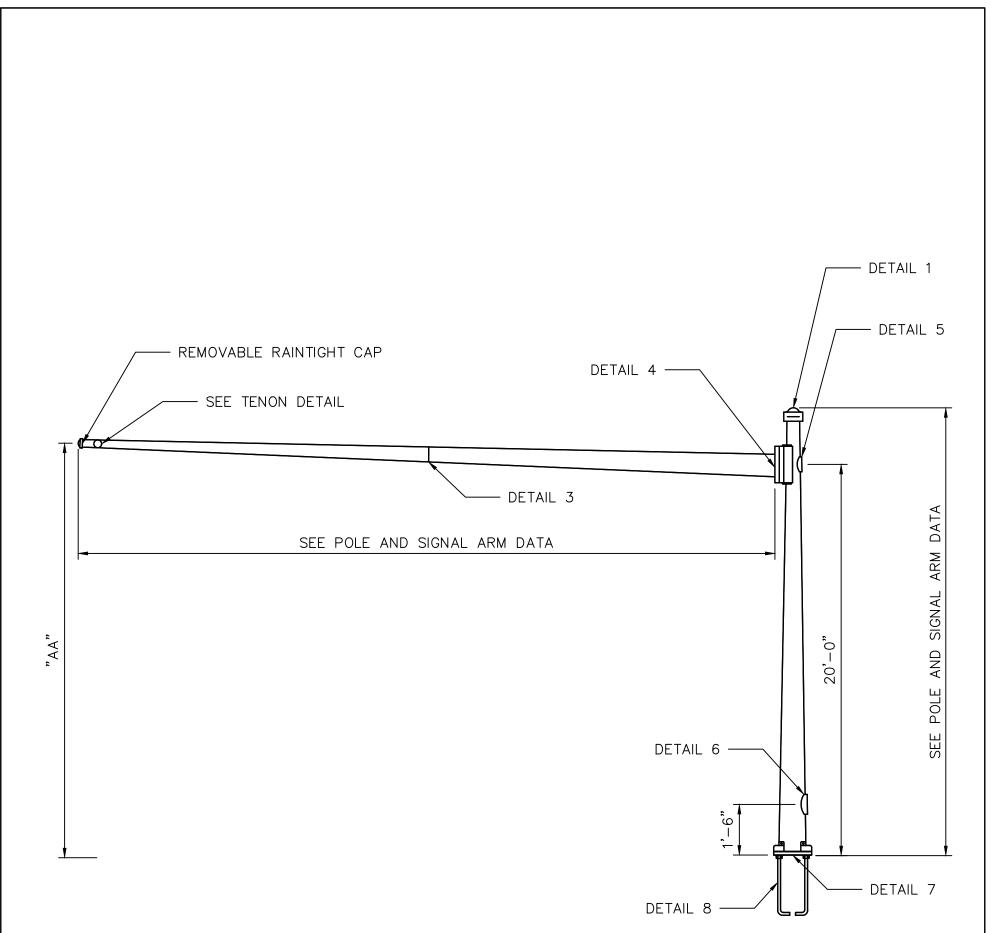
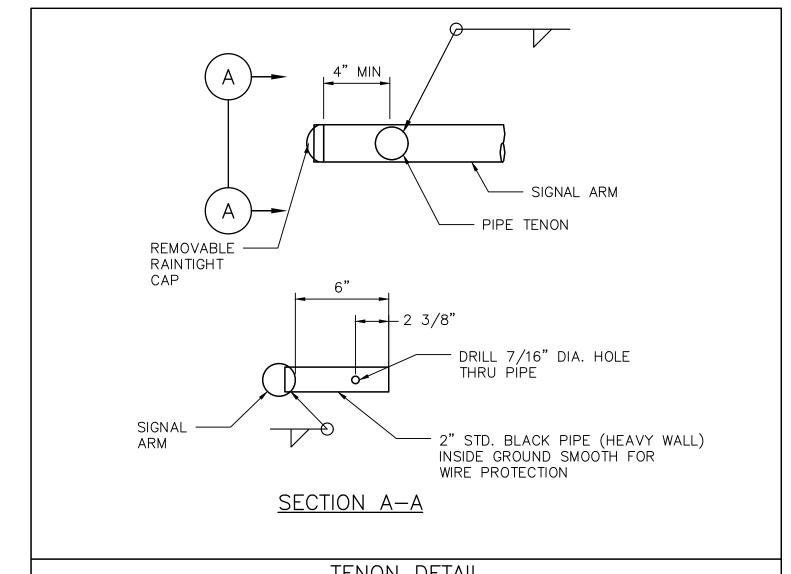
LAIMER: USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZI, RANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUS







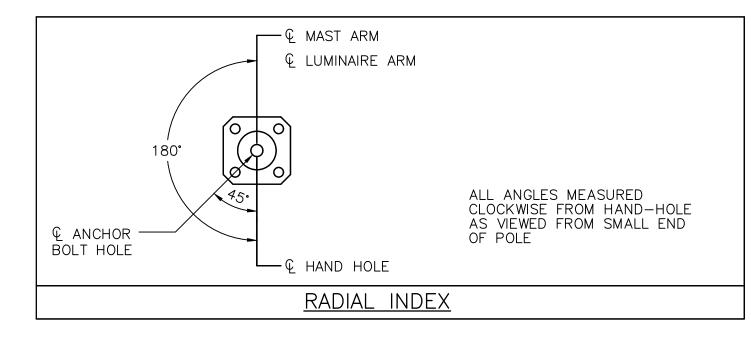
TENON DETAIL

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. ARMS SHALL BE VISUALLY INSPECTED IN 5 TO 20 MPH WIND CONDITIONS AFTER SIGNAL HEAD INSTALLATION AND, IF VERTICAL MOVEMENTS WITH A TOTAL EXCURSION (MAXIMUM POSITIVE TO MAXIMUM NEGATIVE) OF MORE THAN APPROXIMATELY 8 INCHES ARE OBSERVED AT ARM TIP, DAMPING DEVICES OR OTHER MEANS SHALL BE FITTED TO THE ARM(S). THE NECESSARY DAMPING DEVICE(S) OR OTHER REMEDIAL MEASURES SHALL BE AS RECOMMENDED BY THE CONTRACTOR. EXCESSIVE VIBRATIONS SHALL NOT BE ALLOWED TO CONTINUE FOR MORE THAN 2 DAYS.

VIBRATION DISCLAIMER

								POL	_E AND MAS	T ARM DATA											
DESIGNATION KEY POLE TUBE					POLE BASE				ANCHOR BOLT			SIGNAL ARM TUBE									
POLE SERIES	POLE TYPE	SIGNAL ARM SPAN (FT)	BASE DIA. (IN)	TOP DIA. (IN) WITH LUM ARM	TOP DIA. (IN) WITHOUT LUM ARM	LENGTH (FT) WITH LUM ARM	LENGTH (FT) WITHOUT LUM ARM	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)	TIP HEIGHT "AA" (FT)
		25															8.00	3.50	7	25.00	20.2
НОИ	1	30	13.00	8.80	10.00	30.00	21.50	3									9.00	4.80	7	30.00	20.3
		35															10.00	5.10	7	35.00	20.3
		40			19.00 18.00 2.25 2.50 2.25 89.00 7.00 9.00 10.50	4.90	7	40.00	20.3												
HOU	2	45	13.00	8.80	10.00	30.00	21.50	0.375									10.14	3.84	3	45.00	20.4
HOU	2	50	13.00	8.80	10.00	30.00	21.30	0.373									11.00	4.00	3	50.00	20.4
		55															11.50	4.16	DET 3	55.00	20.5

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	
POLE SHAFT — 3 GAUGE	A595 GR.A	55	MAST ARM CONN. BOLTS	F3125 GR A325*		
POLE SHAFT - 0.375"	A572 GR.55	55	LUM. ARM CONN. BOLTS	SAE GR.5	36	
MAST ARM SHAFT	A595 GR.A	55	ANCHOR BOLTS	F1554 GR.55	55	
LUMINAIRE ARM SHAFT	2" SCH. 80 PIPE		GALVANIZING	A123 & A153		
ARM ATTACHMENT PLATE	A36	36				
BASEPLATE	A36	36				



APPROVED BY:	APPROVED BY:
DocuSigned by:	DocuSigned by:
Suliail kanwar 9EF8B0C641F5478	EHING NGUYEN 95A29EFDA75B4CD
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY:	
DocuSigned by: Larof Haddock A93C410B72B3453	
DIRECTOR OF HO	USTON PUBLIC WORKS
EFF DATE: NOV-27-2023	DWG NO: 02582-02
	TIOTIOTION

CITY OF HOUSTON HOUSTON PUBLIC WORKS STANDARD

TRAFFIC SIGNAL STRUCTURES

SHEET 01 OF 02 FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE NOT TO SCALE