

QTY	UMIC DESIGN NUMBER	MAST ARM DATA						MAST ARM FLANGE CONNECTION DATA (in)										QTY GROMMETS	POLE TUBE SIZE	POLE BASE CONNECTION DATA (in)								
		MAX SPAN	TUBE SIZE	JOINT LENGTH	MTG HEIGHT	RISE ANGLE	ORIENT	BOLT SIZE	X	Y1	Y2	W	H	APL	PPL	G	ØCA			WELD TYPE	BC	S	ØCB	F	P	T	WELD TYPE	ANCHOR BOLT SIZE
	50700-B1991-Y1	40'-0"	3E-9.50x3.90x40'-0"	-	20'-0"	3'	180°	1 1/2	8 1/2	15	-	13	19 1/2	2	1 1/2	1/4	-	SOCKET	4	3E-13.00x8.80x30'-0"	19	21	-	9 1/2	9	2	SOCKET	1 1/2 x 70
	50700-B1991-Y2	40'-0"	3E-9.50x3.90x40'-0"	-	20'-0"	3'	180°	1 1/2	8 1/2	15	-	13	19 1/2	2	1 1/2	1/4	-	SOCKET	4	0E-13.50x9.30x30'-0"	19	21	-	9 1/2	9	2	SOCKET	1 1/2 x 70
	50700-B1991-Y3	48'-0"	3E-11.75x9.37x17'-0" 7E-10.01x5.43x32'-9"	1'-9"	20'-0"	3'	180°	1 1/2	11	17 1/2	-	16	22	2	1 1/2	1/4	-	SOCKET	5	3E-15.00x10.80x30'-0"	20	22	-	10	9	2	SOCKET	1 1/2 x 70
	50700-B1991-Y4	48'-0"	3E-11.75x9.37x17'-0" 7E-10.01x5.43x32'-9"	1'-9"	20'-0"	3'	180°	1 1/2	11	17 1/2	-	16	22	2	1 1/2	1/4	-	SOCKET	5	0E-16.00x11.80x30'-0"	22	24 1/2	-	11	10	2	SOCKET	1 3/4 x 70
		48'-0"	3E-11.75x9.37x17'-0" 7E-10.01x5.43x32'-9"	1'-9"	20'-0"	3'	270°	1 1/2	11	17 1/2	-	16	22	2	1 1/2	1/4	-	SOCKET	5									
	50700-B1991-Y5	60'-0"	0E-14.75x10.41x31'-0" 7E-11.09x6.75x31'-0"	2'-0"	20'-0"	3'	180°	1 1/2	14	15	4	20	28	2 1/2	1 3/4	5/16	8	FULL PEN	6	3E-19.50x15.30x30'-0"	25	27 1/2	16 1/2	12 1/2	10	2	FULL PEN	1 3/4 x 70
	50700-B1991-Y6	60'-0"	0E-14.75x10.41x31'-0" 7E-11.09x6.75x31'-0"	2'-0"	20'-0"	3'	180°	1 1/2	14	15	4	20	28	2 1/2	1 3/4	5/16	8	FULL PEN	6	0E-21.00x16.80x30'-0"	27	29 1/2	15 1/2	13 1/2	11	2	FULL PEN	2 x 70
		60'-0"	0E-14.75x10.41x31'-0" 7E-11.09x6.75x31'-0"	2'-0"	20'-0"	3'	270°	1 1/2	14	15	4	20	28	2 1/2	1 3/4	5/16	8	FULL PEN	6									
	50700-B1991-Y7	66'-0"	0E-16.00x11.66x31'-0" 3E-12.48x7.30x37'-0"	2'-0"	20'-0"	3'	180°	1 1/2	17 1/2	16	4	23	29	2 1/2	1 3/4	5/16	8	FULL PEN	7	3E-22.00x17.80x30'-0"	27 1/2	30	18	13 3/4	11	2	FULL PEN	2 x 70
	50700-B1991-Y8	66'-0"	0E-16.00x11.66x31'-0" 3E-12.48x7.30x37'-0"	2'-0"	20'-0"	3'	180°	1 1/2	17 1/2	16	4	23	29	2 1/2	1 3/4	5/16	8	FULL PEN	7	0E-23.00x18.80x30'-0"	29	32	18 1/2	14 1/2	12 1/4	2 1/4	FULL PEN	2 1/4 x 70
		66'-0"	0E-16.00x11.66x31'-0" 3E-12.48x7.30x37'-0"	2'-0"	20'-0"	3'	270°	1 1/2	17 1/2	16	4	23	29	2 1/2	1 3/4	5/16	8	FULL PEN	7									

7 GA = 0.179" WALL THICKNESS
3 GA = 0.250" WALL THICKNESS
0 GA = 0.313" WALL THICKNESS
E = ROUND TAPERED STEEL TUBE @ 0.14 in/ft TAPER

DESIGN CRITERIA:

- DESIGNED IN ACCORDANCE WITH 2013 AASHTO (APPENDIX C) "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION (LTS-6), 2013 WITH 2015 INTERIMS" FOR 80 MPH WIND ZONE.
- DESIGNS Y1 THRU Y4 DO NOT REQUIRE FATIGUE STRESS CALCULATION FACTOR.
- FOR POLES WITHOUT LUMINAIRE, THE HEIGHT OF POLE SHALL BE 2'-0" ABOVE THE TOP OF THE ARM CONNECTON PLATE.
- ANCHOR BOLTS ANALYZED FOR STEEL STRENGTH ONLY. THE ANCHOR BOLT EMBEDMENT LENGTH SHOWN ON THIS DRAWING SHALL BE VERIFIED BY THE FOUNDATION ENGINEER.
- THE EXPOSED LENGTH OF THE ANCHOR BOLT BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE LEVELING NUT SHOULD NOT EXCEED ONE BOLT DIAMETER.
- ALL WELDING SHALL BE IN ACCORDANCE WITH SECTIONS 1 THRU 8 OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 STRUCTURAL WELDING CODE.
- ASTM F959 GALVANIZED DTI WASHERS SHALL BE FURNISHED WITH HIGH STRENGTH BOLTS FOR MAST ARM CONNECTIONS. ASTM F2437 GALVANIZED DTI WASHERS SHALL BE FURNISHED WITH ANCHOR BOLTS FOR POLE BASE CONNECTIONS. CONTRACTOR TO PROVIDE PROPER DTI FEELER GAGES.
- VIBRATION IS MORE LIKELY TO OCCUR WHEN STRUCTURES ARE INSTALLED WITHOUT ATTACHING THE SIGNALS AND OR SIGNS. THEREFORE, THE INTENDED EQUIPMENT OR DAMPENING DEVICES MUST BE INSTALLED AT THE TIME OF ERECTION. BECAUSE VIBRATION IS GENERALLY UNPREDICTABLE, A MAINTENANCE PROGRAM SHOULD INCLUDE INSPECTION FOR INDICATIONS OF EXCESSIVE VIBRATION OR FATIGUE AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING.
- CUSTOMER TO CONFIRM ALL DIMENSIONS & ORIENTATIONS BEFORE RELEASING ORDER FOR MANUFACTURING.

MATERIAL SPECIFICATIONS

TAPERED TUBE	ASTM A595 GR A
PLATE	ASTM A36
BAR HANDHOLE FRAME	ASTM A529 GR 50 or ASTM A572 GR 50 or ASTM A500 GR B
HANDHOLE COVER	ASTM A1011 or A36
ANCHOR BOLTS	ASTM F1554 GR 55
ANCHOR BOLT NUTS	ASTM A563 GR A
FLAT WASHERS	ASTM F436
DTI WASHERS (ARM CONNECTION)	ASTM F959
DTI WASHERS (POLE CONNECTION)	ASTM F2437
CAN COVERS	ASTM B26 (319F or 356.0F)
ARM CONN. BOLTS	ASTM F3125 GRADE A325
ARM JOINT STUD	ASTM A36
"ANCO" LOCK NUTS	ASTM A563 GR DH
POLE TOP/ARM END CAP	ASTM B26 (356.0F) or A1011
PIPE	ASTM A500 GR B or A53 GR B
S.S. HARDWARE	AISI-300 SERIES (18-8)
STRUCTURE FINISH	H.D. GALV TO ASTM A123 & POWDER COAT BLACK
HARDWARE FINISH	H.D. GALV TO ASTM A153

R2	UPDATED TO UMIC	9/20/18	KS	KS
R1.1	SHEET 2: ADDED LUMINAIRE ARM ORIENTATION NOTE SHEET 3: ADDED LUMINAIRE ARM CONNECTION DETAIL	8/2/17	JW	JW
R1	SHEET 1: CHANGED STRUCTURE FINISH IN MATERIAL SPECIFICATIONS SHEET 3: CORRECTED TEMPLATE TO 6 HOLE PATTERN & CORRECTED TEMPLATE I.D. & O.D. FOR Y6	7/18/17	JW	JW

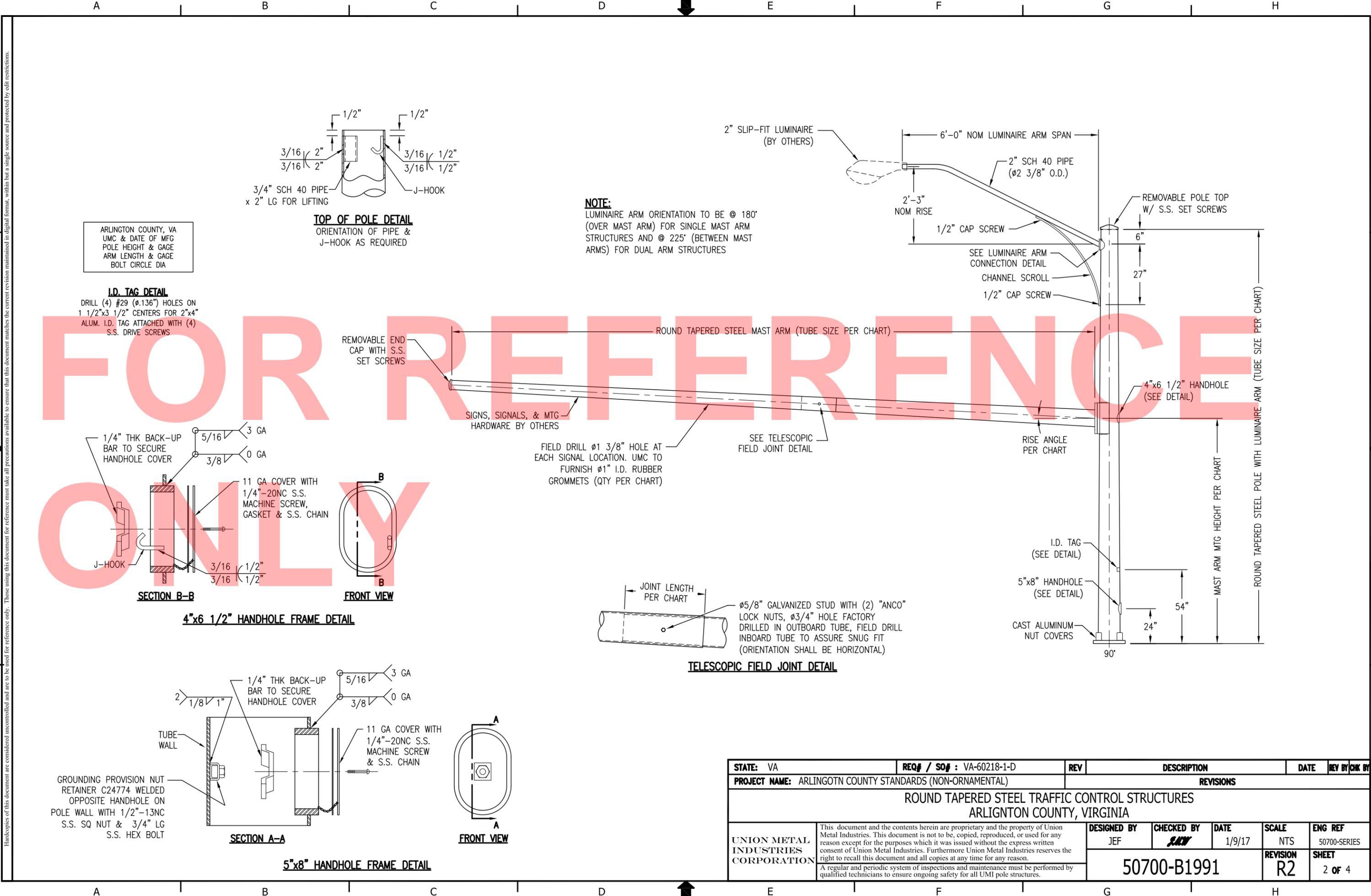
STATE: VA	REQ# / SO# : VA-60218-1-D	REV	DESCRIPTION	DATE	REV BY	CHK BY	
PROJECT NAME: ARLINGTON COUNTY STANDARDS (NON-ORNAMENTAL)		REVISIONS					
ROUND TAPERED STEEL TRAFFIC CONTROL STRUCTURES ARLINGTON COUNTY, VIRGINIA							
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	A regular and periodic system of inspections and maintenance must be performed by qualified technicians to ensure ongoing safety for all UMI pole structures.		JEF	JW	1/9/17	NTS	50700-SERIES
			50700-B1991		REVISION	SHEET	
					R2	1 OF 4	

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ARLINGTON COUNTY, VA
 UMC & DATE OF MFG
 POLE HEIGHT & GAGE
 ARM LENGTH & GAGE
 BOLT CIRCLE DIA

I.D. TAG DETAIL
 DRILL (4) #29 (Ø.136") HOLES ON
 1 1/2"x3 1/2" CENTERS FOR 2"x4"
 ALUM. I.D. TAG ATTACHED WITH (4)
 S.S. DRIVE SCREWS

TOP OF POLE DETAIL
 ORIENTATION OF PIPE &
 J-HOOK AS REQUIRED

NOTE:
 LUMINAIRE ARM ORIENTATION TO BE @ 180°
 (OVER MAST ARM) FOR SINGLE MAST ARM
 STRUCTURES AND @ 225° (BETWEEN MAST
 ARMS) FOR DUAL ARM STRUCTURES

SECTION B-B
4"x6 1/2" HANDHOLE FRAME DETAIL

FRONT VIEW

4"x6 1/2" HANDHOLE FRAME DETAIL

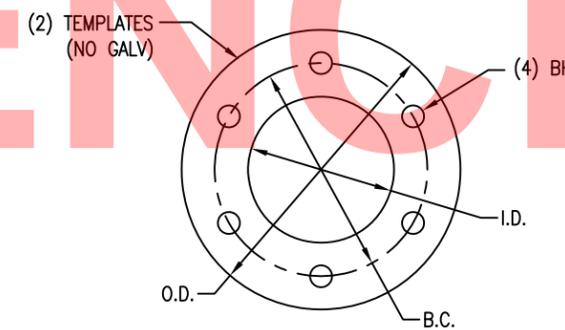
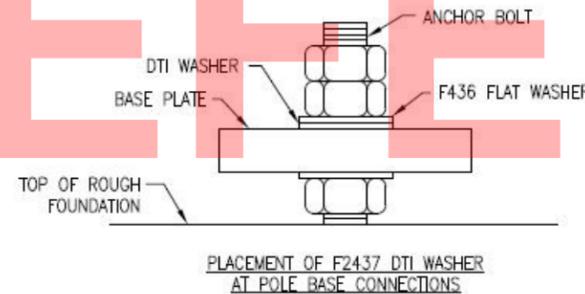
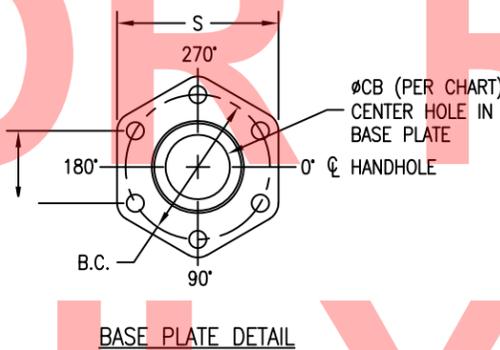
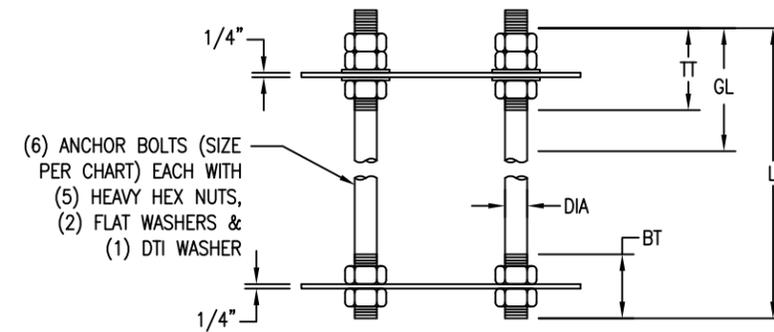
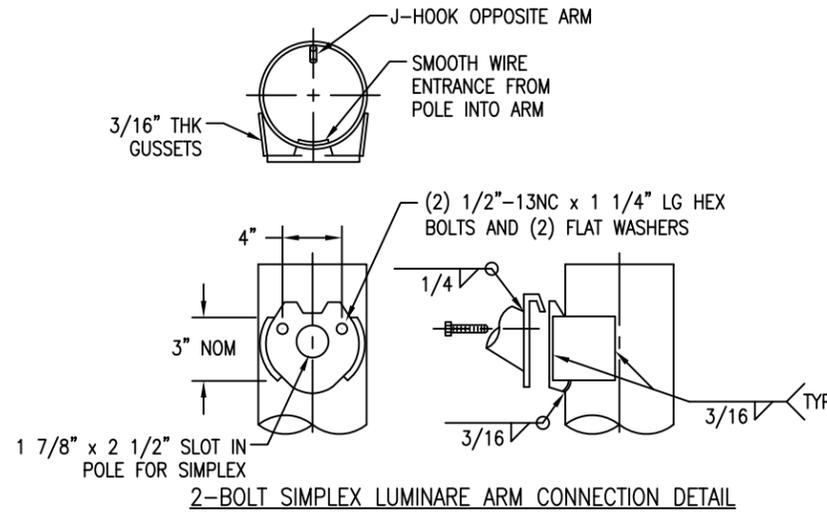
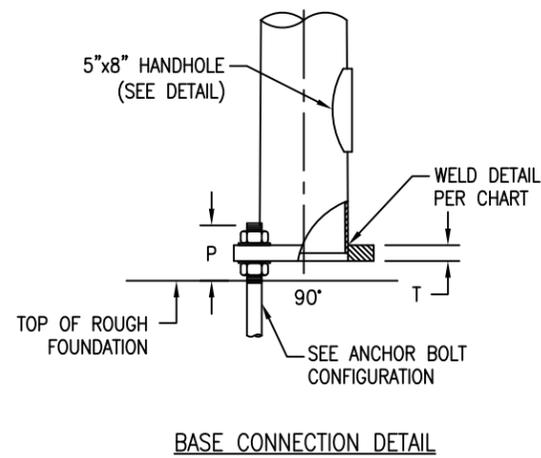
TELESCOPIC FIELD JOINT DETAIL

SECTION A-A

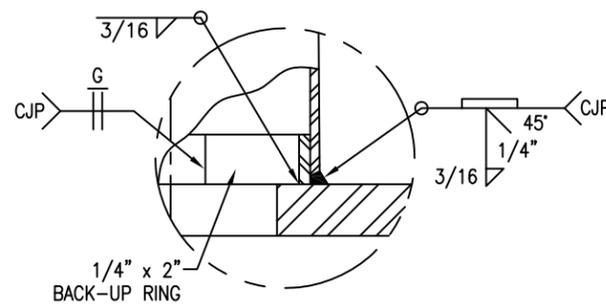
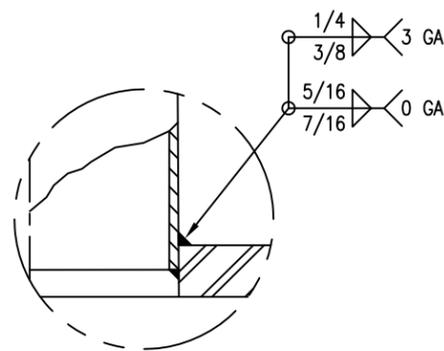
FRONT VIEW

5"x8" HANDHOLE FRAME DETAIL

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ROUND TAPERED STEEL TRAFFIC CONTROL STRUCTURES ARLINGTON COUNTY, VIRGINIA					
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	A regular and periodic system of inspections and maintenance must be performed by qualified technicians to ensure ongoing safety for all UMI pole structures.			DATE 1/9/17	SCALE NTS
50700-B1991				REVISION R2	ENG REF 50700-SERIES SHEET 2 OF 4



ANCHOR BOLT & TEMPLATE DATA									
DESIGN	DIA	L	TT	BT	GL	B.C.	I.D.	O.D.	BH
Y1 & Y2	1 1/2	70	10	5	FULL	19	16	22	1 9/16
Y3	1 1/2	70	10	5	FULL	20	17	23	1 9/16
Y4	1 3/4	70	11	5	FULL	22	18 1/2	25 1/2	1 13/16
Y5	1 3/4	70	11	5	FULL	25	21 1/2	28 1/2	1 13/16
Y6	2	70	12	6	FULL	27	23	31	2 1/16
Y7	2	70	12	6	FULL	27 1/2	23 1/2	31 1/2	2 1/16
Y8	2 1/4	70	14	6	FULL	29	24 1/2	33 1/2	2 5/16



POLE BASE SOCKET WELD
DETAIL (PER CHART)

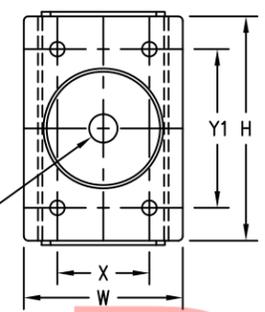
POLE BASE & ARM
FLANGE FULL PEN WELD
DETAIL (PER CHART)

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	A regular and periodic system of inspections and maintenance must be performed by qualified technicians to ensure ongoing safety for all UMI pole structures.	JEF	EMW	1/9/17	NTS
50700-B1991				REVISION	ENG REF
				R2	50700-SERIES
					SHEET 3 OF 4

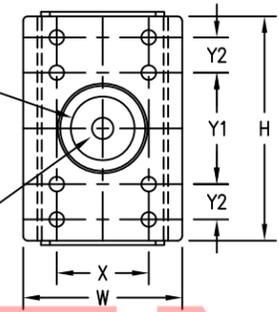
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(4) HEX HD CONNECTION BOLTS (SIZE PER CHART) EACH W/ (1) FLAT WASHER & (1) DTI WASHER



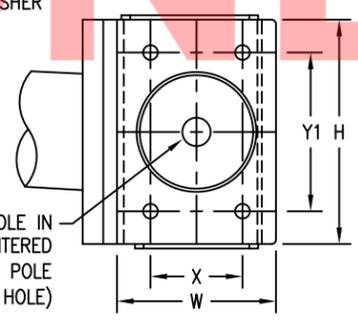
SINGLE MAST ARM CONNECTION DETAIL (4-BOLT)
(Y1 & Y3 ONLY)

(8) HEX HD CONNECTION BOLTS (SIZE PER CHART) EACH W/ (1) FLAT WASHER & (1) DTI WASHER



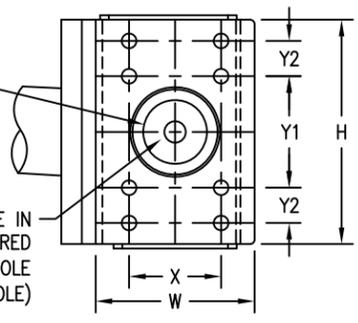
SINGLE MAST ARM CONNECTION DETAIL (8-BOLT)
(Y5 & Y7 ONLY)

(8) HEX HD CONNECTION BOLTS (SIZE PER CHART) EACH W/ (1) FLAT WASHER & (1) DTI WASHER

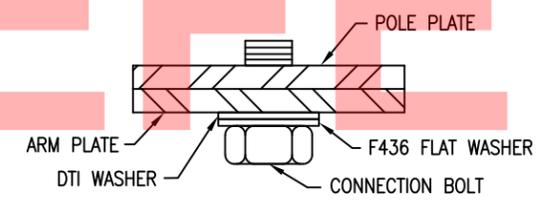


DUAL MAST ARM CONNECTION DETAIL (4-BOLT)
(Y2 & Y4 ONLY)

(16) HEX HD CONNECTION BOLTS (SIZE PER CHART) EACH W/ (1) FLAT WASHER & (1) DTI WASHER



DUAL MAST ARM CONNECTION DETAIL (8-BOLT)
(Y6 & Y8 ONLY)



PLACEMENT OF F959 DTI WASHER

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50700-B1991				REVISION R2	ENG REF 50700-SERIES SHEET 4 OF 4

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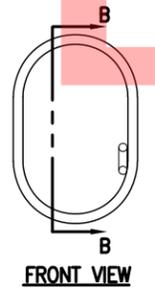
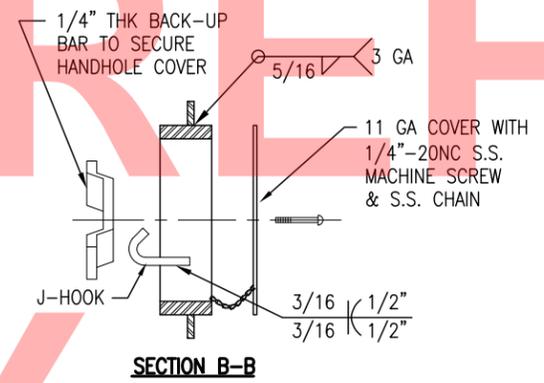
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DESIGN CRITERIA:

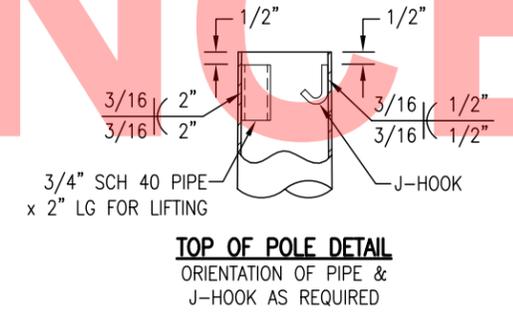
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ARM CONN. BOLTS	ASTM F3125 GRADE A325
POLE TOP/ARM END CAP	ASTM B26 or A1011
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HARDWARE FINISH	H.D. GALV TO ASTM A153



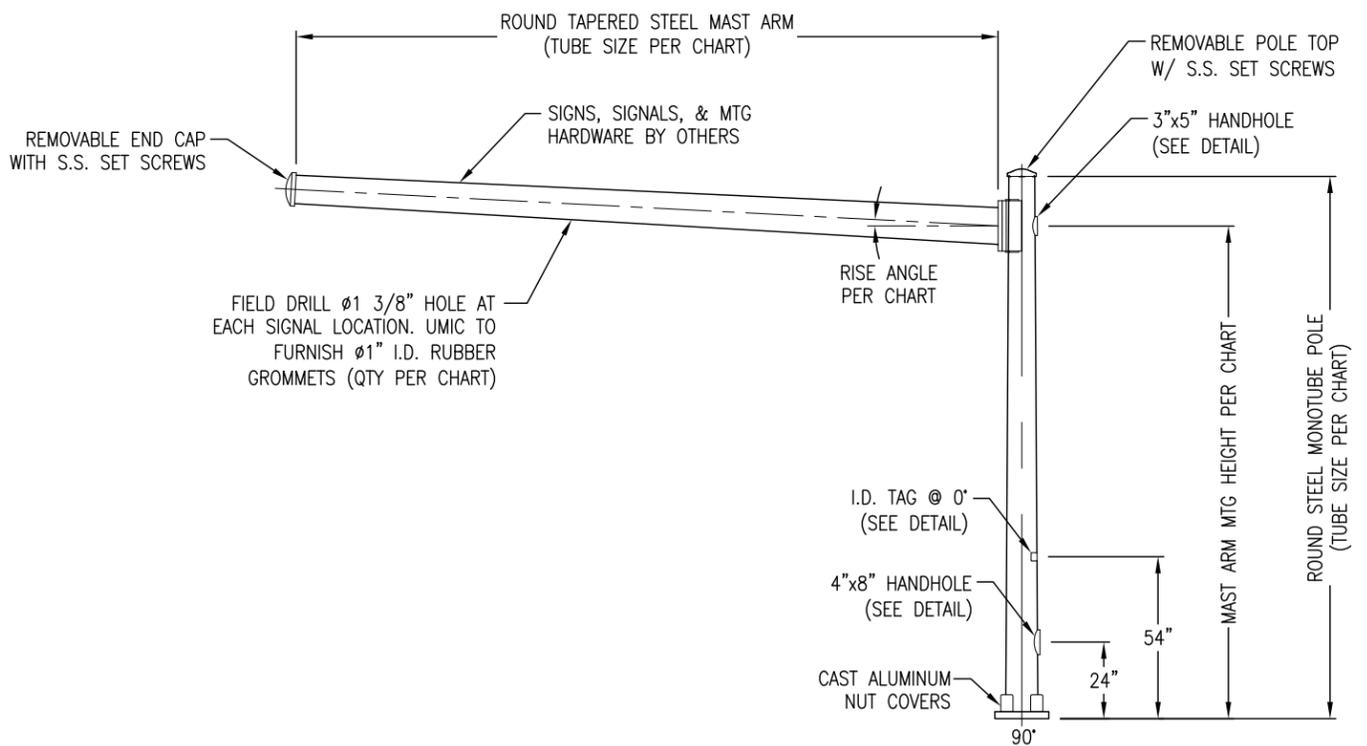
3"x5" HANDHOLE FRAME DETAIL



TOP OF POLE DETAIL
ORIENTATION OF PIPE & J-HOOK AS REQUIRED

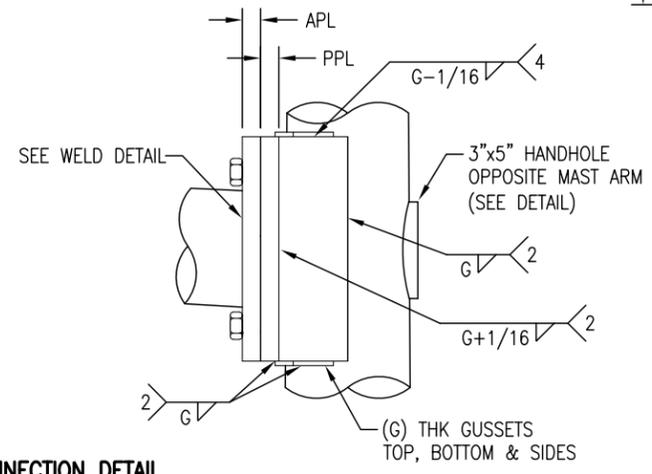
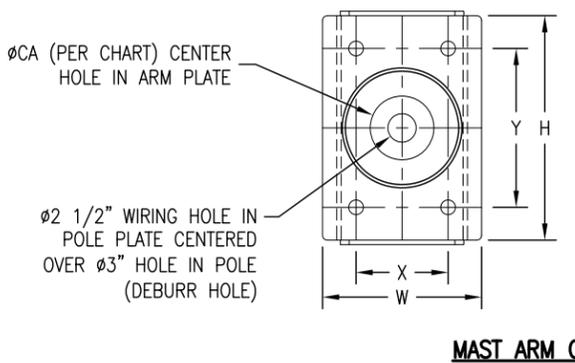
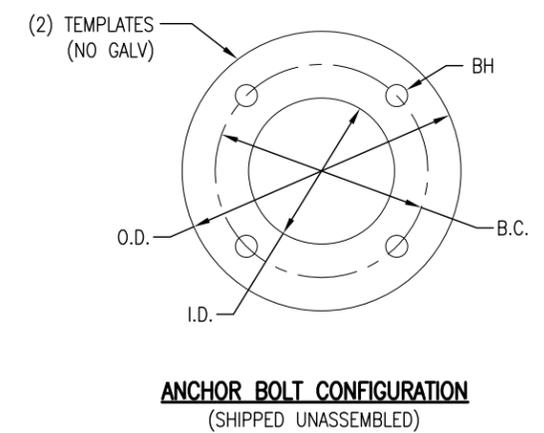
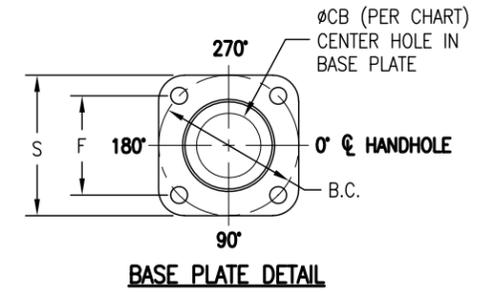
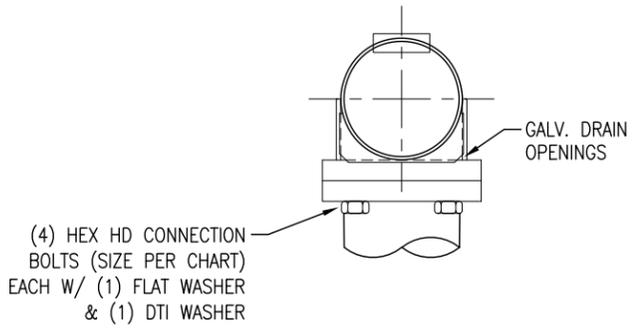
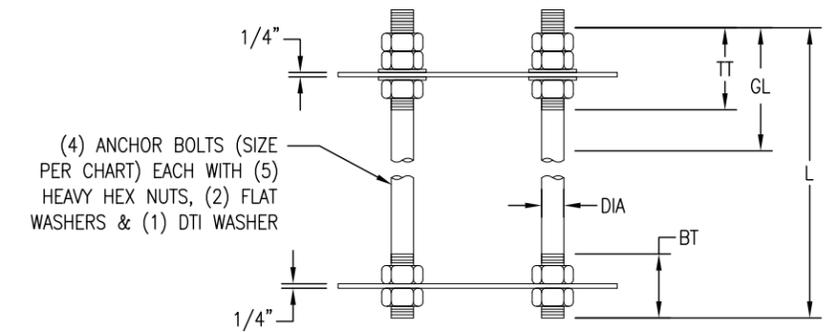
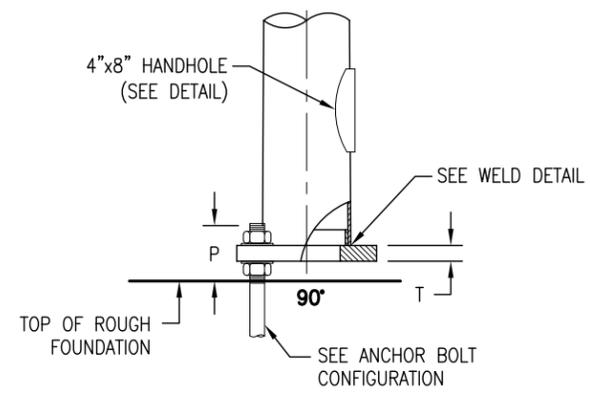
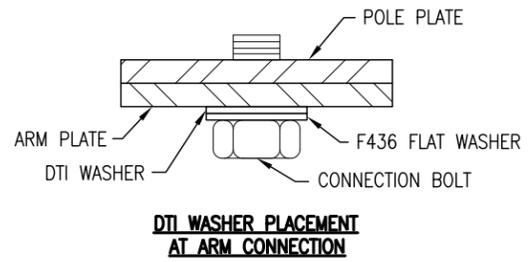
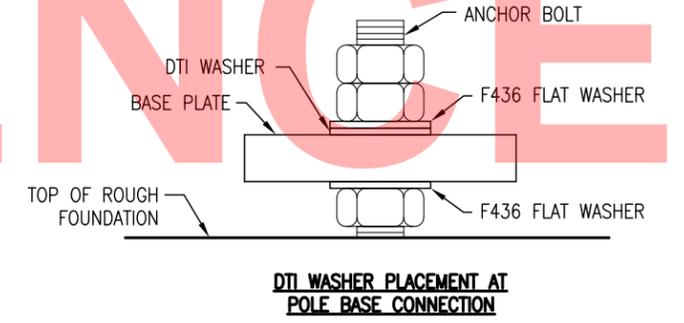
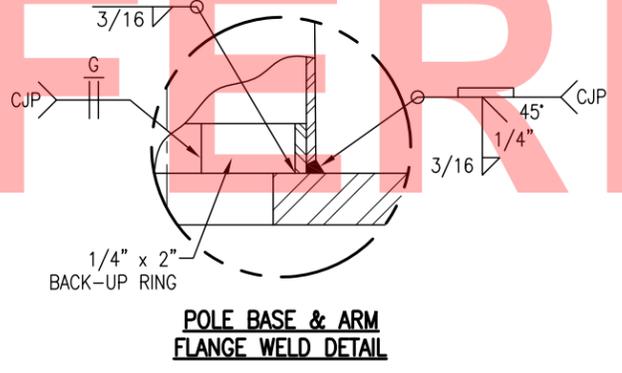
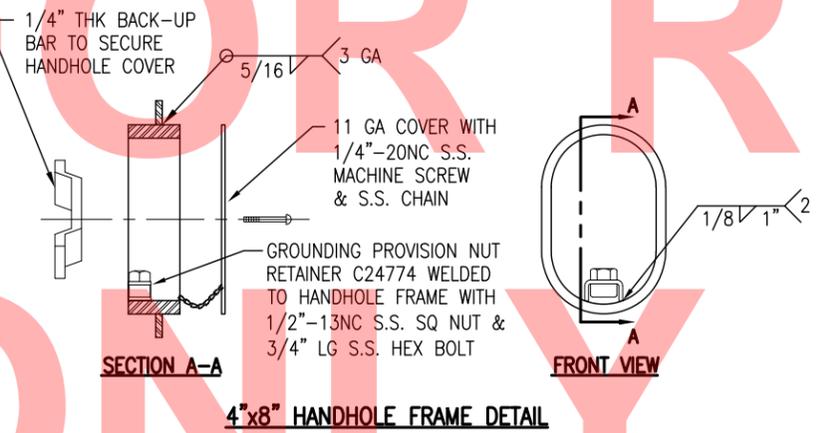
ARLINGTON COUNTY, VA
UMIC & DATE OF MFG
POLE HEIGHT & GAGE
ARM LENGTH & GAGE
BOLT CIRCLE DIA

I.D. TAG DETAIL
DRILL (4) #29 (Ø.136") HOLES ON
1 1/2"x3 1/2" CENTERS FOR 2"x4"
ALUM. I.D. TAG ATTACHED WITH (4)
S.S. DRIVE SCREWS



STATE: VA	REQ# / SO# : VA-66263-2	REV	DESCRIPTION	DATE	REV BY/CHK BY
PROJECT NAME: S FILLMORE ST & 2ND ST. S			REVISIONS		
ROUND TAPERED STEEL TRAFFIC CONTROL STRUCTURES ARLINGTON COUNTY, VIRGINIA					
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	A regular and periodic system of inspections and maintenance must be performed by qualified technicians to ensure ongoing safety for all UMI pole structures.		MDZ	JSP	8/27/21
			SCALE	ENG REF	
			50700-B2355	NTS	50700-1991
			REVISION	SHEET	
			R0	1 of 2	

FOR REFERENCE ONLY



ANCHOR BOLT & TEMPLATE DATA									
DESIGN	DIA	L	TT	BT	GL	B.C.	I.D.	O.D.	BH
Y1	1 1/4	70	9	5	FULL	12	10	14	1 5/16

STATE: VA	REQ# / SO# : VA-66263-2	REV	DESCRIPTION	DATE	REV BY/CHK BY
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			R0	2 OF 2	