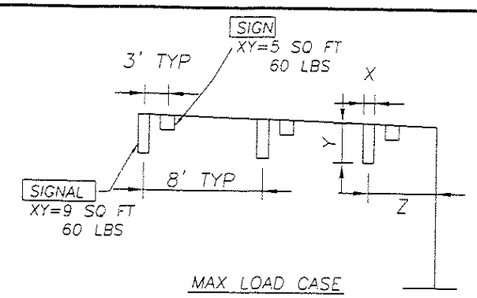
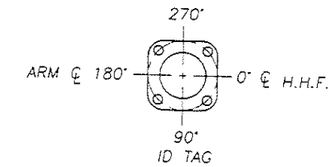
MATERIAL SPECIFICATION	
MONOTUBES any t	ASTM-A595 GR.A
or 0.23 <=t<= 0.3125	ASTM-A572 GR.55
or t < 0.23	ASTM-A607 GR.55 CL II /AKA/ ASTM-A1011 HSLAS GR.55 CL II (dual certification)
PLATES	ASTM-A36
PIPE	ASTM-A53 GR.B OR A501
CONNECTING BOLTS	ASTM-A325
FLAT WASHER	ASTM-F436
ANCHOR BOLTS	ASTM-A449
A. BOLT NUTS	ASTM-A563 GR. DH
STRUCTURE FINISH	H.D. GALV TO ASTM-A123
HARDWARE FINISH	H.D. GALV TO ASTM-A153



MAX LOAD CASE



PLAN VIEW

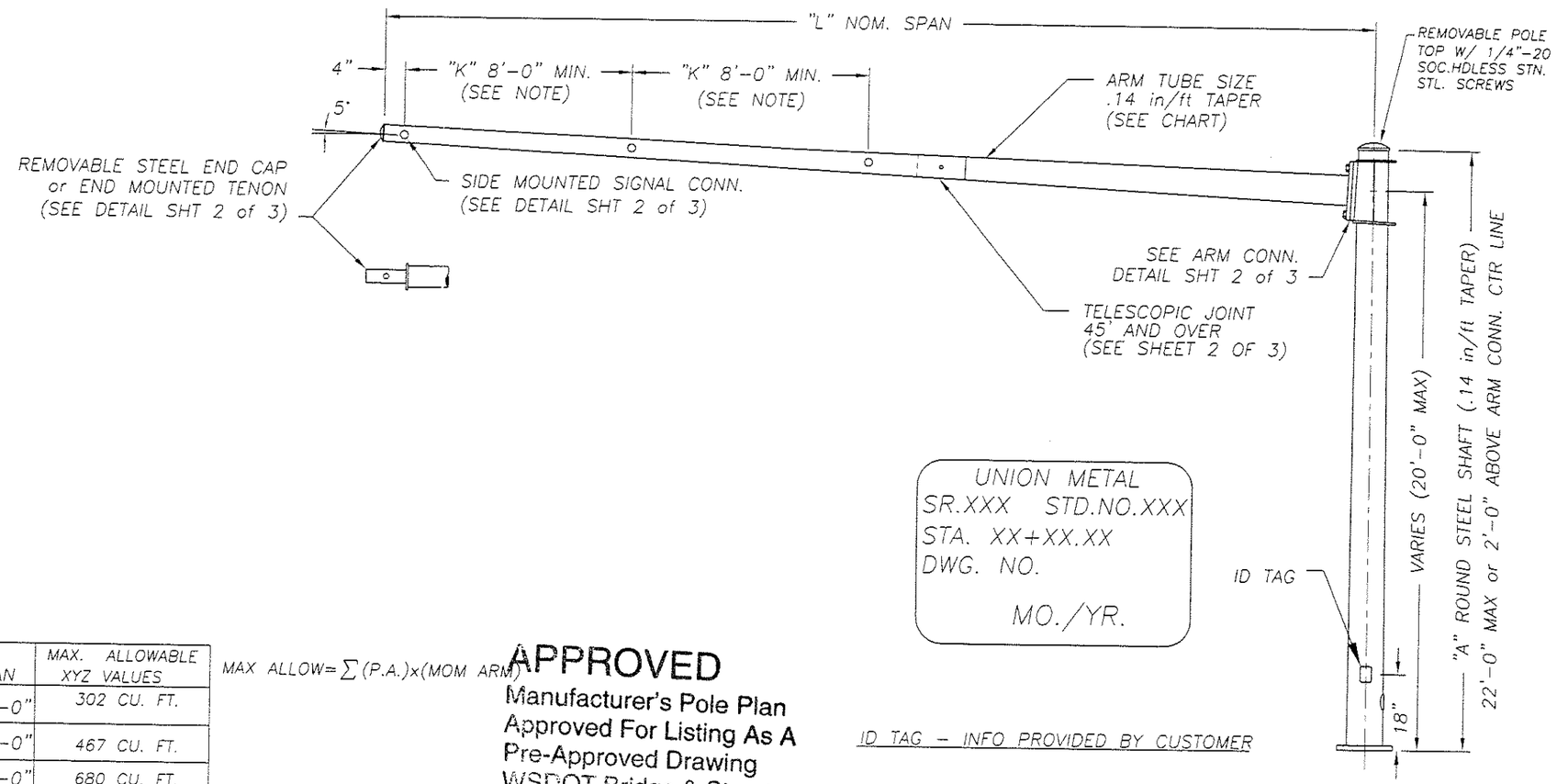
RATING NOTE: FOR MAX ALLOWABLE XYZ VALUE AS CHARTED.

DESIGNED PER 2001 AASHTO
BASIC WIND SPEED: 90MPH
DESIGN LIFE: 25 YEARS
FATIGUE CATEGORY: III
GALLOPING LOADS: YES (Ir=0.30)
TRUCK GUSTS: YES (Ir=0.68)
NATURAL WIND: YES (Ir=0.59)
CAFL AT CRITICAL CONNECTIONS:
POLE TO BASE PLATE CONNECTION
A. SOCKET DETAIL W/ FILLET WELD=E
B. FULL PENETRATION WELD=D
ARM TO PLATE CONNECTION:
A. SOCKET DETAIL W/ FILLET WELD=E
B. FULL PENETRATION WELD=D
FLANGE GUSSETS=E'
POLE WALL AT FLANGE GUSSETS=E'
POLE JUST BELOW FLANGE BOX=E
POLE SHAFT=B'
TELESCOPIC JOINT=B

NOTE: (SAMPLE DESIGN)
35'-0" @ 17' SIGNAL ARM END MOUNTED & SPACED 10'-0" & 22'-0" FROM OUTBOARD END,
71026-B86-Y5-35EK10K12. IF OUTBOARD SIGNAL IS SIDE MOUNTED, USE 71026-B86-Y5-SK10K12-35@17

"E" SIGNIFIES END MOUNTED SIGNAL CONN.
"S" SIGNIFIES SIDE MOUNTED SIGNAL CONN.
"L" (ARM) LENGTH
ARM CONN. MTG HGT

WELDING NOTE:
"WELDING PER AWS D1.1 STRUCTURAL WELDING CODE, 2002 AND SECTION 1.4.2 OF THE SPECIFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS,LUMINAIRES AND TRAFFIC SIGNALS, AASHTO 2001, 90MPH."



UNION METAL
SR.XXX STD.NO.XXX
STA. XX+XX.XX
DWG. NO.
MO./YR.

ID TAG - INFO PROVIDED BY CUSTOMER

U.M. DESIGN NUMBER	"A" ROUND STEEL SHAFT	ARM TUBE SIZE	L SPAN	MAX. ALLOWABLE XYZ VALUES
71026-B86-Y1	0E-14.0x10.92x22'-0" 0.313" WALL THICKNESS	7E-9.0x6.90x15'-0"	15'-0"	302 CU. FT.
71026-B86-Y2		7E-9.0x6.2x20'-0"	20'-0"	467 CU. FT.
71026-B86-Y3		7E-10.0x6.5x25'-0"	25'-0"	680 CU. FT.
71026-B86-Y4		7E-10.0x5.80x30'-0"	30'-0"	890 CU. FT.
71026-B86-Y5		3E-10.0x5.10x35'-0"	35'-0"	1071 CU. FT.
71026-B86-Y6		3E-11.0x5.4x40'-0"	40'-0"	1318 CU. FT.
71026-B86-Y7		3E-12.0x8.5x25'-0" 7E-9.14x6.1x21'-9"	45'-0"	1500 CU. FT.
71026-B86-Y8	0E-17.5x14.42x22'-0" 0.313" WALL THICKNESS	3E-13.0x9.50x25'-0" 7E-10.14x6.40x26'-9"	50'-0"	1740 CU. FT.
71026-B86-Y9		3E-15.5x11.72x27'-0" 7E-12.40x8.20x30'-0"	55'-0"	2200 CU. FT.
71026-B86-Y10		3E-15.5x11.72x27'-0" 7E-12.40x7.50x35'-0"	60'-0"	2600 CU. FT.
71026-B86-Y11		0E-15.0x11.22"x27'-0" 3E-12.04x6.44x40'-0"	65'-0"	2900 CU. FT.

MAX ALLOW= $\sum$(P.A.)x(MOM ARM)

APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 1/20/2004

STATE OF OHIO
JOHN M. FRITZ
E-62406
REGISTERED PROFESSIONAL ENGINEER
1/26/03

R04	0873-07-5	CHANGED CONNECITON BOLT LENGTH ON Y8-Y11 (CUSTOMER REQUEST). A.BOLT PLATE NOTE	11/21/03	LCV lcv
R03	0873-07-4	REVISED ANCHOR BOLT NOTE ADDED DETAIL FOR HANDHOLE FRAME REVISED FLANGE CONNECTION	10/3/03	LCV cxc
R02	0873-07-3	FLANGE CONNECTION TO WRAP-AROUND GUSSETS REVISED SIZING DUE TO STRONGER FLANGE BOX	8/11/03	LCV cxc

REVISIONS

TYPE II STEEL TRAFFIC POLE
FOR
STATE OF WASHINGTON D.O.T.

LOF ---- ENG.REF.# 71026-B34
REQ.# 0873-07-1 S.O.# ------ CAD# ----

Union Metal CORPORATION R04

DRAWN LCV
DATE 2/12/03
CHECKED EBL

DRAWING NO.
71026-B86
SHT. 1 OF 3

ORIGINAL