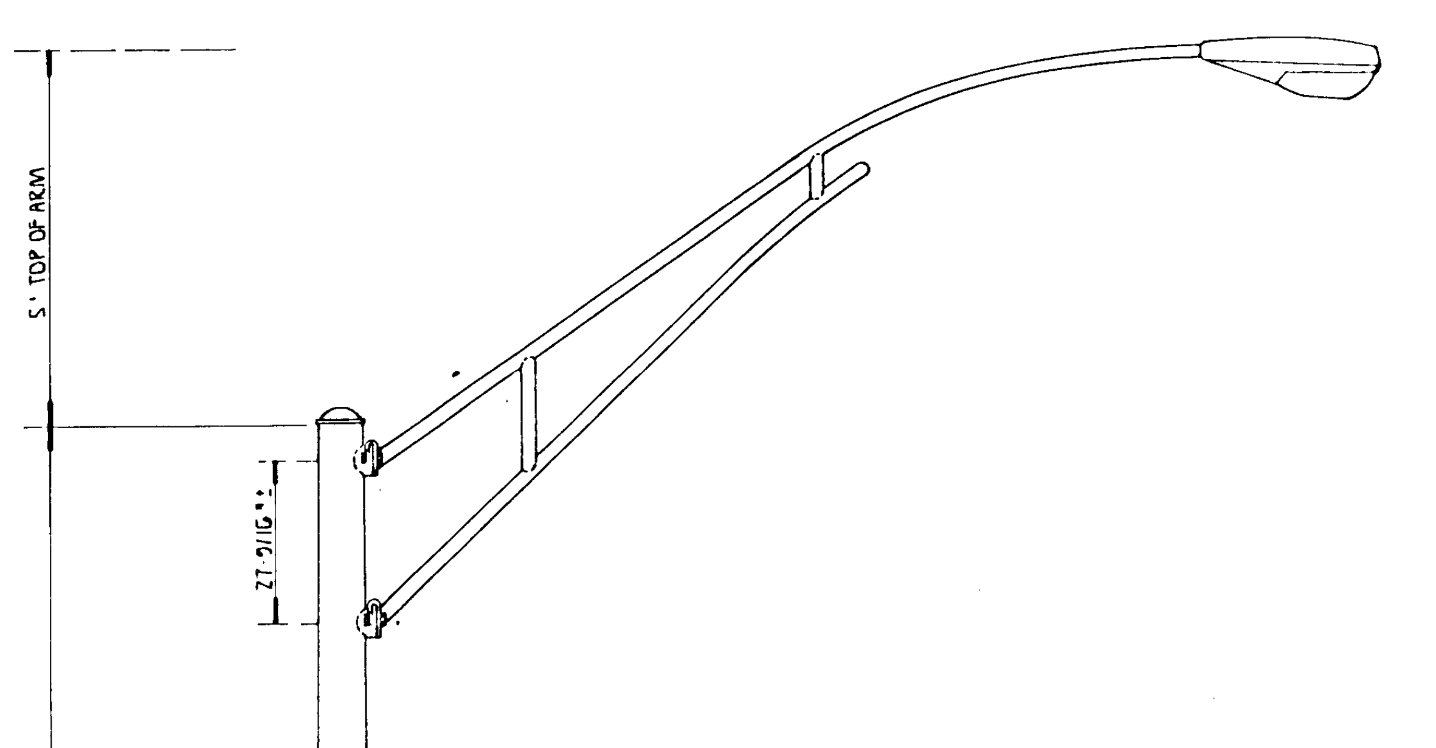
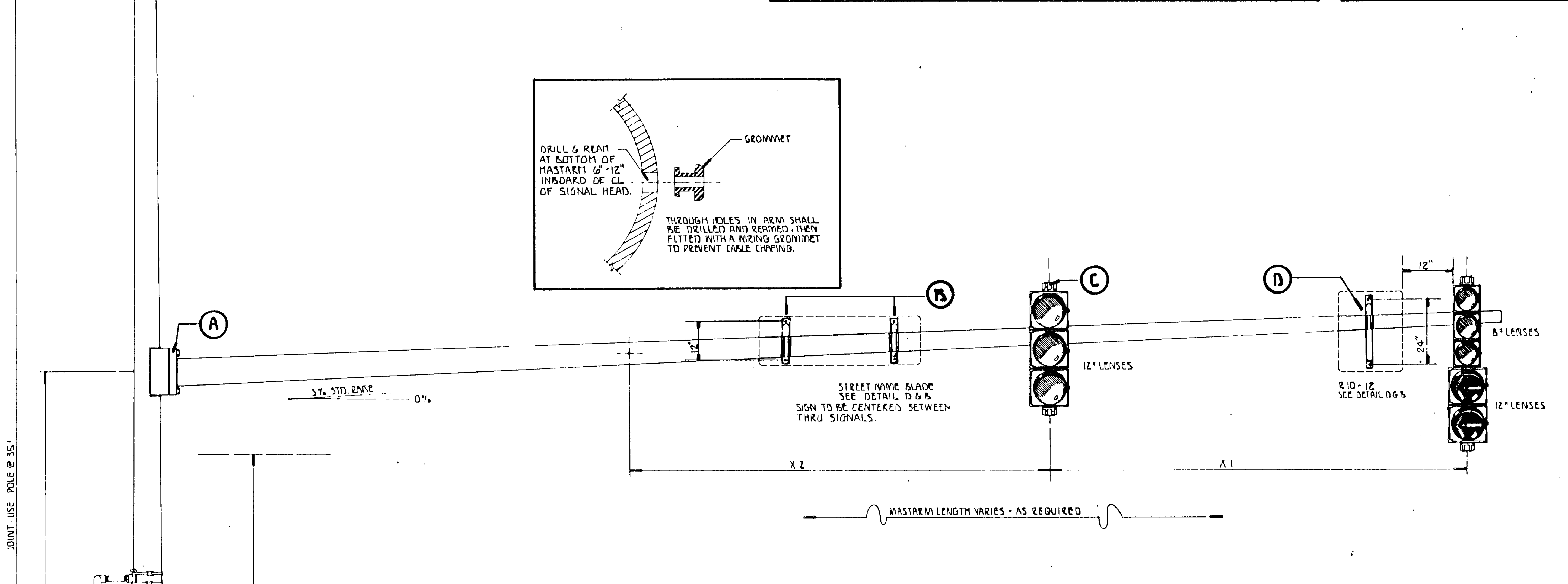


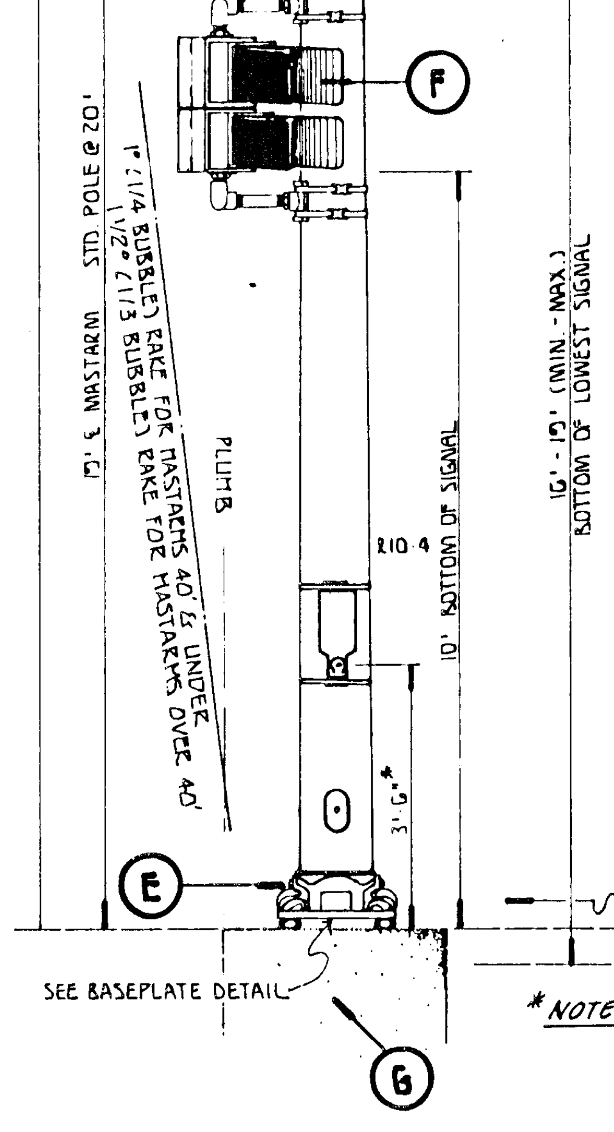

5' TOP OF ARM
27-9/16"±
JOINT-USE POLE @ 35'
A
3% STD. RAKE
0%
B
C
D
12"
12" LENSES
8" LENSES
12" LENSES
24"
X 2
X 1
MASTARM LENGTH VARIES - AS REQUIRED
GROMMET

DRILL & REAM AT BOTTOM OF MASTARM 6"-12" INBOARD OF CL OF SIGNAL HEAD.

THROUGH HOLES IN ARM SHALL BE DRILLED AND REAMED, THEN FITTED WITH A WIRING GROMMET TO PREVENT CABLE CHAFING.

STREET NAME BLADE
SEE DETAIL D & B
SIGN TO BE CENTERED BETWEEN THRU SIGNALS.

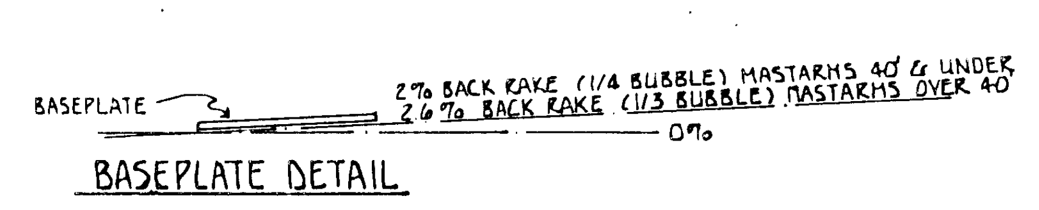
R10-12
SEE DETAIL D & B


15' ℄ MASTARM
STD. POLE @ 20'
1° (1/4 BUBBLE) RAKE FOR MASTARMS 40' & UNDER
1 1/2° (1/3 BUBBLE) RAKE FOR MASTARMS OVER 40'
PLUMB
F
R10-4
10' BOTTOM OF SIGNAL
3'-6"*
E
G
16'-19' (MIN.-MAX.) BOTTOM OF LOWEST SIGNAL

℄ POLE TO BACK OF CURB VARIABLE WITH EACH SIGNAL PLAN (6' NORM. MIN.)

SEE BASEPLATE DETAIL

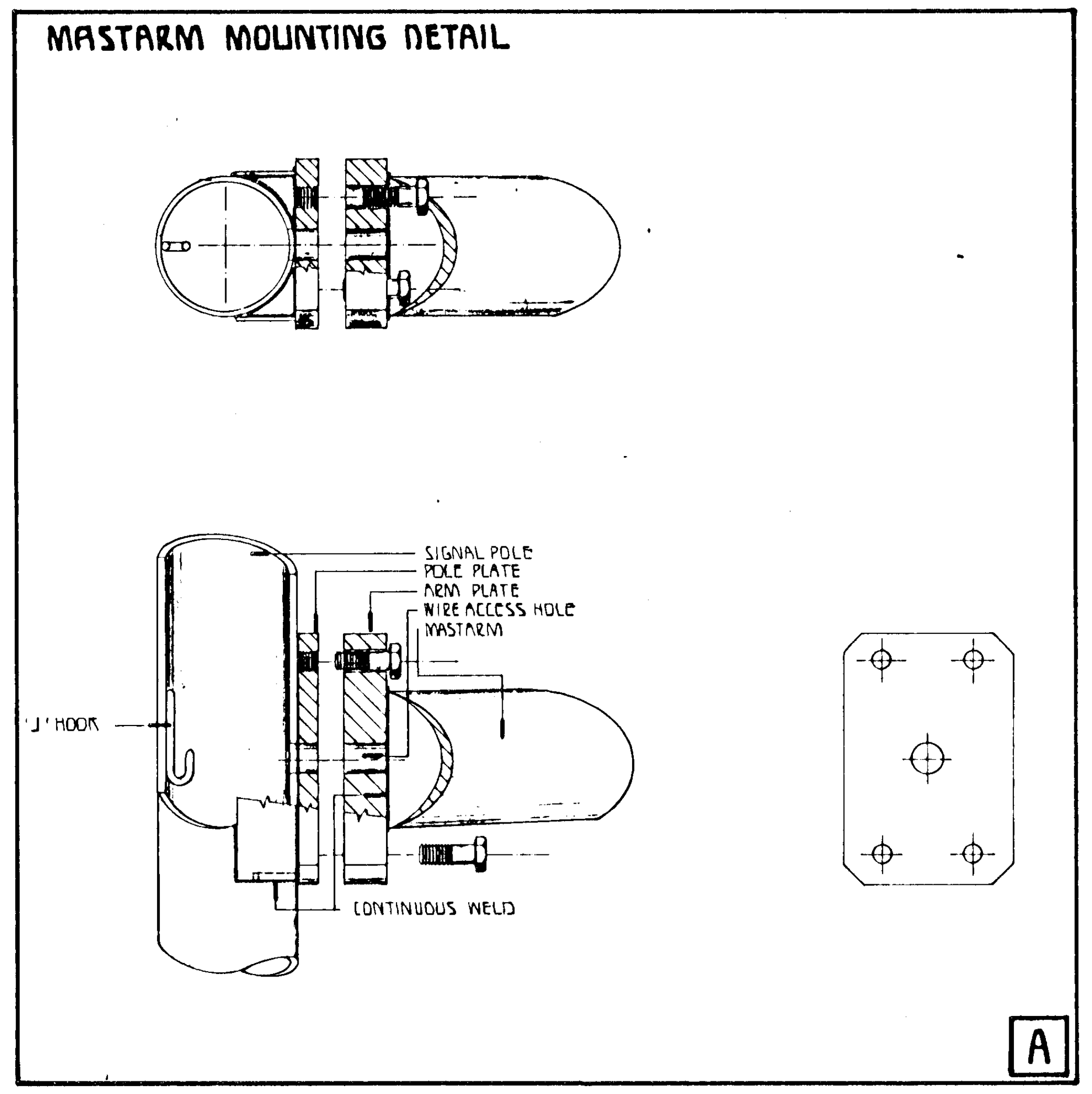
*NOTE: PUSBUTTON IS 3'-6" FROM SIDEWALK FINISH GRADE TO CENTER OF PUSHBUTTON.


BASEPLATE
0%

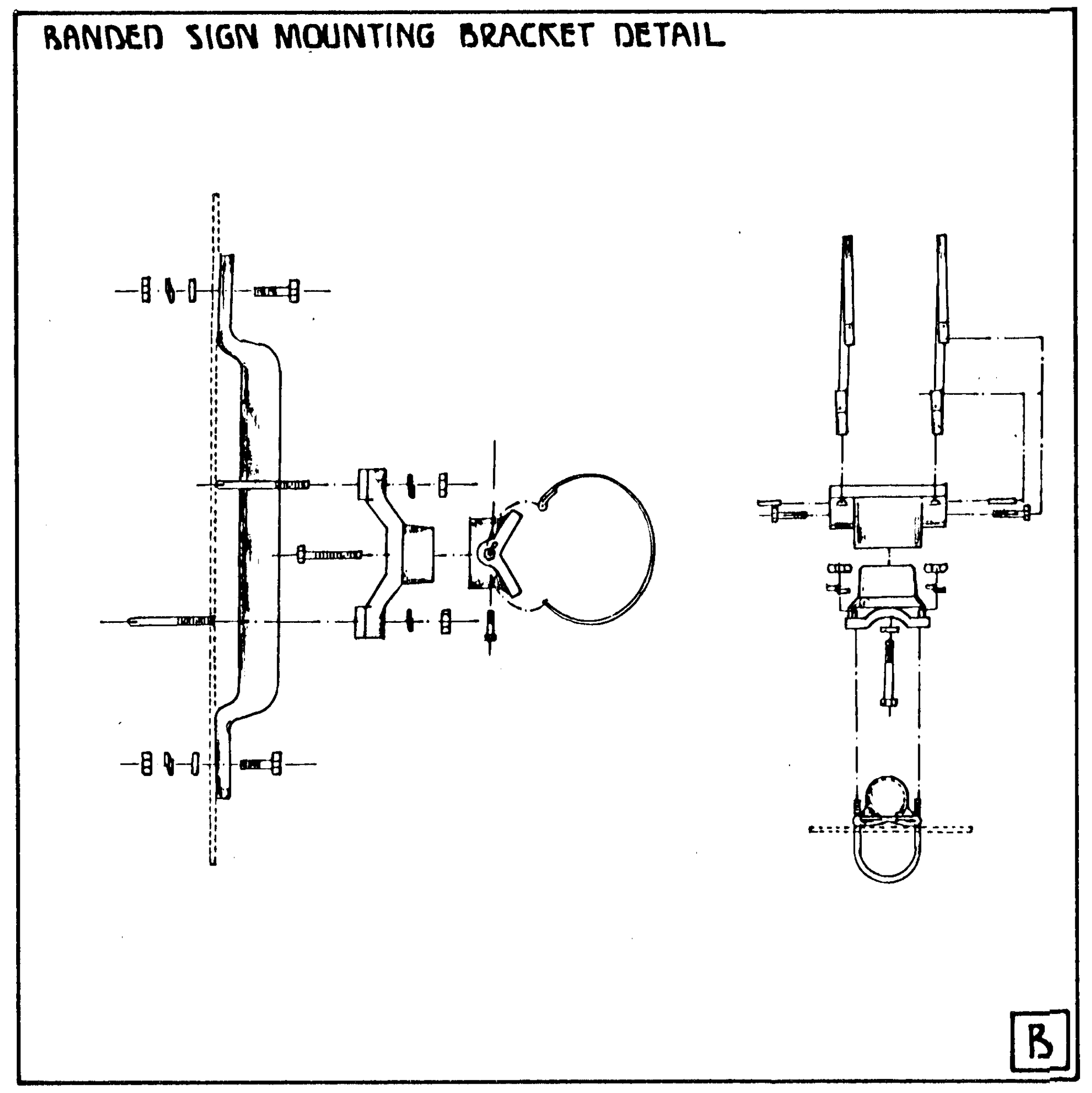
2% BACK RAKE (1/4 BUBBLE) MASTARMS 40' & UNDER
2.6% BACK RAKE (1/3 BUBBLE) MASTARMS OVER 40'

BASEPLATE DETAIL

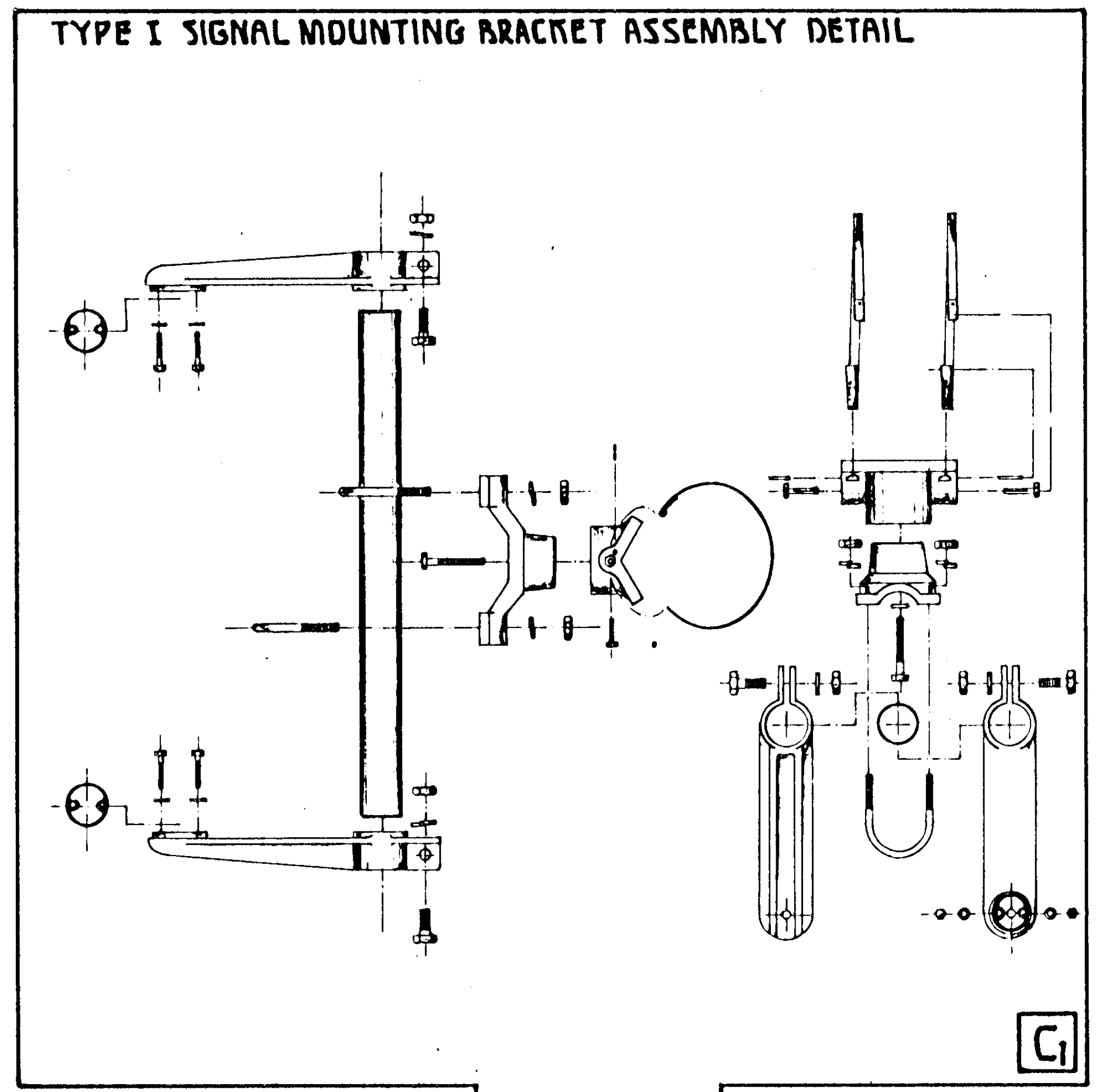
MASTARM MOUNTING DETAIL


SIGNAL POLE
POLE PLATE
ARM PLATE
WIRE ACCESS HOLE
MASTARM
'J' HOOK
CONTINUOUS WELD
A

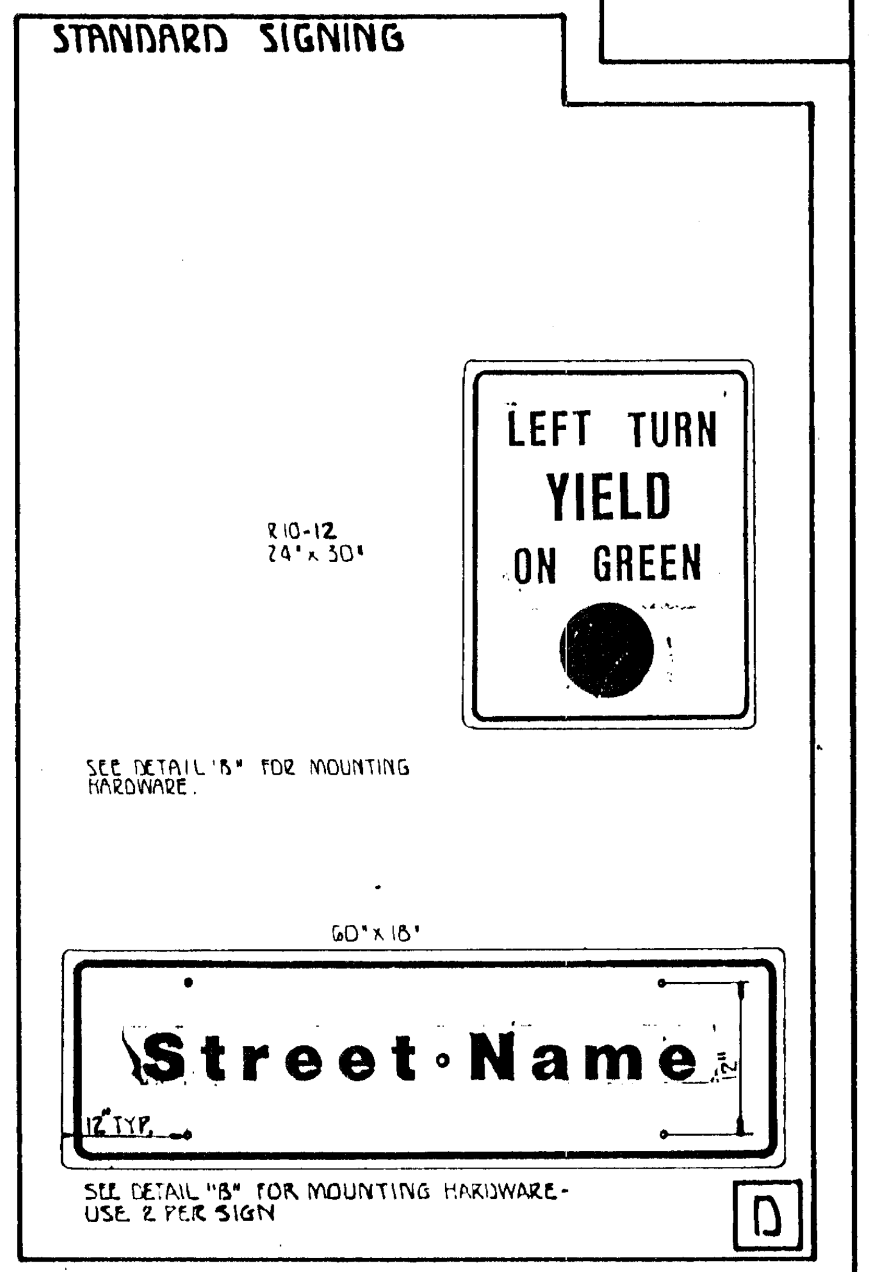
BANDED SIGN MOUNTING BRACKET DETAIL



TYPE I SIGNAL MOUNTING BRACKET ASSEMBLY DETAIL



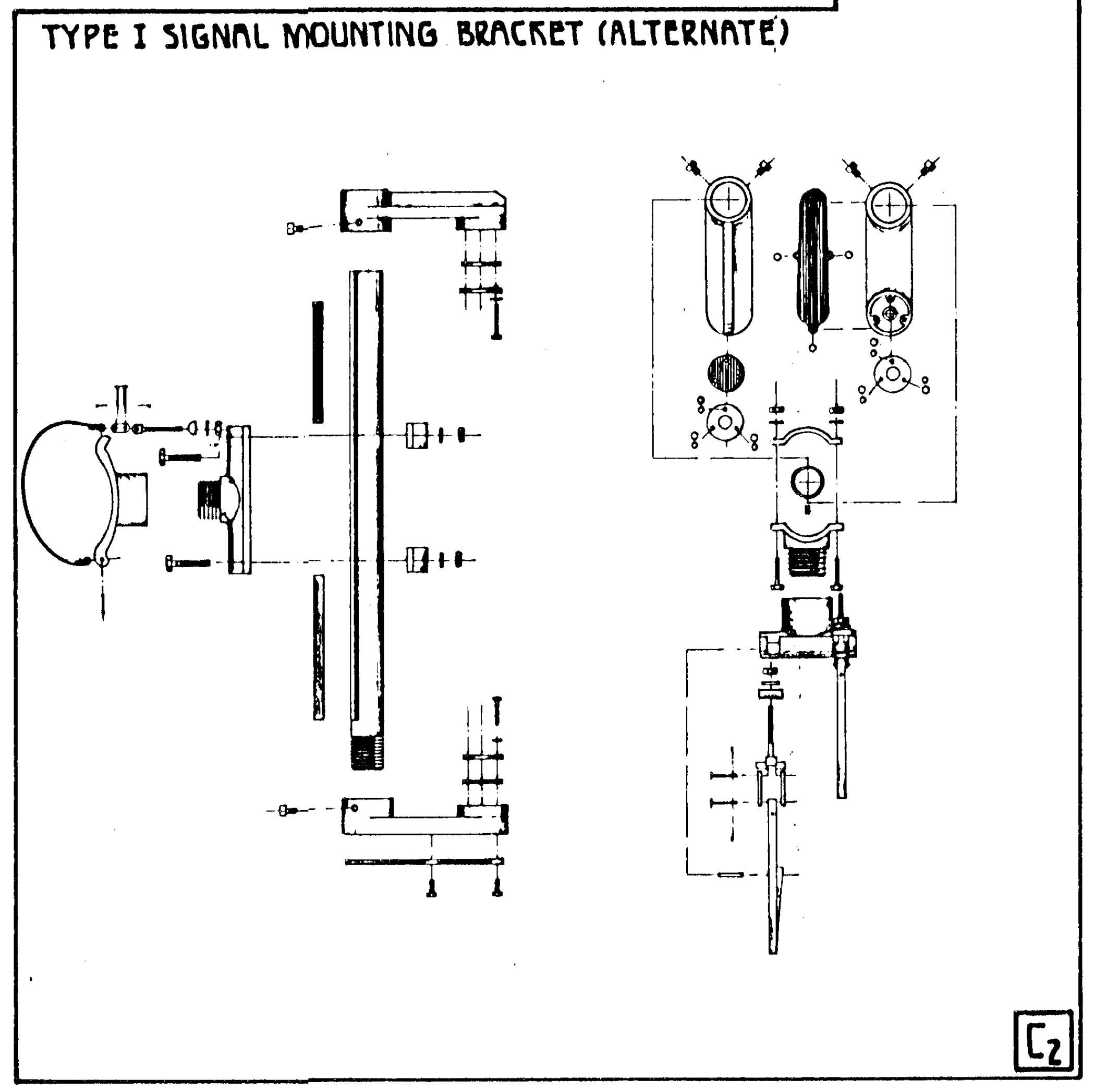
STANDARD SIGNING


R10-12
24" x 30"
LEFT TURN
YIELD
ON GREEN
60" x 18"
Street·Name
12"
12" TYP.
D

SEE DETAIL "B" FOR MOUNTING HARDWARE.

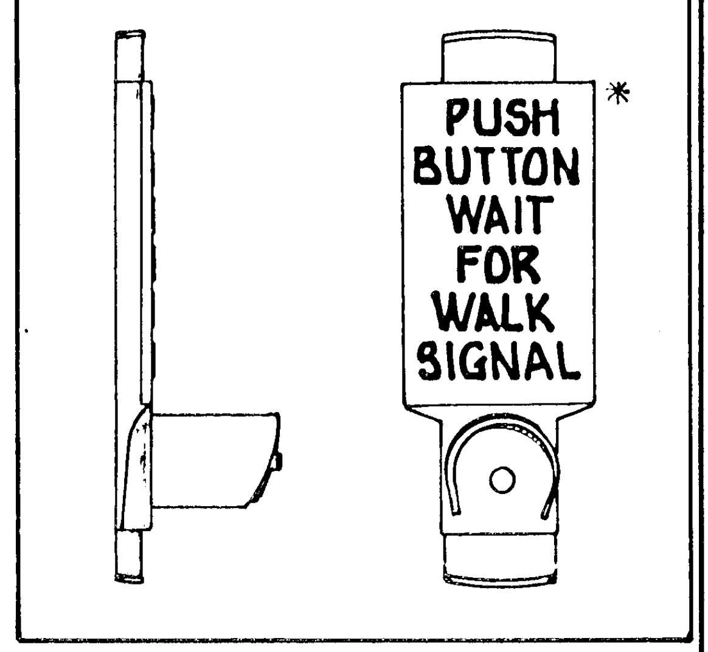
SEE DETAIL "B" FOR MOUNTING HARDWARE - USE 2 PER SIGN

TYPE I SIGNAL MOUNTING BRACKET (ALTERNATE)

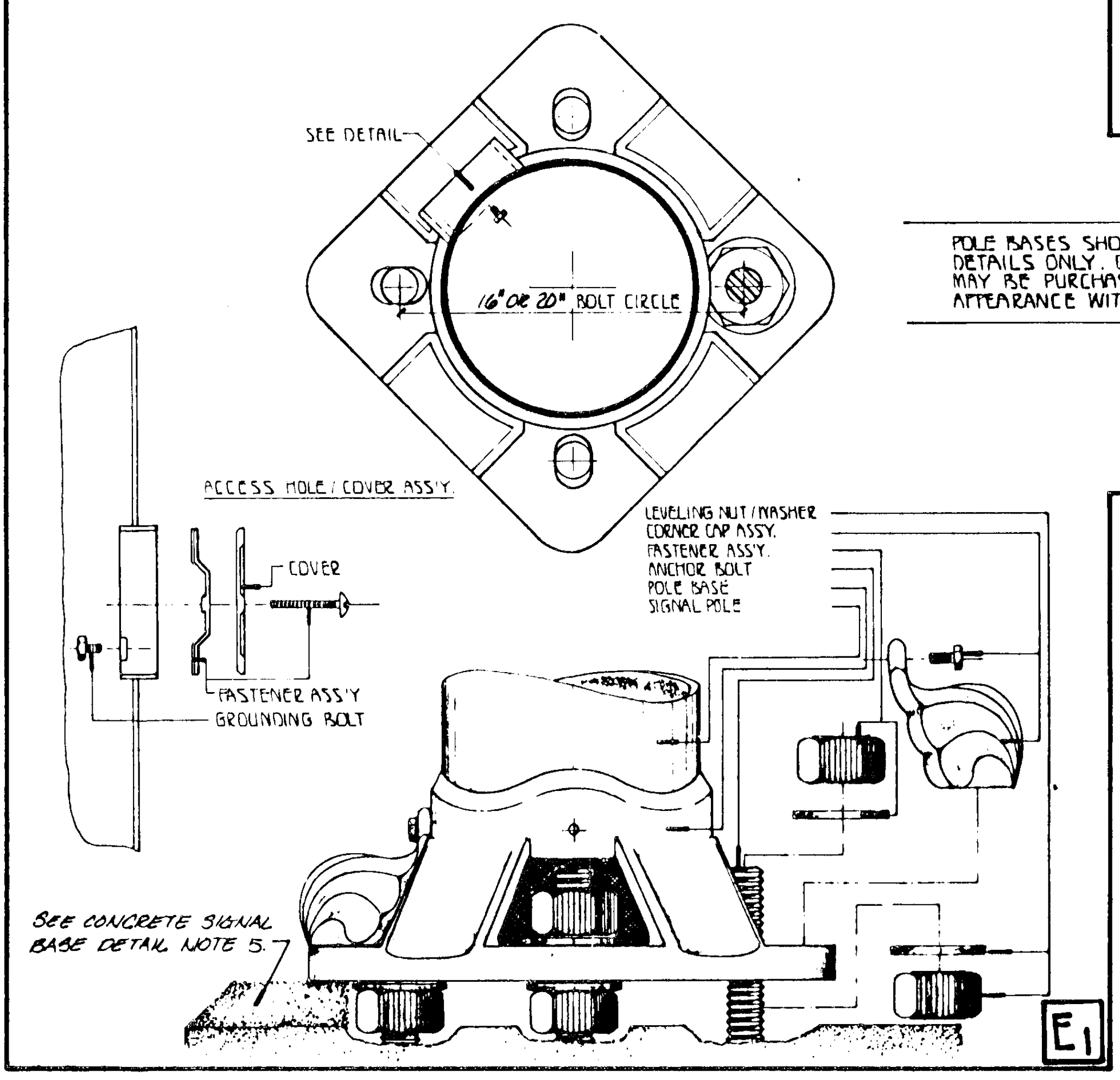


PEDESTRIAN PUSHBUTTON/SIGN UNIT DETAIL

*NOTE: MESSAGE TO BE CAST WITH HOUSING (ONE PIECE).


PUSH
BUTTON
WAIT
FOR
WALK
SIGNAL
*

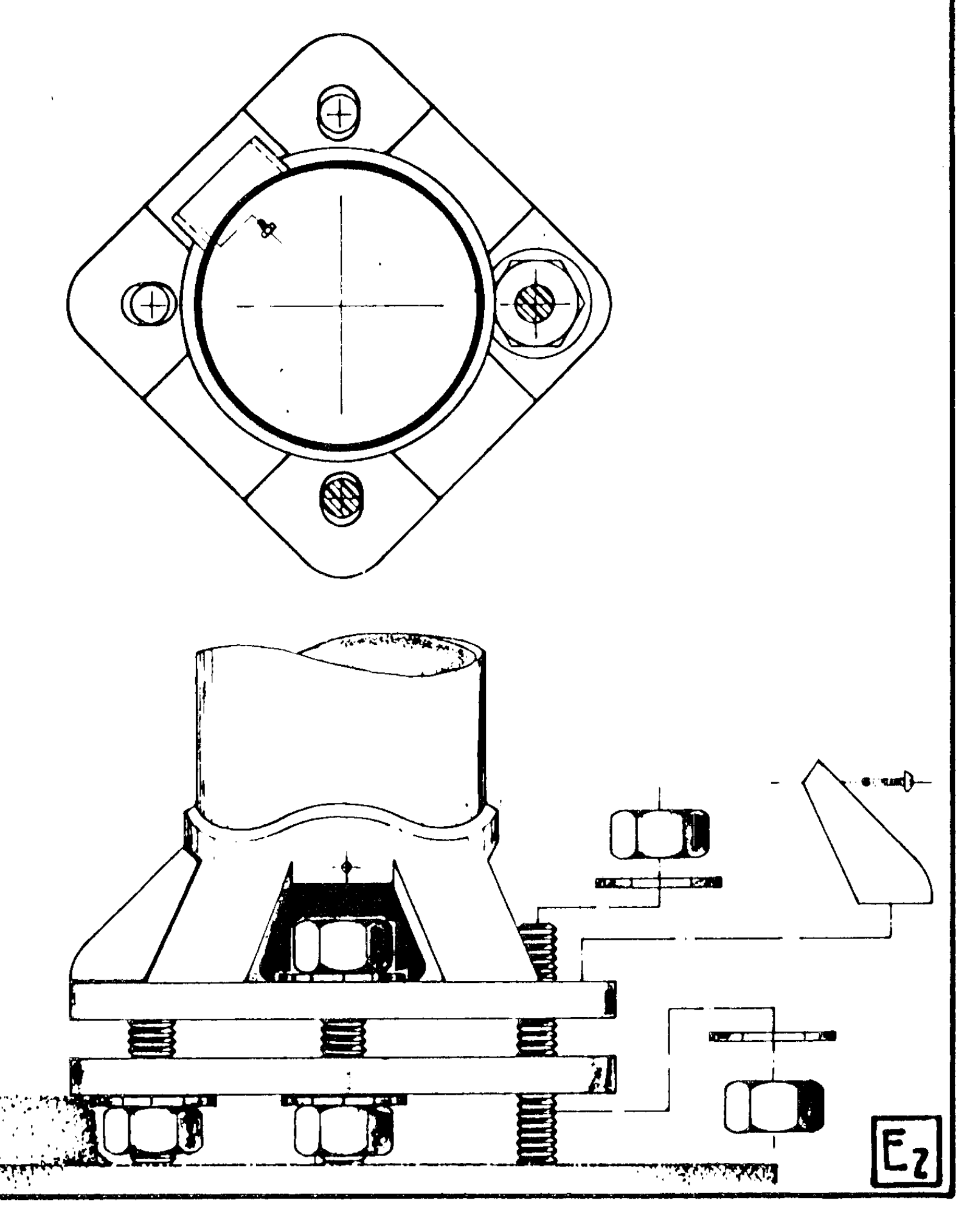
POLE BASE ASSEMBLY DETAIL


SEE DETAIL
16" OR 20" BOLT CIRCLE
ACCESS HOLE / COVER ASS'Y.
COVER
FASTENER ASS'Y
GROUNDING BOLT
LEVELING NUT / WASHER
CORNER CAP ASSY.
FASTENER ASS'Y.
ANCHOR BOLT
POLE BASE
SIGNAL POLE
E1

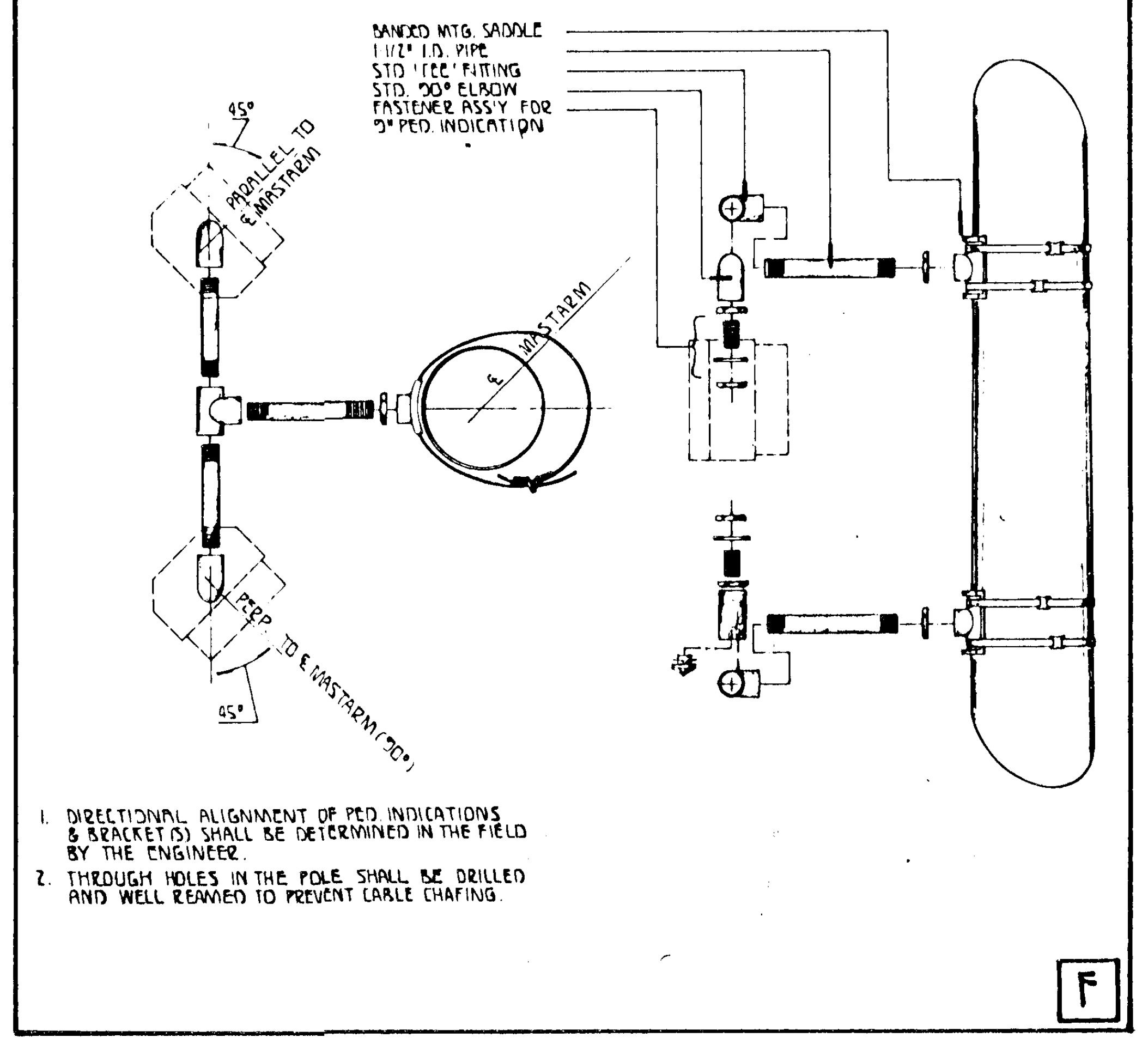
SEE CONCRETE SIGNAL BASE DETAIL NOTE 5.

POLE BASES SHOWN ARE FOR ASSEMBLY DETAILS ONLY. OPTIONAL BASES THAT MAY BE PURCHASED MAY VARY IN ACTUAL APPEARANCE WITH MFG. CO.

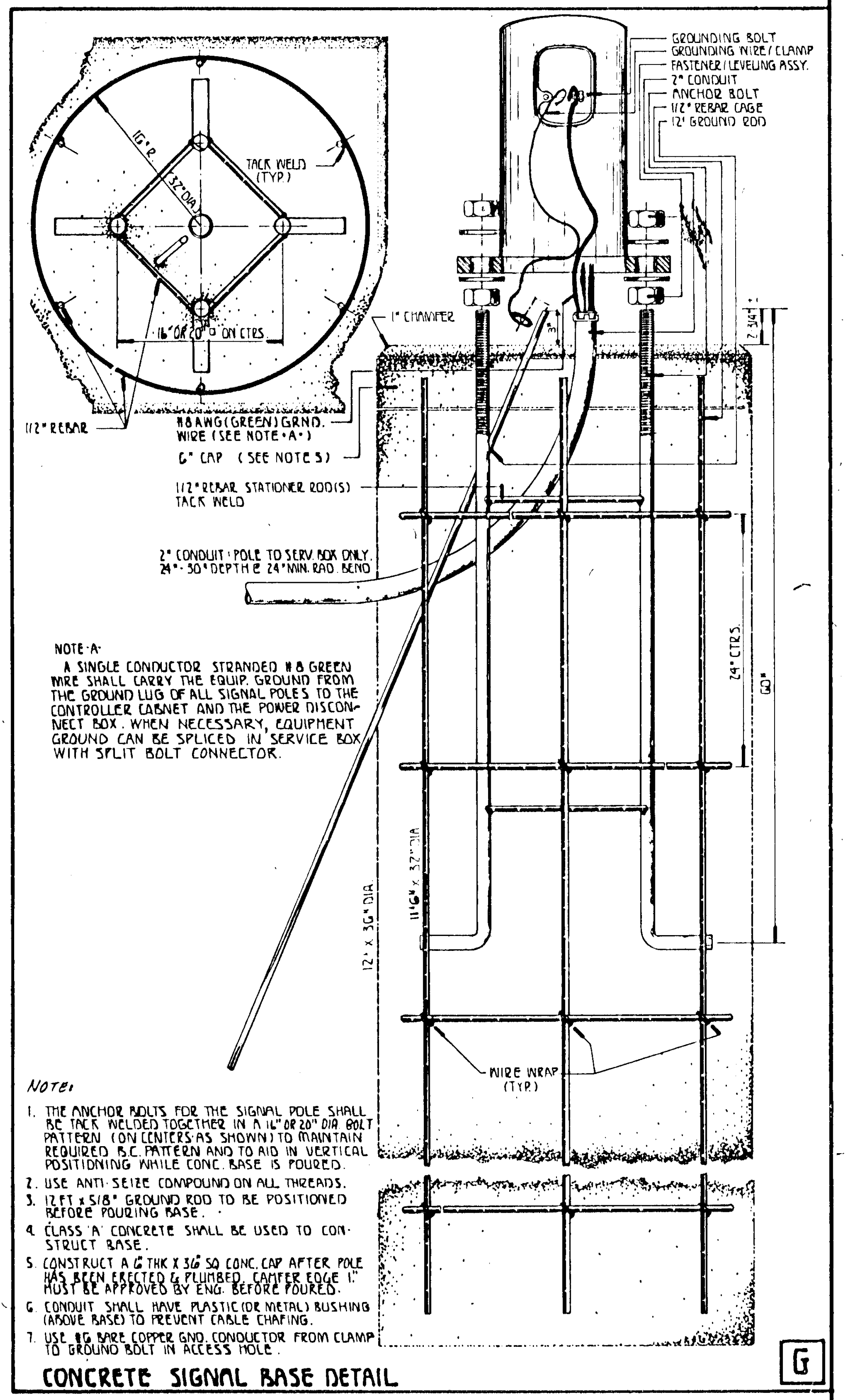
POLE BASE ASSEMBLY DETAIL (ALTERNATE)



TYPE II OR III SIGNAL MOUNTING BRACKET ASSEMBLY (SIDE·OF·POLE) TYPE II SHOWN


BANDED MTG. SADDLE
1 1/2" I.D. PIPE
STD 'TEE' FITTING
STD. 90° ELBOW
FASTENER ASS'Y FOR 9" PED. INDICATION
45°
PARALLEL TO ℄ MASTARM
℄ MASTARM
PERP. TO ℄ MASTARM (90°)
45°
F

1. DIRECTIONAL ALIGNMENT OF PED. INDICATIONS & BRACKET(S) SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. THROUGH HOLES IN THE POLE SHALL BE DRILLED AND WELL REAMED TO PREVENT CABLE CHAFING.


16" R.
32" DIA.
TACK WELD (TYP.)
16" OR 20" □ ON CTRS.
1/2" REBAR
1" CHAMFER
GROUNDING BOLT
GROUNDING WIRE / CLAMP
FASTENER / LEVELING ASSY.
2" CONDUIT
ANCHOR BOLT
1/2" REBAR CAGE
12' GROUND ROD
#8 AWG (GREEN) GRND. WIRE (SEE NOTE ·A·)
6" CAP (SEE NOTE 5)
1/2" REBAR STATIONER ROD(S) TACK WELD
2" CONDUIT: POLE TO SERV. BOX ONLY. 24"-30" DEPTH @ 24" MIN. RAD. BEND
3"
2 3/4"
24" CTRS.
60"
12' x 36" DIA.
11'6" x 32" DIA.
WIRE WRAP (TYP.)
G

NOTE ·A·
A SINGLE CONDUCTOR STRANDED #8 GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GROUND LUG OF ALL SIGNAL POLES TO THE CONTROLLER CABINET AND THE POWER DISCONNECT BOX. WHEN NECESSARY, EQUIPMENT GROUND CAN BE SPLICED IN SERVICE BOX WITH SPLIT BOLT CONNECTOR.

NOTE:
1. THE ANCHOR BOLTS FOR THE SIGNAL POLE SHALL BE TACK WELDED TOGETHER IN A 16" OR 20" DIA. BOLT PATTERN (ON CENTERS AS SHOWN) TO MAINTAIN REQUIRED B.C. PATTERN AND TO AID IN VERTICAL POSITIONING WHILE CONC. BASE IS POURED.
2. USE ANTI-SEIZE COMPOUND ON ALL THREADS.
3. 12 FT x 5/8" GROUND ROD TO BE POSITIONED BEFORE POURING BASE.
4. CLASS 'A' CONCRETE SHALL BE USED TO CONSTRUCT BASE.
5. CONSTRUCT A 6" THK X 36" SQ CONC. CAP AFTER POLE HAS BEEN ERECTED & PLUMBED. CAMFER EDGE 1". MUST BE APPROVED BY ENG. BEFORE POURED.
6. CONDUIT SHALL HAVE PLASTIC (OR METAL) BUSHING (ABOVE BASE) TO PREVENT CABLE CHAFING.
7. USE #6 BARE COPPER GND. CONDUCTOR FROM CLAMP TO GROUND BOLT IN ACCESS HOLE.

CONCRETE SIGNAL BASE DETAIL

REV. DATE	COMMENTS	INT.
SEPT 83	ADD: NOTATIONS TO VARIOUS FOR CLARIFICATION	SS
SEPT 83	REV. BASE DEPTH FROM 10'x36" TO 12'x36"	SS
DEC 83	ADD: #8 GRN GRND WIRE TO SIGNAL BASE	
	DETAIL w/ NOTE	SS
JAN 86	CHANGE BRACKETS TO GU W/B · ADD SIGN NOTE	JD
FEB 86	CHANGE PED PUSHBUTTON TO SINGLE UNIT	JD
	ADD [illegible] DET [illegible]	
SEP '88	CLARIFY NOTES, REDO RAKE NOTES	JD
FEB '89	CHANGE 9'6" REBAR TO 11'6" (G2)	JD
MAY '89	ADD PED PUSHBUTTON NOTE & DEC 89	JD

REV. DATE	COMMENTS	INT.
DEC '90	Revised Ground Rod	JKB

PROJECT DESCRIPTION

STEEL SIGNAL POLE ASSEMBLY DETAILS

PROJECT NUMBER

BOOK NO.	APPROVED BY	DATE AUG. 83
DRAWN BY SEAL		REVISED

CITY OF WICHITA
DEPARTMENT OF PUBLIC WORKS
SCALE

DIVISION OF TRAFFIC ENGINEERING
WM. O. McKINLEY: TRAFFIC ENGINEER