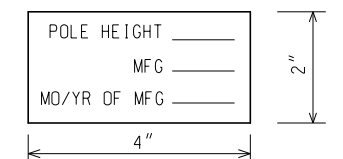


STRAIN POLE REQUIREMENTS				
POLE LENGTH (FT)	A	30 FT	36 FT	40 FT
MIN. POLE WALL THICKNESS (IN)	W	0.429	0.625	0.625
* POLE DIAMETER (IN)	AT TOP	B'	8 (MIN) ± 1/2	8 (MIN) ± 1/2
	AT BOTTOM	B	13 ± 1/2	13 ± 1/2
FULL LENGTH TAPER (IN/FT)		+0.002 0.14 -0.000	+0.002 0.14 -0.000	+0.002 0.14 -0.000
POLE BASE FILLET WELD (IN)	E	5/16	1/2	1/2
POLE BASE LANDING (IN)	F	3/8	5/8	5/8
ANCHOR BOLT DIAMETER (IN)		1 1/2	1 3/4	1 3/4
ANCHOR BOLT HOLE DIAMETER (IN)		1 13/16	2 1/16	2 1/16
ANCHOR BOLT CIRCLE DIAMETER (IN)		18	21	21
ANCHOR BOLT CHORD (IN)	C	9	10 1/2	10 1/2
BASE PLATE EDGE (IN)	D	12 1/4	14 1/4	14 1/4
BASE PLATE THICKNESS (IN)	T	2	2 1/4	2 1/4
POLE BAND (SPAN CLAMP)	8 1/2"	P.O.C.H. 25'-6" TO 28'-6"	P.O.C.H. 32'-6" TO 34'-6"	P.O.C.H. 36'-0" TO 38'-6"
	9 1/2"	P.O.C.H. 20'-6" TO 25'-0"	P.O.C.H. 25'-0" TO 32'-0"	P.O.C.H. 29'-0" TO 35'-6"

* DIAMETERS GIVEN ARE O.D.

NOTES:

1. THE DESIGN OF THIS STRUCTURE IS BASED ON THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
2. S.S. DENOTES STAINLESS STEEL. GA. DENOTES GAUGE. O.D. DENOTES OUTSIDE DIAMETER. I.D. DENOTES INSIDE DIAMETER. H.S. DENOTES HIGH STRENGTH. SCH. DENOTES SCHEDULE.
3. P.O.C.H. IS THE POINT OF CONTACT HEIGHT OF THE POLE BAND CLAMP FROM THE BOTTOM OF THE STRAIN POLE.



STRAIN POLE STAINLESS STEEL ID TAG DETAIL

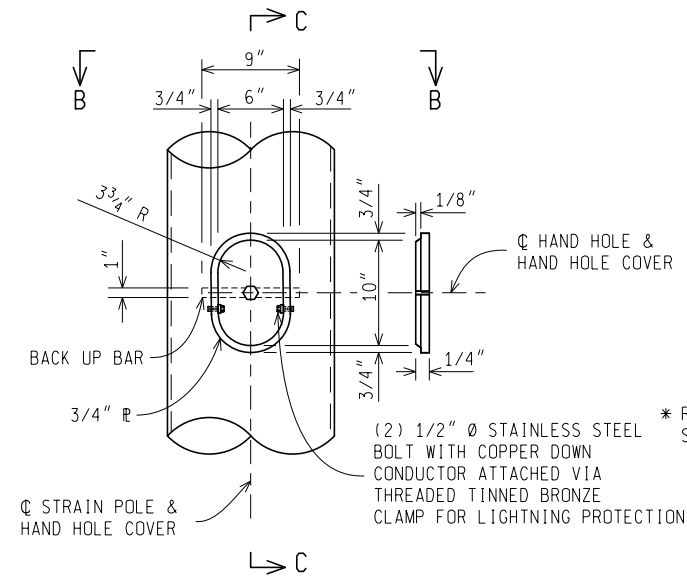
TO BE ATTACHED TO STRAIN POLE AT LOCATIONS SHOWN 4" FROM BASE OF TUBE BELOW HANDHOLE WITH (4) #8 X 3/8" S.S. TYPE U DRIVE SCREWS. (LETTERS STAMPED IN 3/8" CHARACTERS)

NOT TO SCALE

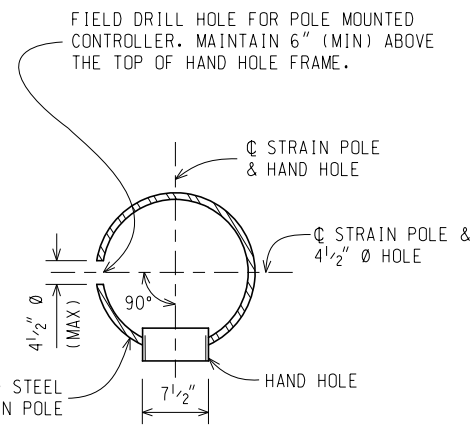
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	FHWA APPROVAL DATE	PLAN DATE	SIG-020-B	SHEET 2 of 7
File: RefDoc/TR/Signals/Web/Sp Det/FIn/SIG020B.dgn Rev. 12/11/20				

NOT TO SCALE	File: RefDoc/TR/Signals/Web/Sp Det/FIn/SIG020B.dgn Rev. 12/11/20
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN FOR 6 ANCHOR BOLT STRAIN POLE AND FOUNDATION	
ENGINEER OF DELIVERY	
ENGINEER OF DEVELOPMENT	
(SPECIAL DETAIL)	
FHWA APPROVAL DATE	
PLAN DATE	SIG-020-B
	SHEET 1 of 7

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)				MICHIGAN DEPARTMENT OF TRANSPORTATION				NO SCALE		DATE:		CS:		DRAWING		SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	MICHIGAN DEPARTMENT OF TRANSPORTATION		DESIGN UNIT:		JN:				SECT	
								FILE:		TSC:							

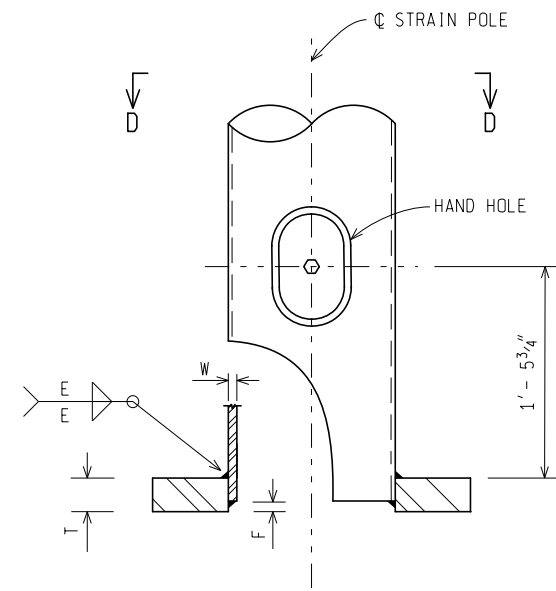


HAND HOLE DETAIL



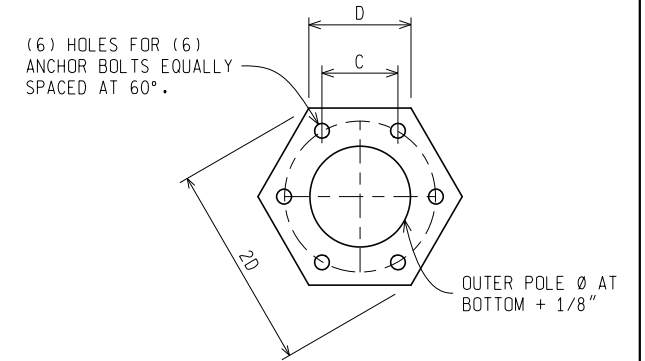
SECTION B-B

SEE ORIENTATION OF STRAIN POLE BELOW
* SINGLE PLY SHOWN, BUT MULTI-PLY IS ALLOWED



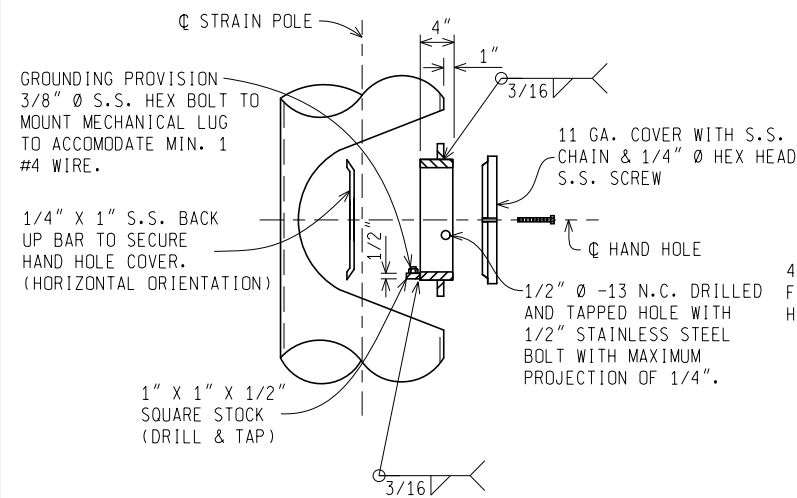
DETAIL B

ANCHOR BOLTS NOT SHOWN FOR CLARITY

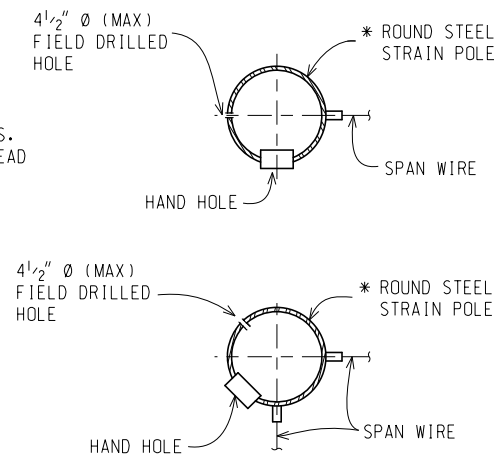


SECTION D-D - BASE PLATE

SEE CHART ON PAGE 2 FOR ANCHOR BOLT CIRCLE Ø,
ANCHOR BOLT HOLE Ø, AND ANCHOR BOLT Ø.
(STRAIN POLE NOT SHOWN FOR CLARITY)

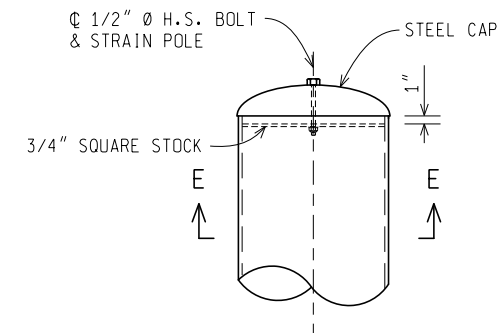


SECTION C-C

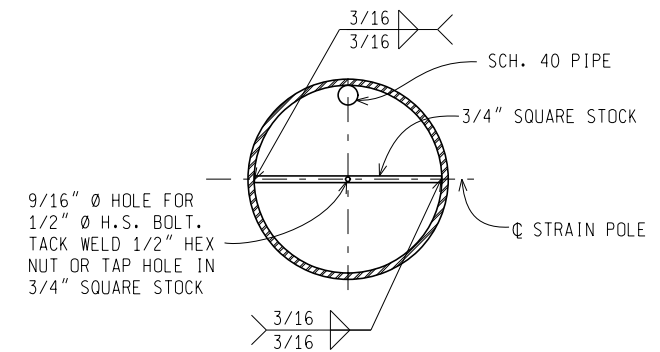


STRAIN POLE ORIENTATION

* SINGLE PLY SHOWN, BUT MULTI-PLY IS ALLOWED



STRAIN POLE CAP DETAIL



SECTION E-E

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN		FHWA APPROVAL DATE		PLAN DATE	SIG-020-B	SHEET 3 of 7
File: RefDoc/TR/Signals/Web/Sp Det/FIn/SIG020B.dgn		Rev. 12/11/20				

NOT TO SCALE

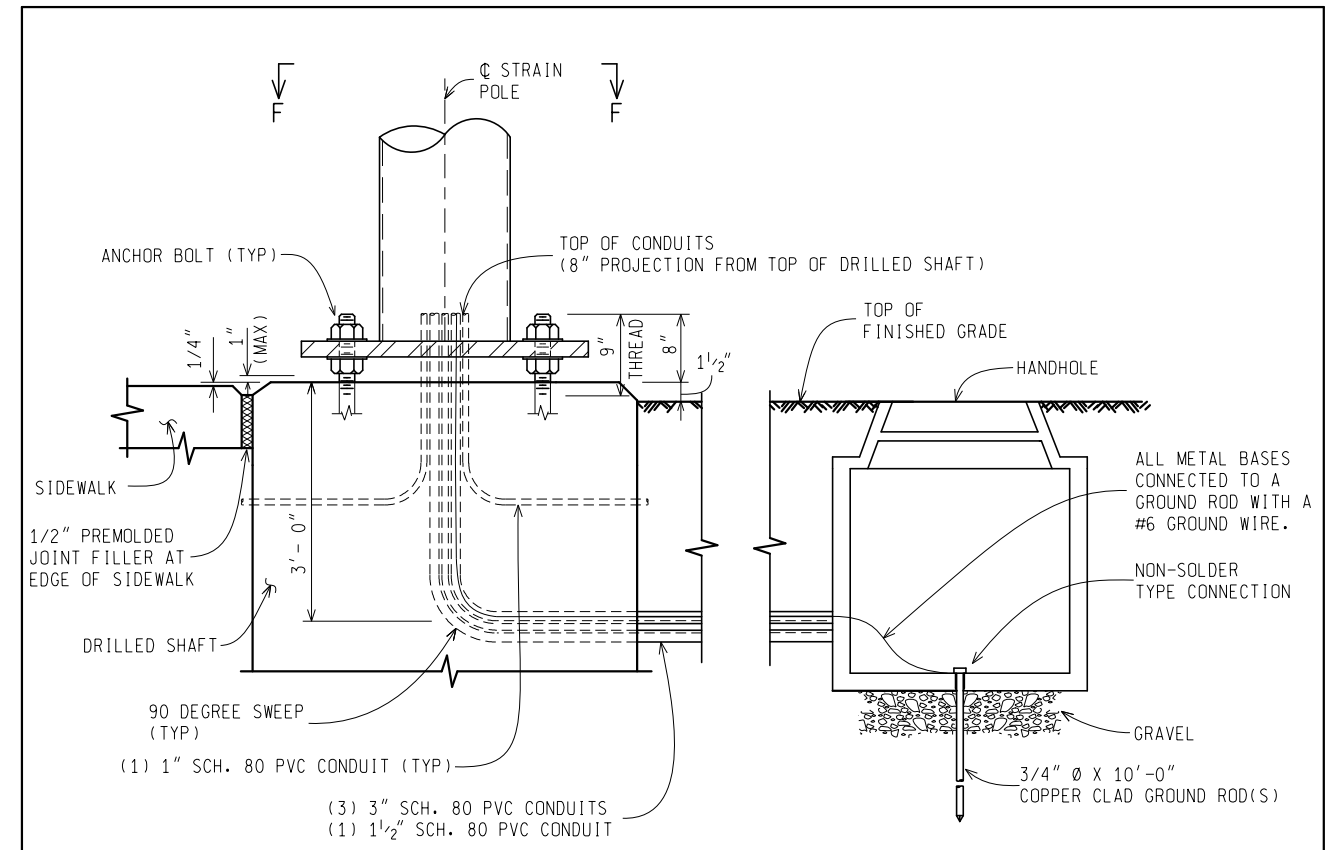
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN		FHWA APPROVAL DATE		PLAN DATE	SIG-020-B	SHEET 4 of 7
File: RefDoc/TR/Signals/Web/Sp Det/FIn/SIG020B.dgn		Rev. 12/11/20				

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

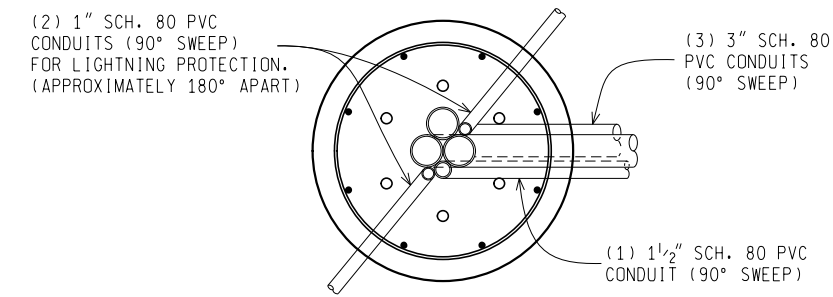


NO SCALE

DATE:	CS:	DRAWING SHEET	
DESIGN UNIT:	JN:		SECT
TSC:			

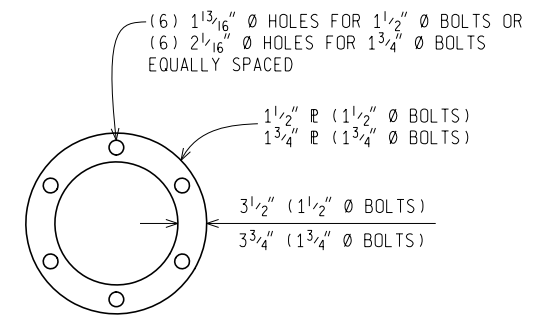


CONDUIT LAYOUT



SECTION F-F

SECURE CONDUITS TOGETHER WITH SUITABLE BANDING TO ENSURE PLACEMENT PRIOR TO CONCRETE POUR.



BOTTOM ANCHOR BOLT STEEL TEMPLATE DETAIL

SEE CHART ON PAGE 5 FOR ANCHOR BOLT CIRCLE Ø, ANCHOR BOLT HOLE Ø, AND FOUNDATION Ø

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	FHWA APPROVAL DATE		SIG-020-B	SHEET 7 of 7
File:RefDoc/TR/Signals/Web/Sp Det/Fin/SIG020B.dgn	Rev. 12/11/20	PLAN DATE		

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DATE:	CS:	DRAWING	SHEET
DESIGN UNIT:	JN:		SECT
TSC:			