

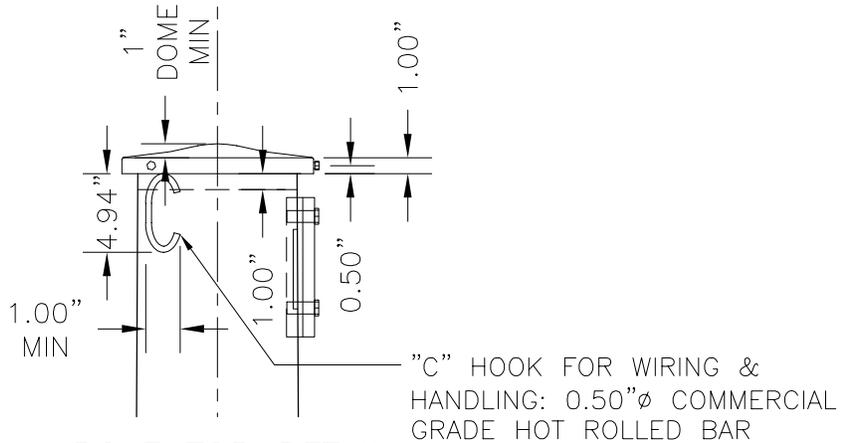
SP-201 DRAWING SHEET INDEX

- 1 STANDARD AND (S) STEEL POLE DETAILS
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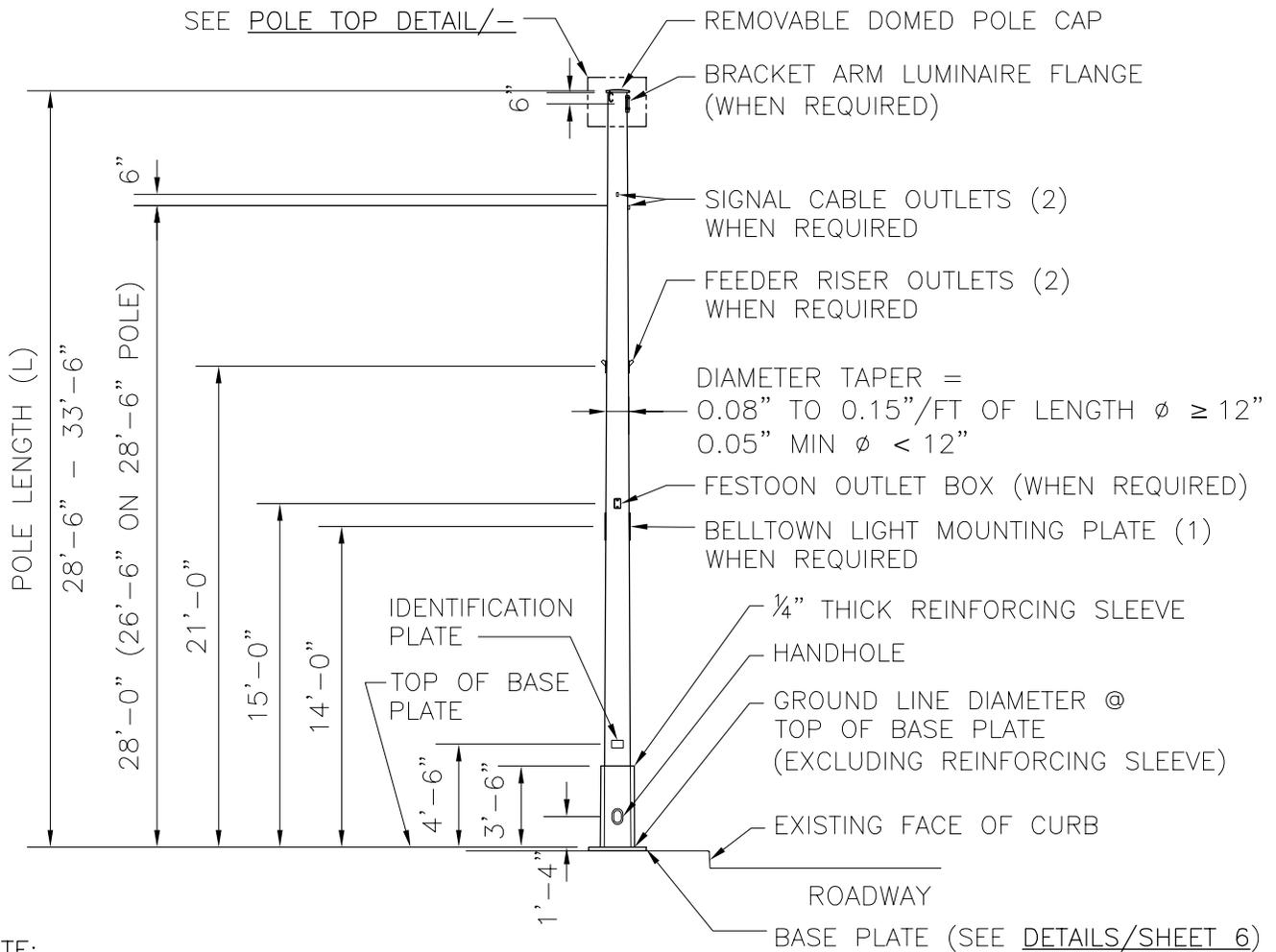
DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		INDEX	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. GO.01
APPROVED D CRIPPEN	CONTRACT NO: -			SHT OF

NOTES:

1. CAST POLE TOP CAP HELD IN PLACE W/ (3) $\frac{3}{8}$ " - 16UNC STAINLESS STEEL SET SCREWS.
2. CAP WILL BE SIZED TO FIT OVER ALADDIN TOP PLATE WHEN REQUIRED
3. STEEL SHALL BE 0.1" MINIMUM THICKNESS.



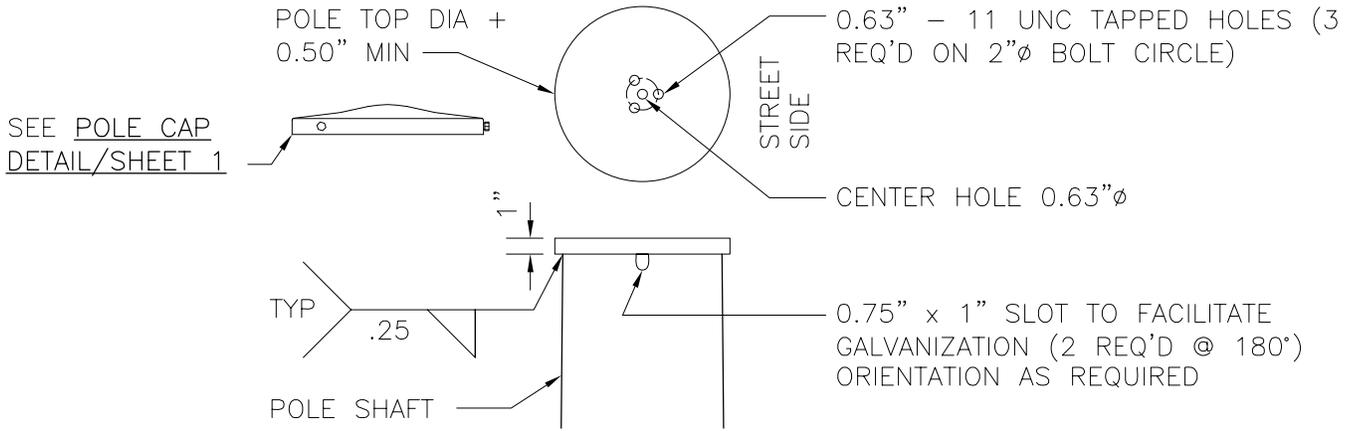
POLE TOP DETAIL
SCALE: 1" = 1'-0"



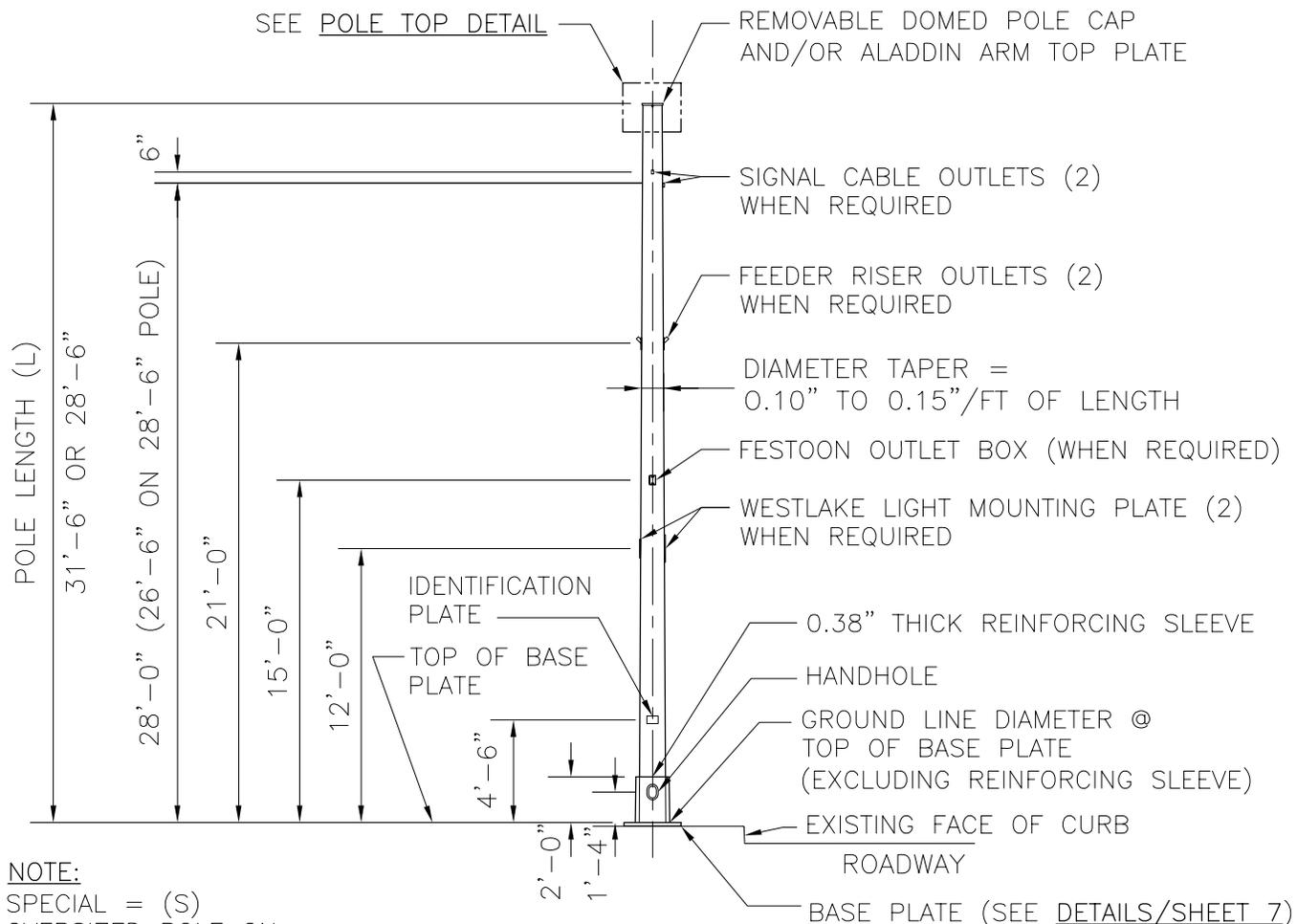
NOTE:
SPECIAL = (S)
OVERSIZED POLE ON
EXISTING FOUNDATION

**STANDARD AND
SPECIAL STEEL POLES**
SCALE: $\frac{1}{8}$ " = 1'-0"

DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD & (S) STEEL POLE PURCHASE REQUIREMENTS	FILE
RECOM. J DAVIS	IBIS NO: 430338		POLE DETAILS	DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 1 OF 16



POLE TOP DETAIL
SCALE: 1" = 1'-0"

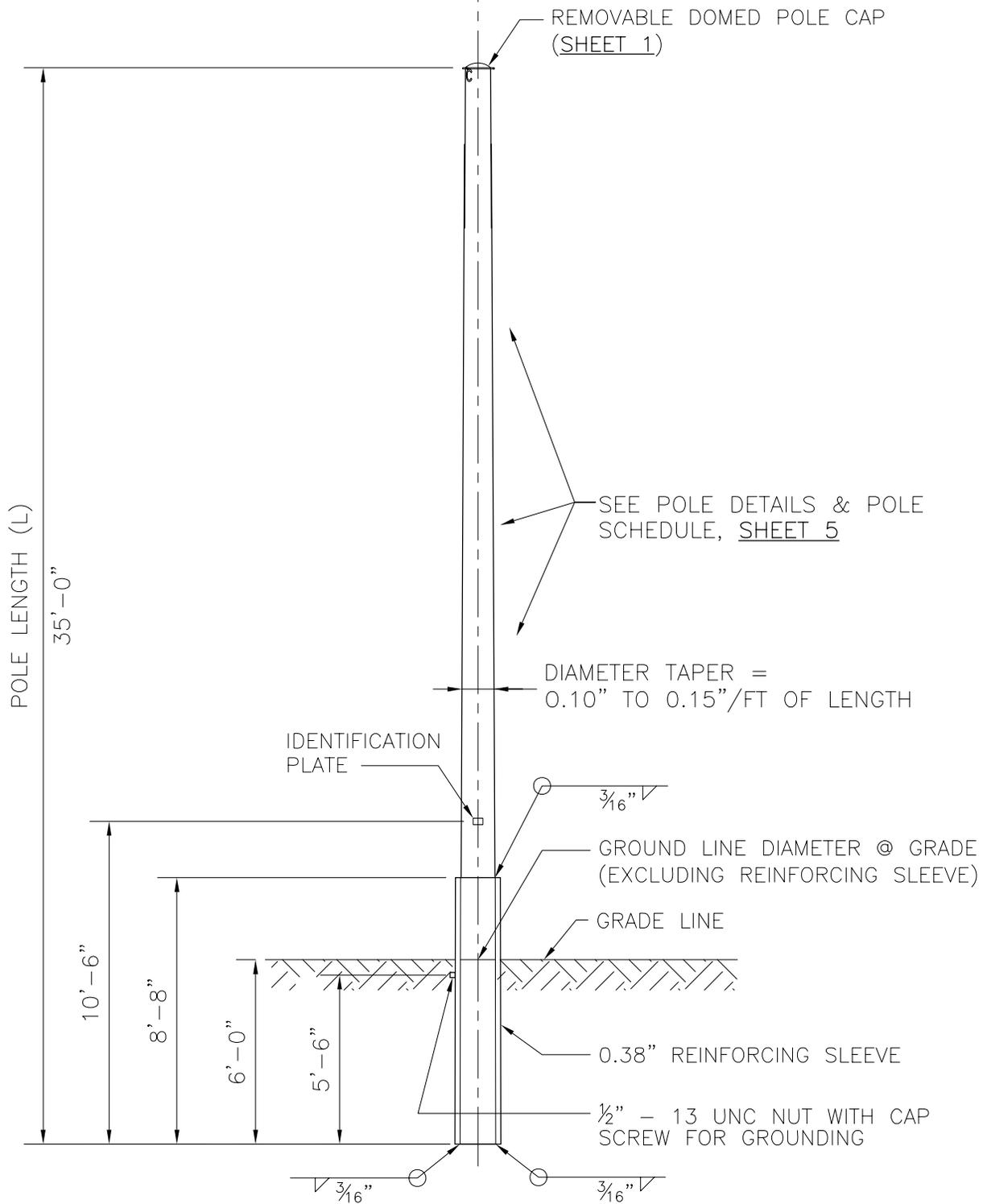


NOTE:
SPECIAL = (S)
OVERSIZED POLE ON EXISTING FOUNDATION

CHIEF SEATTLE BASE = (C)
CHIEF SEATTLE BASE SPECIAL = (CS)

CHIEF SEATTLE BASE AND CHIEF SEATTLE BASE SPECIAL STEEL POLES
SCALE: 1/8" = 1'-0"

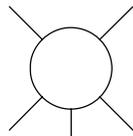
DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		(C) & (CS) STEEL POLE PURCHASE REQUIREMENTS POLE DETAILS	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 2 OF 16



EMBEDDED STEEL POLE

SCALE: 1" = 5'-0"

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS EMBEDDED POLE DETAIL	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 3 OF 16



BRACKET LUMINAIRE FLANGE
TRAFFIC SIGNAL ARM
WESTLAKE LIGHT MOUNTING PLATE
@ 180°

SIGNAL CABLE
OUTLET
@ 135°

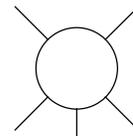
SIGNAL CABLE
OUTLET
@ 225°

FEEDER
RISER
OUTLET
@ 90°

FEEDER
RISER
OUTLET
@ 270°

HANDHOLE,
FESTOON
OUTLET,
SIGNAL
HANDHOLE,
BELLTOWN
LIGHT
MOUNTING
PLATE,
WESTLAKE
LIGHT
MOUNTING
PLATE
@ 0°

NON-STANDARD TYPE FIXTURE
ORIENTATION



BRACKET LUMINAIRE FLANGE,
TRAFFIC SIGNAL ARM,
WESTLAKE LIGHT MOUNTING PLATE
@ 270°

SIGNAL CABLE
OUTLET
@ 225°

SIGNAL CABLE
OUTLET
@ 315°

FEEDER
RISER
OUTLET
@ 180°

HANDHOLE,
FESTOON
OUTLET,
FEEDER
RISER
OUTLET
@ 0°

WESTLAKE
LIGHT
MOUNTING
PLATE,
BELLTOWN
LIGHT
MOUNTING
PLATE,
SIGNAL
HANDHOLE
@ 90°

STANDARD TYPE FIXTURE
ORIENTATION

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT STANDARD STEEL POLE PURCHASE REQUIREMENTS FIXTURE ORIENTATION	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE			FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 4 OF 16

POLE SCHEDULE (WITHOUT SLEEVES)

POLE TYPE	POLE STYLE	NORMAL LENGTH (L) (FEET)	GROUND LINE ACROSS FLATS (INCHES)	WORKING LOAD (LB) @25'	GROUND LINE MOMENT (LB-FT)	POLE FOUNDATION TYPE
SA-201H SA-201K SA-201M	EMBEDDED	35	12 14 15	2200 3600 6600	110,000 180,000 330,000	SA-212B SA-212D SA-212F
SA-203-1 SA-203-2	ANCHOR BASE	30	8 10	1600 2000	80,000 100,000	SA-213A SA-213A
SA-201V SA-201X SA-201X(S) SA-201Y(S) SA-201Z SA-201ZZ SA-201ZZZ	ANCHOR BASE	28.5 OR 33.5	12 14 12½ 14 15 15 16	2200 3600 3600 5400 6600 8000 12,000	110,000 180,000 180,000 270,000 330,000 400,000 600,000	SA-213B SA-213D SA-213B SA-213D SA-213F SA-213F SA-213H
SA-201V(C) SA-201X(C) SA-201Y(C) SA-201X(CS) SA-201Y(CS) SA-201Z(C)	ANCHOR BASE W/ SMALL DIAMETER SHAFT FOR CHIEF SEATTLE CASTING	28.5 OR 31.5	11¾* 11¾* 11¾* 11¾* 11¾* 11¾*	2200 3600 5400 3600 5400 6600	110,000 180,000 270,000 180,000 270,000 330,000	SA-213B SA-213D SA-213F SA-213B SA-213D SA-213F

(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION (C) = CHIEF SEATTLE BASE
(CS) = CHIEF SEATTLE BASE, SPECIAL; *12¼"Ø ROUND OK AS ALTERNATIVE.

POLE SCHEDULE NOTES

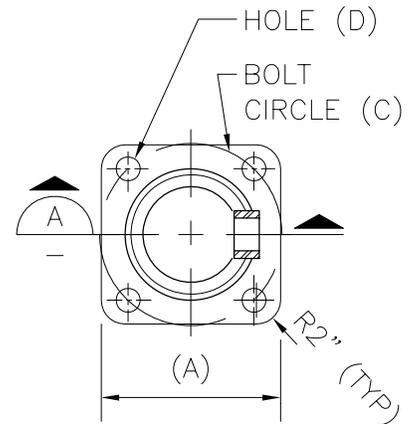
- POLE MANUFACTURER SHALL DESIGN POLE BASED ON THE DATA SHOWN HERE AND IN CONFORMANCE TO THE SPECIFICATIONS.
- MINIMUM WALL THICKNESS SHALL BE 3 GAGE. WALL SHALL BE SINGLE PLY AND THE SAME MATERIAL FULL LENGTH.
- GROUND LINE MOMENT SHALL NOT EXCEED 80% OF NOMINAL FLEXURAL STRENGTH (Mn) REFERENCE 1999 AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS APPENDIX F, AND 100% OF YIELD MOMENT (My).
- WORKING LOAD IS TRANSVERSE LOAD IN POUNDS APPLIED 25' ABOVE GROUND LINE, WHICH WILL PRODUCE 50% YIELD MOMENT AND 40% NOMINAL FLEXURAL STRENGTH AT GROUND LINE.
- THE LATERAL DEFLECTION OF THE TOP OF EACH POLE RESULTING FROM THE WORKING LOAD SHALL NOT EXCEED 2.5% OF THE POLE LENGTH FOR POLE DIAMETERS ≥ 12" AND 3% FOR POLE DIAMETERS < 12"
- STRENGTH CALCULATIONS SHALL BE BASED ON GROUND LINE DIAMETER ONLY AND SHALL NOT INCLUDE THE REINFORCING SLEEVE.

DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT STANDARD STEEL POLE PURCHASE REQUIREMENTS POLE SCHEDULE & NOTES	DATE: FEB 2009
DR: B FARISSB	SCALE: NONE			FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 5 OF 16

POLE BASE PLATE DIMENSIONS

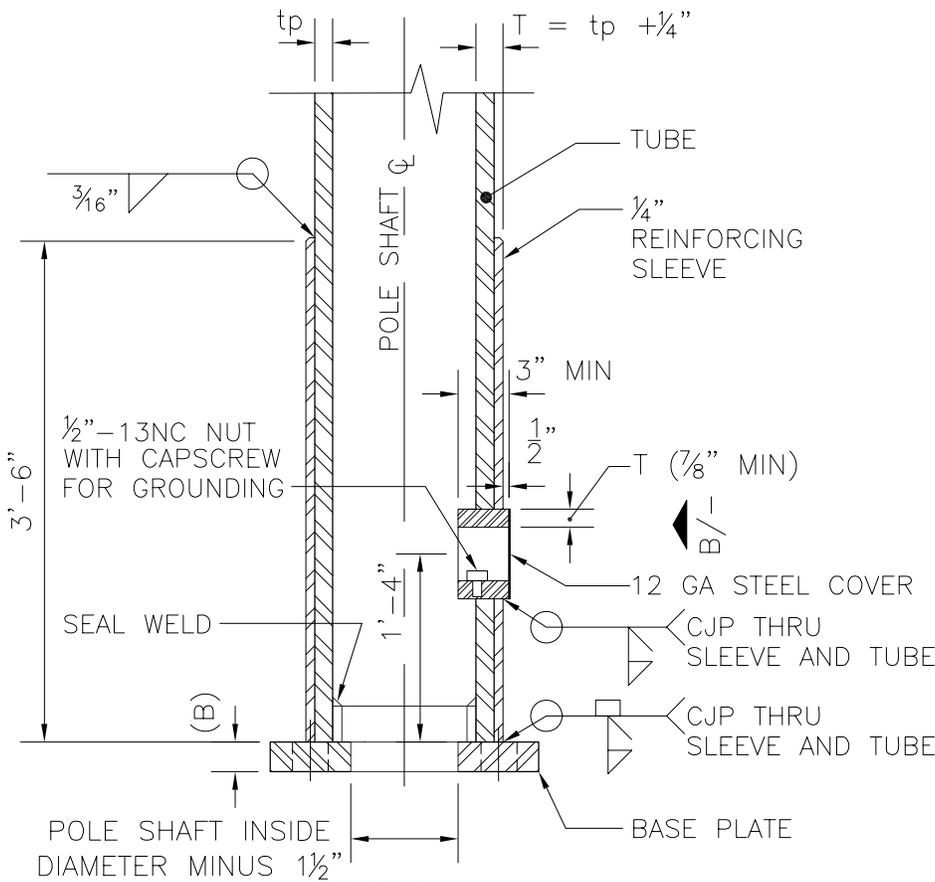
POLE TYPE	PLATE WIDTH x LENGTH (A)	PLATE THICKNESS (B)	BOLT CIRCLE (C)	HOLE DIAMETER (D)
SA-203-1	14 x 14	1½	11½-13½	1¼-1⅜
SA-203-2	16 x 16	1¾	14½-16½	1⅜-1⅝
SA-201V	18 x 18	1¾	18	2⅛
SA-201X	20 x 20	2	20	2⅝
SA-201X(S)	20 x 20	2¼	18	2⅛
SA-201Y(S)	23 x 23	2¼	20	2⅝
SA-201Z	23 x 23	2½	22	2⅜
SA-201ZZ	23 x 23	2½	22	2⅜
SA-201ZZZ	25 x 25	3	24	3⅛

(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION



BASE PLATE
NOT TO SCALE

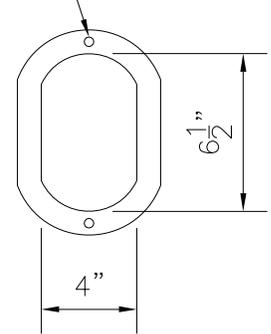
NOTE:
SEE
GENERAL
NOTES



SECTION A
REINFORCING SLEEVE,
BASE PLATE, AND HANDHOLE

SCALE: ¾" = 1'-0"

DRILL AND TAP
FRAME FOR (2)
¼" - 20 UNC ¾"
LONG STAINLESS
HEX HEAD CAP
SCREWS



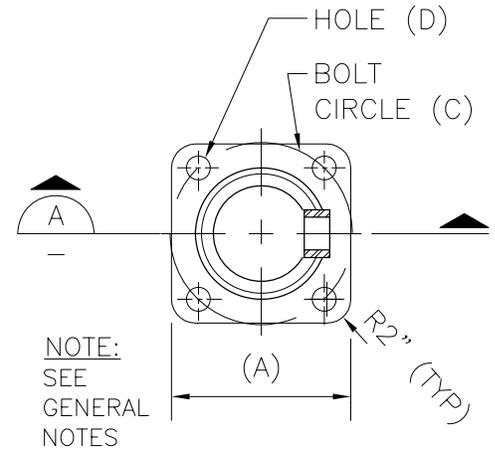
ELEVATION B
HANDHOLE
(WITHOUT COVER)

SCALE: 3" = 1'-0"

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD & (S) STEEL POLE PURCHASE REQUIREMENTS PLATE & SLEEVE DETAILS	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO:			SHT 6 OF 16

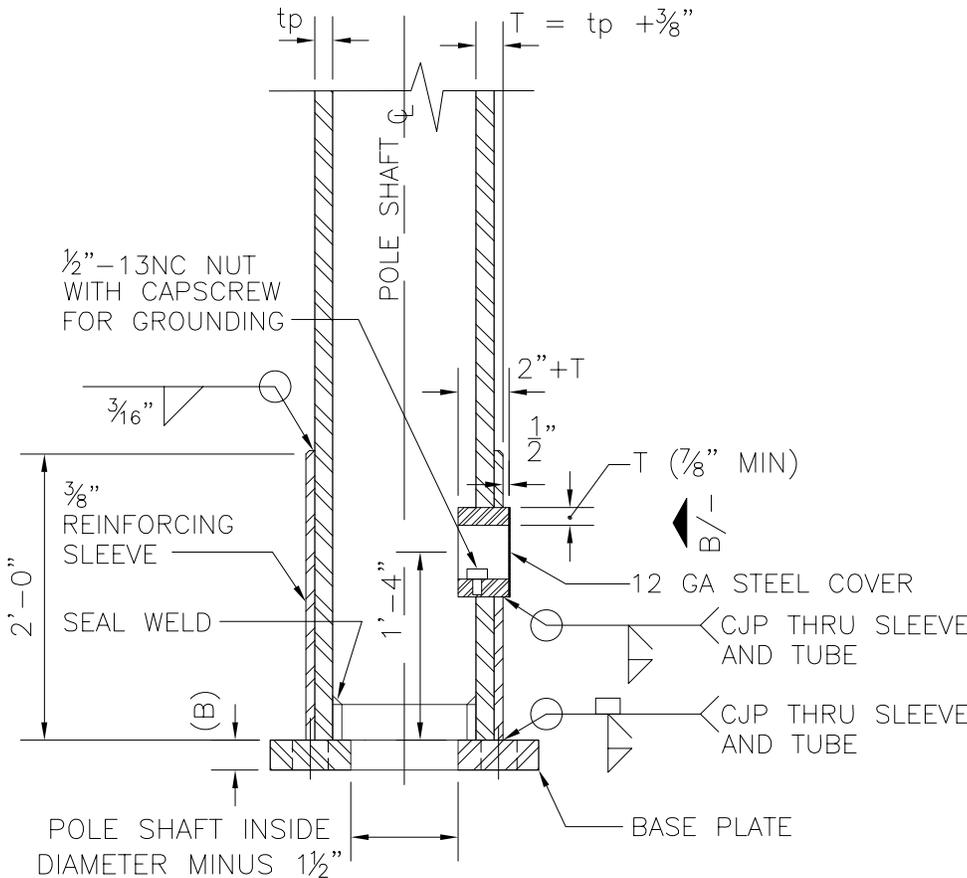
POLE BASE PLATE DIMENSIONS

POLE TYPE	PLATE WIDTH x LENGTH (A)	PLATE THICKNESS (B)	BOLT CIRCLE (C)	HOLE DIA (D)
SA-201V(C)	23 x 23	1 3/4	18	2 1/16
SA-201X(C)	23 x 23	2	20	2 5/16
SA-201Y(C)	23 x 23	2 1/4	22	2 13/16
SA-201X(CS)	23 x 23	2	18	2 1/16
SA-201Y(CS)	23 x 23	2 1/4	20	2 5/16
SA-201Z(C)	23 x 23	2 1/2	22	2 13/16



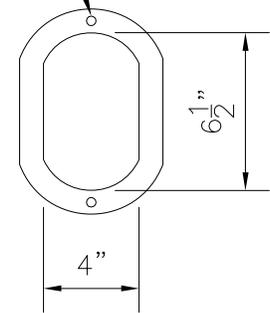
BASE PLATE
NOT TO SCALE

(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION
 (C) = CHIEF SEATTLE BASE
 (CS) = CHIEF SEATTLE BASE, SPECIAL



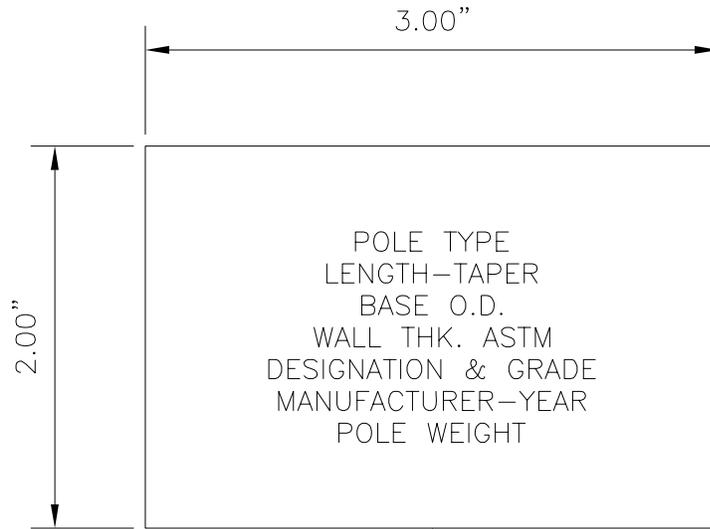
SECTION A
REINFORCING SLEEVE,
BASE PLATE, AND HANDHOLE
SCALE: 3/4" = 1'-0"

DRILL AND TAP
 FRAME FOR (2)
 1/4" - 20 UNC 3/4"
 LONG STAINLESS
 HEX HEAD CAP
 SCREWS



ELEVATION B
HANDHOLE
(WITHOUT COVER)
SCALE: 3" = 1'-0"

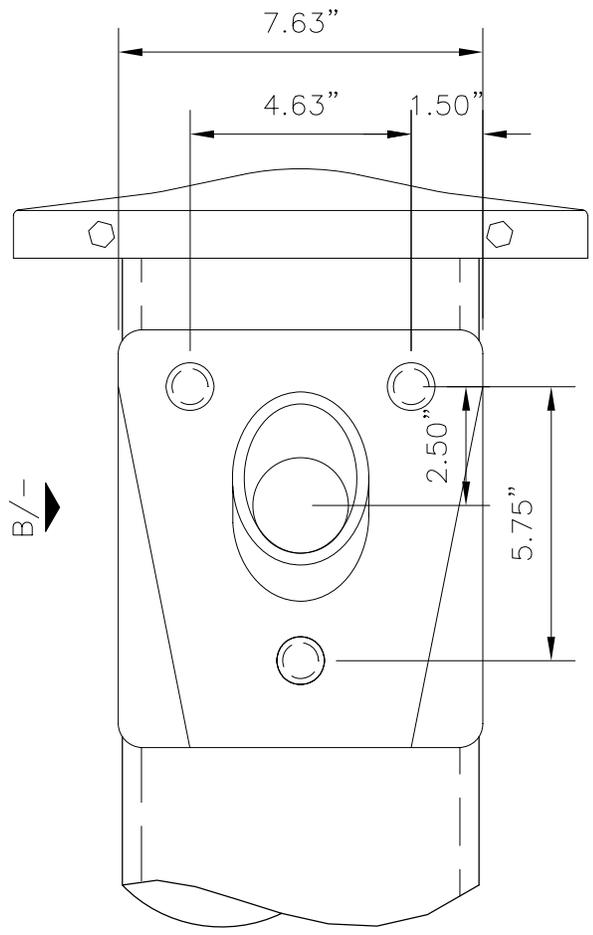
DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		(C) & (CS) STEEL POLE PURCHASE REQUIREMENTS PLATE & SLEEVE DETAILS	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 7 OF 16



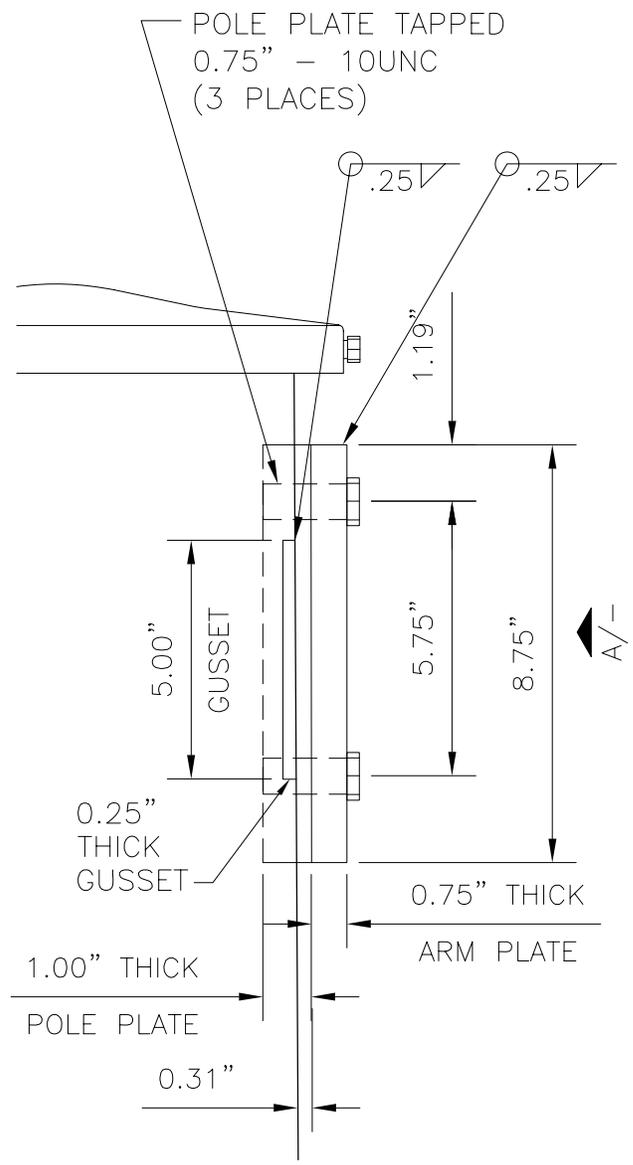
ALUMINUM IDENTIFICATION TAG
 SECURED TO SHAFT WITH (4)
 0.19" RIVETS. TAG STAMPED AS
 SHOWN WITH 0.1" HIGH TEXT

POLE IDENTIFICATION TAG
DETAIL

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS	FILE
RECOM. J DAVIS	IBIS NO: 430338		POLE IDENTIFICATION TAG	DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 8 OF 16



SIDE VIEW A

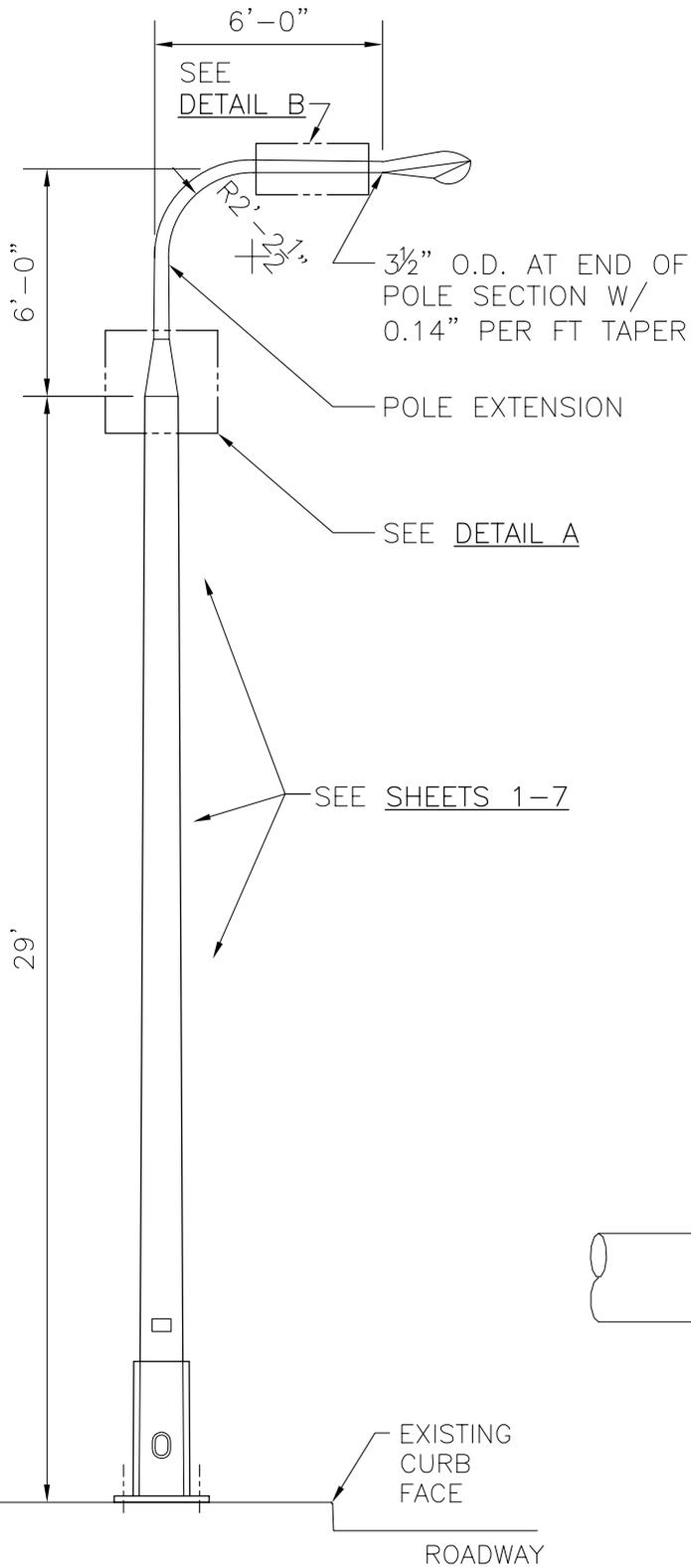


FRONT VIEW B

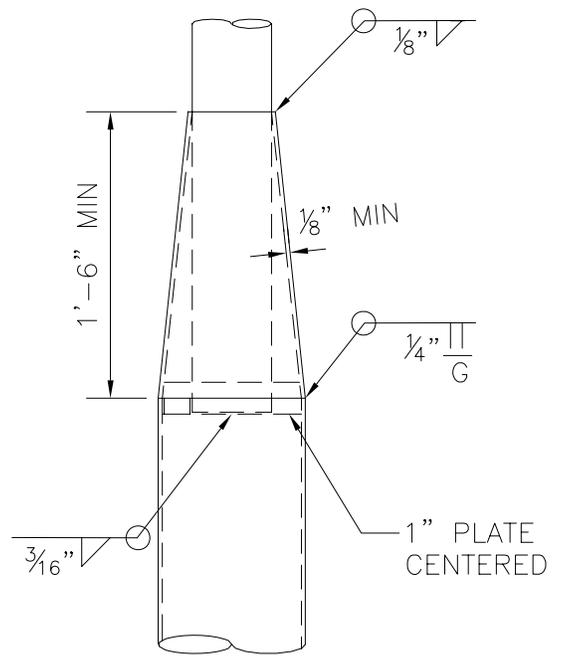
BRACKET ARM LUMINAIRE FLANGE

SCALE: 3" = 1'-0"

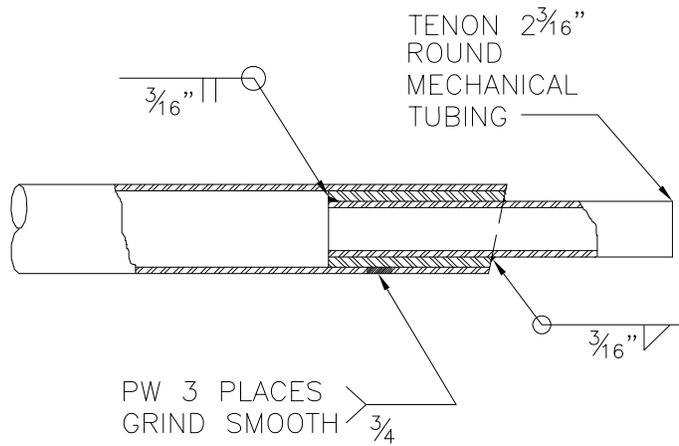
DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 9 OF 16



DAVIT ARM STEEL POLE
SCALE: 1" = 5'-0"

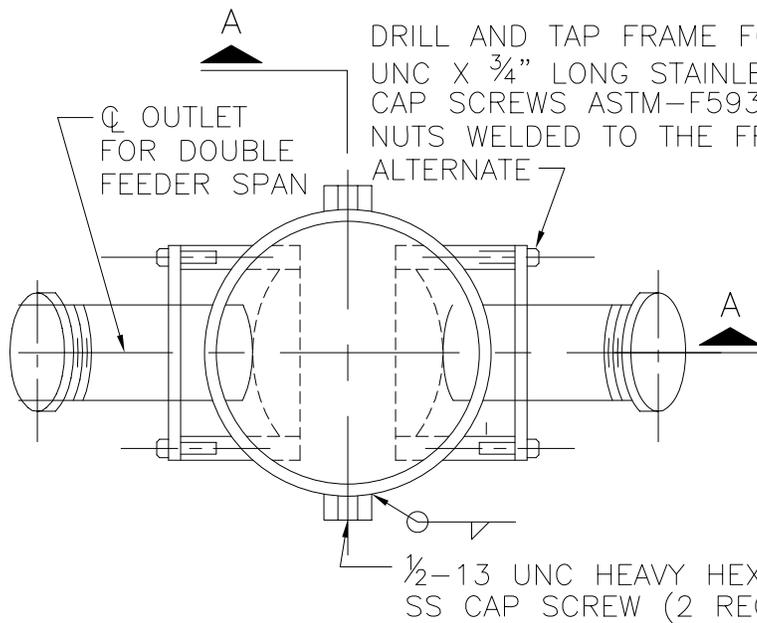


DETAIL A
REDUCING CONE
SCALE: 1" = 1'-0"



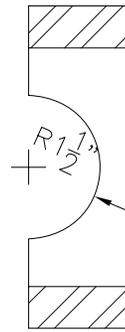
DETAIL B
LUMINAIRE TENON
SCALE: NONE

DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS DAVIT ARM POLE DETAILS	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 10 OF 16



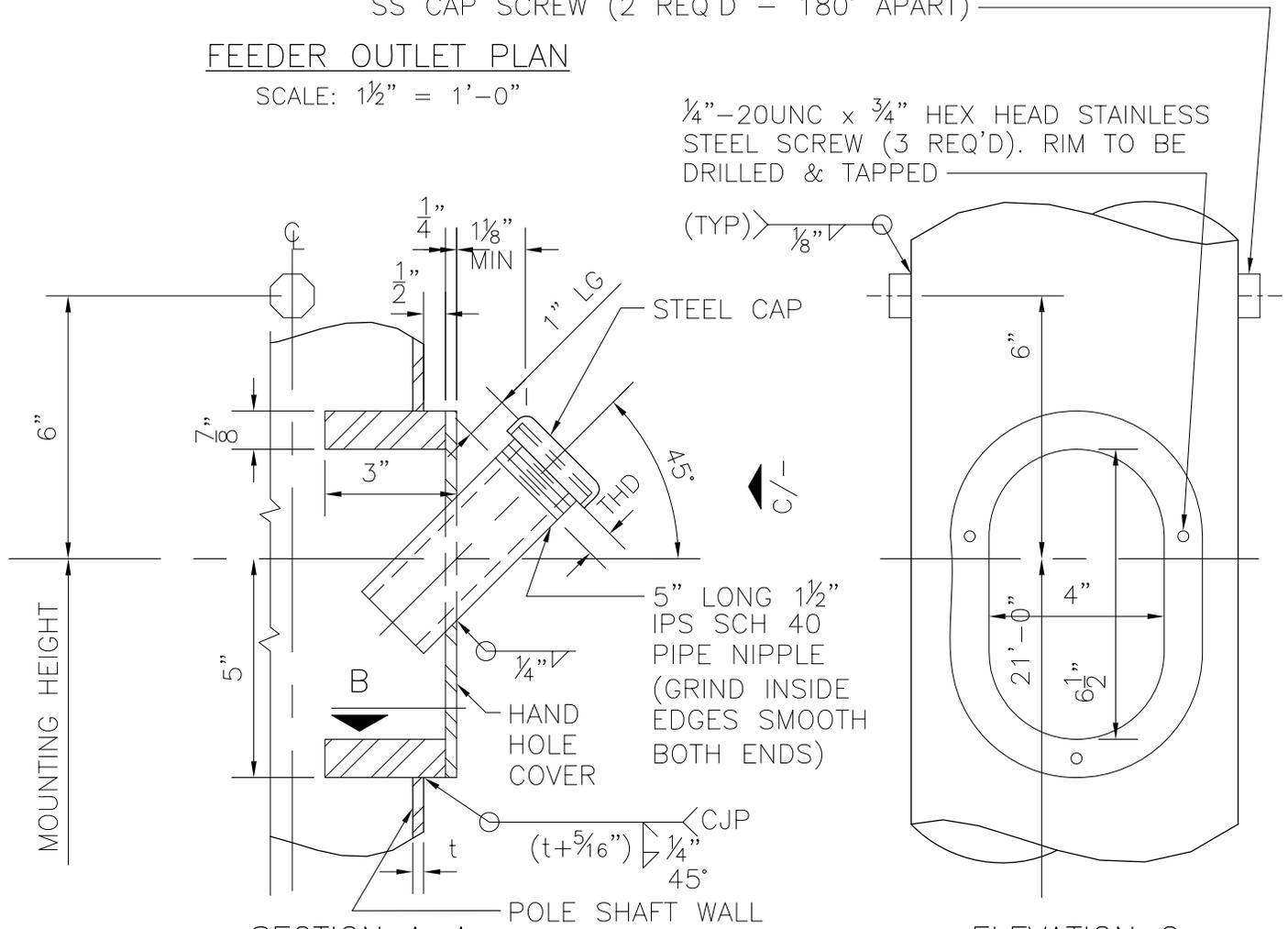
FEEDER OUTLET PLAN

SCALE: 1/2" = 1'-0"



SECTION B

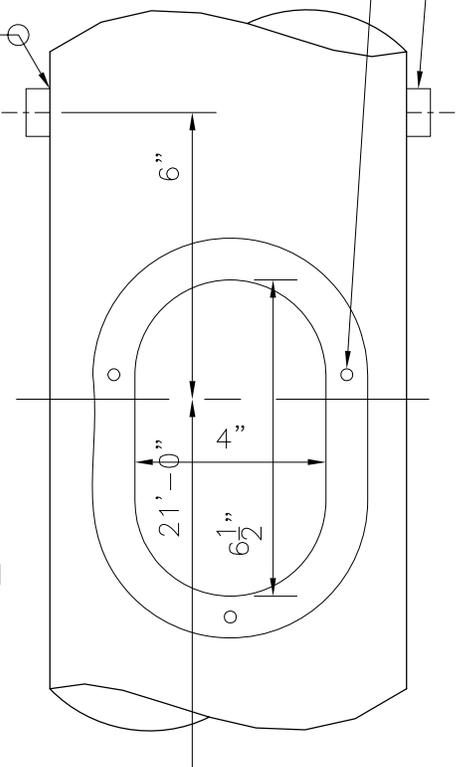
SCALE 3" = 1'-0"



SECTION A-A

FEEDER RISER OUTLET DETAIL

SCALE: 3" = 1'-0"



ELEVATION C

OUTLET WITHOUT COVER

SCALE 3" = 1'-0"

DESIGNED A WOLAK	CHKD: D GREER
DR: B FARISSB	SCALE: NONE
RECOM. J DAVIS	IBIS NO: 430338
APPROVED D CRIPPEN	CONTRACT NO: -

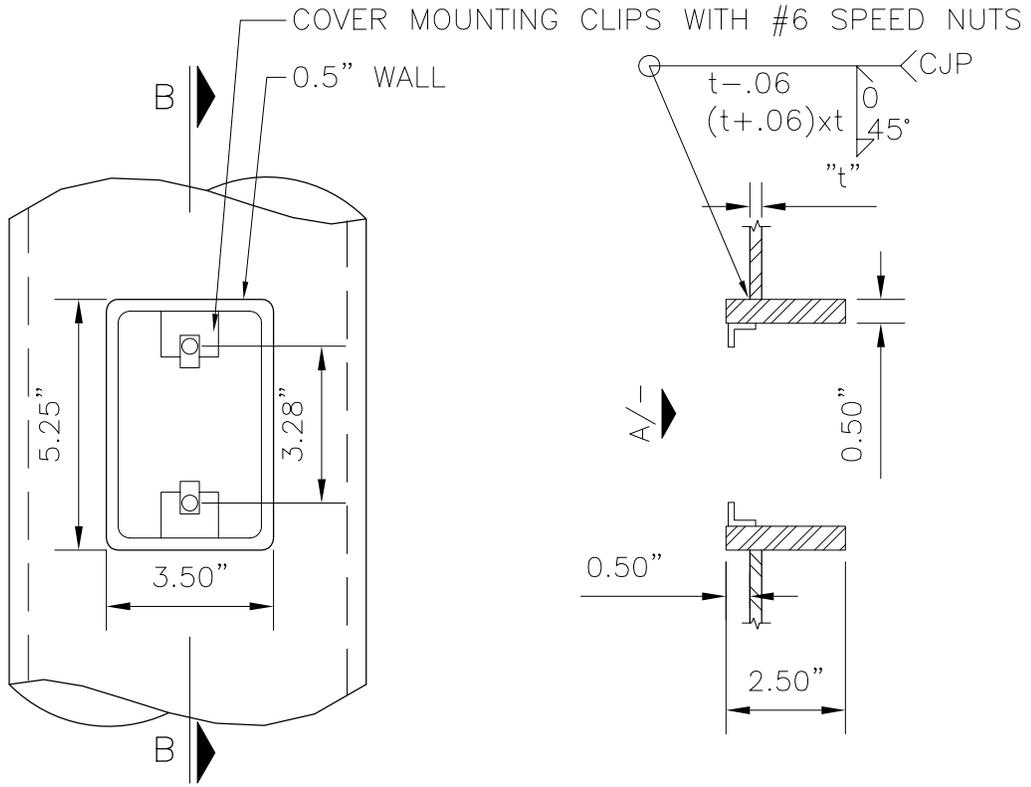
CHKD: D GREER	SCALE: NONE
IBIS NO: 430338	CONTRACT NO: -



METRO TRANSIT DIVISION
TROLLEY STANDARDS
TROLLEY POLE CONTRACT

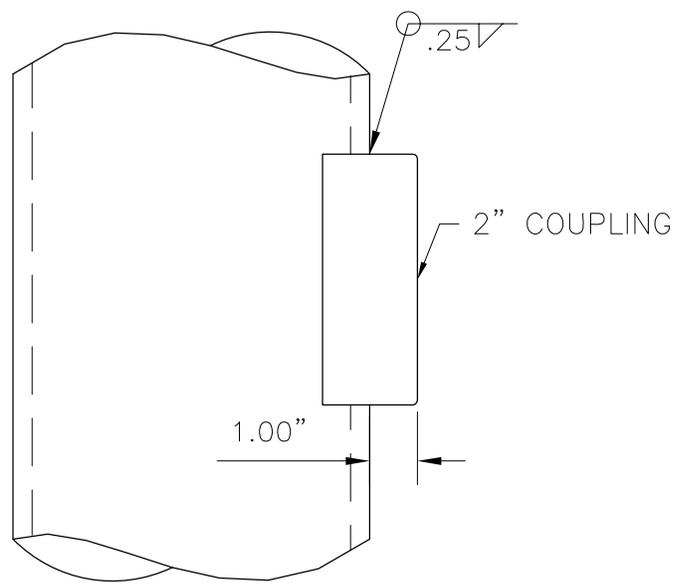
**STANDARD STEEL POLE
PURCHASE REQUIREMENTS
RISER OUTLET DETAILS**

DATE: JULY 2008
FILE
DWG. NO. SP-201
SHT 11 OF 16



FESTOON OUTLET BOX

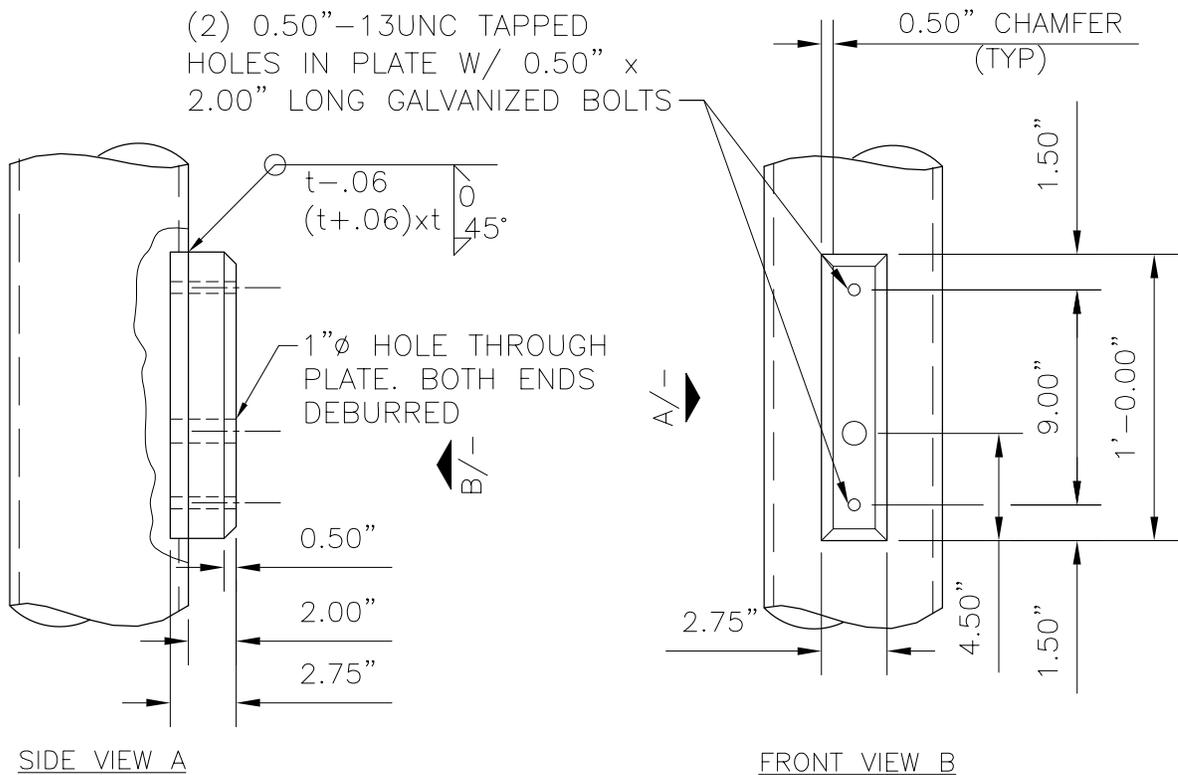
SCALE: 3" = 1'-0"



CABLE OUTLET

SCALE: 3" = 1'-0"

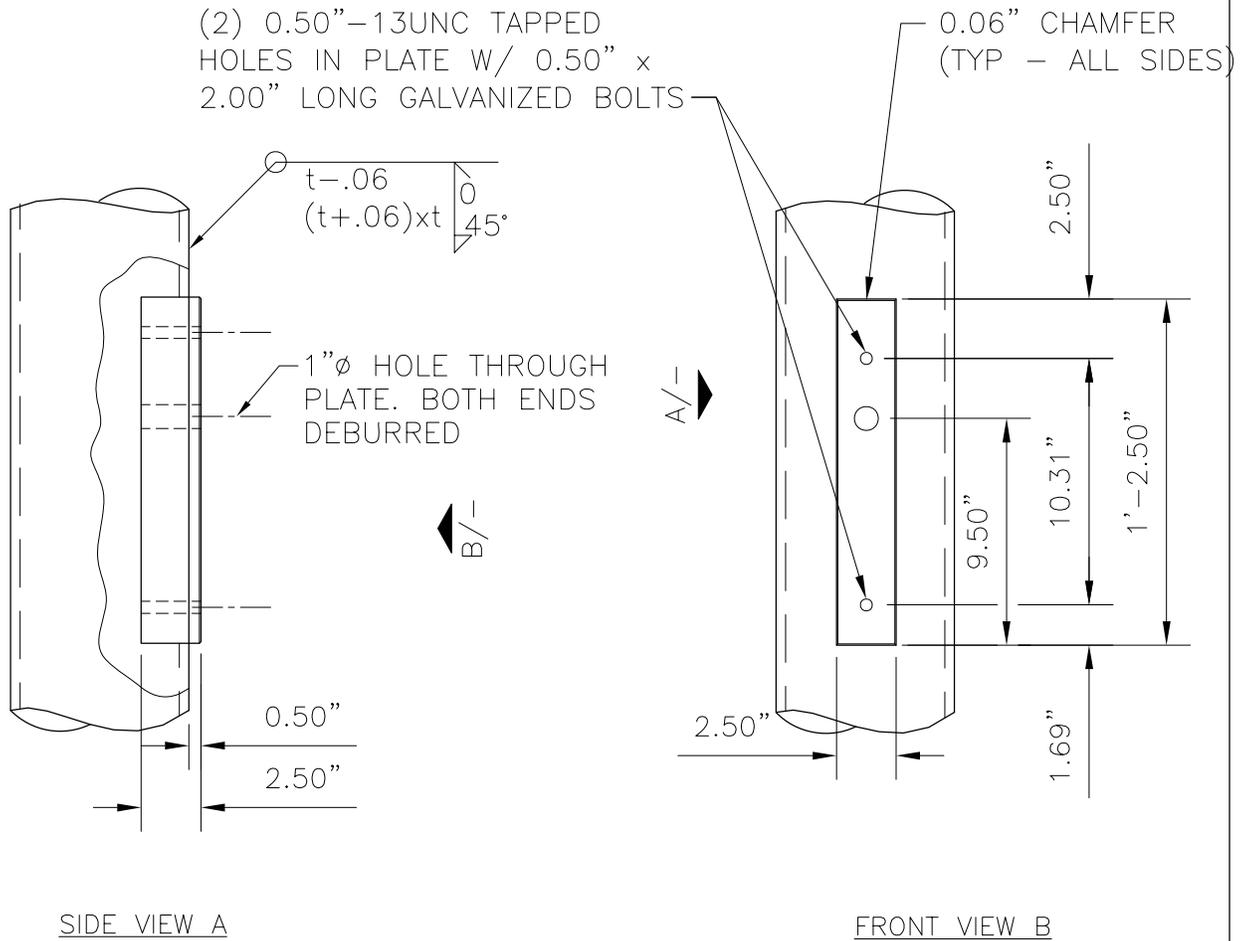
DESIGNED A WOLAK	CHKD: D GREER		METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT STANDARD STEEL POLE PURCHASE REQUIREMENTS OUTLET DETAILS	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE			FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 12 OF 16



BELLTOWN PEDESTRIAN
 LIGHT MOUNTING PLATE

SCALE: 1/2" = 1'-0"

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	FILE
RECOM. J DAVIS	IBIS NO: 430338		DWG. NO. SP-201	
APPROVED D CRIPPEN	CONTRACT NO: -		SHT 13 OF 16	



WESTLAKE PEDESTRIAN
LIGHT MOUNTING PLATE

SCALE: 1/2" = 1'-0"

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS LIGHT MOUNTING DETAIL	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 14 OF 16

GENERAL NOTES

1. MATERIALS

- A. POLE SHAFTS, REINFORCING SLEEVES, HANDHOLE FRAMES AND FEEDER RISER FRAMES SHALL COMFORM TO ASTM A595 GRADE A OR B, A572 GRADE 50, 60 OR 65 OR OTHER MATERIAL IN ACCORD WITH AWS D1.1 SECTION 10.2. ASTM A588 AND A242 MATERIALS ARE NOT ALLOWED. HANDHOLE FRAMES AND FEEDER RISER FRAMES SHALL BE FABRICATED FROM PLATE WITH THE SAME YIELD STRENGTH MATERIAL AS THE POLE SHAFT. THE POLE SHAFT AND REINFORCING SLEEVE SHALL BE FABRICATED OF THE SAME MATERIAL TYPE AND YIELD STRENGTH.
- B. BASE PLATES SHALL CONFORM TO ASTM A572 GRADE 50.
- C. POLE CAPS SHALL BE CAST ALUMINUM, GALVANIZED CAST IRON OR GALVANIZED PRESSED STEEL, FITTED WITH THREE STAINLESS STEEL SET SCREWS
- D. FEEDER RISER NIPPLES SHALL BE STANDARD STEEL PIPE CONFORMING TO ASTM A53, GRADE B.
- E. GROUNDING NUTS SHALL BE 1/2 INCH X 13 NC. CAP SCREWS SHALL BE HEX HEAD STAINLESS STEEL OR BRONZE. TAPPED HOLES IN THE HANDHOLE FRAMES MAY BE FURNISHED IN LIEU OF NUTS WELDED TO THE HANDHOLE FRAMES.
- F. HANDHOLE COVER AND FEEDER RISER SCREWS SHALL BE STAINLESS STEEL HEX HEAD CAP SCREWS.
- G. IMPACT TOUGHNESS TESTS SHALL BE PERFORMED FOR ALL STRUCTURAL STEEL MATERIALS OVER 0.5 INCH THICK OR WITH FY>42 KSI. BASE PLATES, HANDHOLE FRAMES, FEEDER RISER FRAMES, POLE SHAFTS AND POLE SLEEVES SHALL BE TESTED IN ACCORDANCE WITH THE CHARPY V-NOTCH TEST AS SPECIFIED IN ASTM A370. THE MINIMUM ENERGY VALUE SHALL BE 15 FT-LBS AT 0 DEGREES FAHRENHEIT.
- H. SILICON CONTENT IN THE STEEL SHALL BE 0.06% MAXIMUM.

2. FABRICATION

- A. POLES SHALL BE MINIMUM 8-SIDED WITH 2" MINIMUM BEND RADIUS.
- B. ALL WELDS, MATERIAL, PROCEDURES AND OPERATIONS SHALL CONFORM TO THE AWS D1.1; SECTION 2, DESIGN OF WELDED CONNECTIONS; SECTION 3, WORKMANSHIP; SECTION 4, TECHNIQUE; AND SECTIONS 8, 9 OR 10.

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE		STANDARD STEEL POLE PURCHASE REQUIREMENTS GENERAL NOTES	FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 15 OF 16

GENERAL NOTES, CONTINUED

FABRICATION, CONTINUED

COMPLETE PENETRATION WELDS SHALL BE GROUND TO ELIMINATE SURFACE CRACKS, NOTCHES AND OTHER LIKELY STRESS CONCENTRATORS.

CIRCUMFERENTIAL WELDS ON POLE SHAFTS SHALL BE COMPLETE PENETRATION FOR THEIR FULL LENGTH. MAXIMUM NUMBER OF LONGITUDINAL WELDS ON POLE SHAFTS SHALL BE TWO.

REINFORCING SLEEVE WELDED JOINTS SHALL BE WATERTIGHT.

- C. HOT-DIP GALVANIZING SHALL BE PERFORMED AFTER FABRICATION. THE POLES, FITTINGS AND ACCESSORIES SHALL BE GALVANIZED INSIDE AND OUT, IN CONFORMANCE WITH ASTM A123 OR ASTM A153 WITH PRECAUTIONS AGAINST EMBRITTLEMENT IN ACCORDANCE WITH ASTM A143. ALL POLE FABRICATIONS SHALL BE GALVANIZED FOR THEIR ENTIRE LENGTH, AT ONE TIME IN A SINGLE HOT-DIP GALVANIZING BATH. GALVANIZING BY SUCCESSIVE DIPPINGS OF PARTIAL POLE LENGTHS WILL NOT BE PERMITTED.

BEFORE GALVANIZING, POLE SHAFT LONGITUDINAL AND CIRCUMFERENTIAL WELDS SHALL BE GROUND FLUSH WITH BASE METAL TO ELIMINATE SURFACE CRACKS. ALL OTHER WELDS AND CUT EDGES SHALL BE GROUND TO ELIMINATE SHARP EDGES AND BURRS.

ZINC REPAIR PAINT SHALL BE IN ACCORDANCE WITH DOD P-21035.

- D. A POLE IDENTIFICATION PLATE SHALL BE ATTACHED TO EACH POLE. THE PLATE SHALL SHOW METRO POLE DESIGNATION, POLE LENGTH, WALL THICKNESS, GROUND LINE DIAMETER, TAPER, POLE SHAFT MATERIAL SPECIFICATION AND GRADE, THE MANUFACTURER'S NAME, AND DATE OF MANUFACTURE. THE PLATE DESIGN, STYLE OF LETTERING AND METHOD OF ATTACHMENT SHALL BE REVIEWED BY THE ENGINEER.

DESIGNED A WOLAK	CHKD: D GREER	 King County	METRO TRANSIT DIVISION TROLLEY STANDARDS TROLLEY POLE CONTRACT STANDARD STEEL POLE PURCHASE REQUIREMENTS GENERAL NOTES	DATE: JULY 2008
DR: B FARISSB	SCALE: NONE			FILE
RECOM. J DAVIS	IBIS NO: 430338			DWG. NO. SP-201
APPROVED D CRIPPEN	CONTRACT NO: -			SHT 16 OF 16