<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STANDARD AND (S) STEEL POLE DETAILS</td>
</tr>
<tr>
<td>2</td>
<td>(C) AND (CS) STEEL POLE DETAILS</td>
</tr>
<tr>
<td>3</td>
<td>STANDARD STEEL EMBEDDED POLE DETAIL</td>
</tr>
<tr>
<td>4</td>
<td>STANDARD STEEL POLE FIXTURE ORIENTATION</td>
</tr>
<tr>
<td>5</td>
<td>STANDARD STEEL POLE SCHEDULE &amp; NOTES</td>
</tr>
<tr>
<td>6</td>
<td>STANDARD AND (S) STEEL POLE PLATE AND SLEEVE DETAILS</td>
</tr>
<tr>
<td>7</td>
<td>(C) AND (CS) STEEL POLE PLATE &amp; SLEEVE DETAILS</td>
</tr>
<tr>
<td>8</td>
<td>STANDARD STEEL POLE IDENTIFICATION TAG DETAIL</td>
</tr>
<tr>
<td>9</td>
<td>STANDARD STEEL POLE LIGHT MOUNTING DETAIL</td>
</tr>
<tr>
<td>10</td>
<td>STANDARD STEEL DAVIT ARM POLE DETAILS</td>
</tr>
<tr>
<td>11</td>
<td>STANDARD STEEL POLE RISER OUTLET DETAILS</td>
</tr>
<tr>
<td>12</td>
<td>STANDARD STEEL POLE OUTLET DETAILS</td>
</tr>
<tr>
<td>13</td>
<td>STANDARD STEEL POLE PEDESTRIAN LIGHT MOUNTING DETAIL—BELLTOWN</td>
</tr>
<tr>
<td>14</td>
<td>STANDARD STEEL POLE PEDESTRIAN LIGHT MOUNTING DETAIL—WESTLAKE</td>
</tr>
<tr>
<td>15</td>
<td>STANDARD STEEL POLE GENERAL NOTES</td>
</tr>
<tr>
<td>16</td>
<td>STANDARD STEEL POLE GENERAL NOTES</td>
</tr>
<tr>
<td>17</td>
<td>STANDARD STEEL POLE ANCHOR BASE POLE DETAILS</td>
</tr>
<tr>
<td>18</td>
<td>STANDARD STEEL POLE ANCHOR BASE POLE DETAILS</td>
</tr>
</tbody>
</table>
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"

- "C" HOOK FOR WIRING & HANDLING: 0.50"Ø COMMERCIAL GRADE HOT ROLLED BAR
- REMOVABLE DOMED POLE CAP
- BRACKET ARM LUMINAIRE FLANGE (WHEN REQUIRED)
- SIGNAL CABLE OUTLETS (2) WHEN REQUIRED
- FEEDER RISER OUTLETS (2) WHEN REQUIRED
- SIGNAL ARM FLANGE
- DIAMETER TAPER = 0.08" TO 0.15"/FT OF LENGTH Ø ≥ 12"
- 0.05" MIN Ø < 12"
- FESTOON OUTLET BOX (WHEN REQUIRED)
- BELLTOWN LIGHT MOUNTING PLATE (1) WHEN PRESENT
- \( \frac{3}{4} \)" THICK REINFORCING SLEEVE
- HANDHOLE
- GROUND LINE DIAMETER Ø TOP OF BASE PLATE (EXCLUDING REINFORCING SLEEVE)
- EXISTING FACE OF CURB
- ROADWAY
- BASE PLATE (SEE DETAILS/SHEET 8)

**STANDARD AND SPECIAL STEEL POLES**

SCALE: \( \frac{3}{8}" = 1'-0" \)

**NOTE:**

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

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

SCALE: $\frac{1}{8}" = 1' - 0"

CHIEF SEATTLE BASE AND CHIEF SEATTLE BASE SPECIAL STEEL POLES
EMBEDDED STEEL POLE

SCALE: 1" = 5'-0"

- **POLE DETAILS**
  - **IDENTIFICATION PLATE**
  - **GROUND LINE DIAMETER @ GRADE (EXCLUDING REINFORCING SLEEVE)**
  - **0.38" REINFORCING SLEEVE**
  - **½" - 13 UNC NUT WITH CAP SCREW FOR GROUNDING**

- **REMOVABLE DOMED POLE CAP**

- **SEE POLE DETAILS & POLE SCHEDULE, SHEET 5**

- **DIAMETER TAPER = 0.10" TO 0.15"/FT OF LENGTH**

- **POLE LENGTH (L)**
  - 35'-0"

- **SHR NO:**
  - **DATE:**
  - **STD DET No:**
  - **DSGN/DWN:**
    - A WOLAK
    - D GREER
    - D CRIPPEN

- **JULY 2008**

- **METRO TRANSIT DIVISION**
  - **TROLLEY STANDARDS**

- **STANDARD STEEL POLE**
  - **PURCHASE REQUIREMENTS**
  - **POLE DETAILS**

- **APPROVED:**
  - **Department of Transportation**

- **NO.**
  - **REVISION**
  - **BY:**
  - **APPR'D DATE**
  - **DATE**
  - **SHEET NO:**
  - **SP201**
  - **18**
NON-STANDARD TYPE FIXTURE ORIENTATION

STANDARD TYPE FIXTURE ORIENTATION

SIGNAL CABLE OUTLET
- 135°
- 225°

FEEDER RISER OUTLET
- 90°

HANDHOLE, FESTOON OUTLET, FEEDER RISER OUTLET
- 270°

WESTLAKE LIGHT MOUNTING PLATE

SIGNAL CABLE OUTLET
- 180°

HANMDHOLE, FESTOON OUTLET, SIGNAL HANDHOLE

BELLTOWN LIGHT MOUNTING PLATE

STANDARD STEEL POLE PURCHASE REQUIREMENTS FIXTURE ORIENTATION

METRO TRANSIT DIVISION TROLLEY STANDARDS

DATE: DEC 2008

SP201

No. 4 18
# POLE SCHEDULE (WITHOUT SLEEVES)

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>POLE STYLE</th>
<th>NORMAL LENGTH (L) (FEET)</th>
<th>MAX. GROUND LINE ACROSS FLATS (INCHES)</th>
<th>WORKING LOAD (LB) @ 25' FOR ΔD ONLY</th>
<th>(My) GROUND LINE MOMENT (LB·FT)</th>
<th>POLE FOUNDATION TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA–201H</td>
<td>EMBEDDED</td>
<td>35</td>
<td>12</td>
<td>2200</td>
<td>110,000</td>
<td>SA–212B</td>
</tr>
<tr>
<td>SA–201K</td>
<td></td>
<td></td>
<td>14</td>
<td>3600</td>
<td>180,000</td>
<td>SA–212D</td>
</tr>
<tr>
<td>SA–201M</td>
<td></td>
<td></td>
<td>15</td>
<td>6600</td>
<td>330,000</td>
<td>SA–212F</td>
</tr>
<tr>
<td>SA–203–1</td>
<td>ANCHOR BASE</td>
<td>30</td>
<td>8</td>
<td>1600</td>
<td>80,000</td>
<td>SA–213A</td>
</tr>
<tr>
<td>SA–203–2</td>
<td></td>
<td></td>
<td>10</td>
<td>2000</td>
<td>100,000</td>
<td>SA–213A</td>
</tr>
<tr>
<td>SA–201V</td>
<td>ANCHOR BASE</td>
<td>28.5</td>
<td>12</td>
<td>2200</td>
<td>110,000</td>
<td>SA–213B</td>
</tr>
<tr>
<td>SA–201X</td>
<td></td>
<td></td>
<td>14</td>
<td>3600</td>
<td>180,000</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201X(S)</td>
<td></td>
<td></td>
<td>12½</td>
<td>3600</td>
<td>180,000</td>
<td>SA–213B</td>
</tr>
<tr>
<td>SA–201Y(S)</td>
<td></td>
<td></td>
<td>14</td>
<td>5400</td>
<td>270,000</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201Z</td>
<td></td>
<td></td>
<td>15</td>
<td>6600</td>
<td>330,000</td>
<td>SA–213F</td>
</tr>
<tr>
<td>SA–201ZZ</td>
<td></td>
<td></td>
<td>15</td>
<td>8000</td>
<td>400,000</td>
<td>SA–213F</td>
</tr>
<tr>
<td>SA–201ZZZ</td>
<td></td>
<td></td>
<td>16</td>
<td>12,000</td>
<td>600,000</td>
<td>SA–213H</td>
</tr>
<tr>
<td>SA–201V(C)</td>
<td>ANCHOR BASE W/</td>
<td>28.5</td>
<td>11½*</td>
<td>2200</td>
<td>110,000</td>
<td>SA–213B</td>
</tr>
<tr>
<td></td>
<td>SMALL DIAMETER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SHAFT FOR CHIEF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SEATTLE CASTING</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SA–201Y(C)</td>
<td></td>
<td></td>
<td>31.5</td>
<td>11½*</td>
<td>3600</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201X(CS)</td>
<td></td>
<td></td>
<td></td>
<td>11½*</td>
<td>5400</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201Y(CS)</td>
<td></td>
<td></td>
<td></td>
<td>11½*</td>
<td>5400</td>
<td>SA–213D</td>
</tr>
<tr>
<td>SA–201Z(C)</td>
<td></td>
<td></td>
<td></td>
<td>11½*</td>
<td>6600</td>
<td>SA–213F</td>
</tr>
</tbody>
</table>

ΔD = DEFLECTION
(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION (C) = CHIEF SEATTLE BASE
(CS) = CHIEF SEATTLE BASE, SPECIAL; *12½" Ø ROUND OK AS ALTERNATIVE.

## POLE SCHEDULE NOTES

1. POLE MANUFACTURER SHALL DESIGN POLE BASED ON THE DATA SHOWN HERE AND IN CONFORMANCE TO THE SPECIFICATIONS.

2. MINIMUM WALL THICKNESS SHALL BE 3 GAGE. WALL SHALL BE SINGLE PLY AND THE SAME MATERIAL FULL LENGTH.

3. MINIMUM GROUND LINE MOMENT AT YIELD SHALL BE (My).

4. NOT USED

5. 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".

6. STRENGTH CALCULATIONS SHALL BE BASED ON GROUND LINE DIAMETER ONLY AND SHALL NOT INCLUDE THE REINFORCING SLEEVE.
## Pole Base Plate Dimensions

<table>
<thead>
<tr>
<th>Pole Type</th>
<th>Plate Width x Length (A)</th>
<th>Plate Thickness (B)</th>
<th>Bolt Circle (C)</th>
<th>Hole Diameter (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA-203-1</td>
<td>14 x 14</td>
<td>1½</td>
<td>11½-13½</td>
<td>1¼-1³/₈</td>
</tr>
<tr>
<td>SA-203-2</td>
<td>16 x 16</td>
<td>1¾</td>
<td>14½-16½</td>
<td>1¹/₁₆-1³/₈</td>
</tr>
<tr>
<td>SA-201V</td>
<td>18 x 18</td>
<td>2</td>
<td>20</td>
<td>2¾</td>
</tr>
<tr>
<td>SA-201X</td>
<td>20 x 20</td>
<td>2</td>
<td>2</td>
<td>2¾</td>
</tr>
<tr>
<td>SA-201X(S)</td>
<td>20 x 20</td>
<td>2</td>
<td>2</td>
<td>2¾</td>
</tr>
<tr>
<td>SA-201Y(S)</td>
<td>23 x 23</td>
<td>2¼</td>
<td>20</td>
<td>2¾</td>
</tr>
<tr>
<td>SA-201Z</td>
<td>23 x 23</td>
<td>2½</td>
<td>22</td>
<td>2⅓</td>
</tr>
<tr>
<td>SA-201ZZ</td>
<td>23 x 23</td>
<td>2½</td>
<td>22</td>
<td>2⅓</td>
</tr>
<tr>
<td>SA-201ZZZ</td>
<td>25 x 25</td>
<td>3</td>
<td>24</td>
<td>3¾</td>
</tr>
</tbody>
</table>

**Note:**
(S) = SPECIAL: OVERSIZED POLE ON EXISTING FOUNDATION

---

**Section A**

**Reinforcing Sleeve, Base Plate, and Handhole**

Scale: \( \frac{3}{₄}" = 1' - 0" \)

- **Handhole (Without Cover):**
  Scale: \( 3" = 1' - 0" \)

- **Base Plate:**
- **T Tube:**
- **Reinforcing Sleeve:**
- **½"-13NC Nut with Cap Screw for Grounding:**
- **3"-6" Seal Weld:**
- **Pole Shaft Inside Diameter Minus 1½"**
- **1" 12 GA Steel Cover:**
- **CJP Thru Sleeve and Tube:**
- **CJP Thru Sleeve and Tube:**

---

**Base Plate**

Not to Scale

**Note:**
See General Notes

**Elevation B**

**Handhole**

**Scale:**

- **Drill and Tap:**
  - Frame for (2) ¼"-20 UNC ¾"
  - Long Stainless Hex Head Cap Screws
POLE BASE PLATE DIMENSIONS

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>PLATE WIDTH x LENGTH (A)</th>
<th>PLATE THICKNESS (B)</th>
<th>BOLT CIRCLE (C)</th>
<th>HOLE DIA (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA–201V(C)</td>
<td>23 x 23</td>
<td>2</td>
<td>18</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA–201X(C)</td>
<td>23 x 23</td>
<td>2</td>
<td>20</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA–201Y(C)</td>
<td>23 x 23</td>
<td>⅛2</td>
<td>22</td>
<td>2⅛⅜</td>
</tr>
<tr>
<td>SA–201X(CS)</td>
<td>23 x 23</td>
<td>2</td>
<td>18</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA–201Y(CS)</td>
<td>23 x 23</td>
<td>⅛2</td>
<td>20</td>
<td>2⅛</td>
</tr>
<tr>
<td>SA–201Z(C)</td>
<td>23 x 23</td>
<td>⅛2</td>
<td>22</td>
<td>2⅛⅜</td>
</tr>
</tbody>
</table>

(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: ⅜" = 1'-0"

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

NOTE: SEE GENERAL NOTES

DRILL AND TAP FRAME FOR (2)  
⅛"- 20 UNC ⅜" LONG STAINLESS HEX HEAD CAP SCREWS

(20) METRO TRANSIT DIVISION  
TROLLEY STANDARDS

(C) & (CS) STEEL POLE  
PURCHASE REQUIREMENTS  
PLATE & SLEEVE DETAILS

DATE: JUNE 2016

No. REVISION BY APP'D DATE

King County  
Department of Transportation
POLE IDENTIFICATION TAG
DETAIL

POLE TYPE
LENGTH—TAPER
BASE O.D.
WALL THK. ASTM
DESIGNATION & GRADE
MANUFACTURER—YEAR
POLE WEIGHT

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

3.00"

1/4"
RADIUS TYPICAL
ALL SIDES

2.00"
POLE PLATE TAPPED
0.75" - 10UNC
(3 PLACES)

0.25\(\sqrt{\phantom{X}}\)
0.25\(\sqrt{\phantom{X}}\)

0.25" THICK GUSSET

1.00" THICK POLE PLATE

0.31"

5.00"

5.75"

8.75"

SIDE VIEW A

FRONT VIEW B

BRACKET ARM LUMINAIRE FLANGE

SCALE: 3" = 1'-0"

APPROVED:
Department of
Transportation

No.

REVISION

BY

APPD DATE

DATE:
JULY 2008

STANDARD STEEL POLE
PURCHASE REQUIREMENTS
LIGHT MOUNTING DETAIL

METRO TRANSIT DIVISION
TROLLEY STANDARDS

SHT NO:
DATE:

STD DET NO:

DSGN/DWN:
A WOLAK
D GREER
D CRIPPEN

JULY 2008
**DAVIT ARM STEEL POLE**

**SCALE:** 1” = 5’-0”

**DETAIL B**

**LUMINAIRE TENON**

**SCALE:** NONE

**DETAIL A**

**REDUCING CONE**

**SCALE:** 1” = 1’-0”

**PURCHASE REQUIREMENTS**

**DAVIT ARM POLE DETAILS**

---

**DGN/DWN:**

A WOLAK
D GREER
D CRIPPEN

**DATE:** JULY 2008

**SP-201**
DRILL AND TAP FRAME FOR (2) \( \frac{3}{4}" \times 20 \) UNC X \( \frac{3}{4}" \) LONG STAINLESS HEX HEAD CAP SCREWS ASTM-F593 COUPLING NUTS WELDED TO THE FRAME AS ALTERNATE.

\( \frac{3}{2} \)-13 UNC HEAVY HEX GROUNDING NUT W/ SS CAP SCREW (2 REQ'D - 180° APART)

SECTION B
SCALE 3" = 1'-0"

FEEDER OUTLET PLAN
SCALE: 1\( \frac{1}{2} " = 1' - 0" \)

\( \frac{3}{4} " \)-20 UNC X \( \frac{3}{4} " \) HEX HEAD STAINLESS STEEL SCREW (3 REQ'D). RIM TO BE DRILLED & TAPPED (TYP)

STEEL CAP

5" LONG \( 1\frac{1}{2} " \) IPS SCH 40 PIPE NIPPLE (GRIND INSIDE EDGES SMOOTH BOTH ENDS)

HAND HOLE COVER

POLE SHAFT WALL

SECTION A-A
FEEDER RISER OUTLET DETAIL
SCALE: 3" = 1'-0"

ELEVATION C
OUTLET WITHOUT COVER
SCALE 3" = 1'-0"

METRO TRANSIT DIVISION
TROLLEY STANDARDS

STANDARD STEEL POLE
PURCHASE REQUIREMENTS
RISER OUTLET DETAILS

DATE: JULY 2008

STDE NO: SP-201

11 18
COVER MOUNTING CLIPS WITH #6 SPEED NUTS

0.5" WALL

ELEVATION VIEW A

SECTION B

FESTOON OUTLET BOX
SCALE: 3" = 1'-0"

CABLE OUTLET
SCALE: 3" = 1'-0"

2" COUPLING

.25"
(2) 0.50”-13UNC TAPPED HOLES IN PLATE W/ 0.50” x 2.00” LONG GALVANIZED BOLTS

1”Ø HOLE THROUGH PLATE, BOTH ENDS DEBURRED

BELLTOWN PEDESTRIAN LIGHT MOUNTING PLATE

SCALE: 1½” = 1’-0”

SIDE VIEW A

FRONT VIEW B
WESTLAK PEDESTRIAN
LIGHT MOUNTING PLATE

SCALE: 1½" = 1'-0"

(2) 0.50"–13UNC TAPPED HOLES IN PLATE W/ 0.50" x 2.00" LONG GALVANIZED BOLTS

0.06" CHAMFER (TYP – ALL SIDES)

1"Ø HOLE THROUGH PLATE. BOTH ENDS DEBURRED

SIDE VIEW A

FRONT VIEW B

2.50"

2.50"
GENERAL NOTES

1. MATERIALS

A. POLE SHAFTS, REINFORCING SLEEVES, HANDHOLE FRAMES, FESTOON FRAMES AND FEEDER RISER FRAMES SHALL CONFORM 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 PRESS 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 ½ 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 FOR ALL TYPE C POLES. ALL OTHERS SHALL BE MINIMUM 10–SIDED.

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.

C. ALL POLES SHALL BE FABRICATED PER THE CURRENT EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
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. **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 BURRRS.

**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.
ITEM 4 POLE PAINTING EXAMPLE

A. COATING MATERIAL: Epoxy primer, polyurethane finish.

B. SURFACE PREPARATION: Wash with a mild solution of detergent and hot water. Rinse complete and allow to dry, prepare for paint application by providing a SSPC SP-2(Hand Tool Clean).

C. COATING:
   Primer: One coat of Tnemec’s 135 Chembuild, applied at 7–8 mils dry film thickness.
   Finish: One coat of Tnemec’s Series 74, applied at 4–5 mils dry film thickness.

D. COLOR: Tnemec’s Aztec Red PL01, LRV 10%.
SPECIAL TOP PLATE DETAIL

PLAN VIEW

NOTE: NO HANDLING STRAP WITH SPECIAL TOP PLATE

SEE POLE DETAIL SHEETS

EXISTING CURB (POLE ORIENTATION)

ROADWAY

ANCHOR BASE STEEL POLE

SPECIAL TOP PLATE DETAIL

SP-201

JULY 2008