

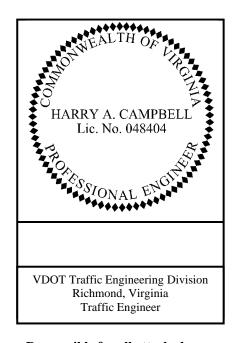
DEPARTMENT OF TRANSPORTATION DIVISION: Traffic Engineering

Road & Bridge Standards Revision

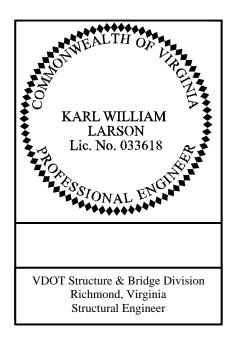
August 15, 2017:

MP-2 Page: 1302.20, MP-3 Pages: 1302.24 & 1302.27 AB-1 Page: 1302.50, LF-1 Page 1310.20, LP-1,2 Page: 1311.10

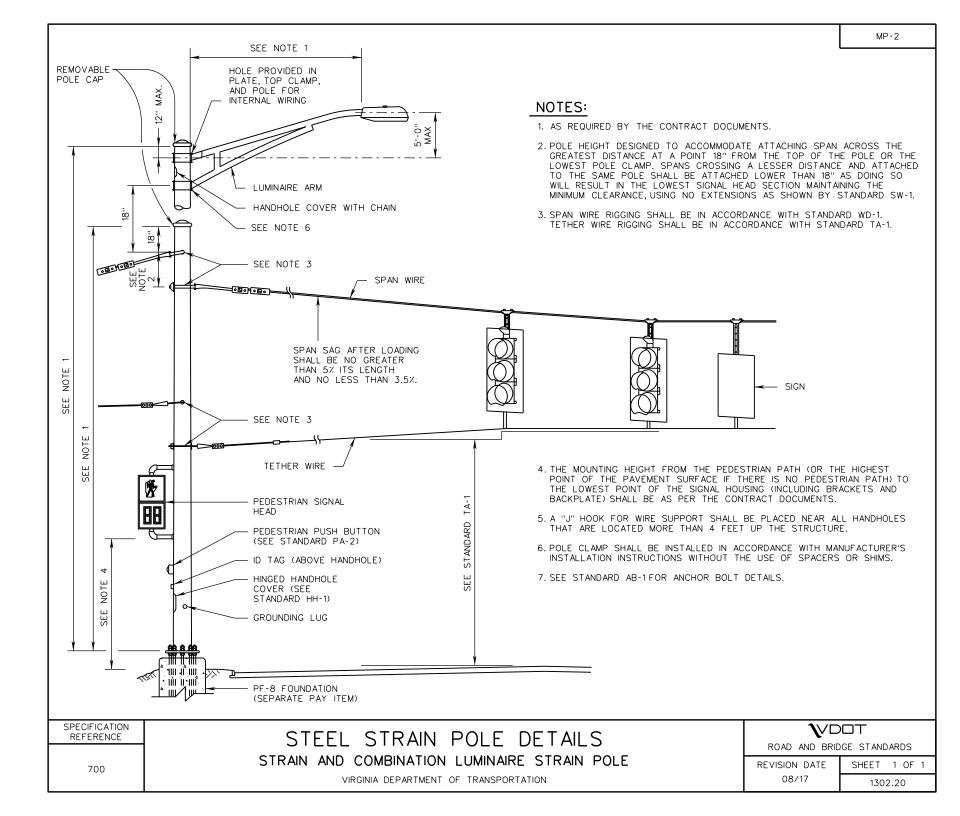
Drawings Submitted By: Harry A. Campbell, P.E. & Karl W. Larson, P.E.

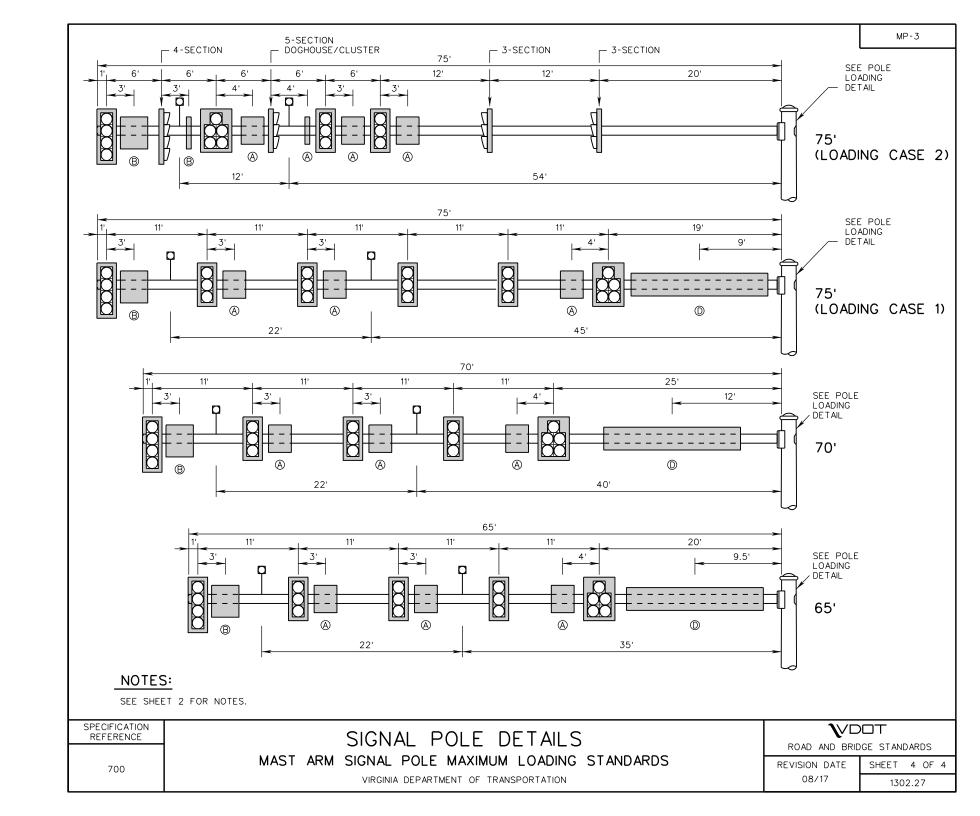


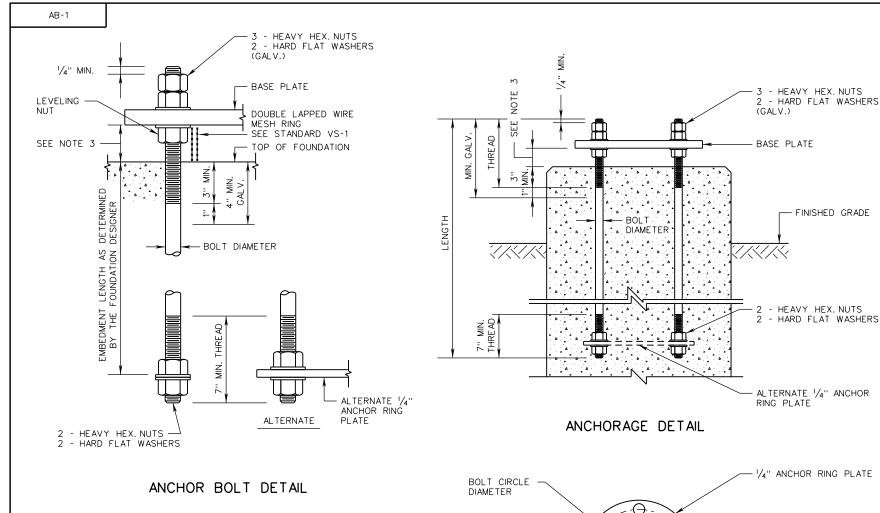
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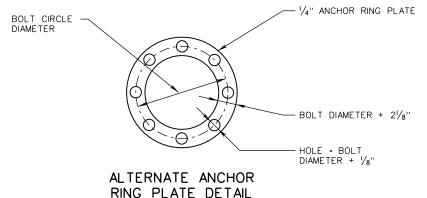






NOTES:

- 1. PROVIDE 5 NUTS AND 4 WASHERS PER ANCHOR BOLT. SEE SPECIFICATIONS FOR NUT INSTALLATION PROCEDURE.
- 2. CONDUITS AND REINFORCING STEEL NOT SHOWN FOR CLARITY.
- 3. DISTANCE BETWEEN BOTTOM OF BASE PLATE AND TOP OF FOUNDATION SHALL BE NO GREATER THAN THE DIAMETER OF ANCHOR BOLT PLUS ONE INCH.
- 4. THIS STANDARD DOES NOT APPLY TO STRUCTURES MOUNTED ATOP TRANSFORMER BASES.



****VDOT ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 REVISION DATE 08/17 1302.50

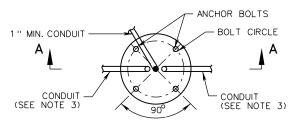
ANCHOR BOLTS INSTALLATION DETAILS

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

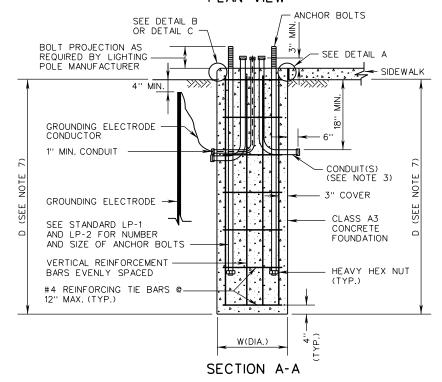
- FINISHED GRADE

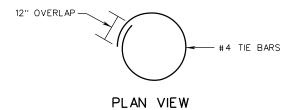
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TYPE	W	D	VERTICAL BARS
А	2'-6''	8'	8 -#8

PLAN VIEW





OF TIE BAR

NOTES:

- CONDUIT ELBOWS SHALL HAVE A 90° BEND. THE BEND RADIUS SHALL BE IN ACCORDANCE WITH THE N.E.C.
- 2. THE BOLT TEMPLATE SHALL BE FURNISHED BY THE LIGHTING POLE MANUFACTURER. POLE SHALL BE CENTERED ON FOUNDATION.
- 3. THE NUMBER, ORIENTATION AND SIZE OF CONDUITS ENTERING AND EXITING FOUNDATIONS SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4" DEEP AND 4" TO 6" LONG. LOCATIONS OF EMPTY CONDUITS SHALL HAVE AN ADDITIONAL 2" LONG MARK MADE PERPENDICULAR TO AND CENTERED ON THIS MARKING.
- 4. NO MORTAR, GROUT, OR CONCRETE SHALL BE PLACED BETWEEN BOTTOM OF BASE PLATE AND TOP OF FOUNDATION.
- 5. ANCHOR BOLTS SHALL BE STRAIGHT. THREADED REINFORCING STEEL IS NOT ALLOWED. 1/4" ANCHOR RING PLATE MAY BE USED TO KEEP ANCHOR BOLTS PLUMB DURING INSTALLATION.
- 6. FOUNDATIONS SHALL NOT BE INSTALLED IN THE CENTER OF A DRAINAGE DITCH. IF APPROVED BY THE ENGINEER, FOUNDATIONS MAY BE INSTALLED IN THE SLOPE OF A DRAINAGE DITCH AT AN APPROVED HEIGHT ABOVE GRADE. THE FOUNDATION SHALL NOT BE PLACED IN THE FROM SLOPE UNLESS THE ENGINEER DETERMINES THAT BACK SLOPE PLACEMENT IS NOT FEASIBLE.
- 7. D IS THE MINIMUM DISTANCE FROM THE BOTTOM OF THE POLE FOUNDATION TO THE BOTTOM OF THE SIDEWALK OR THE POINT OF LOWEST GRADED ELEVATION ADJACENT TO THE FOUNDATION.
- 8. IF POOR SOIL CONDITIONS OR HIGH WATER TABLE IS ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH FOUNDATION INSTALLATION.

SPECIFICATION REFERENCE

LIGHTING POLE FOUNDATION
INSTALLATION DETAILS

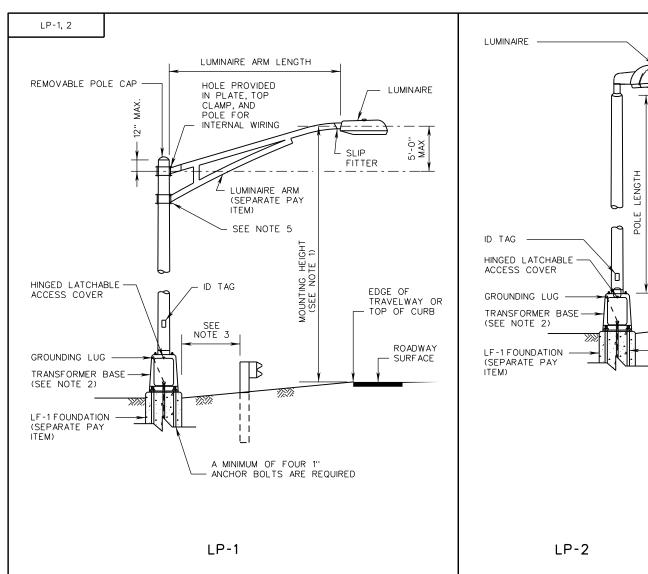
VIRGINIA DEPARTMENT OF TRANSPORTATION

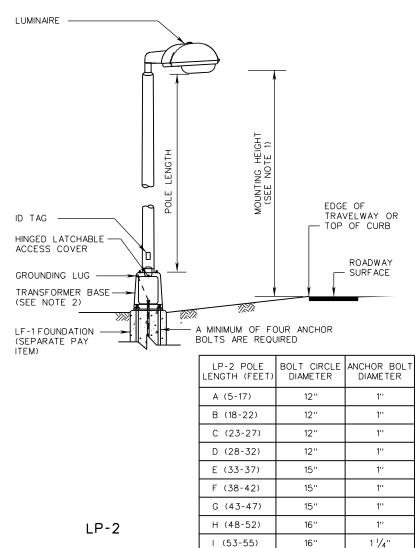
ROAD AND BRIDGE STANDARDS

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NOTES:

- THE MOUNTING HEIGHT SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADHERED TO WITHIN A TOLERANCE OF 12" AND IN NO CASE LESS THAN THE MOUNTING HEIGHT SHOWN.
- 2. TIGHTEN TRANSFORMER BASE NUTS WITH A WRENCH USING TURN-OF-THE-NUT METHOD UNLESS SPECIFIED OTHERWISE IN MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3. LP-1 AND LP-2 LIGHTING POLES SHALL BE LOCATED SUCH THAT THE NEAR SIDE EDGE OF THE FOUNDATION IS OUTSIDE OF THE GUARDRAIL DEFLECTION DISTANCE.
- 4. ALL LP-1 AND LP-2 POLES SHALL BE INSTALLED ON BREAKAWAY OR NON-BREAKAWAY TRANSFORMER BASES, AS SPECIFIED ON THE PLANS. IF LEVELING NUTS ARE USED FOR INSTALLATION, A VARMIT SCREEN SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD VS-1.
- 5. POLE CLAMP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS WITHOUT THE USE OF SPACERS OR SHIMS.

VDDT ROAD AND BRIDGE STANDARDS		LIGHTING POLE	SPECIFICATION REFERENCE
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