

ANB	ANB	ANB	ANB	ANB	APP
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ANB	ANB	ANB	ANB	ANB	APP
new standard					
1/2025					
					ISSUE
					REV

**UTILITY POLE  
INSTALLATION DETAIL**

DATE: JAN 2025  
DESIGN: ANB  
DRAWN: ANB

DRAWING NO.  
**U-1A**  
1 of 2

POLE LOCATION AND CLEARANCES:

1. POLES ARE NOT ALLOWED WITHIN 15-FEET OF THE TOE OF THE LEVEE. NEW POLES ARE NOT ALLOWED IN THE LEVEE RIGHT OF WAY WITHOUT AN ENCROACHMENT PERMIT AND SECTION 408 REVIEW.
2. GUY WIRES, ANCHORS, DISTRIBUTION BOXES AND OTHER APPURTENANCES ARE NOT ALLOWED IN OR BELOW THE LEVEE PRISM, ON THE LEVEE SLOPES OR WITHIN 15-FEET OF THE TOE OF THE LEVEE.
3. MARKERS ARE REQUIRED TO IDENTIFY LOCATION OF BURIED LINES, CONDUITS AND OVERHEAD LINES. MARKERS MUST BE HIGH VISIBILITY, DURABLE, LONG LASTING, FIRE-RETARDANT AND MAINTAINED BY THE APPLICANT.
4. MINIMUM VERTICAL CLEARANCE REQUIRED BETWEEN THE LEVEE CROWN AND THE LOWEST POINT OF ANY OVERHEAD WIRE CROSSING IS 25-FEET. THIS APPLIES TO ALL ELECTRICAL AND COMMS LINES.

BOREHOLES:

5. NEW POLES INSTALLED WITHIN 15-FEET OF THE LEVEE MUST BE INSTALLED IN PRE-DRILLED HOLES TO AVOID VIBRATION THAT CAN CAUSE CRACKING.
6. BORINGS FOR UTILITY POLES MUST ALLOW A MINIMUM DIAMETER EQUAL TO THE DIAMETER OF THE POLE PLUS AN ANNULAR SPACE THAT IS TWICE THE WIDTH OF THE TAMPER.
7. POLES SHOULD BE CENTRALLY INSTALLED IN THE BOREHOLES.
8. BOREHOLES SHALL NOT BE LEFT UNATTENDED FOR MORE THAN 24 HOURS. ALL OPEN BORINGS MUST BE SEALED BEFORE LEAVING THE JOB SITE.
9. BOREHOLES SHOULD BE KEPT DRY DURING BACKFILLING PROCEDURES.

CASINGS:

10. NEW POLES SHALL BE DIRECT BURY. STEEL CASINGS ARE NOT ALLOWED UNLESS APPROVED IN ADVANCE DUE TO HIGH VOLTAGE LINE, POLES TALLER THAN 50-FT, OR OTHER SPECIAL CIRCUMSTANCE.

BACKFILL (IN ORDER OF PREFERENCE):

11. OPTION A: THE PREFERRED BACKFILL IS NATIVE MATERIAL. IF NATIVE MATERIAL IS VERY WET, FINE-GRAINED SILTS, HIGHLY ORGANIC, CONTAINS ROCKS AND FOREIGN MATERIAL, OR IS OTHERWISE UNSUITABLE, USE IMPORT MATERIAL THAT BEST MATCHES (SUITABLE) NATIVE MATERIAL. USE OF NATIVE MATERIAL REQUIRES EXTRA CARE TO SEPARATE MATERIAL FOR RE-USE AND EXTRA COORDINATION WITH CDID#1 TO FIELD VERIFY SUITABILITY PRIOR TO PLACEMENT.
12. OPTION B: FLOWABLE CONTROLLED DENSITY FILL (CDF) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MEETING WSDOT STANDARD SPECIFICATION 2-09.3(1) E.
13. OPTION C: CEMENT-BENTONITE GROUT SLURRY PROPORTIONED AS A 94-POUND SACK OF TYPE 1 PORTLAND CEMENT WITH 5-POUNDS OF POWDERED BENTONITE AND 8-1/2 GALLONS OF WATER.

REMOVED POLES

14. UTILITY POLES SHALL NOT BE ABANDONED IN PLACE. POLES NO LONGER IN SERVICE MUST BE REMOVED AND THE HOLE PROPERLY BACKFILLED WITH BENTONITE OR GROUT DEPENDING ON DIAMETER.

FOR HOLES SMALLER THAN 12" DIAMETER, USE BENTONITE: BACKFILL THE HOLE WITH GRANULATED BENTONITE IN 12-INCH LIFTS. PERFORM HOLE SOUNDINGS TO ENSURE BENTONITE MATERIAL REACHES THE BOTTOM OF THE HOLE AND DOES NOT BRIDGE DURING PLACEMENT. IF THE HOLE CANNOT BE KEPT DRY, USE COATED BENTONITE PELLETS. BACKFILL THE UPPER 2-FEET OF THE HOLE WITH SOIL TO ALLOW VEGETATION TO ESTABLISH.

FOR HOLES 12" DIAMETER AND LARGER, USE GROUT: BACKFILL THE HOLE WITH GROUT USING THE TREMIE METHOD AND A VOLCLAY GROUT WHICH WILL SET TO A CONSISTENCY OF A STIFF SOIL WITH A PERMEABILITY OF 10-7 AND 10-8 CM/SEC.

15. THE APPLICANT SHALL COORDINATE WITH ALL OTHER UTILITIES TO RELOCATE ALL COMMUNICATIONS LINES AND OTHER CABLING OVER TO THE NEW POLE WITHIN 30-DAYS OF IT BEING INSTALLED SO THE OLD POLE CAN BE REMOVED.

CONDUITS

16. ADDITIONAL SUBMITTALS ARE REQUIRED FOR CONDUITS. UNDERGROUND CONDUITS MUST BE INSTALLED IN AN OPEN TRENCH. HORIZONTAL DRILLING IS NOT ALLOWED IN THE LEVEE RIGHT OF WAY.

