| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. ——— |
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| CONST. | 2015 | NH-29(86) | U5-24 |
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MORGAN COUNTY 65001-3268-14

UTILITY RELOCATION NOTES FOR UTILITY RELOCATIONS WITHIN TDOT CONTRACTS REVISION 12-17-2004

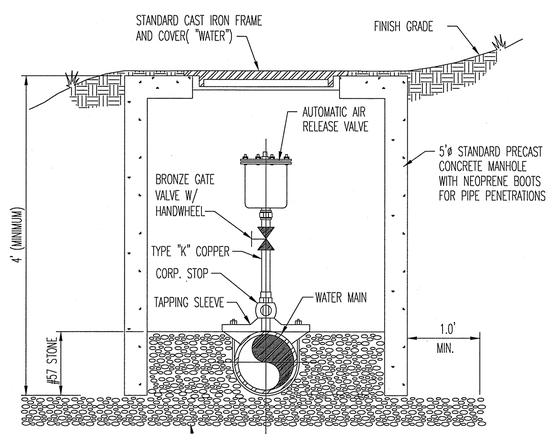
1. RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A TEMPORARY DEWATERING STRUCTURE OR FILTER BAG.
2. SILT FENCE TO BE INSTALLED ON THE DOWNSTREAM SIDE OF ALL STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES TO BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.
3.UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS, AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE UTILITIES IN THIS PROJECT IN REGARDS TO EROSION CONTROL AS WELL AS ALL WATER QUALITY PERMITS RECEIVED. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE WATER QUALITY PERMITS AND THE STORM WATER POLLUTION PREVENTION PLAN. THE UTILITY CONTRACTOR IS ONLY RESPONSIBLE FOR EROSION CONTROL MEASURES FOR UTILITY CONSTRUCTION THAT IS INCLUDED IN THE STATE CONTRACT WORK.
4. IT IS THE RESPONSIBILITY OF THE UTILITY CONTRACTOR TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM HIS OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM HIS WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF HIS WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM HIS OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND BECOMING WATERS OF THE STATE.
5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE BUT NO LATER THAN 7 DAYS AFTER BACKFILLED. ANY TEMPORARY SPOIL PILE OF EXCAVATED EARTH SHALL BE LOCATED WITHIN THE INSTALLED TDOT RIGHT-OF-WAY EROSION CONTROL MEASURES OR RECEIVE SEPARATE EROSION CONTROL MEASURES FROM THE APPROVED TDOT STANDARD DRAWINGS. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EROSION CONTROL MEASURES WILL BE INSTALLED BY THE UTILITY CONTRACTOR UNTIL SUCH TIME THE TRENCH IS BACKFILLED.
6. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCHLINE. IF THIS IS ANTICIPATED ADDITIONAL EROSION CONTROL MEASURES (SUCH AS CHECK DAMS, HAY BALES, EC BLANKETS) SHALL BE INSTALLED FROM THE APPROVED TDOT STANDARD DRAWINGS.
7. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE HIGHWAY RIGHT-OF-WAY, ADDITIONAL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
8. THE CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS REQUIRED BY THE STATE ENGINEER).
9. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION CONTROL MEASURES TO REPLACE IN-PLACE EROSION CONTROL MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT EROSION CONTROL MEASURES WILL BE COORDINATED WITH THE STATE ENGINEER BEFORE COMMENCING WORK.

GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING AROUND EXISTING UDERGROUND UTILITY LINES. DAMAGE TO EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY. REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR.
2. ALL WATER LINES SHALL BE PRESSURE CLASS 350 D.I.P. UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO USE RESTRAINED MECHANICAL JOINT FITTINGS AND MECHANICAL JOINT RESTRAINT. (SEE DETAIL SHEETS FOR REQUIREMENTS).
4. IN AREAS WHERE NO ROAD CONSTRUCTION WILL OCCUR REPLACE CONCRETE AND ASPHALT DRIVEWAYS BY STRAIGHT LINEAR SAW CUT 12 INCHES OUTSIDE THE DISTURBED TRENCH AREA. SHOULD CUTS FALL WITHIN 2 FEET OF AN EXISTING JOINT, REPLACE TO THE EXISTING JOINT.
5. CONTRACTOR TO EXPOSE AND VERIFY ELEVATION OF EXISTING UNDERGROUND UTILITIES AND, PROPOSED LINES TO BE INSTALLED UNDER THE ROADWAY CONTRACT,(WHERE NEW WATER LINE CROSSES) PRIOR TO INSTALLATION OF NEW WATER LINE TO DETERMINE POSSIBLE CONFLICTS AND ALLOW WATER LINE TO BE INSTALLED WITHOUT AIR POCKETS OR TRAPS.
6. LOCATIONS FOR UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR MUST NOTIFY EXISTING UTILITY OWNERS. CALL BEFORE YOU DIG, TENNESSEE ONE CALL 1-800-351-1111.
7. THE CONTRACTOR WILL REPAIR ALL DISTURBED AREAS, INCLUDING R.O.W. DITCHES, TO EQUAL OR BETTER CONDITION THAN ORIGINAL.
8. NEW AIR RELEASE VALVES SHALL BE INSTALLED AT HIGH POINTS IN NEW WATER LINE.
9. IN AREAS WHERE NO ROAD CONSTRUCTION WILL OCCUR CONTRACTOR TO REMOVE EXISTING CULVERTS AND INSTALL NEW COLVERTS UNDER DRIVEWAYS AS REQUIRED FOR NEW WATER LINE INSTALLATION. CULVERT REPLACEMENT AND ASPHALT/CONCRETE PATCHING COST TO BE INCLUDED IN UNIT PRICE OF NEW WATER LINE.
10. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING FENCES AS REQUIRED FOR INSTALLATION OF NEW WATER LINE, AND RE-INSTALLATION OF FENCES TO MATCH OR EXCEED CONDITION OF EXISTING FENCE. THIS COST SHALL BE INCLUDED IN UNIT COST OF THE WATER LINE. PROVIDE TEMPORARY FENCING AS REQUIRED.
11. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF EXISTING MAILBOXES, LANDSCAPING, SIDEWALKS, ETC. AS REQUIRED FOR CONSTRUCTION. ITEMS REMOVED OR DAMAGED ARE TO BE PLACED TO AN EQUAL OR BETTER CONDITION AS THE ORGINAL.
12. EXISTING WATER LINES AND OTHER UTILITIES AS SHOWN ARE FOR REFERENCE ONLY. EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD.
13. CONTACT THE CUMBERLAND UTILITY DISTRICT A MINIMUM OF 7 DAYS PRIOR TO BEGINNING WORK.
14. THESE WATER LINE RELOCATION DRAWINGS ARE PREPARED BASED ON HIGHWAY DESIGN PROVIDED BY TDOT. REVISONS TO THE ROADWAY DESIGN MAY AFFECT THE WATER LINE CONSTRUCTION. ANY REVISIONS TO THE WATER LINE DESIGN MUST BE APPROVED BY THE CUMBERLAND UTILITY DISTRICT AND THE ENGINEER.
15. PROVIDE AS-BUILT DRAWINGS TO THE CUMBERLAND UTILITY DISTRICT AFTER NEW WATER LINE CONSTRUCTION IS COMPLETED.
16. COORDINATE USE OF WATER FOR FILLING AND FLUSHING PURPOSES WITH THE CUMBERLAND UTILITY DISTRICT.
17. BASED ON THE HIGHWAY CONTRATOR'S METHOD OF CONSTRUCTING THE ROADWAY AND RELATED APPURTENANCES, SOME TEMPORARY FACILITIES MAY BE REQUIRED TO MAINTAIN SERVICE.
18. THE FOLLOWING MATERIALS ARE APPROVED FOR TEMPORARY FACILITIES:
    A. 2 INCH TO 6 INCH
        - PVC - SDR17 - CLASS 250 - ASTM D2241
        - HDPE - DR9 - IPS FOR 2 INCH - AWWA C906
        - HDPE - DR9 - DIPS FOR 3 INCH AND 6 INCH - AWWA C906

    PIPE SIZES SHOWN AS 3 INCH AND 6 INCH MUST BE MINIMUM INSIDE DIAMETER TO PROVIDE THE REQUIRED LEVEL OF SERVICE.
    D.I.P. - PRESSURE CLASS 350 - AWWA C151 IS REQUIRED WHERE SHOWN FOR CREEK CROSSINGS. MEG-A-LUG OR APPROVED EQUAL RESTRAINT IS REQUIRED FRO FITTINGS AND "GRIPPER" TYPE GASKETS ARE REQUIRED FOR RESTRAINT OF PIPE JOINTS.

    B. ¾ INCH TO 1 INCH - AWWA C-800
        - COPPER - TYPE K - ASTM B88
        - PE - AWWA C901 - IDR 5.3
19. TEMPORARY METER ASSEMBLIES SHALL INCLUDE METER, METER YOKE, AND METER BOX AND LID.
20. TEMPORARY METER ASSEMBLIES MAY BE RELOCATED TO THEIR PERMANENT LOCATION AFTER THE PERMANENT WATER LINES ARE INSTALLED AND TESTED.
21. PVC VALVE BOXES WITH CAST IRON LID MAY BE UTILIZED FOR TEMPORARY VALVES.




NOTES:
1. AIR RELEASE VALVES TO BE INSTALLED ON HIGH POINTS OF WATER MAINS OR AS SHOWN.

TYPICAL AUTOMATIC AIR RELEASE VALVE ASSEMBLY

GARY STEVENS
REGISTERED ENGINEER
AMERICAN
NO. 19791.29
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TYPICAL DETAILS

N.T.S.

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$$$$$

Survey & Design Division