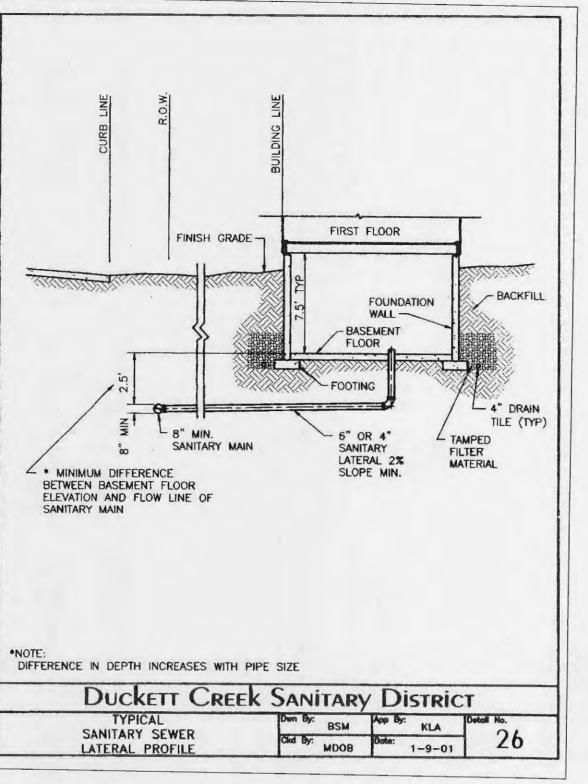
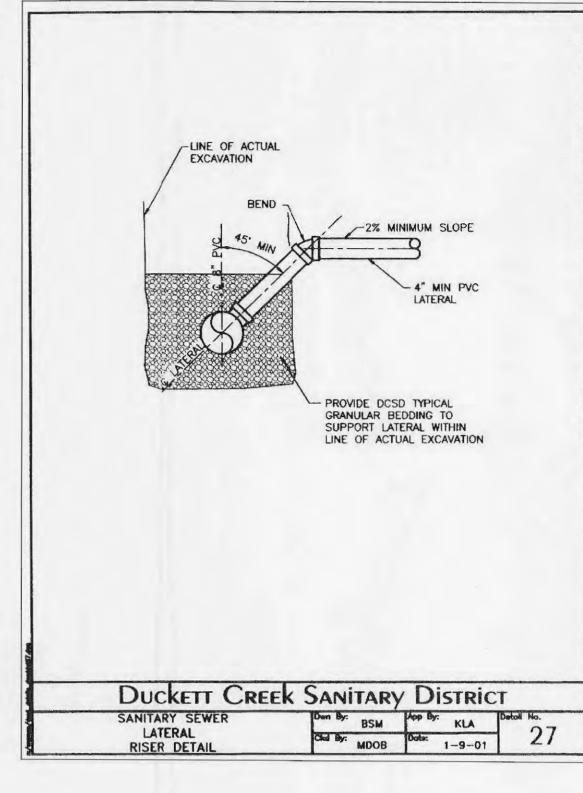
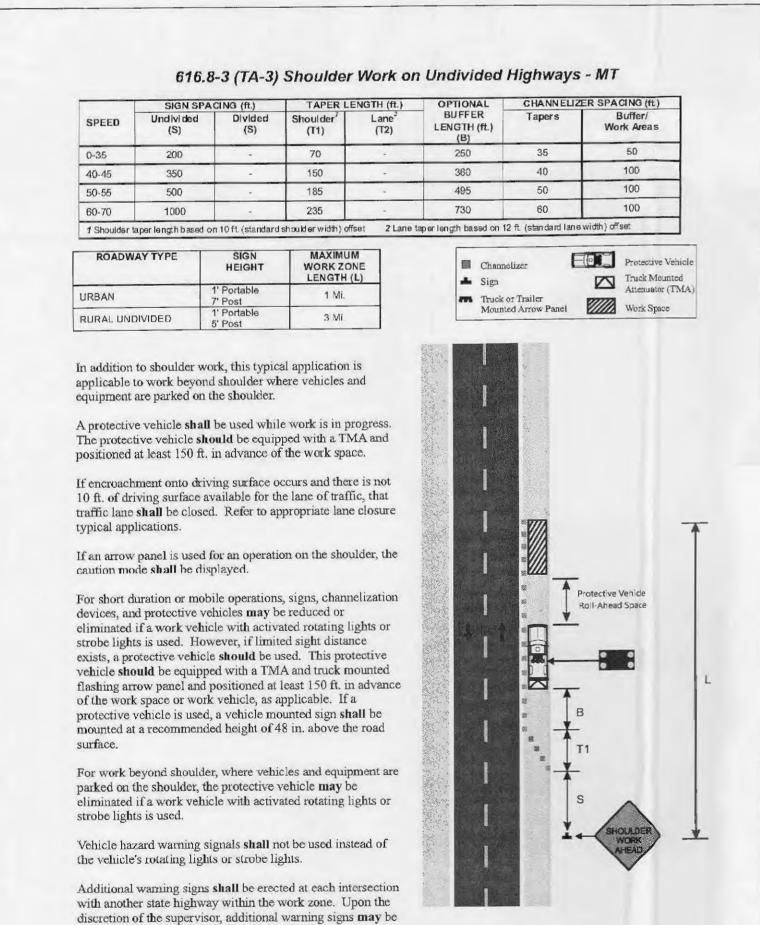


Chaose One





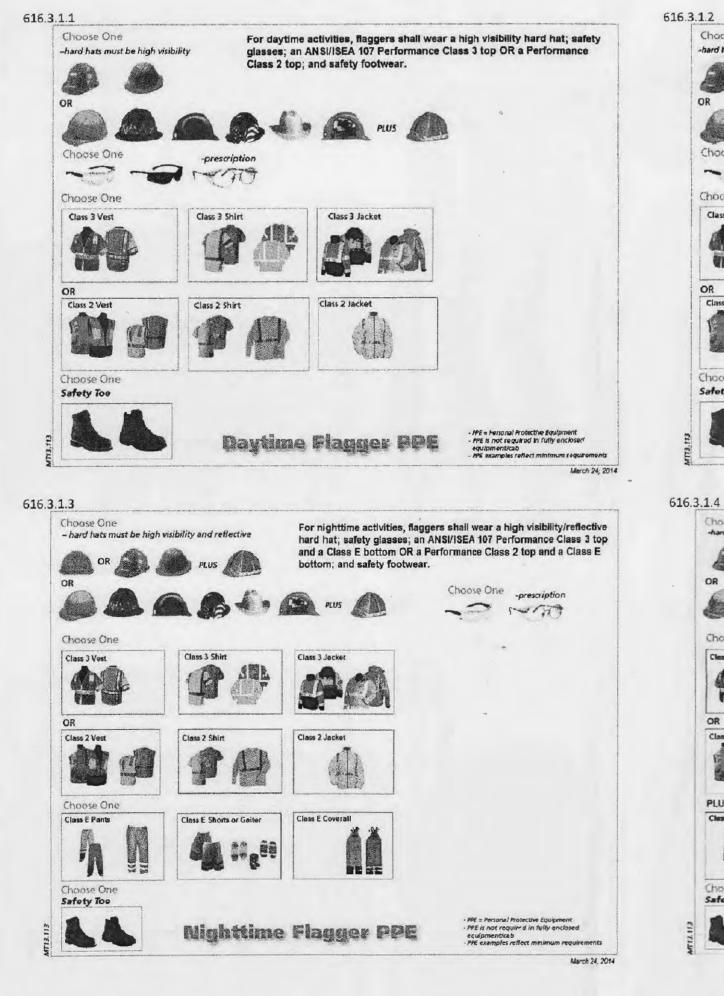


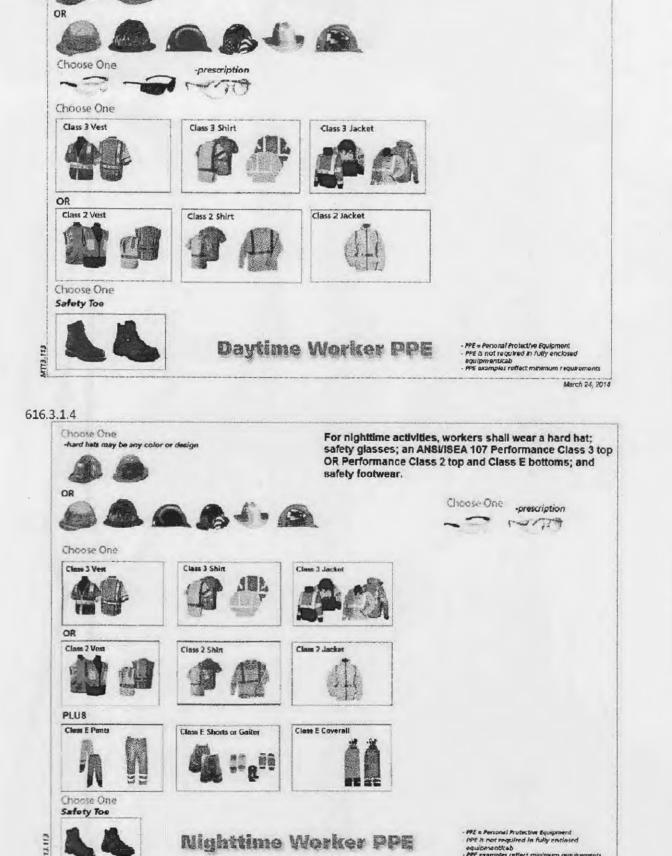
TA-3

01/12

erected at other intersections within the work zone.

Other appropriate signs may be used in lieu of SHOULDER





For daytime activities, workers shall wear a hard hat; safety glasses; an

ANSI/ISEA 107 Performance Class 3 top OR a Performance Class 2 top;

## **DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES**

- 1. Underground utilities have been plotted from available information and therefore location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of
- 2. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed
- sanitary and storm sewers, including house laterals.
- 3. All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match 4. All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within
- and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be non-yielding and nonpumping during proofrolling and compaction.
- 5. The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary
- 6. All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the
- 7. It is the responsibility of the contractor to adjust all sanitary sewer manholes (that are affected by the development) to
- 8. Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- 9. All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett Creek
- 10. The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination of 11. All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the
- 12. All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Dept. of Natural Resources specification 10 CSR-8.120(7)(E).
- 13. All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- 14. All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement
- 15. All pipes shall have positive drainage through manholes. Flat invert structures not allowed.
- 16. Epoxy Coating shall be used on all sanitary sewer manholes that receive pressurized mains.
- 17. All creek crossings shall be lined with rip-rap as directed by District inspectors.
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- 20. Maintain access to existing residential driveways and streets.

diameter of the pipe plus the vertical distance of 21/2 feet.

- 21. Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot / Mission-type couplings will not
- 22. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the
- responsibility of the developer.
- 23. 'Type N' Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.
- 24. All sanitary sewer system work shall be conducted under the inspection of a representative of the District. All work may not require inspection but the District's representative may designate specific areas that must be inspected before the work is backfilled. All testing must be witnessed by the District's Inspector and the Contractor shall furnish all testing equipment as approved by the District. Testing shall include:
  - A mandre test of all gravity sewers using a mandrel with a diameter that has a diameter 95% of the inside pipe diameter. If the mandrel test fails on any section of pipe, that section of pipe shall be uncovered and replaced. No expansion devices will be allowed to be used to "force" the pipe that is deformed back into
  - round. Any string lines used in mandrel testing shall be removed after testing is completed. An air pressure test of all gravity sewers to a pressure of 5 PSI with no observed drop in pressure during a
  - . A vacuum test of all manholes for a period of 1 minute and the vacuum shall be 10" of mercury and may not grop below 9" of mercury at the end of the 1 minute test.
- 25. Contact Steve Overby, DCSD Chief Inspector, at 636-441-1244 to schedule inspection. 48 hours of advanced notice is required.

ENGINEERS SEAL DOES NOT APPLY TO DETAILS ON THIS SHEET.



DISCLAIMER OF RESPONSIBILITY I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural o engineering project or survey.

> REVISIONS 8/18/2015 CITY COMMENTS 8/19/2015 DUCKETT CREEK COM 9/1/2015 | PWSD NO.2 CMTS 10/8/2015 CITY COMMENTS

DVICH BLVD JRI 633

P+Z No. #13-15

City No. #15-599

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