

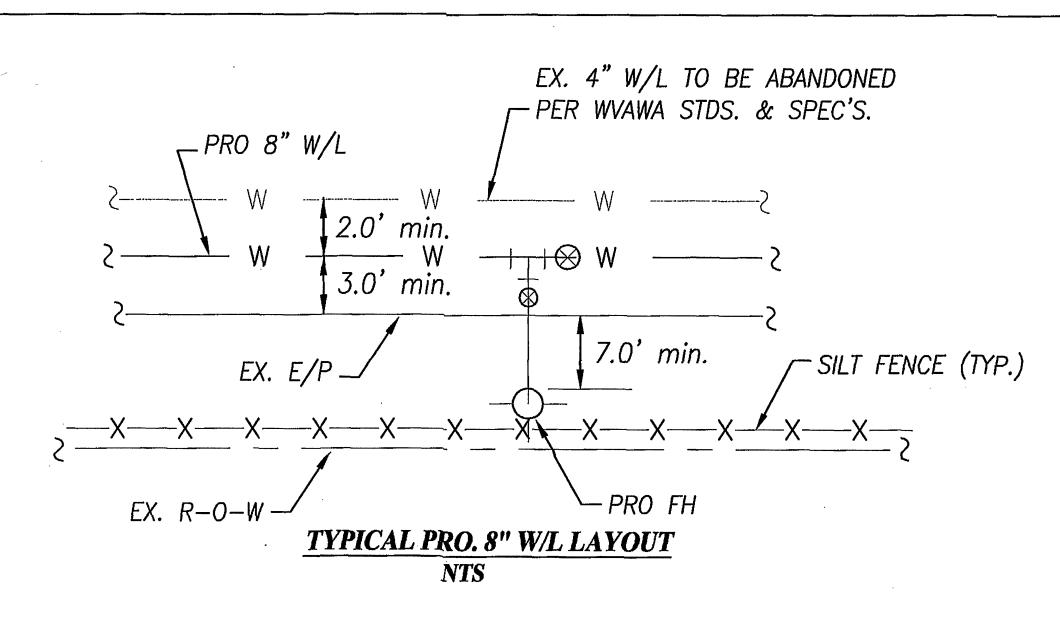
TYPICAL TRAFFIC CONTROL NOT TO SCALE

1) INTENT OF DETAIL IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED DURING CONSTRUCTION, BUT ONLY TO SHOW THE GENERAL

2) TRAFFIC IS TO BE MAINTAINED THROUGHOUT THE PROJECT. TWO-WAY TRAFFIC SHALL BE MAINTAINED BETWEEN THE HOURS OF 7:00AM TO 9:00AM AND 4:00PM TO 6:00PM, WEEKDAYS, AND AT ALL TIMES ON SATURDAYS, SUNDAYS, AND HOLIDAYS, UNLESS OTHERWISE PERMITTED BY VODT. 3) ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES WITHOUT UNDUE DELAYS. 4) ALL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF VDOT STANDARDS AND SPECIFICATIONS, AND THE VIRGINIA WORK AREA

5) TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO MOTORING PUBLIC. THE PLACEMENT AND REMOVAL OF TRAFFIC BARRIER SERVICE AND BARRICADES ARE TO BE COORDINATED WITH VDOT. 6) CONTRACTOR SHALL BEGIN CONSTRUCTION ACTIVITIES SO THAT WORK MAY BEGIN AND END AS QUICKLY AS POSSIBLE. ONCE CONSTRUCTION BEGINS, CONTRACTOR SHALL PROSECUTE WORK CONTINUOUSLY UNTIL NORMAL TRAFFIC PATTERNS MAY BE USED.

7)IDLE CONSTRUCTION EQUIPMENT SHALL NOT IMPACT SIGHT DISTANCES AT INTERSECTIONS OR ENTRANCES. 8) PROVIDE TEMPORARY DITCHES OR PIPES AS NECESSARY TO ACCOMPLISH THE WORK.



PAVEMENT REPLACEMENT AND REQUIRED WIDTH OF PAVEMENT CUTS SHALL BE PER VDOT LUP-SP & LUP -OC

ALL GROUND APPURTENANCES (I.E. FIRE HYDRANTS) SHALL MEET VDOT CLEAR ZONE REQ'MNT.

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**VDOT General Notes** 

V1. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS, THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND ANY OTHER STATE, FEDERAL OR LOCAL REGULATIONS APPLICABLE. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS. SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL BE GOVERN.

V2. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND VOSH RULES AND REGULATIONS.

V3. WHEN WORKING ON VDOT RIGHT-OF-WAY, ALL TRAFFIC CONTROL, WHETHER PERMANENT OR TEMPORARY, SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL FURTHERMORE, ALL TRAFFIC CONTROL FLAGGERS MUST BE CERTIFIED IN ACCORDANCE WITH THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS, SECTION

V4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING, ANY AND ALL UTILITIES, INCLUDING TRAFFIC SIGNAL POLES, JUNCTION BOXES, CONTROLLERS, ETC. OWNED BY VDOT OR PRIVATE UTILITY COMPANY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND IDENTIFY UTILITY FACILITIES OR ITEMS, WHICH MAY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION ACTIVITY. VDOT APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.

V5. DESIGN FEATURES RELATING TO FIELD CONSTRUCTION, REGULATIONS, AND CONTROL OR SAFETY OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY VDOT. ANY ADDITIONAL EXPENSE INCURRED AS A RESULT OF ANY FIELD REVISION WILL BE THE RESPONSIBILITY OF THE

V6. PRIOR TO INITIATION OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY VDOT LAND PERMITS FOR ANY WORK ON VDOT RIGHT-OF-WAY.

V7. IF REQUIRED BY THE LOCAL VDOT RESIDENCY OFFICE, A PRE-CONSTRUCTION CONFERENCE MUST BE ARRANGED AND HELD BY THE ENGINEER AND/OR TOWN OF SHENANDOAH WITH THE ATTENDANCE OF THE CONTRACTOR, VARIOUS COUNTY AGENCIES, UTILITY COMPANIES AND VDOT PRIOR TO INITIATION

V8. THE CONTRACTOR SHALL NOTIFY THE LOCAL VDOT RESIDENCY OFFICE WHEN WORK IS TO BEGIN OR CEASE FOR ANY UNDETERMINED LENGTH OF TIME, VDOT WILL ALSO REQUIRE 48 HOURS NOTICE

V9. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ADEQUATE ACCESS TO THE PROJECT FROM THE ADJACENT PUBLIC ROADWAY THROUGH CONSTRUCTION AND MAINTENANCE OF A CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SECTION 3.02. FURTHERMORE, ACCESS TO OTHER PROPERTIES AFFECTED BY THIS PROJECT SHALL BE MAINTAINED THROUGH CONSTRUCTION. THE DEVELOPER SHALL HAVE, WITHIN THE LIMITS OF THE PROJECT, AN EMPLOYEE CERTIFIED BY THE DEPARTMENT OF CONSERVATION AND RECREATION IN EROSION AND SEDIMENT CONTROL WHO SHALL INSPECT EROSION AND SILTATION CONTROL DEVICES AND MEASURE FOR PROPER INSTALLATION AND DEFICIENCIES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY WHEN NO RAINFALL EVENT OCCURS.

V10. CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE IS ACHIEVED AND MAINTAINED ON THE SITE DURING AND AT THE END OF CONSTRUCTION.

V11. ALL WATER LINES WITHIN EXISTING OR PROPOSED VDOT RIGHT-OF-WAY ARE TO HAVE MINIMUM 36" COVER AND WHEN POSSIBLE SHALL BE INSTALLED UNDER ROADWAY DRAINAGE FACILITIES AT 🚕 CONFLICT POINTS.

V12. ANY UNUSUAL SUBSURFACE CONDITIONS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND VDOT. WORK SHALL CEASE IN THAT VICINITY UNTIL AN ADEQUATE DESIGN CAN BE DETERMINED BY THE ENGINEER AND APPROVED BY VDOT.

V13. ALL FILL AREAS, BORROW MATERIAL AND UNDERCUT AREAS SHALL BE INSPECTED AND APPROVED BY VDOT REPRESENTATIVE PRIOR TO PLACEMENT AND FILL. WHERE CBR TESTING IS REQUIRED, A VDOT REPRESENTATIVE SHALL BE PRESENT TO INSURE THE SAMPLE OBTAINED IS REPRESENTATIVE OF THE LOCATION. WHEN SOIL SAMPLES ARE SUBMITTED TO PRIVATE LABORATORIES FOR TESTING, THE SAMPLES SHALL BE CLEARLY IDENTIFIED AND LABELED AS BELONGING TO A PROJECT, WHICH WILL BE ACCEPTED BY VDOT, AND TESTING SHALL BE CONDUCTED ACCORDING TO ALL APPLICABLE VDOT STANDARDS.

V14. ALL ROADWAY FILL, BASE, SUBSURFACE MATERIAL AND BACKFILL OF UTILITY/STORM SEWER TRENCHES SHALL BE COMPACTED IN 6" LIFTS TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 METHOD A, WITHIN PLUS OR MINUS 2% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED STREET RIGHT-OF-WAY. AT THE DIRECTION OF VDOT INSPECTOR, DENSITY TESTS PERFORMED BY A QUALIFIED INDEPENDENT AGENCY SHALL BE CONDUCTED AS REQUIRED IN THE VDOT ROAD AND BRIDGE SPECIFICATIONS. A COPY OF ALL TESTS SHALL BE SUBMITTED TO VDOT PRIOR TO FINAL VDOT APPROVAL.

V15. VDOT STANDARD CD AND UD UNDER-DRAINS SHALL BE INSTALLED ON THESE PLANS AND FURTHER WHERE DETERMINED BY VDOT INSPECTOR.

V16. THE INSTALLATION OF ANY ENTRANCES AND MAILBOXES WITHIN ANY DEDICATED STREET RIGHT-OF-WAY SHALL MEET VDOT MINIMUM DESIGN STANDARDS AND IS THE RESPONSIBILITY OF THE

V17. PRIOR TO ACCEPTANCE BY VDOT OF ANY STREETS, ANY REQUIRED STREET SIGNAGE AND/OR PAVEMENT MARKINGS MUST BE INSTALLED BY THE CONTRACTOR OR AT VDOT'S DISCRETION, BY VDOT ON AN ACCOUNT RECEIVABLE BASIS. STOP SIGNS SHALL BE THIRTY (30) INCHES TALL WITH HIGH INTENSITY SHEETING THE BOTTOM OF THE SIGN SHALL BE SIX (6) FEET ABOVE THE EDGE OF PAVEMENT AND THE POST SHALL BE INSTALLED A MINIMUM OF FOUR (4) FEET FROM THE EDGE OF PAVEMENT. SIGN POST SHALL BE OF A TYPE FOUND ON VDOT'S APPROVED LIST. A COPY OF THIS LIST MAY BE OBTAINED FROM THE DISTRICT MATERIAL SECTION. CONTACT THE LOCAL VDOT RESIDENCY OFFICE WITH ANY QUESTIONS REGARDING SIGN MATERIAL AND PLACEMENT.

V18. THE CONTRACTOR MUST PROVIDE TO THE LOCAL VDOT OFFICE A LIST OF ALL MATERIAL SOURCES PRIOR TO CONSTRUCTION. COPIES OF ALL INVOICES FOR MATERIALS WITHIN ANY DEDICATED STREET RIGHT-OF-WAY MUST BE PROVIDED TO THE LOCAL VDOT RESIDENCY OFFICE PRIOR TO ACCEPTANCE OF THE WORK. UNIT AND TOTAL PRICES MAY BE OBSCURED.

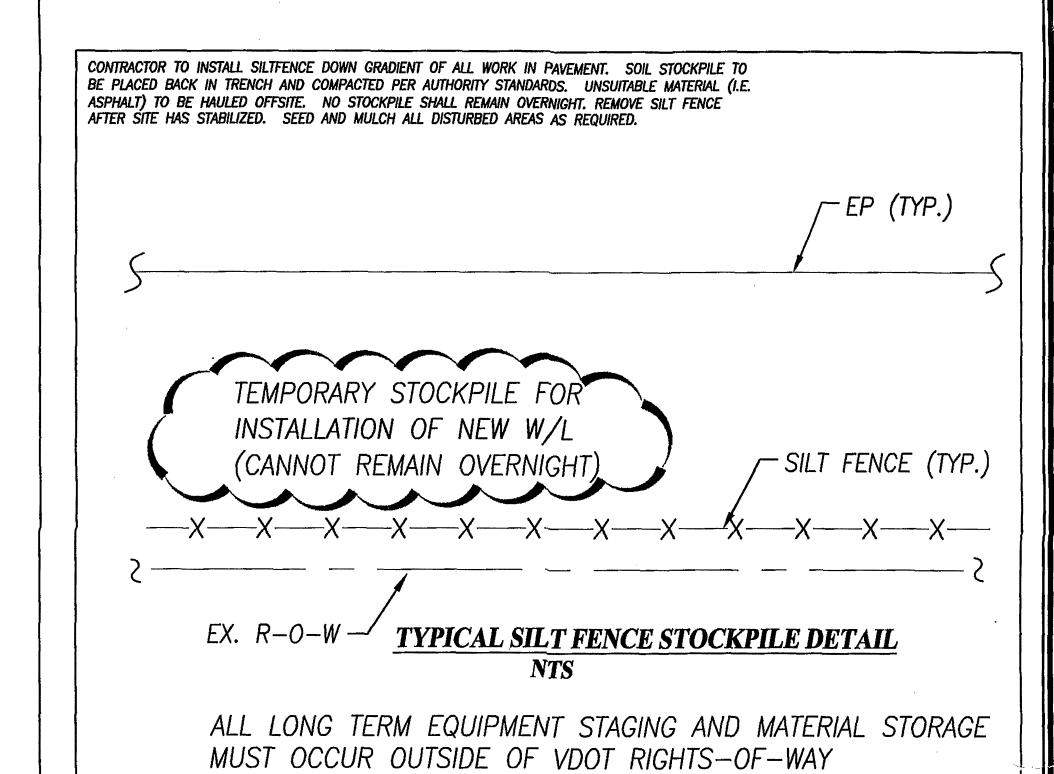
V19. AGGREGATE BASES AND SUB-BASES SHALL BE PLACED ON THE SUB-GRADE BY MEANS OF A MECHANICAL SPREADER. DENSITY WILL BE DETERMINED USING THE DENSITY CONTROL STRIP AS SPECIFIED IN VDOT'S "ROAD AND BRIDGE SPECIFICATIONS" (SECTION 304) AND VTM-10. A CERTIFIED COMPACTION TECHNICIAN SHALL PERFORM THESE TESTS. A CERTIFIED COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENCY OFFICE. IN ADDITION TO CHECKING STONE DEPTHS, A VDOT REPRESENTATIVE SHALL BE NOTIFIED AND GIVEN THE OPPORTUNITY TO BE PRESENT DURING THE CONSTRUCTION AND TESTING OF THE DENSITY CONTROL STRIP.

V20. ASPHALT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF VDOT'S "ROAD AND BRIDGE SPECIFICATIONS" (SECTION 315). DENSITY WILL BE DETERMINED USING THE DENSITY CONTROL STRIP AS SPECIFIED IN SECTION 315 AND VTM-76. A CERTIFIED COMPACTION TECHNICIAN SHALL PERFORM THESE TESTS. A CERTIFIED COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE RESIDENCY OFFICE. A VDOT REPRESENTATIVE SHALL BE NOTIFIED AND GIVEN THE OPPORTUNITY TO BE PRESENT DURING THE CONSTRUCTION AND TESTING OF THE CONTROL STRIP.

V21. APPROVAL OF THESE PLANS SHALL EXPIRE THREE (3) YEARS FROM THE DATE OF THE

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V22. ALL TRENCHING, BACKFILL, AND PAVEMENT REPLACEMENT IN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH VDOT LAND USE PERMIT SPECIAL PROVISIONS AND OPEN CUT PROVISIONS. ALL APPLICABLE DETAILS SHOULD REFER TO THESE PROVISIONS.



## **VDOT NOTES**

1. QUALITY CONTROL - ALL WORK DONE IN THE PROPOSED, OR EXISTING RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO STREET GRADING, STREET PAVING AND ALL CONSTRUCTION OF ALL STRUCTURAL COMPONENTS, SHALL BE DONE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS. ALL MATERIALS USED SHALL BE TESTED IN ACCORDANCE WITH VDOT STANDARD POLICIES. THE DEVELOPER SHALL CONTACT THE OFFICE OF THE RESIDENT ENGINEER, PRIOR TO BEGINNING CONSTRUCTION WITHIN THE PROPOSED OR EXISTING RIGHT OF WAY. AT THAT TIME, THE RESIDENT ENGINEER SHALL PREPARE AN INSPECTION AND TESTING SCHEDULE.

- THE CONTRACTOR WILL PRODUCE TEST REPORTS FROM APPROVED INDEPENDENT LABORATORIES AT THE CONTRACTOR'S EXPENSE.

- THE PAVEMENT DESIGNS SHOWN ARE BASED ON A SUB-GRADE CBR\_VALUE OF 10 OR GREATER. THE SUB-GRADE SOIL IS TO BE TESTED BY AN INDEPENDENT LABORATORY AND THE RESULTS SUBMITTED TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BASE CONSTRUCTION. SHOULD THE SUB-GRADE CBR VALUES BE LESS THAN 10, ADDITIONAL BASE MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH DEPARTMENTAL SPECIFICATIONS. THE SUBGRADE SHALL BE APPROVED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO PLACEMENT OF THE BASE MATERIAL. BASE SHALL BE APPROVED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION FOR DEPTH, TEMPLATE, AND COMPACTION BEFORE SURFACE IS APPLIED.

2. UTILITIES

- ALL NECESSARY LATERALS ALONG WITH PROVISIONS FOR CONDUITS (I.E. WATER, SEWER, STORM, GAS AND TELEPHONE) WILL BE CONSTRUCTED PRIOR TO PAVEMENT BASE MATERIAL.

- GAS OR PETROLEUM TRANSMISSION LINES WILL NOT BE PERMITTED WITHIN THE PAVEMENT OR SHOULDER ELEMENT (BACK CURB TO BACK OF CURB) OF THIS DEVELOPMENT. SERVICE LATERALS CROSSING AND PIPE LINES LOCATED OUTSIDE THE PAVEMENT BY INSIDE THE RIGHT OF WAY WILL BE CONSTRUCTED IN CONFORMITY WITH ASA.B.31.8 SPECIFICATIONS AND SAFETY REGULATIONS. DISTRIBUTION LINES WITH PRESSURES LESS THAN 120 LBS. ARE UNAFFECTED BY THE ABOVE.

- PERMITS WILL BE REQUIRED FOR ALL UTILITIES WITHIN THE STREET RIGHT-OF-WAY PRIOR TO ACCEPTANCE INTO THE SECONDARY HIGHWAY SYSTEM. ANY EASEMENT GRANTED TO A UTILITY COMPANY FOR PLACEMENT OF POWER, TELEPHONE, WATER, SEWER, ETC..., SHALL BE RELEASED PRIOR TO ACCEPTANCE.

3. EROSION CONTROL AND LANDSCAPING - CARE SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT EROSION, DUST, AND MUD FROM DAMAGING ADJACENT PROPERTY, CLOGGING DITCHES, TRACKING PUBLIC STREETS, AND OTHERWISE CREATING A PUBLIC OR PRIVATE NUISANCE TO SURROUNDING AREAS.

- THE ENTIRE CONSTRUCTION AREA INCLUDING DITCHES, CHANNELS, BACK OF CURBS AND/OR PAVEMENT SHALL BE BACKFILLED AND SEEDED AT THE EARLIEST POSSIBLE TIME AFTER FINAL

4. REVISIONS OF SPECIFICATIONS AND STANDARDS

- APPROVAL OF THESE PLANS WILL BE BASED ON SPECIFICATIONS AND STANDARDS IN EFFECT AT THE TIME OF APPROVAL AND WILL BE SUBJECT. UNTIL COMPLETION OF THE ROADWAY AND ACCEPTANCE BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION. TO FUTURE REVISIONS OF THE SPECIFICATIONS AND STANDARDS.

No.	Revision	Ву	Appd.	Date	Drawn JSC	MISCELLANEOUS DETAILS	SCALE NOTED	
<del></del>	·	-			Designed JSC	BRIDLE LANE WATERLINE REPLACEMENT	FEBRUARY 11, 2009	
					Checked		PROJECT: 07053.00	
$\overline{\Lambda}$	VDOT COMMENT LETTER 12/19/200	7 MW	MWL	12/19/07	-Approved MWL	WESTERN VA. WATER AUTHORITY	10	