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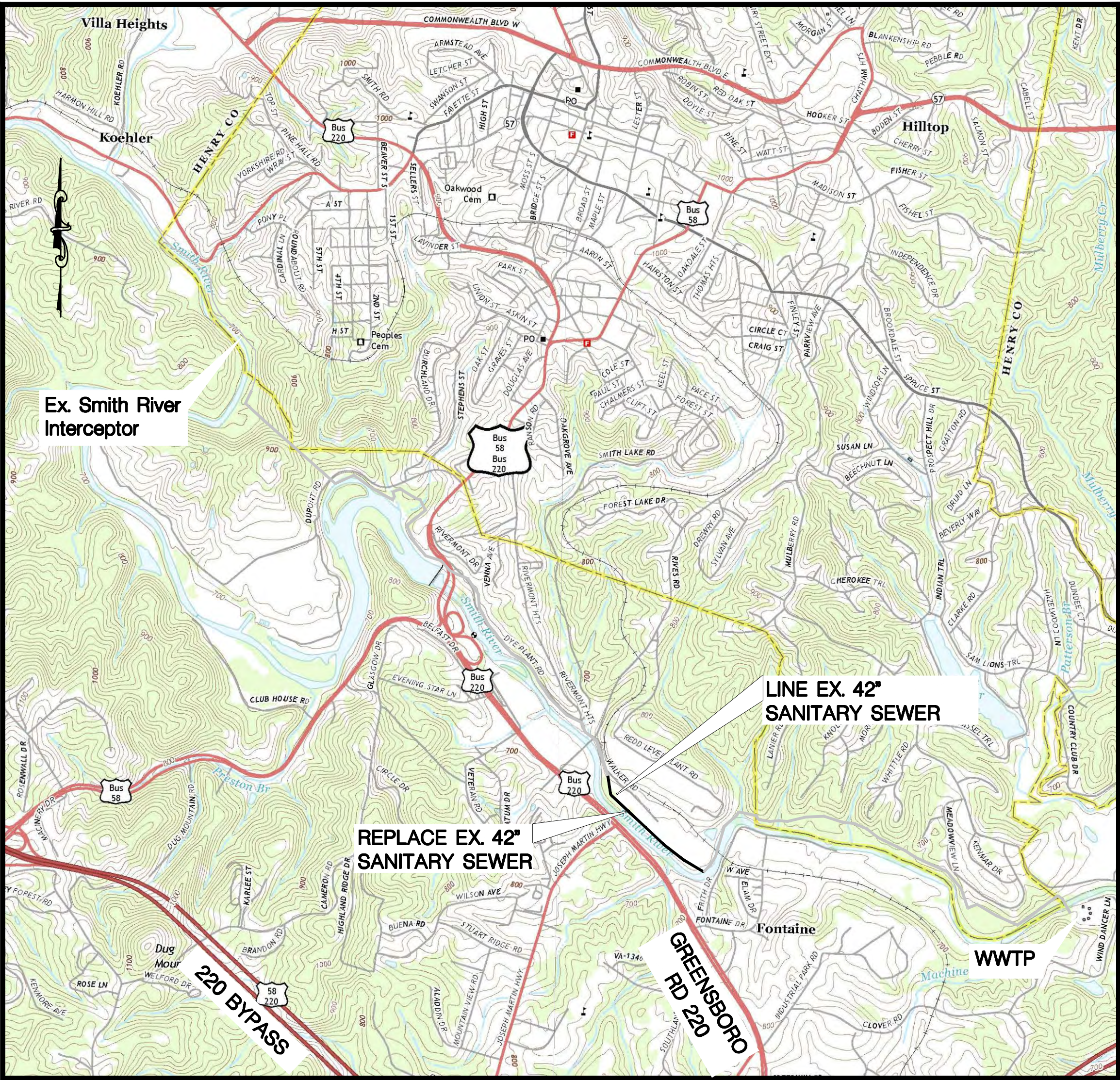
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Smith River Interceptor Walker Road Extension Sewer Repair City of Martinsville, Virginia Contract IV



Vicinity Map

SCALE: N.T.S.

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EDA NO. 01-01-14745

SUBMITTAL	
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<input type="checkbox"/>	REVISION
<input type="checkbox"/>	RECORD
SET NUMBER	



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Smith River Interceptor
Walker Road Exrtension
Sewer Repair
City of Martinsville
Contract IV

SEAL



KEY PLAN

SCALE

AS NOTED

No.	DATE	BY	Description
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REVISIONS

DRAWN BY MWC

APPROVED BY RSE

CHECKED BY ATA

DATE May, 2017

TITLE

COVER SHEET

PROJECT NO. 50078733

T1

SHEET NO. OF

A

1. ALL WORK SHALL BE COORDINATED WITH THE CITY OF MARTINSVILLE WATER AND SEWER DEPARTMENT.
2. CONTRACTOR SHALL NOTIFY THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO ANY CONSTRUCTION ON STREET RIGHT-OF-WAYS (PHONE NO. 276-627-1509).
3. ANY CONSTRUCTION WITHIN THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH THE VDOT 2016 ROAD AND BRIDGE SPECIFICATIONS AND THE 2016 VDOT ROAD AND BRIDGE STANDARDS REGARDING MATERIALS, INSTALLATION, AND TESTING, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS AND TECHNICAL SPECIFICATIONS. DECEPT THE METHOD OF PAYMENTS WHICH WILL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS. ANY CONSTRUCTION WITHIN THE VDOT RIGHTS-OF-WAYS AND AT ENTRANCES TO VDOT RIGHT-OF-WAYS ARE TO BE SIGNED IN ACCORDANCE WITH THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL STANDARDS, REV.1.
4. CONTRACTOR SHALL FIELD VERIFY VERTICAL AND HORIZONTAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL CONTACT MISS UTILITY (811) 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
5. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO VERIFY LOCATION OF AND PREVENT DISTURBANCE OF ANY EXISTING UTILITIES IN WORK AREA, AND PROVIDE IMMEDIATE TEMPORARY SERVICE TO ANY DAMAGED UTILITIES.
6. WHEN WORKING ADJACENT TO EXISTING STRUCTURES, POLES, ETC., CONTRACTOR SHALL USE WHATEVER METHODS NECESSARY TO PROTECT STRUCTURES FROM DAMAGE. REPLACEMENT OF DAMAGED STRUCTURES SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. DRIVEWAYS, FENCES, MAILBOXES, ROAD SIGNS, STEPS, SIDEWALKS, ETC., THAT INTERFERE WITH CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL CONDITION.
8. PAVED DRIVEWAYS, PARKING LOTS, AND PRIVATE ROADS SHALL BE OPEN-CUT UNLESS SHOWN OTHERWISE. ALL DISTURBED CONCRETE, PAVEMENT, AND GRAVEL DRIVES ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER
9. ALL AREAS WITHIN VDOT'S RIGHT-OF-WAYS THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED PRIOR TO FINAL ACCEPTANCE IN ACCORDANCE WITH SECTION 107.08 OF THE 2016 VDOT ROAD AND BRIDGE SPECIFICATIONS AND THE LAND USE PERMIT SPECIAL PROVISIONS (LUP-SP). RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING SHRUBBERY, SOD OR TOPSOIL WITH SEED, LIME, FERTILIZER, AND MULCH; REPLACING PAVED OR FINISHED SURFACES WITH SIMILAR MATERIALS, AND REPLACING AND/OR RESTORING DAMAGED DRAINAGE STRUCTURES. SOIL STABILIZATION BLANKETS SHALL BE INSTALLED ON ALL SLOPES BEING REPLACED THAT ARE GREATER THAN 3:1 WITHIN VDOT RIGHT-OF-WAY.
10. CONTRACTOR SHALL NOT DISTURB ANY TREES, SHRUBS, OR LANDSCAPING OUTSIDE THE CONSTRUCTION LIMITS. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DITCHING THE TREES AND SHRUBS WITHIN THE CONSTRUCTION LIMITS AND NOTED TO REMAIN. "ANY TREE THAT IS DESIRED TO REMAIN ON VDOT'S RIGHT-OF-WAY REQUIRES APPROVAL FROM THE DISTRICT ARBORIST. TREES DESIRED TO BE CUT NEEDS TO BE FLAGGED PRIOR TO OBTAINING VDOT APPROVAL. CLEARING AND GRUBBING SHALL BE CONFINED TO THOSE AREAS APPROVED FOR CONSTRUCTION. NO TREES OR SHRUBS IN UNGRADED AREAS SHALL BE CUT WITHOUT THE PERMISSION OF THE VDOT."
11. EROSION AND SEDIMENT CONTROL NOTES:
 - A. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE VIRGINIA EROSION AND CONTROL HANDBOOK AND THE 2016 VDOT ROAD AND BRIDGE SPECIFICATIONS.
 - B. CONTRACTOR SHALL INSTALL EROSION BARRIERS, INLET PROTECTION, CONSTRUCTION ENTRANCES AT POINTS OF INGRESS AND EGRESS TO PUBLIC RIGHT-OF-WAY, STABILIZE DISTURBED AREAS, AND PROVIDE OTHER MEASURES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED.
 - C. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT TRACKING ON EXISTING PAVEMENTS.
 - D. CONTRACTOR SHALL INSTALL GRAVEL CONSTRUCTION ROAD STABILIZATION OF ADEQUATE AREA TO ACCOMMODATE CONSTRUCTION VEHICLE PARKING, MATERIAL STORAGE, AND STORAGE OF MATERIALS. AT A LOCATION CONVENIENT TO THE INDIVIDUAL CONSTRUCTION AREAS AND CONSISTENT WITH THE CONSTRUCTION SEQUENCES.
 - E. THE LOCATIONS OF SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON PLANS ARE APPROXIMATE, THE EXACT LOCATION MUST BE DETERMINED IN THE FIELD.
 - F. A ROCK CHECK DAM SHALL BE INSTALLED BELOW THE DISTURBED AREA WITHIN DITCH LINES AND/OR WHERE DITCH LINES OUTLET TO UNDISTURBED AREAS.
 - G. SILT FENCE SHALL BE PROVIDED BELOW DISTURBED AREAS FOR ALL LOCATIONS WHERE DISTURBED AREA DRAINS TOWARD PROPERTY OWNER BY OTHERS AND/OR TO ROAD AND STABILIZATION OF EXISTING DRAINAGE PIPES BECOME SITED AS A RESULT OF CONSTRUCTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN THE PIPES TO THE SATISFACTION OF VDOT. IN ADDITION, ANY DITCHES DISTURBED IN VDOT'S RIGHT-OF-WAY SHALL BE CLEANED/RESTORED.
 - H. IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATION §107.16 (A), LAND DISTURBING ACTIVITY WHICH OCCURS WITHIN THE VDOT RIGHT-OF-WAY MUST BE SUPERVISED BY A CERTIFIED EROSION AND SEDIMENT CONTROL (ESC) CONTRACTOR WHO IS REQUIRED TO BE ON-SITE AT ALL TIMES DURING THAT LAND-DISTURBING ACTIVITY. IF EROSION OR SCOUR OCCURS, THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTION MEASURES.
12. ALL DISTURBED AREAS ARE TO BE MULCHED AND SEEDED PER THE SPECIFICATIONS WITHIN 7 DAYS OF ACHIEVING FINAL GRADES.
13. IF CONSTRUCTION SCHEDULE DOES NOT ALLOW PERMANENT SEEDING IN THE DATES SHOWN IN THE SPECIFICATIONS OR IF CONSTRUCTION IS TEMPORARILY HALTED FOR A PERIOD OF 21 DAYS OR LONGER DUE TO WEATHER, WINTER SHUT DOWN, ETC. CONTRACTOR SHALL INSTALL TEMPORARY SEEDING WITHIN 7 DAYS. WHEN PERMANENT SEEDING DATES CAN BE ACCOMMODATED, THE CONTRACTOR SHALL RESEED WITH PERMANENT SEEDING MIXTURES. ALL SEEDED AREAS, WHICH DO NOT PRODUCE A THICK, HEALTHY, DESIRABLE VEGETATIVE COVER, ARE TO BE RESEED AND MULCHED AS NECESSARY UNTIL ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. PRIOR TO RESEEDING WITH PERMANENT VEGETATION, ALL ESTABLISHED TEMPORARY VEGETATION IS TO BE REMOVED.
14. TOPSOIL IS TO BE STOCKPILED AND RE-SPREAD OVER DISTURBED AREAS TO BE SEEDED PER THE TECHNICAL SPECIFICATIONS. STOCKPILES SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SEDIMENT AND EROSION CONTROLS DEVICES/MEASURES SHALL BE INSTALLED AS NECESSARY. THESE STOCKPILES ARE TO BE LOCATED IN AREAS THAT MINIMIZE DISTURBANCE TO CONSTRUCTION OPERATIONS.
15. WHEN CONSTRUCTION DISTURBS EXISTING DITCHLINES, THE RESTORED DITCHLINES SHALL BE STABILIZED WITH EXCELSIOR MAT FOR EROSION CONTROL.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR.
17. VERTICAL CONTROL FOR THIS PROJECT IS REFERENCED TO VIRGINIA STATE PLANE GRID COORDINATES (SOUTH ZONE) US SURVEY FEET.
HORIZONTAL: NAVD83 (CORS) BLVK, DOBS, ASUB
VERTICAL: NAVD88
AVERAGE COMBINED FACTOR: GROUND TO GRID 0.999987
18. CONSTRUCTION WITHIN VDOT'S RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REV. 1, AND TO THE APPROVED TRANSPORTATION MANAGEMENT PLAN (TMP). ANY PROPOSED DEVIATION FROM THE APPROVED PLAN SHALL BE APPROVED BY VDOT. CONTROL OF TRAFFIC ELEMENTS RELATING TO ROAD REGULATIONS & CONSTRUCTION MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY VDOT.
19. LAND DISTURBANCE ACTIVITIES AND RELATED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF MARTINSVILLE PUBLIC SERVICE AUTHORITY'S STANDARD SPECIFICATION UNLESS, A MORE STRINGENT REQUIREMENT IS SHOWN ON PLANS OR LISTED IN PROJECT SPECIFICATIONS.
20. "ALL CONTRACTORS PERFORMING CONSTRUCTION ACTIVITIES UNDER THE AUSPICES OF A VDOT LAND USE PERMIT MUST HAVE AT LEAST ONE (1) EMPLOYEE ON-SITE WHO, AT A MINIMUM, IS VERIFIED BY VDOT AS BASIC WORK ZONE TRAFFIC CONTROL FOR ACTIVITIES INVOLVING THE INSTALLATION, MAINTENANCE, AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES. AN EMPLOYEE VERIFIED BY VDOT IN INTERMEDIATE OR ADVANCED WORK ZONE TRAFFIC CONTROL MUST BE ON-SITE TO PROVIDE SUPERVISION DURING WORKZONE ADJUSTMENTS OR CHANGES TO TRAFFIC CONTROL DUE TO FIELD CONDITIONS. THESE PERSONS MUST HAVE THEIR CERTIFICATION CARD WITH THEM WHILE ON THE PROJECT SITE."
21. A LAND USE PERMIT (LUP) SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT OF WAY. THE LUP MAY BE OBTAINED FROM THE LOCAL VDOT LAND USE OFFICE LOCATED AT 309 WEEPING WILLOW LANE, BASSETT, VIRGINIA (CONTACT JIM KEENE AT 276-627-1509). VDOT SHALL BE INVITED TO THE PRECONSTRUCTION MEETING.
22. ALL UTILITY LINES SHALL HAVE A MINIMUM OF THREE (3) FEET OF COVER AND BE INSTALLED NOT LESS THAN 3' FROM ANY EXISTING/PROPOSED GUARDRAIL POSTS. ALL UTILITY LINES & APPURTENANCES SHALL BE INSTALLED 5' OR GREATER OFF THE EDGE OF PAVEMENT. DO NOT INSTALL UTILITY APPURTENANCES IN DITCH LINES. IN CASES WHERE THERE ARE LESS THAN 5 FEET BETWEEN THE EDGE OF PAVEMENT AND GUARDRAIL POSTS AND THE UTILITY CANNOT BE INSTALLED BEYOND THE GUARDRAIL, INSTALL UTILITY HALF-WAY BETWEEN THE TWO ITEMS, BUT NO CLOSER THAN TWO FEET TO THE POSTS (OUTSIDE DIMENSION OF THE UTILITY TO POSTS).
23. VDOT APPROVAL OF THESE PLANS EXPIRES THREE YEARS FROM DATE OF APPROVAL, IF A LAND USE PERMIT HAS NOT BEEN ISSUED."

RAD	RADIUS REFERENCE	RS	RAW SEWAGE	SSC	SECONDARY SCUM	TEL	TELEPHONE	UG	UNDERGROUND
RAS	RETURN ACTIVATED SLUDGE	SE	SECONDARY EFFLUENT	SCH	SCHEDULE	TEMP	TEMPORARY OR TEMPERATURE	UL	UNDERWRITER'S LABORATORY
RCP	REINFORCED CONCRETE PIPE	SM	SIMILAR	SECT	SECTION	THK	THICK	VERT	VERTICAL
RD	ROAD, ROOF DRAIN	SPEC	SPECIFICATION	SHT	SHEET	T & B	TOP AND BOTTOM	VC	VERTICAL CURVE
REQ'D	REQUIRED REV REVISED	SR	STATE ROUTE OR SECONDARY ROAD	SHT	SHEET	T & B	TOP AND BOTTOM	VDOT	VIRGINIA DEPT OF TRANSPORTATION
RT	RIGHT	STD	STANDARD	STM	STORM	TOW	TOP OF BANK	W/	WITH
R/W, ROW	RIGHT OF WAY	STA	STATION	ST	STREET	TOW	TOP OF WALL	WAS	WASTE ACTIVATED SLUDGE
R	RISER	STL	STEEL	STY	STORY	TDC	TURNED DOWN CURB	WL	WATER MAIN
		SS	SANITARY SEWER	TD	TANK DRAIN	TYP	TYPICAL		
			STAINLESS STEEL						

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E. THE LOCATIONS OF SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON PLANS ARE APPROXIMATE, THE EXACT LOCATION MUST BE DETERMINED IN THE FIELD.
F. A ROCK CHECK DAM SHALL BE INSTALLED BELOW THE DISTURBED AREA WITHIN DITCH LINES AND/OR WHERE DITCH LINES OUTLET TO UNDISTURBED AREAS.
G. SUBDRAINAGE SHALL BE PROVIDED BELOW DISTURBED AREAS FOR ALL LOCATIONS WHERE DISTURBED AREA DRAINS TOWARD PROPERTY OWNED BY OTHERS AND/OR TOWARD STREAMS. SHOULD EXISTING DRAINAGE PIPES BECOME SILENT AS A RESULT OF CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN THE PIPES TO THE SATISFACTION OF VDOT. IN ADDITION, ANY DITCHES DISTURBED IN VDOT'S RIGHT-OF-WAY SHALL BE CLEANED/RESTORED.
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12. ALL DISTURBED AREAS ARE TO BE MULCHED AND SEEDED PER THE SPECIFICATIONS WITHIN 7 DAYS OF ACHIEVING FINAL GRADES.

13. IF CONSTRUCTION SCHEDULE DOES NOT ALLOW PERMANENT SEEDING IN THE DATES SHOWN IN THE SPECIFICATIONS OR IF CONSTRUCTION IS TEMPORARILY HALTED FOR A PERIOD OF 21 DAYS OR LONGER DUE TO WEATHER, WINTER SHUT DOWN, ETC. CONTRACTOR SHALL INSTALL TEMPORARY SEEDING WITHIN 7 DAYS, WHEN PERMANENT SEEDING DATES CAN BE ACCOMMODATED, THE CONTRACTOR SHALL RESEED WITH PERMANENT SEEDING MIXTURES. ALL SEEDED AREAS, WHICH DO NOT PRODUCE A THICK, HEALTHY, DESIRABLE VEGETATIVE COVER, ARE TO BE RESEED AND MULCHED AS NECESSARY UNTIL ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. PRIOR TO RESEEDING WITH PERMANENT VEGETATION, ALL ESTABLISHED TEMPORARY VEGETATION IS TO BE REMOVED.

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16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR.

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HORIZONTAL: NAD83 (CORS) BLVK, DOBS, ASUB
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18. CONSTRUCTION WITHIN VDOT'S RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REV. 1, AND TO THE APPROVED TRANSPORTATION MANAGEMENT PLAN (TMP). ANY PROPOSED DEVIATION FROM THE APPROVED PLAN SHALL BE APPROVED BY VDOT. CONTROL OF TRAFFIC ELEMENTS RELATING TO ROAD REGULATIONS & CONSTRUCTION MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY VDOT.

19. LAND DISTURBANCE ACTIVITIES AND RELATED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF MARTINSVILLE PUBLIC SERVICE AUTHORITY'S STANDARD SPECIFICATION UNLESS, A MORE STRINGENT REQUIREMENT IS SHOWN ON PLANS OR LISTED IN PROJECT SPECIFICATIONS.

20. "ALL CONTRACTORS PERFORMING CONSTRUCTION ACTIVITIES UNDER THE AUSPICES OF A VDOT LAND USE PERMIT MUST HAVE AT LEAST ONE (1) EMPLOYEE ON-SITE WHO, AT A MINIMUM, IS VERIFIED BY VDOT IN BASIC WORK ZONE TRAFFIC CONTROL FOR ACTIVITIES INVOLVING THE INSTALLATION, MAINTENANCE, AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES. AN EMPLOYEE VERIFIED BY VDOT IN INTERMEDIATE OR ADVANCED WORK ZONE TRAFFIC CONTROL MUST BE ON-SITE TO PROVIDE SUPERVISION DURING WORK ZONE ADJUSTMENTS OR CHANGES TO TRAFFIC CONTROL DUE TO FIELD CONDITIONS. THESE PERSONS MUST HAVE THEIR CERTIFICATION CARD WITH THEM WHILE ON THE PROJECT SITE."

21. A LAND USE PERMIT (LUP) SHALL BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT-OF-WAY. THE LUP MAY BE OBTAINED FROM THE VDOT DISTRICT OFFICE LOCATED AT 309 WEEPING WILLOW LANE, BASSETT, VIRGINIA (CONTACT JIM KEENE AT 276-627-1509). VDOT SHALL BE INVITED TO THE PRECONSTRUCTION MEETING.

22. ALL UTILITY LINES SHALL HAVE A MINIMUM OF THREE (3) FEET OF COVER AND BE INSTALLED NOT LESS THAN 3' FROM ANY EXISTING/PROPOSED GUARDRAIL POSTS. ALL UTILITY LINES & APPURTENANCES SHALL BE INSTALLED 5' OR GREATER OFF THE EDGE OF PAVEMENT. DO NOT INSTALL UTILITY APPURTENANCES IN DITCH LINES. IN CASES WHERE THE FIRE LANS LESS THAN 5 FEET BETWEEN THE EDGE OF PAVEMENT AND GUARDRAIL POSTS AND THE UTILITY CANNOT BE INSTALLED BEYOND THE GUARDRAIL, INSTALL UTILITY HALF-WAY BETWEEN THE TWO ITEMS, BUT NO CLOSER THAN TWO FEET TO THE POSTS (OUTSIDE DIMENSION OF THE UTILITY TO POSTS).

23. VDOT APPROVAL OF THESE PLANS EXPIRES THREE YEARS FROM DATE OF APPROVAL, IF A LAND USE PERMIT HAS NOT BEEN ISSUED."

24. FINAL RM ELEVATIONS IN VDOT'S R/W SHALL NOT BE GREATER THAN THE FINISH GRADE. ALL AREAS WITHIN VDOT'S R/W WITH SLOPES OF 3:1 OR GENTLER SHALL BE CONSIDERED TRAFFIC BEARING AREAS, AND ANY UTILITY VAULTS/MANHOLES SHALL BE INSTALLED WITH TRAFFIC BEARING COVERS."

25. "ANY EDGE LINE OR CENTERLINE MARKINGS DESTROYED SHALL BE REPLACED ACCORDING TO THE CURRENT VDOT REQUIREMENTS.

26. "REPLACE ANY DISTURBED RIGHT OF WAY MONUMENTS IN ACCORDANCE TO 2016 ROAD AND BRIDGE STANDARDS RM-2."

27. PROPOSED TEMPORARY ENTRANCES, FROM VDOT MAINTAINED ROADWAYS TO ACCESS WORKSITE, MATERIAL/EQUIPMENT STORAGE AREAS, OR DISPOSAL SITES, SHALL BE APPROVED BY VDOT PRIOR TO WORK BEING STARTED. ALL TEMPORARY ENTRANCES APPROVED SHALL BE REMOVED AND RESTORED TO ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE.

28. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH SEQUENCE OF CONSTRUCTION AND WORK RESTRICTIONS DESCRIBED IN SPECIFICATION SECTION 011000.

29. THE LIMITS OF DISTURBANCE IS LOCATED WITHIN THE EXISTING 20' PERMANENT AND 40' TEMPORARY UTILITY CONSTRUCTION EASEMENT, REFERENCE DRAWINGS FOR LIMITS.

30. CONTRACTOR SHALL REMOVE TREES AND UNDERGROWTH WITHIN THE PROPOSED 20' PERMANENT EASEMENT.

31. INSTALLATION OF NEW SEWER SHALL REQUIRE BYPASS PUMPING AND SHALL BE COORDINATED WITH THE WASTEWATER PLANT AND OWNER IN ACCORDANCE TO SPECIFICATION 333325.

32. INSTALL BLANKET MATTING ON ALL DISTURBED DITCHLINES STEEPER THAN 2.00% SLOPE. ALL DISTURBED AREAS ARE TO BE MULCHED AND SEEDED PER THE SPECIFICATIONS WITHIN 7 DAYS OF ACHIEVING FINAL GRADES.

33. REFRAIN FROM DISTURBING ALL WETLANDS AND STREAMS UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. IF CONTRACTOR DOES DISTURB WETLANDS, THEY MUST BE RESTORED TO ORIGINAL CONTOUR, AND ALL EXCESS EXCAVATED MATERIAL MUST BE COMPLETELY REMOVED FROM THE WETLANDS. (REF. NATIONWIDE 12 PERMIT FOR ALL REGULATIONS REGARDING WETLANDS FOR THIS PROJECT.)

34. ALL UTILITIES MAY NOT BE SHOWN AND ARE SHOWN GRAPHICALLY ONLY. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY 811 AND FIELD VERIFYING LOCATION VERTICALLY AND HORIZONTALLY. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY AND PERMANENT REPAIRS TO ANY UTILITY DAMAGED DURING CONSTRUCTION.

35. PROVIDE ALL TEMPORARY PROTECTIONS TO PREVENT SEWERLINE DAMAGE AND ACCESS DURING CONSTRUCTION AS DESCRIBED IN SPECIFICATION SECTION 333300. 14. ALL WORK PERFORMED IN THE NORFOLK SOUTHERN RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE ISSUED PERMIT. SPECIFICATION SECTION 003135 AND THE WORK RESTRICTIONS IN SECTION 011000.



No.	DATE	BY	Description

No.	DATE	BY	Description
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REVISIONS

DRAWN BY	MWC
APPROVED BY	RSE
CHECKED BY	ATA
DATE	May, 2017

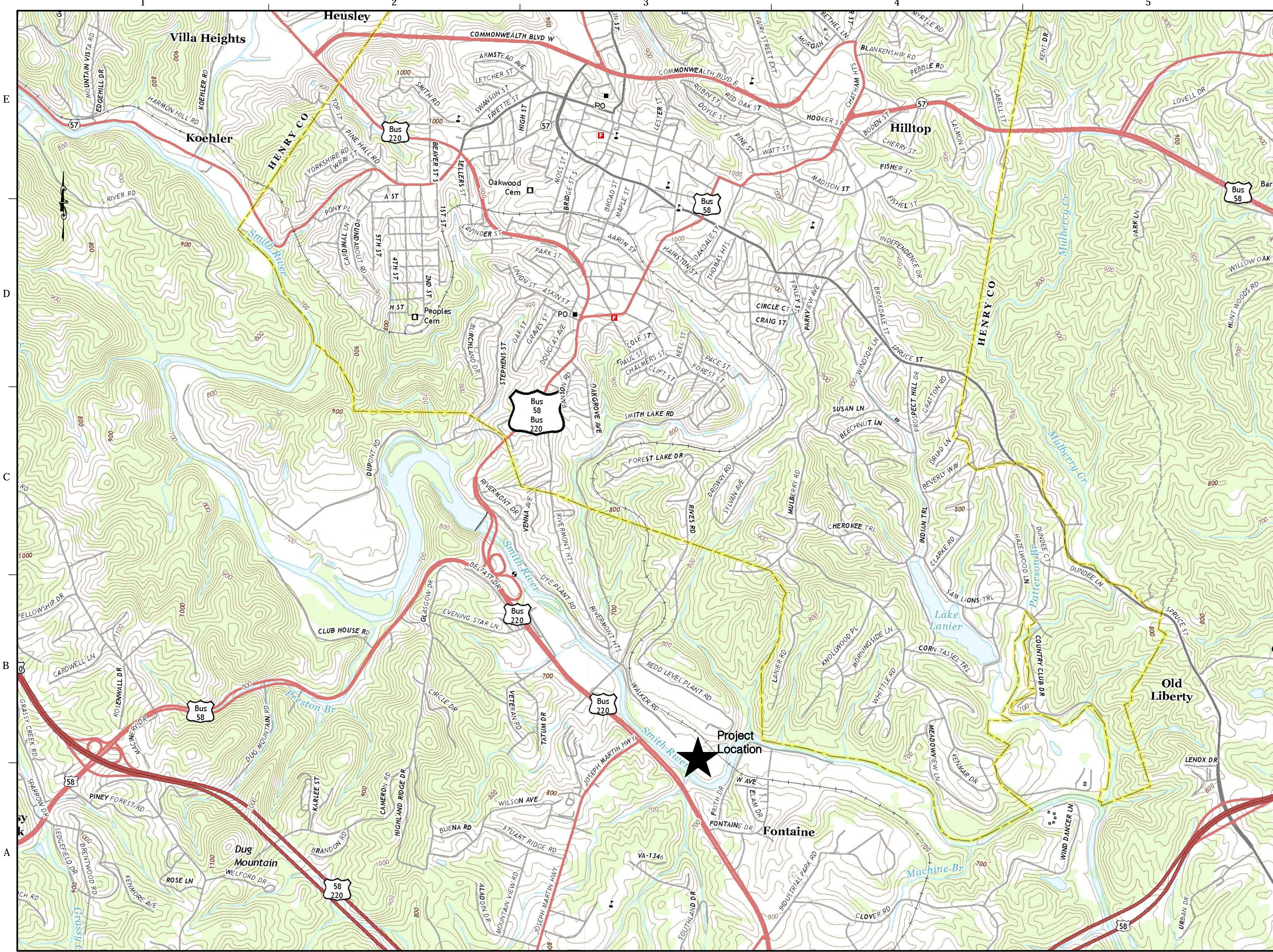
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Legend Abbreviations and General Notes

PROJECT NO. 50078733

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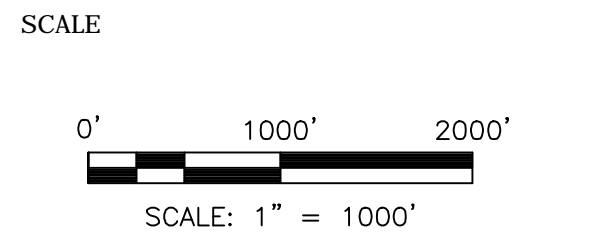


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Smith River Interceptor
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Sewer Repair
City of Martinsville
Contract IV



KEY PLAN



No.	DATE	BY	Description
REVISIONS			

USGS Vicinity map

PROJECT NO. 50078733

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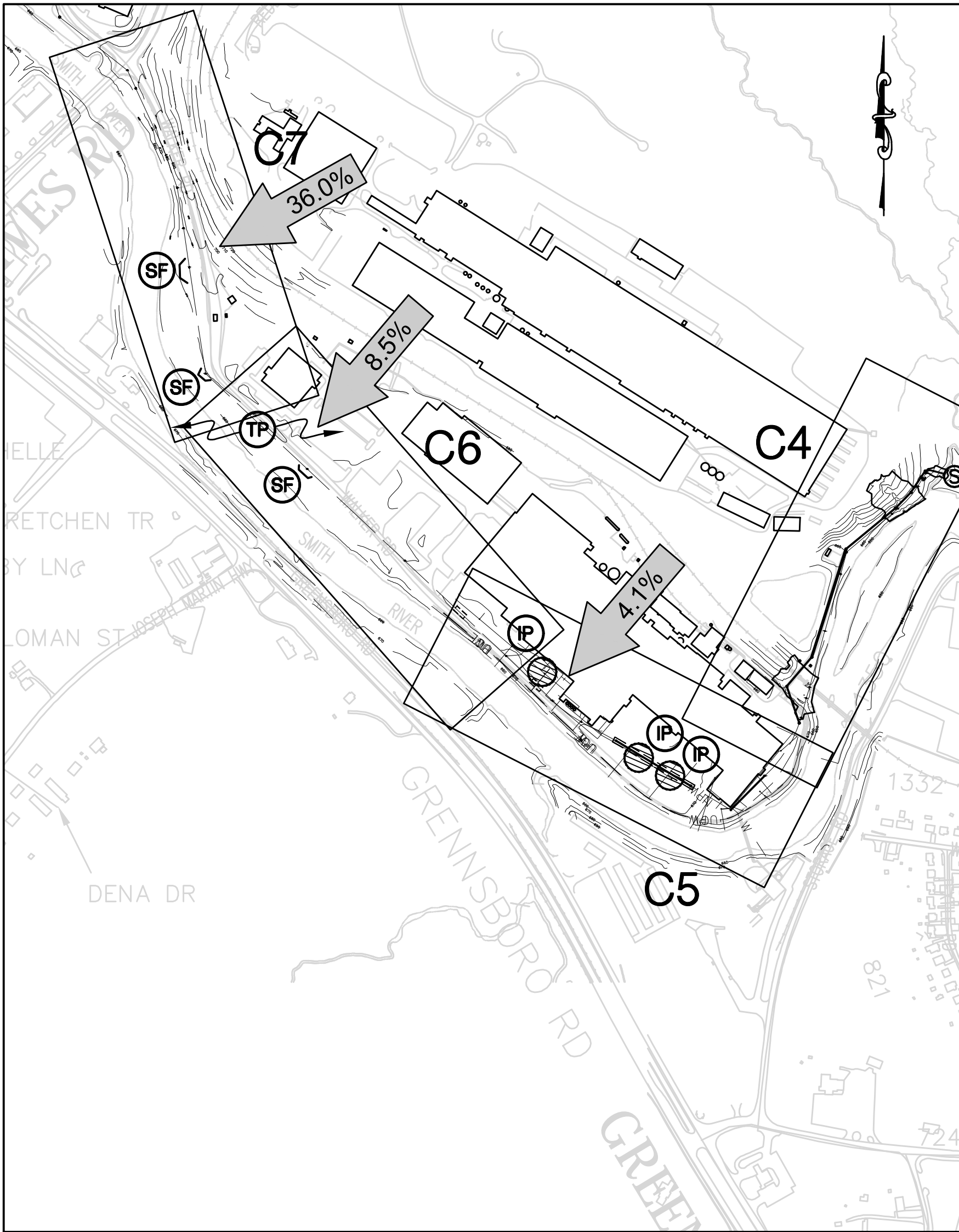
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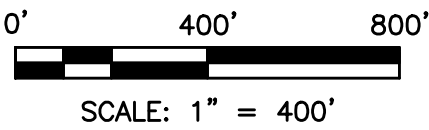
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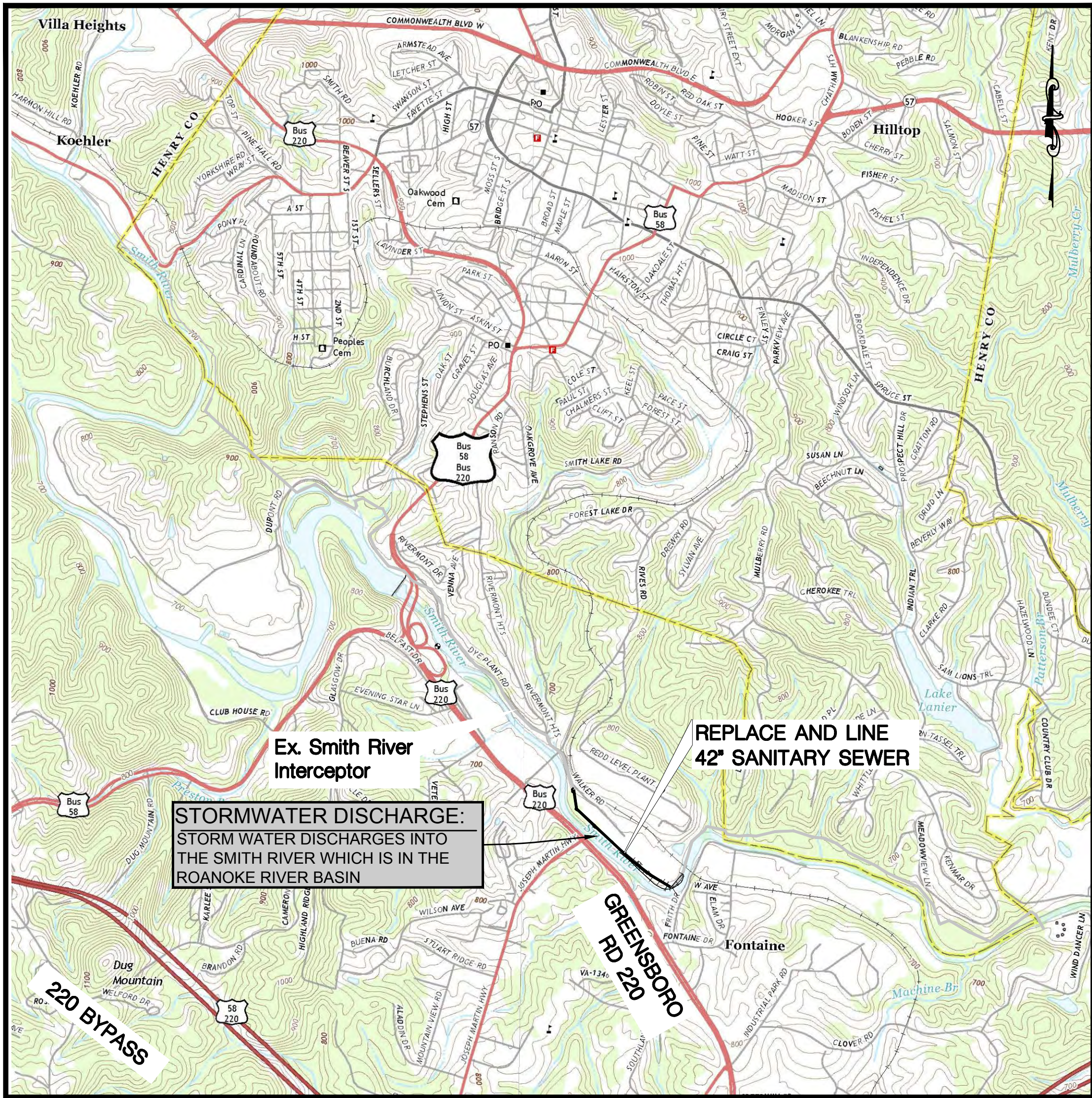


OVERALL SITE LAYOUT



VA E&S Minimum Standards

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXISTING WHILE THE SEDIMENT BASIN IS UTILIZED.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA.
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
 - APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOULDER SWEEPING OR TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:
 - CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
 - ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
 - THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR
 - (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.
(B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND
(C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 - IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 - IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS; OR
 - IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;
 - DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
 - PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.
 - THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
 - ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.
 - IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
 - OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
 - ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
 - INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
 - IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
 - ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.
 - ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO:
 - DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS;
 - DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND
 - REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1, 5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE FORESTED PEAK FLOW RATE FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 82.1-44.15:54 OR § 82.1-44.15:65 OF THE ACT.
 - FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 82.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 82.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH § 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS.
 - COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN § 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SUBDIVISION 19 OF THIS SUBSECTION.



USGS VICINITY MAP
SCALE: 1"=2000'

DEQ - Duidance Memo No. 15-2003

- The requirement for the preparation and implementation of a site specific stormwater management plan has been waived in accordance with the Virginia Stormwater Management Regulations (9VAC 25-870-et seq) and further clarification in DEQ Guidance Memo No. 15- 2003 (enclosed) based on the project meeting the following requirements:
 - The project does not significantly alter the predevelopment runoff characteristics of the land surface after the completion of construction and final stabilization;
 - The project is managed so that less than one (1) acre of land disturbance occurs on a daily basis;
 - The disturbed land where work has been completed is adequately stabilized on a daily basis;
 - The environment is protected from erosion and sedimentation damage associated with the land-disturbing activity;
 - The owner and/or construction activity operator designs, installs, implements, and maintains pollution prevention measures to:
 - Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters;
 - Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on-site to precipitation and to stormwater;
 - Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures;
 - Prohibit the discharge of wastewater from the washout of concrete;
 - Prohibit the discharge of wastewater from the washout and cleanup of stucco, paint, form release oils, curing compounds, and other construction materials; and
 - Prohibit the discharge of fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
 - The owner and/or construction activity operator provides reasonable assurance to DEQ or the local VSMP Authority that all of the above conditions will be satisfied. This may be accomplished by incorporating these conditions into an erosion and sediment control plan developed for the project.

EROSION & SEDIMENT CONTROL NOTES:

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE ADHERED TO BY THE CONTRACTOR AT ALL TIMES:

- OBTAIN ALL PERMITS AND POST ALL REQUIRED BONDS.
CONTRACTOR SHALL KEEP & MAINTAIN A COPY OF THE VIRGINIA EROSION & SEDIMENT CONTROL HAND-BOOK, LATEST EDITION ON-SITE AT ALL TIMES.
INSTALL PERIMETER SILT FENCE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT.
TEMPORARY EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO ALL LAND DISTURBING ACTIVITIES.
- INSTALL INLET PROTECTION ON YARD INLETS WITHIN PAVED AREAS WHERE OPEN-CUT OF PAVEMENT OCCURS.
CONTRACTOR SHALL NOT DISTURB TREES UNLESS INDICATED IN THE FIELD PER ENGINEER AND OWNER.
CONTRACTOR SHALL SEED AND MULCH ALL DITCHES <2% SLOPE. ALL DITCHES GREATER THAN 2% SLOPE SHALL BE LINED W/ BLANKET MATTING.
ALL SPECIFIC LOCATIONS FOR SILT FENCE ARE NOT SHOWN ON THE APPROVED PLANS. THE NEED FOR ADDITIONAL E&S CONTROL MEASURES IS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND THE EROSION CONTROL DIRECTOR.
- INSTALL BLANKET MATTING AND RIP-RAP IN DITCHES PER DETAIL.
- TEMPORARY SEEDING SHALL OCCUR AS CONSTRUCTION PROGRESSES. NO SECTION OF DISTURBANCE LONGER THAN 1000' SHALL BE LEFT UNSEED. TEMPORARY SEEDING SHALL COMPLY W/ THE NPDES PERMIT ON THIS SH.T.
- REMOVE EROSION AND SEDIMENT CONTROL MEASURES UPON SITE STABILIZATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE MEASURES UNTIL THE SITE IS STABILIZED.
- ALL DENUDED AREAS SHALL BE SHAPED TO PROMOTE POSITIVE DRAINAGE.

AREA OF LAND DISTURBANCE = 0.26± (ACRES)

E&S LEGEND

- LIMITS OF DISTURBANCE
- (CE)** TEMPORARY STONE CONSTRUCTION ENTRANCE, VA STD. 3.02
- (TS)** TEMPORARY SEEDING, VA E&S STD. 3.31
- (PS)** PERMANENT SEEDING, VA E&S STD. 3.32
- (TP)** TREE PROTECTION VA E&S STD. 3.38
- (SF)** SILT FENCE, VA E&S STD. 3.05 — XX—
- (IP)** INLET PROTECTION, VA E&S STD. 3.07
- 0.0% DRAINAGE FLOW ARROW w/ APPROXIMATE SLOPE



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Smith River Interceptor
Walker Road Extension
Sewer Repair
City of Martinsville
Contract IV

SEAL



KEY PLAN

SCALE

AS NOTED

No.	DATE	BY	Description
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REVISIONS

DRAWN BY MWC

APPROVED BY RSE

CHECKED BY ATA

DATE May, 2017

TITLE

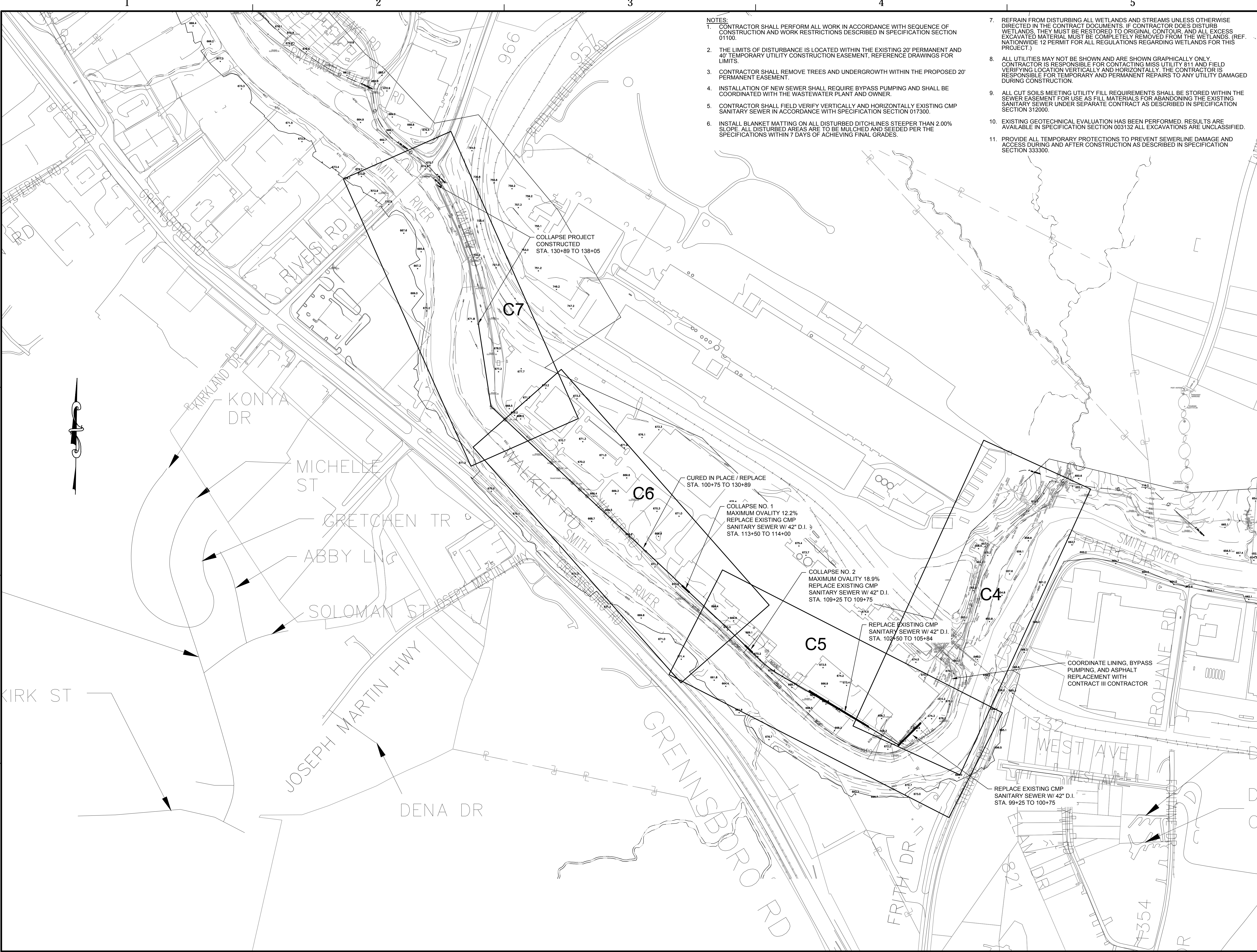
OVERALL EROSION
AND SEDIMENT
CONTROL PLAN

PROJECT NO. 50078733

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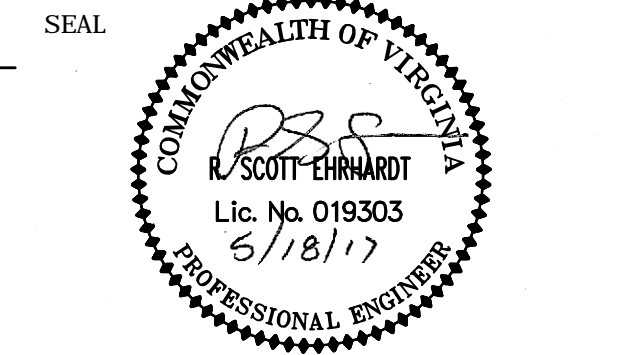


- NOTES:
1. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH SEQUENCE OF CONSTRUCTION AND WORK RESTRICTIONS DESCRIBED IN SPECIFICATION SECTION 01100.
 2. THE LIMITS OF DISTURBANCE IS LOCATED WITHIN THE EXISTING 20' PERMANENT AND 40' TEMPORARY UTILITY CONSTRUCTION EASEMENT, REFERENCE DRAWINGS FOR LIMITS.
 3. CONTRACTOR SHALL REMOVE TREES AND UNDERGROWTH WITHIN THE PROPOSED 20' PERMANENT EASEMENT.
 4. INSTALLATION OF NEW SEWER SHALL REQUIRE BYPASS PUMPING AND SHALL BE COORDINATED WITH THE WASTEWATER PLANT AND OWNER.
 5. CONTRACTOR SHALL FIELD VERIFY VERTICALLY AND HORIZONTALLY EXISTING CMP SANITARY SEWER IN ACCORDANCE WITH SPECIFICATION SECTION 017300.
 6. INSTALL BLANKET MATTING ON ALL DISTURBED DITCHLINES STEEPER THAN 2.00% SLOPE. ALL DISTURBED AREAS ARE TO BE MULCHED AND SEEDED PER THE SPECIFICATIONS WITHIN 7 DAYS OF ACHIEVING FINAL GRADES.
 7. REFRAIN FROM DISTURBING ALL WETLANDS AND STREAMS UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. IF CONTRACTOR DOES DISTURB WETLANDS, THEY MUST BE RESTORED TO ORIGINAL CONTOUR, AND ALL EXCESS EXCAVATED MATERIAL MUST BE COMPLETELY REMOVED FROM THE WETLANDS. (REF. NATIONWIDE 12 PERMIT FOR ALL REGULATIONS REGARDING WETLANDS FOR THIS PROJECT.)
 8. ALL UTILITIES MAY NOT BE SHOWN AND ARE SHOWN GRAPHICALLY ONLY. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY 811 AND FIELD VERIFYING LOCATION VERTICALLY AND HORIZONTALLY. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY AND PERMANENT REPAIRS TO ANY UTILITY DAMAGED DURING CONSTRUCTION.
 9. ALL CUT SOILS MEETING UTILITY FILL REQUIREMENTS SHALL BE STORED WITHIN THE SEWER EASEMENT FOR USE AS FILL MATERIALS FOR ABANDONING THE EXISTING SANITARY SEWER UNDER SEPARATE CONTRACT AS DESCRIBED IN SPECIFICATION SECTION 312000.
 10. EXISTING GEOTECHNICAL EVALUATION HAS BEEN PERFORMED. RESULTS ARE AVAILABLE IN SPECIFICATION SECTION 003132 ALL EXCAVATIONS ARE UNCLASSIFIED.
 11. PROVIDE ALL TEMPORARY PROTECTIONS TO PREVENT SEWERLINE DAMAGE AND ACCESS DURING AND AFTER CONSTRUCTION AS DESCRIBED IN SPECIFICATION SECTION 333300.

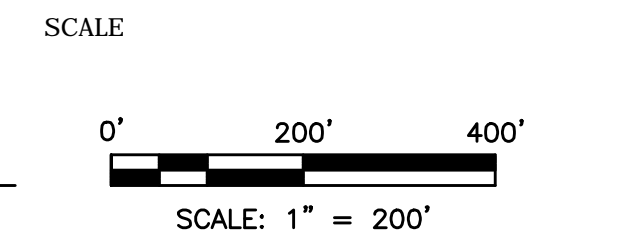


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Smith River Interceptor
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Sewer Repair
City of Martinsville
Contract IV



KEY PLAN



No.	DATE	BY	Description
REVISIONS			

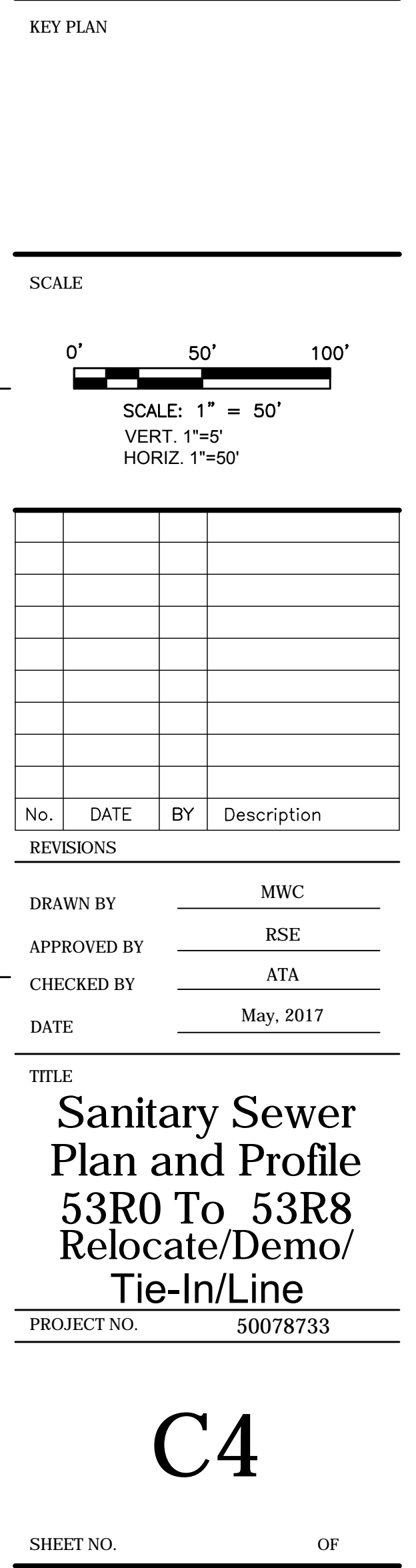
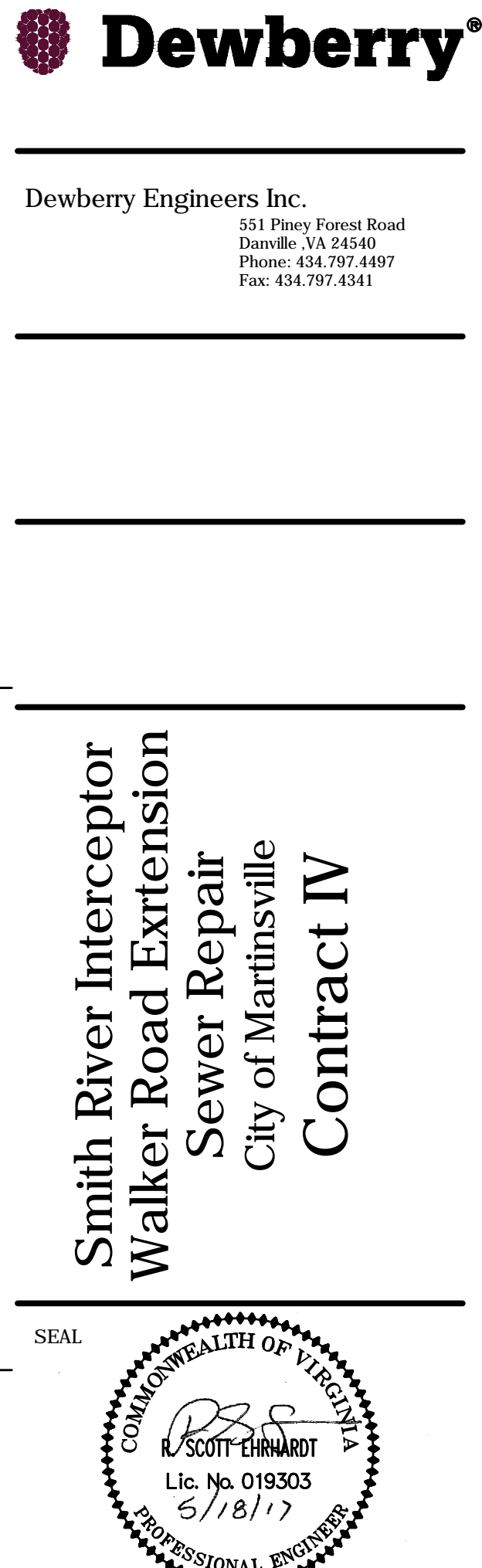
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APPROVED BY _____ RSE
CHECKED BY _____ ATA
DATE _____ May, 2017

TITLE
**Sanitary Sewer
Overall Map**

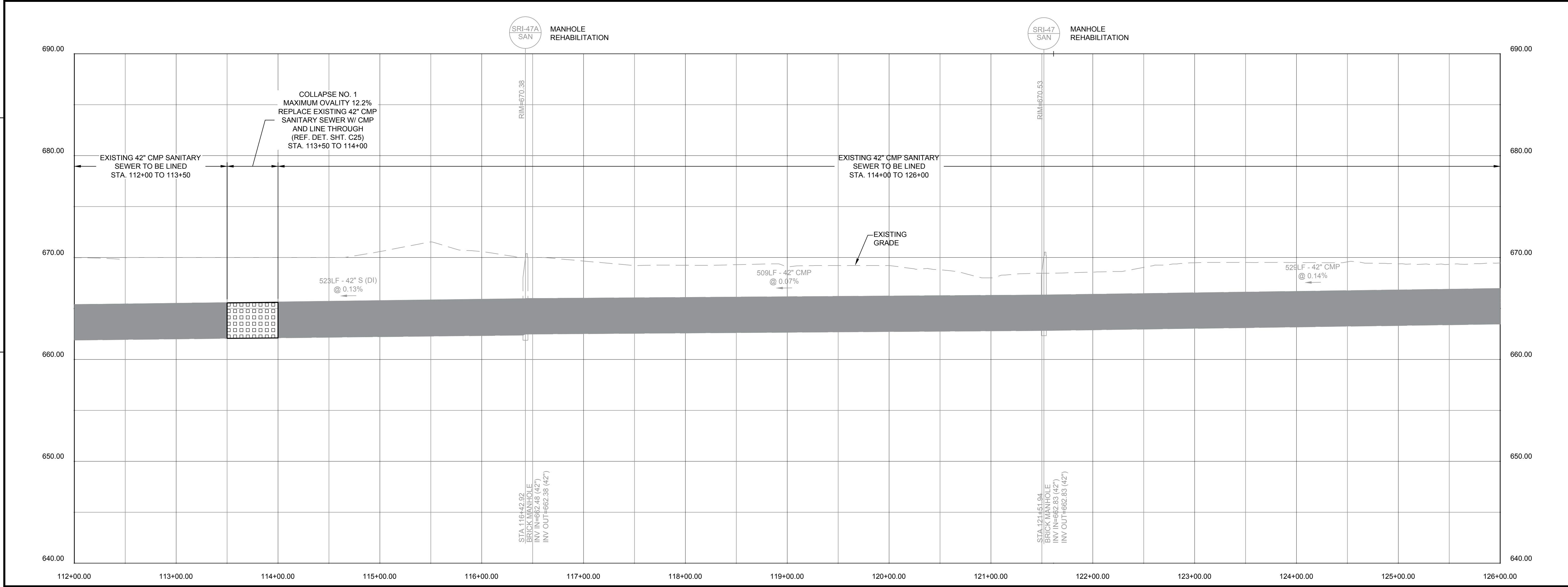
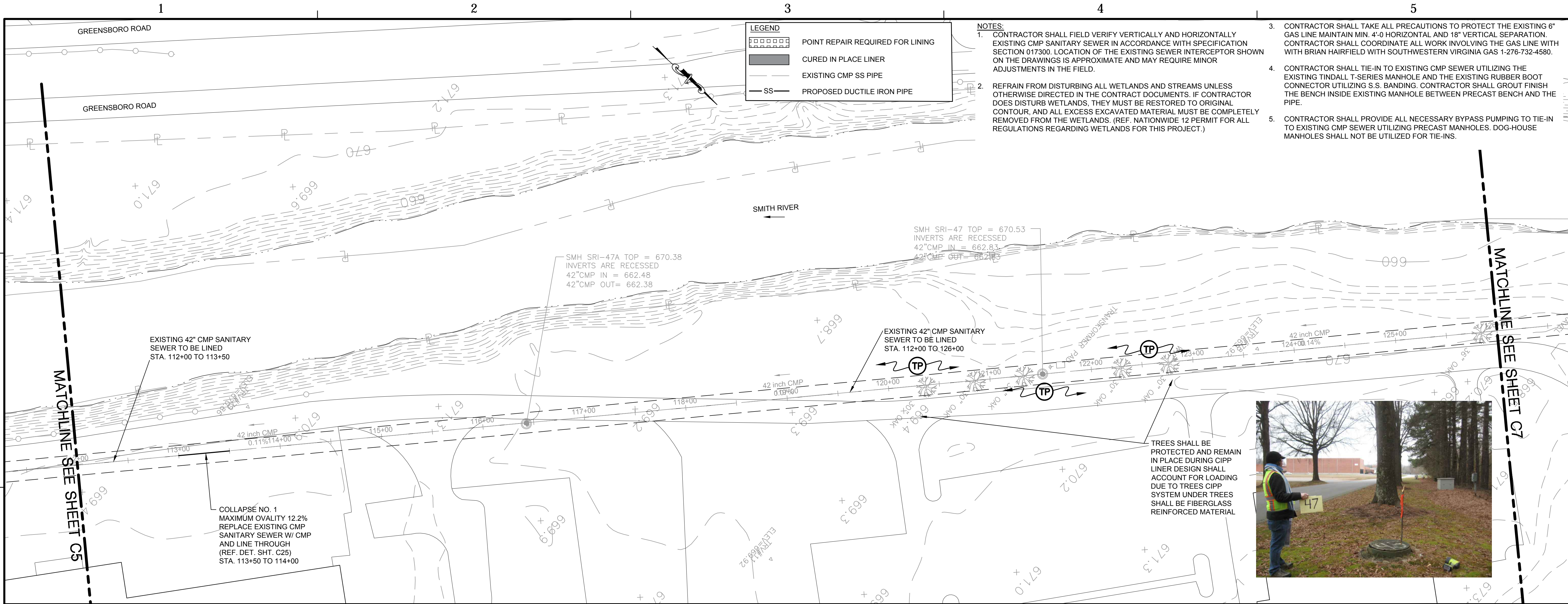
PROJECT NO. 50078733

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SHEET NO. _____ OF _____

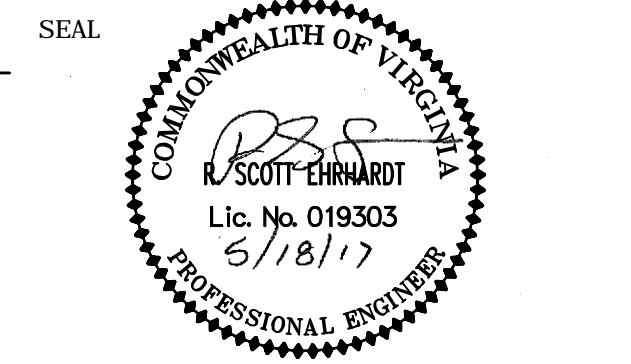


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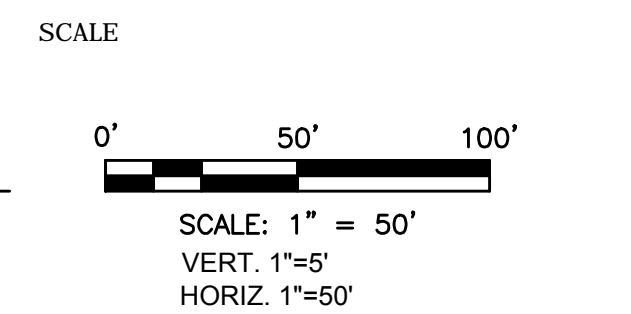


Dewberry Engineers Inc.
551 Piney Forest Road
Danville, VA 24540
Phone: 434.797.4497
Fax: 434.797.4341

Smith River Interceptor
Walker Road Extension
Sewer Repair
City of Martinsville
Contract IV



KEY PLAN



No.	DATE	BY	Description

REVISIONS			
DRAWN BY	MWC		
APPROVED BY	RSE		
CHECKED BY	ATA		
DATE	May, 2017		

TITLE

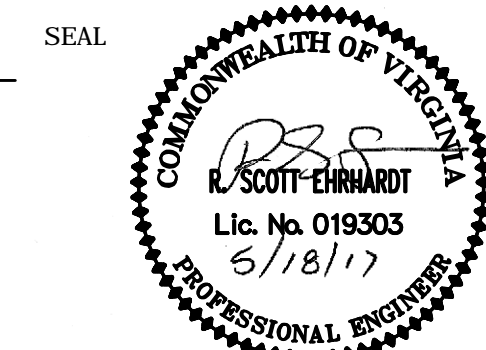
Sanitary Sewer
Plan and Profile
SRI-48 To SRI-46
Line/Replace

PROJECT NO. 50078733

C6

SHEET NO. OF

**Smith River Interceptor
Walker Road Extension
Sewer Repair
City of Martinsville
Contract IV**



KEY PLAN

SCALE

No.	DATE	BY	Description

DRAWN BY MWC
APPROVED BY RSE
CHECKED BY ATA
DATE May, 2017

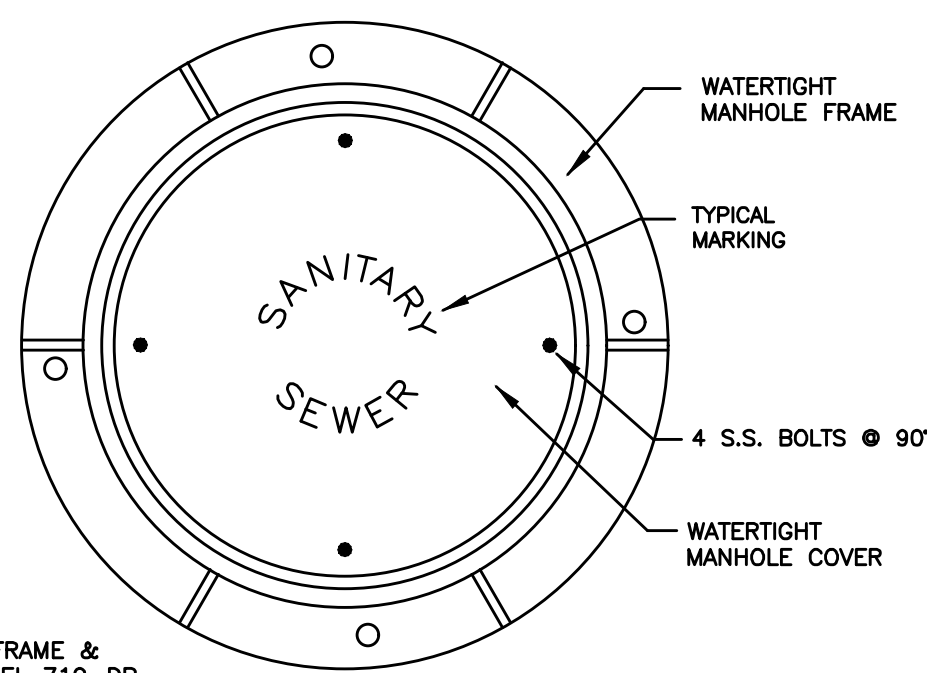
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**STANDARD
DETAILS**

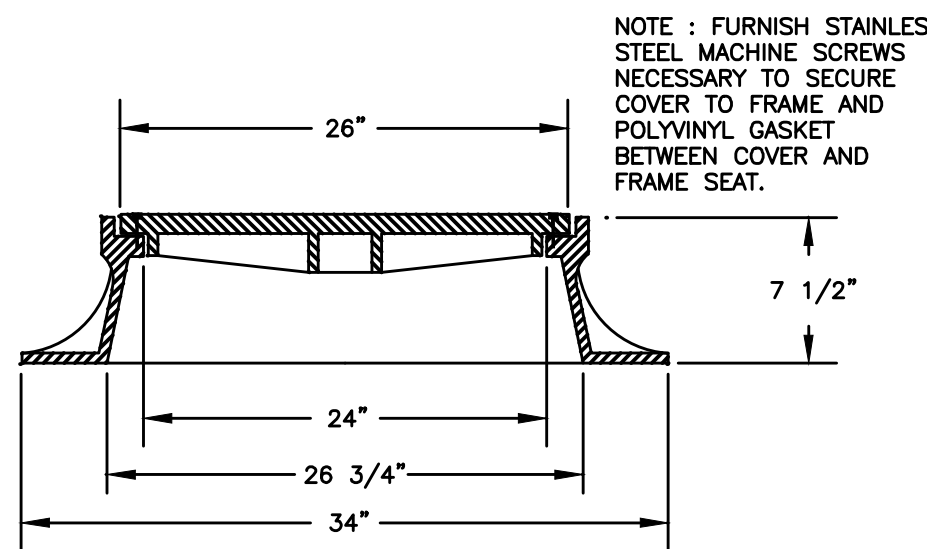
PROJECT NO. 50078733

SHEET NO.

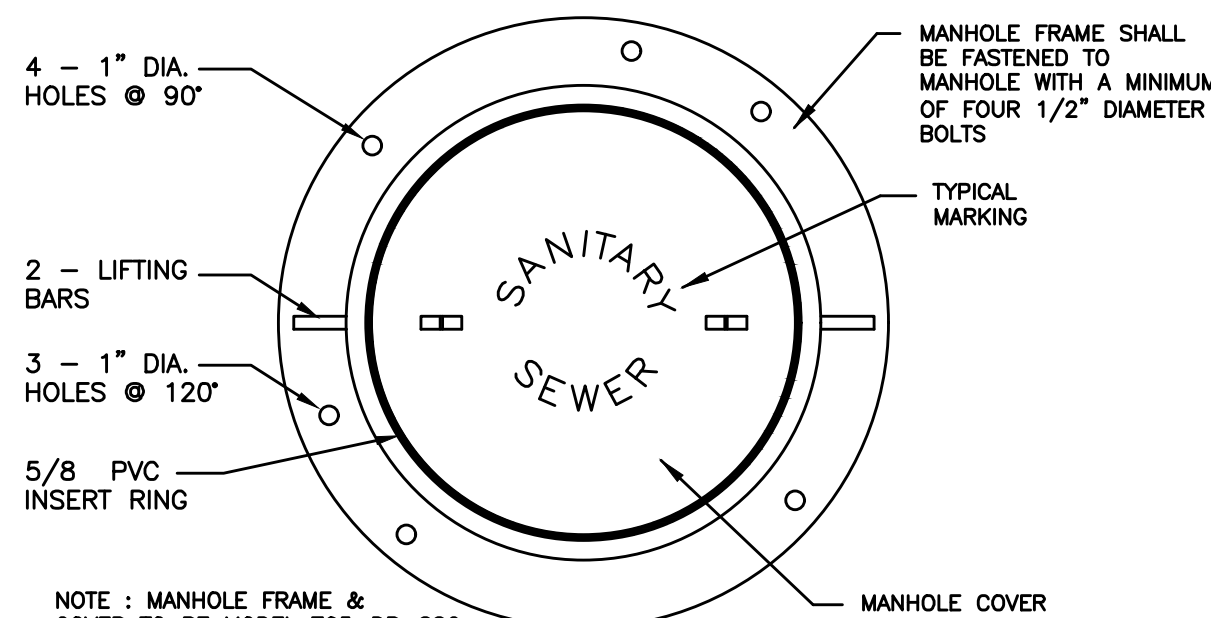
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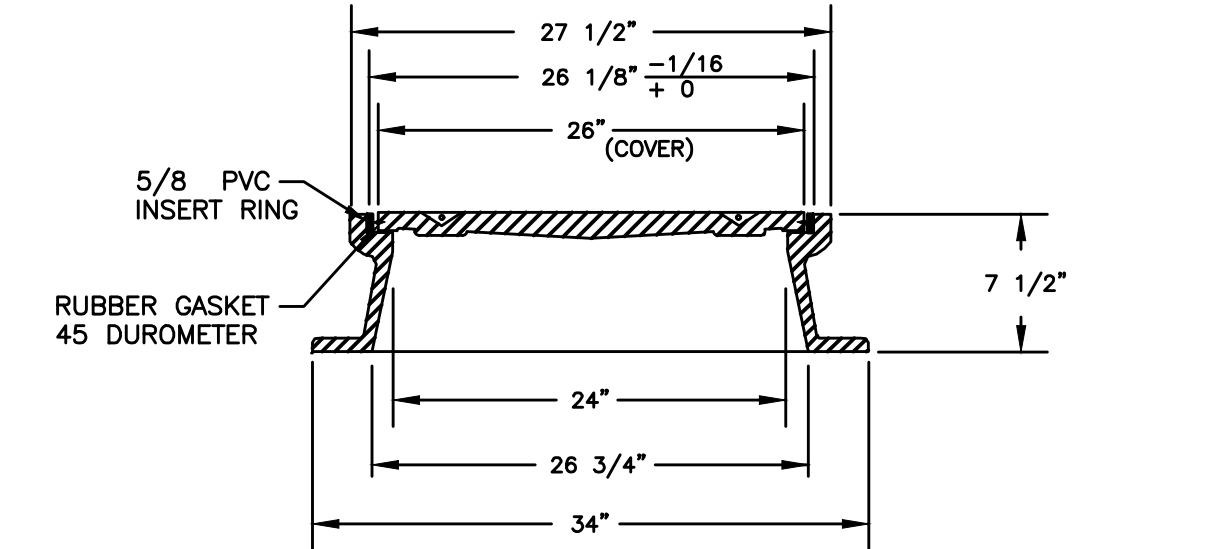
NOTE: MANHOLE FRAME & COVER TO BE MODEL 710-DP BY U.S. FOUNDRY & MFG. CORP. OR ENGR. APPROVED EQUAL



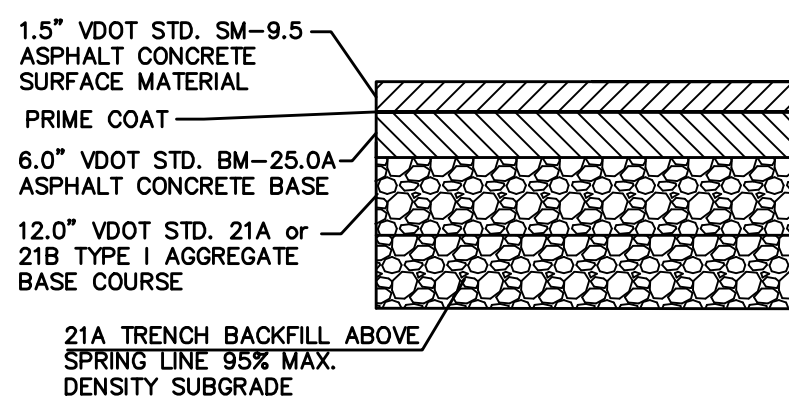
**WATERTIGHT MANHOLE
FRAME & COVER**
NOT TO SCALE



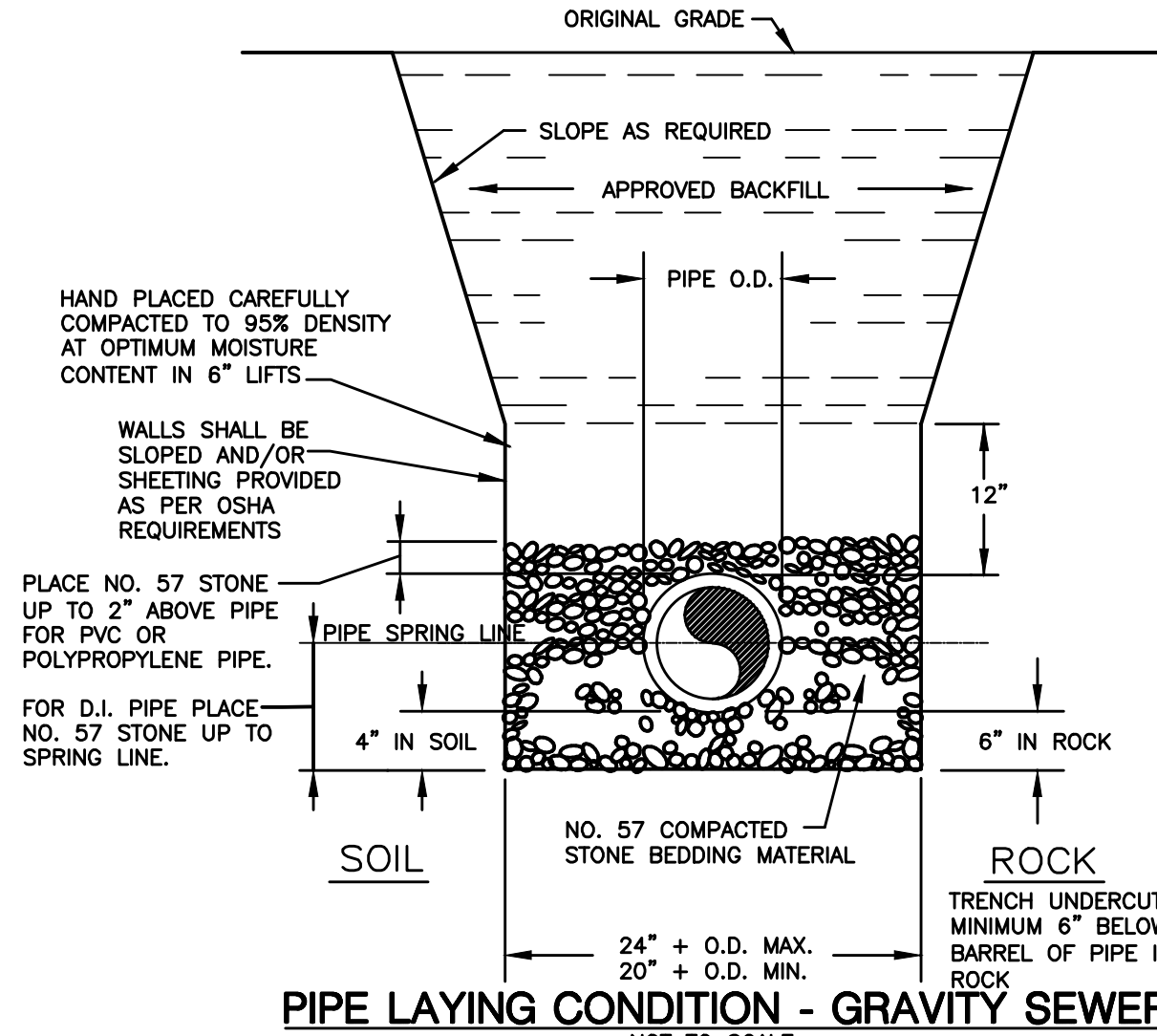
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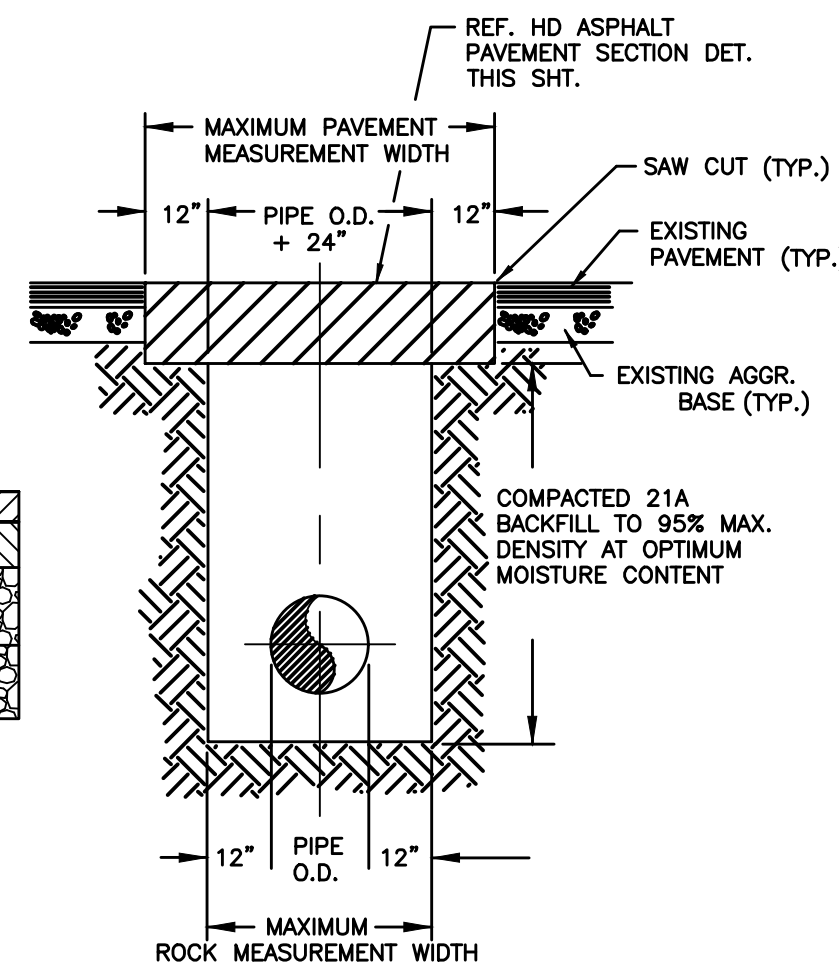
**TRAFFIC RATED MANHOLE
STANDARD MANHOLE FRAME & COVER**
NOT TO SCALE



**HD ASPHALT PAVEMENT
SECTION DETAIL**
NTS



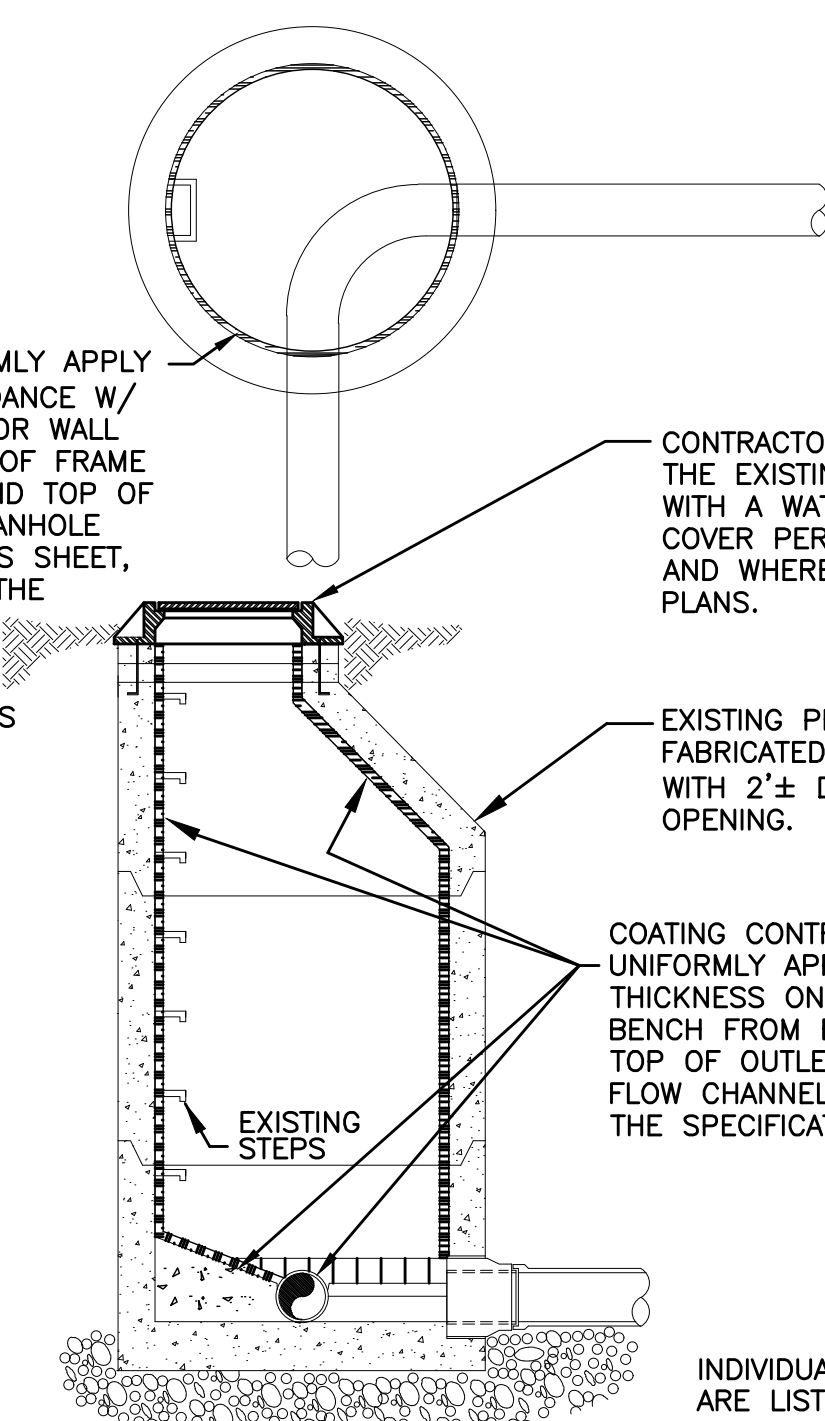
PIPE LAYING CONDITION - GRAVITY SEWER
NOT TO SCALE



PAVEMENT REPAIR DETAIL
NO SCALE

CONTRACTOR SHALL UNIFORMLY APPLY COATING SYSTEM IN ACCORDANCE W/ SECTION 333318 ON INTERIOR WALL AND BENCH FROM BOTTOM OF FRAME TO TOP OF OUTLET PIPE AND TOP OF FLOW CHANNEL, IN EACH MANHOLE LOCATED AS SHOWN ON THIS SHEET, AND IN ACCORDANCE WITH THE SPECIFICATIONS.

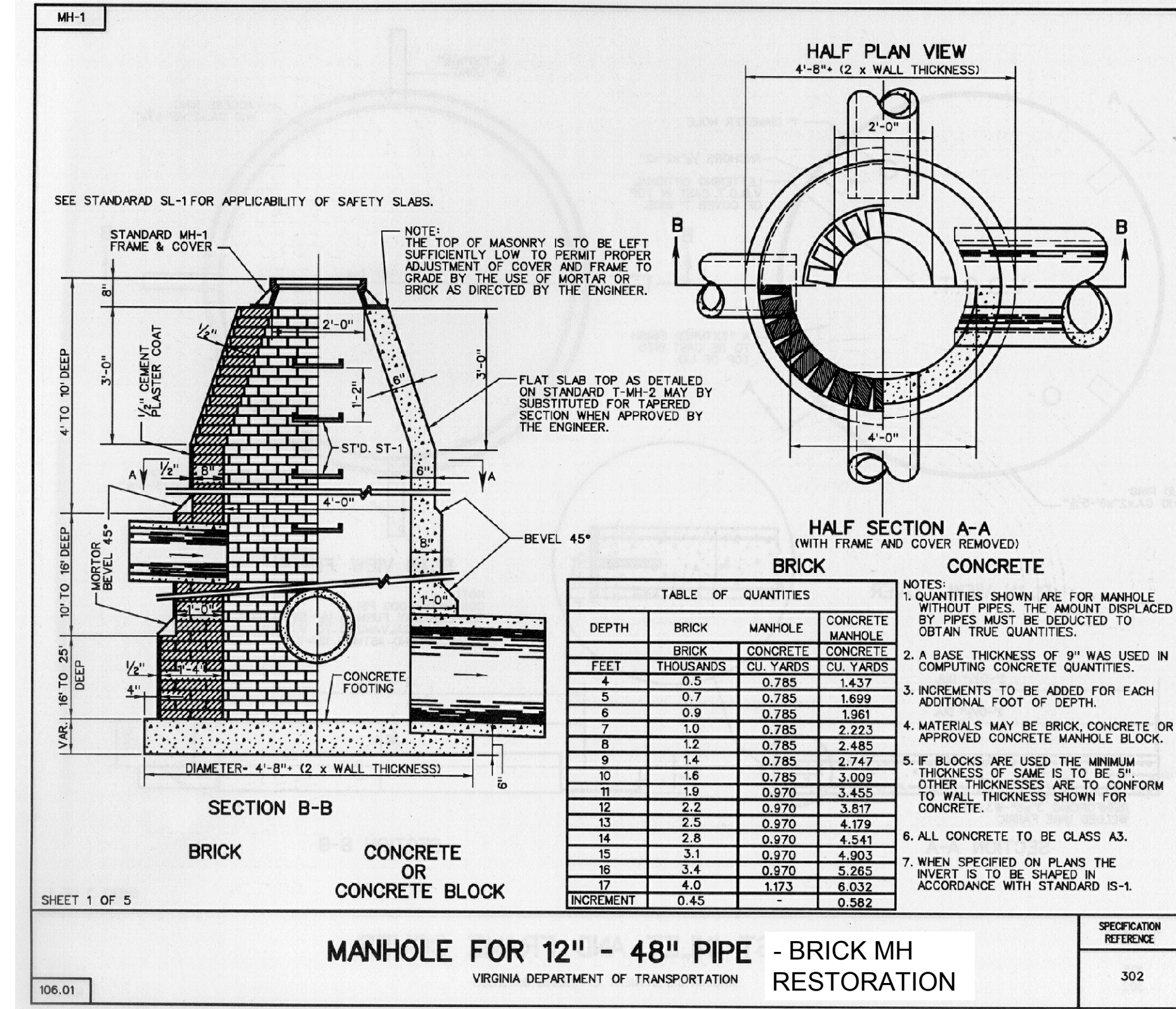
INDIVIDUAL MANHOLE DEPTHS ARE LISTED ON THIS SHEET



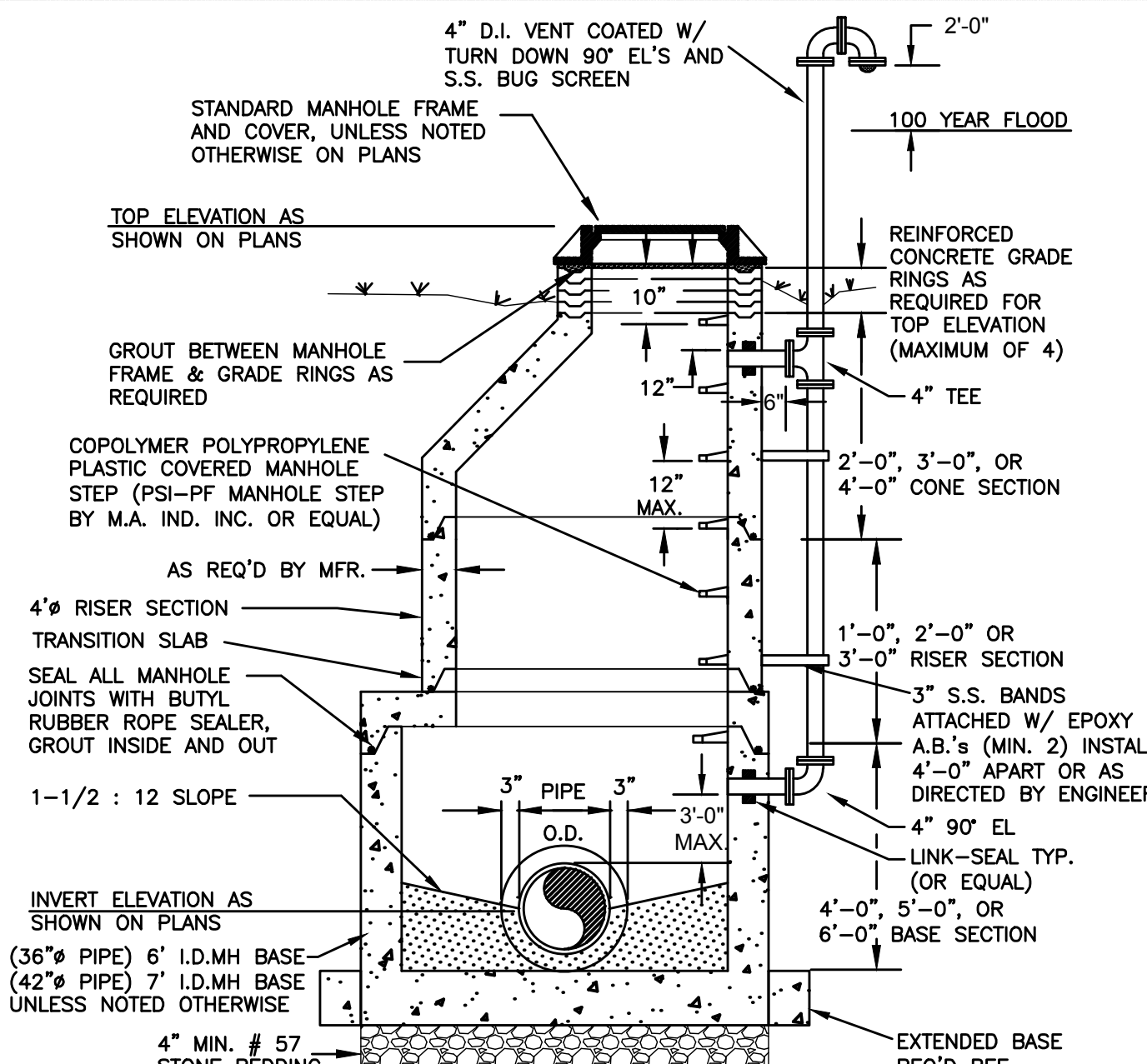
- NOTES:
- ALL ACTIVE LEAKS SHALL BE STOPPED AND SUCH STOPPAGE SHALL BE CONFIRMED BY OWNER OR ENGINEER PRIOR TO COATING.
 - ALL HOLES AND SPALLS SHALL BE PATCHED PRIOR TO COATING.
 - EPOXY COATING SHALL BE INSTALLED PER SPECIFICATION 333318.
 - WHERE BRICK MANHOLES ARE UTILIZED FOR CURED IN PLACE LINING, IF CONTRACTOR REMOVES THE CORBEL IT SHALL BE REPLACED PER VDOT DETAIL MH-1. ONCE CONSTRUCTED, INSPECTED, AND APPROVED COATING SYSTEM SHALL BE APPLIED PER SPECIFICATION SECTION 333318.

**TYPICAL REHABILITATED EX. BRICK
OR PRE-CAST MANHOLE DETAIL**

N.T.S.

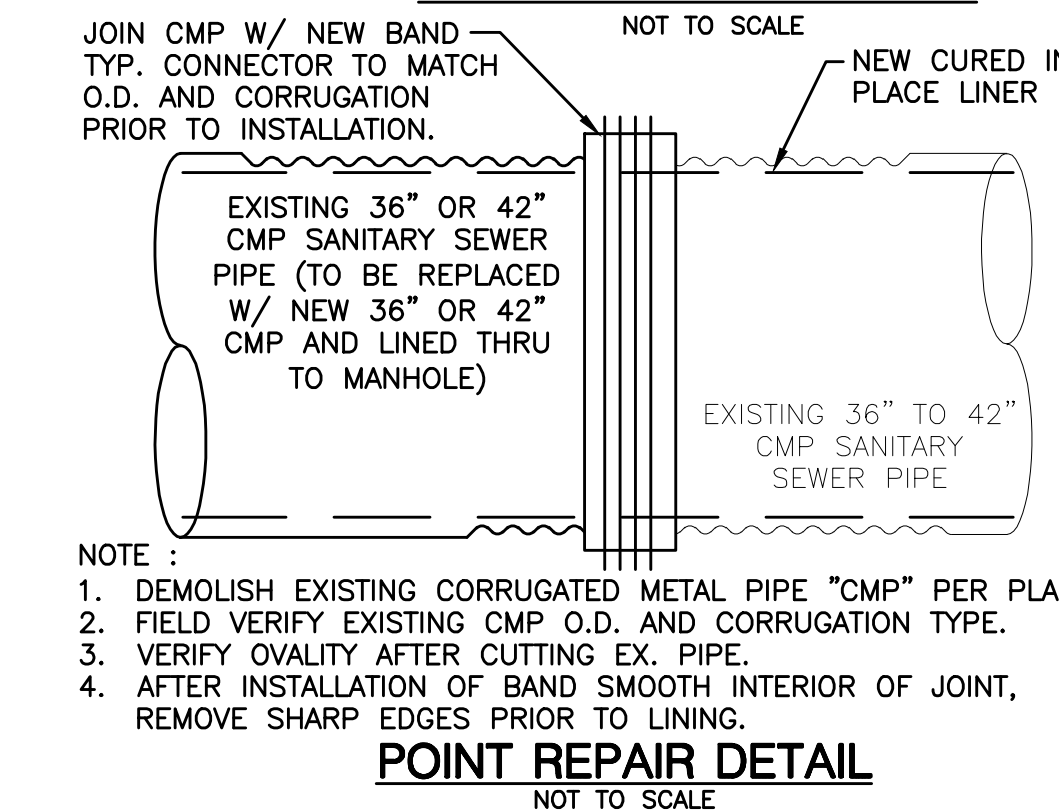


**MANHOLE FOR 12" - 48" PIPE - BRICK MH
RESTORATION**
VIRGINIA DEPARTMENT OF TRANSPORTATION



- NOTE:
- MINIMUM REINFORCING SHALL BE 0.12 SQ. INCHES PER LINEAR FOOT IN EACH DIRECTION.
 - CONTRACTOR SHALL PROVIDE INTERIOR COATING EQUAL TO PERMA-SHIELD H2S FR SERIES 434 AND PERMAGLAZE ON INSIDE WALLS AND BENCH OF NEW MANHOLES.
 - REF. SPECIFICATION SECTION 333300 FOR RESILIENT PIPE CONNECTORS STANDARD BOOT TYPE CAST INTO WALLS.
 - ALL MANHOLES ABOVE HYDRO DAM - SRI-1 TO SRI-36 AND BELOW HYDRO DAM TO BEHIND BASSETT WALKER - 53R0 TO 40R1 SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER, TO RESIST FLOATION. DESIGNER SHALL ASSUME FULLY SUBMERGED CONDITION.
 - REF. PLAN AND DETAILS FOR VENT LOCATIONS.
 - ALL WATERTIGHT MANHOLES SHALL BE PROVIDED W/ VENT AT LEAST EVERY 500FT OR MORE FREQUENT DEPENDING ON MANHOLE SPACING. VENTS SHALL BE PLACED ON SIDE OF MANHOLE THAT WILL MINIMIZE OBSTRUCTION FOR MAINTENANCE VEHICLES.

**STANDARD PRECAST MANHOLE
WITH MONOLITHIC BASE**



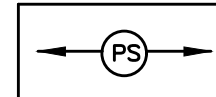
- NOTE:
- DEMOLISH EXISTING CORRUGATED METAL PIPE "CMP" PER PLANS.
 - FIELD VERIFY EXISTING CMP O.D. AND CORRUGATION TYPE.
 - VERIFY QUALITY AFTER CUTTING EX. PIPE.
 - AFTER INSTALLATION OF BAND SMOOTH INTERIOR OF JOINT, REMOVE SHARP EDGES PRIOR TO LINING.

POINT REPAIR DETAIL
NOT TO SCALE

EXISTING SEWER MANHOLE STRUCTURE TABLE							
ID NO.	NORTHING	EASTING	TOP	INVERT IN	INVERT OUT	DEPTH	DETAILS
SRI-1	3412944.18	11070362.65	714.39		700.94	13.45	Rehabilitate
SRI-2	3412562.49	11070722.59	711.64	700.04	699.94	11.70	Demolish
SRI-3	3412295.70	11070892.47	711.37	699.82	699.67	11.70	Demolish
SRI-4	3412014.30	11071071.55	709.66	699.41	699.41	10.25	Not in Contract
SRI-5	3411776.64	11071222.87	708.13	699.03	699.03	9.10	Not in Contract
SRI-6	3411547.33	11071422.19	708.75	698.65	698.65	10.10	Demolish
SRI-7	3411424.86	11071654.04	709.81	698.61	698.61	11.20	Not in Contract
SRI-8	3411225.81	11071881.53	708.48	698.13	698.13	10.35	Not in Contract
SRI-9	3410987.58	11072175.45	708.00	697.80	697.80	10.20	Demolish
SRI-10	3410850.27	11072250.65	709.82	697.72	697.72	12.10	Replace
SRI-11	3410704.03	11072240.16	708.51	697.66	697.51	11.00	Demolish
SRI-12	3410439.70	11072282.62	708.54	697.44	697.44	11.10	Not in Contract
SRI-13	3410170.97	11072413.91	707.90	697.15	697.15	10.75	Not in Contract
SRI-14	3409950.00	11072616.77	707.96	697.06	696.86	11.10	Not in Contract
SRI-15	3409763.78	11072866.11	707.38	696.98	696.98	10.40	Not in Contract
SRI-15A	3409566.86	11073010.07	706.76	696.31	696.06	10.70	Not in Contract
SRI-16	3409349.11	11073198.64	707.20	696.10	695.95	11.25	Not in Contract
SRI-17	3409045.64	11073203.60	705.89	695.99	695.79	10.10	Not in Contract
SRI-18	3408750.42	11073197.63	707.19	695.89	695.89	11.30	Not in Contract
SRI-19	3408483.04	11073115.96	708.50	695.80	695.70	12.80	Not in Contract
SRI-20	3408212.17	11072985.81	708.16	695.46	695.36	12.80	Not in Contract
SRI-21	3407891.52	11073332.68	720.47	695.17	694.67	25.80	Not in Contract
SRI-22	3406661.12	11074719.30	718.69	693.19	693.09	25.60	Not in Contract
SRI-23	3406491.02	11074913.28	703.67	692.77	692.77	10.90	Rehabilitate
SRI-24	3406670.08	11075312.47	703.48	692.68	692.58	10.90	Demolish
SRI-25	3406382.91	11075714.11	702.70	692.30	692.30	10.40	Rehabilitate
SRI-26	3406142.75	11076143.13	703.12	692.13	692.02	11.10	Rehabilitate
SRI-27	3406213.83	11076181.16	702.43	692.13	691.93	10.50	Rehabilitate
SRI-28	3406313.45	11076149.43	702.43	691.85	691.35	11.08	Demolish
SRI-29	3406338.41	11076218.23	701.07	691.27	691.07	10.00	Rehabilitate
SRI-30	3406371.92	11076313.13	702.12	691.02	691.02	11.10	Rehabilitate
SRI-31	3406160.58	11076660.49	701.78	691.28	691.08	10.70	Demolish
SRI-31A	3406147.65	11076733.63	701.94	691.14	691.04	10.90	Demolish
SRI-32	3405917.04	11076846.83	703.66	690.66	690.56	13.10	Demolish
SRI-33	3405588.88	11076440.21	702.25	689.85	689.85	12.40	Demolish
SRI-34	3405238.08	11076607.34	706.52	689.62	689.52	17.00	Demolish
SRI-35	3404938.82	11076851.86	701.22	688.92	688.72	12.50	Demolish
SRI-36	3404832.55	11077188.67	709.00	688.75	688.60	20.40	Rehabilitate
SRI-36A	3404643.21	11077390.00	700.09	688.25	688.25	11.84	Rehabilitate
SRI-37	3404530.59	11077552.73	694.64	687.69	687.59	7.05	Rehabilitate
SRI-38	3404453.74	11077558.58	699.78	687.28	687.18	12.60	Rehabilitate
SRI-38A	3404268.94	11077896.48	700.17	687.12	686.87	13.30	Not in Contract
SRI-38B	3404117.29	11077981.43	692.39	680.99	680.89	11.50	Not in Contract
SRI-38C	3403830.19	11078002.07	682.80	674.60	672.10	10.70	Not in Contract
SRI-38D	3403703.64	11078069.42	678.67	671.47	671.47	7.20	Not in Contract
SRI-39	3403470.75	11078194.23	678.48	670.28	670.18	8.30	Not in Contract

* SEWERS TO BE REPLACED IN PLACE WILL REQUIRE REPLACEMENT OF EX. MANHOLES, SEWER TO BE LINED SHALL HAVE EXISTING BRICK MANHOLES REHABILITATED.

1992



STD & SPEC 3.32

PERMANENT SEEDING

DEFINITION

THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED.

PURPOSES

1. TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.
2. TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THAT IS ECONOMICALLY ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.
3. TO IMPROVE WILDLIFE HABITAT.
4. TO ENHANCE NATURAL BEAUTY.

CONDITIONS WHERE PRACTICE APPLIES

1. DISTURBED AREAS WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL.
2. ROUGH-GRADED AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.

LAND USE: A PRIME CONSIDERATION IN SELECTING WHICH PLANTS TO ESTABLISH IS THE INTENDED USE OF THE LAND. ALL OF THESE USES — RESIDENTIAL, INDUSTRIAL, COMMERCIAL, RECREATIONAL — CAN BE SEPARATED INTO TWO MAJOR CATEGORIES: HIGH-MAINTENANCE AND LOW-MAINTENANCE.

HIGH-MAINTENANCE AREAS WILL BE MOWED FREQUENTLY, LIMED AND FERTILIZED REGULARLY, AND WILL EITHER RECEIVE INTENSE USE (e.g., ATHLETICS) OR REQUIRE MAINTENANCE TO AN AESTHETIC STANDARD (HOME LAWNS). GRASSES USED FOR THESE SITUATIONS MUST BE FINE-LEAVED AND ATTRACTIVE IN APPEARANCE, ABLE TO FORM TIGHT SOO, AND BE LONG-LIVED PERENNIALS. THEY MUST BE WELL-ADAPTED TO THE GEOGRAPHIC AREA WHERE THEY ARE PLANTED, BECAUSE CONSTANT MOWING PUTS TURF UNDER GREAT STRESS. SITES WHERE HIGH-MAINTENANCE VEGETATIVE COVER IS DESIRABLE INCLUDE HOMES, INDUSTRIAL PARKS, SCHOOLS, CHURCHES, ATHLETIC PLAYING SURFACES AS WELL AS SOME RECREATIONAL AREAS.

LOW-MAINTENANCE AREAS WILL BE MOWED INFREQUENTLY OR NOT AT ALL; AND FERTILIZER MAY NOT BE APPLIED ON REGULAR BASIS. THE AREAS WILL NOT BE SUBJECTED TO INTENSE USE, NOR REQUIRED TO HAVE A UNIFORM APPEARANCE. THESE PLANTS MUST BE ABLE TO PERSEVERE WITH LITTLE MAINTENANCE OVER LONG PERIODS OF TIME. GRASS AND LEGUME MIXTURES ARE FAVORED FOR THESE SITES BECAUSE LEGUMES ARE CAPABLE OF FIXING NITROGEN FROM THE AIR FOR THEIR OWN USE, AND THE USE OF PLANTS AROUND THEM SUCH MIXED STANDS ARE BETTER ABLE TO WITHSTAND ADVERSE CONDITIONS. SITES WHICH WOULD BE SUITABLE FOR LOW-MAINTENANCE VEGETATION INCLUDE STEEP SLOPES, STREAM OR CHANNEL BANKS, SOME COMMERCIAL PROPERTIES, AND "UTILITY TURF" AREAS SUCH AS ROADWAYS.

TABLE 3.32-D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

MINIMUM CARE LAWN	
— COMMERCIAL OR RESIDENTIAL	175–200 LBS./AC.
— KENTUCKY 31 OR TURF-TYPE TALL FESCUE	95–100% ^a
— IMPROVED PERENNIAL RYEGRASS	0–5%
— KENTUCKY BLUEGRASS	0–5%
HIGH-MAINTENANCE LAWN	
— KENTUCKY 31 OR TURF-TYPE FESCUE	100%
GENERAL SLOPE (3:1 OR LESS)	
— KENTUCKY 31 FESCUE	128 LBS.
— RED TOP GRASS	2 LBS.
— SEASONAL NURSE CROP *	20 LBS.
— CROWNWETCH **	150 LBS./AC.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	
— KENTUCKY 31 FESCUE	108 LBS.
— RED TOP GRASS	2 LBS.
— SEASONAL NURSE CROP *	20 LBS.
— CROWNWETCH **	150 LBS./AC.

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:

FEBRUARY 16TH THROUGH APRIL	ANNUAL RYE
MAY 1ST THROUGH AUGUST 15TH	GERMAN MILLET
AUGUST 16TH THROUGH OCTOBER	ANNUAL RYE
NOVEMBER THROUGH FEBRUARY 15TH	WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWNWETCH EAST OF FARMVILLE, VA. (MAY THROUGH SEPTEMBER USE HULLED SERICEA. ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNWETCH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10–20 LBS./ACRE IN MIXES.

STD & SPEC 3.02
TEMPORARY STONE

CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

THE AREA OF THE ENTRANCE MUST BE EXCAVATED A MINIMUM OF 3 INCHES AND MUST BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBSTRUCTIONABLE MATERIAL. THE FILTER FABRIC UNDERLIER WILL THEN BE PLACED THE FULL WIDTH AND LENGTH OF THE ENTRANCE.

FOLLOWING THE INSTALLATION OF THE FILTER CLOTH, THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. CONVEYANCE OF SURFACE WATER UNDER ENTRANCE, THROUGH CULVERTS, SHALL BE PROVIDED AS REQUIRED. IF SUCH CONVEYANCE IS IMPOSSIBLE, THE CONSTRUCTION OF A "MOUNTABLE" BERM WITH 5:1 SLOPES WILL BE PERMITTED.

THE FILTER CLOTH UTILIZED SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMER FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS, BE MILDWEAR AND ROT RESISTANT, AND CONFORM TO THE PHYSICAL PROPERTIES NOTED IN TABLE 3.02-A.

MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

3.32

LIME AND FERTILIZER

LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTS MAY BE PERFORMED BY THE COOPERATIVE EXTENSION SERVICE SOIL TESTING LABORATORY AT VA 24540 OR BY A REPUTABLE COMMERCIAL LABORATORY. INFORMATION CONCERNING THE STATE SOIL TESTING LABORATORY IS AVAILABLE FROM COUNTY EXTENSION AGENCIES.

UNDER UNUSUAL CONDITIONS WHERE IT IS NOT POSSIBLE TO OBTAIN A SOIL TEST, THE FOLLOWING SOIL ADJUSTMENTS WILL BE APPLIED:

LIME

PIEDMONT AND APPALACHIAN REGION: 2 TONS/ACRE PULVERIZED AGRICULTURAL GRADE LIME (90 LBS./1000 FT.²)

NOTE: AN AGRICULTURAL GRADE OF LIMESTONE SHOULD ALWAYS BE USED.

FERTILIZER

MIXED GRASSES & LEGUMES:

100 LBS./ACRE 10–20–10 OR EQUIVALENT NUTRIENTS (23 LBS./1000 FT.²)

LEGUME STANDS ONLY:

1000 LBS./ACRE 5–20–10 (23 LBS./1000 FT.²) IS PREFERRED; HOWEVER, 1000 LBS./ACRE OF 10–20–10 OR EQUIVALENT MAY BE USED.

GRASS STANDS ONLY:

1000 LBS./ACRE 10–20–10 OR EQUIVALENTS, (23 LBS./1000 FT.²).

OTHER FERTILIZER FORMULATIONS, INCLUDING SLOW-RELEASE SOURCES OF NITROGEN (PREFERRED FROM A WATER QUALITY STANDPOINT), MAY BE USED PROVIDED THEY COMPLY THE SAME AMOUNTS AND PROPORTIONS OF PLANT NUTRIENTS.

MAINTENANCE OF NEW SEEDING

IN GENERAL, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL IT HAS BEEN MAINTAINED FOR ONE FULL YEAR AFTER PLANTING.

IRRIGATION: NEW SEEDINGS SHOULD BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PREVENT EXCESSIVE RUNOFF. INADEQUATE AMOUNTS OF WATER MAY BE MORE HARMFUL THAN NO WATER.

RE-SEEDING: INSPECT SEEDING AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RE-SEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE.

- a. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.
- b. IF A STAND HAS LESS THAN 40% COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. THE SOIL MUST BE TESTED TO DETERMINE IF ACIDITY OR NUTRIENT IMBALANCES ARE RESPONSIBLE.

RE-ESTABLISH THE STAND FOLLOWING SEEDING PREPARATION AND SEEDING RECOMMENDATIONS.

FERTILIZATION: COOL SEASON GRASSES SHOULD BEGIN TO BE FERTILIZED 80 DAYS AFTER PLANTING TO ENSURE PROPER STAND AND DENSITY. WARM SEASON FERTILIZATION SHOULD BEGIN AT 30 DAYS AFTER PLANTING.

APPLY MAINTENANCE LEVELS OF FERTILIZER AS DETERMINED BY SOIL TEST. IN THE ABSENCE OF A SOIL TEST, FERTILIZATION SHOULD BE AS FOLLOWS:

COOL SEASON GRASSES

4 LBS. NITROGEN (N)

1 LB. PHOSPHORUS (P)

2 LBS. POTASH (K)

PER 1000 FT.² YEAR

SEVENTY-FIVE PERCENT OF THE TOTAL REQUIREMENTS SHOULD BE APPLIED BETWEEN SEPTEMBER 1 AND DECEMBER 31st. THE BALANCE SHOULD BE APPLIED DURING THE REMAINDER OF THE YEAR. MORE THAN 1 LB. OF SOLUBLE NITROGEN PER 1000 FT.² SHOULD NOT BE APPLIED AT ANY ONE TIME.

WARM SEASON GRASSES

APPLY 4–5 LBS. NITROGEN (N) BETWEEN MAY 1 AND AUGUST 15th PER 1000 FT.² PER YEAR.

PHOSPHORUS (P) AND POTASH (K) SHOULD ONLY BE APPLIED ACCORDING TO SOIL TEST.

NOTE: THE USE OF SLOW-RELEASE FERTILIZER FORMULATIONS FOR MAINTENANCE OF TURF IS ENCOURAGED TO REDUCE THE NUMBER OF APPLICATIONS AND THE IMPACT ON GROUNDWATER.

SEED QUALITY CRITERIA

WHERE CERTIFIED SEED IS NOT AVAILABLE, THE MINIMUM REQUIREMENTS FOR GRASS AND LEGUME SEED USED IN VEGETATIVE ESTABLISHMENT ARE AS FOLLOWS:

- a. ALL TAGS ON CONTAINERS OF SEED SHALL BE LABELED TO MEET THE REQUIREMENTS OF THE STATE SEED LAW.
- b. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY THAT EMPLOYS A REGISTERED SEED TECHNOLOGIST OR BY A STATE SEED LAB.
- c. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN TWELVE (12) MONTHS.

INCULCANT — THE INCULCANT ADDED TO LEGUME SEED IN THE SEED MIXTURES MAY BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA PREPARED FOR THE SPECIES. INCULCANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. TWICE THE SUPPLIER'S RECOMMENDED RATE OF INCULCANT WILL BE USED ON DRY SEEDINGS; FIVE TIMES THE RECOMMENDED RATE IF HYDROSEEDED.

- a. THE QUALITY OF THE SEED USED SHALL BE SHOWN ON THE BAG TAGS TO CONFORM TO THE GUIDELINES IN TABLE 3.32-E (VA EROSION AND SEDIMENT CONTROL HANDBOOK).

STONE CONSTRUCTION ENTRANCE

CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

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CONSTRUCTION SPECIFICATIONS

Block and Gravel Drop Inlet Sediment Filter

1. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4-inch, 8-inch and 12-inch wide blocks. The barrier of blocks shall be at least 12-inches high and no greater than 24-inches high.
2. b. Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Wire mesh with 1/2-inch openings shall be used.
3. Stone shall be piled against the wire to the top of the block barrier, as shown in Plate 3.07-3.
4. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.

Diagram illustrating the structure of a rectangular concrete block wall or foundation. The structure is shown in cross-section, revealing multiple layers of concrete blocks. Labels indicate the following components:

- DEWATERING (EACH FACE): Points to the vertical faces of the concrete blocks.
- CONCRETE BLOCK: Points to the individual blocks forming the structure.
- YARD INLET CONCRETE TOP NOT SHOWN FOR CLARITY: Points to the top edge of the structure.
- 2:1 SLOPE, GRAVEL FILTER: Points to the sloped area surrounding the structure, indicating the filter material and slope ratio.

-

TYPICAL YARD INLET PROTECTION

- MAINTENANCE:
1. INSPECT ONCE A WEEK AND AFTER EACH RAINFALL.
 2. REMOVE SEDIMENT FROM THE POOL AS NECESSARY TO PROVIDE STORAGE AND MAKE REPAIRS AS NEEDED.
 3. WHEN CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE MATERIAL. BRING TO PROPER GRADE AND COMPACT IT.

GRAVEL and WIRE MESH DROP INLET SEDIMENT FILTER

- A. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. WIRE SHALL BE 1/2" DIA. OR LARGER. IF MORE THAN ONE STRIP OF WIRE IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- B. COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON PLATE 3.07-2. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- C. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND/OR REPLACED.
- NOTE: THIS FILTERING DEVICE HAS NO OVERFLOW MECHANISM. THEREFORE, POSITIVE FLOOD PROTECTION OF THE PROPERTY IS NOT GUARANTEED. THIS TYPE OF DEVICE MUST NEVER BE USED WHERE OVERFLOW MAY ENDANGER AN EXISTING FILL SLOPE. CONSIDERATION SHOULD ALSO BE GIVEN TO THE POSSIBLE EFFECTS OF PONDING ON TRAFFIC, ADJACENT PROPERTY, NEARBY STRUCTURES, WORKING AREAS, ADJACENT PROPERTY, ETC.

ELEVATION OF STAKE AND FABRIC ORIENTATION

DETAIL A

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SOURCE: NORTH CAROLINA SEDIMENT
CONTROL COMMISSION

PLATE 3.7-1

BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

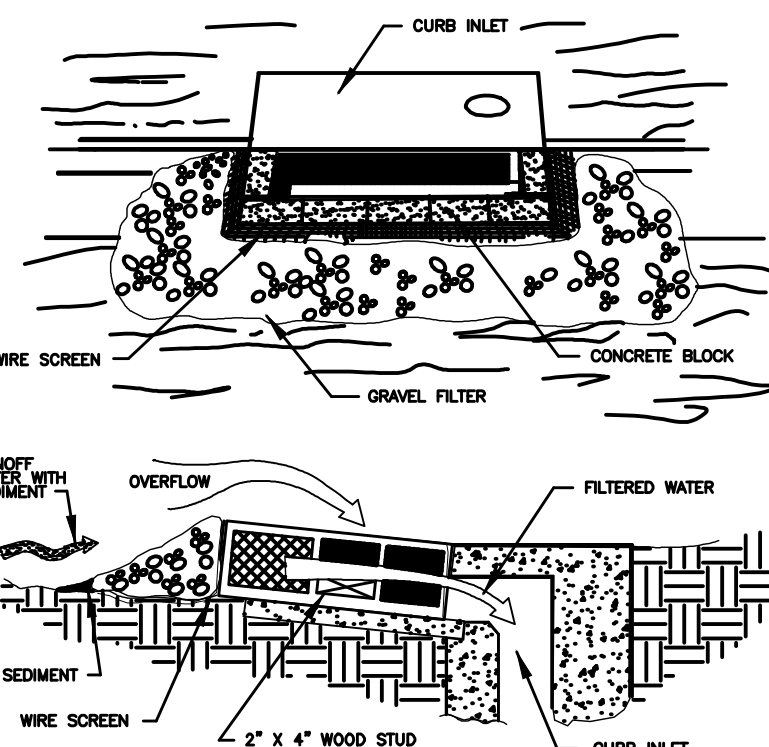
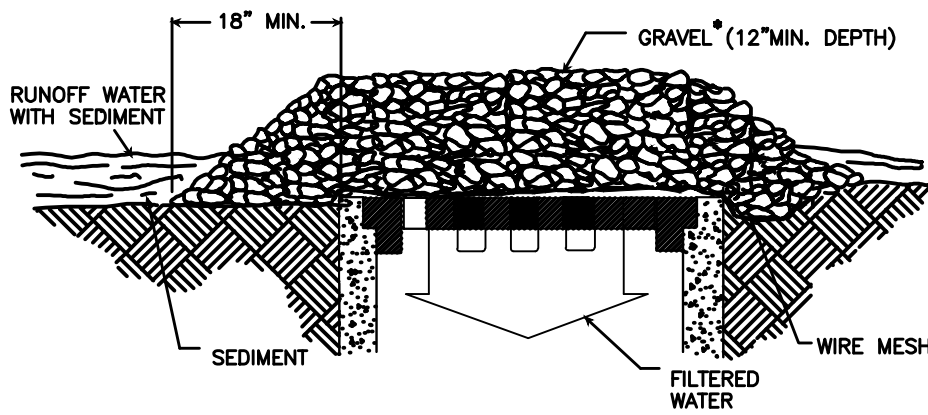


ILLUSTRATION. 3.7-8



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

SOURCE: VA. DSWC

PLATE. 3.7-2

**Smith River Interceptor
Walker Road Extension
Sewer Repair
City of Martinsville
Contract IV**

SEAL



KEY PLAN

SCALE

No.	DATE	BY	Description

No.	DATE	BY	Description
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DRAWN BY MWC

APPROVED BY _____ RSE

CHECKED BY ATA

DATE May, 2017

TITLE

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO. 5050078731

C10

SHEET NO. OF