INDEX OF SHEETS

SHEET NO. DESCRIPTION OF SHEETS SHEET SUB-TOTALS 1 TITLE SHEET 1 2 QUANTITY SHEET 1 3-3A TYPICAL SECTION SHEETS 2 4 RIGHT OF WAY DATA SHEET 1 5 REFERENCE SHEETS 1 6-9 PLAN AND PROFILE SHEETS 4 EC1 - EC4 EROSION CONTROL SHEETS 4 X1-X3 CROSS SECTION SHEETS 3

CHESTERFIELD COUNTY

PROPOSED PLANS FOR

CHESTERFIELD COUNTY

ELIZABETH STREET

FROM: RD. S-134 (ARANT RD.) TO: TERMINI

ELIZABETH STREET
FROM STA. 10+11.00 TO STA. 27+65.11

ENVIRONMENTA	AL PERMIT INF	ORMATION	
USACE PERMIT	YES	<u>X</u> NO	
NEPA DOCUMENT	YES	<u>X</u> NO	
401 CERTIFICATION	YES	_X_NO	
OCRM CAP	YES	_X_NO	
NAVIGABLE WATERSSC	USCG	USACE	_X_N/A

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

CALL 811

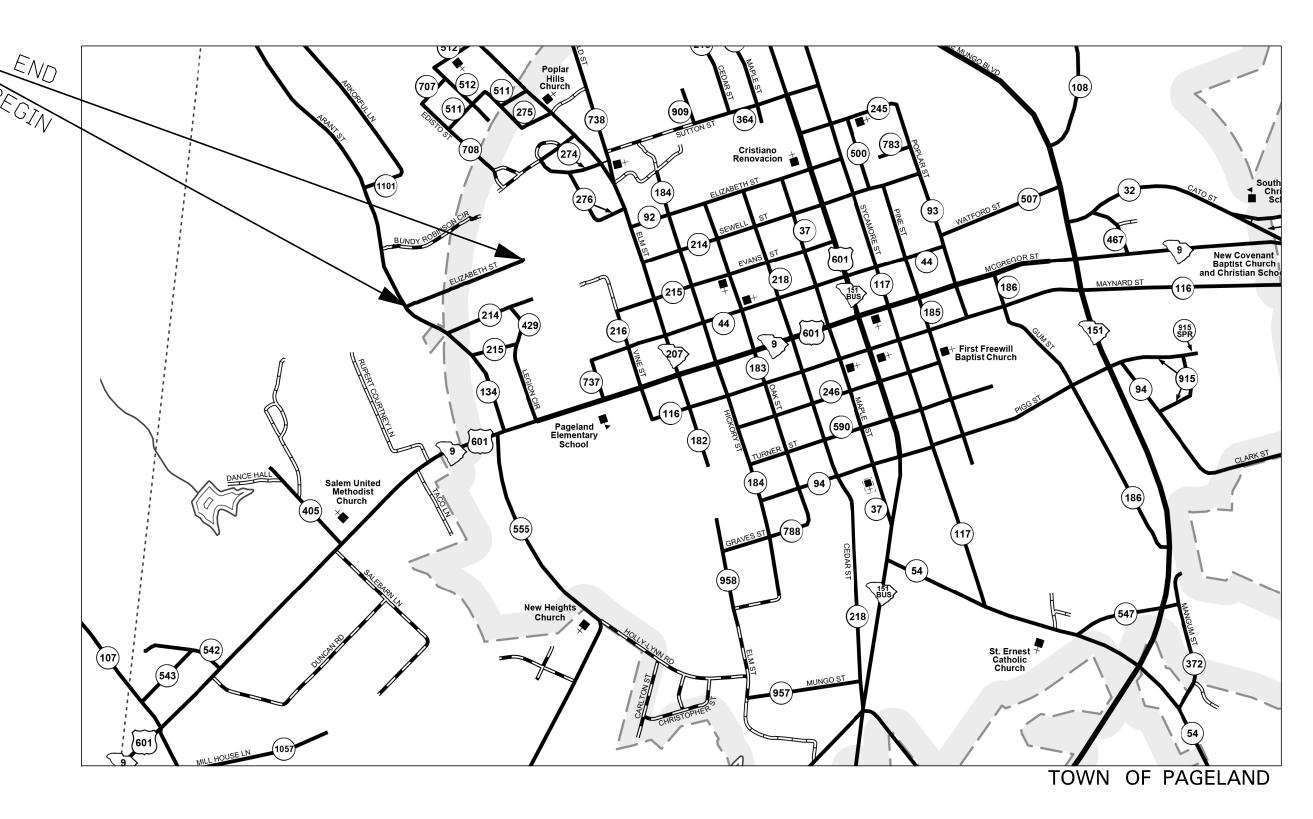
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT? YES / NO

 TRAFFIC DATA

 N/A
 ADT

 ADT
 TRUCKS



LAYOUT

SCALE 1 INCH = 1320 FEET

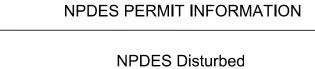
NET LENGTH OF ROADWAY	0.332	MILES
NET LENGTH OF BRIDGES	0.332	MILES
NET LENGTH OF PROJECT	0.222	MILES
	0.332	
LENGTH OF EXCEPTIONS		MILES
GROSS LENGTH OF PROJECT	0.332	MILES

EQUALITIES IN STATIONING

NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

Johnson, Mirmiran & Thompson (JML)



0.000

Area = <u>0.800</u> Acre(s)

Approximate Location of Roadway is

Begin

Latitude 34^46'20.43"

Longitude 80^24'37.18

nd Latitude <u>34^46'26.98"</u>

Longitude 80^24'17.59"

Hydraulic and NPDES Design

Johnson, Mirmiran & Thompson

Designs may be obtained from the

Hydraulic Design Reference for these plans is the:

Edition of SCDOT's "Requirements for Hydraulic Design Studies"

JOHNSON,

MRMIRAN &

THOMPSON,

INC.

No. 3943



PLANS PREPARED BY: 3600 FOREST DRIVE SUITE 102 COLUMBIA, SC 29204 (803) 626-1747



CHESTERFIELD COUNTY SUMMARY OF ESTIMATED QUANTITIES

SHEET NO. NO. 3 S.C. CHESTERFIELD 21-04464-002 ELIZABETH ST.

PAY UNIT

L.S. L.S.

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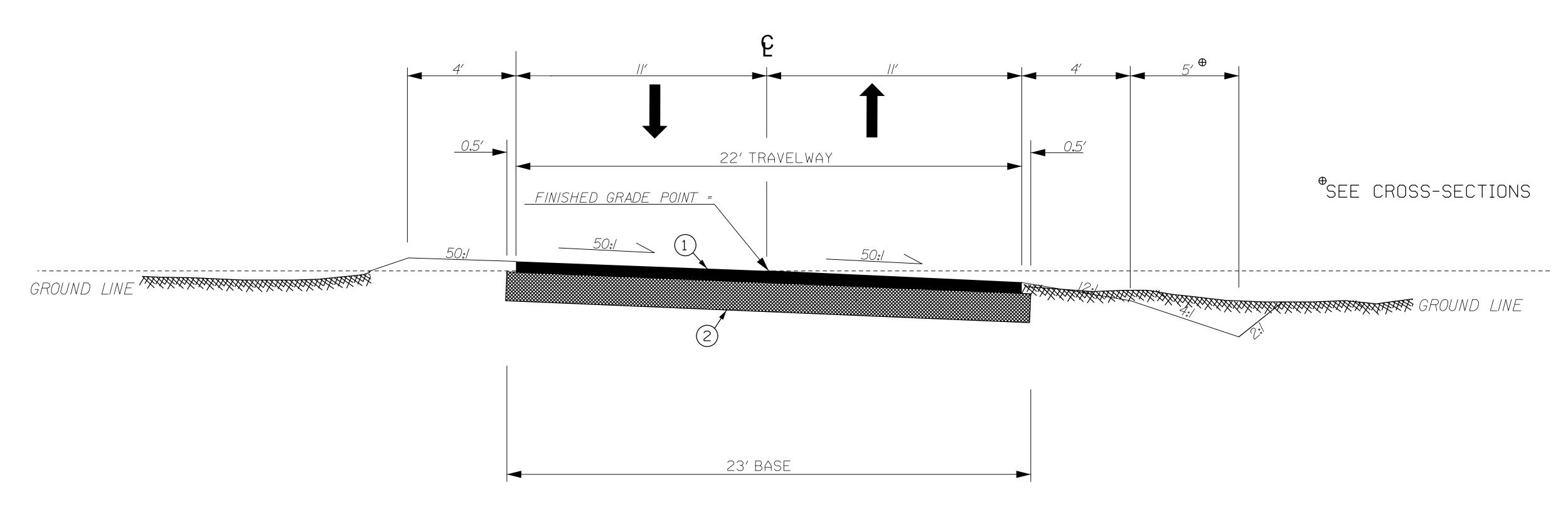
SY

	30			AILD QUAI	VIIILO		
ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT	ITEM NO.	PAY ITEM		QUANTITY
				2023000 REMOVAL AND D 2031000 UNCLASSIFIED E 2033000 BORROW EXCAV 3051200 MACADAM BASE 3063306 CEMENT MODIFIE 3069900 MAINTENANCE S 4010005 PRIME COAT 4030340 HOT MIX ASPHAL 4037220 DRIVEWAY PAVIN 6021120 PERMANENT CO 6250025 24" WH SLD.LINE 6271005 4" WH BRKNLINE 6510105 FLAT SHEET TYP 6531210 U-SEC. POST FOI 7141112 15" RC PIPE CUL. 7141113 18" RC PIPE CUL. 7192240 36" X 36" JUNCTIO 8041010 RIPRAP CLASS "A 8041020 RIPRAP CLASS "A 8042800 GEO/TEX. FOR EF 8071000 RESET FENCE 8103100 TEMPORARY VEO 8151150 TEMP. EROSION 8152007 SEDIMENT TUBE 8153090 REPLACE/REPAIL 8154050 REM./SILT RETAIL	ERUBBING WITHIN RIGHT OF WAY ISPOSAL OF EXISTING PAVEMENT XCAVATION COURSE (6" UNIFORM) ED RECYCLED BASE (6" UNIFORM) ETONE T SURFACE COURSE TYPE C NG -SURFACE TYPE C NSTRUCTION SIGNS (GROUND MOUNTED) -PVT.EDGE-F.D.PNT .THERMO-90 MIL E III, FIXED SIZE R SIGN SUPP. 3P -CLASS III -CLASS III -CLASS III -CLASS III ON BOX " DITCH CHECK RIPRAP B" ROSION CONTROL UNDER RIPRAP (CLASS 2) GATATION GATATION CONTROL BLANKET S FOR DITCH CHECKS R SILT FENCE		1.000 1.000 1.000 1.000 19.000 1298.000 76.000 5580.000 100.000 1507.000 415.000 70.000 96.000 30.000 100.000 18.000 24.000 256.000 84.000 30.000 1.000 160.000 24.000 30.000 41.177 2.090 1240.000 40.000 3310.000 3310.000 828.000 550.000
						JOHNSON, MIRMIRAN & THOMPSON, INC No. 3943	Solution of the state of the st

PLANS PREPARED BY: 3600 FOREST DRIVE SUITE 102 COLUMBIA, SC 29204 (803) 626-1747



TYPICAL SECTION OF IMPROVEMENT CHESTERFIELD COUNTY



USE THIS SECTION ON ELIZABETH STREET STA. 10+11.00 TO STA. 24+00.00

- 1 HOT MIX ASPHALT SURFACE COURSE TYPE C 175 PSY
- 2 *ALT.NO.1 CEMENT MODIFIED RECYLCED BASE (6" UNIFORM)
 ALT.NO.2 MACADAM BASE (6" UNIFORM)
- *NOTE: IF CEMENT MODIFIED RECYLCED BASE IS USED ADD A LEVELING LIFT OF ASPHALT SURFACE COURSE TYPE E @ 45 PSY

MOISTURE-DENSITY RELATIONS OF SOIL-CEMENT MIXTURES (AASHTO T-134)

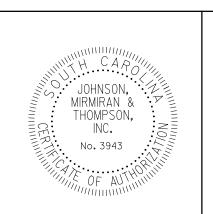
PERCENTAGE OF CEMENT USED 4 %

OPTIMUM MOISTURE CONTENT 9.8 %

METHOD OF MAKING, CURING AND TESTING OF SOIL-CEMENT COMPRESSION SPECIMENS (SC-T-38)

MAXIMUM DRY DENSITY 124.7 per cubic foot

SOIL CEMENT APPLICATION RATE AT <u>4</u> % AT <u>175</u> Ibs/sq.yd AT<u>6</u> in DEPTH







'E	ELIZABET	H ST DESIG	N SPEED	
ð4	MPH	FROM STA.	TO STA.	
	3Ø	1Ø+11.ØØ	24+00.00	
	EXCEPTIO	NS TO DESIGN SP	EED	

ROAD DESIGN CHESTERFIELD COUNTY

Road group designation

for this FAS Rural Route

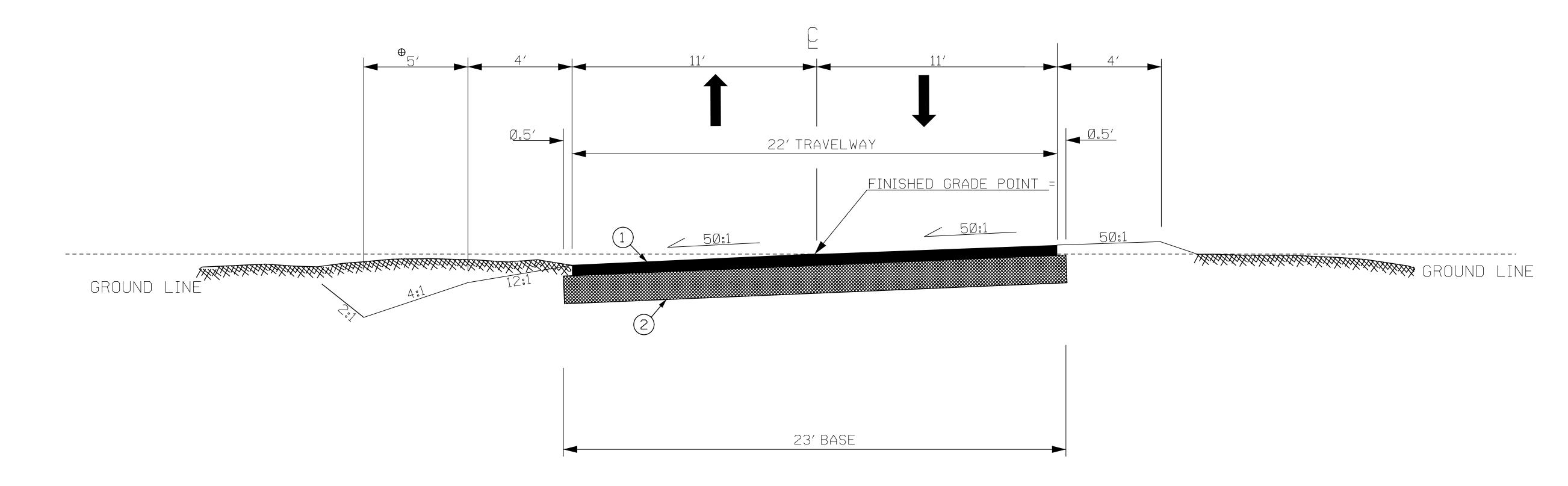
or State "C" Road

per EDM PC-3 is

Group 1

TYPICAL SECTION

SCALE 1"V=NTS SCALE 1"H=NTS RTE./RD.



SEE CROSS-SECTIONS

USE THIS SECTION ON ELIZABETH STREET STA. 24+00.00 TO STA. 27+65.11

- 1 HOT MIX ASPHALT SURFACE COURSE TYPE C 175 PSY
- *ALT.NO.1 CEMENT MODIFIED RECYLCED BASE (6" UNIFORM)

 ALT.NO.2 MACADAM BASE (6" UNIFORM)

*NOTE: IF CEMENT MODIFIED RECYLCED BASE IS USED ADD A LEVELING LIFT OF ASPHALT SURFACE COURSE TYPE E @ 45 PSY

DETERMINATION OF SOIL CEMENT

MOISTURE-DENSITY RELATIONS OF SOIL-CEMENT MIXTURES (AASHTO T-134)

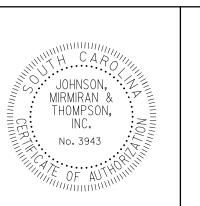
PERCENTAGE OF CEMENT USED 4 %

OPTIMUM MOISTURE CONTENT 9.8 %

METHOD OF MAKING, CURING AND TESTING OF SOIL-CEMENT COMPRESSION SPECIMENS (SC-T-38)

MAXIMUM DRY DENSITY 124.7 per cubic foot

SOIL CEMENT APPLICATION RATE AT 4 % AT 175 lbs/sq.yd AT 6 in DEPTH







	ELIZABET	H ST. DESIG	N SPEED	
1	MPH	FROM STA.	TO STA.	
	3Ø	24+00.00	27+65.11	
	EXCEPTIO	NS TO DESIGN SP	EED	

ROAD DESIGN CHESTERFIELD COUNTY

Road group designation

for this FAS Rural Route

or State "C" Road

per EDM PC-3 is

Group 1

TYPICAL SECTION

SCALE 1"V=NTS SCALE 1"H=NTS RTE./RD.

CHESTERFIELD COUNTY RIGHT-OF-WAY DATA SHEET

TRACT					0	A BTAIN		REMAINDER	REMAINDER			OUTEAU DITOU		DRAINAGE	EROSION	FNTRANCE		
NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES	OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL	LEFT B ACRES	RIGHT B ACRES	DATE ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION (YES)	SLOPE PERMISSION (YES)	STRUCTURE PERMISSION (YES)	CONTROL PERMISSION (YES)	ENTRANCE CONSTRUCTION PERMISSION (YES)	REMARKS	
/	RUSSELL CHAPMAN & TONYA CHAPMAN	020-000-000-130	0.52															
2	JUAN T.PERALTA	020-000-000-131	0.46															
3	RICHARD F.MILLER & DOROTHY J.MILLER	020-000-000-132	0.46															
4	BRIANNA LOWDER & MASON LOWDER	020-000-000-133	0.46															
5	JEREMY D. DUNLAP & SHAKIKA L. DUNLAP	020-000-000-134	0.46															
6	TAYAH HANCOCK	020-000-000-135	0.46															
7	CARMEN HERNANDEZ & MARIA HERNANDE	7 020-008-001-018	0.46															
8	JLJ SERVICES LLC	020-008-001-017	0.46															
9	TWANNA BLAKENEY	020-008-001-016	0.46															
10	TWANNA BLAKENEY	020-008-001-015	0.46															
//	MARQUITA BLAKENEY	020-008-001-014	0.46															
12	PAULETTE LANEY & ROGER LANEY	020-008-001-013	0.46															
13	ROGER LANEY BLAKENEY & PAULETTE LANE	Y 020-008-00I-0I2	0.46															
15	CHUCKY ROBINSON & REGINA ROBINSON	031-001-009-006	0.92												1			
16	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-005	0.46															A
<i>17</i>	DAMIAN JAMAAL RATLIFF	031-001-009-004	1.12															TO ANI
18	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-008	1.51															OB'
19	RALPHEAS D. BLAKENEY & TIA J. RATLIFF	031-001-009-003	0.60												T			RUI ACI SHI
20	MONICA BLAKENEY & MARTY BLAKENEY	031-001-009-007	0.61															B SH LE
21	JERAN MILLER	031-001-009-002	0.58												T			
22	KIRKLEY W. O'NEIL & PAULA V. O'NEIL	031-001-009-001	0.95															
23	DALTON KYLE PRICE & LUISA R. PRICE	020-008-001-009	0.64															
24	DALTON KYLE PRICE & LUISA R. PRICE	020-008-001-009	0.65															
25	SYDELLE L.BROWN	020-008-001-008	0.70															
	ADRIAN JOCK WILLIAMS & PATRA WILLIAMS	020-008-001-007	0.66															
	CASTILLO JUAN ALEJANDRO & MERCEDES ALEJANDRO	020-008-001-006	0.667															
28	JLJ SERVICES LLC	020-008-001-005	0.67															
29	TRIONDA S.MUNGO	020-008-001-004	0.46															
	JESSICA MCBRIDE	020-000-000-129	0.46															
	CAROLYN CREDLE	020-000-000-128	0.46															
	MICHELLE BALLARD	020-000-000-127	0.46															
33	DAVID MARTINEZ	020-000-000-126	0,55										YES		<u> </u>			
															1			

TOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES. OBTAINS WILL BE SHOWN IN SQUARE FEET AND ACRES. ACRES WILL BE SHOWN IN PARENTHESES UNDER SQUARE FEET. IN RURAL AREAS OBTAINS MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY.

SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

REVISIONS

DATE	TRACT NO.	REMARKS	DATE	TRACT NO.	REMARKS

ELIZABETH ST.

Chain ELIZABETH contains: 200 CUR ELIZABETH1 CUR ELIZABETH2 201

Beginning chain ELIZABETH description ______

Point 200

N 1,069,870.4303 E 2,177,084.8687 Sta

10+00.00

Course from 200 to PC ELIZABETH1 N 50° 57′ 08.81″ E Dist 4.0465

Curve Data ×----×

		××	
Curve ELIZABETH1			
P.I. Station	10+42.85 N	1,069,897.4244 E	2,177,118.1471
Delta =	17° 38′ 43.66′′ (RT)		
Degree =	22° 55′ 05.92′′		
Tangent =	38.8036		
Length =	76.9929		
Radius =	250.0000		
External =	2.9935		
Long Chord =	76.6889		
Mid.Ord. =	2.9581		
P.C. Station	10+04.05 N	1,069,872.9794 E	2,177,088.0113
P.T. Station	10 + 81.04 N	1,069,911.5842 E	2,177,154.2749
C.C.	N 1,069,678.8236	E 2,177,245.5026	
Back = N	50° 57′ 08.81′′ E		
Ahead = N	68° 35′ 52.47′′ E		
Chord Bear = N	59° 46′ 30.64′′ E		

Course from PT ELIZABETH1 to PC ELIZABETH2 N 68° 35′ 52.47′′ E Dist 1,176.4950

Curvo Data

			Curve Data	
Curve ELIZAI	BETH2		××	
P.I. Station		22+60.75 N	1,070,342.0750 E	2,178,252.6400
Delta	=	1° 05′ 07.14′′ (LT)		
Degree	=	16° 51′ 06.12′′		
Tangent	=	3.2203		
Length	=	6.4404		
Radius	=	340.0000		
External =		0.0153		
Long Chord	=	6.4403		
Mid.Ord. =		0.0152		
P.C. Station		22+57.53 N	1,070,340.8999 E	2,178,249.6417
P.T. Station		22+63.97 N	1,070,343.3067 E	2,178,255.6154
C.C.		N 1,070,657.4543	E 2,178,125.5721	
Back	= N	68° 35′ 52.47′′ E		
Ahead	= N	67° 30′ 45.33′′ E		
Chord Bear	= N	68° 03′ 18.90′′ E		

Course from PT ELIZABETH2 to 201 N 67° 30′ 45.33′′ E Dist 501.1312

Point 201

N 1,070,534.9796 E 2,178,718.6424 Sta 27+65.11

______ Ending chain ELIZABETH description

SURVEY GROUP:

ROAD/ROUTE: ELIZABETH STREET PIN / PRJ ID: 21-04464-002

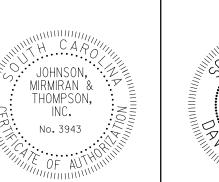
CHARGE CODE: COUNTY: CHESTERFIELD

ALIGNMENT	NORTHING	EASTING	ELEV	DESC
1	1070531.663	2178646.703	637.073	PSC
1B	1070531.611	2178646.68	637.01	PSC
1C	1070531.621	2178646.71	636.95	PSC
1 E	1070531.680	2178646.70	637.04	PSC
2	1070295.68	2178186.28	640.35	PSC
2 E	1070295.713	2178186.27	640.38	PSC
3	1070103.373	2177592.27	622.47	PSC
3B	1070103.35	2177592.22	622.44	PSC
3C	1070103.316	2177592.26	622.45	PSC
3 E	1070103.38	2177592.28	622.47	PSC
4	1069828.071	2177091.46	621.73	PSC
4B	1069828.032	2177091.45	621.66	PSC
4C	1069828.039	2177091.43	621.63	PSC
4 E	1069828.065	2177091.45	621.75	PSC
50	1068254.091	2178285.71	665.73	PSC
50 E	1068254.063	2178285.74	665.73	PSC

CURVE DATA

CURVE ELIZABETH1 PI 10+42.85 N 1,069,897.4244 E 2,177,118.1471 ~ 17° 38′ 44" (RT) D 22° 55′ 06″ 250.00 Lc 76.99 T 38.80 Superelevation = Remove Crown CURVE ELIZABETH2 PI 22+60.75 N 1,070,342.0750 E 2,178,252.6400 ′- 1° 05′ 07″ (LT) D 16° 51′ 06″ R 340.00 Lc 6.44 T 3.22

Superelevation = Remove Crown



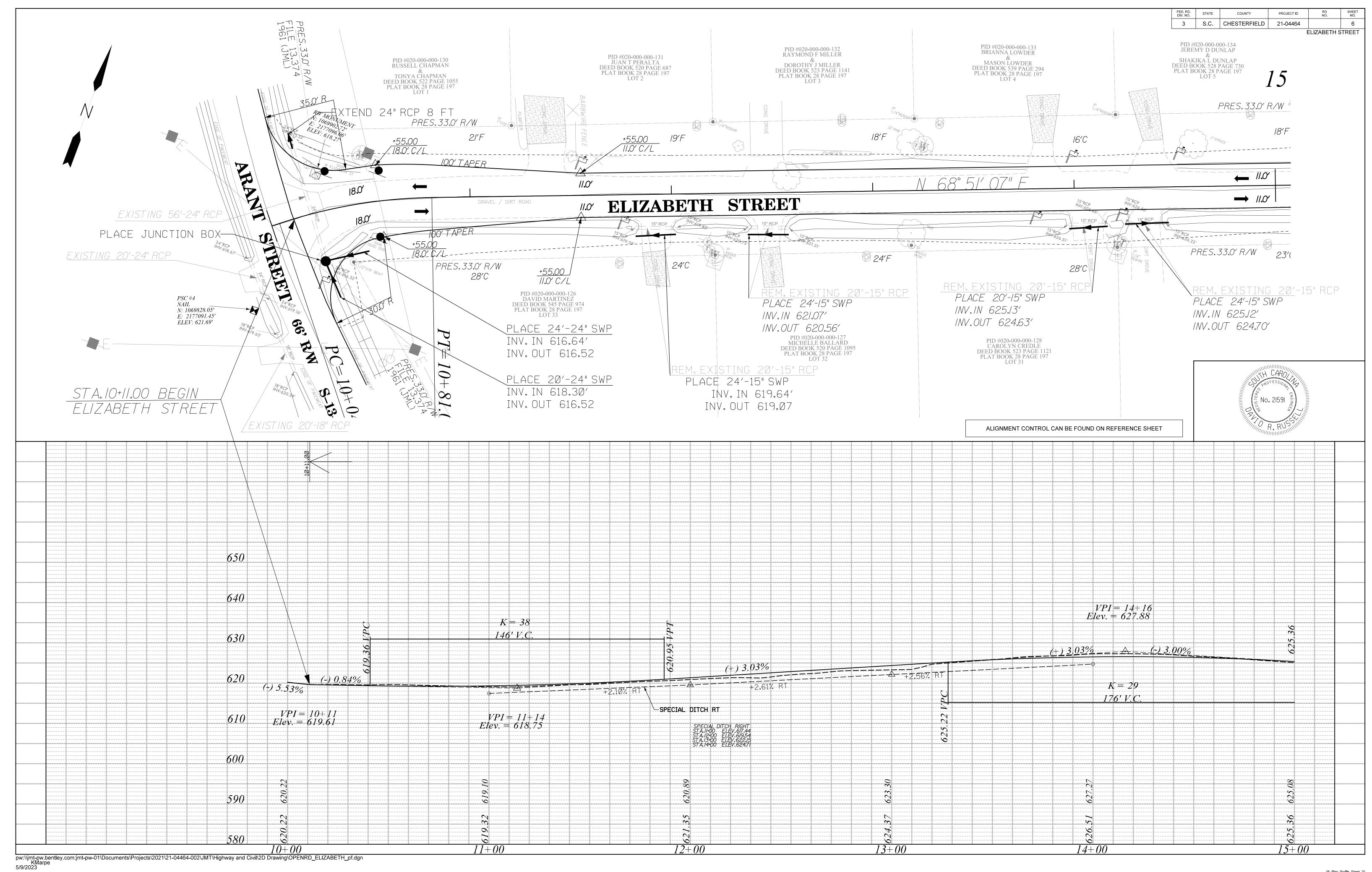


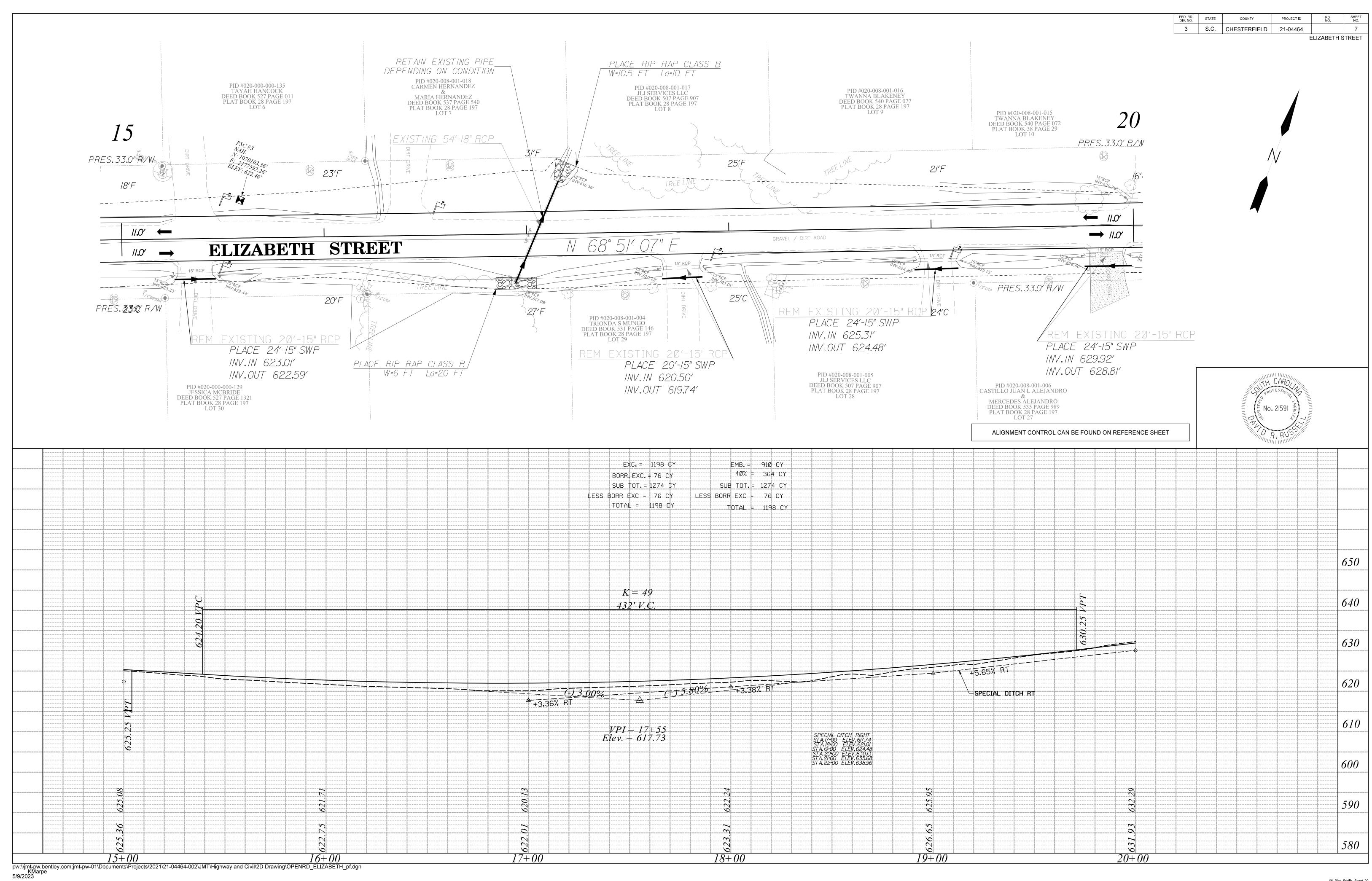


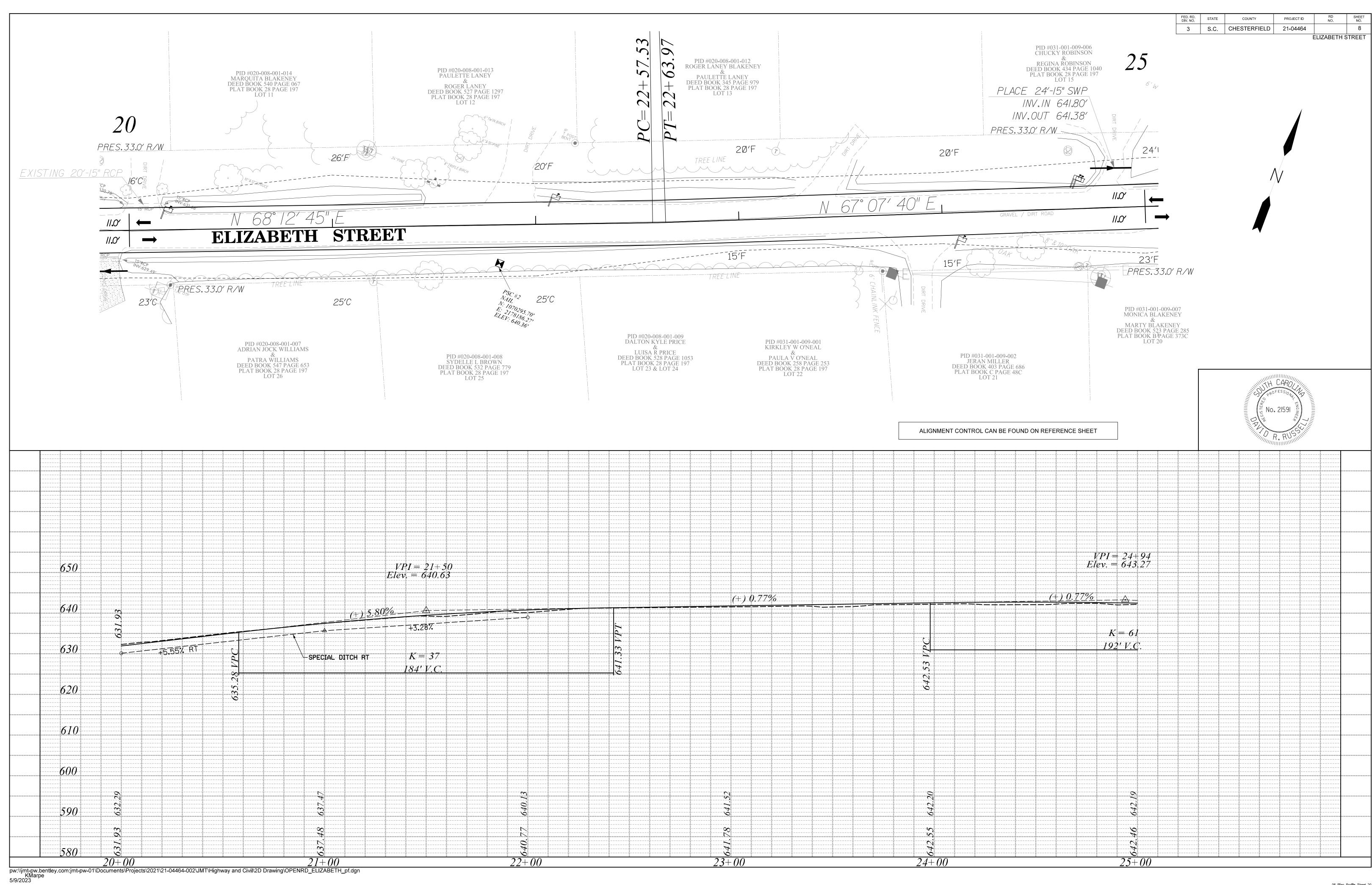


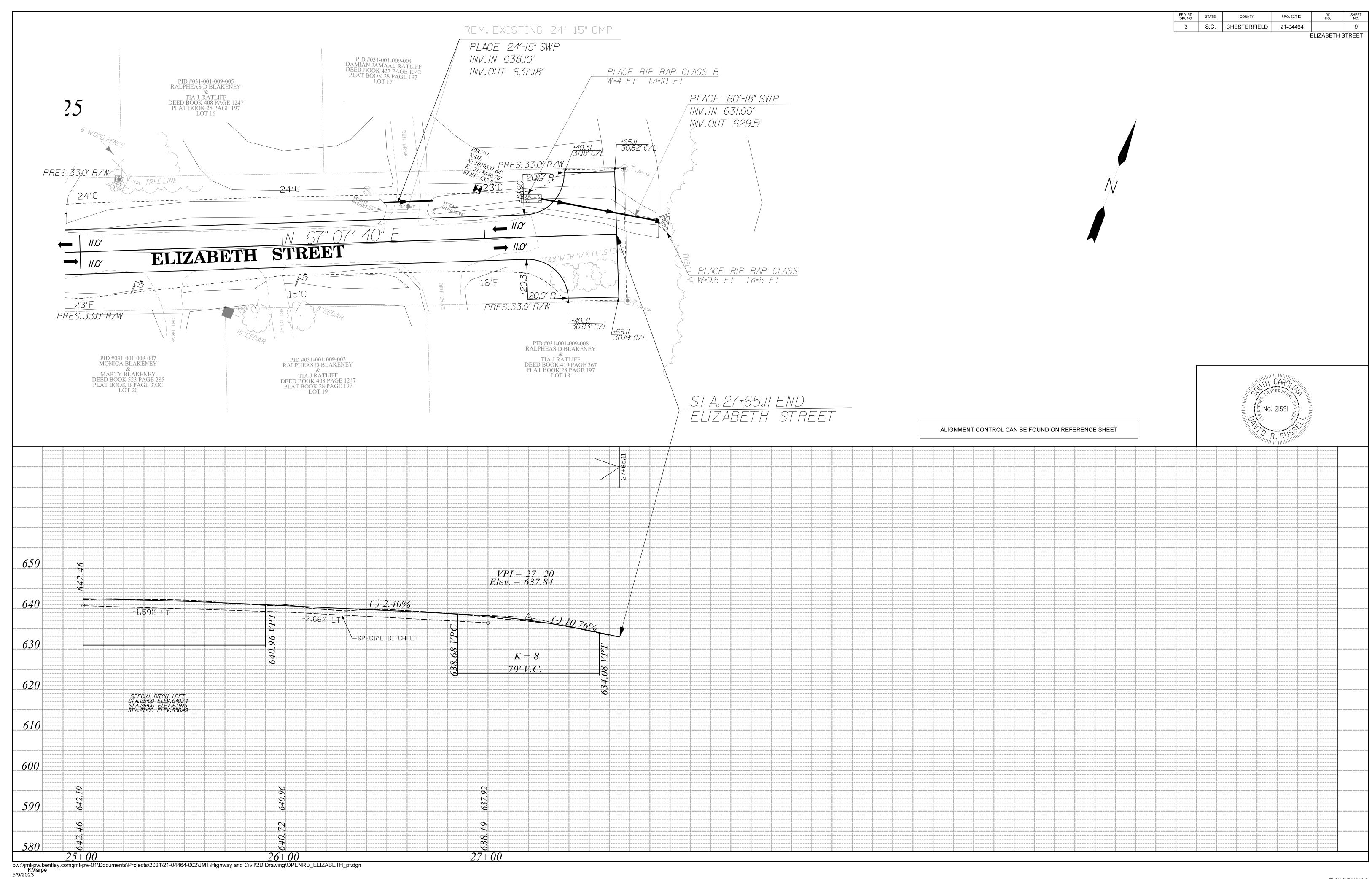
CHESTERFIELD COUNTY

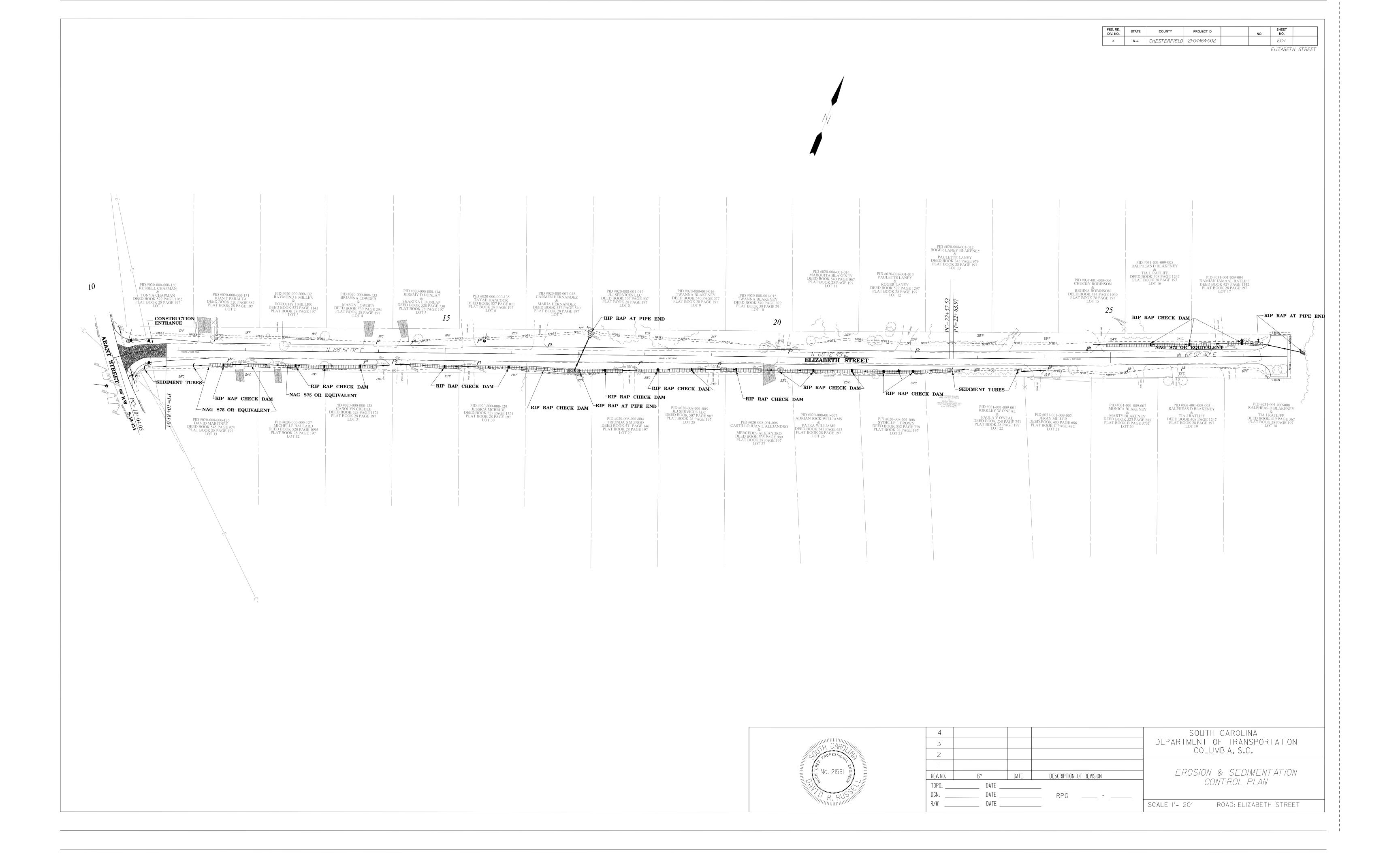
REFERENCE DATA











EROSION AND SEDIMENTATION CONTROL NOTES

FED.RD. DIV.NO	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002		EC-2

ELIZABETH ST

EROSION AND SEDIMENTATION CONTROL GENERAL

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING.IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
- ? WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
- ? WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY. OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER. AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED
- BACK INTO ANY WATERS OF THE STATE. 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED
- ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN $\frac{1}{2}$ T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10.LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES
- 11. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12.INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13.MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE
- TOPSOIL. UPDATED 2/6/13 14.MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO
- 15.MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO. PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING
- 17.AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE
- 18.IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC32 S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19.A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS CHESTERFIELD COUNTY HAS APPROVED OTHERWISE.
- 20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY CHESTERFIELD COUNTY AND SCDHEC.
- 21.A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH CHESTERFIELD COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVAL LETTER FROM SCDHEC BEFORE CALLING CHESTERFIELD COUNTY AT 843-623-2464 TO SCHEDULE THIS
- 22. PORTABLE TOILET FACILITIES SHALL NOT BE LOCATED WITHIN 20 FEET OF ANY STORM WATER STRUCTURE AND/OR 50 FEET OF ANY WATER COURSE, WETLAND AREA, STREAM, FLOODPLAIN, OR LAKE.

CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCE ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN

ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE UNITED TO THOSE AREAS DESCRIBED IN EACH STAGE.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, OR REVISIONS TO THE OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISION FROM THE JURIDICTIONAL CONSERVATION DISTRICT. RUNOFF ACCUMULATING IN EXCAVATED AREAS SHALL EITHER REMAIN IN THE EXCAVATED AREA IN ORDER TO INFILTRATE THE RUNOFF, OR BE DIRECTED TO AN APPROVED E&S CONTROL MEASURE TO ENSURE RUNOFF IS TREATED BEFORE LEAVING THE DISTURBED SITE OR WILL BE INFILTRATED BACK INTO THE GROUND. E&S CONTROL BMPS WILL BE MAINTAINED TO PERFORM AS DESIGNED IN THESE INSTANCES. CONSTRUCTION ACTIVITIES WITHIN EACH STAGE MAY OVERLAP IF WORK WITHIN EACH AREA IS CARRIED OUT IN SEQUENCE.

EACH STAGE OF THE SEQUENCE OF CONSTRUCTION MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF CONSTRUCTION.

NOTE: PRIOR TO ANY GRADING, CREEK BOUNDARIES AND TOP OF BANK ARE TO BE FIELD DELINEATED AND STAKED WITH ORANGE CONSTRUCTION FENCE TO AVOID DISTURBANCE.

- ALL BLASTING ACTIVITY, IF REQUIRED, SHOULD BE DONE IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR SHOULD NOTIFY OWNER AND ALL REGULATORY AGENCIES IN WRITING AND OBTAIN ANY NECESSARY PERMITS PRIOR TO ANY BLASTING ACTIVITIES. SITE CONSTRUCTION - GENERAL
- 1. CONDUCT PRE-CONSTRUCTION MEETING. LOCAL DHEC EQC OFFICE SHALL BE NOTIFIED 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
- 2. FIELD MARK EXISTING UTILITIES AND LIMITS OF DISTURBANCE PRIOR TO EARTH DISTURBANCE. 3. INSTALL ROCK CONSTRUCTION ENTRANCE BEFORE INITIAL DISTURBANCES. ALL VEHICLES ENTERING THE SITE SHALL DO SO
- VIA THE ROCK CONSTRUCTION ENTRANCE. 4. INSTALL PERIMETER SUPPORTED SILT FENCE DOWNSLOPE OF PROPOSED CONSTRUCTION ACTIVITY AT LOCATIONS INDICATED. PLACE SILT FENCE ON LEVEL GRADE WHERE POSSIBLE. CARE SHOULD BE TAKEN TO PROTECT THE STREAM AND WETLANDS FROM ANY SEDIMENT POLLUTION. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE COURSE OF CONSTRUCTION, MAKING INSPECTIONS AFTER EACH RAINFALL EVENT AND MAKING ANY NECESSARY REPAIRS.
- 5. EARTH AND TOPSOIL TO BE RETAINED ON THE SITE SHALL BE STOCKPILED IN THE WITHIN THE LIMITS OF DISTURBANCE AS APPROVED BY THE ENGINEER OR OFF-HAULED. IMMEDIATELY INSTALL SILT FENCE AROUND STOCKPILES, SOW TEMPORARY SEED AND MULCH STOCKPILES TO ENSURE PROTECTION AGAINST
- SEDIMENT RUNOFF FROM THE TOPSOIL STOCKPILE 6. LIMIT CLEARING, GRUBBING AND TOPSOIL STRIPPING TO THE IMMEDIATE AREA REQUIRED TO CONSTRUCT ROADSIDE DITCHES
- AND INSTALL STORM SEWER SYSTEM. 7. EXCAVATE AND CONSTRUCT ROADSIDE DITCHES AND STONE TRENCHES WHERE SHOWN ON THE PLANS. IMMEDIATELY ADD PERMANENT TOPSOIL, AND SEED. STABILIZE IMMEDIATELY WITH DITCH LINING AND PLACEMENT OF TEMPORARY SEDIMENT TUBES AND ROCK SEDIMENT DIKE AS SHOWN ON THE PLANS. PROTECT STONE TRENCH FROM SILT BUILD-UP AND COMPACTION, CONSTRUCT STORM SEWER SYSTEM, DRIVEWAY CULVERTS AND OUTLET PROTECTION TO LINES AND GRADES AS SHOWN ON THE PLANS. WORK SHALL BEGIN AT THE OUTLET AND WORK UPSTREAM. REMOVE EXISTING CULVERTS WHERE SHOWN ON THE PLANS.
- 8. AT ALL TIMES, MAINTAIN TEMPORARY INGRESS AND EGRESS ACCESS TO ADJACENT PROPERTIES. 9. ROUGH GRADE SUBGRADE TO PLAN LINE AND GRADES. EXCESS
- MATERIAL TO BE HAULED OFF-SITE. 10. PLACE AND COMPACT BASE MATERIAL AND INSTALL PAVING FABRIC, IF CALLED FOR IN THE PLANS. 11.PLACE ASPHALT CONCRETE SURFACE COURSE ON ROAD AND AT
- EXISTING DRIVEWAYS. DRIVEWAYS TO MAINTAIN EXISTING WIDTH AND BE PAVED TO THE RIGHT-OF-WAY-LINE. 12. FINAL GRADE SHOULDER AND RELOCATE MAIL BOXES AS 13. PROVIDE REMAINING PERMANENT SEEDING AND MULCHING.
- COMPLETE ALL ON-SITE IMPROVEMENTS AND PERFORM AND
- 15. UNTIL SUCH TIME AS THE SITE IS PERMANENTLY STABILIZED, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL MAINTAINED IN WORKING ORDER. MAINTENANCE SHALL INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS.
- 16. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.
- 17. CONTACT CHESTERFIELD COUNTY FOR FINAL INSPECTION AND CLOSE OUT OF PROJECT 18. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS,
- REMOVE THE TEMPORARY BMPS. 19. IMMEDIATELY REPAIR AND STABILIZE ANY AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY BMPS.

INSPECTION AND MAINTENANCE PLAN

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS
- 2. CONSTRUCTION EQUIPMENT SHALL NOT BE STORED OVERNIGHT OR FUELED ON SITE WITHOUT THE CONSENT OF THE COUNTY.

INSPECTION AND MAINTENANCE

- a. INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 5% -INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE
- FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING. 6. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.
- c. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE
- d. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE. e. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE
- NO LONGER NEEDED f. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.
- ROCK DITCH CHECK. a. INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 5%4 -INCHES OR MORE OF PRECIPITATION. 6. INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION.
- c. INSPECT ROCK CHECK DAM EDGES FOR EROSION AND REPAIR PROMPTLY AS REQUIRED.
- d. REMOVE SEDIMENT WHEN IT REACHES 1/3 THE ORIGINAL CHECK HEIGHT. e. IN THE CASE OF GRASS-LINED DITCHES AND SWALES, REMOVE ROCK CHECK DAMS WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN
- f. AFTER CONSTRUCTION IS COMPLETE, REMOVE STONE IF VEGETATION IS USED FOR PERMANENT STABILIZATION.
- g. SEED AND MULCH THE AREA BENEATH THE ROCK DITCH CHECKS IMMEDIATELY AFTER DAM REMOVAL.

- a. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS
- 6. INSPECT EVERY 7-DAYS AND WITHIN 24-HOURS OF A RAINFALL EVENT
- OF Ø.5-INCHES OR GREATER. c. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT
- d. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.
- e. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS.
- f. REMOVE SEDIMENT TUBES FROM THE SITE WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS, INERT
- g. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

- STABILIZED CONSTRUCTION ENTRANCE.

 a. INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 5 -INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE.
- 6. CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY c. MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS. RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND
- RUNOFF CONTROL. d. WASH OR REPLACE STONES AS NEEDED.
- TEMPORARY SEDIMENT TRAP a. REMOVE SEDIMENT WHEN IT REACHES 50 PERCENT OF STORAGE VOLUME OR TOP OF CLEANOUT STAKE.
- b. INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 5 INCHES OR MORE OF PRECIPITATION. c. REMOVE ALL TEMPORARY SEDIMENT TRAPS WITHIN 30 DAYS AFTER
- FINAL SITE STABILIZATION IS ACHIEVED OR AFTER IT IS NO LONGER d. REMOVE TRAPPED SEDIMENT FROM THE SITE, OR STABILIZED ON SITE.
- e. PERMANENTLY STABILIZED DISTURBED AREAS RESULTING FROM THE REMOVAL OF SEDIMENT TRAPS.

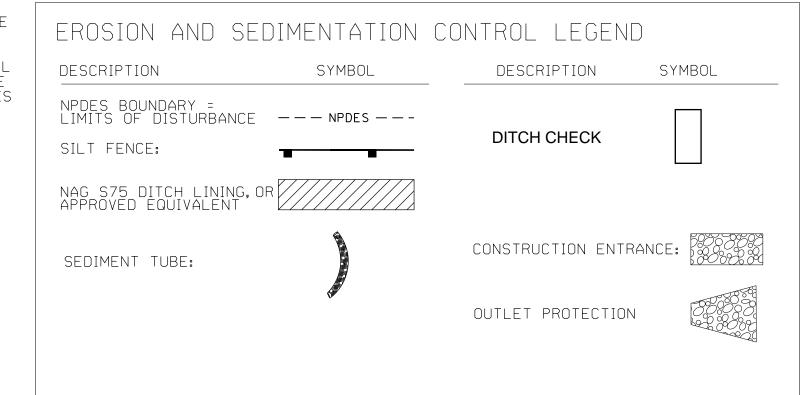
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES. ANY CLEARING AND GRUBBING, EXCEPT WHAT IS NECESSARY TO ESTABLISH SEDIMENT CONTROL DEVICES SHALL NOT BEGIN UNTIL ALL SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND HAVE BEEN STABLIZED. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.

NPDES PERMIT REQUIREMENTS

- 1. THE PERMITTEE OR CO-PERMITTEE SHALL CONTACT THE PERMIT ISSUING AGENCY AT LEAST SEVEN DAYS PRIOR TO THE START OF CONSTRUCTION TO DETERMINE IF A PRE-CONSTRUCTION MEETING IS
- 2. THE PERMITTEE AND THE CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND AFTER EACH PRECIPITATION EVENT BY QUALIFIED PERSONNEL TOASSURE THE EFFECTIVE OPERATION OF BMP'S. A WRITTEN ACCOUNT OF EACH INSPECTION AND THE CORRECTIVE ACTION TAKEN MUST BE KEPT ON SITE.

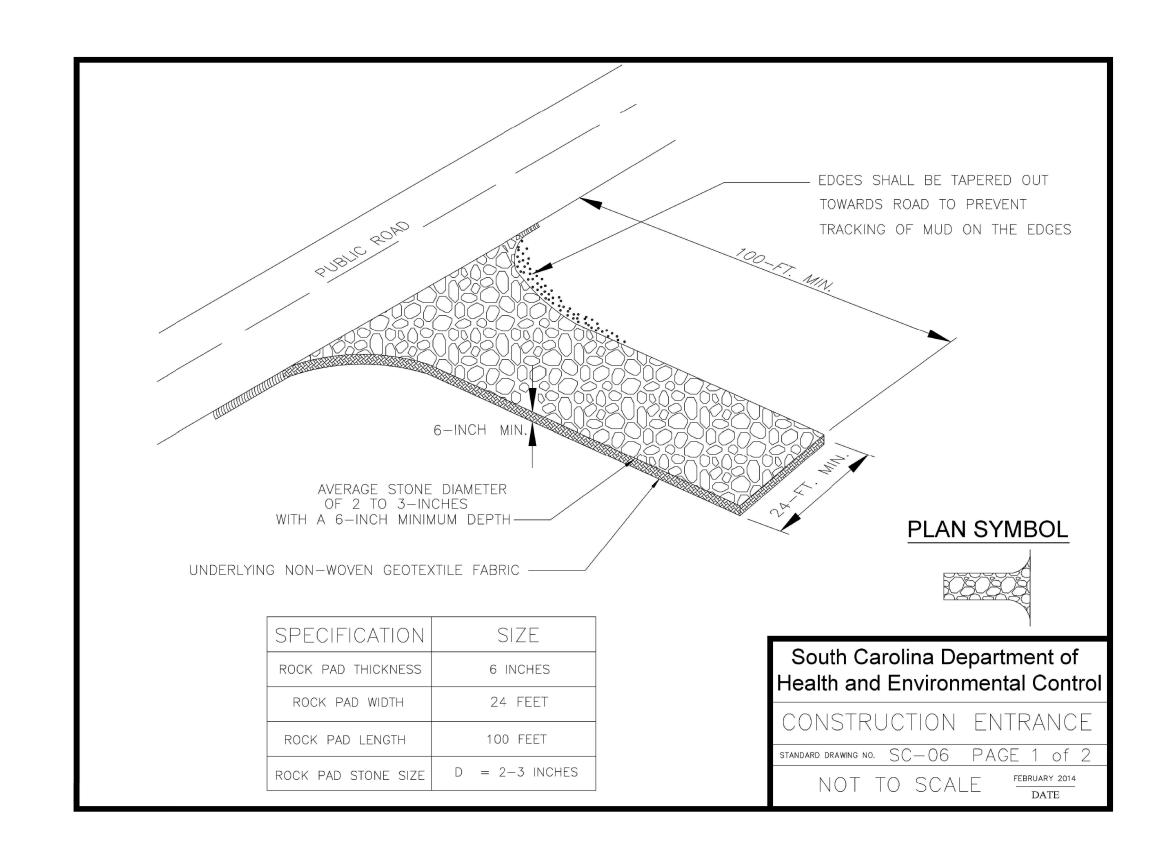
 3. WHERE BMP'S ARE FOUND TO BE INOPERATIVE OR HAVE FAILED THE
- PERMITTEE OR CO- PERMITTEE SHALL CONTACT THE PERMIT ISSUING AGENCY IMMEDIATELY, FOLLOWED BY A WRITTEN REPORT WITHIN FIVE
- DAYS OF INITIAL CONTACT. 4. THE PERMITTEE AND CO-PERMITTEE SHALL RETAIN RECORDS OF ALL MONITORING INFORMATION INCLUDING INSPECTION REPORTS AS REQUIRED BY THIS PERMIT FOR A PERIOD OF THREE YEARS
- FROM THE DATE OF THE TERMINA TION OF COVERAGE UNDER THIS PERMIT. 5. THE PERMITTEE AND CO-PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE ORPREVENT ANY DISCHARGE THAT HAS REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT IN VIOLATION OF THIS PERMIT.
- 6. UPON REDUCTION, LOSS OR FAILURE OF A BMP, THE PERMITTEE AND CO-PERMITTEE SHALL TAKE IMMEDIATE ACTION TO RESTORE THE BMP TO NORMAL OPERAT ION OR PROVIDE AN ALTERNATIVE BMP SHALL BE
- EMPLOYED AND THE PERMIT ISSUING AGENCY CONTACTED 7. THE PERMITTEE AND CO-PERMITTEE MUST COMPLY WITH ALL TERMS AND CONDITIONS OF THE NPDES PERMIT. ANY PERMIT NONCOMPLIANCE MAY BE GROUNDS FOR ENFORCEMENT ACTION. THE PERMITTEE AND CO-PERMITTEE MAY BE SUBJECT TO CRIMINAL AND/OR CIVIL PENALTIES FOR VIOLATIONS OF THE TERMS AND CONDITIONS OF THIS
- PERMIT 8. THE OWNER OR OPERATOR OF THIS FACILITY COVERED BY THIS PERMIT SHALL MAKE THE PLANS AVAILABLE TO THE PUBLIC IF REQUESTED. EROSION AND SEDIMENT CONTROL PLANS MUST BE MADE AVAILABLE AT THE SITE AT ALL TIMES.
- 9. THE STAGING OF EARTH DISTURBANCE ACTIVITIES AND MAINTENANCE REQUIREMENTS CONTAINED IN THE E&S PLAN MUST BE FOLLOWED. UNLESS
- AMENDED AND APPROVED BY THE COUNTY OR DEP. 10. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT REGULATIONS. NO MATERIALS MAY BE BURIED, DUMPED, OR DISCHARGED ON SITE.
- 11. AN EROSION AND SEDIMENT POLLUTION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED FOR ALL OFF- SITE SPOIL AND BORROW AREAS. AREAS THAT ARE OUTSIDE OF THE ORIGINAL PERMIT BOUNDARIES OR NOT COVERED BY ANOTHER NPDES PERMIT WILL BE CONSIDERED A MAJOR REVISION TO THE PERMIT.

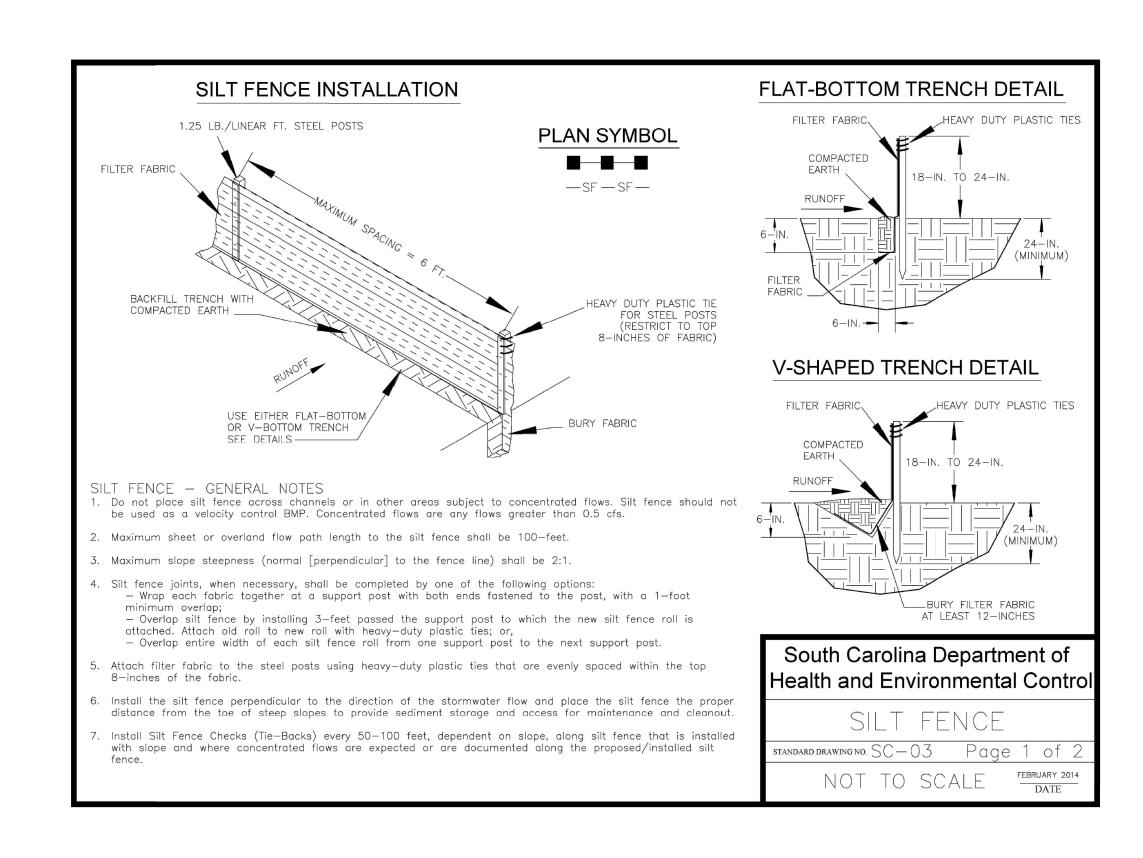


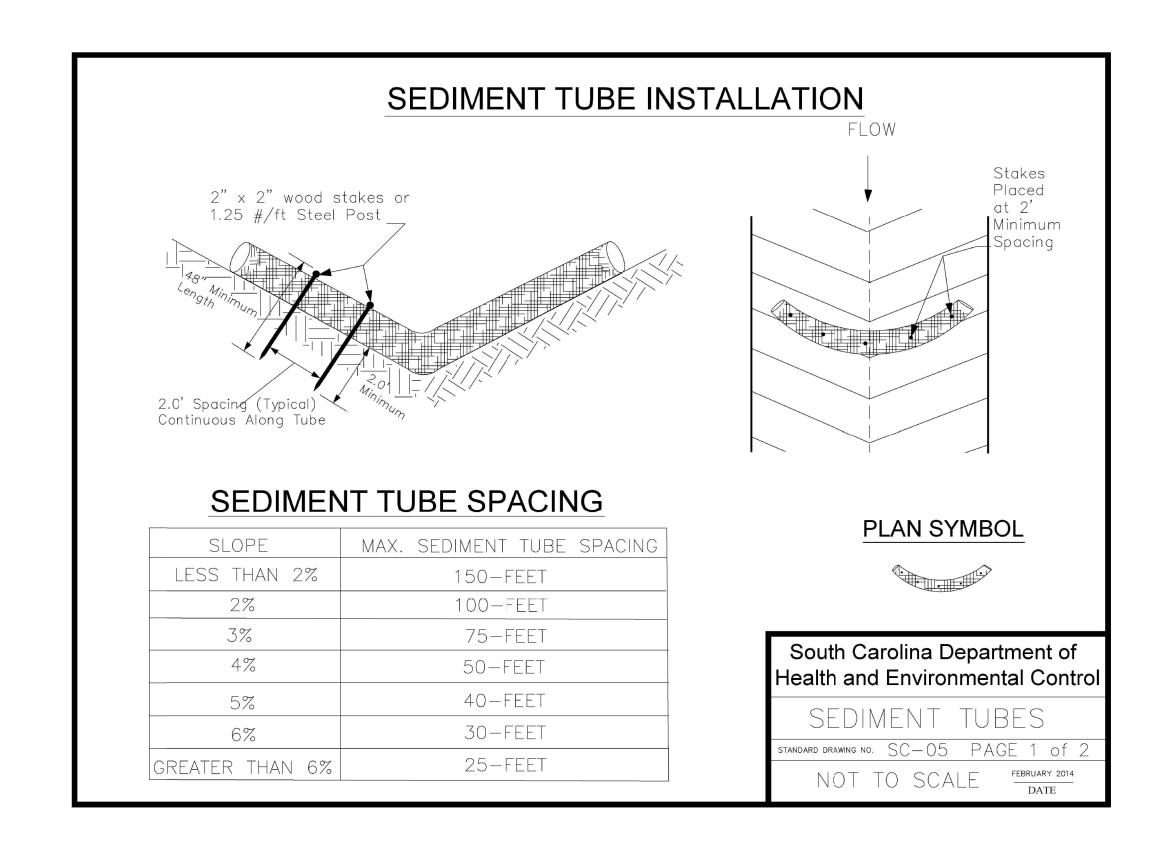
EROSION AND SEDIMENTATION CONTROL DETAILS

FED.RD. DIV.NO	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-002		EC-3

ELIZABETH STREET



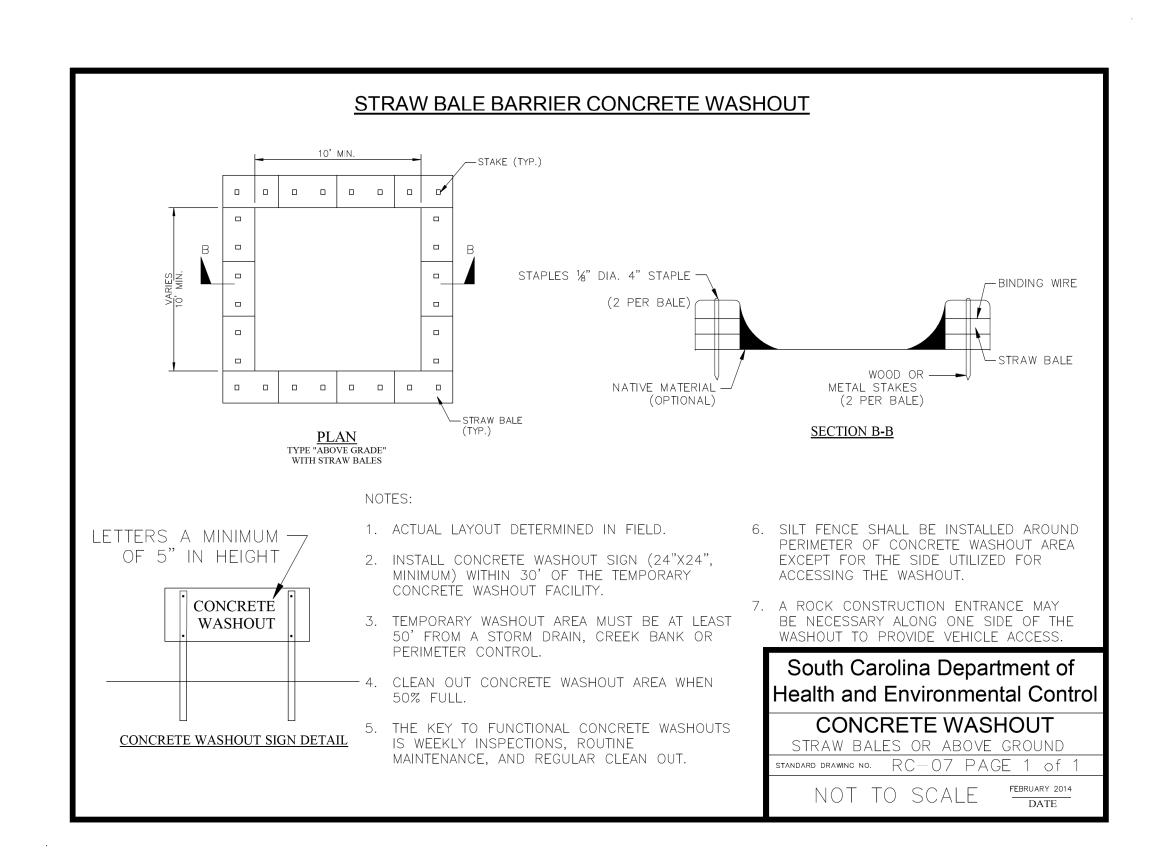


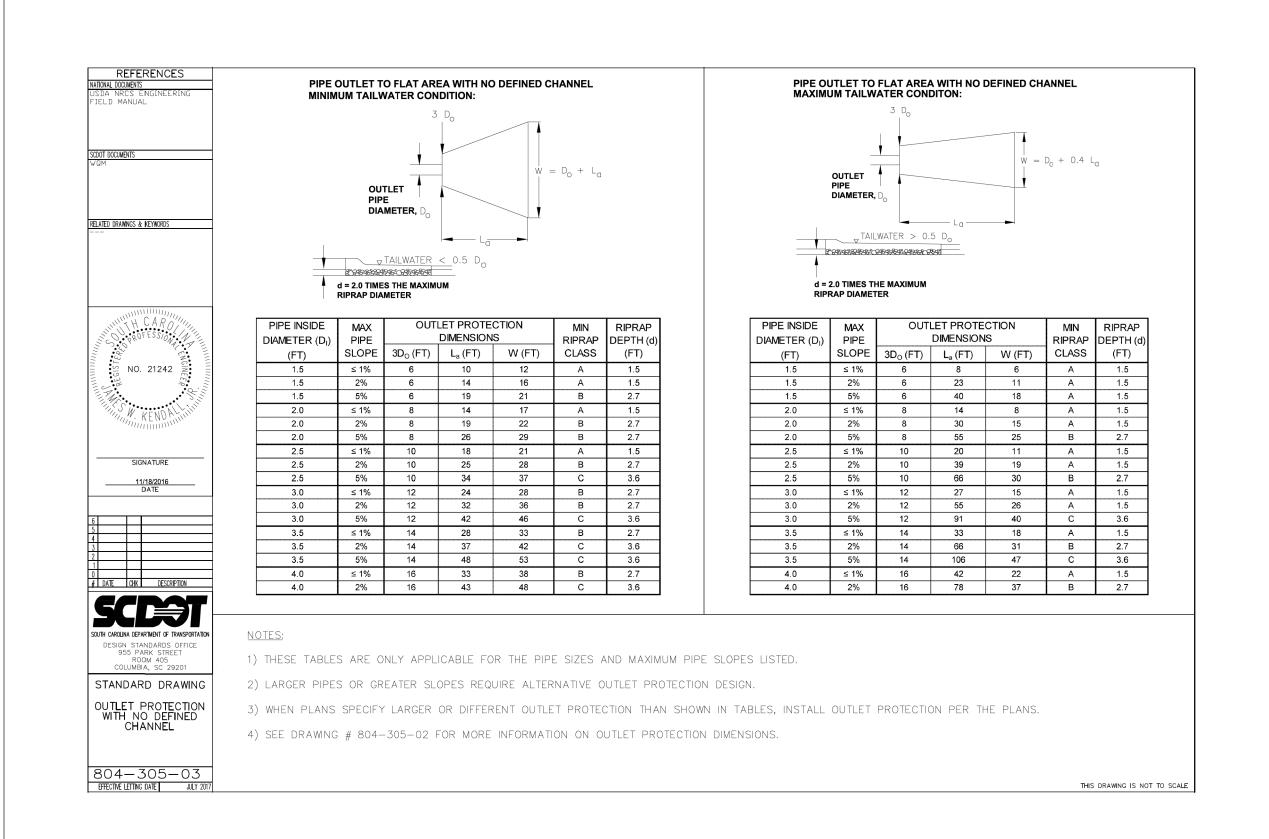


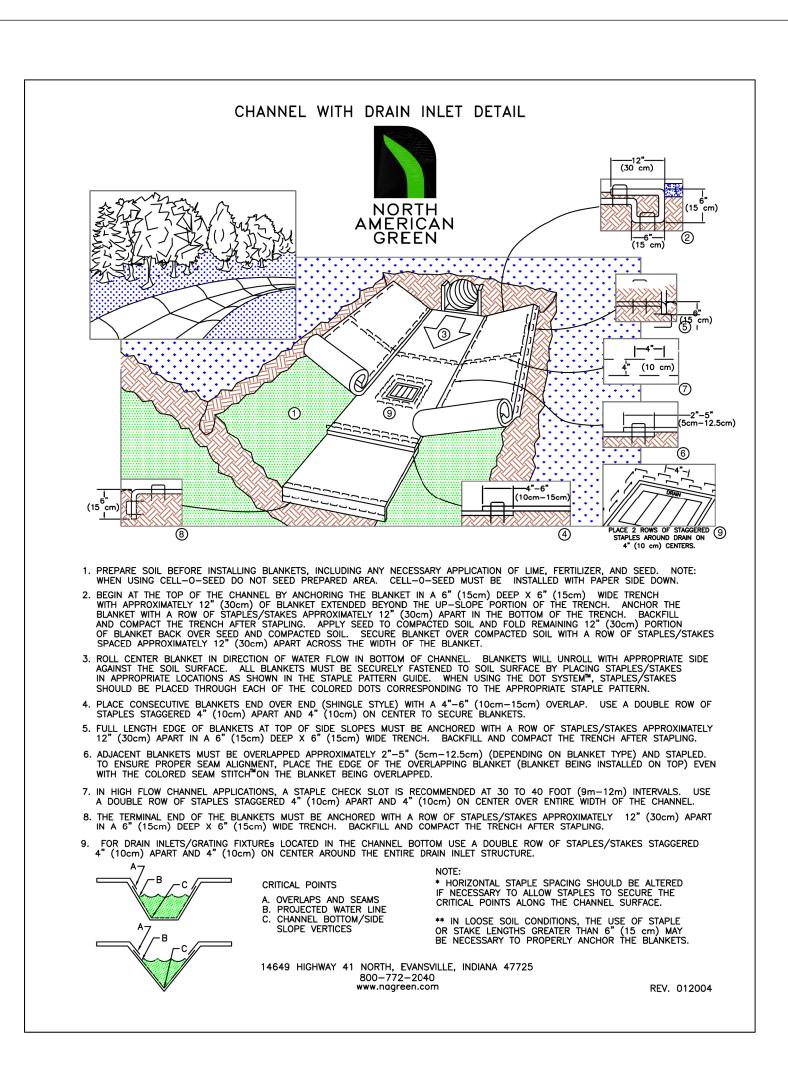
EROSION AND SEDIMENTATION CONTROL DETAILS

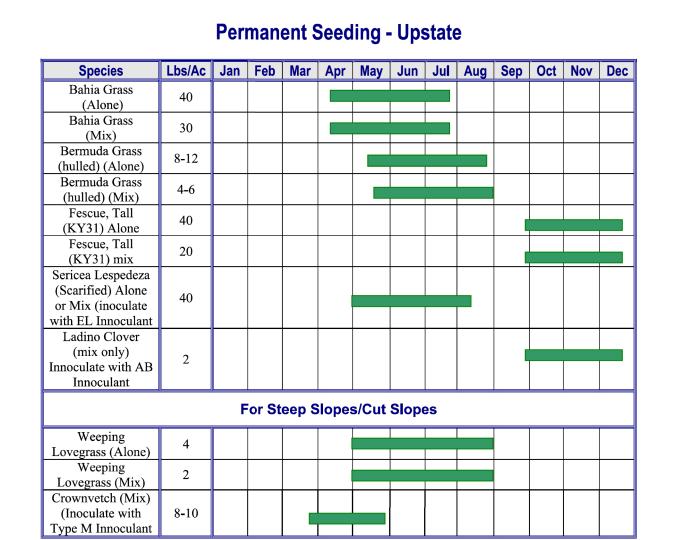
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NO.SHEET
NO.3S.C.CHESTERFIELD21-04464-002EC-4

ELIZABETH STREET





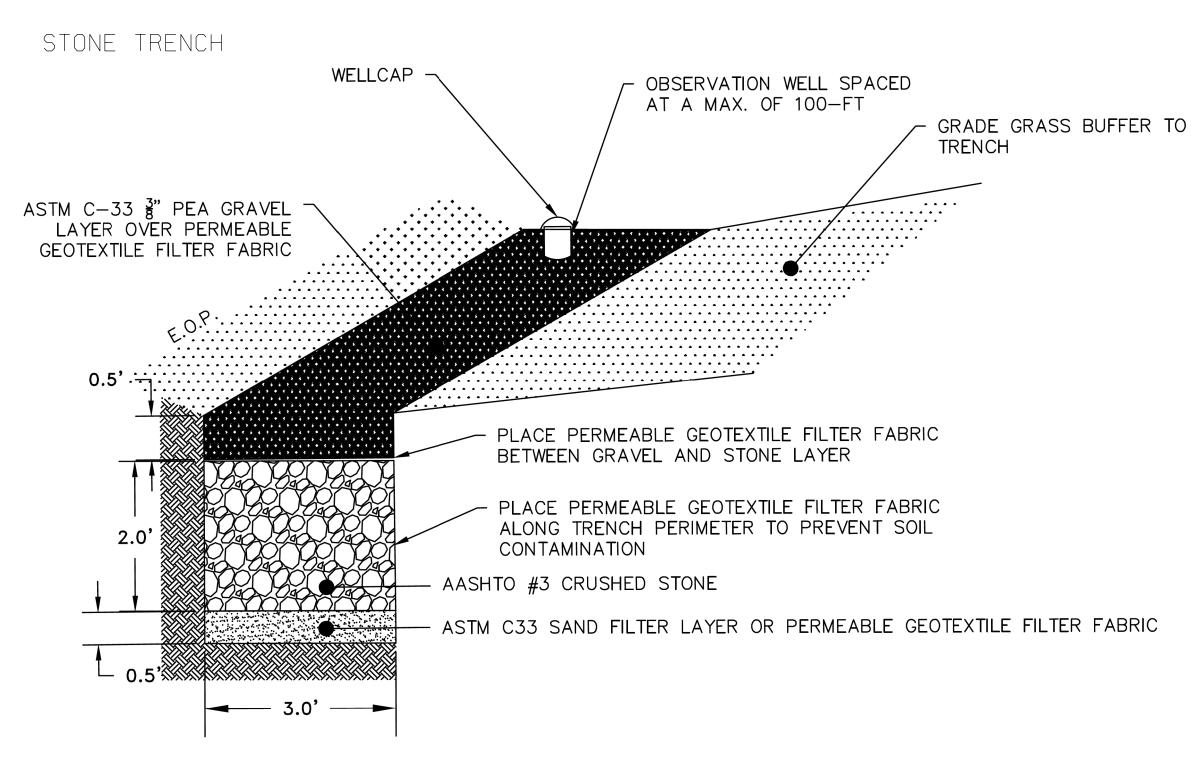




NOTE: PER SC-DHEC PERMANENT SEEDING RATE TABLE FOR UPSTATE, NO PERMANENT SEEDING IS RECOMMENDED BETWEEN MID-DECEMBER AND MID-APRIL.

Temporary Seeding - Upstate

Species	lbs./ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Browntop Millet (Alone)	40												
Browntop Millet (Mix)	10												
Rye Grain (Alone)	56												
Rye Grain (Mix)	10												
Rye Grass (Alone)	50												
Rye Grass (Mix)	8												
For Steep Slopes/Cut Slopes													
Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												



xs sheet5x5