

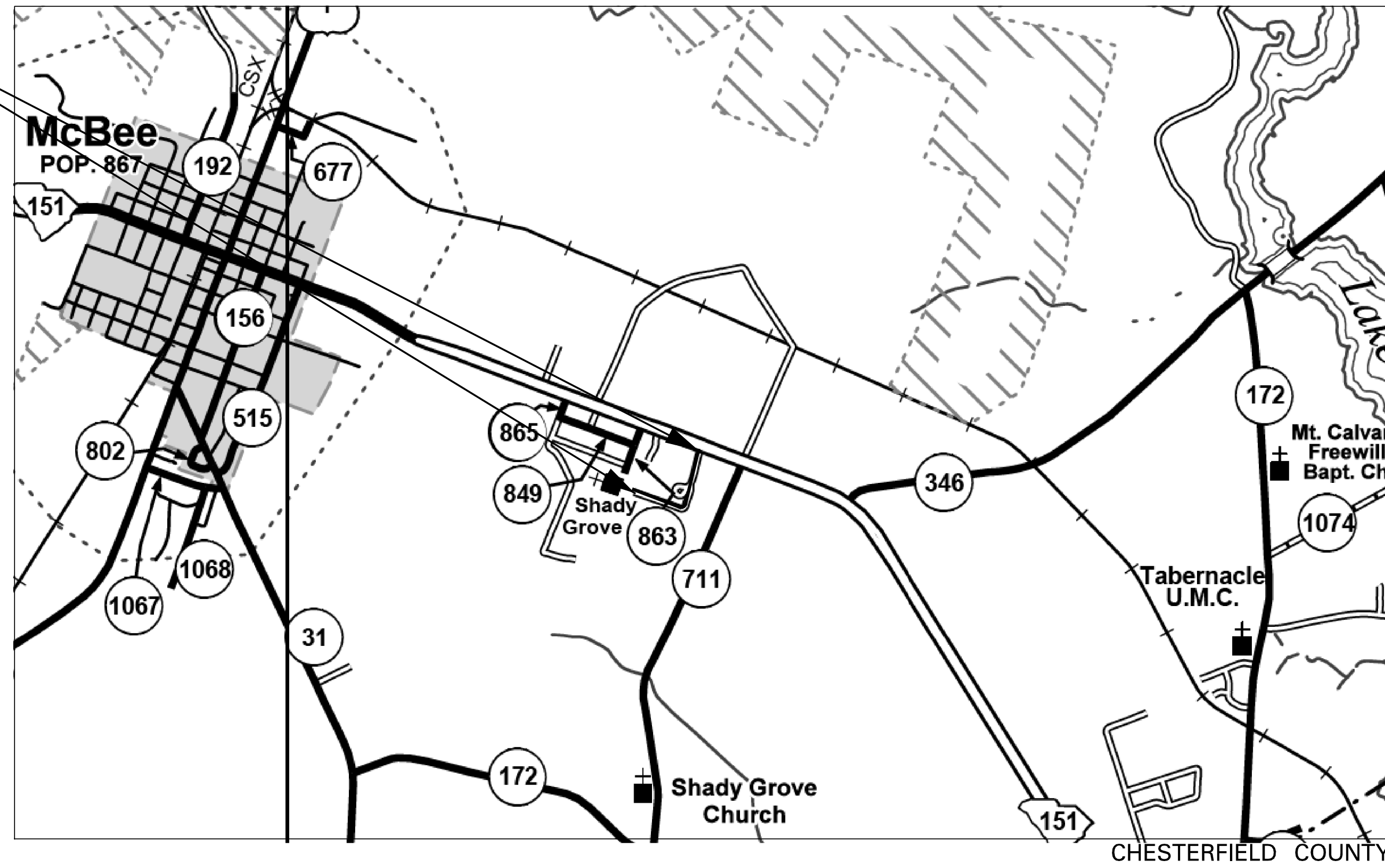
INDEX OF SHEETS		
SHEET NO.	DESCRIPTION	SHEET SUB-TOTALS
1	TITLE SHEET	1
2	QUANTITY SHEET	1
3	TYPICAL SECTIONS	1
4	RIGHT OF WAY DATA SHEET	1
4A	PROPERTY LAYOUT SHEET	1
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ECI - EC6	EROSION CONTROL SHEETS	6
XI-X9	CROSS SECTION SHEETS	9
TOTAL		27

# CHESTERFIELD COUNTY

## PROPOSED PLANS FOR

### CHESTERFIELD COUNTY RICK HENRY ROAD FROM: SC RTE. 151 TO: TERMINI

RICK HENRY ROAD  
FROM STA. 10+00.00 TO STA. 38+32.56



LAYOUT

SCALE 1 INCH = 1320 FEET

NET LENGTH OF ROADWAY	0.536	MILES
NET LENGTH OF BRIDGES		MILES
NET LENGTH OF PROJECT	0.536	MILES
LENGTH OF EXCEPTIONS		MILES
GROSS LENGTH OF PROJECT	0.536	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.

#### NPDES PERMIT INFORMATION

NPDES Disturbed  
Area = 1.421 Acre(s)

#### Approximate Location of Roadway is

Begin  
Latitude 34°27' 19.55"  
Longitude 80°13' 02.47"

End  
Latitude 34°27' 08.79"  
Longitude 80°13' 22.31"

Hydraulic and NPDES Design  
provided by:

Johnson, Mirmiran & Thompson

Designs may be obtained from the

Hydraulic Design Reference for these plans is the:

2009

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

ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	___YES	___X_NO	
NEPA DOCUMENT	___YES	___X_NO	
401 CERTIFICATION	___YES	___X_NO	
OCRM CAP	___YES	___X_NO	
NAVIGABLE WATERS	___SC	___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

\_\_\_NA \_\_\_ADT \_\_\_

\_\_\_ADT \_\_\_

TRUCKS \_\_\_%



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

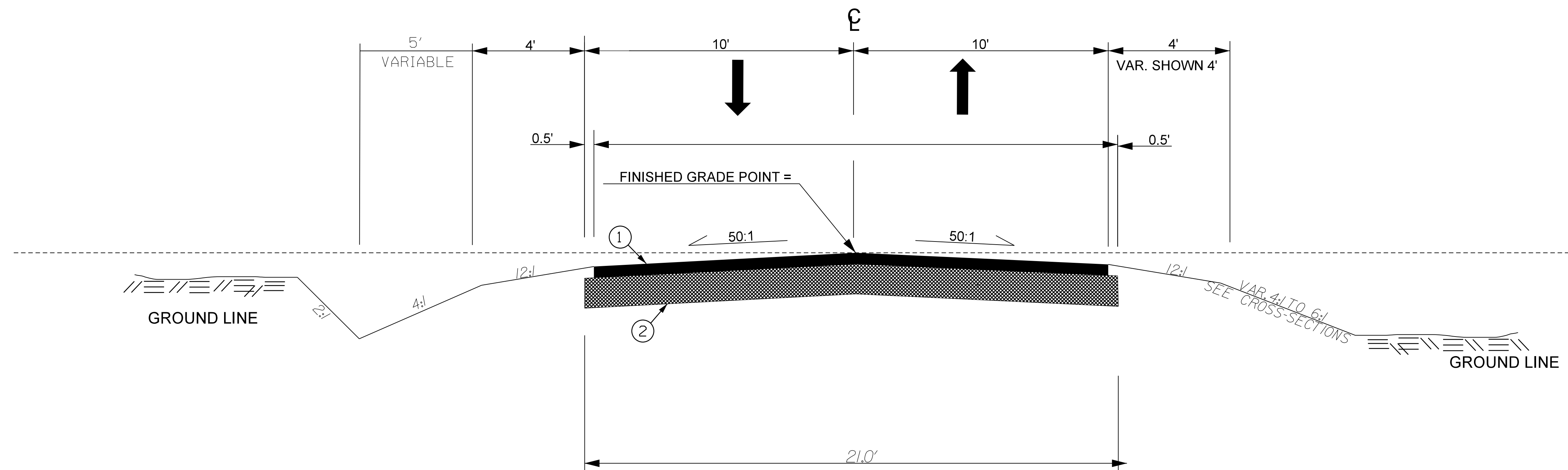




FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		3

RICK HENRY RD.

# TYPICAL SECTION OF IMPROVEMENT CHESTERFIELD COUNTY



USE THIS SECTION ON RICK HENRY ROAD

STA. 10+00.00 TO STA. 38+32.56

- 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: SOME SHOULDER MAINTENANCE MAY BE REQUIRED  
USE EXCESS "FLUFF" MATERIAL FOR DRIVEWAYS AND SHOULDERS.

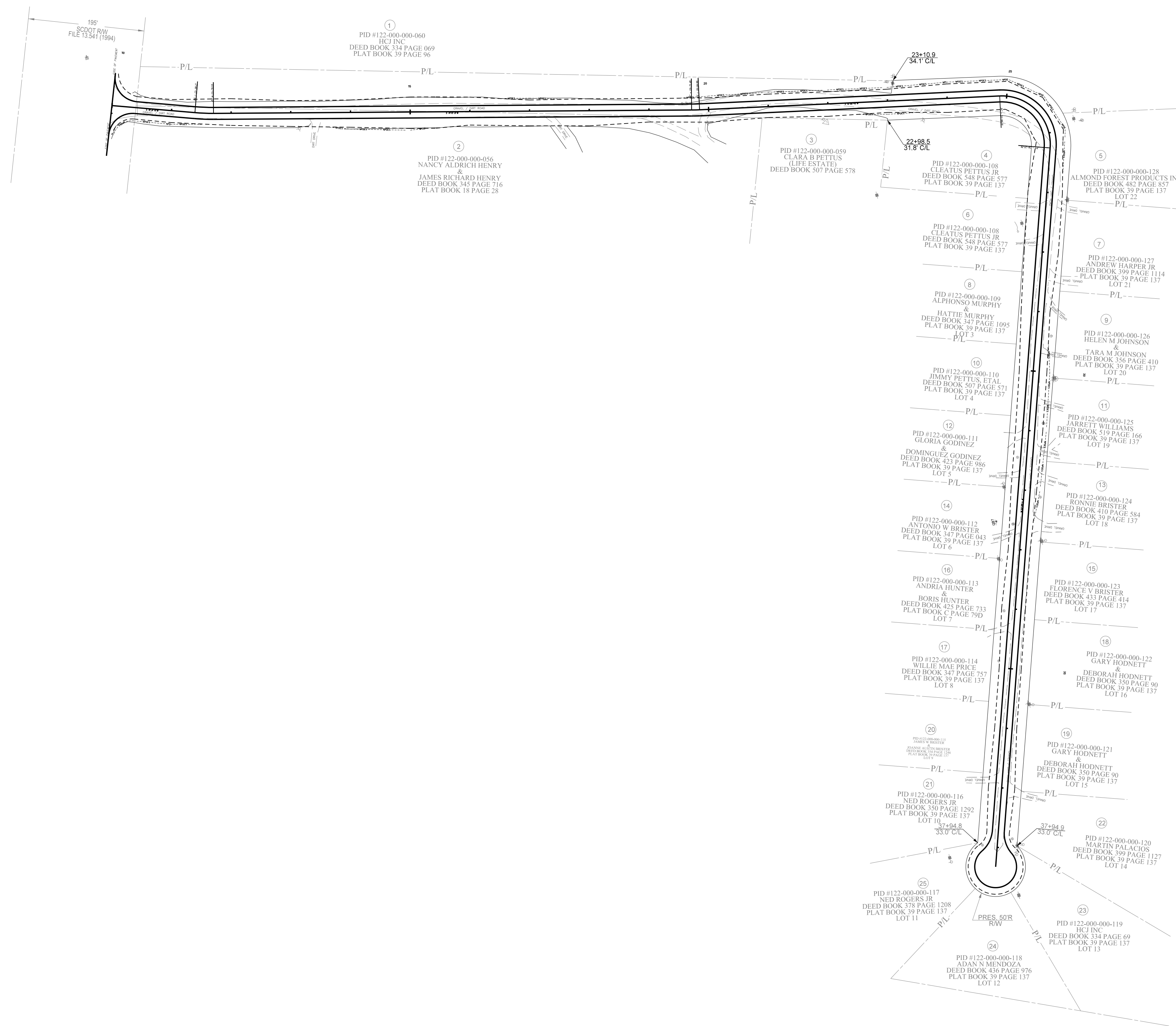
\*NOTE: IF CEMENT MODIFIED RECYLCED BASE IS USED ADD A LEVELING LIFT OF ASPHALT SURFACE COURSE TYPE E @ 45 PSY

DETERMINATION OF SOIL CEMENT	
MOISTURE-DENSITY RELATIONS OF SOIL-CEMENT MIXTURES (AASHTO T-134)	
PERCENTAGE OF CEMENT USED	3 %
OPTIMUM MOISTURE CONTENT	10.6 %
METHOD OF MAKING, CURING AND TESTING OF SOIL-CEMENT COMPRESSION SPECIMENS (SC-T-38)	
MAXIMUM DRY DENSITY	116.4 per cubic foot
SOIL CEMENT APPLICATION RATE AT 3 % AT 175 lbs/sq.yd AT 6 in DEPTH	

Road group designation for this FAS Rural Route or State "C" Road per EDM PC-3 is  
**Group 1**

		PLANS PREPARED BY:		<small>3600 FOREST DRIVE SUITE 102 COLUMBIA, SC 29204 (803) 626-1747</small>	RICK HENRY RD. DESIGN SPEED		ROAD DESIGN CHESTERFIELD COUNTY
					MPH	FROM STA.	
					30	10+00.00	38+32.56
					EXCEPTIONS TO DESIGN SPEED		TYPICAL SECTION
					SCALE 1"=V-NTS SCALE 1"=H-NTS RTE./RD.		





5				CHESTERFIELD COUNTY
4				
3				
2				
1				
REV. NO.	BY	DATE	DESCRIPTION OF REVISION	SCALE 1" = 100'

Chain RICK\_HENRY contains:  
14 CUR RICK\_HENRY1 CUR RICK\_HENRY2 CUR RICK\_HENRY3 15

Beginning chain RICK\_HENRY description  
=====

Point 14 N 954,914.0217 E 2,235,919.1868 Sta 10+00.00

Course from 14 to PC RICK\_HENRY1 S 19° 31' 14.60" W Dist 139.2745

Curve Data  
\*-----\*

Curve RICK\_HENRY1  
P.I. Station 11+54.91 N 954,768.0129 E 2,235,867.4229  
Delta = 5° 16' 01.36" (LT)  
Degree = 16° 51' 06.12"  
Tangent = 15.6386  
Length = 31.2553  
Radius = 340.0000  
External = 0.3595  
Long Chord = 31.2443  
Mid. Ord. = 0.3591  
P.C. Station 11+39.27 N 954,782.7526 E 2,235,872.6485  
P.T. Station 11+70.53 N 954,752.8557 E 2,235,863.5724  
C.C. N 954,669.1424 E 2,236,193.1056  
Back = S 19° 31' 14.60" W  
Ahead = S 14° 15' 13.24" W  
Chord Bear = S 16° 53' 13.92" W

Course from PT RICK\_HENRY1 to PC RICK\_HENRY2 S 14° 15' 13.24" W Dist 800.9645

Curve Data  
\*-----\*

Curve RICK\_HENRY2  
P.I. Station 19+78.15 N 953,970.1015 E 2,235,664.7248  
Delta = 2° 14' 30.01" (LT)  
Degree = 16° 51' 06.12"  
Tangent = 6.6520  
Length = 13.3023  
Radius = 340.0000  
External = 0.0651  
Long Chord = 13.3015  
Mid. Ord. = 0.0651  
P.C. Station 19+71.49 N 953,976.5488 E 2,235,666.3626  
P.T. Station 19+84.80 N 953,963.5952 E 2,235,663.3404  
C.C. N 953,892.8355 E 2,235,995.8957  
Back = S 14° 15' 13.24" W  
Ahead = S 12° 00' 43.23" W  
Chord Bear = S 13° 07' 58.23" W

Course from PT RICK\_HENRY2 to PC RICK\_HENRY3 S 12° 00' 43.23" W Dist 503.3933

Curve Data  
\*-----\*

Curve RICK\_HENRY3  
P.I. Station 25+79.71 N 953,381.7047 E 2,235,539.5282  
Delta = 96° 58' 52.19" (RT)  
Degree = 70° 44' 07.91"  
Tangent = 91.5235  
Length = 137.1039  
Radius = 81.0000  
External = 41.2193  
Long Chord = 121.3132  
Mid. Ord. = 27.3178  
P.C. Station 24+88.19 N 953,471.2242 E 2,235,558.5758  
P.T. Station 26+25.29 N 953,411.4915 E 2,235,452.9875  
C.C. N 953,488.0817 E 2,235,479.3494  
Back = S 12° 00' 43.23" W  
Ahead = N 71° 00' 24.58" W  
Chord Bear = S 60° 30' 09.32" W

Course from PT RICK\_HENRY3 to 15 N 71° 00' 24.58" W Dist 1,207.2696

Point 15 N 953,804.4040 E 2,234,311.4448 Sta 38+32.56

Ending chain RICK\_HENRY description  
=====

## RICK HENRY Survey Control List

SURVEY GROUP:  
ROAD/ROUTE: RICK HENRY  
PIN / PRJ ID: 21-04464-001  
CHARGE CODE:  
COUNTY: CHESTERFIELD

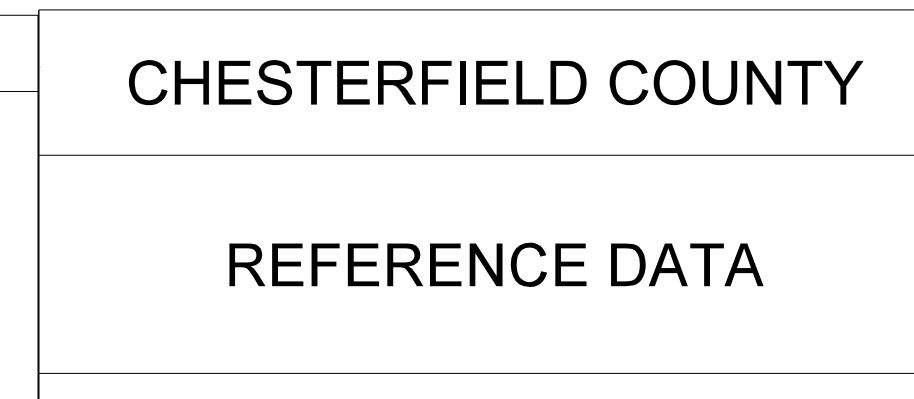
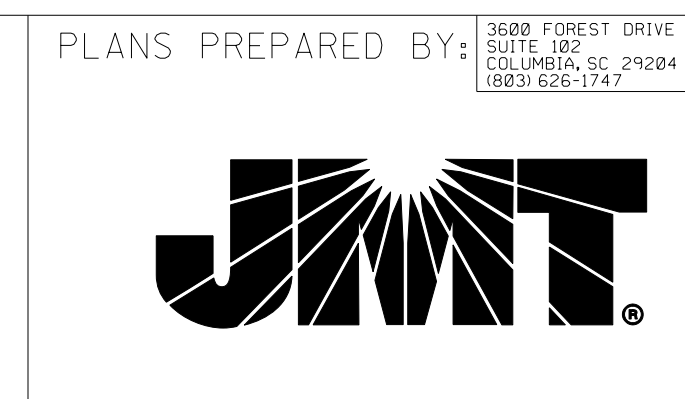
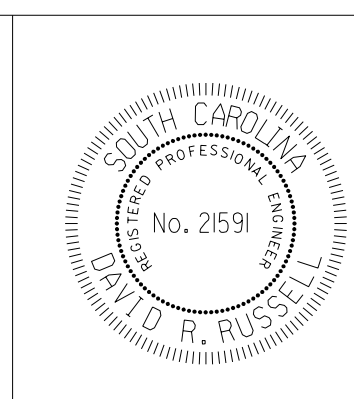
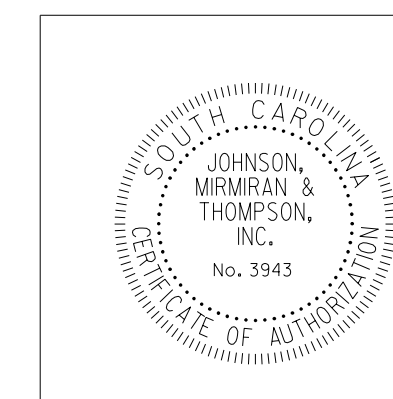
	NORTHING	EASTING	ELEV	DESC
1	953793.653	2234322.537	387.053	PSC
2	953654.4730	2234769.3970	395.87	PSC
3	953393.5630	2235439.5560	395.23	PSC
4	953896.9090	2235677.7800	402.64	PSC
5	954422.9960	2235763.0320	399.76	PSC
6	954890.3440	2235950.7840	410.08	PSC

## CURVE DATA

*P.I. = 11+54.91*  
*Δ = 5° 16' 01" (LT)*  
*D = 16° 51' 06"*  
*T = 15.64'*  
*L = 31.26'*  
*E = 0.36'*  
*R = 340.00'*  
*D.S. = 30 MPH*  
*eMAX = 0.060*  
*e = 0.41*  
*P.C. - LG% = 0.50*  
*P.T. - LG% = 0.50*

*P.I. = 19+78.15*  
*Δ = 2° 14' 30" (LT)*  
*D = 16° 51' 06"*  
*T = 6.65'*  
*L = 13.30'*  
*E = 0.07'*  
*R = 340.00'*  
*D.S. = 30 MPH*  
*eMAX = 0.060*  
*e = 0.39*  
*P.C. - LG% = 0.50*  
*P.T. - LG% = 0.50*

*P.I. = 25+79.71*  
*Δ = 96° 58' 52" (RT)*  
*D = 70° 44' 08"*  
*T = 91.52'*  
*L = 137.10'*  
*E = 41.22'*  
*R = 81.00'*  
*D.S. = 30 MPH*  
*eMAX = 0.060*  
*e = 0.60*  
*P.C. - LG% = 0.50*  
*P.T. - LG% = 0.50*



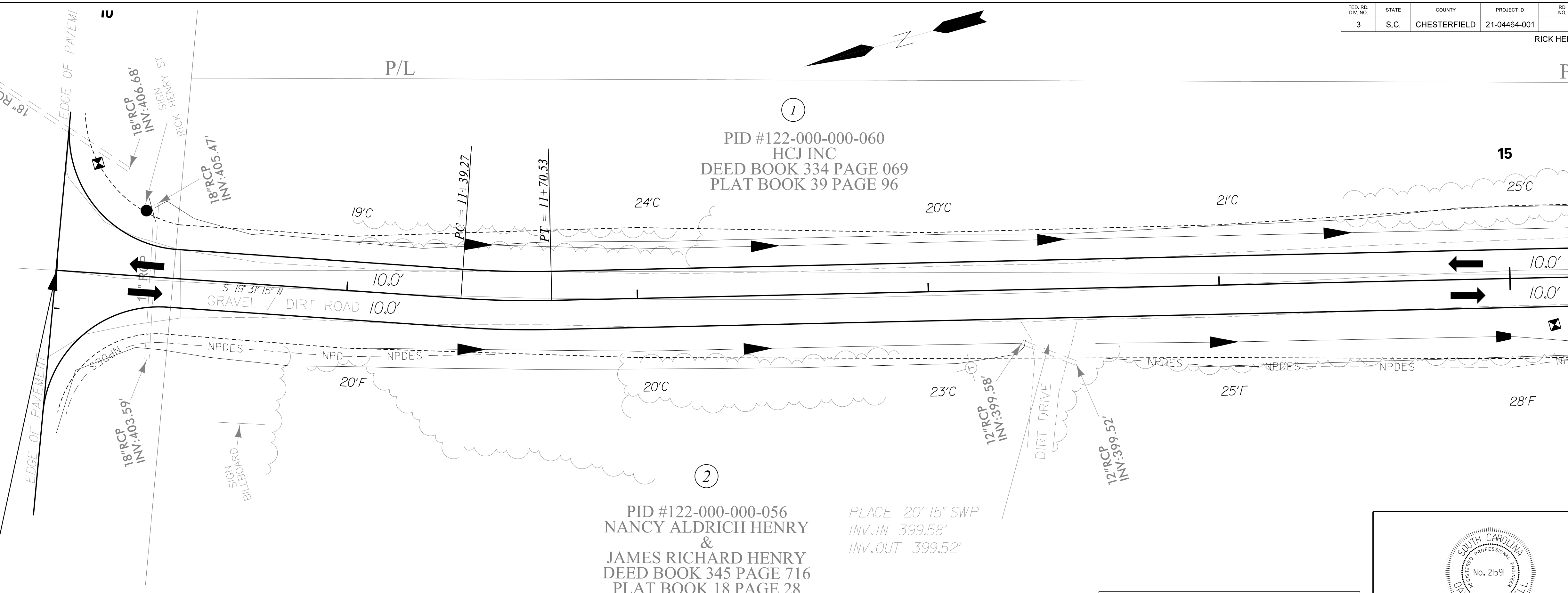


FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	RD. NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		6

RICK HENRY RD

**SC HWY 151  
AKA W. BOBO NEWSOM HWY  
SCDOT PROJECT ID # 13.541**

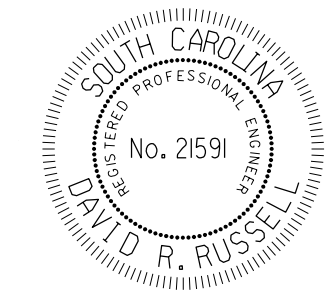
STA. 10+00.00 BEGIN  
RICK HENRY ROAD.



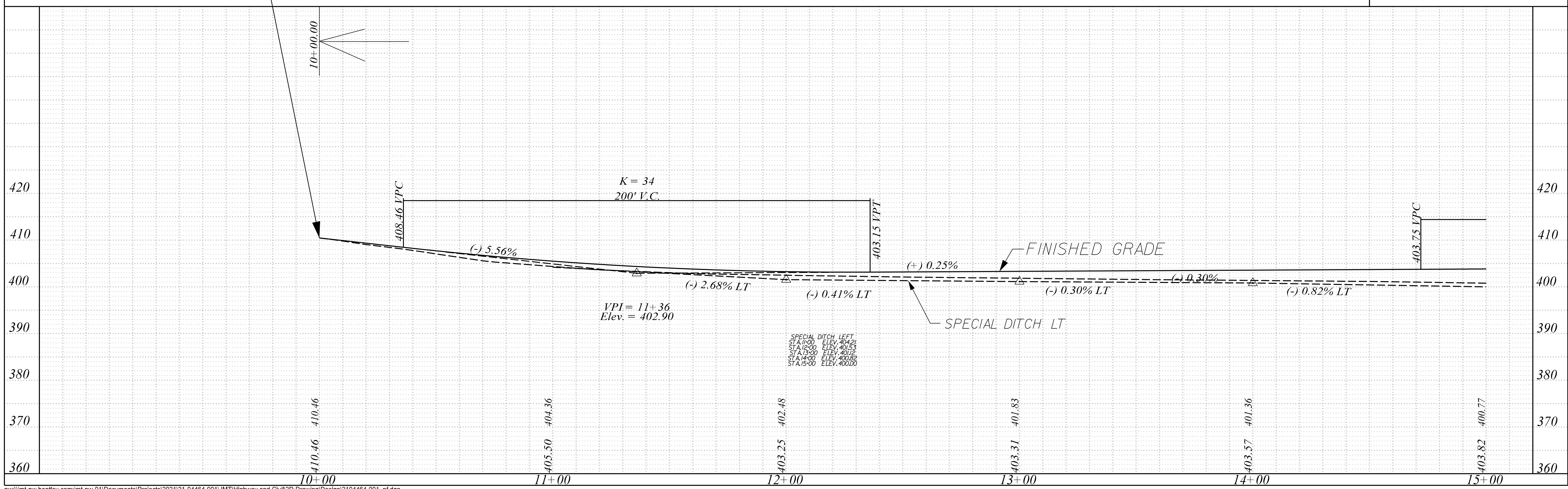
PID #122-000-000-060  
HCJ INC  
DEED BOOK 334 PAGE 069  
PLAT BOOK 39 PAGE 96

PID #122-000-000-056  
NANCY ALDRICH HENRY  
&  
JAMES RICHARD HENRY  
DEED BOOK 345 PAGE 716  
PLAT BOOK 18 PAGE 28

PLACE 20'-15" SWP  
INV. IN 399.58'  
INV. OUT 399.52'



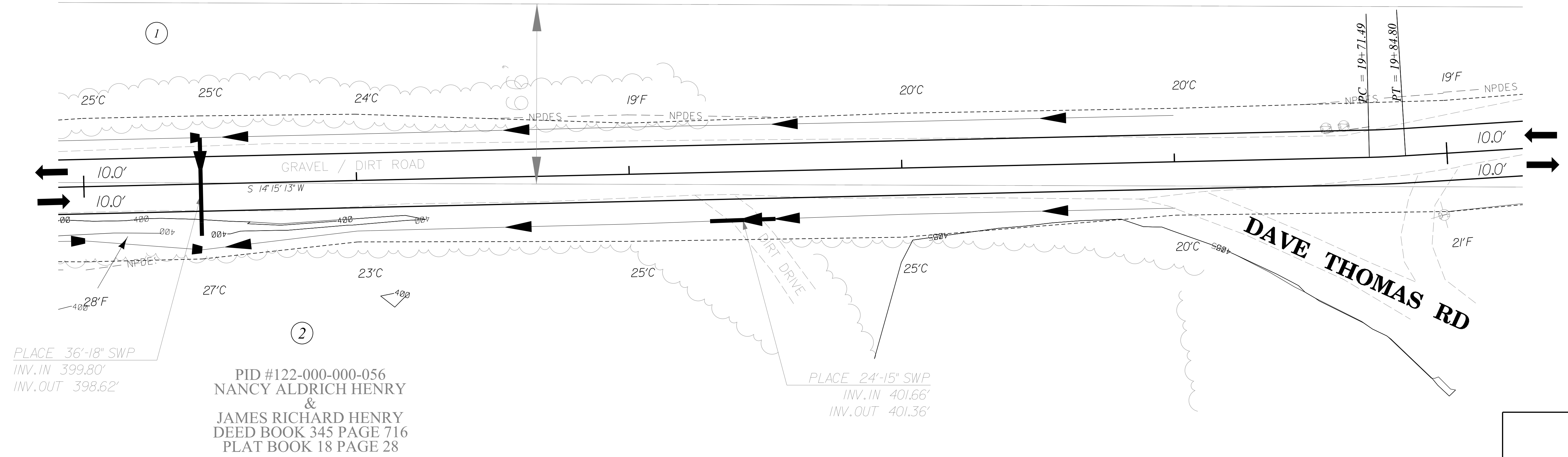
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



SPECIAL DITCH LEFT  
STA 11+00 ELEV. 404.21  
STA 12+00 ELEV. 401.53  
STA 13+00 ELEV. 400.12  
STA 14+00 ELEV. 400.86  
STA 15+00 ELEV. 400.00

PLAT BOOK 39 PAGE 96  
P/L

P/L

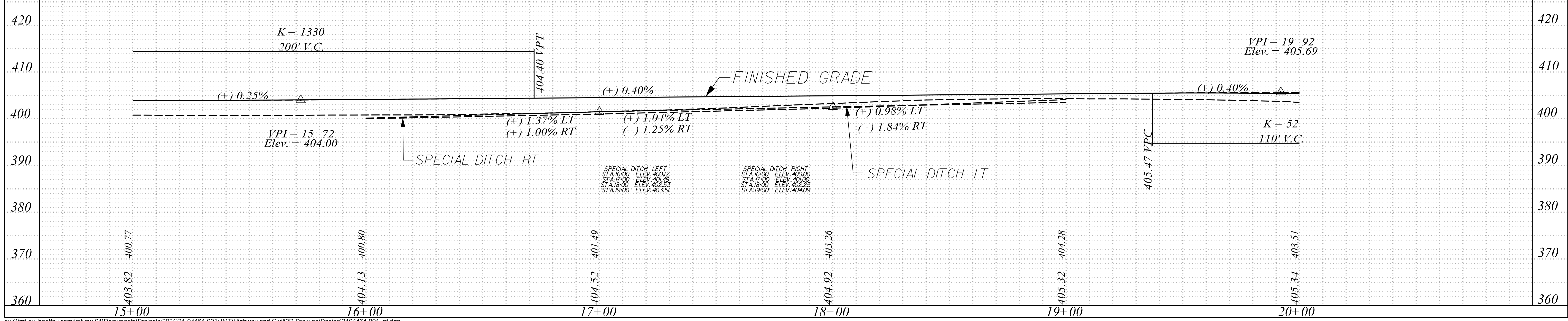


PID #122-000-000-056  
NANCY ALDRICH HENRY  
&  
JAMES RICHARD HENRY  
DEED BOOK 345 PAGE 716  
PLAT BOOK 18 PAGE 28

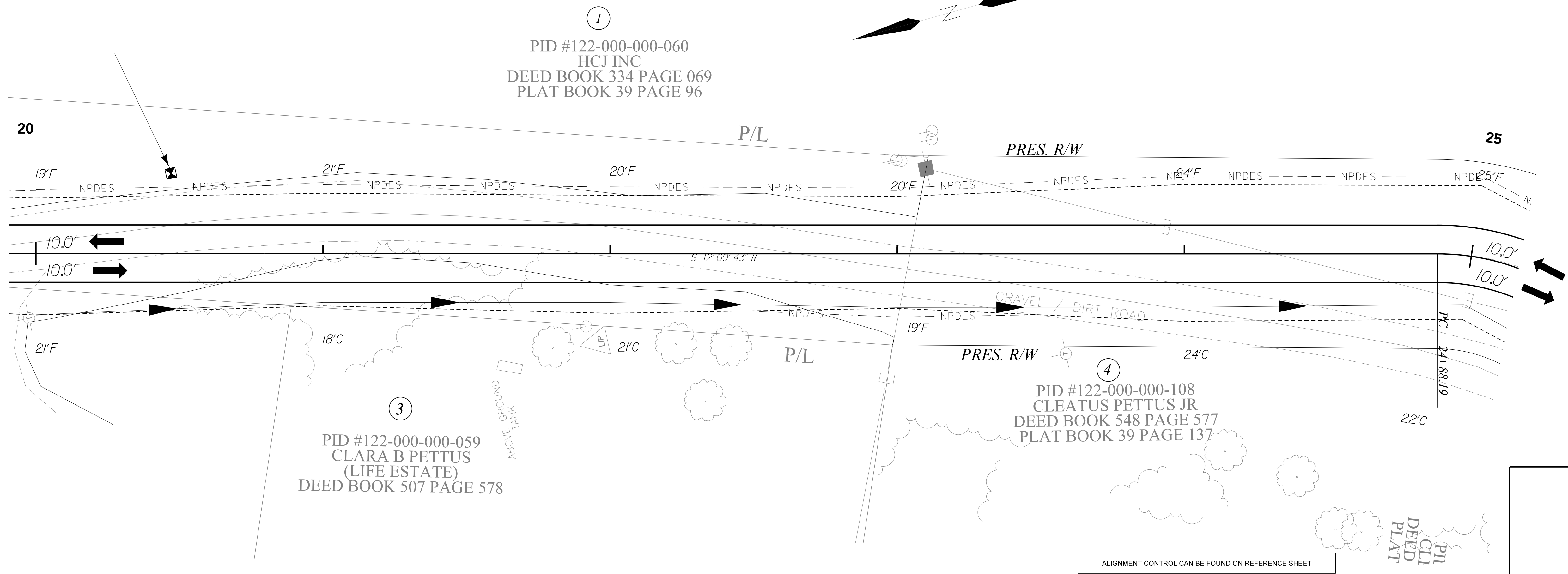
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



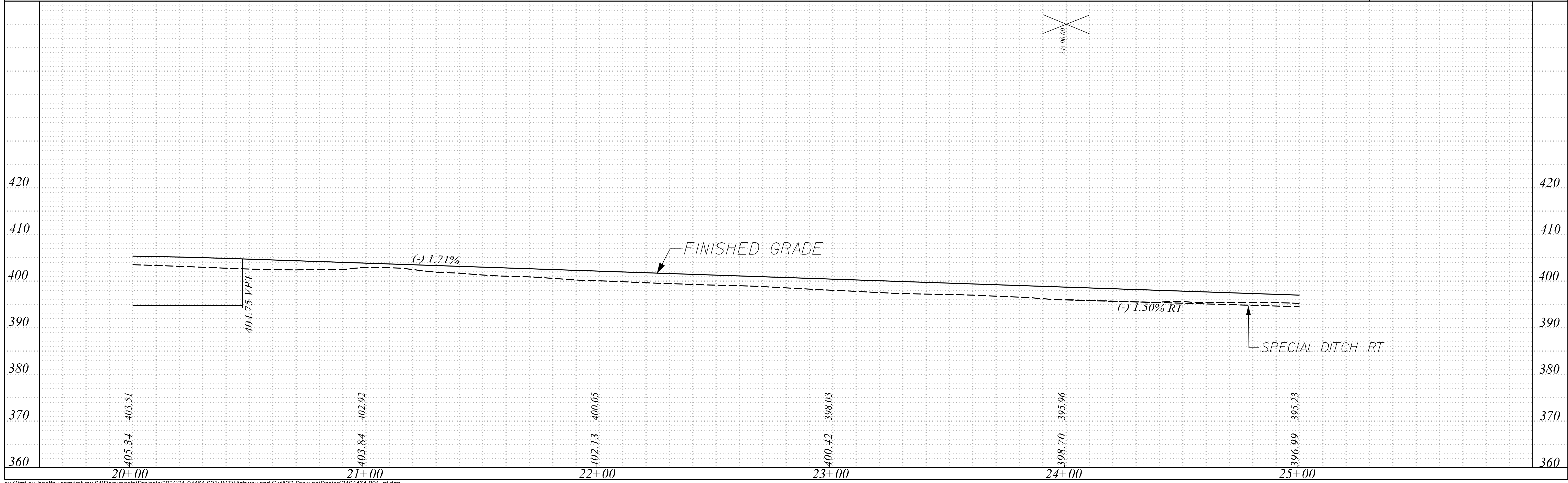
EXC. = 231 CY	EMR. = 2420 CY
BORR. EXC. = 3157 CY	40% = 968 CY
SUB TOT. = 3388 CY	SUB TOT. = 3388 CY
LESS BORR EXC = 3157 CY	LESS BORR EXC = 3157 CY
TOTAL = 231 CY	TOTAL = 231 CY

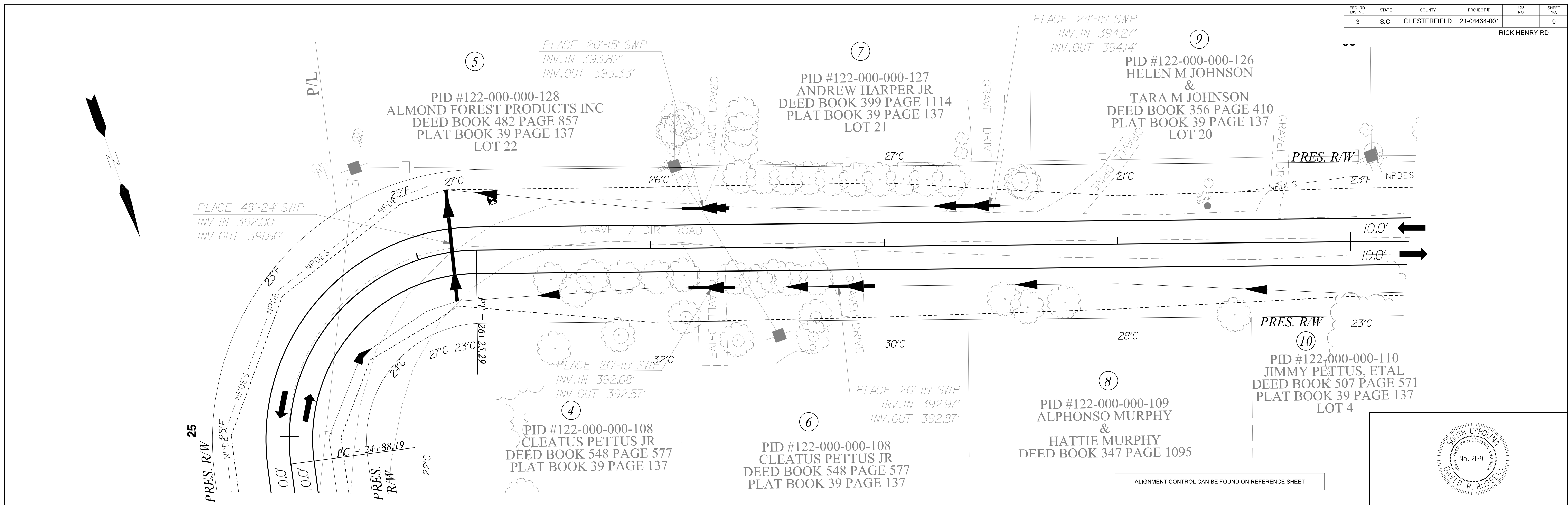




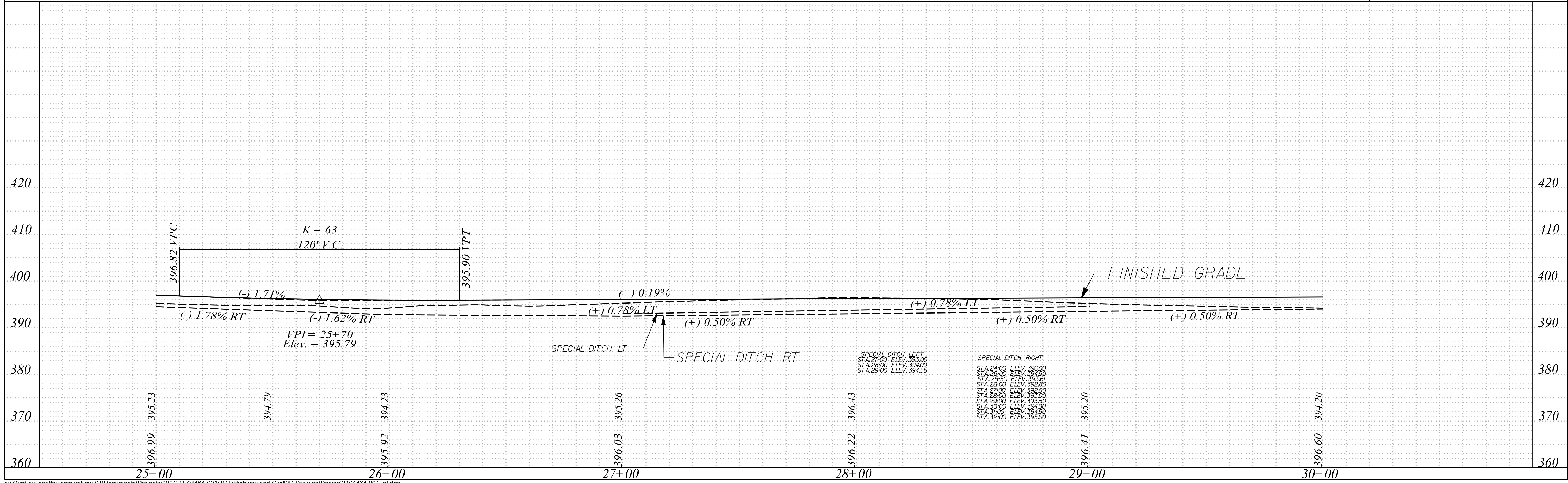


ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



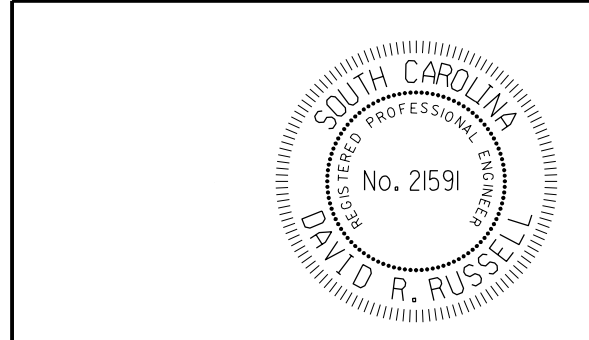
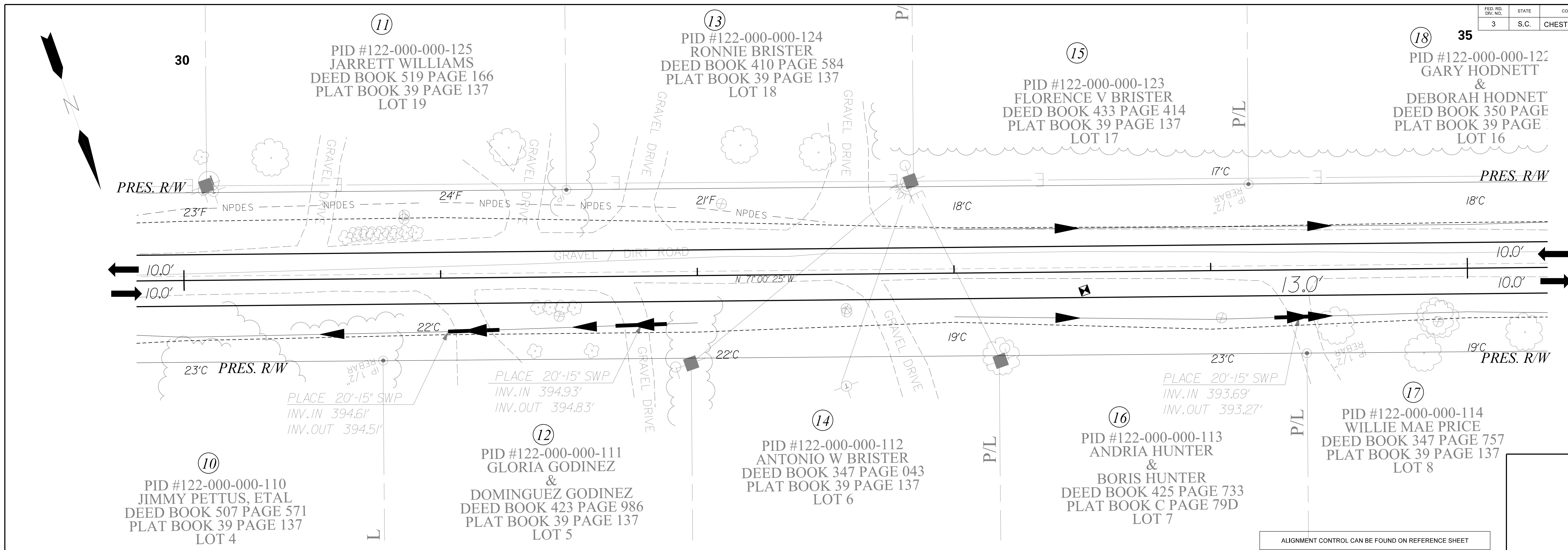


ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET



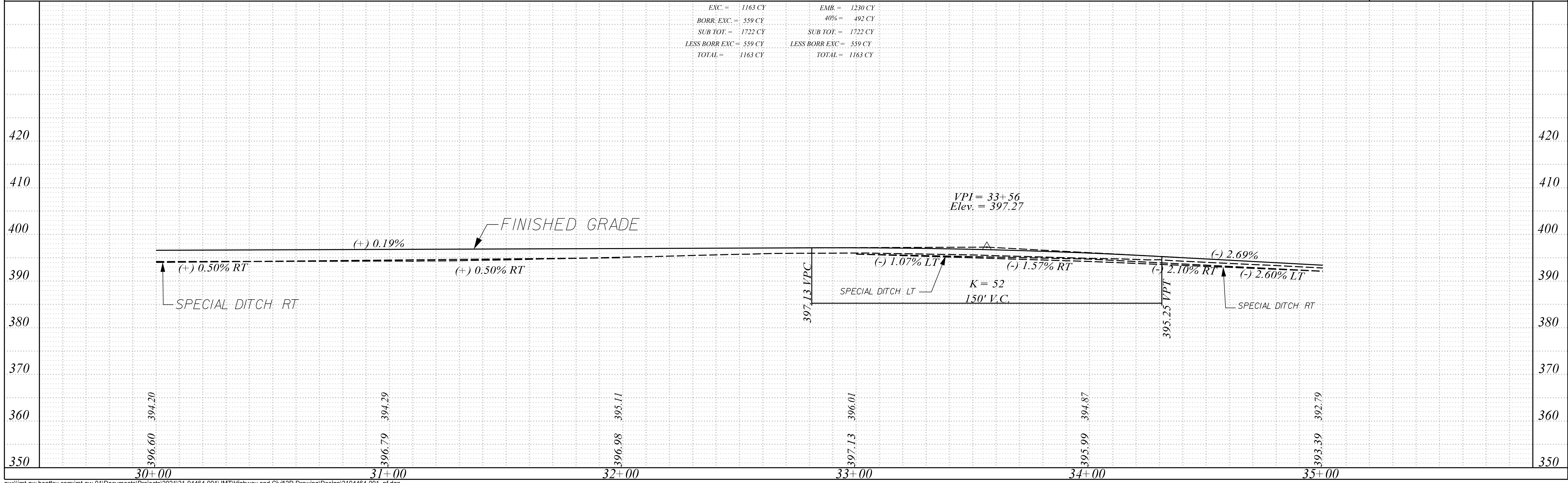
FED. RD. DIST. NO.	STATE	COUNTY	PROJECT ID	RD. NO.	SHEET NO.
3	S.C.	CHESTERFIELD	Z1-04464-001		10

RICK HENRY RD

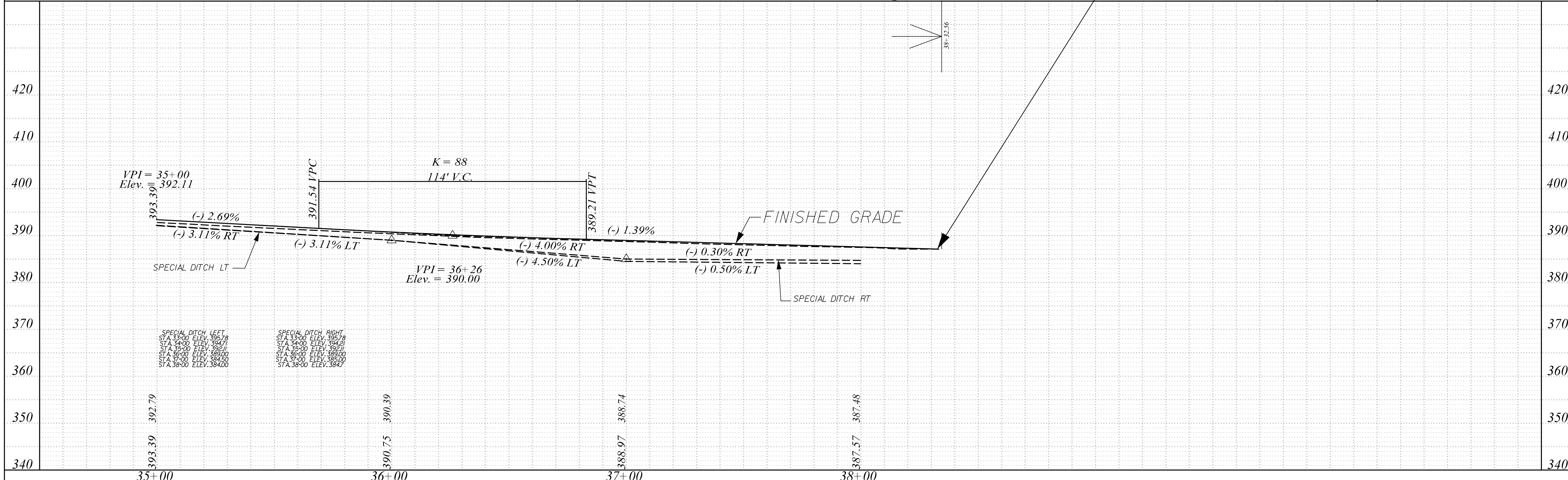
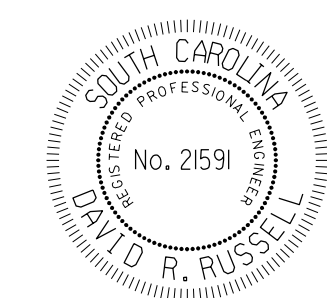
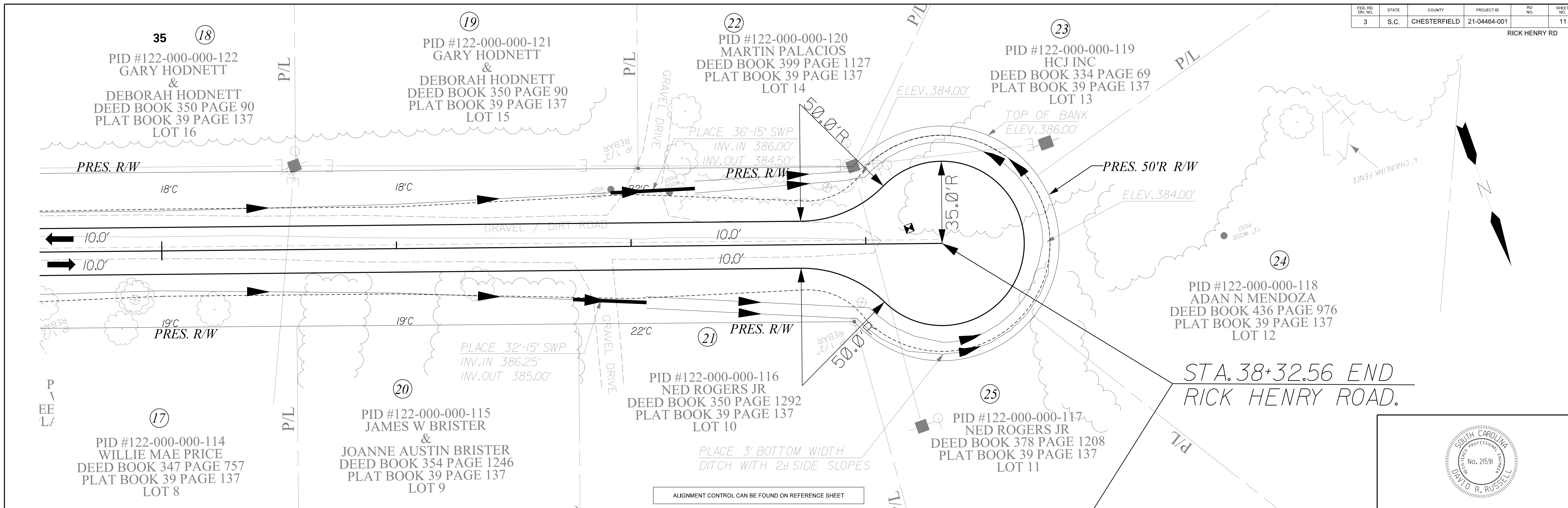


ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

EXC. = 1163 CY	EMB. = 1230 CY
BORR. EXC. = 559 CY	40% = 492 CY
SUB TOT. = 1722 CY	SUB TOT. = 1722 CY
LESS BORR EXC = 559 CY	LESS BORR EXC = 559 CY
TOTAL = 1163 CY	TOTAL = 1163 CY







# EROSION AND SEDIMENTATION CONTROL NOTES

FED. RD. DIV. NO	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		EC-1

RICK HENRY ROAD

## EROSION AND SEDIMENTATION CONTROL GENERAL NOTES

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.
3. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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 SCRI00000.
10. 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 OULETS.
11. 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 CANNOT 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.
12. 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.
13. 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.
14. 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.
15. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. UPDATED 2/6/13
16. 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 DISCHARGE.
17. 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.).
18. 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.
19. 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.
20. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION OF THIS PERMIT 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.
21. 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.
22. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY CHESTERFIELD COUNTY AND SCDHEC.
23. 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 MEETING.
24. 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 JURISDICTIONAL 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 EOC OFFICE SHALL BE NOTIFIED 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
2. FIELD MARK UTILITIES, 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 NEEDED.
13. PROVIDE REMAINING PERMANENT SEEDING AND MULCHING.
14. COMPLETE ALL ON-SITE IMPROVEMENTS AND PERFORM AND CLEANUP.
15. UNTIL SUCH TIME AS THE SITE IS PERMANENTLY STABILIZED, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE 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 DESIGNED.
2. CONSTRUCTION EQUIPMENT SHALL NOT BE STORED OVERNIGHT OR FUELED ON SITE WITHOUT THE CONSENT OF THE COUNTY.

### INSPECTION AND MAINTENANCE

#### SILT FENCE.

- a. INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES  $\frac{3}{4}$  -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.
- b. 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 EXPECTED.
- 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  $\frac{3}{4}$  -INCHES OR MORE OF PRECIPITATION.
- b. 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 4 PERCENT.
- 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.

#### SEDIMENT TUBES

- a. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES.
- b. INSPECT EVERY 7-DAYS AND WITHIN 24-HOURS OF A RAINFALL EVENT OF 0.5-INCHES OR GREATER.
- c. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT TUBES.
- 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 MATERIAL.
- 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  $\frac{3}{4}$  -INCHES OR MORE OF PRECIPITATION, OR AFTER HEAVY USE.
- b. 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  $\frac{3}{4}$  -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 NEEDED.
- 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 STABILIZED. 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 REQUIRED.
2. THE PERMITTEE AND THE CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND AFTER EACH PRECIPITATION EVENT BY QUALIFIED PERSONNEL TO ASSURE THE EFFECTIVE OPERATION OF BMPS. 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 TERMINATION OF COVERAGE UNDER THIS PERMIT.
5. THE PERMITTEE AND CO- PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT 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 OPERATION 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 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 LEGEND			
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
NPDES BOUNDARY = LIMITS OF DISTURBANCE	--- NPDES ---	DITCH CHECK	
SILT FENCE:			
NAG S75 DITCH LINING, OR APPROVED EQUIVALENT			
SEDIMENT TUBE:		CONSTRUCTION ENTRANCE:	
		OUTLET PROTECTION	

# EROSION AND SEDIMENTATION CONTROL DETAILS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		EC-2

RICK HENRY ROAD

**PLAN SYMBOL**

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

**South Carolina Department of Health and Environmental Control**

**CONSTRUCTION ENTRANCE**

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

FEBRUARY 2014 DATE

NOT TO SCALE

**SILT FENCE INSTALLATION**

**PLAN SYMBOL**

—SF—SF—

**FLAT-BOTTOM TRENCH DETAIL**

18-IN. TO 24-IN.

24-IN. (MINIMUM)

6-IN.

6-IN.

**V-SHAPED TRENCH DETAIL**

18-IN. TO 24-IN.

24-IN. (MINIMUM)

6-IN.

6-IN.

BURY FILTER FABRIC AT LEAST 12-INCHES

**SILT FENCE - GENERAL NOTES**

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
  - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
  - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
  - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

**South Carolina Department of Health and Environmental Control**

**SILT FENCE**

STANDARD DRAWING NO. SC-03 Page 1 of 2

FEBRUARY 2014 DATE

NOT TO SCALE

**SEDIMENT TUBE INSTALLATION**

FLOW

Stakes Placed at 2' Minimum Spacing

**PLAN SYMBOL**

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150- FEET
2%	100- FEET
3%	75- FEET
4%	50- FEET
5%	40- FEET
6%	30- FEET
GREATER THAN 6%	25- FEET

**South Carolina Department of Health and Environmental Control**

**SEDIMENT TUBES**

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

FEBRUARY 2014 DATE

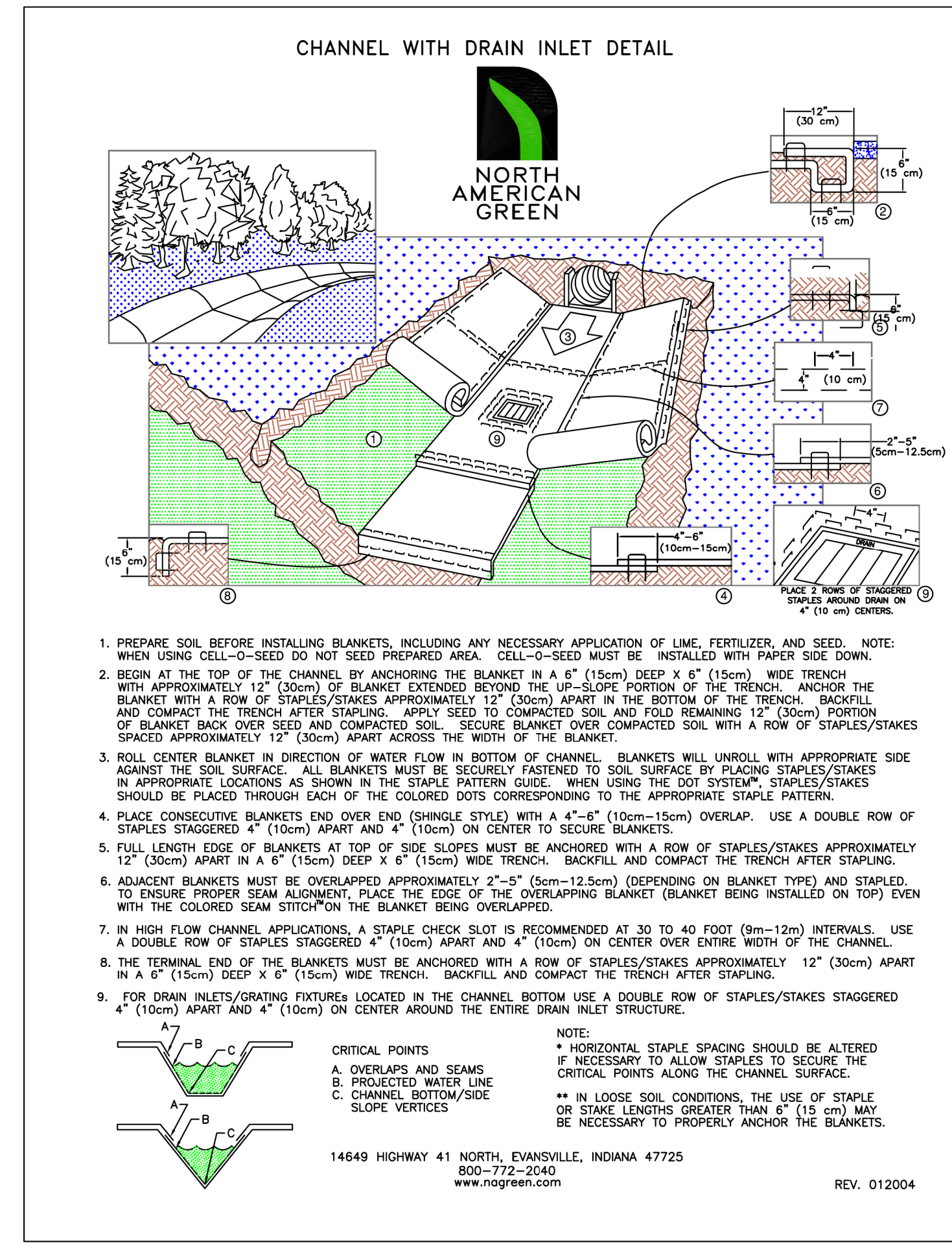
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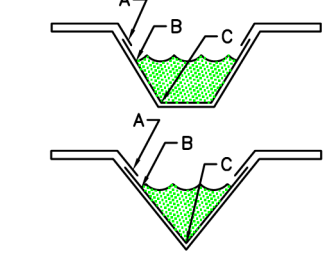
# EROSION AND SEDIMENTATION CONTROL DETAILS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	SC.	CHESTERFIELD	21-04464-001		EC-3

RICK HENRY ROAD



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. FOR DRAIN INLETS/GRATING FIXTURES LOCATED IN THE CHANNEL BOTTOM USE A DOUBLE ROW OF STAPLES/STAKES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER AROUND THE ENTIRE DRAIN INLET STRUCTURE.



**CRITICAL POINTS**  
 A. OVERLAPS AND SEAMS  
 B. PROJECTED WATER LINE  
 C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

**NOTE:**  
 \* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.  
 \*\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

### Permanent Seeding - Upstate

Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bahia Grass (Alone)	40												
Bahia Grass (Mix)	30												
Bermuda Grass (hulled) (Alone)	8-12												
Bermuda Grass (hulled) (Mix)	4-6												
Fescue Tall (KY31) Alone	40												
Fescue Tall (KY31) mix	20												
Sericea Lespedeza (Scarified) Alone or Mix (inoculate with EL Inoculant)	40												
Ladino Clover (mix only) Inoculate with AB Inoculant	2												

### For Steep Slopes/Cut Slopes

Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												
Crownvetch (Mix) (Inoculate with Type M Inoculant)	8-10												

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												

**REFERENCES**

ASCE MANUAL OF PRACTICE  
 EROSION CONTROL MANUAL  
 2000 EDITION

**SCDOT**  
 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DESIGN STANDARDS OFFICE  
 900 PARK STREET  
 COLUMBIA, SC 29201

NO. 21242

DATE: 11-18-2016

DESIGNER: [Signature]

CHECKER: [Signature]

SCALE: 1/8" = 1'-0"

PROJECT: [Blank]

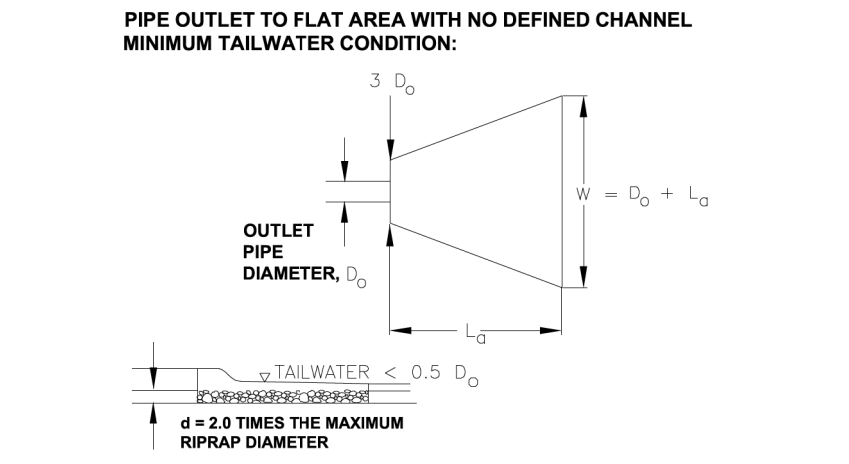
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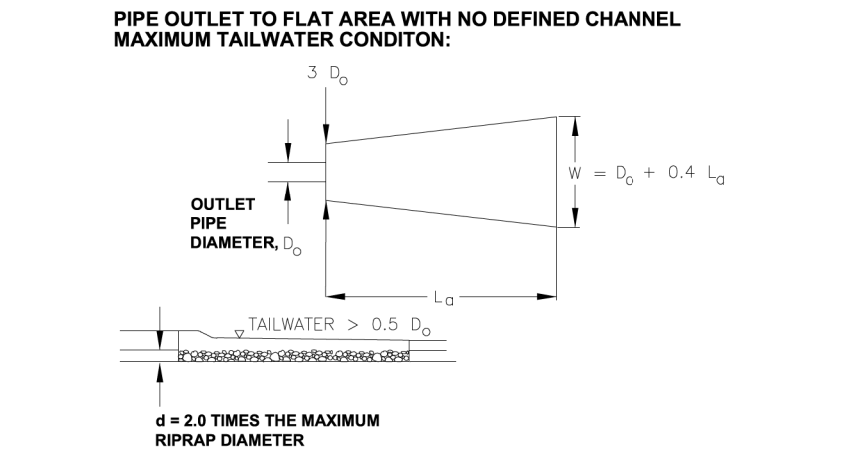
SCDOT  
 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DESIGN STANDARDS OFFICE  
 900 PARK STREET  
 COLUMBIA, SC 29201

STANDARD DRAWING  
 OUTLET PROTECTION  
 WITH NO DEFINED  
 CHANNEL

B04-305-03  
 SHEET 03 OF 03



PIPE INSIDE DIAMETER (D <sub>i</sub> ) (FT)	MAX PIPE SLOPE	OUTLET PROTECTION DIMENSIONS			MN RIPRAP CLASS	RIPRAP DEPTH (d) (FT)
		3D <sub>o</sub> (FT)	L <sub>o</sub> (FT)	W (FT)		
1.5	≤ 1%	6	10	12	A	1.5
1.5	2%	6	14	16	A	1.5
1.5	5%	6	19	21	B	2.7
2.0	≤ 1%	8	14	17	A	1.5
2.0	2%	8	19	22	B	2.7
2.0	5%	8	26	29	B	2.7
2.5	≤ 1%	10	18	21	A	1.5
2.5	2%	10	25	28	B	2.7
2.5	5%	10	34	37	C	3.6
3.0	≤ 1%	12	24	28	B	2.7
3.0	2%	12	32	36	B	2.7
3.0	5%	12	42	46	C	3.6
3.5	≤ 1%	14	28	33	B	2.7
3.5	2%	14	37	42	C	3.6
3.5	5%	14	48	53	C	3.6
4.0	≤ 1%	16	33	38	B	2.7
4.0	2%	16	43	48	C	3.6



PIPE INSIDE DIAMETER (D <sub>i</sub> ) (FT)	MAX PIPE SLOPE	OUTLET PROTECTION DIMENSIONS			MN RIPRAP CLASS	RIPRAP DEPTH (d) (FT)
		3D <sub>o</sub> (FT)	L <sub>o</sub> (FT)	W (FT)		
1.5	≤ 1%	6	3	6	A	1.5
1.5	2%	6	23	11	A	1.5
1.5	5%	6	40	18	A	1.5
2.0	≤ 1%	8	14	8	A	1.5
2.0	2%	8	30	15	A	1.5
2.0	5%	8	55	25	B	2.7
2.5	≤ 1%	10	20	11	A	1.5
2.5	2%	10	39	19	A	1.5
2.5	5%	10	66	30	B	2.7
3.0	≤ 1%	12	27	15	A	1.5
3.0	2%	12	55	26	A	1.5
3.0	5%	12	91	40	C	3.6
3.5	≤ 1%	14	33	18	A	1.5
3.5	2%	14	66	31	B	2.7
3.5	5%	14	106	47	C	3.6
4.0	≤ 1%	16	42	22	A	1.5
4.0	2%	16	78	37	B	2.7

- NOTES:**
- 1) THESE TABLES ARE ONLY APPLICABLE FOR THE PIPE SIZES AND MAXIMUM PIPE SLOPES LISTED.
  - 2) LARGER PIPES OR GREATER SLOPES REQUIRE ALTERNATIVE OUTLET PROTECTION DESIGN.
  - 3) WHEN PLANS SPECIFY LARGER OR DIFFERENT OUTLET PROTECTION THAN SHOWN IN TABLES, INSTALL OUTLET PROTECTION PER THE PLANS.
  - 4) SEE DRAWING # B04-305-02 FOR MORE INFORMATION ON OUTLET PROTECTION DIMENSIONS.

THIS DRAWING IS NOT TO SCALE.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	CHESTERFIELD	23-04464-001			EC-4	-



SC HWY 151  
AKA W. BOBO NEWSOM HWY  
SCDOT PROJECT ID # 13.541



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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3			
2			
1			

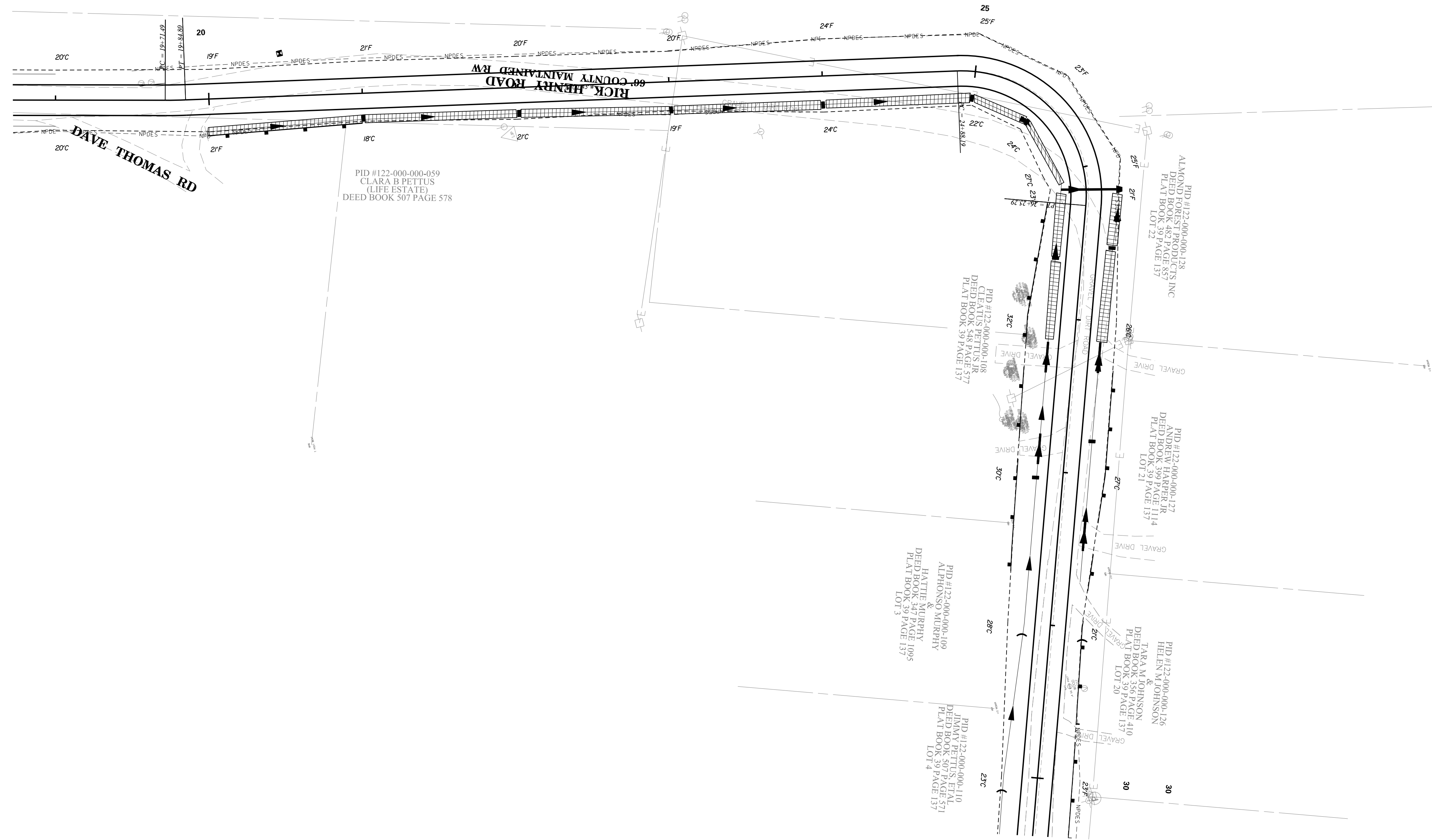
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DWG. _____	DATE _____
RW _____	DATE _____

CHESTERFIELD COUNTY

EROSION CONTROL SHEET

SCALE 1"= 40'     RTE. \_\_\_     DWG. NO. \_\_\_

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	CHESTERFIELD	21-04464-001			EC-6	-



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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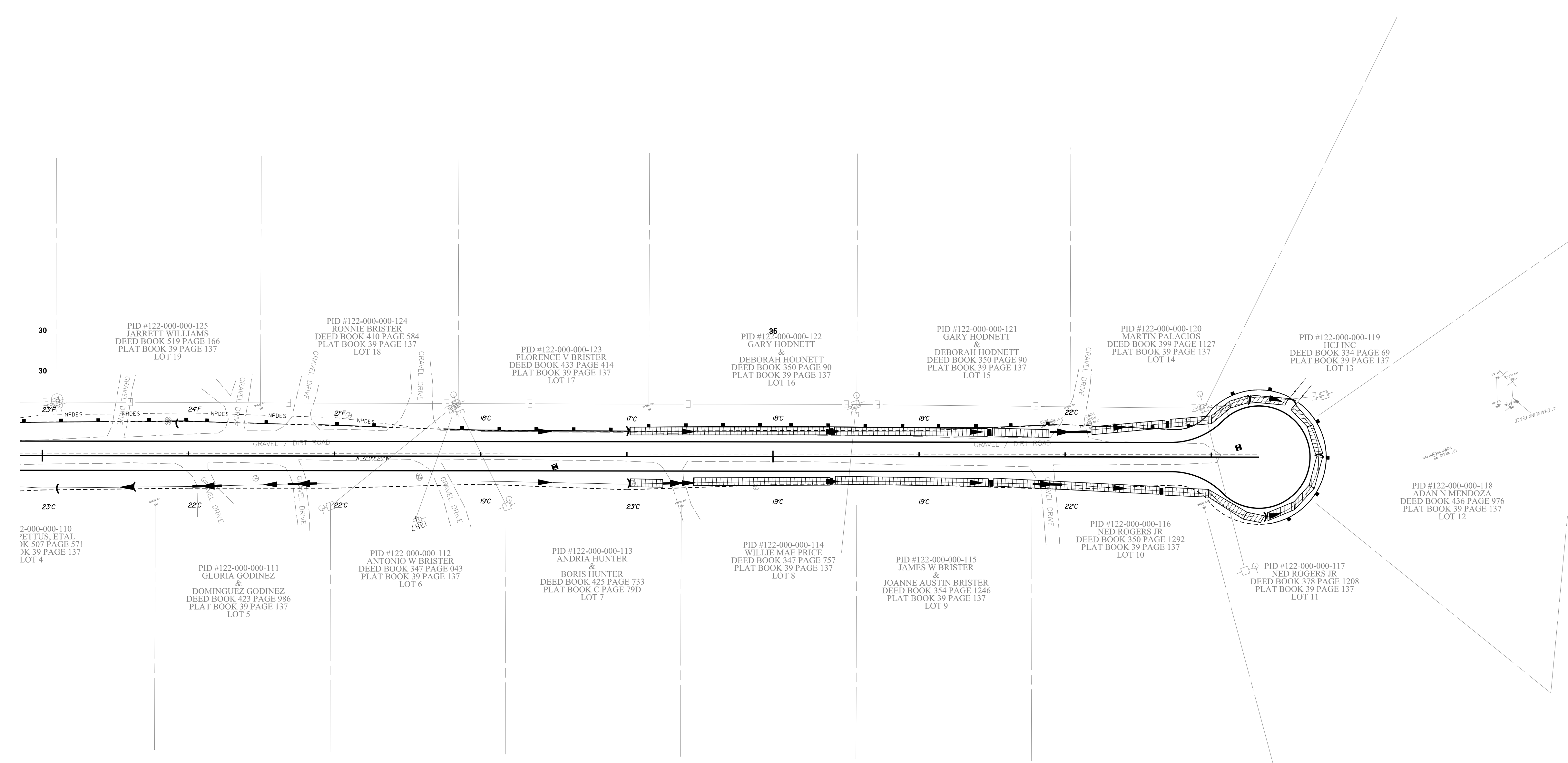
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DWG. _____	DATE _____
RW _____	DATE _____

**CHESTERFIELD COUNTY**

*EROSION CONTROL SHEET*

SCALE 1"= 40'      RTE. \_\_\_\_\_      DWG. NO. \_\_\_\_\_

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	CHESTERFIELD	21-04464-001			EC-6	-



PID #122-000-000-125  
JARRETT WILLIAMS  
DEED BOOK 519 PAGE 166  
PLAT BOOK 39 PAGE 137  
LOT 19

PID #122-000-000-124  
RONNIE BRISTER  
DEED BOOK 410 PAGE 584  
PLAT BOOK 39 PAGE 137  
LOT 18

PID #122-000-000-123  
FLORENCE V BRISTER  
DEED BOOK 433 PAGE 414  
PLAT BOOK 39 PAGE 137  
LOT 17

PID #122-000-000-122  
GARY HODNETT  
&  
DEBORAH HODNETT  
DEED BOOK 350 PAGE 90  
PLAT BOOK 39 PAGE 137  
LOT 16

PID #122-000-000-121  
GARY HODNETT  
&  
DEBORAH HODNETT  
DEED BOOK 350 PAGE 90  
PLAT BOOK 39 PAGE 137  
LOT 15

PID #122-000-000-120  
MARTIN PALACIOS  
DEED BOOK 399 PAGE 1127  
PLAT BOOK 39 PAGE 137  
LOT 14

PID #122-000-000-119  
HCJ INC  
DEED BOOK 334 PAGE 69  
PLAT BOOK 39 PAGE 137  
LOT 13

PID #122-000-000-118  
ADAN N MENDOZA  
DEED BOOK 436 PAGE 976  
PLAT BOOK 39 PAGE 137  
LOT 12

2-000-000-110  
ETTUS, ETAL  
BK 39 PAGE 571  
LOT 4

PID #122-000-000-111  
GLORIA GODINEZ  
&  
DOMINGUEZ GODINEZ  
DEED BOOK 423 PAGE 986  
PLAT BOOK 39 PAGE 137  
LOT 5

PID #122-000-000-112  
ANTONIO W BRISTER  
DEED BOOK 347 PAGE 043  
PLAT BOOK 39 PAGE 137  
LOT 6

PID #122-000-000-113  
ANDRIA HUNTER  
&  
BORIS HUNTER  
DEED BOOK 425 PAGE 733  
PLAT BOOK C PAGE 79D  
LOT 7

PID #122-000-000-114  
WILLIE MAE PRICE  
DEED BOOK 347 PAGE 757  
PLAT BOOK 39 PAGE 137  
LOT 8

PID #122-000-000-115  
JAMES W BRISTER  
&  
JOANNE AUSTIN BRISTER  
DEED BOOK 354 PAGE 1246  
PLAT BOOK 39 PAGE 137  
LOT 9

PID #122-000-000-116  
NED ROGERS JR  
DEED BOOK 350 PAGE 1292  
PLAT BOOK 39 PAGE 137  
LOT 10

PID #122-000-000-117  
NED ROGERS JR  
DEED BOOK 378 PAGE 1208  
PLAT BOOK 39 PAGE 137  
LOT 11

KMarpe  
umant's Projects\2021\21-04464-001\JMT\Highway and Civil\2D Drawing\Design\EC\_SHEETS  
5/10/2023



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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3			
2			
1			

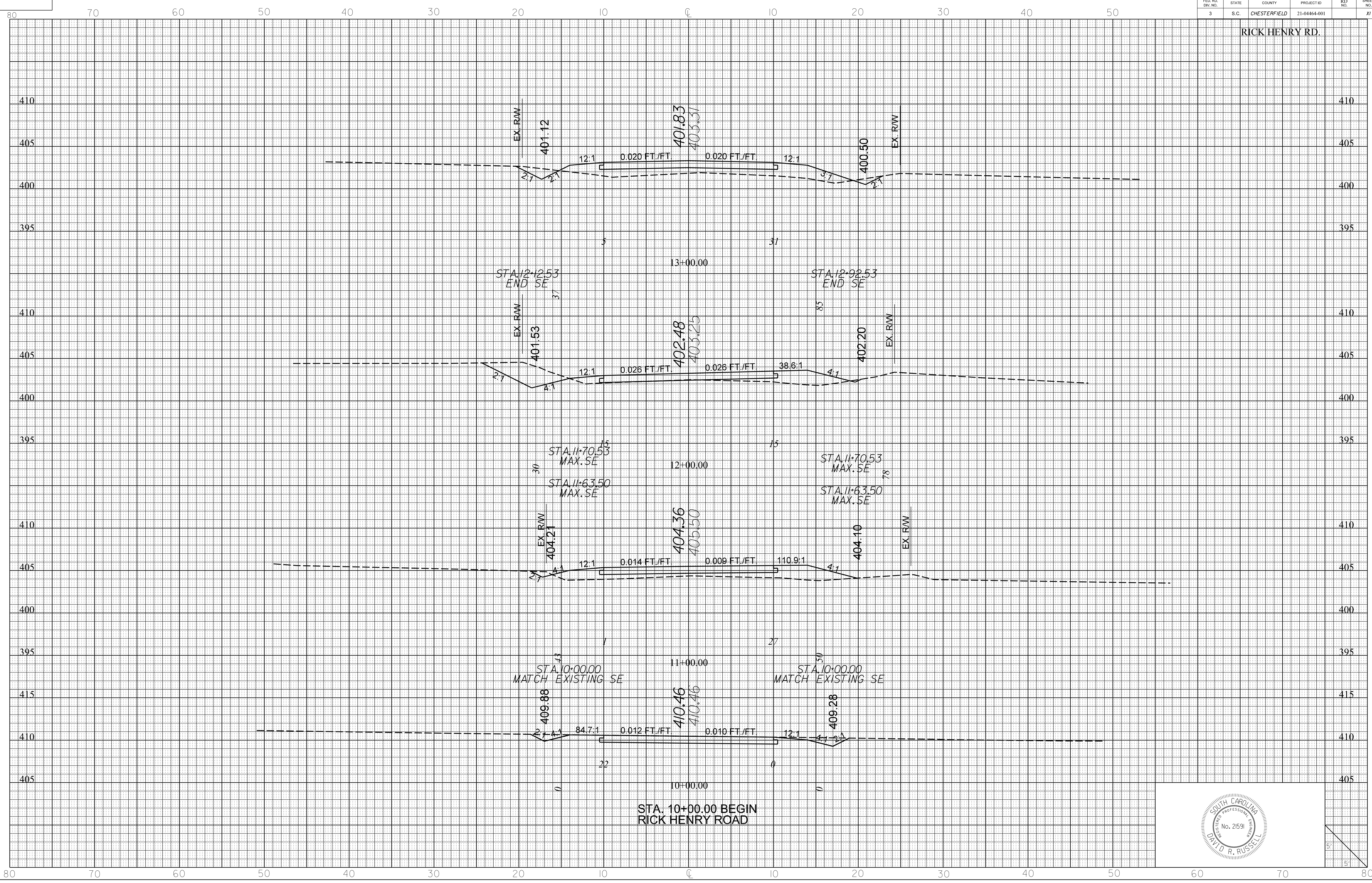
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DWG. _____	DATE _____
RW _____	DATE _____

CHESTERFIELD COUNTY	
<i>EROSION CONTROL SHEET</i>	
SCALE 1"= 40'	RTE. _____ DWG. NO. _____



FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RD NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		17

RICK HENRY RD.



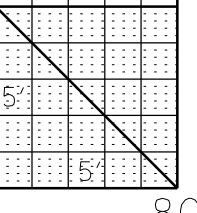
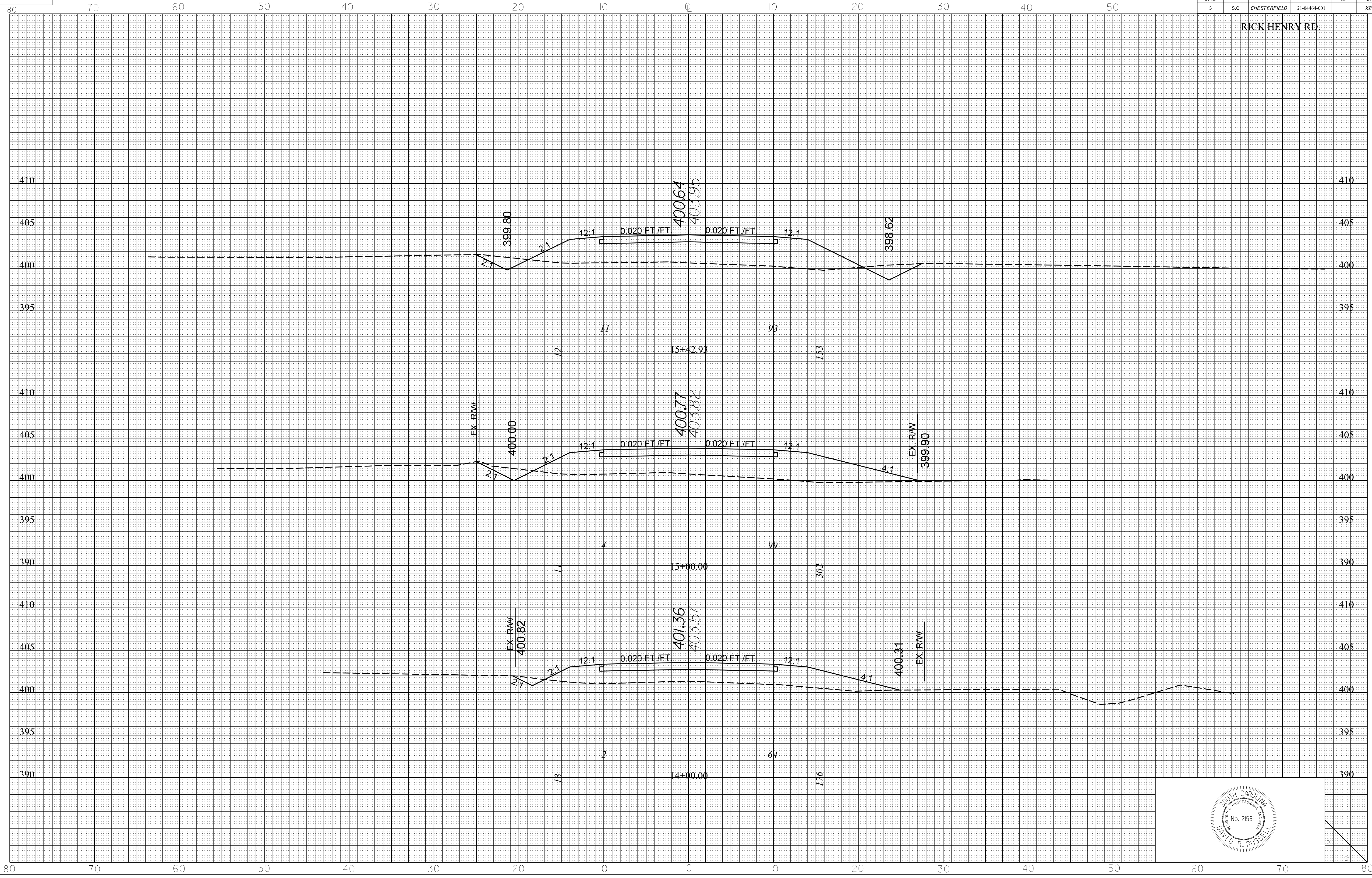
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 KMorpe

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RD NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		X2

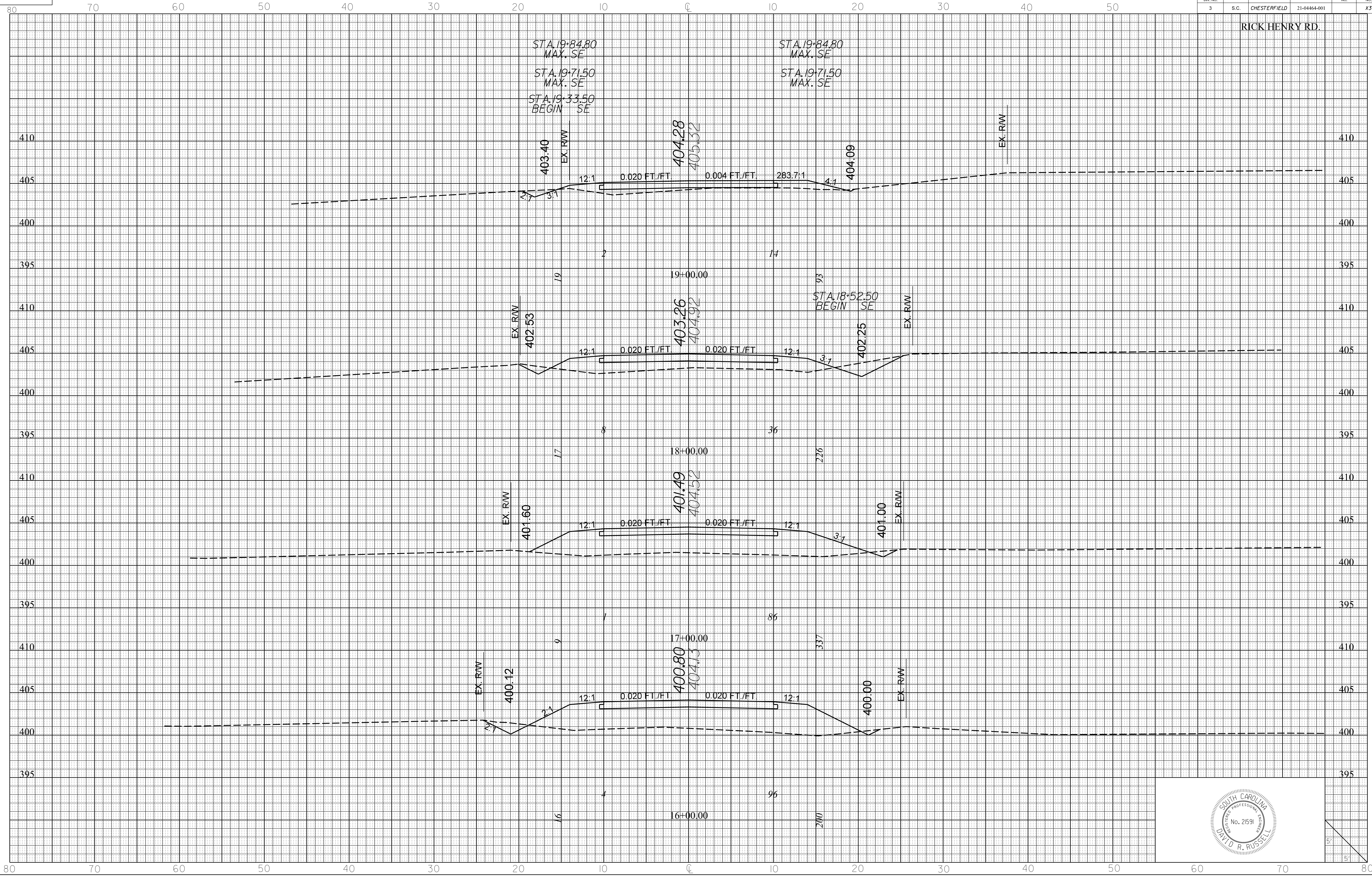
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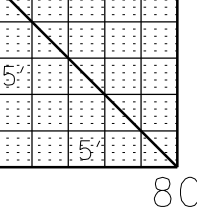
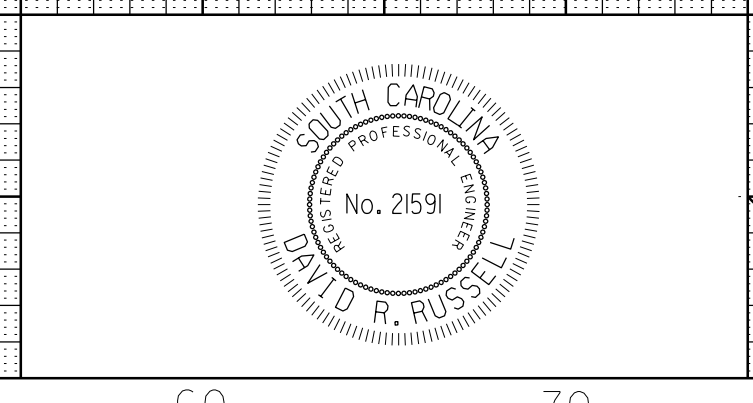
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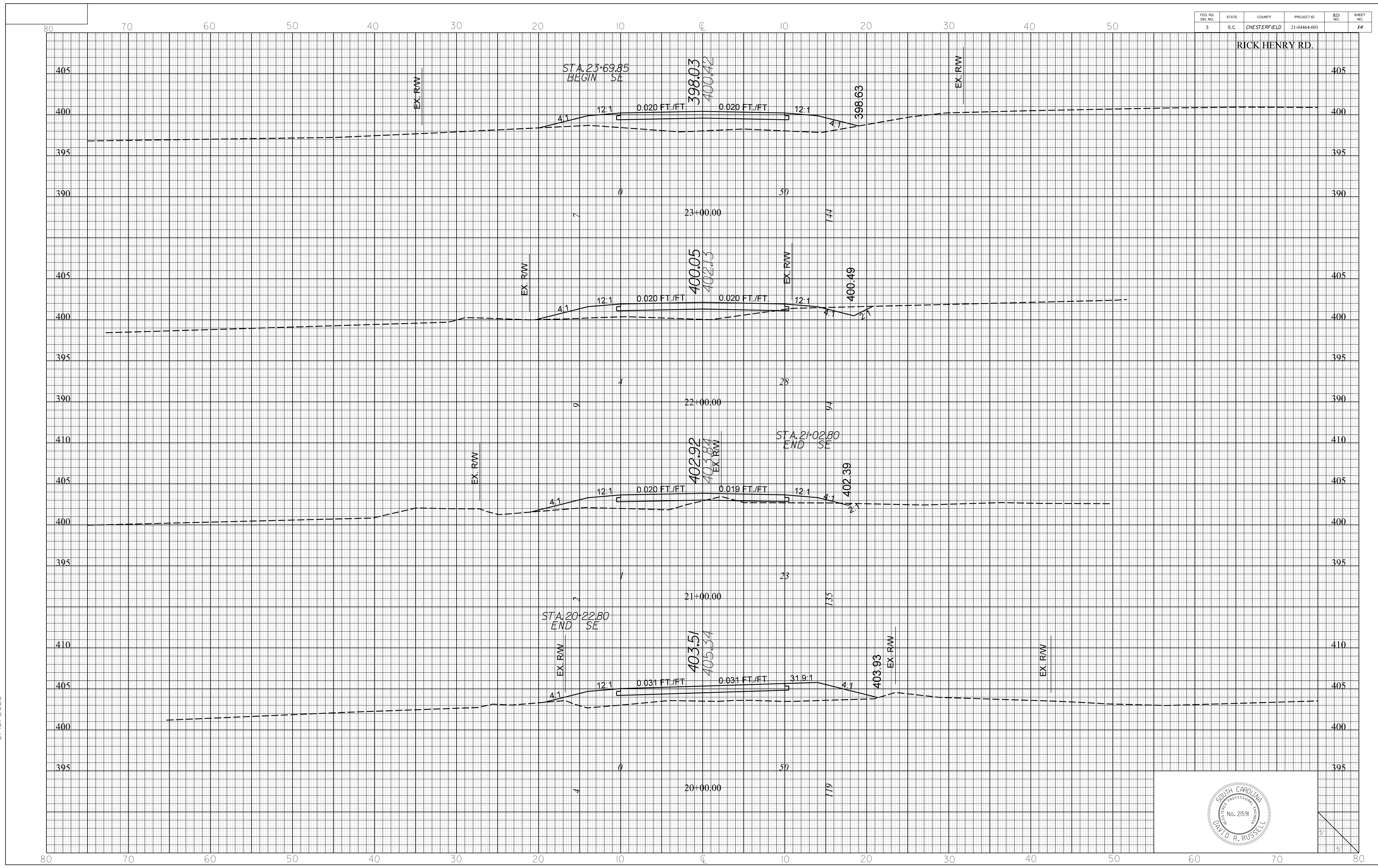


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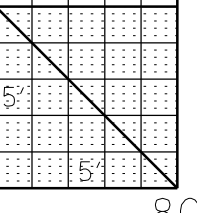


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3	S.C.	CHESTERFIELD	21-04464-001		44

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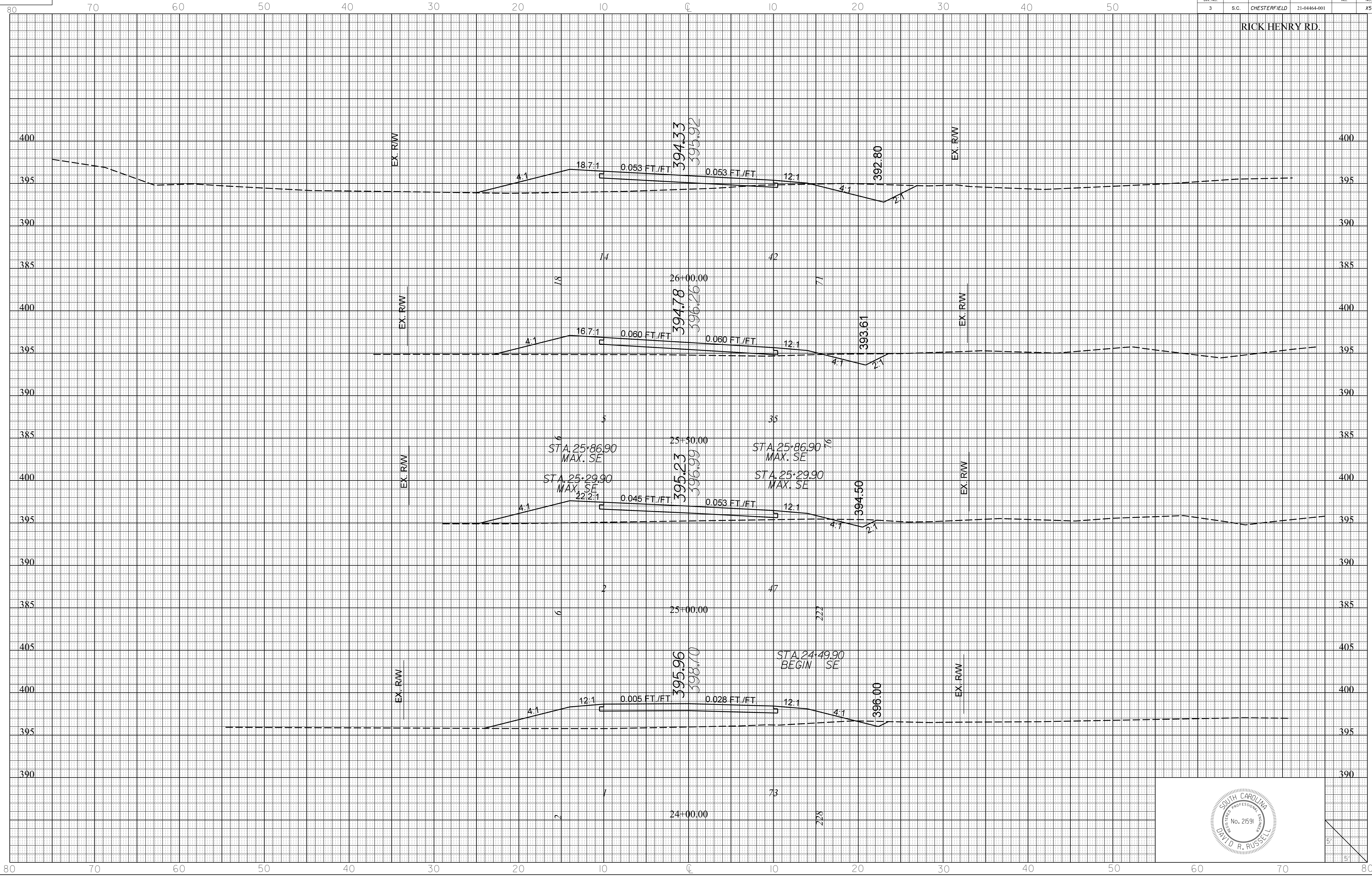
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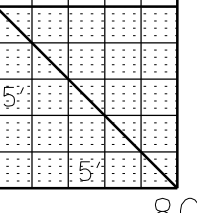


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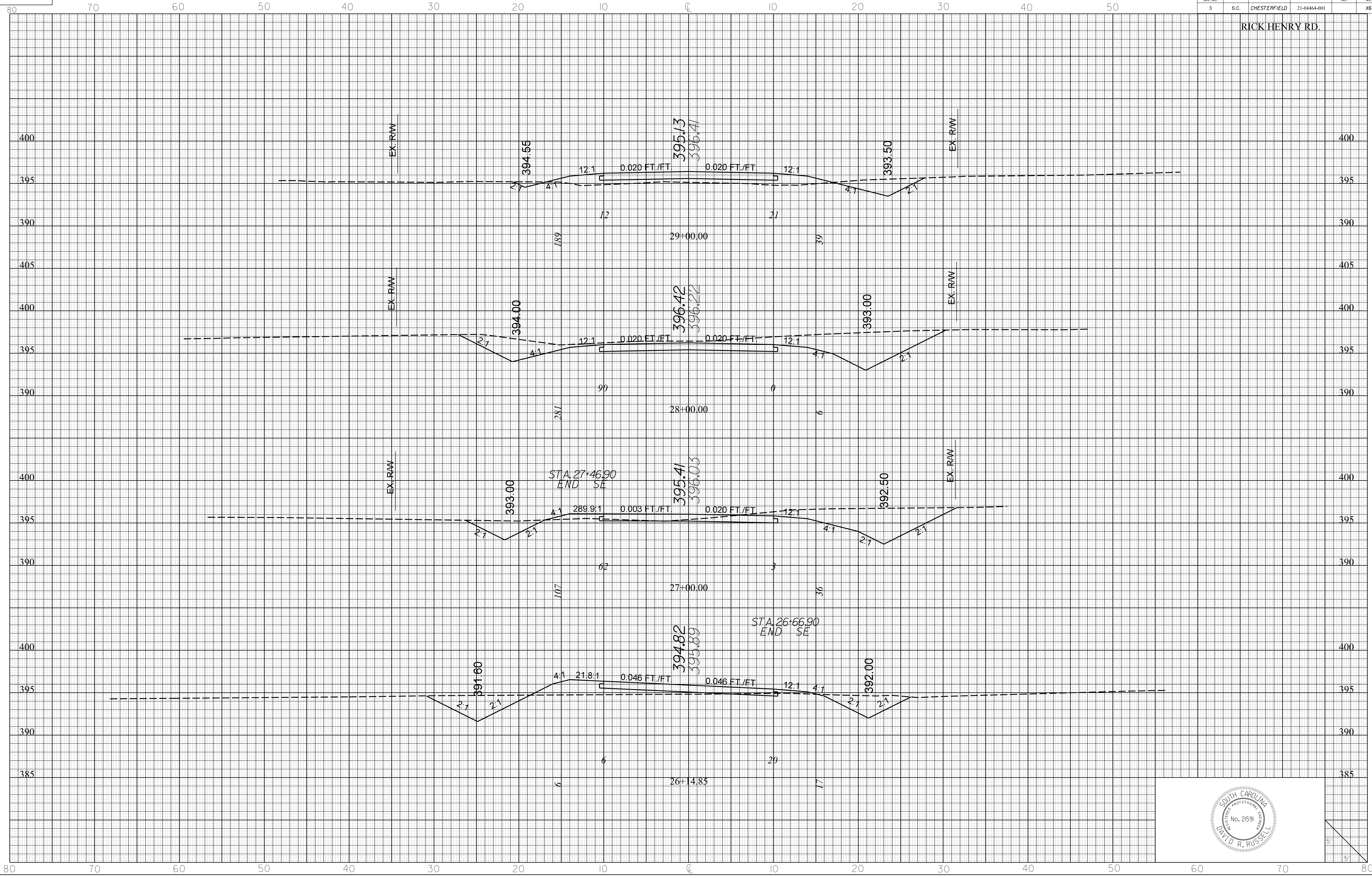


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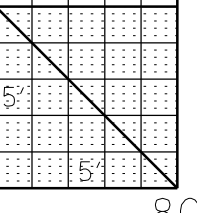


FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	R/D NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		X6

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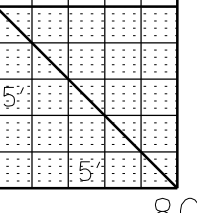
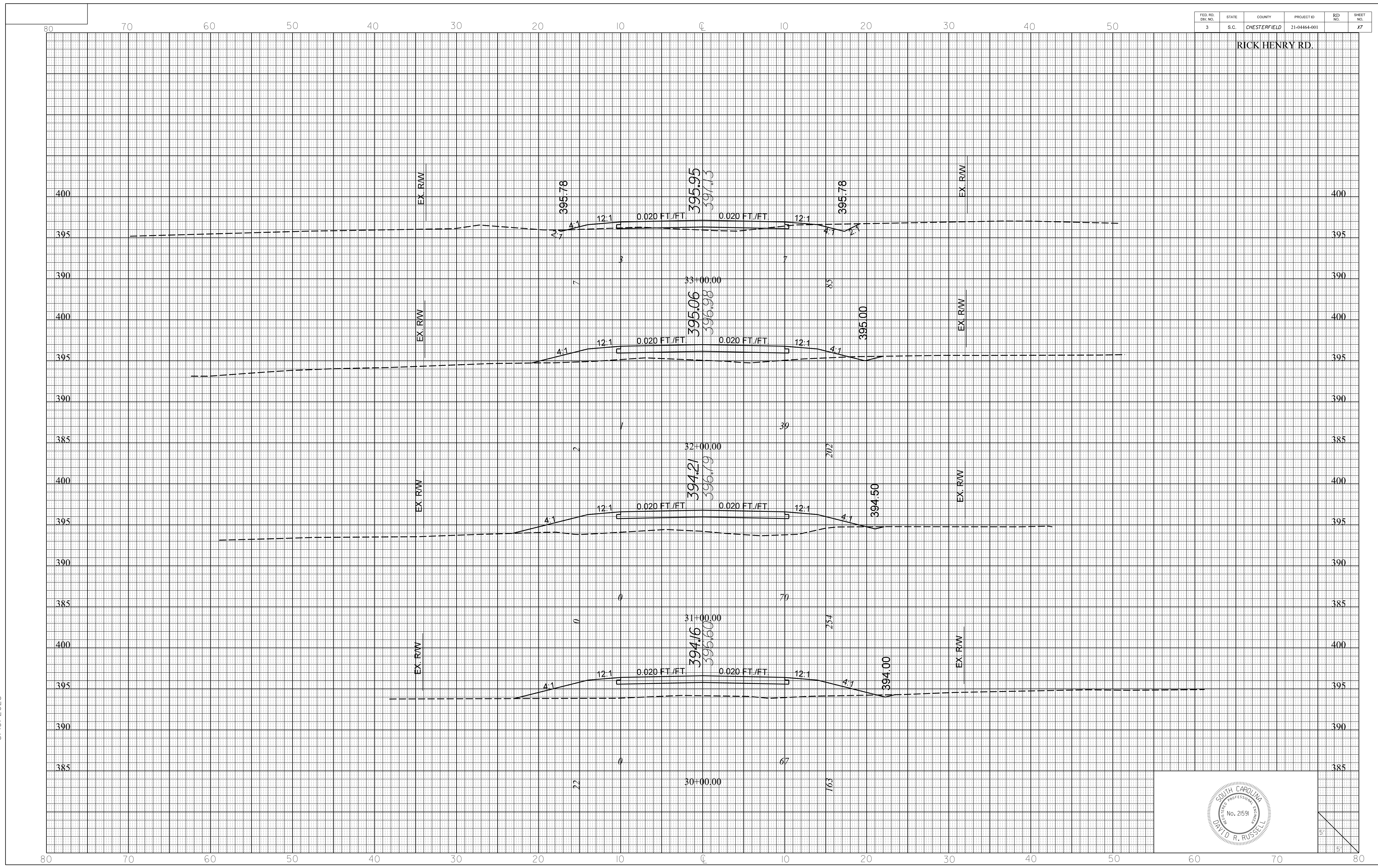




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KMorpe  
5/10/2023

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3	S.C.	CHESTERFIELD	21-04464-001		X7

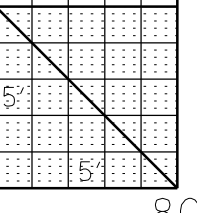
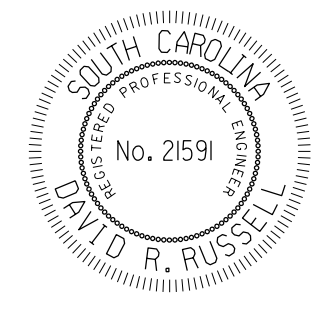
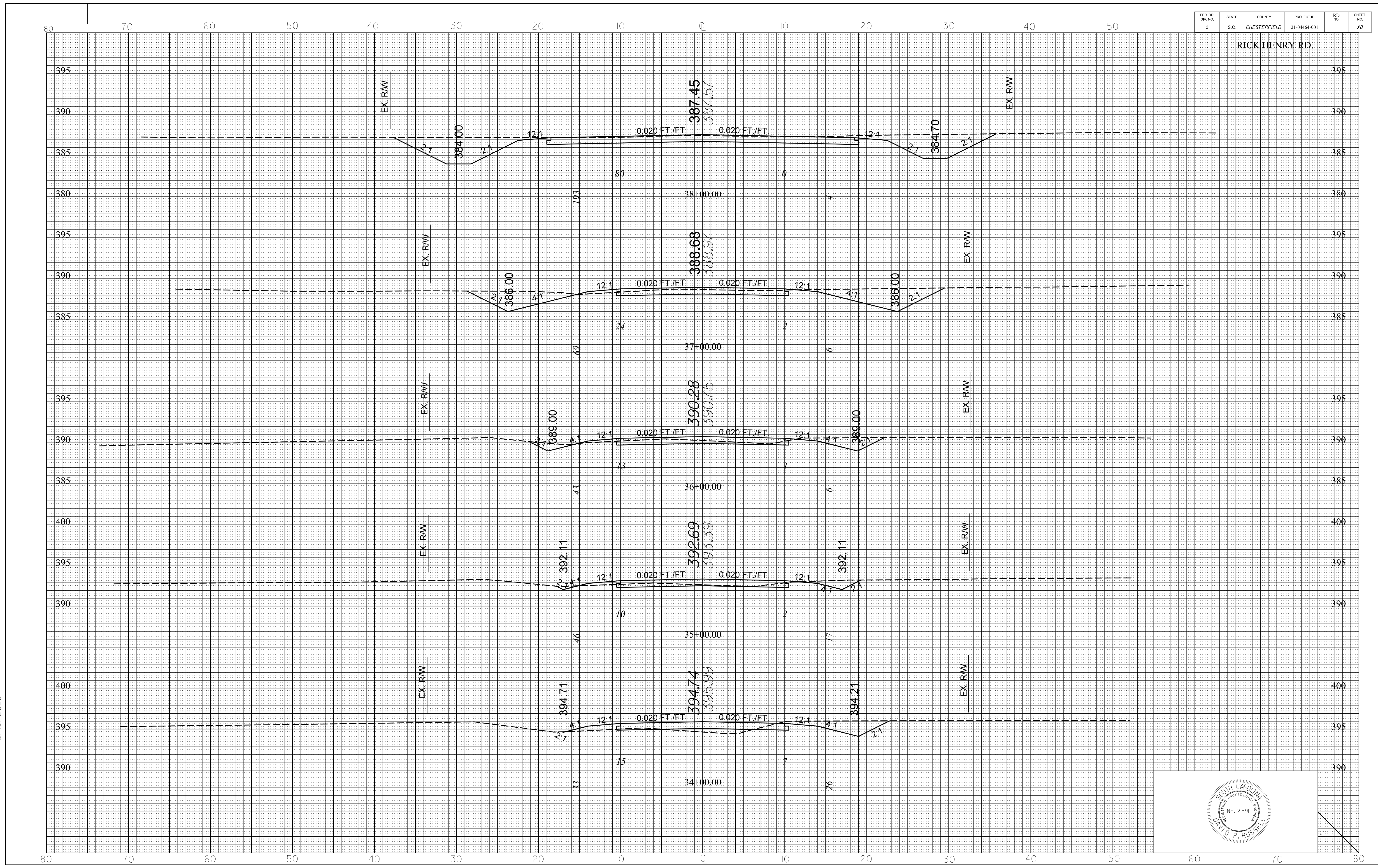
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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	RD NO.	SHEET NO.
3	S.C.	CHESTERFIELD	21-04464-001		X8

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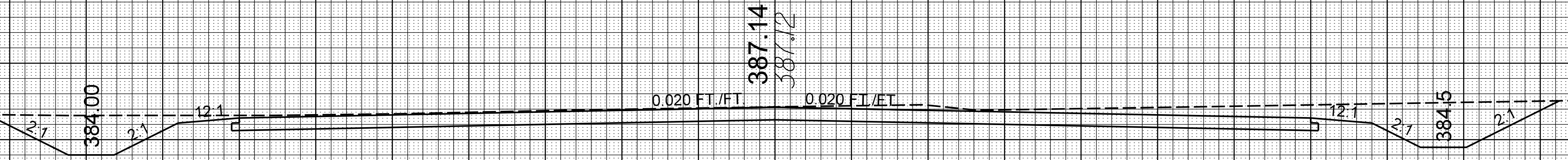
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3	S.C.	CHESTERFIELD	21-04464-001		X9

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RICK HENRY ROAD

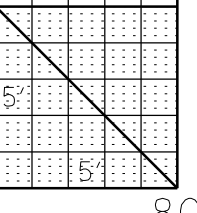
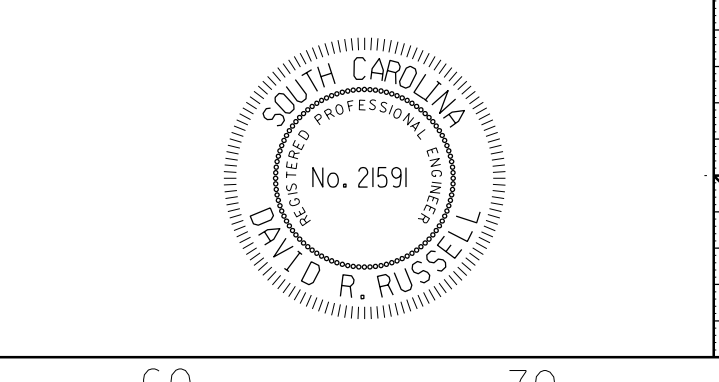


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38+32.56

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