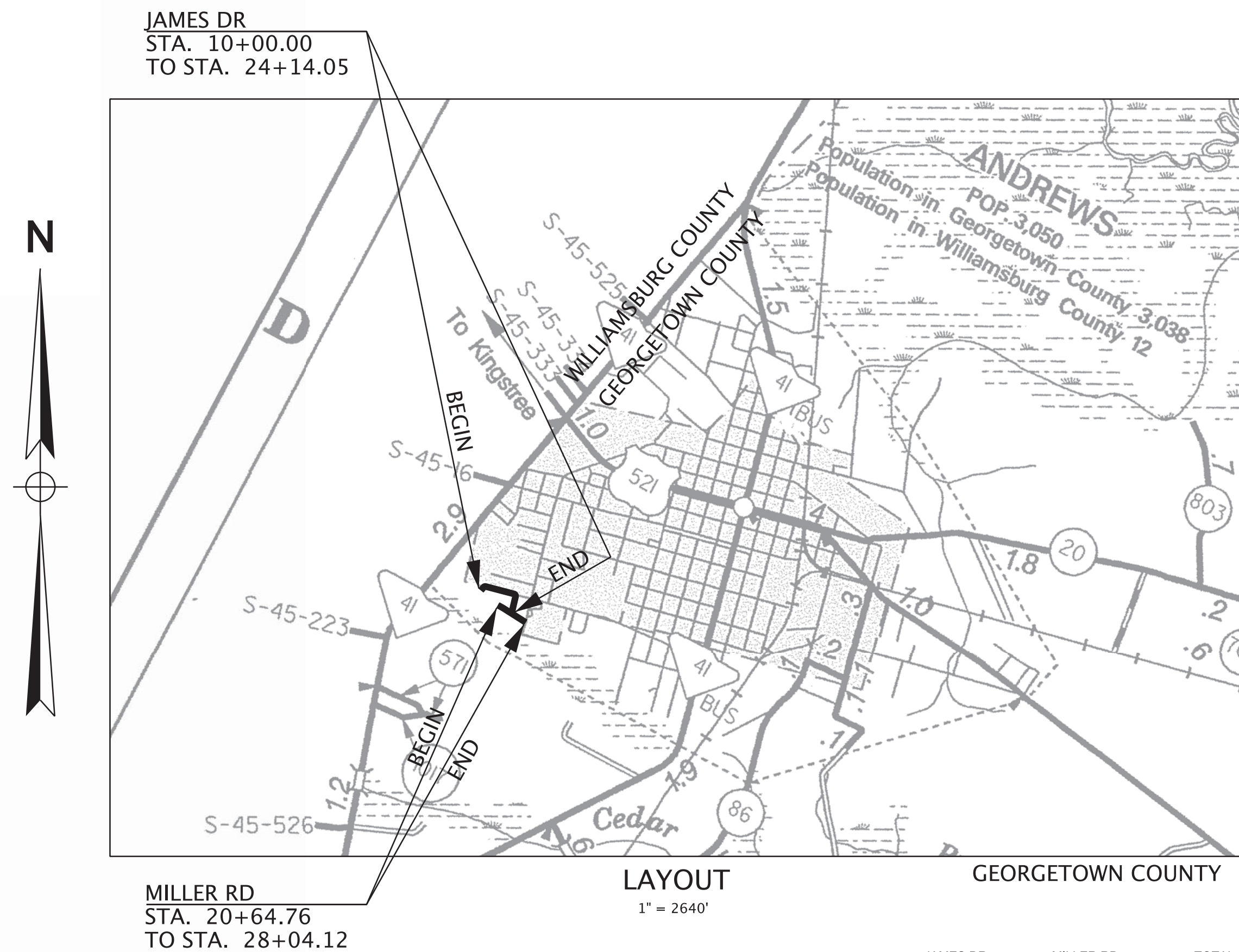


# GEORGETOWN COUNTY DEPARTMENT OF PUBLIC SERVICES DIVISION OF PUBLIC WORKS

CONSTRUCTION PLANS

## PLAN OF PROPOSED IMPROVEMENTS FOR JAMES DRIVE AND MILLER ROAD



NPDES PERMIT INFORMATION	
NPDES Disturbed Area = <u>1.8</u> Acres	
Approximate Location of Roadway is:	
Longitude	<u>79° 34' 49.9" W</u>
Latitude	<u>33° 26' 38.3" N</u>
Hydrology and NPDES Design provided by:	
<u>Davis &amp; Floyd, Inc.</u>	

	JAMES DR	MILLER RD	TOTAL
NET LENGTH OF ROADWAY	0.268 MILES	0.140 MILES	0.408 MILES
NET LENGTH OF OUTFALL	0.000 MILES	0.000 MILES	0.000 MILES
NET LENGTH OF PROJECT	0.268 MILES	0.140 MILES	0.408 MILES
LENGTH OF EXCEPTIONS	0.000 MILES	0.000 MILES	0.000 MILES
GROSS LENGTH OF PROJECT	0.268 MILES	0.140 MILES	0.408 MILES

NOTE: ALL WORKMANSHIP AND MATERIALS ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION), AND BOOK OF STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

RAILROAD INVOLVEMENT?
YES / <input type="radio"/> NO

### SUMMARY OF ESTIMATED ROADWAY QUANTITIES

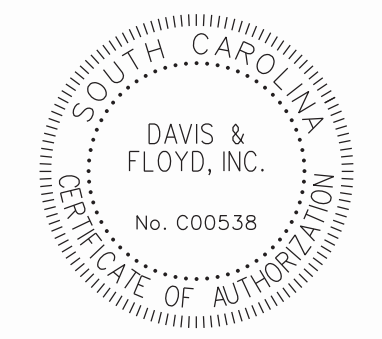

ITEM NO.	PAY ITEM	UNIT	QUANTITY
1031000	MOBILIZATION	LS	NEC
1050800	CONSTRUCTION STAKES, LINES & GRADES	EA	1.000
1061100	QUALITY CONTROL FOR EARTHWORK	LS	1.000
1061200	QUALITY CONTROL FOR BASES AND SUBBASES	LS	1.000
1071000	TRAFFIC CONTROL	LS	NEC
1090200	AS-BUILT CONSTRUCTION PLANS	LS	1.000
2011000	CLEARING & GRUBBING WITHIN RIGHT OF WAY	LS	NEC
2031000	UNCLASSIFIED EXCAVATION	CY	2,393.000
2033000	BORROW EXCAVATION	CY	2,370.000
2034000	MUCK EXCAVATION	CY	25.000
2081001	FINE GRADING	LS	NEC
3050108	GRADED AGGREGATE BASE COURSE (8" UNIFORM)	SY	6,550.000
3069900	MAINTENANCE STONE	TON	85.000
4010005	PRIME COAT	GAL	1,769.000
4011004	LIQUID ASPHALT BINDER PG64-22	TON	38.000
4030340	HOT MIX ASPHALT SURFACE COURSE TYPE C	TON	625.000
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	86.000
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	LF	35.000
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	LF	35.000
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	SF	69.500
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	LF	90.000
6584690	BARRICADE - PERMANENT WITH TYPE III SHEETING	LF	18.000
7141122	15" RC PIPE CUL.-CLASS IV	LF	44.000
7141132	15" RC PIPE CUL.-CLASS V	LF	656.000
7141123	18" RC PIPE CUL.-CLASS IV	LF	84.000
8041010	RIP-RAP (CLASS A)	TON	90.000
8048215	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE D	SY	153.000
8080000	MOVING ITEMS	LS	NEC
8100001	PERMANENT VEGETATION	MSY	6.828
8103100	TEMPORARY VEGETATION	MSY	6.828
8151110	TEMPORARY EROSION CONTROL BLANKET (ECB)	MSY	4.909
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	ACRE	2.840
8152007	SEDIMENT TUBES FOR DITCH CHECKS	LF	272.000
8153000	SILT FENCE	LF	4,512.000
8156490	STABILIZED CONSTRUCTION ENTRANCE	SY	275.000

### INDEX OF SHEETS

SHEET #	DESCRIPTION	SHEET TOTALS
1	TITLE SHEET	1
3	TYPICAL SECTIONS	1
5	GENERAL CONSTRUCTION NOTES	1
5A	REFERENCE DATA SHEET	1
6 - 10	PLAN AND PROFILE SHEETS	5
EC1	EROSION CONTROL NOTES	1
X1 - X19	CROSS SECTIONS	19
D1 - D9	STANDARD DRAWINGS	9
TOTAL SHEETS		38

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

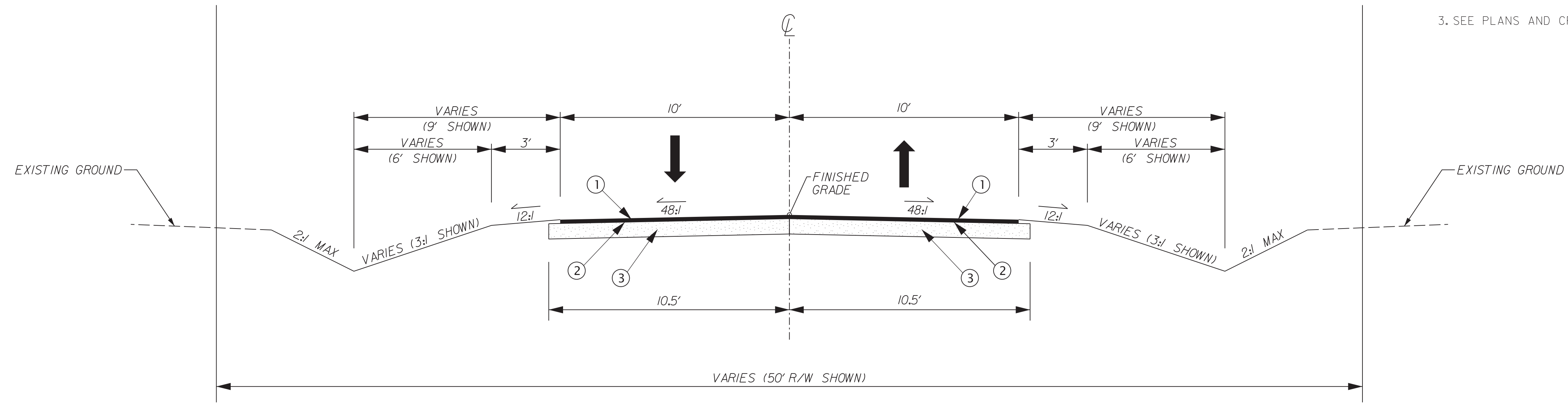
**DAVIS & FLOYD**  
SINCE 1954

CONSULTING ENGINEERING FIRM	CONSULTANT - PROJECT ENGINEER
	
FOR CONSTRUCTION: <u>February 28, 2018</u> DATE	

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	3	

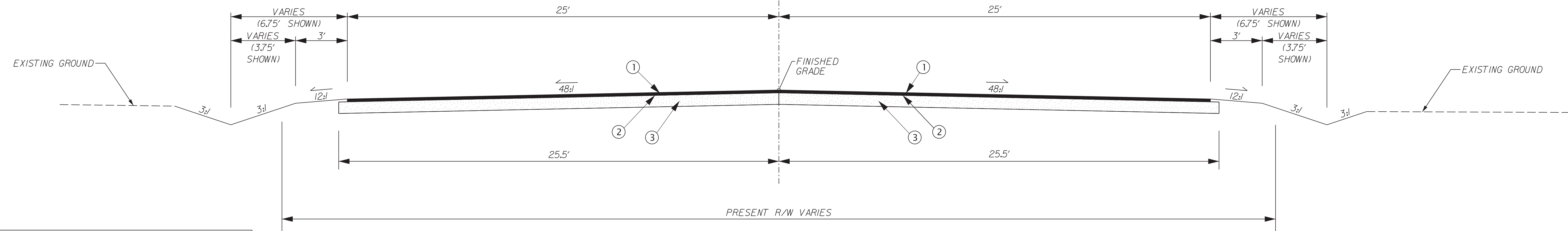
TYPICAL SECTIONS  
JAMES DR AND MILLER RD  
GEORGETOWN COUNTY

- NOTES:
1. PAVEMENT SLOPES, SHOULDER SLOPES, AND DITCH SLOPES WILL VARY FROM THOSE SHOWN ON TYPICAL SECTIONS. SEE CROSS SECTIONS.
  2. SEE PROFILES AND CROSS SECTIONS FOR LOCATIONS OF SPECIAL DITCHES.
  3. SEE PLANS AND CROSS SECTIONS FOR VARIATIONS IN PRESENT R/W WIDTHS.



TWO LANE TYPICAL SECTION  
JAMES DR  
STA. 10+00.00 TO STA. 24+14.05  
MILLER RD  
STA. 20+64.76 TO STA. 28+04.12

CENTER OF CUL-DE-SAC

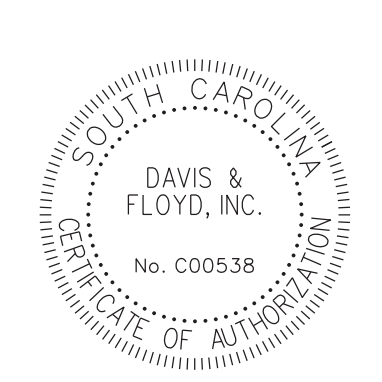
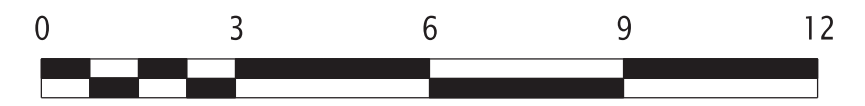


CUL-DE-SAC TYPICAL SECTION  
MILLER RD

WITHIN THE SCDOT R/W USE THE FOLLOWING PAVEMENT DESIGN  
H/M ASPHALT CONCRETE SURFACE COURSE TYPE B (220#/SY)  
H/M ASPHALT CONCRETE INTERMEDIATE COURSE TYPE B (440#/SY)  
H/M ASPHALT CONCRETE BASE COURSE TYPE B (450#/SY)

PAVEMENT LEGEND

①		H/M ASPHALT CONCRETE SURFACE COURSE TYPE B (220#/SY)
②		PRIME COAT
③		8" GRADED AGGREGATE BASE COURSE



**DAVIS & FLOYD**  
SINCE 1954

3229 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1			
DGN.	DMD	DATE	6/8/17
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

TYPICAL SECTION  
JAMES DR AND MILLER RD

SCALE 1" = 3'

SCALE: 2.973 ft. / in.  
 PEN TABLE: 11-17RW-TBL  
 PLOT DRIVER: pscprc.plt  
 FILE: G:\Jobseven\31742-09\Production\Transportation\Const\plpr\03 typical.dgn  
 5/15/2018

# CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	5	

## GENERAL CONSTRUCTION NOTES:

THE CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD CONSTRUCTION (LATEST EDITION), SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), SCDOT TRAFFIC SIGNAL SPECIFICATIONS, AND THE MUTCD, 2009 EDITION.

THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT THE TRANSFER OF SUSPENDED SOLIDS AND/OR CHEMICAL SOLUTIONS OFF-SITE, AND TO PREVENT EXCESSIVE SILTATION OF EXISTING DRAINAGE PIPES, CULVERTS, AND DITCHES. THE CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN THESE DEVICES. ALL CHECK DAMS AND RIPRAP SHOWN ARE CLASS A UNLESS OTHERWISE STATED.

THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE FACILITIES SHOWN ON THE PLANS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE PROPER COORDINATION WITH THE VARIOUS UTILITY OWNERS HAS BEEN PERFORMED. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY DURING RELOCATION OPERATIONS.

THE LOCATION OF UTILITIES SHOWN IN THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS DESIGNATED BY A TEST HOLE. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR OR COORDINATE WITH UTILITY OWNERS TO REPAIR ANY DAMAGES DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVEL WAY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMISSION TO STORE EQUIPMENT ON ADJACENT PROPERTIES.

PIPE LENGTHS THAT ARE SHOWN ON THE PLANS ARE ROUNDED TO THE NEAREST 4' INCREMENT AND CALCULATED ALONG THE PIPE SLOPE FROM END OF PIPE TO END OF PIPE. FIELD ADJUSTMENTS OF THE ACTUAL PIPE LENGTHS MAY BE NECESSARY.

ANY COSTS ASSOCIATED WITH REMOVING EXISTING PIPE SHALL BE INCLUDED IN THE COST OF PLACING NEW PIPE.

FINAL SURFACE COURSE ON ALL ROADWAYS SHALL NOT BE PLACED UNTIL ALL DRAINAGE INSTALLATIONS ARE COMPLETE.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROPER DEWATERING PROCEDURES TO PREVENT THE FLOW AND ACCUMULATION OF SURFACE AND GROUND WATER IN EXCAVATED AREAS. ALL OF THE WATER PUMPED OR DRAINED SHALL BE DISPOSED OF WITHOUT UNDUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO PAVEMENTS AND OTHER SURFACES OR PROPERTY. DISCHARGED WATER FROM ALL DEWATERING OPERATIONS SHALL BE FILTERED IN ACCORDANCE WITH SCDHEC OR OCRM REGULATIONS OR AS APPROVED BY THE ENGINEER. A PLAN FOR DEWATERING SHALL BE SUBMITTED TO THE RESIDENT CONSTRUCTION ENGINEER AND OCRM FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED WHERE DEWATERING IS REQUIRED. ONCE APPROVED AN ADDITIONAL COPY OF THE PLAN SHOULD BE PROVIDED TO GEORGETOWN COUNTY PUBLIC WORKS.

THE CONTRACTOR SHALL PROVIDE A DETAILED CONTRACTOR'S EROSION CONTROL PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO COMMENCING ANY WORK ON THE PROJECT.

THE CONTRACTOR SHALL PROVIDE A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT CONSTRUCTION MANAGER FOR APPROVAL BEFORE STARTING ANY WORK ON THE PROJECT. THIS PLAN SHALL INCLUDE DETAILS CONCERNING PLACEMENT OF REFLECTORIZED BARRELS, CONES, AND/OR TYPE 2 BARRICADES IN ACCORDANCE WITH THE 2009 MUTCD.

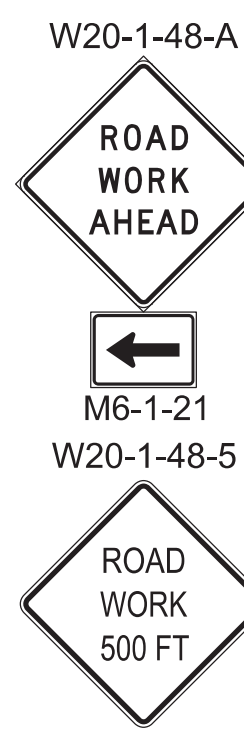
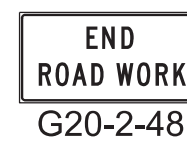
THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AS REQUIRED. PAYMENT FOR SUCH MEASURES IS INCLUDED IN THE BID PRICE FOR THE ITEM BEING CONSTRUCTED.

WHERE STORM PIPES AND STRUCTURES ARE IDENTIFIED TO BE ABANDONED IN PLACE, THE FOLLOWING PROCEDURES SHALL BE UTILIZED:

- PIPES: PLUG END(S) WITH BRICK AND GROUT.
- STRUCTURES: REMOVE RIM/COVER AND CONE OR TOP SLAB.  
PLUG PIPE OPENINGS WITH BRICK AND GROUT.  
FILL STRUCTURE WITH FLOWABLE FILL TO BOTTOM OF PAVEMENT SECTION.  
TEMPORARY ASPHALT IF NEEDED.

ANY COSTS ASSOCIATED WITH ABANDONING PIPES OR STRUCTURES SHALL BE INCLUDED IN THE COST OF PLACING NEW PIPE OR STRUCTURES ACCORDINGLY.

CONSTRUCTION SIGNS: CONSTRUCTION SIGN SETS SHALL BE PLACED ALONG BOTH APPROACHES OF THE ROADWAY INTERSECTING WITH THE PROJECT ROADWAY. ROAD WORK AHEAD AND DIRECTIONAL ARROW SIGNS ARE TO BE PLACED APPROXIMATELY 100' IN ADVANCE OF THE INTERSECTION OF THE ROAD UNDER CONSTRUCTION. END ROAD WORK SIGN SHOULD BE PLACED 50' AFTER THE INTERSECTION WITH THE PROJECT ROADWAY. NO SIGHTLINES FROM ROADWAYS OR DRIVEWAYS SHOULD BE AFFECTED BY THE PLACEMENT OF THE SIGNS.



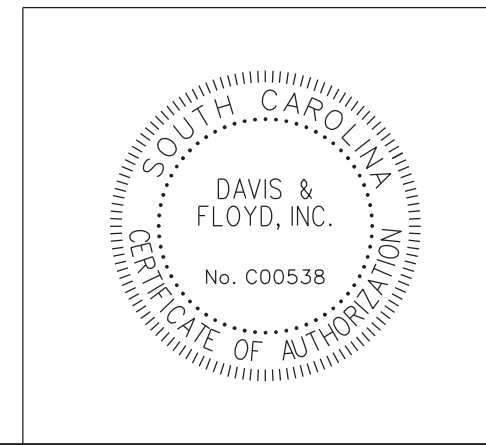
CONCRETE MARKER		STATE LINE		MARSH/SWAMP		BUILDING	
R/W MONUMENT	☒	NORTH CAROLINA	---	PAMPAS GRASS	~	RIVERS, CREEKS, STREAMS	~
PROPERTY CORNER	○	SOUTH CAROLINA	---	BENCHMARK	⊙ B.M. 124	EXISTING BOX CULVERT	--- ---
PROPERTY PIN	⊙	COUNTY LINE	---	SPOT ELEVATION	37.612	NEW BOX CULVERT	--- ---
SIGN	⊙	CITY LIMITS	---	FILL CAP FOR UNDERGROUND TANK	⊙	BRIDGE	--- ---
NEW SIGN	⊙	PRESENT RIGHT-OF-WAY /PROPERTY LINE	---	WITNESS POST	⊙	NPDES	--- ---
ELECTRIC PEDESTAL	⊙	PRESENT 50' R/W	---	PARKING METER	⊙	DRAINAGE DITCHES	--- ---
UNDERGROUND TANK	⊙	PRESENT 33' R/W	---	ELECTRIC OUTLET/RESIDENTIAL	⊙	NEW DRAINAGE STRUCTURES	--- ---
WELL	⊙	EXISTING CONTROL OF ACCESS	---	VACUUM/COMMERCIAL	⊙	EXISTING DRAINAGE STRUCTURES/PIPE	--- ---
AIR CONDITIONER	⊙	NEW RIGHT-OF-WAY	---	SEDIMENT DAM	⊙	NEW PIPE	--- ---
COLUMN	⊙	NEW 50' R/W	---	SEDIMENT FILTER	⊙	EXISTING PIPE	--- ---
RADIO/TV/CELLULAR TOWER	⊙	NEW 45' R/W	---	TREE/SHRUB (NOT SURVEYED)	⊙	NORTH ARROW	--- ---
SATELLITE DISH	⊙	NEW 22' R/W	---	TREE/SHRUB (SURVEYED)	⊙	FACE OF CURB	--- ---
GRAVE	⊙	CONSTRUCTION LIMITS	---	WOODED AREA OUTLINE	⊙	RAILROAD TRACK	--- ---
SPRING	⊙	EXISTING FENCE	---	R/R CROSSING ARM	⊙	EXISTING GUARDRAIL w/ TYPE B END TREATMENT	--- ---
GEODETIC MARKER	⊙	NEW FENCE	---	R/R MILE POST	⊙	NEW GUARDRAIL	--- ---
FLOOD/GROUND LIGHT	⊙	EXISTING PAVED ROAD	---	R/R SIGNAL	⊙	TYPE T END TREATMENT	--- ---
TELEPHONE BOX	⊙	EXISTING DIRT ROAD	---	R/R SIGNAL BOX	⊙		
WATER SPIGOT	⊙	EXISTING PAVED ROAD WITH CURB & GUTTER	---				
SPRINKLER	⊙	NEW PAINTED MEDIAN	---				
FLAG POLE	⊙	NEW CONCRETE SIDEWALK/MEDIAN/DITCH GUTTER	---				

## INCLUSION ITEMS

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

DESCRIPTION	UNIT	QUANTITY	DESCRIPTION
UNCLASSIFIED EXCAVATION	CY	1041	FOR STRIPPING AND REGRADING OUTFALLS
BORROW EXCAVATION	CY	1372	FILL FOR STRIPPING AND REPLACEMENT OF UNSUITABLE MATERIAL
MUCK EXCAVATION	CY	25	FOR UNSUITABLE MATERIAL
FINE GRADING	LS	NEC.	WHERE DIRECTED BY ENGINEER
MAINTENANCE STONE	TON	85	WHERE DIRECTED BY ENGINEER
PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	SF	86	WHERE DIRECTED BY ENGINEER
PERMANENT VEGETATION	MSY	6,828	FOR ALL DISTURBED AREAS
TEMPORARY VEGETATION	MSY	6,828	FOR ALL DISTURBED AREAS
SILT FENCE	LF	200	WHERE DIRECTED BY ENGINEER
STABILIZED CONSTRUCTION ENTRANCE	SY	275	WHERE DIRECTED BY ENGINEER

SCALE: 4.772 ft. / in.  
 PEN TABLE: \$PENTBLLS  
 PLOT DRIVER: \$PLTDKVL\$  
 FILE: G:\Jobsseven\31742-09\Production\Transportation\c.dgn (Const plpr)\05 gcn.dgn  
 12/15/2017



3229 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

# DAVIS & FLOYD

SINCE 1954

4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DGN.	DMD	DATE	6/8/17
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY

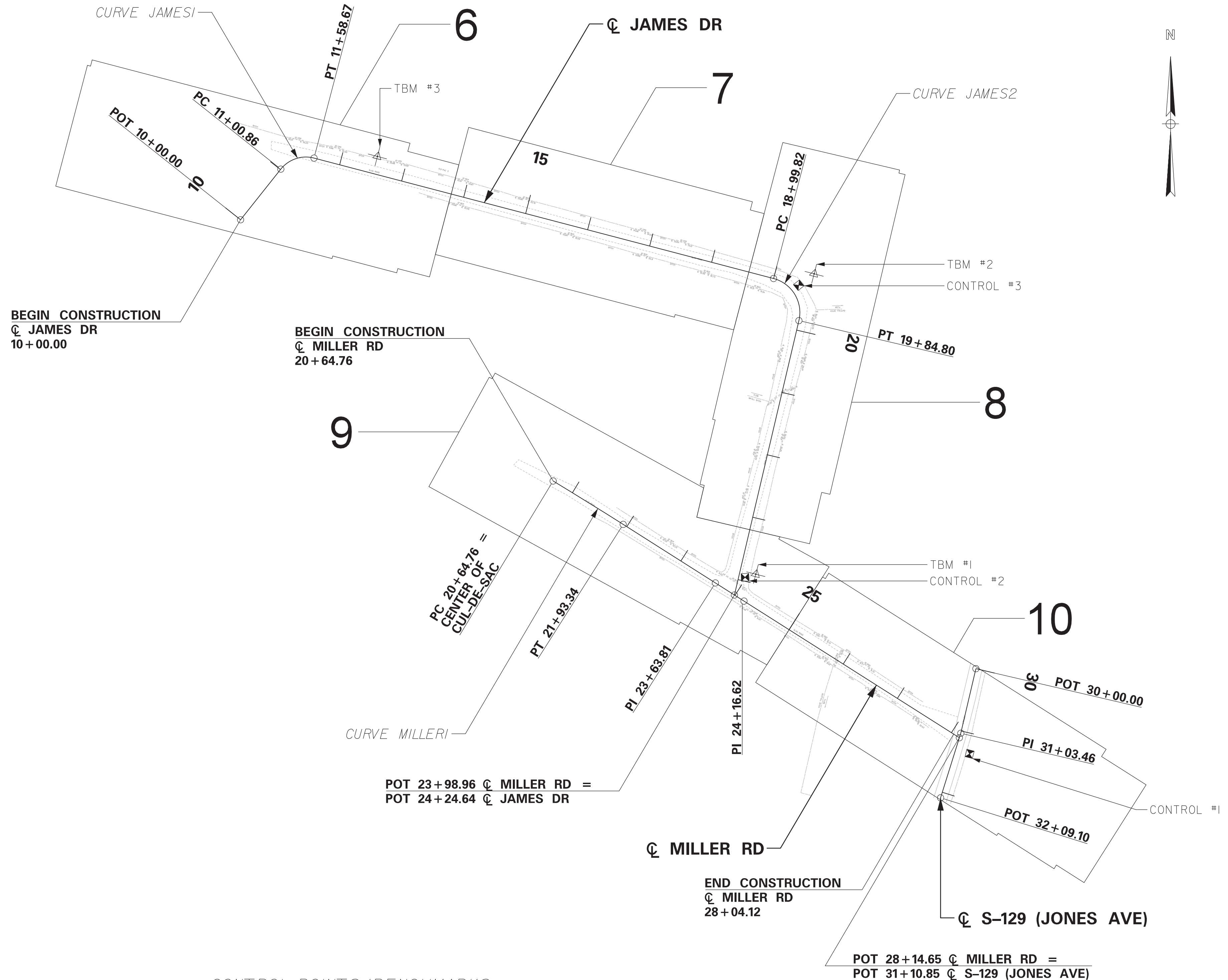
ENGINEERED ROADS PROGRAM

GENERAL CONSTRUCTION NOTES  
JAMES DR AND MILLER RD

# CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	5A	

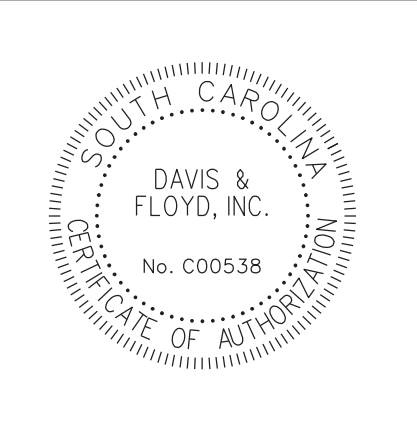
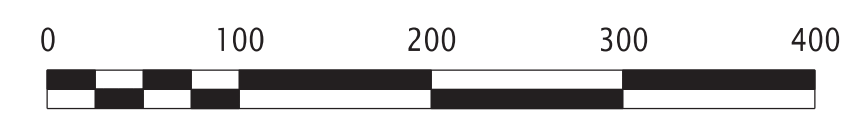
Beginning chain JAMES description  
 =====  
 Point 1            N        589,560.23 E     2,432,151.30 Sta     10+00.00  
 Course from 1 to PC JAMES1 N 38° 26' 16.51" E Dist 100.86  
 =====  
 Curve Data  
 \*-----\*  
 Curve JAMES1  
 P.I. Station        11+33.48 N            589,664.78 E        2,432,234.29  
 Delta                =        114° 35' 00.00" (RT)  
 Degree                =        66° 15' 29.61"  
 Tangent                =        32.63  
 Length                =        57.81  
 Radius                =        50.00  
 External                =        9.70  
 Long Chord            =        54.65  
 Mid. Ord.             =        8.13  
 P.C. Station        11+00.86 N            589,639.23 E        2,432,214.00  
 P.T. Station        11+58.67 N            589,656.51 E        2,432,265.85  
 C.C.                    =        N        589,608.15 E        2,432,253.17  
 Back                 = N 38° 26' 16.51" E  
 Ahead                = S 75° 18' 43.49" E  
 Chord Bear          = N 71° 33' 46.51" E  
 Course from PT JAMES1 to PC JAMES2 S 75° 18' 43.49" E Dist 741.14  
 =====  
 Curve Data  
 \*-----\*  
 Curve JAMES2  
 P.I. Station        19+53.43 N            589,455.00 E        2,433,034.63  
 Delta                =        88° 32' 03.17" (RT)  
 Degree                =        104° 10' 26.92"  
 Tangent                =        53.61  
 Length                =        84.99  
 Radius                =        55.00  
 External                =        21.81  
 Long Chord            =        76.78  
 Mid. Ord.             =        15.61  
 P.C. Station        18+99.82 N            589,468.59 E        2,432,982.77  
 P.T. Station        19+84.80 N            589,402.81 E        2,433,022.37  
 C.C.                    =        N        589,415.39 E        2,432,968.83  
 Back                 = S 75° 18' 43.49" E  
 Ahead                = S 13° 13' 19.68" W  
 Chord Bear          = S 31° 02' 41.91" E  
 Course from PT JAMES2 to 2 S 13° 13' 19.68" W Dist 439.84  
 Point 2            N        588,974.63 E     2,432,921.76 Sta     24+24.64  
 =====  
 Ending chain JAMES description  
 =====  
 Beginning chain MILLER description  
 =====  
 Curve Data  
 \*-----\*  
 Curve MILLER1  
 P.I. Station        21+29.05 N            589,119.25 E        2,432,693.87  
 Delta                =        1° 11' 17.54" (RT)  
 Degree                =        0° 55' 26.85"  
 Tangent                =        64.29  
 Length                =        128.58  
 Radius                =        6,200.00  
 External                =        0.33  
 Long Chord            =        128.57  
 Mid. Ord.             =        0.33  
 P.C. Station        20+64.76 N            589,152.57 E        2,432,638.89  
 P.T. Station        21+93.34 N            589,084.80 E        2,432,748.15  
 C.C.                    =        S        583,850.28 E        2,429,425.53  
 Back                 = S 58° 46' 57.86" E  
 Ahead                = S 57° 35' 40.32" E  
 Chord Bear          = S 58° 11' 19.09" E  
 Course from PT MILLER1 to 11 S 57° 35' 40.32" E Dist 170.47  
 Point 11           N        588,993.45 E     2,432,892.08 Sta     23+63.81  
 Course from 11 to 12 S 57° 38' 19.20" E Dist 52.82  
 Point 12           N        588,965.18 E     2,432,936.69 Sta     24+16.62  
 Course from 12 to 13 S 57° 35' 32.14" E Dist 398.03  
 Point 13           N        588,751.85 E     2,433,272.73 Sta     28+14.65  
 =====  
 Ending chain MILLER description  
 =====  
 Beginning chain JONES description  
 =====  
 Point 20           N        588,859.65 E     2,433,298.49 Sta     30+00.00  
 Course from 20 to 21 S 13° 09' 48.02" W Dist 103.46  
 Point 21           N        588,758.90 E     2,433,274.93 Sta     31+03.46  
 Course from 21 to 22 S 17° 21' 48.02" W Dist 105.64  
 Point 22           N        588,658.08 E     2,433,243.41 Sta     32+09.10  
 =====  
 Ending chain JONES description  
 =====



### CONTROL POINTS/BENCHMARKS

Point ID	North	East	Elev	Description	Centerline	Station	Offset
CONTROL #1	588726.690	2433288.650	34.95	5/8" REBAR WITH CAP	Jones Ave	31+30.11	-22.71
CONTROL #2	589002.250	2432938.310	33.80	5/8" REBAR WITH CAP	James Dr	23+93.97	-9.79
CONTROL #3	589458.072	2433022.068	33.14	5/8" REBAR WITH CAP	James Dr	19+34.94	-13.24
TBM #1	589007.087	2432955.148	35.92	NAIL IN POLE	James Dr	23+85.41	-25.06
TBM #2	589475.816	2433046.112	33.35	NAIL IN POLE	James Dr	19+35.61	-43.09
TBM #3	589659.013	2432364.773	35.64	NAIL IN POLE	James Dr	12+53.73	-27.50

SCALE: 100,000 ft. / in.  
 PEN TABLE: SPENBILLS  
 PLOT DRIVER: SPLDRVLS  
 FILE: C:\Jobs\even\31742-09\Production\Transportation\1.dgn\Const\p1pr\05A.ref\data.dgn  
 12/5/2017



**DAVIS & FLOYD**  
 SINCE 1954

3229 W. MONTAGUE AVENUE CHARLESTON, SC 29418 (843) 554-8602	4			
	3			
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION	
DGN.	DMD	DATE	6/8/17	
R/W		DATE		
CHK.		DATE		

SEE PLAN SHEETS FOR SUPERELEVATION DATA.

GEORGETOWN COUNTY  
 ENGINEERED ROADS PROGRAM

REFERENCE DATA SHEET  
 JAMES DR AND MILLER RD

SCALE 1" = 100'

NOTES (APPLIES TO ALL SHEETS):

- REMOVE ALL EXISTING PIPES UNLESS NOTED OTHERWISE.
- PAVE ALL DRIVEWAYS TO R/W LINE. UNLESS THE DRIVEWAY IS LABELED, THE STANDARD DRIVEWAY RADIUS IS 10' AND THE STANDARD DRIVEWAY WIDTH IS 12'. THIS MAY BE MODIFIED PER DIRECTION OF THE ENGINEER TO FIT FIELD CONDITIONS.
- RELOCATE AND MAINTAIN MAILBOXES BEYOND CONSTRUCTION LIMITS AND RESTORE TO EDGE OF PAVEMENT AFTER CONSTRUCTION. RELOCATE BUSHES THAT ARE INSIDE CONSTRUCTION LIMITS CLEAR OF R/W.
- UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL VERIFY UTILITY LOCATION AND NOTIFY ENGINEER IF CONFLICT EXISTS. THE CONTRACTOR IS TO COORDINATE WITH THE UTILITY COMPANIES FOR RELOCATING OR ADJUSTING UTILITIES. COST OF THIS COORDINATION IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- COST TO RELOCATE EXISTING SIGNAGE SHALL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEM 1071000.

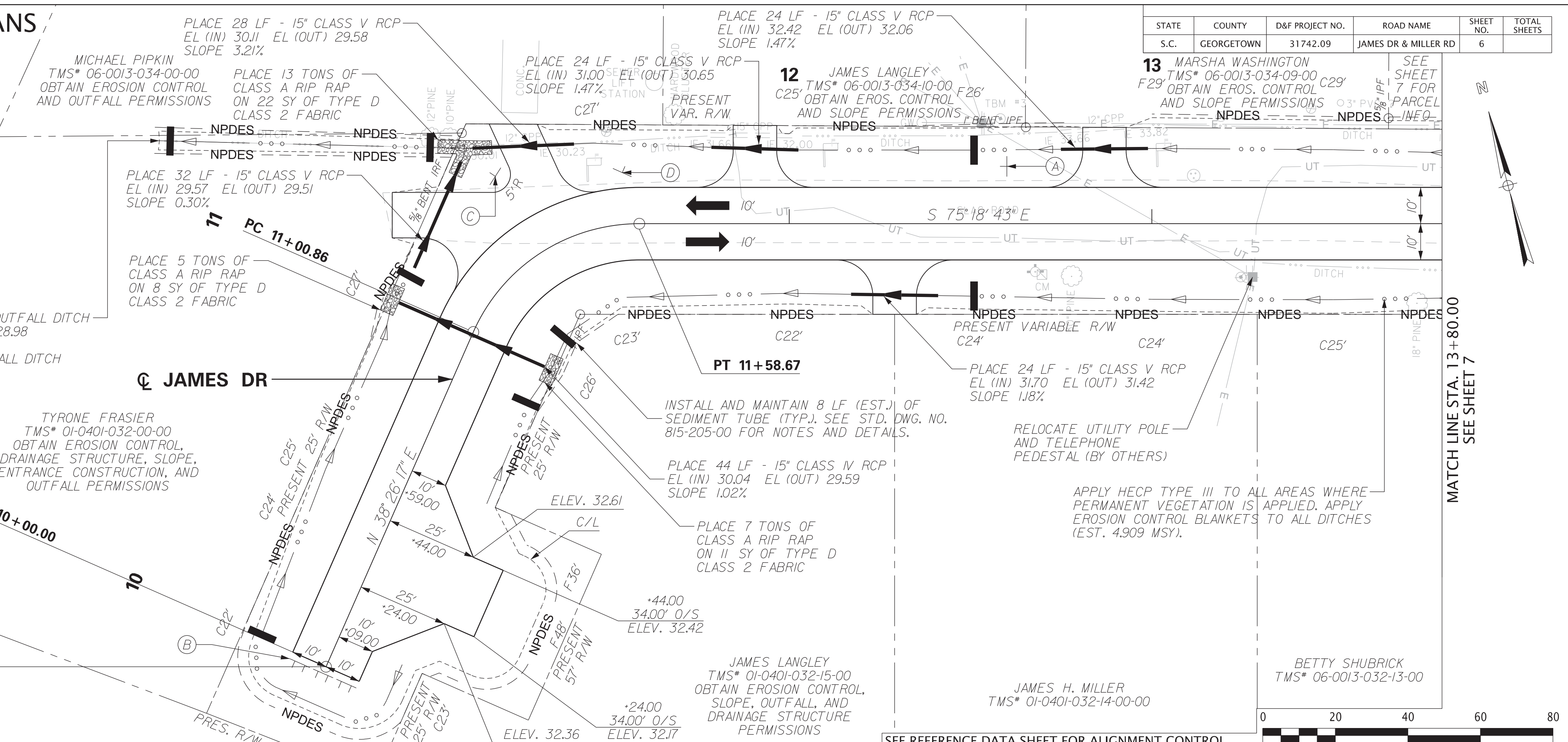
CONSTRUCTION PLANS

- (A) PLACE CURVE SIGN WITH ADVISORY SPEED PLAQUE WI-IL-30 W13-IP-18-10 \*60.00
- (B) PLACE TYPE III BARRICADES IN A T3 CONFIGURATION PER STD. DWG. NO. 610-515-00. EACH TYPE III BARRICADE SHALL BE SUPPLEMENTED WITH A OM4-1 SIGN WITH A MINIMUM MOUNTING HEIGHT OF 4 FT. MEASURED VERTICALLY FROM THE BOTTOM OF THE OM4-1 SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.
- (C) PLACE ONE-DIRECTION LARGE ARROW SIGN WI-6L-48 \*30.59
- (D) PLACE ONE-DIRECTION LARGE ARROW SIGN WI-6R-48 \*55.00

© JAMES I  
 PI Sta. 11+33.48  
 Δ = 66° 15' 00" (RT)  
 Dc = 114' 35" 30"  
 T = 32.63'  
 L = 57.81'  
 R = 50.00'  
 E = 9.70'  
 Ds = 15 MPH  
 e(max) = NA  
 e = RC  
 LG PC = 0.78%  
 LG PT = 0.78%

HEIRS SARAH McCUTCHEN MOULTRIE  
 TMS\* 01-0401-005-00-00

BEGIN CONSTRUCTION  
 © JAMES DR  
 10+00.00



STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	6	

13 MARSHA WASHINGTON  
 TMS\* 06-0013-034-09-00  
 OBTAIN EROS. CONTROL AND SLOPE PERMISSIONS  
 NPDES

12 JAMES LANGLEY  
 TMS\* 06-0013-034-10-00  
 OBTAIN EROS. CONTROL AND SLOPE PERMISSIONS  
 NPDES

RELOCATE UTILITY POLE AND TELEPHONE PEDESTAL (BY OTHERS)

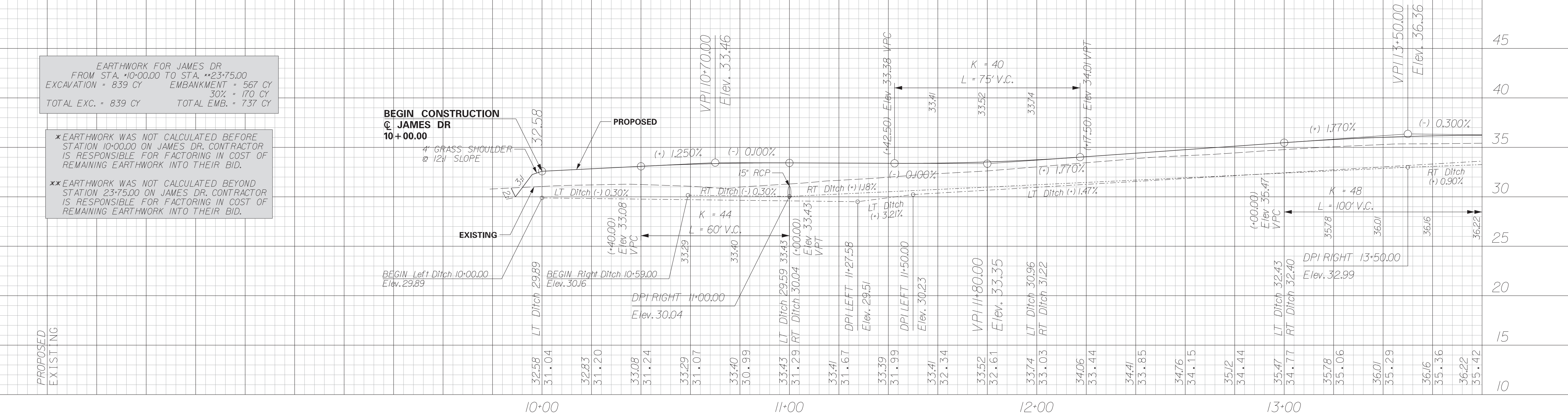
APPLY HECP TYPE III TO ALL AREAS WHERE PERMANENT VEGETATION IS APPLIED. APPLY EROSION CONTROL BLANKETS TO ALL DITCHES (EST. 4.909 MSY).

BETTY SHUBRICK  
 TMS\* 06-0013-032-13-00

JAMES H. MILLER  
 TMS\* 01-0401-032-14-00-00

JAMES LANGLEY  
 TMS\* 01-0401-032-15-00  
 OBTAIN EROSION CONTROL, SLOPE, OUTFALL, AND DRAINAGE STRUCTURE PERMISSIONS

SEE REFERENCE DATA SHEET FOR ALIGNMENT CONTROL



EARTHWORK FOR JAMES DR  
 FROM STA. 10+00.00 TO STA. 23+75.00  
 EXCAVATION = 839 CY EMBANKMENT = 567 CY  
 TOTAL EXC. = 839 CY TOTAL EMB. = 737 CY

\*EARTHWORK WAS NOT CALCULATED BEFORE STATION 10+00.00 ON JAMES DR. CONTRACTOR IS RESPONSIBLE FOR FACTORING IN COST OF REMAINING EARTHWORK INTO THEIR BID.  
 \*\*EARTHWORK WAS NOT CALCULATED BEYOND STATION 23+75.00 ON JAMES DR. CONTRACTOR IS RESPONSIBLE FOR FACTORING IN COST OF REMAINING EARTHWORK INTO THEIR BID.

20,000 ft. / in.  
 SCALE:  
 PEN TABLE:  
 PLOT DRIVER:  
 FILE:  
 12/5/2017

3229 W. MONTAGUE AVENUE  
 CHARLESTON, SC 29418  
 (843) 554-8602

**DAVIS & FLOYD**  
 SINCE 1954

SOUTH CAROLINA PROFESSIONAL ENGINEER  
 DAVIS & FLOYD, INC.  
 No. C00538

SOUTH CAROLINA PROFESSIONAL ENGINEER  
 No. 20214

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
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1			

DGN. DMD DATE 6/8/17  
 R/W DATE  
 CHK. DATE

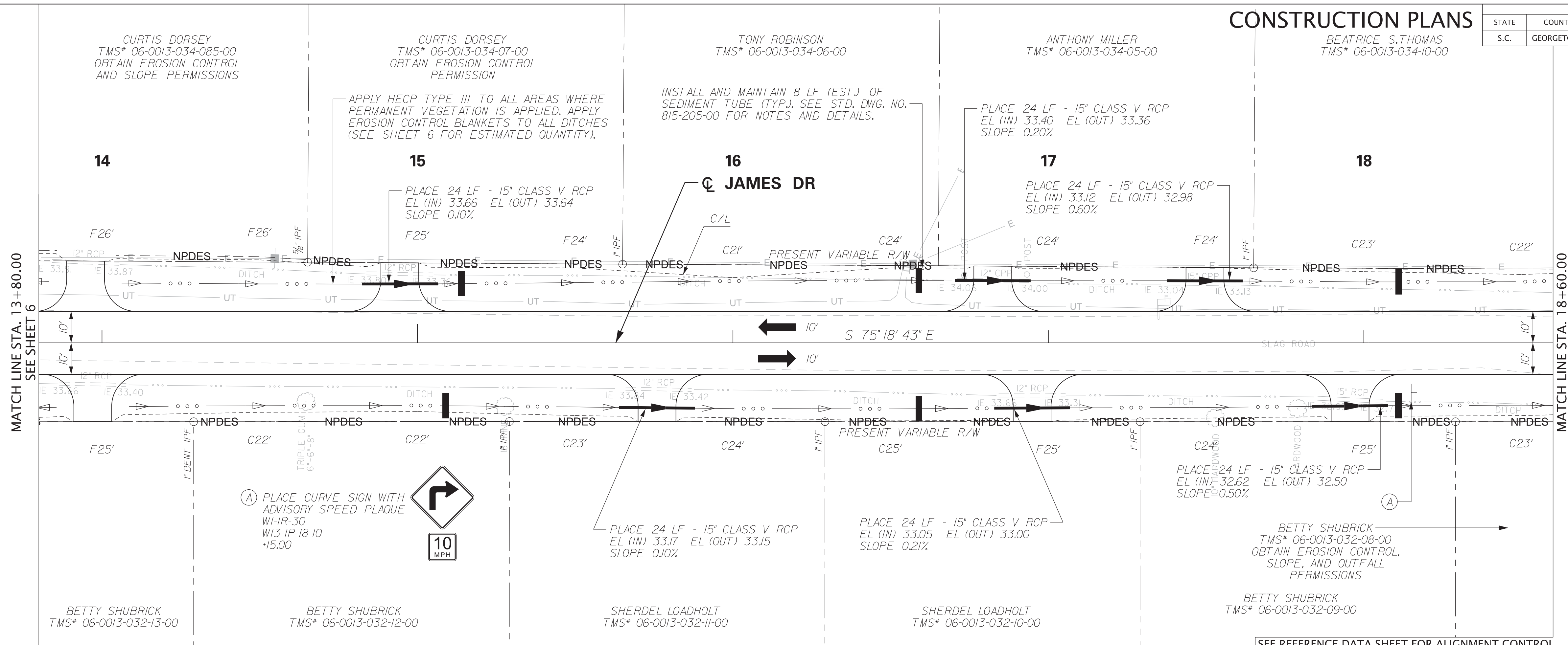
GEORGETOWN COUNTY  
 ENGINEERED ROADS PROGRAM

PLAN & PROFILE SHEET  
 JAMES DR  
 STA. 10+00.00 - STA. 13+80.00

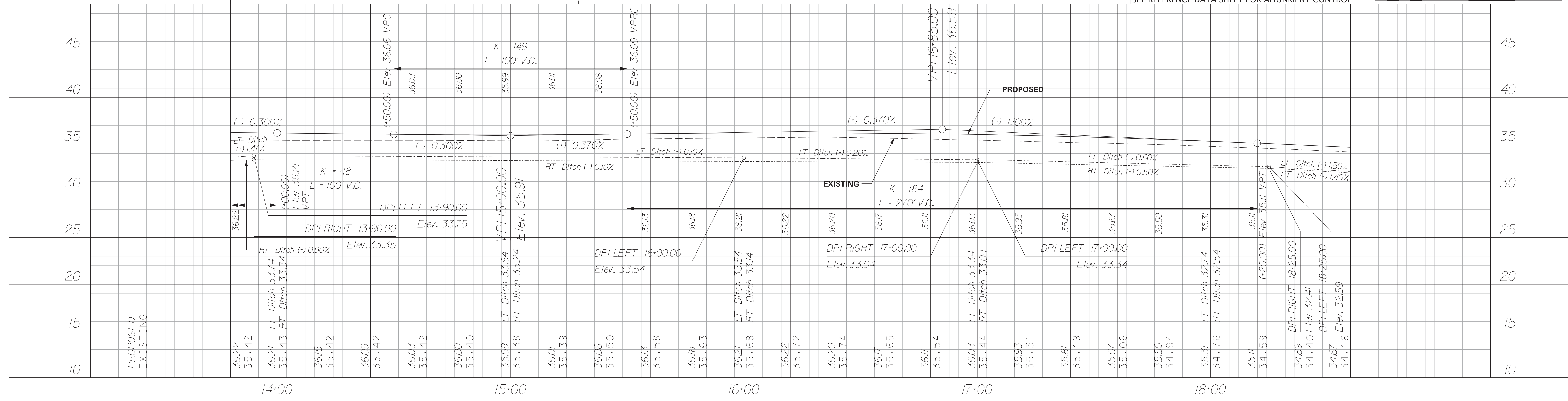
SCALE 1" = 20' HOR. 1" = 5' VER.

**CONSTRUCTION PLANS**

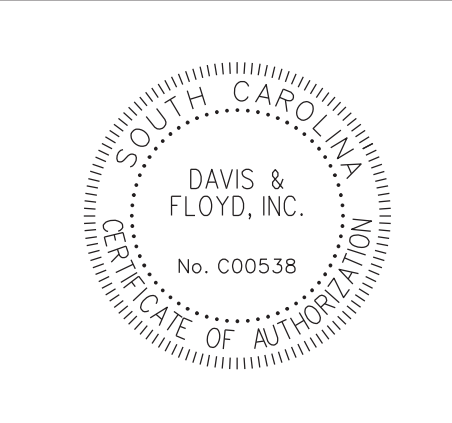
STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	7	



SEE REFERENCE DATA SHEET FOR ALIGNMENT CONTROL



SCALE: 20,000 ft. / in.  
 PEN TABLE: SPLIDRVL3  
 PLOT DRIVER: C:\Jobs\Even\31742-09\Production\Transportation\Transportation\Const\plpr\07 plpr.dgn  
 FILE: 12/5/2017



**DAVIS & FLOYD**  
 SINCE 1954  
 3229 W. MONTAGUE AVENUE  
 CHARLESTON, SC 29418  
 (843) 554-8602

4			
3			
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DGN.	DMD	DATE	6/8/17
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY  
 ENGINEERED ROADS PROGRAM  
 PLAN & PROFILE SHEET  
 JAMES DR  
 STA. 13+80.00 - STA. 18+60.00  
 SCALE 1" = 20' HOR. 1" = 5' VER.

CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	8	

C JAMES2  
 PI Sta. 19+53.43  
 $\Delta = 88^\circ 32' 03"$  (RT)  
 $D_c = 104' 10' 27"$   
 $T = 53.61'$   
 $L = 84.99'$   
 $R = 55.00'$   
 $E = 21.81'$   
 $D_s = 15$  MPH  
 $e(max) = NA$   
 $e = RC$   
 $LG PC = 0.78\%$   
 $LG PT = 0.78\%$

THOMAS MORRIS  
 TMS# 06-0013-034-01-00

TOWN OF ANDREWS  
 TMS# 01-0401-032-05-01

GILBERT GOODEN  
 TMS# 01-0401-032-05-00  
 OBTAIN EROSION CONTROL  
 AND SLOPE PERMISSIONS

NO WORK CAN BEGIN IN IMPACTED WETLAND  
 AREAS (STA. 19+54.90 TO STA. 19+70.33) UNTIL  
 ALL NECESSARY USACE AND SCDHEC  
 CERTIFICATIONS HAVE BEEN OBTAINED AND  
 ARE EFFECTIVE

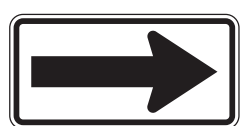
(A) PLACE CURVE SIGN WITH  
 ADVISORY SPEED PLAQUE  
 WI-IL-30  
 WI-3-IP-18-10  
 \*75.00



(B) PLACE ONE-DIRECTION LARGE ARROW SIGN  
 WI-6L-48  
 \*54.55



(C) PLACE ONE-DIRECTION LARGE ARROW SIGN  
 WI-6R-48  
 \*42.44



BEATRICE SPINNEY-THOMAS  
 TMS# 06-0013-034-03-00

BEATRICE S. THOMAS  
 TMS# 06-0013-034-10-00

APPLY HCCP TYPE III TO ALL AREAS WHERE  
 PERMANENT VEGETATION IS APPLIED. APPLY  
 EROSION CONTROL BLANKETS TO ALL DITCHES  
 (SEE SHEET 6 FOR ESTIMATED QUANTITY).

RELOCATE FENCE TO R/W LINE. IF FENCE CANNOT  
 BE RESET, CONTRACTOR MUST PROVIDE A  
 SUITABLE REPLACEMENT.

PLACE 28 LF - 15' CLASS V RCP  
 EL (IN) 30.86 EL (OUT) 30.80  
 SLOPE 0.30%

PLACE 24 LF - 15' CLASS V RCP  
 EL (IN) 30.67 EL (OUT) 30.60  
 SLOPE 0.30%

PLACE 10 TONS OF CLASS A RIP RAP  
 ON 18 SY OF TYPE D CLASS 2 FABRIC

PLACE 40 LF - 18" CLASS IV RCP  
 EL (IN) 30.43 EL (OUT) 30.03  
 SLOPE 1.00%

ANTOINE M. RUTLEDGE  
 TMS# 01-0401-032-07-00  
 OBTAIN EROSION CONTROL,  
 SLOPE, AND OUTFALL  
 PERMISSIONS

COORDINATE WITH  
 POWER COMPANY  
 TO VERIFY POLE CAN  
 REMAIN IN PLACE

INSTALL AND MAINTAIN 8 LF (EST.) OF  
 SEDIMENT TUBE (TYP.). SEE STD. DWG. NO.  
 815-205-00 FOR NOTES AND DETAILS.

BETTY SHUBRICK  
 TMS# 06-0013-032-08-00  
 OBTAIN EROSION CONTROL,  
 SLOPE, AND OUTFALL  
 PERMISSIONS

LOUDELLA MILLER  
 TMS# 01-0401-032-03-00  
 OBTAIN EROSION CONTROL,  
 SLOPE, ENTRANCE CONSTRUCTION,  
 AND OUTFALL PERMISSIONS

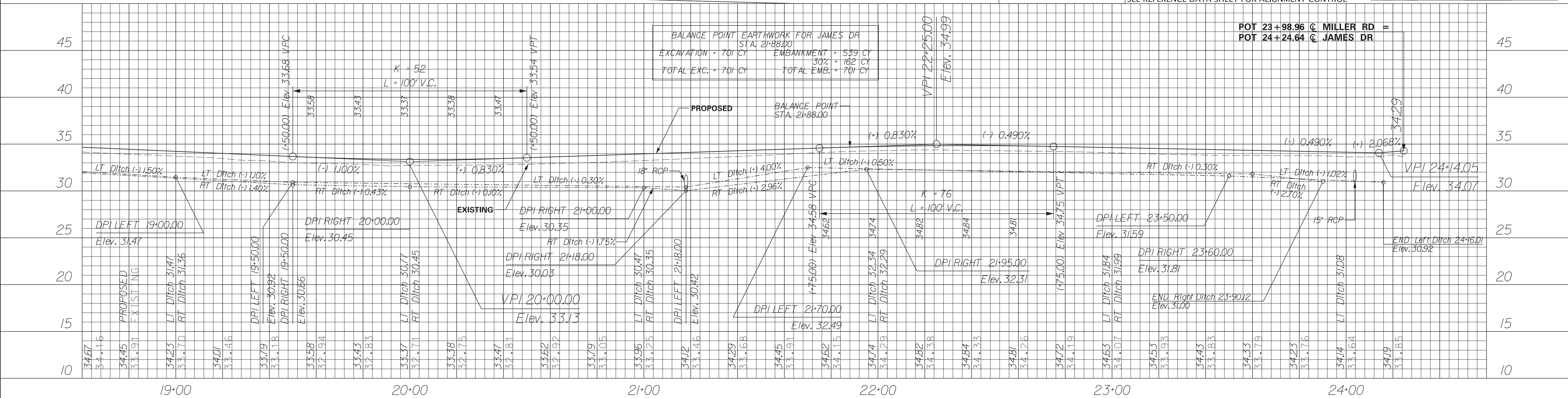
MATCH LINE STA. 18+60.00  
 SEE SHEET 7

SEE REFERENCE DATA SHEET FOR ALIGNMENT CONTROL

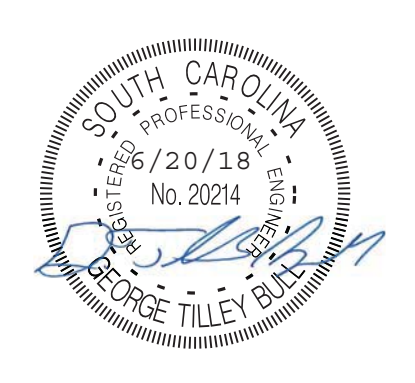
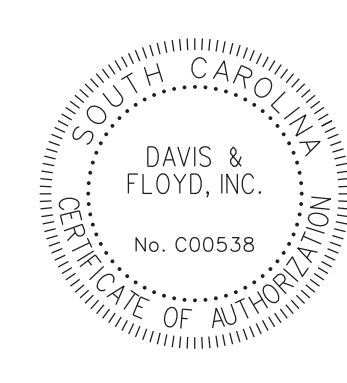


BALANCE POINT EARTHWORK FOR JAMES DR  
 STA. 21+88.00  
 EXCAVATION = 701 CY EMBANKMENT = 539 CY  
 TOTAL EXC. = 701 CY TOTAL EMB. = 701 CY

POT 23+98.96 @ MILLER RD =  
 POT 24+24.64 @ JAMES DR



SCALE: 11.821 ft / in.  
 PEN TABLE: 11-17RW.TBL  
 PLOT DRIVER: pscprc.plt  
 FILE: 6/20/2018  
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**DAVIS & FLOYD**  
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 CHARLESTON, SC 29418  
 (843) 554-8602

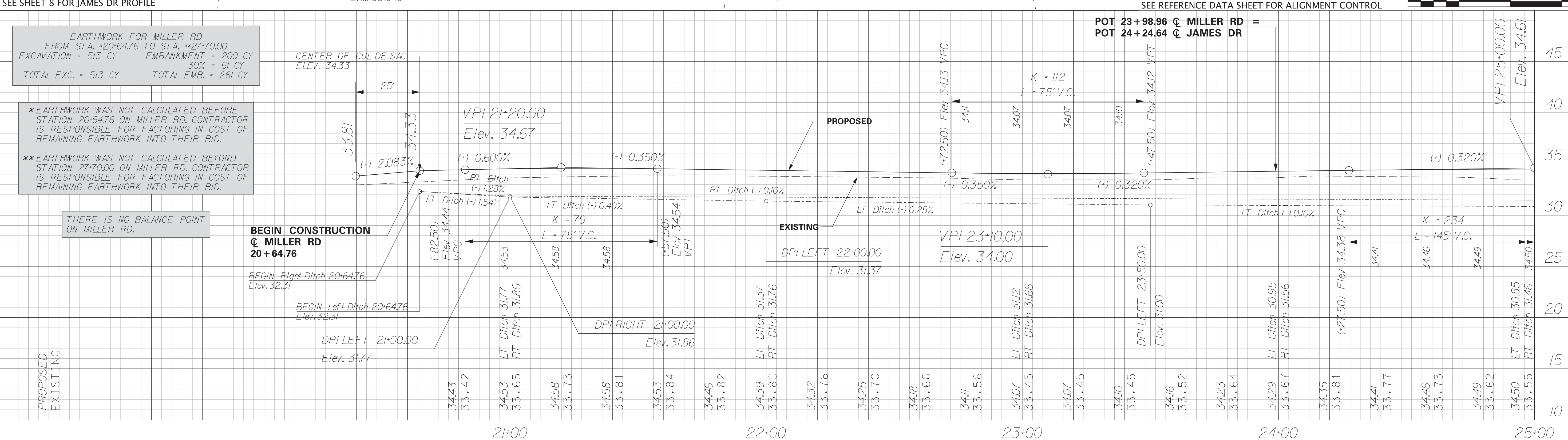
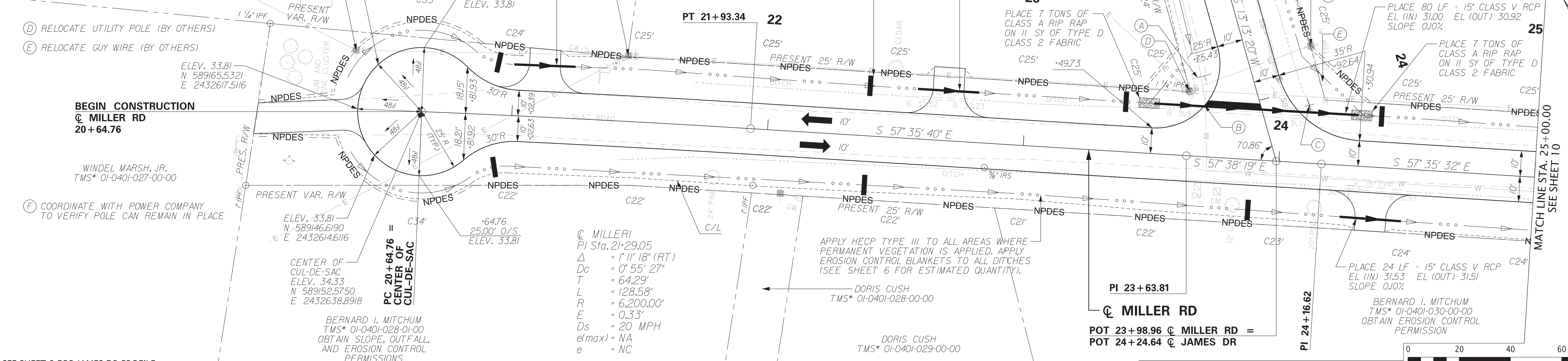
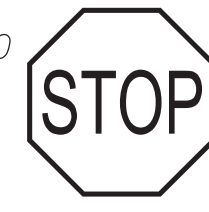
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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DGN.	DMD	DATE	6/8/17
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY  
 ENGINEERED ROADS PROGRAM  
 PLAN & PROFILE SHEET  
 JAMES DR  
 STA. 18+60.00 - STA. 23+20.00  
 SCALE 1" = 20' HOR. 1" = 5' VER.

**CONSTRUCTION PLANS**

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	9	

- (A) RELOCATE STOP SIGN  
RI-1  
•85.00
- (B) PLACE 22 LF OF 24" WHITE STOP BAR  
•96.17
- (C) RELOCATE EXISTING STREET NAME SIGN  
•07.11
- (D) RELOCATE UTILITY POLE (BY OTHERS)
- (E) RELOCATE GUY WIRE (BY OTHERS)
- (F) COORDINATE WITH POWER COMPANY TO VERIFY POLE CAN REMAIN IN PLACE



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
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1			

DCN. DMD DATE 6/8/17  
 R/W DATE  
 CHK. DATE

**DAVIS & FLOYD**  
SINCE 1954

3229 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-9602

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

PLAN & PROFILE SHEET  
MILLER RD  
STA. 20+64.76 - STA. 25+00.00  
JAMES DR

SCALE 1" = 20' HOR. 1" = 5' VER.

SCALE: 20,000 ft. / in.  
 PEN TABLE: SPENTBILLS  
 PLOT DRIVER: SPLDRVLS  
 FILE: C:\Jobs\Even\31742-09\Production\Transportation\1.dgn\Const\plpr\09 plpr.dgn  
 12/5/2017



CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	10	

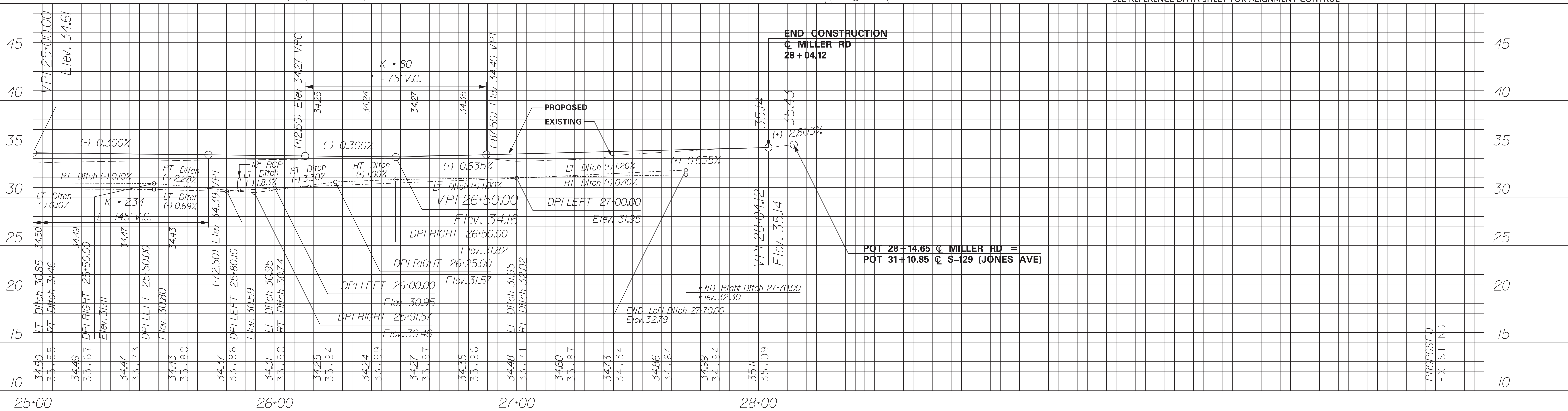
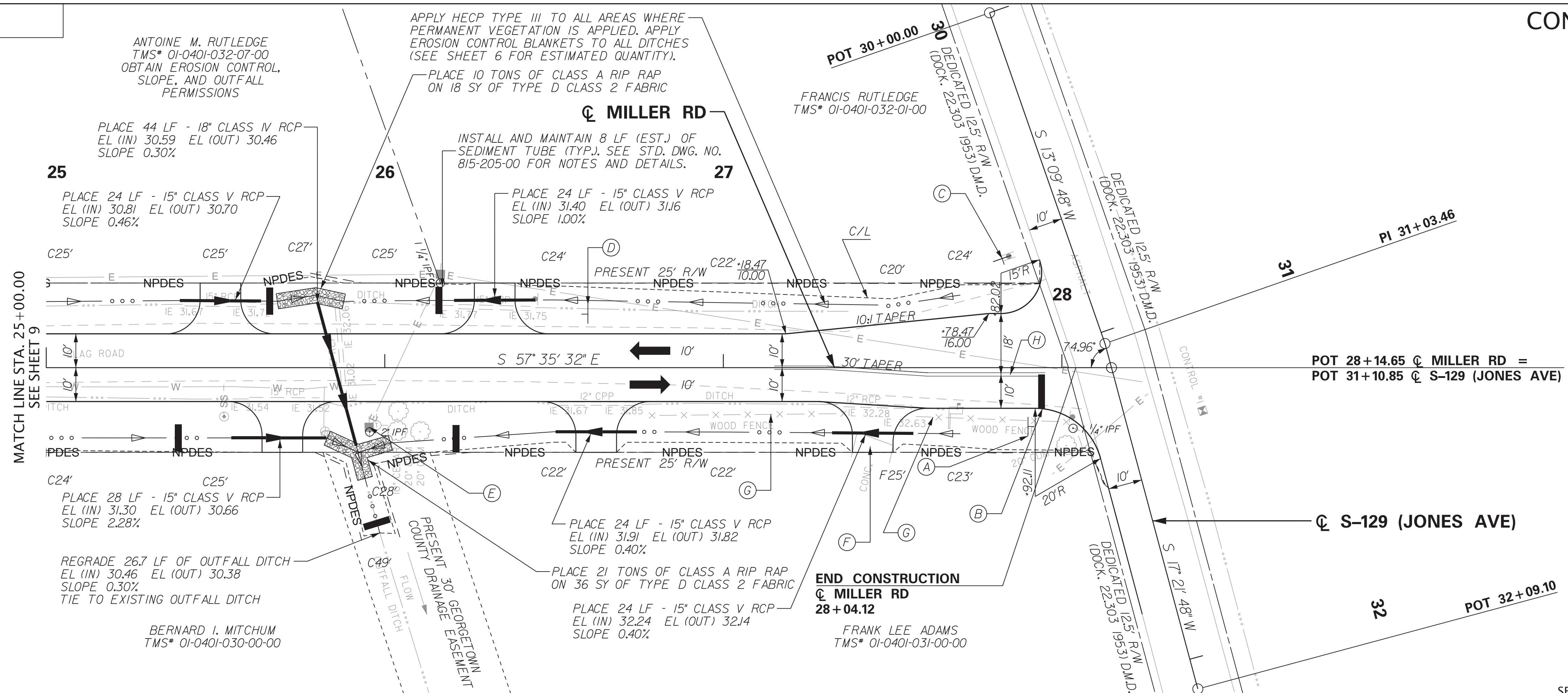
- (A) RELOCATE STOP SIGN  
RI-1  
-90.00
- (B) PLACE 11 LF OF 24" WHITE STOP BAR  
-95.00
- (C) RELOCATE EXISTING STREET NAME SIGN  
-82.36
- (D) RELOCATE EXISTING SIGN FROM STA 26+44.40 TO STA 26+60.00
- (E) RELOCATE UTILITY POLE, GUY WIRE, AND TELEPHONE PEDESTAL (BY OTHERS)
- (F) SAWCUT EXISTING CONCRETE DRIVEWAY AT R/W LINE AND REMOVE 5 SY OF EXISTING CONCRETE DRIVEWAY. PAYMENT FOR CONCRETE REMOVAL SHALL BE INCLUDED IN THE PAY ITEM UNCLASSIFIED EXCAVATION.
- (G) RELOCATE FENCE TO R/W LINE. IF FENCE CANNOT BE RESET, CONTRACTOR MUST PROVIDE A SUITABLE REPLACEMENT.
- (H) APPLY 80 LF 4" DOUBLE YELLOW SOLID LANE LINE

ALL PAVEMENT MARKINGS WITHIN SCDOT R/W SHALL BE THERMOPLASTIC AND INSTALLED ACCORDING TO CURRENT SCDOT STANDARDS AND SPECIFICATIONS.

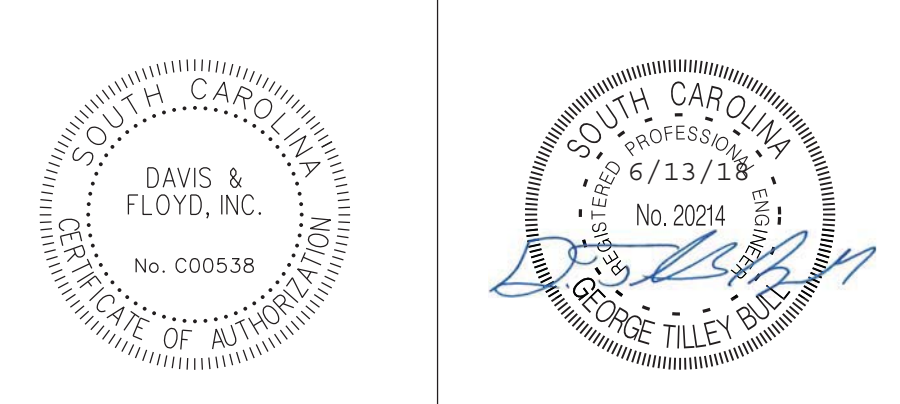
LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK FROM ONE FOOT TO FIFTEEN FEET FROM THE TRAVEL WAY.



SEE REFERENCE DATA SHEET FOR ALIGNMENT CONTROL



19.821 ft / in.  
PEN TABLE: 11-17RW.TBL  
PLOT DRIVER: pscprcpt  
FILE: G:\jobseven\31742-09\Production\Transportation\10 plpr.dgn  
6/13/2018



**DAVIS & FLOYD**  
SINCE 1954

3229 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
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1			
DGN.	DMD	DATE	6/8/17
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM

PLAN & PROFILE SHEET  
MILLER RD  
STA. 25+00.00 - STA. 28+04.12  
JONES AVE

SCALE 1" = 20' HOR. 1" = 5' VER.

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742-09	JAMES DR & MILLER RD	EC1	

OCRM STANDARD NOTES

- If necessary, slopes which exceed eight (8) 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.
- 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.
- 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 installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
- 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 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.
- 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.
- The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from the construction area and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- 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.
- 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.
- 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'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..
- 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 being a pollutant source in storm water discharges.
- A copy of the SWPPP, inspections 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.
- 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.
- Minimize soil compaction and, unless infeasible, preserve topsoil.
- 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.
- 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.).
- 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.
- 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.
- 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 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.
- 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 the Department has approved otherwise.

SEEDING INSTALLATION

- Seed all disturbed areas of construction (excluding riprap lined ditches).
- No seeding should be undertaken in windy or unfavorable weather, when the ground is too wet to rake easily, when it is in a frozen condition, or too dry.
- The subgrade of all areas to be seeded shall be raked and all rubbish, sticks, roots, and stones larger than 2 IN shall be removed.
- Fertilizer shall be uniformly spread and disked or roto-tilled to a depth of at least 4 IN.
- Immediately following this preparation the seed shall be uniformly applied and lightly raked into the surface. Lightly roll the surface and water with fine spray. Seed shall be applied, depending on the period of year, at the rates indicated in Section 810 of the SCDOT Standard Specifications for Highway Construction (Edition 2007).
 

All seeded areas shall be mulched with clean small-grain straw at a rate of 1/2 to 2 tons per acre. Asphalt emulsion shall be applied uniformly at a rate of 300 GAL per acre to tack the mulch, unless otherwise shown on the plans. Mechanical tacking will be considered on a case-by-case basis as approved by the Engineer.
- All seeded areas shall be watered and maintained in good condition. Re seeding shall be done if and when necessary until a good, healthy, uniform growth is established over the entire area seeded.
- Slopes shall be protected against washouts by an approved method. Any washout which occurs shall be regraded and reseeded until good sod is established.

SEQUENCE OF CONSTRUCTION

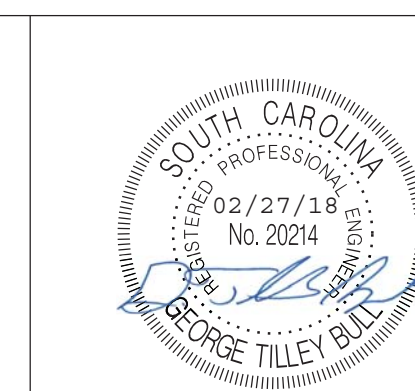
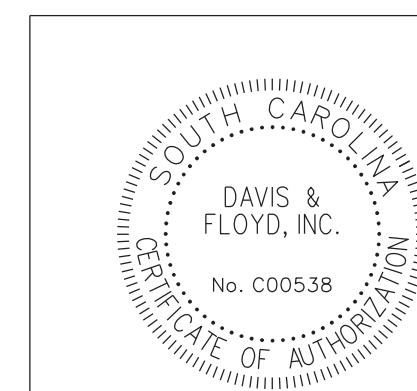
- Obtain all permits.
- Contact the office of Ocean and Coastal Resource Management (OCRM) at (843)238-4528 prior to commencing construction activities.
- Install sediment erosion controls as follows:
  - Silt Fences shall be used to prevent silt from leaving the limits of construction.
  - Stabilized Graveled Construction Entrances shall be used at locations where construction vehicles access public non-construction areas. Vehicles shall be washed down as necessary to prevent tracking of silt offsite.
  - A temporary rock filter dam or sediment tube shall be used as ditch checks as directed by the Engineer.
  - Adhere by all of the OCRM Standard Notes listed on the right of this sheet and install BMP's per the SCDOT Standard Drawings for Erosion Control.
- A recommended sequence of construction follows:
  - Clear and grub only areas necessary for perimeter erosion and sediment control silt fence, hay bales, and temporary sediment traps.
  - Construct perimeter controls.
  - Construct new drainage appurtenances within the areas protected by perimeter controls.
  - Install protection around inlets and stabilize disturbed areas as soon as possible (within 7 calendar days).
  - Proceed with construction. Limit disturbed areas to areas with work in progress to limit disruption to traffic. Schedule work to maintain access to all driveways as long as possible.
  - Erosion controls may be removed after the area contributing flow to that particular erosion control device has been stabilized.
  - Stabilize all remaining areas.
  - Clean out temporary sediment controls as needed; check controls every seven (7) days.
  - Remove sediment controls 30 days after all disturbed areas have stabilized.

STANDARD EROSION CONTROL DRAWINGS

DRAWING NO.	DRAWING DESCRIPTION	LATEST REVISION
815-205-00	SEDIMENT TUBE DITCH APPLICATION	8/2012
815-605-00	TEMPORARY EROSION & SEDIMENTATION CONTROL	8/2012
804-305-01	RIPRAP (PIPE)	2/2015
804-310-00	RIPRAP (PIPE & DITCH LINING)	2/2015

Copies of SCDOT Standard Drawings are available at the following web address [http://www.scdot.org/doing/sd\\_Disclaimer.aspx](http://www.scdot.org/doing/sd_Disclaimer.aspx)

SCALE: 4.772 ft. / in.  
 PEN TABLE: \$PENTBLLS  
 PLOT DRIVER: \$PLTDRAWLS  
 FILE: G:\Jobs\even\31742-09\Production\Transportation\c.dgn\Const\plpr\EC1.dgn  
 12/15/2017



**DAVIS & FLOYD**  
SINCE 1954

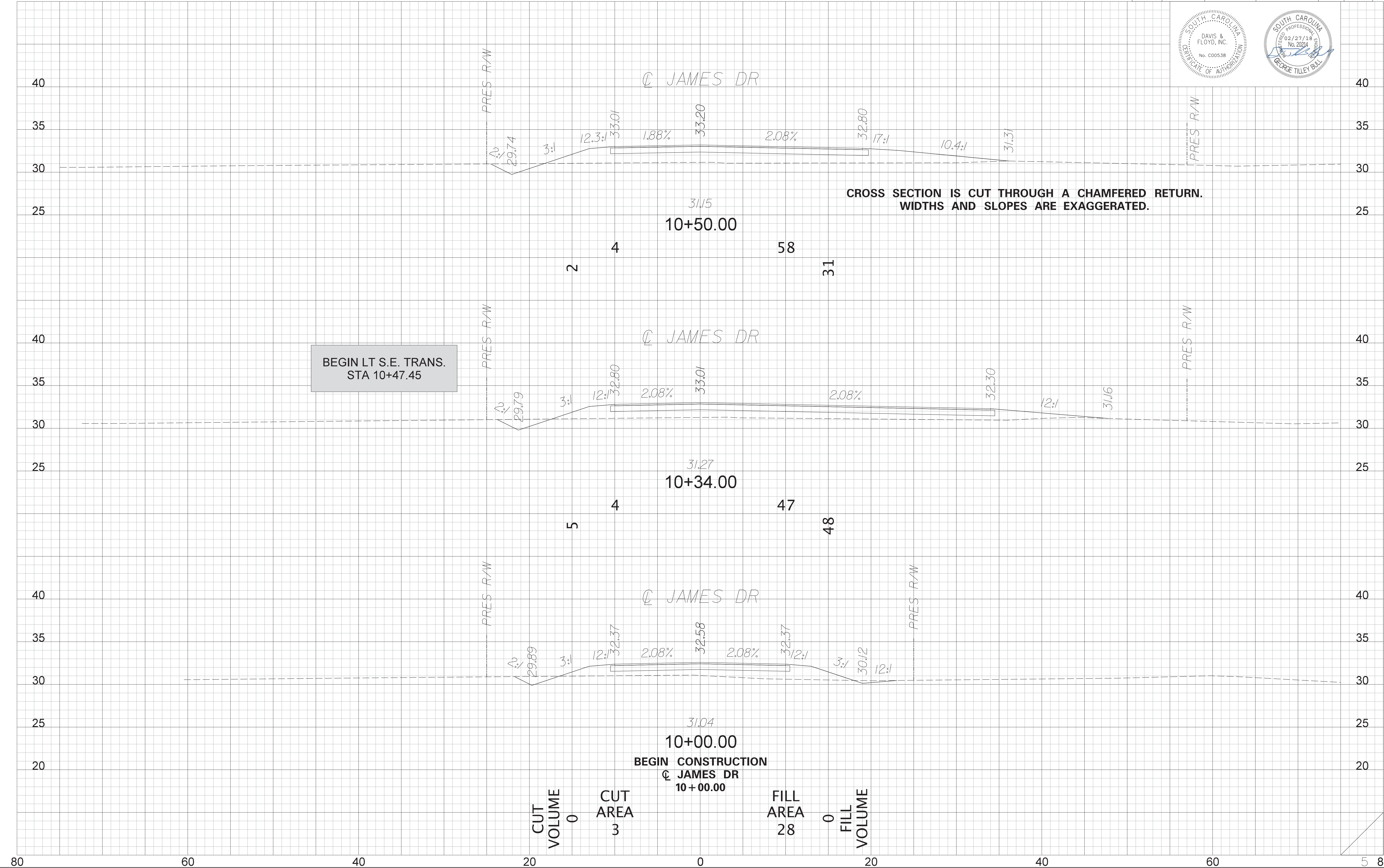
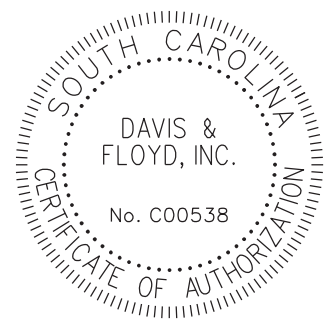
3229 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

4			
3			
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
DGN.		DATE	
R/W		DATE	
CHK.		DATE	

GEORGETOWN COUNTY  
ENGINEERED ROADS PROGRAM  
EROSION CONTROL NOTES  
JAMES DR AND MILLER RD

CONSTRUCTION PLANS

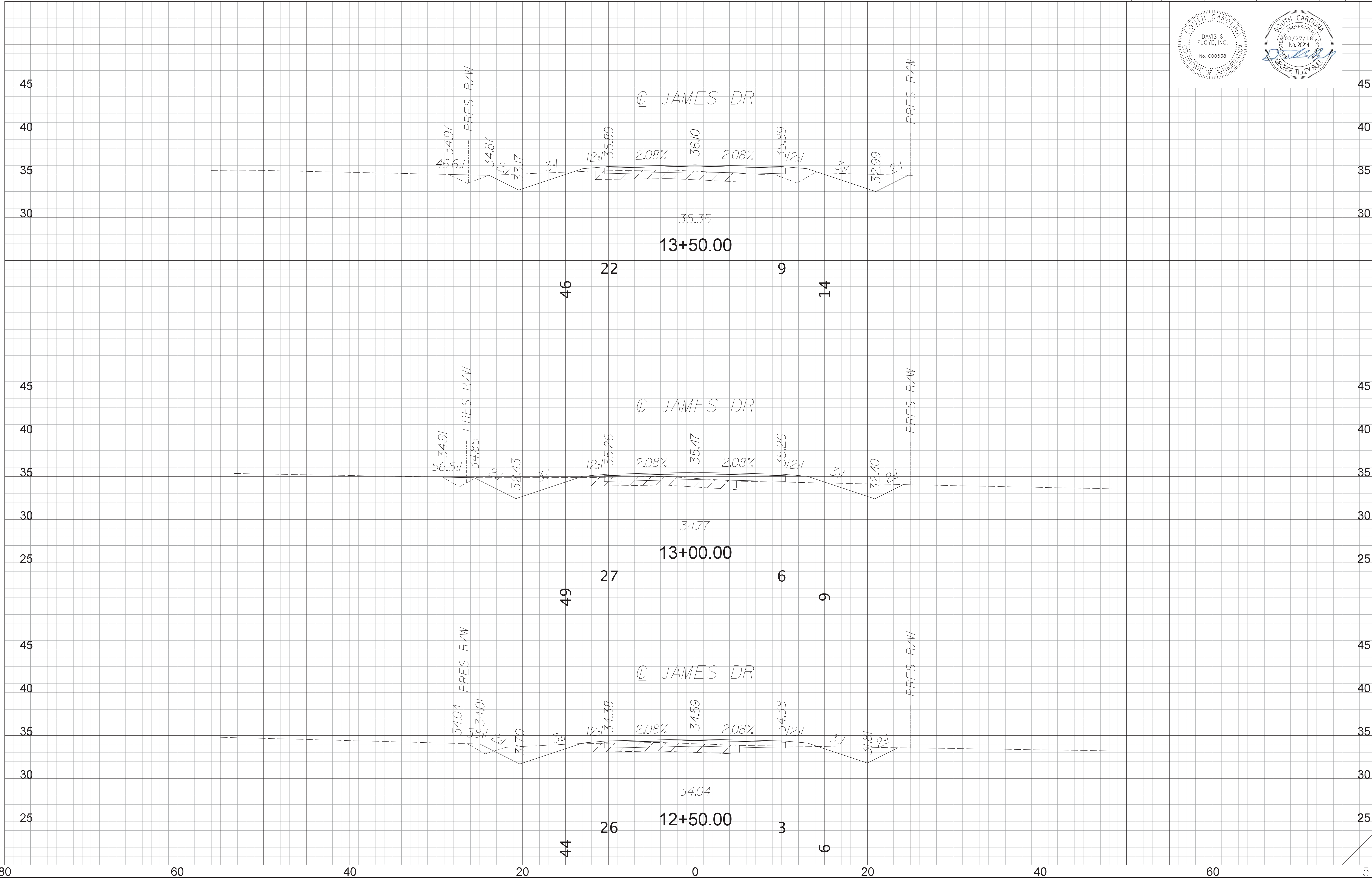
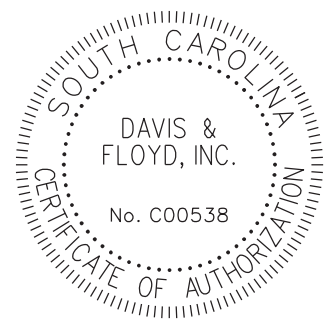
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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X1	





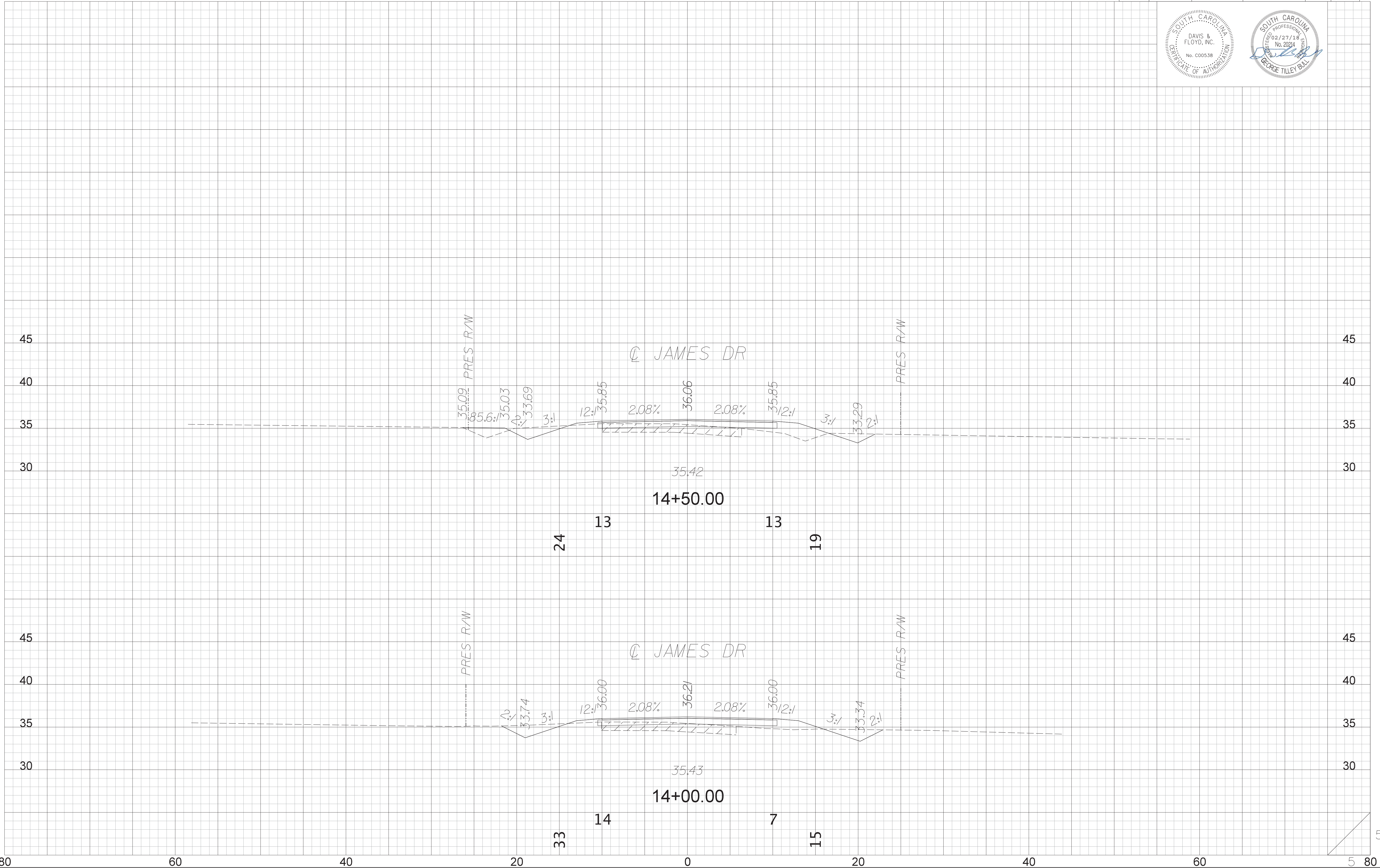
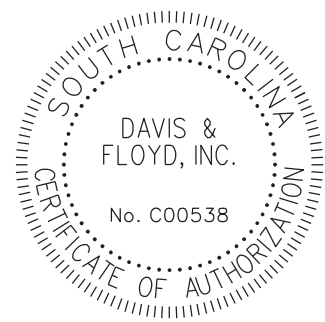
CONSTRUCTION PLANS

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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X3	



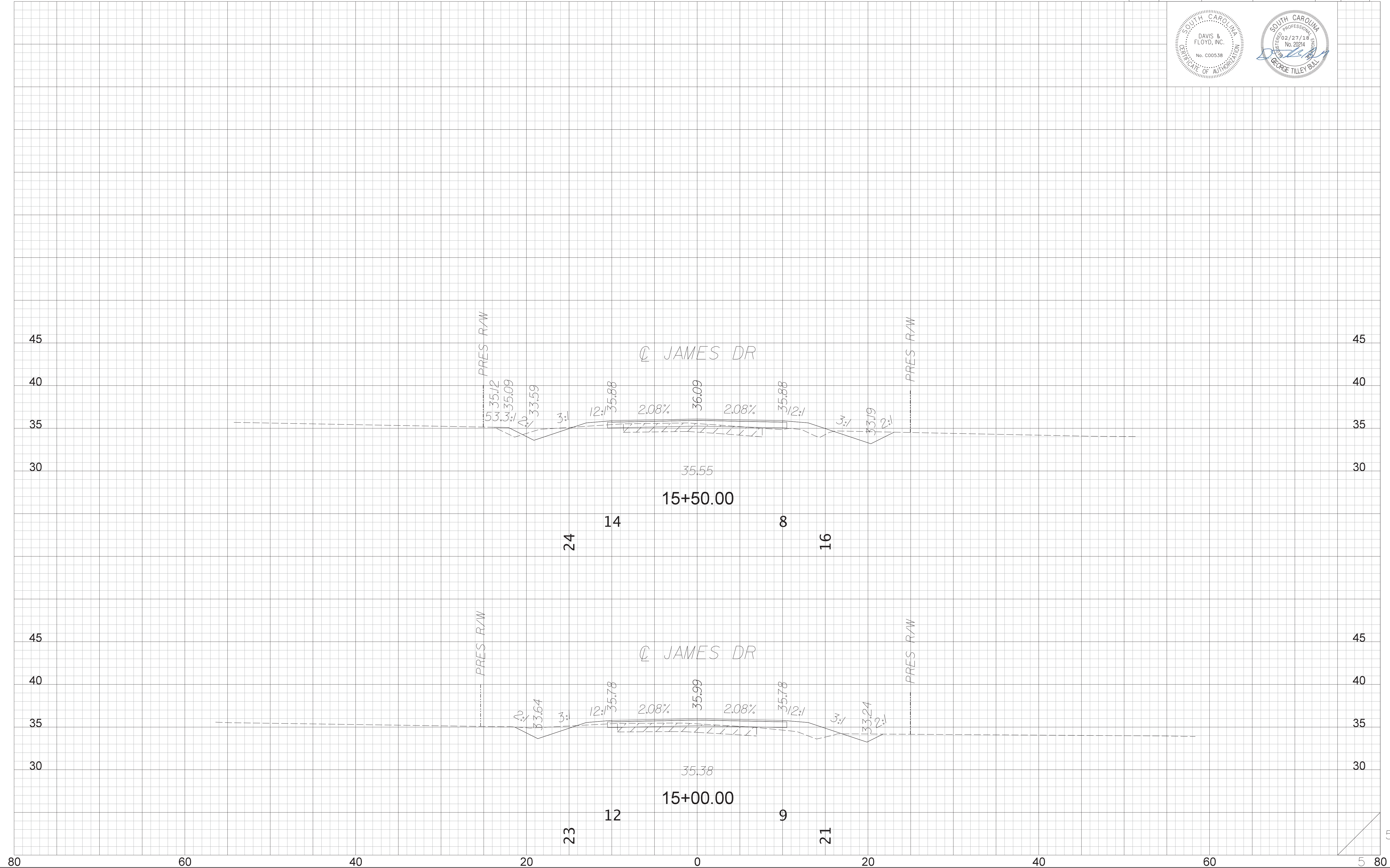
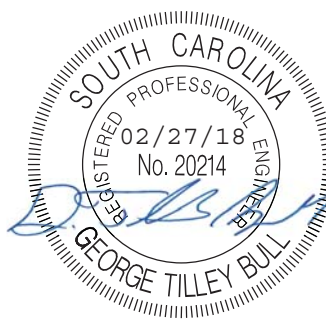
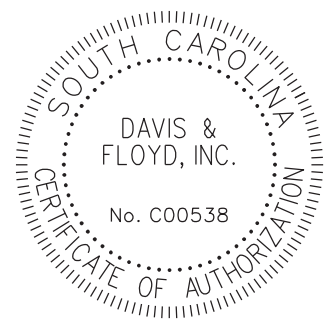
CONSTRUCTION PLANS

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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X4	



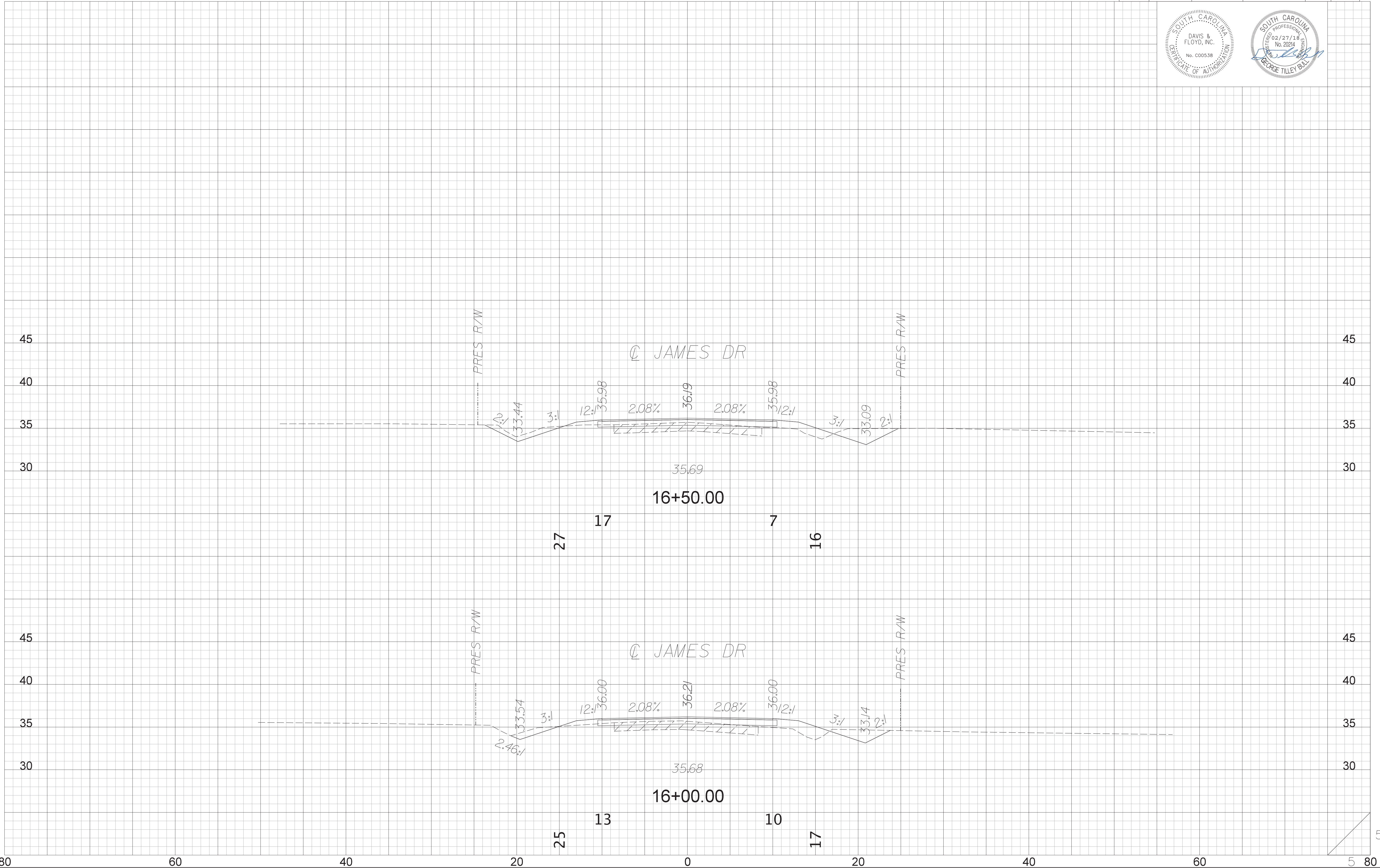
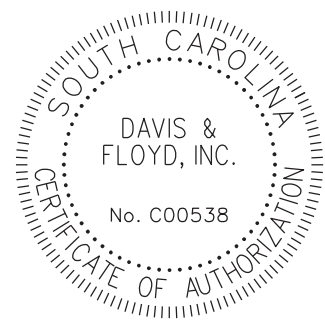
CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X5	



CONSTRUCTION PLANS

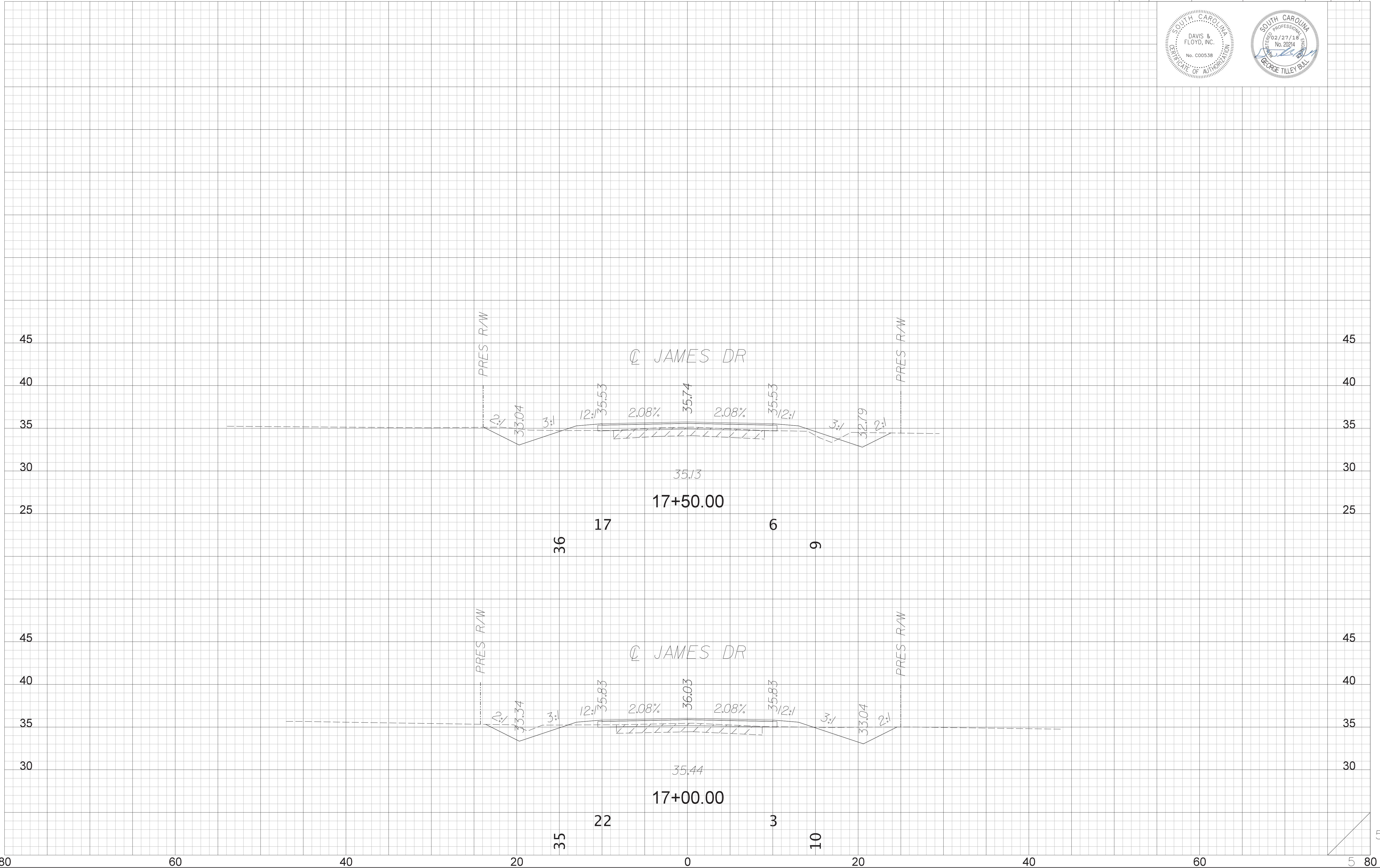
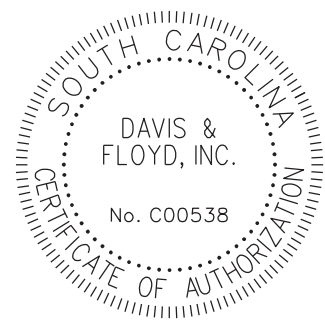
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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X6	





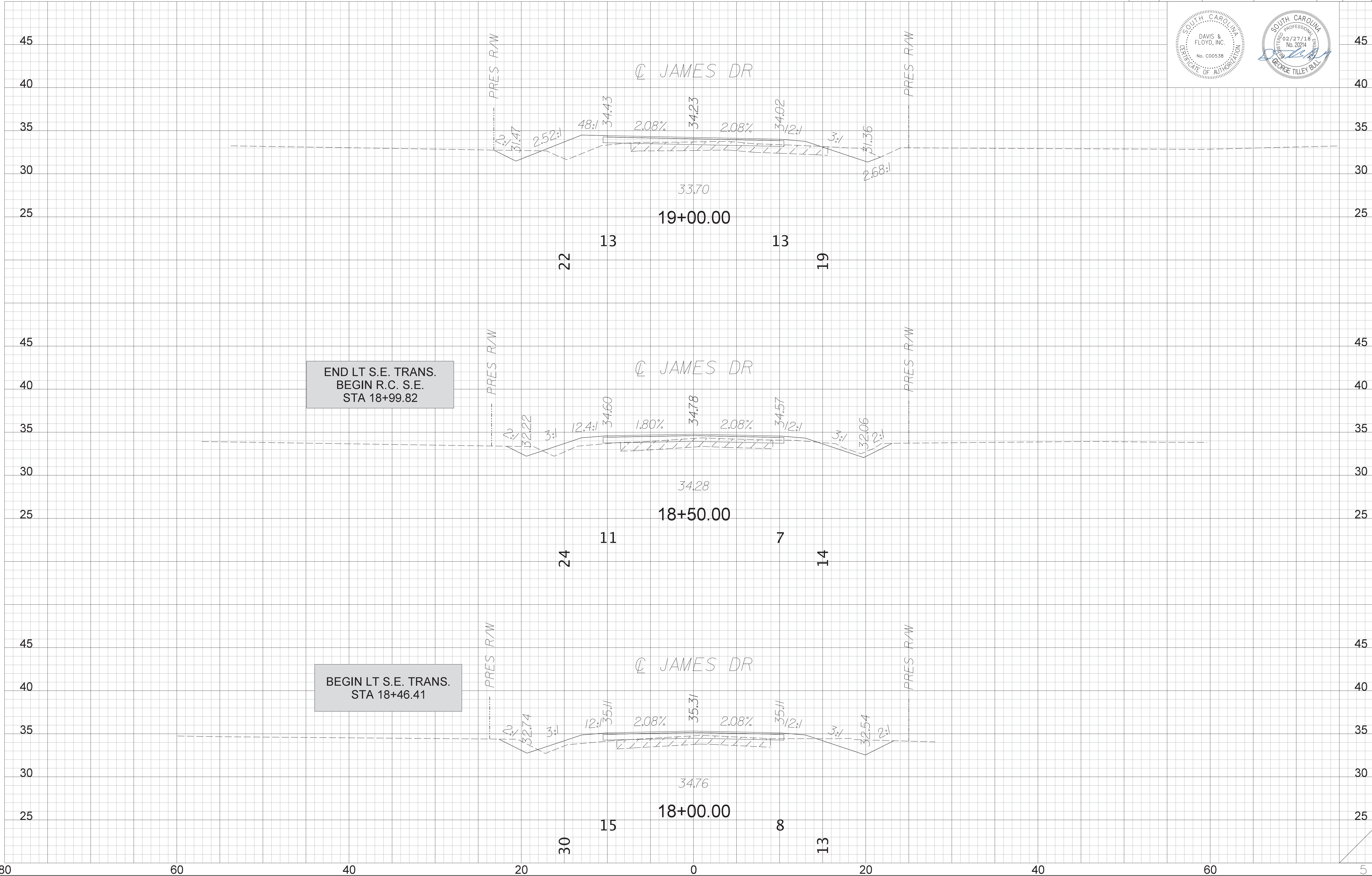
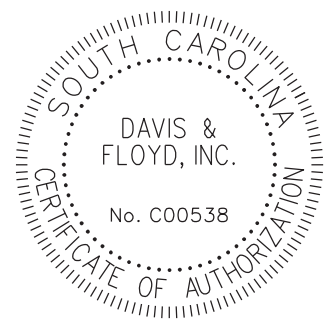
CONSTRUCTION PLANS

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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X7	



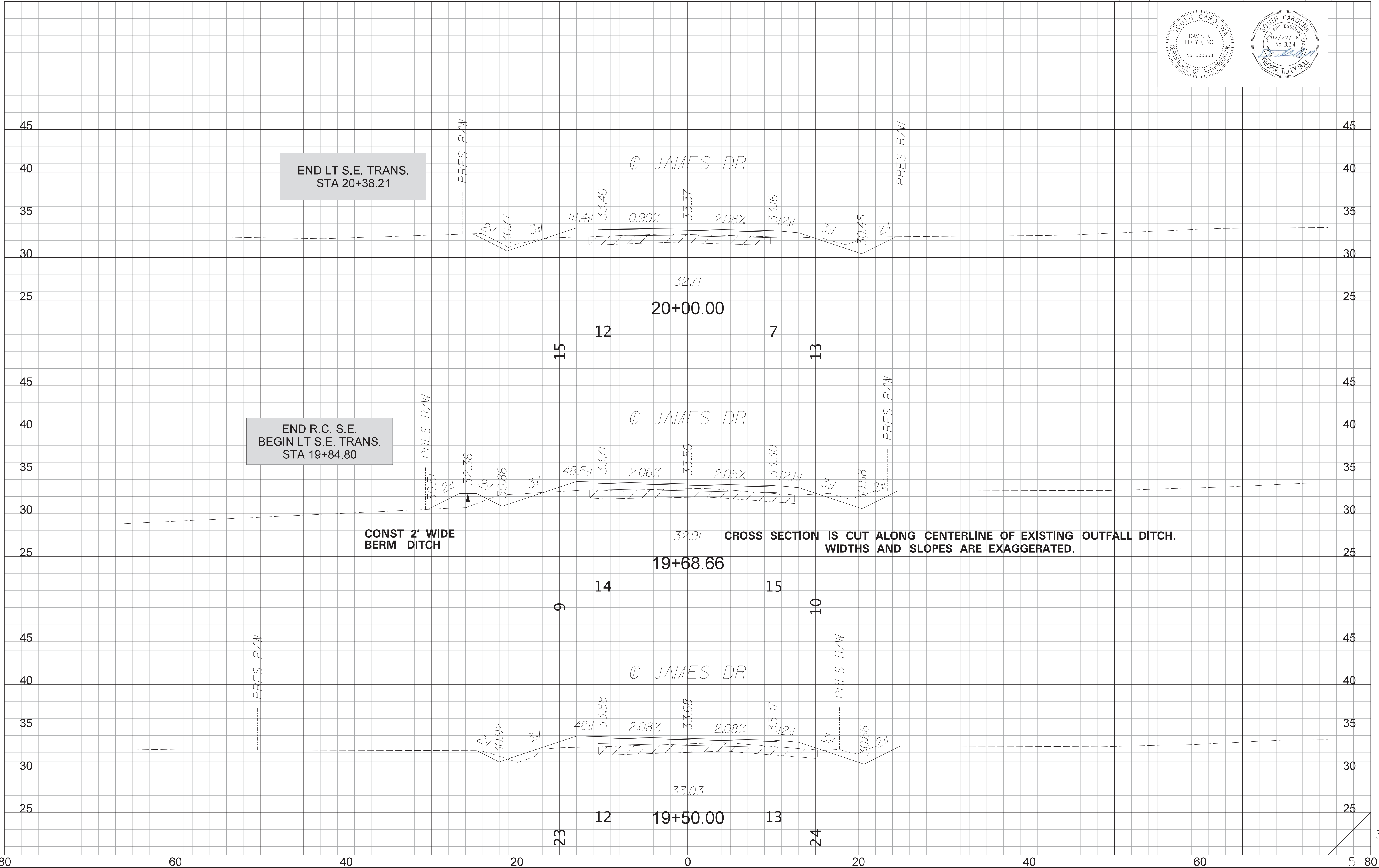
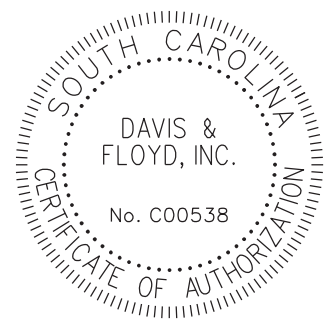
CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X8	



CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X9	

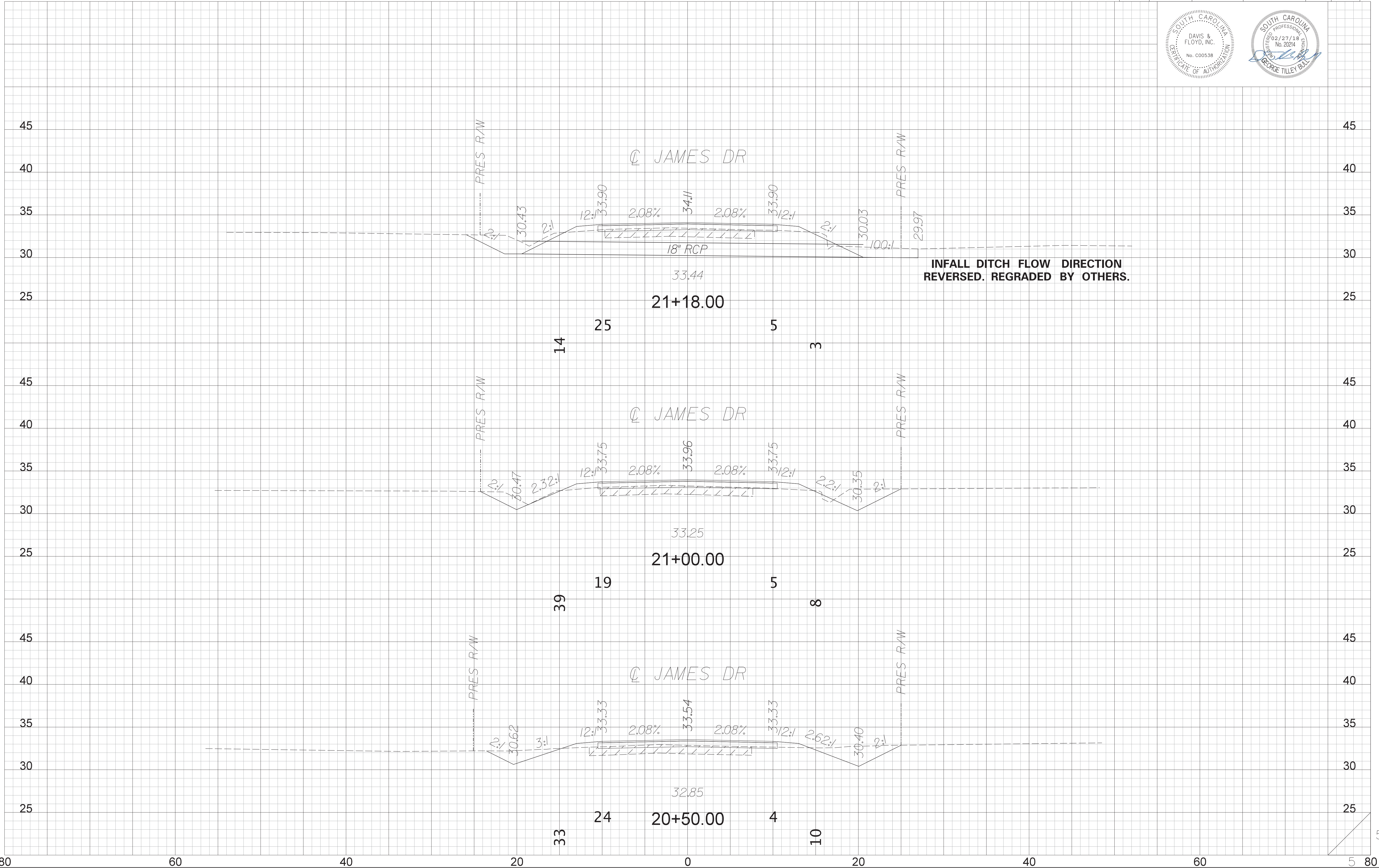
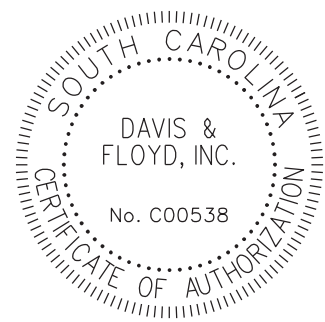


END LT S.E. TRANS.  
STA 20+38.21

END R.C. S.E.  
BEGIN LT S.E. TRANS.  
STA 19+84.80

CONSTRUCTION PLANS

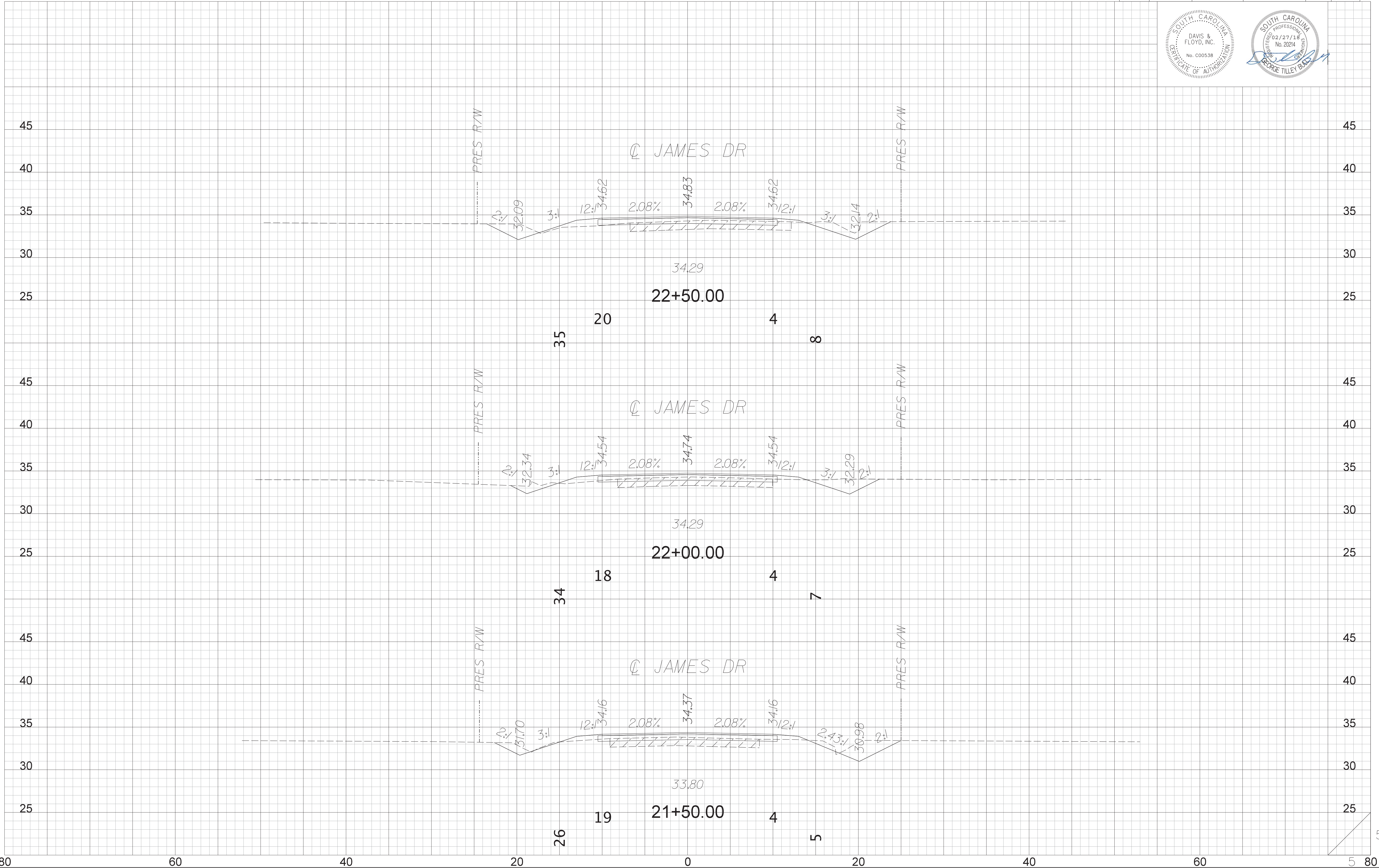
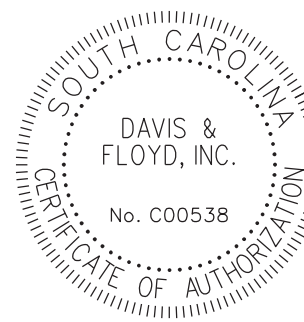
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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X10	



INFALL DITCH FLOW DIRECTION REVERSED. REGRADED BY OTHERS.

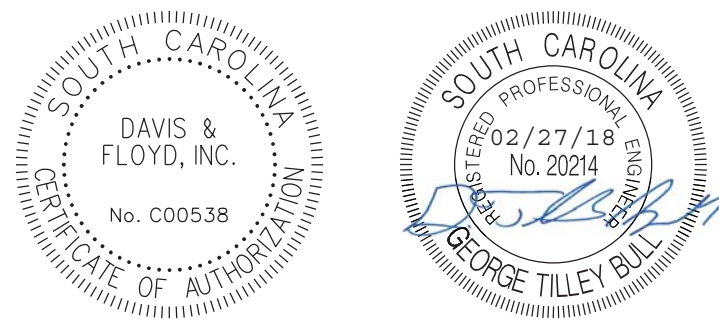
CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X11	



CONSTRUCTION PLANS

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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X12	



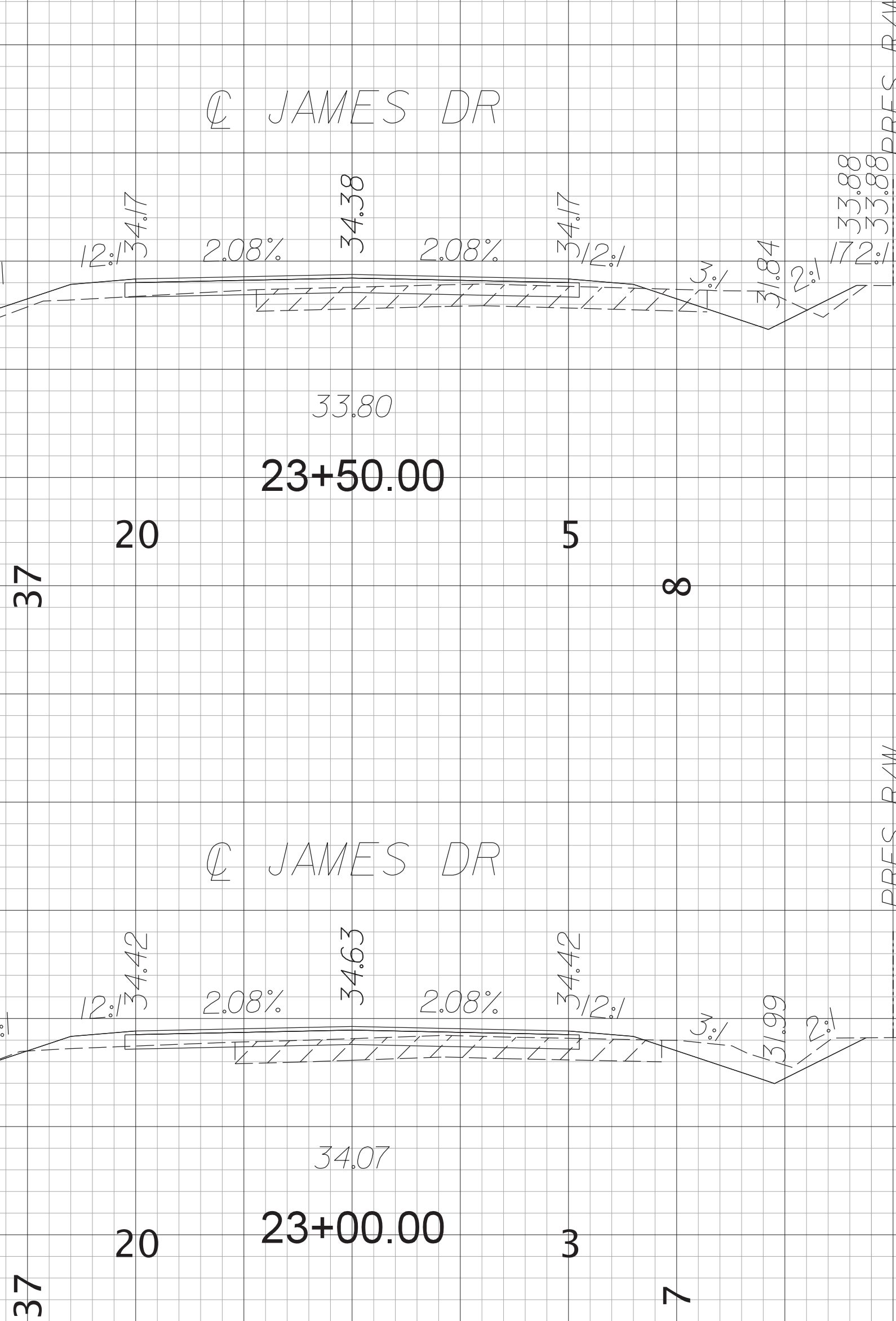
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STA 23+69.19

Q JAMES DR

Q JAMES DR

33.80  
23+50.00

34.07  
23+00.00



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40  
35  
30  
25

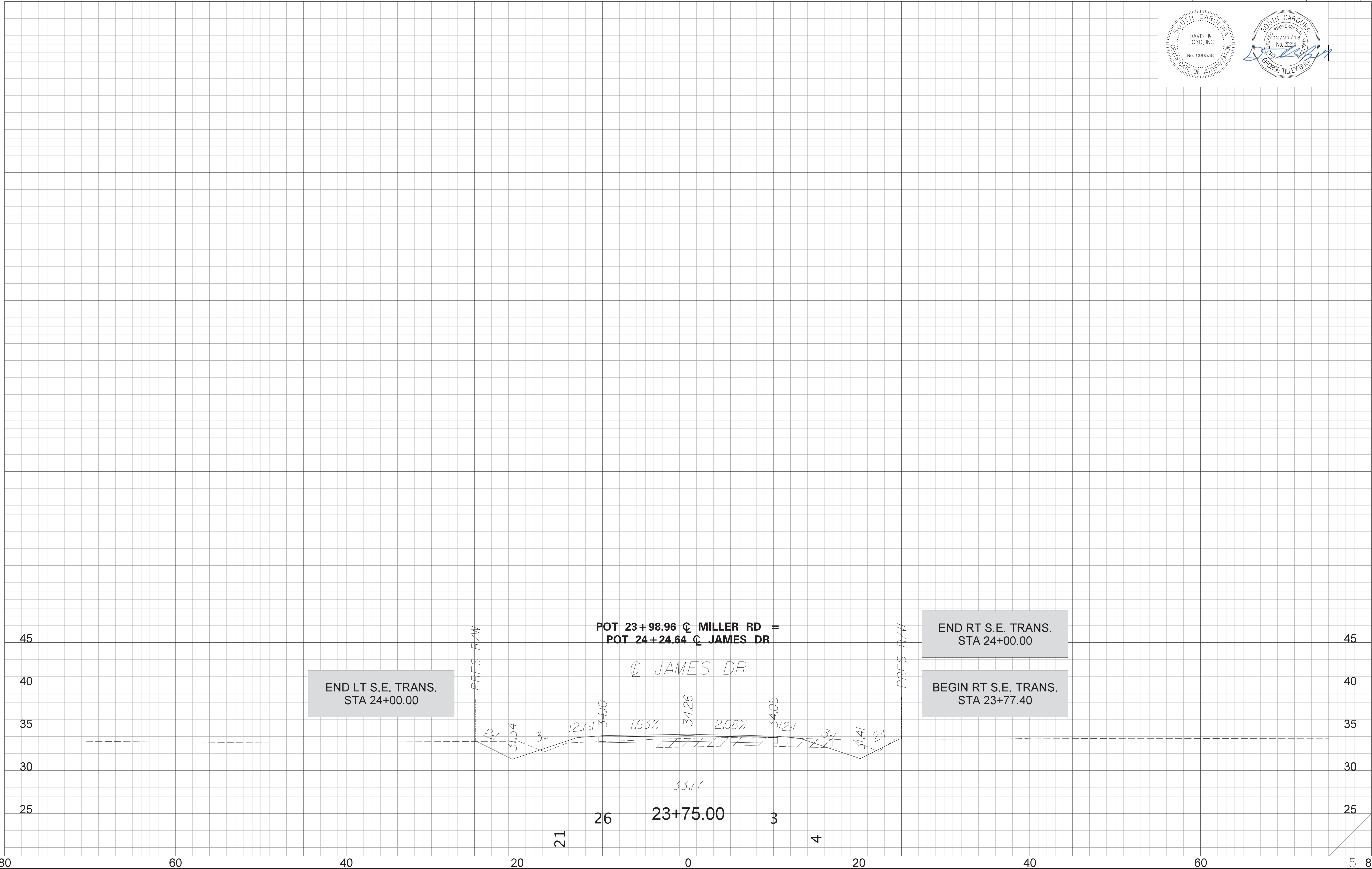
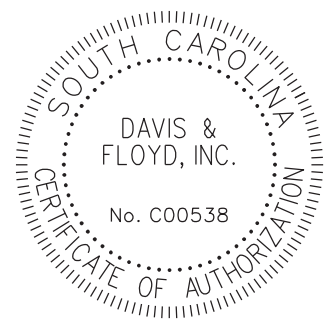
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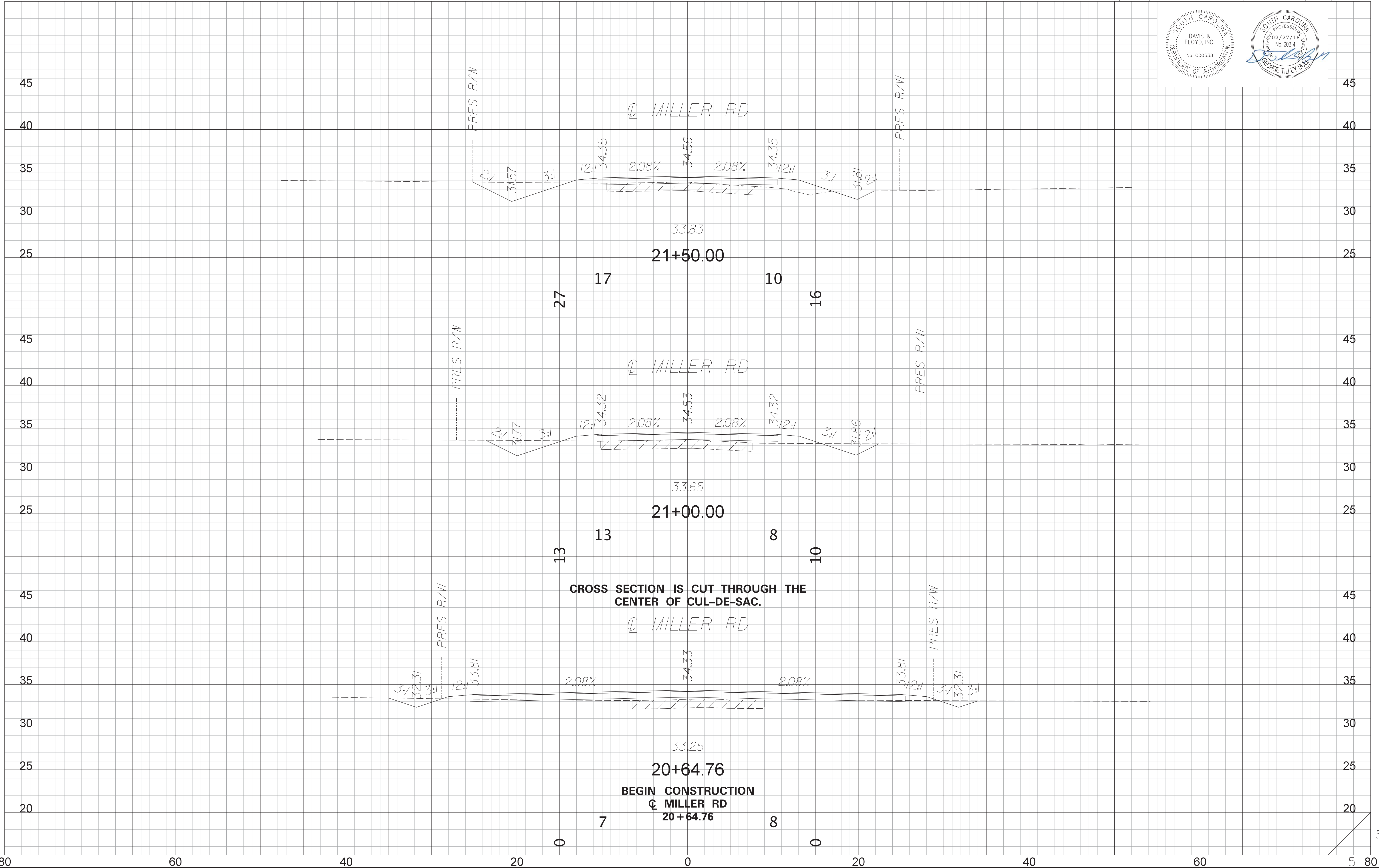
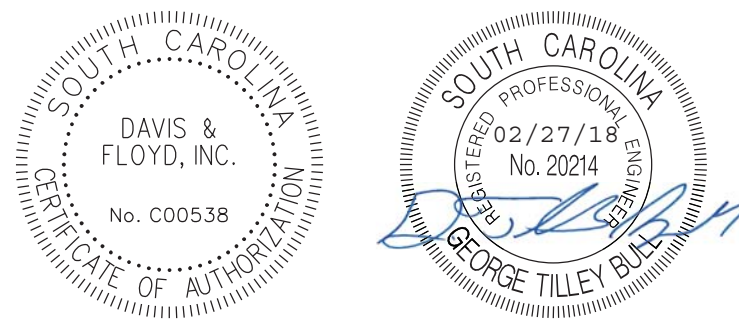
CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X13	



CONSTRUCTION PLANS

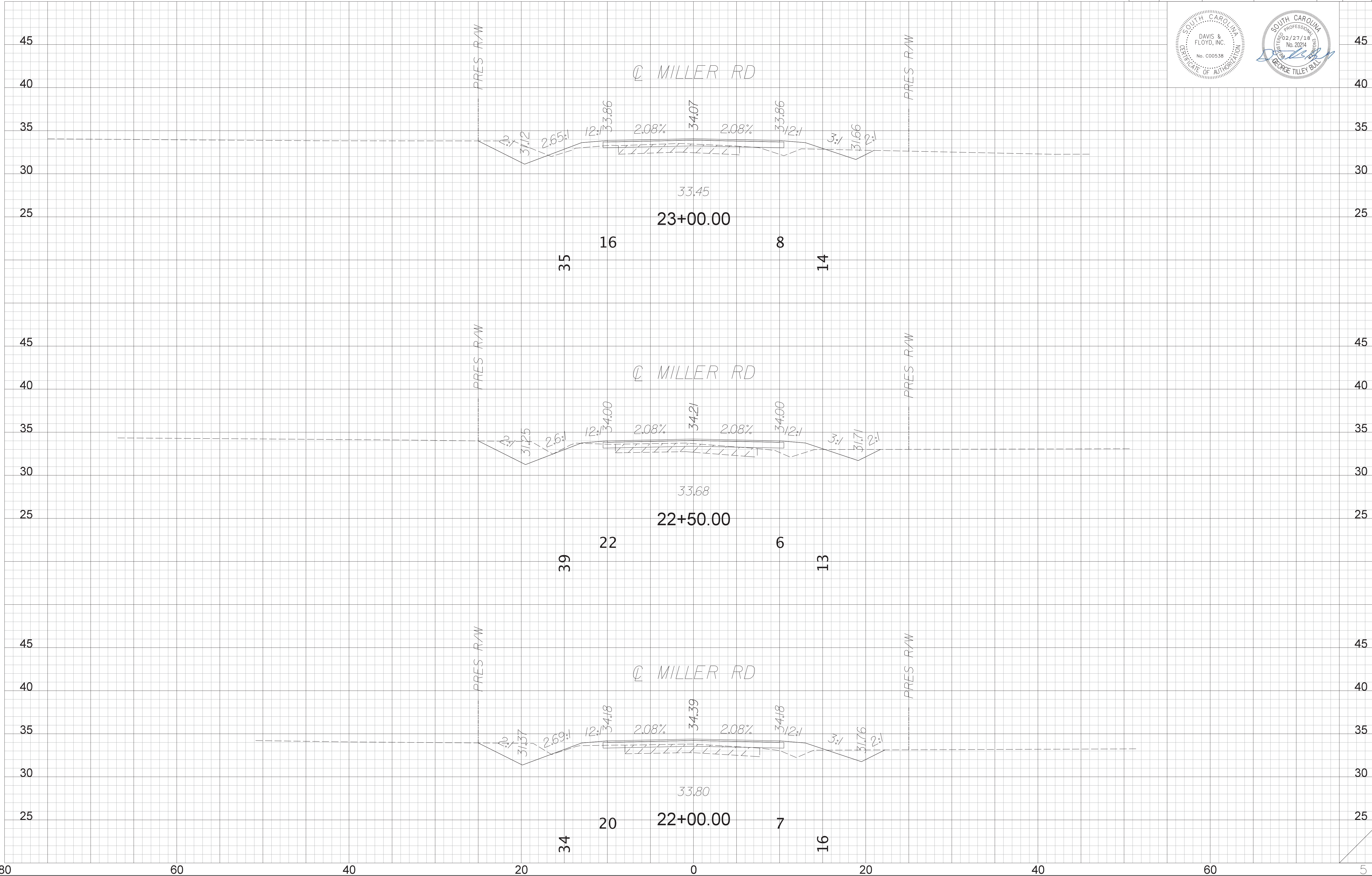
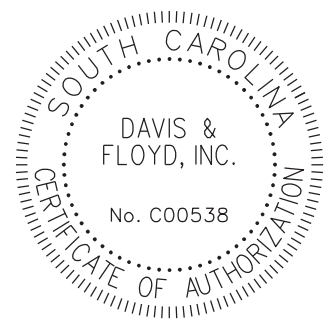
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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X14	





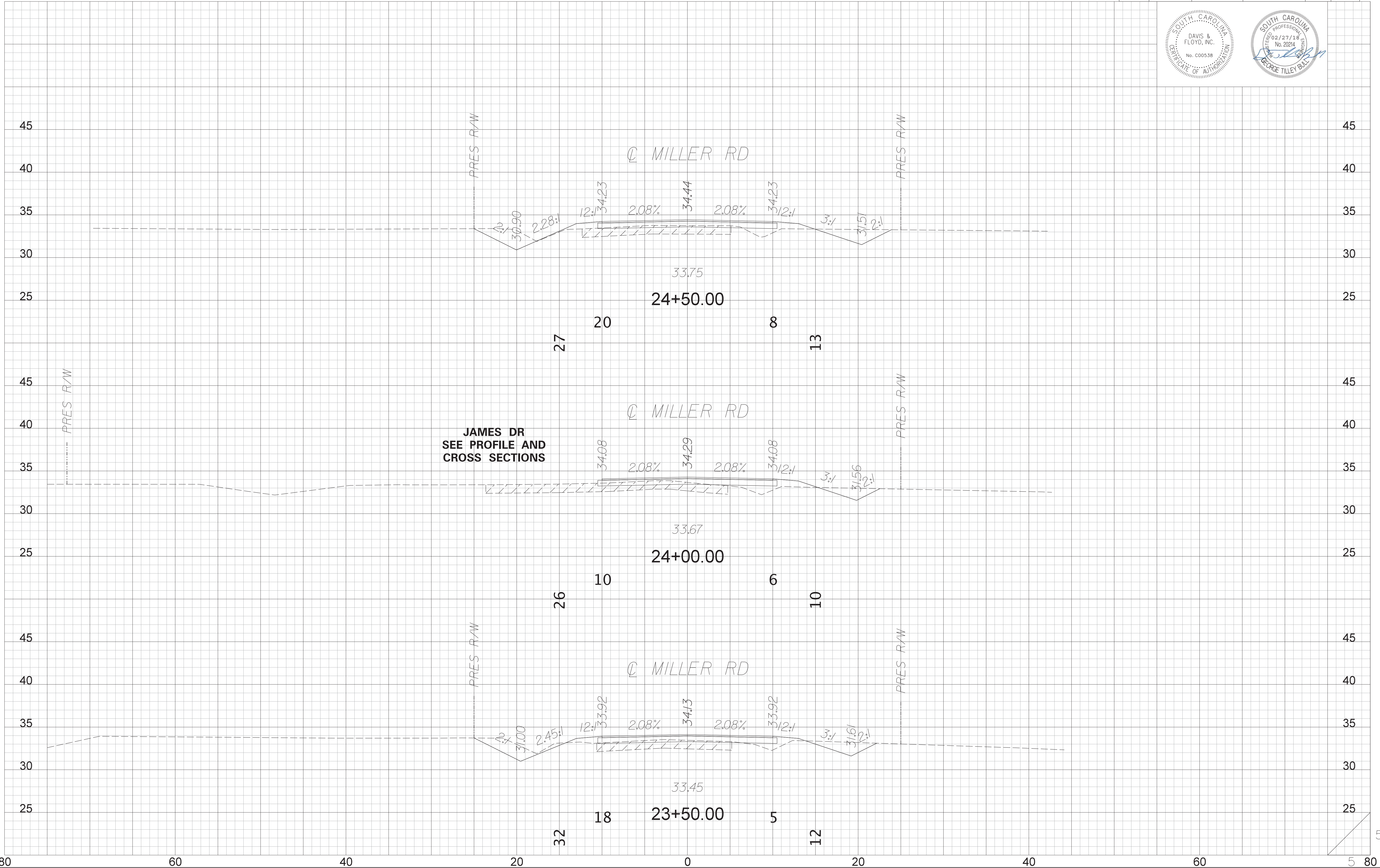
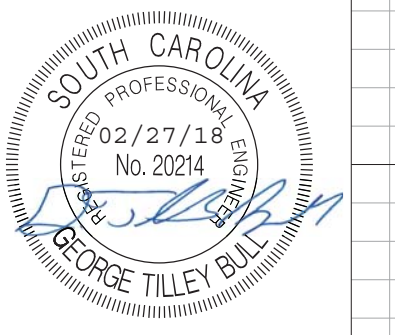
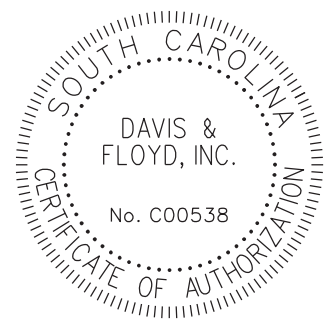
CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X15	



CONSTRUCTION PLANS

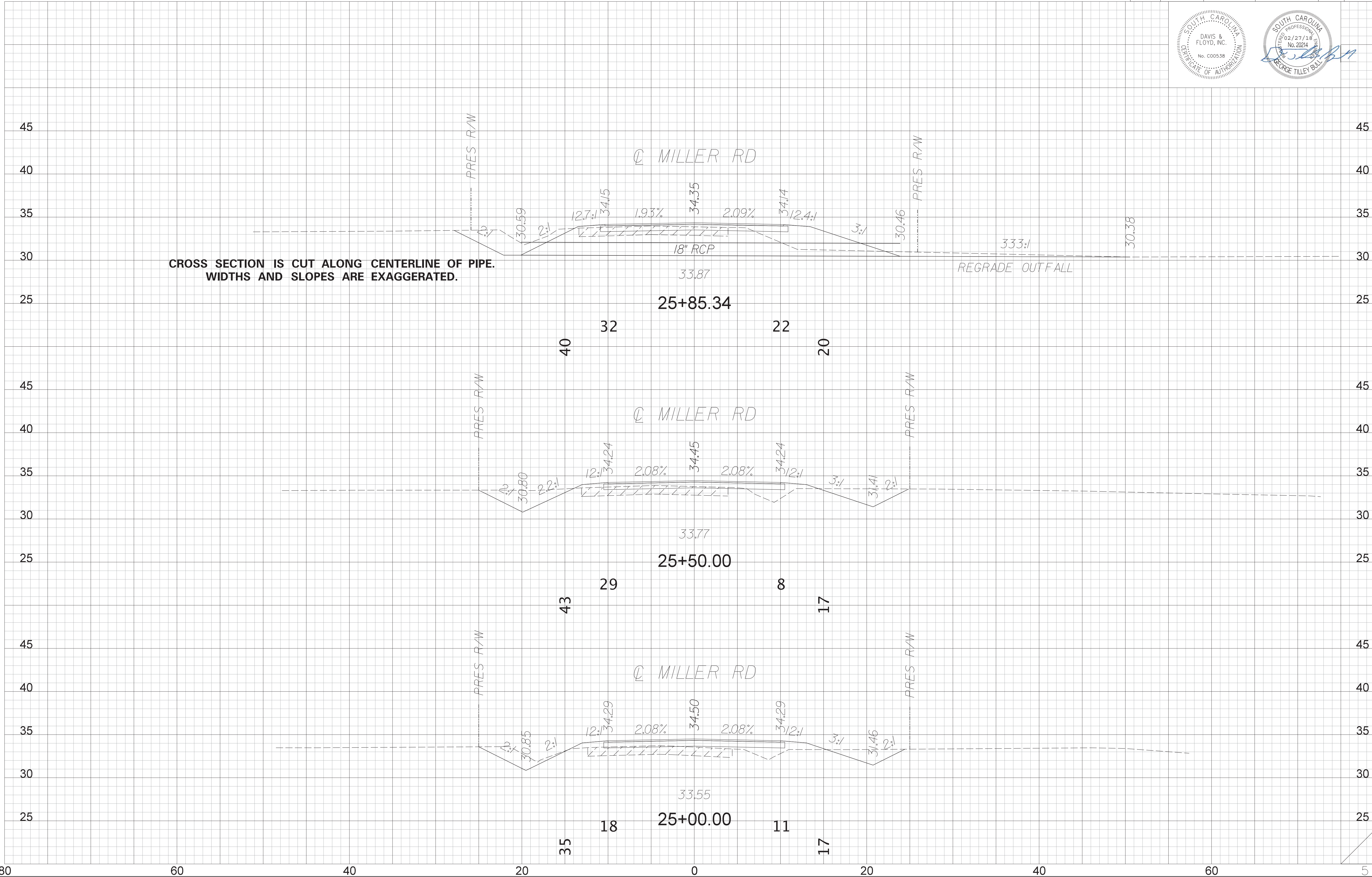
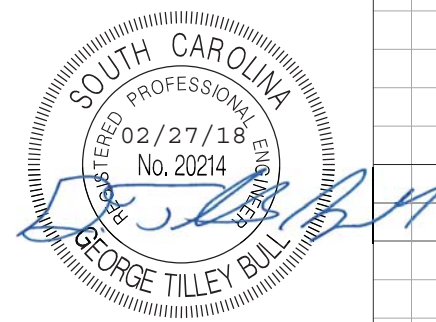
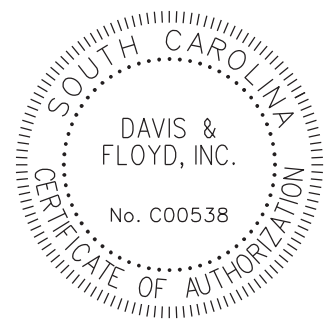
STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X16	



JAMES DR  
SEE PROFILE AND  
CROSS SECTIONS

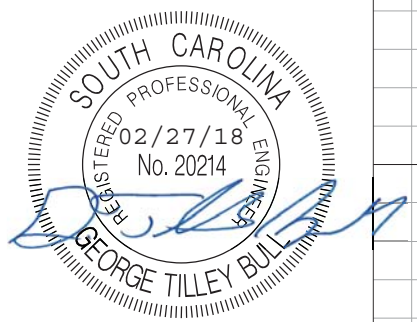
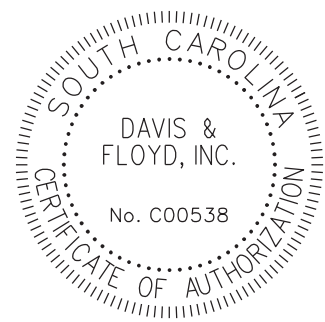
CONSTRUCTION PLANS

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S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X17	

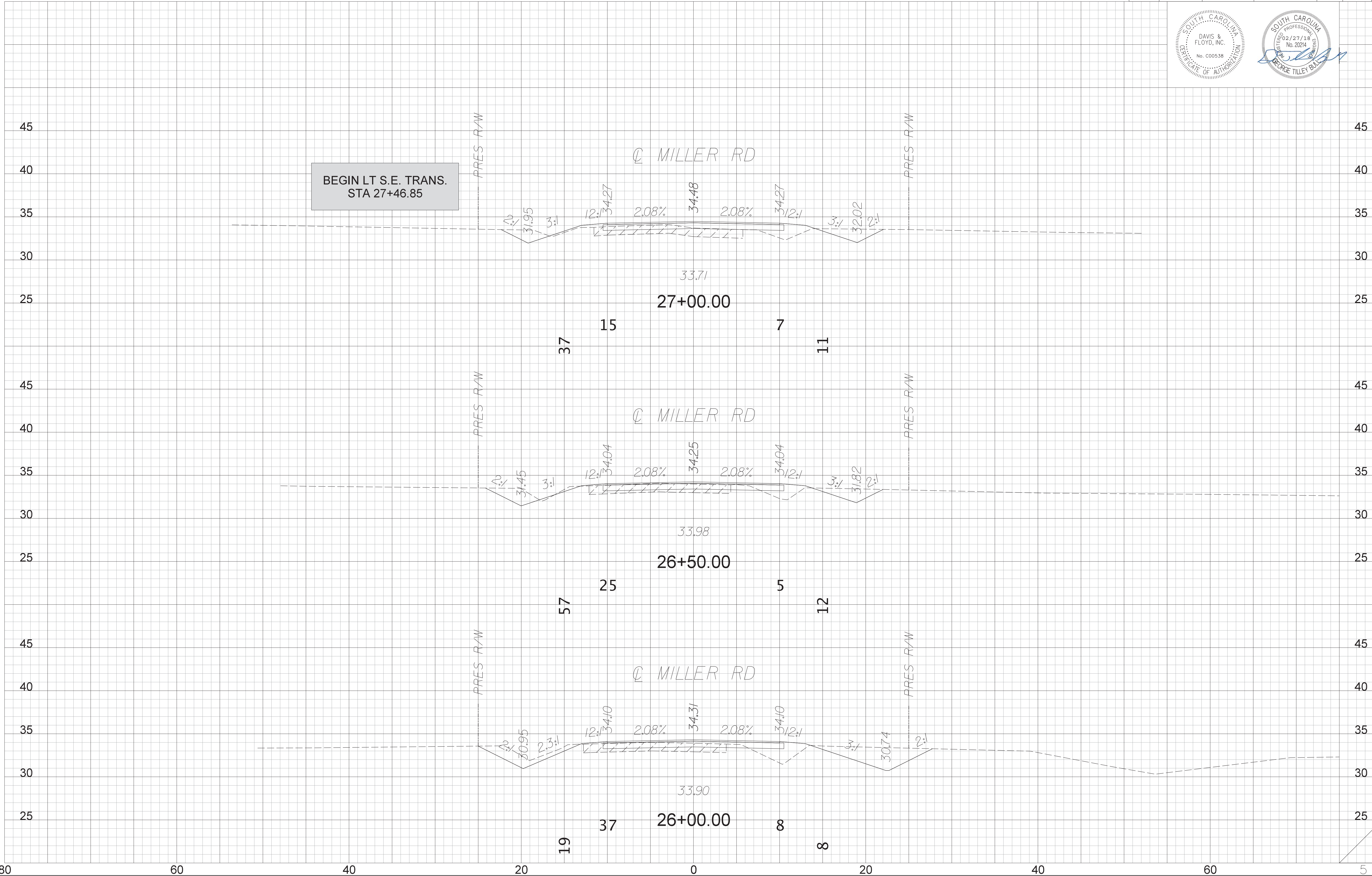


CONSTRUCTION PLANS

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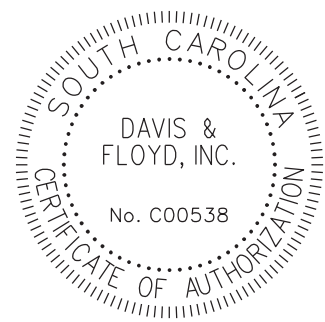


BEGIN LT S.E. TRANS.  
STA 27+46.85



CONSTRUCTION PLANS

STATE	COUNTY	D&F PROJECT NO.	ROAD NAME	SHEET NO.	TOTAL SHEETS
S.C.	GEORGETOWN	31742.09	JAMES DR & MILLER RD	X19	



POT 28+14.65 @ MILLER RD =  
POT 31+10.85 @ S-129 (JONES AVE)

END CONSTRUCTION  
@ MILLER RD  
28+04.12

END RT S.E. TRANS.  
STA 27+85.00

BEGIN RT S.E. TRANS.  
STA 27+71.85

END LT S.E. TRANS.  
STA 27+85.00

CROSS SECTION IS CUT THROUGH A RADIUS RETURN.  
WIDTHS AND SLOPES ARE EXAGGERATED.

@ MILLER RD

@ MILLER RD

27+70.00

27+50.00

18 30 2 2

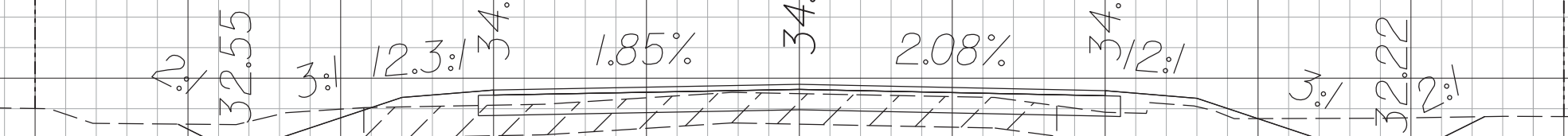
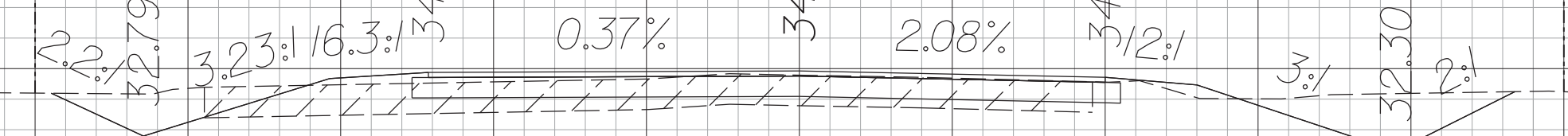
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PRES R/W

PRES R/W

PRES R/W

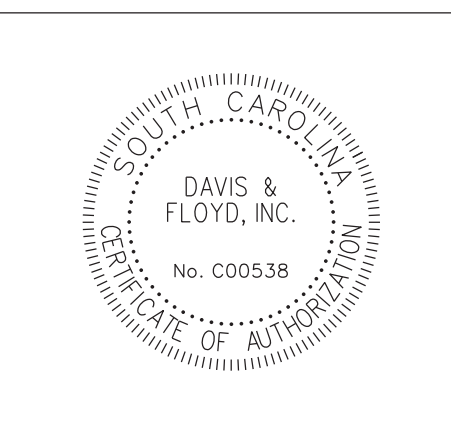
PRES R/W



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 3/15/2018

PERMANENT SEEDING - COASTAL													
SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	30 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
ATLANTIC COASTAL PANICGRASS	15 LBS/Ac PLS												
BROWNTOP MILLET	10 LBS/Ac												
SWITCHGRASS (ALAMO)	8 LBS/Ac PLS												
LITTLE BLUESTEM	4 LBS/Ac												
SERICA LESPEDEZA	20 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
WEeping LOVEGRASS	8 LBS/Ac												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
RYE, GRAIN	10 LBS/Ac												
BAHIAGRASS	40 LBS/Ac												
CLOVER, CRIMSON (ANNUAL)	5 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
BAHIAGRASS	30 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWTOP MILLET	10 LBS/Ac												
BERMUDA, COMMON	10 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BERMUDA, COMMON	12 LBS/Ac												
KOBE LESPEDEZA (ANNUAL)	10 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
BAHIAGRASS	20 LBS/Ac												
BERMUDA, COMMON	6 LBS/Ac												
SERICA LESPEDEZA	40 LBS/Ac												
BROWNTOP MILLET	10 LBS/Ac												
SWITCHGRASS	8 LBS/Ac												
LITTLE BLUESTEM	PLS												
INDIANGRASS	3 LBS/Ac PLS 3 LBS/Ac PLS												
TEMPORARY SEEDING - COASTAL													
SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40 LBS/Ac												
RYE, GRAIN	56 LBS/Ac												
RYEGRASS	50 LBS/Ac												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40 LBS/Ac												
RYE, GRAIN OR	56 LBS/Ac												
OATS	75												
RYEGRASS	50 LBS/Ac												

NOTES:  
 1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.  
 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.



**DAVIS & FLOYD**  
 SINCE 1954

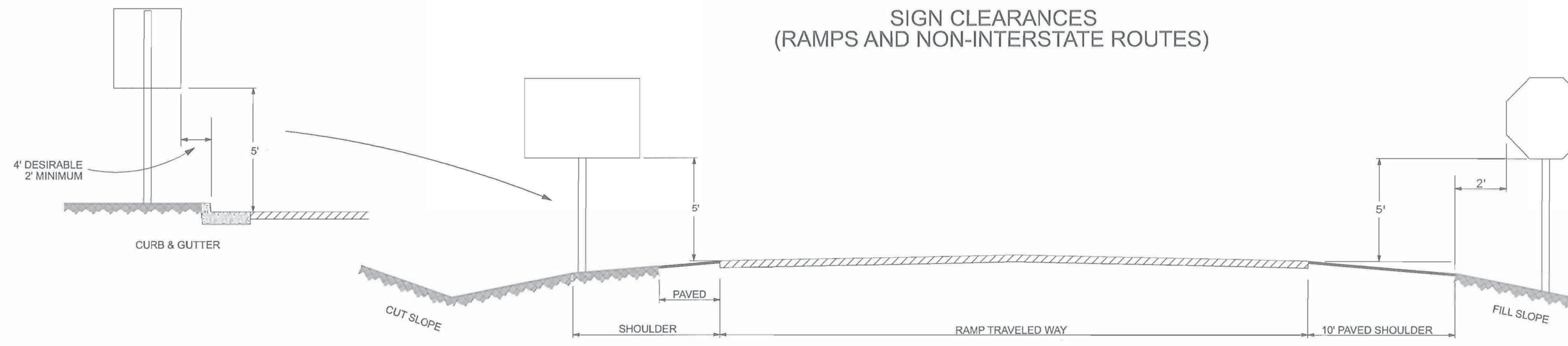
3220 W. MONTAGUE AVENUE  
 CHARLESTON, SC 29418  
 (843) 554-8602

SEEDING SCHEDULE

N.T.S.

# TYPICAL INSTALLATION GUIDE (2)

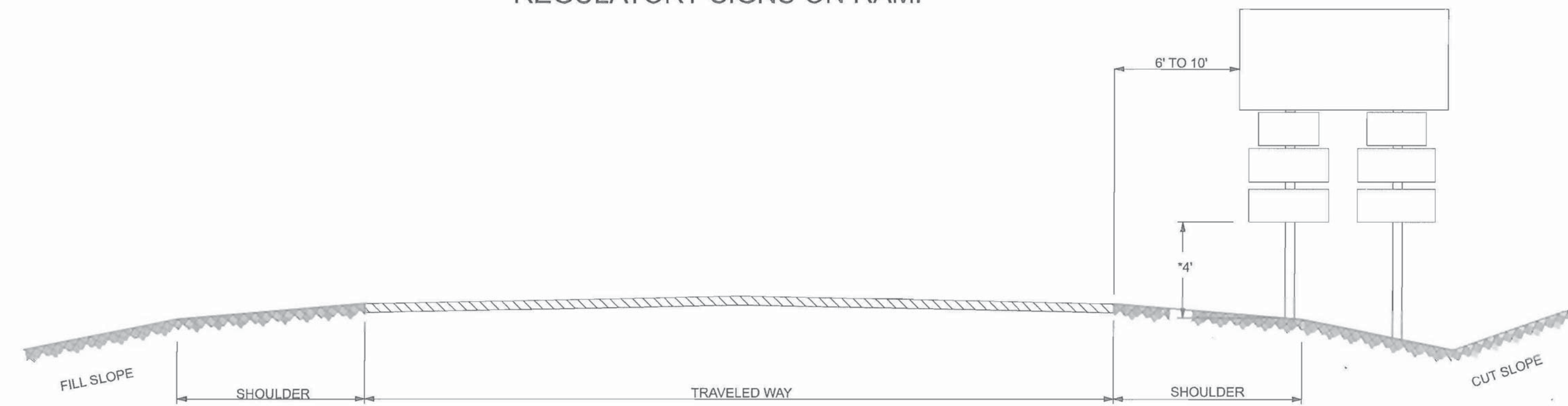
## SIGN CLEARANCES (RAMPS AND NON-INTERSTATE ROUTES)



- NOTES:
- 1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
  - 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

## REGULATORY SIGNS ON RAMP

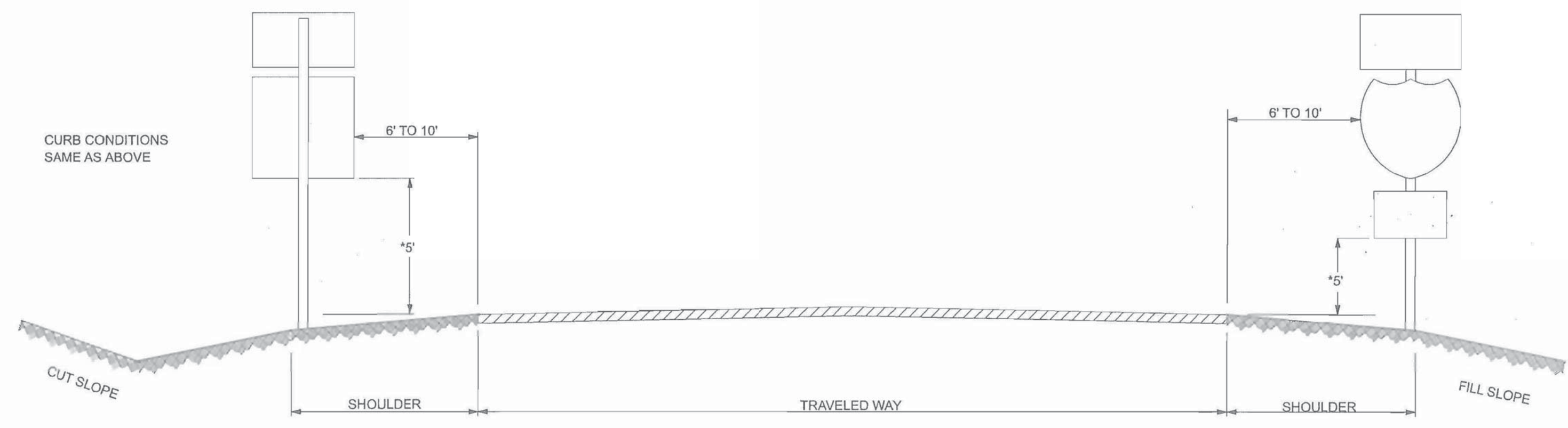
× (1) USE 4' VERTICAL CLEARANCE WHERE A PLATE (EITHER SUPPLEMENTARY, DISTANCE, ADVISORY SPEED, ETC.) IS USED UNDER A SIGN.



## DESTINATION SIGNS ON RAMPS

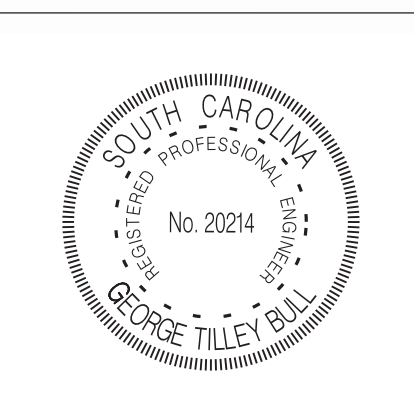
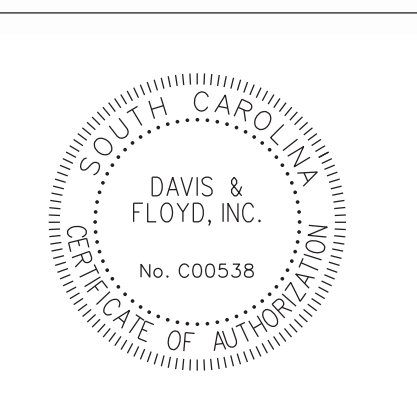
× (1) USE 7' VERTICAL CLEARANCE WHERE PARKING OR PEDESTRIAN TRAFFIC IS PREVALENT.

(2) USE 4' VERTICAL CLEARANCE WHERE A PLATE (EITHER SUPPLEMENTARY, DISTANCE, ADVISORY SPEED, ETC.) IS USED UNDER A SIGN.



## CROSS ROADS AND FRONTAGE ROADS

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PEN TABLE: 11-17RW.tbl  
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FILE: G:\Jobs\seven\31742-09\Production\Transportation\c.dgn\Const\plpr\I2.dgn  
3/15/2018



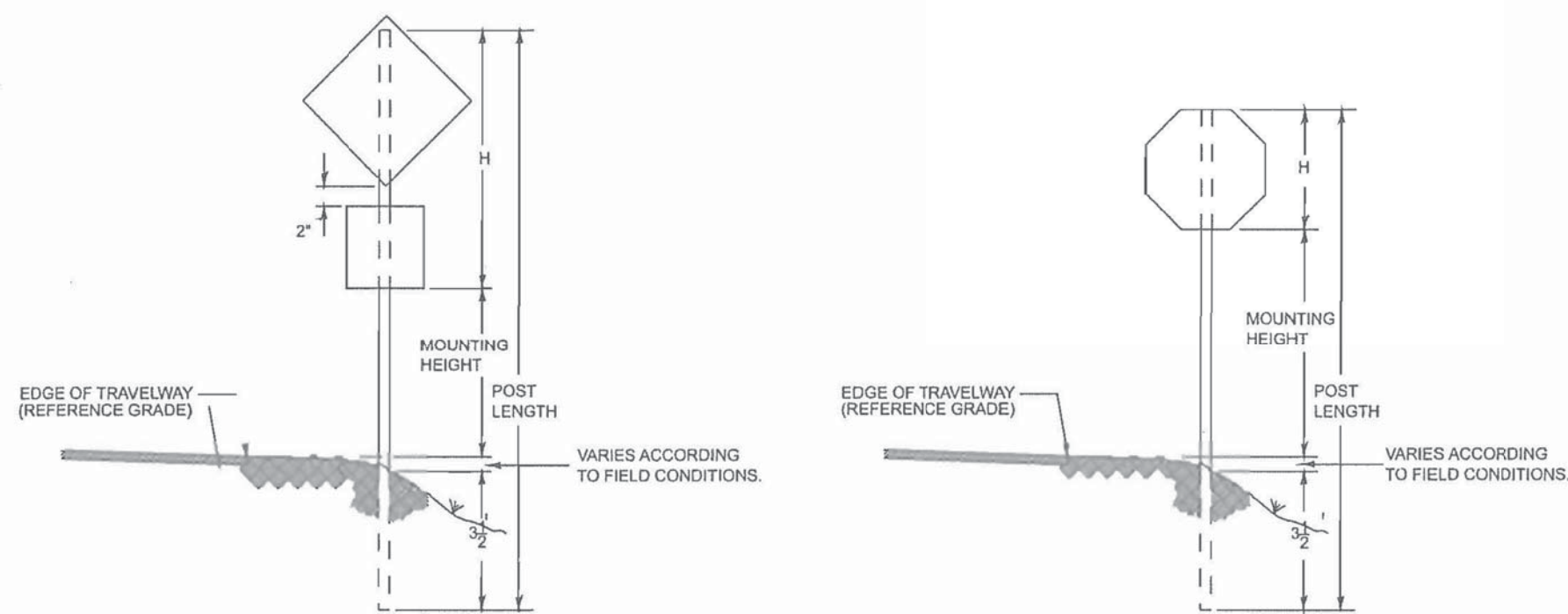
**DAVIS & FLOYD**  
SINCE 1954

3222 W. MONTAGUE AVENUE  
CHARLESTON, SC 29418  
(843) 554-8602

SIGN INSTALLATION DETAIL

N.T.S.

# FLAT SHEET SIGN MOUNTING DETAILS



SIGNS MOUNTED ON FREEWAY RAMP AND CONVENTIONAL ROADS

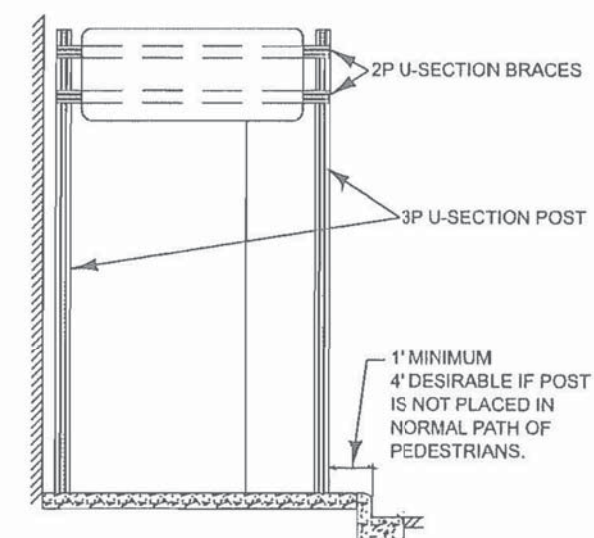
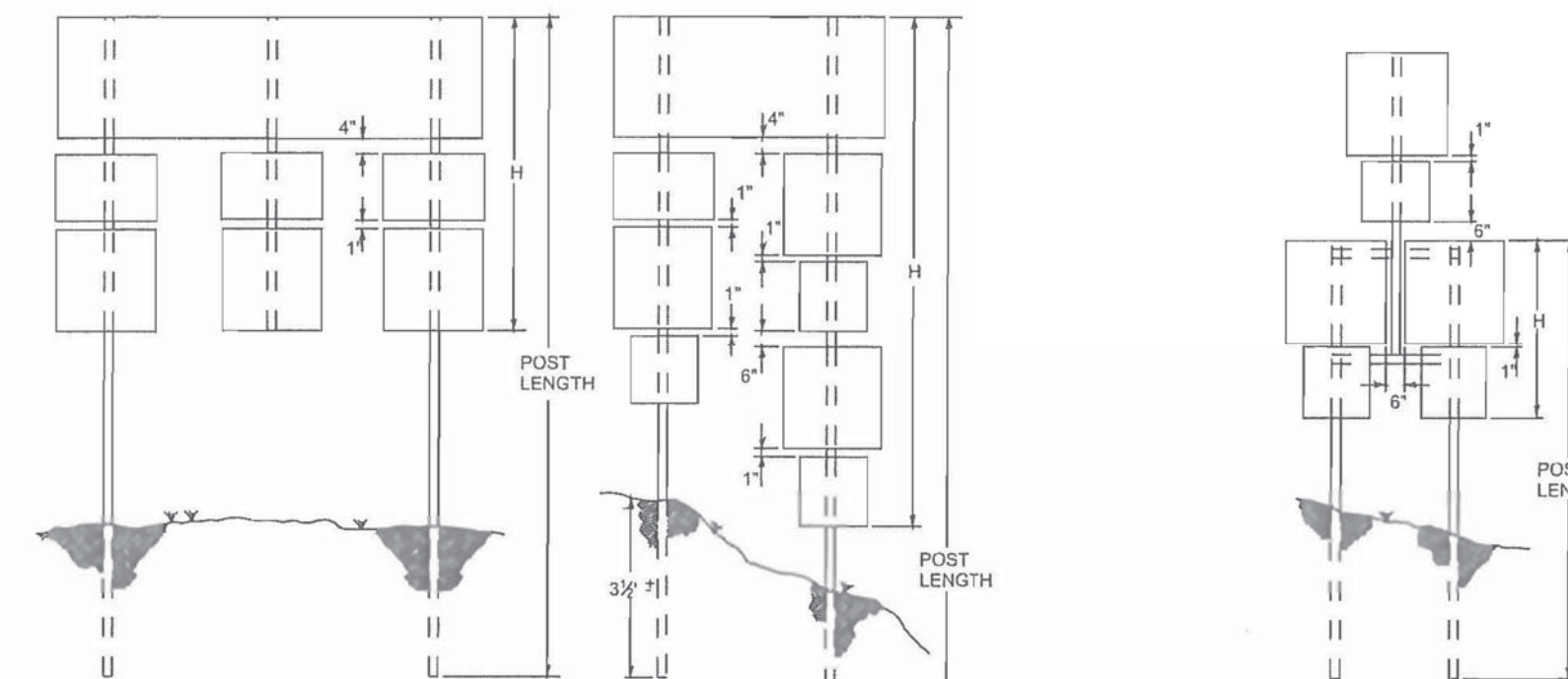


ILLUSTRATION OF SIGN ASSEMBLY SPANNING SIDEWALK

NOTE:  
THE PURPOSE OF SPANNING THE SIDEWALK IS TO PROVIDE AN UNOBSTRUCTED WAY FOR PEDESTRIANS, AND AT THE SAME TIME LOCATE SIGNS WITHIN RIGHT-OF-WAY WITH GOOD VISIBILITY FOR TRAFFIC. EACH INSTALLATION MUST BE INDIVIDUALLY PLANNED AND CONSTRUCTED TO ACCOMPLISH THIS PURPOSE. THE PROJECT ENGINEER SHOULD APPROVE THE CONTRACTOR'S PLAN FOR SUPPORTING SIGNS SPANNING SIDEWALKS BEFORE THEY ARE ERECTED.



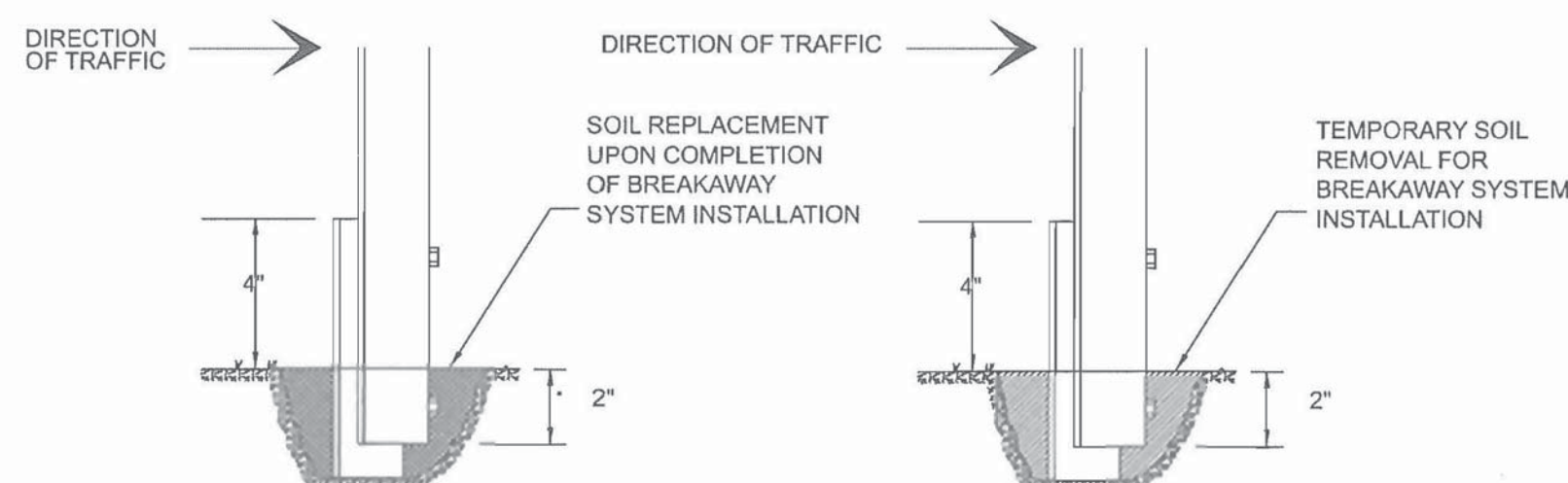
THIS TABLE GIVES APPROXIMATE POST LENGTH FOR NORMAL CONDITIONS. WHEN CUT OR FILL SECTIONS ARE SIGNIFICANT, POST LENGTH SHALL BE ADJUSTED ACCORDINGLY.

WHEN H IS LESS THAN 2'	2' TO 2'-11"	3' TO 3'-11"	4' TO 4'-11"	5' AND LONGER
POST LENGTH (FT.) FOR 5' MOUNTING HGT.	12'	13'	14'	H PLUS 10'

NOTE: ADD 2' TO POST LENGTH FOR 7' MOUNTING HEIGHT.

NOTE:  
POST LENGTHS NOT SHOWN ON THIS SHEET ARE SHOWN ON THE PLAN SHEETS.

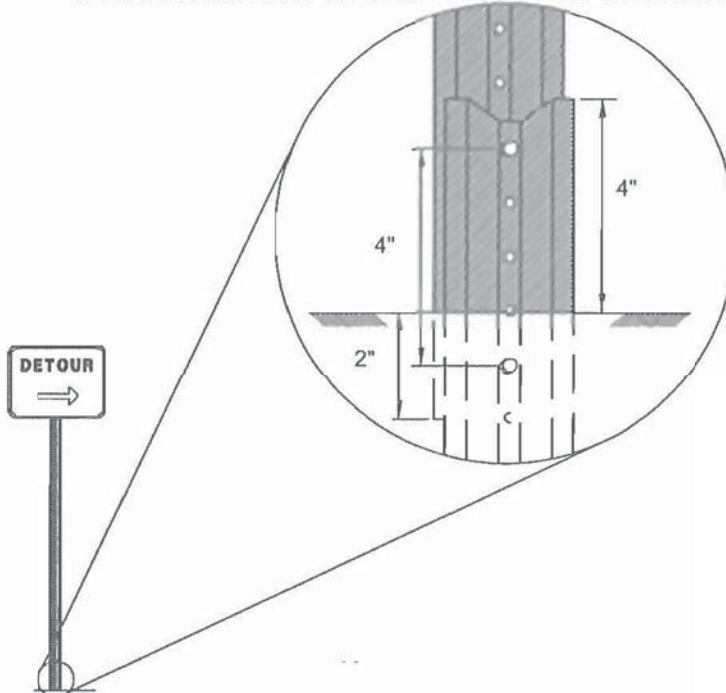
- NOTES:
- 1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
  - 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.



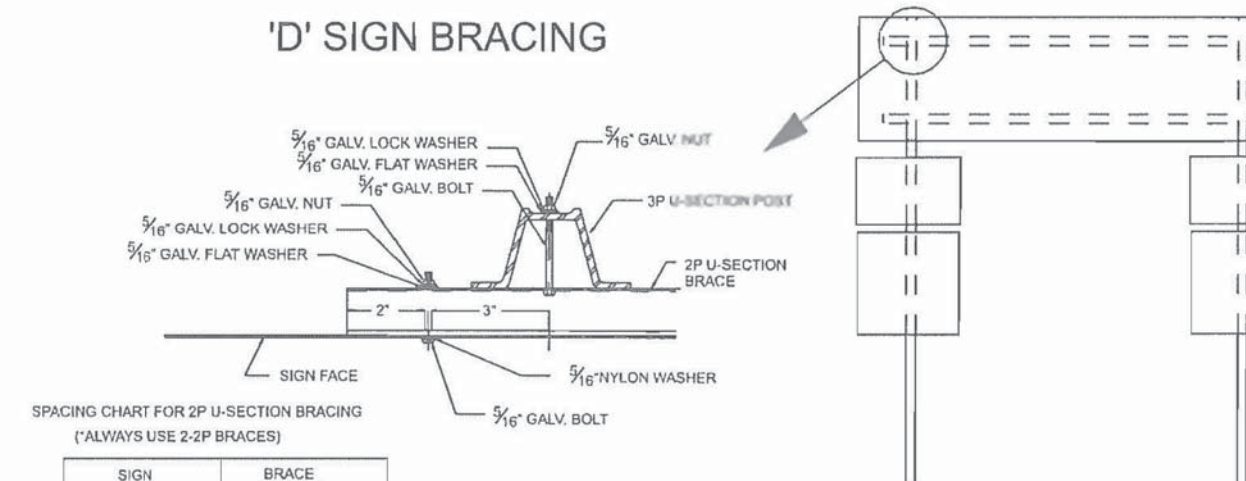
DRIVE THE GROUND SUPPORT (STUB) APPROXIMATELY 30" TO 36" INTO THE GROUND AS SPECIFIED BY THE MANUFACTURER OF THE BREAKAWAY SYSTEM SO THAT NO MORE THAN 4" OF THE GROUND SUPPORT (STUB) EXTENDS ABOVE THE GROUND. REMOVE ENOUGH SOIL FROM AROUND THE GROUND SUPPORT (STUB) TO PERMIT ACCESS TO THE HOLES FOR THE INSERTION AND TIGHTENING OF THE LOWER BOLT OF THE BREAKAWAY SYSTEM. UPON COMPLETING THE INSTALLATION OF THE BREAKAWAY SYSTEM, REPLACE THE SOIL AND TAMP.

LAP SPLICE FOR U-SECTION POSTS

BOLTS MUST BE 4" APART. THE GROUND SUPPORT (STUB) SHALL NOT EXTEND HIGHER THAN 4" ABOVE THE GROUND. ATTACH THE SIGN SUPPORT TO THE BACK OF THE GROUND SUPPORT (STUB) WITH THE APPROPRIATE HARDWARE PROVIDED BY THE MANUFACTURER OF THE BREAKAWAY SYSTEM. OVERALL LENGTH OF THE BREAKAWAY SYSTEM IS 6\"/>



## 'D' SIGN BRACING



SPACING CHART FOR 2P U-SECTION BRACING (FACTORY SIZE & 3P BRACES)

SIGN WIDTH	BRACE LENGTH
72"	66"
78"	66"
84"	64"
90"	66"
96"	72"
102"	78"
108"	84"
114"	84"
120"	88"
126"	92"
132"	100"
144"	104"
150"	108"
156"	112"

- 1.) ALL "D" TYPE SIGNS ARE TO BE SUPPORTED BY 2 VERTICAL U-SECTION POSTS. ALL "D" TYPE SIGNS WHICH ARE 6' WIDE OR WIDER WILL BE HORIZONTALLY BRACED WITH 2, 2P U-SECTION POSTS. ADDITIONALLY, ANY ASSEMBLY OF SIGNS ATTACHED BETWEEN VERTICAL SUPPORTS WILL BE ATTACHED WITH A PRESCRIBED LENGTH OF U-SECTION POST.
- 2.) ALL 2P POSTS USED AS CENTER VERTICAL MEMBERS IN SIGN ASSEMBLIES SHALL HAVE HOLES ON 1" CENTERS FOR ENTIRE LENGTH.

## SIZE & LENGTH OF U-SECTION POSTS FOR SINGLE SIGNS

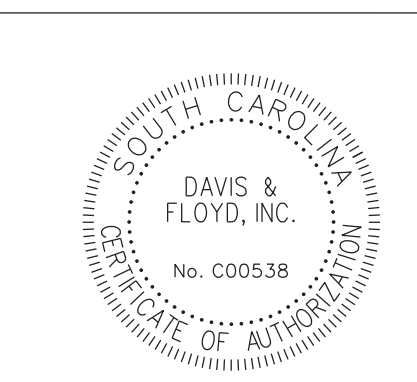
POST QUANTITY, SIZE & LENGTH FOR INSTALLATIONS HAVING MORE THAN ONE SIGN ARE SHOWN ON THE PLANS.

SIGN NO.	NO. OF POSTS	POST SIZES			SIGN NO.	NO. OF POSTS	POST SIZES			SIGN NO.	NO. OF POSTS	POST SIZES			SIGN NO.	NO. OF POSTS	POST SIZES				
		5' MTG. HT. LBS./FT.	7' MTG. HT. LBS./FT.	LGTH.			5' MTG. HT. LBS./FT.	7' MTG. HT. LBS./FT.	LGTH.			5' MTG. HT. LBS./FT.	7' MTG. HT. LBS./FT.	LGTH.			5' MTG. HT. LBS./FT.	7' MTG. HT. LBS./FT.	LGTH.		
R1-1-24	1	3P	12	3P	14	R11-1-24	1	3P	12	3P	14	W2-1-24	1	3P	12	3P	14	THE FOLLOWING TO BE MOUNTED AT 4' HT.			
R1-1-30	1	3P	12	3P	14	R11-1-30	2	3P	14	3P	16	W2-1-30	1	3P	13	3P	15	D10-1-12-XX	1	2P	10
R1-1-48	2	3P	14	3P	16	R11-1-48	2	3P	12	3P	14	W2-1-36	1	3P	14	3P	16	D10-2-12-XX	1	2P	11
R1-2-36	1	3P	12	3P	14	R11-2-36	2	3P	12	3P	14	W2-2-24	1	3P	12	3P	14	D10-3-12-XX	1	2P	12
R1-2-48	2	3P	13	3P	15	R11-2-48	2	3P	12	3P	14	W2-3-30	1	3P	13	3P	15	THE FOLLOWING TO BE MOUNTED AT 6' HT.			
R2-1-24	1	3P	12	3P	14	R11-7-30	1	3P	12	3P	14	W3-1-36	1	3P	14	3P	16	R1-2-60	2	3P	
R2-2-24	1	3P	12	3P	14	R18-1-30	1	3P	13	3P	15	W3-2-36	1	3P	14	3P	16	R4-3-48	2	3P	
R2-2-48	2	3P	15	3P	17							W5-1-36	1	3P	14	3P	16	R4-4-48	2	3P	
R2-2-60	1	3P	12	3P	14							W5-1-36	1	3P	14	3P	16	R11-1-48	2	3P	
R4-2-24	1	3P	12	3P	14							W5-2-36	1	3P	14	3P	16	W15-2-48	2	3P	
R4-3-24	1	3P	12	3P	14	W1-1-30	1	3P	13	3P	15	W3-3-30	1	3P	13	3P	15				
R4-3-36	2	3P	14	3P	16	W1-1-36	1	3P	14	3P	16	W4-1-24	1	3P	12	3P	14				
R4-3-48	2	3P	16	3P	18	W1-2-30	1	3P	13	3P	15	W4-1-30	1	3P	13	3P	15				
R4-4-48	2	3P	14	3P	16	W1-2-36	1	3P	14	3P	16	W4-4-48	2	3P	14	3P	16				
R5-1-30	1	3P	12	3P	14	W1-3-30	1	3P	13	3P	15	W6-1-36	1	3P	13	3P	15				
R5-1-36	2	3P	13	3P	15	W1-3-36	1	3P	14	3P	16										
R5-1a-36	2	3P	12	3P	14	W1-4-30	1	3P	13	3P	15										
R5-10a-30	1	3P	13	3P	15	W1-4-36	1	3P	14	3P	16										
R6-1-36	1	3P	10	3P	12	W1-5-30	1	3P	13	3P	15										
R8-1-36	2	3P	13	3P	15	W1-6-48	2	3P	12	3P	14										
R8-1-42	2	3P	12	3P	14	W1-7-48	2	3P	12	3P	14										

DELIMITER POSTS SHALL BE 3P U-SECTION POSTS 7 1/2' LONG.

NOTE:  
POST LENGTHS SHOWN IN THIS CHART ARE GENERAL AND SHOULD BE USED FOR BID PURPOSES ONLY. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS TO DETERMINE EXACT LENGTHS OF POSTS NEEDED.

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3/15/2018



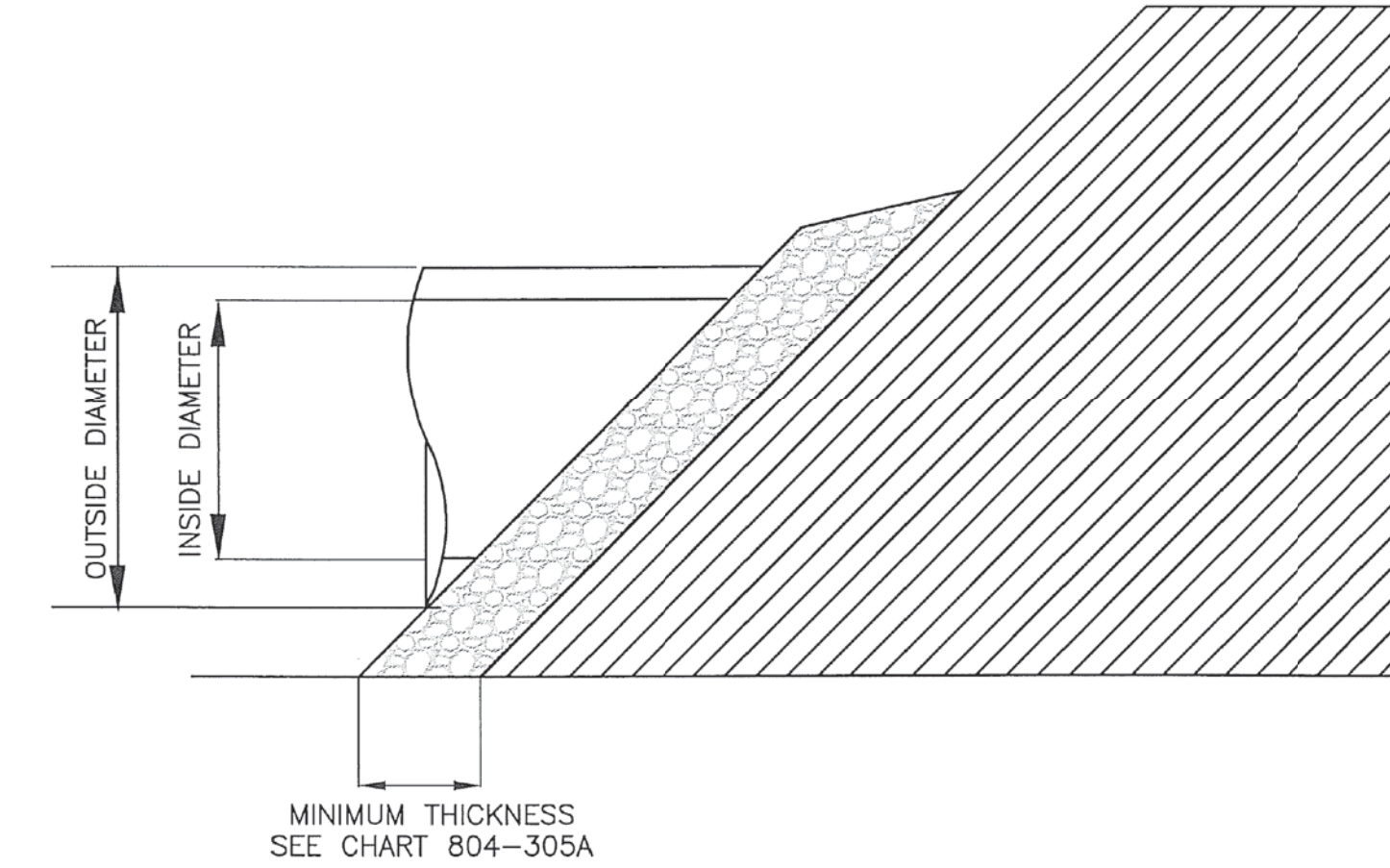
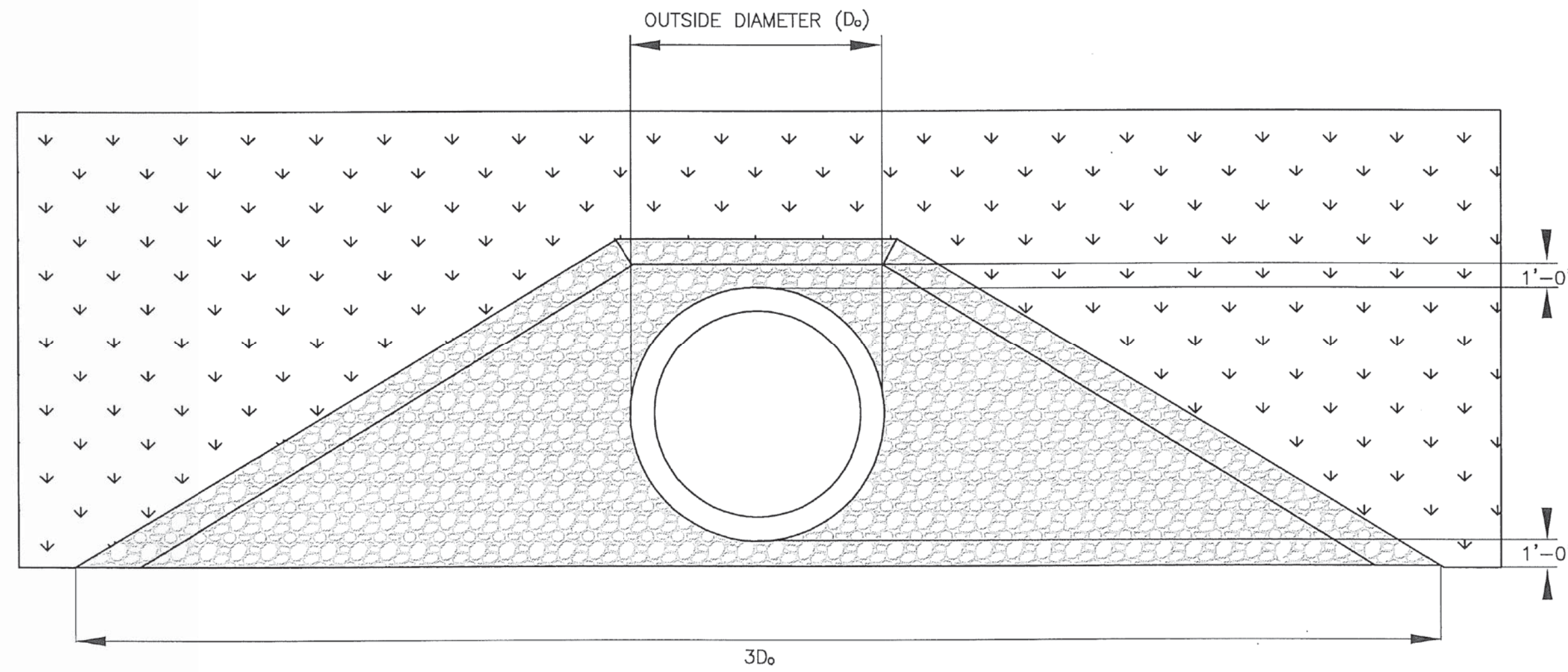
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SINCE 1954

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(843) 554-8602

SIGN MOUNTING DETAIL

N.T.S.

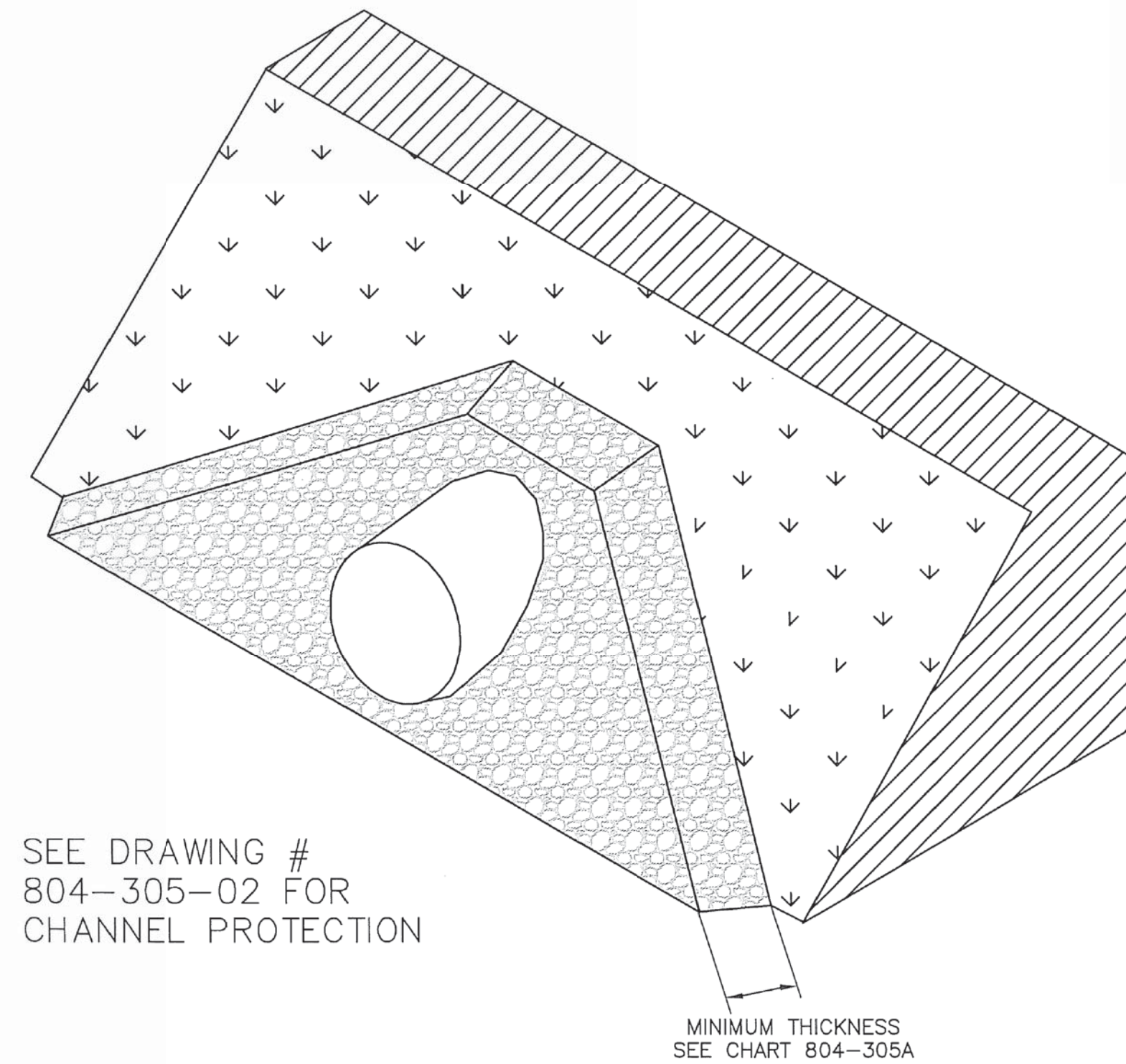




- NOTES:
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  - 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

CHART 804-305A  
RIPRAP PLACEMENT WITH MINIMUM TAILWATER

MINIMUM CLASS	D <sub>50</sub> (FT)	MINIMUM THICKNESS (FT)	OUTSIDE PIPE DIAMETER
A	0.50	1.00	UP TO 24"
B	0.75	1.50	UP TO 84"
C	1.30	2.60	LARGER THAN 84"



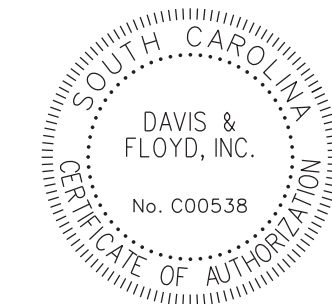
SEE DRAWING #  
804-305-02 FOR  
CHANNEL PROTECTION

NOTES:

- 1) DESIGN OUTLET PROTECTION IN ACCORDANCE WITH THE SCDOT WATER QUALITY MANUAL.
- 2) OUTLET PROTECTION WILL HAVE A WIDTH THREE TIMES THE OUTSIDE DIAMETER OF THE OUTLET PIPE AT TOE OF SLOPE.
- 3) ADVANCE OUTLET PROTECTION UP THE SLOPE A MINIMUM OF 1 FOOT ABOVE THE PIPE INVERT.
- 4) THE PAYMENT ITEMS MAY INCLUDE:

2031000	UNCLASSIFIED EXCAVATION	CY
8151101	TRM TYPE 1	MSY
8151102	TRM TYPE 2	MSY
8151103	TRM TYPE 3	MSY
8151104	TRM TYPE 4	MSY
8041015	RIPRAP CLASS A	CY
8041025	RIPRAP CLASS B	CY
8041035	RIPRAP CLASS C	CY
80482XX	CLASS 2 GEOTEXTILE	SY

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3/15/2018



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PIPE RIPRAP DETAIL

N.T.S.

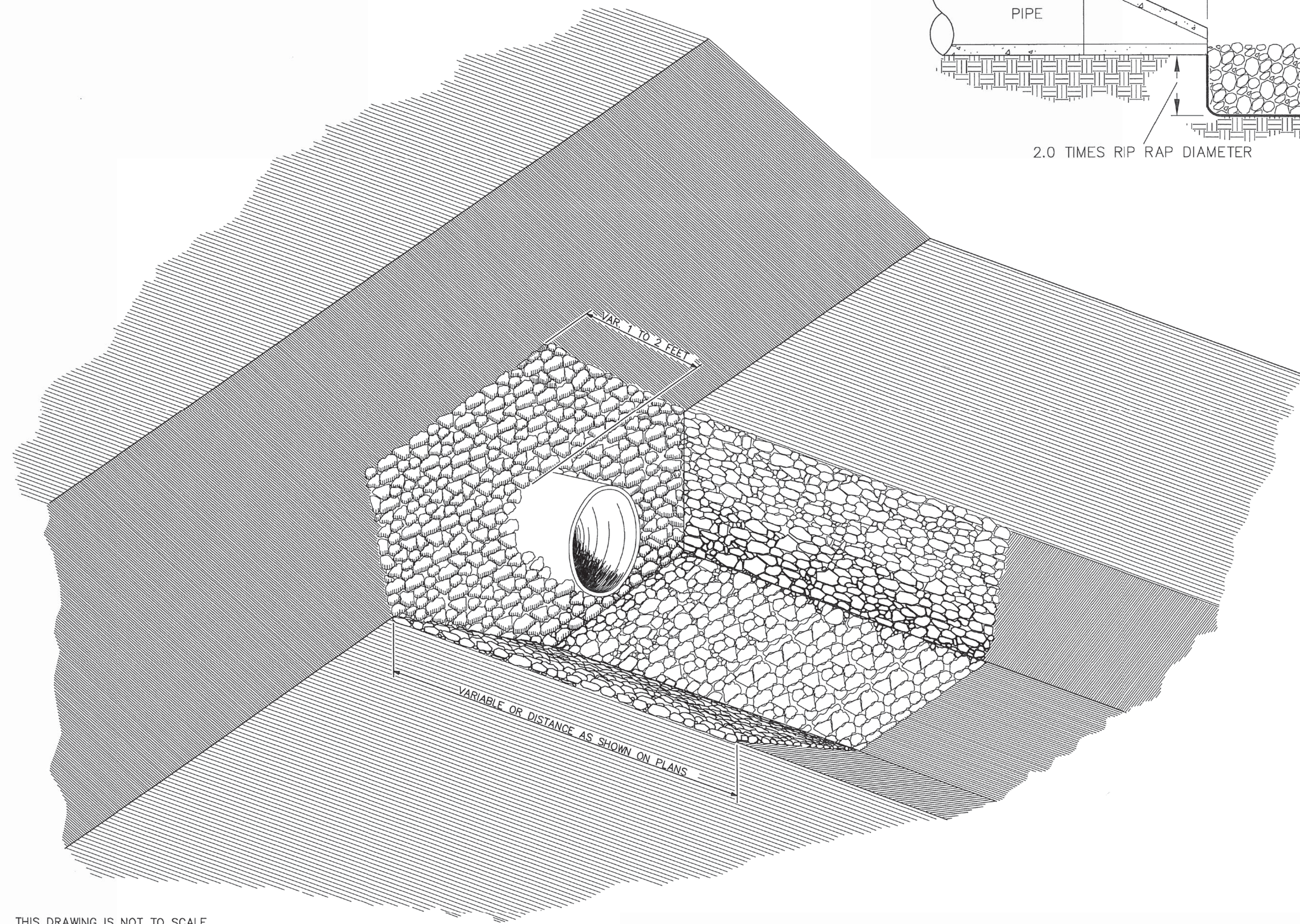
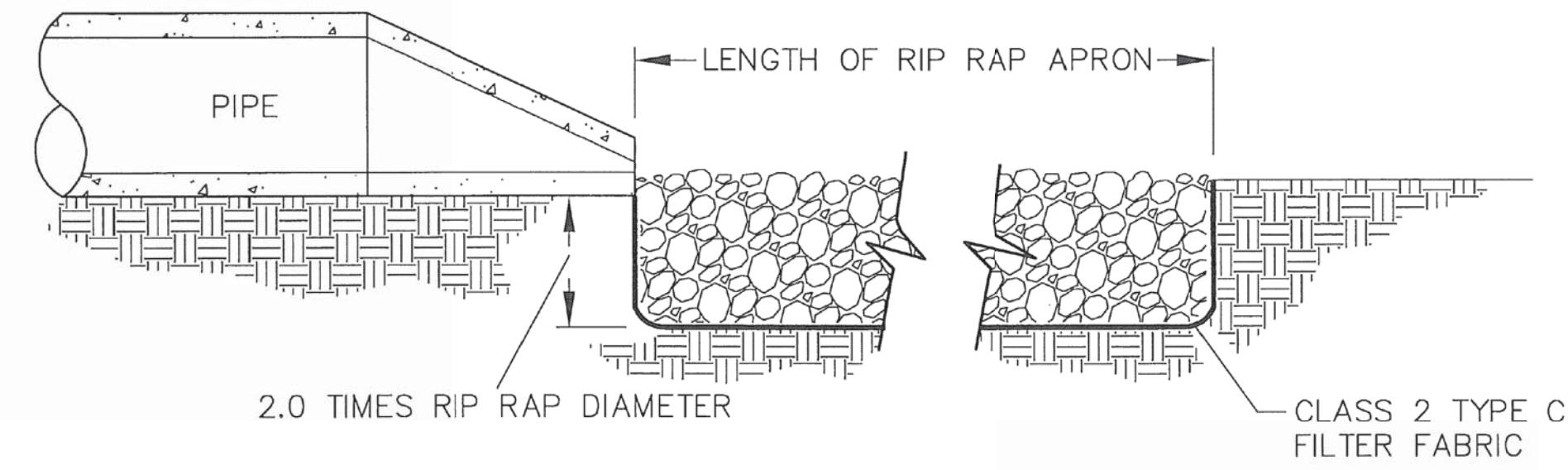
- NOTES:
1. GEOTEXTILE FABRIC TO BE USED UNDER RIPRAP.
  2. SEE STANDARD DRAWINGS SECTION 719-600-00 FOR ADDITIONAL PIPE END TREATMENT OPTIONS.
  3. THE PAY ITEMS SHALL BE:  
 RIPRAP CLASS 2  
 GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP CLASS 2 TYPE C

TON  
S.Y.

- NOTES:
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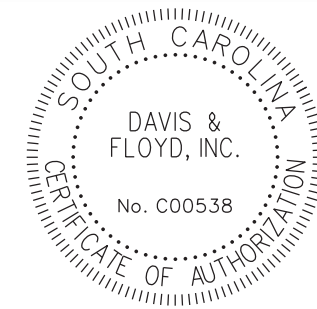
**CHART 804-310A**  
**RIPRAP PLACEMENT WITH MINIMUM TAILWATER**

MINIMUM CLASS	D <sub>90</sub> (FT)	MINIMUM THICKNESS (FT)	PIPE DIAMETER
A	0.50	1.00	UP TO 24"
B	0.75	1.50	UP TO 84"
C	1.30	2.60	LARGER THAN 84"



THIS DRAWING IS NOT TO SCALE

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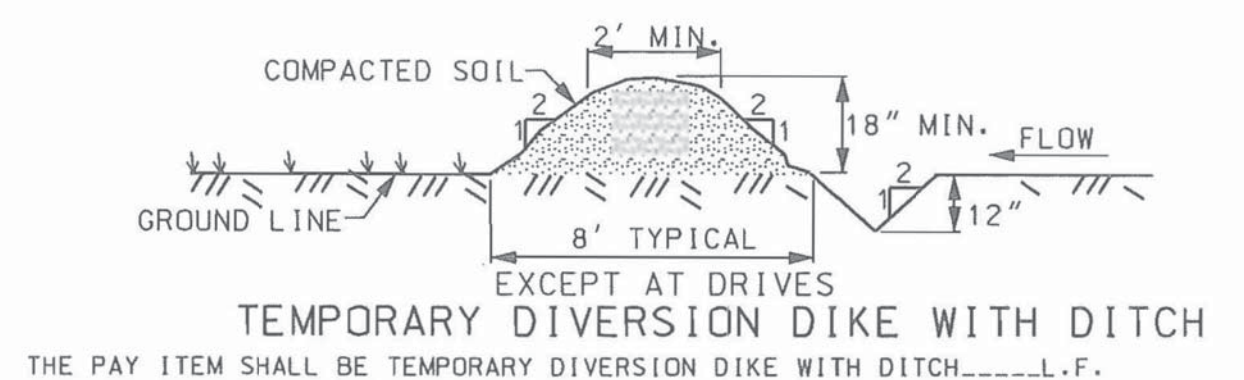


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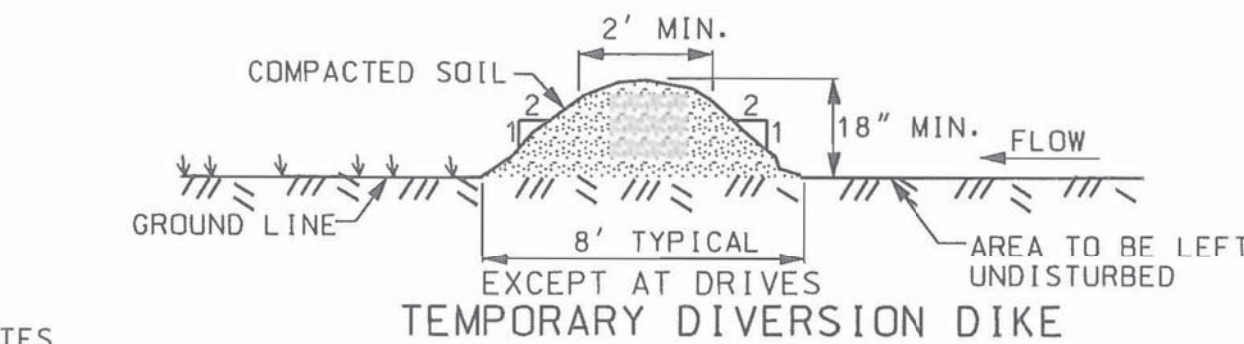
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DITCH RIPRAP DETAIL

N.T.S.



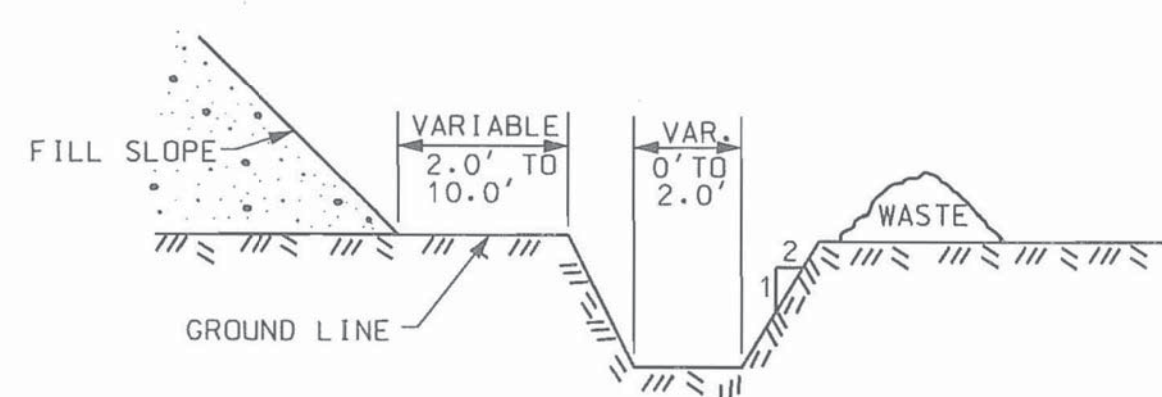
TEMPORARY DIVERSION DIKE WITH DITCH  
THE PAY ITEM SHALL BE TEMPORARY DIVERSION DIKE WITH DITCH.....L.F.



TEMPORARY DIVERSION DIKE  
EXCEPT AT DRIVES  
AREA TO BE LEFT UNDISTURBED  
THE PAY ITEM SHALL BE: TEMPORARY DIVERSION DIKE.....L.F.

NOTES

1. THIS ITEM IS FOR DIVERTING CLEAN WATER AROUND A CONSTRUCTION AREA.
2. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER OBJECTIONABLE MATERIAL.
3. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DIMENSIONS SHOWN.
4. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DIKE. (AS APPLICABLE).
5. PAYMENT FOR TEMPORARY DIVERSION DIKE INCLUDES ALL MATERIALS IN PLACE, REMOVAL AND DISPOSAL OF MATERIALS AND RESHAPING DIKE TO DRAIN. SEEDING TO BE PAID FOR SEPARATELY.
6. THE PAY ITEM SHALL BE: TEMPORARY DIVERSION DIKE.....L.F.

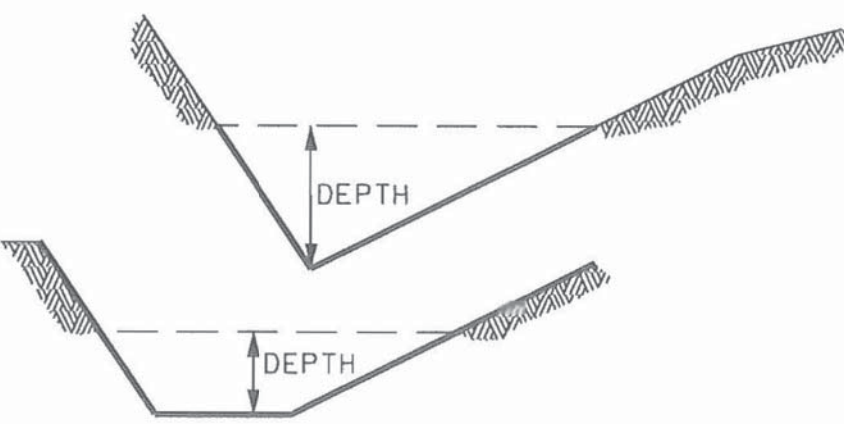


TEMPORARY SILT DITCH

NOTES

1. THIS ITEM IS TO MOVE SEDIMENT LADEN WATER FROM A CONSTRUCTION SITE TO A SEDIMENT CONTROL STRUCTURE.
2. SEED DITCH AND WASTE AREA WITH TEMPORARY SEEDING IMMEDIATELY AFTER CONSTRUCTION.
3. IMMEDIATELY AFTER CONSTRUCTION ESTABLISH VEGETATION, PLACING TEMPORARY EROSION CONTROL BLANKET ON THE DITCH (AS APPLICABLE).
4. THE PAY ITEM SHALL BE: SILT DITCHES.....C.Y.

ROLLED EROSION CONTROL PRODUCT



NOTES

1. THE DEPTH OF THE EROSION CONTROL PRODUCTS ARE TO BE DETERMINED BY DESIGN AND PLACED ON PLAN SHEETS.
2. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. COST OF INSTALLATION AND MATERIALS SHALL BE INCLUDED IN THE PAY ITEM FOR ROLLED EROSION CONTROL PRODUCT.
4. PAY ITEMS:  
TEMPORARY EROSION CONTROL BLANKET .....SY  
PERMANENT TURF REINFORCEMENT MAT.....SY

THIS DRAWING IS NOT TO SCALE

SILT FENCE

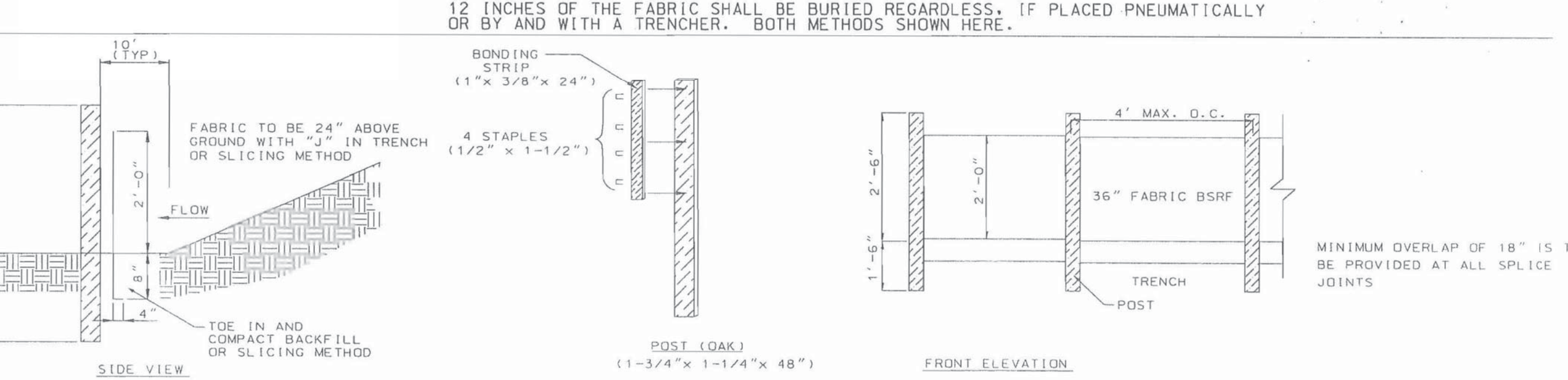
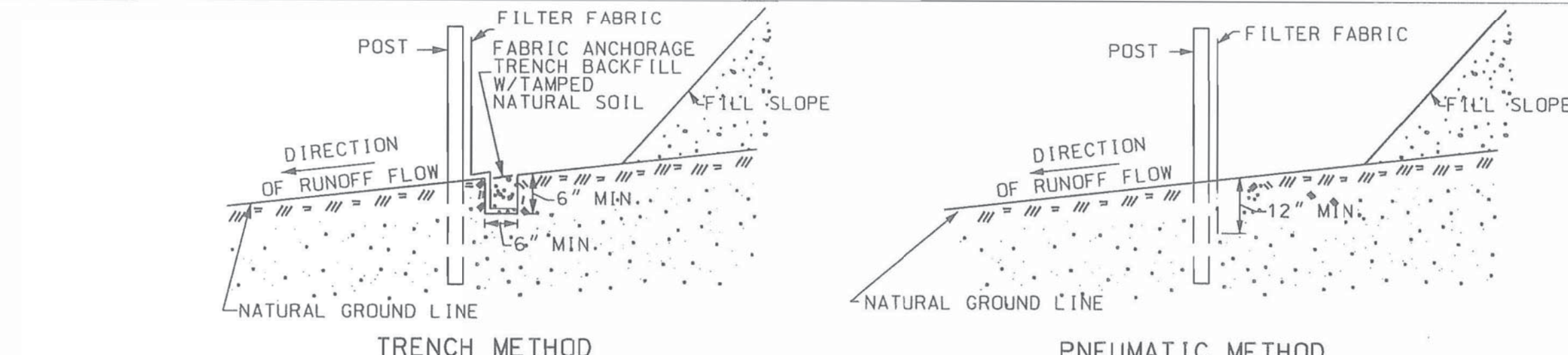
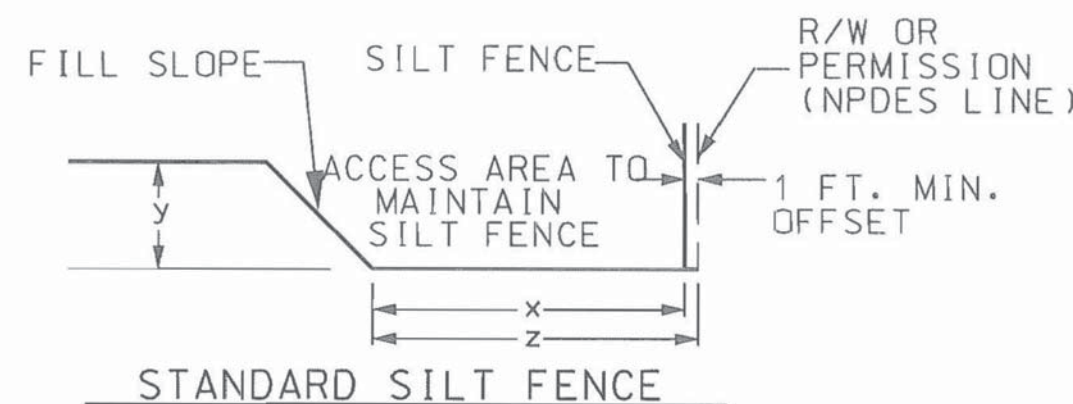
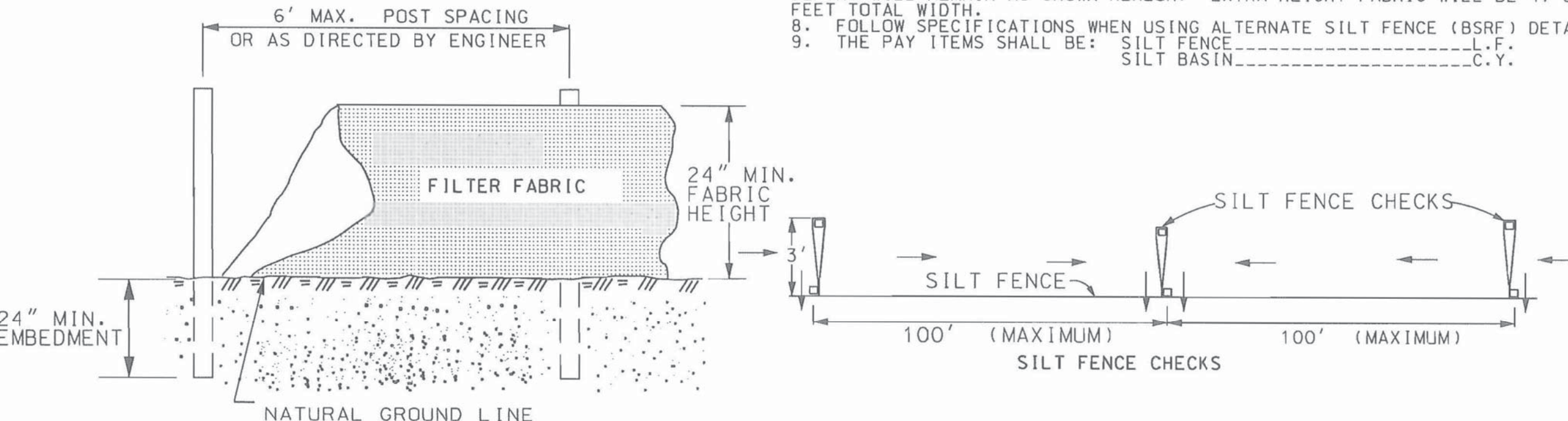
HEIGHT OF FILL (y) IN FEET	FILL SLOPE	MINIMUM SILT FENCE OFFSET FROM TOE OF SLOPE (x) IN FEET	MINIMUM RIGHT OF WAY OFFSET FROM TOE OF SLOPE (NPDES LINE) (z) IN FEET	CHECK LENGTH IN FEET**
<6	2:1	2	3	2
	4:1			
	6:1			
6-10	2:1	12*	13*	5
	4:1	3	4	3
	6:1			
>10	2:1	12*	13*	5
	4:1	4	5	4
	6:1			

\*THESE MINIMUM OFFSETS MAY BE REDUCED WHEN CURB AND GUTTER OR SOME OTHER FEATURE REDUCES THE FLOW OF WATER DOWN THE SLOPE. THE SMALL OFFSETS OF EACH GROUP OF HEIGHT OF FILL CANNOT BE REDUCED.

\*\*SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

NOTES

1. SILT FENCE CHECKS MUST BE LOCATED EVERY 100 FT. MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
2. USE POSTS CONFORMING TO SCOOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET LONG AND INSTALLED TO A MINIMUM DEPTH OF 24 INCHES WITH NO MORE THAN 3 FEET OF THE POST ABOVE GROUND. AT LEAST 1 TO 2 INCHES OF THE POSTS SHALL EXTEND ABOVE THE TOP OF THE FABRIC. POST SPACING WILL BE A MAXIMUM OF 6 FEET ON CENTER.
3. POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE FABRIC TO THE POST. POSTS SHALL ALSO HAVE A SOIL PLATE NEAR THE BOTTOM OF THE POST, EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON-SITE.
4. ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.
5. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.
6. SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO 1/3 THE HEIGHT OF THE FENCE. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND PAID FOR BY THE ITEM OF SILT BASIN.
7. TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEEDED, THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICATION OF HIGHER SILT FENCE. PAY ITEMS AND INSTALLATION METHODS.
8. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING AND BURIED DEPTHS WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4, 5 OR 6 FEET TOTAL WIDTH.
9. FOLLOW SPECIFICATIONS WHEN USING ALTERNATE SILT FENCE (BSRF) DETAILS.
10. THE PAY ITEMS SHALL BE: SILT FENCE.....L.F.  
SILT BASIN.....C.Y.

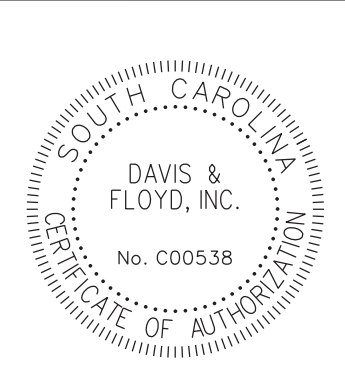


ALTERNATE SILT FENCE - BELTED SILT RETENTION FENCE (BSRF)

NOTES:

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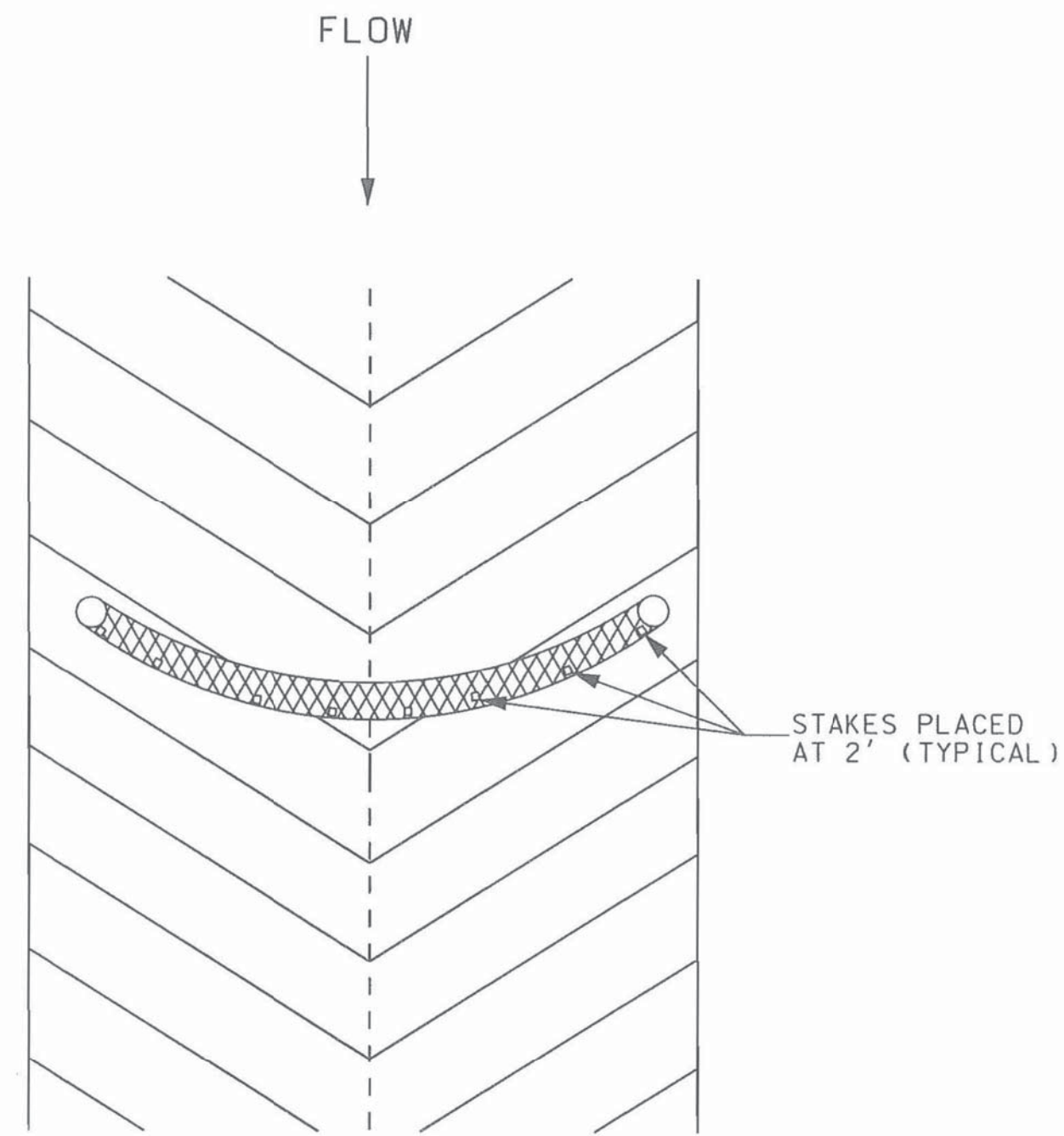


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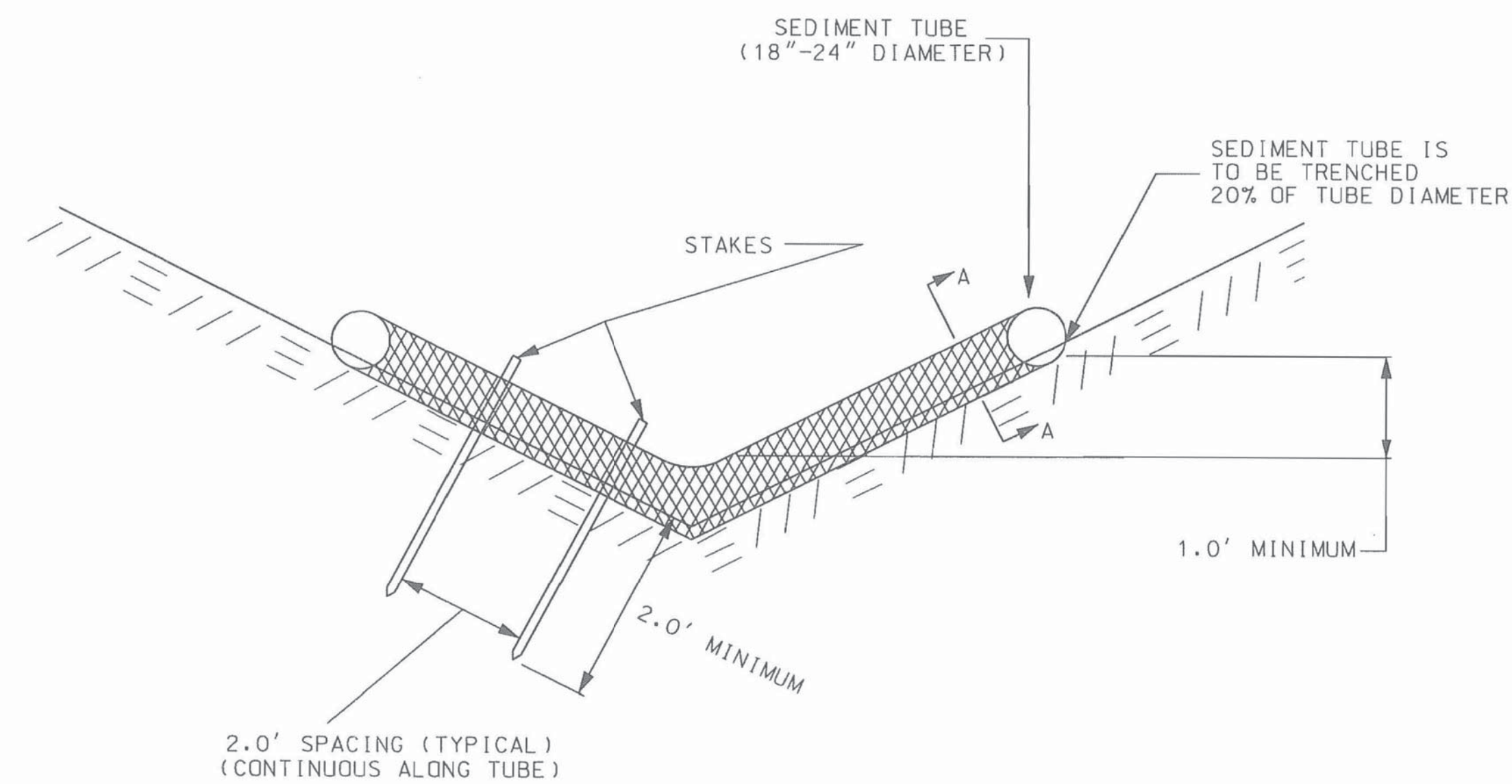
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CHARLESTON, SC 29418  
(843) 554-8602

EROSION CONTROL DETAIL

N.T.S.



TOP VIEW OF DITCH



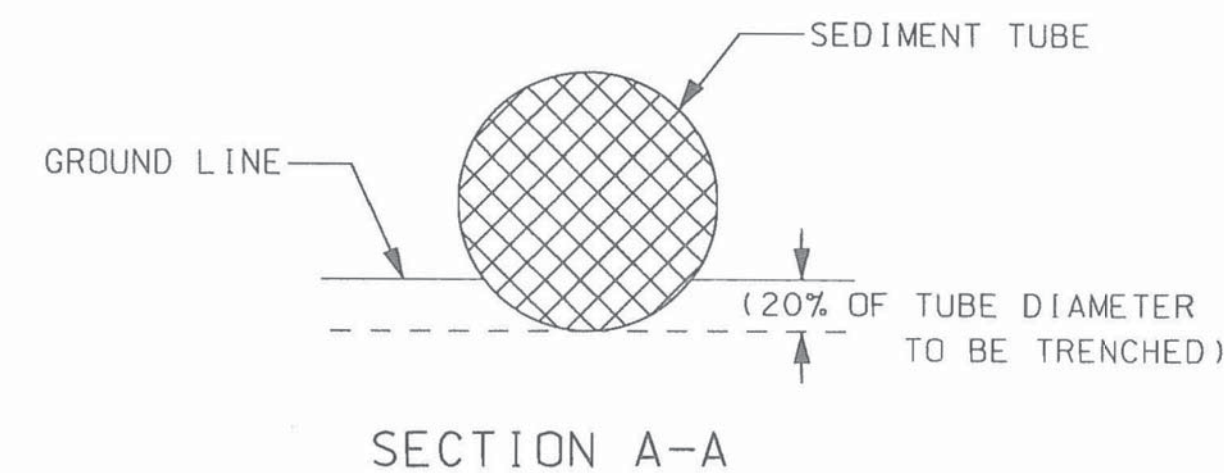
END VIEW OF DITCH

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCODT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCODT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON QPL, AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.
2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20% OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBER SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.
3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.
4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM 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

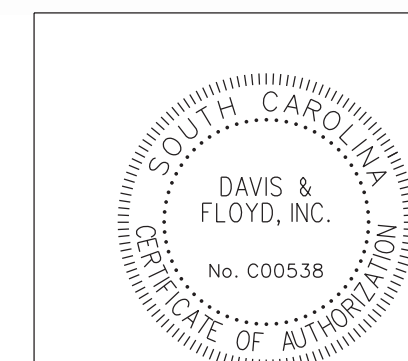
5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF 2" X 2" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS (1.25 INCH DIA) A MINIMUM OF 4' IN LENGTH. USE STEEL POSTS WITHOUT A KICK PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A DEPTH OF 2' OR TO THE MAXIMUM EXTENT PRACTICABLE. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.
6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY, SEDIMENT TUBES CAN BE LAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.
7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.
8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT TUBES. 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.
9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES 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.
10. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.
11. CLEAN OUT OF TUBES WILL BE PAID FOR AS SILT BASIN IN C.Y.
12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.
13. PAY ITEM SHALL BE:  
SEDIMENT TUBE ..... LF



NOTES:

- 1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
- 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

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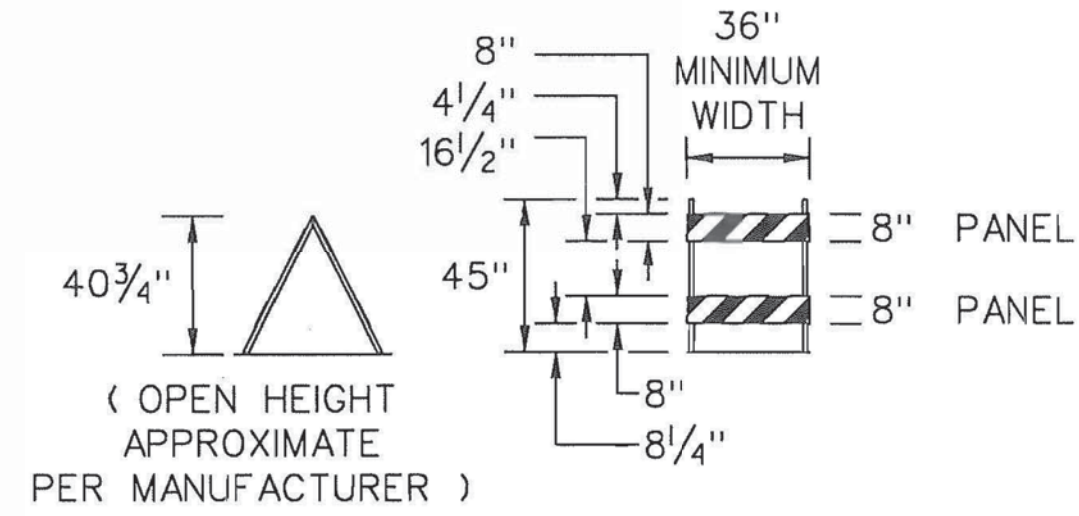
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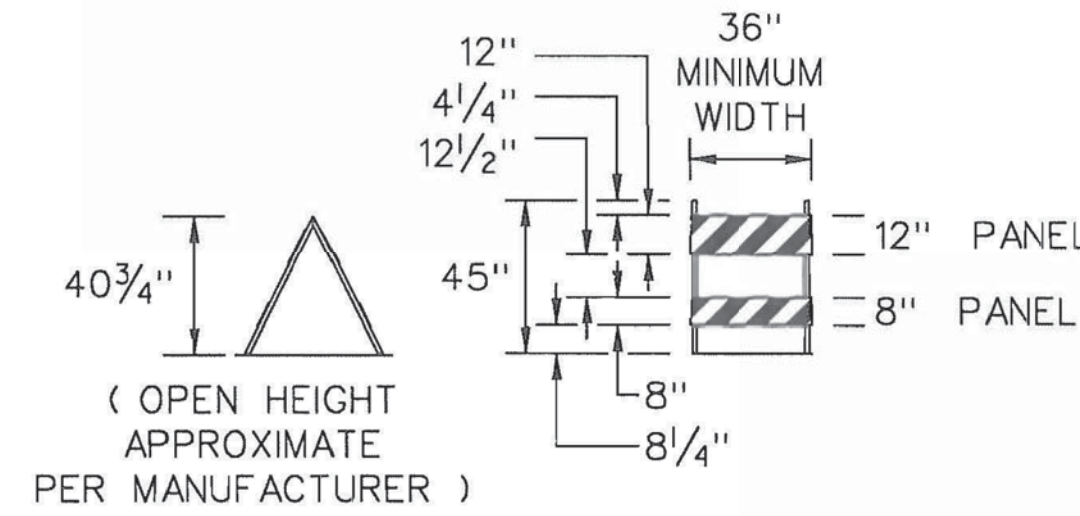
SEDIMENT TUBE DETAIL

N.T.S.

TYPE II BARRICADE  
( 8" / 8" PANELS )



TYPE II BARRICADE  
( 12" / 8" PANELS )



GENERAL NOTES

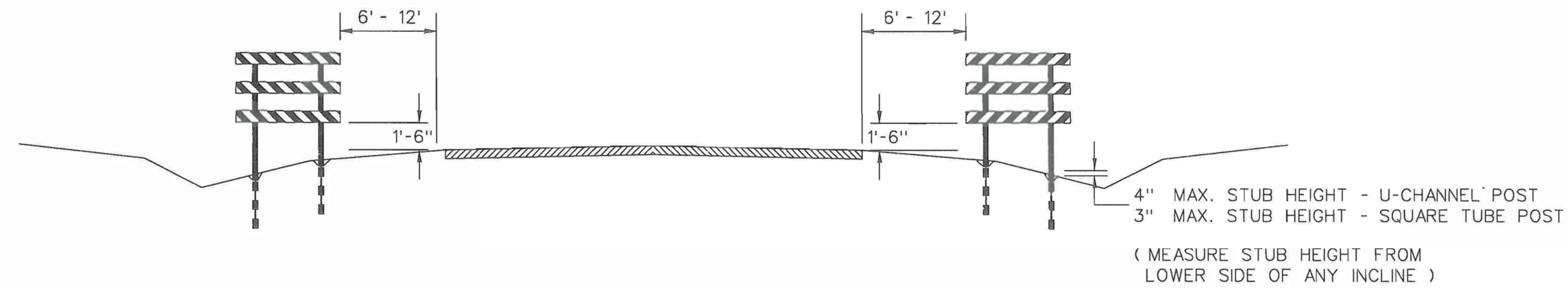
1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: [www.scdot.org](http://www.scdot.org).
2. ONLY THOSE TYPE II BARRICADES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE. TYPE II BARRICADES NOT INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE PROHIBITED. ALL TYPE II BARRICADES UTILIZED FOR CONTRACT WORK SHALL HAVE MINIMUM WIDTH OF 3 FEET. TYPE II BARRICADES WITH WIDTHS LESS THAN 3 FEET ARE UNACCEPTABLE FOR CONTRACT WORK.
3. ONLY THOSE TYPE III BARRICADES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE. TYPE III BARRICADES NOT INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE PROHIBITED. ALL TYPE III BARRICADES WILL BE EITHER GROUND MOUNTED OR MOUNTED ON PORTABLE BASE STANDS.
4. CONSTRUCT ALL GROUND MOUNTED TYPE III BARRICADES OF 1" x 8" PLYWOOD OR PLASTIC PANELS MOUNTED ON APPROVED U-CHANNEL OR SQUARE TUBE POSTS. INSTALL EACH POST WITH AN APPROVED BREAKAWAY SYSTEM INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES".
5. SIMILARITY BETWEEN THE ILLUSTRATIONS SHOWN AND ANY APPROVED DEVICE OR SYSTEM IS COINCIDENTAL AND IS NOT INTENDED AS EITHER A RECOMMENDATION OR AN ENDORSEMENT OF A SPECIFIC DEVICE OR DESIGN.

NOTES:

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- 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.

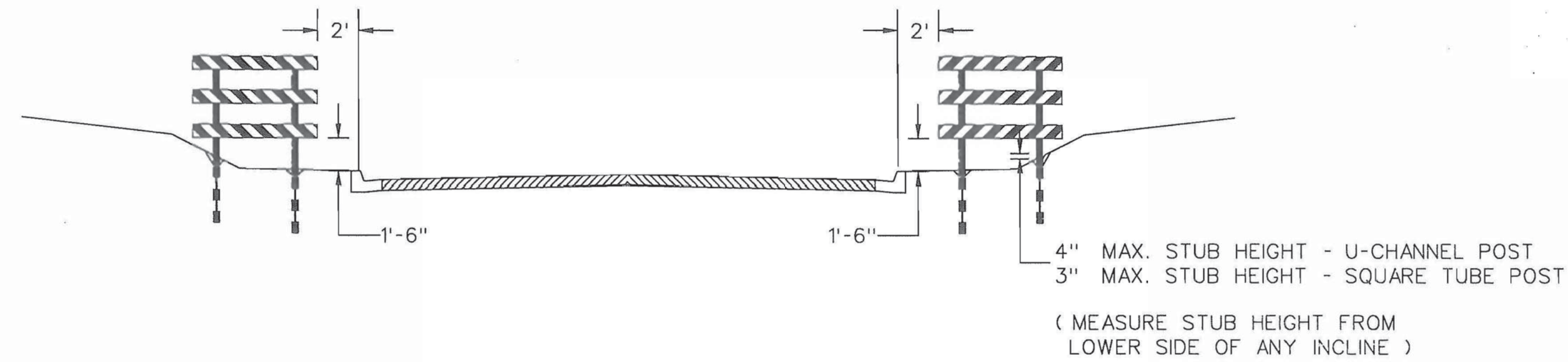
TYPE III BARRICADE

GROUND MOUNTED  
EARTH SHOULDER

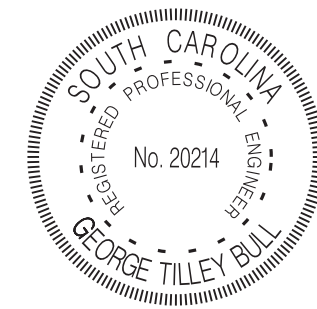
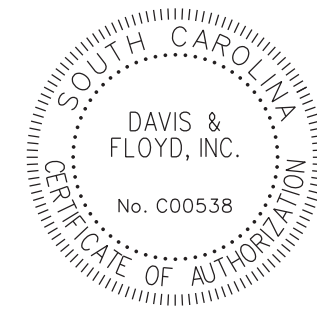


TYPE III BARRICADE

GROUND MOUNTED  
CURB & GUTTER



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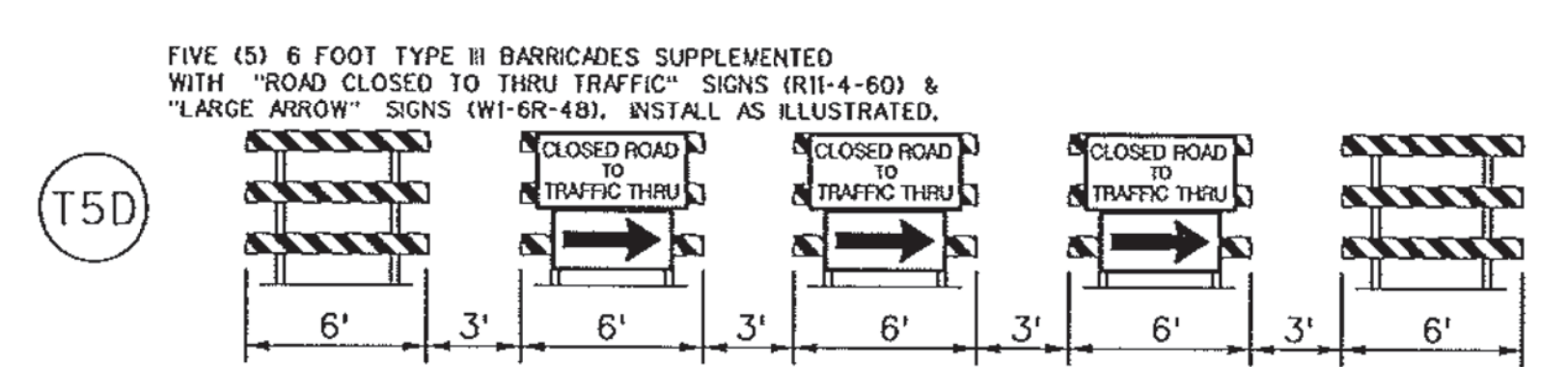
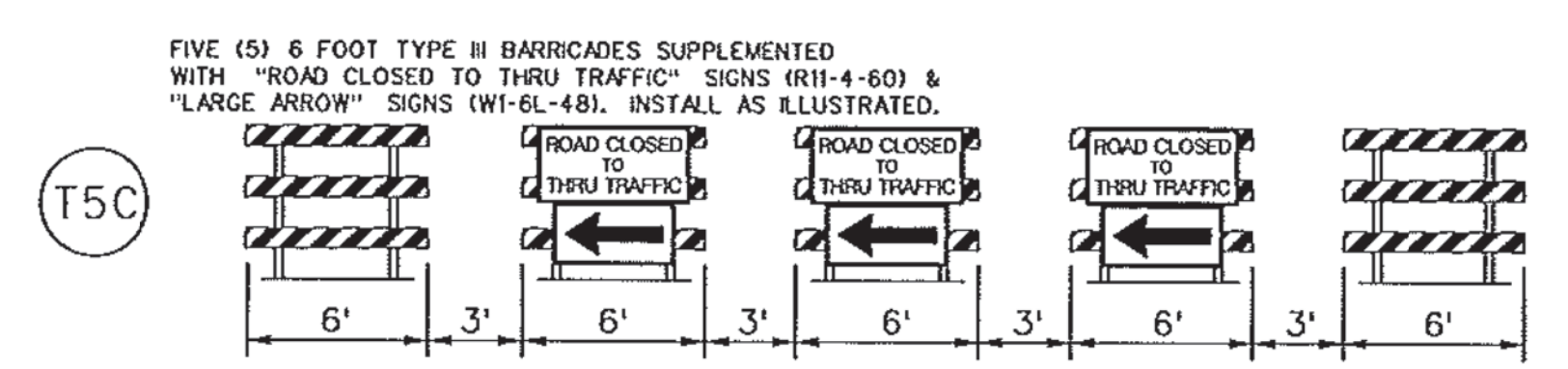
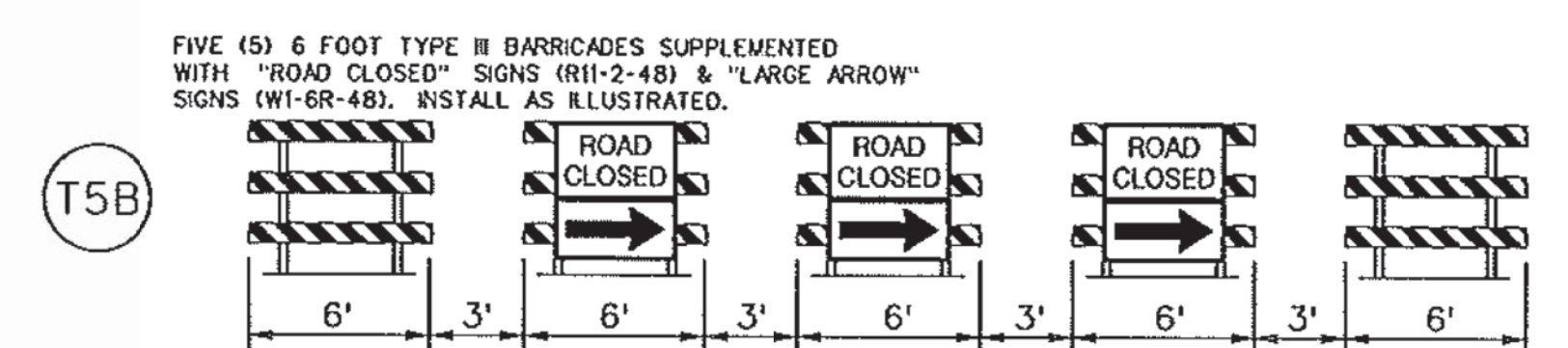
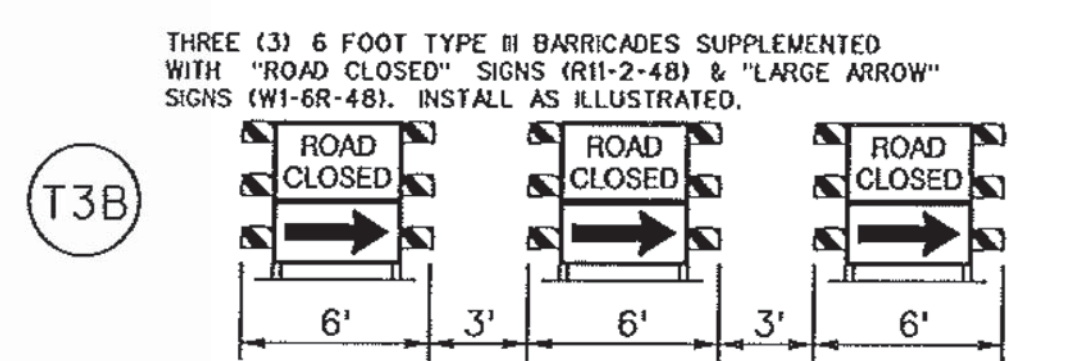
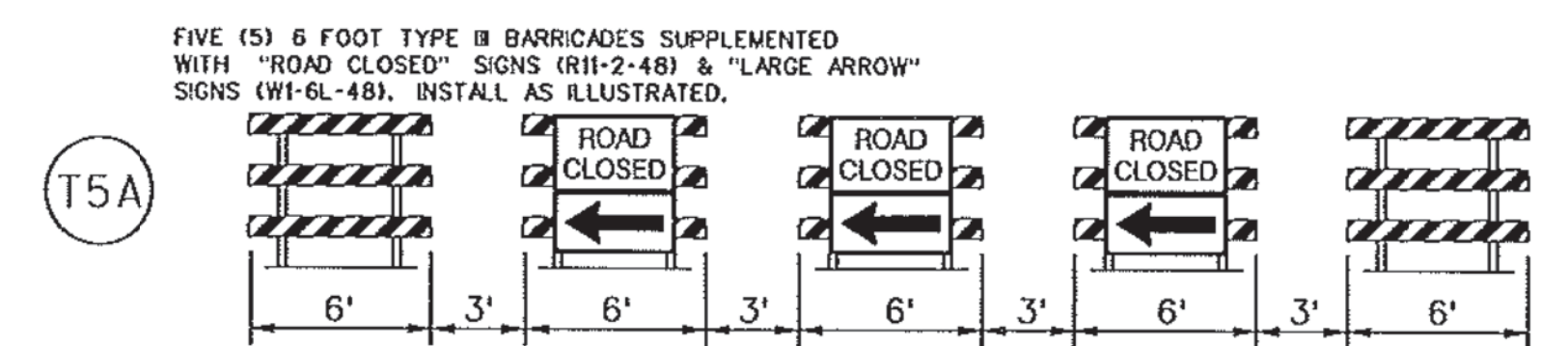
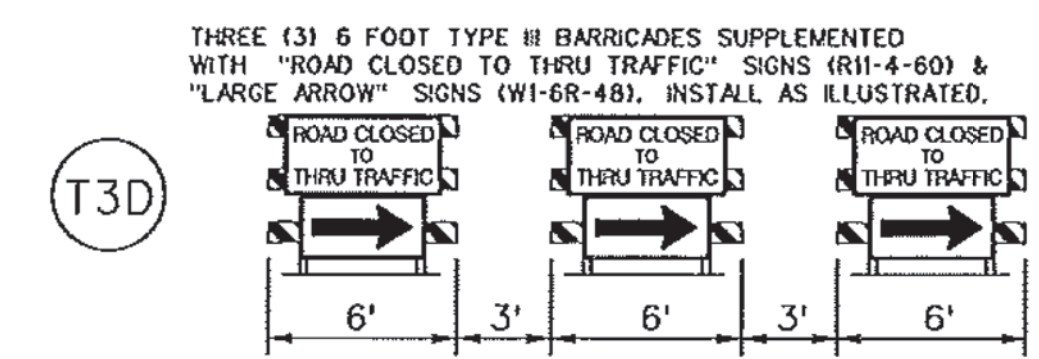
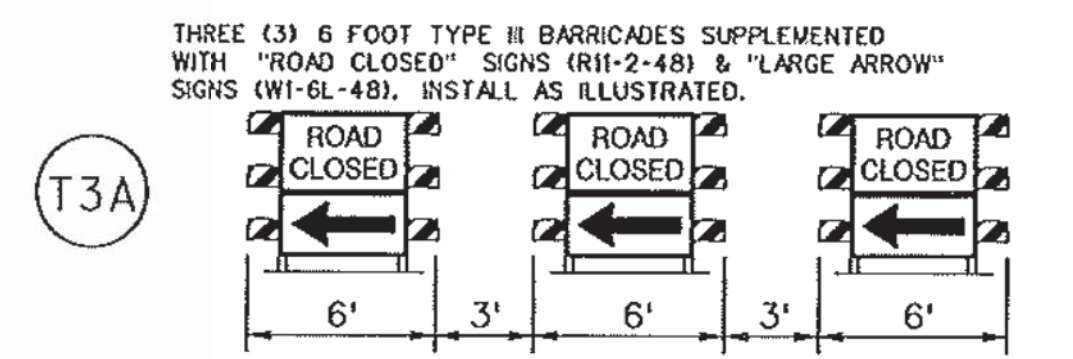
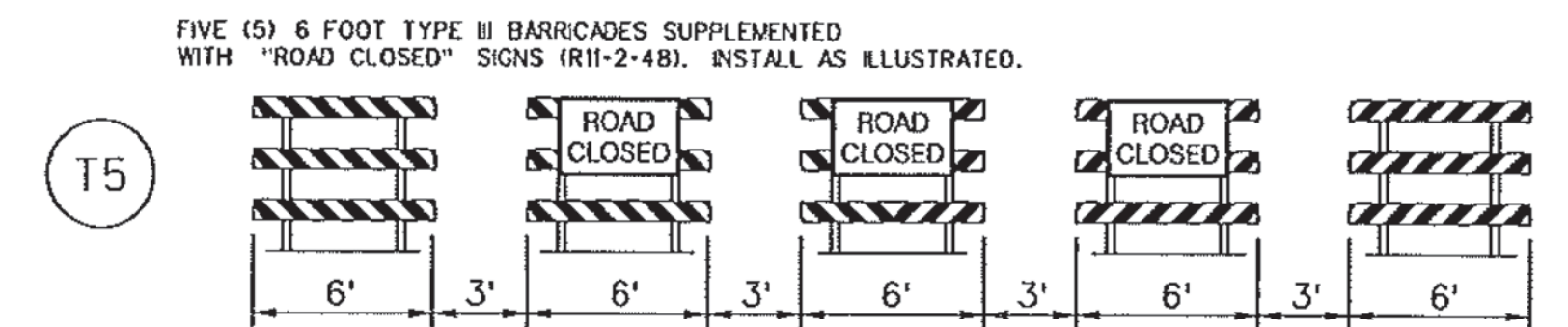
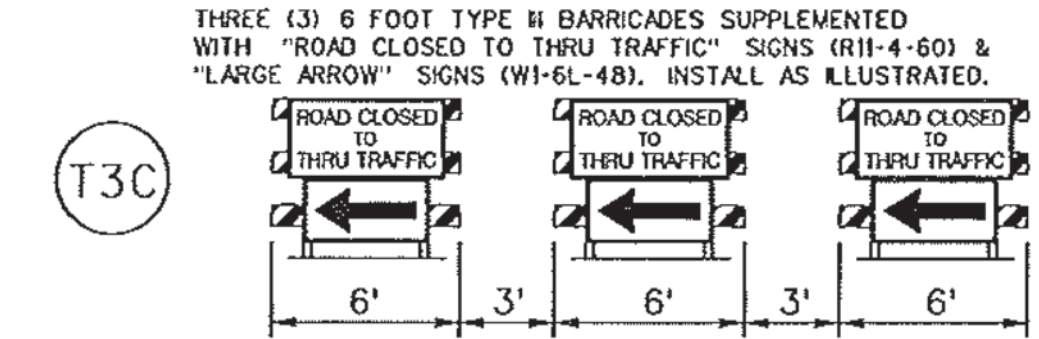
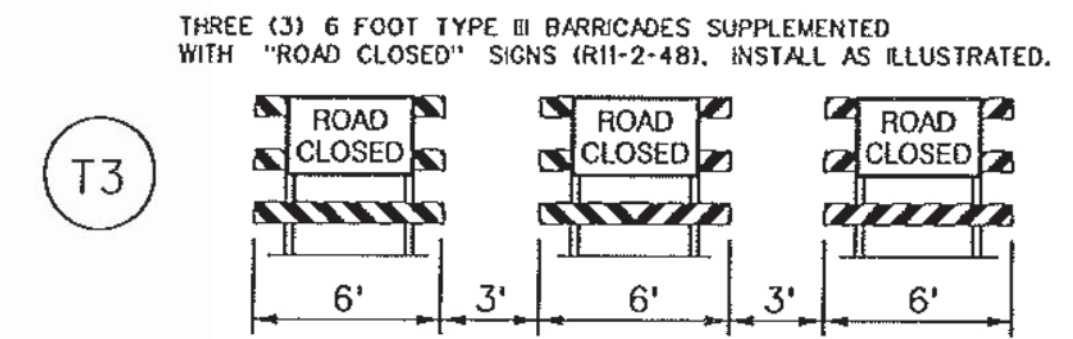
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TYPE III BARRICADE DETAIL

N.T.S.

NOTES:

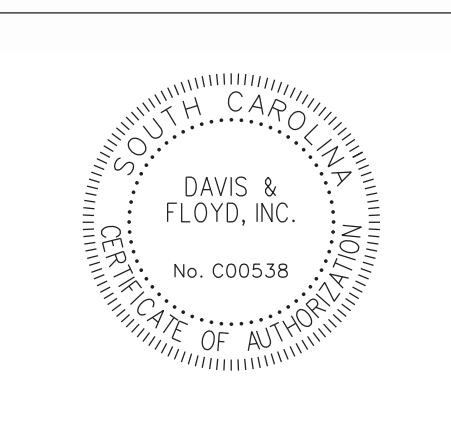
- 1) ANY REFERENCES TO PAYMENT IS SUPERCEDED BY PROJECT SPECIFICATIONS IN THE CONTRACT.
- 2) FIELD ADJUSTMENTS TO IMPLEMENT DETAILS MAY BE REQUIRED AND CAN BE APPROVED BY THE COUNTY RESIDENT CONSTRUCTION MANAGER OR THE PROJECT ENGINEER.



GENERAL NOTES

1. THIS STANDARD DRAWING ILLUSTRATES AND SPECIFIES THE TRAFFIC CONTROL SETUPS FOR THE CLOSURE OF NEW ROADWAY ALIGNMENTS UNDER CONSTRUCTION. INSTALL AND MAINTAIN THESE TRAFFIC CONTROL SETUPS AS ILLUSTRATED AND AS DIRECTED BY THIS STANDARD DRAWING, THE STANDARD SPECIFICATIONS, THE PLANS AND THE ENGINEER.
2. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NCHRP REPORT 350 OR THE MASH TO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: [www.scdot.org](http://www.scdot.org)
3. UTILIZE TYPE II BARRICADES, NO LESS THAN 6 FEET WIDE, SPACED AT INTERVALS NO GREATER THAN 3 FEET BETWEEN THE BARRICADES. INSTALL ALL BARRICADES AND SIGNS STRAIGHT AND LEVEL AND PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
4. REFLECTORIZE ALL TYPE III BARRICADES WITH EITHER TYPE VII, TYPE IX OR TYPE XI PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
5. FABRICATE ALL SUPPLEMENTAL SIGNS UTILIZED FOR ATTACHMENT TO OR MOUNTING ON TYPE III BARRICADES OF EITHER AN APPROVED TYPE VI RETROREFLECTIVE ROLL-UP FABRIC MATERIAL OR AN APPROVED ALUMINUM LAMINATED COMPOSITE MATERIAL. ONLY THOSE APPROVED TYPE VI RETROREFLECTIVE ROLL-UP FABRIC MATERIALS AND APPROVED ALUMINUM LAMINATED COMPOSITE MATERIALS INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE ACCEPTABLE. RIGID SIGNS FABRICATED FROM MATERIALS OTHER THAN THE APPROVED ALUMINUM LAMINATED COMPOSITE MATERIALS SUCH AS AND INCLUDING 0.08 AND 0.10 ALUMINUM SIGN BLANKS ARE PROHIBITED FOR ATTACHMENT TO OR MOUNTING ON TYPE III BARRICADES.
6. REFLECTORIZE RIGID REGULATORY SIGNS WITH AN APPROVED TYPE II OR GREATER PRISMATIC WHITE RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. TYPE II GLASS BEADED RETROREFLECTIVE SHEETING IS NOT APPROVED FOR REFLECTORIZATION OF RIGID REGULATORY SIGNS.
7. REFLECTORIZE RIGID ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A RIGID MULTI-COLORED RIGID ADVANCE WARNING SIGN WITH AN APPROVED TYPE VII, TYPE IX OR TYPE XI FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE RIGID WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A RIGID MULTI-COLORED ADVANCE WARNING SIGN WITH AN APPROVED TYPE II OR GREATER PRISMATIC WHITE RETROREFLECTIVE SHEETING. TYPE II GLASS BEADED WHITE RETROREFLECTIVE SHEETING IS NOT APPROVED FOR REFLECTORIZATION OF THESE SIGNS.
8. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.

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TYPE III BARRICADE DETAIL

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