STATE	COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
S.C.	AIKEN		CENTERWOOD RD	1	17

PLAN AND PROFILE OF PROPOSED AIKEN COUNTY ROAD

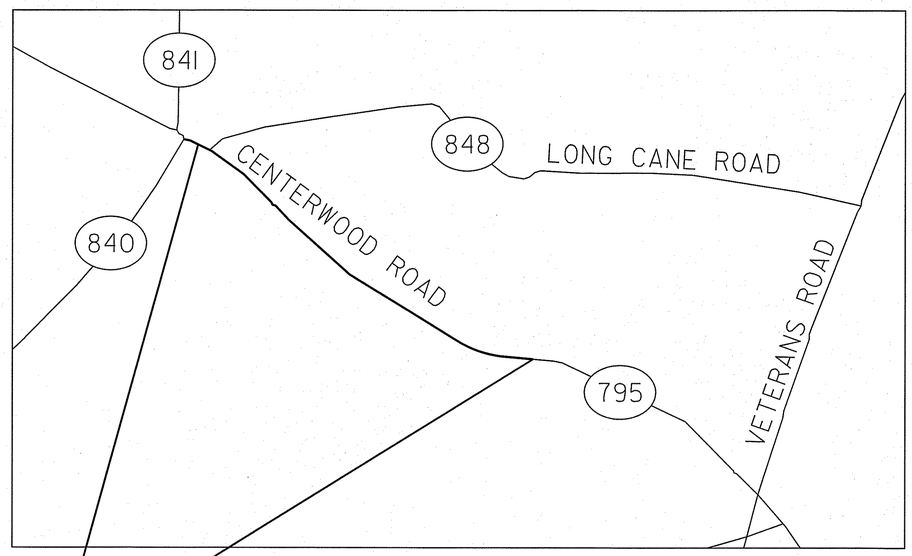
CENTERWOOD ROAD

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
1	TITLE SHEET	1
2-3	DETAIL SHEETS	2
4	TYPICAL SECTION	1
5-8	PLAN/PROFILE SHEETS	4
ECI	EROSION CONTROL DATA SHEET	1
X1-X8	CROSS SECTIONS	8
	TOTAL	17

UTILITY PROVIDER	ADDRESS	TELEPHONE NUMBER	CONTACT INDIVIDUAL
AIKEN ELECTRIC COOPERATIVE	2790 WAGENER ROAD AIKEN, SC 29801	(803) 641-8316	WARREN SMITH
WILLISTON TELEPHONE (TDS TELECOM)	4670 WEST STREET WILLISTON, SC 29853	(800) 788-9140 (803) 266-4998	UNKNOWN

UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DETERMINED FROM BEST AVAILABLE INFORMATION AND SITE SURVEYS. HOWEVER, PRIOR TO BEGINNING ANY EXCAVATION, CALL PALMETTO PROTECTION SERVICE AT 1-888-721-7877 TO LOCATE ALL EXISTING UTILITIES.



SITE LAYOUT
SCALE : 1" = 400'

BEGIN & END CONSTRUCTION
CENTERWOOD ROAD (0.88 MILES)

NPDES PERMIT INFORMATION

NPDES Disturbed
CENTERWOOD ROAD = 2.73 Acres
Calculated from Edge of Existing Dirt Road to Construction Limits

RAILROAD INVOLVEMENT?
YES / (NO)

CONSULTANT - PROJECT ENGINEER

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00397 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

For Right Of Way :
For Construction 11/20/2015
Date

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE

CIVIL ENGINEERING CONSULTING SERVICES, INC.

STATE	COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
S.C.	AIKEN		CENTERWOOD RD	2	

GENERAL NOTES

1. DESCRIPTION

THE CONSTRUCTION PROJECT CONSISTS OF GRADING AND PAVING OF CENTERWOOD ROAD FOR A TOTAL OF 4663 LF.

THERE ARE NO CREEK OR STREAM CROSSINGS OR WETLANDS WITHIN THE CONSTRUCTION LIMITS.

2. OWNER / DEVELOPER / 24 HOUR CONTACT

AIKEN COUNTY, SOUTH CAROLINA — JOE BERRY, P.E. 803-642-1535
1930 UNIVERSITY PARKWAY
AIKEN, SOUTH CAROLINA 29801
PHONE 803-642-1535

3. APPROXIMATE START DATE MAY 15, 2015 END DECEMBER 31, 2015.

4. BEST MANAGEMENT PRACTICES

EROSION CONTROL PROGRAM
VEGETATION AND MULCH SHALL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND DISTURBING SHALL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSIVE ELEMENTS. SILT BARRIERS MUST BE IN PLACE IMMEDIATELY FOLLOWING CLEARING: REGARDLESS OF PLAN REQUIREMENT OR LOT SIZE. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETE.

SEDIMENT CONTROL PLAN
SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY THE INSTALLATION OF SEDIMENT FENCES AND HAY BALES. CHECK DAMS SHALL BE INSTALLED TO PROTECT CHANNELIZED AREAS FROM EROSIVE WATER FLOWS. A TEMPORARY CONSTRUCTION EXIT SHALL BE EMPLOYED AT THE PAVED ROAD TO THE SITE TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC.

MAINTENANCE PROGRAM
EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO PREVENT EROSION OF SOILS DURING ALL PHASES OF CONSTRUCTION AND TO RETAIN SEDIMENT ON THE PROJECT SITE. MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROLS WHERE THEY ARE NEEDED TO PREVENT EROSION AND CONTAIN SEDIMENT/SILT. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR ON A DAILY BASIS AND REPAIRED WHERE NEEDED. THE CONTRACTOR SHALL PERIODICALLY REMOVE THE ACCUMULATED SILT, AS REQUIRED, THROUGHOUT THE LIFE OF THE CONTRACT.

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, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.

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 OFF SITE SEDIMENT. 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 THE PAVED ROADWAY CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

5. DRAINAGE / OFFSITE DRAINAGE:

THE NEW PAVING WILL NOT HAVE SIGNIFICANT ADVERSE IMPACT ON THE DOWNSTREAM OR ADJACENT PROPERTIES INVOLVED WTHIN THE PROJECT SITE.

6. SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

7. THE APPLICANT SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF SUCH HAZARDS AS MUD, DEBRIS, LOOSE STONE AND TRASH, AS MAY BE WASHED OR SPILLED INTO THE TRAVEL WAY AS A RESULT OF PROPOSED WORK.

8. SCDOT IS TO BE NOTIFIED 24 HOURS IN ADVANCE PRIOR TO ANY CONSTRUCTION WITHIN THE STATE RIGHT-OF-WAY.

9. ADEQUATE PROVISIONS SHALL BE MADE FOR THE PROTECTION OF THE HIGHWAY TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE "SOUTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

10. ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO SCDOT "A POLICY FOR ACCOMMODATING UTILITES ON THE HIGHWAY RIGHT-OF-WAY", ARMS MANUAL, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", SCDOT STANDARD DRAWINGS, & STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, ALL CURRENT EDITIONS.

11. ANY FIELD CHANGES, IF NECESSARY, MUST BE APPROVED IN WRITING BEFORE ACTUAL CONSTRUCTION OF PROPOSED CHANGES.

12. APPLICANT IS RESPONSIBLE FOR ANY CHANGES UPSTREAM OR DOWNSTREAM AND HOLDS SCDOT HARMLESS FOR ANY AND ALL DAMAGES.

13. COMPACTION TESTS ON SCDOT APRON IS REQUIRED.

14. SCDOT IS TO BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

15. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

16. CONTRACTOR TO INSTALL SILT FENCE AROUND ALL DRAINAGE EASEMENTS UNTIL PERMENANT STABILIZATION IS ESTABLISHED.

17. CONTRACTOR TO INSTALL SEDIMENT TUBES IN ALL DRAINAGE EASEMENTS UNTIL PERMENANT STABILIZATION IS ESTABLISHED (SEE DETAIL DRAWING "SEDIMENT TUBE DETAIL" IN SPECIFICATIONS).

18. FOLLOWING PLACEMENT OF ROADWAY PAVING, CONTRACTOR TO INSTALL SEDIMENT TUBE INLET PROTECTION AT ALL CATCH BASINS AND DROP INLETS (SEE DETAIL DRAWING "POST PAVING INLET PROTECTION DETAIL" IN SPECIFICATIONS).

CONSTRUCTION SEQUENCE

1. DETERMINE AND MARK LIMITS OF CONSTRUCTION.
2. INSTALL TEMPORARY SILT FENCING AND EROSION CONTROL MEASURES.
3. REMOVE AND STORE TOP SOIL.
4. ROUGH GRADE ROADWAY
5. INSTALL STORM DRAINAGE.
6. BEGIN FINAL GRADING.
7. INSTALL TEMPORARY GRASSING AND SITE STABILIZATION AND MAINTAIN AL EROSION CONTROL MEASURES.
8. PERMANENT GRASS SHALL BE INSTALLED FOR AREAS AT FINAL GRADE AND IN SEASON. FERTILIZE, WATER, AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF GRASS.
9. BEGIN FINAL ROADWAY PAVING.
10. REMOVE EXISTING ASPHALT WERE SPECIFIED IN PLANS.
11. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED:
    A) REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS THE SITE AND.
    B) REMOVE TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREA, AND APPLY APPROPRIATE GRASS.

VEGATATIVE PLANTING NOTES

FERTILIZER SHALL BE APPLIED UNIFORMLY AT A RATE OF 1500 LBS/ACRE TO A DEPTH OF 3" BY DISKING, HARROWING, OR OTHER METHODS APPROVED BY THE ENGINEER.

LIME SHALL BE APPLIED UNIFORMLY AT A RATE OF 1500 LBS/ACRE TO A DEPTH OF 3" BY DISKING, HARROWING, OR OTHER METHODS APPROVED BY THE ENGINEER IMMEDIATELY FOLLOWING OR SIMULTANEOUSLY WITH THE APPLICATION OF FERTILIZER.

SEED SHALL BE UNIFORMLY SOWN OR PLANTED WITHIN 24 HOURS OF THE APPLICATION OF FERTILIZER AND LIME ACCORDING TO THE FOLLOWING SCHEDULE:

DATE	TYPE	RATE
APRIL 15 -- SEPT 15	HULLED COMMON BERMUDA	40 LBS/ACRE
SEPT 15 -- APRIL 15	UNHULLED COMMON BERMUDA AND ABRUZZI RYE GRASS	200 LBS/ACRE

IN AREAS ADJACENT TO PRIVATE RESIDENTIAL PROPERTY, THE CONTRACTOR SHALL MATCH ANY TYPE OF GRASS WHICH MAY BE GROWING OR PLANTED IN THE ADJACENT AREA.

WITHIN 30 DAYS AFTER COMPLETION OF SEEDING, THE CONTRACTOR SHALL APPLY NITRATE OF SODA OR AMMONIUM SULFATE AT A RATE WHICH WILL GIVE NOT LESS THAN 60 LBS OF AVAILABLE NITROGEN PER ACRE. NITROGEN SHALL ONLY BE APPLIED BETWEEN MARCH 15 AND OCTOBER 15.

NO FERTILIZER OR NITROGENOUS MATERIAL SHALL BE APPLIED DURING WINDY WEATHER OR WHEN PLANT GROWTH IS DAMP. NO SEED SHALL BE SOWN OR PLANTED DURING WINDY WEATHER, WHEN THE PREPARED SURFACE IS CRUSTED, OR WHEN THE GROUND IS FROZEN, WET, OR IN AN OTHERWISE UNSUITABLE CONDITION.

ALL SEEDED AREAS SHALL BE MULCHED. THE CONTRACTOR MAY USE BITUMINOUS TREATED MULCH OR MIXED IN PLACE OF MULCH.

SEEDING: THE CONTRACTOR SHALL PRESERVE, PROTECT, WATER, AND RESEED DISTURBED AREAS AS NECESSARY TO KEEP THE GRASSED AREAS IN A SATISFACTORY CONDITION DURING THE WARRANTY PERIOD.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS
Dkl	DIKE, DIVERSION		DK (LABLED)	A COMPACTED SOIL RIDE CONSTRUCTED ABOVE A CUT OR FILL SLOPE TO INTERCEPT STORM RUNOFF. IT MAY BE TEMPORARY OR PERMANENT.
RR	RIP RAP			LOOSE ROCK OR SIMILAR DURABLE MATERIAL INSTALLED ON SLOPES FOR PROTECTION FROM EROSION CAUSED BY WATER TURBULENCE OR HIGH VELOCITIES.
Sd 1	SEDIMENT BARRIER	OR OR	X TYPE	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Drl	DRAIN, SUBSURFACE			UNDERGROUND CONDUIT TO REMOVE EXCESS GROUND WATER.
Dr2	DRAIN SYSTEM STRUCTURE			HEADWALL, JUNCTION BOXES, MANHOLE, SANDTRAP RELEASE WELLS, OR OTHER SPECIAL PURPOSE STRUCTURE INSTALLED AS A SUBSERFACE DRAINAGE SYSTEM.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Dsl	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Dsl or TS	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDING ON DISTURBED AREAS.
Ds2	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds2 or GC	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
Du	DUST CONTROL ON DISTURBED AREAS		Du	CONTROLLING SURFACE AND AIR MOVEMENT DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.

UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

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SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00387 CERTIFICATE OF AUTHORIZATION

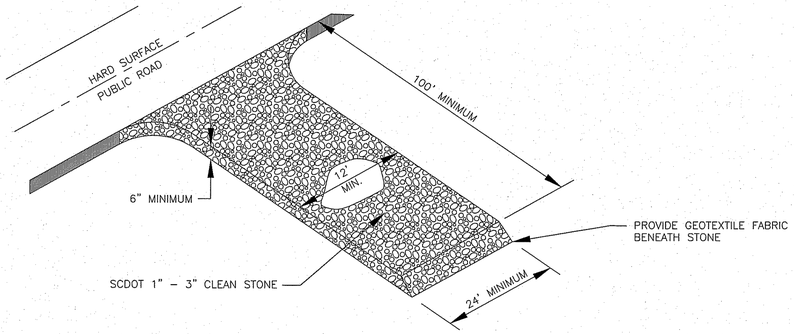
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

AIKEN COUNTY

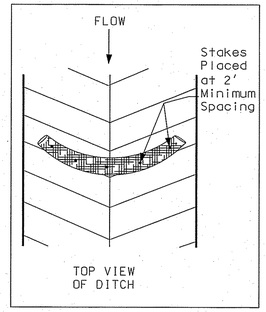
AIKEN COUNTY ROADS
CENTERWOOD ROAD

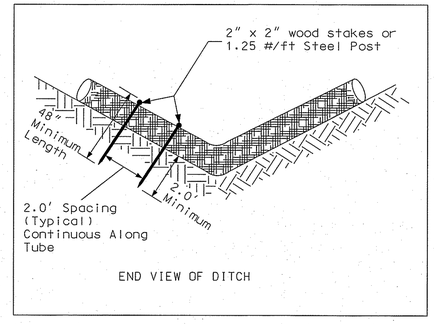
SEDIMENT AND EROSION CONTROL
GENERAL NOTES AND DETAILS SHEET 1

STATE	COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
S.C.	AIKEN		CENTERWOOD RD	3	



GRAVEL CONSTRUCTION EXIT
N.T.S.





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

SEDIMENT TUBE

Sediment tube length selected should minimize the number of sediment tubes needed to span the width of the drainage conveyance.
If the ditch check length (perpendicular to the water flow) is 15 feet, then one 15 foot sediment tube is preferred compared to two overlapping 10 foot sediment tubes.

Sediment tubes for ditch checks should remain in place until fully established vegetation and root systems have completely developed and can survive on their own.

Inspection and Maintenance:
Check dams should be inspected every 7 calendar days and within 24–hours after each storm that produces 1/2–inches or more of rain to ensure continued effectiveness.

Large debris, trash, and leaves should be removed.

If erosion causes the edges to fall to a height equal to or below the height of the center, repairs should be made immediately.

Remove accumulated sediment from the upstream side of the sediment tube when the sediment has reached a height of approximately one–third of the exposed height of the tube (measured at the center).

Accumulated sediment should be removed prior to removing sediment tubes.

Sediment Tube removal should be completed only after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which gravel, stone, sediment tubes, or other materials have been removed.

Description:
Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber or hardwood mulch. Straw, pine needle and leaf mulch–filled sediment tubes are not permitted under this specification.

When and Where to Use It:
Install sediment tubes along contours, in drainage conveyance swales, and around inlets to help reduce the effects of soil erosion by energy dissipation and retain sediment.

Materials:
Sediment tubes for ditch checks and Type A Inlet Structure Filters exhibit the following properties:
Produced by a Manufacturer experienced in sediment tube manufacturing.
Composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, hardwood mulch or a mix of these materials enclosed by a flexible netting material.

Straw, straw fiber, straw bales, pine needles and leaf mulch are not allowed under this specification.

Utilizes outer netting that consists of seamless, high–density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high–density polyethylene non–degradable materials. Diameter ranging from 18–inches to 24–inches.
Curled excelsior wood, or natural coconut rolled erosion control products RECPs) that are rolled up to create a sediment tube are not allowed under this specification.

Installation:
Install over bare soil, mulched areas or erosion control blankets.
Be composed of geotextiles, curled excelsior wood, natural coconut fiber or hardwood mulch enclosed by a flexible netting material. Straw, straw fiber, straw bales, pine needles and leaf mulch are not allowed.

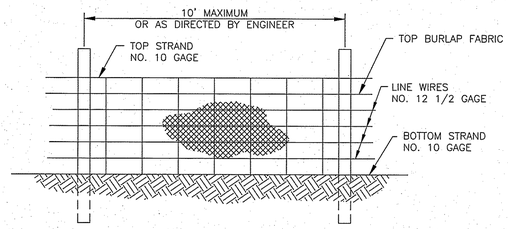
The minimum diameter should be 18 inches.
Sediment tubes should be staked using wooden stakes (2–inch x 2–inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) a minimum of 48–inches in length placed on 2–foot centers.

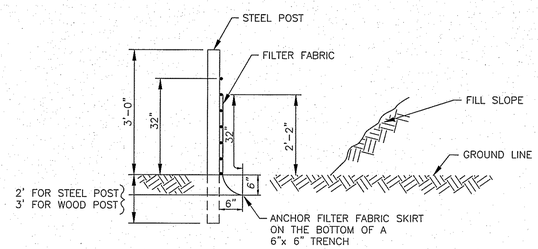
Stakes should be intertwined with the outer mesh on the downstream side and driven in the ground to a minimum depth of 1.5 feet leaving less than 1 foot of stake exposed above the sediment tube. Always refer to the Manufacturer's recommendations for the staking detail,
Install all sediment tubes insuring that no gaps exist between the soil and the bottom of the sediment tube.

The ends of adjacent sediment tubes should be lapped 6–inch to prevent flow and sediment from passing through the field joint.

In no situations should sediment tubes be stacked on top of one another.

Construct a trench that is 20% of the tube diameter to install the tube in. Avoid damage to sediment tubes while installing them. If the sediment tube becomes damaged during installation, a stake should be placed on both sides of the damaged area terminating the tube segment and a new tube segment should be installed.Should be installed in swales or drainage ditches perpendicular to the flow of water. Sediment tubes should continue up the side slopes a minimum of 1 foot above the design flow depth. Sediment tubes should be spaced according to the following table.

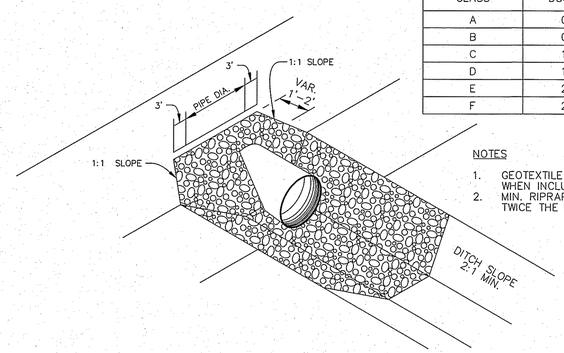




SILT FENCE DETAIL
N.T.S.

NOTES:
1.) FILTER FABRICS SHALL CONFORM TO SPECIAL PROVISIONS CONTAINED IN THE CONTRACT FOR A PROJECT.
2.) WOVEN WIRE FENCE SHALL BE REQUIRED AS A BACKING FOR FILTER FABRIC WITH AN ELONGATION AS DETERMINED BY ASTM D 1682, OF 50% OR GREATER. THE WIRE FENCE SHALL BE A MINIMUM OF 32 INCHES IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12 INCH STAY SPACING.
3.) STEEL POSTS SHALL BE USED. STEEL POSTS SHALL BE A MINIMUM OF 5 FEET LONG, WEIGH A MINIMUM OF 1.3 POUNDS/FOOT, AND HAVE PROJECTIONS FOR FASTENING THE WIRE OR THE FABRIC TO THE POST. STEEL POSTS SHALL ALSO HAVE A METAL PLATE SECURELY ATTACHED SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDITIONAL STABILITY. POSTS SHALL BE INSTALLED TO A DEPTH DIRECTED BY THE ENGINEER, WITH 1 TO 2 INCHES OF THE POST PROTRUDING ABOVE THE TOP OF THE WIRE FENCE OR FABRIC BEING IDEAL, BUT IN ANY CASE, NO MORE THAN 3 FEET OF THE POST SHALL PROTRUDE ABOVE THE GROUND.
4.) WHEN WOVEN WIRE IS NOT REQUIRED, POST SPACING WILL BE REDUCED TO A MAXIMUM OF 6 FEET ON CENTER. FABRIC SHALL BE ATTACHED TO WOOD POST USING #9 WIRE STAPLES 1 1/2 INCHES LONG AND TO STEEL POST USING TIE WIRES. NUMBERS AND LOCATION OF FASTENERS WILL BE AS DIRECTED BY THE ENGINEER IN A MANNER TO PREVENT SAGGING OR TEARING OR THE FABRIC BUT IN ALL CASES, AFFIXED TO THE POST IN NO LESS THAN FOUR PLACES. WHEN WOVEN WIRE IS USED, THE WIRE WILL BE ATTACHED TO THE POST AS DESCRIBED ABOVE AND THE FILTER FABRIC WILL BE TIED TO THE FENCE AS DIRECTED BY THE ENGINEER IN SUCH A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.
5.) SILT FENCE CHECKS ARE TO BE LOCATED EVERY 100' MAXIMUM AND AT LOW POINTS AS DIRECTED BY THE ENGINEER.

HEIGHT OF FILL (FT)	MIN. SILT FENCE OFFSET FROM TOE OF SLOPE (FT)
<5	0
5–10	3
>10	5



CLASS	D50 (FT)	MINIMUM THICKNESS (FT)
A	0.50	1.00
B	0.75	1.50
C	1.30	2.60
D	1.80	3.60
E	2.25	4.50
F	2.85	5.70

NOTES
1. GEOTEXTILE TO BE USED UNDER RIPRAP WHEN INCLUDED IN THE PLANS.
2. MIN. RIPRAP THICKNESS EQUAL TO TWICE THE D50 DIAMETER.

PIPE END RIP RAP DETAIL
N.T.S.

REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	REVISIONS DATE	DESCRIPTION	BY	CHECKED

CIVIL ENGINEERING CONSULTING SERVICES, INC.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 30342 ROBERT LEE DRUMMOND

AIKEN COUNTY

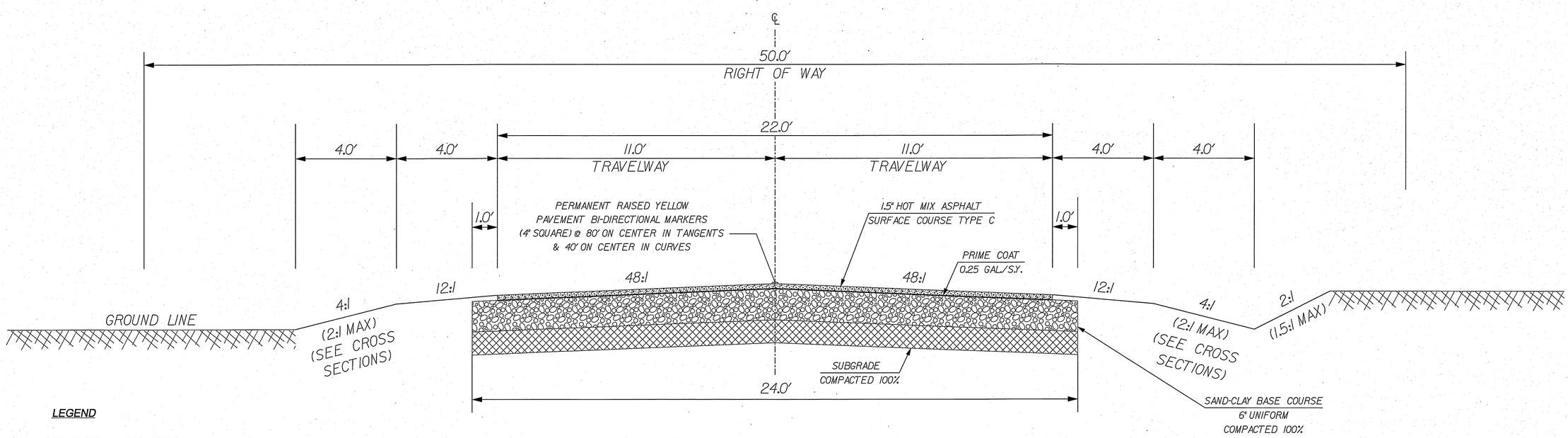
AIKEN COUNTY ROADS
CENTERWOOD ROAD

SEDIMENT AND EROSION CONTROL
GENERAL NOTES AND DETAILS SHEET 2

STATE	COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
S.C.	AIKEN		CENTERWOOD RD	4	

TYPICAL SECTION OF IMPROVEMENT FOR AIKEN COUNTY

1



LEGEND

EXISTING	PROPOSED	DESCRIPTION
—·—·—		PROPERTY LINE
— E —		ELECTRICAL LINE
— — —		EDGE OF DIRT ROAD
———		EDGE OF PAVEMENT
		MAILBOX
		LIGHTPOST
		IRON PIN
		ELECTRICAL TRANSFORMER BOX
		GUY WIRE
		CONTROL POINT
		FIRE HYDRANT
		TELE PED
		WATER METER
		SHRUB
		POWER POLE
		SIGN
		TREE
		UTILITY WITNESS POST
		GAS METER
		SERVICE POLE
— G —		GAS LINE
— OT —		TELEPHONE LINE
—×—		FENCE

USE THIS SECTION ON
CENTERWOOD ROAD STA. 12+37.08 TO STA. 59+00.00
(66.0' RIGHT OF WAY STA. 12+37.08 TO STA. 20+93.61)

NOTE:
SIEVE ANALYSIS REQUIRED EVERY 1000'
FOR SAND CLAY BASE COURSE,
TO BE PERFORMED BY THE CONTRACTOR
SAND-CLAY BASE COURSE TO BE
AQUIRED FROM JOB SITE.

REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED	REVISIONS NO.	DATE	DESCRIPTION	BY	CHECKED

CIVIL ENGINEERING CONSULTING SERVICES, INC.

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING No. C00387 CERTIFICATE OF AUTHORIZATION

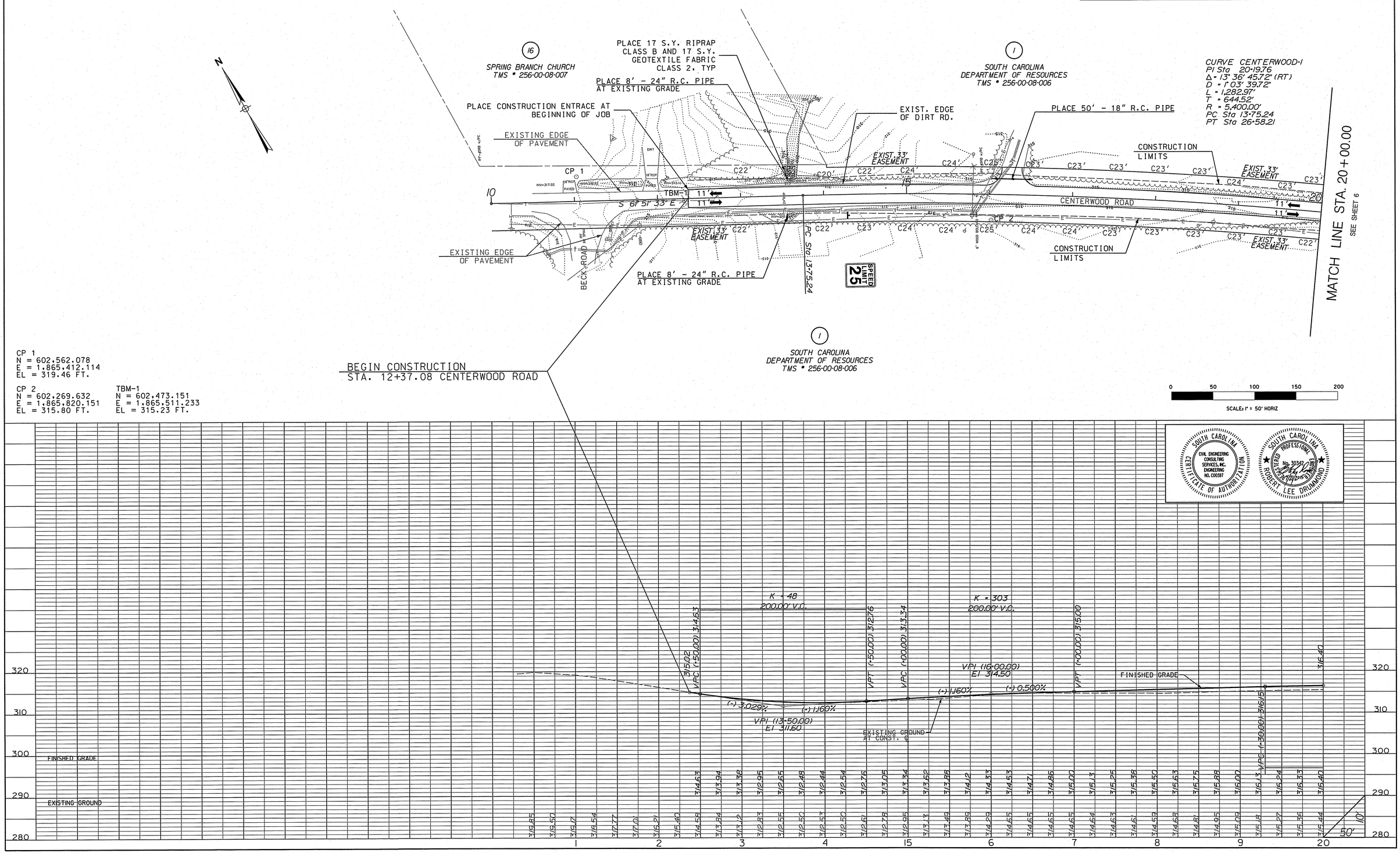
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30842 ROBERT LEE DRUMMOND

AIKEN COUNTY

AIKEN COUNTY ROADS
CENTERWOOD ROAD

TYPICAL SECTION

AIKEN COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
		CENTERWOOD ROAD	5	

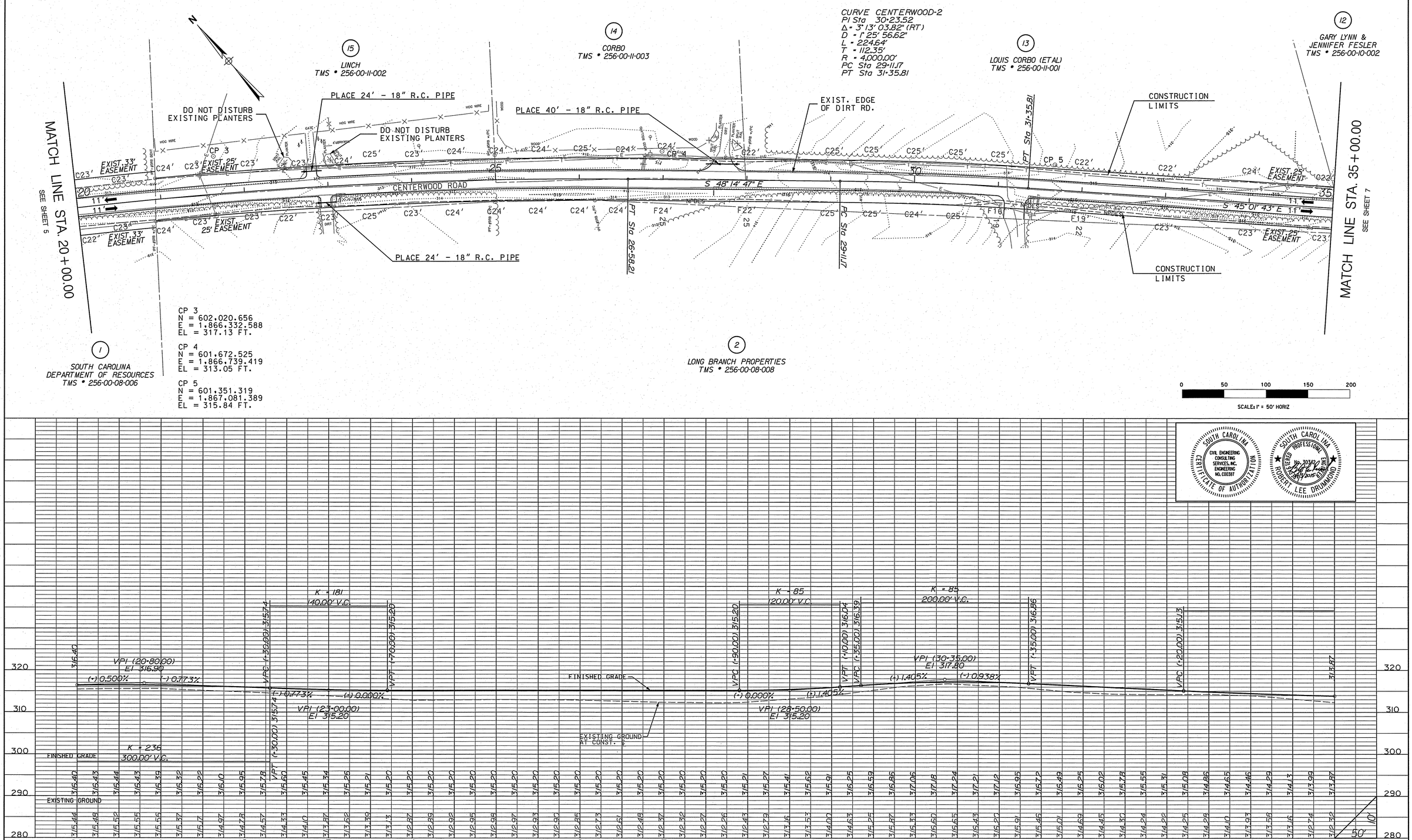


CP 1
N = 602,562.078
E = 1,865,412.114
EL = 319.46 FT.

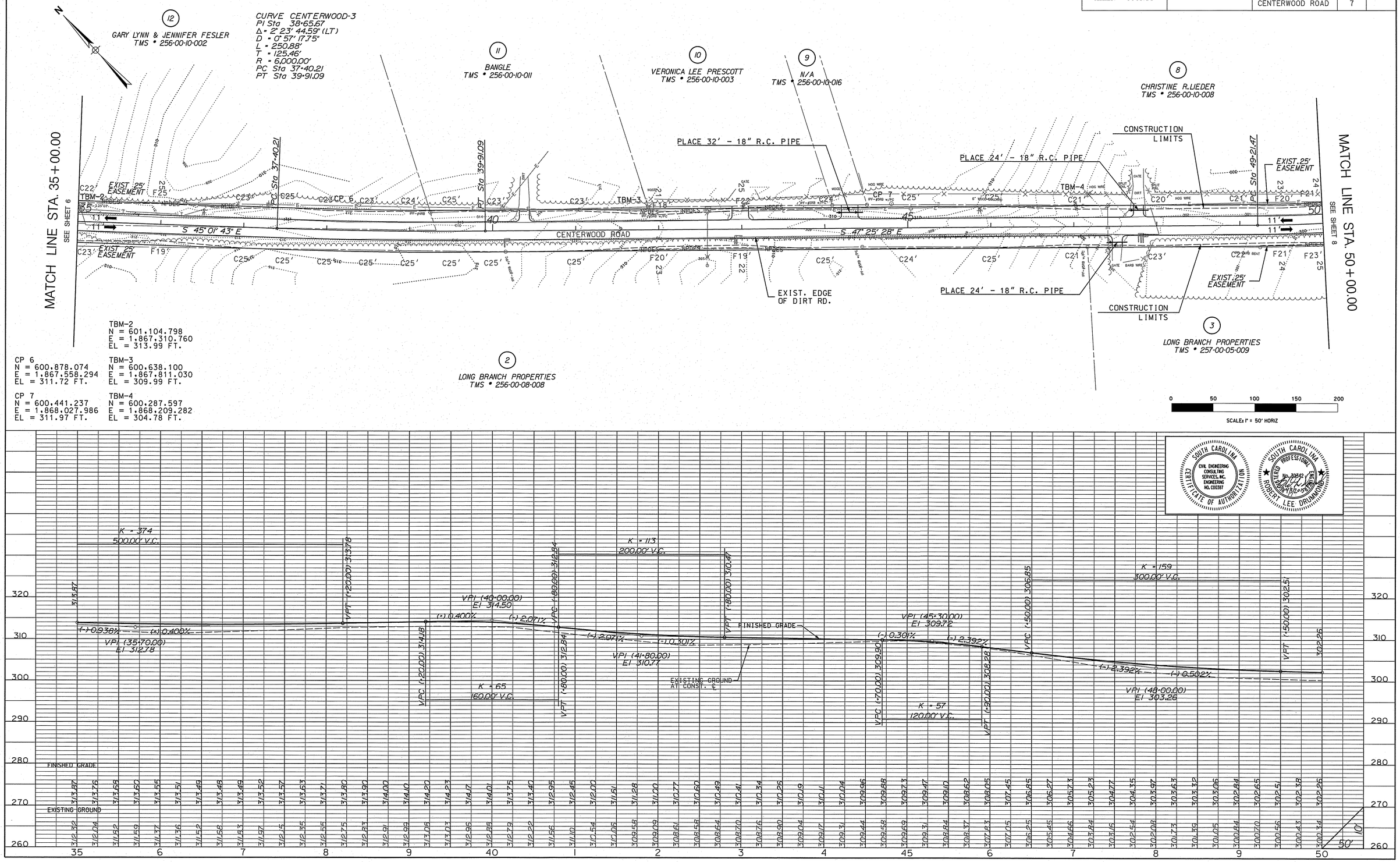
CP 2
N = 602,269.632
E = 1,865,820.151
EL = 315.80 FT.

TBM-1
N = 602,473.151
E = 1,865,511.233
EL = 315.23 FT.

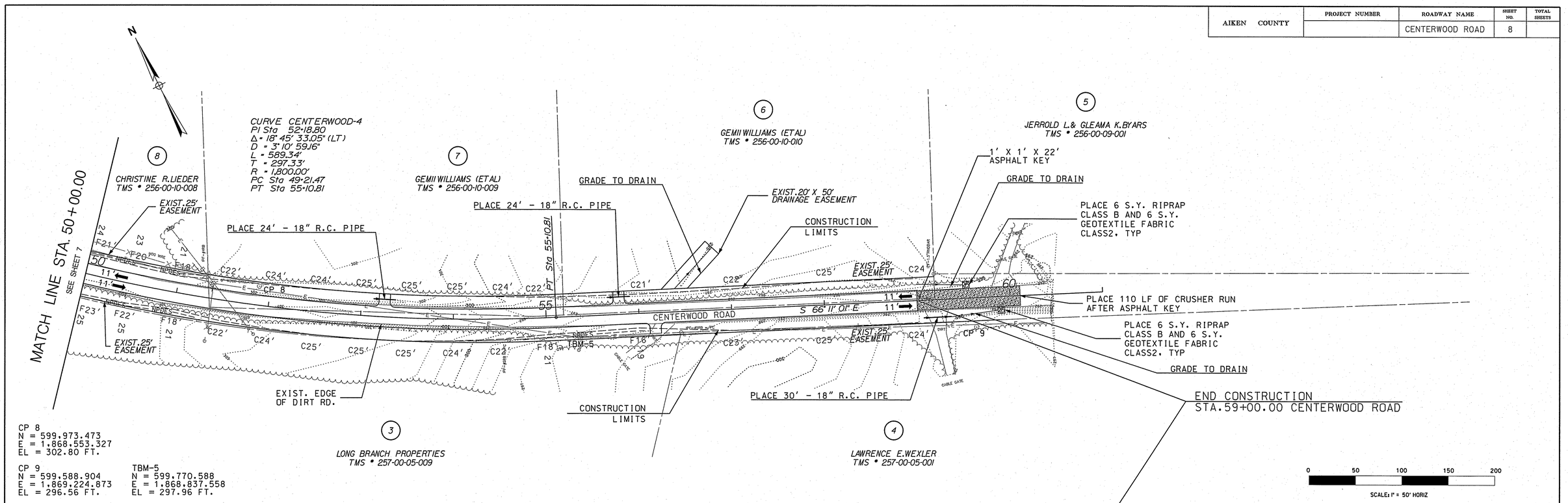
AIKEN COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
		CENTERWOOD ROAD	6	

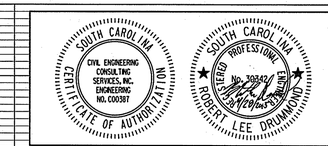


AIKEN COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
		CENTERWOOD ROAD	7	



AIKEN COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
		CENTERWOOD ROAD	8	





EROSION CONTROL DATA SHEET

STATE	COUNTY	PROJECT NUMBER	ROADWAY NAME	SHEET NO.	TOTAL SHEETS
S.C.	AIKEN		CENTERWOOD RD	EC1	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
CENTERWD	13+58	LT	TRIB to SPRING BRANC	SPRING BRANCH CK
CENTERWD	35+87	LT	TRIB to PD BR CK	POND BRANCH CREEK
CENTERWD	59+00	RT	TRIB to PD BR CK	POND BRANCH CREEK
CENTERWD	56+50	LT	TRIB to PD BR CK	POND BRANCH CREEK

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
CENTER	BEG.	END	COARSE	UCP

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	DITCH BOTTOM WIDTH (FT)	MSY
CENTERWOOD	24+25	26+25	RT	2	2	1.5	0	0.180
CENTERWOOD	24+25	27+50	LT	2	2	1.5	0	0.292
CENTERWOOD	29+75	30+75	RT	1	3	1.5	0	0.055
CENTERWOOD	36+50	40+50	RT	3.5	2	1.5	0	0.628
CENTERWOOD	53+25	54+25	LT	1	4	1.6	0	0.067
CENTERWOOD	57+50	59+00	RT	1.5	4	1.5	0	0.148
							TOTALS	1.370

SEDIMENT DAM

ROAD / ROUTE	NO	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF BASIN	WIDTH OF BASIN	DEPTH OF BASIN	SIDE SLOPE OF BASIN	SPILLWAY WIDTH	SPILLWAY DEPTH	TOTAL HEIGHT TO SPILLWAY	SEDIMENT STORAGE VOLUME	RUNOFF STORAGE VOLUME	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
CENTER	12+40	13+50	RT	10	150	20	
CENTER	13+50	13+50	RT	10	1	10	PIPE INLET PROTECTION
CENTER	13+50	21+00	RT	10	150	60	
CENTER	21+00	26+75	RT	10	150	50	
CENTER	28+50	30+75	RT	10	150	30	
CENTER	32+50	41+50	RT	10	150	70	
CENTER	51+25	54+75	RT	10	150	40	
CENTER	56+50	59+50	RT	10	40	90	
CENTER	12+50	13+50	LT	10	150	20	
CENTER	13+50	21+00	LT	10	150	60	
CENTER	21+00	31+00	LT	10	75	150	
CENTER	31+00	35+50	LT	10	150	40	
CENTER	36+50	40+00	LT	10	150	40	
CENTER	40+00	41+50	LT	10	100	30	
CENTER	43+50	48+50	LT	10	75	80	
CENTER	51+25	59+50	LT	10	150	70	
					GRAND TOTAL	860	

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
CENTERWD	12+37	13+58	RT	1	4	2	0	1	0.085	0.000	0.000
CENTERWD	22+25	22+75	RT	1	4	2	0	1	0.035	0.000	0.000
CENTERWD	28+50	29+25	RT	1.3	4	2	0	1	0.069	0.000	0.000
CENTERWD	44+50	47+50	RT	1.3	4	2	0	1	0.276	0.000	0.000
CENTERWD	53+25	54+75	RT	1	4	2	0	1	0.106	0.000	0.000
CENTERWD	57+50	59+50	RT	1.3	4	2	0	1	0.184	0.000	0.000
CENTERWD	28+50	29+75	LT	1	2	2	0	1	0.062	0.000	0.000
								TOTALS	0.817		

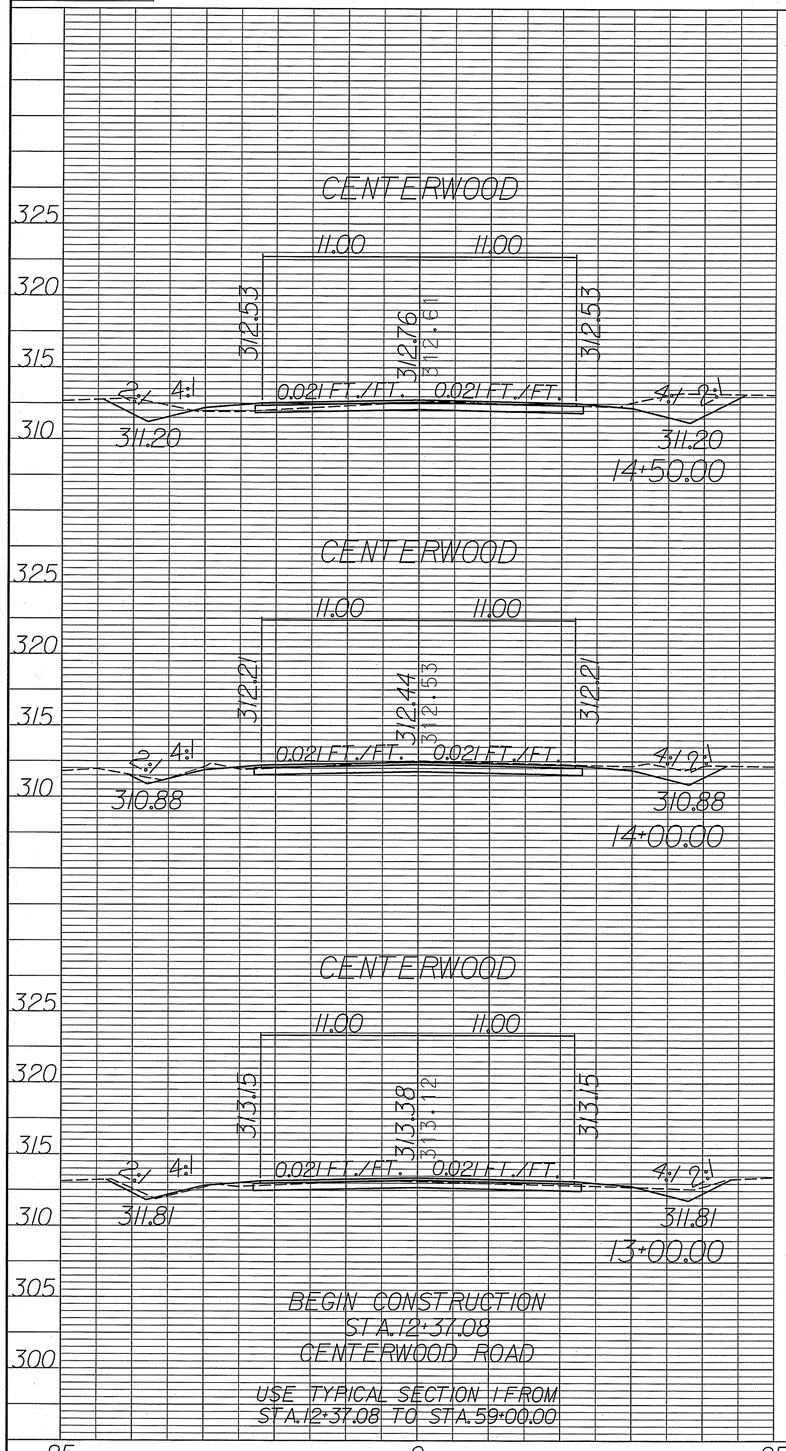
SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00387 CERTIFICATE OF AUTHORIZATION

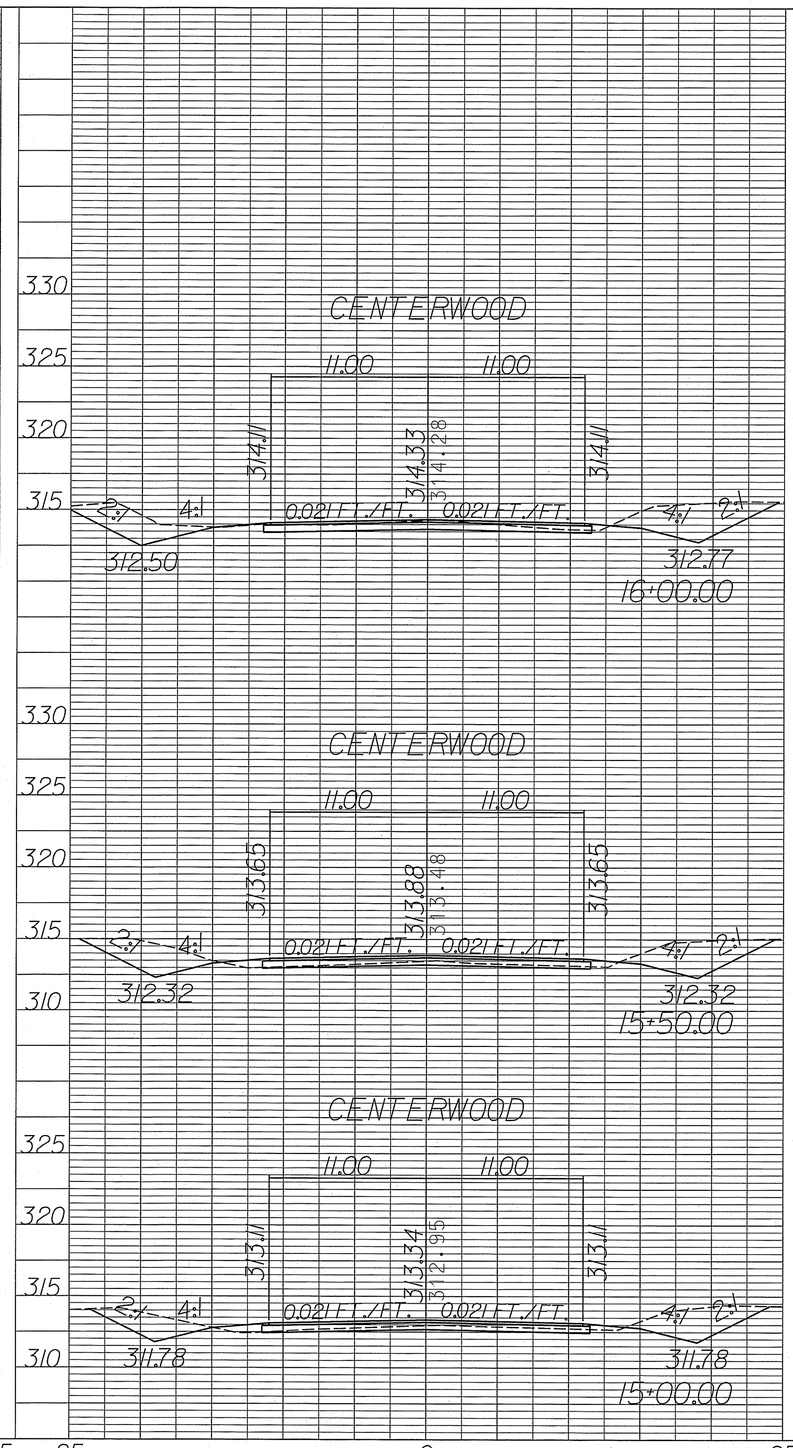
REGISTERED SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20342 ROBERT LEE DRUMMOND

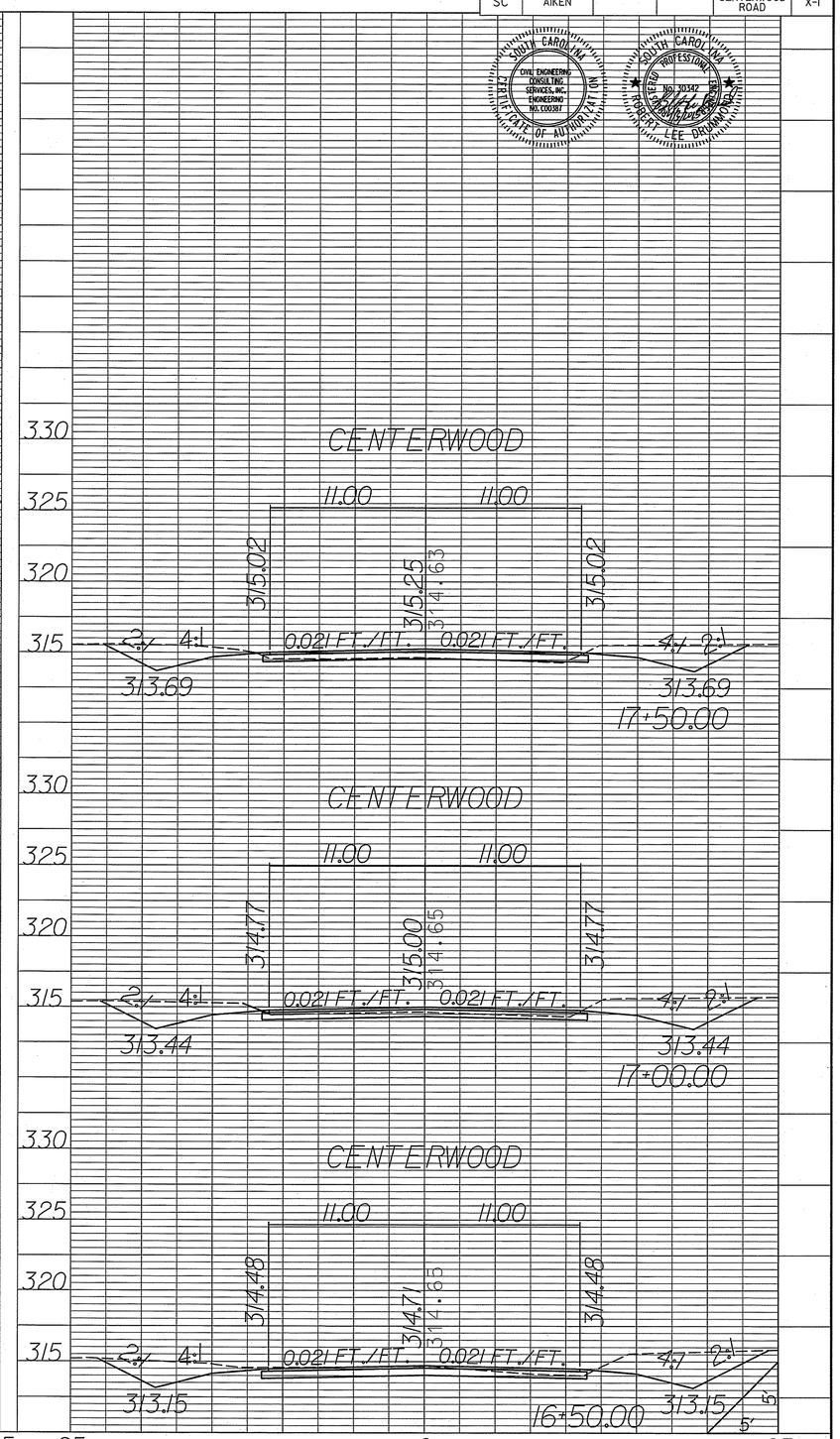
STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-1

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00387 CERTIFICATE OF AUTHORIZATION

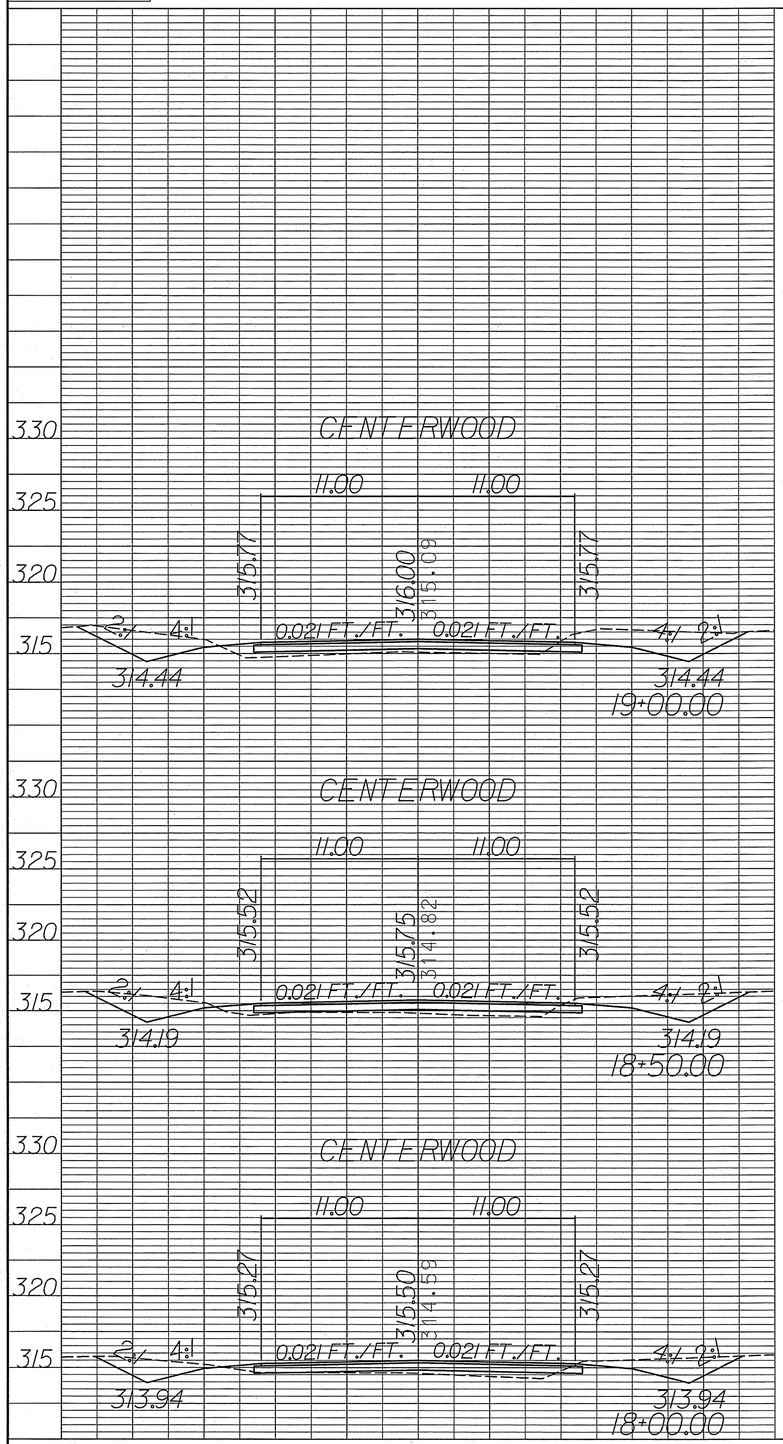
SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 10342 ROBERT LEE DRUMMOND

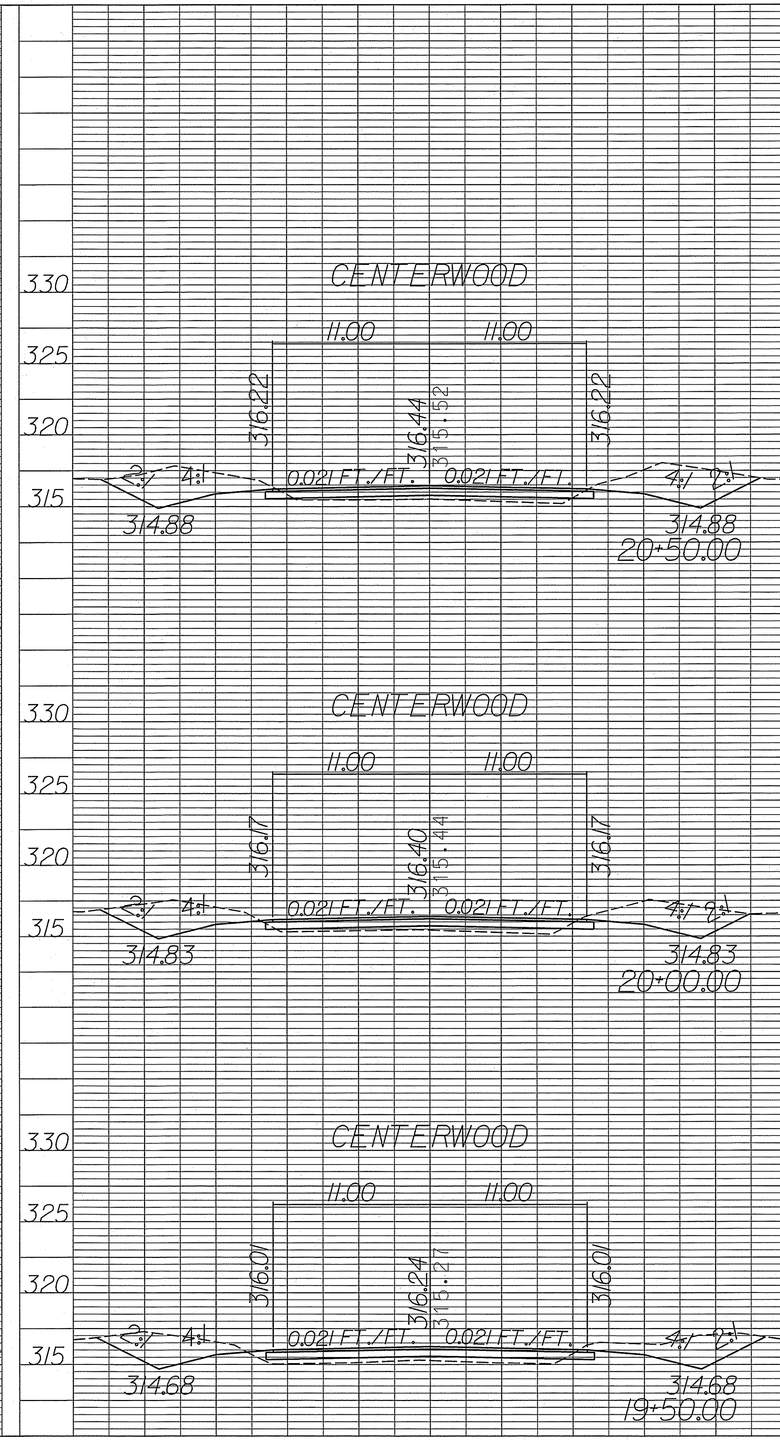


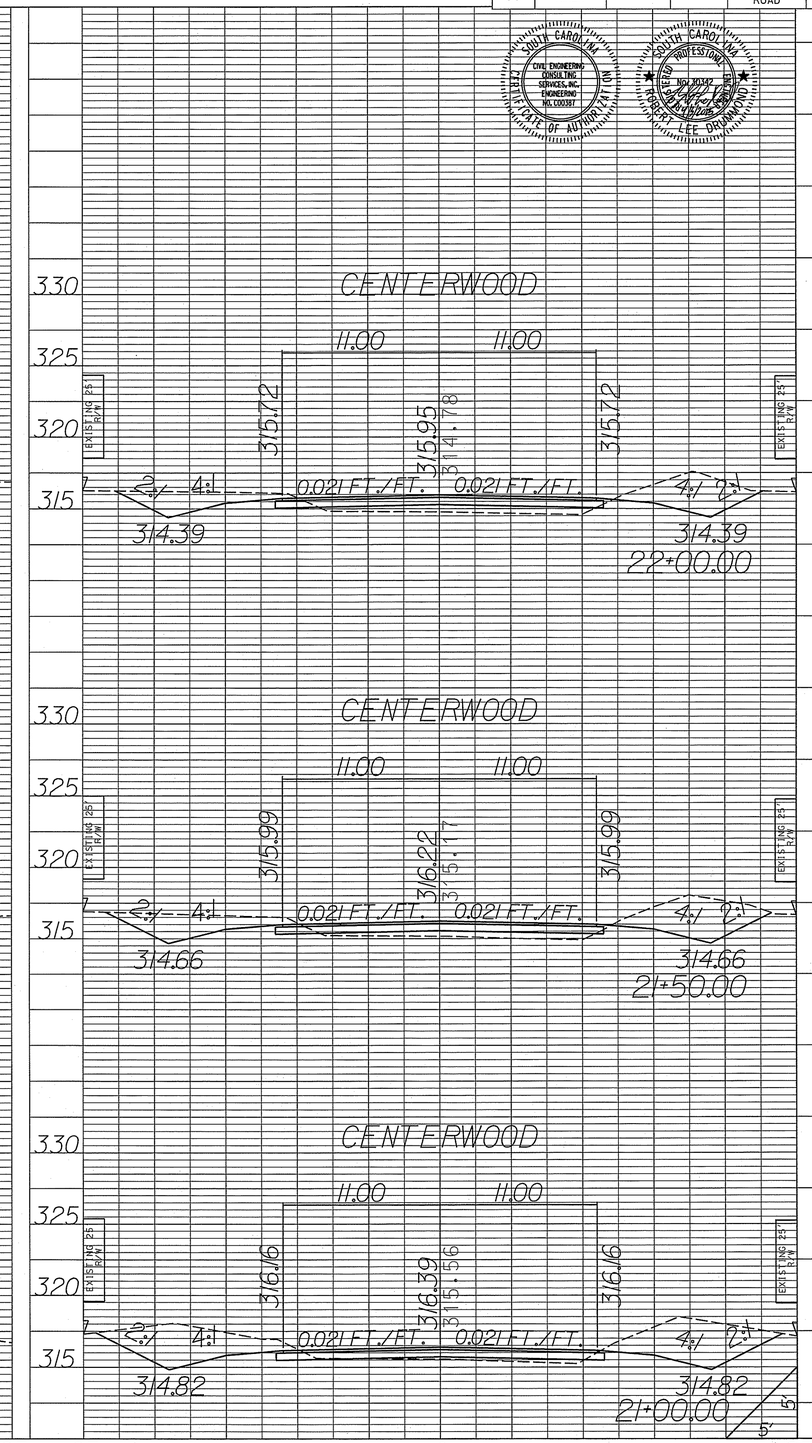




STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-2



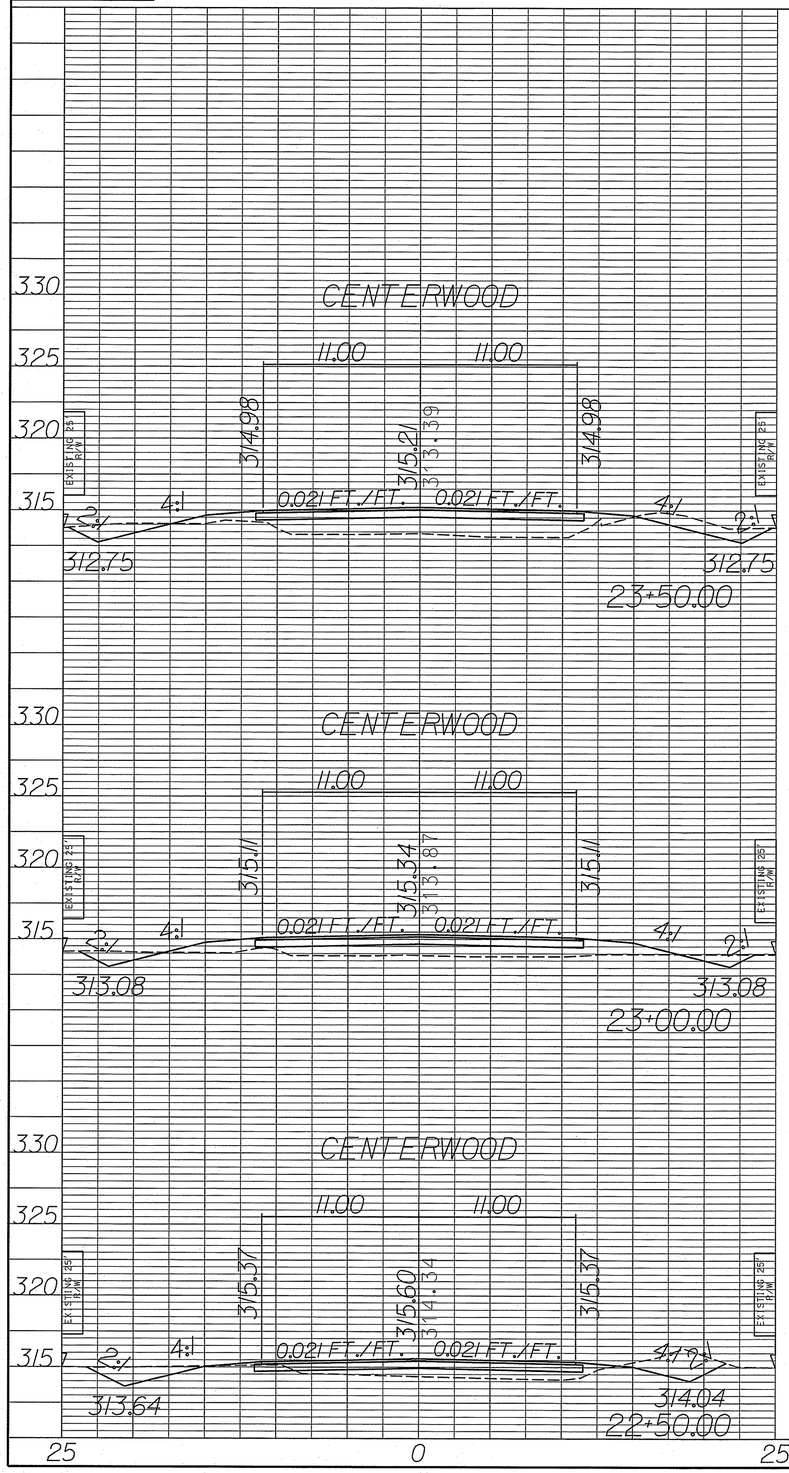


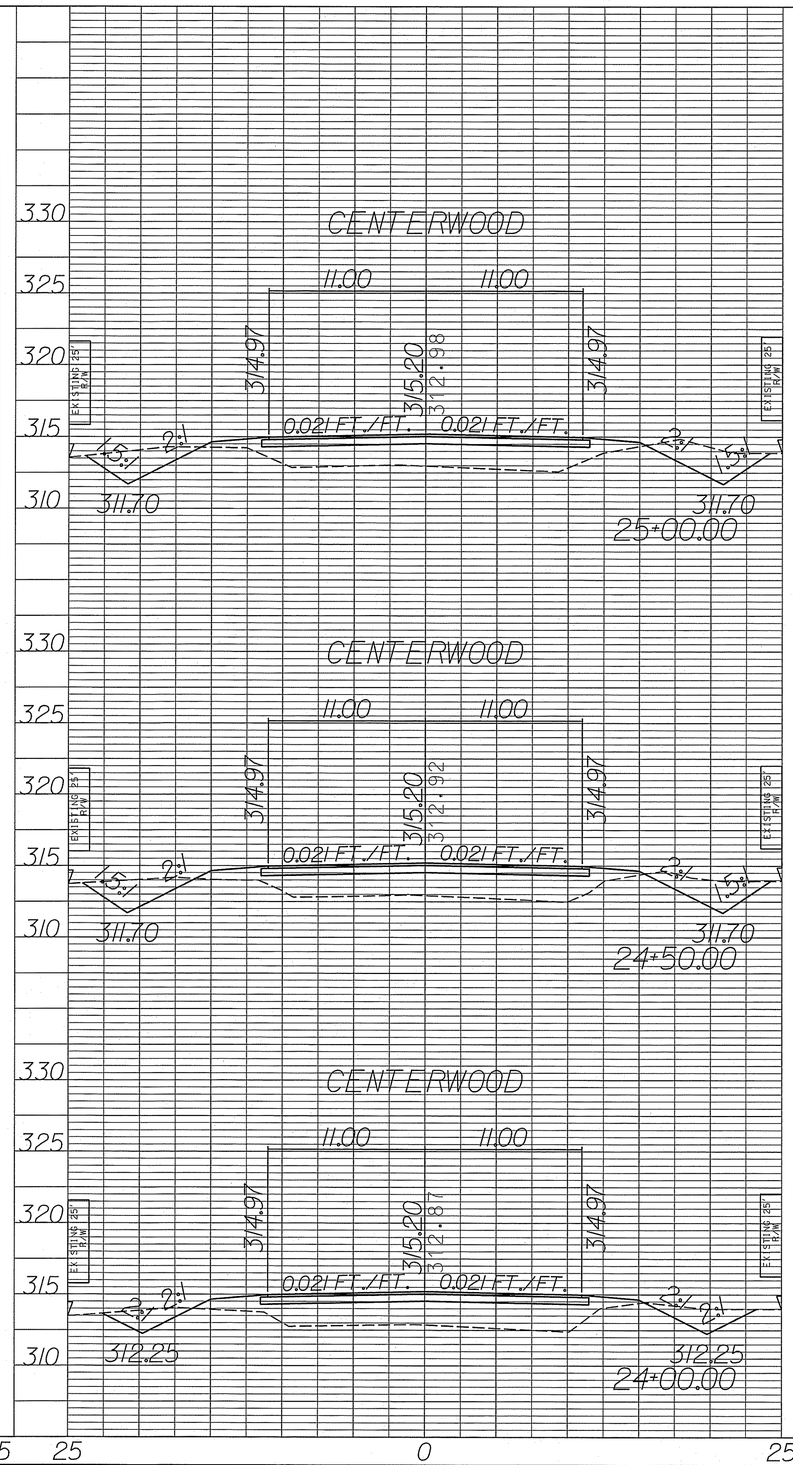


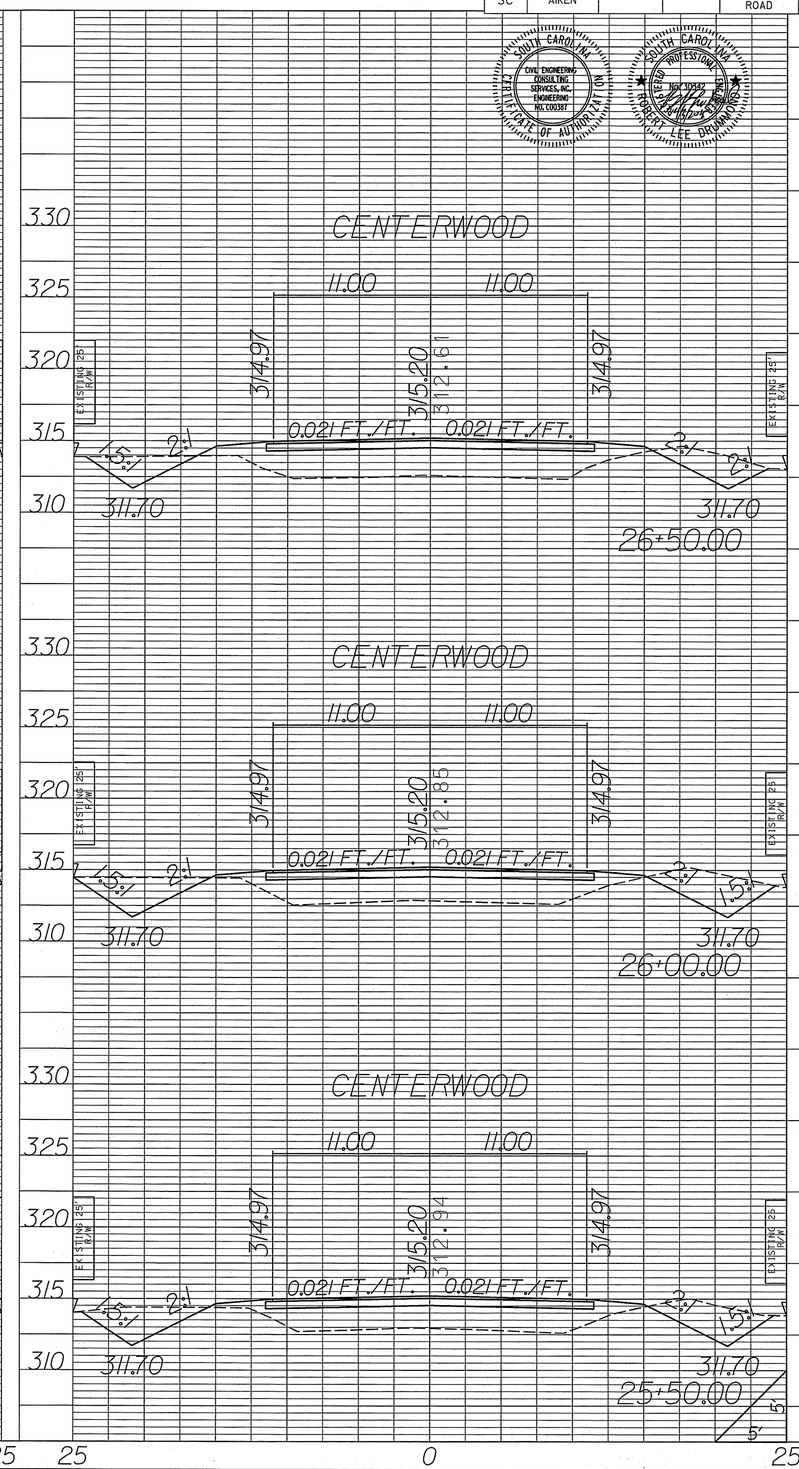
SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00381 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 30342 ROBERT LEE DRUMMOND

STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-3







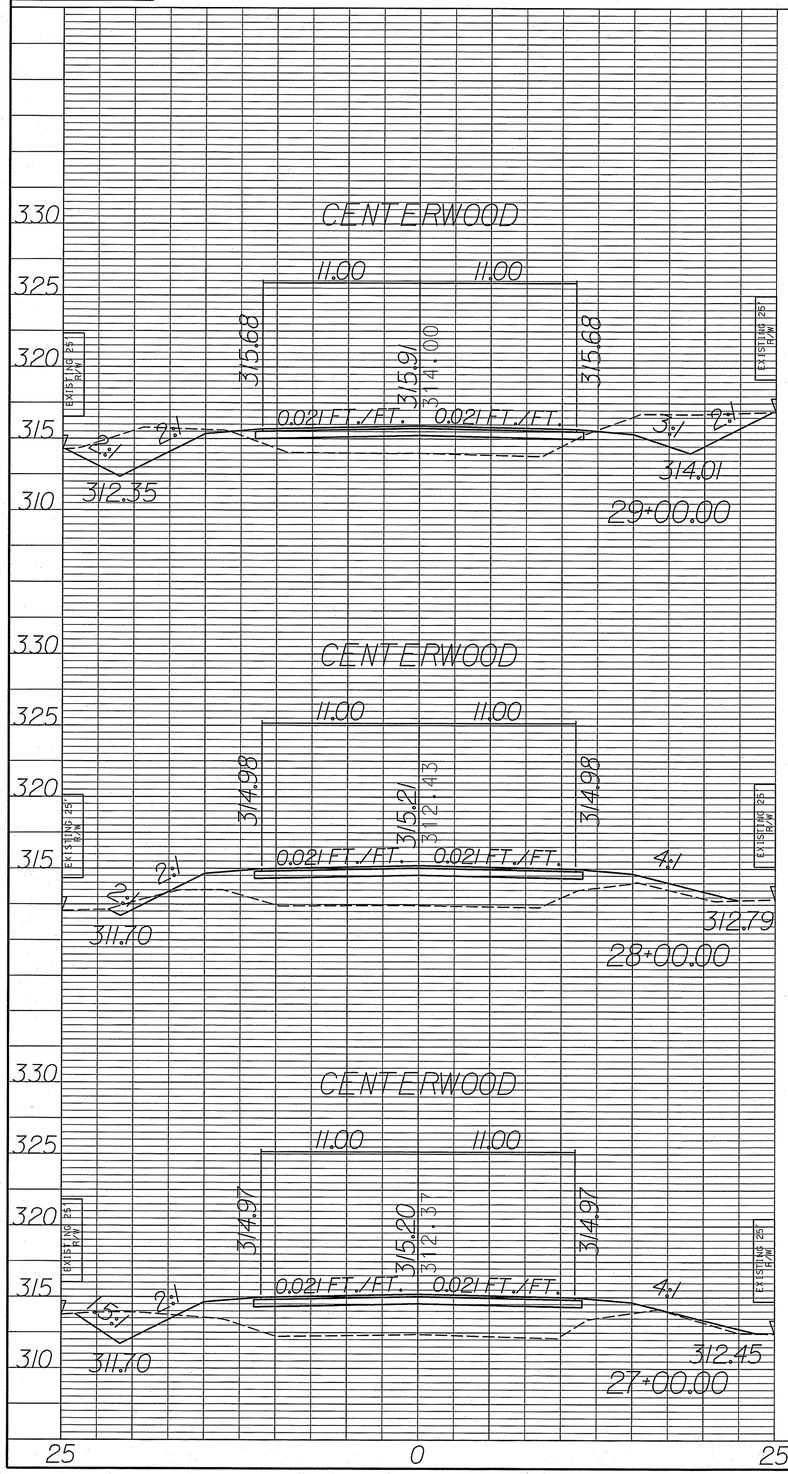
CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00387 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

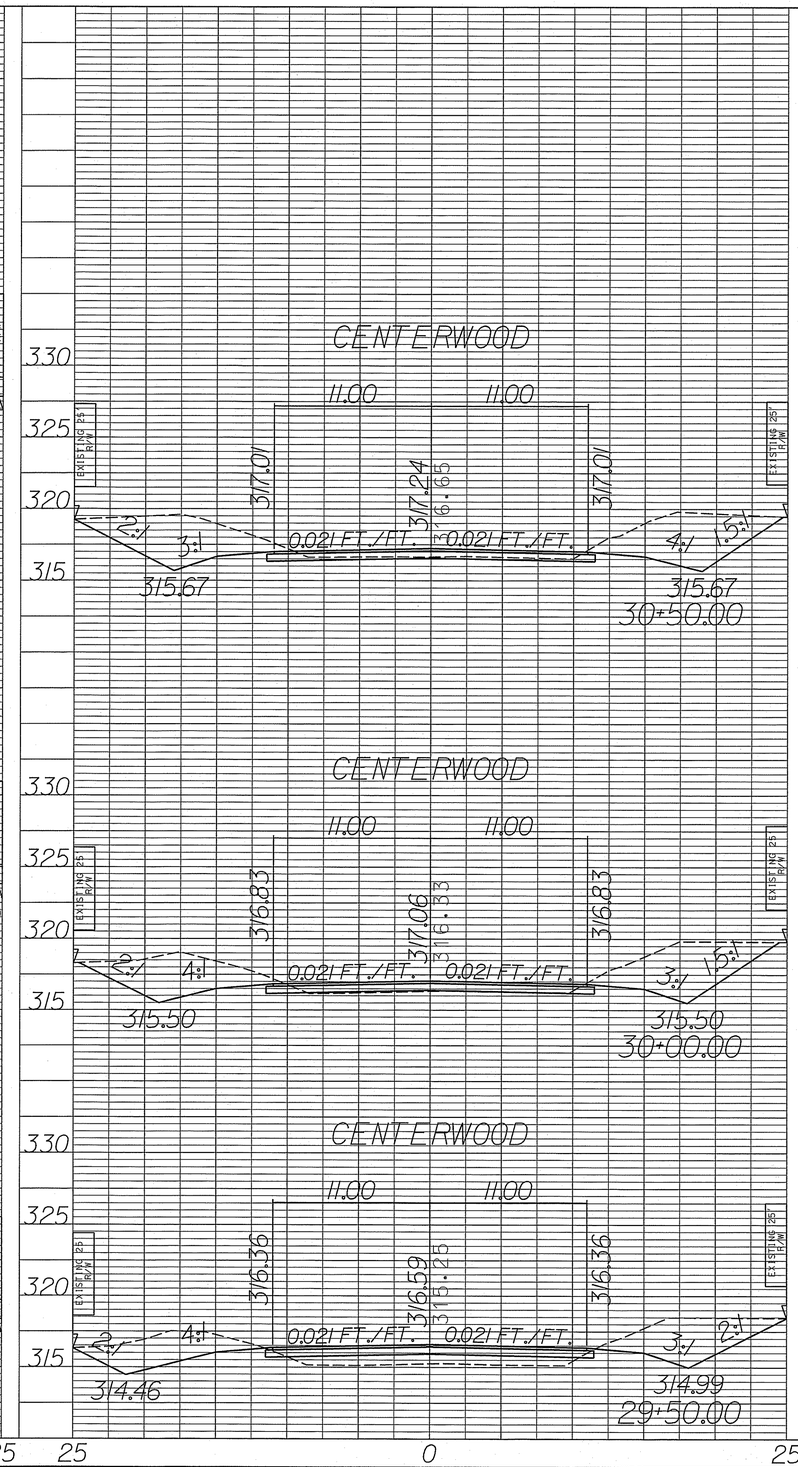
SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 20542 — ROBERT LEE DRUMMOND

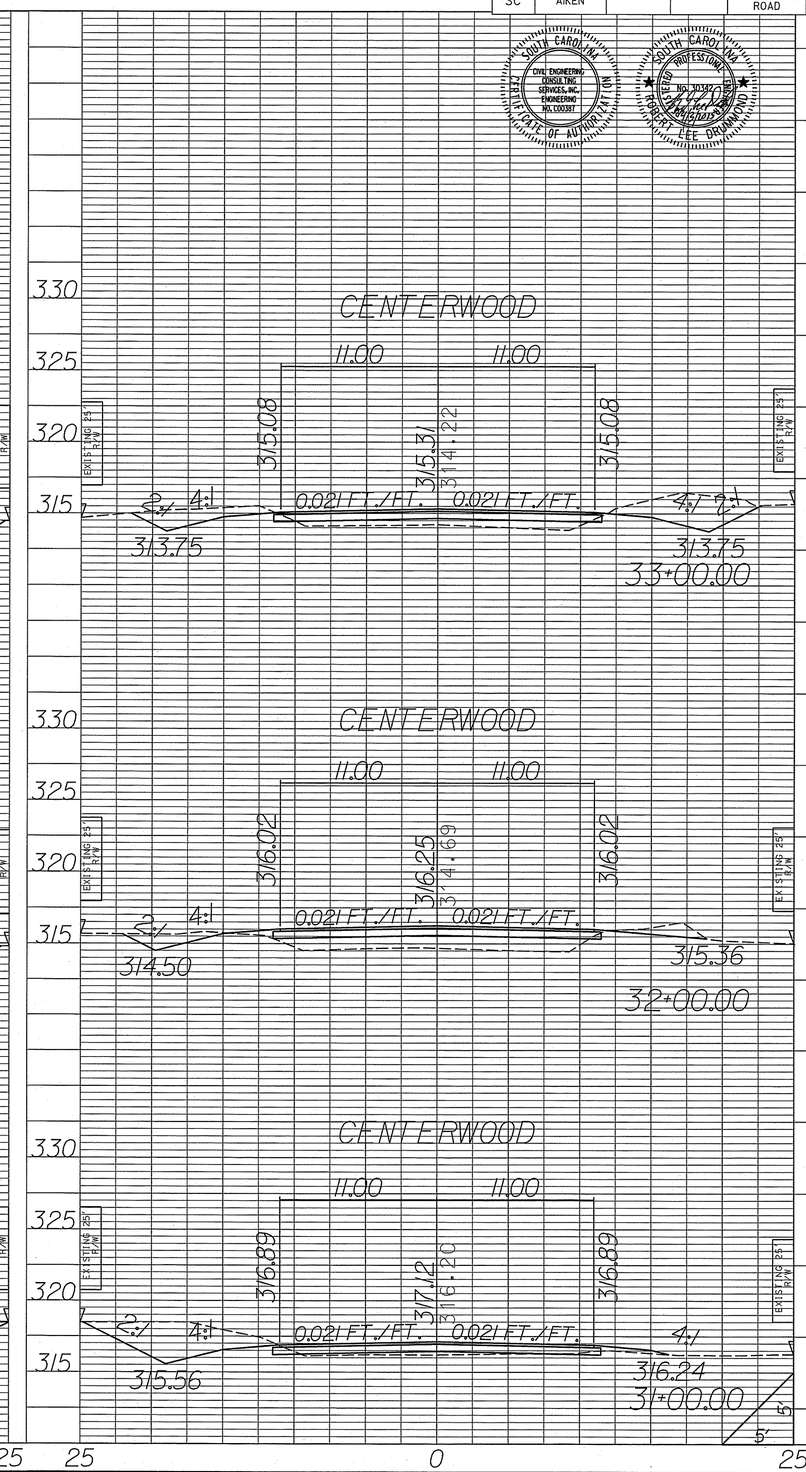
STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-4

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00381 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 10149 ROBERT LEE DRUMMOND



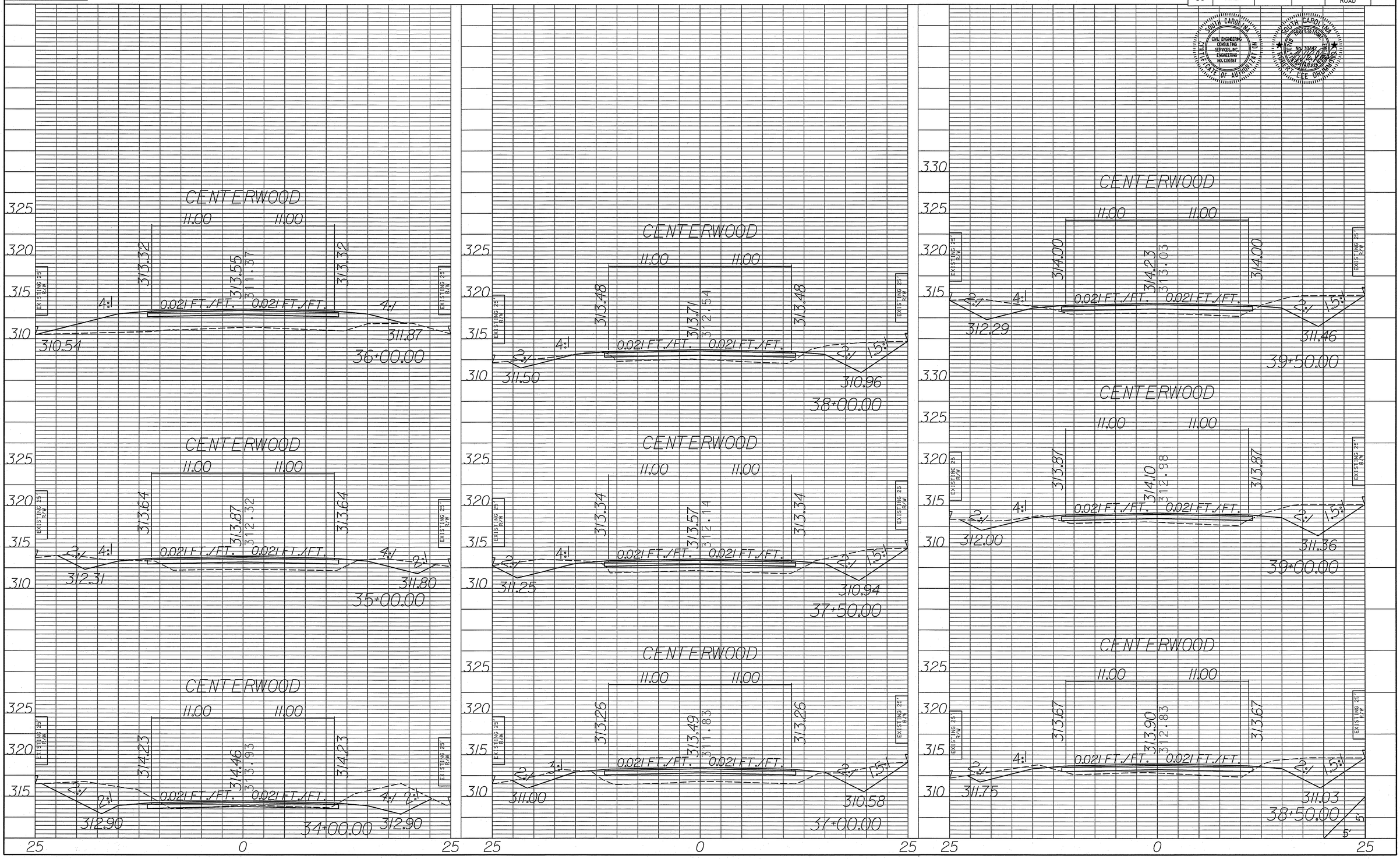




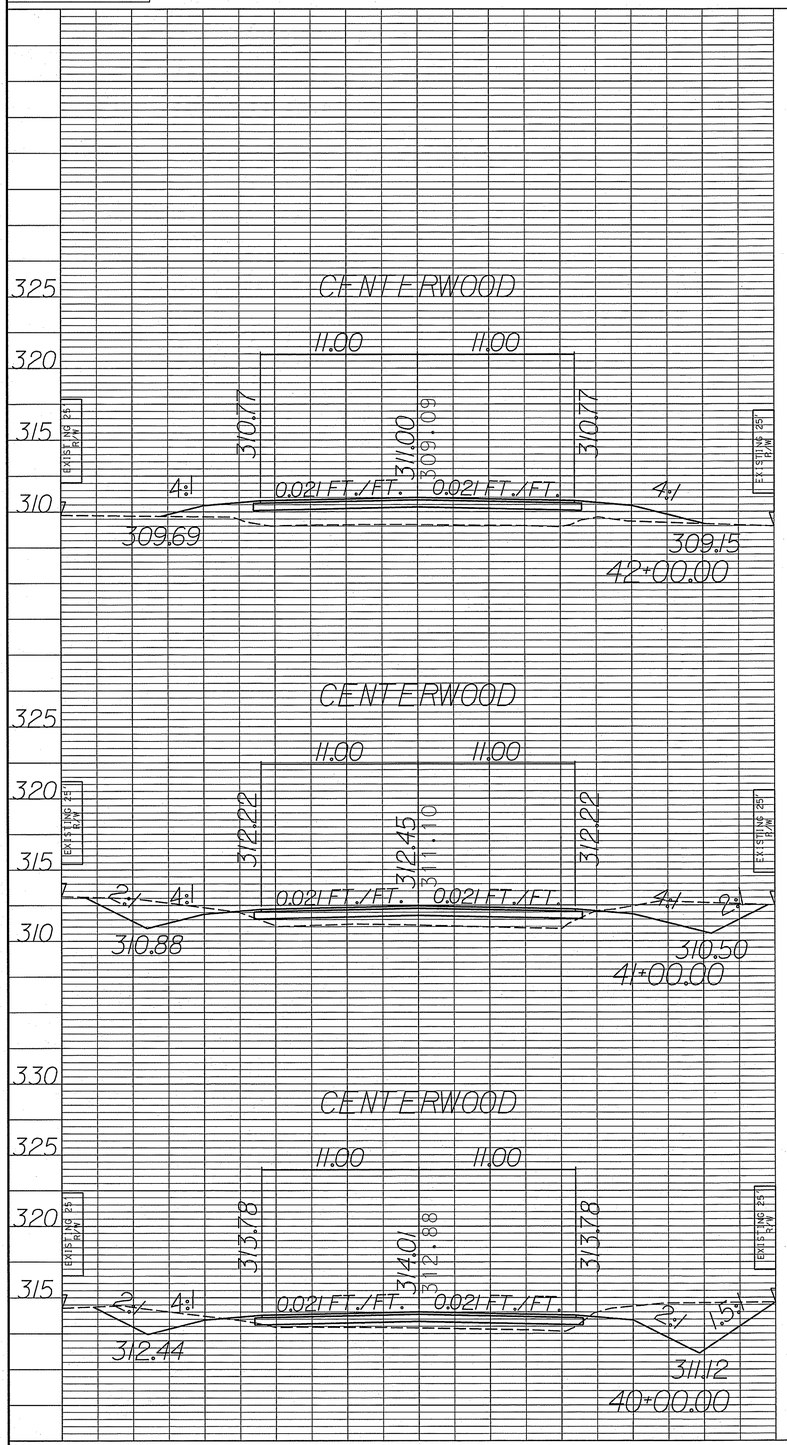
STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-5

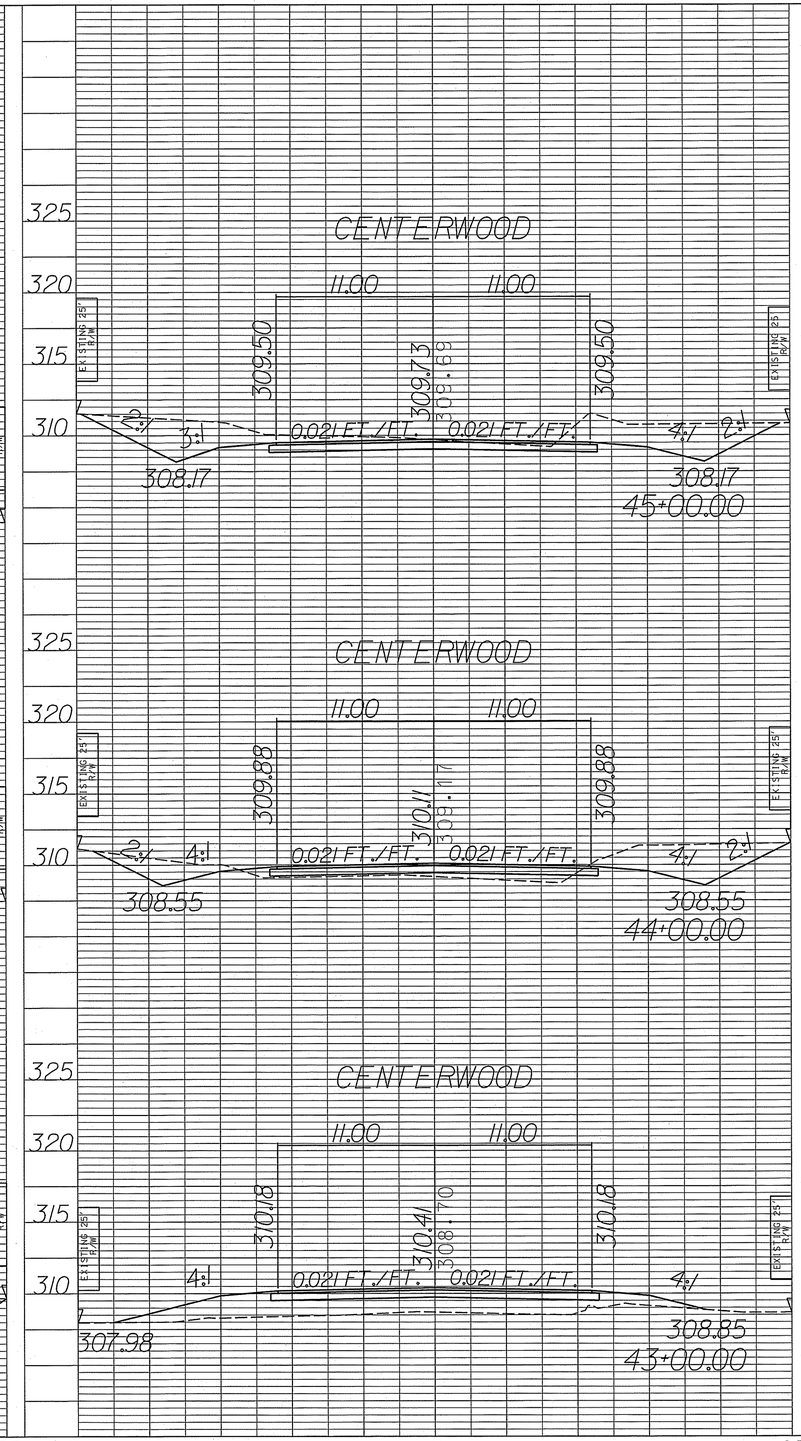
SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING CERTIFICATE OF AUTHORIZATION NO. C00381

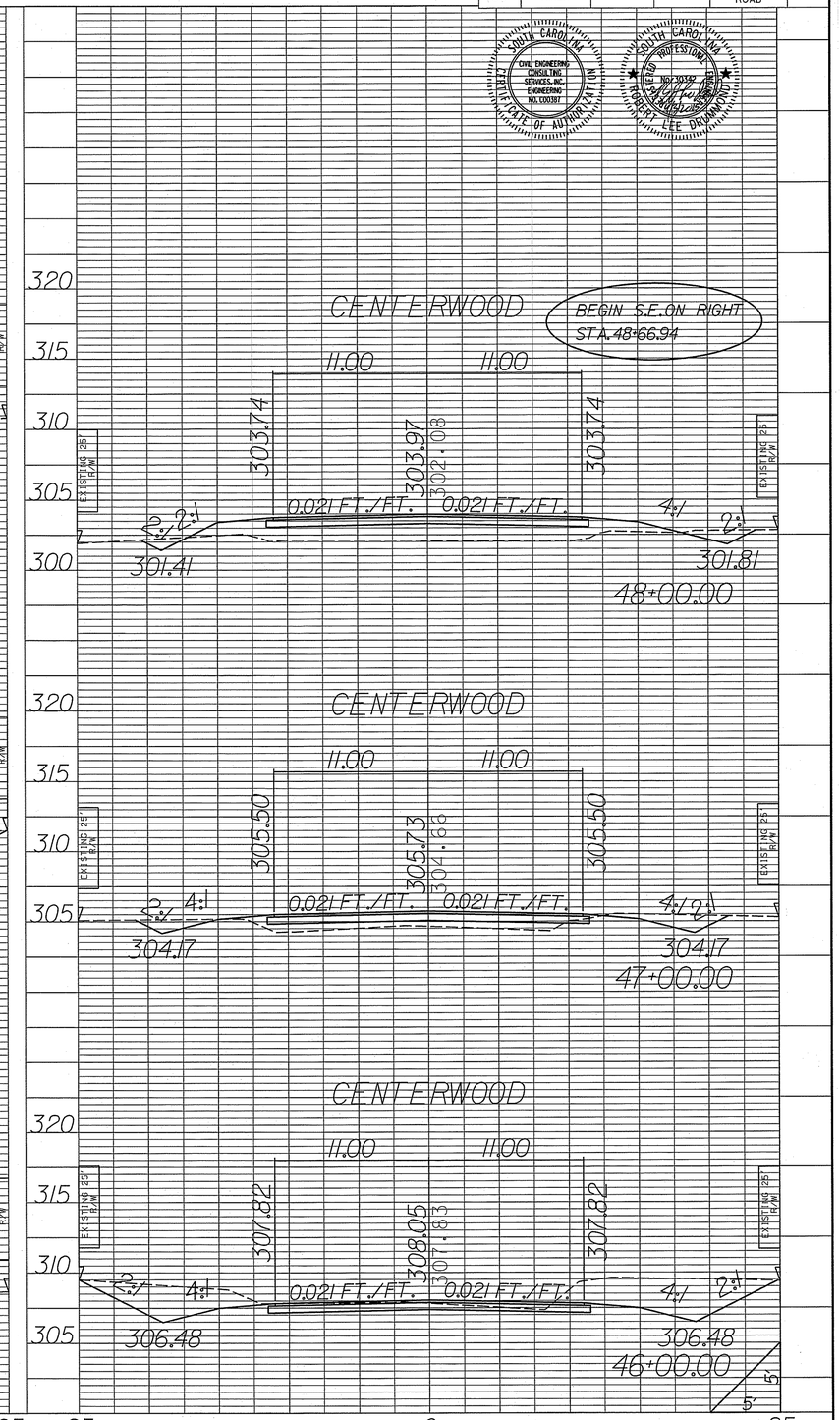
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30442 ROBERT LEE DRUMMOND



STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-6







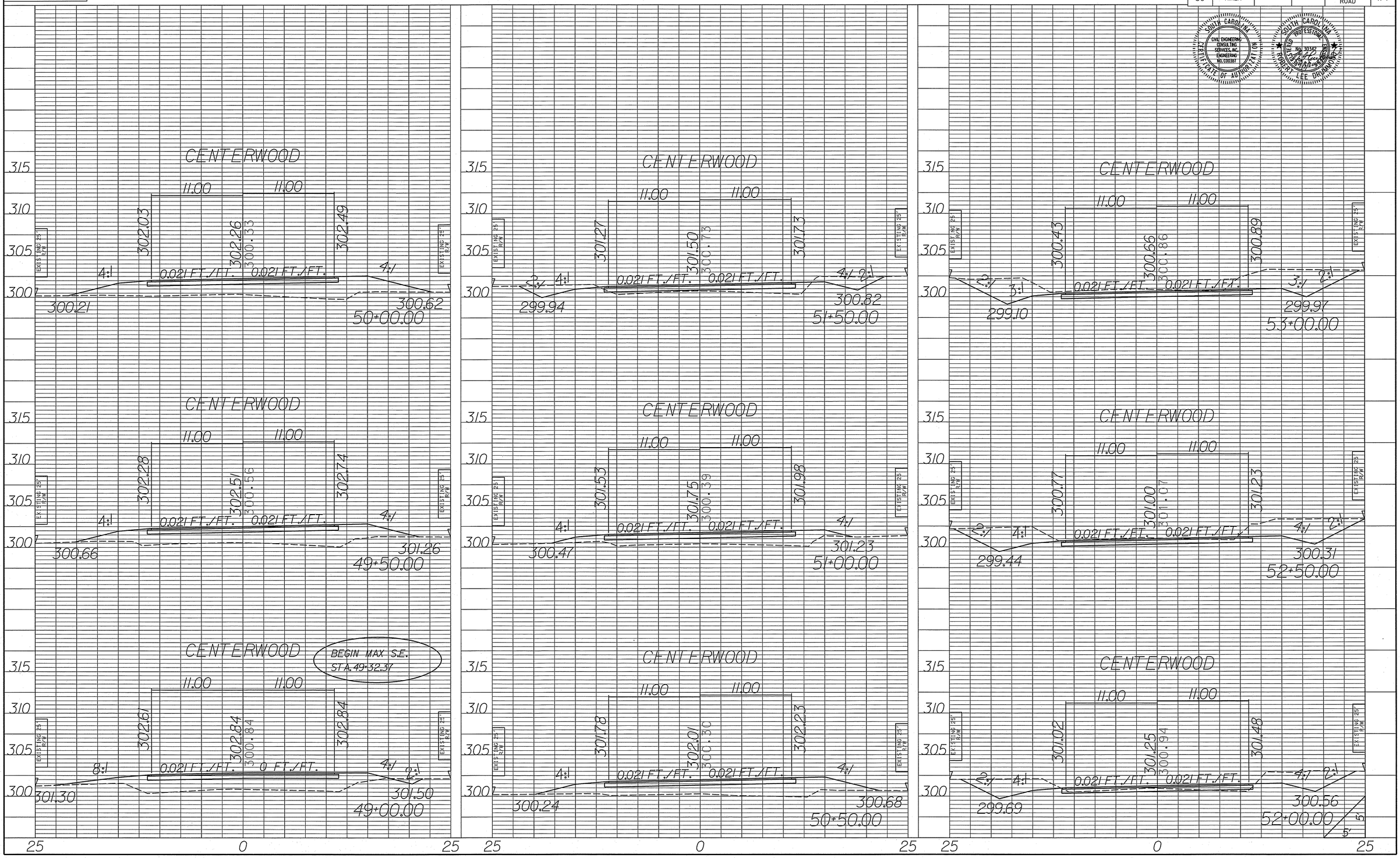
SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING CERTIFICATE OF AUTHORIZATION NO. C00318

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 20352 ROBERT LEE DRUMMOND

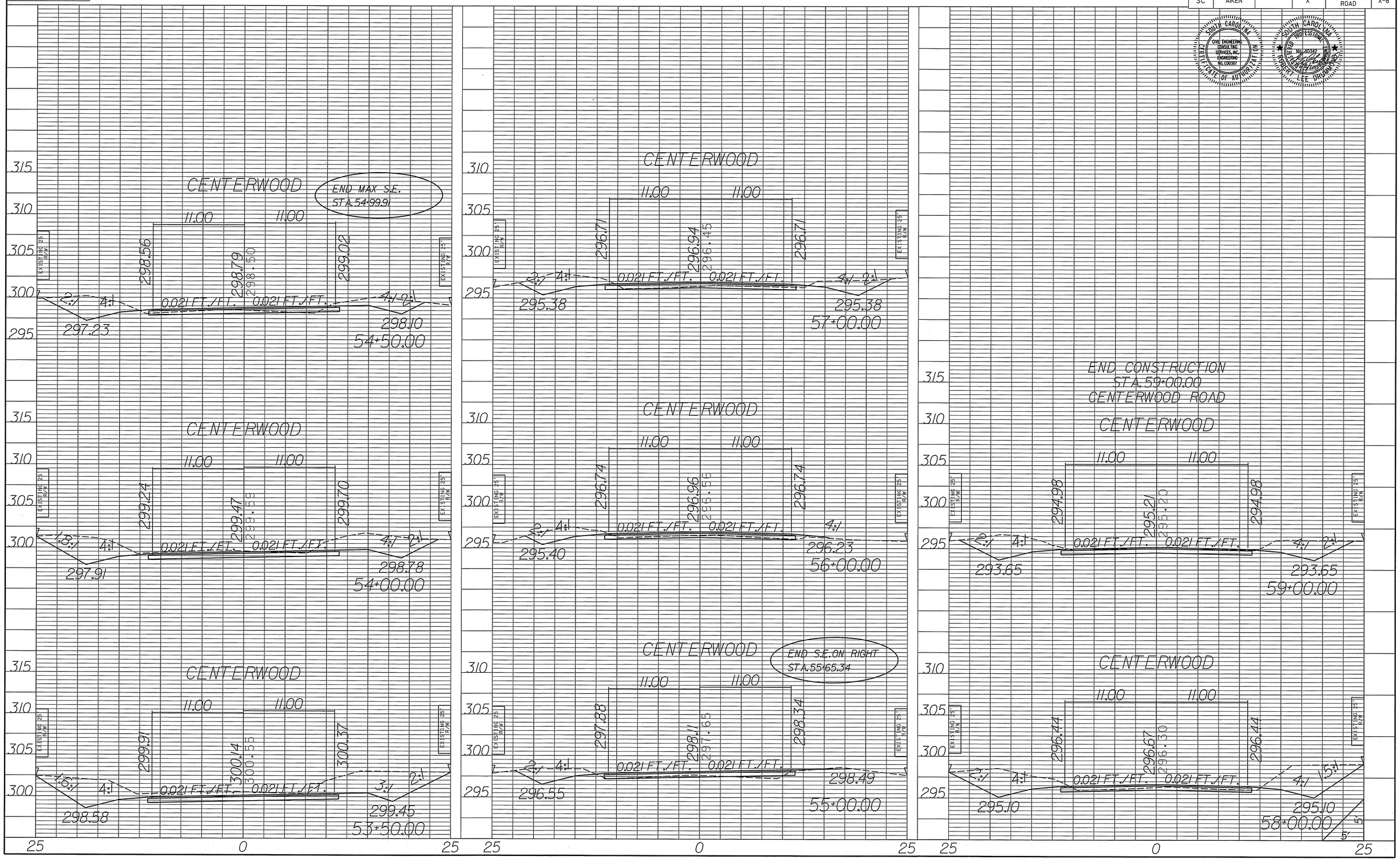
STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN			CENTERWOOD ROAD	X-7

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00381 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 30542 ROBERT LEE DRUMMOND



STATE	COUNTY	FILE	PROJECT	ROAD NO.	SHEET NO.
SC	AIKEN		X	CENTERWOOD ROAD	X-8

SOUTH CAROLINA CIVIL ENGINEERING CONSULTING SERVICES, INC. ENGINEERING NO. C00387 CERTIFICATE OF AUTHORITY

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20347 ROBERT LEE DRUMMOND