

<b>COLLETON COUNTY, SOUTH CAROLINA,</b> a body politic and corporate and a political subdivision of the State of SC	<b>MAIL TO:</b> Colleton County Purchasing Manager Att: Kaye B Syfrett PO Box 157 Walterboro, SC29488	
<b>SEALED BEST VALUE BID</b>		
<b>A Mandatory Pre-bid Meeting will be held  Thursday, December 12, 2013 10:30AM at the  Colleton County Fire Rescue Training Room,  1118 Thunderbolt Road, Walterboro, SC 29488</b>	<b>HAND DELIVER TO:</b> Colleton County Purchasing Office, Room 208 Harrelson Building, 31 Klein Street Walterboro, South Carolina 29488	
<b>Bids will be accepted until 11:00AM,  Tuesday, December 31, 2013</b>	<b>BID NUMBER: CC-11 New Road Construction</b>	

Colleton County, South Carolina (the "**County**") requests bids from qualified licensed contractors to provide approximately 1500' of new road construction, which will be an extension of the existing road located at 1497 Industrial Road, Walterboro, SC.

Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. Responses received after the scheduled due date and time will be rejected. Bids must be submitted in a sealed package marked on the outside with the Offeror's name, address, and the solicitation name and number.

This solicitation does not commit Colleton County to award a contract, to pay any costs incurred in the preparation of bids submitted, or to procure or contract for the services. The County reserves the right to accept or reject or cancel in part, or in its entirety offers received as a result of this request if deemed to be in the best interest of the County to do so.

Questions regarding this solicitation must be emailed to **Jared Fralix, County Engineer** at [jfralix@colletoncounty.org](mailto:jfralix@colletoncounty.org) **no later than 12:00PM on Friday, December 20, 2013. Answers to all questions will be posted on the County website as addendums to this invitation for bid.**

## INSTRUCTIONS TO BIDDERS

1. Submittal must include **one (1) original bid** clearly marked as original, and **four (4) complete copies** of the Offeror's bid along with a **completed W-9 form**. Responses must be in a sealed envelope/package containing the solicitation name and number.

The individual signing the response must be an Agent legally authorized to bind the company.

2. Show solicitation number on the outside of mailing package. Colleton County assumes no responsibility for unmarked or improperly marked envelopes
3. It is the Offeror's sole responsibility to insure that solicitation responses, amendments thereto or withdrawal requests are submitted by the scheduled due date and time.

4. Offeror must clearly mark as "Confidential" each part of their response, which they consider to be proprietary information that could be exempt from disclosure under Section 30-40(C) Code of Laws of South Carolina, 1976, Freedom of Information Act. Colleton County reserves the right to determine whether this information should be exempt from disclosure and legal action may not be brought against the County or its agents for its determination in this regard.

5. RESPONSE FORM: All responses shall be printed in ink or typewritten. If required, additional pages may be attached. Bids written in pencil will be disqualified.

**A "No Response" qualifies as a response; however it is the responsibility of the Offeror to notify the Procurement Office if you receive solicitations that do not apply.**

## **SPECIFIC TERMS AND CONDITIONS**

1. **COMPETITION:** This solicitation is intended to promote full and open competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested vendor to notify the Procurement Office in writing no later than five (5) business days prior to the scheduled due date and time.

2. **BIDDERS QUALIFICATION:** The County reserves the right to request satisfactory evidence of their ability to furnish services in accordance with the terms and conditions listed herein. The County further reserves the right to make the final determination as to the Offerors ability to provide said services.

3. **BID WITHDRAWAL:** Any responses may be withdrawn prior to the established closing date and time, but not thereafter with proper approval from the Procurement Director.

4. **REJECTION:** Colleton County reserves the right to reject any and all bids, to cancel or withdraw this solicitation, and to waive any technicality if deemed to be in the best interest of the County.

5. **WAIVER:** The County reserves the right to waive any Instruction to Offerors, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the County.

6. **RESPONSE PERIOD:** All responses shall be good for a minimum period of 60 calendar days.

7. **DEVIATIONS FROM SPECIFICATIONS:** Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful bidder will be held responsible therefore. Deviations must be explained in detail on separate attached sheet(s). The listing of deviations, if any, is required but will not be construed as waiving any requirements of the specifications. Unidentified deviations found during the evaluation of the response may be cause for rejection.

**8. AMENDMENTS:** All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of Colleton County.

**9. DEFAULT:** In case of default by the Offeror, the County reserves the right to purchase any or all items in default in the open market, charging the Offeror with any excessive costs. Should such charge be assessed, no subsequent solicitation response of the defaulting Offeror will be considered in future bids until the assessed charge has been satisfied.

**10. NON-APPROPRIATION / SUBSTITUTION PERMITTED:** If the Colleton County Council fails to appropriate or authorize the expenditure of sufficient funds to provide the continuation of this contract or if a lawful order issued in, or for any fiscal year during the term of the agreement, reduces the funds appropriated or authorized in such amounts as to preclude making the payments set out therein, the agreement shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to County. Following any such non-appropriation, the master lease agreement shall contain no limitation on the County's ability to replace the equipment financed with any other equipment.

**11. INDEMNIFICATION:** Except for expenses or liabilities arising from the negligence of the County, the Offeror hereby expressly agrees to indemnify and hold the County harmless against any and all expenses and liabilities arising out of the performance or default of any resulting agreement or arising from or related to the Work as follows:

Offeror expressly agrees to the extent that there is a causal relationship between its negligence, action or inaction, or the negligence, action or inaction of any of its employees or any person, firm, or corporation directly or indirectly employed by the Offeror, and any damage, liability, injury, loss or expense (whether in connection with bodily injury or death or property damage or loss) that is suffered by the County and its employees or by any member of the public, to indemnify and save the County and its employees harmless against any and all liabilities, penalties, demands, claims, lawsuits, losses, damages, costs, and expenses arising out of the performance or default of any resulting agreement or arising from or related to the equipment. Such costs are to include defense, settlement and reasonable attorneys' fees incurred by the County and its employees. This promise to indemnify shall include bodily injuries or death occurring to Offeror's employees and any person, directly or indirectly employed by Offeror (including without limitation any employee of any subcontractor), the County's employees, the employees of any other independent contractor, or occurring to any member of the public. When the County submits notice, Offeror shall promptly defend any aforementioned action.

The prescribed limits of insurance set forth herein shall not limit the extent of the Offeror's responsibility under this Section. The terms and conditions contained in this Section shall survive the termination of any resulting agreement or the suspension of the Work hereunder.

Additionally the County will not provide indemnity to the successful bidder. Failure to comply with this section may result in your bid to be deemed non-responsive.

**12. FORCE MAJEURE:** The Offeror shall not be liable for any excess costs if the failure to perform the resulting agreement arises out of causes beyond the control and without fault or negligence of the Offeror. Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the contractor. If the failure to perform is caused by default of a subcontractor, and if such default arises

out of causes beyond the control of both the Offeror and subcontractor and without excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the contractor to meet the required delivery schedule.

**13. ARBITRATION:** Under no circumstances and with no exception will Colleton County act as arbitrator between the Offeror and any sub-contractor.

**14. PUBLICITY RELEASES:** Offeror agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the County. The Offeror shall not have the right to include the County's name in its published list of customers without prior approval of the County Administrator. With regard to news releases, only the name of the County, type and duration of any resulting agreement may be used and then only with prior approval of the County. The Offeror also agrees not to publish, or cite in any form, any comments or quotes from the County's staff unless it is a direct quote from the Procurement Director.

**15. GOVERNING LAWS:** Any agreement arising from this solicitation shall be governed by the laws of the State of South Carolina and any and all disputes arising out of said agreement shall, if litigation is necessary, be litigated only in a Circuit Court for the Fourteenth Judicial Circuit sitting in Colleton County, South Carolina. The prevailing party shall be entitled to attorney's fees and all costs of said litigation.

**16. ASSIGNMENT:** The Offeror shall not assign in whole or in part any agreement resulting from this Request for Bids without the prior written consent of the County. The Offeror shall not assign any money due or to become due to him under said agreement without the prior written consent of the County.

**17. AFFIRMATIVE ACTION:** The successful Offeror will take affirmative action in complying with all Federal and State requirements concerning fair employment and treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.

**18. CONTRACT AWARD:**

**A.** This solicitation and submitted documents, when properly accepted by Colleton County shall constitute an agreement equally binding between the successful Offeror and the County. No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting agreement. The County shall not be legally bound by any amendment or interpretation that is not fully executed by both parties in writing.

**B.** The successful Offeror shall be required to execute a formal agreement with the County's Procurement Office **within ten (10) business days after issuance of the Notice of Award.**

**19. PURCHASING CARD:** By submitting a bid, contractor agrees to accept payment by the Colleton County Purchasing Card for no extra charge. The Purchasing Card is issued by Visa. The purchasing card allows county agencies to make authorized purchases from a vendor, in conjunction with a purchase order.

**20. CONTRACT ADMINISTRATION:** Questions or problems arising after award of an agreement shall be directed to the Procurement Director by calling (843) 549-5716. Copies of all correspondence concerning this solicitation or resulting agreement shall be sent to the Procurement Office, 31 Klein Street, Room 215, Walterboro, SC 29488.

## **SPECIFICATIONS**

It is the intent of Colleton County to accept bids from qualified licensed contractors to provide approximately 1500' of new road construction to include associated drainage and site work. The new road will be an extension of the existing access road into the County's Venture Park industrial site. The pavement section will include 8" of graded aggregate base and 2 – 2" lifts of Hot Mix Asphalt. The contractor will provide services in accordance with the specific terms and conditions, specifications, general conditions and drawings provided in this solicitation.

Thomas & Hutton Engineering (quality control engineers) shall secure all necessary approvals, permits, assessments, and changes required for the construction and installation of this project as applicable by local, state, and federal regulations. Bidder shall coordinate with Thomas & Hutton Engineering to ensure that permits are in place before work commences.

Complete set of plans and specs will be available to purchase at the Mandatory pre-bid meeting, Thursday, December 12, 2013 for **\$85.00**. Please make check payable to: **Thomas & Hutton**.

The Contractor must be responsible and use utmost care in the protection of County property and adjacent properties, buildings, etc.; including all walkways, shrubbery, parked vehicles, and any other property in the area, from damage. Any damage, including damage to finished surfaces, resulting from the performance of this contract must be repaired to the County's satisfaction at the Contractor's expense.

The work site may be occupied during the times work is performed. Contractor and Contractor's personnel must exercise a particularly high level of discipline, safety and cooperation at all times while on the job site. The Contractor will be responsible for controlling employee conduct, for assuring that its employees are not boisterous or rude, and assuring that they are not engaging in any destruction or criminal activity.

## **GENERAL CONDITIONS**

**A) Abandonment or Delay:** If the work to be done under this contract shall be abandoned or delayed by the Offeror, or if at any time the County shall be of the opinion and shall so certify in writing that work has been abandoned or delayed by the Offeror, the County may annul the contract or any part thereof if the Offeror fails to resolve the matter within thirty (30) days of written notice.

**B) Offeror's Cooperation:** The Offeror shall maintain regular communications with the County Engineer and shall actively cooperate in all matters pertaining to this contract.

**C) Responsibility:** The Offeror shall at all times observe and comply with all federal, state, local and municipal laws, ordinances, rules and regulations in any manner affecting the contract.

**D) Hold Harmless:** All respondents to this bid shall indemnify and hold harmless Colleton County Government and any of their officers and employees from all suits and claims alleged to be a result of this bid. The issuance of this bid constitutes only an invitation to present a proposal. Colleton County reserves the right to determine, at its sole discretion, whether any aspect of a respondent's submittal meets the criteria in this bid. Colleton County also reserves the right to seek clarifications, to negotiate with any vendor submitting a response, to reject any or all responses with or without cause, and to modify the procurement process and schedule.

In the event that this bid is withdrawn or the project canceled for any reason, Colleton County shall have no liability to any respondent for any costs or expenses incurred in connection with this bid or otherwise.

**E) Colleton County Procurement Policy:** The Bid is subject to the provisions of the Colleton County Procurement Ordinance and any revisions thereto, which are hereby incorporated into this bid in their entirety except as amended or superseded within.

**F) Failure to Submit All Mandatory Forms:** Failure to submit all the mandatory forms from this Bid package shall be just cause for the rejection of the qualification package. However, Colleton County reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.

**G) Failure to Deliver Goods in Accordance with Terms & Conditions:** In case of failure to deliver goods in accordance with the contract terms and conditions, Colleton County, after due oral or written notice, may procure substitute goods or services from other sources and hold the contractor responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies which Colleton County may have.

**H) Debarment:** By submitting a qualification package, the vendor is certifying that they are not currently debarred from bidding on any contracts by any agency or subdivision of the State of South Carolina, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency or subdivision of the State of South Carolina.

**I) Termination of Contract**

1. Subject to the Provisions below, the contract may be terminated by the Purchasing Department providing a thirty (30) days advance notice in writing is given to the offeror.

a. Termination for Convenience: In the event that this contract is terminated or canceled upon request and for the convenience of the County without the required thirty (30) days advance written notice, then the County shall negotiate reasonable termination costs, if applicable.

b. Termination for Cause: Termination by the County for cause, default or negligence on the part of the offeror shall be excluded from the foregoing provisions; termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived and the default provision in this bid shall apply.

c. The County shall be obligated to reimburse the Offeror only for those services rendered prior to the date of notice of termination, less any liquidation damages that may be assessed for non-performance.

2. Non-Appropriations Clause: Notwithstanding any other provisions of the contract, if the funds anticipated for the continued fulfillment of this contract are at any time not forthcoming, through the failure of the County Government to appropriate funds, discontinuance or material alteration of the program under which funds were provided, the County shall have the right to terminate the contract without penalty by giving not less than thirty (30) days written notice documenting the lack of funding.

Unless otherwise agreed to by the County and the Offeror, the contract shall become null and void on the last day of the fiscal year for which appropriations were received.

**J) Governing Laws:** Any contract resulting from this bid shall be governed in all respects by the laws of the State of South Carolina and any litigation with respect thereto shall be brought in the courts of the State of South Carolina.

**K) Bonds:** Payment and Performance Bonds are required for this bid.

**L) Ligated damages:** Ligated damages is the agreed by the Contractor and Owner to reimburse the Owner for damages due to failure of the Contractor to complete the work in accord with the project requirements and Construction Schedule.

1. Should the Contractor neglect or refuse to achieve substantial completion on or before the day as Agreed in the Construction schedule they, shall pay the owner ligated damages in the amount of: **\$200.00 per day for each and every calendar day that the work is not finally complete.**

**M) Type of contract:** This bid is for the purpose of obtaining a **Lump Sum contract price** for services as described in the Scope of Work.

**N) Insurance:** Colleton will require the following remain in force at all times through the life of the contract:

**Insurance requirements** – Colleton will require the following remain in force at all times through the life of the contract:

- Professional Liability Insurance – Minimum \$1,000,000.00 Proof of in force insurance must be provided in the response to the RFP
- Other insurances:
- Workers' Compensation - \$100,000 – each accident
  - Statutory Coverage and Employer's - \$100,000 each employee
  - Liability - \$500,000 – policy limit
- Comprehensive General Liability -\$1,000,000 – bodily injury each occurrence

\$1,000,000 – bodily injury aggregate

\$1,000,000 – property damage each occurrence

\$1,000,000 – property damage aggregate

- Products – Completed Operations - \$1,000,000 – aggregate
- Business Auto Liability – Same as Comprehensive General Liability
- Excess or Umbrella Liability - \$1,000,000

Colleton County will be named as an “additional insured” party

**Other Conditions**

- Anti-Collusion – Under no circumstances shall any prospective Firm, or any person or persons acting for or on behalf of any said prospective Firm, seek to influence or gain the support of any employee of Colleton County favorable to the interest of any prospective Firm or gain the support of any employee of Colleton County against the interest of any prospective Firm. Any such activities shall result in the exclusion of the prospective Firm from consideration by Colleton County.
- Drug Free Work Place – The Firm must have an established drug free workplace program in place.
- OSHA and other safety related requirements – Each Firm shall have an established safety policy to ensure all regulatory safety requirements are met on all field service activities. Colleton County reserves the right to request a copy of such plan.



**Colleton County Procurement Office**  
**Bid: CC-11 New Road Construction**  
**CERTIFICATE OF FAMILIARITY**

The undersigned, having fully familiarized him/her with the information contained within this entire solicitation and applicable amendments, submits the attached response, and other applicable information to the County, which I verify to be true and correct to the best of my knowledge. I further certify that this response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. I agree to abide by all conditions set forth in this solicitation and certify that I have signature authority to bind the company listed herein.

**MINORITY BUSINESS:** Are you a minority business?

▶ **Yes**(\_\_\_ Women-owned / \_\_\_ Disadvantaged) If yes, please submit a copy of your certificate with your response.

▶ **No** .

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Fax Number

**REMITTANCE ADDRESS**

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Authorized Signature (As registered with the IRS)

\_\_\_\_\_  
Address

\_\_\_\_\_  
E-Mail Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Toll Free Number

\_\_\_\_\_  
Federal Tax ID Number

\_\_\_\_\_  
Sales Tax Number

**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**

BID FORM VENTURE PARK ROADWAY FOR COLLETON COUNTY, SOUTH CAROLINA						
CC-11 NEW ROAD CONSTRUCTION						
ITEM NO.	SCDOT BID ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT COST	TOTAL AMOUNT
1	1031000	Mobilization	1.00	LS		\$ -
2	1050800	Construction Stakes, Lines, & Grades	1.00	LS		\$ -
3	1071000	Traffic Control	1.00	LS		\$ -
4	2011001	Clearing & Grubbing	3.32	AC		\$ -
5	2025000	REM.&DISP.OF EXIST ASPH. PVMT.	285.00	SY		\$ -
8	2031000	Unclassified Excavation	3,450.00	CY		\$ -
9	3050108	Graded Agg. Base Course (8" Unif.)	5,892.00	SY		\$ -
10	4010005	Prime Coat	1,768.00	GAL		\$ -
11	N/A	Tack Coat	884.00	Gal		\$ -
12	4020320	Hot Mix Asphalt Intermediate Course Type B (2" Uniform)	310.00	TON		\$ -
13	4030320	Hot Mix Asphalt Surface Course - Type B (2" Uniform)	310.00	TON		\$ -
14	609115B	Pavement Markings (Temporary Paint) - 4" Yellow Solid Lines	2,400.00	LF		\$ -
15	6241074	4" Yellow Solid Lines (Pvt. Edge Lines) - Perm. Pvm. Markings	2,400.00	LF		\$ -
16	7141112	15" RC Pipe Cul. – Class III	52.00	LF		\$ -
17	7141113	18" RC Pipe Cul. – Class III	46.00	LF		\$ -
18	7141114	24" RC Pipe Cul. – Class III	78.00	LF		\$ -
19	7142512	15" R.C. BEV. END SECTN-CL3	1.00	EA		\$ -
20	7142513	18" R.C. BEV. END SECTN-CL3	2.00	EA		\$ -
21	7142514	24" R.C. BEV. END SECTN-CL3	2.00	EA		\$ -
22	7197120	Adjust Manhole	1.00	EA		\$ -
23	N/A	Rip Rap (Class B)	76.00	SY		\$ -
24	8048205	Geotextile for Erosion Control Under Rip Rap (Class 2) Type B	76.00	SY		\$ -
25	8100101	Permanent Cover	2.10	AC		\$ -
26	8100200	Temporary Cover	2.10	AC		\$ -
27	8152007	Sediment Tubes	26.00	LF		\$ -
28	8153000	Silt Fence	3,850.00	LF		\$ -
29	8153090	Repair/Replace Silt Fence	3,850.00	LF		\$ -
30	8154011	Temporary Porous Baffle	150.00	LF		\$ -
31	8154012	Temporary Floating Skimmer	1.00	EA		\$ -
32	8154050	Removal of Silt Retained By Silt Fence	3,850.00	LF		\$ -
33	8156490	Stabilized Construction Entrance	267.00	SY		\$ -
34	N/A	Riprap Filter Berm	1.00	EA		\$ -
35	N/A	Temporary Riser W/ Trash Rack	1.00	EA		\$ -
<b>TOTAL OF BID</b>					<b>\$</b>	<b>-</b>

Project Approach – Please attach an outline and schedule for completing this project.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Address City, State, Zip

\_\_\_\_\_  
Email Address Telephone Number

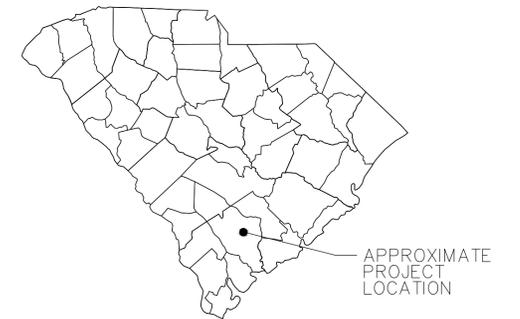
**THIS PAGE MUST BE COMPLETED AND SUBMITTED AS A PART OF YOUR BID**

Z:\2028\2028\2028\0000\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\VENTURE PARK ROAD\2028.DWG 11/7/2013 2:31:33 PM

INDEX OF SHEETS

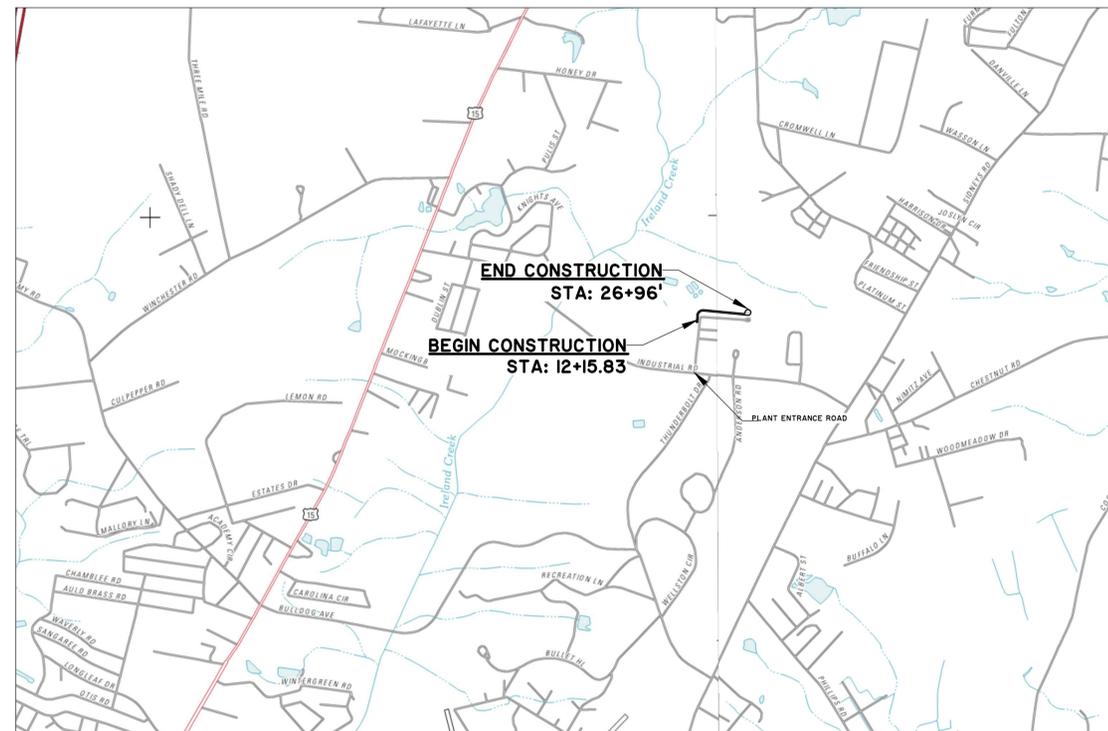
SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
1	COVER SHEET	1
2	GENERAL NOTES AND LEGEND	1
3	EXISTING CONDITIONS & DEMOLITION PLAN	1
4	STORMWATER POLLUTION PREVENTION PLAN	1
5-8	STORMWATER POLLUTION PREVENTION DETAILS	4
9-10	ROAD PLAN AND PROFILE	2
11	ROAD CROSS-SECTIONS	1
12	DRAINAGE PROFILES	1
13-15	DETAILS	3
TOTAL		15

# PROPOSED PLANS FOR ROAD EXTENSION OF VENTURE PARK ROAD COLLETON COUNTY, SOUTH CAROLINA



3 DAYS BEFORE DIGGING IN  
SOUTH CAROLINA  
  
**CALL 811**  
  
PALMETTO UTILITY PROTECTION SERVICES, INC. (PUPS)  
ALL UTILITIES MAY NOT BE A MEMBER OF PUPS.

RAILROAD INVOLVEMENT?  
YES /  NO



LOCATION MAP  
SCALE 1" = 2000'

NET LENGTH OF ROADWAY	0.28	MILES
NET LENGTH OF BRIDGES	N/A	MILES
NET LENGTH OF PROJECT	0.35	MILES
LENGTH OF EXCEPTIONS	N/A	MILES
GROSS LENGTH OF PROJECT	0.35	MILES

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

ENGINEER OF RECORD




FOR CONSTRUCTION : \_\_\_\_\_ DATE \_\_\_\_\_

REVISED: \_\_\_\_\_

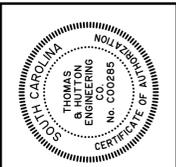
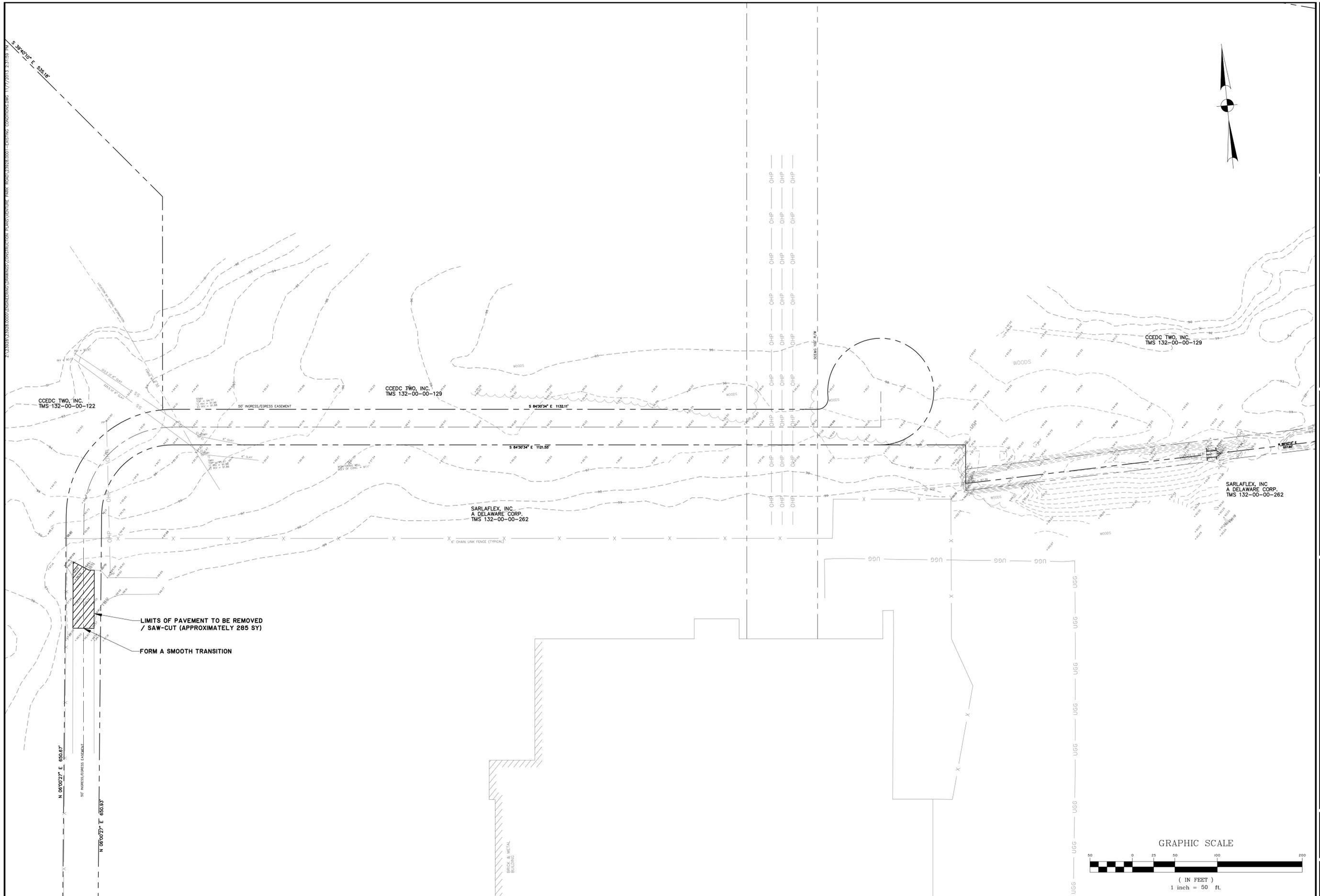
CONSULTING ENGINEERING FIRM

**THOMAS & HUTTON**  
Engineering | Surveying | Planning | GIS | Consulting

1501 Main Street • Suite 760  
PO Box 7608  
Columbia, SC 29202  
p.803.451.6789 f.803.451.6776  
www.thomasandhutton.com

Savannah, GA | Brunswick, GA | Charleston, SC  
| Myrtle Beach, SC | Wilmington, NC



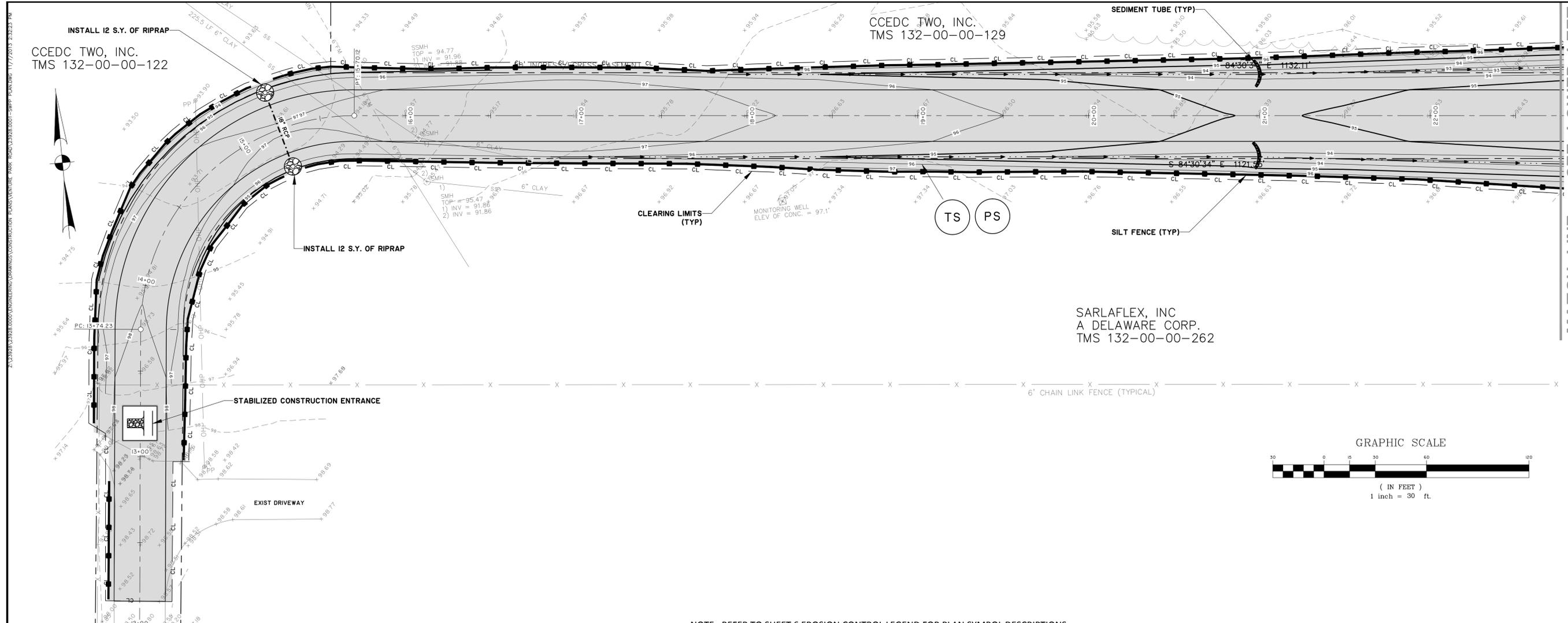


NO.	REVISIONS	BY	DATE

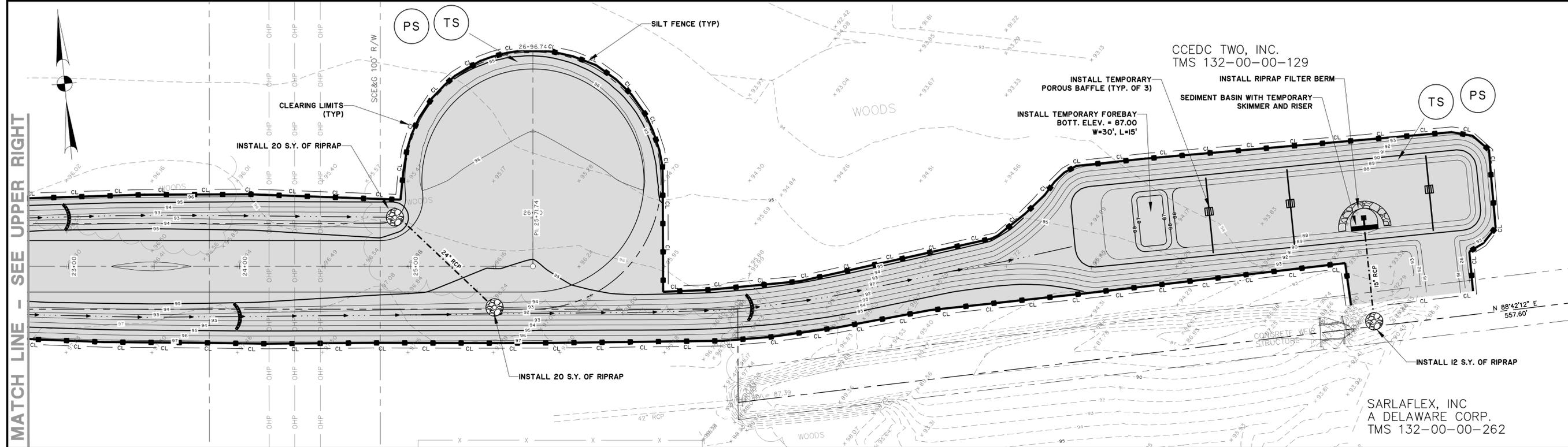
**THOMAS & HUTTON**  
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 Savannah, GA | Wilmington, NC

**COLLETON COUNTY**  
 SOUTH CAROLINA  
 VENTURE PARK ROAD  
**EXISTING CONDITIONS & DEMOLITION PLAN**

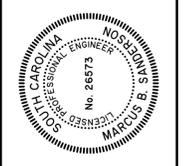
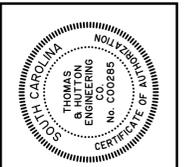
JOB NO: J-23928-0001  
 DATE: 11-06-13  
 DRAWN: CcV  
 DESIGNED: CcV  
 REVIEWED: MBS  
 APPROVED: MBS  
 SCALE: 1" = 60'



NOTE: REFER TO SHEET 6 EROSION CONTROL LEGEND FOR PLAN SYMBOL DESCRIPTIONS.



MATCH LINE - SEE LOWER LEFT



NO.	REVISIONS	BY	DATE

**THOMAS & HUTTON**  
Engineering | Surveying | Planning | GIS | Consulting  
1501 Main Street • Suite 760  
PO Box 7608  
Columbia, SC 29202 • 803.451.6789  
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Savannah, GA | Wilmington, NC

**COLLETON COUNTY**  
SOUTH CAROLINA  
VENTURE PARK ROAD  
STORMWATER POLLUTION PREVENTION PLAN

JOB NO: J-23928-0001  
DATE: 11-04-13  
DRAWN: CcV  
DESIGNED: CcV  
REVIEWED: MBS  
APPROVED: MBS  
SCALE: 1" = 30'



STORMWATER POLLUTION PREVENTION PLAN

TEMPORARY SEEDING - COASTAL													
SPECIES	LABS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40												
RYE, GRAIN	56												
RYEGRASS	50												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	40												
JAPANESE MILLET	40												
RYE, GRAIN	56												
OATS	75												
RYEGRASS	50												

PERMANENT SEEDING - COASTAL													
SPECIES	LABS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
ATLANTIC COASTAL PANICGRASS	PLS												
BROWNTOP MILLET	10												
SWITCHGRASS (ALAMO)	8 PLS												
LITTLE BLUESTEM	4												
SERICA LESPEDeza	20												
BROWNTOP MILLET	10												
WEEPING LOVEGRASS	8												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET	10												
BAHIAGRASS	40												
RYE, GRAIN	10												
BAHIAGRASS	40												
CLOVER, CRIMSON (ANNUAL)	5												
BROWNTOP MILLET	10												
BAHIAGRASS	30												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	10												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
BERMUDA, COMMON	12												
KOBE LESPEDeza (ANNUAL)	10												
BROWNTOP MILLET	10												
BAHIAGRASS	20												
BERMUDA, COMMON	6												
SERICA LESPEDeza	40												
BROWNTOP MILLET	10												
SWITCHGRASS	8												
LITTLE BLUESTEM	PLS												
INDIANGRASS	3												

NOTES:

- ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED  
 1. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER  
 2. IF GRASSING OCCURS DURING A MONTH REQUIRING TEMPORARY COVER, THE CONTRACTOR SHALL APPLY PERMANENT COVER (IN ADDITION TO THE TEMPORARY COVER) AT THE APPROPRIATE TIME AT NO ADDITIONAL COST. THE CONTRACTOR MUST ACHIEVE A STRAND OF PERMANENT GRASS WITH AT LEAST 95% COVER. BARE SPOTS CAN NOT BE MORE THAN 1 INCH SQUARE IN ANY 10 SF.

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
SILT FENCE	
CLEARING LIMITS	
DIVERSION DIKE	
DIVERSION BERM	
TEMPORARY DIVERSION	
PERMANENT DIVERSION	
SUBSURFACE DRAIN	
VEGETATED CHANNEL	
RIP RAP LINED CHANNEL	
ECB OR TRM LINED CHANNEL	
PAVED CHANNEL	
TREE PROTECTION	
SURFACE ROUGHENING	
TOP SOILING	
TEMPORARY SEEDING	
PERMANENT SEEDING	
MULCHING	

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT	
FLEXIBLE GROWTH MATRIX	
BONDED FIBER MATRIX	
SODDING	
SLOPED SODDING	
STAKED SOD	
STAKED SOD AROUND INLET	
RIPRAP	
OUTLET PROTECTION - RIP RAP	
OUTLET PROTECTION - ECB OR TRM	
DUST CONTROL	
POLYACRYLAMIDE (PAM)	
SEDIMENT BASIN	
SEDIMENT BASIN WITH SKIMMER	
SEDIMENT TRAP	
ROCK SEDIMENT DIKE	
SEDIMENT TUBE	

EROSION CONTROL LEGEND

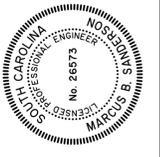
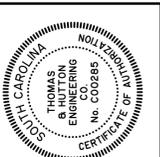
DESCRIPTION	PLAN SYMBOL
ROCK CHECK DAM	
POROUS BAFFLES	
STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT	
STORM DRAIN INLET PROTECTION - TYPE A FILTER FABRIC	
STORM DRAIN INLET PROTECTION - TYPE A SEDIMENT TUBE	
STORM DRAIN INLET PROTECTION - TYPE B HARDWARE FABRIC AND STONE	
STORM DRAIN INLET PROTECTION - TYPE C BLOCK AND GRAVEL	
STORM DRAIN INLET PROTECTION - TYPE D RIGID INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE E SURFACE COURSE CURB INLET FILTER	
STORM DRAIN INLET PROTECTION - TYPE F INLET TUBE	
STORM DRAIN INLET PROTECTION - TYPE G IMPERVIOUS AREA	
PIPE SLOPE DRAINS	
TEMPORARY STREAM CROSSING	
LEVEL SPREADER	

LIST OF ACRONYMS FOR SEDIMENT AND EROSION CONTROL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AMD	ACRYLAMIDE POLYMER
BFM	BONDED FIBER MATRIX
BMP(S)	BEST MANAGEMENT PRACTICE(S)
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
DHEC	DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
ECB	EROSION CONTROL BLANKET
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPSC	EROSION PREVENTION AND SEDIMENTATION CONTROL
FDA	UNITED STATES FOOD AND DRUG ADMINISTRATION
FGM	FLEXIBLE GROWTH MATRIX
HDPE	HIGH DENSITY POLYETHYLENE
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM
MSDS	MATERIAL SAFETY DATA SHEETS
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
PAM	POLYACRYLAMIDE OR POLYMER
RCP	REINFORCED CONCRETE PIPE
SCS	SOIL CONSERVATION SERVICE
SWPPP	STORMWATER POLLUTION PREVENTION PROGRAM
TRM	TURF REINFORCEMENT MAT
VFS	VEGETATED FILTER STRIP

CONSTRUCTION SEQUENCE

1. RECEIVE NPDES COVERAGE FROM SCDHEC.
2. HOLD ON-SITE PRE-CONSTRUCTION MEETING.
3. NOTIFY DHEC REGIONAL OFFICE 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
4. CLEAR & GRUB ENTIRE ROAD R.O.W. AND SEDIMENT BASIN AS INDICATED ON PLANS. GRUB ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS WITHIN LIMITS OF CLEARING (CL).
5. INSTALL PERIMETER CONTROLS (E.G. SILT FENCE).
6. AS TOPSOIL IS REMOVED, STOCKPILE TOPSOIL AT LOCATION DETERMINED AT PRE-CONSTRUCTION MEETING. ALL STOCKPILES AND STAGING AREAS SHALL HAVE SILT FENCING AROUND THEIR PERIMETER AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING SITE.
7. INSTALL SEDIMENT BASIN AND STORMWATER CONTROLS.
8. PERFORM ROADWAY GRADING OPERATIONS.
9. INSTALL STORM DRAINAGE PIPING IN CONJUNCTION WITH ROADWAY GRADING.
10. CONSTRUCT NEW ROADWAY IMPROVEMENTS.
11. APPLY TOPSOIL AND INITIATE VEGETATIVE STABILIZATION MEASURES AS FINAL GRADE IS REACHED.
12. INSPECT AND MAINTAIN ALL STORMWATER CONTROLS. MAINTAIN CLEANOUT DEPTH IN SEDIMENT BASIN (POND) UNTIL SITE IS STABILIZED.
13. REMOVE TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AND ESTABLISH FINAL GRADE AFTER ENTIRE AREA DRAINING TO THE CONTROLS IS FINALLY STABILIZED UPON DIRECTION OF COUNTY.
14. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC AS APPROPRIATE (BY ENGINEER).
15. CONTINUE MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.



NO.	REVISIONS	BY	DATE

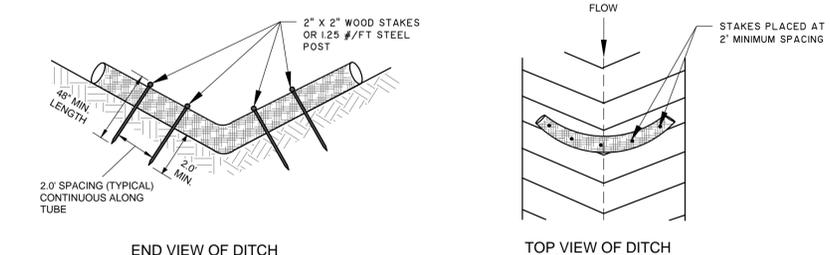
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STORMWATER POLLUTION PREVENTION DETAILS



**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.

SEDIMENT TUBE SPACING	
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

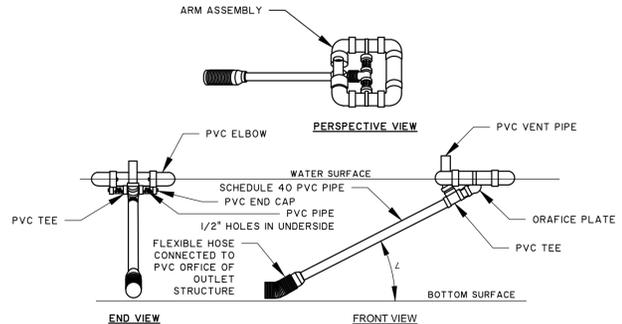
SEDIMENT TUBE LENGTH SELECTED SHOULD MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE DRAINAGE CONVEYANCE. IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15 FOOT SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10 FOOT SEDIMENT TUBES.

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:**  
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).

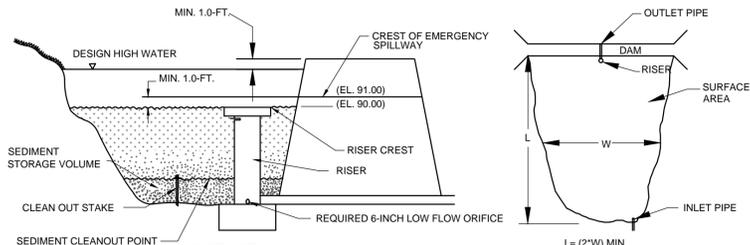
ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO REMOVING SEDIMENT TUBES.  
SEDIMENT TUBE REMOVAL SHOULD BE COMPLETED ONLY AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH GRAVEL, STONE, SEDIMENT TUBES, OR OTHER MATERIALS HAVE BEEN REMOVED.



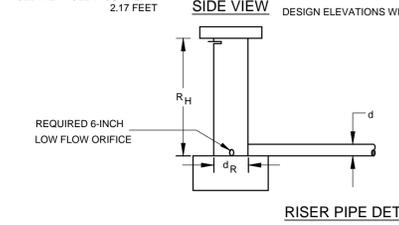
**NOTES:**  
1. CONTRACTOR TO REMOVE SKIMMER UPON STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA AND INSTALL PERMANENT PVC ORFICE PER OUTLET STRUCTURE DETAILS.

DESIGN CRITERIA				
POND NUMBER	SKIMMER SIZE (IN)	ORFICE RADIUS (IN)	ORFICE DIA. (IN)	VOLUME (CF) *
1	3	1.3	2.6	21,353

\*SKIMMER SIZE IS BASED ON THE VOLUME OF THE NEXT HIGHEST WEIR ELEVATION ABOVE NORMAL POOL WHICH IS GREATER THAN THE REQUIRED SEDIMENT BASIN VOLUME.



DESIGN ELEVATIONS WITH REQUIRED EMERGENCY SPILLWAY	
R <sub>H</sub> = RISER HEIGHT	2.67
d <sub>R</sub> = RISER DIAMETER	24"
d <sub>h</sub> = ORFICE DIAMETER	N/A
x = ORFICE SPACING	N/A
d = OUTLET PIPE DIAMETER	15"



RISER PIPE DETAIL

**WHEN AND WHERE TO USE IT:**  
SEDIMENT BASINS SHALL NOT BE PLACED IN WATERS OF THE STATE OR USGS BLUE-LINE STREAMS.

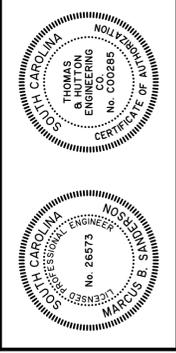
**INSPECTION AND MAINTENANCE:**  
CONTRACTOR SHALL PROVIDE CONTINUED MONITORING, REGULAR MAINTENANCE AND REGULAR SEDIMENT REMOVAL.

REMOVE SEDIMENT WHEN IT REACHES 50% OF STORAGE VOLUME OR THE TOP OF THE CLEANOUT STAKE.

ALL TEMPORARY SEDIMENT BASINS SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER IT IS NO LONGER NEEDED AT NO ADDITIONAL COST.

TRAPPED SEDIMENT SHOULD BE REMOVED FROM, OR STABILIZED ON SITE.

DISTURBED AREAS RESULTING FROM THE REMOVAL OF THE SEDIMENT BASIN SHOULD BE PERMANENTLY STABILIZED.

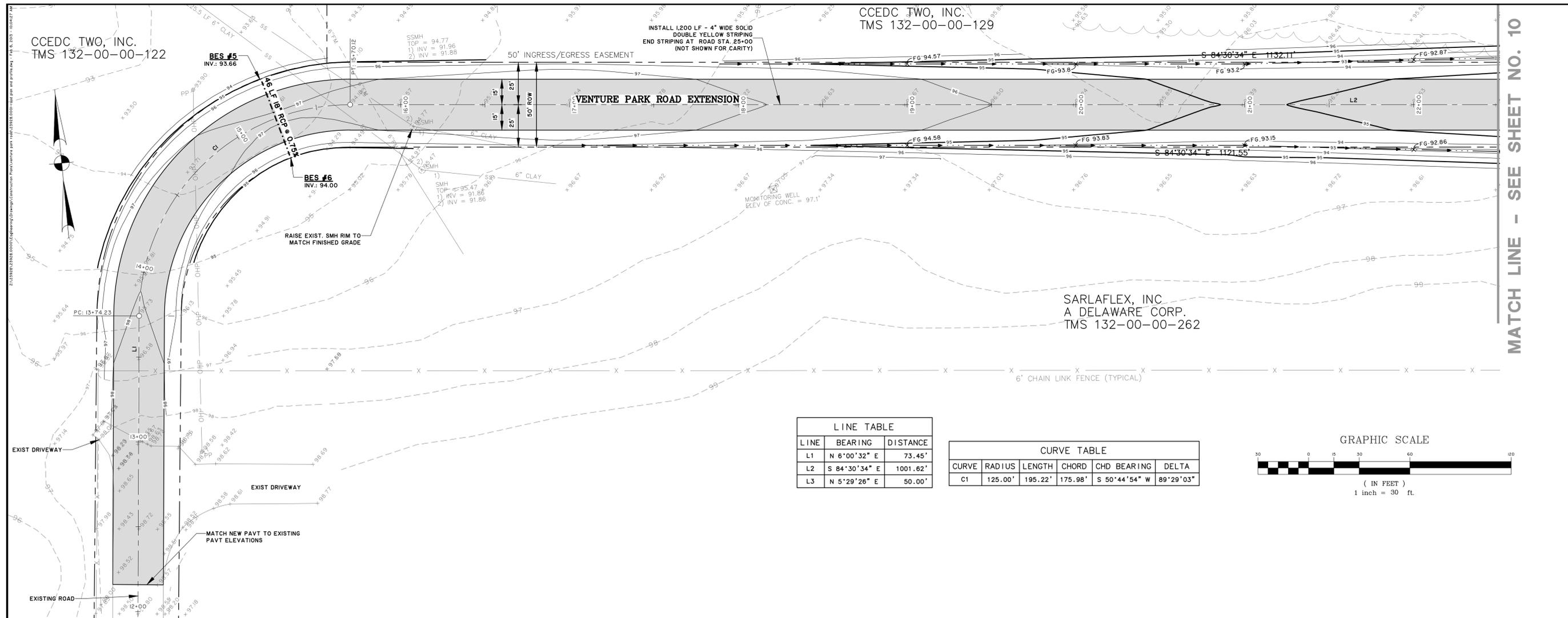


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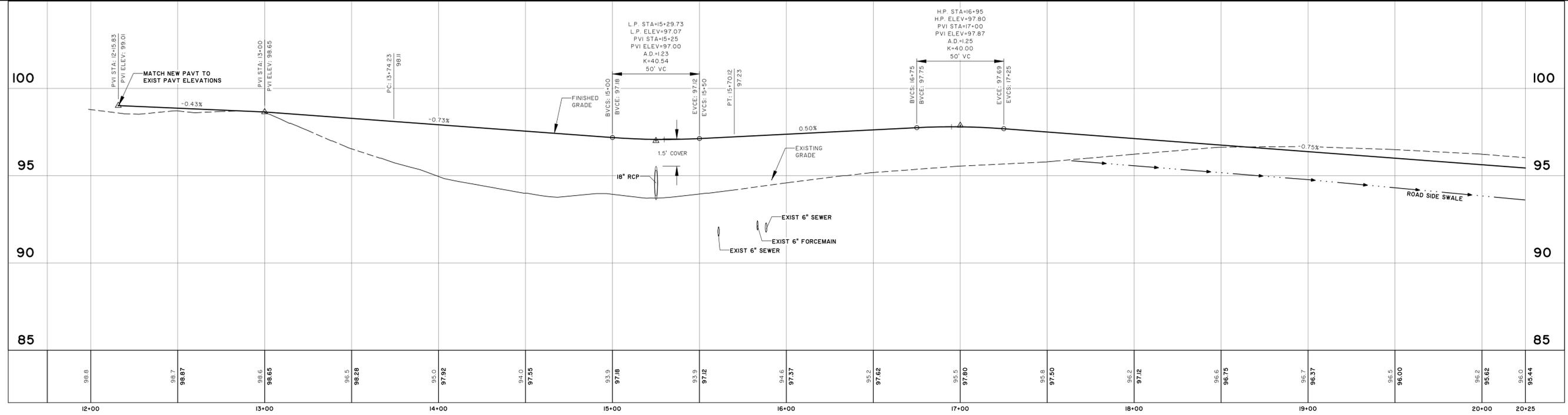
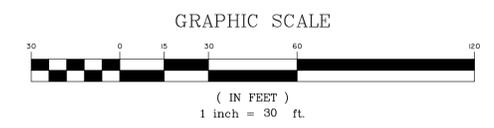
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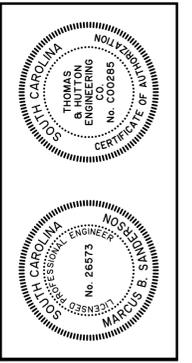
MATCH LINE - SEE SHEET NO. 10

LINE	BEARING	DISTANCE
L1	N 6°00'32" E	73.45'
L2	S 84°30'34" E	1001.62'
L3	N 5°29'26" E	50.00'

CURVE	RADIUS	LENGTH	CHORD	CHD BEARING	DELTA
C1	125.00'	195.22'	175.98'	S 50°44'54" W	89°29'03"



**VENTURE PARK ROAD EXTENSION**  
 STATIONS: 11+75 - 20+25  
 SCALE: HORZ.: 1" = 30'  
 VERT.: 1" = 3'



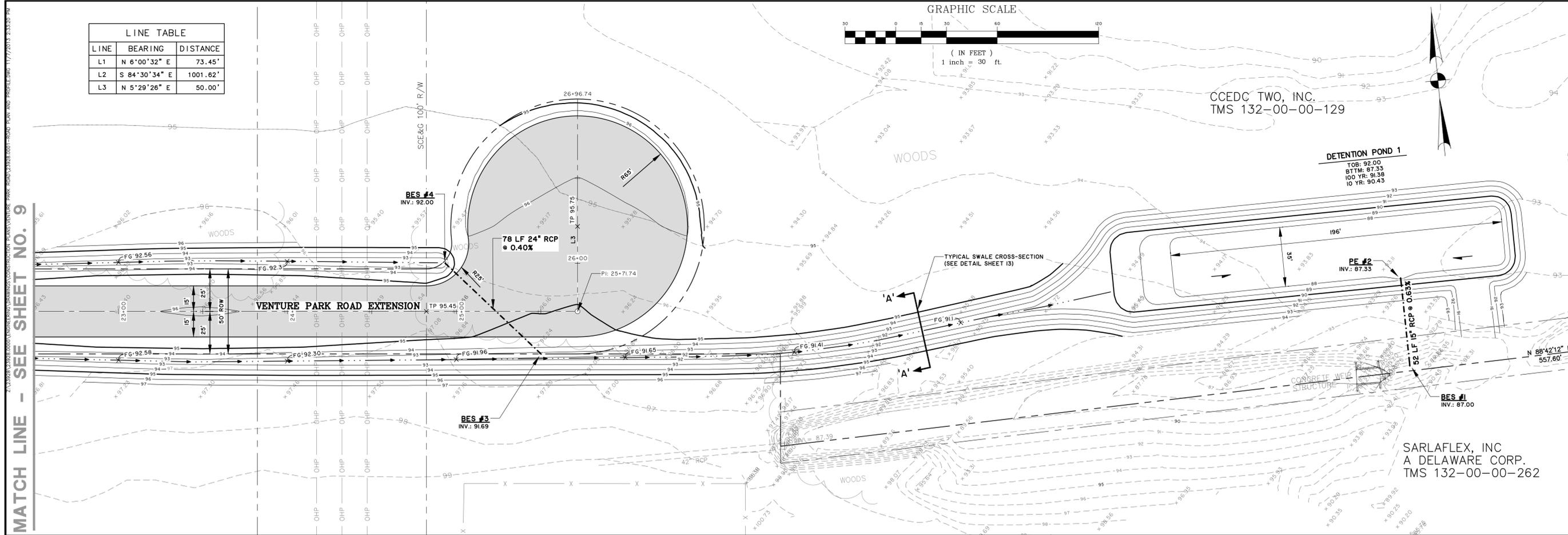
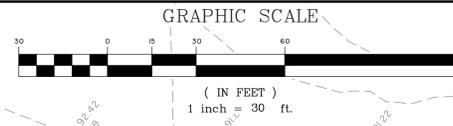
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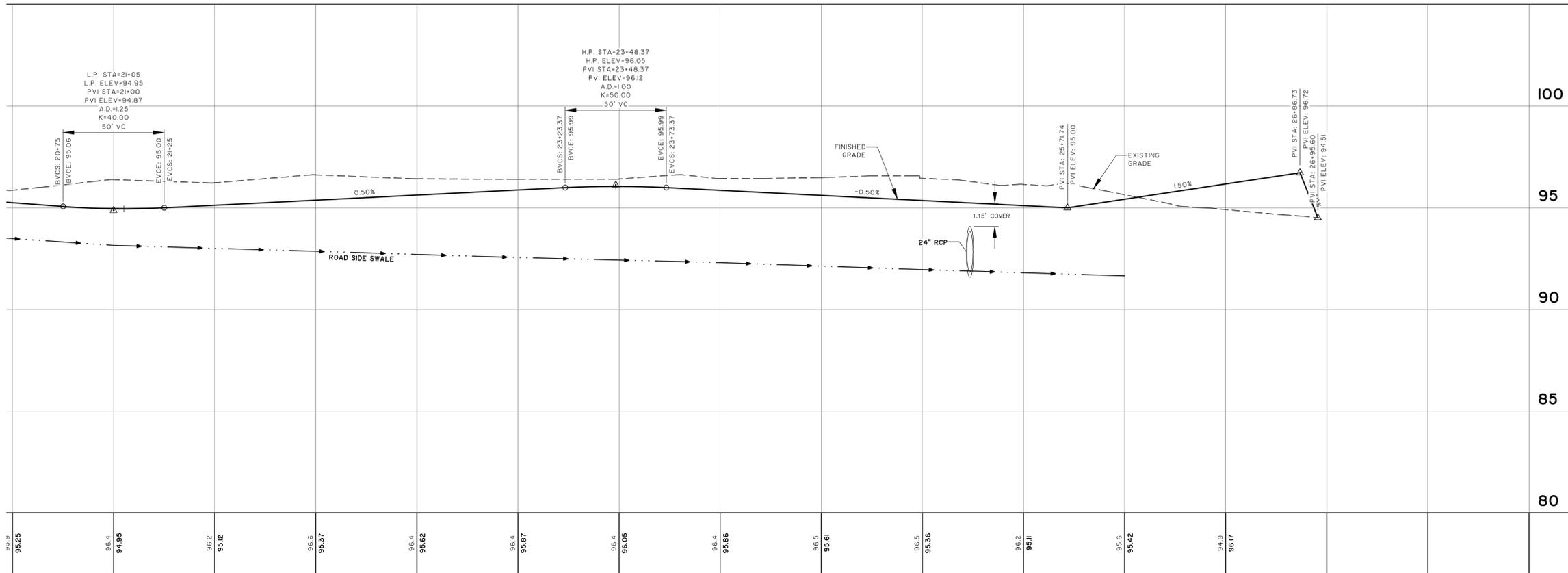
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**VENTURE PARK ROAD**  
**ROAD PLAN AND PROFILE**

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 SCALE: AS NOTED

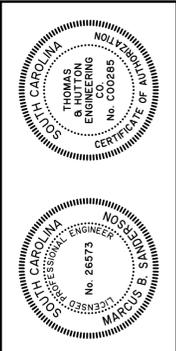
LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 6°00'32" E	73.45'
L2	S 84°30'34" E	1001.82'
L3	N 5°29'26" E	50.00'



MATCH LINE - SEE SHEET NO. 9



**VENTURE PARK ROAD EXTENSION**  
 STATIONS: 20+00 - 28+00  
 SCALE: HORZ.: 1" = 30'  
 VERT.: 1" = 3'



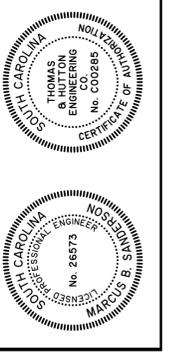
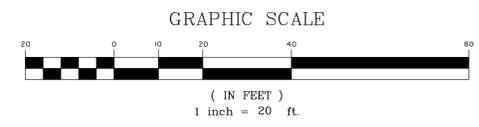
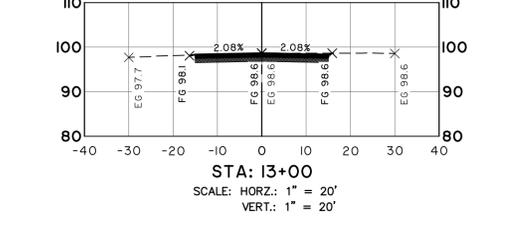
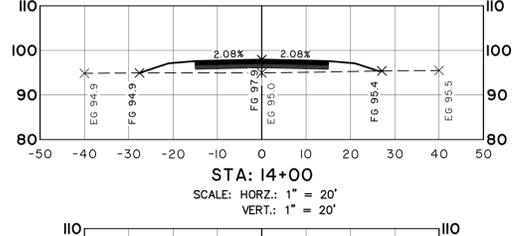
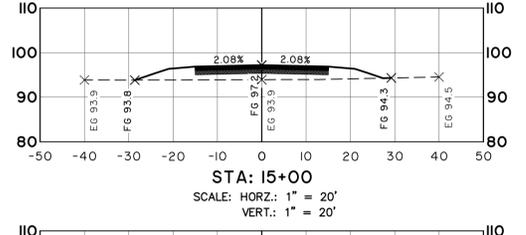
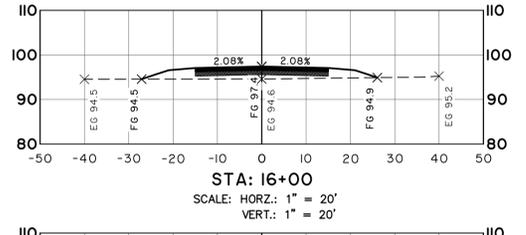
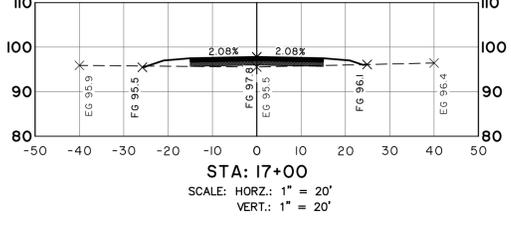
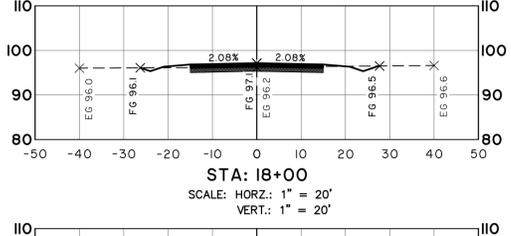
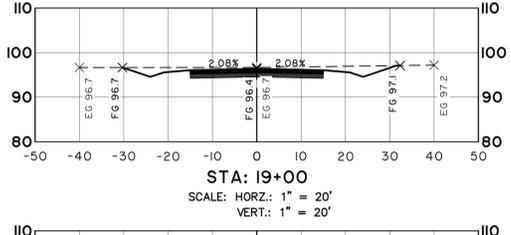
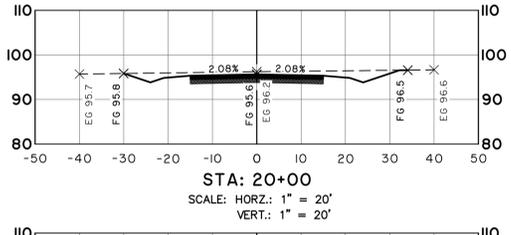
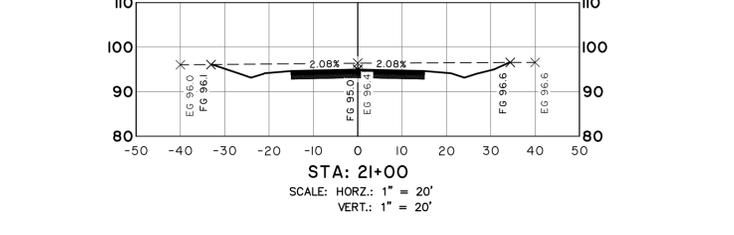
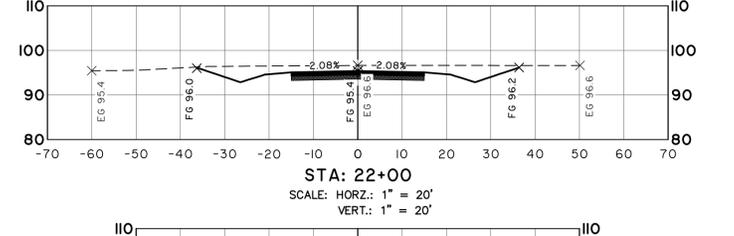
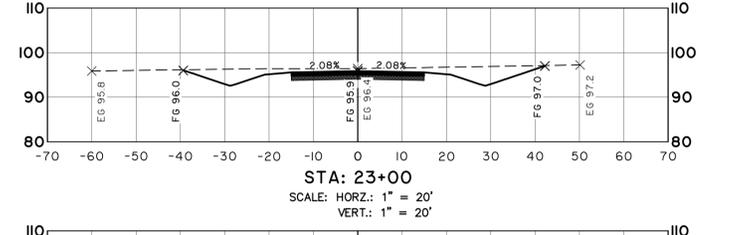
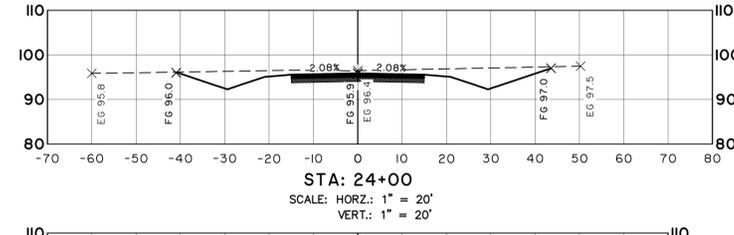
NO.	REVISIONS	BY	DATE

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**COLLETON COUNTY**  
 SOUTH CAROLINA  
**VENTURE PARK ROAD**  
**ROAD PLAN AND PROFILE**

JOB NO:	J-23928-0001
DATE:	11-06-13
DRAWN:	CvV
DESIGNED:	CvV
REVIEWED:	MBS
APPROVED:	MBS
SCALE:	AS NOTED

Z:\23928\23928-000\CONSTRUCTION\DRAWINGS\CONSTRUCTION\ROAD\VENTURE PARK ROAD\23928-0001 - ROAD CROSS-SECTIONS.DWG 11/22/2015 2:33:57 PM



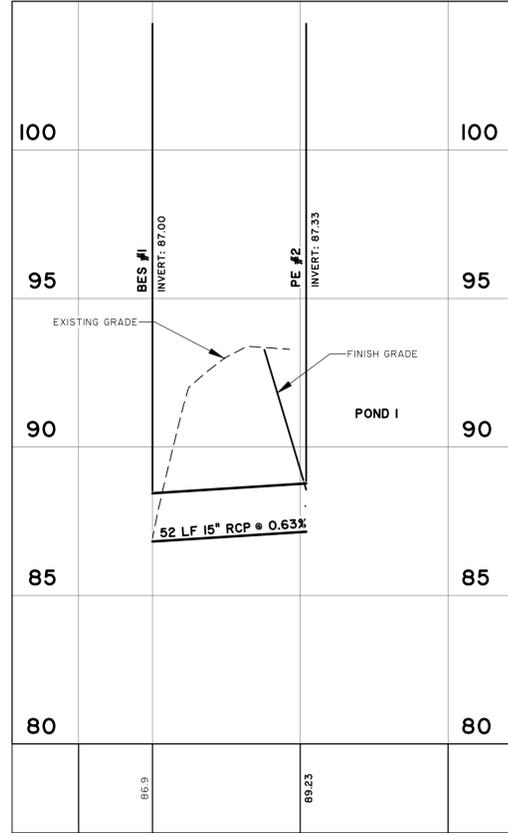
NO.	REVISIONS	BY	DATE

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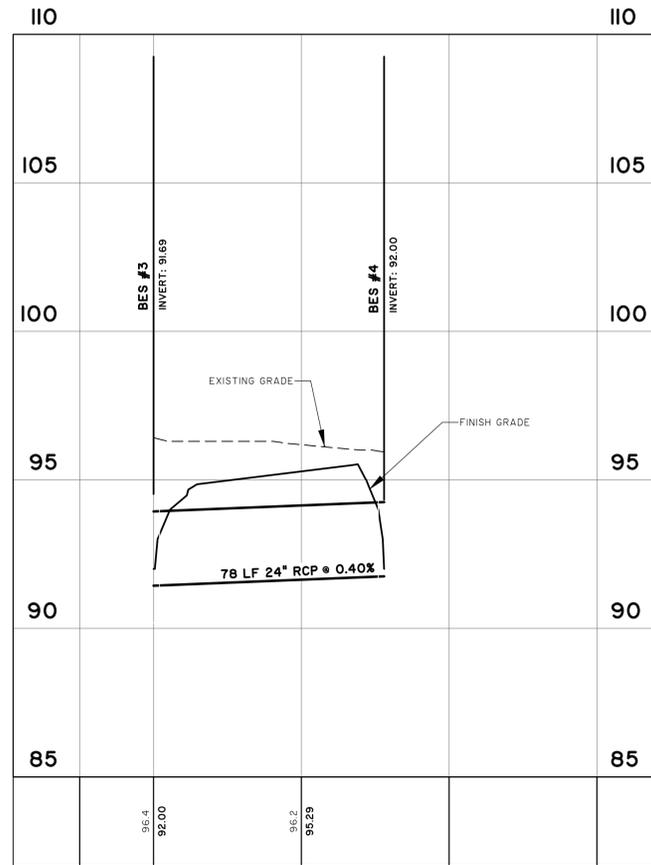
**COLLETON COUNTY**  
SOUTH CAROLINA  
**VENTURE PARK ROAD**  
**ROAD CROSS-SECTIONS**

JOB NO:	J-23928-0001
DATE:	11-06-13
DRAWN:	CcV
DESIGNED:	CcV
REVIEWED:	MBS
APPROVED:	MBS
SCALE:	AS NOTED

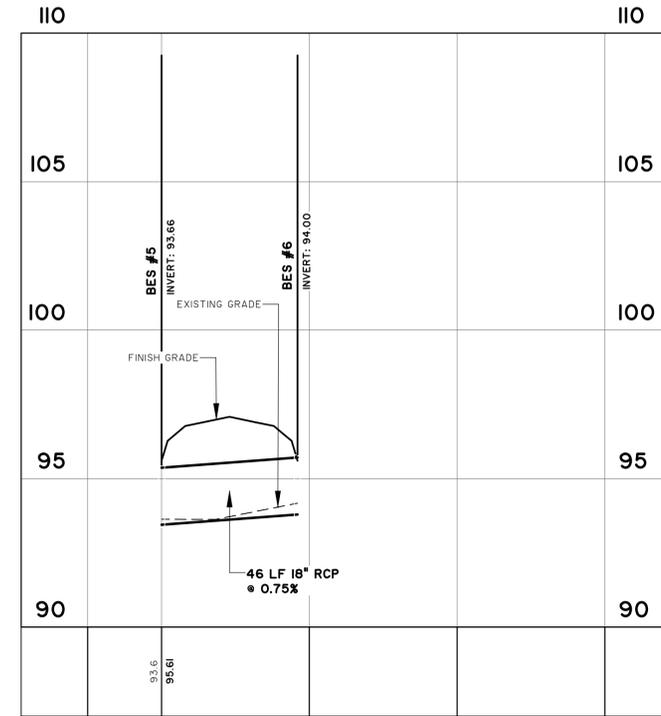
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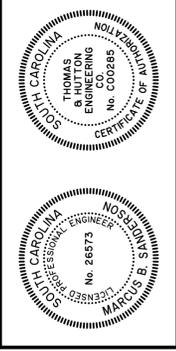
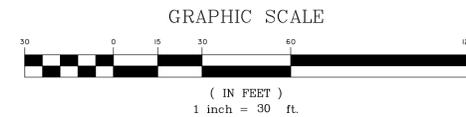
**DRAINAGE - RUN 1**  
 STATIONS: -0+25 - 1+00  
 SCALE: HORZ.: 1" = 30'  
 VERT.: 1" = 3'



**DRAINAGE - RUN 2**  
 STATIONS: -0+25 - 1+50  
 SCALE: HORZ.: 1" = 30'  
 VERT.: 1" = 3'



**DRAINAGE - RUN 3**  
 STATIONS: -0+25 - 1+50  
 SCALE: HORZ.: 1" = 30'  
 VERT.: 1" = 3'



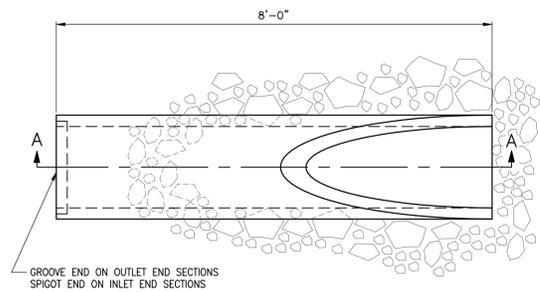
NO.	REVISIONS	BY	DATE

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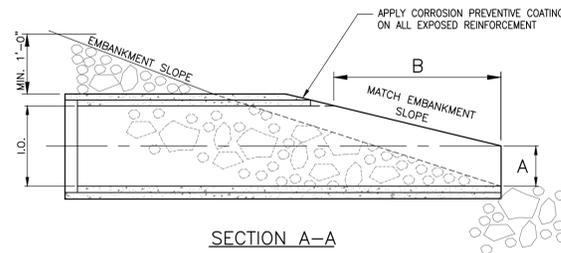
**COLLETON COUNTY**  
 SOUTH CAROLINA  
 VENTURE PARK ROAD  
 DRAINAGE PROFILES

JOB NO:	J-23928-0001
DATE:	11-06-13
DRAWN:	Cov
DESIGNED:	Cov
REVIEWED:	MBS
APPROVED:	MBS
SCALE:	AS NOTED

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PLAN



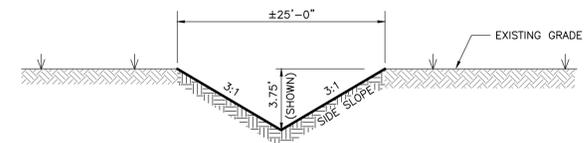
SECTION A-A

I.D. (IN)	A (IN)	EMBANKMENT SLOPE	
		4:1	3:1
15	6	36	27
18	9	36	27
24	10	56	42

REFERENCE: SCDOT STD. DETAIL 719-610-00

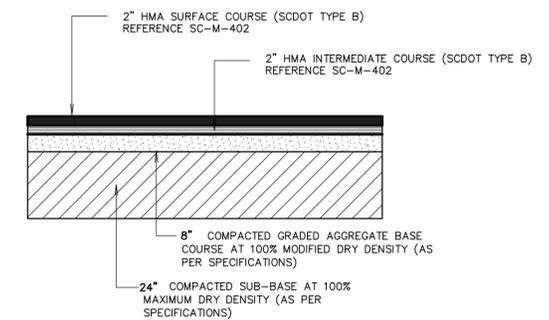
BEVELED END SECTION (BES)

NOT TO SCALE



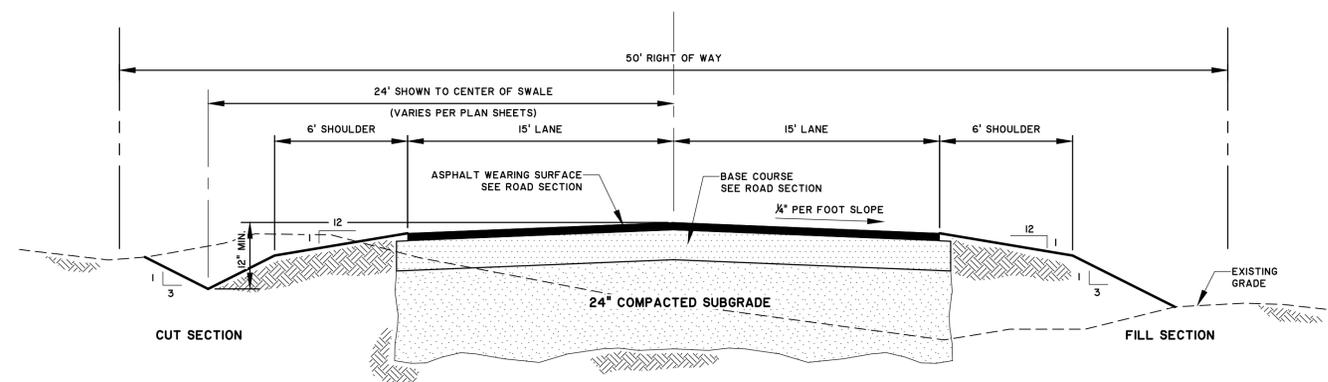
TYPICAL SWALE SECTION

NOT TO SCALE



PAVEMENT SECTION

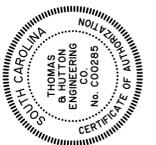
NOT TO SCALE



TYPICAL ROAD SECTION WITH ROAD SIDE SWALES

NOT TO SCALE

NOTE: REFER TO PLAN SHEETS 9 & 10 FOR ROAD SIDE SWALE DEPTHS (VARIES).



NO.	REVISIONS	BY	DATE
1	UPDATED SPEC PAVT SECT PER GEOTECH REPORT	CFM	10-05-13

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**COLLETON COUNTY**  
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REVIEWED:	MBS
APPROVED:	MBS
SCALE:	1" = 1'

**REFERENCES**

**NATIONAL DOCUMENTS**

**SCDOT DOCUMENTS**

SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-714  
ENGINEERING DIRECTIVE MEMORANDUM 24  
INSTRUCTIONAL BULLETIN 2010-01

**RELATED DRAWINGS & KEYWORDS**

714-105-00  
714-110-00  
714-505-00  
714-010-00

**PRECONSTRUCTION SUPPORT ENGINEER**



*[Signature]*  
SIGNATURE

APRIL 30, 2010  
DATE

#	DATE	CHK	DESCRIPTION
3/2010	JBH	DET3 CD	
3/2009	HJC	DET4 COMPACTION NOTES	
7/2008	HJC	GENERAL REVISIONS	
3/2008	DSO	NEW STANDARD	



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
ROOM 405  
COLUMBIA, SC 29201

**STANDARD DRAWING**

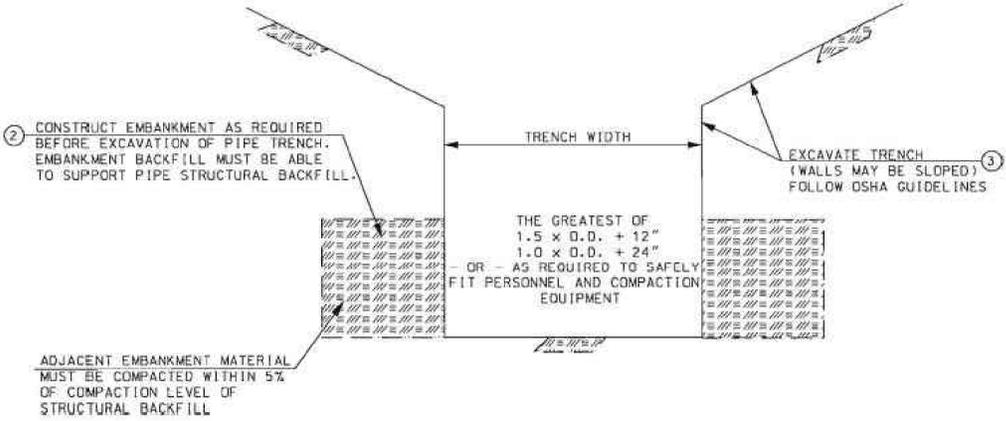
PIPE CULVERTS  
(PIPE TRENCH  
PREPARATION)

714-005-00

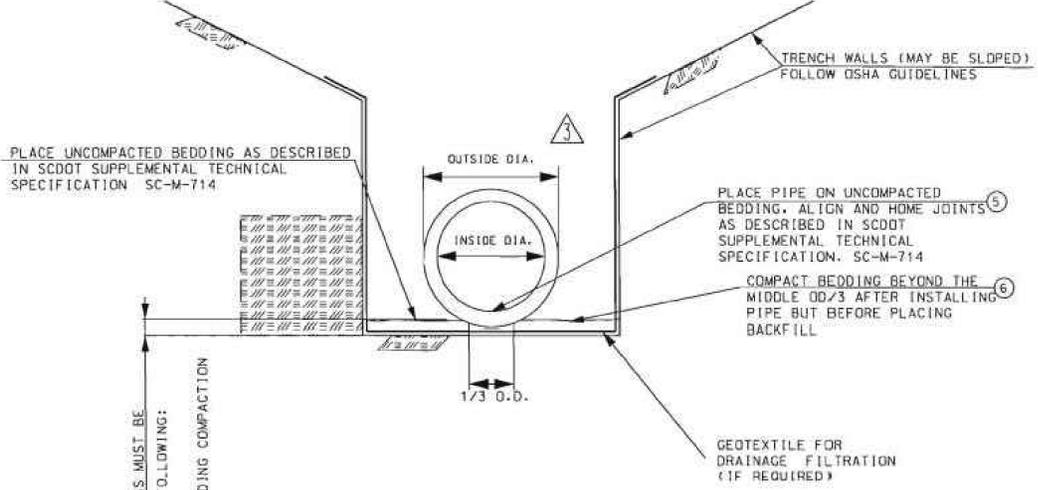
EFFECTIVE LETTING DATE | JANUARY 2011 | THIS DRAWING IS NOT TO SCALE

① ALL PIPE REQUIRE GOOD FOUNDATION MATERIAL. WHEN SITE SOILS REQUIRE THE INSTALLATION OF AN IMPROVED PIPE FOUNDATION, FOLLOW SCDOT STANDARD DRAWING 714-020-000.

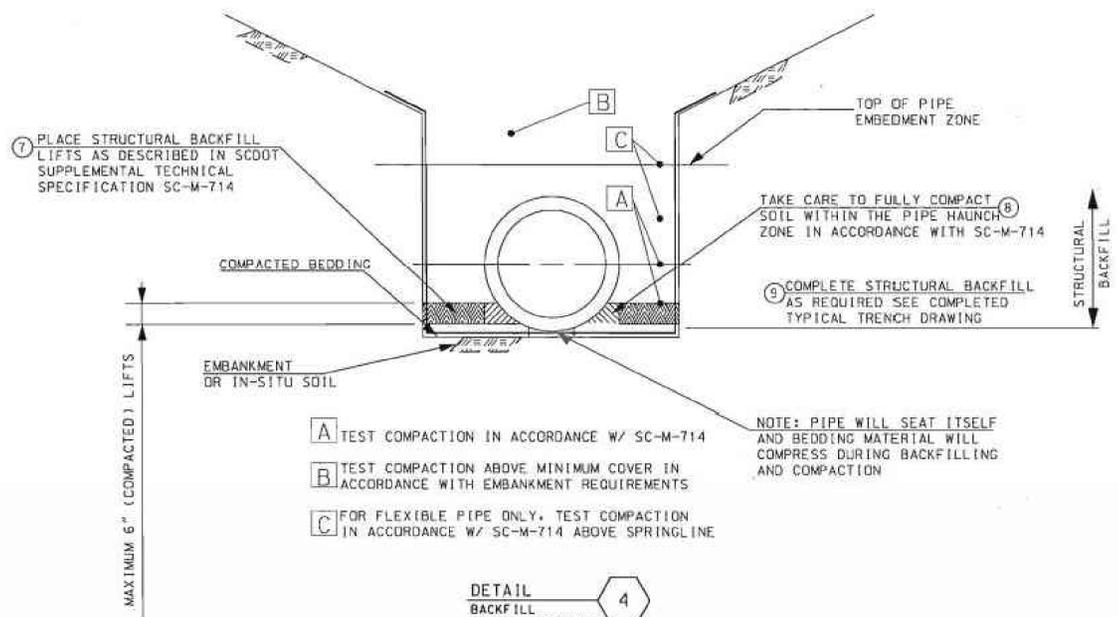
DETAIL FOUNDATION REQUIREMENTS ①



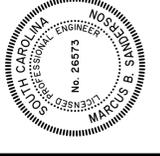
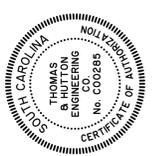
DETAIL TRENCH PREPARATION W/ NO IMPROVED FOUNDATION WORK ②



DETAIL BEDDING AND INSTALLATION W/ NO IMPROVED FOUNDATION WORK ③



DETAIL BACKFILL INSTALLATION W/ NO IMPROVED FOUNDATION WORK ④



NO.	REVISIONS	BY	DATE

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