



ADDENDUM: ONE  
 ISSUE DATE: November 15, 2017  
 PROJECT TITLE: **INDEFINITE DELIVERY CONTRACT FOR SITE CONSTRUCTION SERVICES**  
 Francis Marion University  
 IDC Project No.: H18-D074-PD

Representative Project:  
**GAC ENTRY ROAD DRAINAGE PROJECT**  
**Francis Marion University**  
 IDC Project No.: H18-N070-PD

FROM: DDC Engineers, Inc.  
 James M. Wooten, PE  
 1298 Professional Drive, Myrtle Beach, SC 29577  
 sch@landartcompany.com

TO: Plan Holders via FMU website  
<http://www.fmarion.edu/facilitiesmanagement>

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This Addendum is issued to clarify and revise the Bidding Documents which have been previously issued.

Addenda are issued prior to execution of Contract. All instructions contained herein shall be reflected in the Contract Sum and this Addendum will be made a part of the Contract Documents, if, as, and when a Construction Contract is awarded.

This Addendum forms a part of the Contract Documents and modifies the original documents dated September 28, 2017 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so will subject the Bidder to disqualification.

This Addendum consists of (12) Pages and the following attachments:

- Revised Sheet DEMO-1. . . . . 1 page
- Revised Sheet HSCP-1. . . . . 1 page
- Pre-Bid Conference Memorandum and Sign-In Sheet . . . . . 4 pages
- SECTION 02460 - THERMOPLASTIC PAVEMENT MARKINGS . . . . . 4 pages

**A. NON-MANDATORY PRE-BID CONFERENCE:**

1. See attached Pre-Bid Conference Memorandum and Pre-Bid Sign In sheet for list of attendees and items discussed at Pre-Bid Conference held November 9, 2017.

Consulting Engineers  
 Surveyors  
 Land Planners  
 Landscape Architects  
 Environmentalists

1298 Professional Drive  
 Myrtle Beach  
 South Carolina 29577  
 P 843.692.3200  
 F 843.692.3210

**B. REVISIONS TO THE PROJECT MANUAL:**

1. SE-685 – GENERAL CONDITIONS: a. Item 3.9 – USE OF SITE, Add the following subparagraphs: “1. Contractor will phase work such that the ticket booth and front gate to the complex to be kept accessible at all times for pedestrian and vehicular traffic.”

- C. Does concrete need to be provided on both sides of the trench drain?

*Answer: The provided detail on sheet HSCP-2 depicts a monolithic pour surrounding the trench drain.*

- D. Should include recoat entire stamped asphalt area and repaint stripping?

*Answer: Yes, Sheet HSCP-1 has been revised to depict the enlarge area to be repainted and restriped.*

- E. Does the milling extend to the center line of road?

*Answer: The revised sheet DEMO-1 indicates that the milling area is to extend to the center line of the existing road.*

- F. Should the new asphalt area match existing asphalt stamp pattern?

*Answer: The repaved area shall match the existing stamp pattern.*

- G. When is the construction duration to occur?

*Answer: Tentative commencement on or about 12/6/17.*

- H. When was the original stamping completed and by which contractor?

*Answer: 2011, contractor Martin Engineering, INC., White Rock, SC.*

- I. Revise SC SCBO volume 37, issue 204 dated 10/24/17 FMU IDC Construction posting as follows:

- a. Description of Construction Services: change CP, GD (group #3 minimum) to CP and/or AP (group #3 minimum) and GD (group #3 minimum)

END OF ADDENDUM ONE

# DDC



## PRE-BID MEMORANDUM

MEETING DATE: November 9, 2017

PROJECT TITLE: **INDEFINITE DELIVERY CONTRACT FOR SITE CONSTRUCTION SERVICES**  
Francis Marion University  
IDC Project No.: H18-D074-PD

Representative Project:  
**GAC ENTRY ROAD DRAINAGE PROJECT**  
Francis Marion University  
IDC Project No.: H18-N070-PD

FROM: DDC Engineers, Inc.  
Sean Hoelscher, AIA  
1298 Professional Drive  
Myrtle Beach, SC 29577  
sch@landartcompany.com

TO: All Attending All Bidders & Plan Holders via FMU website  
<http://www.fmarion.edu/facilitiesmanagement/>

ATTENDING: See attached sign-in sheet.

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On November 9, 2017, a Non-Mandatory Pre-Bid meeting was held at the project site for the above-referenced project. Joe Bace, Project Manager with FMU Facilities led the meeting and the following items were discussed:

### BIDDING INFORMATION

1. This bid advertisement is for an Indefinite Delivery Contract for Site Construction Services, and the GAC Entry Road Drainage Project will be the first IDC site project constructed under this contract. Selection of IDC site contractor will be based on the lowest responsive bids for this work.
2. Representative Project – GAC Entry Road Drainage Project includes demolition and removal of existing asphalt and install new drainage.
3. All responses to questions and requests will be made in the form of written addenda to the bid documents. Statements made by the A/E, agency and/or the OSE representative are for the sole purpose of calling the bidders' attention to items of importance in the Bid Documents. It is the bidders' responsibility to read and review all of the Bid Documents, including addenda.

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Surveyors  
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www.ddcinc.com

4. Bids are due on Tuesday, November 28, 2017 at 3:00 PM. Bids will be opened in the FMU Physical Plant conference room, and the clock outside the room is the official time. Bids received after 3:00 pm will not be opened and will be returned unopened. If bids are mailed or hand delivered to the agency per the instructions in the bid advertisement the words "Bid Enclosed" should be noted on the outside of the envelope to avoid the envelope being opened prior to the bid closing time.
5. The agency may award up to Five (5) Indefinite Delivery Site Construction Services Contracts, provided adequate number of responsive and responsible bids are received. IDC Contract date is two years and awarded work for the contract period may not exceed \$1,000,000. Work awarded for each IDC project shall not exceed \$250,000. Future IDC projects will be bid to the selected IDC Contractors, using the forms included in this project manual.
6. Contract used for this IDC contract will be the SE-680 "Construction Services Indefinite Delivery Contract" included in the project manual, and the SE-685 "General Conditions to Construction Services Indefinite Delivery Contract" forms part of the contract documents.
7. Contractors must be properly licensed for the project in accordance with the SC Contractor's licensing law. Check with the SC Dept. of Labor Licensing and Regulation (LLR) if you have any questions regarding license status or requirements.
8. Contractors are required to have the following licenses: CP (Group 3 minimum) and GD (Group 3 minimum) See Page 2, I.
9. Successful bidder of each IDC project will be required to furnish performance and payment each in the amount of 100% of the contract if project construction contract work is more than \$50,000.
10. SE-659 "Construction Services Indefinite Delivery Contract Representative Project Bid Form" included in the Project Manual shall be used for all bids.
11. Bidders should review the SE-656 "Instructions to Bidders for Construction Services Indefinite Delivery Contract" for instructions regarding the bid – but the following items required for a responsive were pointed out: a) All addenda to be acknowledged. b) Bid number to be written in figures only. c) A bid security of a minimum of 5% of the base bid is required to be included with bids. d) License information to be provided as noted – CP (Group 3 minimum) and GD (Group 3 minimum). e) Bid form must be signed. See Page 2, I.
12. Substitution requests and questions must be received by Joe Bace (jbace@fmarion.edu) or Sean Hoelscher (sch@landartcompany.com) by midnight on Monday, November 20, 2017, to allow substitution approvals and answers to be issued by addenda.
13. Wednesday, November 22, 2017 at 3:00 pm is the latest time for Addenda to be issued, except to change the date of the bid.
14. Addenda will be posted on the Owner's website, where the plans and specifications are available as well: <http://www.fmarion.edu/facilitiesmanagement/>

15. Contract Time and Liquidated Damages requirements: a) Contract time for GAC Entry Road Drainage Project is 60 days, and includes time for alternates. b) Liquidated damages are \$100.00 per day for each day time to substantial completion is exceeded. c) 30 Days allowed after Substantial Completion for Final Completion.

**END OF MEMORANDUM**

Attachment: Pre-bid Conference sign-in sheet, November 9, 2017.



## SECTION 02460 - THERMOPLASTIC PAVEMENT MARKINGS

### PART I GENERAL

#### 1.01 SECTION INCLUDES

- A. Application of permanent thermoplastic reflectorized pavement marking materials.

#### 1.02 RELATED SECTIONS

- A. Section 02400 - Asphaltic Concrete Pavement.

#### 1.03 REFERENCES

- A. SCDOT SS - South Carolina Department of Transportation Standard Specifications, 2000 Edition.
- B. Federal Highway Administration - Manual on Uniform Traffic Control.
- C. Devices (MUTCD), Millennium Edition.

### PART 2 PRODUCTS

#### 2.01 MATERIALS

- A. Thermoplastic Compound: AASHTO M 249 with the following adjustments:
  - 1. The material may be shipped in the granulated form rather than the block form.
  - 2. For longitudinal long line and channelization markings, the material may be either hydrocarbon or Alkyd based.
  - 3. All handwork consisting of stopbars, crosswalks, legends and symbols shall be Alkyd Based Material only.
- B. Glass Beads: AASHTO M 247 - Type 1.
- C. Primer-Sealer: A primer-sealer as recommended by the manufacturer of the thermoplastic pavement marking material shall be utilized on all Portland Cement pavement surfaces and all bridge surfaces that have not been overlaid with asphalt. The primer-sealer also shall be utilized on any type of pavement prior to the placing of Railroad Crossing Symbols. Primer-sealer shall be used on Asphaltic Concrete pavement surfaces if recommended by the manufacturer of the thermoplastic pavement marking material. The primer-sealer shall form a continuous film which will mechanically adhere to the pavement and shall neither discolor nor cause any noticeable change in the pavement outside of the finished pavement markings.

## 2.02 EQUIPMENT

- A. Requirements: AASHTO M 249 and as expanded by SCDOT Standard Specification.

## PART 3 EXECUTION

### 3.01 PREPARATION OF SURFACE

- A. All surfaces to be painted shall be thoroughly cleaned of all dust, dirt, grease, oil, and all other foreign matter before application of the marking paint.
- B. When waterborne paint is utilized, temperatures at the heat exchanger of the paint truck shall not exceed 150E F (66E C). Paint shall not dwell in the exchanger for more than two hours.
- C. The markings shall be straight or of uniform curvature and shall conform uniformly to tangents, curves, and transitions. Symbols shall be of dimensions shown in the MUTCD. Markings must be of the dimensions as shown on the Pavement Marking Plans or as directed by the Engineer. The Contractor shall provide, at his own expense, sufficient control points to serve as guides for the application of markings.

The finished line markings shall be free from waviness and the lateral deviations shall not exceed two (2) inches in fifteen (15) feet. Any greater deviation shall be sufficient cause for requiring the Contractor to remove and correct such markings at his own expense. The Contractor shall also be required to remove and correct, at his expense, any symbol markings not meeting the dimensional requirements shown in the MUTCD.

- D. All longitudinal markings shall be placed with a truck-mounted applicator except when approved by the Engineer. Such a case may occur where the length of a particular marking is too short, or the curvature too great, to permit efficient use of a truck-mounted applicator. Transverse markings may be applied with a portable unit.

Unless otherwise permitted by the Engineer, no markings shall be applied to areas of pavement when any of the following conditions apply:

1. Any moisture or foreign matter is present on the surface.
2. The air temperature is below 50E F (10E C).
3. The relative humidity is above 85 percent.

- E. All markings shall be sufficiently dry before opening to traffic.
- F. The wet film thickness for all markings shall be 15 mils. Place glass beads at a minimum rate of six (6) pounds per gallon of paint.

### 3.02 APPLICATION OF THE PRIMER-SEALER

- A. Where used, the primer-sealer shall be sprayed on the pavement surface where the lines are to be applied. The application thickness and curing time on the pavement prior to thermoplastic application shall be governed by the recommendations of the manufacturer of the primer-sealer.



### 3.03 APPLICATION OF THE MARKING MATERIAL

- A. All longitudinal markings shall be placed with a truck-mounted applicator except when approved by the Engineer. Such a case may occur where the length of a particular marking is too short, or the curvature too great, to permit efficient use of the liner. Transverse markings may be applied with a portable unit.
- B. The markings shall be straight or of uniform curvature and shall conform uniformly with tangents, curves and transitions. Symbols shall be of dimensions shown in the MUTCD. Markings must be of the dimensions and placed as shown on the Pavement Marking Plans. The Contractor shall provide, at his own expense, sufficient control points to serve as guides for the application of markings.
- C. The finished line markings shall be free from waviness and the lateral deviations shall not exceed two (2) inches in fifteen (15) feet. Any greater deviation shall be sufficient cause for requiring the Contractor to remove and correct, at his expense, any symbol markings not meeting the dimensional requirements shown in the MUTCD.
- D. The Contractor shall protect the markings until dry by placing guarding or warning devices as necessary. In the event any vehicle should cross the wet marking, such a marking shall be reapplied and any tracking lines made by the moving vehicle shall be removed by the Contractor at no additional expense.
- E. To avoid poor quality, markings shall be placed only when the surface of the pavement is sufficiently dry as determined by visual inspection and the pavement temperature is minimum 55E F and the air temperature is minimum 50E F. No work will be allowed when any moisture is visible on the pavement surface.
- F. No thermoplastic markings shall be applied between December 15 and March 15, inclusive. The Engineer may disallow application on any days when the weather is cold and/or rainy and there is some question as to whether the surface temperature will be above 55E F for a period of time adequate to obtain quality markings. The Engineer may disallow application on any day when, in the Engineer's opinion, moisture conditions are not satisfactory for obtaining quality markings.
- G. An adequate number of personnel experienced in the handling and application of this type of material shall be provided by the Contractor to assure the work is done properly. Work shall be done only during daylight hours, and all markings shall be sufficiently dry, before sunset, to permit crossing by traffic. All protective devices shall be removed before sunset to allow free movement of traffic at night.
- H. The marking material shall be applied at a temperature that will provide best adhesion to the pavement and shall be between 390E F and 420E F as recommended by the manufacturer. The material shall be heated uniformly throughout and shall have a uniform disbursement of binder, pigment, and glass beads when applied to the surface of the pavement.
- I. All extruded lines 12 inches or less in width shall be applied with a die that equals the width of the line. All extruded lines greater than 12 inches may be applied with two dies

whose combined widths equal the width of the line.

### 3.04 RATE OF APPLICATION

- A. Marking Material: Marking material shall be applied at the specified widths and at a rate to result in a new material thickness at the center of the line as specified below:

<u>90 mils (2.3 mm):</u>	Edge lines and median lines (4 inch solid white, 4 inch solid yellow, 4 inch broken yellow)
<u>90 mils (2.3mm):</u>	Lane lines (4 inch broken white)
<u>90 mils (2.3mm):</u>	Center lines on two-lane roadways (4 inch broken yellow and 4 inch solid yellow)
<u>125 mils (3.2mm):</u>	All others not listed above

The edge of the line shall, under all circumstances, have a thickness not less than 75% of the specified center thickness.

- B. Glass Beads: "Drop-on" glass beads shall be mechanically applied to the surface of the marking material immediately after the material is applied to the pavement surface, and while the marking material is still molten to ensure that the beads will be held by and mechanically embedded in the surface of the material. The beads shall be uniformly distributed over the entire surface of the marking and shall be applied at a minimum rate of 12 pounds per 100 square feet of stripe.

### 3.05 WARRANTY

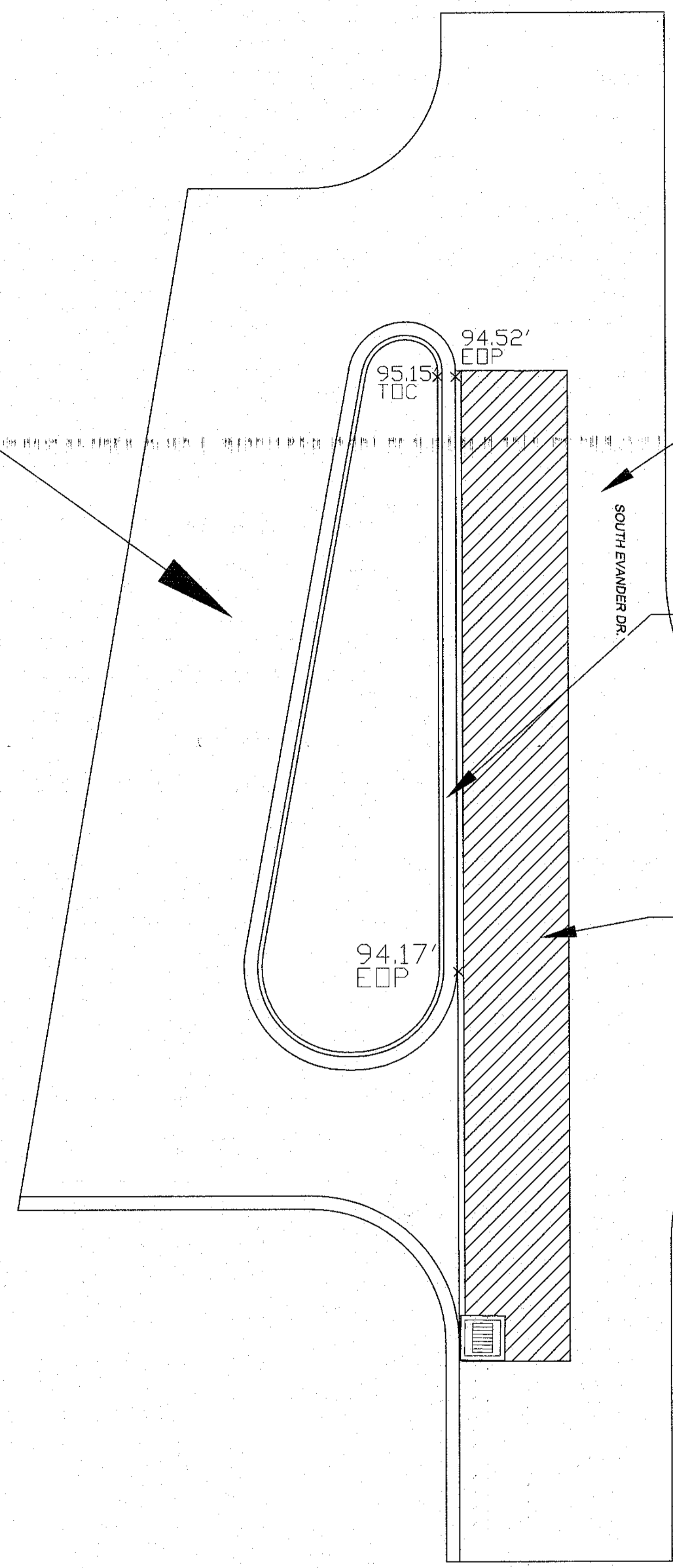
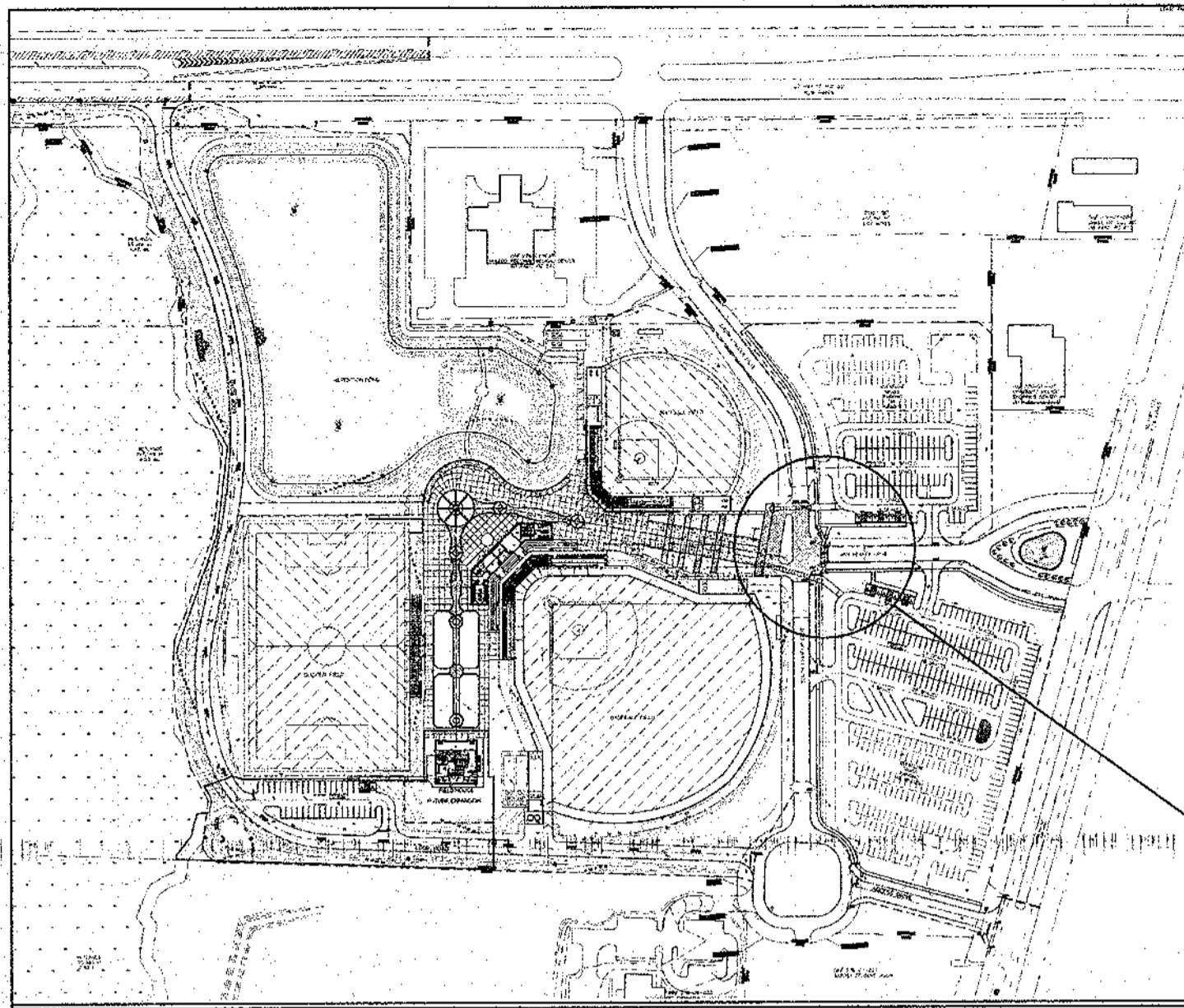
- A. The Contractor shall transfer to the Owner the warranty on thermoplastic materials issued by the manufacturer. The Contractor shall also furnish the Owner the normal warranty for material for a stated period beginning with the last date of marking application on the project.

### 3.06 INSPECTION AND ACCEPTANCE OF WORK

- A. All thermoplastic markings shall be inspected for proper line thickness and width, proper adhesion, and proper cycle length. The markings shall also be observed both day and night to determine whether all requirements of the Contract have been met. Any markings failing to have satisfactory appearance, either day or night, shall be reapplied by the Contractor at his own expense.

The final acceptance of the thermoplastic pavement markings will be delayed for a period of one-hundred eighty (180) days after the last date of marking on the project to permit observation of performance. The Contractor shall be required to replace any markings or markers that, in the opinion of the Engineer, have not performed satisfactorily during this one-hundred eighty day period due to defective materials and/or workmanship in manufacture or application.

END OF SECTION



**PRESSURE WASH ENTIRE PAINTED PLAZA AREA AT A MIN. 3,200 PSI AND REMOVE DEBRIS PRIOR TO PAINTING.**

**EXISTING CURB AND GUTTER TO REMAIN.**

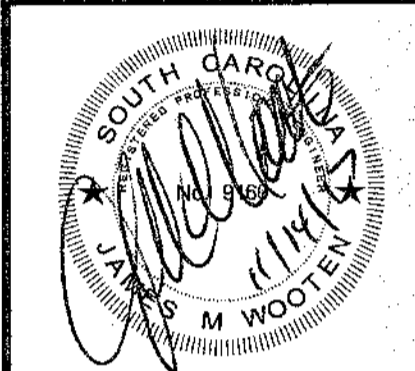
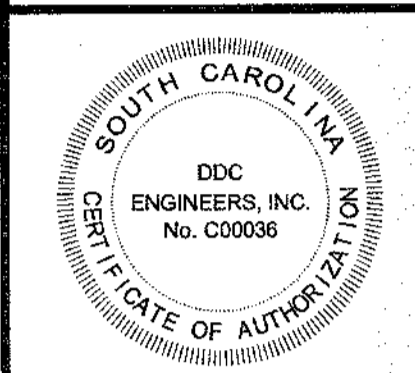
**MILL ASPHALT IN SHADED AREA TO 1 1/2 INCHES ( +/- 1,332 SQ.FT.) COVERING THE LENGTH OF THE PROPOSED TRENCH DRAIN STARTING AT THE GUTTER AND EXTENDING OUT TO THE APPROXIMATE CENTERLINE OF THE EXISTING ROAD.**



SCALE IN FEET  
0 5 10 20



DDC ENGINEERS, INC.  
1298 Professional Dr., Myrtle Beach, SC 29577  
Phone: (843) 692-3200 Fax: (843) 692-3210



NO.	DATE	REVISION DESCRIPTION	SCH	BY
1	11/14/17	ADDENDUM 1		

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**FRANCIS MARION UNIV.  
DRAINAGE IMPROVEMENTS**  
DEMOLITION PLAN  
FLORENCE COUNTY, SOUTH CAROLINA  
PREPARED FOR: FRANCIS MARION UNIVERSITY

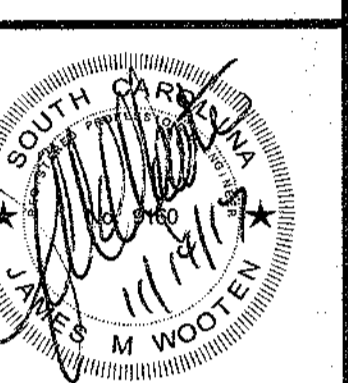
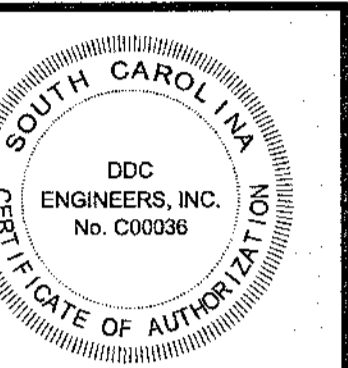
SCALE: 1" = 10'  
DATE: 9/28/17  
DESIGNED BY: SCH  
DRAWN BY: SCH  
APPROV. BY: JMW  
PROJECT NO.: 17103

**DEMO-1**  
FILE NO.:

PLOT SCALE: 1" = 10' PLOT FILE: NEWV0002.DWG



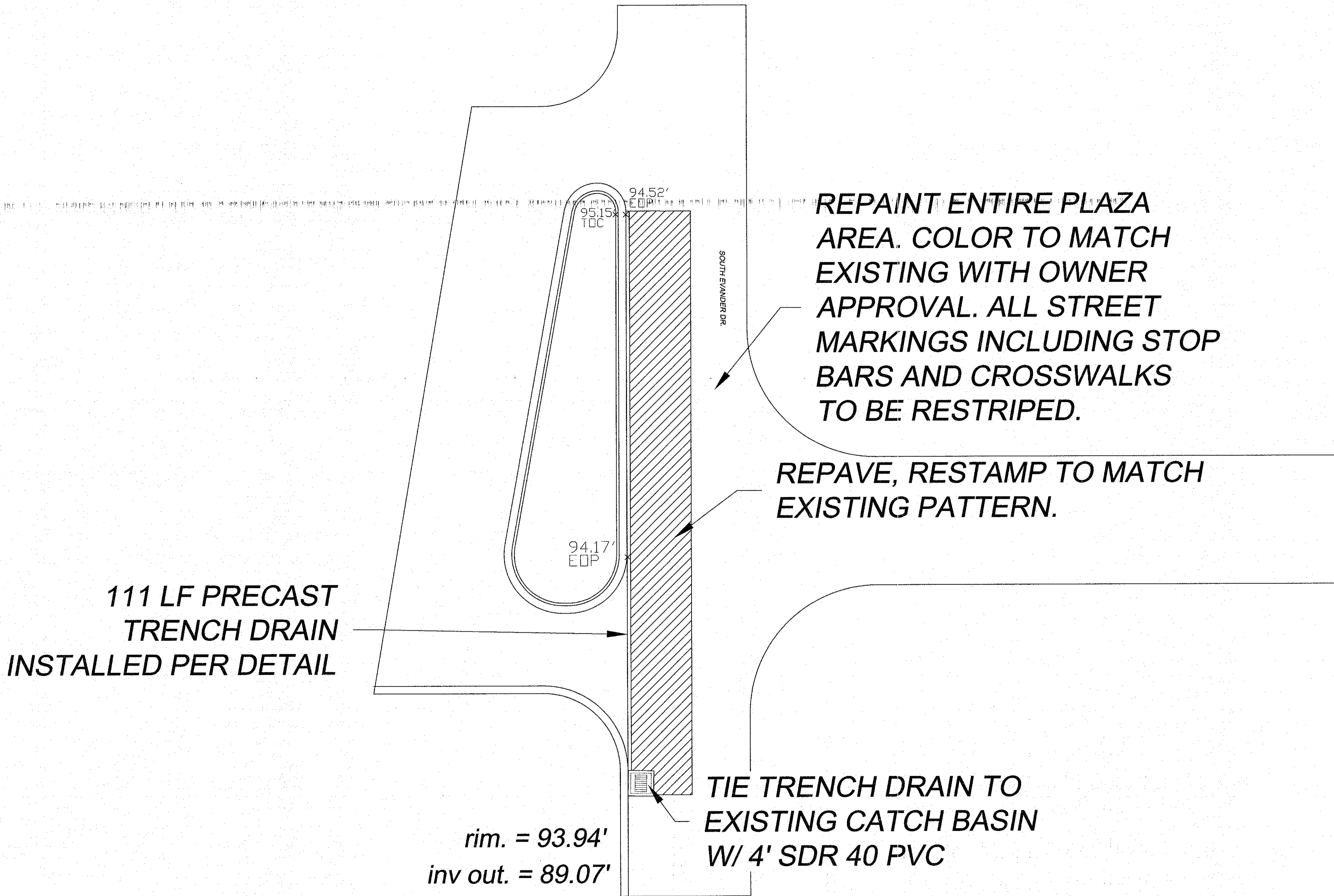
DDC  
ENGINEERS  
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Landscape Architects & Environmentalists  
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NO.	DATE	REVISION DESCRIPTION	BY
1	10/13/17	REVISED PER COMMENTS RECEIVED 10/11/17	SCH
2	11/14/17	ADDENDUM A	SCH

**FRANCIS MARION UNIV.  
DRAINAGE IMPROVEMENTS**  
HARDSCAPE PLAN #1  
FLORENCE COUNTY, SOUTH CAROLINA  
PREPARED FOR: FRANCIS MARION UNIVERSITY

SCALE: 1" = 10'  
DATE: 9/28/17  
DESIGNED BY: SCH  
DRAWN BY: SCH  
APPROV. BY: JMW  
PROJECT NO.: 17103  
**HSCP-1**  
FILE NO.:



NOTE:  
THE SPOT ELEVATIONS INDICATED ARE DERIVED FROM THE  
CONSTRUCTION PLANS.



SCALE IN FEET  
0 5 10 20

PLOT SCALE: 1" = 10'