



Issued March 26, 2015

**RE: University of South Carolina  
Soccer Practice Fields Drainage Improvements  
State Project No. H27-Z204  
CHA Project No. 29614**

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## **ADDENDUM NO. 2**

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TO: ALL HOLDERS OF RECORD OF CONTRACT DOCUMENTS

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject bidder to disqualification. This addendum forms a part of the Contract Documents. It modifies them as follows:

### **CLARIFICATIONS AND QUESTIONS ANSWERED**

1. CLARIFICATION: Bids that are hand delivered or mailed shall be sent to attention of Clarissa Clark. See attached SE-310 markup.
2. QUESTION: Please clarify extent of the geotextile fabric on field subgrade.  
ANSWER: Geotextile fabric is only in the playing field drainage trenches. It is not across the entire playing field subgrade. Specification and drawing revisions are included below.
3. QUESTION: Section 321801 page 12 Drainage System Materials spec is not the same as Section 334100 page 2 HDP Soil Tight Pipe. Please clarify. ANSWER: The pipe specification in Section 321801 shall not be used. See specification revision below. As clarified in Addendum 1, Section 334100 shall be used for the "solid" drainage pipe shown on the plans as "header pipe" and Section 334100-20 shall be used for the perforated underdrain piping under the fields.
1. QUESTION: Will the materials be considered tax exempt for this job?  
ANSWER: No.
2. QUESTION: Disposal of sod scraps are to be removed from the site. Is there an on-site area within the University grounds for disposal of the sod scraps?  
ANSWER: Yes, sod scraps may be placed in the stockpile area (see Addendum 1) along with existing sod that is removed from the fields.
3. QUESTION: The specifications reference concrete sidewalk (Section 321630). Where are the limits of sidewalk/curbing on the plans? ANSWER: This

specification is for the fence post/net post concrete footings and the small section of flat concrete curb (detail 5 on sheet 6) under the ball netting system.

4. QUESTION: Is there a wire line to be connected from the “new controller” to the “connect to new main line”? If so, then it is outside the limits of construction. Please clarify. ANSWER: Yes, appropriate wiring shall connect from the irrigation system to the new controller located in the new track building. This is beyond the “limits of disturbance” shown on the plans but is still part of the work. Also see notes 7 and 8 on sheet 9 Irrigation Details.
5. QUESTION: What is the anticipated schedule for this project to break ground and anticipated receivership date? ANSWER: We anticipate the project starting around May 1<sup>st</sup>. The contract period is 75 days, therefore completion and turn over will be around July 15<sup>th</sup>.
6. QUESTION: Please clarify limits of concrete curbing as shown on details 5 and 6 on sheet 6 of 9 Details. ANSWER: Concrete curbing is only on the 100 LF section of fencing that includes the high ball netting system.

## **SPECIFICATIONS**

1. Reference SE-310 Invitation for Construction Services: Add Clarissa Clark’s name under the section for Bid Delivery Addresses. See attached markup.
2. Reference 321801 Natural Grass Playing Field System:
  - a. DELETE section 2.2.A.1.a that refers to single wall HDPE pipe. See attached marked up specification.
  - b. DELETE the words “playing field subgrade and” in section 2.2.C.1.a. See attached marked up specification.

## **DRAWINGS**

1. Reference Sheet 7 of 9 Details:
  - a. DELETE the words “and full extent of subgrade” on Detail 1 where it refers to geotextile fabric. See attached sketch.

END OF ADDENDUM NO. 2

SE-310

## INVITATION FOR CONSTRUCTION SERVICES

PROJECT NAME: Soccer Practice Fields Drainage Improvements

PROJECT NUMBER: H27-Z204

PROJECT LOCATION: 1320 Heyward Street, Columbia, SC 29205

BID SECURITY REQUIRED? Yes  No PERFORMANCE BOND REQUIRED? Yes  No PAYMENT BOND REQUIRED? Yes  No 

NOTE: Contractor may be subject to a performance appraisal at the close of the project.

CONSTRUCTION COST RANGE: \$ 400,000-500,000

DESCRIPTION OF PROJECT: Re-grading and re-constructing 1 and 1/2 soccer practice fields, including: demolish existing fields; new underdrainage and sand cap layer; new sod; new perimeter chain link fencing and ball netting system; new irrigation system; new field markings. Small and minority business participation is encouraged. Bidders are responsible for obtaining all bidding documents from the USC purchasing website: purchasing.sc.edu.

BIDDING DOCUMENTS/PLANS MAY BE OBTAINED FROM: [http://purchasing.sc.edu/Facilities/Construction Solicitations and Awards](http://purchasing.sc.edu/Facilities/Construction%20Solicitations%20and%20Awards)

PLAN DEPOSIT AMOUNT: \$ 0.00 IS DEPOSIT REFUNDABLE Yes  No  N/A

Bidders must obtain Bidding Documents/Plans from the above listed source(s) to be listed as an official plan holder. Only those Bidding Documents/Plans obtained from the above listed source(s) are official. Bidders that rely on copies of Bidding Documents/Plans obtained from any other source do so at their own risk. All written communications with official plan holders & bidders WILL  WILL NOT  be via email or website posting.

IN ADDITION TO THE ABOVE OFFICIAL SOURCE(S), BIDDING DOCUMENTS/PLANS ARE ALSO AVAILABLE AT:  
N/A

All questions & correspondence concerning this Invitation shall be addressed to the A-E.

A-E NAME: CHA Sports

A-E CONTACT: Chris Smith

A-E ADDRESS: Street/PO Box: 1310 Lady Street, Suite 208

City: Columbia

State: SC

ZIP: 29201-

EMAIL: csmith@chacompanies.com

TELEPHONE: 803-602-3690

FAX: (none)

AGENCY: University of South Carolina

AGENCY PROJECT COORDINATOR: Clarissa Clark

ADDRESS: Street/PO Box: 743 Greene Street

City: Columbia

State: SC

ZIP: 29208-

EMAIL: clarkcg2@mailbox.sc.edu

TELEPHONE: 803-777-7162

FAX: 803-777-7334

PRE-BID CONFERENCE: Yes  No MANDATORY ATTENDANCE: Yes  No 

PRE-BID DATE: 3/17/2015

TIME: 11:00am

PLACE: Conference Room 53, 743 Greene Street, Columbia, SC 29208

BID CLOSING DATE: 3/31/2015

TIME: 2:00pm

PLACE: Conference Room 53, 743 Greene Street, Columbia, SC 29208

BID DELIVERY ADDRESSES:

HAND-DELIVERY:

Attn: Clarissa Clark

USC Campus Planning &amp; Construction

743 Greene Street, Columbia, SC 29208

MAIL SERVICE:

Attn: Clarissa Clark

USC Campus Planning &amp; Construction

743 Greene Street, Columbia, SC 29208

IS PROJECT WITHIN AGENCY CONSTRUCTION CERTIFICATION? (Agency MUST check one) Yes  No

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

- D. The Warranty does not cover any defect, failure, damage caused by or connected with abuse, neglect, deliberate acts, acts of God, casualty or loads exceeding the Contractor's recommendations.

#### 1.11 SPARE PARTS/ATTIC STOCK

- A. Stockpile Materials (Attic Stock): Provide the following additional materials stored as directed by the Owner. [Use only those that apply and size according to project size]

1. Rootzone Mix – 50 Tons

### PART 2 - PRODUCTS

#### 2.1 EARTHWORK MATERIALS

- A. General: All fill material, regardless of intended use category, shall be clean and free from organic matter, roots, brush or other vegetation, trash, debris or other detrimental substances, and rocks or unbroken lumps larger than 3 inch, and shall be tested and approved by the soil testing and observation agency prior to placement
- B. Suitable Material: Soils classified by ASTM as GW, GP, GM, GC, SW or SP, free from organic, frozen, or other deleterious materials. When approved by the Playing Field Designer/Engineer on a case-by-case basis, Select Fill is an acceptable alternate.
- C. Structural Fill: non-plastic, sound, durable, granular particles consisting of sand, gravel, stone or blends with these materials, free from organic, frozen, or other deleterious materials, conforming to the following gradation requirements:

Sieve	Percent Passing
4"	100
No. 40	0-70
No. 200	0-10

- D. Trench Backfill: Existing soils obtained from Playing Field System excavations, excluding broken and pulverized weathered bedrock
- E. All stone shall be angular. Rounded or river stone is not allowed.

#### 2.2 DRAINAGE SYSTEM MATERIALS

- A. Lateral Pipe and Fittings

1. Lateral Pipe:

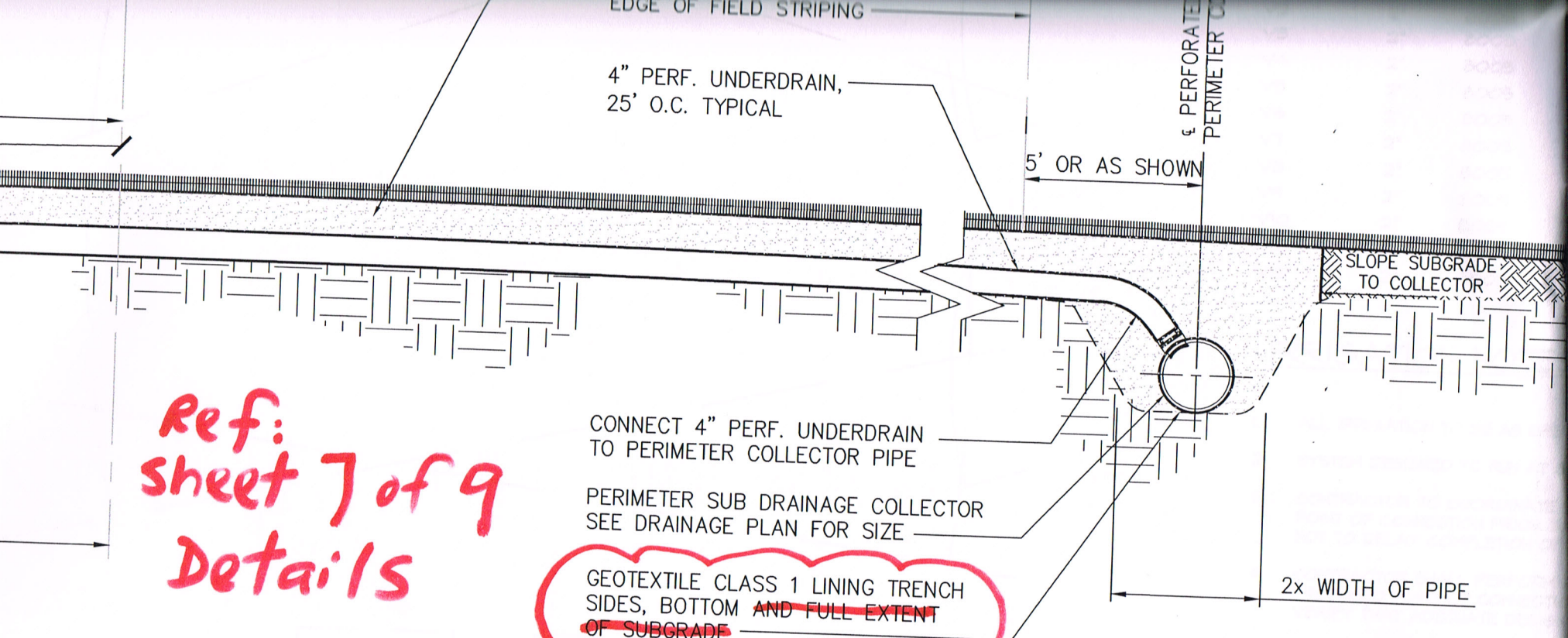
- a. ~~4" HDPE, corrugated, single wall, perforated pipe meeting the requirements of AASHTO M252, Type "C" or "CP"~~
- b. Joints shall be made with split or snap couplings. Standard connections shall meet the soil tightness requirements of AASHTO M252 or M294.
- c. Perforations: Pipe shall meet AASHTO perforation requirements. Pipe shall have 1 square inch of perforated opening per linear foot of pipe. Perforations shall be slots with a max width of .12" and max length of .875". The perforations shall occur in each valley of the corrugations and there shall be 3 in each valley at 120 degree separations.

- d. Fittings: Fittings shall conform to AASHTO m252 or AASHTO M294
  - e. Material: Pipe and fittings shall be made of virgin polyethylene compounds that comply with the cell classification 424420C. "
2. Products
- a. Advanced Drainage Systems (ADS)
  - b. Approved Equal
- B. Collector Pipe, Drainage Pipe, Fittings and Structures:
1. Per Section 334100.20 High Density Polyethylene Storm Utility Drainage Piping
- C. Geotextile Fabric:
1. General:

- a. Provide on playing field subgrade and playing field drainage trenches.
- b. The geotextile shall be a nonwoven sheet of plastic yarn as defined by ASTM D123 and conform to the criteria presented in the following table. These requirements shall be based on the Minimum Average Roll Value (MARV) which is defined as the value that can be expected, with 95% confidence, to be the minimum test average obtained on a roll sampled and tested in accordance with ASTM D4759.
- c. Geotextile shall meet the requirements of AASHTO M288 except as modified herein.

Geotextile Class 1			
Physical Property	ASTM Procedure	Minimum Acceptance Criteria	
		English	Metric
Grab Tensile Strength	D 4632	200 lbs	890 N
Grab Elongation at Break	D 4632	50%	50%
Puncture Strength	D 4833	80 lbs	355 N
Mullen Burst Strength	D 3786	260 psi	1790 Kpa
Trapezoidal Tear	D 4533	80 lbs	355 N
Apparent Size Opening (AOS)	D 4551	70-100 US Std Sieve	150 – 212 um

2. Product:
- a. Mirafi 180 N
    - 1) www.mirafi.com
  - b. Propex Geotex 801
    - 1) www.geotextile.com
  - c. Approved equal.



Ref:  
sheet 7 of 9  
Details

Addendum #2  
3.26.15

FIELD TURF

6" ROOTZONE CAP. PROCESSED  
SAND AND ORGANICS