

University of South Carolina
Health Science Renovation: Greene Street Pedestrian Improvements
Project Number: H27-6052 CP 50002019-3
Project Manager: Emily Jones

Addendum Number One (1)

DATE: June 10, 2016

FROM: Aimee B. Rish, Procurement Specialist

TO: All Bidders

The following items add to, modify, clarify, or otherwise alter the Drawings and/or specifications and will become a part of the Contract Documents. Where a portion of the Drawings and/or specifications is added to, modified, clarified, or otherwise altered, the portion not so affected shall remain. Bidder shall include all effects that these items may have on his proposal.

Bidders List:

1. The sign-in sheet of attendees at the pre-bid conference is attached.

Project Manual:

1. A revised Bid Form (SE-330) is attached. The time for Project Completion has been revised to 42 days. With an anticipated Date of Commencement of July 1, 2016, the date of Substantial Completion would be August 12, 2016. Substantial Completion shall exclude the installation of trees and shrubs. The contractor is expected to properly augment forces to meet the revised contract period. The site shall be fully accessible for student move –in by the close of business on Friday, August 12, 2016.

Drawings

1. Reference Sheet C1.1, Existing Conditions & Demolition Plan Replace with the revised Sheet C1.1 (attached).
2. Add the attached new Sheet C1.2 which shows the Traffic Control/Security Fence Notes. The Security Fencing shall be provided in two separate phases: Area 1 to the west of the Preston Green driveway, and Area 2 to the east of the Preston Green Driveway.
3. Reference Sheet I-1, Irrigation Plan. Replace with the revised sheet I-1 (attached). The location of the controller shall be in a mechanical room beneath the steps of the Longstreet Theatre. The contractor shall provide wiring as required from the controller to the valves. Boring or sidewalk panel replacement will be required in one location as shown on the plan.

4. Reference Sheet C5.1. Refer to detail 9/C5.1. Revise 4" Thick Aggregate Base to 6" Thick Aggregate Base.
5. Reference Sheet C1.1 and Sheet L-1. Tree protection fencing is shown on both plans inaccurately. There are four existing trees to remain that shall require protective fencing. Provide a total of 250 LF of tree protection fencing; the security fencing may form one segment of the required tree protection fencing. Green screening fabric is not required at tree protection fencing inside the security fence perimeter.
6. Refer to sheet ES101: Remove reference to irrigation controller. All electrical work associated with irrigation controller will be provided by USC.

Clarifications:

1. Continuous vehicular access shall be provided 24/7 into the Preston Green area during the project. This will require two separate phases of work on either side of the Preston Green driveway. Refer to Sheet C1.1 for Area 1 and Area 2 Security Fencing to be erected in subsequent phases.
2. Security fencing shall have fabric screening per the USC Supplementary General Conditions in the Project Manual. Fencing panels and fabric shall be of first quality, without excessive tears, holes, etc. in the fabric.

Attachments:

Pre-bid conference sign-in sheet (one page)

SE-330 Bid Form (six pages)

Sheet C1.1, Existing Conditions & Demolition Plan

Sheet C1.2, Existing Conditions (Traffic Control/Fencing)

Sheet I-1, Irrigation Plan

END OF ADDENDUM Number One (1)

University of South Carolina
Pre Bid Sign In Sheet
Columbia, South Carolina

Health Sciences Renovation-
Greene St. Improvements
H27-6052
June 6, 2016 @10:00am

Project Name:
Project Number:
Pre Bid Date & Time:

SWMBE Contractor?	Name	Company Name	Address	Phone #	Email
S W M B E	MICHAEL LABOLA	ABS F&E CORP, INC	1224 TWIN OAK RD BEXINGHAM SC	803 798-6831	m.labola@absfsc.org
S W M B E	Aimee Rish	USC Facilities	743 Greene 29208	7-2261	arish@mc.sc.edu
S W M B E	Lind Jackson	USC		7-3489	ljackson@fmcisc.edu
S W M B E	Emily Jones	"	743 Green	7-7592	efjones@fmc.sc.edu
S W M B E	Bruce Todd	B.B. Todd Cons. Eng.	7436 Broad River Rd Suite 212 FLORENCE, SC 29503	803 730-9857	bruce@rbtodd.com
S W M B E	MARK COTTERILL	grinball cotterill Landscape Architects	600 Bellhine Blvd.	803/ 732/9525	mark@grinballcotterill.com
S W M B E	CHAD WADFORD	GWA, INC. ELECTRICAL ENGINEERS	108 LAURELHURST AVE. COLUMBIA, SC 29210	803-252-6919 803-319-6523	CWADFORD@GWAINC.NET
S W M B E					
S W M B E					

****By signing this sheet you agree to receive information electronically.

**SE-330
LUMP SUM BID FORM**

Bidders shall submit bids on only Bid Form SE-330.

BID SUBMITTED BY: _____
(Bidder's Name)

BID SUBMITTED TO: _____
(Owner's Name)

FOR: PROJECT NAME: Health Sciences Renovation: Greene Street Improvements
PROJECT NUMBER: H27-6052

OFFER

§ 1. In response to the Invitation for Construction Services and in compliance with the Instructions to Bidders for the above-named Project, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with the Owner on the terms included in the Bidding Documents, and to perform all Work as specified or indicated in the Bidding Documents, for the prices and within the time frames indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

§ 2. Pursuant to Section 11-35-3030(1) of the SC Code of Laws, as amended, Bidder has submitted Bid Security as follows in the amount and form required by the Bidding Documents:

- Bid Bond with Power of Attorney** **Electronic Bid Bond** **Cashier's Check**
- (Bidder check one)*

§ 3. Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid:

(Bidder, check all that apply. Note, there may be more boxes than actual addenda. Do not check boxes that do not apply)

- ADDENDA:** #1 #2 #3 #4 #5

§ 4. Bidder accepts all terms and conditions of the Invitation for Bids, including, without limitation, those dealing with the disposition of Bid Security. Bidder agrees that this Bid, including all Bid Alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of **60** Days following the Bid Date, or for such longer period of time that Bidder may agree to in writing upon request of the Owner.

§ 5. Bidder herewith offers to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the following items of construction work:

§ 6.1 **BASE BID WORK** *(as indicated in the Bidding Documents and generally described as follows):* Pedestrian improvements to Greene Street between Sumter Street on the west end and existing decorative columns on the east end. Removal of existing pavement and curb and gutter. Regrading and installation of new asphalt pavement, concrete pavement, pavers and landscaping.

\$ _____, which sum is hereafter called the Base Bid.

(Bidder - insert Base Bid Amount on line above)

SE-330
LUMP SUM BID FORM

§ 6.2 **BID ALTERNATES** as indicated in the Bidding Documents and generally described as follows:

ALTERNATE # 1 (Brief Description): N/A

ADD TO or **DEDUCT FROM BASE BID: \$** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each Alternate)

ALTERNATE # 2 (Brief Description): N/A

ADD TO or **DEDUCT FROM BASE BID: \$** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each Alternate)

ALTERNATE # 3 (Brief Description): N/A

ADD TO or **DEDUCT FROM BASE BID: \$** _____

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each Alternate)

§ 6.3 **UNIT PRICES:**

BIDDER offers for the Agency's consideration and use, the following **UNIT PRICES**. The **UNIT PRICES** offered by **BIDDER** indicate the amount to be added to or deducted from the **CONTRACT SUM** for each item-unit combination. **UNIT PRICES** include all costs to the Agency, including those for materials, labor, equipment, tools of trades and labor, fees, taxes, insurance, bonding, overhead, profit, etc. The Agency reserves the right to include or not to include any of the following **UNIT PRICES** in the Contract and to negotiate the **UNIT PRICES** with **BIDDER**.

No.	ITEM	UNIT OF MEASURE	ADD	DEDUCT
<u>1.</u>	<u>N/A</u>	<u>N/A</u>	<u>\$</u>	<u>\$</u>
<u>2.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>3.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>4.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>5.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>6.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>7.</u>	_____	_____	<u>\$</u>	<u>\$</u>
<u>8.</u>	_____	_____	<u>\$</u>	<u>\$</u>

SE-330
LUMP SUM BID FORM

§ 7. LISTING OF PROPOSED SUBCONTRACTORS PURSUANT TO SECTION 3020(b)(i), CHAPTER 35, TITLE 11 OF THE SOUTH CAROLINA CODE OF LAWS, AS AMENDED
(See Instructions on the following page BF-2A)

Bidder shall use the below-listed Subcontractors in the performance of the Subcontractor Classification work listed:

SUBCONTRACTOR CLASSIFICATION By License Classification and/or Subclassification <i>(Completed by Owner)</i>	SUBCONTRACTOR'S PRIME CONTRACTOR'S NAME <i>(Must be completed by Bidder)</i>	SUBCONTRACTOR'S PRIME CONTRACTOR'S SC LICENSE NUMBER <i>(Requested, but not Required)</i>
BASE BID		
ALTERNATE #1		
N/A		
ALTERNATE #2		
N/A		
ALTERNATE #3		
N/A		

If a Bid Alternate is accepted, Subcontractors listed for the Bid Alternate shall be used for the work of both the Alternate and the Base Bid work.

SE-330
LUMP SUM BID FORM

**INSTRUCTIONS FOR
SUBCONTRACTOR LISTING**

1. Section 7 of the Bid Form sets forth an Owner developed list of contractor/subcontractor specialties by contractor license category and/or subcategory for which bidder is required to identify the entity (subcontractor(s) and/or himself) Bidder will use to perform the work of each listed specialty..
 - a. **Column A:** The Owner fills out this column, which identifies the contractor/subcontractor specialties for which the bidder must list either a subcontractor or himself as the entity that will perform this work. Subcontractor specialties are identified by contractor license categories or subcategories listed in Title 40 of the South Carolina Code of laws. If the owner has not identified a specialty, the bidder does not list a subcontractor.
 - b. **Columns B and C:** In these columns, the Bidder identifies the subcontractors it will use for the work of each specialty listed by the Owner in Column A. Bidder must identify only the subcontractor(s) who will perform the work and no others. Bidders should make sure that their identification of each subcontractor is clear and unambiguous. A listing that could be any number of different entities may be cause for rejection of the bid as non-responsive. For example, a listing of M&M without more may be problematic if there are multiple different licensed contractors in South Carolina whose names start with M&M.
2. **Subcontractor Defined:** For purposes of subcontractor listing, a subcontractor is an entity who will perform work or render service to the prime contractor to or about the construction site pursuant to a contract with the prime contractor. Bidder should not identify sub-subcontractors in the spaces provided on the bid form but only those entities with which bidder will contract directly. Likewise, do not identify material suppliers, manufacturers, and fabricators that will not perform physical work at the site of the project but will only supply materials or equipment to the bidder or proposed subcontractor(s).
3. **Subcontractor Qualifications:** Bidder must only list subcontractors who possess a South Carolina Contractor's license with the license classification and/or subclassification identified by the Owner in the first column on the left. The subcontractor license must also be within the appropriate license group for the work of the specialty. If Bidder lists a subcontractor who is not qualified to perform the work, the Bidder will be rejected as non-responsive.
4. **Use of Own forces:** If under the terms of the Bidding Documents, Bidder is qualified to perform the work of a listed specialty and Bidder does not intend to subcontract such work but to use Bidder's own employees to perform such work, the Bidder must insert its own name in the space provided for that specialty.
5. **Use of Multiple Subcontractors:**
 - a. If Bidder intends to use multiple subcontractors to perform the work of a single specialty listing, Bidder must insert the name of each subcontractor Bidder will use, preferably separating the name of each by the word "**and**". If Bidder intends to use both his own employees to perform a part of the work of a single specialty listing and to use one or more subcontractors to perform the remaining work for that specialty listing, bidder must insert his own name and the name of each subcontractor, preferably separating the name of each with the word "**and**". Bidder must use each entity listed for the work of a single specialty listing in the performance of that work.
 - b. **Optional Listing Prohibited:** Bidder may not list multiple subcontractors for a specialty listing, in a form that provides the Bidder the option, after bid opening or award, to choose to use one or more but not all the listed subcontractors to perform the work for which they are listed. A listing, which on its face requires subsequent explanation to determine whether it is an optional listing, is non-responsive. If bidder intends to use multiple entities to perform the work for a single specialty listing, bidder must clearly set forth on the bid form such intent. Bidder may accomplish this by simply inserting the word "**and**" between the names of each entity listed for that specialty. Agency will reject as non-responsive a listing that contains the names of multiple subcontractors separated by a blank space, the word "or", a virgule (that is a /), or any separator that the Agency may reasonably interpret as an optional listing.
6. If Bidder is awarded the contract, bidder must, except with the approval of the Agency for good cause shown, use the listed entities to perform the work for which they are listed.
7. If bidder is awarded the contract, bidder will not be allowed to substitute another entity as subcontractor in place of a subcontractor listed in Section 7 of the Bid except for one or more of the reasons allowed by the SC Code of Laws.
8. Bidder's failure to identify an entity (subcontractor or himself) to perform the work of a subcontractor specialty listed in the first column on the left will render the Bid non-responsive.

SE-330
LUMP SUM BID FORM

§ 8. LIST OF MANUFACTURERS, MATERIAL SUPPLIERS, AND SUBCONTRACTORS OTHER THAN SUBCONTRACTORS LISTED IN SECTION 7 ABOVE (FOR INFORMATION ONLY):

Pursuant to instructions in the Invitation for Construction Services, if any, Bidder will provide to Owner upon the Owner's request and within 24 hours of such request, a listing of manufacturers, material suppliers, and subcontractors, other than those listed in Section 7 above, that Bidder intends to use on the project. Bidder acknowledges and agrees that this list is provided for purposes of determining responsibility and not pursuant to the subcontractor listing requirements of SC Code Ann § 11-35-3020(b)(i).

§ 9. TIME OF CONTRACT PERFORMANCE AND LIQUIDATED DAMAGES

a) CONTRACT TIME

Bidder agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Owner. Bidder agrees to substantially complete the Work within 42 Calendar Days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

b) LIQUIDATED DAMAGES

Bidder further agrees that from the compensation to be paid, the Owner shall retain as Liquidated Damages the amount of \$ 250.00 for each Calendar Day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents. This amount is intended by the parties as the predetermined measure of compensation for actual damages, not as a penalty for nonperformance.

§ 10. AGREEMENTS

- a) Bidder agrees that this bid is subject to the requirements of the laws of the State of South Carolina.
- b) Bidder agrees that at any time prior to the issuance of the Notice to Proceed for this Project, this Project may be canceled for the convenience of, and without cost to, the State.
- c) Bidder agrees that neither the State of South Carolina nor any of its agencies, employees or agents shall be responsible for any bid preparation costs, or any costs or charges of any type, should all bids be rejected or the Project canceled for any reason prior to the issuance of the Notice to Proceed.

§ 11. ELECTRONIC BID BOND

By signing below, the Principal is affirming that the identified electronic bid bond has been executed and that the Principal and Surety are firmly bound unto the State of South Carolina under the terms and conditions of the AIA Document A310, Bid Bond, included in the Bidding Documents.

ELECTRONIC BID BOND NUMBER: _____

SIGNATURE AND TITLE: _____

**SE-330
LUMP SUM BID FORM**

CONTRACTOR'S CLASSIFICATIONS AND SUBCLASSIFICATIONS WITH LIMITATION

SC Contractor's License Number(s): _____

Classification(s) & Limits: _____

Subclassification(s) & Limits: _____

By signing this Bid, the person signing reaffirms all representation and certification made by both the person signing and the Bidder, including without limitation, those appearing in Article 2 of the Instructions to Bidders, is expressly incorporated by reference.

BIDDER'S LEGAL NAME: _____

ADDRESS: _____

TELEPHONE: _____

EMAIL: _____

SIGNATURE: _____ **DATE:** _____

PRINT NAME: _____

TITLE: _____

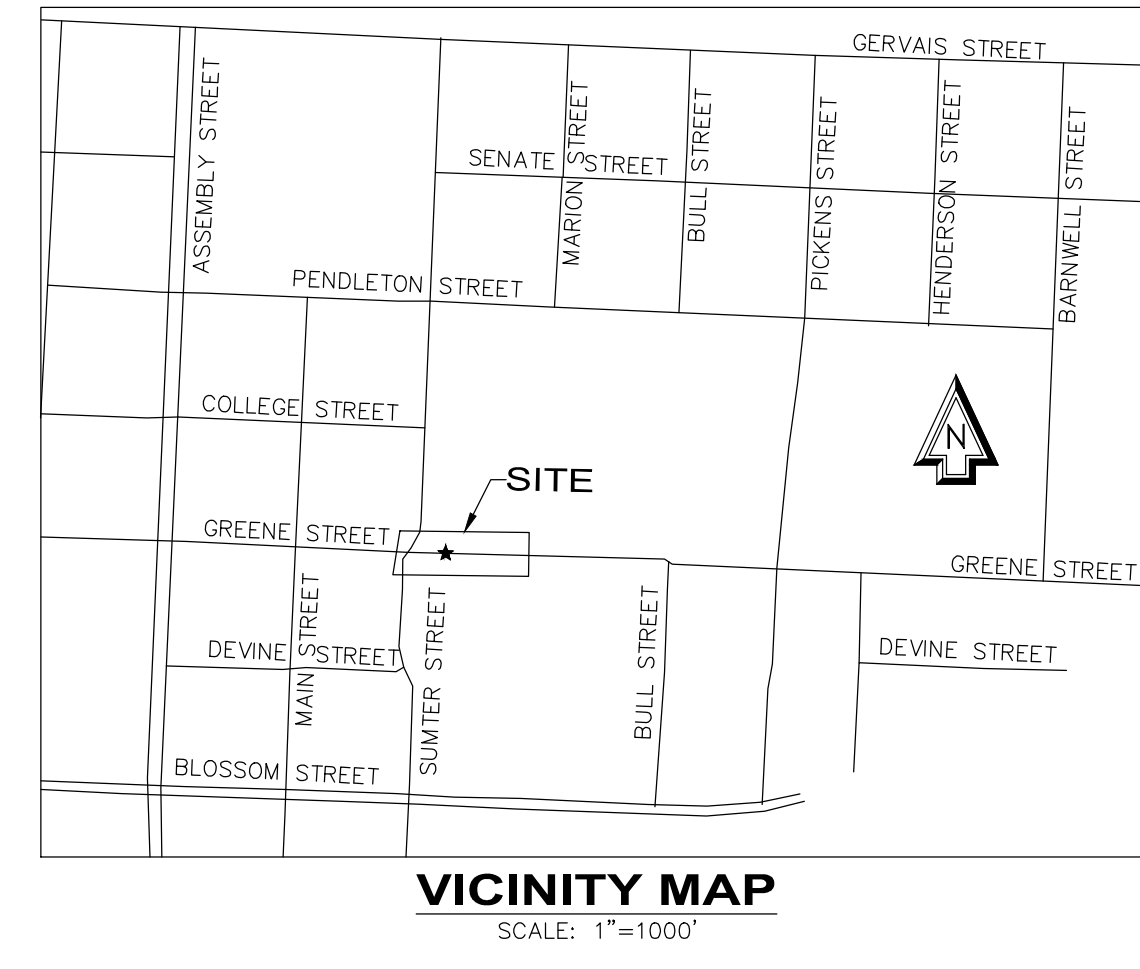
DEMOLITION	EXISTING	DESCRIPTION
N/A	---	RIGHT OF WAY
N/A	---	CURB AND GUTTER
N/A	---	BITUMINOUS SURFACE
N/A	---	CONCRETE SURFACE
N/A	---	BRICK PAVEMENT
N/A	---	CONTOURS
N/A	---	SPOT GRADE ELEVATION
N/A	---	BUILDING
N/A	---	STORM DRAIN LINE w/STRUCTURE
N/A	---	SANITARY SEWER LINE w/MANHOLE
N/A	---	FIRE HYDRANT
N/A	---	WATER LINE
N/A	---	WATER VALVE
N/A	---	WATER METER
N/A	---	NATURAL GAS LINE
N/A	---	UNDERGROUND ELECTRIC
N/A	---	LIGHT POLE w/UNDERGROUND ELECTRIC
N/A	---	OVERHEAD ELECTRIC w/POLE
N/A	---	TELEPHONE LINE
N/A	---	TREE
N/A	---	FENCE
N/A	---	SIGN
N/A	---	NATURAL GAS LINE
N/A	---	STEAM
N/A	①	KEY NOTE

GENERAL NOTES

- TOPOGRAPHIC SURVEY WAS COMPLETED BY CHAO AND ASSOCIATES, INC. IN MARCH OF 2016. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
- OWNER: UNIVERSITY OF SOUTH CAROLINA
OFFICE OF BUSINESS AFFAIRS
COLUMBIA, SC, 29208
PHONE NUMBER: 803-777-4674
CONTACT: EMILY JONES
EMAIL: EFJONES@FMC.SC.EDU
TMS: R11304-05-01
ZONING: C-1
DEVELOPMENT ADDRESS: E/S SUMTER STREET COLUMBIA, SC, 29208
TOTAL ACREAGE: 100+ ACRES
DISTURBED AREA: 0.22 ACRES
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEBRUARY 20, 2002, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

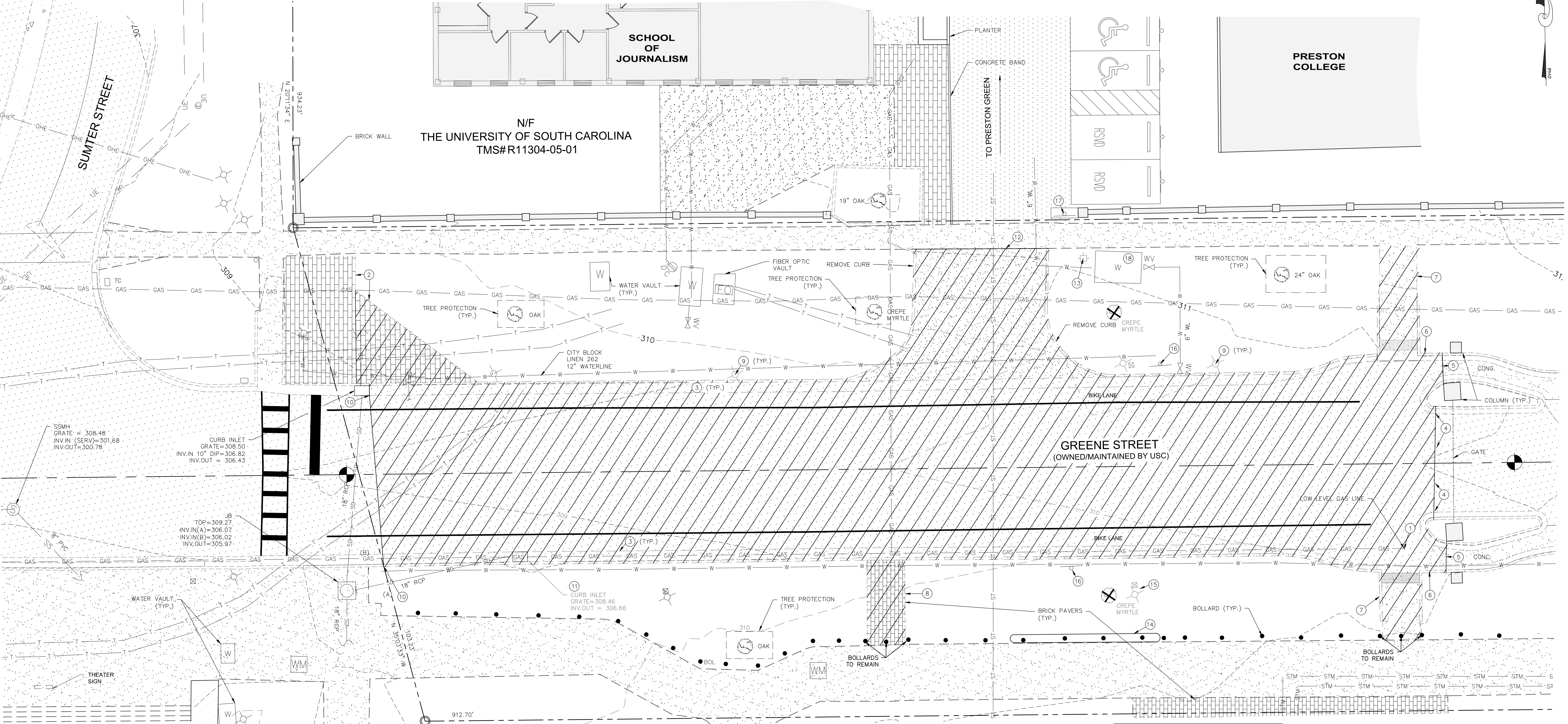
- KEY NOTES**
- UTILITY LINE NOT LOCATED BY SURVEY BUT SHOWN ON USC MASTER UTILITY DRAWING.
 - REMOVE EXISTING PAVERS EAST OF PROJECTED EDGE OF PAVERS TO REMAIN.
 - EXISTING 24" CONCRETE GUTTER PAVED WITH ASPHALT.
 - SAWCUT EXISTING CURB AND GUTTER AT TANGENTS INDICATED AND CONTINUE SAWCUT THROUGH ASPHALT PAVEMENT. REMOVE PAVEMENT WEST OF SAWCUT.
 - SAWCUT AND REMOVE EXISTING CURB AND GUTTER AND CONCRETE BIKE LANE PAVEMENT STARTING AT PROJECTED WESTERN EDGE OF EXISTING COLUMN.
 - SAWCUT EXISTING CURB AND GUTTER AT PROJECTED END OF EXISTING CONCRETE BIKE PATH. COORDINATE WITH SHEET C2.1 FOR CONNECTION OF NEW CURB AND GUTTER.
 - REMOVE EXISTING SIDEWALK CONNECTORS AS INDICATED.
 - REMOVE EXISTING PAVERS AND INSTALL NEW LANDSCAPING. COORDINATE WITH LANDSCAPE PLANS.
 - RELOCATE EXISTING LIGHT POLES (4) TO NORTH SIDE OF NEW CURB. COORDINATE WITH ELECTRICAL PLANS.
 - SAWCUT EXISTING CURB AND GUTTER AND ASPHALT PAVEMENT FROM PROPERTY LINE ON SOUTH SIDE TO EASTERN SIDE OF EXISTING CURB INLET ON NORTHERN SIDE.
 - REMOVE EXISTING CURB INLET FRAME AND GRATE. CONVERT TOP TO MANHOLE FRAME AND LID. ADJUST LID ELEVATION TO MATCH NEW GRADES COORDINATE WITH SHEET C3.1.
 - REMOVE EXISTING CONCRETE DRIVE AT PROJECTED SOUTHERN EDGE OF EXISTING SIDEWALK AT LONGITUDINAL JOINT.
 - RELOCATE EMERGENCY CALL BOX. COORDINATE WITH ELECTRICAL PLANS AND USC.

- KEY NOTES (CONT.)**
- REMOVE EXISTING BOLLARDS (4) INDICATED AND ASSOCIATED CHAINS. DELIVERS BOLLARDS TO USC.
 - RELOCATE EXISTING LIGHT POLE EAST OF PROPOSED SIDEWALK IMPROVEMENTS. COORDINATE WITH SHEET C2.1 AND ELECTRICAL PLANS.
 - REMOVE EXISTING "NO PARKING" SIGNS AND STORE FOR RE-INSTALLATION.
 - EXISTING PARKING LOT SIGN. REMOVE SIGN AND RELOCATE CLOSE TO BRICK WALL. COORDINATE WITH USC.
 - REMOVE EXISTING METAL PLATE OVER METER PIT. ADJUST METER PIT WALL ELEVATIONS TO ACCOMMODATE NEW METER PIT TOP ELEVATION FLUSH WITH NEW PAVERS. SEE SHEET C2.1 AND C3.1.



RBTODD CONSULTING ENGINEERS
748 Broad River Road, Suite 212
Columbia, SC 29203
Tel: 803.781.3141
Fax: 803.781.3142
www.rbtodd.com

Date	Revisions



S:\PROJECTS\15444 USC GREENE STREET IMPROVEMENTS\DRAWINGS\CIVIL\160609\160609.DWG - 6/9/2016

GRIMBALL & ASSOCIATES COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS
600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)788-9225

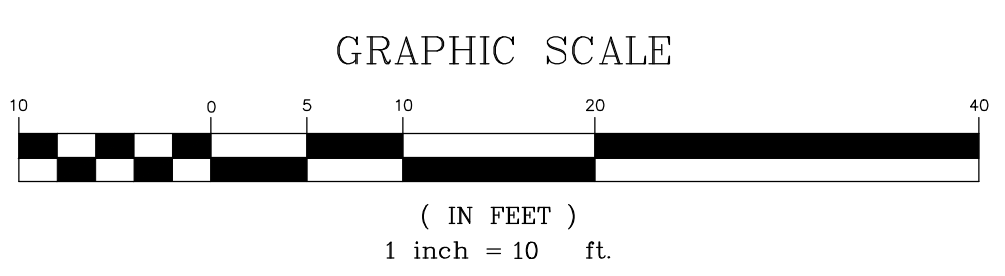
GREENE STREET PEDESTRIAN IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN

This drawing and the design thereon is the property of Grimball-Cotterill & Associates. The reproduction, copying or use of this drawing without consent is prohibited and any violation will be subject to legal action.

The Palmetto Utility Protection Service, Inc.
1111 Park Square Blvd., Suite 212 Columbia, South Carolina 29201 (803)781-1111

South Carolina 811
Call 811 Before you Dig

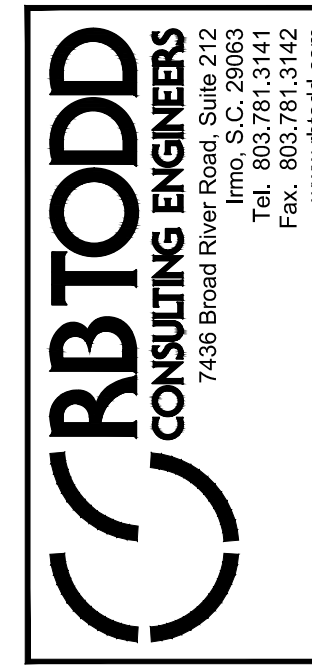
3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C1.1
Sheet No.	OF

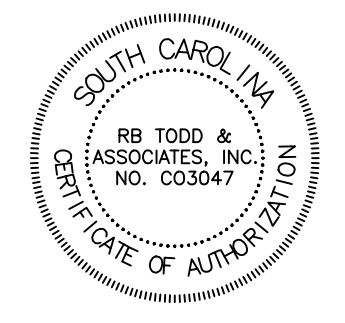
TRAFFIC CONTROL/SECURITY FENCE NOTES

1. INSTALL SECURITY FENCE AROUND AREA #1 AS INDICATED. COMPLETE DEMOLITION AND CONSTRUCTION (NO ASPHALT PAVING). ALLOW TRAFFIC FROM PRESTON GREEN TO FLOW EAST.
2. INSTALL SECURITY FENCE AROUND AREA #2 AS INDICATED. COMPLETE DEMOLITION AND CONSTRUCTION (NO ASPHALT PAVING). ALLOW TRAFFIC FROM PRESTON GREEN TO FLOW WEST.
3. PROVIDE ADEQUATE SIGNAGE TO DIRECT AND INFORM PEDESTRIAN TRAFFIC AT ALL TIMES.
4. PEDESTRIAN TRAFFIC SHALL BE PROTECTED BY A DIRECTION BARRICADE WHERE THE PEDESTRIAN WALKWAY EXTENDS INTO THE STREET. THE DIRECTIONAL BARRICADE SHALL BE OF SUFFICIENT SIZE AND CONSTRUCTION TO DIRECT VEHICULAR TRAFFIC AWAY FROM THE PEDESTRIAN PATH.
5. COMPLY WITH ALL CONSTRUCTION SAFEGUARD REQUIREMENT OF ICB 2012, CHAPTER 33, LOCAL AHJ, AND SC OSE FOR THE ENTIRE DURATION OF THE PROJECT.
6. AFTER CONSTRUCTION OF ALL ITEMS OTHER THAN ASPHALT PAVING, COORDINATE WITH EMILY JONES (777-4674) PRIOR TO REMOVING SECURITY FENCE AND PAVING.

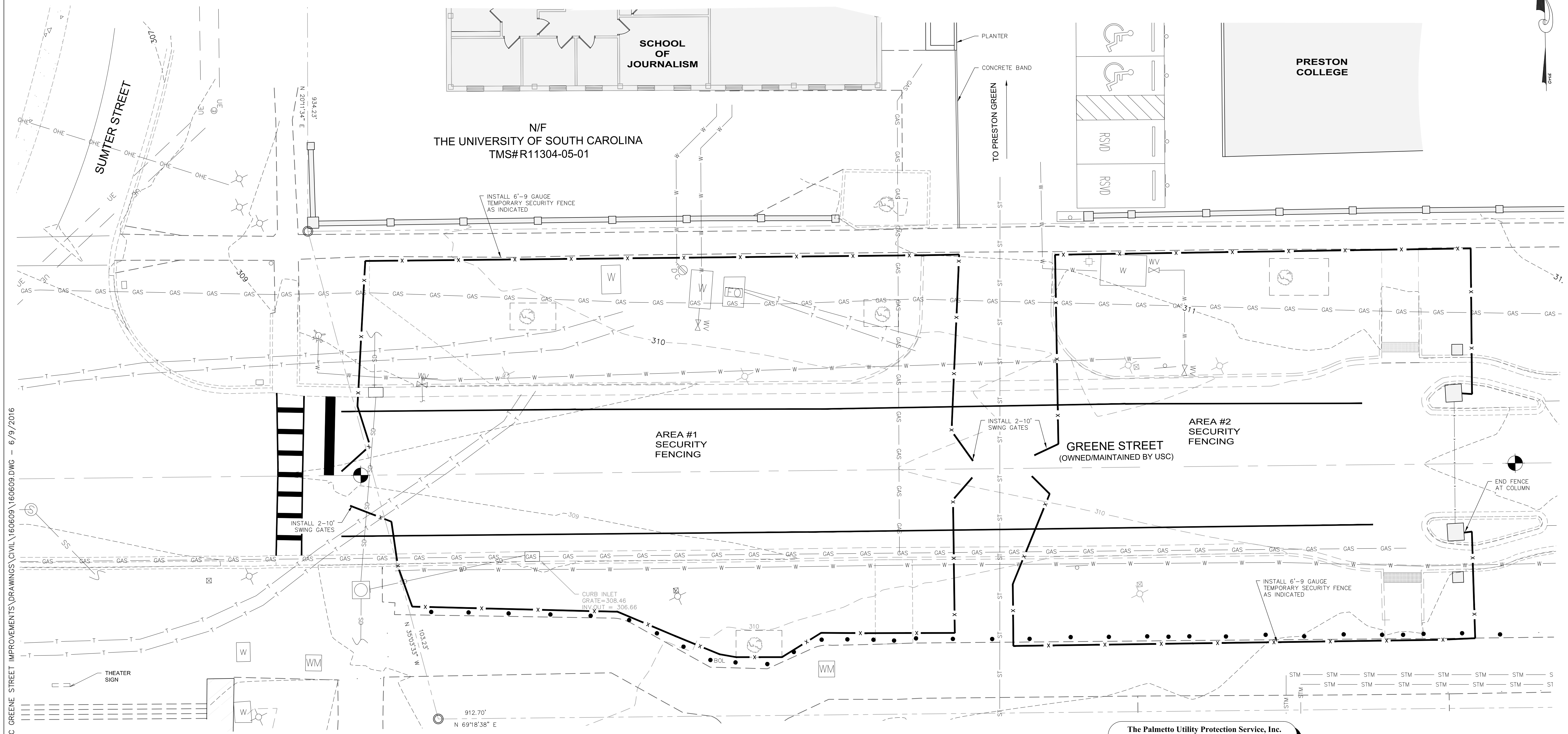


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 Irmo, S.C. 29063
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 Fax. 803.781.3142
 www.rbtodd.com

Date	Revisions



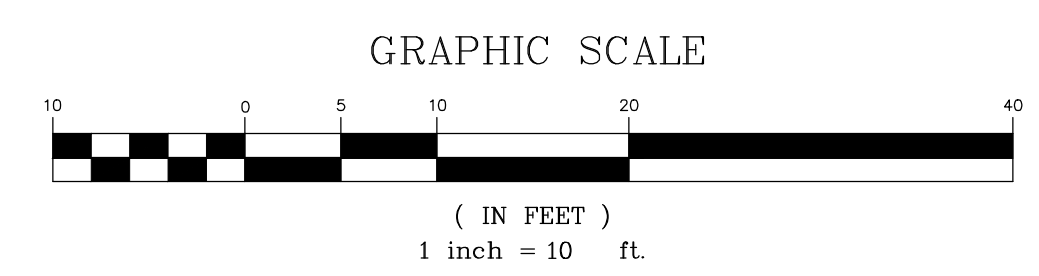
5/6/16



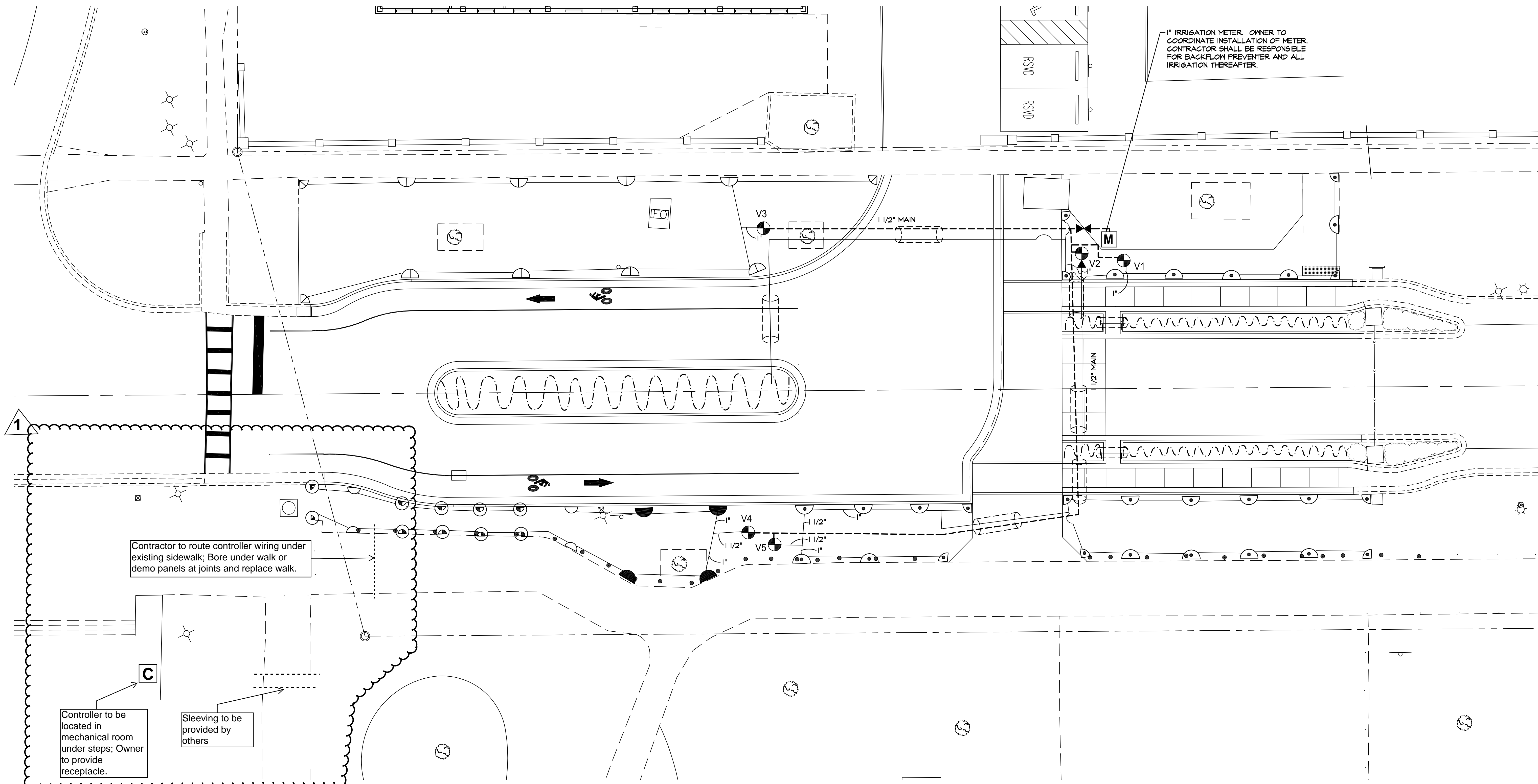
GRIMBALL & ASSOCIATES COTTERILL
 GREENE STREET PEDESTRIAN IMPROVEMENTS
 EXISTING CONDITIONS AND DEMOLITION PLAN
 600 BELTLINE BOULEVARD COLUMBIA, SC 29205 (803)798-9525
 LANDSCAPE ARCHITECTS & LAND PLANNERS
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The Palmetto Utility Protection Service, Inc.
South Carolina 811
 Call 811 Before you Dig.
 3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
 CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



Drawn by:	TLC
Checked by:	RBT
Date:	5/6/16
Drawing No.	C1.2
Sheet No.	OF



IRRIGATION LEGEND

- M** 1" IRRIGATION METER
- C** RAINBIRD ESP-LXD CONTROLLER WITH RAIN SENSOR
- 1" DOUBLE CHECK VALVE BACKFLOW PREVENTER
- RAINBIRD P6A-100 SERIES ELECTRIC VALVE WITH DECODER FOR TWO-WIRE SYSTEM
- XGZ-100-B-COM
- MPROTATOR SERIES POP-UP ROTOR HEAD
- MP2000
- RAINBIRD SERIES POP-UP SPRAY HEAD**
 - 8Q
 - 8H
 - 10H
 - 12Q
 - 12H
 - 15H
- 1/2" MAINLINE
- CLASS 160 OR 200 PVC PIPING SIZE AS NOTED
- RAINBIRD DRIP TUBING WITH RAIN-BUG EMITTERS
- 4" SCH. 40 PVC SLEEVING

VALVE SCHEDULE

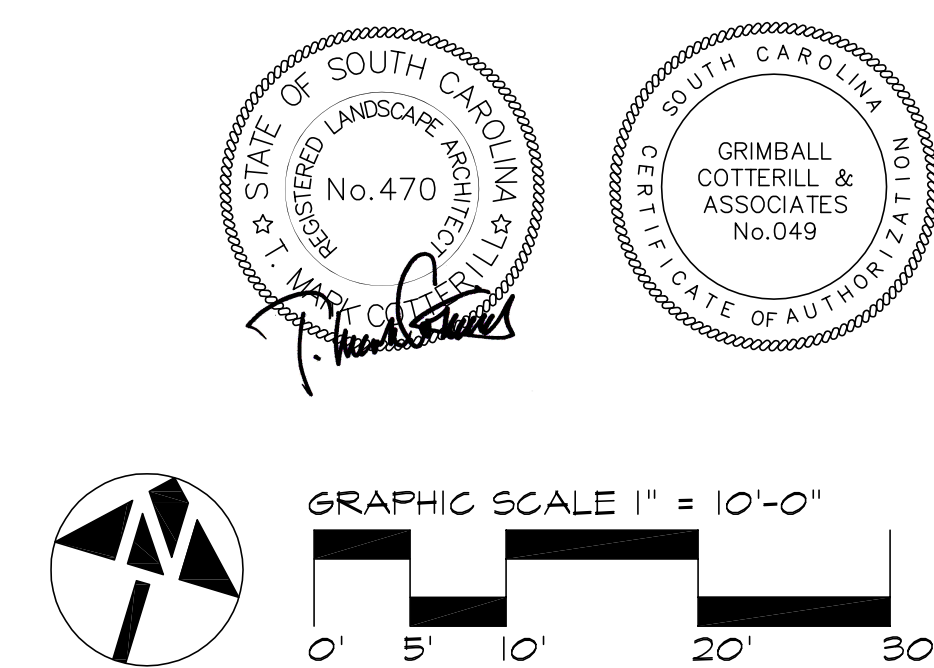
VALVE	SIZE	TYPE	GPM
V1	1"	1804	9.1
V2	1"	DRIP	10±
V3	1"	MPROTATOR	8.09
V4	1"	1804	17.66
V5	1"	1804	22.15

IRRIGATION NOTES

- ALL IRRIGATION TO BE AS SPECIFIED OR APPROVED EQUAL.
- SYSTEM DESIGNED TO RUN AT 23 GPM WITH 65 PSI.
- CONTRACTOR TO COORDINATE WITH OWNER CONCERNING IRRIGATION METER PRIOR TO COMMENCEMENT OF WORK SO AS NOT TO DELAY COMPLETION OF IRRIGATION.
- CONTRACTOR SHALL PERFORM PRESSURE AND FLOW TESTS AT PROPOSED POINT OF CONNECTION PRIOR TO INSTALLATION TO VERIFY THAT ADEQUATE DESIGN CRITERIA IS PRESENT.
- ADJUSTMENT OF SPRINKLER HEADS AND DRIP LINES WILL BE NECESSARY IN THE FIELD.
- DRIP TUBE SYMBOLS AND IRRIGATION PIPING LAYOUT PROVIDED FOR GENERAL LOCATIONS IN THE FIELD ONLY, SYMBOLS DO NOT NECESSARILY PORTRAY AN ACCURATE QUANTITY. THE DESIGN INTENT IS TO PROVIDE 100% HEAD TO HEAD COVERAGE. IF THIS CANNOT BE ACHIEVED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
- UTILIZE EMITTER DISTRIBUTION TUBING AS DETAILED.
- INSTALL AUTO FLUSH VALVES ON DRIP TUBE AT ENDS AS NEEDED TO DRAIN DRIP TUBE AFTER EACH USE.
- ALL DRIP TUBE TO BE INSTALLED UNDER MULCH.
- WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE CROSSING PIPE.
- IRRIGATION CONTRACTOR TO ADJUST SPRAY PATTERNS TO SURROUNDING PLANT BEDS. OVERSPRAY ONTO BUILDINGS AND SIDE WALKS SHALL BE AVOIDED AS MUCH AS POSSIBLE.

GENERAL NOTES

- EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT IS ABSOLUTELY NECESSARY.
- LOCATIONS OF THOSE UTILITIES SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE AT 1-888-T21-T811 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT IF PROPOSED DESIGN IS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ADJUST PROPOSED DESIGN OR UTILITIES AS NECESSARY TO RESOLVE CONFLICTS.
- BASE PLAN DATA DERIVED FROM SITE SURVEY. PROVIDED BY RB TODD DATED MARCH 2013.



Date	Revisions

GRIMBALL & ASSOCIATES
COTTERILL
GREENE STREET PEDESTRIAN CORRIDOR
IRRIGATION PLAN

LANDSCAPE ARCHITECTS & LAND PLANNERS
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Drawn by: SKC
Checked by: TMC
Date: 5/4/16
Drawing No. 1-1
Sheet No. OF