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Charlotte  
Raleigh

**ColeJenest  
& Stone**

Shaping the Environment  
Realizing the Possibilities



**UNC CHARLOTTE**

The University of North Carolina at Charlotte  
Charlotte, North Carolina

Land Planning  
+  
Landscape Architecture  
+  
Civil Engineering  
+  
Urban Design

**PROJECT MANUAL**

For

**Campus Circulation Improvements**

SCO Project No. 16-14055  
Code 41526 Item 310  
CJS Project No. 04496.00

March 8, 2017

## NOTICE TO BIDDERS

Sealed proposals will be received by The University of North Carolina in Charlotte, NC, in Room 119 of the Facilities Management & Police building (#55 on the campus map – <http://facilities.uncc.edu/maps>) until **2:00 pm on Tuesday, April 4, 2017** and immediately thereafter publicly opened and read for the furnishing of labor, material and equipment entering into the construction of:

### **Campus Circulation Improvements The University of North Carolina at Charlotte**

Campus Circulation Improvements are intended to enhance pedestrian and vehicular circulation on the UNC Charlotte campus with new connection to the CATS Lynx light rail line. Work includes the installation of new brick paver sidewalks, bus drop-off with parking, raised crosswalk with pedestrian signalization, and associated wall, stair, planter, drainage, and landscape improvements.

Bids will be received for single prime contract. All proposals shall be lump sum.

Visitor parking is available in Lot 26. Visitors will need to obtain a parking pass from the FM reception area on the first floor and return to their car prior to the bid opening. Campus map is available for review at <http://maps.uncc.edu/>.

### **Non-Mandatory Pre-Bid Meeting**

A **non-mandatory** pre-bid meeting will be held for all interested bidders on Wednesday, March 15, 2017 at 2:00 pm in Room 112A of the Cone University Center (#5 on the campus map). The meeting will address project specific questions, issues, bidding procedures, and bid forms. After the prebid meeting there will be a site visit to go over the project scope and locations. **This will be the only opportunity for contractors and their subcontractors to visit the site, so please have all interested parties in attendance.**

Visitor parking is located in the Cone Deck adjacent the Cone University Center.

The meeting will address project specific questions, issues, bidding procedures, and bid forms. The meeting is also to identify preferred brand alternates and their performance standards that the Owner will consider for approval on this project. A walk of the site will be conducted immediately following the meeting.

Bidders questions will be entertained in writing until 5:00 pm on Wednesday, March 22, 2017. Address all questions to the designer, ColeJenest & Stone - Attn: Susan G. Freyler, [sfreyler@colejeneststone.com](mailto:sfreyler@colejeneststone.com).

Final addenda will be issued Tuesday, March 28, 2017 to all plan holders/bidders of record.

Complete plans, specifications, and contract documents will be open for inspection at:

ColeJenest & Stone  
200 South Tryon Street, Suite 1400  
Charlotte, NC 28202  
(704) 376-1555

UNC Charlotte  
Hickory Hall  
Room 02E – Capital Projects Design Plan Review  
9151 Cameron Boulevard  
Charlotte, NC 28223  
(704) 687-0615

Metrolina Minority Contractors Association (MMCA) Plan Room  
2848 Queen City Drive, Suite B  
Charlotte, NC 28208  
(877) 526-6205  
[mmca@mmcaofcharlotte.org](mailto:mmca@mmcaofcharlotte.org)

Or may be obtained from ColeJenest & Stone, upon deposit of fifty dollars (\$50) in cash or certified check. The full plan deposit will be returned to those bidders provided all documents are returned in good, usable condition within ten (10) days after the bid date.

Electronic copies of the plans, specifications and contract documents will also be provided electronically to all interested bidders. Contact for electronic plans and specifications is Susan Freyler at (704) 376-1555 or [sfreyler@colejeneststone.com](mailto:sfreyler@colejeneststone.com).

Electronic copies of the plans, specifications and contract documents are available at the following:

1. Construct Connect at [content@constructconnect.com](mailto:content@constructconnect.com) – 800-364-2059.
2. North Carolina Offices of McGraw-Hill Dodge Corporation – (877) 784-9556 or (800) 393-6343; <http://construction.com/dodge>
3. Metrolina Minority Contractors Association – (877) 526-6205;  
[mmca@mmcaofcharlotte.org](mailto:mmca@mmcaofcharlotte.org)

**NOTE:** The bidder shall include with the bid proposal the form *Identification of Minority Business Participation* identifying the minority business participation it will use on the project and shall include either *Affidavit A* or *Affidavit B* as applicable. Forms and instructions are included within the Proposal Form in the bid documents. Failure to complete these forms is grounds for rejection of the bid. (GS143-128.2c Effective 1/1/2002.)

All contractors are hereby notified that they must have proper license as required under the state laws governing their respective trades.

General contractors are notified that Chapter 87, Article 1, General Statutes of North Carolina, will be observed in receiving and awarding general contracts. General contractors submitting bids on this project must have license classification for Building Contractor with an unlimited license required by the NC General Contractors Licensing Board under [G.S. 87-1](#).

NOTE--SINGLE PRIME CONTRACTS: Under GS 87-1, a contractor that superintends or manages construction of any building, highway, public utility, grading, structure or improvement shall be deemed a "general contractor" and shall be so licensed. Therefore a single prime project that involves other trades will require the single prime contractor to hold a proper General Contractors license.

Each proposal shall be accompanied by a cash deposit or a certified check drawn on some bank or trust company, insured by the Federal Deposit Insurance Corporation, of an amount equal to not less than five percent (5%) of the proposal, or in lieu thereof a bidder may offer a bid bond of five percent (5%) of the bid executed by a surety company licensed under the laws of North Carolina to execute the contract in accordance with the bid bond. Said deposit shall be retained by the owner as liquidated damages in event of failure of the successful bidder to execute the contract within ten days after the award or to give satisfactory surety as required by law.

A performance and payment bond will be required for one hundred percent (100%) of the contract price.

Payment will be made based on ninety-five percent (95%) of monthly estimates and final payment made upon completion and acceptance of work.

No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of 30 days.

The owner reserves the right to reject any or all bids and to waive informalities.

Bidders who will not attend the Bid Opening need to ensure their sealed bids are delivered no later than **1:00 pm on Tuesday, April 4, 2017** to the following:

**Mailed Proposals:**

Attn: Ms. Joyce Clay, Hickory Hall, Room 35B  
The University of North Carolina at Charlotte  
Facilities Management – Capital Projects  
9201 University City Boulevard  
Charlotte, NC 28223-0001

Or

**Hand Delivered:**

Attn: Ms. Joyce Clay – Capital Projects, Room 35B  
Hickory Hall (#536 on the campus map)  
9151 Cameron Boulevard  
Charlotte, NC 28223  
(704) 687-0615

**Designer:**

ColeJenest & Stone  
200 South Tryon Street, Suite 1400  
Charlotte, NC 28202  
(704) 376-1555

**Owner:**

The University of North Carolina at Charlotte  
Hickory Hall, FM - Capital Projects  
9201 University City Blvd  
Charlotte, NC 28223  
(704) 687-0615

## **GUIDELINES FOR RECRUITMENT AND SELECTION OF MINORITY BUSINESSES FOR PARTICIPATION IN STATE CONSTRUCTION CONTRACTS**

In accordance with G.S. 143-128.2 (effective January 1, 2002) these guidelines establish goals for minority participation in single-prime bidding, separate-prime bidding, construction manager at risk, and alternative contracting methods, on State construction projects in the amount of \$300,000 or more. The legislation provides that the State shall have a verifiable ten percent (10%) goal for participation by minority businesses in the total value of work for each project for which a contract or contracts are awarded. These requirements are published to accomplish that end.

### **SECTION A: INTENT**

It is the intent of these guidelines that the State of North Carolina, as awarding authority for construction projects, and the contractors and subcontractors performing the construction contracts awarded shall cooperate and in good faith do all things legal, proper and reasonable to achieve the statutory goal of ten percent (10%) for participation by minority businesses in each construction project as mandated by GS 143-128.2. Nothing in these guidelines shall be construed to require contractors or awarding authorities to award contracts or subcontracts to or to make purchases of materials or equipment from minority-business contractors or minority-business subcontractors who do not submit the lowest responsible, responsive bid or bids.

### **SECTION B: DEFINITIONS**

1. Minority - a person who is a citizen or lawful permanent resident of the United States and who is:
  - a. Black, that is, a person having origins in any of the black racial groups in Africa;
  - b. Hispanic, that is, a person of Spanish or Portuguese culture with origins in Mexico, South or Central America, or the Caribbean Islands, regardless of race;
  - c. Asian American, that is, a person having origins in any of the original peoples of the Far East, Southeast Asia and Asia, the Indian subcontinent, the Pacific Islands;
  - d. American Indian, that is, a person having origins in any of the original peoples of North America; or
  - e. Female
2. Minority Business - means a business:
  - a. In which at least fifty-one percent (51%) is owned by one or more minority persons, or in the case of a corporation, in which at least fifty-one percent (51%) of the stock is owned by one or more minority persons or socially and economically disadvantaged individuals; and
  - b. Of which the management and daily business operations are controlled by one or more of the minority persons or socially and economically disadvantaged individuals who own it.
3. Socially and economically disadvantaged individual - means the same as defined in 15 U.S.C. 637. "Socially disadvantaged individuals are those who have been subjected to racial or ethnic prejudice or cultural bias because of their identity as a member of a group without regard to their individual qualities". "Economically disadvantaged individuals are those socially disadvantaged individuals whose ability to compete in the free enterprise system has been impaired due to diminished capital and credit opportunities as compared to others in the same business area who are not socially disadvantaged".
4. Public Entity - means State and all public subdivisions and local governmental units.
5. Owner - The State of North Carolina, through the Agency/Institution named in the contract.
6. Designer - Any person, firm, partnership, or corporation, which has contracted with the State of North Carolina to perform architectural or engineering, work.
7. Bidder - Any person, firm, partnership, corporation, association, or joint venture seeking to be awarded a public contract or subcontract.

8. Contract - A mutually binding legal relationship or any modification thereof obligating the seller to furnish equipment, materials or services, including construction, and obligating the buyer to pay for them.
9. Contractor - Any person, firm, partnership, corporation, association, or joint venture which has contracted with the State of North Carolina to perform construction work or repair.
10. Subcontractor - A firm under contract with the prime contractor or construction manager at risk for supplying materials or labor and materials and/or installation. The subcontractor may or may not provide materials in his subcontract.

## **SECTION C: RESPONSIBILITIES**

1. Office for Historically Underutilized Businesses, Department of Administration (hereinafter referred to as HUB Office).

The HUB Office has established a program, which allows interested persons or businesses qualifying as a minority business under G.S. 143-128.2, to obtain certification in the State of North Carolina procurement system. The information provided by the minority businesses will be used by the HUB Office to:

- a. Identify those areas of work for which there are minority businesses, as requested.
- b. Make available to interested parties a list of prospective minority business contractors and subcontractors.
- c. Assist in the determination of technical assistance needed by minority business contractors.

In addition to being responsible for the certification/verification of minority businesses that want to participate in the State construction program, the HUB Office will:

- (1) Maintain a current list of minority businesses. The list shall include the areas of work in which each minority business is interested.
- (2) Inform minority businesses on how to identify and obtain contracting and subcontracting opportunities through the State Construction Office and other public entities.
- (3) Inform minority businesses of the contracting and subcontracting process for public construction building projects.
- (4) Work with the North Carolina trade and professional organizations to improve the ability of minority businesses to compete in the State construction projects.
- (5) The HUB Office also oversees the minority business program by:
  - a. Monitoring compliance with the program requirements.
  - b. Assisting in the implementation of training and technical assistance programs.
  - c. Identifying and implementing outreach efforts to increase the utilization of minority businesses.
  - d. Reporting the results of minority business utilization to the Secretary of the Department of Administration, the Governor, and the General Assembly.

2. State Construction Office

The State Construction Office will be responsible for the following:

- a. Furnish to the HUB Office a minimum of twenty-one days prior to the bid opening the following:
  - (1) Project description and location;
  - (2) Locations where bidding documents may be reviewed;
  - (3) Name of a representative of the owner who can be contacted during the advertising period to advise who the prospective bidders are;
  - (4) Date, time and location of the bid opening.
  - (5) Date, time and location of prebid conference, if scheduled.
- b. Attending scheduled prebid conference, if necessary, to clarify requirements of the general statutes regarding minority-business participation, including the bidders' responsibilities.

- c. Reviewing the apparent low bidders' statutory compliance with the requirements listed in the proposal, that must be complied with, if the bid is to be considered as responsive, prior to award of contracts. The State reserves the right to reject any or all bids and to waive informalities.
- d. Reviewing of minority business requirements at Preconstruction conference.
- e. Monitoring of contractors' compliance with minority business requirements in the contract documents during construction.
- f. Provide statistical data and required reports to the HUB Office.
- g. Resolve any protest and disputes arising after implementation of the plan, in conjunction with the HUB Office.

### 3. Owner

Before awarding a contract, owner shall do the following:

- a. Develop and implement a minority business participation outreach plan to identify minority businesses that can perform public building projects and to implement outreach efforts to encourage minority business participation in these projects to include education, recruitment, and interaction between minority businesses and non-minority businesses.
- b. Attend the scheduled prebid conference.
- c. At least 10 days prior to the scheduled day of bid opening, notify minority businesses that have requested notices from the public entity for public construction or repair work and minority businesses that otherwise indicated to the Office for Historically Underutilized Businesses an interest in the type of work being bid or the potential contracting opportunities listed in the proposal. The notification shall include the following:
  - 1. A description of the work for which the bid is being solicited.
  - 2. The date, time, and location where bids are to be submitted.
  - 3. The name of the individual within the owner's organization who will be available to answer questions about the project.
  - 4. Where bid documents may be reviewed.
  - 5. Any special requirements that may exist.
- d. Utilize other media, as appropriate, likely to inform potential minority businesses of the bid being sought.
- e. Maintain documentation of any contacts, correspondence, or conversation with minority business firms made in an attempt to meet the goals.
- f. Review, jointly with the designer, all requirements of G.S. 143-128.2(c) and G.S. 143-128.2(f) – (i.e. bidders' proposals for identification of the minority businesses that will be utilized with corresponding total dollar value of the bid and affidavit listing good faith efforts, or affidavit of self-performance of work, if the contractor will perform work under contract by its own workforce) - prior to recommendation of award to the State Construction Office.
- g. Evaluate documentation to determine good faith effort has been achieved for minority business utilization prior to recommendation of award to State Construction Office.
- h. Review prime contractors' pay applications for compliance with minority business utilization commitments prior to payment.
- i. Make documentation showing evidence of implementation of Owner's responsibilities available for review by State Construction Office and HUB Office, upon request

### 4. Designer

Under the single-prime bidding, separate prime bidding, construction manager at risk, or alternative contracting method, the designer will:

- a. Attend the scheduled prebid conference to explain minority business requirements to the prospective bidders.
- b. Assist the owner to identify and notify prospective minority business prime and subcontractors of potential contracting opportunities.
- c. Maintain documentation of any contacts, correspondence, or conversation with minority business firms made in an attempt to meet the goals.
- d. Review jointly with the owner, all requirements of G.S. 143-128.2(c) and G.S.143-128.2(f) – (i.e. bidders' proposals for identification of the minority businesses that will be utilized with



corresponding total dollar value of the bid and affidavit listing Good Faith Efforts, or affidavit of self-performance of work, if the contractor will perform work under contract by its own workforce) - prior to recommendation of award.

- e. During construction phase of the project, review “MBE Documentation for Contract Payment” – (Appendix E) for compliance with minority business utilization commitments. Submit Appendix E form with monthly pay applications to the owner and forward copies to the State Construction Office.
- f. Make documentation showing evidence of implementation of Designer’s responsibilities available for review by State Construction Office and HUB Office, upon request.

5. Prime Contractor(s), CM at Risk, and Its First-Tier Subcontractors

Under the single-prime bidding, the separate-prime bidding, construction manager at risk and alternative contracting methods, contractor(s) will:

- a. Attend the scheduled prebid conference.
- b. Identify or determine those work areas of a subcontract where minority businesses may have an interest in performing subcontract work.
- c. At least ten (10) days prior to the scheduled day of bid opening, notify minority businesses of potential subcontracting opportunities listed in the proposal. The notification will include the following:
  - (1) A description of the work for which the subbid is being solicited.
  - (2) The date, time and location where subbids are to be submitted.
  - (3) The name of the individual within the company who will be available to answer questions about the project.
  - (4) Where bid documents may be reviewed.
  - (5) Any special requirements that may exist, such as insurance, licenses, bonds and financial arrangements.

If there are more than three (3) minority businesses in the general locality of the project who offer similar contracting or subcontracting services in the specific trade, the contractor(s) shall notify three (3), but may contact more, if the contractor(s) so desires.

- d. During the bidding process, comply with the contractor(s) requirements listed in the proposal for minority participation.
- e. Identify on the bid, the minority businesses that will be utilized on the project with corresponding total dollar value of the bid and affidavit listing good faith efforts as required by G.S. 143-128.2(c) and G.S. 143-128.2(f).
- f. Make documentation showing evidence of implementation of PM, CM-at-Risk and First-Tier Subcontractor responsibilities available for review by State Construction Office and HUB Office, upon request.
- g. Upon being named the apparent low bidder, the Bidder shall provide one of the following: (1) an affidavit (Affidavit C) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the applicable goal; (2) if the percentage is not equal to the applicable goal, then documentation of all good faith efforts taken to meet the goal. Failure to comply with these requirements is grounds for rejection of the bid and award to the next lowest responsible and responsive bidder.
- h. The contractor(s) shall identify the name(s) of minority business subcontractor(s) and corresponding dollar amount of work on the schedule of values. The schedule of values shall be provided as required in Article 31 of the General Conditions of the Contract to facilitate payments to the subcontractors.
- i. The contractor(s) shall submit with each monthly pay request(s) and final payment(s), “MBE Documentation for Contract Payment” – (Appendix E), for designer’s review.
- j. During the construction of a project, at any time, if it becomes necessary to replace a minority business subcontractor, immediately advise the owner, State Construction Office, and the Director of the HUB Office in writing, of the circumstances involved. The prime contractor shall make a good faith effort to replace a minority business subcontractor with another minority business subcontractor.

- k. If during the construction of a project additional subcontracting opportunities become available, make a good faith effort to solicit subbids from minority businesses.
- l. It is the intent of these requirements apply to all contractors performing as prime contractor and first tier subcontractor under construction manager at risk on state projects.

6. Minority Business Responsibilities

While minority businesses are not required to become certified in order to participate in the State construction projects, it is recommended that they become certified and should take advantage of the appropriate technical assistance that is made available. In addition, minority businesses who are contacted by owners or bidders must respond promptly whether or not they wish to submit a bid.

**SECTION 4: DISPUTE PROCEDURES**

It is the policy of this state that disputes that involves a person's rights, duties or privileges, should be settled through informal procedures. To that end, minority business disputes arising under these guidelines should be resolved as governed under G.S. 143-128(g).

**SECTION 5:** These guidelines shall apply upon promulgation on state construction projects. Copies of these guidelines may be obtained from the Department of Administration, State Construction Office, (physical address) 301 North Wilmington Street, Suite 450, NC Education Building, Raleigh, North Carolina, 27601-2827, (mail address) 1307 Mail Service Center, Raleigh, North Carolina, 27699-1307, phone (919) 807-4100, Website: [www.nc-sco.com](http://www.nc-sco.com)

**SECTION 6:** In addition to these guidelines, there will be issued with each construction bid package provisions for contractual compliance providing minority business participation in the state construction program.

## MINORITY BUSINESS CONTRACT PROVISIONS (CONSTRUCTION)

### APPLICATION:

The **Guidelines for Recruitment and Selection of Minority Businesses for Participation in State Construction Contracts** are hereby made a part of these contract documents. These guidelines shall apply to all contractors regardless of ownership. Copies of these guidelines may be obtained from the Department of Administration, State Construction Office, (physical address) 301 North Wilmington Street, Suite 450, NC Education Building, Raleigh, North Carolina, 27601-2827, (mail address) 1307 Mail Service Center, Raleigh, North Carolina, 27699-1307, phone (919) 807-4100, Website: <http://www.nc-sco.com>

### MINORITY BUSINESS SUBCONTRACT GOALS:

The goals for participation by minority firms as subcontractors on this project have been set at 10%.

The bidder must identify on its bid, the minority businesses that will be utilized on the project with corresponding total dollar value of the bid and affidavit (Affidavit A) listing good faith efforts **or** affidavit (Affidavit B) of self-performance of work, if the bidder will perform work under contract by its own workforce, as required by G.S. 143-128.2(c) and G.S. 143-128.2(f).

The lowest responsible, responsive bidder must provide Affidavit C, that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the applicable goal.

**OR**

Provide Affidavit D, that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, **with documentation of Good Faith Effort, if the percentage is not equal to the applicable goal.**

**OR**

Provide Affidavit B, which includes sufficient information for the State to determine that the bidder does not customarily subcontract work on this type project.

**The above information must be provided as required. Failure to submit these documents is grounds for rejection of the bid.**

## **MINIMUM COMPLIANCE REQUIREMENTS:**

All written statements, affidavits or intentions made by the Bidder shall become a part of the agreement between the Contractor and the State for performance of this contract. Failure to comply with any of these statements, affidavits or intentions, or with the minority business Guidelines shall constitute a breach of the contract. A finding by the State that any information submitted either prior to award of the contract or during the performance of the contract is inaccurate, false or incomplete, shall also constitute a breach of the contract. Any such breach may result in termination of the contract in accordance with the termination provisions contained in the contract. It shall be solely at the option of the State whether to terminate the contract for breach.

In determining whether a contractor has made Good Faith Efforts, the State will evaluate all efforts made by the Contractor and will determine compliance in regard to quantity, intensity, and results of these efforts. Good Faith Efforts include:

- (1) Contacting minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor or available on State or local government maintained lists at least 10 days before the bid or proposal date and notifying them of the nature and scope of the work to be performed.
- (2) Making the construction plans, specifications and requirements available for review by prospective minority businesses, or providing these documents to them at least 10 days before the bid or proposals are due.
- (3) Breaking down or combining elements of work into economically feasible units to facilitate minority participation.
- (4) Working with minority trade, community, or contractor organizations identified by the Office for Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- (5) Attending any prebid meetings scheduled by the public owner.
- (6) Providing assistance in getting required bonding or insurance or providing alternatives to bonding or insurance for subcontractors.
- (7) Negotiating in good faith with interested minority businesses and not rejecting them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- (8) Providing assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisting minority businesses in obtaining the same unit pricing with the bidder's suppliers in order to help minority businesses in establishing credit.
- (9) Negotiating joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.
- (10) Providing quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

**APPENDIX E**

**MBE DOCUMENTATION FOR CONTRACT PAYMENTS**

Prime Contractor/Architect: \_\_\_\_\_

Address & Phone: \_\_\_\_\_

Project Name: \_\_\_\_\_

Pay Application #: \_\_\_\_\_ Period: \_\_\_\_\_

The following is a list of payments made to Minority Business Enterprises on this project for the above-mentioned period.

MBE FIRM NAME	* INDICATE TYPE OF MBE	AMOUNT PAID THIS MONTH	TOTAL PAYMENTS TO DATE	TOTAL AMOUNT COMMITTED

\*Minority categories: Black, African American (B), Hispanic (H), Asian American (A), American Indian (I), Female (F), Social and Economically Disadvantage (D)

Date: \_\_\_\_\_ Approved/Certified By: \_\_\_\_\_

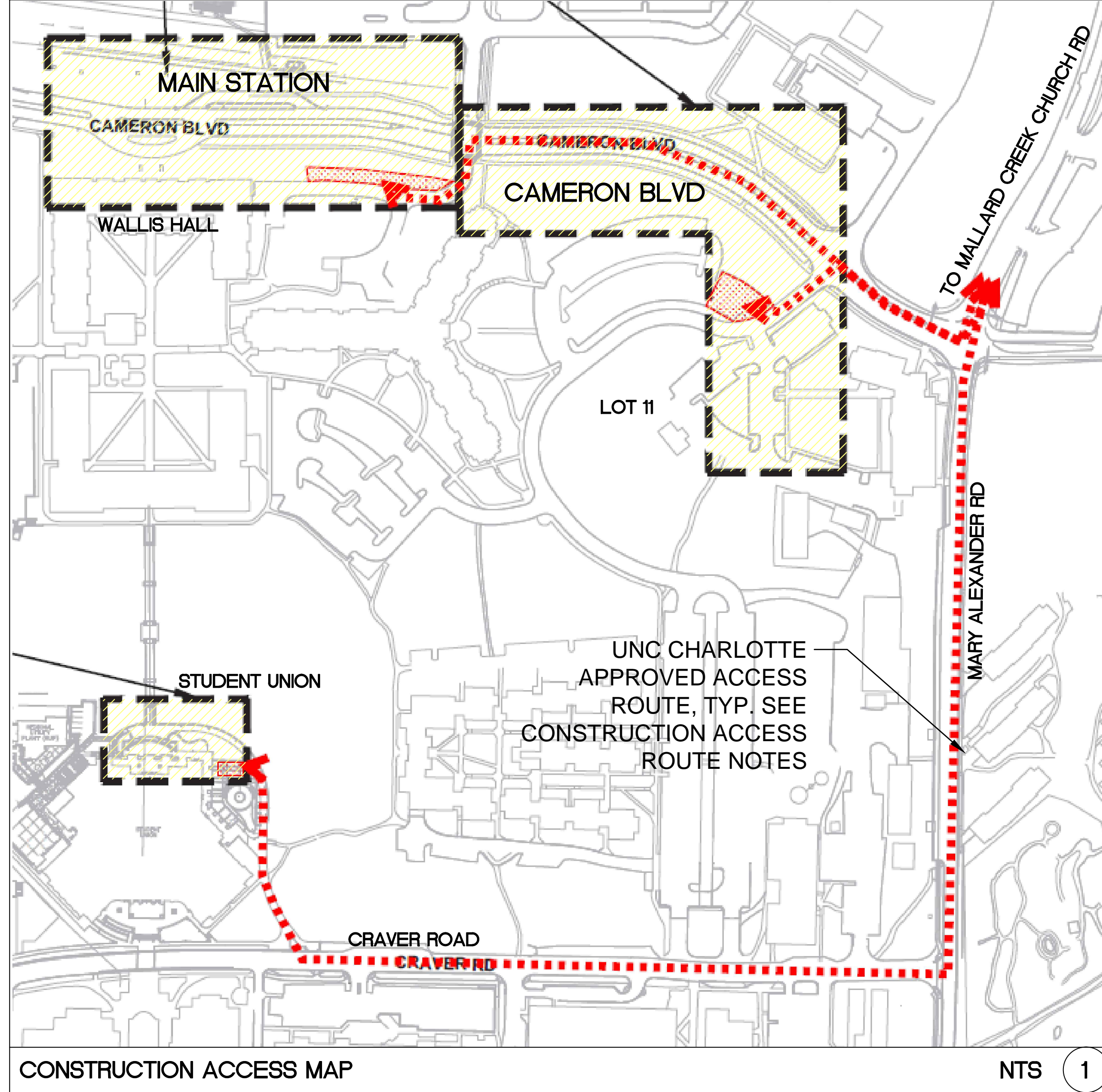
Name

\_\_\_\_\_ Title

\_\_\_\_\_ Signature

**SUBMIT WITH EACH PAY REQUEST & FINAL PAYMENT**





**CONSTRUCTION ACCESS ROUTES**

WALLIS HALL:  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPLAR LANE (DO NOT BLOCK POPLAR LANE).

CAMERON BLVD./LOT 11 - ALTERNATE #1:  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CAMERON BLVD., POPLAR TERRACE DR., LOT 21 ENTRANCE DRIVE.

STUDENT UNION - ALTERNATE #2:  
CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: MALLARD CREEK CHURCH RD., MARY ALEXANDER RD., CRAVER RD., FIRE ACCESS LANE TO STUDENT UNION (MUST REMAIN OPEN AT ALL TIMES).

\*ANY DEVIATION MUST BE APPROVED BY UNCC BY CONSTRUCTION MANAGER

**ADD ALTERNATE #4 - ADD BUS DROP-OFF AND WIDEN SIDEWALK AT MAIN STATION**

WORK TO INCLUDE ADDING HEAVY-DUTY CONCRETE PAVING, WIDENING EXISTING BRICK WALK TO 8', ADDING ADDITIONAL CURB AND GUTTER, REMOVAL OF TREES, PLANTING NEW TREES, NEW EMERGENCY BLUE LIGHT AND ADDITIONAL PEDESTRIAN LIGHT RELOCATIONS.

**ADD ALTERNATE #5 - ADD SIGNALIZED INTERSECTION AT THE MAIN STATION**

WORK TO INCLUDE ADDING THE SIX (6) PEDESTRIAN AND TRAFFIC SIGNAL POLES, BASES, ELECTRICAL BOXES AND PANELS, WIRING AND SIGNAL HEADS. THE CONDUIT FOR THE WIRING (INCLUDING THE CAPS FOR THE CONDUIT AND PULL STRINGS) WILL BE INCLUDED IN THE BASE BID.

**ADD ALTERNATE #6A - LANDSCAPE AT MAIN STATION**

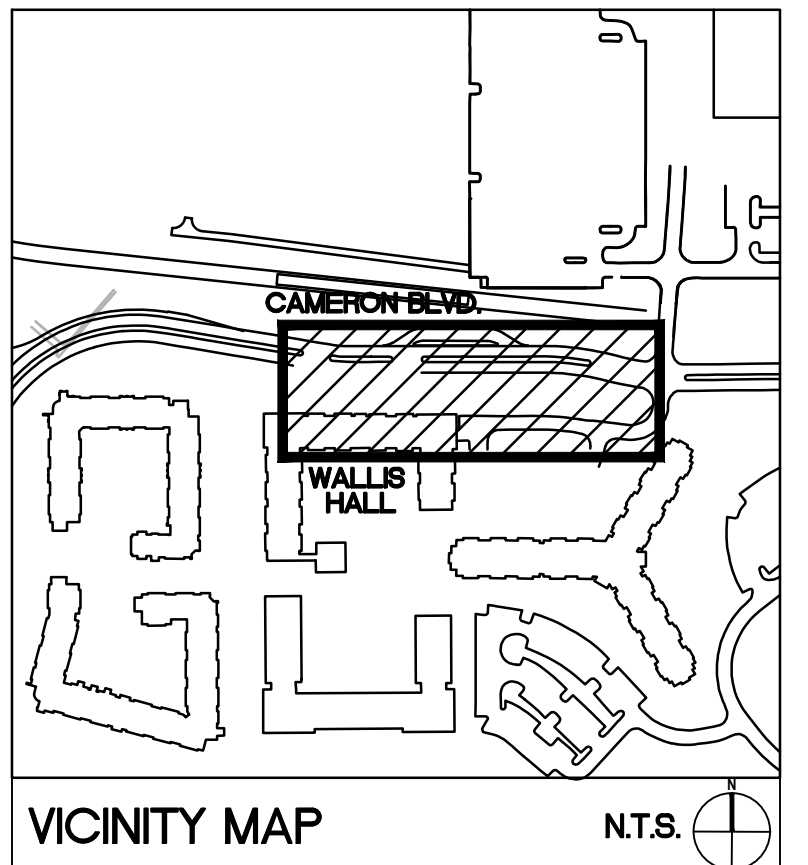
WORK WILL INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOG) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, TWO (2) STREET TREES ARE TO BE INSTALLED ALONG CAMERON BLVD., IN FRONT OF WALLIS HALL.

**ADD ALTERNATE #6B - LANDSCAPE AT MAIN STATION**

WORK WILL INCLUDE INSTALLATION OF PROPOSED PLANT MATERIAL (PLANTS AND SOG) TO BE LOCATED IN EXISTING AND PROPOSED PLANTING BEDS IN FRONT OF WALLIS HALL. ADDITIONALLY, SOG FOR ALL DISTURBED AREAS AS PART OF ALTERNATE #4, THREE (3) STREET TREES, AND FIVE (5) EVERGREEN TREES ARE TO BE INSTALLED ALONG CAMERON BLVD., IN FRONT OF WALLIS HALL.

**DEMOLITION NOTES**

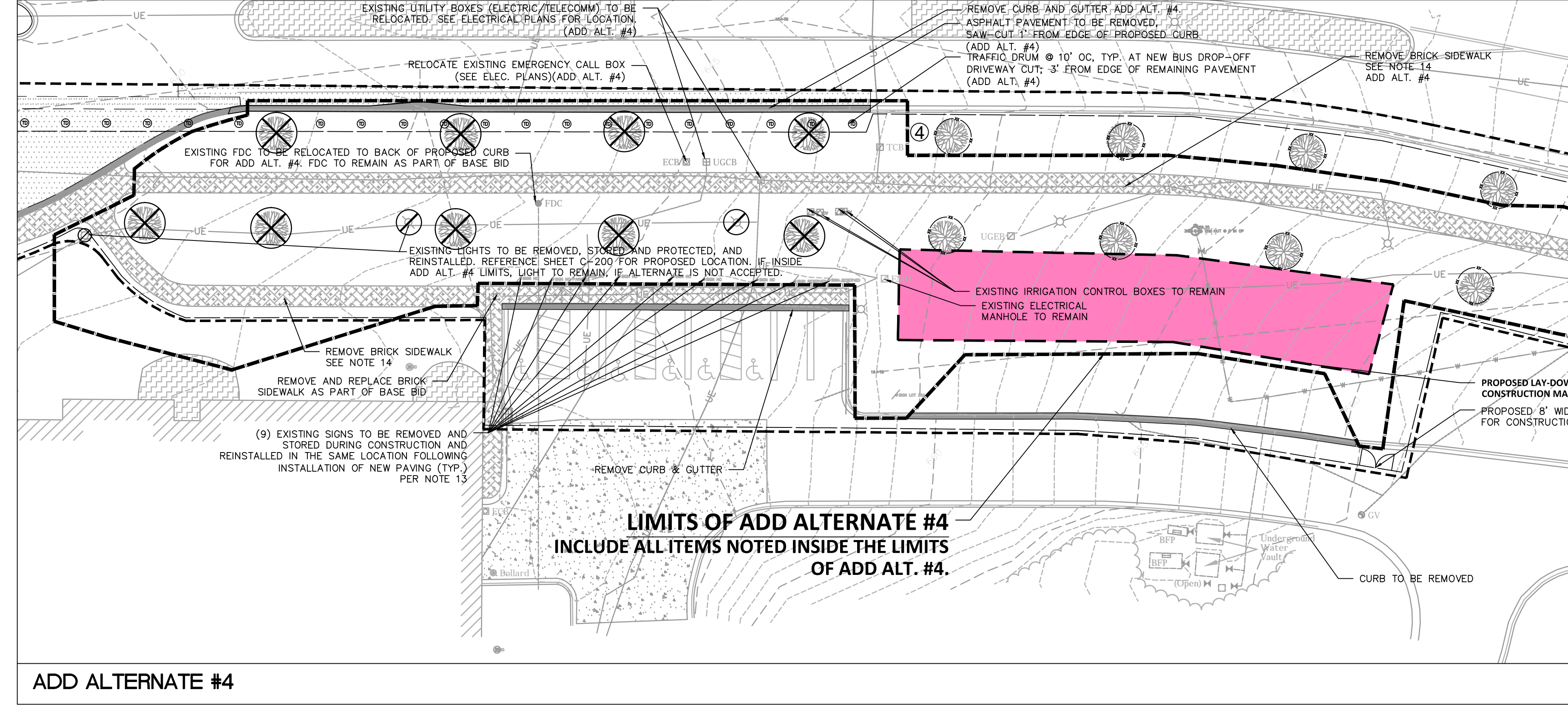
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND SEQUENCING OF DEMOLITION AS DESCRIBED BY THESE DOCUMENTS AND SPECIFICATIONS. CONTRACTOR IS TO OBTAIN ALL PERMITS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF ALL BURIED UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER, TELECOMMUNICATION, GAS, ETC.) WITHIN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION. UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE OMISSION OF, OR INCLUSION OF, UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OR DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY REQUIRED UTILITY DEMOLITION OR RELOCATION WITH THE APPLICABLE UTILITY OWNER. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE RESPECTIVE UTILITY OWNER AND AS NOT TO ADVERSELY AFFECT THE PROJECT SCHEDULE.
- ALL MATERIAL GENERATED BY THE DEMOLITION WILL BE HAULED FROM THE SITE AND DISPOSED OF PER LOCAL ORDINANCES.
- INSTALL 8' CHAIN LINK FENCE AROUND PERIMETER OF PROJECT AREA DURING DEMOLITION AND CONSTRUCTION.
- ALL EXISTING ASPHALT PAVEMENT SHALL BE SAW-CUT AT THE LIMIT OF DEMOLITION WHERE CONSTRUCTION PLANS SHOW TIE-INS. SAW-CUT JOINT SHALL BE ONE FOOT FROM THE EXISTING EDGE OF PAVEMENT, MINIMUM.
- ALL EXISTING CONCRETE PAVEMENT, SIDEWALK AND/OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST EXISTING CONTROL JOINT BEYOND THE LIMIT OF DEMOLITION SHOWN ON THE PLAN. WHERE NO EXISTING CONTROL JOINTS ARE PRESENT WITHIN FIVE FEET OF THE LIMIT OF DEMOLITION, CONCRETE PAVEMENTS SHALL BE SAW-CUT.
- ADA COMPLIANT PEDESTRIAN ACCESS TO WALLIS HALL AND THE STUDENT UNION, AND ONE LANE OF CAMERON BLVD. SHALL REMAIN OPEN AND UNOBSTRUCTED TO TRAFFIC AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION PER WORK AREA TRAFFIC CONTROL HANDBOOK STANDARDS. (W.A.T.C.H.)
- DEMOLITION OF STORM DRAINAGE AND SANITARY SEWER SYSTEM(S) BY CONTRACTOR SHALL ALLOW FOR CONTINUOUS USE OF THE SYSTEM(S).
- CONTRACTOR SHALL REPAIR OR REPLACE ANY ADJACENT CONCRETE CURBING AND/OR SIDEWALK DAMAGED AS PART OF DEMOLITION PROCESS.
- FOR THE RENOVATION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, FEDERAL AND/OR LOCAL REGULATIONS REQUIRE THAT A THOROUGH INSPECTION BE CONDUCTED FOR ASBESTOS-CONTAINING MATERIALS, PRIOR TO CONDUCTING A RENOVATION OR DEMOLITION ACTIVITY. THE ASBESTOS INSPECTION MUST BE CONDUCTED BY A NORTH CAROLINA ACCREDITED ASBESTOS INSPECTOR. ALL REGULATED AND/OR FRIABLE ASBESTOS-CONTAINING MATERIALS IDENTIFIED DURING THE SURVEY, WHICH WILL BE DISTURBED, MUST BE PROPERLY REMOVED BY ACCREDITED INDIVIDUALS BEFORE BEGINNING THE RENOVATION OR DEMOLITION ACTIVITY.
- REMOVAL, STORAGE, AND REINSTALLMENT OF EXISTING SIGNS FOR PARKING SHALL BE COORDINATED WITH CONSTRUCTION MANAGER.
- BRICK PAVERS TO BE REMOVED SHALL BE SAVED AND STACKED NEATLY TO THE SIDE FOR REINSTALLATION. WHEN REINSTALLED, SALVAGED PAVERS SHALL BE MIXED INTERMITTENTLY WITH NEW BRICK PAVERS FOR INCREASED SIDEWALK, RAMP AND STAIR WIDTHS. CONTRACTOR SHALL CONFIRM EACH EXISTING PAVEMENT TYPE AND ENSURE THAT SIMILAR PAVERS (VEHICULAR AND PEDESTRIAN) ARE STORED TOGETHER AND LABELED FOR EASE OF IDENTIFICATION. PAVERS SHALL BE REINSTALLED IN THE CORRECT APPLICATION (VEHICULAR FOR VEHICULAR AREAS, PEDESTRIAN FOR PEDESTRIAN PAVERS) FOLLOWING DEMOLITION AND GRADING PHASES OF WORK.
- ALL PLANT MATERIAL THAT IS IDENTIFIED TO BE TRANSPORTED MATERIAL (TREES) SHALL BE REMOVED BY THE CONTRACTOR. CONTRACTOR AND TRANSPORTED TO A HOLDING AREA DETERMINED BY UNCC CONSTRUCTION MANAGER. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANT MATERIAL DURING CONSTRUCTION (UNC CHARLOTTE WILL PROVIDE WATER TO PLANT MATERIAL). CONTRACTOR IS RESPONSIBLE TO REINSTALL/RELOCATE PLANT MATERIAL. FOR TREES TO BE TRANSPORTED, AT THE MAIN STATION PROJECT AREA, SEE SHEET C-700 FOR LOCATIONS.
- CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATES WITH THE UNCC CHARLOTTE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- PROVIDE 48" SAFETY FENCE AROUND PEDESTRIAN AREAS (SEE SUPPLEMENTARY GENERAL CONDITIONS 2-01A).
- PRIOR TO CONSTRUCTION OR TREE REMOVAL, THE CONTRACTOR SHALL COORDINATE WITH THE UNCC CHARLOTTE CONSTRUCTION MANAGER TO DETERMINE WHICH EXISTING TREES SHALL BE TRANSPORTED BY OWNER. ALL REMAINING TREES NOT TO BE REMOVED WILL BE REMOVED.



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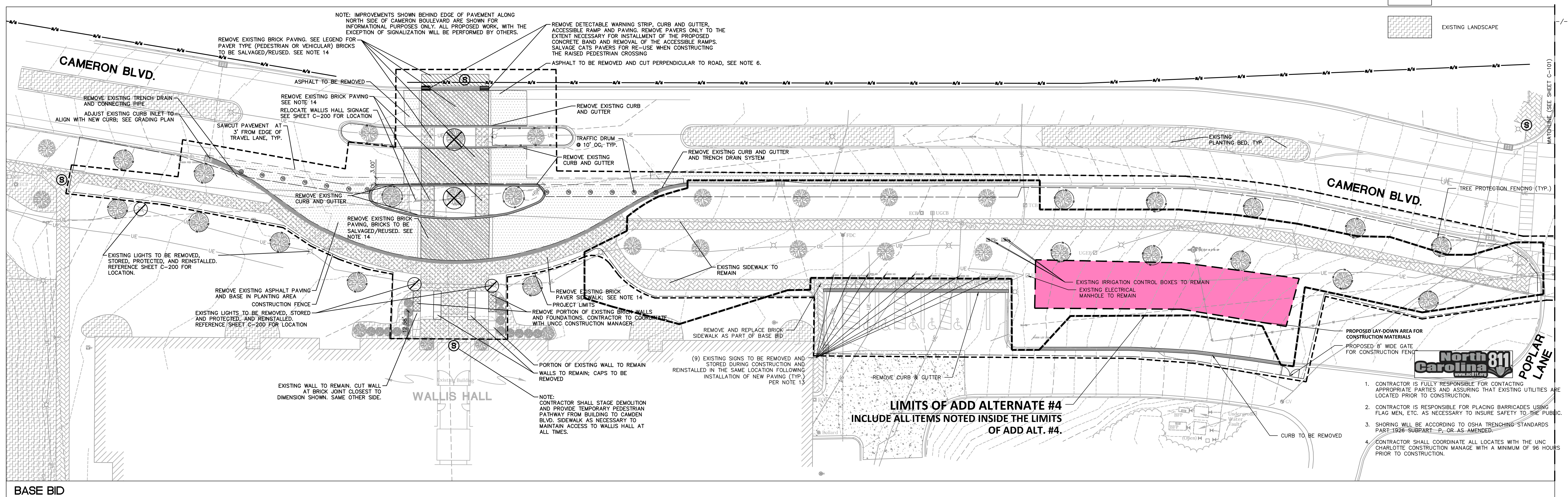
**LEGEND**

	ASPHALT TO BE REMOVED	-/-
	PEDESTRIAN PAVERS TO BE REMOVED SEE NOTE 14	-/-
	VEHICULAR PAVERS TO BE REMOVED	-/-
	CURB TO BE REMOVED	-/-
	VEGETATION TO BE REMOVED	-/-
	TREE TO BE REMOVED (SEE NOTE 18)	-/-
	EXISTING TREE (APPROXIMATE LOCATION)	-/-
	EXISTING PEDESTRIAN LIGHT POLE	-/-
	LIGHT FIXTURE TO BE RELOCATED	-/-
	TREE PROTECTION FENCING	18/C-801
	PROJECT LIMIT	-/-
	CONSTRUCTION FENCE	-/-
	SIDEWALK CLOSED SIGN	-/-
	TRAFFIC DRUM	-/-
	ADD ALTERNATE LIMITS	-/-
	EXISTING LANDSCAPE	-/-



**ADD ALTERNATE #4**

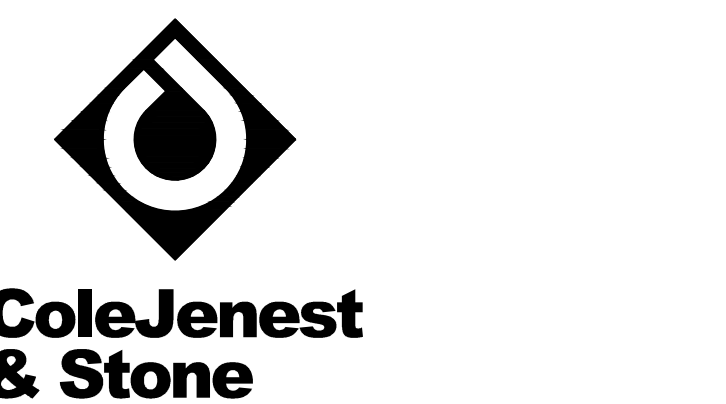
**LIMITS OF ADD ALTERNATE #4  
INCLUDE ALL ITEMS NOTED INSIDE THE LIMITS  
OF ADD ALT. #4.**



**BASE BID**

**LIMITS OF ADD ALTERNATE #4  
INCLUDE ALL ITEMS NOTED INSIDE THE LIMITS  
OF ADD ALT. #4.**

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENDING STANDARDS PART 1926 SUBPART F, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNCC CHARLOTTE CONSTRUCTION MANAGER WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.



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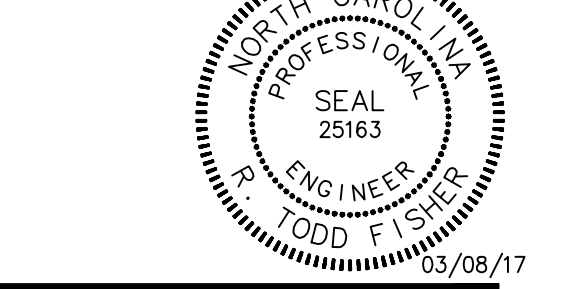
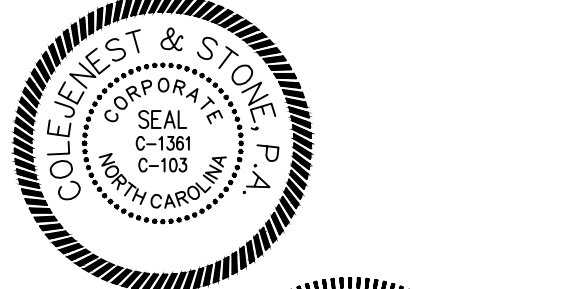
SCO ID# 16-14055  
CODE 41526 ITEM 310

**MAIN STATION -  
DEMOLITION PLAN**

Project No.  
4496

Issued  
03/08/2017 - BID SET

Revised

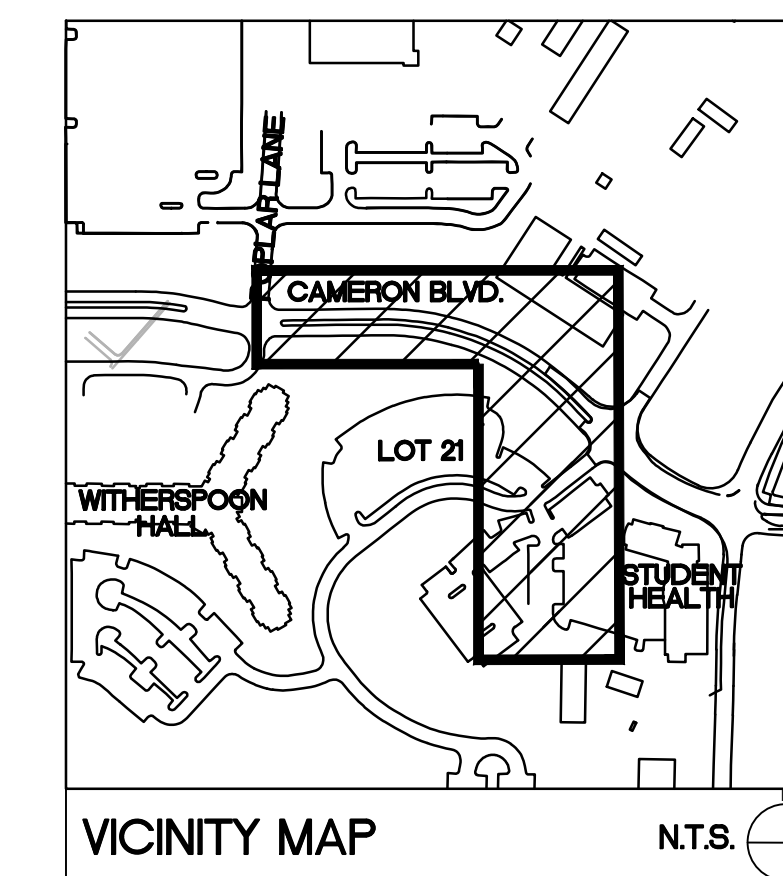
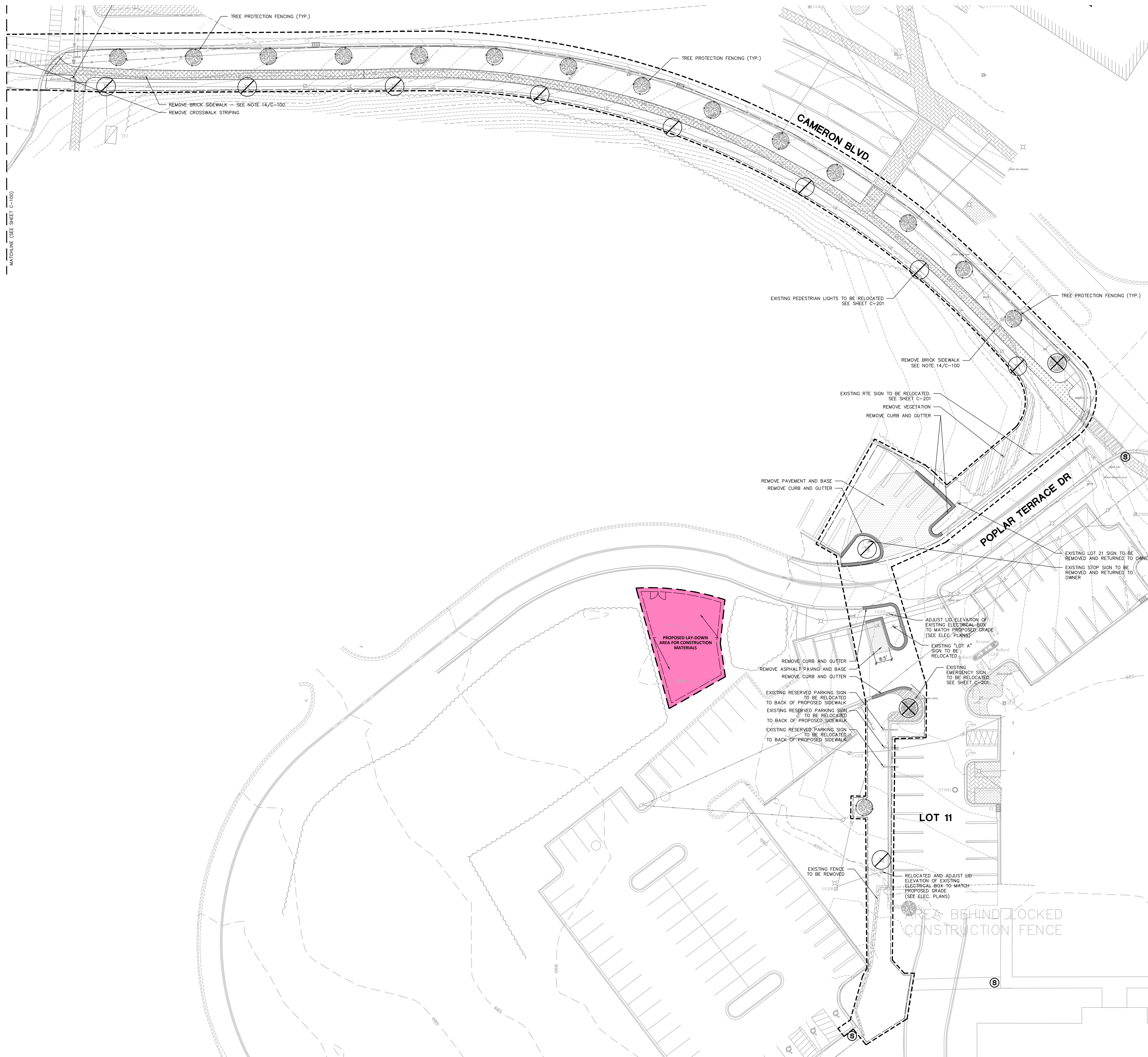


SCALE: 1"=20'  
0 10 20 40

**C-100  
(BASE BID / ALT #4)**

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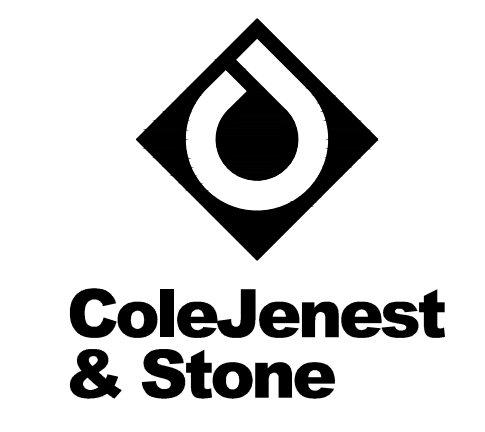


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**LEGEND**

SYMBOL	DESCRIPTION	SCALE
[Hatched pattern]	ASPHALT TO BE REMOVED	-/-
[Dotted pattern]	PAVERS TO BE REMOVED	-/-
[Solid grey]	CURB TO BE REMOVED	-/-
[Diagonal lines]	VEGETATION TO BE REMOVED	-/-
[Circle with X]	TREE TO BE REMOVED	-/-
[Circle with slash]	LIGHT FIXTURE TO BE RELOCATED	-/-
[Line with X]	TREE PROTECTION FENCING	18/C-801
[Dashed line]	PROJECT LIMIT	-/-
[Line with square]	CONSTRUCTION FENCE	-/-
[Circle with S]	SIDEWALK CLOSED SIGN	-/-
[Hatched pattern]	EXISTING LANDSCAPE	-/-

SEE SHEET C-100 FOR DEMOLITION NOTES



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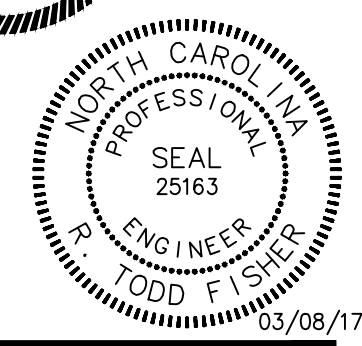
SCO ID# 16-14055  
 CODE 41526 ITEM 310

**CAMERON BLVD DEMOLITION PLAN**

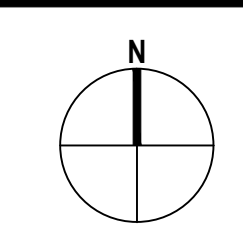
Project No.  
 4496

Issued  
 03/08/2017 - BID SET

Revised



SCALE: 1"= 20'  
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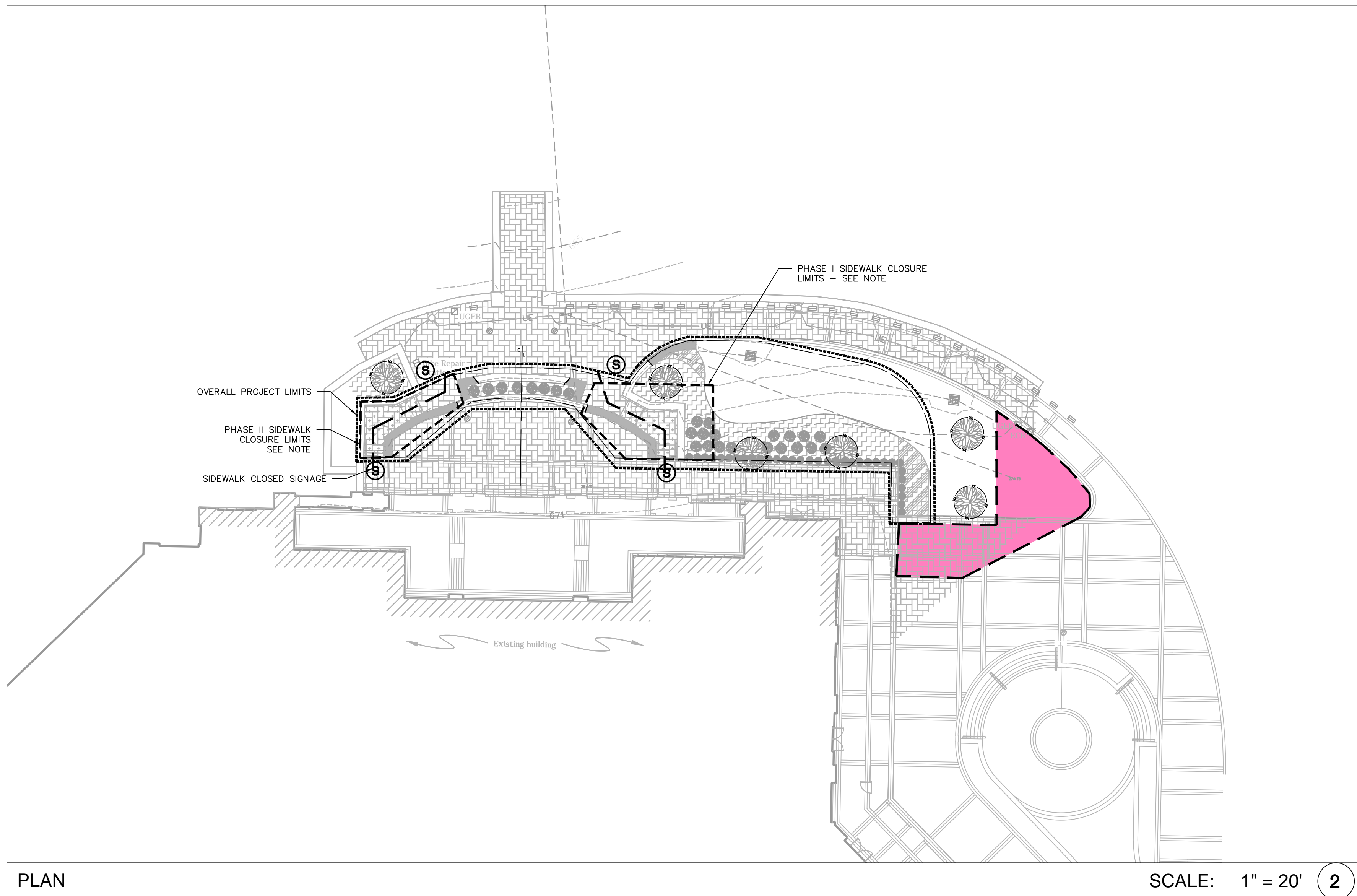
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

**C-101**  
 (ADD ALTERNATE #1)

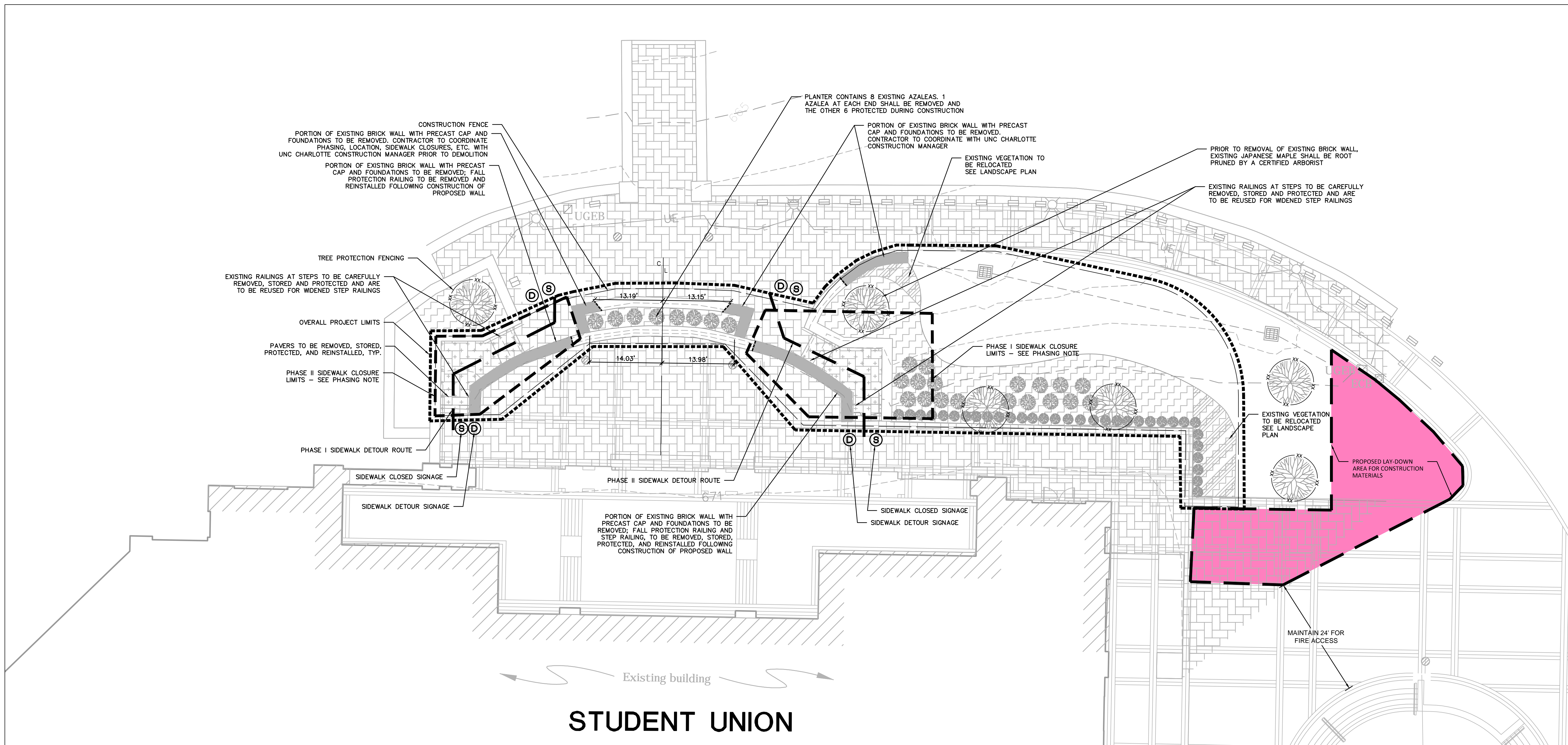
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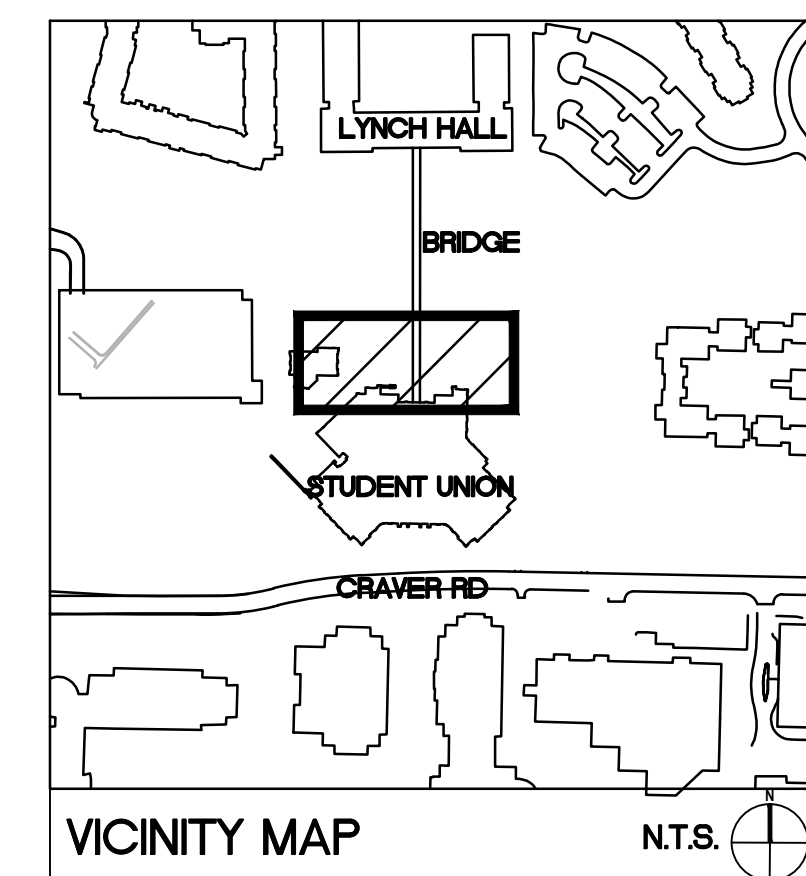




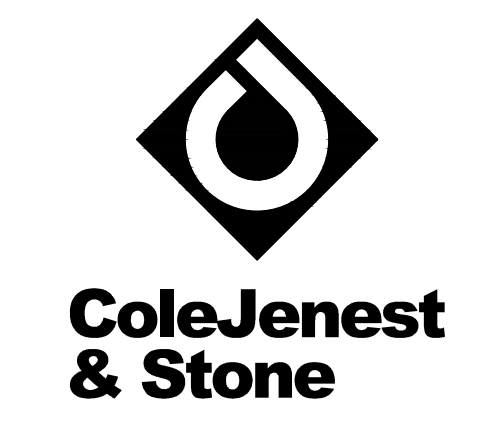
PLAN SCALE: 1" = 20' 2



ENLARGEMENT SCALE: 1" = 10' 1



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**LEGEND**

SYMBOL	DESCRIPTION	SCALE
[Symbol: Grid of small squares]	PAVERS TO BE REMOVED	-/-
[Symbol: Solid grey rectangle]	WALL TO BE REMOVED	-/-
[Symbol: Diagonal hatching]	VEGETATION TO BE RELOCATED	-/-
[Symbol: Dashed line with 'x' marks]	TREE PROTECTION FENCING	18/C-801
[Symbol: Dashed line]	PROJECT LIMIT	-/-
[Symbol: Solid line with square markers]	CONSTRUCTION FENCE	-/-
[Symbol: Circle with 'S']	SIDEWALK CLOSED SIGN	-/-
[Symbol: Circle with 'D']	SIDEWALK DETOUR SIGN	-/-
[Symbol: Stippled pattern]	EXISTING LANDSCAPE	-/-

SEE SHEET C-100 FOR DEMOLITION NOTES  
**PHASING NOTES:**  
 1. ONLY ONE SIDE OF STAIRWAY TO BE CLOSED AT ANY GIVEN TIME DURING CONSTRUCTION. REMAINING STAIR TO REMAIN OPEN TO PEDESTRIAN TRAFFIC.  
 2. ALL SIDEWALK CLOSURES SHALL BE ACCOMPANIED WITH A DETOUR SIGN AND ROUTE (SEE PLAN FOR DETAILS).

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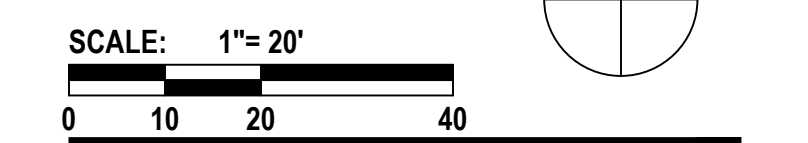
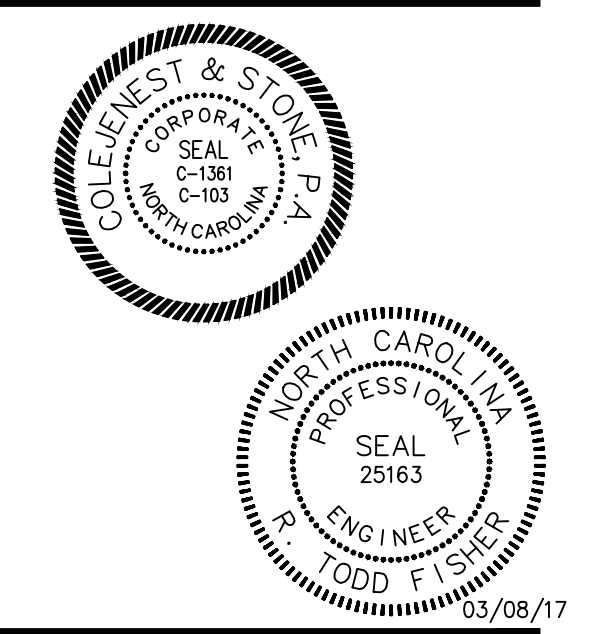
SCO ID# 16-14055  
 CODE 41526 ITEM 310

**STUDENT UNION-DEMOLITION PLAN**

Project No.  
 4496

Issued  
 03/08/2017 - BID SET

Revised

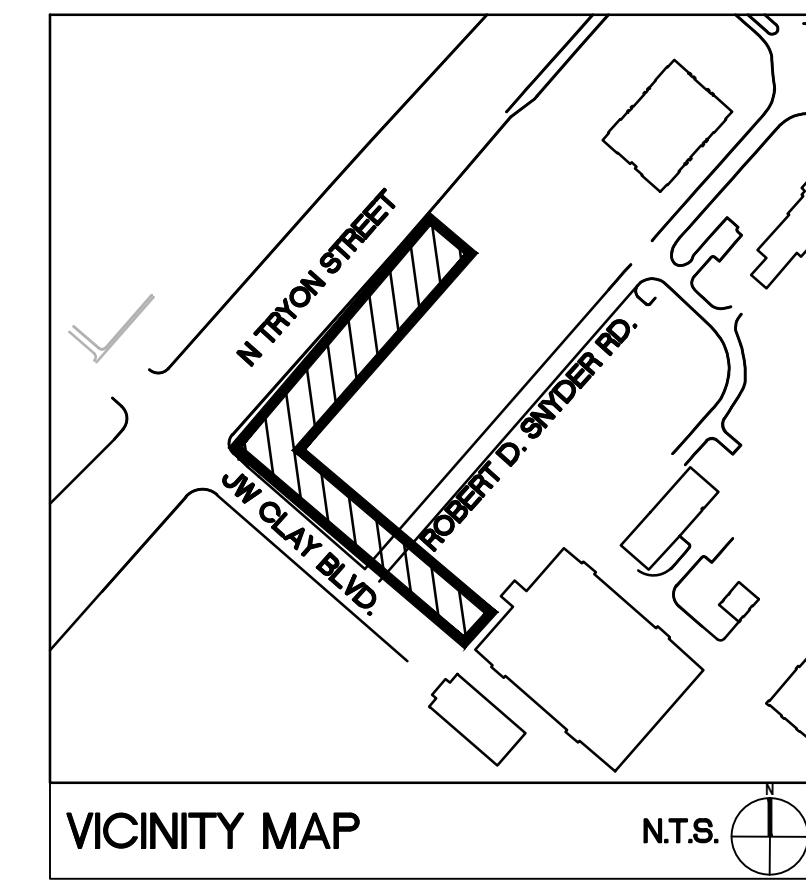
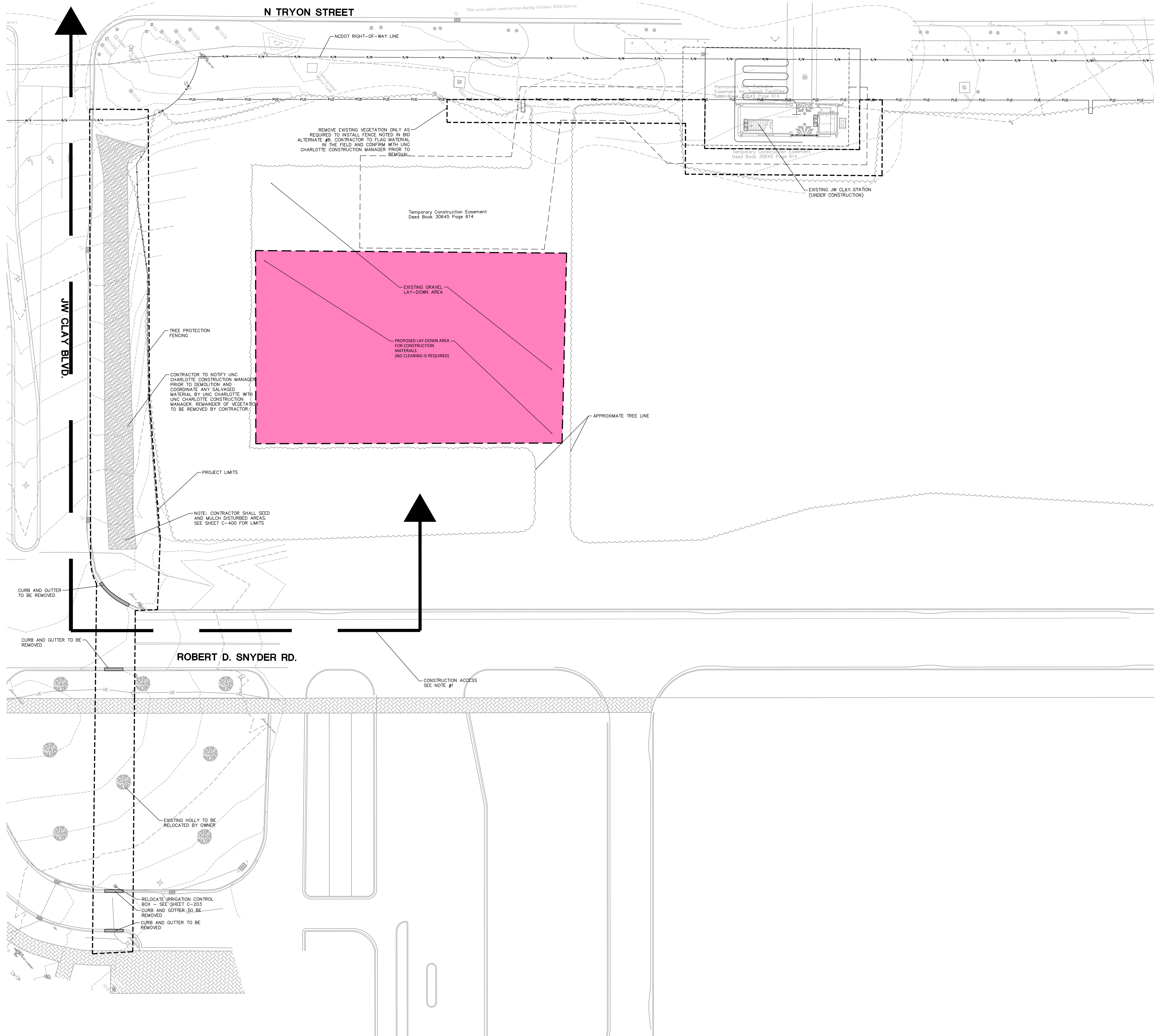


**C-102 (ADD ALTERNATE #2)**

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

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**LEGEND**

SYMBOL	DESCRIPTION	SCALE
[Symbol: Dotted pattern]	PAVERS TO BE REMOVED	-/-
[Symbol: Solid grey bar]	CURB TO BE REMOVED	-/-
[Symbol: Diagonal hatching]	VEGETATION TO BE REMOVED	-/-
[Symbol: Dashed line with 'x']	TREE PROTECTION FENCING	18/C-801
[Symbol: Dashed line]	PROJECT LIMIT	-/-
[Symbol: Solid line with square]	CONSTRUCTION FENCE	-/-
[Symbol: Circle with 'S']	SIDEWALK CLOSED SIGN	-/-
[Symbol: Stippled pattern]	EXISTING LANDSCAPE	-/-

**NOTES:**  
 1. CONTRACTOR SHALL ONLY USE THE FOLLOWING ACCESS ROUTE: N. TRYON ST., ROBERT D. SNYDER, EXISTING GRAVEL ROAD TO LAY-DOWN/STORAGE AREA.

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**CAMPUS CIRCULATION IMPROVEMENTS**

SCO ID# 16-14055  
 CODE 41526 ITEM 310

**J.W. CLAY STATION DEMOLITION PLAN**

Project No.  
**4496**

Issued  
 03/08/2017 - BID SET

Revised

SCALE: 1"= 20'  
 0 10 20 40

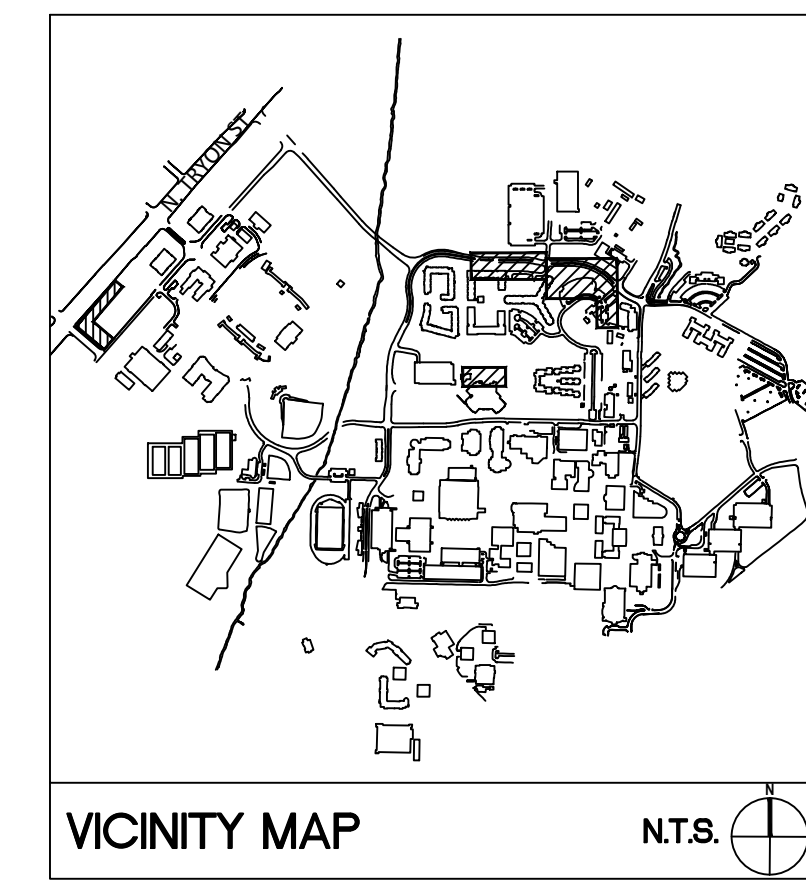
**C-103**  
 (BASE BID/ADD ALT. #7,8)

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGER WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

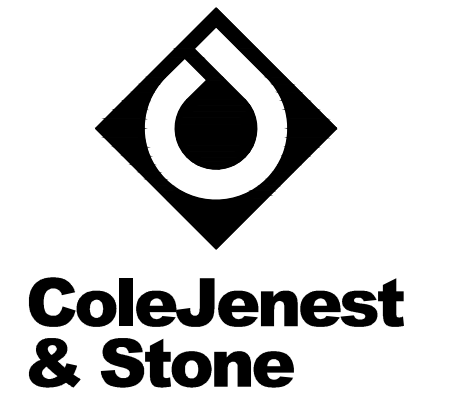
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 **BASE BID**  
 **BID ALTERNATE**



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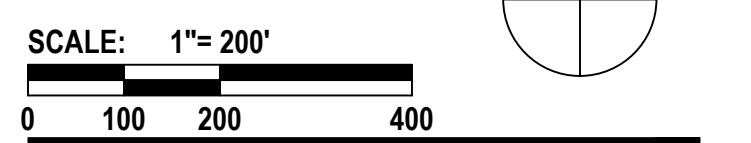
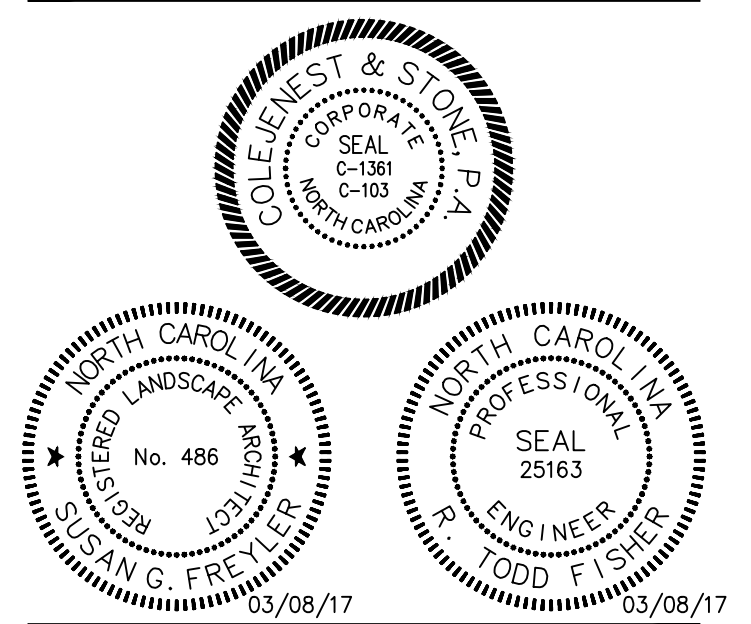
SCO ID# 16-14055  
 CODE 41526 ITEM 310

**COVER SHEET**

Project No.  
**4496**

Issued  
 03/08/2017 - BID SET

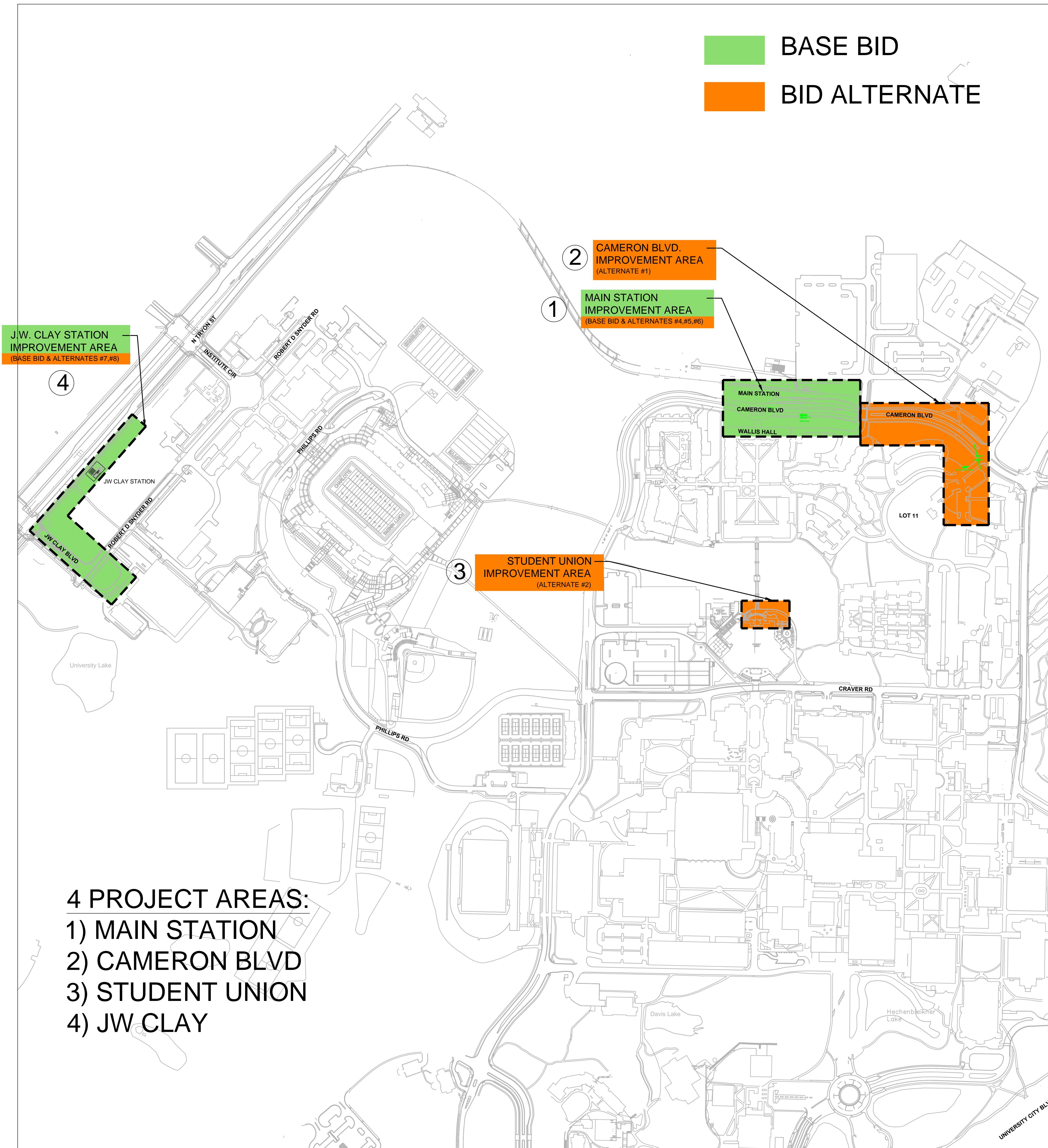
Revised



**C-000**

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**SCOPE**

BASE BID/ALT.#4  
 ADD ALT. #1  
 ADD ALT. #2  
 BASE BID/ALT. #7,8  
 BASE BID/ALT. #3,4,5  
 ADD ALT. #1  
 ADD ALT. #2  
 BASE BID/ALT. #7,8  
 BASE BID/ALT. #4,5  
 ADD ALT. #1  
 ADD ALT. #2  
 BASE BID/ALT. #7,8  
 C-400  
 ADD ALT. #1  
 C-401  
 ADD ALT. #2  
 C-402  
 BASE BID/ALT. #7,8  
 C-403  
 BASE BID/ALT.#4  
 BASE BID/ALT. #6A/6B  
 ADD ALT. #1  
 ADD ALT. #2  
 ADD ALT. #6C  
 BASE BID/ALTS.  
 BASE BID/ALTS.  
 BASE BID/ALTS.

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COMPANY: COLE JENEST & STONE	
SHEET NUMBER	SHEET TITLE
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V-101	CAMERON BLVD - EXISTING CONDITIONS
V-102	LOT 11 - EXISTING CONDITIONS
V-103	STUDENT UNION - EXISTING CONDITIONS
V-104	J.W. CLAY - EXISTING CONDITIONS
V-105	MAIN STATION - EXISTING CONDITIONS
C-100	MAIN STATION - DEMOLITION PLAN
C-101	CAMERON BLVD - DEMOLITION PLAN
C-102	STUDENT UNION - DEMOLITION PLAN
C-103	J.W. CLAY - DEMOLITION PLAN
C-200	MAIN STATION - STAKING & MATERIALS PLAN
C-201	CAMERON BLVD - STAKING & MATERIALS PLAN
C-202	STUDENT UNION - STAKING & MATERIALS PLAN
C-203	J.W. CLAY - STAKING & MATERIALS PLAN
C-400	MAIN STATION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-401	CAMERON BLVD - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-402	STUDENT UNION - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C-403	J.W. CLAY - GRADING, DRAINAGE, AND EROSION CONTROL PLAN
C-500	MAIN STATION - UTILITY PLAN
C-700	MAIN STATION - PLANTING PLAN
C-701	CAMERON BLVD - PLANTING PLAN
C-702	STUDENT UNION - PLANTING PLAN
C-703	J.W. CLAY - PLANTING PLAN
C-800	SITE DETAILS
C-801	SITE DETAILS
C-802	SITE DETAILS

BASE BID/ALT.#5  
 ADD ALT. #5

COMPANY: ALTA PLANNING AND DESIGN	
SHEET NUMBER	SHEET TITLE
C-900	MAIN STATION - SIGNAGE AND PAVEMENT MARKING PLAN
C-901	MAIN STATION - SIGNAL PLAN

BASE BID/ALTS.  
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 E-101  
 E-102  
 E-103  
 E-200  
 E-201  
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COMPANY: ELM ENGINEERING	
SHEET NUMBER	SHEET TITLE
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E-101	EXISTING ELECTRICAL POWER RISER DIAGRAM
E-102	ELECTRICAL DETAILS
E-103	PANELBOARD SCHEDULE AND DETAILS
E-200	MAIN STATION - SITE PLAN
E-201	CAMERON BLVD - SITE PLAN
E-202	STUDENT UNION - SITE PLAN

BASE BID/ALTS.  
 I-100  
 BASE BID/ALTS.  
 I-101

COMPANY: IRRIGATION INNOVATIONS	
SHEET NUMBER	SHEET TITLE
I-100	MAIN STATION - IRRIGATION PLAN
I-101	MAIN STATION - IRRIGATION DETAILS

**CONSULTANTS:**  
 ELM ENGINEERING  
 900 CENTER PARK DR.  
 CHARLOTTE, NC 28217  
 (704) 335-0396

IRRIGATION INNOVATIONS  
 4218 CAHNNAS WAY  
 WAXHAW, NC 28173  
 (704) 256-4873

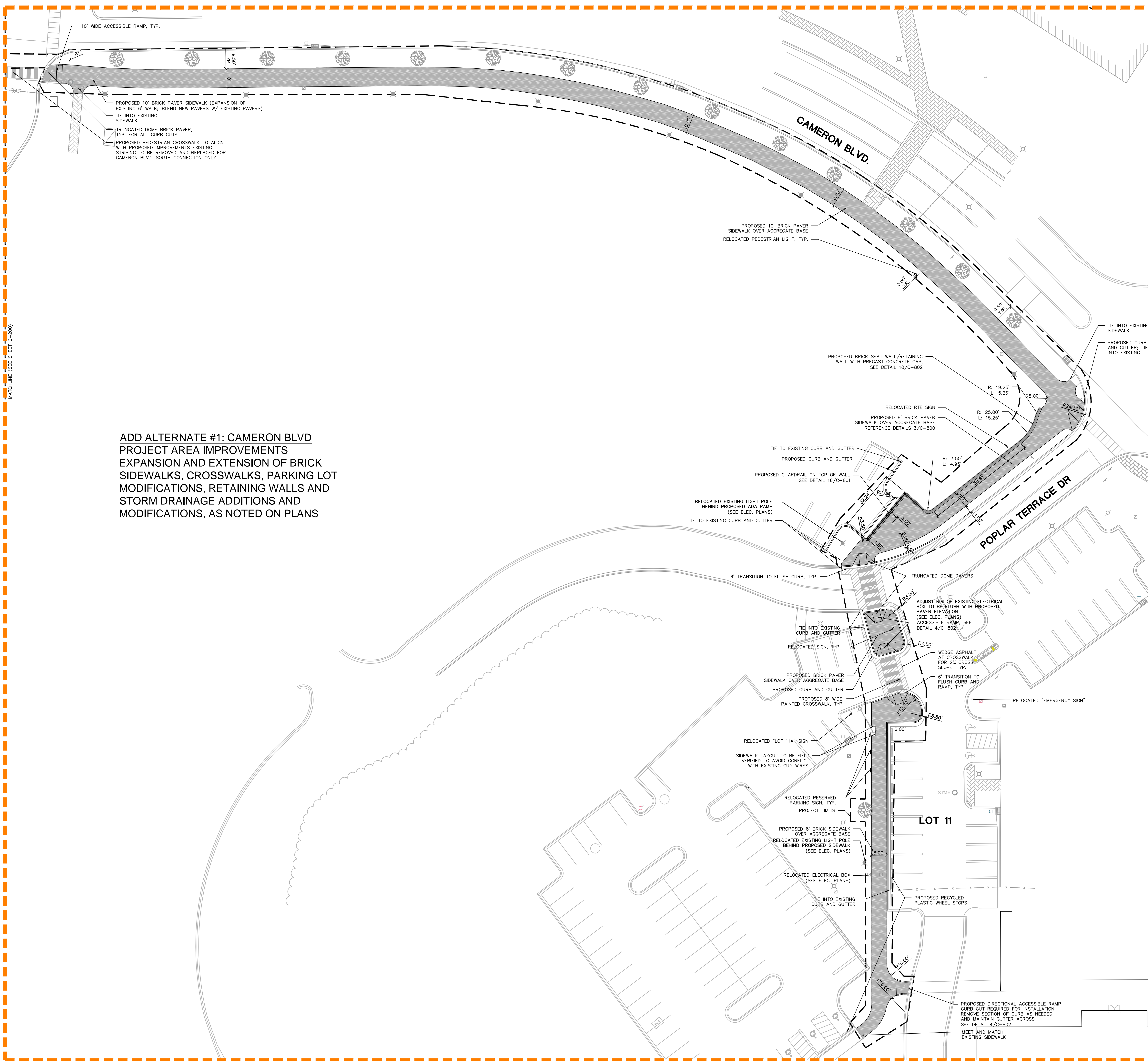
ALTA PLANNING & DESIGN  
 108 S MAIN ST  
 DAVIDSON, NC 28036  
 (704) 255-6200



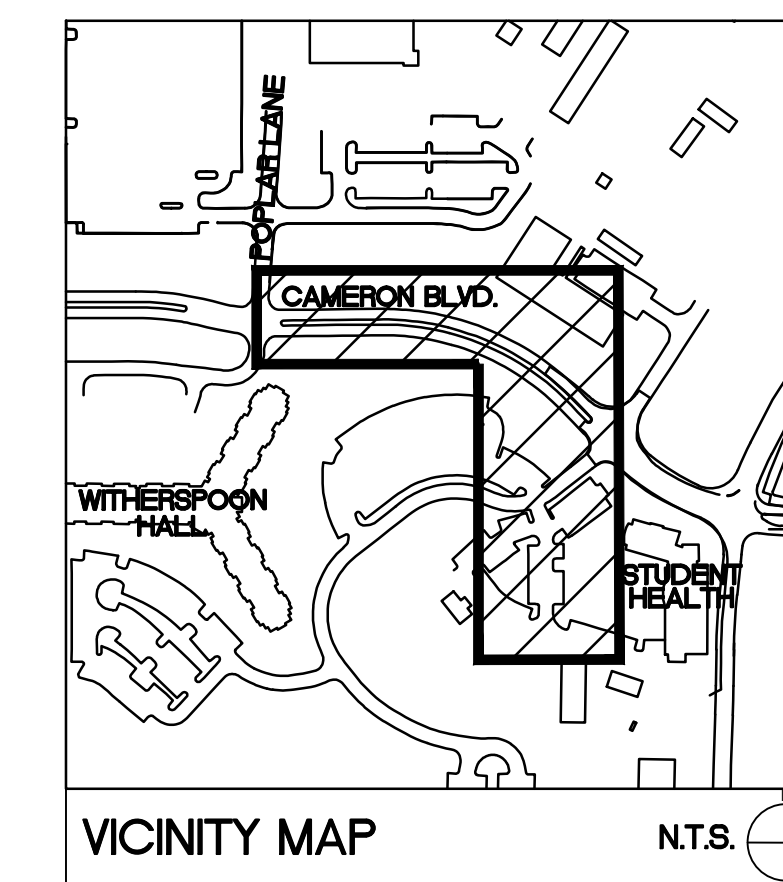
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORINGS WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

**4 PROJECT AREAS:**  
 1) MAIN STATION  
 2) CAMERON BLVD  
 3) STUDENT UNION  
 4) JW CLAY

MATCHLINE (SEE SHEET C-200)



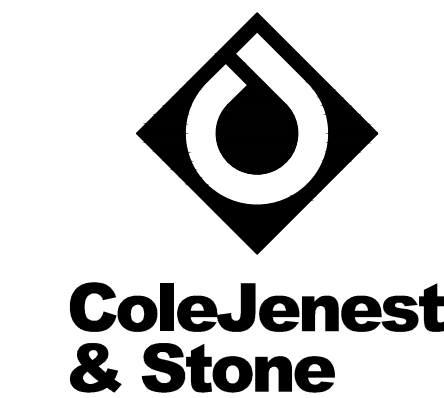
**ADD ALTERNATE #1: CAMERON BLVD PROJECT AREA IMPROVEMENTS**  
 EXPANSION AND EXTENSION OF BRICK SIDEWALKS, CROSSWALKS, PARKING LOT MODIFICATIONS, RETAINING WALLS AND STORM DRAINAGE ADDITIONS AND MODIFICATIONS, AS NOTED ON PLANS



**SURVEY DISCLAIMER**  
 TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.  
 PROVIDED BY ALLEN GEOMATICS, P.C., PO BOX 89 ADVANCE, NC, 27006 336-998-0218.

SYMBOL	DESCRIPTION	DETAIL
[Pattern]	PROPOSED BRICK SIDEWALK	1-4/C-800
[Pattern]	PROPOSED ACCESSIBLE RAMP	4/C-802
[Pattern]	PROPOSED 1'-6" CURB & GUTTER	10/C-800
[Symbol]	EXISTING PEDESTRIAN LIGHTING	-/-
[Symbol]	RELOCATED PEDESTRIAN LIGHTING	-/-
[Symbol]	PROJECT LIMIT	-/-
[Pattern]	PROPOSED ASPHALT PATCH	3/C-801

SEE SHEET C-200 FOR STAKING NOTES



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- Urban Design

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 Charlotte, North Carolina 28202  
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 url= www.colejeneststone.com

**UNC-CHARLOTTE**

9201 University City Blvd  
 Charlotte, NC 28223

**CAMPUS CIRCULATION IMPROVEMENTS**

SCO ID# 16-14055  
 CODE 41526 ITEM 310

**CAMERON BLVD - STAKING AND MATERIALS PLAN**

Project No.

4496

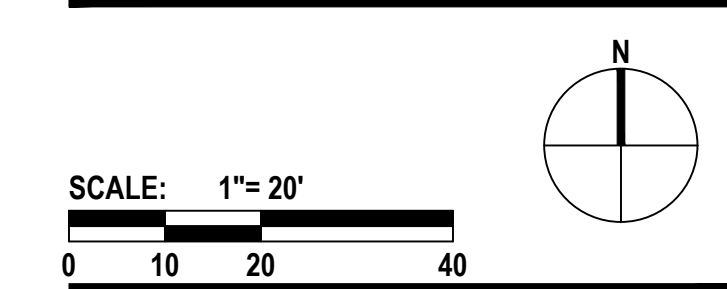
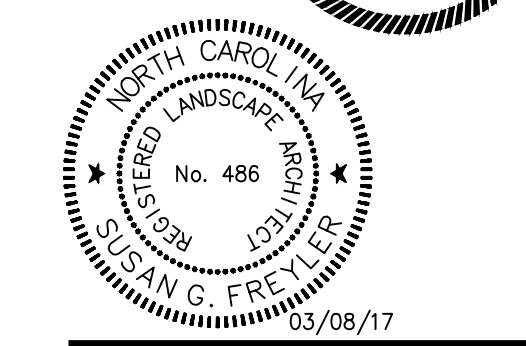
Issued

03/08/2017 - BID SET

Revised

**ALT #1**

ALL WORK SHOWN ON THIS PLAN INCLUDING:  
 DEMOLITION - C-101  
 GRADING & DRAINAGE - C-401  
 PLANTING - C-701  
 ELECTRICAL - E-201

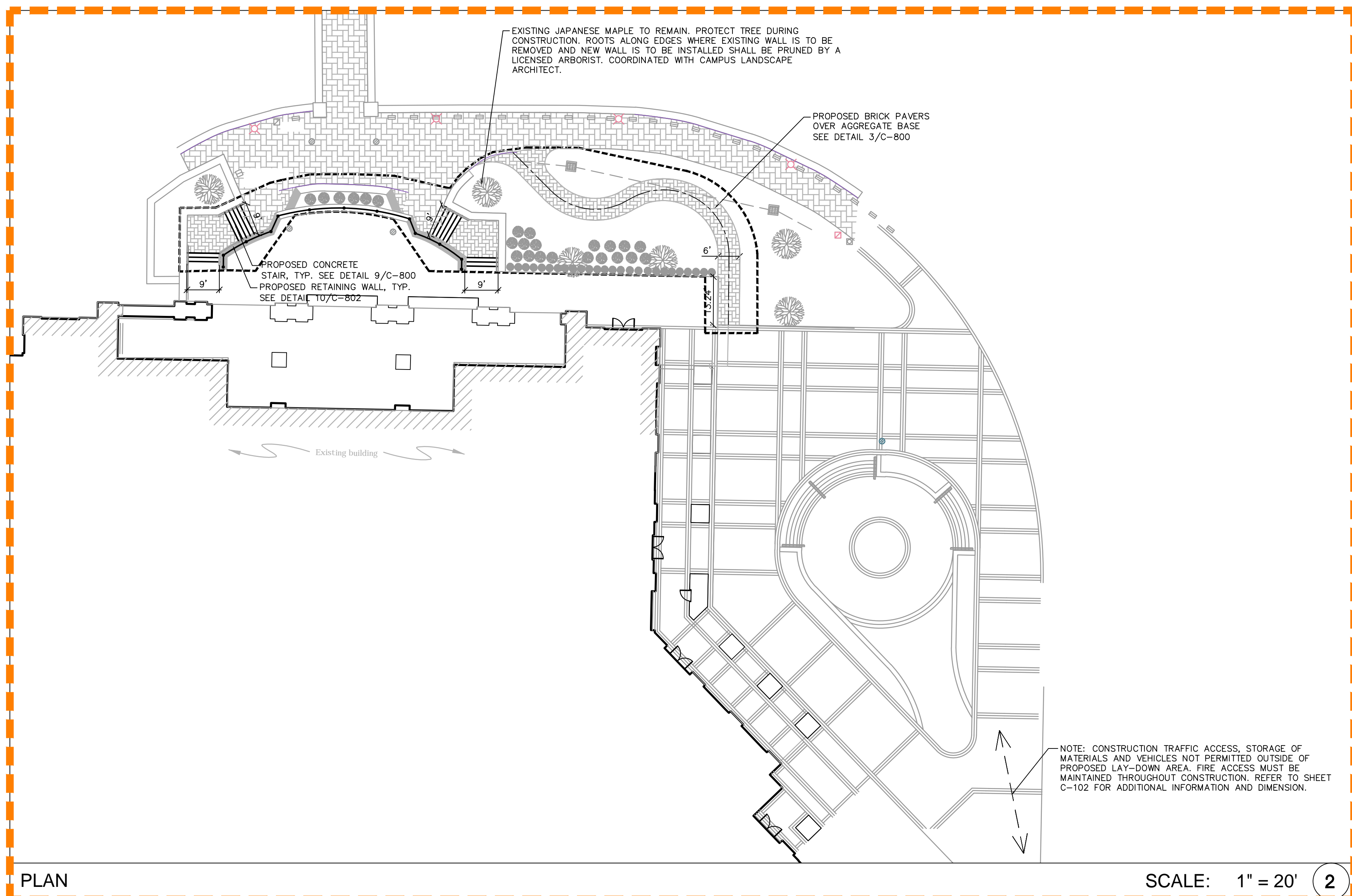


- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

**C-201 (ADD ALTERNATE #1)**

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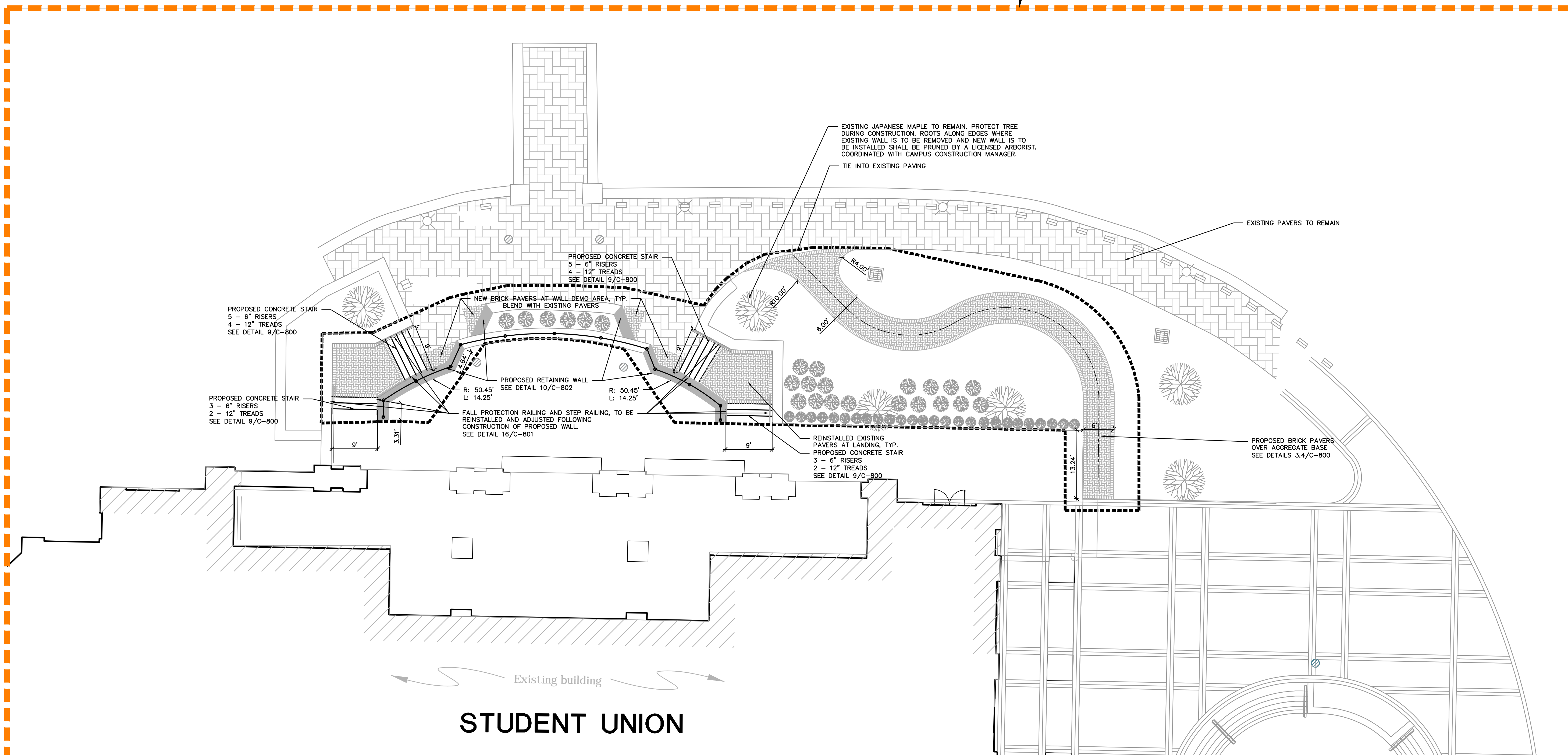
ColeJenest & Stone, P.A. 2016 ©



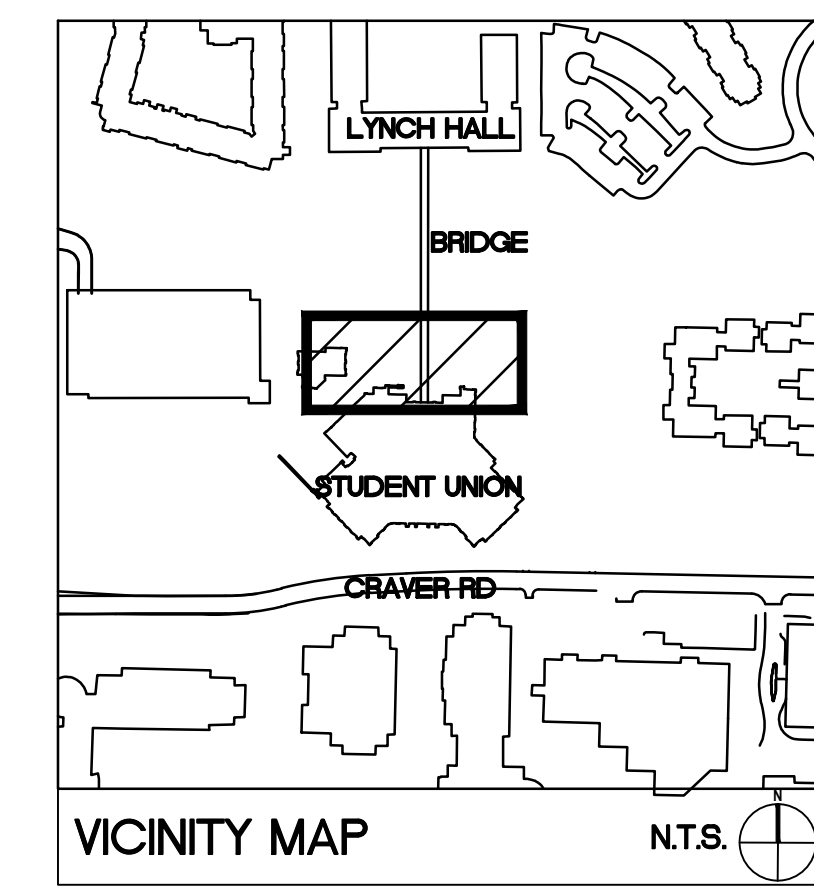
ALT #2

ADD ALTERNATE #2: STUDENT UNION PROJECT AREA IMPROVEMENTS EXPANSION AND EXTENSION OF BRICK SIDEWALKS, STAIRS, RETAINING WALLS AND RAILINGS AS NOTED ON PLANS

PLAN



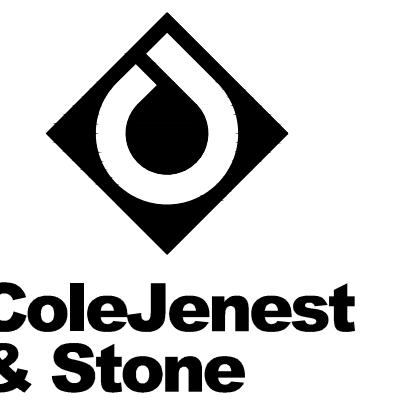
ENLARGEMENT



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 TOPOGRAPHIC SURVEY ISSUE DATE NOVEMBER 7, 2016.  
 PROVIDED BY ALLEN GEOMATICS, P.C., PO BOX 89 ADVANCE, NC, 27006 336-998-0218

SYMBOL	DESCRIPTION	DETAIL
[Pattern]	PROPOSED BRICK SIDEWALK	1-4/C-800
[Pattern]	EXISTING BRICK SIDEWALK	-/-
[Symbol]	PROPOSED LIGHTING	-/-
[Symbol]	PROJECT LIMIT	-/-

SEE SHEET C-200 FOR STAKING NOTES



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 + Urban Design

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 p+ 704 376 1555 f+ 704 376 7851  
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9201 University City Blvd  
 Charlotte, NC 28223

CAMPUS  
 CIRCULATION  
 IMPROVEMENTS

SCO ID# 16-14055  
 CODE 41526 ITEM 310

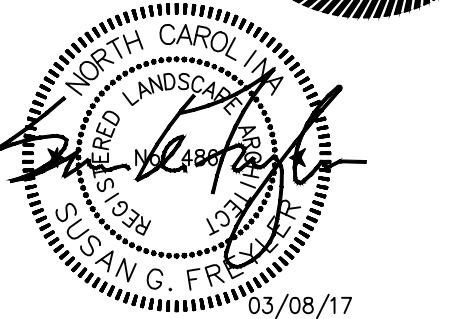
STUDENT UNION  
 - STAKING AND  
 MATERIALS  
 PLAN

Project No.  
 4496

Issued  
 03/08/2017 - BID SET

Revised

ADD ALTERNATE #2:  
 ALL WORK SHOWN ON THIS PLAN  
 INCLUDING:  
 DEMOLITION - C-102  
 GRADING & DRAINAGE - C-402  
 PLANTING - L-702  
 ELECTRICAL - E-202



03/08/17

SCALE: 1" = 20'  
 0 10 20 40

C-202  
 (ADD ALTERNATE #2)

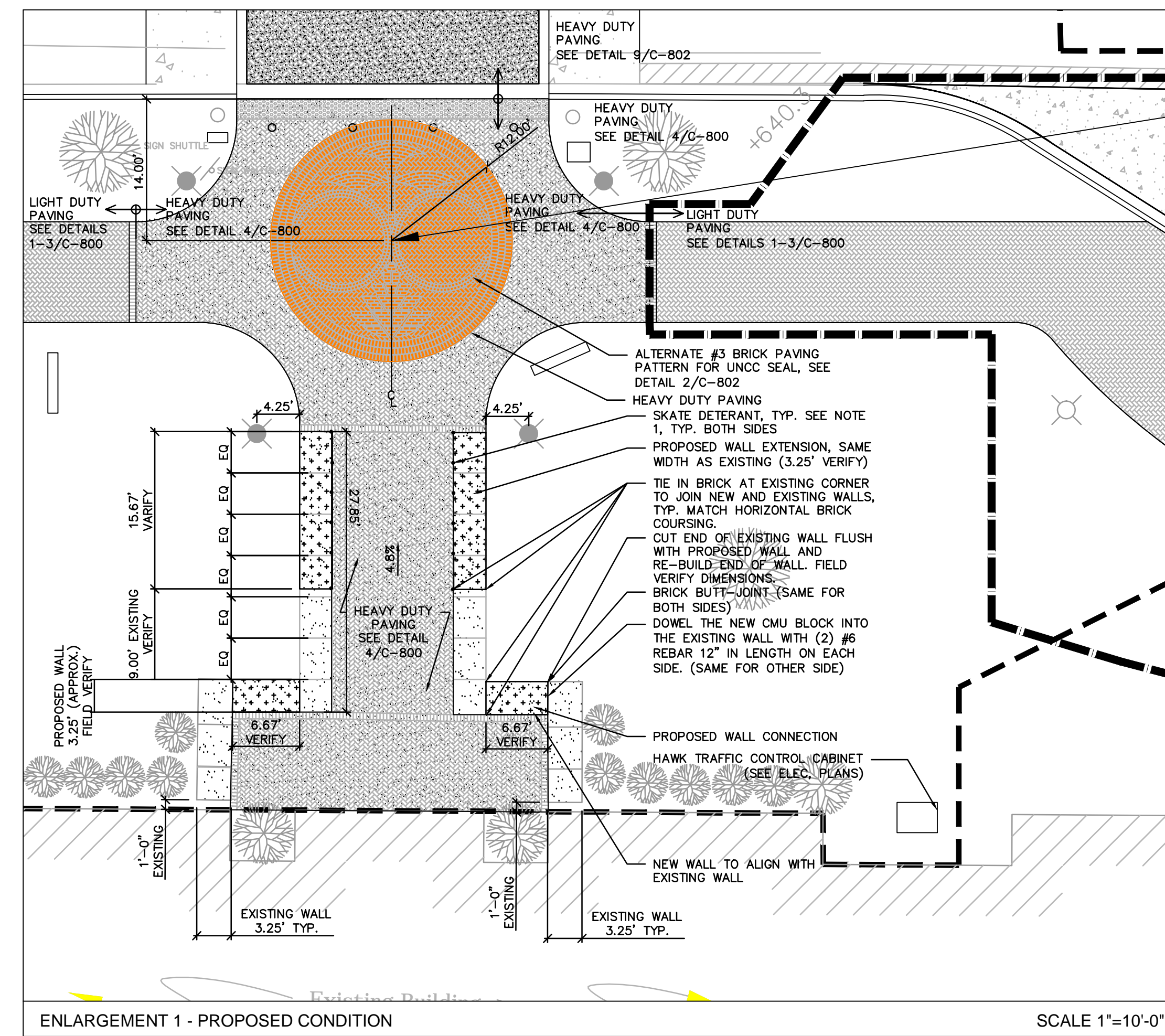
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.

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**STAKING AND MATERIALS NOTES**

1. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, OR CENTERLINE UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE AT 90 DEGREES UNLESS OTHERWISE NOTED.
3. ALL BACK OF CURB RADI AT PARKING LOT ISLANDS ARE 4.5- FEET UNLESS OTHERWISE NOTED.
4. PARKING STALL DIMENSIONS ARE 18.0' (TO FACE OF CURB) X 9.0' WIDE UNLESS OTHERWISE NOTED.
5. ALL BACK OF CURB RADI AT ROADWAY INTERSECTIONS SHALL BE 20- FEET UNLESS OTHERWISE NOTED.
6. NOT USED.
7. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE CALLED TO THE ATTENTION OF THE UNC CHARLOTTE CONSTRUCTION MANAGER AND DESIGNER PRIOR TO PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF UTILITIES, EASEMENTS, AND RIGHTS-OF-WAY, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
9. ALL ASPHALT PAVING SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, LATEST EDITION.
10. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
11. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. ALL PARKING STALLS SHALL BE CONSTRUCTED PER THE UNC CHARLOTTE CAMPUS STANDARD PARKING SPACE DIMENSIONS AND STRIPING.
13. STOP SIGNS SHALL BE R1-1, 30"x30", SEE SHEET C-900 FOR ADDITIONAL DETAIL.
14. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
15. NO DEMOLITION LANDFILLS ALLOWED ON SITE.
16. ALL RELOCATED PEDESTRIAN LIGHT POLES, LOCATED ALONG THE PEDESTRIAN SIDEWALKS, SHALL BE INSTALLED 18" CLEAR, MEASURED FROM BASE OF FIXTURE TO EDGE OF PEDESTRIAN SIDEWALK.
17. FOR RELOCATED WALLS HALL SIGN, USE FOOTING DETAIL SIMILAR TO DIRECTIONAL SIGNAGE DETAIL ON SHEET C-900. STAKE IN FIELD, FOR REVIEW BY CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



- NOTES:
1. REMOVE AND REPLACE WITH NEW PRECAST CAP AND SKATE DETERRENTS TO MATCH EXISTING. PLACE +/- 3' O.C. ON RAMP SIDE OF PRECAST CONCRETE CAP. SEE DETAIL.
  2. REMOVE PEDESTRIAN PAVERS AND REPLACE WITH VEHICULAR PAYER.
  3. SEE GRADING PLAN C-400 FOR PAVEMENT AND WALL ELEVATIONS.

**ALT #3**

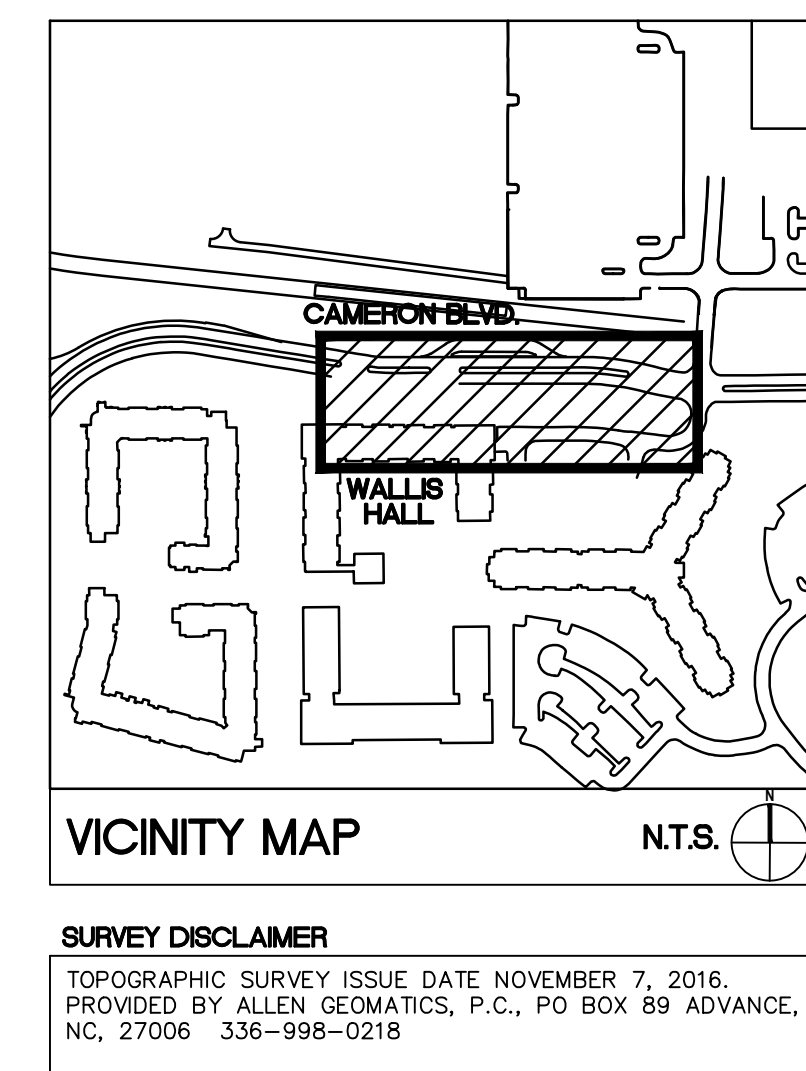
**ALTERNATE #3: BRICK SEAL PAVING PATTERN IN SIDEWALK CONSTRUCTION OF BRICK UNC-CHARLOTTE SEAL PAVING**

**ALTERNATE #4: ADD BUS DROP-OFF AND WIDEN SIDEWALK AT THE MAIN STATION HEAVY-DUTY CONCRETE PAVING, WIDENING EXISTING BRICK WALK TO 8', ADDING ADDITIONAL CURB AND GUTTER, REMOVAL OF TREES, PLANTING NEW TREES, NEW EMERGENCY BLUE LIGHT AND ADDITIONAL PEDESTRIAN LIGHT RELOCATIONS. NOT INCLUDING LANDSCAPE OTHER THAN TREES; LANDSCAPE IS PRICED UNDER ALTERNATE 6B. SEED**

ALSO SEE: IRRIGATION - MAIN STATION  
ELECTRICAL - MAIN STATION

**ALTERNATE #5: ADD SIGNALIZED INTERSECTION AT THE MAIN STATION ADD PEDESTRIAN AND TRAFFIC SIGNAL POLES, BASES, ELECTRICAL BOXES AND PANELS, WIRING AND SIGNAL HEADS**

ALSO SEE: ELECTRICAL - MAIN STATION  
SIGNAL PLAN - MAIN STATION



**LEGEND**

SYMBOL	DESCRIPTION	DETAIL
[Pattern]	EXISTING BRICK SIDEWALK	-/-
[Pattern]	PROPOSED ACCESSIBLE RAMP	4/C-802
[Pattern]	PROPOSED 1'-6" CURB & GUTTER	10/C-800
[Symbol]	EXISTING PEDESTRIAN LIGHTING	-/-
[Symbol]	RELOCATED PEDESTRIAN LIGHTING	-/-
[Symbol]	PEDESTRIAN SIGNALIZATION	-/-
[Pattern]	PROPOSED CONCRETE PAVING	11/C-800
[Pattern]	PROPOSED ASPHALT PATCH	13/C-801
[Pattern]	LIGHT DUTY BRICK PAVING	4/C-800
[Pattern]	HEAVY DUTY BRICK PAVING	4/C-800
[Symbol]	PROJECT LIMIT	-/-
[Symbol]	ADD ALTERNATE LIMITS	-/-
[Pattern]	PROPOSED HEAVY DUTY CONCRETE PAVING (ADD ALT. #4)	5/C-801
[Pattern]	PROPOSED LIGHT DUTY ASPHALT PAVING	1/C-801
[Symbol]	EXISTING BRICK PAVING TO REMAIN	-/-
[Symbol]	WHEEL STOP	9/C-801

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**CAMPUS CIRCULATION IMPROVEMENTS**

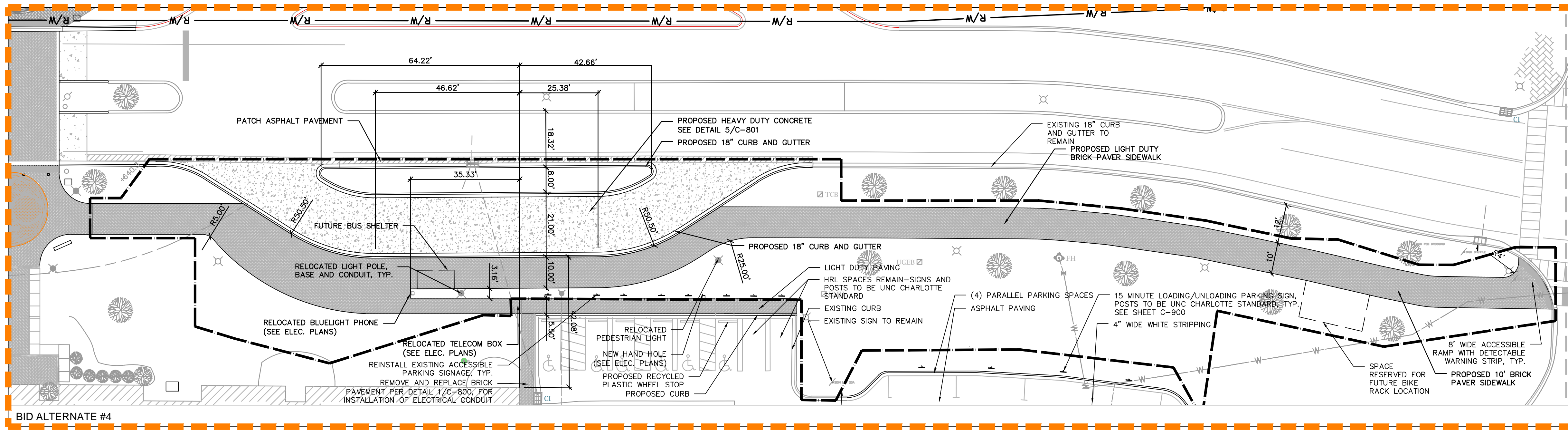
SCO ID# 16-14055  
CODE 41526 ITEM 310

**MAIN STATION - STAKING AND MATERIALS PLAN**

Project No. 4496

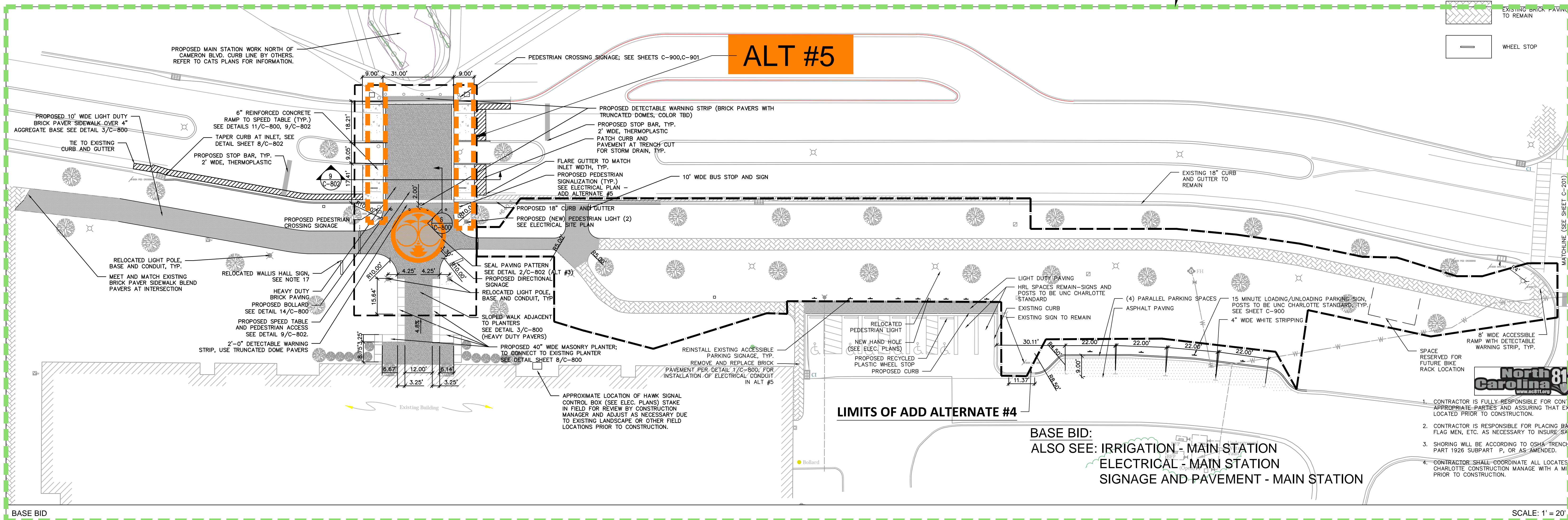
Issued 03/08/2017 - BID SET

Revised



**ALT #4  
BASE BID**

- ADD ALTERNATE #3 - BRICK SEAL PAVING PATTERN IN WALK
- ADD ALTERNATE #4 - BUS DROP-OFF LANE AND SIDEWALK EXPANSION EAST OF WALLIS HALL
- ADD ALTERNATE #5 - SIGNALIZED PEDESTRIAN CROSSING



**ALT #5**

**LIMITS OF ADD ALTERNATE #4**

**BASE BID:  
ALSO SEE: IRRIGATION - MAIN STATION  
ELECTRICAL - MAIN STATION  
SIGNAGE AND PAVEMENT - MAIN STATION**

Professional Engineer Seal for ColeJenest & Stone, P.A., No. 486, State of North Carolina, expires 12/31/17.

Professional Engineer Seal for Megan G. Freese, No. 1751, State of North Carolina, expires 12/31/17.

SCALE: 1" = 20'

**C-200**  
(BASE BID/ALT #3,4,5)

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**PLANT SCHEDULE** BASE BID

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5,259 SQ. FT.	SEED (SEE SPECIFICATIONS)	-	-

**PLANT SCHEDULE** ALTERNATE #6A

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
2	LIVE OAK	4" CAL.	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT.	AS SHOWN
50	LEUCOTHOE 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
5,259 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-

**ADD ALT #6A**

**PLANT SCHEDULE** ALTERNATE #6B

QUANTITY	PROPOSED PLANT TYPE	PROPOSED PLANT SIZE	PLANT SPACING
5	'WIRT L. WNN' HOLLY	7"-8" HT.	AS SHOWN
3	LIVE OAK	4" CAL.	AS SHOWN
2	CAMELLIA 'MAGNOLIAEFLORA'	36"-48" HT.	AS SHOWN
50	LEUCOTHOE 'RAINBOW'	18"-24" SPR.	AS SHOWN
160	'WHITE PEARL' LENTEN ROSE	8"-12" HT.	AS SHOWN
364	LIRIOPE SPICATA	8"-12" HT.	AS SHOWN
9,857 SQ. FT.	SOD (SEE SPECIFICATIONS)	-	-

**ADD ALT #6B**

**PLANTING NOTES**

- SIZE AND GRADING STANDARDS OF PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF "USA STANDARDS FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSERYMAN, INC.
- HEIGHT AND WIDTH SPECIFICATIONS INDICATED ON PLAN SHALL TAKE PRECEDENCE OVER CONTAINER SIZE AND CALIPER.
- CONTRACTOR SHALL MULCH ALL SHRUB BEDS WITH 4" AGED SHREDDED HARDWOOD BARK; CONTRACTOR SHALL MULCH ALL ANNUAL/PERENNIAL BEDS WITH 1" PINE BARK FINES.
- ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL BE SEED BY THE CONTRACTOR (BASE BID) OR SODDED BY THE CONTRACTOR (BID ALT 6A/6B).
- CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL, OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
- IN AREAS WHERE CONSTRUCTION GRAVEL IS EMBEDDED IN THE SOIL, CONTRACTOR SHALL REMOVE CONTAMINATED SOIL TO A DEPTH OF 18" AND FILL WITH CLEAN TOPSOIL. CONTRACTOR SHALL IMPORT TOPSOIL AT NO CHARGE TO OWNER IF REQUIRED TO FILL THESE EXCAVATIONS.
- CONTRACTOR SHALL RESOD LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.
- ALL STRAPPING AND TOP 2/3 OF WIRE BASKET SHALL BE CUT AWAY AND REMOVED BY THE CONTRACTOR FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. CONTRACTOR SHALL REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.

FOR NEW TREE PLANTING AREAS, CONTRACTOR SHALL REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR AMEND THE TOP 24" OF EXISTING SOIL, TO MEET SPECIFIED TOPSOIL/PLANTING MIX STANDARDS FOR TREES, INCLUDE IN BASE BID.

9. LARGE MATURING TREES SHALL BE A MINIMUM 25 TO 30 FEET FROM OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.

10. MINIMUM TREE SIZE AT PLANTING SHALL BE 3 INCH CALIPER FOR LARGE MATURING TREES AND 2 INCH CALIPER FOR SMALL MATURING TREES. ALL MULTI-STEM PLANTS SHALL BE TREE FORM, MAXIMUM THREE TO FIVE TRUNKS, AND A MINIMUM EIGHT FEET TALL.

11. INSTALLER SHALL BE RESPONSIBLE TO REPAIR OR REPLACE PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD (ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER).

12. FOR SEEDED AREAS, AN ACCEPTABLE LAWN AT THE END OF THE MAINTENANCE PERIOD SHALL CONSIST OF A HEALTHY, UNIFORM, CLOSE STAND OF GRASS, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH TOTAL GRASS COVERAGE EXCEEDING 80 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES, WITH AT LEAST 80% OF THE TOTAL GRASS COVERAGE CONSISTING OF THE SPECIFIED GRASS SPECIES.

13. ANY AND ALL DAMAGE TO EXISTING IRRIGATION SYSTEM IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. CONTRACTOR TO COORDINATE WITH CONSTRUCTION MANAGER TO ENSURE IRRIGATION TEAM INSPECTS THE REPAIR WORK BEFORE IT IS COVERED UP.

**LEGEND**

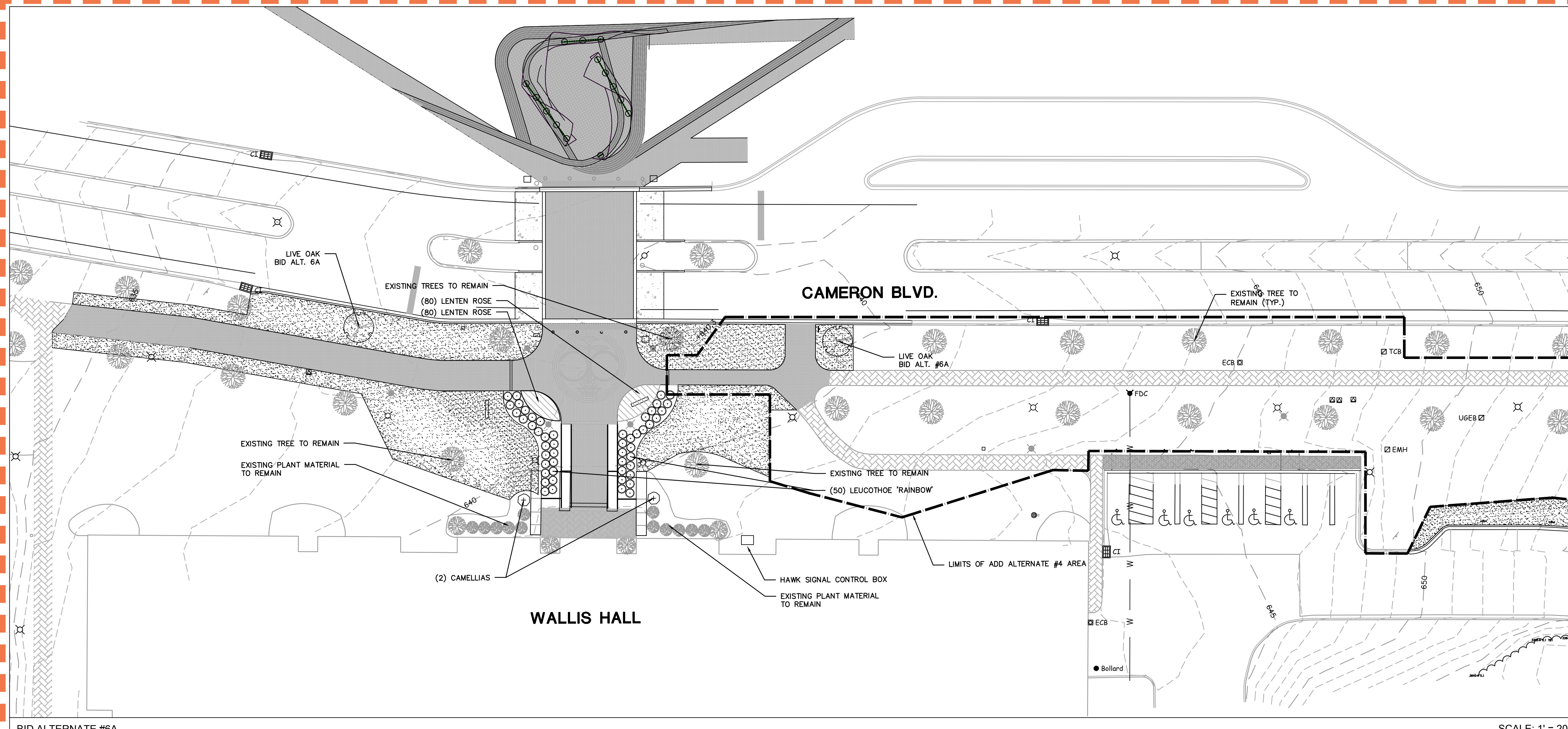
SYMBOL	DETAIL
(Dashed line)	EXISTING TREELINE --/
(Solid line)	PROPOSED TREELINE --/
(Circle with cross)	EXISTING TREE --/
(Circle with dot)	PROPOSED TREE 17/C-801
(Circle with cross-hatch)	PROPOSED SHRUBS 17/C-801
(Stippled pattern)	PROPOSED GROUNDCOVER --/
(Dotted pattern)	PROPOSED SOD --/
(Square with dot)	PROPOSED LIGHT FIXTURE SEE ELECTRICAL PLAN --/

**TREE PROTECTION NOTES**

- TREE PROTECTION FENCING MUST BE INSTALLED BEFORE ANY DEMOLITION, CLEARING OR GRADING BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- THE TREE PROTECTION FENCE SHALL BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA (DRAIN LINE PLUS 5 FEET). TREE PROTECTION FENCING FOR A FOREST CANOPY STAND AREA IS TO BE LOCATED ALONG THE PERIMETER OF THE TREE SAVE AREA AROUND THE FOREST EDGE. TREE PROTECTION FENCING SHALL CONSIST OF ORANGE SAFETY FENCING OR A COMBINATION OF ORANGE SAFETY FENCING WITH SILT FENCING AT A MINIMUM OF 4 FEET IN HEIGHT ON METAL OR WOOD POSTS.
- NO SOIL DISTURBANCE OR CONSTRUCTION, STOCK PILING OF SOIL OR OTHER CONSTRUCTION MATERIAL, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT AND MATERIALS ARE ALLOWED WITHIN THE TREE SAVE AREA.
- NO ROPES, SIGNS, WIRES, UNPROTECTED ELECTRICAL INSTALLATION OR OTHER DEVICE OR MATERIAL, SHALL BE SECURED OR FASTENED AROUND OR THROUGH A TREE OR SHRUB.
- ALL PROTECTIVE MEASURES SHALL BE MAINTAINED THROUGHOUT THE LAND DISTURBING AND CONSTRUCTION PROCESS, AND SHALL NOT BE REMOVED UNTIL FINAL LANDSCAPING IS INSTALLED.

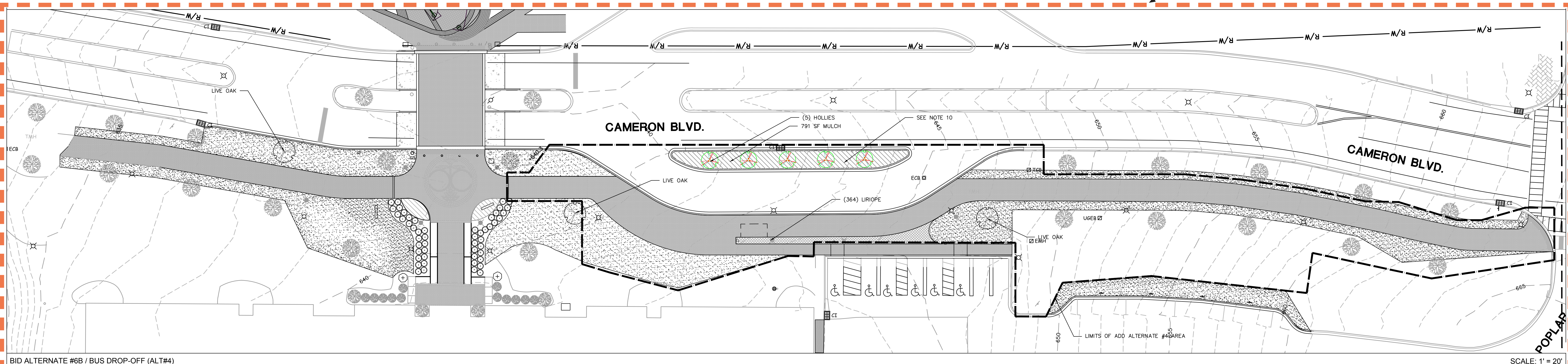
**ADD ALT #6A**

**ADD ALT #6B**



BID ALTERNATE #6A

SCALE: 1" = 20'



BID ALTERNATE #6B / BUS DROP-OFF (ALT#4)

SCALE: 1" = 20'

**BASE BID: DOES NOT INCLUDE ANY PLANT MATERIAL OTHER THAN SEEDING/MULCHING DISTURBED AREAS**

**BASE BID**

- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.



**C-700**  
(BASE BID/ALT. #6A/6B)

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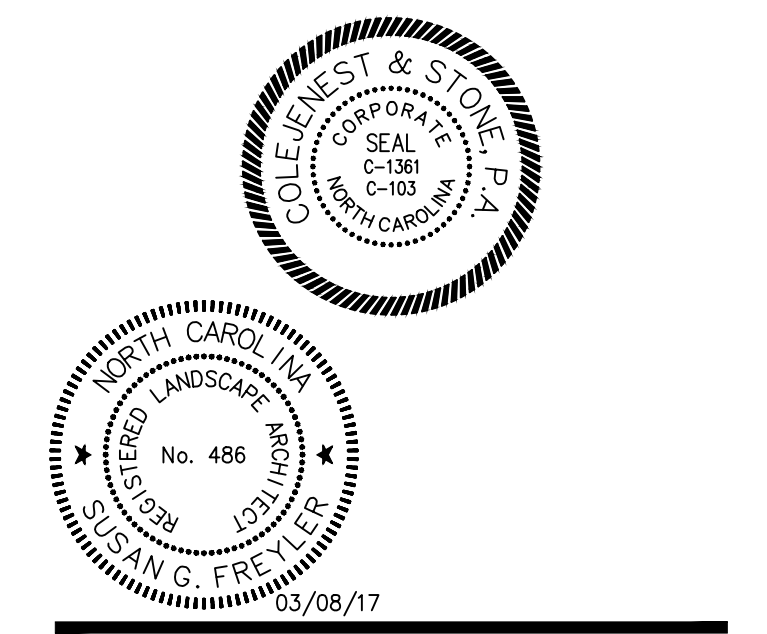
**CAMPUS CIRCULATION IMPROVEMENTS**

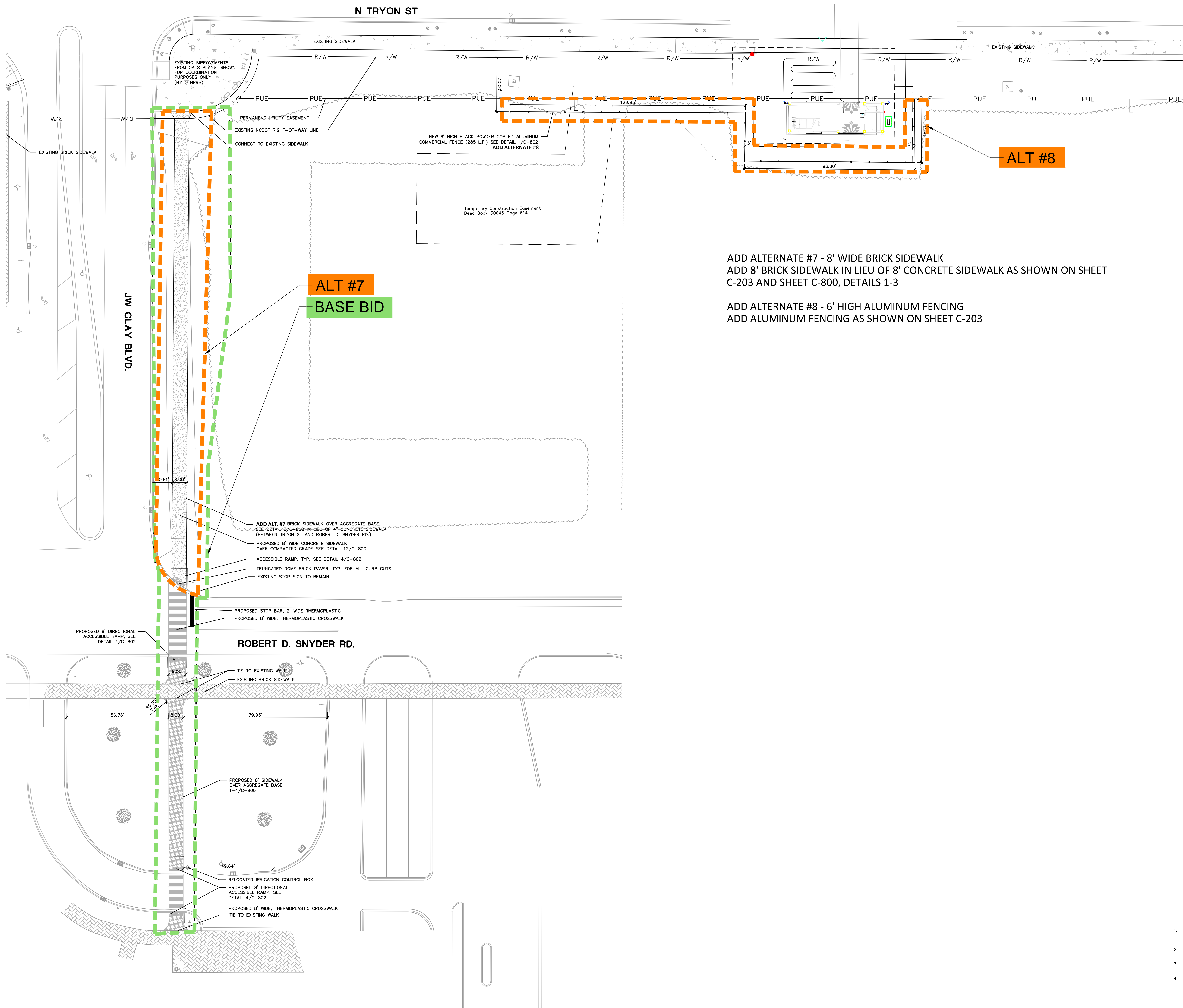
SCO ID# 16-14055  
CODE 41526 ITEM 310

**MAIN STATION - PLANTING PLAN (WALLIS HALL)**

Project No. 4496  
Issued 03/08/2017 - BID SET

Revised



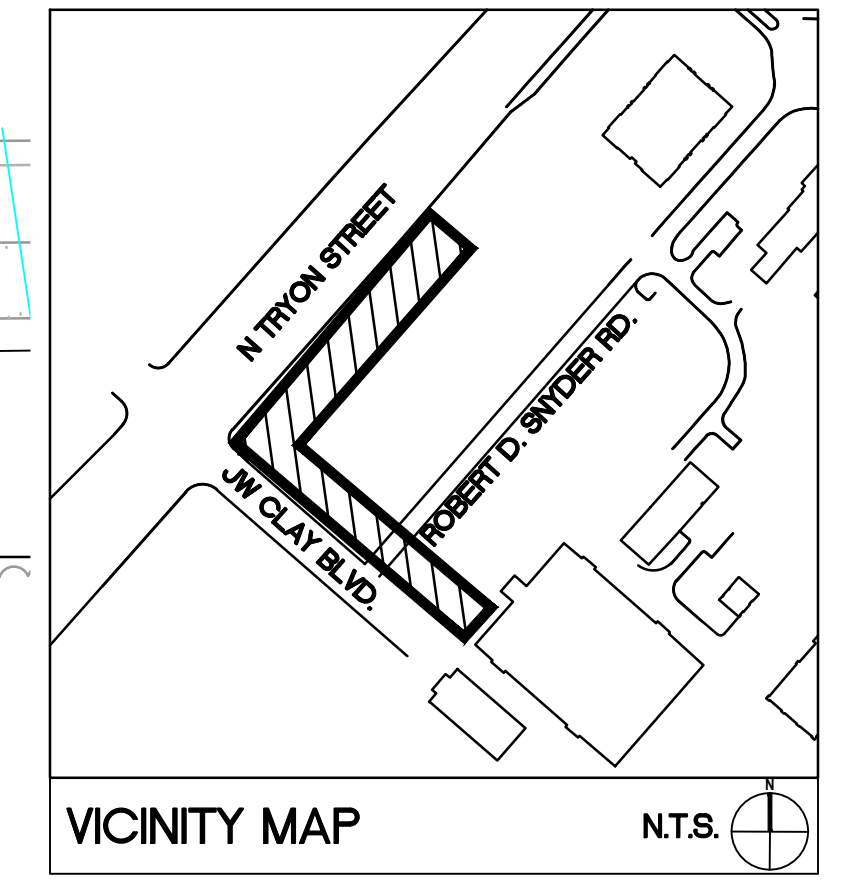


**ALT #7**  
BASE BID

**ALT #8**

ADD ALTERNATE #7 - 8' WIDE BRICK SIDEWALK  
ADD 8' BRICK SIDEWALK IN LIEU OF 8' CONCRETE SIDEWALK AS SHOWN ON SHEET C-203 AND SHEET C-800, DETAILS 1-3

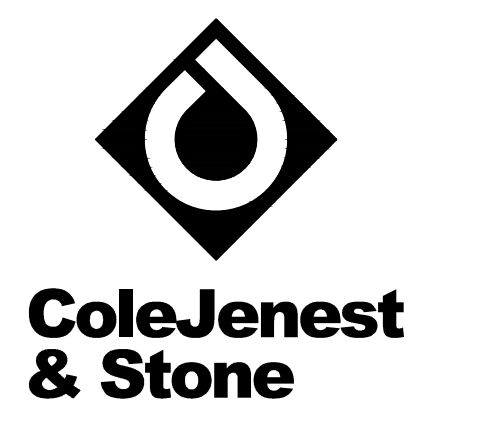
ADD ALTERNATE #8 - 6' HIGH ALUMINUM FENCING  
ADD ALUMINUM FENCING AS SHOWN ON SHEET C-203



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SYMBOL	DETAIL
[Pattern]	EXISTING BRICK SIDEWALK -/-
[Pattern]	PROPOSED BRICK SIDEWALK 1-4/C-800
[Pattern]	PROPOSED ACCESSIBLE RAMP 16/C-801
[Symbol]	PROPOSED LIGHTING -/-
[Symbol]	EXISTING LIGHTING -/-
[Pattern]	PROPOSED CONCRETE SIDEWALK 12/C-800
[Symbol]	PROJECT LIMIT -/-

SEE SHEET C-200 FOR STAKING NOTES



Shaping the Environment  
Realizing the Possibilities

Land Planning  
+ Landscape Architecture  
+ Civil Engineering  
+ Urban Design

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## CAMPUS CIRCULATION IMPROVEMENTS

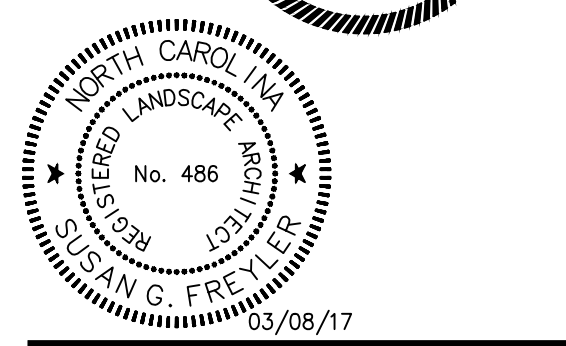
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CODE 41526 ITEM 310

## J.W. CLAY - STAKING AND MATERIALS PLAN

Project No.  
4496

Issued  
03/08/2017 - BID SET

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SCALE: 1"= 20'

## C-203

(BASE BID/ALT. #7,8)

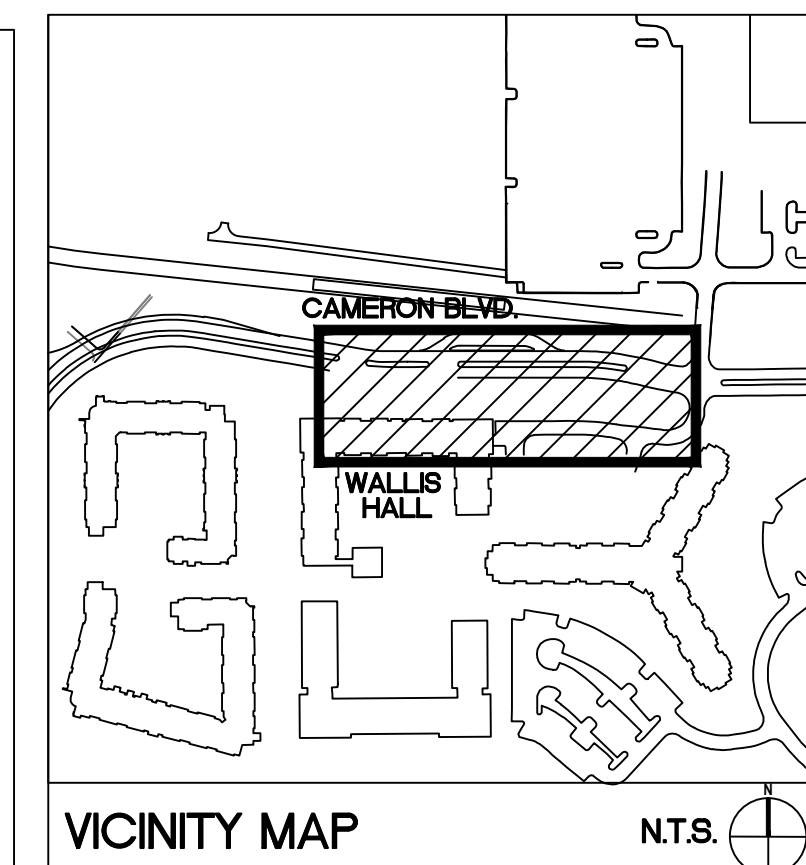
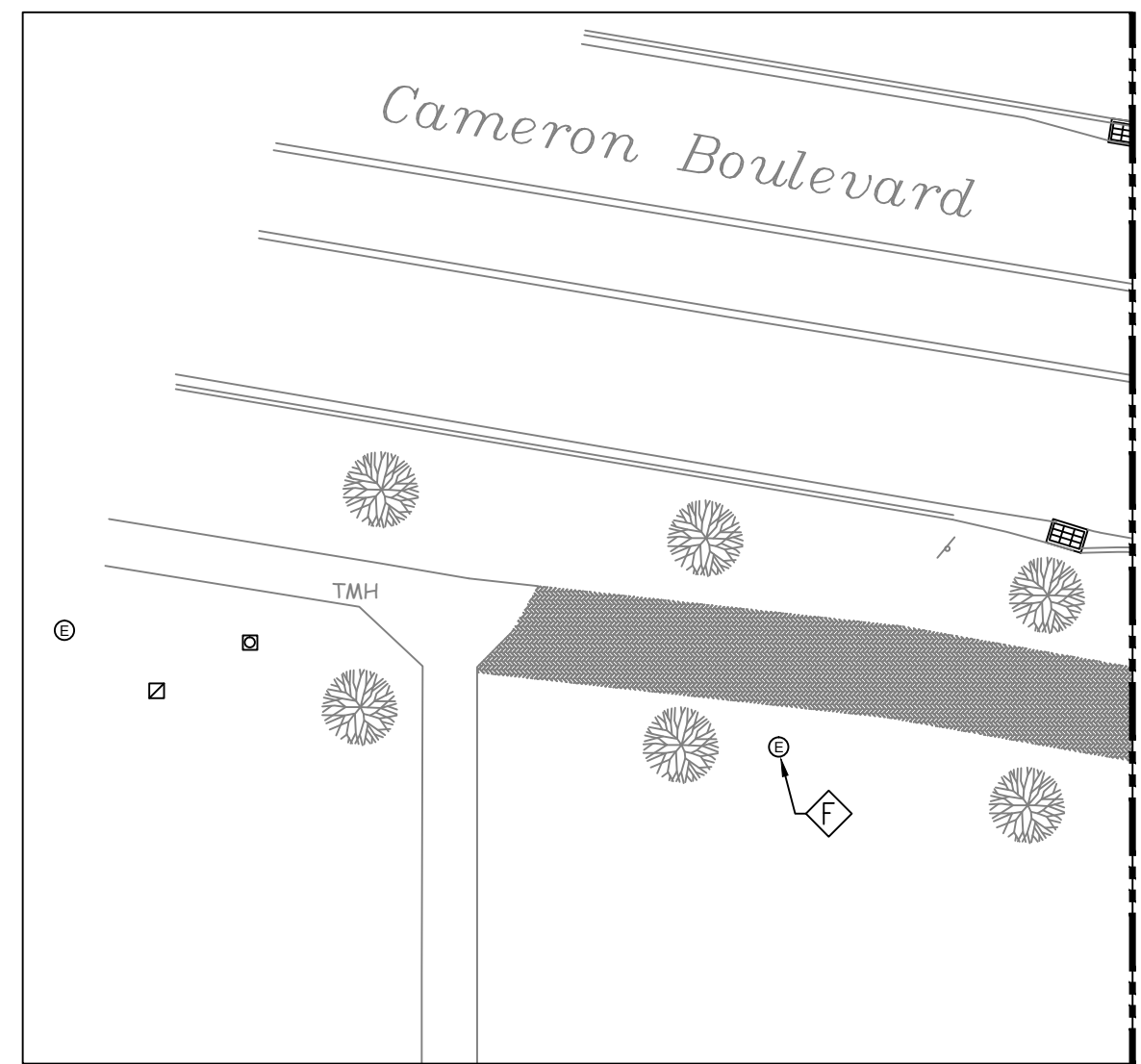
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- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGE WITH A MINIMUM OF 96 HOURS PRIOR TO CONSTRUCTION.







**VICINITY MAP** N.T.S.

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- GENERAL NOTES:**
- ALL ELECTRICAL LINES SERVING NEW PEDESTRIAN AND TRAFFIC CONTROLS SHALL BE LOCATED UNDERGROUND.
  - PROVIDE TRAFFIC RATED HAND HOLES AS NECESSARY FOR ROUTING CONDUITS UNDER GROUND AND RECONNECT EXISTING SITE LIGHTING.
  - SEE PLANTING PLAN FOR TREE LOCATIONS.
  - REFER TO CIVIL PLANS FOR EXISTING POLES TO REMAIN, BE RELOCATED, OR TO BE REMOVED. PROVIDE NEW WIRING (2#10, 1#10, 1" C) TO EXTEND EXISTING CIRCUITS TO NEW LIGHT POLE LOCATIONS.
  - PROVIDE STAINLESS STEEL LOCKABLE GASKETED ENCLOSURE TO PROTECT EQUIPMENT & CONTROLS FOR EACH TRAFFIC CONTROL CABINET.
  - COORDINATE AND CONFIRM FINAL LOCATION OF LIGHTS WITH UNCC CONSTRUCTION MANAGER IN THE EVENT A PROPOSED LIGHT POLE LOCATION IS IN CONFLICT WITH AN EXISTING OR PROPOSED UTILITY.
  - CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CALL NORTH CAROLINA ONE-CALL CENTER (1-800-632-4949) AND UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE AT LEAST 48 HOURS PRIOR TO UNDERGROUND WORK TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
  - CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTRACT WITH PRIVATE UTILITY LOCATOR TO HAVE ALL EXISTING UTILITIES LOCATED.
  - ALL EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR IS FULLY RESPONSIBLE TO FIELD VERIFY ACTUAL LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  - THE CONTRACTOR SHALL ENSURE THAT ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND STANDARDS ARE FOLLOWED DURING ALL PHASES OF THE CONSTRUCTION PROJECT. SHEETING OR BRACING SHALL BE USED WHENEVER NECESSARY TO PREVENT FAILURE OF THE TRENCH BANKS. ALL SHEETING SHALL CONFORM TO AASHTO AND OSHA SAFETY STANDARDS.
  - THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO PROVIDE SIGNS, BARRICADES, WARNING LIGHTS, GUARD RAILS, AND EMPLOY FLAGGERS AS NECESSARY WHEN CONSTRUCTION ENDANGERS EITHER VEHICULAR OR PEDESTRIAN TRAFFIC. THESE DEVICES SHALL REMAIN IN PLACE UNTIL THE TRAFFIC MAY PROCEED NORMALLY AGAIN.
  - CONSTRUCTION WORK ZONE SIGNS AND SIGNING PROCEDURES SHALL CONFORM TO THE MUTCD AND SUPPLEMENTS AND TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
  - SEE SHEET C-900 FOR LOCATION OF PEDESTRIAN SIGNAL POLES.
  - ADJUST ALL EXISTING ELECTRICAL HAND HOLES VERTICALLY AND HORIZONTALLY AS REQUIRED TO AVOID NEW CONDITIONS, FLUSH WITH SURROUNDING SURFACES AND COORDINATE WITH CIVIL DRAWINGS AND OWNER FINAL LOCATIONS.
- KEY NOTES:**
- NEW 12" X 12" HAND HOLE FOR SITE LIGHTING CIRCUITS PROVIDE NEW 2#10, 1#10G, 1" C TO RECONNECT EXISTING CIRCUIT.
  - LOCATION FOR RELOCATED EXISTING SITE LIGHTING POLE. SEE DETAIL FOR PAVEMENT MOUNTING. PROVIDE NEW POLE BASE. EXTEND CONDUIT AND RECONNECT TO EXISTING SITE LIGHTING CIRCUIT WITH 2#12, 1#12G, 1" C.
  - NEW SIGNAL LIGHT AND POLE, DECORATIVE TO MATCH PEDESTRIAN LIGHTING POLES. SEE SHEET C-900 & C-901, SEE DETAIL 12/E-102, COORDINATE FINAL STYLE, HEIGHT, FINISH, LOCATION, ETC. WITH C.M.
  - PROVIDE CONDUIT SLEEVES TO ENCLOSE EXISTING EXPOSED WIRING INTO ENCLOSURES.
  - PROVIDE NEW 24"x24"x18" D HAND HOLE FOR POWER DISTRIBUTION.
  - PROVIDE UL LISTED LED RETROFIT KIT FROM ORIGINAL EQUIPMENT MANUFACTURER.
  - EXISTING SITE STREET LIGHT TO REMAIN.
  - PROVIDE (4) 20A-120V NEMA 5-20R GFCI RECEPTACLES FOR TRAFFIC CONTROL SYSTEM.
  - PROVIDE NEW STAINLESS STEEL PANELBOARD ENCLOSURE, ON 60"x36" CONCRETE PAD. SEE DETAIL.
  - EXISTING BLUE LIGHT TO REMAIN UNDER BASE POLE. REMOVE EXISTING BLUE LIGHT PHONE, ASSOCIATED CONDUIT, WIRE AND HAND HOLES UNDER ALTERNATE #4.
  - LOCATION FOR NEW BLUE LIGHT PHONE AND ASSOCIATED EQUIPMENT. PROVIDE NEW 2#10, 1#10G IN 1" C TO NEW LOCATION. COORDINATE WITH UNCC I.T. STAFF FOR NEW TELECOM CABLE. PROVIDE 1/2" C TO WALLS BLOC I.T. ROOM. PROVIDE ONE 12" X 12" HAND HOLE FOR POWER AND ONE 12" X 12" HAND HOLE FOR TELECOM.
  - EXTEND EXISTING CIRCUIT TO NEW PEDESTRIAN LIGHT POLE LOCATION.
  - NEW PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW BASE, POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'AMP' FIXTURES AND POLES. SEE DETAIL 6/E-102 PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.
  - EXISTING PEDESTRIAN LIGHT POLE LOCATION, PROVIDE NEW POLE AND LIGHT TO MATCH EXISTING SURROUNDING PEDESTRIAN DECORATIVE 'AMP' FIXTURES AND POLES. MOUNT TO EXISTING BASE AND CONNECT TO EXISTING CIRCUIT. PROVIDE UL LISTED LED KIT TO MATCH RETROFIT FIXTURES. COORDINATE WITH OWNER.

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 Charlotte, NC 28223

**CAMPUS CIRCULATION IMPROVEMENTS**

SCO ID# 16-14055  
 CODE 41526 ITEM 310

**MAIN STATION - SITE PLAN**

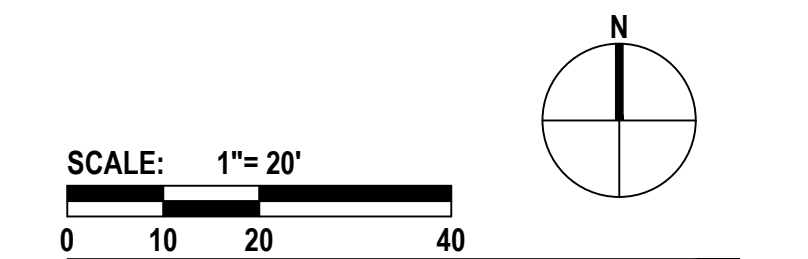
Project No.  
 4496

Issued  
 03/08/2017 - BID SET

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**elm.**  
 ENGINEERING  
 PROFESSIONAL ENGINEERING  
 LICENSE NO. 19586  
 EXPIRES 03/31/17

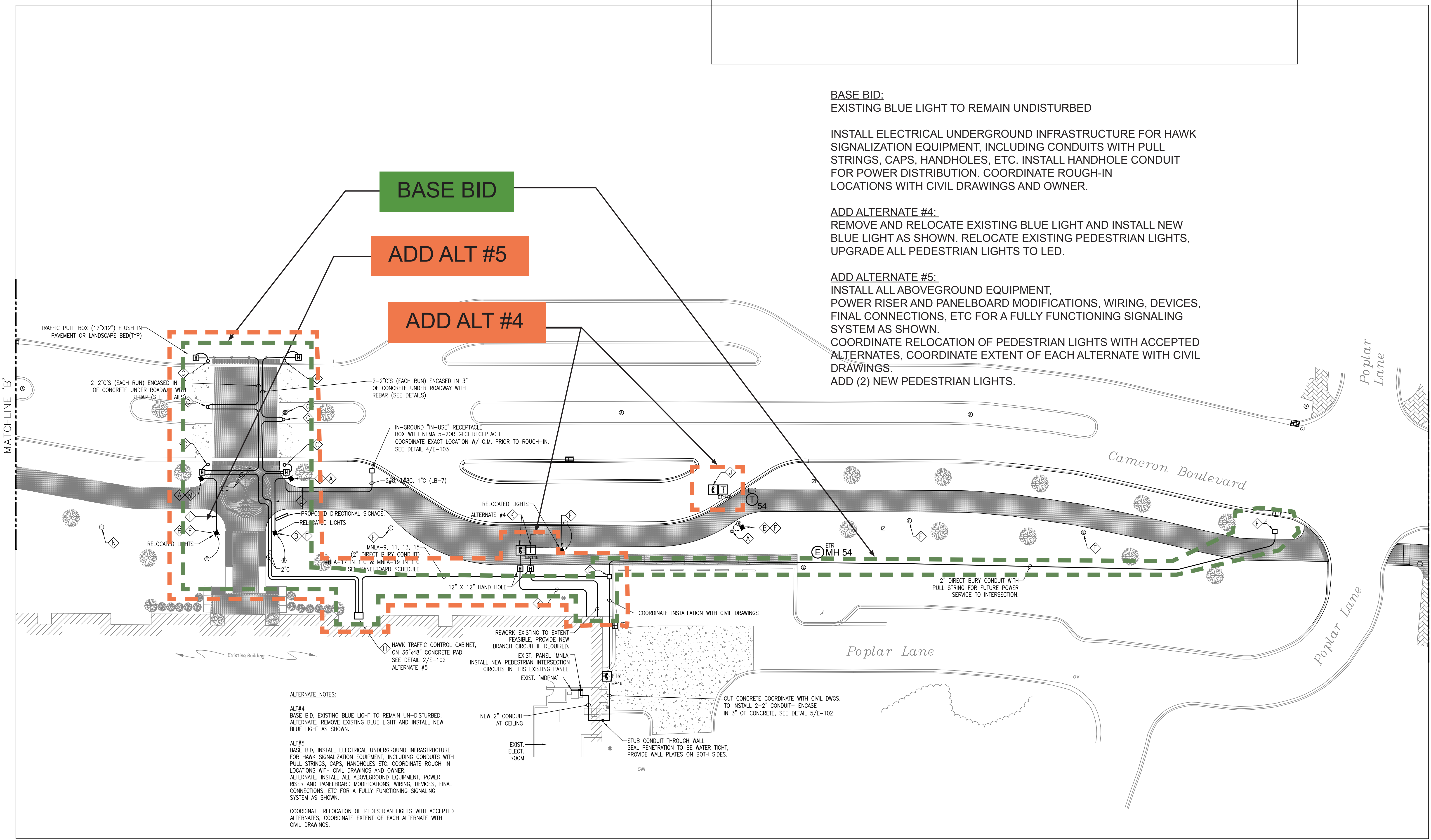
Elm Engineering Inc.  
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 Tel 704 335 0396  
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 www.elmengr.com  
 NC Corporation # C-2703



**E-200**

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- ALTERNATE NOTES:**
- ALT#4**  
 BASE BID, EXISTING BLUE LIGHT TO REMAIN UN-DISTURBED. ALTERNATE, REMOVE EXISTING BLUE LIGHT AND INSTALL NEW BLUE LIGHT AS SHOWN.
- ALT#5**  
 BASE BID, INSTALL ELECTRICAL UNDERGROUND INFRASTRUCTURE FOR HAWK SIGNALIZATION EQUIPMENT, INCLUDING CONDUITS WITH PULL STRINGS, CAPS, HANDHOLES ETC. COORDINATE ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS AND OWNER. ALTERNATE, INSTALL ALL ABOVEGROUND EQUIPMENT, POWER RISER AND PANELBOARD MODIFICATIONS, WIRING, DEVICES, FINAL CONNECTIONS, ETC FOR A FULLY FUNCTIONING SIGNALING SYSTEM AS SHOWN.
- COORDINATE RELOCATION OF PEDESTRIAN LIGHTS WITH ACCEPTED ALTERNATES, COORDINATE EXTENT OF EACH ALTERNATE WITH CIVIL DRAWINGS.

**BASE BID:**  
 EXISTING BLUE LIGHT TO REMAIN UNDISTURBED

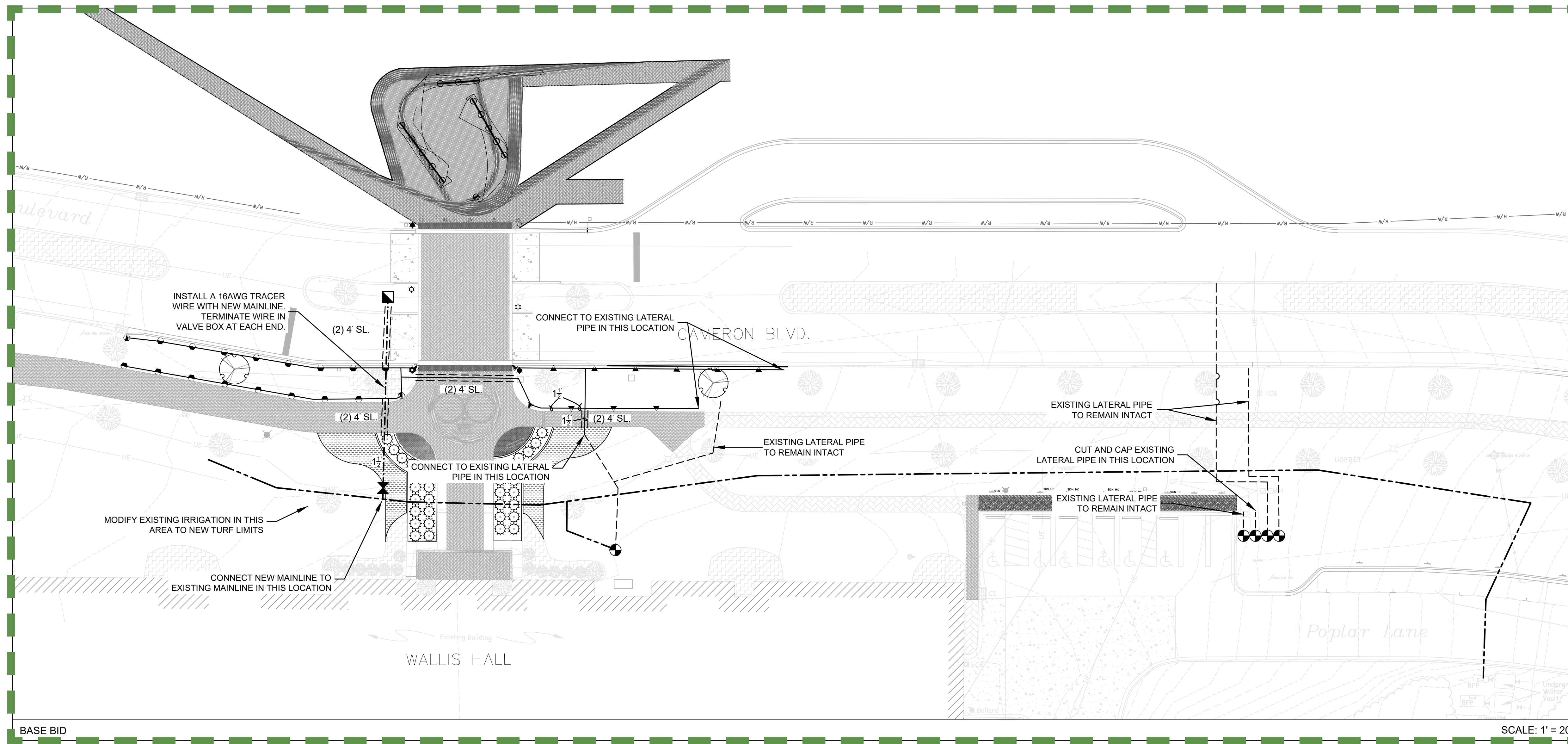
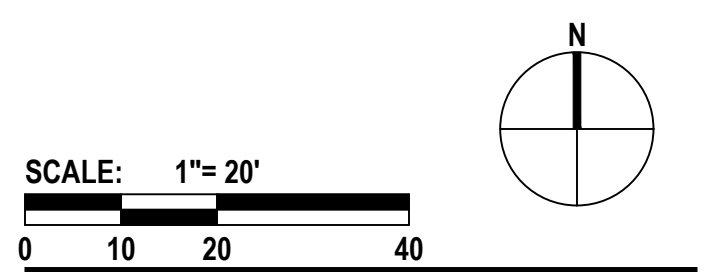
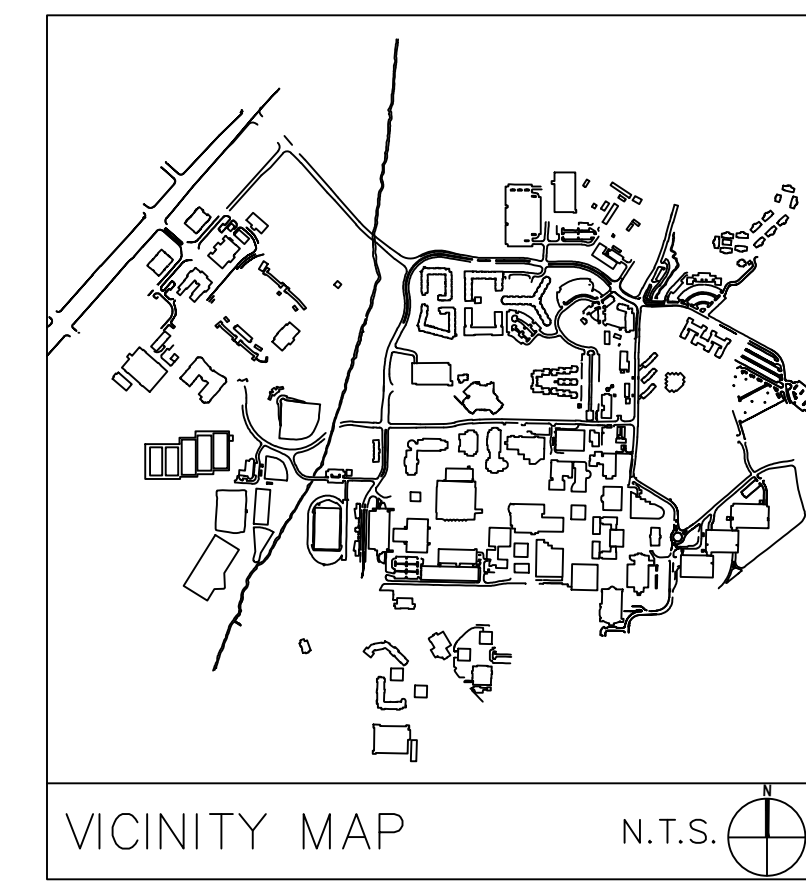
INSTALL ELECTRICAL UNDERGROUND INFRASTRUCTURE FOR HAWK SIGNALIZATION EQUIPMENT, INCLUDING CONDUITS WITH PULL STRINGS, CAPS, HANDHOLES, ETC. INSTALL HANDHOLE CONDUIT FOR POWER DISTRIBUTION. COORDINATE ROUGH-IN LOCATIONS WITH CIVIL DRAWINGS AND OWNER.

**ADD ALTERNATE #4:**  
 REMOVE AND RELOCATE EXISTING BLUE LIGHT AND INSTALL NEW BLUE LIGHT AS SHOWN. RELOCATE EXISTING PEDESTRIAN LIGHTS, UPGRADE ALL PEDESTRIAN LIGHTS TO LED.

**ADD ALTERNATE #5:**  
 INSTALL ALL ABOVEGROUND EQUIPMENT, POWER RISER AND PANELBOARD MODIFICATIONS, WIRING, DEVICES, FINAL CONNECTIONS, ETC FOR A FULLY FUNCTIONING SIGNALING SYSTEM AS SHOWN. COORDINATE RELOCATION OF PEDESTRIAN LIGHTS WITH ACCEPTED ALTERNATES, COORDINATE EXTENT OF EACH ALTERNATE WITH CIVIL DRAWINGS. ADD (2) NEW PEDESTRIAN LIGHTS.

MATCHLINE 'B'

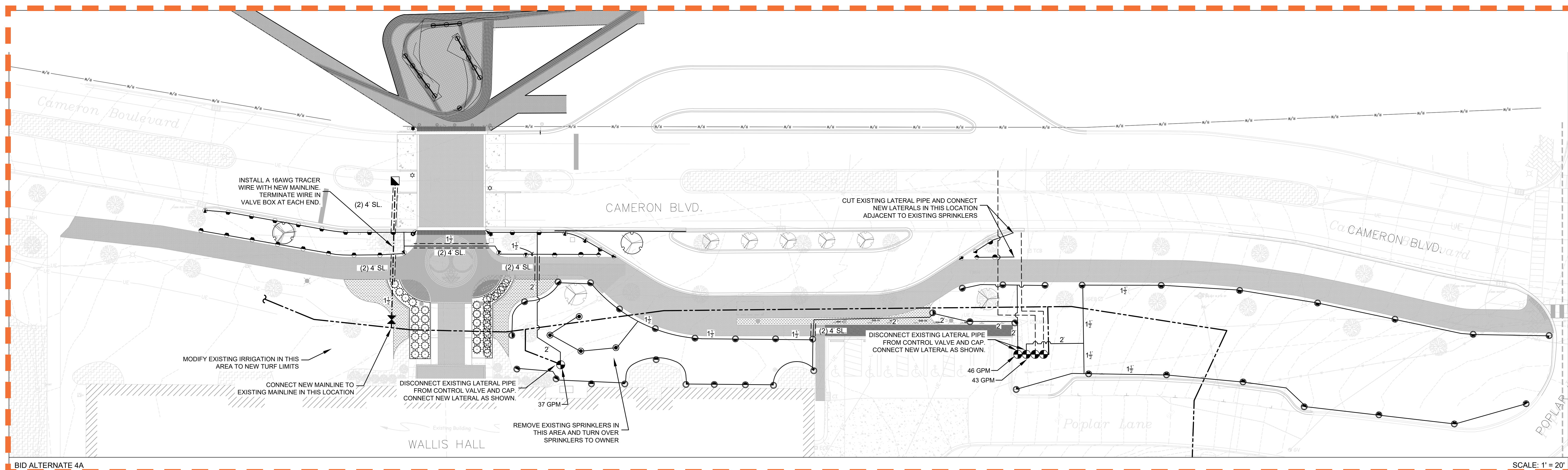
MATCHLINE SEE E-201



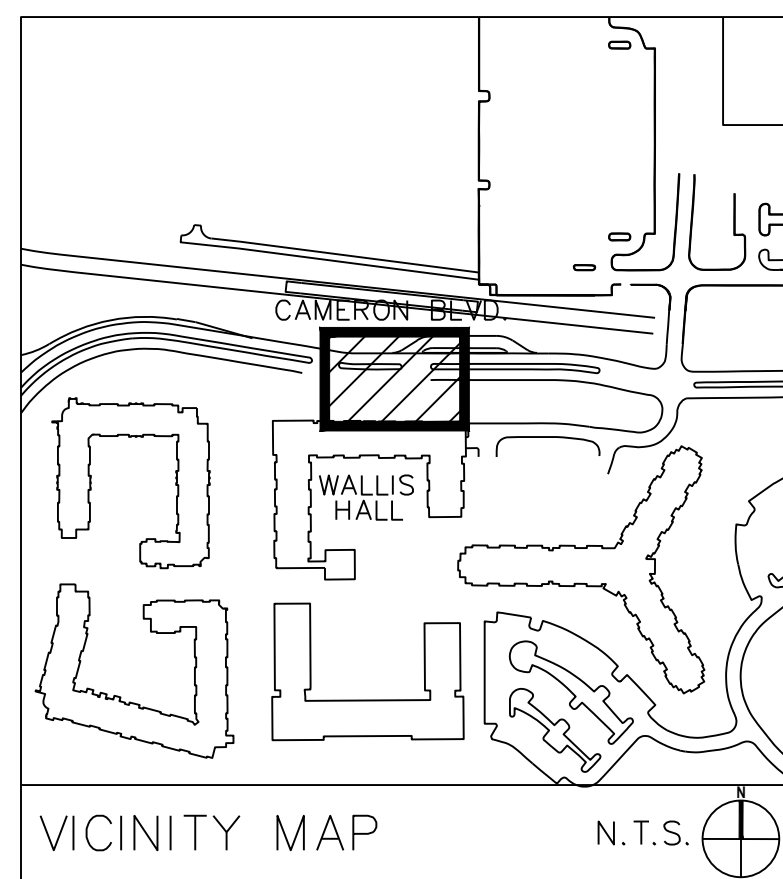
**BASE BID**

IRRIGATION LEGEND

SYMBOL	MAX. SPACING	DESCRIPTION
	15'	TORO 570Z-6P PRX-COM SPRAY SPRINKLER WITH PRECISION SERIES SPRAY NOZZLES
	12'	TORO 570Z-6P PRX-COM SPRAY SPRINKLER
	20'	TORO PRN-TA ROTARY NOZZLE
	20'	TORO PRN-TF ROTARY NOZZLE
	35'	TORO T5P-CK ROTARY SPRINKLER
		EXISTING 24 VOLT ELECTRIC ZONE VALVE
		ISOLATION GATE VALVE (LINE SIZE)
		1" QUICK COUPLING VALVE
		CLASS-200 PVC LATERAL PIPING (SIZE AS INDICATED. ALL UNLABELLED PIPE TO BE 1 INCH)
		EXISTING PVC LATERAL PIPING TO REMAIN
		CLASS-200 PVC MAINLINE PIPING
		EXISTING PVC MAINLINE PIPING TO REMAIN
		SCHEDULE 40 PVC PIPE SLEEVE (SIZE AS INDICATED)
		INSTALL SCH-40 PVC ELECTRICAL CONDUIT ADJACENT TO ALL MAINLINE PIPE SLEEVES. MINIMUM WIRE CONDUIT SIZE TO BE 2-INCH, UNLESS OTHERWISE NOTED. SEE SLEEVING DETAIL.
VALVE DESIGNATION:		SLEEVE/CONDUIT DESIGNATION:
		— SIZE
		— SL — SLEEVE/CONDUIT INDICATOR
		SL=SLEEVE WC=WIRE CONDUIT



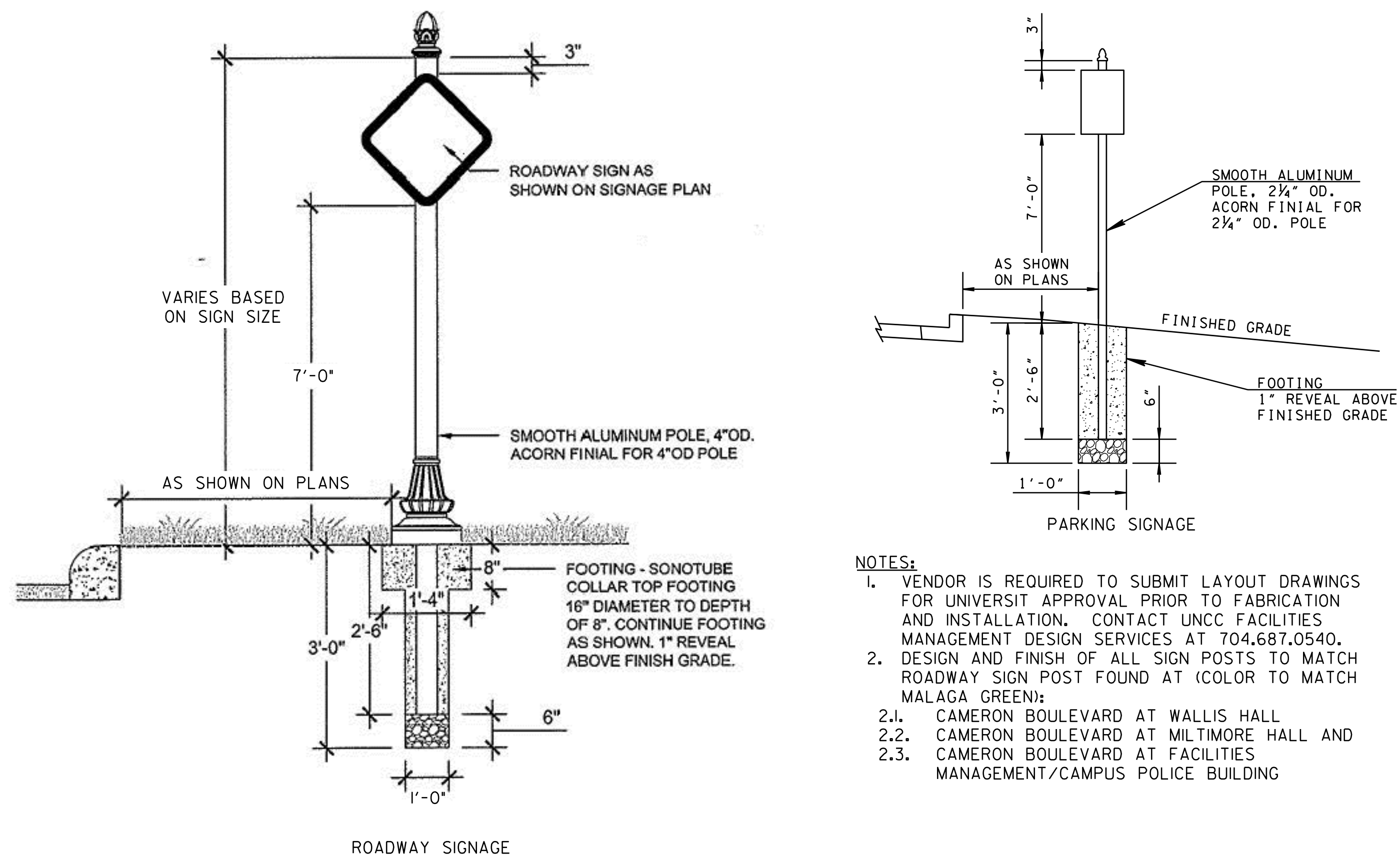
**ADD ALT #4**



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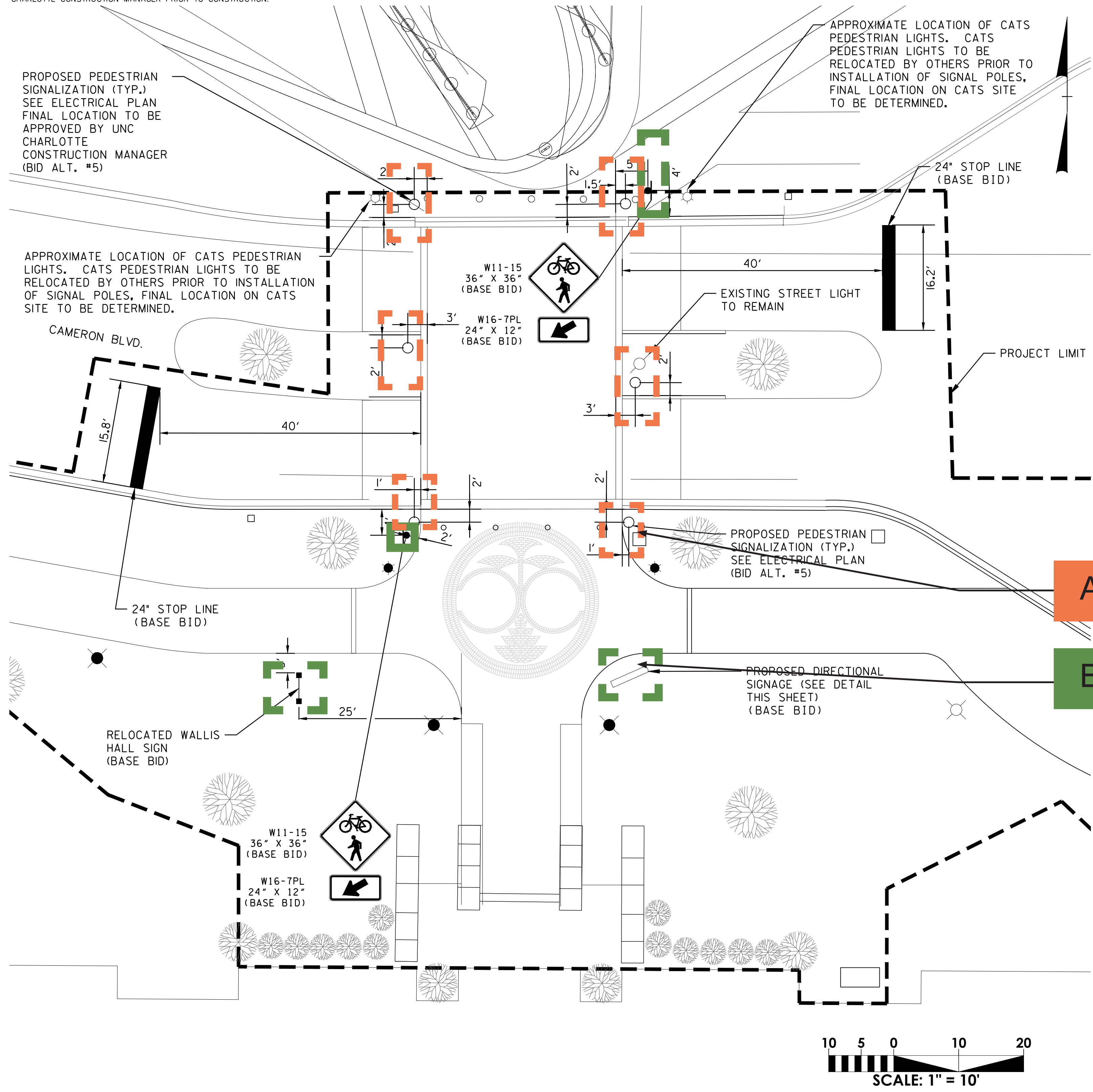


- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, ETC. AS NECESSARY TO INSURE SAFETY TO THE PUBLIC.
- ALL PAVEMENT CUTS, CONCRETE OR ASPHALT, ARE TO BE REPLACED ACCORDING TO STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND CHARLOTTE-MECKLENBURG UTILITIES SPECIFICATIONS.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS PART 1926 SUBPART P, OR AS AMENDED.
- CONTRACTOR SHALL COORDINATE ALL LOCATES WITH THE UNC CHARLOTTE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.



- NOTES:**
- VENDOR IS REQUIRED TO SUBMIT LAYOUT DRAWINGS FOR UNIVERSITY APPROVAL PRIOR TO FABRICATION AND INSTALLATION. CONTACT UNCC FACILITIES MANAGEMENT DESIGN SERVICES AT 704.687.0540.
  - DESIGN AND FINISH OF ALL SIGN POSTS TO MATCH ROADWAY SIGN POST FOUND AT (COLOR TO MATCH MALAGA GREEN):  
 2.1. CAMERON BOULEVARD AT WALLIS HALL  
 2.2. CAMERON BOULEVARD AT MILMORE HALL AND  
 2.3. CAMERON BOULEVARD AT FACILITIES MANAGEMENT/CAMPUS POLICE BUILDING

**SIGNAGE DETAILS**



**PLAN VIEW**

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

LEGEND	SIZE	SIGN FACE			STEEL DESIGN		MINIMUM VERTICAL CLEARANCE	QUANTITY	
		LENGTH	HEIGHT	COPY	BACKGROUND	MATERIAL			SUPPORT TYPE
	W11-15	30"	30"	BLACK	FLUOR. YELLOW GREEN (REF.)	0.080" SHEET ALUMINUM	SEE ROADWAY SIGNAGE DETAIL	8'-3"	2
	W16-7PL	24"	12"	BLACK	FLUOR. YELLOW GREEN (REF.)	0.080" SHEET ALUMINUM	MOUNTED WITH W11-15	7'-0"	2
	R7-5 (MOD.) * *OWNER TO APPROVE TEXT PRIOR TO FABRICATION	12"	18"	WHITE	GREEN (REF.)	0.080" SHEET ALUMINUM	SEE PARKING SIGNAGE DETAIL	7'-0"	4
	R7-7	12"	18"	RED	WHITE (REF.)	0.080" SHEET ALUMINUM	SEE PARKING SIGNAGE DETAIL	7'-0"	1

**SIGN SCHEDULE DETAIL**

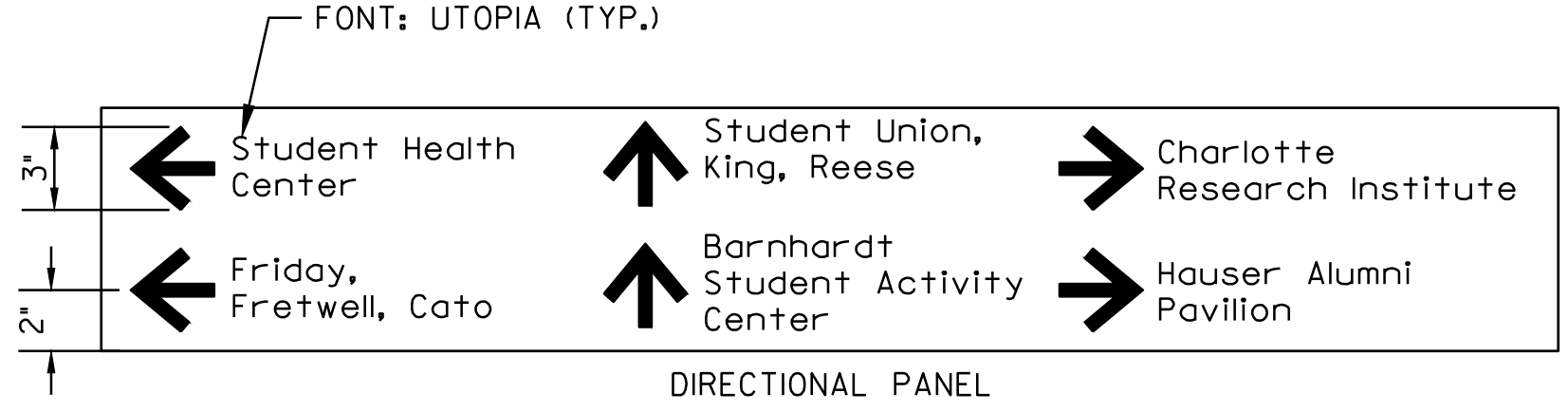
- GENERAL NOTES:**
- SIGNAGE SHOULD COMPLY WITH UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE DESIGN AND CONSTRUCTION MANUAL SECTION 3, ANNEX D CAMPUS EXTERIOR SIGNAGE STANDARDS
  - POST STOCK - ALUMINUM 3"x4" SQUARE TUBE WELDED AT 45 DEGREE CUT JOINT INTERSECTION WITH INTERNAL REINFORCED SUPPORTS.
  - HEADER BOARD - ASSEMBLY PAINTED IN CAMPUS GREEN, AND AFFIXED WITH BOTH MECHANICAL FASTENERS AND ADHESIVE SYSTEMS.
  - CROWN ASSEMBLY - AFFIXED TO BAND AS FEATURE, WITH GOLD AREA BEING 04 GOLD VINYL OR PAINT EQUAL, AND DARK GREEN AREA PAINTED TO MATCH SIGN BODY AND POSTS
  - SIGN BODY - ALUMINUM WITH CHANNEL EDGE (SEE DETAIL SHEET), AFFIXED WITH MECHANICAL FASTENERS, AND FILLER FINISH FOR BLENDING WITH PAINTED SURFACES. STAINLESS STEEL HINGE. LED INTERIOR CABINET LIGHTING.
  - FOOTER SUPPORT - 3"x12" 'C' CHANNEL STEEL METAL FOOTING BAR. 3/8" DIAMETER STAINLESS STEEL HARDWARE ASSEMBLY AND #4 REBAR CROSS PINS.
  - FASTENERS - 3/8" SS BOLT ASSEMBLY AND 1" ACCESS HOLES OPPOSITE OF (E) FASTENERS MUST BE PLUGGED WITH PAINTED "SNAP IN" CAP.
  - FOOTING IS 12" DIAMETER POST HOLE 42" IN DEPTH POURED 1" FINISHED GRADE

- FINISH NOTES:**
- POSTS AND SIGN BODY: 'BLACK GREEN' MATTHEWS PAINT CO. MP21337 R91290 - SATIN FINISH AND SATIN CLEAR COAT TO SEAL. ALTERNATE - RAL 6012 BLACK GREEN
  - HEADER ASSEMBLY: CAMPUS GREEN PMS 349 MATTHEWS PAINT CO. MP00457 R91290 SATIN FINISH AND SATIN CLEAR COAT TO SEAL.
  - CANOPY ASSEMBLY: 'NATURAL WHITE LRV' MATTHEWS PAINT CO. MP42202SP R2822045P SATIN FINISH AND SATIN CLEAR COAT TO SEAL. ALTERNATE RAL 9003 SIGNAL WHITE
  - TEXT GRAPHICS/LETTERING: 3M DIAMOND GRADE PRISMATIC OR EQUAL WHITE HIGH PERFORMANCE VINYL.
  - LOGO: GOLD CROWN ARLON 04 OR EQUAL. INSET OR SECOND COLOR TO MATCH SIGN BODY PAINT CODE.

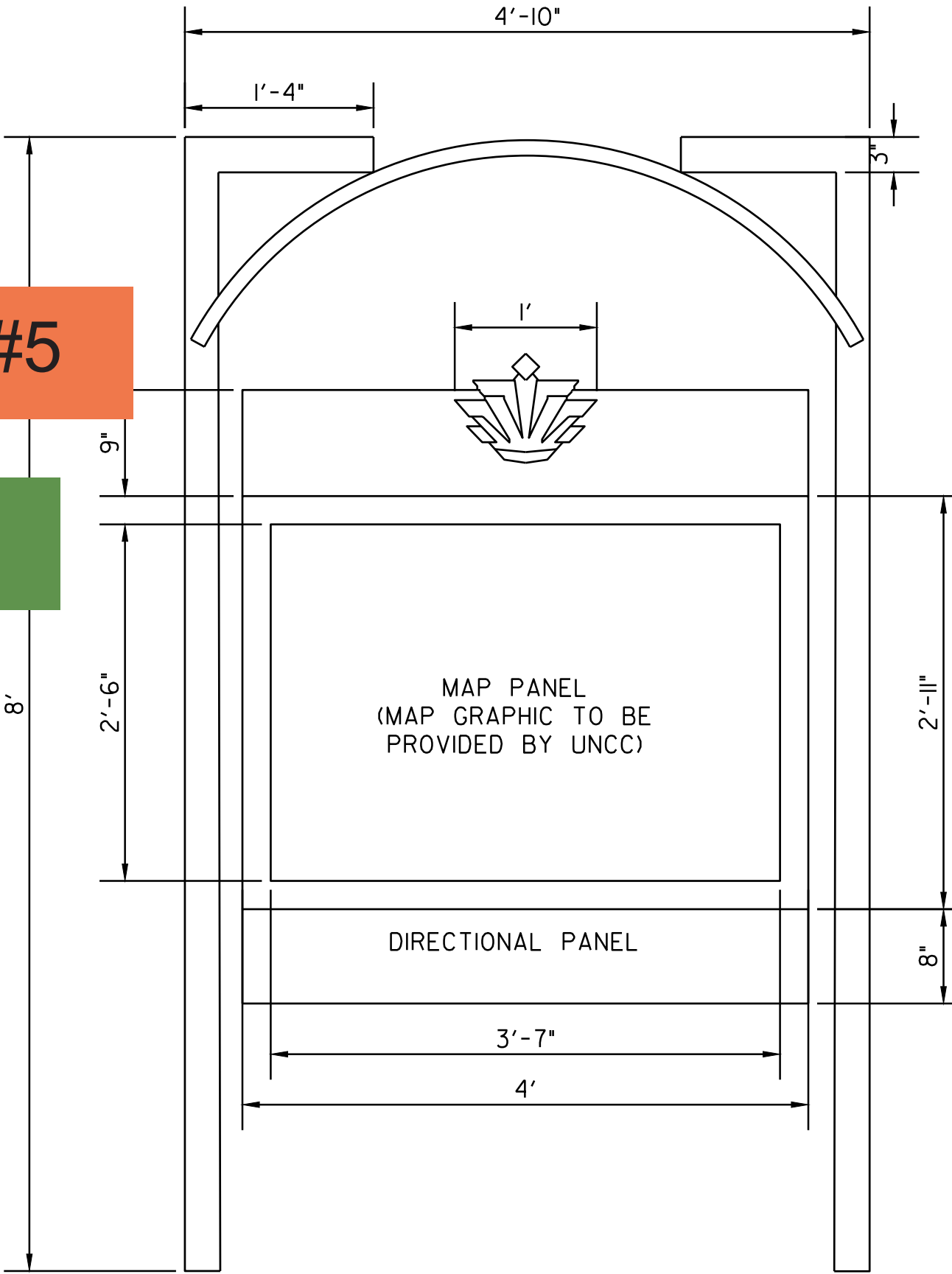
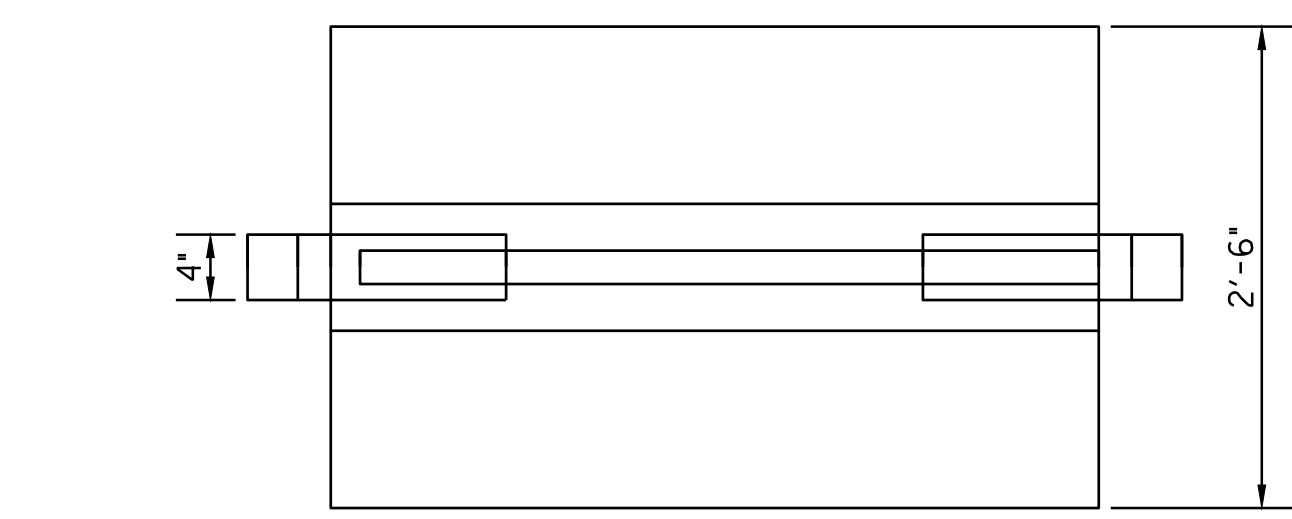
ALL SURFACES TO BE SMOOTH AND FREE OF OBVIOUS DEFECTS; VOIDS FILLED WHERE NECESSARY. ALUMINUM TO BE PRIME COATED TO ACCEPT FINISHES.

FOR ALL LAYOUTS ON EXTERIOR SIGNAGE, THE VENDOR MUST PROVIDE SUBMITTAL DRAWINGS WITH LAYOUT AND CHARACTER SIZING, INCLUDING COMPRESSION AND SPACING SIZES USED TO CREATE READABLE SIGNAGE FOR MOVING VEHICULAR TRAFFIC.

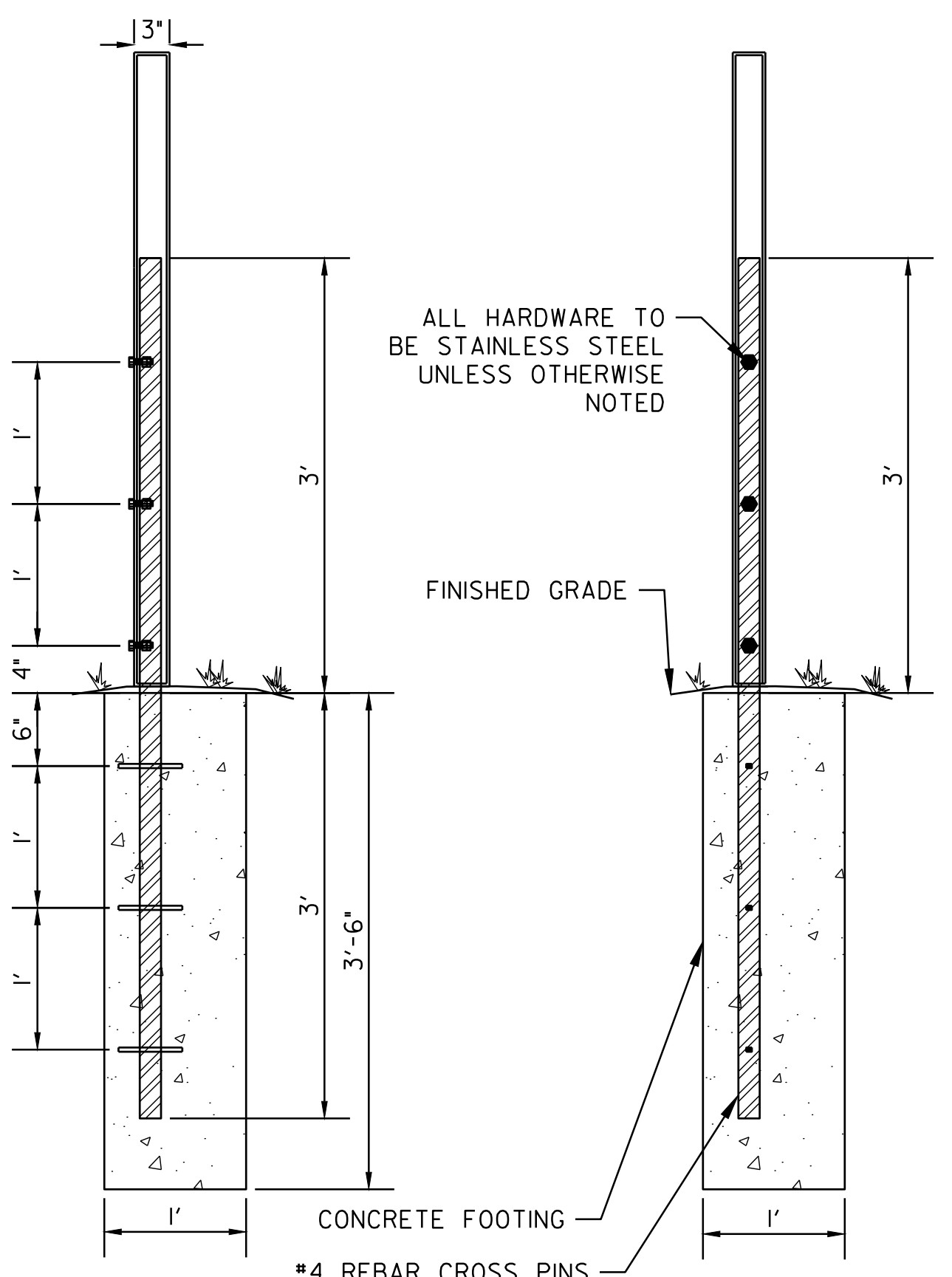
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UNCC TO REVIEW AND APPROVE BUILDING NAMES TO BE USED ON DIRECTIONAL PANEL



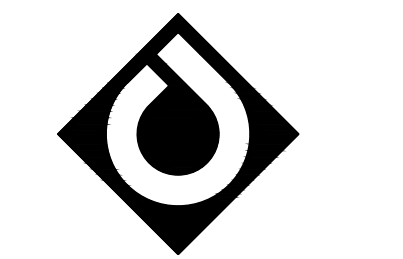
**FRONT VIEW**



**FOOTING DETAIL**

**FOOTING SIDE VIEW**

**DIRECTIONAL SIGNAGE DETAIL**



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**UNC-CHARLOTTE**

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**CAMPUS CIRCULATION IMPROVEMENTS**

**SIGNAGE AND PAVEMENT MARKING PLAN**

Project No. 4496

Issued 03/08/2017 - BID SET

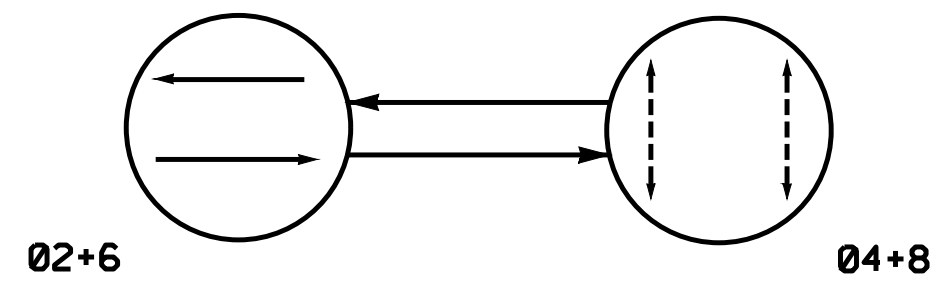
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**C-900**

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**PHASING DIAGRAM**

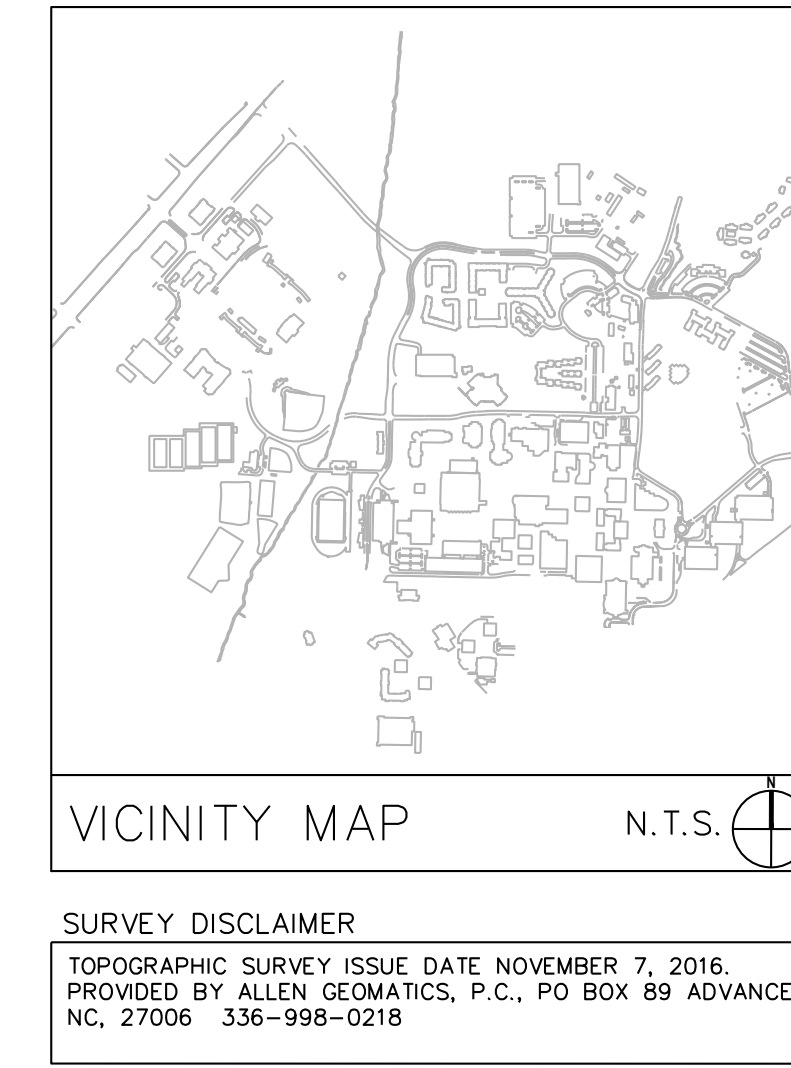
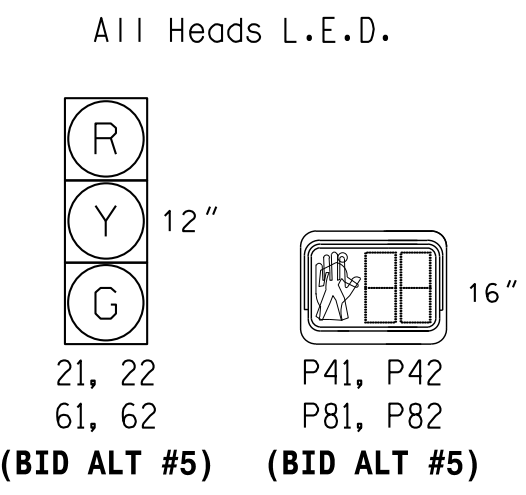


**PHASING DIAGRAM DETECTION LEGEND**



SIGNAL FACE	PHASE		
	Ø+4	Ø+4	Ø+4
21, 22	G	R	Y
61, 62	G	R	Y
P41, P42	DW	W	DRK
P81, P82	DW	W	DRK

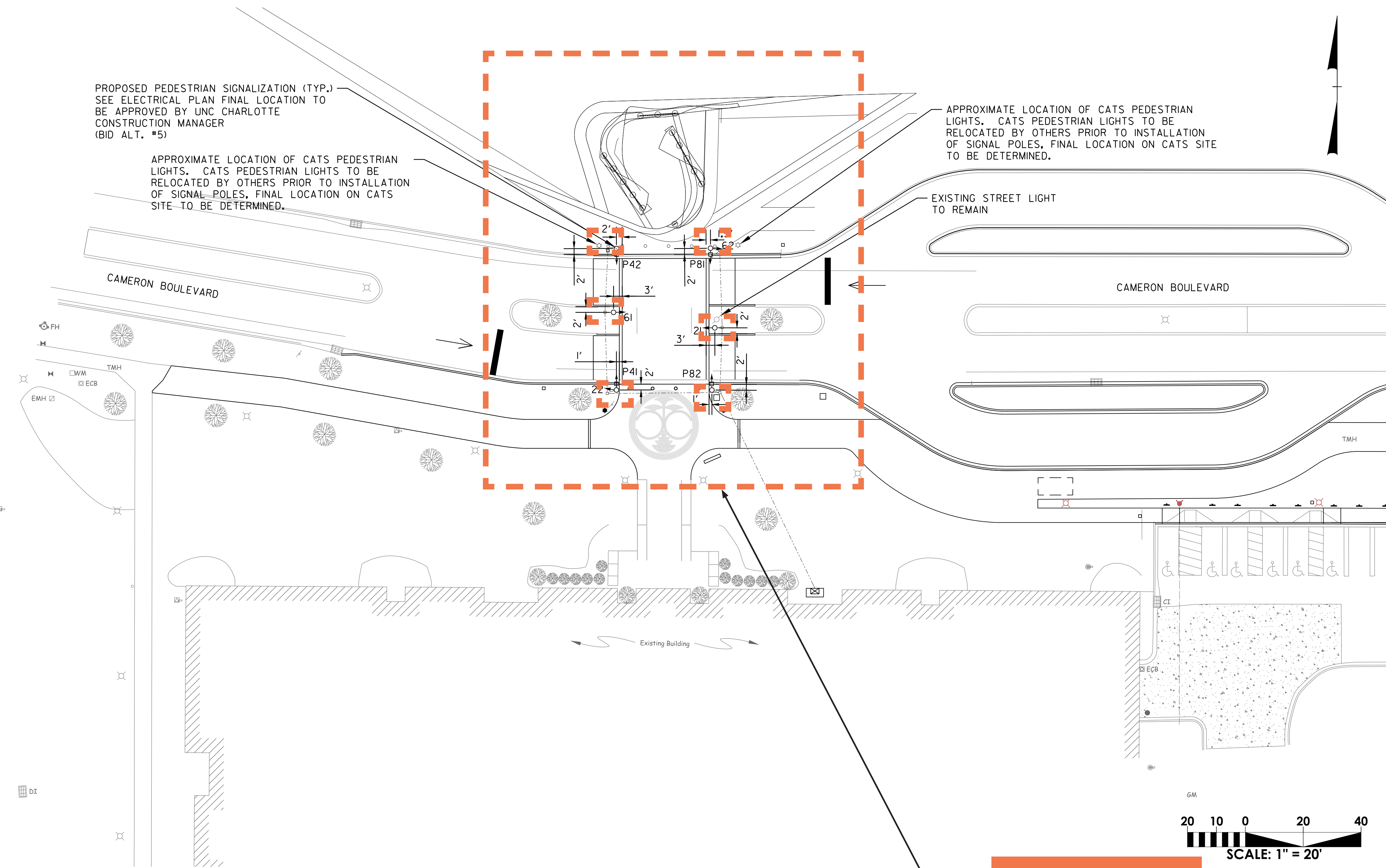
**(BID ALT #5)  
SIGNAL FACE I.D.**



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- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
  - Vendors - Signal Head, Vehicular: MobaTrex Inc., Econolite Control Products, General Traffic Equipment Corp., McCain Traffic Supply or Approved Equal
  - Vendors - Signal Head, Pedestrian: MobaTrex Inc., Econolite Control Products, General Traffic Equipment Corp., McCain Traffic Supply or Approved Equal
  - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
  - Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
  - Program pedestrian heads to countdown the flashing "Don't Walk" time only.
  - Pedestrian pedestals are conceptual and shown for reference only. See NCDOT special detail sheets 1705D01 for pushbutton location details.
  - All signal equipment shall be dark green "black green" in color per UNCC Design Standards.

**APPLICABLE NCDOT STANDARD DETAILS**

STD.NO.	TITLE
1700.01	Electrical Service Options
1700.02	Electrical Service Grounding
1705.02	Signal Heads
1705.03	Signal Heads
1715.01	Underground Conduit-Trenching
1716.01	Junction Boxes
1743.02	Pedestals
1743.04	Pedestals
1751.01	Controllers and Cabinets
1751.02	Controllers and Cabinets

**ADD ALT #5**  
 ALSO SEE SHEET E-200

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	-	-	-	-
Extension 1 *	-	-	-	-
Max Green 1 *	-	-	-	-
Yellow Clearance	-	-	-	-
Red Clearance	-	-	-	-
Red Revert	-	-	-	-
Walk 1 *	-	7	-	7
Don't Walk 1	-	13	-	13
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Recall Mode	-	-	-	-
Vehicle Call Memory	-	-	-	-
Dual Entry	-	-	-	-
Simultaneous Gap	-	-	-	-

\* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 4 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

**LEGEND**

PROPOSED	EXISTING
	N/A
	N/A
	N/A
	N/A
	N/A

**UNC-CHARLOTTE**

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**CAMPUS CIRCULATION IMPROVEMENTS**

**SIGNAL PLAN**

Project No.  
 4496

Issued  
 03/08/2017 - BID SET

Revised



**C-901  
 ADD ALTERNATE #5**