

PROJECT: Church Street Pedestrian Plaza

OWNER: City of Anderson
401 South Main Street
Anderson, SC 29625

ENGINEER: The LandPlan Group South, Inc.
1206 Scott Street
Columbia, SC 29201

PROJECT #: 1244

ADDENDUM NO. 1 – August 5, 2026

TO: All holders of bid documents

Acknowledge receipt of this Addendum by inserting its number and date in Document 01140 *BID*, page 2 in the space provided for acknowledging ADDENDA. Failure to do so may subject BIDDER to disqualification. This addendum forms a part of the Contract Documents.

CLARIFICATIONS:

- The mandatory Pre-bid meeting agenda with minutes and sign-in sheet has been attached to this addendum.
- DO NOT modify bid tab quantities or add verbiage to your bid tab, (i.e. ALLOWANCE). These bids will be considered non-responsive.
- Contractors MUST fill out all unit prices on the bid tab as well as the total price column for your bid to be accepted.
- Bidders without the correct licensing for site work projects and are not self-performing more than 50% of the work will NOT have their bids accepted. Bidders must also hold the correct dollar limit per job to have bid accepted.
- The Bid Form has been revised to include a new Bid Item, 11. Site Furniture.
- The Bronze Plaques are intended to have text only. No Pictures.
- All responses and revisions to Drawings and Specifications are shown in red ink.

GENERAL QUESTIONS:

1. Please confirm if the concrete can be a radius sawcut.
No radial sawcuts are required.
2. Can you please provide a breakdown of what is required on line 10.F underground utilities?
As described in spec section 01250, page 8, Measurement & Payment.

3. Can you provide a cut sheet/make & model of the decorative post we are to replicate at Caters Lake Park.
This is not available. The Bid Form has been revised to include an allowance for Item 10g. Lighting and Electrical.
4. Can you please provide electrical drawings?
Electrical is to be Design Build by Contractor.
5. Drawing C200 and notes 3-5 indicate brick pavers to be by Endicott Clay Products. However, Specification section 02614 calls out Pine Hall Pathway Red. Please clarify which is correct. Other portions of this spec section indicated wall and column brick, but no wall or column work was found on drawings. please clarify.
Pavers are to be as specified on Sheet C200.
6. Site note 9 on C200 states provide decorative posts to match the ones at Caters Lake Park. Please provide a manufacture and model and height. Or provide an allowance for all bidders.
An allowance will be provided as part of Addendum No. 1.
7. Regarding Measurement and Payment section 01250 item # 10f, please respond to the following request for more information. Per the pre-bid meeting site visit no overhead utilities were visible at the rear of the buildings on the east side of Church Street. Also, no overhead utilities were seen on west side of the intersection of Church Street and S. main Street. Please be more specific and identify overhead utilities to be relocated underground or provide contact information for a person who can identify the utilities needing to be relocated underground.
The currently remaining overhead lines are to be placed underground. Contractor to coordinate with appropriate agency accordingly.
8. Please provide an exact location for North Main Commons in Anderson to match the bollards at that location.
Bollards are to be Architectural Iron Company, Hampton 'A', flange/surface mount 42" above grade, primed and painted black.
9. Could you please provide any of the following for the decorative posts used at Cater's Lake Park?
 - Shop drawings or product cut sheets
 - Manufacturer name and model number
 - Any specifications or approved submittals related to the posts*Not available. See response to #6.*
10. The decorative bollards from Architectural Iron Company Hampton "A" comes in 4 models. Can you specify which one you are requesting?
 - Direct-Burial
 - Flange-Surface-Mount
 - Removable
 - Removable-Lockable

Flange – Surface Mount

11. I would like to request an addendum removing the (3) concrete crosswalks at Church Street and Main. They are currently under an existing contract that we have with the city to be replaced. We will already have these replaced by the time this project gets started. I would propose that the demo for your project start at LINE-ITEM #22 Flush Granite Curb.

The Bid Form has been revised and is included in this Addendum No. 1. The west end limits of demolition shall begin at Line Item #22 Flush Granite Curb.

12. Bid item # 3. Remove and replace existing brick pavers is a unit priced item. However, the payment and measurement description states the item will be paid as a lump sum. Please clarify.

This will be a Unit Price Bid Item.

13. For bid item # 3 above if it remains a unit price item on the bid form, please clarify if the quantity to be paid is for the area of removed pavers or the area or replaced pavers.

This pay item is for removal and replacement of the existing pavers. If additional pavers are required to fill the area shown, that quantity will be paid through Item 6, Brick Masonry.

14. 3.10.2.2. Unless otherwise noted, all exposed concrete surfaces, including exterior and interior of buildings and exposed basin and tank walls, shall be given a trowel and float finish using a cement-base waterproof coating material such as Thoroseal Plaster Mix or equal.

The above spec in spec section 03300 appears to not be relevant for this project. Please confirm.

See revised Specification Section 03300 included in this Addendum No. 1.

15. Pay item #5e Concrete Crosswalk state this scope of work includes: “scoring brush and window detail”, please provide a detail that adequately describes these requirements.

Crosswalks are no longer in contract.

16. Measurement and payment item #7g appears to include an unrelated scope of work regarding streetlights, electrical design, and wiring plans. This scope of work appears to not pertain to pay item 7g. Please clarify.

Revised and included in this Addendum No. 1.

17. Bid form item 10g “Lighting Electrical” is a lump sum bid item. However, Measurement and Payment Item 10g “Lighting & Electrical states this scope of work is to paid according to the LF of conduit installed. There is no conduit shown to be installed since there is no design yet. Please clarify.

The Bid Form will be revised to include an allowance for Bid Item 10g. Lighting Electrical and is included in this Addendum No. 1.

18. Please clarify the exact location for the new Pedestrian Crossing Signal Poles? If you are wanting to locate them in the exact locations of the existing Mast Arm

Poles, keep in mind those foundations are typically 8 to 10' ft deep.it would be cheaper to shift the new poles a few feet.

Exact location may be adjusted, determined in the field in coordination with Landscape Architect and Owner.

19. How many sanitary sewer taps, and service lines will be required? 1 or 2

Two.

SPECIFICATIONS:

Remove and Replace Section – *01140 BID*

Remove and Replace Section – *01250 Measurement and Payment*

Remove and Replace Section – *03300 Cast in Place Concrete*

DRAWINGS:

Sheet C200 – Site Plan



THE LANDPLAN GROUP SOUTH
Landscape Architecture | Engineering | Planning

Church Street Pedestrian Plaza

Anderson, SC

Pre-Bid Meeting **Minutes**

July 21, 2026 - 2:00 PM

I) Introductions

II) Sign in Sheet

III) Point of Contact

- Rick McMackin (The LandPlan Group South) 803-256-0562
- Wade Sweat (The LandPlan Group South) 803-256-0562

IV) Review Project

A) Project narrative

The project consists of improvements to one (1) block of Church Street and Heritage Plaza that shall include but not be limited to demolition (brick crosswalks, granite curb, concrete curb, sidewalks, asphalt, etc.) the installation of new concrete crosswalk, concrete sidewalks, brick pavers, asphalt paving, concrete curb, granite curb, storm drainage inlets and piping, electrical conduit, low voltage lighting, and tree grates.

B) Addendums – Must be on Sign-In Sheet with legible email address

C) Funding Sources (City of Anderson)

D) Coordination with adjacent property owners/businesses **(the contractor is to maintain accessible public entry into active businesses throughout the duration of construction) Brief periods of inaccessibility required for**

improvements to doorway connections must be coordinated with the property owner/business owner.

E) Laydown yard (the contractor can use the existing parking spaces along the Main Street side of Heritage Plaza)

F) Street Ownership/Access around parking lot

G) Please see licensing, bonding and insurance requirements within the specs.

H) Stormwater/Underground

I) Low Voltage Lighting/Electrical (all electrical is to be design-build by contractor with coordination with City of Anderson and Duke Power)

J) Specifications: Bid-Schedule of Prices and Measurement & Payment

V) Questions & Answers

Deadline for Questions – August 4, 2026 by 5pm

VI) Schedule of Bid:

Bids due Wednesday August 12, 2026 by 2pm

City of Anderson – 401 South Main Street

Plans are available on-line for free upon request (admin@landplansouth.com), or hardcopy for \$100.00 – make checks payable to The Landplan Group South.

Pre-Bid Questions and Answers:

Q Who is responsible for third party testing?

A. The City of Anderson will cover any third party testing as needed.

Q. There is a conflict in the specifications and the drawings relating to the pavers. Which one is correct?

A. The paver specified on the layout plans is correct.

Q. When would the contractor be expected to begin work?

A. As quickly as the process allows. At the conclusion of the bid opening and the contractor receiving the Notice to Proceed.

Q. Does the project limits need to be fenced?

A. Fencing the project limits is up to the discretion of the contractor. If there are going to be valuable tools or site amenities stored on-site, it is encouraged to have them secured accordingly. Otherwise construction cones and netting can be used to deter persons from hazardous areas.

Additional Comments:

The City of Anderson is currently under contract with Southern Concrete for replacement of brick crosswalks along Main Street. The Church Street Pedestrian Improvements contractor will coordinate with City of Anderson staff and Southern Concrete as to determine which contractor the intersection of Church Street and Main Street crosswalks is ultimately responsible for completing.

There will be an addendum coming out with a correction on the Bid, Schedule of Prices. Item 4b. Pavement Markings will be a lump sum bid item.

If you have any additions or revisions to these minutes, please notify the writer as soon as possible.



Church Street Pedestrian Plaza

Anderson, SC

Mandatory Pre-Bid Conference

Tuesday, July 21, 2026, at 2:00 p.m.

Name	Company	Prime? (Y or N)	Phone number	Email address
Rick McMackin	The LandPlan Group South	N	803-256-0562	rmcmackin@landplansouth.com
Wade Sweat	The LandPlan Group South	N	803-256-0562	wsweat@landplansouth.com
Andrew Strickland	City of Anderson	N	864-231-1135	astrickland@cityofandersonsc.com
Nolan Kendinger	Foothills Contracting Service	Y	803-819-3245	estimating@scfoothills.com
ADAM CROMER	CITY OF ANDERSON		864-260-4736	ADCROMER@CITYOFANDERSONSC.COM
Spencer Stokes	Raby Construction	Y	864-421-5502	sstokes@rabyconstruction.com
Brandon Beattie	Mavin Construction	Y	864-444-2475	bbeattie@mavinconstruction.com
Clint Wittner	Cely Construction	Y	864-551-7499	cwittner@celyconstruction.com

Name	Company	Prime? (Y or N)	Phone number	Email address
Joe Harris	Southern Concrete + Const.	Y	864-505-2327	Kb01t@southernconcrete.dbe.com
Ron Reda	Bihn Const	Y	631-806-7908	Bihn Construction . Com
MIKE SWEATT	AOS SPECIALTY CO.	Y	803-960-3644	MIKE@AOSSE.ORG
Greg Broadwater	AR Construction Group	Y	864-208-4315	estimating@arconstructionsc.com
SHANE McCall	MATRIX Construction	Y	864-226-6443	smc@matrixsc.net
Hayden Arledge	Price Const.	Y	864-357-6964	hayden@priceconstruction.net

SECTION 01140

BID

TO: CITY OF ANDERSON (hereinafter called "Owner")

FROM: _____

Phone - _____

of the City of _____ County of _____

and State of _____, hereinafter called "Bidder".

PROJECT: **Church Street Pedestrian Plaza**
Anderson, South Carolina

Gentlemen:

The Bidder, in compliance with your Advertisement for Bids for the construction of above-referenced project, having examined the Drawings and Specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth therein, and the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder declares that he has carefully examined the site of the proposed Work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed Work, and the difficulties attendant upon its execution, and that he has carefully read and examined the Drawings, the annexed proposed Agreement, and the Specifications and other Contract Documents therein referred to, and knows and understands the terms and provisions thereof.

Bidder understands that information relative to existing structures, apparent and latent conditions, and natural phenomena, as furnished to him on the Drawings, in the Contract Documents, or by the Owner or the Engineer, carries no guarantee expressed or implied as to its completeness or accuracy, and he has made due allowance therefore.

He further understands that the quantities of work tabulated in the Bid are only approximate and are subject to increase or decrease as deemed necessary to the performance of the work by the Engineer; and that these quantities as shown will be used in arriving at the total Contract Price and determination of the lowest Bidder.

TIME FOR COMPLETION AND LIQUIDATED DAMAGES: Bidder hereby agrees to commence work under this contract within 10 days of receipt of the Notice to Proceed and to fully complete the project within 180 consecutive calendar days thereafter.

Bidder also agrees to pay \$150/day as liquidated damages for each consecutive calendar day thereafter as hereinafter provided in the General Conditions.

ADDENDA: Bidder acknowledges receipt of the following Addenda:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

SCHEDULE OF PRICES – Church Street Pedestrian Plaza

	Description	Qty	Unit	Unit Price	Price
1	Mobilization	1	LS		
2	Demolition	1	LS		
3	Remove & Replace Existing Brick Pavers	155	SY		
4	Paving				
	a. Milling and Overlay	105	SY		
	b. Pavement Markings	1	LS		

	Description	Qty	Unit	Unit Price	Price
5	Concrete Work				
	a. 18" Curb & Gutter	167	LF		
	b. Flush Curb & Gutter	16	LF		
	c. Flush Granite Curb	58	LF		
	d. Concrete Border (12" wide)	308	LF		
	e. Conc. Crosswalk/Drive	216	SY	NIC	NIC
	f. Scored Conc. Sidewalk (4" thick)	445	SY		
	g. Conc. Border (6" wide)	24	LF		
	h. Concrete Sculpture Base	1	LS		
6	Brick Masonry				
	a. Double Brick Border Course	92	LF		
	b. Single Row Brick Border	468	LF		
	c. Brick Paving	82	SY		
7	Storm Drainage				
	a. Trench Drain	1	LS		
	b. 6" PVC	38	LF		
	c. PVC Cleanout	2	EA		
	d. Curb Inlet	1	EA		
	e. Tie-In Roof Drains	4	EA		
	f. Modify Ex. Inlets to Junction Box	2	EA		
	g. Modify Ex. Junction Box for Offset Manhole	1	EA		
8	Planting				
	a. Goldspire Ginkgo	6	EA		
	b. Wintergreen Boxwood	28	EA		
	c. Encore Azlea	16	EA		
	d. Perennials	152	EA		
	e. Annuals	112	EA		
9	Irrigation	1	LS		
10	Miscellaneous				
	a. Catenary Lights & Poles	1	LS		
	b. Tree Grates (4' x 8')	6	EA		
	c. Bronze Plaque	3	EA		
	d. Bollards	13	EA		
	e. Pedestrian Crossing Signal	2	EA		
	f. Undergrounding Utility Lines	1	LS		
	g. Lighting Electrical (Allowance)	1	LS	\$80,000.00	\$80,000.00
11	Site Furniture				
	a. Tables	10	EA		
	b. Chairs	40	EA		

	Description	Qty	Unit	Unit Price	Price
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TOTAL BID – Items 1-11 inclusive: \$

Additions to work and deletions from work shall be paid in accordance with these unit prices.

The above unit prices shall include all labor, materials, de-watering, shoring, removal, overhead, profit, insurance, taxes, fees, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informality in the bidding. The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of 90 calendar days after the scheduled closed time for receiving bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder will execute the formal Agreement attached within 10 days, and deliver Surety Bonds as required by the General Conditions. The bid security attached in the sum of (\$_____) is to become the property of the Owner in the event the Agreement and Bond are not executed within the time above set forth as liquidated damages for the delay and additional expense to the Owner caused thereby.

The undersigned declares that his firm is (delete those not applicable):

A corporation organized and existing under the laws of the State of _____.

A partnership consisting of _____.

The undersigned declares that the person or person signing this proposal is fully authorized to sign the proposal on behalf of the firm listed and to fully bind the firm listed to all the conditions and provisions thereof.

It is agreed that no person or persons or company other than the firm listed below or as otherwise indicated hereinafter has any interest whatsoever in this proposal or the contract that may be entered into as a result thereof, and that in all respects the proposal is legal and fair, submitted in good faith, without collusion or fraud.

Respectfully Submitted:

(SEAL - if bid is by a
Corporation)

Contractor
By: _____

(Type/Print Name)

(Title)

(Street Address)

(City, State, Zip)

S.C. General Contractor's License No. _____

(End Section 01140)

GENERAL: The following paragraph establishes the basis for Measurement and payment for the Work to be performed under the respective Bid items listed in the BID, Section 01140.

The Bid Price shall constitute full compensation for doing each item of work including all activities and incidentals required for the installation and completion of each item and accordance with the Contract Drawings, Specifications and requirements.

The Bid Price for each item shall be full compensation for the following activities: Furnishing and installing all materials and equipment, including excavation, disposal of surplus excavated or material, backfill, compaction, all necessary sheeting and bracing, dewatering, handling water flows, property corners, signs, fences, shrubs, lawns, water lines, gas lines, storm drain lines and storm drainage structures, maintenance of drives and streets and protection of power and communication lines. The price shall also constitute full compensation for all barricades, lighting and flagmen as required for the protection of the public and public property.

Each price stated in the BID shall constitute full compensation for each completed item of work.

ITEM NO. 1 MOBILIZATION

The Lump Sum Bid for mobilization shall include:

1. The establishment of all temporary office, fencing, staging areas, haul routes, and other facilities necessary for the work on the project;
2. Surveying and construction staking;
3. Initial Performance bond, labor and materials bond;
4. General Liability and other Insurance requirements;
5. Installation and project duration maintenance of erosion control facilities such as inlet protection, construction entrances, and concrete washout areas. All work shall be done in accordance with the details;
6. Dewatering;
7. Traffic Control;
8. All other work and operations which must be performed or costs incurred prior to beginning work on the various items on the project site.
9. Third Party testing.

The mobilization cost shall be limited to nine percent (9%) of the original total contract amount. Ninety percent (90%) of the mobilization cost will be paid with the first pay request with the remaining being prorated over the duration of the project.

Payment, at the amount stated, will be full compensation for the work satisfactorily completed.

ITEM NO. 2 DEMOLITION

The Unit Price Bid for demolition shall include, but not be limited to, all costs for furnishing labor and equipment for the complete removal, salvage, and disposal of existing material necessary for the installation of concrete curb & gutter, concrete paving, drainage, brick paving, asphalt paving, and other miscellaneous work shown on the layout plans. Demolition work includes removal and disposal of concrete sidewalk, concrete curb, asphalt, adjust utility covers to grade, and incidental items necessary to install new work. Demolition work shall be performed in accordance with Specification Section 02050, DEMOLITION AND REMOVAL.

Measurement will be on a completed re-installed site.

Payment at the Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 3 REMOVE & REPLACE EXISTING BRICK PAVERS

The Unit Price Bid for removal and re-installation of existing brick pavers shall include all costs for furnishing all materials, labor and equipment required to install the work shown at the location shown on the drawings. The unit price bid shall also include all related site preparation costs, including but not necessarily limited to compaction and disposal of any excess material.

Measurement will be on a completed graded site.

Payment at the ~~lump sum~~ Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 4a. MILLING AND OVERLAY

The unit price bid per Square Yard for this Item shall be full compensation for all labor, materials, tools, equipment, supervision, and incidentals required to perform milling existing pavement placing asphalt surface Course per SCDOT specifications and as shown on the drawings.

Measurement will be per square yard of completed milling and overlay.

Payment at the Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 4b. PAVEMENT MARKINGS

The Lump Sum Price for this item shall include costs for thermoplastic pavement striping and marking, to include but is not limited to, triangular directional arrows on the new asphalt ramp to speed table as shown on the drawings.

Measurement will be on all striping installed and accepted.

Payment at the Lump Sum Price Bid will be full compensation for work satisfactorily completed.

ITEM NO. 5a. – d. CONCRETE WORK -CURB & GUTTER, MISC. CURB

The Unit Price Bid for concrete curb and gutter shall include (but not be limited to), all costs for furnishing all material, labor, and equipment required to construct concrete curb and gutter and flush concrete curb at the locations indicated on the plans and as specified herein.

Measurement will be in linear feet of new concrete curb and gutter, flush concrete curb, granite curb, and roll curb in place and accepted. Length of curb & gutter will be measured in accordance with the plans. Flush curb and granite curb will be measured at all handicap landings. Roll curb will be measured at driveways.

Payment will be made at the Unit Price Bid for concrete curb and gutter, and misc. curb measured as specified above and constitute full compensation for the work satisfactorily completed.

ITEM NO. 5e. CONCRETE CROSSWALK

The Unit Price Bid for concrete sidewalk: 6" thick shall include all costs for furnishing all materials, labor, and equipment to install concrete crosswalks at the locations on the drawings and in CAST-IN-PLACE CONCRETE. The Bid Price shall also include all preparation costs, including but not necessarily limited to, excavation, grading, forming, scoring brush and window detail, reinforcing, compaction, and disposal of any excess materials.

Measurement will be on a square yard basis of the completed concrete crosswalk surface.

Payment at the Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 5f. SCORED CONCRETE SIDEWALK

The Unit Price Bid for concrete sidewalk 4" thick with gridded scored joints shall include all costs for furnishing all materials, labor, and equipment to install concrete slab at the locations on the drawings and in CAST-IN-PLACE CONCRETE. The Bid Price shall also include all preparation costs, including but not necessarily limited to, excavation, grading, forming, scoring, finishing, reinforcing, compaction, and disposal of any excess materials.

Measurement will be on a square yard basis of completed concrete slab surface.

Payment at the Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 5g. CONCRETE BORDER (6" wide)

The Unit Price Bid for concrete border: 6" wide, 4" thick, shall include all costs for furnishing all materials, labor, and equipment to install concrete at the locations on the drawings and in CAST-IN-PLACE CONCRETE. The Bid Price shall also include all preparation costs, including but not necessarily limited to, excavation, grading, forming, reinforcing, compaction, and disposal of any excess materials.

Measurement will be on a linear foot basis of the completed concrete border.

Payment at the Unit Price Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 5h. CONCRETE SCULPTURE BASE

The Lump Sum Bid for concrete sculpture base shall include all costs for furnishing all materials, labor, and equipment to install concrete base at the location on the drawings and in CAST-IN-PLACE CONCRETE. The Bid Price shall also include all preparation costs, including but not necessarily limited to, excavation, grading, forming, finishing, reinforcing, compaction, and disposal of any excess materials.

Measurement will be on a lump sum basis of the completed concrete base.

Payment at the Lump Sum Bid will be full compensation for the work satisfactorily completed.

ITEM NO. 6a.-b. BRICK BORDER COURSE W/BASE

The Unit Price Bid for all brick work shall include (but not be limited to), all cost for furnishing all material, labor and equipment required for the installation of single and double brick border course in accordance with the drawings and specifications including detailing as shown in the drawings. The price shall also include the installation of concrete base with sand cement setting bed and mortar joints.

Measurement for brick border course shall be in linear feet.

Payment, at the Unit Price Bid, will be full compensation for the work satisfactorily completed.

ITEM NO. 6c. BRICK PAVERS W/BASE

The Unit Price Bid for all brick work shall include (but not be limited to), all cost for furnishing all material, labor and equipment required for the installation of brick paving in accordance with the drawings and specifications including detailing as shown in the drawings. The price shall also include the installation of the sand cement setting bed and sand swept joints. Payment will be made at the Unit Price Bid, measured as specified

above and will constitute full compensation for the work satisfactorily completed and accepted.

The brick paving will be measured on a square yard basis of the work completed.

Payment, at the Unit Price Bid, will be full compensation for each item of work satisfactorily completed.

ITEMS NO. 7a. & b. TRENCH DRAIN 8" & 6" PVC

The Unit Price Bid for installing trench drain and 6" sewer lines indicated on the drawings shall include the costs for furnishing and installing the drain pipe lines and trench frame and grates as well as the costs of trench excavation, disposal of excess excavated material off-site, sheeting and bracing, dewatering, locating, avoiding, and working around existing utilities. Hauling of fill materials, backfilling, compaction, grading, drain line tie-in to existing structures, and all other work associated with the requirements for the pipe installation shall also be included.

Measurement for drain pipe lines shall be in linear feet along the center line of the pipe as measured horizontally from the inside face of the outlet drainage structure to the inside face of the inlet drainage structure. This will reflect the actual length of pipe installed. Drain pipe lines without drainage structure inlet or outlet shall be measured to the end of the pipe.

Measurement for trench drain shall be Lump Sum and shall include 8" PVC tie-in to the existing structure.

Payment for 6" PVC at the Linear Foot Bid, will be full compensation for the work satisfactorily completed.

Payment for trench drain at the Lump Sum Bid, will be full compensation for the work satisfactorily completed.

ITEM NO. 7c. PVC CLEANOUT

The Unit Price Bid for PVC cleanouts shall include furnishing the materials, labor and equipment, as well as the cost, including but not necessarily limited to, for excavation, removal of existing curb inlet, if necessary, shoring, dewatering, backfilling, compaction, and disposal of any excess material, in the installation of PVC cleanouts at the locations specified on the drawings.

The method of measurement will be the number of cleanouts installed.

Payment, at the Unit Price Bid, will be full compensation for each item of work satisfactorily completed.

ITEM NO. 7d. CURB INLET

The Unit Price Bid for drainage structures shall include furnishing the materials, labor and equipment, as well as the cost, including but not necessarily limited to, for excavation, removal of existing curb inlet, if necessary, shoring, dewatering, backfilling, compaction, and disposal of any excess material, in the installation of drainage structures at the locations specified on the drawings and in accordance with Specification Section 02454, STRUCTURES and SCDOT standards. Frames and covers are to be included in the Unit Bid price.

The method of measurement will be the number of drainage structures installed.

Payment, at the Unit Price Bid, will be full compensation for each item of work satisfactorily completed.

ITEM NO. 7e. TIE-IN ROOF DRAINS

The Unit Price Bid for tie-in to the existing RCP Storm pipe shall include (but not be limited to), all costs for furnishing all material, labor, and equipment required to provide connection an estimated two locations on each side of East Church St. (Total of 4).

Measurement will be completely installed tie-in and accepted.

Payment will be made at Unit Price Bid, will be full compensation for the work satisfactorily

ITEM NO. 7f. MODIFY EXISTING CURB INLETS

The Unit Price Bid for converting existing inlets to junction boxes by replacing tops and modifying the drainage structure shall include (but not be limited to), all costs for furnishing all material, labor, and equipment required to provide junction boxes at the locations indicated on the plans and as specified herein.

Measurement will be will be the number of completely modified structures.

Payment will be made at Unit Price Bid, will be full compensation for the work satisfactorily completed.

ITEM NO. 7g. MODIFY EXISTING JUNCTION BOX FOR OFFSET MANHOLE

The Unit Price Bid for modification/rebuilding existing junction box for an offset manhole shall include (but not be limited to), all costs for furnishing all material labor and equipment required at the location indicated on the plans and as specified herein. ~~The Unit Price Bid for street lights shall include all electrical design & wiring plans, permitting, labor, materials, and equipment for installation, connection, and coordination with the City~~

~~of Anderson at the location shown on the Drawings, and in accordance with the Details. Coordination with the electrical utility is also included herein.~~

Measurement will be the number of complete by modified structures.

Payment will be made at Unit Price Bid, will be full compensation for the work satisfactorily completed.

ITEMS NO. 8a. – 8e. PLANTING

The Unit Price Bid for planting shall include costs for furnishing all labor, equipment and materials including planting and planting mixtures for providing and installing the plant material at the locations shown on the drawings and in accordance with the specifications. The Contractor also shall include planting mix and mulch to match existing, in the bid price. Top soil shall be covered in ITEM 4.

Measurement will be on Unit Price basis for plant material installed.

Payment, at the Unit Price Bid, will be full compensation for the work satisfactorily completed.

ITEMS NO. 9. IRRIGATION

The Lump Sum Bid for items under irrigation shall include all costs for all labor, equipment, and material for installing sleeving conduits and drip irrigation system to all new plantings at locations on the Drawings and in accordance with the details and specifications. The price shall include the existing irrigation system. The Contractor will be required to coordinate with City staff for installation of a new irrigation water supply line to the existing system.

Measurement will be on a lump sum basis of all irrigation installed and accepted.

Payment, at the Lump Sum Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 10a. CATENARY LIGHTS & POLES

The Lump Sum Bid for items Catenary Lights & Poles shall include all costs for all labor, equipment and materials for installing the decorative posts, catenary (string) lights, outlet receptacles and transformer as shown and described on the drawings. The price shall include coordination with Duke Energy and City of Anderson for electric service connections.

Measurement will be on a Lump Sum basis for all Catenary Poles and Lighting installed and accepted.

Payment, at the Lump Sum Bid, will be fill compensation for all work satisfactorily completed.

ITEMS NO. 10b. TREE GRATES

The Unit Price Bid for tree grates shall include all labor, materials, and equipment for installation of tree grates at the location shown on the Drawings, and in accordance with the Details.

Payment will be measured on a per-item basis of tree grates installed.

Payment, at the Unit Price Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 10c. & 10d. BRONZE PLAQUES & BOLLARDS

The Unit Price Bid for bollards and plaques shall include all labor, materials, and equipment for installation of bollards and plaques at the locations shown on the Drawings, and in accordance with the Details.

Payment will be measured on a per-item basis of bollards installed.

Payment, at the Unit Price Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 10e. PEDESTRIAN CROSSING SIGNAL

The Unit Price Bid for pedestrian traffic signal shall include all labor, materials, and equipment for installation of pedestrian crossing signalization at the location shown on the Drawings.

Payment will be measured on a per-item basis of Pedestrian Crossing Signal.

Payment, at the Unit Price Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 10f. UNDERGROUNDING UTILITY LINES

The Lump Sum Bid for items under undergrounding utility lines shall include costs for all labor, equipment, conduit (if required) and material. The price shall include coordination with all effected local utility companies and City of Anderson. Coordinating with local utility companies for installation of conduits needed to place existing overhead utility lines underground at the rear of the existing buildings on East Church Street, crossing the east end of the new courtyard and existing overhead utility lines across the west side of the intersection of Main Street & Church Street.

Payment will be measured on a per Lump Sum basis of conduit installed and accepted.

Payment, at the Lump Sum Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 10g. LIGHTING & ELECTRICAL

The Lump Sum bid for items under Lighting & Electrical shall include **electrical design and** costs for all labor, equipment and material for installing the lighting fixtures, wiring, **conduits** and transformer as shown on site plan sheet C200 for electric service connections. **Contractor shall coordinate with local utility companies and City of Anderson.**

Payment will be measured on a per ~~linear foot~~ **lump sum** basis of ~~conduit~~ **all work** installed and accepted.

Payment, at the **lump sum** Bid, will be full compensation for all work satisfactorily completed.

ITEMS NO. 11a. & b. SITE FURNITURE

The Unit Price Bid for site furniture shall include all materials, labor and equipment for providing and installing all specified tables and chairs at locations as coordinated with Owner.

Payment will be measured on a per item basis.

Payment, at the Unit Price Bid, will be full compensation for all work satisfactorily completed.

(End Section 01250)

PART ONE – GENERAL

1.1. The work covered by this section consists of all cast-in-place concrete work and related items as shown on the plans and as specified herein.

1.2. The CONTRACTOR shall furnish all equipment, tools, labor and materials necessary to complete the work in accordance with the plans and specification.

1.3 Related Work and References

1.3.1 Related Specifications: General Conditions, Special Conditions, and Sections in Division 1 of these Specifications as well as Division 2 affecting work in this Section.

1.3.2 References: Any reference to standard National or State Specifications and/or Regulations refers to the most current published date of the specifications and/or regulations listed in Section 01016 of these specifications unless noted otherwise.

The design, manufacture, and installation of these materials shall meet or exceed the applicable provisions and recommendations of the noted National Specifications and/or Regulations or meet the requirements of the latest revision of these specifications or regulations.

Nation Codes affecting work in this Section of the Specifications:

- ACI Codes as stated in Part 2 and 3 of this Section
- ASTM Codes as stated in Part 2 and 3 of this Section
- U. S Army Corps of ENGINEERS Standard Specifications as stated in Part 2 and 3 of this Section
- National Ready Mixed Concrete Association's Plant Certification Check List

1.4 Quality Assurance

1.4.1 Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.4.2 A testing laboratory will be retained by the OWNER to perform material evaluation tests as required by these Specifications.

1.4.3 The CONTRACTORS performing the concrete work shall have a minimum of two (2) years experience on comparable concrete projects.

1.4.4 The concrete supplier's plant equipment and facilities shall meet all requirements of the "Check List for Certification of Ready Mixed Concrete Production Facilities" of the National Ready Mixed Concrete Association and ASTM C94.

1.5 Submittals

1.5.1 Comply with the pertinent provisions of Section 01340 (Shop Drawings, Product Data and Samples).

1.5.2 Within 21 days after receiving the OWNER's Notice to Proceed, submit proposed concrete mix designs for approval. Submit two copies of each laboratory trial mix design proposed in accordance with ACI 301, Method 1, which is based on trial batches and requires an average strength 1200 psi greater than the specified strength; or ACI 301, Method 2, which is based on at least 30 consecutive strength tests of a similar mix obtained within the past year. The cost of this work is to be borne by the CONTRACTOR.

1.5.3 Submit manufacturer's specification with application instructions for proprietary materials and items, including curing compounds, form release agents, admixtures, patching compounds and others as required by the ENGINEER.

1.5.4 Submit reinforcing steel shop drawings and manufacturer's data for approval to the ENGINEER before work is started.

1.5.4.1 Metal Reinforcement: Shop drawings shall show complete information for placing reinforcement, including type or shape of each bar, dimensions to ends of bars, amount of concrete (clear) cover, spacing of bars, number of bars at each location and other pertinent dimensions. All wall reinforcing steel shall be detailed and shown in elevations of the walls. Shop Drawings of the following items shall be submitted to the ENGINEER for review prior to fabrication or delivery to the job site.

1.5.5 Concrete Tests: Two copies of all concrete test results shall be submitted to the ENGINEER. Each test report shall indicate the specific structure where the concrete was placed.

1.5.6 Other: For each batch (truckload) of concrete, the concrete supplier shall provide a delivery ticket in accordance with ASTM C94. The ticket shall also indicate the time the concrete is placed. One copy of each delivery ticket shall be furnished to the ENGINEER or his representative. CONTRACTOR shall keep another copy of each delivery ticket at the job site until final acceptance.

PART TWO – MATERIALS:

2.1. General

2.1.1. Class of Concrete: All concrete shall be Class A, as hereinafter specified, except where specifically noted otherwise.

2.1.2. References: Materials and work shall conform to the requirements of all specifications, standards, codes and recommended practices referenced herein. References to specifications, standards, codes, etc., shall mean the latest edition or revision in effect at the time of bid opening, unless otherwise specified. In conflicts between referenced

standards and this specification, or this specification and the local building code, the more stringent requirements shall govern.

2.1.3. Publications: CONTRACTOR shall keep the following publications on file at the site at all times during construction.

ACI SP 15	Field Reference Manual; Specification for structural concrete for buildings with selected ACI and ASTM references.
ACI SP 66	ACI Detailing Manual
ACI 311	Recommended Practice for Concrete Inspection
ACI 318	Building Code Requirements for Reinforced Concrete
ACI 350R	Concrete Sanitary ENGINEERING Structures

2.1.4. General Specifications: Concrete work shall conform to all requirements of ACI 301, "Specifications for Structural Concrete for Buildings," except as modified by these contract documents.

2.2. Testing and Inspection

Materials and operations shall be tested and inspected as work progresses. Failure to detect defective work will not prevent rejection when the defect is discovered, nor shall it obligate the ENGINEER for final acceptance. Testing agencies will be selected by the CONTRACTOR and approved by the ENGINEER, and shall meet the requirements of ASTM E329. Contractor to test each footing location to ensure soils have the minimum bearing pressure as required in the Report of Geotechnical Exploration by S&ME dated June 4, 2012.

2.2.1. Concrete Testing: CONTRACTOR shall have a qualified technician from an independent laboratory take samples, prepare specimens and perform on-site testing, at the CONTRACTOR's expense. Technician shall be on site prior to starting the pour and shall remain on site until the pour is completed. He shall immediately notify the CONTRACTOR and ENGINEER of any concrete that does not meet the specifications. For very small pours, the ENGINEER may waive the requirements for an independent testing laboratory and for the tests specified in paragraphs 2.2.1.3 and 2.2.1.5 below. CONTRACTOR shall request this waiver in writing at least seven days before the pour. These requirements will normally be waived only for concrete that is not in a liquid-retaining structure nor exposed to the weather. CONTRACTOR shall also pay the cost of qualification of proposed materials, establishment of mix designs in accordance with ACI 301, shipment of specimens to the testing laboratory, laboratory testing and reports, and additional testing required if initial tests indicate that the material may be substandard (even if the additional test reveals that the material is satisfactory). The following tests shall be the minimum required.

2.2.1.1. Samples from which test specimens are made shall be secured in accordance with ASTM C172 requirements for composite samples. Specimens shall be molded and cured in accordance with ASTM C31. Specimens shall be tested in accordance with ASTM C39. Four strength specimens shall be taken for each 50 cu. yd., or fraction thereof, of each mix design of concrete placed in any one day; one tested at 7 days, two tested at 28 days and one to be retained as a spare.

2.2.1.2. Slump test shall be made in accordance with ASTM C143. One test shall be made from each sample taken for a strength test specimen, or whenever the consistency of concrete appears to vary. If the slump in any test is outside the design range, at least one strength specimen shall be taken from that sample.

2.2.1.3. Entrained air content shall be determined in accordance with ASTM C231 or ASTM C173, as applicable. One test shall be made from each sample taken for a strength test specimen.

2.2.1.4. Temperature of each sample taken for a strength test specimen shall be determined.

2.2.1.5. Unit weight, yield and air content (gravimetric) of concrete shall be determined in accordance with ASTM C138.

2.3. Evaluation and Acceptance

2.3.1. Field Conditions: Concrete materials and operations shall be tested and inspected prior to concrete being placed. Whenever a concrete truckload is rejected for any reason, the truck will not be allowed on the site for at least three hours. The contents of rejected truckloads shall remain the property of the concrete supplier and shall be disposed of properly off the site.

2.3.2. Failure to meet the maximum time limits as specified in ASTM C94 for mixing and placing of concrete, or if concrete has attained its initial set before placing, will result in rejection of each individual truckload. No tests shall be performed and the delivery ticket shall remain at the site with the reason for rejection written thereon.

2.3.3. Failure to meet the requirements of the tests specified herein will result in rejection of each individual truckload.

2.3.4. Laboratory Testing: Evaluation and acceptance based on laboratory testing shall be in accordance with ACI 318, except that the ENGINEER will be the referenced "building official".

2.4. Submittals

CONTRACTOR shall make the following submittals to the ENGINEER.

2.4.1. Mix Designs: Submit two copies of each laboratory trial mix design proposed in accordance with ACI 301, Method 1, which is based on trial batches and requires an average strength 1200 psi greater than the specified strength; or ACI 301, Method 2, which is based on at least 30 consecutive strength tests of a similar mix obtained within the past year.

2.4.2. Shop Drawings of the following items shall be submitted to the ENGINEER for review prior to fabrication or delivery to the job site.

2.4.2.1. Metal Reinforcement: Shop drawings shall show complete information for placing reinforcement, including type or shape of each bar, dimensions to ends of bars, amount of concrete (clear) cover, spacing of bars, number of bars at each location and other pertinent dimensions. All wall reinforcing steel shall be detailed and shown in elevations of the walls.

2.4.2.2. Other Materials and Products: Catalog cuts and other descriptive data shall be submitted for all manufactured materials and products to be used in the work.

2.4.3. Concrete Tests: Two copies of all concrete test results shall be submitted to the ENGINEER. Each test report shall indicate the specific structure where the concrete was placed.

2.4.4. Other: For each batch (truckload) of concrete, the concrete supplier shall provide a delivery ticket in accordance with ASTM C94. The ticket shall also indicate the time the concrete is placed. One copy of each delivery ticket shall be furnished to the ENGINEER or his representative. CONTRACTOR shall keep another copy of each delivery ticket at the job site until final acceptance.

2.5. Materials and Products

2.5.1. Cement: ASTM C150, Type I or II. Air-entraining cement shall not be used. Cement used in the work shall correspond to that upon which the selection of concrete proportions was based. Only one brand and manufacture of approved cement shall be used for exposed concrete.

2.5.1.1. Type III cement shall be used where specifically noted on the plans or when prior written approval has been obtained by the CONTRACTOR from the ENGINEER.

2.5.2. Aggregates: ASTM C33. Local aggregates not complying with ASTM C33 may be used provided it can be shown by special test or a record of past performance that these aggregates produce concrete of adequate strength and durability.

2.5.2.1. Fine Aggregate shall be clean, sharp, natural sand.

2.5.2.2. Coarse Aggregate shall be Size No. 57, 67 or 467.

2.5.3. Water shall be fresh, clean and potable.

2.5.4. Admixtures: When requested, a qualified concrete technician employed by the admixture manufacturer shall be available to assist in proportioning concrete materials for optimum use, and to advise on proper use of the admixture and adjustment of concrete mix proportions to meet job-site and climatic conditions.

2.5.4.1. Water Reducing Admixture: "Eucon WR-75" by Euclid Chemical Co., "Pozzolith 122N" by Master Builders, "Plastocrete" by Sika Chemical Corp., or equal. Admixture shall conform to ASTM C494, Type A, and shall not contain more than 1% chloride ions.

2.5.4.2. High Range Water Reducing (HRWR) Admixture (Superplasticizer): "Eucon 37" by Euclid Chemical Co., "Sikament" by Sika Chemical Corp., "Melment" by American Admixtures Co., or equal. Admixture shall conform to ASTM C494, Type F or G, and shall not contain more than 1% chloride ions.

2.5.4.3. Non-Corrosive Accelerator: "Accelguard 80" by Euclid Chemical Co., "Daraset" by W. R. Grace, or equal. Admixture shall conform to ASTM C494, Type C or E, and shall not contain more than 1% chloride ions.

2.5.4.4. Air-Entraining Admixture: ASTM C260

2.5.4.5. Retarding Admixture: "Eucon Retarder 75" by Euclid Chemical Co., "Pozzolith 300R" by Master Builders, or equal. Admixture shall conform to ASTM C494, Type B or D, and shall not contain more than 1% chloride ions.

2.5.4.6. Fly Ash: ASTM C618. Quantity of fly ash shall be less than 25% of the combined weight of cement and fly ash. Fly ash to come from the SCE&G/SCANA Wateree Station and McMeekin Station.

2.6. Curing Materials

2.6.1. Waterproof Sheet Material: ASTM C171.

2.6.2. Curing Compounds: "Super Pliocure" by Euclid, "Super Floor Coat" by Euclid, or "Masture Kure-CRC" by Master Builders or equal. Product shall be a curing, sealing and hardening product with approximately 30% solids and shall meet the requirements of ASTM C-309.

2.7. WATERSTOPS shall be steel plate, 1/8 x 6-inch; except where non-metallic waterstops are specified or noted on the plans.

2.7.1 Waterstops at submerged expansion joints shall be the dumbbell or center bulb type, and shall be of rubber, PVC, styrenebutadiene or neoprene. Unless otherwise noted, dumbbell type shall be 3/8 x 6-inch with 3/4-inch end bulbs and center bulb type shall be 1/4 x 6-inch with 5/8-inch end bulbs and 1-1/8 inch center bulb.

2.8.1. Non-Shrink Grout

Non-metallic conforming to "Corps of ENGINEERs Specification for Non-Shrink Grout" CRD-C-621, Type D; "Euco N-S" by Euclid Chemical Co., "Masterflow 713" by Master Builders, Crystex" by L & M Construction Chemicals, or equal.

2.9. Bonding Compound

2.9.1. Not Exposed to Water after Placement: Polyvinyl acetate, rewettable type; "Euco Weld" by Euclid Chemical Co., "Weldcrete" by Larsen, "Everbond" by L & M Construction Chemicals, or equal.

2.9.2. Exposed to Water after Placement: "SBR Latex" or "Flex-Con" by Euclid Chemical Co., "Sikatop" polymer when used with "Sikatop" by Sika Chemical Corp., "Everbond" by L & M Construction Chemicals, or equal. Epoxy adhesives may also be used.

2.10. METAL REINFORCEMENT shall be reinforcing steel or welded wire fabric, as shown on the plans. If requested, manufacturer's certificates showing conformance with the specifications shall be furnished to the ENGINEER.

2.10.1. Reinforcing Steel shall be deformed steel bars conforming to ASTM A615, Grade 60 unless otherwise noted.

2.10.2. Welded Wire Fabric: ASTM A185.

2.11. JOINT FILLERS shall be preformed bituminous self-sealing type conforming to ASTM D994, unless otherwise noted.

2.12 Formwork

2.12.1. Forms for Exposed Concrete shall be of plywood, and shall provide continuous, straight, smooth surfaces. Plywood shall be B-B Plyform, Class I Exterior, 5/8-inch thick minimum. Metal and other types of forms shall be used only upon approval of the ENGINEER. Symons forms with plywood, or equivalent, shall be acceptable.

2.12.2. Forms for Unexposed Concrete may be of undressed square-edge tongue-and-groove lumber, or of plywood.

2.12.3. Form Oil shall be a light colored, non-staining form coating compound. Form oil for steel forms shall be rust-preventive type.

2.12.4. Storm Ties shall be factory fabricated, adjustable length type designed to prevent from deflection and spalling of concrete surfaces upon removal. Ties shall be of the type to have metal not less than 1 inch from exposed concrete surfaces. Wire ties will not be permitted where wire is embedded in finished concrete. Form ties fabricated at the job site will not be acceptable. Ties in liquid-retaining structures shall have a waterstop in the middle of the tie.

2.12.5. Vertical sides of excavations may be used for placing concrete in lieu of forms, provided that the sides are clean cut and remain stable while the concrete work is being accomplished.

2.13. MATERIAL STORAGE: Storage of materials shall be subject to approval of the ENGINEER and shall be such that damage from water, freezing and other sources is prevented. No damaged or deteriorated material shall be used for concrete.

2.13.1. Cement shall be stored in enclosed shelters to prevent damage from moisture. Supporting floors shall be at least 1 foot above ground or otherwise suitably protected against moisture penetration.

2.13.2. Aggregates shall be stored in separate piles, and in such manner as to prevent inclusion of dirt and other foreign materials.

2.13.3. Admixtures: Dry admixtures shall be stored as specified for cement. Liquid admixtures shall be protected from freezing and from settling out of solution.

2.13.4. Metal Reinforcement shall be stored off the ground, protected from the weather, and so that it can be easily identified.

2.13.5. Other Materials shall be suitably stored to prevent damage or misuse.

2.14 Selection of Proportions

Concrete shall be composed of cement, fine and coarse aggregate, water and the required admixtures. Proportions of ingredients shall produce concrete of the proper consistency that works readily into corners and angles of forms and around reinforcement without excessive segregation or bleed water forming on the surface; concrete that provides resistance to freezing, thawing and other aggressive actions; and concrete that meets the strength and other requirements specified herein. Proportioning of materials shall be in accordance with ACI 211.1, ACI 318 and ACI 301 (Method 1 or Method 2).

2.15 Concrete Quality

Concrete work shall conform to all requirements of ACI 301, except where specifically modified by the plans and specifications for this project. Concrete shall be composed so as to obtain the following compressive strengths at 28 days.

Class AA	4000 psi
Class A	3500 psi
Class B	2500 psi
Class C	2000 psi

Note: Water-cement ration requirements may be more restrictive than the strength requirements.

2.15.1. Minimum Cement Content for Class A Concrete shall be 517 lb./cu. yd. for coarse aggregate size No. 467, and 564 lb./cu. yd. for coarse aggregate size No. 57 or 67.

2.15.2. Air-Entrained Concrete: Concrete exposed to the weather or in liquid-retaining structures shall be air-entrained. Total air content required shall be 5-1/2% + 1% for coarse aggregate size No. 467, and 6% + 1% for coarse aggregate size No. 57 or 67. The design mix shall be based on the midpoint of the applicable range, and the field delivered concrete shall be within that range.

2.15.3. Air content shall be measured in accordance with ASTM C173, or ASTM C231.

2.15.4. Slump shall be determined in accordance with ASTM C143.

2.15.5. Maximum slump for walls shall be 3 inches prior to addition of the HRWR admixture. Admixture shall be added in sufficient quantities to provide a minimum slump of 5 inches prior to placement of concrete.

2.15.6. The maximums specified above may be increased to 8 inches by using the HRWR admixture. However, slump will be checked prior to the addition of the HRWR admixture, and shall meet the restrictions specified above.

2.16. HARDENING OF CONCRETE: Concrete shall be adjusted to produce the required rate of hardening for various climatic and job-site conditions. The rate of hardening shall be as follows:

<u>Ambient Temperature</u>	<u>Admixture (ASTM C494)</u>
Under 50 degrees F	Type E (accelerating)
Over 80 degrees F	Type D (retarding)
50 degrees F to 80 degrees F	Type A (normal rate of hardening)

2.17. Admixtures

All other concrete shall contain a water reducing admixture. All thin slabs, less than 8 inches thick, placed at air temperatures below 50 degrees F, shall contain the specified non-corrosive accelerator. All concrete required to be air-entrained shall contain an approved air-entraining admixture. When increased ultimate and/or early strengths are required, the appropriate admixture shall be used.

2.18. Water-Cement Ratio

Class A concrete or better shall have a maximum water-cement ratio of 0.45. When used, fly ash shall be included with the cement to determine the water-cement ratio.

PART THREE – INSTALLATION:

3.1. Construction of Forms

Forms for concrete shall conform to the shapes, lines and dimensions of the members as shown on the plans, and shall be sufficiently tight to prevent leakage of mortar. Forms shall have sufficient strength to withstand forces from the placement and vibration of concrete, and shall be properly braced or tied together to maintain position and shape.

3.1.1. Design: Formwork shall be designed for loads, lateral pressure and allowable stresses in accordance with ACI 347. All tolerances, preparation of form surfaces, removal of forms, reshoring and removal strength shall be in accordance with ACI 301. Design, engineering and construction of formwork shall be the responsibility of the CONTRACTOR.

3.1.2. Erection of Forms:

3.1.2.1. Forms shall be erected to the sizes, shapes and dimensions shown on the plans, true to line and grade. Forms shall be fabricated to permit easy removal without damage to concrete.

3.1.2.2. All formwork shall be provided with adequate cleanout openings to permit inspection and easy cleaning. Wood chips, sawdust, dirt and other debris shall be removed just before concrete is placed.

3.1.2.3. All exposed corners and edges of forms shall be provided with a 3/4-inch chamfer. Chamfer strips shall be of wood, metal, PVC or rubber.

3.1.2.4. Contact surfaces of forms shall be oiled and allowed to dry before reinforcement is placed. Form oil shall be applied in accordance with the manufacturer's instructions. All excess oil shall be removed.

3.1.2.5. Forms to be re-used in the work shall be thoroughly clean and free of splits, distortion and other damage. Re-used forms shall be oiled as specified for new forms.

3.1.3. Extreme Weather Requirements: During cold weather, forms shall be kept free from frost or ice. In hot weather, forms shall be properly prepared to prevent loss of water prior to placing concrete, and shall be well oiled and sprinkled as necessary to keep them cool.

3.2. Concrete Reinforcement

Reinforcement shall be accurately formed to the required lengths, dimensions and shapes as shown on the plans, prior to shipment to the job site. Shop drawings shall be reviewed prior to fabrication. All bars shall be bent cold, unless otherwise directed by the ENGINEER. Bars partially embedded in concrete shall not be field bent, unless otherwise shown on the plans or specifically permitted by the ENGINEER. All requirements for reinforcement not shown on the plans or specified herein shall be in accordance with ACI 315.

3.2.1 Shipping and Handling: Reinforcement shall be delivered to the job site tied in bundles so as to be easily handled, and tagged with non-rusting metal tags showing shop drawing numbers.

3.2.2. Placing: Reinforcement shall be carefully and accurately placed as shown on the plans, and adequately secured in position by concrete, metal or other approved chairs, spacers or ties to prevent displacement during the concreting operation. At the time concrete is placed, reinforcement shall be free from thick rust, mill scale, ice, frost, oil, grease or other coatings that destroy or reduce the bond.

3.2.3. Splices: Unless otherwise noted, splices in reinforcement shall be Class C in accordance with ACI 318. All splices shall be approved by the ENGINEER, and shall be securely tied with wire or cable clamps.

3.2.4. Cutting of reinforcement in the field will not be allowed, unless specifically approved by the ENGINEER.

3.2.5. Concrete Protection: Unless otherwise noted, the minimum cover of concrete over reinforcement shall be in accordance with ACI 318 or shall be as shown on the plans.

3.2.6. Exposed Reinforcing Bars intended for bonding with future work shall be adequately protected against corrosion.

3.2.7. Field Bending of reinforcement is strictly prohibited, except where specifically approved by the ENGINEER on a limited basis for each particular case. When approved, field bending shall be done using cold bends conforming to all applicable codes; heat will not be allowed.

3.3. JOINTS AND EMBEDDED ITEMS shall be provided where shown on the plans or as directed by the ENGINEER.

3.3.1. Joints not shown on the plans shall be made and located to least impair the strength of the structure, and shall be approved by the ENGINEER.

3.3.1.1. All reinforcement shall be continued across construction and contraction joints, unless noted otherwise; keys and dowels shall be provided as directed by the ENGINEER.

3.3.1.2. Joint filler shall be placed in all expansion and isolation joints.

3.3.1.3. Contraction joints shall be formed, tooled or sawed approximately equal to 1/4 the thickness of the member.

3.3.1.4. All joints in liquid-retaining structures shall be provided with a waterstop, unless otherwise directed in each instance by the ENGINEER.

3.3.1.5. Dowel length into adjoining concrete shall be considered a minimum of full splice length, and shall conform to all requirements for splices as specified above.

3.4. SUBMERGED EXPANSION AND CONTRACTION JOINTS shall be provided as detailed on the plans. All manufactured products shall be applied in accordance with the manufacturer's instructions.

3.4.1. Other Embedded Items: All sleeves, wall pipe, nipples, inserts, anchors, hangers and other embedded items required for adjoining work or for its support shall be placed prior to placing concrete, and shall be positioned accurately and supported against displacement.

3.5. Mixing and Placing

CONTRACTOR shall provide access for delivery and sufficient equipment and manpower to rapidly place all concrete. All work shall be done in accordance with ACI 304.

3.5.1. Preparation of Equipment and Place of Deposit: Before placement of concrete, equipment used for mixing and transporting concrete shall be thoroughly cleaned. All formwork shall be complete; snow, ice, water and debris shall be removed from within forms. Expansion joints material, anchors and other embedded items shall be properly secured in position. Subgrades shall be sprinkled sufficiently to eliminate water loss from the concrete. Concrete shall not be placed on frozen ground. All laitance and other

unsound material shall be removed from hardened concrete before additional concrete is placed.

3.5.2. Ready-Mixed Concrete shall be batched, mixed and transported in accordance with ASTM C94. Plant equipment and facilities shall conform to the "Checklist for Certification of Ready Mixed Concrete Production Facilities" of the National Ready-Mixed Concrete Association.

3.5.3. Job-Mixed Concrete: For job-mixed concrete, mixer shall be rotated at a speed recommended by the manufacturer. If mixer performance tests are not made, each batch of 1 cu. yd. or less shall be mixed for at least 1 minute after all materials are in the mixer. Mixing time shall be increased 15 seconds for each additional cubic yard or fraction thereof. Entire batch shall be discharged before the mixer is recharged.

3.5.4. Conveying: Concrete shall be handled from the mixer to final deposit rapidly by methods that will prevent segregation or loss of ingredients to maintain the required quality of concrete.

3.5.5. Depositing: Concrete shall be deposited continuously; when continuous placement is not possible, construction joints shall be located as approved by the ENGINEER. Concrete shall be placed as nearly as possible to its final position to avoid rehandling or flowing. A tremie, pump or chute shall be used where a lift is between 5 and 12 feet. A pump shall be used where a lift is more than 12 feet.

3.5.5.1. Concrete shall be consolidated by vibration. Concrete shall be worked around reinforcement, embedded items and into corners to eliminate all air or stone pockets and other causes of honeycombing, pitting or planes of weakness. Internal vibrators shall be used on concrete 6 inches or more in thickness. Form or surface vibration may be used on sidewalks or concrete less than 6 inches thick, instead of internal vibration. Consolidation shall be done in accordance with the recommendations of ACI 309.

3.5.5.2. Internal vibrators shall be inserted and withdrawn approximately every 18 inches for 5 to 15 seconds. Vibrators shall have a minimum frequency of 8000 rpm, with amplitude to consolidate effectively. Vibrators shall be operated by competent workmen. Use of vibrators to transport concrete will not be allowed.

3.5.5.3. Flat chutes shall not be used. Chutes shall be deep with rounded bottoms and constructed of or lined with metal.

3.5.5.4. Concrete shall not be dumped in piles and then spread horizontally. Concrete shall be placed in uniform layers 1 to 1-1/2 feet thick and rodded or vibrated to consolidate the various layers.

3.5.5.5. Construction joints shall be limited to those shown on the plans, unless additional construction joints are approved by the ENGINEER. Surface shall be roughened to remove the soft mortar and expose the coarse aggregate. Prior to placing new concrete, hardened concrete shall be cleaned and dampened. On horizontal joints, first layer of new

concrete shall be 4 to 5 inches thick and shall be of the same mix as the concrete in the wall, except that the coarse aggregate is omitted.

3.5.5.6. Waterstops shall be provided at all construction joints of liquid-retaining structures. Joints of steel waterstops shall be butt welded; joints of non-metallic waterstops shall be made by gluing or vulcanizing.

3.6 Cold Weather Conditions

All concrete work during cold weather shall be done in accordance with ACI 306. Calcium chloride will not be permitted as an accelerator.

3.6.1. Temperature of concrete delivered at the job site shall conform to the following:

<u>Air Temperature</u>	<u>Concrete Temperature</u>
30 to 45 degrees F	55 to 80 degrees F
0 to 30 degrees F	60 to 80 degrees F
Below 0 degrees F	65 to 80 degrees F

3.6.2. Water heated to above 100 degrees F shall be combined with the aggregates before cement is added. Cement shall not be added to water to aggregates having a temperature greater than 100 degrees F.

3.6.3. When the outdoor temperature is less than 40 degrees F, the temperature of the concrete shall be maintained at not less than 50 degrees F for the required curing time. Arrangements shall be made before placement to maintain the required temperature without injury from excessive heat. Where combustion heaters are used, precautions shall be taken to prevent exposure of concrete and workmen to exhaust gases containing carbon dioxide and carbon monoxide.

3.7 Hot Weather Conditions

All concrete work during hot weather shall be done in accordance with ACI 305.

3.7.1. Temperature of concrete delivered at the job site shall not exceed 90 degrees F. Ingredients shall be cooled before mixing to prevent concrete temperature in excess of 90 degrees F.

3.7.2. Provisions shall be made for windbreaks, shading, fog spraying, sprinkling or wet cover when necessary.

3.7.3. Concrete exposed or subject to rapid evaporation due to hot weather, drying winds and sunlight may be protected by a set-retarding admixture, applied in accordance with the manufacturer's recommendations.

3.8. Curing and Protection

Immediately following placement, concrete shall be protected from premature drying, hot and cold temperatures, rain, flowing water and mechanical injury. Materials and methods of curing shall be approved by the ENGINEER. Final curing shall continue for not less than 7 days.

3.8.1. Approved methods of curing include ponding, continuous sprinkling, fog spray, wet burlap or mats, clean sand kept continuously wet, curing compound and waterproof sheet material.

3.8.2. If a waterproof sheet material is used for curing, it shall be placed over the wetted surface of fresh concrete as soon as practicable without marring the surface. Each sheet shall be overlapped and firmly secured in place to insure moisture seal.

3.8.3 If a curing compound is used, two coats shall be applied at right angles to each other. The product shall meet the requirements for curing compounds in the materials and products section of these specifications. The product shall be applied in accordance with the manufacturer's recommendations.

3.9. Removal of Forms

Forms shall be removed in such a manner as to insure complete safety of the structure and to prevent damage to concrete. Unless specifically approved otherwise by the ENGINEER, form removal shall be as specified below.

3.9.1. Wall and Column Forms: Formwork not supporting the weight of the concrete, such as wall and column forms and side forms of beams and girders, shall remain in place a minimum of 12 hours.

3.9.1.1. On vertical surfaces of liquid-retaining structures, forms shall be left in place, or the surface covered with burlap and the concrete kept wet, for at least seven days.

3.9.2. Bottom Forms for beams and girders shall not be disturbed for at least six days, and auxiliary supports shall be maintained until the concrete reaches its design strength.

3.9.3. Elevated Slab Forms shall not be disturbed for at least seven days, and slabs shall be adequately supported for at least 28 days. Auxiliary slab supports, acceptable to the ENGINEER, may be provided to support slabs at the center of the clear span.

3.10. CONCRETE FINISHES: All exposed concrete surfaces shall be true to the required lines and contours, and shall be free from stone pockets or honeycomb.

3.10.1. Patching and Repair: All imperfect or honeycomb spots and tie holes shall be chipped out to firm concrete and patched with cement grout immediately after form removal and before concrete is thoroughly dry. Fins shall be removed and repaired as necessary. Patching and repair shall be done so that the patched and repaired areas appear as a homogeneous part of the main concrete.

3.10.1.1. Edges of honeycomb spots shall be perpendicular to the surface or slightly undercut; no feathered edges will be permitted. Area to be patched, including adjacent surfaces extending at least 6 inches in all directions from the patched area, shall be dampened to prevent absorption of water from the patching mortar. If patching is not done within seven days after form removal, an approved bonding compound (as specified) shall be applied prior to patching. Defective areas shall not be patched until permission is

obtained from the ENGINEER in each specified case. Cement and sand shall be obtained from the concrete supplier so as to match adjacent work.

3.10.2. Formed Concrete: Concrete which is not formed as shown on the plans, is out of level or alignment, or is defective in appearance, shall be corrected or replaced to the ENGINEER's satisfaction at the CONTRACTOR's expense.

3.10.2.1. Concrete surfaces not exposed to view, surfaces more than 1 foot below finished grade and interior surfaces of tanks and basins more than 1 foot below the water level need not be finished except for correcting imperfect spots.

~~3.10.2.2. Unless otherwise noted, all exposed concrete surfaces, including exterior and interior of buildings and exposed basin and tank walls, shall be given a trowel and float finish using a cement base waterproof coating material such as Thoroseal Plaster Mix or equal. The material shall be mixed and applied in accordance with the manufacturer's instructions to provide a smooth uniform dense finish without holes, voids, uneven surfaces or other defects. Work shall be done to the satisfaction of the ENGINEER. Rubbing concrete with stones or similar abrasives will not be permitted.~~

3.10.2.3. Tops of walls and walk beams shall be screeded to a uniform surface and finished with a wood float.

3.10.3. Flatwork: Surfaces shall be screeded to the elevations and profiles indicated before bleedwater accumulates. Finishing shall not be started until all bleedwater has disappeared from the surface.

3.10.3.1. Float Finish: Bottoms of tanks and slabs not otherwise specified shall be power floated to a true plane so that depressions between high spots will not exceed 5/16-inch under a 10-foot straightedge. Surfaces shall be refloated immediately to a uniform texture. Hand float shall be used in areas inaccessible to power floats.

3.10.3.2. Broom or Belt Finish: Exterior slabs shall be given a float finish as specified above. A broom or burlap belt shall then be drawn at right angles to the long dimension to obtain a textured finish.

3.11 Walks

Concrete walks shall be provided where shown on the plans. Walks shall be 3.5 inches thick, unless otherwise noted on the Drawings and Details. Contraction joints shall be provided ~~every 10 linear feet~~, **as shown on the Drawings**, cut to a depth of 1-inch with a small radius-jointing tool. Expansion joints shall be provided at 30-foot intervals and at crosswalks, curbs and other structures, and shall be made with premolded bituminous joint filler. Walks shall be brought to the proper grade and cross section with a float, and finished with a broom at right angles to the direction of traffic. All edges shall be tooled with a small radius-edging tool.

3.12. Additional Foundation Concrete

If required by foundation conditions, additional concrete shall be placed under footings of structures, as directed by the ENGINEER. This additional concrete shall be Class C. The

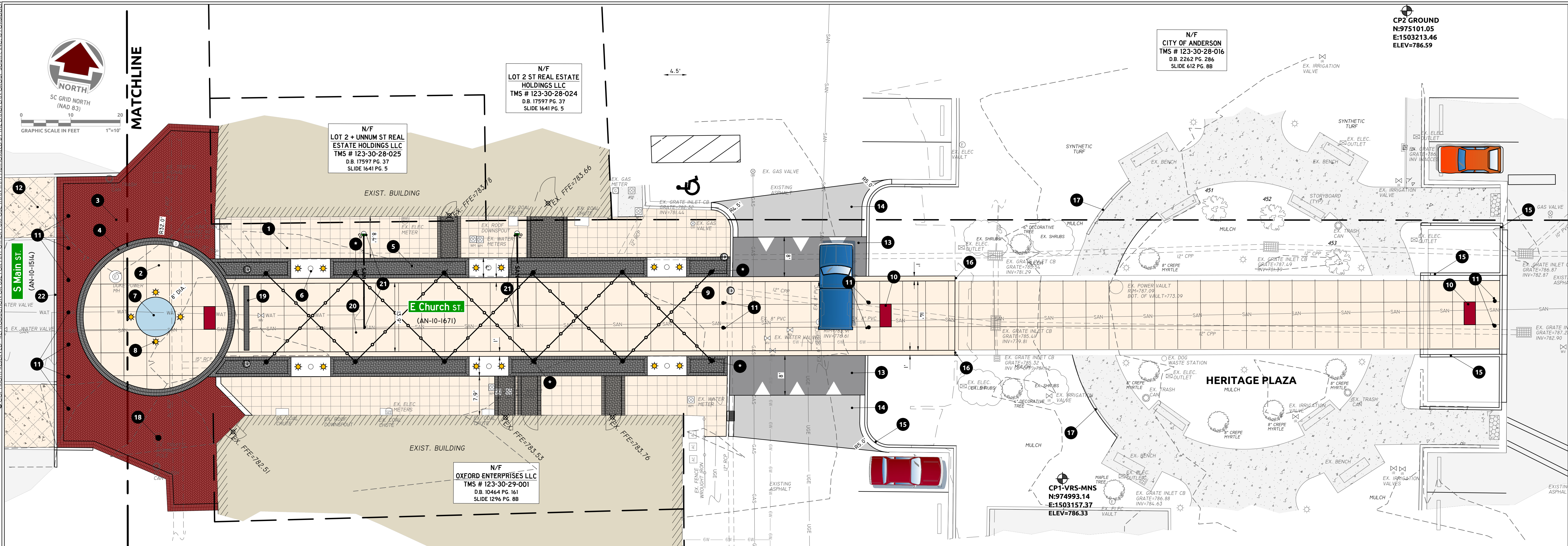
joint between the Class C concrete and foundation concrete shall be coated with a bonding compound.

3.13. Grout

Cement-sand grout shall be pumped into existing pipes being abandoned in place shown on the plans. Grout shall consist of 1 part Portland cement and 2½ parts sand by weight. Sand shall be a maximum diameter of 1/8-inch.

(End of Section 03300)

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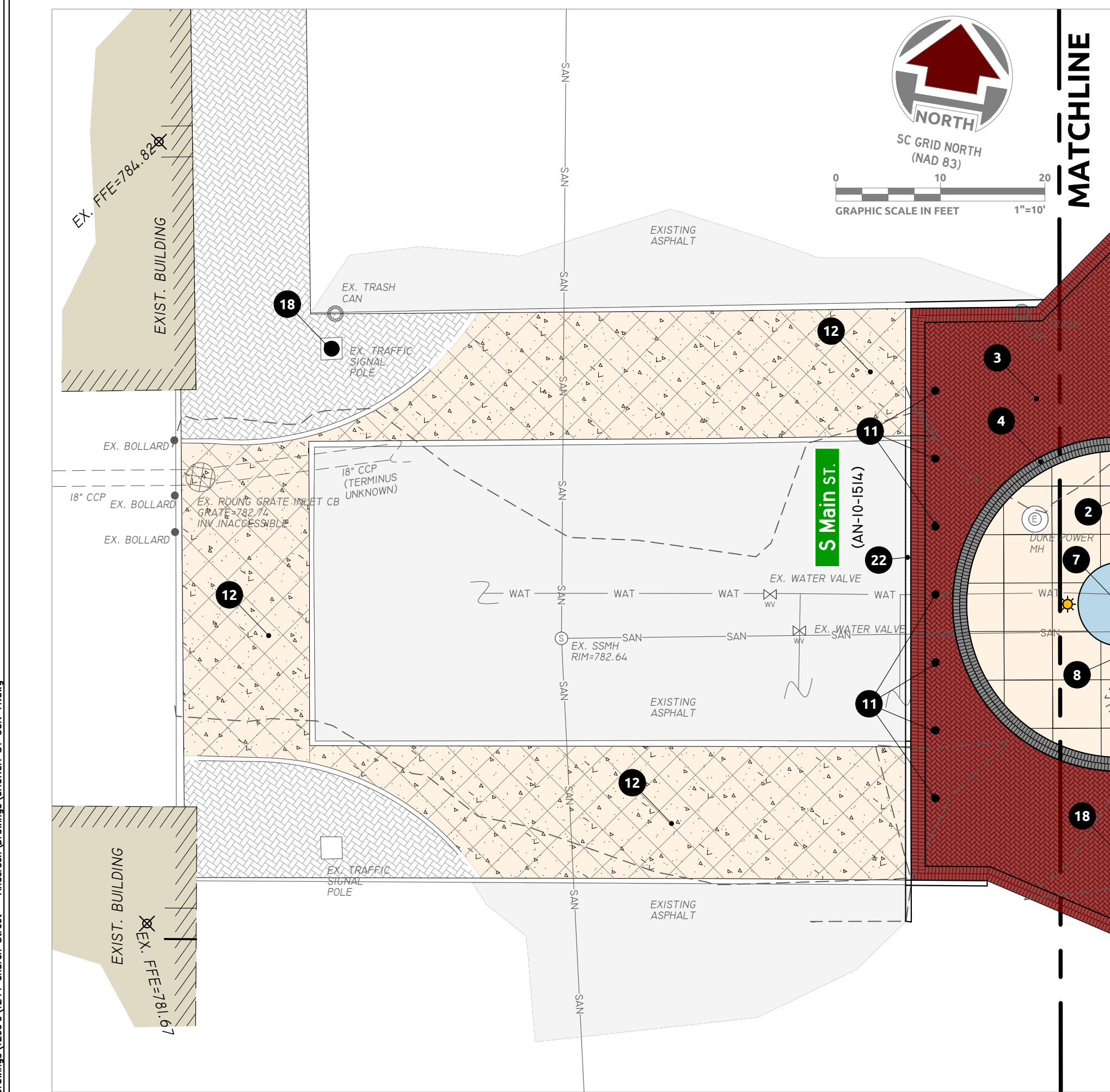


SITE DATA TABLE

OWNER:	CITY OF ANDERSON ANDREW STRICKLAND - ASSISTANT CITY MANAGER 401 MAIN ST. ANDERSON, SC 29624 ASTRICKLAND@CITYOFANDERSONSC.COM
FLOOD ZONE:	IN ACCORDANCE WITH FEMA FIRM MAP# 45007C0244E EFFECTIVE 09/29/2011 THIS PROPERTY DOES NOT FALL WITHIN THE LIMITS OF THE 100 YEAR FLOOD PLAIN. (ZONE X)

CODED SITE NOTES

- NOTED ON PLAN AS #
- NEW SCORED CONCRETE PAVEMENT. 24"x24" GRID PATTERN.
 - SCORED CONCRETE PAVEMENT. 4'-7"x4'-7" GRID PATTERN.
 - BRICK PAVEMENT FIELD WITH DOUBLE ROW BRICK BORDER. RE-USE EXISTING BRICK PAVERS INSTALLED IN HERRINGBONE PATTERN TO MATCH EXISTING.
 - DOUBLE ROW BRICK PAVEMENT BORDER. 4"x8"x2-1/4" THICK WIRECUT BRICK PAVEMENT WITH SPACING LUG BY ENDICOTT CLAY PRODUCTS COMPANY, FAIRBURY, NEBRASKA, OR EQUAL. DARK BRICK BORDER PAVERS SHALL BE NO. 46 MANGANESE IRONSPOT.
 - SINGLE ROW BRICK PAVEMENT BORDER SHALL BE 4"x8"x2-1/4" THICK WIRECUT BRICK PAVEMENT WITH SPACING LUG BY ENDICOTT CLAY PRODUCTS COMPANY, FAIRBURY, NEBRASKA, OR EQUAL. DARK BRICK BORDER PAVERS SHALL BE NO. 46 MANGANESE IRONSPOT. INTERIOR FIELD BRICK PAVERS SHALL BE 4"x8"x2-1/4" THICK WIRE CUT BRICK PAVEMENT WITH SPACING LUG BY ENDICOTT CLAY PRODUCTS COMPANY, NO. 46 MANGANESE IRONSPOT.
 - URBAN ACCESSORIES. JAMISON EKO TREE GRATE. 4'x8' WITH LIGHTPORT OPENINGS FOR ENERGY & CITY OF ANDERSON. TRANSFORMER TO BE LOCATED IN HERITAGE PLAZA LANDSCAPE BED. COORDINATE EXACT LOCATION WITH OWNER.
 - CONCRETE SCULPTURE BASE.
 - UPLIGHTING FOR SCULPTURE AND TREE GRATES ARE TO BE WAC LIGHTING. GRAND INGROUND, 12V LANDSCAPE RECESSED, MODEL 5033-9-15VAC, 2700K-85, BBR. **ON SAME TRANSFORMER AS LISTED BELOW IN NOTE #9**
 - DECORATIVE POSTS MATCH DECORATIVE POSTS AT CATER'S LAKE PARK, ANDERSON, SC.) WITH CATENARY (STRING) LIGHTING. DUAL OUTLET RECEPTACLES TO BE AT BASE OF 4 OF THE 12 POSTS AS SHOWN ON THE DRAWING WITH * SYMBOL. CATENARY LIGHTING TO BE STERLING LIGHTING, CAFE LIGHT KIT, S14 12V LED BULB, 24" SPACING BETWEEN LIGHTS. STRING LIGHTS TO BE HUNG ON CABLES RUNNING POST TO POST. TRANSFORMER TO BE ~~4'x8'x2-1/4" THICK WIRECUT BRICK PAVEMENT WITH SPACING LUG BY ENDICOTT CLAY PRODUCTS COMPANY, FAIRBURY, NEBRASKA, OR EQUAL. DARK BRICK BORDER PAVERS SHALL BE NO. 46 MANGANESE IRONSPOT. INTERIOR FIELD BRICK PAVERS SHALL BE 4"x8"x2-1/4" THICK WIRE CUT BRICK PAVEMENT WITH SPACING LUG BY ENDICOTT CLAY PRODUCTS COMPANY, NO. 46 MANGANESE IRONSPOT.~~ **900W PRO, STAINLESS STEEL WITH PHOTOCELL, OR APPROVED EQUAL CONTRACTOR TO PROVIDE SHOP DRAWINGS. COORDINATE ELECTRIC SERVICE CONNECTIONS WITH DUKE ENERGY & CITY OF ANDERSON.**
 - BRONZE PLAQUE (4'-7"x2'-3 1/2") FLUSH WITH PAVEMENT. EXACT VERBIAGE TO BE DETERMINED.
 - DECORATIVE BOLLARD TO BE ARCHITECTURAL IRON COMPANY, HAMPTON 'A' TO MATCH EXISTING BOLLARD AT NORTH MAIN COMMONS, ANDERSON SC.
 - SCORED CONCRETE CROSSWALK PAVEMENT.
 - ASPHALT MILLING AND OVERLAY.
 - NEW CURB AND GUTTER. TIE INTO EXISTING.
 - NEW CONCRETE TO TIE INTO EXISTING 12" CONCRETE BORDERS.
 - 6" WIDE CONCRETE BORDER TO TIE TO EXISTING 6" WIDE CONCRETE BORDER AT EACH END. MATCH EXISTING ELEVATIONS.
 - NEW PELCO PEDESTRIAN CROSSING SIGNALIZATION. POLE TO BE 10' HT, 4", ALUMINUM, OCTAGONAL BASE, ACORN TYPE POLE CAP, POWDERCOATED BLACK. PELCOINC.COM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PEDESTRIAN HEAD, PUSH BUTTON AND SIGN (9"x15") TO BE INCLUDED. 13"x24" JUNCTION BOX AT BASE WITH REQUIRED CONDUIT.
 - TRENCH GRATE TO BE URBAN ACCESSORIES, JAMISON, 12" WIDTH, RAW. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - SITE FURNITURE TABLES AND CHAIRS TO BE LANDSCAPE FORMS, PARC CENTRE 30" ROUND, ARCHITECTURAL SERIES OBSIDIAN, SURFACE MOUNT WITH PARC CENTRE CHAIR, ARCHITECTURAL SERIES OBSIDIAN, OR APPROVED EQUAL. (10 TABLES AND 40 CHAIRS)
 - CONTRACTOR TO CONNECT TO EXISTING SAN. SEWER MAIN IN STREET AND STUB 6" PVC SANITARY SEWER SERVICE LINE TO WITHIN 5' OF BLDG AT LOCATIONS TO BE DETERMINED BY OWNER. COORDINATE WITH OWNER AS REQ'D. SET NEW CLEANOUT (W/ BRASS CAP) WITHIN 5' OF BLDG AND SET FLUSH WITH FINISHED GRADE AS REQ'D.
 - FLUSH GRANITE CURB TO MATCH EXISTING.



THE LANDPLAN GROUP SOUTH
Landscape Architecture | Engineering | Planning
1206 SCOTT STREET
COLUMBIA, SC 29201
803.256.0562
WWW.LANDPLANSOUTH.COM

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THE LANDPLAN GROUP SOUTH, INC.

REGISTERED PROFESSIONAL ENGINEER
No. 200979
1/19/2026

CHURCH STREET
PEDESTRIAN PLAZA
IN THE CITY OF ANDERSON, SC

SITE PLAN

JOB NO: 1244
DRAWN: WS
DESIGNED: RM
APPROVED: RM
DATE: 07/9/2026
SCALE: SEE GRAPHIC SCALE

C200