

**INDEPENDENCE BOTANIC GARDEN  
PHASE 1 IMPROVEMENTS  
BATON ROUGE, LA**

***ADDENDUM # 1***

The following provisions replace, revise, and/or add to the drawings and specifications titled "Independence Botanic Garden – Phase 1 Improvements". The contractor shall acknowledge said provisions by acknowledging receipt of this addendum on page BF-1 of the Construction Proposal.

This Addendum modifies the BREC Construction Package for Independence Botanic Garden – Phase 1 Improvements as follows:

- Part 1 includes plan sheets and specification sections that are to be replaced with the revised sheets as listed below.

***Part – 1 Drawings and Specifications:***

- Plan sheets: T-2, C1.2, C1.3, C2.1, C2.2, C3.2, C3.3, C3.4, C3.5, C3.6, GR1.1, PL1.1 and P1.1 **have been revised. Discard original sheets and replace the sheets listed above – attached.**
  - Revisions are indicated by revision markers on drawings.
- Specifications:
  - Please replace the following specification sections with the attached files:
    - Title Page / Table of Contents
    - Bid Form
    - Section 012300 – Alternates
    - Section 033100 – Concrete Stain
    - Section 321400 – Unit Paving
    - Section 334600 – Subdrainage and Storm Pipe

# CONTRACT DOCUMENTS

for

**1681 - INDEPENDENCE PARK BOTANICAL GARDEN PHASE 1**



at

**7500 Independence Boulevard  
Baton Rouge, LA 70806**



**RECREATION AND PARK COMMISSION  
FOR THE PARISH OF EAST BATON ROUGE**

**Superintendent**

Carolyn McKnight

**Interim Assistant Superintendent  
Planning & Construction**

O. Reed Richard

**2016 Commission Members**

Verge S. Ausberry, Jr.

Lloyd H. Benson II

Sandra Davis

Shelton C. Dixon

Davis Rhorer

Larry Selders

David Tatman

Mike Walker

Rossie Washington, Jr.

<b>BID DUE DATE</b>	
<b>TIME &amp; DATE:</b>	2:00 p.m. Tuesday, September 13, 2016
<b>SUBMIT ELECTRONIC BIDS:</b>	<a href="http://www.bidexpress.com">www.bidexpress.com</a>
<b>SUBMIT PAPER BIDS:</b>	BREC Finance Dept, BREC Administration Bldg., 6201 Florida Blvd, Baton Rouge, LA 70806
<b>OPENING:</b>	2 <sup>nd</sup> Floor Conference Room 2034

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**LOUISIANA UNIFORM PUBLIC WORK BID FORM**

<p><b>TO:</b> <u>Recreation and Park Commission for</u>  <u>the Parish of East Baton Rouge (BREC)</u>  <u>Finance Department</u>  <u>6201 Florida Boulevard</u>  <u>Baton Rouge, Louisiana 70806</u></p>	<p><b>BID FOR:</b> <u>1649 - Independence Park</u>  <u>Botanical Garden Phase 1</u>  <u>7500 Independence Boulevard</u>  <u>Baton Rouge, LA 70806</u></p>
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The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by:

BREC Planning and Engineering Department and dated: August, 2016

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) \_\_\_\_\_ .

**TOTAL BASE BID:** For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of:

\_\_\_\_\_ Dollars \$ \_\_\_\_\_

**ALTERNATES:** For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

**Alternate No. 1 - ADD -** furnish materials and perform all work to install all landscaping plant materials including bed preparation for the lump sum of:

\_\_\_\_\_ Dollars \$ \_\_\_\_\_

**Alternate No. 2 - ADD -** furnish materials and perform all work to install the irrigation system for the lump sum of:

\_\_\_\_\_ Dollars \$ \_\_\_\_\_

**Alternate No. 3 - ADD -** furnish materials and perform all work to install Decomposed Granite in lieu of crushed limestone (base bid) for garden paths for the lump sum of:

\_\_\_\_\_ Dollars \$ \_\_\_\_\_

**NAME OF BIDDER:** \_\_\_\_\_

**ADDRESS OF BIDDER:** \_\_\_\_\_

**LOUISIANA CONTRACTOR'S LICENSE NUMBER:** \_\_\_\_\_

**NAME OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**TITLE OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

\* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

\*\* If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(B)5.

**BID SECURITY** in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid.

**BID BOND**  
FOR

Date: \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS:

That \_\_\_\_\_ of \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto the **Recreation and Park Commission for the Parish of East Baton Rouge** (Obligee), in the full and just sum of five (5%) percent of the total amount of this bid, including all alternates, lawful money of the United States, for payment of which sum, well and truly be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

Surety represents that it is listed on the current U. S. Department of the Treasury Financial Management Service list of approved bonding companies as approved for an amount equal to or greater that the amount for which it obligates itself in this instrument or that it is a Louisiana domiciled insurance company with at least an A - rating in the latest printing of the A. M. Best's Key Rating Guide. If surety qualifies by virtue of its Best's listing, the Bond amount may not exceed ten percent of policyholders' surplus as shown in the latest A. M. Best's Key Rating Guide.

Surety further represents that it is licensed to do business in the State of Louisiana and that this Bond is signed by surety's agent or attorney-in-fact. This Bid Bond is accompanied by appropriate power of attorney.

THE CONDITION OF THIS OBLIGATION IS SUCH that, whereas said Principal is herewith submitting its proposal to the Obligee on a Contract for:

**INDEPENDENCE PARK BOTANICAL GARDEN PHASE 1**

NOW, THEREFORE, if the said Contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the Contract in writing and give a good and sufficient bond to secure the performance of the terms and conditions of the Contract with surety acceptable to the Obligee, then this obligation shall be void; otherwise this obligation shall become due and payable.

\_\_\_\_\_  
PRINCIPAL (BIDDER)

\_\_\_\_\_  
SURETY

BY: \_\_\_\_\_  
AUTHORIZED OFFICER-OWNER-PARTNER

BY: \_\_\_\_\_  
AGENT OR ATTORNEY-IN-FACT (SEAL)

## SECTION 012300 - ALTERNATES

### PART 1 - GENERAL

#### 0.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### 0.2 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

#### 0.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

#### 0.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

### PART 2 - PRODUCTS (Not Used)

### PART 3 - EXECUTION

#### 0.1 SCHEDULE OF ALTERNATES

Alternate No. 1: ADD - furnish materials and perform all work to install all landscaping plant materials including bed preparation.

1681 - INDEPENDENCE PARK BOTANICAL GARDEN PHASE 1

Alternate No. 2: ADD - furnish materials and perform all work to install the irrigation system.

Alternate No. 3: ADD - furnish materials and perform all work to install Decomposed Granite in lieu of crushed limestone (base bid) for garden paths.

**END OF SECTION 012300**

**SECTION 033100 – CONCRETE STAIN**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Division 03, Section 033053, “Miscellaneous Cast-in-Place Concrete”.
- C. Division 32, Section 321313, “Concrete Paving”.

**1.2 SECTION INCLUDES**

- A. Exterior concrete stain for specific paving areas to obtain an architectural white concrete match that of the existing white concrete of the existing Main Library Plaza.

**2.4 SUBMITTALS**

- A. Product Data: Submit manufacturer's data on manufactured products.
- B. Perform work on this section in accordance with manufacturer’s recommendation.

**PART 2 - PRODUCTS**

**2.1 CONCRETE STRENGTH**

- A. Concrete used for sidewalks shall be 4,000 psi 28 day concrete. Thickness, mesh, reinforcement and finish specified elsewhere in this section.

**2.2 CONCRETE STAIN**

- A. Concrete stain shall be H&C Concrete Stain solid color water based, “Extra White”, Part #20.001214/163-1753 or #20.001215/163-1746 or approved equal.
- B. Characteristics:
  - 1. Vehicle type: 100% acrylic,
  - 2. VOC: 224 g/L; 1.87 lb/gal
  - 3. Pigment sheen: Low Lustre <35
  - 4. Volumes solids: 30 +/- 2%
  - 5. Weight solids: 43 +/- 2%
  - 6. Weight per gallon: 10.0 lbs.

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- C. A slip-resistant additive is required. The slip-resistant additive shall be H&C Concrete, "SHARKGRIP", product #50.15500 or approved equal. Apply per manufacturer's recommendations.

### **PART 3 - EXECUTION**

#### **3.1 SURFACE PREPARATION**

- A. Newly poured concrete must be at least 28 days old.
- B. All concrete must be porous, clean, dry and free of grease, oils or any other contaminants.
- C. All horizontal concrete surfaces must be etched with muriatic acid or etching solution. Proper etching should feel like 120-grit sand paper, if not a second etching is required.
- D. Do not apply stain until all surfaces are porous.
- E. Allow all surfaces to dry 24 hour before applying stain.
- F. Prepared concrete must have a pH level between 6 and 10.

#### **3.2 APPLICATION**

- A. Coverage: porous concrete 150-250 s.f./gal.
- B. Drying time: Dependent on temperature and humidity. At 77 degrees Fahrenheit, 50% relative humidity –to the touch, 30 minutes; light traffic and recoat, 2 hours; heavy traffic, 72-96 hours; full curing should be reached in 7-14 days.
- C. Apply stain per manufacturer's recommendation.
- D. Allow 2 hours dry time between coats.
- E. Allow 72-96 hours drying conditions before using the surface for heavy traffic.

**END OF SECTION 033100**

**SECTION 321400 - UNIT PAVING**

**PART 1 – GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Concrete unit pavers set in sand setting beds over a crushed limestone base.
- B. Related Sections include the following:
  - 1. Division 31 Section "Earth Moving" for excavation and compacted subgrade.
  - 2. Division 32 Section "Concrete Paving" for cast-in-place concrete curbs as edge restraint for unit pavers.

1.3 SUBMITTALS

- A. Product Data: For materials other than water and aggregates.
- B. Product Data: For the following:
  - 3. Pavers.
- C. Sieve Analyses: For aggregate setting-bed materials, according to ASTM C 136.
- D. Samples for Verification: For the following:
  - 1. Each type of unit paver indicated as well as 4 colors as specified.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of unit paver, and setting material from one source with resources to provide materials and products of consistent quality in appearance and physical properties.

**PART 2 – PRODUCTS**

2.1 Manufacturer

- A. Concrete Pavers: Solid interlocking paving units complying with ASTM C 936 and resistant to freezing and thawing when tested according to ASTM C 67, made from normal-weight aggregates.
  - 1. Basis of Design: This specification is based on using paver edge restraints manufactured by Pave Tech Co., Inc., P.O. Box 576 Prior Lake, MN 55372, [www.pavetech.com](http://www.pavetech.com)
  - 2. Substitutions: This specification is not to be considered a closed or proprietary specification. The product mentioned as the Basis of Design in this specification is used to indicate the quality standard of the product desired and shall not restrict bidders to the basis of design product. However, bidders offering equal products as substitutions shall submit product information and appropriate samples of

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matching specified product's construction, aesthetic, construction and finish for Prior Approval per the Instructions to Bidders. Approved products will be based on the Architect's sole discretion.

### 3. Paver Types:

Type 1 – Pavestone Verona Stone. See Construction Documents for Location:

- a. Thickness: 3-1/8 inches.
- b. Face size and Shape: 3 inches by 18 inches
- c. Color: "A" on plans: Antique Pewter.

Type 2 – Pavestone Symmetry SQ. 6 cm. See Construction Documents for Location.

- a. Thickness: 2-3/8 inches
- b. Face size and Shape: 4 inches by 8 inches.
- c. Color: "A", "B", "C" on plans: Antique Pewter, Buff/Charcoal, and Silver Shell Blend.

4. Basis of Design: This specification is based on using unit pavers manufactured by Pavestone Co., Inc., 2909 Krentel Road, Lacombe, LA 70445. Website: [www.pavestone.com](http://www.pavestone.com).
5. Substitutions: This specification is not to be considered a closed or proprietary specification. The product mentioned as the Basis of Design in this specification is used to indicate the quality standard of the product desired and shall not restrict bidders to the basis of design product. However, bidders offering equal products as substitutions shall submit product information and appropriate samples of matching specified product's construction, aesthetic, construction and finish for Prior Approval per the Instructions to Bidders. Approved products will be based on the Architect's sole discretion.

## 2.2 AGGREGATE SETTING-BED MATERIALS

- A. Sand for Leveling Course: Sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C 33 for fine aggregate.
- B. Sand for Joints: Fine, sharp, washed, natural sand or crushed stone with 100 percent passing No. 16 sieve and no more than 10 percent passing No. 200 sieve.
- C. Aggregate base: #610 limestone
- D. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications; made from polyolefins or polyesters, with elongation less than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
  1. Survivability: Class 2; AASHTO M 288.
  2. Apparent Opening Size: No. 60 sieve, maximum; ASTM D 4751.
  3. Permittivity: 0.02 per second, minimum; ASTM D 4491.
  4. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

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- A. Examine areas indicated to receive paving, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
  - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Clean concrete substrates to remove dirt, dust, debris, and loose particles.

### 3.3 INSTALLATION, GENERAL

- A. Do not use unit pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.
- B. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.
- C. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.
  - 1. For concrete pavers, a block splitter may be used.
- D. Joint Pattern: As indicated.
- E. Tolerances: Do not exceed 1/16-inch unit-to-unit offset from flush (lippage) nor 1/8 inch in 24 inches and 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving.
- F. Expansion and Control Joints: Provide joint filler at locations and of widths indicated. Install joint filler before setting pavers. Make top of joint filler flush with top of pavers.

### 3.4 AGGREGATE SETTING-BED APPLICATIONS

- A. Place geotextile over prepared aggregate base overlapping ends and edges at least 12 inches.
- B. Place sand leveling course and screed to a thickness of 1-1/2 inches, taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted.
- C. Set pavers with a minimum joint width of 1/16 inch and a maximum of 1/8 inch, being careful not to disturb leveling base. If pavers have spacer bars, place pavers hand tight against spacer bars. Use string lines to keep straight lines. Fill gaps between units that exceed 3/8 inch with pieces cut to fit from full-size unit pavers.
- D. Spread dry sand and fill joints immediately after vibrating pavers into leveling course. Vibrate pavers and add sand until joints are completely filled, then remove excess sand. Leave a slight surplus of sand on the surface for joint filling.
- E. Do not allow traffic on installed pavers until sand has been vibrated into joints.

### 3.5 REPAIR

- A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.

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**END OF SECTION 321400**

**SECTION 334600 – SUBDRAINAGE AND STORM PIPE**

**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 DEFINITIONS

- A. HDPE: High-density polyethylene plastic.
- B. PVC: Polyvinyl chloride plastic.

1.3 SUBMITTALS

- A. Product Data: For the following:
  - 1. Perforated-flat pipe and fittings.
  - 2. Solid-wall pipe and fittings.
  - 3. Catch basins
  - 4. Geotextile Filter Fabric
- B. Approval of waterproofing manufacturer's service agent for use of drainage panels against and for waterproofing membrane protection.

**PART 2 - PRODUCTS**

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
  - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PERFORATED-WALL PIPES AND FITTINGS

- A. Perforated HDPE or PE Pipe and Fittings:
  - 1. **NPS 6** and Smaller: ASTM F 405 or AASHTO M 252, Type CP; corrugated, for coupled joints.

## 1681 - INDEPENDENCE PARK BOTANICAL GARDEN PHASE 1

2. **NPS 8** and Larger: ASTM F 667; AASHTO M 252, Type CP; or AASHTO M 294, Type CP; corrugated; for coupled joints.
3. Couplings: Manufacturer's standard, band type.

### 2.3 SOLID-WALL PIPES AND FITTINGS

- A. PVC Cellular-Core Pipe and Fittings: ASTM F 891, Sewer and Drain Series, PS 50 minimum stiffness pipe with ASTM D 3034, SDR 35, socket-type fittings for solvent cemented joints.

### 2.4 PIPE COUPLINGS

- A. Comply with ASTM C 1173, elastomeric, sleeve-type, reducing or transition coupling, for joining underground non-pressure piping. Include ends of same sizes as piping to be joined, and corrosion-resistant-metal tension band and tightening mechanism on each end.

### 2.5 CATCH BASINS

- A. Concrete Collar: Refer to Division 3 Section "Miscellaneous Cast-In-Place Concrete".
- B. Catch Basins: Nyloplast or PRIOR APPROVED EQUAL with ductile iron grates as specified on drawings.
  1. Size: as indicated.

### 2.6 GEOTEXTILE FILTER FABRICS

- A. Description: Fabric of PP or polyester fibers or combination of both, with flow rate range from **110 to 330 gpm/sq. ft.** when tested according to ASTM D 4491.
  1. Structure Type: **Nonwoven, needle-punched continuous filament**
  2. Style(s): **Flat and sock.**

### 2.7 FLAT PIPE

- A. NDS 12" Advanedge oblong corrugated pipe OR PRIOR APPROVED EQUAL.
  1. Outside dimensions shall be a minimum of 1.5" thick by 13" wide.
  2. Flat Pipe shall have internal bracing to prevent crushing under typical loading.
  3. Flat Pipe shall be installed with an external geotextile wrap.
  4. Flat pipe shall be installed using approved fittings, including couplers, wyes, tees, end caps, and round pipe adapters.
  5. The flat pipe should be anchored every 10-15 feet to prevent movement during installation.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine surfaces and areas for suitable conditions where drainage pipe systems are to be installed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

## 1681 - INDEPENDENCE PARK BOTANICAL GARDEN PHASE 1

### 3.2 EARTHWORK

- A. Excavating, trenching, and backfilling are specified in Division 31 Section "Earth Moving."

### 3.3 PIPING APPLICATIONS

- A. Underground Storm Piping:
  1. PE pipe and fittings, couplings, and coupled joints.
  2. PVC pipe and fittings, joints, couplings.
  3. NDS 12" Advanedge oblong corrugated pipe OR PRIOR APPROVED EQUAL

### 3.4 PIPING INSTALLATION

- A. Install piping beginning at low points of system, true to grades and alignment indicated, with unbroken continuity of invert. Bed piping with full bearing in filtering material. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions and other requirements indicated.
  1. Gravel free trench drain under crushed stone paths: install piping pitched down in direction of flow, at a minimum slope of 0.5 percent.
  2. Excavate recesses in trench bottom for bell ends of pipe. Lay pipe with bells facing upslope and with spigot end entered fully into adjacent bell.
- B. Use increasers, reducers, and couplings made for different sizes or materials of pipes and fittings being connected. Reduction of pipe size in direction of flow is prohibited.
- C. Install PE piping according to ASTM D 2321.
- D. Install PVC piping according to ASTM D 2321.
- E. Install Flat piping per manufacturer's specifications.

### 3.5 PIPE JOINT CONSTRUCTION

- A. Join PE pipe, tubing, and fittings with couplings for soil-tight joints according to AASHTO's "Standard Specifications for Highway Bridges," Division II, Section 26.4.2.4, "Joint Properties."
- B. Join perforated, PE pipe and fittings with couplings for soil-tight joints according to AASHTO's "Standard Specifications for Highway Bridges," Division II, Section 26.4.2.4, "Joint Properties"; or according to ASTM D 2321.
- C. Join PVC pipe and fittings according to ASTM D 3034 with socket-type fittings for solvent cemented joints.

### 3.6 CONNECTIONS

- A. Drawings indicate general arrangement of piping, fittings, and specialties.

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### 3.7 FIELD QUALITY CONTROL

- A. Testing: After installing drainage course to top of piping, test drain piping with water to ensure free flow before backfilling. Remove obstructions, replace damaged components, and repeat test until results are satisfactory.

### 3.8 CLEANING

- A. Clear interior of installed piping and structures of dirt and other superfluous material as work progresses. Maintain swab or drag in piping and pull past each joint as it is completed. Place plugs in ends of uncompleted pipe at end of each day or when work stops.

**END OF SECTION 334600**

# INDEPENDENCE BOTANIC GARDEN PHASE 1 IMPROVEMENTS

7500 INDEPENDENCE BOULEVARD  
BATON ROUGE, LOUISIANA 70806

AUGUST, 2016

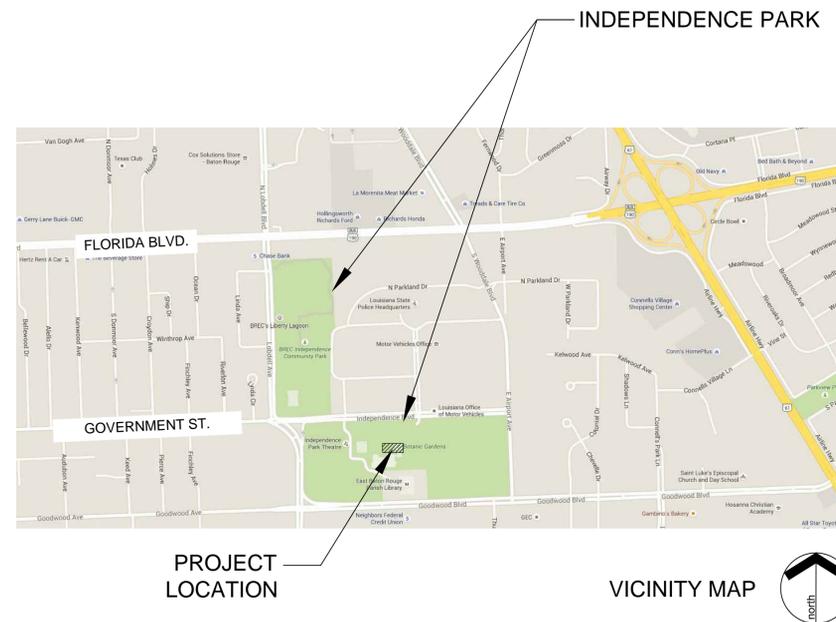
RECREATION AND PARK COMMISSION  
FOR THE PARISH EAST BATON ROUGE

Planning and Engineering Department  
6201 Florida Blvd.  
Baton Rouge, LA 70806



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- C-3.4 SECTIONS & DETAILS
- C-3.5 SECTIONS & DETAILS
- C-3.6 SECTIONS & DETAILS - FOUNTAIN SECTIONS AND DETAILS
- GR-1.1 GRADING AND DRAINAGE PLAN
- PL-1.1 UTILITY SITE PLAN
- E-1.1 ELECTRICAL PLAN
- E-1.2 ELECTRICAL DETAILS
- P-1.1 PLANTING PLAN
- P-1.2 PLANTING DETAILS, LANDSCAPE NOTES & PLANT MATERIALS LIST
- I-1.1 IRRIGATION PLAN
- I-1.2 IRRIGATION DETAILS



**GENERAL NOTES**

**BREC** – BREC ARCHITECT/ENGINEER RESPONSIBLE FOR CONTRACT ADMINISTRATION FOR BREC INCLUDING SUPERVISION OF THE WORK.

**PROJECT DESCRIPTION:**

The project is a first phase of a master plan for improvements to the Botanical Gardens at Independence Community Park. The major components of the project are a walkway system connecting the new Goodwood Library to the Gardens, a formal parterre garden, landscaping, irrigation, site furnishings, lighting, unit paving, a fountain, and garden structures.

**PROJECT REQUIREMENTS:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM ANY GOVERNING BODIES AND AGENCIES NEEDED FOR CONSTRUCTION.

**UTILITIES & PIPELINES:**

ALL UTILITIES WILL REQUIRE LOCATION BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST CONTACT LOUISIANA ONE CALL (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UTILITIES FIELD LOCATED.

IF ANY UNFORESEEN UTILITY LINE, ETC., IS OBSTRUCTING SCOPE OF WORK, NOTIFY ENGINEER/ARCHITECT IMMEDIATELY.

**THE UTILITY CONTACTS ARE AS FOLLOWS:**

BREC	PLANNING & ENGINEERING 3140 N. SHERWOOD BLVD BATON ROUGE, LA (225) 273-6405	UTILITIES: LA ONE CALL CALL BEFORE YOU DIG (800)272-3020
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WATER:	BATON ROUGE WATER CO 8755 GOODWOOD BLVD BATON ROUGE, LA (225) 925-2011	ELECTRIC: ENTERGY
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**PROJECT CONTROL:**

ALL SPECIFIED CONTROL SAFETY AND SECURITY MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.

ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF BREC IN A TIMELY MANNER TO NOT ADVERSELY AFFECT PROGRESS OF WORK.

STAGING FOR MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH BREC. CONTRACTOR SHALL BE REQUIRED TO KEEP STREETS AND DRIVES FREE OF MUD AND DIRT AT ALL TIMES.

ALL CONSTRUCTION TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.

CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES ON THE PROJECT.

CONTRACTOR SHALL BE FAMILIAR WITH ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH WORK.

CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION AND DEMOLITION DEBRIS FROM SITE IN ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL REGULATIONS.

CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT TREES, PLANTING AND SOD. CONTRACTOR SHALL REPLACE ANY DAMAGED TREES, PLANTING, AND SOD, IN KIND, TO THE SPECIFICATIONS OF THE INTERNATIONAL ASSOCIATION OF ARBORICULTURE AS TO SPECIES AND SIZE.

FINAL STAKING OF ALL PROPOSED WALKS AND PAVING AREAS MUST BE APPROVED BY ENGINEER/ARCHITECT PRIOR TO POURING CONCRETE. LAYOUT OF FORMWORK SHOULD BE DONE IN A MANNER THAT RESULTS IN SMOOTH TANGENTS AND RADII AS INDICATED ON THE LAYOUT PLAN. ERRATIC FORMWORK WILL BE REJECTED.

LAYOUT, GEOMETRY & DIMENSIONS OF ALL PROPOSED PAVING MAY REQUIRE ADJUSTMENTS IN THE FIELD.

CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL EXISTING GRADES DAMAGED DURING CONSTRUCTION, IN ORDER TO PROVIDE POSITIVE DRAINAGE.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

**PROJECT SEQUENCE:**

THESE DOCUMENTS DO NOT DESCRIBE THE MEANS, METHODS AND PROCEDURES FOR ACCOMPLISHING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR SETTING THESE GUIDELINES TO SUCCESSFULLY COMPLETE THE PROJECT IN THE TIME PROVIDED. BASIC ELEMENTS OF THE PROJECT INVOLVE SEQUENCING IN ORDER FOR THE CONSTRUCTION TO PROCEED IN AN ORDERLY MANNER.

**PROJECT COMPONENTS:**

EARTHWORK – EXCAVATION AND EMBANKMENT FOR PARK FACILITIES, OPEN SPACES, WALKS, AND DRAINAGE AS SHOWN ON THE PLANS AND SECTIONS, AND PER SPECIFICATIONS.

GRADE ENTIRE SITE TO FINISH GRADE PRIOR TO SCHEDULING LANDSCAPING & TREE INSTALLATION. BACKFILL AGAINST NEW SIDEWALK EDGES, TYPICALLY HOLDING BACKFILL APPROXIMATELY 1”-2” BELOW TOP OF SIDEWALK. FILL SHOULD BE GRADED TO ELIMINATE LARGE CLOUDS OF DIRT.

SEEDING – HYDRO-MULCH WITH SEED IN ALL AREAS DISTURBED BY CONSTRUCTION AND ALL NEWLY GRADED AREAS NOT INDICATED TO RECEIVE SOD IN ACCORDANCE WITH SEED SPECIFICATIONS.

SODDING – SOD ALL AREAS INDICATED ON THE PLANS AFTER FINISH GRADING IS COMPLETED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS – SOD SHALL BE CERTIFIED "CELEBRATION" BERMUDA SOD.

**CONCRETE & PAVING:**

ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE SHALL BE BROOM FINISHED PERPENDICULAR TO DIRECTION OF WALK.

IN AREAS TO RECEIVE NEW CONCRETE PAVING AND SIDEWALKS, THE CONTRACTOR SHALL RESET ALL EXISTING JUNCTION BOXES, MANHOLES, CLEANOUTS, AND VALVE BOX COVERS TO FINISH GRADE WHERE NECESSARY.

ALL SIDEWALKS SHALL MAINTAIN A MINIMUM OF 1% AND MAXIMUM OF 2% CROSS SLOPE. ALL SIDEWALK CROSS SLOPES MUST SLOPE TOWARDS EXISTING AND OR NEW CATCH BASINS AND OR TOWARDS THE SIDE THAT IS NEARER A LOWER CONTOUR. SIDEWALKS CROSS SLOPED INTO CONTOUR'S ON THE HIGH SIDE CAUSING WATER TO BE TRAPPED WILL NOT BE ACCEPTED.

CONTRACTOR SHALL MAKE SMOOTH, FLUSH TRANSITION BETWEEN ALL EXISTING AND PROPOSED PAVEMENTS.

CONTRACTOR SHALL PROVIDE EXPANSION JOINTS AT MAXIMUM 60’ INTERVALS, OR FOR 350 SQ. FT. MAXIMUM AREAS AND BETWEEN INTERSECTING PAVING AND ANY FIXED STRUCTURE SUCH AS BUILDINGS AND CURBING. EXPANSION JOINTS TO BE FILLED WITH 1/2” THICK PRE-FORMED EXPANSION MATERIAL AND EXTEND THE FULL WIDTH AND DEPTH OF THE PAVING WITH THE TOP 3/4” RECESSED BELOW FINISH GRADE. TOP 3/4” OF JOINT TO BE SEALED WITH AN APPROVED JOINT ELASTOMERIC SEALANT.

PROVIDE 1/2” DIAMETER SMOOTH STEEL DOWELS @ 24” O.C. AT ALL SIDEWALK EXPANSION JOINT LOCATIONS. DOWEL BARS SHALL BE SLEEVED ON ONE SIDE. REFER TO SUGGESTED JOINT LAYOUTS ON PLAN SHEETS.

CONTRACTOR SHALL PROVIDE WEAKENED PLANE JOINTS BY A JOINTING TOOL OR OTHER ACCEPTABLE MEANS TO CREATE A WINDOW PANE JOINT. THE JOINT SHALL EXTEND INTO CONCRETE A LEAST 1/4 OF THE PAVEMENT DEPTH. REFER TO SUGGESTED JOINT LAYOUTS ON PLAN SHEETS.



CONTRACTOR IS RESPONSIBLE FOR SECURITY OF FRESHLY POURED CONCRETE UNTIL CONCRETE HARDENS. ALL CONCRETE THAT IS DAMAGED OR VANDALIZED AS A RESULT OF UNPROTECTION SHALL BE REPLACED, IN KIND, WITHOUT ANY DIRECT COST TO BREC.

**PROTECTION OF EXCAVATIONS:**

ALL SLOPE SIDES OF EXCAVATIONS AND/OR TRENCHES FOR INSTALLING CONDUIT SHALL COMPLY WITH OSHA REGULATIONS AND ANY APPLICABLE LOCAL CODES AND ORDINANCES. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.

WHEREVER LAWN IS DISTURBED, KILLED OR LEFT IN AN UNHEALTHY CONDITION AS DETERMINED BY THE OWNER, IT IS TO BE REPLACED BY THE CONTRACTOR USING GRASS TYPE – BERMUDA "CELEBRATION" AS DIRECTED BY BREC/ENGINEER, REFER TO THE SPECIFICATIONS FOR DRESSINGS, FERTILIZING, HYDRO-MULCHING, SEEDING AND INSTALLATION REQUIREMENTS.



**BASE BID:**

CRUSHED STONE PAVING FOR GARDEN PATHS SHALL BE CRUSHED LIMESTONE SIMILAR IN GRADATION TO DECOMPOSED GRANITE AS SHOWN BELOW.



**ADD ALTERNATE #3:**

\*DECOMPOSED GRANITE SPECIFICATIONS – REFER TO SHEET C-3.3

- THE DECOMPOSED GRANITE SHALL BE COMPRISED OF UNWASHED GRANITE AGGREGATE AND FINES THAT ARE HARD AND DURABLE, FREE FROM SURFACE COATINGS AND DELETERIOUS MATERIALS. AGGREGATE TO BE BROWNISH IN COLOR. GRADATION REQUIREMENTS SHALL BE AS FOLLOWS:
- CRUSHED STONE SIEVE ANALYSIS PERCENTAGE OF WEIGHT PASSING A SQUARE MESH SIEVE AASHTO T11-82 AND T2782

U.S. SIEVE NO.	GRADATION %PASSING BY WEIGHT
# 3/8"	100
# 4	90 – 100
# 8	75 – 80
# 16	55 – 65
# 30	40 – 50
# 50	25 – 35
# 100	15 – 20
# 200 to	10 – 15

ACCEPTABLE LOCAL DECOMPOSED GRANITE SUPPLIER LIST TO BE PROVIDED BY BREC

CONTRACTOR TO SUBMIT A SUFFICIENT SIZE SAMPLE OF DECOMPOSED GRANITE FOR BREC APPROVAL PRIOR TO CONSTRUCTION. SIZE, TEXTURE, AND COLOR WILL BE REVIEWED FOR APPROVAL OR REJECTION.



**INDEPENDENCE BOTANIC GARDEN - PHASE 1**

RECREATION and PARK COMMISSION for the PARISH OF EAST BATON ROUGE PARISH  
PLANNING & ENGINEERING DEPARTMENT

**GENERAL NOTES**

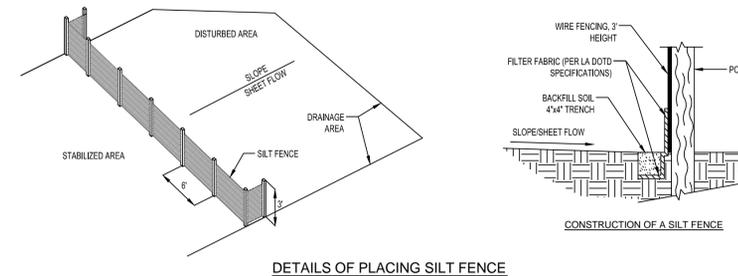
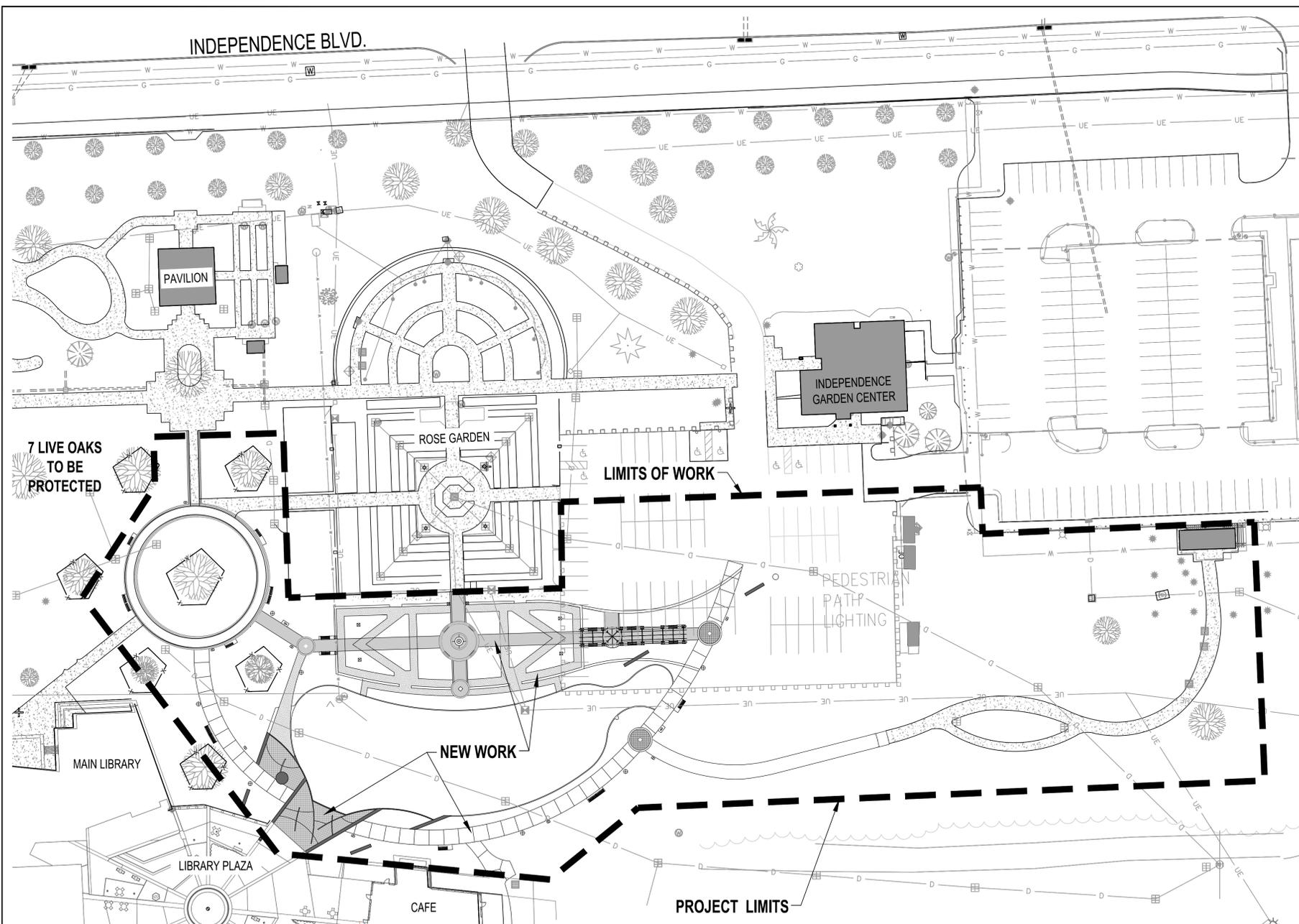
AUGUST, 2016

REVISIONS:



1 ADDENDUM #1 8-25-2016

**T-2**



**BEST MANAGEMENT PRACTICE PLAN:**

- To reduce sediments in runoff, erosion control structures shall be installed promptly during all construction phases.
- To insure erosion control structures work properly, it is imperative the sediments be removed; therefore "inspection" and "maintenance" of structures are to be performed on a regular basis by the contractor.
- During sediment removal, the contractor shall take care to insure that structural components of erosion control structures are not damaged and thus made ineffective. If damage does occur, the contractor shall repair the structures at the contractor's own expense.
- Sediment removed from sediment control structures is to be placed at a site approved by the engineer. It shall be treated in a manner so that the area around the disposal site will not be contaminated or damaged by the sediment in the runoff.
- Additional protection - on-site protection in addition to the above must be provided so that it will not permit silt to leave the project confines due to unseen conditions or accident.
- Contractor shall insure that all drainage structures, flumes, pipes, etc. are cleaned out and working properly at the time of acceptance of the project.
- Aggregate surfacing meeting LA DOTD standard specifications for roads and bridges, section 1003.01(d) stone.
- Upon complete removal of erosion control structures, the area where they were constructed is to be graded, seeded and mulched.
- Stockpiled topsoil or fill material is to be treated so the sediment runoff will not contaminate surrounding area or enter nearby drainage structures.
- Water is not to be pumped directly into existing drainage structures but is to be pumped into sediment traps only.
- Excavated areas will be promptly stabilized against erosion using temporary seeding and mulch, hydromulch or revegetative matting/siltation measures shall be implemented promptly to reduce sediment in runoff from construction into streams or drainage ditches by the use of erosion control structures.
- Secondary containment of hazardous material used by the contractor (fuel, oil, grease, etc.) in compliance with regulatory agencies is required.
- Weekly reports of erosion control structures and incident reports (rainfall of 0.5" or greater) are to be kept on file by the contractor at a designated facility (I.E. Home office).
- All construction access & entrances shall be maintained in a condition that prevents track or flowing of sediments onto public right-of-way. All sediments spilled, dropped, washed or tracked onto public right-of-way must be removed.
- It is the contractor's responsibility to provide a SWPPP plan to all required agencies and within the requirements outlined by these agencies.

**STRAW BALES BARRIER IN DRAINAGE WAY:  
CHANNEL FLOW APPLICATIONS**

- Bales shall be placed in a single row, lengthwise, oriented perpendicular to the contour with the ends of adjacent bales tightly abutting one another.
- MAINTENANCE**
- Straw bale barriers and silt fencing shall be inspected immediately after each rainfall event and at least daily during prolonged rainfall.
  - Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales.
  - Necessary repairs to or replacement of bales and silt fencing shall be accomplished promptly.
  - Sediment deposits must be removed when the level of the deposition reaches approximately one-half (1/2) the height of the barrier.
  - Any sediment deposits remaining in place after the straw bales and silt fencing is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

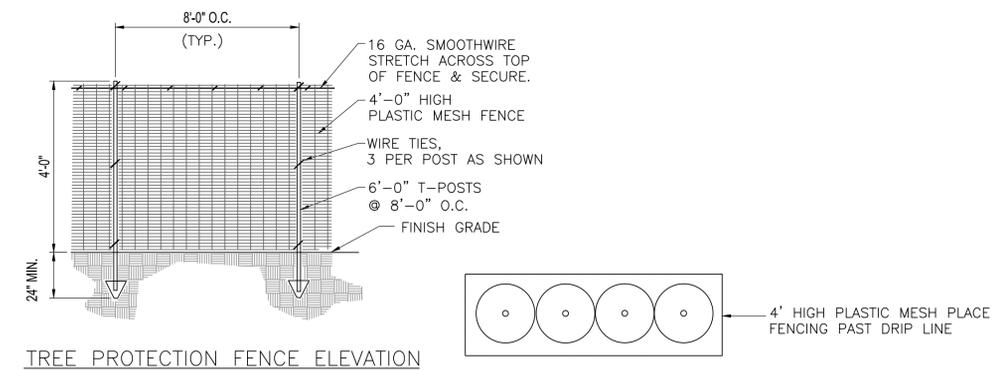
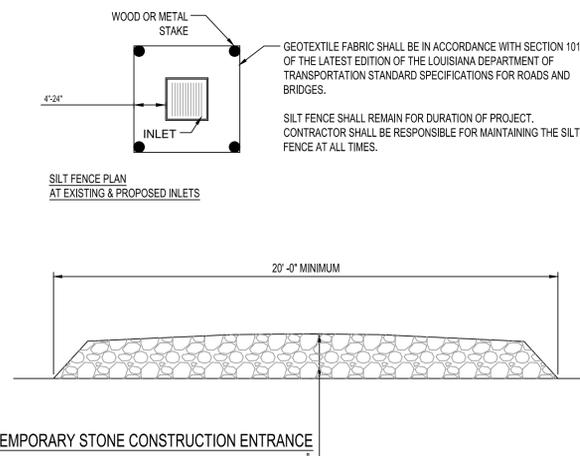
**1** TREE PROTECTION & STORMWATER BEST MANAGEMENT PLAN  
C-1.2 SCALE = 1" = 40' - 0"

**NOTES:**

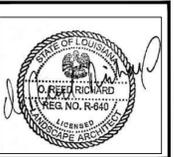
- CONTRACTOR SHALL BE REQUIRED TO KEEP STREET AND PARKING LOT FREE OF DIRT, MUD, AND DEBRIS.
- SILT FENCING SHALL REMAIN FOR DURATION OF PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SILT FENCE AT ALL TIMES.

**LEGEND**

- STABILIZATION PRACTICES (SILT FENCING &/OR HAY BALES)
- EXISTING CATCH BASIN LOCATIONS
- LIMITS OF WORK
- TREE PROTECTION FENCING



TREE PROTECTION FENCING MUST REMAIN STANDING IN GOOD CONDITION FOR THE DURATION OF THE PROJECT. TREE PROTECTION FENCING SHALL BE PLACED AROUND TRUNK TO THE DRIP-LINE, TYPICAL. ANY TREE TRIMMING MUST BE DONE BY A LICENSED ARBORIST. FENCING AND POSTS MUST AT ALL TIMES BE KEPT A MINIMUM OF 3'-0" FROM TREE TRUNKS. FENCING SHALL BE INSTALLED PAST DRIP-LINE, FAR ENOUGH TO PROTECT LIMBS FROM TRUCKS AND MOVING OBJECTS.



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

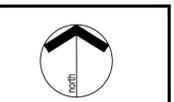
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT

**TREE PROTECTION & STORMWATER BEST MANAGEMENT PLAN**

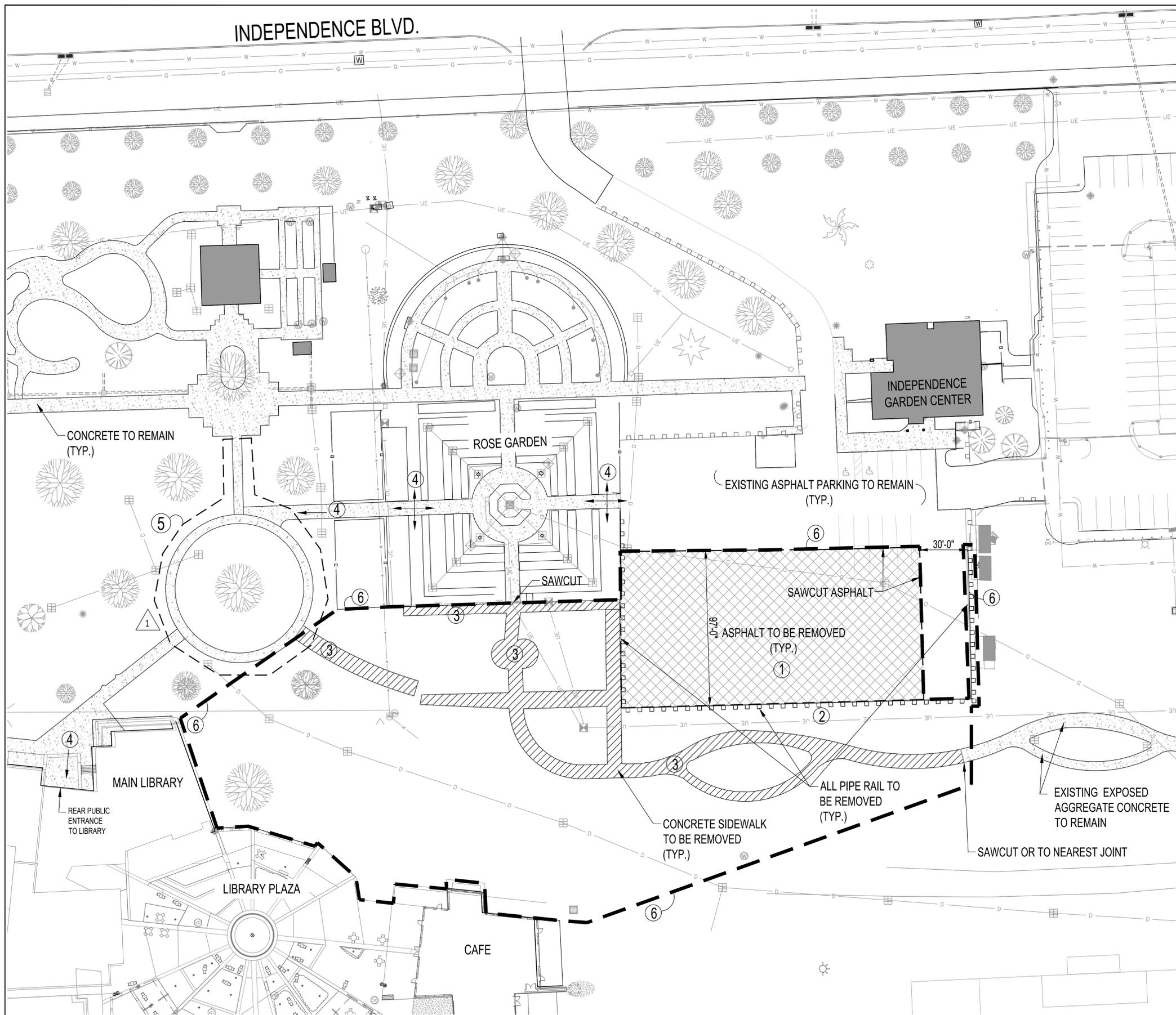
AUGUST, 2016

REVISIONS:

1. ADDENDUM #1 8-25-2016



C-1.2



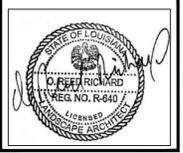
**DEMOLITION NOTES:**

1. CONTRACTOR IS ADVISED THAT UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHOULD TAKE EXTRA CARE IN EXCAVATING THESE LAND AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE TO UNDERGROUND UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
2. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION AND DEMOLITION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL REGULATIONS. NO CONSTRUCTION DEBRIS IS TO BE BURIED OR DEPOSITED ON SITE.
3. CONTRACTOR SHALL KEEP STREETS, DRIVES, AND PARKING LOTS FREE OF DIRT AND DEBRIS.
4. TREES ARE TO BE PROTECTED PER SPECIFICATIONS AND TREE PROTECTION PLAN. CONTRACTOR SHALL TAKE MEASURES TO AVOID DAMAGING BARK AND/OR ROOT SYSTEMS. ANY TREES DAMAGED SHALL BE REPLACED, BY THE CONTRACTOR AT NO COST TO THE OWNER, BY CROSS SECTION (SQ INCH FOR SQ INCH) AT D.B.H. OF THE EXISTING TREES.
5. SILT FENCING SHALL REMAIN FOR DURATION OF PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SILT FENCE AT ALL TIMES. SEE SITE PREPARATION PLAN, SHEET C-1.2.
6. THE CONTRACTOR IS TO MINIMIZE DISRUPTION OF THE LIBRARY, THE GARDEN CENTER, AND THE ROSE GARDEN'S REGULAR OPERATIONS.

- DEMO EXISTING ASPHALT & SOIL CEMENT
- DEMO EXISTING CONCRETE
- EXISTING CONCRETE TO REMAIN

**KEY**

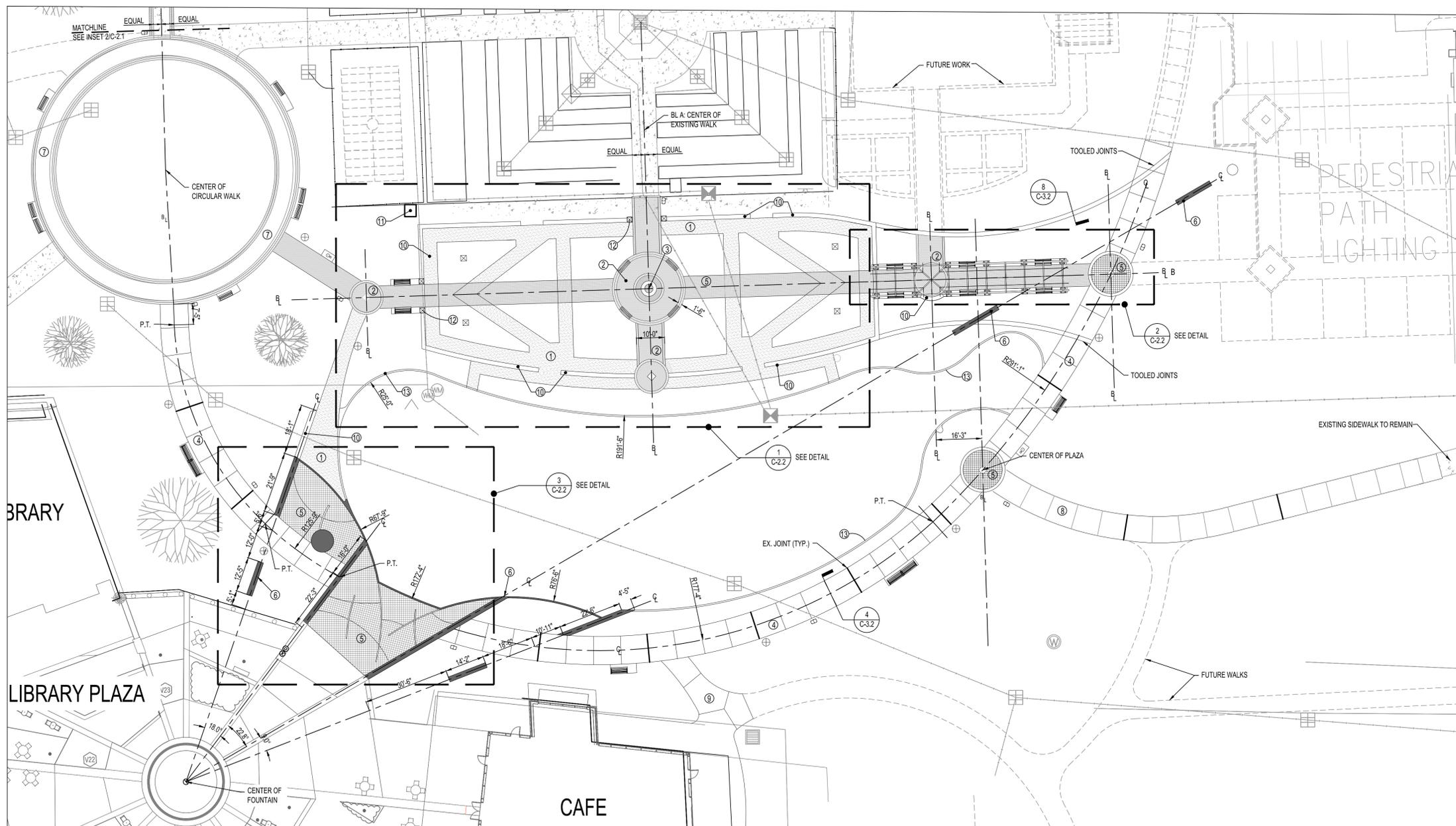
- ① REMOVE ASPHALT AND SUBBASE TO A TOTAL DEPTH OF 4".
- ② REMOVE PIPE RAIL AND BOLLARDS.
- ③ REMOVE EXISTING CONCRETE PAVING.
- ④ PUBLIC ACCESS TO ROSE GARDEN IS TO BE MAINTAINED DURING CONSTRUCTION.
- ⑤ LIMITS OF CONSTRUCTION TO BE PROTECTED FROM PUBLIC TEMPORARILY WITH MINIMAL DISRUPTION TO LIBRARY'S PUBLIC ACCESS.
- ⑥ LIMITS OF CONSTRUCTION TO BE CLOSED OFF FROM PUBLIC OVER FULL DURATION OF PROJECT. CONTRACTOR SHOULD PROVIDE PROTECTIVE BARRIERS THAT ARE A MINIMUM 6' HIGH.



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
 RECREATION AND PARK COMMISSION for the PARISH OF EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT  
**DEMOLITION & SITE PREPARATION PLAN**  
 AUGUST, 2016

REVISIONS:  
 1. ADDENDUM #1 8-25-2016





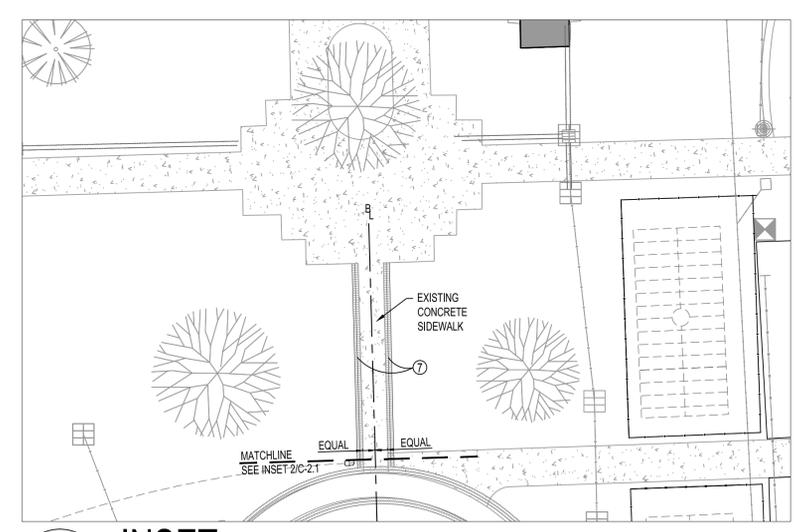
- LAYOUT NOTES:**
1. THE LAYOUT OF THE PROPOSED IMPROVEMENTS SHOULD BE UNDERTAKEN BY A LICENSED LAND SURVEYOR OR CIVIL ENGINEER USING THE AUTOCAD FILE PROVIDED TO THE CONTRACTOR BY BREC. ELECTRONIC SURVEY INFORMATION TO HELP ESTABLISH CONTROL POINTS WILL BE PROVIDED AS WELL IF REQUESTED BY CONTRACTOR. THE DIMENSIONS SHOWN ON THIS PLAN REFLECT DESIGN INTENT OR SHOW MINIMUM OR MAXIMUM DIMENSIONS REQUIRED BY BUILDING CODES OR ACCESS REGULATIONS. IF A CONFLICT BETWEEN THE AUTOCAD FILE AND THE DIMENSIONS SHOWN ON THE LAYOUT PLAN IS FOUND, NOTIFY BREC/LANDSCAPE ARCHITECT.
  2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
  3. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY BREC/LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
  4. THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCHMARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCHMARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
  5. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
  6. LAYOUT OF CENTERLINES FOR ALL WALKS SHOWN ON THIS SHEET SHOULD BE DONE IN A MANNER THAT RESULTS IN SMOOTH TANGENTS & RADDII AS SHOWN.
  7. \* BENCHES & BENCH PADS TO BE LOCATED IN FIELD BY CONTRACTOR FOR APPROVAL BY BREC PRIOR TO CONSTRUCTION.

**1 MATERIAL PLAN & SITE LAYOUT PLAN**  
 C-2.1 SCALE = 1" = 20' - 0"

**MATERIALS LEGEND**

- PROPOSED 4" THICK CONCRETE PAVEMENT -
- SUGGESTED EXPANSION JOINT LOCATIONS
- SUGGESTED CONTROL JOINT LOCATIONS (CONTROL JOINTS TO BE DONE WITH TOOLED WINDOW PANE JOINTS, 2" TO 3" WIDE)
- BACKLESS BENCH (11 TOTAL)
- BENCH WITH BACK (14 TOTAL)
- DRINKING FOUNTAIN (2 TOTAL)
- RECYCLING/LITTER RECEPTACLES (9 TOTAL)
- POLE MOUNTED LIGHT FIXTURE (7 TOTAL - SEE ELEC. PLANS)

- ① CRUSHED STONE PAVING
  - ② HERRINGBONE PATTERN BRICK PAVING W/ BLUESTONE BORDERS
  - ③ GARDEN FOUNTAIN
  - ④ CONCRETE SIDEWALK
  - ⑤ CONCRETE UNIT PAVERS
  - ⑥ WHITE CONCRETE BANDS
  - ⑦ EXISTING CIRCULAR CONCRETE WALK WITH NEW CONCRETE UNIT PAVER BORDERS
  - ⑧ NEW EXPOSED AGGREGATE CONCRETE WALK
  - ⑨ FUTURE CONCRETE SIDEWALK - BY OTHERS
  - ⑩ CONCRETE SEATWALLS
  - ⑪ FOUNTAIN PUMP VAULT
  - ⑫ BRICK COLUMNS
  - ⑬ 6" CONCRETE CURB
- P.T. = POINT OF TANGENCY



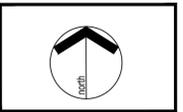
**2 INSET**  
 C-2.1 SCALE = 1" = 20' - 0"



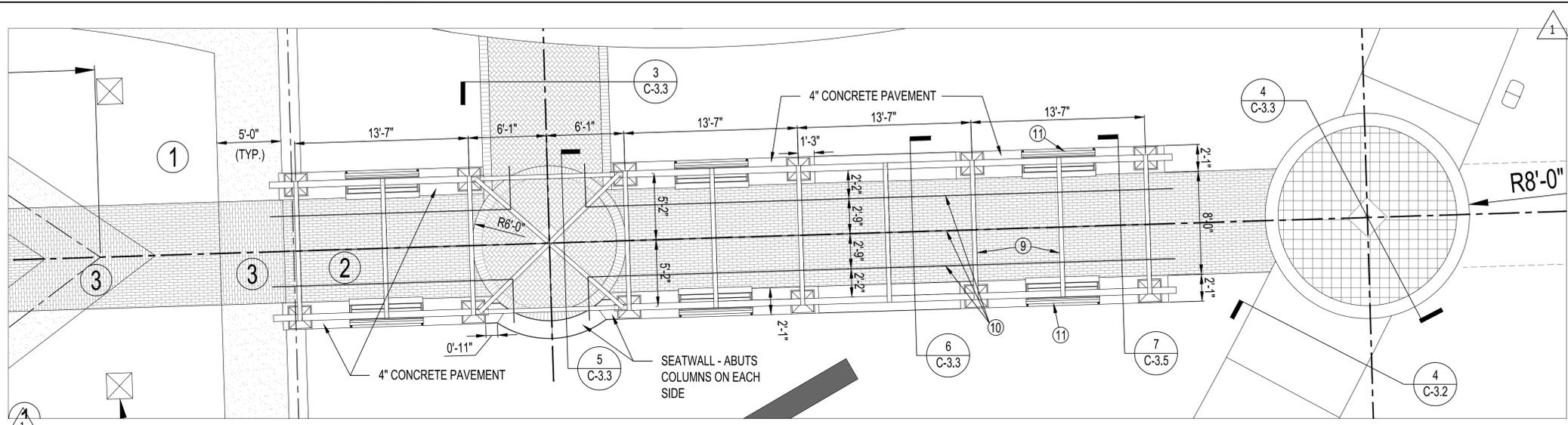
**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
 RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT

**MATERIAL PLAN & SITE LAYOUT PLAN**  
 AUGUST, 2016

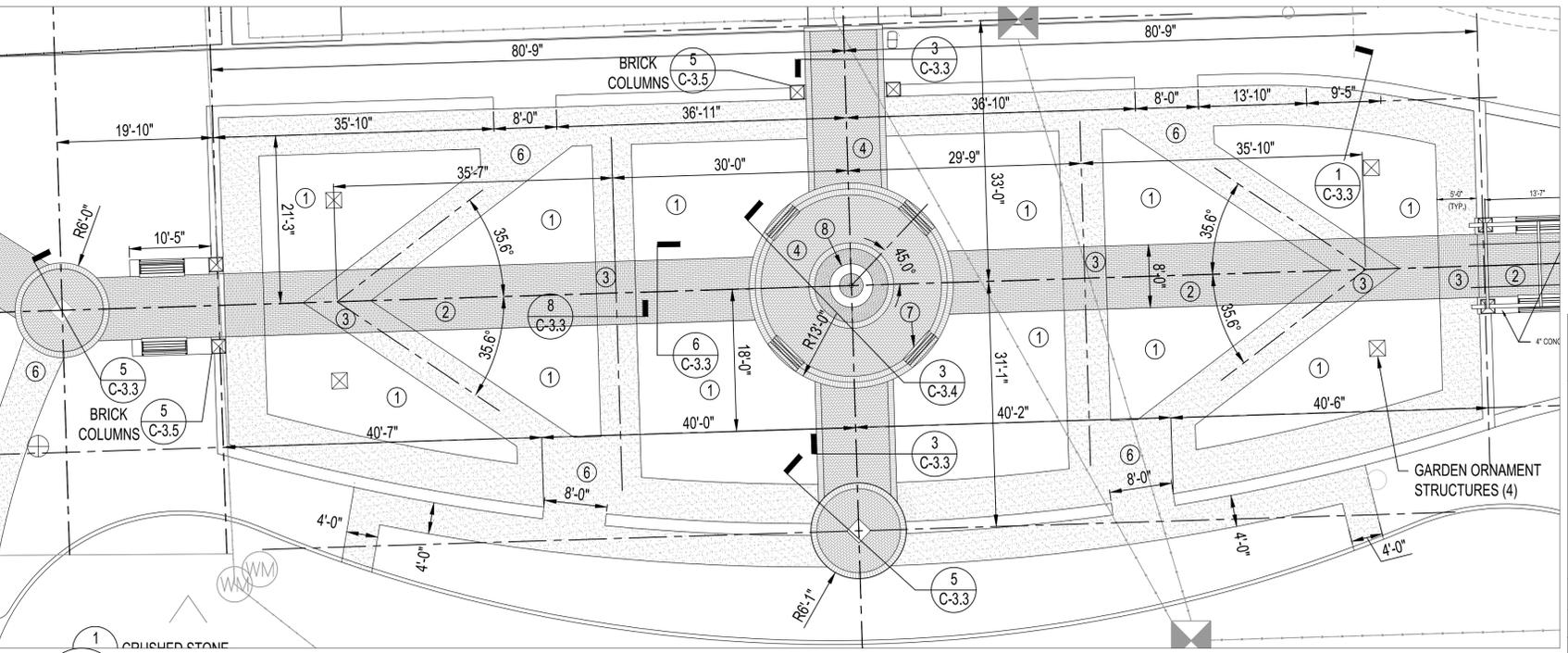
REVISIONS:  
 ① ADDENDUM #1 8-25-2016



**C-2.1**



1 PLAN LAYOUT ENLARGEMENT AREA  
C-2.2 SCALE = 1" = 5' - 0"



2 PLAN LAYOUT ENLARGEMENT AREA  
C-2.2 SCALE = 1" = 10' - 0"

- KEY**
- 1 PLANTING BEDS
  - 2 CONCRETE UNIT PAVERS - TYPE 1, COLOR 'B' IN STAGGERED RUNNING BOND PATTERN
  - 3 CONCRETE UNIT PAVERS - TYPE 2, COLOR 'C' IN RUNNING BOND PATTERN / 90 DEGREES TO 2.
  - 4 CLAYBRICK PAVERS IN HERRINGBONE PATTERN
  - 5 CONCRETE UNIT PAVERS - TYPE 2, COLORS AS INDICATED ON 3/C-2.2.
  - 6 60" WIDE CRUSHED STONE PATHS
  - 7 BACKLESS BENCHES
  - 8 GARDEN FOUNTAIN
  - 9 4" WIDE ARCHED STEEL PLATES (OVERHEAD)
  - 10 3/4" DIA. STEEL TRELLIS (OVERHEAD)
  - 11 BENCHES WITH BACKS

**UNIT PAVER TYPES - BY PAVESTONE INC. OR PRIOR APPROVED EQUAL.**

- 1 VERONA 8CM 3X18
- 2 HOLLAND / SQ 6CM

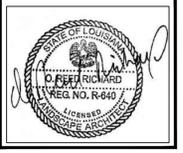
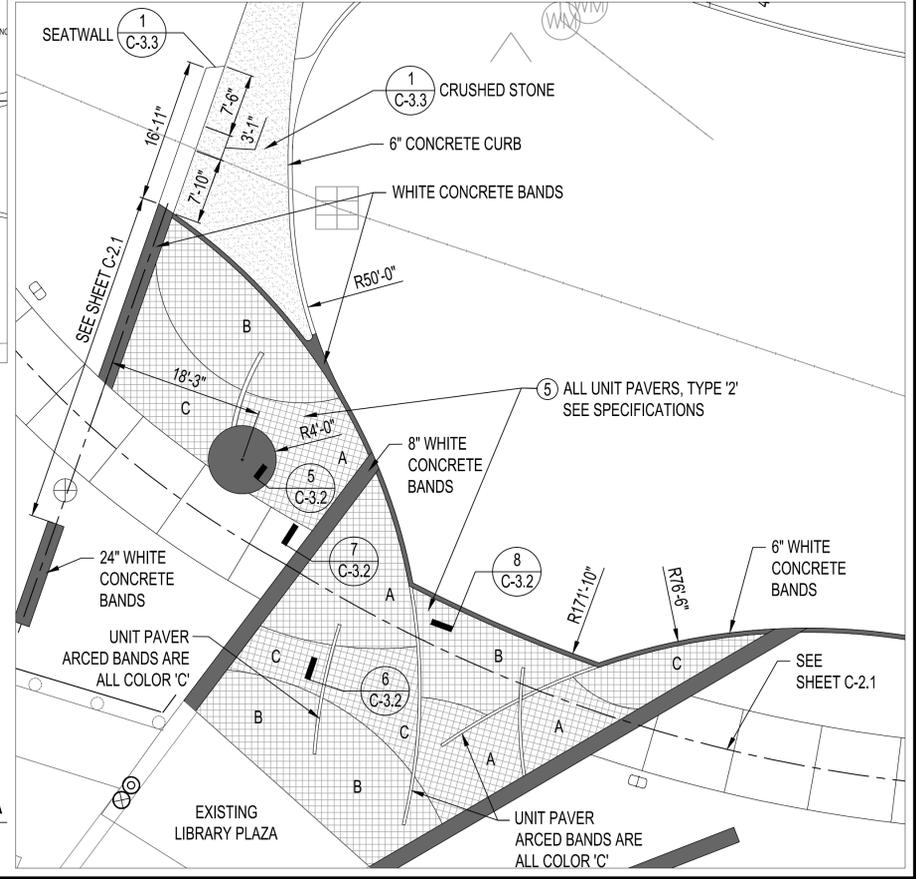
**PAVER COLORS - PAVESTONE COLOR CHART OR APPROVED EQUAL**

- A BUFF / CHARCOAL
- B ANTIQUE PEWTER
- C SILVER SHELL BLEND

3 PLAN LAYOUT ENLARGEMENT AREA  
C-2.2 SCALE = 1" = 10' - 0"

**LAYOUT NOTES:**

1. THE LAYOUT OF THE PROPOSED PROVEMENTS SHOULD BE UNDERTAKEN BY A LICENSED LAND SURVEYOR OR CIVIL ENGINEER USING THE AUTOCAD FILE PROVIDED TO THE CONTRACTOR BY BREC. ELECTRONIC SURVEY INFORMATION TO HELP ESTABLISH CONTROL POINTS WILL BE PROVIDED AS WELL IF REQUESTED BY CONTRACTOR. THE DIMENSIONS SHOWN ON THIS PLAN REFLECT DESIGN INTENT OR SHOW MINIMUM OR MAXIMUM DIMENSIONS REQUIRED BY BUILDING CODES OR ACCESS REGULATIONS. IF A CONFLICT BETWEEN THE AUTOCAD FILE AND THE DIMENSIONS SHOWN ON THE LAYOUT PLAN IS FOUND, NOTIFY BREC/LANDSCAPE ARCHITECT.
2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
3. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY BREC/LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCHMARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCHMARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
5. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
6. LAYOUT OF CENTERLINES FOR ALL WALKS SHOWN ON THIS SHEET SHOULD BE DONE IN A MANNER THAT RESULTS IN SMOOTH TANGENTS & RADDII AS SHOWN.
7. \* BENCHES & BENCH PADS TO BE LOCATED IN FIELD BY CONTRACTOR FOR APPROVAL BY BREC PRIOR TO CONSTRUCTION.



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

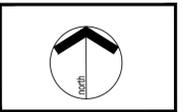
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT

**PLAN LAYOUT ENLARGEMENT AREAS**

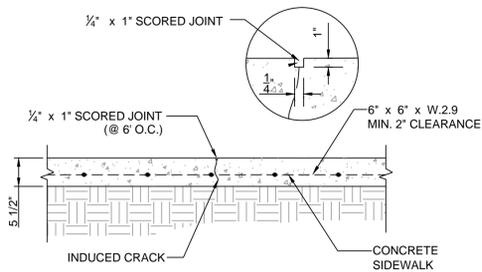
AUGUST, 2016

**REVISIONS:**

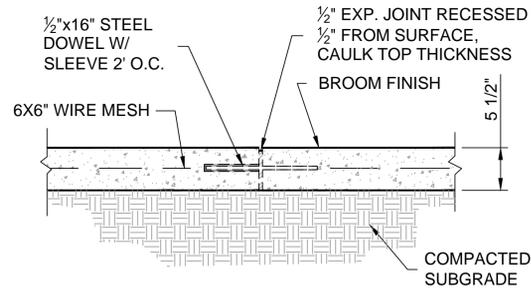
1	ADDENDUM #1 8-25-2016
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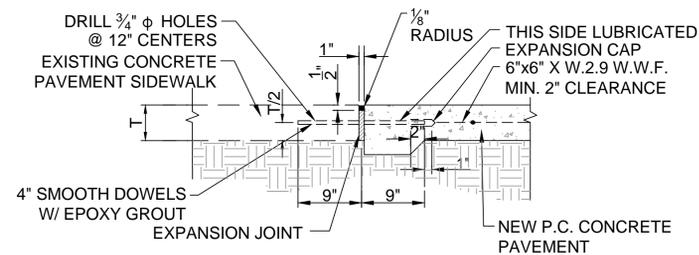
**C-2.2**



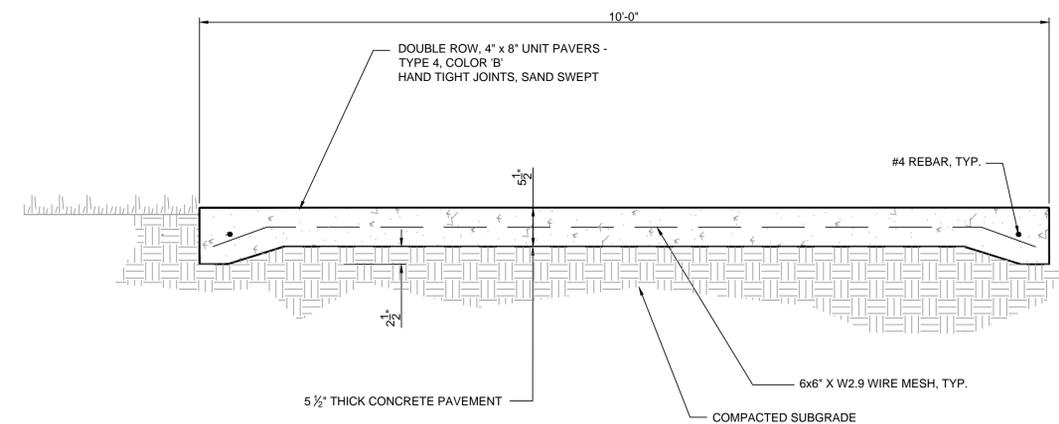
**1** **SIDEWALK CONTROL JOINT, TYP.**  
C3.2 SCALE: 1" = 1'-0"



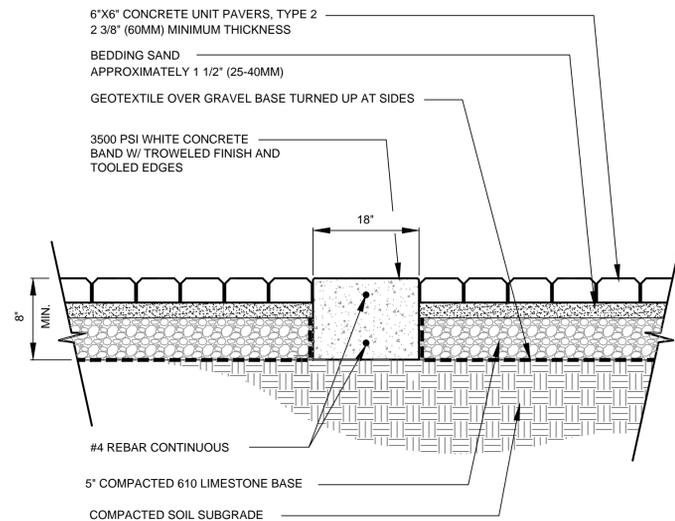
**2** **CONC. WALK EXP. JOINT, LONGITUDINAL-SECTION, TYP.**  
C3.2 SCALE: 1" = 1'-0"



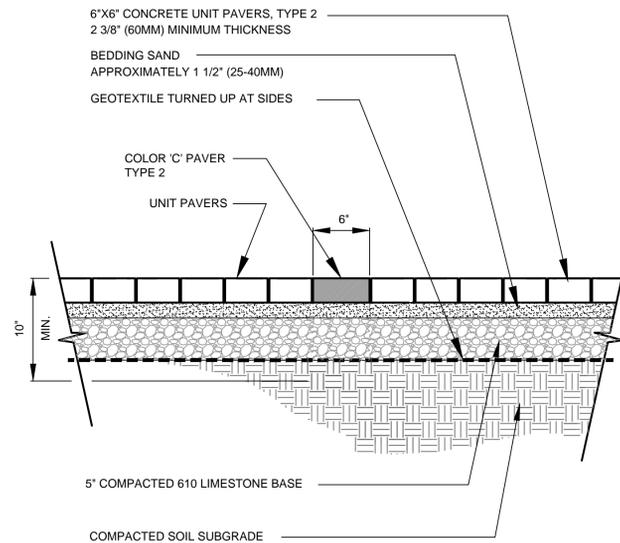
**3** **NEW CONCRETE TIE-IN TO EXISTING CONCRETE**  
C3.2 SCALE: 1" = 1'-0"



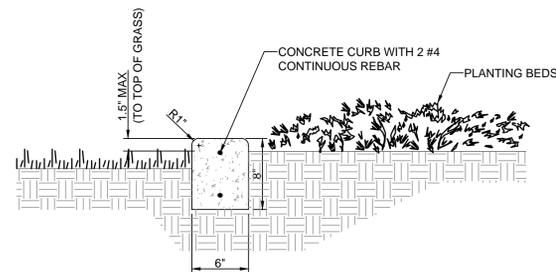
**4** **CONCRETE WALK CROSS SECTION**  
C3.2 SCALE: 1" = 1'-0"



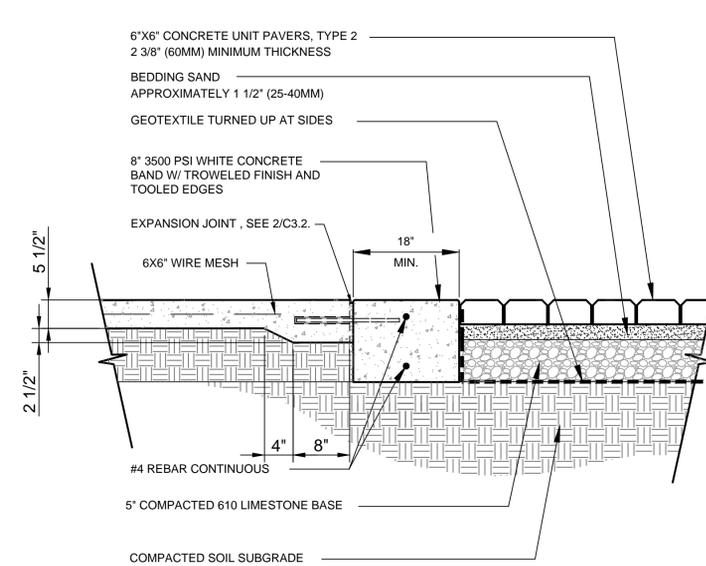
**5** **UNIT PAVERS WITH 24\"/>**



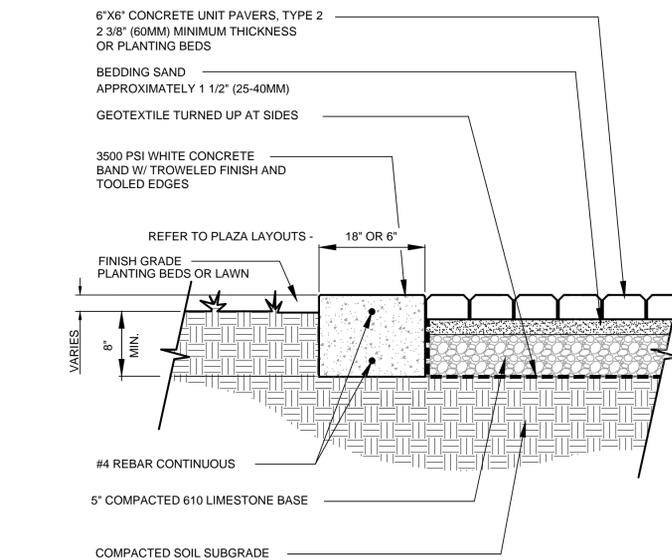
**6** **UNIT PAVERS WITH 8\"/>**



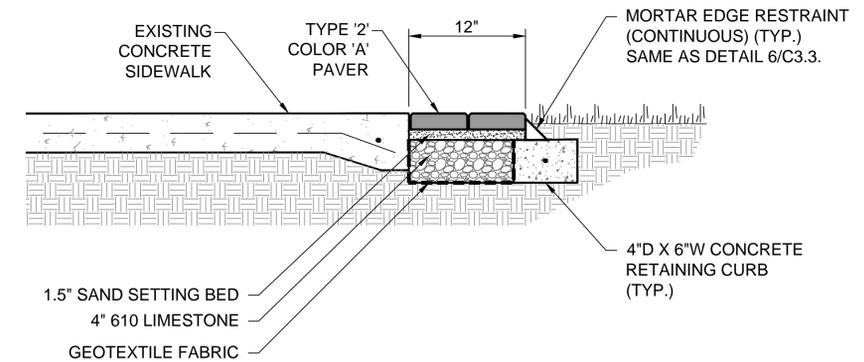
**9** **CONCRETE CURB, TYP.**  
C3.2 SCALE: 1" = 1'-0"



**7** **UNIT PAVERS, CONCRETE BAND @ CONCRETE PAVEMENT TYP.**  
C3.2 SCALE: 1" = 1'-0"



**8** **UNIT PAVERS WITH 24\"/>**



**10** **UNIT PAVER BORDERS @ EXISTING CONCRETE SIDEWALK**  
C3.2 SCALE: 1" = 1'-0"



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

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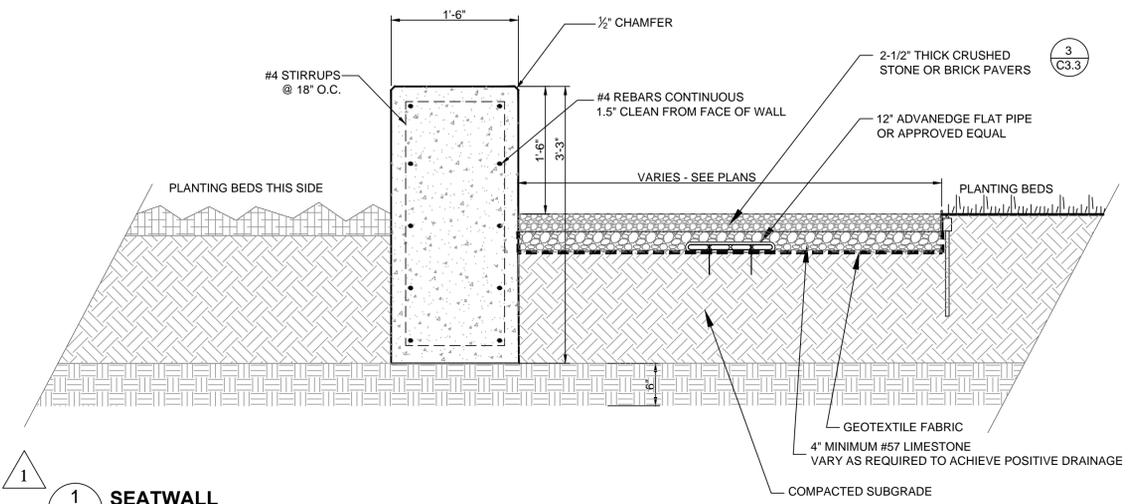
**SITE DETAILS**

AUGUST, 2016

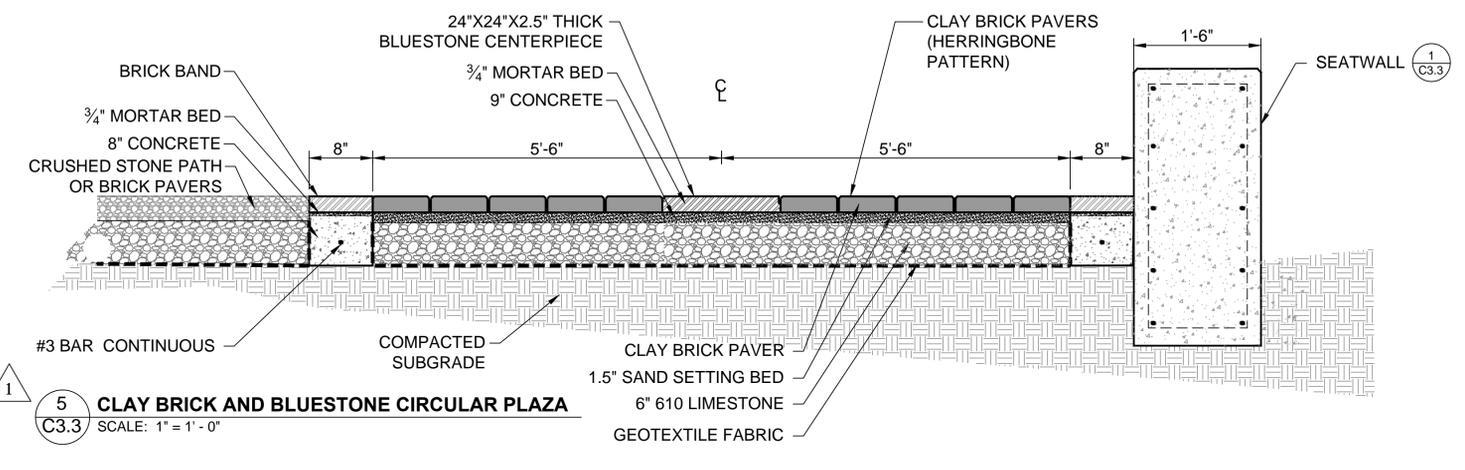
REVISIONS:

1. ADDENDUM #1 8-25-2016

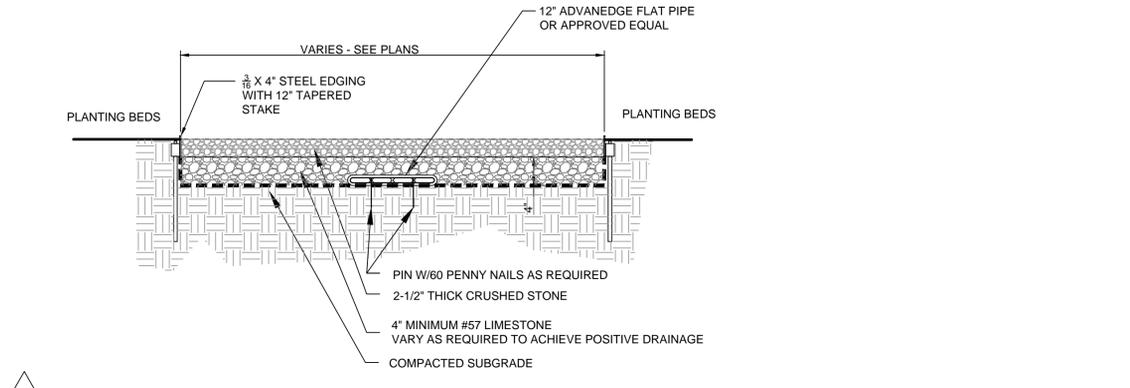
**C3.2**



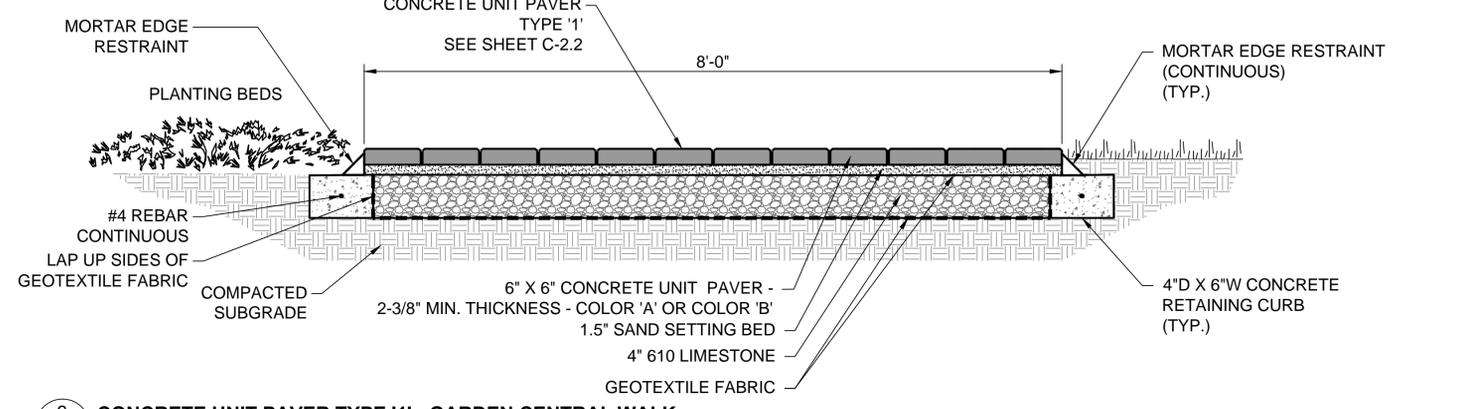
**1 SEATWALL**  
C3.3 SCALE: 1" = 1'-0"



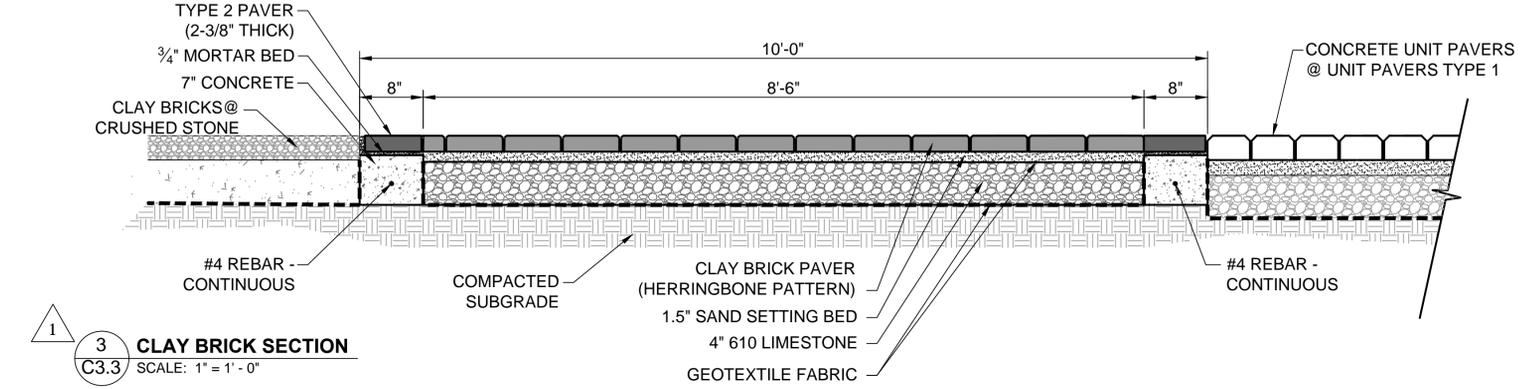
**5 CLAY BRICK AND BLUESTONE CIRCULAR PLAZA**  
C3.3 SCALE: 1" = 1'-0"



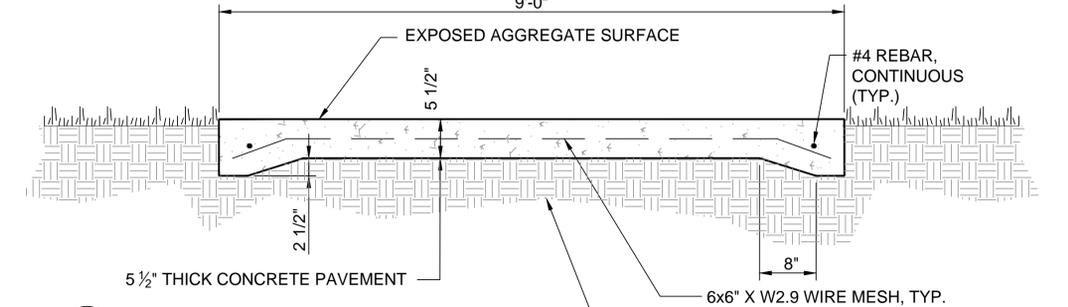
**2 CRUSHED STONE WALK CROSS SECTION**  
C3.3 SCALE: 1" = 1'-0"



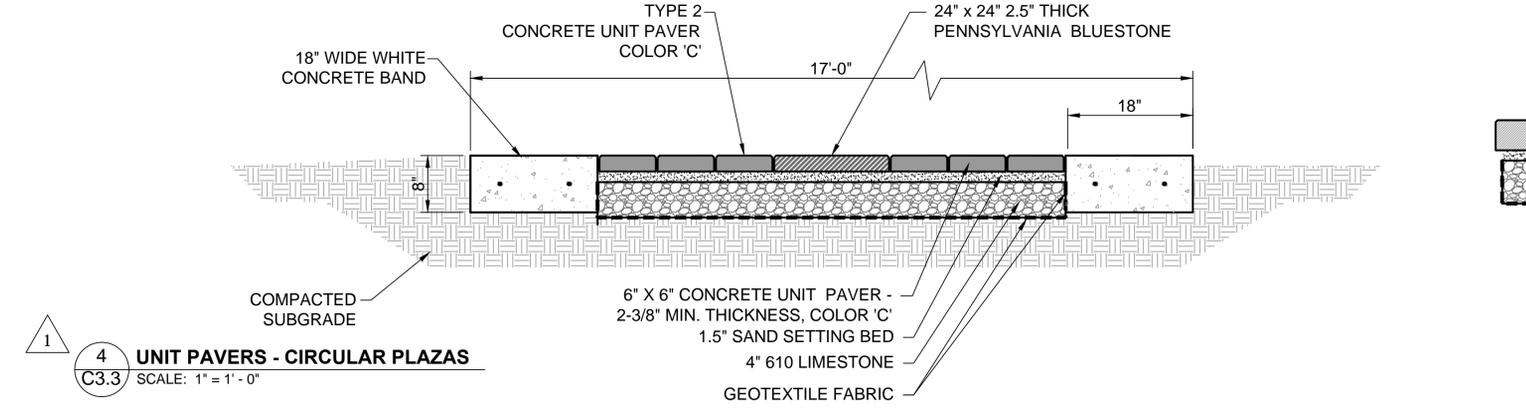
**6 CONCRETE UNIT PAVER TYPE '1' - GARDEN CENTRAL WALK**  
C3.3 SCALE: 1" = 1'-0"



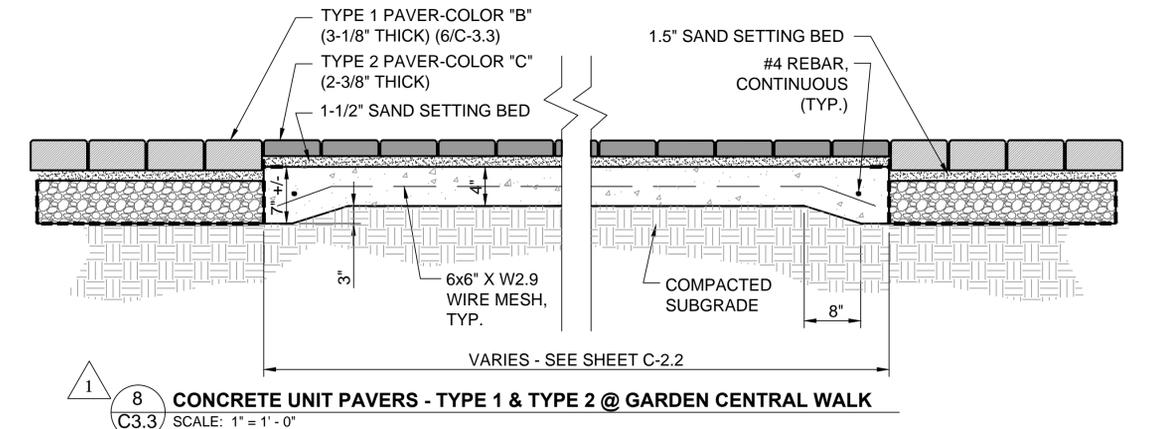
**3 CLAY BRICK SECTION**  
C3.3 SCALE: 1" = 1'-0"



**7 EXPOSED AGGREGATE**  
C3.3 SCALE: 1" = 1'-0"



**4 UNIT PAVERS - CIRCULAR PLAZAS**  
C3.3 SCALE: 1" = 1'-0"



**8 CONCRETE UNIT PAVERS - TYPE 1 & TYPE 2 @ GARDEN CENTRAL WALK**  
C3.3 SCALE: 1" = 1'-0"



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
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 PLANNING & ENGINEERING DEPARTMENT  
**SITE DETAILS**  
 AUGUST, 2016

REVISIONS:  
 1. ADDENDUM #1 8-25-2016

**C3.3**



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH  
PLANNING & ENGINEERING DEPARTMENT

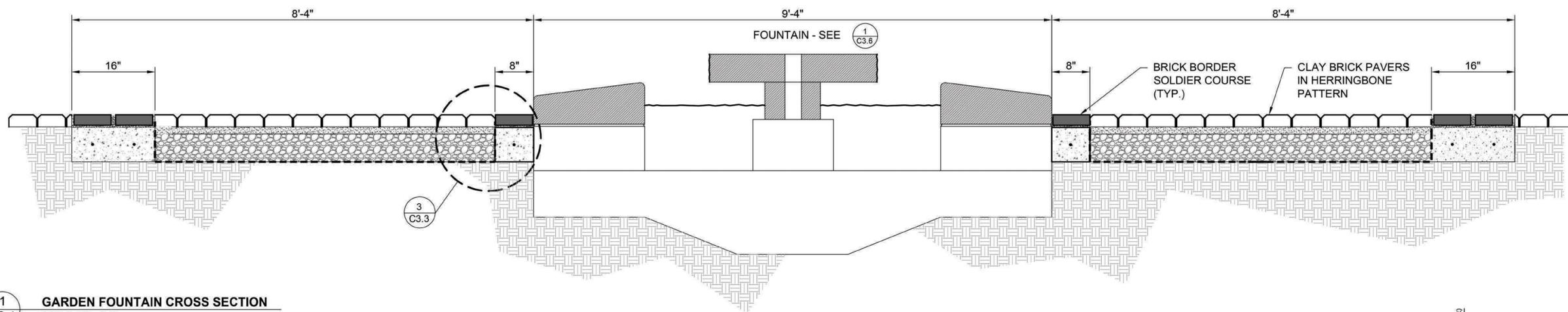
**SITE DETAILS**

AUGUST, 2016

**REVISIONS:**

1. ADDENDUM #1 8-25-2016

**C3.4**



**1**  
**C3.4** GARDEN FOUNTAIN CROSS SECTION  
SCALE: 1" = 1'-0"

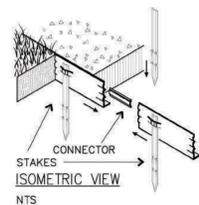
ARCHITECT NOTE: CHECK OFF APPLICABLE SIZE & FINISH DESIRED

**SIZE:**

- 1/8" X 3/8" (3.2 MM X 89 MM) 0.060" (1.52 MM) THICK W/ 0.200" (5.08 MM) EXPOSED TOP LIP
- 3/16" X 3/8" (4.8 MM X 89 MM) 0.076" (1.93 MM) THICK W/ 0.200" (4.83 MM) EXPOSED TOP LIP

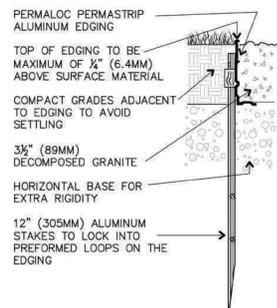
**FINISH LEGEND:**

- (MF) MILL FINISH-NATURAL ALUMINUM
- (BL) BLACK DURAFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603



**NOTES:**

1. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES"
2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES.
3. 16'-0" (4.88 M) SECTIONS TO INCLUDE (8) 12" (305 MM) ALUMINUM STAKES.
4. CORNERS: NOTCH BASE ONLY AND FORM CONTINUOUS CORNER. PERMALOC PERMASTRIP AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 358-9660, (616) 399-9600
5. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT: WWW.PERMALOC.COM



ARCHITECT NOTE: CHECK OFF APPLICABLE SIZE & FINISH DESIRED

**SIZE:**

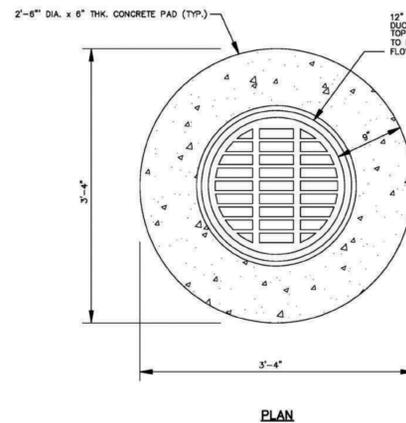
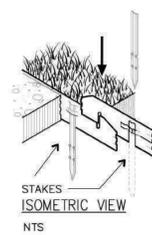
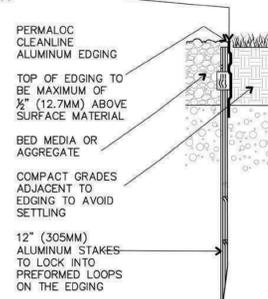
- 1/8" X 3" (3.2MM X 76MM), 0.072" (1.83MM) THICK w/ 0.135" (3.43MM) EXPOSED TOP LIP •MF •BL
- 1/8" X 4" (3.2MM X 102MM), 0.072" (1.83MM) THICK w/ 0.135" (3.43MM) EXPOSED TOP LIP •MF •BL •BR •BLANO
- 3/16" X 4" (4.8MM X 102MM), 0.116" (2.95MM) THICK w/ 0.187" (4.75MM) EXPOSED TOP LIP •MF •BL •BR •BLANO
- 1/8" X 5 1/2" (3.2MM X 140MM), 0.072" (1.82MM) THICK w/ 0.135" (3.43MM) EXPOSED TOP LIP •MF •BL •BR •BLANO
- 3/16" X 5 1/2" (4.8MM X 140MM), 0.116" (2.95MM) THICK w/ 0.187" (4.75MM) EXPOSED TOP LIP •MF •BL •BR •BLANO

**FINISH LEGEND:**

- (MF) MILL FINISH-NATURAL ALUMINUM
- (BL) BLACK DURAFLEX-MEETS AAMA 2603
- (GR) GREEN DURAFLEX-MEETS AAMA 2603
- (BR) BRONZE DURAFLEX-MEETS AAMA 2603
- (BLANO) BLACK ANODIZED - CLASS II, AA-M10C21A33

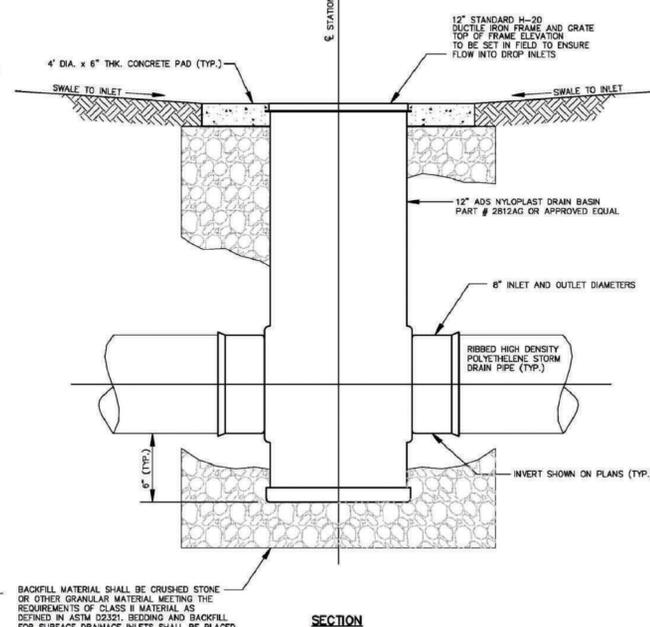
**NOTES:**

1. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES"
2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES.
3. 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 12" (305 MM) ALUMINUM STAKES.
4. CORNERS - CUT BASE EDGING UP HALFWAY AND FORM A CONTINUOUS CORNER.
5. PERMALOC CLEANLINE AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 358-9660, (616) 399-9600
6. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT: WWW.PERMALOC.COM



NOTE: FINAL LOCATION OF 12" DRAIN BASINS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

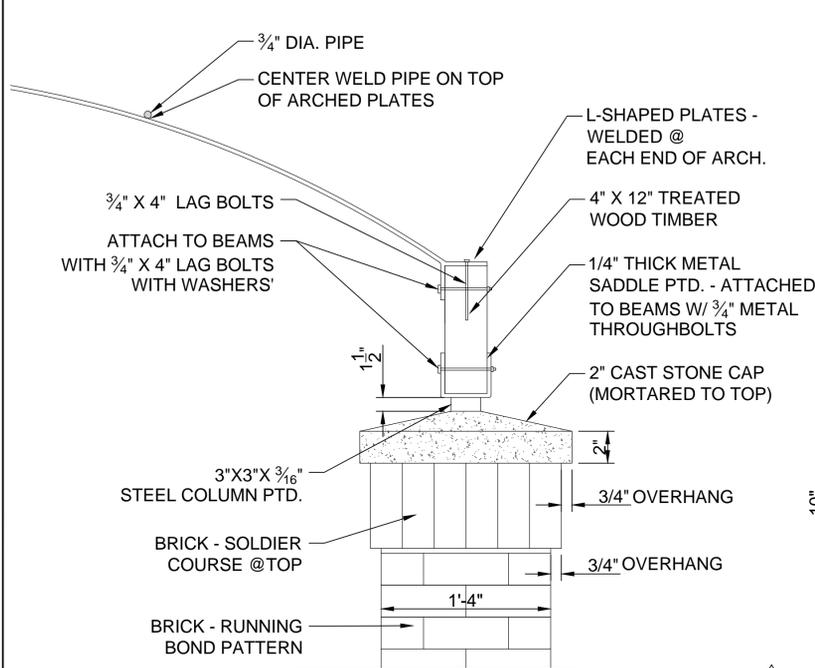
**1**  
**4**  
**C3.4** CATCH BASIN  
SCALE: 3/4" = 1'-0"



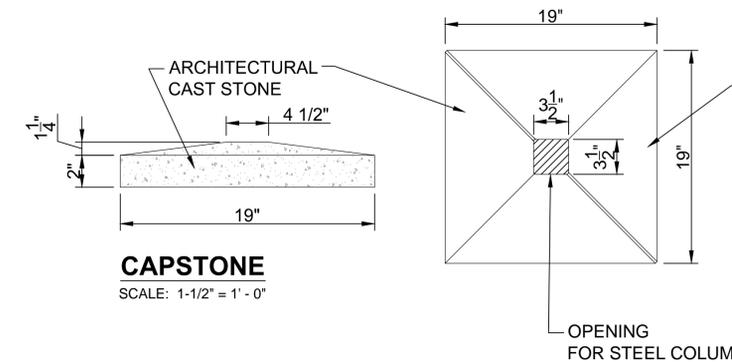
BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING AND BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

**1**  
**2**  
**C3.4** ALUMINUM EDGING - FOR STRAIGHT RUNS  
SCALE: 1-1/2" = 1'-0"

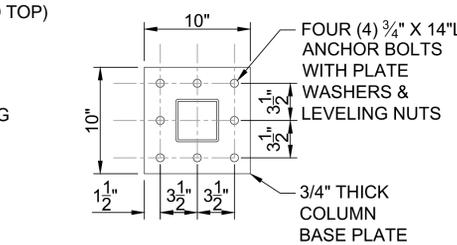
**1**  
**3**  
**C3.4** ALUMINUM EDGING - FOR CURVED RUNS  
SCALE: 1-1/2" = 1'-0"



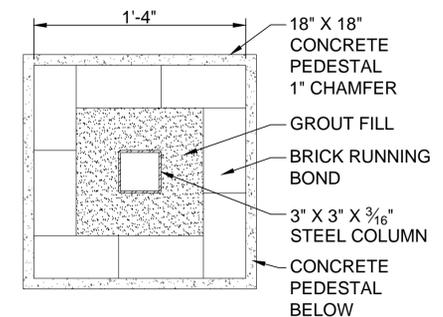
**1 TOP OF COLUMN & STEEL TRUSS DETAIL**  
SCALE: 1-1/2" = 1'-0"



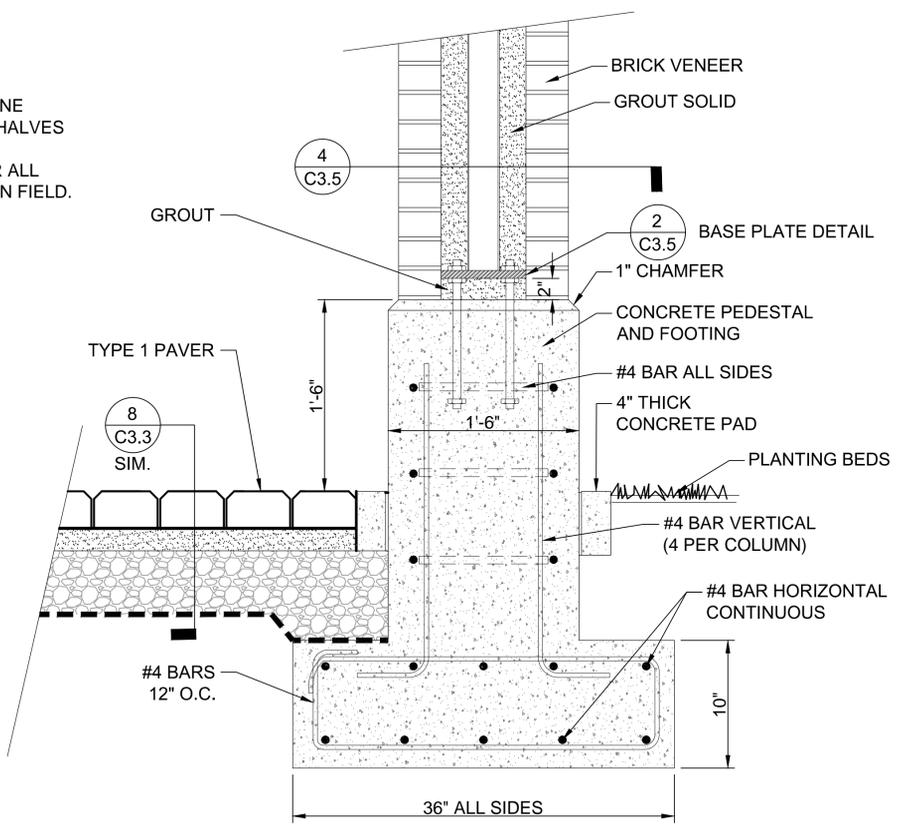
**3 CAPSTONE PLAN**  
SCALE: 1-1/2" = 1'-0"



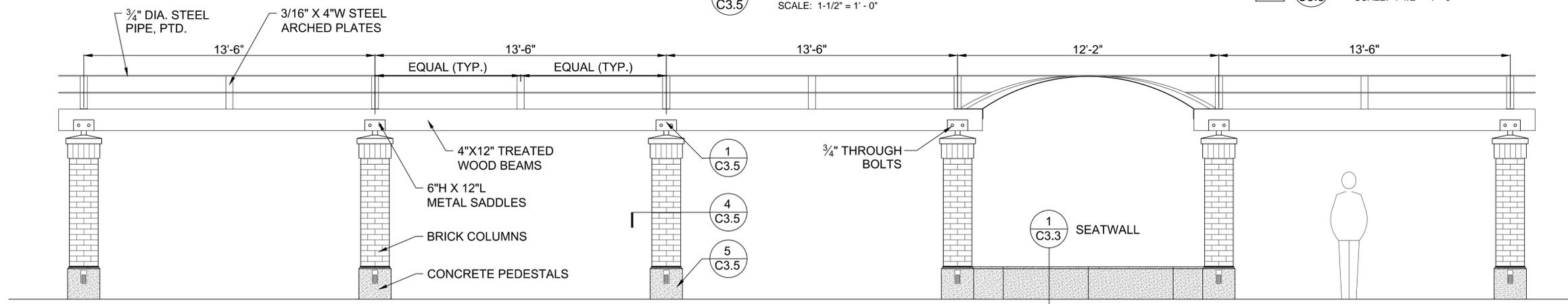
**2 COLUMN BASE PLATE**  
SCALE: 1-1/2" = 1'-0"



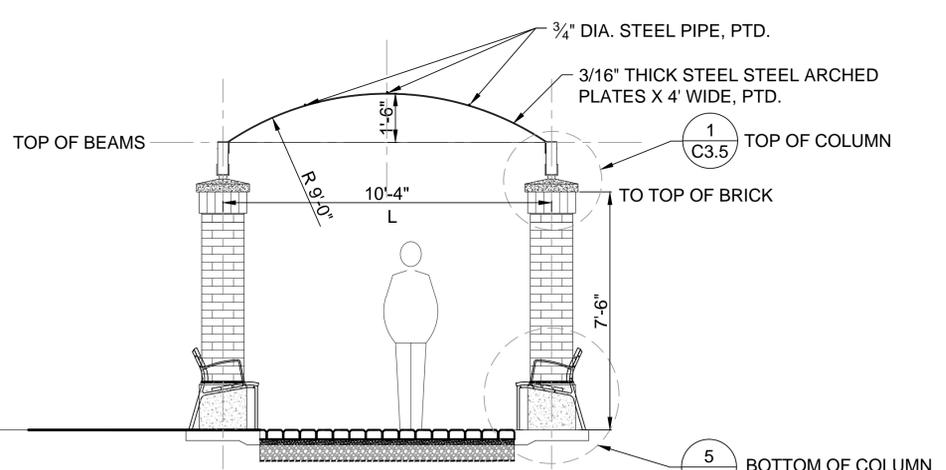
**4 COLUMN SECTION**  
SCALE: 1-1/2" = 1'-0"



**5 FOOTING DETAIL**  
SCALE: 1-1/2" = 1'-0"



**6 PERGOLA - NORTH ELEVATION**  
SCALE: 3/8" = 1'-0"



**7 PERGOLA - EAST ELEVATION**  
SCALE: 3/8" = 1'-0"



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH  
PLANNING & ENGINEERING DEPARTMENT  
**SITE DETAILS**  
AUGUST, 2016

REVISIONS:  
1. ADDENDUM #1 8-25-2016

**C3.5**



**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

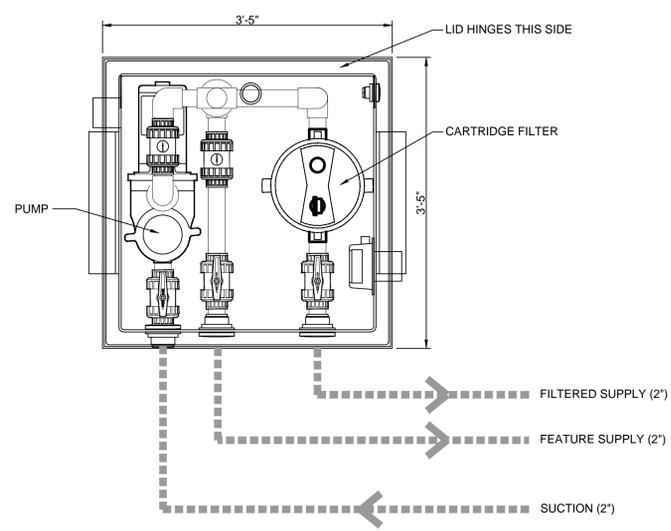
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH  
PLANNING & ENGINEERING DEPARTMENT

**SITE DETAILS**

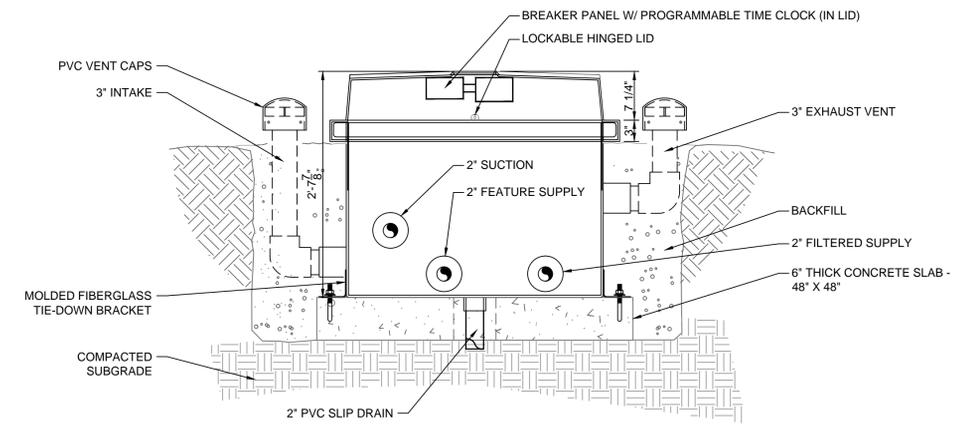
AUGUST, 2016

**REVISIONS:**

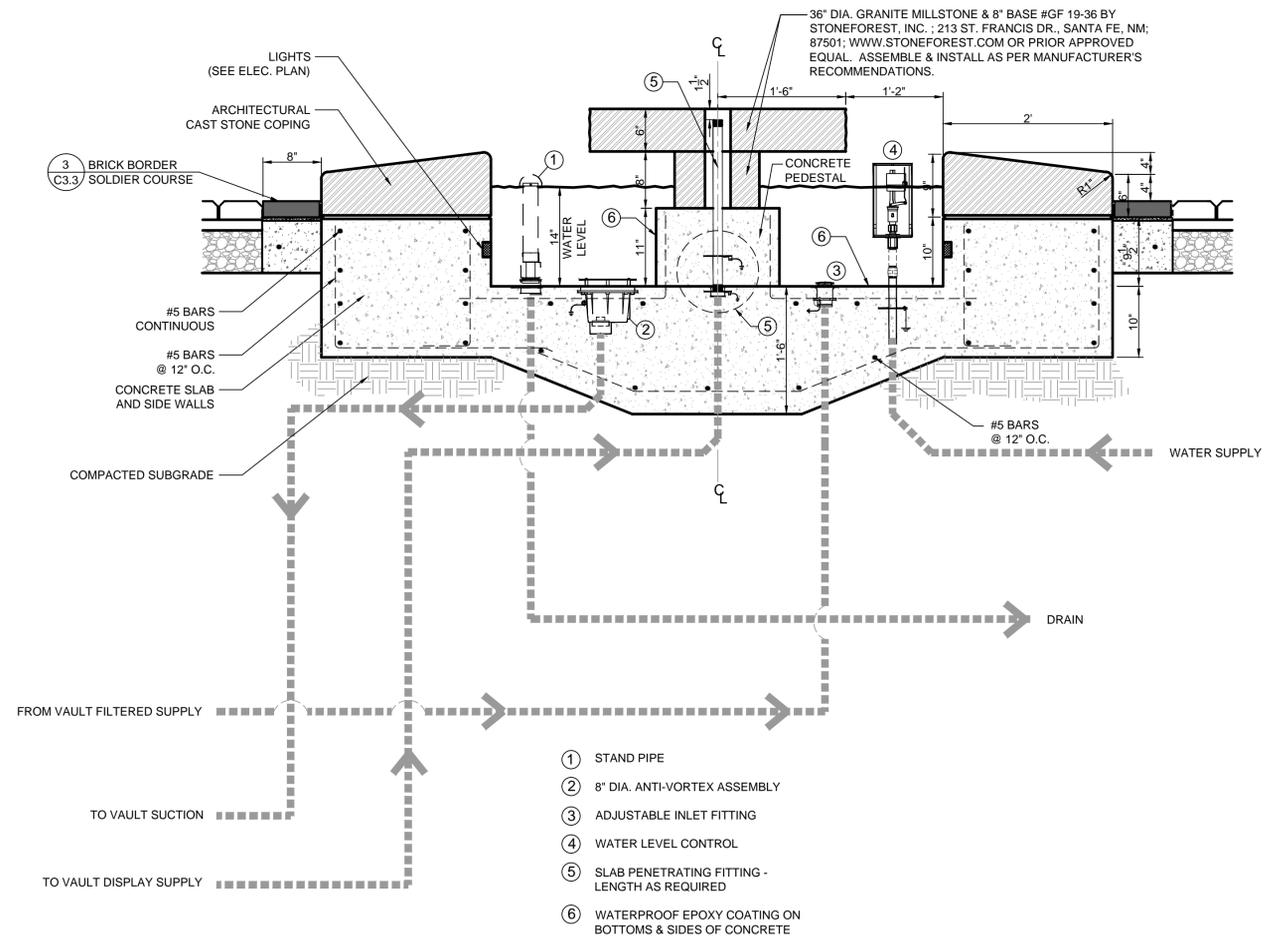
1. ADDENDUM #1 8-25-2016



**1 FOUNTAIN VAULT ASSEMBLY PLAN**  
SCALE: 1" = 1'-0"

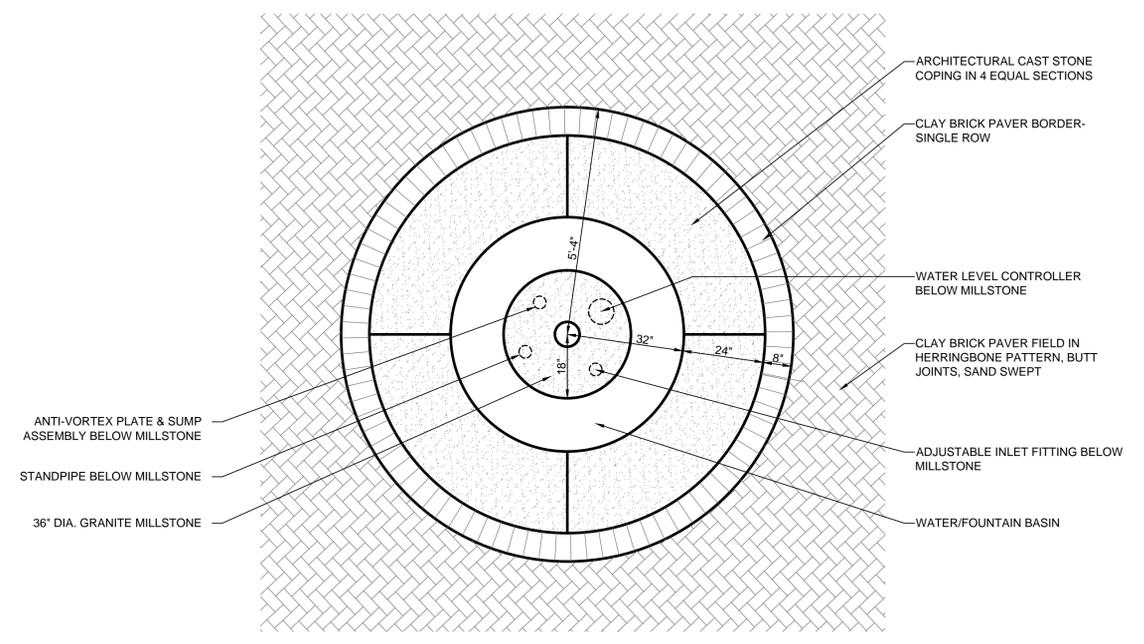


**ELEVATION**

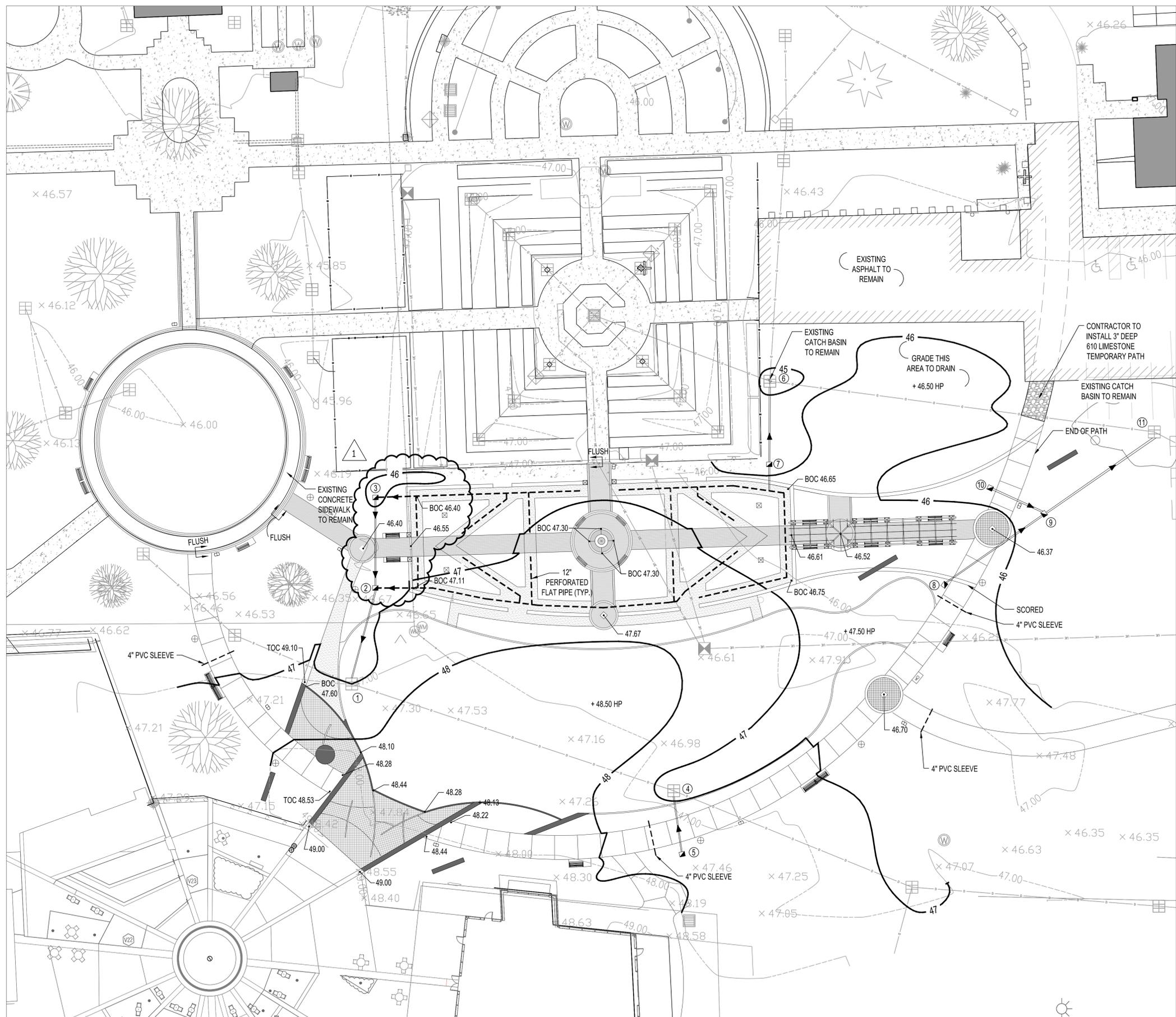


- 1 STAND PIPE
- 2 8" DIA. ANTI-VORTEX ASSEMBLY
- 3 ADJUSTABLE INLET FITTING
- 4 WATER LEVEL CONTROL
- 5 SLAB PENETRATING FITTING - LENGTH AS REQUIRED
- 6 WATERPROOF EPOXY COATING ON BOTTOMS & SIDES OF CONCRETE

**2 FOUNTAIN SECTION**  
SCALE: 1" = 1'-0"



**3 FOUNTAIN PLAN**  
SCALE: 1/2" = 1'-0"



**GRADING & DRAINAGE NOTES:**

1. THE ELEVATIONS SHOWN HEREON BASED OFF AN "C&G RTK SOLUTION" NAVD 88 GEOID 09. SEE SURVEY.
2. GRADE ALL AREAS WHERE CHANGES OF GRADE ARE INDICATED ON THE DRAWINGS AND WHERE STOCKPILED MATERIALS, EQUIPMENT, ETC. HAS DISTURBED THE ORIGINAL GROUND SURFACE.
3. ALL GRADED SURFACES SHALL BE FINISHED TO UNIFORM LEVELS, SLOPED AND SMOOTHED WITHIN THE FOLLOWING TOLERANCES:  
 A. LAWN OR UNPAVED AREAS: AT ALL POINTS FINISHED SURFACE SHALL BE: WITHIN PLUS OR MINUS 0.10 FOOT OF REQUIRED ELEVATION.  
 B. BENEATH PAVEMENT: AT ALL POINTS FINISHED SURFACE SHALL BE: WITHIN PLUS 1/2" OR MINUS 1/2" OF REQUIRED ELEVATION.
4. FILL FOR GENERAL GRADING AND LANDSCAPING SHALL BE CLEAN, FREE FROM ROOTS, LUMPS AND OTHER DETERIOUS MATERIALS AND SHALL BE OF SUCH COMPOSITION TO FORM A FIRM AND STABLE GROUND SURFACE SUITABLE FOR THE PLANTING OF LAWN GRASS. THIS FILL SHALL BE PLACED TO A UNIFORM SURFACE TEXTURE AND GRADED TO SMOOTH CONTOURS BETWEEN ELEVATIONS SHOWN ON THE DRAWINGS.
5. WALKS ARE TO FOLLOW EXISTING GRADES WHERE POSSIBLE. CONTRACTOR TO MAINTAIN TOP OF CONCRETE AT 1.5" - 2" CLEARANCE ABOVE FINISHED GROUND. IF THERE IS ANY CONFLICT BETWEEN THE PLAN AND EXISTING SITE CONDITIONS, NOTIFY THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
7. ALL NEW SUBSURFACE DRAIN LINES SHALL BE POLYETHYLENE PLASTIC PIPE IN ACCORDANCE WITH THE LATEST EDITION OF THE LA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND SIZED SHOWN ON PLANS.
8. ALL DRAINAGE PIPES TO HAVE A MINIMUM SLOPES OF 0.5%.
9. ALL TOPS OF WALKS TO BE CONSTRUCTED 1.5" TO 2" ABOVE FINAL GRADE (SOD) AND SHAPE SURROUNDING GROUND TO DRAIN.

**DRAINAGE SCHEDULE**

STRUCTURE #	TYPE	TOP	INVERT
1	EXISTING CATCH BASIN	47.00	43.84
2	STANDARD GRATE INLET	46.15	44.03
3	STANDARD GRATE INLET	45.92	44.20
4	EXISTING CATCH BASIN	46.79	44.79
5	STANDARD GRATE INLET	46.75	42.41
6	EXISTING CATCH BASIN	44.98	42.28
7	STANDARD GRATE INLET	45.88	42.45
8	STANDARD GRATE INLET	46.10	42.80
9	STANDARD GRATE INLET	45.80	42.60
10	STANDARD GRATE INLET	45.86	42.71
11	STANDARD GRATE INLET	44.16	42.30

**PIPE CHART**

FROM	TO	LENGTH	SIZE/TYPE	SLOPE
1	2	38'	8" PVC	0.5%
2	3	35'	6" PVC	0.5%
4	5	22'	8" PVC	0.5%
6	7	32'	6" PVC	0.5%
8	9	50'	8" PVC	0.5%
9	11	55'	8" PVC	0.5%
10	9	23'	8" PVC	0.5%

**LEGEND:**

- EXISTING ELEVATION CONTOURS
- PROPOSED CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED SUBSURFACE DRAINAGE CONDUIT
- PROPOSED CATCH BASIN
- CATCH BASIN #
- BOTTOM OF CURB OR WALL
- TOP OF CURB OR WALL
- 4" PERFORATED FLAT PIPE SLOPE TO DRAIN

**1 GRADING & DRAINAGE PLAN**  
SCALE = 1" = 20' - 0"

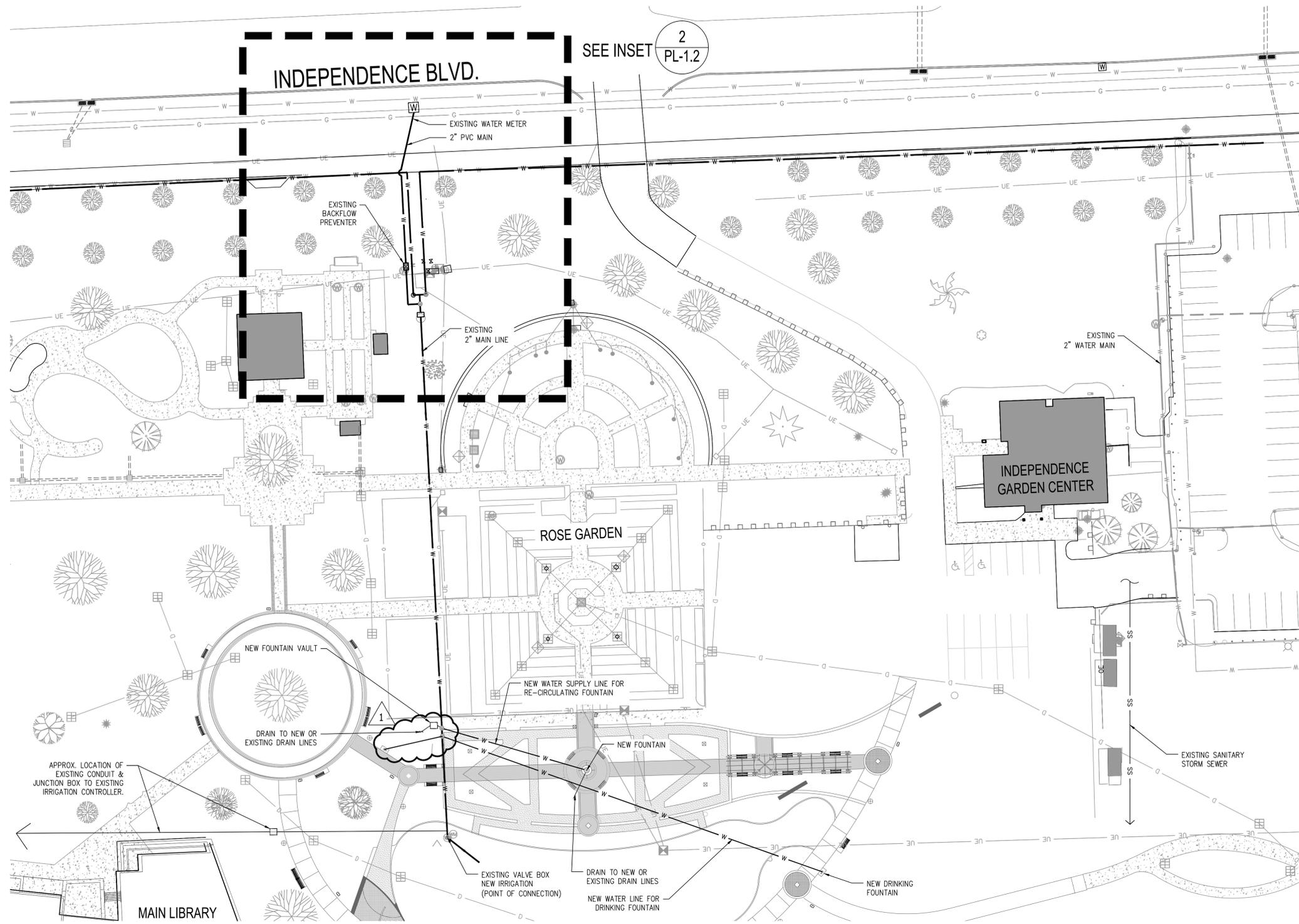


**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT  
**GRADING & DRAINAGE PLAN**  
AUGUST, 2016

REVISIONS:  
1 ADDENDUM #1 8-25-2016

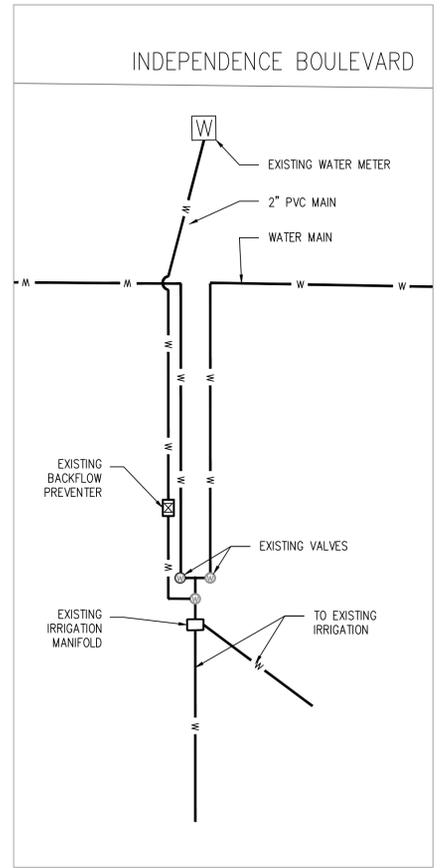


**GR-1.1**



**1** UTILITY SITE PLAN  
 PL-1.1 SCALE = 1" = 30' - 0"

SEE INSET **2**  
 PL-1.2



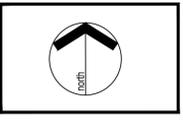
**2** INSET  
 PL-1.1 SCALE = 1" = 20' - 0"

- LEGEND**
- EXISTING WATER MAIN LINE
  - NEW WATER LINE FOR FOUNTAIN AND DRINKING FOUNTAIN
  - NEW DRAIN LINE FOR FOUNTAIN AND DRINKING FOUNTAIN
  - EXISTING WATER METER LOCATIONS
  - EXISTING BACKFLOW PREVENTER

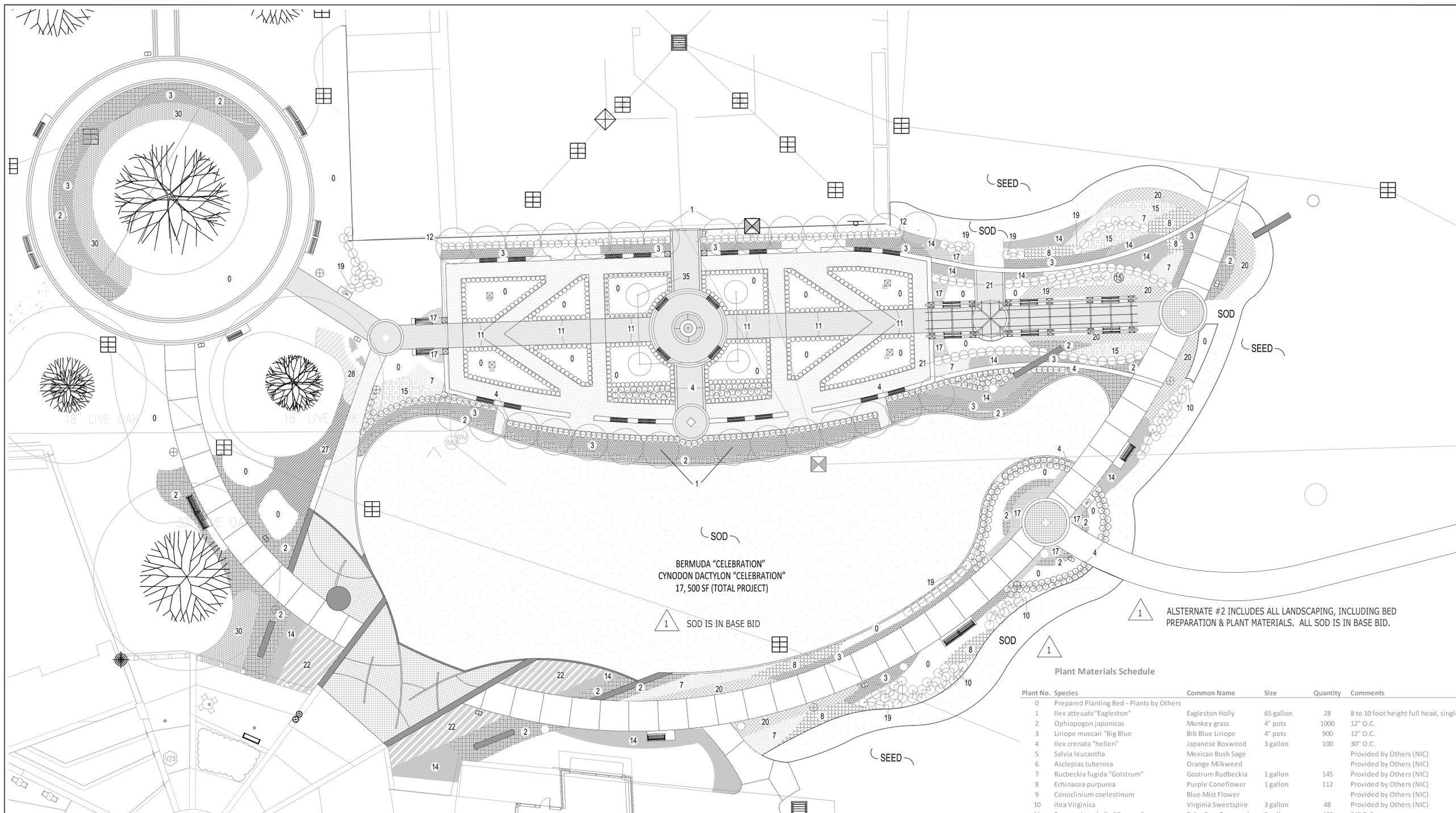


**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**  
 RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT  
**UTILITY SITE PLAN**  
 AUGUST, 2016

REVISIONS:  
 1 ADDENDUM #1 8-25-2016



PL-1.1



BERMUDA "CELEBRATION"  
CYNODON DACTYLON "CELEBRATION"  
17,500 SF (TOTAL PROJECT)

1 SOD IS IN BASE BID

1 ALTERNATE #2 INCLUDES ALL LANDSCAPING, INCLUDING BED PREPARATION & PLANT MATERIALS. ALL SOD IS IN BASE BID.

**Plant Materials Schedule**

Plant No.	Species	Common Name	Size	Quantity	Comments
0	Prepared Planting Bed - Plants by Others				
1	Ilex attenuate "Eagleston"	Eagleston Holly	65 gallon	28	8 to 10 foot height full head, single trunk
2	Ophiopogon japonicus	Monkey grass	4" pots	1000	12" O.C.
3	Liriope muscari "Big Blue"	Bib Blue Liriope	4" pots	900	12" O.C.
4	Ilex crenata "helleri"	Japanese Boxwood	3 gallon	100	30" O.C.
5	Salvia leucantha	Mexican Bush Sage			Provided by Others (NIC)
6	Asclepias tuberosa	Orange Milkweed			Provided by Others (NIC)
7	Rudbeckia fugida "Golstrum"	Gostrum Rudbeckia	1 gallon	145	Provided by Others (NIC)
8	Echinacea purpurea	Purple Coneflower	1 gallon	112	Provided by Others (NIC)
9	Conoclinium coelestinum	Blue Mist Flower			Provided by Others (NIC)
10	itea Virginia	Virginia Sweetspire	3 gallon	48	Provided by Others (NIC)
11	Buxus microphylla "Gregem"	Baby Gem Boxwood	3 gallon	400	24" O.C.
12	Podocarpus macrophyllus	Pringles Dwarf Yew	7 gallon	60	4 to 5 foot height, 30" O.C.
13	Odontonema strictum	Firespike			Provided by Others (NIC)
14	Agapanthus spp	Lily of the Nile	1 gallon	200	30" O.C.
15	Calagrostis acutiflora Karl Forester"	Feather Reed Grass	3 gallon	30	Provided by Others (NIC)
16	Agastache "Blue Fortune"	Blue Fortune Hyssop			Provided by Others (NIC)
17	Ophiopogon japonicus "nana"	Dwarf Mondo Grass	4" pots	400	9" O.C.
18	Dianthus spp.	Dianthus			Provided by Others (NIC)
19	Spiraea bumalda "Little Bonnie"	Little Bonnie Spiraea	3 gallon	56	Provided by Others (NIC)
20	Rosmarinus officinalis "Prostatius"	Creeping Rosemary	1 gallon	200	18" O.C.
21	Raphiolepis indica "Snow White"	Indian Hawthorn	3 gallon	60	36" O.C.
22	Muhlenbergia capillaris	Pink Muhly Grass	1 gallon	90	36" O.C.
23	Magnolia Virginiana	Sweetbay Magnolia			Provided by Others (NIC)
24	Buddleia davidii	Butterfly Bush			Provided by Others (NIC)
25	Eutrochium purpureum	Joe Pye Weed			Provided by Others (NIC)
26	Spigelia marilandica	Indian Pink			Provided by Others (NIC)
27	Cyrtomium falcatum	Holly Leaf Fern	1 gallon	95	Provided by Others (NIC)
28	Dryopteris spp.	Wood Fern	1 gallon	55	Provided by Others (NIC)
29	Crinum Spp.	Crinum Lily			Provided by Others (NIC)
30	Indigofera spp.	Indigofera	1 gallon	225	Provided by Others (NIC)
31	Gingers	Native Gingers			Provided by Others (NIC)
32	Hibiscus coccineus	Native Hibiscus			Provided by Others (NIC)
33	Rudbeckia laciniata	Green-hd Coneflower			Provided by Others (NIC)
34	Liatric spicata	Native Liatric			Provided by Others (NIC)
35	Fortunella margarita 'Nagami' Kumquat	'Nagami' Kumquat	30 gallon	4	FULL HEAD, SINGLE TRUNK

**KEY**

14 PLANTING SCHEDULE PLANT ID #

1  
P-1.1  
**PLANTING PLAN**  
SCALE = 1" = 16'-0"

**NOTE:**  
PLANT QUANTITIES ARE BASED ON LINEAR FEET AND SQUARE FOOTAGES. INDIVIDUAL PLANTS SHOWN ARE FOR GRAPHIC DISTINCTION ONLY AND DO NOT CORRELATE WITH QUANTITIES ON PLANT SCHEDULE.



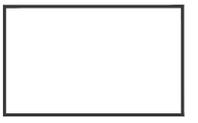
**INDEPENDENCE BOTANIC GARDEN - PHASE 1 IMPROVEMENTS**

RECREATION and PARK COMMISSION for the PARISH of EAST BATON ROUGE PARISH PLANNING & ENGINEERING DEPARTMENT

**PLANTING PLAN**

AUGUST, 2016

REVISIONS:  
1 ADDENDUM #1 8-25-2016



P-1.1