



ADDENDUM #1 to

REQUEST FOR BIDS

For

Resetting Granite Tree Pit Pavers

For

Great Rivers Greenway and National Park Service

SUBMITTAL DUE DATE:

Monday February 24, 2020

1:30 P.M. Central Standard Time

SUBMITTAL LOCATION:

Great Rivers Greenway
6178 Delmar Boulevard
St. Louis, MO 63112

Questions or information related to this request should be directed to:

Ben Grossman, Director of Greenway Operations

bgrossman@grgstl.org

BACKGROUND

The Metropolitan Park and Recreation District, doing business as The Great Rivers Greenway District ("the District"), is a multi-jurisdictional political subdivision including the City of St. Louis, St. Louis County and St. Charles County. The primary purpose of the District is to improve the quality of life throughout the St. Louis region by developing a public system of interconnected greenways, trails and parks.

Great Rivers Greenway is seeking sealed bids for resetting granite paver bands around tree planting pits in the Gateway Arch National Park, St. Louis, Missouri.

Addendum #1 – Included Add-alternate: resetting walkway pavers – See Page 3, #8.

Addendum #1 Issue Date: February 18, 2020

BID INSTRUCTIONS

1. A bid form (Form GRG 1) shall include, but not be limited to:
 - i. The name and address of the vendor.
 - ii. Unit Price and Total Price for pavers repairs
 - iii. Any deviation from the specifications
2. The vendor shall complete the attached Bid form (Form GRG 1). Blank forms shall not be accepted and the bid will not be evaluated. Questions regarding the specifications or bid process should be submitted for review and response by The District as early as possible in the bidding process. See Part D for submitting questions.
3. The Contract Award will be based on the lowest total price meeting specifications.
4. Questions regarding this bid are to be sent via email no later than Friday February 14, 2020 at 5:00 p.m. C.S.T. to Ben Grossman, Great Rivers Greenway Director of Greenway Operations: bgrossman@grgstl.org. Responses shall be issued no later than February 18, 2020 at 5:00 p.m. C.ST and posted on at <https://greatriversgreenway.org/jobs-bids/>
5. Bid Submittal due date is February 24, 2020 1:30 p.m. CST. No late submittals will be accepted.
6. Deliver one (1) hard paper copy proposal delivered via hand or mail. The District invites bids on the appropriate form attached hereto, all blanks of which must be filled. Bids will be received in the office of the District no later than the time and date indicated in the "Invitation to Bid," at which time the District will be publicly opened and read aloud. Any Bid received after above-stated closing time will not be accepted and will be returned unopened. Each bid must be submitted in a sealed opaque envelope, addressed to:

Ben Grossman, Director of Greenway Operations
Great Rivers Greenway
6178 Delmar Boulevard
St. Louis, Missouri 63112

Bid envelope shall be marked in upper left-hand corner with the name of firm submitting Bid, and in lower left-hand corner envelope shall be marked:

"SEALED BID for RESETTING TREE PIT PAVERS."

Bids shall be signed in ink. Prices must be expressed in words and figures. Any Bid which fails to name a price in both figures and writing may be deemed informal and may be rejected. In case of any discrepancy between the price written in the Bid and that given in figures, the lower price will be considered as the Bid.

Erasures or other changes in a Bid must be explained or noted over signature of Bidder. Bids containing any conditions, omissions, unexplained erasures or

alterations, or irregularities of any kind may be rejected as incomplete. GRG reserves the right to reject any and all Bids submitted.

7. General Description: To reset granite pavers around tree planting pits on the National Park Service Gateway Arch National Park in St. Louis, Missouri. Scope of work and diagrams are provided in **EXHIBITS A, B and C**.
8. ADDENDUM #1 – Add-alternate bid for resetting walkway pavers. Walkway pavers have settled to a lesser extent and the District will accept a unit price per linear foot to reset the walkway edge pavers per the same specifications listed for tree pit pavers.

IMPORTANT CONSIDERATIONS

Any contract awarded as a result of this bid will be awarded without discrimination on race, color, religion, age, sex, sexual orientation, or national origin.

The District reserves the right, at its sole discretion, to 1) reject any or all submittals when, in its opinion, it is determined to be in the public interest to do so, 2) waive minor informalities of a submittal, 3) cancel, revise, or extend this solicitation, 4) request additional information which the District deems necessary.

This Request for Bids does not obligate the District to pay any costs incurred by any respondent in the submission of a bid proposal or in making necessary studies or design for the preparation thereof, or for procuring or contracting for the services to be furnished under this request for bids. The District will give preference to firms located in the District (St. Louis City, St. Louis County and/or St. Charles County) and secondly, in the State of Missouri, when other considerations are equal.

MINORITY AND WOMEN BUSINESS ENTERPRISE POLICIES

It is the policy of the District that minority and women-owned businesses shall have the maximum opportunity to participate in the performances of contracts utilizing District funds. Minority and Women Business Enterprise goals of 25/5% have been established by the District, i.e. 25% of the total contract amount to be awarded to Minority Business Enterprises (MBE) and 5% of the total contract amount to be awarded to Women Business Enterprise (WBE). It is the prospective firm's responsibility to make a sufficient portion of the work available to sub-contractors to meet the goal, consistent with the availability and capacities of MBE and WBE firms. MBE/WBE firms included in the submittal, either as General Contractor or Sub-Contractors, must be certified by one or more of the follow agencies on or before the date of the submission of qualifications:

- Missouri Division of Purchasing and Materials Management
- City of St. Louis: Disadvantage Business Enterprise Program
- St. Louis Minority Business Council

Specifications (next page)

See **EXHIBIT A** for Scope of Work
See **EXHIBIT B** for Site Reference Plan
See **EXHIBIT C** for Processional Walk Tree Pit Details

Exception Sheet

If the item(s) and/or services proposed in the response to this bid is in any way different from that contained in this proposal or bid, the bidder is responsible to clearly identify all such differences in the space provided below. Otherwise, it will be assumed that the bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions or differences to the stated specifications (attach additional sheets as needed):

Date: _____

Signature: _____

Title: _____

Company: _____

Sub-Contractors

List sub-contractors which will be utilized in this project and the percentage of the contract that will be awarded to those contractors.

CONTRACTOR/FIRM

PERCENTAGE

GRG FORM 1
Resetting Granite Tree Pit Pavers

To: The Great Rivers Greenway District

I, _____ Representative (Signature)	_____ Print Name		
_____ Company Name	_____ Email/Phone Number		
_____ Address	_____ City	_____ State	_____ ZIP

Submits the following bid for this project:

	Unit Cost (\$)	Extended (\$)
Resetting tree pit pavers (432 qty)	_____	_____

***Add-Alternate**

Resetting walkway pavers per linear foot	_____	TBD
------------------------------------------	-------	-----

Additional Costs (if applicable, listed below):

_____	_____
_____	_____
_____	_____
_____	_____

Total Bid	_____
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***Per Addendum 1 – Add-Alternate Pricing for Walkway Pavers**

EXHIBIT A

Scope of Work

SCOPE OF SERVICES

The CONTRACTOR shall be responsible for restoring the granite paver bands around tree planting pits identified on Exhibit B. This includes removal and cleanup of the existing pavers, repairing the setting base, reinstallation of the pavers, and installation of polymeric joint sand.

EXPECTATIONS

It is the expectation of all parties that these National Park Service (NPS) facilities be restored to a manner that reflects a high-quality park environment for residents as well as visitors to the region. Installation approaches and techniques should reflect the desire and expectation that the considerable investments will remain in a high-quality condition through diligent efforts and an attention to detail. CONTRACTOR and staff shall conduct themselves in a professional manner at all times while performing the necessary tasks in this highly public area. CONTRACTOR shall wear uniforms clearly identifying them with the company name and vehicles clearly marked with name of CONTRACTOR. CONTRACTOR shall be able to respond to changes in park and facility use during various times of the year and modify their schedules as needed to perform the following scope of services effectively.

CONTRACTOR USE OF SITE

- A. General: Contractor shall have limited use of the site for operations.
Limit use of premises to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Limits: Defined by the LOW and Contract Area Limits as indicated.
 - 2. Limit site disturbance to extent indicated and described in the specifications
- B. Storage of Materials: Contractor shall prepare a site logistics drawing indicating areas for storage. Area shall be approved by the Contracting Officer prior to start of Work.
- C. Preservation of Natural Features:
 - 1. Prevent damage to natural surroundings. Those areas damaged by the contractor, contractor is responsible for restoring damaged areas, repairing or replacing damaged trees and plants, at no additional expense to the Government.
- D. Driveways and Entrances: Keep driveways, entrances and service areas serving premises clear and available to Government, Government's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - 1. Schedule deliveries to minimize use of driveways and entrances. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

2. See additional requirements for Driveways and Entrances in Article 1.9 "Site Security Requirements."
- E. Construction Camp: Establishment of a camp within the park will not be permitted.
- F. Hauling Restrictions: Comply with all legal load restrictions in the hauling of materials. Load restrictions on park roads are identical to the state load restrictions with such additional regulations as may be imposed by the Park Superintendent. Information regarding rules and regulations for vehicular traffic on park roads may be obtained from the Office of the Park Superintendent. A special permit will not relieve Contractor of liability for damage which may result from moving of equipment.
- G. TRRA Restrictions: A 25-foot offset from the center line of the railroad track shall designate the area in which TRRA safety requirements must be observed.
 1. When Contractor workers, equipment, or materials occupy the 25-foot offset a TRRA flagman must be present.
 - a. Contractors must schedule with TRRA for a flagman to be present. Schedule must be confirmed with TRRA by the Wednesday of the week prior to work being performed.
 - b. A flag man is required for each rail cut where work is being performed.
 - c. Cost of the flag man shall be paid by the Contractor. The minimum schedule block shall be 8 hours or as determined by TRRA.
 2. All Contractors and sub-contractors working within the TRRA 25-foot offset area shall be e-RAILSAFE certified.

1.7 PUBLIC USE OF SITE

- A. Contractor shall at all times conduct their operations to ensure the least inconvenience to the public. Road and path closures not within the Limit of Work, but within NPS property may be permitted, when required, upon specific approval of Contracting Officer for a maximum amount of time as deemed appropriate by the Contracting Officer.
- B. The Contractor will coordinate the sequence and timing of the work as directed by the Contracting Officer to maintain safe passage to the Arch Visitor Center for visitors. Such areas include but are not limited to the paved areas at the top and bottom of the Grand Staircase.

1.8 WORK RESTRICTIONS

- A. On Site Work Hours: Work shall be generally performed during normal business working hours of 6:00 a.m. to 4:30 p.m., Monday through Friday, except when otherwise indicated.
 1. No work is permitted on any federal holiday.
 2. No work is permitted during set-up and take-down of Fair St. Louis. Fair St. Louis special event will take place for 2-3 weeks around July 4, 2020. Work schedule to be coordinated with NPS staff during this time frame.

B. Existing Utilities

1. Existing Utilities: Notify Contracting Officer of proposed locations and times for excavation.
 - a. All utilities on National Park Service ground are the responsibility of the National Park Service, there are no public utilities to be marked through Missouri One Call. All sub grade work to be coordinated with National Park Service Staff prior to excavation.
2. Contractor shall be responsible for locating and preventing damage to known utilities. If damage occurs, repair utility at no additional expense to the Government. NPS to mark private utilities, including irrigation valve boxes and sprinkler heads in the work zone prior to work commencing.
3. Contractor is not responsible for damage to unknown utilities in the project area that are a result of not being marked by NPS. If damage occurs during the project, notification to NPS and GRG to be made immediately.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Government or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Contracting Officer not less than three (3) days in advance of proposed utility interruptions. Interruption shall not occur during regular visitor hours. Duration of interruption shall not exceed three (3) hours unless agreed to by NPS and the Contracting Officer.
2. Do not proceed with utility interruptions without Contracting Officer's written permission.
3. Hours for Utility Shutdowns: Utility Shutdowns shall be scheduled at least two (2) weeks in advance. Shutdown shall not occur during regular visiting hours. Duration of shutdown shall be determined by the Contracting Officer at the time of request.

D. Smoking Regulations: Smoking will not be permitted within the Limit of Work or within 50 feet of a building entrance or accessible route into the park.

E. Work Restrictions Related to Noise: See St. Louis, Missouri, Code of Ordinances, Title 15 and any other City Zoning requirements pertaining to noise on construction sites.

1.9 SITE SECURITY REQUIREMENTS

A. The Contractor shall maintain continuity of the K-8 safety perimeter within the project area at all times during construction.

B. Deliveries

1. All deliveries shall be scheduled with a minimum of one day advance notice. The Contractor shall prepare and provide to the National Park Service Law Enforcement

Rangers a daily list of the expected deliveries, including the name, Driver's License Number and Social Security Number of persons in the vehicle. Deliveries or persons not indicated on the list will be turned away.

- a. All vehicles and contents may be inspected.
 - b. All persons entering the site will have been checked against the National Crime Information Center database.
 - c. Canine sweeps will occur at random.
2. Delivery hours are between 6:00 AM and 4:30 PM, Monday through Friday.
 3. Delays in deliveries or construction resulting from the Contractor's failure to properly adhere to these procedures will not be grounds for any adjustment in contract time or price.
- C. Security Review: Prior to entry into the site, the Contractor shall submit the Name, Social Security Number, Date of Birth, Place of Birth, Address, and Valid Driver's License of each employee performing work under this contract to the Contracting Officer, and shall have the employees fill out questionnaires and other forms required for security. The license plate of any vehicle entering the site will also need to be submitted and approved by the National Park Service Law Enforcement.
1. Identification Badge: All work personnel will be required to wear a Government-issued identification badge at all times when on site regardless of duration of work. Personnel who will be at the site one or two times for the duration of the project do not require an identification badge or background check, however, they shall be logged into the security guard's logbook and be escorted by the Contracting Officer while on site. More than two visits by any personnel shall require a background check and identification badge.
 - a. Identification badges may take up to 24 hours to issue. Delays in work due to Contractor personnel not having the required Government-issued identification badge shall be at no cost to the Government.
- D. Neither the Contractor nor any of his employees shall disclose or cause to be disseminated any information concerning the operations or the activity which could result in or increase the likelihood of the possibility of the breach of the activity's security or interrupt the continuity of its operations. Disclosure of information to any person not entitled to receive it, or failure to safeguard any confidential information that may come to the Contractor or any person under his control, may subject the Contractor, his agents or employees, to criminal liability. All inquiries, comments or complaints arising from any matter observed, experienced, or learned as a result of or in connection with the performance of this contract, the resolution of which may require the dissemination of official information, shall be directed to the Contracting Officer. Deviations from or violations of any of the provisions of this paragraph will, in addition to all other criminal and civil remedies provided by law, subject the Contractor to immediate termination for default, and the individuals involved to a withdrawal of the Government's acceptance and approval of employment.
- E. Personnel may be subject to inspection of their personal effects when entering and leaving the facility. In addition, unscheduled inspection of personnel may be made on site.
- F. Notify the government when personnel are no longer employed by the contractor or subcontractor. Include in the notification the individual's full

name, DOB and SSN, and company employing the individual.

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JOB SPECIAL PROVISIONS –PAVER REPAIR

(Job Special Provisions shall prevail over General Provisions whenever in conflict therewith.)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract.

1.2 SUMMARY

- A. Section Includes:
 - 1. Stone pavers set in aggregate setting beds.
 - 2. Existing salvaged and reused edge restraints.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct Conference at Project Site.

1.4 ACTION SUBMITTALS

- A. Product Data: For materials other than water.
- B. Product Data: For the following:
 - 1. Setting base aggregate.
 - 2. Polymeric joint sand.
- C. Sieve Analyses: For aggregate setting-bed materials, according to ASTM C 136.
- D. Samples for Verification: Include Samples of the following:
 - 1. Joint materials.
 - 2. Setting base aggregate.

1.5 QUALITY ASSURANCE

- A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store pavers on elevated platforms.
- B. Store polymeric joint sand materials on elevated platforms, under cover, and in a dry location. Do not use polymeric joint sand materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained, and contamination avoided.

1.7 FIELD CONDITIONS

- A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.
- B. Wet-Weather Protection: Do not use wet or saturated materials. Do not build on muddy or saturated ground that will result in excessive compaction or damage to subgrade and planting soils within or adjacent to tree planting pits.
- C. Existing Tree Protection: Protect existing tree trunks, branches and roots from damage and abrasions during construction activities. Do not cut tree roots encountered during construction. Notify Contracting Officer immediately of tree roots in conflict with performing the work under this contract.

PART 2 - PRODUCTS

2.1 STONE PAVERS

- A. Granite Pavers: Existing on-site granite pavers, in place or previously removed and stored by Park for reuse by Contractor.

2.2 CURBS AND EDGE RESTRAINTS

- A. Existing edge restraints salvaged and reinstalled.
- B. Aluminum Edge Restraints: Permaloc AsphaltEdge, Aluminum Asphalt Restraint, as manufactured by Permaloc Corporation, Holland MI 49424, telephone (800) 356-9660 or (616) 399-9600, or approved equal.

2.3 AGGREGATE SETTING-BED MATERIALS

- A. Sand for Setting Bed: Clean sand, non-plastic, free from deleterious or foreign matter, natural or manufactured from crushed rock or gravel. Do not use limestone screenings or stone dust. Concrete sand conforming to ASTM C-33

- 1. Gradation:

Screen size	Percentage of passing
10 mm	100
5 mm	95 to 100
2.5 mm	80 to 100
1.25 mm	50 to 90
0.630 mm	25 to 65
0.315 mm	10 to 35

2.4 POLYMERIC SAND

- A. A pre-bagged manufactured sand with synthetic polymer binder, composed of 100% granite material only, free of clay lumps, organic matter or any harmful substance.
 - 1. Color: Match existing joint sand.
 - 2. Manufacturers:
 - a. Unilock, tel: 800.864.5625, www.unilock.com
 - b. Sakrete tel: 866.725.7383, www.sakrete.com
 - c. Or approved equal

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Pre-installation examination required: The contractor shall examine previous work, related work, and conditions under which this work is to be performed and notify Contracting Officer in writing of all deficiencies and conditions detrimental to the proper completion of this work. Beginning work means Contractor accepts previous work and conditions.

3.2 PREPARATION

- A. Remove existing pavers from planting pits taking care not to damage existing tree roots that may be present next to or beneath pavers.
- B. Clean pavers of soil, joint sand, and other debris and store on an elevated platform until reinstallation.
- C. Remove debris and contamination from existing paver base material after removal of pavers and legally dispose of offsite.
- D. Remove existing paver edge restraint, clean, and store on an elevated platform until reinstallation.

3.3 INSTALLATION, GENERAL

- A. Joint Pattern: Match and continue existing unit paver joint pattern.
- B. Tolerances:
 - 1. Variation in Line: Do not exceed 1/8" in 8'-0".
 - 2. Variation in Joint Width: Max 1/16"
 - 3. Variation in Surface Plane: Do not exceed 1/8" in 10'-0" from level or slope indicated.
 - 4. Variation in plane between adjacent units (lippage), Max: 1/32".
- C. Provide edge restraints as indicated. Install edge restraints before placing unit pavers.
 - 1. Edging Installation: Install base of edging resting on compacted crushed stone and facing towards and under paver, drive 3/8" x 18" bright spiral steel spikes through edging holes in base of paver restraint.
 - 2. Anchor each section end with spike, 4 inches on center.
 - 3. Securely connect sections together in accordance with manufacturer's instructions.

3.4 INSTALLATION – PAVERS ON SAND SETTING BED

- A. Place one half of required base sand and hand tamp into subbase to achieve a stable base for placing setting course.
- B. Place remaining setting course sand and screed to a thickness required to meet adjacent grades once pavers are placed and compacted. Take care that moisture content remains constant and density is uniform until pavers are set and compacted.

- C. Set pavers to match existing pattern.
- D. Set pavers with a joint width as shown in the Drawings being careful not to disturb leveling base. Use string lines to keep straight lines.
- E. Vibrate pavers and cobble into leveling course with a low-amplitude plate vibrator capable of a 3500- to 5000-lb/ft compaction force at 80 to 90 Hz. Use vibrator with neoprene mat on face of plate or other means as needed to prevent cracking and chipping of pavers and cobble. Perform at least three passes across paving with vibrator.
 - 1. Compact pavers and cobble when there is sufficient surface to accommodate operation of vibrator, leaving at least 36 inches of uncompacted pavers and cobble adjacent to temporary edges.
 - 2. Before ending each day's work, compact installed pavers and cobble except for 36-inch width of uncompacted pavers and cobble adjacent to temporary edges (laying faces).
 - 3. As work progresses to perimeter of installation, compact installed pavers and cobble that are adjacent to permanent edges unless they are within 36 inches of laying face.
 - 4. Before ending each day's work and when rain interrupts work, cover pavers and cobble that have not been compacted and cover setting bed on which pavers and cobble have not been placed with non-staining plastic sheets to protect them from rain.

3.5 JOINT TREATMENTS

- A. Polymeric Sand Joint: Fully clean all paving surfaces of staining and markings.
 - 1. Paving surface must be completely dry. Check weather reports and confirm a 0% chance of rain during installation and for 48 hours following installation.
 - 2. Fill joints the full height of the paver with polymeric sand joint filler. Settle the joint filler and refill to the full height. The Contractor shall clean all polymeric sand from pavement surfaces so that surface is completely free of polymeric sand. Polymeric sand left to remain on the pavers can cause staining of the paver surface and shall not be accepted.
 - 3. Mist the surface according to the manufacturer's instructions.
 - 4. Pavement shall be allowed to fully dry following misting.

PART 4 - METHOD OF MEASUREMENT

- 4.1 Paver repair shall be measured by each "tree pit" and shall include all labor, equipment, incidentals, materials, etc. necessary for installation.
- 4.2 "Walkway edge" paving bands repair shall be measured by linear foot and shall include all labor, equipment, incidentals, materials, etc. necessary for installation.

PART 5 - METHOD OF PAYMENT

LIMITS OF WORK/PROJECT AREA



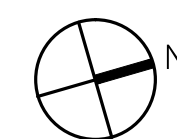
Typical Existing Condition







NOT FOR CONSTRUCTION
CONFIDENTIAL PROPRIETARY INFORMATION



SHEET #

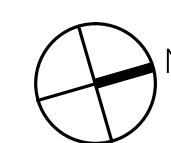
SITE REFERENCE GRID

CITY ARCH RIVER 2015 PROJECT
JEFFERSON NATIONAL EXPANSION MEMORIAL

SHEET
2 OF 3

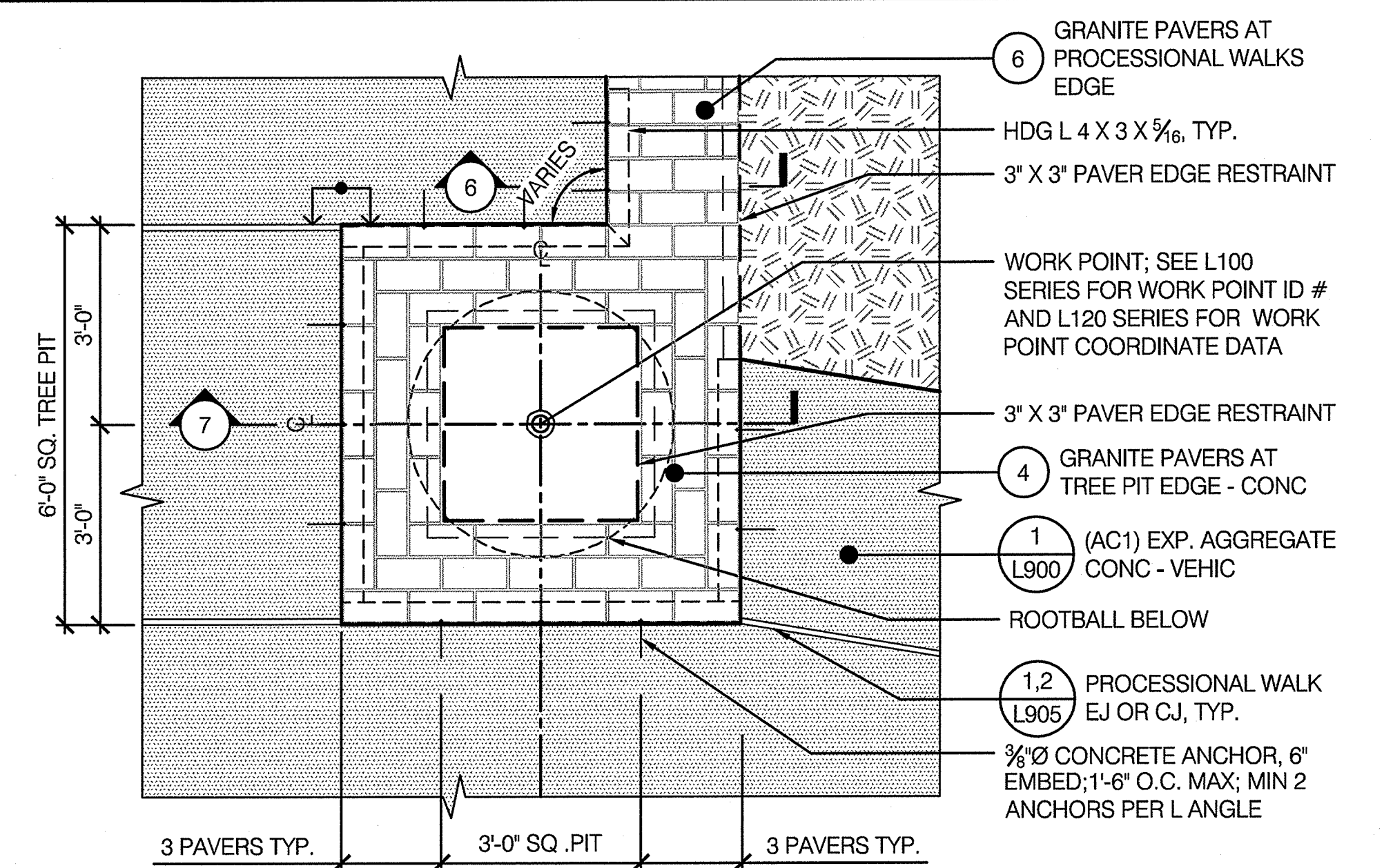
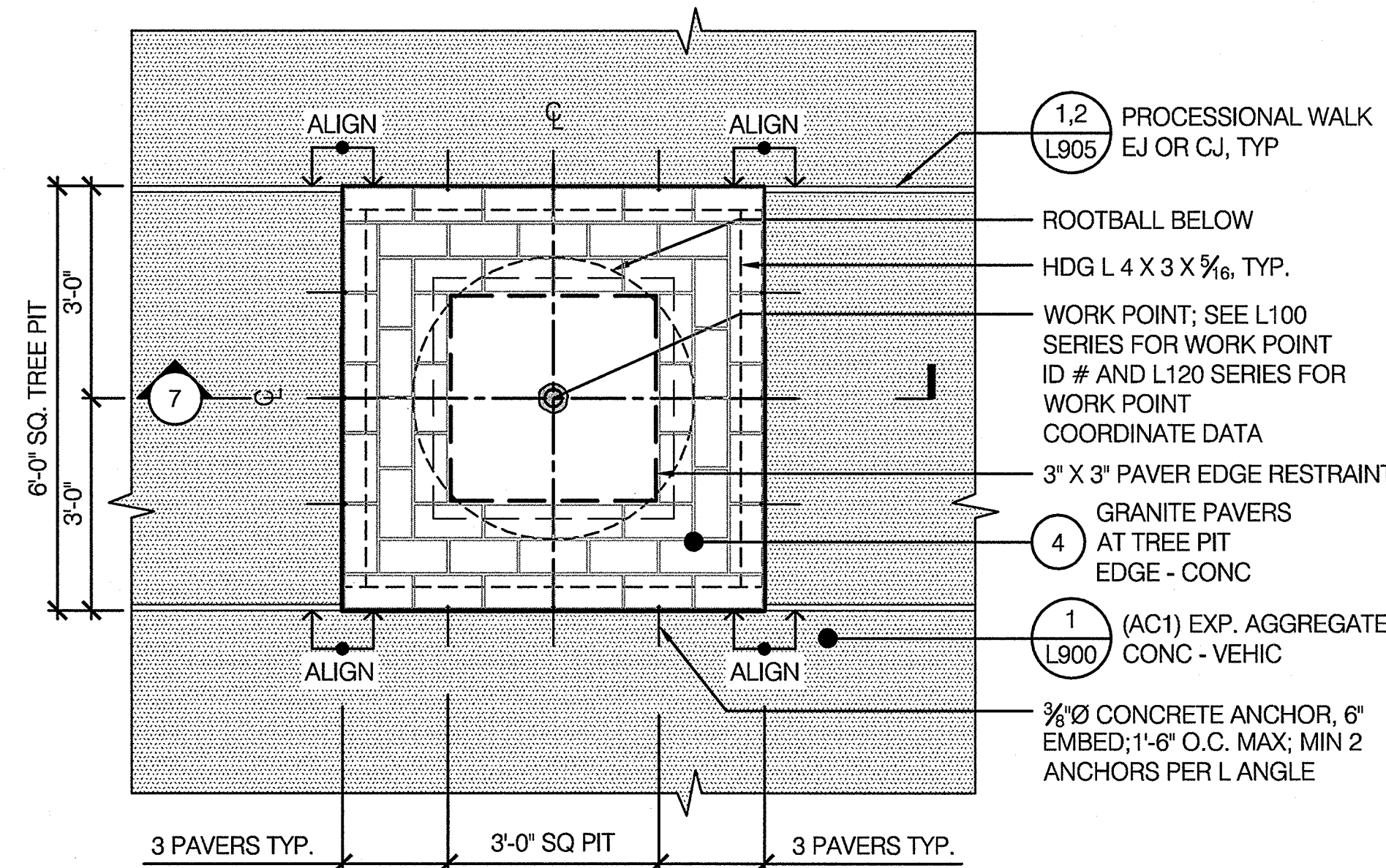
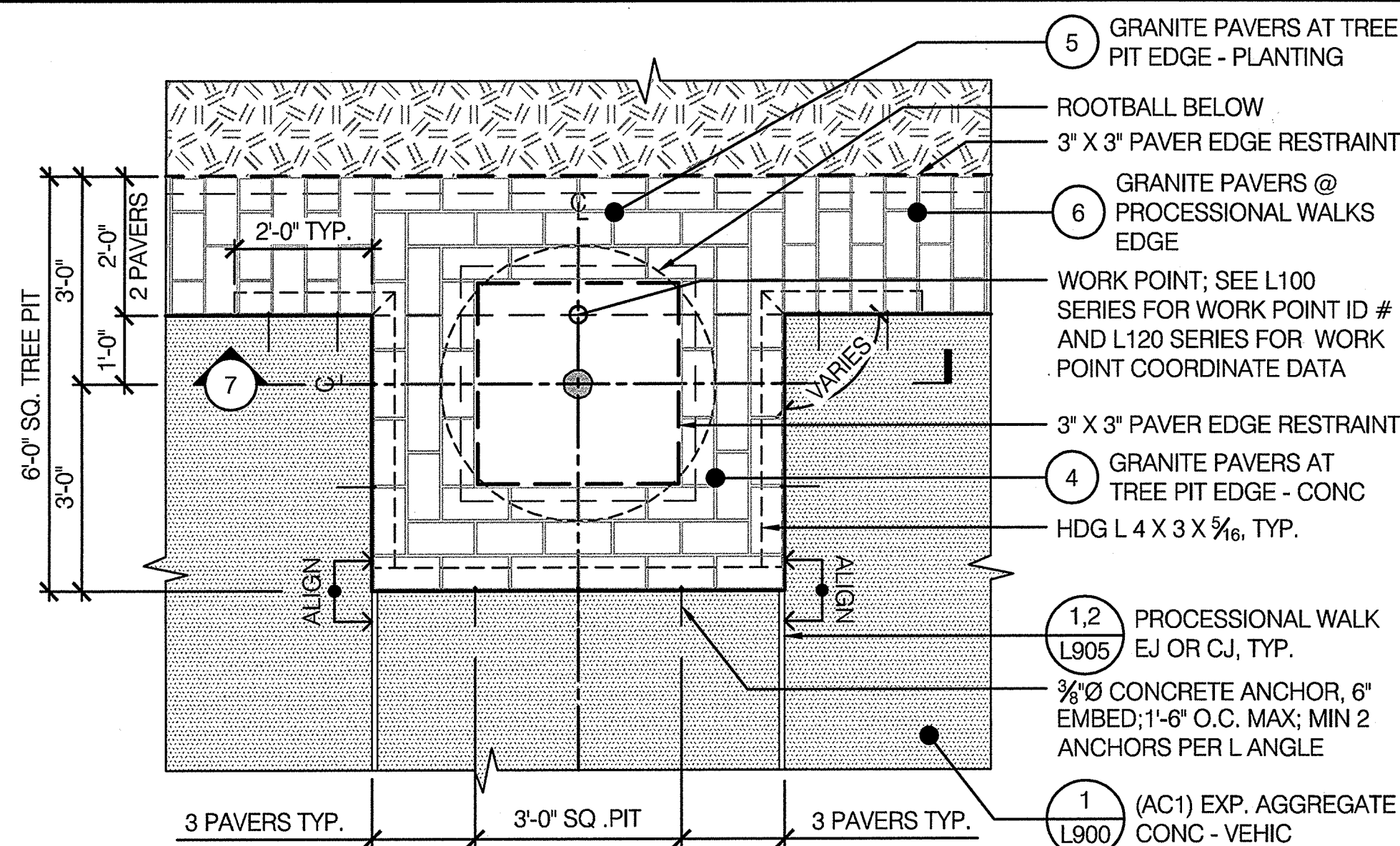
NOT FOR CONSTRUCTION
CONFIDENTIAL PROPRIETARY INFORMATION

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SHEET #	TITLE OF SHEET	DATE
REF07	SITE REFERENCE GRID	05/08/2015
	CITY ARCH RIVER 2015 PROJECT JEFFERSON NATIONAL EXPANSION MEMORIAL	SHEET 3 OF 3

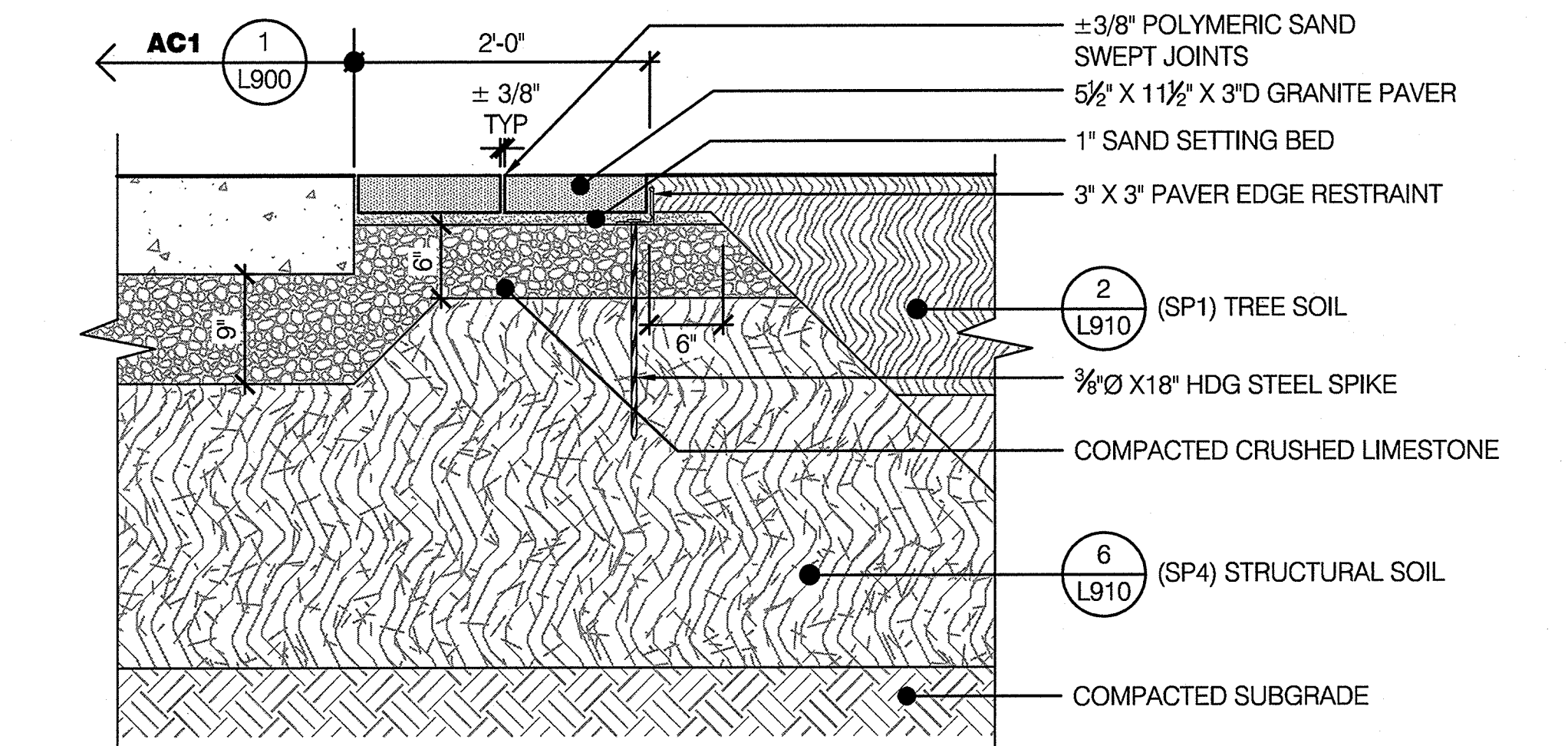
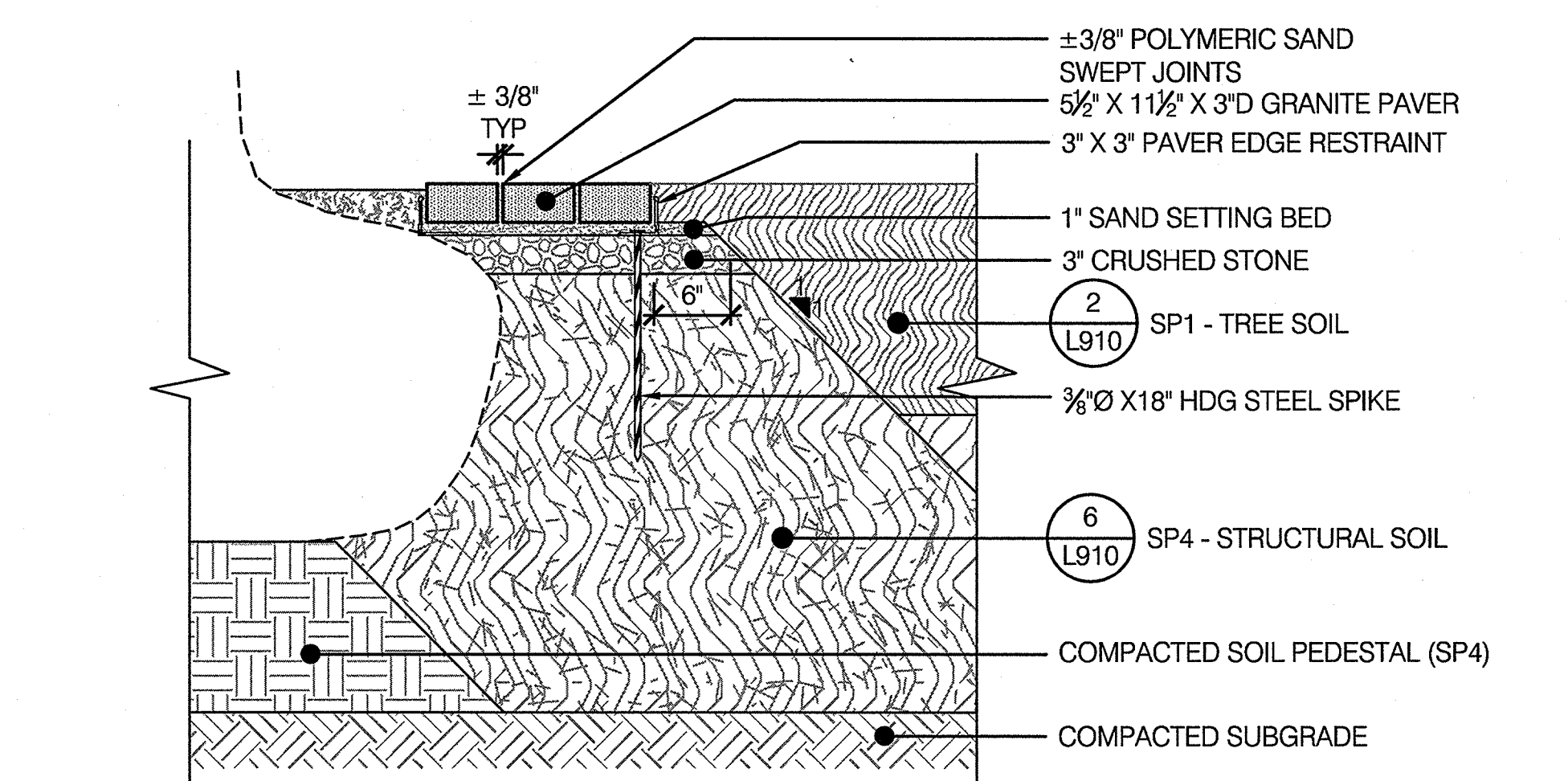
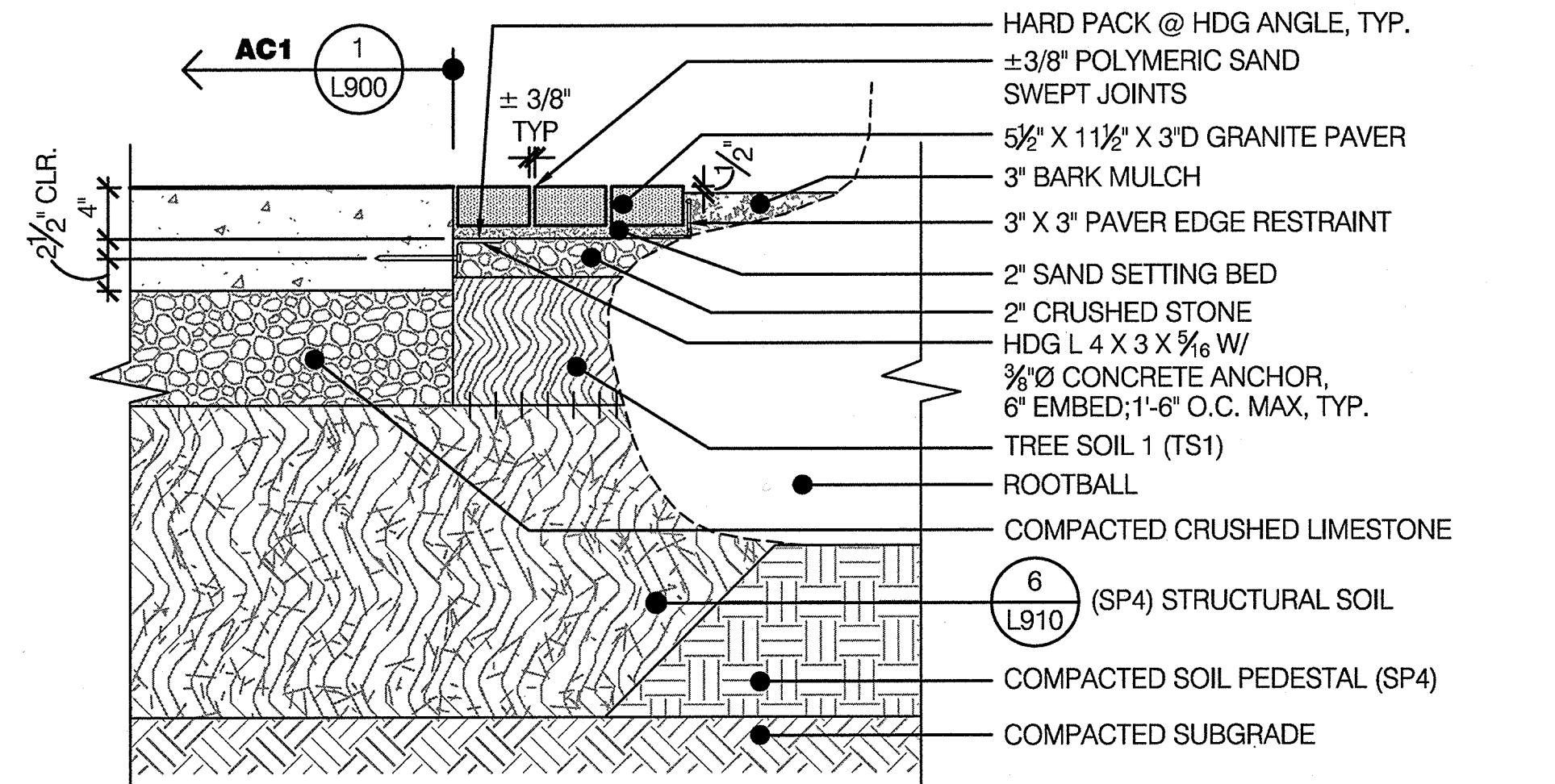
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1 EDGE TREE PIT, TYP. PLAN SCALE (A) C# 1, 2, 3

2 INTERNAL TREE PIT, TYP. PLAN SCALE (A) C# 2, 3

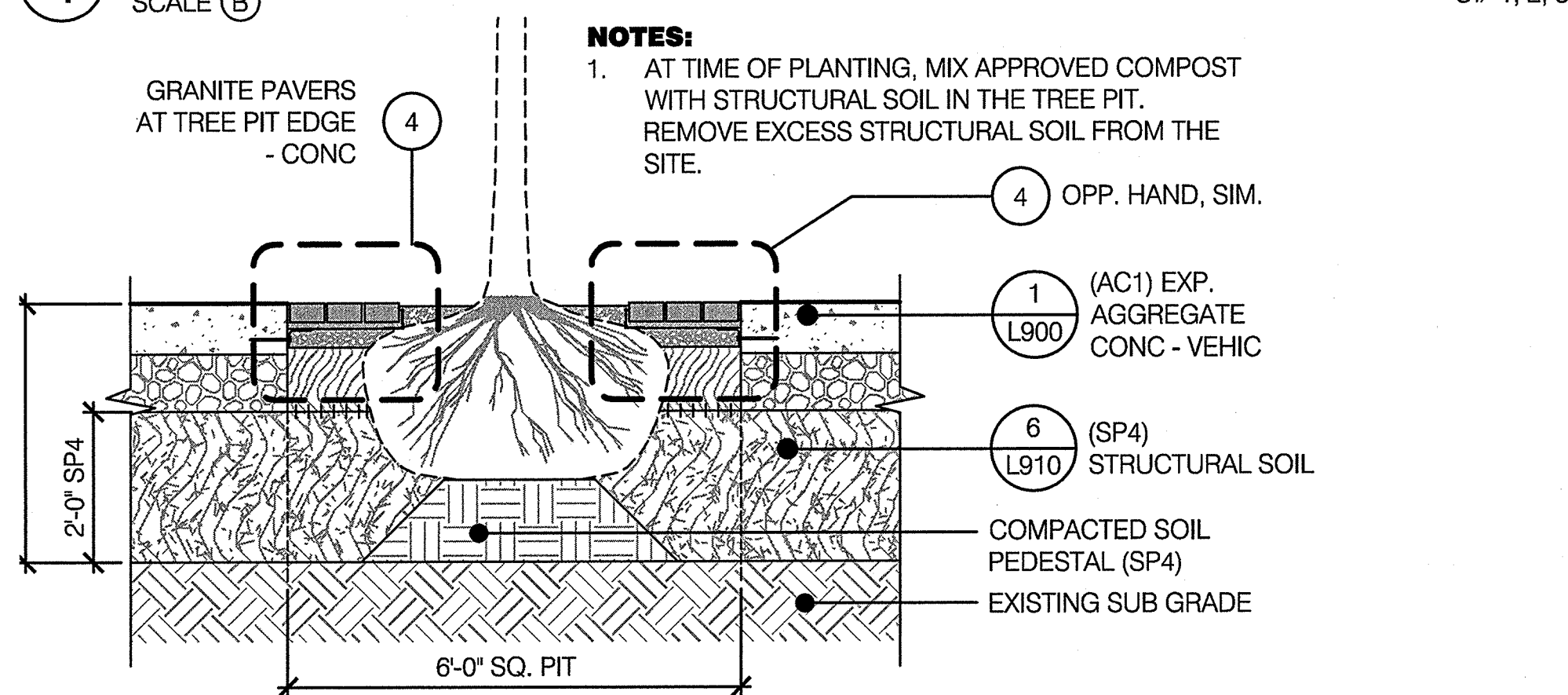
3 CORNER TREE PIT, TYP. PLAN SCALE (A) C# 2, 3



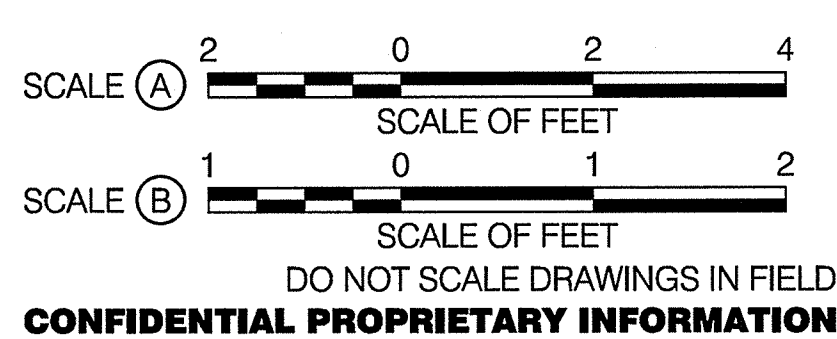
4 GRANITE PAVERS @ TREE PIT EDGE - CONC SECTION SCALE (B) C# 1, 2, 3

5 GRANITE PAVERS @ TREE PIT EDGE - PLANTING SECTION SCALE (B) C# 1, 2, 3

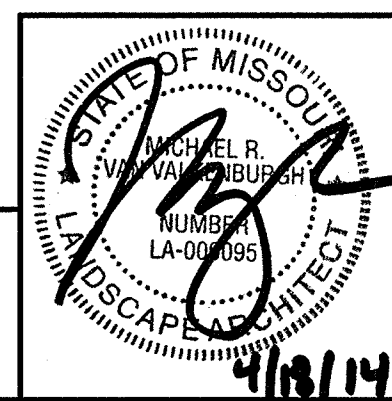
6 GRANITE PAVERS @ PROCESSIONAL WALKS EDGE SECTION SCALE (B) C# 1, 2, 3



7 TREE PIT SECTION SCALE (A) C# 1, 2, 3



CONTRACT #2



CONSTRUCTION DOCUMENTS				DESIGNED	SUB SHEET #	TITLE OF SHEET	DRAWING NO.
PRIME/LANDSCAPE ARCHITECT: MICHAEL VAN VALKENBURGH ASSOCIATES, INC.	STORMWATER CIVIL ENGINEER: MICHAEL VAN VALKENBURGH CIVIL DESIGN, INC.	ELECTRICAL DESIGNER: KJWW ENGINEERING	LIGHTING DESIGNER: RANDY BURKETT LIGHTING DESIGN, INC.	MVA	L906	PROCESSIONAL WALK TREE PIT DETAILS CITY ARCH RIVER 2015 PROJECT JEFFERSON NATIONAL EXPANSION MEMORIAL	366
				ADD MVA			115912
WATER DISTRIBUTION & ROADWAY CIVIL / STRUCTURAL ENGINEER: DAVID MASON & ASSOCIATES	IRRIGATION DESIGNER: LANDTECH DESIGN	SITE SURVEYOR: ENGINEERING DESIGN SOURCE, INC.	GEOTECHNICAL ENGINEER: GEOTECHNOLOGY, INC.	TECH REVIEW MVA			PMIS/PKG NO. 181202
				DATE 3/18/2014			SHEET 179 OF 203