



CAMBRIDGE
REDEVELOPMENT
AUTHORITY

To: All Prospective Bidders
Cambridge Redevelopment Authority
GRAND JUNCTION PATH AND PEDESTRIAN IMPROVEMENTS
ALONG GALILEO GALILEI WAY – CONTRACT 16
Cambridge, MA

From: Rick Azzalina – Fay, Spofford & Thorndike

Re: Addendum No. 1

Date: June 30, 2015

The attention of Bidders submitting proposals for CAMBRIDGE Redevelopment Authority – GRAND JUNCTION PATH AND PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY – CONTRACT 16 is called to the following ADDENDUM No. 1 to the **BID PROPOSAL** documents (booklets and drawings). The revisions set forth herein, whether an omission, addition or substitution, are to be included in and form a part of the **BID PROPOSAL** submitted. Bidders are instructed to replace original bid documents with revised or additional documents as instructed below. Bidders shall acknowledge receipt of any and all addenda in the appropriate space provided in the BID FORM.

The **BID PROPOSAL** documents have been revised as follows:

PLAN REVISIONS:

Item 1: Sheet No. C-5, TYPICAL SECTION – CEMENT CONCRETE SIDEWALK:
Change “PROP. GRANITE CURB TYPE VB OR REMOVE AND RESET EXISTING CURB” to “PROP. GRANITE CURB TYPE VA4 OR REMOVE AND RESET EXISTING CURB.”

CONTRACT AND SPECIFICATIONS:

Item 2: Delete the Schedule of Prices (Attachment to Bid Form) of the **Contract and Specifications** in its entirety, and insert Revised Schedule of Prices attached to this Addendum No. 1. “Item 650.148 – 48 Inch Chain Link Gate with Gate Posts (PTR) Black Vinyl Coated with Padlock” has been added to the revised Schedule of Prices. “Item 482.41 Sawcutting Concrete Sidewalk” has been

deleted from the revised Schedule of Prices. The description of "Item 701.10 6 Inch Cement Concrete Sidewalk" has been changed to "Item 701.10 Cement Concrete Sidewalk."

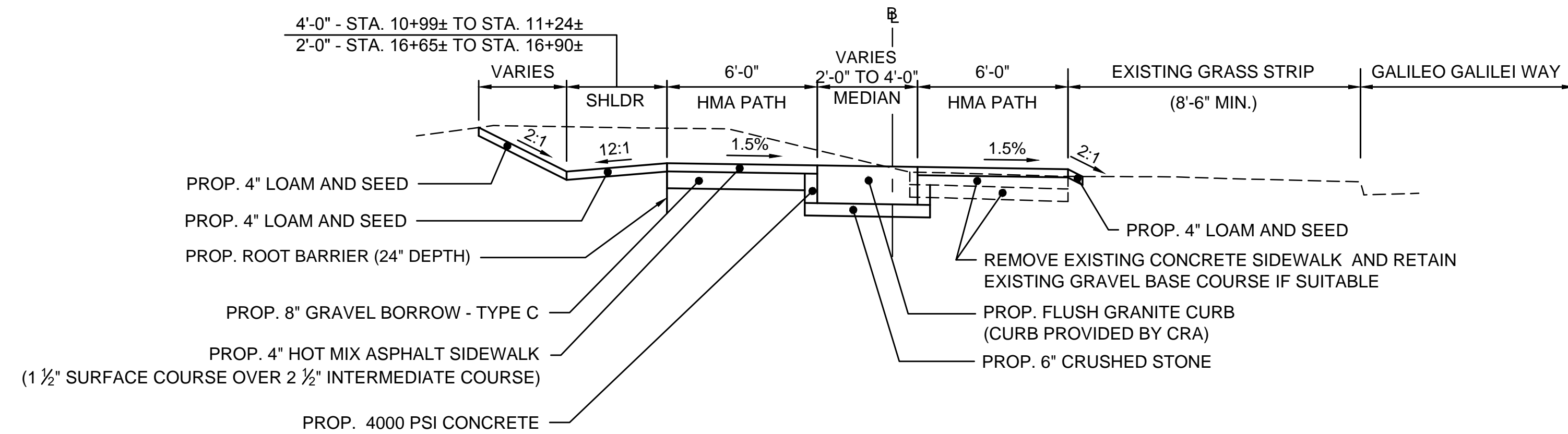
- Item 3: Delete Technical Specification for "Item 390. – Irrigation System Removed and Reset & New Irrigation Controller" in its entirety and insert revised Technical Specification for "Item 390. – Irrigation System Removed and Reset & New Irrigation Controller" attached to this Addendum No. 1.
- Item 4: Delete Technical Specification for "Item 645.148 – 48 Inch Chain Link Fence (PTR) Black Vinyl Coated (LPO)" in its entirety and insert revised Technical Specification for "Item 645.148 – 48 Inch Chain Link Fence (PTR) Black Vinyl Coated (LPO) attached to this Addendum No. 1.
- Item 5: Add Technical Specification for "Item 707.8 – Steel Bollard". See Pages 00900-053A and 00900-53B attached to this Addendum No. 1.
- Item 6: Delete Technical Specification for "Item 826.55 – Fire Alarm Cabinet Foundation" in its entirety and insert revised Technical Specification for "Item 826.55 – Fire Alarm Cabinet Foundation" attached to this Addendum No. 1.

PRE-BID CONFERENCE:

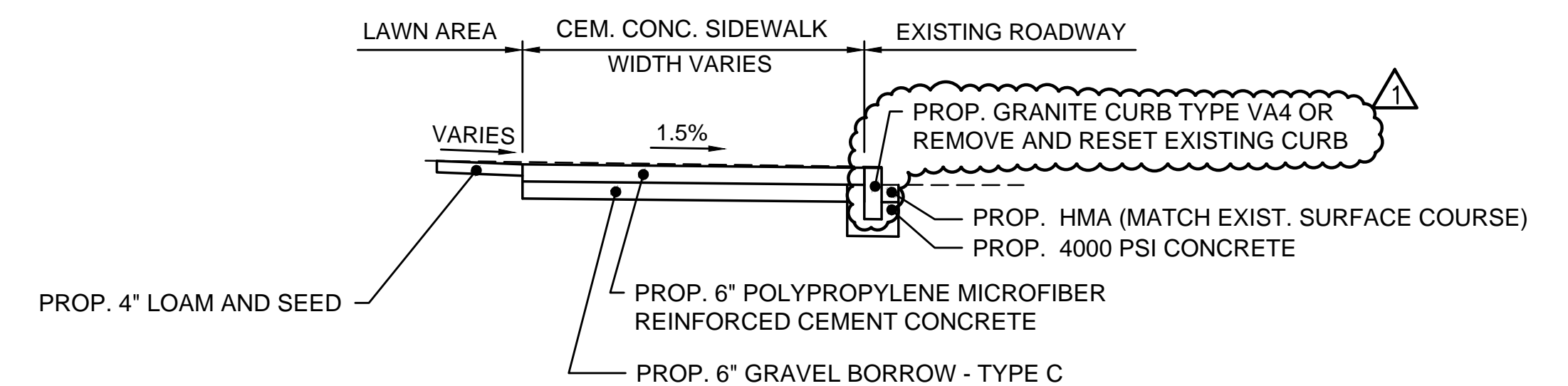
The following is information that was provided to prospective bidders at the pre-bid conference held on June 24, 2015 at 2:00 PM at the Cambridge Public Works Department Conference Room, 147 Hampshire Street, Cambridge, MA 02139:

- Item 7: The Contractor is allowed to store equipment and stockpile materials within the project area between Main Street and Broadway on the west side of Galileo Galilei Way. A lot owned by the Cambridge Redevelopment Authority located between Broadway and Binney Street on the west side of Galileo Galilei Way (see attached map) can also be used by the Contractor for storing equipment and stockpiling materials. Any soils to be stockpiled must be tested for contamination prior to storing on site.
- Item 8: Pre-bid meeting minutes and attendance list is attached.

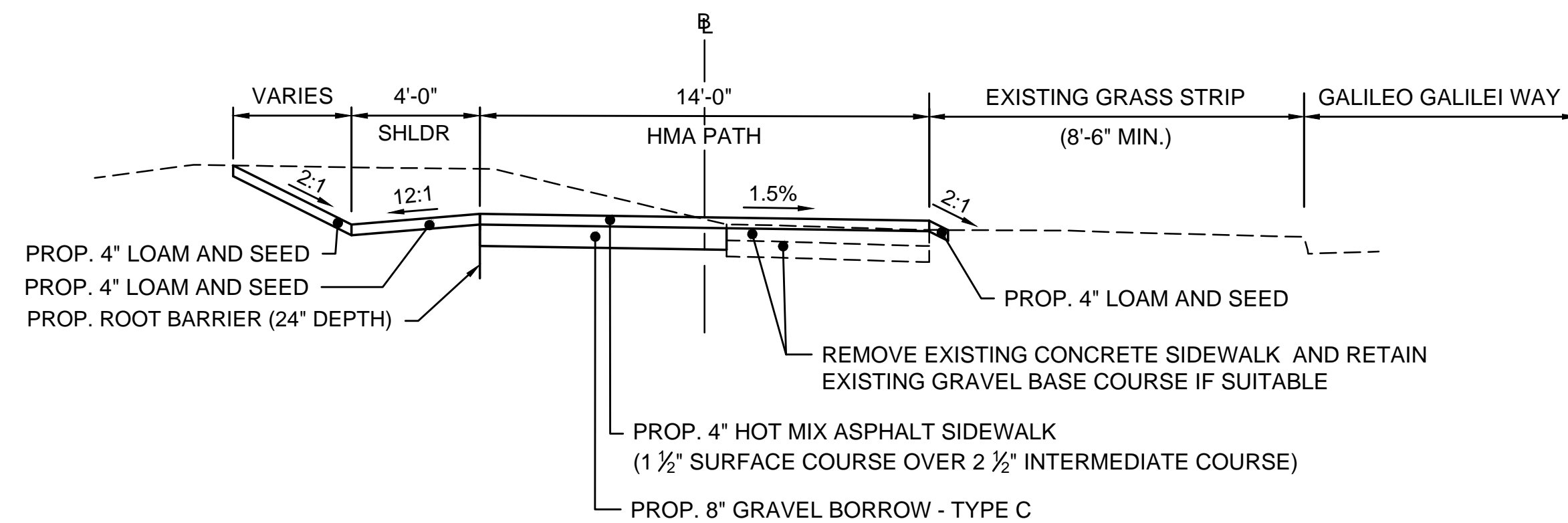
End of Addendum No. 1



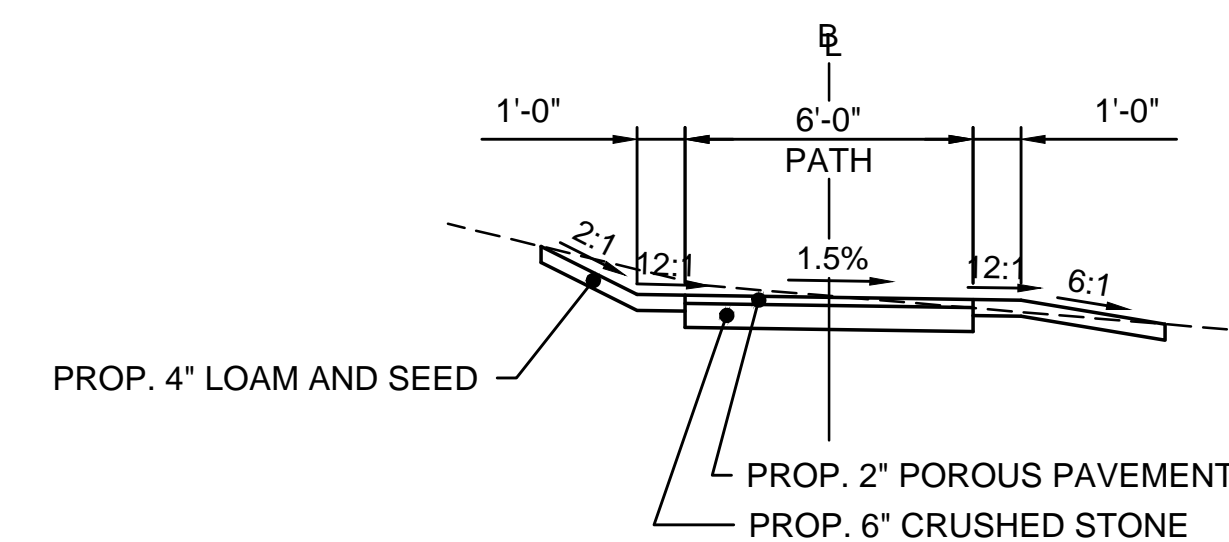
TYPICAL SECTION – HMA PATH WITH 4' WIDE FLUSH MEDIAN
 STA. 10+69± TO STA. 11+40±
 STA. 16+49± TO STA. 16+87±
 SCALE: 1" = 4'



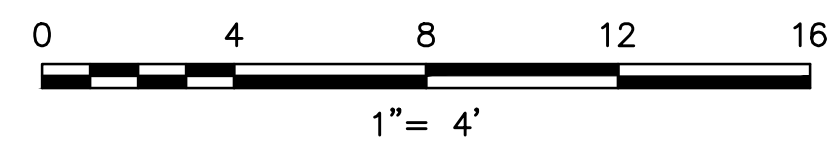
TYPICAL SECTION – CEMENT CONCRETE SIDEWALK
 STA. 10+00± TO STA. 10+69±
 STA. 16+89± TO STA. 17+49±
 SCALE: 1" = 4'



TYPICAL SECTION – 12' WIDE HMA PATH
 STA. 11+40± TO STA. 16+49±
 SCALE: 1" = 4'



TYPICAL SECTION – POROUS PAVEMENT WALK
 STA. 0+11± TO STA. 2+60±
 SCALE: 1" = 4'



FAY, SPOFFORD & THORNDIKE
 ENGINEERS · PLANNERS · SCIENTISTS
 5 BURLINGTON WOODS, BURLINGTON, MA 01803

Scale	AS NOTED			
Date	MAY 19, 2015			
Job No.	----			
Designed by	SEA			
Drawn by	FLC	1	ADDENDUM #1 - REVISED CURB TYPE	6/30/15
Checked by	JMM	No.	Description	Date
Approved by	RAA		REVISIONS	



Client	CAMBRIDGE REDEVELOPMENT AUTHORITY
Project	GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS
Drawing Title	TYPICAL SECTIONS

Drawing	C-5
Sheet	7 of 26

FORM FOR GENERAL BID

To the Awarding Authority:

A. The undersigned proposes to furnish all labor and materials required for

**GRAND JUNCTION PATH & PEDESTRIAN
ALONG GALILEO GALILEI WAY**

CAMBRIDGE, MA

in accordance with the accompanying plans and specifications including all Labor and Materials, for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. **BID SUBMISSION REQUIREMENTS**

C. This bid includes addenda numbered _____

D. There is 1 Bid Alternates. The basis of the award will be on price bid for the Base Bid.

The proposed contract price for the BASE BID

is _____ DOLLARS
(Amount in Words)

(\$ _____)
(Amount in Figures)

The proposed contract price for the Alternate #1

is _____ DOLLARS
(Amount in Words)

(\$ _____)
(Amount in Figures)

E. The subdivision of the proposed contract price is as follows: (All quantities are approximate)

Items 125.1 through 126.3 contain the minimum unit prices. The Contractor shall add to this value an adjustment to provide the final unit price bid for the respective item. The final unit price bid shall be the sum of the minimum unit price and the bidders inputted value. Insertion of 0 is allowable. In that case, the final unit cost will be the minimum unit cost.

Bidder's Name _____

- F. The undersigned agrees if selected as General Contractor, within seven working days after presentation thereof by the Cambridge Redevelopment Authority (“CRA”), the Contractor will:
1. execute a contract in accordance with the terms of this general bid;
 2. furnish a performance bond and a labor and materials or payment bond;
 - a. of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the CRA;
 - b. in the sum of one hundred percent of the contract price;
 - c. premiums for each are to be paid by the General Contractor.
 3. provide an Insurance certificate specifying the Cambridge Redevelopment Authority and the City of Cambridge as **Additional Insureds**, complying with the Insurance requirements set forth herein in the General Terms and Conditions of the contract, Article 8.

The CRA further requires that the General Contractor furnish the CRA with a copy of all insurance policies prior to or with the delivery of its signed Contract to the CRA.

- G. Bidder understands that the CRA reserves the right to reject any or all bids and to waive any minor informalities in the bidding prices.
- H. Total bid amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.
- I. The bidder hereby certifies it shall comply with the CRA’s Minority/Women Hiring Requirements, Responsible Employer Requirements and MBE Requirements for this project and with the Americans with Disabilities Act. The contractor receiving the award of the contract shall be required to obtain from each of its subcontractors and submit to the contracting or administering agency prior to the performance of any work under said contract a certification by said subcontractor, regardless of tier, that it will comply with same.
- J. The bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 days after the scheduled closing time for receiving bids.
- K. The bid security attached in the sum of _____
_____ (\$ _____) is to become the property of the CRA in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the CRA caused thereby.
- L. The undersigned certifies that it possesses the skill, ability and integrity necessary for the faithful performance of the work; that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and who, where the provisions of section 8B of chapter 29 apply, shall have been determined to be qualified thereunder; and who obtains within 10 days of the notification of contract award the security by bond required under section 29 of chapter 149; provided that for the purposes of this section the term “security by

bond” shall mean the bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority.

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the "person" shall mean any natural person, joint venture, business, partnership, corporation, or other business or legal entity.

“I certify under the penalties of perjury that I have complied with all of the laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support”.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provision of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date _____

(Name of General Bidder)

By _____
(Name of Person Signing Bid and Title)

(Print Name of Person Signing Bid and Title)

(Business Address)

(City and State)

(Contact Phone Number)

(Contact Email)

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
102.5	30	Tree Protection and Maintenance, at _____ _____ Per Each				
103.	41	Tree Removed - Diameter Under 24 Inches, at _____ _____ Per Each				
105.	9	Stump Removed, at _____ _____ Per Each				
120.	830	Earth Excavation, at _____ _____ Per Cubic Yard				
125.1	1	Soil and Waste Management, at Five Thousand and 00/100+ _____ = _____ Dollars (\$5,000+ _____) = \$ _____ Lump Sum				
126.1	1,250	Disposal of Soil - Background Soils (Class A-1), at Five and 00/100+ _____ = _____ Dollars (\$5+ _____) = \$ _____ Per Ton				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-04
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
126.3	120	Disposal of Soil - Daily Cover Unlined Landfill (Class B-1), at Ten and 00/100+ = _____ Dollars (\$10+) = \$ _____. Per Ton				
128.	1	Excavation and Removal of Gazebo, at _____ _____ Lump Sum				
151.	260	Gravel Borrow - Type C, at _____ _____ Per Cubic Yard				
180.1	1	Health and Safety Plan, at _____ _____ Lump Sum				
220.1	1	Drainage Structure Adjusted, at _____ _____ Per Each				
358.	3	Gate Box Adjusted, at _____ _____ Per Each				
380.	1	Water Works System, at _____ _____ Lump Sum				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-05
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
380.1	1	Backflow Preventer, at _____ _____ Lump Sum				
389.	1	Drinking Fountain with ¾" Hose Bib, at _____ _____ Per Each				
390.	1	Irrigation System Removed and Reset & New Irrigation Controller, at _____ _____ Lump Sum				
420.	10	Hot Mix Asphalt Base Course, at _____ _____ Per Ton				
460.	240	Hot Mix Asphalt, at _____ _____ Per Ton				
472.	20	Hot Mix Asphalt for Miscellaneous Work, at _____ _____ Per Ton				
504.	50	Granite Curb Type VA4 - Straight, at _____ _____ Per Foot				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-06
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
509.	35	Granite Transition Curb for Pedestrian Ramps - Straight, at _____ _____ Per Foot				
509.1	75	Granite Transition Curb for Pedestrian Ramps - Curved, at _____ _____ Per Each				
509.7	2	Interpretive Granite Seating Elements, at _____ _____ Per Each				
509.8	7	Granite Seating Elements, at _____ _____ Per Each				
580.	12	Curb Removed and Reset, at _____ _____ Per Foot				
580.2	130	Landscape Granite Curb Installed - Curb Provided by CRA, at _____ _____ Per Foot				
580.21	90	Flush Granite Curb Installed - Curb Provided by CRA, at _____ _____ Per Foot				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-07
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
580.22	490	Flush Granite Curb Median - Curb Provided by CRA, at _____ _____ Per Foot				
580.23	4	Engraved Granite Curb Installed - Curb Provided by CRA, at _____ _____ Per Each				
594.	160	Curb Removed and Discarded, at _____ _____ Per Foot				
645.148	700	48 Inch Chain Link Fence (PTR) Black Vinyl Coated (LPO), at _____ _____ Per Foot				
650.148	1	48 Inch Chain Link Gate w/ Gate Posts (PTR) Black Vinyl Coated with Padlock, at _____ _____ Per Each				
665.1	700	Chain Link Fence Removed and Discarded, at _____ _____ Per Foot				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-08
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
669.1	110	Wood Guardrail Removed and Discarded, at _____ _____ Per Foot				
698.5	600	Tree Root Barrier, at _____ _____ Per Foot				
701.10	20	Cement Concrete Sidewalk, at _____ _____ Per Square Yard				
701.11	340	Scored Cement Concrete Decorative Sidewalk, at _____ _____ Per Square Yard				
701.2	100	Cement Concrete Pedestrian Ramp, at _____ _____ Per Square Yard				
701.28	100	Detectable Tile - Cast Iron, at _____ _____ Per Square Foot				
702.1	200	Porous Pavement Walk Surface, at _____ _____ Per Square Yard				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-09
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
706.1	25	Brick Sidewalk Removed and Re-laid, at _____ _____ Per Square Yard				
707.11	11	Adirondack Chairs, at _____ _____ Per Each				
707.12	4	Adirondack Benches, at _____ _____ Per Each				
707.8	3	Steel Bollard, at _____ _____ Per Each				
707.9	6	Bicycle Ring and Post, at _____ _____ Per Each				
707.91	1	Bicycle Rack Removed and Reset, at _____ _____ Per Each				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-010
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
748.	1	Mobilization, at Lump Sum				
751.11	20	Planting Bed Medium, at Per Cubic Yard				
751.12	180	Lawn Root Zone Medium, at Per Cubic Yard				
751.13	10	Lawn Root Zone Medium - Fortified, at Per Cubic Yard				
751.14	40	Lawn Root Zone Medium on Slope, at Per Cubic Yard				
765.	2,300	Seeded Lawn, at Per Square Yard				
775.434	15	Locust - Honey - "Shademaster" 3-3.5 Inch Caliper, at Per Each				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-011
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
778.163	12	Birch - River "Heritage" 10-12 Foot Clump, at _____ _____ Per Each				
780.181	13	Ivory Halo Dogwood 24-30 Inch Height, at _____ _____ Per Each				
783.051	3	Serviceberry 10-12 Foot Height, at _____ _____ Per Each				
789.333	22	Bayberry Shrub - Northern 2-3 Feet, at _____ _____ Per Each				
794.325	48	Sumac Shrub - Fragrant #3 Cont., at _____ _____ Per Each				
796.071	203	Virginia Creeper 1 Gallon, at _____ _____ Per Each				
796.296	42	Knock Out Rose #3 Cont., at _____ _____ Per Each				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-012
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
796.427	114	Feather Reed Grass #2 Cont., at _____ _____ Per Each				
796.447	194	Creeping Lilyturf #2 Cont., at _____ _____ Per Each				
811.37	8	Electric (Traffic) Handhole Adjusted, at _____ _____ Per Each				
816.01	1	Traffic Signal Reconstruction, at _____ _____ Lump Sum				
826.55	1	Fire Alarm Cabinet Foundation, at _____ _____ Lump Sum				
852.1	1	Traffic Management and Coordination, at _____ _____ Lump Sum				
865.1	1,200	Crosswalks and Stop Lines Reflectorized White (Thermoplastic), at _____ _____ Per Square Foot				

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-013
ADDENDUM #1
June 30, 2015

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
867.04	600	4 Inch Reflectorized Yellow Line (Thermoplastic), at _____ _____ Per Foot				
904.	10	4000 PSI, 3/4 Inch, 610 Cement Concrete, at _____ _____ Per Cubic Yard				
996.	1	Erosion and Sediment Control, at _____ _____ Lump Sum				
997.	1	Construction Staking, at _____ _____ Lump Sum				
998.	1	Record Drawings, at _____ _____ Lump Sum				
999.	1	Railroad Allowance, at _____ _____ Lump Sum				

Grand Total Amount of Bid:

GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS ALONG GALILEO GALILEI WAY

Bidder's Name _____

00300-014
ADDENDUM #1
June 30, 2015

(Amount In Words)

\$ _____
(Amount In Figures)

Add Alternate # 1

Total Amount of Add Alternate #1 Bid:

\$ _____

ITEM NO.	APPROX. QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT		
			Dollars	Cents	Dollars	Cents
ADD ALT#1	1	Poured-In-Place Playground Surfacing System with Play Spinners, at _____ _____ Lump Sum				

(Amount In Words) (Amount In Figures)

drawings, materials, tools, equipment and labor required to install the drinking fountain as shown on the plans and as required by the Engineer.

**ITEM 390. IRRIGATION SYSTEM REMOVED AND RESET LUMP SUM
 AND NEW IRRIGATION CONTROLLER**

The work under this Item shall be in accordance with the relevant provisions of Section 300 of the Standard Specifications for Highways and Bridges, Regulations of the City of Cambridge Water Department, and the following:

(1) Description

Contractor shall obtain the services of an irrigation installer to remove the existing system from along the east side of the existing sidewalk, which runs along the west side of Galileo Galilei Way. The existing irrigation system consists of 31 individual spray heads. The Contractor will be responsible for adjusting the system as required and installing the system back along the sidewalk once excavation and grading of the new path is complete.

Contractor shall obtain the services of an irrigation installer to remove the existing irrigation system control box and install a new control box for the existing irrigation system. The Contractor will be responsible for re-connecting all existing irrigation zones and providing a new controller, valve box, solenoids, and any other hardware and fittings required to complete the installation. The new valve box cover shall be installed on a new concrete pad at the location shown on the plans, or as required by the Engineer.

(2) Materials and Construction Methods

The reset system shall have industry standard coverage of the existing landscaped area and shall have system components that are compatible with the existing system. The proposed system shall be reinstalled in approximately the same location and connected to the existing system as shown on the plans or as required by the Engineer.

The new irrigation controller shall have system components that are compatible with the existing system ***and shall be a Hunter I-CORE controller set on a stainless steel pedestal.*** Controllers shall automatically operate the irrigation system and be able to accommodate all aspects of design, including rain shutoff, multiple schedules and repeat cycles. Irrigation controlling units shall be enclosed in secure weather and vandal-resistant, locking housing manufactured expressly for that purpose. Controller shall not be installed within an irrigation spray pattern.

All piping, connectors, fittings, spray heads and other appurtenances required to make the proposed system whole and functional shall be included for payment under this Item.

The Contractor shall make his own investigation of the existing system and provide shop drawings to the Engineer for approval, prior to ordering any system materials. The shop drawings shall show layout of the spray heads, including spray pattern coverage and layout of any required piping. New materials shall be shown to be compatible with the existing system.

The Contractor shall coordinate the electrical service connection with Eversource Energy and shall install conduit and wiring as necessary to connect and power the new irrigation system.

The electrical service conduit and cable from the electric manhole, to the irrigation control cabinet will be provided by the Contractor. The local electric utility company will connect the terminals of the control cabinet to the source of supply.

The installation of conduit and wiring on or in local electric utility company facilities shall be in strict accordance with the regulations of the utility company. All work performed by the Contractor at local electric utility company structures shall be performed under the direct observation of a utility company inspector or representative.

The Contractor will be responsible for coordinating the electrical work in the vicinity of the irrigation control cabinet and for notifying the local electric utility company that construction has started and arranging the necessary time schedule with them for installation of electrical service to the control cabinets. Under no conditions shall the Contractor make permanent patch to the roadway or apply the final roadway surface if the roadway is to be resurfaced, or until services to the control cabinet has been completed.

The contractor will be responsible for all costs and fees related to the service connection provided by the utility (Eversource Energy). Their payment shall be the sole responsibility of the Contractor and considered incidental to the item.

NOTE: Irrigation Zone 2C shall be turned off until the City of Cambridge Water Department has fixed an existing water leak in the Galileo Galilei Way median island.

(3) Measurement

ITEM 390., IRRIGATION SYSTEM REMOVED AND RESET AND NEW IRRIGATION CONTROLLER, will be measured as a Lump Sum, complete, in-place and functional for the irrigation system.

(4) Payment

ITEM 390., IRRIGATION SYSTEM REMOVED AND RESET AND NEW IRRIGATION CONTROLLER, shall be paid at the contract unit price bid per Lump Sum which payment shall include furnishing all required submittals, shop drawings, materials, tools, equipment and labor required to remove the existing system, reset the system, re-connect all existing irrigation zones, coordinate with Eversource Electric, install conduit and wiring to connect and power the system, equipment and labor required to remove and dispose of the existing control box and cabinet and install the new controller, cabinet, and concrete pad, as shown on the plans and as required by the Engineer.

ITEM 645.148 48 INCH CHAIN LINK FENCE (PTR) FOOT
BLACK VINYL COATED (LINE POST OPTION)

ITEM 650.148 48 INCH CHAIN LINK GATE W/ GATE POSTS (PTR) EACH
BLACK VINYL COATED W/ PADLOCK

(1) Description

The work under these items shall consist of furnishing and installing black vinyl coated 48 inch chain link fence (Pipe Top Rail) (Line Post Option) and black vinyl coated 48 inch chain link gate with gate posts (Pipe Top Rail) with padlock as shown on the plans and as required by the Engineer.

(2) Materials and Construction Methods

The materials and construction methods used to install a 48 inch chain link fence (Pipe Top Rail) black vinyl coated (Line Post Option) and 48 inch chain link gate with gate posts (Pipe Top Rail) with padlock shall be in conformance with the requirements of Section 644, Chain Link Fence and Gates, of the MassDOT "Standard Specifications", the City of Cambridge Standard Specifications and Details, and as approved by the Engineer.

Each gate shall include a suitable and substantial padlock with all padlocks keyed alike to one key. Padlocks shall be chrome plated - corrosion resistant steel padlocks conforming to the required provisions as outlined by ASTM F883-97. Four (4) keys are to be provided for each padlock and shall be furnished to the Cambridge Redevelopment Authority.

Submittals:

The contractor shall submit shop drawings for approval prior to ordering fencing, gate materials and padlock. Shop drawings shall include all materials, dimensions, sizes, and methods of installation.

(3) Measurement

48 Inch Chain Link Fence (Pipe Top Rail) Black Vinyl Coated (Line Post Option) will be measured per foot, complete in place for the locations shown on the contract drawings or as required by the Engineer.

48 Inch Chain Link Gate w/ Gate Posts (Pipe Top Rail) Black Vinyl Coated with Padlock will be measured per each, complete in place for the locations shown on the contract drawings or as required by the Engineer.

(4) Payment

The work for 48 Inch Chain Link Fence (Pipe Top Rail) Black Vinyl Coated (Line Post Option) shall be paid on a per foot basis. The work for 48 Inch Chain Link Gate w/ Gate Posts (Pipe Top Rail) Black Vinyl Coated with Padlock shall be paid on a per each basis. The price shall include full compensation for all labor, equipment, tools, shop drawings and other incidentals required

for the satisfactory completion of the work, including excavation, gravel back fill, padlocks and fence post foundations as outlined in these Specifications.

1. Color: Charcoal
2. Anchor: "L" bracket security mount
3. Quantity: See drawing.
- 4.

The Contractor shall guarantee all work against defective materials and workmanship for a period of one year after final acceptance for new benches provided by the contractor under these items.

Adirondack chairs and benches shall be installed as shown on the plans and in accordance with the manufacturer's directions. All Adirondack chairs and benches shall be anchored to the concrete base in accordance with manufacturer's recommendations.

PAYMENT

Adirondack Chairs and Benches shall be paid for at the contract unit price bid per each, which price shall constitute full and complete compensation for all labor, materials, anchoring hardware and bolts, and equipment and all other incidentals required to finish the work, complete and accepted by the Engineer.

Concrete Foundations will be paid for under Item 904, 4000 PSI, ¾ Inch, 610 Cement Concrete.

ITEM 707.9	BICYCLE RING AND POST	EACH
ITEM 707.91	BICYCLE RACK REMOVED AND RESET	EACH

DESCRIPTION

This section specifies requirements for miscellaneous site furniture as shown on the Contract Drawings and as listed below.

Submittals

The Contractor shall provide the following submittals:

Manufacturer's product literature:

Submit manufacturer's material and installation instructions. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, field-assembly requirements, and installation details and maintenance data. Supply Certificate of Compliance for all materials required for fabrication and installation.

MATERIALS

Concrete Bases, Slabs and Foundations

Concrete for foundations shall be 4000 psi, 28 day compressive strength with ¾" aggregate in compliance with requirements of Section 900 of the Standard Specifications. The Contractor shall submit shop drawings detailing the concrete foundation as per this specification.

Reinforcing steel shall have a recycled content of 30% or greater and shall conform to the following standards;

1. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

DESCRIPTION

The work of this Section consists of providing and installing steel bollards as indicated on the Drawings and/or as specified herein and includes, but is not limited to, the following:

- A. Galvanized and concrete filled steel bollards with footings, completely installed.
- B. Excavation for bollards and footings and concrete in conformance with Section 476 of the Standard Specifications.

SAMPLES AND SUBMITTALS

At least 60 days prior to fabrication, the Contractor shall submit to the Engineer, manufacturer's shop drawings with material specifications, manufacturers literature and (where applicable) installation instructions attesting that the materials meet the requirements specified. No material shall be ordered until the Engineer has approved submittals. The Engineer shall retain the right to reject castings not conforming to this specification and/or approved submittal drawings. Delivered materials shall match approved materials.

MATERIALSGeneral

Steel bollards shall be fabricated from hot-dipped galvanized 3/8" or thicker steel pipe fabricated to dimensions shown on the Drawings and indicated herein. Bollards shall be 8" nominal diameter, concrete filled steel pipe with a rounded concrete top. The bollards shall have an exposed height of 60" and shall have a 42" buried section.

Hot-dipped galvanize, priming, and galvanized paint materials for bollards shall be compatible and specified for use and application under controlled shop conditions and according to Section M7 PAINTS AND PROTECTIVE COATINGS of the Standard Specifications.

Finish

Bollards shall be hot-dipped galvanized, primed, and painted with zinc-rich primer and two coats of polyurethane enamel color – SAFETY BLACK.

All welds and burrs shall be ground smooth and all steel hot-dipped galvanized and prepared according to manufacturer's instructions for priming and painting.

CONSTRUCTION METHODSInspections

Obtain inspection and approval of Engineer for of bollards at delivery to the project site and again, at layout and installation.

Installation

Bollards shall be installed even, plumb and to locations, dimensions, and elevations as shown in the Drawings, and coordinated with the Owner.

COMPENSATION

Method Of Measurement

Bollards will be measured PER EACH, installed complete-in-place including all excavation, labor, materials, shipping costs and equipment required or incidental for the satisfactory completion of the work, including concrete footings.

Basis Of Payment

Bollards will be paid for at the Contract Unit Price and shall include all excavation, labor and materials required until Final Acceptance.

The work performed under these items shall conform to the requirements for lead paint presented in sections 961.65 through 961.69 of the Supplemental Standard Specifications.

All tests and any necessary repairs and replacements required to produce a fault-free system shall be included in the Lump Sum bid prices for Item 816.01.

ITEM 826.55 FIRE ALARM CABINET FOUNDATION LUMP SUM

The work under this Item shall consist of constructing a new foundation for the relocated fire alarm cabinet and relocating the existing cabinet to the new foundation as shown on the Plans or as required by the Engineer. The Cambridge Electrical Department will be responsible for transferring the wiring from the old location to the new cabinet location.

CONSTRUCTION METHODS

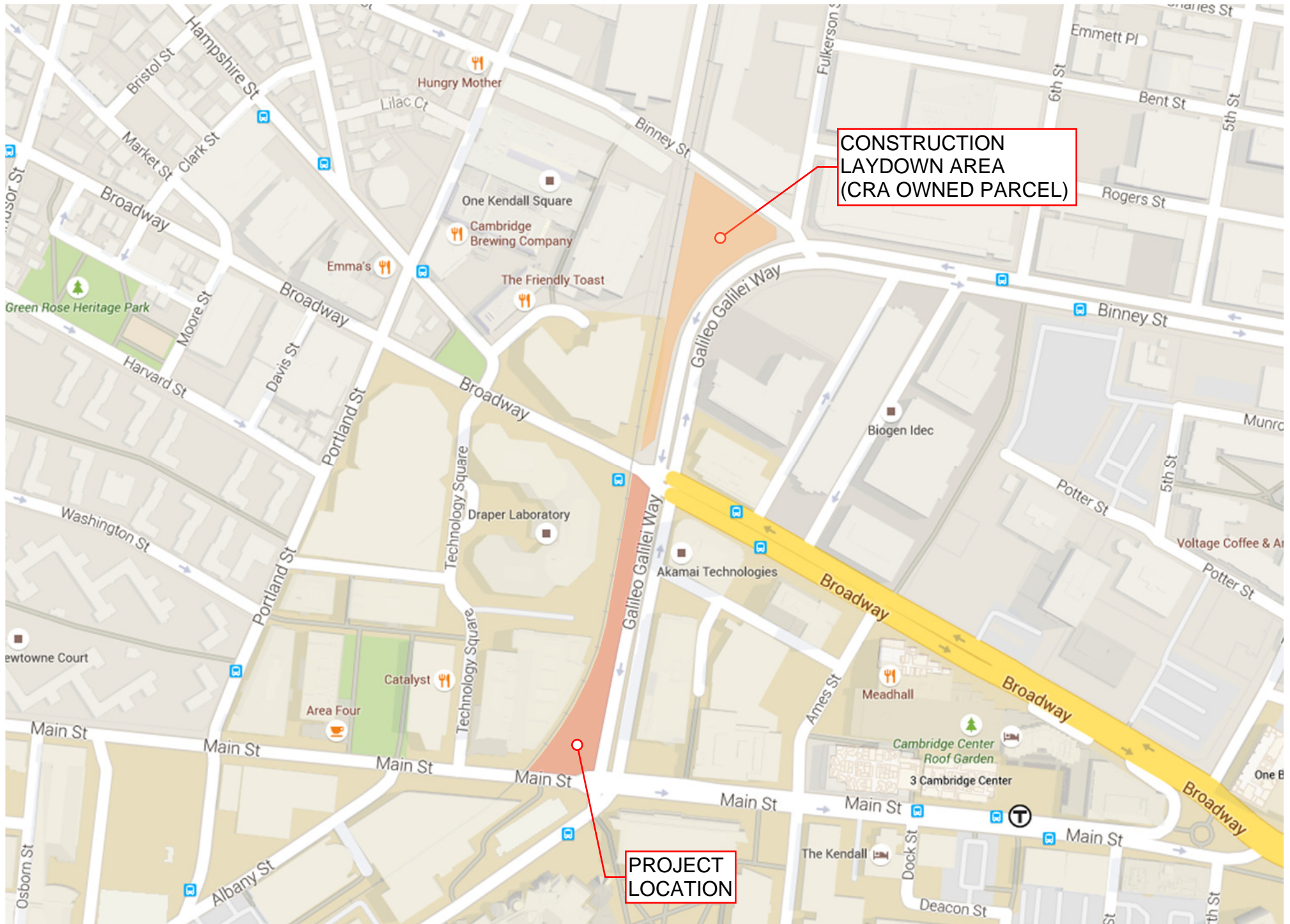
The fire alarm cabinet foundation shall be constructed using 4,000 psi, 3/4 inch, 610 Cement Concrete conforming to the relevant provisions of Section M4 of the Standard Specifications. No forms for foundations shall be set nor shall concrete be placed until the excavation has been inspected and approved by the City.

All sweeps to be installed in cabinet foundation shall be 3-inch (PVC) sweeps with sufficient 3 inch PVC riser to project above the finish grade of the base. A cement concrete pad shall abut the front of the cabinet and shall be built in accordance with the City's sidewalk specifications. The width of the concrete pad shall be equal to the width of the long side of the cabinet foundation. The depth of the concrete pad shall be 3 feet.

COMPENSATION

Payment shall be made for Item 826.55, Fire Alarm Cabinet Foundation at the contract lump sum price, which price shall be full compensation for excavation, including removal of sidewalk or pavement as required; discarding all unsuitable or unacceptable materials if required; constructing the new foundation and required conduit sweeps; relocating and installing the existing cabinet to the new foundation; backfilling; and for furnishing all materials, labor, tools and equipment, and all else in connection therewith and incidental thereto.

CONSTRUCTION LAYDOWN AREA LOCATION





Cambridge Redevelopment Authority

255 Main Street, 4th Floor
CAMBRIDGE, MASSACHUSETTS 02142
PHONE: 617-492-6800

Agenda

Project: File R-107, Contract No. 16
Grand Junction Path & Pedestrian Improvements
Along Galileo Galilei Way
Cambridge, MA

Meeting Date: June 24, 2015 at 2:00 PM

Meeting Location: **Cambridge Public Works Department**
Public Works Department Conference Room
147 Hampshire Street
Cambridge, MA 02139

Subject: Pre-Bid Meeting

- 1) Introduction (Jason Zogg, CRA)
 - a) Bid Forms
 - b) Administrative Requirements
- 2) Project Overview (John Michalak, FST)
 - a) Project Description
 - b) Removal of Gazebo
 - c) Use of Existing Granite Curb Provided by CRA
 - d) Add Alternate Item No. 1 – Play Area
 - e) Project Schedule
 - i) Contractor Questions Due – Wednesday July 1, 2015
 - ii) Bids Due – July 8, 2015 12:00PM (FST)
 - iii) Bid Opening – July 8, 2015 2:00PM (CPWD)
 - iv) Construction Schedule
- 3) Railroad Coordination (John Michalak, FST)
 - a) Keolis Commuter Rail
 - b) MBTA / MassDOT
 - c) Requirement and Coordination of Flaggers
 - d) Fence Removal and Installation Procedures
- 4) Contaminated Soil Removal and Testing (John Michalak, FST)

- 5) Coordination with City Departments (John Michalak, FST)
 - a) Traffic Department (Traffic Signal Controller)
 - b) Electrical Department (Fire Alarm Box)
 - c) Cambridge Public Works Department
 - d) Cambridge Water Department
 - e) Utility Coordination
 - (1) Veolia Energy (Steam)
 - (2) National Grid (Gas)

Prepared By: Fay, Spofford & Thorndike
2015-06-24 Pre-Bid Agenda.doc



Grand Junction Path & Pedestrian Improvements Along Galileo Galilei Way Cambridge Redevelopment Authority Pre-Bid Meeting



June 24, 2015 at 2:00 PM
Public Works Conference Room
147 Hampshire Street, Cambridge MA 02139

Name / Position	Representing	Phone	Email
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JOHN M. MICHALAK	FST	781-221-1076	jmichalak@fstinc.com
DR Rossi / Project Manager	Mattchio	781-322-1955	JR@mattchioconstruction.com
JASON ZOGG	CRA	518 334 1511	jzogg@cambridgeredevelopment.org
MITT KUKULKA	GREENSCAPE	508 958 9637	mittk@greenscape.us.com
DIANE STOKES	DPW	617 349 9405	dstokes@cambridge.ma.gov
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Grand Junction Path & Pedestrian Improvements Along Galileo Galilei Way Cambridge Redevelopment Authority Pre-Bid Meeting



June 24, 2015 at 2:00 PM
Public Works Conference Room
147 Hampshire Street, Cambridge MA 02139

Name / Position	Representing	Phone	Email
Jeff Sacca	JNS Sacca Inc.	617-489-1819	jnsacca@comcast.net
Jim Wilcox	Engineering	617-349-6426	jwilcox@cambridgema.gov