

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Flex your power!  
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February 17, 2011

06-Tul-99-22.4

06-0A9704

Project ID 0600000019

NH-SARRA-STPE-SARRAE-

P099(539)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN TULARE COUNTY NEAR TIPTON AT THE PHILIP S. RAINE SAFETY ROADSIDE REST AREA.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, March 9, 2011. The original bid opening date was previously postponed indefinitely under Addendum No. 2 dated December 9, 2010.

This addendum is being issued to set a new bid opening date as shown herein and revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, the Federal Minimum Wages with Modification Number 13 dated 1/28/11 and provide an additional Information Handout.

Project Plan Sheets 46, 47, 49, 50, 62, 63, 70, 79, 113, 178, 184, 206, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 299, 312, 313, 317, 318, 319, 320, and 321 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 42A and 42B are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plan is added:

"B11-51."

In the Special Provisions, Section 10-1.16, "EXISTING HIGHWAY FACILITIES," subsection "RELOCATE DEDICATION PLAQUE," is revised as follows:

"Existing dedication plaque shall be removed and relocated to the new locations shown on the plans.

Concrete for dedication plaque shall conform to the provisions in Section 90-10, "Minor Concrete," of the Standard Specifications.

Full compensation for minor concrete for the dedication plaque shall be considered as included in the contract unit price paid for relocate dedication plaque and no separate payment will be made therefor."

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In the Special Provisions, Section 10-1.18, "EARTHWORK," the following paragraphs are added after the third paragraph:

"At the locations and to the limits shown on the plans, material below the bottom of retaining wall footings shall be removed and replaced with Class 2 aggregate base material in conformance with the placing and compacting requirements for structure backfill. The relative compaction shall be not less than 95 percent. Removal of the material will be measured and paid for by the cubic yard as structure excavation (retaining wall) and furnishing, placing, and compacting the replacement material will be measured and paid for by the cubic yard as structure backfill (retaining wall).

At the footings where material is removed and replaced, as described herein, a relative compaction of not less than 95 percent shall be obtained for a minimum depth of 0.5 foot below the bottom of excavation.

No backfill material shall be deposited against the back of Type 6 retaining walls until the grout has developed a strength of not less than 1,500 psi in compression or until the grout has been in place for 28 days, whichever occurs first."

In the Special Provisions, Section 10-1.37, "MINOR CONCRETE (PERVIOUS)," is revised as attached.

In the Special Provisions, Section 10-1.39, "MISCELLANEOUS IRON AND STEEL," the first paragraph is revised as follows:

"Miscellaneous iron and steel (iron grate), miscellaneous iron and steel (rail barrier), miscellaneous iron and steel (rail) and miscellaneous iron and steel (plate steel) shall conform to the provisions in Section 75, "Miscellaneous Metal," and Section 83-1, "Railings," of the Standard Specifications and these special provisions."

In the Special Provisions, Section 10-4.02, "INTERPRETIVE DISPLAY," is deleted.

In the Special Provisions, Section 10-4.03, "DISPLAY PANELS," is added as attached.

In the Special Provisions, Section 10-4.04, "SUN SCREENS," is added as attached.

In the Special Provisions, Section 12-2.10, "WATER SUPPLY SYSTEM," subsection "PART 2 - PRODUCTS," sub-subsection "Pressure Tank," the first paragraph is revised as follows:

"Pressure tank shall be a horizontal epoxy lined steel pressure vessel conforming to the ASME Code for unfired pressure vessels. The wall thickness of the tank shall be increased 1/16 inch above nominal design to account for corrosion. The tank shall have a working pressure of 125 psi and shall be stamped accordingly. The tank shall have an 12" x 16" oval manhole at one end, lifting lugs, support saddles, and extra-heavy half couplings welded to the tank. Openings in the tank shall accommodate the piping as shown on the plans. Capacity shall be as shown on the plans."

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In the Special Provisions, Section 12-3.01, "CAST-IN-PLACE CONCRETE," subsection "PART 2 - PRODUCTS," sub-subsection "RELATED MATERIALS," sub-heading "Silicone Concrete Joint Sealant," is added following sub-heading "Expansion Joint Material," as follows:

"Silicone Concrete Joint Sealant: Silicone Concrete Joint Sealant shall be commercial qualified material, and meet the following requirements:

Self Leveling  
All temperature gunnability  
Unprimed adhesion to Portland Cement Concrete  
Ultra low modulus  
Fully elastic and resilient  
Long life reliability, minimum 20 years"

In the Special Provisions, Section 12-9.11, "METAL PANELS," is deleted.

In the Special Provisions, Section 12-10.11, "SUN SCREENS," is deleted.

In the Bid book, in the "Bid Item List," Item 51 is revised, Items 91, 92, 93 and 94 are added and Item 42 is deleted as attached.

To Bid book holders:

Replace pages 5 and 7 of the "Bid Item List" in the Bid book with the attached revised pages 5 and 7 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Attached is a copy of the added Information Handout.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

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This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/06/06-0A9704](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/06/06-0A9704)**

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL  
Chief, Office of Plans, Specifications & Estimates  
Office Engineer  
Division of Engineering Services

Attachments

## 10-1.37 MINOR CONCRETE (PERVIOUS)

### DESCRIPTION

This work shall consist of constructing a pervious concrete to the lines, grades, and dimensions shown on the plans in accordance with these special provisions.

Pervious concrete shall consist of a mixture of aggregate, cementitious material, water and optional chemical admixtures conforming to the provisions in these special provisions.

A minimum of three persons on the contractor's pervious concrete placement crew shall be certified as Pervious Concrete Technician, Installer or Craftsman by the National Ready Mixed Concrete Association.

### SUBMITTALS

#### LEED Submittals

Submit under "LEED Requirements" in Section 5-1 of these special provisions:

Credit MR 4.1 and 4.2, Recycled Content: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include cost for each product.

Credit MR 5.1 and 5.2, Regional Materials: For products regionally extracted or manufactured, provide each product's source location, manufacture location, distance of each from job site, and material cost as defined under "LEED Requirements" in Section 5-1 of these special provisions.

### MATERIALS

Aggregate shall conform to the provisions in Section 90-2, "Materials," of the Standard Specifications. The grading of the coarse aggregate shall conform to the following:

Aggregate grading for pervious concrete	
Sieve Size	Percentage Passing
1/2"	100
3/8"	90 – 100
No. 4	20 – 55
No. 8	5 – 30
No. 16	0 – 5
No. 50	0 – 5

Cementitious material shall conform to the provisions in Section 90, "Portland Cement Concrete," of the Standard Specifications.

Water shall conform to the provisions in Section 90-2.03, "Water," of the Standard Specifications.

Chemical admixtures shall conform to the provisions of Section 90-2.04, "Admixtures," of the Standard Specifications.

Pervious concrete shall have integrally pigmented color. The color shall closely conform to Federal Standard 595B No. 30324. Samples of the colors specified are available for review by prospective bidders at the office of the Department of Transportation, Landscape Architect, located at .

Color pigments shall be in liquid form, of high quality iron oxides conforming to ASTM C 979 and shall conform to Section 90-4.10, "Proportioning and Dispensing of Liquid Admixtures," of the Standard Specifications. The dosage shall not exceed 10 percent by weight of cementitious material in the concrete mix design.

### STORING, PROPORTIONING AND MIXING

The Contractor shall determine the proportions of the concrete for pervious concrete. The unit weight of the concrete shall be determined in accordance with ASTM C29 paragraph 11, jiggling procedure. Based on the unit weight, compacted void content of the concrete shall be a minimum of 12.5 percent and a maximum of 20 percent.

Aggregates for pervious concrete shall be stored and aggregates, cementitious materials, chemical admixtures and water for pervious concrete shall be proportioned, mixed, and transported in conformance with the provisions in Sections 90-5, "Proportioning," and 90-6, "Mixing and Transporting" of the Standard Specifications, except Section 90-6.06 "Amount of Water and Penetration" shall not apply.

The cementitious material content of pervious concrete shall be not less than 505 lbs/yd<sup>3</sup>.

The water to cementitious material ratio (the ratio of the amount of water, exclusive only of that absorbed by the aggregates, to the amount of cementitious material, by mass) shall not exceed 0.32.

#### **PLACING, SPREADING, COMPACTING AND SHAPING PERVIOUS CONCRETE**

Placing of pervious concrete shall conform to the provisions for "Fixed Forms" in Section 73-1.04 of the Standard Specifications.

Pervious concrete shall be spread, compacted and shaped in conformance with the provisions for spreading, compacting and shaping concrete in Section 73-1.06 of the Standard Specifications, "Sidewalk, Gutter Depression, Island Paving, Curb Ramp (Wheelchair Ramp) and Driveway Construction," except that paragraphs two and eight shall not apply.

Compaction shall be performed with a steel roller with a mass sufficient to compress pervious concrete 0.04 foot. Compaction shall be completed within fifteen minutes after the spreading operation and shall consist of 2 complete coverages of the pervious concrete.

Joints shall be constructed with rolling joint tool, within 10 minutes after compaction.

Pervious concrete shall be spread only when the atmospheric temperature is above 41°F.

The completed pervious concrete shall be cured in conformance with Section 90-7.01C. "Waterproof Membrane Method," of the Standard Specifications, except that the membrane shall be placed over the pervious concrete within 30 minutes after compaction. The curing membrane shall remain in place for a period of not less than 10 days. The membrane shall be inspected daily and in areas that have no condensation on the membrane water will be applied under the membrane at a rate of one gallon per 10 square feet.

The finished surface of pervious concrete shall be uniform and shall not vary at any point more than 0.03 foot above or 0.02 foot below the grade established by the Engineer. The surface will be straightedged, at locations to be determined by the Engineer, with a straightedge of 4 feet or 6 feet, matching the width of the area to be tested. When the 6-foot straightedge is laid on finished concrete in a direction parallel with centerline or normal to centerline of the direction of traffic, the surface shall not vary more than 0.03 foot from the lower edge. Any high points that cause the surface to exceed these tolerances shall be removed by grinding as provided in this section.

Damage to the pervious concrete shall be repaired promptly by the Contractor at the Contractor's expense, as directed by the Engineer.

#### **SURFACES NOT WITHIN TOLERANCE**

Pervious concrete with a surface higher than 0.03 foot above the grade established by the Engineer shall be removed and replaced with pervious concrete that complies with these specifications.

Hardened pervious concrete with a surface lower than 0.02 foot below the grade established by the Engineer shall be removed and replaced with pervious concrete that complies with these specifications.

#### **MEASUREMENT AND PAYMENT**

The quantity of pervious concrete to be paid for will be measured by the cubic yard. The volume to be paid for will be calculated on the basis of the dimensions shown on the plans adjusted by the amount of any change ordered by the Engineer. No allowance will be made for pervious concrete placed outside those dimensions unless otherwise ordered by the Engineer.

The contract price paid per cubic yard for minor concrete (pervious) shall include full compensation for furnishing all labor, materials (including cementitious material), tools, equipment and incidentals, and for doing all the work involved in constructing pervious concrete, complete in place, as shown on the plans, as specified in these special provisions, and as directed by the Engineer.

### 10-4.03 DISPLAY PANELS

#### DESCRIPTION

Display Panels shall consist of Interpretive Display Frame and Panels and Building Display Panels.

Interpretive Display Frame and Panels include porcelain enamel display panel, frame, mounting hardware, display panel base, and welded wire mesh as shown on plans.

Building Display Panels include porcelain enamel display panel and mounting hardware, as shown on plans.

Display panels shall conform to the style, dimensions and details shown on the plans and to the provisions in "Miscellaneous Metal," elsewhere in these special provisions. Display panels shall be stored in a dry space, protected from damage and weather prior to installation.

The footing for interpretive display panel (Style 3) shall conform to the provisions in Section 90-10, "Minor Concrete" of the Standard Specifications.

#### SUBMITTALS

Manufacturer's descriptive data, installation instructions, and finish options shall be submitted to the Engineer for approval. Working drawings shall show all panels and panel locations with associated images. All associated components and fastening clips and materials shall be shown.

The Engineer will furnish the Contractor with artwork suitable for sign manufacturer to generate final images for review prior to four color process printing of the porcelain enamel display panels. Samples of the images specified for display panels are available for review by prospective bidders at the office of the Department of Transportation, 2015 E. Shields Ave. Suite 100, Fresno, CA.

The Contractor shall provide a hard copy proof of the artwork to the Engineer for written approval prior to ordering display panels. The approved proof shall be the referee sample which display panels conform to. Rejected proofs shall be revised as directed by the Engineer until a proof is produced which is suitable for fabrication of the panels.

Installation instructions shall show manufacturer's recommended method of installation.

#### MATERIALS

Porcelain enamel display panels shall be porcelain enamel, fabricated from low carbon sheet steel, as flanged panels. Flanged dimension as shown on plans and sufficient to cover support frame.

Porcelain enameled display panels shall be fabricated from 11 gauge vitreous enameling iron (VIT), a special purpose enameling steel with a carbon content not more than 0.008 percent. Porcelain enamel materials shall provide a Class A acid resistant finish. At least two separately fired coating shall be applied to all areas of each unit, including backs and flanges, by methods recognized as good commercial practice. Between each coating of enamel, fuse coat to the metal at approximately 1500°F. Panels shall be flat with no embossed texture design. The finish shall be a gloss with a 70-80 percent reflective range. Continuous line furnace shall be used to minimize color variation from panel to panel. Porcelain enamel materials shall be manufactured in compliance with the Porcelain Enamel Institute's standard specifications.

Accessory items shall be as provided by the display panel manufacturer. All non exposed alignment support framing, pins and clips shall be stainless steel Type 304 No. 2B finish or equal.

Porcelain enamel display panels and painted finishes shall have a smooth surface with a clear graffiti resistant finish coat.

#### INSTALLATION

Display panels shall be fabricated to the size and shape shown on the approved working drawings. Porcelain enamel display panels shall be formed with integral flanges and all corner joints welded and ground smooth prior to application of the finish. Crimped folded or sealant filled corner joints are not acceptable.

Display panels shall be installed in accordance with approved working drawings. Display panels shall be permanently fastened to structural supporting clips and members, properly aligned and leveled.

Porcelain enamel display panels shall be one continuous piece.

#### **CLEAN UP**

Adjacent surfaces shall be protected from adhesive or sealant. Excess adhesive and sealant shall be removed as the installation progresses using a solvent or cleaning agent recommended by the display panel manufacturer.

#### **WASTE MANAGEMENT**

Comply with provisions of "Construction Waste Management" in Section 5-1.13 of these special provisions. Recycle packaging. Dispose of other products without contaminating soil, water, or other materials.

#### **MEASUREMENT AND PAYMENT**

The contract unit price for the various types of Display Panels shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in constructing display panel, including porcelain enamel display panels, concrete footing, metal display frames, welded wire mesh and mounting hardware, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

## 10-4.04 SUN SCREENS

### GENERAL

#### Summary

This work shall consist of providing and installing commercial sun screens. Sun screens shall consist of a tension fabric structure (TFS). The TFS manufacturer shall be responsible for the design, engineering, fabrication, supply and installation of the work specified herein.

The fabric structure shall be a cable and frame supported tensioned membrane structure. The fabric shall have low elongation characteristics under tension and shall assume an anti-elastic configuration. Structures that have designs incorporating fabric in a flat or mono-axially curved configuration at any location in the roof will not be acceptable.

#### Submittals

Data: Manufacturer product data, including specifications and installation instructions for each component of the TFS. Include laboratory test reports and other data, where applicable.

Engineering drawings: 11" x 17", dimensioned drawings for the TFS signed and sealed by a licensed civil or structure engineer. Include plan view, elevations, details, sections, connections, and anchorage/footings.

Samples: fabric, 8 1/2" x 11" minimum

Structural calculations: Signed and sealed by a registered structural or civil engineer specializing in TFS design and engineering.

#### LEED Submittals:

1. Credit MR 4.1 and MR 4.2: For products having recyclable content, provide documentation indicating percentages, by weight, of post consumer and preconsumer recycled content.
2. Credit MR 5.1 and 5.2: Identify each regional material along with the location of its harvest, extraction, or manufacture. Include material cost for each item.

#### Quality Assurance

TFS Manufacturer must provide proof of the following certifications:

1. Have been in continuous operation as a professional Fabric Tension Structure manufacturer for a minimum of ten years prior to this contract.
2. Welder qualifications: The personnel manufacturing the metal awning frames must certified welders.
3. Provide written Welding Procedure specifications.
4. Professional Engineering Qualifications: A professional engineer who is legally authorized to practice in the jurisdiction where project is located and who is experienced in providing engineering services for installing Tensioned Fabric structures similar to those indicated for this project and with a record of successful in service performance.
5. The installation crews must have a copy of the awning company's Code of Safety practices at the job site during times of installation.

## **Warranty**

Warranty frame materials and workmanship against defects for a period of 1 years from date of substantial completion of the work.

Warranty fabric materials and workmanship against defects for a period of 15 years (depending on selected and approved fabric), on a prorated basis, from the date of substantial completion of the work and/or offer the same warranty offered by the fabric mill that manufactured or supplied the fabric.

## **Design**

1. The structural design shall comply with applicable codes and regulations.
2. Design Engineering documentation of complete tensioned membrane structure will meet all applicable codes.
3. The structure shall be designed in accordance with the IBC 2006 building code with the design wind speed to be 90 MPH minimum.
4. Engineering:
  - a. Based on the structural calculations as defined in this section, prepare structural design drawings defining the complete structure, precise interface geometry determination, reaction loads imposed on foundations, anchoring loads, connection details, interfaces and seam layouts.
  - b. Structural calculations for the fabric structure shall include:
    - 1) Large deflection numerical shape generation that will insure a stable, uniformly stressed, three dimensionally curved shape that is in static equilibrium with the internal prestress forces and is suitable to resist all applied loads.
    - 2) Large deflection finite element method structural analysis of the membrane system under all applicable wind, seismic and snow loads.
    - 3) Finite element method structural analysis of the support frame system.
    - 4) Member sizing calculations of all primary structural members.
    - 5) Connection design including bolt, weld and ancillary member sizing.
    - 6) Biaxial Fabric test specification, interpretation and fabric compensation determination.
    - 7) Accurate generation of the two dimensional compensated fabric templates required to generate the three dimensional equilibrium shape.

## **Regulatory Requirement**

1. Conform to applicable code for fire resistance rating for Tensioned Fabric Structure covering.
2. Life Safety: All fabric structures shall be designed so no life safety issue is created in the event of a loss of the fabric. The structural support members shall not rely on the fabric for structural stability.

## MATERIALS

Provide factory-fabricated sun screen units of monofilament and tape construction consisting of ultraviolet (UV) stabilized high-density polyethylene (HDPE) fabric, woven or knitted. Shade factor for manufacturer's standard grey color must be 70 percent or higher. UV radiation blockage must be 90 percent or higher. Shade cloth must meet or exceed the following properties:

Physical Property	Test	Warp	Weft	Overall
Tensile strength	ASTM D 5034	160 lbs.	340 lbs.	
Tongue tear	ASTM D 2261	30 lbs.	35 lbs.	
Bursting pressure	ASTM D 3786			450 psi
Bursting force	ASTM D 3787			350 lbs.
Flammability	NFPA Test Method 2			Pass

### Approved Architectural Fabric Membrane Materials

1. HDPE (High Density Polyethylene)
  - a. Mesh fabric made from UV stabilized HDPE.
  - b. Fire Retardancy: NFPA 701.
  - c. Sewn with PTFE thread in a zig-zag stitch to prevent failure under tension.
  - d. Color: As approved by architect/owner from available selection.

### Aluminum Membrane Plates and Clamps

1. Aluminum shall conform to alloy 6061-T6.
2. All components will be welded or stamped with the appropriate part number in a manner that will still be visible after powder coating is applied.
3. The aluminum shall be polyester powder painted to a minimum of 3 mils.

### Cables and End Fittings

1. Stainless Steel Cables and Fittings:
  - a. Cables shall be 1x19 stainless Steel Open Strands, Grade 316.
  - b. Cables and fittings will be fabricated per the standard operating procedures of the approved manufacturers.
  - c. Attach a tag indicating the cable length and mark number to each cable assembly.
  - d. The design load is the load in the cable under prestressed load condition per the recommendation of the engineer on record.
  - e. Cables shall be tensioned to double the design load before length is cut.
  - f. Cables shall be tensioned to the design load when measuring the cut length that is indicated on the shop drawing.

**Bolts and Related Fasteners**

1. Fasteners and hardware accessories shall be of types and sizes best suited for the purpose as recommended by the engineer on record.
2. Fasteners used on main structural members shall be hot-dipped galvanized high-strength bolts including nuts and washers, and conforming with ASTM 325 or A490 as applicable. All other fasteners shall be adequately sized and treated for corrosion protection.
3. Concrete anchor bolts shall conform to A307 and be Hot-Dipped Galvanized.

**Fabrication**

In accordance with the approved manufacturer's standard procedures and to match approved samples.

**PAYMENT**

The contract lump sum price paid for sun screens shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in providing and installing sun screens, complete in place, as shown on the plans, as specified in these special provisions, and as ordered by the Engineer.

**BID ITEM LIST**  
**06-0A9704**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	019587	PRECAST CONCRETE TRASH CONTAINER	EA	68		
42	BLANK					
43	019589	PRECAST CONCRETE PEDESTAL	EA	6		
44	019590	PRECAST CONCRETE MONUMENT ASSEMBLY	EA	4		
45	019591	PRECAST CONCRETE TYPE 6B RETAINING WALL ASSEMBLY (MODIFIED)	EA	1		
46	019592	PRECAST CONCRETE SIGN (TYPE A)	EA	2		
47	019593	PRECAST CONCRETE SIGN (TYPE B)	EA	2		
48	019594	PRECAST CONCRETE SIGN (TYPE C)	EA	2		
49	019595	PRECAST CONCRETE ENTRANCE SIGN	EA	2		
50	019596	BLUE STAR MEMORIAL SIGN	EA	2		
51 (F)	513551	RETAINING WALL STEM (TYPE 6)	SQFT	833		
52	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	4,350		
53	019597	INTERPRETIVE DISPLAY FRAME AND PANEL (STYLE 1)	EA	48		
54	019598	INTERPRETIVE DISPLAY FRAME AND PANEL (STYLE 2)	EA	5		
55	019599	INTERPRETIVE DISPLAY FRAME AND PANEL (STYLE 3)	EA	4		
56	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	110		
57	019600	BUILDING DISPLAY PANEL (TYPE 4A)	EA	24		
58	019601	BUILDING DISPLAY PANEL (TYPE 4B)	EA	20		
59	019602	BUILDING DISPLAY PANEL (TYPE 4C)	EA	8		
60	019603	BUILDING DISPLAY PANEL (TYPE 4D)	EA	12		

**BID ITEM LIST**  
**06-0A9704**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	820131	OBJECT MARKER (TYPE K)	EA	5		
82	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	13,000		
83	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	1,630		
84	840523	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	LF	180		
85	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	76		
86	860811	DETECTOR LOOP	LS	LUMP SUM	LUMP SUM	
87	019619	PRECAST CONCRETE PAVER	SQFT	3,490		
88	019620	BRONZE PLAQUE	EA	32		
89	019621	TILE MOSAIC	SQFT	1,360		
90	994650	BUILDING WORK	LS	LUMP SUM	LUMP SUM	
91	020452	PRECAST CONCRETE RECYCLE CONTAINER	EA	62		
92	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	60		
93	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	80		
94	020453	SUN SCREENS	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

\$ \_\_\_\_\_