Maryland
Transportation
Authority

Martin O'Malley
Governor

Anthony Brown
Lt. Governor

Beverley Swaim-Staley
Chairman

Peter J. Basso
Rev. Dr. William C. Calhoun, Sr.
Mary Beyer Halsey
Louise P. Hoblitzell
Richard C. Mike Lewin
Isaac H. Marks, Sr., Esq.
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March 1, 2010

TO ALL PURCHASERS OF CONTRACT DOCUMENTS:

Contract No. BB 2042-000-002
Bay Bridge Facilities Fuel Tank Replacement
William Preston Lane, Jr. Memorial Bridge
Anne Arundel County

ADDENDUM NO. 2

To Whom It May Concern:

It is important that you acknowledge receipt of this Addendum No.2 on the referenced contract regardless if you will be bidding or not bidding.

Very truly yours,

Linda D. McGill, CPPB

Linda McGill
Chief Procurement Officer

Enclosures

Contract No. **BB- 2042-000-002**

This will acknowledge receipt of the attached Addendum No. 2.

_____
NAME OF COMPANY

_____ _____
SIGNATURE DATE

THIS SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE SHALL BE RETURNED TO THIS OFFICE VIA **FAX AT 410-537-7801,** ATTENTION: MAGGIE JOHNSON PRIOR TO THE BID OPENING DATE.

IN ADDITION, THIS SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE MUST BE ATTACHED TO THE OUTSIDE COVER OF THE BID BOOK. FAILURE TO DO SO MAY RESULT IN REJECTION OF YOUR BID.

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March 1, 2010

TO ALL PURCHASERS OF CONTRACT DOCUMENTS:

Contract No. BB 2042-000-002
Bay Bridge Facilities Fuel Tank Replacement
William Preston Lane, Jr. Memorial Bridge
Anne Arundel County

ADDENDUM NO. 2

To Whom It May Concern:

Note that the bids are still due at 12 noon, March 11, 2010.

A. The following changes are made to the Invitation for Bids book

1) Delete pages 1, 89-106, 226 and 241 and insert with the attached revised pages numbered the same, dated March 1, 2010, Addendum No. 2
2) Insert attached new pages numbered 106A-106V dated March 1, 2010, Addendum No. 2

B. The following changes have been made to the Contract Drawings:

1) Replace Sheet Nos. 1, 14, 15, 16, 22 and 23 with new sheets numbered the same, dated March 2010, Addendum No. 2

C. Included herein are the minutes from the pre-bid meeting held on February 3, 2010.

D. Also included herein, are the responses to questions received to date.

Very truly yours,

Linda McGill
Chief Procurement Officer

THE SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE MUST BE ATTACHED TO THE OUTSIDE COVER OF THE BID BOOK. FAILURE TO DO SO MAY RESULT IN REJECTION OF YOUR BID.

SP 1-1 PROJECT DESCRIPTION

CONTRACT NO.:	BB 2042-000-002
TITLE:	Bay Bridge Facilities Fuel Tank Replacements
FACILITY:	William Preston Lane Jr., Memorial Bridge (US 50 / US 301)
LOCATION:	Anne Arundel County
ADVERTISED:	**January 19, 2010**
PRE-BID MEETING:	9:30 a.m. on February 3, 2010 in the Conference Room at the Maryland Transportation Authority, 300 Authority Drive, 1st Floor, Engineering Building, Baltimore, MD 21222
PROJECT CONTACT:	Project Manager: Mr. Doug Novocin (410)-537-7840 Contract Administration: Ms. Maggie Johnson (410)-537-7807
BIDS DUE:	**12:00 Noon on March 11, 2010** in the Bid Box on the 1st floor of the Maryland Transportation Authority, Engineering Building, 300 Authority Drive, Baltimore, MD 21222
CLASSIFICATION:	Class C ($500,001 – $1,000,000)
CONTRACT TIME:	One Hundred and Eighty (180) Calendar Days
LIQUIDATED DAMAGES:	**$300.00 per Calendar Day**
MINIMUM MBE GOALS:	25% Overall
BID DOCUMENTS:	**$60.00** - Bid documents can be purchased between 7:30 a.m. and 3:30 p.m., Mondays, Wednesdays, Thursdays and Fridays and between 10:00 a.m. and 4:00 p.m. on Tuesdays at the Ticket Office located at the Francis Scott Key Bridge, Maryland Transportation Authority, Administration Building, 303 Authority Drive, Baltimore, MD 21222.

SECTION 1000
EQUIPMENT

SECTION 1002 – FUEL STORAGE AND DISPENSING EQUIPMENT

Part 1 - DESCRIPTION

This and the two Sections following this Section specify the fuel storage and dispensing equipment. There are two options provided for the provision and installation the equipment following this Section:

Section 1002A for Concrete Vault Alternate and,
Section 1002B for Steel Tank Alternate.

The Contractor shall choose either Section 1002A or Section 1002B for this contract. The alternate chosen shall apply to all fuel storage and dispensing equipment under this contract.

SECTION 1000
EQUIPMENT

SECTION 1002A – FUEL STORAGE AND DISPENSING EQUIPMENT – CONCRETE VAULT ALTERNATE

Part 1 - DESCRIPTION

A. SUMMARY

1. This Section specifies the concrete vault alternate for fuel dispensing equipment and is defined to include, but not necessarily be limited to:
    a. Provide a complete fuel dispensing equipment system at location indicated on the Contract Drawings;
    b. Acceptance testing;
    c. Training of the Maryland Transportation Authority (Authority) personnel; and
    d. Maintenance of the system during the warranty period.

2. Provide concrete vaulted aboveground tank system approved for listing under U.L. Standard 2085, Aboveground Tanks, Protected Type, Secondary Containment with Vehicle Impact and Projectile Resistance. Unit must comply with all provisions of U.F.C. 79-7, Appendix A-II-F. The tank and its enclosure shall be a completed unit at the factory (shop fabricated). The tank system shall be approved for Phase I and Phase II Vapor Recovery by the California Air Resource Board for gasoline and methanol.
3. The work consists of providing one (1) 8,000 gallon steel, concrete encased aboveground storage tank (AST) fueling system split internally to two (2) compartments- 2,000 and 6,000 gallons- with factory-installed equipment and appurtenances as specified herein and as shown on the Contract Drawings. The tank system shall be manufactured and assembled by a single manufacturer. This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, and all other incidentals for providing in-place operational fuel dispensers as specified herein and as shown on the Contract Documents.
4. The work consists of providing one (1) 1,000 gallon steel, concrete encased AST fueling system with factory-installed equipment and appurtenances as specified herein and as shown on the Contract Drawings. The tank system shall be manufactured and assembled by a single manufacturer. This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, and all other incidentals for providing an in-place operational fuel dispenser as specified herein and as shown on the Contract Documents.
5. The work consists of providing one (1) 4,000 gallon steel, concrete encased AST and appurtenances as specified herein and as shown on the Contract Drawings.

6. The work consists of providing four (4) submersible pumps in the new 8,000 gallon AST, one (1) submersible pump in the proposed 1,000 gallon AST, and five (5) dispensers as follows: diesel fuel (two - 2), unleaded gasoline (two – 2) and E-85 (one – 1). This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, sumps, liquid sensors, and all other incidentals for providing in-place operational fuel dispensers as specified herein and as shown on the Contract Documents.
7. The work consists of providing above ground piping for the heating oil system (4,000 gallon AST).
8. Provide where shown on the Contract Drawings all equipment, as specified, complete and ready for safe operation. Each item shall be specifically designed for the intended function. Provide necessary accessories, items of equipment, mechanical, electrical, and structural items, whether specified or not in order to provide properly installed and functional equipment.
9. Equipment shall be suitable for installation in the space indicated on the Contract Drawings. Any modification or redesign to the existing structure or utilities required in connection with of an alternate equipment selection by the Contractor shall be provided by the Contractor at no additional cost to the Authority and shall be as approved by the Engineer.
10. The MdTA will provide fuel for the new tanks at no cost to the Contactor. Coordinate delivery of unleaded gasoline, E85 and diesel fuel with Owner.
11. The new 8,000 Gallon gasoline and diesel fuel tanks and dispensing equipment at the Police Facility (Site 1) shall be complete and operable prior to removing the existing gasoline and diesel fueling facility at the Administration Facility (Site 2).
12. Fuel management system including five (5) card readers to control and provide accurate accounting of fuel dispensed.
13. Miscellaneous fuel specialties and accessories including fuel depot safety signs, fire extinguisher, wash bucket and paper towel holder, steel drum trash can and spill containment kit.

B. References

1. American National Standards Institute (ANSI)
   a. ANSI/ASME A13.1 Scheme for the Identification of Piping Systems.
   b. ANSI/ASME B1.20.1 Pipe Threads, General Purpose (inch).
   c. ANSI/ASME B16.10 Face-to-Face and End-to-End Dimensions of Valves.
2. American Petroleum Institute (API)
   a. API RP 1637 using to API Color-Symbol System to Mark Equipment and Vehicles for Product Identification at Gasoline Dispensing Facilities and Distribution Terminals.
   b. Product Identification at Gasoline Dispensing Facilities and Distribution Terminals.

3. American Society for Testing and Materials (ASTM)
   a. *ASTM* A36 Standard Specification for Carbon Structural Steel.
   b. ASTM A48 Standard Specification for Gray Iron Castings.
   c. ASTMA53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated Welded and Seamless.
   d. ASTM A1011 Standard Specification for Steel, Sheet and Strip, Hot Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.
   e. ASTM B209 Standard specification for aluminum and aluminum-alloy sheet and plate.
   f. ASTM C335 Steady State Heat Transfer Properties of Horizontal Pipe Insulation.
   g. ASTM C547 Standard Specification for Mineral Fiber Pipe Insulation.
   h. ASTM C332 Standard Specification for Lightweight Aggregates for Insulating Concrete.
   i. ASTM C495 Standard Test Method for Compressive Strength of Lightweight Insulating Concrete.
4. American Welding Society (AWS)
   a. AWS D1.1 Code for Structural Welding – Steel.
   b. AWS D10.12M/D10.12 Guide for Welding Mild Steel Pipe.
5. ASME International (ASME)
   a. ASME B31.9 Specification for Building Services Piping.
6. Code of Maryland Regulations (COMAR)
   a. COMAR 26:10 Oil Pollution and Tank Monitoring.
   b. COMAR 26:11 Air Management.
7. Maryland Department of Transportation State Highway Administration (MDSHA)
   a. Standard Specifications for Construction and Materials, issued July 2008, with latest revisions apply to work included in this Section.
8. Manufacturers Standardization Society (MSS)
   a. MSS SP-69-2003 Pipe Hangers and Supports - Selection and Application.
9. National Fire Protection Association (NFPA)
   a. NFPA 30 Flammable and Combustible Liquids Code.
   b. NFPA 30A Motor Fuel Dispensing and Repair Garages.
   c. NFPA 31 Standard for the Installation of Oil-Burning Equipment.
   d. NFPA 70 National Electrical Code.
   e. NFPA 704 Standard System for the Identification of Hazards of Materials for Emergency Response.
   f. NFPA 780 Standard for the Installation of Lightning Protection Systems.
10. National Institute of Standards and Technology.

a. Handbook 44-2007 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.

11. OSHA: Occupation Safety and Health Act. 29 CFR 1956.

12. Petroleum Equipment Institute (PEI)
    a. PEI/RP200-03 Recommended Practice for Installation of Aboveground Storage Systems for Motor Vehicle Fueling.
    b. PEI/RP100-2000 Recommended Practice for Installation of Underground Liquid Storage Systems.

13. UFC: Uniform Fire Code, 2000 Edition.

14. Underwriters Laboratories, Inc. (UL)
    a. UL-79 Power Operated Pumps for Petroleum Dispensing Products.
    b. UL-87 Standard for Power-Operated Dispensing Devices for Petroleum Products.
    c. UL-142 Steel Aboveground Tanks for Flammable and Combustible Liquids.
    d. UL 353 Limit Controls.
    e. UL-467 Grounding and Bonding Equipment.
    f. UL-536 Standard for Flexible Metallic Hose.
    g. UL-842 Valves for Flammable Fluids.
    h. UL-568C Power Conversion Equipment.
    i. UL-971 Nonmetallic Underground Piping for Flammable Liquids.
    j. UL-2085 Protected Aboveground Tanks for Flammable and Combustible Liquids, Protected Type.
    k. UL-2244 Aboveground Flammable Liquid Tank Systems.

15. California Air Resources Board – CP-206, Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Aboveground Storage Tanks, May 2008

16. Applicable federal, state, and local codes and regulations.

C. QUALITY ASSURANCE

1. Work shall conform to federal, state, and local governing rules and regulations and ordinances, including OSHA and NFPA requirements, and shall pass inspection by the authorities having jurisdiction.

2. Work shall conform to current versions of locally adopted codes.

3. System Responsibility: Vested responsibility for designing, coordinating, and furnishing the system specified herein, and for initial operation is that of the tank manufacturer or of it qualified, factory authorized representative, herein referred to as the tank supplier.

D. SUBMITTALS

1. Submit shop drawings, catalog cuts, and manufacturer's data covering all equipment covered in this section. Submit the following for review and approval:
   a. *Shop drawings.*
   b. *Product data:* For each type of product indicated, include construction details, material descriptions, and dimensions of individual components and profiles. The intended use of each component that is listed should be included in the description portion of the submission. Also include, where applicable, rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
      1) *Piping specialties:* Include items such as bulkhead fittings, hose adaptors, swivel pipe adaptors, fill caps adaptor, drop tubes, tank vents, tank bottom protectors, etc.
      2) *Valves:* Include pressure rating, capacity, and electrical connection of selected model where applicable.
   c. *Design calculations.*
   d. *Installation instructions.*
   e. *Operations and maintenance manuals.*
   f. *Training program.*
   g. *Manufacturer's Written Warranty*

2. Submit pumping equipment manufacturer's certification that the equipment supplied meets or exceeds the requirements of the Contract Documents.

E. JOB CONDITIONS

1. The Contractor's equipment and proposed materials shall be at least of the same level of quality as that indicated and specified.

2. Work includes furnishing and installing of ASTs, submersible turbine pumps, suction piping, sumps, dispensers, liquid sensors, level probes, interstitial sensors, shut-off valves, check valves, separator-lubricator assemblies, distribution piping and fittings, fuel hose reel assemblies including support framing, control handles, meters, pump systems, and all other work and material to provide an approved working installation as specified and as shown in the Contract Documents.

3. The various component parts shall function together as a workable fuel dispensing system, complete with everything necessary for its operation and with all equipment properly adjusted and in working order. Unless otherwise specified, any materials described, shown, reasonably

implied, or obviously a part of the system and necessary to its complete finish and perfect operation shall be furnished and installed, without extra charge. The Contract Drawings and the Contract Specifications are intended to supplement each other, and any item set forth in either shall be recognized as the same as if fully set forth in both.

4. The Contractor shall be responsible for establishing all pipe sizes and materials, component locations, type and quantities, mounting requirements and hardware, equipment selection, and all other design parameters necessary to provide a complete operable fuel dispensing system as described in the Contract Documents.

5. Site Information: Subsurface conditions were investigated during the design of the project. Reports of these investigations are available for informational purposes only; data in reports are not intended as representations or warranties of accuracy continuity of conditions (between soil borings). The Authority assumes no responsibility of interpretations or conclusions drawn from this information.

F. DELIVERY, STORAGE AND HANDLING

1. Delivery, storage and handling of all fuel dispensing system components shall be in accordance with manufacturer's written instructions.

G. WARRANTY

1. The Contractor shall guarantee its work, material, and equipment and the other Contract performances, and shall remedy, without cost to the Authority, any defects which may develop therein during a period of one year from the date of the Authority's acceptance of the project. The Contractor shall, at its expense, repair or replace any component or equipment that has malfunctioned or has become defective as a result of improper installation. The Contractor's corrective actions shall ensure continuance of the manufacturer's warranty to include recertifying to the manufacturer's requirements.
2. Provide tank manufacturer's 30-year written warranty. This warranty shall cover all defective materials and workmanship of the steel and concrete vaulted tank system. This warranty shall also cover the interior and exterior material, encasement, and coatings from corrosion, cracking, flaking, spalling, discoloration, or deterioration.

3. Provide dispenser manufacturer's 2-year warranty.

PART 2 - MATERIALS

A. ABOVEGROUND STORAGE TANKS

1.Provide one (1) 8,000 gallon concrete encased AST, one (1) 1,000 gallon concrete encased AST, and one (1) 4,000 gallon concrete encased AST as indicated on the Contract Drawings and specified herein.

2.*Primary Tank:* The primary tank shall be rectangular in shape, constructed with a minimum of 10 gage thick carbon steel, listed in accordance with UL-2085. The 2-hour fire rating shall exceed all requirements of NFPA 30 and 30A for "fire resistant" tanks and meet the requirements of UFC Articles 52 and 79, Appendix II-F and Appendix Standard A-II-F-1 for "protected" aboveground tanks. The tanks shall comply with PIE/RP200-03.

3.*Concrete Encasement:* The concrete encasement shall be 6" thick with a minimum design strength of 4000 psi. Concrete enclosure shall encase and protect both the primary steel tank and the secondary containment. The concrete design shall include the following for long-term durability: less than 3% air entrainment, water-reducing admixture, and steel reinforcing bars. Concrete placement shall be monolithic (without seams) and placement methods shall ensure the absence of voids on all sides and beneath the steel tank. An exterior steel jacket covering the concrete vault will NOT be permitted. The steel tank shall be prestressed at factory by pressurizing the primary steel tank to 5 psi during concrete encasement to allow for expansion and contraction of the primary steel tank. Vault enclosure shall have concrete support legs of unitized monolithic construction raising the concrete enclosure a minimum of 3" above the ground to meet visual inspection requirements. A mid-level seam or other joint construction which could compromise the liquid tightness (secondary containment) and fire protection capability of the vault is not permitted.

4. *Fire Resistance:* The tank system shall be designed and tested to provide 2 hour fire protection for the primary tank as per U.L. 2085 2-hour furnace fire test and 2 hour simulated pool fire test. No steel members shall penetrate the walls or floor of the concrete encasement to assure isolation from pool fire heat.

5. *Thermal and Corrosion Protection:* The tank construction shall include thermal insulation equivalent to .25 inches of polystyrene to protect against temperature extremes, and to protect against corrosion by isolating the steel tank from the concrete or other corrosive material. All steel exterior to the concrete encasement shall be anti-oxidant powder coated to inhibit corrosion and meet A.S.T.M. B117.

6. *Secondary Containment with Leak Monitoring:* The tank system shall include an impervious barrier of 30 mil high-density polyethylene to contain leaks from the primary tank. A monitoring tube shall be located between the inner tank and secondary barrier.

7. *Fill Systems*: Two (2) tank fill systems shall be provided on the 8,000 gallon tank and one on the 1,000 gallon tank. Each system shall be side-mounted on the tank at locations as shown on the Contract Drawings. The fill connections shall be accessible from ground height without the need for stairs

or ladders. The system shall be suitable for use with low pressure hose delivery and have suitable fixtures and valves to prevent spillage.

8. *Spill/Overfill Containment:* The tank system shall include a U.L. listed 7-gallon spill/overfill container manufactured as an integral part of the primary tank, surrounding the fill pipe, and protected by 2 hour fire rating of the enclosure. The spill/overfill container shall include a stick port and normally closed valve to release spilled product into the main tank. Exterior steel shall be anti-oxidant powder coated to inhibit rust.

9. *Overfill Protection:* Overfill protection shall be provided by the following methods: a) direct reading level gauge visible from fill pipe access; b) valve rated for pressurized delivery located within fill pipe to close automatically at 95% full level; c) high level alarm.

10. *Exterior Finish:* The tank system shall be a low maintenance exposed aggregate or architectural (STO, Permacrete, Thorocoat) exterior concrete finish. Fiber clad steel, or painted steel vault tanks are not acceptable.

11. *Signage:* Tanks shall be marked on all sides as per state and local codes. Signs will be recessed in concrete exterior to insure against damage during off-loading, refilling or general functions.

12. *Venting:* Tank system shall include a 2" atmospheric vent and emergency venting in accordance with N.F.P.A. 30.

13. The fueling system shall be designed to meet or exceed the minimum requirements of NFPA Sections 30 and 30A, the UFC, and the NEC.

14. Tank dimensions:

    a. 8,000 Gallon Tank Design Criteria:
       1. Tank storage volume: 8,000 gallons
       2. Maximum tank dimensions: 8'-0-1/2" wide by 8'-9-3/4" high by 23'-1-1/2" long.
       3. Approximate weight of empty tank: 72,000 pounds.
       4. The tank shall be split internally to provide storage for 2,000 gallons of diesel fuel and 6,000 gallons of unleaded gasoline. An air gap shall separate the two storage compartments.
       5. Tank shall include 4 dispensers and 4 card readers (2 for diesel and 2 for gasoline) mounted where shown on the plans.

    b. 1,000 Gallon Tank Design Criteria:
       1. Tank storage volume: 1,000 gallons
       2. Maximum tank dimensions: 5'-0-1/2" wide by 4'-4" high by 11'-0" long.
       3. Approximate weight of empty tank: 18,000 pounds.
       4. Tank shall be designed to store 1,000 gallons of E-85 ethanol/gas fuel.

5. Tank shall include 1 dispenser and one card reader.

c. 4,000 Gallon Tank Design Criteria:
   i. Total tank storage volume: 4,000 gallons.
   ii. Maximum tank dimensions: 8'-0-1/2" wide by 8'-9-3/4" high by 17'-7-1/2" long.
   iii. Tank's approximate weight: 48,000 pounds.
   iv. Tank shall be designed to store 4,000 gallons of heating oil.

B. SUBMERSIBLE TURBINE FUEL PUMPS

1. Pumps:

a. Description: Provide a total of four (4) UL-listed ¾ hp submersible turbine pumps for the gasoline and diesel tank (one pump for each dispenser) and a single UL-listed 1/3 hp submersible turbine pump for the E-85 tank.
b. The entire pumping assemblies shall have UL listing and shall meet all requirements of UL-79. The entire pumping assembly for the E-85 fuel shall have UL listing for use with E-85 fuel.
c. Pumps shall be multi-stage, self-lubricating, and easily removed from tank without disconnecting discharge piping, mechanical or electronic leak detectors, or siphon systems. The pump and motor assembly shall be readily separable from the pump column pipe to allow for simple field replacement of the pump and motor.
d. Impellers shall be splined to the pump shaft to provide positive, non-slip rotation. Diffusers shall be tightly secured to prevent rotation.
e. The motor assembly height shall be field adjustable utilizing a UL-listed telescoping shaft and set to a minimum of five (5) inches from the bottom of the tank.
f. Manifold head assembly shall consist of a manifold and extractable packer assembly and shall be completely sealed against product leakage into the ground and exterior water leakage into the storage tank. The discharge outlet shall be a standard 2-inch NPT opening. The manifold shall have a built-in air purge screw, line check valve, and pressure relief valve, and shall support dual vacuum sensor siphon systems.
g. The contractor's box shall be built into the manifold head assembly and be completely isolated from the fuel path. The extractable packer assembly shall incorporate a lifting eye for safe extraction of the pump motor.
h. The electrical disconnect shall be an integral part of the manifold assembly. The electrical disconnect shall automatically disconnect and sever electrical connection to the pump motor, without a swing joint, when the extractable packer assembly is removed.
i. The pumps shall include an integral check valve and line leak detector to hold operating pressure at 30 psi to minimize loss of pressure due to thermal contraction. The line leak detector shall restrict fuel flow if line pressure is lost or line product loss exceeds 3.0 gph The check valve shall incorporate a feature that mechanically locks the check valve and lifts to provide a larger path to depressurize the line and manifold head assembly, returning fuel to

the tank to prevent service spills. The check valve shall provide pressure relief of the product line. The check valve seat shall be constructed of bronze. Contractor shall provide a 3-second on-delay relay for each dispenser solenoid valve to minimize line leak checking intervals.

j. The vacuum sensor siphon system shall be capable of drawing 25 inches of mercury vacuum through a venturi. The vacuum sensor siphon shall incorporate a one-piece rubber check valve to maintain the siphon system vacuum after the pump has been turned off. Check valves shall be incorporated on the siphon inlet and fuel source inlet to the venturi. The inlet shall incorporate a screen that reduces clogs and failures that can cause false alarms on vacuum monitor systems. The vacuum sensor siphon system shall incorporate a swivel top for easy connection to siphon tubing.

k. The pump discharge head and manifold assembly shall be manufactured from ASTM A48 Class 30 gray cast iron.

l. The pumping unit shall not incorporate any flexible diaphragms and all sealing shall be accomplished with rings constructed of fluorocarbon or UL-recognized fiber gaskets.

m. The pump motors shall be 208/230-volt, 60-Hertz, single-phase, 3,450 RPM, permanent split capacitor type continuous duty, rated explosion proof in a Class I, Group D environment as defined in NFPA 70. The motor windings shall be hermetically sealed against leakage of product or moisture, and shall have a thermal overload device with automatic reset built into the motor windings for motor cut-off when motor temperature reaches a level which may cause damage to the motor.

n. The motor shall have a quick-disconnect type male/female connector to be readily separable for servicing without cutting or splicing of conducting wires. Wiring connections to the motor shall be disconnected by the quick-disconnect. Reconnecting motor to column pipe shall use an alignment dowel pin for positive realignment of electrical male/female connector.

o. The pump motor assembly shall be clearly marked with pertinent information including horsepower, voltage, phase, and manufacturer.

p. The pump motor shell and rotor shaft shall be constructed of stainless steel Type 304 (outer) and Type 301 (stator), and motor bearings shall be constructed of carbon.

q. All components shall be designed and assembled to facilitate disassembly and servicing from above without disrupting the discharge piping, leak detection equipment and vacuum sensor siphon systems.

r. All piping and valves shall comply with NFPA 30 and 30A.

b. Design Criteria:

a. Capacity: ¾ hp 65 gpm at 28psi and 1/3 hp 40 gpm at 31 psi

c. *Controls:* Provide a pump control box for each submersible pump. The pump control box (Red Jacket Model 880-041-9) shall provide inductive motor switching as well as pump permissive for the dispenser, CFN PCU, and the ATG. Pump control panel shall comply with UL-353 and UL-508C.

d. Acceptable manufacturers:
   a. E-85 Fuel: Franklin Fueling Systems, Red Jacket Pumps Division of Veeder-Root Company;
   b. Unleaded and Diesel Fuel: Franklin Fueling Systems, Red Jacket Pumps Division of Veeder-Root Company.
   c. Or approved equal.

C. DISPENSERS

Provide five (5) UL-listed dispensers to deliver E-85 fuel, unleaded gasoline, and diesel fuel with the following features and capabilities:

1. *Maufacturer:* Pump dispensers shall be the Reliance S1 by Dresser-Wayne or equal.

2. *Compatibility:* For dispensing low viscosity petroleum fuels - diesel, including biodiesel blends up to 20%; E85, and gasoline, including standard oxygenated blends.

3. *Performance:* Up to 22 GPM.

4. *Register:* Non-computer mechanical register with power reset with interlock. Up to 999.9 gallons per delivery. Non–resettable accumulative totalizer up to 9999999.9.

5. *Meter:* Micro-accurate 2-piston positive displacement design. Weights & Measures sealable.

6. *Solenoid Valve:* 1" two-stage valve.

7. *Electrical:* 115VAC, 60 Hz.

8. *Inlet Connection:* 1½" NPT. Bottom access hole sized for 1½" emergency valve installation.

9. *Discharge:* 1" with ¾" reducing bushing.

10. *Mounting:* Tank or shelf-mount.

11. *Cabinet Construction:* All panels shall be fabricated from galvannealed steel for corrosion resistance. Front door shall be lockable and removable for service. Sides and top shall be removable for additional service access.

12. *Cabinet Finish:* Durable all weather powder-coated finish.

13. *Nozzle Boot and Hook:* Fits standard U.L. interchangeable nozzles and Dresser Wayne short spout vapor recovery nozzles. Lift-to-start nozzle hook. Fleet Fueling Group

14. *Hose Hanger:* Keeps hose off ground when not in use.

15. *Actual Dimensions:* Approximately 16"W x 14"D x 29"H

16. *Pressure:* Working pressure up to 50 psi.

17. *Pulsers:* Convert register revolutions to electrical pulses for connection to fuel management systems. 10:1 and 100:1 ratio options.

18. *Hose Mast Kit:* Compatible with equipment selected.

19. *External Filter:* Installed on discharge.

20. *Signage:* Each dispenser shall be clearly labeled: Unleaded Gasoline, Diesel, or E-85.

D. FUEL DISPENSING PIPING AND FITTINGS

1. Provide fuel piping as shown on the Contract Drawings and as specified in this Section.

2. All aboveground piping shall be black carbon steel schedule 40 in accordance ASTM A53, Type S, Class B, in the nominal size indicated in the Contract Documents. Hangers, supports and accessories used shall be applied in accordance with the manufacturer's recommendation for type of service and application and in accordance with MSS SP-69-2003. All hangers, supports, and accessories shall be hot-dip galvanized.

3. Plastic to Steel Pipe Transition Fittings: Factory-fabricated fittings with plastic end matching or compatible with carrier piping, and steel pipe end complying with ASTM A53, black steel, Schedule 40, Type E or S, Grade B.

4. Flexible entry termination boots shall be provided where ducting terminates at secondary containments and sumps. All termination boots shall be air testable to confirm leak tight integrity over the life of this component.

    a. Acceptable manufacturers:
        1) APT Division of Franklin Fueling Systems;
        2) Or approved equal.

5. Clamshell Secondary Test Boots shall be provided wherever non-ferrous piping penetrates a sump or other secondary containment to permit testing of the interstitial space between the primary and secondary layers of the double-walled pipe.

    a. Acceptable manufacturers:
        1) APT Division of Franklin Fueling Systems;

2) Or approved equal.

6. Joining Materials:

   a. *Joint compound and Teflon tape suitable for fuel.*
   b. *Acceptable manufacturers:*
      1) Loctite 567 manufactured by Henkel Technologies;
      2) Or approved equal.

E. PIPE SUPPORTS

1. Hangers, supports and accessories used shall be provided in accordance with the manufacturer's recommendation for type of service and application. All hangers, supports, and accessories shall be hot-dip galvanized.

F. EMERGENCY SPILL KIT

The Contractor shall provide one emergency spill kit as specified in this Section.

1. *Contents:*

   50 - Absorbent Pads
   12 - Absorbent Socks (3"x48")
   2 - Absorbent Pillows
   1 - Pair Goggles
   1 - Pair Nitrile Gloves
   3 - Disposal bags

2. *Container:*

   Drum size - 21.125"x28.5" 30 gallon Yellow polyethylene container with screw-on lid with gasket, weatherproof, UV inhibitors and is chemical resistant to most materials.
   Absorbs 25 Gallons

3. *Manufacturer/ Supplier:*

   AbsorbentsOnline.com
   PCI Products Company
   4195 Chino Hills Pkwy., #360
   Chino Hills, CA 91709

G. AUTOMATIC TANK GAUGING AND LEAK DETECTION SYSTEM

1. *Manufacturer:* OMNTEC Manufacturing, Inc., 1993 Pond Road, Ronkonkoma, NY 11779.

2. Model OEL8000II.

3. *Function:* Monitors product levels, water levels, temperatures, and leaks for up to 8 tanks.

4. *Features:* 4 RS-232 ports, 1 RS-485 port, FAX/modem compatible, 4-line by 40 character backlit LCD display, accepts up to 6 interface boards, battery backup, CITLD upgradable, UL-listed.

5. *Specifications:* 36-character thermal printer, 100-240 VAC, 50/60 Hz, 50 watts. 14,400 baud modem, audible alarm, 20 key oil resistant tactile key pad, 3 LEDS (OK, Fault, alarm), shielded BX series 22 AWG sensor cable with drain wire, MTG probes, OMNTEC EC-2 shielded Belden #8791 low inductance (< 0.2 microhenries per foot).

6. *Sensors:* OMNTEC, Bright Eye (BX-Series), 4 wire buss, network compatible.

H. FUEL MANAGEMENT SYSTEM

Description: The purpose of the system is to control and provide accurate accounting of all fuel and related products being dispensed. The system, in recording each transaction shall identify the driver, the vehicle, the day and time of the transaction, and the type and amount of fuel dispensed. Access to products shall be restricted to persons holding valid cards and who perform a predetermined series of data entry operations. The system provided shall be compatible with existing Authority fuel management system currently in use at other sites and shall be capable of processing dual hose use simultaneously from the same dispenser. The fuel management system shall be compatible with the existing Authority system and coordinated through Commercial Fuel Systems. (301-829-0875) The current system is a Gasboy model CFN-1.

System Equipment: The system shall be comprised of the following components:

1. *The Card Readers:* The five (5) card readers shall be the only piece of equipment in the system to which users shall have access. It shall provide clear and concise prompting to the user.
2. *The Micro-Computer:* The major control component for the system shall be a microprocessor based unit to be designed and constructed with state-of-the-art technology.

3. *The Control Cabinet:* The control cabinet shall be keyed accessed and located adjacent to the micro-computer cabinet. This cabinet shall house the relays through which electrical power to the pumping devices is controlled.

4. *Data Terminal:* The data terminal shall be the device through which on-site communication with and control of the system shall be affected. The data terminal shall be located inside the building and will allow authorized personnel to activate the terminal through the use of a security key.
5. *Printer:* The printer shall be located adjacent to the data terminal which:
    i. Shall operate as an on-line device to record transaction data in real time as each fuel transaction is completed.
    ii. Shall operate in conjunction with the data terminal as a self-prompting device for on-site data entry and display.
6. *Transaction Recorder:* A transaction recording device shall be located adjacent to the data terminal and printer which:
    i. Shall record all transaction data in non-volatile solid state memory such that in the event of power failure no data will be lost.
    ii. Shall indicate through a series of LED displays its status and operation mode for diagnostic purposes.

PART 3 - EXECUTION

A. INSTALLATION

1. Manufacturer will have a minimum of 5 years experience in producing specified tank for commercial use and document at least 10 installations in satisfactory operation.

2. The tank system including accessories shall be installed in strict accordance with the manufacturer's recommendations and applicable fire and environmental codes. All state and local permits shall be obtained by contractor prior to installation.

3. Tanks shall be installed on a reinforced concrete base slab designed to support the fully loaded tank. Protective bollards shall be installed where required by state and local codes.

4. Tanks shall be marked on all sides with warning signs: "FLAMMABLE" or "COMBUSTIBLE", "NO SMOKING", product identification, a NFPA rating label, and other signs as required by applicable codes.

5. Electrical work shall be in accordance with applicable codes and shall be rated for hazardous area as required. Electric feed for dispensing pumps shall include an emergency shutoff switch

located per code requirements. Tanks shall be electrically grounded in accordance with N.F.P.A. 78.

6. The system installation shall be inspected and approved by the system supplier or its certified contractor. The system supplier shall submit a comprehensive checklist of quality and safety items critical to the system and verify that the installation has been in accordance with these standards and applicable fire and environmental codes.

B. EQUIPMENT TEST AND CHECK-OUT

1. The equipment shall be tested in the presence of the Authority's Representative to his/her satisfaction and demonstrated to be correctly connected and installed. Submit a testing schedule to the Authority for approval prior to the start of the equipment test and check-out.

2. Testing and check-out procedures of the manufacturer shall be carried out completely.

3. Equipment tests shall not only be performed to demonstrate that the equipment has been properly installed and connected and operates properly, but also to demonstrate that the equipment performs the work for which it is intended.

4. Tested equipment found to be defective or inoperable to any extent shall be reported to the Authority immediately.

5. Any operating difficulty or defective item shall be repaired or replaced and put into proper operation by the Contractor immediately, at no additional expense to the Authority.

6. Contractor shall protect equipment and surrounding areas from damage resulting from testing operations, and shall clean-up any spills or leakage resulting from testing.

7. Contractor shall bear all expenses of all tests, including the furnishing of all necessary instruments, lubricants, hydraulic fluid, supplies, data recorders, and operation personnel. Provide and bear all expenses for fuel/power required to operate the equipment during the tests.

8. Perform testing of the equipment and system in accordance with the requirements specified in Contract Documents. Perform and document all testing procedures recommended by the manufacturer. Include the following tests:
   a. Test system performance by measuring quantity of product dispensed over time at each designated "TEST" fluid and semi-solid control handle. Minimum measured output over time shall meet of exceed the "Minimum Delivery Rate" for the corresponding fluid as specified. Tests shall be performed three (3) times within a span of five (5) minutes at each control handle.

b. Test meter at each metering control handle by measuring volume of product dispensed. Measured volume of product dispensed shall correspond with volume of product indicated on meeting control handle within +/-0.65 percent of full dial range.
c. Test each hose reel for proper extension and retraction.

9. At the sole discretion of the Engineer, the Contractor may be required by repeat any tests, at no cost to the Authority.

10. Contractor shall perform the following tests to demonstrate fueling system features and compliance:
    a. Piping Tightness: Air test at 50 psig for one hour, soap all joints;
    b. Tank Tightness: Per manufacturer's written instruction;
    c. Dispenser meter calibration shall be per NIST Handbook 44;
    d. Shear Valve: Contractor shall demonstrate no flow when tripped;
    e. Liquid level gauges: Gauges shall be calibrated per manufacturer's directions and shall be compared with manual gauges;
    f. Interstitial Sensor: Contractor shall simulate leak and verify alarm response;
    g. Overfill Prevention Alarm: Contractor shall verify setting at 90 percent of tank capacity;
    h. Grounding Continuity: From tank ground rod to dispenser nozzle;
    i. Emergency Stop Switch: Contractor shall activate and verify all circuits are disconnected from the source; and

C. INSPECTION AND TRAINING

1. The system installation shall be inspected and approved by the Engineer. The Engineer shall submit a comprehensive checklist of quality and safety items critical to the system and verify that the installation has been in accordance with these standards and applicable fire and environmental codes.

2. Contractor shall be responsible to repair any quality or safety items, as found by the Engineer, at no cost to the Authority.

3. Contractor shall be responsible to provide as a minimum two (2) 2-hour training sessions of complete system operation and maintenance. The Contractor shall coordinate the session dates with the Authority.

PART 4 - MEASUREMENT AND PAYMENT

A. INSTALLATION OF ABOVEGROUND STORAGE TANKS

1. Installation of 4,000 gallon heating oil AST and modifications to the existing interior piping system in the Administration Building shall not be measured for payment.

2. All work for the installation of 4,000 gallon heating oil AST and modifications to the existing piping system in the Administration building shall be included in the Lump Sum Price for "*4,000 Gallon Aboveground Heating Oil Storage Tank and Appurtenances (Site 2)*" indicated on the Bid Form.
3. Installation of 8,000 gallon (6,000 gal gasoline and 2,000 gallon diesel fuel) AST at the Police facility (Site 1) shall not be measured for payment.
4. All work for the installation of 8,000 gallon AST at the Police facility shall be included in the Lump Sum Price for "*8,000 Gallon Aboveground Fuel Storage Tank With Two Cells, Dispensers, Pumps, and Appurtenances (Site 1)*" indicated on the Bid Form.
5. Installation of 1,000 gallon (E85 Ethanol mix fuel) AST at the Police facility (Site 1) shall not be measured for payment.
6. All work for the installation of 1,000 gallon AST at the Police facility shall be included in the Lump Sum Price for "*1,000 Gallon Aboveground Fuel Storage Tank With Dispensers, Pumps, and Appurtenances (Site 1)*" indicated on the Bid Form.

B. INSTALLATION OF PIPING AND ACCESSORIES

a. Installation of piping and accessories for the 4,000 gallon heating oil AST at the Administration Building shall not be measured for payment.

b. All work for the installation of piping both exterior and interior to the Administration Building including wall openings and sleeves, interior supports, reconnections, removal of abandoned pipe, and testing shall be including in the Lump Sum Price for the *"4,000 Gallon Aboveground Heating Oil Storage Tank and Appurtenances (Site 2)"* indicated on the Bid Form.

END OF SECTION

SECTION 1000
EQUIPMENT

SECTION 1002B – FUEL STORAGE AND DISPENSING EQUIPMENT – STEEL TANK ALTERNATE

Part 1 - DESCRIPTION

A. SUMMARY

1. This Section specifies the steel tank alternate for fuel dispensing equipment and is defined to include, but not necessarily be limited to:
   a. Provide a complete fuel dispensing equipment system at location indicated on the Contract Drawings;
   b. Acceptance testing;
   c. Training of the Maryland Transportation Authority (Authority) personnel; and
   d. Maintenance of the system during the warranty period.

2. Provide aboveground double walled steel tank system approved for listing under U.L. Standard 2085, Aboveground Tanks, Protected Type, Secondary Containment with Vehicle Impact and Projectile Resistance. Unit must comply with all provisions of U.F.C. Articles 52 and 79, Appendix II-F and Appendix A-II-F-1 for "protected" aboveground tanks. The tank and its enclosure shall be a completed unit at the factory (shop fabricated). The tank system shall be approved for Phase I and Phase II Vapor Recovery by the California Air Resource Board for gasoline and methanol.

3. The work consists of providing one (1) 8,000 gallon double walled – steel aboveground storage tank (AST) fueling system split internally to two (2) compartments- 2,000 and 6,000 gallons- with factory-installed equipment and appurtenances as specified herein and as shown on the Contract Drawings. The tank system shall be manufactured and assembled by a single manufacturer. This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, and all other incidentals for providing in-place operational fuel dispensers as specified herein and as shown on the Contract Documents.

4. The work consists of providing one (1) 1,000 gallon double walled steel AST fueling system with factory-installed equipment and appurtenances as specified herein and as shown on the Contract Drawings. The tank system shall be manufactured and assembled by a single manufacturer. This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, and all other incidentals for providing an in-place operational fuel dispenser as specified herein and as shown on the Contract Documents.

5. The work consists of providing one (1) 4,000 gallon double walled steel (AST) and appurtenances as specified herein and as shown on the Contract Drawings.

6. The work consists of providing four (4) submersible pumps in the new 8,000 gallon AST, one (1) submersible pump in the proposed 1,000 gallon AST, and five (5) dispensers as follows: diesel fuel (two - 2), unleaded gasoline (two – 2) and E-85 (one – 1). This item shall include all labor, equipment, materials, transport, mounting slab, hose fittings, sumps, liquid sensors, and all other incidentals for providing in-place operational fuel dispensers as specified herein and as shown on the Contract Documents.

7. The work consists of providing above ground piping for the heating oil system (4,000 gallon AST).

8. Provide where shown on the Contract Drawings all equipment, as specified, complete and ready for safe operation. Each item shall be specifically designed for the intended function. Provide necessary accessories, items of equipment, mechanical, electrical, and structural items, whether specified or not in order to provide properly installed and functional equipment.

9. Equipment shall be suitable for installation in the space indicated on the Contract Drawings. Any modification or redesign to the existing structure or utilities required in connection with of an alternate equipment selection by the Contractor shall be provided by the Contractor at no additional cost to the Authority and shall be as approved by the Engineer.

10. The MdTA will provide fuel for the new tanks at no cost to the Contactor. Coordinate delivery of unleaded gasoline, E85 and diesel fuel with Owner.

11. The new 8,000 Gallon gasoline and diesel fuel tanks and dispensing equipment at the Police Facility (Site 1) shall be complete and operable prior to removing the existing gasoline and diesel fueling facility at the Administration Facility (Site 2).

12. Fuel management system including card readers to control and provide accurate accounting of fuel dispensed.

13. Miscellaneous fuel specialties and accessories including fuel depot safety signs, fire extinguisher, wash bucket and paper towel holder, steel drum trash can and spill containment kit.

B. References

1. American National Standards Institute (ANSI)
   a. ANSI/ASME A13.1 Scheme for the Identification of Piping Systems.
   b. ANSI/ASME B1.20.1 Pipe Threads, General Purpose (inch).
   c. ANSI/ASME B16.10 Face-to-Face and End-to-End Dimensions of Valves.

2. American Petroleum Institute (API)
    a. API RP 1637 using to API Color-Symbol System to Mark Equipment and Vehicles for Product Identification at Gasoline Dispensing Facilities and Distribution Terminals.

3. American Society for Testing and Materials (ASTM)
    a. *ASTM A36 Standard Specification for Carbon Structural Steel.*
    b. *ASTM A48 Standard Specification for Gray Iron Castings.*
    c. *ASTMA53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated Welded and Seamless.*
    d. *ASTM A1011 Standard Specification for Steel, Sheet and Strip, Hot Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.*
    e. *ASTM B209 Standard specification for aluminum and aluminum-alloy sheet and plate.*
    f. *ASTM C335 Steady State Heat Transfer Properties of Horizontal Pipe Insulation.*
    g. *ASTM C547 Standard Specification for Mineral Fiber Pipe Insulation.*
    h. *ASTM C332 Standard Specification for Lightweight Aggregates for Insulating Concrete.*
    i. *ASTM C495 Standard Test Method for Compressive Strength of Lightweight Insulating Concrete.*

4. American Welding Society (AWS)
    a. AWS D1.1 Code for Structural Welding – Steel.
    b. AWS D10.12M/D10.12 Guide for Welding Mild Steel Pipe.

5. ASME International (ASME)
    a. ASME B31.9 Specification for Building Services Piping.

6. Code of Maryland Regulations (COMAR)
    a. COMAR 26:10 Oil Pollution and Tank Monitoring.
    b. COMAR 26:11 Air Management.

7. Maryland Department of Transportation State Highway Administration (MDSHA)
    a. Standard Specifications for Construction and Materials, issued July 2008, with latest revisions apply to work included in this Section.

8. Manufacturers Standardization Society (MSS)
    a. MSS SP-69-2003 Pipe Hangers and Supports - Selection and Application.

9. National Fire Protection Association (NFPA)
    a. NFPA 30 Flammable and Combustible Liquids Code.
    b. NFPA 30A Motor Fuel Dispensing and Repair Garages.
    c. NFPA 31 Standard for the Installation of Oil-Burning Equipment.
    d. NFPA 70 National Electrical Code.

e. NFPA 704 Standard System for the Identification of Hazards of Materials for Emergency Response.
f. NFPA 780 Standard for the Installation of Lightning Protection Systems.

10. National Institute of Standards and Technology.
    a. Handbook 44-2007 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.

11. OSHA: Occupation Safety and Health Act. 29 CFR 1956.

12. Petroleum Equipment Institute (PEI)
    a. PEI/RP200-03 Recommended Practice for Installation of Aboveground Storage Systems for Motor Vehicle Fueling.
    b. PEI/RP100-2000 Recommended Practice for Installation of Underground Liquid Storage Systems.

13. UFC: Uniform Fire Code, 2000 Edition.

14. Underwriters Laboratories, Inc. (UL)
    a. UL-79 Power Operated Pumps for Petroleum Dispensing Products.
    b. UL-87 Standard for Power-Operated Dispensing Devices for Petroleum Products.
    c. UL-142 Steel Aboveground Tanks for Flammable and Combustible Liquids.
    d. UL 353 Limit Controls.
    e. UL-467 Grounding and Bonding Equipment.
    f. UL-536 Standard for Flexible Metallic Hose.
    g. UL-842 Valves for Flammable Fluids.
    h. UL-568C Power Conversion Equipment.
    i. UL-971 Nonmetallic Underground Piping for Flammable Liquids.
    j. UL-2085 Protected Aboveground Tanks for Flammable and Combustible Liquids, Protected Type.
    k. UL-2244 Aboveground Flammable Liquid Tank Systems.

15. California Air Resources Board – CP-206, Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Aboveground Storage Tanks, May 2008

16. Applicable federal, state, and local codes and regulations.

C. QUALITY ASSURANCE

1. Work shall conform to federal, state, and local governing rules and regulations and ordinances, including OSHA and NFPA requirements, and shall pass inspection by the authorities having jurisdiction.

2. Work shall conform to current versions of locally adopted codes.

3. System Responsibility: Vested responsibility for designing, coordinating, and furnishing the system specified herein, and for initial operation is that of the tank manufacturer or of it qualified, factory authorized representative, herein referred to as the tank supplier.

D. SUBMITTALS

1. Submit shop drawings, catalog cuts, and manufacturer's data covering all equipment covered in this section. Submit the following for review and approval:
   a. *Shop drawings.*
   b. *Product data:* For each type of product indicated, include construction details, material descriptions, and dimensions of individual components and profiles. The intended use of each component that is listed should be included in the description portion of the submission. Also include, where applicable, rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
      i. *Piping specialties:* Include items such as bulkhead fittings, hose adaptors, swivel pipe adaptors, fill caps adaptor, drop tubes, tank vents, tank bottom protectors, etc.
      ii. *Valves:* Include pressure rating, capacity, and electrical connection of selected model where applicable.
   c. *Design calculations.*
   d. *Installation instructions.*
   e. *Operations and maintenance manuals.*
   f. *Training program.*
   g. *Manufacturer's Written Warranty*

2. Submit pumping equipment manufacturer's certification that the equipment supplied meets or exceeds the requirements of the Contract Documents.

E. JOB CONDITIONS

1. The Contractor's equipment and proposed materials shall be at least of the same level of quality as that indicated and specified.

2. Work includes furnishing and installing of ASTs, submersible turbine pumps, suction piping, sumps, dispensers, liquid sensors, level probes, interstitial sensors, shut-off valves, check valves, separator-lubricator assemblies, distribution piping and fittings, fuel hose reel assemblies including support framing, control handles, meters, pump systems, and all other work and material to provide an approved working installation as specified and as shown in the Contract Documents.

3. The various component parts shall function together as a workable fuel dispensing system, complete with everything necessary for its operation and with all equipment properly adjusted and in working order. Unless otherwise specified, any materials described, shown, reasonably

implied, or obviously a part of the system and necessary to its complete finish and perfect operation shall be furnished and installed, without extra charge. The Contract Drawings and the Contract Specifications are intended to supplement each other, and any item set forth in either shall be recognized as the same as if fully set forth in both.

4. The Contractor shall be responsible for establishing all pipe sizes and materials, component locations, type and quantities, mounting requirements and hardware, equipment selection, and all other design parameters necessary to provide a complete operable fuel dispensing system as described in the Contract Documents.

5. Site Information: Subsurface conditions were investigated during the design of the project. Reports of these investigations are available for informational purposes only; data in reports are not intended as representations or warranties of accuracy continuity of conditions (between soil borings). The Authority assumes no responsibility of interpretations or conclusions drawn from this information.

F. DELIVERY, STORAGE AND HANDLING

1. Delivery, storage and handling of all fuel dispensing system components shall be in accordance with manufacturer's written instructions.

G. WARRANTY

1. The Contractor shall guarantee its work, material, and equipment and the other Contract performances, and shall remedy, without cost to the Authority, any defects which may develop therein during a period of one year from the date of the Authority's acceptance of the project. The Contractor shall, at its expense, repair or replace any component or equipment that has malfunctioned or has become defective as a result of improper installation. The Contractor's corrective actions shall ensure continuance of the manufacturer's warranty to include recertifying to the manufacturer's requirements.
2. Provide tank manufacturer's 30-year written warranty. This warranty shall cover all defective materials and workmanship of the steel and concrete vaulted tank system. This warranty shall also cover the interior and exterior material and coatings from corrosion, cracking, flaking, spalling, discoloration, or deterioration.

3. Provide dispenser manufacturer's 2-year warranty.

PART 2 - MATERIALS

A. ABOVEGROUND STORAGE TANKS

1. *General*:
Provide one (1) 8,000 gallon double-wall two-compartment AST, one (1) 1,000 gallon double-wall AST, and one (1) 4,000 gallon double-wall AST as indicated on the Contract Drawings and specified herein.

2. *Primary Storage Tank*:
   a. The primary storage tanks shall be constructed of UL-specified steel thickness, with continuous welds.
   b. The primary storage tanks shall be constructed of ASTM A-1011 or A-36 carbon steel.
   c. The primary tanks shall be fitted with female NPT fittings as specified herein.
   d. The 8,000 gallon primary tank shall include two (2) separate compartments (6,000 and 2,000 gallons) with the following fittings in each compartment:
      1) One (1) 4-inch port for a submerged pump.
      2) One (1) 24-inch tight-bolt manway with one (1) 8-inch emergency vent port and emergency vent valve.
      3) One (1) 2-inch working vent port with riser pipe and pressure/vacuum vent valve.
      4) One (1) 2-inch port for mechanical gauge.
      5) One (1) 2-inch electronic level gauge.
      6) One (1) 3-inch fill port with anti-siphon holes in drop tube.
      7) One (1) 2-inch spare port with striker plates and tight-fill adapter and lockable cap.
      8) One (1) 4-inch spare port with pipe plug.
      9) Two (2) 2-inch spare port with striker plate and pipe plug.
   e. The 1,000 gallon primary tank shall be fitted with the following:
      1) One (1) 2-inch Fill Port.
      2) One (1) 2-inch Working Vent Port.
      3) One (1) 4-inch Emergency Vent Port.
      4) One (1) 2-inch Liquid Gauging Port.
      5) One (1) 2-inch Port for Dispensing Pump.
      6) One (1) 4-inch Phase I Vapor Recovery Port.
      7) One (1) 7 gallon Spill Containment Tank with Lockable Lid and Drain Port to the primary tank.
   f. The 4,000 gallon AST will store heating oil and will be have fill and vent ports as recommended by the manufacturer.
   g. All fittings shall be threaded NPT risers and supplied with thread protectors and shall be located above the liquid storage level.
   h. The primary tanks shall be pressure-tested in accordance with UL-142 (minimum 3 to maximum 5 psi) at the factory, and shall also be field tested by the Contractor to a maximum 3 psi or as specified by the tank manufacturer.
   i. The primary tanks shall secure the interstitial barrier material to ensure UL certified protection.

3. *Secondary Leak Containment Tank*:
   a. The secondary tanks shall provide complete containment for the primary tanks.

b. In addition to openings for all ports in the primary tanks, each secondary tank shall be fitted with the following:
    a) Two (2) 2-inch port for interstitial probe.
    b) One (1) 8-inch emergency vent port.
    c) One (1) 2-inch spare port with pipe plug.
c. The port openings in the top of the secondary tanks shall be constructed with continuous penetration welds to prevent moisture from seeping between the fire protection material and secondary and primary tanks.
d. The top of the secondary tanks shall be sloped so that water will not accumulate on top of the tanks.
e. The secondary tanks shall be pressure-tested liquid-tight in accordance with UL-142 (minimum 3 to maximum 5 psi) at the factory, and shall also be field tested by the Contractor to a maximum 3 psi or as specified by the tank manufacturer.
f. The exterior surface of the secondary tanks shall be coated with a corrosion-resistant fiber-clad finish such as "Fibervault" by Hoover or approved equal. The total dry thickness shall be a minimum of 1/8-inch. Finish color shall be desert sand.

4. *Fire Protection*:
    a. The fire protection material shall be a minimum of three (3) inches of porous, lightweight monolithic thermal insulation material or lightweight concrete and shall be installed at the factory within the interstitial space between the inner and outer wall. Thermal insulating material:
        1) Shall be in accordance with ASTM C-332 and C-495.
        2) Shall be designed and tested to provide 2 hour fire protection for the primary tank as per U.L. 2085 2-hour furnace fire test and 2 hour simulated pool fire test.
        3) Shall allow liquid to migrate through it to the monitoring point.
        4) Shall not be exposed to weathering and shall be protected by the steel secondary containment outer wall.
        5) Shall provide a minimum of a R-10 insulating factor.
    b. The tank supplier shall certify that the primary and secondary containment do not leak, and that the fire protection material regains its minimum 2-hour protection.

5. *Miscellaneous*:

Two (2) tank fill systems shall be provided on the 8,000 gallon tank and one on the 1,000 gallon tank. Each system shall be side-mounted on the tank at locations as shown on the Contract Drawings. The fill connections shall be accessible from ground height without the need for stairways or ladders. The system shall be suitable for use with low pressure hose delivery and have suitable fixtures and valves to prevent spillage and shall include the following:

a) Weatherproof, lockable box with 7-gallons spill container, constructed of cast iron steel.

b) Quick disconnect hose coupling with dust plug.
c) Hand pump for spill containment rated for 1 gallon per minute, with shutoff and check valve.
d) Check valve.
e) Shutoff valve.
f) Dust cover.
g) 6-inch standard face, visible level gauge.
h) Drain port.
i) Fittings size shall be 3-inch.
j) Product color coding per API 1637.
k) Acceptable manufacturers:
    i. FuelPort manufactured by Simplex, Inc.
    ii. Franklin Fueling Systems.
    iii. OPW Engineered Systems.
    iv. Or approved equal.
l) Fill-pipe adaptors shall be provided for filling of fuel into the storage tanks. The adaptor material shall be corrosion resistant material. The o-ring seals for the swivel adaptor shall be made of Viton or Buna-N. The adaptor shall be provided with a nitrile gasket to provide a secure seal with the drop tube fill pipe.

    1) Acceptable manufacturers:
        1. Franklin Fueling Systems.
        2. OPW Engineered Systems.
        3. Or approved equal.

m) A 3-inch drop tubes shall be provided to direct the flow of fuel towards the bottom of the tank. The drop tube shall have a 0.062-inch thick wall for improved durability. The drop tube shall be cut to length and chamfered in the field. The drop tube shall be furnished with a 3/8-inch breather hole located within three inches of the top of the tank. The bottom of the drop tube shall be within six inches of the bottom of the tank.
    1) Acceptable manufacturers:
        1. Model number 782-204-32 manufactured by Franklin Fueling Systems.
        2. OPW Engineered Systems.
        3. Or approved equal.
n) All piping for unleaded gasoline shall be carbon steel and shall be coated with corrosion protective coating. All piping for E-85 fuel shall be stainless steel Exterior coating shall be the same as tank. Hangers, supports and accessories used shall be applied in accordance with the manufacturer's recommendation for type of service and application and in accordance with MSS SP-69-2003. All hangers, supports, and accessories shall be galvanized.

o) Isolation ball valves shall be provided at locations as shown on the Contract Drawings. Ball valves shall be full port with an open-close arm and a quick quarter turn handle. Ball valves shall be constructed of materials compatible with gasoline and diesel and shall be UL-842 listed.

p) All unused/spare tank openings shall be properly sealed using threaded pipe plugs, flanges or caps, using compatible thread sealant materials.

q) The secondary tanks shall have two (2) 2-inch monitoring ports including a tube which provides a means for installing a sensor to detect product leakage from the primary tank into the dry interstitial space. This design shall be listed under UL-2085.
   1. Tank leak-detection and monitoring system shall include interstitial sensors, and the new Veeder-Root TLS-350 PLUS ATG to monitor leaks in inner walls.
   2. The design shall include any fittings and devices required for testing.
   3. The tank monitor shall be capable of detecting a breach in the inner tank.
   4. The leak detection performance of the liquid monitoring system shall be tested and verified to detect leaks.
   5. Acceptable manufacturers:
      i. Model 7943904XX manufactured by Veeder-Root; a Danaher Corporation Company.
      ii. Or approved equal.

r) Level transmitter shall be a magneto-restrictive probe to provide accurate readings of tank level to the new ATG.
   i The design shall include fittings and devices required for testing.
   ii Controls: The probe shall provide product level and temperature, water level, and over fill alarm.
   iii Acceptable manufacturers:
      1. Probe p/n 846391-3XX manufactured by Veeder-Root; a Danaher Corporation Company.
      2. Or approved equal.

s) The tanks shall be delivered as a complete UL-listed assembly with factory supplied lifting lugs at balancing points to facilitate handling and installation, and welded-on supports to be set level on a solid foundation. The supports should meet Seismic Zone 4 rating.

6. *Overfill Protection:* Overfill protection shall be provided by the following methods: a) direct reading level gauge visible from fill pipe access; b) valve rated for pressurized delivery located within fill pipe to close automatically at 95% full level; c) high level alarm.

7. *Signage:* Tanks shall be marked on all sides as per state and local codes. Signs will be recessed in concrete exterior to insure against damage during off-loading, refilling or general functions.

8. *Venting:* Tank system shall include a 2" atmospheric vent and emergency venting in accordance with N.F.P.A. 30.

9. The fueling system shall be designed to meet or exceed the minimum requirements of NFPA Sections 30 and 30A, the UFC, and the NEC.

10. Tank dimensions:

    a. 8,000 Gallon Tank Design Criteria:
        i. Tank storage volume: 8,000 gallons
        ii. Maximum tank maximum dimensions: 8'-4" wide by 8'-10" high by 23'-6" long.
        iii. The tank shall be split internally to provide storage for 2,000 gallons of diesel fuel and 6,000 gallons of unleaded gasoline. An air gap shall separate the two storage compartments.
        iv. Tank shall include 4 dispensers and 4 card readers (2 for diesel and 2 for gasoline) mounted where shown on the plans.

    b. 1,000 Gallon Tank Design Criteria:
        i. Tank storage volume: 1,000 gallons
        ii. Maximum tank maximum dimensions: 5'-6" wide by 4'-8" high by 11'-6" long.
        iii. Tank shall be designed to store 1,000 gallons of E-85 ethanol/gas fuel.
        iv. Tank shall include 1 dispenser and one card reader.

    c. 4,000 Gallon Tank Design Criteria:
        i. Total tank storage volume: 4,000 gallons.
        ii. Maximum tank maximum dimensions: 8'-4" wide by 8'-10" high by 17'-10" long.
        iii. Tank shall be designed to store 4,000 gallons of heating oil.

B. SUBMERSIBLE TURBINE FUEL PUMPS

1. Pumps:

a. Description: Provide a total of four (4) UL-listed ¾ hp submersible turbine pumps for the gasoline and diesel tank (one pump for each dispenser) and a single UL-listed 1/3 hp submersible turbine pump for the E-85 tank.

b. The entire pumping assemblies shall have UL listing and shall meet all requirements of UL-79. The entire pumping assembly for the E-85 fuel shall have UL listing for use with E-85 fuel.

c. Pumps shall be multi-stage, self-lubricating, and easily removed from tank without disconnecting discharge piping, mechanical or electronic leak detectors, or siphon

systems. The pump and motor assembly shall be readily separable from the pump column pipe to allow for simple field replacement of the pump and motor.

d. Impellers shall be splined to the pump shaft to provide positive, non-slip rotation. Diffusers shall be tightly secured to prevent rotation.

e. The motor assembly height shall be field adjustable utilizing a UL-listed telescoping shaft and set to a minimum of five (5) inches from the bottom of the tank.

f. Manifold head assembly shall consist of a manifold and extractable packer assembly and shall be completely sealed against product leakage into the ground and exterior water leakage into the storage tank. The discharge outlet shall be a standard 2-inch NPT opening. The manifold shall have a built-in air purge screw, line check valve, and pressure relief valve, and shall support dual vacuum sensor siphon systems.

g. The contractor's box shall be built into the manifold head assembly and be completely isolated from the fuel path. The extractable packer assembly shall incorporate a lifting eye for safe extraction of the pump motor.

h. The electrical disconnect shall be an integral part of the manifold assembly. The electrical disconnect shall automatically disconnect and sever electrical connection to the pump motor, without a swing joint, when the extractable packer assembly is removed.

i. The pumps shall include an integral check valve and line leak detector to hold operating pressure at 30 psi to minimize loss of pressure due to thermal contraction. The line leak detector shall restrict fuel flow if line pressure is lost or line product loss exceeds 3.0 gph The check valve shall incorporate a feature that mechanically locks the check valve and lifts to provide a larger path to depressurize the line and manifold head assembly, returning fuel to the tank to prevent service spills. The check valve shall provide pressure relief of the product line. The check valve seat shall be constructed of bronze. Contractor shall provide a 3-second on-delay relay for each dispenser solenoid valve to minimize line leak checking intervals.

j. The vacuum sensor siphon system shall be capable of drawing 25 inches of mercury vacuum through a venturi. The vacuum sensor siphon shall incorporate a one-piece rubber check valve to maintain the siphon system vacuum after the pump has been turned off. Check valves shall be incorporated on the siphon inlet and fuel source inlet to the venturi. The inlet shall incorporate a screen that reduces clogs and failures that can cause false alarms on vacuum monitor systems. The vacuum sensor siphon system shall incorporate a swivel top for easy connection to siphon tubing.

k. The pump discharge head and manifold assembly shall be manufactured from ASTM A48 Class 30 gray cast iron.

l. The pumping unit shall not incorporate any flexible diaphragms and all sealing shall be accomplished with rings constructed of fluorocarbon or UL-recognized fiber gaskets.

m. The pump motors shall be 208/230-volt, 60-Hertz, single-phase, 3,450 RPM, permanent split capacitor type continuous duty, rated explosion proof in a Class I, Group D environment as defined in NFPA 70. The motor windings shall be hermetically sealed against leakage of product or moisture, and shall have a thermal overload device with automatic reset built into

n. the motor windings for motor cut-off when motor temperature reaches a level which may cause damage to the motor.

o. The motor shall have a quick-disconnect type male/female connector to be readily separable for servicing without cutting or splicing of conducting wires. Wiring connections to the motor shall be disconnected by the quick-disconnect. Reconnecting motor to column pipe shall use an alignment dowel pin for positive realignment of electrical male/female connector.

p. The pump motor assembly shall be clearly marked with pertinent information including horsepower, voltage, phase, and manufacturer.

q. The pump motor shell and rotor shaft shall be constructed of stainless steel Type 304 (outer) and Type 301 (stator), and motor bearings shall be constructed of carbon.

r. All components shall be designed and assembled to facilitate disassembly and servicing from above without disrupting the discharge piping, leak detection equipment and vacuum sensor siphon systems.

s. All piping and valves shall comply with NFPA 30 and 30A.

2. *Design Criteria:*
   a. Capacity: ¾ hp 65 gpm at 28psi and 1/3 hp 40 gpm at 31 psi

3. *Controls:* Provide a pump control box for each submersible pump. The pump control box (Red Jacket Model 880-041-9) shall provide inductive motor switching as well as pump permissive for the dispenser, CFN PCU, and the ATG. Pump control panel shall comply with UL-353 and UL-508C.

4. *Acceptable manufacturers:*

a. E-85 Fuel: Franklin Fueling Systems, Red Jacket Pumps Division of Veeder-Root Company;
b. Unleaded and Diesel Fuel: Franklin Fueling Systems, Red Jacket Pumps Division of Veeder-Root Company.
c. Or approved equal.

C. DISPENSERS

Provide five (5) UL-listed dispensers to deliver E-85 fuel, unleaded gasoline, and diesel fuel with the following features and capabilities:

1. *Maufacturer:* Pump dispensers shall be the Reliance S1 by Dresser-Wayne or equal.

2. *Compatibility:* For dispensing low viscosity petroleum fuels - diesel, including biodiesel blends up to 20%; E85, and gasoline, including standard oxygenated blends.

3. *Performance:* Up to 22 GPM.

4. *Register:* Non-computer mechanical register with power reset with interlock. Up to 999.9 gallons per delivery. Non–resettable accumulative totalizer up to 9999999.9.

5. *Meter:* Micro-accurate 2-piston positive displacement design. Weights & Measures sealable.

6. *Solenoid Valve:* 1" two-stage valve.

7. *Electrical:* 115VAC, 60 Hz.

8. *Inlet Connection:* 1½" NPT. Bottom access hole sized for 1½" emergency valve installation.

9. *Discharge:* 1" with ¾" reducing bushing.

10. *Mounting:* Tank or shelf-mount.

11. *Cabinet Construction:* All panels shall be fabricated from galvannealed steel for corrosion resistance. Front door shall be lockable and removable for service. Sides and top shall be removable for additional service access.

12. *Cabinet Finish:* Durable all weather powder-coated finish.

13. *Nozzle Boot and Hook:* Fits standard U.L. interchangeable nozzles and Dresser Wayne short spout vapor recovery nozzles. Lift-to-start nozzle hook. Fleet Fueling Group

14. *Hose Hanger:* Keeps hose off ground when not in use.

15. *Actual Dimensions:* Approximately 16"W x 14"D x 29"H

16. *Pressure:* Working pressure up to 50 psi.

17. *Pulsers:* Convert register revolutions to electrical pulses for connection to fuel management systems. 10:1 and 100:1 ratio options.

18. *Hose Mast Kit:* Compatible with equipment selected.

19. *External Filter:* Installed on discharge.

20. *Signage:* Each dispenser shall be clearly labeled: Unleaded Gasoline, Diesel, or E-85.

D. FUEL DISPENSING PIPING AND FITTINGS

1. Provide fuel piping as shown on the Contract Drawings and as specified in this Section.

2. All aboveground piping shall be black carbon steel schedule 40 in accordance ASTM A53, Type S, Class B, in the nominal size indicated in the Contract Documents. Hangers, supports and accessories used shall be applied in accordance with the manufacturer's recommendation for type of service and application and in accordance with MSS SP-69-2003. All hangers, supports, and accessories shall be hot-dip galvanized.

3. Plastic to Steel Pipe Transition Fittings: Factory-fabricated fittings with plastic end matching or compatible with carrier piping, and steel pipe end complying with ASTM A53, black steel, Schedule 40, Type E or S, Grade B.

4. Flexible entry termination boots shall be provided where ducting terminates at secondary containments and sumps. All termination boots shall be air testable to confirm leak tight integrity over the life of this component.

    a. Acceptable manufacturers:
        1) APT Division of Franklin Fueling Systems;
        2) Or approved equal.

5. Clamshell Secondary Test Boots shall be provided wherever non-ferrous piping penetrates a sump or other secondary containment to permit testing of the interstitial space between the primary and secondary layers of the double-walled pipe.

   a. Acceptable manufacturers:
      1) APT Division of Franklin Fueling Systems;
      2) Or approved equal.

6. Joining Materials:
   a. Joint compound and Teflon tape suitable for fuel.
   b. Acceptable manufacturers:
      1) Loctite 567 manufactured by Henkel Technologies;
      2) Or approved equal.

E. PIPE SUPPORTS

1. Hangers, supports and accessories used shall be provided in accordance with the manufacturer's recommendation for type of service and application. All hangers, supports, and accessories shall be hot-dip galvanized.

F. EMERGENCY SPILL KIT

The Contractor shall provide one emergency spill kit as specified in this Section.

1. *Contents:*

   50 - Absorbent Pads
   12 - Absorbent Socks (3"x48")
   2 - Absorbent Pillows
   1 - Pair Goggles
   1 - Pair Nitrile Gloves
   3 - Disposal bags

2. *Container:*

   Drum size - 21.125"x28.5" 30 gallon Yellow polyethylene container with screw-on lid with gasket, weatherproof, UV inhibitors and is chemical resistant to most materials.
   Absorbs 25 Gallons

3. *Manufacturer/ Supplier:*

   AbsorbentsOnline.com
   PCI Products Company

4195 Chino Hills Pkwy., #360
Chino Hills, CA 91709

G. AUTOMATIC TANK GAUGING AND LEAK DETECTION SYSTEM

1. *Manufacturer:* OMNTEC Manufacturing, Inc., 1993 Pond Road, Ronkonkoma, NY 11779 or approved equal. Model OEL8000II
2. *Function:* Monitors product levels, water levels, temperatures, and leaks for up to 8 tanks. Monitors product levels, water levels, temperatures, and leaks for up to 8 tanks. The system shall accurately monitor tank inventory and transmit data to the Commercial Fuel Network (CFN). It shall provide an audible/visual tank overfill and interstitial leak alarm, lock-out of submerged pump at low inventory levels, detect one (1) inch or more of liquid accumulation in a dispenser pan/sump, perform continuous statistical leak detection, detect all interstitial piping leaks, and monitor water accumulation in the diesel inventory.
3. *Features:* 4 RS-232 ports, 1 RS-485 port, FAX/modem compatible, 4-line by 40 character backlit LCD display, accepts up to 6 interface boards, battery backup, CITLD upgradable, UL-listed.
4. *Specifications:* 36-character thermal printer, 100-240 VAC, 50/60 Hz, 50 watts. 14,400 baud modem, audible alarm, 20 key oil resistant tactile key pad, 3 LEDS (OK, Fault, alarm), shielded BX series 22 AWG sensor cable with drain wire, MTG probes, OMNTEC EC-2 shielded Belden #8791 low inductance (< 0.2 microhenries per foot).
5. *Sensors:* OMNTEC, Bright Eye (BX-Series), 4 wire buss, network compatible.

H. FUEL MANAGEMENT SYSTEM

Description: The purpose of the system is to control and provide accurate accounting of all fuel and related products being dispensed. The system, in recording each transaction shall identify the driver, the vehicle, the day and time of the transaction, and the type and amount of fuel dispensed. Access to products shall be restricted to persons holding valid cards and who perform a predetermined series of data entry operations. The system provided shall be compatible with existing Authority fuel management system currently in use at other sites and shall be capable of processing dual hose use simultaneously from the same dispenser. The fuel management system shall be compatible with the existing Authority system and coordinated through Commercial Fuel Systems. (301-829-0875) The current system is a Gasboy model CFN-1.

System Equipment: The system shall be comprised of the following components:

1. *The Card Readers:* The five (5) card readers shall be the only piece of equipment in the system to which users shall have access. It shall provide clear and concise prompting to the user.
2. *The Micro-Computer:* The major control component for the system shall be a microprocessor based unit to be designed and constructed with state-of-the-art technology

3. *The Control Cabinet:* The control cabinet shall be keyed accessed and located adjacent to the micro-computer cabinet. This cabinet shall house the relays through which electrical power to the pumping devices is controlled.
4. *Data Terminal:* The data terminal shall be the device through which on-site communication with and control of the system shall be effected. The data terminal shall be located inside the building and will allow authorized personnel to activate the terminal through the use of a security key.
5. *Printer:* The printer shall be located adjacent to the data terminal which:

    i. Shall operate as an on-line device to record transaction data in real time as each fuel transaction is completed.

    ii. Shall operate in conjunction with the data terminal as a self-prompting device for on-site data entry and display.

6. *Transaction Recorder:* A transaction recording device shall be located adjacent to the data terminal and printer which:

    i. Shall record all transaction data in non-volatile solid state memory such that in the event of power failure no data will be lost.

    ii. Shall indicate through a series of LED displays its status and operation mode for diagnostic purposes.

PART 3 - EXECUTION

A. INSTALLATION

1. Manufacturer will have a minimum of 5 years experience in producing specified tank for commercial use and document at least 10 installations in satisfactory operation.

2. The tank system including accessories shall be installed in strict accordance with the manufacturer's recommendations and applicable fire and environmental codes. All state and local permits shall be obtained by contractor prior to installation.

3. Tanks shall be installed on a reinforced concrete base slab designed to support the fully loaded tank. Protective bollards shall be installed where required by state and local codes.

4. Tanks shall be marked on all sides with warning signs: "FLAMMABLE" or "COMBUSTIBLE", "NO SMOKING", product identification, a NFPA rating label, and other signs as required by applicable codes.

5. Electrical work shall be in accordance with applicable codes and shall be rated for hazardous area as required. Electric feed for dispensing pumps shall include an emergency shutoff switch located per code requirements. Tanks shall be electrically grounded in accordance with N.F.P.A. 78.

6. The system installation shall be inspected and approved by the system supplier or its certified contractor. The system supplier shall submit a comprehensive checklist of quality and safety items critical to the system and verify that the installation has been in accordance with these standards and applicable fire and environmental codes.

B. EQUIPMENT TEST AND CHECK-OUT

1. The equipment shall be tested in the presence of the Authority's Representative to his/her satisfaction and demonstrated to be correctly connected and installed. Submit a testing schedule to the Authority for approval prior to the start of the equipment test and check-out.

2. Testing and check-out procedures of the manufacturer shall be carried out completely.

3. Equipment tests shall not only be performed to demonstrate that the equipment has been properly installed and connected and operates properly, but also to demonstrate that the equipment performs the work for which it is intended.

4. Tested equipment found to be defective or inoperable to any extent shall be reported to the Authority immediately.

5. Any operating difficulty or defective item shall be repaired or replaced and put into proper operation by the Contractor immediately, at no additional expense to the Authority.

6. Contractor shall protect equipment and surrounding areas from damage resulting from testing operations, and shall clean-up any spills or leakage resulting from testing.

7. Contractor shall bear all expenses of all tests, including the furnishing of all necessary instruments, lubricants, hydraulic fluid, supplies, data recorders, and operation personnel. Provide and bear all expenses for fuel/power required to operate the equipment during the tests.

8. Perform testing of the equipment and system in accordance with the requirements specified in Contract Documents. Perform and document all testing procedures recommended by the manufacturer. Include the following tests:
    a. Test system performance by measuring quantity of product dispensed over time at each designated "TEST" fluid and semi-solid control handle. Minimum measured output over time shall meet of exceed the "Minimum Delivery Rate" for the

corresponding fluid as specified. Tests shall be performed three (3) times within a span of five (5) minutes at each control handle.

b. Test meter at each metering control handle by measuring volume of product dispensed. Measured volume of product dispensed shall correspond with volume of product indicated on meeting control handle within +/-0.65 percent of full dial range.
c. Test each hose reel for proper extension and retraction.

9. At the sole discretion of the Engineer, the Contractor may be required by repeat any tests, at no cost to the Authority.

10. Contractor shall perform the following tests to demonstrate fueling system features and compliance:
    a. Piping Tightness: Air test at 50 psig for one hour, soap all joints;
    b. Tank Tightness: Per manufacturer's written instruction;
    c. Dispenser meter calibration shall be per NIST Handbook 44;
    d. Shear Valve: Contractor shall demonstrate no flow when tripped;
    e. Liquid level gauges: Gauges shall be calibrated per manufacturer's directions and shall be compared with manual gauges;
    f. Interstitial Sensor: Contractor shall simulate leak and verify alarm response;
    g. Overfill Prevention Alarm: Contractor shall verify setting at 90 percent of tank capacity;
    h. Grounding Continuity: From tank ground rod to dispenser nozzle;
    i. Emergency Stop Switch: Contractor shall activate and verify all circuits are disconnected from the source; and

C. INSPECTION AND TRAINING

1. The system installation shall be inspected and approved by the Engineer. The Engineer shall submit a comprehensive checklist of quality and safety items critical to the system and verify that the installation has been in accordance with these standards and applicable fire and environmental codes.

2. Contractor shall be responsible to repair any quality or safety items, as found by the Engineer, at no cost to the Authority.

3. Contractor shall be responsible to provide as a minimum two (2) 2-hour training sessions of complete system operation and maintenance. The Contractor shall coordinate the session dates with the Authority.

PART 4 - MEASUREMENT AND PAYMENT

A. INSTALLATION OF ABOVEGROUND STORAGE TANKS

1. Installation of 4,000 gallon heating oil AST and modifications to the existing interior piping system in the Administration Building shall not be measured for payment.
2. All work for the installation of 4,000 gallon heating oil AST and modifications to the existing piping system in the Administration building shall be included in the Lump Sum Price for "*4,000 Gallon Aboveground Heating Oil Storage Tank and Appurtenances (Site 2)*" indicated on the Bid Form.
3. Installation of 8,000 gallon (6,000 gal gasoline and 2,000 gallon diesel fuel) AST at the Police facility (Site 1) shall not be measured for payment.
4. All work for the installation of 8,000 gallon AST at the Police facility shall be included in the Lump Sum Price for "*8,000 Gallon Aboveground Fuel Storage Tank With Two Cells, Dispensers, Pumps, and Appurtenances (Site 1)*" indicated on the Bid Form.
5. Installation of 1,000 gallon (E85 Ethanol mix fuel) AST at the Police facility (Site 1) shall not be measured for payment.
6. All work for the installation of 1,000 gallon AST at the Police facility shall be included in the Lump Sum Price for "*1,000 Gallon Aboveground Fuel Storage Tank With Dispensers, Pumps, and Appurtenances (Site 1)*" indicated on the Bid Form.

B. INSTALLATION OF PIPING AND ACCESSORIES

1. Installation of piping and accessories for the 4,000 gallon heating oil AST at the Administration Building shall not be measured for payment.
2. All work for the installation of piping both exterior and interior to the Administration Building including wall openings and sleeves, interior supports, reconnections, removal of abandoned pipe, and testing shall be including in the Lump Sum Price for the "4,000 Gallon Aboveground Heating Oil Storage Tank and Appurtenances (Site 2)" indicated on the Bid Form.

END OF SECTION

BID/PROPOSAL FORM

Contract No. **BB 2042-000-002**

Bid/Proposal Of _____
(Name)

_____
(Address)

_____
(Phone Number)

To furnish and deliver all materials and to perform all work in accordance with the Specifications and the other Contract Documents except as specifically stated otherwise in the Special Provisions relating to Contract No. **BB 2042-000-002** for **Bay Bridge Facilities Fuel Tank Replacements** as defined in the Special Provisions on which bids/proposal will be received until twelve (12) Noon on the **11th of March 2010** in the Bid Box of the Maryland Transportation Authority's Division of Procurement and Statuary Program Compliance, Building 300, 1st floor, located at the Francis Scott Key Bridge, Baltimore, MD.

Bids will be opened publicly at 12:00 Noon on the Bid Date in the Engineering Conference Room of the Transportation Authority which is located in the 1st floor of the 300 Authority Drive, Baltimore, MD 21222.

To the Maryland Transportation Authority, Baltimore, Maryland:

In accordance with the published "Notice to Contractors" of the Maryland Transportation Authority, inviting proposals for the work; identified above, I/We certify; that I/We am/are the only person or persons interested in this Proposal as principals; that it is made without collusion with any person, firm or corporation; that an examination has been made of the Contract Documents and of the work site; that I/We certify have the equipment, labor, supervision and financial capacity to perform this contract either with my/our organization or with subcontractors; that I/We propose to furnish all necessary machinery, equipment, tools, labor and other means of construction and to furnish all materials specified in the manner and at the time prescribed; that I/We understand that the quantities of work as indicated herein are to be determined by me/us; that I/We further understand that all work required by this contract is to be performed in accordance with the following Schedule of Prices.

SCHEDULE OF PRICES

NOTE: This proposal shall be filled in by the bidder, with the prices written in words and numerals. The extension amounts of unit costs shall also be filled in. For complete information concerning these items, see Specifications, Special Provisions and Contract Form.

ITEM NOS.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEM AND PRICE BID (IN WRITTEN WORDS)	UNIT PRICE DOLLARS	UNIT PRICE CTS.	AMOUNTS DOLLARS	AMOUNTS CTS.
		AGGREGATE AMOUNTS AT UNIT PRICES USING ITEMS 1001-1009, 2001-2012, 3001-3002, 4001-4014, 5001-5004, 6001-6003, 7001-7003 and 8001-8013 AT _____				

Pre-bid Meeting Minutes

Contract No. BB 2042-000-002
Bay Bridge Facilities Fuel Tank Replacement

Anne Arundel County

February 3, 2010 (9:30 A.M.)

The following were in attendance:

Doug Novocin	MdTA Engineering
Cheryl McKinlay	MdTA Engineering
Paul Truntich	MdTA Operations
Ben Mondell	MdTA Procurement
Linda McGill	MdTA Procurement
Meshelle Howard	MdTA MBE Division
Dick Berich	Dewberry
Gene O'Brien	Core Engineering
John Baker	Commercial Fuel Systems
Travis Black	Apex Companies
Fred Craig	Jos. T. Handy
Paul Cunningham	Tanks Direct
Danny Darragh	Commercial Fuel Systems
David Dooley	Containment Solutions, Inc.
John Jones	Total Environmental Concepts
Jim Lusby	AZE Environmental
John Mitchell	Jones & Frank
Robert Newman	RJ Newman Inc
Len Nicewonger	Petro Supply
Jason Rothenhoefer	Tanks Direct
Jeff Underland	Petroleum Services, Inc.
Jay Wiedel	Containment Solutions, Inc.
Jason Wihe	Commercial Fuel Systems

Mr. Mondell opened the meeting with the following notes:

The scope of work includes providing labor, equipment, materials, etc. necessary for removal of existing underground storage tanks and installation of new above ground storage tanks at the Administration Building and Salt Storage Facility, The Police/Maintenance Facility, and the Temporary Building/Garage located at the William Preston Lane Jr. Memorial Bridge Facility on the Western Shore of the Chesapeake Bay in Anne Arundel County as directed by the Engineer and as shown on the contract plans and specifications. He then described the location and scope of work as outlined in SP 1-1 of the special provisions.

Site visit inquiries should be directed to Mr. Ken Cimino, Facility Administrator (410) 537-6659.

The contract time is 180 calendar days with liquidated damages of $300.00 per day.

Mr. Mondell drew the bidders' attention to the following points:

1. The bid due date is **Wednesday, February 24, 2010 by 12p.m.** Late bids will not be accepted.

2. Bid packages must be placed in the bid box located on the first floor of the Engineering Building at the Francis Scott Key Bridge, 300 Authority Drive and should consist of one complete bid book and all required documents.

3. The Authority does not encourage overnight delivery service. However, if a bidder chooses to send a package via overnight delivery, the bid should be delivered at least a day in advance to the **Maryland Transportation Authority; Office of Procurement & Statutory Compliance; 300 Authority Drive; 1st Floor; Baltimore, MD 21222**. It will be the responsibility of the bidder to make sure that his/her bid package is placed in the bid box. The outside envelope of the mailed package must clearly identify the Contract Number and mention that it is a bid package.

4. These minutes will be included in Addendum #1 and distributed to all purchases of the bid documents. The anticipated date for Addendum #1 is **Wednesday, February 17, 2010**. (*Note: There was some discussion to send the addendum earlier, but this was not possible due to inclement weather. These minutes are part of Addendum No. 2).*

5. It is strongly recommended that potential bidders review page I, the Notice to Bidders, and pages III-V, Important Information Regarding MBE Utilization and Bidding Requirements of this invitation for bids prior to submitting their bids on this project.

6. Please make sure you fill out the Schedule of Prices accurately and completely. Not doing so may render your bid as non-responsive.

7. Following this meeting, all questions should be submitted in writing and addressed to the **Project Manager, Mr. Douglas Novocin** via fax 410-537-7801. The Authority will accept written questions until **4pm on Wednesday February 10, 2010**. Answers to questions will be distributed to all purchasers of bid documents via addendum.

Ms. Meshelle Howard drew the bidders' attention to the following points:

1. The MBE participation goal for this contract is **25%**. There are no sub-goals for this contract. All prime Contractors must achieve all MBE goals through certified MBE subcontractors, regardless of the MBE status of the prime Contractor. MBE firms must be certified by the Maryland Department of Transportation (City or County certification is not acceptable). A list of certified MBE firms may be obtained by calling MBE office at (410) 537-1051. It is also available at the Authority's website at www.mdta.state.md.us. A new Directory is also available. Ms. Meshelle Howard will review the MBE package. If bidders

require assistance with the MBE directory, they should contact Meshelle Howard at 410-537-7832.

Cheryl McKinlay announced the following points. Addendum No. 1 will include:

1. Corrections to Page 241 in the IFB for "AGGREGATE AMOUNTS AT UNIT PRICES USING ITEMS" for inclusion of Schedule of Price Items 7001-7003.

2. Minor changes to Contract Drawings No.'s: S-1 (Sheet 14), S-2 (Sheet 15), S-3 (Sheet 16), E-3 (Sheet 22) and E-4 (Sheet 23).

(Note: These changes have been made in Addendum No. 2)

Paul Truntich of MdTA-Operations stated that:

3. MDTA utilizes biodiesel. Therefore, where the term "diesel" is used in the contract documents, it should be replaced with the term "biodiesel". (All diesel systems shall be compatible for use with up to B-20 biodiesel fuel.)

The meeting was then opened to questions and comments concerning the project. The following questions were discussed and responses provided:

Question 1: Can Contractors make a site visit today?

Response: *It is doubtful that site tours can occur today because of the impending snow storm. Please make all site visit arrangements through Mr. Ken Cimino, Facility Administrator (410) 537-6659.*

Question 2: Does Commercial Fuel Systems supply the card reader for the fuel supply system or MdTA?

Response: *The Bidders will purchase and install the card readers. The Bidders may purchase the card readers from Commercial Fuel Systems (CFS). Contact CFS Mark Dixon (CFS President) or Frank Smith at 301-829-0875.*

Question 3: The Lump Sum for tank removal includes removal of two (2) feet of soil around tank. The lump sum includes disposal of contaminated soil within these limits. How does the Contractor price this work? Does he assume a percentage (%) of contaminated soil from this excavation? Contaminated soil excavation and disposal beyond the two (2) ft limit is a unit price item.

Response: *If contaminated soil is found within the two (2) ft limit of lump sum excavation the disposal of contaminated soil shall be paid at the unit price bid for Item 2002. Excavation and refill of non-contaminated soil within the two (2) foot limit shall be included in the lump sum bid under each tank removal item (Items 2007-2009).*

Question 4: Who will connect the propane tank to the piping that is installed by the Contactor?

Response: *The propane supplier shall install and connect the tank. The tank will not be installed until after the Contractor installs the heating units and piping. It will be the Contractor's responsibility to test the piping and heating units using a portable propane tank to ensure that system functions properly. The Contractor may wish to have a representative on site when the propane supplier re-tests the system after installation and connections are complete. References for testing are Section 1006 Testing and Commissioning and Section 15620 Furnaces.*

Question 5: Will the Authority accept alternates to the ConVault tank system?

Response: *Yes. Alternatives will be received by Doug Novocin for review.*

Final determination: Revised specifications are provided in the Addendum No. 2. It will be the Contractor's responsibility to demonstrate that an alternate manufacturer can meet the performance and material requirements of the system specified in the Contract Documents.

As there were no further questions, the meeting was then adjourned.

Responses to Submitted Questions
Contractor's Faxed Questions received from Containment Solutions, Inc.

Question 1: Containment Solutions, Inc. submitted for review Hoover Vault Tank UL 2085 as an approved alternate for the specified AST in Section 1002. They supplied specification and warranty information.

Response: *Thank you for your letter requesting an alternative tank system to the one specified in the Contract BB-2042-000-002 - Invitation for Bids, January 2010. Your submittal has been reviewed in accordance with Section 1002, Part 3.-7.*

The UL 2085 tank system MDTA specified in Contract BB-2042-000-002 requires a monolithic concrete vault enclosure protecting both the primary tank and secondary containment. The exposed outer steel tank in your alternative is in direct conflict with this project specification and therefore does not fulfill the Specification Section 1000, Part 2 – Materials, A. 1.3. and 9. requirements for this project.

Final determination: In Addendum No. 2, an additional option for steel above ground storage tanks has been provided. The bidders should review the new specifications to determine if their product meets these material and performance specifications.

Approved

LIST OF PURCHASERS OF INVITATION FOR BIDS

Contract No.: BB 2042-000-002
Bid Opening Date: **March 11, 2010**

Price: $60.00
Class: C

L A Fritter 4908 Preston Street Hyattsville, MD. 20781 P: (301) 773-7800 F: (301) 772-3585	Subsurface Technologies, Inc 1301 Avondale Rd. New Windsor, MD. 21776 P: (410) 848-6219 F: (410) 848-6564	Hopkins & Wayson, Inc. 601 Keith Lane Owings, MD. 20736 P: (301) 855-3303 F: (301) 855-3302
American Combustion Industries, Inc. 3520 Bladensburg Rd. Brentwood, MD. 20722 P: (301) 779-3400 F: (301) 779-0425	Total Environmental Concepts, Inc. 15 Park Avenue Gaithersburg, MD. 20877 P: (301) 548-0382 F: (301) 527-0248	Commercial Fuel Systems, Inc. 232 S. Main St. Mount Airy, MD. 21771 P: (240) 674-9149 F: (301) 829-4312
Jones & Frank Corp. 1707 Northwood Dr. Salisbury, MD. 21801 P: (410) 548-3213 x. 3408 F: (410) 742-4321	Joseph J. Hardy & Sons, Inc. 425 Old Airport Rd. New Castle, DE. 19720 P: (302) 328-9457 F: (302) 328-0434	Petroleum Services, Inc. 4200 E. Lombard St. Baltimore, MD. 21224 P: (410) 732-3444 F; (410) 675-9050
R. J. Newman, Inc. 4016 Heritage Hill Lane Ellicott City, MD. 21042 P: (301) 596-9410 F: (301) 596-9317	Core Engineered Solutions 620 Herndon Pkwy. Suite 120 Herndon, VA. 20170 P: (703) 563-0320 ext.205 F: (703) 563-0030	Maryland Pump & Tank, Inc. 2512 Erick St. Baltimore, MD. 21230 P: (410) 837-0770 F: (410) 547-0373
Apex Companies, LLC 15850 Crabbs Branch Way Rockville, MD. 20855 P: (301) 417-0200 F: (301) 975-0169	Tanks Direct 8580 Laureldale Drive Laurel, MD. 20724 P: (301) 317-6000 ext. 119 F: (301) 317-8265	The Fourth River Company 1121 Dexter St. Pittsburgh, PA. 15220 P: (412) 922-6252 F: (412) 922-6286
Construction Science Worldwide, Inc. 9627 Oak Summit Ave. Baltimore, MD. 21234 P: (410) 299-6747 F: (410) 663-0780	L & L Enterprises, Inc. 709 Keith Lane Owings, MD 20736 P: (301) 855-8787 F: (301) 855-6660	

Contract No. BB-2042-000-002

NAICS Codes	Descriptions
MOT	Maintenance of Traffic
238910	Site Preparation Contractors
562211	Hazardous Waste Treatment and Disposal
562112	Hazardous Waste Collection
237990	Other Heavy and Civil Engineering Construction
541330	Engineering Services
238990	All Other Specialty Trade Contractors
238110	Poured Concrete Foundation and Structure Contractor
238120	Structural Steel and Precast Concrete Contractors
238220	Plumbing, Heating, and Air-Conditioning Contractors
237310	Highway, Street, and Bridge Construction
561730	Landscaping Services
238210	Electrical Contractors
423810	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers
423830	Industrial Machinery and Equipment Merchant Wholesalers
332618	Other Fabricated Wire Product Manufacturing
335999	All Other Miscellaneous Electrical Equipment and Component Manufacturing
321999	All Other Miscellaneous Wood Product Manufacturing
327320	Ready-Mix Concrete Manufacturing
327390	Other Concrete Product Manufacturing
423320	Brick, Stone, and Related Construction Material Merchant Wholesalers
424910	Farm Supplies Merchant Wholesalers
424930	Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers
424990	Other Miscellaneous Nondurable Goods Merchant Wholesalers
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers

Maryland
Transportation
Authority

Minority Business Enterprise (MBE) Program Hand-out

Prepared By: Procurement and Statutory Program Compliance (PSPC)
September 2009

Contents

MINORITY BUSINESS ENTERPRISE PROGRAM HIGHLIGHTS

Maryland Transportation Authority

Minority Business Enterprise Program Highlights

For purposes of MBE contract goal attainment and MBE Contract Compliance, the following information highlights the Maryland Department of Transportation (MDOT) Program Requirements:

1. Any participating MBE must be certified by MDOT to perform the item(s) of work /service selected for contract goal attainment.

2. Any participating MBE must serve a commercially useful function and may not act like a broker, unless it is certified as a broker (insurance or real estate). A firm is considered to perform a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carries out it responsibilities by actually performing, managing and supervising the work involved and /or negotiates the cost of, arranges and accepts delivery of and pays for the materials or supplies required for the work of its contract. If, at any time before execution of the contract, the contractor determines that the designated MBE subcontractor has or will become unavailable, it immediately shall notify the Administration.

3. Any change in the approved MBE Plan must be approved in advance by the Administration and shall indicate the contractor's efforts to substitute another certified MBE subcontractor to perform the work.

4. Contract Goal Credits for Materials and Supplies.

    a. A bidder may count toward its MBE goal expenditures for materials and supplies obtained from certified business suppliers, provided that the certified businesses assume the actual and contractual responsibility for the provision of the materials and supplies. The bidder may count its entire expenditure to a certified business supplier that manufactures or produces goods from raw material or that substantially alters goods

before resale. The bidder may count 60 percent of the expenditures to certified suppliers who are not manufactures towards its MBE goals.

b. Double Payee (Joint) checks to MBEs and suppliers for materials used by an MBE sub-contractor for its contracted work are allowable providing such a payment arrangement is offered to all subcontractor relationships and not restricted to just MBEs, and the MBE participates in scheduling the delivery of the materials and is fully responsible for ensuring that the materials meet specifications. However, when the contractor makes such payments, it is recommended that the payments be made by jointly endorsable checks signed by the contractor and MBE.

c. For MBE firms that are not MBE regular dealers or manufacturers, a contractor may only count toward its MBE goal the fees charged for delivery of materials and supplies required on the job site (but not the cost of the materials and supplies themselves) when the trucking enterprise or delivery service is not also the manufacturer of or regular dealer in the materials and supplies, provided that the fee is determined by the administration to be reasonable and not excessive as compared with fees customarily allowed for similar services.

5. Third Tier Subcontracting. Third Tier Contracting is not the usual way for a prime contractor to achieve a MBE goal. However, there may be rare occasions when third tier contracting would be acceptable. Two conditions must be met before approval of a third tier contracting arrangement, which may be entered into to meet a MBE goal:

a. The Authority must be satisfied that there is no way except by third tier contracting that a MBE/DBE goal can be achieved;

b. The prime contractor must request of the Authority, in writing, prior to the awarding of a contract, that approval be granted for each third tier contract arrangement. The

request must contain the specifics as to why a third tier contracting arrangement is being requested to meet the MBE goal.

6. Waivers:

The Administration will strictly adhere to the requirement for documentation of any wavier requests as provided in COMAR. Accordingly, if, for any reason, a contractor is unable to achieve the contract goal or sub-goal MBE participation, it may request, in writing, an exception (waiver) to the goal with justification to include the following:

a. A detailed statement of the efforts made to select portions of the work proposed to be performed by certified MBE (s);

b. A detailed statement of the efforts made to contract and negotiate with certified MBEs including:

(i) The names, addresses, dates and telephone numbers of MBEs contacted; and

(ii) A description of the information provided to MBEs regarding the plans, specifications and anticipated time schedule for portions of the work to be performed:

(iii) As to each certified MBE that placed a subcontract quotation or offer that your company considers not to be acceptable, a detailed statement of the reasons for this conclusion; and

(iv) A list of certified MBEs found to be unavailable. This list should be accompanied by a MBE Unavailability Certification (Form D-EEO-005) signed by the MBE, or a detailed statement from the contractor concerning the MBE's refusal to give the certification.

A waiver of a contract goal may be granted only upon a reasonable demonstration by the bidder or offeror that certified MBE participation was unable to be obtained or was unable to

be obtained at a reasonable price and if the Administration determines that a waiver serves the public interest.

7. MBE Contract Compliance Monitoring ....MBE contract compliance monitoring commences upon official award of the contract has been made and continues throughout the life of the contract. An assigned contract compliance officer will advise the contractor and all approved participating MBE subcontractors, in writing, of compliance requirements, monitoring activities and will request necessary records to establish MBE contractor compliance. If a contractor or any participating MBE subcontractor is found to be in non-compliance with the terms of MDOT's MBE Program or with the State's MBE Law, and fails or refuses to take the corrective action required, administrative sanctions may be imposed in order to promote the purpose of MDOT's MBE Program. These may be, suspension of work, withholding payment, referral of the matter to the Office of the Attorney General for action, or any other action that is authorized under the contract or by State or federal laws.

8. Fraud Provisions

Bidders are advised that Section 14-308 of the MBE Law provides that a person may prosecuted for a felony for the following acts:

a. Fraudulently obtaining, holding or attempting to obtain or hold MBE certification;

b. Aiding another person in fraudulently obtaining, holding or attempting to obtain or hold MBE certification;

c. Willfully obstructing, impeding, or attempting to obstruct or impede a State officially or employee or employee investigating the qualifications of a business entity that has requested certification;

d. Fraudulently obtaining, attempting to obtain, or aiding another person in fraudulently obtaining or attempting to obtain, public monies to which the person is not entitled; or

e. In any minority business enterprise matter administered under subtitle14:

(i) Willfully falsify, conceal, or cover up a material fact by any scheme or device;

(ii) Make a false or fraudulent statement or representation; or

(iii) Use a false writing or document that the person knows to contain a false statement or entry

Persons found guilty of violating these provisions are guilty of a felony and on conviction are subject to a fine not exceeding $ 20,000 or imprisonment not exceeding five years, or both. Persons convicted under Section 14-308 may also be debarred from performing on State contracts by the Board of Public Works ("Board") for a period of time determined to be appropriate by the Board under the circumstances.

9. MBE Contract Support

Personnel of the Maryland Department of Transportation, its Administrations and the Authority offer contractor practicable support for MBE contract goal attainment. This assistance is available from Monday through Friday during normal business hours by calling 410-865-1269. Examples of MDOT Program assistance include:

To Majority Contractors

- Identifying subcontract items for goal attainment
- Answering questions related to MBE Program requirements

To Minority Contractors

- Answering questions related to MBE Program requirements
- Providing information on required contract records
- Referral to designated consultants for assistance for business related problems

MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT)

MINORITY BUSINESS ENTERPRISE (MBE) FORMS

STATE-FUNDED

"A" thru "D"

For bids only

MDOT MBE FORM A
STATE-FUNDED CONTRACTS (BIDS ONLY)
CERTIFIED MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
PAGE 1 OF 2

THIS AFFIDAVIT MUST BE INCLUDED WITH THE BID. IF THE BIDDER FAILS TO ACCURATELY COMPLETE AND SUBMIT THIS AFFIDAVIT AS REQUIRED, THE BID SHALL BE DEEMED NOT RESPONSIVE.

In connection with the bid submitted in response to Solicitation No. , I affirm the following:

1. MBE Participation (PLEASE CHECK ONLY ONE)

☐ I have met the overall certified Minority Business Enterprise (MBE) participation goal of percent (%) and the subgoal of percent (%) for Women-Owned MBE firms and the subgoal of percent (%) for African-American Owned MBE firms. I agree that the MBE firms listed in the MBE Participation Schedule - Part 2 of the MDOT MBE Form B (State-Funded Contracts – Bids Only) will be used to accomplish the MBE participation goal and subgoals (if any) for this Contract for at least the dollar amounts set forth therein.

OR

☐ I conclude that I am unable to achieve the MBE participation goal and/or subgoals. I hereby request a waiver of the overall goal and/or subgoals. Within 10 business days of receiving notice that our firm is the apparent awardee or as requested by the Procurement Officer, I will submit a written waiver request and all required documentation in accordance with COMAR 21.11.03.11. I agree that the MBE firms listed in the MBE Participation Schedule - Part 2 of the MDOT MBE Form B (State-Funded Contracts – Bids Only) will be used to accomplish the MBE participation goal and subgoals (if any) for this Contract for at least the dollar amounts set forth therein.

2. Additional MBE Documentation

I understand that if I am notified that I am the apparent awardee or as requested by the Procurement Officer, I must submit the following documentation within 10 business days of receiving such notice:
(a) Outreach Efforts Compliance Statement (MDOT MBE Form C - State-Funded Contracts – Bids Only);
(b) Subcontractor Project Participation Statement (MDOT MBE Form D - State-Funded Contracts – Bids Only);
(c) MBE Waiver Request documentation per COMAR 21.11.03.11 (if waiver was requested); and
(d) Any other documentation required by the Procurement Officer to ascertain bidder's responsibility in connection with the certified MBE participation goal and subgoals, if any.

I acknowledge that if I fail to return each completed document (in 2 (a) through (d)) within the required time, the Procurement Officer may determine that I am not responsible and therefore not eligible for contract award.

MDOT MBE FORM A
STATE-FUNDED CONTRACTS (BIDS ONLY)
CERTIFIED MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
PAGE 2 OF 2

3. Information Provided to MBE firms

In the solicitation of subcontract quotations or offers, MBE firms were provided not less than the same information and amount of time to respond as were non-MBE firms.

I solemnly affirm under the penalties of perjury that the information in this affidavit is true to the best of my knowledge, information and belief.

Company Name	Signature of Representative
Address	Printed Name and Title
City, State and Zip Code	Date

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (BIDS ONLY)
MBE PARTICIPATION SCHEDULE

PART 1 – INSTRUCTIONS FOR MBE PARTICIPATION SCHEDULE

PARTS 2 AND 3 MUST BE INCLUDED WITH THE BID. IF THE BIDDER FAILS TO ACCURATELY COMPLETE AND SUBMIT PART 2 WITH THE BID AS REQUIRED, THE BID SHALL BE DEEMED NOT RESPONSIVE.

*** STOP ***
FORM INSTRUCTIONS
PLEASE READ BEFORE COMPLETING THIS FORM

1. Please refer to the Maryland Department of Transportation (MDOT) MBE Directory at www.mdot.state.md.us to determine if a firm is certified for the appropriate North American Industry Classification System ("NAICS") Code **and** the product/services description (specific product that a firm is certified to provide or specific areas of work that a firm is certified to perform). For more general information about NAICS, please visit www.naics.com. Only those specific products and/or services for which a firm is certified in the MDOT Directory can be used for purposes of achieving the MBE participation goals.

2. In order to be counted for purposes of achieving the MBE participation goals, the firm must be certified for that specific NAICS ("MBE" for State-funded projects designation after NAICS Code). **WARNING:** If the firm's NAICS Code is in **graduated status**, such services/products **will not be counted** for purposes of achieving the MBE participation goals. Graduated status is clearly identified in the MDOT Directory (such graduated codes are designated with the word graduated after the appropriate NAICS Code).

3. Examining the NAICS Code is the **first step** in determining whether an MBE firm is certified and eligible to receive MBE participation credit for the specific products/services to be supplied or performed under the contract. The **second step** is to determine whether a firm's Products/Services Description in the MBE Directory includes the products to be supplied and/or services to be performed that are used to achieve the MBE participation goals.

4. If you have any questions as to whether a firm is certified to perform the specific services or provide specific products, please call MDOT's Office of Minority Business Enterprise at 1-800-544-6056 or via email at mbe@mdot.state.md.us.

5. The Contractor's subcontractors are considered second-tier subcontractors. Third-tier contracting used to meet an MBE goal is to be considered the exception and not the rule. The following two conditions must be met before MDOT, its Modal Administrations and the Maryland Transportation Authority, may approve a third-tier contracting agreement: (a) the bidder must request in writing approval of each third-tier contract arrangement, and (b) the request must contain specifics as to why a third-tier contracting arrangement should be approved. These documents must be submitted with the bid in Part 2 of this MBE Participation Schedule.

6. For each MBE firm that is being used as supplier/wholesaler/regular dealer/broker/manufacturer, please follow these instructions for calculating the **dollar amount of the subcontract for purposes of achieving the MBE participation goals:**

   A. Is the firm certified as a broker of the products/supplies? If the answer is YES, please continue to Item C. If the answer is NO, please continue to Item B.

   B. Is the firm certified as a supplier, wholesaler, regular dealer, or manufacturer of such products/supplies? If the answer is YES, continue to Item D. If the answer is NO, continue to Item C only if the MBE firm is certified to perform trucking/hauling services under NAICS Codes 484110, 484121, 484122, 484210, 484220 and 484230. If the answer is NO and the firm is not certified under these NAICS Codes, then no MBE participation credit will be given for the supply of these products.

   C. For purposes of achieving the MBE participation goal, you may count only the amount of any reasonable fee that the MBE firm will receive for the provision of such products/supplies - not the total subcontract amount or the value (or a percentage thereof) of such products and/or supplies. In Column 4 of the MBE Participation Schedule, please state the amount of any reasonable fee that the MBE firm will receive for the provision of such products/services in Line 4.1.

   D. Is the firm certified as a manufacturer (refer to the firm's NAICS Code and specific description of products/services) of the products/supplies to be provided? If the answer is NO, please continue to Item E. If the answer is YES, for purposes of achieving the MBE participation goal, you may count the total amount of the subcontract. In Column 4 of the MBE Participation Schedule, please state the total amount of the subcontract in Line 4.1.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (BIDS ONLY)
MBE PARTICIPATION SCHEDULE

PART 1 – INSTRUCTIONS FOR MBE PARTICIPATION SCHEDULE

E. Is the firm certified as a supplier, wholesaler and/or regular dealer? If the answer is YES (i) if the MBE firm is furnishing and installing the materials and is certified to perform these services, please include in Line 4.1 the total value of the subcontract amount (including full value of supplies); or (ii) if the firm is only being used as a supplier, wholesaler and/or regular dealer or is not certified to install the supplies/materials, for purposes of achieving the MBE participation goal, you may only count sixty percent (60%) of the value of the subcontract for these supplies/products (60% Rule). In Column 4, Section 4.2 of the MBE Participation Schedule, please state the amount of the subcontract for these supplies/products only (not installation) and sixty percent (60%) of such value.

7. **WARNING:** The percentage of MBE participation, computed using the dollar amounts in Column 4 for all of the MBE firms listed in Part 2, MUST at least equal the MBE participation goal and subgoals (if applicable) as set forth in MDOT MBE Form A – State-Funded Contracts (Bids Only) for this solicitation. If a bidder is unable to achieve the MBE participation goal and/or any subgoals (if applicable), then the bidder must request a waiver in Form A or the bid will be deemed not responsive. You may wish to use the Worksheet shown below to assist you in calculating the percentages and confirming that you have met the applicable MBE participation goal and subgoals (if any).

WORKSHEET

Total African American-Owned Firm Participation Amount (Add amounts listed for African-American Owned Firms in Column 4 of MBE Participation Schedule)	$_____
Divide by Total Contract Amount	÷_____
Percent African American-Owned Participation	=_____%
Total Women-Owned Firm Participation Amount (Add amounts listed for Women-Owned Firms in Column 4 of MBE Participation Schedule)	$_____
Divide by Total Contract Amount	÷_____
Percent Women-Owned Firm Participation	=_____%
Total MBE Firm Participation Amount (Add amounts listed for all MBE Firms in Column 4 of MBE Participation Schedule)	$_____
Divide by Total Contract Amount	÷_____
Percent Overall MBE Participation	=_____%

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (BIDS ONLY)
MBE PARTICIPATION SCHEDULE

PART 2 – MBE PARTICIPATION SCHEDULE

PART 2 MUST BE INCLUDED WITH THE BID. IF THE BIDDER FAILS TO ACCURATELY COMPLETE AND SUBMIT PART 2 WITH THE BID AS REQUIRED, THE BID SHALL BE DEEMED NOT RESPONSIVE.

PAGE ___ OF ___

Prime Contractor	Project Description	Solicitation Number

LIST INFORMATION FOR EACH CERTIFIED MBE SUBCONTRACTOR USED TO ACHIEVE THE MBE PARTICIPATION GOAL

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 Unless the bidder requested a waiver in MDOT MBE Form A – State Funded Contracts (Bids Only) for this solicitation, the cumulative MBE participation for all MBE firms listed herein must equal at least the MBE participation goal and subgoals set forth in Form A.
NAME OF MBE SUBCONTRACTOR AND TIER	CERTIFICATION NO. AND MBE CLASSIFICATION	NAICS CODE/S NAICS Code/s of the specific products to be supplied or services to be performed by the MBE firm	FOR PURPOSES OF ACHIEVING THE MBE PARTICIPATION GOAL AND SUBGOALS. State the dollar amount of the products/services in Line 4.1 except for those services or products where the MBE firm is being used as a wholesaler, supplier, regular dealer, or broker. For those items of work where the MBE firm is being used as a supplier, wholesaler and/or regular dealer complete Line 4.2 using the 60% Rule.
☐ Please check if MBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: _____ ☐ Women-Owned ☐ African American-Owned ☐ Other MBE Classification		4.1 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR (EXCLUDING PRODUCTS/SERVICES FROM SUPPLIERS, WHOLESALERS, REGULAR DEALERS AND BROKERS) $ 4.2 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR FOR ITEMS OF WORK WHERE THE MBE FIRM IS BEING USED AS A SUPPLIER, WHOLESALER AND/OR REGULAR DEALER) (PLEASE REFER TO SECTION 6(E) IN PART 1 - INSTRUCTIONS). Total value of Supplies/Products $ X 60% (60% Rule) = $ (Amount for purposes of achieving the MBE Participation Goal and Subgoals).

☐Please check if Continuation Sheets are attached.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (BIDS ONLY)
MBE PARTICIPATION SCHEDULE
CONTINUATION SHEET

PAGE ___ OF ___

Prime Contractor	Project Description	Solicitation Number

LIST INFORMATION FOR EACH CERTIFIED MBE SUBCONTRACTOR USED TO ACHIEVE THE MBE PARTICIPATION GOAL

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 Unless the bidder requested a waiver in MDOT MBE Form A – State Funded Contracts (Bids Only) for this solicitation, the cumulative MBE participation for all MBE firms listed herein must equal at least the MBE participation goal and subgoals set forth in Form A.
NAME OF MBE SUBCONTRACTOR AND TIER	CERTIFICATION NO. AND MBE CLASSIFICATION	NAICS CODE/S NAICS Code/s of the specific products to be supplied or services to be performed by the MBE firm	FOR PURPOSES OF ACHIEVING THE MBE PARTICIPATION GOAL AND SUBGOALS. State the dollar amount of the products/services in Line 4.1 except for those services or products where the MBE firm is being used as a wholesaler, supplier, regular dealer, or broker. For those items of work where the MBE firm is being used as a supplier, wholesaler and/or regular dealer complete Line 4.2 using the 60% Rule.
☐ Please check if MBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: _____ ☐ Women-Owned ☐ African American-Owned ☐ Other MBE Classification		4.1 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR (EXCLUDING PRODUCTS/SERVICES FROM SUPPLIERS, WHOLESALERS, REGULAR DEALERS AND BROKERS) $ 4.2 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR FOR ITEMS OF WORK WHERE THE MBE FIRM IS BEING USED AS A SUPPLIER, WHOLESALER AND/OR REGULAR DEALER) (PLEASE REFER TO SECTION 6(E) IN PART 1 - INSTRUCTIONS). Total value of Supplies/Products $ X 60% (60% Rule) = $ (Amount for purposes of achieving the MBE Participation Goal and Subgoals).

☐Please check if Continuation Sheets are attached.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (BIDS ONLY)
MBE PARTICIPATION SCHEDULE

PART 3 – CERTIFICATION FOR MBE PARTICIPATION SCHEDULE

PARTS 2 AND 3 MUST BE INCLUDED WITH THE BID. AS DIRECTED IN THE INVITATION TO BID.

I hereby affirm that I have reviewed the Products and Services Description (specific product that a firm is certified to provide or areas of work that a firm is certified to perform) set forth in the MDOT MBE Directory for each of the MBE firms listed in Part 2 of this MBE Form B for purposes of achieving the MBE participation goals and subgoals that were identified in the MBE Form A that I submitted with this solicitation, and that the MBE firms listed are only performing those products/services/areas of work for which they are certified. I also hereby affirm that I have read and understand the form instructions set forth in Part 1 of this MBE Form B.

I solemnly affirm under the penalties of perjury that the contents of Parts 2 and 3 of MDOT MBE Form B are true to the best of my knowledge, information and belief.

Company Name	Signature of Representative
Address	Printed Name and Title
City, State and Zip Code	Date

MDOT MBE FORM C

STATE-FUNDED CONTRACTS (BIDS ONLY)
OUTREACH EFFORTS COMPLIANCE STATEMENT

In conjunction with the bid submitted in response to Solicitation No. _____, I state the following:

1. Bidder took the following efforts to identify subcontracting opportunities in these specific work categories:

2. Attached to this form are copies of written solicitations (with bidding instructions) used to solicit certified MBE firms for these subcontract opportunities.

3. Bidder made the following attempts to personally contact the solicited MBE firms:

4. **Please Check One**:

☐ Bidder assisted MBE firms to fulfill or to seek waiver of bonding requirements. (DESCRIBE EFFORTS)

☐ This project does not involve bonding requirements.

5. **Please Check One**:

☐ Bidder did attend the pre-bid meeting/conference

☐ No pre-bid meeting/conference was held.

☐ Bidder did not attend the pre-bid meeting/conference

_____ Company Name

_____ Address

_____ Signature of Representative

_____ Printed Name and Title

_____ Date

MDOT MBE FORM D

STATE-FUNDED CONTRACTS (BIDS ONLY)

MBE SUBCONTRACTOR PROJECT PARTICIPATION AFFIDAVIT

IF THE BIDDER FAILS TO RETURN THIS AFFIDAVIT WITHIN THE REQUIRED TIME, THE PROCUREMENT OFFICER MAY DETERMINE THAT THE BIDDER IS NOT RESPONSIBLE AND THEREFORE NOT ELIGIBLE FOR CONTRACT AWARD. SUBMIT ONE FORM FOR EACH CERTIFIED MBE FIRM LISTED IN THE MBE PARTICIPATION SCHEDULE

Provided that _____ (Prime Contractor's Name) is awarded the State contract in conjunction with Solicitation No. _____, such Prime Contractor will enter into a contract with _____(Subcontractor's Name) committing to participation by the MBE firm _____ (MBE Name) with MDOT Certification Number _____ (if subcontractor previously listed is also the MBE firm, please restate name and provide MBE Certification Number) will receive for at least $_____ (Total Subcontract Amount) for performing the following products/services for the Contract:

NAICS CODE	WORK ITEM, SPECIFICATION NUMBER, LINE ITEMS OR WORK CATEGORIES (IF APPLICABLE)	DESCRIPTION OF SPECIFIC PRODUCTS AND/OR SERVICES

I solemnly affirm under the penalties of perjury that the information provided in this MBE Subcontractor Project Participation Affidavit is true to the best of my knowledge, information and belief. I acknowledge that, for purposes of determining the accuracy of the information provided herein, the Procurement Officer may request additional information, including, without limitation, copies of the subcontract agreements and quotes.

PRIME CONTRACTOR	SUBCONTRACTOR (SECOND-TIER)	SUBCONTRACTOR (THIRD-TIER)
Signature of Representative:	Signature of Representative:	Signature of Representative:
_____	_____	_____
Printed Name and Title:_____	Printed Name and Title:_____	Printed Name and Title:_____
_____	_____	_____
Firm's Name:	Firm's Name: _____	Firm's Name: _____
_____	Federal Identification Number: _____	Federal Identification Number: _____
Address: _____	Address: _____	Address: _____
_____	_____	_____
Telephone: _____	Telephone: _____	Telephone: _____
Date: _____	Date: _____	Date: _____

IF MBE FIRM IS A THIRD-TIER SUBCONTRACTOR, THIS FORM MUST ALSO BE EXECUTED BY THE SECOND-TIER SUBCONTRACTOR THAT HAS THE SUBCONTRACT AGREEMENT WITH THE MBE FIRM.

Maryland Transportation Authority (MdTA)
Office of Minority Business Enterprise
2310 Broening Highway , Suite 150
Baltimore, Maryland 21224
(410) 537-6769 (410) 537-7801 – Fax

Maryland Transportation Authority

Disadvantaged/Minority Contractor Unavailability Certificate - D-005 (02-03)

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS;

It is hereby certified that:

_____

(Name of Prime Contractor)

_____

(Number) (Street) (City) (State) (Zip code)

On _____ **contacted the Disadvantage/Minority Business Enterprise:**
(Date)

_____

(Name of Sub-contractor)

_____

(Number) (Street) (City) (State) (Zip code)

Seeking to obtain a Bid for work/service in relation to project/contract number: _____

List the type of work/service requested:

_____
_____
_____

Indicate the form of Bid sought:

_____
_____

Reason given by Sub-contractor for lack of participation:

_____
_____

Certification:

To the best of my knowledge and belief, said subcontractor is unavailable or unable to participate due to the above reason. Signature of Prime Contractor:

_____

(Name) **(Date)**

The above statement is a true and accurate account of why my Firm is unable to participate. Signature of Sub-contractor:

_____

(Name) **(Date)**

MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT)

MINORITY BUSINESS ENTERPRISE (MBE) FORMS
STATE-FUNDED

"A" thru "D"
For Proposals only

MDOT MBE FORM A
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
CERTIFIED MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
PAGE 1 OF 2

THIS AFFIDAVIT MUST BE INCLUDED WITH THE PROPOSAL AS DIRECTED IN THE SOLICITATION. THE FAILURE OF AN OFFEROR TO PROPERLY COMPLETE AND SUBMIT THIS AFFIDAVIT SHALL RESULT IN A DETERMINATION THAT THE PROPOSAL IS NOT SUSCEPTIBLE OF BEING SELECTED FOR AWARD.

In connection with the proposal submitted in response to Solicitation No. , I affirm the following:

1. MBE Participation (PLEASE CHECK ONLY ONE)

☐ I have met the overall certified Minority Business Enterprise (MBE) participation goal of percent (%) and the subgoal of (%) percent for Women-Owned MBE firms and the subgoal of percent (%) for African-American Owned MBE firms. I agree that the MBE firms listed in the MBE Participation Schedule - Part 2 of the MDOT MBE Form B (State-Funded Contracts – Proposals Only) will be used to accomplish the MBE participation goal and subgoals (if any) for this Contract for at least the percentage amounts set forth therein.

OR

☐ I conclude that I am unable to achieve the MBE participation goal and/or subgoals. I hereby request a waiver of the overall goal and/or subgoals. Within 10 business days of receiving notice that our firm is the apparent awardee or as requested by the Procurement Officer, I will submit a written waiver request and all required documentation in accordance with COMAR 21.11.03.11. I agree that the MBE firms listed in the MBE Participation Schedule - Part 2 of the MDOT MBE Form B (State-Funded Contracts – Proposals Only) will be used to accomplish the MBE participation goal and subgoals (if any) for this Contract for at least the percentage amounts set forth therein.

2. Additional MBE Documentation

I understand that if I am notified that I am the apparent awardee or as requested by the Procurement Officer, I must submit the following documentation within 10 business days of receiving such notice:
(a) Outreach Efforts Compliance Statement (MDOT MBE Form C - State-Funded Contracts – Proposals Only);
(b) Subcontractor Project Participation Statement (MDOT MBE Form D - State-Funded Contracts – Proposals Only);
(c) MBE Waiver Request documentation per COMAR 21.11.03.11 (if waiver was requested); and
(d) Any other documentation required by the Procurement Officer to ascertain offeror's responsibility in connection with the certified MBE participation goal and subgoals, if any.

I acknowledge that if I fail to return each completed document (in 2 (a) through (d)) within the required time, the Procurement Officer may determine that I am not responsible and therefore not eligible for contract award.

MDOT MBE FORM A
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
CERTIFIED MBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
PAGE 2 OF 2

3. Information Provided to MBE firms

In the solicitation of subcontract quotations or offers, MBE firms were provided not less than the same information and amount of time to respond as were non-MBE firms.

I solemnly affirm under the penalties of perjury that the information in this affidavit is true to the best of my knowledge, information and belief.

Company Name	Signature of Representative
Address	Printed Name and Title
City, State and Zip Code	Date

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
MBE PARTICIPATION SCHEDULE

PART 1 – INSTRUCTIONS FOR MBE PARTICIPATION SCHEDULE

PARTS 2 AND 3 MUST BE INCLUDED WITH THE PROPOSAL. THE FAILURE OF AN OFFEROR TO PROPERLY COMPLETE AND SUBMIT PART 2 SHALL RESULT IN A DETERMINATION THAT THE PROPOSAL IS NOT SUSCEPTIBLE OF BEING SELECTED FOR AWARD.

*** STOP ***

FORM INSTRUCTIONS
PLEASE READ BEFORE COMPLETING THIS FORM

1. Please refer to the Maryland Department of Transportation (MDOT) MBE Directory at www.mdot.state.md.us to determine if a firm is certified for the appropriate North American Industry Classification System ("NAICS") Code **and** the product/services description (specific product that a firm is certified to provide or specific areas of work that a firm is certified to perform). For more general information about NAICS, please visit www.naics.com. Only those specific products and/or services for which a firm is certified in the MDOT Directory can be used for purposes of achieving the MBE participation goals.

2. In order to be counted for purposes of achieving the MBE participation goals, the firm must be certified for that specific NAICS ("MBE" for State-funded projects designation after NAICS Code). **WARNING:** If the firm's NAICS Code is in **graduated status**, such services/products **will not be counted** for purposes of achieving the MBE participation goals. Graduated status is clearly identified in the MDOT Directory (such graduated codes are designated with the word graduated after the appropriate NAICS Code).

3. Examining the NAICS Code is the **first step** in determining whether an MBE firm is certified and eligible to receive MBE participation credit for the specific products/services to be supplied or performed under the contract. The **second step** is to determine whether a firm's Products/Services Description in the MBE Directory includes the products to be supplied and/or services to be performed that are used to achieve the MBE participation goals.

4. If you have any questions as to whether a firm is certified to perform the specific services or provide specific products, please call MDOT's Office of Minority Business Enterprise at 1-800-544-6056 or send an email to mbe@mdot.state.md.us.

5. The Contractor's subcontractors are considered second-tier subcontractors. Third-tier contracting used to meet an MBE goal is to be considered the exception and not the rule. The following two conditions must be met before MDOT, its Modal Administrations and the Maryland Transportation Authority, may approve a third-tier contracting agreement: (a) the bidder must request in writing approval of each third-tier contract arrangement, and (b) the request must contain specifics as to why a third-tier contracting arrangement should be approved. These documents must be submitted with the proposal in Part 2 of this MBE Participation Schedule.

6. For each MBE firm that is being used as supplier/wholesaler/regular dealer/broker/manufacturer, please follow these instructions for calculating the **percentage of the Contract (as provided in price/financial proposal or any best and final offer) for purposes of achieving the MBE participation goal and subgoals (if applicable):**

   A. Is the firm certified as a broker of the products/supplies? If the answer is YES, please continue to Item C. If the answer is NO, please continue to Item B.

   B. Is the firm certified as a supplier, wholesaler, regular dealer, or manufacturer of such products/supplies? If the answer is YES, continue to Item D. If the answer is NO, continue to Item C only if the MBE firm is certified to perform trucking/hauling services under NAICS Codes 484110, 484121, 484122, 484210, 484220 and 484230. If the answer is NO and the firm is not certified under these NAICS Codes, then no MBE participation credit will be given for the supply of these products.

   C. For purposes of achieving the MBE participation goal, you may count only the amount of any reasonable fee that the MBE firm will receive for the provision of such products/supplies - not the total subcontract amount or the value (or a percentage thereof) of such products and/or supplies. In Column 4 of the MBE Participation Schedule, please state the amount of any reasonable fee as a percentage of Contract that the MBE firm will receive for the provision of such products/services in Line 4.1.

   D. Is the firm certified as a manufacturer (refer to the firm's NAICS Code and specific description of products/services) of the products/supplies to be provided? If the answer is NO, please continue to Item E. If the answer is YES, for purposes of achieving the MBE participation goal, you may count the total amount of the subcontract. In Column 4 of the MBE Participation Schedule, please state the total amount of the subcontract in Line 4.1 as a percentage of Contract.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
MBE PARTICIPATION SCHEDULE
PART 1 – INSTRUCTIONS FOR MBE PARTICIPATION SCHEDULE

E. Is the firm certified as a supplier, wholesaler and/or regular dealer? If the answer is YES (i) if the MBE firm is furnishing and installing the materials and is certified to perform these services, please include in Line 4.1 the total value of the subcontract amount (including full value of supplies); or (ii) if the firm is only being used as a supplier, wholesaler and/or regular dealer or is not certified to install the supplies/materials, for purposes of achieving the MBE participation goal, you may only count sixty percent (60%) of the value of the subcontract for these supplies/products (60% Rule). In Line, 4.2 of the MBE Participation Schedule, please state amount of the subcontract for these supplies/products only (not installation) and sixty percent (60%) of such value.

7. **WARNING:** Please note that the cumulative MBE participation in Column 4 for all of the MBE firms listed in Part 2 MUST at least equal the MBE participation goal and subgoals (if applicable) as set forth in MDOT MBE Form A – State-Funded Contracts (Proposals Only) for this solicitation. If an offeror is unable to achieve the MBE participation goals and/or any subgoals (if applicable), then the offeror must request a waiver in Form A or it may result in a determination that the proposal is not susceptible of being selected for award.

Worksheet shown below to assist you in calculating the percentages and confirming that you have met the applicable MBE participation goal and subgoals (if any).

WORKSHEET

Total African American Owned Firm Participation Amount (Add amounts listed for African American Owned Firms in Column 4 of MBE Participation Schedule) Divide by Total Contract Amount Percent African American-Owned Participation	$_____ ÷_____ =_____%
Total Women-Owned Firm Participation Amount (Add amounts listed for Women-Owned Firms in Column 4 of MBE Participation Schedule) Divide by Total Contract Amount Percent Women-Owned Firm Participation	_____ ÷_____ =_____%
Total MBE Firm Participation Amount (Add amounts listed for all MBE Firms in Column 4 of MBE Participation Schedule) Divide by Total Contract Amount ***Percent Overall MBE Participation***	$_____ ÷_____ =_____%

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
MBE PARTICIPATION SCHEDULE

PART 2 – MBE PARTICIPATION SCHEDULE

PART 2 MUST BE INCLUDED WITH THE PROPOSAL AS DIRECTED IN THE SOLICITATION. THE FAILURE OF AN OFFEROR TO PROPERLY COMPLETE AND SUBMIT PART 2 OF THE MBE PARTICIPATION SCHEDULE SHALL RESULT IN A DETERMINATION THAT THE PROPOSAL IS NOT SUSCEPTIBLE TO BEING SELECTED FOR AWARD.

PAGE ___ OF ___

Prime Contractor	Project Description	Solicitation Number

LIST INFORMATION FOR EACH CERTIFIED MBE SUBCONTRACTOR USED TO ACHIEVE THE MBE PARTICIPATION GOAL

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 Unless the offeror requested a waiver in MDOT MBE Form A – State Funded Contracts (Proposals Only) for this solicitation, the cumulative MBE participation for all MBE firms listed herein must equal at least the MBE participation goal and subgoals set forth in Form A.
NAME OF MBE SUBCONTRACTOR AND TIER	CERTIFICATION NO. AND MBE CLASSIFICATION	NAICS CODE/S NAICS Code/s of the specific products to be supplied or services to be performed by the MBE firm	FOR PURPOSES OF ACHIEVING THE MBE PARTICIPATION GOAL AND SUBGOALS. State the subcontract amount as a percentage of the total contract of the product/services in Line 4.1 except for those services or products where the MBE Firm is being used as a wholesaler, supplier or regular dealer. For those items of work where the MBE firm is being used as a supplier, wholesaler and/or regular dealer, complete Line 4.2 using the 60% rule.
☐ Please check if MBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: _____ ☐ Women-Owned ☐ African American-Owned ☐ Other MBE Classification		4.1 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR - PLEASE STATE THIS AMOUNT AS A PERCENTAGE OF THE TOTAL CONTRACT VALUE. (EXCLUDING PRODUCTS/SERVICES FROM SUPPLIERS, WHOLESALERS, AND REGULAR DEALERS – SEE 4.2 BELOW) _____% 4.2 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRARCTOR FOR ITEMS OF WORK WHERE THE MBE FIRM IS BEING USED AS A SUPPLIER, WHOLESALER AND/OR REGULAR DEALER) (PLEASE REFER TO SECTION 6(E) IN PART 1 - INSTRUCTIONS). Total value of Supplies/Products _____% X 60% (60% Rule) = _____% (amount for purposes of achieving the MBE Participation Goal and Subgoals).

☐ Please check if Continuation Sheets are attached.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
MBE PARTICIPATION SCHEDULE
CONTINUATION SHEET

PAGE ___ OF ___

Prime Contractor	Project Description	Solicitation Number

LIST INFORMATION FOR EACH CERTIFIED MBE SUBCONTRACTOR USED TO ACHIEVE THE MBE PARTICIPATION GOAL

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 Unless the offeror requested a waiver in MDOT MBE Form A – State Funded Contracts (Proposals Only) for this solicitation, the cumulative MBE participation for all MBE firms listed herein must equal at least the MBE participation goal and subgoals set forth in Form A.
NAME OF MBE SUBCONTRACTOR AND TIER	CERTIFICATION NO. AND MBE CLASSIFICATION	NAICS CODE/S NAICS Code/s of the specific products to be supplied or services to be performed by the MBE firm	FOR PURPOSES OF ACHIEVING THE MBE PARTICIPATION GOAL AND SUBGOALS. State the subcontract amount as a percentage of the total contract of the product/services in Line 4.1 except for those services or products where the MBE Firm is being used as a wholesaler, supplier or regular dealer. For those items of work where the MBE firm is being used as a supplier, wholesaler and/or regular dealer, complete Line 4.2 using the 60% rule.
☐ Please check if MBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: _____ ☐ Women-Owned ☐ African American-Owned ☐ Other MBE Classification		4.1 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRACTOR (PLEASE STATE THIS AMOUNT AS A PERCENTAGE OF THE TOTAL CONTRACT VALUE - EXCLUDING PRODUCTS/SERVICES FROM SUPPLIERS, WHOLESALERS, AND REGULAR DEALERS) _____% 4.2 TOTAL AMOUNT TO BE PAID TO THE SUBCONTRARCTOR FOR ITEMS OF WORK WHERE THE MBE FIRM IS BEING USED AS A SUPPLIER, WHOLESALER AND/OR REGULAR DEALER) (PLEASE REFER TO SECTION 6(E) IN PART 1 - INSTRUCTIONS). Total value of Supplies/Products _____% X 60% (60% Rule) = _____% (amount for purposes of achieving the MBE Participation Goal and Subgoals).

☐ Please check if Continuation Sheets are attached.

MDOT MBE FORM B
STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
MBE PARTICIPATION SCHEDULE

PART 3 – CERTIFICATION FOR MBE PARTICIPATION SCHEDULE

PARTS 2 AND 3 MUST BE INCLUDED WITH THE PROPOSAL AS DIRECTED IN THE SOLICITATION.

I hereby affirm that I have reviewed the Products and Services Description (specific product that a firm is certified to provide or areas of work that a firm is certified to perform) set forth in the MDOT MBE Directory for each of the MBE firms listed in Part 2 of this MBE Form B for purposes of achieving the MBE participation goals and subgoals that were identified in the MBE Form A that I submitted with this solicitation, and that the MBE firms listed are only performing those products/services/areas of work for which they are certified. I also hereby affirm that I have read and understand the form instructions set forth in Part 1 of this MBE Form B.

I solemnly affirm under the penalties of perjury that the contents of Parts 2 and 3 of MDOT MBE Form B are true to the best of my knowledge, information and belief.

Company Name	Signature of Representative
Address	Printed Name and Title
City, State and Zip Code	Date

MDOT MBE FORM C

STATE-FUNDED CONTRACTS (PROPOSALS ONLY)
OUTREACH EFFORTS COMPLIANCE STATEMENT

In conjunction with the offer/proposal submitted in response to Solicitation No. , I state the following:

1. Offeror took the following efforts to identify subcontracting opportunities in these specific work categories:

2. Attached to this form are copies of written solicitations (with bidding instructions) used to solicit certified MBE firms for these subcontract opportunities.

3. Offeror made the following attempts to personally contact the solicited MBE firms:

4. **Please Check One**:

☐ Offeror assisted MBE firms to fulfill or to seek waiver of bonding requirements. (DESCRIBE EFFORTS)

☐ This project does not involve bonding requirements.

5. **Please Check One**:

☐ Offeror did attend the pre-proposal meeting/conference

☐ No pre-proposal meeting/conference was held.

☐ Offeror did not attend the pre-proposal meeting/conference

Company Name

Signature of Representative

Address

Printed Name and Title

Date

MDOT MBE FORM D

STATE-FUNDED CONTRACTS (PROPOSALS ONLY)

MBE SUBCONTRACTOR PROJECT PARTICIPATION AFFIDAVIT

IF THE OFFEROR FAILS TO RETURN THIS AFFIDAVIT WITHIN THE REQUIRED TIME, THE PROCUREMENT OFFICER MAY DETERMINE THAT THE OFFEROR IS NOT RESPONSIBLE AND THEREFORE NOT ELIGIBLE FOR CONTRACT AWARD. SUBMIT ONE FORM FOR EACH CERTIFIED MBE FIRM LISTED IN THE MBE PARTICIPATION SCHEDULE

Provided that _____ (Prime Contractor's Name) is awarded the State contract in conjunction with Solicitation No. _____, such Prime Contractor will enter into a contract with _____(Subcontractor's Name) committing to participation by the MBE firm _____ (MBE Name) with MDOT Certification Number _____ (if subcontractor previously listed is also the MBE firm, please restate name and provide MBE Certification Number) will receive for at least _____% (Total Subcontract Amount – as a percentage of total Contract value) for performing the following products/services for the Contract:

NAICS CODE	WORK ITEM, SPECIFICATION NUMBER, LINE ITEMS OR WORK CATEGORIES (IF APPLICABLE)	DESCRIPTION OF SPECIFIC PRODUCTS AND/OR SERVICES

I solemnly affirm under the penalties of perjury that the information provided in this MBE Subcontractor Project Participation Affidavit is true to the best of my knowledge, information and belief. I acknowledge that, for purposes of determining the accuracy of the information provided herein, the Procurement Officer may request additional information, including, without limitation, copies of the subcontract agreements and quotes.

PRIME CONTRACTOR	SUBCONTRACTOR (SECOND-TIER)	SUBCONTRACTOR (THIRD-TIER)
Signature of Representative:	Signature of Representative:	Signature of Representative:
_____	_____	_____
Printed Name and Title:_____	Printed Name and Title:_____	Printed Name and Title:_____
_____	_____	_____
Firm's Name: _____	Firm's Name: _____	Firm's Name: _____
Address: _____	Federal Identification Number: _____	Federal Identification Number: _____
_____	Address: _____	Address: _____
Telephone: _____	_____	_____
Date: _____	Telephone: _____	Telephone: _____
	Date: _____	Date: _____

IF MBE FIRM IS A THIRD-TIER SUBCONTRACTOR, THIS FORM MUST ALSO BE EXECUTED BY THE SECOND-TIER SUBCONTRACTOR THAT HAS THE SUBCONTRACT AGREEMENT WITH THE MBE FIRM.

Maryland Transportation Authority (MdTA)
Office of Minority Business Enterprise
2310 Broening Highway , Suite 150
Baltimore, Maryland 21224
(410) 537-6769 (410) 537-7801 – Fax

Maryland Transportation Authority

Disadvantaged/Minority Contractor Unavailability Certificate - D-005 (02-03)

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS;

It is hereby certified that:

_____

(Name of Prime Contractor)

_____

(Number) (Street) (City) (State) (Zip code)

On _____ **contacted the Disadvantage/Minority Business Enterprise:**
(Date)

_____

(Name of Sub-contractor)

_____

(Number) (Street) (City) (State) (Zip code)

Seeking to obtain a Bid for work/service in relation to project/contract number: _____

List the type of work/service requested:

_____
_____
_____

Indicate the form of Bid sought:

_____
_____

Reason given by Sub-contractor for lack of participation:

_____
_____

Certification:

To the best of my knowledge and belief, said subcontractor is unavailable or unable to participate due to the above reason. Signature of Prime Contractor:

_____

(Name) **(Date)**

The above statement is a true and accurate account of why my Firm is unable to participate. Signature of Sub-contractor:

_____

(Name) **(Date)**

GOOD FAITH EFFORTS WAIVER CHECKLIST

PRIME CONTRACTORS' GOOD FAITH EFFORTS/WAIVER CHECKLIST

Prime Contractors who put Good Faith into action will:

- ✓ Use direct solicitation, minority/women community organizations, contractors' groups, and local, state, and federal minority/women-owned business assistance offices to reach MBE's;
- ✓ Identify and assist firms that may need bonding, lines of credits, insurance, equipment, and other related issues; or assist firms that are not certified but could possibly serve on a contract and satisfy DBE/MBE goals by becoming certified;
- ✓ Identify clear sub-contractible work that will enable MBE's to compete;
- ✓ Provide the MBEs with proper information regarding the job; to include plans, specifications, and anticipated time schedule for portions of the work to be performed;
- ✓ Coordinate pre-bid meetings to inform MBEs of contracting and subcontracting opportunities;
- ✓ Advertise in general circulation, trade associations, and minority focused media concerning the subcontracting opportunities;
- ✓ Provide written notice to all certified MBEs who are certified in the work areas and have capabilities of the contract for which their participation is solicited (Contractor must allow a minimum of 10 days for the MBEs to respond to the written solicitation.); and
- ✓ Follow up on initial solicitations of interest by contacting MBEs to determine if the MBEs are interested (Contractor must detail the efforts showing names, addresses, dates, and telephone numbers of the certified MBEs contacted along with a description of information provided.)

Prime Contractors who have done the above and are submitting a waiver will:

- ✓ Document everything listed above;
- ✓ As required by regulations provide a written request for a waiver;
- ✓ Provide detailed statements of efforts to achieve the goal; to include the name, address and telephone number of all DBE/MBEs contacted, as well as the date of contact;
- ✓ Provide a list of unavailable MBEs, including a Minority Contractor Unavailability Certification Form (Form D-005) signed by an owner or officer of each unavailable DBE/MBE (If the DBE/MBE refused to sign D-005, the contractor will /should submit a statement regarding this refusal.);
- ✓ If the contractor deems a DBE/MBE to be unqualified and rejects the DBE/MBE, the contractor will provide written explanation of this decision (Contractor's reasoning must be based on a thorough investigation of MBE capabilities.);
- ✓ Provide evidence that the contractor tried to negotiate in good faith with interested MBEs;
- ✓ Demonstrate that certified MBE participation was unable to be obtained at a reasonable price or that public interest is best served by a waiver;
- ✓ Demonstrate a reasonable effort to meet the overall MBE goal with other MBE classifications if the request for a waiver is for a certain MBE classification within an overall MBE goal; and
- ✓ Provide evidence from prior projects showing that the contractor has previously successfully met or exceeded assigned MBE goals.

MDOT
MINORITY/DISADVANTAGE
BUSINESS ENTERPRISE
GOOD FAITH EFFORTS POLICY
STATEMENT

MARYLAND DEPARTMENT OF TRANSPORTATION

POLICY STATEMENT – GOOD FAITH EFFORTS
April 22, 2004

MINORITY/DISADVANTAGED BUSINESS ENTERPRISES

It is the policy of the Maryland Department of Transportation (MDOT) that businesses owned by socially and economically disadvantaged person(s) shall have the maximum feasible opportunity to participate in the performance of contracts awarded by MDOT. The MDOT requires its contractors and subcontractors not to discriminate on the basis of race, color, religion, national origin, sex or disability in the award or performance of contracts. In support of this commitment, the MDOT has adopted the following Good Faith Efforts (GFE) Policy, which shall be applicable to all contracts awarded by the MDOT or its modal administrations.

In accordance with 49 CFR, Part 26, 53 and Md. Code Ann., State Fin. & Proc. Art., 14-302, the MDOT shall award a contract only to a bidder/offeror that makes GFE to meet the Minority Business Enterprise (MBE) or Disadvantaged Business Enterprise (DBE) contract goal. A determination that a bidder/offeror has made GFE shall only be made upon a determination by the MDOT that the bidder/offeror has shown that it:

- Has obtained enough MBE or DBE participation to meet the contract goal; or
- Has taken all necessary and reasonable steps to achieve the goal, which by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient MBE/DBE participation, even if they were ultimately unsuccessful.

The MDOT will make a fair and reasonable judgment whether a bidder/offeror who did not meet the goal made adequate GFEs. This policy expands the definition of GFE to allow greater flexibility to ensure DBE/MBE participation is obtained.

At a minimum, a statement of GFE submitted by the bidder/offeror shall include:

1. The name, address, and telephone number of all DBE/MBEs contacted, as well as the date of contact;
2. A description of the information provided to the contacted DBE/MBEs regarding the plans, specifications and anticipated time schedule for portions of the work to be performed;
3. As appropriate, a detailed statement of the reasons why a DBE/MBE quotation was considered unacceptable; and
4. As appropriate, a list of DBE/MBE contractors found to be unavailable. For DBE/MBE contractors that are unavailable, the bidder/offeror shall provide a Minority Contractor Unavailability Certificate Form (Form D-005) signed by an owner or officer of the DBE/MBE. If

a DBE/MBE refuses to sign the unavailability certificate, the bidder/offeror shall submit a statement indicating as such.

To aid in the determination of whether the bidder/offeror has shown GFE, the MDOT may also look at the percentage of DBE/MBE participation obtained by other bidders/offerors on the procurement.

In addition to the requirements above, the following is a list of outreach efforts that MDOT will consider as part of the bidder/offeror's GFE to obtain DBE/MBE participation. Bidders/offerors shall be encouraged to offer innovative GFE initiatives to demonstrate GFE. MDOT administrations have the flexibility to approve such innovative initiatives. The following list is illustrative only and not intended to be exhaustive.

In a GFE determination, MDOT administrations may consider any information provided by a bidder/offeror concerning the following outreach efforts:

1. The bidder/offeror's efforts to solicit through all reasonable and available means (e.g., attendance at pre-bid meetings, advertising and/or written notices) the interest of certified DBEs/MBEs that may have the capability to perform the work of the contract. The bidder/offeror should present evidence that it solicited this interest within adequate time to allow the DBEs/MBEs to respond to the solicitation. The bidder/offeror should also provide evidence that it took appropriate steps to follow up initial solicitations.

2. The bidder/offeror's selection of the work to be performed by DBEs/MBEs in order to increase the likelihood that the DBE/MBE contract goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE/MBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.

3. The bidder/offeror's actions to provide interested DBEs/MBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

4. The bidder/offeror's negotiations with DBE/MBEs

    a. Negotiating in good faith with interested DBEs/MBEs. It is the bidder/offeror's responsibility to make a portion of the work available to DBE/MBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE/MBE subcontractors and suppliers. Evidence of such negotiation shall include the names, addresses, and telephone numbers of DBEs/MBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and information as to why additional agreements could not be reached for DBEs/MBEs to perform the work.

    b. A bidder/offeror using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE/MBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs/MBEs is not in itself sufficient reason for a bidder/offeror's failure to meet the contract DBE/MBE goal, as

long as such costs are reasonable. Also, the ability or desire of a bidder/offeror to perform the work of a contract with its own organization does not relieve that bidder/offeror of the responsibility to make GFE to meet the contract goal. This policy does not require a prime contractor to accept a higher quote from a DBE/MBE if the price is excessive or unreasonable.

5. The bidder/offeror must provide sound reasons for rejecting a DBE/MBE as unqualified. Any rejection of a DBE/MBE as unqualified shall be based on a thorough investigation of its capabilities. The DBE/MBE's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example, union vs. non-union employees status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.

6. The bidder/offeror's efforts to assist interested DBEs/MBEs in obtaining bonding, lines of credit, or insurance as required by the owner or contract.

7. The bidder/offeror's efforts, with prior written approval of the MDOT agency, to assist interested DBEs/MBEs to obtain necessary equipment, supplies, materials, or related assistance or services.

8. The bidder/offeror's effective use of the services of available minority/women community organizations; minority/women contractors' groups; local, state and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE/MBE.

9. The bidder/offeror's efforts to identify and assist firms that are not certified but could possibly service on a contract and satisfy DBE/MBE goals if the firm were to be certified by the MDOT.

10. Evidence of the bidder/offeror's record of meeting or exceeding DBE/MBE participation goals on prior projects.

This policy applies to all MDOT contracts that contain a DBE/MBE participation goal. All MDOT personnel are responsible for implementing and adhering to this policy.

MDOT
STRUCTURAL STEEL
POLICY STATEMENT

MARYLAND DEPARTMENT OF TRANSPORTATION

POLICY STATEMENT – STRUCTURAL STEEL/LARGE SUPPLY ITEMS
(Revised May 13, 2003)

MINORITY/DISADVANTAGED BUSINESS ENTERPRISES

The policy supercedes the Maryland Department of Transportation (MDOT) Structural Steel/Large Supply Items policy dated September 22, 1994.

MDOT and the Maryland Transportation Authority (MdTA) are committed to providing the maximum amount of contracting opportunities to certified Disadvantaged Business Enterprises (DBEs) and Minority Business Enterprises (MBEs). This policy statement affirms MDOT's efforts to maximize DBE/MBE participation on contracts to the greatest extent possible and applies to all contracts that contain a DBE/MBE goal.

The previous policy excluded Structural Steel as a sub-contractible item available for DBE/MBE participation since there were no structural steel manufacturers certified by MDOT. This exemption is no longer applicable since firms have now been certified under this category.

Structural steel as an item of supply may be included as a sub-contractible item for the setting of DBE/MBE goals on contracts.

In addition, structural steel as an item of supply may be used to obtain or count minority business participation credit under the DBE/MBE Program. The installation or erection of structural steel can be included as a sub-contractible item for goal setting, and as an item available for DBE/MBE participation.

The definition to be used for this policy is as follows:

> The term structural steel refers to the steel elements of the structural steel frame that are essential to the support of the design loads for buildings and bridges, as well as the steel elements in tunnel linings.

Beyond this policy on structural steel, it is vitally important for each MDOT agency and MdTA to apply the provisions of the DBE/MBE program for furnishings and installing large supply items. This policy emphasizes that it is necessary for the DBE/MBE to have a necessary and useful role in the complete business transaction, and a role that is visible outside of the context of the DBE/MBE Program. The role of the firm cannot be a superfluous step to obtain credit for a DBE/MBE goal.

In order for a prime contractor to receive full credit for a large supply item being furnished by a DBE/MBE subcontractor as a "furnish and install" item of work, the DBE/MBE regulations require that the DBE/MBE firm must:

1. Initiate and negotiate the purchase of the steel and/or any large supply item;

2. Be invoiced directly for the cost; and

3. Assume complete responsibility and liability for the item.

To further assist the MDOT agencies in making determinations in this area, the following guidelines are put forth:

1. Count expenditures with DBE/MBEs for materials or supplies toward the goals as provided in the following:

    a. If the materials or supplies are obtained from a DBE/MBE manufacturer, count 100 percent of the cost of the materials or supplies toward MBE goals.

    b. For purposes of this policy, a manufacturer is a firm that operates or maintains a factory or establishment that produces on the premises the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.

    c. If the materials or supplies are purchased from a DBE/MBE regular dealer, count 60 percent of the cost of the materials or supplies toward MBE goals.

2. For purposes of this policy and in accordance with 49CFR25.55(e) and the Program Manual, a regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are brought, kept in stock, and regularly sold or leased to the public in the usual course of business.

3. To be a regular dealer, the first must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.

A person may be a regular dealer in bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business as provided above if the person both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by a long-term lease agreement and not on an ad-hoc or contract-by-contract basis.

The Department's Contract Compliance Monitoring Procedures provide the necessary guidance on determining DBE/MBE credit on large supply items. There are several compliance questions, which need to be answered prior to a prime contractor receiving full credit for a DBE/MBE furnish and install item. These questions should include:

1. Who was responsible for setting the dollar amount allotted for supplies on the forms detailing the subcontracted work?
2. How was the cost of supplies derived? Who negotiated the price?
3. Who is responsible for taking delivery of the materials?
4. Who issues the check to pay for the materials?
5. Who assumes contractual and legal responsibility for the materials?
6. Are the materials properly accounted for in the financial records of the subcontractor and not in the records of the prime contractor?

It should be made clear at the beginning of a contract that obtaining participation through the counting of large supply items must comply with the Department's regulations. This also extends to the amount of credit given for the supply items on each contract.

The burden rests on each administration to assess each individual contract prior to the approval of the DBE/MBE package and to monitor the contract closely for compliance. We must continually work to make sure this program brings real benefits to the minority business community.

USING THE MDOT MBE/DBE DIRECTORY (EXAMPLE)

MDOT Directory of Certified MBE and/or DBE firms

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Terms of Use

The Minority Business Enterprise Directory is intended to be used as a guide for selecting certified Minority Business Enterprises to utilize on State and/or USDOT assisted contracts. Information in the directory should be verified with the Maryland Department of Transportation's Office of Minority Business Enterprise.

This web site and the information it contains are provided as a public service by the Maryland Department of Transportation (MDOT). The MDOT maintains this Minority Business Enterprise/Disadvantaged Business Enterprise (MBE/DBE) Directory for the purpose of providing a reference source of the firms certified by the MDOT as MBE/DBEs.

The MBE/DBE Directory lists certified firms in alphabetical order and also contains information on the specific products and/or services the firm is certified to provide. The MDOT makes no claims, promises, or guarantees regarding a certified MBE/DBE's competence or capability to perform. It is the responsibility of the user of the information provided here to make his/her own determination regarding the capability, competence, and/or limitations of a certified MBE/DBE firm.

The MDOT makes no claims, promises, or guarantees about the accuracy, completeness, or adequacy of the contents of this web site and expressly disclaims liability for errors and omissions in the contents of this web site. No warranty of any kind is given with respect to the contents of this web site or any links to other web sites it may contain. Reference in this web site to any specific commercial product, process, or service, or the use of any trade or business name is for the information of the public and does not constitute an endorsement or recommendation by the MDOT.

Information presented on this web site is considered public information and may be copied and/or distributed. If there is a question concerning the validity of the information provided in this directory, contact the Maryland Department of Transportation's Office of Minority Business Enterprise. You may contact the office at (410) 865-1269 or (800) 544-6056.

☐ Check this box to bypass this page on future visits and go straight to the directory.

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EXAMPLE

MDOT Directory of Certified MBE and/or DBE firms

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Using the Directory

Firms are certified per industry using the North American Industry Classification System (NAICS). Each assigned code is accompanied by a certification status designation.

Please be advised of the following definitions:

The **"MBE/DBE"** designation indicates the firm is qualified for ANY State of Maryland Contract including USDOT assisted contracts of the MDOT; these include contracts let by the Maryland State Highway Administration, the Maryland Aviation Administration, and the Maryland Transit Administration.

The **"MBE ONLY"** designation indicates the firm is qualified for State-only Funded Contracts and not USDOT assisted contracts of the MDOT.

The **"DBE ONLY"** designation indicates the firm is qualified to participate only on USDOT assisted contracts of the MDOT.

The **"GRADUATED"** designation indicates the firm has graduated in that particular NAICS Code for which it has been certified per Federal and State Regulations. The MBE remains certified but may not participate as a certified MBE/DBE on State and USDOT assisted contracts.

PLEASE NOTE: Effective October 1, 2000, the Small Business Administration established the use of the North American Industry Classification System (NAICS) Codes which replaced the Standard Industrial Classification (SIC) Codes. The Maryland Department of Transportation Office of Minority Business Enterprise has converted the SIC Codes to the NAICS Codes. Please contact the Office of Minority Business Enterprise if you have questions regarding any information on any firm listed in this Directory.

Click here for information regarding small business size standards.

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EXAMPLE

Searching the Database

The MBE/DBE directory is updated daily. There are currently **4,555** certified firms participating in the program. All search results display in a fixed format and are downloadable as an XLS file on the result page.

PRINTING TIP - Web browser print margins (left and right) must be set no greater than .25" to prevent data from being cut off when printing in portrait mode. Print margins are typically changed in the FILE - PAGE SETUP menu.

Immediate Downloads (XLS files)

Download firms certified during the past calendar year or download the entire directory.

Custom Search

Select single, multiple, or select all fields from the list below. To restart a search begin by clearing all fields. Custom searches require the selection of at least one searchable data field.

Minority Status ☐

Firm Name ☐

County (Maryland firms only) ☐

Certification Number ☐

Product or Service ☐

NAICS Code ☐

City ☐

State ☐

Street Address ☐

Zip Code ☐

Phone Number ☐

Contact Name ☐

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EXAMPLE

MDOT Directory of Certified MBE and/or DBE firms

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Custom Search

The system will search all **4,555** certified firms in the database. Separate keywords with single spaces.
Fields left empty will not be searched and will have no effect on the result.

Field Name	Search Terms [clear all fields]	Search Context
NAICS code(s): about NAICS codes	237310 - *	Find ALL of these codes
	- *	
	- *	
	- *	
	- *	

Search

EXAMPLE

EXAMPLE

MDOT Directory of Certified MBE and/or DBE firms

Custom Search

NAICS CODES like "237310"

170 certified firms were found using the above criteria. Download this result set as an XLS file.
Select a firm name to view the individual firm profile or view all profiles at once.

You can make a custom list of firms based on this result set.

Firm Details	NAICS - Product and Service Description
A & M CONCRETE CORPORATION 43760 TRADE CENTER PLACE, #160 DULLES, VA 20166 FEMALE 96-083	**237310-MBE-ONLY - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION** (SPECIFICALLY: CURB AND GUTTER, SIDEWALK, PAVERS, SLABS) **238110-MBE-ONLY - POURED CONCRETE FOUNDATION AND STRUCTURE CONTRACTORS** (SPECIFICALLY: CONCRETE WORK) **238140-MBE-ONLY - MASONRY CONTRACTORS**
A & S ASSOCIATES, INC. 8855 WALKER MILL ROAD CAPITOL HEIGHTS, MD 20743 ASIAN AMERICAN 03-469	**236210-MBE/DBE - INDUSTRIAL BUILDING CONSTRUCTION** **236220-MBE/DBE - COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION** **237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION** (SPECIFICALLY: HIGHWAY AND STREET CONSTRUCTION, EXCEPT ELEVATED HIGHWAYS) **238140-MBE/DBE - MASONRY CONTRACTORS** (SPECIFICALLY: MASONRY, STONE SETTING, AND OTHER STONE WORK) **238220-MBE/DBE - PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS**
A2Z ENVIRONMENTAL GROUP, LLC 311 S. HAVEN STREET BALTIMORE, MD 21224 FEMALE 01-080	**237110-MBE/DBE - WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION** (SPECIFICALLY: PLACEMENT OF UNDERDRAINS AND OUTLETS) **237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION** (SPECIFICALLY: PAVEMENT LINE STRIPING REMOVAL) **237990-MBE/DBE - OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION**

(SPECIFICALLY: INSTALLATION/MAINTENANCE OF EROSION CONTROL DEVISES, SILT/SUPER SILT FENCE, ORANGE CONSTRUCTION FENCE, SEDIMENT EXCAVATION/CLEANOUT/EARTH DIKES, DIVERSION/SUPER DIVERSION FENCE, TYPE B & C MATTING)

238910-MBE/DBE - SITE PREPARATION CONTRACTORS
(SPECIFICALLY: EXCVATION CONTRACTOR, GRUBBING/CLEARING; BRIDGE DEMOLITION/REMOVAL OF BRIDGE DECK, REMOVAL OF MANHOLES, TRAFFIC BARRIERS AND PIPES, INTERIOR AND EXTERIOR DEMOLITION, AND PLACEMENT OF TOPSOIL)

423320-MBE/DBE - BRICK, STONE, AND RELATED CONSTRUCTION MATERIAL MERCHANT WHOLESALERS
(SPECIFICALLY: CONCRETE CRUSHING AND/OR TIRE SHREDDING FOR RESALE)

484220-MBE/DBE - SPECIALIZED FREIGHT (EXCEPT USED GOODS) TRUCKING, LOCAL
(STONE, MILLING DEBRIS, TOP SOIL, SPECIALTY HAULING)

561730-MBE/DBE - LANDSCAPING SERVICES
(SPECIFICALLY: SEEDING/MULCHING REFERTILIZATION, LIMESTONE APPLICATION, RESEEDING/SOD, WATERING, TOPSOIL PLACEMENT)

562111-MBE/DBE - SOLID WASTE COLLECTION

562112-MBE/DBE - HAZARDOUS WASTE COLLECTION

562910-MBE/DBE - REMEDIATION SERVICES
(ENVIRONMENTAL CLEANUP, UNDERGROUND TANK TESTING AND REMOVAL)

562998-MBE/DBE - ALL OTHER MISCELLANEOUS WASTE MANAGEMENT SERVICES
(CLEANING OF EXISTING PIPES AND INLETS AND SCOPING OF DRAINS, AND Sseptic TANK CLEANING)

AB CONSTRUCTION, INC.
9450 ANNAPOLIS ROAD
LANHAM, MD 20706
ASIAN AMERICAN
04-313

236115-MBE-ONLY - NEW SINGLE-FAMILY HOUSING CONSTRUCTION (EXCEPT OPERATIVE BUILDERS)

236116-MBE-ONLY - NEW MULTIFAMILY HOUSING CONSTRUCTION (EXCEPT OPERATIVE BUILDERS)

236210-MBE-ONLY - INDUSTRIAL BUILDING CONSTRUCTION

236220-MBE-ONLY - COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

237110-MBE-ONLY - WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION

237210-MBE/DBE - LAND SUBDIVISION

237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

237990-MBE/DBE - OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION
(SPECIFICALLY: HIGHWAY, STREET, AND BRIDGE CONSTRUCTION MANAGEMENT)

238110-MBE-ONLY - POURED CONCRETE FOUNDATION AND STRUCTURE CONTRACTORS

238120-MBE-ONLY - STRUCTURAL STEEL AND PRECAST CONCRETE CONTRACTORS

238140-MBE-ONLY - MASONRY CONTRACTORS

238910-MBE-ONLY - SITE PREPARATION CONTRACTORS
(SPECIFICALLY: SOIL REMEDIATION SERVICES, DEMOLITION, CLEARING, GRADING, DRAINAGE, AND DEMOLITION)

541380-MBE-ONLY - TESTING LABORATORIES

AB CONSULTANTS, INC.
9450 ANNAPOLIS ROAD
LANHAM, MD 20706
ASIAN AMERICAN
94-165

236115-MBE/DBE, 236116-MBE/DBE, 236210-MBE/DBE, 236220-MBE/DBE, 237110-MBE/DBE, 237310-MBE/DBE, 238110-MBE/DBE, 238120-MBE/DBE, 238140-MBE/DBE, 541330-MBE-ONLY, 541370-MBE-ONLY, 541380-MBE/DBE, 561210-MBE/DBE

ENGINEERING SERVICES: CIVIL, GEO-TECHNICAL, STRUCTURAL, AND DESIGN - ENGINEERING SERVICE PROFESSIONAL; ENVIRONMENTAL ENGINEERING/REMEDIATION (PHASE I-III), SURVEYING SERVICES, MULTIFAMILY HOUSING CONSTRUCTION, MANUFACTURING AND INDUSTRIAL BUILDING CONSTRUCTION, SINGLE FAMILY HOUSING CONSTRUCTION, COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION, HIGHWAY AND STREET CONSTRUCTION, BRIDGE, WATER, SEWER, AND PIPELINE CONSTRUCTION, CONCRETE WORK, MASONRY WORK, STRUCTURAL STEEL, CONSTRUCTION MANAGEMENT, TESTING LABORATORIES

ABSOLUTELY STRAIGHT LLC
10015 OLD COLUMBIA ROAD,
SUITE B-215
COLUMBIA, MD 21046
FEMALE
07-231

237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION
(SPECIFICALLY: PARKING LOT STRIPING)

238390-MBE/DBE - OTHER BUILDING FINISHING CONTRACTORS
(SPECIFICALLY: PARKING LOT SEAL COATING AND OTHER PARKING LOT MAINTENANCE)

ACORN BUILDING SERVICES CORP.
P.O. BOX 97
SPENCERVILLE, MD 20867-0097
AFRICAN AMERICAN
05-404

237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION
(SPECIFICALLY: CONCRETE PAVING, PUBLIC SIDEWALKS, CURBS AND STREET CUTTERS, SIDEWALK, PUBLIC CONSTRUCTION)

238320-MBE/DBE - PAINTING AND WALL COVERING CONTRACTORS
(SPECIFICALLY: INTERIOR PAINTING)

238350-MBE/DBE - FINISH CARPENTRY CONTRACTORS
(SPECIFICALLY: ALUMINUM DOOR AND WINDOW RESIDENTIAL TYPE INSTALLATION, DECK CONSTRUCTION RESIDENTIAL-TYPE, DOOR, FOLDING INSTALLATION, PREFABRICATED SASH AND DOOR INSTALLATION, WINDOW AND DOOR (RESIDENTIAL TYPE) OF ANY MATERIAL PREFABRICATED, INSTALLATION, WINDOW INSTALLATION, WINDOW, METAL-FRAME RESIDENTIAL-TYPE INSTALLATION, WINDOW, WOOD, INSTALLATION)

238990-MBE/DBE - ALL OTHER SPECIALTY TRADE CONTRACTORS
(SPECIFICALLY: CLEANING BUILDING INTERIORS DURING AND IMMEDIATELY AFTER CONSTRUCTION, CLEANING NEW BUILDING INTERIORS IMMEDIATELY AFTER CONSTRUCTION; CONCRETE PATIO CONSTRUCTION, SLAB, CONCRETE PAVING RESIDENTIAL, DRIVEWAY, CURB & GUTTER RESIDENTIAL AND COMMERCIAL DRIVEWAY AND PARKING AREA, CONCRETE, CONCRETE SAWING AND DRILLING, PATIO CONSTRUCTION, PAVERS, BRICK, PATIO INSTALLATION, SIDEWALK CONSTRUCTION RESIDENTIAL AND COMMERCIAL)

561720-MBE/DBE - JANITORIAL SERVICES

(SPECIFICALLY: CARPENTRY WORK, CONSTRUCTION CLEAN UP)

☐ AFRAM, INC.
5450 REISTERSTOWN ROAD,
SUITE 101
BALTIMORE, MD 21215
AFRICAN AMERICAN
92-090

237310-MBE/DBE, 238110-MBE/DBE, 238310-MBE/DBE, 238320-MBE/DBE

CONCRETE WORK, PAVING, HIGHWAY AND STREET CONSTRUCTION, PAINTING, PLASTERING, DRYWALL, ACOUSTICAL, AND INSULATION WORK.

☐ AGGREGATE PLACEMENT CORP.
4420 HAWTHORNE ROAD
INDIAN HEAD, MD 20640
FEMALE
05-429

237310-MBE/DBE, 238110-MBE/DBE, 238990-MBE/DBE

CONCRETE WORK-SIDEWALKS; PAVING TO INCLUDE: PARKING LOTS, SLAB, CURB AND GUTTERS; CONCRETE CONSTRUCTION TO INCLUDE: WALLS, DECKS, STORM WATER MANAGEMENT, AND WASTE WATER TREATMENT PLANTS.

☐ AJO CONCRETE CONSTRUCTION, INC.
8820 HILDER AVENUE
ANNAPOLIS
JUNCTION, MD 20701
HISPANIC AMERICAN
01-148

237310-MBE/DBE - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION
(SPECIFICALLY: HIGHWAY AND ROAD MILLING GRINDING SERVICES)

238110-MBE/DBE - POURED CONCRETE FOUNDATION AND STRUCTURE CONTRACTORS
)SPECIFICALLY: SIDEWALKS, CURB, SLAB & PAD, WALLS, DRIVEWAYS, ASPHALT PATCHING & DRIVEWAYS)

327320-MBE/DBE - READY-MIX CONCRETE MANUFACTURING

423320-MBE/DBE - BRICK, STONE, AND RELATED CONSTRUCTION MATERIAL MERCHANT WHOLESALERS
(SPECIFICALLY: READY-MIX CONCRETE MANUFACTURING THE DISTRIBUTION, BRICK, STONE AND RELATED CONSTRUCTION MATERIAL MERCHANT WHOLESALERS (CONCRETE MIX))

488490-MBE/DBE - OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION
(SPECIFICALLY: SNOW CLEARING, HIGHWAYS AND BRIDGES)

EXAMPLE

FREQUENTLY ASKED COMMON TERMS AS DEFINED IN THE MDOT MBE MANUAL

Common Terms as defined in the MDOT MBE Manual

Third Tier Contracting – The process in which a prime contractor subcontracts a portion of an original contract to a subcontractor who in turn subcontracts a portion of a subcontract to a third party. This latter action is termed entering into a third tier contract.

Supplier – a regular dealer, who owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of a contract are placed, kept in stock, and regularly sold to the public in the usual course of business.
The supplier must perform a commercially useful function consistent with normal industry practices. To be a regular dealer, the firm must engage in, as its principal business, and in its own name, the purchase and the sale of the products in question.

A supplier of bulk goods (Cement, gravel, stone, and petroleum products) may qualify as a regular dealer if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment (A fleet of trucks), the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party, (such as a prime contractor) or leases such a party's trucks on an ad-hoc basis for a specific job.

Regular Dealer – A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business.
To be a regular dealer, the firm must engage in , as its principal business, and in its own name, the purchase and sale of the products in question. A regular dealer in such bulk items as cement, gravel, stone and petroleum need not keep such products in stock, if it owns or operates distribution equipment. Brokers and packagers shall not be regarded as manufacturers or regular dealers within the meaning of this section.

A regular dealer must be engaged in selling the product in question to the public. This is important in distinguishing a Regular Dealer, which has a regular trade with a variety of customers, from a firm which performs supply-like functions on an ad-hoc basis or for only one or two contractors with whom it has a special relationship.

A business that simply transfer title of a product from manufacturer to ultimate purchaser (e.g. broker or sales representative who re-invoices a product from the producing company to the recipient or contractor) or a firm that puts a product in a container for deliver would not be considered a Regular Dealer.

A supplier of bulk goods may qualify as a regular dealer if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment (e.g. a fleet of trucks), the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in the firm simply provides drivers for trucks owned or leased by another party, (e.g., a prime contractor) or leases such as party's trucks on an ad-hoc basis for a specific job.

Manufacturer – A firm that produces a product from raw materials or substantially alters a previously manufactured product by operating or maintaining a factory or establishment that produces or alters on the premises.

Manufacturer Representative – A business that transfers title of a product from a manufacturer to an ultimate purchaser (e.g., a sales representative who invoices a product from the producing company to the contractors).

Broker – An agent of a buyer who sells stocks, bonds, commodities, or services, usually on a commission basis.

Commercially Useful Function – Work performed by a DBE/MBE in a particular transaction can be counted towards goals only if the Administration determines that it involves a commercially useful function. A certified business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work of a contract and carries out its responsibility by actually performing, managing and supervising the work involved. That is, in light of industry practices and other relevant considerations, the DBE/MBE must have a necessary and useful role in the transaction of a kind for which there is a superfluous step added in an attempt to obtain credit goals.

ADDITIONAL INFORMATION FOR CONTRACTORS

Maryland Transportation Authority
Minority Business Program
ADDITIONAL INFORMATION FOR PRIME CONTRACTORS

UTILIZATION REPORTS

Monthly reports of Payments and invoices to MBEs should be sent to the MBE office by the 10th of the month. Double payee checks are prohibited except for purchase of supplies and materials.

USE OF MBE BANKS

It is the policy of MDOT to encourage its contractors to utilize certified DBE/MBE banks. The prime shall consider utilizing the services of minority owned banks. Most minority banks are full service corporations that can provide an array of financial services.

RECORDS RETENTION

In accordance with COMAR 21.06.05.03, "The contractor or subcontractor shall maintain books and records that relate to the cost or pricing data for 3 years from the date of final payment under the contract, unless a longer period is otherwise specified in the contract." MBE records must be retained for a period of three years following completion of the contract work.

SUBSTITUTION OF MBE SUBCONTRACTORS

Any proposed changes to the approved MBE Plan must be submitted in writing to the Authority for approval prior to commencement of the work. Substitution or modification of it can only be accomplished with the approval of the Authority.

ADMINSTRATIVE PROCEDURES FOR ENFORCEMENT

Whenever the Authority believes the prime or any subcontractor may not be operating in compliance with the terms of the program provision, an investigation will be conducted and if it is determined that there is non-compliance, notification will be made of the steps, which will, in the judgment of the Authority, bring the contractor into compliance. If the contractor fails or refuses to take corrective action, a final report of non-compliance will be made and sanctions from suspension of work up to referral to the Attorney General's Office for review may be made.

PROFESSIONAL ASSISTANCE

This is a referral service provided by MDOT for certified minority businesses that may need business assistance. Any of the MBEs on the project can call 1-800-544-6056 to talk to a representative.

FRAUD PROVISIONS

Contractors are advised that State Finance and Procurement Article 14-308 covers prohibited acts and penalties for offenses.

PROMPT PAYMENT TO SUBCONTRACTORS

It is the policy of the State that a contractor shall promptly pay a subcontractor any undisputed amount that a subcontractor is entitled to under the contract for construction. This payment shall be made within ten (10) days of receiving a progress payment or final payment from the State. Undisputed amounts include the retainage on a contract.

MBE REPORT OF PAYMENTS RECEIVED

By the 15th of each month the MBE should submit this document to the Authority's MBE Office. It should be submitted even if there are no payments for the month.

PROMPT PAYMENT TO SUBCONTRACTORS

It is the policy of the State that a contractor shall promptly pay a subcontractor any undisputed amount that a subcontractor is entitled to under the contract for construction. This payment shall be made within ten (10) days of receiving a progress payment or final payment from the State. Undisputed amounts include the retainage on a contract.

RECORDS RETENTION

Title 21 of the State Procurement Regulations, Subtitle 06 Contract Formation and Award, Chapter 5 Plant Inspection, Audit and Retention of Records, .03 Records Retention contains the following regulation: The contractor or subcontractor shall maintain books and records that relate to the cost or pricing data for 3 years from the date of final payment under the contract, unless a longer period is otherwise specified in the contract.

FRAUD PROVISIONS

Contractors are advised that State Finance and Procurement Article 14-308 covers prohibited acts and penalties for felony and misdemeanor offenses.

STATE OF MARYLAND GOVERNOR'S OFFICE OF MINORITY AFFAIRS (GOMA)

GOMA is the state's principal advocates for minority businesses. They provide assistance to minority business owners who are seeking state certification and state procurement opportunities. They also help minority business owners who believe they have been treated unfairly by a state agency or other entity.

This office provide referrals to agencies and other entities that have programs to assist minority business owners in getting the services they need to start, develop and grow. For more information regarding GOMA log on to www.mdminoritybusiness.com, or by calling 410-767-8232.

ENTERPRENEUIAL DEVELOPMENT INSTITUTE (EDI)

EDI helps meet the education needs of small and minority businesses in construction and related business fields. The Maryland State Highway Administration's Equal Opportunity Office provides the services of the EDI. Centered at the University of Maryland Eastern Shore (UMES), EDI classes are held on weekends. A nominal fee of $50.00 is charged for the classes and hotel accommodations. For schedule and registration information, contact the EDI Coordinator at (410) 651-6476.

MSBDFA BONDING AND CONTRACT FINANCING PROGRAM

The Maryland Small Business Development Financing Authority (MSBDFA) offers program through four programs: Contract Financing, Long Term Guaranty Program, Surety Bong Guaranty Program and Equity Participation Investment Program. They provide contract financing and surety bonding assistance to eligible firms to begin, continue and complete work on MDOT contracts. Firms bidding on MDOT contracts needing a bid, performance or payment bond or working capital can contact the office at (410) 333-4270.

PROFESSIONAL ASSISTANCE

An MBE firm certified by MDOT may request referral assistance in any area of business by calling the MBE Information Line, 1-800-544-6056 in the Office of Minority Business Enterprise.

THE STATE OF MARYLAND SMALL BUSINESS RESERVE PROGRAM

The State of Maryland Small Business Reserve Program is committed to the growth and success of small businesses. For the first time, small businesses will be able to bid for State contracts without competing with larger, more established companies.

Beginning October 1, 2004, designated agencies will be required to award a minimum of 10 percent of their units' total dollar value of goods, supplies, services, maintenance, construction, construction related, architectural service and engineering service contracts to small businesses. For more information regarding the Small Business Reserve Program log on to www.smallbusinessreserve.maryland.gov , or by calling 410-767-4270.

PROMPT PAYMENT TO SUBCONTRACTORS

A. MARYLAND DEPARTMENT OF TRANSPORTATION
POLICY STATEMENT
PROMPT PAYMENT OF SUBCONTRACTORS
DISADVANTAGED/MINORITY BUSINESS ENTERPRISES

This policy is in accordance with Maryland State Law, codified at Md. Code Ann., State Finance and Procurement Article, §15-226, and 49 CFR, Part 26, 26.29(b)l-3.

It is the policy of the State that a contractor shall promptly pay a subcontractor any undisputed amount that a subcontractor is entitled to under a State procurement contract for construction. This payment shall be made within ten (10) days of receiving a progress payment or final payment from the State. "Undisputed amount" includes the retainage on a contract.

If a contractor withholds payment, the contractor shall:

1. Notify the subcontractor, in writing within the same ten (10) day time period, stating the reasons for payment being withheld,

2. Provide a copy of the notice to the procurement officer.

If a subcontractor does not receive payment within the required time period, the subcontractor may give written notice of non-payment to the procurement officer. The notice shall include:

1. The name of the contractor, the project under which the dispute exists and the amount in dispute,

2. Provide an itemized description on which the amount is based and

3. If known, provide an explanation for any payment dispute.

Within two (2) business days of receipt of written notice from a subcontractor, a MDOT Agency Representative shall verbally contact the contractor to determine if the amount is undisputed.

If the MOOT Agency Representative determines that all or some of the amount is undisputed, the representative shall instruct the contractor to pay the subcontractor the undisputed amount within three (3) business days. The MDOT Agency Representative shall verbally inform the subcontractor the results of discussions with the contractor. If the payment is not made, the subcontractor may report the non-payment to the procurement officer. As a result, the MDOT Agency Representative shall schedule a meeting of the agency project manager, the subcontractor and the contractor, as follows:

1. The time and location shall be selected by the agency representative,

2. The meeting shall be no later than ten (10) days after receiving notice from the subcontractor,

3. The meeting purpose is to establish the reasons for non-payment,

4. The agency representative shall require the parties to provide information necessary to evaluate the dispute,

5. If the agency representative determines the contractor is delinquent, further progress payments to the contractor may be withheld until the subcontractor is paid.

If the payment to the subcontractor is not made within seven (7) days after the agency representative determines that the contractor is delinquent, the agency representative shall schedule a second meeting on the dispute as follows:

1. The time and location shall be selected by the agency representative,

2. The meeting shall be no later than five (5) days after the close of the seven (7) day period.

After this second meeting, if the agency representative determines the contractor continues to be delinquent in subcontractor payments, he/she:

1. Shall order further payments to the contractor not be processed until payment is made to and verified with the subcontractor,

2. May order work under the contract be suspended based on the contractor's failure to meet contractual obligations under the contract,

3. May require the contractor to pay a penalty to the subcontractor, not to exceed $ 100 per day, from the date that the payment was required, not to include any period that the agency representative determines that the subcontractor was not diligent in reporting non-payment to the procurement officer. The contractor or subcontractor may appeal the decision after the second meeting, noted above to the procurement officer. The contractor shall comply with the procurement officer's decision.

An act, failure to act or decision of the procurement officer or agency representative may not:

1. Affect the rights of the contracting parties under other provision of law, be used as evidence on the merits of a dispute between the agency and the contractor or the contractor and the subcontractor in any other proceeding or

2. Result in liability against or prejudice the rights of the agencies of the Maryland Department of Transportation.

A decision of a procurement officer or an agency representative designated by the procurement officer under this law is not subject to judicial review or the provision for bid protests and contract claims before the Board of Contract Appeals. This law shall be construed only prospectively and may not be applied or interpreted to have any effect on or application to any State procurement contract awarded before the effective date of this law, October 1, 1999.

MARYLAND
GOVERNOR'S OFFICE OF MINORITY AFFAIRS

GUIDE TO PROMPT PAYMENT FOR NON-CONSTRUCTION SUBCONTRACTORS

August 2008

Prompt payment requirements already exist on State-funded construction contracts. Recently, prompt payment requirements became effective on all State-funded non-construction contracts in excess of $25,000 by agencies that are members of the Governor's Cabinet.

What are my rights as a subcontractor?

Subcontractors on contracts greater than $25,000 can expect to receive payment for any undisputed amounts after the prime contractor has received a progress payment. Otherwise, a subcontractor can expect to receive written notice from the contractor as to why payment is being withheld.

What are my rights as a Minority Business Enterprise (MBE) or Small Business Reserve (SBR) subcontractor?

MBE and SBR subcontractors have the same rights as those described above. In addition, agencies must notify the Governor's Office of Minority Affairs (GOMA) of any complaint of non-payment of subcontractors with MBE or SBR status.

What are the responsibilities of the prime contractor?

The prime contractor has the responsibility to:

- Pay a subcontractor an undisputed amount to which the subcontractor is entitled; OR
- Notify the subcontractor in writing and state the reason why payment is being withheld.
- If payment is withheld, the prime contractor must provide a copy of the notice to the procurement officer.

What should I do if I am not being paid by the prime contractor?

The subcontractor must notify the procurement officer. GOMA recommends that notice be given in writing. The notice will include:

- The name of the prime contractor from which payment has not been received;
- The project under which the dispute exists;
- The amount in dispute;
- An itemized description on which the amount is based; and
- If known, an explanation for any dispute concerning the payment not received.

Who should I contact at the agency?

Subcontractors who have not received payment of any undisputed amount should contact the agency's chief procurement officer. Contact information for the Cabinet agencies' chief procurement officers can be found at the end of this document.

I've sent my written notice of non-payment to the procurement officer. What happens now?

The procurement officer, or another agency representative, must contact the prime contractor to ascertain whether the amount withheld is an undisputed amount. If it is determined that part or the entire amount withheld is undisputed, the agency representative will instruct the prime contractor to pay the subcontractor the undisputed amount. The agency representative is to communicate to the subcontractor the results of the discussions with the prime contractor.

Are there any penalties to the prime contractor for failure to pay subcontractors undisputed amounts?
Yes. The State agency that issued the contract may;

- Withhold further payments to the prime contractor until payment to the subcontractor is verified;
- Suspend all or some of the contract work;
- Pay or otherwise cause payment of the undisputed amount to the subcontractor;
- Place a payment for an undisputed amount in an interest-bearing escrow account; or
- Take other or further actions as appropriate to resolve the withheld payment.

What is an "undisputed amount"?
An "undisputed amount" means an amount owed by a contractor to a subcontractor for which there is no good faith dispute. This includes any retainage withheld, and any amount withheld because of issues arising out of an agreement or occurrence unrelated to the agreement under which the amount is withheld.
What agencies are members of the Governor's Cabinet? The 22 member agencies of the Governor's Cabinet and their chief procurement officers are:

Agency	Procurement Officer	Email
Aging	Ivey Gilliam	ilg@ooa.state.md.us
Agriculture	Joe Harrington	harrinjm@mda.state.md.us
Budget and Management	Joel Lieberknight	jleberkn@dbm.state.md.us
Business and Economic Development	Debi Chronister	dchronister@dbed.state.md.us
Disabilities	John Brennan	jbrennan@mdod.state.md.us
Education	Albert Annan	aannan@mdse.state.md.us
Environment	Mike Gallagher	mgallagher@mde.state.md.us
Executive Department	Jeremy Rosendale	jrosendale@gov.state.md.us
General Services	Michael Haifley	michael.haifley@dgs.state.md.us
Health and Mental Hygiene	Gary Goldberg	ggoldberg@dhmh.state.md.us
Housing and Community Development	Eleanor Kennedy	kennedy@mdhousing.org
Human Resources	Jane Bailey	jbailey@dhr.state.md.us
Information Technology	Sue Howells	Sue.Howells@doit.state.md.us
Juvenile Services	Marcus Filson	filsonm@djs.state.md.us
Labor, Licensing, and Regulation	Latesa Thomas	lthomas@dllr.state.md.us
Military	Nancy Fabula Hevey	heveyn@mdmildep.org
Natural Resources	Diane Russell	drussell@dnr.state.md.us
Planning	Samer Atiya	satiya@mdp.state.md.us
Public Safety and Correctional Services	Behira J. Said-Pompey	BSaid-Pompey@dpscs.state.md.us
State Police	Jonathan Beam	jbeam@mdsp.org
Transportation	Carmina Perez-Fowler	Cperez-fowler@mdot.state.md.us
Veterans Affairs	John Kearns	jkearns@mdva.state.md.us

MBE COMPLIANCE CONTRACTOR NOTIFICATION

Maryland Transportation Authority
Procurement and Statutory Program Compliance
Minority Business Enterprise Program
Contractor Notification

Prime/General contractors participating on Maryland Transportation Authority (MdTA) contracts must notify the MBE office of any changes to the approved MBE plan that was submitted. This includes all EWAs that increase or decrease the MBE goal approved for the contract. The notification must be in writing and include an updated MBE Plan to be submitted for review and the approval/denial process. The following is the minimum information that must be included:

A. Increase of the MBE over-all goal and/or sub-goal

1. MdTA Contract name and number
2. Name of Prime/General contractor
3. Reason for increase
4. MBE contractors name, address and contact information
5. Contract work items effected
6. Dollar value of the work items
7. New contract value
8. New MBE over-all goal and sub-goals

B. Decrease of the MBE over-all goal and/or sub-goal

1. MdTA Contract name and number
2. Name of Prime/General contractor
3. Reason for decrease
4. MBE contractors name, address and contact information
5. Contract work items effected
6. Dollar value of the work items
7. New contract value
8. New MBE over-all goal and sub-goals
9. Good Faith Effort (GFE) packet

Correspondence concerning the above will be sent directly to the Procurement Officer, who will ensure that the MBE Office receives the information for processing.

Two (2) complete copies of certified payrolls are to be delivered to the MdTA Project Inspector at the field office for all contractors employed on the project. One (1) complete copy is to be sent to the Commissioner of Labor & Industry. **No certified payable are to be mailed or delivered to the FSK Bridge.**

Maryland Transportation Authority Points of Contact

Dave Ferrara
Director of Construction
Maryland Transportation Authority
304 Authority Drive
Baltimore, Maryland 21222
dferrara@mdta.state.md.us

Phone: (410) 537-7882
Fax: (410) 537-7802

Beverly Hill, Director
Procurement and Statutory Program Compliance
2310 Broening Highway, Suit 150
Baltimore, Maryland 21224
bhill@mdta.state.md.us

Phone: (410) 537-1086
Fax: (410) 537-1044

All other questions concerning MBE Compliance can be directed to the following compliance team.

Orlando Price
MBE Field Compliance Officer
410-537-1052
oprice@mdta.state.md.us

Shirley Stivers
Contract Close-out Officer
410-1055
sstivers@mdta.state.md.us

MONTHLY MINORITY BUSINESS UTLIZATION REPORT FORMS FOR PRIMES AND SUBCONTRACTORS

Maryland Transportation Authority (MdTA)
Office of Minority Business Enterprise
2310 Broening Highway , Suite 150
Baltimore, Maryland 21224
(410) 537-1055 (410) 537-1044 – Fax

Maryland Transportation Authority

Disadvantaged/Minority Business Enterprise
Report of Payments Received
D-010 (02-03)

PLEASE COMPLETE AND RETURN BY *15TH OF THE MONTH* FOLLOWING THE REPORTING PERIOD, SUBMIT COPIES OF INVOICES WITH THIS DOCUMENT.

FOR THE PERIOD ENDING _____ *(MONTH/YEAR)*

SUBCONTRACTOR: _____

MDOT CERTIFICATION #: _____ **FEDERAL ID #:** _____

PRIME CONTRACTOR: _____

PROJECT NUMBER/TITLE: _____

PROJECT LOCATION: _____

SERVICES/SUPPLIES PROVIDED: _____

TOTAL SUBCONTRACT AMOUNT: _____

STATUS OF PAYMENTS:

INVOICE DATE	INVOICE NUMBER	AMOUNTOF INVOICE	AMOUNT PAID	AMOUNT DUE

DISCUSS ANY PROBLEMS YOU ARE EXPERIENCING WITH THE PRIME CONTRACTOR AND/OR THE PROJECT. _____

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

_____ _____
PRINT NAME OF COMPANY OFFICIAL **TITLE**

_____ _____
SIGNATURE DATE

TELEPHONE # _____ **EMAIL ADDRESS** _____

1/11/2008

Maryland Transportation Authority

MONTHLY MINORITY FEMALE BUSINESS UTILIZATION REPORT

(STRAIGHT STATE CONTRACTS)

Please Attach Invoices and copies (front and back) of cancelled checks

General Contractor: _____ **Contract #:** _____

Fed ID#: _____ **Contract Value:** $ _____

Amount Paid to General Contractor to Date: $ _____ **Month Ending:** _____

Subcontractor Name	Description Of Work	Total Amt of Subcontract	Invoice # / Date	Invoice Amount	Amount Paid This Invoice	Amount Paid To Date	Amount Due
			Totals	$ -	$ -	$ -	$ -

PREPARED BY: _____ **TITLE:** _____

PHONE: _____ **EMAIL :** _____

REVIEWED BY _____ **DATE:** _____

Maryland Transportation Authority

BAY BRIDGE FACILITIES

FUEL TANK REPLACEMENTS

ANNE ARUNDEL COUNTY

CONTRACT NO.: BB-2042-000-002

Addendum No.2 March 1, 2010 BB-2042-000-002

INDEX OF SHEETS

10/5/09

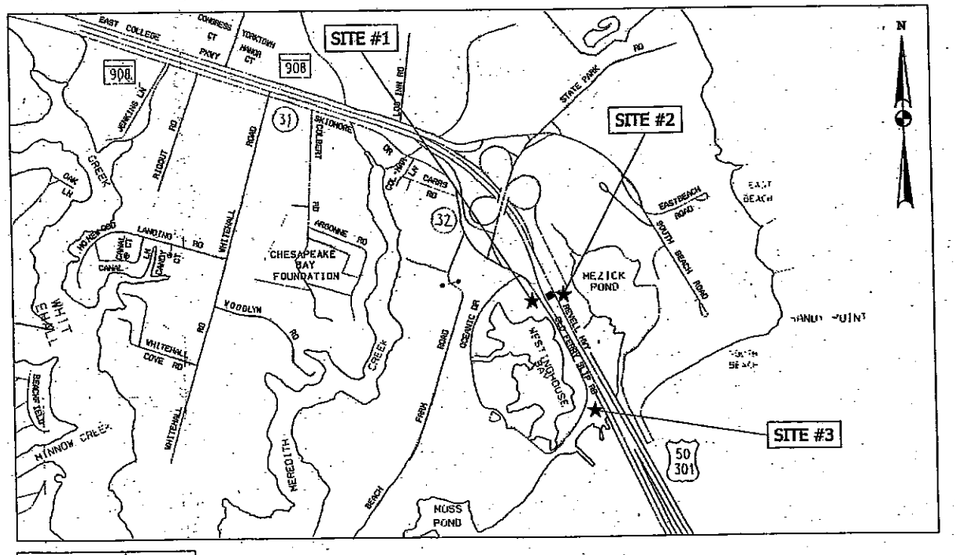
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10959, EXPIRATION DATE: 9/25/2010.

Gannett Fleming / Dewberry

GANNETT FLEMING, INC. / DEWBERRY
A JOINT VENTURE

3106 LORD BALTIMORE DR. SUITE 110
BALTIMORE, MD 21244
OFFICE: (410) 265-6500
FAX: (410) 265-6575



HORIZONTAL DATUM	NAD 83/91
VERTICAL DATUM	NAVD 88

LOCATION MAP
SCALE : 1"=1000'

STANDARDS AND SPECIFICATIONS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION'S "STANDARDS FOR HIGHWAY AND INCIDENTAL CONSTRUCTION, THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, JULY 2008" AND ALL REVISIONS THERETO, THE LATEST FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ALONG WITH THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND, AS SPECIFIED IN THE CONTRACT DOCUMENTS.

COMPLETENESS OF DOCUMENTS

THE MARYLAND TRANSPORTATION AUTHORITY SHALL ONLY BE RESPONSIBLE FOR THE COMPLETENESS OF DOCUMENTS OBTAINED DIRECTLY FROM THE MARYLAND TRANSPORTATION AUTHORITY'S CASHIER'S OFFICE. FAILURE TO ATTACH ADDENDA MAY CAUSE THE BID TO BE IRREGULAR.

ADA COMPLIANCE

THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES IN COMPLIANCE WITH THE STATE AND FEDERAL LEGISLATION

RIGHT OF WAY

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT OF WAY PLATS.

UTILITIES

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID LOCATIONS. NOTIFICATION TO "MISS UTILITY", 1.800.257.7777, SHALL BE GIVEN 48 HOURS (TWO FULL WORKING DAYS) IN ADVANCE OF WORKING IN THE AREA OF THE SPECIFIC AFFECTED UTILITY. THE NOTIFICATION TO "MISS UTILITY" IS REQUIRED WHENEVER ANY EXCAVATING OR SIMILAR WORK IS TO BE PERFORMED.

MDTA NOTIFICATION TO MR. GARY MCGUIRE AT 410-537-6650, MS. CHERYL MCKINLAY AT 410.537.7809, AND/OR MR. BRUCE SMITH AT 410.537.6651 AND MR. MAURICE SAXON AT 410.537.6651 SHALL BE GIVEN 72 HOURS IN ADVANCE OF WORKING IN THE AREA OF THE SPECIFIC AFFECTED UTILITY.

GENERAL NOTES

WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE STATE HIGHWAY ADMINISTRATION TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS, THE FEDERAL HIGHWAY 2003 MUTCD AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, SPECIFICALLY THE 2006 MARYLAND SUPPLEMENT, THESE PLANS AND OTHER CONTRACT DOCUMENTS.

THE CONTRACTOR SHOULD COORDINATE ALL WORK WITH THE BRIDGE ADMINISTRATOR. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE BRIDGE ADMINISTRATOR AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCING WORK ACTIVITIES.

THE CONTRACTOR SHOULD CONDUCT ALL WORK ACTIVITIES SO AS TO MAINTAIN ACCESS TO THE BAY BRIDGE FACILITIES FOR BAY BRIDGE PERSONNEL AT ALL TIMES.

ALL WORK AREAS SHOULD BE ENCLOSED WITH TEMPORARY CONSTRUCTION FENCING OR BARRIER TO PREVENT HUMAN OR VEHICULAR INTRUSION.

ENVIRONMENTAL INFORMATION

WDE # 09-SF-0447

SEDIMENT AND EROSION CONTROL REGULATIONS WILL BE STRICTLY ENFORCED DURING CONSTRUCTION.

MARYLAND TRANSPORTATION AUTHORITY		
	RECOMMENDED FOR APPROVAL DIRECTOR, ENGINEERING DIVISION	12-10-09 DATE
	APPROVED CHIEF ENGINEER, OFFICE OF ENGINEERING AND CONSTRUCTION	12/8/09 DATE
	APPROVED EXECUTIVE SECRETARY	12/14/09 DATE

OCTOBER 3, 2009 DRAWING NO. G-1 SHEET 1 OF 23

GENERAL NOTES

DESIGN CRITERIA

1. THE DESIGN OF THE CANOPY STRUCTURE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF INTERNATIONAL BUILDING CODE (IBC).

2. DESIGN LIVE LOAD: 30 PSF

3. WIND LOADING ON MAIN WIND FORCE - RESISTING SYSTEM:
   A. BASIC WIND SPEED: 110 MPH
   B. IMPORTANCE FACTOR: 1.15
   C. WIND EXPOSURE: C

4. SEISMIC LOADING IS IN ACCORDANCE WITH ASCE 7.

5. SNOW LOADING IS IN ACCORDANCE WITH IBC.

MISCELLANEOUS

1. THE CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS NOT AS SHOWN. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.

2. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR UPON WRITTEN APPROVAL FROM THE ENGINEER.

3. ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF ENGINEER LICENSED TO PRACTICE IN THE STATE OF MARYLAND. NO SHOP DRAWINGS SHALL BE USED WHICH ARE MARKED "REVISE AND RESUBMIT", "REJECT", "RETURNED FOR CORRECTION", OR WORDS TO THAT EFFECT. SEE SECTION TC 4.01 OF THE SPECIAL PROVISIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SHORING AND/OR BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL LOADING, INCLUDING BUT NOT LIMITED TO GRAVITY, WIND, EARTHQUAKE, EARTH, AND CONSTRUCTION LOADING.

FOUNDATIONS

1. THE FOUNDATION DESIGN SHALL BE BASED ON A SOIL BEARING CAPACITY NOT TO EXCEED 2,000 PSF.

2. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF THE FUEL ISLAND. ALL WASTE MATERIAL AND DEBRIS FROM THE EXCAVATIONS SHALL BE THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH STATE REGULATIONS.

3. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES.

4. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL SHORING, BRACING, AND DEWATERING AS NECESSARY TO PROTECT ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES DURING ENTIRE CONSTRUCTION PERIOD.

6. DO NOT REMOVE SHORING IF IT WILL CAUSE SETTLEMENT OR DAMAGE TO EXISTING OR NEW STRUCTURES, PAVEMENT, AND/OR UTILITIES.

7. ASSUMED SOIL BEARING VALUES SHALL BE CONFIRMED AT THE SUBGRADE OF EACH FOOTING BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR. UPON COMPLETION OF THE FOOTING VERIFICATION, THE REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL CERTIFY BY SEAL AND SIGNATURE THAT THE SOIL BEARING VALUES ENCOUNTERED ARE CAPABLE OF ADEQUATELY SUPPORTING THE CANOPY STRUCTURE.

CONCRETE

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE HAVING A COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 PSI. ALL CONCRETE SHALL CONTAIN A WATER-REDUCING ADMIXTURE. CALCIUM CHLORIDE IS PROHIBITED. PROVIDE A MINIMUM OF 598 POUNDS OF TYPE 1 PORTLAND CEMENT PER CUBIC YARD. MIXES SHALL COMPLY WITH THE FOLLOWING WATER CEMENT RATIOS: 0.55 MAXIMUM (NON AIR-ENTRAINED), 0.47 MAXIMUM (AIR-ENTRAINED). PROVIDE AIR ENTRAINING ADMIXTURES WHERE CONCRETE IS PERMANENTLY EXPOSED TO THE WEATHER. FLY ASH IN CONCRETE MIXES IN NOT PERMITTED.

3. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAS BEEN APPROVED BY THE ENGINEER. CONCRETE USED IN THE STRUCTURE SHALL CONFORM TO THE APPROVED DESIGN MIX. THE USE OF ANY ADDITIVES NOT IN THE APPROVED DESIGN MIX IS PROHIBITED.

4. REPRESENTATIVE TEST CYLINDERS SHALL BE TAKEN FROM THE CONCRETE PLACED EACH DAY.

5. REINFORCING STEEL SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60 AND SHALL BE EPOXY COATED. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.

6. CONCRETE COVER OVER REINFORCING UNLESS OTHERWISE SHOWN, SHALL BE 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND AND 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER. ALL REBAR LAPS AND SPLICES SHALL BE IN ACCORDANCE WITH ACI STANDARDS.

7. NO CONCRETE SHALL BE PLACED IN WATER.

STRUCTURAL STEEL

1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN.

2. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
   A. STRUCTURAL STEEL ANGLES, CHANNELS, BARS, AND PLATES: A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI.
   B. SQUARE AND RECTANGULAR TUBING: A500, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 46 KSI.
   C. STRUCTURAL STEEL W SHAPES: ASTM A572, GRADE 50 HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.

3. BOLTS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
   A. HIGH STRENGTH BOLTS: A325.
   B. ANCHOR BOLTS: A307.
   C. STANDARD FASTENERS: A307.

4. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D.1.1, STRUCTURAL WELDING CODE - STEEL. ALL WELDING ELECTRODES SHALL CONFORM TO THE E-70 SERIES OF THE AWS.

5. ALL HIGH STRENGTH BOLTS SHALL BE INSTALLED WITH FULL PRETENSION UNLESS SPECIFICALLY NOTED AS "SNUG TIGHT" ON THE DRAWINGS. TIGHTEN BOLTS BY THE TURN-OF-NUT METHOD, BY USING A DIRECT TENSION INDICATOR, OR BY CALIBRATED WRENCH.

6. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON THE CONTRACT DRAWINGS OR WITH WRITTEN APPROVAL OF ENGINEER.

7. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED.

8. CONNECTIONS NOT SHOWN SHALL BE DESIGNED IN ACCORDANCE WITH AISC "MANUAL FOR STEEL CONSTRUCTION", NINTH EDITION. SHEAR CONNECTIONS SHALL BE DESIGNED FOR AISC FOR REACTION EQUAL TO ½ THE ALLOWANCE UNIFORM LOAD ON BEAM PER PART 2 OF MANUAL (MINIMUM OF 6 KIPS), UNLESS NOTED OTHERWISE.

9. GROUT UNDER STEEL PLATES SHALL BE NON-SHRINK AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI, UNLESS NOTED OTHERWISE.

METAL DECKING

1. METAL DECK WORK SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATION FOR STEEL ROOF DECK.

2. METAL DECKING SHALL BE MADE OF STEEL CONFORMING TO ASTM A446 FOR GALVANIZED DECK, HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI.

3. ROOF DECKING SHALL HAVE A PROTECTIVE ZINC COATING CONFORMING TO ASTM A525, G-90.

4. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOS OVER 3 SPANS MINIMUM, AND SHALL BEAR AT LEAST 2 INCHES ON STEEL SUPPORTS. ONE OR 2 SPAN CONDITIONS ARE PROHIBITED.

5. DECK SHALL BE FASTENED TO SUPPORTING STEEL AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

6. WELDING SHALL NOT BE USED AS METHOD OF ATTACHMENT.

PAINTING

1. GENERAL: SHOP PAINT ALL STRUCTURAL STEEL MEMBERS UNLESS OTHERWISE SPECIFIED.

2. DO NOT PAINT SURFACES THAT ARE TO BE WELDED OR HIGH-STRENGTH BOLTED WITH SLIP CRITICAL TYPE CONNECTIONS.

3. DO NOT PAINT SURFACES THAT ARE TO BE IN CONTACT WITH METAL DECK OR CONCRETE.

4. APPLY 2 COATS OF SHOP PAINT TO ALL SURFACES INCLUDING THOSE THAT ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM FIRST.

5. SURFACE PREPARATION: AFTER INSPECTION AND BEFORE SHIPPING, CLEAN STEELWORK THAT IS TO BE PAINTED, REMOVED LOOSE RUST, LOOSE MILL SCALE AND SPATTER, SLAG, OR FLUX DEPOSITS. CLEAN STEEL IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) AS FOLLOWS:
   A. SP-1, "SOLVENT CLEANING"
   B. SP-3, "POWER TOOL CLEANING"

6. PAINTING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY STRUCTURAL STEEL PRIMER PAINT IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 912.02.01 AND AT A RATE TO PROVIDE A DRY FILM THICKNESS OF NOT LESS THAN 3.0 MILS. USE PAINTING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES. PAINT SYSTEM SHALL CONFORM TO 912.05 "SYSTEM B". (2)

7. THE CONTRACTOR SHALL VERIFY THAT SHOP PRIMER IS COMPATIBLE WITH FINISH COATS OF PAINT.

8. SUBMIT THE MANUFACTURER'S PRODUCT DATA OF SHOP PRIMER AND FINISH COATS, INCLUDING COLOR SAMPLES, FOR THE ENGINEER'S REVIEW AND APPROVAL.

9. APPLY TWO COATS OF APPROVED INTERMEDIATE AND FINISH COATS TO ALL SURFACES AS DIRECTED BY THE ENGINEER.

10. THE CONTRACTOR SHALL SUBMIT COLOR SAMPLES ALONG WITH SHOP DRAWINGS FOR SELECTION BY THE ENGINEER.

EXISTING CONSTRUCTION

1. ALL DIMENSIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARENTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AFFECTED AND PRIOR TO START OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER.

TEST & INSPECTIONS

1. AN APPROVED TESTING AND INSPECTION AGENCY SHALL INSPECT, MONITOR, AND/OR TEST THE FOLLOWING IN ACCORDANCE WITH THE SPECIFICATIONS:
   A. STRUCTURAL STEEL SHOP FABRICATION AND ERECTION INCLUDING WELDING, BOLTING, AND CONNECTION DETAILS.
   B. CONCRETE REINFORCING STEEL AND CONCRETE MATERIALS.
   C. FOUNDATION SUBGRADE, FILL, AND BACKFILL PLACEMENT.

THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR FOUNDATIONS. COORDINATE EXCAVATION WORK TO AVOID DAMAGE OR DISTURBANCE TO UTILITIES.

NO OPEN FLAMES, BURNING, OR FIELD WELDING SHALL BE PERMITTED IN VICINITY OF EXISTING FUEL PUMPS OR TANKS.

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Maryland Transportation Authority
Engineering Division

ADDENDA & REVISIONS

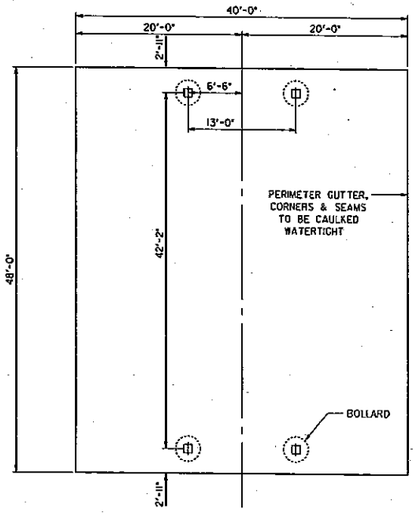
NO.	DESCRIPTION	BY	DATE
2	CLARIFIED PAINT SPEC.		03/10

MARYLAND TRANSPORTATION AUTHORITY
BAY BRIDGE FACILITIES
FUEL TANK REPLACEMENTS
CANOPY COVER - GENERAL NOTES

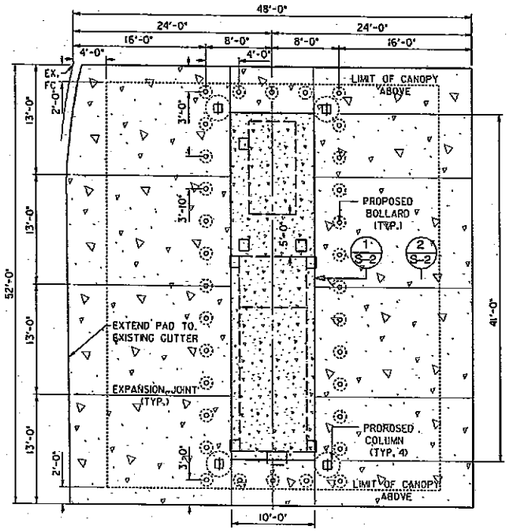
CONTRACT NO. BB-2042-000-002
DRAWING NO. S-1
SHEET NO. 14 OF 23

DESIGNED BY LRB | DRAWN BY RLI | CHECKED BY RHB
CONST. REVIEW BY | DATE MARCH 1, 2010 | SCALE

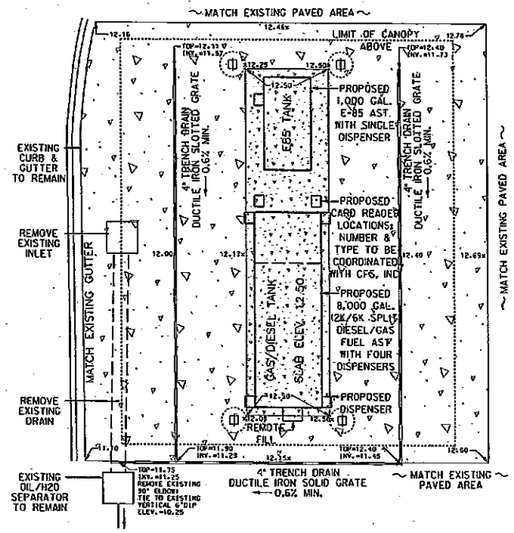
FILE: O:\AMS\BOS\DOCS\25-Bay Bridge Fuel Tank (Prof Design)\CAD\CMP\GST-DOCS_BB.dgn
PLOTTED: Monday, March 01, 2010 AT 10:21 AM



CANOPY ROOF PLAN



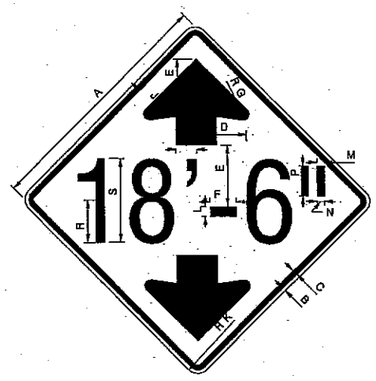
CANOPY CONCRETE PAD PLAN

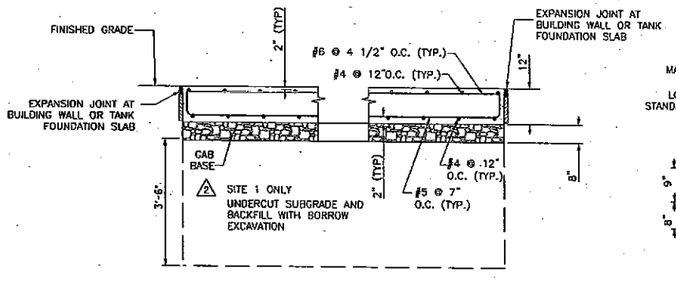


DETAILED FUEL STATION GRADING & DRAINAGE PLAN

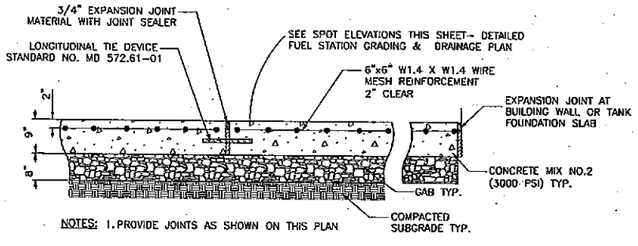
PRE-ENGINEERED CANOPY

1. THE ENTIRE CANOPY STRUCTURE INCLUDING ITS FOUNDATIONS, FINISHING, AND ELECTRICAL WORK SHALL BE DESIGNED AND FURNISHED BY THE CANOPY MANUFACTURER.
2. THE CANOPY MANUFACTURER SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE IN SIMILAR CANOPY DESIGN AND CONSTRUCTION.
3. THE CONTRACTOR SHALL SUBMIT THE CANOPY MANUFACTURER'S QUALIFICATIONS PRIOR TO HIFINAL SELECTION FOR THE ENGINEER'S REVIEW AND APPROVAL.
4. THE CONTRACTOR SHALL SUBMIT NINE (9) SETS OF CANOPY SHOP DRAWINGS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF MARYLAND FOR ENGINEER'S REVIEW AND APPROVAL.
5. THE SHOP DRAWINGS SHALL ALSO INCLUDE THE DESIGN CALCULATIONS OF ALL CANOPY COMPONENTS PREPARED AND SIGNED BY THE ENGINEER LICENSED IN THE STATE OF MARYLAND.
6. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING CONCERNING ANY DEVIATIONS AND/OR OMISSIONS FROM THE APPROVED SHOP DRAWINGS.
7. NO CONSTRUCTION WORK SHALL COMMENCE UNTIL THE PRE-ENGINEERED CANOPY SHOP DRAWINGS ARE REVIEWED AND APPROVED BY THE ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN THE BUILDING PERMIT FOR THE ENTIRE CANOPY CONSTRUCTION, IF NEEDED.



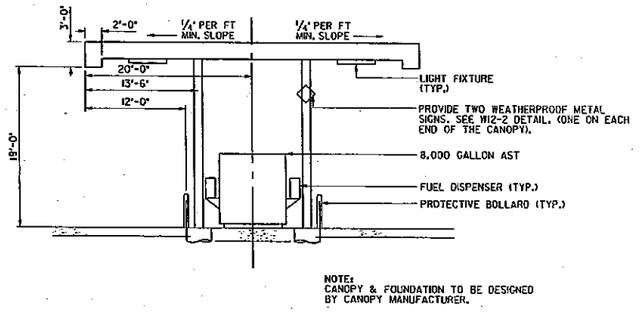


1 FUEL TANK FOUNDATION SLAB SECTION
NOT TO SCALE



NOTES: 1. PROVIDE JOINTS AS SHOWN ON THIS PLAN

2 CONCRETE APRON
NOT TO SCALE



NOTE:
CANOPY & FOUNDATION TO BE DESIGNED BY CANOPY MANUFACTURER.

3 TYPICAL CANOPY SECTION

SIGN DIMENSIONS	
LABEL	DIMENSION
A	18"
B	0.375"
C	.625"
D	3.438"
E	4"
F	2.125"
G	.5"
H	1.5"
J	1"
K	1.5"
L	0.938"
M	.625"
N	0.25"
P	1.375"
Q	2"
R	3"
S	6"

SHA DETAIL W12-2

8' 0 8' 16'
SCALE: 1/8" = 1'-0"

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Maryland Transportation Authority
Engineering Division

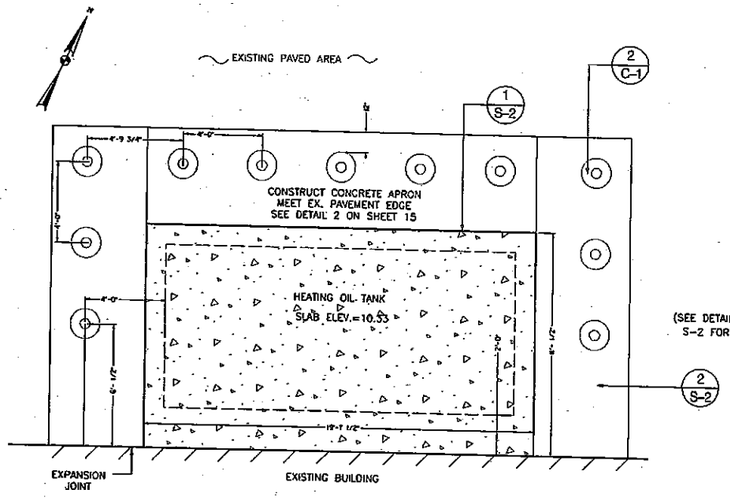
ADDENDA & REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	REVISED DETAIL 1		03/10

FILE: O:\80508900\8001503-Bay Bridge Fuel Tank Final Design\CAD\Civil\ST-D0002_s8.dgn
PLOTTED: Monday, March 01, 2010 AT 11:30 AM

MARYLAND TRANSPORTATION AUTHORITY
BAY BRIDGE FACILITIES
FUEL TANK REPLACEMENTS
FUEL ISLAND AND CANOPY DETAILS

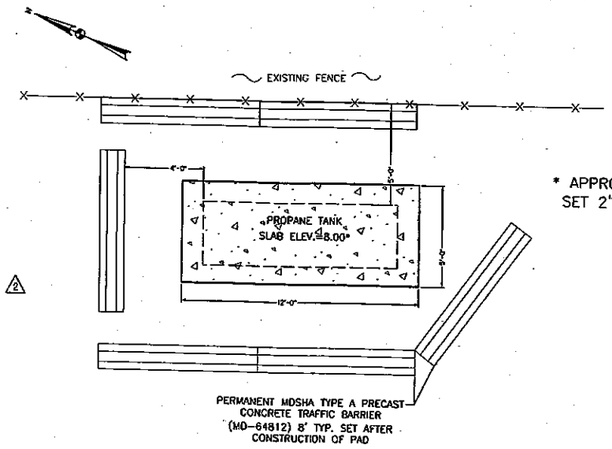
DESIGNED BY LRB	DRAWN BY RLI	CHECKED BY RHB	
CONST. REVIEW BY	DATE MARCH 1, 2010	SCALE	

CONTRACT NO. BB-2042-000-002
DRAWING NO. S-2
SHEET NO. 15 OF 23



HEATING OIL TANK CONCRETE PAD PLAN- SITE #2

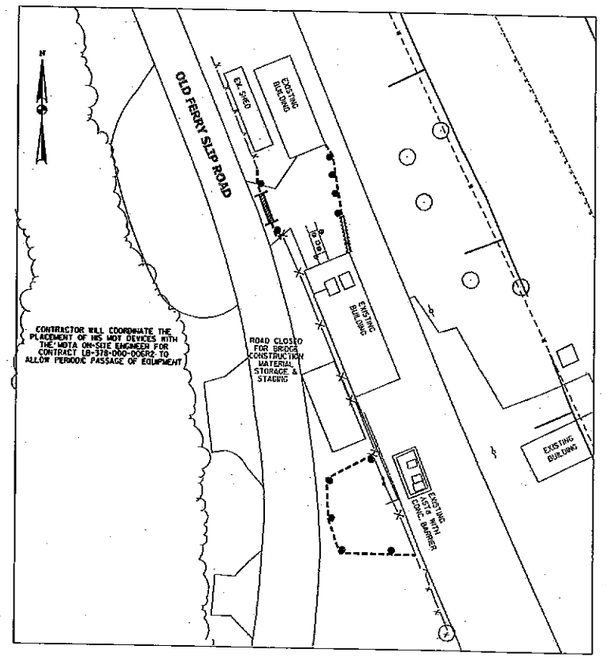
NTS



* APPROXIMATE ELEVATION SET 2" ABOVE EXISTING GROUND

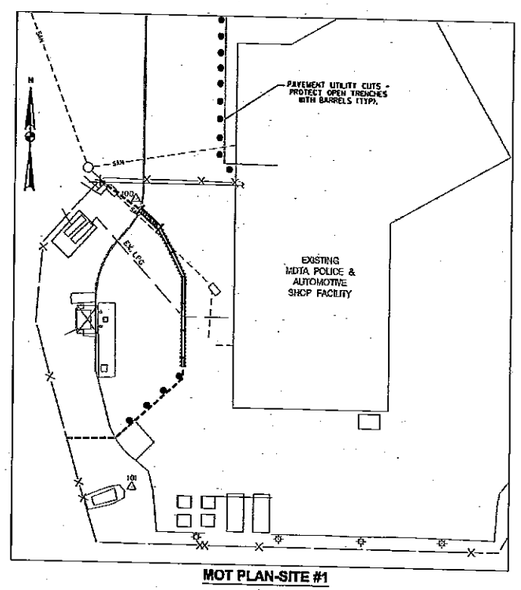
PROPANE TANK CONCRETE PAD PLAN- SITE #3

NTS



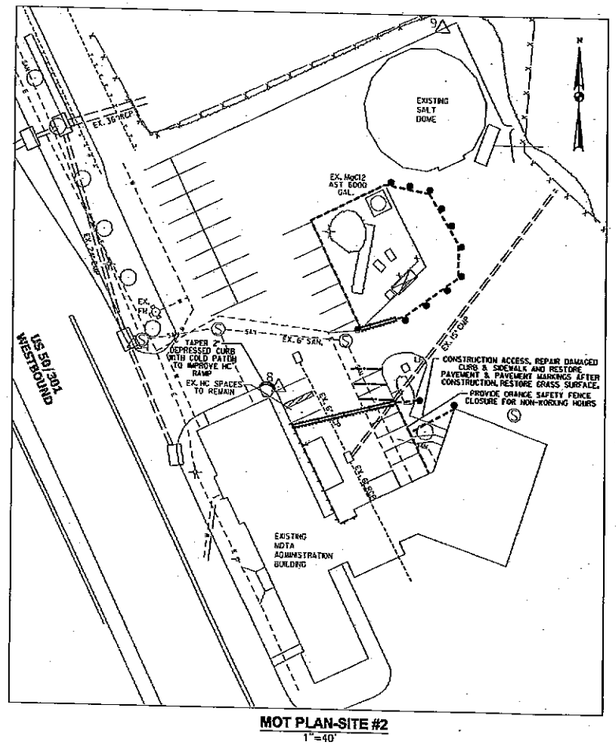
MOT PLAN-SITE #3

1"=40'



MOT PLAN-SITE #1

1"=40'

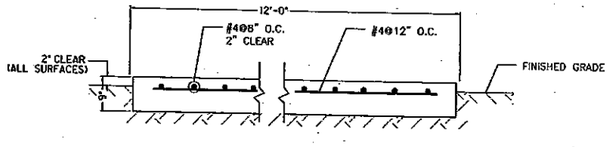


MOT PLAN-SITE #2

1"=40'

LEGEND

- ORANGE SAFETY FENCE
- TEMPORARY TYPE III BARRICADE
- TEMPORARY STRIPING (COVER EX. STRIPES WITH TEMPORARY BLACK TAPE)
- TEMPORARY CONCRETE TRAFFIC BARRIER
- PLYWOOD PROTECTION FOR GLASS & PEDESTRIAN WALK
- DRUM



PROPANE TANK CONCRETE PAD SECTION

NTS

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Maryland Transportation Authority

Engineering Division

ADDENDA & REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	REVISED NOTE-SITE #2 PAD PLAN		03/10

MARYLAND TRANSPORTATION AUTHORITY
BAY BRIDGE FACILITIES
FUEL TANK REPLACEMENTS
ABOVEGROUND STORAGE TANKS DETAILS & MOT PLANS

CONTRACT NO. BB-2042-000-002

DRAWING NO. S-3

DESIGNED BY LRB | DRAWN BY RLI | CHECKED BY RHB

CONST. REVIEW BY | DATE MARCH 1, 2010 | SCALE

SHEET NO. 16 OF 23

FILE: G:\4003800\Working\85-Bay Bridge Fuel Tank Pad Design\CAD\Civil\pST-D003_S5.dgn
PLOTTED: Monday, March 01, 2010 AT 11:38 AM

EXISTING PANEL SCHEDULE 'EPR2'

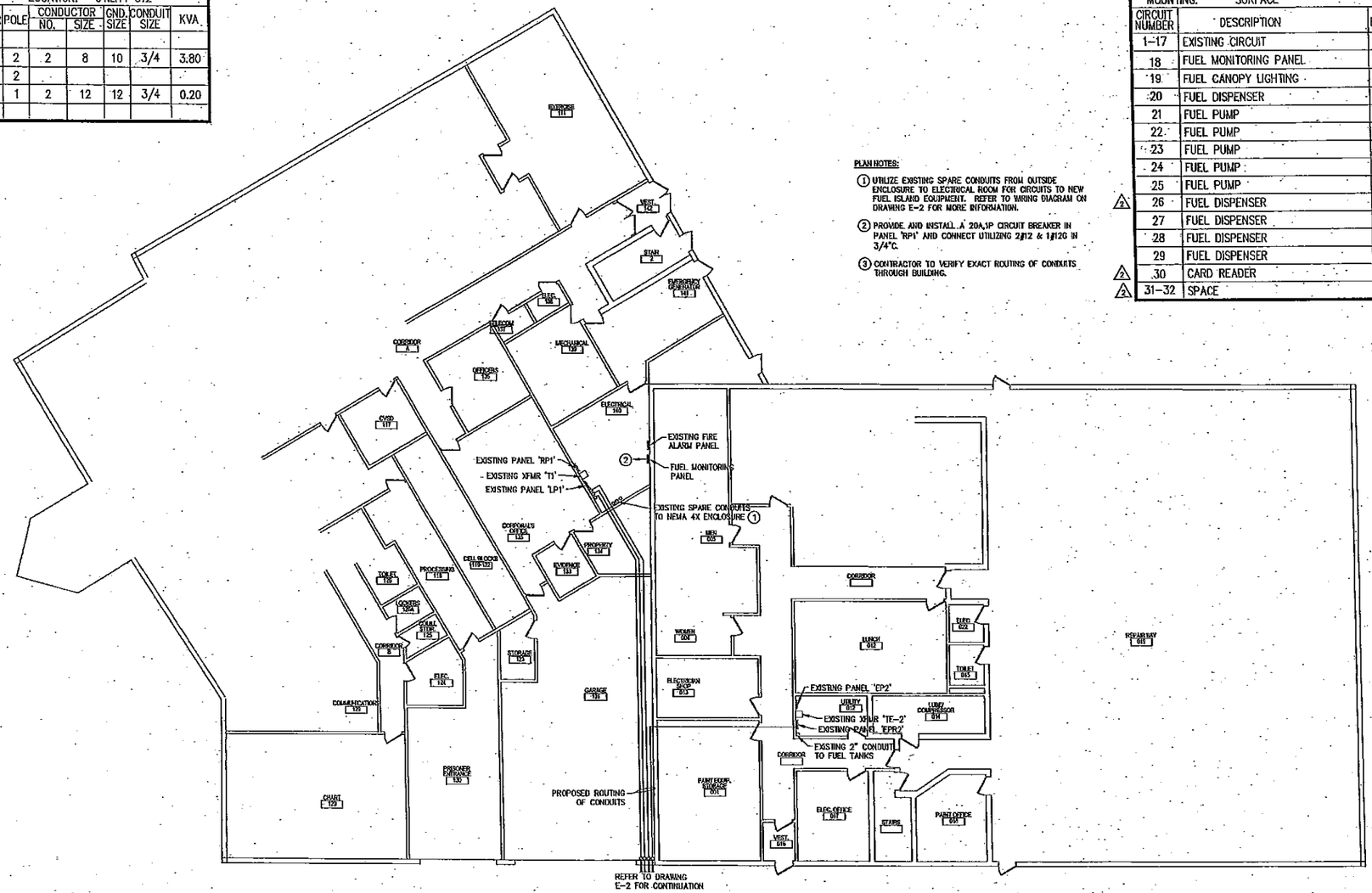
PANEL DESIGNATION: 'EPR2'				MIN. A.I.C.: –				
VOLTAGE: 208Y/120V				3 PHASE, 4 WIRE				
MAIN BUS: 100A				MAIN BREAKER: M.L.O.				
MOUNTING: SURFACE				LOCATION: UTILITY 012				
CIRCUIT NUMBER	DESCRIPTION	BREAKER	POLE	CONDUCTOR NO.	CONDUCTOR SIZE	GND. SIZE	CONDUIT SIZE	KVA
1–23	EXISTING CIRCUIT							
24	MOTORIZED GATE	30A	2	2	8	10	3/4	3.80
25	SPARE	30A	2					
26	GATE CARD READER	20A	1	2	12	12	3/4	0.20
27–28	SPACE							

EXISTING PANEL SCHEDULE 'RP1'

PANEL DESIGNATION: 'RP1'				MIN. A.I.C.: –				
VOLTAGE: 208Y/120V				3 PHASE, 4 WIRE				
MAIN BUS: 225A				MAIN BREAKER: M.L.O.				
MOUNTING: SURFACE				LOCATION: ELECTRICAL 140				
CIRCUIT NUMBER	DESCRIPTION	BREAKER	POLE	CONDUCTOR NO.	CONDUCTOR SIZE	GND. SIZE	CONDUIT SIZE	KVA
1–17	EXISTING CIRCUIT							
18	FUEL MONITORING PANEL	20A	1	2	12	12	3/4	0.20
19	FUEL CANOPY LIGHTING	20A	2	2	10	10	3/4	1.00
20	FUEL DISPENSER	20A	1	2	10	10	*	0.80
21	FUEL PUMP	20A	2	2	10	10	*	1.60
22	FUEL PUMP	20A	2	2	10	10	*	1.60
23	FUEL PUMP	20A	2	2	10	10	*	1.60
24	FUEL PUMP	20A	2	2	10	10	*	1.60
25	FUEL PUMP	20A	2	2	10	10	*	1.60
2 26	FUEL DISPENSER	20A	1	2	10	10	*	0.80
27	FUEL DISPENSER	20A	1	2	10	10	*	0.80
28	FUEL DISPENSER	20A	1	2	10	10	*	0.80
29	FUEL DISPENSER	20A	1	2	10	10	*	0.80
2 30	CARD READER	20A	1	2	10	10	*	0.20
2 31–32	SPACE							

PLAN NOTES:

1. UTILIZE EXISTING SPARE CONDUITS FROM OUTSIDE ENCLOSURE TO ELECTRICAL ROOM FOR CIRCUITS TO NEW FUEL ISLAND EQUIPMENT. REFER TO WIRING DIAGRAM ON DRAWING E-2 FOR MORE INFORMATION.
2. PROVIDE AND INSTALL A 20A,1P CIRCUIT BREAKER IN PANEL 'RP1' AND CONNECT UTILIZING 2#12 & 1#12G IN 3/4"C.
3. CONTRACTOR TO VERIFY EXACT ROUTING OF CONDUITS THROUGH BUILDING.



SITE 1 - POLICE & AUTOMOBILE SHOP FACILITY - POWER 3

GRAPHIC SCALE
3/32"=1'-0"
6' 4' 0 8' 16'

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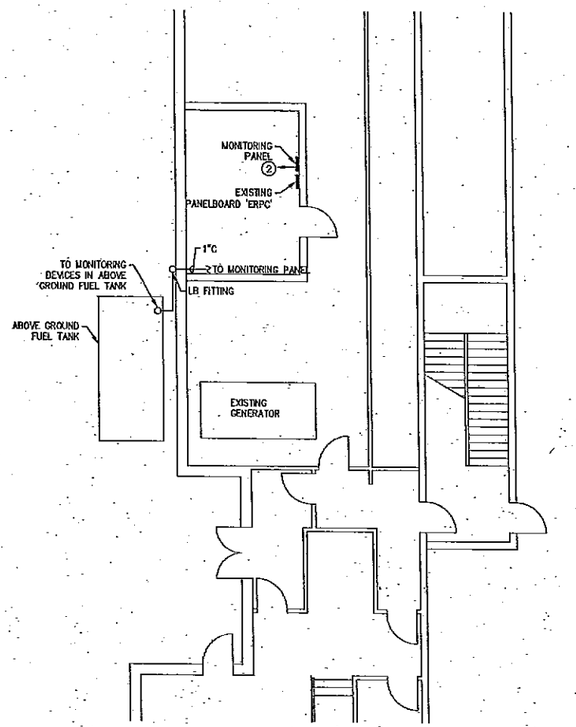
Maryland Transportation Authority
Engineering Division

ADDENDA & REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	REVISED EXISTING PANEL SCHEDULE 'RP1'		03/10
	CIRCUIT #'S		

MARYLAND TRANSPORTATION AUTHORITY
BAY BRIDGE FACILITIES
FUEL TANK REPLACEMENTS
SITE 1-POLICE & AUTMOMOBILE SHOP FACILITY - POWER

DESIGNED BY MJF	DRAWN BY SAB	CHECKED BY JAB	
CONST. REVIEW BY	DATE MARCH 1, 2010	SCALE AS NOTED	

CONTRACT NO. BB-2042-000-002
DRAWING NO. E-3
SHEET NO. 22 OF 23



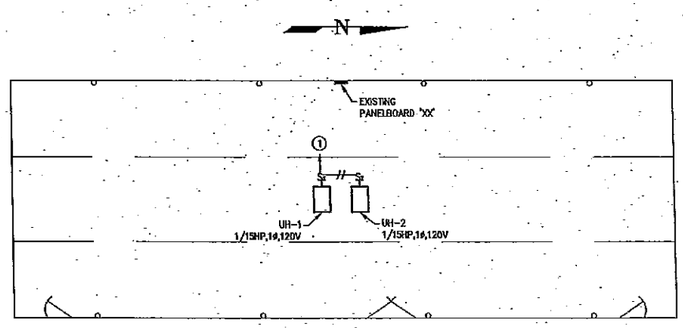
SITE 2 - ADMINISTRATION BUILDING - POWER

EXISTING PANEL SCHEDULE 'ERPC'								
PANEL DESIGNATION: 'ERPC'				MIN. A.I.C.: –				
VOLTAGE: 208Y/120V				3 PHASE, 4 WIRE				
MAIN BUS: 100A				MAIN BREAKER: M.L.O.				
MOUNTING: SURFACE				LOCATION: XX				
CIRCUIT NUMBER	DESCRIPTION	BREAKER	POLE	CONDUCTOR NO.	CONDUCTOR SIZE	GND. SIZE	CONDUIT SIZE	KVA
1–27	EXISTING CIRCUIT							
28	MONITORING PANEL.	20A	1	2	12	12	3/4	
29–30	SPACE							

PLAN NOTES:

1. PROVIDE AND INSTALL A 20A,1P CIRCUIT BREAKER IN THE EXISTING PANELBOARD AND CONNECT UTILIZING 2#12+1#12G IN 3/4"C. PANEL IS A CUTLER HAMMER, 200A PANELBOARD.
2. PROVIDE AND INSTALL A 20A,1P CIRCUIT BREAKER IN THE EXISTING PANELBOARD 'ERPC' AND CONNECT UTILIZING 2#12+1#12G IN 3/4"C. PANEL IS A SQUARE 'D' 120/208V, 3# PANELBOARD.

GRAPHIC SCALE
1/8"=1'-0"
8' 4' 0 8' 16'



SITE 3 - STORAGE BUILDING POWER

EXISTING PANEL SCHEDULE 'XX'								
PANEL DESIGNATION: 'XX'				MIN. A.I.C.: –				
VOLTAGE: 208Y/120V				3 PHASE, 4 WIRE				
MAIN BUS: 200A				MAIN BREAKER: M.L.O.				
MOUNTING: SURFACE				LOCATION: STORAGE BLDG.				
CIRCUIT NUMBER	DESCRIPTION	BREAKER	POLE	CONDUCTOR NO.	CONDUCTOR SIZE	GND. SIZE	CONDUIT SIZE	KVA
1–19	EXISTING CIRCUIT							
20	UH-1, UH-2	20A	1	2	12	12	3/4	
21–30	SPACE							

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Maryland Transportation Authority
Engineering Division

ADDENDA & REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	INCREASED FONT SIZE		03/10

MARYLAND TRANSPORTATION AUTHORITY
BAY BRIDGE FACILITIES
FUEL TANK REPLACEMENTS

PARTIAL FLOOR PLANS OF SITE 2/3 - POWER

DESIGNED BY MJF | DRAWN BY SAB | CHECKED BY JAB
CONST. REVIEW BY | DATE MARCH 1, 2010 | SCALE AS NOTED

CONTRACT NO. BB-2042-000-002
DRAWING NO. E-4
SHEET NO. 23 OF 23