

Maryland
Transportation
Authority

Martin O'Malley
Governor

Anthony Brown
Lt. Governor

Beverly K Swain-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.
Michael J. Whitson
Walter E. Woodford, Jr., P.E.

Ronald L. Freeland
Executive Secretary

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August 13, 2010

TO ALL PURCHASERS OF CONTRACT DOCUMENTS:

RE: Contract No. MA-679-000-002
Upgrade and Replace Existing Signing – Northern Region

ADDENDUM NO. 7

Ladies and Gentlemen:

It is important that you acknowledge receipt of this Addendum No. 7 on the referenced contract regardless if you will be bidding or not bidding.

Very truly yours,

Linda D. McGill, CPPB
Chief of Engineering & Construction Procurement

LM/mdj

Enclosures

Contract No. **MA-679-000-002**

This will acknowledge receipt of the attached Addendum No. 7.

NAME OF COMPANY

SIGNATURE

DATE

THIS SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE SHALL BE RETURNED TO THIS OFFICE VIA **FAX AT 410-537-7801 or 7803**, 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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Michael J. Whitson
Walter E. Woodford, Jr., P.E.

Ronald L. Freeland
Executive Secretary

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Acting Chief Engineer

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300 Authority Drive
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authority.com

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August 13, 2010

TO ALL PURCHASERS OF CONTRACT DOCUMENTS

ADDENDUM NO. 7

RE: Contract No. MA-679-000-002
Upgrade and Replace Existing Signing – Northern Region

To Whom It May Concern:

- I. The bids are due at 12 noon on September 9, 2010.
- II. A 2nd pre-bid meeting is scheduled for 8:30 am on August 19, 2010. See Page 1 of the Invitation for Bids book under this Addendum for additional information.
- III. The following changes have been made to the Invitation for Bids book:
 - a. Delete Pages ii, iii, 1, 18, 93A, 120, 128, 135, 136, 139, 140, and 163-173 and replace them with the attached pages numbered the same with Addendum No. 7 notation.
 - b. Insert new Page xx attached herein, with Addendum No. 7 notation.
- IV. The following changes have been made to the contract plans:
 - a. Delete Sheets 1, 52, 95, 119, 120, 125, 162 and 169 and replace them with the attached sheets numbered the same with Addendum No. 7 notation.
- V. Sign Erector Wage Rate: Delete Addendum No. 2, Page 93A. Correcting the April 7, 2010 Pre-Bid Meeting minutes; delete the statement indicating that a sign erector wage rate would be provided by Addendum and insert the following response: "No sign erector wage rate will be provided. It has been determined that work to erect signs on this project can be performed within classifications of laborer, carpenter and power equipment operator".

Very truly yours,

Linda D. McGill, CPPB
Chief of Engineering & Construction Procurement

LDM/RYM/upm/mdj

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

THE ATTACHED SIGNED ADDENDUM ACKNOWLEDGEMENT PAGE SHALL BE RETURNED TO THIS OFFICE VIA FAX AT 410-537-7801 or 7803, ATTENTION: MAGGIE JOHNSON, PRIOR TO THE BID OPENING DATE.



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Maryland
Transportation
Authority

SPECIAL PROVISIONS
Contract No. MA 679-000-002

NOTICE TO ALL HOLDERS OF THIS CONTRACT DOCUMENT

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REQUIREMENTS

On December 16, 2009 a final rule adopting the 2009 Edition of the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD) was published in the Federal Register. States must adopt the 2009 National MUTCD, or a State Manual having similar standards, as their legal State standard for traffic control devices within two years.

Notwithstanding any reference to the standards presented in the 2006 MdMUTCD, all traffic control devices (temporary or permanent) utilized on Administration projects shall be in conformance with the requirements provided in the 2009 Edition of the FHWA's MUTCD for Streets and Highways.



CONTRACT NO.: **MA 679-000-002**

TITLE: Upgrade and Replace Existing Signing – Northern Region

FACILITY: John F. Kennedy Memorial Highway and Thomas J. Hatem Memorial Bridge

LOCATION: Baltimore County, Maryland; Harford County, Maryland; Cecil County; Maryland and New Castle County, Delaware

ADVERTISED: March 23, 2010

PRE-BID MEETING: **9:30 am on April 7, 2010** in the Conference Room at the Maryland Transportation Authority, 303 Authority Drive, 1st Floor, Administration Building, Baltimore, MD 21222

A 2nd pre-bid meeting at **8:30 am on August 19, 2010** in the Conference Room Maryland Transportation Authority, 300 Authority Drive, 2nd Floor, Engineering Building, Baltimore, MD 21222

PROJECT CONTACT: Project Manager: Ms. Roxane Y. Mukai at (410) 537-7848
Contract Administration: Ms. Maggie Johnson (410) 537-7807

BIDS DUE: **12:00 Noon on September 9, 2010**, in the Bid Box on the 1st floor of the Maryland Transportation Authority, Engineering Building, 300 Authority Drive, Baltimore, MD 21222

CLASSIFICATION: Class F (\$ 5,000,001 – \$ 10,000,000)

CONTRACT TIME: Five Hundred and Forty (540) Calendar Days

LIQUIDATED DAMAGES: **\$ 800.00 per Calendar Day**

MINIMUM MBE GOALS: Overall 25 %
Women owned businesses 0%
African-American owned businesses 0%

BID DOCUMENTS: \$60.00 - Bid documents can be purchased between 7:30am and 3:30pm, Mondays, Wednesdays, Thursdays and Fridays and between 10:00am and 4:00pm on Tuesdays at the Ticket Office located at the Francis Scott Key Bridge, Maryland Transportation Authority, Administration Building, 303 Authority Drive, Baltimore, MD 21222.

TERMS AND CONDITIONS
TC SECTION 4
CONTROL OF WORK

TC-4.02 FAILURE TO MAINTAIN PROJECT.

98 **ADD**: At the end of the sub-section.

- (c) Deduct an appropriate amount from the Contractor's next progress estimate for each day or portion thereof that Maintenance of Traffic deficiencies exist, and will continue until the deficiencies are satisfactorily corrected and accepted by the Engineer. Any portion of a day will be assessed a full day deduction. The deduction will be equal to a prorata share of the lump sum price bid for Maintenance of Traffic or an amount prorated from the Engineer's estimate, whichever is more. The amount prorated will be the per diem amount established by using the working days (based upon calendar dates when required) divided into the total value of the bid item or the Engineer's estimate of that item, whichever is more.

The above noted deduction will be assessed on the next progress estimate if:

The Contractor does not take action to correct the deficiencies and properly assume the responsibilities of maintaining the project (as determined by the Engineer) within four hours of receiving a notice to comply with the required maintenance provisions.

The deduction will be equal to the daily prorated share of the lump sum price bid for Maintenance of Traffic or \$500.00 per day, whichever is more for each day or portion thereof that the deficiencies exist, and will continue until the deficiencies and proper assumption of the required maintenance provisions are satisfactorily corrected and accepted by the Engineer. The amount of monies deducted will be a permanent deduction and are not recoverable. Upon satisfactory correction of the deficiencies, payment of the Maintenance of Traffic lump sum item will resume.



Maryland
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SPECIAL PROVISIONS
Contract No. MA 679-000-002

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BID/PROPOSAL FORM

Contract No. MA 679-000-002

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. **MA 679-000-002** for **Upgrade and Replace Existing Signing – Northern Region** as defined in the Special Provisions on which proposal will be received until twelve (12) Noon on the **9th of September, 2010** in the Bid Box of the Maryland Transportation Authority, Division of Procurement and Statutory Program Compliance, Building 300, 1st floor, located at the Francis Scott Key Bridge, Baltimore, MD. The work will be performed in **Baltimore, Harford and Cecil Counties in Maryland and New Castle County in Delaware.**

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 directly adjacent to the Bid Box.

To the Maryland Transportation Authority, Baltimore, MD:

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		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8001	16 AT	EACH OF INSTALL TYPE I DYNAMIC MESSAGE SIGNS WITH INTEGRATED CONTROLLER, LED 3 LINES/ 21 CHARACTERS PER LINE, LINE MATRIX, 15-30 DEGREE VIEWING ANGLE, 18" CHARACTERS, WALK-IN ACCESS PER EACH				
8002	293 AT	SQUARE FEET OF REMOVE EXISTING BRIDGE MOUNTED SIGNS AND SUPPORTS PER SQUARE FOOT				
8003	110 AT	EACH OF ICELS 150 WATT NARROW DISTRIBUTION LAMP AND LUMINAIRE PER EACH				
8004	17 AT	EACH OF ICELS 150 WATT WIDE DISTRIBUTION LAMP AND LUMINAIRE PER EACH				
8005	262 AT	LINEAR FEET OF GALVANIZED STEEL BEAMS (W6X16) PER LINEAR FOOT				

CONTRACT NO. MA 679-000-002

Addendum No. 7; August 12, 2010

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		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8036	449 AT	EACH OF SQUARE TUBULAR STEEL ANCHOR BASES PER EACH				
8037	7,236 AT	SQUARE FEET OF SHEET ALUMINUM SIGNS PER SQUARE FOOT				
8038	17,900 AT	SQUARE FEET OF EXTRUDED ALUMINUM SIGNS PER SQUARE FOOT				
8039	10,239 AT	SQUARE FEET OF REMOVE SIGNS FROM EXISTING OVERHEAD STRUCTURE PER SQUARE FOOT				
8040	12,103 AT	SQUARE FEET OF REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS PER SQUARE FOOT				

CONTRACT NO. MA 679-000-002

Addendum No. 7; August 12, 2010

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		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8041	19 AT _____	EACH OF REMOVE EXISTING CANTILEVER STRUCTURE AND SIGNS AND SUPPORTS PER EACH				
8042	1 AT _____	EACH OF REMOVE EXISTING OVERHEAD SIGN STRUCTURE AND SIGNS AND SUPPORTS PER EACH				
8043	7 AT _____	EACH OF REMOVE EXISTING OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED PER EACH				
8044	1,659 AT _____	LINEAR FEET OF OVERHEAD SIGN/LUMINAIRE "1" SUPPORT PER LINEAR FOOT				
8045	752 AT _____	LINEAR FEET OF ADD STIFFNER ANGLE TO SIGNS PER LINEAR FOOT				

CONTRACT NO. MA 679-000-002

Addendum No. 7; August 12, 2010

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		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8056	480 AT	LINEAR FEET OF DUCT CABLE - 4 CONDUCTOR, NO 4 AWG, 600 V PER LINEAR FOOT				
8057	10825 AT	LINEAR FEET OF DUCT CABLE - 4 CONDUCTOR, NO 2 AWG, 600 V PER LINEAR FOOT				
8058	275 AT	LINEAR FEET OF CABLE - 1 CONDUCTOR, NO 4 AWG, TYPE USE, 600V PER LINEAR FOOT				
8059	2475 AT	LINEAR FEET OF CABLE - 1 CONDUCTOR, NO 2 AWG, TYPE USE, 600V PER LINEAR FOOT				
8060	9,600 AT	LINEAR FEET OF CABLE - 1 CONDUCTOR, NO 10 AWG, TYPE THWN/THHN, 600V PER LINEAR FOOT				

CONTRACT NO. MA 679-000-002

Addendum No. 7; August 12, 2010

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		AMOUNTS	
			DOLLARS	CTS.	DOLLARS	CTS.
8061	16300 AT	LINEAR FEET OF BARE COPPER GROUND WIRE, NO. 4 A.W.G. PER LINEAR FOOT				
8062	1,130 AT	LINEAR FEET OF 1 INCH DIAMETER RIGID STEEL CONDUIT, SCHEDULE-40 FOR SIGN STRUCTURE PER LINEAR FOOT				
8063	1,874 AT	LINEAR FEET OF 1 INCH DIAMETER FLEXIBLE STEEL CONDUIT PER LINEAR FOOT				
8064	55 AT	EACH OF CONNECTOR KIT - TYPE I PER EACH				
8065	16 AT	EACH OF CONNECTOR KIT - TYPE II PER EACH				

CONTRACT NO. MA 679-000-002
Addendum No. 7; August 12, 2010



BID/PROPOSAL AFFIDAVIT

CONTRACT NUMBER: _____

A. AUTHORIZED REPRESENTATIVE

I HEREBY AFFIRM THAT:

I am the (title) _____ and the duly authorized
representative of (business) _____
and that I possess the legal authority to make this Affidavit on behalf of myself and the vendor
for which I am acting.

B. CERTIFICATION REGARDING COMMERCIAL NONDISCRIMINATION

The undersigned bidder hereby certifies and agrees that the following information is correct:

In preparing its bid on this project, the bidder has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not engaged in "discrimination" as defined in § 19-103 of the State Finance and Procurement Article of the Annotated Code of Maryland. "Discrimination" means any disadvantage, difference, distinction, or preference in the solicitation, selection, hiring, or commercial treatment of a vendor, subcontractor, or commercial customer on the basis of race, color, religion, ancestry, or national origin, sex, age, marital status, sexual orientation, or on the basis of disability or any otherwise unlawful use of characteristics regarding the vendor's, supplier's or commercial customer's employees or owners. "Discrimination" also includes retaliating against any person or other entity for reporting any incident of "discrimination". Without limiting any other provision of the solicitation on this project, it is understood that, if the certification is false, such false certification constitutes grounds for the State to reject the bid submitted by the bidder on this project, and terminate any contract awarded based on the bid. As part of its bid or proposal, the bidder herewith submits a list of all instances within the past 4 years where there has been a final adjudicated determination in a legal or administrative proceeding in the state of Maryland that the bidder discriminated against subcontractors, vendors, suppliers, or commercial customers, and a description of the status or resolution of that determination, including any remedial action taken. Bidder agrees to comply in all respects with the State's Commercial Nondiscrimination Policy as described under Title 19 of the State Finance and Procurement Article of the Annotated Code of Maryland.



B-1. CERTIFICATION REGARDING MINORITY BUSINESS ENTERPRISES

The undersigned bidder hereby certifies and agrees that it has fully complied with the State Minority Business Enterprise Law, State Finance and Procurement Article, §14-308(a)(2), Annotated Code of Maryland, which provides that, except as otherwise provided by law, a contractor may not identify a certified minority business enterprise in a bid or proposal and:

- (1) Fail to request, receive, or otherwise obtain authorization from the certified minority business enterprise to identify the certified minority proposal;
- (2) Fail to notify the certified minority business enterprise before execution of the contract of its inclusion in the bid or proposal;
- (3) Fail to use the certified minority business enterprise in the performance of the contract; or
- (4) Pay the certified minority business enterprise solely for the use of its name in the bid or proposal.

Without limiting any other provision of the solicitation on this project, it is understood that if the certification is false, such false certification constitutes grounds for the State to reject the bid submitted by the bidder on this project, and terminate any contract awarded based on the bid.

C. AFFIRMATION REGARDING BRIBERY CONVICTIONS

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the above business (as is defined in Section 16-101(b) of the State Finance and Procurement Article of the Annotated Code of Maryland), or any of its officers, directors, partners, controlling stockholders, or any of its employees directly involved in the business's contracting activities including obtaining or performing contracts with public bodies has been convicted of, or has had probation before judgment imposed pursuant to Criminal Procedure Article, §6-220, Annotated Code of Maryland, or has pleaded nolo contendere to a charge of, bribery, attempted bribery, or conspiracy to bribe in violation of Maryland law, or of the law of any other state or federal law, except as follows (indicate the reasons why the affirmation cannot be given and list any conviction, plea, or imposition of probation before judgment with the date, court, official or administrative body, the sentence or disposition, the name(s) of person(s) involved, and their current positions and responsibilities with the business):

D. AFFIRMATION REGARDING OTHER CONVICTIONS
I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the above business, or any of its officers, directors, partners, controlling stockholders, or any of its employees directly involved in the business's contracting activities including obtaining or performing contracts with public bodies, has:

- (1) Been convicted under state or federal statute of:
 - (a) A criminal offense incident to obtaining, attempting to obtain, or performing a public or private contract; or
 - (b) Fraud, embezzlement, theft, forgery, falsification or destruction of records or receiving stolen property;
- (2) Been convicted of any criminal violation of a state or federal antitrust statute;
- (3) Been convicted under the provisions of Title 18 of the United States Code for violation of the Racketeer Influenced and Corrupt Organization Act, 18 U.S.C. §1961 et seq., or the Mail Fraud Act, 18 U.S.C. §1341 et seq., for acts in connection with the submission of bids or proposals for a public or private contract;
- (4) Been convicted of a violation of the State Minority Business Enterprise Law, §14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland;
- (5) Been convicted of a violation of §11-205.1 of the State Finance and Procurement Article of the Annotated Code of Maryland;
- (6) Been convicted of conspiracy to commit any act or omission that would constitute grounds for conviction or liability under any law or statute described in subsections (1)—(5) above;
- (7) Been found civilly liable under a state or federal antitrust statute for acts or omissions in connection with the submission of bids or proposals for a public or private contract;
- (8) Been found in a final adjudicated decision to have violated the Commercial Nondiscrimination Policy under Title 19 of the State Finance and Procurement Article of the Annotated Code of Maryland with regard to a public or private contract; or
- (9) Admitted in writing or under oath, during the course of an official investigation or other proceedings, acts or omissions that would constitute grounds for conviction or liability under any law or statute described in §§B and C and subsections D(1)—(8) above, except as follows (indicate reasons why the affirmations cannot be given, and list any conviction, plea, or imposition of probation before judgment with the date, court, official



or administrative body, the sentence or disposition, the name(s) of the person(s) involved and their current positions and responsibilities with the business, and the status of any debarment:

E. AFFIRMATION REGARDING DEBARMENT

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the above business, or any of its officers, directors, partners, controlling stockholders, or any of its employees directly involved in the business's contracting activities, including obtaining or performing contracts with public bodies, has ever been suspended or debarred (including being issued a limited denial of participation) by any public entity, except as follows (list each debarment or suspension providing the dates of the suspension or debarment, the name of the public entity and the status of the proceedings, the name(s) of the person(s) involved and their current positions and responsibilities with the business, the grounds of the debarment or suspension, and the details of each person's involvement in any activity that formed the grounds of the debarment or suspension).

F. AFFIRMATION REGARDING DEBARMENT OF RELATED ENTITIES

I FURTHER AFFIRM THAT:

- (1) The business was not established and it does not operate in a manner designed to evade the application of or defeat the purpose of debarment pursuant to Sections 16-101, et seq., of the State Finance and Procurement Article of the Annotated Code of Maryland; and
- (2) The business is not a successor, assignee, subsidiary, or affiliate of a suspended or debarred business, except as follows (you must indicate the reasons why the affirmations cannot be given without qualification):

G. SUB-CONTRACT AFFIRMATION

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the above business, has knowingly entered into a contract with a public body under which a person debarred or suspended under Title 16 of the State Finance and Procurement Article of the Annotated Code of Maryland will provide, directly or indirectly, supplies, services, architectural services, construction related services, leases of real property, or construction.

H. AFFIRMATION REGARDING COLLUSION

I FURTHER AFFIRM THAT:

Neither I, nor to the best of my knowledge, information, and belief, the above business has:

- (1) Agreed, conspired, connived, or colluded to produce a deceptive show of competition in the compilation of the accompanying bid or offer that is being submitted;
- (2) In any manner, directly or indirectly, entered into any agreement of any kind to fix the bid price or price proposal of the bidder or offeror or of any competitor, or otherwise taken any action in restraint of free competitive bidding in connection with the contract for which the accompanying bid or offer is submitted.

I. FINANCIAL DISCLOSURE AFFIRMATION

I FURTHER AFFIRM THAT:

I am aware of, and the above business will comply with, the provisions of Section 13-221 of the State Finance and Procurement Article of the Annotated Code of Maryland, which require that every business that enters into contracts, leases, or other agreements with the State of Maryland or its agencies during a calendar year under which the business is to receive in the aggregate \$100,000 or more shall, within 30 days of the time when the aggregate value of the contracts, leases, or other agreements reaches \$100,000, file with the Secretary of State of Maryland certain specified information to include disclosure of beneficial ownership of the business.



J. POLITICAL CONTRIBUTION DISCLOSURE AFFIRMATION

I FURTHER AFFIRM THAT:

I am aware of, and the above business will comply with, Election Law Article, §§14-101—14-108, Annotated Code of Maryland, which requires that every person that enters into contracts, leases, or other agreements with the State of Maryland, including its agencies or a political subdivision of the State, during a calendar year in which the person receives in the aggregate \$100,000 or more shall file with the State Board of Elections a statement disclosing contributions in excess of \$500 made during the reporting period to a candidate for elective office in any primary or general election.

K. DRUG AND ALCOHOL FREE WORKPLACE

(Applicable to all contracts unless the contract is for a law enforcement agency and the agency head or the agency head's designee has determined that application of COMAR 21.11.08 and this certification would be inappropriate in connection with the law enforcement agency's undercover operations.)

I CERTIFY THAT:

- (1) Terms defined in COMAR 21.11.08 shall have the same meanings when used in this certification.
- (2) By submission of its bid or offer, the business, if other than an individual, certifies and agrees that, with respect to its employees to be employed under a contract resulting from this solicitation, the business shall:
 - (a) Maintain a workplace free of drug and alcohol abuse during the term of the contract;
 - (b) Publish a statement notifying its employees that the unlawful manufacture, distribution, dispensing, possession, or use of drugs, and the abuse of drugs or alcohol is prohibited in the business' workplace and specifying the actions that will be taken against employees for violation of these prohibitions;
 - (c) Prohibit its employees from working under the influence of drugs or alcohol;
 - (d) Not hire or assign to work on the contract anyone whom the business knows, or in the exercise of due diligence should know, currently abuses drugs or alcohol and is not actively engaged in a bona fide drug or alcohol abuse assistance or rehabilitation program;
 - (e) Promptly inform the appropriate law enforcement agency of every drug-related crime that occurs in its workplace if the business has observed the violation or otherwise has reliable information that a violation has occurred;
 - (f) Establish drug and alcohol abuse awareness programs to inform its employees about:
 - (i) The dangers of drug and alcohol abuse in the workplace;

- (ii) The business' policy of maintaining a drug and alcohol free workplace;
 - (iii) Any available drug and alcohol counseling, rehabilitation, and employee assistance programs; and
 - (iv) The penalties that may be imposed upon employees who abuse drugs and alcohol in the workplace;
- (g) Provide all employees engaged in the performance of the contract with a copy of the statement required by §K(2)(b), above;
- (h) Notify its employees in the statement required by §K(2)(b), above, that as a condition of continued employment on the contract, the employee shall:
- (i) Abide by the terms of the statement; and
 - (ii) Notify the employer of any criminal drug or alcohol abuse conviction for an offense occurring in the workplace not later than 5 days after a conviction;
 - (iii) Notify the procurement officer within 10 days after receiving notice under §K(2)(h)(ii), above, or otherwise receiving actual notice of a conviction;
- (j) Within 30 days after receiving notice under §K(2)(h)(ii), above, or otherwise receiving actual notice of a conviction, impose either of the following sanctions or remedial measures on any employee who is convicted of a drug or alcohol abuse offense occurring in the workplace:
- (i) Take appropriate personnel action against an employee, up to and including termination; or
 - (ii) Require an employee to satisfactorily participate in a bona fide drug or alcohol abuse assistance or rehabilitation program; and
- (k) Make a good faith effort to maintain a drug and alcohol free workplace through implementation of §K(2)(a)—(j), above.
- (3) If the business is an individual, the individual shall certify and agree as set forth in §K(4), below, that the individual shall not engage in the unlawful manufacture, distribution, dispensing, possession, or use of drugs or the abuse of drugs or alcohol in the performance of the contract.
- (4) I acknowledge and agree that:

- (a) The award of the contract is conditional upon compliance with COMAR 21.11.08 and this certification;
- (b) The violation of the provisions of COMAR 21.11.08 or this certification shall be cause to suspend payments under, or terminate the contract for default under COMAR 21.07.01.11 or 21.07.03.15, as applicable; and
- (c) The violation of the provisions of COMAR 21.11.08 or this certification in connection with the contract may, in the exercise of the discretion of the Board of Public Works, result in suspension and debarment of the business under COMAR 21.08.03.

L. CERTIFICATION OF CORPORATION REGISTRATION AND TAX PAYMENT

I FURTHER AFFIRM THAT:

- (1) The business named above is a (domestic ___) (foreign ___) corporation registered in accordance with the Corporations and Associations Article, Annotated Code of Maryland, and that it is in good standing and has filed all of its annual reports, together with filing fees, with the Maryland State Department of Assessments and Taxation, and that the name and address of its resident agent filed with the State Department of Assessments and Taxation is:

Name: _____

Address: _____

(If not applicable, so state).

- (2) Except as validly contested, the business has paid, or has arranged for payment of, all taxes due the State of Maryland and has filed all required returns and reports with the Comptroller of the Treasury, the State Department of Assessments and Taxation, and the Department of Labor, Licensing, and Regulation, as applicable, and will have paid all withholding taxes due the State of Maryland prior to final settlement.

M. CONTINGENT FEES

I FURTHER AFFIRM THAT:

The business has not employed or retained any person, partnership, corporation, or other entity, other than a bona fide employee, bona fide agent, bona fide salesperson, or commercial selling agency working for the business, to solicit or secure the Contract, and that the business has not paid or agreed to pay any person, partnership, corporation, or other entity, other than a bona fide employee, bona fide agent, bona fide salesperson, or commercial selling agency, any fee or any other consideration contingent on the making of the Contract.



N. REPEALED

O. ACKNOWLEDGEMENT

I ACKNOWLEDGE THAT this Affidavit is to be furnished to the Procurement Officer and may be distributed to units of: (1) the State of Maryland; (2) counties or other subdivisions of the State of Maryland; (3) other states; and (4) the federal government.

I FURTHER ACKNOWLEDGE that this Affidavit is subject to applicable laws of the United States and the State of Maryland, both criminal and civil, and that nothing in this Affidavit or any contract resulting from the submission of this bid or proposal shall be construed to supersede, amend, modify or waive, on behalf of the State of Maryland, or any unit of the State of Maryland having jurisdiction, the exercise of any statutory right or remedy conferred by the Constitution and the laws of Maryland with respect to any misrepresentation made or any violation of the obligations, terms and covenants undertaken by the above business with respect to (1) this Affidavit, (2) the contract, and (3) other Affidavits comprising part of the contract.

I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THIS AFFIDAVIT ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

Date: _____

By: _____
(Authorized Representative and Affiant)

IF AN INDIVIDUAL:

NAME: _____

_____ Street and/or P.O. Box

City State Zip Code Fed ID or SSN

(SEAL)
Signature Date

WITNESS: _____
Signature



IF A PARTNERSHIP:

NAME: _____

 Street and/or P.O. Box

 City State Zip Code Fed ID or SSN

BY: _____ (SEAL) _____
 Member Signature Title Date

TITLE: _____ WITNESS: _____

IF A CORPORATION:

NAME: _____

 Street and/or P.O. Box

 City State Zip Code Fed ID or SSN

STATE OF INCORPORATION: _____

BY: _____ (SEAL) _____
 Signature Date

TITLE: _____ WITNESS: _____
 Secretary's Signature



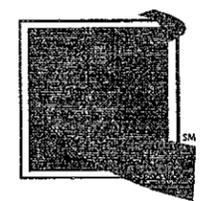
Maryland
Transportation
Authority

SPECIAL PROVISIONS
Contract No. MA 679-000-002

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ADDENDUM NO. 7
 ADDENDUM NO. 2
 ADDENDUM NO. 1
 MA-679-000-002

Maryland Transportation Authority



JOHN F. KENNEDY MEMORIAL HIGHWAY THOMAS J. HATEM MEMORIAL BRIDGE

UPGRADE AND REPLACE EXISTING SIGNING NORTHERN REGION

BALTIMORE COUNTY / HARFORD COUNTY / CECIL COUNTY

CONTRACT NO.: MA-679-000-002

- ADDENDUM NO. 1 SHEET NOS.
1, 2, 10, 11, 67, 82, 83, 113, 118A, 120, 154A, 167, 169
- ADDENDUM NO. 2 SHEET NOS.
1, 32, 160, 169
- ADDENDUM NO. 7 SHEET NOS.
1, 52, 95, 118, 120, 125, 162, 169

INDEX OF SHEETS

SHEET NO.	DWG. NO.	DESCRIPTION
1	-	TITLE SHEET
2	SN-1	GENERAL NOTES AND PROPOSALS
3-5	ESC-01 - ESC-03	EROSION AND SEDIMENT CONTROL NOTES
6-7	G-01 - G-02	SN-2 DRAWING KEY PLANS
8-93	SN-2.01 - SN-2.86	SIGNING PLANS
94-116	SN-3.01 - SN-3.23	GUIDE SIGN MESSAGES - DIMENSIONS AND DETAILS
117-118A	SN-4.01 - SN-4.03	GUIDE SIGN SUPPORTS
119-124	SN-8 - SN-8E	OVERHEAD SIGN STRUCTURE DETAILS
125	SN-9	CANTILEVER SIGN STRUCTURE DETAILS
126-129	D-01 - D-04	TRAFFIC BARRIER DETAILS
130-154A	E-01 - E-26	ELECTRICAL AND TRAFFIC BARRIER DETAILS
155	TCP-01	TRAFFIC CONTROL PLAN
156-169	SN-II.01 - SN-II.14	SIGNING QUANTITIES

STANDARDS AND SPECIFICATIONS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MARYLAND 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 2001" AND ALL REVISIONS THEREOF, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 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" (800) 267-7777 AND THE JFK SPECIAL PROJECTS SUPERVISOR, DAN SAWYERS AT (410) 537-1118 SHALL BE GIVEN 72 HOURS (THREE FULL WORKING DAYS) IN ADVANCE OF EXCAVATING OR SIMILAR WORK IS TO BE PERFORMED.

ENVIRONMENTAL INFORMATION

MDE # 10-SF-0185

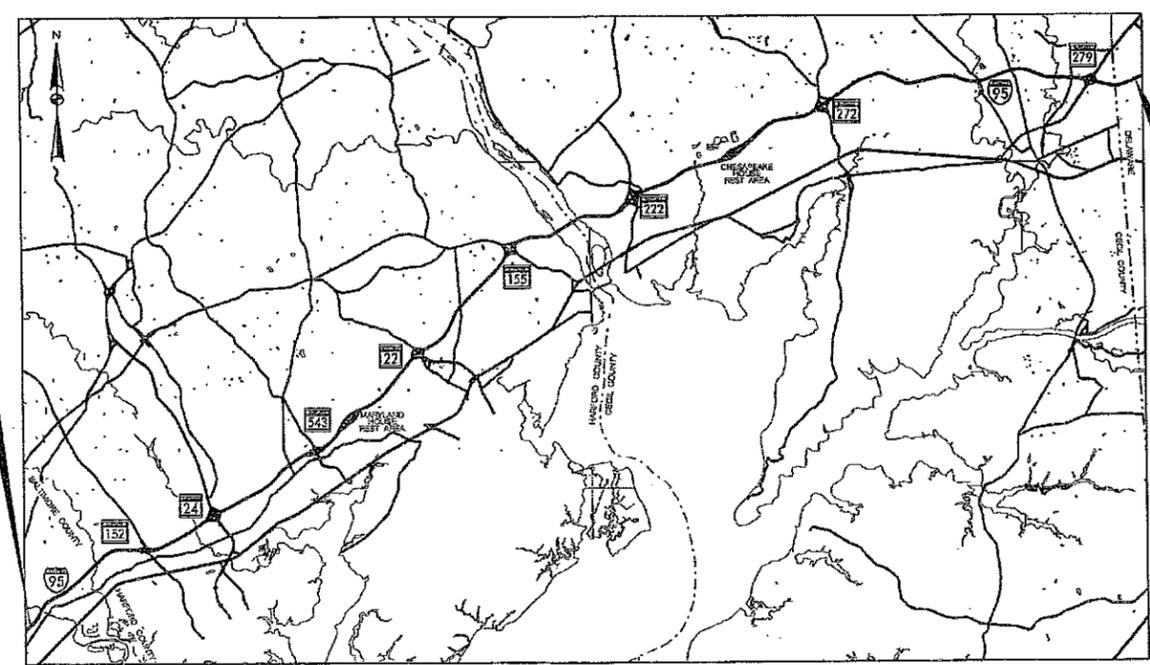
SEDIMENT AND EROSION CONTROL REGULATIONS WILL BE STRICTLY ENFORCED DURING CONSTRUCTION. THE CONTRACTOR SHALL APPLY ALL EROSION AND SEDIMENT CONTROL MEASURES TO ALL EXPOSED MATERIALS EXPOSED BY ANY ACTIVITY ON THE PROJECT. THESE MEASURES SHALL BE COORDINATED WITH OTHER ON-GOING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF SECTION 308 OF THE SPECIFICATIONS.

OWNERS/DEVELOPERS CERTIFICATION:

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS.

12/3/09 DATE
 OWNER/DEVELOPER SIGNATURE
 165 CARD NO. DOUGLAS NOVOCIN, ENVIRONMENTAL MANAGER
 PRINTED NAME AND TITLE

MARYLAND TRANSPORTATION AUTHORITY	
RECOMMENDED FOR APPROVAL <i>Douglas Novocin</i> DIRECTOR, ENGINEERING DIVISION	12-9-09 DATE
APPROVED <i>Geoffrey V. Kolberg</i> CHIEF ENGINEER, OFFICE OF ENGINEERING AND CONSTRUCTION	01/12/10 DATE
APPROVED <i>Ronald L. Freelance</i> EXECUTIVE SECRETARY	1/12/10 DATE



LOCATION MAP
 SCALE: 1"=15,000'

LIMIT OF WORK:
 I-95
 NEW FORGE ROAD
 MILEMARKER 69.7

LIMIT OF WORK:
 I-95
 APPROXIMATELY 1 MILE
 NORTH OF MARYLAND/
 DELAWARE STATE LINE

SABRA, WANG & ASSOCIATES, INC.
 1504 JOHNS AVENUE
 SUITE 100
 BALTIMORE, MD 21227
 (410) 737-9584
 WWW.SABRA-WANG.COM

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 1274
 EXPIRATION DATE: 12-31-2011

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

STRUCTURAL DESIGN

WR&A
 Whitman, Reardon and Associates, LLP
 Engineers and Planners
 80 South Caroline Street
 Baltimore, Maryland 21231
 410-235-3450

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 1388
 EXPIRATION DATE: 12-14-2011

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

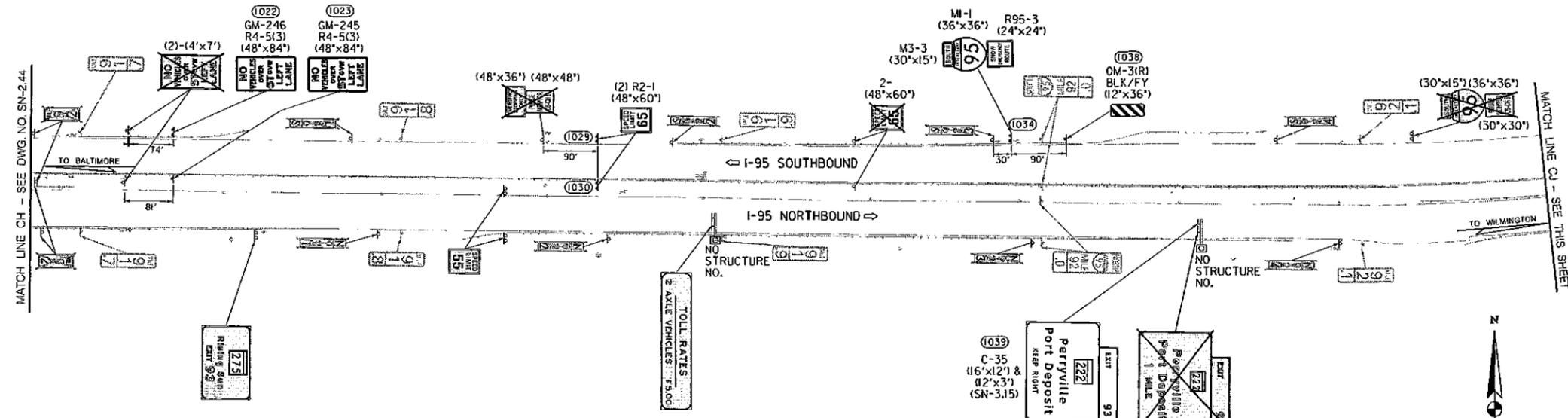
SIGNING AND ELECTRICAL DESIGN

DRILL HOLES

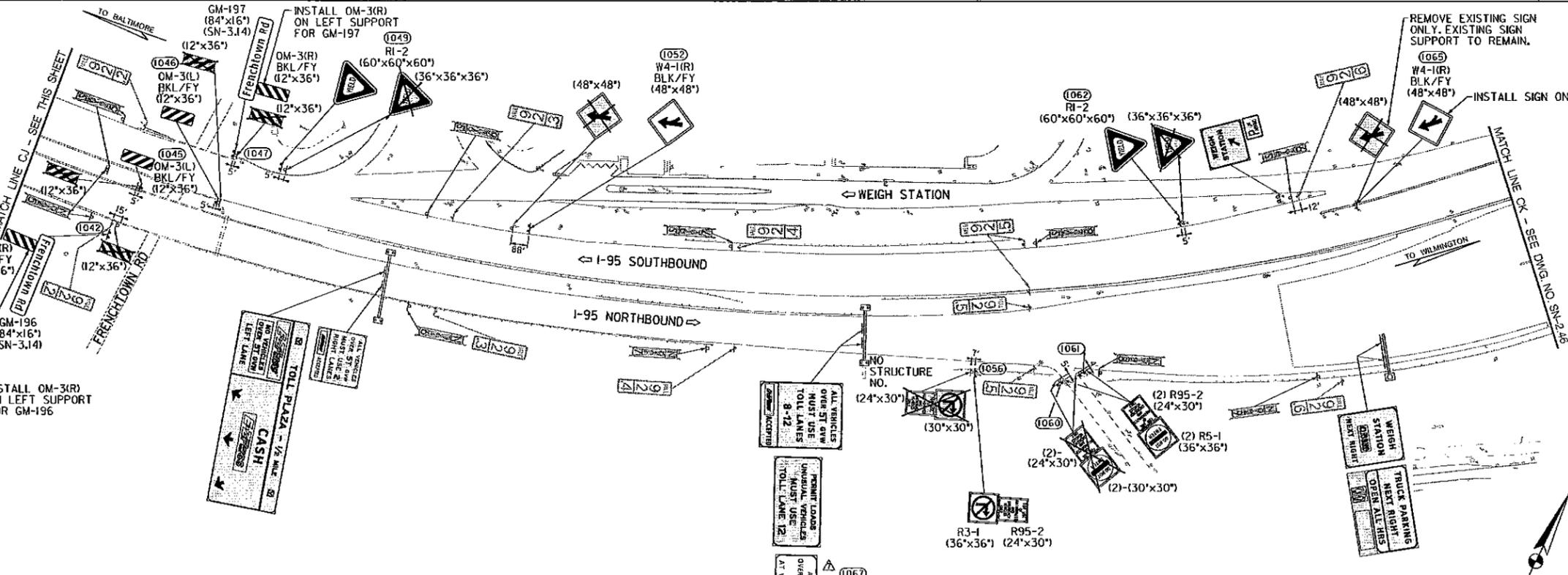
DRILL HOLES

DRILL HOLES

- GENERAL NOTES:**
- ALL SIGNS SHOWN ON THIS PLAN WILL BE THE FINAL OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF MDTA - MARYLAND TRANSPORTATION AUTHORITY.
 - AT A MINIMUM, THE FOLLOWING MSHA TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA) SHALL BE USED FOR THE WORK SHOWN ON THIS PLAN: MD 104.05-01 AND MD 104.05-09.
 - ALL OBJECT MARKERS AND CHEVRONS SIGNS SHALL BE MOUNTED A MINIMUM OF 4'-0" FROM BOTTOM OF SIGN TO TOP OF ROADWAY, REGARDLESS OF WHETHER INDEPENDENTLY MOUNTED OR MOUNTED WITH OTHER SIGNS ON THE SAME SUPPORT(S).
 - REMOVE EXISTING SIGN, LAMPS AND LUMINAIRES, ELECTRICAL CABLES, SIGN/LUMINAIRE SUPPORTS, AND FLEXIBLE AND RIGID CONDUIT.
 - INSTALL SIGN/LUMINAIRE SUPPORTS AS PER STD. NO. MD 803.02 AND SPACED AS PER SIGN LIGHTING SCHEDULE. INSTALL ICELS LAMPS AND LUMINAIRES. INSTALL 1 INCH FLEXIBLE CONDUIT. INSTALL 1 INCH RIGID CONDUIT AS NEEDED. INSTALL 1/2 NO. 10 A.W.G. ELECTRICAL CABLES FROM CONNECTOR KITS AT BASE TO EACH LUMINAIRE.
 - INSTALL PROPOSED SIGN SO THAT LEFT EDGE OF SIGN IS AT LEFT EDGE OF TRUSS AND VERTICALLY CENTERED ABOUT TRUSS, MAINTAINING 20'-9" MINIMUM VERTICAL CLEARANCE FROM BOTTOM OF SIGN TO HIGH POINT OF ROADWAY.
 - ALL SIGNS SHOWN SCREENED ON THIS PLAN, INCLUDING SIGN REMOVAL LINES, ARE PROPOSED BY OTHERS. SIGNS TO BE REMOVED IN THIS CONTRACT WILL INCLUDE SIGN DIMENSIONS.
 - INSTALL SIGN/LUMINAIRE SUPPORTS AS PER STD. NO. MD 803.02 AND SPACED AS PER SIGN LIGHTING SCHEDULE. INSTALL ICELS LAMPS AND LUMINAIRES. INSTALL 1 INCH FLEXIBLE CONDUIT. PULL BACK EXISTING ELECTRICAL CABLES AND INSTALL 1 INCH RIGID CONDUIT 'T' TO TIE INTO EXISTING RIGID CONDUIT AS NEEDED. INSTALL 1/2 NO. 10 A.W.G. ELECTRICAL CABLES FROM CONNECTOR KITS AT BASE TO EACH LUMINAIRE.
 - INSTALL PROPOSED SIGN 2' TO THE RIGHT OF EXISTING SIGN 'PERMIT LOADS UNUSUAL VEHICLES MUST USE TOLL LANE 12'. INSTALL BOTTOM OF SIGN AT THE SAME ELEVATION AS THE EXISTING SIGNS, MAINTAINING 20'-9" MINIMUM VERTICAL CLEARANCE FROM BOTTOM OF SIGN TO HIGH POINT OF ROADWAY.



SIGN LIGHTING SCHEDULE					
STRUCTURE NUMBER	NO. OF LUMINAIRES	WATTAGE	OPERATING VOLTAGE	SPACING (FEET)	REMARKS
C-35	5N	150	277V	1.6, 3.2, 3.2, 3.2, 3.2, 1.6	ICELS-NARROW DISTRIBUTION



SIGN LIGHTING SCHEDULE					
STRUCTURE NUMBER	NO. OF LUMINAIRES	WATTAGE	OPERATING VOLTAGE	SPACING (FEET)	REMARKS
OH-4c	3W	150	277V	2.33, 4.67, 4.67, 2.33	ICELS-WIDE DISTRIBUTION

SIGN LEGEND	
	EXISTING GROUND MOUNTED SIGN AND SUPPORT(S)
	PROPOSED GROUND MOUNTED SIGN AND SUPPORT(S)
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN
	EXISTING CANTILEVER STRUCTURE
	PROPOSED CANTILEVER STRUCTURE
	EXISTING OVERHEAD STRUCTURE
	PROPOSED OVERHEAD STRUCTURE
	TRAFFIC FLOW ARROW
	SIGN NO.
	(SN-3.XX) SIGN DETAIL DRAWING REFERENCE
	LED TRAFFIC SIGNAL HEAD
	EXISTING SIGNALIZED INTERSECTION
	EXISTING TRAFFIC SIGNAL HEAD
FINAL OWNERSHIP AND MAINTENANCE RESPONSIBILITY:	
	MARYLAND STATE HIGHWAY ADMINISTRATION
	MARYLAND TRANSPORTATION AUTHORITY

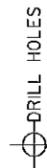
WR&A
Whitman, Reardon and Associates, LLP
Engineers and Planners
801 S. Caroline Street
Baltimore, Maryland 21201
(410) 335-3450

Maryland Transportation Authority
Engineering Division

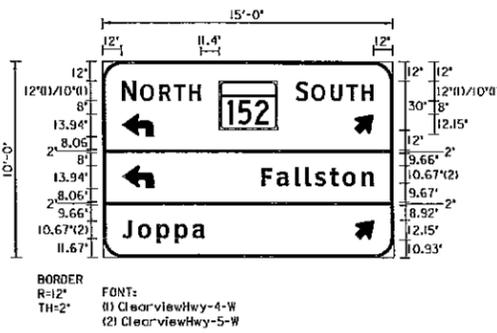
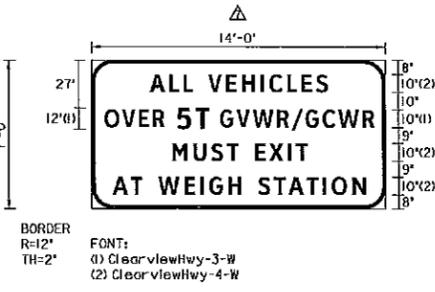
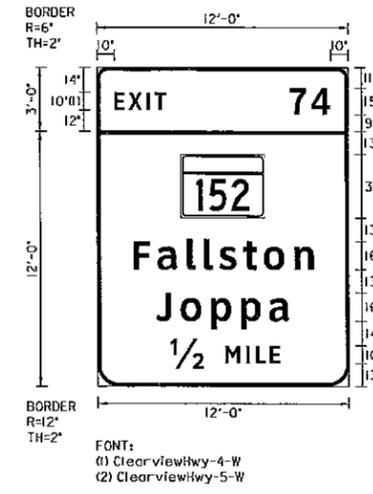
ADDENDUMS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	SHEET REVISED	NML	8/13/10

UPGRADE AND REPLACE EXISTING SIGNING NORTHERN REGION JOHN F. KENNEDY MEMORIAL HIGHWAY THOMAS J. HATEM MEMORIAL BRIDGE
SIGNING PLAN
DESIGNED BY J. MOCNY DRAWN BY J. CHENG CHECKED BY N. LEARY
CONST. REVIEW BY DATE OCTOBER 2009 SCALE 1"=100'

CONTRACT NO. MA-679-000-002
DRAWING NO. SN-2.45
SHEET NO. 52 OF 169

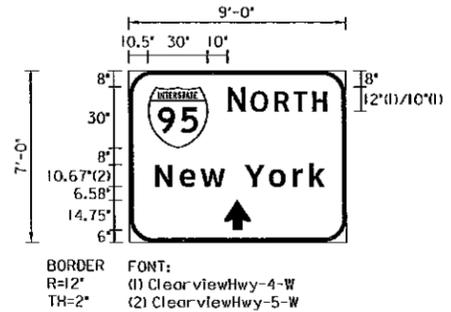
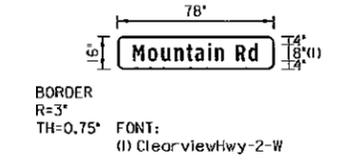
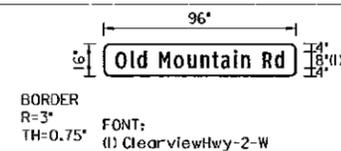


PANEL DESIGNATION	DRAWING NO.	QUANTITY	LEGEND		SIZE		COLOR BORDER			SHIELD	REMARKS
			AREA	WIDTH	HEIGHT	LEGEND	BY/GRND	WIDTH	RADIUS		
C-2	SN-2.04	1	36	12'-0"	3'-0"	W	G	2"	6"		EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)
			144	12'-0"	12'-0"	W	G	2"	12"	M1-5(1) (48"x36")	EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)
OH-4c	SN-2.45	1	98	14'-0"	7'-0"	W	BLK	2"	12"		EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)
GM-3	SN-2.07	1	150	15'-0"	10'-0"	W	G	2"	12"	(2) ARROW DET-2 (2) ARROW DET-1 @ 45° M1-5(1) (36"x30")	EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)



LEGEND 3 BACKGROUND COLORS: BL=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW, FYG=FLUORESCENT YELLOW/GREEN, FY=FLUORESCENT YELLOW, PUR=PURPLE

PANEL DESIGNATION	DRAWING NO.	QUANTITY	LEGEND		SIZE		COLOR BORDER			SHIELD	REMARKS
			AREA	WIDTH	HEIGHT	LEGEND	BY/GRND	WIDTH	RADIUS		
GM-147 GM-148	SN-2.07 SN-2.07	2	10.67	96"	16"	W	G	3/4"	3"		SHEET ALUMINUM (CLEARVIEW TYPE SYSTEM)
GM-149 GM-150	SN-2.07 SN-2.07	2	8.67	78"	16"	W	G	3/4"	3"		SHEET ALUMINUM (CLEARVIEW TYPE SYSTEM)
GM-258	SN-2.47	1	63	9'-0"	7'-0"	W	G	2"	12"	ARROW DET-1 @ 90° M1-1 (30"x30")	EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)
GM-257	SN-2.47	1	63	9'-0"	7'-0"	W	G	2"	12"	ARROW DET-1 @ 90° M1-1 (30"x30")	EXTRUDED ALUMINUM (CLEARVIEW TYPE SYSTEM)



Whitman, Reardon and Associates, LLP
Engineers and Planners
801 S. Caroline Street
Baltimore, Maryland 21201
(410) 295-3450



Maryland Transportation Authority
Engineering Division

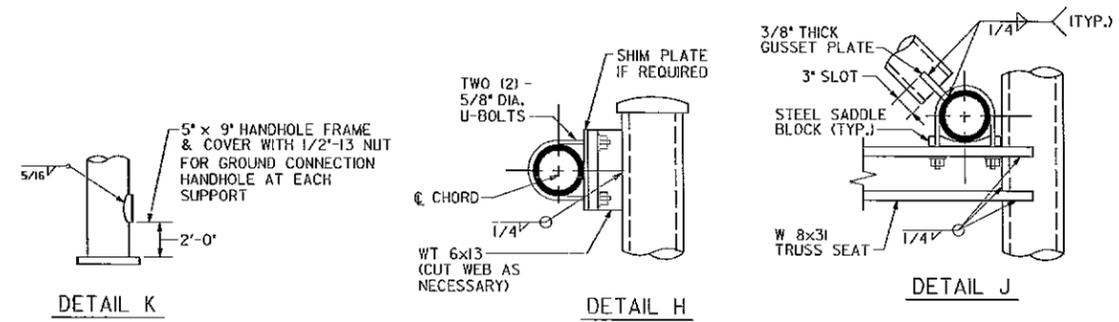
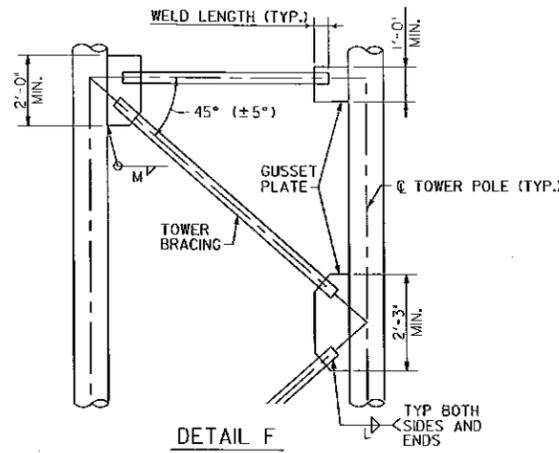
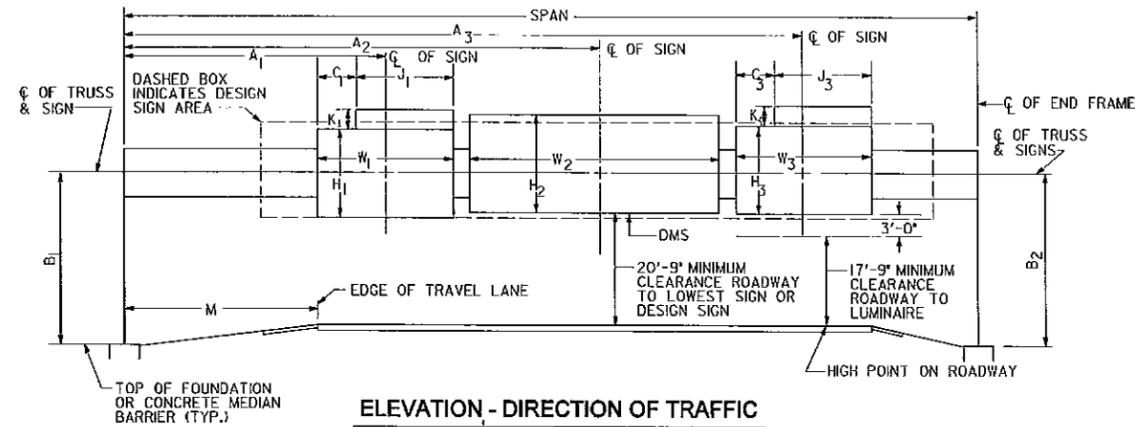
ADDENDUMS & REVISIONS		
NO.	DESCRIPTION	BY DATE
1	SHEET REVISED	NML 8/13/10

UPGRADE AND REPLACE EXISTING SIGNING NORTHERN REGION
JOHN F. KENNEDY MEMORIAL HIGHWAY
THOMAS J. HATEM MEMORIAL BRIDGE
GUIDE SIGN MESSAGES - DETAILS & DIMENSIONS
DESIGNED BY J. MOCNY DRAWN BY J. CHENG CHECKED BY N. LEARY
CONST. REVIEW BY DATE OCTOBER 2009 SCALE NONE

CONTRACT NO. MA-679-000-002
DRAWING NO. SN-3.02
SHEET NO. 95 OF 169

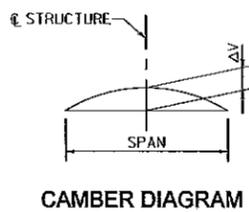
SIGN DESIGNATION	SPAN	SIGN PANELS															END FRAMES													
		NO.	A1	W1	H1	C1	J1	K1	NO.	A2	W2	H2	C2	J2	K2	NO.	A3	W3	H3	C3	J3	K3	TYPE	M	B1 BASED ON DESIGN SIGN SIZE	B2 BASED ON DESIGN SIGN SIZE	D	DESIGN SIGN AREA	PIPE BFACE SIZE	REMARKS
DMS-1	93'-0"	1	44'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	20'-0"	16.0' O.D. X 0.312 X 27'-10"	16.0' O.D. X 0.312 X 26'-7"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-2	89'-0"	1	35'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	11'-0"	16.0' O.D. X 0.312 X 24'-10"	16.0' O.D. X 0.312 X 28'-7"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-3	90'-0"	1	45'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	21'-0"	16.0' O.D. X 0.312 X 26'-9"	16.0' O.D. X 0.312 X 26'-9"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-4	90'-0"	1	43'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	19'-0"	16.0' O.D. X 0.312 X 30'-6"	16.0' O.D. X 0.312 X 27'-3"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-5	84'-0"	1	42'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	24'-0"	16.0' O.D. X 0.312 X 27'-4"	16.0' O.D. X 0.312 X 26'-4"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-6	78'-0"	1	38'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	20'-0"	12.75' O.D. X 0.250 X 29'-0"	12.75' O.D. X 0.250 X 29'-6"	6'-3"	36'-0" W1 X 10'-0" H1	4.00' O.D. X 0.226' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-7	82'-0"	1	38'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	20'-0"	16.0' O.D. X 0.312 X 29'-4"	16.0' O.D. X 0.312 X 27'-2"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-8	79'-6"	1	38'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	6'8"-6"	11'-0"	6'-0"	-	-	-	-	IV	20'-0"	16.0' O.D. X 0.312 X 28'-10"	16.0' O.D. X 0.312 X 25'-3"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-9	81'-0"	1	41'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	23'-0"	16.0' O.D. X 0.312 X 28'-1"	16.0' O.D. X 0.312 X 28'-10"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-10	81'-0"	1	42'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	24'-0"	16.0' O.D. X 0.312 X 27'-9"	16.0' O.D. X 0.312 X 29'-9"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-11	74'-0"	1	37'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	19'-0"	12.75' O.D. X 0.250 X 27'-3"	12.75' O.D. X 0.250 X 28'-9"	6'-3"	36'-0" W1 X 10'-0" H1	4.00' O.D. X 0.226' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-12	77'-0"	1	38'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	20'-0"	12.75' O.D. X 0.250 X 28'-9"	12.75' O.D. X 0.250 X 28'-6"	6'-3"	36'-0" W1 X 10'-0" H1	4.00' O.D. X 0.226' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-13	81'-0"	1	38'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	20'-0"	16.0' O.D. X 0.312 X 28'-7"	16.0' O.D. X 0.312 X 25'-0"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-14	88'-0"	1	43'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	25'-0"	16.0' O.D. X 0.312 X 29'-0"	16.0' O.D. X 0.312 X 25'-8"	6'-3"	36'-0" W1 X 10'-0" H1	6.625' O.D. X 0.280' THK	DMS-6500 lb. DL+1000 lb. LL
DMS-15	73'-0"	1	35'-0"	36'-0"	10'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IV	16'-3"	12.75' O.D. X 0.25 X 27'-8"	12.75' O.D. X 0.25 X 27'-7"	6'-3"	36'-0" W1 X 10'-0" H1	4.00' O.D. X 0.226' THK	DMS-6500 lb. DL+1000 lb. LL

•• WITH 11'-0" (W) X 6'-0" (H) SHAZAM SIGN



BRACING SIZE	GUSSET PLATE THICKNESS	WELD SIZE		MINIMUM WELD LENGTH
		L	M	
4.00' O.D. X 0.226' THK.	1/2"	5/16"	5/16"	4"
6.625' O.D. X 280' THK.	1/2"	5/16"	5/16"	6"

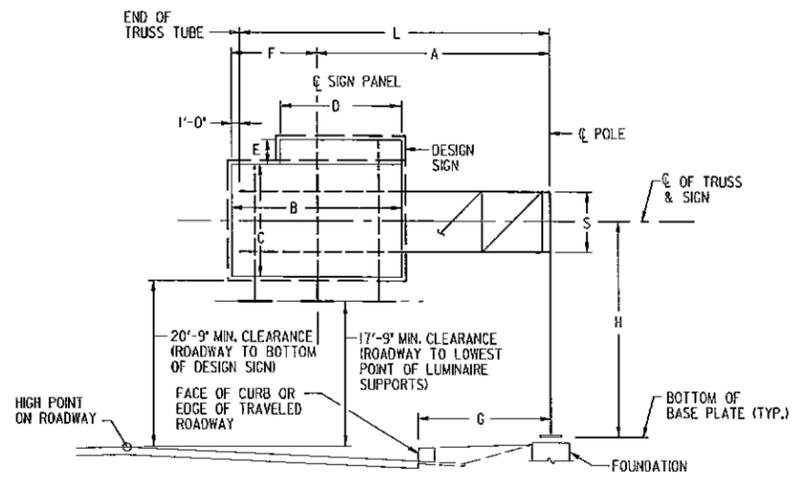
NOTES:
 1) PIPE TO PIPE WELDED CONNECTION WITHOUT GUSSET PLATES WILL BE ACCEPTABLE WITH 1" FILLET WELD SIZE.
 2) PROVIDE SLOT IN TOWER BRACING MEMBERS FOR CONNECTION TO GUSSET PLATES.



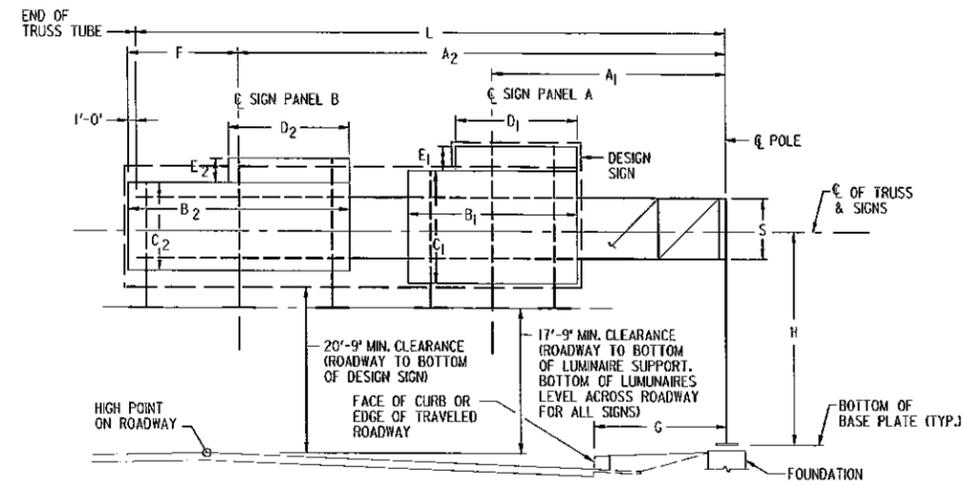
- GENERAL NOTES:**
- REFER TO THE CONTRACT SPECIFICATIONS AND MD STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY 2001) FOR MATERIAL, CONSTRUCTION SPECIFICATIONS AND DETAILS.
 - SIGN STRUCTURES DESIGNED IN ACCORDANCE WITH AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" DATED 2001 INCLUDING ALL INTERIM SPECIFICATIONS THROUGH 2006. EACH OVERHEAD SPAN STRUCTURE IS DESIGNED FOR THE FOLLOWING TWO CASES:
 CASE 1: DESIGN SIGN AREA IS CENTERED OVER THE SPAN.
 CASE 2: DESIGN SIGN EDGE IS PLACED 5'-0" FROM CENTERLINE OF END FRAME.
 - ALL STRUCTURAL MAIN TUBES SHALL CONFORM TO APIS-LX52.
 - ALL OTHER TUBES SHALL HAVE MINIMUM 30 KSI YIELD STRENGTH AND CONFORM TO A501.
 - ALL STEEL PLATES, WF BEAMS AND MISCELLANEOUS SHAPES SHALL CONFORM TO A709, GRADE 36.
 - ANY ALTERNATE DESIGN SHALL BE STRUCTURALLY EQUIVALENT AND SUBJECT TO APPROVAL BY THE ENGINEER.
 - ANY ALTERNATE DESIGNS MUST BE SIMILAR TO THE DESIGN SHOWN ON THE PLANS.
 - ALTERNATE DESIGNS MAY BE REJECTED BY THE ENGINEER FOR ANY REASON, INCLUDING REASONS NOT RELATED TO STRUCTURAL EQUIVALENCY.
 - ACTUAL STRUCTURE HEIGHT "H" SHALL NOT BE LESS THAN 20'-9" + 1/2 x DESIGN SIGN HEIGHT. ELEVATION DIFFERENCE BETWEEN HIGH POINT OF ROADWAY AND TOP OF FOUNDATION.
 - ALL OVERHEAD SIGN SUPPORTS SHALL BE LOCATED BEHIND PHYSICAL TRAFFIC BARRIERS.
 - ALL CONNECTION BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325 (BOLTS OVER 1 1/2" DIA., ASTM A449), WASHERS F436 AND NUTS A194, GRADE 2 OR 2H. THE BOLTS SHALL HAVE A FLAT WASHER UNDER THE ELEMENT TO BE TURNED.
 - U-BOLTS SHALL CONFORM TO A276 TYPE 304 (STAINLESS STEEL) OR A307. FLAT WASHERS AND HEX LOCK NUTS SHALL BE USED WITH U-BOLTS. REFER TO STANDARD NO. MD 803.02 FOR ADDITIONAL INFORMATION.
 - BASE PLATE SHALL BE IN FULL CONTACT WITH ALL FLAT WASHERS.
 - GROUT SHALL NOT BE PLACED BETWEEN THE BASE PLATE AND TOP OF CONCRETE PARAPET.
 - STEEL TEMPLATES SHALL BE USED TO SET ANCHOR BOLTS PLUMB WHEN POURING THE FOUNDATION. ANCHOR BOLT HOLES SHALL BE 1/16" LARGER THAN ANCHOR BOLT DIAMETER.
 - ALL ANCHOR BOLTS SHALL CONFORM TO F 1554, GRADE 55 SI.
 - REFER TO APPROPRIATE 800 SERIES STANDARD PLATE REGARDING MISCELLANEOUS SIGN/LUMINAIRE MOUNTING DETAILS AND ELECTRICAL WIRING DETAILS.
 - TRUSS CAMBER ΔV SHALL BE INCORPORATED DURING FABRICATION.
 - SIGN STRUCTURE SHALL BE GALVANIZED TO CONFORM TO A123.
 - ALL HARDWARE THAT IS NOT STAINLESS STEEL SHALL BE GALVANIZED TO CONFORM TO A153.
 - REFER TO OTHER PERTINENT SHEETS IN THIS CONTRACT FOR FOUNDATION INFORMATION.
 - ALL ANCHOR BOLTS SHALL BE PLUMB AFTER FOUNDATION INSTALLATION.
 - ALL ANCHOR BOLT NUTS SHALL BE TIGHTENED USING TURN OF BOLT METHOD. (30° MIN TO 45° MAX. TURN AFTER SNUG TIGHT).
 - INSTALL ACCESS HOLE ON POLE OPPOSITE DIRECTION OF TRAFFIC.
 - △ SIGN STRUCTURE APPURTENANCES INCLUDING BUT NOT LIMITED TO 15/16" WEEP HOLES, 5" x 9" ACCESS HOLES NEAR TOP OF TOWER, L 4" x 4" x 1/2" x 0'-4", AND 1" BLIND HALF COUPLING WIRE OUTLET SHALL BE PROVIDED IN CONFORMANCE WITH STANDARD NO. MD 803.08. SEE NOTE 27 FOR ADDITIONAL REQUIREMENTS.
 - △ THE CONTRACTOR SHALL ACHIEVE A PLUMB TOWER BY TILTING THE POLE BY ADJUSTING LEVELING NUTS DURING INSTALLATION.
 - △ 27. FOR EACH COLUMN OF THE END TOWER AN ADDITIONAL 1" BLIND HALF COUPLING WIRE OUTLET WITH PLUG SHALL BE PROVIDED NEAR THE REQUIRED UPPER 1" BLIND HALF COUPLING, AS SHOWN IN STD. NO. MD 803.08. THE UPPER ACCESS HOLE SPECIFIED IN STD. NO. MD 803.08 SHALL BE ABLE TO ACCESS BOTH UPPER 1" BLIND HALF COUPLINGS. THIS WILL PROVIDE A TOTAL OF (2) UPPER 1" BLIND HALF COUPLINGS PER COLUMN, FOR A TOTAL OF (4) PER SIGN STRUCTURE.
 - △ 28. SEE DRAWING NO. SN-8, OVERHEAD SPAN FOUNDATION - SECTION FOR ADDITIONAL FOUNDATION DETAILS.

- REFERENCE NOTES:**
- FOR LOCATION OF DETAILS F, H, J AND K, SEE DWG NO. SN-8B
 - FOR DMS STRUCTURE CAT WALK AND DETAILS, SEE DWG. NO. SN-8C.

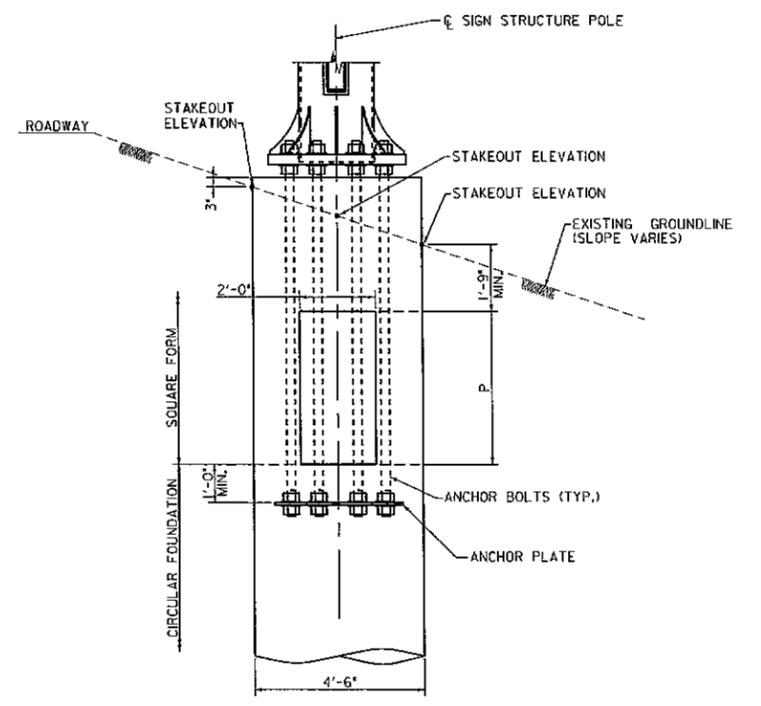
<p>Whitman, Requardt and Associates, LLP Engineers and Planners 801 S. Caroline Street Baltimore, Maryland 21281 (410) 238-3460</p>	<p>SABRA WANG & ASSOCIATES, INC. 1504 JON AVENUE SUITE 100 BALTIMORE, MD 21207 (410) 737-6564 WWW.SABRA-WANG.COM</p>	<p>Maryland Transportation Authority Engineering Division</p>	ADDENDUMS & REVISIONS		UPGRADE AND REPLACE EXISTING SIGNING NORTHERN REGION JOHN F. KENNEDY MEMORIAL HIGHWAY DMS STRUCTURES - SHEET 1 OF 3	CONTRACT NO. MA-679-000-002
			NO. DESCRIPTION BY DATE	NO. DESCRIPTION BY DATE		DRAWING NO. SN-8A
DESIGNED BY D.S. CONST. REVIEW BY	DRAWN BY D.S./P.M. DATE OCTOBER 2009	CHECKED BY S.M. SCALE N.T.S.	SHEET NO. 120 OF 169			



ELEVATION OF CANTILEVER SIGN SUPPORT - SINGLE PANEL
DIRECTION OF TRAFFIC



ELEVATION OF CANTILEVER SIGN SUPPORT - DOUBLE PANEL
DIRECTION OF TRAFFIC



TYPE A CANTILEVER FOUNDATION - SECTION
(SUPPLEMENT WITH STD. NO. MD 803.07-01)

NOTES:

1. FILL SLOPE SHOWN, FOR CUT SLOPES, DETAIL IS MIRRORED.
2. WORK THIS DETAIL WITH THE APPLICABLE SHA STANDARD DETAILS AND 803.03 OF THE SPECIFICATIONS.
3. REINFORCEMENT STEEL NOT SHOWN FOR CLARITY. REFER TO THE APPLICABLE SHA STANDARD DETAILS.

CANTILEVER SIGN SUPPORT - SINGLE PANEL																
SIGN STRUCTURE NO.	STRUCTURE MARK	STRUCTURE DIMENSIONS			SIGN PANEL							DESIGN SIGN SIZE W x H	FOUNDATION		LOCATION	
		H	S	L	A	B	C	D	E	F	G**		MARK	TYPE		C.Y. CONC.
C-17	C-45-32-E	3'-2"	4'-0"	40'-0"	26'-6"	29'-0"	13'-0"	-	-	14'-6"	20'-0"	28' (N) X 16' (H)	CF-23	A	15.9	MD 155 NB, 210' WEST OF EXISTING GROUND MOUNTED SIGN
C-19	C-40-30-E	29'-5"	4'-0"	40'-0"	29'-0"	24'-0"	12'-0"	12'-0"	3'-0"	12'-0"	20'-0"	26' (N) X 16' (H)	CF-20	A	14.4	I-95 SB, 100' NORTH OF EXISTING BRIDGE
C-42	C-30-30-A	28'-6"	4'-0"	26'-0"	20'-6"	13'-0"	10'-0"	-	-	6'-6"	15'-0"	18' (N) X 16' (H)	CF-11	A	12.5	MD 279 SB, 46' NORTH OF EXISTING BRIDGE
C-43	C-25-30-A	27'-8"	4'-0"	23'-0"	17'-6"	13'-0"	10'-0"	-	-	6'-6"	11'-0"	16' (N) X 16' (H)	CF-5	A	8.6	MD 279 NB, 30' SOUTH OF EXISTING BRIDGE
C-48	C-40-32-E	30'-10"	4'-0"	37'-0"	26'-0"	23'-0"	15'-0"	12'-0"	3'-0"	11'-6"	20'-0"	26' (N) X 16' (H)	CF-22	A	15.0	I-95 NB, 30' NORTH OF EXISTING MILE MARKER
C-50	C-45-32-C	30'-0"	4'-0"	45'-0"	34'-0"	24'-0"	9'-0"	-	-	12'-0"	23'-0"	23' (N) X 16' (H)	CF-21	A	15.3	I-95 NB, 185' NORTH OF EXISTING MILE MARKER

* 1/2" (W) x 3' (H) EXT. PANEL
** 'G' DIMENSION FROM EDGE OF TRAVEL LANE/FACE OF CURB/FLOW LINE OF CONCRETE BARRIER TO CENTERLINE OF POLE

CANTILEVER SIGN SUPPORT - DOUBLE PANEL																					
SIGN STRUCTURE NO.	STRUCTURE MARK	STRUCTURE DIMENSIONS			SIGN PANEL								DESIGN SIGN SIZE W x H	FOUNDATION		LOCATION					
		H	S	L	PANEL A				PANEL B					MARK	TYPE		C.Y. CONC.				
C-46	C-45-32-E	29'-6"	4'-0"	45'-0"	26'-0"	14'-0"	12'-0"	14'-0"	3'-0"	40'-6"	11'-0"	11'-0"	-	-	5'-6"	19'-0"	28' (N) X 16' (H)	CF-23	A	15.9	I-95 SB, 15' SOUTH OF EXISTING CANTILEVER STR.
C-51	C-45-32-E	30'-10"	4'-0"	45'-0"	28'-0"	14'-0"	12'-0"	14'-0"	3'-0"	38'-0"	16'-0"	11'-0"	-	-	8'-0"	20'-7"	28' (N) X 16' (H)	CF-23	A	15.9	I-95 SB, 740' SOUTH OF EXISTING DMS #838 IN DE
C-52	C-45-32-E	29'-6"	4'-0"	45'-0"	17'-0"	14'-0"	10'-0"	-	-	36'-0"	20'-0"	10'-0"	12'-0"	3'-0"	10'-0"	20'-0"	28' (N) X 16' (H)	CF-23	A	15.9	I-95 SB, 35' SOUTH OF EXISTING CANTILEVER STRUCTURE

* 1/2" (W) x 3' (H) EXT. PANEL
** 'G' DIMENSION FROM EDGE OF TRAVEL LANE/FACE OF CURB/FLOW LINE OF CONCRETE BARRIER TO CENTERLINE OF POLE

GENERAL NOTES:

1. REFER TO CONTRACT PROPOSAL AND MD. STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS FOR MATERIAL, CONSTRUCTION SPECIFICATIONS AND DETAILS.
2. REFER TO ROADWAY LIGHTING PLANS FOR LIGHTING CHARTS.
3. ANY ALTERNATE DESIGN SHALL BE STRUCTURALLY EQUIVALENT AND SUBJECT TO APPROVAL BY THE ENGINEER.
4. ALL ALTERNATE DESIGNS MUST BE SIMILAR TO THE DESIGN SHOWN ON THE PLANS.
5. ALTERNATE DESIGNS MAY BE REJECTED BY THE ENGINEER FOR ANY REASON, INCLUDING REASONS NOT RELATED TO STRUCTURAL EQUIVALENCY.
6. ACTUAL STRUCTURE HEIGHT "H" SHALL NOT BE LESS THAN 20'-9" + 1/2 x DESIGN SIGN HEIGHT + ELEVATION DIFFERENCE BETWEEN HIGH POINT OF ROADWAY AND TOP OF FOUNDATION.
7. ALL SIGN STRUCTURE SUPPORTS SHALL BE LOCATED BEHIND PHYSICAL TRAFFIC BARRIERS.
8. ALL ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF F1554, GRADE 55 SI.
9. STEEL TEMPLATES SHALL BE USED TO SET ANCHOR BOLTS PLUMB WHEN POURING THE FOUNDATION.
10. ALL ANCHOR BOLTS SHALL BE PLUMB AFTER FOUNDATION INSTALLATION.
11. ALL CONNECTION BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325 (BOLTS OVER 1 1/2" DIA. ASTM A449), WASHERS F436 AND NUTS A194 GRADE 2 OR 2H. THE BOLTS SHALL HAVE A FLAT WASHER UNDER THE ELEMENT TO BE TURNED.
12. USE LOCK NUTS AND FLAT WASHERS FOR ALL "U" BOLTS (A307 OR EQUIVALENT).
13. BASE PLATE SHALL BE IN FULL CONTACT WITH ALL FLAT WASHERS.
14. GROUT SHALL NOT BE PLACED BETWEEN THE BASE PLATE AND CONCRETE TOP.
15. FOR ALL STRUCTURAL DETAILS, SEE STANDARDS NO. MD-803.04 THRU. MD-803.08-23.

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Maryland Transportation Authority
Engineering Division

ADDENDUMS & REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	SHEET REVISED	NML	08/13/10

**UPGRADE AND REPLACE EXISTING SIGNING
NORTHERN REGION
JOHN F. KENNEDY MEMORIAL HIGHWAY**
CANTILEVER SIGN STRUCTURE

DESIGNED BY D.S. DRAWN BY D.S. CHECKED BY S.N.
CONST. REVIEW BY _____ DATE OCTOBER 2009 SCALE N.T.S.

CONTRACT NO. **MA-679-000-002**
DRAWING NO. **SN-9**
SHEET NO. **125 OF 169**

