



Maryland Department of Transportation

*State Highway Administration
Baltimore, Maryland
Invitation for Bids*

Contract No. MO4505168
F.A.P No. ES-495-2(276)N

ECONOMIC RECOVERY PROJECT

I-495 (Capital Beltway)

**From Potomac River to I-270
(Safety and Resurface)**

Montgomery County

Minority Business Enterprises are encouraged to respond to this Solicitation Notice.

The State Highway Administration will only be responsible for the completeness of documents obtained directly from the State Highway Administration Cashier's Office.

Failure to attach all addenda may cause the bid to be irregular.

VENDOR I.D. NUMBER

S.H.A. USE ONLY



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NOTICE TO BIDDERS

A "Pre-Bidding Session" will not be held.

SPECIAL NOTICE TO CONTRACTORS

Funding for this project is contingent on the passage of a federal infrastructure stimulus bill. Award of this contract will be conditioned upon the availability of federal funds and the ability of this contract to meet any special requirements of the final authorization bill. If either of these conditions cannot be met, the project may be cancelled.

NOTICE

NOTICE TO CONTRACTORS

Effective JUNE 12, 2008 all sealed bids for projects will be received by the State Highway Administration's Office of Construction Hanover Complex.

Address

**7450 Traffic Drive
Hanover, Maryland 21076**

NOTICE TO CONTRACTORS

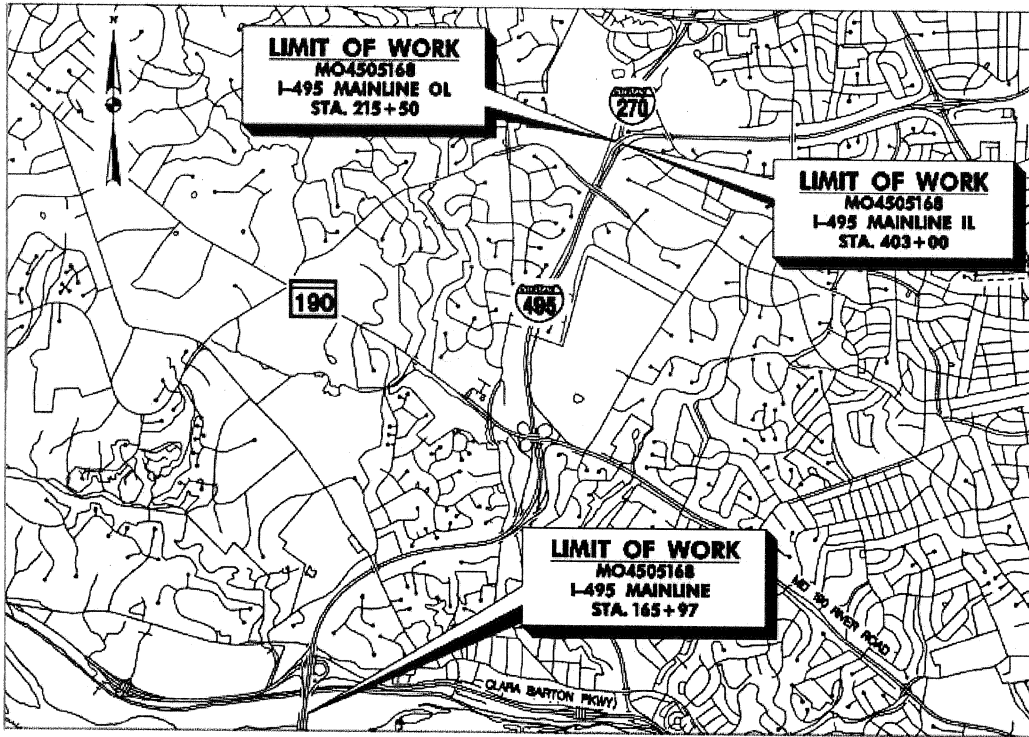
The Specifications utilized with this bid book are those issued by the Maryland State Highway Administration dated July 2008.

Copies may be purchased at:

Maryland State Highway Administration
Cashier's Office
211 East Madison Street
Baltimore, Maryland 21202
Phone 410-545-8490

The purchase price of the July 2008 Specifications Book is \$30.00. When material is mailed an additional fee of \$5.50 will be charged.

S.H.A. CONTRACT NO. MO4505168
 FEDERAL AID PROJECT NO. ES-495-2(276)N



I-495 (Potomac River to I-270)

SCALE: NONE

LOCATION MAP

MONTGOMERY COUNTY

3.68 Miles (Mainline I-495 only)

"I/We herby certify that any clearing, grading construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project shall have successfully completed a Maryland Department of the Environment training program for the control of erosion and sediment before beginning the project."

"I herby authorize the right of entry for periodic on-site evaluation by State, Department of the Environment, compliance inspectors."

Elderly and handicapped Facilities: The design of the Project has incorporated facilities for the elderly and handicapped in compliance with State and Federal Legislation.

REVIEWED AND
 APPROVAL RECOMMENDED

[Signature] 1/29/09
 DISTRICT ENGINEER DATE

APPROVAL RECOMMENDED

[Signature] 1/30/09
 DIRECTOR DATE

APPROVED

[Signature]
 DEPUTY ADMINISTRATOR/
 CHIEF ENGINEER DATE
 FOR PLANNING, ENGINEERING, REAL
 ESTATE AND ENVIRONMENT

DESIGN DESIGNATION CHART

DESIGN DESIGNATION	Outerloop		Innerloop	
	2009	2029	2009	2029
Control\Years				
Average Daily Traffic (A.D.T.)				
N. of Virginia State Line to S. of C. B. Pkwy	124,750	140,700	124,750	140,700
N. of Clara Barton Pkwy to S. of C. J. Pkwy	114,100	124,400	105,400	114,900
N. of Cabin John Pkwy to S. of MD 190	116,700	139,400	107,700	128,700
North of MD 190 to S. of I-270	131,000	148,500	103,000	116,600
Design Hourly Volume (D.H.V.)	7%	7%	7%	7%
Directional Distribution	100%	100%	100%	100%
% Trucks – A.D.T.	8%	8%	8%	8%
% Trucks – D.H.V.	6%	6%	6%	6%
Design Speed	65 MPH			
Functional Classifications	Interstate			
Controls of Access	Full			
Intensity of Development	Urban			
Terrain	Rolling			
Anticipated Posted Speed	55 MPH			

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NOTICE TO ALL HOLDERS OF THIS CONTRACT DOCUMENT

**NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP)
REPORT 350 IMPLEMENTATION SCHEDULE FOR DEVICES USED IN THE
MAINTENANCE OF TRAFFIC**

Except as otherwise specified in this Section, all items for the maintenance of traffic, including those listed under the following categories, shall be crashworthy in conformance with Level 3 or other Level as specified by the Engineer in conformance with the safety crash testing and performance criteria published in the National Cooperative Highway Research Program (NCHRP) Report 350, "Recommended Procedures for the Safety Performance Evaluation of Highway Features." When conformance with NCHRP Report 350 is required, the Contractor shall provide the Engineer with the manufacturers' certifications that the devices comply with the specified criteria.

Unless specifically waived by an attachment to these Contract Provisions, devices must be approved by the Office of Traffic and Safety.

Category 1 Devices

These devices are cones, tubular markers, flexible delineator posts, and drums, all without any accessories or attachments, which are used for channelization and delineation.

Category 2 Devices

These devices are Type I, II, and III barricades; portable sign supports with signs; intrusion alarms; and drums, vertical panels, and cones, all with accessories or attachments.

Category 3 Devices

- (a) Truck Mounted Attenuators (TMAs).
- (b) Temporary Barrier.
 - (1) Concrete Barrier.
 - (2) Traffic Barrier W Beam and Water Filled Barrier.
- (c) Temporary End Treatments.

Category 4 Devices

These devices are area lighting supports, arrow panels, and portable variable message signs that are usually portable or trailer-mounted.

CONTRACT PROVISIONS
(NCHRP) REPORT 350 IMPLEMENTATION SCHEDULE

CONTRACT NO. MO4505168
 2 of 2

WORK ZONE DEVICES	IMPLEMENTATION SCHEDULE TO CONFORM TO NCHRP REPORT 350 CRITERIA
CATEGORY 1 Cones, tubular markers, flexible delineator posts, and drums (all without any accessories or attachments)	All devices shall conform to NCHRP Report 350 criteria.
CATEGORY 2 Type I, II, and III barricades; portable signs supports with signs; intrusion alarms; and drums, vertical panels, and cones (all with accessories or attachments)	All devices shall conform to NCHRP Report 350 criteria.
CATEGORY 3 (a) Truck Mounted Attenuators (TMA) (b) Temporary Barriers (1) Concrete Barrier (2) Traffic Barrier W Beam and Water Filled Barrier (c) Temporary End Treatments	All devices shall conform to NCHRP Report 350 criteria.
CATEGORY 4 Portable trailer mounted devices including area lighting supports, arrow panels, and changeable message signs	The Contractor may use devices that do not conform to NCHRP Report 350 criteria, until compliance dates are established. Use of these devices shall comply with the provisions of Part 6 of the MUTCD.



OCCUPYING WETLANDS

The Contractor is hereby alerted to the importance of preserving wetland areas. The Administration, in conjunction with the various environmental agencies, has developed these Contract Documents so as to minimize or eliminate disturbance and damage to existing wetland areas. In order to accomplish this, the following must be rigidly adhered to:

- (a) Prior to performing any work on the project, the areas of wetland will be identified and marked as directed by the Administration. All personnel of the Contractor or sub-contractors shall be alerted to these designated areas.
- (b) The Contractor or sub-contractors shall not impact any wetland or waterway, whether it be permanently or temporarily unless otherwise stipulated in the permit application and approved as an authorized action by the appropriate regulatory agency. No fill shall be placed in these areas without a permit.
- (c) If a Contractor or sub-contractor has to impact a wetland or waterway that is not covered by an existing wetland permit, they shall immediately notify the Engineer. The Engineer will notify the Environmental Programs Division to determine the extent of any permit modification. At that time the Environmental Programs Division will request a permit modification or submit a permit application.
- (d) If the Contractor impacts any wetland or waterway for which they do not have a wetland permit, they shall be responsible for restoring the wetland areas and possibly mitigating the wetland impacts to the full satisfaction of the environmental agencies, which could include monetary compensation.
- (e) The cost of restoration and mitigation of the impacted areas shall be at no additional cost to the Administration.

The importance of not abusing the wetland areas cannot be overemphasized. Abuse of wetland areas could jeopardize the operation of the total Contract and could be cause for a shut-down. If a shut-down occurs because of the Contractor's failure to secure the required permits (i.e. the Contractor's method of work includes impacts not approved by previously acquired permits), the Contractor's negligence or operations, all costs and damages to the Contractor and to the State will be at no additional cost to the Administration. Noncompliance with these requirements will not be considered for an extension of Contract time.

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

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ATTACHMENTS

A. Employment Preference for Appalachian Contracts
(included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

- Section I, paragraph 2;
- Section IV, paragraphs 1, 2, 3, 4, and 7;
- Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

- a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

- b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 *et seq.*) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

- a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

- b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may

extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. **Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work.

This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV

and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers as defined in Section IV.4(c), when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the

amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work

actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified on an applicable wage determination or is

approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which

such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 4):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including

apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less than the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed,

or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 *et seq.*, as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 *et seq.*, as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.
2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.
3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.
4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions: (Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter

into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that

the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.



**AFFIRMATIVE ACTION REQUIREMENTS
UTILIZATION OF DISADVANTAGED BUSINESS ENTERPRISES
FOR FEDERAL-AID CONTRACTS**

CONTRACT GOALS

FOR THE PURPOSE OF THIS CONTRACT, A GOAL OF **16%** SIXTEEN PERCENT HAS BEEN ESTABLISHED FOR SOCIALLY AND ECONOMICALLY DISADVANTAGED BUSINESSES THAT ARE OWNED AND CONTROLLED BY – THOSE INDIVIDUALS WHO ARE BLACK AMERICANS, HISPANIC AMERICANS, ASIAN-PACIFIC AMERICANS, SUBCONTINENT ASIAN AMERICANS, NATIVE AMERICANS, OR WOMEN PURSUANT TO THE MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT) MINORITY BUSINESS ENTERPRISE PROGRAM:

It is the policy of the Maryland Department of Transportation that disadvantaged business enterprises as defined in 49 CFR Part 26 and the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) shall have an equal opportunity to participate in the performance of the contracts financed in whole or in part with Federal funds under these agreements. Consequently, the disadvantaged business enterprise requirements of 49 CFR Part 26 and SAFETEA-LU apply to this agreement.

The bidder agrees to ensure that disadvantaged business enterprises as defined in 49 CFR Part 26 and SAFETEA-LU have an equal opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds provided under this agreement. In this regard, all bidders shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and SAFETEA-LU to ensure that disadvantaged business enterprises have an equal opportunity to compete for and perform on Federally funded contracts. The Maryland Department of Transportation and their bidders shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of this Contract.

A. GENERAL

For the purpose of these requirements, the following terms as defined below shall apply:

Administration Representative – A DBE/MBE Officer or employee of an Administration who enforces the laws and regulations pertaining to disadvantaged and minority business enterprise and contract compliance.

Affirmative Actions – Specific steps taken to eliminate discrimination and its effects, to ensure nondiscriminatory results and practices in the future, and to involve disadvantaged and minority business enterprises fully in contracts and programs.

Business Enterprises – Any legal entity which is organized in any form other than as a joint venture (e.g., sole proprietorship, partnership, corporation, etc.) to engage in lawful commercial transactions.

Certified Business – A business which by order of the Chair/MBE Advisory Council or his/hers designee, has been certified as a bona fide DBE/MBE. MDOT certification does not equate to a pre-qualification status.



DBE – Disadvantaged Business Enterprise – Reference 49 CFR, Part 26, Subpart A) a small business concern: (1) which is at least 51 percent owned by one or more socially and economically disadvantaged individuals. Where stock ownership is involved, the disadvantaged owner(s) shall own at least 51 percent of each class of voting stock and at least 51 percent of the aggregate of all classes of stock that have been issued (also applies to publicly owned businesses); and (2) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who have ownership. In this specification the terms MBE and DBE have the same meaning.

DBE/MBE Directory – A compilation of businesses certified by MDOT as disadvantaged, minority, or socially and economically disadvantaged businesses. The directory will be published annually with quarterly supplements. It will also be provided in automated format and on the Internet to be updated as changes are made.

DBE/MBE Participation Packet – The documents submitted by the bidder or proposer pursuant to the appropriate special bid provisions. The DBE/MBE Participation Packet consists of the Certified DBE Utilization and Fair Solicitation Affidavit and the DBE Participation Schedule, both of which must be submitted with your bid or initial price proposal. The DBE Participation Packet also includes the following documents, which shall be submitted after bids or proposals are opened: Outreach Efforts Compliance Statement (MDOT-OP-018-2), DBE Subcontractor Project Participation Affidavit (MDOT-OP-019-2), MDOT Joint Venture Disclosure Affidavit (D-EEO-006), and Minority Contractor Unavailability Certificate (OOC46).

DBE/MBE Program – A program developed by MDOT to implement the requirements of Title 14, Subtitle 3 of the State Finance and Procurement Article, Annotated Code of Maryland; Title 10, Subtitle 3 of the State Finance and Procurement Article of the Annotated Code of Maryland for Leases of State-Owned Property; and 49 CFR, Part 26, Subparts A and C for all Federal Department of Transportation Financial Assistance Programs.

Director, Office of Equal Opportunity – The individual designated for the Administration’s overall MBE compliance.

Joint Venture – An association of a DBE/MBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills, and knowledge, and in which the DBE/MBE is responsible for a distinct, clearly defined portion of the work of the contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest.

Small Business Administration (SBA) 8(a) Certification – The SBA 8(a) Certification Program is a Federal Program which establishes firms as disadvantaged and eligible for participation in the Federal SBA Program.

Socially and Economically Disadvantaged Individual Pursuant to 49 CFR, Part 26 – Those individuals who are citizens of the United States (or lawfully admitted permanent residents). For convenience, these individuals and groups are referred to as “minorities” in this document and who are:

1. Found by the MDOT to be socially and economically disadvantaged on a case-by-case basis;



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2. Any individual in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged.
 - a. "Black Americans," which includes persons having origins in any of the Black racial groups of Africa;
 - b. "Hispanic Americans," which includes persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race;
 - c. "Native Americans," which includes persons who are American Indian, Eskimos, Aleuts, or Native Hawaiians;
 - d. "Asian-Pacific Americans," which included persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands (Republic of Palau), the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kirbati, Juvalu, Nauru, Federated States of Micronesia, or Hong Kong;
 - e. "Subcontinent Asian American," which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka;
 - f. Women;
3. Only those persons whose personal net worth does not exceed \$750,000 may be found to be economically disadvantaged.

B. DBE/MBE and Good Faith Effort Requirements

1. This contract includes a DBE participation goal for subcontracting and/or procurement of materials and/or services. Bidders (or offerors) must make a good faith effort to meet the DBE participation goal **before bids or proposals are due**, including outreach efforts. A bid or initial proposal must include both a completed and executed Certified DBE Utilization and Fair Solicitation Affidavit and DBE Participation Schedule. The failure of a bidder to complete and submit these documents shall result in a determination that the bid is not responsive. The failure of an offeror to complete and submit these documents shall result in a determination that the proposal is not susceptible of being selected for award.
2. In making a good faith effort to achieve the DBE goal, prior to completing the Certified DBE Utilization and Fair Solicitation Affidavit and the DBE Participation Schedule and prior to submitting a bid or initial proposal the bidders (or offerors) including those bidders or offerors that are certified DBEs must:
 - a. Identify specific work categories within the scope of the procurement appropriate for subcontracting and/or procurement of materials and/or services;
 - b. **Solicit DBEs in writing at least 10 days before bids or initial proposals are due**, describing the identified work categories and providing instructions on how to bid on the subcontracts and/or procurement of materials and/or services;



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- c. Attempt to make personal contact with the DBEs solicited and to document these attempts;
 - d. Assist DBEs to fulfill, or to seek waiver of, bonding requirements; and
 - e. Attend prebid or other meetings the procurement agency schedules to publicize contracting opportunities to DBEs.
3. All firms bidding on a Federal-Aid Contract shall submit the name and address of all subcontractors, service providers and suppliers that submitted quotes on the Contract. All subcontractors, service providers and suppliers shall complete and submit the form entitled Contractor Information, to the Administration.
4. The bidder shall seek commitments from disadvantaged business enterprises by subcontracting and/or procurement of materials and/or services, the combined value of which equals or exceeds the appropriate percent (goal) of the total value of the prime contract. A bidder may count toward its DBE goals expenditures for materials and supplies obtained from DBE regular dealers and/or manufacturers provided that the DBEs assume the actual and contractual responsibility for the provision of the materials and supplies. The bidder may count its entire expenditure to a DBE manufacturer (i.e., a supplier that produces goods from raw materials or substantially alters them before resale). The bidder may count sixty (60) percent of its expenditures to a DBE regular dealer that is not a manufacturer, provided that the DBE supplier performs a commercially useful function in the supply process. The apparent low bidder shall submit to the Administration, within ten (10) business days after notification that it is the apparent low bidder, an acceptable Affirmative Action Plan for the utilization of Disadvantaged Business Enterprises in this Contract. The Contract will not be awarded without the Bidder's AAP being approved by the Administration.

The Affirmative Action Plan shall include as a minimum:

- a. The name of an employee designated as the bidder's liaison officer for minority affairs.
- b. A complete DBE Subcontractor Project Participation Affidavit (MDOT-OP-019-2), using contractors whose names appear in the DBE/MBE directory or who are otherwise certified by MDOT as being a disadvantaged business enterprise. Except as permitted by law and approved by the Administration, this affidavit shall include all DBE firms identified on the DBE Participation Schedule with a percentage of participation that meets or exceeds the percentage of participation indicated in the bid or initial proposal.
- c. A completed Outreach Efforts Compliance Statement (MDOT-OP 018-2).



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5. When a bidder intends to attain the appropriate goal for disadvantaged business enterprise participation by use of a joint venture, the bidder shall submit a Joint Venture Disclosure Affidavit (Form D-EEO-006-A) showing the extent of disadvantaged business participation. If a bidder intends to use a joint venture as a subcontractor to meet its goal, the affidavit shall be submitted through the bidder by the proposed subcontractor and be signed by all parties. A DBE, even in a joint venture arrangement shall be certified as a DBE by MDOT prior to being included in the Affirmative Action Plan.
6. Where the proposed DBE participation does not meet the DBE contract goals, sufficient evidence to demonstrate that the bidder has taken all necessary and reasonable steps to make a good faith effort to meet these goals shall be required.

7. Determination of Bid Responsiveness for Federal-Aid Contracts

If the bidder is unable to secure from DBEs by subcontracting and/or by procurement of materials and/or services, commitments which at least equal the appropriate percent (goal) of the values of the prime Contract at the time of bid, he shall request, in writing, a waiver of the unmet portion of the goal. This request must be initiated by checking the appropriate box on the Certified DBE Utilization and Fair Solicitation Affidavit submitted with the bid or initial proposal.

The waiver may be granted by the Administrator. To obtain approval of a waiver, the bidder shall submit the following information:

- a. A detailed statement of efforts made prior to bid to contact and negotiate with DBEs including: (i) the dates, names, addresses, and telephone numbers of DBEs who were contacted; (ii) a description of the information provided to DBEs requesting the plans, specifications, and anticipated time schedule for portions of the work to be performed and (iii) a detailed statement of the reasons why additional prospective agreements with DBEs were not reached;
 - b. A detailed statement of the efforts made to select portions of the work proposed to be performed by DBEs in order to increase the likelihood of achieving the stated goals;
 - c. For each DBE that the Contractor considers not qualified, but from which a bid has been received, a detailed statement of the reasons for the bidder's conclusion; and
 - d. For each DBE contacted but unavailable, (i) a Minority Contractor Unavailability Certificate (Form OOC46) signed by the disadvantaged business enterprise, or (ii) a statement from the bidder shall be submitted that states that the DBE refused to sign the Certificate.
- 8. Guidance concerning good faith efforts.** The following is a list of the types of actions and factors that will be used to determine the bidder's or offeror's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.



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- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
- (2) Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the bidder or offeror might otherwise prefer to perform these work items with its own forces.
- (3) Providing interested DBEs 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) (a) Negotiating in good faith with interested DBEs. It is the bidder's or offeror's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation.

(b) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE 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 is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders and offerors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- (5) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.
- (6) Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.



- (7) Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using 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 DBEs.
- (9) In determining whether a bidder or offeror has made good faith efforts, you may take into account the performance of other bidders or offerors in meeting the contract goal. For example, when the apparent successful bidder or offeror fails to meet the contract goal, but others meet it, the Administration may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder or offeror could have met the goal. If the apparent successful bidder or offeror fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders or offerors, the Administration may view this, in conjunction with other factors, as evidence of the apparent successful bidder or offeror having made good faith efforts.

9. Bidder Use of MBE Special Services

The bidder shall consider, whenever possible, utilizing the services of minority-owned banks. Most minority banks are full-service corporations that can provide an array of financial services such as Treasury and Tax Loan fund accounts, time and demand deposit accounts, payroll services, and if needed, organization investment counseling.

10. Bidder Records

The bidder shall maintain records showing actions which have been taken to comply with procedures set forth herein.

11. Bidder Cooperation

The bidder shall cooperate with the Administration Representative in any reviews of the Contractor's procedures and practices with respect to DBEs which the Administration Representative may from time to time conduct.

12. Bidder MBE Modifications

During the life of the Contract, all plans to modify the approved DBE participation program will require the approval of the Administrator or his authorized representative. This shall include any changes to the items of work to be sublet or materials and services to be obtained which differ for those in the original DBE participation program. Any such request for revisions shall be directed to the appropriate District Engineer for their disposition.



C. RECORDS AND REPORTS

1. The Contractor shall keep such records as are necessary to determine compliance with its Minority Business Enterprise utilization obligations. The records kept by the Contractor shall be designed to indicate:
 - a. The name of disadvantaged and non-disadvantaged subcontractors and suppliers, the type of work materials or services being performed on or incorporated in this project, and the monetary value of such work materials or services.
 - b. Documentation of all correspondence, contacts, telephone calls, etc., to obtain the services of disadvantaged business enterprises on this project.
 - c. The progress and efforts made in seeking out disadvantaged contractor organizations and individual disadvantaged contractors for work on this project.
2. Information required to be submitted for Federally Assisted contracts in accordance with 49 CFR Part 26:
 - a. All bidders (not only the apparent successful bidder) shall provide the following information:
 - (1) The age of the bidding firm; and
 - (2) The annual gross receipts of the bidding firm.
 - b. All bidders (not only the apparent successful bidder) shall provide the following information for each firm quoting or considered as subcontractors:
 - (1) The name of firm; and
 - (2) The address of firm.
 - c. The Administration will contact each of the firms quoting or considered as subcontractors to obtain:
 - (1) The age of the firm; and
 - (2) The annual gross receipts of the firm

If this information already has been gathered by the Administration on a firm and it is current, it will not be requested.

3. The Contractor shall submit reports on a quarterly basis of those contracts and other business transactions executed with disadvantaged business enterprises with respect to the records referred to in Subparagraph 1.a above, in such form, manner, and content as prescribed by the Administration. The quarterly reports shall be due on the 15th calendar day of January, April, July, and October. If the Contractor cannot submit their report on time, they shall notify the Administration's Representative and request additional time to submit the report. Failure of the Contractor to report in a timely manner may result in a finding of noncompliance. Additional reports may be required by the Administration upon written request.



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DBE FOR FEDERAL-AID CONTRACTS

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4. To ensure compliance with the certified DBE contract participation goals, the Contractor shall:
 - a. Submit monthly, a report listing unpaid invoices, over 30 days, from all certified DBE subcontractors and the reason payment has not been made;
 - b. Include in its agreement with certified DBE subcontractors a requirement that the DBE subcontractors are to submit monthly to the Administration, a report identifying the prime Contractor and listing the following:
 1. Payment received from the Contractor in the preceding 30 days; and
 2. Invoices for which the subcontractor has not been paid.
5. All such records shall be retained for a period of three years following acceptance of final payment and shall be available for inspection by the U.S. Department of Transportation, the Maryland Department of Transportation, and the Administration.

D. ADMINISTRATIVE PROCEDURES FOR ENFORCEMENT

1. Whenever the Administration believes the prime Contractor or any subcontractor may not be operating in compliance with the terms of these provisions, the Administration Representative will conduct an investigation. If the Administration Representative finds the prime Contractor or any subcontractor not in compliance with these provisions, he will make a report of non-compliance and notify such Contractor in writing of the steps that will, in the judgment of the Administration, bring the Contractor into compliance. If the Contractor fails or refuses to comply fully with such steps, the Administration Representative will make a final report of noncompliance to the Administrator, who may direct the imposition of one or more of the sanctions listed below:
 - a. Suspension of work on a project, pending correction;
 - b. Withholding payment or a percentage thereof, pending correction;
 - c. Referral of DBE/MBE to MDOT Office of MBE for review for decertification or minority business fraud investigation;
 - d. Referral to MDOT Office of MBE for review/referral to the Attorney General's Office for review for initiation of debarment;
 - e. Referral to the Attorney General's Office for review for debarment or for criminal prosecution through the MDOT Office of General Counsel; or
 - f. Any other action as appropriate.

The Administrator will determine which sanction(s) should be imposed in order to promote the purpose of the MDOT DBE/MBE Program.

2. If the documents used to determine the status of a DBE contain false, misleading, or misrepresenting information, the matter may be referred to the MDOT Office of MBE for appropriate action.



3. Loss of DBE Certification

- a.** When a prime Contractor has made a commitment to use a DBE who has lost its certification but the subcontract has not been executed prior to the notice of loss of certification, the prime Contractor is required to obtain an eligible, certified DBE for the contract or demonstrate to MDOT that it has made a good faith effort to do so.
- b.** When a prime Contractor has executed a contract with a DBE subcontractor before the notice of loss of certification, the prime Contractor may continue to use the firm on the contract and may continue to receive credit towards its DBE goal, i.e., contract goal, for the work of that subcontractor.
- c.** The work carried out by a DBE Prime Contractor would be counted by MDOT up to the loss of certification. The work performed after the loss of certification would not be considered DBE participation.
- d.** When a DBE subcontractor has lost its certification, MDOT may not continue to count the DBE participation which takes place after the loss of certification as DBE work when counting participation towards the overall goal of the modal administration or the Department.
- e.** If a DBE's loss of certification is the result of exceeding the size standards while performing on a contract, the DBE participation may be counted for both the contract goal and the overall goal.



MBE/DBE COMPLIANCE FIELD MEETING

A MBE/DBE compliance Field Meeting will be conducted to review the responsibilities of the Administration and the Contractor's personnel relative to MBE/DBE Compliance and documentation. The meeting will be held within two weeks after starting work on the project.

The Construction Project Engineer, who will notify the following of the date, time and location, will arrange the meeting. At least one week advanced notice will be required.

(a) Administrative Representatives.

- (1) Director, Office of Equal Opportunity or Designee
- (2) District Equal Opportunity Officer
- (3) Regional Constructional Engineer
- (4) Construction Project Engineer
- (5) Construction Inspection Division Inspector

(b) Contract Representatives.

- (1) Superintendent - Prime Contractor
- (2) Equal Opportunity Officer - Prime Contractor
- (3) Owner/Superintendent/Foreman MBE/ DBE - Subcontractor

The Construction Project Engineer and Equal Opportunity Representative will jointly conduct the meeting. The Contractor shall notify the appropriate subcontractors and ensure their attendance.



CONTRACT PROVISIONS
TRAFFIC CONTROL PLAN CERTIFICATION

CONTRACT NO. MO4505168
FAP NO. ES-495-2(276)N
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TRAFFIC CONTROL PLAN CERTIFICATION

PRIOR TO THE COMMENCEMENT OF WORK ON THIS PROJECT, THE SUCCESSFUL BIDDER WILL BE REQUIRED TO COMPLETE A TRAFFIC CONTROL PLAN CERTIFICATION, CONTAINING THE INFORMATION SHOWN BELOW. THE CERTIFICATION FORM WILL BE PROVIDED TO THE SUCCESSFUL BIDDER UPON AWARD OF THE CONTRACT.

The Administration's Traffic Control Plan (TCP) has been reviewed and the following course of action shall be followed:

Option 1 _____

The TCP is accepted and shall be used on this project.

Option 2 _____

The TCP is accepted; however, revisions and/or additions shall be submitted for approval in conformance with the Administration's Specifications 104.01.

Option 3 _____

The TCP is not accepted and revision shall be submitted for approval in accordance with the Administration's Specifications 104.01.

It is understood that the effective implementation of the approved TCP is the responsibility of the Contractor. Minor modifications may be made by the Traffic Manager if field conditions warrant and prior concurrence is obtained from the Engineer. Significant changes to the TCP will be submitted to the Engineer in writing, for approval, in conformance with the Administration's Specifications 104.01.

(DATE)

(SIGNATURE)

(PRINT SIGNATURE)

(TITLE)



**PREVAILING WAGE
INSTRUCTIONS FOR THE CONTRACTOR**

PAYROLLS.

Non-Federally Funded Contracts. For Non-Federally funded projects, which include prevailing wage rates, the prime Contractor and each subcontractor shall submit two copies of their payroll records. One copy shall be submitted to the Project Engineer and one shall be sent to the Maryland State Commissioner of Labor & Industry, Room 607, 1100 N. Eutaw Street, Baltimore, MD 21201, where they will be available for inspection during business hours. All wages shall be paid in conformance with the State Finance and Procurement Article, Section 17-201-17-226 of the Annotated Code of Maryland and the Fair Labor Standards Amendments of 1974 (P.L. 93259). If the award amount of a Non-Federally funded job is less than \$500,000, the project will be exempt from prevailing wage requirements.

A review has been made of the wage conditions in the locality and, based on the information available, the wage rates and fringe payments listed are determined by the Commissioner of the Department of Labor and Industry to be prevailing for the Contract for the described classes of labor in conformance with the law. It shall be the responsibility of the Contractor to fully comply with the law and to contact the Office of the Commissioner of Labor and Industry for interpretation of the provisions of the law.

Federally Funded Contracts. For Federally funded projects, the prime Contractor and each subcontractor shall submit one copy of the certified payroll to the Project Engineer.

General Requirements for Federally and Non-Federally Funded Contracts. All payrolls are subject to the following requirements:

- (a) All payrolls shall be numbered, beginning at No. 1, and consecutively numbered through the end of the Contract.
- (b) Contract and FAP numbers shall be shown on all payrolls (as applicable).
- (c) All payrolls shall include the employees' full name, classification, social security number, and home address.
- (d) All payrolls shall show the employee's basic hourly wage rate, overtime rate (if applicable), and the number of hours worked (tabulated both daily and weekly).
- (e) When fringe benefits are required, indicate separately the amount of employer contributions to fringe benefit funds and/or programs. The fringe benefits shall be individually identified, but may be tabulated on a separate sheet. When required fringe benefits are paid in cash, add the required fringe benefit amount to the basic hourly rate to obtain the total prevailing wage rate for the employee.



CONTRACT PROVISIONS
PREVAILING WAGE INSTRUCTIONS

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- (f) The employee's net pay and the itemized deductions shall be included in all payrolls.
- (g) A Contractor may make deductions that are required by law or required by a collective bargaining agreement (between the Contractor and a bona fide labor organization). Deductions are also permitted if they are identified in a written agreement between the employee and employer that was made at the beginning of employment, provided that the Contractor presents the agreement to the Administration before the employee begins working on the Contract. Each payroll shall also include the U.S. Department of Labor and Hour Public Contracts Division Statement of Compliance Form WH-347 (or its equivalent), signed by an appropriate official of the Contractor/subcontractor. The Contractor's name, address, and telephone number shall also to be shown.
- (h) On Non-Federally funded projects, all apprentices shall be registered with the Maryland Apprenticeship and Training Council.
- (i) Contractors employing a classification of worker for which a wage rate was not included on the original wage decision, shall submit to the Wage and Hour Team, a request for an additional classification and rate prior to the employee's employment at the project.
- (j) Payrolls for Non-Federally Funded projects shall be submitted within 14 calendar days after the end of each payroll period.
- (k) Payrolls for Federally Funded projects shall be submitted within 7 calendar days after the end of each payroll period.

OVERTIME.

Non-Federally Funded Contracts. Overtime rates shall be paid by the prime Contractors and subcontractors under their Contracts and agreements with their employees, which in no event shall be less than time and a half the prevailing hourly rate of wages for all hours worked in excess of ten hours in any one calendar day or forty hours in any one calendar week and work performed on Sundays and legal holidays. Fringe benefits shall be paid for all hours worked, including the overtime hours. However, the fringe benefit amounts may be excluded from the half time premium due as overtime compensation.

Federally Funded Contracts. Overtime rates shall be paid as specified in Form FHWA 1273. Fringe benefits shall be paid for all hours worked, including the overtime hours. However, the fringe benefit amounts may be excluded from the half time premium due as overtime compensation.



CONTRACT PROVISIONS
PREVAILING WAGE INSTRUCTIONS

CONTRACT NO. MO4505168
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PENALTIES.

Non-Federally Funded Contracts. When the Contractor is delinquent in submitting payroll records, processing of partial payment estimates will be held in abeyance, pending receipt of the records. The Contractor shall be liable to the Administration for liquidated damages in the amount of \$10.00 for each calendar day the records are late.

The Contractor shall be liable to the Administration for liquidated damages in the amount of \$20.00 for each day that an employee is paid less than the prevailing wage.

Federally Funded Contracts. When the Contractor is delinquent in submitting payroll records, processing of partial payment estimates will be held in abeyance pending receipt of the records.

INQUIRIES.

Requests for information or questions shall be addressed to:

Maryland State Highway Administration
Office of Highway Development
Wage and Hour Team
707 N. Calvert Streets, MS C-102
Baltimore MD 21203-0717
Fax: 410-209-5001

WAIS Document Retrieval
GENERAL DECISION: MD20080016 05/30/2008 MD16

Date: May 30, 2008
General Decision Number: MD20080016 05/30/2008

Superseded General Decision Number: MD20070016

State: Maryland

Construction Type: Highway

Counties: Montgomery and Prince George's Counties in Maryland.

HIGHWAY CONSTRUCTION PROJECTS (Excluding tunnels, building structures in rest area projects and railroad construction; bascule, suspension and spandrel arch bridges; bridges designed for commercial navigation; bridges involving marine construction; and other major bridges)

Modification Number	Publication Date
0	02/08/2008
1	05/02/2008
2	05/09/2008
3	05/30/2008

CARP0132-002 05/01/2008

	Rates	Fringes
Piledriver.....	\$ 23.87	7.10

ELEC0070-004 05/05/2008

	Rates	Fringes
Street Lights, Traffic Signal and Traffic Signal Controls		
Groundmen.....	\$ 8.47	8.75%+4.75
Street Light Traffic Control Technician.....	\$ 19.48	8.75%+4.75

* ENGI0077-013 05/01/2008

	Rates	Fringes
Power equipment operators:		
Cranes (35 tons and above)...	\$ 28.74	7.17+a
Cranes (Under 35 tons).....	\$ 28.28	7.17+a
Mechanics.....	\$ 30.11	7.17+a

a. PAID HOLIDAYS: New Year's Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther Kings Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day.

IRON0201-003 05/01/2008

	Rates	Fringes
Ironworker (Reinforcing).....	\$ 26.15	12.08

 SUMD2003-001 01/02/2003

	Rates	Fringes
Carpenters (Including Formsetting).....	\$ 16.15	
Cement Mason/Finisher.....	\$ 15.11	
Electricians.....	\$ 27.33	4.94
Ironworkers, Structural.....	\$ 20.85	
Laborers:		
Air Tool Operators.....	\$ 11.35	
Asphalt Rakers/Luteman.....	\$ 13.05	
Concrete Saw.....	\$ 18.13	
Flagger/Traffic Control.....	\$ 12.60	
Landscape.....	\$ 10.05	
Mason Tender, Cement.....	\$ 11.93	
Pavement Marker.....	\$ 13.17	
Pipelayers.....	\$ 11.79	
Screed.....	\$ 14.46	
Unskilled.....	\$ 11.20	
Painters, Brush and Roller.....	\$ 23.00	
Power equipment operators:		
Asphalt Distributor.....	\$ 14.45	
Backhoes.....	\$ 17.46	
Bobcats.....	\$ 15.51	
Bulldozers.....	\$ 17.46	
Excavators.....	\$ 18.97	
Gradalls.....	\$ 18.03	2.76
Loaders.....	\$ 15.14	
Milling Machine.....	\$ 15.43	
Oilers.....	\$ 15.05	2.98
Pavers.....	\$ 15.70	2.35
Rollers.....	\$ 13.92	
Screed.....	\$ 14.90	
Sideman.....	\$ 11.17	
Sweeper.....	\$ 12.59	
Truck drivers:		
Dump.....	\$ 13.45	
Tack.....	\$ 15.28	
Water.....	\$ 12.72	

 TEAM0639-006 03/07/2004

	Rates	Fringes
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Truck drivers:
Boom Truck

Two Axle/Tandem.....\$ 16.00 5.82+a

a. VACATION: Employees will receive one (1) week's paid vacation after one (1) year of service.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



CONTRACT PROVISIONS
NOTICE OF ACTIONS FOR AFFIRMATIVE ACTION

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**NOTICE OF ACTIONS REQUIRED FOR AFFIRMATIVE ACTION TO
ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidders attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as noted in Appendix A and B:

These goals are applicable to all the Contractors' construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this notification. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is noted on appendix B.

**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS (Executive Order 11246)**

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;



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- c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
- d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original people of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and,
 - (iv) American Indians or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7.a through 7.p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goal in each craft during the period specified.
- 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.



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6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7.b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the



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policy with all management personnel and with all minority and female employees at least once a year and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

- g.** Review, at least annually, the company's EEO Policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h.** Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i.** Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j.** Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k.** Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l.** Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m.** Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to insure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n.** Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o.** Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.



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- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7.a through 7.p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7.a through 7.p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's non-compliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractors shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and



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retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents

(a.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

16. The Contractor will receive at the time of Award Federal Form CC-257 for his use in reporting monthly the Affirmative Actions for minority and female which he has employed.



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APPENDIX A

The following goals and timetables for female utilization shall be included in all Federal and federally assisted construction contracts and subcontracts in excess of \$10,000. The goals are applicable to the Contractor's aggregate on-site construction work force whether or not part of that work force is performing on a Federal or federally assisted construction contract or subcontract.

AREA COVERED: Nationwide

GOALS AND TIMETABLES

Timetable	Goals (percent)
From April 1, 1978 until March 31, 1979.....	3.1
From April 1, 1979 until March 31, 1980.....	5.0
From April 1, 1980 until further notice.....	6.9



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APPENDIX B

Until further notice, the following goals for minority utilization in each construction craft and trade shall be included in all Federal or federally assisted construction contracts and subcontracts in excess of \$10,000 to be performed in the respective geographical areas. The goals are applicable to each nonexempt contractor's total on-site construction work force, regardless of whether or not part of that work force is performing work on a Federal, federally assisted or nonfederally related project, contract or subcontract.

Construction contractors which are participating in an approved Hometown Plan (see 41 CFR 60-4.5) are required to comply with the goals of the Hometown Plan with regard to construction work they perform in the area covered by the Hometown Plan. With regard to all their other covered construction work such contractors are required to comply with the applicable SMSA or EA goal contained in this appendix B-80.

State	Goal (percent)
Maryland:	
019 Baltimore, MD:	
SMSA Counties:	
0720 Baltimore, MD.....	23.0
MD Anne Arundel; MD Baltimore; MD Carroll; MD Harford; MD Howard; MD Baltimore City	
Non-SMSA Counties.....	23.6
MD Caroline; MD Dorchester; MD Kent; MD Queen Annes; MD Somerset; MD Talbot; MD Wicomico; MD Worcester	
Washington, DC:	
020 Washington, DC:	
SMSA Counties:	
8840 Washington, DC.....	28.0
MD Charles; MD Montgomery; MD Prince Georges	
Non-SMSA Counties.....	25.2
MD Calvert; MD Frederick MD St. Marys; MD Washington	
Pennsylvania	
Non-SMSA Counties.....	4.8
MD Allegany; MD Garrett	



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TRAINING PROVISIONS

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TRAINING PROVISIONS

As part of the Contract's Equal Employment Opportunity Affirmative Action Program, on-the-job training shall be provided as follows:

The on-the-job training shall be aimed at developing full journeypersons in the type of trade or job classification involved. On this Contract **ZERO** persons will be trained.

In the event that a Contractor subcontracts a portion of the Contract work, the Contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor, however, the Contractor shall retain the primary responsibility for meeting the training requirements imposed by this Provision. The Contractor shall also insure that this training Provision is physically included in each subcontract to insure that the workforce utilized by the subcontractor meet the goals for minority and female employment and training. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees in each classification shall be distributed among the work classifications on the basis of the Contractor's needs, minority and women employment goals specified for each trade in the Contract Provision, and the reasonable area of recruitment.

Prior to beginning construction, the Contractor shall submit to the Administration for approval a Manpower and Training Utilization (MTU) Schedule no later than at the preconstruction meeting.

The MTU schedule shall include:

1. The proposed training programs.
2. The number of trainees to be trained in each classification.
3. Anticipated starting and ending dates for training in each classification.

No Contract work may be undertaken until the Administration has accepted the schedule.

If the submitted training programs fail to meet the requirements as defined within these Provisions, the Administration will withhold one percent of the total category code one pay items from the payment due the Contractor. The Contractor shall submit a revised Manpower and Training Utilization Schedule when major changes in the Contract work schedule occur that substantially affect the previously submitted schedule.

The Contractor shall be credited for each trainee employee who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for the hourly cost of the trainee as specified in the schedule of prices.

Training and upgrading of minorities and women toward journeyman status is a primary objective of this Training Provision. The purpose for this objective is to insure a pool of qualified minorities and women to replace those journeypersons who, in the natural course of events will leave the workforce. The program will also provide opportunities to the minorities and women trainees in geographic areas where shortages in minority and women journeypersons are prevalent and recognized due to the Contractor's inability to meet the Equal Employment Opportunity goals specified in this Contract.

The training requirements of this Training Provision are not intended nor shall they be used to discriminate against any applicant for training, whether a member of a protected class or not. It is



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the Contractor's responsibility to demonstrate good faith efforts to ensure an adequate workforce representation of minorities and women in all job classifications on this Contract. Therefore, the Contractor shall consider the employment Contract goals set for minorities and females when enrolling trainees. The Contractor's utilization of the on-the-job training goals will be weighed when an Equal Employment Opportunity workforce compliance determination is made.

The Contractor shall make every effort to enroll minority and women trainees (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minorities and women to the extent that these persons are available within a reasonable area of recruitment).

No employee shall be employed as a trainee in any classification which the individual has successfully completed a training program leading to journeyperson status or has been employed as a journeyperson. This includes a person gainfully employed as a journeyperson by virtue of informal on-the-job training. The Contractor should satisfy this requirement by including appropriate questions in the employee job application or by other suitable means. Regardless of the method used, the Contractor's records shall document the findings in each case. In the case of apprentices, evidence of indentureship and registration of the approved apprenticeship program shall be included in the Contractor's records.

The minimum length and type of training and rate for each classification shall be specified in the training program by the Contractor and approved by the Administration and the Federal Highway Administration.

The Administration will approve any program specified in the Administration's On-The-Job Training Manual. The Administration and the Federal Highway Administration will consider other programs if it is reasonably calculated that the programs conform to the Equal Employment Opportunity obligations of the Contract and will qualify the average trainee for journeyperson status in the specified classification by the end of the training period. Apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, and training programs approved by, but not necessarily sponsored by the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training will also be acceptable, provided that the program being offered is administered in a manner consistent with the Equal Employment obligation of Federal-aid highway construction Contracts and meets the minimum requirements of this Training Provision.

Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Unless otherwise specified, the Contractor will be reimbursed 80 cents per hour of training given an employee on this Contract in conformance with an approved training program. As approved by the Engineer, reimbursement will be made for training persons in excess of the number specified herein. This reimbursement will be made even though the Contractor received additional training program funds from other sources, provided that the other sources do not specifically prohibit the Contractor from receiving other reimbursement. Reimbursement for offsite training indicated above will only be made to the Contractor where the Contractor does one or more of the following and the trainees are concurrently employed on a Federal-aid project:



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1. Contributes to the cost of the training.
2. Provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment will be made to the Contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman is caused by the Contractor and evidences a lack of "good faith" on the part of the Contractor in meeting the requirements of this Training Provision. It is normally expected that a trainee will begin training on the project as soon as feasible after the start of work utilizing the skill involved and remain on the project as long as training opportunities exist in the work classification or until the program is completed. It is not required that all trainees be on board for the entire length of the Contract. A Contractor will have fulfilled their responsibilities under this Training Provision when:

1. Systematic and direct recruitment likely to yield qualified minority and women applicants is conducted through:
 - a. Public and private referral sources.
 - b. Advising the existing workforce of training opportunities.
 - c. Unions (if applicable).
2. Acceptable training has been provided to trainees enrolled in the program.
3. The number of specified trainees have completed the minimum hours required in an approved training program.
4. Trainees completing approved programs are retained in the workforce as journeymen.

The Contractor shall pay the trainees at least 60 percent of the appropriate minimum journeyman's hourly rate plus the full fringe benefits specified in the Contract for the first half of the training period, 75 percent for the third quarter of the training period plus full fringe benefits, and 90 percent for the last quarter of the training period plus full fringe benefits. However, in no case shall the total hourly rate be less than the U.S. Department of Labor's unskilled laborer wage rate for the project. In addition, all trainees shall be identified as such on the certified payroll.

The Contractor shall furnish the trainee a copy of the approved training program in which the trainee is enrolled. The Contractor shall provide each trainee with a certificate showing the type and length of training satisfactorily completed. The Contractor shall submit a Certificate to the trainee in the following instances:

1. Certificate of Completion when a trainee completes the total number of hours required to complete a training program.
2. Certificate of Training when a trainee does not totally complete the required program hours.

The Contractor shall provide for the maintenance of records and furnish periodic reports inclusive of the Administration's Contractor's Semiannual Training Reports, documenting his performance under this Training Provision. The Semiannual Training Report is to be submitted by the 10th of the month following the reporting period (July 10 and January 10).



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If the Contractor fails to fully comply with these Training Provisions, the Administration's Representative will make a final report of non compliance to the Administrator, who may direct the imposition of one or both of the sanctions listed below:

1. Withholding a percentage of the progress payment.
2. Other action appropriate and/or within the discretion of the Administrator.



NOTICE TO ALL HOLDERS OF THIS CONTRACT DOCUMENT

HIGH VISIBILITY SAFETY APPAREL POLICY

BACKGROUND. Research indicates that high visibility garments have a significant impact on the safety of employees who work on highways and rights-of-way. In addition, high visibility garments may help to prevent injuries and accidents and to make highway workers more visible to the motoring public, which ultimately improves traffic safety.

STATEMENT OF POLICY.

- (a) The High Visibility Safety Apparel Policy provides a standardized apparel program.
- (b) The program seeks to improve the visibility of all persons who work on Administration highways and rights-of-way.
- (c) All apparel shall contain the appropriate class identification label.
- (d) Compliance with this policy is retroactive and becomes effective immediately. All affected employees shall receive high visibility apparel awareness training.

APPLICABILITY. This policy applies to all Administration employees and all other persons who work on Administration highways and rights-of-way. All workers shall wear, at a minimum, Class 2 ANSI/ISEA 107/2004 apparel.

- (a) For Administration employees, this apparel shall have a fluorescent yellow-green background material color and be the outermost garment worn.
- (b) Retro-reflective material color for Administration employee apparel shall be silver or white and be visible at a minimum distance of 1,000 feet. The retro-reflective safety apparel shall be designed to clearly recognize and differentiate the wearer from the surrounding work environment. The retro-reflective material may be contrasted by fluorescent orange background material not exceeding one and one half inches on either side of the retro-reflective material.
- (c) For non-Administration employees, this apparel shall be either fluorescent orange-red or fluorescent yellow-green background material color and be the outermost garment worn.
- (d) Retro-reflective material color for non-Administration employee apparel shall either be orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and be visible at a minimum distance of 1,000 feet. The retro-reflective safety apparel shall be designed to clearly recognize and differentiate the wearer from the surrounding work environment.



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HIGH VISIBILITY SAFETY APPAREL POLICY

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REFERENCES.

- (a) ANSI/ISEA 107/2004 standard – American National Safety Institute/International Safety Equipment Association
- (b) MUTCD 2003 – Manual for Uniform Traffic Control Devices - Sections 6D.03B and 6E.02
- (c) Visibility Research – The VCTR 1989 report concludes that fluorescent colors, when compared with non-fluorescent colors, enhance the daytime conspicuity of worker clothing.

DEFINITIONS.

- (a) Apparel – The outermost high-visibility garment worn by employees who work on Administration highways and rights-of-way.
- (b) Highways – All roads owned by the Maryland Department of Transportation and maintained by the Administration.
- (c) High Visibility – The ability for workers to be distinguishable as human forms to be seen, day and night, at distances that allow equipment operators and motorists to see, recognize, and respond.

PROJECT DESCRIPTION

This project, located in Montgomery County, involves safety and resurfacing improvements on I-495 (Capital Beltway) from Potomac River to I-270 (Eisenhower Memorial Highway), a distance of approximately 3.68 miles. This project will also include the resurfacing of ramps within the MD 190 (River Road) and Clara Barton parkway interchange.

The work shall consist of grinding and resurfacing the existing pavement; partial depth patching; repair/replacing existing inlets; pipe cleaning; repair/replacing traffic barrier W beam to meet current standards; replacement of damaged or deteriorated curb and gutter; striping and MOT.

SPECIFICATIONS

All work on this project shall conform to the Maryland Department of Transportation, State Highway Administration's Specifications entitled, "Standard Specifications for Construction and Materials" dated July 2008 revisions thereof, or additions thereto, and the Special Provisions included in this Invitation for Bids.

EMPLOYMENT AGENCY

The Maryland Department of Labor, licensing & regulation (DLLR), Division of Employment & Training, can be found on the web at; <http://www.careernet.state.md.us/local.htm> or is located at:

Montgomery County One Stop Center
Lake Forest Mall 2nd Floor
701 Russell Avenue Suite E205
Gaithersburg MD20877
Phone: (301)-519-8253
Fax: (301)-519-8259
Fax: (301)-929-4375

Montgomery County One Stop Center
Westfield Shopping Center
11002 Veirs Mills Rd. S. Bldg. 1st Floor
South Office Building- Suite 100
Wheaton MD20902
Phone: (301)-929-4350

PROJECT DESCRIPTION

This portion of the project involves the replacement of the detection devices for an Automatic Traffic Recording (ATR) station (#0040) on I-495 at Persimmon Tree Rd in Montgomery County.

The replacement of ATRs will involve the installation of 6' x 6' loop detectors, Class II piezo sensors, and 1" liquid tight flexible non-metallic electrical conduit .

The following is a breakdown of the loop detectors and piezo sensors that must be replaced due to the resurfacing of I-495.

- Westbound I-495 detector loops (8 – 6' x 6')
- Westbound I-495 piezo sensor (4)
- Eastbound I-495 detector loops (8 – 6' x 6')
- Eastbound I-495 piezo sensor (4)

EQUIPMENT LIST

B. Equipment to be furnished and installed by the Contractor.

<u>Item No.</u>	<u>Quantity</u>	<u>Spec. Section</u>	<u>Description</u>
805160	144 L.F.	805	1" liquid tight flexible non-metallic electrical conduit sleeve for detector wire
861104	1900 L.F.	810	Electrical cable – 2 conductor (Aluminum Shielded) Lead-in
862101	2000 L.F.	810	Loop detector wire encased in flexible tubing
862102	800 L.F.	815	Sawcut
800000	2 Each		11 foot Class II Piezo sensor w/ 300' lead-in wire
800000	4 Each		11 foot Class II Piezo sensor w/200' lead-in wire
800000	2 Each		11 foot Class II Piezo sensor w/100' lead-in wire

NOTICE TO CONTRACTOR

PROJECT SCHEDULE. Section 109 shall only apply when a CPM Project Schedule item is included in the Schedule of Prices. Otherwise, all Project Schedules shall conform to Section 110.

NOTICE TO BIDDERS. The Proposal Form Packet in this Invitation for Bids requires the following information be submitted for the Bidder and each firm quoting or considered as subcontractors:

- (a) Name of firm.
- (b) Address of firm.
- (c) MBE, Non-MBE, DBE, or Non-DBE.
- (d) Age of firm.
- (e) Annual gross receipts per last calendar year.

Note that there are provisions for submitting copies for additional subcontractors, and that an "X" is required to indicate whether or not additional copies have been submitted.

AFFIRMATIVE ACTION PLAN (AAP) CONTRACT GOALS. In order to be in compliance with the revised MBE/DBE laws effective October 1, 2004 the bidder is required to complete the AAP information on pages 17, 18, 21, 22, 23, and 24 of 28 of the Contract Provisions, Proposal Form Packet—Federal, or complete the AAP information on pages 16, 17, 20, 21, 22, and 23 of 28 of the Contract Provisions, Proposal Form Packet—State, or complete the AAP information on pages 17, 18, 21, 22, 23, and 24 of 29 of the Contract Provisions, Proposal Form Packet—State Small Business Reserve Procurement. Failure to complete the information may be grounds for the bid to be declared non-responsive.

BOOK OF STANDARDS. The Book of Standards for Highway and Incidental Structures is now available only on the Administration's Internet Site at www.marylandroads.com. The Book of Standards can be located by clicking on Business with SHA; Business Standards and Specifications; and Book of Standards for Highway and Incidental Structures. Hard copies of the Book of Standards will no longer be sold in the Cashiers Office and hard copy distributions of the Standard updates will no longer be made.

PAYMENT OF STATE OBLIGATIONS. Electronic funds transfer will be used by the State to pay the Contractor for any Contract expected to exceed \$200,000 and any other State payments unless the State Comptroller's Office grants the Contractor an exemption.

Therefore, by submitting a response to this solicitation, the Bidder/Offeror agrees to accept payment by electronic funds transfer unless the State Comptroller's Office grants an exemption.

Prior to the Award of the Contract the selected Bidder/Offeror shall register using the X-10 Vendor Electronic Funds (EFT) Registration Request Form. The instructions and the form are located on the internet at compnet.comp.state.md.us/gad.

SPECIAL PROVISIONS
NOTICE TO CONTRACTOR

CONTRACT NO. MO4505168
2 of 2

Any request for exemption shall be submitted to the State Comptroller's Office at the address specified on the X-10 form and shall include the business identification information as stated on the form and include the reason for the exemption.

REQUEST FOR INFORMATION. Any information regarding the requirements or the interpretation of any provision of the Contract Documents shall be requested, in writing, and delivered prior to the scheduled date of bid opening. Responses to questions or inquiries having any material effect on the bids shall be made by written addenda sent to all prospective bidders. The Administration will not respond to telephone requests for information concerning this invitation for bids that would materially affect the bid.

Written requests for information or questions shall be addressed to:

Mr. Darrell B. Mobley
District Engineer, District 3
Attention: Kate Mazzara
9300 Kenilworth Avenue
Greenbelt, Maryland 20770
or
FAX to (301) 513-7415

Each request for information or questions shall include the Contract number and the name and address of the originator.

RIGHT-OF-WAY STATUS

All work will be completed with the existing right-of-way.

REQUIRED PERMITS

The following approval/permits are required for this project:

1. Joint Permit Application (JPA).

All required Environment Waivers/Permits are expected to be received before the scheduled Bid Opening. If approvals are not obtained by the scheduled Bid Opening date, the Bid Opening date will be delayed through the issuance of an addendum.

PAVEMENT

Quantity for patching is included in these specifications. The Project engineer shall contact the Pavement and Geotechnical Division to identify patching locations. Please contact the following:

Office of Materials and Technology
Pavement and Geotechnical Division
7450 Traffic Drive
Hanover, MD 21076
866-929-8501 or 443-572-5067

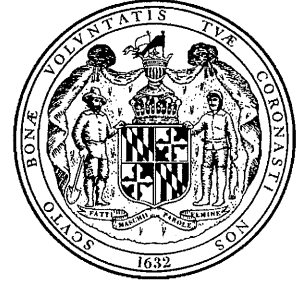
STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION
LETTER OF AUTHORIZATION

AUTHORIZATION NUMBER: 08-NT-3411/200864905

EFFECTIVE DATE: January 7, 2009

EXPIRATION DATE: January 7, 2012

AUTHORIZED PERSON: Maryland Department of Transportation
State Highway Administration
707 N. Calvert Street
Baltimore, MD 21202



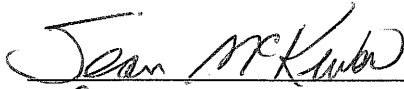
Attn: Mr. Todd Nichols

IN ACCORDANCE WITH ENVIRONMENT ARTICLE §5-503(A) AND §5-906(B), ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME), COMAR 26.17.04 AND 26.23.01, AND 26.08.02 AND THE ATTACHED CONDITIONS OF AUTHORIZATION, MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION ("AUTHORIZED PERSON"), IS HEREBY AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION ("ADMINISTRATION") TO CONDUCT A REGULATED ACTIVITY IN A NONTIDAL WETLAND, BUFFER, OR EXPANDED BUFFER, AND/OR TO CHANGE THE COURSE, CURRENT OR CROSS-SECTION OF WATERS OF THE STATE, IN ACCORDANCE WITH THE ATTACHED PLANS APPROVED BY THE ADMINISTRATION ON January 7, 2009 ("APPROVED PLAN") AND PREPARED BY MARYLAND STATE HIGHWAY ADMINISTRATION AND INCORPORATED HEREIN, AS DESCRIBED BELOW:

This approval authorizes 390,000 square feet of disturbance within the 100-year floodplain of Thomas Branch and Cabin John Creek, and 15 linear feet of impact to an unnamed tributary to Thomas Branch, in order to make surface and drainage improvements from I-495 from the Potomac River to I-270 in Montgomery County. The approved work includes grinding and resurfacing I-495 and the removal and replacement of a concrete ditch located adjacent to I-495 near MD 191. No wetlands are to be affected by the approved work.

MD Grid Coordinates: N 144718± E 384438±

SHA Contract No. MO450A21



for Amanda L. Sigillito
Division Chief
Nontidal Wetlands & Waterways Division

Attachments: Conditions of Authorization
Best Management Practices
Corps of Engineers Information Sheet, Authorization, Conditions, & Self-certification form

cc: WMA, Compliance Program w/ file

THE FOLLOWING CONDITIONS OF AUTHORIZATION APPLY TO ALL ACTIVITIES AUTHORIZED BY AUTHORIZATION NUMBER 08-NT-3411/200864905

PAGE 2 of 3

1. **Validity:** Authorization is valid only for use by Authorized Person. Authorization may be transferred only with prior written approval of the Administration. In the event of transfer, transferee agrees to comply with all terms and conditions of Authorization.
2. **Initiation of Work, Modifications and Extension of Term:** Authorized Person shall initiate authorized activities with two (2) years of the Effective Date of this Authorization or the Authorization shall expire. Authorized Person may submit written requests to the Administration for (a) extension of the period for initiation of work, (b) modification of Authorization, including the Approved Plan, or, (c) not later than 45 days prior to Expiration Date, an extension of the term. Requests for modification shall be in accordance with applicable regulations and shall state reasons for changes, and shall indicate the impacts on nontidal wetlands, streams, and the floodplain, as applicable. The Administration may grant a request at its sole discretion.
3. **Responsibility and Compliance:** Authorized Person is fully responsible for all work performed and activities authorized by this Authorization shall be performed in compliance with this Authorization and Approved Plan. Authorized Person agrees that a copy of the Authorization and Approved Plan shall be kept at the construction site and provided to its employees, agents and contractors. A person (including Authorized Person, its employees, agents or contractors) who violates or fails to comply with the terms and conditions of this Authorization, Approved Plan or an administrative order may be subject to penalties in accordance with §5-514 and §5-911, Department of the Environment Article, Annotated Code of Maryland (2007 Replacement Volume).
4. **Failure to Comply:** If Authorized Person, its employees, agents or contractors fail to comply with this Authorization or Approved Plan, the Administration may, in its discretion, issue an administrative order requiring Authorized Person, its employees, agents and contractors to cease and desist any activities which violate this Authorization, or the Administration may take any other enforcement action available to it by law, including filing civil or criminal charges.
5. **Suspension or Revocation:** Authorization may be suspended or revoked by the Administration, after notice of opportunity for a hearing, if Authorized Person: (a) submits false or inaccurate information in Permit application or subsequently required submittals; (b) deviates from the Approved Plan, specifications, terms and conditions; (c) violates, or is about to violate terms and conditions of this Authorization; (d) violates, or is about to violate, any regulation promulgated pursuant to Title 5, Department of the Environment Article, Annotated Code of Maryland as amended; (e) fails to allow authorized representatives of the Administration to enter the site of authorized activities at any reasonable time to conduct inspections and evaluations; (f) fails to comply with the requirements of an administrative action or order issued by the Administration; or (g) does not have vested rights under this Authorization and new information; changes in site conditions, or amended regulatory requirements necessitate revocation or suspension.
6. **Other Approvals:** Authorization does not authorize any injury to private property, any invasion of rights, or any infringement of federal, State or local laws or regulations, nor does it obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
7. **Site Access:** Authorized Person shall allow authorized representatives of the Administration access to the site of authorized activities during normal business hours to conduct inspections and evaluations necessary to assure compliance with this Authorization. Authorized Person shall provide necessary assistance to effectively and safely conduct such inspections and evaluations.
8. **Inspection Notification:** Authorized Person shall notify the Administration's Compliance Program at least five (5) days before starting authorized activities and five (5) days after completion. For Allegany, Garrett, and Washington counties, Authorized Person shall call 301-689-1480. For Carroll, Frederick, Howard and Montgomery counties, Authorized Person shall call 301-665-2850. For Baltimore City, Anne Arundel, Baltimore, Calvert, Charles, Prince George's and St. Mary's, Authorized Person shall call 410-537-3510. For Caroline, Cecil, Dorchester, Harford, Kent, Queen Anne's, Somerset, Talbot, Wicomico and Worcester, Authorized Person shall call 410-901-4020.
9. **Sediment Control:** Authorized Person shall obtain approval from Maryland Department of the Environment for a grading and sediment control plan specifying soil erosion control measures. The approved grading and sediment control plan shall be included in the Approved Plan, and shall be available at the construction site.

10. Federally Mandated State Authorizations:

X Water Quality Certification: Water Quality Certification is granted for this project provided that all work is performed in accordance with the authorized project description and associated conditions.

NA Coastal Zone Consistency: This Authorization constitutes official notification that authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended. Activities within the following counties are not subject to this requirement: Allegany, Carroll, Frederick, Garrett, Howard, Montgomery, and Washington.

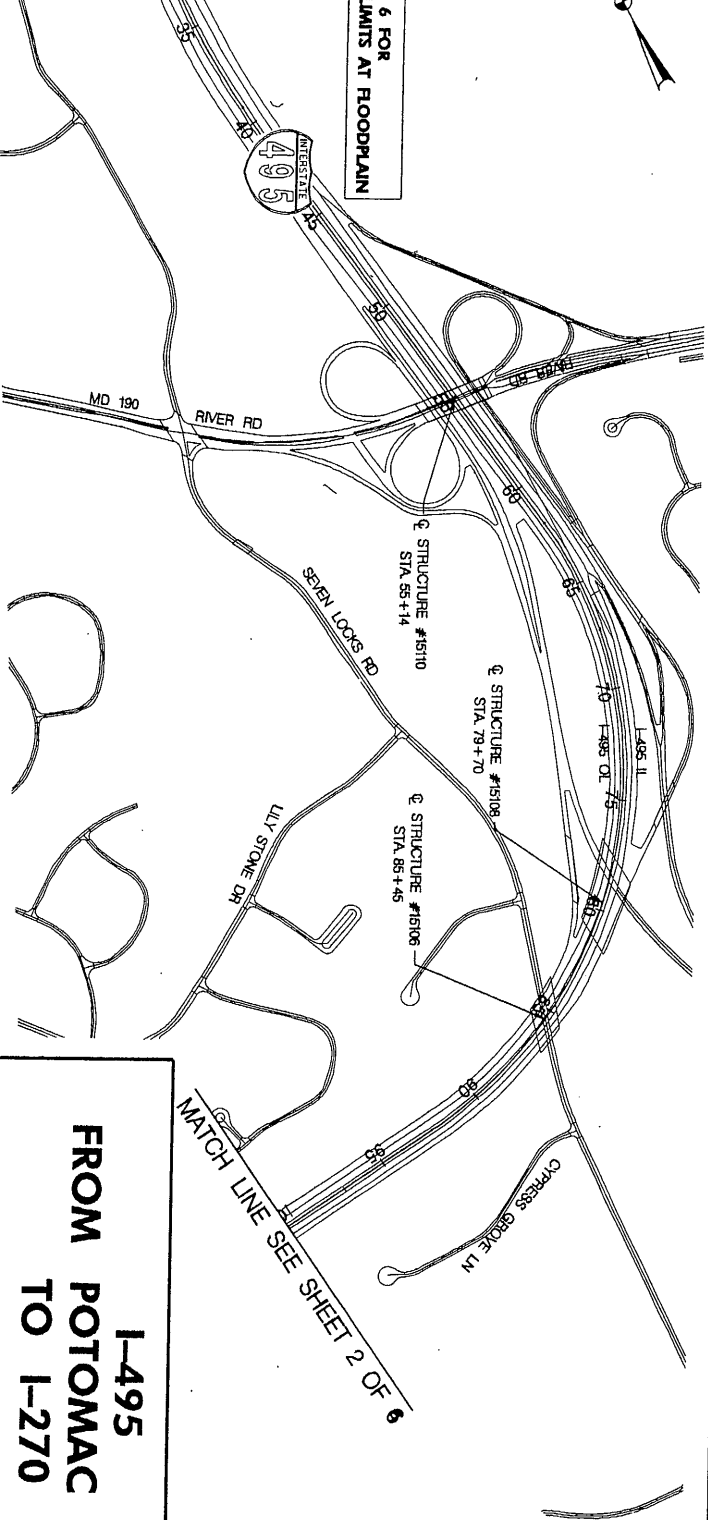
11. **Best Management Practices During Construction:** Authorized Person, its employees, agents and contractors shall conduct authorized activities in a manner consistent with the Best Management Practices specified by the Administration.
12. **Disposal of Excess:** Unless otherwise shown on the Approved Plan, all excess fill, spoil material, debris, and construction material shall be disposed of outside of nontidal wetlands, nontidal wetlands buffers, and the 100-year floodplain, and in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands.
13. **Temporary Staging Areas:** Temporary construction trailers or structures, staging areas and stockpiles shall not be located within nontidal wetlands, nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved Plan.
14. **Temporary Stream Access Crossings:** Temporary stream access crossings shall not be constructed or utilized unless shown on the Approved Plan. If temporary stream access crossings are determined necessary prior to initiation of work or at any time during construction, Authorized Person, its employees, agents or contractors shall submit a written request to the Administration and secure the necessary permits or approvals for such crossings before installation of the crossings. Temporary stream access crossings shall be removed and the disturbance stabilized prior to completion of authorized activity or within one (1) year of installation.
15. **Discharge:** Runoff or accumulated water containing sediment or other suspended materials shall not be discharged into waters of the State unless treated by an approved sediment control device or structure.
16. **Instream Construction Prohibition:** To protect important aquatic species, motor driven construction equipment shall not be allowed within stream channels unless on authorized ford crossings. Activities within stream channels are prohibited as determined by the classification of the stream (COMAR 26.08.02.08): **The unnamed tributary to Thomas Branch** is a **Use I-P** waterway; in-stream work may not be conducted from **March 1** to **June 15** inclusive, of any year.
17. **Instream Blasting:** Authorized Person shall obtain prior written approval from the Administration before blasting or using explosives in the stream channel.
18. **Minimum Disturbance:** Any disturbance of stream banks, channel bottom, wetlands, and wetlands buffer authorized by this Authorization or Approved Plan shall be the minimum necessary to conduct permitted activities. All disturbed areas shall be stabilized vegetatively no later than seven (7) days after construction is completed or in accordance with the approved grading or sediment and erosion control plan.
19. **Restoration of Construction Site:** Authorized Person shall restore the construction site upon completion of authorized activities. Undercutting, meandering or degradation of the stream banks or channel bottom, any deposition of sediment or other materials, and any alteration of wetland vegetation, soils, or hydrology, resulting directly or indirectly from construction or authorized activities, shall be corrected by Authorized Person as directed by the Administration.

U.S. ARMY CORPS OF ENGINEERS AUTHORIZATION

The U.S. Army Corps of Engineers has reviewed this activity and has granted authorization under the Maryland State Programmatic General Permit (MDSPGP-3), as a Category I, Activity B (1). The terms and conditions of the MDSPGP-3, as outlined in the enclosed attachment, should be followed when performing the authorized work.

MATCH LINE THIS SHEET

SEE SHEET 5 & 6 FOR RESURFACING LIMITS AT FLOODPLAIN

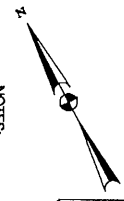


MATCH LINE SEE SHEET 2 OF 6

**I-495
FROM POTOMAC RIVER
TO I-270**

SCALE: NTS

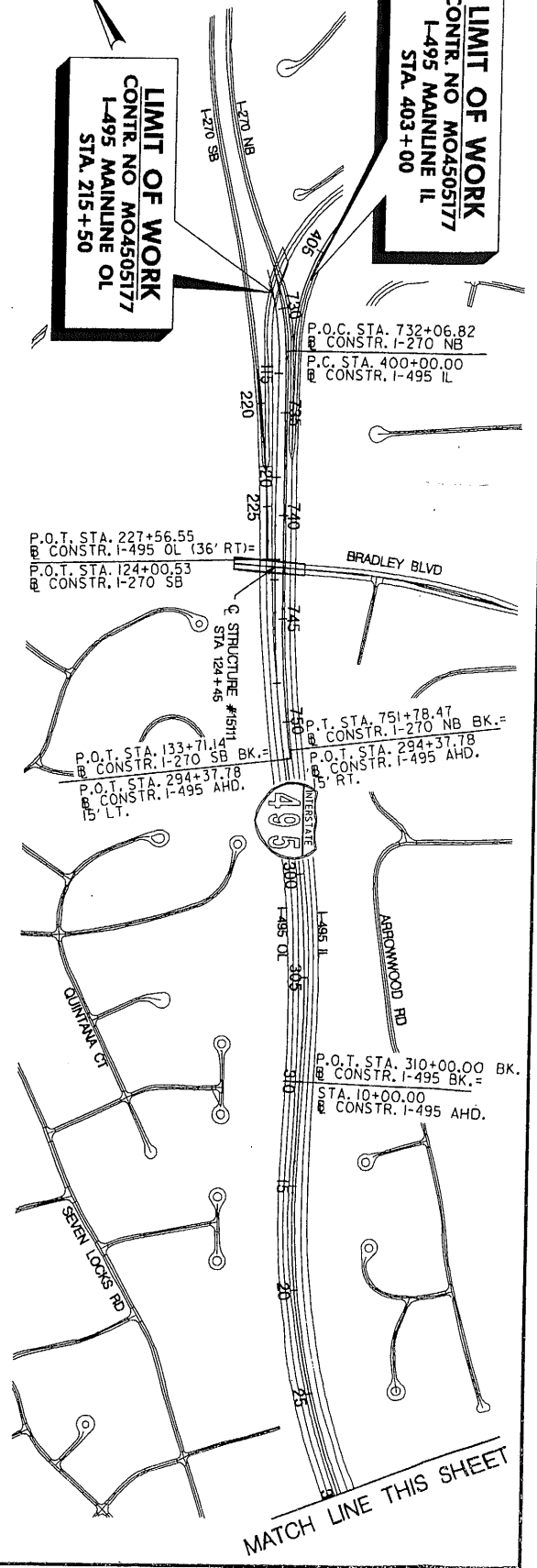
SHEET: 1 OF 6



- NOTES:
1. BASELINE WAS ESTABLISHED BY AS-BUILT PLANS AND PAINTED CORRESPONDINGLY ON EXISTING SHOULDERS.
 2. SEE SHEET NOS. 3 & 4 FOR CLARA BARTON PKWY AND MD 190 INTERCHANGE RAMP STATIONS AND LIMITS OF WORK.
 3. SEE SHEET NO. 4 FOR CD ROAD STATION REFERENCES AND LIMIT OF WORK.
 4. ALONG I-495 CONTRACTOR SHALL GRIND AND RESURFACE WITHIN LIMITS OF WORK IDENTIFIED.

**LIMIT OF WORK
CONTR NO MO4505177
I-495 MAINLINE OL
STA. 215 + 50**

**LIMIT OF WORK
CONTR NO MO4505177
I-495 MAINLINE IL
STA. 403 + 00**



MATCH LINE THIS SHEET

P.O.C. STA. 732+06.82
CONSTR. I-270 NB
P.C. STA. 400+00.00
CONSTR. I-495 IL

P.O.T. STA. 227+56.55
CONSTR. I-495 OL (36' RT)=
P.O.T. STA. 124+00.53
CONSTR. I-270 SB

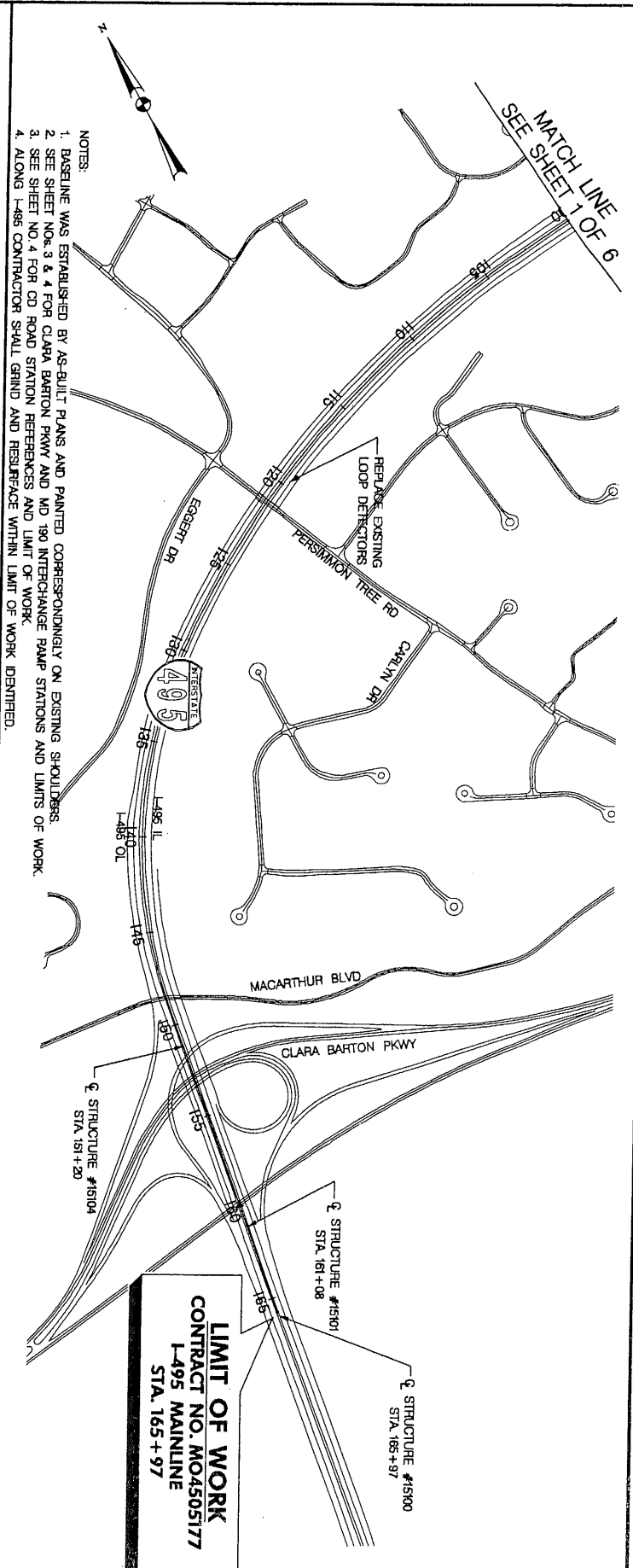
Q STRUCTURE #1911
STA 124+45

P.O.T. STA. 133+71.4
CONSTR. I-270 SB BK.=

P.O.T. STA. 294+37.78
CONSTR. I-495 AHD.
P.O.T. STA. 294+37.78
CONSTR. I-495 AHD.
P.O.T. STA. 751+78.47
CONSTR. I-270 NB BK.=

P.O.T. STA. 294+37.78
CONSTR. I-495 AHD.
P.O.T. STA. 751+78.47
CONSTR. I-270 NB BK.=

P.O.T. STA. 310+00.00 BK.
CONSTR. I-495 BK.=
STA. 10+00.00
CONSTR. I-495 AHD.

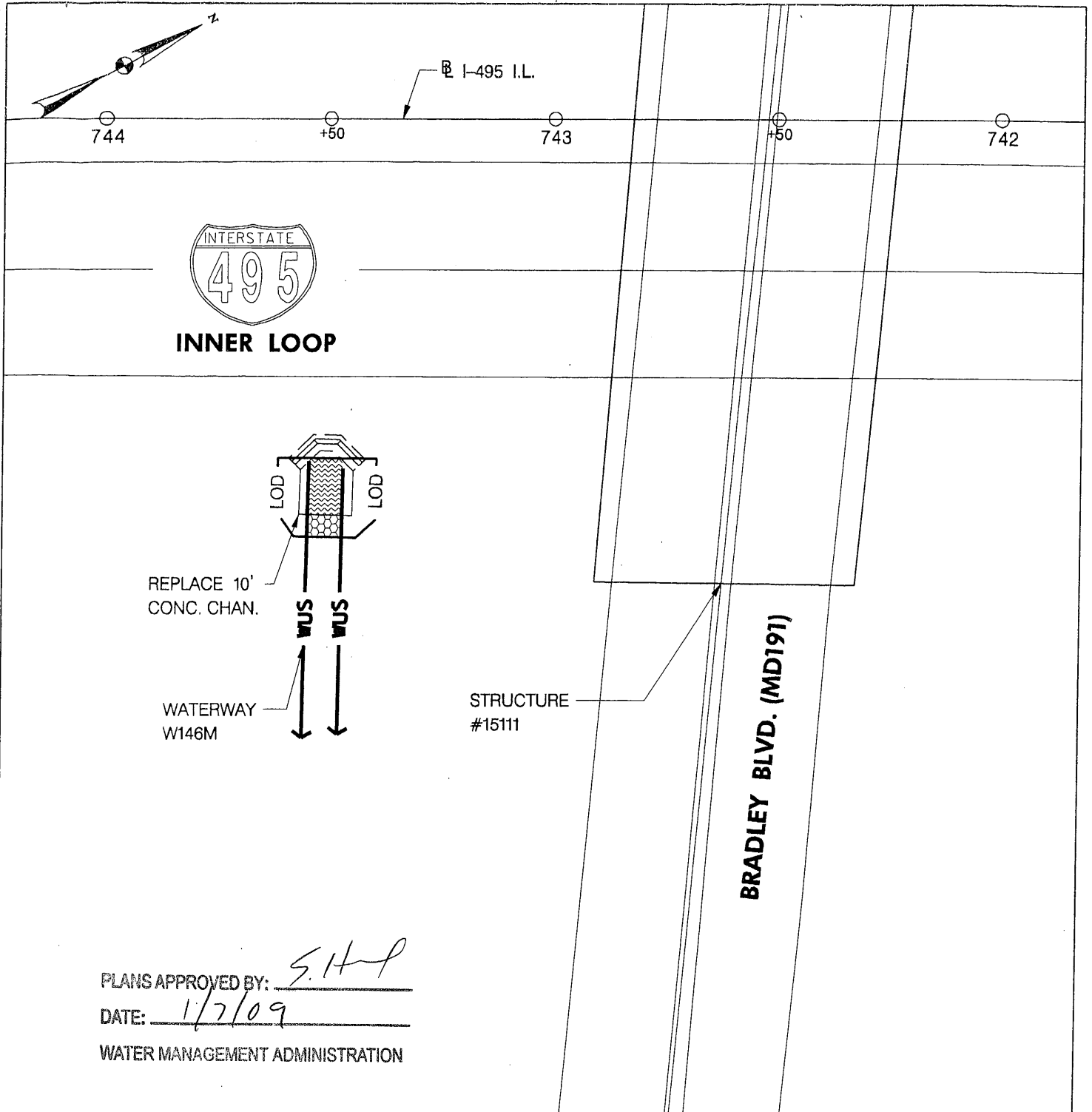


- NOTES:
1. BASELINE WAS ESTABLISHED BY AS-BUILT PLANS AND PAINTED CORRESPONDINGLY ON EXISTING SHOULDERS.
 2. SEE SHEET NOS. 3 & 4 FOR CLARA BARTON PKWY AND MD 190 INTERCHANGE RAMP STATIONS AND LIMITS OF WORK.
 3. SEE SHEET NO. 4 FOR CD ROAD STATION REFERENCES AND LIMITS OF WORK.
 4. ALONG I-495 CONTRACTOR SHALL GRIND AND RESURFACE WITHIN LIMIT OF WORK IDENTIFIED.

**I-495
FROM POTOMAC RIVER
TO I-270**

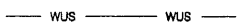
SCALE: NTS

SHEET: 2 OF 6



LEGEND

WATERS OF THE U.S.



LIMITS OF DISTURBANCE



WATERS OF THE US (WUS) IMPACTS



TEMPORARY WUS IMPACTS = 5 LF / 40 SF

PERMANENT WUS IMPACTS = 10 LF / 102 SF

DMJM HARRIS | AECOM

7 St. Paul Street, 17th Floor
Baltimore, Maryland 21202
410-637-1700

WETLAND IMPACT PLATE

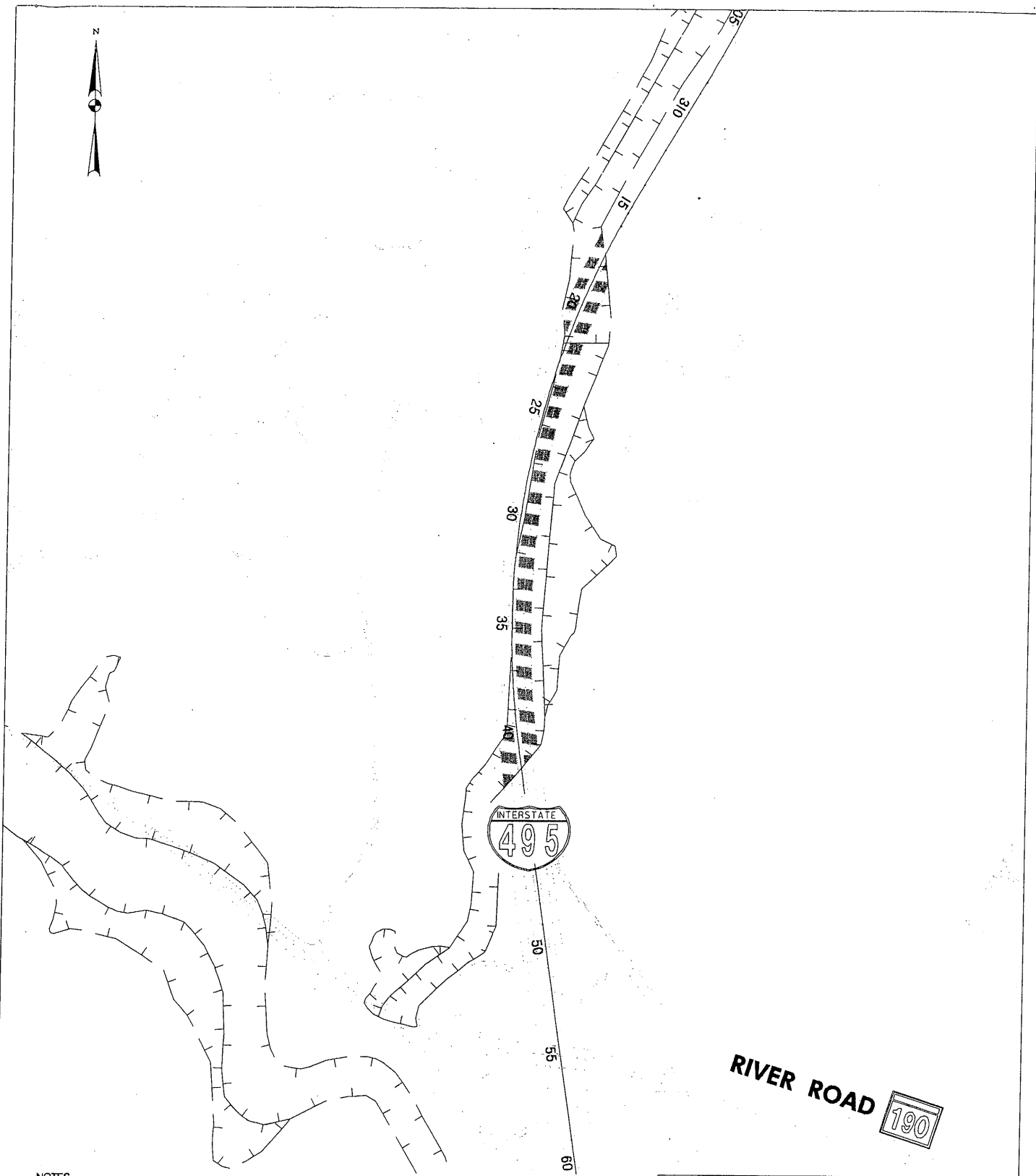


SCALE: 1" = 30'

I-495 FROM POTOMAC RIVER TO I-270

COUNTY: MONTGOMERY
APPLICATION BY: MARYLAND STATE
HIGHWAY ADMIN.
MAILSTOP C-303

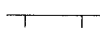

SHEET: 1
SEPTEMBER 2008



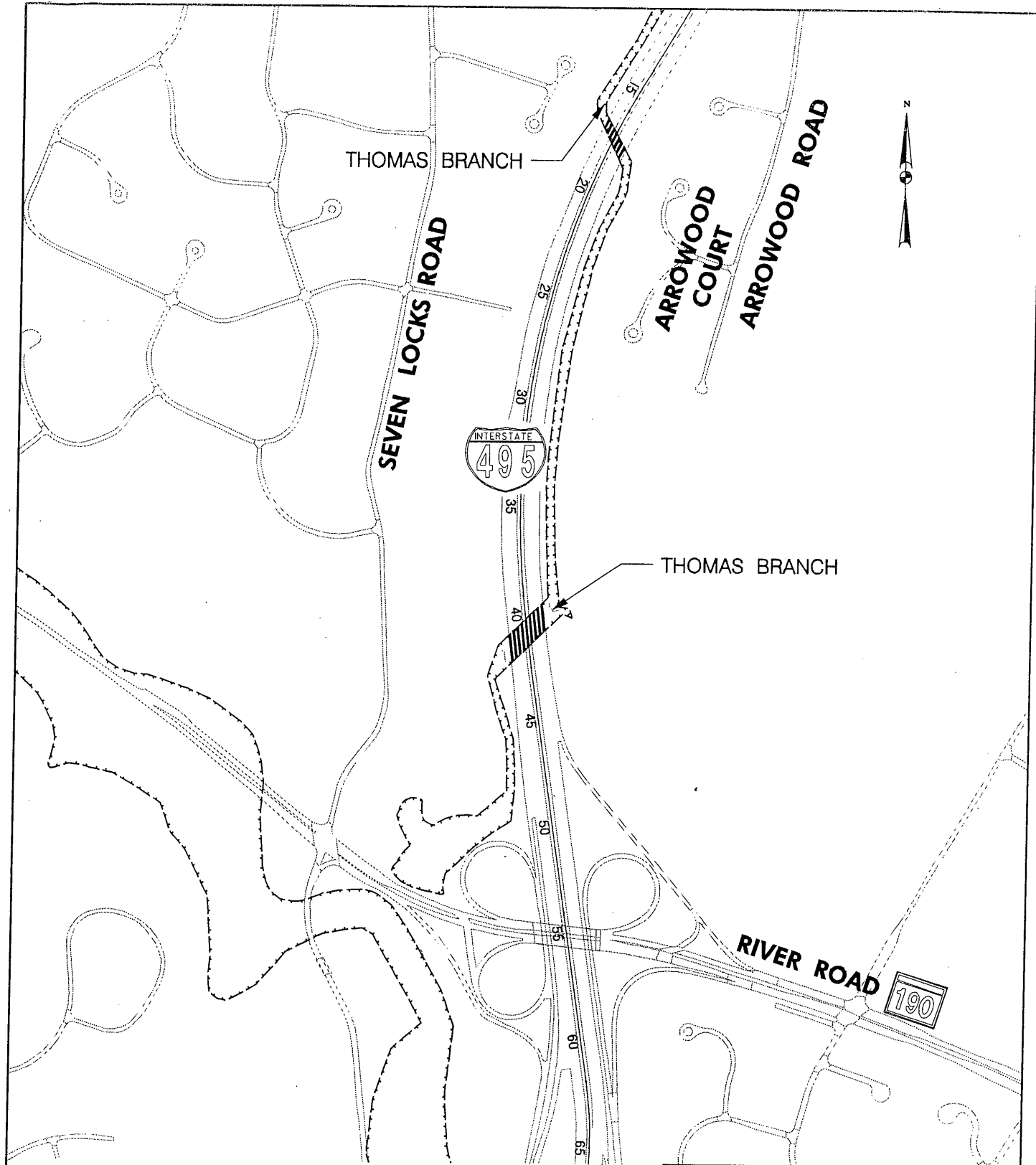
NOTES

1. SEE SHEET NO. 1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
2. SEE SHEET NO. 3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

LEGEND

-  100-YR FLOODPLAIN BOUNDARY (APPROXIMATE POSITION)
-  2" GRINDING & RESURFACING

FLOODPLAIN IMPACT AREA		
I-495 FROM POTOMAC RIVER TO I-270		
DATE NOV. 2008	CONTRACT NO. M04505177	SHEET OF



NOTES

1. SEE SHEET NO. 1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
2. SEE SHEET NO. 3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

LEGEND

----- 100-YR FLOODPLAIN BOUNDARY (APPROXIMATE POSITION)

 2" GRINDING & RESURFACING

FLOODPLAIN IMPACT AREA		
I-495 FROM POTOMAC RIVER TO I-270		
DATE NOV. 2008	CONTRACT NO. M04505177	SHEET 1 OF 2

**BEST MANAGEMENT PRACTICES FOR WORKING IN
NONTIDAL WETLANDS, WETLAND BUFFERS,
WATERWAYS, AND 100-YEAR FLOODPLAINS**

- 1) No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 2) Place materials in a location and manner that does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- 4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- 6) Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- 7) All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (Lolium multiflorum), Millet (Setaria italica), Barley (Hordeum sp.), Oats (Uniola sp.), and/or Rye (Secale cereale). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. **Kentucky 31 fescue shall not be utilized in wetland or buffer areas.** The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- 8) After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- 9) To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream:

Use I waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year.
- 10) Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- 11) Culverts shall be constructed and any riprap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

IMPORTANT INFORMATION ABOUT YOUR PROJECT

Corps Permit Tracking No.: 200864905

Date: January 7, 2009

Permittee/Project Name: MD SHA/I-495 from Potomac River to I-270

MDSPGP-3 Category and Activity No.: I B (1)

Dear Applicant:

The U. S. Army Corps of Engineers, Baltimore District, has determined that the proposed work meets the terms and conditions of the Maryland State Programmatic General Permit-3 (MDSPGP-3), provided the work is completed in compliance with the plan(s) (**enclosed**), the standard MDSPGP-3 conditions (**enclosed**), the applicable MDSPGP-3 activity-specific conditions (**enclosed**), and special conditions (**enclosed, if applicable**). This MDSPGP-3 verification is provided pursuant to Section 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act. If any of the information contained in your application and/or plans is later found to be in error, the MDSPGP-3 authorization for your project may be modified, suspended, or revoked.

As a condition of the MDSPGP-3 authorization, you, the permittee, are required to complete and sign the enclosed Compliance Self-Certification Form regarding the completed work and any required mitigation, and return to the above address within 60 days following completion of the authorized work and any required mitigation.

In addition, **please note**, if you sell the property associated with this permit, when the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new property owner(s). Although the construction period for work authorized by this MDSPGP-3 is finite, the permit itself, with its limitations, does not expire. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, you must have the transferee (new owner) provide a mailing address and telephone number along with their signature and date in the space provided below, and mail a copy to the above address.

Your MDSPGP-3 authorization is valid until September 30, 2011 unless the MDSPGP-3 is modified, reissued, or revoked. You must remain informed of the changes to the MDSPGP-3. When changes to the MDSPGP-3 occur, a public notice announcing the changes will be issued. If you have commenced construction or are under contract to commence construction of this authorized work prior to the expiration, modification, or revocation date of the MDSPGP-3 itself, you have 12 months from the effective date of the MDSPGP-3's expiration, modification or revocation to complete the work under the present terms and conditions of this MDSPGP-3.

In order for this authorization to be valid, you must obtain all required Federal, State, and local permits.


Margaret E. Gaffney-Smith
Chief, Regulatory Branch

TRANSFEREE SIGNATURE

DATE

AREA CODE / TELEPHONE NO.

PRINTED NAME

ADDRESS



DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

REPLY TO
ATTENTION OF

Effective October 1, 2006

200864905
Corps Permit Number

CENAB-OP-R-MDSPGP-3 (MARYLAND STATE PROGRAMMATIC GENERAL PERMIT-3)

TO WHOM IT MAY CONCERN:

Upon the recommendation of the Chief of Engineers, and under the provisions of Section 404 of the Clean Water Act, as amended, and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), the Secretary of the Army hereby authorizes the discharge of dredged or fill material or the placement of structures into Waters of the United States, including wetlands and navigable waters. These discharges and structures must comply with all the terms and conditions identified in this MDSPGP-3. It has been determined that the project qualifies for the MDSPGP-3. Accordingly, you are authorized to undertake the activity pursuant to:

1. Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403); and/or
2. Section 404 of the Clean Water Act (33 U.S.C. 1344).

You are authorized to perform work in accordance with the terms and conditions specified in Section VI of the MDSPGP-3 effective on October 1, 2006.

VI. General Conditions: To qualify for MDSPGP-3 authorization, the prospective permittee must comply with the following general conditions, as appropriate, in addition to any activity-specific conditions in the MDSPGP-3 category list and any case-specific special conditions imposed by the Corps.

A. General Requirements:

1. **Other Permits:** Authorization under the MDSPGP-3 does not obviate the need to obtain other Federal, State, or local authorizations required by law.

2. **Applicability:** Applicability of the MDSPGP-3 shall be reviewed with reference to the Corps definition of waters of the United States, including wetlands, and navigable waters of the United States. Applicants are responsible for delineating boundaries of all waters of the United States, including wetland boundaries. The delineation of wetland boundaries shall be accomplished in accordance with the current Federal manual for identifying jurisdictional wetlands and appropriate guidance issued by the Corps of Engineers.

3. **Minimal Effects:** Projects authorized by the MDSPGP-3 shall have no more than minimal individual and cumulative adverse environmental effects.

4. **Discretionary Authority:** Notwithstanding compliance with the terms and conditions of the MDSPGP-3, the Corps retains discretionary authority to require an alternate Corps permit review for any project under all categories of the MDSPGP-3 based on concerns for the aquatic environment or for any other factor of the public interest. This authority may be invoked on a case-by-case basis during the review process for Category III activities whenever the Corps determines that, based on the concerns stated above, the potential consequences of the proposed project warrant individual review. In some rare instances, the Corps may have concerns for the aquatic environment or for any other public interest factor pertaining to a specific proposed project, which has already received a case-specific verification as a Category I activity. In order to evaluate this project under an alternate Corps permit review, the verification must be suspended in accordance with Section VII.E of the MDSPGP-3.

Whenever the Corps notifies an applicant that an alternate Corps permit may be required, authorization under the MDSPGP-3 is voided. No work may be conducted until the individual Corps permit is obtained, or until the Corps notifies the applicant that further review has demonstrated that the work may proceed under the MDSPGP-3.

5. **Single and Complete Projects:** The MDSPGP-3 shall not be used for piecemeal work and shall be applied to single and complete projects, including maintenance activities. All components of a project, including all attendant features both temporary and permanent, shall be reviewed together as constituting one single and complete project. All planned

phases of multi-phased projects (e.g., subdivisions should include all work such as roads, utilities, and lot development) shall be applied for and reviewed together as constituting one single and complete project. The MDSPGP-3 shall not be used for any activity or portion of a project, e.g., a pier or boat ramp, that is part of, or dependent on, an overall project, e.g., the dredging of a main navigation channel or a spur channel, for which an individual permit or some other alternate Corps permit is required.

6. Use of Multiple MDSPGP-3 Category I Activities: More than one Category I activity may be used to authorize a single and complete project under the MDSPGP-3. However the project must meet the specific requirements of each Category I activity and the total extent of project impacts must not exceed the acreage limit of the Category I activity with the highest specified acreage limit (e.g., if armoring the toe of an existing culvert is constructed under Category I.b(2) with an associated nontidal bank stabilization authorized under Category I.f(1)., the maximum total impact limits to waters of the United States for the single and complete project may not exceed 1.0 acre (43,560 square feet).

7. Authorized Activities in Navigable Waters Subject to Section 10 of the Rivers and Harbors Act of 1899:

a. If future operations by the United States require removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable water, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

b. The U.S. Code of Federal Regulations, Title 33, Part 64 states that all structures erected in navigable waters in depths in excess of three feet at mean low water (MLW) require obstruction lights unless the applicant is advised to the contrary by the Coast Guard District Commander. If the structures authorized by this permit are to be built in water depths in excess of three feet at MLW, the permittee must contact the Commander (AOWW), Fifth Coast Guard District, Federal Building, 431 Crawford Street, Portsmouth, Virginia, 23704, to ascertain the need for obstruction lights.

B. National Concern:

1. Historic Properties: Any activity authorized by the MDSPGP-3 shall comply with Section 106 of the National Historic Preservation Act. MDE, in cooperation with the Maryland Historic Preservation Office, shall conduct an initial review and notify the Corps if any archaeological or other cultural resources are in the vicinity of the project. The Corps may require applicants to perform a survey of archaeological and historical resources in the project area. The Corps shall determine if consultation under Section 106 with MHT or the Advisory Council on Historic Preservation is required. The applicant must notify the Corps if the activity may affect any historic properties listed or eligible for listing, or that the applicant has reason to believe may be eligible for listing on the National Register of Historic Places. If the permittee, during construction of work authorized herein, encounters a previously unidentified archaeological or other cultural resource within the permit area subject to DA jurisdiction that might be eligible for listing in the National Register of Historic Places, the permittee shall immediately stop work in the permit area and notify the District Engineer. The permittee shall not begin or continue work until notified by the District Engineer that the requirements of the National Historic Preservation Act have been satisfied and that the activity may proceed. Information on the location and existence of historical resources can be obtained from the Maryland Historic Trust, Office of Preservation Services, and the National Register of Historic Places.

2. National Lands: Activities authorized by the MDSPGP-3 shall not impinge upon the value of any Federal land, including but not limited to, National Wildlife Refuges, National Forests, National Marine Sanctuaries or any area administered by the National Park Service (e.g., Assateague Island National Seashore).

3. Endangered Species: The MDSPGP-3 does not authorize any activity that may affect a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA); or which may destroy or adversely modify the critical habitat of such species unless and until appropriate coordination with the applicable resource agency(s) is complete and all such issues are resolved in accordance with the applicable regulations and the procedures outlined in the MDSPGP-3 Standard Operating Procedures. MDE, in cooperation with DNR, shall conduct an initial review and notify the Corps and FWS or NMFS if any Federally-listed species or critical habitat is likely to be in the vicinity of the project. The Corps shall determine if consultation with FWS or NMFS is required under Section 7 of the ESA. If consultation is required, the applicant, after notification, shall not begin or continue work until notified by the Corps that the requirements of the ESA have been satisfied and that the activity is eligible for authorization. Information on the location of threatened and endangered species and their critical habitat can be obtained from the FWS and NMFS.

4. **Essential Fish Habitat (EFH):** Section 305(b)(2) of the Magnuson-Stevens Fishery Conservation and Management Act requires an EFH consultation with the NMFS for any action or proposed action authorized, funded, or undertaken by a Federal agency that may adversely affect EFH. EFH has been defined by Congress as “those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity.” The designation and conservation of EFH seeks to minimize adverse effects on habitat caused by fishing and non-fishing activities. NMFS has determined that many of the MDSPGP-3 Category I activities are eligible for EFH general or programmatic concurrence and require no further EFH consultation. NMFS, in consultation with the District, has determined that individual EFH consultation is needed for some projects potentially eligible for authorization under Category I (includes those projects requiring EFH screening process under Category II) and all Category III projects of the MDSPGP-3 that may adversely affect EFH. The Corps will coordinate with NMFS as part of the Category II and Category III review procedures. EFH conservation recommendations made by NMFS will normally be included as a permit requirement by the Corps. If the EFH coordination and consultation requirements can not be resolved under the MDSPGP-3 process, an alternate Corps permit review is required for the project.

5. **Wild and Scenic Rivers:** No activity is authorized under the MDSPGP-3 that occurs in a component of the National Wild and Scenic River System, including rivers officially designated by Congress as study rivers for possible inclusion in the system, while such rivers are in an official study status, unless the appropriate Federal agency, with direct management responsibility for the river, has determined in writing that the proposed activity will not adversely affect any National Wild and Scenic River, including study rivers. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U. S. Forest Service, Bureau of Land Management, or U. S. Fish and Wildlife Service.)

6. **Federally Authorized Civil Works Projects:**

a. **Federal Navigation Projects:** The MDSPGP-3 does not authorize interference with any Federal navigation project. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration. (See VI.A.7.a. above)

b. **Other Federally Authorized Civil Work Projects (i.e., flood control, dams, and reservoirs):** The MDSPGP-3 does not authorize interference with any proposed or existing Federally-authorized civil works project.

7. **Federal Liability:** In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project, or uses thereof, as a result of other permitted or unpermitted activities or from natural causes;

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest;

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit;

d. Design or construction deficiencies associated with the permitted work; and

e. Damage claims associated with any future modification, suspension or revocation of the MDSPGP-3 or any specific MDSPGP-3 verification.

8. **Navigation:** Projects authorized under the MDSPGP-3 shall not cause interference with navigation, and no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to projects authorized under the MDSPGP-3. Nothing in the MDSPGP-3 shall in any way restrict the District Engineer, U. S. Army Engineer District, Baltimore, from exercising his legal authority to protect the public interest in navigation or from exercising his authority under the Navigation Servitude of the United States. (See VI.A.7.a. above)

C. Minimization of Environmental Impacts:

1. **Minimization:** Discharges of dredged or fill material into waters of the United States and adverse impacts of such discharges on the aquatic ecosystem shall be avoided and minimized to the maximum extent practicable on-site.

2. Mitigation:

a. Generally, compensatory mitigation will be required for all permanent tidal or nontidal wetland impacts either through the State's tidal or nontidal wetland compensation fund or by the permittee as required by special condition of the MDSPGP-3 or the State authorization.

b. Generally, compensatory mitigation will be required for all permanent impacts of 200 linear feet or greater to stream channels, rivers, and other open waters as appropriate under Federal guidance and to the extent necessary to ensure that the impacts are minimal. A proposed compensatory mitigation proposal may be submitted with the application to expedite the process. The Corps will determine if the project is eligible for authorization under the MDSPGP-3 subject to the applicant's submittal of a compensatory mitigation proposal for stream impacts. Compensatory mitigation plans for projects in or near streams or other open waters will generally include a requirement for the establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat impact concerns.

3. **Work in Wetlands:** Heavy equipment working in wetlands shall be avoided if possible and, if required, soil and vegetation disturbance shall be minimized by using techniques such as timber mats, geotextile fabric, and vehicles with low-pressure tires. Disturbed areas in wetlands shall be restored to preconstruction contours and elevations upon completion of the work.

4. **Temporary Fill and Mats:** Temporary fill and the use of mats are both considered a discharge of fill material and must be included in the quantification of impact area authorized by the MDSPGP-3. Temporary fill (e.g., access roads, cofferdams) in waters and wetlands authorized by the MDSPGP-3 shall be properly stabilized during use to prevent erosion. Temporary fill in wetlands shall be placed on geotextile fabric laid on the existing wetland grade. Upon completion of the work, all temporary fills shall be disposed of at an upland site, suitably contained to prevent erosion and transport to a waterway or wetland. Temporary fill areas shall be restored to their original, pre-construction contours and revegetated with native wetland species.

5. **Erosion and Sediment Control:** Adequate erosion and sediment control measures, practices and devices, such as vegetated filter strips, geotextile silt fences, phased construction, or other devices or methods, shall be used to reduce erosion and retain sediment on-site during and after construction. These devices and methods shall be capable of (a) preventing erosion, (b) collecting sediment and suspended and floating materials, and (c) filtering fine sediment. Erosion and sediment control devices shall be removed when the work is complete and the site has been successfully stabilized. The sediment collected by these devices shall be removed and placed at an upland location, in a manner that will prevent its later erosion into a waterway or wetland. All exposed soil and other fills shall be permanently stabilized at the earliest practicable date. In-stream work shall be conducted "in the dry" whenever practicable. This should be accomplished using stream diversion devices, other than earthen or stone cofferdams. In addition, work in waters of the United States should be performed during periods of low-flow or no-flow, whenever practicable.

6. **Aquatic Life Movements:** No activity may substantially disrupt the necessary life-cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions. A low flow channel must be maintained through any discharges placed for armoring across the channel so as to not impede flow in the waterway and/or not to block or impede the movements of anadromous, estuarine and resident fish. NOTE: Please refer to Appendix C for an expanded version of General Condition VI.C.6 entitled, "Guidance for Constructing Man-Made Stream Crossings and Scour Protection for Man-Made Stream Crossings to Pass Migratory Fish in The Coastal Plain Region of Maryland, and Lower Piedmont Region of Cecil, Harford, and Baltimore Counties, Maryland". This document includes recommended guidance on fish passage and hydrological parameters to ensure that man-made stream crossings do not adversely affect migratory fish.

7. Water Crossings:

- a. All temporary and permanent crossings of waterbodies shall be suitably bridged, culverted or otherwise constructed to withstand and to prevent the restriction of high flows and tidal flows; to maintain existing low flows; and to prevent the obstruction of movement by aquatic life indigenous to the water body, including anadromous, estuarine, and resident fish species.
- b. All water crossings (e.g., utility lines and road crossings) must be constructed roughly perpendicular to waters of the United States, including streams and wetlands. Where a utility line or access road is constructed parallel to a stream corridor, an undisturbed buffer shall be maintained between the utility line/access road and the waterway to avoid or minimize potential future impacts to waters of the United States. These potential impacts would include such issues as sewer line leaks or failures, future stream channel meandering, stream bank instability and failure, and right-of-way maintenance.
- c. Water crossings must be constructed "in the dry" whenever practicable. This should be accomplished by using stream diversion devices other than earthen or stone cofferdams.
- d. Equipment shall cross streams only at suitably constructed permanent or temporary crossings.
- e. Temporary structures and fills shall be removed and the area restored to its original contours and elevations, or to the conditions specified in the approved plans. The temporary structures and the areas of fill associated with these structures must be included in the total waterway/ wetlands impacts.

8. Discharge of Pollutants: All activities that are authorized under the MDSPGP-3 and that involve any discharge or relocation of pollutants into waters of the United States shall be consistent with applicable water quality standards, effluent limitations, standards of performance, prohibitions, and pretreatment standards and management practices established pursuant to the CWA (33 U.S.C. 1251 et. Seq.), and applicable State and local laws and regulations.

9. Spawning Areas: Activities, including structures and work in navigable waters of the United States or discharges of dredged or fill materials, in fish and shellfish spawning or nursery areas during spawning seasons shall be avoided. Impacts to these areas shall be avoided or minimized to the maximum extent practicable during all other times of year. Activities that result in the physical destruction (e.g., excavate, fill, or smother downstream by substantial turbidity) of an important spawning area are not authorized.

10. Waterfowl Breeding and Wintering Areas: Discharges into breeding and wintering areas for migratory waterfowl shall be avoided to the maximum extent practicable.

11. Environmental Values: The permittee shall make every reasonable effort to construct or operate the work authorized under the MDSPGP-3 in a manner that maintains as many environmental values as practicable, and that avoids or minimizes any adverse impacts on existing fish, wildlife, and natural environmental values.

D. Procedural Conditions:

1. Inspections: The permittee shall permit the District Engineer or his authorized representative(s) to make periodic inspections at any time deemed necessary to ensure that the work is being performed in accordance with the terms and conditions of the MDSPGP-3. The District Engineer may also require post-construction engineering drawings (as-built plans) for completed work, and post-dredging survey drawings for any dredging work.

2. Compliance Certification: Every permittee who receives a written MDSPGP-3 verification shall submit a signed Compliance Certification Form within 60 days following completion of the authorized work and any required mitigation (but not mitigation monitoring, which requires separate submittals). Failure to submit the Compliance Certification Form by the permittee could result in the Corps taking appropriate non-compliance enforcement action against the permit holder. The blank Compliance Certification Form will be forwarded to the permittee with the MDSPGP-3 verification. The completed form will include the following:

- a. A statement that the authorized work either was or was not done in accordance with the MDSPGP-3 verification, including any general and/or specific conditions. If the activity was not done in accordance with the MDSPGP-3 verification, including any general and/or specific conditions, the permittee shall describe the specifics of the deviation from the authorized activity.

b. A statement that any required mitigation was or was not completed in accordance with the permit conditions. If the mitigation was not completed in accordance with the permit conditions, the permittee shall describe the specifics of the deviation from the permit conditions.

c. The signature of the permittee, certifying the completion of the work and compensatory mitigation.

After the project is completed, the certification shall be sent to the Baltimore District at the following address:

**U. S. Army Corps of Engineers
Baltimore District
Attn: CENAB-OP-R
P. O. Box 1715
Baltimore, MD 21203-1715**

3. **Transfer of MDSPGP-3 Verifications:** If the permittee sells the property associated with a MDSPGP-3 verification, the permittee may transfer the MDSPGP-3 verification to the new owner by submitting a letter to the Baltimore District Corps of Engineers office to validate the transfer. A copy of the MDSPGP-3 verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this MDSPGP-3 are still in existence at the time the property is transferred, the terms and conditions of this MDSPGP-3, including special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this MDSPGP-3 permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

4. **Maintenance:** The permittee shall maintain the work or structure authorized by the MDSPGP-3 in good condition and in compliance with the terms and conditions of the MDSPGP-3.

5. **Property Rights:** The MDSPGP-3 does not convey any property rights, either in real estate or material, or any exclusive privileges, nor does it authorize any injury to property or invasion of rights or any infringement of Federal, State, or local laws or regulations.

6. **Modification, Suspension and Revocation:** The MDSPGP-3, or any verification under it, may be either modified, suspended, or revoked, in whole or in part, pursuant to DA policies and procedures and any such action shall not be the basis for any claim for damages against the United States.

7. **Restoration:** The permittee, upon receipt of a notice of revocation of authorization under the MDSPGP-3, shall restore the wetland or waterway to its former condition, without expense to the United States and as directed by the Secretary of the Army or his authorized representative. If the permittee fails to comply with such a directive, the Secretary or his designee may restore the wetland or waterway to its former condition, by contract or otherwise, and recover the cost from the permittee.

8. **Special Conditions:** The Corps may impose special conditions on any project authorized under the MDSPGP-3, in cases where the Corps determines that special conditions are necessary to avoid or minimize adverse effects on the environment or on any other factor of the public interest. Failure to comply with all conditions of the authorization/verification, including special conditions, will constitute a permit violation/unauthorized work and may subject the permittee to criminal, civil, or administrative penalties, and/or restoration.

9. **False or Incomplete Information:** If the project is verified by the Corps or MDE under the MDSPGP-3 and subsequently discovers that it has relied on false, incomplete, or inaccurate information provided by the permittee, the MDSPGP-3 verification may be revoked and the Government may institute appropriate legal proceedings.

10. **Compliance:** Any activity performed in waters of the United States, including wetlands and navigable waters, that is not in compliance with all the terms and conditions of the MDSPGP-3 that includes the MDSPGP-3 Category List activity-specific conditions, constitutes unauthorized work and is subject to an enforcement action by the Corps or the EPA. Furthermore, the MDSPGP-3 does not delegate any Section 404 enforcement or regulatory authority. When unauthorized

work occurs in waters of the United States, including wetlands and navigable waters, it is subject to one or more of the following responses by EPA and/or the Corps:

- a. A Cease and Desist order and/or an administrative compliance order requiring remedial action.
- b. Initiation and assessment of a Class I administrative penalty order pursuant to Section 309(g) of the CWA.
- c. Initiation and assessment of a Class II administrative penalty for continuing violation pursuant to Section 309(g) of the CWA.
- d. Referral of the case to the U. S. Attorney with a recommendation for a civil or criminal action.
- e. If the Corps determines that an after-the-fact application is appropriate, it will be reviewed following the appropriate procedures.
- f. Any other appropriate response.



DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

REPLY TO
ATTENTION OF

200864905
Corps Permit Tracking Number

MDSPGP-3
CATEGORY I ACTIVITY (I-b(1))
General Maintenance

The projects, structures and activities, listed below, must comply with all activity-specific conditions, in addition to all of the general conditions of this general permit.

This activity authorizes discharges of dredged or fill material for the repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill. This activity authorizes minor deviations in the configuration of the structure or filled area, including changes in materials, construction techniques, current construction codes, or safety standards that are necessary to make the repair, rehabilitation or replacement, provided the adverse environmental effects resulting from such repair, rehabilitation, or replacement are minimal. Currently serviceable means that the structure or fill is usable in its current condition, or with some maintenance, but not so degraded as to essentially require reconstruction. This activity also authorizes the removal of accumulated sediments and debris in the vicinity of, and within, existing structures (e.g., bridges, culverted road crossings, water intake structures, etc.). This activity also authorizes repair, rehabilitation, or replacement in-kind of structures destroyed by storms, floods, fire or other discrete events. This activity authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the Section 404(f) exemption for maintenance (Sections 10 and 404; all waters of the United States).

Impact Limits: The total temporary (i.e., construction impacts including stream diversion devices) and permanent impact to waters of the United States, which includes tidal and nontidal wetlands, streams, rivers, navigable waters, and other open waters, may not exceed 1.0 acre (43,560 square feet). The removal of sediment is limited to the minimum necessary to restore the waterway in the immediate vicinity of the structure to the approximate dimensions that existed when the structure was built, but cannot extend any further than 200 feet in any direction from the structure. Any impact to waters of the United States, including wetlands, associated with this activity is to be minimized below these impact limits to the greatest extent possible.

Conditions:

- (i) No application is required for Corps authorization except when the proposed total impacts (temporary and permanent) to tidal wetlands and/or tidal waters associated with this general maintenance activity exceed 10,000 square feet. An application must then be submitted to MDE for Corps authorization. (Refer to pages 36-37 of the MDSPGP-3 for exceptions.)
- (ii) The repair, rehabilitation, or replacement activity is limited to the original dimensions or configuration, except for minor deviations due to changes in materials, construction techniques, or current construction codes or safety standards. Minor deviations in the configuration of the structure or filled area must not exceed the minimum necessary to make the repair, rehabilitation or replacement.
- (iii) Repair, rehabilitation, or replacement of an existing serviceable structure should not result in the displacement of in-stream habitats or features important to anadromous, estuarine, and resident fish, such as plunge or scour pools.
- (iv) For replacement culvert crossings, culverts must be depressed in accordance with the State of Maryland regulations.

MDSPGP-3
CATEGORY I ACTIVITY (I-b(1))
General Maintenance

-2-

- (v) Work under this activity must not impede flow in the waterway, and/or must not block or impede the movements of anadromous and resident fish.
- (vi) The structure or fill must not be put to uses differing from those uses specified or contemplated for it in the original permit or the most recent authorized modification.
- (vii) Repair, rehabilitation, or replacement of structures or fills destroyed or damaged by storms, floods, fire or other discrete events must be started or under contract to start within two years of the date that they were damaged or destroyed.
- (viii) Maintenance of existing stormwater management facilities must be performed in accordance with any maintenance plan to restore to the design as originally approved and constructed, which includes limiting excavation to the original contours.
- (ix) This activity does not authorize the discharge of dredged or fill material for the purpose of reclaiming land lost through gradual erosion processes.
- (x) This activity does not authorize any maintenance dredging, beach restoration, stream restoration, stream relocation or channelization, and repair or replacement of bulkheads.
- (xi) This activity does not authorize blasting or other forms of uncontained in-water demolition.
- (xii) All excavated materials must be deposited and retained in an upland (non-wetland) area.
- (xiii) This activity does not authorize access roads proposed as part of utility maintenance.
- (xiv) Prospective permittees should refer to General Condition VI.C.6 of the MDSPGP-3 (i.e., pertaining to Aquatic Life Movements), for guidance on hydrologic parameters for constructing man-made crossings, to ensure that the activity will not adversely affect migratory fish.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

MDSPGP-3 PERMIT COMPLIANCE, SELF-CERTIFICATION FORM (10/1/06)

Corps Permit Tracking No.: 200864905

Category & Activity Number: IB (1)

Project Name: I-495 from Potomac River to I-270

Applicant Name: Maryland State Highway Administration

Waterway: Unnamed tributary to Thomas Branch

County: Montgomery

Dear Permittee:

In accordance with the compliance certification condition of your MDSPGP-3 authorization, you are required upon completion of all permitted work, or if mitigation/compensation is required, within 60 days following completion of the authorized work and any required mitigation (but not the mitigation monitoring, which requires separate submittals), to complete and sign this certification form and return it to the Corps of Engineers, Baltimore District to the address shown above and include ATTN: CENAB-OP-R.

Please note that the permitted activity is subject to compliance inspections by U.S. Army Corps of Engineers representatives. As a condition of this permit, failure to return this notification form, provide the required information below, or to perform the authorized work in compliance with the permit, can result in suspension, modification or revocation of your authorization in accordance with 33 CFR Part 325.7 and/or administrative, civil, and/or criminal penalties, in accordance with 33 CFR part 326.

Please provide the following information:

1. Date authorized work commenced: _____ 2. Date authorized work completed: _____

3. Was all work and any required mitigation, completed in accordance with your MDSPGP-3 authorization, including all general and/or specific conditions? YES ___ NO ___

4. Explain in detail any deviations to the authorized work and/or mitigation (use additional sheets if necessary)

5. Was mitigation accomplished through a contribution to the Maryland Nontidal Wetlands Compensation Fund? YES ___ NO ___ (if NO complete Nos. 6 and 7 below).

6. Wetland Mitigation: Required? YES ___ NO ___ Required Completion Date _____
Completed? YES ___ NO ___ Mitigation Monitoring Reports Required? YES ___ NO ___

7. Attach labeled photographs showing completed work including mitigation area(s).

I hereby certify that, except as noted above, that all work, including mitigation, has been completed in accordance with the terms and conditions, including special conditions of the above referenced permit.

Signature of Permittee _____ Date _____

Signature of Contractor/Agent _____ Date _____

Address: _____

Address: _____

Telephone: _____

Telephone: _____

TERMS AND CONDITIONS

TC SECTION 4
CONTROL OF WORK

TC-4.02 FAILURE TO MAINTAIN PROJECT

98 **ADD:** As a third paragraph.

Additionally, an appropriate deduction will be made 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.

TC SECTION 7
PAYMENT

TC-7.09 PRICE ADJUSTMENT FOR DIESEL FUEL

- (a) **General.** A Price Adjustment (PA) will be made to provide additional compensation to the Contractor or a credit to the Administration for the fluctuation in the cost of diesel fuel.

The monthly index price used for calculating the PA will be the On-Highway Diesel Fuel Price for the Central Atlantic Region published by the U.S. Department of Energy, Energy Information Administration, at www.eia.doe.gov. The monthly index price will be the average of the weekly prices posted for the month.

The prevailing base index price will be the price specified for Diesel Fuel currently posted at www.marylandroads.com (Business with SHA/Contracts, Bids, and Proposals) prior to bid opening. A historical database will be maintained by the Administration.

The adjustment factors for specific categories of the work are included in Table TC-7.09. Category A-E will apply to this Contract.

The PA will be calculated when the index for the current month increases or decreases more than 5 percent of the base index. The total dollar amount of fuel adjustment will be limited to 5 percent of the Contract Total Amount as bid. If an increase or decrease in costs exceeds 5 percent of the Contract Total Amount as bid, no further adjustment will be made.

Computations for adjustment will be as follows:

$$\text{Percent Change} = [(E - B)/B] \times 100$$

$$\text{PA} = [E - (B \times D)] \times F \times Q$$

Where:

- PA = Amount of the price adjustment
- E = Current monthly index price
- B = Prevailing base index price
- D = 1.05 when increase is over 5%; 0.95 when decrease is over 5%
- F = Applicable fuel adjustment factor from Table TC-7.09
- Q = Quantity of individual units of work

TABLE TC-7.09

COST ADJUSTMENT FACTORS FOR DIESEL FUEL			
CATEGORY	DESCRIPTION	UNITS	FACTOR
A	Sum of Cubic Yards of Excavation in Category 200	Gallons/Cubic Yard	0.29
B	Sum of Structure Concrete in Category 400	Gallons/Cubic Yard	1.892
C	Sum of Aggregate Base in Category 500	Gallons per ton	0.60
D	Sum of HMA in Category 500	Gallons per ton	3.50
E	Sum of Rigid Concrete Pavement in Category 500	Gallons/Cubic Yard	0.95

Any difference between the checked final quantity and the sum of quantities shown on the monthly estimates for any item will be adjusted by the following formula:

$$FPA = [(FCQ \div PRQ) - 1] \times EA$$

Where:

- FPA = Final PA for the item that increased or decreased
- FCQ = Final Checked Quantity of the item
- PRQ = Total Quantity of the item reported on the most recent estimate
- EA = Total PA of the item shown on most recent estimate

(b) Price Adjustment Criteria and Conditions. The following criteria and conditions will be considered in determining the PA.

(1) Payment. The PA will be computed on a monthly basis. PA resulting in increased payment to the contractor will be paid under the item Price Adjustment for Diesel Fuel. The item amount will be established by the Administration, and shall not be revised by the Contractor. PA resulting in a decreased payment will be deducted from monies owed the Contractor.

The monthly base price for determining a PA for all work performed after the Contract completion date, as revised by an approved time extensions, will be the monthly base price at the time of the Contract completion date (as extended) or at the time the work was performed, whichever is less.

- (2) **Expiration of Contract Time.** When eligible items of work are performed after the expiration of Contract time with assessable liquidated damages, no PA will be made.
- (3) **Final Quantities.** Upon completion of the work and determination of final pay quantities, an adjusting Change Order will be prepared to reconcile any difference between estimated quantities previously paid and the final quantities.
- (4) **Inspection of Records.** The Administration reserves the right to inspect the records of the Contractor to ascertain actual pricing and cost information for the diesel fuel used in the performance of the applicable items of work..
- (5) **Additional Work.** When applicable items of work, as specified herein, are added to the Contract as additional work, in accordance with the Contract provisions, no PA will be made for the fluctuations in the cost of diesel fuel unless otherwise approved by the Engineer. The Contractor shall use current fuel costs when preparing required backup data for work to be performed at a negotiated price.
- (6) **Force Account.** Additional work performed on a force account basis, reimbursement for material, equipment, and man-hours as well as overhead and profit markups will be considered to include full compensation for the current cost of diesel fuel.



CATEGORY 100
PRELIMINARY

SECTION 103 — ENGINEERS OFFICE

103.03 CONSTRUCTION.

144 **DELETE:** 103.03.06 Microcomputer System for all Offices in its entirety.

INSERT: The following.

103.03.06 Microcomputer System for all Offices.

(a) Desktop Unit.

- (1) IBM compatible with an Intel or AMD processor.
- (2) Minimum microprocessor speed of 3.0 GHz.
- (3) Minimum hard drive storage of 80 GB (gigabyte).
- (4) Minimum of 2 GB RAM (Random Access Memory).
- (5) Enhanced 101 key keyboard with wrist rest.
- (6) Super Video Graphics Accelerator (SVGA).
- (7) Modem 56K BPS, ITU V.92 compliant – required for remote dial-in to the computer to provide MCMS system administration.
- (8) Mouse with mouse pad.
- (9) One CD-RW drive [re-writable CD-ROM].

(b) Operating System. Minimum Microsoft® Windows XP – all Microsoft Windows Critical Updates shall be installed prior to computer set up in the field office.

(c) Video Monitor. Flat-Panel LCD Monitor conforming to Energy Star requirements with a minimum screen size of 17 in.

(d) Printer. B&W Laser Jet Printer with a minimum resolution of 1200 DPI (dots per in.) and a minimum of 8 MB of RAM. Inkjets will not be accepted. Printer shall have a minimum print speed of 15 PPM (pages per minute).

(e) Software.

- (1) Microsoft® Office 2007 Professional for Windows™ or later.
- (2) Symantec® pcAnywhere32 for Windows™ version 12.0 or later.



- (3) Antivirus software shall be installed and configured to perform an automatic update when the microcomputer system connects to the internet. Antivirus software approved for SHA web email: *Norton, McAfee, Sophos, or ETrust.

(*Norton Internet Security includes both Antivirus and a Personal Firewall).

- (f) **Internet Access.** The microcomputer system shall be provided with unlimited Internet service approved by the Engineer. Where available internet high-speed service [DSL or cable] must be provided. With DSL or cable internet service an external Router device and firewall software are required to protect the computer from security intrusions. With DSL a Dual Outlet Modular Adapter [single-line RJ11] will be required to connect the DSL modem and the 56k dial-up modem to the same line.

(g) Accessories.

- (1) Uninterruptible power supply (UPS).
- (2) Standard computer workstation with minimum desk space of 60 X 30 in. and a swivel type office chair, padded with arm rests.
- (3) 8-1/2 X 11 in. xerographic paper to be supplied as needed.
- (4) Toner or ink as needed for printer.
- (5) Maintenance agreement to provide for possible down time.
- (6) Physical security system to deter theft of computer components.
- (7) Three 1GB USB Flash Drive storage devices.
- (8) Blank recordable CD-R media for re-writable CD-ROM drive to be supplied as needed.

(h) Notes.

- (1) The microcomputer system shall be completely set up ready for use on or before the day the Engineers office is to be occupied.
- (2) All software stated above shall be supplied on original disks with manuals and be retained in the construction field office for the duration of the Contract.
- (3) If for any reason the system fails to operate, the system shall be replaced or repaired within 48 hours.

When the microcomputer system is no longer required, the Construction Management software system including original user/operator guide manuals, program disks, and all data files (including those stored on external media: USB flash drives, CD-R's, ZIP disks, etc.) will be removed by the Engineer and delivered to the District Engineer and become the property of the Administration. The remaining microcomputer system shall remain the property of the Contractor.

CATEGORY 100
PRELIMINARY

SECTION 104 — MAINTENANCE OF TRAFFIC

104.01 TRAFFIC CONTROL PLAN (TCP).

104.01.01 DESCRIPTION.

149 **DELETE:** The fourth paragraph sentence “Refer to contract Documents for Work Restrictions.” in its entirety.

INSERT: The following.

Work Restrictions. The Engineer reserves the right to modify or expand the methods of traffic control or working hours as specified in the Contract Documents. Any request from the Contractor to modify the work restrictions shall require written approval from the Engineer at least 72 hours prior to implementing the change. The Contractor shall submit a copy of the original work restrictions with the written request.

Work is not permitted on Saturdays or Sundays.

Work is not permitted on the holidays, or work day preceding and following holidays indicated below with an “X”:

- New Year's Day, January 1
- Martin Luther King's Birthday, the third Monday in January
- President's Day, the third Monday in February
- Good Friday
- Easter Weekend
- Memorial Day, the last Monday in May
- Independence Day, July 4
- Labor Day, the first Monday in September
- Columbus Day, the second Monday in October
- Veteran's Day, November 11
- Thanksgiving Day, the fourth Thursday in November
- Christmas Day, December 25

TEMPORARY LANE OR SHOULDER CLOSURE SCHEDULE			
ROADWAY	# LANE(S) / SHOULDER CAN BE CLOSED	DAY OF THE WEEK	CLOSURE PERIOD (TIME OF DAY)
I-495 From Potomac River to I-270	0/0	Mon – Fri	5:00 AM-9:00AM
	1/1	Mon – Fri	9:00 AM –3:00 PM
	0/0	Mon – Fri	3:00 PM-8:00 PM
	1/1	Sun – Thus	8:00 PM-10:00 PM
	2/1	Sun – Thus	10:00 PM-5:00 AM
	3/1	Sun – Thus	10:00 PM-5:00 AM
Note: 3 lanes closure form 10:00 to 5:00. On the 5 lanes traffic: Provide enough distance from exit gore area for the on ramp merging vehicles RAMPS Closed	Full closure W/detour	Sun – Thus	10:00PM – 5:00AM

149 **ADD:** The following after the last paragraph, “Any monetary savings...and the Administration.”

When closing or opening a lane on freeways, expressways, and roadways with posted speed ≥ 55 mph, a work vehicle shall be closely followed by a protection vehicle (PV) during installation and removal of temporary traffic control devices. The PV shall consist of a work vehicle with approved flashing lights, a truck-mounted attenuator (TMA) with support structure designed for attaching the system to the work vehicle, and arrow panel (arrow mode for multilane roadways and caution mode on two-lane, two-way roadways) The work vehicle size and method of attachment shall be as specified in the TMA manufacture’s specification as tested under NCHRP Test Level 3.

When a temporary lane or shoulder closure is in effect, work shall begin within one hour after the lane is closed. Any delay greater than one hour with no work in progress shall require the Contractor to remove the lane closure at no additional cost to the Administration. The Contractor's Traffic Manager shall attend Pre-Construction and Pre-

SPECIAL PROVISIONS
104.01 — TRAFFIC CONTROL PLAN

CONTRACT NO. MO4505168
3 of 3

Paving Meetings and shall discuss traffic control and the Traffic Control Plan including procedures to be implemented for lane closures.

All closures shall be in conformance with the approved TCP and under the direction of the Contractor's Traffic Manager and the Engineer.

Workers and equipment, including temporary traffic control devices needed for setting up a lane closure or restriction, are prohibited in the lane or shoulder to be closed or restricted before the time permitted in the Contract work restrictions unless otherwise noted below or as approved by the Engineer.

Temporary traffic control devices to be used for lane/shoulder closure may be placed on the shoulder of the roadway by workers no earlier than 30 minutes prior to actual time lane/shoulder closure or restriction is permitted. Temporary traffic signs may be displayed to traffic at this time.

Workers shall not enter a lane open to traffic. Workers may be present on shoulders to prepare for lane closure setup no earlier than 30 minutes prior to actual time lane/shoulder closure or restriction is permitted.

All temporary lane or shoulder closures shall be restored at the end of the closure period and no travel lane shall be reduced to less than 10 ft. Prior to opening the closed lane or shoulder, the Contractor shall clear the lane or shoulder of all material, equipment, and debris.

Failure to restore full traffic capacity within the time specified will result in a deduction being assessed on the next progress estimate in conformance with the following. This is in addition to the requirements specified in TC-4.02.

ELAPSED TIME, MINUTES	DEDUCTION
1 - 5	<u>\$ 50.00</u>
Over 5	<u>\$ 50.00</u> per Minute (In addition to the Original 5 minutes)

SPECIAL PROVISIONS

CONTRACT NO. MO4505168

104.11 — TEMPORARY PAVEMENT MARKINGS

1 of 2

**CATEGORY 100
PRELIMINARY**

SECTION 104 — MAINTENANCE OF TRAFFIC

168 **DELETE**: Section 104.11 TEMPORARY PAVEMENT MARKINGS. in its entirety.

INSERT: The following.

104.11 TEMPORARY PAVEMENT MARKINGS.

104.11.01 DESCRIPTION. Furnish, install, and remove temporary pavement markings as specified in the Contract Documents or as directed by the Engineer. These markings shall include lines, letters, numbers, arrows, and symbols.

104.11.02 MATERIALS.

Removable Preformed Pavement Marking Material	Refer to the
Nontoxic Lead Free Waterborne Pavement Markings	Contract Documents
Black Out Tape	QPL

104.11.03 CONSTRUCTION.

104.11.03.01 Quality Assurance/Quality Control. Quality control testing shall be completed by the Contractor’s Administration certified technicians. The Engineer will complete the quality assurance checks in conformance with MSMT 729 by performing the Nighttime Visibility Evaluations.

104.11.03.02 Warranty Period. The Contractor shall maintain and be responsible for any defects in the pavement markings for a period of 180 days from the date of application. The Contractor shall replace the pavement markings as necessary within this period as directed by the Engineer at no additional cost to the Administration. Refer to GP-5.11.

104.11.03.02 Application and Removal. The pavement markings shall be applied in conformance with the manufacturer’s recommendations and the Contract Documents. Markings shall be applied in the same direction as the flow of traffic. The markings shall be located as specified in the Contract Documents or as directed by the Engineer.

Pavement markings may be applied to either new or existing paved surfaces. When applied to newly paved surfaces, the markings shall be placed before traffic is allowed on the pavement. Nontoxic lead free waterborne pavement markings shall be used for all temporary pavement markings except for the final surface. However, the Contractor may use removable preformed pavement markings at no additional cost to the Administration.

When at the “end of season”, the temperatures are too low to allow the placement of removable tape on the final surface, a written exception request may be submitted to the Engineer to allow the use of nontoxic lead free waterborne paint in lieu of removable tape until the following striping season.

When it is appropriate to shift lanes, all nonapplicable pavement markings within the travel way and adjacent to the travel way as directed by the Engineer shall be completely removed.

SPECIAL PROVISIONS

CONTRACT NO. MO4505168

104.11 — TEMPORARY PAVEMENT MARKINGS

2 of 2

Surface Condition. Prior to application of pavement markings, the pavement surface shall be clean, dry, and free of all contaminants, including curing compound, dirt, and loose particles. Residual pavement markings shall be removed. Loose or poorly constructed markings shall also be removed.

Pavement Marking Removal. All removable preformed pavement markings shall be completely removed prior to application of the permanent markings. On stage construction or final surfaces of portland cement concrete pavements, any objectionable adhesive residue shall be removed by water blasting or other methods as may be approved by the Engineer. Open flame is prohibited to remove adhesive residue, or any pavement markings. The Contractor shall remove all nonapplicable pavement markings so that there is no damage to the existing or final surface.

Retroreflectance. The initial retroreflectance readings for temporary pavement markings shall be a minimum of 250 and 150 millicandellas/lux/square meter for white and yellow, respectively. The Engineer will monitor the pavement markings in conformance with MSMT 729 during the Contractor's 180 day period of responsibility.

104.11.04 MEASUREMENT AND PAYMENT. Payment for Removable Preformed Pavement Markings, Removal of Removable Preformed Pavement Markings, Nontoxic Lead Free Waterborne Pavement Marking Paint, and the Removal of Existing Pavement Markings will be measured and paid for using one or more of the items listed below and as specified in the Contract Documents.

The payment will be full compensation for furnishing, placing, complete removal of lines, letters, numbers, arrows, symbols, and the removal of all residue. In addition, payment will cover maintenance and replacement during the 180 day period, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. Removal and replacement of temporary pavement markings required beyond the 180 day period will be measured and paid for at the Contract unit price for the pertinent temporary pavement marking item.

Temporary markings replaced during the 180 day period as a result of plowing (as determined by the Engineer) will be paid for at the Contract unit price for the pertinent temporary marking item.

- (a) Nontoxic Lead Free Waterborne Pavement Marking Paint-in width specified-per linear foot.
- (b) Removable Preformed Pavement Line Markings-in width specified-per linear foot.
- (c) Removable Preformed Letters, Symbols, Arrows, and Numbers per each.
- (d) Removal of Removable Preformed Pavement Markings-any width-per linear foot.
- (e) Removal of Removable Preformed Letters, Symbols, Arrows and Numbers per each.
- (f) Removal of Existing Pavement Line Markings-any width per linear foot.
- (g) Removal of Existing Letters, Symbols, Arrows, and Numbers per each.
- (h) Black Out Tape Lines-in width specified-per linear foot.
- (i) Removal of Black Out Tape Lines-any width-per linear foot.

CATEGORY 100
PRELIMINARY

SECTION 104 — MAINTENANCE OF TRAFFIC

104.21 CELLULAR TELEPHONES.

104.21.01 DESCRIPTION. Furnish and maintain new or like new cellular telephones for use by the appropriate Administration personnel. Each telephone shall be furnished with a hands-free device and be delivered to the Engineer at time of Notice to Proceed, fully activated and operational. They shall remain operational until returned to the Contractor at final acceptance of the entire project in conformance with GP-5.13.

104.21.02 MATERIALS.

Cellular Telephones

As approved by the Engineer

104.21.03 CONSTRUCTION. Not applicable.

104.21.04 MEASUREMENT AND PAYMENT. The number of cellular telephones required for this Contract is **THREE**. The cellular telephones will not be measured but will be incidental to the Contract price for Maintenance of Traffic unless otherwise specified in the Contract Documents. The payment will be full compensation for furnishing the telephones and hands-free devices, activation fees, battery replacement, monthly service fees, extended coverage charges, air time (peak and nonpeak time per minute), roaming rates, long distance fees in conformance with the schedules provided, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. If any of the telephones become defective, are stolen, or for any other reasons do not function as intended, they shall be replaced in-kind at no additional cost to the Administration. Nonfunctioning or stolen telephones shall be replaced within eight hours after the Contractor is notified by the Engineer.

Ownership of the telephones will remain with the Contractor. The Administration assumes no responsibility or liability for the condition of the telephones when they are returned.

CATEGORY 100
PRELIMINARY

SECTION 113 — DIGITAL CAMERA

113.01 DESCRIPTION. Furnish a new or like new digital camera with a Color Inkjet Printer for use by Administration personnel. The digital camera and printer shall be delivered to the Engineer at the time of the Notice to Proceed. They shall remain operational and not be returned to the Contractor until final acceptance of the entire project, in conformance with GP-5.13.

113.02 MATERIALS.

(a) **Digital Camera.** The digital camera shall meet the following requirements and be furnished with the specified accessories:

- (1) Windows 2000, ME, XP compatible operating system
- (2) Photo Suite, Photo Deluxe, Picture Works, Photo Shop, or similar Photo Managing Software
- (3) 4.0 megapixel image resolution (minimum)
- (4) 3X optical zoom (minimum)
- (5) Two (2) sets of rechargeable batteries
- (6) SmartMedia Card or memory stick (512 MB minimum)
- (7) Pop-up or built-in flash modes
- (8) All items required for quick downloading
- (9) Auto-quick focus
- (10) Lens Cover, Shoulder Strap, and Carrying Case
- (11) AC adapter and Battery Charger

(b) **Color Inkjet Printer.** The printer shall conform to the following minimum requirements:

- (1) Resolution of 2400 x 1200 DPI (dots per inch).
- (2) Print speed of 17 PPM (pages per minute) for black and white and 13 PPM for color.
- (3) Memory 8 MB.
- (4) Duty cycle of 5000 pages/month.

Office-jets and Bubble-jets will not be accepted.

113.03 CONSTRUCTION. Not applicable.

113.04 MEASUREMENT AND PAYMENT. The digital camera will not be measured but the cost will be incidental to the Contract price for Maintenance of Traffic unless otherwise specified in the Contract Documents. If the digital camera or printer becomes defective, is stolen, or for any other reason does not function as intended, it shall be replaced with an approved camera or printer at no additional cost to the Administration. A nonfunctioning or stolen camera or printer shall be replaced within eight hours after the Engineer notifies the Contractor.

Ownership of the camera and printer will remain with the Contractor. The Administration assumes neither responsibility nor liability for the condition of the camera when returned.

CATEGORY 300
DRAINAGE

SEQUENCE OF CONSTRUCTION

1. Erosion and Sediment Control devices and/or measures, if applicable, are to be installed prior to any excavation or disturbance within the project limits.
2. Complete inlet replacements and repairs according to the Drainage Structure Schedules, replace traffic barriers and complete pavement resurfacing within project limits.
3. No disturbed area shall be left unstabilized overnight unless the runoff is directed to an approved sediment control device.
4. Erosion and Sediment Control devices and/or measures, if applicable, are to remain in place until their removal is approved by the Engineer.

CATEGORY 300
DRAINAGE

SECTION 305 - MISCELLANEOUS STRUCTURES

305.01 DESCRIPTION.

234 **DELETE:** 305.01 DESCRIPTION in its entirety

INSERT: The following.

305.01 DESCRIPTION

This work shall consist of removing existing curb openings and replacing with COG or COS openings, removing and replacing existing inlets with cast-in-place concrete or precast concrete inlets, replacing inlet grates, top slabs, and concrete pads over I-beams as well as patching deteriorated inlet walls at locations as specified in the Contract Documents or as directed by the Engineer.

305.03 CONSTRUCTION.

236 **INSERT:** The following after the last paragraph.

Replacing Existing Inlets. Contractor shall saw cut existing pavement, and existing curb as needed when the inlet is adjacent to curb. A concrete encasement using Mix. No. 3 shall be constructed around the new inlet as specified in the Contract Documents or as directed by the Engineer. The curb and gutter sections that are removed for replacement of inlets shall be reconstructed according to Sections 602 to match and align with the existing curb and gutter to the satisfaction of the Engineer. When existing traffic barrier W beam interferes with the work required for any type of inlet repair, Contractor shall remove the section of interfering W beam as directed by the Engineer and reset the W beam upon completion of the inlet work to the satisfaction of the Engineer.

Replacing Existing Inlet Grates. In cases where the standard grate as specified in the Contract Documents do not match the existing inlet frame, the Contractor shall field modify the standard grate so that the grate can fit to the existing inlet frame to the satisfaction of the Engineer.

305.04 MEASUREMENT AND PAYMENT.

237 **INSERT:** The following after Section 305.04.06

305.04.07 COG/COS Opening will be measured and paid for at the Contract unit price per each. The payment will be full compensation for all excavation, disposal, concrete, masonry, special or precast units, reinforcement, tie devices, No. 57 aggregate, grade and slope adjustments, backfill and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

305.04.08 Replace Bridge Scupper Grate will be measured and paid for at the Contract Unit Price per each. The payment will be full compensation for removal and disposal of existing grate, field measurement and field adjustment of replacement grate castings, galvanizing, welding, anchoring, and for all material, labor, equipment, tools and incidentals necessary to complete the work. Any damage to the existing inlet structures shall be corrected to the satisfaction of the Engineer.

305.04.09 Replace Type S Inlet Grate will be measured and paid for at the Contract Unit Price per each. The payment will be full compensation for removal and disposal of existing grate, field measurement and field adjustment of replacement grate castings, galvanizing and for all material, labor, equipment, tools and incidentals necessary to complete the work. Any damage to the existing inlet structures shall be corrected to the satisfaction of the Engineer.

305.04.10 Replace Type K Inlet Grate will be measured and paid for at the Contract Unit Price per each. The payment will be full compensation for removal and disposal of existing grate, field measurement and field adjustment of replacement grate castings, galvanizing, and for all material, labor, equipment, tools and incidentals necessary to complete the work. Any damage to the existing inlet structures shall be corrected to the satisfaction of the Engineer.

305.04.11 Replace existing inlet top slab, replace concrete pad between I-beam and grate and patch minor cracks or spalling on inlet walls using Mix No. 3 concrete will be measured and paid for at the Contract unit price per cubic yard of Mix 3 Concrete for Miscellaneous Structures. The payment will be full compensation for all excavation, concrete, reinforcement, tie devices, backfill, replacement of frame and resetting of grates and for all material, labor, equipment, tools, and incidental necessary to complete the work.

305.04.12 Type D Frame and Cover for Manhole used on the replacement inlet top slab for existing NRM inlet will be measured and paid for at the Contract unit price per each.

305.04.13 Remove and Reset Existing Traffic Barrier W Beam for inlet replacement, inlet top unit replacement, or inlet frame replacement will be measured and paid for as specified in 605.04.04.

305.04.14 When replacing an existing inlet with a new inlet, the cost to saw cut existing pavement and/or curb adjacent to the inlet and construct concrete encasement around inlet to tie in to existing pavement and curb sections will be incidental to the cost of the new inlet.

**CATEGORY 300
DRAINAGE**

**SECTION 308 — EROSION AND SEDIMENT
CONTROL**

308.01 DESCRIPTION.

253 **ADD:** The following after the third paragraph.

General Notes.

(a) **MDE Notification.** If an Erosion and Sediment Control Permit is issued for this project, notify the Administration and MDE in writing or by telephone (410) 537-3510 at the following points:

- (1) Pre-construction meeting.
- (2) Erosion and sediment control meeting (minimum 7 working days prior to commencing earth disturbing activities).
- (3) Following installation of initial sediment control measures.
- (4) During installation of major sediment control basins/traps.
- (5) Prior to removal or modification of any sediment control structures.
- (6) Prior to removal of all sediment control devices.
- (7) Prior to final acceptance by the Administration.

(b) **Ingress/Egress Controls.** Protect all points of construction ingress and egress to prevent the deposition of materials on public roads. Immediately remove all materials deposited on public roads. The flushing of road surfaces is prohibited.

Control all ingress and egress points through the use of a stabilized construction entrance conforming to 308.03.30.

(c) **Inspection.** Inspect all erosion and sediment control measures daily and maintain continuously in an effective operating condition.

(d) **Shutdowns and/or Penalties.** Total compliance with the approved erosion and sediment control plan is expected at all times. In cases where the Contractor is found to be in non-compliance, the Administration may take steps to impose selected or total shutdowns and impose per day penalties for non-compliance.

The Administration may impose a total or partial shutdown if the project may adversely impact the waters of the State.

(e) **Record Keeping.** Make the project's approval letter, approved erosion and sediment control plans, approved change requests, daily log books and test reports available on-site for inspection by duly authorized officials of MDE.

- (f) **Erosion and Sediment Control Excavation.** Place silt removed from control devices in an approved waste site either on or off the project. Material stored on-site may be reused once it is dried and if it conforms to the Administration's requirements for embankment or any unspecified need.
- (g) **Off-Site Utility Work.** Follow these additional best management practices for sediment control for utility construction in areas outside of designed controls:
- (1) Call "Miss Utility" at 1-800-257-7777 48 hours prior to the start of work.
 - (2) Place excavated material on the high side of the trench.
 - (3) Backfill, compact and stabilize trenches for utility installations at the end of each working day. When this is not possible, follow (4).
 - (4) Place temporary silt fences immediately downstream of any disturbed area intended to remain disturbed for more than one day.
- (h) **Sensitive Areas.** No construction activities are allowed within specified sensitive areas of the project without prior notification of the Engineer. Designate a responsible party to monitor all work in these areas to assure that reasonable care is taken in or adjacent to these areas. Areas considered sensitive are defined as: floodplains, wetlands (tidal, nontidal and associated buffers) critical areas, forested areas, archeological sites, historic sites, parkland, and open water.
- (i) **Standard Stabilization Note.** Following initial soil disturbance or redisturbance, complete permanent or temporary stabilization within seven (7) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1); and fourteen days (14) as to all other disturbed or graded areas on the project site.
- (j) **Site Information (Not for Bidding Purposes).**
- | | | |
|--|------|-------------|
| (1) Total area of site | 0.1 | acres |
| (2) Area disturbed | 0.1 | acres |
| (3) Area to be roofed or paved | 0 | acres |
| (4) Total cut | 60.0 | cubic yards |
| (5) Total fill | 0.0 | cubic yards |
| (6) Off-site waste/borrow area location (if known) | N/A | |
- (k) **Incremental Stabilization.** Refer to the current Maryland Standards and Specifications for Soil Erosion and Sediment Control for the incremental stabilization of cuts and fills.
- (l) **Disturbed Areas.** Place excavated trench material for any storm drain pipe and underdrain pipe installation on the high side of the trench. Backfill, compact, and stabilize trenches for any storm drain pipe and underdrain pipe installations at the end of each working day.

Stabilize all other disturbed areas at the end of the working day. Place silt fence downgrade of any areas that cannot be stabilized at the end of the work day such that all runoff from the disturbed area will be filtered.

- (m) **Removal of Controls.** Establish permanent stabilization for all contributory disturbed areas and obtain permission from MDE and the Administration prior to prior to the removal of sediment control measures.

Immediately stabilize any areas disturbed by the removal of sediment control measures.

- (n) **Notice of Enforcement.** Sediment and erosion control regulations will be strictly enforced.

308.05 DESIGN CERTIFICATION

Insert: The following:

ENVIRONMENTAL INFORMATION

MDE # N/A

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II, AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT EROSION AND SEDIMENT AND STORMWATER MANAGEMENT REGULATIONS."

James Krampert
NAME

James Krampert
SIGNATURE

12711
MARYLAND REGISTRATION NUMBER

1-28-09
DATE

P.E., R.L.S. OR R.L.A. (circle)

"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. 12711, EXPIRATION DATE: 11-22-09."

**CATEGORY 300
DRAINAGE****SECTION 308 — EROSION AND SEDIMENT
CONTROL****308.01 DESCRIPTION.****308.01.04 Incentive/Liquidated Damages Payments.**

Delete: The entire paragraph.

INSERT: The following.

The total incentive awarded for this Contract will not exceed \$7,500. The rating quarter incentive payment for this contract is \$750. A final incentive payment for this contract is \$3,750 less the total quarterly incentives paid during a contract extension.

For each day that the project has a 'D' rating the Contractor and/or his surety shall be liable for liquidated damages in the amount of \$3,154 per day. Failure to upgrade the project to the minimum of a 'B' rating within 72 hours will result in the project being rated 'F'.

For each day that the project has an 'F' rating the Contractor and/or his surety shall be liable for liquidated damages in the amount of \$4,147 per day.

CATEGORY 500
PAVING

SECTION 504 — HOT MIX ASPHALT PAVEMENT

504.04 MEASUREMENT AND PAYMENT.

478 **DELETE:** 504.04.01 Price Adjustment for Asphalt Binder in its entirety.

INSERT: The following.

504.04.01 Price Adjustment for Asphalt Binder. A Price Adjustment (PA) will be made to provide additional compensation to the Contractor or a credit to the Administration for the fluctuation in the cost of asphalt binder.

For adjustment purposes, the prevailing base index price will be the price specified for PG 64-22 Asphalt Binder currently posted at www.marylandroads.com (Business with SHA/Contracts, Bid, and Proposals) prior to bid opening. Cost differentials between PG 64-22 and a binder specified shall be included in the price bid per ton for Hot Mix Asphalt. A historical database will be maintained by the Administration

The PA will be made when the index price for the month of placement increases or decreases more than 5 percent of the prevailing base index price. Computations will be as follows:

$$\text{Percent Change} = ((P_p - P_b) / P_b) \times 100$$

$$PA = T \times Q \times ((P_p - (D \times P_b))$$

Where:

- PA = Price Adjustment for the current month
- T = Design target asphalt content expressed as a decimal
- Q = Quantity of Hot Mix Asphalt placed for the current month
- P_p = Index price for PG 64-22 Asphalt Binder per ton for the month of placement
- D = 1.05 for increases over 5 percent; 0.95 for decreases over 5 percent
- P_b = Prevailing base index price for PG 64-22 Asphalt Binder per ton

PA resulting in increased payment to the contractor will be paid under the item Price Adjustment for Asphalt Binder. The item amount will be established by the Administration and shall not be revised by the Contractor. PA resulting in a decreased payment will be deducted from monies owed the Contractor.



CATEGORY 500
PAVING

SECTION 504 — HOT MIX ASPHALT PAVEMENT

504.04 MEASUREMENT AND PAYMENT.

477 **DELETE**: 504.04.02 Payment Adjustments for Pavement Density and Hot Mix Asphalt Mixture in its entirety.

INSERT: The following.

504.04.02 Payment Adjustments for Pavement Density and Hot Mix Asphalt Mixture. Payment adjustments for pavement density will be based on individual subplot core test data for a given lot and the lot average density as specified in this section and Table 504A. Payment reductions for density and for mixture will be made by adjusting the payment for Hot Mix Asphalt. Incentive payments will be made using the Contract items for HMA Density Incentive and HMA Mix Design Incentive. The item amounts will be established by the Administration and shall not be revised by the Contractor. Payment reductions for density will be waived for portions of the pavement where the Engineer determines that inadequate density is due to a poor foundation.



SPECIAL PROVISIONS INSERT
504 — HOT MIX ASPHALT PAVEMENT

TABLE 504A		
Dense Graded HMA Mixes – Percent of Maximum Density		
Lot Average % Minimum	No Individual Sublot Below %*	Pay Factor
94.0	94.0	1.050
93.8	93.7	1.045
93.6	93.4	1.040
93.4	93.1	1.035
93.2	92.8	1.030
93.0	92.5	1.025
92.8	92.2	1.020
92.6	91.9	1.015
92.4	91.6	1.010
92.2	91.3	1.005
92.0	91.0	1.000
91.8	90.8	0.990
91.6	90.6	0.980
91.4	90.4	0.970
91.2	90.2	0.960
91.0	90.0	0.950
90.8	89.8	0.940
90.6	89.6	0.930
90.4	89.4	0.920
90.2	89.2	0.910
90.0	89.0	0.900
89.8	88.8	0.890
89.6	88.6	0.880
89.4	88.4	0.870
89.2	88.2	0.860
89.0	88.0	0.850
88.8	87.8	0.840
88.6	87.6	0.830
88.4	87.4	0.820
88.2	87.2	0.810
88.0	87.0	0.800
Less than 88.0	87.0	0.750 or rejected by Engineer

Note 1: When any test data is above 97.0, the lot may be rejected per the Engineer. When not rejected, the lot will receive a pay adjustment in accordance with the following:

- (a) When the density lot average is above 97.5, the pay factor = 0.750
- (b) When 3 sublot densities are above 97.0, the pay factor = 0.950
- (c) When 4 or more sublot densities are above 97.5, the pay factor = 0.750

Note 2: Pay incentive or pay disincentive will not be paid for placements identified as wedge/level courses or thin lift courses.

*Note 3: When the Contractor's core specific gravity data does not compare with the Administration's core specific gravity data, only the Administration's single sublot values and lot average value will be used in acceptance decision.

*Note 4: The average sublot values and the lot average will be used in acceptance decision.



SPECIAL PROVISIONS INSERT
504 — HOT MIX ASPHALT PAVEMENT

CONTRACT NO. MO4505168
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Acceptance of a mixture lot will be in conformance with Sections 904, 915, and MSMT 735. A composite pay factor (CPF) for asphalt content and gradation will be based on the total estimated percent of the lot that is within Specification limits as computed using the quality level analysis in conformance with MSMT 735.

Payment adjustments will be computed as follows:

$$\text{Density Lot Payment Adjustment} = (\text{DF} - 1) \times (\text{CP}) \times (\text{TL})$$

$$\text{Mix Design Lot Payment Adjustment} = (\text{MF} - 1) \times (\text{CP}) \times (\text{TL})$$

where:

- DF = Density pay factor from Table 504A
- MF = Mixture pay factor $[0.55 + (0.5 \times \text{CMPWSL})]$
Refer to MSMT 735 for CMPWSL.
- CP = Contract unit price
- TL = Applicable tonnage per lot

An in-place density lot containing material with a pay factor of less than 1.000 may be accepted at the reduced pay factor, provided the pay factor for density is at least 0.800 and there are no isolated defects.

A mixture lot containing material with a pay factor of less than 1.000 may be accepted at the reduced pay factor, provided the composite pay factor for asphalt content and grading is at least 0.750 and there are no isolated defects.

An in-place density lot containing nonconforming material that fails to obtain at least a 0.800 pay factor and a mixture lot containing nonconforming material that fails to obtain at least a 0.750 pay factor for asphalt content and gradation will be evaluated to determine acceptance. Any lot that is rejected shall be replaced.

When less than five Quality Control or Quality Assurance samples per in-place density lot have been obtained, the lot will not be evaluated for incentive payment.

When less than three mix samples have been obtained at the time of the acceptance sampling or at the time a lot is terminated, the Engineer will determine if the material in a shortened lot will be considered a part of the previous lot or whether it will be accepted based on the individual test data.



**CATEGORY 500
PAVING**

486 **DELETE:** SECTION 506 — GAP-GRADED HOT MIX ASPHALT in its entirety.

INSERT: The following.

SECTION 506 — GAP-GRADED STONE MATRIX ASPHALT

506.01 DESCRIPTION. Place gap-graded stone matrix asphalt surface (GG SMA) as specified. GG SMA shall conform to Section 504, except as specified herein.

506.02 MATERIALS.

Gap-Graded Stone Matrix Asphalt	904.05
Production Plant	915

506.03 CONSTRUCTION.

506.03.01 Demonstration. Before proceeding with the actual work, the Contractor shall demonstrate to the Engineer that a satisfactory mix can be produced, placed, and the compactive effort determined. A minimum of 100 tons of GG SMA shall be placed outside the project limits for the demonstration. A new strip will be required if a project carries over to a new season. Paver and rollers shall conform to 504.03.01. A material transfer vehicle may be used as part of the demonstration strip.

506.03.02 Hauling Units. Dry soap powder, as approved by the Engineer, may be used with the release agent specified in 915.02(f). Truck beds shall be raised to drain excess water before being loaded with GG SMA.

A light dusting of No. 10 aggregate coated with 1 percent asphalt may be used in lieu of the liquid release agent.

The time between plant mixing and shipment shall not exceed one hour (storage time may vary depending upon gradation, type of binder and/or stabilizer. Storage material shall consistently have results of no less quality than mixtures discharged directly into hauling vehicles). Each load shall be completely covered with a full tarp extending a minimum of 6 in. over each side of the truck body and securely fastened.

506.03.03 Weather Restrictions. Placement of GG SMA will be permitted only when the ambient and surface temperatures are at least 50 F and in accordance with 504.03.02.

506.03.04 Material Transfer Vehicle (MTV). Use a material transfer vehicle to apply the final surface course. The MTV shall perform additional mixing of the Gap-Graded SMA material and then deposit the mixture into the paver at a uniform temperature and consistency.



SPECIAL PROVISIONS INSERT
506 – GAP GRADED STONE MIX ASPHALT

CONTRACT NO. MO4505168
2 of 4

506.03.05 Mix Temperature. The minimum temperature of the mixture at the time of placement shall be established during the mix design procedure.

506.03.06 Pavement Thickness. The thickness of the pavement shall be as specified in the Contract Documents. Thin Lift specification 504.03.12 is not applicable to GGSMA.

506.03.07 Tack Coat. Refer to 504.03.04 except that, the resulting coating shall be residual asphalt applied at a rate of 0.03 to 0.05 gal/yd².

506.03.08 Compaction. Compaction shall be performed using a minimum of three steel-wheeled rollers, each weighing 10 to 12 tons. The rollers shall follow the paver within 500 ft. or roll as approved in the QC Plan. Rolling shall start immediately after placement. In place density shall conform to 504.03.11 (c), except that the density shall be 94 to 97 percent of maximum density. Sampling and testing shall be performed as specified in 504.03.11.

The rollers shall be equipped with a watering or soapy watering system that prevents material from sticking to the rollers.

506.03.09 Control Strip. The Contractor may opt to construct a control strip for guidance in determining roller patterns to achieve optimum density. When a control strip is constructed, it shall be placed on the first workday in which SMA is placed and shall be between 400 and 500 ft in length. Based on the Contractor's evaluation of the initial control strip, paving may continue at the Contractor's risk.

The Contractor will not be assessed a density pay adjustment for the amount of material required for construction of the control strips. Should the removal of any control strip be necessary, the Contractor shall remove it at no additional cost to the Administration.

The Engineer may require the Contractor to construct a control strip any time during placement of SMA based on the evaluation of compaction results.

506.03.10 Pavement Profile. Refer to the Pavement Surface Profile requirements specified in the Contract Documents.

506.03.11 Sampling and Testing for Density and Mixture. For sampling and testing for density and mixture refer to 504.03.10 and 11.

506.04 MEASUREMENT AND PAYMENT. Stone Matrix Asphalt Gap-Graded will be measured and paid for at the Contract unit price per ton, complete and in place. The payment will be full compensation for furnishing, hauling, placing all materials, material transfer vehicle, antistripping additive, tack coat, control strips, setting of lines and guides where specified, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

Material produced for the demonstration will not be measured but the cost will be incidental to the item GGSMA.



SPECIAL PROVISIONS INSERT
506 – GAP GRADED STONE MIX ASPHALT

CONTRACT NO. MO4505168
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506.04.01 Price Adjustment for Stone Matrix Asphalt Mixture and Pavement Density.
Refer to 504.04 except as follows:

GAP GRADED STONE MATRIX ASPHALT MIXES		
PERCENT OF MAXIMUM DENSITY		
LOT AVERAGE MINIMUM (%)	NO INDIVIDUAL SUBLLOT BELOW (%)	PAY FACTOR (%)
95.0	95.0	105.0
94.9	94.8	104.5
94.8	94.6	104.0
94.7	94.4	103.5
94.6	94.2	103.0
94.5	94.0	102.5
94.4	93.8	102.0
94.3	93.6	101.5
94.2	93.4	101.0
94.1	93.2	100.5
94.0	93.0	100.0
93.8	92.7	99.0
93.6	92.4	98.0
93.4	92.1	97.0
93.2	91.8	96.0
93.0	91.5	95.0
92.8	91.2	94.0
92.6	90.9	93.0
92.4	90.6	92.0
92.2	90.3	91.0
92.0	90.0	90.0
91.8	89.7	89.0
91.6	89.4	88.0
91.4	89.1	87.0
91.2	88.8	86.0
91.0	88.5	85.0
Less than 91.0	—	75.0 or rejected per Engineer

Note 1: When any test data is above 97.0, the lot may be rejected per the Engineer. When not rejected, the lot will receive a pay adjustment in accordance with the following:

- (a) When the density lot average is above 97.5, the pay factor = 75%.
- (b) When 3 subplot densities are above 97.0, the pay factor = 95%.
- (c) When 4 or more subplot densities are above 97.5, the pay factor = 75%.



SPECIAL PROVISIONS INSERT
506 – GAP GRADED STONE MIX ASPHALT

CONTRACT NO. MO4505168
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- Note 2: Pay incentive or pay disincentive will not be paid for placements identified as wedge/level courses or thin lift courses.
- Note 3: When the Contractor's core specific gravity data does not compare with the Administration's core specific gravity data, only the Administration's single subplot values and lot average value will be used in acceptance decision.
- Note 4: The average subplot values and the lot average will be used in acceptance decision.

506.04.02 Dispute Resolution. Refer to 915.02.01, Responsibilities of the Administration, (e).

CATEGORY 500
PAVING

SECTION 535 — PAVEMENT SURFACE PROFILE

535.01 DESCRIPTION. This work shall consist of measuring the roughness of the final surface of Hot Mix Asphalt (HMA) or Portland Cement Concrete (PCC) pavements. The Contractor shall use an International Roughness Index (IRI) Inertial Profiler to collect Quality Control (QC) data. The IRI Inertial Profiler shall conform to E 950 and MSMT 563. The Administration will use an IRI Inertial Profiler to perform all Quality Assurance (QA) testing and acceptance. All traveled roadway surfaces shall be measured unless otherwise indicated in this Specification.

535.01.01 Existing Conditions. The following are the IRI values measured for this project:

IRI INDICATOR	REPORTED VALUES FOR BOTH WHEEL PATHS (in./mile)	REPORTED STATEWIDE VALUES (year) (in./mile)
Average	97	79
Maximum	300	483
Minimum	49	24
Standard Deviation	55	42

- NOTE 1: IRI is an abbreviation for the International Roughness Index developed under World Bank Technical Report No. 46.
- NOTE 2: IRI values were generated from pavement longitudinal profile measured in the outside travel lane in both directions of traffic.
- NOTE 3: The average, maximum, minimum, and standard deviation IRI values are based on intervals of 1/10 of a mile in length.
- NOTE 4: A definition of ride quality based on IRI, as defined by The Federal Highway Administration is given below:

IRI RANGE (in./mile)	RIDE QUALITY
< 60	Very Good
≥ 60 to < 95	Good
≥ 95 to ≤ 170	Fair
>170 to ≤ 220	Mediocre
> 220 to ≤ 640	Poor

535.02 MATERIALS. Not applicable.

535.03 CONSTRUCTION.

535.03.01 Equipment Standardization Testing. Standardization testing shall be completed on Administration specified sites at regular intervals in conformance with MSMT 563. Additional standardization testing may be required for a device that is potentially out of conformance between regular standardization tests. Standardization shall be completed and a copy of the results shall be on file at the Administration's Office of Materials Technology (OMT). QC test data obtained with a profiler that has not completed standardization testing in conformance with MSMT 563 will not be accepted.

535.03.02 Quality Control Testing for Pavement Profile. The finished surface of all pavements shall be measured with a profiler by the Contractor in conformance with MSMT 563 and E 950. Pavement profiles shall be measured in both wheel paths simultaneously, parallel to the right edge of the lane, and in the direction of travel for each lane. The Contractor shall establish and document in the HMA Field Quality Control Plan (504.03) or the PCC Proposed Paving Plan (520.03) a regular schedule of pavement profiling to verify conformance with these Specifications. The Contractor shall notify the Engineer prior to performing any QC testing. The Contractor's QC data shall be submitted to the Engineer, in accordance with the approved QC plan submitted to OMT, within 72 hours of completion of the paving operations.

Data Submittal. All submittals shall be sent to the Engineer, and to the Administration's OMT (in electronic format) via one of the following:

(a) **E-mail:** ridespec@sha.state.md.us

(b) **Delivered:** Office of Materials Technology
7450 Traffic Drive
Hanover, MD 21076
Attention: Paving Quality Assurance Team Leader

When any profile testing and data submission has not been completed within the specified times and in conformance with MSMT 563 for all sections on the project, the tested pavement will not be eligible for incentive payment as stated in 535.04.03(a). The Contractor's QC data will still be required for material clearance per Frequency Guide.

The QC IRI shall be determined using the Contractor's Inertial Profiler and shall be reported in sections equal to 25 ft in length and one lane in width. Tested sections shorter than 25 ft due to exempt areas or the project end shall be ignored. A full 25 ft section shall be started after each exempt area. Three runs shall be made as described in MSMT 563. The coefficient of variation of the overall average IRIs shall be less than or equal to 4 percent for three runs for the data to be accepted. When the first three runs do not meet the above criteria, additional runs shall be performed until three measured runs meet the criteria. All three runs shall be submitted to the Administration; however, only the median run (based on average IRI) will be considered from Contractor's QC data, and will be used to compute any pay adjustments.

(a) **Areas Not Profiled.** The following pavement areas shall not be profiled, and not reported for pay adjustment:

- (1) Shoulder areas.
- (2) Parking areas of ride sharing facilities or park and ride lots.
- (3) Pavements of ramps, side street tie-ins, acceleration lanes, or deceleration lanes less than 1000 ft in length.
- (4) Bridge decks or railroad crossings and pavement within 50 ft thereof.
- (5) Pavement within 50 ft of transverse joints that separate it from existing pavement. This does not apply when a transverse joint is paved on both sides as part of one contract.
- (6) Pavements on projects with less than 1000 center lane feet (after elimination of areas not to be profiled under items 1, 2, 3, 4, and 5 above.)

Pavement Surface Checks shall be performed on areas listed above in conformance with Section 504.03.12.

(b) **Defects.** When any section IRI is greater than IRI_c (table in 535.04), the Contractor shall take one of the following corrective actions, as directed and approved by the Engineer, at no additional cost to the Administration:

- (1) Remove and replace the pavement that exceeds IRI_c , or
- (2) Grind the section to bring the section IRI into conformance with these Specifications, or
- (3) Accept the Defect Cost (P_{defect} in 535.04) for any defect section where corrective action is not performed.

Items 1, 2, or 3 above shall be applied to each defect section as directed by the Engineer. Any approval from the Engineer to waive items 1 or 2 shall not constitute a waiver of item 3 unless explicitly stated by the Engineer. The Contractor shall reprofile all affected pavement sections, including any additional transverse paving joints created, after any corrective work to determine if the sections are within Specification. The reprofiled data shall include the section prior to the corrected sections and the four sections after the corrected sections. The reprofiled data shall be used for final pay calculations; however, the minimum IRI value for any corrected section shall be limited to IRI_c (table in 535.04).

Defects not due to Contractor's Workmanship. When the Engineer determines that a defect is not the result of the Contractor's workmanship, the Engineer shall provide a written justification for removing the defect from final pay calculations to the Administration's

OMT (Attention: Asphalt Technology Division). The Asphalt Technology Division will provide a concurrence/non-concurrence decision to the Engineer. In the case of concurrence, the defects found not due to the Contractor's workmanship shall not be included in final pay calculations. In the case of non-concurrence, the Engineer will discuss this matter with the Administration's OMT's Asphalt Technology Division before making the final determination of pay adjustment.

535.03.03 Paving Quality Assurance Testing for Pavement Profile (IRI). The Administration may test sections of the pavement to verify the Contractor's QC data. When the QA testing has not been performed within 14 calendar days from the date that the final, 100 percent QC data submittal is received by the Administration's OMT, only the QC data will be used for any pay adjustments on the project. The QA testing will follow the same procedures required in 535.03. The initial QA test will consist of one run on all 25 ft sections. The initial QA run and the median QC run will be compared to determine acceptance of QC data. The average IRI, the number of defects, and the number of tested sections will be compared as follows:

STATISTIC	UNIT	QC DATA TOLERANCE WITH RESPECT TO QA DATA
Average IRI	in./mile	$\pm (2 \% + 2)$
Number of Defects	Sections	$\pm (10 \% + 2)$
Number of Tested Sections	Sections	$\pm (1 \% + 1)$

When the Contractor's QC data falls within the above tolerances, the Contractor's QC data will be used for all pay adjustments. When the Contractor's QC data does not agree with the initial QA data as described above, and a cause cannot be identified, the Administration will profile a minimum of two additional QA runs. The three QA runs (one initial and two retests) will then be evaluated to determine if the coefficient of variation of the overall average IRIs is less than or equal to 4 percent for all three runs. When the three QA runs do not meet the above criteria, additional runs will be performed until three measured QA runs meet the criteria. The median run (based on average IRI) of the three QA runs will then be recompared with the Contractor's QC data in conformance with the above table.

When the QC and QA data are still not within the tolerances as described above for Average IRI or Number of Defects after three QA runs, both profilers shall be retested on a standardization test site to determine if either profiler no longer conforms to MSMT 563. When either profiler is out of standardization, the equipment shall be recalibrated or repaired as necessary to bring the device back into compliance with MSMT 563. When the Contractor's profiler is not restandardized and brought into compliance with MSMT 563 within three paving days, the Contractor shall cease the paving operation or use another standardized profiler for QC data collection. Once the Contractor's profiler complies with MSMT 563, the Contractor may retest sections for comparison with the Administration's data or accept the Administration's QA data as the basis for any pay adjustment on all sections. When the Administration's profiler is out of standardization, the Contractor's QC data for all sections will be accepted. When both profilers

are found to be in noncompliance with MSMT 563, the profilers shall be repaired or recalibrated as necessary and all QC and QA testing since the previous QC/QA comparison shall be repeated.

When the QC and QA data for Number of Tested Sections are not within the tolerance as described above, the Contractor and the Administration shall recalibrate their respective Distance Measuring Instruments (DMI) and perform additional QC testing until the QC data meets the tolerance criteria for Number of Tested Sections.

535.04 MEASUREMENT AND PAYMENT. Pavement surface profile testing costs will be incidental to the HMA surface material or PCC material as specified in the Contract Documents. Payment will be full compensation for all set up, technicians, traffic control, any type of corrective work to bring the pavement into conformance with this Specification, and for all material, labor, equipment, tools, and incidentals necessary to complete the work. The pay adjustment numbers for the Overall IRI (535.04.01) and for Defects (535.04.02) shall be calculated first. The pay adjustment for pavement surface profile applied on the Contract shall be the Total Pay Adjustment in conformance with 535.04.03.

535.04.01 Overall IRI. The overall average IRI for the project (IRI_{AVG}) will be calculated as the average IRI value of all tested 25 ft sections on the project. The pay adjustment for Overall IRI will then be calculated based on the factors shown below. This pay adjustment applies only to the pavement within the tested sections.

Incentive. $PF = P_{max}$, when IRI_{AVG} is less than or equal to IRI_a
 $PF = P_{max} \times (IRI_b - IRI_{AVG}) / (IRI_b - IRI_a)$, when IRI_{AVG} is greater than IRI_a
and less than IRI_b

$INCENTIVE = PF \times NS \times (25/5280 \text{ lane miles per section})$
 $DISINCENTIVE = 0$

Full Pay. When IRI_{AVG} is greater than or equal to IRI_b and less than or equal to IRI_c

$INCENTIVE = 0$
 $DISINCENTIVE = 0$

Disincentive. $PF = P_{min} \times (IRI_{AVG} - IRI_c) / (IRI_d - IRI_c)$, when IRI_{AVG} is greater than IRI_c
and less than IRI_d

$PF = P_{min}$, when IRI_{AVG} is greater than or equal to IRI_d

$INCENTIVE = 0$
 $DISINCENTIVE = PF \times NS \times (25/5280 \text{ lane miles per section})$

535.04.02 Defects. The IRI for each individual section on the project will be used to calculate any cost to be applied for defects on the project. The pay adjustment for defects will be calculated based on the factors shown below. This pay adjustment applies only to the pavement within the tested sections.

NS_{defect} = Number of sections with an IRI greater than or equal to IRI_e
 DEFECT COST = $P_{\text{defect}} \times NS_{\text{defect}}$

Where:

	DESCRIPTION	VALUE	UNITS
P_{max}	Maximum Incentive for Overall IRI	7,350	Dollars per lane-mile
P_{min}	Maximum Disincentive for Overall IRI	7,350	Dollars per lane-mile
P_{defect}	Defect Cost	350	Dollars per section
PF	Pay Factor for Overall IRI	*	Dollars per lane-mile
INCENTIVE	Incentive for Overall IRI	*	Dollars
DISINCENTIVE	Disincentive for Overall IRI	*	Dollars
DEFECT COST	Cost for Defects	*	Dollars
IRI_a	IRI for Maximum Incentive	40	Inches per mile
IRI_b	Minimum IRI for Full Pay	60	Inches per mile
IRI_c	Maximum IRI for Full Pay	70	Inches per mile
IRI_d	IRI for Maximum Disincentive	90	Inches per mile
IRI_e	IRI threshold for Defects	90	Inches per mile
IRI_{AVG}	Overall average IRI for the project	*	Inches per mile
NS	Number of tested 25 foot Sections	*	Sections
NS_{defect}	Number of 25 foot Defect Sections	*	Sections

* Value to be determined on the project.

+ The ride specification limits for P_{max} , P_{min} , P_{defect} , IRI_a , IRI_b , IRI_c , IRI_d , and IRI_e will be determined by the Engineer in conformance with 535.04.04.

535.04.03 Total Pay Adjustment. A total pay adjustment (TPA) will be made based on the total of any incentive and disincentive for Overall IRI minus any Defects. TPA resulting in increased payment to the Contractor will be paid under the item Pavement Surface Profile Pay Adjustment. This item amount has been established by the Administration and shall not be revised by the Contractor. TPA resulting in decreased payment will be deducted from monies owed the Contractor. The TPA shall be subject to conditions (a) and (b) below.

Total Pay Adjustment = INCENTIVE - DISINCENTIVE - DEFECT COST

- (a) Regardless of the measured profile of any test section, incentive payment will not be permitted for the project when the Contractor's QC data was not submitted on time in conformance with 535.03.02. All other sections of this Specification shall still apply.

Total Pay Adjustment = 0 - DISINCENTIVE - DEFECT COST

- (b) The total value of Overall IRI disincentive and Defect Cost shall not be more than the Maximum Disincentive pay adjustment for all of the profiled 25 foot sections.

If DISINCENTIVE + DEFECT COST is greater than $P_{\text{min}} \times NS \times (25/5280 \text{ lane miles per section})$
 then Total Pay Adjustment = $- P_{\text{min}} \times NS \times (25/5280 \text{ lane miles per section})$

CATEGORY 500
PAVING

SECTION 553 — LEAD FREE REFLECTIVE THERMOPLASTIC
PAVEMENT MARKINGS

553.01 DESCRIPTION. Prepare and apply lead free reflective thermoplastic pavement markings to roadway surfaces as specified in the Contract Documents or as directed by the Engineer.

553.02 MATERIALS.

Lead Free Reflective Thermoplastic Pavement Markings 951.02

553.03 CONSTRUCTION.

553.03.01 Quality Assurance/Quality Control. Refer to 549.03.01.

553.03.02 Application Equipment. An oil or air jacketed kettle shall be utilized for uniform melting and heating of the thermoplastic material. The kettle shall provide continuous mixing and agitation of the material. The kettle and the applicator shall be equipped with an automatic thermostatic device to provide positive temperature control.

The equipment shall be constructed so that all mixing and conveying parts, up to and including the application apparatus, maintains the material at the specified temperature. Conveying parts of the applicator between the reservoir and the application apparatus shall be constructed to prevent clogging and accumulation. The applicator shall be capable of containing a minimum of 600 lb of molten thermoplastic material.

The kettle and applicator shall be constructed and arranged to conform to the requirements of the National Board of Fire Underwriters (NBFU), the National Fire Protection Association (NFPA), and State and local authorities.

Temperature gauges shall be calibrated every six months and a copy of the calibration certification shall be submitted to the Engineer.

The applicator shall apply the surface dressing beads to the molten thermoplastic marking by means of a pressurized bead dispenser or other mechanical conveying method not dependent upon gravity for uniform application. The bead dispenser shall be equipped with an automatic cutoff system that will stop the flow of the thermoplastic material whenever there is a disruption in the application of the beads so that all markings placed shall be covered with a uniform layer of surface dressing beads.

Application equipment shall be capable of applying the markings at multiple width settings ranging from 4 to 12 in. as specified in the Contract Documents.

The applicator shall provide a method for cleanly cutting off stripe ends and shall be capable of applying all longitudinal pavement markings.

The equipment shall be mobile and maneuverable to the extent that straight lines can be followed and all standard curves can be made in true arcs.

All parts of the equipment shall be thoroughly cleaned of foreign material or different colored material prior to the introduction of a new batch of thermoplastic material.

553.03.03 Cleaning Pavement Surfaces. Refer to 549.03.02.

553.03.04 Application. The ambient and surface temperatures shall be at least 50 F and rising at the time of application.

Thermoplastic pavement markings shall be sprayed onto the pavement surface. Only the spray method of application shall be permitted. Gore areas, crosswalks, small intersections, roundabouts, and other areas which preclude the application of the markings with truck mounted equipment will be exempt from the spray application requirement.

Thermoplastic pavement markings shall conform to the following:

- (a) **Temperature.** The molten material temperature shall be between 400 and 440 F unless otherwise recommended by the manufacturer, and approved by the Engineer.
- (b) **Primer.** A primer shall be used if thermoplastic is applied to portland cement concrete. Any primer used shall be compatible with the thermoplastic material.
- (c) **Thickness.** The pavement markings shall yield a solid thickness range of 80 to 95 mils above the roadway surface across the middle two-thirds of the line width when tested as specified in MSMT 729. Variation from this range will be used for the price adjustment specified in 553.04.01.
- (d) **Glass Beads.** Glass beads shall be uniformly applied to the surface of the molten thermoplastic at the minimum rate of 7 to 9 lb/100 ft², as specified in MSMT 729.
- (e) **Color.** The color of the dry markings shall match Federal Standard 595 (13538 - yellow or 17886 - white). The Contractor shall supply the specified color chips for the Engineer's use to visually determine that the thermoplastic material matches the specified color.
- (f) **Retroreflectance.** Refer to 549.03.03(h). The millicandellas/lux/square meter values taken anytime within the first 30 days shall conform to the following:

RETROREFLECTANCE

COLOR	RETROREFLECTIVITY	CORRECTIVE ACTION
White	equal to or greater than 250	None
Yellow	equal to or greater than 150	
White	less than 250	Necessary corrective actions, including grinding if necessary, and re-tracing
Yellow	less than 150	

(g) **Width.** Refer to 549.03.03(e).

(h) **Alignment.** Refer to 549.03.03(f).

SPECIAL PROVISIONS
553 — LEAD FREE THERMOPLASTIC MARKINGS

CONTRACT NO. MO4505168
3 of 3

(i) **Layout Markings.** Refer to 549.03.03(i).

553.03.05 Quality Control Test Strip. Refer to 549.03.04.

553.03.06 Responsibility. Refer to Section 549.

553.03.07 Observation Period. Refer to Section 549.

553.04 MEASUREMENT AND PAYMENT. Refer to 549.04. The reflectometer will become the property of the Contractor at the completion of the project.

553.04.01 Price Adjustment for Film Thickness. The unit price for Lead Free Reflective Thermoplastic Pavement Markings will be per striped linear foot based on MSMT 729 calculations for thickness, and will be adjusted in conformance with the following:

MIL THICKNESS	PERCENT OF PAYMENT - UNIT PRICE
80 – 95 (a)(b)	100
75 – 79	90
70 – 74	88
65 – 69	82
60 – 64	72
Less than 60	Retrace to achieve a thickness of 80 to 95 mils. Retrace thickness shall be 30 mils min (b).

- (a) The Engineer may require the Contractor to remove excess material thickness.
- (b) Removal of excess material and retracing pavement markings shall be performed at no additional cost to the Administration.

SPECIAL PROVISIONS

CONTRACT NO. MO4505168

557 — SNOWPLOWABLE RAISED PAVEMENT MARKERS

1 of 3

**CATEGORY 500
PAVING**

SECTION 557 – SNOWPLOWABLE RAISED PAVEMENT MARKERS

557.01 DESCRIPTION. Furnish and install new Snowplowable Raised Pavement Markers (SRPM) and replacement components as specified in the Contract Documents or as directed by the Engineer.

557.02 MATERIALS.

Castings	Qualified Products List / 951.05
Pavement Marker Reflector Lenses	Qualified Products List / 951.05
Epoxy	951.05

Snowplowable Raised Pavement Markers are durable materials.

557.03 CONSTRUCTION.

Casting. Recycled iron castings are prohibited.

Placement. Snowplowable Raised Pavement Markers shall be installed and located as specified in the Contract Documents and in conformance with the Maryland Manual of Uniform Traffic Control Devices (MdMUTCD).

General Installation Requirements.

- (a) The Contractor shall install the SRPM no later than two weeks after the completion of the final surface or as directed by the Engineer.
- (b) At the time of installation, the road surface and ambient temperature shall be as specified in the manufacturers’ recommendations. Installing markers on wet pavement surfaces as determined in MSMT 729 is prohibited.
- (c) At the time of installation, the Contractor shall have on the jobsite all the materials necessary to complete the installation.
- (d) The quality control test strip containing a minimum of 10 groove cuts spaced as specified in the Contract Document shall be constructed to verify the accuracy and ability of the equipment and personnel. The contractor shall replace at no additional cost to the Administration any incorrect groove cuts and any incorrect casting placements within the test strip.
- (e) At the time of installation, SRPM castings delivered with Pavement Marker Reflector Lens affixed should be free of dirt, dust, oil, grease, rust, moisture, or any foreign matter that will impair adhesion to the pavement. Any residual material that inhibits retroreflectivity of the reflector lens shall be removed without damage to the lens surface. It shall be the contractor’s responsibility to clean each contaminated casting by sand blasting, wire brushing or other procedure approved by the Engineer to remove all foreign matter prior to installation. The use of chemicals to remove rust from the castings is prohibited.

SPECIAL PROVISIONS

557 — SNOWPLOWABLE RAISED PAVEMENT MARKERS

CONTRACT NO. MO4505168

2 of 3

- (f) The contractor shall replace at no additional cost to the Administration any incorrect groove cut and any incorrect casting placement. An additional test strip may be required by the Engineer in the event of incorrect installations. Incorrect installations, as determined by the Engineer, shall be corrected and repaired by the contractor at no additional cost to the Administration.

Pavement Marker Reflector Lens. Reflector lenses for pavement markers shall be the same color as the adjacent pavement marking except the back side shall be as follows;

- (a) One-Way Applications: The backside for One-Way Markers shall be red or blank as specified in the Contract Documents or as directed by the Engineer.
- (b) Two-Way Applications: The backside for Two-Way Markers shall be the same color as the adjacent pavement marking.

The pavement marker reflector lens shall be imprinted with the model/batch number and the manufacturers' name.

Castings. The casting shall be imprinted with the model number and the manufacturer's name.

New Installation.

- (a) The SRPM shall be installed in accordance with manufacturer's recommendations and D 4383. The installed height shall not exceed 0.25 in. above the road surface. The surface of the keel and web shall be free of scale, dirt, oil, grease or any other contaminant which may reduce its bond to the epoxy adhesive. All requirements of the manufacturer's installation instructions shall be met.
- (b) The groove cut for the casting shall be the appropriate dimensions to allow 0.125 in. movement side to side of the casting. All leveling lugs on the casting must contact the pavement. The leading and trailing edges of the casting must lie below the pavement surface and the casting properly seated. All other requirements of the manufacturer's installation instructions shall be met.
- (c) Lenses used shall be of a type specifically manufactured and approved for use as SRPM reflector lenses. Lenses that are manufactured exclusively for recessed pavement markers are not permitted as substitutes for SRPM reflector lenses.

Replacement.

- (a) Casting Replacement. The re-use of damaged or removed castings is prohibited.
- (b) Pavement Marker Reflector Lens Replacement. The Contractor shall remove and dispose of any damaged reflector lens and replace with a new lens. Previously installed undamaged castings which are missing a reflector lens shall have a new reflector lens installed. The replacement lenses shall be installed per manufacturer's written instructions.
- (c) Casting Groove Cut Replacement and Accuracy. The re-use of existing groove cuts is prohibited; castings shall only be installed in new groove cuts. Previously used groove cuts shall be permanently patched in accordance with applicable sections of 504, 505 and 522 or

SPECIAL PROVISIONS

557 — SNOWPLOWABLE RAISED PAVEMENT MARKERS

CONTRACT NO. MO4505168

3 of 3

as directed by the Engineer. The location of the replacement groove cut shall be within 10 percent longitudinally in front (with the direction of traffic) and no lateral deviation exceeding 1½ in.

Casting Adhesive. The epoxy adhesive used to fasten the castings to the pavement surface shall conform to D 4383-05 Table X1.1.

Reflector Lens Adhesive in Casting. The adhesive used to fasten the reflector lens to the casting shall meet the manufacturers' recommendations.

Quality Assurance/Quality Control. Section 549.

Observation Period. The Contractor shall replace at no additional cost to the Administration, any SRPM or Pavement Marker Reflector Lenses found to be damaged, non-retroreflective or missing due to improper installation or manufacturing defects within 180 days after opening to traffic.

557.04 MEASUREMENT AND PAYMENT. The payment will be full compensation for all pavement preparation, furnishing and placement of SRPM's, testing, removal, groove cutting, repair and all materials, labor, equipment, tools and all incidentals necessary to complete the work.

- (a) Snowplowable Raised Pavement Markers will be paid for at the Contract unit price per each. Furnishing and installing SRPM includes the casting, reflector, adhesive and grooving.
- (b) Removal of existing Castings, excluding any incorrect installation by the Contractor, and repair of Groove Cuts will be paid for at the Contract unit price per each.
- (c) Replacement of Pavement Marker Reflector Lenses will be paid for at the Contract unit price per each.

SPECIAL PROVISIONS

559 — PREFORMED PATTERNED REFLECTIVE MARKINGS

CONTRACT NO. MO4505168

1 of 3

**CATEGORY 500
PAVING**

**SECTION 559 — PERMANENT PREFORMED PATTERNED
REFLECTIVE PAVEMENT MARKINGS**

559.01 DESCRIPTION. Furnish and apply permanent preformed patterned reflective pavement (PPPRP) markings as specified in the Contract Documents or as directed by the Engineer.

559.02 MATERIALS.

Permanent Preformed Patterned Reflective Pavement Marking Materials	951.07
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559.03 CONSTRUCTION.

559.03.01 General. PPPRP markings shall be applied in conformance with the manufacturer's recommendations or as directed by the Engineer.

On new hot mix asphalt projects, the PPPRP markings shall be inlaid into the hot surface of the top course of pavement. No top course paving shall be permitted unless the stripping crew and marking materials are at the project site.

When the Contract Documents specifies the use of PPPRP markings on concrete pavements or existing asphalt pavements, the Contractor shall use heat, solvent, or other type of adhesive primer in conformance with the manufacturer's recommendations.

Preformed legends and symbols shall conform to the applicable shape and sizes as specified in the MdMUTCD, and Contract Documents.

PPPRP markings shall conform to pavement contours and be resistant to deformation by traffic and damage from snow removal equipment. Surface preparation, use of solvents and primers and equipment used in the application of PPPRP markings shall conform with the manufacturer's recommendations and be approved by the Engineer. After PPPRP markings are applied, they shall be immediately ready for traffic.

559.03.02 Quality Assurance/Quality Control. Refer to 549.03.01.

559.03.03 Cleaning Pavement Surfaces. Refer to 549.03.02.

559.03.04 Application. Refer to 549.03.03 and the following:

- (a) **Manufacturer's Recommendations.** The Contractor shall provide a copy of the manufacturer's recommendations to the Engineer, and shall follow them for the installation of the line markings.
- (b) **Adherence.** Adherence of PPPRP markings shall be randomly checked by using a paint scraper or another approved tool, which shall be held nearly parallel with the highway surface, so there is no dislodging of the tape.

SPECIAL PROVISIONS

559 — PREFORMED PATTERNED REFLECTIVE MARKINGS

CONTRACT NO. MO4505168

2 of 3

- (c) **Thickness.** The finished thickness of the PPPRP markings shall have a minimum caliper of 0.060 in. at the thickest portion of the patterned cross section, and a minimum caliper of 0.020 in. at the thinnest portion of the cross section. Measurements shall be made from the top of finished pavement surface.
- (d) **Color.** The color of the markings shall match Federal Standard 595 (33538 - yellow, 37886 – white, or 37038 - black). The Contractor shall supply the specified color chips for the Engineer’s use to visually determine that the PPPRP markings match the specified color.
- (e) **Retroreflectance.** Refer to 549.03.03(h) and the following:

MINIMUM RETROREFLECTANCE

COLOR	RETROREFLECTIVITY	CORRECTIVE ACTION
White	350 or higher	None
Yellow	250 or higher	
White	less than 350	Necessary corrective actions, removal, replacement
Yellow	less than 250	

- (f) **Width.** Refer to 549.03.03(e).
- (g) **Alignment.** Refer to 549.03.03(f).
- (h) **Layout Markings.** Refer to 549.03.03(i).

559.03.05 Quality Control Test Strip. Refer to 549.03.04.

559.03.06 Responsibility. Refer to Section 549.

559.03.07 Observation Period. The Contractor shall be responsible for any defects in materials and workmanship of the PPPRP markings for a period of 180 days from the date the markings are applied and under traffic.

The Engineer will not assess time charges during the observation period provided all other work on the Contract is complete. At the end of the observation period, the Engineer will inspect the pavement marking for durability, color, reflectivity, and inform the Contractor of all pavement markings that have failed and require replacement. The pavement marking will be considered failed for any of the following conditions:

- (a) More than five percent of the substrate is exposed in any 2000 ft section of longitudinal pavement marking line.
- (b) Retroreflectance values have dropped below 300 mcd/L/m² for white or 220 mcd/L/m² for yellow.
- (c) Marking is discolored on a visual comparison with the color chips.

SPECIAL PROVISIONS

559 — PREFORMED PATTERNED REFLECTIVE MARKINGS

CONTRACT NO. MO4505168

3 of 3

The Contractor shall remove and replace all failed PPRP markings within 30 days of receiving written notification from the Engineer at no additional cost to the Administration. Work shall be in conformance with the manufacturer's recommendation and as approved by the Engineer before the project is accepted. The replacement markings shall conform to the same requirements as the original markings. If the work is not completed in this period, the Engineer will resume time charges until this work is completed.

At the end of the observation period, the Engineer will accept the work and terminate the Contractor's responsibilities upon satisfactory inspection of the PPRP markings.

559.04 MEASUREMENT AND PAYMENT. Measurement and payment for the pertinent Permanent Preformed Patterned Reflective Pavement Marking items will be as specified in 549.04. The reflectometer will become the property of the Contractor at the completion of the project.

**CATEGORY 800
 TRAFFIC**

PIEZO SENSORS

DESCRIPTION. This work shall consist of furnishing and installing Class I (Weigh-In-Motion) and/or Class II (Classification only) Piezo Sensors, as specified in the Contract Documents or as directed by the Engineer.

MATERIALS. Class I and Class II Piezo sensors shall meet the following:

- (a) Minimum Resistance between Core and Shield 500 Megohm
- (b) Capacitance 27 Pico Farad per foot (89 pF/m) of sensor cable.

The epoxy used for installation of piezo sensors in the roadway shall be suitable for all pavements, and shall be of type ECM P5G or equivalent, with a cure time of:

- (1) 2 hr. at 40 degree F
- (2) 1 hr. at 70 degree F

CONSTRUCTION. Piezo sensors shall be supplied with 100 ft. of attached signal cable, unless shown otherwise in the Contract Documents. Cable lengths shall be available from 100 ft. to 300 ft, in 50-foot increments.

- (a) Output Uniformity:
 - Class I: + 7 Percent (Weigh-In-Motion: WIM)
 - Class II: ±20 Percent (Classification only)
- (b) Operating Temperature Range: - 40 to 160°F (-40 to 70°C)
- (c) Temperature Sensitivity: 0.2%/°F typical, depending on grout used.
- (d) Typical Output Level: A wheel load of 400 pounds will produce a minimum output signal of 250 mV, at 70°F and 55 mph for a properly-installed sensor.
- (e) Passive Signal Cable: RG 58C/U with a High Density Polyethylene Outer jacket that is rated for direct burial; 3/16" (4.75mm) OD

SPECIAL PROVISIONS
800 - PIEZO SENSORS

CONTRACT NO. MO4505168
2 of 2

- (f) Product Life: 40 Million ESALs, depending on installation
- (g) Capacitance: (with 100 ft. of preinstalled lead-in cable)
 - (1) 9-foot length: 6.25 nF C 12.25 nF
 - (2) 10-foot length: 7.00 nF C 13.00 nF
 - (3) 11-foot length: 7.75 nF C 13.75 nF
 - (4) 12-foot length: 8.50 nF C 14.50 nF
- (h) Installation. Installation of piezo sensors shall be as specified in the manufacturers recommendations for site selection, site testing, and site preparation. A copy of the sensor maintenance manual shall be provided to the Engineer.
- (i) Length. Unless specified otherwise in the Contract Documents, piezo sensors shall be supplied in 11-foot lengths. Piezo sensors shall be available in lengths of 6 to 13 feet.
- (j) Bend Radius. Sensor will not be damaged by bending to a radius of > 1 ft. (300mm)
- (k) Piezoelectric Material: Spiral-wrapped PVDF Piezoelectric film
- (l) Testing. Testing shall be as specified by the manufacturer, and per section 820 of the Maryland Specifications.

MEASUREMENT AND PAYMENT. Piezo Sensors will be measured and paid for per each for each class of sensor shown in the Contract Documents. The payment will be full compensation for furnishing and installing the sensor, lead-in cable, all materials, including labor, equipment, sawcutting for the sensor, and all incidentals necessary to complete the work.

SECTION 875 UTILITIES STATEMENT

DESCRIPTION. The Contractor's attention is called to the requirements of sections GP-5.05, GP-7.13 and GP-7.17 of the General Provisions for Construction Contracts.

MATERIALS. Not Applicable.

CONSTRUCTION.

- (a) Attention of the Contractor is directed to the presence of water, sewer, gas, electrical, telecommunication, and television, facilities, poles, cables, conduits, ducts, mains, and house service connections in, over, under or adjacent to the street or highway in which the construction project is to be performed. The Contractor shall exercise special care and extreme caution to protect and avoid damage to utility company facilities as described in the preceding sentence. The Contractor shall take into consideration the adjustments and installations by public utilities in areas within the project limits of this Contract. Existing utilities have been generally located and shown on the plans, as they are believed to exist; however, the Administration assumes no responsibility for the accuracy of these locations.
- (b) The contractor shall locate all existing utilities and be responsible for their safety. Should any existing utilities be damaged or destroyed due to the operations or negligence of the Contractor, the damaged or destroyed components shall be immediately replaced or repaired as necessary to restore the utility to a satisfactory operating condition to the complete satisfaction of the affected Utility Agency. The Contractor will be completely responsible for all expenses associated with repairs or replacements to these facilities at no additional expense to the Administration or the owner of the utility. In the event that the respective Utility Agency conducts these repairs, the Contractor will be entirely responsible to furnish the Utility with full payment for the work performed including all costs associated with any service disruptions.
- (c) The existing utilities shall be relocated or removed by the agency responsible for their maintenance or by the owner of the utility unless otherwise indicated in the Contract documents. The Contractor shall inform the respective utility companies at least five days prior to working in any area. In addition, the Contractor shall give sufficient notice to the specific utilities of the Contractors overall plan for construction. The utility companies will establish the lead time necessary to meet the applicable utility work schedule and coordinate with the Contractor's work operations based upon the Contractors overall plan.

- (d) The following utility companies maintain facilities within District Three, however no conflicts are anticipated. In the event an existing structure should require relocation and or adjustment please contact the District Utility Engineer and the affected Utility. The surface structure adjustment will be incidental to the paving items.

Verizon Communication-MD

Mr. Gabor Varsa
3901 Calverton Boulevard-3rd Floor
Beltsville, Maryland 20705
Telephone: 301-282-7031

Comcast (Montgomery Co.)

Mr. Dwayne Douty
20 West Gude Drive
Rockville, Maryland 20850
Telephone: 301-456-8957

Washington Gas

Ms. Theresa Curtis
6801 Industrial Road
Springfield, Virginia 22151
Telephone: 703-750-4215
Fax: 703-750-4484

Washington Suburban Sanitary Commission

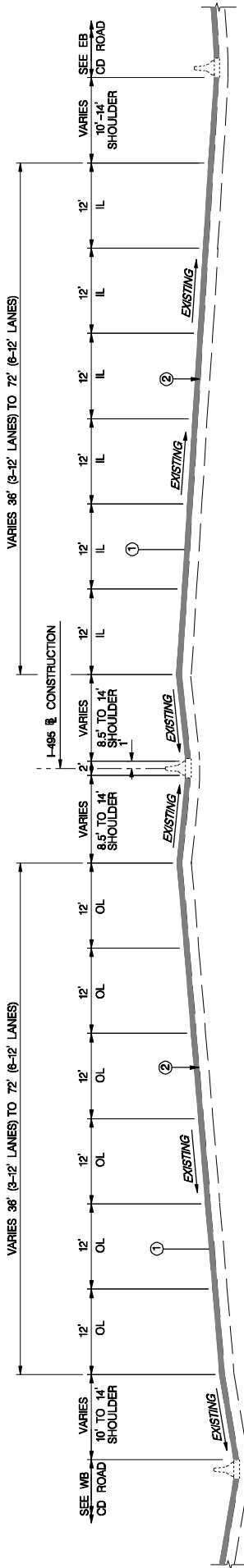
Mr. Ahmad Karami
14501 Sweitzer Lane
Laurel, Maryland 20707
Telephone: 301-206-8672

WSSC maintains water and sewer facilities within the limits of work. No impacts to these facilities are anticipated; however, there are surface structures that may require adjustment. **The contractor should contact Mr. Bill Eacho, WSSC Construction Manager at 301-206-2637, five (5) days in advance of beginning paving operations** to arrange for an inspection of the WSSC facilities.

- (e) All notifications to the above utility companies and “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 performed.

- (f) If a utility adjustment or relocation is required, it is necessary that the existing facilities remain continuously in service until the new adjustment or relocation is completed and placed in service. It will be the responsibility of the contractor to remove and dispose of abandoned utility facilities when these facilities are in conflict with proposed construction. The Contractor must obtain authorization from the appropriate utility agency prior to performing any removal of abandoned facilities. The complete cost for removing and disposing of abandoned utility facilities shall be incidental to the appropriate items of work included in the contract.
- (g) An updated schedule or CPM reflecting all utility relocations and adjustments must accompany any submittal by the contractor to vary the sequence of work and/or perform concurrent work in multiple phases differing from the recommended Maintenance of Traffic phasing. The contractor shall be responsible, upon gaining approval, for coordinating utility relocations and adjustments with the affected utility owners, SHA Project Engineer, and District Utility Engineer. All requirements and lead times as stated in the Special Provisions will remain in effect unless written approval from the utility company and the District Utility Engineer is received by the Contractor prior to commencing any requested work.

MEASUREMENT AND PAYMENT. All work, or additional work, performed expediting utility relocations, working around, or protecting, utility facilities, and coordinating and cooperating with utility agencies or their contractors will not be measured for payment and considered incidental to the items specified in the Contract Documents.



INTERSTATE I-495 MAINLINE

NTS
 I-495 STA. 294+37.78 TO I-495 STA. 310+00.00
 I-495 STA. 310+00.00 BK.=I-495 STA. 10+00.00 AHD.
 I-495 STA. 10+00.00 TO I-495 STA. 165+97.00

INTERSTATE I-495 OL

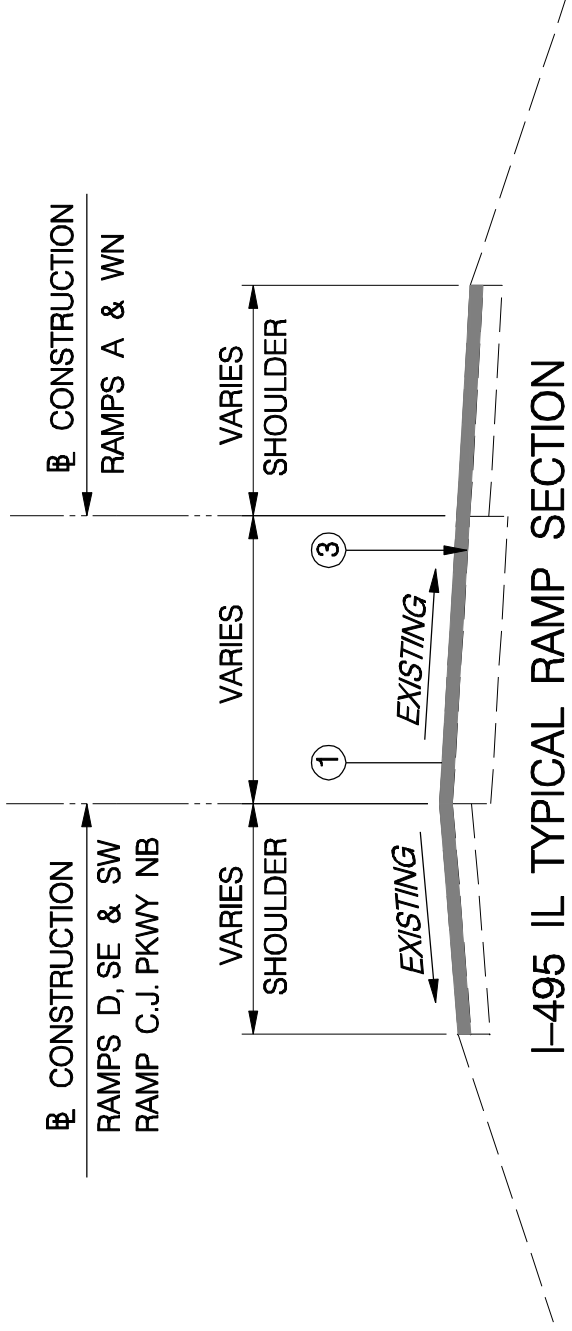
I-495 OL STA. 215+50.00 TO STA. 227+56.54
 I-495 OL STA. 227+56.54 BK. = I-270 SB STA. 124+00.53 AHD.
 I-270 SB STA. 124+00.53 TO I-270 STA. 133+71.14
 I-270 STA. 133+71.14 BK. = I-495 STA. 294+37.78 AHD.
 I-495 STA. 294+37.78 TO I-495 STA. 310+00.00
 I-495 STA. 310+00.00 BK. = I-495 STA. 10+00.00 AHD.
 I-495 STA. 10+00.00 TO I-495 STA. 165+97.00

INTERSTATE I-495 IL

I-495 IL STA. 403+00.00 TO I-495 IL STA. 400+00.00
 I-495 IL STA. 400+00.00 BK. = I-270 NB STA. 732+06.82 AHD.
 I-270 NB STA. 732+06.82 TO I-270 NB STA. 751+78.47
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 I-495 STA. 310+00.00 BK. = I-495 STA. 10+00.00 AHD.
 I-495 STA. 10+00.00 TO I-495 STA. 165+97.00

NOTE:
 SEE PAVEMENT DETAIL FOR
 PAVEMENT RECOMMENDATIONS.

**I-495
 FROM POTOMAC RIVER
 TO I-270**



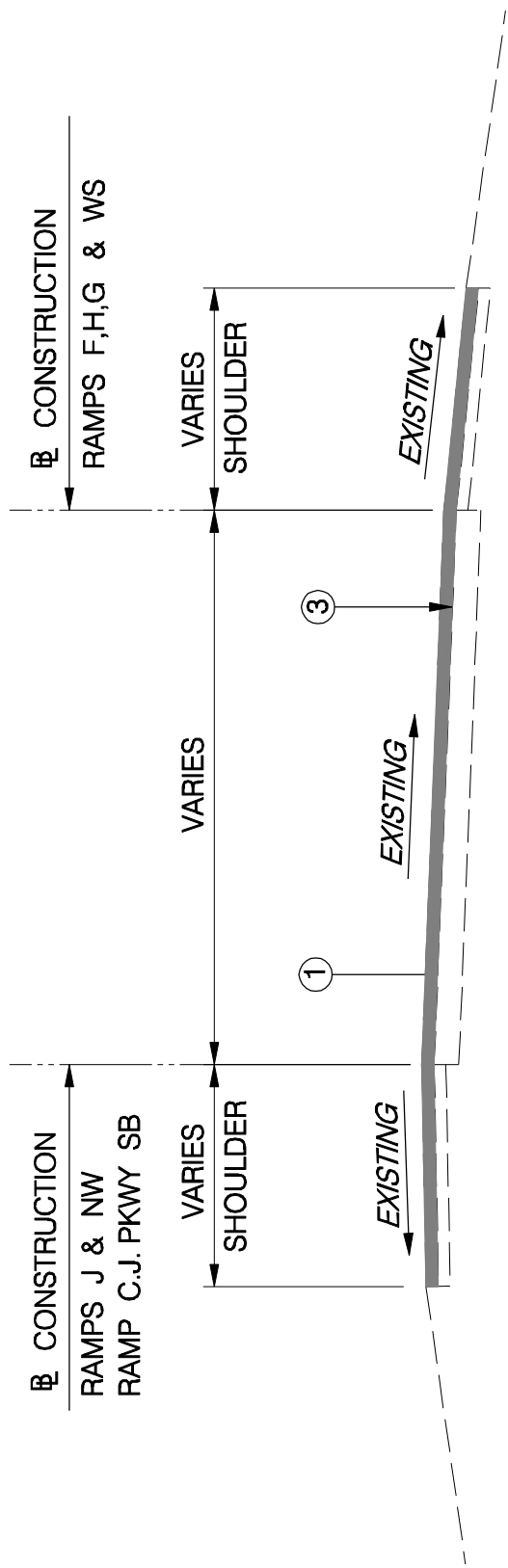
I-495 IL TYPICAL RAMP SECTION

N.T.S.

- RAMPS - A & D - MD 190 (RIVER ROAD) INTERCHANGE
- RAMP - C.J. PKWY NB - MD 190 (RIVER ROAD) INTERCHANGE
- RAMPS - SE, SW & WN - CLARA BARTON PKWY INTERCHANGE

NOTE:
SEE PAVEMENT DETAIL FOR
PAVEMENT RECOMMENDATIONS.

I-495
FROM POTOMAC RIVER
TO I-270

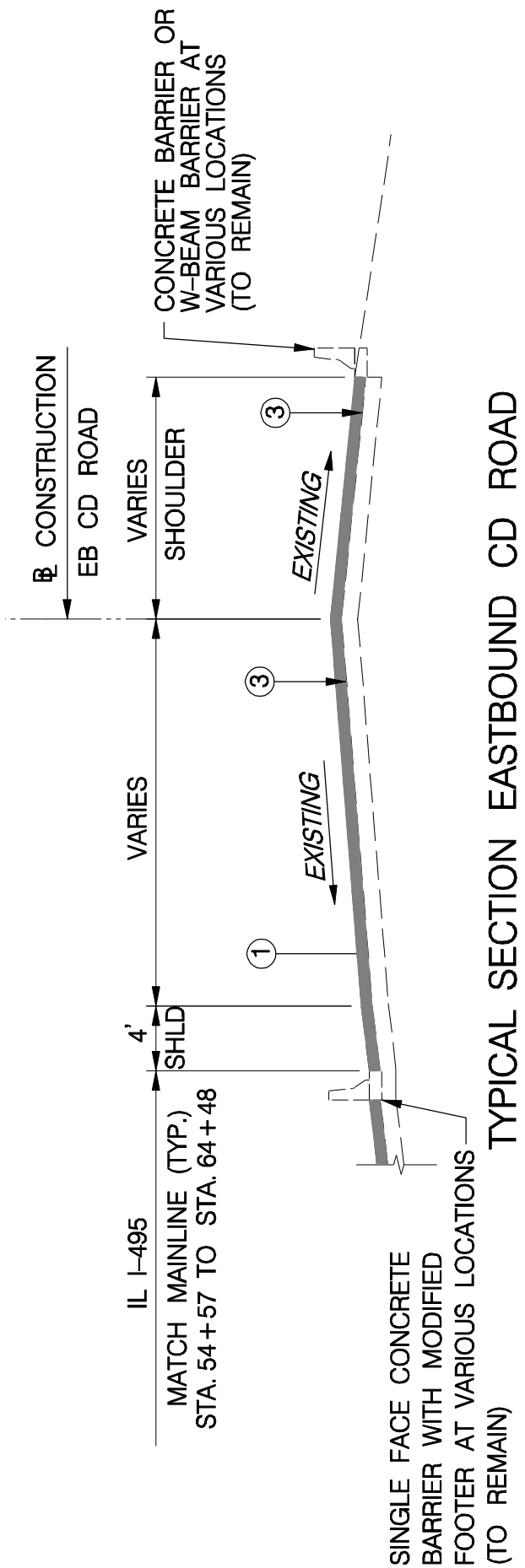


I-495 OL TYPICAL RAMP SECTION

N.T.S.
 RAMPS - F,H,J & G - MD 190 (RIVER ROAD) INTERCHANGE
 RAMP - C.J. PKWY SB - MD 190 (RIVER ROAD) INTERCHANGE
 RAMPS - NW & WS CLARA BARTON PARKWAY INTERCHANGE

NOTE:
 SEE PAVEMENT DETAIL FOR
 PAVEMENT RECOMMENDATIONS.

I-495
FROM POTOMAC RIVER
TO I-270

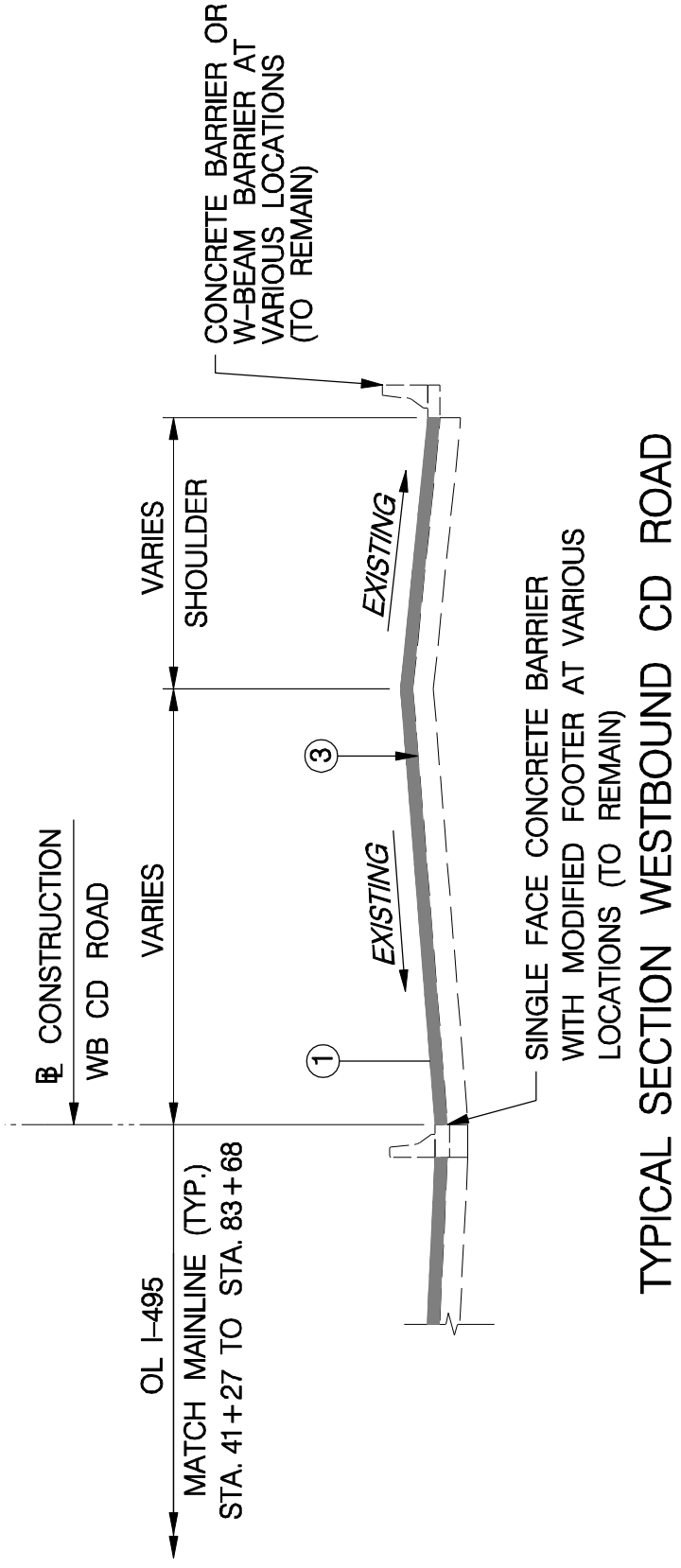


SINGLE FACE CONCRETE
BARRIER WITH MODIFIED
FOOTER AT VARIOUS LOCATIONS
(TO REMAIN)

N.T.S.
STA. 210+27 TO STA. 219+25

NOTE:
SEE PAVEMENT DETAIL FOR
PAVEMENT RECOMMENDATIONS.

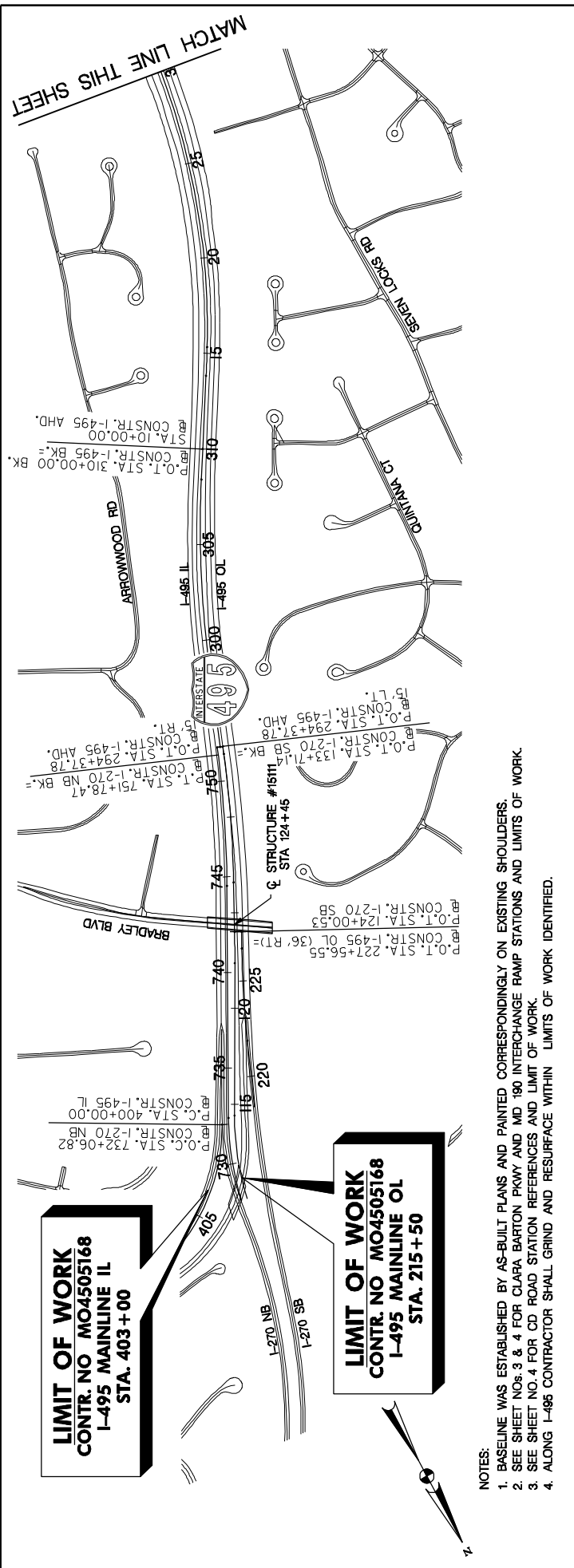
I-495
FROM POTOMAC RIVER
TO I-270



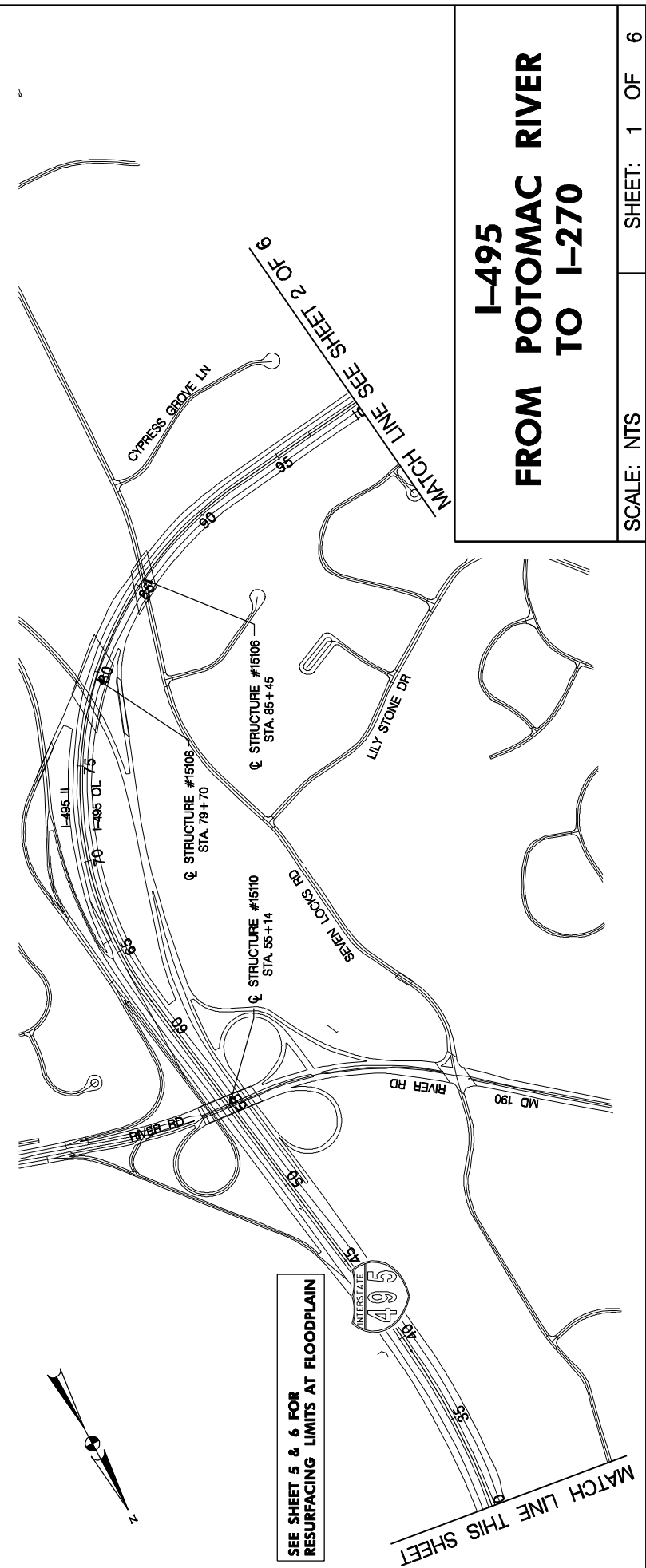
N.T.S.
 STA. 900+00 TO STA. 1300+00

NOTE:
 SEE PAVEMENT DETAIL FOR
 PAVEMENT RECOMMENDATIONS.

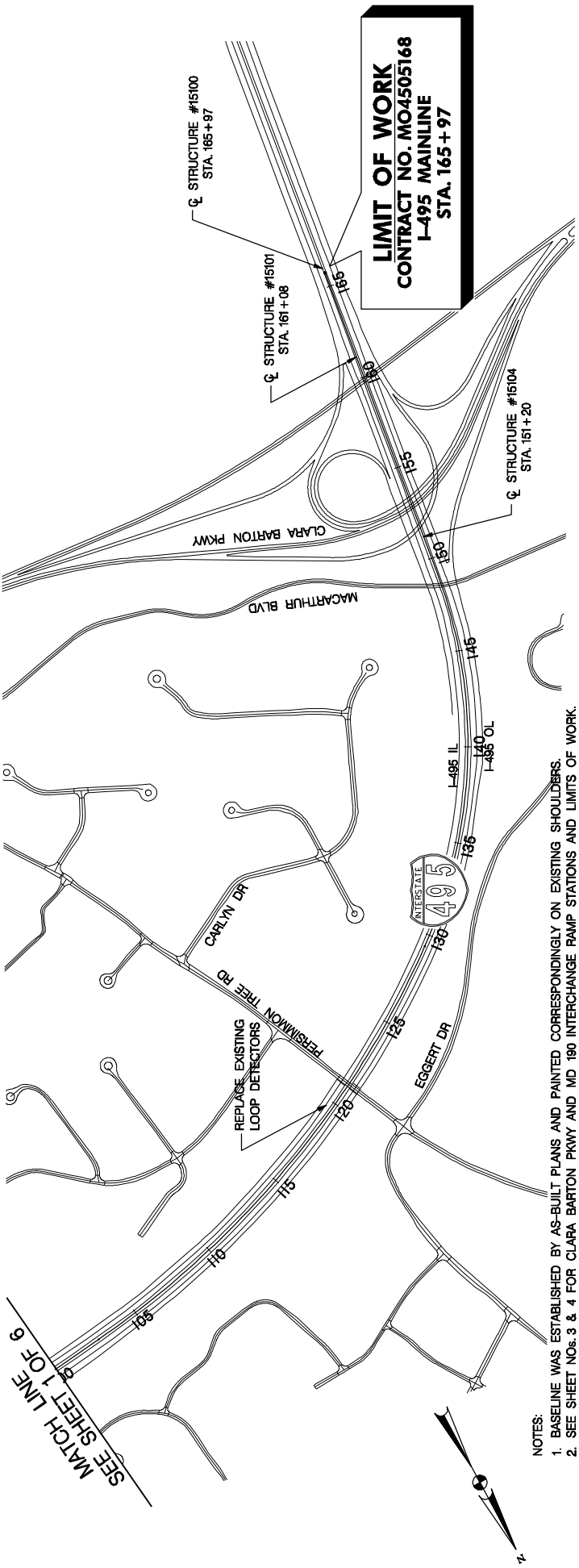
I-495
FROM POTOMAC RIVER
TO I-270



- NOTES:
1. BASELINE WAS ESTABLISHED BY AS-BUILT PLANS AND PAINTED CORRESPONDINGLY ON EXISTING SHOULDERS.
 2. SEE SHEET NOS. 3 & 4 FOR CLARA BARTON PKWY AND MD 190 INTERCHANGE RAMP STATIONS AND LIMITS OF WORK.
 3. SEE SHEET NO. 4 FOR CD ROAD STATION REFERENCES AND LIMIT OF WORK.
 4. ALONG I-495 CONTRACTOR SHALL GRIND AND RESURFACE WITHIN LIMITS OF WORK IDENTIFIED.



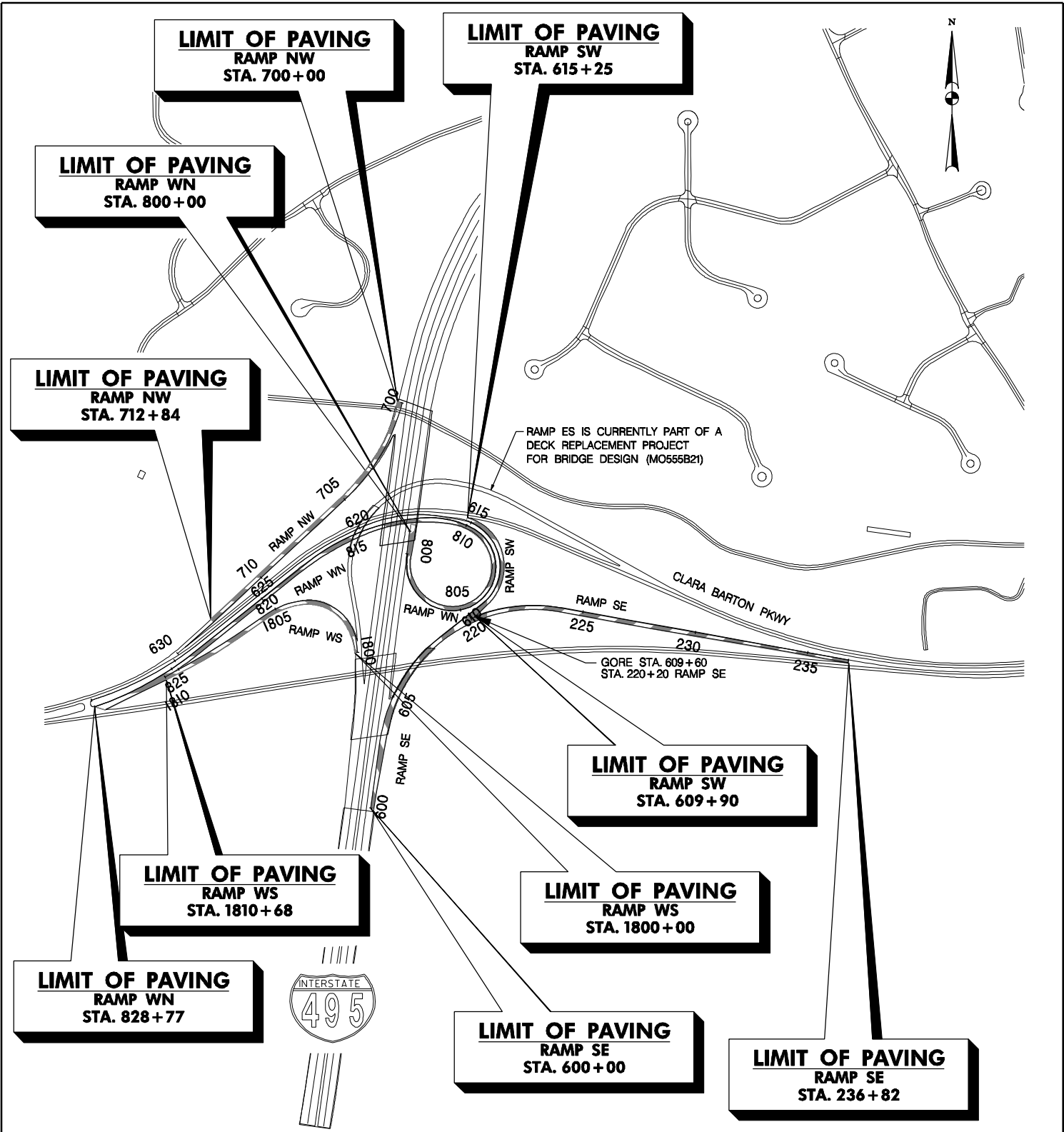
**I-495
FROM POTOMAC RIVER
TO I-270**



LIMIT OF WORK
CONTRACT NO. MO4505168
I-495 MAINLINE
STA. 165+97

- NOTES:
1. BASELINE WAS ESTABLISHED BY AS-BUILT PLANS AND PAINTED CORRESPONDINGLY ON EXISTING SHOULDERS.
 2. SEE SHEET NOs. 3 & 4 FOR CLARA BARTON PKWY AND MD. 190 INTERCHANGE RAMP STATIONS AND LIMITS OF WORK.
 3. SEE SHEET NO. 4 FOR CD. ROAD STATION REFERENCES AND LIMIT OF WORK.
 4. ALONG I-495 CONTRACTOR SHALL GRIND AND RESURFACE WITHIN LIMIT OF WORK IDENTIFIED.

I-495
FROM POTOMAC RIVER
TO I-270



NOTES

1. SEE SHEET NO. 1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
2. SEE SHEET NO. 3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

LEGEND



2 1/4" GRINDING & 2" RESURFACING

RAMP STATIONS AND LIMITS OF PAVING		
I-495		
FROM POTOMAC RIVER TO I-270		
CLARA BARTON PKWY INTERCHANGE		
DATE NOV. 2008	CONTRACT NO. MO4505168	SHEET 3 OF 6

LIMIT OF PAVING
WEST CD RD.
STA. 1300+00

LIMIT OF PAVING
RAMP H
STA. 1700+00

LIMIT OF PAVING
RAMP H
STA. 1707+65

LIMIT OF PAVING
RAMP A
STA. 1514+75

LIMIT OF PAVING
RAMP A / EAST CD
STA. 1509+25
BEGIN RAMP A END EAST CD ROAD

LIMIT OF PAVING
RAMP G
STA. 1919+12

LIMIT OF PAVING
RAMP J
STA. 1607+20

LIMIT OF PAVING
RAMP J
STA. 1609+18

LIMIT OF PAVING
RAMP F
STA. 200+80

LIMIT OF PAVING
RAMP D
STA. 1411+69

LIMIT OF PAVING
RAMP G
STA. 1902+75

LIMIT OF PAVING
RAMP F
STA. 1600+00

LIMIT OF PAVING
RAMP D
STA. 1400+27

LIMIT OF PAVING
RAMP C.J. PKWY SB
STA. 1100+00

LIMIT OF PAVING
EAST CD RD
STA. 1500+27

LIMIT OF PAVING
RAMP C.J. PKWY NB
STA. 1210+75

LIMIT OF PAVING
RAMP C.J. PKWY SB
STA. 1131+12

LIMIT OF PAVING
WB CD RD.
STA. 900+00

NOTES

- SEE SHEET NO. 1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
- SEE SHEET NO. 3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

LEGEND



2 1/4" GRINDING & 2" RESURFACING

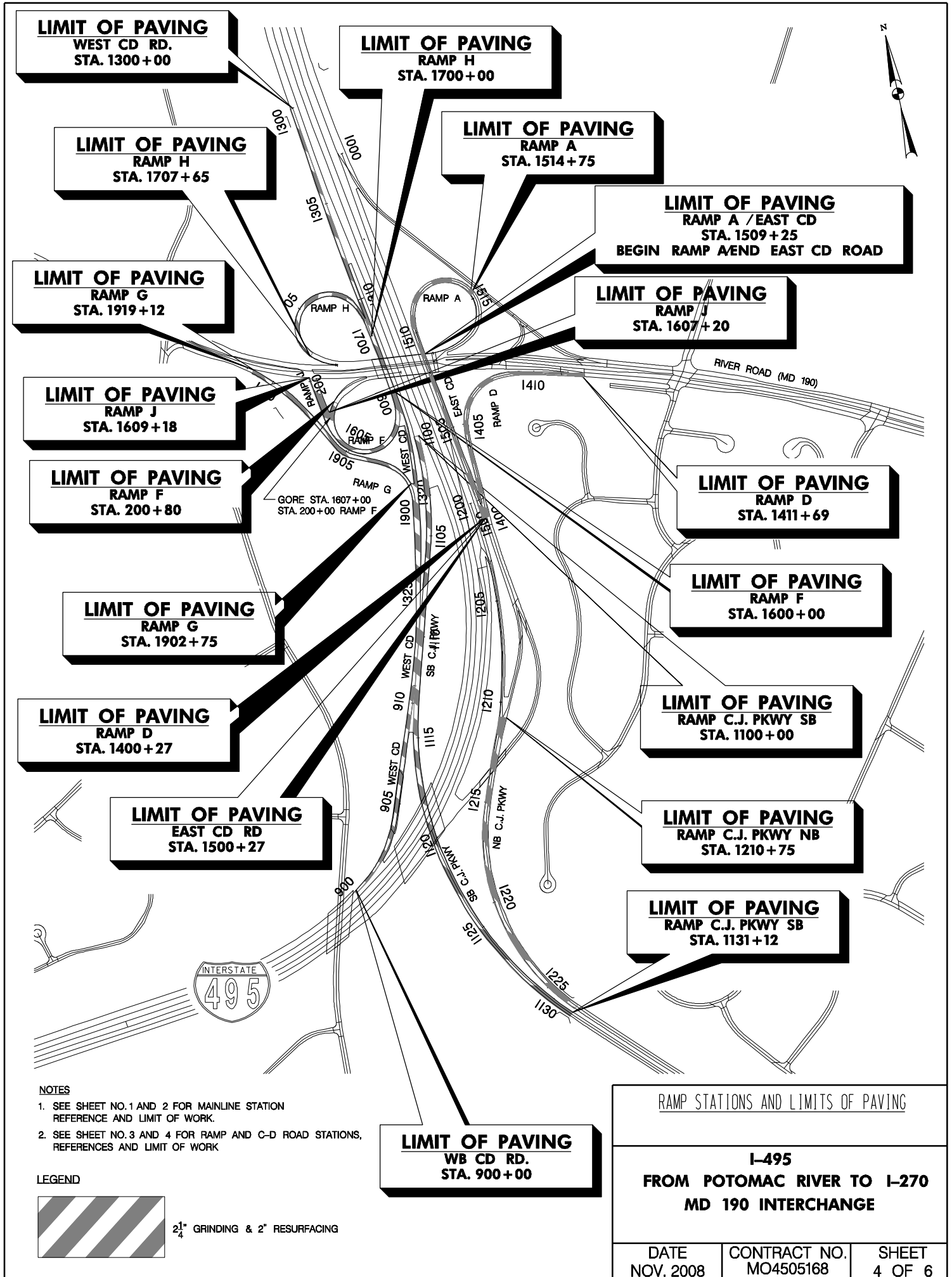
RAMP STATIONS AND LIMITS OF PAVING

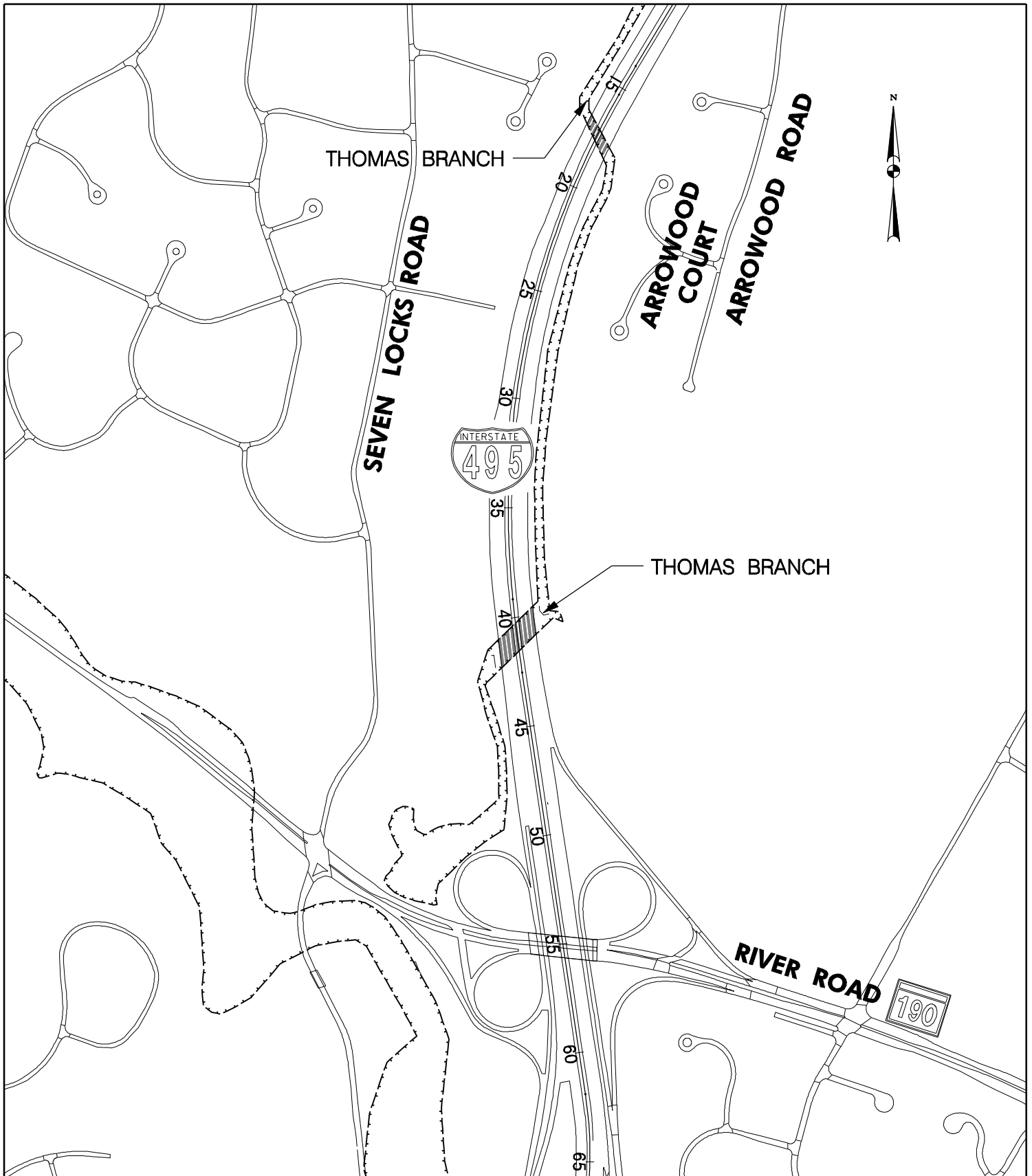
I-495
FROM POTOMAC RIVER TO I-270
MD 190 INTERCHANGE

DATE
NOV. 2008

CONTRACT NO.
MO4505168

SHEET
4 OF 6







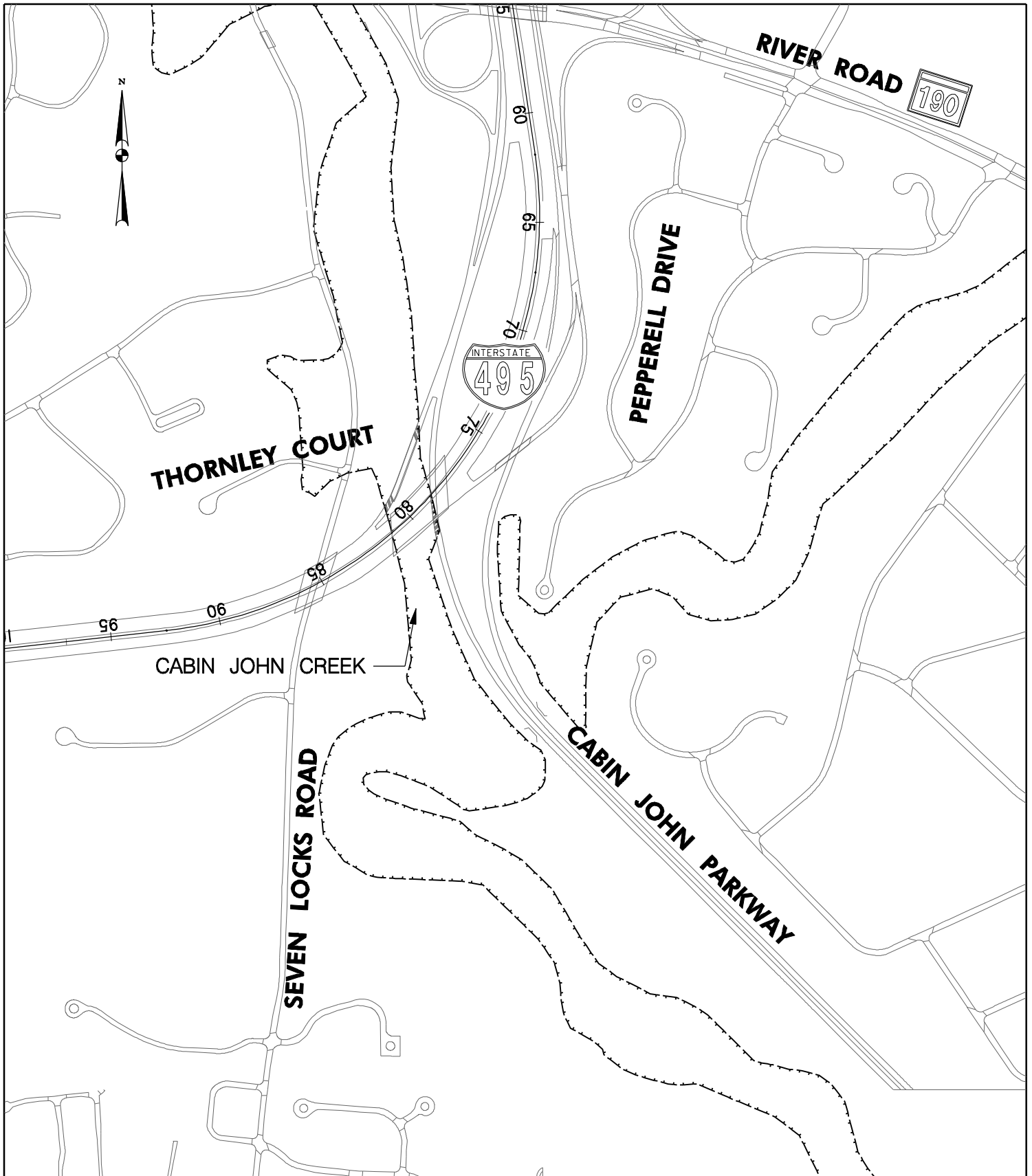
NOTES

1. SEE SHEET NO.1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
2. SEE SHEET NO.3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

LEGEND

-  100-YR FLOODPLAIN BOUNDARY (APPROXIMATE POSITION)
-  2" GRINDING & RESURFACING IN FLOODPLAIN

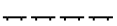

FLOODPLAIN IMPACT AREA		
I-495 FROM POTOMAC RIVER TO I-270		
DATE NOV. 2008	CONTRACT NO. MO4505168	SHEET 5 OF 6



NOTES

1. SEE SHEET NO. 1 AND 2 FOR MAINLINE STATION REFERENCE AND LIMIT OF WORK.
2. SEE SHEET NO. 3 AND 4 FOR RAMP AND C-D ROAD STATIONS, REFERENCES AND LIMIT OF WORK

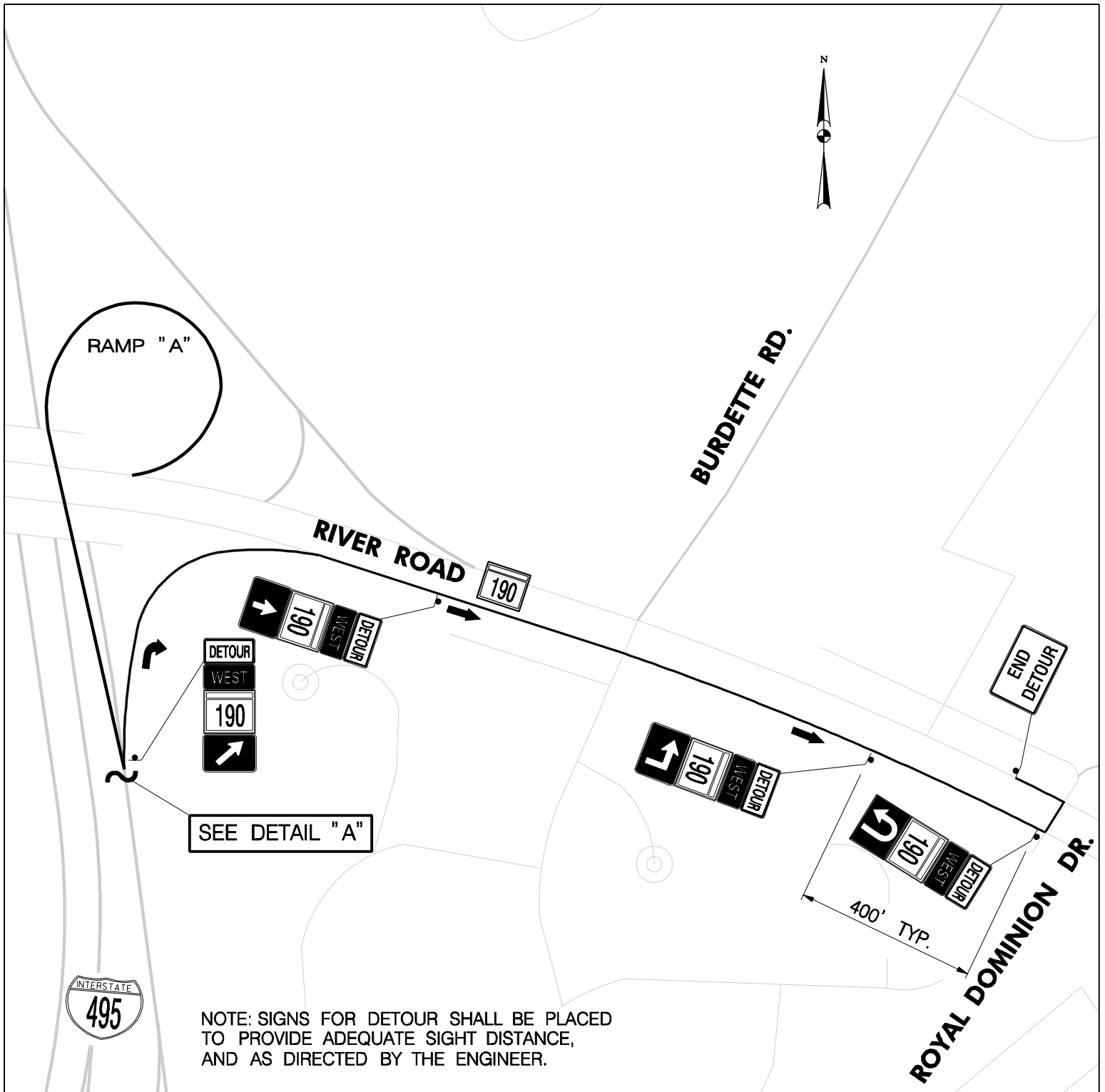
LEGEND

-  100-YR FLOODPLAIN BOUNDARY (APPROXIMATE POSITION)
-  2" GRINDING & RESURFACING IN FLOODPLAIN

FLOODPLAIN IMPACT AREA

**I-495
FROM POTOMAC RIVER TO I-270**

DATE NOV. 2008	CONTRACT NO. MO4505168	SHEET 6 OF 6
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NOTE: SIGNS FOR DETOUR SHALL BE PLACED TO PROVIDE ADEQUATE SIGHT DISTANCE, AND AS DIRECTED BY THE ENGINEER.

LEGEND

- CLOSED AREA
- ROAD NUMBER
- EXIT NUMBER
- DETOUR ROUTE

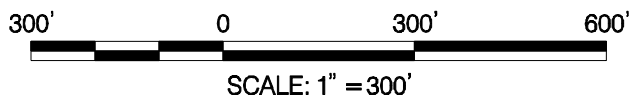
PVMS SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS	DETAIL "A"	±12 MI.	±1100'	±700'
	 W20-2 48"X48" 16 SF	 W20-2 48"X48" 16 SF	 W20-2 48"X48" R11-2(MOD) 16 SF	 48"X30" 10 SF

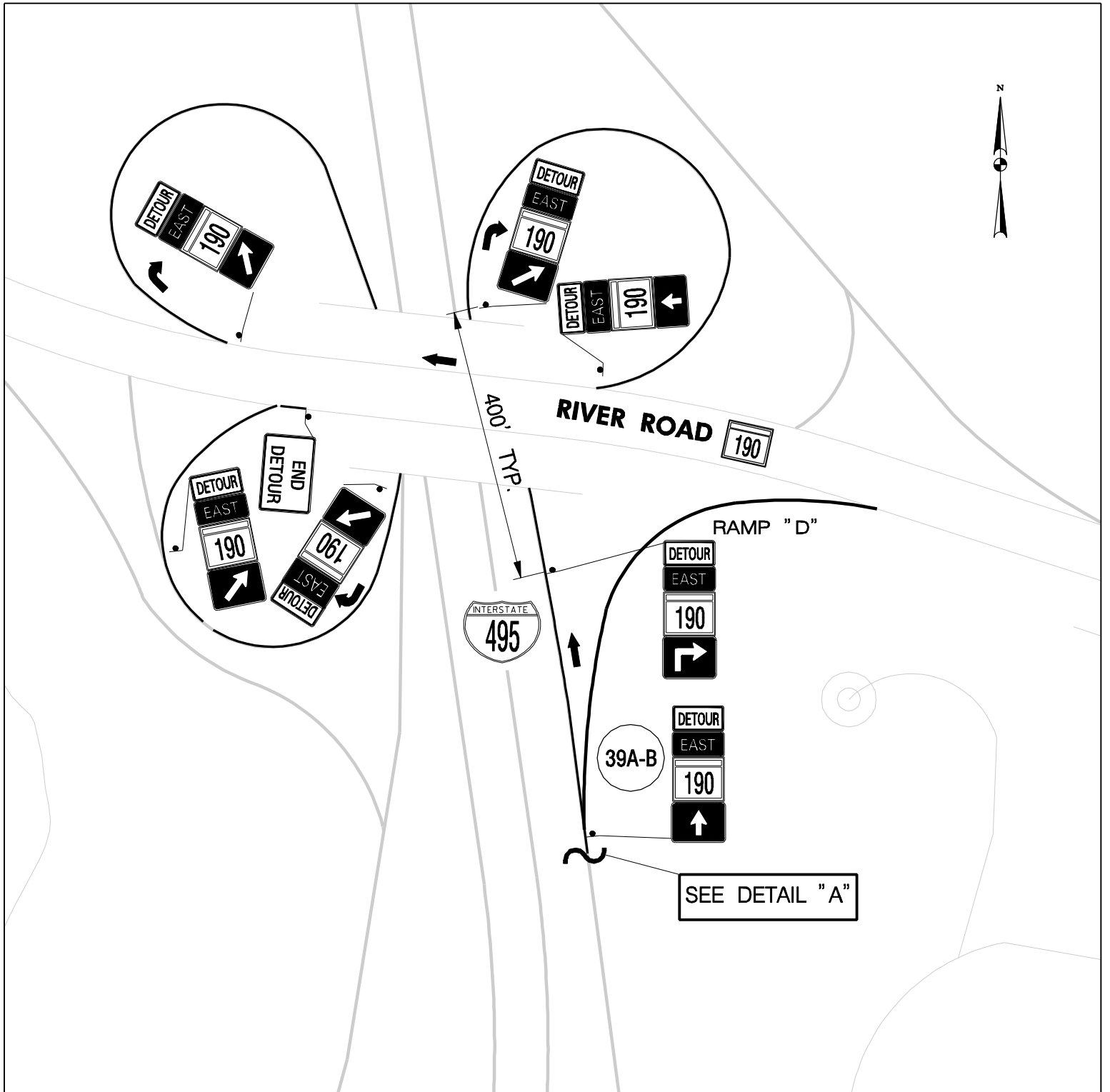


I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT MD 190 (RIVER ROAD)
 RAMP "A"

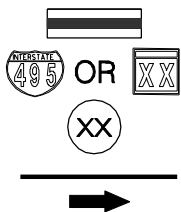
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008	CONTRACT NO.: MO4505168
DRAWING NO. MOT-01 OF 10	SHEET NO. 1 OF 10

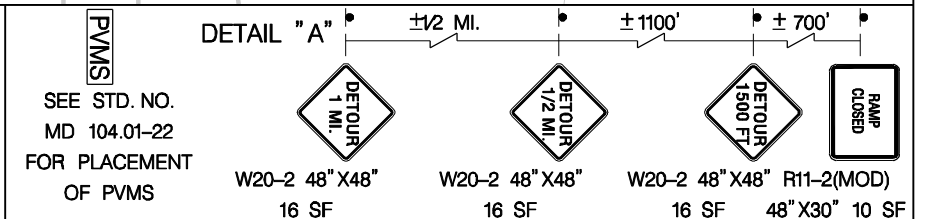




LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT MD 190 (RIVER ROAD)
 RAMP "D"

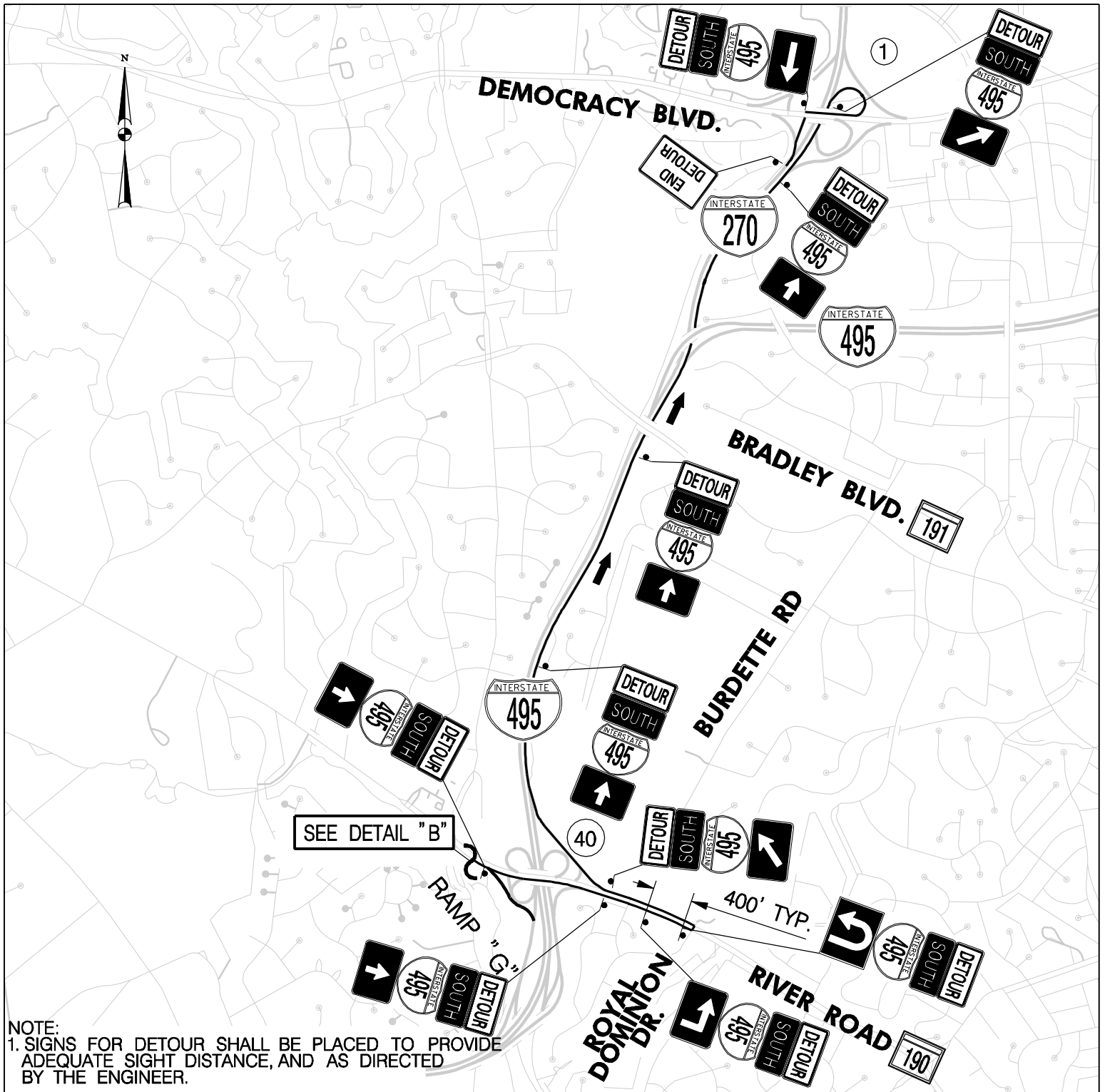
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

CONTRACT NO.: MO4505168

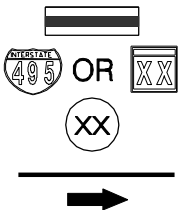
DRAWING NO. MOT-02 OF 10

SHEET NO. 2 OF 10

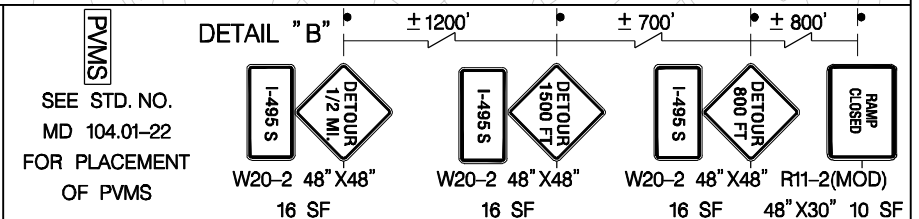
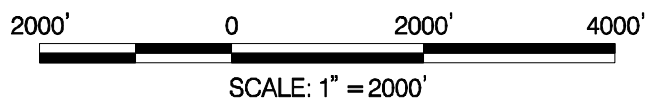


NOTE:
 1. SIGNS FOR DETOUR SHALL BE PLACED TO PROVIDE ADEQUATE SIGHT DISTANCE, AND AS DIRECTED BY THE ENGINEER.

LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT MD190 (RIVER ROAD)
 RAMP "G"

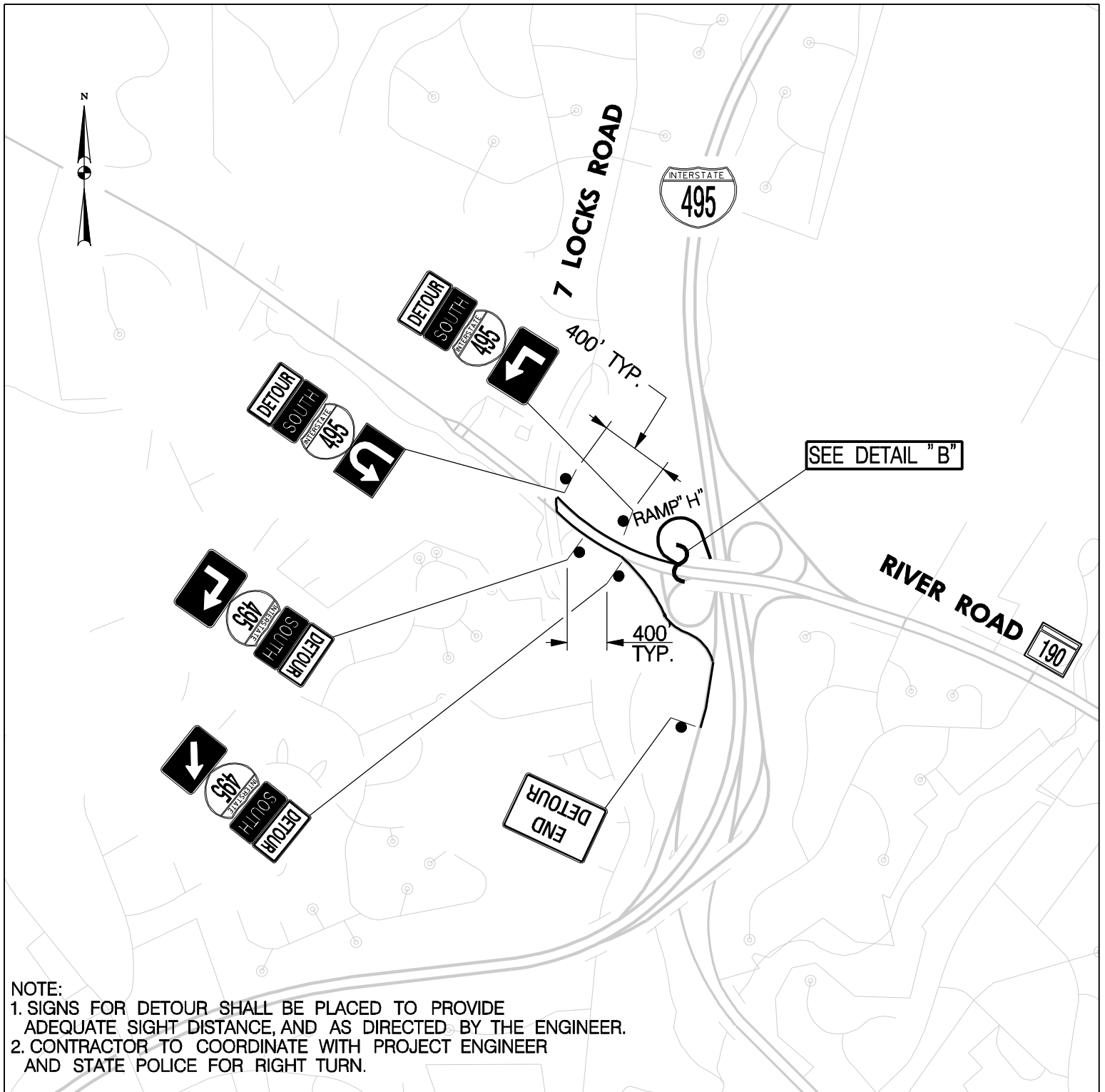
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

CONTRACT NO.: MO4505168

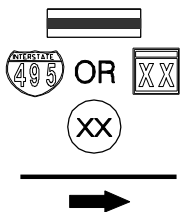
DRAWING NO. MOT-03 OF 10

SHEET NO. 3 OF 10

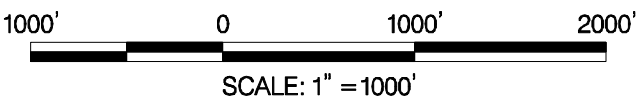


NOTE:
 1. SIGNS FOR DETOUR SHALL BE PLACED TO PROVIDE ADEQUATE SIGHT DISTANCE, AND AS DIRECTED BY THE ENGINEER.
 2. CONTRACTOR TO COORDINATE WITH PROJECT ENGINEER AND STATE POLICE FOR RIGHT TURN.

LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 EXIT NUMBER
 DETOUR ROUTE



PVMS SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS	± 1200'	± 700'	± 800'	
	W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	R11-2(MOD) 48" X30" 10 SF



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT MD190 (RIVER ROAD)
 RAMP "H"

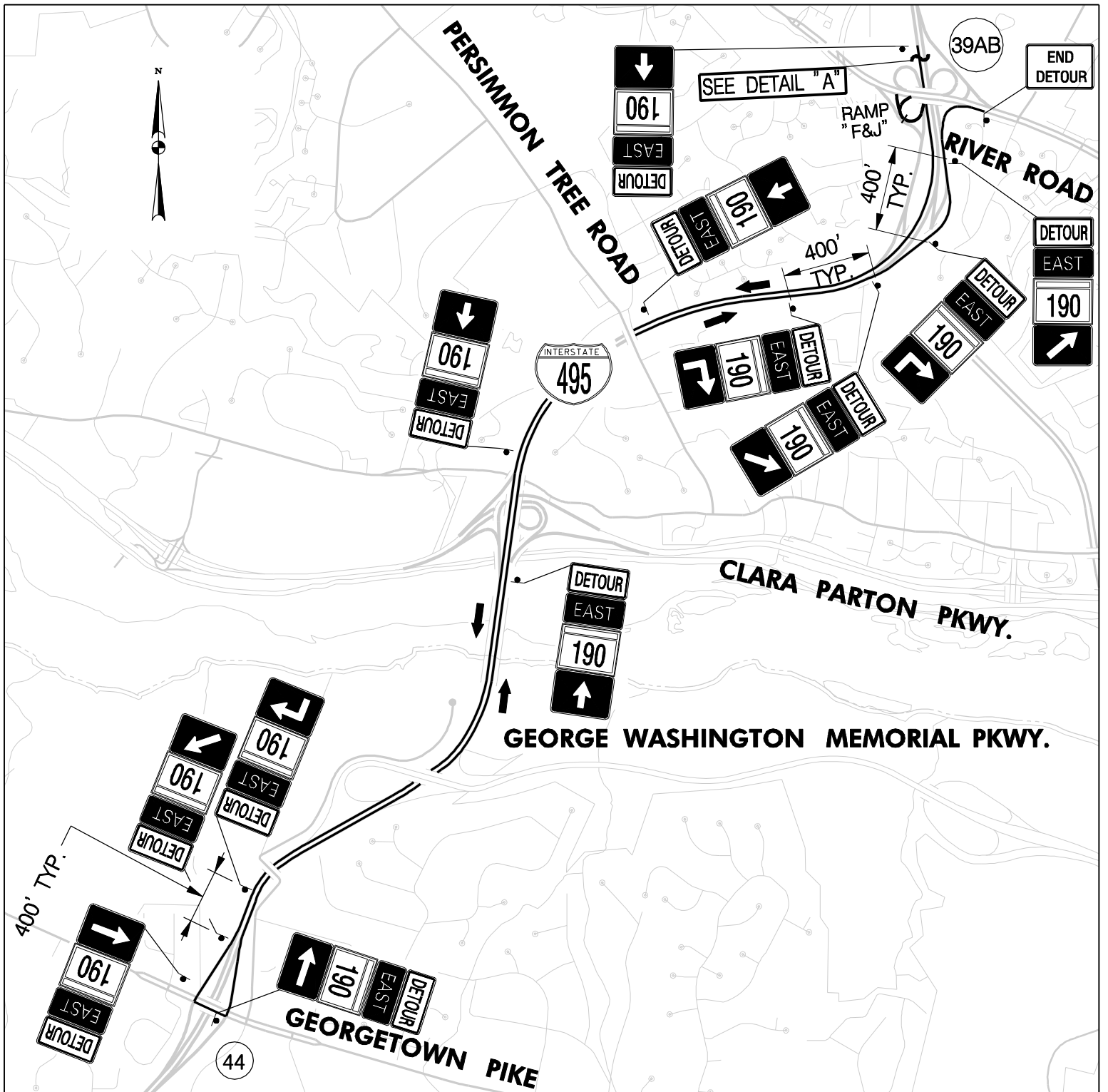
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

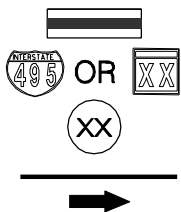
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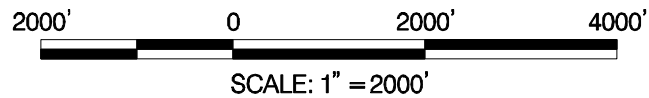
SHEET NO. 4 OF 10



LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 EXIT NUMBER
 DETOUR ROUTE



PVMS	DETAIL "A"	±1/2 MI.	±1100'	±700'
	 W20-2 48" X48" 16 SF	 W20-2 48" X48" 16 SF	 W20-2 48" X48" 16 SF	 R11-2(MOD) 48" X30" 10 SF
SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS				



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT MD 190 (RIVER ROAD)
 WEST CD ROADRAMP "F&J"

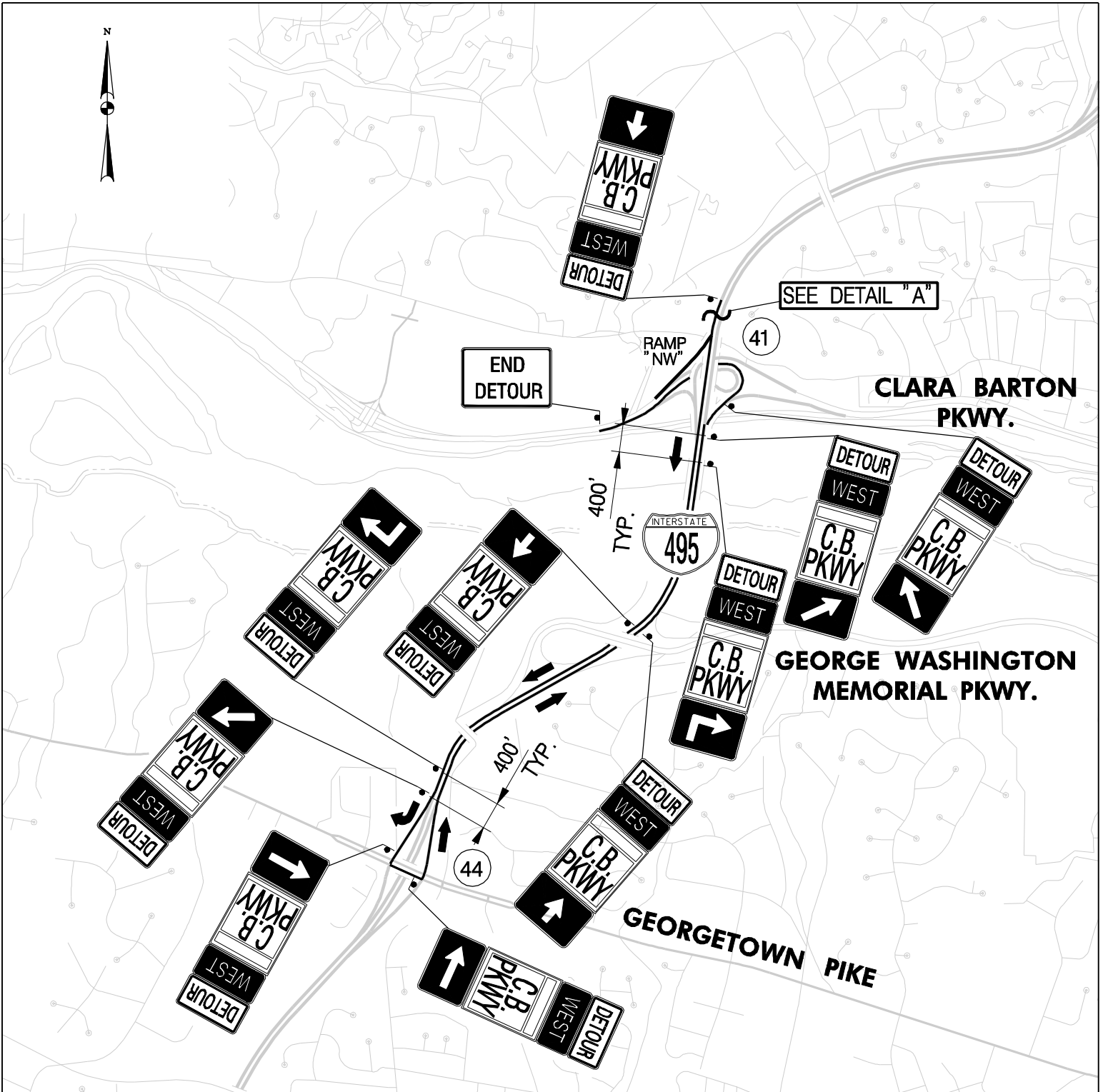
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

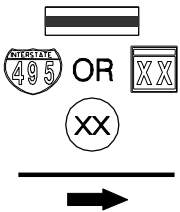
CONTRACT NO.: MO4505168

DRAWING NO. MOT-05 OF 10

SHEET NO. 5 OF 10

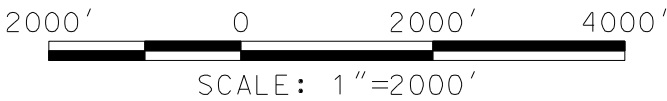


LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 EXIT NUMBER
 DETOUR ROUTE

PVMS	DETAIL "A"	±12 MI.	±1100'	±700'	
	SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS				
		W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	R11-2(MOD) 48" X30" 10 SF



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT CLARA BARTON PARKWAY
 RAMP "NW"

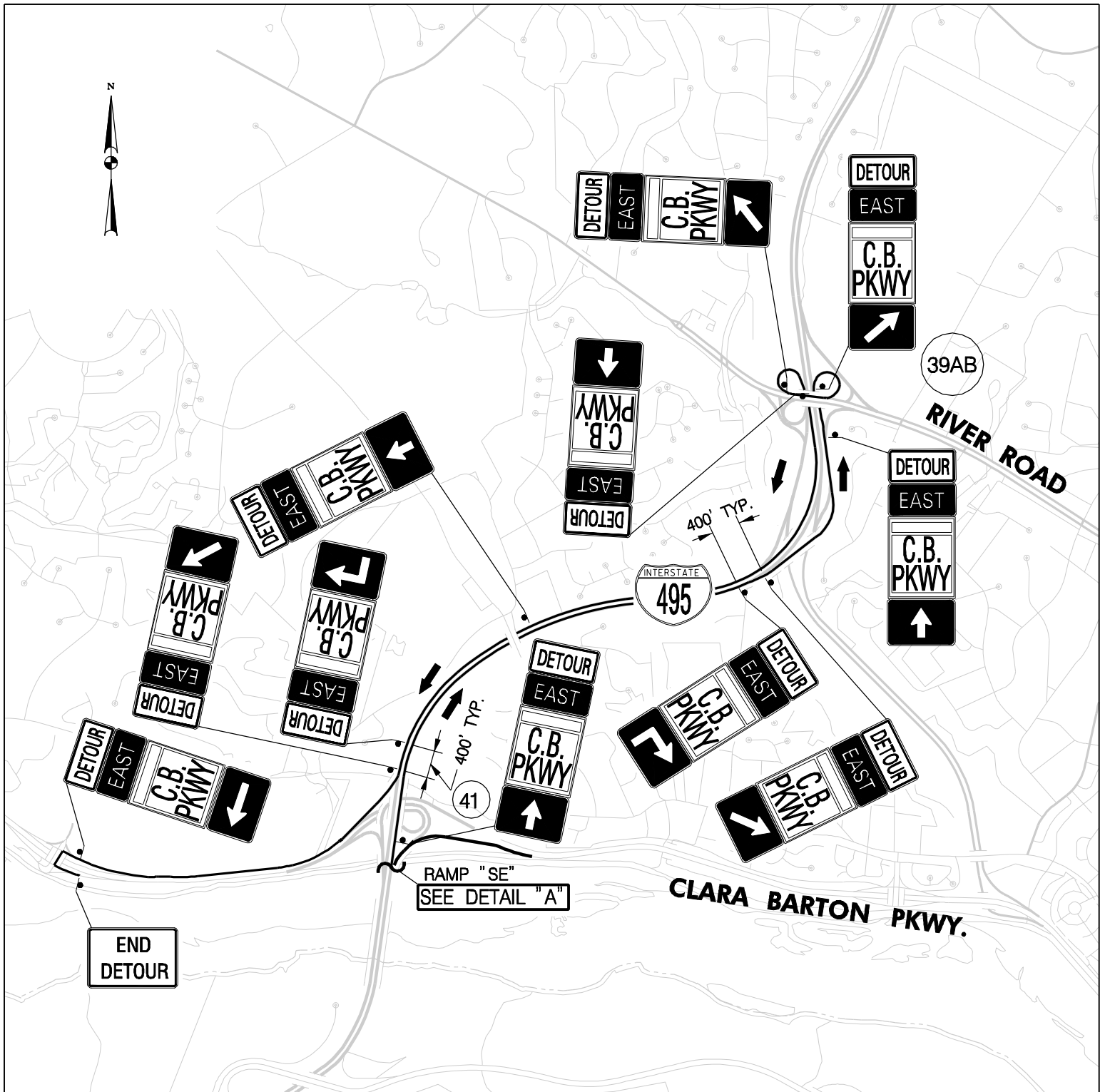
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

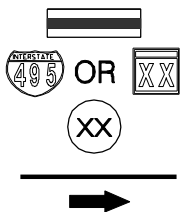
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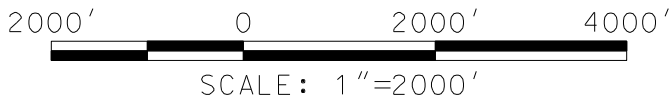
SHEET NO. 6 OF 10



LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



 PVMS SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS	DETAIL "A"	±12 MI.	±1100'	±700'	
	W20-2 48" X48"	W20-2 48" X48"	W20-2 48" X48"	R11-2(MOD)	
	16 SF	16 SF	16 SF	48" X30" 10 SF	



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT CLARA BARTON PARKWAY
 RAMP "SE"

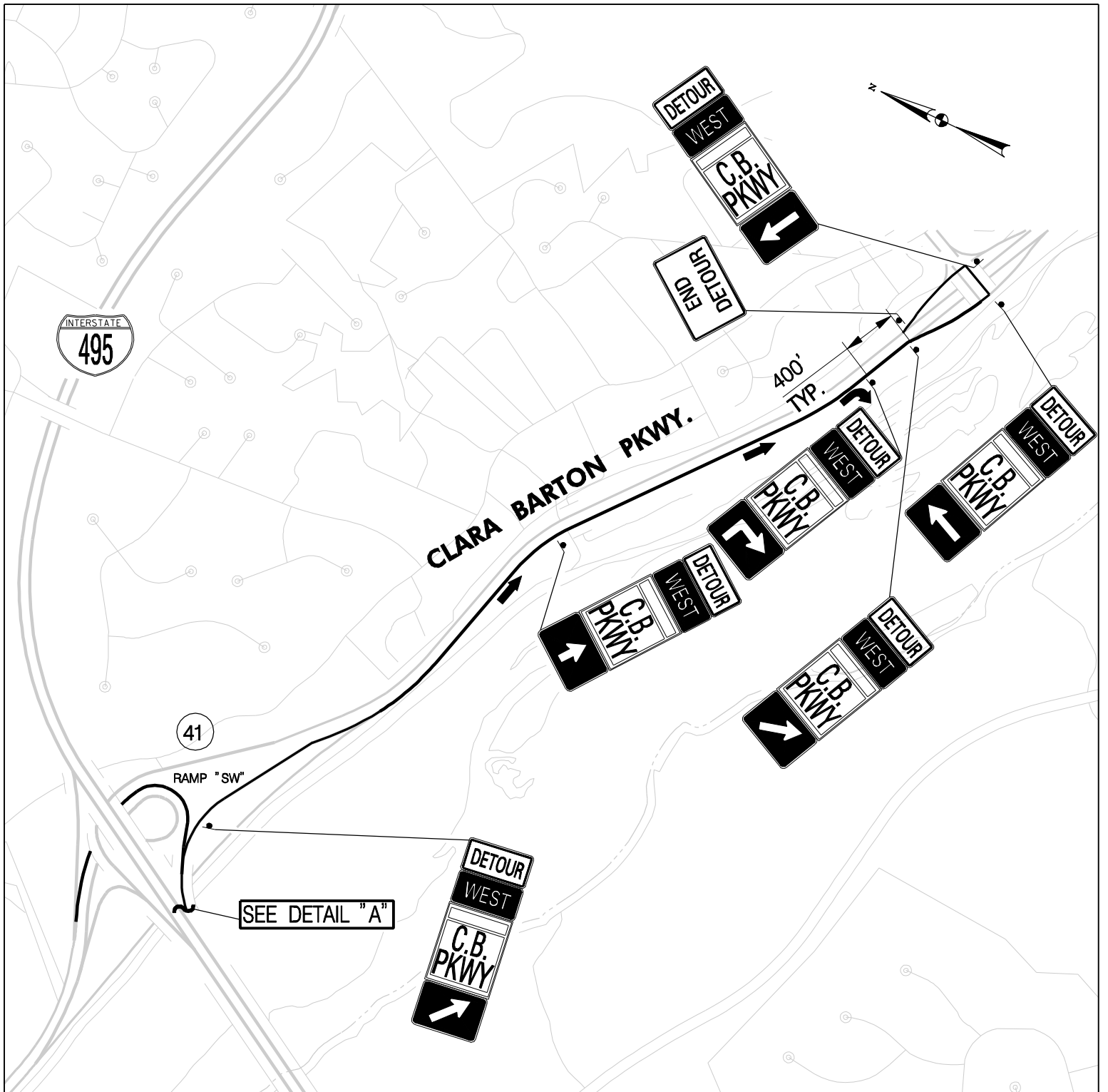
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

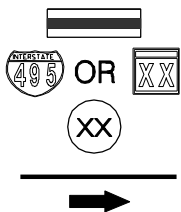
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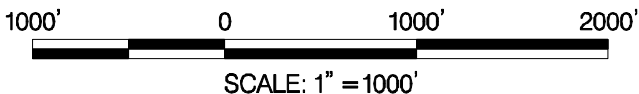
SHEET NO. 7 OF 10



LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



 SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS	DETAIL "A"	±12 MI.	±1100'	±700'	
	W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	W20-2 48" X48" 16 SF	R11-2(MOD) 48" X30" 10 SF	



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT CLARA BARTON PARKWAY
 RAMP "SW"

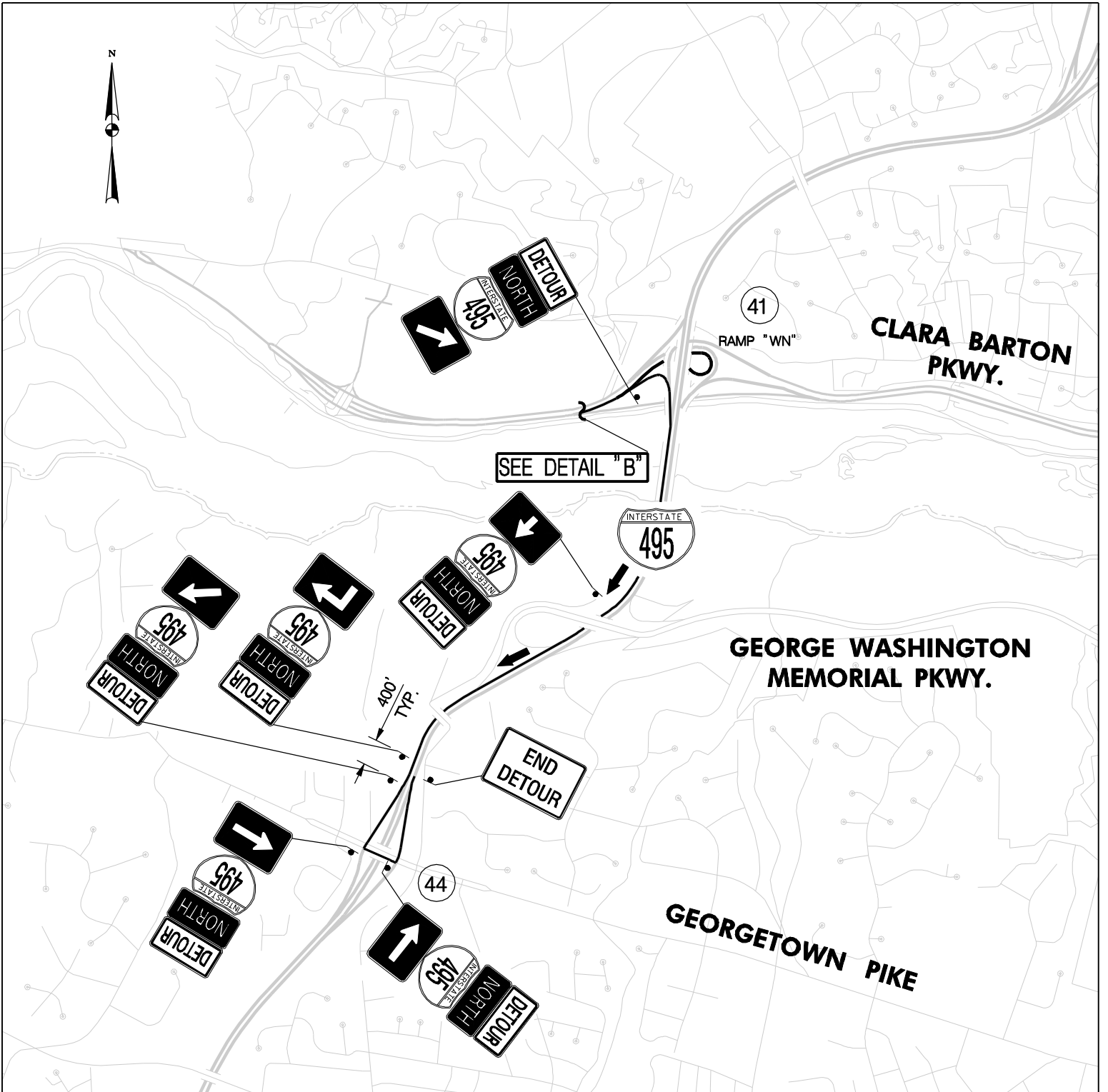
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

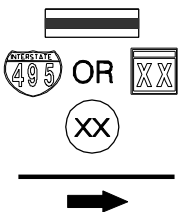
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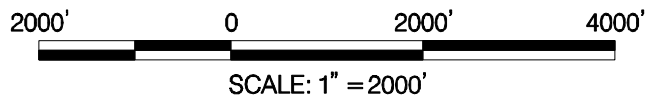
SHEET NO. 8 OF 10



LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



PVMS SEE STD. NO. MD 104.01-22 FOR PLACEMENT OF PVMS	± 1200' DETOUR 1/2 MI. W20-2 48" X48" 16 SF	± 700' DETOUR 1500 FT. W20-2 48" X48" 16 SF	± 800' DETOUR 800 FT. W20-2 48" X48" R11-2(MOD) 16 SF	RAMP CLOSED 48" X30" 10 SF
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I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT CLARA BARTON PARKWAY
 RAMP "WN"

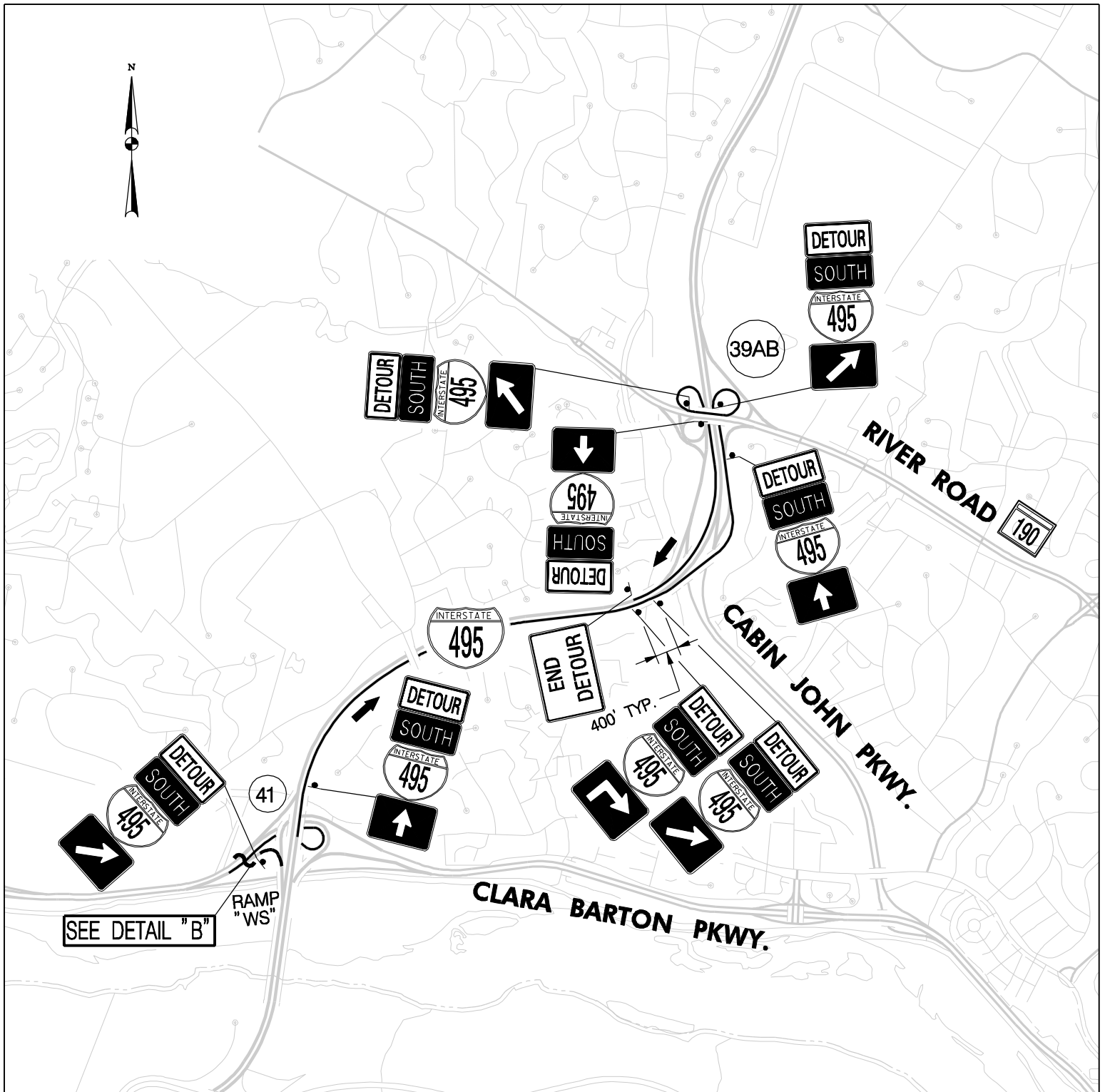
RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

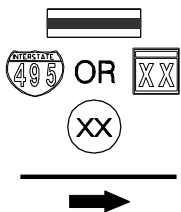
CONTRACT NO.: MO4505168

DRAWING NO. MOT-09 OF 10

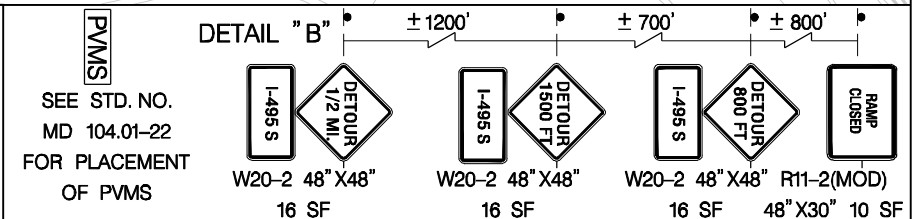
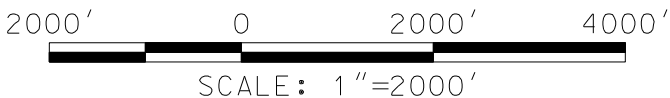
SHEET NO. 9 OF 10



LEGEND



CLOSED AREA
 ROAD NUMBER
 EXIT NUMBER
 DETOUR ROUTE



I-495 CAPITAL BELTWAY
 FROM POTOMAC RIVER TO I-270
 I-495 AT CLARA BARTON PARKWAY
 RAMP "WS"

RAMP CLOSURE DETOUR PLAN

DATE: NOV. 2008

CONTRACT NO.: MO4505168

DRAWING NO. MOT-10 OF 10

SHEET NO. 10 OF 10

State of Maryland State Highway Administration Pavement and Geotechnical Division	Contract:	MO4505168	
	Project:	I-495 from Potomac River to I-270	
	Date:	October 2008	Page 1 of 6
Pavement Legend			
1.	2"	Hot Mix Asphalt Superpave 12.5 mm , PG 76-22, Gap Graded, Level 4	
2.	1"	Mix Asphalt Superpave 9.5 mm, for Base, PG 64-22, Level 4	
3.		Top of Existing Pavement after 2¼" Grinding	
4.		Top of Existing Pavement after 2" Grinding	
5.		Top of Existing Pavement prior to Grinding	
6.	5"	Hot Mix Asphalt Superpave 25.0 mm for Partial-Depth Patching – PG 64-22, Level 4	
Notes:			
1.		Use the following Items for Wedge/Level, as directed by Engineer: Variable depth Hot Mix Asphalt Superpave 9.5 mm for Wedge/Level - PG 64-22, Level 4 (Minimum lift 1", Maximum lift 2") for areas less than 3" in depth	
2.		Information from the construction history indicates that the existing pavement structure has primarily two sections, consisting of approximately 0.75" of PMS over 8" to 12" of HMA over 18" to 21" of Crushed Stone and 7" to 12" of HMA over 13" to 18" of Graded Aggregate Base.	
3.		Use the following Item for Grinding as directed by Engineer: Grinding Hot Mix Asphalt Pavement 0 to 2 inch (530100).	
SCALE: NONE		DRAWN BY: RS	
		APPROVED BY: GMH	

**State of Maryland
State Highway Administration
Pavement and Geotechnical Division**

Contract: MO4505168

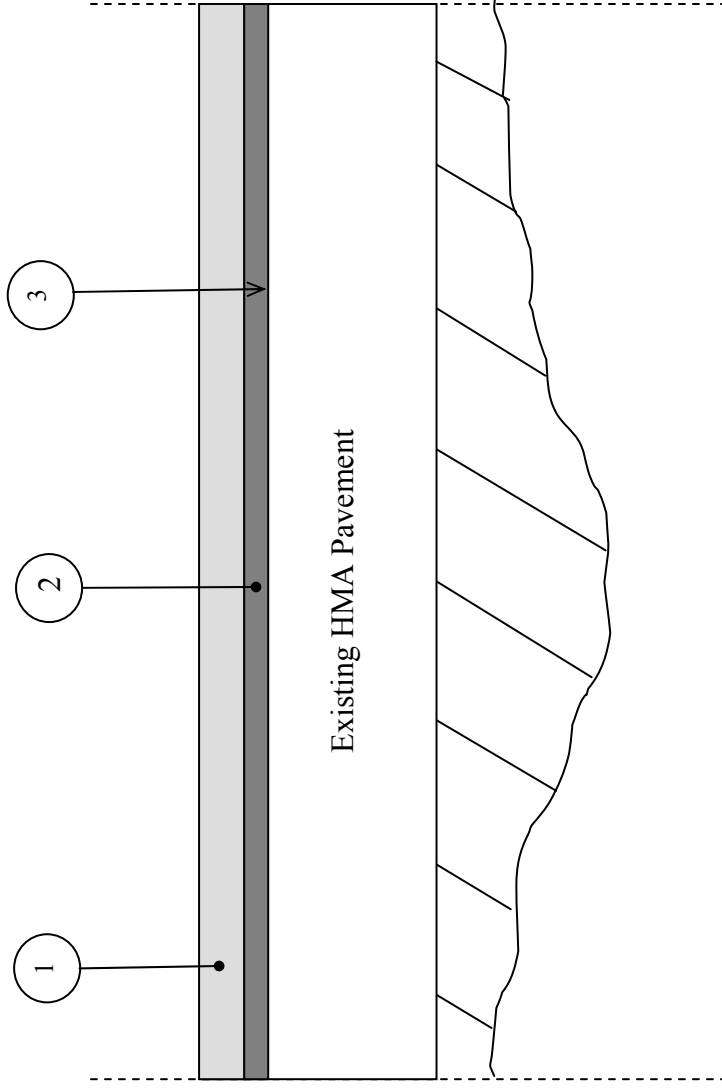
Project: I-495 from Potomac River to I-270

Date: October 2008

Page 2 of 6

Pavement Section

I-495, and Shoulder – Grinding and Resurfacing



SCALE : NONE

DRAWN BY: RS

APPROVED BY: GMH

**State of Maryland
State Highway Administration
Pavement and Geotechnical Division**

Contract: MO4505168

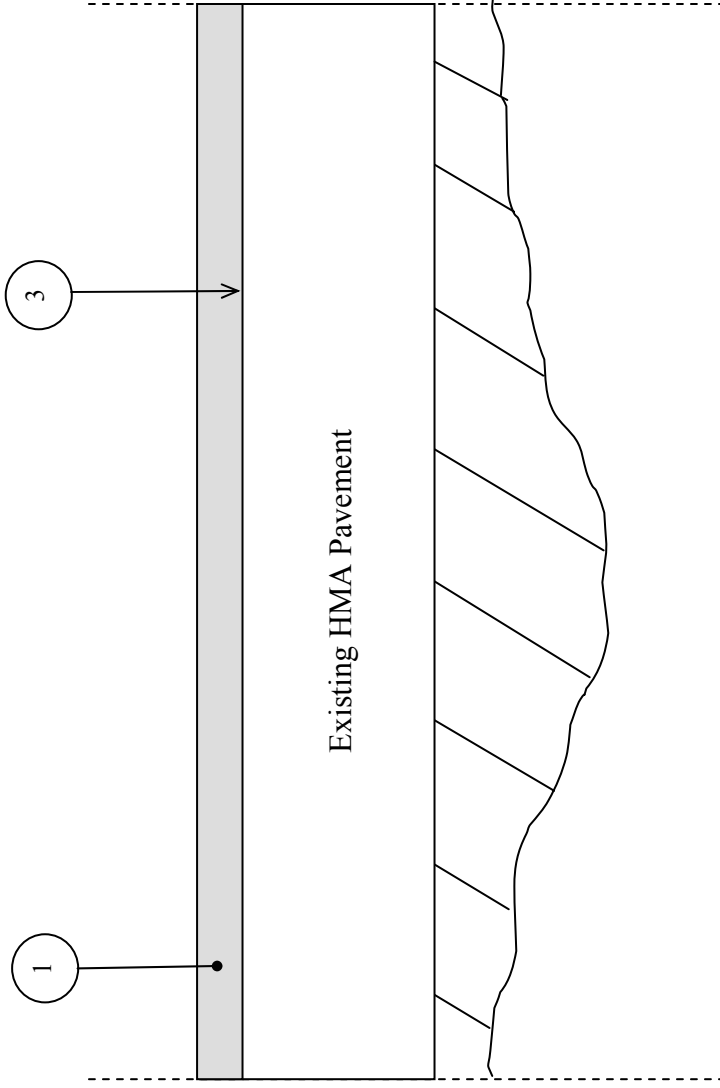
Project: I-495 from Potomac River to I-270

Date: October 2008

Page 3 of 6

Pavement Section

I-495 Ramps – Grinding and Resurfacing



SCALE : NONE

DRAWN BY: RS

APPROVED BY: GMH

**State of Maryland
State Highway Administration
Pavement and Geotechnical Division**

Contract: MO4505168

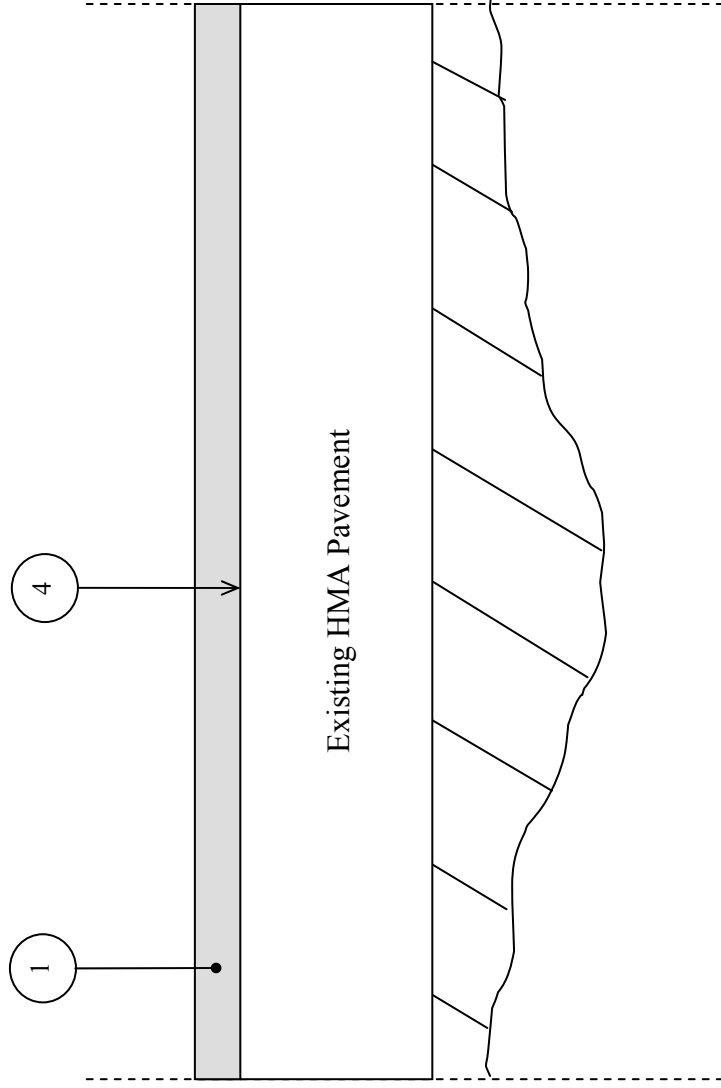
Project: I-495 from Potomac River to I-270

Date: October 2008

Page 4 of 6

Pavement Section

I-495 and Shoulder – Grinding and Resurfacing
From Sta 304+00 ± to 310+00 ±, 10+00 ± to 17+00 ± and 33+50 ± to 41+50 ±



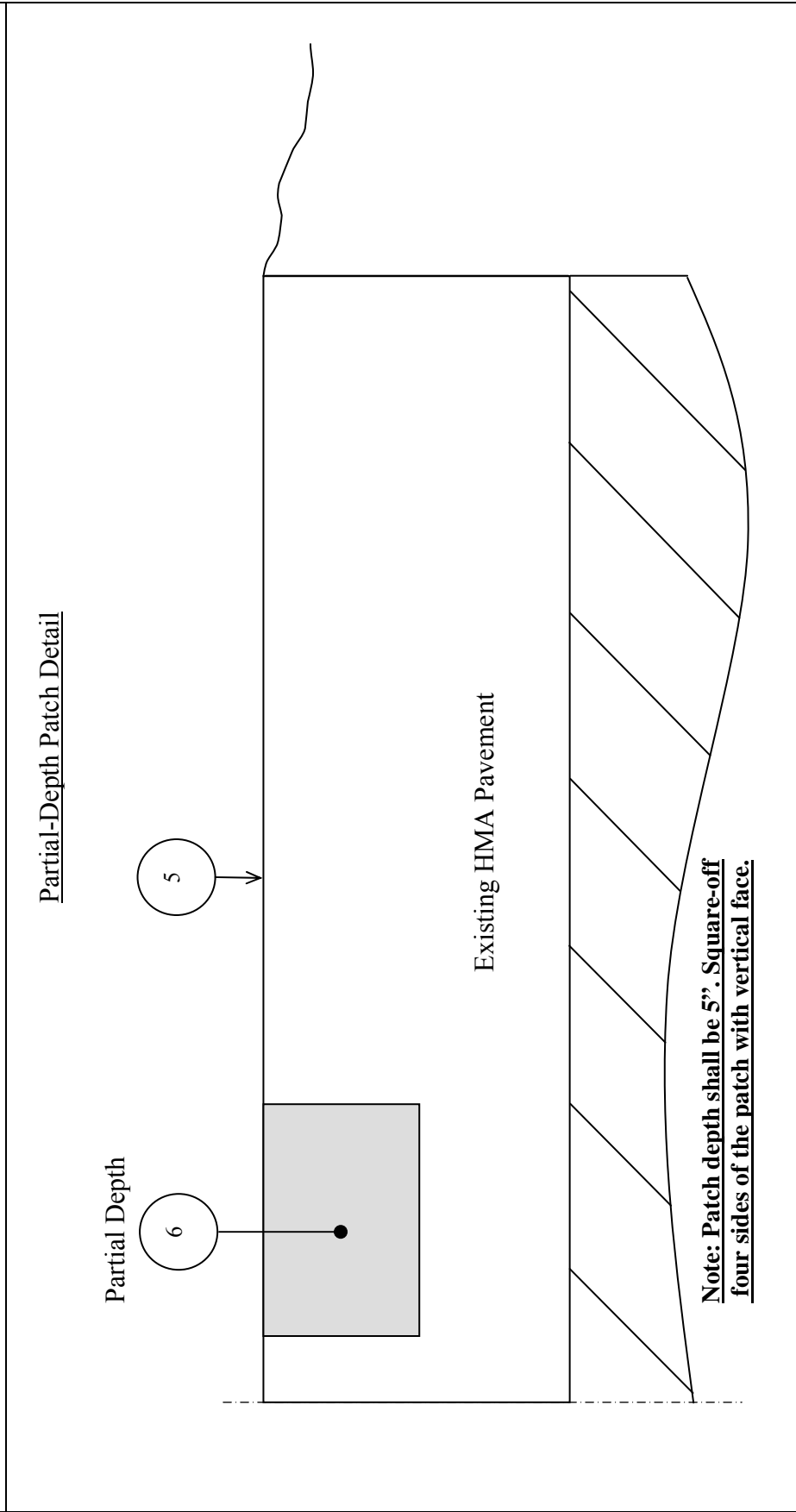
SCALE : NONE

DRAWN BY: RS

APPROVED BY: GMH

State of Maryland State Highway Administration Pavement and Geotechnical Division		Contract:	MO4505168
		Project:	I-495 from Potomac River to I-270
		Date:	October 2008
			Page 5 of 6

Pavement Section



SCALE: NONE	DRAWN BY: RS	APPROVED BY: GMH
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**State of Maryland
State Highway Administration
Pavement Division**

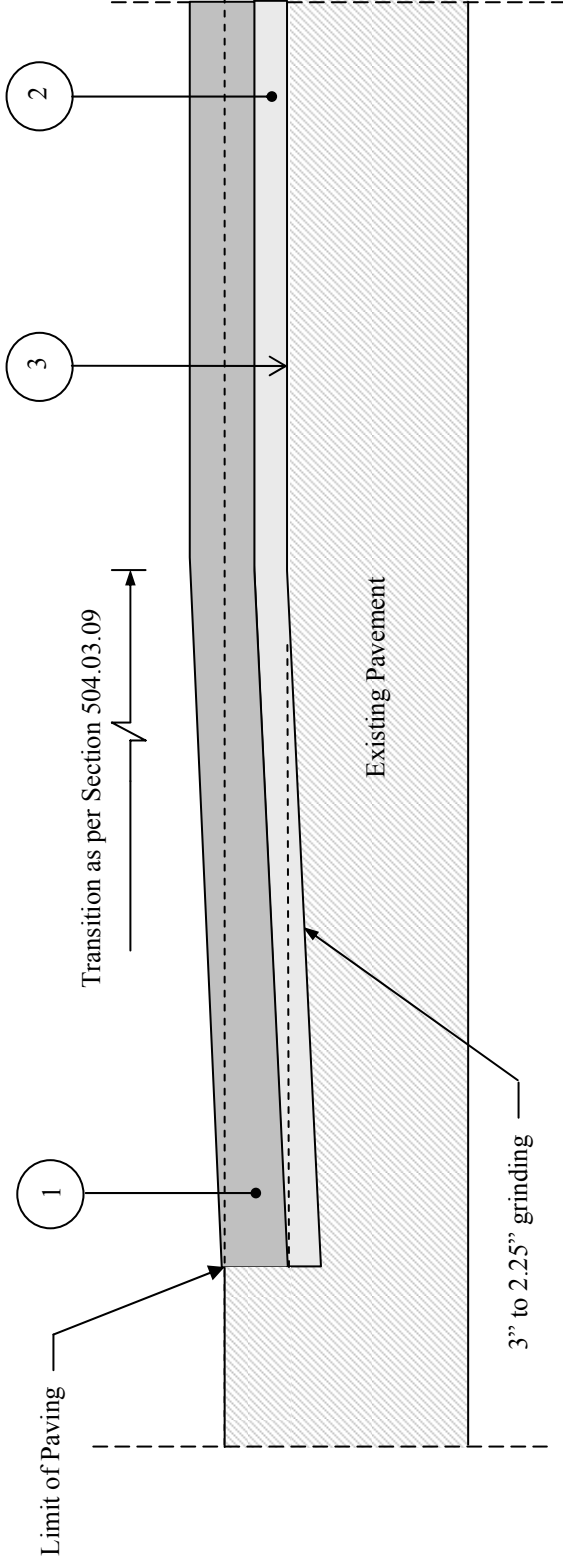
Contract: MO4505168

Project: I-495 from Potomac River to I-270

Date: October 2008 Page 6 of 6

Pavement Section

Final Tie-in (2.25" grinding/3" resurfacing) for the sections between Floodplain areas and Non-floodplain areas and under the Bridges



SCALE : NONE

DRAWN BY: RS

APPROVED BY: GMH

I-495 Outer Loop Drainage Structure Schedule

Station	Location	Type of Structure	depth (ft)	Type of Repair
Ramp F (Interchange at MD 190 and I-495)				
1600+00	Right shoulder	Curb opening	N/A	Replace curb opening with 10' COG/COS opening (MD 374.68).

Ramp H (Interchange at MD 190 and I-495)				
1702+50	Right shoulder	Curb opening	N/A	Replace curb opening with 10' COG/COS opening (MD 374.68).

I-495 West CD Road				
53+84	Right shoulder	NRM Inlet	9.5	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
905+27	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.
906+54	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.

Ramp NW (Interchange between Clara Barton Parkway and I-495)				
703+05	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.
707+24	Right shoulder	NRM Inlet.	4.58	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).

I-495 Outer Loop (O.L)				
150+18	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
151+26	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
161+00	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
162+00	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
13+82	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace south grate with standard Type S Inlet Grate (MD 379.05).
40+45	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4")

Station	Location	Type of Structure	depth (ft)	Type of Repair
76+00	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace north grate with standard Type S Inlet Grate (MD 379.05).
103+25	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4").
110+22	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x8"x4").
123+90	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3)between I-beam and grate (2.5'x8"x4").
127+88	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x8"x4").
143+92	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x8"x4").
147+50	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x8"x4").
149+00	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
150+25	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
151+00	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
159+00	Left shoulder/Median	S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x 8"x4").
159+75	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
161+00	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
162+00	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
162+75	Left shoulder/Median	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.

General notes.

- 1) Clean all existing inlets and storm drain pipes within project limits.
- 2) Apply Mix No. 3 concrete patching to minor cracks or spalling on concrete surface in inlet.

I-495 Inner Loop Drainage Structure Schedule

Station	Location	Type of Structure	depth (ft)	Type of Repair
Ramp A (Interchange at MD 190 and I-495)				
1509+17	Right shoulder	Curb opening	N/A	Replace curb opening with 10 FT COG/COS opening (MD 374.68).
Ramp D (Interchange at MD 190 and I-495)				
1406+32	Right shoulder	NRM Inlet	N/A	374.15). Use Std. Type D Manhole Frame and Cover on replacement top slab (MD 383.61).
1409+72	Right shoulder	Curb opening	N/A	Replace curb opening with 10 FT COG/COS opening (MD 374.68).
I-495 East CD Road				
1505+45	Left shoulder	Type S Inlet double grate tandem.	N/A	Replace both grates with Standard Type S Inlet Grate (MD 379.05).
Ramp SE (Interchange between Clara Barton Parkway and I 495)				
605+20	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.
606+22	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.
607+25	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type V Bridge Scupper grate {BR-SS(0.12)-83-151}.
221+38	Right shoulder	NRM Inlet.	4.25	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
224+00	Right shoulder	NRM Inlet.	3.5	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
226+94	Left shoulder	NRM Inlet.	4.5	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
230+65	Left shoulder	NRM Inlet.	7	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
235+29	Left shoulder	Type E Combination Inlet with Grate & Curb Opening.	12.25	Remove existing inlet and replace with Standard Type E Combination Inlet (MD-376.21).

Station	Location	Type of Structure	depth (ft)	Type of Repair
Ramp SW (Interchange between Clara Barton Parkway and I 495)				
611+43	Left shoulder	NRM Inlet.	7	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
615+00	Left shoulder	Type E Combination Inlet with Grate & Curb Opening.	7	Remove existing inlet and replace with Standard Type E Combination Inlet (MD-376.21).

Ramp WN (Interchange between Clara Barton Parkway and I 495)				
823+80	Left shoulder	NRM Inlet.	4.25	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
821+96	Left shoulder	NRM Inlet.	3.5	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
817+53	Right shoulder	NRM Inlet.	3.83	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
815+40	Right shoulder	NRM Inlet.	4.25	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
812+00	Right shoulder	NRM Inlet.	4.92	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).
809+84	Right shoulder	NRM Inlet.	9	Remove existing inlet and replace with Standard NRM Inlet (MD-374.15).

I-495 Inner Loop (I.L.)				
160+50	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
160+00	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
150+96	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
150+05	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.

Station	Location	Type of Structure	depth (ft)	Type of Repair
149+21	Right shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
49+30	Right shoulder/ Grass Island	Single opening Type K Inlet open end grate.	N/A	Replace grate with Standard Type K Inlet Replacement Grate (MD 378.04)
10+00/ 310+00	Right shoulder/ Grass area	Single opening Type K Inlet open end grate.	N/A	Replace grate with Standard Type K Inlet Replacement Grate (MD 378.04)
162+50	Left shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
162+00	Left shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
161+00	Left shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
160+00	Left shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
158+76	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4").
151+06	Left shoulder	Bridge scupper with grate.	N/A	Replace grate with standard Type IA Bridge Scupper grate {BR-SS(0.04)-81-130}.
110+22	Left shoulder	Type S inlet Double Grate Tandem	N/A	Patch Inlet wall (5'x3'). Replace concrete pad (Mix No.3) between I-beam and grate(2.5'x8"x4").
91+54	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate(2.5'x8"x4").
87+77	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4"). Replace north grate with standard Type S Inlet Grate (MD 379.05).
81+43	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4"). Replace both grates with standard Type S Inlet Grate (MD 379.05).

Station	Location	Type of Structure	depth (ft)	Type of Repair
75+61	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace north grate with standard Type S Inlet Grate (MD 379.05).
61+02	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No. 3) between I-beam and grate (2.5'x8"x4")
56+15	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace concrete pad (Mix No.3) between I-beam and grate (2.5'x8"x4")
33+43	Left shoulder	Type S inlet Double Grate Tandem	N/A	Replace north grate with standard Type S Inlet Grate (MD 379.05).
27+10	Left shoulder	Type S inlet Double Grate Tandem	N/A	Concrete (Mix No.3) patching (1 cubic ft).
743+15	Right shoulder	Concrete Channel downstream of End-Wall	N/A	Replace 10' concrete channel in kind.

General notes.

- 1) Clean all existing inlets and storm drain pipes within project limits.
- 2) Apply Mix No. 3 concrete patching to minor cracks or spalling on concrete surface in inlet.

CATEGORY 600
TRAFFIC BARRIER W BEAM SCHEDULE
I-495 (INNER LOOP)

Contract No. MO4515168

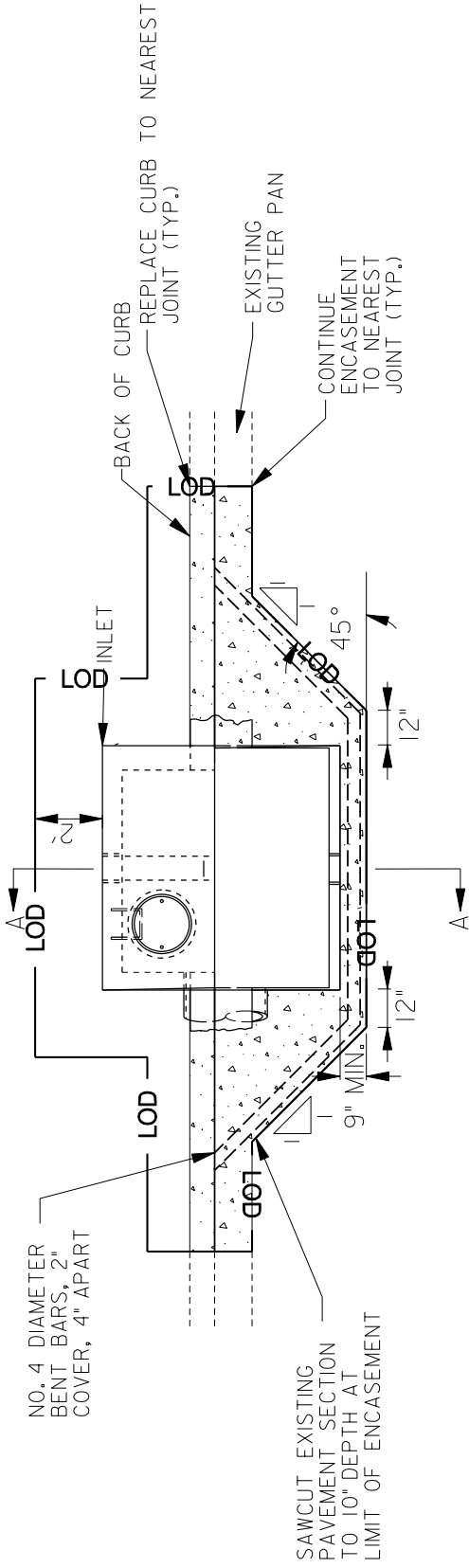
I-495 (INNER LOOP)							
Begin Station	End Station	Location	Description of Traffic Barrier W Beam Work	Length (ft)	End Treatment (Approach)	End Treatment (Trail)	Pay Item Summary
134+12	121+47	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 124+84 to Sta. 124+34 - MD SHA STD# 605.22	50	Maintain Existing End Treatment - Type A	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	50 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 123+53 to Sta. 123+40.5 - MD SHA STD# 605.22	12.5			12.5 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 123+07 to Sta. 122+82 - MD SHA STD# 605.22	25			25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
116+55	99+70	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 112+34 to Sta. 112+21.5 - MD SHA STD# 605.22	12.5	Maintain Existing End Treatment - Type C	Maintain Existing End Treatment - Type K	12.5 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 106+24 to Sta. 105+99 - MD SHA STD# 605.22	25			25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 102+96 to Sta. 102+33.50 - MD SHA STD# 605.22	62.5			62.5 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
98+25	97+82	Right Shoulder	Maintain Existing Traffic Barrier W-Beam		Maintain Existing End Treatment - Type A	Maintain Existing End Treatment - Type A	
91+75	86+89	Right Shoulder	Remove and Replace Traffic Barrier W Beam From Sta. 91+85 to Sta. 91+60 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - Type A	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	25 LF Remove and Replace Traffic Barrier W Beam, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 87+28 to Sta. 87+15.50 - MD SHA STD# 605.22	12.5			12.5 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
19+77	16+05	Median	Replace Traffic Barrier W Beam Panel from Sta. 19+50 to Sta. 19+25 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
19+27	17+09	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 18+88 to Sta. 18+63 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	Maintain Existing End Treatment - Type K	25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
12+39	307+10	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 11+52 to Sta. 11+27 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - Type A	Maintain Existing End Treatment - Thrie Beam (Wood Post)	25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
749+10	742+08	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 743+77 to Sta. 743+52 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	Maintain Existing End Treatment - Thrie Beam (Wood Post)	25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
742+39	Cont. after Project Limit	Right Shoulder	Replace Traffic Barrier W Beam Panel from Sta. 739+32 to Sta. 739+07 - MD SHA STD# 605.22	25	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 737+36 to Sta. 737+11 - MD SHA STD# 605.22	25			25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 736+80 to Sta. 736+55 - MD SHA STD# 605.22	25			25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
			Replace Traffic Barrier W Beam Panel from Sta. 735+30 to Sta. 735+05 - MD SHA STD# 605.22	25			25 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22

CATEGORY 600
TRAFFIC BARRIER W BEAM SCHEDULE
I-495 (INNER LOOP)

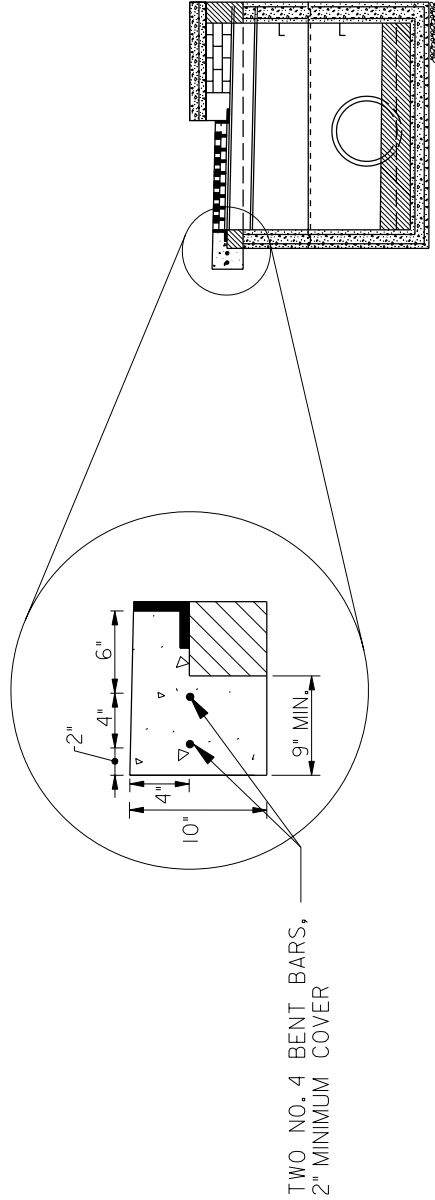
Contract No. MO4515168

I-495 (INNER LOOP)							
Begin Station	End Station	Location	Description of Traffic Barrier W Beam Work	Length (ft)	End Treatment (Approach)	End Treatment (Trail)	Pay Item Summary
RAMPS							
811+60	800+40	Left Shoulder - Ramp WN	Remove wooden rail and install new traffic barrier w beam from Sta. 811+60 to sta. 801+70 - MD SHA STD# 605.22 Remove Type K End treatment @ Sta. 801+70	400	Install Type C Traffic Barrier End Treatment - MD SHA STD# 605.03	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	400 LF Traffic Barrier W Beam using 8 foot post - MD SHA STD# 605.25 1 EA Type C traffic barrier end treatment - MD SHA STD# 605.03
611+55	614+15	Right Shoulder - Ramp SW	Replace Traffic Barrier W Beam Panel from Sta. 613+61 to 613+73.5 - MD SHA STD# 605.22	12.5	Maintain Existing End Treatment - Type G	Maintain Existing End Treatment - Type K	12.50 LF Traffic Barrier W Beam Panel, MD SHA STD# 605.22
608+17	610+25	Right Shoulder - Ramp SW	Remove wooden rail and install new traffic barrier w beam from Sta. 608+55 to Sta. 610+25 - MD SHA STD# 605.22 Remove Type K End treatment @ Sta. 608+55	170	Maintain Existing End Treatment - W Beam Anchorage to Trail end of F Shape	Install Type K Traffic Barrier End Treatment - MD SHA STD# 605.10	170 LF Traffic Barrier W Beam using 8 foot post - MD SHA STD# 605.25 1 EA Type K traffic barrier end treatment - MD SHA STD# 605.10
224+45	227+45	Right Shoulder - Ramp SW	Remove wooden rail and install new traffic barrier w beam from Sta. 224+45 to Sta. 226+95 - MD SHA STD# 605.22	250	Install Type C Traffic Barrier End Treatment - MD SHA STD# 605.03	Install Type K Traffic Barrier End Treatment - MD SHA STD# 605.10	250 LF Traffic Barrier W Beam using 8 foot post - MD SHA STD# 605.25 1 EA Type C traffic barrier end treatment - MD SHA STD# 605.03 1 EA Type K traffic barrier end treatment - MD SHA STD# 605.10
221+90	228+00	Left Shoulder - Ramp SW	Remove wooden rail and install new traffic barrier w beam from Sta. 221+90 to Sta. 227+50 - MD SHA STD# 605.22	560	Install Type C Traffic Barrier End Treatment - MD SHA STD# 605.03	Install Type K Traffic Barrier End Treatment - MD SHA STD# 605.10	560 LF Traffic Barrier W Beam using 8 foot post - MD SHA STD# 605.25 1 EA Type C traffic barrier end treatment - MD SHA STD# 605.03 1 EA Type K traffic barrier end treatment - MD SHA STD# 605.10

DETAIL-A INLET REPLACEMENT DETAIL ADJACENT TO CURB AND GUTTER




PLAN - INLET AT CURB



SECTION A-A

NOTES

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN THE SAME WORKING DAY.



RJM ENGINEERING, INC.
CONSULTING ENGINEERS
COLUMBIA, MARYLAND



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
DISTRICT 3

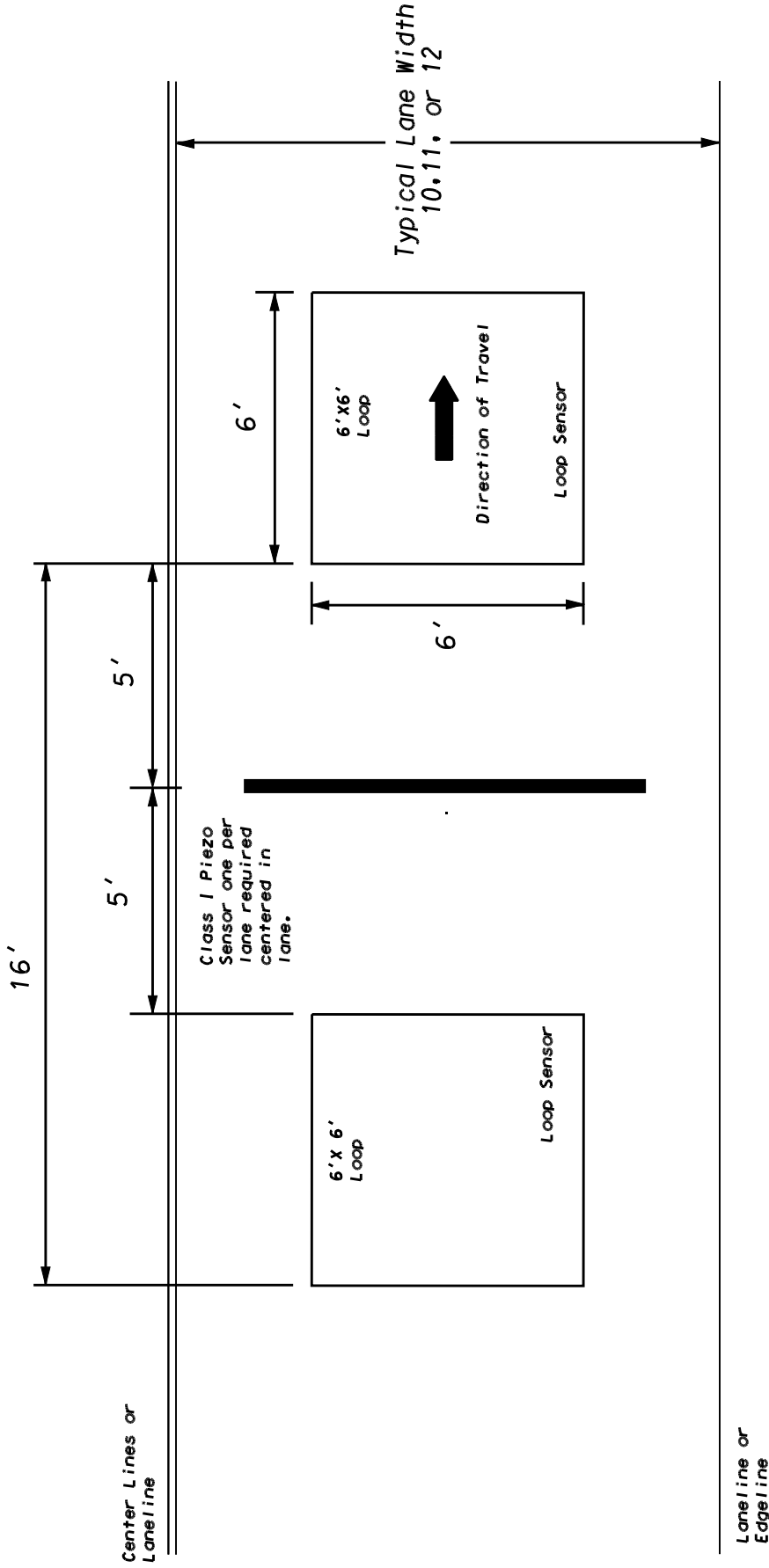
I-495 FROM POTOMAC RIVER
TO I-270- FINAL REVIEW

REVISIONS

SCALE	DATE	BY	CONTRACT NO.	PROJECT NO.
DESIGNED BY	US	COUNTY	MONROEMERY	
DRAWN BY	US	COUNTY	LODMIE	
CHECKED BY	JW			
DRAWING NO.		OF	SHEET NO.	OF

DATE PLOTTED: 11/11/04

TYPICAL ATR LANE LAYOUT TYPE I



- Note:**
1. The contractor shall contact Mr. Barry Balzanna at 410-545-5509 at least 72 hrs prior to any construction to schedule a stake out meeting for sensor locations
 2. Piezo to be centered in lane.
 3. Loops to be centered in lane.

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY

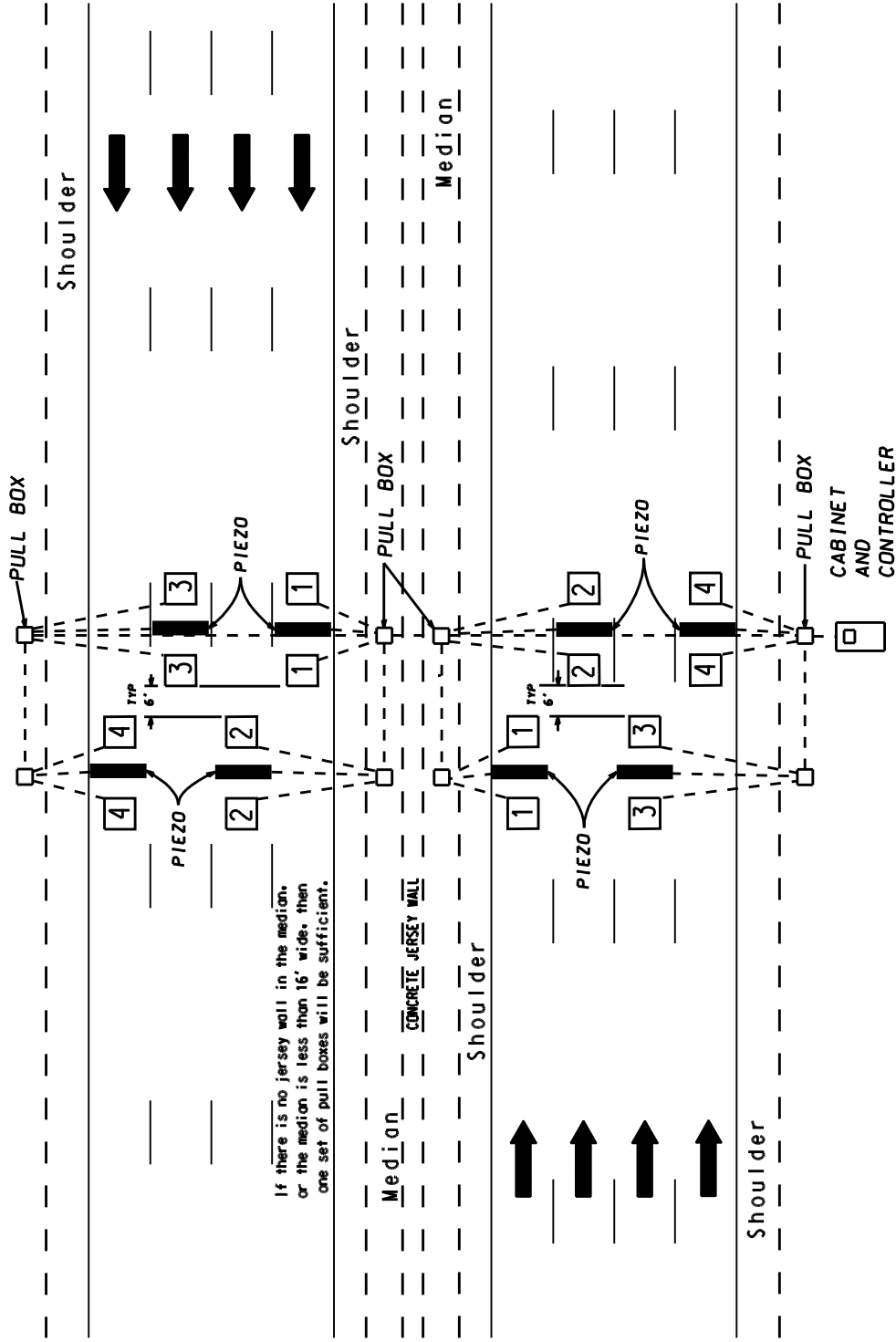
ATR LANE LAYOUT TYPE I

APPROVED _____
 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
 SPECIFICATION CATEGORY CODE ITEMS



TYPICAL NO.

TYPICAL ATR SINGLE LANE LAYOUT TYPE I



If there is no jersey wall in the median, or the median is less than 16' wide, then one set of pull boxes will be sufficient.

- Note:
1. Piezo to be centered in lane.
 2. Loops to be centered in lane.

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
ATR LANE LAYOUT TYPE I
SINGLE LANE EACH DIRECTION

DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
SPECIFICATION	CATEGORY CODE ITEMS



TYPICAL NO.



**STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
PROPOSAL FORM**

Proposal by _____
Name

Address (Street and/or P.O. Box)

City State Zip
() ()

A.C. Phone No. A.C. Fax No.

to furnish and deliver all materials and to do and perform all work, in conformance with the Standard Specifications, revisions thereto, General Provisions and the Special Provisions in this contract to I-495 (Capital Beltway) located in, Montgomery County, Maryland, for which Invitation for Bids will be received until 12:00 o'clock noon on Thursday, March 26, 2009, this work being situated as follows: I-495 (Capital Beltway): From Potomac River to I-270

To the State Highway Administration
BID BOX
7450 Traffic Drive
Hanover, Maryland 21076

In response to the advertisement by the Administration, inviting bids for the work in conformance with the Contract Documents, now on file in the office of the Administration. I/We hereby certify that I/we am/are the only person, or persons, interested in this bid proposal as principals, and that an examination has been made of the work site, the Specifications, the Plans, and Invitation for Bids, including the Special Provisions contained herein. I/We propose to furnish all necessary machinery, equipment, tools, labor and other means of construction, and to furnish all materials required to complete the project at the following unit price or lump sum price.

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
1001 110370	LUMP SUM	TYPE D ENGINEERS OFFICE	103	LUMP SUM			
1002 110500	100,000	EACH OF PRICE ADJUSTMENT FOR DIESEL FUEL	XXX SP	1	00	100,000	00
1003 114005	55,389	LINEAR FEET OF 5 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	104.11 SP				
1004 114010	85,549	LINEAR FEET OF 5 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	104.11 SP				
1005 114020	2,921	LINEAR FEET OF 10 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	104.11 SP				
1006 114215	19,884	LINEAR FEET OF 5 INCH YELLOW REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	104.11 SP				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
1007 114220	19,181	LINEAR FEET OF 5 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	104.11 SP				
1008 114230	854	LINEAR FEET OF 10 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	104.11 SP				
1009 114275	39,919	LINEAR FEET OF REMOVAL OF REMOVABLE PREFORMED PAVEMENT MARKINGS - ANY WIDTH	104.11 SP				
1010 114280	7,930	LINEAR FEET OF REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	104.11 SP				
1011 120500	LUMP SUM	MAINTENANCE OF TRAFFIC	104	LUMP SUM			
1012 120610	423	PER UNIT DAY ARROW PANEL	104.07				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
1013 120625	1,477	SQUARE FEET OF TEMPORARY TRAFFIC SIGNS HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SHEETING	104.08				
1014 120743	2	EACH OF TYPE III BARRICADE FOR MAINTENANCE OF TRAFFIC	104.13				
1015 120820	232	EACH OF DRUMS FOR MAINTENANCE OF TRAFFIC	104.12				
1016 120860	106	PER UNIT DAY PORTABLE VARIABLE MESSAGE SIGN	104.19				
1017 120890	180	PER UNIT DAY PROTECTION VEHICLE	104.23				
1018 130840	LUMP SUM	CONSTRUCTION STAKEOUT	107	LUMP SUM			

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
1019 130850	LUMP SUM	MOBILIZATION	108	LUMP SUM	_____	_____	_____
					_____	_____	_____
					_____	_____	_____
					_____	_____	_____
					_____	_____	_____
					_____	_____	_____

END OF CATEGORY NO. 1

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
2001 201032	60	CUBIC YARDS OF CLASS 2 EXCAVATION	201				

END OF CATEGORY NO. 2

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
3001 300000	27	EACH OF BRIDGE SCUPPER GRATE	XXX				
3002 300000	2	EACH OF TYPE K INLET GRATE	XXX				
3003 300000	9	EACH OF TYPE S INLET GRATE	XXX				
3004 301311	10	CUBIC YARDS OF MIX 2 CONCRETE FOR MISCELLANEOUS STRUCTURES	305				
3005 301320	20,000	LINEAR FEET OF CLEAN EXISTING PIPE ANY SIZE	305				
3006 301322	175	EACH OF CLEAN EXISTING INLETS	305				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
3007 372142	13	EACH OF STANDARD NRM INLET-MINIMUM DEPTH	305				
3008 372143	25	LINEAR FEET OF STANDARD NRM INLET-VERTICAL DEPTH	305				
3009 374110	4	EACH OF 10 FOOT COG/COS OPENING	XXX				
3010 376101	2	EACH OF STANDARD TYPE E COMBINATION INLET-MINIMUM DEPTH	305				
3011 376102	13	LINEAR FEET OF STANDARD TYPE E COMBINATION INLET-VERTICAL DEPTH	305				
3012 380910	1	EACH OF TYPE D FRAME AND COVER FOR MANHOLE	305				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
3013 388130	5	EACH OF QUARTERLY EROSION AND SEDIMENT CONTROL INCENTIVE	308 SP	750	00	3,750	00
3014 388135	LUMP SUM	FINAL EROSION AND SEDIMENT CONTROL INCENTIVE	308 SP	3,750	00	3,750	00
3015 389105	14	SQUARE YARDS OF 5 INCH CONCRETE DITCH	309				

END OF CATEGORY NO. 3

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
5001 504096	17,946	TONS OF HOT MIX ASPHALT SUPERPAVE 9.5MM FOR BASE, PG64-22, LEVEL-4	504				
5002 504106	20	TONS OF HOT MIX ASPHALT SUPERPAVE 9.5mm FOR WEDGE/LEVEL, PG64-22, LEVEL-4	504				
5003 504262	42,098	TONS OF HOT MIX ASPHALT SUPERPAVE 12.5MM, PG76-22, GAP GRADED, LEVEL-4	506				
5004 504444	50	TONS OF HOT MIX ASPHALT SUPERPAVE 25.0mm FOR PARTIAL DEPTH PATCH, PG64-22, LEVEL-4	505				
5005 504600	100,000	EACH OF PRICE ADJUSTMENT FOR ASPHALT BINDER	504 SP	1	00	100,000	00
5006 504605	191,311	EACH OF PAYMENT ADJUSTMENT FOR PAVEMENT DENSITY	504 SP	1	00	191,311	00

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
5007 530100	357,830	SQUARE YARDS OF GRINDING HOT MIX ASPHALT PAVEMENT 0 INCH TO 2 INCH	509				
5008 530105	154,182	SQUARE YARDS OF GRINDING HOT MIX ASPHALT PAVEMENT 0 INCH TO 1 INCH	509				
5009 535100	301,000	EACH OF PAVEMENT SURFACE PROFILE PAY ADJUSTMENT	535 SP	1	00	301,000	00
5010 585340	2,120	EACH OF SNOWPLOWABLE RAISED PAVEMENT MARKERS	557 SP				
5011 585342	2,120	EACH OF REMOVAL OF PLOWABLE RAISED PAVEMENT MARKERS	XXX				
5012 585405	19,181	LINEAR FEET OF 5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	553 SP				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
5013 585407	19,884	LINEAR FEET OF 5 INCH YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	553 SP				
5014 585408	854	LINEAR FEET OF 10 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	553 SP				
5015 585600	61,099	LINEAR FEET OF 5 INCH WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS	559 SP				
5016 585601	5,270	LINEAR FEET OF 5 INCH WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE CONTRAST PAVEMENT MARKINGS (PPRCP)	563 SP				
5017 585602	2,067	LINEAR FEET OF 10 INCH WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS	559 SP				
5018 585603	2,660	LINEAR FEET OF 5 INCH YELLOW PERMANENT PREFORMED PATTERNED REFLECTIVE CONTRAST PAVEMENT MARKINGS (PPRCP)	563 SP				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
5019 585604	32,845	LINEAR FEET OF 5 INCH YELLOW PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKINGS	559 SP				
5020 585610	4	EACH OF PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING SYMBOLS	559 SP				

END OF CATEGORY NO. 5

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
6001 634345	4	EACH OF STANDARD CONCRETE CURB OPENING	602				
6002 660650	4,270	LINEAR FEET OF TRAFFIC BARRIER W BEAM USING 8 FOOT POST	605				
6003 660672	1,076	LINEAR FEET OF TRAFFIC BARRIER W BEAM PANEL REPLACEMENT	605				
6004 661510	7	EACH OF TYPE C TRAFFIC BARRIER END TREATMENT	606				
6005 661540	8	EACH OF TYPE K TRAFFIC BARRIER END TREATMENT, ANY OPTION	606				
6006 661565	5	EACH OF REMOVE AND RESET TRAFFIC BARRIER END TREATMENT-ANY TYPE	XXX				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
6007 661570	4	EACH OF TRAFFIC BARRIER W BEAM POST 8 INCH WOOD OFFSET BLOCK	605				
6008 661577	6	EACH OF TRAFFIC BARRIER THRIE BEAM ANCHORAGE TO VERTICAL FACE - WOOD POST	605				
6009 662182	90	LINEAR FEET OF REMOVE AND RESET EXISTING TRAFFIC BARRIER W BEAM	605				
6010 662290	25	LINEAR FEET OF REMOVE AND REPLACE TRAFFIC BARRIER W BEAM	605				
6011 670200	400	EACH OF W BEAM BARRIER REFLECTIVE DELINEATORS	605				

END OF CATEGORY NO. 6

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
8001 800000	2	EACH OF 11 FOOT CLASS II PIEZO SENSOR W/100 FOOT LEAD-IN WIRE	XXX				
8002 800000	4	EACH OF 11 FOOT CLASS II PIEZO SENSOR W/200 FOOT LEAD-IN WIRE	XXX				
8003 800000	2	EACH OF 11 FOOT CLASS II PIEZO SENSOR W/300 FOOT LEAD-IN WIRE	XXX				
8004 805160	144	LINEAR FEET OF 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	805				
8005 861104	1,900	LINEAR FEET OF ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	810				
8006 862101	2,000	LINEAR FEET OF LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	810				

STATE CONTRACT - MO4505168
 FEDERAL CONTRACT - ES-495-2(276)N

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
8007 862102	800	LINEAR FEET OF SAW CUT FOR SIGNAL (LOOP DETECTOR)	815				

END OF CATEGORY NO. 8

SCHEDULE OF PRICES

ITEM NO. CCS NO.	APPROXIMATE QUANTITIES	DESCRIPTION OF ITEMS	SECTION	UNIT PRICE		AMOUNTS	
				DOLLARS	CENTS	DOLLARS	CENTS
		AGGREGATE AMOUNT AT UNIT PRICES ALTERNATE A IS USING BID 1001-1019, 2001, 3001-3015, 5001-5020, 6001-6011, 8001-8007					
		THIS PROPOSAL SHALL BE FILLED IN BY THE BIDDER WITH PRICES IN NUMERALS AND EXTENSIONS SHALL BE MADE BY HIM.					

GENERAL MATERIAL REQUIREMENTS

CONVICT PRODUCED MATERIALS

Section 1019 of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) clarifies that materials produced by convict labor after July 1, 1991 may not be used for Federal-aid highway construction projects unless produced at a prison facility producing convict made materials for Federal-aid construction projects prior to July 1, 1987.

CONTRACT PROVISION BUY AMERICA

The Contractor shall comply with Section 165 of the Surface Transportation Assistance Act of 1982 as amended by Section 1041(a) and 1048(a) of the Intermodal Surface Transportation Efficiency Act of 1991 with regard to the furnishing and coating of iron and steel products. A nationwide waiver for this provision has been granted for pig iron and processed, pelletized, and reduced iron ore.

All bidders shall submit a bid using Domestic Iron and Steel Products with coatings that have been applied inside the United States. If the bidder elects, an additional alternate bid may be submitted using Foreign Products on one or more of the above items in this Contract.

The Contract, if awarded, will be awarded to the responsible bidder who submits the lowest total bid for the Contract based on furnishing Domestic Products unless such bid exceeds the lowest total bid based on furnishing Foreign Products by more than twenty five percent (25%). Foreign Products will not be permitted to be used as a substitution for Domestic ones after the bid has been awarded.

When steel and iron products and/or coatings are used in a project, the Contractor is not prohibited from using a minimal amount of foreign steel and iron products and/or coatings, if the cost of such materials used does not exceed one-tenth of one percent (0.1 %) of the total contract cost or \$2,500, whichever is greater.



**ALTERNATE BID
USING FOREIGN PRODUCTS**

When a bidder elects to utilize Foreign Products on one or more items, the following summation indicating the Total Bid using Foreign Products must be completed in addition to the individual item bid tabulations.

The following instructions are given to the bidder in completing the Total Bid summation using Foreign Products:

- 1 - The "Bid Total" for the initial bid using Domestic Products shall be shown on line (1).
- 2 - The subtotal for Item Amounts using Domestic Products shall be shown on line (2), for those items which the Contractor elects to use Foreign Products.
- 3 - The subtotal for Item Amounts using Foreign Products shall be shown on line (3).
- 4 - The total Bid, utilizing Foreign Products shall be shown on line (4). The value is obtained by subtracting subtotal (2) from the Total Bid (1) and then adding subtotal (3).

Bid Total for Bid 1 using Domestic items	Line (1)_____
Total of Domestic Items	Line (2) - _____
Total of Foreign Items	Line (3) + _____
Bid Total using Foreign Items	Line (4)_____

ALTERNATE BID - USING FOREIGN PRODUCTS
 BIDDER'S INSTRUCTIONS

When the bidder elects to submit a bid for one or more items using Foreign Products, the following form must be used. For each item that Foreign Products are contemplated, the appropriate "Item Numbers", "Approximate Quantities", "Description of Items", "Unit Price or Lump Sum Price", "Item Amount Domestic" and "Item Amount Foreign" shall be tabulated below as specified in the initial bid. The bidder shall indicate the unit price in dollars and cents and show the total cost of the item for each item that utilizes Foreign Products. When all items utilizing Foreign Products have been listed, the bidder shall indicate on Page 4 of 20 the subtotals of the Item Amounts for Domestic Products in Line (2) and for Foreign Products in Line (3).

Item Nos.	Approximate Quantities	Description of Items	Unit Price or Lump Sum Dollars.Cts.	Items Amount Domestic Dollars.Cts.	Items Amount Foreign Dollars.Cts.

BID/PROPOSAL AFFIDAVIT

A. AUTHORIZED REPRESENTATIVE AND AFFIANT

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 business for which I am acting.

B. CERTIFICATION REGARDING COMMERCIAL NONDISCRIMINATION

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

In preparing its bid on this project, the bidder or offeror 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 vendors, 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 or offeror on this project, and terminate any contract awarded based on the bid. As part of its bid or proposal, the bidder or offeror 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 or offeror 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 or Offeror 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.



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 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, Section 14-308 of the State Finance and Procurement Article of the Annotated Code of Maryland;
- 5. Been convicted of a violation of the Section 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 subsection (1) through (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 Section B and subsections (1) through (7) 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, 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 §J(2)(b), above;

(h) Notify its employees in the statement required by §J(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;

(i) Notify the procurement officer within 10 days after receiving notice under §J(2)(h)(ii), above, or otherwise receiving actual notice of a conviction;

(j) Within 30 days after receiving notice under §J(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 §J(2)(a)—(j), above.

3. If the business is an individual, the individual shall certify and agree as set forth in §J(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 (IF NOT APPLICABLE, SO STATE):

Name: _____
 Address: _____

- 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)



COMPREHENSIVE SIGNATURE PAGE 1 OF 2

THE BIDDER IS HEREBY NOTIFIED THAT THIS DOCUMENT SHALL BE SIGNED IN INK IN ORDER FOR THE BID TO BE ACCEPTED. BY SIGNING, THE BIDDER CERTIFIES THAT HE/SHE WILL COMPLY IN EVERY ASPECT WITH THESE SPECIFICATIONS.

FURTHER, I DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THIS AFFIDAVIT (PARAGRAPHS A-N) ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

This bid form shall be filled out legibly in ink or typed. The bid, if submitted by an individual, shall be signed by an individual; if submitted by a partnership, shall be signed by such member or members of the partnership as have authority to bind the partnership; if submitted by a corporation the same shall be signed by the President and attested by the Secretary or an Assistant Secretary. If not signed by the President as aforesaid, there must be attached a copy of that portion of the By-Laws, or a copy of a Board resolution, duly certified by the Secretary, showing the authority of the person so signing on behalf of the corporation. In lieu thereof, the corporation may file such evidence with the Administration, duly certified by the Secretary, together with a list of the names of those officers having authority to execute documents on behalf of the corporation, duly certified by the Secretary, which listing shall remain in full force and effect until such time as the Administration is advised in writing to the contrary. In any case where a bid is signed by an Attorney in Fact the same must be accompanied by a copy of the appointing document, duly certified.

IF AN INDIVIDUAL:

NAME: _____

_____ Street and/or P.O. Box

_____ City State Zip Code Fed ID or SSN

_____ (SEAL) Signature Date

_____ Print Signature

WITNESS: _____

Signature

_____ Print Signature

COMPREHENSIVE SIGNATURE PAGE 2 OF 2

IF A PARTNERSHIP:

NAME OF PARTNERSHIP: _____

Street and/or P.O. Box

City State Zip Code Fed ID or SSN

BY: _____ (SEAL) _____
Member Signature Date

Print Signature

TITLE: _____ WITNESS: _____
Signature

Print Signature

IF A CORPORATION:

NAME OF CORPORATION: _____

Street and/or P.O. Box

City State Zip Code Fed ID or SSN

STATE OF INCORPORATION: _____

BY: _____ (SEAL) _____
Signature Date

Print Signature

TITLE: _____ WITNESS: _____
Secretary's Signature

Print Signature

**MDOT DBE FORM A - (MDOT-OP 016-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
CERTIFIED DBE 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 proposal submitted in response to Solicitation No. MO4505168, I affirm the following:

1. DBE Participation (PLEASE CHECK ONLY ONE)

I have met the overall certified Disadvantaged Business Enterprise (DBE) participation goal of sixteen percent (**16%**). I agree that the DBE firms listed in the DBE Participation Schedule - Part 2 of the MDOT DBE Form B (Federally-Funded Contracts – Bids Only) will be used to accomplish the DBE participation goal for this Contract for at least the dollar amounts set forth therein.

OR

I conclude that I am unable to achieve the DBE participation goal. I hereby request a waiver of the overall goal. 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 DBE firms listed in the DBE Participation Schedule - Part 2 of the MDOT DBE Form B (Federally-Funded Contracts – Bids Only) will be used to accomplish the DBE participation goal for this Contract for at least the dollar amounts set forth therein.

2. Additional DBE 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 DBE Form C - Federally-Funded Contracts – Bids Only);
- (b) Subcontractor Project Participation Statement (MDOT DBE Form D - Federally-Funded Contracts – Bids Only);
- (c) DBE 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 DBE participation goal.

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 DBE FORM A - (MDOT-OP 016-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
CERTIFIED DBE UTILIZATION AND FAIR SOLICITATION AFFIDAVIT
Page 2 of 2

3. Information Provided to DBE firms

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

SUBMIT THIS AFFIDAVIT WITH BID/PROPOSAL

**MDOT DBE FORM B - (MDOT-OP 017-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
DBE PARTICIPATION SCHEDULE**

PART 1 – INSTRUCTIONS FOR DBE PARTICIPATION SCHEDULE

Page 1 of 3

PARTS 2 AND 3 MUST BE INCLUDED WITH THE PROPOSAL. THE FAILURE OF AN OFFEROR TO PROPERLY COMPLETE AND SUBMIT THIS FORM 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) DBE 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 DBE participation goal.
2. In order to be counted for purposes of achieving the DBE participation goal, the firm must be certified for that specific NAICS (“DBE” for Federally-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 DBE participation goal. Graduated status is clearly identified in the MDOT Directory (such graduated codes are designated with the letter “G” after the appropriate NAICS Code).
3. Examining the NAICS Code is the **first step** in determining whether a DBE firm is certified and eligible to receive DBE 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 DBE Directory includes the products to be supplied and/or services to be performed that are used to achieve the DBE participation goal.
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 a DBE 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 DBE Participation Schedule.



MDOT DBE FORM B - (MDOT-OP 017-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
PART 1 – INSTRUCTIONS FOR DBE PARTICIPATION SCHEDULE
Page 2 of 3

6. For each DBE 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 DBE participation goal:**
 - 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 DBE 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 DBE participation credit will be given for the supply of these products.
 - C. For purposes of achieving the DBE participation goal, you may count only the amount of any reasonable fee that the DBE 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 5 of the DBE Participation Schedule, please state the amount of any reasonable fee that the DBE firm will receive for the provision of such products/services in Section 5.3.
 - 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 DBE participation goal, you may count the total amount of the subcontract. In Column 5 of the DBE Participation Schedule, please state the total amount of the subcontract in Section 5.1.
 - E. Is the firm certified as a supplier, wholesaler and/or regular dealer? If the answer is YES (i) if the DBE firm is furnishing and installing the materials and is certified to perform these services, please include in Section 5.1 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 DBE participation goal, you may only count sixty percent (60%) of the value of the subcontract for these supplies/products (60% Rule). In Column 5, Section 5.2 of the DBE Participation Schedule, please state amount of the subcontract for these supplies/products only (not installation) and sixty percent (60%) of such value.
7. Cumulative credit given for the use of all DBE suppliers/wholesalers/regular dealers/brokers/manufacturer in the DBE Participation Schedule cannot exceed sixty percent (60%) of the entire DBE participation goal. For example, if your bid is \$100,000 and you have indicated that you will achieve \$25,000 in DBE Participation, the cumulative participation by DBE firms that are suppliers, manufacturers, wholesalers, brokers and regular dealers cannot exceed \$15,000 (or 60% of \$25,000).



MDOT DBE FORM B - (MDOT-OP 017-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
PART 2 – DBE PARTICIPATION SCHEDULE

PARTS 2 AND 3 MUST BE INCLUDED WITH THE PROPOSAL AS DIRECTED IN THE SOLICITATION. THE FAILURE OF AN OFFEROR TO PROPERLY COMPLETE AND SUBMIT PARTS 2 AND 3 OF THE DBE 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 DBE Participation Goal.

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5 Unless the offeror requested a waiver in MDOT DBE Form A – Federally Funded Contracts (Proposals Only) for this solicitation, the cumulative DBE participation for all DBE firms listed herein must equal at least the DBE participation goal set forth in Form A.
Name of DBE Subcontractor and tier	Certification No. and DBE Classification	Total Subcontractor amounts as a percentage of the Contract (As provided in Price/Financial Proposal or any Best and Final Offer)	NAICS Codes/s NAICS Code/s of the specific products to be supplied or services to be performed by the DBE firm	Percentage Amount(s) for purposes of achieving the DBE Participation Goal. State the percentage amount of the products/services in Line 5.1 except for those services or products where the DBE firm is being used as a wholesaler, supplier, regular dealer, or broker. For those items of work where the DBE firm is being used as a supplier, wholesaler and/or regular dealer complete Line 5.2 using the 60% Rule. For those items of work where the DBE firm is being used as a broker, complete Line 5.3.
<input type="checkbox"/> Please check if DBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: <hr/> <input type="checkbox"/> Women-Owned <input type="checkbox"/> African American-Owned <input type="checkbox"/> Other DBE Classification	%		<u>5.1 Percentage Amount of Subcontractor for Products/Services (Excluding Products/Services from Suppliers, Wholesalers, Regular Dealers and Brokers)</u> % <u>5.2 Percentage Amount for Items of Work where the DBE firm is being used as Suppliers, Wholesalers and/or Regular Dealers)</u> (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 DBE Participation Goal). <u>5.3 Percentage amount of Fee where DBE firm is being used as Broker</u> (Please refer to Section 6(C) in Part 1 - instructions). %

Please check if Continuation Sheets are attached.



MDOT DBE FORM B - (MDOT-OP 017-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
CONTINUATION SHEET
Page __ of __

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5 Unless the offeror requested a waiver in MDOT DBE Form A – State Funded Contracts (Proposals Only) for this solicitation, the cumulative DBE participation for all DBE firms listed herein must equal at least the DBE participation goal set forth in Form A.
Name of DBE Subcontractor and tier	Certification No. and DBE Classification	Total Subcontractor amounts as a percentage of the Contract (As provided in Price/Financial Proposal or any Best and Final Offer)	NAICS Codes/s NAICS Code/s of the specific products to be supplied or services to be performed by the DBE firm	Percentage Amount(s) for purposes of achieving the DBE Participation Goal and Subgoals. State the percentage amount of the products/services in Line 5.1 except for those services or products where the DBE firm is being used as a wholesaler, supplier, regular dealer, or broker. For those items of work where the DBE firm is being used as a supplier, wholesaler and/or regular dealer complete Line 5.2 using the 60% Rule. For those items of work where the DBE firm is being used as a broker, complete Line 5.3.
<input type="checkbox"/> Please check if DBE firm is a third-tier contractor (if applicable). Please submit written documents in accordance with Section 5 of Part 1 - Instructions	Certification Number: <hr/> <input type="checkbox"/> Women-Owned <input type="checkbox"/> African American-Owned <input type="checkbox"/> Other DBE Classification	%		5.1 Percentage Amount of Subcontractor for Products/Services (Excluding Products/Services from Suppliers, Wholesalers, Regular Dealers and Brokers) % 5.2 Percentage Amount for Items of Work where the DBE firm is being used as Suppliers, Wholesalers and/or Regular Dealers) (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 DBE Participation Goal). 5.3 Percentage amount of Fee where DBE firm is being used as a Broker (Please refer to Section 6(C) in Part 1 - instructions). ___%



MDOT DBE FORM B - (MDOT-OP 017-2)
FEDERALLY-FUNDED CONTRACTS (BIDS ONLY)
PART 3 – CERTIFICATION FOR DBE PARTICIPATION SCHEDULE

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

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 DBE Directory for each of the DBE firms listed in Part 2 of this DBE Form B for purposes of achieving the DBE participation goal that was identified in the DBE Form A that I submitted with this solicitation, and that the DBE 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 DBE Form B.

I solemnly affirm under the penalties of perjury that the contents of Parts 2 and 3 of MDOT DBE 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



INFORMATION REQUIRED TO BE SUBMITTED FOR FEDERALLY ASSISTED CONTRACTS:

(a) Each bidder shall provide the following information:

NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ >\$10,000,000

(b) Each bidder shall provide the following information for each firm quoting or considered as subcontractors:

NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ > \$10,000,000

NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ > \$10,000,000



NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ > \$10,000,000

NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ > \$10,000,000

NAME OF FIRM: _____

Street and/or P.O. Box

City State Zip Code

____ DBE ____ Non-DBE Age of the firm ____ years
Annual gross receipts per last calendar year ____ <\$500,000 ____ \$500,000-1,000,000
____ \$1,000,000-3,000,000 ____ \$3,000,000-5,000,000 ____ \$5,000,000-10,000,000
____ > \$10,000,000

Submit additional copies of this page as page 26A of 28, 26B of 28, etc. as necessary, and place them as the last pages in the Invitation for Bids. Place an "X" for "NO" on the last copy. Any additional Copies: _____ NO _____ YES



EXTRA WORK, CONTRACT TIME, BONDING, LIQUIDATED DAMAGES, AND PROPOSAL GUARANTY

EXTRA WORK. It is further proposed to do all "Extra Work" which may be required to complete the work contemplated at unit prices or lump sum prices to be agreed upon in writing prior to starting such extra work, or if such prices or sums cannot be agreed upon, to perform such work on a Force Account basis as specified in TC-7.03.

CONTRACT TIME. To commence work as specified in the "Notice to Proceed" and to prosecute the work to complete the contract within/or before

N/A (working days)

June 30, 2010 (calendar date)

Any delay in awarding or the execution of this contract will not be considered as a basis for any monetary claim, however, an extension of time may be considered by the Administration, if warranted.

BONDING. When the Contractor's bid is \$100,000 or more, the Contractor shall furnish a Payment Bond and a Performance Bond in the full amount of the Contract Award as security for the construction and completion of the contract in conformance with the Plans, Standard Specifications, revisions thereto, General Provisions and Special Provisions.

To guarantee all of the work performed under this contract to be done in conformance with the Standard Specifications, revisions thereto, General Provisions and Special Provisions in a good workmanlike manner and to renew or repair any work which may be rejected due to defective materials or workmanship, prior to final completion and acceptance of the work, also we have the equipment, labor, supervision and financial capacity to perform this contract either with our organization or with Subcontractors.



LIQUIDATED DAMAGES. The Contractor is hereby advised that liquidated damages in the amount of

N/A dollars (N/A) per working day

ONE THOUSAND FIVE HUNDRED THIRTY FIVE dollars (1,535.00) per calendar day

will be assessed for unauthorized extensions beyond the contracted time of completion.

PROPOSAL GUARANTY. A bid security is not required on Contract Proposals under \$100,000.

A bid security totaling at least five percent (5%) of the bid amount will be required on contracts of \$100,000 or over.

Acceptable forms of security for bid guaranty shall be:

- (1) A bond in a form satisfactory to the State underwritten by a company licensed to issue bonds in this State;
- (2) A bank certified check, bank cashier's check, bank treasurer's check, or cash;
- (3) Pledge of security backed by the full faith and full credit of the United States government or bonds issued by the State of Maryland.

Enclosed herewith, find bid security based on at least five percent (5%) of the aggregate amount of the bid submitted, and made payable to the "State of Maryland". This bid security is a Proposal Guarantee (which is understood will be forfeited in the event the contract is not executed, if awarded to the signer of this affidavit).



MARYLAND STATE HIGHWAY ADMINISTRATION

SUBCONTRACTING

Subcontracting by the Prime Contractor. Form OOC 42 Request for Approval of Subcontractor shall be used by the Prime Contractor to request approval of a Subcontractor and also to ensure that a formal Subcontract has been or will be written and kept on file by the Prime Contractor. Completion and submittal of the form by the Prime Contractor acknowledges that the Administration's Contracting Officer may require the submission of the written Subcontract for review by the Administration and/or FHWA.

Lower Tier Subcontracting by an Approved Subcontractor. Form OOC 43 Subcontractor's Request for Approval of Lower Tier Subcontractor shall be used by an Approved Subcontractor to request approval of a Lower Tier Subcontractor and also to ensure that a formal Subcontract has been or will be written and kept on file by the Subcontractor. Completion and submittal of the form by the Subcontractor acknowledges that the Administration's Contracting Officer may require the submission of the written Subcontract for review by the Administration and/or FHWA.

Form Acquisitions. Maryland State Highway Administration Form OOC 42 and Form OOC 43 may be acquired through the Administration's Contracts Award Team or District Office. All questions should be directed to the Office of Construction, Contracts Award Team.

It is the Administration's intention to randomly select during each calendar quarter a representative sample of written Subcontracts for review. This review will be conducted by the Office of Construction's Contracts Award Team.