

April 26, 2017

**To:** ALL CONSULTANTS  
**Subject:** REQUEST FOR EXPRESSIONS OF INTEREST  
Multi-Project Solicitation

**ORDER FOR PROFESSIONAL SERVICES NO. A3581**  
**2017 New Jersey Turnpike Authority Bridge Inspection Program**  
**Retaining Wall and Noise Barrier Inspection - North**

**And**

**ORDER FOR PROFESSIONAL SERVICES NO. A3652**  
**2017 New Jersey Turnpike Authority Bridge Inspection Program**  
**Retaining Wall and Noise Barrier Inspection - South**

The New Jersey Turnpike Authority (Authority) invites Expressions of Interest (EOIs) for two (2) Simple projects from engineering firms prequalified and eligible in the following Profile Codes:

Profile Code(s)	Description(s)
D280R	Bridges – NBIS Program, Routine

Attached (see Section I) is a list of all consultants currently prequalified and eligible to submit an EOI for the above referenced assignment. \*Joint Ventures (\*Firms interested in submitting an EOI as a Joint Venture must be prequalified as a Joint Venture with the Authority) that meet all of the Profile Code requirements are also eligible to submit an EOI.

To qualify as a prequalified consultant, a firm **must** have on file with the Authority a current "Professional Service Prequalification Questionnaire" (PSPQ) package prior to submission of the EOI. A current PSPQ is one that has been on file with the Authority for no more than 24 months, or in certain cases for no more than 12 months. Only those firms who have been prequalified for the specified profile code(s) this project entails will be considered. Prequalification is not required for subconsultants. Prequalification is required however for Joint Ventures.

The Authority shall be seeking participation of Small Business Enterprises (SBE) as subconsultants. The project goal is 25% SBE participation to New Jersey Businesses (see Section VII) of the Attachment to the Expression of Interest for the program provisions).

This multi-project solicitation is for professional services required to inspect and provide individual inspection reports for 218 retaining walls and 85 noise barriers located in the northern portion of the New Jersey Turnpike and Garden State Parkway between Turnpike Mileposts 80.10 and 121.95, including the Easterly and Westerly Alignments and the Newark Bay - Hudson County Extension (NB-HCE), and the Parkway between Mileposts 140.53 to 159.64, otherwise known as OPS No. A3581; and 222 retaining walls and 32 noise barriers located in the southern portion of the New Jersey Turnpike and Garden State Parkway between Turnpike Mileposts 38.76 to 79.98 and the Parkway between Mileposts 0.51 and 134.52, otherwise known as OPS No. A3652.

It is the Authority's intent to engage the services of two firms through this multi-project solicitation for EOIs. Professional Services are required from two eligible firms, one for Order for Professional Services No. A3581 and one for Order for Professional Services No. A3652. The Consultant shall convey their understanding of both OPS's, the Authority's needs, and shall express their approach to both projects.

### **Project Description**

The projects involve inspection of a combined 440 Retaining Walls and 117 Noise Barriers located along the New Jersey Turnpike between Mileposts 38.76 and 121.95 including the NB-HCE, and the Garden State Parkway between Mileposts 0.51 and 159.64. The services shall encompass close visual inspections of the retaining walls and noise barriers supplemented with a hands-on inspection for conditions that may affect the safety of the travelling public and/or the integrity of the retaining wall or noise barrier. The services will involve field verification and input of new inventory data or verification of existing inventory data as well as preparation inspection reports (one report per structure). The inspections shall encompass all primary structural elements, secondary elements, and appurtenances comprising the retaining walls and noise barriers, including but not limited to wall facing, foundations, anchors, vertical supports, joints, railings, barriers and drainage elements. All inspection reports will be prepared utilizing Bentley's (InspectTech) proprietary software.

This OPS' requires the preparation of draft and final inspection reports. It should be noted that the Authority is currently updating the format and process for Inspection Reports. In this assignment, the consultant will be required to input the retaining walls and noise barriers inspection results and recommendations directly into the InspectTech system. After data and information is recorded, individual Retaining Wall / Noise Barrier Inspection Reports will be generated from InspectTech. See Sections XVI to XIX for the lists of retaining walls and noise barriers to be inspected.

Project background materials (previously collected inventory information where available and sample report format) will be available for review electronically through the Authority's Secure File Sharing site. Access to the secure work space site will be provided to all prequalified and eligible Consultants via e-mail as part of the RFEOI notification process. If there are any questions or issues related to the Secure File Sharing site, please contact King F. Lee, P.E. via e-mail at [klee@turnpike.state.nj.us](mailto:klee@turnpike.state.nj.us). The subject line should read "OPS Nos. A3581 and A3652, Secure File Sharing Site Information."

### **Staff Qualification**

Key project personnel shall possess relevant training and experience demonstrating 1) successful completion of effective scheduling for large groups of structures and report submittals; 2) familiarity with the Bentley InspectTech software for inspection data input and updating capabilities; 3) Key personnel designated for the structural inspections shall possess relevant training and experience demonstrating successful completion of structural inspections and report submittals; and 4) Staff should include structural and geotechnical engineers familiar with design and recommendations for repair. Project Managers and Team Leaders must meet the requirement outlined on the Authority's website at <http://www.state.nj.us/turnpike/professional-services.html> under the heading NJTA Bridge Inspection Program". These factors will be critical elements in the selection process.

### **EOI Submission Requirements**

To be considered for these services, qualified firms or prequalified Joint Ventures need to submit five (5) copies of their EOI, which must contain the following:

1. **Letter of Interest** not exceeding seven (7) single-sided, letter-sized pages with minimum 1-inch borders, minimum font (Arial) size of 10 pt., and 1.0 spacing, stating the firm's interest, ability and its commitment to complete the requested professional services listed in this solicitation and in their EOI. Indicate clearly in the first paragraph which OPS the firm prefers to be assigned and submit only one EOI for both OPS'.

The Letter of Interest shall summarize the following information.

**a. Experience of the Firm on Similar Projects**

Provide information on the firm and its sub-consultants experience on similar projects.

The Firm shall provide information on past projects which they have performed that demonstrate similar service of those required for this assignment. Each project listed shall include a brief description of the project scope actually performed by the firm and its relevance to the proposed assignment. It shall identify the Firm's office(s) the work was performed from, the date (time frame) the services were performed, magnitude and cost of the project, and contact/reference information for each project listed.

**b. Experience of the Project Manager on Similar Projects**

The Firm shall identify the Project Manager that will be assigned to the project and identify the individual's education, credentials and work experience. The Firm should discuss the proposed Project Manager's experience and its application to the assignment. The Firm shall review the criteria set forth by the Authority in the RFEIOI in consideration of the person proposed for the assignment. If the Firm is proposing an individual with credentials considerably different than those identified by the Authority, the Firm must explain its rationale and identify/demonstrate the benefit the individual brings to the assignment.

The resume of the Project Manager proposed, included in the EOI, shall be clear, dated and detailed to the related assignment experience. References shall be furnished for each project listed (include date when work performed and relevance to subject assignment and at least one contact name and phone number for each project). Unless otherwise noted, the Project Manager shall be a licensed Professional Engineer.

**c. Team Leaders and Key Personnel's Qualifications and Relevant Experience**

The Firm shall identify the Project Engineer and/or other key personnel that will be assigned to the project and their role and responsibilities specific to the assignment. Information concerning their education, credentials and work experience should be provided along with contact/reference information. The Firm shall discuss the individuals proposed for the assignment and identify how their education, credentials and work experience are applicable to their role on the assignment.

The resumes of key personnel proposed, included in the EOI, shall be clear, dated and detailed to the related assignment experience. References shall be furnished for each project listed (include at least one contact name and phone number for each project).

**d. Understanding of the Project and the Authority's Needs, and Reasonableness of Staffing Estimate(Design/Bridge Inspection)**

Provide an explanation of the firm's understanding of the project and Authority's needs required for the successful completion of the assignment. Provide a summary of the firm's and its staff's qualifications, and state how they relate to the firm's ability to provide the requested services. Through attached organizational chart and resumes identify the person(s), or subconsultant(s), responsible for each division of the assignment and their relevant experience.

### Understanding of the Project

The Firm shall provide information to demonstrate that they fully understand the overall objective of the project and why the Authority is undertaking the assignment. This may include discussions providing background information on the need for the project, its affect on the Authority's facilities, and impact on the overall transportation network. Firms should demonstrate specific first-hand knowledge of the location affected by the project and the long term effects the project has on the Authority, its patrons, or other relevant issues.

### Understanding of the Authority's Needs

The Firm shall demonstrate that they fully understand the needs of the Authority as it relates to the specific scope-of-work identified in the RFEOI. The Firm must confirm the deliverables and the schedule for design and construction associated with project specific deliverables. The Firm should also discuss project management items, including deliverables such as submittal of wage rate approvals and invoicing.

### Reasonableness of Staffing Estimate

The Firm shall demonstrate through an attached estimate of work-hours the extent of work effort required to perform each primary task for the assignment as identified on the assignment staffing schedule issued with the RFEOI.

#### **e. Approach to the Project**

The Firm shall identify the major tasks comprising the project and describe in detail how they will be accomplished. Provide an explanation of the process the firm will use to schedule, manage and perform the required tasks within the scope of services and identify the key milestones and projects critical path. The Firm shall identify key issues and potential problems and discuss alternatives and options which would lead to resolution. The Firm should discuss innovative concepts with cost benefits and/or accelerated project delivery, where applicable. The Subconsultant roles, value to the team/project, and reporting relationship shall be clearly identified.

#### **f. Commitment and Ability to Perform the Project and Outstanding Work with the Authority**

An affirmation of the firm's commitment and ability to complete the proposed work as well as any outstanding work the firm currently has with the Authority. The Firm shall provide an explanation of the anticipated project schedule and demonstrate that the Firm can commit the required staff resources and management to perform the assignment. A listing of the firm's facilities, including the address of the office where the project will be performed, and how they relate to the firm's ability to provide the requested services shall be provided.

### Commitment and Ability to Perform the Project

The Firm shall discuss their commitment and availability of required staff for the assignment as shown on the completed "Commitments of Proposed Project Staff" and "Certification of Staff Availability" forms.

### Outstanding Work with the Authority

The Firm shall discuss their outstanding work with the Authority as shown on the completed Disclosure Forms for the prime and all subconsultants. Information should be provided to demonstrate how this project may be impacted or affected by the existing work load of the consultant or its subconsultants. Outstanding Work shall be considered the sum of the Outstanding Work of the prime and subconsultants. No factors/weighting will be applied based on the percent of work assigned to the prime or subconsultants.

#### **g. Commitment to Quality Management**

An affirmation of the Firm's Commitment to Quality Management and Quality Assurance/Quality Control (QA/QC). The Firm shall provide a written narrative that describes the firm's quality assurance policy and how it intends to implement a quality assurance program specifically for this assignment. The Firm shall

identify credentialed QA/QC staff and the roles and working relationship with other staff members as part of the design process or construction phase.

**h. Attainment of Small Business Enterprise (SBE) Participation Goals**

The Authority has adopted a Small Business Enterprise Sub-Consultant's Program (the SBE Program). Under the SBE Program, firms interested in submitting an EOI/TP agree to make a good faith effort to award at least twenty-five (25) percent of the assignment to those businesses that meet the requirements and have been registered by the Division of Minority and Women Business Development/Department of the Treasury as a Small Business Enterprise.

Firms shall demonstrate how they will utilize SBE firms in order to achieve the 25% goal and add value to the project team.

2. An **organizational chart** showing key project team members for all primary tasks, including subconsultants. Provide all team members' names, titles and reporting relationships.
3. **Resumes for the Project Manager and each Key Project team member**, (a maximum total of five) detailing relevant experience and professional/technical qualifications. Include resumes of proposed subconsultants. Each resume should be one page single-sided with dates provided for each project.
4. A **detailed estimate of the work-hours** per task and by ASCE Grade/ Classification, along with an estimate of total hours, to provide the work described herein. The ASCE Grade/ Classification must include a Quality Assurance Officer. Provide one estimate sheet for each OPS.
5. A **Project Schedule** for this solicitation that addresses the various tasks defined by the scope of services for this assignment. The Project Schedule may be a maximum of one page for each OPS.
6. **Recent Authority Project Experience Form** identifying all Authority projects on which the consultant is currently working or have been completed (closed out) within the previous five (5) year period. A separate form shall be provided for the prime consultant and for each sub-consultant.
7. A completed **Affidavit of Eligibility/Disclosure of Material Litigation** (which is available on the Authority's website) form for review by the Authority's legal counsel. Forms for each firm, each member of a joint venture and all sub-consultants shall be submitted. Firm shall certify that it is not suspended, disbarred or disqualified from bidding on any state or federal projects. Furthermore, no litigation shall be pending or brought against the firm that could materially affect its ability to perform the OPS described herein. Firm shall submit a description of all litigation pending, threatened or brought against it, including any litigation against its owners and/or principals; and shall also submit a description of any enforcement actions or penalties pending or assessed by any regulatory agency having jurisdiction over permit compliance, worker health and safety, or labor laws, as these issues relate to performance of the OPS described herein.
8. A completed **Disclosure Form – Outstanding Work with the Authority** (which is available on the Authority's website) stating all outstanding work with the Authority for both New Jersey Turnpike and Garden State Parkway projects. Forms for each firm, each member of a joint venture and all sub-consultants shall be submitted. State "none" on the form if firm, joint venture or sub-consultant has no outstanding work with the Authority. **It is specifically noted that the Authority's Disclosure Form shall be submitted with the EOI. Consultants may separate types of work by category (i.e.: Design Services, Construction Services, Environmental Services, etc.) however, the "Total" amounts stated at the bottom of the page shall be the combined total amounts of all outstanding work with the Authority as identified on the form.**
9. A completed **Commitments of Proposed Project Staff** (which is available on the Authority's website) form stating the percentage of time each member has available to commit to this assignment, including subconsultant staff.

10. A completed **Certification of Staff Availability form** (which is available on the Authority's website) firm shall certify that the staff proposed in the EOI shall be used in the performance of the project. When proposing the same staffing in multiple EOIs, disclose one of the following:
- A. A statement that all projects utilizing same staff will be completed on time and how this will be done, or
  - B. A statement that the firm voluntarily withdraws one of the EOIs from further consideration if the Authority is giving serious consideration to more than one EOI.

This form shall be submitted by the prime consultant and each subconsultant.

11. A completed **SBE Form – Proposed Schedule of Small Business Enterprise Participation** (which is available on the Authority's website) form. Stating the firm's intention to use SBE Certified firms as sub-consultants.
12. A completed **Disclosure of Investment Activities in Iran** form which is available on the Authority's website.
13. A completed **Vendor Source Disclosure Form** which is available on the Authority's website.
14. A completed **Ownership Disclosure Form**, pursuant to N.J.S.A. 52:25-24.2 which is available on the Authority's website.

EOIs that are incomplete may not be considered.

The NJTA has promulgated a Code of Ethical Standards pursuant to the laws of the State of New Jersey, a copy of which is available at: [http://www.state.nj.us/turnpike/documents/code\\_of\\_ethics.pdf](http://www.state.nj.us/turnpike/documents/code_of_ethics.pdf). By submitting an EOI, your firm will be subject to the intent and purpose of said Code and to the requirements of the Division on Ethical Standards of the State of New Jersey.

EOIs are limited to a total of twelve (12) pages (single-sided), excluding a brief transmittal letter, Organization Chart, Estimate of Man/Work hours and the Project Schedule, the Affidavit of Eligibility/Disclosure of Material Litigation form, the Disclosure Form - Outstanding Work with the Authority, Recent Authority Project Experience form, Commitments of Proposed Project Staff form, Certification of Staff Availability form, SBE form, Disclosure of Investment Activities in Iran form, Vendor Source Disclosure form, Ownership Disclosure Form. Pages in excess of these requirements will not be considered. The information shall be presented in an organized fashion and shall be categorized in accordance with the preceding submission requirements. Foldout sheets will not be permitted.

Anything in excess of the page limitations for each of the EOI criteria above will not be read or considered. If the EOI submitted is not in accordance with the specific provisions defined above, it shall be considered incomplete and may be rejected.

Expressions of Interest must be submitted no later than **2:00 PM on Wednesday, May 17, 2017**. Consultants will be fully responsible for the delivery of their EOIs. Reliance upon U.S. Mail or other carriers is at the Consultant's risk. Late EOIs will not be considered. EOIs hand delivered or delivered by an overnight delivery service shall be addressed to:

New Jersey Turnpike Authority  
1 Turnpike Plaza  
Woodbridge, NJ 07095  
Attn: Engineering Department, Structures Design Section  
King F. Lee, P.E., Project Engineer

Expressions of Interest transmitted via U.S. Mail should be addressed to:

New Jersey Turnpike Authority  
 PO Box 5042  
 Woodbridge, NJ 07095-5042  
 Attn: Engineering Department, Structures Design Section  
 King F. Lee, P.E., Project Engineer

**Inquiries**

Inquiries pertaining to this RFEOI are to be directed in writing to King F. Lee, P.E., Project Engineer New Jersey Turnpike Authority, P.O. Box 5042, Woodbridge, New Jersey 07095-5042. E-mail inquiries to klee@turnpike.state.nj.us are acceptable. Inquiries by FAX are also acceptable. The Fax number is (732) 750-5393. **The deadline for inquiries is May 2, 2017.** The Authority will respond to all written inquiries received. Each inquiry will be stated and a written response provided. Responses will be posted on the Authority's Internet website at <http://www.state.nj.us/turnpike/expressions-of-interests.html> under "Professional Services" on or before May 5, 2017. Consultants will be responsible for submitting their EOIs in accordance with the RFEOI and any modifications, revisions and/or clarifications thereto as a result of the posted responses. Late inquiries may not be reviewed or considered.

**Consultant Selection**

A consultant selection will be made from the EOIs that are received on time and are deemed complete. A Review Committee will evaluate the technical qualifications and experience of each firm and its project team, and will rank the firms. The evaluation and ranking of the EOIs will serve as a method by which to create a short list of firms most highly qualified to perform the project, who will receive requests for fee proposals. OPS Nos. A3581 and A3652 will be awarded to two (2) of the top technically ranked firms with assignment preference going to the highest technically ranked firm.

The EOIs will be evaluated and ranked on the basis of numerical scores resulting from pre-established weighted factors. For this project, the rating factors and their relative weights are:

RATING FACTORS	WEIGHT (%)	POINTS
Experience of the Firm on Similar Projects	15	45
Experience of the Project Manager on Similar Projects	10	30
Key Personnel's Qualifications and Relevant Experience	15	45
Understanding the Project and the Authority's Needs, and Reasonableness of Staffing Estimate	15	45
Approach to the Project	15	45
Commitment and Ability to Perform the Project and Outstanding Work with the Authority*	10	30
Commitment to Quality Management	15	45
Attainment of SBE Participation Goals	5	15
	100%	300

Following the review of the submitted EOIs, the Authority will request Fee Proposals from firms it deems the most qualified and will commence negotiations with such technically qualified firms in the order ranked. All respondents will be notified at the completion of the review process regarding their status.

All submittals required pursuant to P.L. 2005, Chapters 51 and 271 Executive Order 117 (2008) will be requested from the intended Awardee(s) only. This will include the combined CH. 51/Executive Order 117 Two-Year Certification and Disclosure of Political Contributions form (CH 51.1 R1/21/2009), the P.L. 2005 c. 271 Vendor Certification and Political Contribution Disclosure Form (Rev: 02/07/2006 DPP c271 C&D) completed by each business entity all of which will be transmitted to the intended Awardee(s) by the Authority via mail or fax and are to be returned to the Authority within five (5) business days.

### **Order for Professional Services**

Final OPS Documents shall consist of the Authority's Order for Professional Services (which is available on the Authority's website) and the selected firm's submitted EOI and Final Negotiated Fee Proposal.

**Effective April 29, 2014 Consultants shall be required, at their own expense, to provide ALL insurance coverages as more fully set forth in the applicable OPS Agreement. (See OPS Agreement #4)**

### **Traffic Permit**

Consultants are advised that the consultant must obtain (and have in its possession) a Traffic Permit, issued by the Authority's Operations Department, before the consultant will be allowed to enter the Authority's right-of-way to perform any professional services hereunder. The Traffic Permit Application may be downloaded from the Authority's internet website at <http://www.state.nj.us/turnpike/> and requires the consultant's signature agreeing to the Traffic Permit Indemnification and Waiver of Claims.

The OPS will not be entered into by the Authority unless the firm first provides proof of valid business registration in compliance with P.L. 2001, c.134 (N.J.S.A. 52:32-44). Pursuant to this law the firm is further notified that no subcontract shall be entered into by any firm under any OPS with the Authority unless the subconsultant first provides proof of valid business registration.

Very truly yours,

**ORIGINAL SIGNED BY**

Robert J. Fischer, P.E.  
Chief Engineer

RJF:KFL:ms

Attachments

c: K. F. Lee  
Review Committee  
File



**ATTACHMENTS**

to the

**Request for Expressions of Interest**

**Dated April 26, 2017**

for

**Order for Professional Services No. A3581**

**2017 New Jersey Turnpike Authority Bridge Inspection Program  
Retaining Wall and Noise Barrier Inspection - North**

**And**

**Order for Professional Services No. A3652**

**2017 New Jersey Turnpike Authority Bridge Inspection Program  
Retaining Wall and Noise Barrier Inspection - South**

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**SECTION I**  
**Prequalified and Eligible Consultants**

Advantage Engineering Associates, P.C.  
AECOM Technical Services  
Ammann & Whitney Consulting Engineers, P.C.  
Arora and Associates, P.C.  
Atkins North America, Inc.  
Boswell Engineering  
CDM Smith Inc.  
CHA Consulting, Inc.  
Cherry, Weber & Associates, P.C.  
Churchill Consulting Engineers, PC  
CME Associates  
Dewberry Engineers Inc.  
Gannett Fleming, Inc.  
Greenman-Pedersen, Inc.  
HAKS Engineers, Architects and Land Surveyors, PC  
Hardesty & Hanover, LLC  
IH Engineers, P.C.  
Johnson, Mirmiran & Thompson, Inc.  
Kleinfelder East, Inc.  
KS Engineers, P.C.  
LS Engineering Associates Corporation  
McCormick Taylor, Inc.  
Michael Baker International, Inc.  
Modjeski & Masters, Inc.  
Mott MacDonald LLC  
NAIK Consulting Group, P.C.  
Parsons Brinckerhoff, Inc.  
Pennoni Associates, Inc.  
Pickering, Corts & Summerson, Inc.  
PK Engineering, P.C.  
PKB Engineering Corporation  
Remington & Vernick Engineers  
S&R Engineers, P.C.  
SJH Engineering, P.C.  
Stantec Consulting Services, Inc.  
STV Incorporated  
T&M Associates  
The Louis Berger Group, Inc.  
Traffic Planning and Design, Inc.  
TranSystems Corporation  
W.J. Castle P.E. and Associates P.C.  
WSP USA Corp

## **SECTION II**

### **Administrative and Agreement Information**

#### **Professional Corporation**

Incorporated firms that have not filed a copy of a Certificate of Authorization, as required by N.J.S.A. 45: 8-56, with the Authority must include a copy of the Certificate with the EOI.

Professional service corporations established pursuant to the "Professional Service Corporation Act," P.L. 1969, c. 232 (N.J.S.A. 14A: 17-1 et seq.), are exempt from this requirement.

#### **Signatures**

Expressions of Interest, Technical Proposals and Fee Proposals must be signed by an officer of the Firm authorized to make a binding commitment.

#### **Incurring Costs**

The Authority shall not be liable for any costs incurred by any consultant in the preparation of their EOI.

#### **Addendum to EOI Solicitations**

If, at any time prior to receiving EOIs, it becomes necessary to revise any part of this EOI solicitation, or if additional information is necessary to enable a firm to make an adequate interpretation of the provisions of this EOI solicitation, an addendum to the EOI solicitation will be made available on the Authority's web-site as described herein.

#### **Acceptance of EOIs**

The Authority may award an OPS for these services to a firm that the Authority determines best satisfies the needs of the Authority. The solicitation for an EOI or Technical Proposal does not, in any manner or form, commit the Authority to award any OPS. The contents of the EOIs may become a contractual obligation, if, in fact, the EOI or Technical Proposal is accepted and an OPS is entered into with the Authority. Failure of a firm to adhere to and/or honor any or all of the obligations of this EOI - Technical Proposal may result in cancellation of any OPS awarded by the Authority.

#### **Rejection of EOIs**

The Authority shall not be obligated at any time to award an OPS to any consultant. The Authority reserves the right to reject any and all proposals or to negotiate with any proposer in accordance with applicable law.

#### **Final Contract**

Any OPS entered into with a selected Consultant shall be a contract that shall be satisfactory to the Authority in accordance with the laws of the State of New Jersey. It is understood that any OPS that may be awarded will be on the basis of a professional services agreement within the intent of the statutes and laws of the State of New Jersey, specifically N.J.S.A. 27:23-6.1.

#### **Dissemination of Information**

Information included in this document or in any way associated with this project is intended for use only by the Consultant and the Authority, and is to remain the property of the Authority. Under no circumstances shall any of said information be published, copied or used by the Consultant, except in replying to this EOI solicitation.

#### **News Releases**

No news releases pertaining to this RFEIOI or the Project to which it relates shall be made without Authority approval and then only in coordination with the issuing office and the Authority's Media Relations Coordinator.

**Public Records**

Any EOI or Technical Proposal submitted by a firm under this EOI solicitation constitutes a public document that will be made available to the public upon request pursuant to New Jersey's Open Public Records Act, N.J.S.A. 47: 1A-1 et seq. The Consultant may request the Authority's General Counsel to deem certain sections of its EOI or Technical Proposal containing personal, financial or proprietary information non-disclosable, which determination shall be in accordance with such Act.

**Section III**  
**OPS Procurement and Project Schedule**

Posted .....	April 26, 2017
Deadline for Inquiries .....	May 2, 2017
Posted Responses to Inquiries .....	May 5, 2017
Submittal of Expressions of Interest .....	May 17, 2017
Recommendation to Award OPS .....	July 25, 2017
Notice to Proceed .....	September 19, 2017
Estimated Start of Scheduled Retaining Walls and Noise Barriers Inspections .....	October 2, 2017
End of Scheduled Retaining Walls and Noise Barriers Inspections .....	May 18, 2018
Submission of Draft Individual Reports .....	See Scope of Work
Submission Deadline for Final Inspection Reports .....	October 31, 2018
End of Potential Unanticipated Work .....	November 30, 2018
Project Completion .....	December 31, 2018

## SECTION IV Scope of Services

### I. GENERAL

1. The Consultant shall be responsible for the thorough understanding of the project requirements including the applicable codes and regulations governing the inspection. The Consultant shall become familiar with the New Jersey Turnpike Authority's (NJTA) procedures, presentation and coordinating requirements for the effective performance of the project.
2. It will be the Consultant's responsibility to bring to the attention of the Authority, in the Request for Expression of Interest, or during preparation of the Expression of Interest, any errors, omissions or non-compliance discovered in this "Scope of Services" section. By neglecting to do so, the Consultant will be responsible to make any resulting scope of services changes without additional compensation.

### II. PROJECT COORDINATION

#### A. NJTA Coordination:

1. The Consultant shall coordinate its activities with NJTA personnel throughout the course of this Order for Professional Services (OPS). Early on, the Consultant will establish a means of coordinating and reporting its activities with the designated project liaison to ensure an expeditious exchange of information. The NJTA shall be informed of all meetings with other agencies, government officials and/or groups so that NJTA personnel can attend if necessary.
2. All correspondence, invoices and transmittals for the project shall be referenced by the NJTA's Order for Professional Services Number.
3. The Consultant will be required to submit three (3) different monthly schedules/reports as follows:
  - Project Schedule – Resource loaded project schedule using MS Project. Tasks shall be delineated per inspection team and shall include all subconsultants. The schedule shall delineate between office and field work. Individual Retaining Wall and Noise Barrier inspection dates and milestones are not required unless they are critical path items (i.e. permits, applications, lane closings). The initial project schedule shall be submitted at the kick off meeting. Monthly updates, reflecting the baseline schedule shall be submitted electronically.
  - Invoice Progress Report - The Consultant will be responsible to prepare and submit a separate monthly progress report and progress schedule indicating percent complete by task, corresponding to the Invoices. Invoices shall be submitted and received by the Authority's Engineering Department within 15 calendar days of the end of each billing period. Standard reporting forms in MS Excel will be provided by the Authority at the project's kick-off meeting
  - Submission Schedule – The Consultant shall submit a Retaining Wall and Noise Barrier inspection and report submission schedule which includes but may not be limited to the following fields: Inspection Date, Draft Report Submission, Final Report Submission, Comments. The Authority's Bridge Inspection Program Technical Manager Consultant will provide a template in Excel at the kick off meeting. The initial schedule shall be submitted within 30 days of receipt of the template. Monthly updates are required to be submitted by the 7th of each month.
4. The Consultant shall notify the Authority's Liaison Engineer immediately, if and when the percent fee expended exceeds the project percent complete. The Consultant shall implement at once the necessary adjustments and/or make recommendations on how to alleviate this condition. Failure to

do so will put the Consultant at risk of having to absorb any costs above and beyond the authorized fee.

5. Invoices are required to be submitted on a monthly basis.
6. The Consultant shall submit the names of the personnel in the inspection teams, along with their resumes and NHI training certificates, for approval by the Authority. The Authority's Liaison Engineer shall have the right to approve the number, qualifications and performance of the Consultant's personnel and to have the Consultant remove any such personnel from the project who are not approved or licensed/certified as required, or who fail to perform satisfactorily. The Consultant shall not remove approved personnel assigned to the project without the written approval from the Authority. Certificates shall be in PDF format with the following naming convention: "Firm Last First # year" ("ABC Smith Jane 130092 2012.pdf"). For acceptable Non-NHI courses such as the Penn DOT two week bridge inspection course, use "Firm Last First #Equiv year" ("Bridge Associates Johnson Edward 130055Equiv 1999.pdf"). All files shall be submitted in one general folder or directory, not broken up into folders/subfolders. Certificates shall be submitted at the kick off meeting.

**B. Quality Management and Coordination with Bridge Inspection Program Technical Manager Consultant:**

Immediately following Notice to Proceed, the Consultant shall submit a Project-Specific Quality Control/Quality Assurance (QA/QC) Plan for Authority's approval which clearly explains how its firm-wide Quality Management Program translates into the quality process for this assignment. The QA/QC Plan shall identify credentialed QA/QC personnel and their roles, and explicitly outline measures to be followed throughout the duration of the assignment, including the management of subconsultants and their work. The Consultant is entirely responsible for the quality of submittals in this inspection assignment, and will be monitored by the Authority on a continued basis for adherence to the approved QA/QC Plan. Should it be determined that incomplete or erroneous reports are being submitted, then the Consultant will be required to convene a meeting with the Authority to review the deficiencies and propose an action plan to bring the reports to established standards.

It is noted that general overview of the 2017 NJTA Bridge Inspection Program - Retaining Wall and Noise Barrier Inspection will be performed by the Authority's Bridge Inspection Program Technical Manager Consultant (Technical Manager) to ensure accuracy, consistency and completeness in inspection data collection and entry, inspection report format and content. The Technical Manager will be responsible for unscheduled field audits for compliance of inspection personnel and procedures, review of sample draft inspection reports and limited audits of Bentley (InspectTech) data entry. A kickoff meeting will be scheduled with the Consultant, the Authority's Liaison Engineer and the Technical Manager to discuss inspection procedures, personnel, report format, schedule and submittals.

The Authority's Liaison Engineer and the Technical Manager will arrange coordination meetings with all 2017 NJTA Retaining Wall and Noise Barrier Inspection Consultants to establish consistent inspection procedures, coding guidelines, and report format. The Consultant shall include two (2) half a day coordination meetings at the Authority's Administration Building in the estimate of work hours in the EOI and Fee Proposal.

**III. REGULATIONS AND GUIDELINES TO BE FOLLOWED, BUT NOT LIMITED TO:**

**A. New Jersey Turnpike Authority (NJTA)**

NJTA Manual for Retaining Wall and Noise Barrier Inspection, Version1.0, March 2017  
NJTA Standard Specifications 2016  
NJTA Design Manual

NJTA Standard Drawings  
Structural Repair Programs  
Emergency and Priority 1 Repair Definitions  
Authority Deficiency Category Definitions  
Bridge Inspection Security Measures  
BridgeInspect Collector User Manual, version 7.4  
BridgeInspect Inspector Software User Manual, version 5.2  
Manual for Traffic Control in Work Zones

B. Structure Nomenclature/Inspection Methodology

**Federal Highway Administration (FHWA)**

Bridge Inspectors Reference Manual, December 2006  
National Bridge Inspection Standards, 23 CFR Part 650, January 2005

**American Association of State Highway/Transportation Officials (AASHTO)**

Manual for Bridge Evaluation, 2<sup>nd</sup> Edition with 2016 Interims  
Manual for Bridge Element Inspection

**Occupational Safety and Health Administration (OSHA)**

Commercial Diving Operations Standards, 29CFR Part 1910 Subpart T

**NJDOT**

Underwater Inspection and Evaluation of NJ Bridges Guidelines Manual, June 1994 Edition with August 2008 Revisions.

C. Concrete Deficiencies

**American Concrete Institute (ACI)**

Guide for Conducting a Visual Inspection of Concrete in Service, 2008, ACI 201.1R-08

D. Steelwork/Paint Deficiencies

**Steel Structures Painting Council (SSPC)**

**IV. GENERAL REQUIREMENTS AND CONDITIONS**

- A. The Consultant shall defend, indemnify, and hold harmless the Authority, its Commissioners, Directors, officers, employees and agents from liability of any nature or kind arising out of any act or omission of the Consultant or any person, firm or corporation employed by the Consultant in connection with the work.
- B. The Consultant shall not assign this OPS, sublet, or transfer any part of the work or obligations hereunder, without the prior written approval of the Authority.
- C. The Consultant shall comply with all Federal and State laws applicable for the work to be performed under this OPS.
- D. The Consultant shall obtain a traffic permit prior to performing any work on the Authority's Right of Way.
- E. The Consultant shall provide traffic control in accordance with the current edition of the New Jersey Turnpike Authority Manual for Traffic Control in Work Zones, for Retaining Wall and Noise Barrier inspection work along the New Jersey Turnpike and Garden State Parkway. The Consultant shall also provide any traffic control on local and state roads in accordance with the governing agency's requirements. **The Consultant shall not rely exclusively on State Police-assisted slowdowns, and instead shall assume that availability for slowdowns will be limited. Under the Approach to the Project Section of the**



**Expression of Interest, the Consultant shall include an estimate for the duration and quantity of shoulder and lane closings for this OPS.** No shoulder or lane closings on the New Jersey Turnpike will be approved until the Consultant, its subconsultants, and its subcontractors view the Authority's Traffic Safety Training video on lane closing procedures. Reimbursement for furnishing traffic control devices and shoulder/lane closings will be made as a direct expense.

A Traffic Control Coordinator (TCC) shall be required where lane and half ramp closings are to be installed by the consultant or vendor as part of design or bridge inspection projects. A TCC will not be required for shoulder closings installed by the consultant or vendor. Refer to Standard Supplementary Specifications 801.04 (Parkway) and 801.07 (Turnpike) for TCC requirements and certification which shall apply to design and bridge inspection assignments involving lane and half ramp closings.

Lane closings and daily shoulder closings necessary for the inspection work shall be provided and maintained by the Consultant, and shall conform to applicable Standard Drawings. Lane and shoulder closings may not be possible at all times due to conflicts with ongoing higher priority construction or maintenance work in certain areas. The Consultant shall utilize all available Maintenance and Contractor installed closings, where possible. This will require close coordination and contact with the Authority's Operations Department. Lane and shoulder closing requests, as well as slowdown requests, shall be submitted via the web based application to the Authority (instructions will be provided to the consultants at the kick-off meeting) one week in advance of the desired closings (by Monday, 12:00 PM), and shall conform to the Authority's Lane and Shoulder Closure Tables in the Manual for Traffic Control in Work Zones.

- F. Short duration shoulder closings necessary for the inspection work shall be provided and maintained by the Consultant. **Short duration shoulder closings shall be installed for a maximum duration of 2 hours, and are restricted to cursory ground level surveys requiring a TMA.** Short duration shoulder closings shall conform to Standard Drawing No. TP-8.
- G. All inspection work shall be performed behind guide rail or other existing roadside barriers, where feasible. **Where work must be conducted in a closed lane or shoulder, a truck mounted attenuator (TMA) shall be provided and placed preceding the work area in accordance with the current AASHTO Roadside Design Guide. For moving inspection operations which do not require the setup of equipment (ladders, snoopers, etc.), TMAs will also be required.** The truck shall be in excellent operating condition and have a minimum gross weight of 10 tons. The truck mounted attenuator shall be the Alpha100K as manufactured by Energy Absorption System, Inc., and distributed by Transpo Industries, Inc., or an approved NCHRP 350, Test Level 3 compliant equal. The truck shall also be equipped with two large conspicuous overhead flashing lights. If supplied with an arrow board, only the "CAUTION" bar shall be illuminated. The top of the arrow board must be 13 feet 6 inches from the ground for either standalone arrow boards or TMA attached arrow boards. TMAs shall be provided by the Consultant. A separate line item shall be provided in the Fee Proposal for the cost associated with furnishing the TMAs for the project and for fueling of the TMAs. For moving inspection operations, the TMA must be fitted with a "Shoulder Closed" sign that will not be obstructed or obstruct any oscillating lights or the arrow board panel. The Consultant will be required to provide a letter from the proposed rental company, which states that the TMAs supplied meet or exceed NCHRP 350, Test Level 3 compliance. In addition, the Consultant will be required to take photos of the TMA, specifically for review of the placement of the TMA mounted "Shoulder Closed" sign.
- J. The Consultant shall furnish specialized equipment as needed to perform Retaining Wall and Noise Barrier inspections. Reimbursement for special inspection equipment will be made as a direct expense.
- K. Reimbursement for any additional cost incurred by the Consultant due to circumstances beyond the control of the Consultant, such as down time for bad weather, shall be approved by the Authority's Liaison Engineer. The Authority's Liaison Engineer will have sole discretion in determining if circumstances, and therefore compensation for additional work and expenses, are beyond the control of the Consultant.

- L. The Consultant shall retain legal responsibility for all Retaining Wall and Noise Barrier inspection work, which shall in general follow the latest standards including all the applicable codes and regulations governing the inspection and practices of the Authority.

- M. Unanticipated Work

The Consultant shall provide in the EOI and Fee Proposal an additional 750 hours for each OPS for unforeseen emergency inspection, load rating, repair design services and/or extra work as directed by the Authority (Unanticipated Hours). In addition, \$20,000.00 in direct expenses for each OPS for this task (Unanticipated Direct Expense) shall be included as a separate line item in the Fee Proposal

The Authority's Liaison Engineer may require additional information with regard to a reported deficiency by the Consultant, the Authority's Maintenance Department and/or another party. The required information may consist of a survey or sketch with photographs and recommendations for corrective action. Depending on the deficiency, the Consultant may be required to provide design services. The design services may consist of preparing calculations, providing details and specifications, and developing cost estimates. These services may require the use of a structural engineer and a geotechnical engineer. The structural and geotechnical engineer shall be a licensed professional engineer in New Jersey.

Explicit written authorization must be received from the Authority's Liaison Engineer in order to charge time to this task, prior to commencement of the work. The Consultant will be requested to provide an estimate of hours and cost, in writing, related to each special assignment under consideration for prior approval.

- N. All team leaders shall notify the Authority of their location via email on a daily basis. Email template shall be provided to each consultant and subconsultant at the kick off meeting.

## V. SPECIFIC PROJECT SERVICES

### Inspection Scope

- A. The services to be furnished by the Consultant shall include, but not necessarily be limited to, the following items of work:

The Authority's Retaining Wall and Noise Barrier Inspection Program involves the inspection of 218 routine Retaining Walls and 85 Noise Barriers situated along the northern portion of the New Jersey Turnpike and Garden State Parkway roadways and 222 routine Retaining Walls and 32 Noise Barriers along the southern Turnpike and Parkway roadways. The structures will generally be inspected on a five-year cycle.

The Consultant is expected to field verify the locations and characteristics of the Retaining Walls and Noise Barriers and to either enter or update the existing data into the inventory system. The consultant shall notify the Authority and the Technical Manager of discrepancies from the attached structure lists (see Section XVI through Section XIX).

1. For each Retaining Wall and Noise Barrier listed in SECTIONS XVI through XIX, the Consultant shall perform a close visual inspection from the ground, supplemented where necessary by ladders or special equipment to determine the following:
  - a. The condition of the Retaining Wall or Noise Barrier.
  - b. The condition of the appurtenances. All appurtenances are included as part of the inspection, including but not limited to: sign structures and/or light poles attached to

- the top of the retaining wall, fencing, guide rail and barrier on top of retaining wall, and utilities.
- c. Deficiencies which may affect the safety of the travelling public and/or the structural integrity of the structure shall be inspected hands-on and shall be brought to the Authority's attention immediately.
2. For retaining walls along waterway, the Consultant shall probe and check for possible scour and footing undermining conditions along the face of each wall. The Consultant shall also take soundings at ten (10) foot intervals along the face of each wall. Provide a streambed profile showing the streambed along the face of each wall. Water level, at the time of inspection, shall be shown on the profile. If tidal flow is present, both mean high and low water level shall be shown. The depth of water in the channel at the wall units must be verified by the Team Leader prior to the underwater inspection, to verify that an underwater inspection is indeed required.
  3. The retaining walls between Mileposts 0.51 to 2.45 on the Parkway and Interchange 15X Ramp SET at Milepost 110.35 on the Turnpike are along waterway. The Consultant shall perform an underwater inspection, if warranted, of those portions of the walls that are below mean low water. This inspection shall be a hands-on inspection performed by a qualified dive team. A Professional Engineer, licensed in the State of New Jersey, shall be present when the underwater inspection is performed. An underwater report containing observations of noted conditions shall be submitted and shall be reviewed by the Consultant. The inspection shall be a Type 2 classification in accordance with NJDOT's Underwater Inspection and Evaluation of New Jersey Bridges Guidelines Manual, June 1994 Edition with August 2008 Revisions. The underwater inspections are in addition to the requirements of the retaining wall inspections (not in place of).

The minimum size of a dive team shall be three (3) as follows:

I, Commercial Scuba Air Diving

- a. Designate Person-in-Charge (DPIC)
- b. Standby Diver
- c. Diver (line tended)

II, Commercial Surface – Supplied Air Diving

- a. DPIC
- b. Diver
- c. Tender

The requirements for diver and dive team training are as follows:

The diver shall have successfully completed NHI Course No. 130091 – Underwater Bridge Inspection within the last 5 years. The diver/diver team's NHI certificate shall be submitted with the EOI. The diver shall be commercially trained at an Association of Commercial Diving Educators (ACDE) accredited school complying with the requirements of ANSI/ACDE-01-1993, "Commercial Diver Training – Minimum Standard". A military diving school meeting the same standards is also acceptable training.

In lieu of meeting the requirements of above, a diver may be trained through either field experience or a combination of formal diving training and field experience. The OSHA diving standard (29-CFR 1910.410) specifies that all dive team members (i.e., divers and support employees involved in diving operations including the DPIC) must have experience or training in the use of tools, equipment, systems, techniques, diving

operations and emergency procedures which pertain to their assigned tasks and diving modes (i.e., scuba diving on air, surface supplied diving on air or mixed gas diving). Additionally, dive team members who are exposed to hyperbaric conditions (e.g., diver) or control the exposure of others to hyperbaric conditions (e.g., DPIC or decompression chamber operator) must be trained in diving related physics or physiology. The level of training required by the standard depends upon the particular experience or function an employee fulfills on a dive team, the specific underwater operational tasks being performed and the diving mode to which the employee is assigned.

Records of all diver or dive team training shall be maintained by the diving company and shall be available for inspection.

All dive team members shall be trained in cardiopulmonary resuscitation and standard first aid (American Red Cross Standard).

The Consultant will be responsible for determining whether any walls which are not noted above require a diving inspection, and shall bring this to the attention of the Authority's Liaison Engineer for further discussion.

4. Provide two general photos where the first photo depicts a general view of the front face of the Retaining Wall and the second photo depicts the top of roadway or embankment supported by the wall. For Noise Barriers, elevation photos of the front and rear faces should be included. In addition, take extensive photographs of any deterioration or defects to substantiate the findings. If work has been done on a structure, photos representing the repairs should be included.
5. The inspections shall encompass all primary structural elements, secondary elements, and appurtenances comprising the Retaining Walls and Noise Barriers, including but not limited to wall facing, foundations, anchors, vertical supports, joints, railings, barriers and drainage elements.

Deficiencies are noted with their locations and approximate measurements for the primary purpose of establishing degree of magnitude/importance.

6. The Consultant shall adhere to the Authority's Emergency and Priority 1 Repair procedures, for the reporting of potential Category A deficiencies.
7. Category A Deficiencies - The Consultant shall notify the Authority's Liaison Engineer and the Technical Manager whenever a new Category A deficiency is detected, via an email with photos. Upon confirmation of the new Category A deficiency, the Consultant shall issue and file the Category A notification through the Authority's BridgeInspect Collector System. For previously reported Category A deficiencies to be monitored under this assignment, the Consultant shall visit the bridge site, perform a cursory check of the noted deficiency, and take notes and photographs from the same angle as depicted in the previous Category A report. A new Category A report shall be generated by the Consultant referencing the original report date documenting the deficiency requiring immediate attention whether the condition has worsened or not.

Refer to Subsection E for Category A - Emergency and Priority 1 definitions.

Under the Authority's BridgeInspect Collector System, a Category A report (letter) is issued for each item and distributed to Engineering and Maintenance for notice and prompt action.

B. Development of an Individual Inspection Report for each structure Using Bentley (InspectTech) Software

1. Bentley will provide a minimum of three (3) BridgeInspect Collector Laptop Licenses for each of the OPS, unlimited access, usage, technical support for the online BridgeInspect Collector software, NJTA and consultants' access to the inspection report online, and training. The Authority will provide the above to the Consultant for its use.
2. The Consultant shall provide a list of users that will require access to Bentley (InspectTech) software to the Authority at the kick off meeting. This includes all users that require email notifications regarding procedures and clarifications. **All users are required to submit all questions and issues related to InspectTech via email to NJTBridgesHelp@turnpike.state.nj.us.** All latest directives and clarifications are available via <http://www.state.nj.us/turnpike/InspectTech/IT.pdf>.

The Consultant will be responsible for becoming proficient with InspectTech, including updates. The NJTA will provide training and assistance to inspection consultants. The Consultant shall include the costs associated with a full day training session for key staff and any other effort associated with using InspectTech in their Fee Proposal.

C. Retaining Wall and Noise Barrier Inspection Reports

1. Report Format

The Consultant shall submit a draft report for each Retaining Wall and Noise Barrier to the Technical Manager. An initial group of (5) format reports will be pre-selected for review based on the Consultants submitted inspection schedule and the various types of Retaining Walls and Noise Barriers. In addition to the format reports, the Technical Manager will perform a review of approximately 25% of the draft reports submitted in each grouped submission. The comments from the reviewed format and subsequent draft reports shall be addressed and incorporated as needed into all reports including the remaining 75% not reviewed.

A sample output report and sample input forms have been posted to the Authority's Secure File sharing site along with other project reference and materials. The report shall be generated in InspectTech.

Category A reports for Emergency and Priority 1 items shall be included.

a) Report Sections

The report shall have the following sections. All are generated in IT unless otherwise noted\*:

- Cover
- Table of Contents
- General Information / Inspection Information
- Conclusions and Recommendations
- Element defect inspection forms
- Photographs: General, Defect, Work Done
- Soundings\*
- Underwater Inspection Report\*
- Category A Report, where applicable

Field notes are to be documented on Retaining Wall and Noise Barrier inspection forms. General information includes Retaining Wall and Noise Barrier name and location, year built, construction type and contract number, measurements, and documentation and photographs of defects regarding the inspected elements. The element defects are shown in tabular format on the inspection form. All observed defects are to be checked under the appropriate type of Retaining Wall and Noise Barrier. Each defect shall be categorized as either N/A, if not a repairable defect, Category A (Emergency), B (Contract), D (Maintenance), or E (Monitor) for conditions which are not repairable at the time of inspection but are recommended for monitoring during future inspections. Defect quantities, location and photo references shall be documented on the inspection forms.

b) Report Section Descriptions

A description of the information per report section is listed below:

General Information / Inspection Information – Team leader, inspectors, equipment, MPT, temperature, inventory information.

Conclusions and Recommendations / Deficiency Coding -

Inspection shall include the defects observed in wall/panel, vertical support, joints, anchor, foundation, connection, guide rail protection, barrier on top and fence on top. The condition defects are provided in Manual for Retaining Wall and Noise Barrier Inspection.

Conclusions and Recommendations shall include statements to describe the following:

- General condition of the retaining wall or noise barrier based on inspection findings.
- Condition changes compared with the last cycle inspection, when applicable.
- Work done since last cycle inspection and/or work scheduled in an upcoming contract.

c) Photographs

Photographs shall be uploaded onto the BridgeInspect Collector System with captions in the following order:

GENERAL PHOTOS: For Retaining Wall – Elevation (1), Roadway View (1). For Noise Barrier – Front and Rear Elevations.

DEFECT PHOTOS: Deficiencies existing on the Front Face of Retaining Wall/Noise Barrier, Vertical Support, Foundation, Anchor, Guide Rail Protection, Barrier on Top, Fence on Top or other locations, as noted.

WORK DONE: Work done photos shall be included within the defect photos.

Note that photo references are not linkable to fields. Photo number references should therefore be manually entered after the photographs are numbered. Photographs are required for all Category A, B or D defects (repairable defects) and Category E for defects considered non-repairable but are recommended for future monitoring.

Deficiency quantities (e.g. 20 SF of concrete is hollow sounding) and location shall be included in the caption. The photo date shall be recorded upon upload and reflect the actual date the photograph was taken. Although not all photos will be included in the

Report, the Consultant shall take photos of every repairable defect and upload onto the InspectTech database. Photos not included in the Inspection Report will also be useful for scoping of Retaining Wall/Noise Barriers repair contracts.

Deficiencies noted in reports shall be cross referenced to photos taken which depict that deficiency.

When improvements are underway at a structure, the Consultant shall provide photos of the areas under construction. This will require early familiarization with the Authority's planned bridge repair contracts for 2017.

All photographs shall have a minimum resolution of four (4) mega pixels. All report photographs shall be numbered with the first numeral being the cycle number of the report (ex. 7-1).

## 2. Format Report Submission

The Technical Manager will select representative reports to serve as format reports and will provide the list to the Consultant at the kick off meeting.

## 3. Draft Report Submission

The Consultant shall submit approximately 20 draft reports in each submission. The submission groups shall be included in the consultant's first Submission Schedule for the Authority's approval. Draft reports shall be submitted in electronic format (pdf). The Technical Manager will establish FTP sites to upload the reports. The Authority will review a select number of reports per group and will return red-lined comments to the Consultant. The consultant shall address and incorporate all comments as needed into the remaining draft and final reports including those that were not reviewed by the Authority.

## 4. Final Report Submission

One hard copy of each report shall be submitted. A yellow cover shall be used for each final report which shall be bound by a clip with a soft report cover (yellow) to eliminate hole punching.

## D. Electronic Deliverables

Retaining Wall and Noise Barrier inspection report files shall be provided on DVD, flash drive or other acceptable media. All reports shall be placed together in one folder for each roadway or subfolder set up specifically for inspection reports only. Working files for Underwater Inspection Reports shall also be included under a separate folder titled "Working Files". Each of the reports shall be named (GSP or TPK)\_(RetainingWall or NoiseBarrier)InspectionReport\_Structure Number.file extension. Examples include "GSP\_NoiseBarrierInspectionReport\_MP94.84N.pdf", and "TPK\_RetainingWallInspectionReport\_MP53.07SO.pdf".

## E. Authority Deficiency Category Definitions

To identify the severity of the deficiencies and prioritize the necessary repairs to help in planning for future Maintenance Force and Contract improvements, the deficiencies and conditions noted in the inspection reports shall be identified within one of the following Authority stipulated repair categories:

**CATEGORY A “Emergency”**

**Deficiencies that require immediate attention on an emergency or priority basis with prompt notification given to the Authority.**

Conditions discovered at the time of inspection which constitute an immediate impairment to the ability of the Retaining Wall or Noise Barrier to function in the safe capacity it was designed for include main structural member failure, collapse, impact damage, movement resulting in settlement of the supporting roadway, etc.

**CATEGORY B “Contract”**

**Deficiencies noted that are recommended for repair in the near future by an appropriate Contract as part of the Authority’s Capital Budget Program.**

This category involves repair work or alterations that are considered too extensive, or require special expertise, equipment, methods, or materials to repair, and are therefore put out as Contract work. Under this category are the following types of repair work: steelwork and connection repairs; reinforced concrete spall and crack repairs; timber decay; scour / erosion, etc.

**CATEGORY C “Deck Work”**

This category is not applicable for Retaining Walls or Noise Barriers.

**CATEGORY D “Maintenance” \***

**Deficiencies noted which can be repaired most expeditiously by the Authority’s own Maintenance Forces using Authority-owned equipment and materials.**

This category encompasses routine maintenance, housekeeping, accident clean-up, and repair work that includes all; concrete collision repairs; fencing repairs; mainline and ramp guide rail work; landscaping, and security items.

*\* Some of these items are no longer undertaken by Maintenance Forces. Final decision on the disposition of repair tasks by Contract or Maintenance Forces is left to the New Jersey Turnpike Authority Engineering Department.*

**CATEGORY E “Monitor”**

**Noted deficiencies or existing conditions that are considered long-term or slow developing and do not require remedial action at the present time but are defects and as such, should continue to be monitored so that appropriate remedial action can be implemented should it become essential or economically efficient.**

This category covers visible minor conditions related to the age of the structure, or slow / long-term deterioration not yet at the threshold requiring repairs, or items deferred for more efficient / economical inclusion in a planned future Contract. Defects in this category include the following: concrete shrinkage or settlement cracks, surface scaling; steelwork corrosion / paint deterioration; misalignments or bulging of panels; etc.



F. Emergency and Priority 1 Repair Definitions

The Consultant shall notify the Authority's Liaison Engineer and the Technical Manager at the time of inspection regarding any conditions deemed an Emergency or Priority 1 based on the definitions provided below, and file the conditions to the InspectTech BridgeInspect Collector System after obtaining concurrence from the Authority's Liaison Engineer.

**Emergency**

Major defects which, if not repaired immediately could lead to a total collapse of the structure. Included in this category are defects affecting the structural integrity of the Retaining Wall and Noise Barrier. In many instances, it may be necessary to partially or completely block off the suspect area which may adversely affect vehicular traffic until the repairs are made.

Defects which, in the judgment of the engineer, require immediate attention in order to eliminate significant safety hazards to the traveling public. Generally, an element of the Retaining Wall or Noise Barrier is found to be in critical condition.

Repairs under the Emergency category must be done as soon as possible. When delays are unavoidable, the use of temporary repairs must be considered and utilized whenever possible. In all cases, the repairs must start no later than fourteen (14) days from the date of notification of Maintenance Engineering. However, most repairs should be started within three (3) days of notification.

**Examples**

1. Slope Failure due to excessive erosion of backfill material.
2. Substantial tilting of the Retaining Wall or Noise Barrier.
3. Major deterioration or other conditions which affect the stability of the Retaining Wall or Noise Barrier.
4. Failure of foundation elements.
5. Significant horizontal or vertical movement of a Retaining Wall or Noise Barrier.

**Priority 1**

Major defects which, if not repaired, may cause a partial collapse of the structure.

Included in this category are defects affecting the stability of the Retaining Wall or Noise Barrier. In some instances, it may be necessary to partially or completely block off the suspect area which may adversely affect vehicular traffic until the repairs are made.

Also, include defects which, in the judgment of the engineer, need immediate attention to maintain the level of service it served or to ensure the safety of the traveling public.

Repairs under the Priority 1 category must be done as soon as possible. All repairs should start no later than thirty (30) days from the notification to Maintenance/Engineering.

### Examples

1. Wide crack in a Retaining Wall or Noise Barrier.
2. Large delaminations or spalls on concrete or masonry wall facing (may include cleaning of rebar).
3. Deterioration of primary structural elements in a Retaining Wall or Noise Barrier.
4. Leakage through expansion joint seals.
5. Erosion/scour holes around wall.

**SECTION V**  
**Staffing Schedule**  
 2017 New Jersey Turnpike Authority Bridge Inspection Program  
 OPS No. A3581  
 Retaining Wall and Noise Barrier Inspection - North

Classification (ASCE-Grade)	Task 1 Mobilization	Task 2 Inspection	Task 3 Inventory Updates	Task 4 Draft Reports	Task 5 Final Reports	Task 6 Unanticipated Hours	Total Hours
Project Manager ( )						30	
Senior Engineer ( )						10	
Engineer ( )						75	
Junior Engineer ( )						75	
Survey (3-man crew)						0	
Other-Specify ( )						60	
Other-Specify ( )						0	
Total Hours						750	

Note: The above chart is intended to act as a guide. The Consultant shall modify and expand Classifications and tasks as required to meet project needs.

**SECTION V**  
**Staffing Schedule**  
 2017 New Jersey Turnpike Authority Bridge Inspection Program  
 OPS No. A3652  
 Retaining Wall and Noise Barrier Inspection - South

Classification (ASCE-Grade)	Task 1 Mobilization	Task 2 Inspection	Task 3 Inventory Updates	Task 4 Draft Reports	Task 5 Final Reports	Task 6 Unanticipated Hours	Total Hours
Project Manager ( )						30	
Senior Engineer ( )						10	
Engineer ( )						75	
Junior Engineer ( )						75	
Survey (3-man crew)						0	
Other-Specify ( )						60	
Other-Specify ( )						0	
Total Hours						750	

Note: The above chart is intended to act as a guide. The Consultant shall modify and expand Classifications and tasks as required to meet project needs.

## SECTION VI Compensation Basis

Effective February 28, 2011 the New Jersey Turnpike Authority will no longer issue Non-Revenue Toll Passes to consultants working on Authority projects. Also effective this date, the consultant will be responsible for paying all tolls.

Following a review of submitted Expressions of Interest, the Authority will request Fee Proposal(s) from the firm(s) it deems most qualified.

The Fee Proposal shall be submitted as a cost-plus fee, based on reimbursement of direct professional and technical salaries, except Corporate Officers, Partners, Owners and routine secretarial and clerical services, times a multiplier, not to exceed 2.8, based on a 10% allowance for profit and an overhead rate of 154.5%, the individual firm's overhead rate as determined by Federal Audit Regulation (FAR) procedures, whichever is less plus direct expenses and subconsultant services, at cost. The multiplier shall not be applied to the premium portion of overtime. When Corporate Officers, Partners, Owners and/or Principals are required to provide services in a technical capacity, the salaries for such services shall be reimbursable. The multiplier covers all overhead and profit. No expenses or costs shall be billed unless specifically included in this EOI Solicitation. For general services provided by Corporate Officers, Partners, Owners and/or Principals working in a non-technical capacity, no compensation will be provided.

Average rate per classification/grade will not be permitted to determine total labor costs. The Consultant shall list each individual proposed for the project and include the hours and hourly pay rate.

Effective August 1, 2015, salary rate increases will be permitted in accordance with the following parameters:

- Salary increases will not be permitted for the first 24 months of any OPS Agreement from the date of execution;
- Starting at month 25, all staff, regardless of pay grade / title, will be allowed up to a maximum annual increase of 2%;
- The proposal salary rate increase schedule will apply to the prime consultant as well as all sub-consultants;
- Supplements to OPS Agreements executed prior to August 1, 2015 will not be permitted salary increases.

The Fee Proposal when requested, shall detail time (hours) and direct salary data for classifications conforming to ASCE Professional and Technical Grades, as shown on the staffing schedule and as modified by the Consultant to account for all required services. The ceiling amount shall be estimated to the nearest \$5,000.

Salaries shall be charged at the Consultant's hourly rates. The Consultant is responsible for managing the assignment, adhering to the number of hours, salary rates and personnel, as presented in the Expression of Interest and Fee Proposals. Individual standard and overtime rates must be approved by the Authority's Chief Engineer or the Chief Engineer's designated representative prior to commencement of work or whenever the Consultant proposes that an individual's rate be changed during the term of this OPS, provided such change is reflected in the Consultant's Fee Proposal. Except for overtime worked on construction supervision during permissible contract working hours, approval of overtime must be issued by the Authority. The Fee Proposal shall follow and reflect the staffing schedule as shown in Section {V}.

Direct expenses shall include only mileage, printing of inspection reports (including the costs of regular paper, colored paper, dividers, covers, photo pages, bindings, labels, and plastic covers), railroad flagging and inspection services, railroad and utility permits/insurance, rental cost for retaining wall and noise barrier inspection equipment, MPT costs including Police Traffic Directors, fuel and repairs for rented inspection equipment or TMAs, Authority approved safety vests, tolls charged by other agencies as required to access Authority retaining walls and noise barriers, underwater inspections, and expenses associated with the unanticipated assignment task, with prior written approval by the Authority. The Consultant shall provide the estimated direct costs for these items in the Fee Proposal. Mileage will be paid at the prevailing rate. Mileage will be reimbursed for travel between the Consultant's local office and the project site, NJTA offices, and meetings required by the Authority or its representatives, including the return trip. Any change to this rate is subject to the approval by the Authority's Chief Engineer.

Expenses for lodging and meals will be paid in accordance with the Federal per diem rates which can be found at [www.gsa.gov/perdiem](http://www.gsa.gov/perdiem). Compensation for lodging and meals must be approved in advance by the Authority, otherwise the Consultant will not be reimbursed for meals and lodging. This shall also apply to the Consultants subconsultants.

Subconsultant services are those required services performed by other firms at the Consultant's direction. These services in excess of \$5,000 must be approved in advance by the Authority.

Overnight delivery charges will be paid by the Authority if said delivery is specifically requested by the Authority and agreed to in advance. Otherwise, the Consultant will not be reimbursed for overnight delivery charges if the Consultant elects to use such services for his convenience. This shall also apply to the consultant's subconsultants.

**SECTION VII**  
**NEW JERSEY TURNPIKE AUTHORITY**  
**SMALL BUSINESS ENTERPRISE SUBCONSULTING PROGRAM**

It is the policy of the New Jersey Turnpike Authority (the "Authority") that Small Business Enterprises ("SBE") as determined and defined by the Division of Minority and Women Business Development ("Commerce Commission") and the Department of the Treasury ("Treasury") in N.J.A.C. 17:13-1.1, have the opportunity to compete for and participate in the performance of consultant services. The Authority is seeking participation of these SBEs for the issuance of certain Orders for Professional Services (OPS). Your Expression of Interest (EOI) must include a goal of awarding at least twenty-five (25%) percent of the total value of the OPS to subconsultants who are registered with the Division as a SBE. The Consultant must submit proof of its subconsultant's SBE registration. In the event that the Consultant cannot comply with the goal set forth above, prior to the time of the award, the Consultant must demonstrate to the Authority's satisfaction that a good faith effort was made to accomplish the above stated goal.

In order for the Authority to monitor and report SBE participation during the course of the OPS pursuant to N.J.A.C. 17:13-5.2, the consultant shall submit evidence of SBE participation in a form acceptable to the Authority, with each invoice for payment. Invoices for Payment submitted without the completed SBE Form will not be processed.

If the Consultant, for any reason, at any time during the course of the OPS, intends to make any additions, deletions or substitutions to the list of firms on the SBE form submitted to the Authority, the Consultant shall submit such proposed changes for approval. Any such proposed changes must comply with the requirements and procedures set forth herein.

Evidence of a "good faith effort" includes, but is not limited to:

1. Consultant shall request a listing of small businesses from the Division and the Authority and attempt to contact same;

2. Consultant shall keep specific records of its efforts, including the names of businesses contacted and the means and results of such contacts, receipts from certified mail and telephone records;
3. Consultant shall provide proof of solicitations of SBEs for their services, including advertisements in general circulation media, professional service publications and minority and women focus media;
4. Consultant shall provide evidence of efforts made to identify work categories capable of being performed by SBEs;
5. Consultant shall provide all potential subconsultants with detailed information regarding the project description;
6. Consultant shall attempt, wherever possible, to negotiate lower prices with potential SBE subconsultants which submitted higher than acceptable fee estimates; and
7. Efforts made to use the services of available community organizations, consultant groups, and local, state and federal agencies that provide assistance in the recruitment and placement of SBEs.

Consultant shall maintain adequate records to document their efforts and will provide same to the Authority upon request.

**SECTION VIII**  
**EQUAL EMPLOYMENT OPPORTUNITY REGULATIONS**  
**N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)**  
**And N.J.A.C. 17:27**  
**GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: 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. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted county employment goals established in accordance with N.J.A.C.17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.



In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval

Certificate of Employee Information Report

Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at [www.state.nj.us/treasury/contract\\_compliance](http://www.state.nj.us/treasury/contract_compliance)).

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Public Contracts Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C.17:27.**

## SECTION IX

### State Contractor Political Contributions Compliance

#### Public Law 2005, Chapter 51, Executive Order 134 and Executive Order 117

In order to safeguard the integrity of State government procurement by imposing restrictions to insulate the award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, Executive Order 134 was signed on September 22, 2004 ("Executive Order 134"). The Order is applicable to all State agencies, the principal departments of the executive branch, any division, board, bureau, office, commission within or created by a principal executive branch department, and any independent State authority, board, commission, instrumentality or agency. Executive Order 134 was superseded by Public Law 2005, c.51, signed into law on March 22, 2005. In September 2008, Executive Order 117 was signed and became effective November 15, 2008. It applies to the same government contracting entities subject to Executive Order 134, but extends the political contribution restrictions by expanding the definition of "business entity" to include, for example, more corporate shareholders and sole proprietors. Executive Orders 134 and 117, and Public Law 2005, c.51 contain restrictions and reporting requirements that will necessitate a thorough review of the provisions. Pursuant to the requirements of PL 2005, c.51, the terms and conditions set forth in this section are material terms of any OPS resulting from this RFEOI or RFP:

### DEFINITIONS

For the purpose of this section, the following shall be defined as follows:

- a) Contribution – means a contribution reportable as a recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act." P.L. 1973, c. 83 (C.19:44A-1 et seq.), and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1 et seq. Through December 31, 2004, contributions in excess of \$400 during a reporting period were deemed "reportable" under these laws. As of January 1, 2005, that threshold was reduced to contributions in excess of \$300.
- b) Business Entity – means any natural or legal person; business corporation (and any officer, person, or business entity that owns or controls 10% or more of the corporation's stock); professional services corporation (and any of its officers or shareholders); limited liability company (and its members); general partnership (and its partners); limited partnership (and its partners); in the case of a sole proprietorship: the proprietor; a business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction, including its principals, officers, or partners. The definition of a business entity also includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity ; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under section 527 of the Internal Revenue Code that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person's spouse or child, residing in the same household.

### **BREACH OF TERMS OF THE LEGISLATION**

It shall be a breach of the terms of the contract for the Business Entity to (i)make or solicit a contribution in violation of the Legislation, (ii)knowingly conceal or misrepresent a contribution given or received; (iii)make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv)make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate of holder of the public office of Governor, or to any State or county party committee; (v)engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the restrictions of the Legislation; (vi)fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii)engage in any exchange of contributions to circumvent the intent of the Legislation; or (viii)directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of the Legislation.

### **CERTIFICATION AND DISCLOSURE REQUIREMENTS**

- a) The Authority shall not enter into a contract to procure from any Business Entity services or any material, supplies or equipment, or to acquire, sell or lease any land or building, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor, or to any State, county or municipal political party committee, or legislative leadership committee during specified time periods.
- b) Prior to the award of any contract or agreement, the intended Awardee shall submit the Certification and Disclosure form, certifying that no contributions prohibited by the Legislation have been made by the Business Entity and reporting all contributions the Business Entity made during the preceding four years to any political organization organized under 26 U.S.C.527 of the Internal Revenue Code that also meets the definition of a “continuing political committee” within the means of N.J.S.A. 19:44A-3(n) and N.J.A.C. 19:25-1.7. Failure to submit the required forms will preclude award of a contract under this RFP, as well as future contract opportunities.
- c) Further, the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the contract, and any extension(s) thereof, at the time any such contribution is made.

## **STATE TREASURER REVIEW**

The State Treasurer or his designee shall review the Disclosures submitted pursuant to this section, as well as any other pertinent information concerning the contributions or reports thereof by the intended awardee, prior to award, or during the term of the contract, by the contractor. If the State Treasurer determines that any contribution or action by the contractor constitutes a breach of contract that poses a conflict of interest in the awarding of the contract under this solicitation, the State Treasurer shall disqualify the Business Entity from award of such contract.

## **ADDITIONAL DISCLOSURE REQUIREMENT OF P.L. 2005, C. 271**

Contractor is advised of its responsibility to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to P.L. 2005, c. 271, section 3 if the contractor receives contracts in excess of \$50,000 from a public entity in a calendar year. It is the contractor's responsibility to determine if filing is necessary. Failure to so file can result in the imposition of financial penalties by ELEC. Additional information about this requirement is available from ELEC at 888-313-3532 or at [www.elec.state.nj.us](http://www.elec.state.nj.us).

## **ADDITIONAL DISCLOSURE REQUIREMENT OF P.L. 2005, C. 51 (EXECUTIVE ORDER NO. 117)**

Executive Order No. 117 (Corzine 2008) is designed to enhance New Jersey's efforts to protect the integrity of government contractual decisions and increase the public's confidence in government. The Executive Order builds on the provisions of P.L. 2005, c. 51 ("Chapter 51"), which limits contributions to certain political candidates and committees by for-profit business entities that are, or seek to become, State government vendors.

Executive Order No. 117 extends the provisions of Chapter 51 in two ways:

1. The definition of "business entity" is revised and expanded so that contributions by the following individuals also are considered contributions attributable to the business entity:
  - Officers of a corporation, any person or business entity who owns or controls 10% or more of the corporation's stock, and professional services corporations, including any officer or shareholder, with the term "officer" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements ([N.J.A.C. 19:25-26.1](#)), with the exception of officers of non-profit entities;
  - Partners of general partnerships, limited partnerships, and limited liability partnerships and members of limited liability companies (LLCs), with the term "partner" being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements ([N.J.A.C. 19:25-26.1](#));
  - In the case of a sole proprietorship: the proprietor; and
  - In the case of any other form or entity organized under the laws of this State or any other state or foreign jurisdiction: the entity and any principal, officer, and partner thereof;
  - Spouses, civil union partners, and resident children of officers, partners, LLC members, persons owning or controlling 10% or more of a corporation's stock, all shareholders of a professional services corporation, and sole proprietors are included within the new definition, except for contributions by spouses, civil union partners, or resident children to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides.

2. Reportable contributions (those over \$300.00 in the aggregate) to legislative leadership committees, municipal political party committees, and candidate committees or election funds for Lieutenant Governor are disqualifying contributions in the same manner as reportable contributions to State and county political party committees and candidate committees or election funds for Governor have been disqualifying contributions under Chapter 51.

*Executive Order No. 117 applies only to contributions made on or after November 15, 2008, and to contracts executed on or after November 15, 2008.*

Only the intended Awardee will be required to submit the required P.L. 2005 c. 51/Executive Order 117 and P.L., 2005, c. 271 forms. The **combined** Chapter 51/Executive Order 117 form and the Chapter 271 form are available on the Department of Treasury Division of Purchase and Property's website at:  
<http://www.state.nj.us/treasury/purchase/forms.htm>.

**SECTION X**  
**Set-Off for State Tax**  
**(N.J.S.A. 54:49-19)**

Please be advised that pursuant to P.L. 1995. C. 159, effective January 1, 1996 and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership, or S corporation under contract to provide goods or services or construction projects to the State of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods or services or construction projects and at the same time the taxpayer, or the partner or shareholder of that entity, is indebted for any State tax, the Director of the Division of Taxation shall seek to set-off that taxpayer's, partner's or shareholder's share of the payment due to the taxpayer, partnership, or S corporation. The amount of set-off shall not allow for the deduction of any expenses or other deductions which might be attributable to a partner or shareholder subject to set-off under this act. No payment shall be made to the taxpayer, the provider of goods or services or the contractor or subcontractor of construction projects pending resolution of the indebtedness.

The Director of Division of Taxation shall give notice to the set-off to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects and provide an opportunity for a hearing with thirty (30) days such notice under the procedures for protests established under R.S. 54:49-18. No requests for conference, protest or subsequent appeal to the Tax Court from any protest under this section shall stay the collection of the indebtedness. Interest that may be payable by the State pursuant to P.L. 1987, c. 184 (c.582:32-32et seq.) to the taxpayer, the provider of goods or services, or the contractor or subcontractor of construction projects shall be stayed.

## **SECTION XI**

### **Right to Audit**

Pursuant to N.J.A.C. 17:44-2.2, authority to audit or review contract records:

- (a) Relevant records of private vendors or other persons entering into contracts with covered entities are subject to review by the Office of the State Comptroller (OSC) pursuant to N.J.S.A. 52:15C-14(d).
- (b) As of November 15, 2010, the Consultant (contract partner) shall maintain all documentation related to products, transactions or services under this contract for a period of five years from the date of final payment. Such records shall be made available to the New Jersey Office of the State Comptroller upon request.

## **SECTION XII**

### **Source Disclosure Certification**

Pursuant to N.J.S.A. 52:34-13.2 (Executive Order 129 (2004)), the Authority must consider the requirements of New Jersey's contracting laws, the best interests of the State of New Jersey and its citizens, as well as applicable federal and international requirements.

The Authority shall insure that all Firms seeking to enter into any contract in which services are procured on its behalf must disclose:

- a. The location by country where the services under contract will be performed;
- b. Any subcontracting of services under the contract and the location by country where the subcontracted services will be performed.

This information must be disclosed on the Vendor Source Disclosure Form – N.J.S.A. 52:34-13.2 (Executive Order 129 (2004)), which is available on the authority's website at: <http://www.state.nj.us/turnpike/documents/vendor-disclosure-form.pdf> and returned with your firm's Expression of Interest (EOI).

## **SECTION XIII**

### **Disclosure of Investment Activities in Iran**

Pursuant to N.J.S.A. 52:32-57(a), the bidder must certify that neither the Proposer, nor one of its parents, subsidiaries, and/or affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the Proposer is unable to so certify, the Proposer shall provide a detailed and precise description of such activities to the Authority. Each Proposer (and all Subconsultants) shall certify under penalty of perjury, date and return to the Authority the completed form entitled "Disclosure of Investment Activities in Iran" which is available on the Authority's website at: <http://www.state.nj.us/turnpike/documents/Disclosure-of-Investment-Activities-in-Iran.pdf> with your firm's Expression of Interest (EOI). Failure to include the completed form, certified and dated, shall be grounds for rejection of Proposer's Expression of Interest (EOI).

Pursuant to N.J.S.A. 52:32-57(a), any person or entity that is on the list of entities that are doing business with Iran is ineligible to and shall not bid on or submit a proposal for a contract with the Authority.

**SECTION XIV**  
**Antidiscrimination Provisions**

In accordance with N.J.S.A. 10:2-1 every contract for or on behalf of the State or any county or municipality or other political subdivision of the State, or any agency of or authority created by any of the foregoing, for the construction, alteration or repair of any public building or public work or for the acquisition of materials, equipment, supplies or services shall contain provisions by which the contractor agrees that:

- a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;
- b. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex;
- c. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$ 50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and
- d. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract.

**SECTION XV**  
**Standards Prohibiting Conflicts of Interest**  
**Executive Order 189 (1988 - Kean)**

Pursuant to N.J.S.A.52:34-19 and Executive Order 134 (1976 - Byrne), Executive Order 189 (1988 - Kean) includes the following prohibitions on any vendor which provides or offers or proposes to provide goods or services to or perform any contract for the State of new Jersey or any State agency.

- (a) No vendor shall pay, offer to pay, or agree to pay, either directly or indirectly, any fee, commission, compensation, gift, gratuity, or other thing of value of any kind to any State officer or employee or special State officer or employee, as defined by N.J.S.A. 52:13D-13b. and e., in the Department of the Treasury or any other agency with which such vendor transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by N.J.S.A. 52:13D-13i., of any such officer or employee, or any partnership, firm, or corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of N.J.S.A. 52:13D-13g.
- (b) The solicitation of any fee, commission, compensation, gift, gratuity or other thing of value by any State officer or employee or special State officer or employee from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission on Ethical Standards.

- (c) No vendor may, directly or indirectly, undertake any private business, commercial or entrepreneurial relationship with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee or special State officer or employee having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in which he has an interest within the meaning of N.J.S.A. 52:13D-13g. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.
- (d) No vendor shall influence, or attempt to influence or cause to be influenced, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment of said officer or employee.
- (e) No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee or special State officer or employee to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.
- (f) The provisions cited above in paragraph 3a. through 3e. shall not be construed to prohibit a State officer or employee or special State officer or employee from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive Commission on Ethical Standards may promulgate under paragraph 3c.



**SECTION XVI**  
**OPS No. A3581**  
**Retaining Wall Listing – (North)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 80.70NO	SNO MP 80.70	Mainline	80.70	80.75	254	MSE
2	MP 80.70SO	NSO MP 80.70	Mainline	80.70	80.47	1214	Reinforced Concrete
3	MP 81.15SO	NSO MP 81.15	Mainline	81.15	81.12	160	Reinforced Concrete
4	MP 81.20NO	SNO MP 81.20	Mainline	81.20	81.38	911	Reinforced Concrete
5	MP 81.39NO	SNO MP 81.39	Mainline	81.39	81.55	822	MSE
6	MP 81.88NO	SNO MP 81.88	Mainline	81.88	82.02	728	Reinforced Concrete
7	MP 81.90SO	NSO MP 81.90	Mainline	81.90	81.81	475	Reinforced Concrete
8	MP 82.09NO	SNO MP 82.09	Mainline	82.09	82.13	265	Reinforced Concrete
9	MP 82.17NO	SNO MP 82.17	Mainline	82.17	82.32	798	Reinforced Concrete
10	MP 82.20SO	NSO MP 82.20	Mainline	82.20	82.00	1056	Reinforced Concrete
11	MP 82.32SO	NSO MP 82.32	Mainline	82.32	82.2	646	Reinforced Concrete
12	MP 83.23SIT	INT 9 Ramp SIT MP 83.23	Ramp	83.23	83.25	123	Reinforced Concrete
13	MP 83.30SE	INT 9 Ramp TSI MP 83.30SE	Ramp	83.30	83.20	528	Reinforced Concrete
14	MP 83.30SW	INT 9 Ramp TSI MP 83.30SW	Ramp	83.30	83.22	422	Reinforced Concrete
15	MP 83.35TE	INT 9 Ramp TE MP 83.35	Local	83.35	83.30	274	Reinforced Concrete
16	MP 83.39TNI	INT 9 Ramp TNI MP 83.39	Ramp	83.39	83.41	106	Reinforced Concrete
17	MP 83.77NIT	INT 9 Ramp NIT MP 83.77	Ramp	83.77	83.75	106	Reinforced Concrete
18	MP 84.88NO	SNO MP 84.88	Mainline	84.88	84.89	50	Steel Sheeting
19	MP 87.94NW	INT 10 Ramp SIT MP 87.94NW	Ramp	87.94	88.01	264	Reinforced Concrete
20	MP 87.96SW	INT 10 Ramp SIT MP 87.96SW	Ramp	87.96	87.99	264	Reinforced Concrete
21	MP 88.14SW	INT 10 Ramp TNI MP 88.14SW	Ramp	88.14	88.22	367	Reinforced Concrete
22	MP 88.15NW	INT 10 Ramp TNI MP 88.15NW	Ramp	88.15	88.19	264	Reinforced Concrete
23	MP 88.26NE	INT 10 Ramp TSI MP 88.26NE	Ramp	88.26	88.22	211	Reinforced Concrete
24	MP 88.29SE	INT 10 RAMP TSI MP 88.29SE	Ramp	88.29	88.24	264	Reinforced Concrete
25	MP 88.40NE	INT 10 Ramp NIT MP 88.40NE	Ramp	88.40	88.36	210	Reinforced Concrete
26	MP 88.46SE	INT 10 Ramp NIT MP 88.46SE	Ramp	88.46	88.35	611	Reinforced Concrete
27	MP 89.08NO	SNO MP 89.08	Mainline	89.08	89.10	56	Steel Sheeting
28	MP 89.25NO	SNO MP 89.25	Mainline	89.25	89.30	259	Reinforced Concrete
29	MP 90.18NO	SNO MP 90.18	Mainline	90.18	90.22	216	Stone Masonry
30	MP 90.28SO	NSO MP 90.28	Mainline	90.28	90.26	160	Reinforced Concrete
31	MP 91.88NO	SNO MP 91.88	Mainline	91.88	91.99	538	Reinforced Concrete
32	MP 92.57SW	SA10N Ramp SISA MP 92.57SW	Ramp	92.57	92.62	300	Reinforced Concrete
33	MP 92.60SE	SA10N Ramp SISA MP 92.60SE	Ramp	92.60	92.62	90	Reinforced Concrete
34	MP 92.70NE	SA10N Ramp SISA MP 92.70NE	Ramp	92.70	92.70	451	MSE
35	MP 92.71NW	SA10N Ramp SISA MP 92.71NW	Ramp	92.71	92.72	86	Reinforced Concrete
36	MP 93.12NISA	SA10N Ramp NISA MP 93.12	Ramp	93.12	93.11	81	Reinforced Concrete
37	MP 93.19NE	SA10N Ramp SANI MP 93.19NE	Ramp	93.19	93.28	498	Reinforced Concrete
38	MP 93.19NW	SA10N Ramp SANI MP 93.19NW	Ramp	93.19	93.28	468	Reinforced Concrete
39	MP 93.90SO	NSO MP 93.90	Mainline	93.90	93.80	533	Reinforced Concrete
40	MP 95.77W	INT 12 Ramp SIT MP 95.77W	Ramp	95.77	95.84	414	Reinforced Concrete

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**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
41	MP 95.78W	INT 12 Ramp SOT MP 95.78W	Ramp	95.78	95.88	545	Reinforced Concrete
42	MP 95.80E	INT 12 Ramp SIT MP 95.80E	Ramp	95.80	95.83	178	Reinforced Concrete
43	MP 95.84E	INT 12 Ramp SOT MP 95.84E	Ramp	95.84	95.87	128	Reinforced Concrete
44	MP 95.95E	INT 12 Ramp TNI MP 95.95E	Ramp	95.95	96.02	359	Reinforced Concrete
45	MP 95.95W	INT 12 Ramp TNI MP 95.95W	Ramp	95.95	96.00	279	Reinforced Concrete
46	MP 95.98E	INT 12 Ramp TNO MP 95.98E	Ramp	95.98	96.12	734	Reinforced Concrete
47	MP 95.98W	INT 12 Ramp TNO MP 95.98W	Ramp	95.98	96.05	364	Reinforced Concrete
48	MP 96.25NO	SNO MP 96.25	Mainline	96.25	96.31	292	Reinforced Concrete
49	MP 96.38NO	SNO MP 96.38	Mainline	96.38	96.42	410	Reinforced Concrete
50	MP 96.55SO	NSO MP 96.55	Mainline	96.55	96.48	400	Reinforced Concrete
51	MP 98.47SO	NSO MP 98.47	Mainline	98.47	98.38	486	Reinforced Concrete
52	MP 97.11NO	U-Turn SNO MP 97.11	Service	97.11	97.18	375	Reinforced Concrete
53	MP 99.08SE	INT 13 Ramp TSO MP 99.08SE	Ramp	99.08	99.01	360	Reinforced Concrete
54	MP 99.08SW	INT 13 Ramp TSO MP 99.08SW	Ramp	99.08	98.83	1298	Reinforced Concrete
55	MP 99.28ST	INT 13 Ramp ST MP 99.28	Ramp	99.28	99.20	423	Reinforced Concrete
56	MP 99.41NE	INT 13 Ramp TN MP 99.41NE	Ramp	99.41	99.48	372	Reinforced Concrete
57	MP 99.41NW	INT 13 Ramp TN MP 99.41NW	Ramp	99.41	99.48	378	Reinforced Concrete
58	MP 99.56TN	INT 13 Ramp TN MP 99.56	Ramp	99.56	99.58	120	Reinforced Concrete
59	MP 99.59NT	INT 13 Ramp NT MP 99.59	Ramp	99.59	99.55	214	Reinforced Concrete
60	MP 99.79NE	INT 13 Ramp TNO MP 99.79NE	Ramp	99.79	99.80	60	Reinforced Concrete
61	MP 99.79NW	INT 13 Ramp TNO MP 99.79NW	Ramp	99.79	99.80	75	Reinforced Concrete
62	MP 101.11NO	SNO MP 101.11	Mainline	101.11	101.12	100	Reinforced Concrete
63	MP 101.19SO	NSO MP 101.19	Mainline	101.19	101.10	478	Reinforced Concrete
64	MP 101.20SO	NSO MP 101.20	Mainline	101.20	101.11	450	Crib Wall
65	MP 101.38SW	INT 13A Ramp SIT MP 101.38SW	Ramp	101.38	101.40	82	Reinforced Concrete
66	MP 101.42SO	NSO MP 101.42	Mainline	101.42	101.22	1032	Reinforced Concrete
67	MP 101.49TSI	INT 13A Ramp TSI MP 101.49	Ramp	101.49	101.42	430	Reinforced Concrete
68	MP 101.54TN	INT 13A Ramp TN MP 101.54	Ramp	101.54	101.54	75	Reinforced Concrete
69	MP 101.57NE	INT 13A Ramp SIT MP 101.57NE	Ramp	101.57	101.60	144	Reinforced Concrete
70	MP 101.78NIT	INT 13A Ramp NIT MP 101.78	Ramp	101.78	101.71	444	Reinforced Concrete
71	MP 102.10SO	NSO MP 102.10	Mainline	102.10	102.02	463	Steel Sheeting
72	MP 104.00	INT 14 Ramp MP 104.00	Ramp	104.00	104.76	3996	Reinforced Concrete
73	MP 104.74TN	INT 14 Ramp TN MP 104.74	Ramp	104.74	104.78	210	Reinforced Concrete
74	MP 104.88HN	INT 14 Ramp HN MP 104.88	Ramp	104.88	104.91	170	Reinforced Concrete
75	MP 104.90HLT	INT 14 Ramp HLT MP 104.90	Ramp	104.90	105.10	608	Reinforced Concrete
76	MP 104.98TN	INT 14 Ramp TN-14 MP 104.98	Ramp	104.98	105.00	106	Reinforced Concrete
77	MP 105.37TN	Ramp TN-14 MP 105.37	Mainline	105.37	105.55	884	MSE
78	MP 105.60TN	Ramp TN-14 MP 105.60	Mainline	105.60	105.81	1013	MSE
79	MP W105.86NO	Ramp SNO-W MP W105.86	Ramp	W105.86	W105.92	317	Reinforced Concrete
80	MP W105.83TN	Ramp TN-14 MP W105.83	Ramp	W105.83	W105.98	820	MSE
81	MP W105.95NO	Ramp SNO-W MP W105.95	Ramp	W105.95	W106.10	772	MSE

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No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
82	MP W105.98NO	Ramp SNO-W MP W105.98	Ramp	W105.98	W106.10	648	Reinforced Concrete
83	MP W106.08NO	Ramp SNO-W MP W106.08	Ramp	W106.08	W106.10	120	Reinforced Concrete
84	MP E106.21SNE	SNE MP E106.21	Mainline	E106.21	E106.58	1922	Steel Sheeting
85	MP W106.37NET	Ramp NET-14 MP W106.37	Ramp	W106.37	W106.43	316	MSE
86	MP W106.60NSW	NSW MP W106.60	Mainline	W106.60	W106.53	370	MSE
87	MP E106.58SNE	SNE MP E106.58	Mainline	E106.58	E106.65	215	Steel Sheeting
88	MP E106.59SNE	SNE MP E106.59	Mainline	E106.59	E106.66	370	Crib Wall
89	MP W106.67NSW	NSW MP W106.67	Mainline	W106.67	W106.61	330	Crib Wall
90	MP E106.88SET	INT 15E Ramp SET MP E106.88	Ramp	E106.88	E106.88	400	Reinforced Concrete
91	MP W106.97TNW	INT 15E Ramp TNW MP W106.97	Ramp	W106.97	W106.99	100	Reinforced Concrete
92	MP E107.10NET	INT 15E Ramp NET MP E107.10	Ramp	E107.10	E107.05	270	Reinforced Concrete
93	MP E110.35SET	INT 15X Ramp SET MP E110.35	Ramp	E110.35	E110.65	2216	MSE
94	MP E110.67TNE	INT 15X Ramp TNE MP E110.67	Ramp	E110.67	E110.84	900	Reinforced Concrete
95	MP E110.77TNE	INT 15X Ramp TNE MP E110.77	Ramp	E110.77	E110.80	180	Reinforced Concrete
96	MP E110.67TSE	INT 15X Ramp TSE MP E110.67	Ramp	E110.67	E110.50	530	Reinforced Concrete
97	MP E110.79NET	Ramp NET MP E110.79	Ramp	E110.79	E110.76	200	Reinforced Concrete
98	MP E110.81SE	INT 15X Ramp WT MP E110.81SE	Ramp	E110.81	E110.81	450	MSE
99	MP E111.04SE	Seaview Drive MP E111.04	Local	E111.04	E111.04	1400	MSE/Reinforced Concrete
100	MP E110.81SW	INT 15X Ramp WT MP E110.81SW	Ramp	E110.81	E110.81	825	MSE
101	MP E110.81WT	INT 15X Toll Plaza Ramp WT MP E110.81	Ramp	E110.81	E110.81	80	MSE
102	MP E110.82NW	INT 15X Ramp TW MP E110.82NW	Ramp	E110.82	E110.82	1050	MSE
103	MP E110.81TE	INT 15X Ramp TE MP E110.81	Ramp	E110.81	E110.81	525	MSE
104	MP E110.82NE	INT 15X Ramp ET MP E110.82NE	Ramp	E110.82	E110.82	1200	MSE
105	MP E110.87SNE	SNE MP E110.87	Mainline	E110.87	E111.03	1000	Reinforced Concrete
106	MP E111.00NSE	NSE MP E111.00	Mainline	E111.00	E110.90	550	Reinforced Concrete
107	MP E112.10NSE	NSE MP E112.10	Mainline	E112.10	E112.10	330	Reinforced Concrete
108	MP E112.20SNE	SNE MP E112.20	Mainline	E112.20	E112.21	60	Crib Wall
109	MP 112.95NXBL	INT 16E Ramp XBL MP 112.95N	Ramp	112.95	112.95	140	Reinforced Concrete
110	MP 112.95XBL	INT 16E Ramp XBL MP 112.95	Ramp	112.95	112.95	220	Reinforced Concrete
111	MP 116.90NSW	Ramp NSW-95 MP 116.90	Ramp	116.90	117.00	200	Reinforced Concrete
112	MP 117.70SN	SN95 MP 117.70	Mainline	117.70	117.75	280	Reinforced Concrete
113	MP 117.75SN	SN80 MP 117.75	Mainline	117.75	117.840	500	Reinforced Concrete
114	MP 118.87NS	Ramp NS80X MP 118.87	Ramp	118.87	118.820	250	Reinforced Concrete
115	MP 121.45NE	RT 4 MP 121.45NE	Local	121.45	121.45	50	Reinforced Concrete
116	MP 121.52WSL	INT 72 Ramp WSL MP 121.52	Ramp	121.52	121.65	380	Reinforced Concrete
117	MP 121.54SN	SN95L MP 121.54	Mainline	121.54	121.61	370	Reinforced Concrete
118	MP 121.60NE	INT 72 Ramp WNX MP 121.60NE	Ramp	121.60	121.66	300	Reinforced Concrete
119	MP 121.60NW	INT 72 Ramp WNX MP 121.60NW	Ramp	121.60	121.66	300	Reinforced Concrete
120	MP 121.61ESL	INT 72 Ramp ESL MP 121.61	Ramp	121.61	121.53	420	Crib Wall
121	MP 121.64ESL	INT 72 Ramp ESL MP 121.64	Ramp	121.64	121.58	325	Reinforced Concrete

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**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
122	MP 121.66SN	SN95L MP 121.66	Mainline	121.66	121.74	420	Reinforced Concrete
123	MP 121.68WNL	INT 72 Ramp WNL MP 121.68	Ramp	121.68	121.82	740	Reinforced Concrete
124	MP 121.74WSL	INT 72 Ramp WSL MP 121.74	Ramp	121.74	121.61	400	Reinforced Concrete
125	MP 121.75NLW	INT 72A Ramp NLW MP 121.75	Ramp	121.75	121.79	200	Reinforced Concrete
126	MP 121.79NLW	INT 72B Ramp NLW MP 121.79	Ramp	121.79	121.77	80	Reinforced Concrete
127	MP 121.82NWX	INT 72 Ramp NWX MP 121.82	Ramp	121.82	121.88	300	Reinforced Concrete
128	MP 121.95WSL	INT 72 Ramp WSL MP 121.95	Ramp	121.95	121.93	100	Reinforced Concrete
129	MP N3.17HEW	HEW MP N3.17	Mainline	N3.17	N3.01	810	MSE
130	MP N3.39NE	Garfield Avenue MP N3.39	Local	N3.39	N3.39	290	Reinforced Concrete
131	MP N3.53HET	INT 14A Ramp HET MP N3.53	Ramp	N3.53	N3.53	110	Reinforced Concrete
132	MP N6.06HWE	HWE MP N6.06	Mainline	N6.06	N6.08	120	Reinforced Concrete
133	MP N8.22HWE	HWE MP N8.22	Mainline	N8.22	N8.25	150	Reinforced Concrete
134	MP N8.25HWE	HWE MP N8.25	Mainline	N8.25	N8.20	250	Reinforced Concrete

**SECTION XVI**  
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**Retaining Wall Listing – (North)**  
**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 140.53	Golf Dr. MP 140.53	Local	140.53	140.51	120	Reinforced Concrete
2	MP 140.55	Golf Dr. MP 140.55	Local	140.55	140.53	120	Reinforced Concrete
3	MP 142.81SW	INT 142 Ramp SE MP 142.81SW	Ramp	142.81	142.81	295	MSE
4	MP 143.04NW	INT 142 Ramp SE MP 143.04NW	Ramp	143.04	142.99	145	MSE
5	MP 143.04NE	INT 142 Ramp SE MP 143.04NE	Ramp	143.04	142.99	285	MSE
6	MP 142.88SE	INT 142 Ramp NW-D MP 142.88SE	Ramp	142.88	142.99	603	MSE
7	MP 143.14NW	INT 142 Ramp NW-D MP 143.14NW	Ramp	143.14	143.14	324	MSE
8	MP 142.96SWC	INT 142 Ramp SW-C MP 142.96	Ramp	142.96	143.02	94	MSE
9	MP 142.88SW	INT 142 Ramp B MP 142.88SW	Ramp	142.88	142.90	130	MSE
10	MP 142.96NW	INT 142 Ramp B MP 142.96NW	Ramp	142.96	143.00	144	MSE
11	MP 142.96NE	INT 142 Ramp B MP 142.96NE	Ramp	142.96	143.02	218	MSE
12	MP 143.18SE	INT 142 Ramp SW-C MP 143.18SE	Ramp	143.18	143.17	75	MSE
13	MP 143.24SWC	INT 142 Ramp SW-C MP 143.24	Ramp	143.24	143.22	75	MSE
14	MP 143.43	Union Pl. MP 143.43	Local	143.43	143.41	134	Reinforced Concrete
15	MP 143.55S	SB MP 143.55	Mainline	143.55	143.45	216	Reinforced Concrete
16	MP 143.69	Krotik Pl. MP 143.69	Local	143.69	143.48	750	Reinforced Concrete
17	MP 143.67S	SB MP 143.67	Mainline	143.67	143.60	279	Reinforced Concrete
18	MP 144.10SBX	INT 143B Ramp SBX MP 144.10	Ramp	144.10	144.04	306	Reinforced Concrete
19	MP 144.50	Ball St. MP 144.50	Local	144.50	144.62	540	Reinforced Concrete
20	MP 144.75	Washington Ave. MP 144.75	Local	144.75	144.69	345	Reinforced Concrete
21	MP 144.80	Route 603 MP 144.80	Local	144.80	144.82	112	Reinforced Concrete

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**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
22	MP 144.85	Eastern Pkwy MP 144.85	Local	144.85	145.00	750	Reinforced Concrete
23	MP 144.87S	SB MP 144.87	Mainline	144.87	144.78	450	Reinforced Concrete
24	MP 145.00	Eastern Pkwy MP 145.00	Local	145.00	145.08	435	Reinforced Concrete
25	MP 145.42	Eastern Pkwy MP 145.42	Local	145.42	145.50	443	Reinforced Concrete
26	MP 145.42	Western Pkwy MP 145.42	Local	145.42	145.34	443	Reinforced Concrete
27	MP 145.52	Eastern Pkwy MP 145.52	Local	145.52	145.60	443	Reinforced Concrete
28	MP 145.57	Western Pkwy MP 145.57	Local	145.57	145.45	660	Reinforced Concrete
29	MP 146.04S	SB MP 146.04	Mainline	146.04	146.02	115	Steel Sheeting
30	MP 146.05N	NB MP 146.05	Mainline	146.05	146.06	72	Steel Sheeting
31	MP 146.19S	SB MP 146.19	Mainline	146.19	146.08	559	Reinforced Concrete
32	MP 146.20N	NB MP 146.20	Mainline	146.20	146.39	893	Reinforced Concrete
33	MP 146.67	Whittlesey Ave MP 146.67	Local	146.67	146.58	514	Reinforced Concrete
34	MP 146.80	S. Oraton Pkwy MP 146.80	Local	146.80	146.89	442	Reinforced Concrete
35	MP 146.80	S. Oraton Pkwy MP 146.80	Local	146.80	146.67	701	Reinforced Concrete
36	MP 146.85S	SB MP 146.85	Mainline	146.85	146.79	403	Reinforced Concrete
37	MP 146.88N	NB MP 146.88	Mainline	146.88	146.93	240	Reinforced Concrete
38	MP 147.00	Winthrop Terrace MP 147.00	Local	147.00	147.00	841	Reinforced Concrete
39	MP 147.01SBX	INT 145 Ramp SBX MP 147.01	Ramp	147.01	146.96	300	Reinforced Concrete
40	MP 147.10NBE	INT 145 Ramp NBE MP 147.10	Ramp	147.05	147.11	240	Reinforced Concrete
41	MP 147.05	S. Oraton Pkwy MP 147.05	Local	147.05	146.97	473	Reinforced Concrete
42	MP 147.10	S. Oraton Pkwy MP 147.10	Local	147.06	147.14	450	Reinforced Concrete
43	MP 147.09	N. Oraton Pkwy MP 147.09	Local	147.09	147.05	210	Reinforced Concrete
44	MP 147.37	N. Oraton Pkwy MP 147.37	Local	147.37	147.22	786	Reinforced Concrete
45	MP 147.47	N. Oraton Pkwy MP 147.47	Local	147.47	147.50	227	Reinforced Concrete
46	MP 147.50	N. Oraton Pkwy MP 147.50	Local	147.50	147.70	1309	Reinforced Concrete
47	MP 147.64	Parkway Dr. MP 147.64	Local	147.64	147.40	1250	Reinforced Concrete
48	MP 147.7	Parkway Dr. MP 147.7	Local	147.70	147.66	189	Reinforced Concrete
49	MP 147.79	Parkway Dr. MP 147.79	Local	147.79	147.85	364	Reinforced Concrete
50	MP 147.82	Parkway Dr. MP 147.82	Local	147.82	147.76	333	Reinforced Concrete
51	MP 147.87	Parkway Dr. MP 147.87	Local	147.87	147.86	96	Reinforced Concrete
52	MP 148.06	Parkway Dr. MP 148.06	Local	148.06	148.04	130	Reinforced Concrete
53	MP 148.09	Parkway Dr. MP 148.09	Local	148.09	148.07	103	Reinforced Concrete
54	MP 148.65N	NB MP 148.65	Mainline	148.65	148.70	200	Reinforced Concrete
55	MP 148.77S	SB MP 148.77	Mainline	148.77	148.70	330	Reinforced Concrete
56	MP 148.79N	NB MP 148.79	Mainline	148.79	148.86	403	Reinforced Concrete
57	MP 148.80NBX	INT 148 Ramp NBX MP 148.80	Ramp	148.80	148.90	480	Reinforced Concrete
58	MP 148.81S	SB MP 148.81	Mainline	148.81	148.78	183	Reinforced Concrete
59	MP 148.88S	SB MP 148.88	Mainline	148.88	148.80	426	Reinforced Concrete
60	MP 148.98NBX	INT 148 Ramp NBX MP 148.98	Ramp	148.98	149.00	97	Reinforced Concrete
61	MP 149.03NBX	INT 148 Ramp NBX MP 149.03	Ramp	149.03	149.20	907	Reinforced Concrete
62	MP 149.04N	NB MP 149.04	Mainline	149.04	149.19	809	Reinforced Concrete

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**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
63	MP 149.05S	SB MP 149.05	Mainline	149.05	148.90	793	Reinforced Concrete
64	MP 149.12S	SB MP 149.12	Mainline	149.12	149.06	300	Reinforced Concrete
65	MP 149.34N	NB MP 149.34	Mainline	149.34	149.50	843	Reinforced Concrete
66	MP 149.40S	SB MP 149.40	Mainline	149.40	149.38	83	Reinforced Concrete
67	MP 149.42	John F Kennedy Dr. S MP 149.42	Local	149.42	149.40	105	Reinforced Concrete
68	MP 149.51	John F Kennedy Dr. S MP 149.51	Local	149.51	149.51	40	Reinforced Concrete
69	MP 149.56S	SB MP 149.56	Mainline	149.56	149.53	161	Reinforced Concrete
70	MP 149.60N	NB MP 149.60	Mainline	149.60	149.60	52	Reinforced Concrete
71	MP 149.61N	NB MP 149.61	Mainline	149.61	149.69	396	Reinforced Concrete
72	MP 149.62	John F Kennedy Dr. S MP 149.62	Local	149.62	149.60	120	Reinforced Concrete
73	MP 149.71	John F Kennedy Dr. N MP 149.71	Local	149.71	149.75	233	Reinforced Concrete
74	MP 149.73SBE	INT 148 Ramp SBE MP 149.73	Ramp	149.73	149.71	95	Reinforced Concrete
75	MP 149.76	John F Kennedy Dr. N MP 149.76	Local	149.76	149.81	247	Reinforced Concrete
76	MP 149.88	Hickory St. MP 149.88	Local	149.88	149.90	124	Reinforced Concrete
77	MP 150.01N	NB MP 150.01	Mainline	150.01	150.06	210	Reinforced Concrete
78	MP 150.16N	NB MP 150.16	Mainline	150.16	150.20	198	Reinforced Concrete
79	MP 150.53S	SB MP 150.53	Mainline	150.53	150.51	120	Reinforced Concrete
80	MP 152.80N	NB MP 152.80	Mainline	152.80	152.86	430	Reinforced Concrete
81	MP 152.87N	NB MP 152.87	Mainline	152.87	152.92	330	Reinforced Concrete
82	MP 154.21S	SB MP 154.21	Mainline	154.21	154.17	208	Reinforced Concrete
83	MP 154.30S	SB MP 154.30	Mainline	154.30	154.21	568	Reinforced Concrete
84	MP 155.66SBE	INT 154 Ramp SBE MP 155.66	Ramp	155.66	155.59	360	Reinforced Concrete

**SECTION XVII**  
**OPS No. A3581**  
**Noise Barrier Listing – (North)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 80.10NO	SNO MP 80.10	Mainline	80.10	80.41	1666	Post and Panel
2	MP 80.42SO	NSO MP 80.42	Mainline	80.42	80.05	1985	Post and Panel
3	MP 80.46SO	NSO MP 80.46	Mainline	80.46	80.41	272	Post and Panel
4	MP 80.76SO	NSO MP 80.76	Mainline	80.76	80.47	1531	Post and Panel
5	MP 81.10SO	NSO MP 81.10	Mainline	81.10	81.00	528	Post and Panel
6	MP 81.59NO	SNO MP 81.59	Mainline	81.59	81.79	1064	Post and Panel
7	MP 81.78NO	SNO MP 81.78	Mainline	81.78	82.14	1938	Post and Panel
8	MP 81.83SO	NSO MP 81.83	Mainline	81.83	81.65	751	Post and Panel
9	MP 82.16NO	SNO MP 82.16	Mainline	82.16	82.35	977	Post and Panel
10	MP 82.19SO	NSO MP 82.19	Mainline	82.19	81.82	1968	Post and Panel
11	MP 82.34NO	SNO MP 82.34	Mainline	82.34	82.78	2327	Post and Panel
12	MP 82.44SO	NSO MP 82.44	Mainline	82.44	82.20	1265	Post and Panel
13	MP 82.80SO	NSO MP 82.80	Mainline	82.80	82.43	1988	Post and Panel
14	MP 82.98SO	NSO MP 82.98	Mainline	82.98	82.79	1035	Post and Panel
15	MP 83.21TE	INT 9 Ramp TE MP 83.21	Ramp	83.21	83.08	675	Post and Panel
16	MP 83.25TE	INT 9 Ramp TE MP 83.25	Ramp	83.25	83.22	135	Post and Panel
17	MP 83.30TE	INT 9 Ramp TE MP 83.30	Ramp	83.30	83.26	435	Post and Panel
18	MP 83.37TE	INT 9 Ramp TE MP 83.37	Ramp	83.37	83.21	270	Reinforced Concrete
19	MP 83.76NOT	INT 9 Ramp NOT MP 83.76	Ramp	83.76	83.58	930	Post and Panel
20	MP 84.09SO	NSO MP 84.09	Mainline	84.09	83.75	1800	Post and Panel
21	MP 85.55SO	NSO MP 85.55	Mainline	85.55	85.25	1600	Post and Panel
22	MP 85.77SO	NSO MP 85.77	Mainline	85.77	85.70	370	Post and Panel
23	MP 85.93NO	SNO MP 85.93	Mainline	85.93	86.37	2321	Post and Panel
24	MP 86.36NO	SNO MP 86.36	Mainline	86.36	86.59	1220	Post and Panel
25	MP 86.55SO	NSO MP 86.55	Mainline	86.55	86.19	1900	Post and Panel
26	MP 86.62NO	SNO MP 86.62	Mainline	86.62	86.93	1648	Post and Panel
27	MP 87.12NO	SNO MP 87.12	Mainline	87.12	87.56	2320	Post and Panel
28	MP 87.55NO	SNO MP 87.55	Mainline	87.55	87.65	521	Post and Panel
29	MP 87.60SO	NSO MP 87.60	Mainline	87.60	87.28	1733	Post and Panel
30	MP 87.87SO	NSO MP 87.87	Mainline	87.87	87.59	1480	Post and Panel
31	MP 88.78NO	SNO MP 88.78	Mainline	88.78	88.99	1098	Post and Panel
32	MP 88.97NO	SNO MP 88.97	Mainline	88.97	89.16	991	Post and Panel
33	MP 89.00SO	NSO MP 89.00	Mainline	89.00	88.61	2141	Post and Panel
34	MP 89.12SO	NSO MP 89.12	Mainline	89.12	88.99	676	Post and Panel
35	MP 89.30NO	SNO MP 89.30	Mainline	89.30	89.70	2112	Post and Panel
36	MP 89.37SO	NSO MP 89.37	Mainline	89.37	89.16	1105	Post and Panel
37	MP 89.42SO	NSO MP 89.42	Mainline	89.42	89.29	648	Post and Panel
38	MP 89.71NO	SNO MP 89.71	Mainline	89.71	90.18	2707	Post and Panel
39	MP 89.71SO	NSO MP 89.71	Mainline	89.71	89.42	1482	Post and Panel
40	MP 90.10SO	NSO MP 90.10	Mainline	90.1	89.72	2000	Post and Panel

**SECTION XVII**  
**OPS No. A3581**  
**Noise Barrier Listing – (North)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
41	MP 90.48SO	NSO MP 90.48	Mainline	90.48	90.29	900	Post and Panel
42	MP 91.36NO	SNO MP 91.36	Mainline	91.36	91.58	1555	Post and Panel
43	MP 91.57NO	SNO MP 91.57	Mainline	91.57	91.84	1447	Post and Panel
44	MP 91.83NO	SNO MP 91.83	Mainline	91.83	91.89	287	Post and Panel
45	MP 91.47SO	NSO MP 91.47	Mainline	91.47	91.40	571	Post and Panel
46	MP 91.83SO	NSO MP 91.83	Mainline	91.83	91.47	1734	Post and Panel
47	MP 91.89SO	NSO MP 91.89	Mainline	91.89	91.82	350	Post and Panel
48	MP 91.90NO	SNO MP 91.90	Mainline	91.90	92.10	901	Post and Panel
49	MP 92.06SO	NSO MP 92.06	Mainline	92.06	91.90	870	Post and Panel
50	MP 92.38SO	NSO MP 92.38	Mainline	92.38	92.12	1500	Post and Panel
51	MP 92.48SO	NSO MP 92.48	Mainline	92.48	92.37	592	Post and Panel
52	MP 92.90SANO	SA10N Ramp SANO MP 92.90	Ramp	92.90	93.31	2381	Post and Panel
53	MP 92.65NISA	SA10N Ramp NISA MP 92.65	Ramp	92.65	92.9	1500	Post and Panel
54	MP 93.30SO	NSO MP 93.30	Mainline	93.30	93.27	167	Post and Panel
55	MP 93.42SO	NSO MP 93.42	Mainline	93.42	93.29	684	Post and Panel
56	MP 93.51NO	SNO MP 93.51	Mainline	93.51	93.70	980	Post and Panel
57	MP 93.69NO	SNO MP 93.69	Mainline	93.69	93.10	1332	Post and Panel
58	MP 93.63SO	NSO MP 93.63	Mainline	93.63	93.41	1141	Post and Panel
59	MP 94.40NO	SNO MP 94.40	Mainline	94.4	94.71	1612	Post and Panel
60	MP 94.70NO	SNO MP 94.70	Mainline	94.7	94.89	1006	Post and Panel
61	MP 94.88NO	SNO MP 94.88	Mainline	94.88	94.95	1000	Post and Panel
62	MP 94.94NO	SNO MP 94.94	Mainline	94.94	95.13	1020	Post and Panel
63	MP 95.12NO	SNO MP 95.12	Mainline	95.12	95.70	2440	Post and Panel
64	MP 95.86SO	NSO MP 95.86	Mainline	95.86	95.78	607	Post and Panel
65	MP 96.02SO	NSO MP 96.02	Mainline	96.02	95.86	917	Post and Panel
66	MP 96.09SO	NSO MP 96.09	Mainline	96.09	96.01	490	Post and Panel
67	MP 96.14SO	NSO MP 96.14	Mainline	96.14	96.08	350	Post and Panel
68	MP 99.89NO	SNO MP 99.89	Mainline	99.89	99.95	345	Post and Panel
69	MP 99.94NO	SNO MP 99.94	Mainline	99.94	100.01	350	Post and Panel
70	MP 100.00NO	SNO MP 100.00	Mainline	100.00	100.91	5000	Post and Panel
71	MP 99.96SO	NSO MP 99.96	Mainline	99.96	99.81	860	Post and Panel
72	MP 100.62SO	NSO MP 100.62	Mainline	100.62	99.95	3537	Post and Panel
73	MP 101.12NO	SNO MP 101.12	Mainline	101.12	101.38	1404	Post and Panel
74	MP E112.00NSE	NSE MP 112.00	Mainline	E112.00	E111.80	1050	Post and Panel
75	MP 118.60NS	NS80 MP 118.60	Mainline	118.60	117.85	4000	Post and Panel
76	MP 120.38SN	SN95L MP 120.38	Mainline	120.38	120.60	1250	Post and Panel
77	MP 120.60SN	SN95L MP 120.60	Mainline	120.60	120.90	1580	Post and Panel
78	MP 120.90SN	SN95L MP 120.90	Ramp	120.90	121.00	720	Post and Panel
79	MP 120.80NS	NS95L MP 120.80	Mainline	120.80	120.28	2750	Post and Panel
80	MP 121.25NS	NS95L MP 121.25	Mainline	121.25	120.8	2400	Post and Panel



**SECTION XVII**  
**OPS No. A3581**  
**Noise Barrier Listing – (North)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
81	MP 121.01SN	SN95L MP 121.01	Mainline	121.01	121.20	1006	Post and Panel
82	MP N2.91HWE	HWE MP N2.91	Mainline	N2.91	N3.38	2600	Post and Panel

**SECTION XVII**  
**OPS No. A3581**  
**Noise Barrier Listing – (North)**  
**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 141.15S	SB MP 141.15	Mainline	141.15	141.09	300	Post and Panel
2	MP 143.15SWC	INT 142 Ramp SW-C MP 143.15	Ramp	143.15	142.88	2578	Post and Panel
3	MP 143.30S	SB MP 143.30	Mainline	143.30	143.16	750	Post and Panel

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 49.62NO	SNO MP 49.62	Mainline	49.62	49.72	531	MSE
2	MP 49.74NO	SNO MP 49.74	Mainline	49.74	49.78	237	MSE
3	MP 50.21NO	SNO MP 50.21	Mainline	50.21	50.40	1003	MSE
4	MP 50.41SO	NSO MP 50.41	Mainline	50.41	50.15	1373	MSE
5	MP 50.45NO	SNO MP 50.45	Mainline	50.45	50.69	1270	MSE
6	MP 50.68SOT	INT 6 Ramp SOT MP 50.68	Ramp	50.68	50.79	581	MSE
7	MP 50.69SIT	INT 6 Ramp SIT MP 50.69	Ramp	50.69	50.80	581	MSE
8	MP 50.70SIT	INT 6 Ramp SIT MP 50.70	Ramp	50.70	50.80	528	MSE
9	MP 50.72SO	NSO MP 50.72	Mainline	50.72	50.44	1461	MSE
10	MP 51.22TNO	INT 6 Ramp TNO MP 51.22	Ramp	51.22	51.35	686	MSE
11	MP 51.29NE	INT 6 Ramp TNI MP 51.29NE	Ramp	51.29	51.40	581	MSE
12	MP 51.29NW	INT 6 Ramp TNI MP 51.29NW	Ramp	51.29	51.40	581	MSE
13	MP 51.32NOT	INT 6 Ramp NOT MP 51.32	Ramp	51.32	51.13	1003	MSE
14	MP 51.32NIT	INT 6 Ramp NIT MP 51.32	Ramp	51.32	51.22	528	MSE
15	MP 51.40NOT	INT 6 Ramp NOT MP 51.40	Ramp	51.40	51.18	1162	MSE
16	MP 51.43NIT	INT 6 Ramp NIT MP 51.43	Ramp	51.43	51.22	1106	MSE
17	MP 51.67NO	SNO MP 51.67	Mainline	51.67	51.90	1214	MSE
18	MP 51.90SO	NSO MP 51.90	Mainline	51.90	51.72	956	MSE
19	MP 52.09NO	SNO MP 52.09	Mainline	52.09	52.55	845	MSE
20	MP 52.10NO	SNO MP 52.10	Mainline	52.10	52.16	319	Gabion
21	MP 52.72NO	SNO MP 52.72	Mainline	52.72	52.95	1214	MSE
22	MP 53.00NO	SNO MP 53.00	Mainline	53.00	53.09	428	MSE
23	MP 53.01SO	NSO MP 53.01	Mainline	53.01	52.67	1734	MSE
24	MP 53.07SO	NSO MP 53.07	Mainline	53.07	53.06	53	MSE
25	MP 53.34NO	SNO MP 53.34	Mainline	53.34	53.38	237	MSE
26	MP 53.44SOT	INT 7 Ramp SOT MP 53.44	Ramp	53.44	53.49	267	MSE
27	MP 53.45NO	SNO MP 53.45	Mainline	53.45	53.51	324	MSE
28	MP 53.65SO	NSO MP 53.65	Mainline	53.65	53.05	3168	MSE
29	MP 53.65TSO	INT 7 Ramp TSO MP 53.65	Ramp	53.65	53.38	1397	MSE
30	MP 53.66TSO	INT 7 Ramp TSO MP 53.66	Ramp	53.66	53.65	55	MSE
31	MP 53.74TNO	INT 7 Ramp TNO MP 53.74	Ramp	53.74	53.77	158	MSE
32	MP 53.76TNO	INT 7 Ramp TNO MP 53.76	Ramp	53.76	53.77	53	MSE
33	MP 53.78TNO	INT 7 Ramp TNO MP 53.78	Ramp	53.78	53.83	264	MSE
34	MP 53.79NO	SNO MP 53.79	Mainline	53.79	54.00	1109	MSE
35	MP 53.85NOT	INT 7 Ramp NOT MP 53.85	Ramp	53.85	53.85	200	Concrete Panels
36	MP 53.90TNO	INT 7 Ramp TNO MP 53.90	Ramp	53.90	54.00	528	MSE
37	MP 53.93NIT	INT 7 Ramp NIT MP 53.93	Ramp	53.93	53.91	127	MSE
38	MP 53.98SO	NSO MP 53.98	Mainline	53.98	53.93	240	MSE
39	MP 53.98NOT	INT 7 Ramp NOT MP 53.98	Ramp	53.98	53.95	180	MSE
40	MP 54.02TNO	INT 7 Ramp TNO MP 54.02	Ramp	54.02	54.08	322	MSE

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
41	MP 54.10SO	NSO MP 54.10	Ramp	54.10	54.00	528	MSE
42	MP 54.49NO	SNO MP 54.49	Mainline	54.49	54.61	634	MSE
43	MP 55.06SO	NSO MP 55.06	Mainline	55.06	54.85	1056	Concrete Panels
44	MP 55.38NO	SNO MP 55.38	Mainline	55.38	55.47	502	MSE
45	MP 56.00SO	NSO MP 56.00	Mainline	56.00	55.77	1176	MSE
46	MP 56.62NO	SNO MP 56.62	Mainline	56.62	56.82	1050	Soldier Pile/Lagging
47	MP 56.82NO	SNO MP 56.82	Mainline	56.82	56.89	372	MSE
48	MP 56.85SO	U-Turn NSO MP 56.85	Service	56.85	56.80	264	MSE
49	MP 57.10NW	South Broad St. MP 57.10NW	Local	57.10	57.10	326	MSE
50	MP 57.12SW	South Broad St. MP 57.12SW	Local	57.12	57.12	280	MSE
51	MP 57.35NO	SNO MP 57.35	Mainline	57.35	57.41	344	MSE
52	MP 57.41NO	SNO MP 57.41	Mainline	57.41	57.51	535	MSE
53	MP 57.43SO	NSO MP 57.43	Mainline	57.43	57.35	420	MSE
54	MP 57.50SO	NSO MP 57.50	Mainline	57.50	57.46	200	MSE
55	MP 57.75SE	SA6N Ramp SISA MP 57.75SE	Ramp	57.75	57.90	792	MSE
56	MP 57.75SW	SA6N Ramp SISA MP 57.75SW	Ramp	57.75	57.90	772	MSE
57	MP 57.74SE	SA6S Ramp SASI MP 57.74SE	Ramp	57.74	57.67	420	MSE
58	MP 57.74SW	SA6S Ramp SASI MP 57.74SW	Ramp	57.74	57.71	190	MSE
59	MP 57.90SASI	SA6S Ramp SASI MP 57.90	Ramp	57.90	57.83	360	MSE
60	MP 57.95SASI	SA6S Ramp SASI MP 57.95	Ramp	57.95	57.81	710	MSE
61	MP 57.99NE	SA6N Ramp SISA MP 57.99NE	Ramp	57.99	58.16	909	MSE
62	MP 57.99NW	SA6N Ramp SISA MP 57.99NW	Ramp	57.99	58.16	909	MSE
63	MP 58.00SASO	SA6S Ramp SASO MP 58.00	Ramp	58.00	57.90	530	MSE
64	MP 58.05SW	Yardville-Allentown Rd. MP 58.05 SW	Local	58.05	58.05	420	MSE
65	MP 58.10SE	Yardville-Allentown Rd. MP 58.10 SE	Local	58.10	58.10	300	MSE
66	MP 58.31SAS	SA6S Ramp SAS MP 58.31	Ramp	58.31	58.10	1109	MSE
67	MP 58.90SW	SA6N Ramp SANI MP 58.90SW	Ramp	58.90	59.00	528	MSE
68	MP 58.98SANO	SA6N Ramp SANO MP 58.98	Ramp	58.98	59.16	962	MSE
69	MP 59.00SANO	SA6N Ramp SANO MP 59.00	Ramp	59.00	59.19	1003	MSE
70	MP 59.05SE	SA6S Ramp NISA MP 59.05SE	Ramp	59.05	59.15	520	MSE
71	MP 59.11NE	SA6N Ramp SANI MP 59.11NE	Ramp	59.11	59.23	634	MSE
72	MP 59.11NW	SA6N Ramp SANI MP 59.11NW	Ramp	59.11	59.23	634	MSE
73	MP 59.12NOSA	SA6S Ramp NOSA MP 59.12	Ramp	59.12	59.05	630	MSE
74	MP 59.19NW	SA6S Ramp NISA MP 59.19NW	Ramp	59.19	59.11	440	MSE
75	MP 59.19NE	SA6S Ramp NISA MP 59.19NE	Ramp	59.19	59.11	440	MSE
76	MP 59.70SO	NSO MP 59.70	Mainline	59.70	59.55	792	MSE
77	MP 59.93SO	NSO MP 59.93	Mainline	59.93	59.70	1214	MSE
78	MP 60.12SIT	INT 7A Ramp SIT MP 60.12	Ramp	60.12	60.21	475	MSE
79	MP 60.17SIT	INT 7A Ramp SIT MP 60.17	Ramp	60.17	60.21	208	MSE
80	MP 60.30SIT	INT 7A Ramp SIT MP 60.30	Ramp	60.30	60.39	468	MSE

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
81	MP 60.35E	INT 7A Ramp TSI MP 60.35E	Ramp	60.35	60.27	420	MSE
82	MP 60.35W	INT 7A Ramp TSI MP 60.35W	Ramp	60.35	60.43	420	MSE
83	MP 60.45TSO	INT 7A Ramp TSO MP 60.45	Ramp	60.45	60.29	830	MSE
84	MP 60.99SW	INT 7A Ramp TNI MP 60.99SW	Ramp	60.99	61.02	220	MSE
85	MP 61.05SE	INT 7A Ramp NIT MP 61.05SE	Ramp	61.05	60.96	480	MSE
86	MP 61.08NE	INT 7A Ramp TNI MP 61.08NE	Ramp	61.08	61.15	370	MSE
87	MP 61.08NW	INT 7A Ramp TNI MP 61.08NW	Ramp	61.08	61.19	584	MSE
88	MP 61.29NE	INT 7A Ramp NIT MP 61.29NE	Ramp	61.29	61.16	690	MSE
89	MP 61.29NW	INT 7A Ramp NIT MP 61.29NW	Ramp	61.29	61.16	690	MSE
90	MP 63.25NO	SNO MP 63.25	Mainline	63.25	63.31	324	MSE
91	MP 63.30SO	NSO MP 63.30	Mainline	63.30	63.26	200	MSE
92	MP 63.32NO	SNO MP 63.32	Mainline	63.32	63.40	411	MSE
93	MP 63.44SO	NSO MP 63.44	Mainline	63.44	63.33	594	MSE
94	MP 63.48NO	SNO MP 63.48	Mainline	63.48	63.64	802	MSE
95	MP 63.54SO	NSO MP 63.54	Mainline	63.54	63.44	528	MSE
96	MP 64.77SO	NSO MP 64.77	Mainline	64.77	64.70	380	MSE
97	MP 64.85NO	SNO MP 64.85	Mainline	64.85	64.98	702	MSE
98	MP 64.98NO	SNO MP 64.98	Mainline	64.98	65.10	593	MSE
99	MP 66.22SO	NSO MP 66.22	Mainline	66.22	66.18	248	MSE
100	MP 66.21NO	SNO MP 66.21	Mainline	66.21	66.35	742	MSE
101	MP 66.45SO	NSO MP 66.45	Mainline	66.45	66.16	1516	MSE
102	MP 66.70SO	NSO MP 66.70	Mainline	66.70	66.59	580	MSE
103	MP 67.21TSO	INT 8 Ramp TSO MP 67.21	Ramp	67.21	67.12	450	MSE
104	MP 67.25SOT	INT 8 Ramp SOT MP 67.25	Mainline	67.25	67.32	370	MSE
105	MP 67.28SE	INT 8 Ramp SIT MP 67.28SE	Ramp	67.28	67.39	564	MSE
106	MP 67.28SW	INT 8 Ramp SIT MP 67.28SW	Ramp	67.28	67.39	581	MSE
107	MP 67.30TSO	INT 8 Ramp TSO MP 67.30	Ramp	67.30	67.25	240	MSE
108	MP 67.45NT	INT 8 Ramp NT MP 67.45	Ramp	67.45	67.45	500	MSE
109	MP 67.50SW	INT 8 Ramp TSI MP 67.50SW	Ramp	67.50	67.40	528	MSE
110	MP 67.50SE	INT 8 Ramp TSI MP 67.50SE	Ramp	67.50	67.41	460	MSE
111	MP 67.57TNO	INT 8 Ramp TNO MP 67.57	Ramp	67.57	67.70	628	MSE
112	MP 67.62NE	INT 8 Ramp TNI MP 67.62NE	Ramp	67.62	67.72	522	MSE
113	MP 67.62NW	INT 8 Ramp TNI MP 67.62NW	Ramp	67.62	67.75	686	MSE
114	MP 67.69	U-Turn MP 67.69	Service	67.69	67.73	295	MSE
115	MP 67.73NE	INT 8 Ramp NOT MP 67.73NE	Ramp	67.73	67.70	290	MSE
116	MP 67.73NW	INT 8 Ramp NOT MP 67.73NW	Ramp	67.73	67.70	550	MSE
117	MP 67.76NE	INT 8 Ramp NIT MP 67.76NE	Ramp	67.76	67.70	310	MSE
118	MP 67.76NW	INT 8 Ramp NIT MP 67.76NW	Ramp	67.76	67.70	310	MSE
119	MP 67.85TW	INT 8 Ramp TW MP 67.85	Ramp	67.85	67.96	751	MSE
120	MP 67.94NO	SNO MP 67.94	Mainline	67.94	67.99	267	MSE

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
121	MP 67.94SO	NSO MP 67.94	Mainline	67.94	67.90	200	MSE
122	MP 68.02NO	SNO MP 68.02	Mainline	68.02	68.10	436	MSE
123	MP 68.03SE	INT 8 Ramp TW MP 68.03SE	Ramp	68.03	68.14	550	MSE
124	MP 68.14SW	INT 8 Ramp WT MP 68.14SW	Ramp	68.14	68.07	393	MSE
125	MP 68.19NE	INT 8 Ramp TW MP 68.19NE	Ramp	68.19	68.28	438	MSE
126	MP 68.24NW	INT 8 Ramp WT MP 68.24NW	Ramp	68.24	68.19	254	MSE
127	MP 68.30NO	SNO MP 68.30	Mainline	68.30	68.39	475	MSE
128	MP 68.43NO	SNO MP 68.43	Mainline	68.43	68.48	244	MSE
129	MP 69.30NO	SNO MP 69.30	Mainline	69.30	69.42	598	MSE
130	MP 69.62NO	SNO MP 69.62	Mainline	69.62	69.90	1484	MSE
131	MP 69.85SO	NSO MP 69.85	Mainline	69.85	69.80	290	MSE
132	MP 69.97NO	SNO MP 69.97	Mainline	69.97	70.04	344	MSE
133	MP 70.00SO	NSO MP 70.00	Mainline	70.00	69.85	1056	MSE
134	MP 70.49NO	SNO MP 70.49	Mainline	70.49	70.69	1036	MSE
135	MP 70.70NO	SNO MP 70.70	Mainline	70.70	70.73	164	MSE
136	MP 70.75NO	SNO MP 70.75	Mainline	70.75	70.76	80	Steel Sheeting
137	MP 70.75SO	NSO MP 70.75	Mainline	70.75	70.72	170	MSE
138	MP 70.76NO	SNO MP 70.76	Mainline	70.76	71.27	2711	MSE
139	MP 70.84SO	NSO MP 70.84	Mainline	70.84	70.76	400	MSE
140	MP 71.30NW	Cranbury-Half Acre Road MP 71.30 NW	Local	71.30	71.30	190	MSE
141	MP 71.30SW	Cranbury-Half Acre Road MP 71.30 SW	Local	71.30	71.30	60	Reinforced Concrete
142	MP 71.40SE	SA7S Ramp SASI MP 71.40SE	Ramp	71.40	71.24	600	MSE
143	MP 71.40SW	SA7S Ramp SASI MP 71.40SW	Ramp	71.40	71.25	530	MSE
144	MP 71.40SASO	SA7S Ramp SASO MP 71.40	Ramp	71.40	71.22	976	MSE
145	MP 71.45NE	SA7S Ramp SASI MP 71.45NE	Ramp	71.45	71.40	220	MSE
146	MP 71.46SASO	SA7S Ramp SASO MP 71.46	Ramp	71.46	71.67	1110	MSE
147	MP 71.48	U-Turn MP 71.48	Service	71.48	71.48	290	MSE
148	MP 71.72SAS	SA7S Ramp SAS MP 71.72	Ramp	71.72	71.60	633	MSE
149	MP 71.80NO	SNO MP 71.80	Mainline	71.80	71.88	422	MSE
150	MP 71.87NOSA	SA7S Ramp NOSA MP 71.87	Ramp	71.87	71.80	350	MSE
151	MP 71.89NO	SNO MP 71.89	Mainline	71.89	71.93	208	MSE
152	MP 71.89NOSA	SA7S Ramp NOSA MP 71.89	Ramp	71.89	71.88	50	MSE
153	MP 72.11NOSA	SA7S Ramp NOSA MP 72.11	Ramp	72.11	71.89	1128	MSE
154	MP 72.11NE	Prospect Plains Road MP 72.11 NE	Local	72.11	72.11	442	MSE
155	MP 72.30SE	SA7S Ramp NISA MP 72.30SE	Ramp	72.30	72.25	264	MSE
156	MP 72.35E	SA7S Ramp NOSA MP 72.35E	Ramp	72.35	72.31	211	MSE
157	MP 72.35W	SA7S Ramp NOSA MP 72.35W	Ramp	72.35	72.22	686	MSE
158	MP 72.43NE	SA7S Ramp NISA MP 72.43NE	Ramp	72.43	72.33	528	MSE
159	MP 72.43NW	SA7S Ramp NISA MP 72.43NW	Ramp	72.43	72.33	528	MSE
160	MP 73.11NO	SNO MP 73.11	Mainline	73.11	73.17	318	MSE

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
161	MP 73.16SO	NSO MP 73.16	Mainline	73.16	73.12	211	MSE
162	MP 73.60SW	INT 8A Ramp SIT MP 73.60SW	Ramp	73.60	73.65	264	Reinforced Concrete
163	MP 73.61SE	INT 8A Ramp SIT MP 73.61SE	Ramp	73.61	73.65	211	MSE
164	MP 73.81NE	INT 8A Ramp TNI MP 73.81NE	Ramp	73.81	73.87	302	MSE
165	MP 73.78NW	INT 8A Ramp TNI MP 73.78NW	Ramp	73.78	73.89	422	MSE
166	MP 73.86SE	INT 8A Ramp TSI MP 73.86SE	Ramp	73.81	73.75	317	MSE
167	MP 73.86TSO	INT 8A Ramp TSO MP 73.86	Ramp	73.85	73.84	106	MSE
168	MP 73.86SW	INT 8A Ramp TSI MP 73.86SW	Ramp	73.86	73.78	422	MSE
169	MP 73.85TSO	INT 8A Ramp TSO MP 73.85	Ramp	73.86	73.84	53	MSE
170	MP 74.04NE	INT 8A Ramp NIT MP 74.04NE	Ramp	74.04	73.95	475	Reinforced Concrete
171	MP 74.33NO	SNO MP 74.33	Mainline	74.33	74.45	634	MSE
172	MP 74.47NO	SNO MP 74.47	Mainline	74.47	74.56	475	MSE
173	MP 77.80NO	SNO MP 77.80	Mainline	77.8	77.82	110	MSE
174	MP 78.34SW	SA8N Ramp NISA MP 78.34SW	Ramp	78.34	78.45	608	Reinforced Concrete
175	MP 78.35SE	SA8N Ramp NISA MP 78.35SE	Ramp	78.35	78.45	448	MSE
176	MP 78.55NW	SA8N Ramp NISA MP 78.55NW	Ramp	78.55	78.56	60	MSE
177	MP 78.91SE	SA8N Ramp SANI MP 78.91SE	Ramp	78.91	78.98	388	MSE
178	MP 78.91SW	SA8N Ramp SANI MP 78.91SW	Ramp	78.91	78.98	378	MSE
179	MP 79.05NE	SA8N Ramp SANI MP 79.05NE	Ramp	79.05	79.15	528	MSE
180	MP 79.05NW	SA8N Ramp SANI MP 79.05NW	Ramp	79.05	79.17	628	MSE
181	MP 79.98NO	SNO MP 79.98	Mainline	79.98	80.08	530	Reinforced Concrete

**SECTION XVIII**  
**OPS No. A3652**  
**Retaining Wall Listing – (South)**  
**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 0.51S	SB MP 0.51	Mainline	0.51	0.49	155	Plastic Sheeting
2	MP 0.52N	NB MP 0.52	Mainline	0.52	0.53	59	Plastic Sheeting
3	MP 0.53S	SB MP 0.53	Mainline	0.53	0.52	53	Plastic Sheeting
4	MP 0.54N	NB MP 0.54	Mainline	0.54	0.56	110	Plastic Sheeting
5	MP 2.43S	SB MP 2.43	Mainline	2.43	2.41	67	Timber Sheeting
6	MP 2.45S	SB MP 2.45	Mainline	2.45	2.44	47	Timber Sheeting
7	MP 8.39S	SB MP 8.39	Mainline	8.39	8.23	845	MSE
8	MP 8.55S	SB MP 8.55	Mainline	8.55	8.43	634	MSE
9	MP 9.62NBX	INT 10 Ramp NBX MP 9.62	Ramp	9.62	9.84	1162	MSE
10	MP 10.83N	NB MP 10.83	Mainline	10.83	11.00	898	MSE
11	MP 10.97S	SB MP 10.97	Mainline	10.97	10.86	581	MSE
12	MP 11.05S	SB MP 11.05	Mainline	11.05	10.92	686	MSE
13	MP 11.25S	SB MP 11.25	Mainline	11.25	11.10	792	MSE
14	MP 27.36N	NB MP 27.36	Mainline	27.36	27.42	317	MSE
15	MP 27.41S	SB MP 27.41	Mainline	27.41	27.20	1028	MSE
16	MP 28.15N	NB MP 28.15	Mainline	28.15	28.41	1373	MSE
17	MP 28.41S	SB MP 28.41	Mainline	28.41	28.15	1408	MSE
18	MP 28.55N	NB MP 28.55	Mainline	28.55	28.60	264	MSE
19	MP 28.69S	SB MP 28.69	Mainline	28.69	28.55	750	MSE
20	MP 37.05S	INT 37 Ramp SBEA MP 37.05	Ramp	37.05	36.99	317	MSE
21	MP 37.13S	INT 37 Ramp SBEA MP 37.13	Ramp	37.13	37.11	132	MSE
22	MP 48.30S	INT 48 Ramp SBX MP 48.30	Ramp	48.30	48.30	400	MSE
23	MP 48.59N	NB MP 48.59	Mainline	48.59	48.81	1156	MSE
24	MP 49.10N	NB MP 49.10	Mainline	49.10	49.59	2590	MSE
25	MP 50.65SE	Route 9 MP 50.65 SE	Local	50.65	50.65	375	MSE
26	MP 51.47N	NB MP 51.47	Mainline	51.47	51.77	1600	MSE
27	MP 51.80S	SB MP 51.80	Mainline	51.80	51.58	1310	MSE
28	MP 51.93N	NB MP 51.93	Mainline	51.93	52.33	2100	MSE
29	MP 51.96S	SB MP 51.96	Mainline	51.96	51.92	205	MSE
30	MP 84.35S	SB MP 84.35	Mainline	84.35	84.18	898	MSE
31	MP 92.70N	NB MP 92.70	Ramp	92.70	92.71	189	MSE
32	MP 94.84N	NB MP 94.84	Mainline	94.84	94.92	422	MSE
33	MP 94.98S	SB MP 94.98	Mainline	94.98	94.92	317	MSE
34	MP 114.37N	NBO MP 114.37	Mainline	114.37	114.40	150	Reinforced Concrete
35	MP 114.43N	NBI to NBO MP 114.43	Ramp	114.43	114.43	344	Reinforced Concrete
36	MP 114.44N	NBO MP 114.44	Mainline	114.44	114.46	128	Reinforced Concrete
37	MP 123.70S	SBI MP 123.70	Mainline	123.70	123.70	100	Reinforced Concrete
38	MP 123.65S	SBO MP 123.65	Mainline	123.65	123.65	210	Reinforced Concrete
39	MP 124.10N	NBI MP 124.10	Mainline	124.10	124.19	463	Reinforced Concrete
40	MP 128.63S	SB MP 128.63	Mainline	128.63	128.60	158	Reinforced Concrete
41	MP 131.10S	SB MP 131.10	Mainline	131.10	131.09	72	Stone Masonry

**SECTION XIX**  
**OPS No. A3652**  
**Noise Barrier Listing – (South)**  
**(TURNPIKE)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 38.76NO	SNO MP 38.76	Mainline	38.76	38.95	1023	Post and Panel
2	MP 54.12SO	NSO MP 54.12	Mainline	54.12	53.95	898	Post and Panel
3	MP 54.20SO	NSO MP 54.20	Mainline	54.20	54.11	473	Post and Panel
4	MP 54.47SO	NSO MP 54.47	Mainline	54.47	54.18	1547	Post and Panel
5	MP 54.71SO	NSO MP 54.71	Mainline	54.71	54.46	1314	Post and Panel
6	MP 55.05SO	NSO MP 55.05	Mainline	55.05	54.75	1584	Post and Panel
7	MP 60.91NI	INT 7A Ramp NI MP 60.91	Ramp	60.91	60.68	1214	Post and Panel
8	MP 61.91SO	NSO MP 61.91	Mainline	61.91	61.63	1487	Post and Panel
9	MP 62.49SO	NSO MP 62.49	Mainline	62.49	62.27	1064	Post and Panel
10	MP 62.70SO	NSO MP 62.70	Mainline	62.70	62.48	1170	Post and Panel
11	MP 65.54SO	NSO MP 65.54	Mainline	65.54	65.34	1080	Post and Panel
12	MP 65.65SO	NSO MP 65.65	Mainline	65.65	65.56	460	Post and Panel
13	MP 66.92NO	SNO MP 66.92	Mainline	66.92	67.08	685	Post and Panel
14	MP 67.63TN	INT 8 Ramp TN MP 67.63	Ramp	67.63	67.98	1828	Post and Panel
15	MP 73.10NO	SNO MP 73.10	Mainline	73.10	73.30	1056	Post and Panel
16	MP 73.47NO	SNO MP 73.47	Mainline	73.47	73.64	907	Post and Panel
17	MP 73.63SOT	INT 8A Ramp SOT MP 73.63	Ramp	73.63	73.71	465	Post and Panel
18	MP 73.68SOT	INT 8A Ramp SOT MP 73.68	Ramp	73.68	74.00	2065	Post and Panel
19	MP 74.00NO	SNO MP 74.00	Mainline	74.00	74.31	1680	Post and Panel
20	MP 77.88NO	SNO MP 77.88	Mainline	77.88	78.03	812	Post and Panel
21	MP 78.61NO	SNO MP 78.61	Mainline	78.61	79.02	2800	Post and Panel
22	MP 79.00NO	SNO MP 79.00	Mainline	79.00	79.30	1430	Post and Panel
23	MP 79.34NO	SNO MP 79.34	Mainline	79.34	79.53	1026	Post and Panel
24	MP 79.60NO	SNO MP 79.60	Mainline	79.60	79.74	718	Post and Panel
25	MP 79.73NO	SNO MP 79.73	Mainline	79.73	79.80	460	Post and Panel
26	MP 79.80NO	SNO MP 79.80	Mainline	79.80	80.11	1656	Post and Panel

**SECTION XIX**  
**OPS No. A3652**  
**Noise Barrier Listing – (South)**  
**(PARKWAY)**

No.	Structure No.	Structure Name	Location	MP Start	MP End	Length (Ft.)	Wall Type
1	MP 84.91S	SB MP 84.91	Mainline	84.91	84.47	2348	Post and Panel
2	MP 92.80N	NB MP 92.80	Mainline	92.80	92.97	915	Post and Panel
3	MP 132.42S	SB MP 132.42	Mainline	132.42	132.33	550	Post and Panel
4	MP 132.76N	NB MP 132.76	Mainline	132.76	133.08	2000	Post and Panel
5	MP 134.32N	NB MP 134.32	Mainline	134.32	134.68	2500	Post and Panel
6	MP 134.52S	SB MP 134.52	Mainline	134.52	134.32	1300	Post and Panel