

Appendix D5

Asbestos-Containing Materials Reports

Asbestos-Containing Materials Inspection

FOR

BIN 1022609
Best Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates
300 State St #201
Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5
100 Seneca Street
Buffalo, NY 14203

PIN – 5512.52.123

D038277

Watts Project No. 20220255

August 2023, Revised September 2023

Submitted by:

Watts
Architects
&Engineers



Watts Project Contact and Asbestos Fact Sheet



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Name and Address of Building/Structure

BIN 1022609 - Best Street Bridge over
Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers
Matthew E. Holquist (NYS DOL Cert #01-08239)
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Date(s) the Inspection Was Conducted

May 3 & 11, 2023

Table of Contents

Watts Project Contact and Asbestos Fact Sheet	i
Table of Contents	ii
1.0 / Introduction	1
2.0 / Inspection Results	1
3.0 / Inspection Procedures	4
4.0 / Inspection Limitations	5
5.0 / Conclusions and Recommendations	5
Asbestos Bulk Sample Summary Table.....	7

Appendices

Appendix A – Photos

Appendix B – Figures

 Figure 1 – Project Location Map

 Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan
and Project Information

1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Best Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022609) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 – Dodge Street Bridge over NYS Route 33
- BIN 1022620 – Northampton Street Bridge over NYS Route 33
- BIN 1022630 – East Utica Street Bridge over NYS Route 33
- BIN 1022640 – East Ferry Street Bridge over NYS Route 33
- BIN 1022609 – Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected a total of thirty (30) bulk samples to represent the ten (10) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022609 – Best Street Bridge over Kensington Expressway (NYS Route 33).

Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Sheet Packing - Dark Grey	Between Bottom of Deck and Tops of Abutments at Both Ends of Bridge	~190 SF	Non-Friable	Good	210.3312
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

Confirmed ACM Details

During the record plan review and onsite inspection, the following ACM was identified:

Dark Grey Sheet Packing

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 190 square feet (approximately 95 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

Abutment / Retaining Wall Caulking

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total

of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022609, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8” x 14” (a total of 3.67 linear feet per plate) and has an approximate 1” thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Inaccessible Assumed ACM

During the record plan review and onsite inspection, the following inaccessible assumed ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

Inaccessible Assumed ACM Details

Waterproofing – Item 61 – Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A – Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

- Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.
- Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.
- Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via

198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6”-12” below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- **Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 190 square feet (95 square feet each side) of dark grey sheet packing is

located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022609.

- **Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos-containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.
- **Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- **Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot)** – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.

Asbestos Bulk Sample Summary Table

BIN 1022609 – Best Street Bridge over Kensington Expressway (NYS Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5512.52.123

Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022609-01	Tan Girder Paint	Center Pier, Middle	None Detected
1022609-02	Tan Girder Paint	Center Pier, South Side	None Detected
1022609-03	Tan Girder Paint	East Abutment, South Side	None Detected
1022609-04	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-05	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022609-06	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-07	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-08	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022609-09	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-10	Vapor Barrier Jacket on Fiberglass Insulation	Center Pier, South Side	None Detected
1022609-11	Vapor Barrier Jacket on Fiberglass Insulation	Center Pier, South Side	None Detected
1022609-12	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, South Side	None Detected
1022609-13	Orange Bearing Pad	East Abutment, South	None Detected
1022609-14	Orange Bearing Pad	East Abutment, South Middle	None Detected

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022609-15	Orange Bearing Pad	East Abutment, North Middle	None Detected
1022609-16	Dark Grey Headwall Sheet Packing	East Abutment, South	12.00% Chrysotile
1022609-17	Dark Grey Headwall Sheet Packing	East Abutment, South Middle	Positive Stop (Not Analyzed)
1022609-18	Dark Grey Headwall Sheet Packing	East Abutment, Middle	Positive Stop (Not Analyzed)
1022609-19	Silver/Orange Railing Paint	North Railing, Middle	None Detected
1022609-20	Silver/Orange Railing Paint	South Railing, Middle	None Detected
1022609-21	Silver/Orange Railing Paint	South Railing, West End	None Detected
1022609-22	Black Sidewalk Joint Filler	SW Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-23	Black Sidewalk Joint Filler	SE Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-24	Black Sidewalk Joint Filler	NW Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-25	Green Traffic Signal Pole Paint	SW Quadrant	None Detected
1022609-26	Green Traffic Signal Pole Paint	NW Quadrant	None Detected
1022609-27	Green Traffic Signal Pole Paint	NE Quadrant	None Detected
1022609-28	Dark Grey Deck Expansion Joint Sealer	South Sidewalk, West Expansion Joint	None Detected
1022609-29	Dark Grey Deck Expansion Joint Sealer	Center Median, East Expansion Joint	None Detected
1022609-30	Dark Grey Deck Expansion Joint Sealer	Center Median, West Expansion Joint	None Detected

Appendix A

Photos



Photo 1 - View to the north from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 2 - View to the east from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 3 - View to the south from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 4 - View to the west from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 5 – BIN plate located on the adjacent fence at the northeast quadrant of BIN 1022609.



Photo 6 – View looking south towards the northeast side of BIN 1022609 during the night-time inspection that occurred after closing the EB Kensington Expressway (EB Route 33).



Photo 7 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022609 was confirmed as an ACM. Picture taken at the southeast quadrant of the bridge.



Photo 8 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022609 was confirmed as an ACM. Picture taken at the center of the east abutment.



Photo 9 - Retaining wall system within the Kensington Expressway project corridor that has an associated asbestos-containing caulking located within each expansion joint and an inaccessible/assumed asbestos-containing waterproofing located on the back sides of the abutments, retaining walls, counterforts, and tops of footer piles.



Photo 10 - Retaining wall system within the Kensington Expressway project corridor that has an associated asbestos-containing caulking located within each expansion joint and an inaccessible/assumed asbestos-containing waterproofing located on the back sides of the abutments, retaining walls, counterforts, and tops of footer piles.



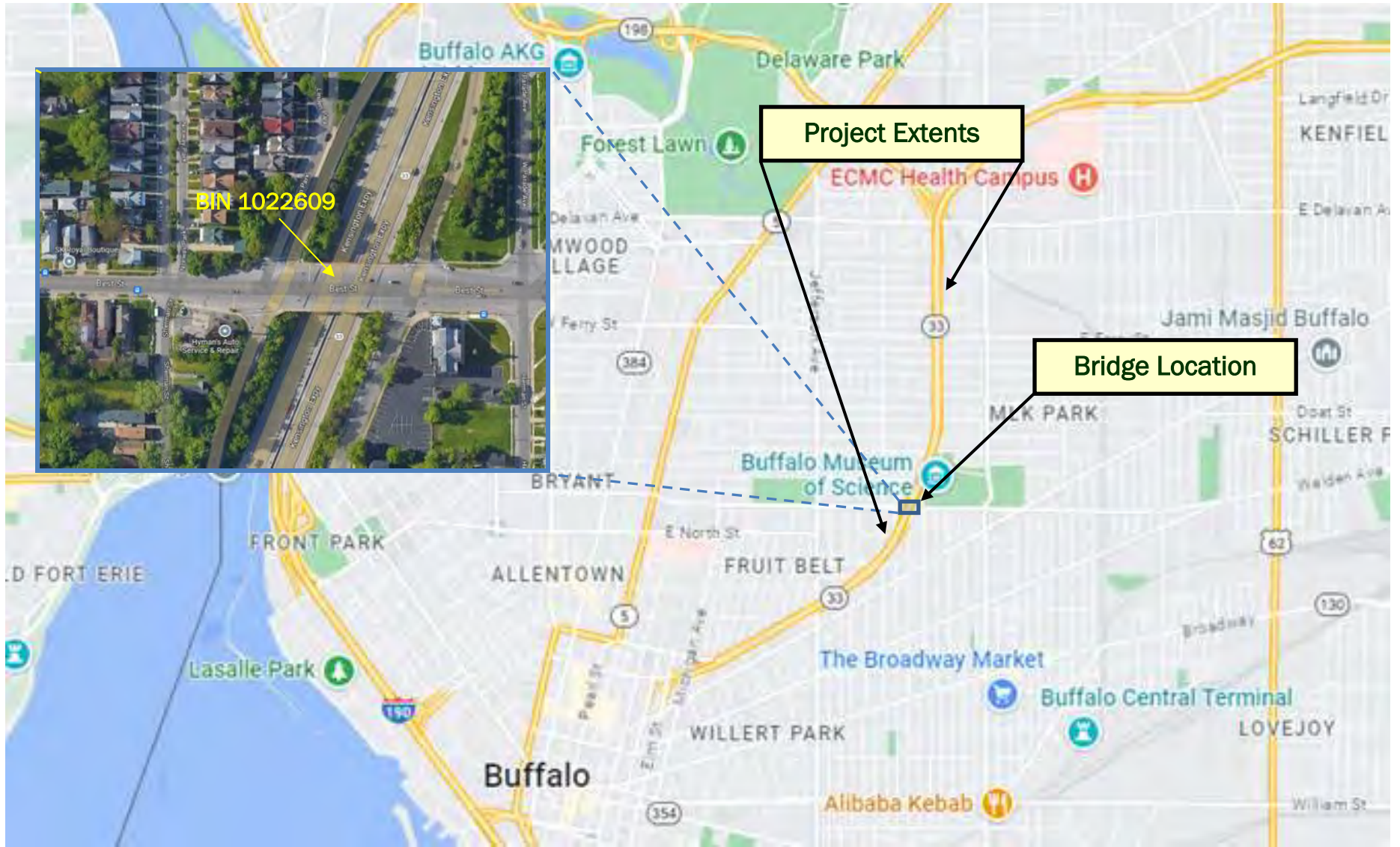
Photo 11 - Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



Photo 12 - Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

Appendix B

Figures



Project Location

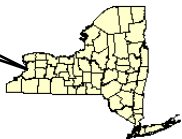


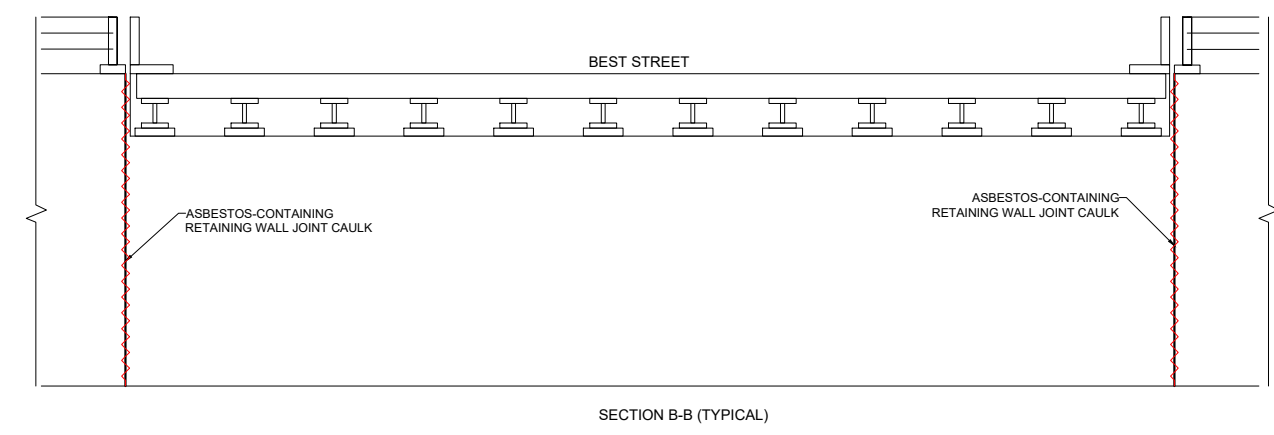
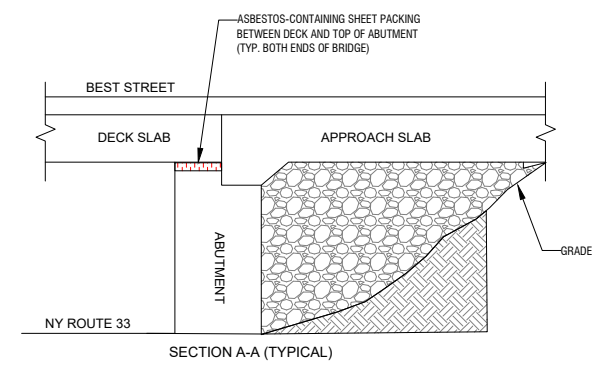
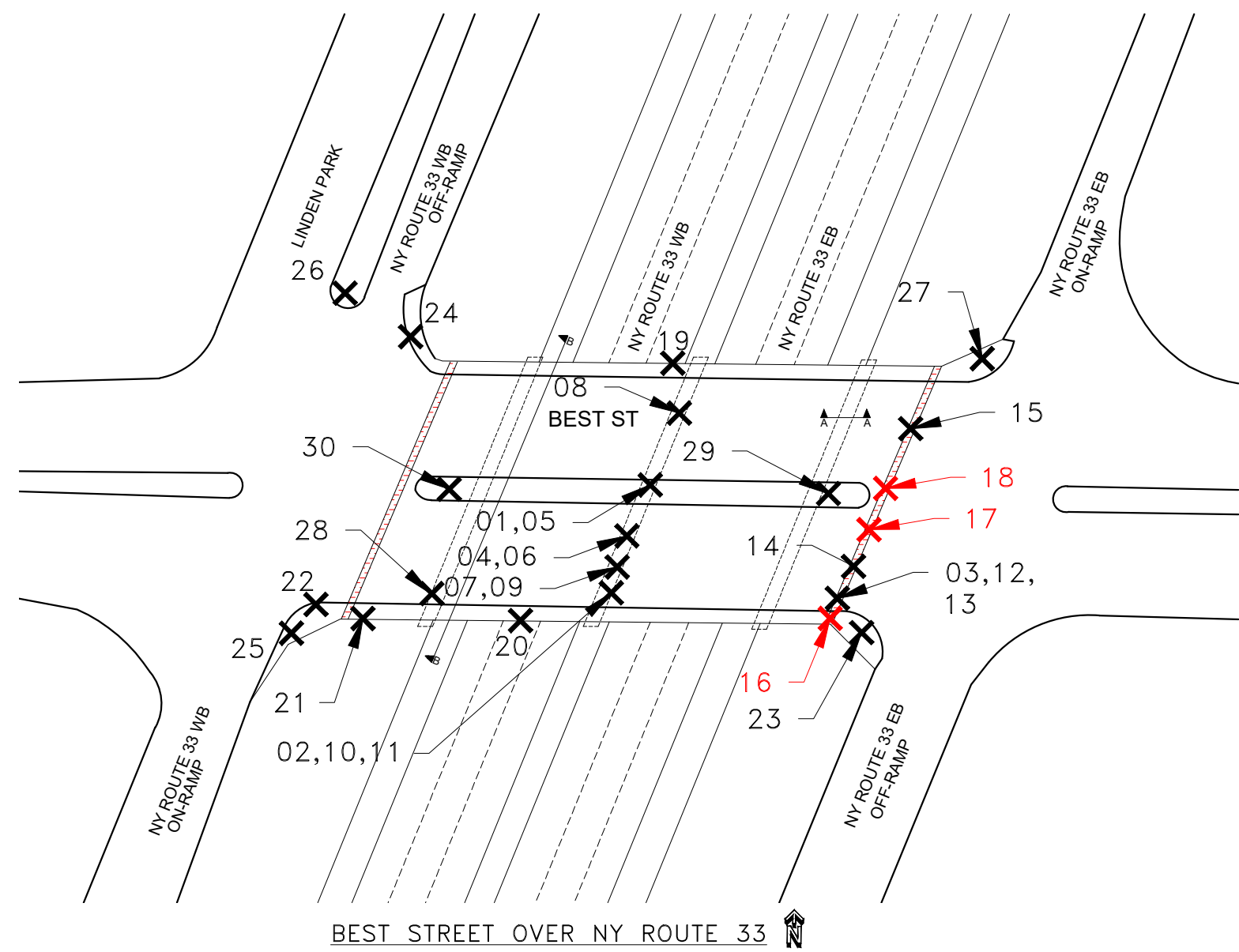
FIGURE 1 - PROJECT LOCATION MAP

Best Street over Kensington Expressway (Rt 33)
BIN 1022609
City of Buffalo, Erie County, New York

Not to Scale

June 2023

Source: Google Maps 2023.





LEGEND
 ASBESTOS-CONTAINING SHEETPACKING
 ASBESTOS-CONTAINING CAULK

FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022609

Watts
Architects
&Engineers
 95 Perry Street, Suite 300
 Buffalo, New York 14203
 (716) 206-5100 | (716) 206-5199 Fax

BEST STREET OVER NY ROUTE 33
CITY OF BUFFALO, NEW YORK
 NOT TO SCALE | JULY 2023

SAMPLES ARE PREFIXED BY 1022609-
 SAMPLES WERE COLLECTED ON MAY 3 AND 11, 2023.
 X INDICATES APPROXIMATE SAMPLE LOCATION
 X SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

10/2023/20230501/1022609/ASBESTOS/1022609-ASBESTOS-LOCATIONS-07-21-2023/1113509

Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffaloab@emsl.com>

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022609/Best St. over Kensington (Rt. 33)

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 05/23/2023 3:36 PM
Analysis Date: 05/25/2023 - 05/31/2023
Collected Date: 05/10/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-01 142302268-0001		Description	Tar Girder Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Rust		100.00% Other	None Detected
Sample ID 1022609-02 142302268-0002		Description	Tar Girder Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID 1022609-03 142302268-0003		Description	Tar Girder Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Pink		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Pink		100.00% Other	None Detected
Sample ID 1022609-04 142302268-0004		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Black	20.00% Cellulose	80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-05 142302268-0005		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Black	20.00% Cellulose	80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 05/31/2023 08:26:48



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-06 142302268-0006		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/31/2023	Black		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-07 142302268-0007		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022609-08 142302268-0008		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022609-09 142302268-0009		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022609-10 142302268-0010		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Black		100.00% Other	None Detected
Sample ID 1022609-11 142302268-0011		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Black		100.00% Other	None Detected

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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-12 142302268-0012		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Black/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Black/ Rust		100.00% Other	None Detected
Sample ID 1022609-13 142302268-0013		Description	Orange Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Rust		100.00% Other	None Detected
Sample ID 1022609-14 142302268-0014		Description	Orange Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Black/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Black/ Rust		100.00% Other	None Detected
Sample ID 1022609-15 142302268-0015		Description	Orange Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Rust		100.00% Other	None Detected
Sample ID 1022609-16 142302268-0016		Description	Dark Gray Headwall Sheet Packing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Black	None	88.00% Non-fibrous (other)	12.00% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-17 142302268-0017		Description	Dark Gray Headwall Sheet Packing		
		Homogeneity			
PLM NYS 198.1 Friable	05/25/2023				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 05/31/2023 08:26:48



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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-18 142302268-0018		Description	Dark Gray Headwall Sheet Packing		
		Homogeneity			
PLM NYS 198.1 Friable	05/25/2023				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-19 142302268-0019		Description	Silver/Orange Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID 1022609-20 142302268-0020		Description	Silver/Orange Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Silver/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Silver/ Rust		100.00% Other	None Detected
Sample ID 1022609-21 142302268-0021		Description	Silver/Orange Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID 1022609-22 142302268-0022		Description	Black Sidewalk Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Black	5.00% Cellulose	95.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-23 142302268-0023		Description	Black Sidewalk Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Black	5.00% Cellulose	95.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 05/31/2023 08:26:48



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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-24 142302268-0024		Description	Black Sidewalk Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/31/2023	Black	100.00% Non-fibrous (other)		None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609-25 142302268-0025		Description	Green Traffic Signal Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various	100.00% Other		Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various	100.00% Other		None Detected
Sample ID 1022609-26 142302268-0026		Description	Green Traffic Signal Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various	100.00% Other		Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various	100.00% Other		None Detected
Sample ID 1022609-27 142302268-0027		Description	Green Traffic Signal Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Green/ Rust	100.00% Other		Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Green/ Rust	100.00% Other		None Detected
Sample ID 1022609-28 142302268-0028		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Brown	100.00% Other		Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown	100.00% Other		None Detected
Sample ID 1022609-29 142302268-0029		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Black	100.00% Other		Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black	100.00% Other		None Detected

Initial report from: 05/31/2023 08:26:48



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
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<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022609-30 142302268-0030		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black		100.00% Other	None Detected

Initial report from: 05/31/2023 08:26:48



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302268
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 5/23/2023
Analysis Completed Date: 5/31/2023

Sample Receipt Time: 3:36 PM
Analysis Completed Time: 7:38 AM

Analyst(s):

Hannah Parkes PLM NYS 198.1 Friable (2)

Jessica Kroczyński PLM NYS 198.1 Friable (5)

Tom Hanes PLM NYS 198.6 NOB (21)

Tom Hanes TEM NYS 198.4 NOB (21)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/31/2023 08:26:48

142302268

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022609/Best St. over Kensington (Rt. 33)
Contact: Matt Holquist at (716) 435-1724
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23

Watts Project No.: 20220255

Analysis Requested:

Turnaround Time Requested:

ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day
ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week X
ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks
Other (Specify)		96 Hr.	

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022609-01	Tan Girder Paint	1	Center Pier, Middle		
1022609-02	Tan Girder Paint	1	Center Pier, South Side		
1022609-03	Tan Girder Paint	1	East Abutment, South Side		
1022609-04	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South		
1022609-05	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, North		
1022609-06	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South		
1022609-07	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, South		
1022609-08	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, North		
1022609-09	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, South		
1022609-10	Vapor Barrier Jacket on Fiberglass Insulation	4	Center Pier, South Side		
1022609-11	Vapor Barrier Jacket on Fiberglass Insulation	4	Center Pier, South Side		
1022609-12	Vapor Barrier Jacket on Fiberglass Insulation	4	East Abutment, South Side		

Sampled By: Matthew E. Holquist *Matt Holquist* Date: 05/10/23 Time: 17:00 Received By: _____ Date: _____

Relinquished By: Matthew E. Holquist *Matt Holquist* Date: 05/23/23 Time: 15:22 Received By: _____ Date: _____

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

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MAY 23 2023

BY: *[Signature]*

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142302268

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022609/Best St. over Kensington (Rt. 33)
Contact: Matt Holquist at (716) 435-1724
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23
Watts Project No.: 20220255

Analysis Requested: Turnaround Time Requested:
ELAP 198.1 (Friable PLM) X 24 Hr. 5 Day
ELAP 198.6 (NOB PLM) X 48 Hr. 1 Week X
ELAP 198.4 (NOB TEM) X 72 Hr. 2 Weeks
Other (Specify) 96 Hr.

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022609-13	Orange Bearing Pad	5	East Abutment, South		
1022609-14	Orange Bearing Pad	5	East Abutment, South Middle		
1022609-15	Orange Bearing Pad	5	East Abutment, North Middle		
1022609-16	Dark Gray Headwall Sheet Packing	6	East Abutment, South		
1022609-17	Dark Gray Headwall Sheet Packing	6	East Abutment, South Middle		
1022609-18	Dark Gray Headwall Sheet Packing	6	East Abutment, Middle		
1022609-19	Silver/Orange Railing Paint	7	North Railing, Middle		
1022609-20	Silver/Orange Railing Paint	7	South Railing, Middle		
1022609-21	Silver/Orange Railing Paint	7	South Railing, West End		
1022609-22	Black Sidewalk Joint Filler	8	SW Quadrant, Between Sidewalk and Wing Wall		
1022609-23	Black Sidewalk Joint Filler	8	SE Quadrant, Between Sidewalk and Wing Wall		
1022609-24	Black Sidewalk Joint Filler	8	NW Quadrant, Between Sidewalk and Wing Wall		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/10/23 Time: 17:00 Received By: Date:
Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/23/23 Time: 15:30 Received By: Date:

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

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MAY 23 2023
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1423 02268

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022609/Best St. over Kensington (Rt. 33)
Contact: Matt Holquist at (716) 435-1724
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23
Watts Project No.: 20220255

Analysis Requested: ELAP 198.1 (Friable PLM) X
ELAP 198.6 (NOB PLM) X
ELAP 198.4 (NOB TEM) X
Other (Specify) _____

Turnaround Time Requested: 24 Hr. _____ 5 Day _____
48 Hr. _____ 1 Week X
72 Hr. _____ 2 Weeks _____
96 Hr. _____

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022609-25	Green Traffic Signal Pole Paint	9	SW Quadrant		
1022609-26	Green Traffic Signal Pole Paint	9	NW Quadrant		
1022609-27	Green Traffic Signal Pole Paint	9	NE Quadrant		
1022609-28	Dark Gray Deck Expansion Joint Sealer	10	South Sidewalk, West Expansion Joint		
1022609-29	Dark Gray Deck Expansion Joint Sealer	10	Center Median, East Expansion Joint		
1022609-30	Dark Gray Deck Expansion Joint Sealer	10	Center Median, West Expansion Joint		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/10/23 Time: 17:00 Received By: _____ Date: _____
Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/23/23 Time: 15:30 Received By: _____ Date: _____

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

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BY: *[Signature]*
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Appendix D

License(s)
and
Certification(s)



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2023

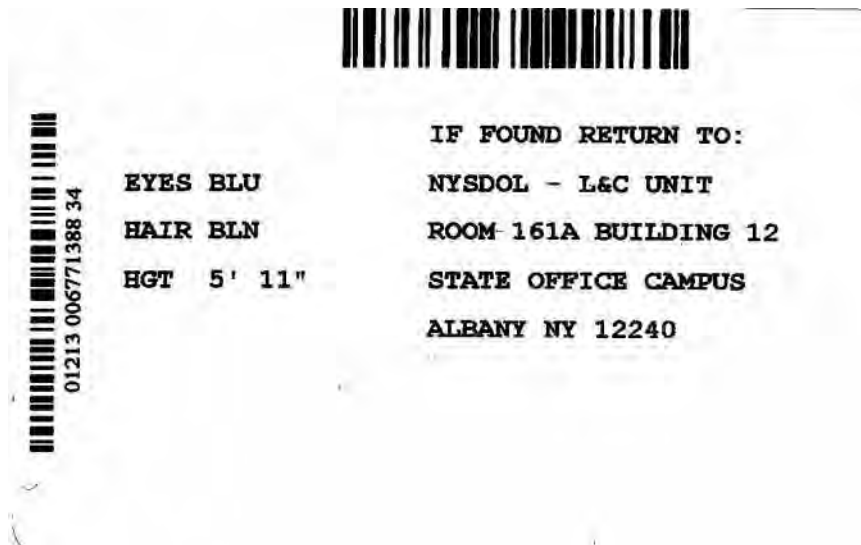
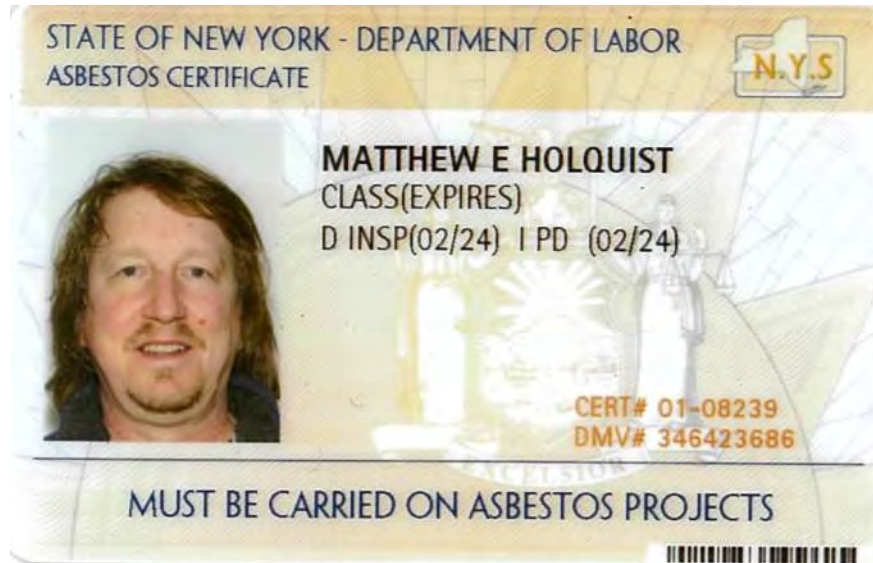
Duly Authorized Representative – Kevin Janik:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

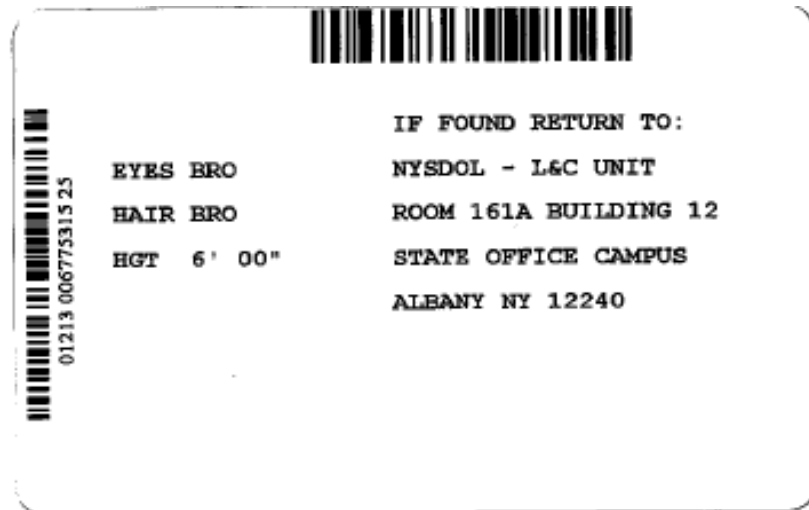
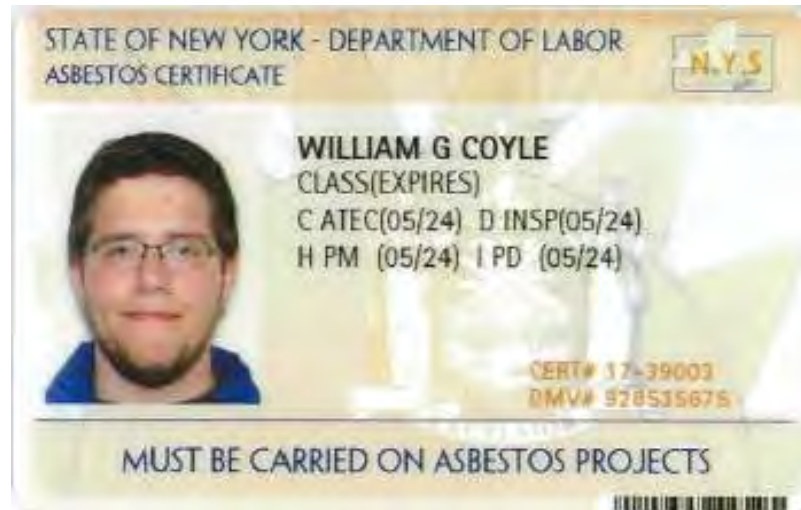
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



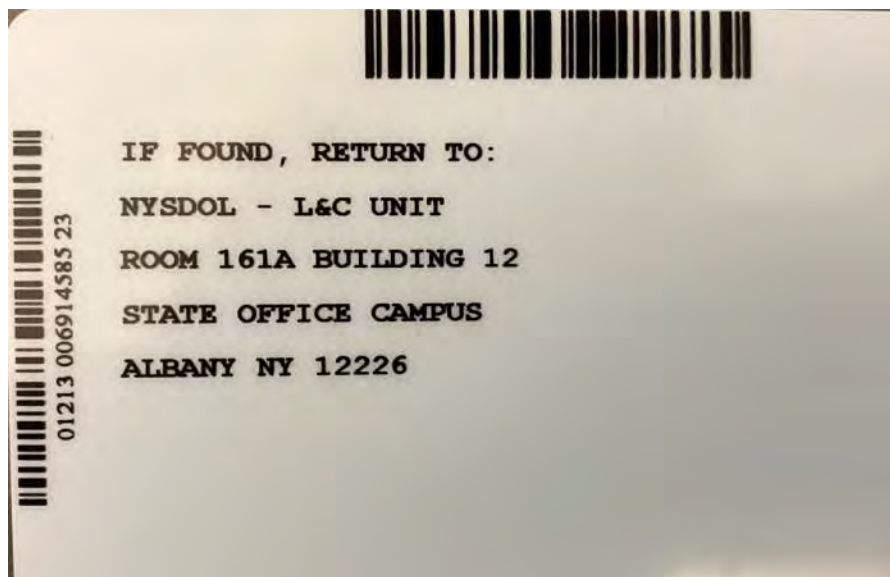
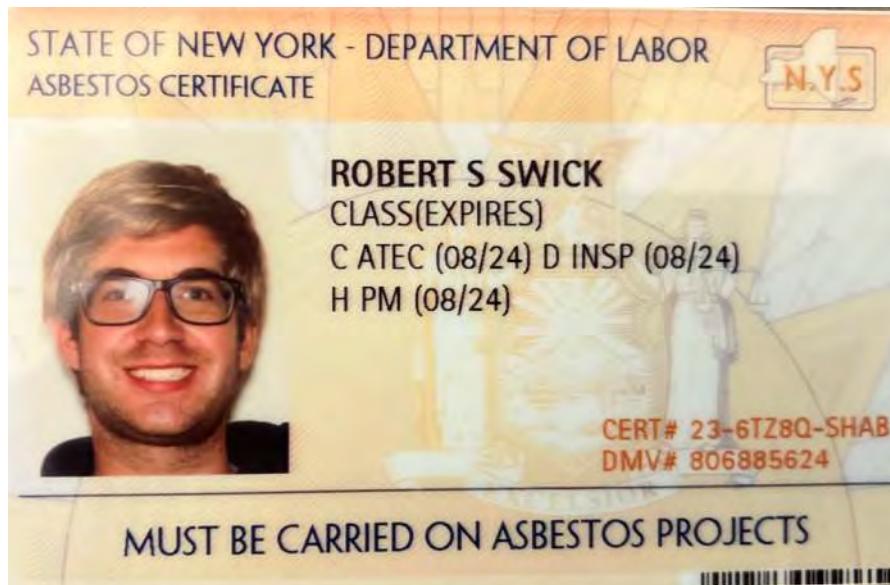
Matthew E. Holquist

D - Inspector
I - Project Designer



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

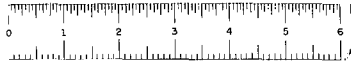


Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor

Appendix E

Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information



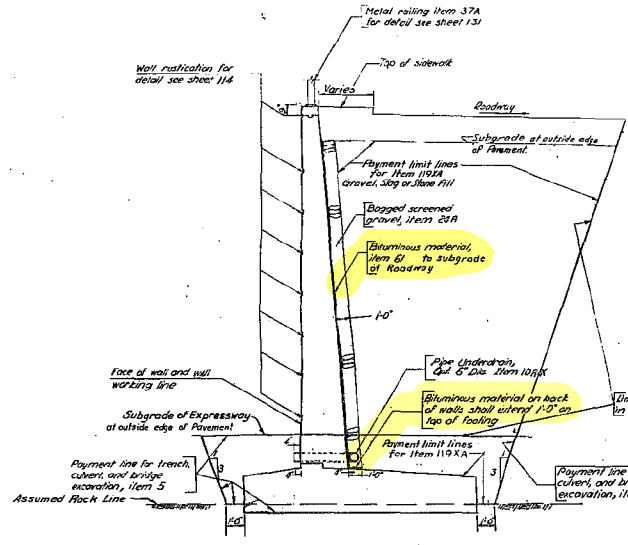
F.A.C. 59-19					
FED. NO.	STATE	FED. AD. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(1)	5	132	178

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

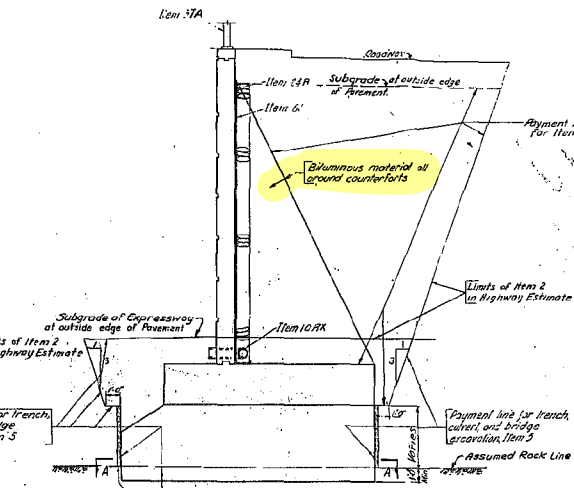
GENERAL NOTES FOR WALLS

- Design is based on 1953 Specifications of A.A.S.H.O. (modified).
- See plans and elevations of walls on wall sheets, for location and extent of wall sections, elevations of bottom of footings, location of all joints, setting layout, piles and rustication pattern.
- All concrete for wall construction is Item 185 unless otherwise indicated on sections.
- All splices shall be 40 diameters minimum.
- Minimum clear spacing of bars must be 2".
- Before placing concrete, proper provision shall be made for any anchor bolts, utilities, drainage, expansion and contraction joint details, etc. as required.
- All expansion joints in walls, as shown on plans, are to be 1/2" unless otherwise indicated; as detailed on sheet No. 114.
- All longitudinal bars shall run continuous between contraction joints unless otherwise shown, and shall end 2' clear from the joints.
- The design of footings without piles is based on an allowable bearing pressure of 8 tons per sq. ft. on rock, and 1.3 tons per sq. ft. on soil.
- Backfill must be placed simultaneously against both sides of all walls.
- For locations where 6" diameter pipe underdrain is used, see plans and elevations of walls.
- Payment lines for excavation as shown on the wall sections are to be typical for all wall sections.
- Pile footings are based on allowable pile loading of 37 tons per pile.
- Piles shown battered are on 4 on 1 in direction, indicated on plan of footing and in sections.
- Design of footings shown may be changed as required, as directed by the Deputy Chief Engineer, after excavation is made and subsurface conditions determined. If piles are required where not shown, revised footing details will be furnished by the Engineer.
- All radii and dimensions are given along the working line face of wall unless otherwise noted.
- Conditions: Piers under footing to be individual, pour footing to be individual pour; counterfort and wall to be poured monolithically.
- All cement used in the concrete items for walls shall be Portland Cement Type 2, Item 15-2, with Duxer A.E.A. (Air Entraining Agent) added. Duxer A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the water at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Duxer A.E.A. dispenser. The amount of Duxer A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 5% minimum and 5% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer. The cost of finishing and adding the Duxer A.E.A. and all the labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete item.
- The design of all wall sections is based on a certain height (from bottom of footing to top of wall) with 2'-0" intervals. The maximum height of the walls is indicated by the number of wall sections. For example: T-20 is to be used for heights varying from 16'-0" to 20'-0". If during construction, existing subsurface conditions make it necessary to lower or raise a wall beyond the limits, etc. called for wall section, the next lower or higher wall section shall be used, if ordered by Engineer.
- Minimum cover for reinforcement is 2" unless otherwise noted.
- All piles to be steel bearing H-piles (10" B.P. 42).
- A raftering cleat shall be used in Item 165, T-20's.
- FOOTING ON ROCK: All disintegrated or shattered material shall be removed to lines and levels ordered by the Engineer. Where sound rock is found below the planned levels of the bottom of footings, a depth of Class I concrete Item 203 shall be installed to the levels shown on the plans, or as directed by the Engineer. Rock removed for the levels directed by the Engineer and below the footings must be replaced by backfill of Class I concrete for walls. Subgrade of Service Road - no payment will be made at outside edge of pavement.



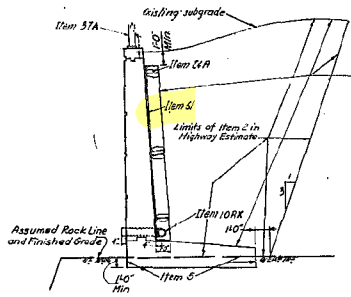
TYPICAL T-WALL SECTION IN ROCK

NOTE: Cost of pipe drain thru wall included in concrete item.



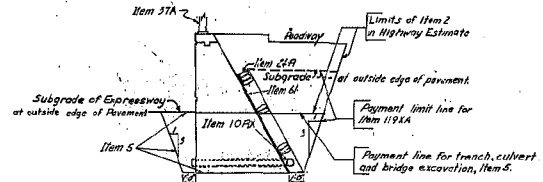
TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in full section in earth.



TYPICAL L-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in full section.

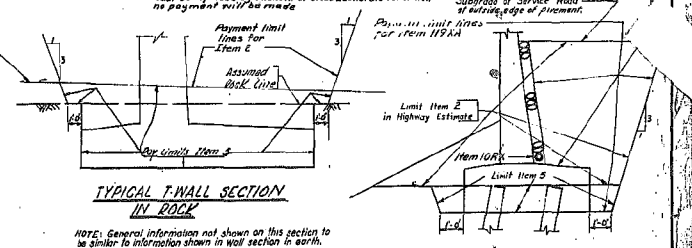


TYPICAL T-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in wall section in earth.

TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in full section.

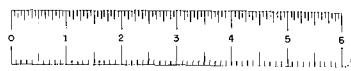


TYPICAL T-WALL SECTION ON PILES

GENERAL NOTES & PAYMENT-LINES FOR WALLS			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHER & BRILL	ENGINEERS-ARCHITECTS	DRAWN	CHECKED
		BY	BY
302 E. 44th ST. NEW YORK 17, N.Y.		NEW YORK 17, N.Y.	

SHEET NO. 132

NO AS BUILT REVISIONS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O 1953 modified (loading H 20-44)
MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, preapplied bituminous joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint Sealing Compound shall be paid for under item 351X.
 Bituminous material, Item 351, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.
 When the concrete is cured, finished and protected, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.
 Item 305B in highway estimate.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.
 Field connections shall be made with 8" dia high strength bolts or rivets. Nuts and bolts may be omitted and weld substituted if the Contractor so elects.

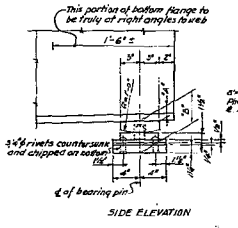
Shop paint: Red lead and oil first field coat to be satisfactory dry point. Second field coat to be gray green paint. Spinal bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead loads, corrections may be made in the thickness of concrete at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge deck to be poured 1/4" higher than elevation specified and bush hammered to exact elevation.
 All concrete used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A.E.A. Air Entraining Agent added.
 Dares A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A.E.A. dispenser. The amount of Dares A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dares A.E.A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pile concrete shall be Item 185.
 All concrete in abutments including wingwalls and footings and pier column footings shall be Item 305.
 Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footings.
 FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

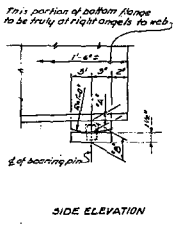
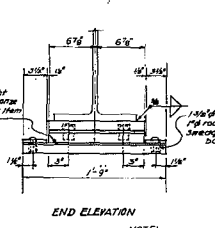
A retaining partition shall be used in Item 18 and Item 20S.
 Size of pipe sleeves and type of hangers shall be as per the (logarithmic) Gas Gage or Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	5 1/2"	3 1/2"	7"	3 1/2"	3"	5 1/2"	16 1/2"	16 1/2"	5 1/2"

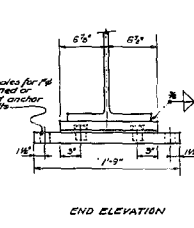
NO AS BUILT KEYWAYS
 Pipe supports for Water Line shall be included in the bid price for Item 18.5.
 Anchor Chairs with U-Bolts and pipe hangers for Gas Line to be furnished and erected by others.
 Notes in diaphragms to be provided by Contractor.



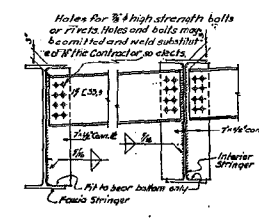
EXPANSION BEARING
Scale 1/4" = 1'-0"



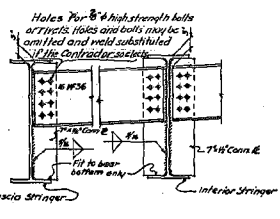
FIXED BEARING
Scale 1/2" = 1'-0"



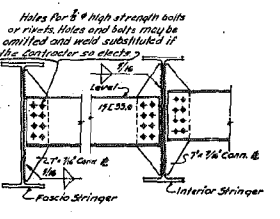
NOTE:
 1. Round top of Sole Plates to Stringer Girders.
 2. For dimensions "A" and "B" see Key Plan Sheet No. 10.



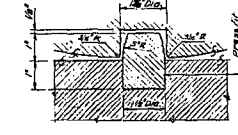
END DIAPHRAGMS AT ABUTMENTS
Scale 3/4" = 1'-0"



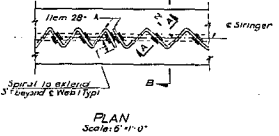
END DIAPHRAGMS AT PIERS
Scale 3/4" = 1'-0"



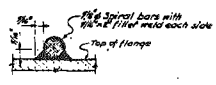
INTERMEDIATE DIAPHRAGMS
Scale 3/4" = 1'-0"



SECTION THRU DOWEL
Scale 1/2" = 1'-0"



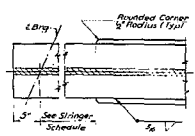
PLAN
Scale 5/16" = 1'-0"



SECTION A-A
Half Size

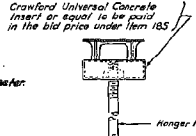


SECTION B-B
Scale 1" = 1'-0"

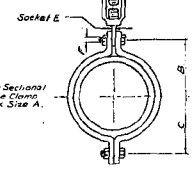


COVER PLATE DETAILS
Scale 1/2" = 1'-0"

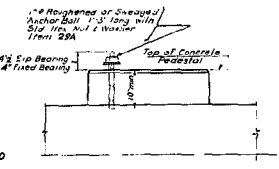
NOTE:
 All spirals shall be 1/8" plain bars with mean diameter 3".
 All spirals shall have two structural welds at each joint of contact with beam, one weld each side of rod.
 The Contractor's attention is called to the possibility of interference between the reinforcing steel in the slab and the beam spirals. To avoid this interference the bar spacing may be varied 1/8" with the understanding that the required area of steel will be placed in each 12". Even then, some bars will have to be retraced thru one or more spirals.



ANCHOR BOLT DETAIL
(TYPICAL)
Not to scale



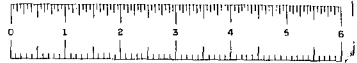
PIPE HANGER WITH TURNBUCKLE & INSERT
Scale 3" = 1'-0"



ANCHOR CHAIR WITH U-BOLT
Scale 3" = 1'-0"

Sheet No. 11

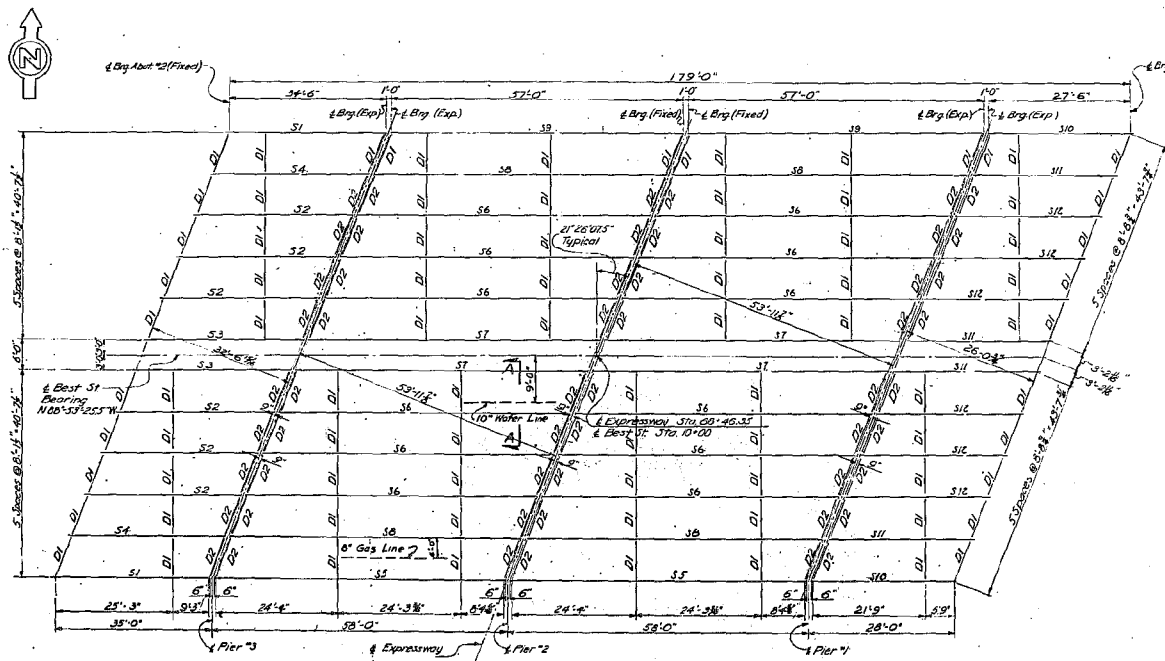
BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES	
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS	
CITY OF BUFFALO ARTERIAL	
KENSINGTON EXPRESSWAY, SEC. 1	
DE LOEW, CATHAR & BRILL ENGINEERS - ARCHITECTS 302 E. MAIN ST. NEW YORK 17, N. Y.	DRAWN V.C. CHECKED J.C. TRACED C.B.



F.A.C. 29-14

FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-371(7)		158	178

CONTRACT II



NOTE: Diaphragm Schedule D1: 15' 33.9" D2: 15' 36"

NOTE: Stringers shall be filed in regard to use plates after the bearings have been set and aligned to their proper positions on the bridge seats.

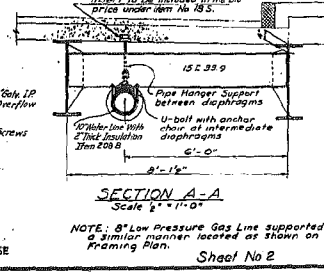
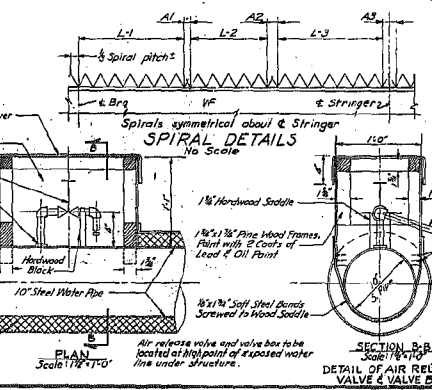
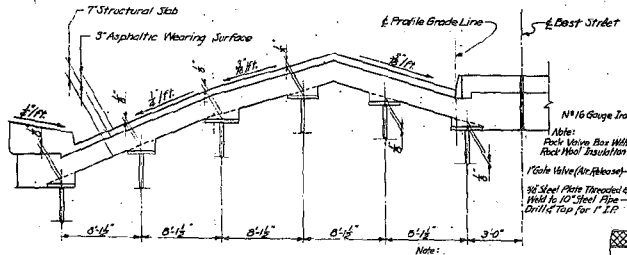
ESTIMATE OF QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL AMOUNT	FINAL
108X	5' Length Girder and Bridge Extension	CY	640	675	362.8
109X	Sewer Pipe (Vitrified) 6" Dia.	LF	100	100	
110X	Pipe Underdrain, 2" x 6" Dia.	LF	250	260	362
111X	1" 50' Packaged Concrete Type 2	Bag	1776	1252	189.8
185	Class I A Concrete for Structures	C.Y.	800	805	377.7
186	Class I Concrete	C.Y.	280	300	301.8
221	Loose, Screened Gravel	C.Y.	50	57	56.1
228X	Bar Reinforcement for Structures	Lbs	178572	185,450	18,456.3
229	Structural Steel Connectors	Lbs	3488	4100	394.9
230	Structural Steel	Lbs	338872	345,000	34,719
317	Metal Roofing	S.F.	305	400	400.9
318X	Asphalt Concrete, Type 2B	CY	50	57	56.1
31	Bituminous Material	Gal	62	65	6
381	Protective Coating for Concrete	Sq. Ft.	268	400	100
382	1/2" Dry Stone Bedding	Sq. Ft.	765	790	316
383	Steel Bearing Piles (10" BP 25)	LF	1216	1280	1216
384	Splices for Steel Bearing Piles	EA	21	25	25
385	1/2" Longitudinal Spacing for Driving Piles	Lbs	185	185	100.2
386	6"x6" Stone Curb (Bridge)	LF	652	730	693.2
387	1/4" Gravel, Slayer Stone, 211	C.Y.	183	185	128.7
301B	Furnish & Install 2" Galvanized Steel Conduit	LF	549	590	590
303B	Furnish & Install 2" Type B (30" Mount. Hgt)	EA	4	4	4
305	Massive Masonry	LA	280	290	290.2
312	1/2" 1/2" Mortar	Gal	18	18	18
313	Surface Dosing with Fine Aggregate	S.Y.	1487	1510	158.3

* With Dorex A E A. added.

STRINGER SCHEDULE													
STRINGER		BOTTOM COV.		SPIRAL SHEAR CONNECTORS				DIMENSION			HEAD LOAD		
WK	NO	SIZE	CENTER TO CENTER	SIZE	LENGTH	SECTION I	SECTION L-2	SECTION L-3	A1	A2	A3	LOAD	CAMBER
						Length	Bch	Length	Area	Length	Area		
S1	3	13WF108	34'-6"	NONE									0"
S2	6	10WF124	34'-6"	NONE									0"
S3	2	30WF108	34'-6"	NONE									0"
S4	7	30WF116	34'-6"	NONE									0"
S5	2	33WF120	37'-0"	16x36	10'-0"	4'	9'-11"	7'	10x8	12x8	3x8	3x8	1/8"
S6	12	33WF120	37'-0"	16x36	10'-0"	4'	9'-6"	6'	8'-3"	9'	3x8	3x8	4 3/8"
S7	4	33WF120	37'-0"	16x36	10'-11"	2x	10'-8"	8'	7'-3"	8x2	2x8	2x8	1/8"
S8	2	33WF120	37'-0"	16x36	11'-6"	10'-8"	2x	10'-3x8	6x8	7'-6"	10'	2x8	3 1/8"
S9	2	33WF120	37'-0"	16x36	10'-11"	2x	10'-0"	8'	8'-0"	16'	2	2	1 3/8"
S10	3	33WF120	27'-6"	NONE									0"
S11	3	24WF36	27'-6"	NONE									0"
S12	6	24WF36	27'-6"	NONE									0"

NOTE: Cover B's symmetrical about Stringer. Camber of Beam to be measured with beam lying on its side.

NOTE: Spacing between pipe supports 15' 2 1/2" 18' 4" For details of pipe supports see Sheet No. 11.



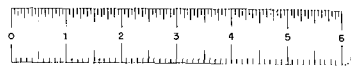
REVISION TO QUANTITIES TABLE			

BEST STREET OVER EXPRESSWAY FRAMING PLAN
Scale: 1/8" = 1'-0"

STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL
KENSINGTON EXPRESSWAY, SEC. 1

DELEW, CATHER & BRILL
ENGINEERS - ARCHITECTS
301 E. 40th St. NEW YORK 17, N.Y.

DRAWN: C.B.
CHECKED: C.B.
TRACED: C.B.



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O. 1953 modified (loading H 20-44)
 MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, preplaced aggregate joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint Sealing Compound shall be paid for under Item 351X.

Bituminous material, Item 351, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.
 When the concrete is cured, finished and if necessary, rubbed, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.
 Item 305B in highway estimate.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.

Field connections shall be made with 8" dia high strength bolts or rivets. Nuts and bolts may be omitted and weld substituted if the Contractor so elects.

Shop paint: Red lead and oil first coat to be applied to steel joints. Second coat to be gray green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of concrete sections of roadway and side walks. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.

Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.

The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.

All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge decks to be poured 1/4" higher than elevation specified and bush hammered to exact elevation.

All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A. E. A. Air Entraining Agent added.

Dares A. E. A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A. E. A. dispenser. The amount of Dares A. E. A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.

The cost of furnishing and adding the Dares A. E. A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.

All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pile concrete shall be Item 185.

All concrete in abutments including wingwalls and footings and pier column footings shall be Item 305.

Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footing.
 FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

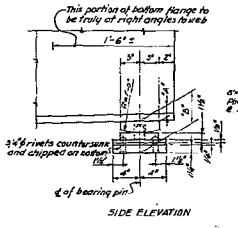
Retaining masonry shall be used in Item 18 and Item 205.

Size of pipe sleeves and type of hangers shall be specified with the request for Gas Line or Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

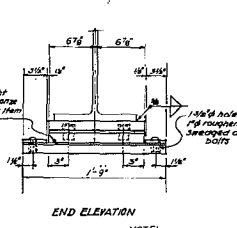
PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	5 1/2"	3 1/2"	7"	3 1/2"	3"	5 1/2"	1 1/2"	5 1/2"	5 1/2"

NO AS BUILT REVISIONS

NOTE: Pipe supports for Water Line shall be included in the bid price for Item 18.5. Anchor Chairs with U-Bolts and pipe hangers for Gas Line to be furnished and erected by others. Notes in diaphragms to be provided by Contractor.

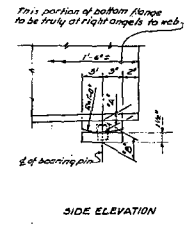


EXPANSION BEARING
Scale 1/4"=1'-0"

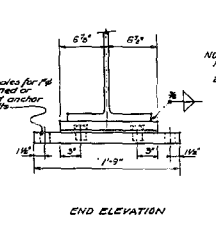


END ELEVATION

NOTE: Anchor bolts shall be accurately placed by means of a template used set 1/8" into masonry.

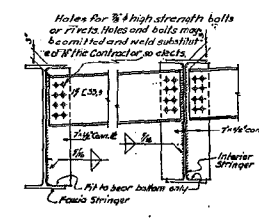


FIXED BEARING
Scale 1/4"=1'-0"

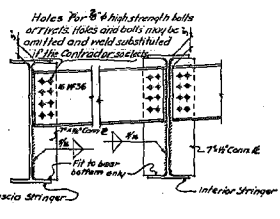


END ELEVATION

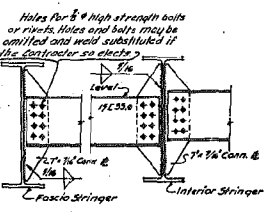
NOTE: 1. Bevel top of Sole Plates to Stringer Groove.
2. For dimensioning, see and/or see Key Plan Sheet No. 10.



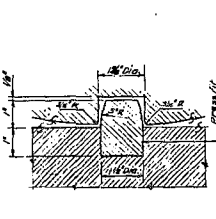
END DIAPHRAGMS AT ABUTMENTS
Scale 3/4"=1'-0"



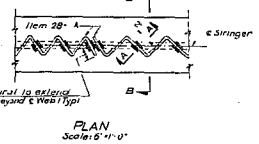
END DIAPHRAGMS AT PIERS
Scale 3/4"=1'-0"



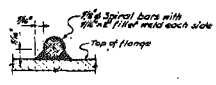
INTERMEDIATE DIAPHRAGMS
Scale 3/4"=1'-0"



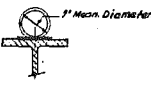
SECTION THRU DOWEL
Scale 1/2"=1'-0"



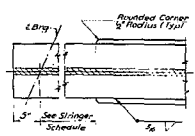
PLAN
Scale 1/2"=1'-0"



SECTION A-A
Half Size



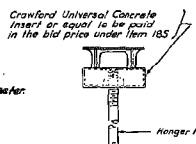
SECTION B-B
Scale 1/2"=1'-0"



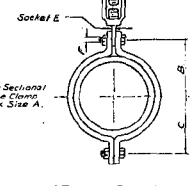
COVER PLATE DETAILS
Scale 1/2"=1'-0"

NOTE: Special precautions must be exercised when welding exposed edge of flange to avoid any possibility of undercut or other weakness of flange.

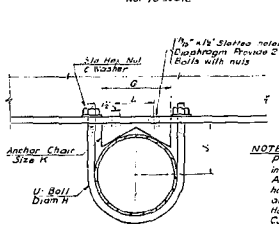
NOTE: All spirals shall be 1/2" plain bars with mean diameter 7". All spirals shall have two structural welds at each point of contact with beam, one weld each side of rod.
 The Contractor's attention is called to the possibility of interference between the reinforcing steel in the slab and the beam spirals. To avoid this interference the bar spacing may be varied 1/2" with the understanding that the required area of steel will be placed in each 7". Even then, some bars will have to be retraced thru one or more spirals.



ANCHOR BOLT DETAIL
(TYPICAL)
Not to scale



PIPE HANGER WITH TURNBUCKLE & INSERT
Scale 3/4"=1'-0"

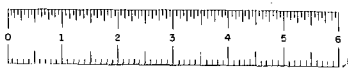


ANCHOR CHAIR WITH U-BOLT
Scale 3/4"=1'-0"

BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES

STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1

DE LEW, CATHR & BRILL	DRAWN	A.L.
ENGINEERS - ARCHITECTS	CHECKED	J.C.
302 E. MAIN ST., NEW YORK 17, N. Y.	TRACED	28

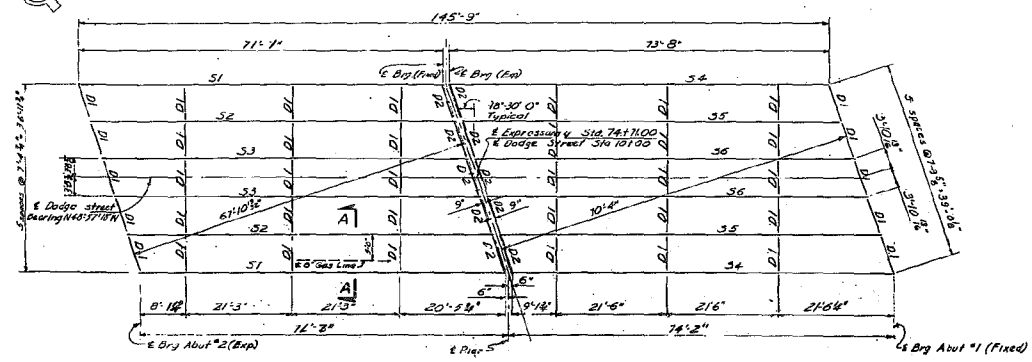


F.A.C. 58-19

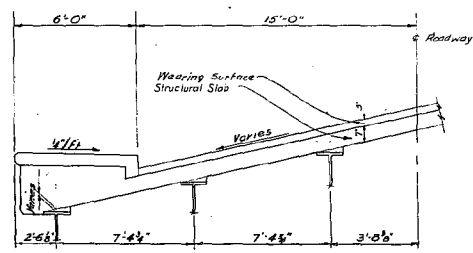
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-311(1)	171	171	178

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II



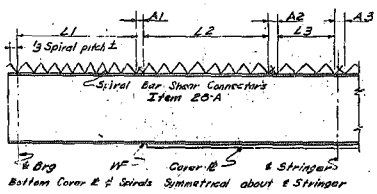
FRAMING PLAN
Scale 3/4" = 1'-0"



DIAGRAMMATIC SECTION
Not to Scale

STRINGER	M.K. NO.	SIZE	BOTTOM COIL & BRIST		SPIRAL SHEAR CONNECTORS			DIMENSION			CAMBER			
			SIZE	LENGTH	SECTION L-1	SECTION L-2	SECTION L-3	A-1	A-2	A-3		DEAD LOAD		
31	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/8"
32	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 1/2"
33	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/4"
34	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 1/2"
35	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 1/2"
36	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 1/2"

NOTE: Number of beam to be measured with beam lying on its side.

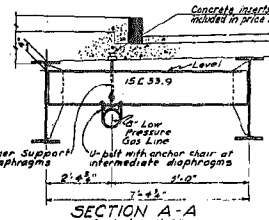


STRINGER DETAILS
Not to Scale

NOTE: Field welding of spiral reinforcement will not be permitted.

ITEM No.	DESCRIPTION	UNIT	TOTAL		FINAL
			NEAR	ROUNDED	
5	Trench, Culvert and Bridge Excavation	C.Y.	692	790	466
10R1	Sewer Pipe (14" Dia.) 6' Dia.	L.F.	28	37	0
10R2	Pipe Underdrain 6" Dia.	L.F.	214	240	214
12B-2	Portland Cement, Type 2	Bbl	1353	1500	1223
13	Class I Concrete for Structures	C.Y.	289	358	295
20S	Class I Concrete	C.Y.	171	152	169
24A	Bagged Screened Gravel	C.Y.	116	124	86
24B	Bar Reinforcement for Structures	Lb.	69714	102,300	100,335
28A	Spiral Bar Shear Connectors	Lb.	2586	4,690	4,420
28A	Structural Steel	Lb.	1,90280	176,600	175,358
27A	Welded Rebar	Lb.	298	400	278
32 2X	Asphalt Concrete, Type 9B	Ton	85	90	42
61	Bituminous Material	Sq. Ft.	159	150	65
66	Protective Coating for Concrete	Sq. Ft.	91	82	51
13A	Cast Iron Pipe 6" Diam.	S.F.	2768	2,940	2104
65T	Temporary Timber Sheet Piling	L.F.	302	320	302
64 10	12" Stone Curbs (Bridge)	Sq. Yd.	450	465	1106
102A	Gravel, Size or Stone Fill	C.Y.	160	160	124
301 2	Vertical and Inclined 2" Galvanized Steel Cans	L.F.	2	2	2
303 2	Horizontal Light Steel Cans, Type A (2" Mount NGL)	Sq. Yd.	2	2	2
531	Joint Sealing Compound	Lb.	7	9	7
573	Surface Dusting with Fine Aggregate	Sq. Yd.	504	510	503

W/ W/8 Dorex A.E.A. added.



SECTION A-A
Scale 1/4" = 1'-0"

NOTE: Distance between pipe supports shall be 12 ft. ±. For details of pipe supports see Sheet No. 14.

REVISION TO QUANTITY TABLE

DODGE STREET OVER EXPRESSWAY FRAMING PLAN

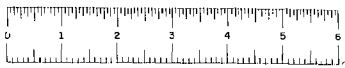
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL

KENSINGTON EXPRESSWAY, SEC. NO. 1

DE LEUN, CATHER & BRILL
ENGINEERS - ARCHITECTS

303 E. 44th ST. NEW YORK 17, N.Y.

DRAWN: H.S.M.
CHECKED: F.C.
TRACED: C.B.



F.A.C. 59-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(II)	181	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.S.H.C. 1953 modified - loading 14.20'-315'-4".
 MATERIALS & FABRICATION Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, precast, bituminous joint material, asphalt sheet piling and 1/2" asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint sealing compound shall be paid for under Item 3511.
 Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the top of footings to the bottom of pavement.
 When the concrete is cured, finished and (if ordered) rubbed, and the surface is clean and dry, the contractor shall apply a water-soluble silicone solution to all exposed surfaces except the underside of slab.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer Bridges.

Field connections shall be made with 3" high strength bolts or rivets. Holes and bolts may be omitted and Weld substituted if Contractor so elects.
 Step joints: Red lead and oil flint field coat to be cast in grey paint. Second field coat to be grey green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of wearing surface of roadway and side walk. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the subcontracting notes which briefly outline the anticipated structure conditions at the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge seats be poured 1/2" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dorex A.E.A. Air-Entraining Agent added.
 Dorex A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dorex A.E.A. dispenser. The amount of Dorex A.E.A. to be added shall be of such a quantity as to insure a controlled air-entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4.5% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dorex A.E.A. and all other equipment necessary to control the air-entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pier concrete shall be Item 185. Concrete in Abutment Wingwalls including footings shall be Item 185.
 All concrete in pier footings and pedestals underfootings shall be Item 205.
 Maximum payment limits for excavation, Item 5, in rock shall be the real lines of the footings on rock. See note No. 23 sheet No. 132.

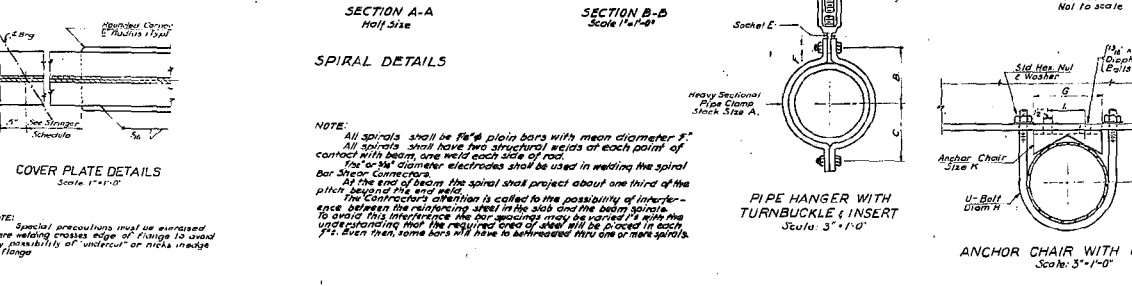
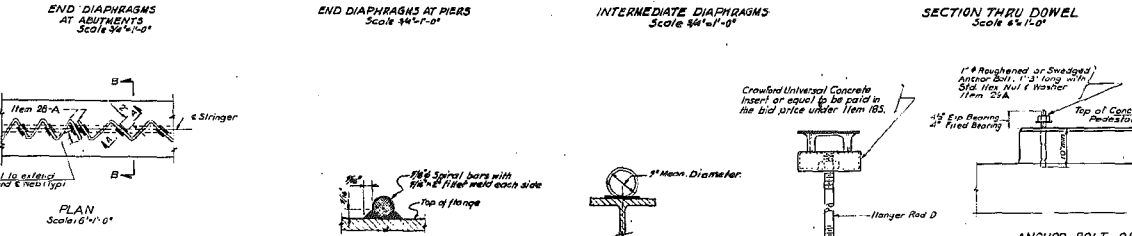
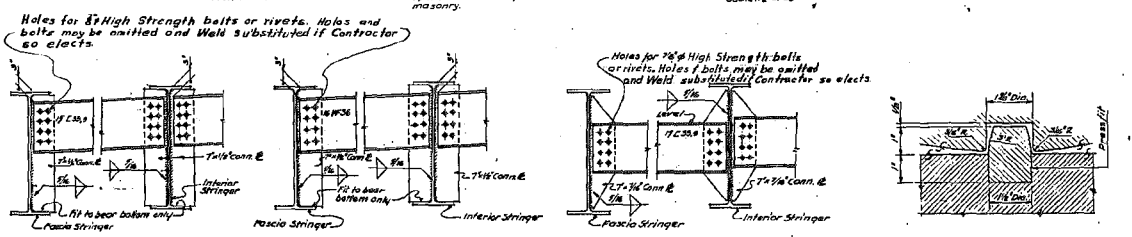
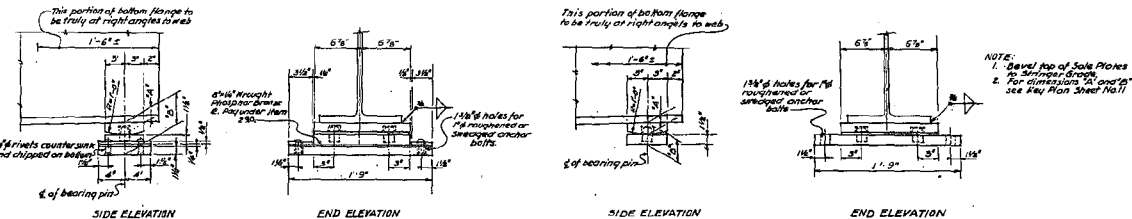
A retarding densifier shall be used in Item 85 and 20 5.
 Size of pipe sleeves and size and type of hangers shall be verified with the Engineers Gas Corp. or Division of Water of the City of Buffalo before fabrication of diaphragms. See Sheet No. 118 for additional notes.

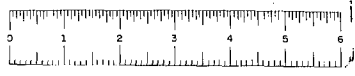
SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	12"	7"	6"	3"	1"	3"	8"	6"	1/2"	3/4"	3/4"

NO AS BUILT REVISIONS

DODGE STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES		DRAWN
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS		A.L.
CITY OF BUFFALO ARTERIAL		C.E.
KENSINGTON EXPRESSWAY, SEC. 1		C.B.
DE LEUW, CATHY & BRILL	ENGINEERS - ARCHITECTS	TRACED
802 E. 44th ST., NEW YORK 17, N.Y.		

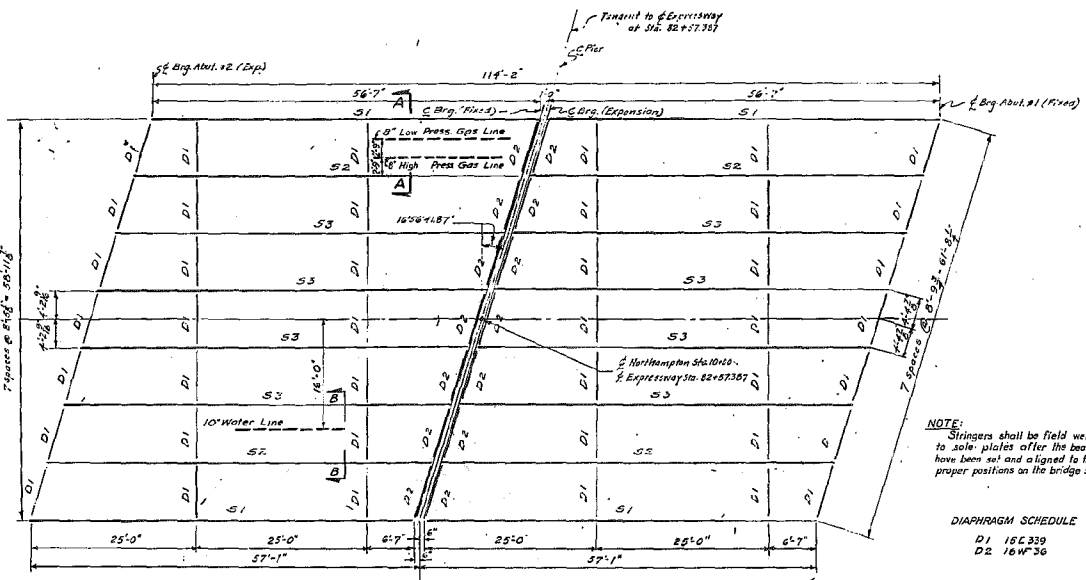
Sheet No 12





FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	BIBET NO.	TOTAL SHEETS
	N.Y.	U-37107	1966	186	178

CONTRACT II



FRAMING PLAN
Scale: 1/8" = 1'-0"

NOTE:
Stringers shall be field welded to sole plates after the bearings have been set and aligned to their proper positions on the bridge seats.

DIAPHRAGM SCHEDULE

- D1 15C339
- D2 16WF36

** Splices ordered are for either size of piles.

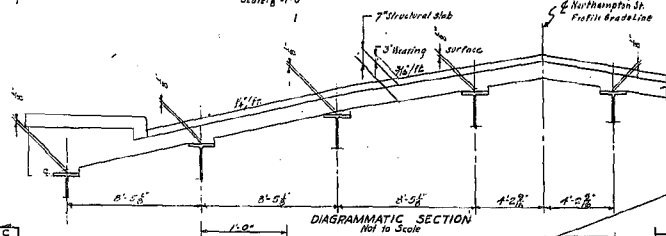
ITEM	DESCRIPTION	UNIT	TOTAL		FINALS
			NEAR	AWAY	
1	Trench, Curb and Bridge Excavation	CY	305	23.0	280
179A	Sewer Pipe (4" Dia.) 8' Dia.	LF	75	15	0
110B1	Pipe Underdrain, 6" Dia.	LF	180	18.5	174
110C3	Drainage Channel, Type 2	EA	145	14.5	14.5
183	Class A Concrete for Structures	CY	350	75.8	324
202	Class I Concrete	CY	998	72.0	843
214	Approved Gravel	CY	112	11.2	101
224A	Bar Reinforcement for Structures	LB	92,779	9,520	81,003
224	Spiral Bar Shear Connectors	EA	8,881	2,780	4,111
234	Structural Steel	LB	186,005	171,500	170,205
37A	Meat Rolling	LF	221	2.35	221
37B1	Structural Concrete, Type 2-B	CU	107	115	100
37	Reinforcing Equipment for Drilling Piles	EA	125	120	11
381	Protective Coating for Concrete	SA	113	120	14
451	Steel Bearing Piles (4" Dia.)	EA	205	2,200	303
452	Steel Bearing Piles (2" Dia.)	EA	480	200	280
45A	Splices for Steel Bearing Piles	EA	35	37	0
47	Reinforcing Equipment for Drilling Piles	EA	166	190	0
481C	8" Stone Curb, 1' Radius	LF	243	225	234
412A	Gravel, Slope or Slope Fill	CY	368	370	814
481B	Form and Install 8" Reinforced Steel Conduit	LF	360	380	335
481	Steel Line Pipe (6" dia.)	EA	72	2	2
505A	Finish Light Standoff, Type A (18" Mount, High)	EA	268	270	221
505	Miscellaneous Metals	EA	268	270	221
511	Joint Sealing Compound	EA	9	9	4
513	Surface Drilling with Pipe Boremate	SY	654	690	625
5207	Temporary Steel Sheet Piling	SY	1,800	1,572	0

STRINGER SCHEDULE

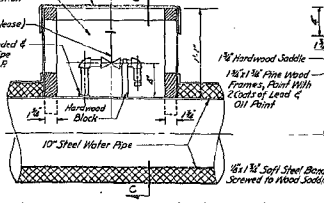
STRINGER	Bot Cover @	SPIRAL SHEAR CONNECTORS			CAMBER							
		Section L-1	Section L-2	Section L-3								
HR	Amount	Size	Length	Pitch	Section L-1	Section L-2	Section L-3	BEAR	TOTAL			
S1	4	33WF130	16'-0"	42'-0"	5'-0"	45'	10'-0"	5'	7'-0"	16'-0"	1'-0"	2'-0"
S2	4	33WF130	16'-0"	42'-0"	10'-0"	4'	10'-0"	6'	7'-0"	9'-0"	1'-0"	1'-0"
S3	8	33WF130	16'-0"	42'-0"	10'-0"	3'	10'-0"	2'-0"	7'-0"	5'	4'	16'-0"

Note: Camber of beam to be measured with beam lying on its side.

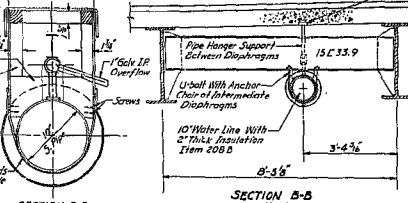
Note:
Insulation shall be glass fiber pipe insulation in one piece molded sections 2" thick, as req'd. by Gustin-Brown Mfg. Co. or equal.
Pipe insulation to be furnished with vapor barrier jacket of tough Kraft roll laminate.
Insulated pipe insulation shall be covered with Aluminum weather-proof jacketing as req'd. by Childers Mfg. Co. or equal.



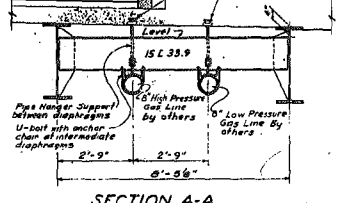
DIAGRAMMATIC SECTION
Not to Scale



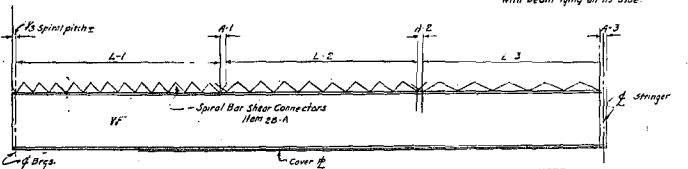
SECTION C-C
Scale 1/2" = 1'-0"
DETAIL OF AIR RELEASE VALVE & VALVE BOX



SECTION B-B
Scale 2" = 1'-0"
(Intermediate Diaphragms Only)



SECTION A-A
Scale 1/2" = 1'-0"
(Intermediate Diaphragms Only)



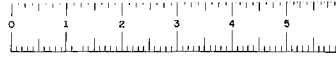
Bottom Cover Plate and Spirals symmetrical about 4 stringers.

STRINGER DETAILS
Not to Scale

NOTE:
Field welding of spiral reinforcement will not be permitted.

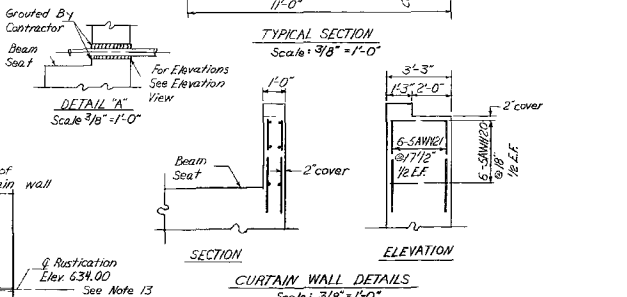
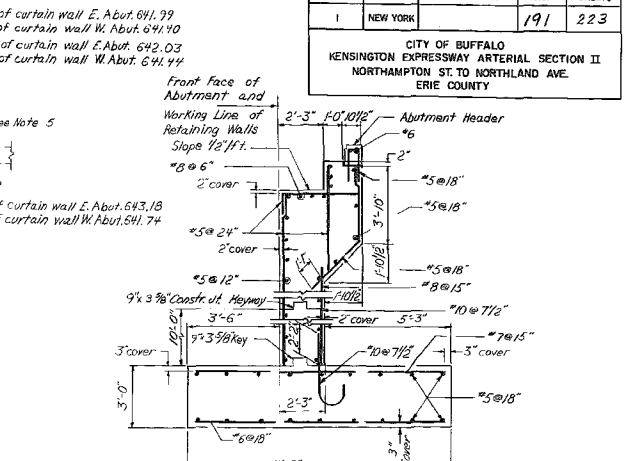
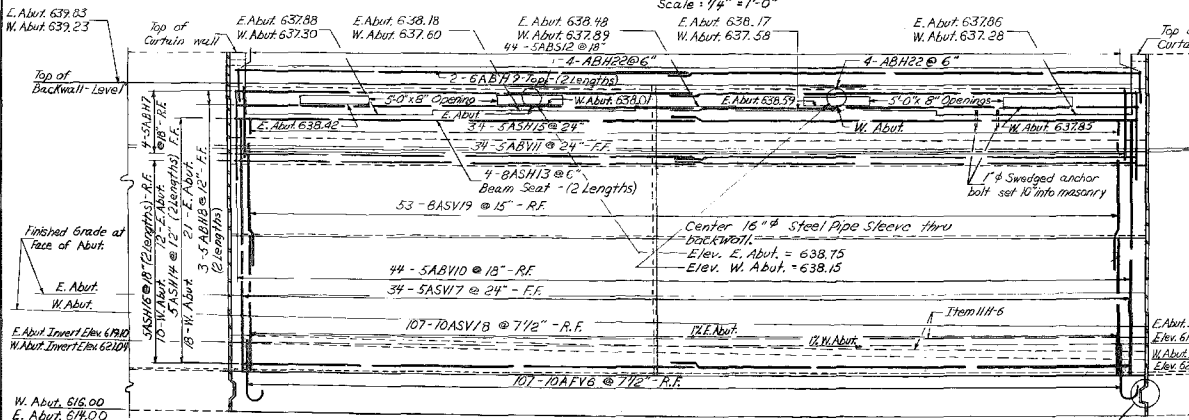
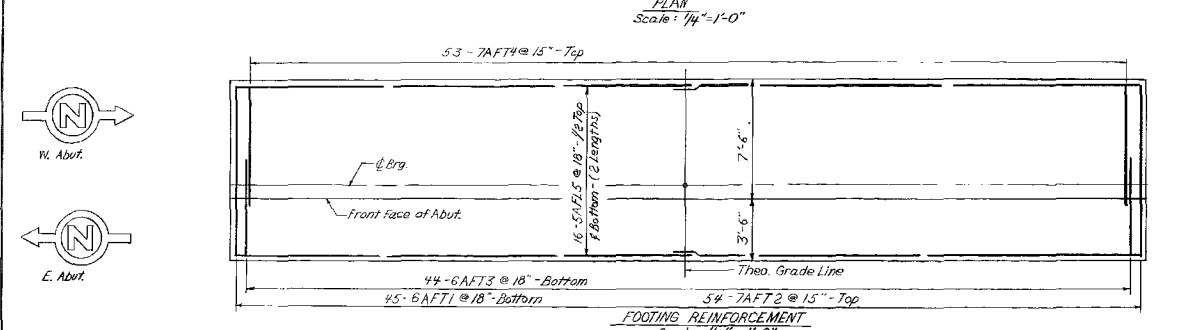
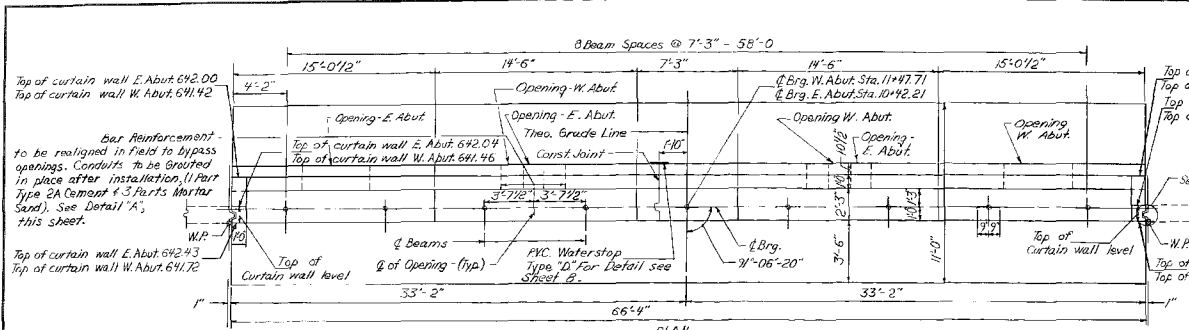
FINAL QUANTITY REVISION			
NORTHAMPTON STREET OVER EXPRESSWAY FRAMING PLAN			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHY & BELL	DRAWN	K.C.C.	
ENGINEERS - ARCHITECTS	CHECKED	R.C.C.	
802 E. 42nd St.	NEW YORK 17, N.Y.	TRACER	28

Sheet No. 2



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		191	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures. Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the Wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Vertical Surfaces, Bridge Seats, including the area under the Bearings, Exposed Vertical Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Trowel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Pay Lines at Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Cantilet Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the foundation pressure does not exceed 10 tons per square foot.

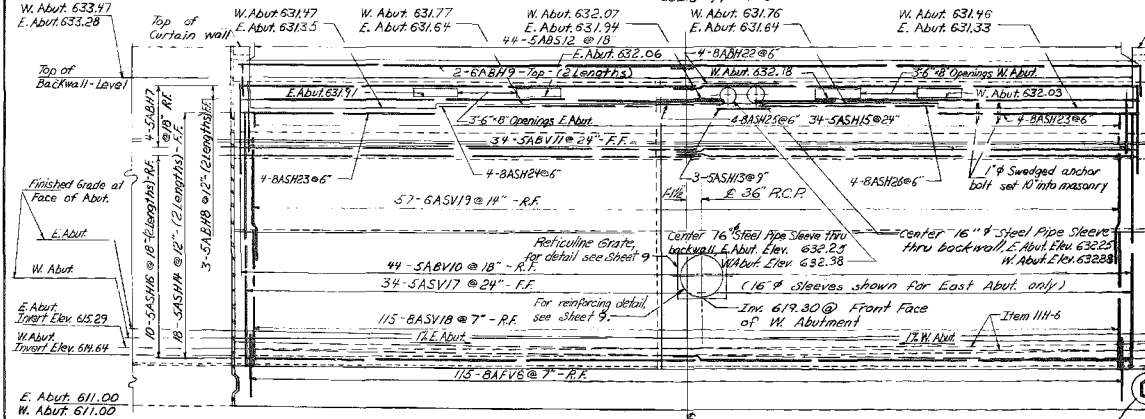
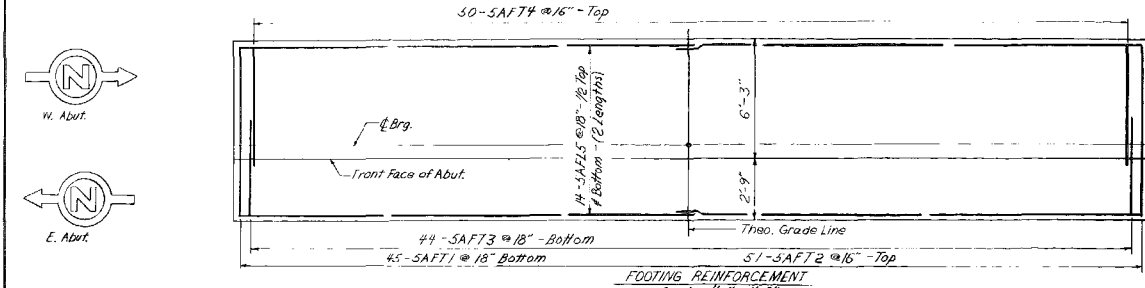
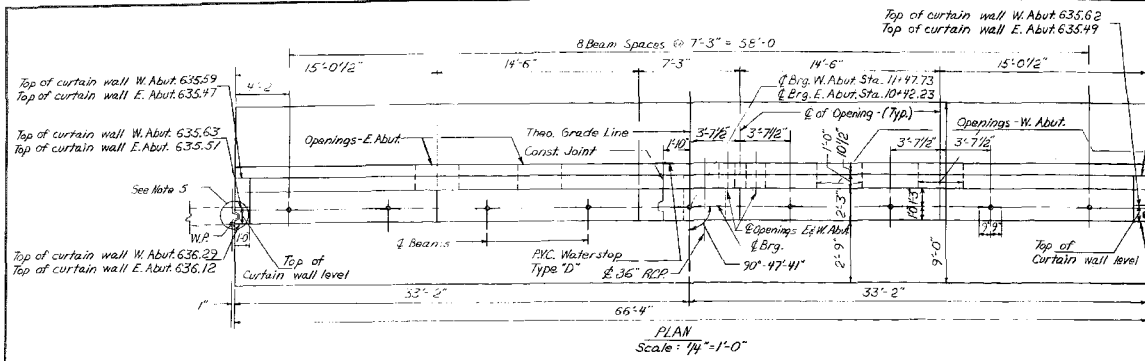
Date: JULY 14, 1957
In Charge Of: H. G. COLES
Designed By: W. D. SWECKER
Traced By: J. F. MEYER
Checked By: W. D. SWECKER

BRIDGE NO. 1

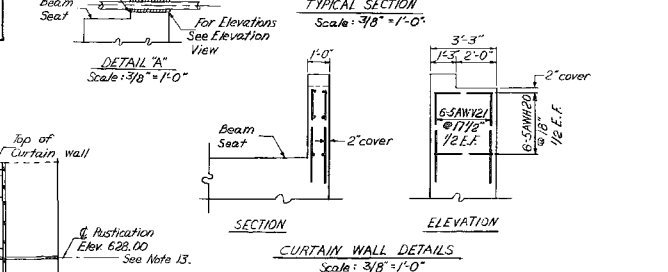
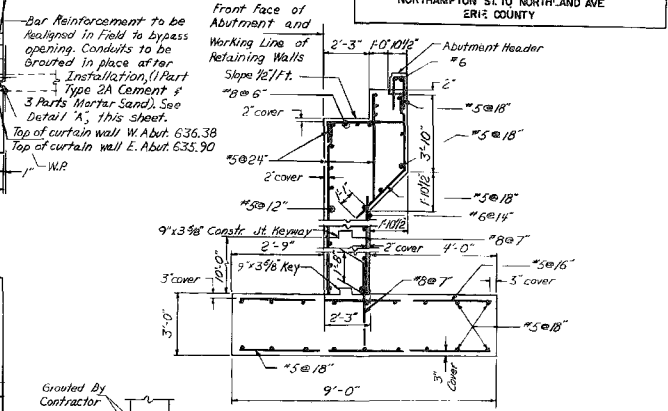
EAST UTICA STREET
OVER KENSINGTON EXPRESSWAY
ABUTMENT DETAILS

PREPARED AND RECOMMENDED
By: *W. D. Swecker* N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-57
McFARLAND-JOHNSON ENGINEERS

BRIDGE SHEET 3 OF 10



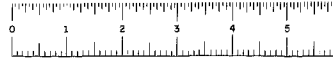
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		201	223
CITY OF BUFFALO KENSINGTON EXPRESSWAY ARTERIAL SECTION II NORTHAMPTON ST. TO NORTH AND AVE ERIE COUNTY				



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures.
 - Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Reinforcing Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Travel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Ray Lines of Abutment see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Conduit Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the Foundation Pressure does not exceed 10 tons per square foot.

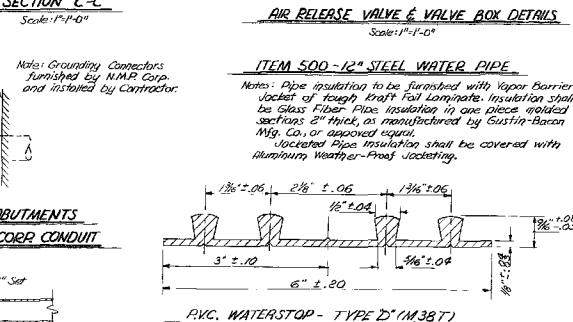
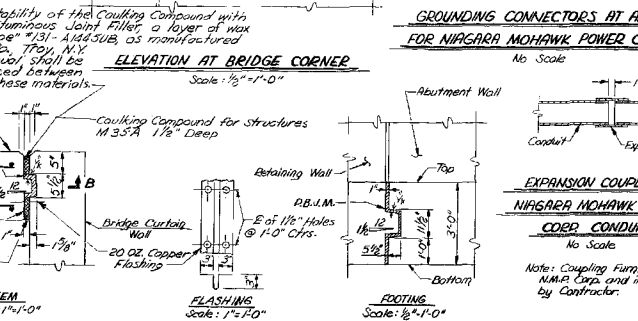
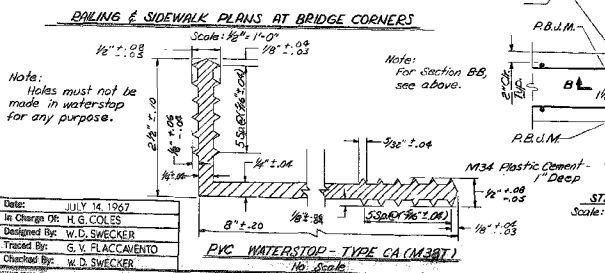
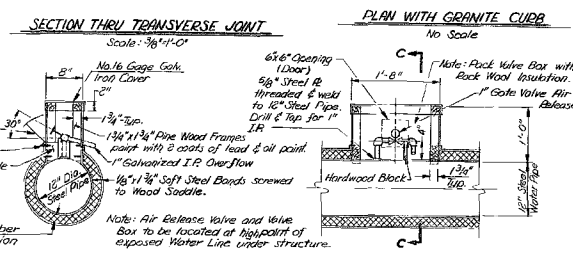
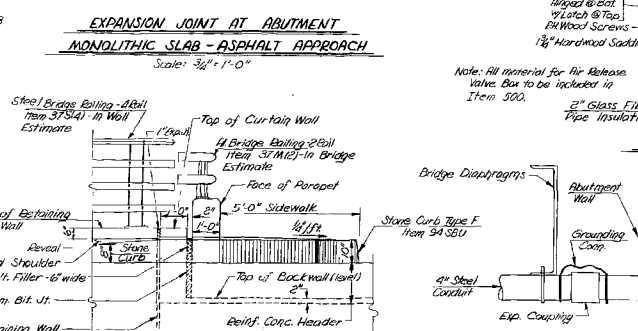
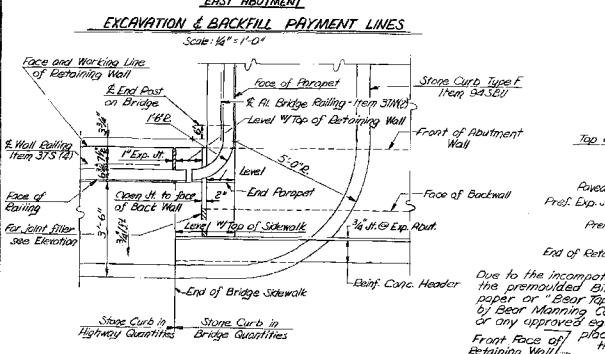
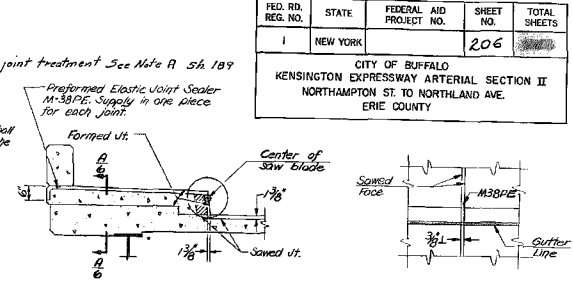
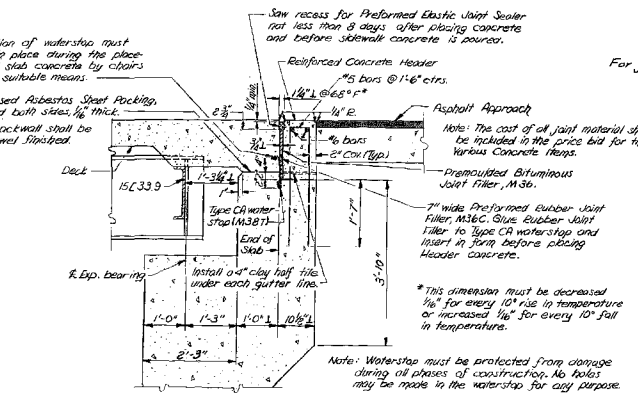
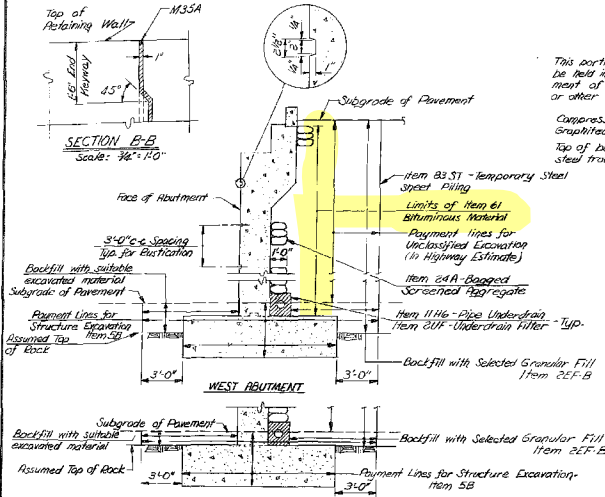
Date:	JULY 14, 1967
In Charge Of:	H. G. COLES
Designed By:	W. D. SWICKER
Traced By:	J. F. MEYER
Checked By:	W. D. SWICKER

BRIDGE NO. 2	
EAST FERRY STREET OVER KENSINGTON EXPRESSWAY ABUTMENT DETAILS	
PREPARED AND RECOMMENDED BY	N.Y.S.P.E. LIC. NO. 20182 DATE 7-23-67
MCFARLAND JOHNSON	ENGINEERS

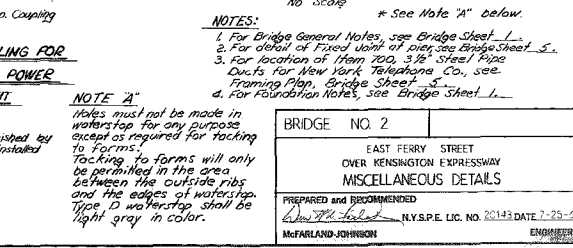
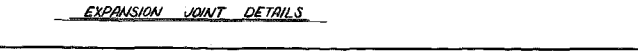
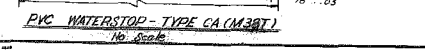


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		206	

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



Date: JULY 14, 1967
In Charge Of: W.G. COLLIER
Designed By: W.D. SWECKER
Traced By: G.V. PLACCAVENTO
Checked By: W.D. SWECKER



BRIDGE NO. 2	EAST FERRY STREET OVER KENSINGTON EXPRESSWAY MISCELLANEOUS DETAILS
PREPARED AND RECOMMENDED McFarland-Johnson	N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-67 ENGINEERS

Asbestos-Containing Materials Inspection

FOR

BIN 1022610
Dodge Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates
300 State St #201
Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5
100 Seneca Street
Buffalo, NY 14203

PIN – 5512.52.123
D038277

Watts Project No. 20220255
August 2023, Revised September 2023

Submitted by:

Watts
Architects
&Engineers

BUFFALO / SYRACUSE / NEW YORK

watts-ae.com



Watts Project Contact and Asbestos Fact Sheet



**Watts
Architects
& Engineers**

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Suite 300
Buffalo, NY 14203

Andrew Klimek, CHMM, PG
Project Manager, Env. Dept. Manager
aklimek@watts-ae.com
716 206 5120

BUFFALO / SYRACUSE / NEW YORK watts-ae.com

Name and Address of Building/Structure

BIN 1022610 - Dodge Street Bridge over
Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers
Matthew E. Holquist (NYS DOL Cert #01-08239)
Robert S. Swick (NYS DOL Cert #20-05731)
William G. Coyle (NYS DOL Cert #17-39002)

Date(s) the Inspection Was Conducted

May 3 & 10, 2023

Table of Contents

Watts Project Contact and Asbestos Fact Sheet	i
Table of Contents	ii
1.0 / Introduction	1
2.0 / Inspection Results	1
3.0 / Inspection Procedures	4
4.0 / Inspection Limitations	5
5.0 / Conclusions and Recommendations	6
Asbestos Bulk Sample Summary Table.....	7

Appendices

Appendix A – Photos

Appendix B – Figures

 Figure 1 – Project Location Map

 Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan
and Project Information

1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Dodge Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022610) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 – Dodge Street Bridge over NYS Route 33
- BIN 1022620 – Northampton Street Bridge over NYS Route 33
- BIN 1022630 – East Utica Street Bridge over NYS Route 33
- BIN 1022640 – East Ferry Street Bridge over NYS Route 33
- BIN 1022609 – Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Because the original asbestos survey was completed in 2002 for this bridge, additional samples of previously tested suspect ACM were required in order to comply with current sampling regulatory protocol. Watts collected a total of fifteen (15) bulk samples to represent the six (6) identified suspect ACM that are present at the structure (and were not previously sampled or additional samples were required to supplement the sample count to current regulatory protocols). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022610 – Dodge Street Bridge over Kensington Expressway (NYS Route 33).

Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Abutment / Retaining Wall Caulking ¹	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Sheet Packing ¹	East End of Bridge Between Deck & Abutment	~94 SF	Non-Friable	Good	210.3312
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

¹ - ACM was previously identified during a former ACM survey/inspection. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding this ACM.

Confirmed ACM Details

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested (and referred to as Brown Joint Sealer) and identified as an ACM during the 2002 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report. This ACM is homogeneous with the asbestos-containing abutment / retaining wall caulking that has been identified throughout the Kensington project corridor.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022610, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Dark Grey Sheet Packing

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2002 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 94 square feet (approximately 47 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

Inaccessible Assumed ACM

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

Inaccessible Assumed ACM Details

Waterproofing – Item 61 – Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A – Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used Dodge professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- **Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 94 square feet (47 square feet each side) of dark grey sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022609.
- **Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos-containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.
- **Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- **Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot)** – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.

Asbestos Bulk Sample Summary Table

BIN 1022610 – Dodge Street Bridge over Kensington Expressway (NYS Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5512.52.123

Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022610-01	Brown Abutment Joint Filler	NE Wing Wall Joint	None Detected
1022610-02	Brown Abutment Joint Filler	NE Abutment/Wing Wall Joint	None Detected
1022610-03	Masonry Coating (Light Grey)	East Abutment, North Side	None Detected
1022610-04	Masonry Coating (Light Grey)	Center Pier, North End	None Detected
1022610-05	Grey and Orange Bearing Pad	East Abutment, North Middle Bearing	None Detected
1022610-06	Grey and Orange Bearing Pad	Center Pier, North Bearing	None Detected
1022610-07	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022610-08	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022610-09	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022610-10	Grey Railing / Abutment-Retaining Walk Caulk	NE Railing / Abutment-Retaining Wall	None Detected
1022610-11	Grey Railing / Abutment-Retaining Walk Caulk	NE Railing / Abutment-Retaining Wall	None Detected
1022610-12	Grey Railing / Abutment-Retaining Walk Caulk	SE Railing / Abutment Retaining Wall	None Detected
1022610-13	Grey Deck Expansion Joint Sealer	West Expansion Joint, South Side	None Detected
1022610-14	Grey Deck Expansion Joint Sealer	Middle Expansion Joint, North Side	None Detected

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022610-15	Grey Deck Expansion Joint Sealer	West Expansion Joint, South Side	None Detected

Appendix A

Photos



Photo 1 - View to the northwest of the northern side Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 2 - View to the northwest of the southern side Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610). Repairs to the structure were being conducted at the time.



Photo 3 - View to the north from the middle of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 4 - View of the BIN plate located on the southwestern corner of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 5 – View of the BIN plate located on the adjacent fence at the northeast quadrant of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 6 – View of the underside of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610) taken during the night-time inspection of the bridge.



Photo 7 – View of the dark grey asbestos-containing caulking observed within the expansion joint at the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 8 – Compressed asbestos sheet packing located on the abutment shelf at the bridge was previously confirmed as an ACM and visually observed during this inspection of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



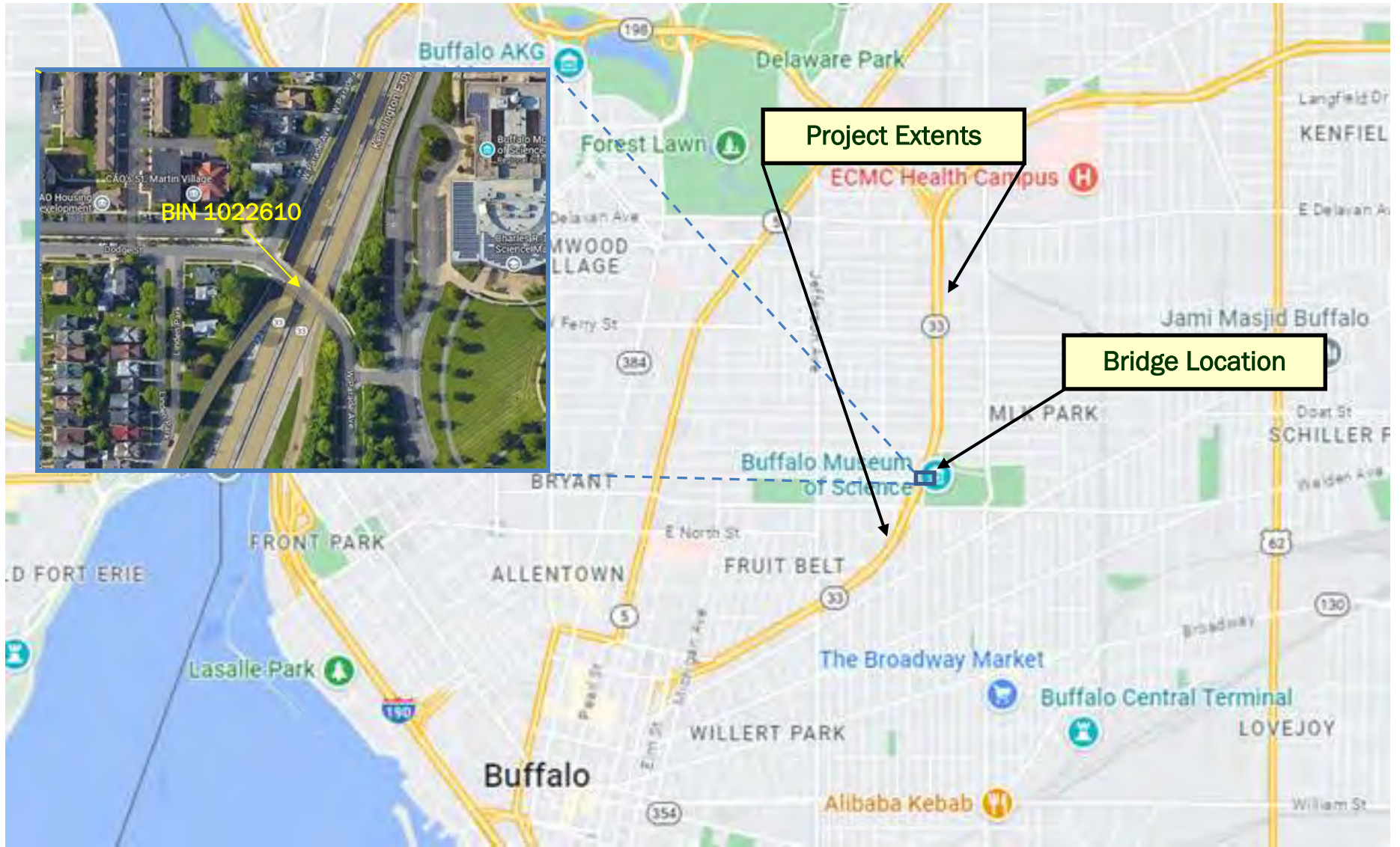
Photo 9 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



Photo 10 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

Appendix B

Figures



Project
Location

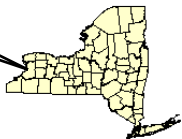
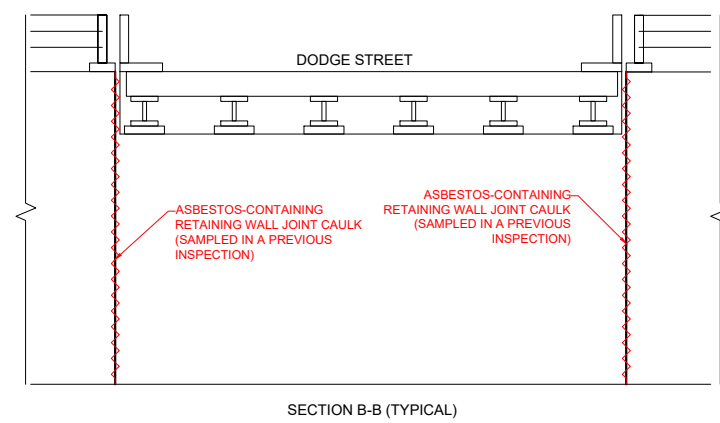
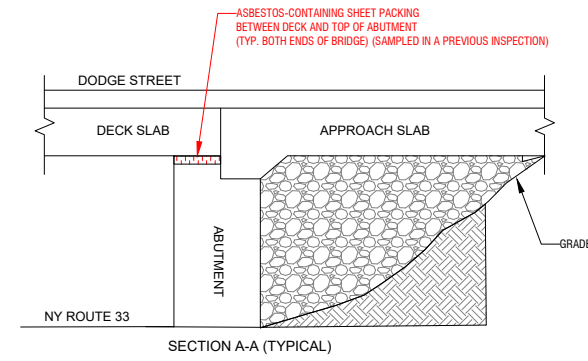
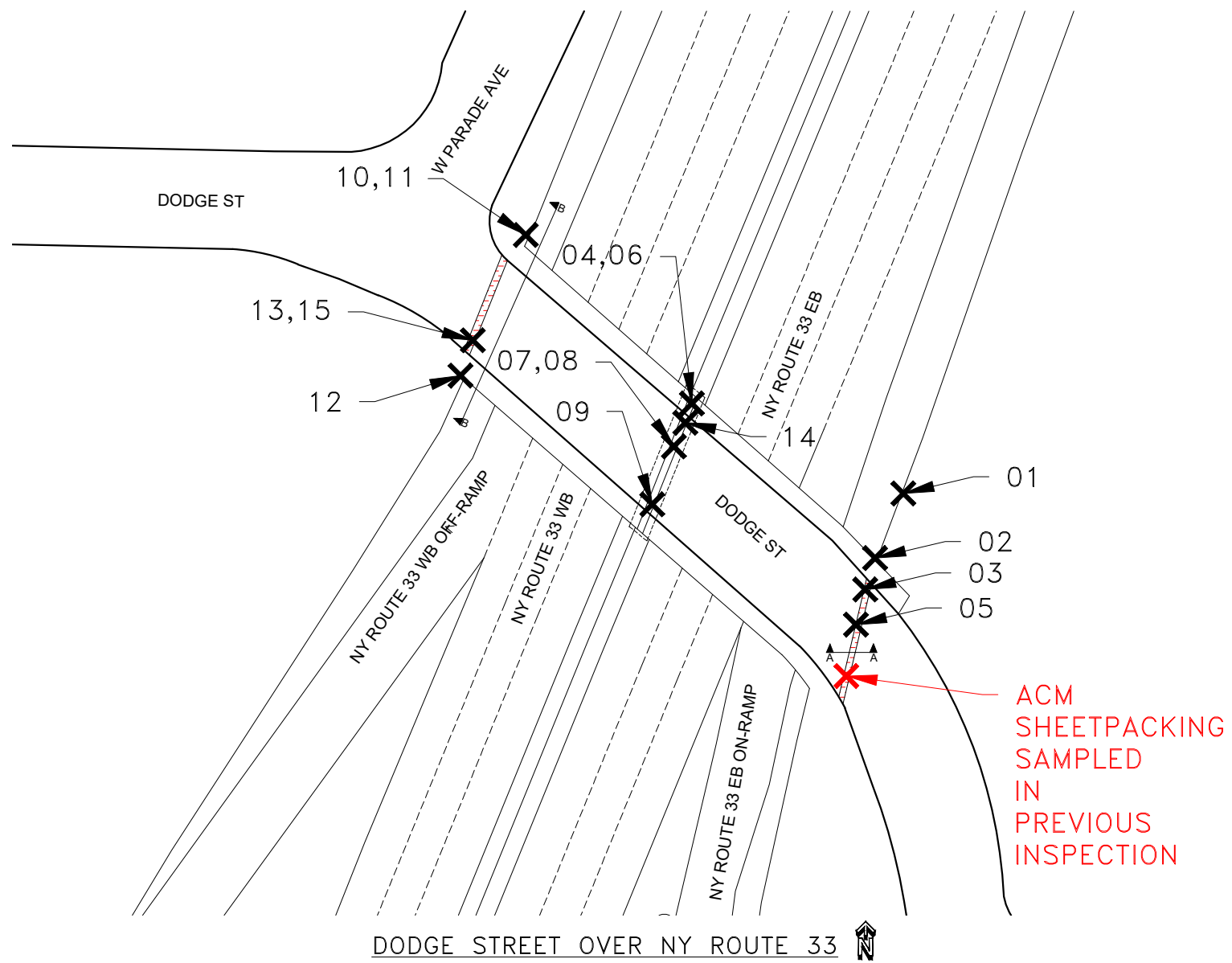


FIGURE 1 - PROJECT LOCATION MAP

Dodge Street over Kensington Expressway (Rt 33)
BIN 1022610
City of Buffalo, Erie County, New York

Not to Scale

June 2023



LEGEND
 ASBESTOS-CONTAINING SHEETPACKING
 ASBESTOS-CONTAINING CAULK

FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022610

Watts Architects & Engineers
 95 Perry Street, Suite 300
 Buffalo, New York 14203
 (716) 206-5100 | (716) 206-5199 Fax

DODGE STREET OVER NY ROUTE 33
CITY OF BUFFALO, NEW YORK
 NOT TO SCALE
 JULY 2023

SAMPLES ARE PREFIXED BY 1022610-
 SAMPLES WERE COLLECTED ON MAY 3 AND 10, 2023.
 X INDICATES APPROXIMATE SAMPLE LOCATION
 X SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

R:\2023\1022610\1022610.dwg, Jul 21, 2023, 1:14pm

Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalo@emsl.com>

EMSL Order: 142302266
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022610/Dodge St. Over Kensington (Rt. 33)

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 05/23/2023 3:36 PM
Analysis Date: 05/25/2023 - 05/31/2023
Collected Date: 05/23/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022610-01 142302266-0001			Description Brown Abutment Joint Filler Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Black		100.00% Other	None Detected
Sample ID 1022610-02 142302266-0002			Description Brown Abutment Joint Filler Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black		100.00% Other	None Detected
Sample ID 1022610-03 142302266-0003			Description Light Gray Masonry Coating Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID 1022610-04 142302266-0004			Description Light Gray Masonry Coating Homogeneity Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID 1022610-05 142302266-0005			Description Gray and Orange Bearing Pad Homogeneity Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Brown/ Orange		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 05/30/2023 14:51:41



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142302266
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022610-06 142302266-0006		Description	Gray and Orange Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Brown/ Orange		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022610-07 142302266-0007		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-08 142302266-0008		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-09 142302266-0009		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-10 142302266-0010		Description	Grey Railing/Abutment-Retaining Wall Caulk		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022610-11 142302266-0011		Description	Grey Railing/Abutment-Retaining Wall Caulk		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected

Initial report from: 05/30/2023 14:51:41



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302266
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022610-12 142302266-0012		Description	Grey Railing/Abutment-Retaining Wall Caulk		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-13 142302266-0013		Description	Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-14 142302266-0014		Description	Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-15 142302266-0015		Description	Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected

Initial report from: 05/30/2023 14:51:41



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142302266
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 5/23/2023
Analysis Completed Date: 5/30/2023

Sample Receipt Time: 3:36 PM
Analysis Completed Time: 2:27 PM

Analyst(s):

Jessica Kroczyński PLM NYS 198.1 Friable (2)

Tom Hanes PLM NYS 198.6 NOB (13)

Tom Hanes TEM NYS 198.4 NOB (13)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/30/2023 14:51:41

142302266

**WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY**

Page: 1 of 2

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022610/Dodge St. over Kensington (Rt. 33)
Contact: Matt Holquist at **(716) 435-1724**
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23

Watts Project No.: 20220255

Analysis Requested:

ELAP 198.1 (Friable PLM) X
 ELAP 198.6 (NOB PLM) X
 ELAP 198.4 (NOB TEM) X
 Other (Specify) _____

Turnaround Time Requested:

24 Hr. _____ 5 Day _____
 48 Hr. _____ 1 Week X
 72 Hr. _____ 2 Weeks _____
 96 Hr. _____

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022610-01	Brown Abutment Joint Filler	1	NE Wing Wall Joint		
1022610-02	Brown Abutment Joint Filler	1	NE Abutment/Wing Wall Joint		
1022610-03	Light Gray Masonry Coating	2	East Abutment, North End		
1022610-04	Light Gray Masonry Coating	2	Center Pier, North End		
1022610-05	Gray and Orange Bearing Pad	3	East Abutment, North Middle Bearing		
1022610-06	Gray and Orange Bearing Pad	3	Center Pier, North Bearing		
1022610-07	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, North		
1022610-08	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, North		
1022610-09	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, South		
1022610-10	Grey Railing/Abutment-Retaining Wall Caulk	5	NE Railing/Abutment-Retaining Wall		
1022610-11	Grey Railing/Abutment-Retaining Wall Caulk	5	NE Railing/Abutment-Retaining Wall		
1022610-12	Grey Railing/Abutment-Retaining Wall Caulk	5	SE Railing/Abutment-Retaining Wall		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/10/23 Time: 17:00 **Received By:** _____ Date: _____

Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/23/23 Time: 15:30 **Received By:** _____ Date: _____

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

RECEIVED
MAY 23 2023

BY: *[Signature]* 3:36
WI

Appendix D

License(s)
And
Certification(s)



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2023

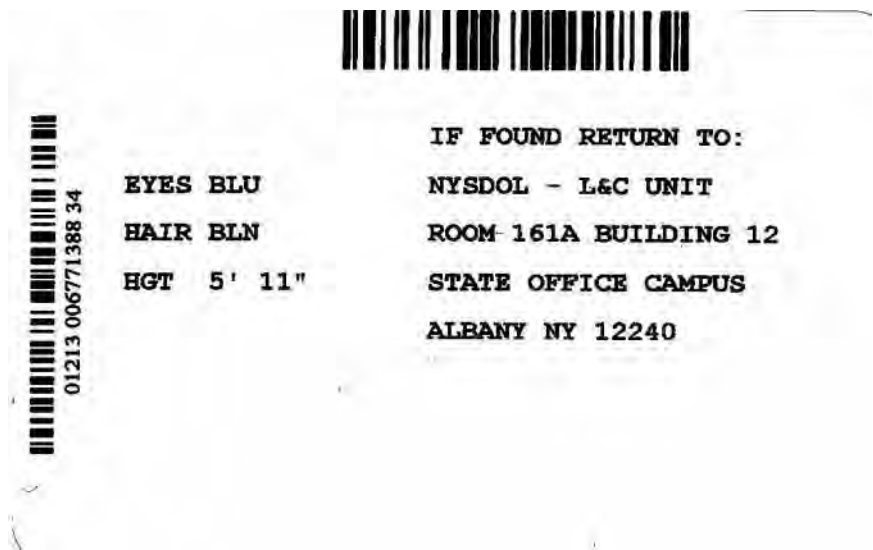
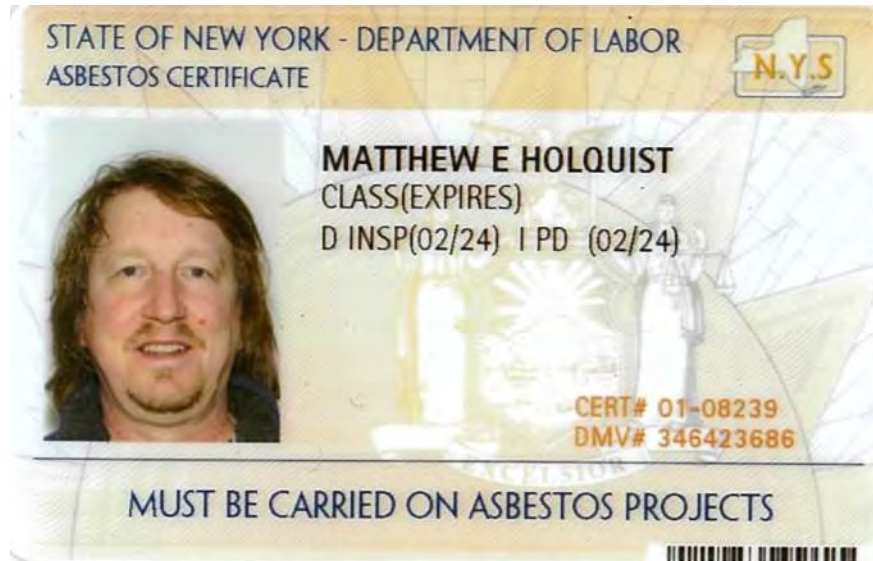
Duly Authorized Representative – Kevin Janik:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

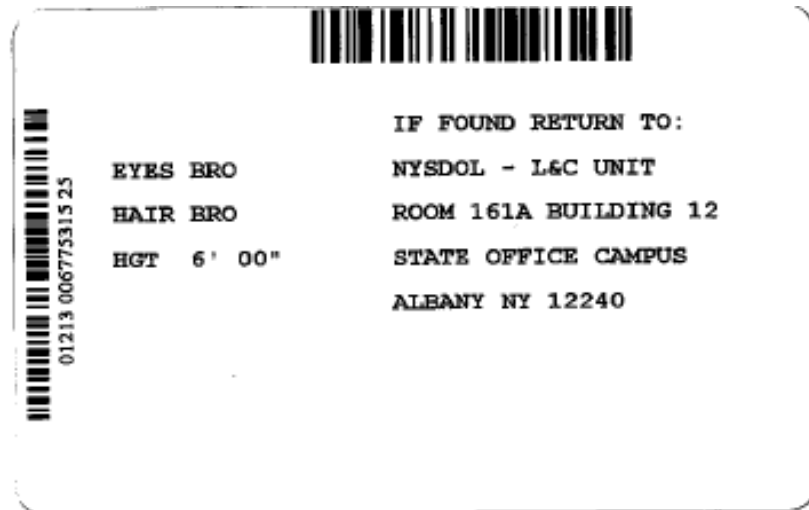
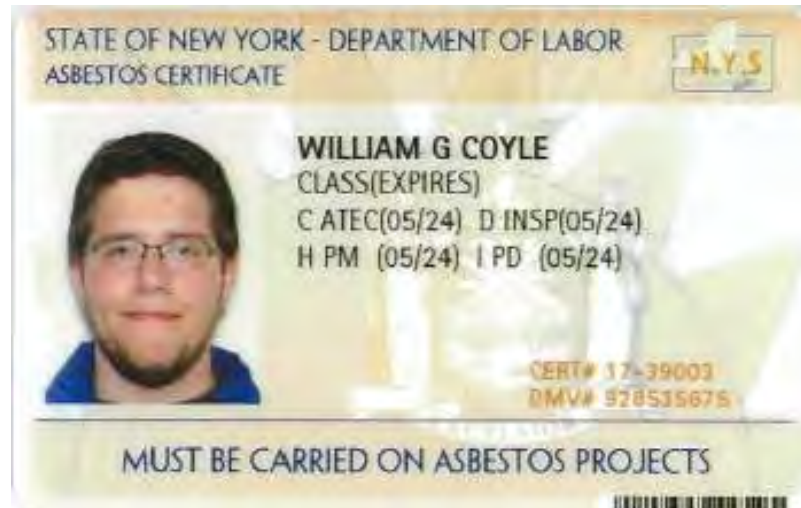
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



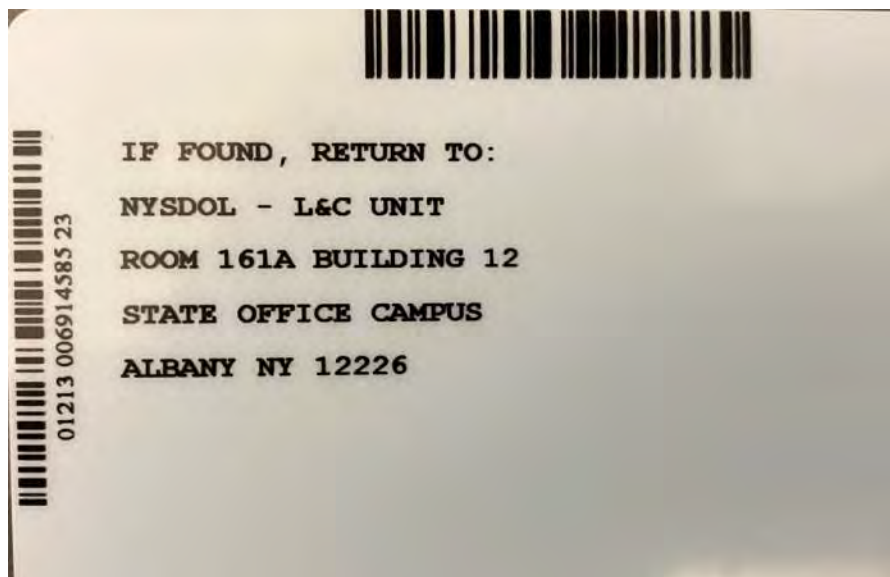
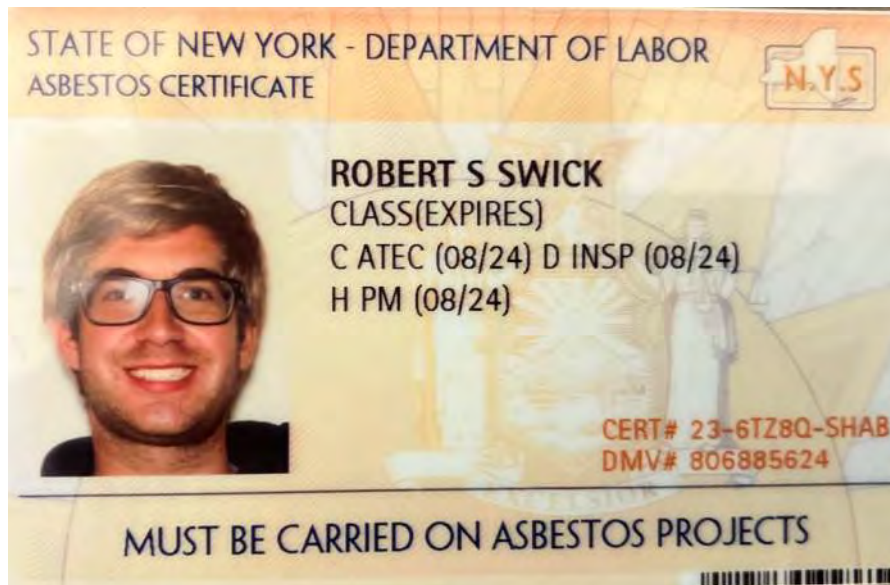
Matthew E. Holquist

D - Inspector
I - Project Designer



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

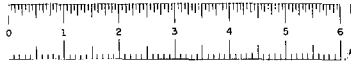


Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor

Appendix E

Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information



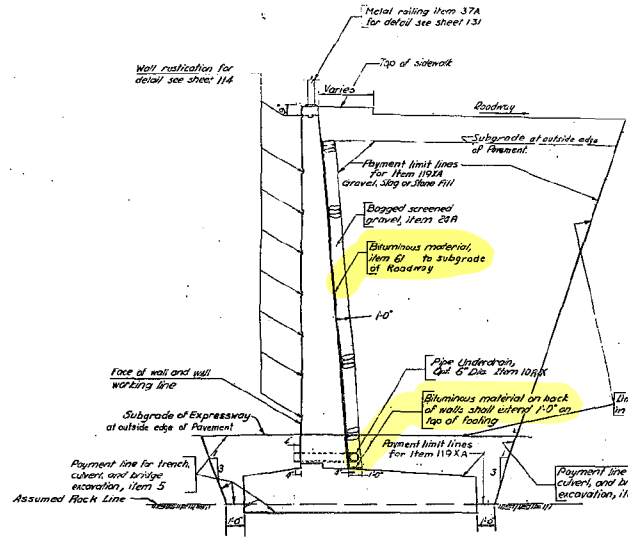
F.A.C. 59-19					
FED. NO.	STATE	FED. AD. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(1)	5	132	178

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

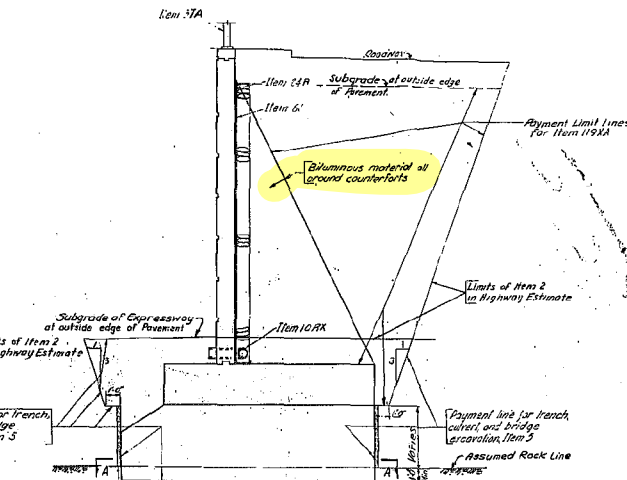
GENERAL NOTES FOR WALLS

- Design is based on 1953 Specifications of A.A.S.H.O. (modified).
- See plans and elevations of walls on wall sheets, for location and extent of wall sections, elevations of bottom of footings, location of all joints, setting layout, piles and rustication pattern.
- All concrete for wall construction is Item 185 unless otherwise indicated on sections.
- All splices shall be 40 diameters minimum.
- Minimum clear spacing of bars must be 2".
- Before placing concrete, proper provision shall be made for any anchor bolts, utilities, drainage, expansion and contraction joint details, etc. as required.
- All expansion joints in walls, as shown on plans, are to be 1/2" unless otherwise indicated; as detailed on sheet No. 114.
- All longitudinal bars shall run continuous between contraction joints unless otherwise shown, and shall end 2' clear from the joints.
- The design of footings without piles is based on an allowable bearing pressure of 8 tons per sq. ft. on rock, and 1.3 tons per sq. ft. on soil.
- Backfill must be placed simultaneously against both sides of all walls.
- For locations where 6" diameter pipe underdrain is used, see plans and elevations of walls.
- Payment lines for excavation as shown on the wall sections are to be typical for all wall sections.
- Pile footings are based on allowable pile loading of 37 tons per pile.
- Piles shown battered are on 4 on 1 in direction, indicated on plan of footing and in sections.
- Design of footings shown may be changed as required, as directed by the Deputy Chief Engineer, after excavation is made and subsurface conditions determined. If piles are required where not shown, revised footing details will be furnished by the Engineer.
- All radii and dimensions are given along the working line face of wall unless otherwise noted.
- Conditions: Piers under footing to be individual, pour; footing to be individual pour; counterfort and wall to be poured monolithically.
- All cement used in the concrete items for walls shall be Portland Cement Type 2, Item 15-2, with Durrer A.E.A. (Air Entraining Agent) added. Durrer A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the water at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Durrer A.E.A. dispenser. The amount of Durrer A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 5% minimum and 5% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer. The cost of finishing and adding the Durrer A.E.A. and all the labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete item.
- The design of all wall sections is based on a certain height (from bottom of footing to top of wall) with 2'-0" intervals. The maximum height of the walls is indicated by the number of the wall section. For example: T-20 is to be used for heights varying from 16'-0" to 20'-0". If during construction, existing subsurface conditions make it necessary to lower or raise a wall beyond the limits, etc. called for wall section, the next lower or higher wall section shall be used, if ordered by Engineer.
- Minimum cover for reinforcement is 2" unless otherwise noted.
- All piles to be steel bearing H-piles (10" B.P. 42).
- A reinforcing detailer shall be used in Item 165, T-20's.
- FOOTING ON ROCK: All disintegrated or shattered material shall be removed to lines and levels ordered by the Engineer. Where sound rock is found below the planned levels of the bottom of footings, a depth of Class I concrete Item 203 shall be installed to the levels shown on the plans, or as directed by the Engineer. Rock removed for the levels directed by the Engineer and outside the footings must be replaced by backfill of Class I concrete for walls. Subgrade of Service Road - no payment will be made at outside edge of pavement.



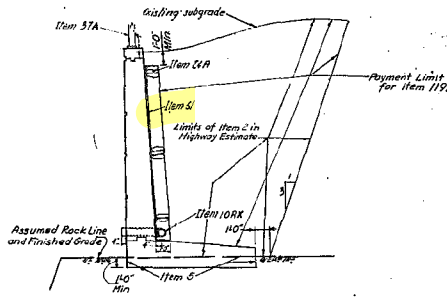
TYPICAL T-WALL SECTION IN ROCK

NOTE: Cost of pipe drain thru wall included in concrete item.



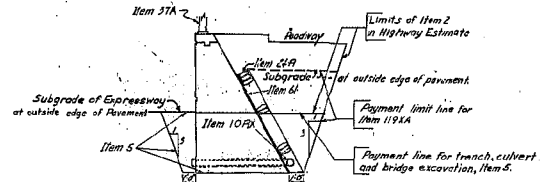
TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



TYPICAL L-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.

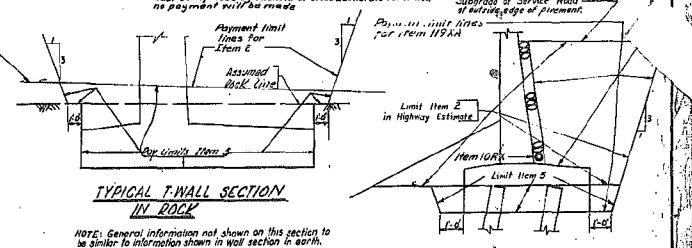


TYPICAL T-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in wall section in earth.

TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.

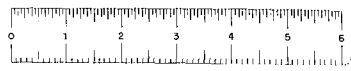


TYPICAL T-WALL SECTION ON PILES

GENERAL NOTES & PAYMENT-LINES FOR WALLS			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEIN, CATHER & BRILL	ENGINEERS-ARCHITECTS	DRAWN	CHECKED
		BY	BY
302 E. 44th ST. NEW YORK 17, N.Y.		NEW YORK 17, N.Y.	

SHEET NO. 132

NO AS BUILT REVISIONS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O 1953 modified (loading H 20-44)
MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, prequalified bituminous joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint Sealing Compound shall be paid for under Item 351X.
 Bituminous material, Item 351, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.
 When the concrete is cured, finished and protected, rubbed, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.
 Item 305B in highway estimate.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.
 Field connections shall be made with 8" high strength bolts or rivets. Nuts and bolts may be omitted and weld substituted if the Contractor so elects.

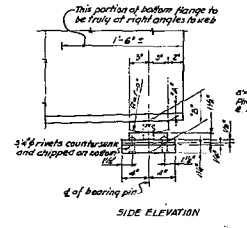
Shop paint: Red lead and oil first coat to be on exterior side joints. Second coat to be gray green paint. Spinal bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead loads, corrections may be made in the thickness of wearing surface of roadway and side walks. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge deck to be poured 1/4" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A.E.A. Air Entraining Agent added.
 Dares A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A.E.A. dispenser. The amount of Dares A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dares A.E.A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, ends and pedestals shall be Item 185. Pile concrete shall be Item 185.
 All concrete in abutments including wingwalls and footings and pier column footings shall be Item 305.
 Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footings.
 FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

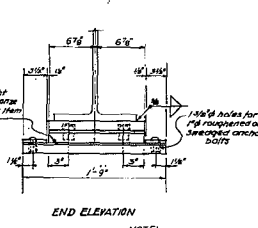
A retaining partition shall be used in Item 18 and Item 205.
 Size of pipe sleeves and type of hangers shall be as per the (request the Gas Dept. or Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	5 1/2"	3 1/2"	7"	3 1/2"	3"	5"	16 1/2"	16 1/2"	5 1/2"

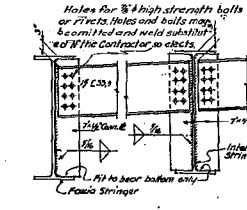
NO AS BUILT KEYINGS
 Pipe supports for Water Line shall be included in the bid price for Item 185.
 Anchor Chairs with U-Bolts and pipe hangers for Gas Line to be furnished and erected by others.
 Notes in diaphragms to be provided by Contractor.



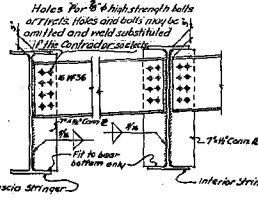
EXPANSION BEARING
Scale 1/4"=1'-0"



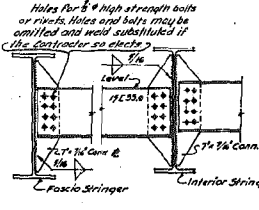
FIXED BEARING
Scale 1/4"=1'-0"



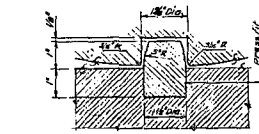
END DIAPHRAGMS AT ABUTMENTS
Scale 3/4"=1'-0"



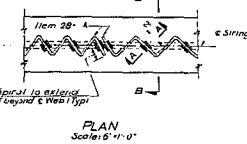
END DIAPHRAGMS AT PIERS
Scale 3/4"=1'-0"



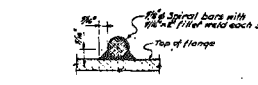
INTERMEDIATE DIAPHRAGMS
Scale 3/4"=1'-0"



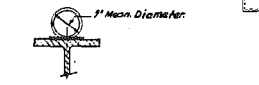
SECTION THRU DOWEL
Scale 1/2"=1'-0"



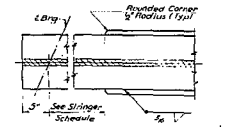
PLAN
Scale 1/2"=1'-0"



SECTION A-A
Half Size

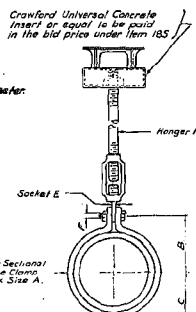


SECTION B-B
Scale 1/2"=1'-0"

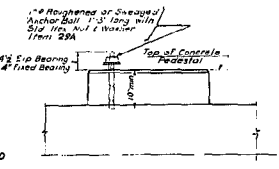


COVER PLATE DETAILS
Scale 1/2"=1'-0"

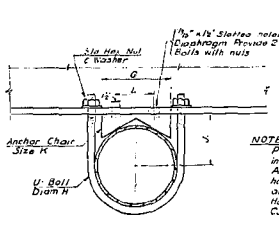
NOTE:
 All spirals shall be 1/2" plain bars with mean diameter 7/16".
 All spirals shall have two structural welds at each point of contact with beam, one weld each side of web.
 The Contractor's attention is called to the possibility of interference between the reinforcing steel in the slab and the beam spirals. To avoid this interference the bar spacing may be varied 1/2" with the understanding that the required area of steel will be placed in each 12". Even then, some bars will have to be retraced thru one or more spirals.



PIPE HANGER WITH TURNBUCKLE & INSERT
Scale 3/4"=1'-0"

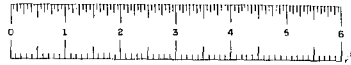


ANCHOR BOLT DETAIL
(TYPICAL)
Not to scale



ANCHOR CHAIR WITH U-BOLT
Scale 3/4"=1'-0"

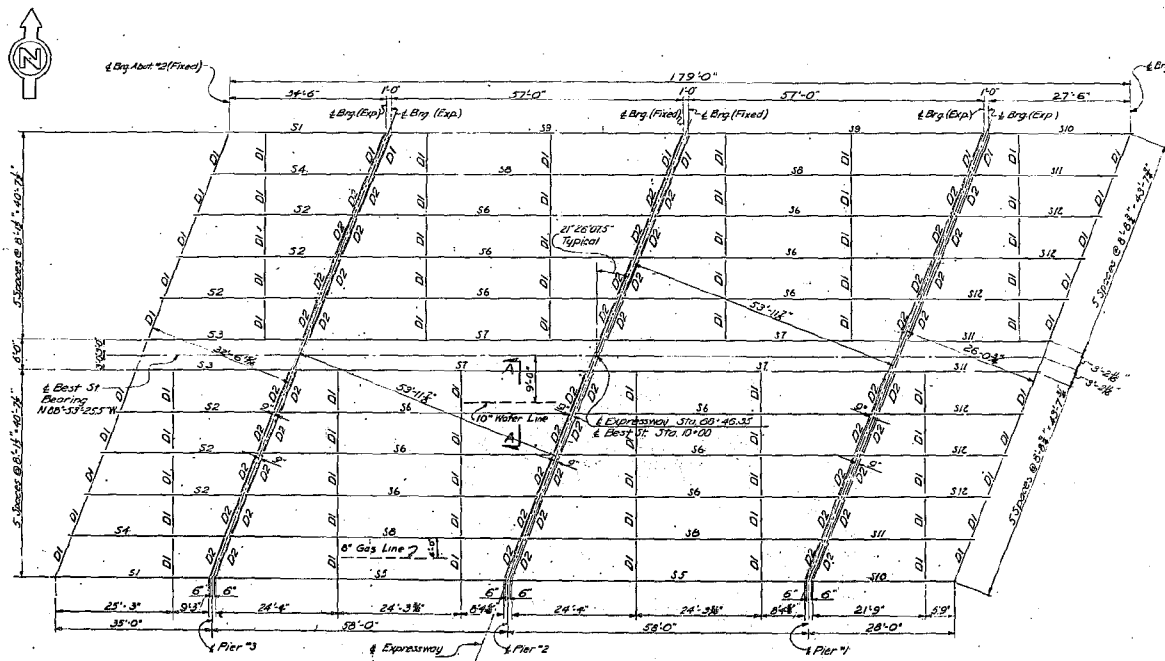
BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES
 STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1
 DE LEW, CATHAR & BRILL ENGINEERS - ARCHITECTS
 302 E. MAIN ST. NEW YORK 17, N. Y.
 DRAWN: J.C.
 CHECKED: J.C.
 TRACED: J.C.



F.A.C. 29-14

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-371(7)		158	178

CONTRACT II

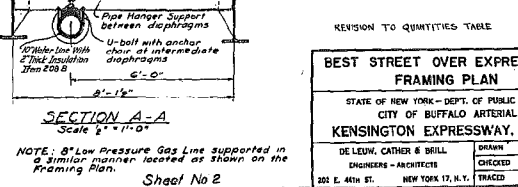
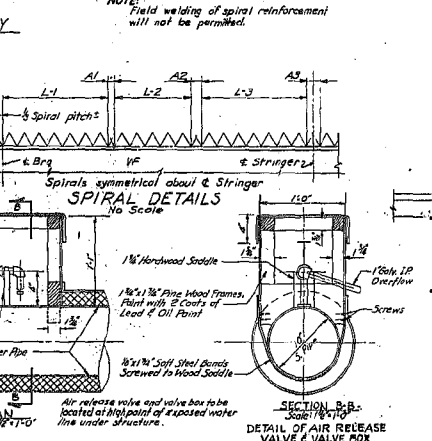
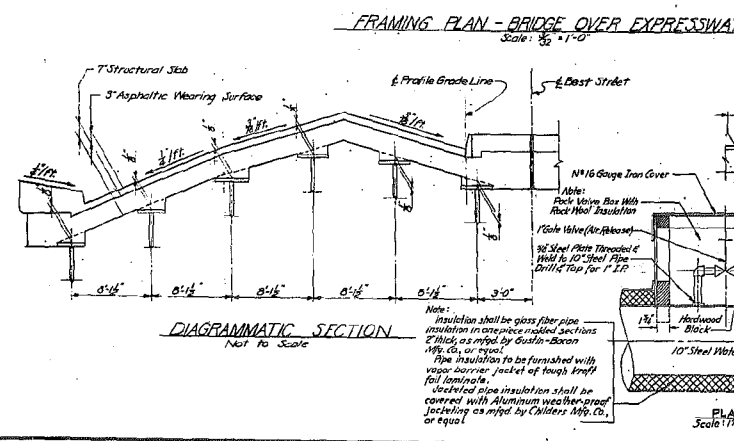
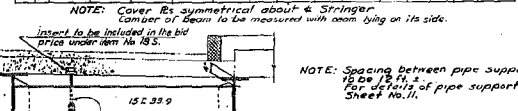


NOTE:
Diaphragm Schedule
D1: 15'x33.9"
D2: 15'x36"

NOTE:
Stringers shall be filed in regard to use plates
after the bearings have been set and aligned
to their proper positions on the bridge seats.

ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL AMOUNT	FINALS
108X	10'x8' Girders and Bridge Edgework	CY	640	675	362.8
108X	Sewer Pipe (Vitrified) 6" Dia.	LF	100	100	100
108X	Pipe Underdrain, 6" Dia.	LF	250	260	362
112	12" Reinforced Concrete Type 2	CU YD	177.6	1,253	189.8
185	Class I A Concrete for Structures	CU YD	800	805	377.7
221	Class I Concrete	CU YD	380	390	391.8
221	Gravel	CU YD	50	51	56.1
228	Bar Reinforcement for Structures	LB	178,972	185,450	18,456.3
228	Structural Steel Connectors	LB	3,688	4,000	3,999
274	Structural Steel	LB	338,872	345,000	347,149
317	Metal Roofing	SF	305	400	400.9
317	Asphalt Concrete, Type 2 B	CU YD	50	51	56.1
31	Bituminous Material	Gal	62	65	70
381	Protective Coating for Concrete	SQ YD	268	280	300
381	1/2" Dry Stone Bedding	CY	765	790	816
381	Steel Bearing Piles (10' BP 25)	LF	1216	1,280	1,314
381	Splices for Steel Bearing Piles	EA	21	21	21
381	1/2" Lapping Equipment for Driving Piles	EA	1	1	100.2
381	6"x6" Stone Curb (Bridge)	LF	652	730	693.2
381	1/4" Gravel, Slayer Stone, 211	CU YD	183	185	185.7
301B	Furnish & Install 2" Galvanized Steel Conduit	LF	549	580	590
303B	Furnish & Install 2" Type B (30" Mount. Hgt)	EA	4	4	4
385	Massive Masonry	CU YD	280	290	291.2
313	1/2" Portland Cement Mortar	CU YD	18	18	18
313	Surface Dosing with Fine Aggregate	SF	1487	1,510	1,513.3

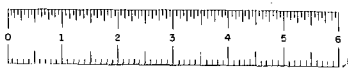
STRINGER	BOTTOM COV.	SPIRAL SHEAR CONNECTORS	DIMENSION	HEAD LOAD
NO.	SIZE	SECTION I / SECTION L-2 / SECTION L-3	A1 / A2 / A3	LOAD
31	13W120	NONE		2'
32	10W120	NONE		2'
33	10W120	NONE		2'
34	10W120	NONE		2'
35	10W120	NONE		2'
36	12W120	10'-0" / 4" / 9'-11" / 7" / 10'-2"	3E / 3E / 3E	1 1/2"
37	12W120	10'-0" / 4" / 9'-6" / 6" / 8'-3"	3E / 3E / 3E	4 3/8"
38	12W120	10'-0" / 4" / 10'-1" / 2E / 10'-8" / 8" / 7'-3"	4E / 2E / 2E	2 1/8"
39	12W120	10'-0" / 4" / 10'-8" / 2E / 10'-3E / 7'-6"	10' / 2E / 3	3 1/2"
40	12W120	10'-0" / 4" / 10'-11" / 2E / 10'-0" / 8" / 8'-0"	16' / 2	2 1/2"
41	12W120	27'-6"	NONE	2'
42	12W120	27'-6"	NONE	2'
43	12W120	27'-6"	NONE	2'



REVISION TO QUANTITIES TABLE

NO.	DESCRIPTION	AMOUNT	DATE
1	As per sheet 157	362	
2	As per sheet 158	374	
3	As per sheet 159	386	

BEST STREET OVER EXPRESSWAY FRAMING PLAN
 STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1
 DELEW, CATHY & BRILL ENGINEERS - ARCHITECTS
 201 E. 4TH ST. NEW YORK 17, N.Y.
 SHEET NO. 158

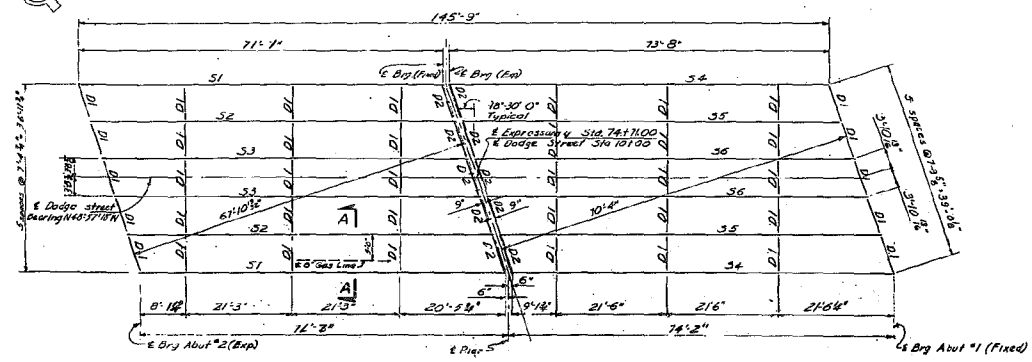


F.A.C. 58-19

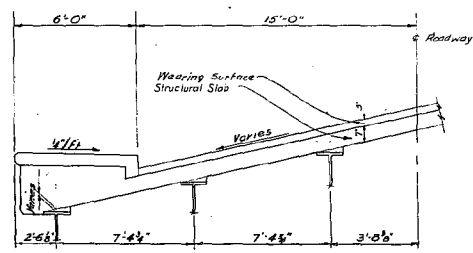
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-311(1)	171	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II



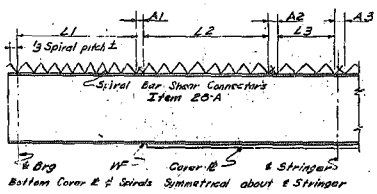
FRAMING PLAN
Scale 3/4" = 1'-0"



DIAGRAMMATIC SECTION
Not to Scale

STRINGER	MK	NO	SIZE	BOTTOM COIL & BRIST		SPIRAL SHEAR CONNECTORS			DIMENSION			CAMBER		
				SIZE	LENGTH	SECTION L-1 LENGTH FITCH	SECTION L-2 LENGTH FITCH	SECTION L-3 LENGTH FITCH	A-1	A-2	A-3		DEAD LOAD	
31	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
32	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	9'-0"	4 1/2"	10'-0"	6"	15'-0"	9"	3"	4"	1 1/2"
33	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	10'-0"	5"	10'-0"	5"	14'-8"	0"	3 1/2"	4 1/2"	1 1/2"
34	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
35	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	10'-0"	5"	10'-0"	5"	14'-8"	0"	3 1/2"	4 1/2"	1 1/2"
36	2	36WF10	21'-11"	18'-4 1/2"	5'-5"	10'-0"	5"	10'-0"	5"	14'-8"	0"	3 1/2"	4 1/2"	1 1/2"

NOTE: Number of beam to be measured with beam lying on its side.

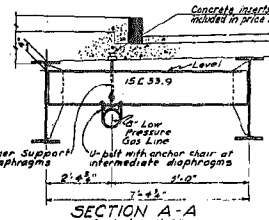


STRINGER DETAILS
Not to Scale

NOTE: Field welding of spiral reinforcement will not be permitted.

ITEM NO.	DESCRIPTION	UNIT	TOTAL		FINAL
			NEAR	ROUNDED	
5	Trench, Culvert and Bridge Excavation	C.Y.	692	790	446
10R1	Sewer Pipe (14" Dia) 6' Dia	L.F.	28	37	0
10R2	Pipe Underdrain 6" Dia	L.F.	214	240	212
15-2	Portland Cement, Type 2	Bbl	1353	1500	1123
18	Class I Concrete for Structures	C.Y.	289	358	295
20 S	Class I Concrete	C.Y.	171	152	169
24A	Bagged Screened Gravel	C.Y.	116	124	86
24B	Bar Reinforcement for Structures	Lb.	69714	102,300	100,935
28A	Spiral Bar Shear Connectors	Lb.	2586	4,690	4,420
28A	Structural Steel	Lb.	1,90280	176,600	175,558
27A	Welded Rebar	Lb.	298	400	278
32 2X	Asphalt Concrete, Type 9B	Ton	85	90	42
61	Bituminous Material	Sq. Yd.	259	250	25
66	Protective Coating for Concrete	Sq. Yd.	91	82	51
13A	Cast Iron Pipe 6" Diam	S.F.	2768	2,940	210
65T	Temporary Timber Sheet Piling	L.F.	302	320	302
64 10	12" Stone Curbs (Bridge)	Sq. Yd.	450	445	1106
102A	Gravel, Size or Stone Fill	C.Y.	160	140	124
301 S	Vertical and Inclined 2" Galvanized Steel Cansul	L.F.	2	2	2
303 S	Horizontal Light Steelwork, Type A (2" Mount Ngl)	L.F.	2	2	2
581	Joint S. Slab Component	Sq. Yd.	7	9	7
573	Surface Disting with Fine Aggregate	Sq. Yd.	504	510	503

W Wils Dorex A.E.A. added.



SECTION A-A
Scale 1/4" = 1'-0"

NOTE: Distance between pipe supports shall be 12 ft ±. For details of pipe supports see Sheet No. 14.

REVISION TO QUANTITY TABLE

DATE	BY	REVISION

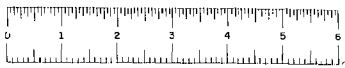
DODGE STREET OVER EXPRESSWAY FRAMING PLAN

STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL
KENSINGTON EXPRESSWAY, SEC. NO. 1

DE LEUN, CATHY & BRILL
ENGINEERS - ARCHITECTS

DRAWN: H.S.W.
CHECKED: P.C.
TRACED: C.B.

303 E. 44th ST. NEW YORK 17, N.Y.



F.A.C. 59-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(II)	181	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.S.H.C. 1953 modified - loading 14.20'-315'-4".
 MATERIALS & FABRICATION Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, precast, bituminous joint material, asphalt sheet piling and 1/2" asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint sealing compound shall be paid for under Item 3511.
 Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the top of footings to the bottom of pavement.
 When the concrete is cured, finished and (if ordered) rubbed, and the surface is clean and dry, the contractor shall apply a water-soluble silicone solution to all exposed surfaces except the underside of slab.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer Bridges.

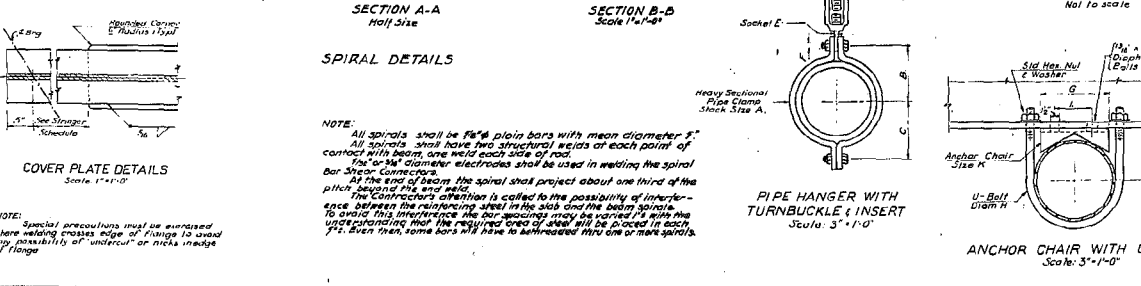
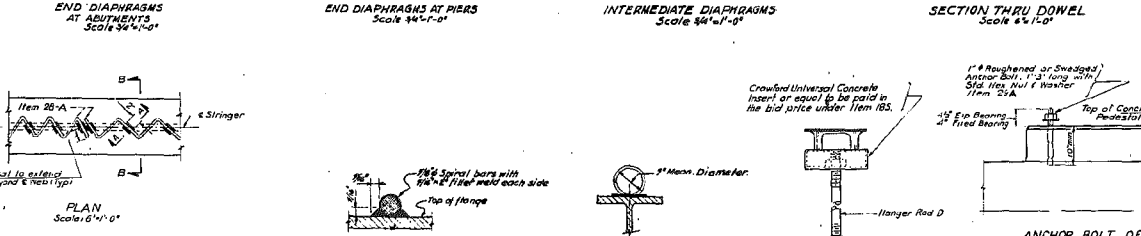
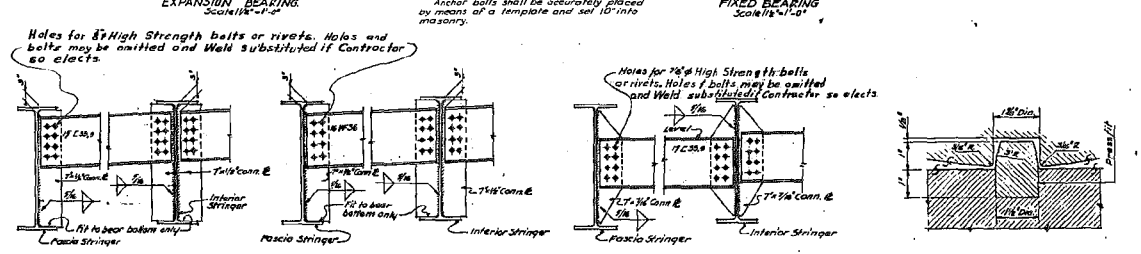
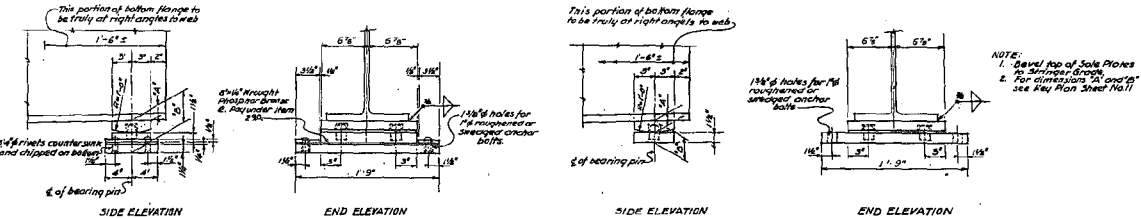
Field connections shall be made with 3" high strength bolts or rivets. Holes and bolts may be omitted and Weld substituted if Contractor so elects.
 Step joints: Red lead and oil flint field coat to be cast in grey paint. Second field coat to be grey green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of wearing surface of roadway and side walk. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substituting notes which briefly outline the anticipated structure conditions at the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge seats be poured 1/2" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dorex A.E.A. Air-Entraining Agent added.
 Dorex A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dorex A.E.A. dispenser. The amount of Dorex A.E.A. to be added shall be of such a quantity as to insure a controlled air-entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4.5% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dorex A.E.A. and all other equipment necessary to control the air-entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pier concrete shall be Item 185. Concrete in Abutment Wingwalls including footings shall be Item 185.
 All concrete in pier footings and pedestals underfootings shall be Item 205.
 Maximum payment limits for excavation, Item 5, in rock shall be the real lines of the footings on rock. See note No. 23 sheet No. 132.

A retarding densifier shall be used in Item 85 and 205.
 Size of pipe sleeves and size and type of hangers shall be verified with the Engineers Gas Corp. or Division of Water of the City of Buffalo before fabrication of diaphragms. See Sheet No. 118 for additional notes.

SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	12"	7"	6"	3"	1"	3"	8"	6"	1/2"	3/4"	3/4"

NOTE: Anchor Chairs with U-Bolts and Pipe Hangers for Gas Line to be furnished and erected by others.
 Holes in diaphragms to be provided by Contractor.

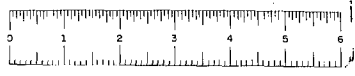


NO AS BUILT REVISIONS

DODGE STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES		DATE	BY
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS CITY OF BUFFALO ARTERIAL KENSINGTON EXPRESSWAY, SEC. 1		11/1/57	AL
DE LEUW, CATHY & BRILL	DRAWN	CHICK	C.C.
ENGINEERS - ARCHITECTS	CHECKED	TRACED	C.B.

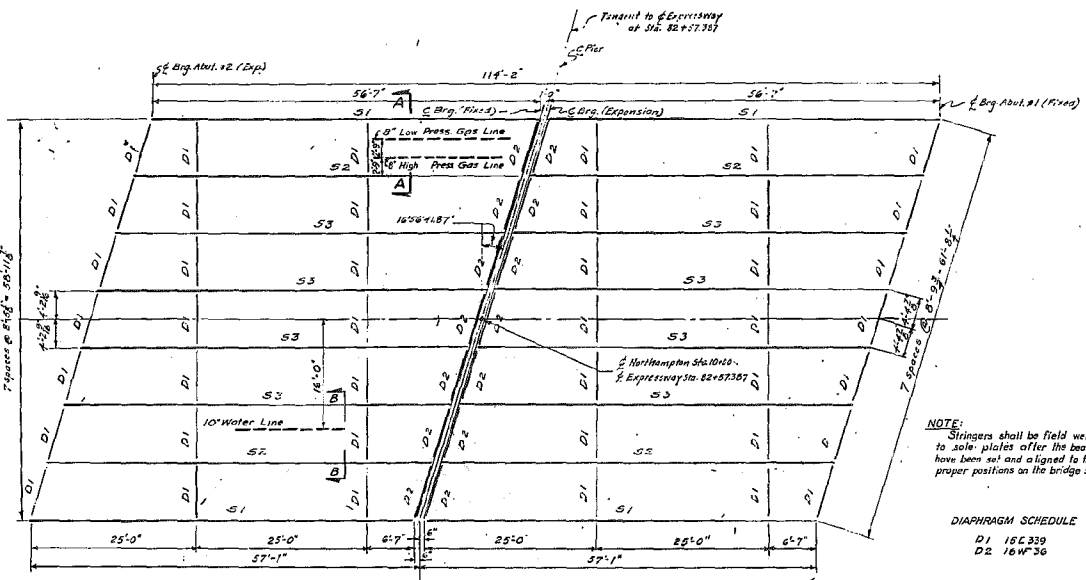
802 E. 44th St., NEW YORK 17, N.Y.

Sheet No 12



FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	BICKET NO.	TOTAL SHEETS
U-37107	N.Y.		1965	186	178

CONTRACT II



** Splices ordered are for either size of piles.

ITEM	DESCRIPTION	UNIT	TOTAL		FINAL
			NEED	ORDERED	
1	Trench, Curb and Bridge Excavation	CY	305	310	280
10A	Sewer Pipe (44" dia) 6' dia	LF	75	75	0
10B	Pipe Underdrain, 6" dia	LF	75	75	174
10C	Drainage Channel, Type 2	EA	165	165	165
18.5	Class A Concrete for Structures	CY	350	358	344
20A	Class I Concrete	CY	998	720	843
24	Gravel, Screened Gravel	CY	112	112	107
24RA	Bar Reinforcement for Structures	LB	92,779	95,820	85,003
28	Spiral Bar Shear Connectors	EA	8,881	2,780	8,116
28A	Structural Steel	LB	186,005	171,500	170,205
37A	Metal Rolling	LF	221	235	231
37BA	Structural Concrete, Type 2B	CU	107	115	100
37B	Structural Material	CU	125	140	11
38A	Protective Coating for Concrete	GA	113	120	14
45A	Steel Bearing Piles (4" dia)	EA	205	220	203
45B	Steel Bearing Piles (2" dia)	EA	480	500	480
45C	Splices for Steel Bearing Piles	EA	35	37	0
47	Fastening Equipment for Driving Piles	EA	166	190	0
81A	6" Stone Curb, 1' dia	LF	543	543	544
112A	Gravel, Slope or Slope Fill	CY	368	370	371
134	Soft Iron Pipe (6" dia)	LF	1	1	1
20B	Fence and Install 2" Reinforced Steel Conduit	LF	360	380	355
30A	Finish Light Standoff, Type A (18" Mount, High)	EA	72	72	72
30B	Miscellaneous Metals	LB	268	270	271
33A	Joint Sealing Compound	GA	9	9	9
33B	Surface Overlay with Pine Boarding	S.Y.	654	690	625
33C	Temporary Steel Sheet Piling	S.Y.	1800	1572	0

NOTE: Stringers shall be field welded to sole plates after the bearings have been set and aligned to their proper positions on the bridge seats.

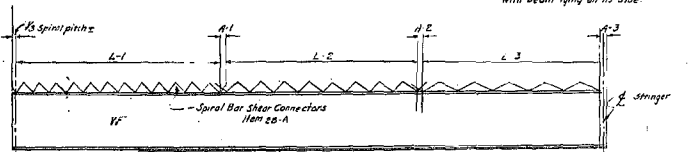
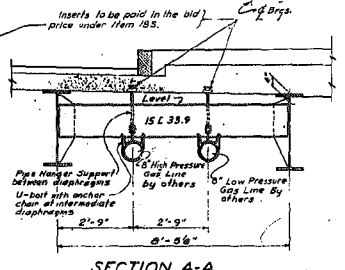
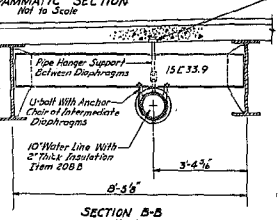
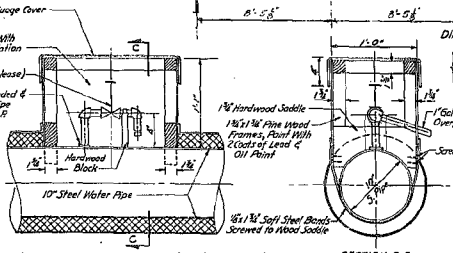
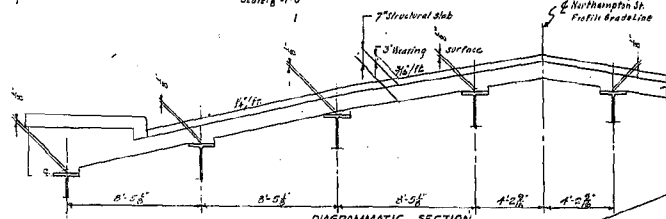
DIAPHRAGM SCHEDULE

- D1 15C339
- D2 16W36

STRINGER	Bot Cover #	SPIRAL SHEAR CONNECTORS			CAMBER
		Section L-1	Section L-2	Section L-3	
151	A	10'-0"	10'-0"	10'-0"	1/2"
152	A	10'-0"	10'-0"	10'-0"	1/2"
153	B	10'-0"	10'-0"	10'-0"	1/2"

FRAMING PLAN Scale: 1/4" = 1'-0"

Note: Insulation shall be glass fiber pipe insulation in one piece molded sections 2" thick, as req'd. by Gustin-Brown Mfg. Co. or equal. Pipe insulation to be furnished with vapor barrier jacket of tough Kraft roll laminate. Jacketed pipe insulation shall be covered with Aluminum weather-proof jacketing as req'd. by Childers Mfg. Co. or equal.



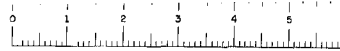
Bottom Cover Plate and Spirals symmetrical about 4 stringers.

NOTE: Field welding of spiral reinforcement will not be permitted.

STRINGER DETAILS Not to scale

FINAL QUANTITY REVISION			
NORTHAMPTON STREET OVER EXPRESSWAY FRAMING PLAN			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHY & BELL	DRAWN	K.C.C.	
ENGINEERS - ARCHITECTS	CHECKED	R.C.C.	
802 E. 42nd St.	NEW YORK 17, N.Y.	TRACER	28

Sheet No. 2



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		188	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTLAND AVE.
ERIE COUNTY

ESTIMATE OF QUANTITIES - WALL NO. 1

NO.	ITEM	UNIT	NEET	PROPOSAL
2UF	Underdrain Filter	C.Y.	184	190
2EF-B	Selected Granular Fill	C.Y.	380,890	380,890
5B	Structure Excavation	C.K.	224,810	224,810
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	3,019	3,020
1B	Class A Concrete for Structures	C.Y.	4,606	4,610
20	Class B Concrete for Structures	C.Y.	3,599	3,600
24A	Bagged Screened Aggregate	C.Y.	1,444	1,450
28	Bar Reinforcement for Structures	L.B.	40,029	40,100
29	Structural Steel	L.B.	8,796	8,790
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	2,936	2,940
61	Bituminous Material	GAU.	2,245	2,250
83ST	Temporary Steel Sheet Piling	S.F.	68,498	68,500
83TS	Temporary Sheet Piling	S.F.	3,602	3,610
30F	Retaining Frame and Grate	S.F.	8.6	10
412B	2" Galvanized Steel Conduit	L.F.	560	570

ESTIMATE OF QUANTITIES - WALL NO. 2

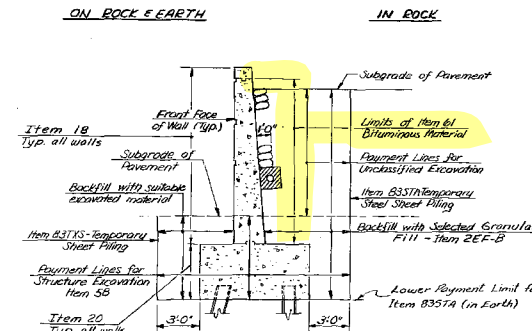
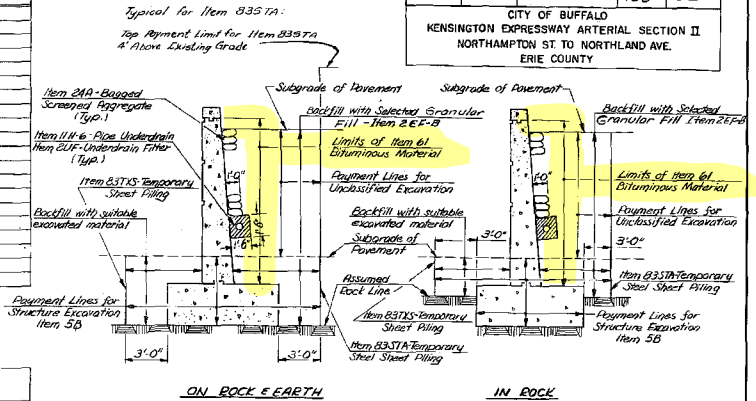
NO.	ITEM	UNIT	NEET	PROPOSAL
2UF	Underdrain Filter	C.Y.	170	170
2EF-B	Selected Granular Fill	C.Y.	348,605	348,610
5B	Structure Excavation	C.Y.	226,487	226,490
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	2,841	2,850
1B	Class A Concrete for Structures	C.Y.	4,322	4,330
20	Class B Concrete for Structures	C.Y.	2,901	2,910
24A	Bagged Screened Aggregate	C.Y.	1,409	1,410
28	Bar Reinforcement for Structures	L.B.	40,434	40,400
29	Structural Steel	L.B.	7,648	7,650
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	2,553	2,560
61	Bituminous Material	GAU.	2,071	2,080
83ST	Temporary Steel Sheet Piling	S.F.	64,959	64,960
83TS	Temporary Sheet Piling	S.F.	1,950	1,960
412B	2" Galvanized Steel Conduit	L.F.	429	430

ESTIMATE OF QUANTITIES - WALL NO. 3

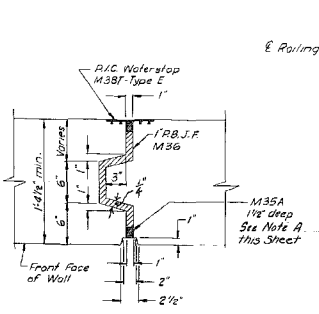
NO.	ITEM	UNIT	NEET	PROPOSAL
2UF	Underdrain Filter	C.Y.	37	40
2EF-B	Selected Granular Fill	C.Y.	40,696	40,100
5B	Structure Excavation	C.K.	36,009	36,020
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	574	580
1B	Class A Concrete for Structures	C.Y.	453	460
20	Class B Concrete for Structures	C.Y.	630	630
24A	Bagged Screened Aggregate	C.Y.	150	150
28	Bar Reinforcement for Structures	L.B.	42,773	42,800
29	Structural Steel	L.B.	1,681	1,700
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	568	570
61	Bituminous Material	GAU.	257	260
83ST	Temporary Steel Sheet Piling	S.F.	10,898	10,900
83TS	Temporary Sheet Piling	S.F.	1,217	1,220
84SB	Steel Bearing Test Piles	L.F.	195	170
85	Steel Bearing Piles - 10 BPA2	L.F.	3,503	3,500
85-A	Splices for Steel Bearing Piles	Ea.	44	44
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.

ESTIMATE OF QUANTITIES - WALL NO. 4

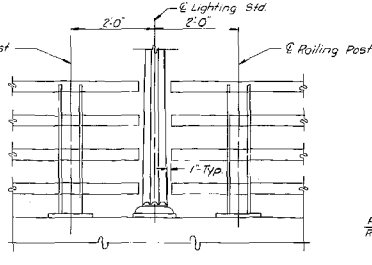
NO.	ITEM	UNIT	NEET	PROPOSAL
2UF	Underdrain Filter	C.Y.	35	40
2EF-B	Selected Granular Fill	C.Y.	48,993	49,000
5B	Structure Excavation	C.K.	34,005	34,000
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	533	540
1B	Class A Concrete for Structures	C.Y.	562	570
20	Class B Concrete for Structures	C.Y.	655	660
24A	Bagged Screened Aggregate	C.Y.	191	200
28	Bar Reinforcement for Structures	L.B.	54,422	55,200
29	Structural Steel	L.B.	1,546	1,550
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	521	530
61	Bituminous Material	GAU.	294	300
83ST	Temporary Steel Sheet Piling	S.F.	10,956	10,700
83TS	Temporary Sheet Piling	S.F.	912	850
84SB	Steel Bearing Test Piles	L.F.	105	110
85	Steel Bearing Piles - 10 BPA2	L.F.	2,220	2,220
85-A	Splices for Steel Bearing Piles	Ea.	49	49
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.



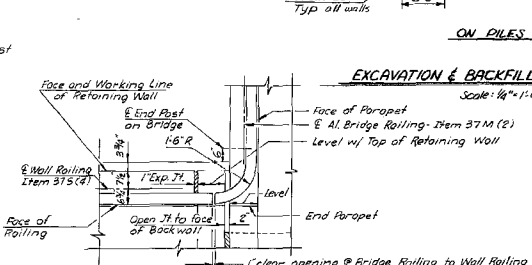
NOTE A:
A layer of wax paper or "Bear Tape" 431-1449 UB as manufactured by Behr Manning Co., Troy, NY or any approved equal, shall be placed between M35A Caulking Compound and the R.B.J.M. 35. Pre-molded Bituminous Joint Filler.



EXPANSION JOINT DETAIL @ EXIST WALL & WALL #4
Scale: 1/2" = 1'-0"



RAILINGS ELEVATION AT LIGHTING STANDARD
Scale: 3/8" = 1'-0"



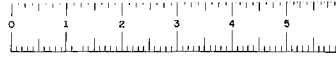
RAILINGS PLAN AT BRIDGE CORNERS
Scale: 1/2" = 1'-0"

EXCAVATION & BACKFILL PAYMENT LINES
Scale: 1/4" = 1'-0"

- NOTES:**
1. For Wall General Notes, see Wall Sheet 34.
 2. For Railing Details, see Wall Sheet 36.
 3. For Lighting Standard Details, see Wall Sheet 34.

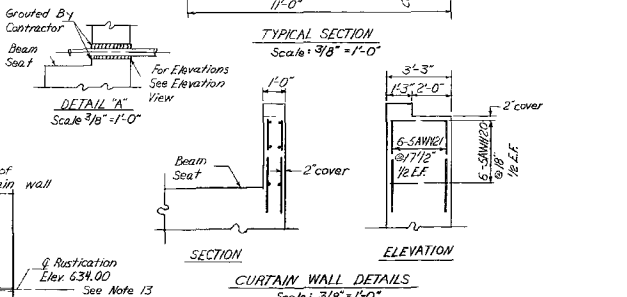
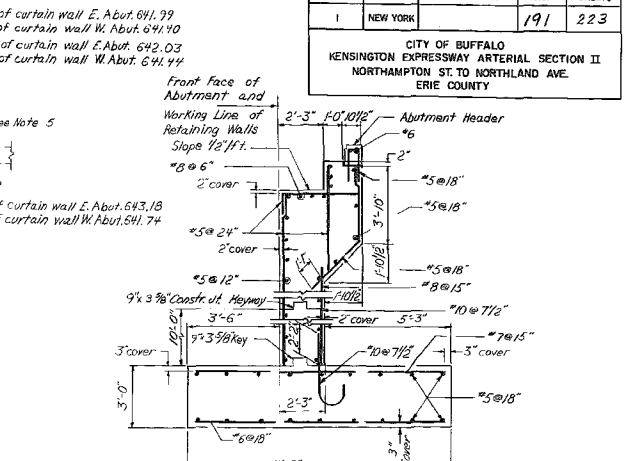
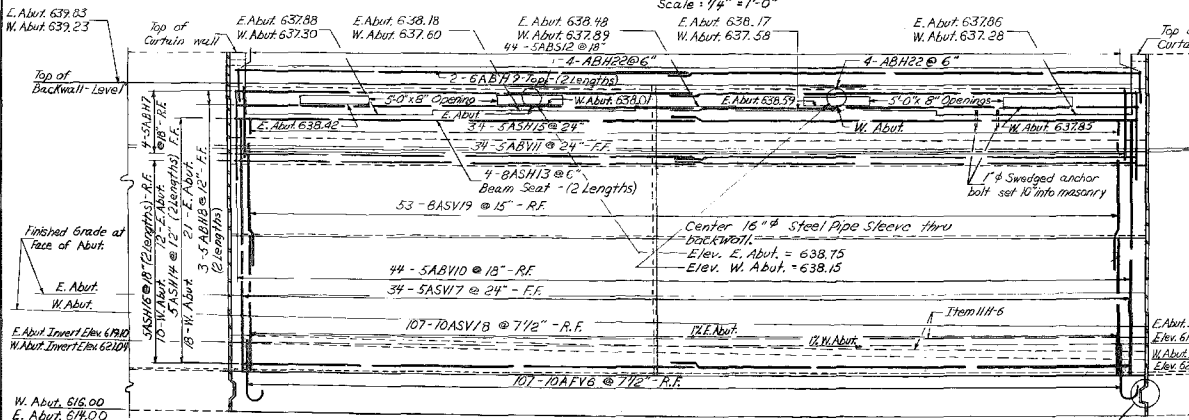
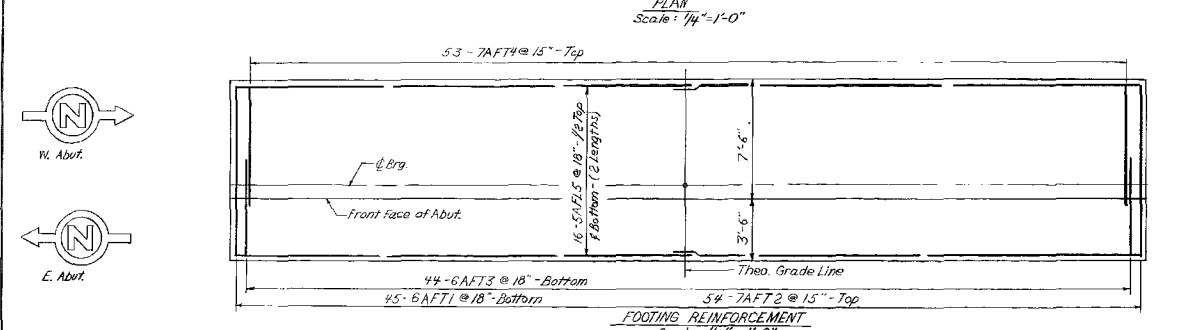
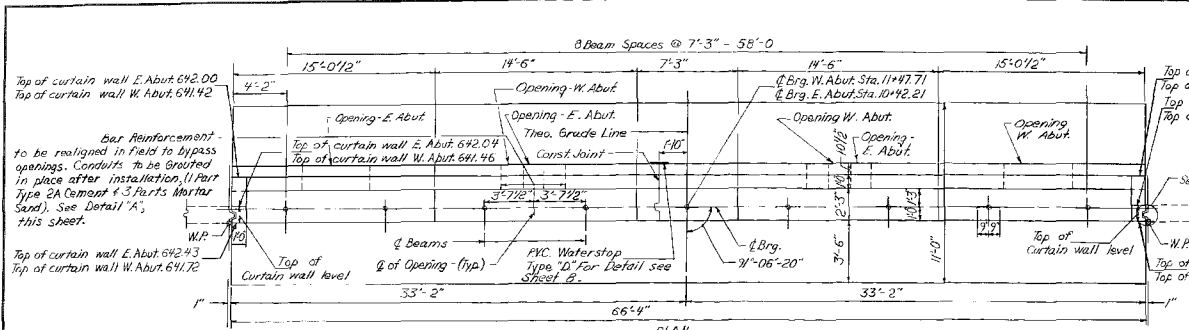
Date:	10-20-67
In Charge Of:	H. G. COLES
Designed By:	K. W. BOOT
Traced By:	E. V. FLACCAVENTO
Checked By:	L. W. REGULAR

SUMMARY OF QUANTITIES TYPICAL SECTIONS RETAINING WALLS NO. 1, 2, 3, AND 4	
PREPARED AND RECOMMENDED BY	M. J. McMillan
N.Y.S.P.E. LIC. NO. 11650	DATE: 10-21-67
MCFARLAND-JOHNSON	ENGINEERS



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		191	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures. Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the Wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Vertical Surfaces, Bridge Seats, including the area under the Bearings, Exposed Vertical Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Trowel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Pay Lines at Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Cantilet Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the foundation pressure does not exceed 10 tons per square foot.

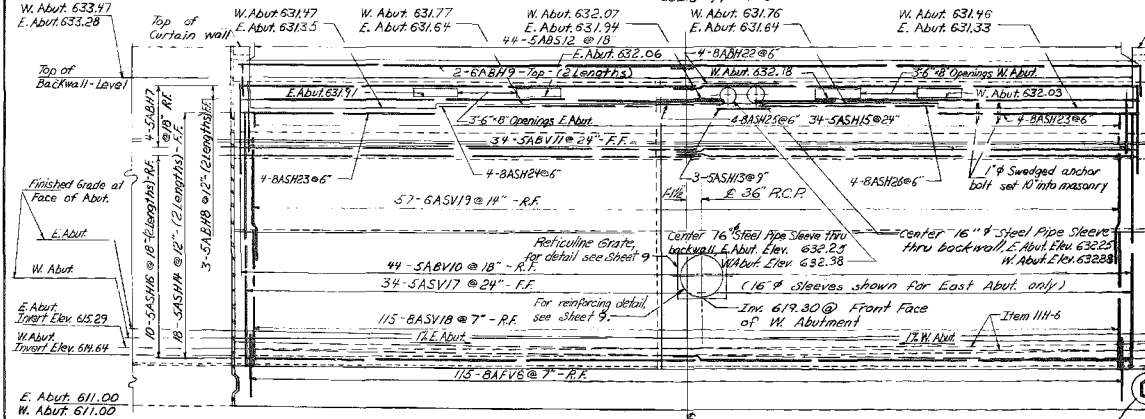
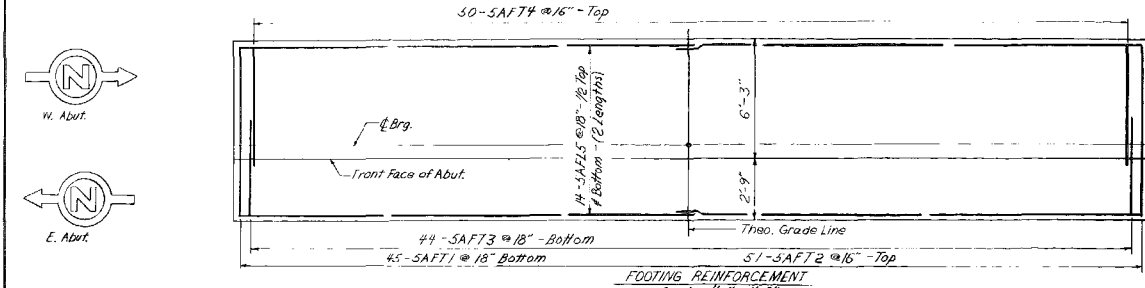
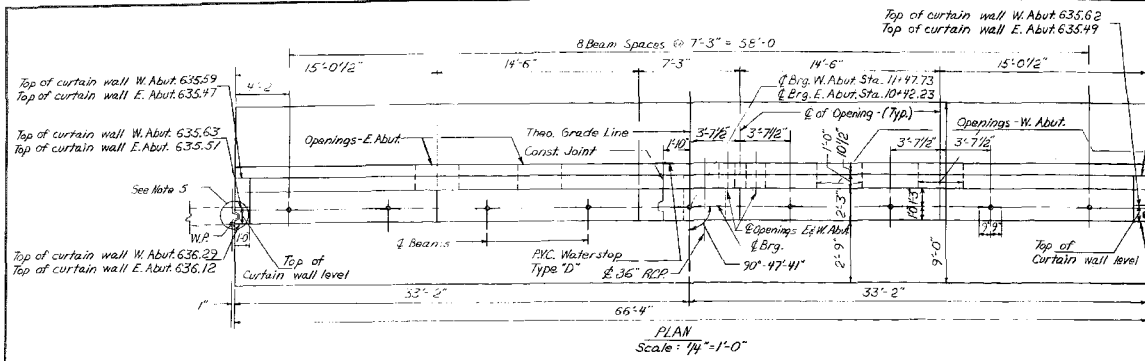
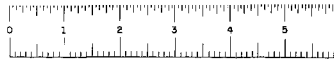
Date: JULY 14, 1957
In Charge Of: H. G. COLES
Designed By: W. D. SWECKER
Traced By: J. F. MEYER
Checked By: W. D. SWECKER

BRIDGE NO. 1

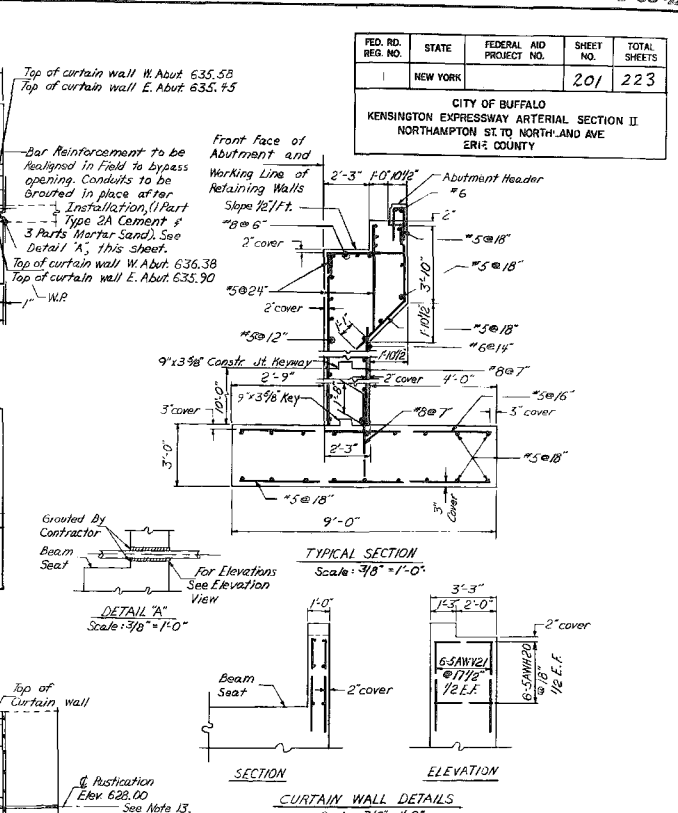
EAST UTICA STREET
OVER KENSINGTON EXPRESSWAY
ABUTMENT DETAILS

PREPARED AND RECOMMENDED
By: *W. D. Swecker* N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-57
McFARLAND-JOHNSON ENGINEERS

BRIDGE SHEET 3 OF 10



Date:	JULY 14, 1947
In Charge Of:	H. G. COLES
Designed By:	W. D. SWICKER
Traced By:	J. F. MEYER
Checked By:	W. D. SWICKER



NOTES:

- Concrete in Abutment shall be Item 20, Class B Concrete for Structures.
- Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
- Bituminous Material, Item 61, shall be applied to the back of Abutment above top of footing, where fill is in contact with the wall.
- Epoxy Protective Coating for Concrete shall be applied to all Exposed Reinforcing Surfaces of Backwall and Curtain Walls facing the Superstructure.
- Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Travel Finished.
- For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
- For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
- For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
- For Ray Lines of Abutment, see sheet No. 8.
- For Railing Details, see sheet No. 7.
- For Conduit Alignment, see sheet No. 5.
- For Rustication Details, see sheet No. 8.
- For Bar Schedule, see sheet No. 9.
- For design purposes, the Foundation Pressure does not exceed 10 tons per square foot.

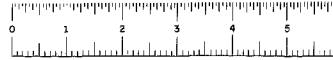
BRIDGE NO. 2

EAST FERRY STREET OVER KENSINGTON EXPRESSWAY ABUTMENT DETAILS

PREPARED AND RECOMMENDED BY
 McFARLAND JOHNSON
 N.Y.S.P.E. LIC. NO. 20182 DATE 7-23-47
 ENGINEERS

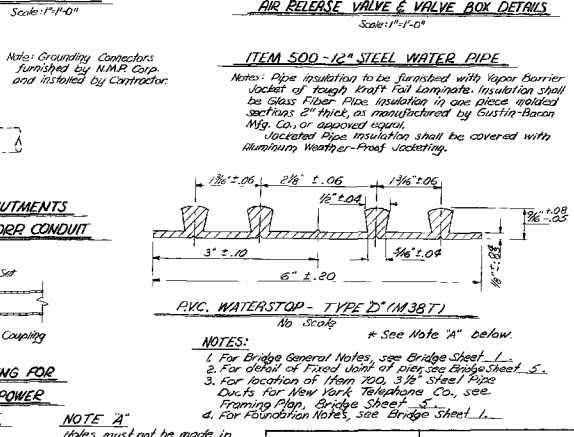
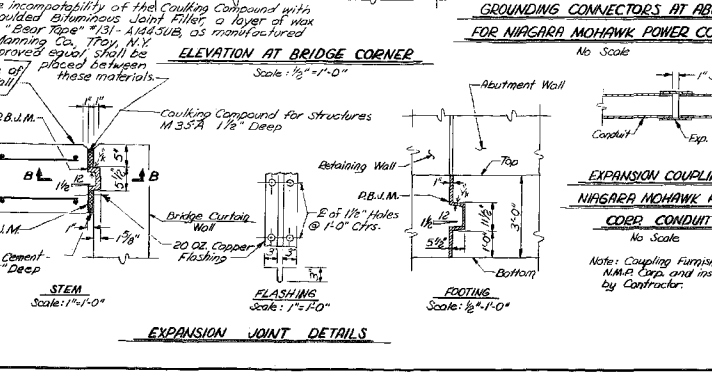
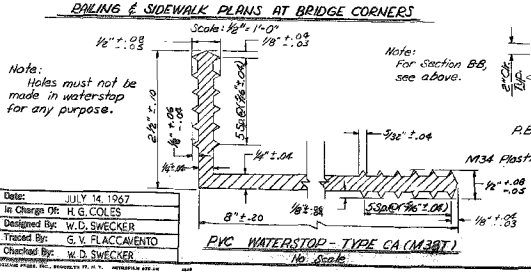
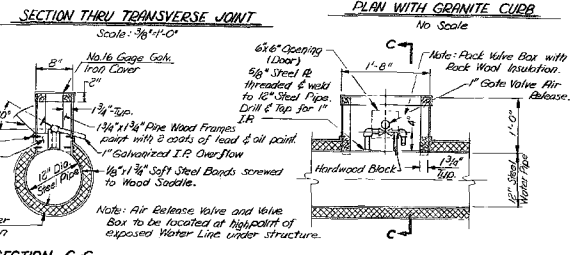
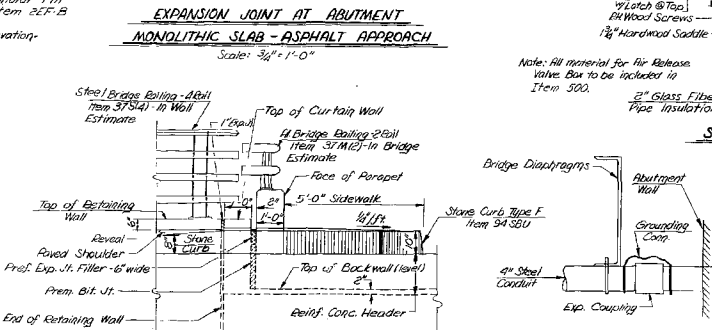
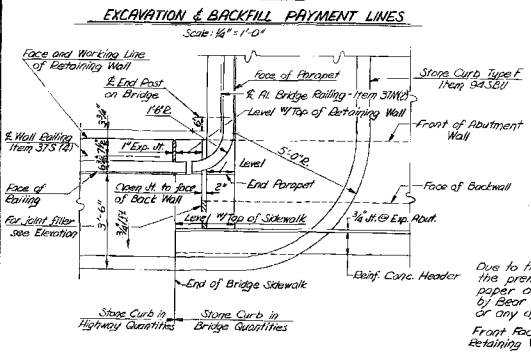
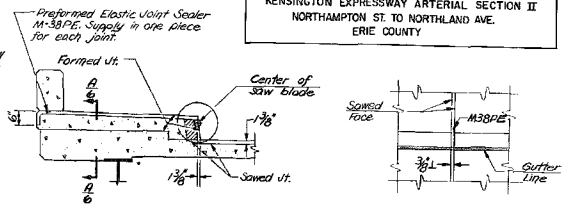
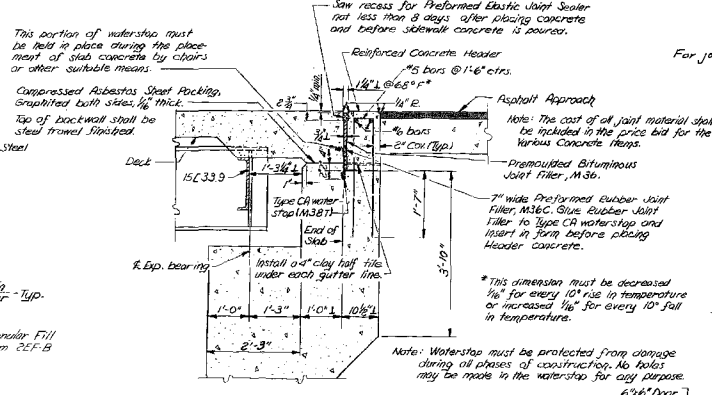
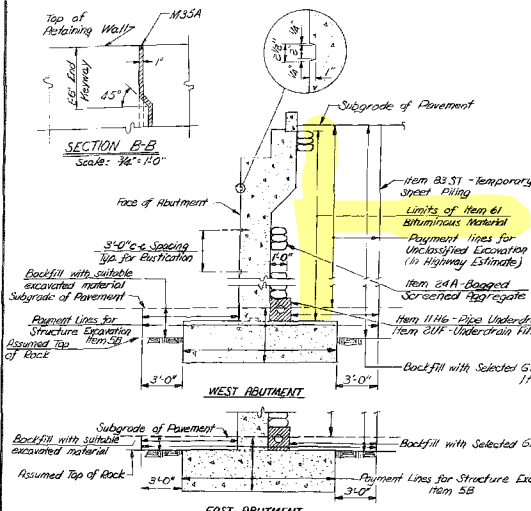
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		201	223

CITY OF BUFFALO
 KENSINGTON EXPRESSWAY ARTERIAL SECTION II
 NORTHAMPTON ST. TO NORTH AND AVE
 ERIE COUNTY



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		206	

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



Date: JULY 14, 1967
In Charge Of: W.G. COLLIER
Designed By: W.D. SWECKER
Traced By: G.V. PLACCAVENTO
Checked By: W.D. SWECKER

BRIDGE NO. 2	EAST FERRY STREET OVER KENSINGTON EXPRESSWAY MISCELLANEOUS DETAILS
PREPARED AND RECOMMENDED McFarland-Johnson	N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-67 ENGINEERS

Asbestos Sampling Survey

Location:

Dodge Street Bridge over Route 33
City of Buffalo, New York

Prepared for:

New York State
Department of Transportation

PIN 5512.36.122

LaBella Project No. 201001

October 2002

Asbestos Sampling Survey

Dodge Street Bridge over Route 33
City of Buffalo, New York

Prepared for:
New York State
Department of Transportation

PIN 5512.36.122

LaBella Project No. 201001

October 2002

LaBella Associates, P.C.
300 State Street
Rochester, New York 14614-1098

Table of Contents

	Page
I. Project Summary	1
II. Site Description	1
III. Inspection Procedures	1
IV. Results	2
Certification	2
Figures and Table	

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey on the Dodge Street Bridge over Route 33. Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

Type of Material	Estimated Amount
Sheet Packing	8.7 Square Meters
Joint Sealer	16.4 Meters

II. Site Description

The Site is located in Erie County, New York. For the purpose of this report, the Site consists of BIN 1022610 –Dodge Street Bridge over Route 33 (See FIGURE 1).

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. One sample was taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in FIGURE 2. Results of bulk sample analyses are tabulated in the Bulk Sample Results Table.

IV. Results

Based on the analytical results, the following materials were determined to be asbestos-containing:

BIN 1022610-Dodge Street Bridge over Route 33

Sheet Packing

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 8.7 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

Joint Sealer

Asbestos-containing joint sealer is located in the vertical joints between the back walls and the retaining walls at both ends of the bridge. It is estimated that the total amount of this asbestos-containing joint sealer is approximately 16.4 meters. This estimate is based on field measurements taken at the time of the site visit.

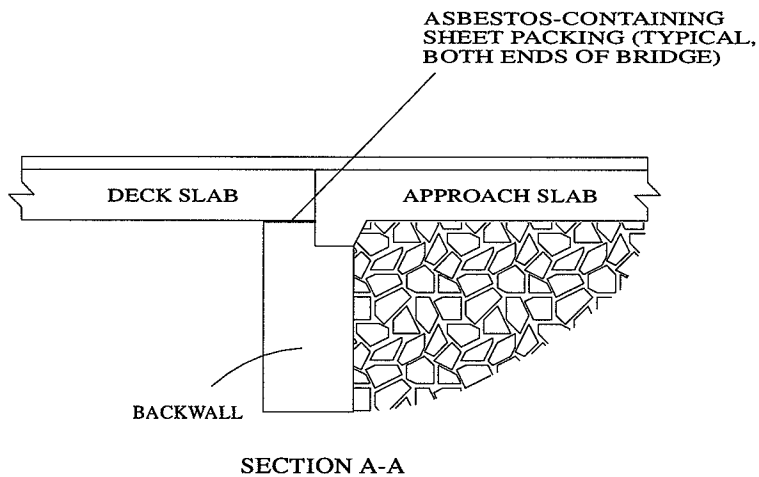
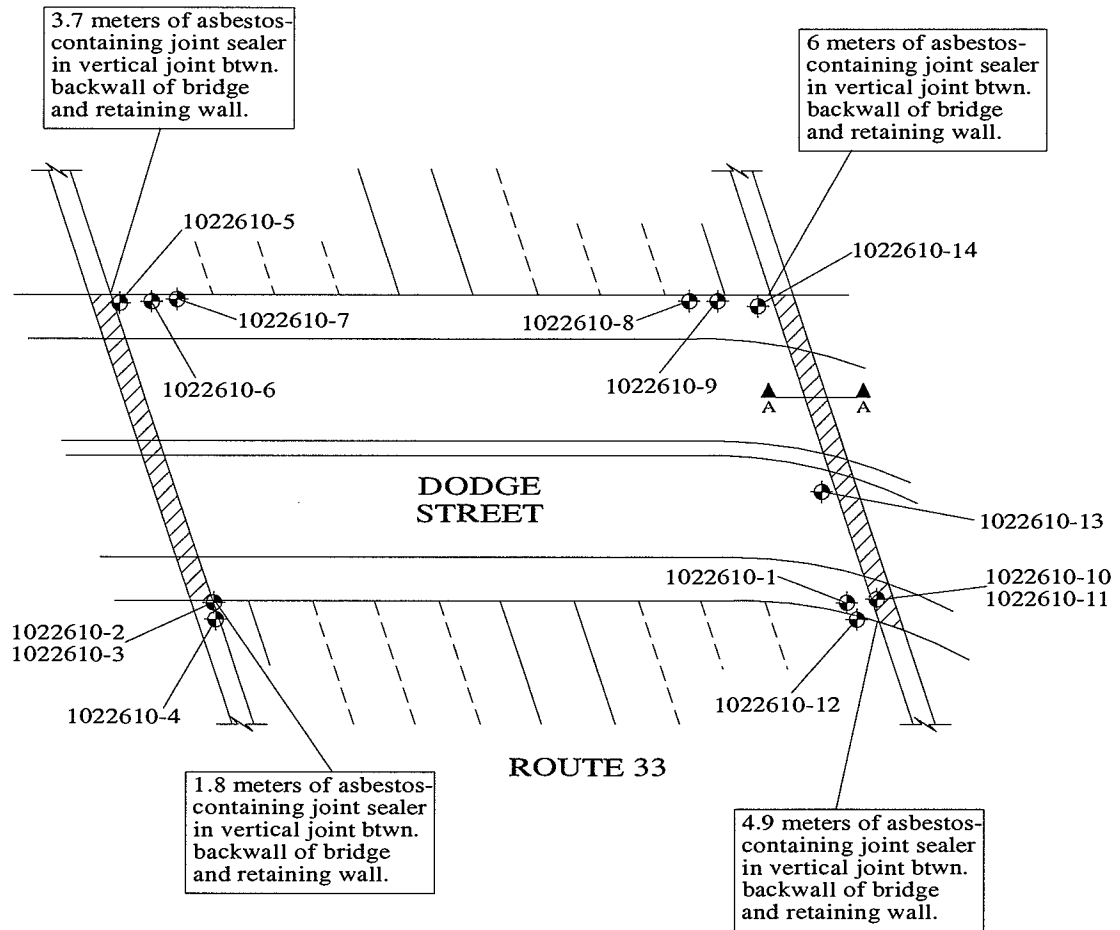
The approximate locations of this asbestos-containing joint sealer are noted in FIGURE 2.

Certification



LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

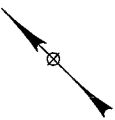

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Figures & Table



LEGEND

-  1022610-1 SAMPLE LOCATION
-  ASBESTOS-CONTAINING SHEET PACKING

 TRUE NORTH	 CALLED NORTH	PROJECT TITLE: ASBESTOS SAMPLING SURVEY DODGE STREET OVER ROUTE 33 CITY OF BUFFALO ERIE COUNTY, NEW YORK	PROJECT NO. 201001
		FIGURE TITLE: FIGURE 2 DODGE STREET OVER ROUTE 33 BIN 1022610 SAMPLE LOCATIONS & CONFIRMED ACM	PIN 5512.36.122
			NOT TO SCALE
			DATE: OCTOBER 2002

Bulk Sample Results Table

Asbestos Sampling Survey
Dodge Street Bridge over Route 33
City of Buffalo, New York
LaBella Project # 201001
PIN 5512.36.122

BIN 1022610 – Dodge Street Bridge over Route 33

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material
1022610-1	East End of Bridge on South Railing	Silver/Red Paint	None Detected	N/A
1022610-2	West End of Bridge Between Deck and Cheek Wall	Black Joint Sealer	None Detected	N/A
1022610-3	West End of Bridge Between Deck and Cheek Wall	Brown Joint Filler	None Detected	N/A
1022610-4	Southwest Corner of Bridge Between Back Wall & Retaining Wall	Brown Joint Sealer	16% Chrysotile	16.4 Meters
1022610-5	Northwest Corner of West Abutment	Gray Masonry Coating	None Detected	N/A
1022610-6	West End of Bridge on North Railing	Silver/Red Paint	None Detected	N/A
1022610-7	West End of Bridge on Light Pole	Green/Orange Paint	None Detected	N/A
1022610-8	East End of Bridge on North Railing	Silver/Orange/Green Paint	None Detected	N/A
1022610-9	East End of Bridge on Light Pole	Green/Orange Paint	None Detected	N/A
1022610-10	East End of Bridge Between Deck & Abutment	Sheet Packing	40% Chrysotile	8.7 Square Meters
1022610-11	East End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A
1022610-12	East End of Bridge on South Fascia Girder	Tan Paint	None Detected	N/A
1022610-13	East End of Bridge on Diaphragm	Tan Paint	None Detected	N/A
1022610-14	East End of Bridge on North Fascia Girder	Tan Paint	None Detected	N/A

BIN 1022610

DODGE STREET OVER ROUTE 33 BRIDGE PAINT ASBESTOS TESTING BULK SAMPLE SUMMARY TABLE

*OTHER SUSPECT MATERIALS ALSO TESTED
SEE LABELLA ASSOCIATES SAMPLING SURVEY REPORT
DATED OCTOBER 2002*

SAMPLE #	SAMPLE DATE	HOMOGENEOUS AREA	SAMPLE LOCATION	RESULTS- % ASBESTOS *	ANALYSIS METHOD
1022610-1	9/5/02	Silver/Red Paint	East End of Bridge on South Railing	None detected	TEM **
1022610-6	9/5/02	Silver/Red Paint	West End of Bridge on North Railing	None detected	TEM **
1022610-7	9/5/02	Green/Orange Paint	West End of Bridge on Light Pole	None detected	TEM **
1022610-8	9/5/02	Silver/Red Paint	East End of Bridge on North Railing	None detected	TEM **
1022610-9	9/5/02	Green/Orange Paint	East End of Bridge on Light Pole	None detected	TEM **
1022610-12	9/5/02	Tan Paint	East End of Bridge on South Fascia Girder	None detected	TEM **
1022610-13	9/5/02	Tan Paint	East End of Bridge on Diaphragm	None detected	TEM **
1022610-14	9/5/02	Tan Paint	East End of Bridge on North Fascia Girder	None detected	TEM **

* PLM = Polarized Light Microscopy

** TEM = Transmission Electron Microscopy

LaBella Project No. 201001

PIN 5512.36.122

1022610

Asbestos-Containing Materials Inspection

FOR

BIN 1022620
Northampton Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates
300 State St #201
Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5
100 Seneca Street
Buffalo, NY 14203

PIN – 5512.52.123
D038277

Watts Project No. 20220255
August 2023, Revised September 2023

Submitted by:

Watts
Architects
&Engineers

BUFFALO / SYRACUSE / NEW YORK

watts-ae.com



Watts Project Contact and Asbestos Fact Sheet

Watts Architects & Engineers

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Andrew Klimek, CHMM, PG
Project Manager, Env. Dept. Manager
aklimek@watts-ae.com
716 206 5120

BUFFALO / SYRACUSE / NEW YORK watts-ae.com



Name and Address of Building/Structure

BIN 1022620 - Northampton Street Bridge over
Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers
Matthew E. Holquist (NYS DOL Cert #01-08239)
Robert S. Swick (NYS DOL Cert #20-05731)
William G. Coyle (NYS DOL Cert #17-39002)

Date(s) the Inspection Was Conducted

May 10 & 23, 2023

Table of Contents

Watts Project Contact and Asbestos Fact Sheet	i
Table of Contents	ii
1.0 / Introduction	1
2.0 / Inspection Results	1
3.0 / Inspection Procedures	5
4.0 / Inspection Limitations	6
5.0 / Conclusions and Recommendations	6
Asbestos Bulk Sample Summary Table.....	8

Appendices

Appendix A – Photos

Appendix B – Figures

 Figure 1 – Project Location Map

 Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan
and Project Information

1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Northampton Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022620) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 – Dodge Street Bridge over NYS Route 33
- BIN 1022620 – Northampton Street Bridge over NYS Route 33
- BIN 1022630 – East Utica Street Bridge over NYS Route 33
- BIN 1022640 – East Ferry Street Bridge over NYS Route 33
- BIN 1022609 – Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected a total of twenty-one (21) bulk samples to represent the seven (7) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022620 – Northampton Street Bridge over Kensington Expressway (NYS Route 33).

Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Black Pipe Coating ¹	Suspended Below Bridge Deck (South Side)	120 LF	Non-Friable	Good	210.3211
Abutment / Retaining Wall Caulking ¹	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

¹ - ACM was previously identified during a former ACM survey/inspection. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding this ACM.

Confirmed ACM Details

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

Black Pipe Coating

The asbestos-containing black pipe coating associated with this bridge was previously tested and identified as an ACM during the 2013 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Asbestos-containing pipe coating is located in the waterline suspended along the south side of the bridge. It is estimated that the total amount of the pipe coating is approximately 120 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing pipe coating is shown in Figure 2.

Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested (and referred to as Black Joint Sealer) and identified as an ACM during the 2013 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report. This ACM is homogeneous with the asbestos-containing abutment / retaining wall caulking that has been identified throughout the Kensington project corridor.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022620, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Inaccessible Assumed ACM

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201
Compressed Asbestos Sheet Packing	Between Bottom of Deck and Tops of Abutments at Both Ends of Bridge	~140 SF	Non-Friable	Good	210.3312

Inaccessible Assumed ACM Details

Waterproofing – Item 61 – Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

Compressed Asbestos Sheet Packing

Record plans dated March 1963 indicate “Compressed Asbestos Sheet Packing” is located between the deck slab and the top of backwall. This material was not visible during any of the site inspections. There have been no available records that indicate this ACM was removed, thus it is assumed to be present.

Compressed Asbestos Sheet Packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Typically, the edges of the sheet packing are exposed and visible at various locations, however this ACM was not visible during any of the field inspections. It is estimated that the total amount of compressed asbestos sheet packing that is present within the bridge structure is approximately 130 square feet (approximately 65 square feet per abutment). The assumed approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**.

The 2013 Asbestos Survey Report identified the additional following two (2) Inaccessible/Assumed ACM as possibly being present at the Northampton Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022620):

- Asbestos-containing caulking surrounding steel conduits buried within the concrete sidewalk on both sides of the bridge.
- Asbestos-containing pipe wrap associated with the 10-inch and 8-inch protection sleeves located on the 8-inch and 6-inch high pressure gas lines.

Record plans dated March 1963 indicate that there are steel utility conduits buried within the concrete sidewalk on both sides of the bridge. While suspect asbestos-containing caulking potentially could be located around the expansion sleeves of the conduits buried in the sidewalks, no caulking or sealant was specifically called out within the construction documents, nor has it been observed during any of the field inspections. In addition, the same record plans indicate that there are 10-inch and 8-inch protection sleeves around the 8-inch and 6-inch high pressure gas utility lines suspended from the bridge deck. While suspect asbestos-containing pipe wrap could be located on the gas mains beneath the protection sleeves, none was called out within the construction documents, nor has it been observed during any of the field inspections. Without further information confirming that these suspect asbestos-containing materials are actually located at the bridge, they are no longer considered an Inaccessible/Assumed ACM. If additional information is obtained regarding their potential presence, or if these items are observed during construction, they must be assumed to be an ACM until testing can prove otherwise.

3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A – Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

- Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.
- Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.
- Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6”-12” below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- **Black Pipe Coating (Pay Item 210.3211 Removal and Disposal of Suspended Pipe ACM (BV14) Foot)** – Approximately 120 linear feet of black pipe coating is associated with the suspended water utility located along the south side of the bridge at BIN 1022609.
- **Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos-containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.
- **Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing

grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- **Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot)** – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.
- **Compressed Asbestos Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 140 square feet (70 square feet each side) of Compressed Asbestos Sheet Packing is assumed to be located between the top of the abutments and the bottom of the deck slab at both ends of the bridge of BIN 1022620.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.

Asbestos Bulk Sample Summary Table

BIN 1022620 – Northampton Street Bridge over Kensington Expressway (NYS Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5512.52.123

Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022620-01	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-02	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-03	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-04	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022620-05	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022620-06	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022620-07	Grey Caulk at Sidewalks	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-08	Grey Caulk at Sidewalks	NW Quadrant, Between Sidewalk and Lighting Pole Foundation	None Detected
1022620-09	Grey Caulk at Sidewalks	NW Quadrant, Sidewalk Joints	None Detected
1022620-10	Silver/Brown Railing Paint	North Railing, West End	None Detected
1022620-11	Silver/Brown Railing Paint	South Railing, East End	None Detected
1022620-12	Silver/Brown Railing Paint	South Railing, West End	None Detected
1022620-13	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-14	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022620-15	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-16	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-17	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-18	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-19	Black/Green Light Pole Paint	North Sidewalk, East End	None Detected
1022620-20	Black/Green Light Pole Paint	South Sidewalk, West End	None Detected
1022620-21	Black/Green Light Pole Paint	North Sidewalk, East End	None Detected

Appendix A

Photos



Photo 1 - View to the southern side of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620).



Photo 2 - View to the north from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620). Project corridor retaining walls are visible in the background of the photo.



Photo 3 - View to the east from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620).



Photo 4 - View to the south from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620). Project corridor retaining walls are visible in the background of the photo. ACM caulking is only associated with the older lower portion of the walls.



Photo 5 – BIN plate located on the adjacent fence at the southwest quadrant of BIN 1022620. ACM caulking is only associated with the older lower portion of the walls.



Photo 6 – View of the recently installed decorative upper portion retaining wall adjacent to BIN 1022620. Additional suspect ACM was identified and sampled, however all samples associated with the upper portion were negative for asbestos. The ACM caulking is only associated with the older lower portions of the retaining walls system in this area. (See Photos 4 & 5)



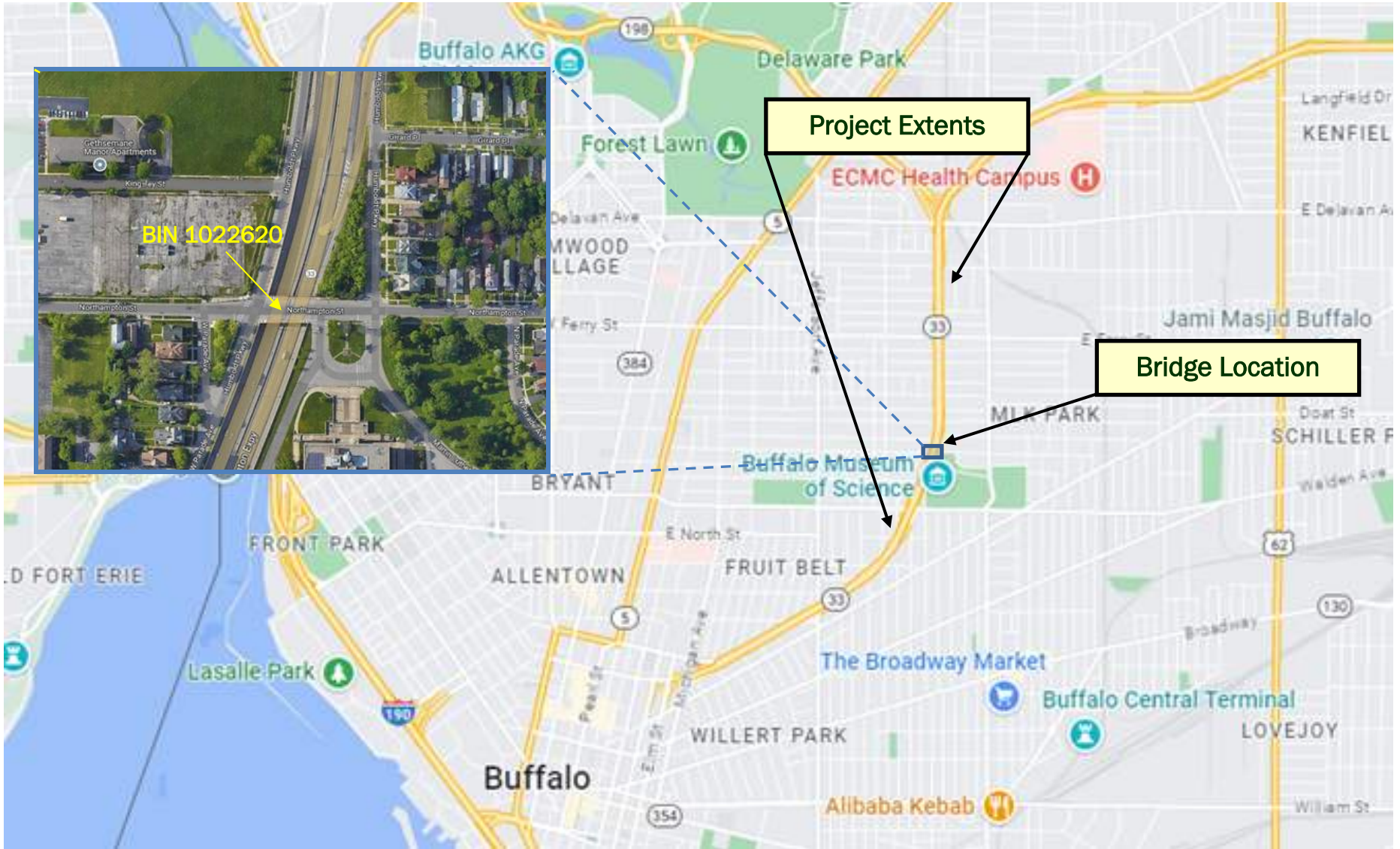
Photo 7 - Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



Photo 8 - Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

Appendix B

Figures



Project Location

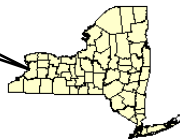


FIGURE 1 - PROJECT LOCATION MAP

Northampton St over Kensington Expressway (Rt 33)
BIN 1022620
City of Buffalo, Erie County, New York

Not to Scale

June 2023

Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302269
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022620/North Hampton over Kensington (Rt. 33)

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 05/23/2023 3:36 PM
Analysis Date: 05/31/2023 - 06/01/2023
Collected Date: 05/10/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022620-01 142302269-0001		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	06/01/2023	Various		100.00% Other	None Detected
Sample ID 1022620-02 142302269-0002		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	06/01/2023	Various		100.00% Other	None Detected
Sample ID 1022620-03 142302269-0003		Description	Vapor Barrier Jacket on Fiberglass Insulation		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	06/01/2023	Various		100.00% Other	None Detected
Sample ID 1022620-04 142302269-0004		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022620-05 142302269-0005		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected

Initial report from: 05/31/2023 09:11:12



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302269
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022620-06 142302269-0006		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022620-07 142302269-0007		Description	Grey Caulk at Sidewalks		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022620-08 142302269-0008		Description	Grey Caulk at Sidewalks		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022620-09 142302269-0009		Description	Grey Caulk at Sidewalks		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022620-10 142302269-0010		Description	Silver/Brown Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Silver/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Silver/ Rust		100.00% Other	None Detected
Sample ID 1022620-11 142302269-0011		Description	Silver/Brown Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Silver/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Silver/ Rust		100.00% Other	None Detected

Initial report from: 05/31/2023 09:11:12



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302269
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022620-12 142302269-0012		Description	Silver/Brown Railing Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID 1022620-13 142302269-0013		Description	Black Tar at Retaining Wall		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023				Insufficient Residue
Final Residue <1% of original subsample – Non-ACM					
TEM NYS 198.4 NOB	05/31/2023				Not Analyzed
Sample ID 1022620-14 142302269-0014		Description	Black Tar at Retaining Wall		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black		100.00% Other	None Detected
Sample ID 1022620-15 142302269-0015		Description	Black Tar at Retaining Wall		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023				Insufficient Residue
Final Residue <1% of original subsample – Non-ACM					
TEM NYS 198.4 NOB	05/31/2023				Not Analyzed
Sample ID 1022620-16 142302269-0016		Description	Black Tar Paper at Retaining Wall		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black		100.00% Other	None Detected
Sample ID 1022620-17 142302269-0017		Description	Black Tar Paper at Retaining Wall		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Black		100.00% Other	None Detected

Initial report from: 05/31/2023 09:11:12



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302269
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022620-18 142302269-0018		Description	Black Tar Paper at Retaining Wall		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Tan/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Tan/ Black		100.00% Other	None Detected
Sample ID 1022620-19 142302269-0019		Description	Black/Green Light Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID 1022620-20 142302269-0020		Description	Black/Green Light Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID 1022620-21 142302269-0021		Description	Black/Green Light Pole Paint		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Various		100.00% Other	None Detected

Initial report from: 05/31/2023 09:11:12



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalo@emsl.com>

EMSL Order: 142302269
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 5/23/2023
Analysis Completed Date: 6/1/2023

Sample Receipt Time: 3:36 PM
Analysis Completed Time: 9:21 AM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (19)

Tom Hanes TEM NYS 198.4 NOB (19)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/31/2023 09:11:12

142302269

**WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY**

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022620/North Hampton over Kensington (Rt. 33)
Contact: Matt Holquist at **(716) 435-1724**
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23

Watts Project No.: 20220255

Analysis Requested:	Turnaround Time Requested:
ELAP 198.1 (Friable PLM) <u>X</u>	24 Hr. <u> </u> 5 Day <u> </u>
ELAP 198.6 (NOB PLM) <u>X</u>	48 Hr. <u> </u> 1 Week <u>X</u>
ELAP 198.4 (NOB TEM) <u>X</u>	72 Hr. <u> </u> 2 Weeks <u> </u>
Other (Specify) <u> </u>	96 Hr. <u> </u>

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022620-13	Black Tar at Retaining Wall	5	NW Quadrant, Between Sidewalk and Retaining Wall		
1022620-14	Black Tar at Retaining Wall	5	NW Quadrant, Between Sidewalk and Retaining Wall		
1022620-15	Black Tar at Retaining Wall	5	SW Quadrant, Between Sidewalk and Retaining Wall		
1022620-16	Black Tar Paper at Retaining Wall	6	NW Quadrant, Between Sidewalk and Retaining Wall		
1022620-17	Black Tar Paper at Retaining Wall	6	SW Quadrant, Between Sidewalk and Retaining Wall		
1022620-18	Black Tar Paper at Retaining Wall	6	SE Quadrant, Between Sidewalk and Retaining Wall		
1022620-19	Black/Green Light Pole Paint	7	North Sidewalk, East End		
1022620-20	Black/Green Light Pole Paint	7	South Sidewalk, West End		
1022620-21	Black/Green Light Pole Paint	7	North Sidewalk, East End		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/10/23 Time: 17:00 **Received By:** Date:

Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/23/23 Time: 15:30 **Received By:** Date:

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

RECEIVED
MAY 23 2023

BY: *WT* 3:36
WT

Appendix D

License(s)
And
Certification(s)



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2023

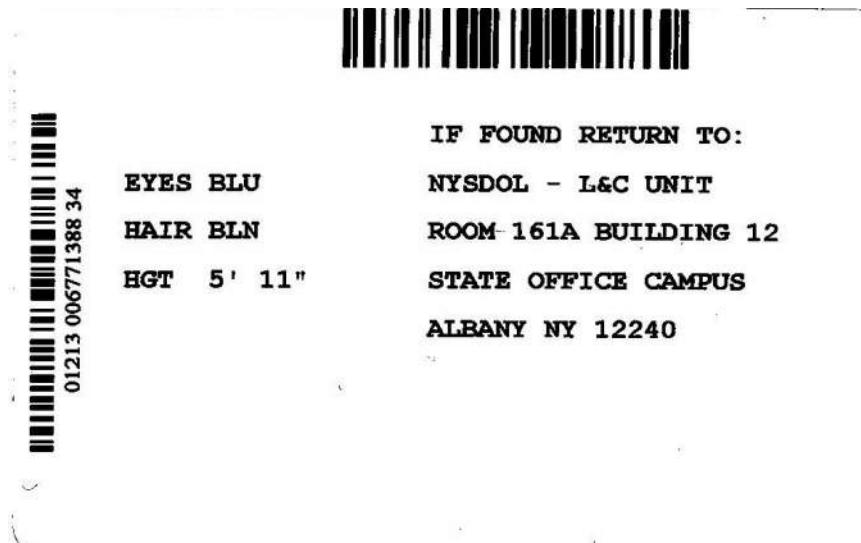
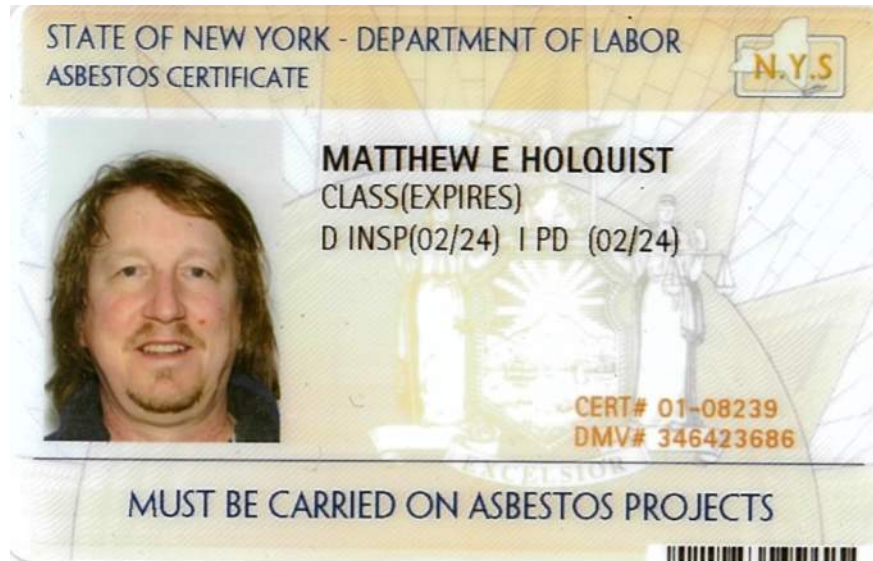
Duly Authorized Representative – Kevin Janik:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

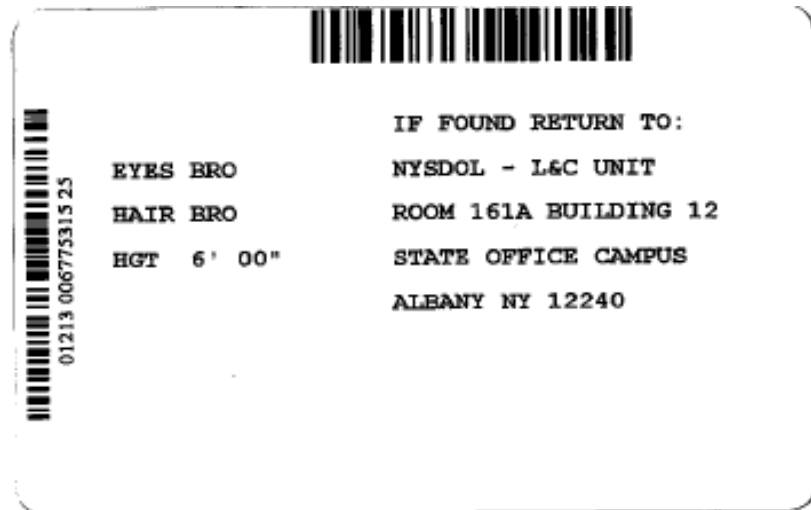
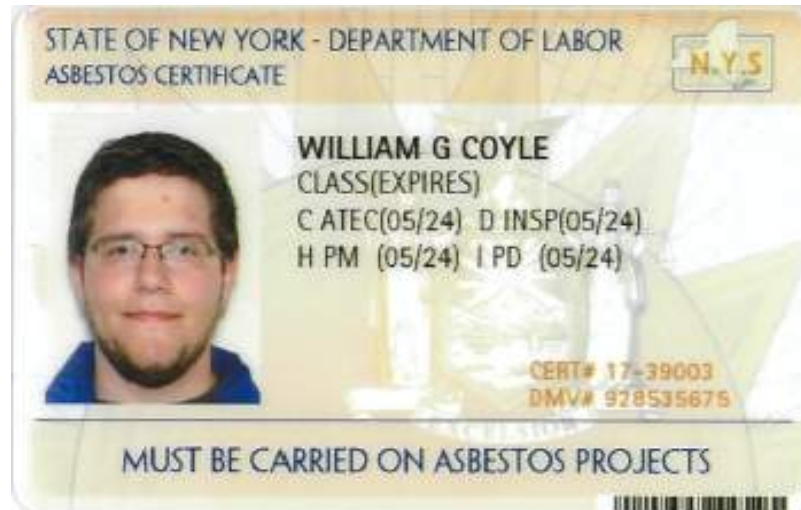
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



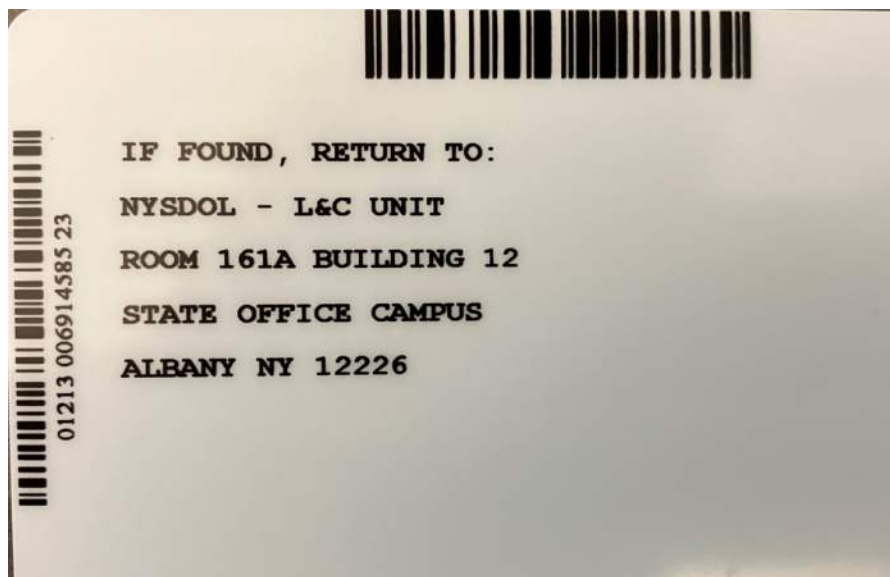
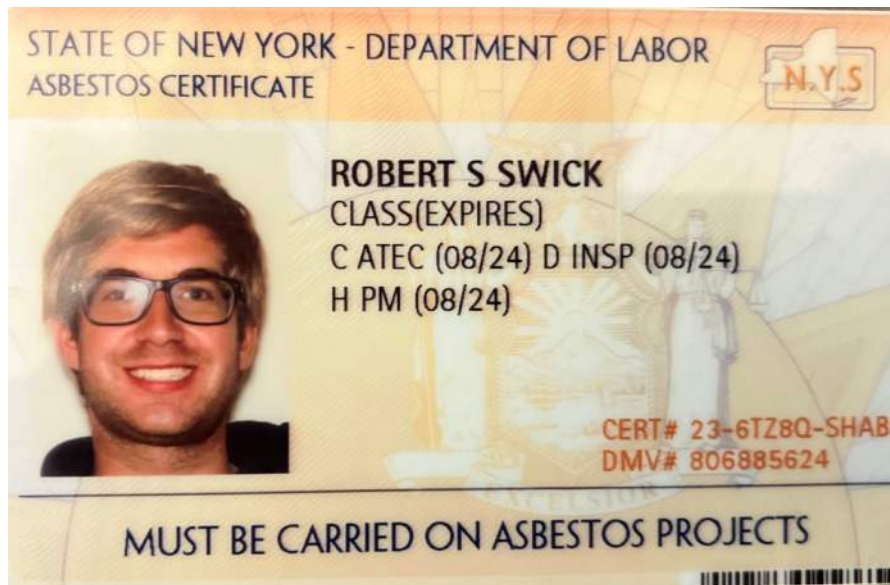
Matthew E. Holquist

D - Inspector
I - Project Designer



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

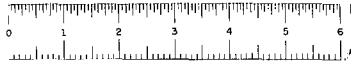


Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor

Appendix E

Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information



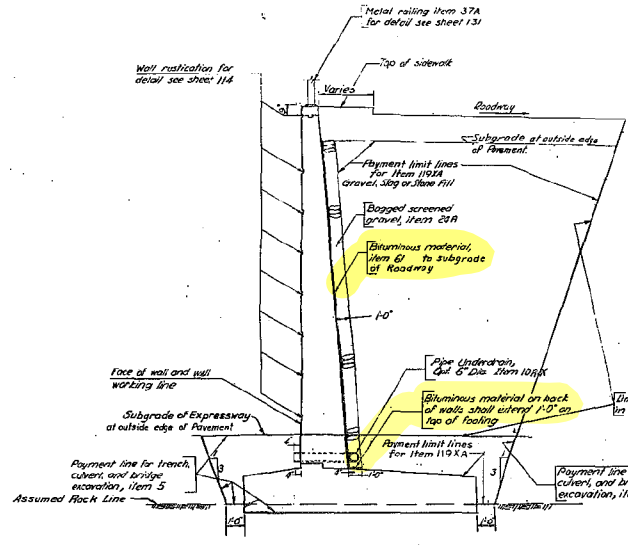
F.A.C. 59-19					
FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(1)	5	132	178

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

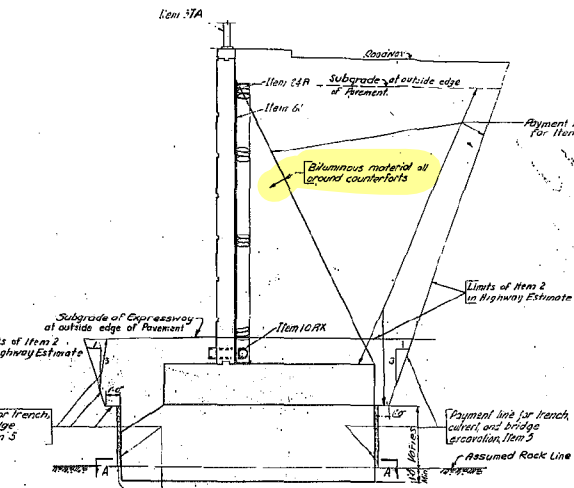
GENERAL NOTES FOR WALLS

- Design is based on 1953 Specifications of A.A.S.H.O. (modified).
- See plans and elevations of walls on wall sheets, for location and extent of wall sections, elevations of bottom of footings, location of all joints, setting layout, piles and rustication pattern.
- All concrete for wall construction is Item 185 unless otherwise indicated on sections.
- All splices shall be 40 diameters minimum.
- Minimum clear spacing of bars must be 2".
- Before placing concrete, proper provision shall be made for any anchor bolts, utilities, drainage, expansion and contraction joint details, etc. as required.
- All expansion joints in walls, as shown on plans, are to be 1/2" unless otherwise indicated; as detailed on sheet No. 114.
- All longitudinal bars shall run continuous between contraction joints unless otherwise shown, and shall end 2' clear from the joints.
- The design of footings without piles is based on an allowable bearing pressure of 8 tons per sq. ft. on rock, and 1.3 tons per sq. ft. on soil.
- Backfill must be placed simultaneously against both sides of all walls.
- For locations where 6" diameter pipe underdrain is used, see plans and elevations of walls.
- Payment lines for excavation as shown on the wall sections are to be typical for all wall sections.
- Pile footings are based on allowable pile loading of 37 tons per pile.
- Piles shown battered are on 4 on 1 in direction, indicated on plan of footing and in sections.
- Design of footings shown may be changed as required, as directed by the Deputy Chief Engineer, after excavation is made and subsurface conditions determined. If piles are required where not shown, revised footing details will be furnished by the Engineer.
- All radii and dimensions are given along the working line face of wall unless otherwise noted.
- Conditions: Piers under footing to be individual, pour; footing to be individual pour; counterfort and wall to be poured monolithically.
- All cement used in the concrete items for walls shall be Portland Cement Type 2, Item 15-2, with Duxer A.E.A. (Air Entraining Agent) added. Duxer A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the water at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Duxer A.E.A. dispenser. The amount of Duxer A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 5% minimum and 5% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer. The cost of finishing and adding the Duxer A.E.A. and all the labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete item.
- The design of all wall sections is based on a certain height (from bottom of footing to top of wall) with 2'-0" intervals. The maximum height of the walls is indicated by the number of wall sections. For example: T-20 is to be used for heights varying from 16'-0" to 20'-0". If during construction, existing subsurface conditions make it necessary to lower or raise a wall beyond the limits, etc. called for wall section, the next lower or higher wall section shall be used, if ordered by Engineer.
- Minimum cover for reinforcement is 2" unless otherwise noted.
- All piles to be steel bearing H-piles (10" B.P. 42).
- A reinforcing detailer shall be used in Item 165, T-20's.
- FOOTING ON ROCK: All disintegrated or shattered material shall be removed to lines and levels ordered by the Engineer. Where sound rock is found below the planned levels of the bottom of footings, a depth of Class I concrete Item 203 shall be installed to the levels shown on the plans, or as directed by the Engineer. Rock removed for the levels directed by the Engineer and outside the footings must be replaced by backfill of Class I concrete for walls. Subgrade of Service Road - no payment will be made at outside edge of pavement.



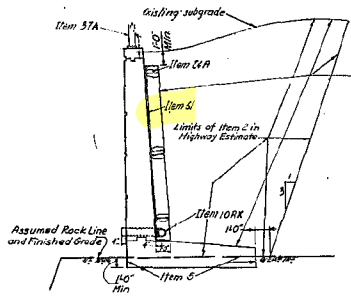
TYPICAL T-WALL SECTION IN ROCK

NOTE: Cost of pipe drain thru wall included in concrete item.



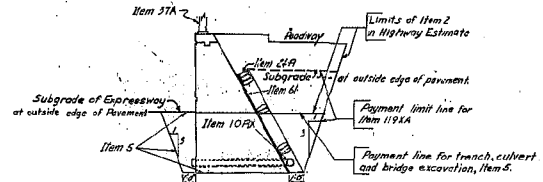
TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



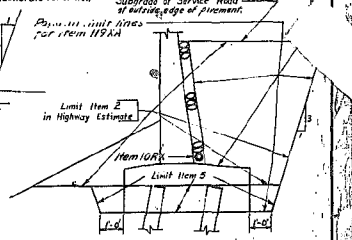
TYPICAL L-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



TYPICAL T-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in wall section in earth.

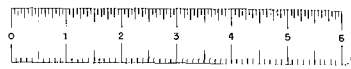


TYPICAL T-WALL SECTION ON PILES

GENERAL NOTES & PAYMENT-LINES FOR WALLS			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHER & BRILL	ENGINEERS-ARCHITECTS	DRAWN	CHECKED
		BY	BY
302 E. 44th ST. NEW YORK 17, N.Y.		NEW YORK 17, N.Y.	

SHEET NO. 132

NO AS BUILT REVISIONS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O. 1953 modified (loading H 20-44)

MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.

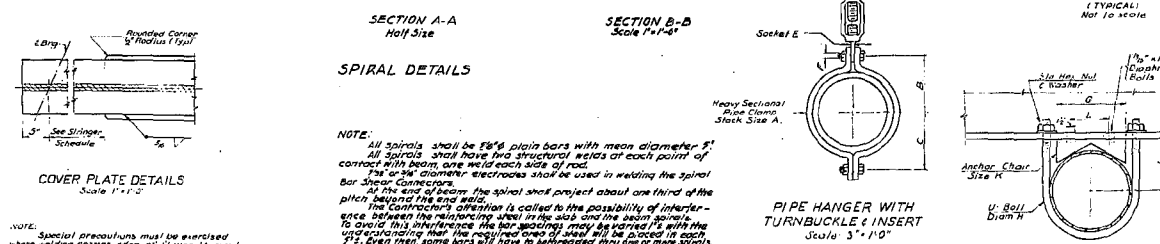
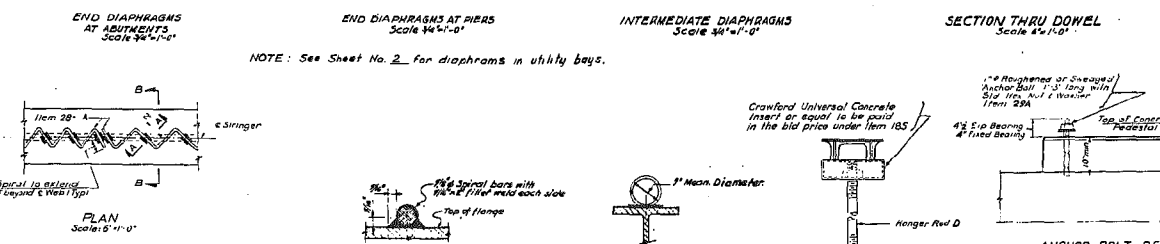
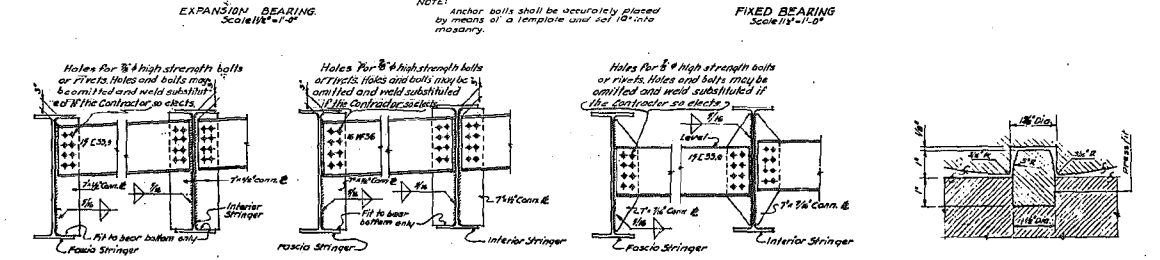
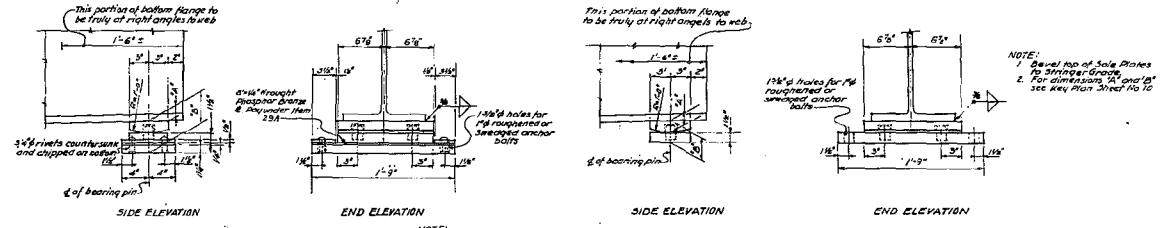
The cost of furnishing and installing, prepacked bituminous joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.

Joint Sealing Compound shall be paid for under Item 581X.

Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.

When the concrete is cured, finished and protected, rubbed, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.

Item 202B in highway estimate.



No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.

Field connections shall be made with 3/8" high strength bolts or rivets. Nuts and bolts may be omitted and weld substituted if the Contractor so elects.

Shop paint: Red lead and oil first field coat to be satisfactory dry paint. Second field coat to be gray green paint. Spinal bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.

To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of concrete sections of roadway and side walks. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.

Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.

The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.

All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.

Surface of bridge teals be poured 1/4" higher than elevation specified and bush hammered to exact elevation.

All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A.E.A. Air Entraining Agent added.

Dares A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A.E.A. dispenser. The amount of Dares A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.

The cost of furnishing and adding the Dares A.E.A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.

All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pile concrete shall be Item 185.

All concrete in abutments including wingwalls and footings and pier column footings shall be Item 303.

Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footings.

FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

A retaining partition shall be used in Item 18 and Item 205.

Size of pipe sleeves and type of hangers shall be as per the (request the Gas Dept. or Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	8 1/2"	3 1/2"	7"	3 1/2"	3"	5 1/2"	1 1/2"	5 1/2"	5 1/2"

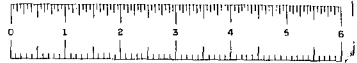
NO AS BUILT KEYINGS

NOTE: Pipe supports for Water Line shall be included in the bid price for Item 18.5. Anchor Chairs with U-Bolts and pipe hangers for Gas Line to be furnished and erected by others. Notes in diaphragms to be provided by Contractor.

BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES

STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL
KENSINGTON EXPRESSWAY, SEC. 1

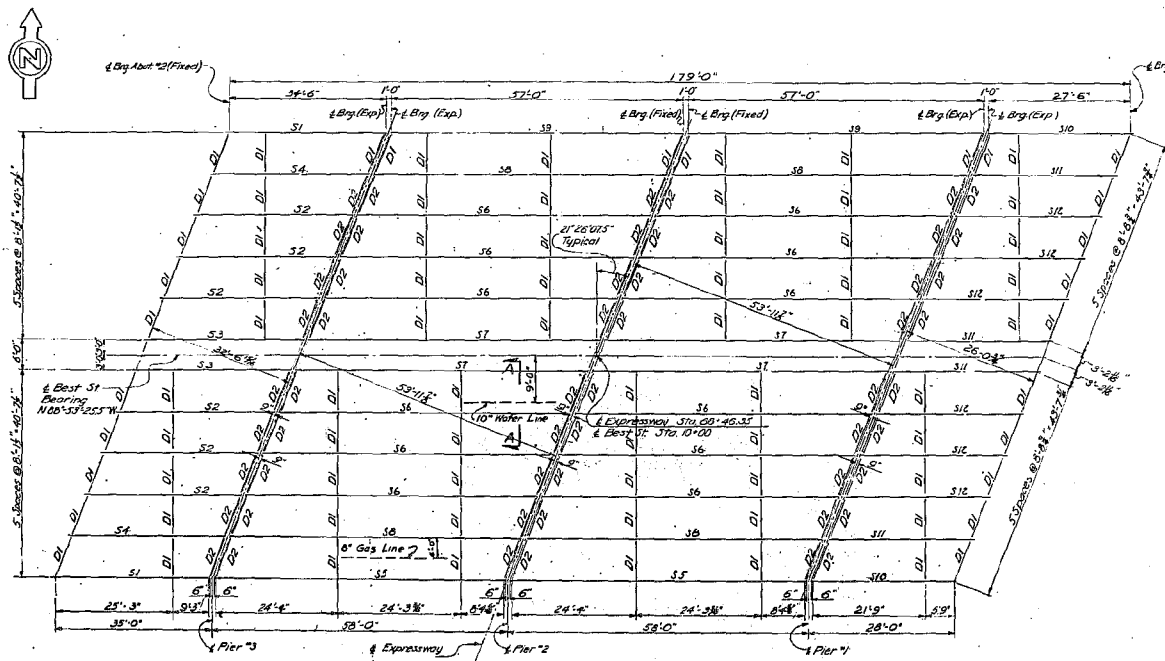
DE LOUW, CATHAR & BRILL ENGINEERS - ARCHITECTS	DRAWN J.C.
303 E. 44th ST., NEW YORK 17, N. Y.	CHECKED V.C.
	TRACED C.B.



F.A.C. 29-14

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-371(7)		158	178

CONTRACT II

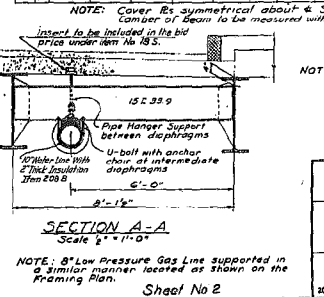
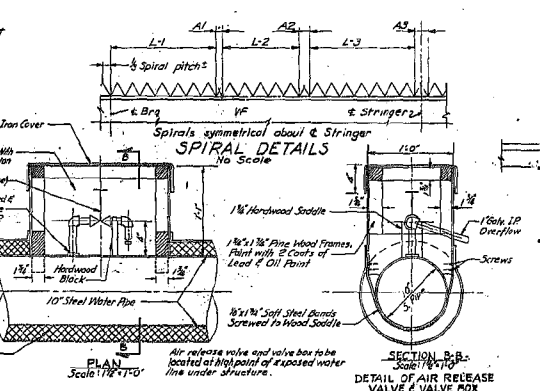
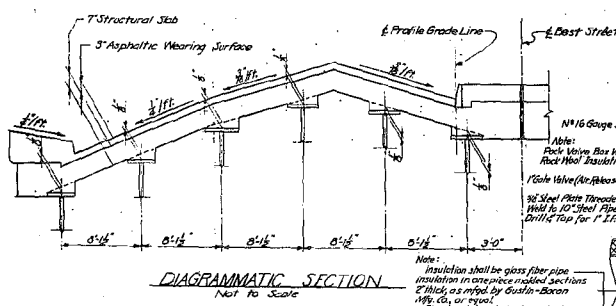


NOTE: Stringer Schedule D1: 15' 33.9" D2: 15' 36"

NOTE: Stringers shall be filed forward to use pipes after the bearings have been set and aligned to their proper positions on the bridge seats.

ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL AMOUNT	FINAL
1	Trench Guard and Bridge Edge Protection	CY	640	275	365.8
1083	Pipe Underdrain, 6" Dia	L.F.	250	26.0	362
1152	Faceted Concrete Type 2	CU Yd	177.6	1,252	189.8
185	Class I A Concrete for Structures	C.Y.	800	605	377.7
221	Class I Concrete	C.Y.	380	390	391.8
224	Coarse Screened Gravel	C.Y.	50	57	56.1
230	Bar Reinforcement for Structures	Lbs	178,972	185,450	18,456.3
284	Structural Steel Connectors	Lbs	3,638	4,000	3,949
294	Structural Steel	Lbs	338,872	345,400	347,149
314	Metal Roofing	S.F.	355	400	400.9
330	Asphalt Concrete, Type 2B	CU Yd	50	57	56.1
34	Bituminous Material	Gal	62	65	65
381	Protective Coating for Concrete	Sq Yd	268	400	400
384	1/4" Dry Stone Bedding	CY	765	790	790
385	1/2" Steel Bearing Piles (10' BP 25)	L.F.	1216	1,880	1,814
386	Splices for Steel Bearing Piles	Lbs	21	25	25
391	Leaving Equipment for Drilling Piles	EA	1	100	100
392	6"x6" Stone Curb (Bridge)	L.F.	652	790	693.2
404	Gravel, Slayer Stone, 2 1/2"	C.Y.	183	185	185.4
301B	Furnish & Install 2" Galvanized Steel Conduit	L.F.	549	590	590
303B	Furnish & Install 2" Type B (30" Mount. Hgt)	EA	4	4	4
305	Massive Masonry	Lbs	280	290	290.2
313	1/2" Mortar	CU Yd	18	18	18
313	Surface Dosing with Fine Aggregate	S.Y.	1487	1,510	1,513.3

STRINGER	BOTTOM COV.	SECTION I	SECTION L-3	SECTION L-5	SECTION L-7	SECTION L-9	SECTION L-11	SECTION L-13	SECTION L-15	SECTION L-17	SECTION L-19	SECTION L-21	SECTION L-23	SECTION L-25	SECTION L-27	SECTION L-29	SECTION L-31	SECTION L-33	SECTION L-35	SECTION L-37	SECTION L-39	SECTION L-41	SECTION L-43	SECTION L-45	SECTION L-47	SECTION L-49	SECTION L-51	SECTION L-53	SECTION L-55	SECTION L-57	SECTION L-59	SECTION L-61	SECTION L-63	SECTION L-65	SECTION L-67	SECTION L-69	SECTION L-71	SECTION L-73	SECTION L-75	SECTION L-77	SECTION L-79	SECTION L-81	SECTION L-83	SECTION L-85	SECTION L-87	SECTION L-89	SECTION L-91	SECTION L-93	SECTION L-95	SECTION L-97	SECTION L-99	SECTION L-101	SECTION L-103	SECTION L-105	SECTION L-107	SECTION L-109	SECTION L-111	SECTION L-113	SECTION L-115	SECTION L-117	SECTION L-119	SECTION L-121	SECTION L-123	SECTION L-125	SECTION L-127	SECTION L-129	SECTION L-131	SECTION L-133	SECTION L-135	SECTION L-137	SECTION L-139	SECTION L-141	SECTION L-143	SECTION L-145	SECTION L-147	SECTION L-149	SECTION L-151	SECTION L-153	SECTION L-155	SECTION L-157	SECTION L-159	SECTION L-161	SECTION L-163	SECTION L-165	SECTION L-167	SECTION L-169	SECTION L-171	SECTION L-173	SECTION L-175	SECTION L-177	SECTION L-179	SECTION L-181	SECTION L-183	SECTION L-185	SECTION L-187	SECTION L-189	SECTION L-191	SECTION L-193	SECTION L-195	SECTION L-197	SECTION L-199	SECTION L-201	SECTION L-203	SECTION L-205	SECTION L-207	SECTION L-209	SECTION L-211	SECTION L-213	SECTION L-215	SECTION L-217	SECTION L-219	SECTION L-221	SECTION L-223	SECTION L-225	SECTION L-227	SECTION L-229	SECTION L-231	SECTION L-233	SECTION L-235	SECTION L-237	SECTION L-239	SECTION L-241	SECTION L-243	SECTION L-245	SECTION L-247	SECTION L-249	SECTION L-251	SECTION L-253	SECTION L-255	SECTION L-257	SECTION L-259	SECTION L-261	SECTION L-263	SECTION L-265	SECTION L-267	SECTION L-269	SECTION L-271	SECTION L-273	SECTION L-275	SECTION L-277	SECTION L-279	SECTION L-281	SECTION L-283	SECTION L-285	SECTION L-287	SECTION L-289	SECTION L-291	SECTION L-293	SECTION L-295	SECTION L-297	SECTION L-299	SECTION L-301	SECTION L-303	SECTION L-305	SECTION L-307	SECTION L-309	SECTION L-311	SECTION L-313	SECTION L-315	SECTION L-317	SECTION L-319	SECTION L-321	SECTION L-323	SECTION L-325	SECTION L-327	SECTION L-329	SECTION L-331	SECTION L-333	SECTION L-335	SECTION L-337	SECTION L-339	SECTION L-341	SECTION L-343	SECTION L-345	SECTION L-347	SECTION L-349	SECTION L-351	SECTION L-353	SECTION L-355	SECTION L-357	SECTION L-359	SECTION L-361	SECTION L-363	SECTION L-365	SECTION L-367	SECTION L-369	SECTION L-371	SECTION L-373	SECTION L-375	SECTION L-377	SECTION L-379	SECTION L-381	SECTION L-383	SECTION L-385	SECTION L-387	SECTION L-389	SECTION L-391	SECTION L-393	SECTION L-395	SECTION L-397	SECTION L-399	SECTION L-401	SECTION L-403	SECTION L-405	SECTION L-407	SECTION L-409	SECTION L-411	SECTION L-413	SECTION L-415	SECTION L-417	SECTION L-419	SECTION L-421	SECTION L-423	SECTION L-425	SECTION L-427	SECTION L-429	SECTION L-431	SECTION L-433	SECTION L-435	SECTION L-437	SECTION L-439	SECTION L-441	SECTION L-443	SECTION L-445	SECTION L-447	SECTION L-449	SECTION L-451	SECTION L-453	SECTION L-455	SECTION L-457	SECTION L-459	SECTION L-461	SECTION L-463	SECTION L-465	SECTION L-467	SECTION L-469	SECTION L-471	SECTION L-473	SECTION L-475	SECTION L-477	SECTION L-479	SECTION L-481	SECTION L-483	SECTION L-485	SECTION L-487	SECTION L-489	SECTION L-491	SECTION L-493	SECTION L-495	SECTION L-497	SECTION L-499	SECTION L-501	SECTION L-503	SECTION L-505	SECTION L-507	SECTION L-509	SECTION L-511	SECTION L-513	SECTION L-515	SECTION L-517	SECTION L-519	SECTION L-521	SECTION L-523	SECTION L-525	SECTION L-527	SECTION L-529	SECTION L-531	SECTION L-533	SECTION L-535	SECTION L-537	SECTION L-539	SECTION L-541	SECTION L-543	SECTION L-545	SECTION L-547	SECTION L-549	SECTION L-551	SECTION L-553	SECTION L-555	SECTION L-557	SECTION L-559	SECTION L-561	SECTION L-563	SECTION L-565	SECTION L-567	SECTION L-569	SECTION L-571	SECTION L-573	SECTION L-575	SECTION L-577	SECTION L-579	SECTION L-581	SECTION L-583	SECTION L-585	SECTION L-587	SECTION L-589	SECTION L-591	SECTION L-593	SECTION L-595	SECTION L-597	SECTION L-599	SECTION L-601	SECTION L-603	SECTION L-605	SECTION L-607	SECTION L-609	SECTION L-611	SECTION L-613	SECTION L-615	SECTION L-617	SECTION L-619	SECTION L-621	SECTION L-623	SECTION L-625	SECTION L-627	SECTION L-629	SECTION L-631	SECTION L-633	SECTION L-635	SECTION L-637	SECTION L-639	SECTION L-641	SECTION L-643	SECTION L-645	SECTION L-647	SECTION L-649	SECTION L-651	SECTION L-653	SECTION L-655	SECTION L-657	SECTION L-659	SECTION L-661	SECTION L-663	SECTION L-665	SECTION L-667	SECTION L-669	SECTION L-671	SECTION L-673	SECTION L-675	SECTION L-677	SECTION L-679	SECTION L-681	SECTION L-683	SECTION L-685	SECTION L-687	SECTION L-689	SECTION L-691	SECTION L-693	SECTION L-695	SECTION L-697	SECTION L-699	SECTION L-701	SECTION L-703	SECTION L-705	SECTION L-707	SECTION L-709	SECTION L-711	SECTION L-713	SECTION L-715	SECTION L-717	SECTION L-719	SECTION L-721	SECTION L-723	SECTION L-725	SECTION L-727	SECTION L-729	SECTION L-731	SECTION L-733	SECTION L-735	SECTION L-737	SECTION L-739	SECTION L-741	SECTION L-743	SECTION L-745	SECTION L-747	SECTION L-749	SECTION L-751	SECTION L-753	SECTION L-755	SECTION L-757	SECTION L-759	SECTION L-761	SECTION L-763	SECTION L-765	SECTION L-767	SECTION L-769	SECTION L-771	SECTION L-773	SECTION L-775	SECTION L-777	SECTION L-779	SECTION L-781	SECTION L-783	SECTION L-785	SECTION L-787	SECTION L-789	SECTION L-791	SECTION L-793	SECTION L-795	SECTION L-797	SECTION L-799	SECTION L-801	SECTION L-803	SECTION L-805	SECTION L-807	SECTION L-809	SECTION L-811	SECTION L-813	SECTION L-815	SECTION L-817	SECTION L-819	SECTION L-821	SECTION L-823	SECTION L-825	SECTION L-827	SECTION L-829	SECTION L-831	SECTION L-833	SECTION L-835	SECTION L-837	SECTION L-839	SECTION L-841	SECTION L-843	SECTION L-845	SECTION L-847	SECTION L-849	SECTION L-851	SECTION L-853	SECTION L-855	SECTION L-857	SECTION L-859	SECTION L-861	SECTION L-863	SECTION L-865	SECTION L-867	SECTION L-869	SECTION L-871	SECTION L-873	SECTION L-875	SECTION L-877	SECTION L-879	SECTION L-881	SECTION L-883	SECTION L-885	SECTION L-887	SECTION L-889	SECTION L-891	SECTION L-893	SECTION L-895	SECTION L-897	SECTION L-899	SECTION L-901	SECTION L-903	SECTION L-905	SECTION L-907	SECTION L-909	SECTION L-911	SECTION L-913	SECTION L-915	SECTION L-917	SECTION L-919	SECTION L-921	SECTION L-923	SECTION L-925	SECTION L-927	SECTION L-929	SECTION L-931	SECTION L-933	SECTION L-935	SECTION L-937	SECTION L-939	SECTION L-941	SECTION L-943	SECTION L-945	SECTION L-947	SECTION L-949	SECTION L-951	SECTION L-953	SECTION L-955	SECTION L-957	SECTION L-959	SECTION L-961	SECTION L-963	SECTION L-965	SECTION L-967	SECTION L-969	SECTION L-971	SECTION L-973	SECTION L-975	SECTION L-977	SECTION L-979	SECTION L-981	SECTION L-983	SECTION L-985	SECTION L-987	SECTION L-989	SECTION L-991	SECTION L-993	SECTION L-995	SECTION L-997	SECTION L-999
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REVISION TO QUANTITIES TABLE

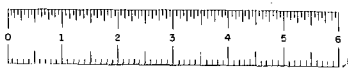
NO.	DESCRIPTION	AMOUNT	DATE
1	Best Street Over Expressway Framing Plan	368	
2		274	
3		65	

BEST STREET OVER EXPRESSWAY FRAMING PLAN
Scale: 1/8" = 1'-0"

STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL
KENSINGTON EXPRESSWAY, SEC. 1

DELEW, CATHY & BRILL ENGINEERS - ARCHITECTS
301 E. 40th St. NEW YORK 17, N.Y.

DATE: 12/1/54
SHEET: 158 OF 178
PROJECT: KENSINGTON EXPRESSWAY - SEC. NO. 1

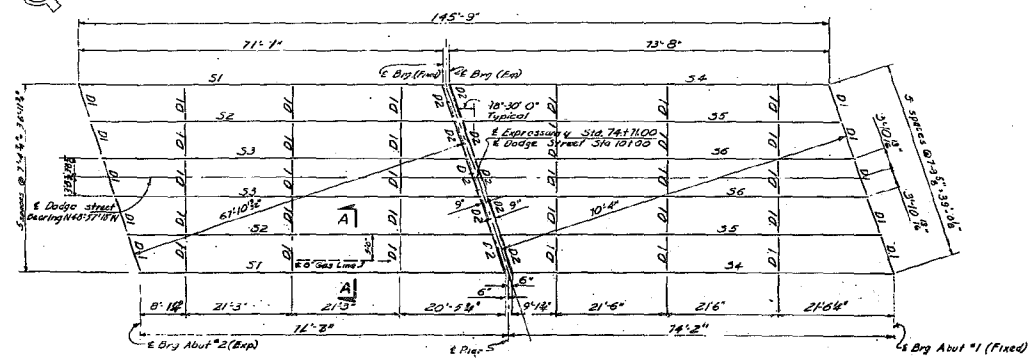


F.A.C. 58-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-311(1)	171	178	

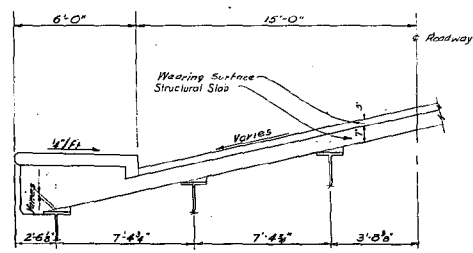
KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II



FRAMING PLAN
Scale 3/4" = 1'-0"

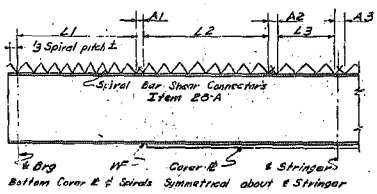
Diaphragm Schedule
D1 15 C 33.0
D2 16 WF 36



DIAGRAMMATIC SECTION
Not to Scale

STRINGER	M.K. NO.	SIZE	BOTTOM COL. & BRG.		SPIRAL SHEAR CONNECTORS			DIMENSION			CAMBER			
			SIZE	LENGTH	SECTION L-1 LENGTH FITCH	SECTION L-2 LENGTH FITCH	SECTION L-3 LENGTH FITCH	A-1	A-2	A-3		DEAD LOAD		
S1	2	36WF80	21'-7"	18'-4"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
S2	2	36WF80	21'-7"	18'-4"	5'-5"	9'-0"	4 1/2"	10'-0"	6"	15'-0"	9"	3"	4"	1 1/2"
S3	2	36WF80	21'-7"	18'-4"	5'-5"	10'-0"	5"	10'-0"	5"	14'-8"	0"	3 1/2"	4 1/2"	1 1/2"
S4	2	36WF80	21'-7"	18'-4"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
S5	2	36WF80	21'-7"	18'-4"	5'-5"	10'-0"	5"	10'-0"	5"	12'-0"	9"	3"	4"	1 1/2"
S6	2	36WF80	21'-7"	18'-4"	5'-5"	10'-0"	5"	10'-0"	5"	14'-8"	0"	3"	4"	1 1/2"

NOTE: Number of beam to be measured with beam lying on its side.

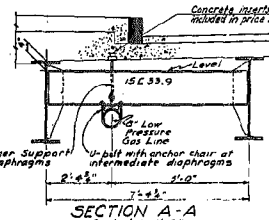


STRINGER DETAILS
Not to Scale

NOTE: Field welding of spiral reinforcement will not be permitted.

ITEM No.	DESCRIPTION	UNIT	TOTAL NEAR	TOTAL ADJUSTED	FINAL
5	Trench, Culvert and Bridge Excavation	C.Y.	692	790	466
10R1	Sewer Pipe (14" Dia.) 6' Dia.	L.F.	25	27	0
10R2	Pipe Underdrain 6" Dia.	L.F.	214	230	212
15-2	Portland Cement, Type 2	Bbl	1353	1500	1223
18	Class I Concrete for Structures	C.Y.	289	358	305
20 S	Class I Concrete	C.Y.	171	152	169
24A	Bagged Screened Gravel	C.Y.	116	124	86
24B	Bar Reinforcement for Structures	Lb.	69714	102,300	100,335
28A	Spiral Bar Shear Connectors	Lb.	2586	2,630	2,420
28A	Structural Steel	Lb.	1,90280	176,600	175,358
27A	Metal Parting	Sq. Ft.	295	300	278
32 2X	Asphalt Concrete, Type 9B	Ton	85	90	42
61	Bituminous Material	Sq. Ft.	259	250	25
66	Protective Coating for Concrete	Sq. Ft.	91	82	51
13A	Cast Iron Pipe 6" Diam.	S.F.	2768	2,940	210
65T	Temporary Timber Sheet Piling	L.F.	302	320	302
64 10	12" Stone Curbs (Bridge)	Sq. Yd.	450	465	1106
102A	Gravel, Size or Stone Fill	C.Y.	150	140	125
301 S	Vertical and Inclined 2" Galvanized Steel Cansul	L.F.	160	140	2
303 S	Horizontal Light Steel Cansul, Type A (2" Mount NGL)	Sq. Ft.	2	2	2
581	Joint S. Slab Component	Sq. Ft.	7	9	7
573	Surface Ducting with Fine Aggregate	Sq. Ft.	504	510	503

W/ W/8 Dorex A.E.A. added.



SECTION A-A
Scale 1/4" = 1'-0"

NOTE: Distance between pipe supports shall be 12 ft. ±. For details of pipe supports see Sheet No. 17.

REVISION TO QUANTITY TABLE

DODGE STREET OVER EXPRESSWAY FRAMING PLAN

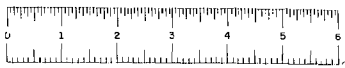
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL

KENSINGTON EXPRESSWAY, SEC. 1

DE LEUN, CATHER & BRILL
ENGINEERS - ARCHITECTS

303 E. 44th ST. NEW YORK 17, N.Y.

DRAWN: H.S.M.
CHECKED: F.C.
TRACED: C.B.



F.A.C. 59-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(II)	181	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.S.H.C. 1953 modified - loading 14.20'-315'-4".
 MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, precast, bituminous joint material, asphalt sheet piling and 1/2" asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint sealing compound shall be paid for under Item 3511.
 Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the top of footings to the bottom of pavement.
 When the concrete is cured, finished and (if ordered) rubbed, and the surface is clean and dry, the contractor shall apply a water-soluble silicone solution to all exposed surfaces except the underside of slab.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer Bridges.

Field connections shall be made with 3" high strength bolts or rivets. Holes and bolts may be omitted and Weld substituted if Contractor so elects.
 Step joints: Red lead and oil flint field coat to be cast in grey paint. Second field coat to be grey green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of wearing surface of roadway and side walk. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the subcontracting notes which briefly outline the anticipated structure conditions at the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge seats be poured 1/2" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dorex A.E.A. Air-Entraining Agent added.
 Dorex A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dorex A.E.A. dispenser. The amount of Dorex A.E.A. to be added shall be of such a quantity as to insure a controlled air-entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4.5% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dorex A.E.A. and all other equipment necessary to control the air-entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pier concrete shall be Item 185. Concrete in Abutment Wingwalls including footings shall be Item 185.
 All concrete in pier footings and pedestals underfootings shall be Item 205.
 Maximum payment limits for excavation, Item 5, in rock shall be the real lines of the footings on rock. See note No. 23 sheet No. 132.

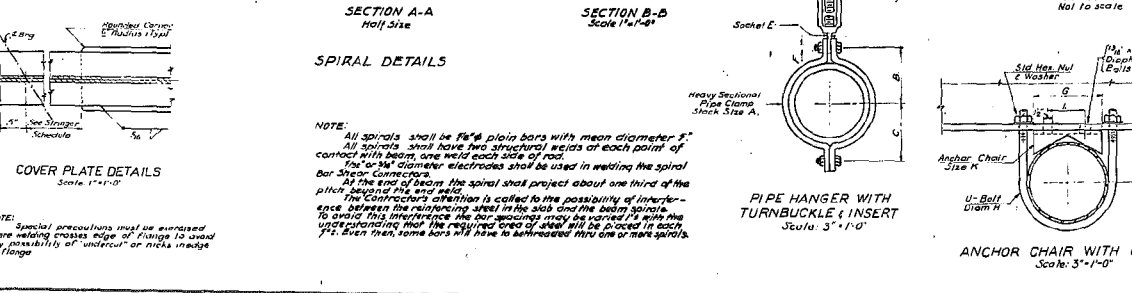
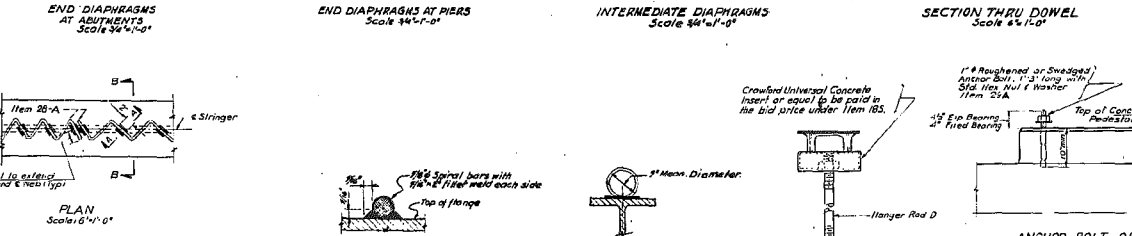
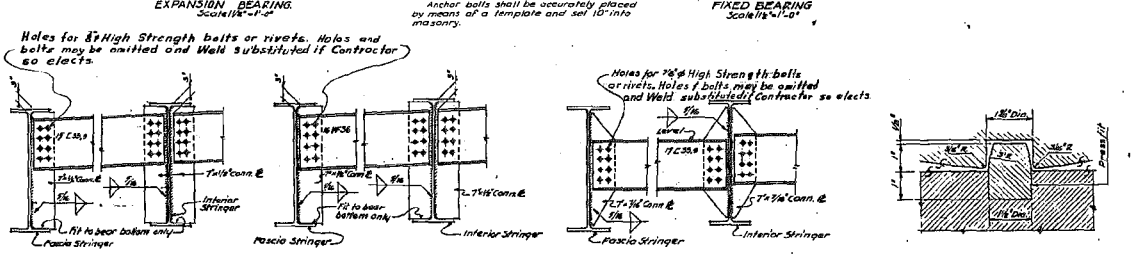
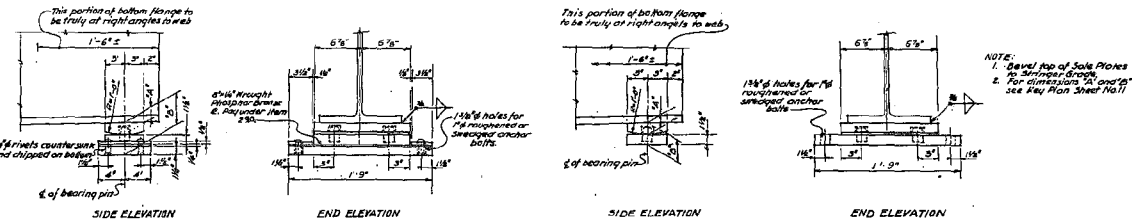
A retarding densifier shall be used in Item 85 and 205.
 Size of pipe sleeves and size and type of hangers shall be verified with the Engineers Gas Corp. or Division of Water of the City of Buffalo before fabrication of diaphragms. See Sheet No. 118 for additional notes.

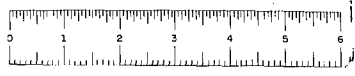
SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	12"	7"	6"	3"	1"	3"	8"	6"	1/2"	3/4"	3/4"

NO AS BUILT REVISIONS

DODGE STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES		DRAWN
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS CITY OF BUFFALO ARTERIAL		AL
KENSINGTON EXPRESSWAY, SEC. 1		C.E.
DE LEUW, CATHY & BRILL	ENGINEERS - ARCHITECTS	CH.
802 E. 44th ST., NEW YORK 17, N.Y., TRACED		

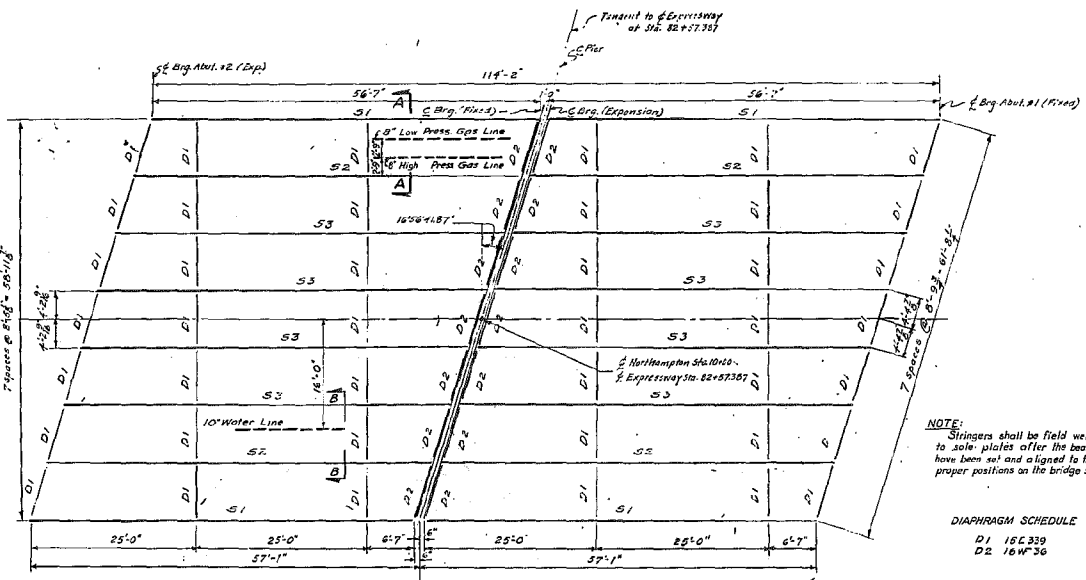
Sheet No 12





FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	BIBET NO.	TOTAL SHEETS
U-37107	N.Y.		1965	186	178

CONTRACT II



FRAMING PLAN
Scale: 1/8" = 1'-0"

NOTE:
Stringers shall be field welded to sole plates after the bearings have been set and aligned to their proper positions on the bridge seats.

DIAPHRAGM SCHEDULE

- D1 15C339
- D2 16WF36

** Splices ordered are for either size of piles.

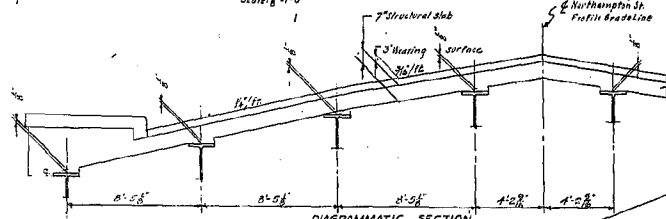
ITEM	DESCRIPTION	UNIT	TOTAL		FINISH
			NEAR	AWAY	
1	Trench, Curb and Bridge Excavation	CY	305	23.0	280
179A	Sewer Pipe (4" Dia.) 8' Dia.	LF	75	15	90
110B1	Pipe Underdrain, 6" Dia.	LF	180	18.5	171.5
110C3	Drainage Channel, Type 2	RD	1465	18.10	1483.10
183	Class A Concrete for Structures	CY	350	75.8	425.8
202	Class I Concrete	CY	998	72.0	1070
214	Approved Gravel	CY	112	11.2	123.2
224A	Bar Reinforcement for Structures	LB	92,779	9,520	102,300
224	Spiral Bar Shear Connectors	LB	8,881	2,780	11,661
224	Structural Steel	LB	186,000	171,500	357,500
37A	Meat Rolling	LF	221	2.35	223.35
37B1	Handed Concrete, Type 2B	CU	107	115	222
37	Bituminous Material	CU	125	190	315
381	Protective Coating for Concrete	CU	113	120	233
451	Steel Bearing Piles (4" Dia.)	LF	2,085	2,720	4,805
452	Steel Bearing Piles (2" Dia.)	LF	480	200	680
45A	Splices for Steel Bearing Piles	EA	35	37	72
47	Fastening Equipment for Drivng Piles	LS	166	190	356
410	8" Stone Curb, 1' Radius	LF	243	2.25	245.25
112A	Gravel, Slope or Slope Fill	CY	368	370	738
134	Soft Iron Pipe (6" dia.)	LF	1	1	2
201B	Fence and Install 2" Reinforced Steel Conduit	LF	360	380	740
304	Finish Light Standoff, Type A (18" Mount, High)	EA	72	72	144
305	Miscellaneous Metals	LB	268	270	538
331	Joint Sealing Compound	CU	9	9	18
313	Surface Driveline with Pipe Reinforce	S.Y.	654	690	1344
3207	Temporary Steel Sheet Piling	S.Y.	1800	1572	3372

STRINGER SCHEDULE

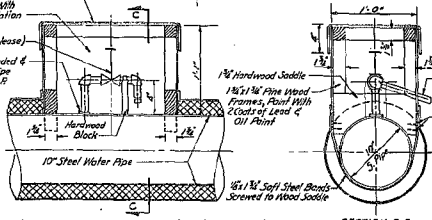
STRINGER	Bot Cover @	SPIRAL SHEAR CONNECTORS						CAMBER							
		Section L-1	Section L-2	Section L-3	CAMBER										
151	4	33WF130	16'-0"	42'-0"	9'-7"	5'-2"	10'-0"	0'	4'-2"	7'-0"	16'	5'	7'-0"	1'	2'-0"
152	4	33WF130	16'-0"	42'-0"	10'-0"	4'	10'-0"	0'	7'	7'-0"	21'	5'	7'	1'	2'-0"
153	8	33WF130	18'-0"	42'-0"	10'-3"	3'-2"	10'-0"	2'-2"	7'-0"	5'	4'	16'	17'	1'-0"	2'-0"

Note: Camber of beam to be measured with beam lying on its side.

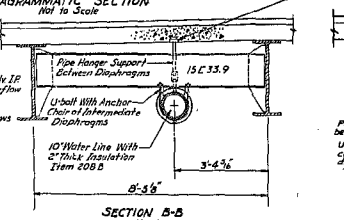
Note:
Insulation shall be glass fiber pipe insulation in one piece molded sections 2" thick, as req'd. by Gustin-Brown Mfg. Co. or equal.
Pipe insulation to be furnished with vapor barrier jacket of tough Kraft roll laminate.
Insulated pipe insulation shall be covered with Aluminum weather-proof jacketing as req'd. by Childers Mfg. Co. or equal.



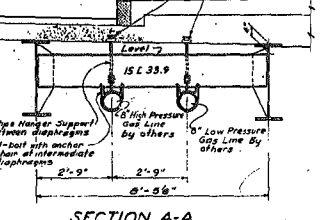
DIAGRAMMATIC SECTION
Not to Scale



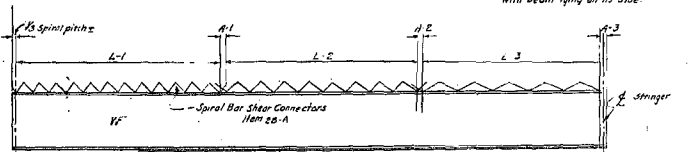
SECTION C-C
Scale 1/2" = 1'-0"
DETAIL OF AIR RELEASE VALVE & VALVE BOX



SECTION B-B
Scale 2" = 1'-0"
(Intermediate Diaphragms Only)



SECTION A-A
Scale 1/2" = 1'-0"
(Intermediate Diaphragms Only)



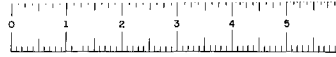
STRINGER DETAILS
Not to Scale

Bottom Cover Plate and Spirals symmetrical about 4 stringers.

NOTE:
Field welding of spiral reinforcement will not be permitted.

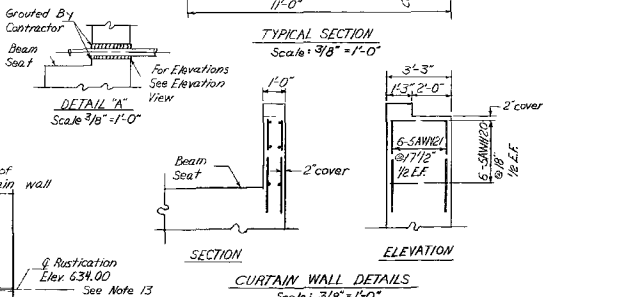
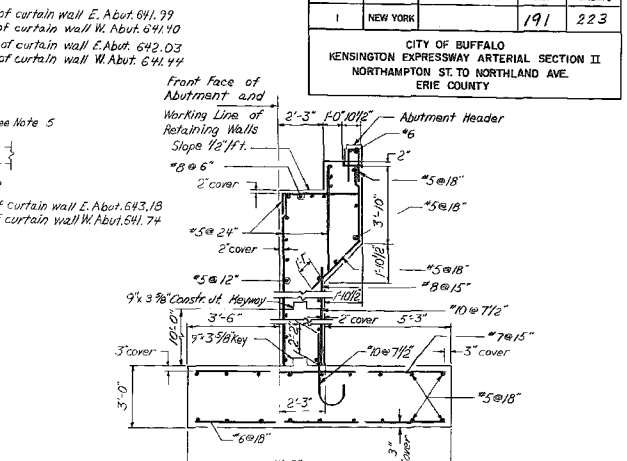
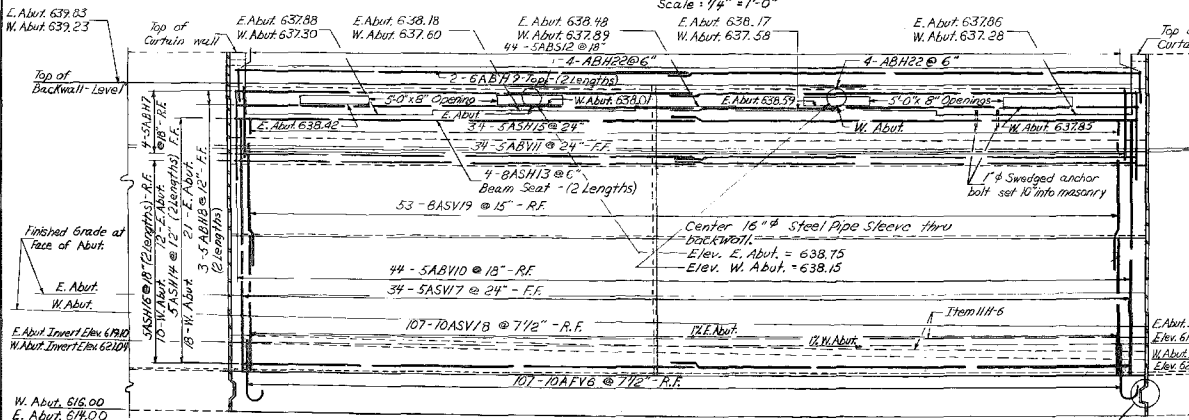
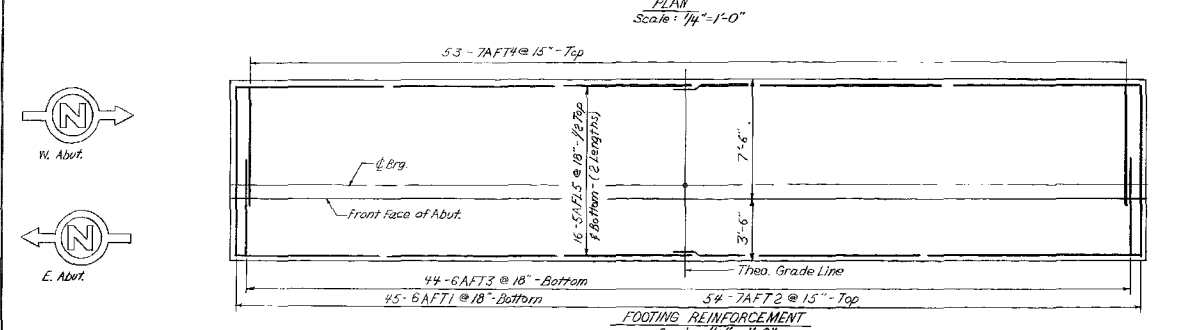
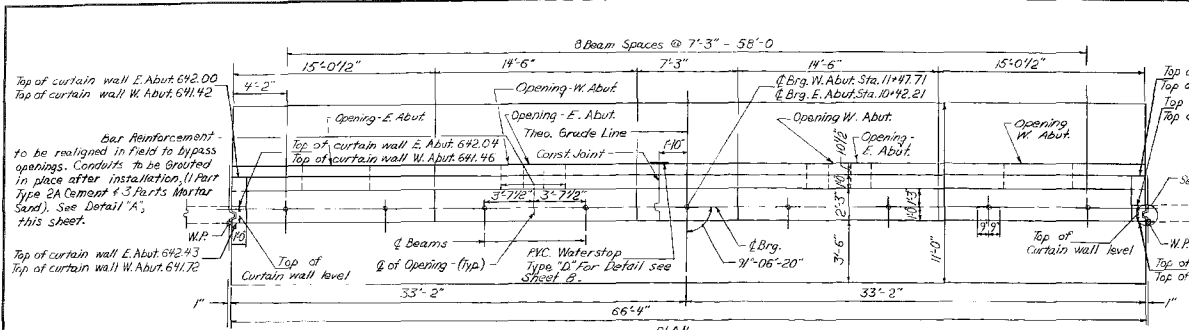
FINAL QUANTITY REVISION			
NORTHAMPTON STREET OVER EXPRESSWAY FRAMING PLAN			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHY & BELL	DRAWN	K.E.C.	
ENGINEERS - ARCHITECTS	CHECKED	R.G.C.	
802 E. 42nd St.	NEW YORK 17, N.Y.	TRACER	28

Sheet No. 2



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		191	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures. Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the Wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Vertical Surfaces, Bridge Seats, including the area under the Bearings, Exposed Vertical Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Trowel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Pay Lines at Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Cantilet Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the foundation pressure does not exceed 10 tons per square foot.

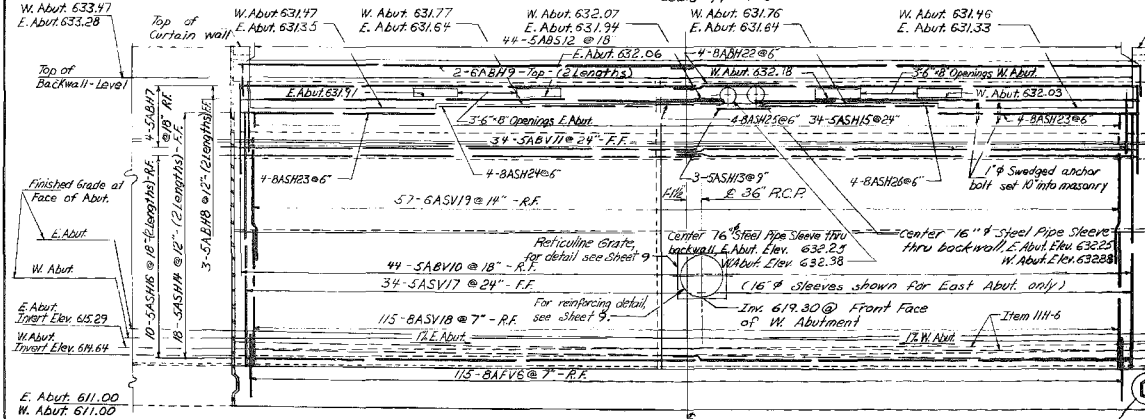
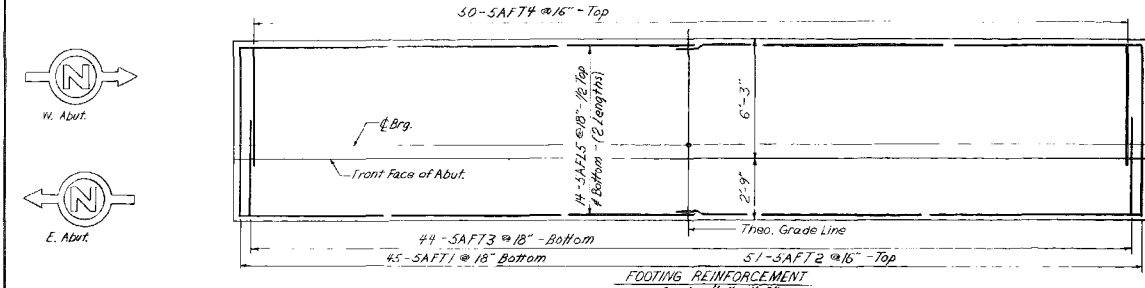
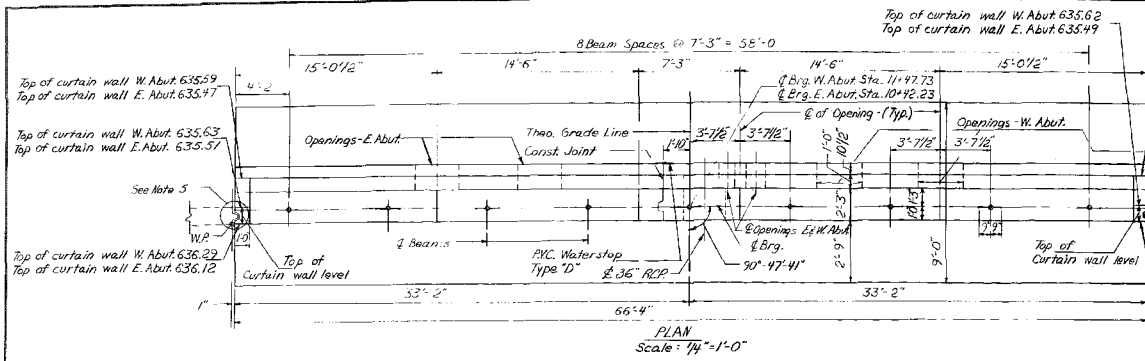
Date: JULY 14, 1967
In Charge Of: H. G. COLES
Designed By: W. D. SWECKER
Traced By: J. F. MEYER
Checked By: W. D. SWECKER

BRIDGE NO. 1

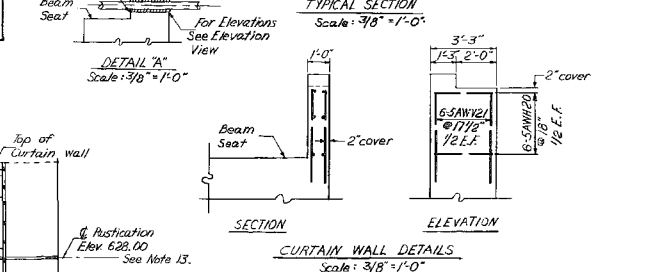
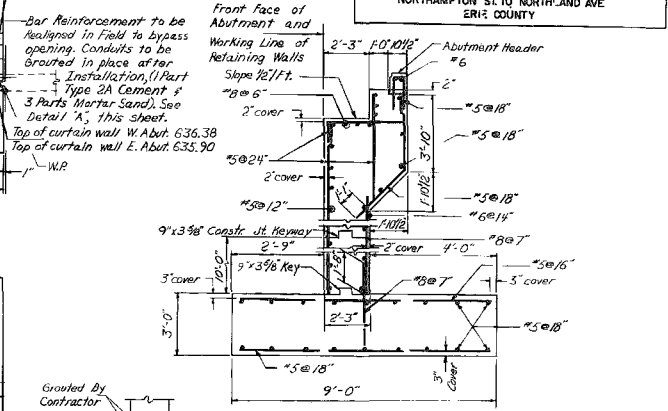
EAST UTICA STREET
OVER KENSINGTON EXPRESSWAY
ABUTMENT DETAILS

PREPARED AND RECOMMENDED
By: *W. D. Swecker* N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-67
McFARLAND-JOHNSON ENGINEERS

BRIDGE SHEET 3 OF 10



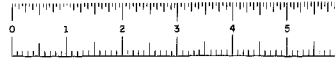
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		201	223
CITY OF BUFFALO KENSINGTON EXPRESSWAY ARTERIAL SECTION II NORTHAMPTON ST. TO NORTH AND AVE ERIE COUNTY				



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures.
 - Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Reinforcing Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Travel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Ray Lines of Abutment see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Conduit Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the Foundation Pressure does not exceed 10 tons per square foot.

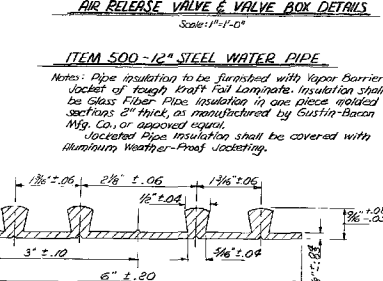
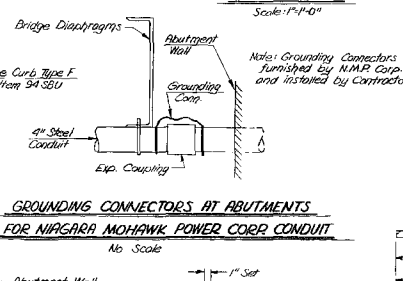
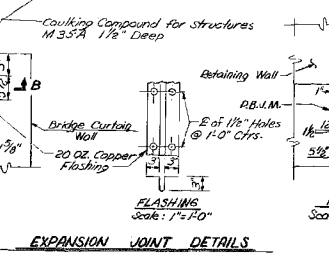
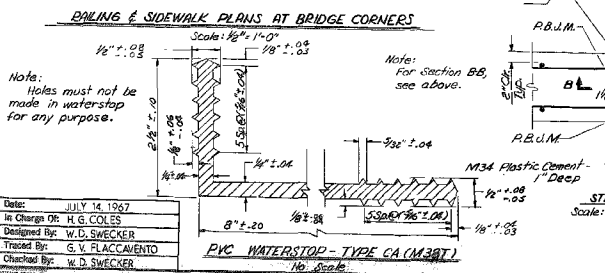
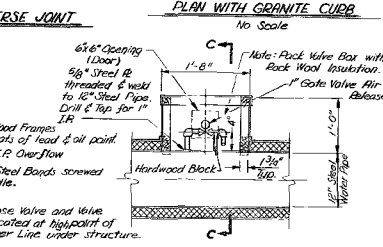
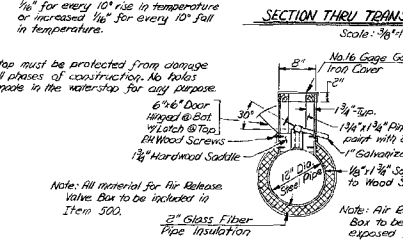
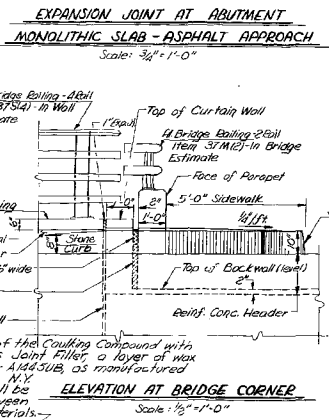
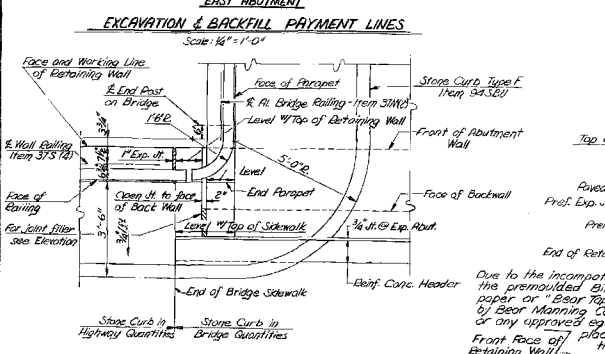
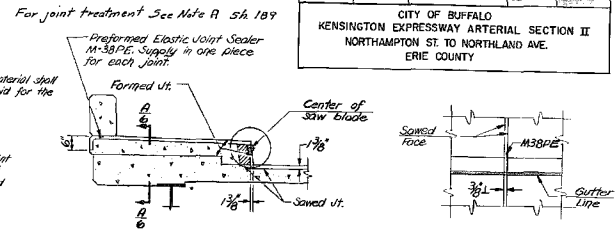
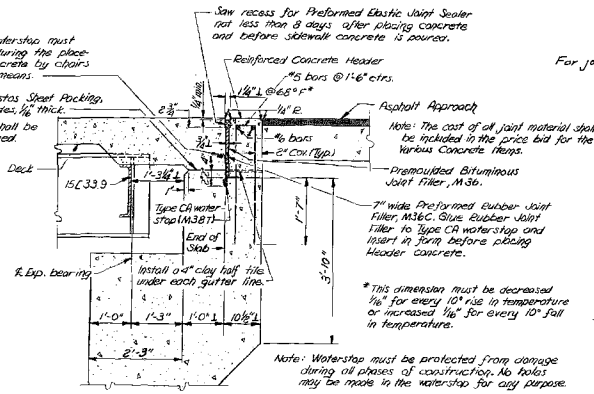
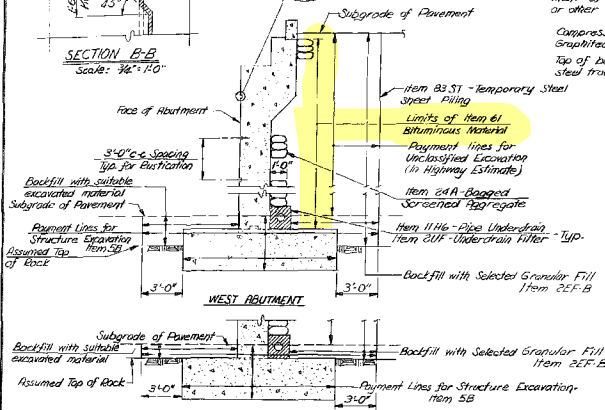
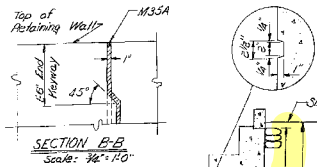
Date:	JULY 14, 1967
In Charge Of:	H. G. COLES
Designed By:	W. D. SWICKER
Traced By:	J. F. MEYER
Checked By:	W. D. SWICKER

BRIDGE NO. 2	
EAST FERRY STREET OVER KENSINGTON EXPRESSWAY ABUTMENT DETAILS	
PREPARED AND RECOMMENDED BY	N.Y.S.P.E. LIC. NO. 20182 DATE 7-23-67
MCFARLAND JOHNSON	ENGINEERS

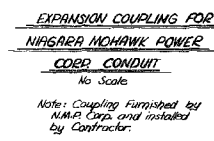
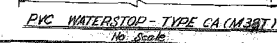


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		206	

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



Date: JULY 14, 1967
In Charge: W. G. COLLIER
Designed By: W. D. SWECKER
Traced By: G. V. FLACCAVENTO
Checked By: W. D. SWECKER



NOTE 2
Notes must not be made in waterstop for any purpose except as required for Tacking to Forms.
Tacking to forms will only be permitted in the area between the outside ribs and the edges of waterstop. Type D waterstop shall be light gray in color.

BRIDGE NO. 2	EAST FERRY STREET OVER KENSINGTON EXPRESSWAY MISCELLANEOUS DETAILS
PREPARED AND RECOMMENDED McFarland-Johnson	N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-67 ENGINEERS

ASBESTOS SURVEY REPORT

Location: BIN 1022620
Northampton Street Bridge over NY Route 33
City of Buffalo, Erie County
PIN 5812.37.101

Prepared for:
New York State Department of Transportation



Prepared By:



175 Sully's Trail, Suite 202
Corporate Crossings Office Park
Pittsford, New York 14534

August 2013

Lu Project # 9920-132

ASBESTOS SURVEY REPORT

Location: BIN 1022620
Northampton Street Bridge over NY Route 33
PIN 5812.37.101

TABLE OF CONTENTS

	<u>Page</u>
1.0 Project Summary.....	1
2.0 Site Description.....	2
3.0 Inspection Procedures	2
4.0 Results.....	3
Certification	3

Figures and Tables

Figure 1	Site Location Map
Figure 2	Asbestos Bulk Sample Location Plan
Table 1	Bulk Sample Results

Appendices

Appendix A	Asbestos Survey Fact Sheet
Appendix B	Licenses and Certifications
Appendix C	Laboratory Analysis Report and Chain of Custody

1.0 Project Summary

In accordance with conditions of Term Agreement D030924, Lu Engineers conducted an asbestos sampling survey on the Northampton Street Bridge over NY Route 33 (BIN 1022620) in the City of Buffalo, Erie County, New York. Based on information obtained using the procedures described in Section 3.0 Inspection Procedures, the following summarizes the results of this investigation.

BIN 1022620 – Northampton Street Bridge over NY Route 33

Confirmed Asbestos-Containing Materials (ACMs)

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

Type of Material	Typical Location	Estimated Amount	Friability	Condition
Black Pipe Coating	Suspended Below Bridge Deck (South Side)	120 LF	Non-friable	Good
Black Joint Sealer	In Vertical Retaining Wall Joints	80 LF	Non-friable	Fair

LF – Linear Foot

Inaccessible/Assumed ACMs

Record plans dated March 1963 indicate “Compressed Asbestos Sheet Packing” located between the deck slab and the top of backwall. This material was not visible during the August 22, 2013 site inspection.

Record plans dated March 1963 indicate steel conduits buried within the concrete sidewalk on both sides of the bridge. Suspect asbestos caulking may be located around the expansion sleeves of the conduits buried in the sidewalks. None of these materials were visible during the August 22, 2013 site inspection.

Record plans dated March 1963 indicate 10-inch and 8-inch Protection Sleeves around 8-inch and 6-inch High Pressure Gas Lines suspended from the bridge deck. Suspect asbestos pipe wrap may be located on the gas mains, beneath the protection sleeves. This material was not visible during the August 22, 2013 site inspection.

No other inaccessible/assumed ACMs were identified.

2.0 Site Description

The site is located in the City of Buffalo, Erie County, New York. For the purpose of this report, the site consists of BIN 1022620 – Northampton Street Bridge over NY Route 33. The site is indicated on the attached Figure 1 – Site Location Map.

3.0 Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACMs were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM, excluding the paint system. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground and/or by use of a ladder from below. The approximate location of bulk samples is indicated on Figure 2, Asbestos Bulk Sample Location Plan.
- D. Samples were submitted for analysis. Preliminary polarized light microscopy (PLM) analyses of non-friable, organically bound (NOB) materials were performed by Paradigm Environmental Services, Inc., a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy (TEM) analyses of NOB materials, if necessary, were performed by Paradigm Environmental Services, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by Lu Engineers to determine the presence of underground utilities on or in the immediate vicinity of the Site. The site inspection identified that the bridge was painted in September 2006 under Project D259781, therefore the paint system was not suspect for asbestos.

4.0 Results

BIN 1022620 – Northampton Street Bridge over NY Route 33

Confirmed Asbestos-Containing Materials (ACMs)

Pipe Coating

Asbestos-containing pipe coating is located in the waterline suspended along the south side of the bridge.

It is estimated that the total amount of the pipe coating is approximately 120 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing pipe coating is shown in Figure 2.

Joint Sealer

Asbestos-containing joint sealer is located in the vertical expansion joints of the retaining walls on both the east and west sides of the bridge.

It is estimated that the total amount of this joint sealer is approximately 80 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing joint sealer is shown in Figure 2.

Inaccessible/Assumed ACMs

Record plans dated March 1963 indicate “Compressed Asbestos Sheet Packing” located between the deck slab and the top of backwall. This material was not visible during the August 22, 2013 site inspection.

Record plans dated March 1963 indicate steel conduits buried within the concrete sidewalk on both sides of the bridge. Suspect asbestos caulking may be located around the expansion sleeves of the conduits buried in the sidewalks. None of these materials were visible during the August 22, 2013 site inspection.

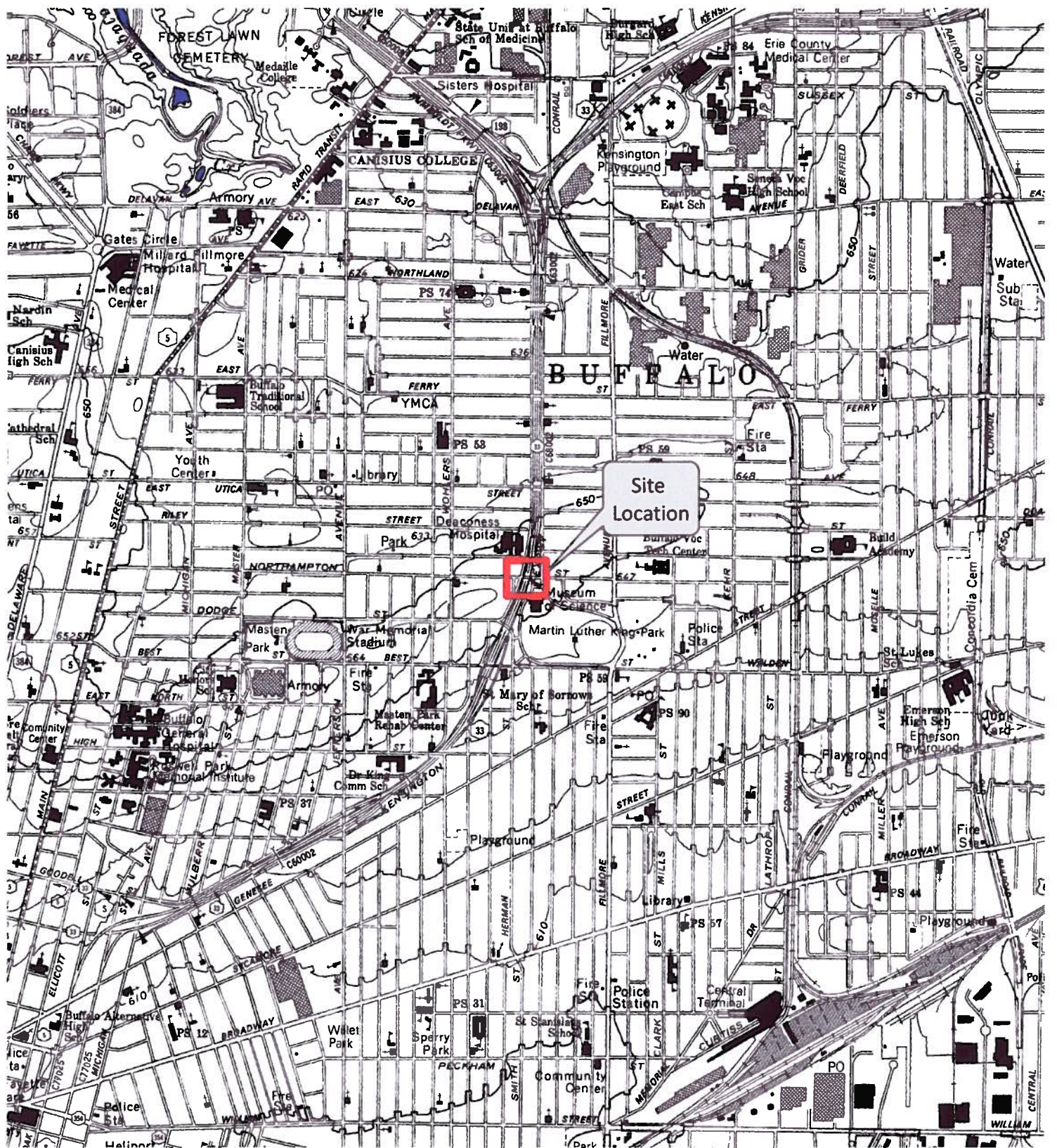
Record plans dated March 1963 indicate 10-inch and 8-inch Protection Sleeves around 8-inch and 6-inch High Pressure Gas Lines suspended from the bridge deck. Suspect asbestos pipe wrap may be located on the gas mains, beneath the protection sleeves. This material was not visible during the August 22, 2013 site inspection.

No other inaccessible/assumed ACMs were identified.

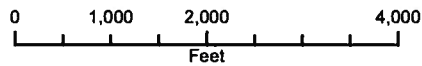
Certification

Lu Engineers certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this report.

Figures and Table



1 inch = 2,000 feet



New York Quadrangle Location

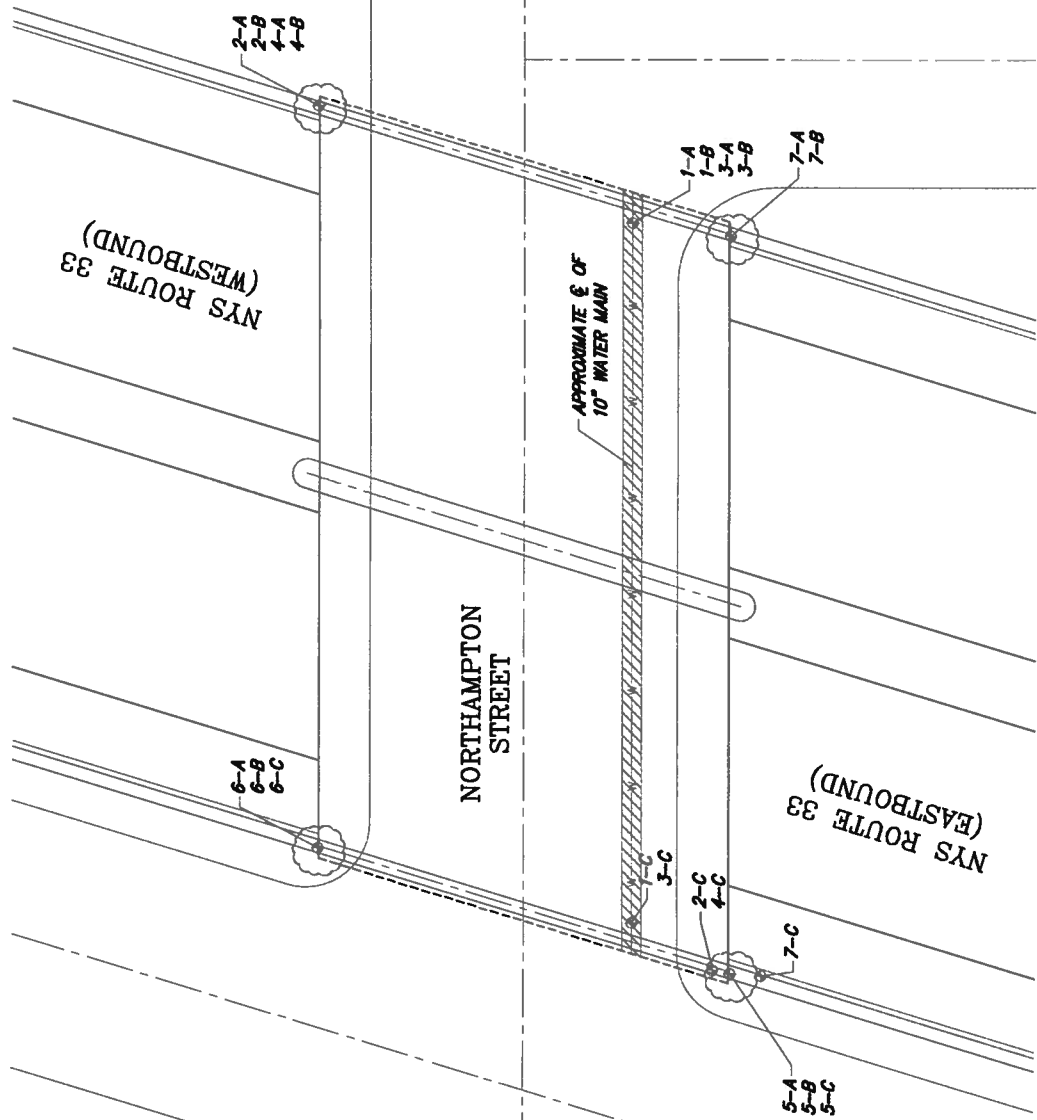


FIGURE 1
SITE LOCATION PLAN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33

BIN: 1022620 **CITY OF BUFFALO, ERIE COUNTY, NEW YORK** **PIN: 5812.37.101**

DATE: AUGUST 2013
SCALE: 1 INCH = 2000 FEET
DRAWN/CHECKED: SMK/MCS
DATA SOURCE: NYS DOT RASTER QUADRANGLES BUFFALO NE/4NW, ERIE COUNTY, NY
DOT EDITION DATE: 1978
USGS CONTOUR DATE: 1954



LEGEND

- ASBESTOS BULK SAMPLE LOCATION & SAMPLE NUMBER
- APPROXIMATE LOCATION OF ASBESTOS PIPE COATING
- APPROXIMATE LOCATION OF ASBESTOS JOINT SEALER IN VERTICAL RETAINING WALL JOINT

DATE:	AUGUST 2013
SCALE:	NTS
DRAWN BY:	JRM
BIN:	1022620
PIN:	5812.37.101
LU P.N.:	9920-132

FIGURE 2.
ASBESTOS BULK SAMPLE LOCATION PLAN
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION
 NORTHAMPTON STREET BRIDGE OVER NYS ROUTE 33
 BUFFALO | ERIE COUNTY | NEW YORK



SAMPLE RESULTS

NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33
CITY OF BUFFALO, NEW YORK

BIN 1022620

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item
1-A	East End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
1-B	East End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
1-C	West End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
2-A	Northeast Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
2-B	Northeast Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
2-C	Southwest Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
3-A	East End of Bridge on Water Main	Black Pipe Coating	1.1% Chrysotile	120 LF	210.3211
3-B	East End of Bridge on Water Main	Black Pipe Coating	Stop Positive	Refer to Sample 3-A	Refer to Sample 3-A
3-C	West End of Bridge on Water Main	Black Pipe Coating	Stop Positive	Refer to Sample 3-A	Refer to Sample 3-A
4-A	Northeast Corner of Bridge on Pedestal	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
4-B	Northeast Corner of Bridge on Back Wall	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
4-C	Southwest Corner of Bridge on Pedestal	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
5-A	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
5-B	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
5-C	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
6-A	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.

SAMPLE RESULTS

NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33
CITY OF BUFFALO, NEW YORK

BIN 1022620

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item
6-B	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.
6-C	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.
7-A	<i>Southeast Corner of Bridge in Retaining Wall Joint</i>	<i>Black Joint Sealer</i>	<i>30% Chrysotile</i>	<i>80 LF</i>	<i>210.3411</i>
7-B	<i>Southeast Corner of Bridge in Retaining Wall Joint</i>	<i>Black Joint Sealer</i>	<i>Stop Positive</i>	<i>Refer to Sample 7-A</i>	<i>Refer to Sample 7-A</i>
7-C	<i>Southwest Corner of Bridge in Retaining Wall Joint</i>	<i>Black Joint Sealer</i>	<i>Stop Positive</i>	<i>Refer to Sample 7-A</i>	<i>Refer to Sample 7-A</i>

LF – Linear Foot

N.A. – Not Applicable

APPENDIX A

Asbestos Survey Fact Sheet

Asbestos Survey Fact Sheet

Name and Address of Building/Structure:

Northampton Street Bridge over NY Route 33 (BIN 1022620)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner:

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name and Address of Owner's Agent:

Lu Engineers
175 Sully's Trail, Suite 202
Pittsford, New York 14534

Name of the Firm & Persons Conducting the Survey:

Lu Engineers
Mitchell C. Smith (NYS DOL Cert. #97-15393)

Date Survey Was Conducted:

August 22, 2013

List of Homogeneous Areas

(Items in Bold Confirmed ACM)

Grey Pipe Wrap

Orange Bearing Pad

Black Pipe Coating

Grey Masonry Coating

Black Bond Breaker

Brown Joint Filler

Black Joint Sealer

APPENDIX B

License and Certifications

New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Joseph C. Lu Engineering And Land Surveying, P.C.
Suite 202
175 Sully's Trail

Pittsford, NY 14534

FILE NUMBER: 99-0907
LICENSE NUMBER: 29286
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 01/17/2013
EXPIRATION DATE: 01/31/2014

Duly Authorized Representative – Susan Hilton

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Eileen M. Franko, Acting Director
For the Commissioner of Labor

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



MITCHELL SMITH
CLASS EXPIRES
C/EG(03/14) D/NSP(03/14)
H/PM(03/14) I/PD(03/14)



CERT# 97-15393
DMV# 992171375

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES GRN
HAIR BRO
HGT 5' 08"

IF FOUND RETURN TO:
NYSOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRUCE HOOGESTEGER
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020 Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 6010B
Lead in Paint	EPA 6010B

Sample Preparation Methods

APP. 14.2, HUD JUNE 1995
EPA 3050B

Serial No.: 48478

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

APPENDIX C

*Laboratory Analysis Report and
Chain of Custody*



PLM & TEM BULK ASBESTOS REPORT

Client: Lu Engineers
Location: NYS-DOT-PIN 5812.37.131 - BIN 1022620
 Northampton Street Over Route 33, City of Buffalo, New York
Sample Date: 8/22/2013

Job No: 9817-13
Page: 1 of 2

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
1-A	64585	East Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
1-B	64586	East Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
1-C	64587	West Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
2-A	64588	Northeast Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
2-B	64589	Northeast Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
2-C	64590	Southwest Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
3-A	64591	East Side of Bridge on Water Main	Black Pipe Coating	Chrysotile 1.1%	1.1%		Not Required	N/A	None Detected	98.9%
3-B	64592	East Side of Bridge on Water Main	Black Pipe Coating	Stop	Positive		Sample	Not	Analyzed	N/A
3-C	64593	West Side of Bridge on Water Main	Black Pipe Coating	Stop	Positive		Sample	Not	Analyzed	N/A
4-A	64594	Northeast Corner of Bridge on Pedestal	Gray Masonry Coating	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%



Lab Code 200530-0
for PLM Analysis

ELAP ID No.: 10958

∇ This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 8/24/2013

TEM Date Analyzed: 8/26/2013

Microscope: Olympus BH-2 #232953

TEM Analyst: J. Peter Donato

Analyst: T. Bush

Laboratory Results Approved By:
Asbestos Technical Director

Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

9817-13



top of 200 10f3 coc

Bulk Sample Chain of Custody

Project Name: NYSDOT - PIN 5812.37.121
Lu Project # 9920-132

Site Address: BIN 1022620
 Northampton Street over Route 33
 City of Buffalo, New York
Laboratory Name: Paradigm Environmental Services

Results to: Lu Engineers
 175 Sullys Trail, Suite 202
 Pittsford, NY 14534
Laboratory Address: 179 Lake Avenue
 Rochester, New York

Sample Type:
 NYS ELAP PLM/TEM
 PLM Only
 TEM Only

Turn Around Time:
 Immediate 12 HR
 24 HR 48 HR
 72 HR 5 Day

Comments:
 STOP POSITIVE - EXCEPT FOR PAINT!!

Email: sue-hilton@luengineers.com, msmith@luengineers.com

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
1-A	East side of bridge on water main	grey pipe wrap	64585
1-B	"	"	586
1-C	West side of bridge on water main	"	587
2-A	NE corner of bridge	bering pad	588
2-B	"	"	589
2-C	SW corner of bridge	"	590
3-A	East side of bridge on water main	black pipe coating	591
3-B	"	"	592
3-C	West side of bridge on water main	"	593
4-A	NE corner of brid on pedestal	grey masonry coating	594

Date Sampled: 8/22/2013
 Relinquished By: *[Signature]*
 Date/Time: 8/22/2013 10:30 AM

Inspector: *[Signature]*
 Received By: *[Signature]*
 Date/Time: 8/22/2013 1405



PLM & TEM BULK ASBESTOS REPORT

Client: Lu Engineers
Location: NYS-DOT-PIN 5812.37.131 - BIN 1022620
 Northampton Street Over Route 33, City of Buffalo, New York
Sample Date: 8/22/2013

Job No: 9818-13
Page: 1 of 2

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
4-B	64595	Northeast Corner of Bridge on Back Wall	Gray Masonry Coating	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
4-C	64596	Southwest Corner of Bridge on Pedestal	Gray Masonry Coating	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
5-A	64597	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
5-B	6459B	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
5-C	64599	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
6-A	64600	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 80%	20%
6-B	64601	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 80%	20%
6-C	64602	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 90%	10%
7-A	64603	Southeast Corner of Bridge in Retaining Wall Joint	Black Fibrous Joint Sealer	Chrysotile 30%	30%	✓	Not Required	N/A	None Detected	70%
7-B	64604	Southeast Corner of Bridge in Retaining Wall Joint	Black Joint Sealer	Stop	Positive	✓	Sample	Not	Analyzed	N/A



Lab Code 200530-0
for PLM Analysis

ELAP ID No.: 10958

⚠ This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 8/24/2013

TEM Date Analyzed: 8/26/2013

Microscope: Olympus BH-2 #232953

TEM Analyst: J. Peter Donato

Analyst: T. Bush

Laboratory Results Approved By:
Asbestos Technical Director

Mary Dohr

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9818-13



7083 COC

Bulk Sample Chain of Custody

Project Name: NYSDOT - PIN 5812.37.121 Lu Project # 9920-132	
Site Address: BIN 1022620 Northampton Street over Route 33 City of Buffalo, New York Laboratory Name: Paradigm Environmental Services	
Results to: Lu Engineers 175 Sullys Trail, Suite 202 Pittsford, NY 14534	Laboratory Address: 179 Lake Avenue Rochester, New York Turn Around Time <input type="checkbox"/> Immediate <input type="checkbox"/> 12 HR <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR <input type="checkbox"/> 5 Day Comments: STOP POSITIVE - EXCEPT FOR PAINT!!
Sample Type <input checked="" type="checkbox"/> NYS ELAP PLM/TEM <input type="checkbox"/> PLM Only <input type="checkbox"/> TEM Only	
Email: sue-hilton@luengineers.com , msmith@luengineers.com	

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4-B	NE corner of bridge on backway	grey masonry coating	64595
4-C	SW corner of bridge on pedestal	"	596
5-A	SW corner of bridge between deck & backwall	Bond breaker	597
5-B	"	"	598
5-C	"	"	599
6-A	NW corner of bridge between sidewalk & checkway	brown joint filler	600
6-B	"	"	601
6-C	"	"	602X
7-A	SE corner of bridge in retaining wall joint	black joint sealer	603
7-B	"	"	604

Date Sampled: 8/23/2005
 Relinquished By: *[Signature]*
 Date/Time: 8/23/2005 7:05
 Inspector: *[Signature]*
 Received By: *[Signature]*
 Date/Time: 8/23/2005 1405

Asbestos-Containing Materials Inspection

FOR

BIN 1022630
E Utica Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates
300 State St #201
Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5
100 Seneca Street
Buffalo, NY 14203

PIN – 5512.52.123

D038277

Watts Project No. 20220255

August 2023, Revised September 2023

Submitted by:

Watts
Architects
&Engineers



Watts Project Contact and Asbestos Fact Sheet



**Watts
Architects
& Engineers**

95 Perry Street
Suite 300
Buffalo, NY 14203

Andrew Klimek, CHMM, PG
Project Manager, Env. Dept. Manager
aklimek@watts-ae.com
716 206 5120

BUFFALO / SYRACUSE / NEW YORK watts-ae.com

Name and Address of Building/Structure

BIN 1022630 - E Utica St Bridge over
Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers
Matthew E. Holquist (NYS DOL Cert #01-08239)
Robert S. Swick (NYS DOL Cert #20-05731)
William G. Coyle (NYS DOL Cert #17-39002)

Date(s) the Inspection Was Conducted

May 10 & 23, 2023

Table of Contents

Watts Project Contact and Asbestos Fact Sheet	i
Table of Contents	ii
1.0 / Introduction	1
2.0 / Inspection Results	1
3.0 / Inspection Procedures	5
4.0 / Inspection Limitations	6
5.0 / Conclusions and Recommendations	6
Asbestos Bulk Sample Summary Table.....	8

Appendices

Appendix A – Photos

Appendix B – Figures

 Figure 1 – Project Location Map

 Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan
and Project Information

1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the E Utica Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022630) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 – Dodge Street Bridge over NYS Route 33
- BIN 1022620 – Northampton Street Bridge over NYS Route 33
- BIN 1022630 – East Utica Street Bridge over NYS Route 33
- BIN 1022640 – East Ferry Street Bridge over NYS Route 33
- BIN 1022609 – Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected a total of three (3) bulk samples to represent the one (1) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022630 – E Utica St Bridge over Kensington Expressway (NYS Route 33).

Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Grey Sheet Packing	Between Deck & Tops of Abutment at Both Ends of Bridge	140 SF	Non-Friable	Good	210.3312
Utility Conduit Packing / Sealant	Perimeter of the 12" Natural Gas Utility Casing (8" Gas Utility Within the Casing) that Penetrates Through Each Abutment	6 LF (~1.25 SF)	Non-Friable	Poor to Fair	210.481101
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

Confirmed ACM Details

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

Dark Grey Sheet Packing

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 140 square feet (approximately 70 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

Utility Conduit Packing / Sealant

The asbestos-containing utility conduit packing / sealant associated with the gas utility at this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

An asbestos-containing packing/sealant is located at each abutment penetration of the 12" utility conduit that contains an 8" gas line. The approximately 2.5" thick bead of packing/sealant is located around the perimeter of the conduit. The ACM was previously observed to be generally intact at the eastern abutment, however, at the western abutment, approximately half of the ACM was previously observed to be dislodged and laying on top of the abutment shelf. It is estimated that the total amount of asbestos-containing packing/sealant associated with the two abutment penetrations is approximately 6 linear feet (1.25 square feet for NYSDOL reporting purposes).

Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

This ACM has also been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately

2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Inaccessible Assumed ACM

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201
Felt Expansion Material	Buried Retaining Wall Penetrations Associated with the 16” Water Utility at Landen Street	~8 LF (~34 SF for NYSDOL Reporting Purposes)	Non-Friable	Unknown	210.3111

Inaccessible Assumed ACM Details

Waterproofing – Item 61 – Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1’ on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

Felt Expansion Material

Record plans dated 1967 indicate that a suspect asbestos-containing felt expansion material was installed at each retaining wall penetration buried beneath the Kensington Expressway (NYS Route 33) in association with a 16” water line at Landon Street, which is the next street south of E. Utica Street (approximately 350’ south). While there is no bridge located at Landon Street, disturbance of the retaining wall and this suspect ACM is currently planned as part of the overall Kensington Expressway Project (PIN 5512.52), and as a result, this report is the most logical place to identify this Inaccessible/Assumed ACM that is affected by the project.

It is assumed that the 16" diameter water utility line (having a circumference of 50") is completely wrapped with the suspect asbestos-containing felt expansion material through the full thickness of each of the approximate 4' wide retaining wall bases. This results in approximately 34 square feet in total of felt expansion material (17 square feet at each retaining wall penetration). The 1967 record plan shows the felt expansion material to be used at a total of 2 retaining wall penetrations (note that the ramp retaining wall is not to the water line depth at this location). See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information** for the record plan drawing that identifies this Inaccessible/Assumed ACM.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A – Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

- Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.
- Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.
- Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6”-12” below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- **Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 140 square feet (70 square feet each side) of dark grey sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022630.
- **Utility Conduit Packing / Sealant (Pay Item 210.481101 Removal and Disposal of Miscellaneous ACM (BV14) Foot)** – Approximately 6 linear feet (~1.25 square feet for NYSDOL reporting purposes) of utility conduit packing / sealant is located around the perimeter of the gas utility line conduit abutment wall penetrations at both ends of the bridge at BIN 1022630.
- **Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,179 linear feet (~545 square feet for NYSDOL reporting purposes) of asbestos-

containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.

- **Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- **Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot)** – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.
- **Felt Expansion Material (Pay Item 210.3111 Removal and Disposal of Underground Pipe ACM (BV14) Foot)** – Approximately 8 linear feet (~34 square feet for NYSDOL reporting purposes) of felt expansion material is associated with where the 16” water utility line penetrates both of the retaining walls at Landen Street (which is the next street located south of E. Utica Street).

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.

Asbestos Bulk Sample Summary Table

BIN 1022630 – E Utica St Bridge over Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York
P.I.N. 5512.52.123

Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022630-01	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022630-02	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022630-03	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected

Appendix A

Photos



Photo 1 - View to the north from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 2 - View to the east from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 3 - View to the south from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 4 - View to the west from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 5 – BIN plate located on the adjacent fence at the northeast quadrant of BIN 1022630.



Photo 6 – View looking south towards the northeast side of BIN 1022630 during the night-time inspection that occurred after closing the EB Kensington Expressway (EB Route 33).



Photo 7 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022630 was confirmed as an ACM. Picture taken at the southeast quadrant of the bridge.



Photo 8 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022630 was confirmed as an ACM. Picture taken at the center of the east abutment.



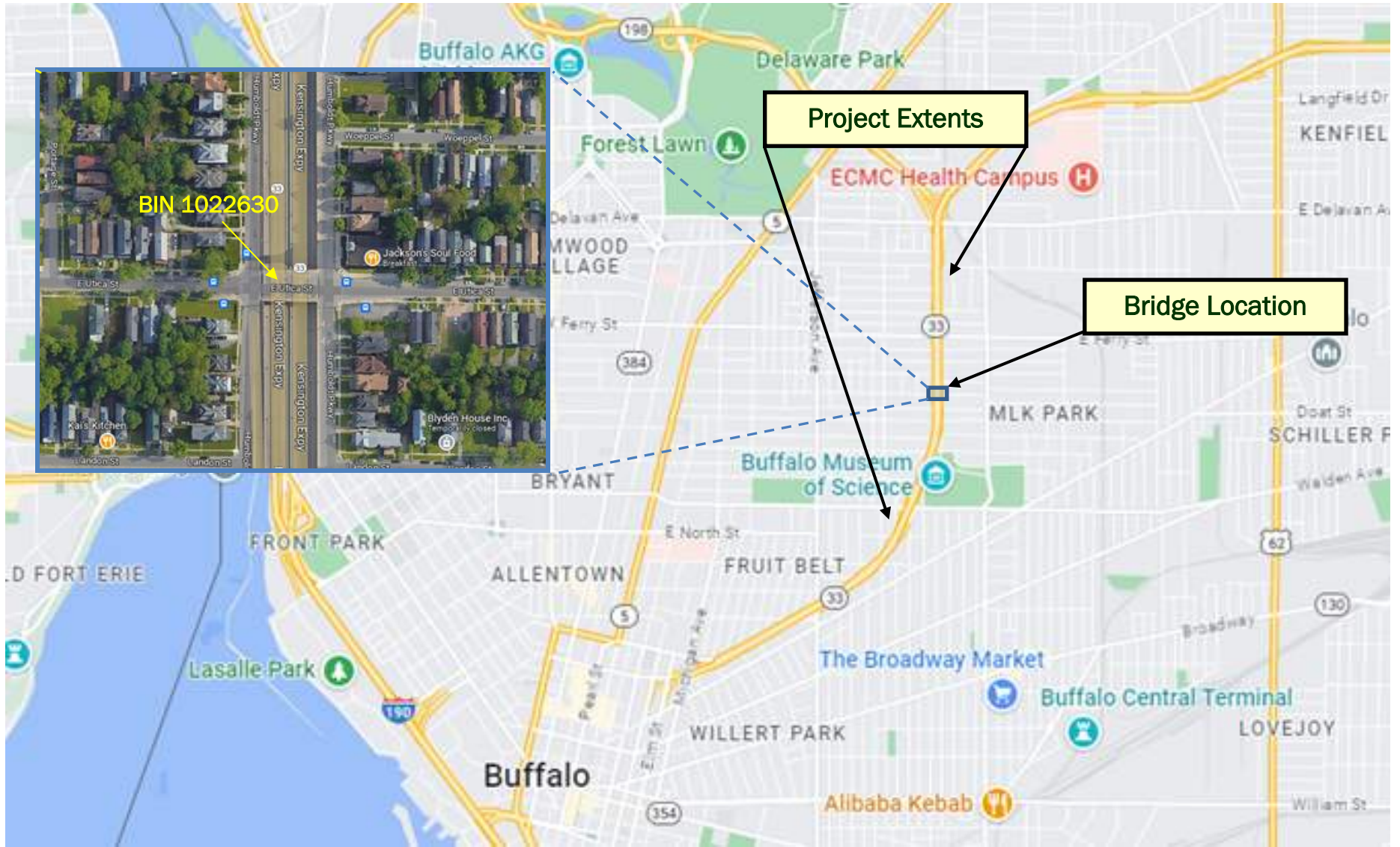
Photo 9 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



Photo 10 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

Appendix B

Figures



Project Location

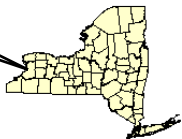


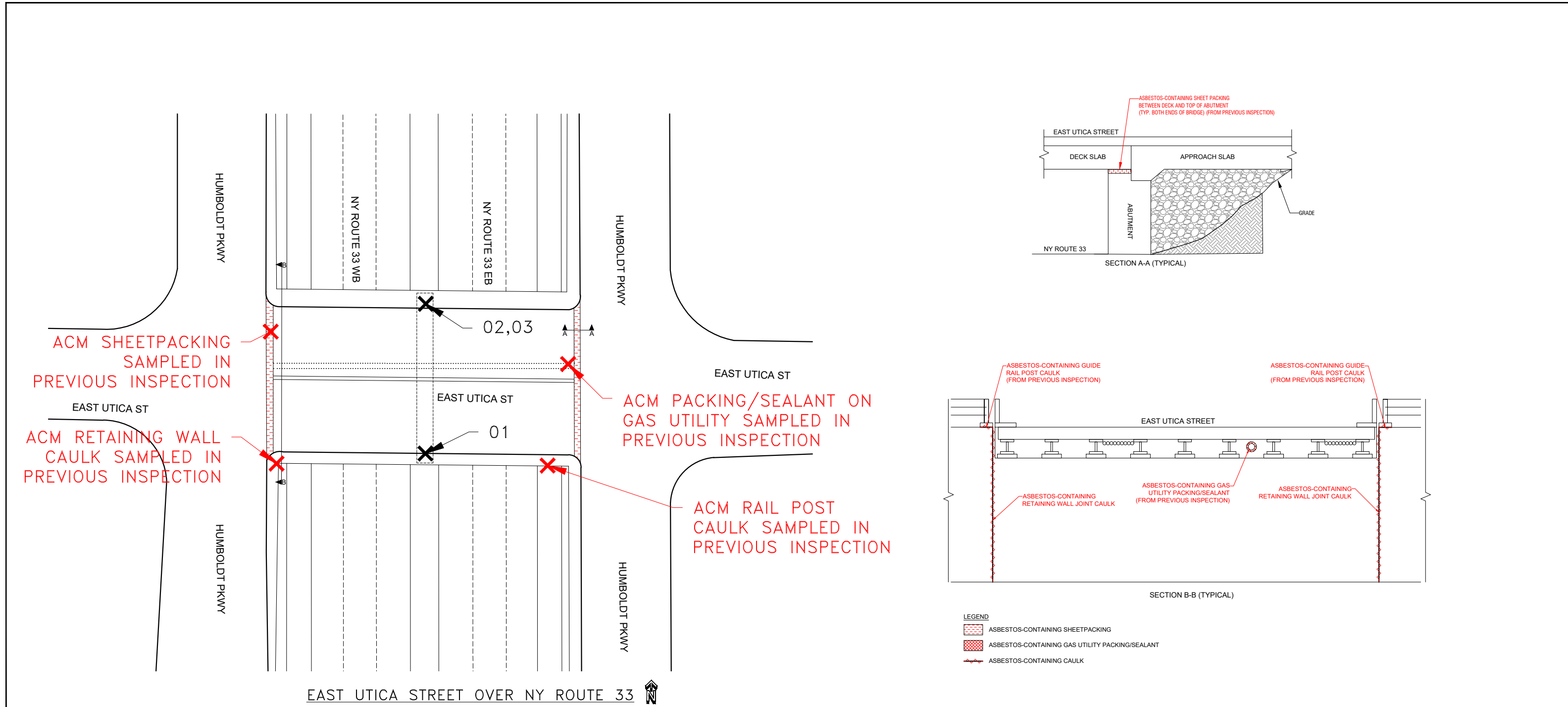
FIGURE 1 - PROJECT LOCATION MAP

E Utica Street over Kensington Expressway (Rt 33)
BIN 1022630
City of Buffalo, Erie County, New York

Not to Scale

June 2023

Source: Google Maps 2023.



SAMPLES ARE PREFIXED BY 1022630-
 SAMPLES WERE COLLECTED ON JUNE 3, 2023.
 X INDICATES APPROXIMATE SAMPLE LOCATION
 X SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

FIGURE 2
 ASBESTOS BULK SAMPLE LOCATIONS
 BIN 1022630

Watts Architects & Engineers
 95 Perry Street, Suite 300
 Buffalo, New York 14203
 (716) 206-5100 | (716) 206-5199 Fax

EAST UTICA STREET OVER NY ROUTE 33
 CITY OF BUFFALO, NEW YORK

NOT TO SCALE JULY 2023

Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalo@emsl.com>

EMSL Order: 142302267
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022630/East Utica Over Kensington (Rt. 33)

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 05/23/2023 3:36 PM
Analysis Date: 05/30/2023 - 05/31/2023
Collected Date: 05/23/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-01 142302267-0001		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022630-02 142302267-0002		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022630-03 142302267-0003		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected

Initial report from: 05/31/2023 15:19:33



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142302267
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 5/23/2023
Analysis Completed Date: 5/30/2023

Sample Receipt Time: 3:36 PM
Analysis Completed Time: 2:20 PM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (3)

Tom Hanes TEM NYS 198.4 NOB (3)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/31/2023 15:19:33

142302267

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Page: 1 of 2

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022630/East Utica over Kensington (Rt. 33)
Contact: Matt Holquist at (716) 435-1724
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 5/23/23
Watts Project No.: 20220255

Analysis Requested: ELAP 198.1 (Friable PLM) X
ELAP 198.6 (NOB PLM) X
ELAP 198.4 (NOB TEM) X
Other (Specify) _____
Turnaround Time Requested: 24 Hr. _____ 5 Day _____
48 Hr. _____ 1 Week X
72 Hr. _____ 2 Weeks _____
96 Hr. _____

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022630-01	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, South		
1022630-02	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North		
1022630-03	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/10/23 Time: 17:00 Received By: _____ Date: _____
Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 05/23/23 Time: 15:30 Received By: _____ Date: _____

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

RECEIVED
MAY 23 2023

BY: *[Signature]* 3:36
WF

Appendix D

License(s)
And
Certification(s)



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2023

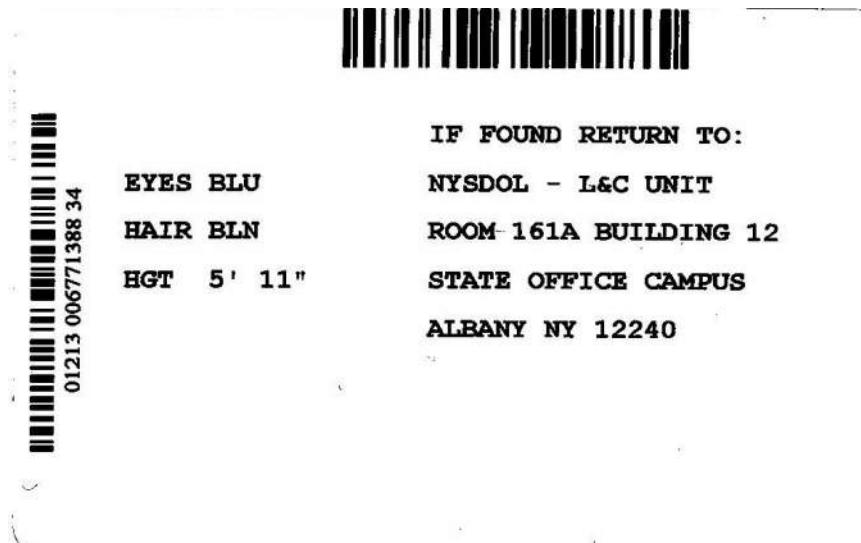
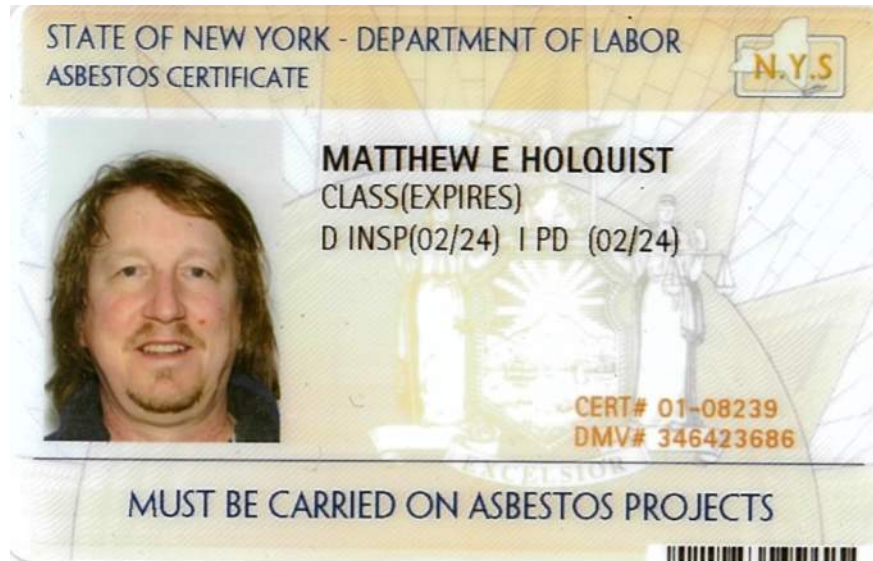
Duly Authorized Representative – Kevin Janik:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

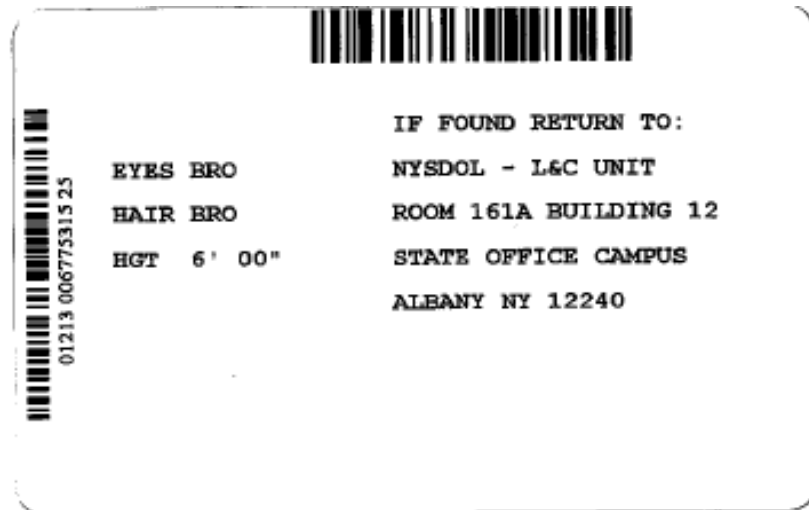
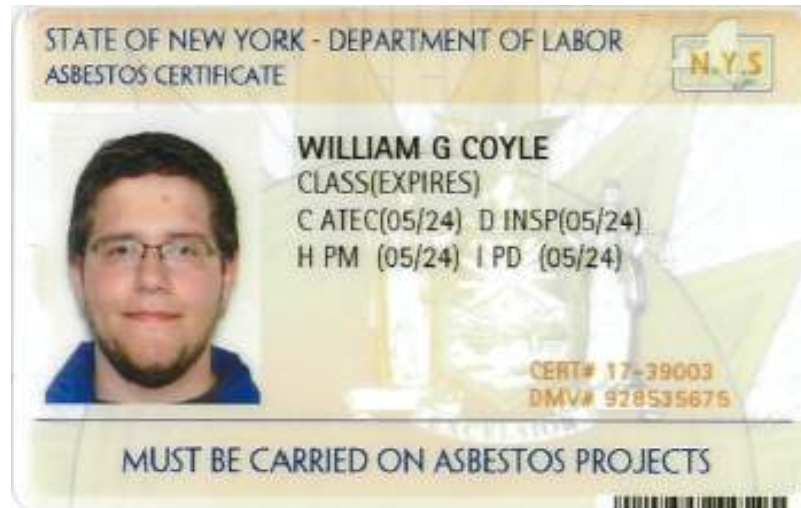
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



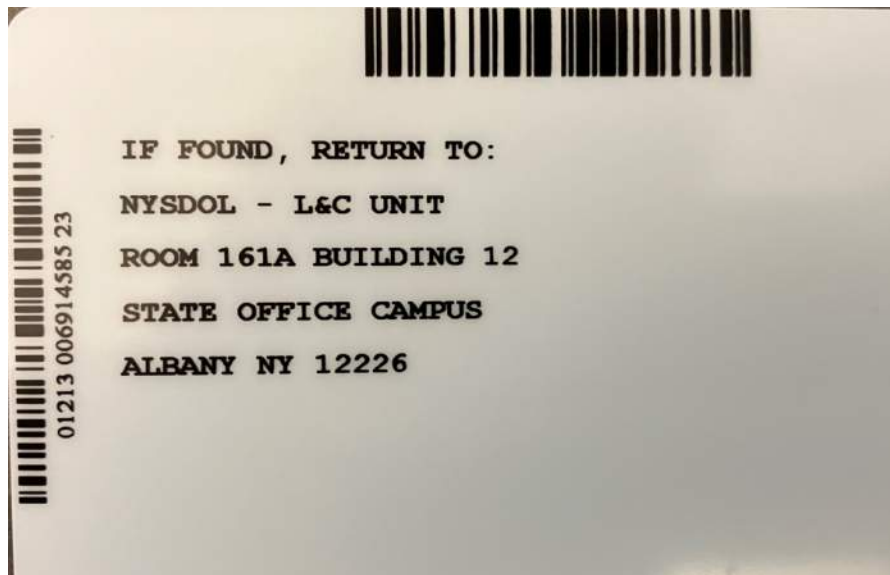
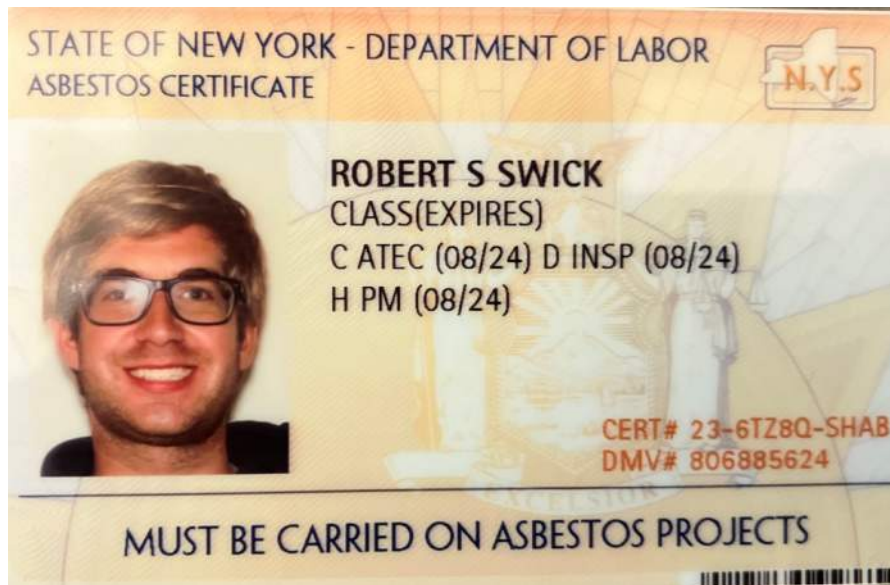
Matthew E. Holquist

D - Inspector
I - Project Designer



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

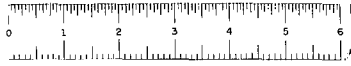


Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor

Appendix E

Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information



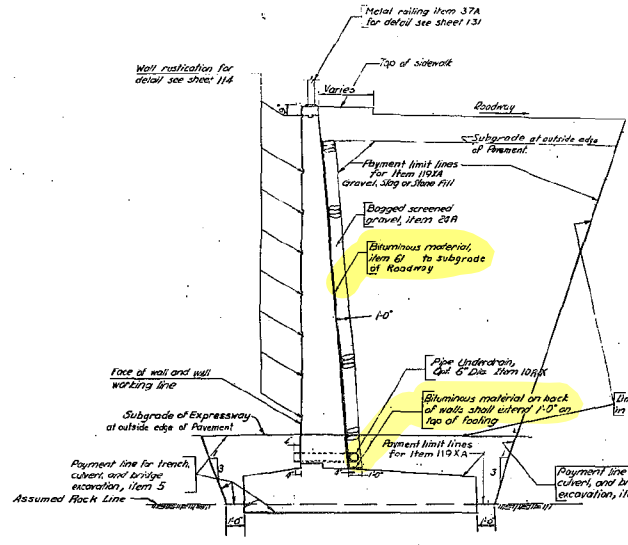
F.A.C. 59-19					
FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(1)	5	132	178

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

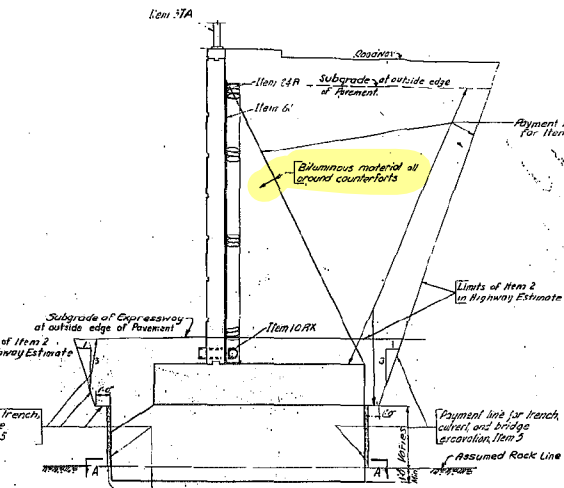
GENERAL NOTES FOR WALLS

- Design is based on 1953 Specifications of A.A.S.H.O. (modified).
- See plans and elevations of walls on wall sheets, for location and extent of wall sections, elevations of bottom of footings, location of all joints, setting layout, piles and rustication pattern.
- All concrete for wall construction is Item 185 unless otherwise indicated on sections.
- All splices shall be 40 diameters minimum.
- Minimum clear spacing of bars must be 2".
- Before placing concrete, proper provision shall be made for any anchor bolts, utilities, drainage, expansion and contraction joint details, etc. as required.
- All expansion joints in walls, as shown on plans, are to be 1/2" unless otherwise indicated; as detailed on sheet No. 114.
- All longitudinal bars shall run continuous between contraction joints unless otherwise shown, and shall end 2' clear from the joints.
- The design of footings without piles is based on an allowable bearing pressure of 8 tons per sq. ft. on rock, and 1.3 tons per sq. ft. on soil.
- Backfill must be placed simultaneously against both sides of all walls.
- For locations where 6" diameter pipe underdrain is used, see plans and elevations of walls.
- Payment lines for excavation as shown on the wall sections are to be typical for all wall sections.
- Pile footings are based on allowable pile loading of 37 tons per pile.
- Piles shown battered are on 4 on 1 in direction, indicated on plan of footing and in sections.
- Design of footings shown may be changed as required, as directed by the Deputy Chief Engineer, after excavation is made and subsurface conditions determined. If piles are required where not shown, revised footing details will be furnished by the Engineer.
- All radii and dimensions are given along the working line face of wall unless otherwise noted.
- Conditions: Piers under footing to be individual, pour footing to be individual pour; counterfort and wall to be poured monolithically.
- All cement used in the concrete items for walls shall be Portland Cement Type 2, Item 15-2, with Duxer A.E.A. (Air Entraining Agent) added. Duxer A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the water at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Duxer A.E.A. dispenser. The amount of Duxer A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 5% minimum and 5% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer. The cost of finishing and adding the Duxer A.E.A. and all the labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete item.
- The design of all wall sections is based on a certain height (from bottom of footing to top of wall) with 2'-0" intervals. The maximum height of the walls is indicated by the number of the wall section. For example: T-20 is to be used for heights varying from 16'-0" to 20'-0". If during construction, existing subsurface conditions make it necessary to lower or raise a wall beyond the limits, etc. called for wall section, the next lower or higher wall section shall be used, if ordered by Engineer.
- Minimum cover for reinforcement is 2" unless otherwise noted.
- All piles to be steel bearing H-piles (10" B.P. 42).
- A raftering cleat shall be used in Item 165, T-20's.
- FOOTING ON ROCK: All disintegrated or shattered material shall be removed to lines and levels ordered by the Engineer. Where sound rock is found below the planned levels of the bottom of footings, a depth of Class I concrete Item 203 shall be installed to the levels shown on the plans, or as directed by the Engineer. Rock removed for the levels directed by the Engineer and outside the wall faces must be replaced by backfill of Class I concrete for walls. Subgrade of Service Road - no payment will be made at outside edge of pavement.



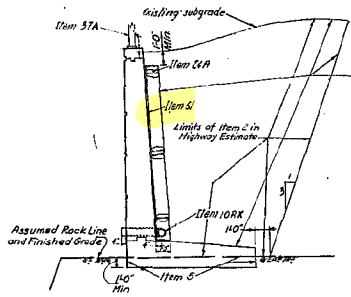
TYPICAL T-WALL SECTION IN ROCK

NOTE: Cost of pipe drain thru wall included in concrete item.



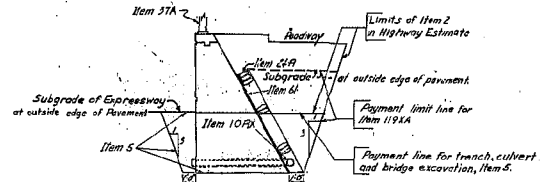
TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



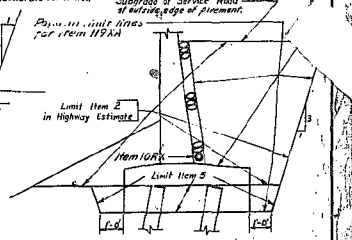
TYPICAL L-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in Wall section.



TYPICAL T-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in wall section in earth.

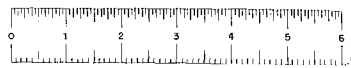


TYPICAL T-WALL SECTION ON PILES

GENERAL NOTES & PAYMENT-LINES FOR WALLS			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEIN, CATHER & BRILL	ENGINEERS-ARCHITECTS	DRAWN	CHECKED
		BY	BY
302 E. 44th ST. NEW YORK 17, N.Y.		NEW YORK 17, N.Y.	

SHEET NO. 132

NO AS BUILT REVISIONS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.O 1953 modified (loading H 20-44)
 MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, pre-purged bituminous joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint Sealing Compound shall be paid for under item 351X.
 Bituminous material, Item 351, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.
 When the concrete is cured, finished and protected, rubbed, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.
 Item 305B in highway estimate.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.
 Field connections shall be made with 8" high strength bolts or rivets. Nuts and bolts may be omitted and weld substituted if the Contractor so elects.

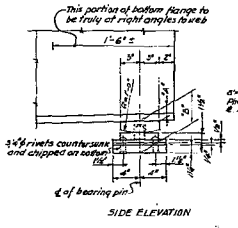
Shop paint: Red lead and oil first coat to be satisfactory dry point. Second coat to be gray green paint. Spinal bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead loads, corrections may be made in the thickness of wearing surface of roadway and side walks. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge deck to be poured 1/4" higher than elevation specified and bush hammered to exact elevation.
 All concrete used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A.E.A. Air Entraining Agent added.
 Dares A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A.E.A. dispenser. The amount of Dares A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dares A.E.A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pile concrete shall be Item 185.
 All concrete in abutments including wingwalls and footings and pier column footings shall be Item 305.
 Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footings.
 FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

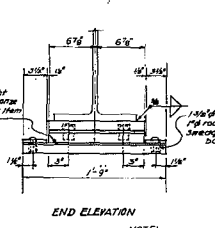
Retaining masonry shall be used in Item 18 and Item 205.
 Size of pipe sleeves and type of hangers shall be as per the (request the Gas Dept. or Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	5 1/2"	3 1/2"	7"	3 1/2"	3"	5 1/2"	16 1/2"	16 1/2"	5 1/2"

NO AS BUILT KEYINGS
 Pipe supports for Water Line shall be included in the bid price for Item 185.
 Anchor Chairs with U-Bolts and pipe hangers for Gas Line to be furnished and erected by others.
 Notes in diaphragms to be provided by Contractor.

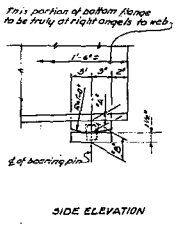


EXPANSION BEARING
Scale 1/4"=1'-0"

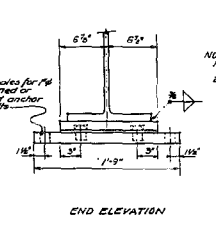


END ELEVATION

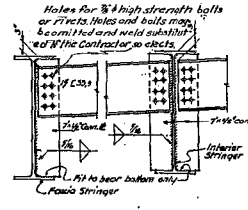
NOTE: Anchor bolts shall be accurately placed by means of a template used set 18" into masonry.



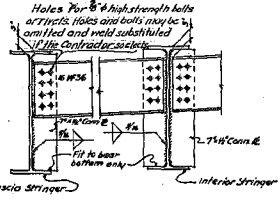
FIXED BEARING
Scale 1/2"=1'-0"



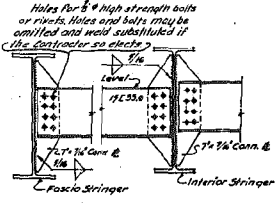
END ELEVATION



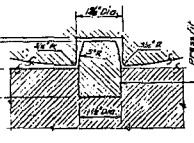
END DIAPHRAGMS AT ABUTMENTS
Scale 3/4"=1'-0"



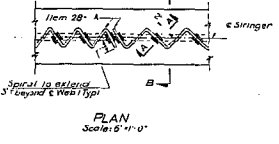
END DIAPHRAGMS AT PIERS
Scale 3/4"=1'-0"



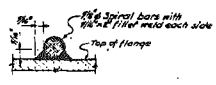
INTERMEDIATE DIAPHRAGMS
Scale 3/4"=1'-0"



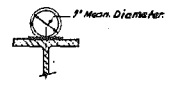
SECTION THRU DOWEL
Scale 1/2"=1'-0"



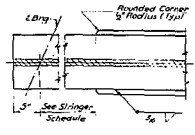
PLAN
Scale 1/2"=1'-0"



SECTION A-A
Half Size



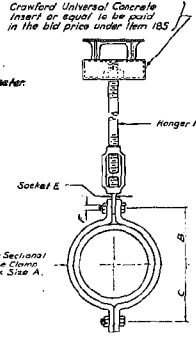
SECTION B-B
Scale 1/2"=1'-0"



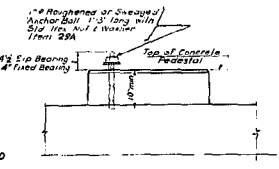
COVER PLATE DETAILS
Scale 1/2"=1'-0"

NOTE: Special precautions must be exercised when welding exposed edge of flange to avoid any possibility of undercut or other weakness of flange.

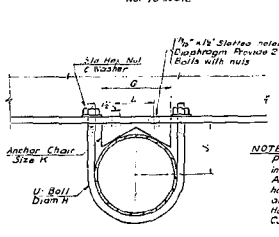
NOTE: All spirals shall be 1/2" plain bars with mean diameter 7".
 All spirals shall have two structural welds at each point of contact with beam, one weld each side of rod.
 7/8" or 1" diameter electrodes shall be used in welding the spiral bar shear connectors.
 At the end of beam the spiral steel project about one third of the pitch beyond the end weld.
 The Contractor's attention is called to the possibility of interference between the reinforcing steel in the slab and the beam spirals. To avoid this interference the bar spacing may be varied 1" with the understanding that the required area of steel will be placed in each 7". Even then, some bars will have to be retraced thru one or more spirals.



PIPE HANGER WITH TURNBUCKLE & INSERT
Scale 3/4"=1'-0"

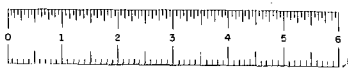


ANCHOR BOLT DETAIL
(TYPICAL)
Not to scale



ANCHOR CHAIR WITH U-BOLT
Scale 3/4"=1'-0"

BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES
 STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1
 DE LOUW, CATHAR & BRILL ENGINEERS - ARCHITECTS
 302 E. 44th ST. NEW YORK 17, N. Y.
 DRAWN: J.C.
 CHECKED: J.C.
 TRACED: J.C.

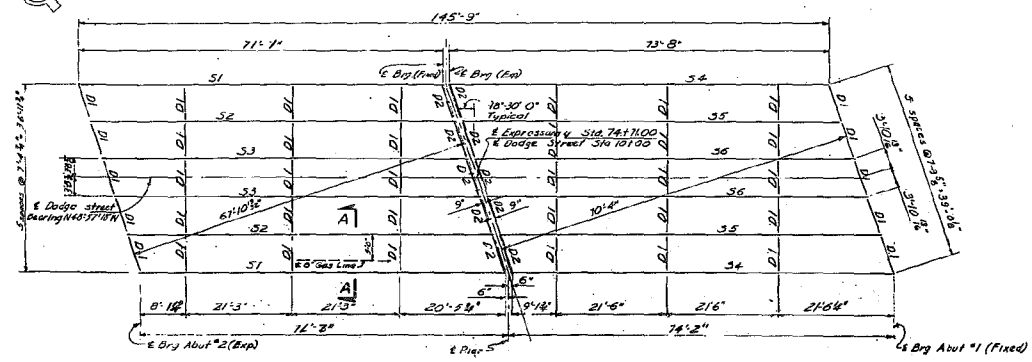


F.A.C. 58-19

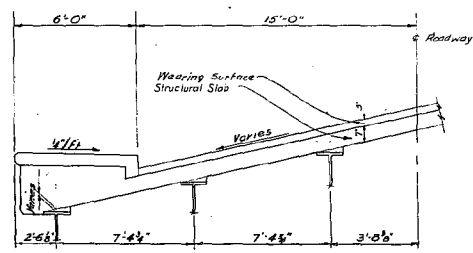
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-311(1)	171	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II



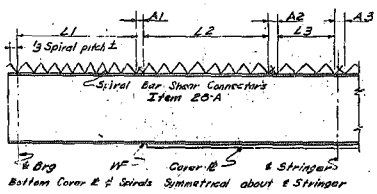
FRAMING PLAN
Scale 3/4" = 1'-0"



DIAGRAMMATIC SECTION
Not to Scale

STRINGER	M.K. NO.	SIZE	BOTTOM COIL & BRIST		SPIRAL SHEAR CONNECTORS			DIMENSION			CAMBER			
			SIZE	LENGTH	SECTION L-1 LENGTH FITCH	SECTION L-2 LENGTH FITCH	SECTION L-3 LENGTH FITCH	A-1	A-2	A-3		DEAD LOAD		
31	2	36WF10	71'-1"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/8"
32	2	36WF10	71'-1"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 5/8"
33	2	36WF10	71'-1"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/8"
34	2	36WF10	71'-1"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/8"
35	2	36WF10	73'-8"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 5/8"
36	2	36WF10	73'-8"	10'-4 1/2"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 5/8"

NOTE: Number of beam to be measured with beam lying on its side.

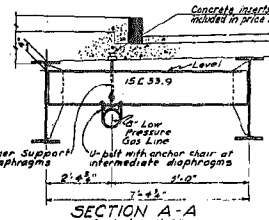


STRINGER DETAILS
Not to Scale

NOTE: Field welding of spiral reinforcement will not be permitted.

ITEM No.	DESCRIPTION	UNIT	TOTAL NEAR	TOTAL ADJUSTED	FINAL
5	Trench, Culvert and Bridge Excavation	C.Y.	692	790	466
10R1	Sewer Pipe (14" Dia) 6' Dia	L.F.	28	37	0
10RX	Pipe Underdrain 6" Dia	L.F.	214	240	214
15-2	Portland Cement, Type 2	Bbl	1353	1500	1123
18	Class I Concrete for Structures	C.Y.	129	158	109
20 S	Class I Concrete	C.Y.	171	152	169
24A	Bagged Screened Gravel	C.Y.	116	124	86
24B	Bar Reinforcement for Structures	Lb.	69714	102,300	100,935
28A	Spiral Bar Shear Connectors	Lb.	2586	4,690	4,620
28A	Structural Steel	Lb.	1,90280	176,600	175,558
27A	Welded Rebar	Lb.	298	400	278
32 2X	Asphalt Concrete, Type 9B	Ton	85	90	42
61	Bituminous Material	Sq. Yd.	159	150	65
66	Protective Coating for Concrete	Sq. Yd.	91	82	51
13A	Cast Iron Pipe 6" Diam.	S.F.	2768	2,940	111
65T	Temporary Timber Sheet Piling	L.F.	302	320	302
64 10	12" Stone Curbs (Bridge)	Sq. Yd.	450	465	1106
102A	Gravel, Size or Stone Fill	C.Y.	160	140	124
301 S	Vertical and Inclined 2" Galvanized Steel Cansul	L.F.	2	2	2
303 S	Horizontal Light Steel Cansul, Type A (2" Mount NGL)	L.F.	2	2	2
531	Joint S. Slab Component	Sq. Yd.	7	9	7
532	Surface Ducting with Fine Aggregate	Sq. Yd.	504	510	503

W/ W/8 Dorex A.E.A. added.



SECTION A-A
Scale 1/4" = 1'-0"

NOTE: Distance between pipe supports shall be 12 ft. For details of pipe supports see Sheet No. 14.

REVISION TO QUANTITY TABLE

DODGE STREET OVER EXPRESSWAY FRAMING PLAN

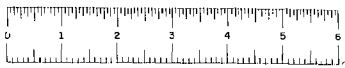
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL

KENSINGTON EXPRESSWAY, SEC. NO. 1

DE LEUN, CATHEN & BRILL
ENGINEERS - ARCHITECTS

DRAWN: H.S.M.
CHECKED: F.C.
TRACED: C.B.

303 E. 44th ST. NEW YORK 17, N.Y.



F.A.C. 59-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(II)	181	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.S.H.C. 1953 modified - loading 14.20-315-44.
 MATERIALS & FABRICATION Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, prepacked, bituminous joint material, asphalt sheet piling and 1/2" asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint sealing compound shall be paid for under Item 3511.
 Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the top of footings to the bottom of pavement.
 When the concrete is cured, finished and (if ordered) rubbed, and the surface is clean and dry, the contractor shall apply a water-soluble silicone solution to all exposed surfaces except the underside of slab.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer Bridges.

Field connections shall be made with 3" high strength bolts or rivets. Holes and bolts may be omitted and Weld substituted if Contractor so elects.
 Step joints: Red lead and oil flint field coat to be cast in gray paint. Second field coat to be gray green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of wearing surface of roadway and side walk. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substituting notes which briefly outline the anticipated structure conditions at the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge seats be poured 4" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dorex A.E.A. Air-Entraining Agent added.
 Dorex A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dorex A.E.A. dispenser. The amount of Dorex A.E.A. to be added shall be of such a quantity as to insure a controlled air-entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4.5% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dorex A.E.A. and all mixing and equipment necessary to control the air-entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pier concrete shall be Item 185. Concrete in Abutment Wingwalls including footings shall be Item 185.
 All concrete in pier footings and pedestals underfootings shall be Item 205.
 Maximum payment limits for excavation, Item 5, in rock shall be the real lines of the footings on rock. See note No. 23 sheet No. 132.

A retarding densifier shall be used in Item 85 and 20 5.
 Size of pipe sleeves and size and type of hangers shall be verified with the Engineers Gas Corp. or Division of Water of the City of Buffalo before fabrication of diaphragms. See Sheet No. 118 for additional notes.

SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	12"	7"	6"	3"	1"	3"	8"	6"	1/2"	3/4"	3/4"

NO AS BUILT REVISIONS

DODGE STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES

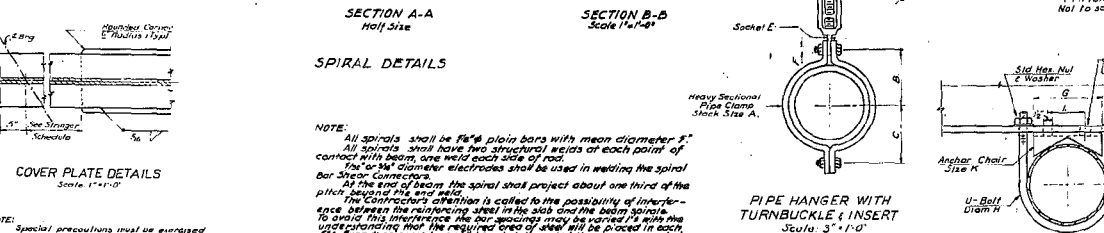
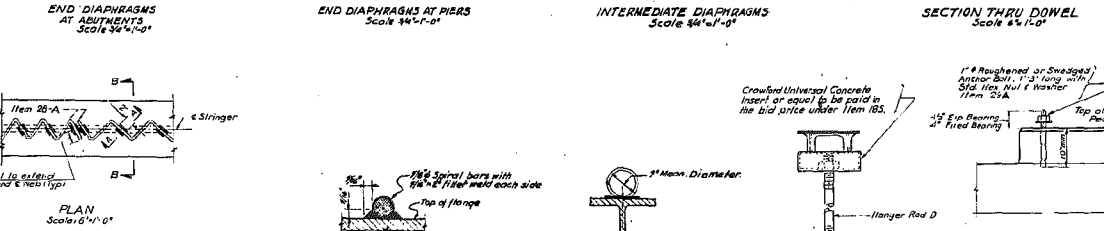
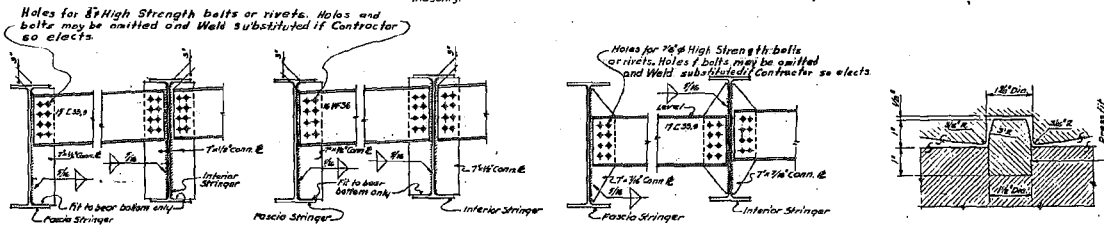
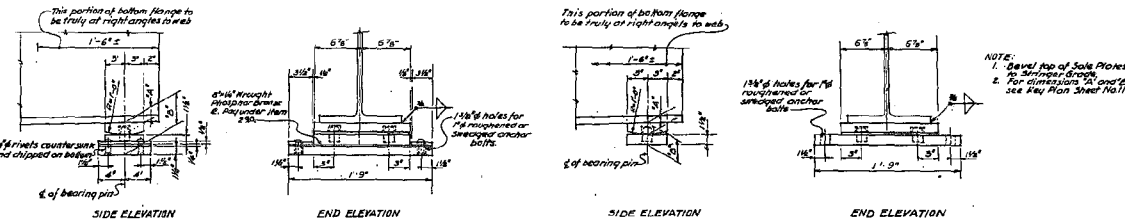
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1

DE LEUW, CATHY & BRILL
 ENGINEERS - ARCHITECTS

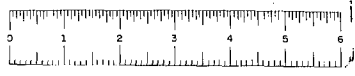
DRAWN: A.L.
 CHECKED: C.C.
 TRACED: C.B.

802 E. 44th ST., NEW YORK 17, N.Y.

Sheet No 12

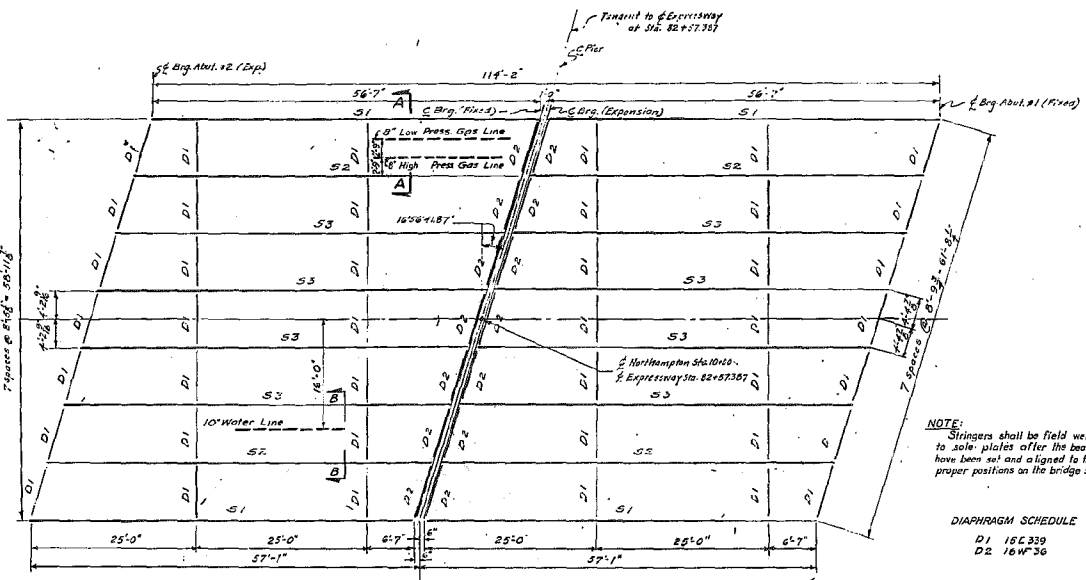


NOTE: Anchor Chairs with U-Bolts and Pipe Hangers for Gas Line to be furnished and erected by others. Holes in diaphragms to be provided by Contractor.



FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	BIBET NO.	TOTAL SHEETS
U-37107	N.Y.		1965	186	178

CONTRACT II



** Splices ordered are for either size of piles.

ITEM	DESCRIPTION	UNIT	TOTAL		FINISH
			NEAR	AWAY	
1	Trench, Curb and Bridge Excavation	CY	305	23.0	280
179A	Sewer Pipe (44" dia) 6' dia.	L.F.	75	15	0
110B1	Pipe Underdrain, 6" Dia.	L.F.	180	18.5	174
110C3	Drainage Channel, Type 2	EA	145	14.5	14.5
183	Class A Concrete for Structures	CY	350	75.8	324
202	Class I Concrete	CY	998	72.0	826
214	Approved Gravel	CY	112	11.2	101
224A	Bar Reinforcement for Structures	LB	92,779	9,520	83,259
224	Spiral Bar Shear Connectors	EA	8,881	2,780	6,101
224	Structural Steel	LB	186,000	171,500	170,200
27A	Meat Rolling	L.F.	221	2.35	221
27B1	Handed Concrete, Type 2B	CU	107	115	100
27	Reinforcing Equipment for Drilling Piles	EA	125	120	11
281	Protective Coating for Concrete	CU	113	120	14
281	Steel Bearing Piles (4" dia)	EA	2,083	2,720	303
282	Steel Bearing Piles (2" dia)	EA	480	200	280
282	Splices for Steel Bearing Piles	EA	35	37	0
28	Reinforcing Equipment for Drilling Piles	EA	166	190	0
281C	8" Stone Curb, 1' dia	L.F.	243	2.25	241
112A	Gravel, Slope or Slope Fill	CY	368	370	817
184	Soft Iron Pipe (4" dia)	L.F.	1	1	13
202B	Fence and Install 2" Reinforced Steel Conduit	EA	360	380	335
202A	Fence Light Standoff, Type A (25' Mount, High)	EA	72	72	2
205	Miscellaneous Metals	LB	268	270	221
211	Joint Sealing Compound	CU	9	9	4
213	Surface Drilling with Pipe Boremate	S.Y.	654	690	625
2207	Temporary Steel Sheet Piling	S.Y.	1,200	1,272	0

NOTE: Stringers shall be field welded to sole plates after the bearings have been set and aligned to their proper positions on the bridge seats.

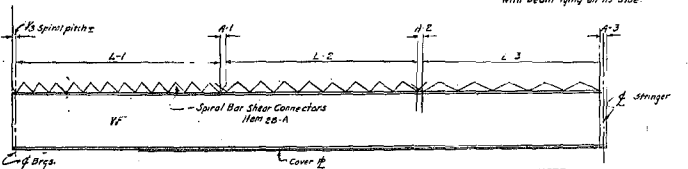
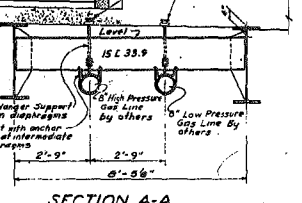
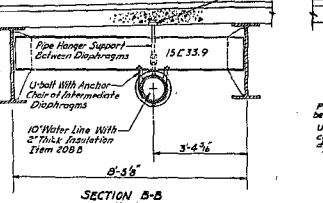
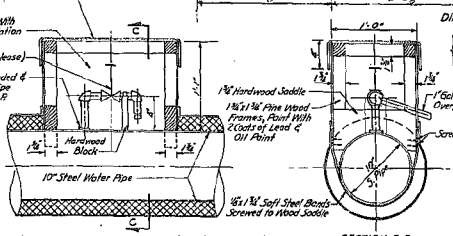
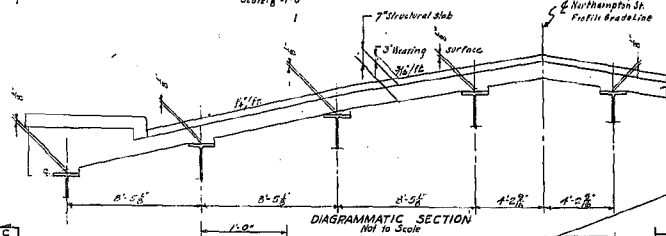
DIAPHRAGM SCHEDULE

- D1 15C339
- D2 16W36

STRINGER	Bot Cover #	SPIRAL SHEAR CONNECTORS						CAMBER
		Section L-1	Section L-2	Section L-3	CAMBER			
151	1	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
152	2	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
153	3	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

FRAMING PLAN Scale: 1/4" = 1'-0"

Note: Insulation shall be glass fiber pipe insulation in one piece molded sections 2" thick, as req'd. by Gustin-Brown Mfg. Co. or equal. Pipe insulation to be furnished with vapor barrier jacket of tough Kraft roll laminate. Jacketed pipe insulation shall be covered with Aluminum weather-proof jacketing as req'd. by Childers Mfg. Co. or equal.



NOTE: Field welding of spiral reinforcement will not be permitted.

STRINGER DETAILS Not to scale

FINAL QUANTITY REVISION			
NORTHAMPTON STREET OVER EXPRESSWAY FRAMING PLAN			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHY & BELL	DRAWN	K.C.C.	
ENGINEERS - ARCHITECTS	CHECKED	R.C.C.	
802 E. 42nd St.	NEW YORK 17, N.Y.	TRACED	28

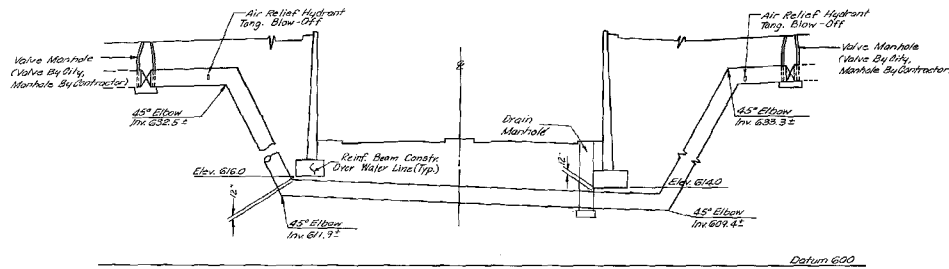
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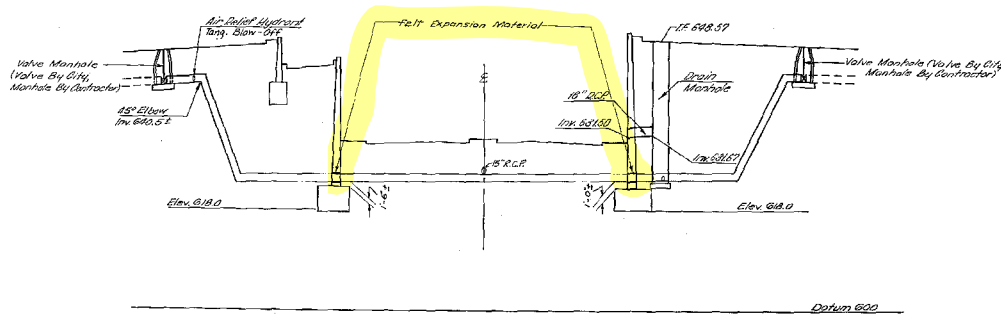
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FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		70	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY

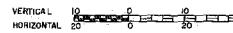


RELOCATED 36" WATER LINE
E. UTICA ST.
STA. 96+50 E
SCALE - HOR: 1"=20'
SCALE - VERT: 1"=10'

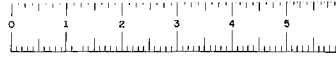


RELOCATED 16" WATER LINE
LONDON ST.
STA. 92+48 E
SCALE - HOR: 1"=20'
SCALE - VERT: 1"=10'

Date:	Oct 18, 1967
In Charge Of:	J.L. Morgan
Designed By:	S. Spence
Traced By:	M. DeBach
Checked By:	S. Spence

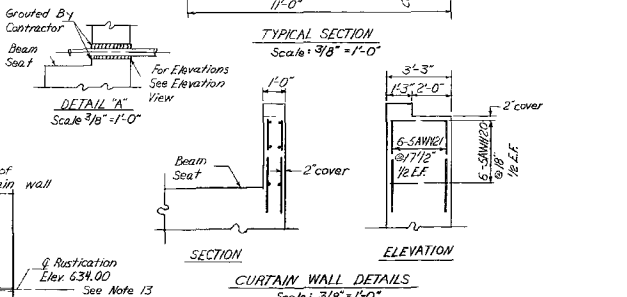
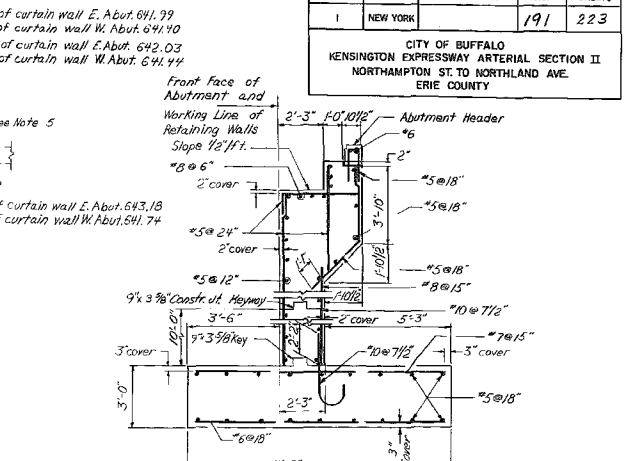
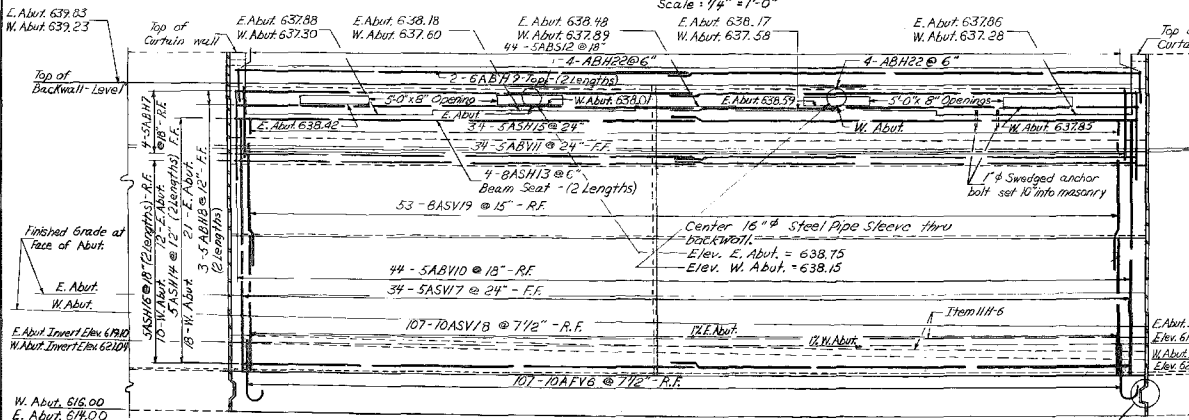
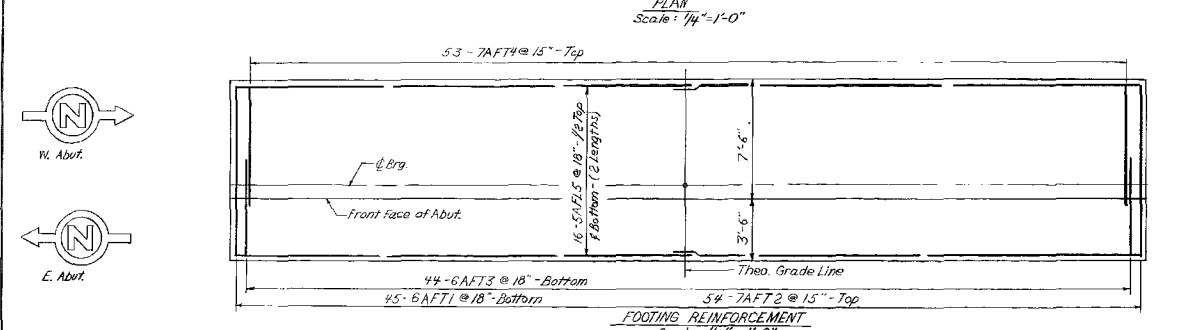
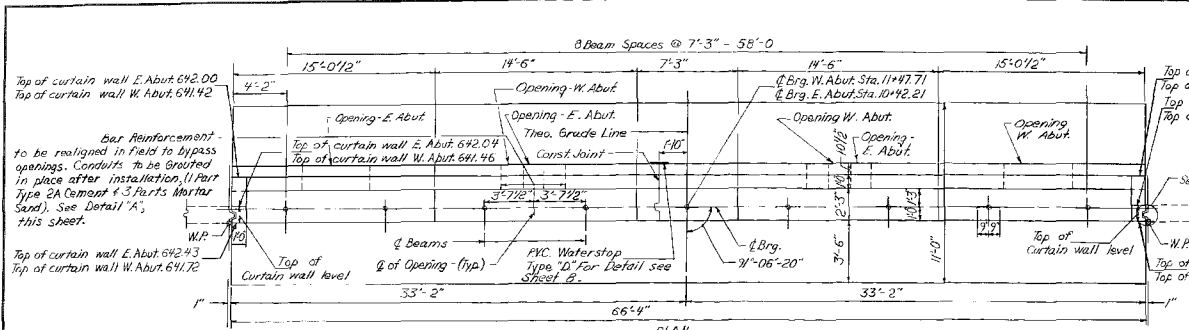


RELOCATED WATER LINE PROFILES	
PREPARED and RECOMMENDED	
<i>McFarland Johnson</i>	N.Y.S.P.E. LIC. NO. 11630, DATE: 6-21-67
McFARLAND-JOHNSON ENGINEERS, INC.	



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		191	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures. Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the Wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Vertical Surfaces, Bridge Seats, including the area under the Bearings, Exposed Vertical Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Trowel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Pay Lines at Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Cantilet Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the foundation pressure does not exceed 10 tons per square foot.

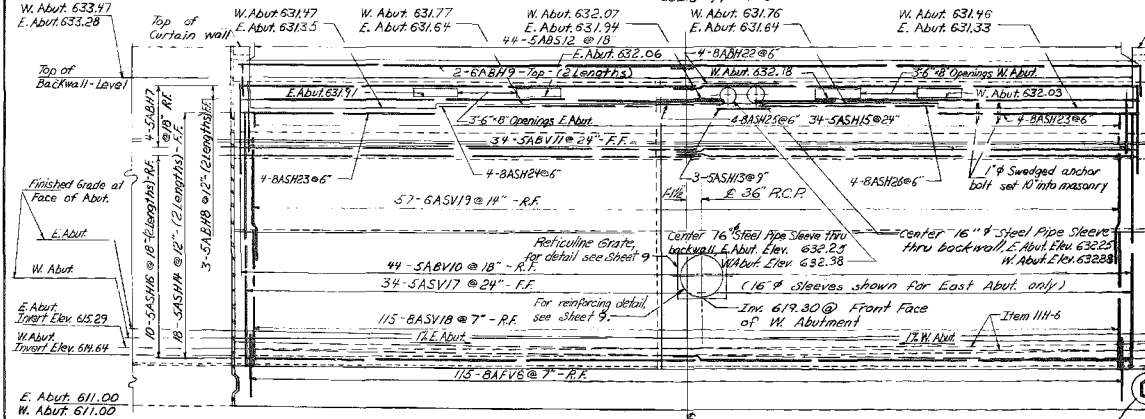
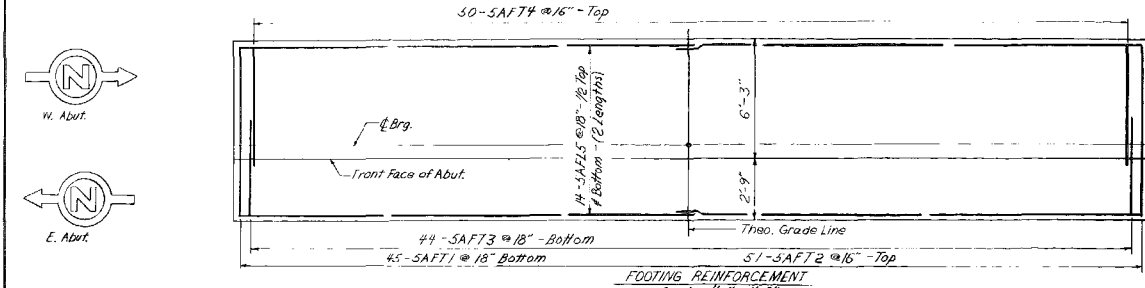
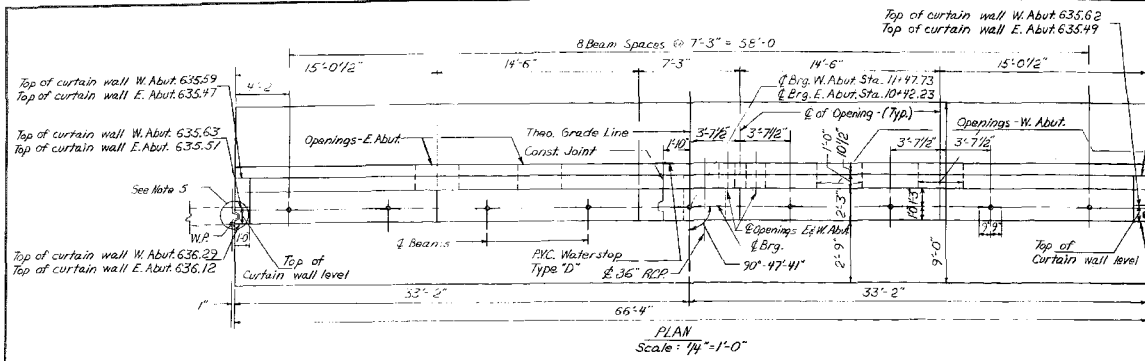
Date: JULY 14, 1957
In Charge Of: H. G. COLES
Designed By: W. D. SWECKER
Traced By: J. F. MEYER
Checked By: W. D. SWECKER

BRIDGE NO. 1

EAST UTICA STREET
OVER KENSINGTON EXPRESSWAY
ABUTMENT DETAILS

PREPARED AND RECOMMENDED
By: *W. D. Swecker* N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-57
McFARLAND-JOHNSON ENGINEERS

BRIDGE SHEET 3 OF 10



Bar Reinforcement to be developed in field to bypass opening. Conduits to be grouted in place after installation, (1 Part Type 2A Cement + 3 Parts Mortar Sand). See Detail 'A', this sheet.

Top of curtain wall W. Abut. 635.58
Top of curtain wall E. Abut. 635.75

Top of curtain wall W. Abut. 636.38
Top of curtain wall E. Abut. 635.90

Grouted by Contractor
Beam Seat

Top of curtain wall
Top of Backwall Level

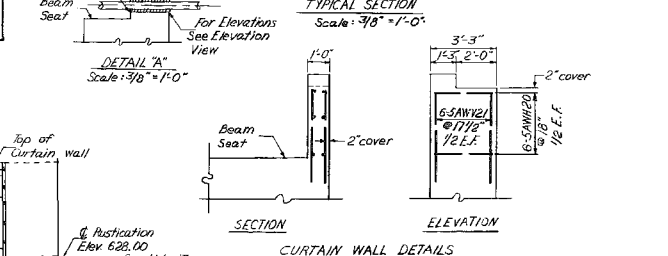
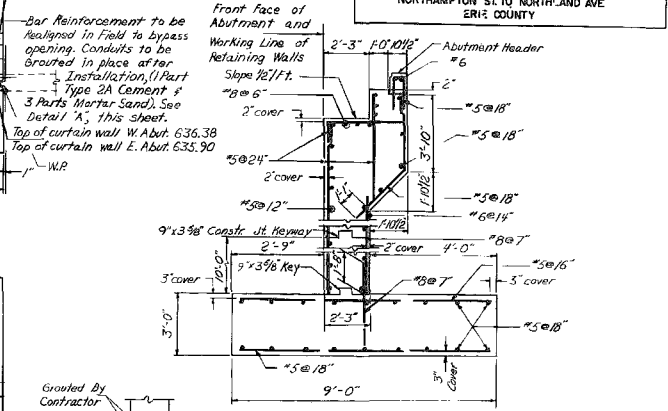
Finishing Elev. 628.00
See Note 13.

W. Abut. Invert Elev. 653.0
E. Abut. Invert Elev. 648.64

See Note 5

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		201	223

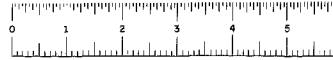
CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTH AND AVE
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures.
 - Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of footing, where fill is in contact with the wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Reinforcing Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Travel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Ray Lines of Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Conduit Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the Foundation Pressure does not exceed 10 tons per square foot.

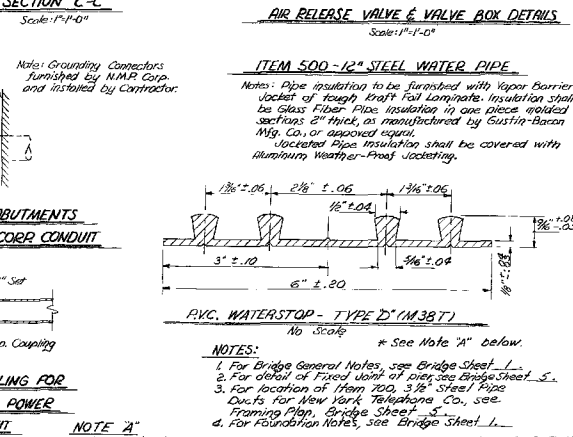
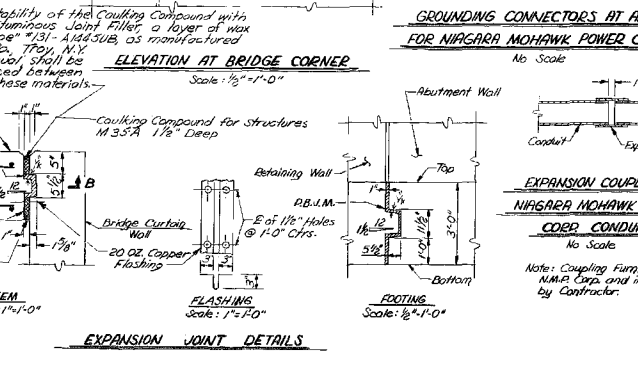
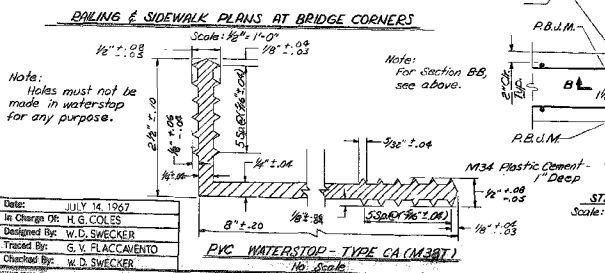
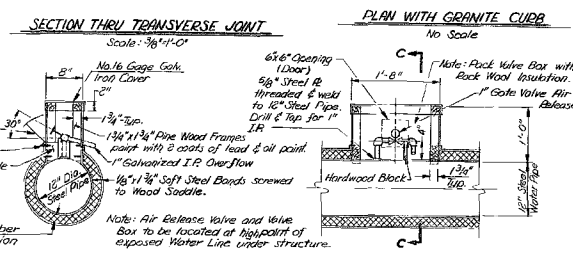
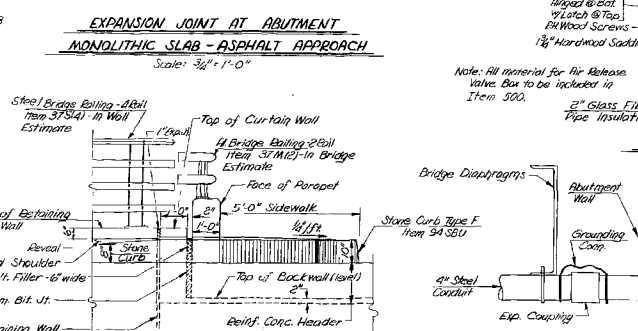
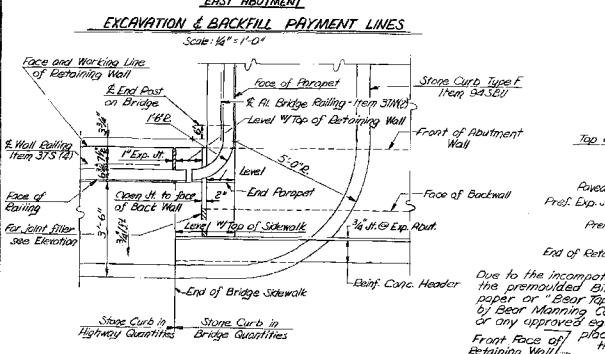
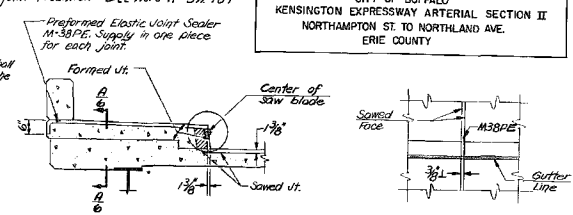
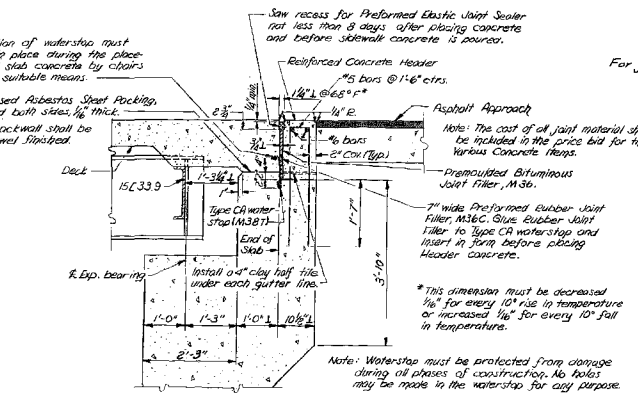
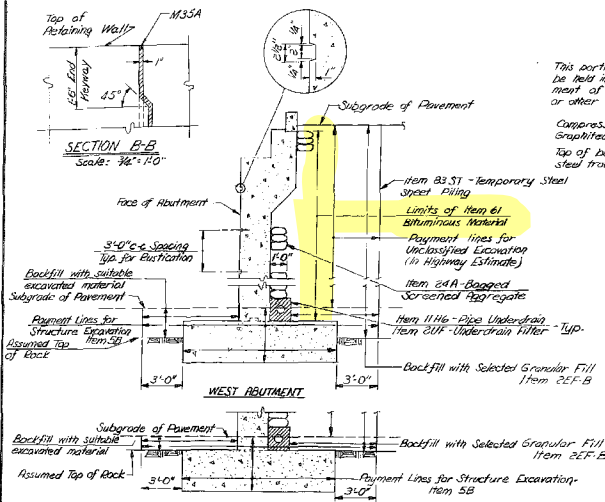
Date: JULY 14, 1967
In Charge Of: H. G. COLES
Designed By: W. D. SWICKER
Traced By: J. F. MEYER
Checked By: W. D. SWICKER

BRIDGE NO. 2	
EAST FERRY STREET OVER KENSINGTON EXPRESSWAY ABUTMENT DETAILS	
PREPARED AND RECOMMENDED BY	N.Y.S.P.E. LIC. NO. 20182 DATE 7-23-67
MCFARLAND JOHNSON	ENGINEERS



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		206	

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



Date: JULY 14, 1967
In Charge Of: W.G. COLLIER
Designed By: W.D. SWECKER
Traced By: G.V. FLACCAVENTO
Checked By: W.D. SWECKER

NOTE 2
Holes must not be made in waterstop for any purpose except as required for Tacking to Forms. Tacking to forms will only be permitted in the area between the outside ribs and the edges of waterstop. Type D waterstop shall be light gray in color.

BRIDGE NO. 2	EAST FERRY STREET OVER KENSINGTON EXPRESSWAY MISCELLANEOUS DETAILS
PREPARED AND RECOMMENDED BY: [Signature]	NY S.P.E. LIC. NO. 20143 DATE: 7-25-67
MCFARLAND-JOHNSON ENGINEERS	



Asbestos-Containing Materials Inspection

Location:

BIN 1022630

East Utica Street Bridge

Over Kensington Expressway (NY Route 33)

City of Buffalo,

Erie County, New York

Prepared for:

New York State

Department of Transportation

PIN - 5813.75.121

LaBella Project No. 2190777

April 29, 2022

Table of Contents

	Page
I. Introduction	1
II. Inspection Results	1
III. Inspection Procedures	3
IV. Inspection Limitations	4
V. Conclusions and Recommendations	4
Asbestos Bulk Sample Summary Table	T-1
Appendix A – Asbestos Inspection Fact Sheet	FS-1
Appendix B – Figures	
Appendix C – Laboratory Analytical Report	
Appendix D – Licenses and Certifications	
Appendix E – Photos	

I. INTRODUCTION

In accordance with conditions of Term Agreement D037815, Watts Architecture & Engineering (Watts), in conjunction with LaBella Associates, D.P.C. (LaBella), conducted an Asbestos-Containing Materials (ACM) Inspection of the E. Utica St. Bridge over Kensington Expressway (NY Route 33) (BIN 1022630) located in the City of Buffalo, Erie County, New York. The objective of the bridge inspection was to identify and sample suspect ACMs which may require abatement or removal prior to or during renovation of the structure, due to applicable regulations. The inspection was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

II. INSPECTION RESULTS

BIN 1022630 – E. Utica St. Bridge over Kensington Expressway (NY Route 33)

Confirmed Asbestos-Containing Materials (ACMs)

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain greater than 1% asbestos. The following table does not include all of the materials sampled during this inspection. For a full list of materials sampled, please refer to the Asbestos Bulk Sample Summary Table.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Retaining Wall Grey Caulk	Within Vertical Retaining Wall Joints (One at Each Corner of the Bridge)	80 LF (14 SF)	Non-Friable	Fair to Good	210.3411
Rail Post Grey Caulk	Base of Guard Rail Post on Top of Retaining Walls	3.66 LF (0.3 SF)	Non-Friable	Good	210.3411
Grey Sheet Packing	Between Deck & Tops of Abutments at Both Ends of Bridge	140 SF	Non-Friable	Good	210.3312
Utility Conduit Packing / Sealant	Perimeter of the 12" Natural Gas Utility Casing (8" Gas Utility Within the Casing) that Penetrates Through Each Abutment	6 LF (~1 SF)	Non-Friable	Poor to Fair	210.481101

ACM Project Specific Details

Retaining Wall Grey Caulk

A grey asbestos-containing caulking compound is located within the vertical joints of the retaining walls along both sides of the Kensington Expressway (Route 33) corridor. Although the material is not present within each joint, the material is located sporadically throughout the entire existing length (>1 mile) of the retaining walls.

During our inspection, a bead of asbestos-containing caulk was observed within close proximity (within a few feet) at each corner of the bridge. Each bead is approximately 2" thick and approximately 20 linear feet long. At each location, the ACM is located within the vertical joint that extends from the Kensington Expressway (Route 33) roadway surface up the entire retaining wall (approximately 18' high), and also extends along the horizontal surface (approximately 1.5') on top of the retaining wall. The top of the retaining wall is located at the E. Utica Street surface level and extends along the entire length of Humboldt Parkway.

While the amount of ACM associated with the entire retaining wall is significantly higher, it is estimated that the total amount of grey caulking compound associated with this structure is approximately 80 linear feet (14 square feet for NYSDOL reporting purposes). This quantity represents the four vertical joints located within close proximity to the bridge. The ACM was generally observed to be intact in most locations, however, some areas were observed where the asbestos-containing caulk was no longer intact within the vertical joint. The approximate locations of this material adjacent to the bridge are shown in FIGURE 2.

Rail Post Grey Caulk

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail base plates along both sides of the retaining walls that were described above. Each rectangular base plate is approximately 8" x 14" and has an approximate 1" thick bead of caulk around the perimeter. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall along E. Utica Street are of a different construction and do not have any associated ACMs. There is one guide rail base plate with asbestos-containing caulk present within a very close proximity to the bridge (within a few feet) at each corner of the bridge. While the amount of ACM associated with the entire retaining wall is significantly higher, it is estimated that the amount of grey caulking compound associated with the four total base plates is approximately 3.66 linear feet (0.3 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in FIGURE 2.

Grey Sheet Packing

Grey asbestos-containing sheet packing is located between the top of the abutments and the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of grey sheet packing on the bridge is approximately 140 square feet (approximately 70 square feet per abutment). The approximate locations of this material are shown in FIGURE 2.

Utility Conduit Packing / Sealant

An asbestos-containing packing/sealant was identified at each abutment penetration of the 12” utility conduit that contains an 8” gas line. The approximately 2.5” thick bead of packing/sealant is located around the perimeter of the conduit. The ACM was observed to be generally intact at the eastern abutment, however, at the western abutment, approximately half of the ACM was observed to be dislodged and laying on top of the abutment shelf. It is estimated that the total amount of asbestos-containing packing/sealant associated with the two abutment penetrations is approximately 6 linear feet (1.25 square feet for NYSDOL reporting purposes). The approximate locations of this material are shown in FIGURE 2.

Inaccessible Assumed ACMs

During the inspection, no inaccessible assumed ACM was identified.

III. INSPECTION PROCEDURES

The following procedures were used to obtain the data for this report:

- A. Review of information available via NYSDOT’s Bridge Data Information System (BDIS) and Record Plans made available by New York State Department of Transportation, Region 5.
- B. A visual inspection of the structure was performed to identify visible and accessible sources of the above referenced suspect ACMs. Observations and notes were made to provide a description of the structure, and estimate the approximate amount, length, or area of suspect ACM, if present. Photographs taken during this inspection are attached in Appendix E.
- C. Bulk samples of suspect ACMs were collected during the site inspection of the subject structure. In accordance with the NYSDOT Environmental Manual (TEM), three samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below.
- D. Asbestos samples were submitted for laboratory analysis. Preliminary Polarized Light Microscopy analyses of non-friable, organically bound (NOB) materials were performed by EMSL Laboratories, a NYSDOH accredited laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy analyses of NOB materials, if necessary, were also performed by EMSL Laboratories.
- E. Results of the laboratory analyses, field testing and the visual on-site inspection were compiled and summarized.

IV. INSPECTION LIMITATIONS

This inspection was conducted in accordance with generally accepted environmental engineering practices for this region. Collection of bulk samples of suspect ACMs was limited to those materials readily accessible using hand tools or hand-held power tools. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. Homogeneous materials were identified and located based on visual observation from readily accessible points. The data derived from representative samples of any given homogeneous

material represent conditions that apply only at that particular location. Inspection protocol and methodology requires that sample data be used to draw conclusions about the entire homogeneous area, but such conclusions may not necessarily apply to the general structure as a whole.

No sub-surface investigation was performed by LaBella or Watts to determine the possible presence of suspect ACMs or underground utilities in the immediate vicinity of the structure as all surrounding areas are covered with a concrete and/or asphalt surface.

Applicable utility companies were contacted to request information regarding the presence of any known ACMs associated with their utilities located at the bridge. No additional ACM information was obtained.

LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, or reports. No asbestos inspection can wholly eliminate the uncertainty regarding the potential for undiscovered ACMs. The work performed by Watts and LaBella is intended to reduce, but not eliminate, uncertainty regarding the potential for ACMs at the site.

This asbestos inspection report is not intended to be a bid document for an abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 for asbestos inspections.

V. CONCLUSIONS AND RECOMMENDATIONS

Although asbestos-containing materials are located on the bridge, it is unknown whether the upcoming bridge rehabilitation project will impact these materials. As such, if any identified ACM is to be impacted for any reason, disturbance must be considered an asbestos project and completed by a licensed asbestos contractor in accordance with all applicable regulations. Furthermore, if the ACMs are to be impacted by the upcoming project, the final Project Proposal should include the following:

1. Specification Item Nos. and quantities of ACMs as listed in this report
2. Special Asbestos Removal Notes, if necessary
3. A notation that this Asbestos Survey Report is available to bidders

Under the provisions of our Asbestos Assessment Term Agreement, LaBella Associates is available to review the final asbestos portion of the design package and assist Region 5 personnel in developing Special Notes, if necessary.

None of the paints associated with this bridge were tested in an effort to identify lead-based paint. It is recommended that the potential presence of the lead associated with the bridge paints be conveyed to any contractor or DOT employee prior to any work related activities that may disturb this material.

Asbestos Bulk Sample Summary Table

Asbestos Bulk Sample Summary Table

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5813.75.121

Items in Bold are Confirmed ACM

Sample #	Type of Material	Sample Location	Results % Asbestos
1022630-01	Retaining Wall Grey Caulk	NE Retaining Wall Vertical Joint	6.2% Chrysotile
1022630-02	Retaining Wall Grey Caulk	NW Retaining Wall Vertical Joint	Positive Stop (Not Analyzed)
1022630-03	Retaining Wall Grey Caulk	SW Retaining Wall Vertical Joint	Positive Stop (Not Analyzed)
1022630-04	Rail Post Grey Caulk	Top of Retaining Wall, NE Corner	7.1% Chrysotile
1022630-05	Rail Post Grey Caulk	Top of Retaining Wall, NW Corner	Positive Stop (Not Analyzed)
1022630-06	Rail Post Grey Caulk	Top of Retaining Wall, SW Corner	Positive Stop (Not Analyzed)
1022630-07	Curb/Knee Wall Grey Caulk	North Side of Bridge, East End	None Detected
1022630-08	Curb/Knee Wall Grey Caulk	North Side of Bridge, West End	None Detected
1022630-09	Curb/Knee Wall Grey Caulk	South Side of Bridge, West End	None Detected
1022630-10	Abutment/Retaining Wall Joint Filler	NW Corner	None Detected
1022630-11	Abutment/Retaining Wall Joint Filler	NW Corner	None Detected
1022630-12	Abutment/Retaining Wall Joint Filler	NW Corner	None Detected
1022630-13	Sidewalk/Back of Retaining Wall Joint Filler	NW Sidewalk	None Detected
1022630-14	Sidewalk/Back of Retaining Wall Joint Filler	NW Sidewalk	None Detected
1022630-15	Sidewalk/Back of Retaining Wall Joint Filler	NW Sidewalk	None Detected

Asbestos Bulk Sample Summary Table

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5813.75.121

Items in Bold are Confirmed ACM

Sample #	Type of Material	Sample Location	Results % Asbestos
1022630-16	Bituminous Tar	NE Sidewalk	None Detected
1022630-17	Bituminous Tar	NW Sidewalk	None Detected
1022630-18	Bituminous Tar	SE Sidewalk	None Detected
1022630-19	Grey Bridge/Girder Paint	North Girder, West End	None Detected
1022630-20	Grey Bridge/Girder Paint	South Girder, West End	None Detected
1022630-21	Grey Bridge/Girder Paint	Middle Girder, East End	None Detected
1022630-22	Bearing Pad	North Girder, West End	None Detected
1022630-23	Bearing Pad	South Girder, West End	None Detected
1022630-24	Bearing Pad	North Girder, East End	None Detected
1022630-25	Masonry Coating	Middle Girder, East End	None Detected
1022630-26	Masonry Coating	Middle Girder, East End	None Detected
1022630-27	Masonry Coating	South Girder, West End	None Detected
1022630-28	Sheet Packing	Top of Abutment, SE Corner	30% Chrysotile
1022630-29	Sheet Packing	Top of Abutment, SE Corner	Positive Stop (Not Analyzed)
1022630-30	Sheet Packing	Top of Abutment, SW Corner	Positive Stop (Not Analyzed)

Asbestos Bulk Sample Summary Table

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33)
City of Buffalo, Erie County, New York
P.I.N. 5813.75.121

Items in Bold are Confirmed ACM

Sample #	Type of Material	Sample Location	Results % Asbestos
1022630-31	Utility Conduit Packing/Sealant	Large Utility Pipe, East End at Abutment	6.8% Chrysotile
1022630-32	Utility Conduit Packing/Sealant	Large Utility Pipe, East End at Abutment	Positive Stop (Not Analyzed)
1022630-33	Utility Conduit Packing/Sealant	Large Utility Pipe, West End at Abutment	Positive Stop (Not Analyzed)

Appendix A
Asbestos Inspection Fact
Sheet

Asbestos Inspection Fact Sheet

Name and Address of Building/Structure

East Utica Street Bridge Over Kensington _____

Expressway (NY Route 33) (BIN 1022630) _____

City of Buffalo, Erie County, New York _____

Name and Address of Building/Structure Owner

New York State Department of Transportation _____

50 Wolf Road _____

Albany, New York 12232 _____

Name and Address of Owner's Agent

LaBella Associates, D.P.C. _____

300 State Street, Suite 201 _____

Rochester, New York 14614 _____

Name of the Firm & Persons Conducting the Inspection

Watts Architecture & Engineering _____

Matthew E. Holquist (NYSDOL Cert #01-08239) _____

Robert S. Swick (NYSDOL Cert #20-05731) _____

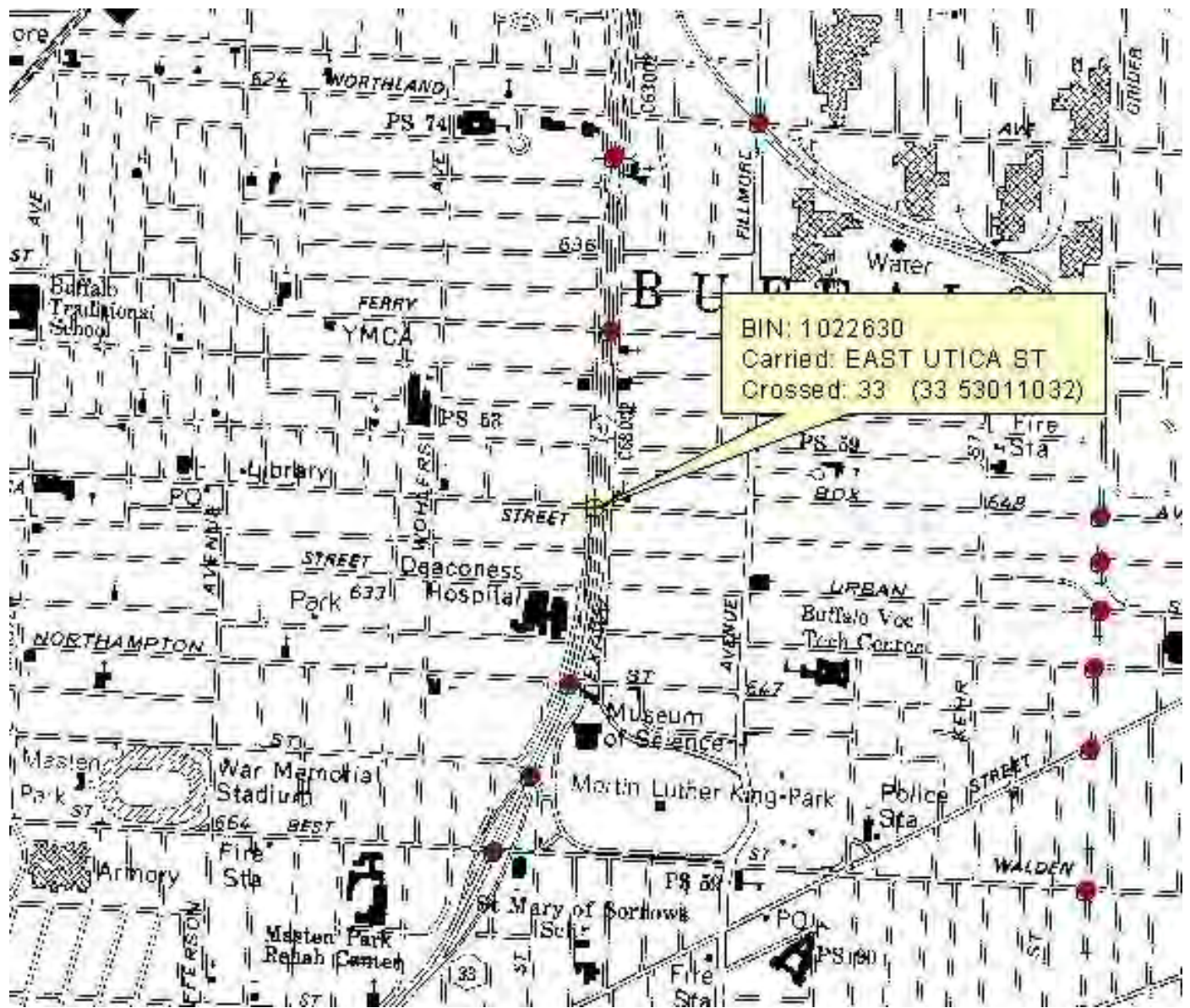
William G. Coyle (NYSDOL Cert #17-39003) _____

Date the Inspection Was Conducted


February 23, 2022 and April 12, 2022 _____

Appendix B

Figures



SOURCE: NYSDOT BDIS


**WATTS
ARCHITECTURE
& ENGINEERING**
 95 Perry Street, Suite 300
 Buffalo, New York 14203
 (716) 206-5100 | (716) 206-5199 Fax

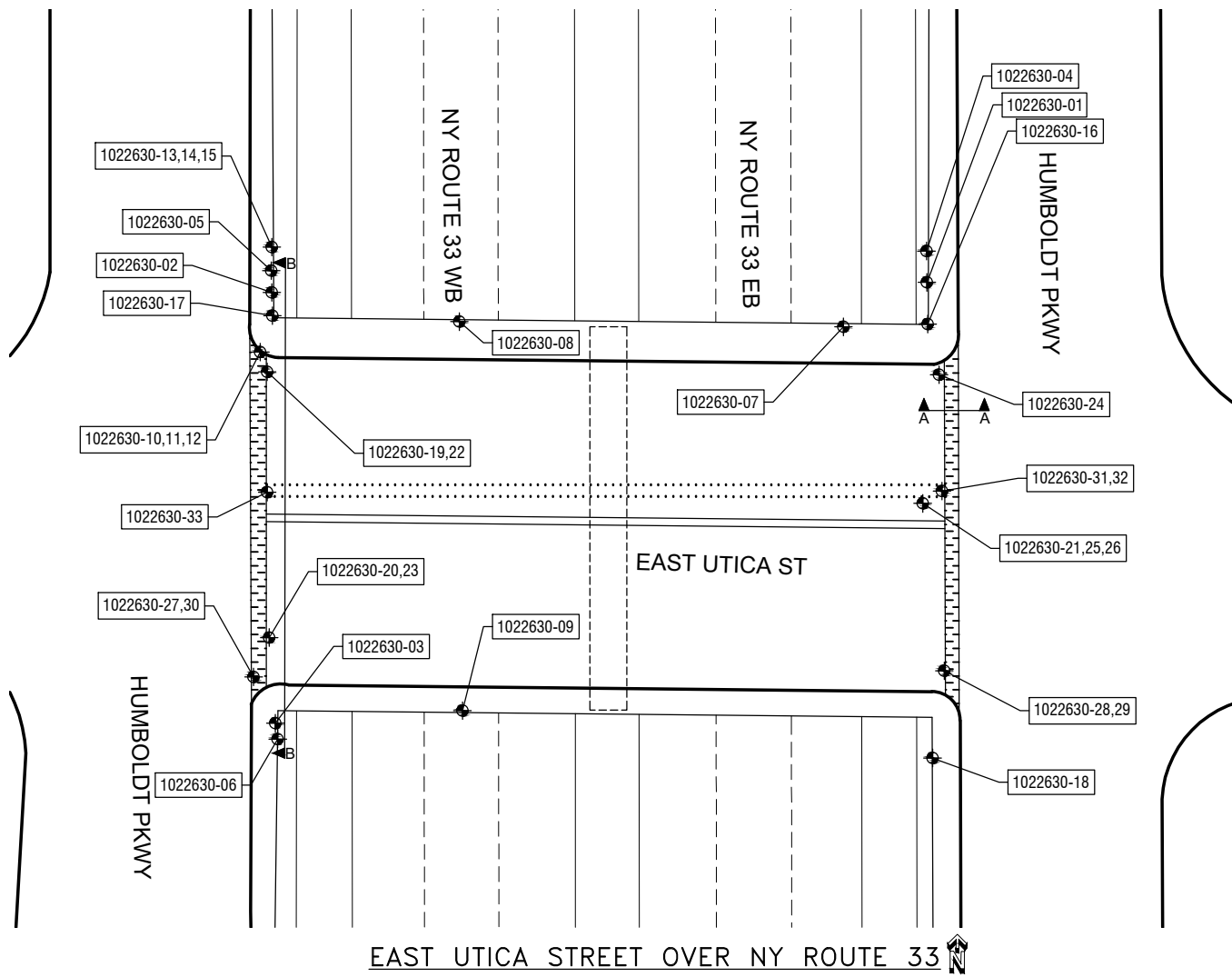


DRAWING NO.
FIGURE 1
 SITE LOCATION MAP

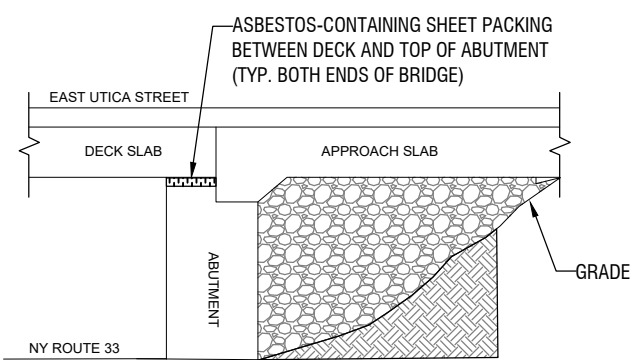
ASBESTOS-CONTAINING MATERIALS INSPECTION
 EAST UTICA STREET BRIDGE OVER
 KENSINGTON EXPRESSWAY (NY ROUTE 33)
 CITY OF BUFFALO, NEW YORK
 BIN 1022630

PROJECT NO.	2190777
PIN	5813.75.121
SCALE	NOT TO SCALE
DATE:	APRIL 2022

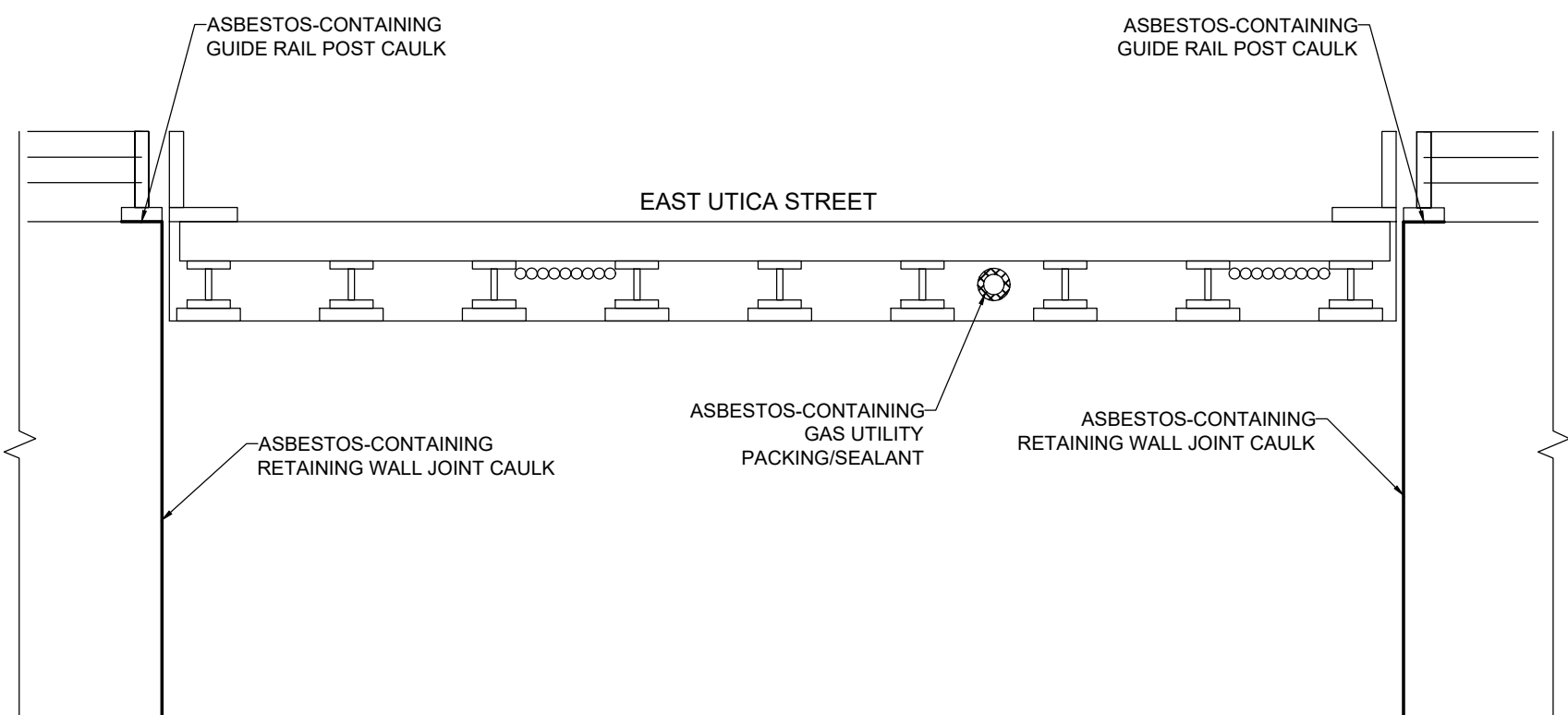







EAST UTICA STREET OVER NY ROUTE 33




SECTION A-A (TYPICAL)



SECTION B-B (TYPICAL)

- LEGEND**
-  ASBESTOS-CONTAINING SHEETPACKING
 -  ASBESTOS-CONTAINING GAS UTILITY PACKING/SEALANT
 -  ASBESTOS-CONTAINING CAULK

SAMPLES WERE COLLECTED ON FEBRUARY 23 AND APRIL 12, 2022.
 ◆ INDICATES APPROXIMATE SAMPLE LOCATION

 <p>Watts Architects & Engineers 95 Perry Street, Suite 300 Buffalo, New York 14203 (716) 206-5100 (716) 206-5199 Fax</p>	<p>FIGURE 2 ASBESTOS BULK SAMPLE LOCATIONS BIN 1022630</p>
	<p>EAST UTICA STREET OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK</p>

R:\2019\1911313 Rtes 33 at 198 Brdg\18_CADD\Aeb\SU-Aeb.dwg Apr. 26, 2022, 4:50pm

Appendix C
Laboratory Analytical
Report



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 1911313 / PIN 5813.75.121, E. Utica St. Over Rt 33, Buffalo, Erie Co., NY / BIN 1022630

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 04/14/2022 4:20 PM
Analysis Date: 04/18/2022
Collected Date: 04/14/2022

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-01 142201258-0001		Description	Retaining Wall Grey Caulk		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray	None	93.80% Other	6.20% Chrysotile
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-02 142201258-0002		Description	Retaining Wall Grey Caulk		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-03 142201258-0003		Description	Retaining Wall Grey Caulk		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-04 142201258-0004		Description	Rail Post Grey Caulk		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray	None	92.90% Other	7.10% Chrysotile
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-05 142201258-0005		Description	Rail Post Grey Caulk		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-06 142201258-0006		Description Homogeneity	Rail Post Grey Caulk		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-07 142201258-0007		Description Homogeneity	Curb/Knee Wall Grey Caulk		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Gray		100.00% Other	None Detected
Sample ID 1022630-08 142201258-0008		Description Homogeneity	Curb/Knee Wall Grey Caulk		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Gray		100.00% Other	None Detected
Sample ID 1022630-09 142201258-0009		Description Homogeneity	Curb/Knee Wall Grey Caulk		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Gray		100.00% Other	None Detected
Sample ID 1022630-10 142201258-0010		Description Homogeneity	Abutment/Retaining Wall Joint Filler		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-11 142201258-0011		Description Homogeneity	Abutment/Retaining Wall Joint Filler		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-12 142201258-0012		Description	Abutment/Retaining Wall Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-13 142201258-0013		Description	Sidewalk/Back of Retaining Wall Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-14 142201258-0014		Description	Sidewalk/Back of Retaining Wall Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-15 142201258-0015		Description	Sidewalk/Back of Retaining Wall Joint Filler		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-16 142201258-0016		Description	Bituminous Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-17 142201258-0017		Description	Bituminous Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-18 142201258-0018		Description	Bituminous Tar		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Black		100.00% Other	None Detected
Sample ID 1022630-19 142201258-0019		Description	Grey Bridge/Girder Paint		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022630-20 142201258-0020		Description	Grey Bridge/Girder Paint		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022630-21 142201258-0021		Description	Grey Bridge/Girder Paint		
		Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022630-22 142201258-0022		Description	Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Black		100.00% Other	None Detected
Sample ID 1022630-23 142201258-0023		Description	Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Black		100.00% Other	None Detected

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-24 142201258-0024		Description	Bearing Pad		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	04/18/2022	Brown/ Black		100.00% Other	None Detected
Sample ID 1022630-25 142201258-0025		Description	Masonry Coating		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022630-26 142201258-0026		Description	Masonry Coating		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022630-27 142201258-0027		Description	Masonry Coating		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022630-28 142201258-0028		Description	Sheet Packing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray	None	70.00% Other	30.00% Chrysotile
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-29 142201258-0029		Description	Sheet Packing		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022630-30 142201258-0030		Description	Sheet Packing		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-31 142201258-0031		Description	Utility Conduit Packing/Sealant		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022	Gray/ Black	None	93.20% Other	6.80% Chrysotile
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-32 142201258-0032		Description	Utility Conduit Packing/Sealant		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed
Sample ID 1022630-33 142201258-0033		Description	Utility Conduit Packing/Sealant		
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	04/18/2022				Not Analyzed

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142201258
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 4/14/2022
Analysis Completed Date: 4/18/2022

Sample Receipt Time: 4:20 PM
Analysis Completed Time: 8:51 AM

Analyst(s):

Margo Burgio PLM NYS 198.1 Friable (2)

Shauna LaValley PLM NYS 198.1 Friable (1)

Margo Burgio PLM NYS 198.6 NOB (22)

Tom Hanes TEM NYS 198.4 NOB (18)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project

142201258

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: New York State Department of Transportation
Project: PIN 5813.75.121, E. Utica St. over Rt 33, Buffalo, Erie Co., NY
Building / Location: BIN 1022630
Contact: Matt Holquist at **(716) 435-1724**
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: **Watts Architecture & Engineering**
95 Perry Street, Buffalo, NY 14203

Date: 4/14/22
Watts Project No.: 1911313

Analysis Requested: Turnaround Time Requested:
ELAP 198.1 (Friable PLM) X 24 Hr. 5 Day
ELAP 198.6 (NOB PLM) X 48 Hr. X 1 Week
ELAP 198.4 (NOB TEM) X 72 Hr. 2 Weeks
Other (Specify) _____ 96 Hr. _____

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
1022630-25	Masonry Coating	9	Middle Girder, East End		
1022630-26	Masonry Coating	9	Middle Girder, East End		
1022630-27	Masonry Coating	9	South Girder, West End		
1022630-28	Sheet Packing	10	Top of Abutment, SE Corner		
1022630-29	Sheet Packing	10	Top of Abutment, SE Corner		
1022630-30	Sheet Packing	10	Top of Abutment, SW Corner		
1022630-31	Utility Conduit Packing/Sealant	11	Large Utility Pipe, East End at Abutment		
1022630-32	Utility Conduit Packing/Sealant	11	Large Utility Pipe, East End at Abutment		
1022630-33	Utility Conduit Packing/Sealant	11	Large Utility Pipe, West End at Abutment		

Sampled By: Matthew E. Holquist *Matthew E. Holquist* Date: 4/14/22 Time: 12:00 Received By: Sharon LaValley wz Date: 4/14/22 4:20PM
Relinquished By: Matthew E. Holquist *Matthew E. Holquist* Date: 4/14/22 Time: 12:00 Received By: _____ Date: _____

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

Appendix D

Licenses and Certifications



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/22/2021
EXPIRATION DATE: 09/30/2022

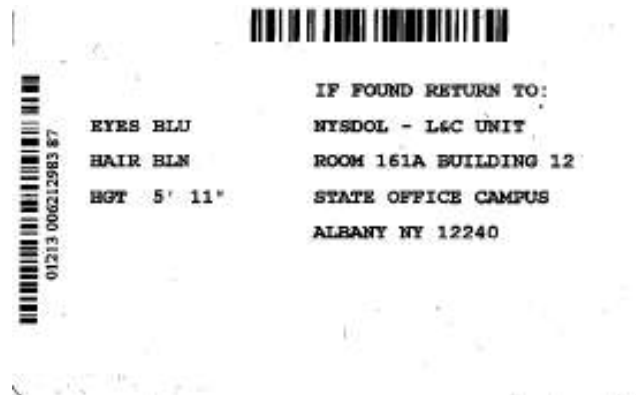
Duly Authorized Representative – Edward Watts:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

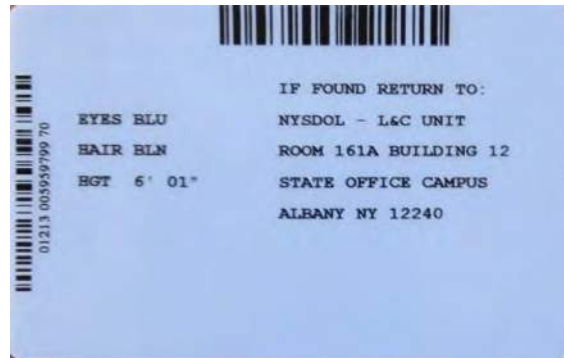
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



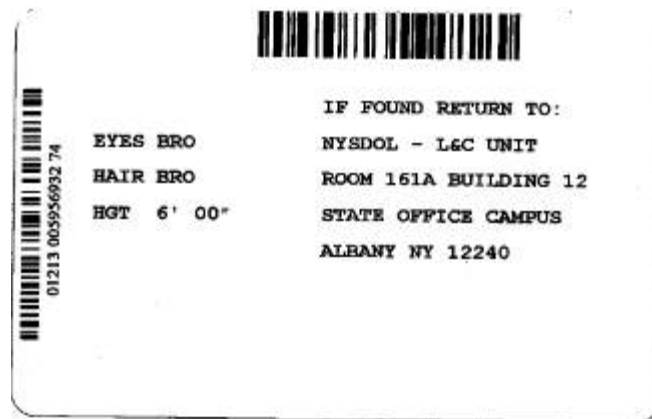
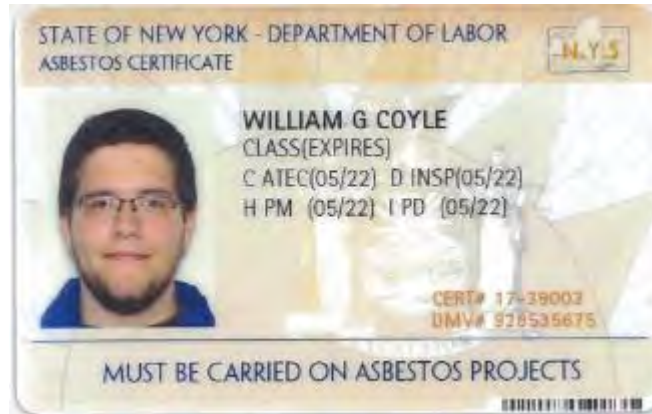
Matthew E. Holquist

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer



Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

Appendix E

Photos



Photo 1 – View looking east at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)).



Photo 2 – View looking north at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)).



Photo 3 – View looking south at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)). MPT was necessary in order to inspect the underside of the bridge.



Photo 4 – View of the grey sheet packing that has been identified as an ACM at BIN 1022630.



Photo 5 – View of the 12” metal conduit associated with the 8” gas utility line where it penetrates the east abutment of BIN 1022630. The packing/sealant around the perimeter of the 12” conduit where it penetrates each abutment has been identified as an ACM.



Photo 6 – View of the degraded asbestos-containing packing/sealant associated with the gas utility conduit at the west abutment of BIN 1022630.



Photo 7 – View facing east at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post base grey caulk have both been identified as an ACM. The retaining wall caulk is degraded in places.



Photo 8 – View facing north at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post base grey caulk have both been identified as an ACM.



Photo 9 – View facing west at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post grey caulk have both been identified as an ACM. The retaining wall caulk is located along the vertical and horizontal face of the retaining wall.



Photo 10 – View of the curb/knee wall along the north side of BIN 1022630. No ACM was identified in association with the associated concrete expansion joint caulk, guide rail, or fence posts.

Asbestos-Containing Materials Inspection

FOR

BIN 1022640
E Ferry Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates
300 State St #201
Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5
100 Seneca Street
Buffalo, NY 14203

PIN – 5512.52.123
D038277

Watts Project No. 20220255
August 2023, Revised September 2023

Submitted by:

Watts
Architects
&Engineers



Watts Project Contact and Asbestos Fact Sheet



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Name and Address of Building/Structure

BIN 1022640 - E Ferry Street Bridge over
Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers
Matthew E. Holquist (NYS DOL Cert #01-08239)
Robert S. Swick (NYS DOL Cert #20-05731)
William G. Coyle (NYS DOL Cert #17-39002)

Date(s) the Inspection Was Conducted

May 10 & 23, 2023

Table of Contents

Watts Project Contact and Asbestos Fact Sheet	i
Table of Contents	ii
1.0 / Introduction	1
2.0 / Inspection Results	1
3.0 / Inspection Procedures	5
4.0 / Inspection Limitations	6
5.0 / Conclusions and Recommendations	6
Asbestos Bulk Sample Summary Table.....	8

Appendices

Appendix A – Photos

Appendix B – Figures

 Figure 1 – Project Location Map

 Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan
and Project Information

1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the E Ferry Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022640) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 – Dodge Street Bridge over NYS Route 33
- BIN 1022620 – Northampton Street Bridge over NYS Route 33
- BIN 1022630 – East Utica Street Bridge over NYS Route 33
- BIN 1022640 – East Ferry Street Bridge over NYS Route 33
- BIN 1022609 – Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected a total of twelve (12) bulk samples to represent the four (4) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022640 – E Ferry Street Bridge over Kensington Expressway (NYS Route 33).

Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYS DOT Specification Item No.
Grey / Black Sheet Packing	Between Deck and Abutment at both ends of Bridge	128 SF	Non-Friable	Good	210.3312
Black Bearing Pad	Between Bearing and Concrete Bearing Support	237 SF	Non-Friable	Good	210.3312
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

Confirmed ACM Details

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

Dark Grey Sheet Packing

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2014 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 128 square feet (approximately 64 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

Black Bearing Pad

The asbestos-containing black bearing pads associated with this bridge were previously tested and identified as an ACM during the 2014 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Asbestos-containing black bearing pads are located between each metal bridge bearing and the concrete bearing pedestal at every bearing location at both bridge abutments and the center pier. There are a total of 9 metal girders with 3 bearings for each girder, totaling 27 bearing pads. The previous report estimated that the total amount of this asbestos-containing bearing pad material at the bridge is approximately 237 square feet. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**.

Abutment / Retaining Wall Caulking

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases associated with this bridge was previously tested and identified as an ACM during the 2014 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

This ACM has also been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella

involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information.**

Inaccessible Assumed ACM

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

Inaccessible Assumed ACM Details

Waterproofing – Item 61 – Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1’ on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information.**

The 2014 Asbestos Survey Report identified the additional following two (2) Inaccessible/Assumed ACM as possibly being present at the East Ferry Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022640):

- Asbestos-containing caulking surrounding steel conduits buried within the concrete sidewalk on both sides of the bridge.
- Asbestos-containing tar coating associated with the 12-inch casing surrounding the 8-inch gas utility lines.

Record plans indicate that there are steel utility conduits buried within the concrete sidewalk on both sides of the bridge. While suspect asbestos-containing caulking potentially could be located around the expansion sleeves of the conduits buried in the sidewalks, no caulking or sealant was specifically called out within the construction documents, nor has it been observed during any of the field inspections. In addition, the same record plans indicate that there is an 8-inch gas utility line with a 12-inch casing. While suspect asbestos-containing tar coating could be located on the gas utility, none was called out within the construction documents, nor has it been observed during any of the field inspections. Without further information confirming that these suspect asbestos-containing materials are actually located at the bridge, they are no longer considered an Inaccessible/Assumed ACM. If additional information is obtained regarding their potential presence, or if these items are observed during construction, they must be assumed to be an ACM until testing can prove otherwise.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A – Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

- Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.
- Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.
- Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- **Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 128 square feet (64 square feet each side) of dark grey sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022640.
- **Black Bearing Pad (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot)** – Approximately 237 square feet (27 total bearing pads at 8.78 square feet each) of black bearing pad is located between each metal bridge bearing and the concrete bearing pedestal at every bearing location at both bridge abutments and the center pier at BIN 1022640.
- **Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos-containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.
- **Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot)** – Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- **Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot)** – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.

Asbestos Bulk Sample Summary Table

BIN 1022640 – E Ferry Street Bridge over Kensington Expressway (NYS Route 33)
 City of Buffalo, Erie County, New York
 P.I.N. 5512.52.123

Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022640-01	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022640-02	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-03	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-04	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022640-05	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-06	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-07	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, South Side Sidewalk	None Detected
1022640-08	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, North Side Sidewalk	None Detected
1022640-09	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, North Side Sidewalk	None Detected
1022640-10	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected
1022640-11	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected
1022640-12	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected

Appendix A

Photos



Photo 1 - View towards the southeast of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640). The retaining wall ACMs (expansion joint caulking and railing post caulking) are visible within the photo.



Photo 2 - View of the BIN plate located at the southwest corner of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640).



Photo 3 - View to the south from the southwest corner of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640), with the highway retaining walls and East Utica Street over Kensington Expressway Bridge (BIN 1022630) visible in the background.



Photo 4 - View to the southern side of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640).



Photo 5 – Asbestos-containing railing post base caulk located at the top of the retaining walls near BIN 1022640. This ACM is present throughout the northern portion of the project corridor.



Photo 6 – View of the southern side of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640). Photo taken during the night-time inspection that occurred after closing the EB Kensington Expressway.



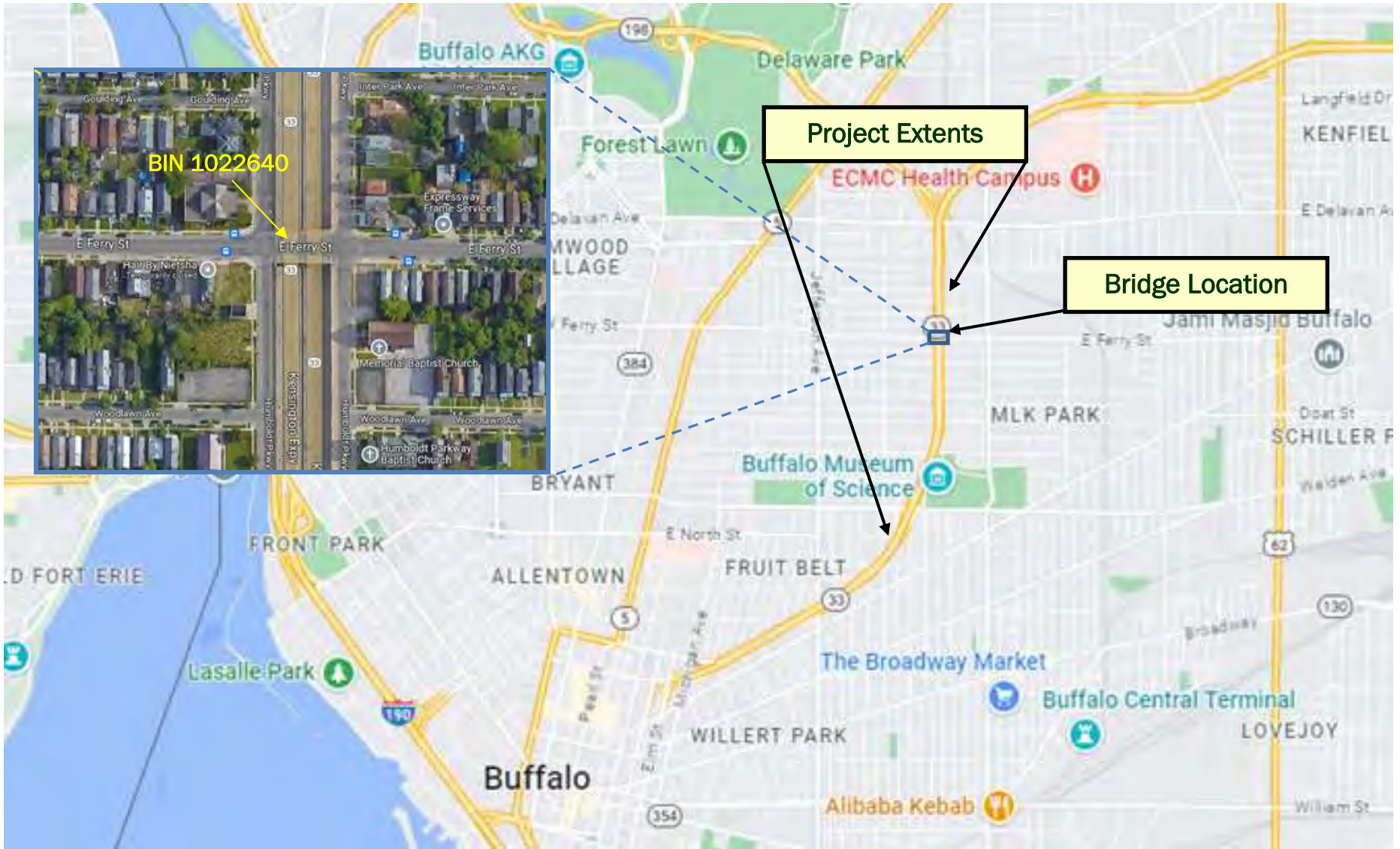
Photo 7 - Asbestos-containing railing post base caulk is associated with all of the metal guidrails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



Photo 8 - Asbestos-containing railing post base caulk is associated with all of the metal guidrails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

Appendix B

Figures



Project Location

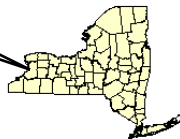


FIGURE 1 - PROJECT LOCATION MAP

E Ferry Street over Kensington Expressway (Rt 33)
BIN 1022640
City of Buffalo, Erie County, New York

Not to Scale

June 2023

Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
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EMSL Order: 142302264
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matthew Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022640/East Ferry over Kensington (Rt. 33)

Phone: (716) 206-5100
Fax: (716) 206-5199
Received Date: 05/23/2023 3:36 PM
Analysis Date: 05/30/2023 - 05/31/2023
Collected Date: 05/23/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022640-01 142302264-0001		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022640-02 142302264-0002		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022640-03 142302264-0003		Description	Grey Caulk at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022640-04 142302264-0004		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown		100.00% Other	None Detected
Sample ID 1022640-05 142302264-0005		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown		100.00% Other	None Detected

Initial report from: 05/30/2023 14:18:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302264
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022640-06 142302264-0006		Description	Joint Filler at Pier Barrier Wall Joints		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown		100.00% Other	None Detected
Sample ID 1022640-07 142302264-0007		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022640-08 142302264-0008		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022640-09 142302264-0009		Description	Dark Gray Deck Expansion Joint Sealer		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022640-10 142302264-0010		Description	2" Fiber Conduit (DOT Item 412A)		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Black		100.00% Other	None Detected
Sample ID 1022640-11 142302264-0011		Description	2" Fiber Conduit (DOT Item 412A)		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Black		100.00% Other	None Detected

Initial report from: 05/30/2023 14:18:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302264
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 1022640-12 142302264-0012		Description	2" Fiber Conduit (DOT Item 412A)		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Black		100.00% Other	None Detected

Initial report from: 05/30/2023 14:18:05



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142302264
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 5/23/2023
Analysis Completed Date: 5/30/2023

Sample Receipt Time: 3:36 PM
Analysis Completed Time: 1:54 PM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (12)

Tom Hanes TEM NYS 198.4 NOB (12)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/30/2023 14:18:05

Appendix D

License(s)
And
Certification(s)



New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street
Buffalo, NY 14203

FILE NUMBER: 12-68007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2023

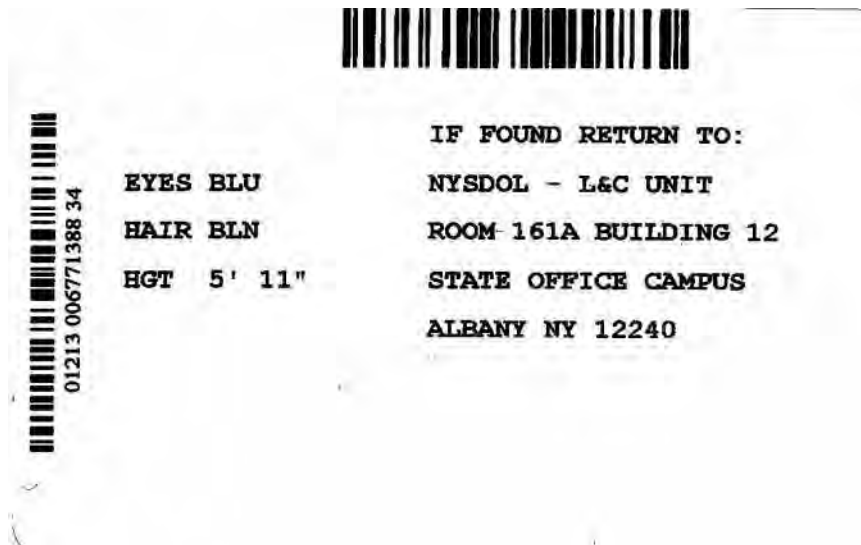
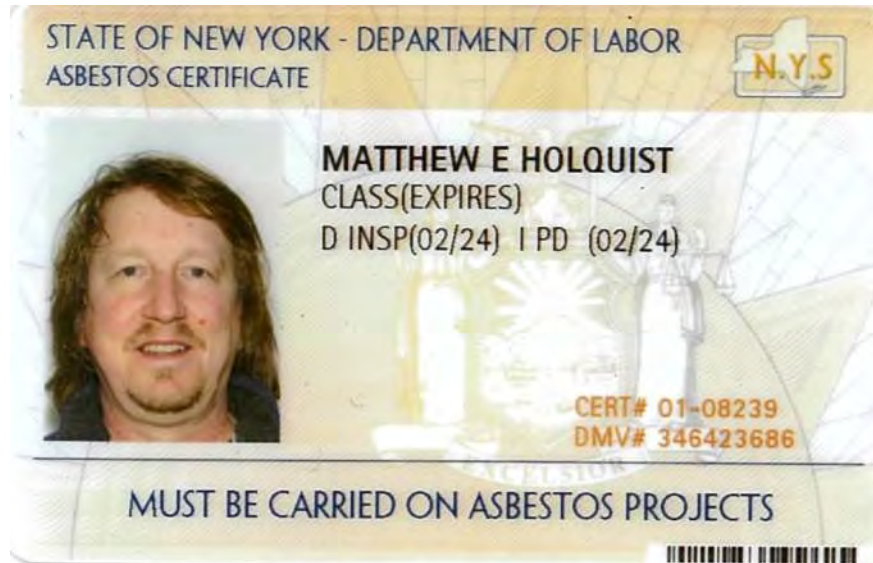
Duly Authorized Representative – Kevin Janik:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

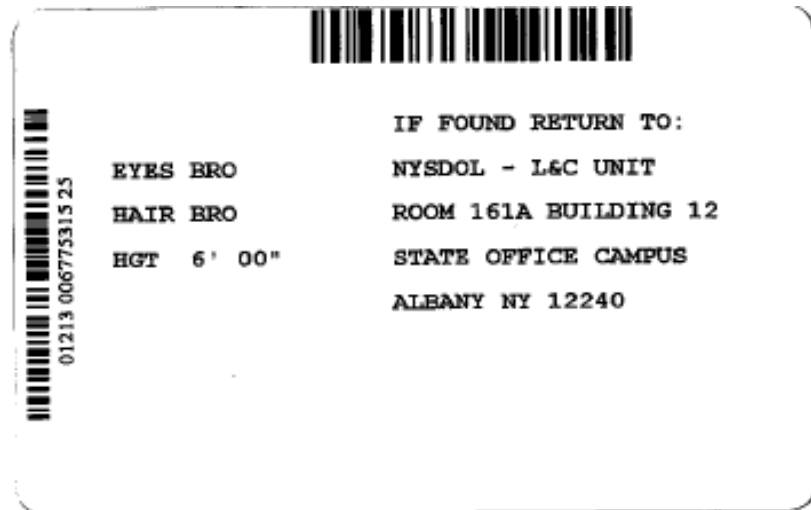
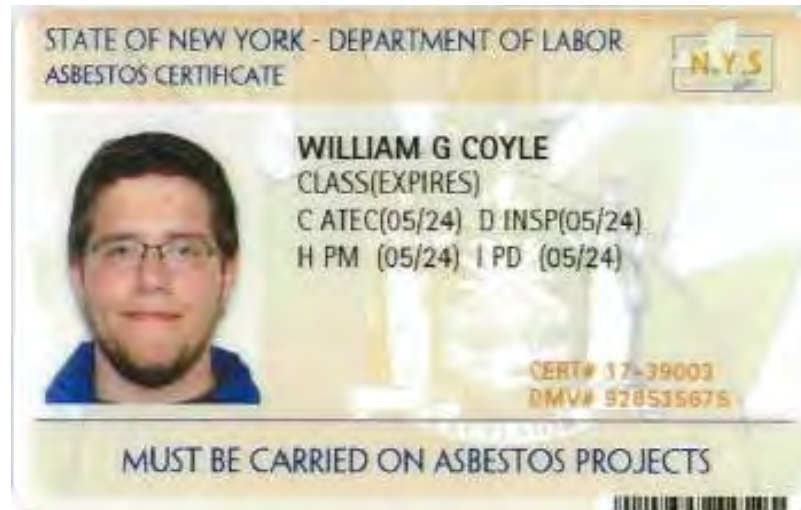
Amy Phillips, Director
For the Commissioner of Labor

SH 432 (8/12)



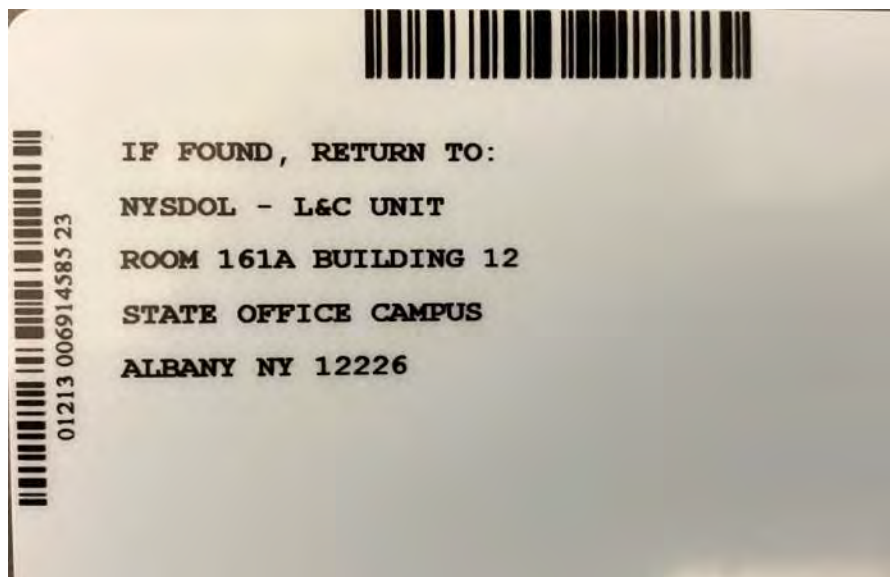
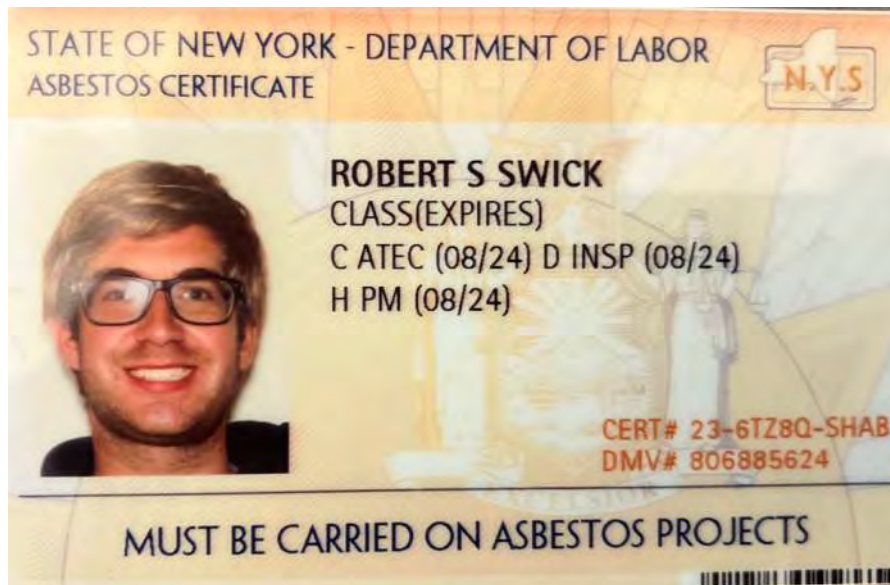
Matthew E. Holquist

D - Inspector
I - Project Designer



William Coyle

- C - Air Sampling Technician
- D - Inspector
- H - Project Monitor
- I - Project Designer

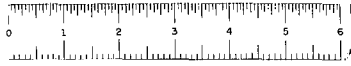


Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor

Appendix E

Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

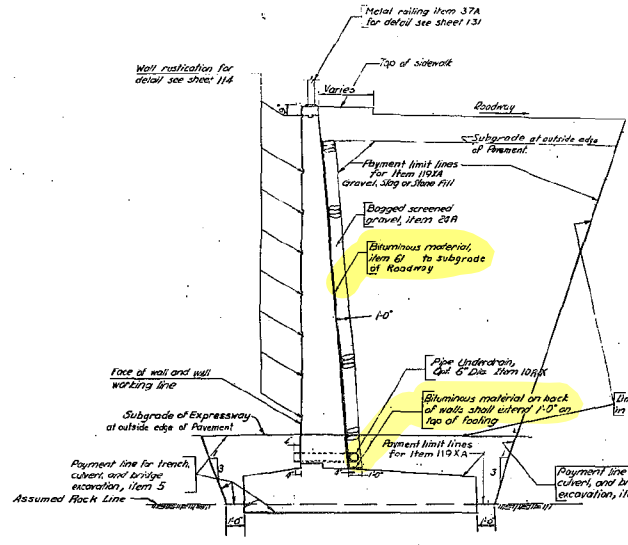


F.A.C. 59-19					
FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(1)	53	132	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

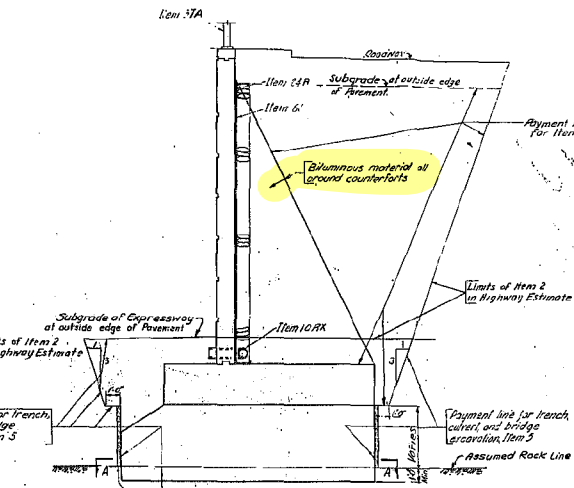
GENERAL NOTES FOR WALLS

- Design is based on 1953 Specifications of A.A.S.H.O. (modified).
- See plans and elevations of walls on wall sheets, for location and extent of wall sections, elevations of bottom of footings, location of all joints, setting layout, piles and rustication pattern.
- All concrete for wall construction is Item 185 unless otherwise indicated on sections.
- All splices shall be 40 diameters minimum.
- Minimum clear spacing of bars must be 2".
- Before placing concrete, proper provision shall be made for any anchor bolts, utilities, drainage, expansion and contraction joint details, etc. as required.
- All expansion joints in walls, as shown on plans, are to be 1/2" unless otherwise indicated; as detailed on sheet No. 114.
- All longitudinal bars shall run continuous between contraction joints unless otherwise shown, and shall end 2' clear from the joints.
- The design of footings without piles is based on an allowable bearing pressure of 8 tons per sq. ft. on rock, and 1.3 tons per sq. ft. on soil.
- Backfill must be placed simultaneously against both sides of all walls.
- For locations where 6" diameter pipe underdrain is used, see plans and elevations of walls.
- Payment lines for excavation as shown on the wall sections are to be typical for all wall sections.
- Pile footings are based on allowable pile loading of 37 tons per pile.
- Piles shown battered are on 4 on 1 in direction, indicated on plan of footing and in sections.
- Design of footings shown may be changed as required, as directed by the Deputy Chief Engineer, after excavation is made and subsurface conditions determined. If piles are required where not shown, revised footing details will be furnished by the Engineer.
- All radii and dimensions are given along the working line face of wall unless otherwise noted.
- Conditions: Piers under footing to be individual, pour footing to be individual pour; counterfort and wall to be poured monolithically.
- All cement used in the concrete items for walls shall be Portland Cement Type 2, Item 15-2, with Duxer A.E.A. (Air Entraining Agent) added. Duxer A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the water at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Duxer A.E.A. dispenser. The amount of Duxer A.E.A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 5% minimum and 5% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer. The cost of finishing and adding the Duxer A.E.A. and all the labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete item.
- The design of all wall sections is based on a certain height (from bottom of footing to top of wall) with 2'-0" intervals. The maximum height of the walls is indicated by the number of the wall section. For example: T-20 is to be used for heights varying from 16'-0" to 20'-0". If during construction, existing subsurface conditions make it necessary to lower or raise a wall beyond the limits, etc. called for wall section, the next lower or higher wall section shall be used, if ordered by Engineer.
- Minimum cover for reinforcement is 2" unless otherwise noted.
- All piles to be steel bearing H-piles (10" B.P. 42).
- A reinforcing detailer shall be used in Item 165, T-20's.
- FOOTING ON ROCK: All disintegrated or shattered material shall be removed to lines and levels ordered by the Engineer. Where sound rock is found below the planned levels of the bottom of footings, a layer of Class 1 concrete Item 203 shall be installed to the levels shown on the plans, or as directed by the Engineer. Rock removed for the levels directed by the Engineer and outside the footings must be replaced by backfill of Class 1 concrete for walls. Subgrade of Service Road - no payment will be made at outside edge of pavement.



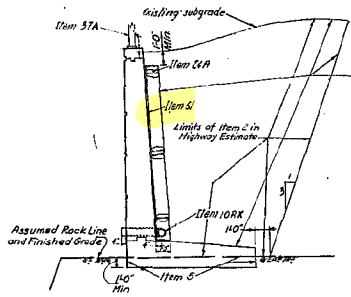
TYPICAL T-WALL SECTION IN ROCK

NOTE: Cost of pipe drain thru wall included in concrete item.



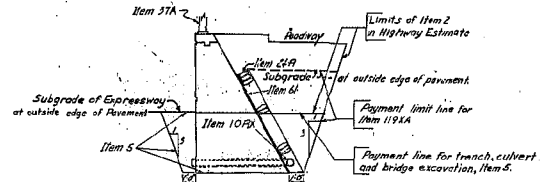
TYPICAL G-WALL SECTION

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



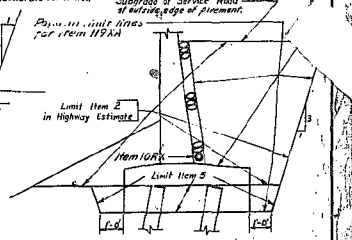
TYPICAL L-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in Wall section in earth.



TYPICAL T-WALL SECTION IN ROCK

NOTE: General information not shown on this section to be similar to information shown in wall section in earth.

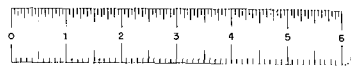


TYPICAL T-WALL SECTION ON PILES

GENERAL NOTES & PAYMENT-LINES FOR WALLS			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS			
CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHER & BRILL	ENGINEERS-ARCHITECTS	DRAWN BY	CHECKED BY
		P. O. 25	
302 E. 44th ST. NEW YORK 17, N.Y.		TRACED	

SHEET NO. 132

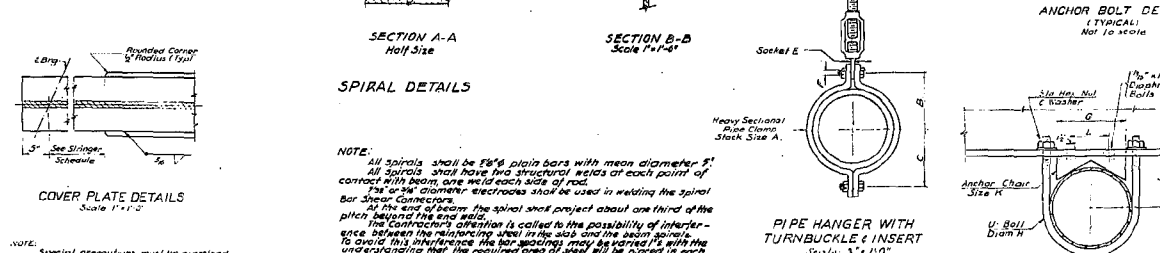
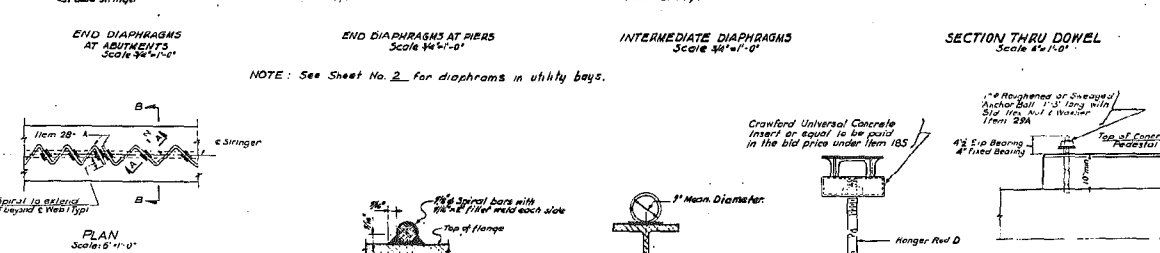
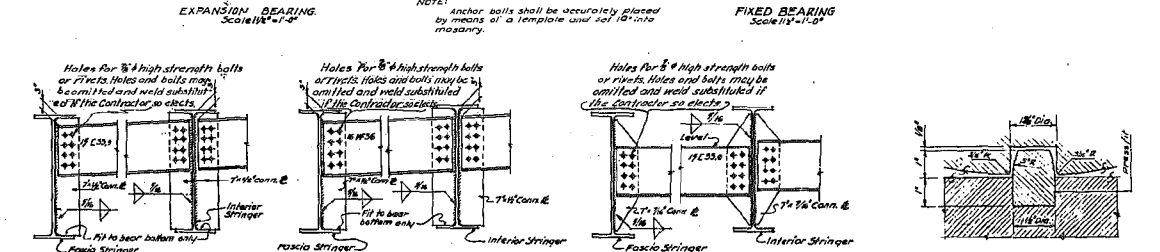
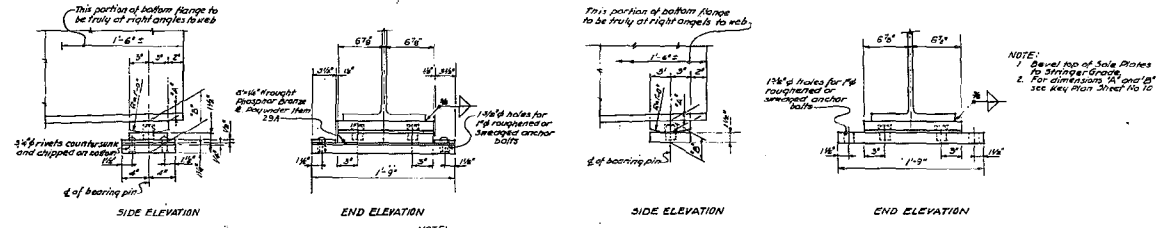
NO AS BUILT REVISIONS



FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N. Y.	U-372(U)		167	178
KENSINGTON EXPRESSWAY - SEC. NO. 1					

CONTRACT II

GENERAL NOTES
 DESIGN SPECIFICATIONS: A.A.S.H.O 1953 modified (loading H 20-44)
 MATERIALS & FABRICATION: Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, preplaced aggregate joint material, asbestos sheet packing, and 15 lbs. asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint Sealing Compound shall be paid for under Item 581X.
 Bituminous material, Item 51, shall be applied to the backs of all abutments and wingwalls from the tops of footings to the bottom of pavement.
 When the concrete is cured, finished and protected, rubbed, and the surface is clean and dry, the contractor shall apply a water soluble silicone solution to all exposed surfaces except the underside of slab.
 Item 505B in highway estimate.



No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer, Roadway.
 Field connections shall be made with #8 high strength bolts or rivets. Holes and bolts may be omitted and weld substituted if the Contractor so elects.
 Shop paint: Red lead and oil first coat, red lead and zinc chromate second coat, zinc chromate and zinc silicate third coat. Zinc chromate and zinc silicate fourth coat. Zinc silicate and zinc chromate fifth coat. Zinc silicate and zinc chromate sixth coat. Zinc silicate and zinc chromate seventh coat. Zinc silicate and zinc chromate eighth coat. Zinc silicate and zinc chromate ninth coat. Zinc silicate and zinc chromate tenth coat.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of concrete at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the substructure notes which briefly outline the anticipated structure conditions of the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

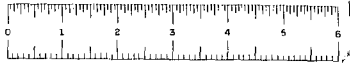
Bridge sidewalks shall not be scored.
 Surface of bridge decks to be poured 1/4" higher than elevation specified and bush hammered to exact elevation.
 All concrete used in the concrete items for the structure shall be Portland Cement, Type 2, with Dares A. E. A. Air Entraining Agent added.
 Dares A. E. A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dares A. E. A. dispenser. The amount of Dares A. E. A. to be added shall be of such a quantity as to insure a controlled air entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dares A. E. A. and all labor and equipment necessary to control the air entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pile concrete shall be Item 185.
 All concrete in abutments including wingwalls and footings and pier column footings shall be Item 303.
 Maximum payment limits for excavation, Item 5, in rock shall be the neat lines of the footings.
 FOOTINGS ON ROCK: See note No. 23 Sheet No. 152.

A retaining partition shall be used in Item 18 and Item 20S.
 Size of pipe sleeves and type of hangers shall be as per the (request for Proposals) Division of Water of the City of Buffalo before fabrication of diaphragms. See sheet No. 160 for additional note.

PIPE SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	5 1/2"	7 1/2"	5 1/2"	3 1/2"	7"	3 1/2"	3"	5"	16 1/2"	16 1/2"	5 1/2"

NO AS BUILT KEYINGS

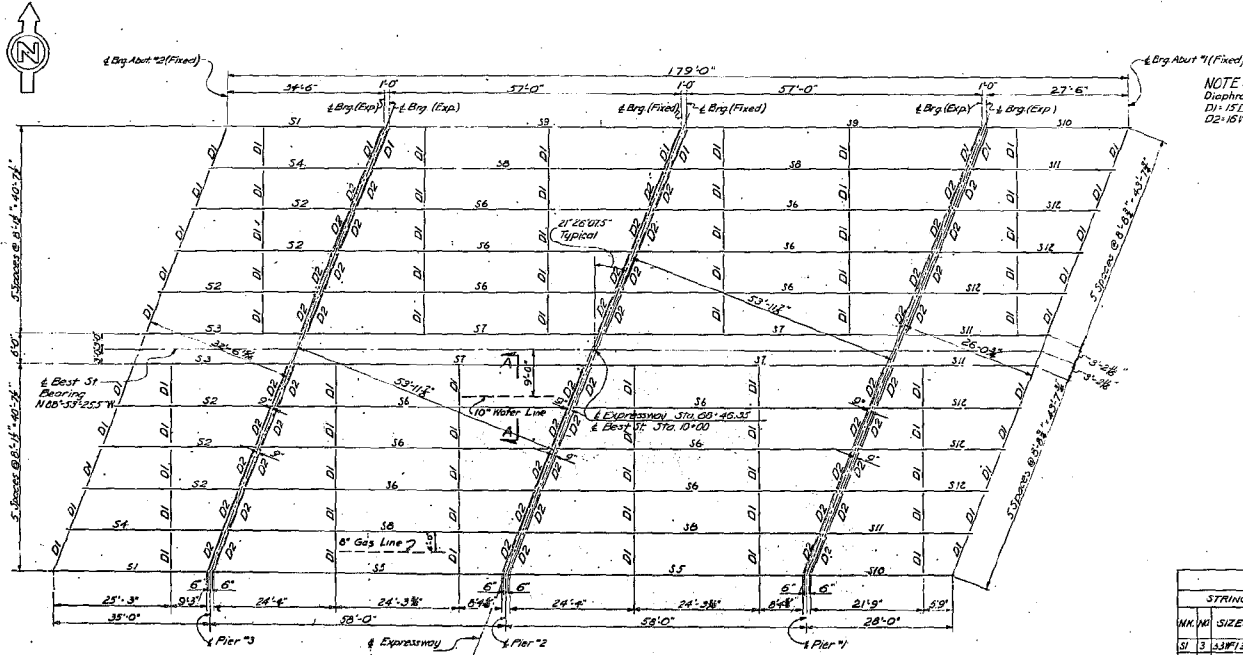
BEST STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES
 STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1
 DE LOUW, CATHAR & BRILL ENGINEERS - ARCHITECTS
 303 E. 44th ST. NEW YORK 17, N. Y.
 DRAWN BY J.C.
 CHECKED BY J.C.
 TRACED BY J.C.



F.A.C. 29-14

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-371(7)		158	178

CONTRACT II



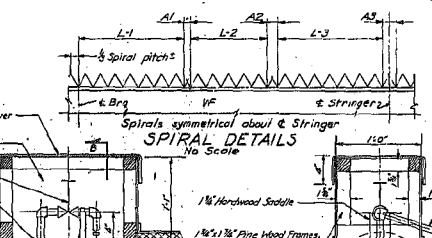
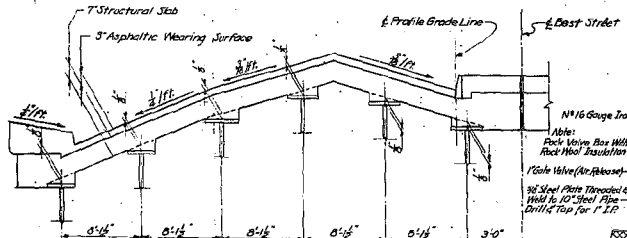
NOTE:
Diaphragm Schedule
D1: 15' 33.9"
D2: 15' 36"

NOTE:
Stringers shall be field welded to span pieces
after the bearings have been set and aligned
to their proper positions on the bridge seats.

ESTIMATE OF QUANTITIES

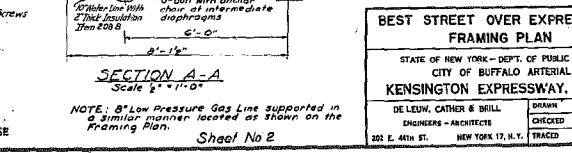
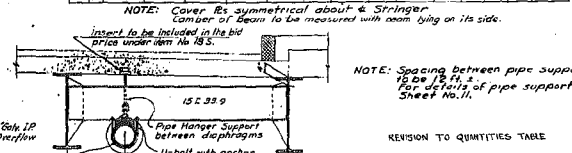
ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL AMOUNT	FINALS
108X	10' x 8' Reinforced Concrete Slab	C.Y.	250	2,600	360
108Y	10' x 8' Reinforced Concrete Slab	C.Y.	250	2,600	360
108Z	10' x 8' Reinforced Concrete Slab	C.Y.	250	2,600	360
109	Class I Concrete for Structures	C.Y.	800	8,000	1,170
110	Class I Concrete	C.Y.	800	8,000	1,170
111	Class I Concrete	C.Y.	800	8,000	1,170
112	Class I Concrete	C.Y.	800	8,000	1,170
113	Class I Concrete	C.Y.	800	8,000	1,170
114	Class I Concrete	C.Y.	800	8,000	1,170
115	Class I Concrete	C.Y.	800	8,000	1,170
116	Class I Concrete	C.Y.	800	8,000	1,170
117	Class I Concrete	C.Y.	800	8,000	1,170
118	Class I Concrete	C.Y.	800	8,000	1,170
119	Class I Concrete	C.Y.	800	8,000	1,170
120	Class I Concrete	C.Y.	800	8,000	1,170
121	Class I Concrete	C.Y.	800	8,000	1,170
122	Class I Concrete	C.Y.	800	8,000	1,170
123	Class I Concrete	C.Y.	800	8,000	1,170
124	Class I Concrete	C.Y.	800	8,000	1,170
125	Class I Concrete	C.Y.	800	8,000	1,170
126	Class I Concrete	C.Y.	800	8,000	1,170
127	Class I Concrete	C.Y.	800	8,000	1,170
128	Class I Concrete	C.Y.	800	8,000	1,170
129	Class I Concrete	C.Y.	800	8,000	1,170
130	Class I Concrete	C.Y.	800	8,000	1,170
131	Class I Concrete	C.Y.	800	8,000	1,170
132	Class I Concrete	C.Y.	800	8,000	1,170
133	Class I Concrete	C.Y.	800	8,000	1,170
134	Class I Concrete	C.Y.	800	8,000	1,170
135	Class I Concrete	C.Y.	800	8,000	1,170
136	Class I Concrete	C.Y.	800	8,000	1,170
137	Class I Concrete	C.Y.	800	8,000	1,170
138	Class I Concrete	C.Y.	800	8,000	1,170
139	Class I Concrete	C.Y.	800	8,000	1,170
140	Class I Concrete	C.Y.	800	8,000	1,170
141	Class I Concrete	C.Y.	800	8,000	1,170
142	Class I Concrete	C.Y.	800	8,000	1,170
143	Class I Concrete	C.Y.	800	8,000	1,170
144	Class I Concrete	C.Y.	800	8,000	1,170
145	Class I Concrete	C.Y.	800	8,000	1,170
146	Class I Concrete	C.Y.	800	8,000	1,170
147	Class I Concrete	C.Y.	800	8,000	1,170
148	Class I Concrete	C.Y.	800	8,000	1,170
149	Class I Concrete	C.Y.	800	8,000	1,170
150	Class I Concrete	C.Y.	800	8,000	1,170
151	Class I Concrete	C.Y.	800	8,000	1,170
152	Class I Concrete	C.Y.	800	8,000	1,170
153	Class I Concrete	C.Y.	800	8,000	1,170
154	Class I Concrete	C.Y.	800	8,000	1,170
155	Class I Concrete	C.Y.	800	8,000	1,170
156	Class I Concrete	C.Y.	800	8,000	1,170
157	Class I Concrete	C.Y.	800	8,000	1,170
158	Class I Concrete	C.Y.	800	8,000	1,170
159	Class I Concrete	C.Y.	800	8,000	1,170
160	Class I Concrete	C.Y.	800	8,000	1,170
161	Class I Concrete	C.Y.	800	8,000	1,170
162	Class I Concrete	C.Y.	800	8,000	1,170
163	Class I Concrete	C.Y.	800	8,000	1,170
164	Class I Concrete	C.Y.	800	8,000	1,170
165	Class I Concrete	C.Y.	800	8,000	1,170
166	Class I Concrete	C.Y.	800	8,000	1,170
167	Class I Concrete	C.Y.	800	8,000	1,170
168	Class I Concrete	C.Y.	800	8,000	1,170
169	Class I Concrete	C.Y.	800	8,000	1,170
170	Class I Concrete	C.Y.	800	8,000	1,170
171	Class I Concrete	C.Y.	800	8,000	1,170
172	Class I Concrete	C.Y.	800	8,000	1,170
173	Class I Concrete	C.Y.	800	8,000	1,170
174	Class I Concrete	C.Y.	800	8,000	1,170
175	Class I Concrete	C.Y.	800	8,000	1,170
176	Class I Concrete	C.Y.	800	8,000	1,170
177	Class I Concrete	C.Y.	800	8,000	1,170
178	Class I Concrete	C.Y.	800	8,000	1,170
179	Class I Concrete	C.Y.	800	8,000	1,170
180	Class I Concrete	C.Y.	800	8,000	1,170
181	Class I Concrete	C.Y.	800	8,000	1,170
182	Class I Concrete	C.Y.	800	8,000	1,170
183	Class I Concrete	C.Y.	800	8,000	1,170
184	Class I Concrete	C.Y.	800	8,000	1,170
185	Class I Concrete	C.Y.	800	8,000	1,170
186	Class I Concrete	C.Y.	800	8,000	1,170
187	Class I Concrete	C.Y.	800	8,000	1,170
188	Class I Concrete	C.Y.	800	8,000	1,170
189	Class I Concrete	C.Y.	800	8,000	1,170
190	Class I Concrete	C.Y.	800	8,000	1,170
191	Class I Concrete	C.Y.	800	8,000	1,170
192	Class I Concrete	C.Y.	800	8,000	1,170
193	Class I Concrete	C.Y.	800	8,000	1,170
194	Class I Concrete	C.Y.	800	8,000	1,170
195	Class I Concrete	C.Y.	800	8,000	1,170
196	Class I Concrete	C.Y.	800	8,000	1,170
197	Class I Concrete	C.Y.	800	8,000	1,170
198	Class I Concrete	C.Y.	800	8,000	1,170
199	Class I Concrete	C.Y.	800	8,000	1,170
200	Class I Concrete	C.Y.	800	8,000	1,170

FRAMING PLAN - BRIDGE OVER EXPRESSWAY
Scale: 1/8" = 1'-0"



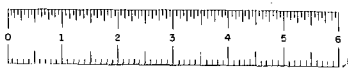
STRINGER SCHEDULE

STRINGER	BOTTOM COV.	SPIRAL SHEAR CONNECTORS	DIMENSION	HEAD LOAD
NO.	SIZE	SECTION I / SECTION L-2 / SECTION L-3	A1 / A2 / A3	LOAD
S1	3 1/2" x 12"	NONE		2'
S2	3 1/2" x 12"	NONE		2'
S3	3 1/2" x 12"	NONE		2'
S4	3 1/2" x 12"	NONE		2'
S5	3 1/2" x 12"	NONE		2'
S6	3 1/2" x 12"	NONE		2'
S7	3 1/2" x 12"	NONE		2'
S8	3 1/2" x 12"	NONE		2'
S9	3 1/2" x 12"	NONE		2'
S10	3 1/2" x 12"	NONE		2'
S11	3 1/2" x 12"	NONE		2'
S12	3 1/2" x 12"	NONE		2'
S13	3 1/2" x 12"	NONE		2'
S14	3 1/2" x 12"	NONE		2'
S15	3 1/2" x 12"	NONE		2'
S16	3 1/2" x 12"	NONE		2'
S17	3 1/2" x 12"	NONE		2'
S18	3 1/2" x 12"	NONE		2'
S19	3 1/2" x 12"	NONE		2'
S20	3 1/2" x 12"	NONE		2'
S21	3 1/2" x 12"	NONE		2'
S22	3 1/2" x 12"	NONE		2'
S23	3 1/2" x 12"	NONE		2'
S24	3 1/2" x 12"	NONE		2'
S25	3 1/2" x 12"	NONE		2'
S26	3 1/2" x 12"	NONE		2'
S27	3 1/2" x 12"	NONE		2'
S28	3 1/2" x 12"	NONE		2'
S29	3 1/2" x 12"	NONE		2'
S30	3 1/2" x 12"	NONE		2'
S31	3 1/2" x 12"	NONE		2'



REVISION TO QUANTITIES TABLE

NO.	DESCRIPTION	QTY	AMOUNT
1	108X	250	2,600
2	108Y	250	2,600
3	108Z	250	2,600
4	109	800	8,000
5	110	800	8,000
6	111	800	8,000
7	112	800	8,000
8	113	800	8,000
9	114	800	8,000
10	115	800	8,000
11	116	800	8,000
12	117	800	8,000
13	118	800	8,000
14	119	800	8,000
15	120	800	8,000
16	121	800	8,000
17	122	800	8,000
18	123	800	8,000
19	124	800	8,000
20	125	800	8,000
21	126	800	8,000
22	127	800	8,000
23	128	800	8,000
24	129	800	8,000
25	130	800	8,000
26	131	800	8,000
27	132	800	8,000
28	133	800	8,000
29	134	800	8,000
30	135	800	8,000
31	136	800	8,000
32	137	800	8,000
33	138	800	8,000
34	139	800	8,000
35	140	800	8,000
36	141	800	8,000
37	142	800	8,000
38	143	800	8,000
39	144	800	8,000
40	145	800	8,000
41	146	800	8,000
42	147	800	8,000
43	148	800	8,000
44	149	800	8,000
45	150	800	8,000
46	151	800	8,000
47	152	800	8,000
48	153	800	8,000
49	154	800	8,000
50	155	800	8,000
51	156	800	8,000
52	157	800	8,000
53	158	800	8,000
54	159	800	8,000
55	160	800	8,000
56	161	800	8,000
57	162	800	8,000
58	163	800	8,000
59	164	800	8,000
60	165	800	8,000
61	166	800	8,000
62	167	800	8,000
63	168	800	8,000
64	169	800	8,000
65	170	800	8,000
66	171	800	8,000
67	172	800	8,000
68	173	800	8,000
69	174	800	8,000
70	175	800	8,000
71	176	800	8,000
72	177	800	8,000
73	178	800	8,000
74	179	800	8,000
75	180	800	8,000
76	1		

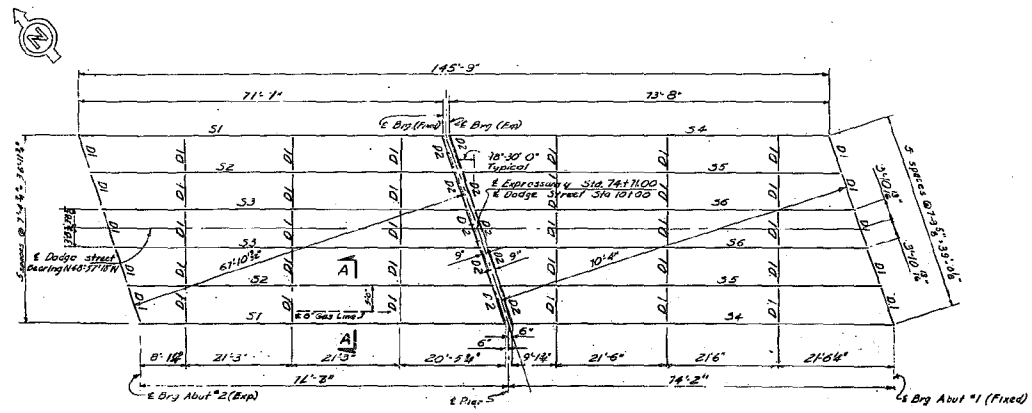


F.A.C. 58-19

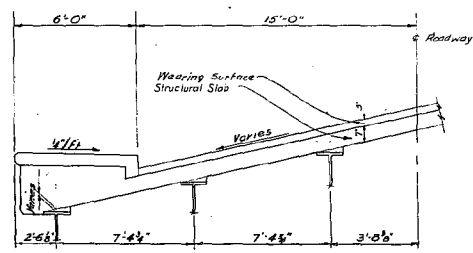
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-311(1)	171	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II



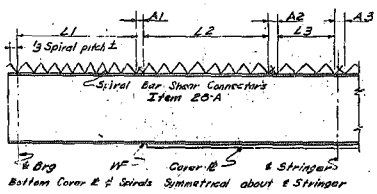
FRAMING PLAN
Scale 3/4" = 1'-0"



DIAGRAMMATIC SECTION
Not to Scale

STRINGER	M.K. NO.	SIZE	BOTTOM COIL & BRIST		SPIRAL SHEAR CONNECTORS			DIMENSION			CAMBER			
			SIZE	LENGTH	SECTION L-1	SECTION L-2	SECTION L-3	A-1	A-2	A-3		DEAD LOAD		
31	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
32	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	4"	1 1/2"
33	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
34	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
35	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"
36	2	36WF10	71'-7"	10'-5"	5'-5"	10'-0"	5"	9'-11"	7"	15'-0"	12"	3"	3"	2 1/2"

NOTE: Number of beam to be measured with beam lying on its side.

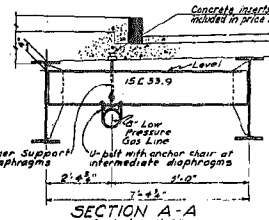


STRINGER DETAILS
Not to Scale

NOTE: Field welding of spiral reinforcement will not be permitted.

ITEM No.	DESCRIPTION	UNIT	TOTAL NEAR	TOTAL ADJUSTED	FINAL
5	Trench, Culvert and Bridge Excavation	C.Y.	692	790	466
10R1	Sewer Pipe (14" Dia) 6' Dia	L.F.	28	27	0
10R2	Pipe Underdrain 6" Dia	L.F.	214	210	212
15-2	Portland Cement, Type 2	Bbl	1353	1500	1123
18	Class I Concrete for Structures	C.Y.	129	138	109
20 S	Class I Concrete	C.Y.	171	152	169
24A	Bagged Screened Gravel	C.Y.	116	124	86
24B	Bar Reinforcement for Structures	Lb.	69714	102,300	100,335
28A	Spiral Bar Shear Connectors	Lb.	2586	2,630	2,420
28A	Structural Steel	Lb.	1,90280	176,600	173,358
27A	Welding Rods	Lb.	298	300	278
32 2X	Asphalt Concrete, Type 9B	Ton	85	90	42
61	Bituminous Material	Sq. Yd.	159	150	85
66	Protective Coating for Concrete	Sq. Ft.	91	82	51
13A	Cast Iron Pipe 6" Diam.	S.F.	2768	2,940	210
65T	Temporary Timber Sheet Piling	L.F.	302	320	302
64 10	12" Stone Curbs (Bridge)	Sq. Yd.	450	445	1106
102A	Gravel, Size or Stone Fill	C.Y.	160	140	124
301 S	Vertical and Inclined 2" Galvanized Steel Cans	L.F.	2	2	2
303 S	Horizontal Light Steel Cans, Type A (2" Mount NGL)	L.F.	2	2	2
581	Joint S. Slab Component	Sq. Ft.	7	9	7
573	Surface Ducting with Fine Aggregate	Sq. Yd.	504	510	503

W/ W/8 Dorex A.E.A. added.



SECTION A-A
Scale 1/4" = 1'-0"

NOTE: Distance between pipe supports shall be 12 ft. For details of pipe supports see Sheet No. 14.

REVISION TO QUANTITY TABLE

DODGE STREET OVER EXPRESSWAY FRAMING PLAN

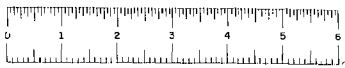
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
CITY OF BUFFALO ARTERIAL

KENSINGTON EXPRESSWAY, SEC. NO. 1

DE LEUN, CATHER & BRILL
ENGINEERS - ARCHITECTS

DRAWN: H.S.M.
CHECKED: F.C.
TRACED: C.B.

303 E. 44th ST. NEW YORK 17, N.Y.



F.A.C. 59-19

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-377(II)	181	178	

KENSINGTON EXPRESSWAY - SEC. NO. 1

CONTRACT II

GENERAL NOTES

DESIGN SPECIFICATIONS: A.S.H.C. 1953 modified - loading 14.20'-315'-4".
 MATERIALS & FABRICATION Specifications of New York State Department of Public Works, dated Jan. 2, 1957 and current modifications and additions.
 The cost of furnishing and installing, prepacked, bituminous joint material, asphalt sheet piling and 1/2" asphalt roofing felt shall be included in the prices bid for the various items in the contract.
 Joint sealing compound shall be paid for under Item 3511.
 Bituminous material, Item 61, shall be applied to the backs of all abutments and wingwalls from the top of footings to the bottom of pavement.
 When the concrete is cured, finished and (if ordered) rubbed, and the surface is clean and dry, the contractor shall apply a water-soluble silicone solution to all exposed surfaces except the underside of slab.

No construction joints other than those shown on the plans will be permitted, without written permission of the Deputy Chief Engineer Bridges.

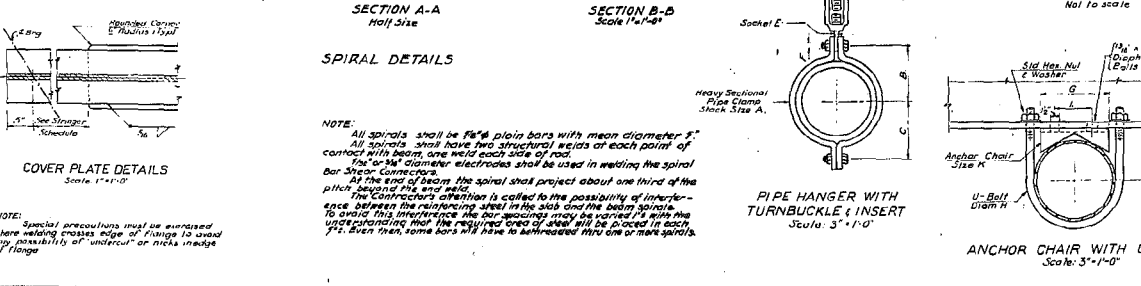
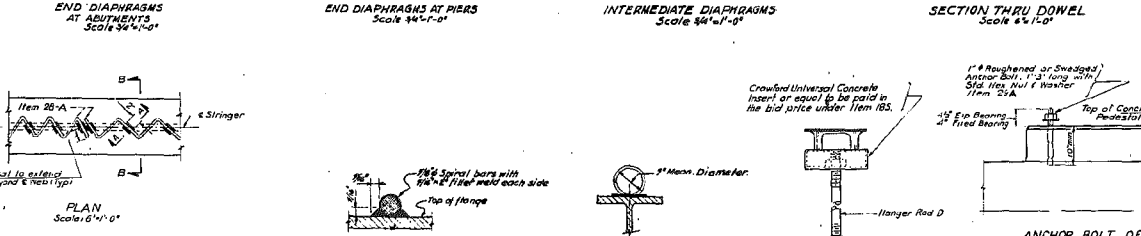
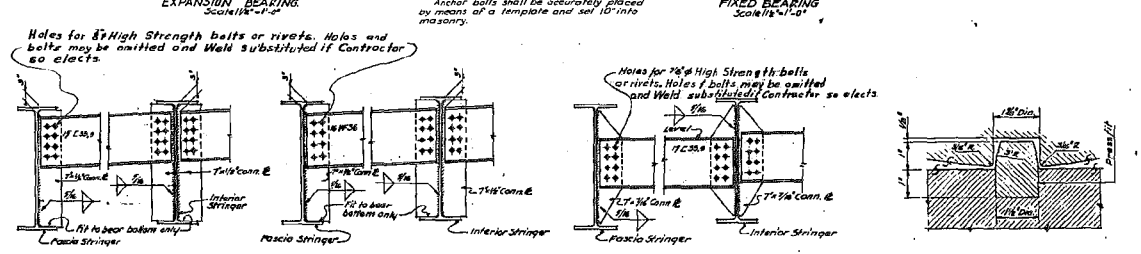
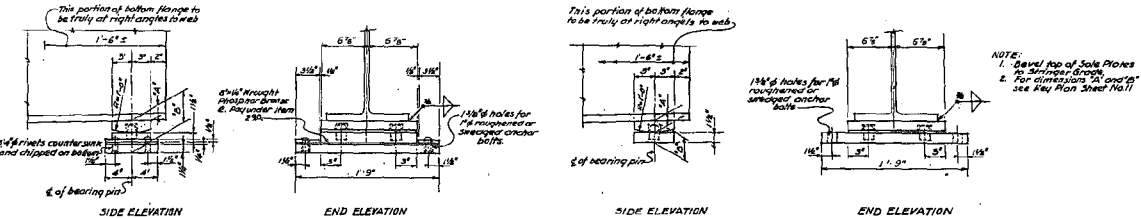
Field connections shall be made with 3" high strength bolts or rivets. Holes and bolts may be omitted and Weld substituted if Contractor so elects.
 Step joints: Red lead and oil flint field coat to be cast in grey paint. Second field coat to be grey green paint. Spiral bar reinforcement, top flange of stringers and top flange of end channels are not to be painted.
 To insure uniform grades for surface of roadway and side walks under dead load, corrections may be made in the thickness of wearing surface of roadway and side walk. The minimum thickness indicated is to be increased at the ends of the spans in case of excessive camber in the beams and increased at the center of the span in case of insufficient camber.
 Identification plates in accordance with N.Y.S.D.P.W. Standard 59-41 will be furnished by New York State Department of Public Works and shall be installed by the Contractor at locations indicated on the plans.
 The Contractor's attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the subcontracting notes which briefly outline the anticipated structure conditions at the site of the structure and which specify certain requirements relative to construction.
 All welding shall comply with the current Specifications of the American Welding Society unless otherwise noted on the plans and with the exception noted below.

Bridge sidewalks shall not be scored.
 Surface of bridge seats be poured 4" higher than elevation specified and bush hammered to exact elevation.
 All cement used in the concrete items for the structure shall be Portland Cement, Type 2, with Dorex A.E.A. Air-Entraining Agent added.
 Dorex A.E.A. in its concentrated form shall be added to the aggregate and cement batch with the water in the mixer at the beginning of the mixing period. The concrete mixer shall be equipped with an approved Dorex A.E.A. dispenser. The amount of Dorex A.E.A. to be added shall be of such a quantity as to insure a controlled air-entrainment within the range of 3% minimum and 6% maximum (with the desired average between 4.5% and 5%) to the satisfaction of the Engineer.
 The cost of furnishing and adding the Dorex A.E.A. and all other equipment necessary to control the air-entrainment will be included in the unit price bid for the concrete items.
 All superstructure concrete and all concrete in pier columns, caps and pedestals shall be Item 185. Pier concrete shall be Item 185. Concrete in Abutment Wingwalls including footings shall be Item 185.
 All concrete in pier footings and pedestals underfootings shall be Item 205.
 Maximum payment limits for excavation, Item 5, in rock shall be the real lines of the footings on rock. See note No. 23 sheet No. 132.

A retarding densifier shall be used in Item 85 and 205.
 Size of pipe sleeves and size and type of hangers shall be verified with the Engineers Gas Corp. or Division of Water of the City of Buffalo before fabrication of diaphragms. See Sheet No. 118 for additional notes.

SIZE	A	B	C	D	E	F	G	H	J	K	L
10"	12"	7"	6"	3"	1"	3"	8"	6"	1/2"	3/4"	3/4"

NOTE: Anchor Chairs with U-Bolts and Pipe Hangers for Gas Line to be furnished and erected by others.
 Holes in diaphragms to be provided by Contractor.



NO AS BUILT REVISIONS

DODGE STREET OVER EXPRESSWAY DIAPHRAGM DETAILS AND SHOES

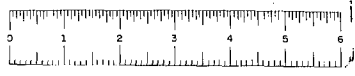
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS
 CITY OF BUFFALO ARTERIAL
 KENSINGTON EXPRESSWAY, SEC. 1

DE LEUW, CATHY & BRILL
 ENGINEERS - ARCHITECTS

DRAWN: A.L.
 CHECKED: C.C.
 TRACED: C.B.

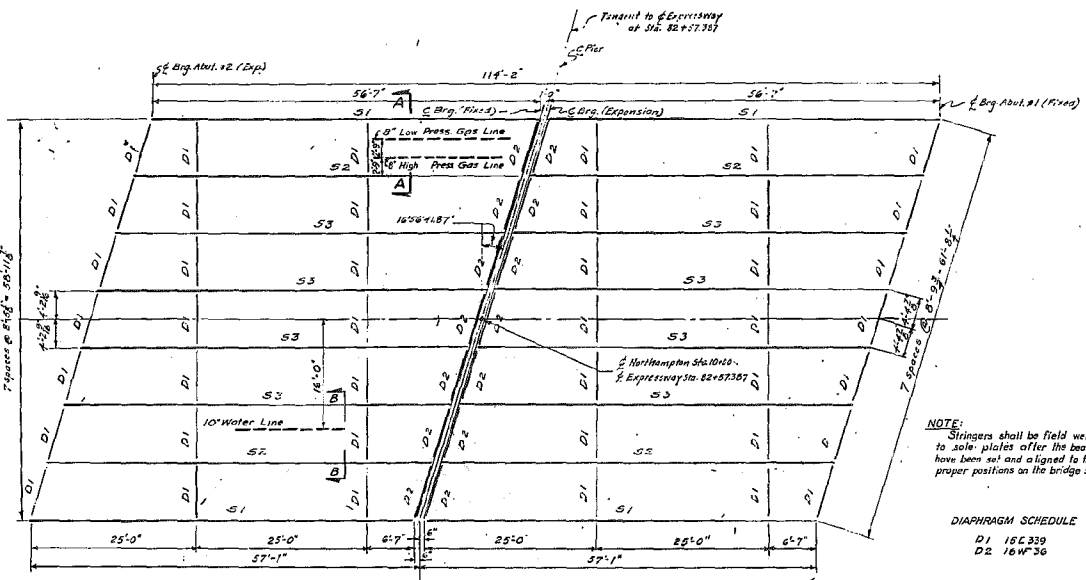
802 E. 44th ST., NEW YORK 17, N.Y.

Sheet No 12



FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	BICKET NO.	TOTAL SHEETS
U-37107	N.Y.		1965	186	178

CONTRACT II



FRAMING PLAN
Scale: 1/8" = 1'-0"

NOTE:
Stringers shall be field welded to sole plates after the bearings have been set and aligned to their proper positions on the bridge seats.

DIAPHRAGM SCHEDULE

- D1 15C339
- D2 16WF36

** Splices ordered are for either size of piles.

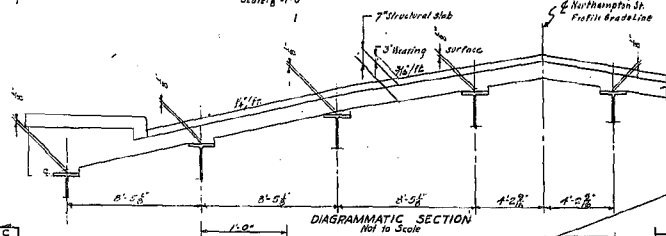
ITEM	DESCRIPTION	UNIT	TOTAL		FINALS
			NEAR	AWAY	
1	Trench, Curb and Bridge Excavation	CY	305	23.0	280
179A	Sewer Pipe (4" Dia.) 6" Dia.	LF	75	15	90
110B1	Pipe Underdrain, 6" Dia.	LF	180	18.5	171.5
110C3	Drainage Channel, Type 2	EA	145	14.5	160
183	Class A Concrete for Structures	CY	350	75.8	324.2
202	Class I Concrete	CY	998	72.0	1070
214	Approved Gravel	CY	112	11.2	123.2
224A	Bar Reinforcement for Structures	LB	92,779	9,520	102,300
224	Spiral Bar Shear Connectors	EA	8,881	2,780	11,661
234	Structural Steel	LB	186,000	171,500	357,500
37A	Meat Rolling	LF	221	2.35	223.35
37B1	Handed Concrete, Type 2B	CU	107	115	222
37	Reinforcing Equipment for Driveway Piles	EA	125	120	245
381	Protective Coating for Concrete	GA	113	120	233
451	Steel Bearing Piles (4" Dia.)	EA	205	270	475
452	Steel Bearing Piles (2" Dia.)	EA	480	200	680
45A	Splices for Steel Bearing Piles	EA	35	37	72
47	Reinforcing Equipment for Driveway Piles	EA	166	190	356
481C	6" Stone Curb, 1' High	LF	243	225	468
112A	Gravel, Slope or Steep Fill	CY	368	370	738
184	Cast Iron Pipe (6" dia.)	LF	13	13	26
201B	Fence and Install 2" Reinforced Steel Conduit	LF	360	380	740
304A	Finish Light Standoff, Type A (18" Mount, High)	EA	72	72	144
305	Miscellaneous Metals	LB	268	270	538
331	Joint Sealing Compound	GA	9	9	18
313	Surface Driveline with Pipe Reinforce	S.Y.	654	690	1344
3207	Temporary Steel Sheet Piling	S.Y.	1800	1572	3372

STRINGER SCHEDULE

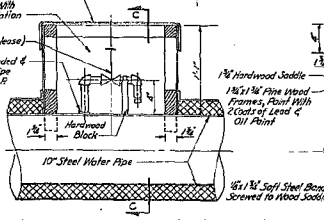
STRINGER	Bol Cover #	SPIRAL SHEAR CONNECTORS			CAMBER										
		Section L-1	Section L-2	Section L-3											
151	A	33WF130	16" x 6"	42'-0"	5'-7"	5'-2"	10'-0"	0'	4'-2"	7'-0"	16'	5'	7'-2"	1'	2'-2"
152	A	33WF130	16" x 6"	42'-0"	10'-0"	4'	10'-0"	0'	7'	7'-0"	9'	5'	7'	1'	2'-2"
153	B	33WF130	16" x 6"	42'-0"	10'-0"	3'	10'-0"	2'-2"	7'	7'-0"	5'	4'	16'	1'	1'-2"

Note: Camber of beam to be measured with beam lying on its side.

Note:
Insulation shall be glass fiber pipe insulation in one piece molded sections 2" thick, as req'd. by Gustin-Brown Mfg. Co. or equal.
Pipe insulation to be furnished with vapor barrier jacket of tough Kraft roll laminate.
Insulated pipe insulation shall be covered with Aluminum weather-proof jacketing as req'd. by Childers Mfg. Co. or equal.

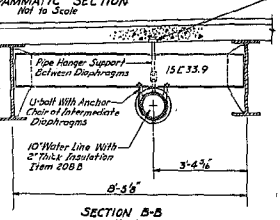


DIAGRAMMATIC SECTION
Not to Scale



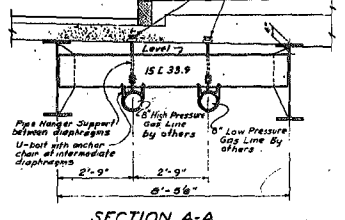
SECTION C-C
Scale 1/2" = 1'-0"

DETAIL OF AIR RELEASE VALVE & VALVE BOX



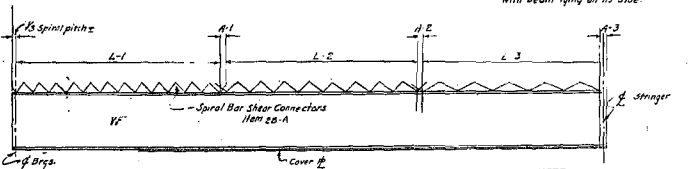
SECTION B-B
Scale 2" = 1'-0"

(Intermediate Diaphragms Only)



SECTION A-A
Scale 1/2" = 1'-0"

(Intermediate Diaphragms Only)



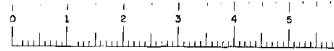
Bottom Cover Plate and Spirals symmetrical about 4 stringers.

STRINGER DETAILS
Not to Scale

NOTE:
Field welding of spiral reinforcement will not be permitted.

FINAL QUANTITY REVISION			
NORTHAMPTON STREET OVER EXPRESSWAY FRAMING PLAN			
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS CITY OF BUFFALO ARTERIAL			
KENSINGTON EXPRESSWAY, SEC. 1			
DE LEUN, CATHY & BELL	DRAWN	K.C.C.	
ENGINEERS - ARCHITECTS	CHECKED	R.C.C.	
802 E. 42nd St.	NEW YORK 17, N.Y.	TRACER	28

Sheet No. 2



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		188	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTLAND AVE.
ERIE COUNTY

ESTIMATE OF QUANTITIES - WALL NO. 1

NO.	ITEM	UNIT	NEAT	PROPOSAL
2UF	Underdrain Filter	C.Y.	184	190
2EF-B	Selected Granular Fill	C.Y.	380,890	380,890
5B	Structure Excavation	C.K.	224,810	224,810
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	3,019	3,020
1B	Class A Concrete for Structures	C.Y.	4,606	4,610
20	Class B Concrete for Structures	C.Y.	3,919	3,910
24A	Bagged Screened Aggregate	C.Y.	1,444	1,450
28	Bar Reinforcement for Structures	L.B.	404,029	404,100
29	Structural Steel	L.B.	8,786	8,790
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	2,936	2,940
6I	Bituminous Material	GAU.	2,245	2,250
83ST	Temporary Steel Sheet Piling	S.F.	68,498	68,500
83TS	Temporary Sheet Piling	S.F.	3,602	3,610
30F	Reticulate Frame and Grate	S.F.	8.6	10
412B	2" Galvanized Steel Conduit	L.F.	560	570

ESTIMATE OF QUANTITIES - WALL NO. 2

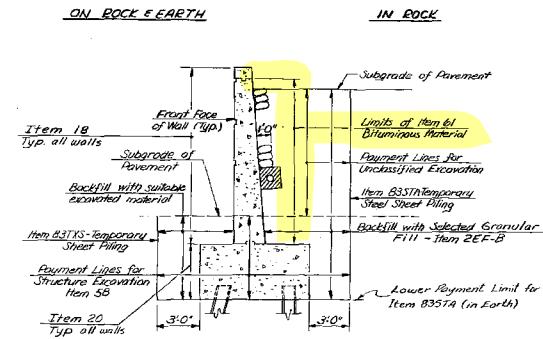
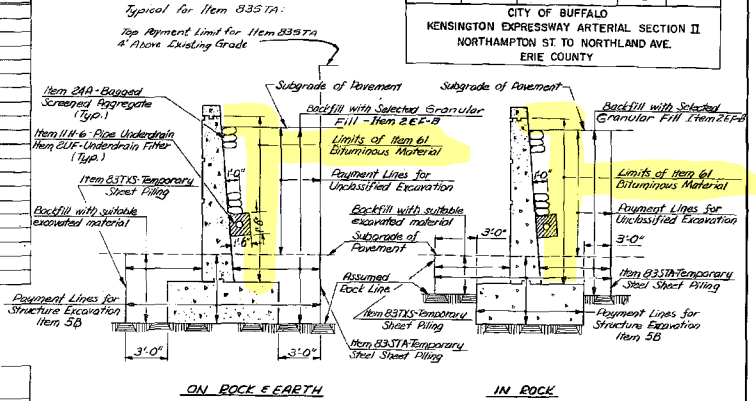
NO.	ITEM	UNIT	NEAT	PROPOSAL
2UF	Underdrain Filter	C.Y.	170	170
2EF-B	Selected Granular Fill	C.Y.	348,605	348,610
5B	Structure Excavation	C.Y.	226,487	226,490
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	2,841	2,850
1B	Class A Concrete for Structures	C.Y.	4,322	4,330
20	Class B Concrete for Structures	C.Y.	2,901	2,910
24A	Bagged Screened Aggregate	C.Y.	1,409	1,410
28	Bar Reinforcement for Structures	L.B.	404,814	404,900
29	Structural Steel	L.B.	7,648	7,650
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	2,553	2,560
6I	Bituminous Material	GAU.	2,071	2,080
83ST	Temporary Steel Sheet Piling	S.F.	64,959	64,960
83TS	Temporary Sheet Piling	S.F.	1,950	1,960
412B	2" Galvanized Steel Conduit	L.F.	429	430

ESTIMATE OF QUANTITIES - WALL NO. 3

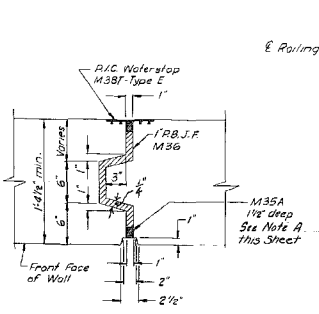
NO.	ITEM	UNIT	NEAT	PROPOSAL
2UF	Underdrain Filter	C.Y.	37	40
2EF-B	Selected Granular Fill	C.Y.	40,696	40,100
5B	Structure Excavation	C.K.	36,009	36,020
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	574	580
1B	Class A Concrete for Structures	C.Y.	653	460
20	Class B Concrete for Structures	C.Y.	630	630
24A	Bagged Screened Aggregate	C.Y.	150	150
28	Bar Reinforcement for Structures	L.B.	42,773	42,800
29	Structural Steel	L.B.	1,681	1,700
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	568	570
6I	Bituminous Material	GAU.	257	260
83ST	Temporary Steel Sheet Piling	S.F.	10,898	10,900
83TS	Temporary Sheet Piling	S.F.	1,217	1,220
84SB	Steel Bearing Test Piles	L.F.	195	170
85	Steel Bearing Piles - 10 BPA2	L.F.	3,508	3,600
85-A	Splices for Steel Bearing Piles	Ea.	44	44
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.

ESTIMATE OF QUANTITIES - WALL NO. 4

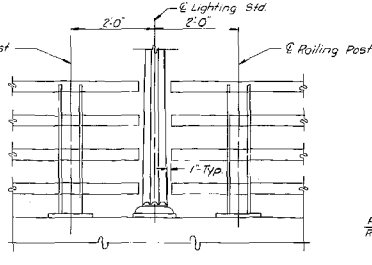
NO.	ITEM	UNIT	NEAT	PROPOSAL
2UF	Underdrain Filter	C.Y.	35	40
2EF-B	Selected Granular Fill	C.Y.	48,993	49,000
5B	Structure Excavation	C.K.	34,005	34,010
11H-6	Perforated Corrugated Metal Pipe Underdrain	L.F.	533	540
1B	Class A Concrete for Structures	C.Y.	562	570
20	Class B Concrete for Structures	C.Y.	655	660
24A	Bagged Screened Aggregate	C.Y.	191	200
28	Bar Reinforcement for Structures	L.B.	54,142	55,200
29	Structural Steel	L.B.	1,546	1,550
37S(4)	Steel Bridge Railing - 4 Rail	L.F.	521	530
6I	Bituminous Material	GAU.	294	300
83ST	Temporary Steel Sheet Piling	S.F.	10,956	10,700
83TS	Temporary Sheet Piling	S.F.	912	850
84SB	Steel Bearing Test Piles	L.F.	105	110
85	Steel Bearing Piles - 10 BPA2	L.F.	2,220	2,220
85-A	Splices for Steel Bearing Piles	Ea.	49	49
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.



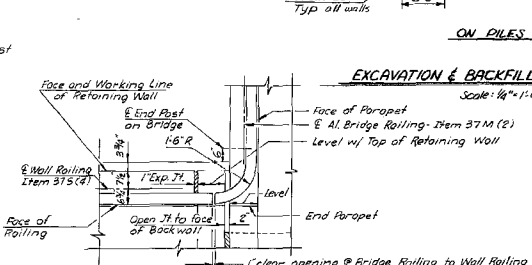
NOTE A:
A layer of wax paper or "Beor Tape" 431-1445 UB as manufactured by Behr Manning Co., Troy, NY or any approved equal, shall be placed between M35A Caulking Compound and the R.B.J.M. 88, Premolded Bituminous Joint Filler.



EXPANSION JOINT DETAIL @ EXIST WALL & WALL "4"
Scale: 1/2" = 1'-0"



RAILINGS ELEVATION AT LIGHTING STANDARD
Scale: 3/8" = 1'-0"



RAILINGS PLAN AT BRIDGE CORNERS
Scale: 1/2" = 1'-0"

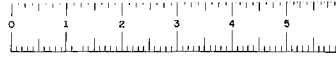
EXCAVATION & BACKFILL PAYMENT LINES
Scale: 1/4" = 1'-0"

- NOTES:**
1. For Wall General Notes, see Wall Sheet 34.
 2. For Railing Details, see Wall Sheet 30.
 3. For Lighting Standard Details, see Wall Sheet 34.

Date: 10-20-67
In Charge Of: H. G. COLES
Designed By: K. W. BOOT
Traced By: E. V. FLACCAVENTO
Checked By: L. W. REGULAR

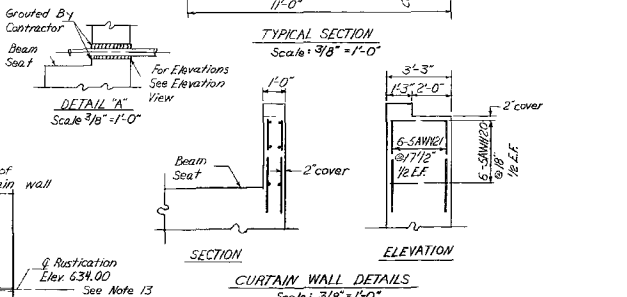
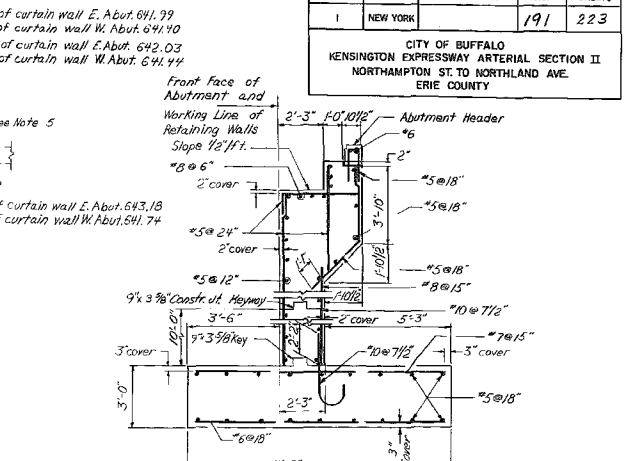
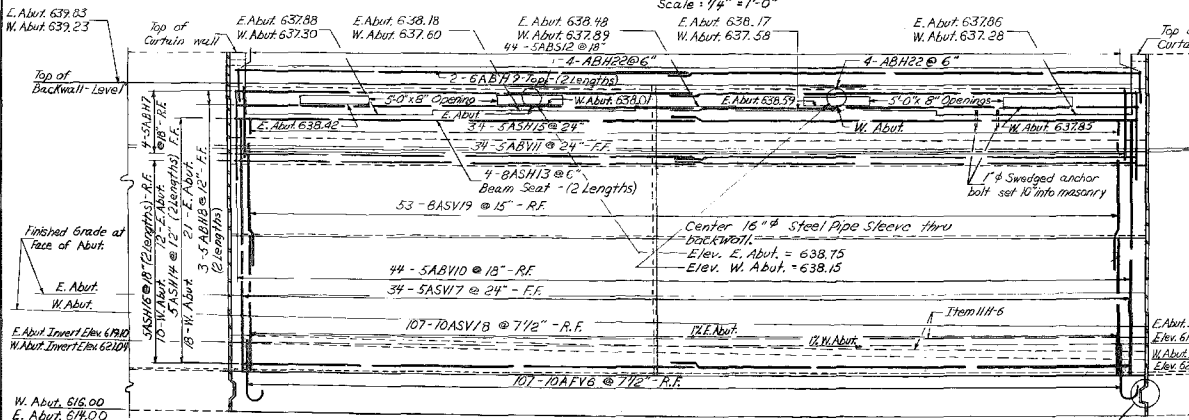
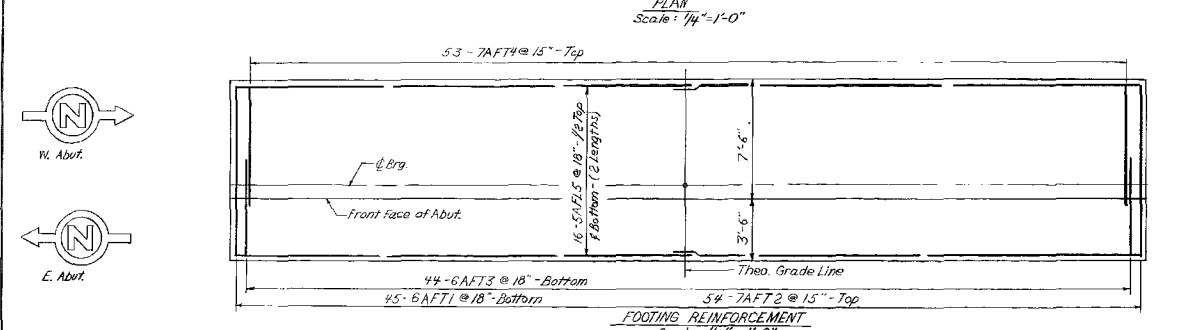
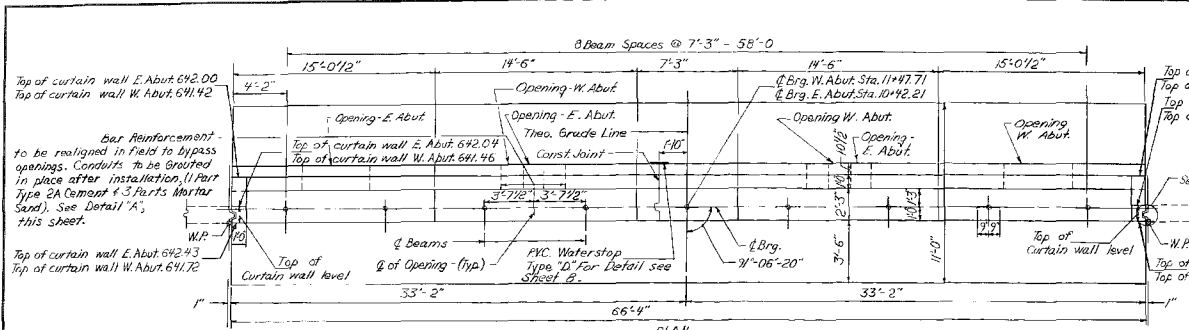
**SUMMARY OF QUANTITIES
TYPICAL SECTIONS
RETAINING WALLS NO. 1, 2, 3, AND 4**

PREPARED AND RECOMMENDED
McFarland-Johnson
N.Y.S.P.E. LIC. NO. 11650 DATE 10-21-67
ENGINEERS



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		191	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures. Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the Wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Vertical Surfaces, Bridge Seats, including the area under the Bearings, Exposed Vertical Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Trowel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Pay Lines at Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Cantilet Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the foundation pressure does not exceed 10 tons per square foot.

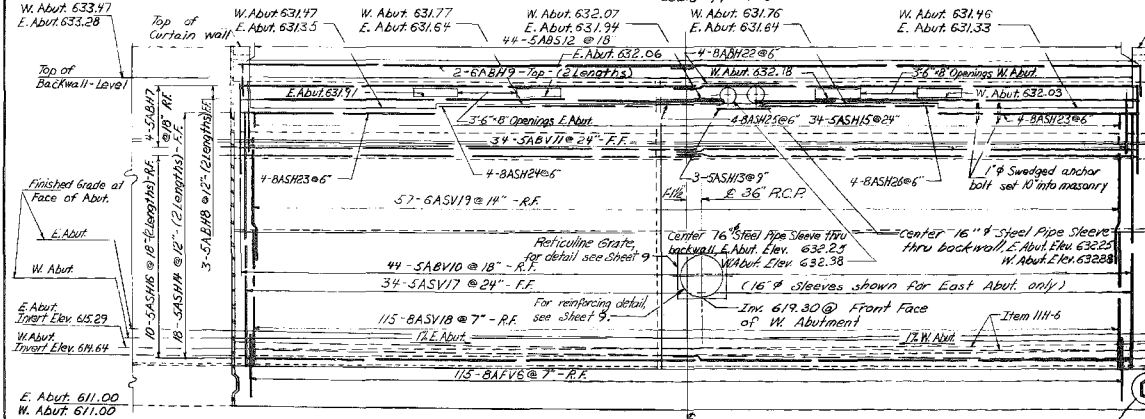
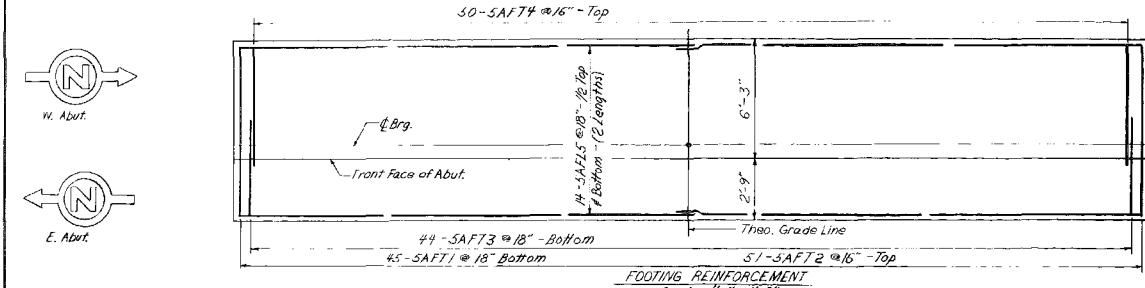
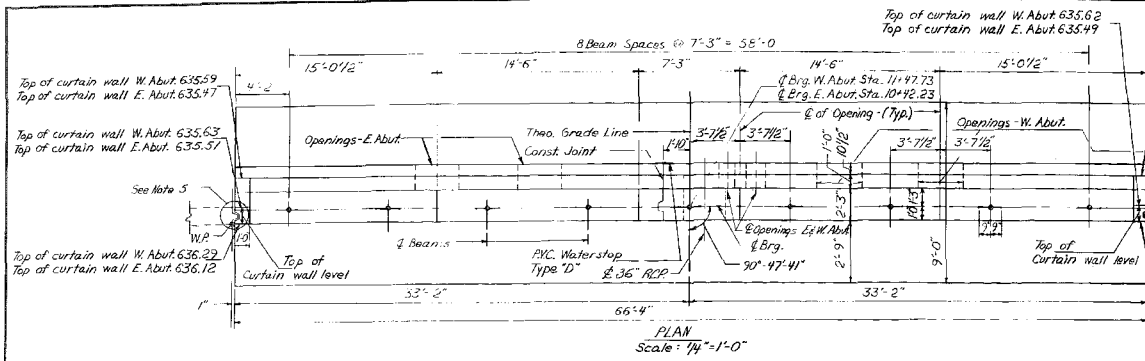
Date: JULY 14, 1957
In Charge Of: H. G. COLES
Designed By: W. D. SWECKER
Traced By: J. F. MEYER
Checked By: W. D. SWECKER

BRIDGE NO. 1

EAST UTICA STREET
OVER KENSINGTON EXPRESSWAY
ABUTMENT DETAILS

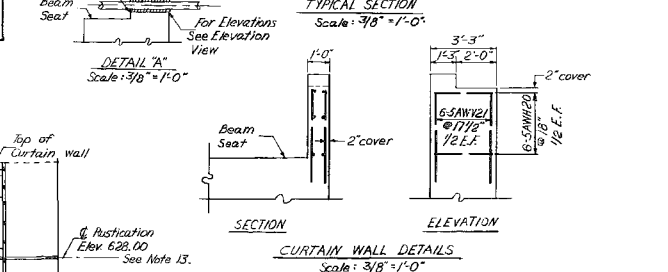
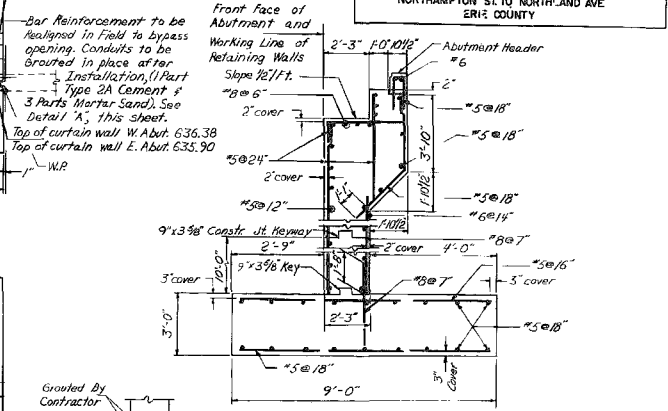
PREPARED AND RECOMMENDED
By: *W. D. Swecker* N.Y.S.P.E. LIC. NO. 20143 DATE 7-25-57
McFARLAND-JOHNSON ENGINEERS

BRIDGE SHEET 3 OF 10



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		201	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTH AND AVE
ERIE COUNTY



- NOTES:
- Concrete in Abutment shall be Item 20, Class B Concrete for Structures.
 - Concrete in Abutment Header shall be Item 18, Class A Concrete for Structures.
 - Bituminous Material, Item 61, shall be applied to the back of Abutment above top of Footing, where fill is in contact with the wall.
 - Epoxy Protective Coating for Concrete shall be applied to all Exposed Reinforcing Surfaces of Backwall and Curtain Walls facing the Superstructure.
 - Top of Backwalls on which Asbestos Sheet Packing is to be placed shall be Steel Travel Finished.
 - For Detail of Expansion Joint at Wall and Footing, see sheet No. 8.
 - For Detail of Expansion Joint between Abutment and Abutment Header, see sheet No. 8.
 - For Railing and Sidewalk Plans at Bridge Corners, see sheet No. 8.
 - For Ray Lines of Abutment, see sheet No. 8.
 - For Bearing Details, see sheet No. 5.
 - For Railing Details, see sheet No. 7.
 - For Conduit Alignment, see sheet No. 5.
 - For Rustication Details, see sheet No. 8.
 - For Bar Schedule, see sheet No. 9.
 - For design purposes, the Foundation Pressure does not exceed 10 tons per square foot.

Date: JULY 14, 1967

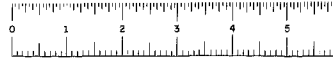
In Charge Of: H. G. COLES

Designed By: W. D. SWICKER

Traced By: J. F. MEYER

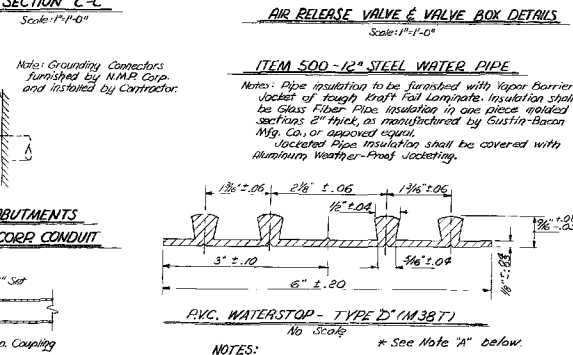
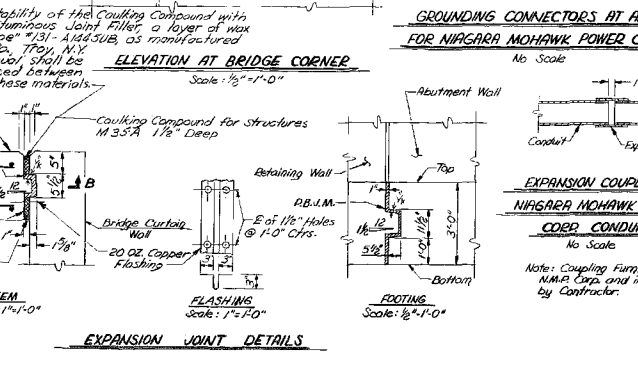
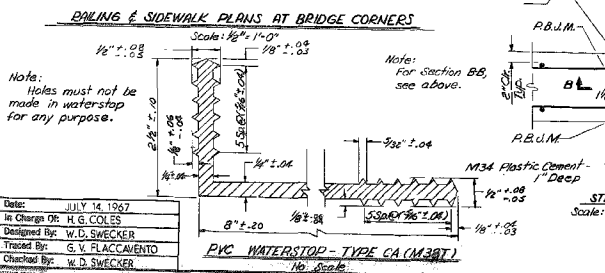
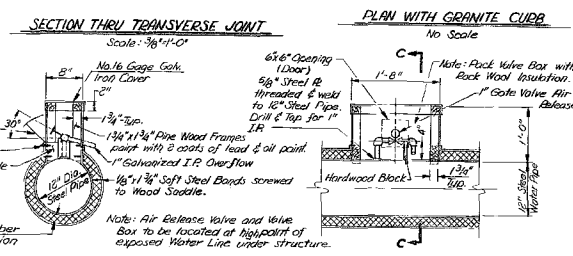
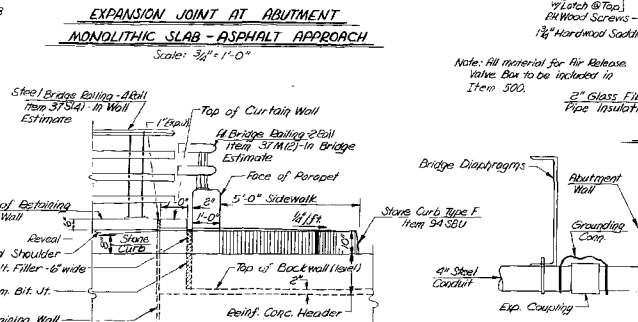
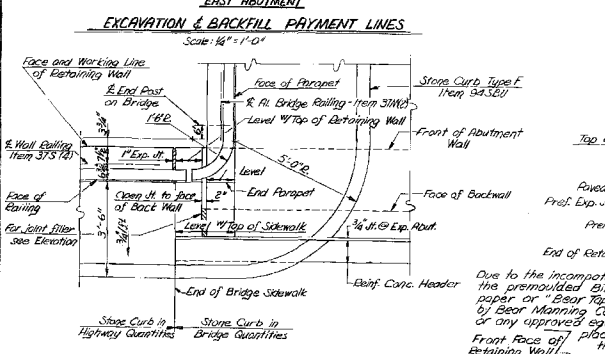
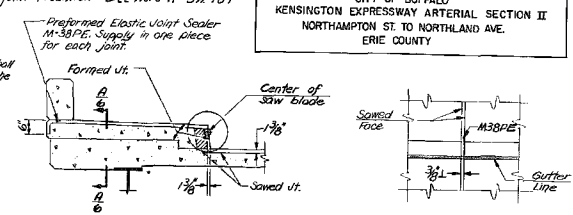
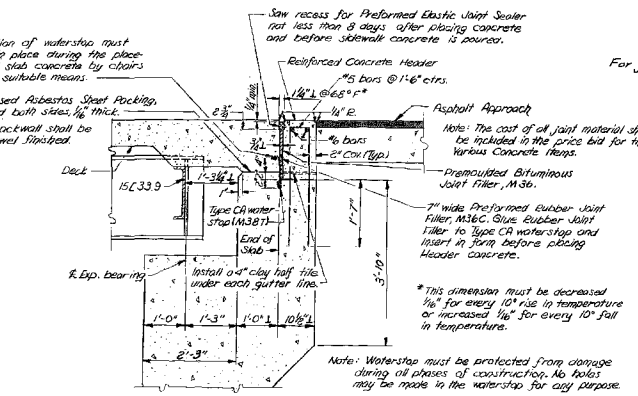
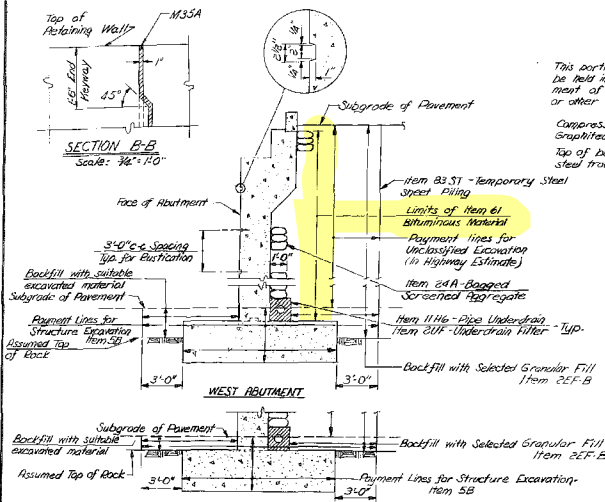
Checked By: W. D. SWICKER

BRIDGE NO. 2	
EAST FERRY STREET OVER KENSINGTON EXPRESSWAY ABUTMENT DETAILS	
PREPARED AND RECOMMENDED BY	NYS&E LIC. NO. 20182 DATE 7-23-67
MCFARLAND JOHNSON	ENGINEERS



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK		206	

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II
NORTHAMPTON ST. TO NORTHLAND AVE.
ERIE COUNTY



Date: JULY 14, 1967
In Charge Of: W.G. COLLIER
Designed By: W.D. SWECKER
Traced By: G.V. PLACCAVENTO
Checked By: W.D. SWECKER

NOTES:
1. For Bridge General Notes, see Bridge Sheet 1.
2. For detail of Fixed Joint of Pier, see Bridge Sheet 5.
3. For location of 14mm 200, 3/8" Steel Pipe Cuts for New York Telephone Co., see Framing Plan, Bridge Sheet 5.
4. For Foundation Notes, see Bridge Sheet 1.

NOTE 2:
Holes must not be made in waterstop for any purpose except as required for Tacking to Forms. Tacking to forms will only be permitted in the area between the outside ribs and the edges of waterstop. Type D waterstop shall be light gray in color.

BRIDGE NO. 2
EAST FERRY STREET
OVER KENSINGTON EXPRESSWAY
MISCELLANEOUS DETAILS

PREPARED AND RECOMMENDED BY: [Signature]
McFARLAND-JOHNSON ENGINEERS
N.Y.S.P.E. LIC. NO. 20143 DATE: 7-25-67

ASBESTOS SURVEY REPORT

Location: BIN 1022640
East Ferry Street Bridge over NY Route 33
City of Buffalo, Erie County, New York
PIN 5812.37.101

Prepared for:
New York State Department of Transportation



Prepared By:



175 Sully's Trail, Suite 202
Corporate Crossings Office Park
Pittsford, New York 14534

January 2014

ASBESTOS SURVEY REPORT

Location: BIN 1022640
East Ferry Street Bridge over NY Route 33
City of Buffalo, Erie County, New York
PIN 5812.37.101

TABLE OF CONTENTS

	<u>Page</u>
1.0 Project Summary.....	1
2.0 Site Description.....	2
3.0 Inspection Procedures	2
4.0 Results.....	2
Certification	4

Figures and Tables

Figure 1	Site Location Map
Figure 2	Asbestos Bulk Sample Location Plan
Table 1	Bulk Sample Results

Appendices

Appendix A	Asbestos Survey Fact Sheet
Appendix B	Licenses and Certifications
Appendix C	Laboratory Analysis Report and Chain of Custody
Appendix D	Previous Survey Report

1.0 Project Summary

In accordance with conditions of Term Agreement D030924, Lu Engineers conducted an asbestos sampling survey on the East Ferry Street Bridge over NY Route 33 (BIN 1022640) located in the City of Buffalo, Erie County, New York. Based on information obtained using the procedures described in Section 3.0 Inspection Procedures, the following summarizes the results of this investigation.

BIN 1022640 – East Ferry Street Bridge over NY Route 33

Confirmed Asbestos-Containing Materials (ACMs)

Based on laboratory analyses of bulk samples collected and records reviewed, the following materials were determined to contain asbestos:

Type of Material	Typical Location	Estimated Amount	Friability	Condition
Grey/Black Sheet Packing	Between Deck and Abutment at both ends of Bridge	128 SF	Non-Friable	Good
Black Bearing Pad	Between Bearing and Concrete Bearing Support	237 SF	Non-Friable	Good
Grey Caulking Compound	Beneath the Guiderail Base Plates	11 SF	Non-Friable	Good

SF – Square Foot

Inaccessible/Assumed ACMs

Record plan review identified steel conduits buried in the concrete sidewalk along the north and south sides of BIN 1022640. Suspect asbestos sealing compound is typically located around the conduit expansion sleeves. The steel conduits and associated expansion sleeves were not observed during Lu Engineers December 5, 2013 site visit.

Record plan review identified an 8-inch gas line set in a 12-inch casing along the south side of BIN 1022640. Suspect asbestos tar coating is typically located on the outside of the gas main. The 12-inch casing was observed during Lu Engineers December 5, 2013 site visit and did not contain any suspect asbestos containing materials.

No other inaccessible/assumed ACMs were identified.

2.0 Site Description

The site is located in the City of Buffalo, Erie County, New York. For the purpose of this report, the site consists of BIN 1022640 – East Ferry Street Bridge over NY Route 33. The site is indicated on the attached Figure 1 – Site Location Map.

3.0 Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACMs were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground and/or by use of a ladder from below. The approximate location of bulk samples is indicated on Figure 2, Asbestos Bulk Sample Location Plan.
- D. Samples were submitted for analysis. Preliminary polarized light microscopy (PLM) analyses of non-friable, organically bound (NOB) materials were performed by Paradigm Environmental Services, Inc., a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy (TEM) analyses of NOB materials, if necessary, were performed by Paradigm Environmental Services, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. An Asbestos Survey has been conducted on this bridge previously. The following Report was reviewed as part of this survey and pertinent results were incorporated:
 - *Asbestos Sampling Survey prepared by LaBella Associates, P.C., dated October 2002.*

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by Lu Engineers to determine the presence of underground utilities on or in the immediate vicinity of the Site.

4.0 Results

BIN 1022640 – East Ferry Street Bridge over NY Route 33

Confirmed Asbestos-Containing Materials (ACMs)

Sheet Packing

Asbestos-containing black sheet packing is located in the horizontal joint between the abutment and the bridge deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 128 square feet. The approximate locations of this asbestos-containing sheet packing are shown in Figure 2.

Bearing Pad

Asbestos-containing black bearing pads are located between the bearing and concrete bearing supports on both bridge abutments and the center pier supports.

It is estimated that the total amount of this asbestos-containing bearing pad material on the bridge is approximately 237 square feet. The approximate locations of the asbestos-containing bearing pads are shown in Figure 2.

Caulking Compound

Asbestos-containing grey caulking compound located between the guiderail base plate and the concrete parapets on both sides of the bridge. Most of this material is presently covered by the base plates, although the portions of this caulking compound are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing caulking compound material on the bridge is approximately 11 square feet. The approximate locations of this asbestos-containing caulking compound are shown in Figure 2.

Inaccessible/Assumed ACMs

Record plan review identified steel conduits buried in the concrete sidewalk along the north and south sides of BIN 1022640. Suspect asbestos sealing compound is typically located around the conduit expansion sleeves. The steel conduits and associated expansion sleeves were not observed during Lu Engineers December 5, 2013 site visit.

It is estimated that the total amount of the sealing compound on the bridge is approximately 8 linear feet. The approximate locations of this sealing compound are shown in Figure 2.

Record plan review identified an 8-inch gas line set in a 12-inch casing along the south side of BIN 1022640. Suspect asbestos tar coating is typically located on the outside of the gas main. The 12-inch casing was observed during Lu Engineers December 5, 2013 site visit.

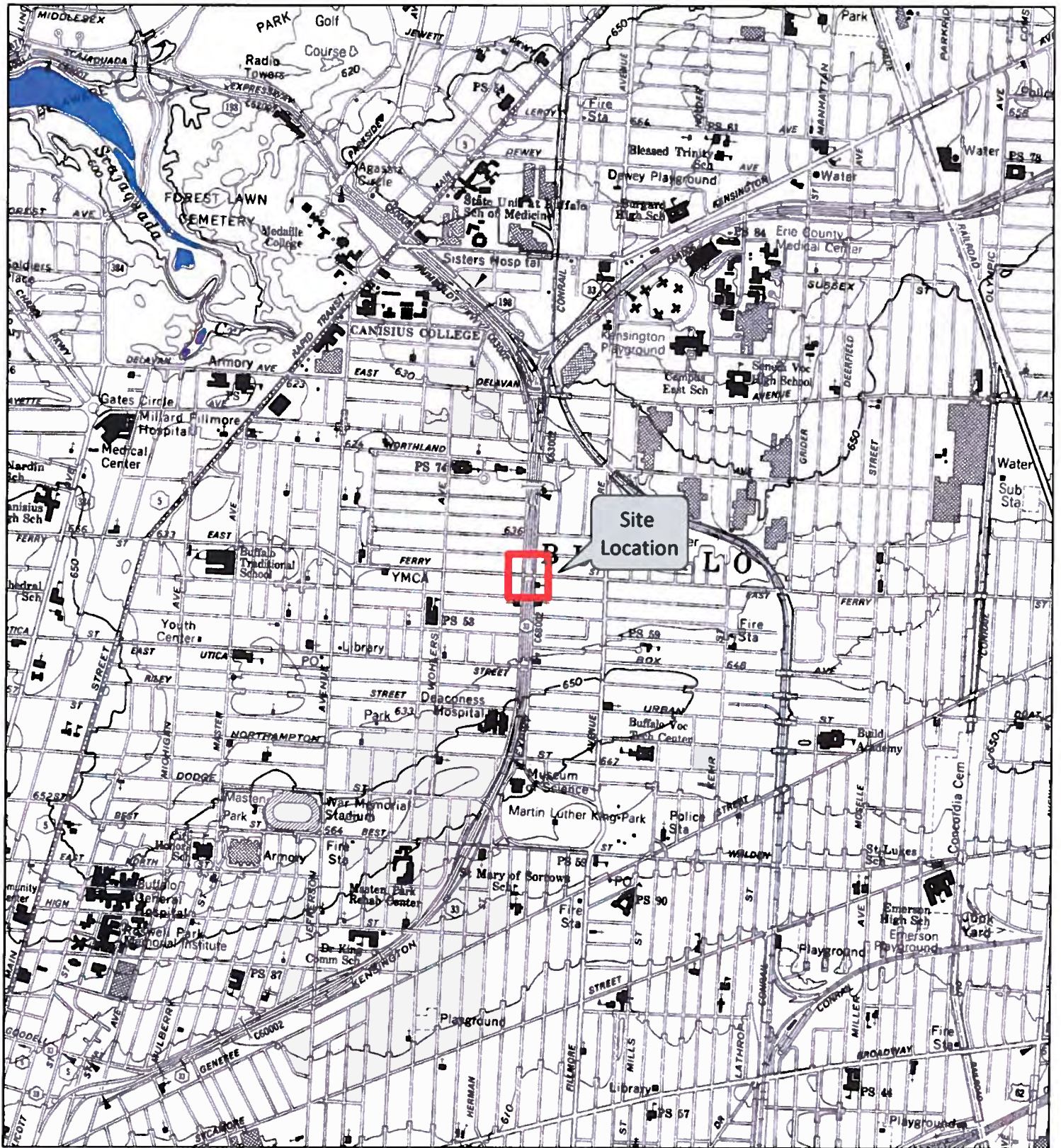
It is estimated that the total amount of the tar coating is approximately 106 linear feet. The approximate location of this gas line is shown in Figure 2.

No other inaccessible/assumed ACMs were identified.

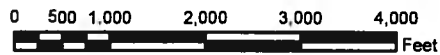
Certification

Lu Engineers certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this report.

Figures and Table



1 inch = 2,000 feet

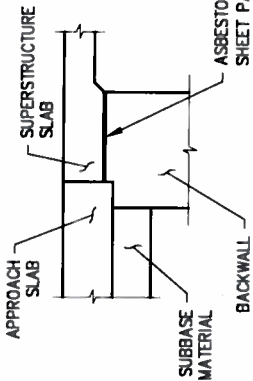


New York Quadrangle Location

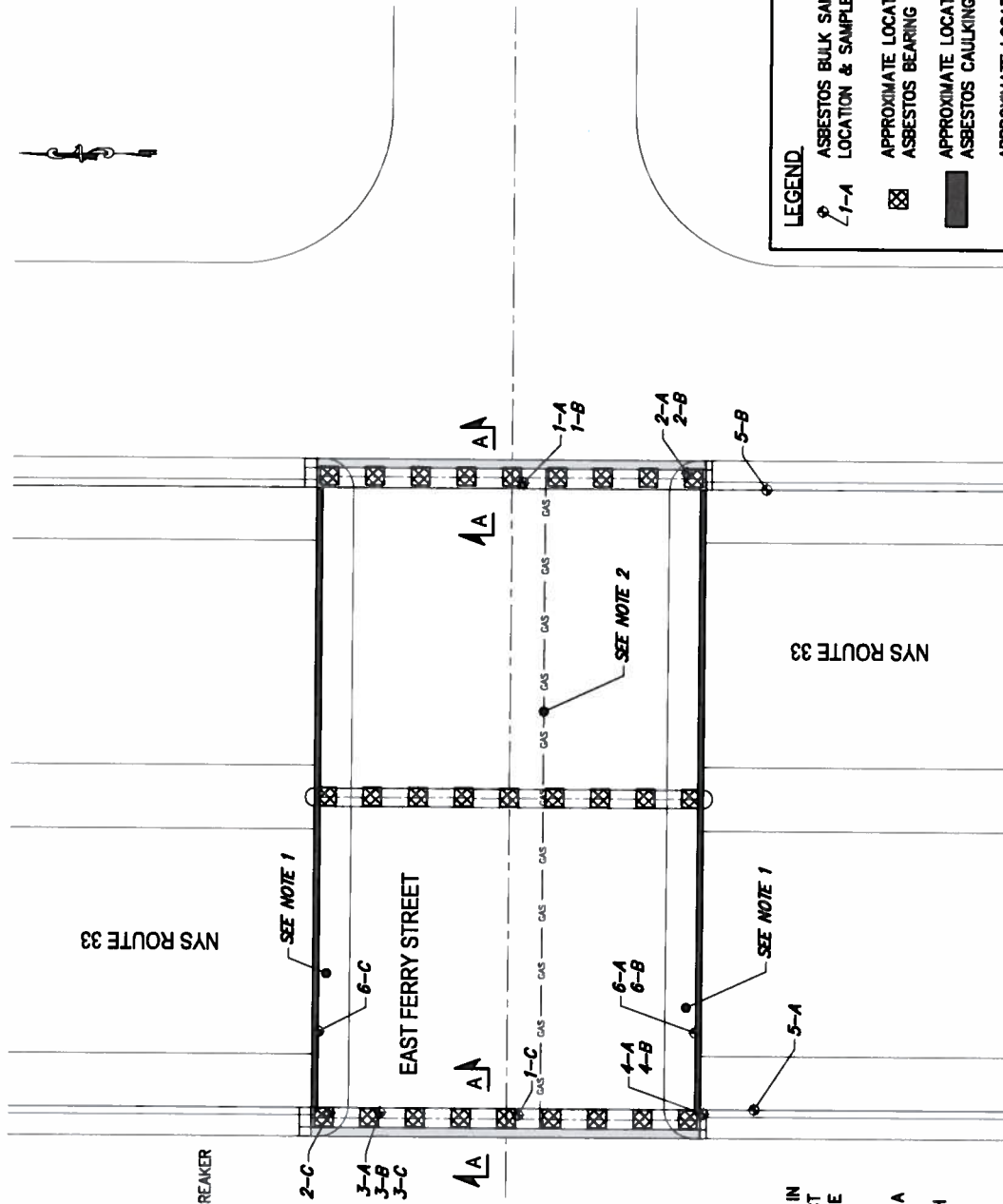


FIGURE 1
SITE LOCATION PLAN
 EAST FERRY STREET OVER NY ROUTE 33
 CITY OF BUFFALO, ERIE COUNTY, NY
 BIN: 1022640 PIN: 5812.37.101

DATE: DECEMBER 2013
SCALE: 1 INCH = 2000 FEET
DRAWN/CHECKED: SMK/MCS
DATA SOURCE: NYS DOT RASTER QUADRANGLES BUFFALO NE, ERIE CO., NY DOT EDITION DATE: 1978 USGS CONTOUR DATE: 1954



SECTION A-A



- NOTE.**
- RECORD PLANS INDICATE STEEL CONDUITS ARE BURIED IN THE NORTH AND SOUTH CONCRETE SIDEWALKS. SUSPECT ASBESTOS SEALING COMPOUND MAY BE LOCATED IN THE EXPANSION SLEEVES.
 - RECORD PLANS INDICATE AN 8-INCH GAS LINE SET IN A 12-INCH CASING ALONG THE SOUTH SIDE OF BIN 1022640. THE 8-INCH GAS LINE MAY BE COATED WITH A SUSPECT ASBESTOS TAR COATING.

LEGEND.

	ASBESTOS BULK SAMPLE LOCATION & SAMPLE NUMBER
	APPROXIMATE LOCATION OF ASBESTOS BEARING PADS
	APPROXIMATE LOCATION OF ASBESTOS CAULKING COMPOUND
	APPROXIMATE LOCATION OF ASBESTOS SHEET PACKING

DATE:	JANUARY 2014
SCALE:	N.T.S.
DRAWN BY:	JRM
BIN:	1022640
PN:	5812.37.101
LU P.N.:	9920-145

FIGURE 2.
ASBESTOS BULK SAMPLE LOCATION PLAN
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION
 EAST FERRY STREET BRIDGE OVER NYS ROUTE 33
 CITY OF BUFFALO | ERIE COUNTY | NEW YORK



SAMPLE RESULTS

East Ferry Street Bridge over NY Route 33
City of Buffalo, Erie County, New York

BIN 1022640

Sample #	Sample Location	Material Description	Results % Asbestos	Amount of Material	Specification Item
1-A	East Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
1-B	East Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
1-C	West Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
2-A	<i>Southeast Corner of Bridge between Deck and Abutment</i>	<i>Grey Sheet Packing</i>	<i>28% Chrysotile</i>	<i>128 SF</i>	<i>210.3312</i>
2-B	<i>Southeast Corner of Bridge between Deck and Abutment</i>	<i>Grey Sheet Packing</i>	<i>Refer to Sample 2-A</i>	<i>Refer to Sample 2-A</i>	<i>Refer to Sample 2-A</i>
2-C	<i>Northwest Corner of Bridge between Deck and Abutment</i>	<i>Black Sheet Packing</i>	<i>Refer to Sample 2-A</i>	<i>Refer to Sample 2-A</i>	<i>Refer to Sample 2-A</i>
3-A	<i>West Bearing Pad</i>	<i>Black Bearing Pad</i>	<i>36% Chrysotile</i>	<i>237 SF</i>	<i>210.4812XX</i>
3-B	<i>West Bearing Pad</i>	<i>Black Bearing Pad</i>	<i>Refer to Sample 3-A</i>	<i>Refer to Sample 3-A</i>	<i>Refer to Sample 3-A</i>
3-C	<i>West Bearing Pad</i>	<i>Black Bearing Pad</i>	<i>Refer to Sample 3-A</i>	<i>Refer to Sample 3-A</i>	<i>Refer to Sample 3-A</i>
4-A	Southwest Corner of Bridge	Grey Caulking	None Detected	N/A	N/A
4-B	Southwest Corner of Bridge	Grey Caulking	None Detected	N/A	N/A
5-A	Vertical Joint of Southwest Retaining Wall	Grey Caulk	None Detected	N/A	N/A
5-B	Vertical Joint of Southeast Retaining Wall	Grey Caulk	None Detected	N/A	N/A
6-A	South Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A
6-B	South Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A
6-C	North Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A

N/A – Not Applicable

SF – Square Foot

APPENDIX A

Asbestos Survey Fact Sheet

Asbestos Survey Fact Sheet

Name and Address of Building/Structure:

East Ferry Street Bridge over NY Route 33 – BIN 1022640
City of Buffalo, Erie County, New York

Name and Address of Building/Structure Owner:

New York State Department of Transportation
50 Wolf Road
Albany, New York 12232

Name and Address of Owner's Agent:

Lu Engineers
175 Sully's Trail, Suite 202
Pittsford, New York 14534

Name of the Firm & Persons Conducting the Survey:

Lu Engineers
Mitchell C. Smith (NYS DOL Cert. #97-15393)
Steven R. Davis (NYS DOL Cert. # 11-13205)

Dates Surveys Were Conducted:

December 5, 2013
January 9, 2014

List of Homogeneous Areas

(Items in Bold Confirmed ACM, *Italics Sampled by Others*)

Black Paper over Yellow Fiberglass Pipe Covering

Grey Sheet Packing

Black Bearing Pad

Grey Caulking (Bridge Joint)

Grey Caulk (Retaining Wall)

Grey Caulk (Parapet)

Grey Caulking Compound (under Guide Rail Base Plates, sampled by LaBella)

APPENDIX B

License and Certifications

New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Joseph C. Lu Engineering And Land Surveying, P.C.
Suite 202
175 Sully's Trail

Pittsford, NY 14534

FILE NUMBER: 99-0907
LICENSE NUMBER: 29286
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 01/17/2013
EXPIRATION DATE: 01/31/2014

Duly Authorized Representative – Susan Hilton

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Eileen M. Franko, Acting Director
For the Commissioner of Labor

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



MITCHELL SMITH
CLASS EXPIRES
C/EG(03/14) D/NSP(03/14)
H/PM(03/14) I/PD(03/14)



CERT# 97-15393
DMV# 992171375

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES GRN
HAIR BRO
HGT 5' 08"

IF FOUND RETURN TO:
NYSOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



STEVEN R DAVIS
CLASS(EXPIRES)
C ATEC(07/14) D INSP(07/14)
H PM (07/14)

CERT# 11-13205
DMV# 190886895

MUST BE CARRIED ON ASBESTOS PROJECTS



IF FOUND RETURN TO:
NYS DOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

01213 000001263 32

EYES GRN
HAIR BRO
HGT 6' 01"

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRUCE HOOGESTEGER
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020 Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 6010B
Lead in Paint	EPA 6010B

Sample Preparation Methods

APP. 14.2, HUD JUNE 1995
EPA 3050B

Serial No.: 48478

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

APPENDIX C

*Laboratory Analysis Report and
Chain of Custody*



PLM & TEM BULK ASBESTOS REPORT

Client: Lu Engineers
Location: NYS DOT, PIN 5812.37.101, BIN 1022640
 E. Ferry Street Bridge over NY Route 33, Buffalo, New York
Sample Date: 12/5/2013

Job No: 13991-13
Page: 1 of 2

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
1-A	94941	East Side of Bridge	Black/Yellow Fibrous Pipe Covering	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Mineral Wool 40% Fiberglass 10%	50%
1-B	94942	East Side of Bridge	Black/Yellow Fibrous Pipe Covering	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Mineral Wool 40% Fiberglass 10%	50%
1-C	94943	West Side of Bridge	Black/Yellow Fibrous Pipe Covering	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Mineral Wool 40%	60%
2-A	94944	SE Corner of Bridge Between Deck & Abutment	Gray Fibrous Sheet Packing	Chrysotile 28%	28%		Not Required	N/A	None Detected	72%
2-B	94945	SE Corner of Bridge Between Deck & Abutment	Gray Sheet Packing	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
2-C	94946	NW Corner of Bridge Between Deck & Abutment	Black Sheet Packing	STOP	POSITIVE	✓	SAMPLE	NOT	ANALYZED	N/A
3-A	94947	West Bearing	Black Fibrous Bearing Pad	Chrysotile 36%	36%	✓	Not Required	N/A	None Detected	64%
3-B	94948	West Bearing	Black Bearing Pad	STOP	POSITIVE	✓	SAMPLE	NOT	ANALYZED	N/A
3-C	94949	West Bearing	Black Bearing Pad	STOP	POSITIVE	✓	SAMPLE	NOT	ANALYZED	N/A
4-A	94950	SW Corner of Bridge	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%



Lab Code 200530-0
for PLM Analysis

ELAP ID No.: 10958

⚠ This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 12/9/2013

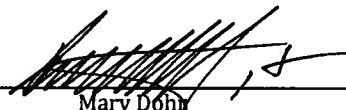
TEM Date Analyzed: 12/10/2013

Microscope: Olympus BH-2 #233173

TEM Analyst: J. Peter Donato

Analyst: F. Weinman

Laboratory Results Approved By:
Asbestos Technical Director



Mary Doherty

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13441-15



167206

Bulk Sample Chain of Custody

Project Name: **NYSDOT - PIN 5812.37.101**

Lu Project # **9920-145**

Site Address: **BIN 1022640 - E. Ferry St. Bridge over NY Rte 33 Buffalo, New York**

Laboratory Name: **Paradigm Environmental Services**

Results to:

Lu Engineers
175 Sullys Trail, Suite 202
Pittsford, NY 14534

Laboratory Address: **179 Lake Avenue Rochester, New York**

Turn Around Time
 Immediate 12 HR
 24 HR 48 HR
 72 HR 5 Day

Comments:
STOP POSITIVE - EXCEPT FOR PAINT!!

Email: sue-hilton@luengineers.com, msmith@luengineers.com

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
1-A	East Side of Bridge	Pipe Collet	94941 Painted Steel
1-B	" " "	" "	" " 942
1-C	West Side of Bridge	" "	943
2-A	SE CORNER of BRIDGE BEHIND DECK - ABUTMENT	SMOOTH PAVEMENT	944
2-B	" " "	" "	945
2-C	ND CORNER of BRIDGE BEHIND DECK - ABUTMENT	" "	946
3-A	West BRIDGE	BRIDGE PAD	947
3-B	" " "	" "	948
3-C	" " "	" "	949
4-A	SD CORNER of BRIDGE	CURB GROUT	Signature JODT 980

Date Sampled: 12/5/2013 Relinquished By: [Signature] Date/Time 12/5/2013

Inspector: [Signature] Received By: [Signature] Date/Time 12/5/13

13992-15



205200
252

Bulk Sample Chain of Custody

Project Name: NYSDOT - PIN 5812.37.101
Lu Project # 9920-145

Site Address: BIN 1022640 - E. Ferry St. Bridge over NY Rte 33 Buffalo, New York
Laboratory Name: Paradigm Environmental Services

Results to:
 Lu Engineers
 175 Sullys Trail, Suite 202
 Pittsford, NY 14534

Laboratory Address: 179 Lake Avenue Rochester, New York

Sample Type
 NYS ELAP PLM/TEM
 PLM Only
 TEM Only

Turn Around Time
 Immediate 12 HR
 24 HR 48 HR
 72 HR 5 Day

Comments:
 STOP POSITIVE - EXCEPT FOR PAINT!!

Email: sue-hilton@luengineers.com, msmith@luengineers.com

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4-B	SD Cor Dat F Bridge	Crack Sample	94951

Date Sampled: 12-5-12
Reinquished By: [Signature] Date/Time 12/5/12

Inspector: [Signature]
Received By: [Signature] Date/Time 12/5/12

Em 12/10/13



PLM & TEM BULK ASBESTOS REPORT

Client: Lu Engineers
Location: NYSDOT, PIN 5812.37.101, BIN 1022640
E. Ferry Street Bridge over NY Route 33, Buffalo, New York

Job No: 0246-14
Page: 1 of 2

Sample Date: 1/9/2014

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
5-A	1613	SW Retaining Wall	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
5-B	1614	SE Retaining Wall	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
6-A	1615	South Side of Bridge	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
6-B	1616	South Side of Bridge	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
6-C	1617	North Side of Bridge	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%

NVLAP
Lab Code 200530-0
for PLM Analysis

ELAP ID No.: 10958

✓ This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

** Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. *Quantitative transmission electron microscopy* is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 1/10/2014

TEM Date Analyzed: 1/10/2014

Microscope: Olympus BH-2 #232953

TEM Analyst: F. Welman

Analyst: J. Peter Donato

Laboratory Results Approved By:
Asbestos Technical Director

Mary Doherty

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0216-14
+3992-13



Bulk Sample Chain of Custody

Project Name: NYSDOT - PIN 5812.37.101
Site Address: BIN 1022640 - E. Ferry St. Bridge over NY Rte 33 Buffalo, New York
Results to:
 Lu Engineers 175 Sullys Trail, Suite 202 Pittsford, NY 14534
 Sample Type: NYS ELAP PLM/TEM PLM Only TEM Only
Laboratory Name: Paradigm Environmental Services
Laboratory Address: 179 Lake Avenue Rochester, New York
Lu Project # 9920-145
Turn Around Time: Immediate 12 HR 24 HR 72 HR 5 Day
Comments: STOP POSITIVE - EXCEPT FOR PAINT!!
 Email: sue-hilton@luengineers.com, msmith@luengineers.com

Handwritten signatures and initials

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4-B	SD SLOPE of BRIDGE	GREY CAUSE	9/15/14
5-A	SD RETAINING WALL	GREY CAUSE	VERTICAL JOINT
5-B	SD RETAINING WALL	" "	" "
6-A	SOUTH SIDE of BRIDGE	GREY CAUSE	PAPER
6-B	" "	" "	" "
6-C	SOUTH SIDE of BRIDGE	" "	" "

1613
614
615
616
617

Date Sampled: 1-9-14
Inspector: SEE FILE
Relinquished By: [Signature]
Received By: [Signature]
Date/Time: 1-9-14 5:15 PM
Date/Time: 1-5-13 2:51 PM

APPENDIX D

Previous Survey Report

Asbestos Sampling Survey

Location:

**Selected Section of Retaining Walls and
Associated Bridges Along Route 33
City of Buffalo, New York.**

Prepared for:

**New York State
Department of Transportation**

PIN 5512.41.102

LaBella Project No. 201001

October 2002

*CC: Mike Christner, SLA
Dave Hill, Job Design Manager*

Asbestos Sampling Survey

Location:

**Selected Section of Retaining Walls and
Associated Bridges Along Route 33
City of Buffalo, New York.**

Prepared for:

**New York State
Department of Transportation**

PIN 5512.41.102

LaBella Project No. 201001

October 2002

**LaBella Associates, P.C.
300 State Street
Rochester, New York 14614-1098**

Table of Contents

	Page
I. Project Summary	1
II. Site Description	1
III. Inspection Procedures	1
IV. Results	2
Certification	2
Figure and Table	

I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of a selected section of poured concrete retaining walls and selected areas of associated bridges along Route 33 (the Kensington Expressway) in the City of Buffalo, New York.

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

<u>Type of Material</u>	<u>Estimated Amount</u>
Joint Sealer	612.3 Meters
Caulking Compound	772.4 Meters

II. Site Description

The Site is located in Erie County, New York. For the purpose of this report, the Site consists of a selected section of poured concrete retaining walls along Route 33 (the Kensington Expressway) in the City of Buffalo, New York. Also included are selected areas of the following associated bridges:

- Northampton Street over Route 33 – BIN 1022620
- East Utica Street over Route 33 – BIN 1022630
- East Ferry Street over Route 33 – BIN 1022640

See FIGURE 1 for approximate site location limits.

III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A visual inspection of the above referenced structures was conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structures, and an estimate of the approximate amount, length, or area of ACM present. Record drawings were not reviewed as a part of this report.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structures. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.

E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.

Only areas expected to be impacted by the upcoming renovation project were inspected. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Results of bulk sample analyses are tabulated in the Bulk Sample Results Table.

IV. Results

Based on the analytical results, the following materials were determined to be asbestos-containing:

Joint Sealer

Asbestos-containing joint sealer is located in the vertical expansion joints of the retaining walls throughout the project corridor. Generally speaking, the joint sealer in the retaining walls to the north of the Utica Street bridge is intact and in good condition, while the joint sealer to the south of the bridge is weathered and in fair condition. The total amount of joint sealer within the project corridor is estimated to be approximately 612.3 meters. This estimate is based on visual observations made at the time of the site visit.

Caulking Compound

Asbestos-containing caulking compound is located in the following areas:

- Around the base plates of most of the guide railings and light poles along the retaining walls
- Around the base plates of the guide railings on the East Ferry Street Bridge

Generally speaking, most of this caulking compound is intact and in good condition. The total amount of caulking compound within the project corridor is estimated to be approximately 772.4 meters. This estimate is based on visual observations made at the time of the site visit.

Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

R2J29RR1

Figure & Table

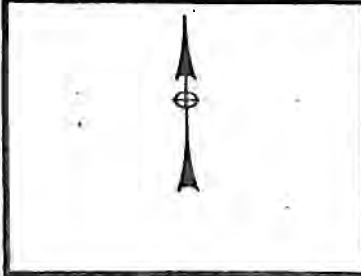


FIGURE 1
Site Location Map
NYS Department of Transportation
Selected Area Along Route 33
City of Buffalo, New York

LABELLA

PROJECT NO. 201001

Bulk Sample Results Table

Asbestos Sampling Survey
Selected Area Along Route 33
City of Buffalo, New York
LaBella Project # 201001
PIN 5512.41.102

Sample #	Sample Location	Type of Material	Results % Asbestos	Specification Item No.
5512.41-1	Expansion Joint in Retaining Wall by Cherry Street	Black Joint Sealer	28% Chrysotile	210.9911 M (BV-12)
5512.41-2	Expansion Joint in Retaining Wall by Cherry Street	Brown Joint Filler	None Detected	N/A
5512.41-3	Expansion Joint in Retaining Wall by Cherry Street	Gray Joint Sealer	26% Chrysotile	Same as Sample No. 1
5512.41-4	Expansion Joint in Retaining Wall by Girard Place	Light Gray Joint Sealer	68% Chrysotile	Same as Sample No. 1
5512.41-5	Base of Guide Rail on Retaining Wall by Girard Place	Light Gray, Rubbery Caulking Compound	15% Chrysotile	210.5431 M (BV-12)
5512.41-6	Base of Guide Rail on Retaining Wall by Woepfel St.	Light Gray, Rubbery Caulking Compound	29% Chrysotile	Same as Sample No. 5
5512.41-7	Expansion Joint in Retaining Wall by Delavan Ave.	Black Joint Sealer	None Detected	N/A
5512.41-I	Base of Guide Rail on East Ferry Street Bridge	Gray, Hard Caulking Compound	14% Chrysotile	Same as Sample No. 5
5512.41-II	Expansion Joint in Retaining Wall on E. Ferry St. Bridge.	Gray, Rubbery Caulking Compound	None Detected	N/A



Retaining Wall Waterproofing Asbestos Investigation and Analytical Letter Report

To: Steve Gauthier, PE
Senior Structural Engineer
LaBella Associates
300 State Street – Suite 201
Rochester, New York 14614

From: Matthew E. Holquist, CHMM

Date: December 13, 2023

Subject: PIN 5512.52 Kensington Expressway
Watts Project # 20220255
Retaining Wall Waterproofing Tar Asbestos Investigation and Analytical Letter Report

Watts Architects & Engineers (Watts) is part of the Engineering Design team along with LaBella Associates (LaBella), the Prime Design Engineers for the New York State Department of Transportation (NYSDOT) Kensington Expressway (Rt. 33) Project (NYSDOT PIN 5512.52, D038277) within the City of Buffalo, Erie County, New York. A suspect asbestos-containing waterproofing tar was identified during the record plan review portion of the initial asbestos-containing material (ACM) inspections that were completed for each bridge structure as part of this project. Because this suspect ACM was applied to the retaining wall footers and back side of the wall during the original construction, it was not accessible during the ACM inspections, thus it was enumerated as an inaccessible assumed ACM and the recommendation was made to collect bulk samples of the material in the future. This letter report details the findings of the subsequent retaining wall coring asbestos inspection program that was undertaken at the request of NYSDOT. The retaining wall coring activities were completed at select locations along the Route 33 roadway by Watts and LaBella between December 4th and December 8th, 2023. Refer to Drawing No. 1, Proposed Wall Core Locations For Asbestos Evaluation (provided by LaBella) that is attached to this letter report. LaBella utilized US Traffic Control to conduct the Work Zone Traffic Control (WZTC) during the retaining wall coring activities.

This letter report is an addendum to the following asbestos inspection reports that have been previously submitted to NYSDOT as part of this project:

- Asbestos-Containing Materials (ACM) Inspection of the Best Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022609), dated August 2023, Revised September 2023.
- Asbestos-Containing Materials (ACM) Inspection of the Dodge Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022610), dated August 2023, Revised September 2023.
- Asbestos-Containing Materials (ACM) Inspection of the Northampton Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022620), dated August 2023, Revised September 2023.
- Asbestos-Containing Materials (ACM) Inspection of the East Utica Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022630), dated August 2023, Revised September 2023.
- Asbestos-Containing Materials (ACM) Inspection of the East Ferry Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022640), dated August 2023, Revised September 2023.

Methodology

The retaining wall coring asbestos inspection program was completed in general accordance with NYSDOT's Transportation Environmental Manual (TEM), Section 4.4.19 Asbestos Management (and all updates), New York State Department of Labor (NYSDOL) Industrial Code Rule 56, and the project scope.

The retaining walls included within the limits of this project were originally constructed as part of two separate construction projects. This results in two separate homogeneous materials in association with the retaining wall waterproofing tar throughout the project corridor. However, in an effort towards thoroughness and due diligence, it was decided that each individual retaining wall would be cored through to access the waterproofing tar for bulk sampling purposes. A total of 10 bulk samples were collected and submitted to the laboratory for asbestos content. The Asbestos Bulk Sample Summary Table details the bulk samples collected, the sample locations, and analytical results.

Review of Record Plans

The record plans associated with the retaining walls included within the limits of this project were reviewed as part of the original asbestos inspection reports. Approximately 234,486 square feet of suspect ACM Waterproofing – Item 61 – Bituminous Material (NYSDOT Specification Item No. 210.481201) was identified as an inaccessible assumed ACM throughout the project corridor. For additional information, see the reports previously detailed within this letter report.

Field Observations and Asbestos Assessment

The suspect ACM bulk sampling portion of the retaining wall coring program was performed by a NYSDOL-licensed asbestos inspector from Watts. Ten (10) bulk samples of Item 61 Bituminous Material – Black Waterproofing were collected and submitted for laboratory analysis for asbestos content. The samples were delivered to a New York State Department of Health (NYSDOH) approved analytical laboratory (EMSL Buffalo). The lab is a participant in the National Voluntary Laboratory Approval Program (NVLAP), administered by the National Institute of Standards and Technology (NIST). Refer to the attached laboratory report and chain-of-custody form listing the samples that were collected and analyzed for this assessment. In addition, refer to Drawing No. 1, Proposed Wall Core Locations For Asbestos Evaluation (provided by LaBella) which identifies the individual coring locations from which bulk samples were collected.

All bulk samples of the waterproofing tar were considered non-friable organically bound (NOB) materials. Laboratory analysis of NOBs underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) Method 198.6. Any NOB materials that were found to be negative under PLM were then to be analyzed by Transmission Electron Microscopy (TEM) Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos.

ACM is defined as any material containing more than one percent (1%) of asbestos. The Asbestos Bulk Sample Summary Table below details the bulk samples collected, the sample locations, and analytical results.

Asbestos Bulk Sample Summary Table
Retaining Walls associated with the Kensington Expressway (NYS Route 33)
City of Buffalo, Erie County, New York
PIN 5512.52

No samples were identified as an asbestos-containing material.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
20220255-RW2-C1	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 2, Panel 270	None Detected
20220255-RW2-C2	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 2, Panel 232	None Detected
20220255-RW2-C3	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 2, Panel 212	None Detected
20220255-RW10-C4	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 10, Panel 1C	None Detected
20220255-RW9-C5	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 9, Panel 6-2	None Detected
20220255-RW8-C6	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 8, Panel 7B	None Detected
20220255-RW11-C7	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 11, Panel 2A	None Detected

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
20220255-RW1-C8	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 1, Panel 116	None Detected
20220255-RW1-C9	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 1, Panel 146	None Detected
20220255-RW1-C10	Item 61 Bituminous Material – Black Waterproofing	Retaining Wall 1, Panel 175	None Detected

Conclusions and Recommendations

No asbestos was detected within any of bulk samples collected of the retaining wall waterproofing tar. The ~234,486 square feet of Waterproofing – Item 61 – Bituminous Material (NYSDOT Specification Item No. 210.481201) that was previously identified as an inaccessible assumed ACM should now be considered to be non-ACM. This item should be removed from any asbestos abatement scope of work and the Special Asbestos Removal Note.

There are no further recommendations regarding the retaining wall waterproofing material.

Sincerely,

WATTS ARCHITECTS & ENGINEERS, D.P.C.



Matthew E. Holquist, CHMM
Associate, Sr. Environmental Consultant

Attachments:

- Retaining Wall Core Bulk Sample Location Map (Drawing No. 1, Proposed Wall Core Locations For Asbestos Evaluation)
- Retaining Wall Waterproofing Tar Asbestos Investigation Photo Pages
- Laboratory Analytical Reports, Bulk Sampling Chain-of-Custodies, and Laboratory Accreditations
- Watts Asbestos Licenses and Employee Certifications



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 142305711
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matt Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / Retaining Walls along Kensington (Rt. 33)

Phone: (716) 435-1724
Fax: (716) 206-5199
Received Date: 12/07/2023 5:08 PM
Analysis Date: 12/11/2023
Collected Date: 12/07/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 20220255-RW2-C1 142305711-0001		Description	Retaining Wall 2, Panel 270 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Gray/ Black		96.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Gray/ Black		100.00% Other	None Detected
Sample ID 20220255-RW2-C2 142305711-0002		Description	Retaining Wall 2, Panel 232 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Black		95.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Black		100.00% Other	None Detected
Sample ID 20220255-RW2-C3 142305711-0003		Description	Retaining Wall 2, Panel 212 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Gray/ Black		92.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Gray/ Black		100.00% Other	None Detected
Sample ID 20220255-RW10-C4 142305711-0004		Description	Retaining Wall 10, Panel 1C - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Black		97.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Black		100.00% Other	None Detected
Sample ID 20220255-RW9-C5 142305711-0005		Description	Retaining Wall 9, Panel 6-2 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Black		93.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Black		100.00% Other	None Detected

Initial report from: 12/11/2023 11:20:28



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142305711
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 20220255-RW8-C6 142305711-0006		Description	Retaining Wall 8, Panel 7B - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Black		97.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Black		100.00% Other	None Detected
Sample ID 20220255-RW11-C7 142305711-0007		Description	Retaining Wall 11, Panel 2A - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Gray/ Black		97.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Gray/ Black		100.00% Other	None Detected
Sample ID 20220255-RW1-C8 142305711-0008		Description	Retaining Wall 1, Panel 116 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Gray/ Black		98.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Gray/ Black		100.00% Other	None Detected

Initial report from: 12/11/2023 11:20:28



EMSL Analytical, Inc.

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<http://www.EMSL.com / buffalo@emsl.com>

EMSL Order: 142305711
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 12/7/2023
Analysis Completed Date: 12/11/2023

Sample Receipt Time: 5:08 PM
Analysis Completed Time: 10:42 AM

Analyst(s):

Hannah Parkes PLM NYS 198.6 NOB (8)

Rhonda McGee TEM NYS 198.4 NOB (8)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis . Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos . Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 12/11/2023 11:20:28

142305711

**WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY**

Page: 1 of 1

Client: New York State Department of Transportation / LaBella
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY
Building / Location: Retaining Walls along Kensington (Rt. 33)
Contact: Matt Holquist at **(716) 435-1724**
Email Preliminary Results to: mholquist@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: 12/7/23
Watts Project No.: 20220255

Analysis Requested:	Turnaround Time Requested:
ELAP 198.1 (Friable PLM) _____	24 Hr. _____ 5 Day _____
ELAP 198.6 (NOB PLM) <u> X </u>	48 Hr. <u> X </u> 1 Week _____
ELAP 198.4 (NOB TEM) <u> X </u>	72 Hr. _____ 2 Weeks _____
Other (Specify) _____	96 Hr. _____

Sample Number	Material Description	HM	Sample Location	Laboratory Results	
				PLM	TEM
20220255-RW2-C1	Item 61 Bituminous Material - Black Waterproofing	1	Retaining Wall 2, Panel 270		
20220255-RW2-C2	Item 61 Bituminous Material - Black Waterproofing	1	Retaining Wall 2, Panel 232		
20220255-RW2-C3	Item 61 Bituminous Material - Black Waterproofing	1	Retaining Wall 2, Panel 212		
20220255-RW10-C4	Item 61 Bituminous Material - Black Waterproofing	2	Retaining Wall ¹⁰ 4, Panel 1C <small>(edited by MH 12/12/2023)</small>		
20220255-RW9-C5	Item 61 Bituminous Material - Black Waterproofing	2	Retaining Wall 9, Panel 6-2		
20220255-RW8-C6	Item 61 Bituminous Material - Black Waterproofing	2	Retaining Wall 8, Panel 7B		
20220255-RW11-C7	Item 61 Bituminous Material - Black Waterproofing	2	Retaining Wall 11, Panel 2A		
20220255-RW1-C8	Item 61 Bituminous Material - Black Waterproofing	1	Retaining Wall 1, Panel 116		

RECEIVED
 DEC 07 2023

BY: Ybm 5:08 WT

Sampled By: Matthew E. Holquist Matthew E. Holquist Date: 12/07/23 Time: 15:00 **Received By:** _____ Date: _____
Relinquished By: Robert Swick Robert Swick Date: 12/07/23 Time: 1707 **Received By:** _____ Date: _____

Comments: Please analyze all samples (do not stop at first positive). Analyze NOB materials by TEM if Non-ACM by PLM.
If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalolab@emsl.com>

EMSL Order: 142305716
Customer ID: WATT50
Customer PO:
Project ID:

Attention: Matt Holquist
Watts Architecture & Engineering
95 Perry Street
Suite 300
Buffalo, NY 14203
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / Retaining Walls along Kensington (Rt. 33)

Phone: (716) 435-1724
Fax: (716) 206-5199
Received Date: 12/08/2023 1:09 PM
Analysis Date: 12/11/2023
Collected Date: 12/08/2023

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID 20220255-RW1-C9 142305716-0001		Description	Retaining Wall 1, Panel 146 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Black		99.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Black		100.00% Other	None Detected
Sample ID 20220255-RW1-C10 142305716-0002		Description	Retaining Wall 1, Panel 175 - Item 61 Bituminous Material - Black Waterproofing		
		Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	12/11/2023	Brown/ Black		97.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	12/11/2023	Brown/ Black		100.00% Other	None Detected

Initial report from: 12/12/2023 12:52:29



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffalo@emsl.com>

EMSL Order: 142305716
Customer ID: WATT50
Customer PO:
Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above . Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 12/8/2023
Analysis Completed Date: 12/11/2023

Sample Receipt Time: 1:09 PM
Analysis Completed Time: 1:17 PM

Analyst(s):

Hannah Parkes PLM NYS 198.6 NOB (2)

Rhonda McGee TEM NYS 198.4 NOB (2)

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 12/12/2023 12:52:29

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2024
Issued April 01, 2023
Revised April 26, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

*MS. RHONDA R. MCGEE
EMSL ANALYTICAL INC
490 ROWLEY ROAD
DEPEW, NY 14043*

NY Lab Id No: 11606

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual



Serial No.: 67800

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at <https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/>, by phone (518) 485-5570 or by email to elap@health.ny.gov.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200056-0

EMSL Analytical, Inc.
Depew, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2023-07-01 through 2024-06-30

Effective Dates

A handwritten signature in blue ink, appearing to read "Dana S. Haman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc.

490 Rowley Road

Depew, NY 14043

Ms. Rhonda McGee

Phone: (716) 651-0030 Fax: (716) 651-0394

Email: rmcgee@emsl.com

<http://www.emsl.com/>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200056-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

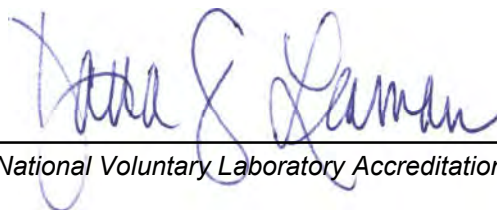
Airborne Asbestos Analysis

Code

Description

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program



Photo 1 – Work Zone Traffic Control (WZTC) was conducted by U.S. Traffic Control.

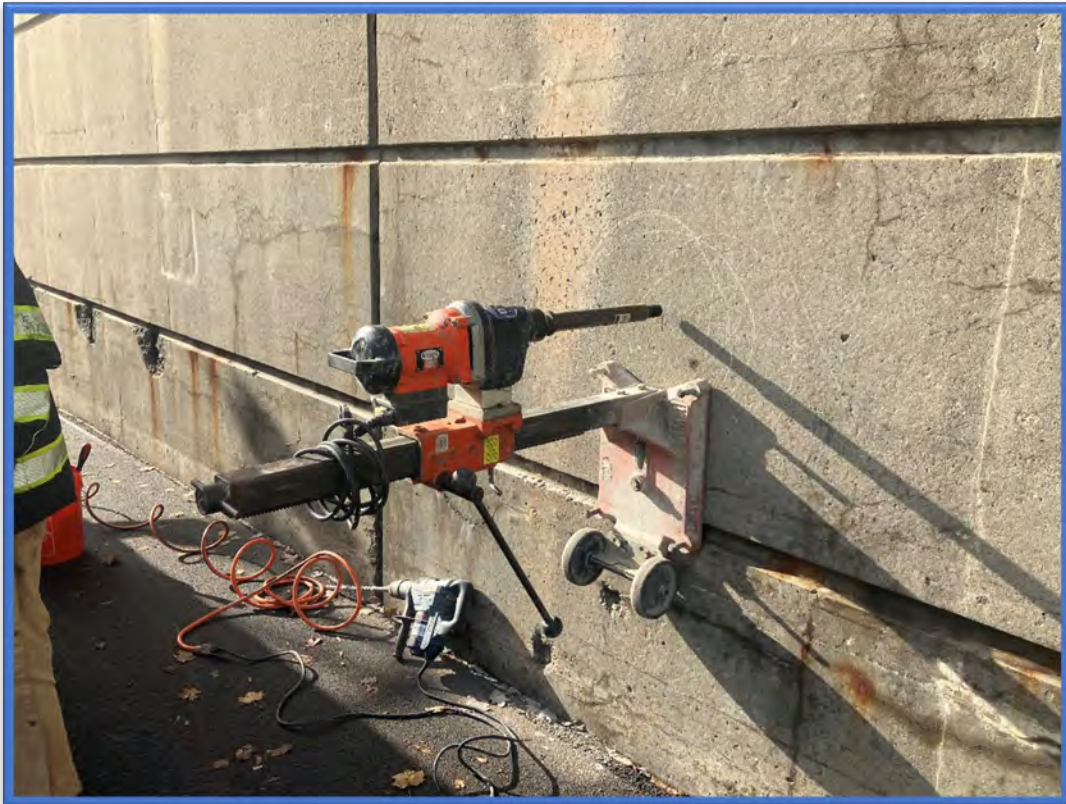


Photo 2 – Coring tool attached to the retaining wall prior to coring.

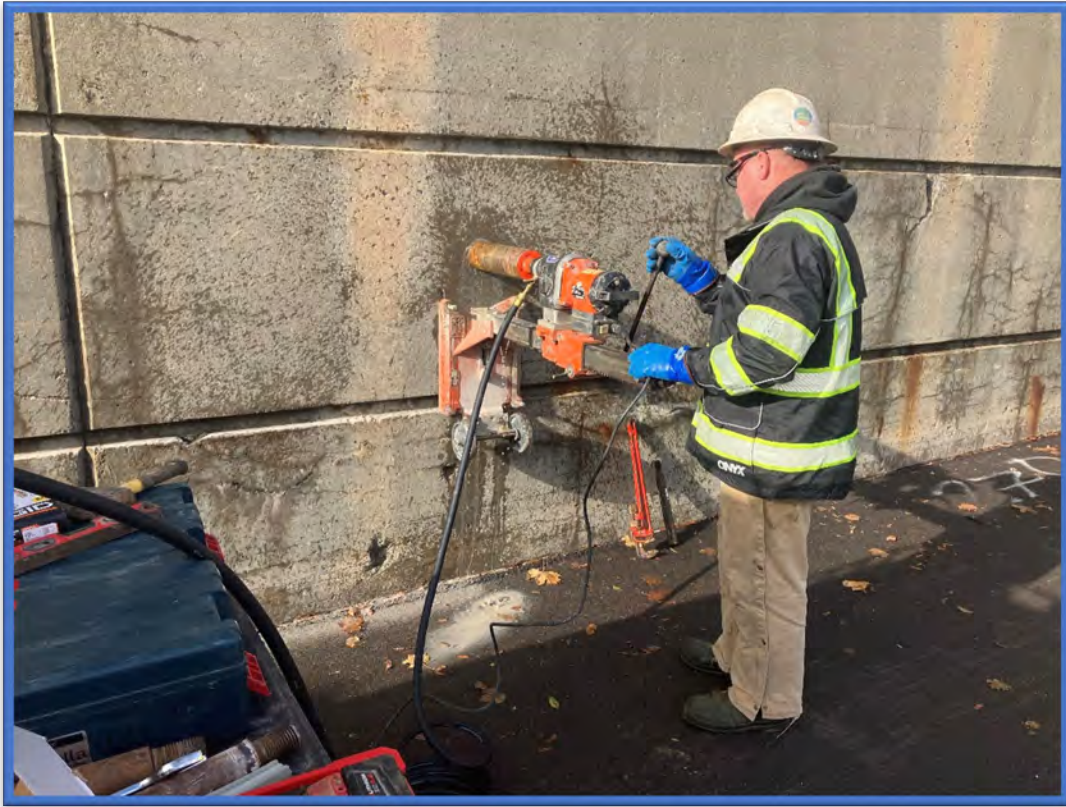


Photo 3 – Coring through the retaining wall.



Photo 4 – Waterproofing tar located on the back of the retaining walls.




Photo 5 – Complete retaining wall core.



Photo 6 – Inside of the retaining wall core hole with stone visible on the back side.



WE ARE YOUR DOL

 Department
of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226


ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
95 Perry Street, Suite 300, Buffalo, NY, 14203

License Number: 68007
License Class: RESTRICTED
Date of Issue: 08/30/2023
Expiration Date: 09/30/2024
Duly Authorized Representative: Kevin Janik

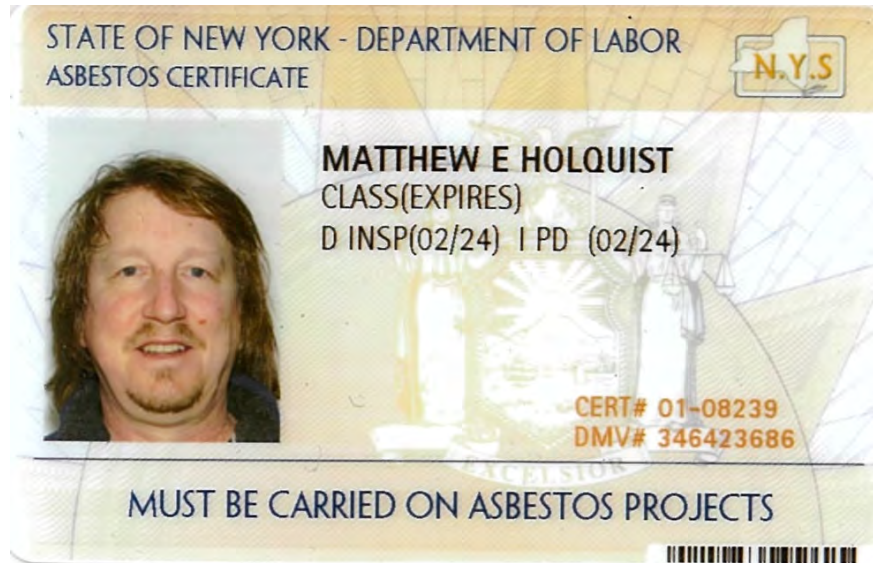
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Amy Phillips, Director
For the Commissioner of Labor

SH 432 (1/2/1)



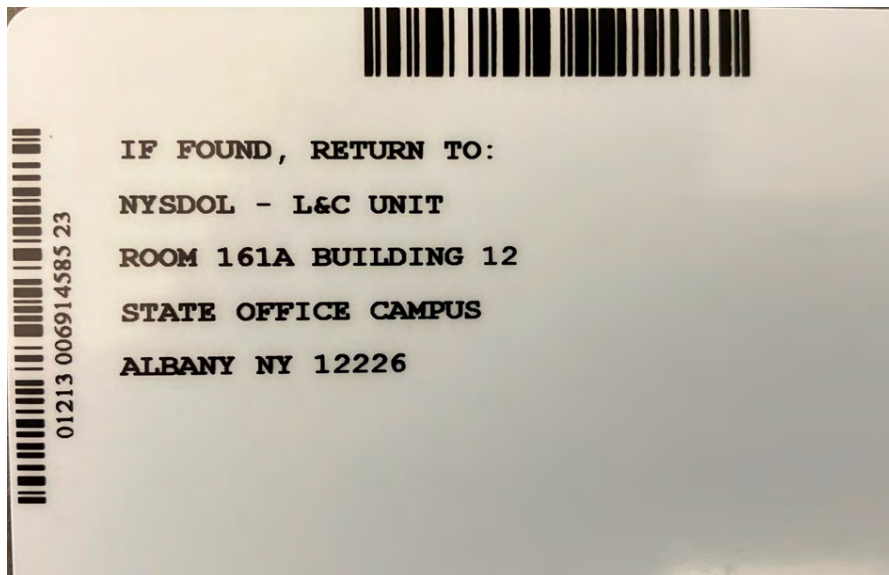
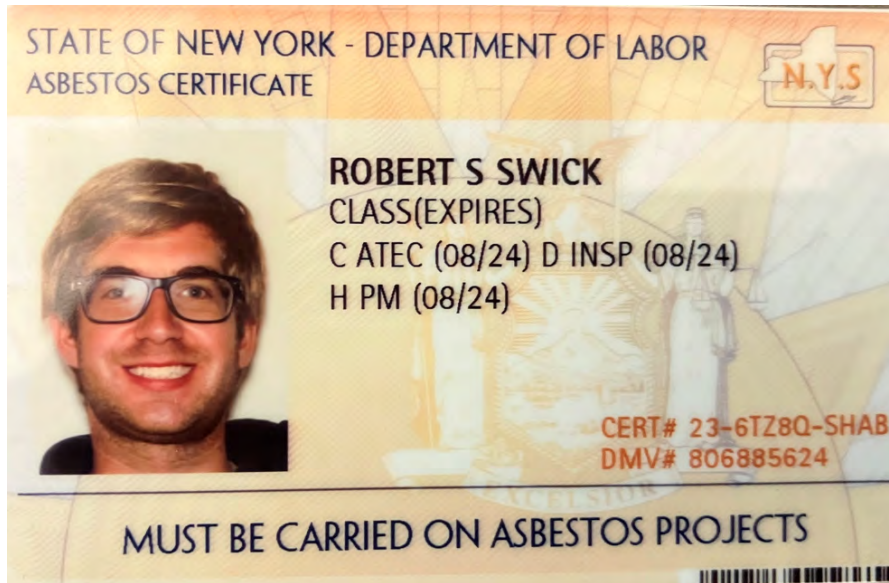
01213 006771388 34

EYES BLU
HAIR BLN
HGT 5' 11"

IF FOUND RETURN TO:
NYS DOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

Matthew E. Holquist

D - Inspector
I - Project Designer



Robert Swick

C - Air Sampling Technician
D - Inspector
H - Project Monitor