

Project: **Glenmont Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.06
Calculated By: J. Landry Date: 7/6/2026
Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. 206.01 ITEM NAME: STRUCTURE EXCAVATION UNIT: CY

Drawing / Detail References: _____

Calculations:

REPAIRING SUBSTRUCTURE LOCATIONS BELOW GRADE:

	LENGTH			WIDTH			DEPTH							
Pier 3 Loc 5	4.00	FT	x	3.00	FT	x	1.25	FT	=	15.0	CF	=	0.6	CY

Total 0.56 CY

SAY 1 CY

SHEET 1 OF 1

Estimated Quantity:

1 CY

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.06
 Calculated By: J. Landry Date: 8/13/2026
 Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. **555.0021** ITEM NAME: **CONCRETE FOR STRUCTURES, PERFORMANCE** UNIT: **CY**

Drawing / Detail References: _____

Calculations:

JOINTS: *values measured in CADD -- drawings are to scale

	LENGTH			WIDTH			DEPTH			VOLUME		
BA	33.08	FT	x	1	FT	x	0.42	FT	=	13.89	CF	= 0.51 CY
P1	33.08	FT	x	2.83	FT	x	1.25	FT	=	117.02	CF	= 4.33 CY
P2	33.08	FT	x	1	FT	x	1	FT	=	33.08	CF	= 1.23 CY
P3	33.08	FT	x	2.83	FT	x	1.25	FT	=	117.02	CF	= 4.33 CY
EA	33.08	FT	x	1	FT	x	0.42	FT	=	13.89	CF	= 0.51 CY
											10.92	CY TOTAL JOINTS

Total 10.92 CY

SAY 11 CY

SHEET 1 OF 1

Estimated Quantity: **11 CY**

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.06
 Calculated By: J. Landry Date: 7/9/2026
 Checked By: J. Adamczak Date: 8/16/2026

QUANTITY WORKUPS

ITEM NO. **556.0202** ITEM NAME: **EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES** UNIT: **LB**

Drawing / Detail References: _____

Calculations:

Rebar for Joint Headers: 11.00 CY x 50 LB/CY = 550 LB

Rebar for Conc Repairs: 5.00 CY x 50 LB/CY = 250 LB

Total 800.00 LB

SAY 800 LB

SHEET 1 OF 1

Estimated Quantity:

800 LB

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.06
 Calculated By: J. Landry Date: 2/2/2026
 Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. **559.03** ITEM NAME: **PROTECTIVE SEALING OF EXISTING STRUCTURAL CONCRETE AND EXISTING** UNIT: **SF**

Drawing / Detail References: _____

Calculations:

LENGTH				WIDTH				
1	x	235.05	FT	x	33.00	FT	=	7756.7 SF top of superstructure slab
2	x	235.05	FT	x	1.56	FT	=	733.36 SF fascias
2	x	235.05	FT	x	2.06	FT	=	968.41 SF underside of overhangs
TOTAL =								9458.4 SF superstructure

HEIGHT				WIDTH				
1.76	FT	x	34.36	FT	=	60.5	SF	begin abutment
8.54	FT	x	16.73	FT	=	142.9	SF	begin abutment left ww
8.54	FT	x	17.10	FT	=	146.0	SF	begin abutment right ww
13.00	FT	x	37.80	FT	=	491.4	SF	pier 1 legs
18.00	FT	x	32.13	FT	=	578.3	SF	pier 1 cap
12.25	FT	x	37.80	FT	=	463.1	SF	pier 2 legs
18.00	FT	x	32.13	FT	=	578.3	SF	pier 2 cap
11.50	FT	x	37.80	FT	=	434.7	SF	pier 3 legs
18.00	FT	x	32.13	FT	=	578.3	SF	pier 3 cap
2.25	FT	x	34.36	FT	=	77.3	SF	end abutment
8.27	FT	x	16.73	FT	=	138.4	SF	end abutment left ww
8.31	FT	x	17.10	FT	=	142.1	SF	end abutment right ww
TOTAL =								3831.0 SF substructures

LENGTH				WIDTH				
20.00	FT	x	20.00	FT	=	400.0	SF	begin approach
20.00	FT	x	20.00	FT	=	400.0	SF	end approach
								800.0 SF approaches

							Total	14,089.46	SF
TOTAL =							14089.5	SF superstructure + substructures + approaches	SAY 15,498 SF

SHEET 1 OF 1

Estimated Quantity:

15500

SF

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.06
 Calculated By: J. Landry Date: 1/28/2026
 Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. **564.510002** ITEM NAME: **STRUCTURAL STEEL** UNIT: **LB**

Drawing / Detail References: _____

Calculations:

Location 1:

6x6x1/2 angle @ 2.61' ht * 4 req'd =

@ 19.6 lbs / ft = 204.62 lbs

1/2" Plate @ 28" high x 30" long =

@ 4 req'd = 476.39 lbs

1/2" Plate @ 10"x12"

@ 2 req'd = 34.03 lbs

Location 2:

6x6x1/2 angle @ 2.61' ht * 6 req'd =

@ 19.6 lbs / ft = 306.94 lbs

1/2" Plate @ 28" high x 30" long =

@ 6 req'd = 714.58 lbs

1/2" Plate @ 10"x12"

@ 4 req'd = 68.06 lbs

C15x33.9 @ 8.08' = 273.91 lbs

Location 3:

6x6x1/2 angle @ 2.61' ht * 4 req'd =

@ 19.6 lbs / ft = 204.62 lbs

1/2" Plate @ 28" high x 30" long =

@ 4 req'd = 476.39 lbs

1/2" Plate @ 10"x12"

@ 2 req'd = 34.03 lbs

Location 4:

6x6x1/2 angle @ 2.61' ht * 4 req'd = TOTAL ALL LOCATIONS: 3802.52 lbs

@ 19.6 lbs / ft = 204.62 lbs add 10% for bolts: 4182.8 lbs

1/2" Plate @ 28" high x 30" long =

@ 4 req'd = 476.39 lbs

1/2" Plate @ 10"x12"

@ 2 req'd = 34.03 lbs Total 4182.77

C15x33.9 @ 8.67' = 293.91 lbs **SAY 4500.00**

Project: **Glenmont Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.06
Calculated By: J. Landry Date: 1/28/2026
Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. 567.63 ITEM NAME: BRIDGE JOINT SEAL UNIT: LF

Drawing / Detail References: _____

Calculations:

33 FT begin abutment

33 FT pier 1

33 FT pier 2

33 FT pier 3

33 FT end abutment

Subtotal 165.39 LF

Add 5% 8.27 LF

Total 173.65 LF

SAY 174 LF

SHEET 1 OF 1

Estimated Quantity:

174

LF

Project: **Glenmont Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.06
Calculated By: J. Landry Date: 1/29/2026
Checked By: J. Adamczak Date: 8/16/2026

QUANTITY WORKUPS

ITEM NO. 570.04 ITEM NAME: DECONTAMINATION FACILITIES UNIT: CW

Drawing / Detail References: _____

Calculations:

ASSUME 4 WEEKS FOR PAINTING OPERATIONS

SAY 4 CW

SHEET 1 OF 1

Estimated Quantity: 4 CW

Project: **Glenmont Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.06
Calculated By: J. Landry Date: 1/29/2026
Checked By: J. Adamczak Date: 8/16/2026

QUANTITY WORKUPS

ITEM NO. 571.03 ITEM NAME: DISPOSAL OF HAZARDOUS PAINT REMOVAL WASTE CONTAINING LEAD UNIT: LB

Drawing / Detail References: _____

Calculations:

ASSUME 10 LB OF COAL SLAG ABRASIVE USED PER SQUARE FOOT

ASSUME 35% OF ABRASIVE USED IS DISPOSED AS WASTE

ASSUME 3.5 LB OF COAL SLAG ABRASIVE USED PER SQUARE FOOT

REMOVING 11,360 SQUARE FEET OF PAINTED SURFACES

EQUALS 39,760 LB OF ABRASIVE TO DISPOSE

SAY 39,760 LB

SHEET 1 OF 1

Estimated Quantity: 39760 LB

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.06
 Calculated By: J. Landry Date: 8/13/2026
 Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. 580.01 ITEM NAME: REMOVAL OF STRUCTURAL CONCRETE UNIT: CY

Drawing / Detail References: _____

Calculations:

JOINTS: *values measured in CADD -- drawings are to scale

	LENGTH			WIDTH			DEPTH			VOLUME		
BA	33.08	FT	x	1	FT	x	0.42	FT	=	13.89	CF	= 0.51 CY
P1	33.08	FT	x	2.83	FT	x	1.25	FT	=	117.02	CF	= 4.33 CY
P2	33.08	FT	x	1	FT	x	1	FT	=	33.08	CF	= 1.23 CY
P3	33.08	FT	x	2.83	FT	x	1.25	FT	=	117.02	CF	= 4.33 CY
EA	33.08	FT	x	1	FT	x	0.42	FT	=	13.89	CF	= 0.51 CY
											10.92	CY TOTAL JOINTS

Total 10.92 CY

SAY 11 CY

SHEET 1 OF 1

Estimated Quantity: **11 CY**

Project: Glenmont Rd Bridge Rehabilitation
Client: Thruway Job No.: ALB-2300017.05
Calculated By: J. Landry Date: 6/30/2026
Checked By: J. Adamczak Date: 10/14/2026

QUANTITY WORKUPS

ITEM NO. 582.0051 ITEM NAME: REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE UNIT: CY

Drawing / Detail References: _____

Calculations:

DECK SURFACE LOCATIONS:

LENGTH		WIDTH		DEPTH							
4.50	FT	x	3.50	FT	x	0.50	FT	=	7.9	CF	= 0.29 CY deck top surface spalling location 1
3.00	FT	x	3.00	FT	x	0.50	FT	=	4.5	CF	= 0.17 CY deck top surface spalling location 2
3.00	FT	x	3.00	FT	x	0.50	FT	=	4.5	CF	= 0.17 CY deck top surface spalling location 3
										0.63	CY total superstructure areas

ABUTMENT LOCATIONS:

HEIGHT		WIDTH		DEPTH							
1.00	FT	x	1.00	FT	x	0.25	FT	=	0.3	CF	= 0.01 CY BA loc 1
1.00	FT	x	1.00	FT	x	0.25	FT	=	0.3	CF	= 0.01 CY EA loc 1
1.50	FT	x	6.00	FT	x	0.25	FT	=	2.3	CF	= 0.08 CY EA loc 2
2.00	FT	x	2.00	FT	x	0.25	FT	=	1.0	CF	= 0.04 CY EA loc 3
2.00	FT	x	1.00	FT	x	0.25	FT	=	0.5	CF	= 0.02 CY EA loc 4
1.00	FT	x	1.00	FT	x	0.25	FT	=	0.3	CF	= 0.01 CY EA loc 5
										0.17	CY TOTAL ABUTMENTS

Total 0.79 CY

Sheet Total: SAY 1 CY

SHEET 1 OF 3

Estimated Quantity: **CY**

Job No.: ALB-2300017.05Date: 6/30/2026Date: 10/14/2026

QUANTITY WORKUPS

ITEM NO. 582.0051

ITEM NAME: REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE

UNIT: CY

Drawing / Detail References:

Calculations:

PIER 1:

HEIGHT			WIDTH			DEPTH							
3.00	FT	x	1.00	FT	x	0.25	FT	=	0.8	CF	=	0.03	CY P1 loc 1
5.00	FT	x	2.50	FT	x	0.25	FT	=	3.1	CF	=	0.12	CY P1 loc 2
2.00	FT	x	3.50	FT	x	0.25	FT	=	1.8	CF	=	0.06	CY P1 loc 3
1.00	FT	x	2.00	FT	x	0.25	FT	=	0.5	CF	=	0.02	CY P1 loc 4
2.00	FT	x	3.00	FT	x	0.25	FT	=	1.5	CF	=	0.06	CY P1 loc 5
2.00	FT	x	6.00	FT	x	0.25	FT	=	3.0	CF	=	0.11	CY P1 loc 6
5.00	FT	x	3.00	FT	x	0.25	FT	=	3.8	CF	=	0.14	CY P1 loc 7
5.00	FT	x	2.00	FT	x	0.25	FT	=	2.5	CF	=	0.09	CY P1 loc 8
3.00	FT	x	1.00	FT	x	0.25	FT	=	0.8	CF	=	0.03	CY P1 loc 9
4.00	FT	x	2.00	FT	x	0.25	FT	=	2.0	CF	=	0.07	CY P1 loc 10
1.00	FT	x	5.00	FT	x	0.25	FT	=	1.3	CF	=	0.05	CY P1 loc 11
1.00	FT	x	3.00	FT	x	0.25	FT	=	0.8	CF	=	0.03	CY P1 loc 12
1.00	FT	x	12.00	FT	x	0.25	FT	=	3.0	CF	=	0.11	CY P1 loc 13
2.00	FT	x	3.00	FT	x	0.25	FT	=	1.5	CF	=	0.06	CY P1 loc 14
3.00	FT	x	2.00	FT	x	0.25	FT	=	1.5	CF	=	0.06	CY P1 loc 15
3.00	FT	x	2.00	FT	x	0.25	FT	=	1.5	CF	=	0.06	CY P1 loc 16
											1.08	CY TOTAL PIER 1	

Total	1.08	CY
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Sheet Total: SAY 2 CY

SHEET 2 OF 3

Estimated Quantity:

CY

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.05
 Calculated By: J. Landry Date: 6/30/2026
 Checked By: J. Adamczak Date: 8/16/2026

QUANTITY WORKUPS

ITEM NO. 582.0051 ITEM NAME: REMOVAL AND REPLACEMENT OF STRUCTURAL CONCRETE UNIT: CY

Drawing / Detail References: _____

Calculations:

PIER 3:

HEIGHT		WIDTH		DEPTH							
3.00	FT	x	7.00	FT	x	0.25	FT	=	5.3	CF	= 0.19 CY P3 loc 1
4.00	FT	x	4.00	FT	x	0.25	FT	=	4.0	CF	= 0.15 CY P3 loc 2
1.00	FT	x	5.00	FT	x	0.25	FT	=	1.3	CF	= 0.05 CY P3 loc 3
1.00	FT	x	10.00	FT	x	0.25	FT	=	2.5	CF	= 0.09 CY P3 loc 4
16.75	FT	x	4.00	FT	x	0.25	FT	=	16.8	CF	= 0.62 CY P3 loc 5
3.00	FT	x	4.00	FT	x	0.25	FT	=	3.0	CF	= 0.11 CY P3 loc 6
1.25	FT	x	18.00	FT	x	0.25	FT	=	5.6	CF	= 0.21 CY P3 loc 7
1.00	FT	x	2.00	FT	x	0.25	FT	=	0.5	CF	= 0.02 CY P3 loc 8
1.00	FT	x	2.50	FT	x	0.25	FT	=	0.6	CF	= 0.02 CY P3 loc 9

1.46 CY TOTAL PIER 3

Total 1.46 CY

Sheet Total: SAY 2 CY

SHEET 3 OF 3

Total Estimated Quantity:

5

CY

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.05
 Calculated By: J. Landry Date: 1/29/2026
 Checked By: J. Adamczak Date: 9/30/2026

QUANTITY WORKUPS

ITEM NO. 585.04 ITEM NAME: Str. Lifting UNIT: EA

Drawing / Detail References: _____

Calculations:

1 EA Pier 3

Subtotal 1.00 EA

Add 10% 0.00 EA

Total 1.00 EA

SAY 1 EA

SHEET 1 OF 1

Estimated Quantity: **1 EA**

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.07
 Calculated By: J. Landry Date: 7/9/2026
 Checked By: R. Myers Date: 10/14/2026

QUANTITY WORKUPS

ITEM NO. 589.010002 ITEM NAME: REMOVAL OF EXISTING STEEL UNIT: LB

Drawing / Detail References: _____

Calculations:

Assume 490 LB / CF of steel

Lockup Plates, Girders 4, 5, & 6 at Pier 2

Dimensions approximated from inspection report photos

# Plates	Length	Width	Thickness	
3.00 X	0.25 FT X	1.00 FT X	0.08 FT =	0.06 CF X 490 LB/CF = 30.63 LB

Location 1:

(A)7.5" X 31.4" Bearing Stiffener =

@ 4 Req'd = 133.56 lbs

Location 2:

(A)7.5" X 31.4" Bearing Stiffener =

@ 6 Req'd = 200.34 lbs

(B)15C33.9 Diaphragm @ 9.5' = 322.05 lbs

Location 3:

(A)7.5" X 31.4" Bearing Stiffener =

@ 4 Req'd = 133.56 lbs

Location 4:

(A)7.5" X 34" Bearing Stiffener =

@ 4 Req'd = 133.56 lbs

(B)15C33.9 Diaphragm @ 9.5' = 322.05 lbs

TOTAL ALL LOCATIONS: 1275.74 lbs

add 10% for bolts: 1403.31 lbs

Total 1,403.31 LB

SAY 1,500 LB

SHEET 1 OF 1

Estimated Quantity: **1500 LB**

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.05
 Calculated By: J. Landry Date: 1/29/2026
 Checked By: R. Myers Date: 8/26/2026

QUANTITY WORKUPS

ITEM NO. 606.53 ITEM NAME: RESETTING BOX BEAM GUIDE RAILING UNIT: LF

Drawing / Detail References: _____

Calculations:

Reset guiderail posts begin and end abutments right: 20 LF

Subtotal 20.00 LF

Add 10% LF

Total 20.00 LF

SAY 20 LF

SHEET 1 OF 1

Estimated Quantity: **20 LF**

Project: **Glenmont Rd Bridge Rehabilitation**
 Client: Thruway Job No.: ALB-2300017.05
 Calculated By: J. Landry Date: 1/29/2026
 Checked By: R. Myers Date: 3/17/2026

QUANTITY WORKUPS

ITEM NO. 609.04 ITEM NAME: CAST-IN-PLACE CONCRETE CURB (AS DETAILED) UNIT: LF

Drawing / Detail References: _____

Calculations:

6 FT right near begin abutment

10 FT right near pier 1

Subtotal 16.00 LF

Add 10% 1.60 LF

Total 17.60 LF

SAY 18 LF

SHEET 1 OF 1

Estimated Quantity: **18 LF**

Project: **Glenmont Rd Bridge Rehabilitation**
Client: Thruway Job No.: ALB-2300017.05
Calculated By: J. Landry Date: 1/29/2026
Checked By: R. Myers Date: 3/17/2026

QUANTITY WORKUPS

ITEM NO. 609.06000008 ITEM NAME: CURB REMOVAL

UNIT: LF

Drawing / Detail References: _____

Calculations:

6 FT right near begin abutment

10 FT right near pier 1

Subtotal 16.00 LF

Add 10% 1.60 LF

Total 17.60 LF

SAY 18 LF

SHEET 1 OF 1

Estimated Quantity: **18 LF**