



# Replacement of Patriots Way Bridge Superstructure

February 29, 2024



# The History of Patriots Way Bridge

- Patriots Way Bridge was constructed between 1995 and 1996. During an inspection in 2015, structural issues were noted. Over the following years repairs were made to fix the noted issues however other components continue to deteriorate rapidly.
- Cause of deterioration was the type of steel used in the bridge construction.
- NJDOT undertook significant repairs but the bridge continued to deteriorate.
- In 2023 a 3-ton restriction was placed on the bridge and on December 21, 2023 the crossing was deemed unsafe by the Borough Engineer and closed.



# The Restoration of Patriots Way Bridge

- Decision was made to replace the entire superstructure of the bridge and grant funding was pursued.
- The Borough authorized Boswell Engineering to design and secure environmental permits on May 27, 2020.
- The Environmental Permits were secured on May 4, 2021 while the design was completed in October 2023.
- The Borough secured grant funding to pay for 100% of all costs as of September 2023

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Project Bid:	November 21, 2023
Winning Bid from Konkus Construction:	\$4,776,150.92
Contract Awarded:	December 20, 2023
Pre-Construction Meeting Held on:	February 6, 2024



# Project Schedule

- The project is scheduled to take 700 calendar days with the completion date of January 6, 2026.
- The bridge manufacturer was involved in the install design process to expedite the construction schedule.
- Delivery of the Bridge expected July 2024.
- Bridge will be made of galvanized steel.
- Two Utility relocations (Temporary and Final) are major scheduling factors resulting in the 700 day timeline.
- The Bridge will remain closed during the construction process.



# UTILITY NOTES:

- UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION AND COMPLETENESS. THE CONTRACTOR SHALL CALL THE NEW JERSEY ONE-CALL PLANT LOCATIONS SERVICE AT 1-800-272-1000 FOR UTILITY MARKOUT AT LEAST FIVE (5) FULL WORKING DAYS, BUT NOT MORE THAN TEN (10) WORKING DAYS, PRIOR TO EXCAVATING.
- UTILITY LOCATIONS MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION TO AVOID DISRUPTION OF SERVICE. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE RE. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE RE AND THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED OF ANY CONFLICTS FOUND IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITY COMPANIES TO ARRANGE FOR ALL UTILITY WORK ESSENTIAL FOR THE COMPLETION OF THE PROJECT AND TO DETERMINE EACH COMPANY'S SCHEDULE FOR THE RELOCATION AND/OR INSTALLATION OF THEIR FACILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING UTILITY WORK SO THAT ANY CONTRACT WORK TO BE PERFORMED BY THE CONTRACTOR DOES NOT INTERFERE WITH OR DELAY THE EFFORTS OF THE UTILITY COMPANIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES PRIOR TO PROCEEDING WITH ANY WORK IN THE AREAS OF AERIAL OR UNDERGROUND UTILITIES.
- ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES DURING CONSTRUCTION. CARE SHALL BE TAKEN SO THAT ALL EXISTING UTILITIES ARE PROTECTED AND KEPT OPERATIONAL. THE CONTRACTOR SHALL TEMPORARILY SUPPORT OR RELOCATE UTILITIES AS NECESSARY FOR CONSTRUCTION AS INDICATED IN THE PROPOSAL. ANY DAMAGE TO EXISTING UTILITIES OR SERVICES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE ALL PERMANENT RELOCATIONS WITH THE LOCATION OF THE BEAM GUIDE RAIL AS TO NOT AFFECT THE POST SPACING, POST EMBEDMENT LENGTH, OR BRIDGE ATTACHMENTS IN ANY WAY.
- REFER TO ADDITIONAL PLANS FOR TEMPORARY AND/OR PERMANENT UTILITY RELOCATIONS AND TEMPORARY UTILITY SUPPORT ACCOMMODATIONS.

CONSTRUCT	
70	S.Y. CONCRETE SIDEWALK, 4" THICK
0.9	S.Y. DETECTABLE WARNING SURFACE
4	L.F. 9" X 18" CONCRETE VERTICAL CURB
170	L.F. BELGIAN BLOCK CURB
25.0	L.F. BEAM GUIDE RAIL
1	UNIT APPROACH GUIDE RAIL TRANSITION, TL-2
1	UNIT TANGENT GUIDE RAIL TERMINAL
8.25	S.F. REGULATORY AND WARNING SIGN

CONSTRUCT	
110	L.F. CHAIN-LINK FENCE, PVC-COATED STEEL, 4" HIGH
50	S.Y. CONCRETE SIDEWALK, 4" THICK
0.9	S.Y. DETECTABLE WARNING SURFACE
4	L.F. 9" X 18" CONCRETE VERTICAL CURB
195	L.F. BELGIAN BLOCK CURB
125.0	L.F. BEAM GUIDE RAIL
1	UNIT APPROACH GUIDE RAIL TRANSITION, TL-2
1	UNIT TANGENT GUIDE RAIL TERMINAL
8.25	S.F. REGULATORY AND WARNING SIGN
1	UNIT RESET GAS VALVE BOX
1	UNIT RESET JUNCTION BOX CASTING

CONSTRUCT	
585	S.Y. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK
90	GAL. TACK COAT
145	GAL. PRIME COAT
150	TON HOT MIX ASPHALT 19M64 BASE COURSE
75	TON HOT MIX ASPHALT 12.5M64 SURFACE COURSE
1	UNIT INLET, TYPE B
2	UNIT RECONSTRUCTED INLET, TYPE B, USING NEW CASTING
470	L.F. TRAFFIC MARKINGS LINES, 4"

CONSTRUCT	UNIT	RESET EXISTING CASTING CURB PIECE
235	L.F.	BELGIAN BLOCK CURB
150.0	L.F.	BEAM GUIDE RAIL
1	UNIT	TANGENT GUIDE RAIL TERMINAL

MATCH LINE STATION 10+75

ITEM	TO BE CONSTRUCTED	UNIT	QUANTITY
19	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	1,115
20	TACK COAT	GAL.	170
21	PRIME COAT	GAL.	280
22	HOT MIX ASPHALT 19M64 BASE COURSE	TON	290
23	HOT MIX ASPHALT 12.5M64 SURFACE COURSE	TON	145
36	INLET, TYPE B	UNIT	1
37	RESET EXISTING CASTING	UNIT	2
38	RECONSTRUCTED INLET, TYPE B, USING NEW CASTING	UNIT	2
39	RECONSTRUCTED INLET, TYPE E, USING NEW CASTING	UNIT	1
40	CURB PIECE	UNIT	2
42	CHAIN-LINK FENCE, PVC-COATED STEEL, 4" HIGH	L.F.	110
43	CONCRETE SIDEWALK, 4" THICK	S.Y.	120
44	DETECTABLE WARNING SURFACE	S.Y.	1.8
45	9" X 18" CONCRETE VERTICAL CURB	L.F.	8
46	BELGIAN BLOCK CURB	L.F.	600
47	BEAM GUIDE RAIL	L.F.	350.0
48	APPROACH GUIDE RAIL TRANSITION, TL-2	UNIT	4
49	TANGENT GUIDE RAIL TERMINAL	L.F.	5
50	BEAM GUIDE RAIL ANCHORAGE	L.F.	1
51	TRAFFIC MARKINGS LINES, 4"	L.F.	1,900
52	REGULATORY AND WARNING SIGN	S.F.	16.50
61	RESET GAS VALVE BOX	UNIT	2
62	RESET JUNCTION BOX CASTING	UNIT	2

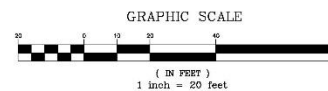
CONSTRUCT	
1,060	L.F. TRAFFIC MARKINGS LINES, 4"

CONSTRUCT	
1	UNIT RESET EXISTING CASTING
50.0	L.F. RECONSTRUCTED INLET, TYPE E, USING NEW CASTING
2	UNIT BEAM GUIDE RAIL
1	UNIT APPROACH GUIDE RAIL TRANSITION, TL-2
1	UNIT TANGENT GUIDE RAIL TERMINAL
1	UNIT RESET GAS VALVE BOX
1	UNIT RESET JUNCTION BOX CASTING

REMOVE RIPRAP, AS REQUIRED, TO INSTALL BOR POSTS. REINSTALL RIPRAP TO FINAL GRADE PRIOR TO INSTALLATION OF BOR ELEMENT.

TANGENT GUIDE RAIL TERMINAL (TYP.)

MEET EXISTING STRIPING (TYP.)



CONSTRUCT	
530	S.Y. DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK
80	GAL. TACK COAT
135	GAL. PRIME COAT
140	TON HOT MIX ASPHALT 19M64 BASE COURSE
70	TON HOT MIX ASPHALT 12.5M64 SURFACE COURSE
370	L.F. TRAFFIC MARKINGS LINES, 4"

KEVIN J. BOSWELL

CHRISTOPHER J. NASH

SUPERSTRUCTURE REPLACEMENT OF PATRIOTS WAY BRIDGE  
OVER RAMAPO RIVER  
CONSTRUCTION PLAN  
BOROUGH OF OAKLAND

BERGEN COUNTY		NEW JERSEY	
SURVEYED BY: JAM	CHECKED BY: CN	SCALE: 1"=20'	DATE: 06/17/23
CAJOB FILED OK-1713-CP		SHEET 4 OF 33	



**BOSWELL ENGINEERING**

RES - SURVEYORS - PLANNERS - SCIENTISTS  
330 PHILLIPS AVENUE, SOUTH HACKENSACK, N.J. 07606  
TEL: (201) 641-0770 • FAX: (201) 641-1831  
N.J. CERTIFICATE OF AUTHORIZATION NO. 246A27958000

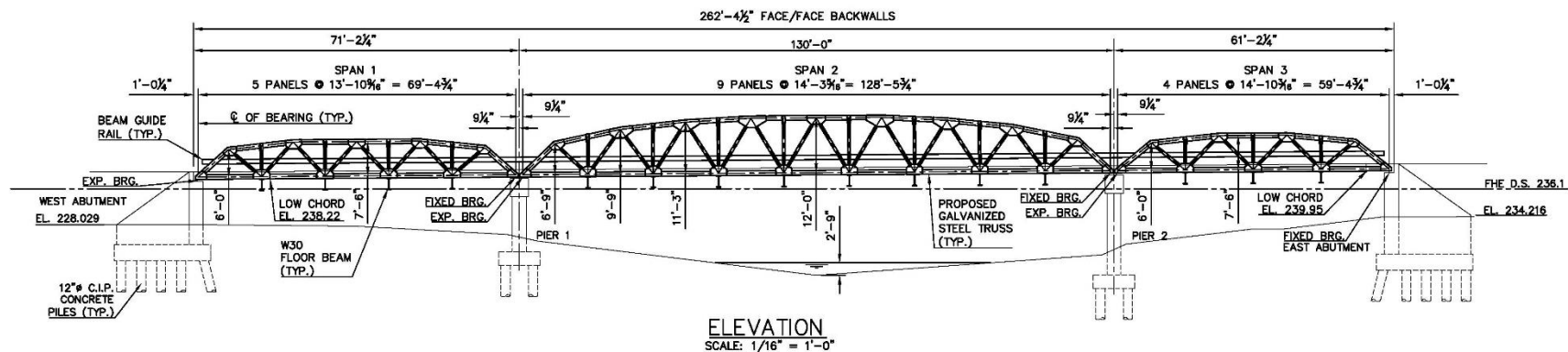
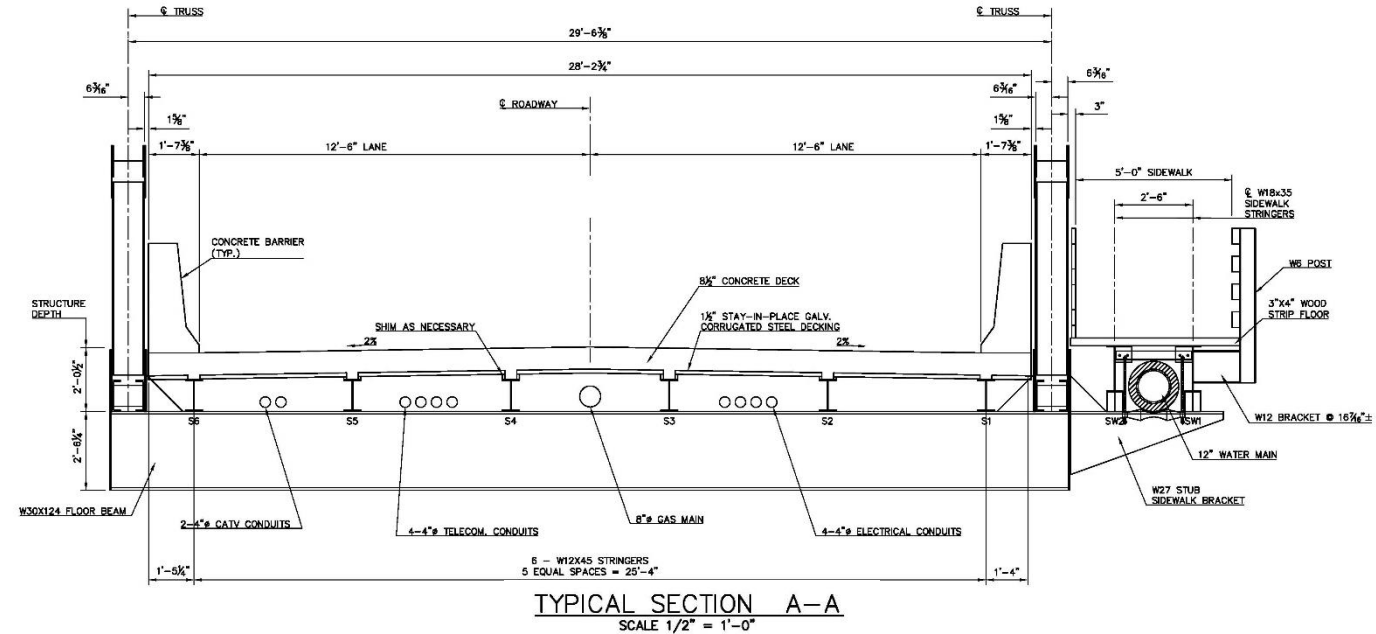
PROFESSIONAL ENGINEER N.J. LIC. 32943

PROFESSIONAL RE N.J. LIC. 31605

NO.	DATE	DESCRIPTION	SURVEYED	DRAWN	DESIGNED	CHECKED
1	10/1/2023	1:16 PM	JAM	JAM	JAM	JAM



# Proposed Bridge Profiles



# Traffic

- The Glen Grey and Truman Blvd. entrances will be open during construction.
- These access routes will be improved in the spring of 2024.
  - Resurfacing
  - Reflectors
  - Parabolic Mirror for Glen Grey / Rt. 202 Intersection
- OPD will continue heightened activity in the area
  - Since May 2023 – 148 radar and traffic enforcement details, 42 summonses and 53 warnings
  - Speed trailer on Ramapo River Trace
- Glen Grey Gate to be closed once PW Bridge is open. Lenape Bridge Repair project to follow – Truman gate to be closed upon completion of those repairs.

# Communication

- Quarterly Updates will be provided
  - Borough Website
  - E-mail
- Issues or Concerns? Contact the Mayor, Administrator or Engineer.



Questions?

