

**PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ON BEHALF OF
THE GATEWAY DEVELOPMENT COMMISSION**

May 18, 2023

ADDENDUM NO. 14

TO PROSPECTIVE BIDDERS ON CONTRACT **GDC23-002** –Gateway Development Commission - Tonnelle Avenue Overhead Bridge and Utility Relocations

The following changes are hereby made in the Contract Documents for the subject Contract.

CHANGES IN THE CONTRACT BOOKLET

1. **Attachment A – Bid Form** - Delete entire form and substitute with new Attachment A – Bid Form, dated May 16, 2023, attached hereto and made a part hereof.
2. **Clause 166 – CONTRACT DRAWINGS** – Remove the original Contract Drawings marked under column Rev. C, dated 05/16/2023 on the List of Revised Contract Drawings and replace with the new revised Contract Drawings, which are attached hereto and made a part hereof.
3. **CONTRACT SPECIFICATIONS** – Remove the original Contract Specifications listed below and replace with the new revised Contract Specifications, dated May 2023, which are attached hereto and made a part hereof.
 - **SECTION 01 50 00 TEMPORARY FACILITIES AND CONTROLS**
 - **SECTION 02 81 00.13 STAGING, HANDLING, TRANSPORTATION, AND DISPOSAL OF HAZARDOUS MATERIALS**
4. **CLAUSE 77 RISKS ASSUMED BY THE CONTRACTOR** – Delete entire Clause and substitute with revised Clause 77 marked “Revised by Addendum No. 14”, which is attached hereto and made a part hereof.
5. **CLAUSE 78 NO THIRD PARTY RIGHTS** - Delete entire Clause and substitute with revised Clause 78 marked “Revised by Addendum No. 14”, which is attached hereto and made a part hereof.
6. **CLAUSE 79 INSURANCE PROCURED BY CONTRACTOR** - Delete entire Clause and substitute with revised Clause 79 marked “Revised by Addendum No. 14”, which is attached hereto and made a part hereof.

This communication should be submitted electronically and initialed by each bidder with his Bid. In case any bidder fails to conform to these instructions, his Bid will nevertheless be construed as though this communication had been so physically annexed and initialed.

PORT AUTHORITY OF NEW YORK AND NEW JERSEY

Joann Spirito
Assistant Director,
Procurement
The Port Authority of New York and New Jersey

INITIALLED BY THE BIDDER

ATTACHMENT A

BID FORM

Contract GDC23-002 - Gateway Development Commission - Tonnelle Avenue Overhead Bridge and Utility Relocations

For demolition of portions of an existing roadway and related structures and construction of a concrete bridge and other work at Tonnelle Avenue (Routes 1&9) located in the Township of North Bergen, Hudson County, New Jersey and all other work in connection with and incidental thereto, complete and in place, according to the Contract Documents.

Item No.	Description (Section)	Est. Qty.	Unit	Unit Price	Extended Amount
GENERAL AND SPECIAL PROVISIONS					
1.0	PERFORMANCE AND PAYMENT BOND (ITB)	1	LS	N/A	
1.1	MAINTENANCE OF ROADWAY AND PEDESTRIAN TRAFFIC (01 35 13.01)	1	LS	N/A	
1.2	LABORATORY TESTING AND INSPECTION (01 45 29)	1	ALW	N/A	\$ 190,000.00
1.3	FIELD OFFICE (01 50 00)	1	ALW	N/A	\$ 250,000.00
1.4	MOBILIZATION AND GENERAL REQUIREMENTS (01 71 13)	1	LS	N/A	
1.5	DIVISION 0 - PROCUREMENT AND CONTRACTING REQUIREMENTS AND DIVISION 1 - GENERAL REQUIREMENTS (ALL REMAINING WORK)	1	LS	N/A	
1.6	INCENTIVE PAYMENT FOR EARLY COMPLETION: \$9,100/DAY, MAXIMUM 60 DAYS, IN ACCORDANCE WITH CONTRACT PROVISIONS	1	ALW	Not to Exceed	\$ 546,000.00
1.7	SUPPLEMENTAL CONSTRUCTION COSTS (ITB - Clause 62)	1	ALW	N/A	\$5,000,000.00
1.8	POLICE TRAFFIC DIRECTOR(S) – Reimbursable Expense (Direct cost only, no overhead and profit)	1	ALW	N/A	\$250,000.00
1.9	TEMPORARY HIGHWAY LIGHTING (01 50 00)	1	ALW	N/A	\$20,000.00
1.10	COMMUNITY OUTREACH FACILITY (01 50 00)	1	ALW	N/A	\$100,000.00
DIVISION 2 - EXISTING CONDITIONS					
2.0	DEMOLITION WORK (02 41 00)	1	LS		
2.1	STAGING, HANDLING, TRANSPORTATION, AND DISPOSAL OF PETROLEUM CONTAMINATED MATERIALS (02 61 13.13)	4,200	Ton		
2.2	STAGING, HANDLING, TRANSPORTATION, AND DISPOSAL OF NON-HAZARDOUS AND NON-PETROLEUM CONTAMINATED MATERIALS (02 61 13.19)	12,045	Ton		
2.3	STAGING, HANDLING, TRANSPORTATION, AND DISPOSAL OF HAZARDOUS MATERIALS (02 81 00.13)	2,000	Ton		
2.4	ANALYTICAL TESTING OF SOIL AND GROUNDWATER (02 24 00)	1	LS		
2.5	DIVISION 2 - EXISTING CONDITIONS (ALL REMAINING WORK)	1	LS		
DIVISION 3 - CONCRETE					
3.0	ABUTMENT WALLS (03 11 13, 03 20 00, 03 30 00)	1	LS		
3.1	WING WALLS (03 11 13, 03 20 00, 03 30 00)	1	LS		
3.2	CENTER PIER (03 11 13, 03 20 00, 03 30 00)	1	LS		
3.3	UNDERPASS DECK SLAB INCLUDING CENTER AND END DIAPHRAGMS (03 11 13, 03 20 00, 03 30 00, 03 30 53)	1	LS		
3.4	APPROACH SLABS (03 11 13, 03 20 00, 03 30 00, 03 30 53)	1	LS		
3.5	FOOTINGS (03 11 13, 03 20 00, 03 30 00)	1	LS		
3.6	PARAPET WALLS (03 11 13, 03 20 00, 03 30 00)	1	LS		
3.7	DIVISION 3 - CONCRETE (ALL REMAINING WORK)	1	LS		
DIVISION 4 - MASONRY (NOT USED)					
DIVISION 5 - METALS					
5.0	UTILITY POLE SLEEVE (05 80 00)	95	LF		
5.1	DIVISION 5 - METALS (ALL REMAINING WORK)	1	LS		
DIVISION 6 - WOOD, PLASTICS AND COMPOSITES (NOT USED)					
DIVISION 7 - THERMAL AND MOISTURE PROTECTION (NOT USED)					
DIVISION 8 - OPENINGS (NOT USED)					
DIVISION 9 - FINISHES (NOT USED)					
DIVISION 10 - SPECIALTIES (NOT USED)					
DIVISION 11 - EQUIPMENT (NOT USED)					
DIVISION 12 - FURNISHINGS (NOT USED)					
DIVISION 13 - SPECIAL CONSTRUCTION (NOT USED)					
DIVISION 14 - CONVEYING EQUIPMENT (NOT USED)					
DIVISION 15 - MECHANICAL (NOT USED)					
DIVISION 16 - ELECTRICAL (NOT USED)					

ATTACHMENT A

BID FORM

Contract GDC23-002 - Gateway Development Commission - Tonnelle Avenue Overhead Bridge and Utility Relocations

For demolition of portions of an existing roadway and related structures and construction of a concrete bridge and other work at Tonnelle Avenue (Routes 1&9) located in the Township of North Bergen, Hudson County, New Jersey and all other work in connection with and incidental thereto, complete and in place, according to the Contract Documents.

Item No.	Description (Section)	Est. Qty.	Unit	Unit Price	Extended Amount
DIVISION 31 - EARTHWORK					
31.0	DEWATERING (31 23 19)	1	LS		
31.1	GEOTECHNICAL INSTRUMENTATION (31 09 13)	1	LS		
31.2	SITE GRADING (31 23 50)	1	LS		
31.3	EXCAVATION (31 23 50)	22600	CY		
31.4	EMBANKMENT (31 23 50)	12840	CY		
31.5	ROCK EXCAVATION (31 23 50)	4000	CY		
31.6	SOIL EROSION AND SEDIMENTATION CONTROL (31 25 00)	1	LS		
31.7	DIVISION 31 - EARTHWORK (ALL REMAINING WORK)	1	LS		
DIVISION 32 - EXTERIOR IMPROVEMENTS					
32.0	AGGREGATE BASE AND SUBBASE (32 11 23)	1	LS		
32.1	ASPHALT CONCRETE PAVING (32 12 16)	1	LS		
32.2	CONCRETE BARRIER CURB (32 16 14)	781	LF		
32.3	DRIVEWAY 6" (32 16 14)	1110	SF		
32.4	SIDEWALK 4" (32 16 14)	3996	SF		
32.5	CONCRETE CURB (32 16 14)	674	LF		
32.6	TOP SOILING, FERTILIZING, SEEDING, AND MULCHING (32 90 13)	1	LS		
DIVISION 33 - UTILITIES					
33.0	WATER MAIN WORK (33 10 01 AND 33 14 23)	1	LS		
33.1	SEWER WORK (33 30 01)	1	LS		
33.2	STORM DRAINAGE (33 40 01)	1	LS		
33.3	GAS MAIN WORK (33 50 01)	1	LS		
33.4	UNDERGROUND ELECTRICAL DUCT AND MANHOLE SYSTEM IN NJDOT RIGHT-OF-WAY (33 71 19)	1	LS		
33.5	RELOCATE ITS CONDUITS AND FIBER OPTIC CABLE (33 80 00)	1	LS		
DIVISION 34 - TRANSPORTATION					
34.0	INTERIM TRAFFIC SIGNAL (34 41 13)	1	LS		
34.1	BEAM GUIDE RAIL (34 71 13.26)	694	LF		
34.2	TRAFFIC STRIPES AND MARKINGS (34 71 19.13)	1	LS		
34.3	DIVISION 34 - TRANSPORTATION (ALL REMAINING WORK)	1	LS		

<p>ESTIMATED TOTAL CONTRACT PRICE (LUMP SUM)</p> <p>In Writing</p> <p>.....</p> <p>.....Dollars and</p> <p>.....Cents</p> <p>The Lump Sum amount must be given both in figures and in writing and, in case of discrepancy, the writing shall control.</p>	<p>In Figures</p>
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Abbreviations are as follows:

LF = Linear Foot, LS = Lump Sum, CY = Cubic Yard, ALW = Allowance, N/A = Not Applicable
 SY = Square Yard, EA = Each, TON = 2,000 Pounds, SF = Square Foot

HUDSON TUNNEL PROJECT - CONTRACT C02 (GDC23-002)

Tonnelle Avenue Overhead Bridge

ADDENDA
Rev. C
5.16.23

LIST OF DRAWINGS

DWG. NO.	DWG. TITLE	
INDEX		
1	C02-IN-2001	INDEX OF DRAWINGS
GENERAL		
2	C02-GP-2001	GENERAL NOTES
3	C02-SU-2001	SURVEY CONTROL TRAVERSE AND ALIGNMENT BASELINES
4	C02-SU-2102	SURVEY CONTROL BASELINE TIE SHEET
5	C02-RW-2101	RIGHT-OF-WAY PLAN
CIVIL		
6	C02-CT-2001	GENERAL NOTES
7	C02-CT-2002	LEGEND
8	C02-CT-2011	TYPICAL ROADWAY SECTIONS - SHEET 1
9	C02-CT-2012	TYPICAL ROADWAY SECTIONS - SHEET 2
10	C02-CT-2013	TYPICAL TRACK SECTIONS
11	C02-CT-2050	GENERAL PLAN
12	C02-CT-2091	EXISTING CONDITIONS PLAN - SHEET 1
13	C02-CT-2092	EXISTING CONDITIONS PLAN - SHEET 2
14	C02-CT-2093	EXISTING ENGINEERING CONTROLS PLAN
15	C02-CT-2101	DEMOLITION PLAN - SHEET 1
16	C02-CT-2102	DEMOLITION PLAN - SHEET 2
17	C02-CT-2121	CONSTRUCTION PLAN - SHEET 1
18	C02-CT-2122	CONSTRUCTION PLAN - SHEET 2
19	C02-CT-2123	EXCAVATION SUPPORT PLAN
20	C02-CT-2132	TONNELLE AVENUE PROFILE
21	C02-CT-2133	ACCESS ROAD PROFILE
22	C02-CT-2141	GRADING AND DRAINAGE PLAN - SHEET 1
23	C02-CT-2142	GRADING AND DRAINAGE PLAN - SHEET 2
24	C02-CT-2143	DRAINAGE PROFILES
25	C02-CT-2150	SIGNING AND STRIPING PLAN
CONSTRUCTION DETAILS		
26	C02-CT-2501	CONSTRUCTION DETAILS - SHEET 1
27	C02-CT-2502	CONSTRUCTION DETAILS - SHEET 2
28	C02-CT-2503	CONSTRUCTION DETAILS - SHEET 3
29	C02-CT-2504	CONSTRUCTION DETAILS - SHEET 4
30	C02-CT-2505	CONSTRUCTION DETAILS - SHEET 5
31	C02-CT-2506	CONSTRUCTION DETAILS - SHEET 6
32	C02-CT-2507	CONSTRUCTION DETAILS - SHEET 7
33	C02-CT-2508	CONSTRUCTION DETAILS - SHEET 8
34	C02-CT-2509	CONSTRUCTION DETAILS - SHEET 9
35	C02-CT-2510	CONSTRUCTION DETAILS - SHEET 10
36	C02-CT-2511	CONSTRUCTION DETAILS - SHEET 11
37	C02-CT-2512	CONSTRUCTION DETAILS - SHEET 12

38	C02-CT-2513	CONSTRUCTION DETAILS - SHEET 13	
39	C02-CT-2514	DRAINAGE DETAILS - SHEET 1	
40	C02-CT-2515	DRAINAGE DETAILS - SHEET 2	
41	C02-CT-2516	WATER MAIN DETAILS	
42	C02-CT-2601	SUGGESTED CONSTRUCTION SEQUENCE	
		TRACK	
43	C02-TK-2110	TRACK ALIGNMENT PLAN - AT TONNELLE AVE BRIDGE	
44	C02-TK-2305	TRACK VERTICAL PROFILE - T1 AND T4 AT TONNELLE AVE BRIDGE	
		UTILITIES	
45	C02-UT-2101	COMPOSITE PLAN OF UTILITY RELOCATIONS	C
46	C02-UT-2111	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 1 TEMPORARY	A
47	C02-UT-2112	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 3 TEMPORARY	A
48	C02-UT-2113	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 3 PERMANENT	
49	C02-UT-2114	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 4 PERMANENT	
50	C02-UT-2116	UTILITY RELOCATION PLAN UG ELECTRIC STAGE 1 PERMANENT	A
51	C02-UT-2117	UTILITY RELOCATION PLAN UG ELECTRIC STAGE 3 PERMANENT	A
52	C02-UT-2120	UTILITY RELOCATION PLAN OH TELEPHONE STAGE 3 TEMPORARY	
53	C02-UT-2121	UTILITY RELOCATION PLAN OH TELEPHONE STAGE 3 PERMANENT	
54	C02-UT-2123	UTILITY RELOCATION PLAN CABLE-TV AND ITS STAGE 3 TEMPORARY	
55	C02-UT-2124	UTILITY RELOCATION PLAN CABLE-TV AND ITS STAGE 3 PERMANENT	
56	C02-UT-2126	UTILITY RELOCATION PLAN WATER STAGE 1 PERMANENT	
57	C02-UT-2127	UTILITY RELOCATION PLAN WATER STAGE 3 PERMANENT	
58	C02-UT-2128	UTILITY RELOCATION PLAN GAS STAGE 3 PERMANENT	
59	C02-UT-2129	UTILITY CONSTRUCTION DETAILS - GAS AND WATER	
60	C02-UT-2130	UTILITY RELOCATION PLAN SEWER	
		SOIL EROSION AND SEDIMENT CONTROL	
61	C02-CT-2160	SOIL EROSION AND SEDIMENT CONTROL NOTES	
62	C02-CT-2161	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1	
63	C02-CT-2162	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 2	
64	C02-CT-2163	SOIL EROSION AND SEDIMENT CONTROL DETAILS	
65	C02-CX-2500	METHOD OF CROSS SECTIONS	
66	C02-CX-2501	CROSS SECTIONS - SHEET 1	
67	C02-CX-2502	CROSS SECTIONS - SHEET 2	
68	C02-CX-2503	CROSS SECTIONS - SHEET 3	
69	C02-CX-2504	CROSS SECTIONS - SHEET 4	
70	C02-CX-2505	CROSS SECTIONS - SHEET 5	
71	C02-CX-2507	TRACK CROSS SECTIONS - SHEET 1	
72	C02-CX-2508	TRACK CROSS SECTIONS - SHEET 2	
73	C02-CX-2509	TRACK CROSS SECTIONS - SHEET 3	
74	C02-CX-2510	TRACK CROSS SECTIONS - SHEET 4	
		SIGNALIZED INTERSECTION	
75	C02-CT-2701	EXISTING CONDITIONS PLAN	
76	C02-CT-2711	DEMOLITION PLAN	
77	C02-CT-2721	CONSTRUCTION PLAN	
78	C02-UT-2731	UTILITY PLAN	
79	C02-CT-2751	SIGNING AND STRIPING PLAN	
80		NOT USED	
81	C02-TS-2701	TEMPORARY TRAFFIC SIGNAL PLAN	A

82	C02-TS-2702	TEMPORARY TRAFFIC SIGNAL ELECTRICAL PLAN	B
83		NOT USED	
84	C02-TS-2704	TEMPORARY TRAFFIC SIGNAL ITS PLAN	
		TRAFFIC	
85	C02-TF-2001	TRAFFIC CONTROL NOTES	A
86	C02-TF-2103	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 1 - PHASE A	
87	C02-TF-2104	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 1 - PHASE B	
88	C02-TF-2105	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 2	
89	C02-TF-2106	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 3	
90	C02-TF-2107	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 4	
91	C02-TF-2500	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LEFT LANE CLOSURES	
92	C02-TF-2501	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LEFT LANE CLOSURE AND LANE SHIFT	
93	C02-TF-2502	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - RIGHT LANE CLOSURE	
94	C02-TF-2503	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LANES SHIFT	
95	C02-TF-2504	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGE 1	
96	C02-TF-2505	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGES 2 & 4	
97	C02-TF-2506	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGE 3	
98	C02-TF-2507	TRAFFIC CONTROL DETAILS - SHEET 1	
99	C02-TF-2508	TRAFFIC CONTROL DETAILS - SHEET 2	
100	C02-TF-2509	TRAFFIC CONTROL DETAILS - SHEET 3	
101	C02-TF-2510	TRAFFIC CONTROL DETAILS - SHEET 4	
		STRUCTURAL	
102	C02-ST-2101	GENERAL PLAN AND ELEVATION	
103	C02-ST-2102	BRIDGE TYPICAL SECTIONS & PROFILE	
104	C02-ST-2103	STAGING ON BRIDGE SECTIONS - SHEET 1	
105	C02-ST-2104	STAGING ON BRIDGE SECTIONS - SHEET 2	
106	C02-ST-2105	STAGING ON BRIDGE SECTIONS - SHEET 3	
107	C02-ST-2106	STAGING ON BRIDGE SECTIONS - SHEET 4	
108	C02-ST-2144	DECK PLAN	
109	C02-ST-2501	TYPICAL DECK SECTION	
110	C02-ST-2502	DECK SECTIONS AND DETAILS - SHEET 1	
111	C02-ST-2503	DECK SECTIONS AND DETAILS - SHEET 2	
112	C02-ST-2504	RELIEF SLAB DETAILS	
113	C02-ST-2505	PARAPETS ON RELIEF SLABS - SHEET 1	
114	C02-ST-2506	PARAPETS ON RELIEF SLABS - SHEET 2	
115	C02-ST-2507	FRAMING PLAN	
116	C02-ST-2508	PRESTRESSED CONCRETE BOX BEAM - SHEET 1	
117	C02-ST-2509	PRESTRESSED CONCRETE BOX BEAM - SHEET 2	
118	C02-ST-2510	PRESTRESSED CONCRETE BOX BEAM - SHEET 3	
119	C02-ST-2511	INTERMEDIATE DIAPHRAGMS AND UTILITY ATTACHMENT DETAILS	
120	C02-ST-2512	DIAPHRAGM DETAILS SHEET 1	
121	C02-ST-2513	UTILITY SUPPORT STRUCTURE - SHEET 1	
122	C02-ST-2514	UTILITY SUPPORT STRUCTURE - SHEET 2	
123	C02-ST-2520	SOUTH ABUTMENT FOOTING PLAN	
124	C02-ST-2521	SOUTH ABUTMENT PLAN	
125	C02-ST-2522	SOUTH ABUTMENT ELEVATION	
126	C02-ST-2523	NORTH ABUTMENT FOOTING PLAN	
127	C02-ST-2524	NORTH ABUTMENT PLAN	
128	C02-ST-2525	NORTH ABUTMENT ELEVATION	
129	C02-ST-2526	ABUTMENT SECTIONS & DETAILS - SHEET 1	
130	C02-ST-2527	ABUTMENT SECTIONS & DETAILS - SHEET 2	
131	C02-ST-2528	ABUTMENT SECTIONS & DETAILS - SHEET 3	


132	C02-ST-2529	ABUTMENT SECTIONS & DETAILS - SHEET 4	
133	C02-ST-2530	WINGWALL ELEVATIONS - SHEET 1	
134	C02-ST-2531	WINGWALL ELEVATIONS - SHEET 2	
135	C02-ST-2532	WINGWALL SECTIONS	
136	C02-ST-2533	PIER FOOTING PLAN	
137	C02-ST-2534	PIER PLAN & ELEVATION	
138	C02-ST-2535	PIER SECTIONS & DETAILS - SHEET 1	
139	C02-ST-2536	PIER SECTIONS & DETAILS - SHEET 2	
140	C02-ST-2601	BAR SCHEDULE - SHEET 1	
141	C02-ST-2602	BAR SCHEDULE - SHEET 2	
142	C02-ST-2605	BAR SCHEDULE - SHEET 3	
143	C02-ST-2606	BAR SCHEDULE - SHEET 4	
144	C02-ST-2607	BAR SCHEDULE - SHEET 5	
145	C02-ST-2609	STRUCTURAL CATCH BASIN RETAINING WALL PLAN AND DETAILS	
146	C02-ST-2701	SOUTH ABUTMENT DEMOLITION PLAN	
147	C02-ST-2702	NORTH ABUTMENT DEMOLITION PLAN	
148	C02-ST-2703	PIER DEMOLITION	
149	C02-ST-2704	WINGWALL DEMOLITION - SHEET 1	
150	C02-ST-2705	WINGWALL DEMOLITION - SHEET 2	
		GEOTECHNICAL	
150A	C02-GT-2001	INSTRUMENTATION PLAN, LEGEND AND NOTES	
150B	C02-GT-2501	INSTRUMENTATION DETAILS	
		ITS DETAILS	
151	C02-EU-2501	ITS DETAILS - SHEET 1	
152	C02-EU-2502	ITS DETAILS - SHEET 2	
153	C02-EU-2503	ITS DETAILS - SHEET 3	
154	C02-EU-2504	ITS DETAILS - SHEET 4	
		CORROSION CONTROL	
155	C02-CC-2100	CATHODIC PROTECTION CORROSION CONTROL - UTILITY RELOCATION PERMANENT 12" DIP MAIN PLAN	
156	C02-CC-2500	CATHODIC PROTECTION CORROSION CONTROL - ANODE GROUNDED DETAIL	
157	C02-CC-2501	CATHODIC PROTECTION CORROSION CONTROL - FIRE HYDRANT DETAIL	
158	C02-CC-2502	CATHODIC PROTECTION CORROSION CONTROL - DETAILS	

HUDSON TUNNEL PROJECT - PACKAGE 4 (CONTRACT GDC23-002)

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SHEET No.	DWG No.	DESCRIPTION	SHEET No.	DWG No.	DESCRIPTION
1	C02-IN-2001	INDEX INDEX OF DRAWINGS	78	C02-UT-2731	UTILITY PLAN
2	C02-GP-2001	GENERAL NOTES	79	C02-CT-2751	SIGNING AND STRIPING PLAN
3	C02-SU-2001	SURVEY CONTROL TRAVERSE AND ALIGNMENT BASELINES	80		NOT USED
4	C02-SU-2102	SURVEY CONTROL BASELINE TIE SHEET	81	C02-TS-2701	TEMPORARY TRAFFIC SIGNAL PLAN
5	C02-RW-2101	RIGHT-OF-WAY PLAN	82	C02-TS-2702	TEMPORARY TRAFFIC SIGNAL ELECTRICAL PLAN
6	C02-CT-2001	CIVIL GENERAL NOTES	83		NOT USED
7	C02-CT-2002	LEGEND	84	C02-TS-2704	TEMPORARY TRAFFIC SIGNAL ITS PLAN
8	C02-CT-2011	TYPICAL ROADWAY SECTIONS - SHEET 1	85	C02-TF-2001	TRAFFIC CONTROL NOTES
9	C02-CT-2012	TYPICAL ROADWAY SECTIONS - SHEET 2	86	C02-TF-2103	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 1- PHASE A
10	C02-CT-2013	TYPICAL TRACK SECTIONS	87	C02-TF-2104	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 1- PHASE B
11	C02-CT-2050	GENERAL PLAN	88	C02-TF-2105	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 2
12	C02-CT-2091	EXISTING CONDITIONS PLAN - SHEET 1	89	C02-TF-2106	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 3
13	C02-CT-2092	EXISTING CONDITIONS PLAN - SHEET 2	90	C02-TF-2107	MAINTENANCE AND PROTECTION OF TRAFFIC - STAGE 4
14	C02-CT-2093	EXISTING ENGINEERING CONTROLS PLAN	91	C02-TF-2500	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LEFT LANE CLOSURES
15	C02-CT-2101	DEMOLITION PLAN - SHEET 1	92	C02-TF-2501	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LEFT LANE CLOSURE AND LANE SHIFT
16	C02-CT-2102	DEMOLITION PLAN - SHEET 2	93	C02-TF-2502	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - RIGHT LANE CLOSURE
17	C02-CT-2121	CONSTRUCTION PLAN - SHEET 1	94	C02-TF-2503	TRAFFIC CONTROL - DEVICE PLACEMENT DETAILS - LANES SHIFT
18	C02-CT-2122	CONSTRUCTION PLAN - SHEET 2	95	C02-TF-2504	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGE 1
19	C02-CT-2123	EXCAVATION SUPPORT PLAN	96	C02-TF-2505	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGES 2 & 4
20	C02-CT-2132	TONNELLE AVENUE PROFILE	97	C02-TF-2506	TRAFFIC CONTROL DEVICE PLACEMENT DETAILS - STAGE 3
21	C02-CT-2133	ACCESS ROAD PROFILE	98	C02-TF-2507	TRAFFIC CONTROL DETAILS - SHEET 1
22	C02-CT-2141	GRADING AND DRAINAGE PLAN - SHEET 1	99	C02-TF-2508	TRAFFIC CONTROL DETAILS - SHEET 2
23	C02-CT-2142	GRADING AND DRAINAGE PLAN - SHEET 2	100	C02-TF-2509	TRAFFIC CONTROL DETAILS - SHEET 3
24	C02-CT-2143	DRAINAGE PROFILES	101	C02-TF-2510	TRAFFIC CONTROL DETAILS - SHEET 4
25	C02-CT-2150	SIGNING AND STRIPING PLAN	102	C02-ST-2101	STRUCTURAL GENERAL PLAN AND ELEVATION
26	C02-CT-2501	CONSTRUCTION DETAILS - SHEET 1	103	C02-ST-2102	BRIDGE TYPICAL SECTIONS & PROFILE
27	C02-CT-2502	CONSTRUCTION DETAILS - SHEET 2	104	C02-ST-2103	STAGING ON BRIDGE SECTIONS - SHEET 1
28	C02-CT-2503	CONSTRUCTION DETAILS - SHEET 3	105	C02-ST-2104	STAGING ON BRIDGE SECTIONS - SHEET 2
29	C02-CT-2504	CONSTRUCTION DETAILS - SHEET 4	106	C02-ST-2105	STAGING ON BRIDGE SECTIONS - SHEET 3
30	C02-CT-2505	CONSTRUCTION DETAILS - SHEET 5	107	C02-ST-2106	STAGING ON BRIDGE SECTIONS - SHEET 4
31	C02-CT-2506	CONSTRUCTION DETAILS - SHEET 6	108	C02-ST-2144	DECK PLAN
32	C02-CT-2507	CONSTRUCTION DETAILS - SHEET 7	109	C02-ST-2501	TYPICAL DECK SECTION
33	C02-CT-2508	CONSTRUCTION DETAILS - SHEET 8	110	C02-ST-2502	DECK SECTIONS AND DETAILS - SHEET 1
34	C02-CT-2509	CONSTRUCTION DETAILS - SHEET 9	111	C02-ST-2503	DECK SECTIONS AND DETAILS - SHEET 2
35	C02-CT-2510	CONSTRUCTION DETAILS - SHEET 10	112	C02-ST-2504	RELIEF SLAB DETAILS
36	C02-CT-2511	CONSTRUCTION DETAILS - SHEET 11	113	C02-ST-2505	PARAPETS ON RELIEF SLABS - SHEET 1
37	C02-CT-2512	CONSTRUCTION DETAILS - SHEET 12	114	C02-ST-2506	PARAPETS ON RELIEF SLABS - SHEET 2
38	C02-CT-2513	CONSTRUCTION DETAILS - SHEET 13	115	C02-ST-2507	FRAMING PLAN
39	C02-CT-2514	DRAINAGE DETAILS - SHEET 1	116	C02-ST-2508	PRESTRESSED CONCRETE BOX BEAM - SHEET 1
40	C02-CT-2515	DRAINAGE DETAILS - SHEET 2	117	C02-ST-2509	PRESTRESSED CONCRETE BOX BEAM - SHEET 2
41	C02-CT-2516	WATER MAIN DETAILS	118	C02-ST-2510	PRESTRESSED CONCRETE BOX BEAM - SHEET 3
42	C02-CT-2601	SUGGESTED CONSTRUCTION SEQUENCE	119	C02-ST-2511	INTERMEDIATE DIAPHRAGMS AND UTILITY ATTACHMENT DETAILS
43	C02-TK-2110	TRACK ALIGNMENT PLAN - AT TONNELLE AVE BRIDGE	120	C02-ST-2512	DIAPHRAGM DETAILS SHEET 1
44	C02-TK-2305	TRACK VERTICAL PROFILE - TIAND T4 AT TONNELLE AVE BRIDGE	121	C02-ST-2513	UTILITY SUPPORT STRUCTURE - SHEET 1
45	C02-UT-2101	UTILITIES COMPOSITE PLAN OF UTILITY RELOCATIONS	122	C02-ST-2514	UTILITY SUPPORT STRUCTURE - SHEET 2
46	C02-UT-2111	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 1 TEMPORARY	123	C02-ST-2520	SOUTH ABUTMENT FOOTING PLAN
47	C02-UT-2112	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 3 TEMPORARY	124	C02-ST-2521	SOUTH ABUTMENT PLAN
48	C02-UT-2113	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 3 PERMANENT	125	C02-ST-2522	SOUTH ABUTMENT ELEVATION
49	C02-UT-2114	UTILITY RELOCATION PLAN OH ELECTRIC STAGE 4 PERMANENT	126	C02-ST-2523	NORTH ABUTMENT FOOTING PLAN
50	C02-UT-2116	UTILITY RELOCATION PLAN UG ELECTRIC STAGE 1 PERMANENT	127	C02-ST-2524	NORTH ABUTMENT PLAN
51	C02-UT-2117	UTILITY RELOCATION PLAN UG ELECTRIC STAGE 3 PERMANENT	128	C02-ST-2525	NORTH ABUTMENT ELEVATION
52	C02-UT-2120	UTILITY RELOCATION PLAN OH TELEPHONE STAGE 3 TEMPORARY	129	C02-ST-2526	ABUTMENT SECTIONS & DETAILS - SHEET 1
53	C02-UT-2121	UTILITY RELOCATION PLAN OH TELEPHONE STAGE 3 PERMANENT	130	C02-ST-2527	ABUTMENT SECTIONS & DETAILS - SHEET 2
54	C02-UT-2123	UTILITY RELOCATION PLAN CABLE-TV AND ITS STAGE 3 TEMPORARY	131	C02-ST-2528	ABUTMENT SECTIONS & DETAILS - SHEET 3
55	C02-UT-2124	UTILITY RELOCATION PLAN CABLE-TV AND ITS STAGE 3 PERMANENT	132	C02-ST-2529	ABUTMENT SECTIONS & DETAILS - SHEET 4
56	C02-UT-2126	UTILITY RELOCATION PLAN WATER STAGE 1 PERMANENT	133	C02-ST-2530	WINGWALL ELEVATIONS - SHEET 1
57	C02-UT-2127	UTILITY RELOCATION PLAN WATER STAGE 3 PERMANENT	134	C02-ST-2531	WINGWALL ELEVATIONS - SHEET 2
58	C02-UT-2128	UTILITY RELOCATION PLAN GAS STAGE 3 PERMANENT	135	C02-ST-2532	WINGWALL SECTIONS
59	C02-UT-2129	UTILITY CONSTRUCTION DETAILS - GAS AND WATER	136	C02-ST-2533	PIER FOOTING PLAN
60	C02-UT-2130	UTILITY RELOCATION PLAN SEWER	137	C02-ST-2534	PIER PLAN & ELEVATION
61	C02-CT-2160	SOIL EROSION AND SEDIMENT CONTROL	138	C02-ST-2535	PIER SECTIONS & DETAILS - SHEET 1
62	C02-CT-2161	SOIL EROSION AND SEDIMENT CONTROL NOTES	139	C02-ST-2536	PIER SECTIONS & DETAILS - SHEET 2
63	C02-CT-2162	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 1	140	C02-ST-2601	BAR SCHEDULE - SHEET 1
64	C02-CT-2163	SOIL EROSION AND SEDIMENT CONTROL PLAN - SHEET 2	141	C02-ST-2602	BAR SCHEDULE - SHEET 2
65	C02-CX-2500	METHOD OF CROSS SECTIONS	142	C02-ST-2605	BAR SCHEDULE - SHEET 3
66	C02-CX-2501	CROSS SECTIONS - SHEET 1	143	C02-ST-2606	BAR SCHEDULE - SHEET 4
67	C02-CX-2502	CROSS SECTIONS - SHEET 2	144	C02-ST-2607	BAR SCHEDULE - SHEET 5
68	C02-CX-2503	CROSS SECTIONS - SHEET 3	145	C02-ST-2609	STRUCTURAL CATCH BASIN RETAINING WALL PLAN AND DETAILS
69	C02-CX-2504	CROSS SECTIONS - SHEET 4	146	C02-ST-2701	SOUTH ABUTMENT DEMOLITION PLAN
70	C02-CX-2505	CROSS SECTIONS - SHEET 5	147	C02-ST-2702	NORTH ABUTMENT DEMOLITION PLAN
71	C02-CX-2507	TRACK CROSS SECTIONS - SHEET 1	148	C02-ST-2703	PIER DEMOLITION
72	C02-CX-2508	TRACK CROSS SECTIONS - SHEET 2	149	C02-ST-2704	WINGWALL DEMOLITION - SHEET 1
73	C02-CX-2509	TRACK CROSS SECTIONS - SHEET 3	150	C02-ST-2705	WINGWALL DEMOLITION - SHEET 2
74	C02-CX-2510	TRACK CROSS SECTIONS - SHEET 4	150A	C02-GT-2001	GEOTECHNICAL INSTRUMENTATION PLAN, LEGEND AND NOTES
75	C02-CT-2701	SIGNALIZED INTERSECTION EXISTING CONDITIONS PLAN	150B	C02-GT-2501	INSTRUMENTATION DETAILS
76	C02-CT-2711	DEMOLITION PLAN	151	C02-EU-2501	ITS DETAILS - SHEET 1
77	C02-CT-2721	CONSTRUCTION PLAN	152	C02-EU-2502	ITS DETAILS - SHEET 2
			153	C02-EU-2503	ITS DETAILS - SHEET 3
			154	C02-EU-2504	ITS DETAILS - SHEET 4
			155	C02-CC-2100	CORROSION CONTROL CATHODIC PROTECTION CORROSION CONTROL - UTILITY RELOCATION PERMANENT 12" DIP MAIN PLAN
			156	C02-CC-2500	CATHODIC PROTECTION CORROSION CONTROL - ANODE GROUNDED DETAIL
			157	C02-CC-2501	CATHODIC PROTECTION CORROSION CONTROL - FIRE HYDRANT DETAIL
			158	C02-CC-2502	CATHODIC PROTECTION CORROSION CONTROL - DETAILS

No.	Revisions	Date	By
C	DRAWINGS ADDED / REVISED PER DISCIPLINE	5/03/23	MJC
B	DRAWINGS ADDED / REVISED PER DISCIPLINE	3/24/23	MJC
A	DRAWINGS ADDED / REVISED PER DISCIPLINE	2/28/23	MJC


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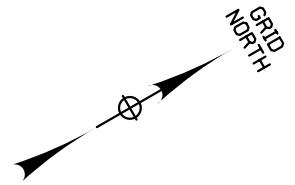
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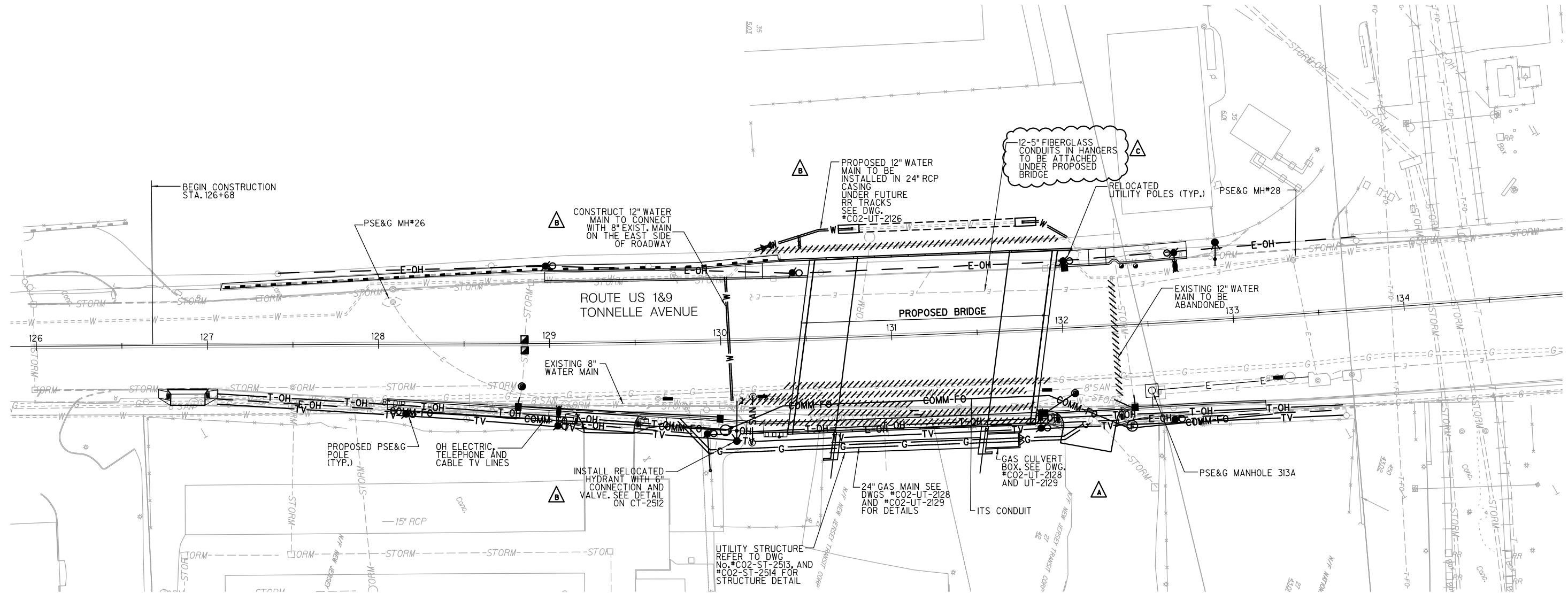
GATEWAY PROGRAM

HUDSON TUNNEL PROJECT				Contract No. GDC23-002
INDEX OF DRAWINGS				Sheet No. 1 of 158
C02-IN-2001				Dwg. No.
Designed DY	Drawn MJC	Checked MR	Date 02/03/2023	



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NOTES:

1. THIS PLAN SHOWS FINAL UTILITY LOCATIONS IN GENERAL. SEE "UTILITY RELOCATION PLANS (DWG. *CO2-UT-XXXX)* FOR EACH UTILITY OWNER BY STAGES AND "MAINTENANCE AND PROTECTION OF TRAFFIC PLANS (DWG. *CO2-TF-XXXX)* FOR TEMPORARY UTILITY RELOCATION SCHEMES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DESIGN, INSTALL, CONNECT, AND MAINTAIN TEMPORARY STREET LIGHTINGS AT THE SAME STATION LOCATIONS OF THE EXISTING LIGHTINGS BEING DISTURBED.
3. ALL WORK ON CONSTRUCTING OF UTILITY CARRIERS (CONDUCTORS, CABLES, PIPES, FITTINGS, TIE-INS, TESTINGS, ETC.) SHALL BE DONE BY UTILITY OWNER APPROVED CONTRACTORS, ESPECIALLY PSE&G GAS AND ELECTRIC, AND VEOLIA WATER.



No.	Revisions	Date	By
C	CHANGED PVC TO FIBERGLASS	05/03/23	DC
B	REVISED WATER MAIN DESIGN PER VEOLIA COMMENTS OF 031423	03/24/23	DC
A	REVISED GAS MAIN AND WATER MAIN RELOCATION DESIGN	02/21/23	DC



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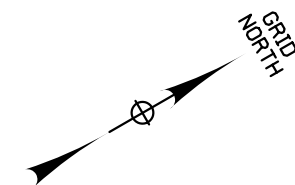
GATEWAY PROGRAM

HUDSON TUNNEL PROJECT

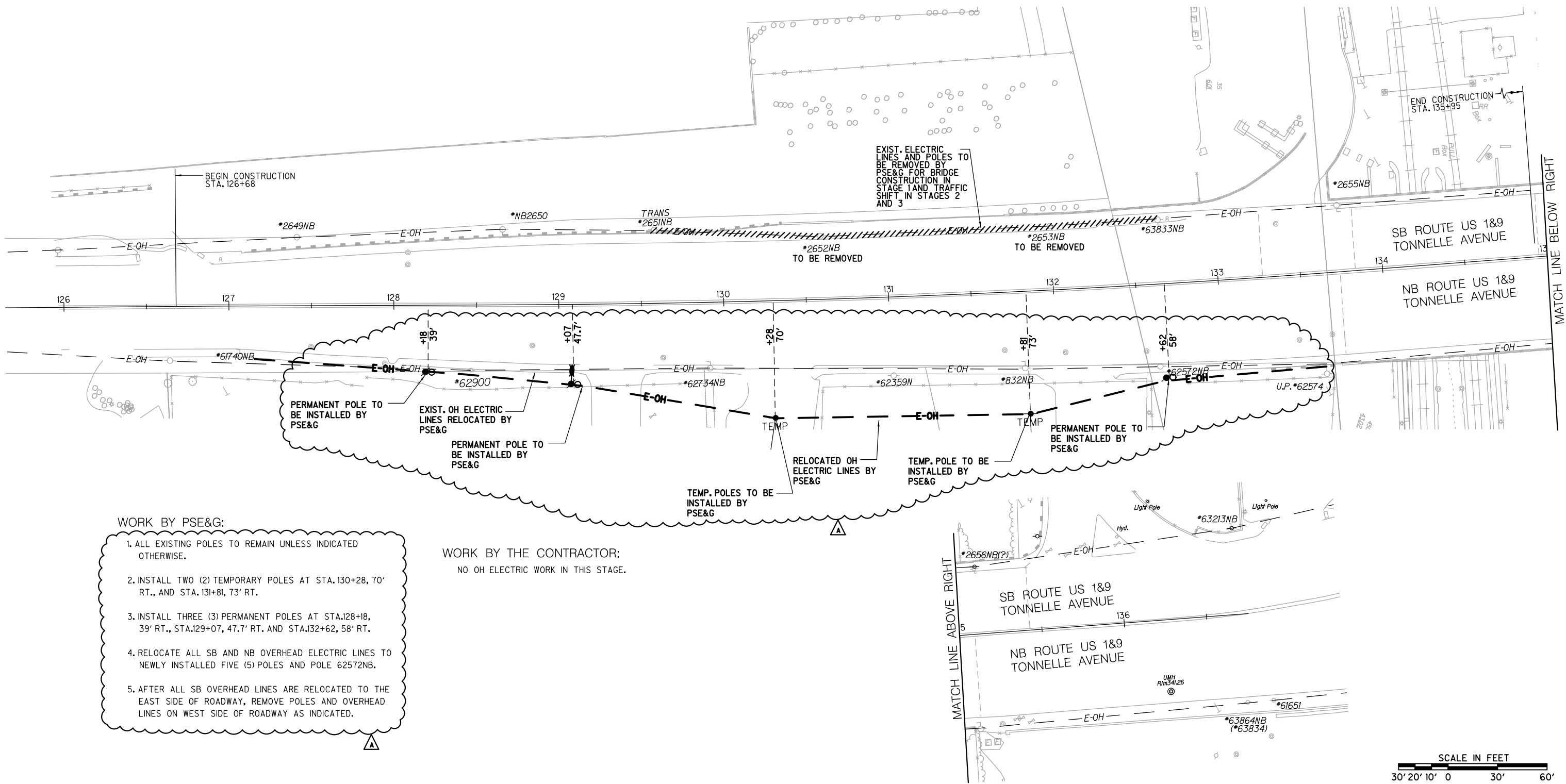
CIVIL
COMPOSITE PLAN OF UTILITY RELOCATIONS

Designed DC Drawn MJM Checked DY Date 02/03/2023

Contract No. GDC23-002
Sheet No. 45 of 158
Dwg. No. CO2-UT-2101



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- WORK BY PSE&G:**
1. ALL EXISTING POLES TO REMAIN UNLESS INDICATED OTHERWISE.
 2. INSTALL TWO (2) TEMPORARY POLES AT STA.130+28, 70' RT., AND STA.131+81, 73' RT.
 3. INSTALL THREE (3) PERMANENT POLES AT STA.128+18, 39' RT., STA.129+07, 47.7' RT. AND STA.132+62, 58' RT.
 4. RELOCATE ALL SB AND NB OVERHEAD ELECTRIC LINES TO NEWLY INSTALLED FIVE (5) POLES AND POLE 62572NB.
 5. AFTER ALL SB OVERHEAD LINES ARE RELOCATED TO THE EAST SIDE OF ROADWAY, REMOVE POLES AND OVERHEAD LINES ON WEST SIDE OF ROADWAY AS INDICATED.

WORK BY THE CONTRACTOR:
NO OH ELECTRIC WORK IN THIS STAGE.



No.	Revisions	Date	By

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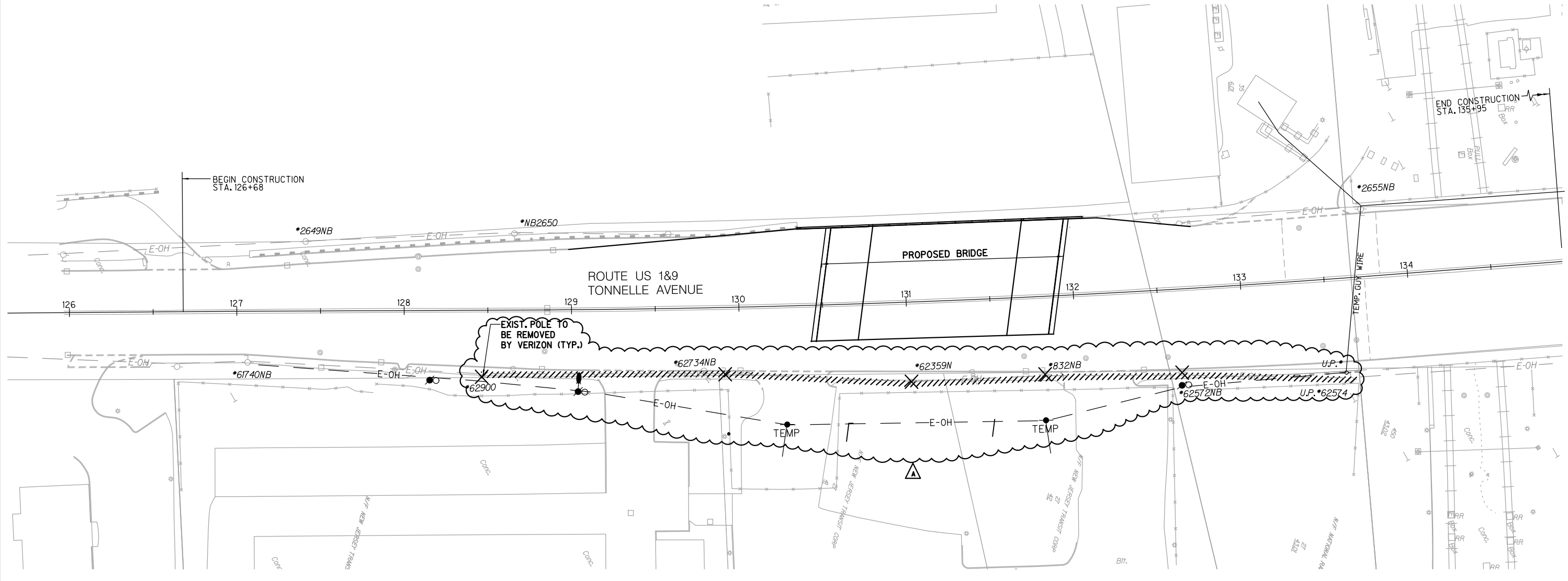
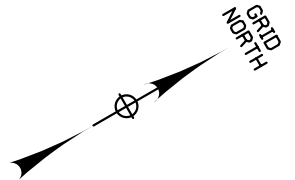


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 GATEWAY PROGRAM

HUDSON TUNNEL PROJECT
 CIVIL
 UTILITY RELOCATION PLAN OH ELECTRIC
 STAGE 1 TEMPORARY
 Designed DC Drawn MJM Checked DY Date 02/03/2023

Contract No. GDC23-002
 Sheet No. 46 of 158
 Dwg. No. C02-UT-2111

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WORK BY PSE&G:

- 1. REMOVE POLES AND OVERHEAD LINES ON EAST SIDE OF ROADWAY AS INDICATED.

WORK BY THE CONTRACTOR:

- NO OH ELECTRIC WORK IN THIS STAGE.

NOTES:

- 1. THIS WORK SHALL BE DONE IN BEGINNING OF STAGE 3 BEFORE EXISTING SIDEWALK IS REMOVED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY HIGHWAY LIGHTING AS DIRECTED BY CM. REFER TO NJDOT STANDARD SPECIFICATIONS SECTION-703.03.70.



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No.	Revisions	Date	By
A	SWAPPED WORK IN THIS STAGE AND REVISED NOTES	05/03/23	DC

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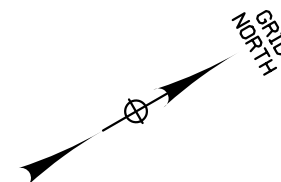
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HUDSON TUNNEL PROJECT

CIVIL
 UTILITY RELOCATION PLAN OH ELECTRIC
 STAGE 3 TEMPORARY

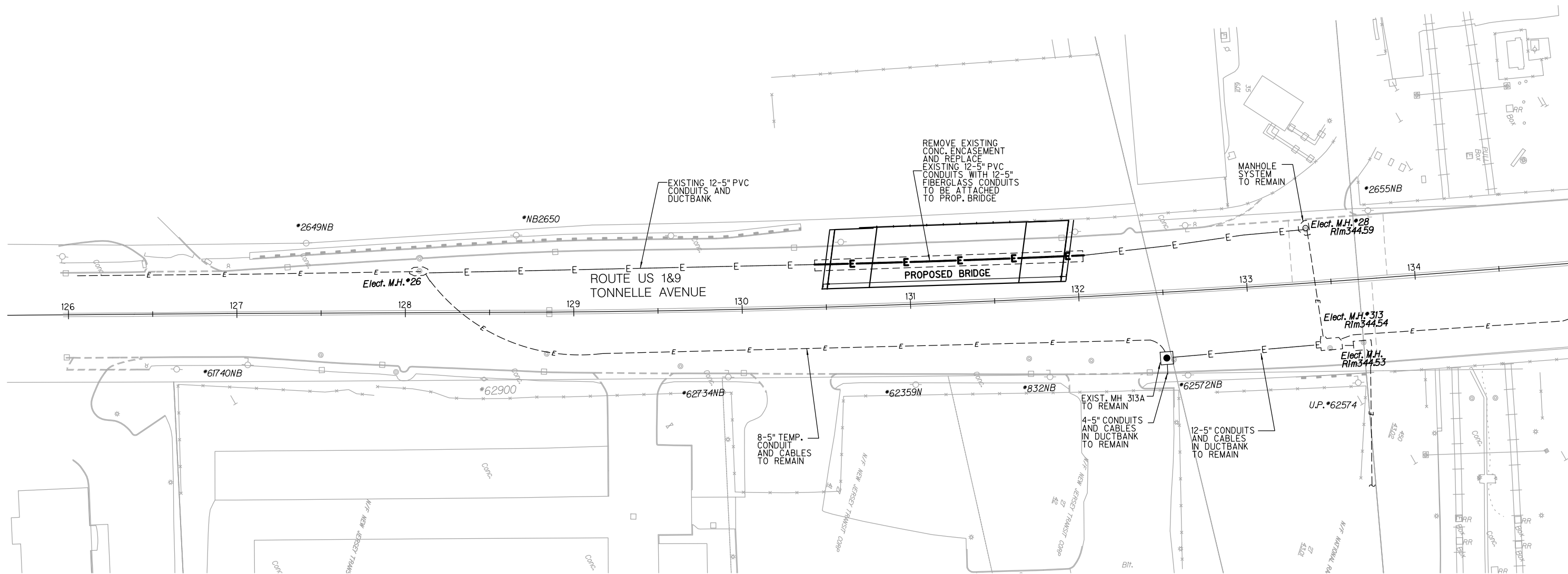
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Contract No.	GDC23-002
Sheet No.	47 OF 158
Dwg. No.	C02-UT-2112



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WORK BY PSE&G:

1. AFTER THE CONTRACTOR INSTALLED FIBERGLASS CONDUITS AND ATTACHED TO BRIDGE, INSTALL CABLES FROM MANHOLE *26 TO MANHOLE *28.
2. INSTALL DISTRIBUTION SERVICE TO NEW CABLES, DE-ENERGIZE AND REMOVE TEMPORARY CABLES BETWEEN MANHOLES *26 AND *313A.

WORK BY THE CONTRACTOR:

1. REMOVE EXISTING 12-5" PVC CONDUITS FOR THE CONSTRUCTION OF PROPOSED BRIDGE.
2. BLOW OUT EXISTING 12-5" PVC CONDUITS FROM MANHOLE *26 NORTHWARD TO THEIR ENDS AT THE PROPOSED BRIDGE.
3. BLOW OUT EXISTING 12-5" PVC CONDUITS FROM MANHOLE *28 SOUTHWARD TO THEIR ENDS AT THE PROPOSED BRIDGE.
4. FIELD VERIFY WITH PSE&G THE 12-5" PVC CONDUITS BETWEEN MANHOLES *26 AND *28 ARE CLEAR OF ANY OBSTRUCTIONS AND ARE IN USABLE CONDITIONS.
5. REPLACE SEGMENT OF 12-5" PVC CONDUITS IN BRIDGE SPAN BY FIBERGLASS CONDUITS AND ATTACH TO PROPOSED BRIDGE.
6. INSTALL PULL ROPE IN EACH OF THE 12-5" CONDUITS BETWEEN MANHOLE *26 AND MANHOLE *28.



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A	REVISED NOTES	05/03/23	DC

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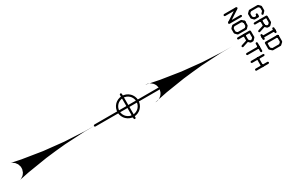
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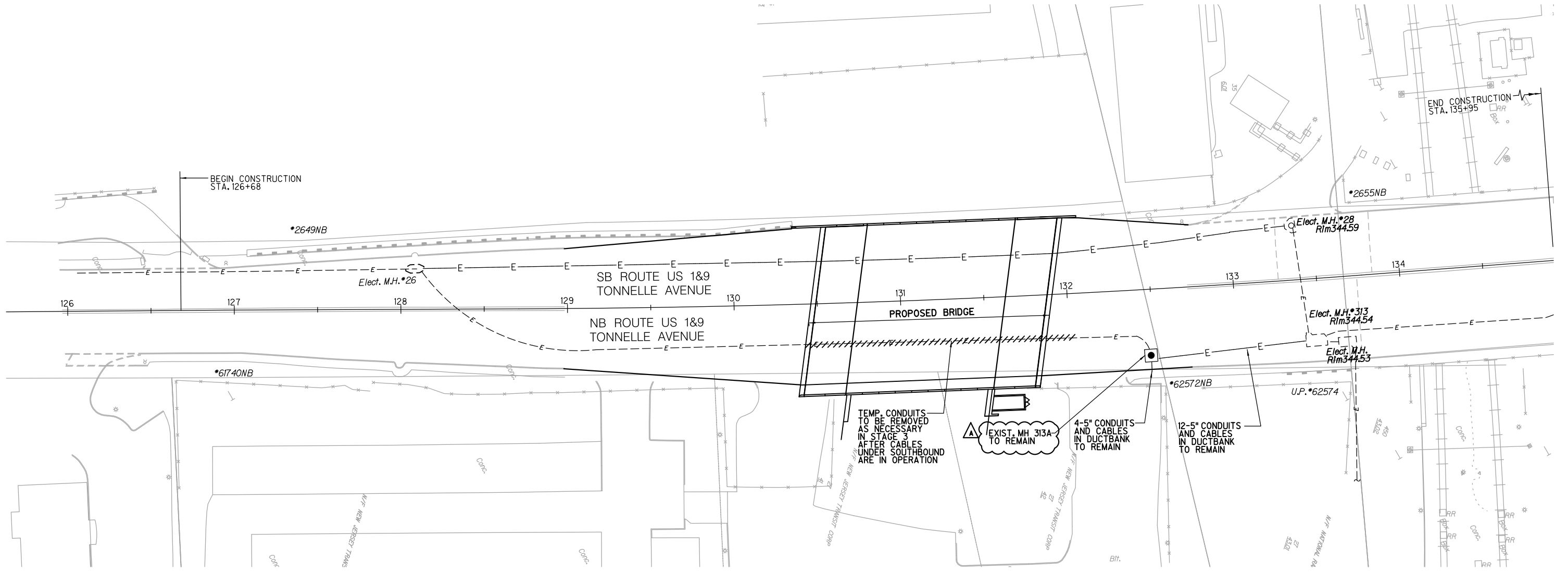
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GATEWAY PROGRAM

HUDSON TUNNEL PROJECT
 CIVIL
 UTILITY RELOCATION PLAN UG ELECTRIC
 STAGE 1 - PERMANENT
 Designed DC Drawn MJM Checked DY Date 02/03/2023

Contract No.	GDC23-002
Sheet No.	50 of 158
Dwg. No.	C02-UT-2116



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WORK BY THE CONTRACTOR (STAGE 3):

1. REMOVE ABANDONED TEMPORARY CABLES WHERE NECESSARY.
2. CUT AND REMOVE TEMPORARY 8-5" CONDUITS FOR THE CONSTRUCTION OF PROPOSED BRIDGE.
3. PLUG THE CUT ENDS OF THE TEMPORARY 8-5" CONDUITS TO BE ABANDONED IN PLACE NORTH AND SOUTH OF THE PROPOSED BRIDGE.
4. PLUG THE TEMPORARY 8-5" CONDUIT CONNECTIONS AT MANHOLE *26.
5. PLUG THE TEMPORARY 8-5" CONDUIT CONNECTIONS AT MANHOLE 313A.

WORK BY PSE&G (STAGE 4):

NO UNDERGROUND ELECTRIC WORK IN THIS STAGE.



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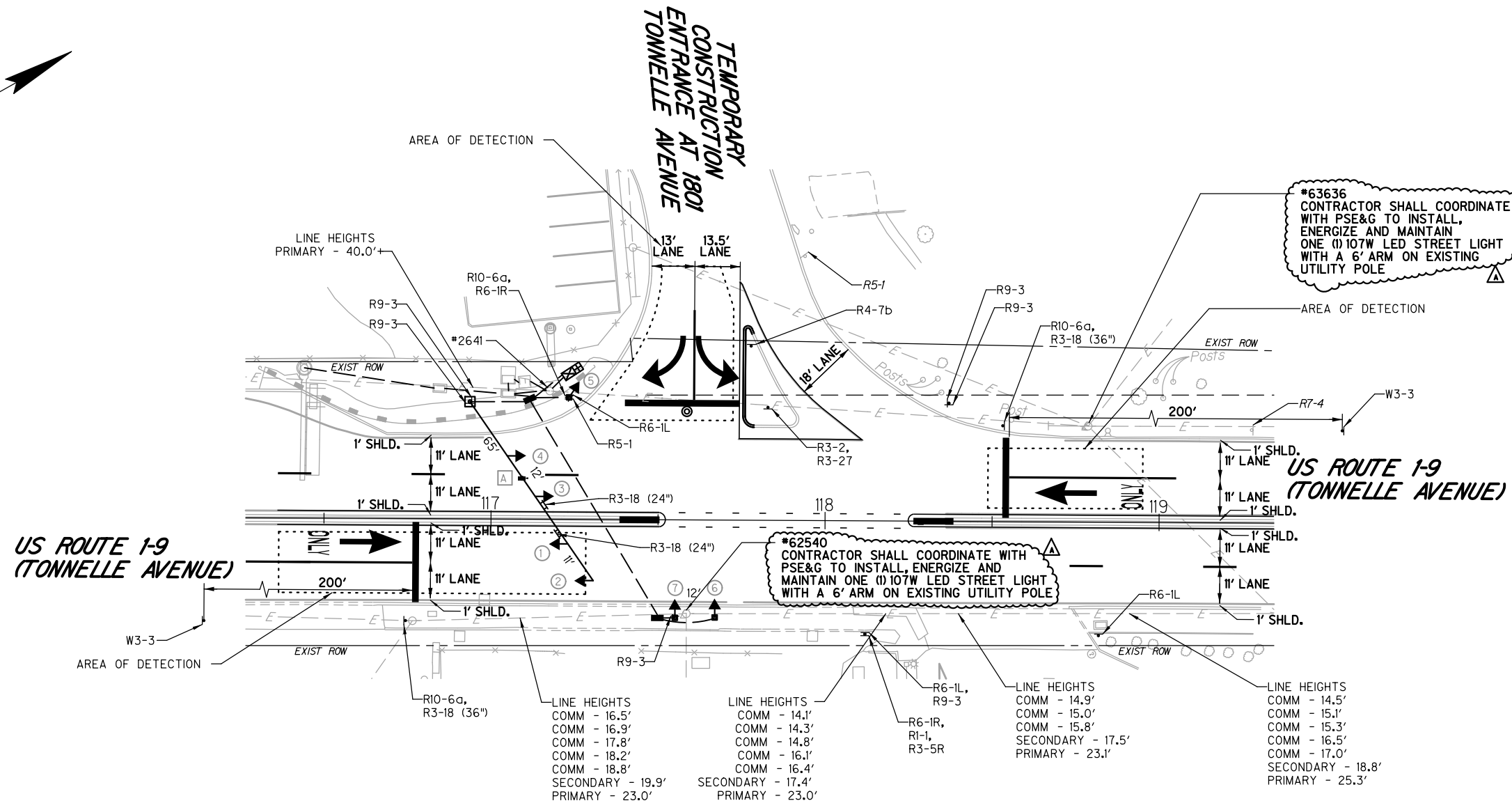
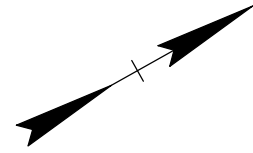
GATEWAY PROGRAM

HUDSON TUNNEL PROJECT

CIVIL
 UTILITY RELOCATION PLAN UG ELECTRIC
 STAGE 3 PERMANENT

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Contract No.	GDC23-002
Sheet No.	51 of 158
Dwg. No.	C02-UT-2117



#63636
CONTRACTOR SHALL COORDINATE WITH PSE&G TO INSTALL, ENERGIZE AND MAINTAIN ONE (1) 107W LED STREET LIGHT WITH A 6' ARM ON EXISTING UTILITY POLE

#62540
CONTRACTOR SHALL COORDINATE WITH PSE&G TO INSTALL, ENERGIZE AND MAINTAIN ONE (1) 107W LED STREET LIGHT WITH A 6' ARM ON EXISTING UTILITY POLE

EXISTING SIGN LEGEND

R5-1	DO NOT ENTER	30" x 30"
RT-4	NO STOPPING OR STANDING	12" x 18"

PROPOSED SIGN LEGEND

RI-1	STOP	30" x 30"
R3-2	NO LEFT TURN (SYMBOL)	24" x 24"
R3-5R	RIGHT TURN ONLY	30" x 36"
R3-18	NO U-TURN OR LEFT TURN (SYMBOL)	24" x 24", 36" x 36"
R3-27	NO THRU (SYMBOL)	24" x 24"
R4-7b	KEEP RIGHT (DIAGONAL ARROW)	24" x 30"
R5-1	DO NOT ENTER	30" x 30"
R6-1L	ONE WAY (LEFT)	36" x 12"
R6-1R	ONE WAY (RIGHT)	36" x 12"
R9-3	NO PEDESTRIAN CROSSING (SYMBOL)	18" x 18"
R10-6a	STOP HERE ON RED	24" x 30"
W3-3	SIGNAL AHEAD (ORANGE BACKGROUND)	36" x 36"

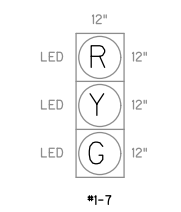
GENERAL NOTES:

- ALL PROPOSED SIGNS, SIGNALS, & PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- ALL TRAFFIC SIGNAL INDICATIONS SHALL BE L.E.D. AND SHALL BE SUPPLIED WITH LOUVERS.
- CONTRACTOR TO COORDINATE WITH NJDOT MOBILITY OPERATIONS TO TURN OFF OR DISCONNECT DMS DURING OPERATION OF TEMPORARY TRAFFIC SIGNAL.
- FIELD VISIT SHALL BE PERFORMED WITH ALL INTERESTED PARTIES INCLUDING VENDOR TO CONFIRM THE LOCATION OF THE IMAGE DETECTOR PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE WITH NEW JERSEY SPORTS & EXPOSITION AUTHORITY (NJSEA).
- SEE ITS PLANS FOR ADDITIONAL FIBER OPTIC COMMUNICATION CABLE DETAILS.
- THE COORDINATION WITH NEW JERSEY SPORTS & EXPOSITION AUTHORITY SHALL BE PERFORMED TO INCLUDE THIS INTERSECTION INTO MEADOWLANDS ADAPTIVE SIGNAL SYSTEM FOR TRAFFIC REDUCTION (MASSTR) NETWORK (201-460-4616).
- THE MASSTR COMPATIBLE EQUIPMENT SHALL BE PROVIDED.
- THE MASSTR SUBSYSTEMS SHALL BE PROGRAMMED & CONFIGURED TO CONNECT THIS INTERSECTION INTO THE MASSTR.

LEGEND

- ⑤ TRAFFIC SIGNAL HEAD NUMBER
- A IMAGE DETECTOR LABEL
- ➔ PROPOSED TRAFFIC SIGNAL HEAD (TSH)
- PROPOSED FISH-EYE CAMERA IMAGE DETECTOR (ID)
- ┆ PROPOSED MAST ARM SIGN (MAS)
- ┆ PROPOSED GROUND MOUNTED SIGN
- PROPOSED JUNCTION BOX (JB)
- TRAFFIC SIGNAL STANDARD AND FOUNDATION
- ▣ PROPOSED TRAFFIC CONTROLLER CABINET, FOUNDATION TYPE P-MC

SIGNAL LEGEND



NOTE:
ALL SIGNAL HEADS TO BE SUPPLIED WITH LOUVERS



No.	Revisions	Date	By
A	STREET LIGHT CALLOUTS ADDED	5/03/23	MAC



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Office of Deputy Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



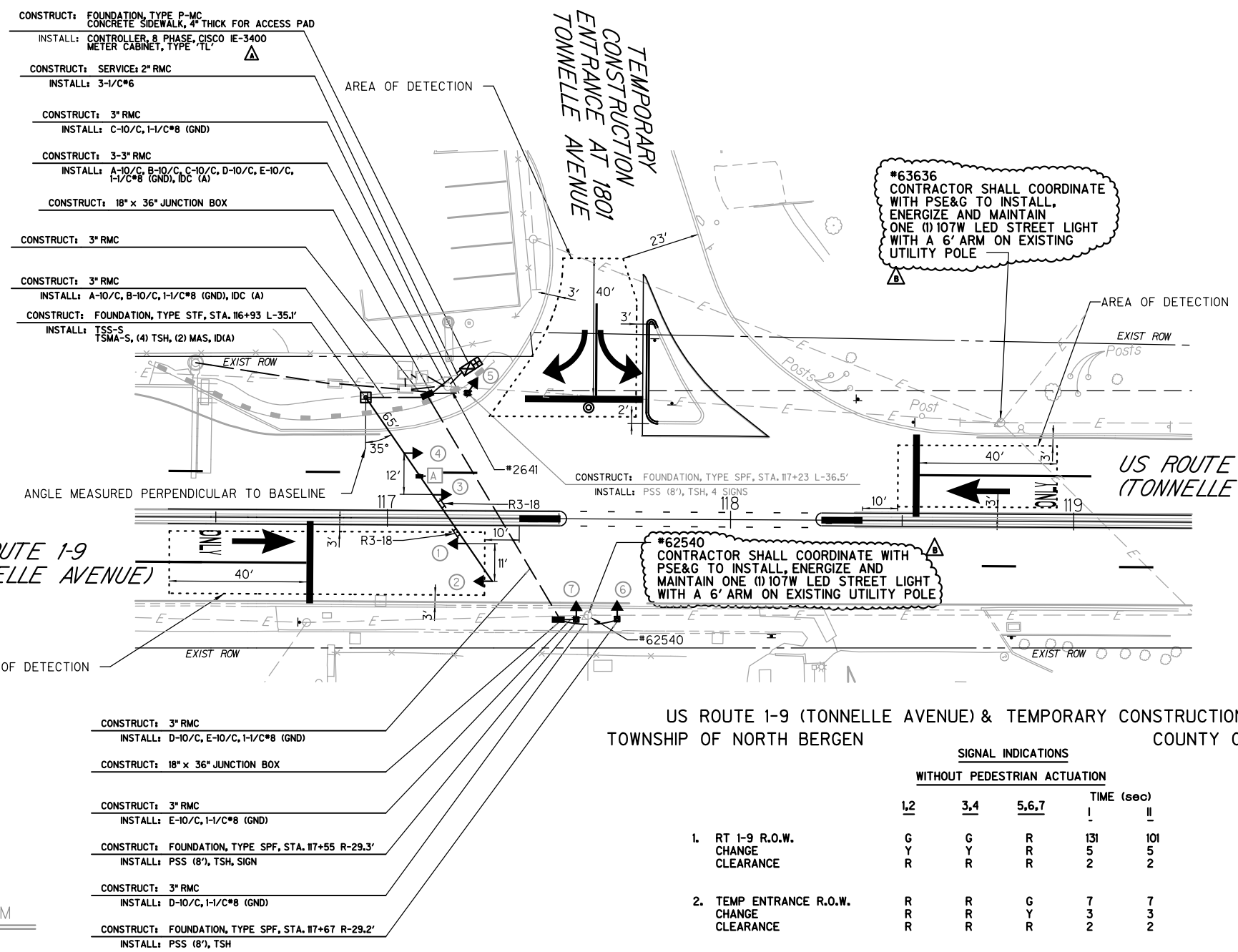
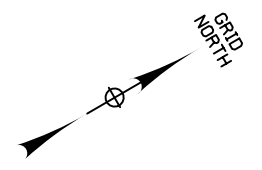
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HUDSON TUNNEL PROJECT
TEMPORARY TRAFFIC SIGNAL PLAN

Contract No. GDC23-002
Sheet No. 81 of 158
Dwg. No. C02-TS-2701

Designed KAM | Drawn KAM | Checked SDY | Date 02/03/2023

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ITEM NUMBER	TO BE CONSTRUCTED	CONTRACT QUANTITY
606012P	CONCRETE SIDEWALK, 4" THICK	2 SY
701015P	2" RIGID METALLIC CONDUIT	10 LF
701021P	3" RIGID METALLIC CONDUIT	170 LF
701022M	18" x 36" JUNCTION BOX	2 UNITS
701132M	FOUNDATION, TYPE P-MC	1 UNIT
701135M	FOUNDATION, TYPE SPF	3 UNITS
701138M	FOUNDATION, TYPE STF	1 UNIT
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	170 LF
701213P	SERVICE WIRE, NO. 6 AWG	30 LF
702009M	CONTROLLER, 8 PHASE	1 UNIT
702015M	TRAFFIC SIGNAL STANDARD, STEEL	1 UNIT
702018M	PEDESTRIAN SIGNAL STANDARD	3 UNITS
702024M	TRAFFIC SIGNAL MAST ARM, STEEL	1 UNIT
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	630 LF
702036M	TRAFFIC SIGNAL HEAD	7 UNITS
702045M	IMAGE DETECTOR	1 UNIT
702060M	CONTROLLER TURN-ON	1 UNIT

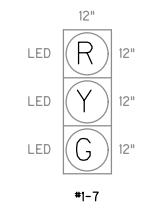
ELECTRICAL PLAN ABBREVIATIONS

GND	GROUND
RMC	RIGID METALLIC CONDUIT
ID	IMAGE DETECTOR
IDC	IMAGE DETECTOR CABLE
MAS	MAST ARM SIGN
PSS	PEDESTRIAN SIGNAL STANDARD
TSH	TRAFFIC SIGNAL HEAD
TSMA-S	TRAFFIC SIGNAL MAST ARM, STEEL
TSS-S	TRAFFIC SIGNAL STANDARD, STEEL

LEGEND

- Ⓢ TRAFFIC SIGNAL HEAD NUMBER
- Ⓐ IMAGE DETECTOR LABEL
- ➔ PROPOSED TRAFFIC SIGNAL HEAD (TSH)
- ➔ PROPOSED FISH-EYE CAMERA IMAGE DETECTOR (ID)
- 1 PROPOSED MAST ARM SIGN (MAS)
- 4 PROPOSED GROUND MOUNTED SIGN
- PROPOSED JUNCTION BOX (JB)
- ☐ TRAFFIC SIGNAL STANDARD AND FOUNDATION
- ☒ PROPOSED TRAFFIC CONTROLLER CABINET

SIGNAL LEGEND



NOTE: ALL SIGNAL HEADS TO BE SUPPLIED WITH LOUVERS



**US ROUTE 1-9 (TONNELLE AVENUE) & TEMPORARY CONSTRUCTION ENTRANCE
TOWNSHIP OF NORTH BERGEN
COUNTY OF HUDSON**

SIGNAL INDICATIONS

	WITHOUT PEDESTRIAN ACTUATION			TIME (sec)	
	1,2	3,4	5,6,7	I	II
1. RT 1-9 R.O.W. CHANGE CLEARANCE	G Y R	G Y R	R R R	131 5 2	101 5 2
2. TEMP ENTRANCE R.O.W. CHANGE CLEARANCE	R R R	R R R	G Y R	7 3 2	7 3 2
EMERGENCY FLASH	Y	Y	R		

- AN OFFSET OF 139 SECONDS IS TO BE MEASURED FROM THE BEGINNING OF YELLOW AT ROUTE 1-9 AT JUGHANDLE (977) TO THE BEGINNING OF YELLOW AT ROUTE 1-9 AT THIS INTERSECTION FOR TIMING SCHEDULE I.
- AN OFFSET OF 114 SECONDS IS TO BE MEASURED FROM THE BEGINNING OF YELLOW AT ROUTE 1-9 AT JUGHANDLE (977) TO THE BEGINNING OF YELLOW AT ROUTE 1-9 AT THIS INTERSECTION FOR TIMING SCHEDULE II.

HOURS OF OPERATION:

TIMING SCHEDULE I (150 SECOND BACKGROUND CYCLE) IS TO BE IN EFFECT MONDAY - FRIDAY, 6:30 AM - 9:00 AM
TIMING SCHEDULE II (120 SECOND BACKGROUND CYCLE) IS TO BE IN EFFECT ALL OTHER TIMES

NOTES:

- (1) THE COORDINATION WITH NEW JERSEY SPORTS & EXPOSITION AUTHORITY SHALL BE PERFORMED TO INCLUDE THIS INTERSECTION INTO MEADOWLANDS ADAPTIVE SIGNAL SYSTEM FOR TRAFFIC REDUCTION (MASSTR) NETWORK (201-460-4616).
- (2) THE MASSTR COMPATIBLE EQUIPMENT SHALL BE PROVIDED.
- (3) THE MASSTR SUBSYSTEMS SHALL BE PROGRAMMED & CONFIGURED TO CONNECT THIS INTERSECTION INTO THE MASSTR.
- (4) SEE ITS PLANS FOR ADDITIONAL FIBER OPTIC COMMUNICATION CABLE DETAILS.

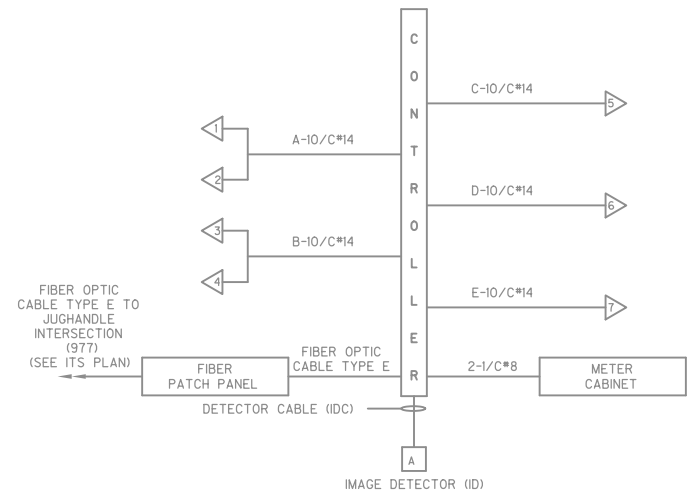
GENERAL NOTE:

- (1) CONTRACTOR TO COORDINATE WITH NJDOT MOBILITY OPERATIONS TO TURN OFF OR DISCONNECT DMS DURING OPERATION OF TEMPORARY TRAFFIC SIGNAL.

*** NOTE:**

GROUND WIRE (GND), 1/C*8 AWG, INSULATED (COLOR GREEN) SHALL BE INSTALLED CONTINUOUSLY THROUGHOUT THE TRAFFIC SIGNAL SYSTEM AND SECURED TO ALL GROUND RODS, CABINETS, TRAFFIC SIGNAL BASES AND LIGHTING BASES AS NOTED.

BLOCK WIRING DIAGRAM



No.	Revisions	Date	By
B	STREET LIGHT CALLOUTS ADDED	5/03/23	MJC
A	CONTROLLER, 8 PHASE NOTE REVISED	3/24/23	MJC



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30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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HUDSON TUNNEL PROJECT
Contract No. GDC23-002
Sheet No. 82 of 158
Deg. No. C02-TS-2702
TEMPORARY TRAFFIC SIGNAL ELECTRICAL PLAN
Designed KAM Drawn KAM Checked SDY Date 02/03/2023

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GENERAL NOTES:

- ADVANCE WARNING SIGNS DISTANCES AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE NJDOT, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
- THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATIONS MAY BE MODIFIED AS APPROVED BY CM TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.
- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES ARE TO BE IN PLACE.
- RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN ARE TO BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS, AND / OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN ARE TO BE COVERED, REMOVED, OR RELOCATED AS DIRECTED BY THE COMMISSION.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS ARE TO BE BAGGED OR COVERED.
- TEMPORARY TRAFFIC STRIPES SHALL BE LATEX TRAFFIC PAINT. TRAFFIC TAPE SHALL BE USED ON THE EXISTING AMTRAK BRIDGE, CONCRETE SURFACE ON SOUTHBOUND AND BD WATERPROOF DECK HMA ON NORTHBOUND, THAT SHOULD NOT BE GROUNDED FOR REMOVAL.**
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) TO BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH TO BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
- CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) TO BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.
- CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) TO BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST.
- MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER, THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT IS TO MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA.
- THE CONTRACTOR TO SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN TO BE SUBMITTED TO THE COMMISSION AS SPECIFIED IN THE SPECIFICATIONS.
- BACKFILL ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY AND PLACE ON AT LEAST 6H:V SLOPE BEFORE THE END OF EACH WORK DAY. OTHER EXCAVATED AREA WITHIN THE CLEAR ZONE ARE TO BE BACKFILLED.
- WHERE REQUIRED, THE CONTRACTOR IS TO MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE COMMISSION.
- BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES TO BE TRANSITIONED ON A MINIMUM 20H:V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.
- THE PLACEMENT AND / OR RELOCATION OF CONSTRUCTION BARRIER CURB TO BE DONE DURING ALLOWABLE LANE CLOSURE HOURS.
- CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE, AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE COMMISSION.
- THE SPEED LIMIT, R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS TO BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE.
- THE REDUCED (MAC, 08FEB2023) SPEED AHEAD SIGN, W3-5(S) (BLACK ON ORANGE) TO BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
- TRAFFIC FINES DOUBLED IN WORK AREA (R1NJ5-17(S)), 4 FEET BY 2.5 FEET SIGN TO BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN TO ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN IS TO BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.
- DO NOT CONSTRUCT THE FINAL HMA SURFACE PAVEMENT UNTIL THE FINAL STAGE OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE COMMISSION OR INDICATED ON THE PLANS. SET MANHOLES AND INLETS TO FINISHED GRADE AND CONSTRUCT TEMPORARY PAVEMENT RAMPS AROUND THEM WITH A MINIMUM 20H:V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.
- PLACE TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. AS SHOWN ON PLANS. NO SIGNS ARE TO BE PLACED WITHOUT ACTUAL LANE CLOSURES AND REMOVE IMMEDIATELY UPON REMOVAL OF THE CLOSURES.
- CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE COMMISSION.
- TRAFFIC IMPACT NOTICES AND CHANGES
 - TERMS: WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING IS AS FOLLOWS:
 - IMPACTS TO NORMAL TRAFFIC FLOW - WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES, INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED.
 - TEMPORARY LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS.
 - PERMANENT LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.
 - ADVANCE NOTICES

FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR IS TO NOTIFY THE COMMISSION IN WRITING, ON THE ADVANCE FORM TO-103 PROVIDED BY THE NJDOT, OF THE PROPOSED DATE. THE NOTICE IS TO BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, BEFORE THE PROPOSED DATE. START OF WORK THAT IMPACTS NORMAL TRAFFIC FLOW WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR IS TO CONFIRM, IN WRITING TO THE COMMISSION, THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE COMMISSION IF THE PROPOSED ESTABLISHMENT CANNOT BE COMPLETED ON THE PROPOSED DATE.

FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR IS TO NOTIFY THE COMMISSION IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED. THE NOTICE IS TO BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR IS TO CONFIRM, IN WRITING TO THE COMMISSION, THE PROPOSED DATE OF THE NEW TRAFFIC PATTERN SEVEN (AND/OR FOURTEEN) DAYS BEFORE STARTING TRAFFIC CONTROL MEASURES FOR THE ESTABLISHMENT OF THE NEW PATTERN. THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE COMMISSION IF THE PROPOSED ESTABLISHMENT CANNOT BE COMPLETED ON THE PROPOSED DATE.

STARTING THE ESTABLISHMENT OF A NEW PERMANENT TRAFFIC PATTERN IS TO BEGIN NO EARLIER THAN 11:00 PM FRIDAY AND BE COMPLETED AND READY FOR OPERATIONS BY 6:00 PM THE FOLLOWING SUNDAY. THE ESTABLISHMENT IS TO BE COMPLETED IN ACCORDANCE WITH THE LANE CLOSURE HOURS SPECIFIED IN THE CONTRACT.

ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING ARE TO BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 101.04 OF THE SPECIAL PROVISIONS.
 - PROGRESS NOTICES (USE NJDOT WEEKLY FORM TO-101 AND DAILY FORM TO-102)

ALL "IMPACTS TO NORMAL TRAFFIC FLOW" SCHEDULED FOR THE SEVEN DAY PERIOD STARTING ON THE FOLLOWING MONDAY ARE TO BE SUBMITTED TO THE COMMISSION BY 9:00 AM OF EACH FRIDAY ON WEEKLY FORM TO-100 PROVIDED BY THE NJDOT.

EACH DAY OF "TEMPORARY LANE CLOSURES" ARE TO BE SUBMITTED TO THE COMMISSION BY 9:00 AM ON THE DAY IN ADVANCE OF THE START OF THOSE OPERATIONS ON DAILY FORM TO-101 PROVIDED BY THE NJDOT.

"TEMPORARY LANE CLOSURES" FOR WEEKENDS ARE TO BE SUBMITTED TO THE COMMISSION BY 9:00 AM ON THE IMMEDIATELY PRECEDING FRIDAY ON THE DAILY FORM TO-101 PROVIDED BY THE NJDOT.
 - CHANGES TO THE SCHEDULED CLOSURES (USE NJDOT FORM DC-189a)

REQUEST FOR A CHANGE TO THE TRAFFIC CONTROL REQUIREMENTS IN THE CONTRACT DOCUMENTS ARE TO BE SUBMITTED IN WRITING TO THE COMMISSION AS FOLLOWS:

CHANGES TO THE SCHEDULED HOURS FOR "TEMPORARY LANE CLOSURES" ARE TO BE SUBMITTED TO THE COMMISSION AT LEAST EIGHT CALENDAR DAYS IN ADVANCE OF WHEN THE CHANGE IS PROPOSED TO START.

OTHER PROPOSED CHANGES TO "TEMPORARY LANE CLOSURES" AND ALL CHANGES TO "PERMANENT LANE CLOSURES" ARE TO BE SUBMITTED TO THE COMMISSION AS SPECIFIED IN THE SPECIFICATIONS.

LANE CLOSURE HOURS AND NOTES:

ROUTE 1&9 BOTH DIRECTIONS, MP 56.0 TO 58.20 (TWO TRAVEL LANE SECTION)

ALL LANES MAINTAINED:

MONDAY THROUGH FRIDAY	6:00 AM TO 10:00 PM
SATURDAY	7:00 AM TO 10:00 PM
SUNDAY	8:00 AM TO 10:00 PM

ONE LANE MAINTAINED (ONE LANE CLOSED):

MONDAY THROUGH THURSDAY	10:00 PM TO 6:00 AM (NEXT DAY)
FRIDAY	10:00 PM TO 7:00 AM (SATURDAY)
SATURDAY	10:00 PM TO 8:00 AM (SUNDAY)
SUNDAY	10:00 PM TO 6:00 AM (MONDAY)













IF HOLIDAY FALLS ON	NO LANE CLOSURES PERMITTED
SUNDAY OR MONDAY	6:00 AM FRIDAY UNTIL NOON TUESDAY
TUESDAY	6:00 AM FRIDAY UNTIL NOON WEDNESDAY
WEDNESDAY	6:00 AM TUESDAY UNTIL NOON THURSDAY
THURSDAY	6:00 AM WEDNESDAY UNTIL NOON MONDAY
FRIDAY OR SATURDAY	6:00 AM THURSDAY UNTIL NOON MONDAY

ONE TRAVEL LANE MAY BE CLOSED FOR AN EXTENDED WEEKEND BETWEEN FRIDAY 11:00PM TO MONDAY 5:00 AM. THE CONTRACTOR MUST SUBMIT A DATE FOR APPROVAL FROM NJDOT MOBILITY ENGINEERING WORK ZONE NORTH 3 WEEKS PRIOR TO PROPOSED CLOSURE.

ALSO, ONCE THE CONSTRUCTION BEGINS NJDOT WILL REQUIRE TO-103 ADVANCE NOTICE FORM FOR 28 DAYS/14 DAYS/7 DAYS. THIS WILL HELP NJDOT PREPARE APPROPRIATE MITIGATION MEASURES TO ALERT THE MOTORIST WELL IN ADVANCE. CONTRACTOR SHALL SUBMIT THIS TO THE COMMISSION REPRESENTATIVE.

- THE PROPOSED WORK MUST BE COORDINATED WITH ANY OTHER PROJECTS THAT MAY BE UNDERWAY AT THE SAME TIME NEAR THE PROJECT AREA.
- ACCESS TO ALL DRIVEWAYS AND FIRE LANES MUST BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS AND ONE DRIVEWAY AND ALL FIRE LANES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- NO LANE CLOSURES, RAMP CLOSURES, SHOULDER CLOSURES OR TRAFFIC SHIFTS WILL BE PERMITTED ON THE FOLLOWING HOLIDAYS:
 - EASTER SUNDAY (INCLUDING 6:00 AM SATURDAY UNTIL NOON MONDAY)
 - MEMORIAL DAY (SEE TABLE ABOVE)
 - JULY 4TH (SEE TABLE ABOVE)
 - LABOR DAY (SEE TABLE ABOVE)
 - ELECTION DAY (6:00 AM UNTIL 8:00 PM THE DAY OF)
 - THANKSGIVING DAY (SEE TABLE ABOVE)
 - CHRISTMAS DAY (SEE TABLE ABOVE)
 - NEW YEARS DAY (SEE TABLE ABOVE)
- SHOULDERS SHALL BE OPEN WEEKDAYS FROM 6AM TO 9AM AND 3PM TO 8PM FOR MORNING AND EVENING RUSH HOURS.
- FOR TRAFFIC SHIFTS DURING CONSTRUCTION, SIGNS WILL BE NEEDED TO DESIGNATE BUSINESS DRIVEWAYS TO MINIMIZE TRAFFIC CONFUSION.
- RAMPS / AUXILIARY LANES / SIDE STREETS MAY BE CLOSED BETWEEN THE HOURS OF 11:00 PM AND 5:00 AM THE NEXT DAY UNLESS OTHERWISE SPECIFIED. AN APPROVED SIGNED DETOUR IS REQUIRED FOR ALL RAMPS / AUXILIARY LANES / SIDE STREETS CLOSURES. TWO CONSECUTIVE RAMPS / AUXILIARY LANES / SIDE STREETS MAY NOT BE CLOSED AT THE SAME TIME.
- A TRAFFIC MANAGEMENT PLAN WILL BE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE NJDOT TRAFFIC MITIGATION GUIDELINES, BDC14T-01.
- PLEASE PROVIDE PORTABLE VARIABLE MESSAGE SIGNS OF WHOSE LOCATIONS AND MESSAGES WILL BE INCLUDED AS PART OF THE CONTRACT PLANS.

LEGEND

-  BREAKAWAY BARRICADES
-  BREAKAWAY BARRICADES WITH SIGN
-  CONSTRUCTION SIGNS
-  DRUMS
-  PRECAST CONCRETE CONSTRUCTION BARRIER CURB (CBC) (TYPE 4)
-  DIRECTION OF TRAFFIC FLOW
-  TRAILER MOUNTED ARROW BOARD SHOWING CAUTION MODE
-  TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Right)
-  TEMPORARY CRASH CUSHION, QUADGUARD 24", 4 BAYS, OR APPROVED EQUAL
-  BUFFER ZONE
-  WORK AREA
-  TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE (TMA)


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No.	Revisions	Date	By
A	ADDED NOTES FOR ONE-LANE CLOSURE	05/03/23	DC



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Office of Deputy Chief Engineer
STRUCTURES
 National Railroad Passenger Corporation
 30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date
	

The Gateway Trans-Hudson Partnership
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GATEWAY PROGRAM

HUDSON TUNNEL PROJECT

CIVIL TRAFFIC CONTROL NOTES

Designed DC Drawn MJM Checked DY Date 02/03/2023

Contract No. GDC23-002
 Sheet No. 85 of 158
 Dwg. No. C02-TF-2001

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Requirements for temporary utilities, temporary highway lighting, support facilities, and security and protection facilities.

1.02 RELATED DOCUMENTS

- A. Not applicable.

1.03 REFERENCED SECTIONS

- A. Section 00 71 00, "Contracting Definitions."
- B. Section 01 33 23, "Shop and Working Drawings, Product Data, Samples."
- C. Section 01 35 43, "Environmental Procedures."
- D. Section 01 35 53, "Security Procedures."
- E. Section 01 73 00, "Execution."

1.04 CITED STANDARDS

- A. NJDOTSS: Standard Specifications for Road and Bridge Construction of the New Jersey Department of Transportation dated 2007 and including all approved changes to the Standard Specification as provided in the current NJDOT Standard Input (SI).
- B. ASTM International (ASTM)
 - 1. 136: Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
 - 2. E84: Standard Test Method for Surface Burning Characteristics of Building Materials
- C. National Fire Protection Association (NFPA)
 - 1. 70: National Electrical Code
 - 2. 241: Standard for Safeguarding Construction, Alteration, and Demolition Operations.

1.05 ABBREVIATIONS AND DEFINITIONS

- A. Refer to Section 00 71 00.

1.06 NOTED RESTRICTIONS

- A. None noted.

1.07 QUALITY CONTROL

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for the AHJ to test and inspect each temporary utility before use. Obtain required certifications and permits.
- C. Design temporary construction in accordance with the appropriate criteria of the Commission, subject to the inspection and approval of Commission Representative.
- D. Commission Representative has the right to reject or condemn any plant, apparatus or staging which, in Commission Representative’s opinion, is improper or inadequate. Whether the Commission Representative exercises this authority or not, the Contractor is not relieved of his responsibility for the safe, proper, and lawful construction, maintenance and use of such plant, apparatus or staging. Rework condemned plants or equipment to an acceptable condition or remove from the Work Site.

1.08 SUBMITTALS FOR REVIEW AND APPROVAL

- A. The Contractor shall submit the following to the Commission Representative for review and approval, prior to the start of work on any temporary facilities and controls:
 - 1. Working Drawings for Temporary Structures: Submit detailed working drawings, in a format approved by Commission Representative, for temporary structures such as falsework and shoring, and for other work as may be required by Commission Representative. Submit backup calculations and any other information needed to explain the systems and their intended use. Take responsibility for such drawings and for the safe and successful construction of the work. All drawings and calculations shall be prepared and sealed by a Professional Engineer registered in the State of New Jersey.
 - a.) Comply with requirements for Shop Drawings in Section 01 33 23.
 - 2. Working Drawings for Temporary Highway Lighting: At least thirty (30) days before beginning this work, submit working drawings in accordance with NJDOTSS Paragraph 703.03.07.

1.09 SUBMITTALS FOR REVIEW AND INFORMATION

- A. The Contractor shall submit to the cognizant local authority all documentation of the installed electrical supply required by the applicable local building codes, with copies to the Commission Representative.
- B. The Contractor shall submit the following to the Commission Representative for review and information in a timely manner as the Work progresses:
 - 1. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
 - 2. Erosion and Sedimentation Control Plan: Refer to Section 01 35 43. Show compliance with requirements of EPA Construction General Permit or AHJ, whichever is more stringent.

3. Moisture Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage, including delivery, handling, and storage provisions for materials subject to water absorption or water damage, discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.
 - a.) Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.
4. Dust Control Plan: Refer to Section 01 35 43. Submit coordination drawing and narrative that indicates the dust-control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further options if proposed measures are later determined to be inadequate. Include the following:
 - a.) Dust control measures.
 - b.) Waste management plan.

1.10 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the Commission's forces, Commission Representative, testing agencies, and the AHJ.
- B. Sewer Service: Pay sewer service use charges for sewer usage by all entities for construction operations.
- C. Water Service: Pay water service use charges for water used by all entities for construction operations.
- D. Electric Power Service: Pay electric power service use charges for electricity used by all entities for construction operations.

1.11 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage the installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before the Commission's acceptance, regardless of previously assigned responsibilities.
- B. Obtain easements as may be required across non-Commission property and pay all costs (if any) in connection therewith.
- C. Temporary Highway Lighting: Upon Final Completion of the Contract, the Commission shall become responsible for the operation and maintenance of the temporary highway lighting described in this Section.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Chain-Link Fencing: Minimum 2 inch, 0.148-inch thick, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2³/₈ inch OD line posts and 2⁷/₈ inch OD corner and pull posts. Construction fencing will be clad with aesthetically attractive or artistically enhanced fabric.
- B. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10 mils minimum thickness, with flame-spread rating of 15 or less per ASTM E 84.

2.02 TEMPORARY FACILITIES

- A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Commission's Field Office: Of sufficient size to accommodate needs of the Commission's construction personnel office activities and to accommodate project meetings specified in other Division 01 Sections. This field office shall be on-site, fully equipped, and ready to use before the Contractor team arrives on-site. Keep the office clean and orderly. Furnish and equip offices as follows:
 - 1. Furniture required for Project site documents including file cabinets, plan tables, plan racks, and bookcases.
 - 2. Conference room of sufficient size to accommodate meetings of 15 to 20 individuals. Provide electrical power service and 120 VAC duplex receptacles, with not less than 1 receptacle on each wall. Furnish room with conference table, chairs, and 4-foot square tack and marker boards.
 - 3. WiFi shall be provided at this field office.
 - 4. Drinking water and private toilet.
 - 5. Coffee machine and supplies.
 - 6. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68°F to 72°F.
 - 7. Lighting fixtures capable of maintaining average illumination of 20 foot-candles at desk height.
- C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
 - 1. Store combustible materials away from building.
- D. Community Outreach Facility: Of sufficient size to accommodate needs of the Commission's community outreach office activities and to accommodate a comprehensive, active, and responsive community outreach program during construction. This field office shall be on-site, fully equipped, and ready to use before the Contractor team arrives on-site. Keep the office clean and orderly. Furnish and equip offices as follows:
 - 1. Furniture required for Commission personnel assigned to this office, plus file cabinets, bookcases, plan tables, plan racks, and routine office supplies.

2. Conference room of sufficient size to accommodate meetings of 15 to 20 individuals with an independent ADA-compliant exterior entrance. Provide electrical power service and 120 VAC duplex receptacles, with not less than 1 receptacle on each wall. Furnish room with conference table, chairs, 4-foot square tack and marker boards, and a television screen.
3. Office room with an independent exterior entrance and lockable entrance to the conference room of sufficient size to accommodate a desk at least one staff member. Provide 120 VAC duplex receptacles, with not less than 1 receptacle on each wall. Furnish room with a desk and chair, and 4-foot square tack and marker boards.
4. WiFi shall be provided at this field office.
5. Drinking water and private, ADA-compliant toilet.
6. Coffee machine and supplies.
7. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68°F to 72°F.
8. Lighting fixtures capable of maintaining average illumination of 20 foot-candles at desk height.
9. Four (4) designated parking places with one of the places being ADA-compliant spot.

2.03 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Unless the Commission Representative authorizes use of a permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
- C. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
- D. Heating Units: Listed and labeled for type of fuel being consumed, by a testing agency acceptable to the AHJ, and marked for intended use.
- E. Permanent HVAC System: If the Commission Representative authorizes use of a permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return air grille in system and remove at end of construction and clean HVAC system as required in Section 01 77 00.
- F. Air Filtration Units: HEPA primary and secondary filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

2.04 TEMPORARY HIGHWAY LIGHTING

- A. Furnish materials used for the temporary highway lighting shown on the Contract Drawings in accordance with NJDOTSS Paragraphs 703.03.02 and 703.03.07.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

- A. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work. Locate facilities to limit site disturbance.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.02 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company and Commission Representative for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
 - 1. The Contractor shall pay all charges for water service.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of the AHJ for type, number, location, operation, and maintenance of fixtures and facilities.
- D. Electric Power Service:
 - 1. Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations. Temporary electrical service shall be independent of the existing permanent service. Initial temporary service shall be three phase or single phase depending upon which phase is nearest to the Project site. This service shall be installed within 15 days after the date of the Notice to Proceed. When the Contract calls for three-phase permanent service, the Contractor shall install same within a reasonable time to permit use by all the trades.
 - 2. The Contractor shall extend the service into the building(s) and shall provide such receptacles and lighting as required for the proper conduct of the Work.
 - 3. Install electric power service overhead, unless otherwise indicated.
 - 4. The Contractor shall pay for cost of all electric energy used, and it shall also maintain and service any electrical equipment installed and necessary for maintaining heat that is required in the building(s).
- E. Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating the entire system.

2. Lighting at staging areas shall be downward directed and shielded to minimize light pollution affecting adjacent areas. This lighting shall be reduced during times when construction is not occurring at these locations.
 3. Install lighting for the Project Signs described elsewhere in this paragraph.
- F. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install at least one telephone line for each field office.
1. Provide additional telephone lines for the following:
 - a.) Provide a dedicated telephone line for each facsimile machine in each field office.
 2. At each telephone, post a list of important telephone numbers.
 - a.) Police and fire departments;
 - b.) Ambulance service;
 - c.) Contractor's home office;
 - d.) Commission Representative's office;
 - e.) Engineers' offices if applicable;
 - f.) Amtrak's offices; and
 - g.) Principal subcontractors' field and home offices.
 3. Provide superintendent with cellular telephone or portable two-way radio for use when away from the field office.

3.03 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E136. Comply with NFPA 241.
 2. Maintain support facilities until Commission Representative schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to the Commission Representative.
 3. The Commission Representative will direct the location of the Community Outreach Facility.
- B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas as indicated on the Drawings.
1. Provide dust-control treatment that is non-polluting and non-tracking. Reapply treatment as required to minimize dust.
- C. Traffic Controls: Comply with requirements of the AHJ, including providing any temporary controls or devices required to eliminate or minimize congestion or obstruction of local vehicular traffic caused by the Work.

1. Protect existing site improvements to remain including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.
- D. Provide temporary off-site parking areas for construction personnel. At the Community Outreach Facility, provide one parking place for persons with disabilities and three standard parking places.
- E. Dewatering Facilities and Drains: Comply with requirements of the AHJ. Maintain the Work Site, excavations, and construction free of water.
 1. Dispose of rainwater in a lawful manner that will not result in flooding the Project or adjoining properties nor endanger permanent Work or temporary facilities.
 2. Remove snow and ice as required to minimize accumulations.
- F. Project Signs: Provide Project identification signs as indicated on the Drawings. Identification Signs shall include the names of the Contractors engaged on the Project and such other persons or entities as directed.
 1. If the Contractor desires to install a sign other than those specified in the Contract Documents, it shall first obtain the approval of the Commission Representative.
 2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to the Work Site.
 - a.) Provide temporary, directional signs for construction personnel and visitors.
 3. Maintain and touch up signs so they are always legible.
- G. No Advertisements: The use of fences and buildings for advertising purposes, and placement of advertisements and signs, is prohibited.
- H. Waste Disposal Facilities: Comply with the requirements of Section 01 35 43. Comply with Section 01 73 00 for progress cleaning requirements.
- I. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 1. Truck cranes and similar devices used for hoisting materials are considered “tools and equipment” and not temporary facilities.

3.04 ROADWAYS

- A. Unless otherwise specified, use established public roadways and the Commission’s service roads for site access. If temporary roads are required, coordinate the location and the construction with the Commission Representative.
- B. The Contractor shall maintain all Commission service roads and temporary roads used during construction. Maintenance shall include but not be limited to removal of snow, mowing grass, collection and disposal of litter and debris near the work, offices, yards, and storage areas.

3.05 SITE SECURITY

- A. The Contractor shall maintain a secure work site, protecting the interests and property of the Railroad from claims arising from trespassing, theft, and vandalism. The Contractor shall be responsible for the total security of the Work Site. The security shall cover, but not necessarily be limited to, security lighting, security fencing and guard service to protect property, personnel, materials and work.
- B. Materials and equipment belonging to the Contractor or subcontractors shall not be stored on the property of the Railroad without first having obtained permission from Commission Representative and such permission will be on the condition that the Railroad will not be liable for loss of or damage to such materials and equipment from any cause.
- C. The Contractor shall provide such security measures as may be required to protect their tools, equipment, and property and that of their subcontractors from damage, theft, or vandalism.
- D. In the event that National Security Levels are increased to Code Orange or Code Red, the Commission Representative will immediately reinstate all Work Site security policies for all this contract. The requirements are as follows:
 - 1. In addition to the required Amtrak Safety Training ID cards, all individuals working on-site must receive a Work Site specific badge directly from the Contractor, including subcontractors, suppliers, Contractor's staff, design team members and Project Commission's other project team members. Each badge will have a control number to track the recipient's name and employer. Contractor shall maintain a list of all badges and names on file at the Project Field Office for the Commission's daily use.
 - 2. Names and Social Security numbers of all Safety Trained personnel working onsite will be on file with the Amtrak Safety Department and are available to Amtrak Police for their use during a declared heightened state of security.
 - 3. All personnel working onsite or traveling to the Work Site must have available their Project Badge and Amtrak Safety Training ID Cards upon request from Police or Commission Representative. Failure to produce the required identification will result in immediate removal from the Work Site.
 - 4. All subcontractor onsite equipment, storage containers and jobsite workboxes are to be on file with the Contractor. All new containers introduced to the site must be recorded with the Contractor's Field Office.
 - 5. All deliveries must be scheduled with the Commission Representative prior to delivery to the Work Site. All deliveries are subject to inspection and search by the Commission Representative. Refer to the SSP described in Section 01 35 53 and specific work plans for deliveries prior to establishing work zone to and as approved by the Commission Representative.

3.06 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so the Work Site will be free of pests and their residues at Substantial Completion. Obtain extended

- warranty for the Commission. Perform control operations lawfully, using environmentally safe materials.
- B. Site Enclosure Fence: Before construction operations begin, furnish, and install site enclosure fence in a manner that will prevent people and animals from easily entering the site except by entrance gates.
1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to the Commission Representative.
- C. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
1. The Contractor's field office for the Work is subject to the following requirements:
 - a.) The field office shall be locked at the end of each day;
 - b.) Security window guards shall be installed on all windows; and
 - c.) Keys to locks shall be limited in distribution to the Contractor's management staff, and the Commission Representative's staff.
- D. Barricades, Warning Signs, and Lights: Comply with requirements of the AHJ for erecting structurally adequate barricades, including warning signs and lighting.
- E. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by the AHJ.
- F. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
1. Where heating or cooling is needed and a permanent enclosure is not complete, insulate temporary enclosures.
- G. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of the AHJ.
 3. Develop and supervise an overall fire-prevention and -protection program for personnel at the Work Site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only

and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.07 TEMPORARY ENCLOSURES AND PARTITIONS

- A. Whenever necessary, to maintain proper temperatures for the prosecution of the Work, or for the protection thereof, the Contractor shall furnish and maintain temporary enclosures and partitions. All openings in exterior walls not enclosed with finishing materials shall be closed temporarily. Window sashes may be installed and glazed. Temporary wood doors shall be provided at door openings. Temporary partitions shall be securely anchored, stable, well-constructed and maintained, and fit for the purpose intended, including but not limited to Work area separation, protection of the public, delineation of pedestrian pathways.
- B. The Contractor shall provide and maintain necessary temporary dustproof partitions around areas of work in any existing building.

3.08 GLAZING

- A. The Contractor shall be responsible for all breakage of glazing after same has been installed, no matter by whom or what caused, and shall replace all broken, scratched or otherwise damaged glazing before the completion and acceptance of the work. The Contractor shall wash all glazing on both sides at completion, or when directed, removing all paint spots, stains, plaster, etc.

3.09 PROTECTION OF PROPERTY

- A. Utilities: Before commencing the Work, verify the location of all utility facilities in the vicinity of the Work. Test pitting is required on some utilities. Prior to beginning work affecting any utility facility, submit to Commission Representative for approval a plan for performing the work, with evidence of approval by the utility operator.
- B. Protection of Existing Surfaces and Facilities:
 - 1. Take positive action to protect all existing surfaces and facilities from any damage resulting from the Work unless modifications to the surfaces or facilities are required as a part of the Contract.
 - 2. Protect all paving, landscaping, and utility facilities from damage caused by mobile and stationary equipment, including vehicles delivering materials to the site. Any damage shall be repaired at the Contractor’s sole expense.
 - 3. Provide and maintain adequate protection for all adjacent structures. When required by law, or for the safety of the work, shore, brace, underpin, or otherwise protect those portions of adjacent structures which may be affected by the work. The Contractor, before commencement of any part of the Work, shall give any notices required to be given to adjoining property Commission(s) or other parties.
- C. Protection of New Work
 - 1. All finished surfaces of items shall be clean and not marred upon acceptance of the structure. Refinish all such surfaces that have been inadequately protected and are damaged.

2. At all times, the Contractor shall provide and maintain adequate protection against weather to preserve all work, materials, equipment, apparatus, and fixtures free from injury or damage.
 3. Do not use items of equipment or materials that are intended to form a part of the complete work as construction equipment without specific approval from Commission Representative in each instance.
 4. Do not load or permit any part of a structure to be so loaded as to endanger its safety.
- D. Repair of Damage to Commission's Facilities: Any damage to the track, electric traction facilities, catenary towers, signal and communications facilities, and the existing structure caused by the Contractor shall be immediately reported to the Commission Representative. All repairs will be made by the Commission at the Contractor's expense.

3.10 FIRE PROTECTION

- A. Take adequate precautions against fire throughout all operations. Flammable material shall be kept at an absolute minimum and shall be properly handled and stored.
- B. Work practices, including, cutting, welding, and protection during the Work shall be in accordance with the published standards of FM Global and the NFPA. Provide a sufficient number of approved non-freeze portable fire extinguishers distributed about the Work Site, to the satisfaction of the Commission Representative.
- C. Store gasoline and other flammable liquids in UL listed safety containers in a conformance with the National Board of Fire Underwriters recommendations.

3.11 MOISTURE AND MOLD CONTROL

- A. In accordance with the Contractor's submitted Moisture Protection Plan, avoid trapping water in finished Work. Document visible signs of mold that may appear during construction.
- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
 1. Protect porous materials from water damage;
 2. Protect stored and installed material from flowing or standing water;
 3. Keep porous and organic materials from coming into prolonged contact with concrete;
 4. Remove standing water from decks; and
 5. Keep deck openings covered or dammed.

3.12 TEMPORARY HIGHWAY LIGHTING

- A. Install, test, and commission the temporary highway lighting shown on the Contract Drawings in accordance with NJDOTSS Section 703.

- B. Prior to Final Completion, the Commission Representative will arrange an inspection of the temporary highway lighting, and the Contractor will be responsible for all work necessary to bring the temporary lighting into compliance with the Contract Drawings and applicable NJDOT requirements, prior to Commission acceptance.

3.13 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Operate Project-identification-sign lighting daily from dusk until 12:00 midnight.
- D. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- E. Termination and Removal: Except for the temporary highway lighting provided hereunder, remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, and in any case no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor, noting:
 - a.) The Commission reserves the right to take possession of Project identification signs.
 - b.) The Commission will take possession of temporary highway lighting provided hereunder at Final Completion upon satisfactory completion of the inspection to be performed prior to Final Completion.
 - 2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where the area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by the AHJ.
 - 3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 77 00.

PART 4 - MEASUREMENT AND PAYMENT

4.01 GENERAL

- A. All costs for temporary highway lighting as specified herein, including materials, testing, commissioning, electric power, and maintenance, shall be included in the Unit Price for Item 1.9, "Temporary Highway Lighting (01 50 00)."
- B. The following costs associated with the Community Outreach Facility shall be included in the Unit Price for Item 1.10, "Community Outreach Facility (01 50 00)." Setup and monthly lease of the trailer; parking area; monthly costs for Wi-Fi, power, water cooler, sanitary, security, and cleaning; routine office supplies; computer; television screen.
- C. All other costs for the work of this Section associated with the Project as specified herein and as shown on the Contract Drawings shall be included in the Unit Price for Item No. 1.3, "Field Office (01 50 00)."
- D. The Unit Price for each Item shall also include the cost of incidental and necessary work to complete the work of this Section for that Item as specified and shown on the Contract Drawings.

4.02 MEASUREMENT

- A. No specific measurement will be made for the work of this Section as specified herein and as shown on the Contract Drawings.

4.03 PAYMENT

- A. Payment for the temporary highway lighting described in Paragraph 4.01 A of this Section will be included in the Lump Sum Price under Payment Item 1.9, "Temporary Highway Lighting (01 50 00)."
- B. Payment for the Community Outreach Facility costs described in 4.01 B of this Section will be included in the Lump Sum Price under Payment Item 1.10, "Community Outreach Facility (01 50 00)."
- C. All other work of this Section will be included in the Lump Sum Price under Payment Item No.1.3, "Field Office (01 50 00)."

4.04 PAYMENT ITEMS

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
1.3	Field Office (01 50 00)	Allowance
1.9	Temporary Highway Lighting (01 50 00)	Allowance
1.10	Community Outreach Facility (01 50 00)	Allowance

REVISION HISTORY

Revision No.	Date	Summary
0	OCT 2022	Original version with signed and sealed documents
2	MAY 2023	<p>Requirement for aesthetic cladding of construction fencing added to Paragraph 2.01A.</p> <p>Temporary highway lighting added in Paragraph 1.01A. New Jersey Department of Transportation Standard Specifications (NJDOTSS) added as a Cited Standard in Paragraph 1.04. Requirements for working drawings for temporary highway lighting added to Paragraph 1.08A. Temporary highway lighting added to the Project Conditions in Paragraph 1.11. Materials for temporary highway lighting added as Paragraph 2.04. Installation of temporary highway lighting added as Paragraph 3.12, and former Paragraph 3.12 is now Paragraph 3.13. Paragraph 3.13E is changed to exclude temporary highway lighting and to say that the Commission will take possession of temporary highway lighting. Measurement and payment for temporary highway lighting is added to Paragraphs 4.01, 4.03, and 4.04.</p> <p>Provisions for a Community Outreach Facility added to paragraphs 2.02, 3.03, 4.01, 4.03, and 4.04.</p>

END OF SECTION

SECTION 02 81 00.13
STAGING, HANDLING, TRANSPORTATION,
AND DISPOSAL OF HAZARDOUS MATERIALS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Requirements for furnishing all labor, materials, tools, and equipment, and performing all operations necessary for staging, handling, transportation, and disposal of hazardous waste encountered during execution of the Contract.

1.02 REFERENCED SECTIONS

- A. Section 00 71 00, "Contracting Definitions."
- B. Section 01 35 23.01, "Safety Planning and Supervision."
- C. Section 02 24 00, "Chemical Sampling and Analysis."
- D. Section 02 41 00, "Demolition Work."
- E. Section 02 61 13.13, "Staging, Handling Transportation and Disposal of Petroleum Contaminated Materials."
- F. Section 02 61 13.19, "Staging, Handling, Transportation, and Disposal of Non-Hazardous and Non-Petroleum Contaminated Materials."
- G. Section 31 23 50, "Excavation, Embankment, and Backfill."
- H. Section 31 25 00, "Soil Erosion and Sedimentation Control."

1.03 CITED STANDARDS

- A. SW-846 Method 9095B (2004) Paint Filter Liquids Test

1.04 NOTED RESTRICTIONS

- A. All hazardous soil and other hazardous waste shall be removed from the Work Site and delivered to the Commission-approved TSD facility within 90 days of the generation start date.
- B. Do not move any hazardous soil and other hazardous waste from their original work site to any other location on the Project Site without express written permission from the Commission Representative.
- C. All employees of the Contractor and subcontractors involved in the Work shall possess all permits and/or licenses required under the TSCA, the RCRA, as well as any State or local permits or licenses required, for the removal, transportation, and disposal of hazardous waste.
- D. All hazardous waste removed hereunder shall be lawfully treated and disposed of at an EPA approved TSD, in accordance with all applicable Federal, State and local laws and regulations, including the NJDEP.

- E. At the time of disposal of hazardous waste, completed shipping documents which contain the information required under N.J.A.C. 7:26 (hereinafter the "Manifest Form") shall be provided.
 - 1. Item #1 on the Manifest, "Generator's USEPA Identification Number", shall be obtained from the Commission Representative
- F. In addition, provide Certificates of Destruction or Certificates of Disposal, which specify that the hazardous waste has been properly disposed of by the TSD. Such Certificates shall include references to the Manifest Form for the original shipment from NJ TRANSIT property and the final shipment to the ultimate treatment or disposal site as well as the address and the EPA identification number for the generator facility. The Commission, Amtrak and NJ TRANSIT shall have the right to inspect and verify quantities of hazardous waste removed.
- G. Legal title to all hazardous waste shall pass to the Contractor simultaneously with their removal from each Work Site.
- H. All TSD Facilities and transporters for the treatment and/or disposal and transport hazardous waste picked up hereunder shall be approved for use by the Commission prior to any removal from the Work Site. The Commission, Amtrak and NJ TRANSIT reserve the right to inspect all transporters, equipment storage facility, and TSD facility at any time prior to or subsequent to the award of this Contract.
- I. Should any problems arise regarding the TSD facility chosen to accept the waste for treatment and disposal that would require the return of the waste to the Commission or shall such TSD facility have violated any environmental regulation which would result in any regulatory enforcement action, a notification shall immediately be submitted to the Commission Representative in writing of such situation, and make provisions for the lawful storage of this waste, until an alternate TSD facility is located by the Contractor and approved by the Commission Representative.
- J. Due to site constraints, the Contractor may be required to perform in-situ characterization of soil and/or groundwater as prescribed in this section, Section 02 24 00; Section 02 61 13.13 and Section 02 61 13.19.

1.05 ABBREVIATIONS AND DEFINITIONS

- A. Refer to Section 00 71 00.

1.06 QUALITY CONTROL

- A. General: Quality Control shall comply with the General Provisions and the Special Provisions, except as modified herein.
- B. Regulatory Requirements:
 - 1. CFR:
 - a.) 29 CFR 1910 – OSHA
 - b.) 40 CFR 260 – Hazardous Waste Management System: General
 - c.) 40 CFR 261 – Identification and Listing of Hazardous Waste

- d.) 40 CFR 262 – Standards Applicable to Generators of Hazardous Waste
 - e.) 40 CFR 263 – Standards Applicable to Transporters of Hazardous Waste
 - f.) 40 CFR 264 – Standards for Commissions and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
 - g.) 40 CFR 273 - Universal Waste Regulations
 - h.) 40 CFR 761 – Toxic Substances Control Act (TSCA)
 - i.) 49 CFR 107, 110, 130, 171, 172, 173, 177, 178, 180 – Research and Special Programs Administration, Department of Transportation (Hazardous Materials Regulations)
 - j.) 49 CFR 397 – Federal Motor Carrier Safety Administration, Department of Transportation (Transportation of Hazardous Materials)
2. New Jersey Regulations
- a.) ARRCs Rules, N.J.A.C. 7:26C
 - b.) Remediation Standards, N.J.A.C. 7:26D
 - c.) Hazardous Waste Regulations, N.J.A.C. 7:26G
 - d.) Solid Waste Regulations, N.J.A.C. 7:26
 - e.) Technical Requirements for Site Remediation, N.J.A.C. 7:26E
 - f.) Groundwater Quality Standards, N.J.A.C. 7:9C
 - g.) Surface Water Quality Standards, N.J.A.C. 7:9B
 - h.) Underground Storage Tanks, N.J.A.C. 7:14B
 - i.) Regulations Governing the Certification of Laboratories and Environmental Measurements, N.J.A.C. 7:18
3. NJDEP Guidance Documents
- a.) Alternative Remediation Standards Technical Guidance for Soil and Soil Leachate for the Migration to Ground Water Exposure Pathway, May 2021.
 - b.) Alternative Remediation Standards Technical Guidance for Soil for the Ingestion-Dermal and Inhalation Exposure Pathways, May 2021.
 - c.) Administrative Guidance for the Migration to Ground Water Exposure Pathway Soil Remediation Standards, October 2021.
 - d.) Field Sampling Procedures Manual, August 2005, as updated (2022).
 - e.) Characterization of Concrete and Clean Material Certification, January 2010.
 - f.) Alternative Groundwater Sampling Techniques Guide, July 1994

- g.) Low-Flow Purging and Sampling Guidance, December 2003
 - h.) Linear Construction Technical Guidance, January 2012.
4. USEPA:
- a.) CERCLA, 42 U.S.C s/s 9601 et seq.
 - b.) RCRA, 42 U.S.C. s/s 321 et seq.
- C. Verify that hazardous soil and other hazardous waste analytical results are consistent with applicable regulatory requirements specified herein and classified in accordance with Section 02 24 00. Verify compliance with standards and regulations, including 40 CFR 261, 40 CFR 761, N.J.A.C. 7:26, and RCRA.
- D. Verify that sampling activities and analytical methods are in accordance with applicable regulatory protocols, referenced standards, and regulations specified herein and Section 02 24 00 in addition to CERCLA, RCRA, and NJDEP sampling guidelines and protocols.
- E. Ensure that all employees handling hazardous waste, including subcontractors, are qualified and experienced in the work of sampling, preparing, removing, handling, and disposing of the hazardous waste to be performed under this Contract. All employees shall be properly trained, certified in the pertinent environmental regulations and in personal protection, and other safety procedures. Contractor's foreperson shall have a minimum of three years' experience in successful completion of similar projects. Verify compliance with 29 CFR 1910.
- F. Use a laboratory entity as stipulated in Section 02 24 00.
- G. Contact end user/receiving facility for facility for sampling facility-specific parameters and sampling requirements.
- H. General demolition procedures are specified in Section 02 41 00.
- I. Provide, pursuant to review or direction by the Commission Representative, separate locations where hazardous soil and other hazardous waste shall be stockpiled and stored for sampling and characterization before disposal. All hazardous soil and other hazardous waste shall be protected from precipitation, stormwater runoff, and erosion. Storage location(s) shall be secured with access restricted to authorized personnel only.
- J. All TSD Facilities and transporters which Contractor intends to use to treat and/or dispose and transport hazardous soils and other hazardous waste shall be reviewed by the Commission Representative before any removal under this Contract. Verify compliance with 40 CFR 262-264.
- K. Should any problem arise regarding a TSD Facility selected to accept the hazardous soils and other hazardous wastes that would require the return of hazardous wastes to Contractor or should such TSD Facility have violated any environmental regulation which would result in any regulatory enforcement action, immediately notify the Commission Representative in writing of such situations. Make provisions for the lawful storage of the hazardous soils and other hazardous waste, at no additional expense to the Commission, until an alternate TSD Facility can be located by Contractor and reviewed by the Commission Representative.

1.07 SUBMITTALS FOR REVIEW

- A. General: Submittals shall comply with the General Provisions and the Special Provisions, except as modified herein.
- B. Submit written description of staging, handling, transportation, and disposal procedures (including proposed activities at a TSD Facility), list of tasks, and statement of qualifications for Hazardous Waste Materials Management including names, addresses, and telephone numbers of responsible individuals (all subject to review of the Commission Representative before initiation of Work).
- C. Submit evidence of current valid permits, licenses, and certifications including, at a minimum, the following:
 - 1. Training certificates (current HAZWOPER 40-hour or 8-hour Refresher) of all workers, to be engaged in Work under this section, including the Safety Supervisor/Representative, in accordance with 29 CFR 1910.120(e).
 - 2. Valid off-site transportation and disposal permits and licenses from the waste hauler and TSD Facility, and a copy of the Spill Prevention, Countermeasure, and Control Plan for the Work Site.
 - 3. Name, location, telephone number, and all applicable permits of TSD Facilities.
- D. Submit site-specific Contractor's Construction Safety and Health Plan (CSHP) and SWP documents, as required in Section 01 35 53. Documents shall address requirements of 29 CFR 1910.120 (b) with written verification of approval by a CIH. The Contractor's site-specific CSHP and SWP documents shall include, but not be limited to, the following items:
 - 1. The Contractor's site-specific CSHP and SWP documents shall be read and signed by all personnel.
 - 2. Identify key personnel responsible for Work Site safety, including the name and qualifications of the Contractor's Safety Supervisor/Representative.
 - 3. Address levels of personal protection to be employed during Work, setting forth specific criteria for choices of protective clothing and equipment.
 - 4. Designate Work area exclusion zone(s) and decontamination zone(s) as defined by OSHA. Describe how zone(s) will be marked/barricaded and made known to all persons at this Work Site.
 - 5. Establish Work Site emergency procedures including escape routes, signals for evacuating work parties, emergency communications, and procedures for response to fire and explosions. Describe emergency equipment to be made available at the Work Site, such as portable extinguishers and first aid kit.
 - 6. Identify, provide location of, and list arrangements with the nearest medical facility.
 - 7. Set forth a program for air monitoring in the Work area (exclusion zone). List and describe equipment to be used. Program shall include a description of provisions to monitor and control direct contact and inhalation exposures to construction workers, Commission employees, and the general public.

8. Provide copy of the Air Monitoring Plan and action levels based on air monitoring to upgrade personal protection against airborne contaminants.
 9. Set forth procedures for decontamination of personnel, materials, and equipment.
 10. Submit waste profile approval from receiving facility prior to offsite transport and disposal.
- E. At least 30 days before any construction activities commence, submit Material Handling Plan, Waste Transportation and Off-Site Management Plan, and Pollution Prevention and Spill Contingency Plan to the Commission Representative. The Commission Representative will review, provide Notice to Proceed, or request revision and resubmission of these plans. Do not implement these plans until Notice to Proceed is received from the Commission Representative.
- F. Authorized Quarry/Mine material certificates for LSRP review. No Alternative or Clean fill material, as defined by the "Fill Material Guidance for SRP Sites" Version 4.0 is allowed.

1.08 SUBMITTALS FOR INFORMATION

- A. Within 90 days of completion, provide final closure report and documentation including as a minimum, the following:
1. Photo documentation.
 2. Summary of sampling efforts and results of laboratory analysis for material disposal.
 3. Executed hazardous waste manifests for each load of respective material removed and transported from the Work Site, and manifests for material associated with decontamination.
 4. Executed hazardous waste manifest form signed by a responsible party of the TSD Facility.
 5. Certificate of final disposal (or destruction) for each manifest.
 6. Authorized Quarry/Mine Material and/or Clean fill certificates and weigh tickets from the clean fill source(s).
- B. Provide any other documentation requested for review by the Commission Representative to conform or comply with all applicable laws, codes, ordinances, and regulations.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. 10-mil thick PVC sheeting shall be used as soil and ballast stockpile liner and covers, which shall cover a firm and dry surface. All joints in the PVC sheeting shall overlap a minimum of 12-inches at the ends. Contractor may also use roll offs or gondolas lined with a minimum 10-mil PVC sheeting for the stockpiling of

materials, subject to the review by the Commission Representative. Refer to Section 31 25 00 for further details.

- B. A partial containment berm typically made up of hay bales, silt-fence, or 12-inch by 12-inch timbers shall be utilized around stockpiled soils to direct runoff and minimize erosion.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before construction activities, identify areas of hazardous materials that will be disturbed by construction as described in the Contract Drawings.
- B. Locate, identify, and protect all utilities and monitoring wells within the area of work from damage.
- C. Protect all benchmarks, survey control points, boring locations, monitoring wells, and piezometers from damage or displacement during removal, handling, and disposal activities at the Work Site.
- D. Construct a soil staging area for hazardous materials that may be stored up to 90 days before off-site transportation and disposal as specified herein.

3.02 COORDINATION

- A. Request for waste disposal clearances and permits through the Commission Representative.

3.03 WORK SITE CONDITIONS

- A. Representatives of NJDEP may be at the Work Site. Cooperate with and give such assistance to such representatives.
- B. Contractor's Safety Supervisor/Representative shall be present at the Work Site at all work times.
- C. Display or have available at all times at the Work Site a copy of the accepted CSHP and SWP documents.

3.04 HANDLING, AND STORAGE OF HAZARDOUS MATERIALS

- A. Stockpile hazardous soil and other hazardous materials in a designated storage location and protect from precipitation, erosion, and stormwater runoff using 10-mil thick PVC sheeting and containment berm in accordance with Section 31 25 00. All hazardous soil and other hazardous material must be removed from the soil staging area and delivered to the TSD Facility within 90 days of the generation start date. Do not move any hazardous soil and other hazardous materials from their original Work Site to any other Work area without express written permission from the Commission Representative.
- B. Stockpiles shall be of manageable size and designed to protect the soil from precipitation, runoff, and erosion, as shown in the Contract Drawings. Restrict access to the area to authorized personnel only.

- C. Design storage areas to prevent leakage from the stockpiled materials from entering surrounding surface soils or waters. Line and cover stockpiled areas with 10-mil thick, impervious, PVC sheeting.
- D. Provide appropriate berms, sumps, or ditches around the storage area to prevent surface water runoff from contacting the stockpiles and to prevent infiltrating water from discharging off the stockpile area.
- E. Provide a drainage system to collect accumulated liquids from all stockpiled areas and divert the liquids to an appropriate water collection, storage, and/or treatment system.
- F. Store potentially hazardous soil separately from all other material in accordance with Hazardous Waste Regulations, N.J.A.C. 7:26G.
- G. Collect soil samples from the stockpiles for waste characterization purposes. Proposed analytical parameters and appropriate methods are presented in Section 02 24 00.
- H. All hazardous soil and materials shall be removed from the Work Site following the Commission Representative's receipt and review of sampling, analysis, and characterization.
- I. Confirm all analytical parameters that may be required by TSD Facilities before their acceptance of materials. No extra payment shall be made for additional sampling and analysis for waste characterization purposes.
- J. Stockpiled soil and materials classified as hazardous shall be disposed as hazardous waste in accordance with Article 1.06 herein in addition to 40 CFR 260.
- K. Soil classified as non-hazardous contaminated material in accordance with Section 02 24 00 shall be handled in accordance with Section 02 61 13.19.

3.05 DUST CONTROL AND MONITORING REQUIREMENTS

- A. Ensure that dust generated during all work is controlled in accordance with Federal, State, and local regulations. Implement OSHA requirements for suppression of contaminated dust.
- B. Conduct monitoring of worker exposures in a manner to comply with the monitoring requirements of 29 CFR 1910 and 29 CFR 1926.
- C. If OSHA permissible exposure limits are exceeded, subject to the review of the Commission Representative, either engineering controls shall be implemented by Contractor to reduce the contaminant levels, or PPE shall be worn. If monitoring reveals elevated levels of air-borne contaminants, stop Work until safe working conditions are established.
- D. The Contractor shall implement the Air Monitoring Plan included in the CSHP.

3.06 TRANSPORTATION AND FINAL DISPOSITION

- A. All stockpiled material classified as hazardous (in accordance with Section 02 24 00 and 40 CFR 261) must be transported off-site to a permitted TSD Facility in accordance with 40 CFR 264 and 40 CFR 761 within 90 days.

- B. Applicable USDOT and State of New Jersey hazardous materials transporter regulations referenced herein shall be followed during the transportation and handling of all hazardous material.
- C. Do not remove any excavated materials from the Work Site unless authorized by the Commission or its agent. On the day of off-site shipment, the Commission or its agent shall sign the hazardous waste manifest and retain one copy.
- D. Label containers used to transport hazardous material removed from the Work Site "HAZARDOUS WASTE".
- E. Obtain the appropriate RCRA hazardous waste generator number from the Commission Representative to be provided on the waste manifest.
- F. Upon delivery of the waste to the TSD Facility, the Facility representative shall sign and date the manifest. A copy of this manifest shall be sent to the Commission Representative.
- G. Provide copies of all paperwork (shipping documents) that accompany a waste shipment, including a description of the material and the on-site source, to the Commission Representative within two days of the shipment.
- H. Provide final weight tickets and waste/shipping documents for hazardous waste from the receiving facility and transporter within seven days of shipment from the Work Site.
- I. The Commission Representative shall receive a copy of the manifest signed and dated by the operator of the TSD Facility within 45 days of the date the hazardous material was shipped from the Work Site.
- J. Submit executed waste manifests and final Certificates of Destruction or Disposal for each load of hazardous material removed from the Work Site.

3.07 CLEANING

- A. Remove all waste materials and restore all temporary storage and stockpile areas and corridors.
- B. At the completion of the Work, temporary storage and stockpile areas shall have a neat appearance and shall be graded to drain to accepted drainages to prevent erosion. Perform grading in accordance with Section 31 23 50.

PART 4 - MEASUREMENT AND PAYMENT

4.01 GENERAL

- A. All costs associated with the work of this Section associated with the Project as specified herein and as shown on the Contract Drawings shall be included in the Unit Price for Item No. 2.3, "Staging, Handling, Transportation, and Disposal of Hazardous Materials (02 80 00.13)."
- B. The Unit Price for each Item shall also include the cost of incidental and necessary work to complete the work of this Section for that Item as specified and shown on the Contract Drawings.

4.02 MEASUREMENT

A. No specific measurement will be made for the work of this Section as specified herein and as shown on the Contract Drawings.

4.03 PAYMENT

A. Payment for the work of this Section will be included in the Lump Sum Price under Payment Item No. 2.3, "Staging, Handling, Transportation, and Disposal of Hazardous Materials (02 81 00.13)."

4.04 PAYMENT ITEMS

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>
2.3	Staging, Handling, Transportation, and Disposal of Hazardous Materials (02 81 00.13)	Ton

REVISION HISTORY

Revision No.	Date	Summary
0	OCT 2022	Original version with signed and sealed documents
2	MAY 2023	Editorial corrections throughout. Change to the submittal identified in Paragraph 1.08A.6.

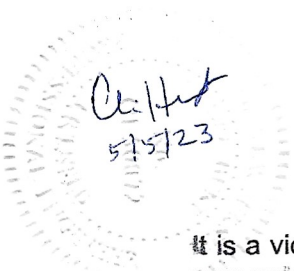
END OF SECTION

Signed and Sealed for the following Specification Sections:

DIVISION 02 – EXISTING CONDITIONS

02 81 00.13 Excavation, Handling, Transportation, and Disposal of Contaminated Materials

ALTERED BY: Michael Cairl

A circular professional engineer seal is located in the lower-left quadrant of the page. The seal contains a signature, "Cairl", and the date "5/15/23".

It is a violation of the Professional License Law for any person to alter these documents in any way unless that person is acting under the direction of a licensed professional. The licensed professional shall affix to these documents the seal and the notation "Altered By," followed by the authorized signature and the date of the alteration.

General Engineering Consultant: The Gateway Trans-Hudson Partnership

77. RISKS ASSUMED BY THE CONTRACTOR

The Contractor assumes the following distinct and several risks, whether they arise from acts or omissions (whether negligent or not) of the Contractor, the Authority, the Commission, National Railroad Passenger Corporation (“Amtrak”), the State of New Jersey, New Jersey Transit Corporation (“NJ TRANSIT”), or of third persons (including the following entities with utility lines in the area: Public Service Electric and Gas Company, Veolia Water New Jersey, Inc., Cablevision Services Corporation, a unit of Altice USA, North Bergen Municipal Utilities Authority, North Hudson Sewerage Authority, or Verizon New Jersey, Inc., referred to collectively herein as “Utilities”), or from any other cause, and whether such risks are within or beyond the control of the Contractor, excepting only risks which arise solely from affirmative acts done by the Authority or the Commission subsequent to the opening of Bids on this Contract with actual and willful intent to cause the loss, damage and injuries described in subparagraphs A through C below:

- (A) The risk of loss or damage to the permanent construction prior to the rendition of the Certificate of Final Completion (other than loss or damage to the portions of the permanent construction with respect to which Certificates of Partial Completion have been issued), and the Contractor shall forthwith repair, replace and make good any such loss or damage to the permanent construction without cost to the Commission.
- (B) The risk of claims, fines or penalties, just or unjust, made by third persons or assessed by courts or governmental agencies or entities against the Contractor, the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT, or the Utilities on account of injuries (including wrongful death), loss, damage or liability of any kind whatsoever arising or alleged to arise out of or in connection with the performance of the Work (whether or not actually caused by or resulting from the performance of the Work) or out of or in connection with the Contractor's operations or presence at or in the vicinity of the construction site premises, including claims against the Contractor, the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT, or the Utilities for the payment of workers' compensation, whether such claims, fines or penalties are made or assessed and whether such injuries, damage, loss and liability are sustained at any time both before and after the rendition of the Certificate of Final Completion;
- (C) The risk of loss or damage to any property of the Contractor, and of claims made against the Contractor, the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT, or the Utilities for loss or damage to any property of subcontractors, materialmen, workmen and others performing the Work, occurring at any time prior to completion of removal of such property from the construction site premises or the vicinity thereof.

The Contractor shall indemnify the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT, and the Utilities against all claims described in subparagraphs B and C above and for all expense incurred by it in the defense, settlement, or satisfaction thereof, including expenses of attorneys, except where indemnity would be precluded by applicable law. If so directed, the Contractor shall defend against any claim described in subparagraphs B and C above, in which event he shall not without obtaining express advance permission from the General Counsel of the Authority and the Commission raise any defense involving in any way jurisdiction of the tribunal, immunity of the Authority and the Commission, governmental nature of the Authority and the Commission or the provisions of any statutes respecting suits against the Authority and the Commission, such defense to be at the Contractor's cost.

To the fullest extent permitted by law, the Contractor shall release and shall indemnify, and hold harmless the State of New Jersey, NJ TRANSIT, Amtrak, the Utilities, as well as their respective officers, directors, employees, agents, and assigns, from and against any and all losses and liabilities, penalties, fines, demands, claims, causes of actions, suits, and costs (attorneys' fees and costs of defense) which the State of New Jersey, NJ TRANSIT, Amtrak or the Utilities may hereafter incur, be responsible for, or pay

as a result of either (i) injury, death, or disease to any person or (ii) damage to or loss of any property owned by NJ TRANSIT, Amtrak or the Utilities directly or indirectly arising out of the actions of the Contractor, State of New Jersey, NJ TRANSIT, Amtrak, the Utilities shall have a direct right of action against the Contractor to enforce the foregoing indemnity.

The provisions of this Section 77 shall also be for the benefit of the Commissioners, officers, agents and employees of the Authority, the Commission, Amtrak, NJ TRANSIT and the Utilities so that they shall have all the rights which they would have under this Section 77 if they were named at each place above at which the Authority, the Commission Amtrak, NJ TRANSIT and the Utilities are named, including a direct right of action against the Contractor to enforce the foregoing indemnity.

Neither the issuance of a Certificate of Completion nor the making of Final Payment shall release the Contractor from his obligations under this numbered clause. Moreover, neither the enumeration in this numbered clause nor the enumeration elsewhere in this Contract of particular risks assumed by the Contractor or of particular claims for which he is responsible shall be deemed (a) to limit the effect of the provisions of this numbered clause or of any other clause of this Contract relating to such risks or claims, (b) to imply that he assumes or is responsible for risks or claims only of the type enumerated in this numbered clause or in any other clause of this Contract, or (c) to limit the risks which he would assume or the claims for which he would be responsible in the absence of such enumerations.

78. NO THIRD PARTY RIGHTS

Nothing contained in this Contract is intended for the benefit of third persons, except to the extent that the Contract specifically provides otherwise by use of the words "benefit" or "direct right of action". Notwithstanding, Amtrak, the State of New Jersey, and NJ TRANSIT are considered third party beneficiaries of this Contract.

79. INSURANCE PROCURED BY CONTRACTOR

The Contractor, and all subcontractors, shall maintain and pay the premiums on the policy or policies of insurance for coverage(s) as hereinafter described, which shall cover their operations hereunder, shall be effective throughout the effective period of this Contract, and shall afford coverage(s) in not less than the amounts set forth below:

- (A) Builder's Risk Insurance on an "all risk" basis including, but not limited to, loss or damage by fire, collapse, lightning, windstorm, flood, earthquake, hail, terrorism, explosion, underground property damage, riot vandalism, malicious mischief, civil commotion, vehicle impact, smoke, off premises services interruption, debris removal, valuable papers, pollutant cleanup and removal, professional fees, extra / expediting expenses and such other risks), covering the Work to be effectuated by the Contractor and the subcontractors, with coverage limits not less than the full replacement cost of the Work (subject to a \$25 million annual aggregate for flood and earthquake damage and a limit of \$10 million per occurrence for damage to off-site storage and property in-transit. The policy will be on a minimum of a LEG2/96 basis. Such insurance shall name the Authority, Commission, Amtrak, the State of New Jersey, NJ TRANSIT and the Utilities as loss payee, as their respective interests may appear.
- (B) Commercial General Liability and Umbrella / Excess Liability insurance written on a form as broad as ISO Form GC 20 10 10 01 for ongoing operations work or equivalent and ISO Form CG 20 37 10 01 for completed operations work, including, but not limited to, bodily injury, third party property damage, contractual liability and products and completed operations for a period of not less than ten (10) years after Substantial Completion:

- (1) Limit not less than \$50,000,000 per occurrence and in the aggregate for bodily injury and property damage
- (2) Coverage for terrorism, explosion, collapse and underground property damage, independent contractors' coverage, blanket contractual liability and broad form property damage coverage, and covering bodily injury, including death, and property damage liability. Said policy will also contain no exclusions with respect to tunnelling.
- (3) Cross liability and severability of interests

There shall be no coverage exclusions (CG 24 17 10 01, or equivalent) for property, containing or adjacent to railroad facilities and the policies shall be endorsed evidencing the contractual exclusion related to construction activity, or any access whatsoever, within fifty (50) feet of the railroad has been deleted. In addition, all hazards to be covered shall include the so-called "XCU" coverage for explosion, collapse, and damage.

(C) Workers' Compensation and Employer's Liability insurance fulfilling the Contractor's obligations under the applicable State Workers' Compensation Law. Coverage for Employer's Liability will have a limit not less than \$1,000,000. Coverage under this policy may, as appropriate, include one or more of the following endorsements:

- (1) Longshore and Harbor Workers' Compensation Act Coverage Endorsement (Applies when performing work on or around navigable waters)
- (2) Maritime Coverage Endorsement (Applies to masters or members of the crews of vessels, if vessels are used)
- (3) Federal Employer's Liability Act Coverage Endorsement (May apply to railroad related Work)

Determination in any instances as to the appropriateness of the included coverage described in C.1, 2 and 3 above will be made based upon information to be provided by the Contractor relating to the mode of performance of Work to be done under the Contract.

(D) Contractors' Pollution Liability Insurance covering bodily injury liability, property damage or environmental damage caused by pollution conditions on land, in air and on water.

A minimum limit of \$10,000,000 per occurrence and in the aggregate. Coverage shall be maintained for a period of six (6) years after completion of the Work. Should the policy be on a claims made basis, a six (6) year reporting / discovery period will be procured.

The policy will include the transport of any hazardous waste generated at the site and shall require hazardous waste haulers insurance in an amount of not less than \$5,000,000 per occurrence or statutory minimum, whichever is greater.

(E) Professional Liability Insurance covering errors & omissions with respect to any design work.

A minimum limit of \$10,000,000 per claim and in the annual aggregate with coverage continuing for ten (10) years after the completion of the Work. If on a claims made basis, a ten (10) year extended reporting period will be purchased.

(F) Railroad Protective Liability Insurance covering liability arising out of work performed within fifty (50) feet vertically or horizontally of railroad tracks.

For work carried out within fifty (50) feet of any NJ TRANSIT or Amtrak rail a limit of not less than **\$2,000,000** for damages to or destruction of property, including the loss of use thereof, in any one occurrence, and not less than **\$6,000,000** in the aggregate. (Reference: "Standard

Provisions for General Liability Policies” as contained in U.S. Department of Transportation, Federal Highway Administration, Federal-Aid Highway Program Manual Volume 6, Chapter 6, Section 2, Sub-Section 2, Attachment 1.) The policy will be in the name of NJ TRANSIT and Amtrak. The policy will be endorsed with ISO (Insurance Services) Office Endorsement: GL 00 30 03 83.

For work carried out within fifty (50) feet of any Conrail rail a limit not less than \$5,000,000 per occurrence, combined single limit for bodily injury and/or property damage, for damage to or destruction of property, including the loss of use thereof. Such insurance shall also contain an aggregate of not less than \$10,000,000 for damages arising out of more than one occurrence. Conrail shall be the only Named Insured on the policy. The policy shall be endorsed to include broad form coverage for property damage “Physical Damage to Property Definition Amendment”, Sudden and Accidental Pollution and Evacuation Expenses. The policy will be in the name of Consolidated Rail Corporation.

(G) Commercial Automobile Liability Insurance: covering “any” vehicles on the broadest commercially available form and including non-owned automobile liability:

1.) Combined single limit for bodily injury and property damage liability - \$3 million per each accident.

(H) Contractor’s Equipment covering all risks property damage to the Contractor’s tools and equipment on a limit acceptable to protect the Contractor for its loss.

In addition, the liability policy(ies), with the exception of Professional Liability, Railroad Protective Liability and Contractor’s Equipment shall name the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT and the Utilities, their related entities, their commissioners, directors, officers, partners, employees and agents (as well as Consolidated Rail Corporation) as additional insureds on forms CG 2026 11/85, CG 2010 11/85 or CG 2010 10/93 (but only if modified to include both ongoing and completed operations). The liability policy(ies) and the certificate(s) of insurance, with the exception of Professional Liability and Railroad Protective Liability shall contain separation of insured conditions and severability of interests clauses for all policies. These insurance requirements shall be in effect for the duration of the Contract and include any warrantee/guarantee period and any maintenance period. An act or omission of one of the insureds shall not reduce or void coverage to the other insureds. Furthermore, the Contractor's insurance shall be primary insurance as respects to the above additional insureds. Any insurance or self-insurance maintained by the above additional insureds shall not contribute to any loss or claim.

All policies, with the exception of Professional Liability and Railroad Protective Liability shall provide for a waiver of subrogation in favor of the Authority, the Commission, Amtrak, the State of New Jersey, NJ TRANSIT and the Utilities, their related entities, their commissioners, directors, officers, partners, employees and agents, as well as Consolidated Rail Corporation.

The certificate(s) of insurance and liability policy(ies) must contain the following endorsement for the above liability coverages:

"The Contractor, its subcontractors and its insurers shall not, without obtaining the express advance written permission from the General Counsel of the Authority and the Commission, raise any defense involving in any way the jurisdiction of any court, tribunal, agency, special district, commission or other authority exercising judicial or regulatory functions over the person of the Port Authority and the Commission, the immunity of the Authority and the Commission, its Commissioners, Directors, officers, agents or employees, their affiliates, successors and/or assigns, the governmental nature of the Authority and the Commission or the provision of any statutes respecting suits against the Authority and the Commission. The Commission is an intended third-party beneficiary of the

agreement between the Contractor, and each of its respective subcontractors and insurers, with the direct right to enforce the agreement with respect to this provision."

All policies shall have a deductible or self-insured retention no greater than \$1 million, unless otherwise approved by the Commission, acting reasonably.

The Contractor shall deliver certified copies of the policy(ies) described above or certificate(s) of insurance evidencing the existence thereof to the Engineer at the location where the Work will be performed, within ten (10) days after the acceptance of his Bid. Such policy(ies) or certificate(s) shall state the Contract number and shall contain a valid provision or endorsement that the policy(ies) may not be canceled, terminated, changed or modified without giving thirty (30) days written advance notice thereof to the Commission, the Authority, Amtrak, the State of New Jersey, NJ TRANSIT, Consolidated Rail Corporation and the Utilities, all of which shall also be provided with such policy(ies) and certificates of insurance.

Certified copies of all renewal policies or certificates evidencing their existence shall be delivered to the Engineer at the location where the Work will be performed at least five (5) days prior to the expiration date of each expiring policy. If at any time any of the certificates or policies shall be or become unsatisfactory to the Commission as to form or substance, or if the carrier issuing any such certificate or policy shall be or become unsatisfactory to the Commission, the Contractor shall promptly obtain a new and satisfactory certificate and policy. Upon request of the Authority's General Manager, Risk Financing, or the Commission's Insurance Advisor or any other appropriate Commission staff member as designated by the Commission, the Contractor shall furnish the Authority and the Commission with a certified copy of each policy stated above.

All insurance will be placed with insurance companies authorized in the States of New York and New Jersey with an A.M. Best's rating of A- VIII or higher, or a Standard & Poor's A- or higher or other acceptable rating as approved by the Authority.

The Contractor is responsible for requiring and verifying that all subcontractors working on the construction site maintain appropriate types and levels of insurance coverage.

The requirements for insurance procured by the Contractor shall not in any way be construed as a limitation on the nature or extent of the contractual obligations assumed by the Contractor under this Contract. The insurance requirements are not a representation by the Authority or the Commission as to the adequacy of the insurance to protect the Contractor against the obligations imposed on him by law or by this or any other contract.

Prior to commencing work, the Contractor shall be required to execute Amtrak's Temporary Permit to Enter Upon Property and NJ TRANSIT's Temporary Access Permit, copies of which are attached hereto and incorporated herein.

Upon request, the Contractor shall provide the Utilities with assurance that it assumes the risks outlined in Section 77 hereof, that it carries the insurance described in Section 79 hereof and that the Utilities are additional insureds under the insurance policies referenced in Section 79 hereof.