RESOLUTION NO. 22093

Background

The Illinois State Toll Highway Authority ("Tollway") advertised for sealed bids on Contract I-20-4517 for Roadway & Bridge Reconstruction on the Tri-State Tollway (I-294) between Mile Post 17.5 (95th Street) and Mile Post 19.7 (Plaza 36). The lowest responsive and responsible bidder on Contract No. I-20-4517 is F.H. Paschen, S.N. Nielsen & Associates, LLC in the amount of $124,441,582.77.

Resolution

Contract No. I-20-4517 is awarded to F.H. Paschen, S.N. Nielsen & Associates, LLC in the amount of $124,441,582.77, subject to all required approvals, the contractor satisfying applicable DBE, financial and all other contract award requirements, and execution of all contract documents by the bidder and the Tollway.

The Chairman and Chief Executive Officer of the Tollway is authorized to execute the aforementioned Contract, subject to the approval of the General Counsel and the Chief Financial Officer, and the Chief Financial Officer is authorized to issue warrants in payment thereof.

If the bidder fails to satisfy the contract award requirements, the Executive Director is authorized to approve an award to the next lowest responsible bidder, in accordance with the applicable contract award requirements, and execution of all contract documents by the bidder and the Tollway. The Chairman and Chief Executive Officer of the Tollway is authorized to execute any contract awarded to the next lowest bidder, subject to the approval of the General Counsel and the Chief Financial Officer, and the Chief Financial Officer is authorized to issue warrants in payment thereof.

Approved by: [redacted]

Chairman

RETURN WITH BID

CONTRACT I-20-4517

ROADWAY AND BRIDGE RECONSTRUCTION TRI-STATE TOLLWAY (I-294)

MILE POST 17.5 (95TH STREET) TO MILE POST 19.7 (PLAZA 36)

Illinois Tollway
2700 Ogden Avenue Downers Grove, IL 60515

VOLUME I

REQUIRED DOCUMENTS

ADDENDUM NO. 2
TO
CONTRACT REQUIREMENTS
FOR CONTRACT I-20-4517
ILLINOIS STATE TOLL HIGHWAY AUTHORITY

Date: 7/28/2020

For which proposals will be received by the Illinois State Toll Highway Authority at its offices, 2700 Ogden Avenue, Downers Grove, Illinois 60515 until 10:30:00 A.M. local time, **August 7, 2020.**

NOTICE OF REVISION TO CONTRACT

NOTES:

1. The following revised Special Provision pages are included in the Contract with this Addendum: J-viiiRR, J-113R, J-713R through J-715R, J-717R, J-718R.

2. The following revised Contract Drawings are included in this Addendum:
   Volume 1 – Drawings 49, 171, 199, 200, 202, 204, 206, 207, 209, 213

3. A new reference document has been posted to the Online Plan Room: Geotechnical Report - Tri-State Tollway I-294 (Phase II) Project - Light Pole and Overhead Sign Structures - I-294 Mile Post 17.6 to Mile Post 19.2 - Approximate Station 932+04.00 to 1018+48.00 - ISTHA Contract Number I-17-4296-C01 - Cook County, Illinois – July 23, 2020.

CHANGES TO THE CONTRACT REQUIREMENTS

CHANGES TO THE CONTRACT SPECIAL PROVISIONS

Change #1 Contract Requirements, Volumes II and III, replace page J-viiiR with page J-viiiRR. This replacement contains the following revision (attached):

1.1. Updated Table of Contents to show revised page numbers for revised special provisions as part of this addendum.

Change #2 Contract Requirements, Volume II, replace page J-113 with page J-113R. This replacement contains the following revision (attached):

2.1. Revised revision date of Geotechnical Report for Light Poles and Sign Structures to July 23, 2020.

Change #3 Contract Requirements, Volume II, replace pages J-713 through J-715 with pages J-713R through J-715R. These replacements contain the following revision (attached):

3.1. Revised special provision for Install Conduit to latest Central Tri-State Tollway version. Locations of revisions are shown with a vertical line. Note that page J-715R is included due to a change in page break locations.

Change #4 Contract Requirements, Volume II, replace pages J-717 and J-718 with pages J-717R and J-718R. These replacements contain the following revision (attached):

4.1. Revised special provision for Duct Package to latest Central Tri-State Tollway version. Locations of revisions are shown with a vertical line.

CHANGES TO THE CONTRACT DRAWINGS

Change #5 Contract Plans, Volume 1, Drawing 49. Proposed Typical Sections. This drawing contains the following revision (attached):

5.1. Revised shoulder slope on moment slab.

Change #6 Contract Plans, Volume 1, Drawing 171. Roadway Plans. This drawing contains the following revision (attached):

6.1. Corrected shoulder width callout.

Change #7 Contract Plans, Volume 1, Drawings 199, 200, 202, 204, 206, 207, 209, 213. Roadway Profile and Superelevation. These drawings contain the following revisions (attached):

7.1. Revised shoulder cross-slopes.

7.2. Added callouts indicating range of cross slopes for areas with variable cross slope.

END OF ADDENDUM CHANGES

Environmental Investigation - Tri-State Tollway I-294 (Phase II) Project - I-294 M.P. 17.8 to M.P. 20.6 - Archer Ave. (IL-171) Station 120+34 to Station 215+92 - ISTHA Contract Number I-17-4296 - Cook County, Illinois - November 6, 2019

Roadway Geotechnical Report - Tri-State Tollway I-294 (Phase II) Project - I-294 Main Line - ISTHA Contract Number I-17-4296 - Cook County, Illinois – January 20, 2020

Geotechnical Report - Detention Basins for I-294 Reconstruction - Contract I-17-4296 - Cook County, Illinois – March 24, 2020

Technical Memo – I-294, 95th Street and LaGrange Road – Proposed Drainage Plan for Ponds PR-17A and PR-20H – ISTHA Contract I-17-4296 – May 21, 2019

Geotechnical Report - Tri-State Tollway I-294 (Phase II) Project - Light Pole and Overhead Sign Structures - I-294 Mile Post 17.6 to Mile Post 19.2 - Approximate Station 932+04.00 to 1018+48.00 - ISTHA Contract Number I-17-4296-C01 - Cook County, Illinois – July 23, 2020

Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Proposed Noise Abatement Walls – Contract C01 (I-20-4517) – ISTHA Contract Number I-17-4296 – Cook County, Illinois – February 28, 2020

Structure Geotechnical Report – Noise Wall TS17.60N,SB(R) – Contract I-17-4311, Task 29 – Cook County, Illinois – April 8, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall TS18.20R,NB – ISTHA Contract Number I-17-4296-4517 (C01) – Cook County, Illinois – April 8, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall TS18.40R,SB – ISTHA Contract Number I-17-4296-4517 (C01) – Cook County, Illinois – April 16, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall TS18.80R,NB – ISTHA Contract Number I-17-4296-4517 (C01) – Cook County, Illinois – April 30, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall TS18.80R,SB – ISTHA Contract Number I-17-4296-4517 (C01) – Cook County, Illinois – May 6, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall / Moment Slab Wall TS19.10R,NB – ISTHA Contract Number I-17-4296-4517 (C01) – Cook County, Illinois – May 20, 2020

Structure Geotechnical Report – Tri-State Tollway I-294 (Phase II) Project – Retaining Wall TS19.52R,SB – ISTHA Contract Number I-17-4296 – Contract 01 (I-20-4517) – Cook County, Illinois – February 20, 2020

INSTALL FURNISHED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, SDR 11, (CTS V1.2)

Description: This work shall consist of installing and testing coilable non-metallic conduit (CNC), fittings, and accessories, as part of a raceway bored, plowed, or trenched, and pulled in place.

Material. The conduit shall be a solid-wall high density polyethylene (HDPE) duct intended for underground use and can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties or performance.

The conduit shall meet the requirements of the following standards:

- American Society for Testing and Materials (ASTM) D 3350, minimum cell class of PE334480 C or E in conformance with Standards D3350 and F2160 of the American Society for Testing and Materials (ASTM).
- National Electrical Manufacturers Association (NEMA) Standard TC 7 (2013) for Smooth Wall Coilable Electrical Polyethylene Conduit

The coilable non-metallic SDR-11 conduit properties shall conform to the nominal dimensions shown in the table below:

Nom. Duct Diameter (in)	Nom. Outside Diameter (in)	Nom. Inside Diameter (in)	Min. Wall Thickness (in)
1	1.315	1.055	0.120
1 ¼	1.660	1.338	0.151
1 ½	1.900	1.533	0.173
2	2.375	1.917	0.216
2 ½	2.875	2.322	0.261
3	3.500	2.825	0.318
4	4.500	3.633	0.409
6	6.625	5.348	0.602

CONSTRUCTION REQUIREMENTS

(a) The installation shall be in accordance with Section 810 of the Illinois Tollway Supplemental Specifications.

(b) The Contractor shall be responsible for coordinating with the Engineer and the procurement contractor to schedule a pickup of the CNC. The schedule shall be submitted to the Engineer a minimum of 14 days prior to the scheduled pickup date.

(c) The CNC(s) will be picked up within a 10-mile radius of the I-55 @ I-294 interchange and stored at the Contractor facility until time for installation. The Contractor shall provide all equipment, lifting cables and hardware needed to off-load and set the pole.

The Contractor shall closely coordinate the work prescribed under this special provision with the Engineer. This includes, but is not limited to, the following:

Conduit Installation

In Duct Package

- The conduit shall be installed in minimum lengths of 1000 feet. All splices shall be fusion spliced. Conduit bends shall be made manually to prevent conduit damage or possible reduction to the inside diameter of the conduit.

- All underground raceways shall have a minimum depth of 33 inches below finished grade unless otherwise indicated on the plans. All raceways installed beneath pavement shall have a minimum depth of 45 inches below the top of pavement to avoid conflicts with the underdrain system unless otherwise indicated on the plans or directed by the Engineer.

PLOWED

- Plowing shall be done with equipment capable of feeding the conduit through the plow. Equipment which pulls the conduit behind a bullet-nose plow will not be allowed except by written approval of the Engineer. The plow shall be capable of plowing a cavity and placing the conduit to the specified depth in a single operation without kinking or otherwise damaging the conduit. The conduit shall be round and free of kinks when fed into the plow and placed in the ground. Pulling of the conduit within the plowed cavity will not be allowed.

- Where another circuit is plowed in parallel to the first, the distance between the two shall not be less than 1 foot nor more than 2 feet.

- Conduit shall be installed with the use of an auger. Conduit in the subgrade of the proposed improvement shall extend a minimum of 2 feet beyond the edge of proposed pavement, stabilized shoulder, or paved median.

- Areas disturbed by the augering operation shall be restored to their original condition as directed by the Engineer.

GENERAL

- Coilable non-metallic conduit larger than 3 inches shall be machine straightened to remove the longitudinal curvature and ovality caused by coiling the conduit onto reels. The conduit straightening process shall not deform the cross-section of the conduit. Straight sticks of non-metallic conduit may be provided in lieu of Coilable as long as the straight sticks meet the specifications here within and coupled following the Illinois Tollway standard details.

- Conduit test procedures and test results shall meet the requirements of NEMA Standard No. TC 7 and ASTM F2160 Sections 4 and 5. Certified copies of the test report shall be submitted to the Engineer prior to the installation of the conduit.

- Fiber optic conduit runs shall not exceed 90-degrees of total deflection.

- All conduits shall be cleaned by wire brush mandrel to remove all dirt and other foreign materials and install compression plugs on both end of the conduit until conductors are installed. The Contractor shall record the results on the Conduit Test form attached to this special provision and provide it to the Engineer for review and acceptance. After the form is signed by both the Contractor, the Engineer, and the Corridor Construction Manager (If applicable) it should be uploaded into the WBPM system.

- The Contractor shall proof all conduits with a solid aluminum mandrel, as per the Table below. Any failed conduits shall be repaired and tested again. The Contractor shall record the results on the Conduit Test form attached to this special provision and provide it to the Engineer for review and acceptance. After the form is signed by both the Contractor and the Engineer, it should be uploaded into the WBPM system.

Conduit Size (in)	Mandrel Diameter (in)	Minimum Mandrel Length (in)	Maximum Mandrel Length (in)
1	0.60	1.0	4
1 ¼	0.86	1.5	4
1 ½	1.12	1.8	4
2	1.62	2.4	6
3	2.5	3.25	8
4	3.5	4.25	8
6	5.5	6.25	10

- The Contractor shall perform the conduit proofing in the presence of the Engineer. The Contractor shall apply a pressure of 100 – 110 psi to the conduit, close the air output valve and stop compressor, and measure air pressure loss. The maximum allowable air pressure loss within 2 minutes of pressurization is 20 psi. The Contractor shall record the results on the Conduit Test form attached to this special provision and provide it to the Engineer for review and acceptance. After the form is signed by both the Contractor and the Engineer, it should be uploaded into the WBPM system.
- The contractor shall repeat the above testing procedures only on conduits encased in the duct package (**DUCT PACKAGE, CONDUIT ENCASED, CLSM)** and after the conduit system has been completed. The Contractor shall record the results on the Conduit Test form attached to this special provision and provide it to the Engineer for review and acceptance. After the form is signed by both the Contractor and the Engineer, it should be uploaded into the WBPM system.
- Underground cable marking tape shall be installed in accordance with Article 810.04 (a) of the Standard Specifications.

Method of Measurement. This work will be measured for payment in feet installed and accepted.

Basis of Payment. This work will be paid for at the contract unit price per foot for INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, SDR 11 of the size specified.

Pay Item Number	Designation	Unit of Measure
JT810502	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 1 1/2" DIA.	FOOT
JT810504	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 2" DIA.	FOOT
JT810506	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 3" DIA.	FOOT
JT810508	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 4” DIA. INSTALL	FOOT
JT810510	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 6" DIA.	FOOT

DUCT PACKAGE, CONDUIT ENCASED, CLSM (CTS V 1.5)

Description. This work shall consist of furnishing and installing all material and labor necessary to arrange conduits in a duct package and then cover with Controlled-Low Strength Material (CLSM) to protect the conduits as shown in the Plans. This work shall not include the installation of the conduit.

Materials. Materials shall be according to the following section of the Standard Specifications:

	Item	Article/Section
a)	Controlled Low-Strength Material (CLSM)	1019
b)	Fine Aggregate	1003.04

CONSTRUCTION REQUIREMENTS

Multiple conduit runs grouped together in a duct package as shown in the Plans shall be encased in CLSM and shall be supported on interlocking plastic spacers designed for the purpose, spaced along the length of the run as recommended by the manufacturer. Spacing between raceways within a common duct package shall be a minimum of 2 in. The interlocking spacers shall be used at a maximum interval of 5 ft for 30 feet prior and after a joint only. The spacers shall be installed on top of 3 in. of fine aggregate backfill covering the bottom of the duct package trench. CLSM cover overall shall be a minimum of 3 in. all around the conduits to be encased.

During CLSM placement there shall be no voids, the spacers shall be undisturbed, and the conduit joints shall stay secure and unbroken. CLSM shall be deflected during placement to minimize the possible damage to or movement of the conduits.

All conduit joints and supports shall be inspected and approved by the Engineer before the CLSM is poured. Backfilling around the duct package shall use Fine Aggregate.

Method of Measurement. This work will be measured for payment in feet in place. Measurements will be made in straight lines along the Centerline of the duct package between ends and changes in direction. Changes in direction will assume perfect straight line runs, ignoring actual raceway sweeps.

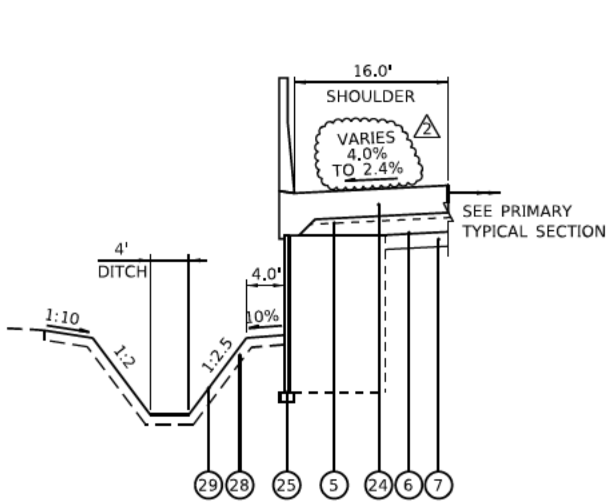
Basis of Payment. This work will be paid for at the contract unit price per foot for DUCT PACKAGE, CONDUIT ENCASED of the diameter and number of raceways.

Interlocking spacers will not be paid for separately but shall be included in the unit price of the duct package.

Trenching and backfilling for the duct package shall not be paid for separately but shall be included in the unit price of the duct package

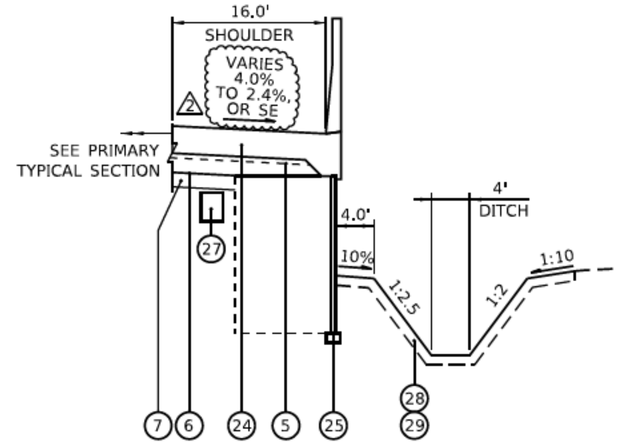
Conduits will be paid separately.

Pay Item Number	Designation	Unit of Measure
JT810901	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 1 1/2” DIA., 24 COUNT	FOOT
JT810911	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 4” DIA., 2 COUNT	FOOT



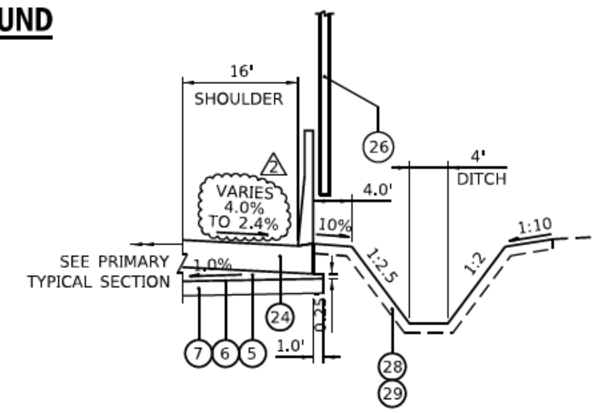
I-294 - PROPOSED SOUTHBOUND

STA 976+10.11 TO 986+21.73
STA 995+41.73 TO 1008+70.00



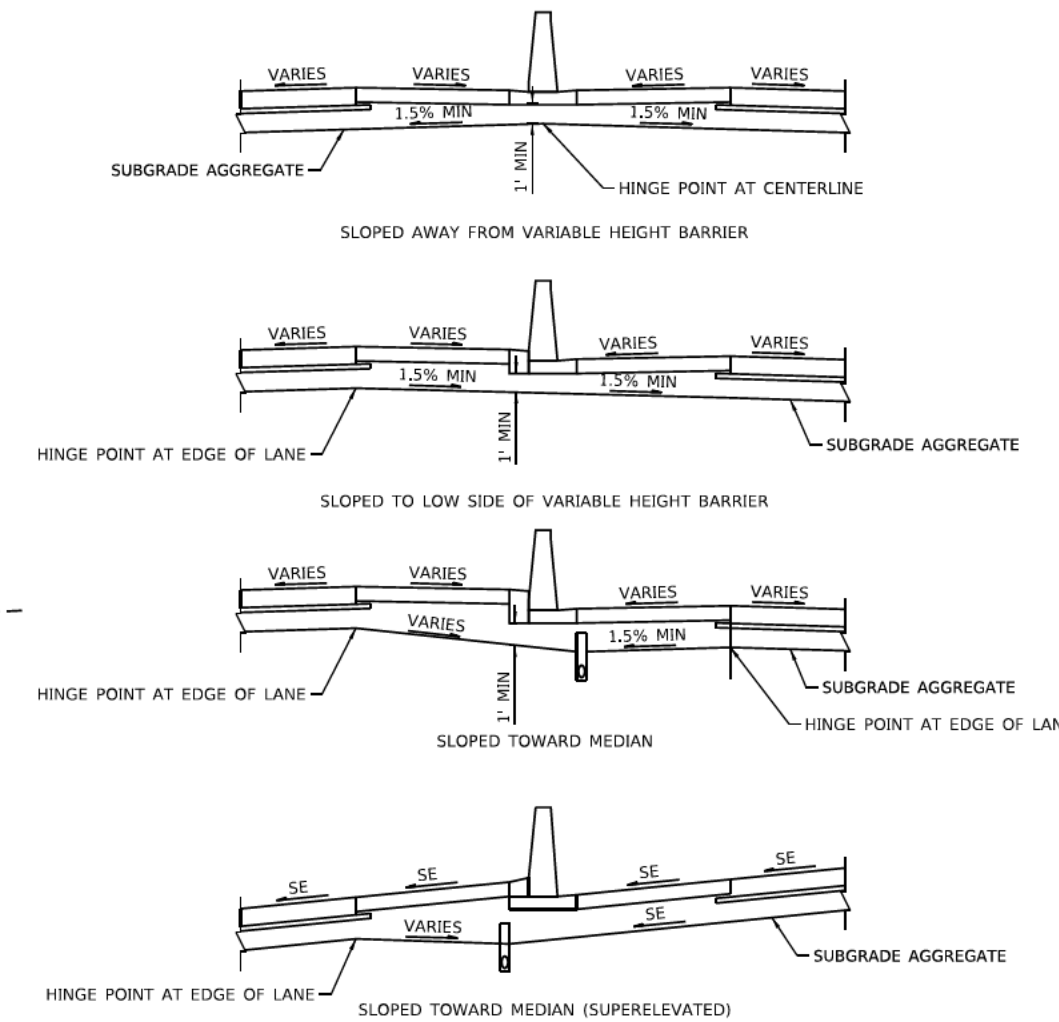
I-294 - PROPOSED NORTHBOUND

STA 964+75.00 TO 974+69.92
STA 994+94.80 TO 1010+24.51



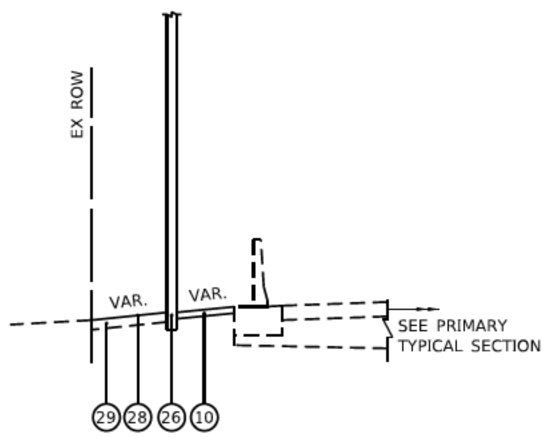
I-294 - PROPOSED NORTHBOUND

STA 939+85.17 TO 944+06.63



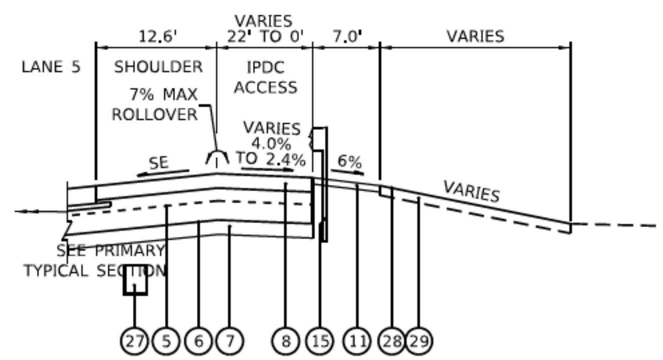
MEDIAN SUBGRADE GRADING

SEE ROADWAY CROSS SECTIONS FOR APPLICABLE LOCATIONS



I-294 - PROPOSED SOUTHBOUND

STA 1015+25.00 TO 1041+00.00



I-294 - PROPOSED NORTHBOUND

STA 954+85.00 TO 964+75.00

TYPICAL SECTION DETAILS

NOTES:
1. SUBGRADE SLOPE SHALL MATCH PAVEMENT.
2. SLOPE SUBGRADE TOWARD EXISTING AND PROPOSED UNDERDRAINS.
3. TYPICAL SECTION DETAILS SHOWN ON THIS PAGE, SEE ROADWAY TYPICALS FOR ADJACENT PAVEMENT.
4. SURFACE SLOPES SHOWN ARE FOR WORK IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.

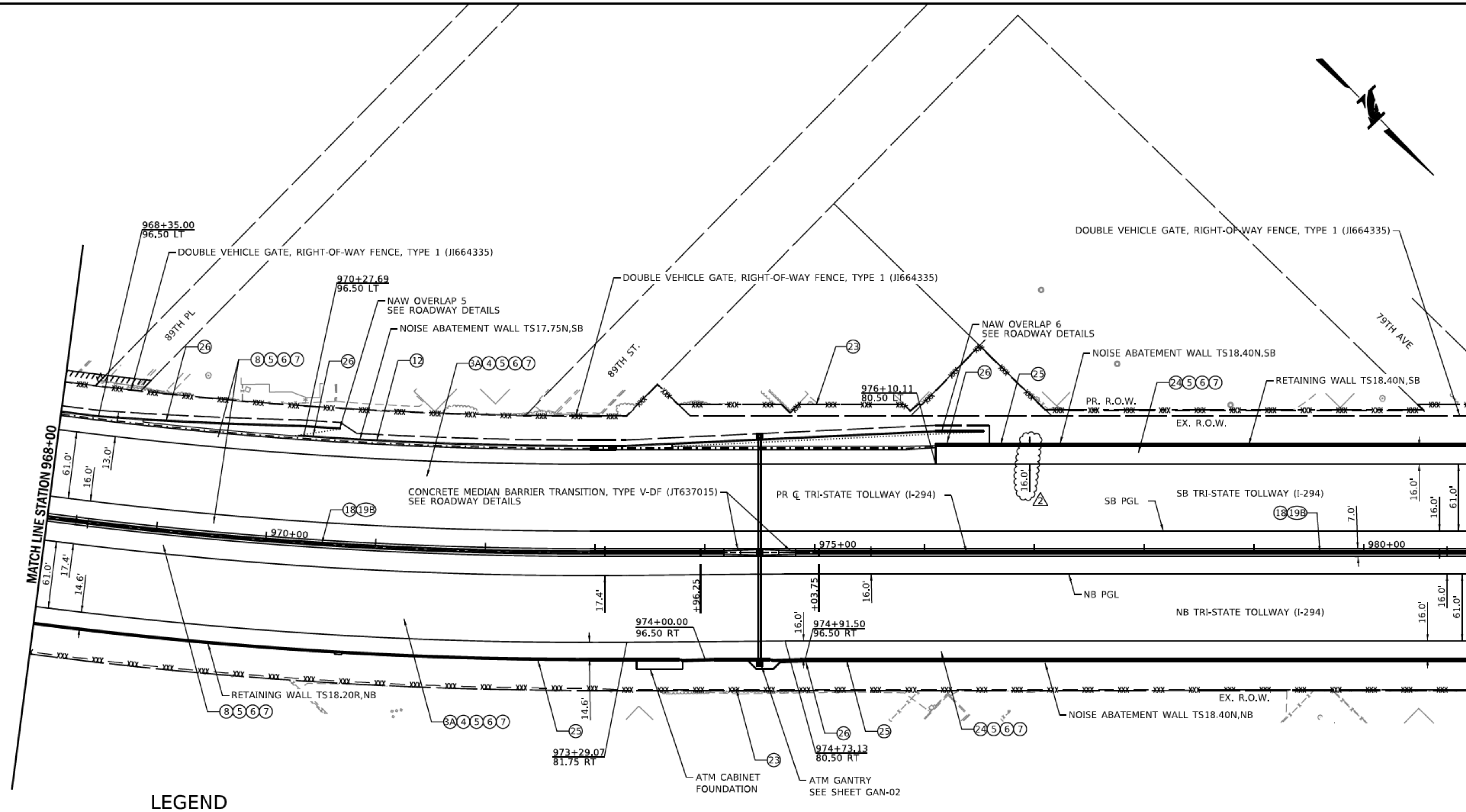
PROPOSED LEGEND

- (1A) NOT USED
- (1B) NOT USED
- (2) NOT USED
- (3A) JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT, 11" (JT420104)
- (3B) JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT, 10" (JT420102)
- (4) STABILIZED SUBBASE - WMA, 3" (JI312022)
- (5) SUBGRADE AGGREGATE 12 IN. (JT211A11)
  CAPPING AGGREGATE, 3" (THICKNESS VARIES UNDER SHOULDERS)
  POROUS GRANULAR EMBANKMENT, 9"
- (6) SUBGRADE FILTER FABRIC (JI282010)
- (7) CHEMICALLY STABILIZED SUBGRADE, 9" (JT900580) (MIN.CBR=10)
- (8) WARM MIX ASPHALT SHOULDERS SPECIAL (9 IN.) (JI482128)
- (9) WARM MIX ASPHALT SHOULDERS (6 IN.) (JI482104)
- (10) AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B 4" (JI481130)
- (11) AGGREGATE SHOULDERS SPECIAL, TYPE C (JI481070)
- (12) GUTTER, TYPE G-3 (JI606020)
- (13) GUTTER, TYPE G-2 (JI606010)
- (14A) PIPE UNDERDRAINS, FABRIC LINED TRENCH 6" (JI601320)
- (14B) PIPE UNDERDRAINS, FABRIC LINED TRENCH 8" (JI601325)
- (15) GALVANIZED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (JI630002)
- (16) NOT USED
- (17) NOT USED
- (18) CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT (JT637810)
- (19A) BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT, 5 FEET (JT637816)
- (19B) BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT (JT637811)
- (20) CONCRETE GUTTER (SPECIAL) (JI606050)
- (21) CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, 44" (JT637400)
- (22) BASE FOR CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, 44 INCH (JT637401)
- (23) RIGHT-OF-WAY FENCE, TYPE 1, 6' (JS664305)
- (24) MOMENT SLAB (SEE STRUCTURAL PLANS)
- (25) RETAINING WALL (SEE RETAINING WALL PLANS)
- (26) NOISE ABATEMENT WALL (SEE NOISE ABATEMENT WALL PLANS)
- (27) ITS DUCT PACKAGE (SEE ITS PLANS)
- (28) SEEDING (SEE LANDSCAPE PLANS)
- (29) TOPSOIL (SEE LANDSCAPE PLANS)

DRAWN BY SKO	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY BJZ	DATE 05/26/2020		

REVISIONS		
NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

CONTRACT NO. I-20-4517	TYP-09
PROPOSED TYPICAL SECTIONS	DRAWING NO. 49 OF 1762

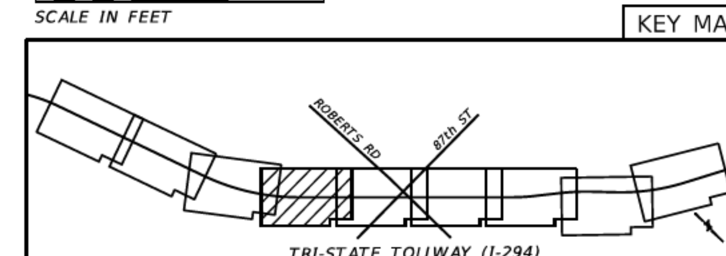


LEGEND

1. NOT USED
2. NOT USED
3A. JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT 11" (JT420104)
3B. JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT 10.25" (JT420103)
4. STABILIZED SUBBASE - WMA, 3" (JI312022)
5. SUBGRADE AGGREGATE 12 IN. (JT211A11)
   CAPPING AGGREGATE, 3" (THICKNESS VARIES UNDER SHOULDERS)
   POROUS GRANULAR EMBANKMENT, 9"
6. SUBGRADE FILTER FABRIC (JI282010)
7. CHEMICALLY STABILIZED SUBGRADE, 9" (JT900580)
8. WARM-MIX ASPHALT SHOULDERS, SPECIAL (9 IN.) (JI482128)
9. WARM-MIX ASPHALT SHOULDERS (6 IN.) (JI482104)
10. AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B 4" (JI481130)
11. AGGREGATE SHOULDERS SPECIAL, TYPE C (JI481070)
12. GUTTER, TYPE G-3 (JI606020)
13. GUTTER, TYPE G-2 (JI606010)
14. NOT USED
15. GALVANIZED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (JI630002)
16. NOT USED
17. NOT USED
18. CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT (JT637810)
19A. BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT, 5 FEET (JT637816)
19B. BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT (JT637811)
20. CONCRETE GUTTER (SPECIAL) (JI606050)
21. CONCRETE BARRIER, SINGLE FACE, REINFORCED, 44 INCH (JT637110)
22. CONCRETE BARRIER BASE, REINFORCED, FOR SINGLE FACE BARRIER 44 INCH (JT637054)
23. RIGHT-OF-WAY FENCE, TYPE 1, 6' (JS664305)
24. MOMENT SLAB (SEE STRUCTURAL PLANS)
25. RETAINING WALL (SEE RETAINING WALL PLANS)
26. NOISE ABATEMENT WALL (SEE NOISE ABATEMENT WALL PLANS)

0 50 100 150
SCALE IN FEET

KEY MAP



DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

CONTRACT NO. I-20-4517

RDY-04

ROADWAY PLANS
STA. 968+00 - STA. 981+00

DRAWING NO.
171 OF 1762

PLOT TIME = 2:40:53 PM
PLOT DATE = 7/24/2020
PLOT SCALE = 100.0000 ' / in.
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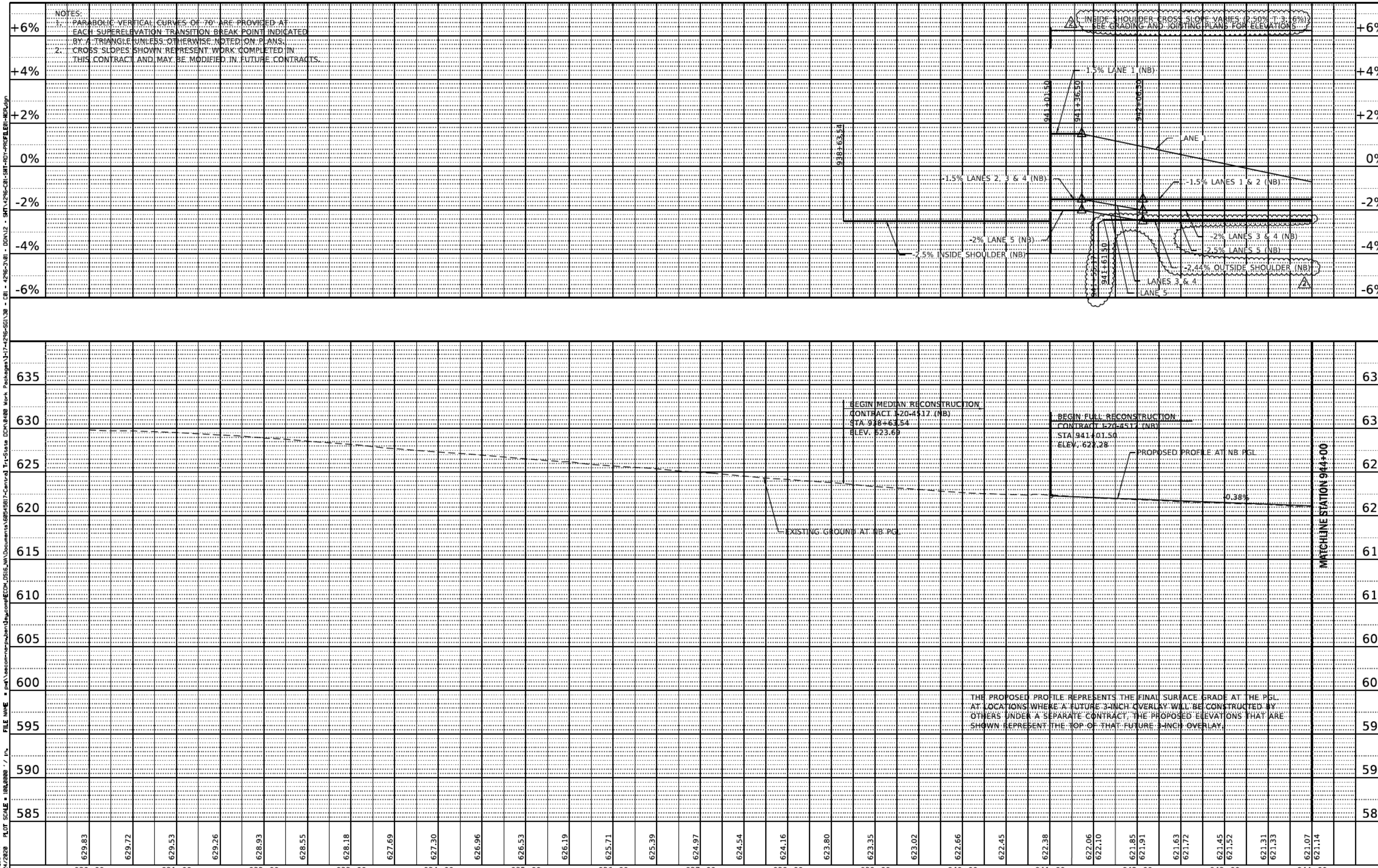


NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.
+6%
+4%
+2%
0%
-2%
-4%
-6%
INSIDE SHOULDER CROSS SLOPE VARIES (2.50% T 3.16%) SEE GRADING AND JOINTING PLANS FOR ELEVATIONS
1.5% LANE 1 (NB)
941+01.50
941+36.50
942+06.50
938+63.54
LANE 1
-1.5% LANES 2, 3 & 4 (NB)
-1.5% LANES 1 & 2 (NB)
-2% LANE 5 (NB)
-2.5% INSIDE SHOULDER (NB)
-2% LANES 3 & 4 (NB)
-2.5% LANES 5 (NB)
-2.44% OUTSIDE SHOULDER (NB)
941+61.50
LANES 3 & 4
LANE 5
635
630
625
620
615
610
605
600
595
590
585
BEGIN MEDIAN RECONSTRUCTION
CONTRACT I-20-4517 (NB)
STA 938+63.54
ELEV. 623.69
BEGIN FULL RECONSTRUCTION
CONTRACT I-20-4517 (NB)
STA 941+01.50
ELEV. 622.28
PROPOSED PROFILE AT NB PGL
0.38%
EXISTING GROUND AT NB PGL
MATCHLINE STATION 944+00
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
629.83 629.72 629.53 629.26 628.93 628.55 628.18 627.69 627.30 626.96 626.53 626.19 625.71 625.39 624.97 624.54 624.16 623.80 623.35 623.02 622.66 622.45 622.38 622.06 622.10 621.85 621.91 621.63 621.72 621.45 621.52 621.31 621.33 621.07 621.14
930+00 931+00 932+00 933+00 934+00 935+00 936+00 937+00 938+00 939+00 940+00 941+00 942+00 943+00 944+00

DRAWN BY	SKO	DATE	05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018
CHECKED BY	BJZ	DATE	05/26/2020	

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

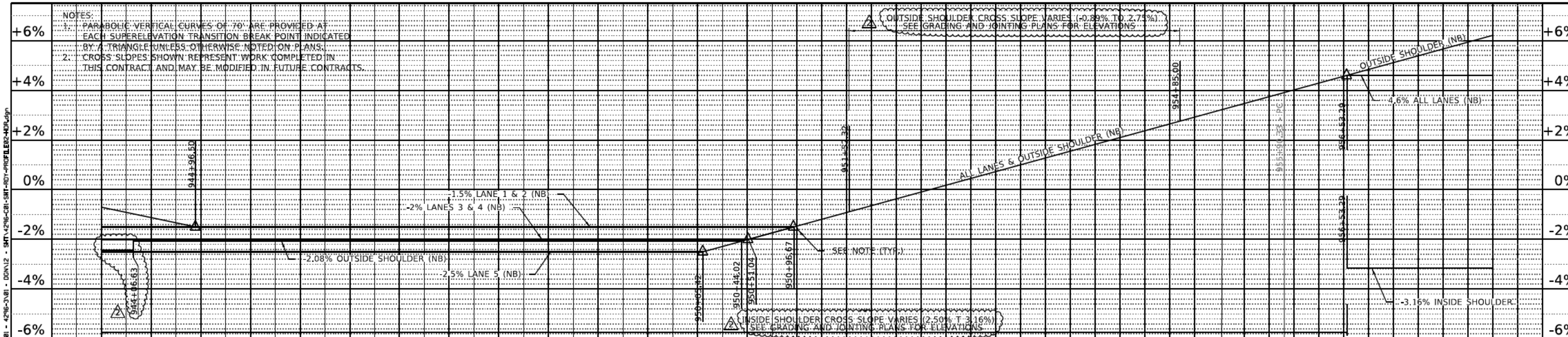
CONTRACT NO. I-20-4517

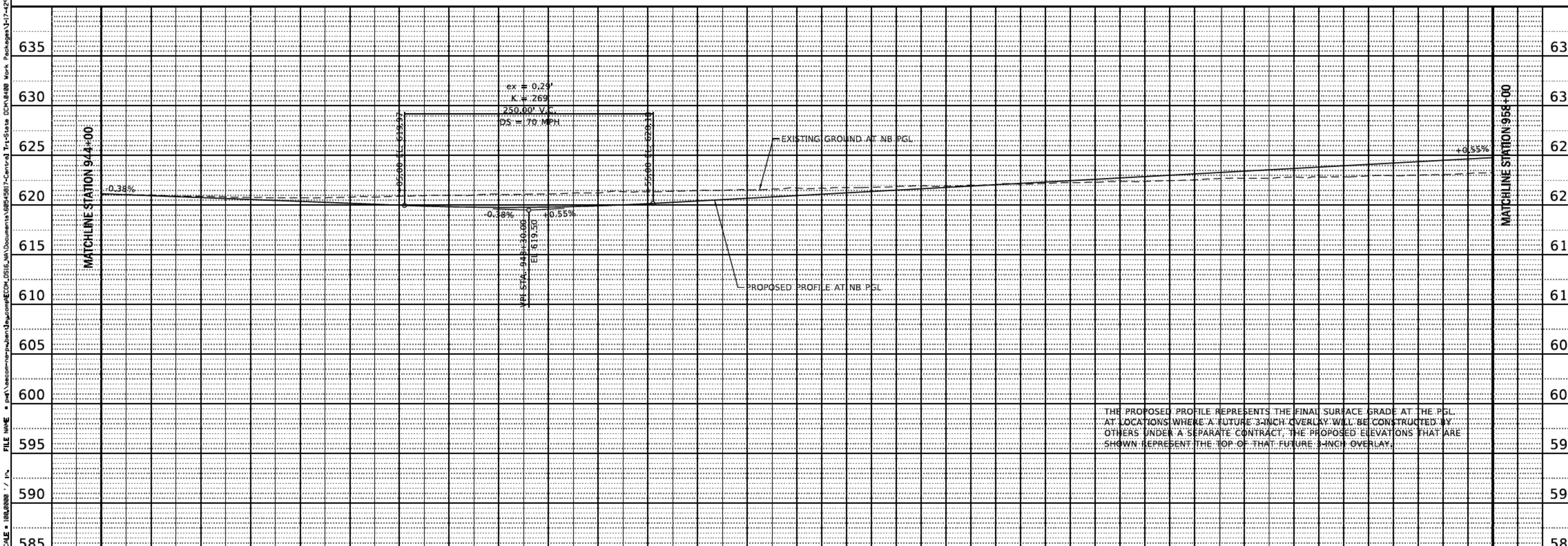
ROADWAY PROFILE & SUPERELEVATION NORTHBOUND

PRO-01

DRAWING NO. 199 OF 1762

NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.





THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.

Station	Elevation	Elevation
944+00	621.07	621.14
944+50	621.03	620.95
945+00	620.90	620.76
945+50	620.77	620.57
946+00	620.74	620.38
946+50	620.80	620.18
947+00	620.90	619.99
947+50	620.99	619.84
948+00	621.10	619.78
948+50	621.13	619.81
949+00	621.23	619.93
949+50	621.35	620.15
950+00	621.48	620.42
950+50	621.55	620.70
951+00	621.73	620.97
951+50	621.77	621.24
952+00	621.89	621.52
952+50	621.91	621.79
953+00	622.06	622.06
953+50	622.19	622.34
954+00	622.31	622.61
954+50	622.39	622.88
955+00	622.55	623.15
955+50	622.71	623.43
956+00	622.83	623.70
956+50	622.85	623.97
957+00	622.97	624.25
957+50	623.08	624.52
958+00	623.27	624.79

DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

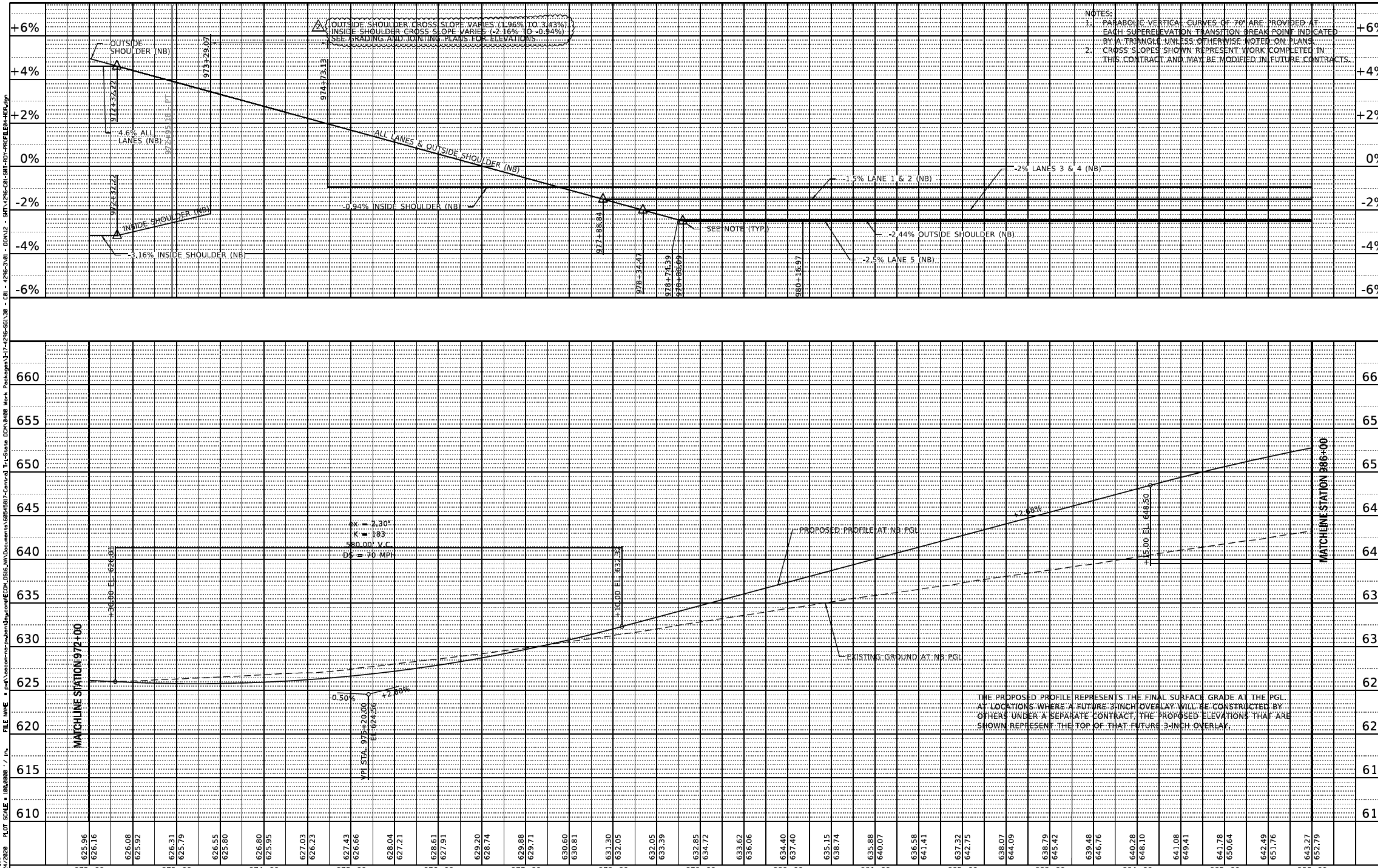
CONTRACT NO. I-20-4517

PRO-02

ROADWAY PROFILE & SUPERELEVATION NORTHBOUND

DRAWING NO. 200 OF 1762

PLOT TIME = 3:04:04 PM
PLOT DATE = 7/24/2020
PLOT SCALE = 100.0000 '/ in.
FILE NAME = pw:\\abcomm-na-pw.bentley.com:HECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SG1.30 - CBI - 4296-3\01 - DDN\12 - SHT\4296-C01-SHT-RDY-PROFILE02-HDR.dgn



NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.
OUTSIDE SHOULDER CROSS SLOPE VARIES (1.96% TO 3.43%)
INSIDE SHOULDER CROSS SLOPE VARIES (-2.16% TO -0.94%)
SEE GRADING AND JOINTING PLANS FOR ELEVATIONS
+6%
+4%
+2%
0%
-2%
-4%
-6%
OUTSIDE SHOULDER (NB)
4.6% ALL LANES (NB)
INSIDE SHOULDER (NB)
-3.16% INSIDE SHOULDER (NB)
972+32.22
973+29.07
974+73.13
ALL LANES & OUTSIDE SHOULDER (NB)
-0.94% INSIDE SHOULDER (NB)
-1.5% LANE 1 & 2 (NB)
-2% LANES 3 & 4 (NB)
SEE NOTE (TYP)
-2.44% OUTSIDE SHOULDER (NB)
-2.5% LANE 5 (NB)
977+88.84
978+34.47
978+74.39
978+86.09
980+16.97
660
655
650
645
640
635
630
625
620
615
610
MATCHLINE STATION 972+00
MATCHLINE STATION 986+00
ex = 2.30'
K = 183
580.00' V.C.
DS = 70 MPH
+36.00 EL 626.01
+10.00 EL 632.32
-0.50%
+2.68%
VPI STA. 975+20.00
EL 624.56
+2.68%
PROPOSED PROFILE AT NB PGL
EXISTING GROUND AT NB PGL
+15.00 EL 648.50
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
625.96 626.16
626.08 625.92
626.31 625.79
626.55 625.80
626.80 625.95
627.03 626.23
627.43 626.66
628.04 627.21
628.61 627.91
629.20 628.74
629.88 629.71
630.60 630.81
631.30 632.05
632.05 633.39
632.85 634.72
633.62 636.06
634.40 637.40
635.15 638.74
635.88 640.07
636.58 641.41
637.32 642.75
638.07 644.09
638.79 645.42
639.48 646.76
640.28 648.10
641.08 649.41
641.78 650.64
642.49 651.76
643.27 652.79
972+00
973+00
974+00
975+00
976+00
977+00
978+00
979+00
980+00
981+00
982+00
983+00
984+00
985+00
986+00

DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

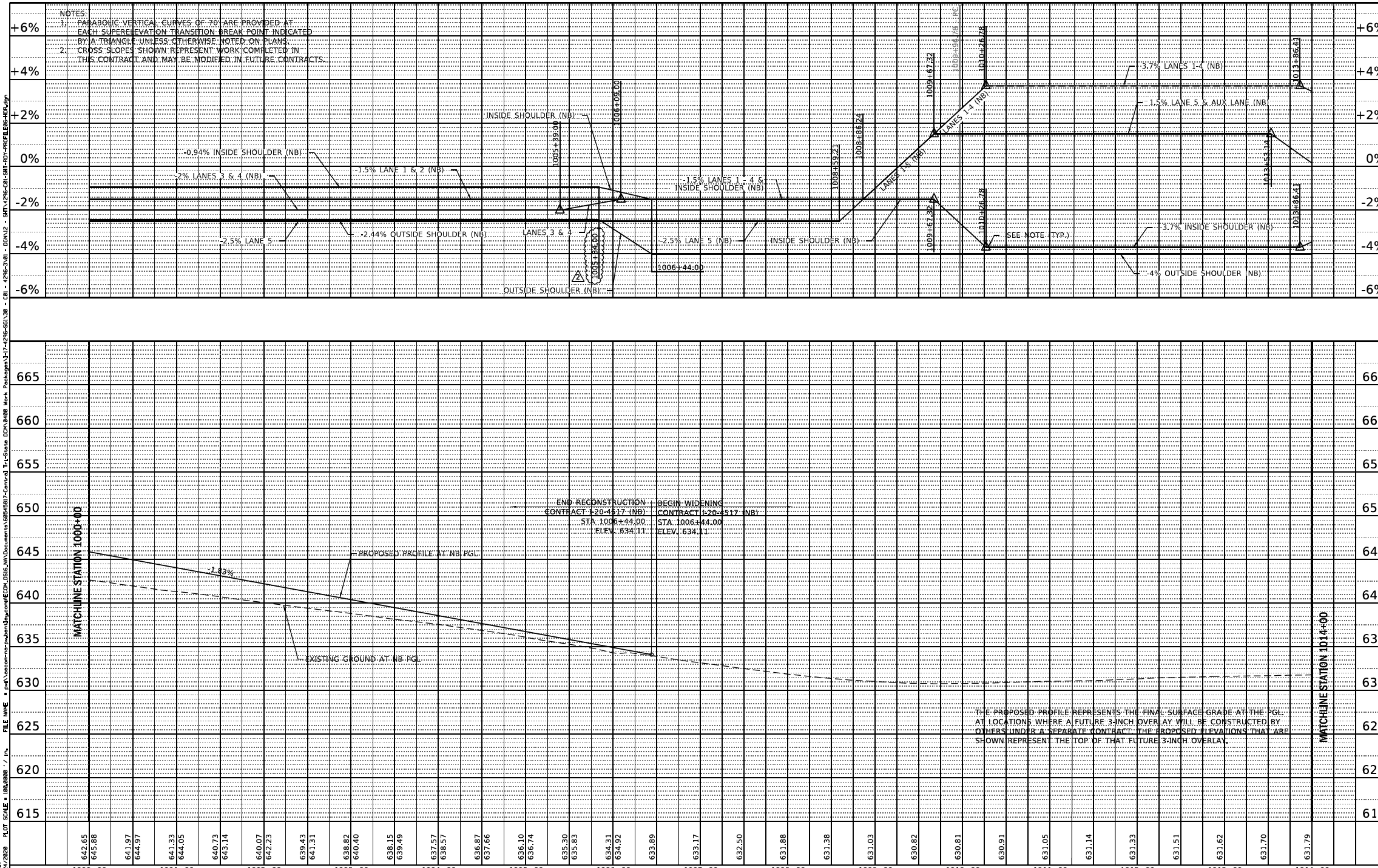
NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

CONTRACT NO. I-20-4517

PRO-04

ROADWAY PROFILE & SUPERELEVATION NORTHBOUND

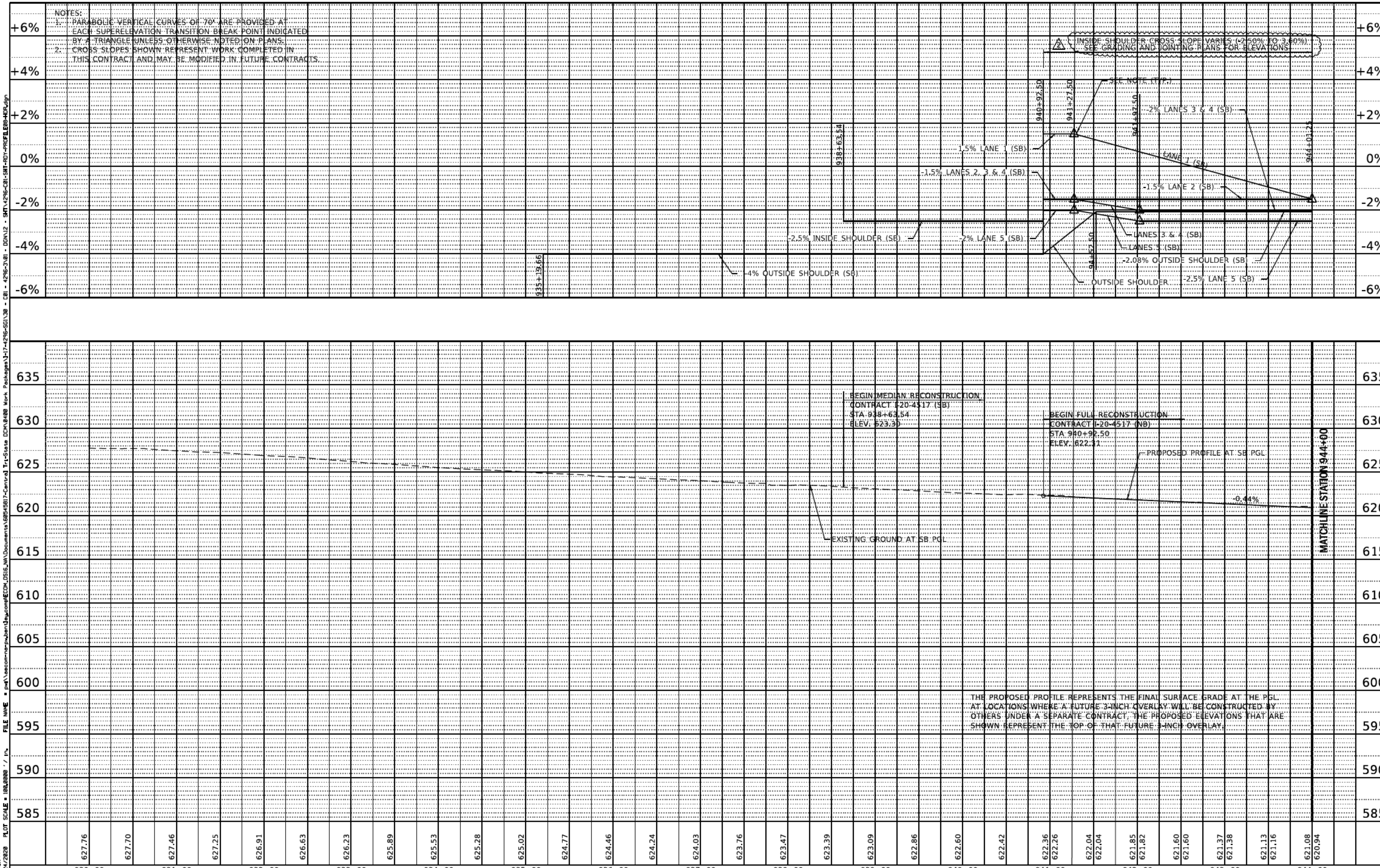
DRAWING NO. 202 OF 1762


NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.
+6%
+4%
+2%
0%
-2%
-4%
-6%
INSIDE SHOULDER (NB)
-0.94% INSIDE SHOULDER (NB)
-1.5% LANE 1 & 2 (NB)
-2% LANES 3 & 4 (NB)
-2.5% LANE 5
-2.44% OUTSIDE SHOULDER (NB)
LANES 3 & 4
OUTSIDE SHOULDER (NB)
1005+39.00
1006+09.00
1005+94.00
1006+44.00
-1.5% LANES 1 - 4 & INSIDE SHOULDER (NB)
-2.5% LANE 5 (NB)
INSIDE SHOULDER (NB)
1008+59.21
1008+86.24
LANES 1-5 (NB)
LANES 1-4 (NB)
1009+67.32
1009+94.76 PC
1010+26.78
SEE NOTE (TYP.)
3.7% LANES 1-4 (NB)
1.5% LANE 5 & AUX LANE (NB)
1013+53.14
1013+86.41
-3.7% INSIDE SHOULDER (NB)
-4% OUTSIDE SHOULDER (NB)
665
660
655
650
645
640
635
630
625
620
615
MATCHLINE STATION 1000+00
MATCHLINE STATION 1014+00
END RECONSTRUCTION
CONTRACT I-20-4517 (NB)
STA 1006+44.00
ELEV. 634.11
BEGIN WIDENING
CONTRACT I-20-4517 (NB)
STA 1006+44.00
ELEV. 634.11
PROPOSED PROFILE AT NB PGL
-1.83%
EXISTING GROUND AT NB PGL
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
642.65 645.88
641.97 644.97
641.33 644.05
640.73 643.14
640.07 642.23
639.43 641.31
638.82 640.40
638.15 639.49
637.57 638.57
636.87 637.66
636.10 636.74
635.30 635.83
634.31 634.92
633.89
633.17
632.50
631.88
631.38
631.03
630.82
630.81
630.91
631.05
631.14
631.33
631.51
631.62
631.70
631.79
1000+00
1001+00
1002+00
1003+00
1004+00
1005+00
1006+00
1007+00
1008+00
1009+00
1010+00
1011+00
1012+00
1013+00
1014+00

DRAWN BY	SKO	DATE	05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	CONTRACT NO. I-20-4517	PRO-06
CHECKED BY	BJZ	DATE	05/26/2020			ROADWAY PROFILE & SUPERELEVATION NORTHBOUND	DRAWING NO. 204 OF 1762

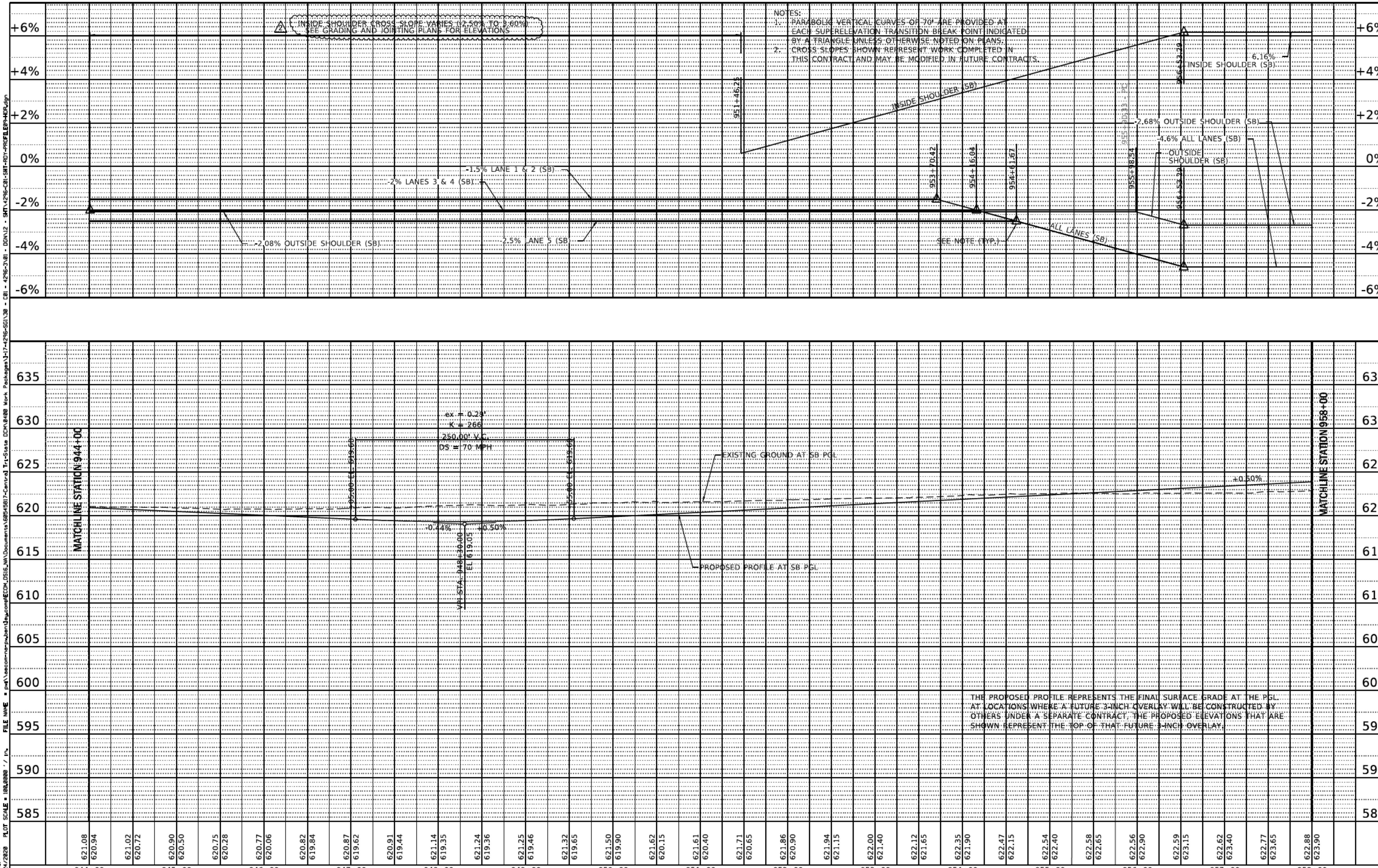
REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2



NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.
+6%
+4%
+2%
0%
-2%
-4%
-6%
2 INSIDE SHOULDER CROSS SLOPE VARIES (-2.50% TO 3.60%) SEE GRADING AND JOINTING PLANS FOR ELEVATIONS
SEE NOTE (TYP.)
-2% LANES 3 & 4 (SB)
1.5% LANE 1 (SB)
LANE 1 (SB)
-1.5% LANES 2, 3 & 4 (SB)
-1.5% LANE 2 (SB)
-2.5% INSIDE SHOULDER (SB)
-2% LANE 5 (SB)
LANES 3 & 4 (SB)
LANES 5 (SB)
-2.08% OUTSIDE SHOULDER (SB)
-4% OUTSIDE SHOULDER (SB)
OUTSIDE SHOULDER
-2.5% LANE 5 (SB)
935+19.66
938+63.54
940+92.50
941+27.50
941+52.50
941+97.50
944+01.25
635
630
625
620
615
610
605
600
595
590
585
BEGIN MEDIAN RECONSTRUCTION
CONTRACT I-20-4517 (SB)
STA 938+63.54
ELEV. 623.30
BEGIN FULL RECONSTRUCTION
CONTRACT I-20-4517 (NB)
STA 940+92.50
ELEV. 622.31
PROPOSED PROFILE AT SB PGL
-0.44%
EXISTING GROUND AT SB PGL
MATCHLINE STATION 944+00
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
627.76
627.70
627.46
627.25
626.91
626.63
626.23
625.89
625.53
625.28
625.02
624.77
624.46
624.24
624.03
623.76
623.47
623.39
623.09
622.86
622.60
622.42
622.36
622.26
622.04
622.04
621.85
621.82
621.60
621.60
621.37
621.38
621.13
621.16
621.08
620.94
930+00
931+00
932+00
933+00
934+00
935+00
936+00
937+00
938+00
939+00
940+00
941+00
942+00
943+00
944+00

DRAWN BY SKO DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS: NO. 2 — DATE 07/28/2020 — DESCRIPTION ADDENDUM NO. 2	CONTRACT NO. I-20-4517	PRO-08
CHECKED BY BJZ DATE 05/26/2020				ROADWAY PROFILE & SUPERELEVATION SOUTHBOUND	DRAWING NO. 206 OF 1762



DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

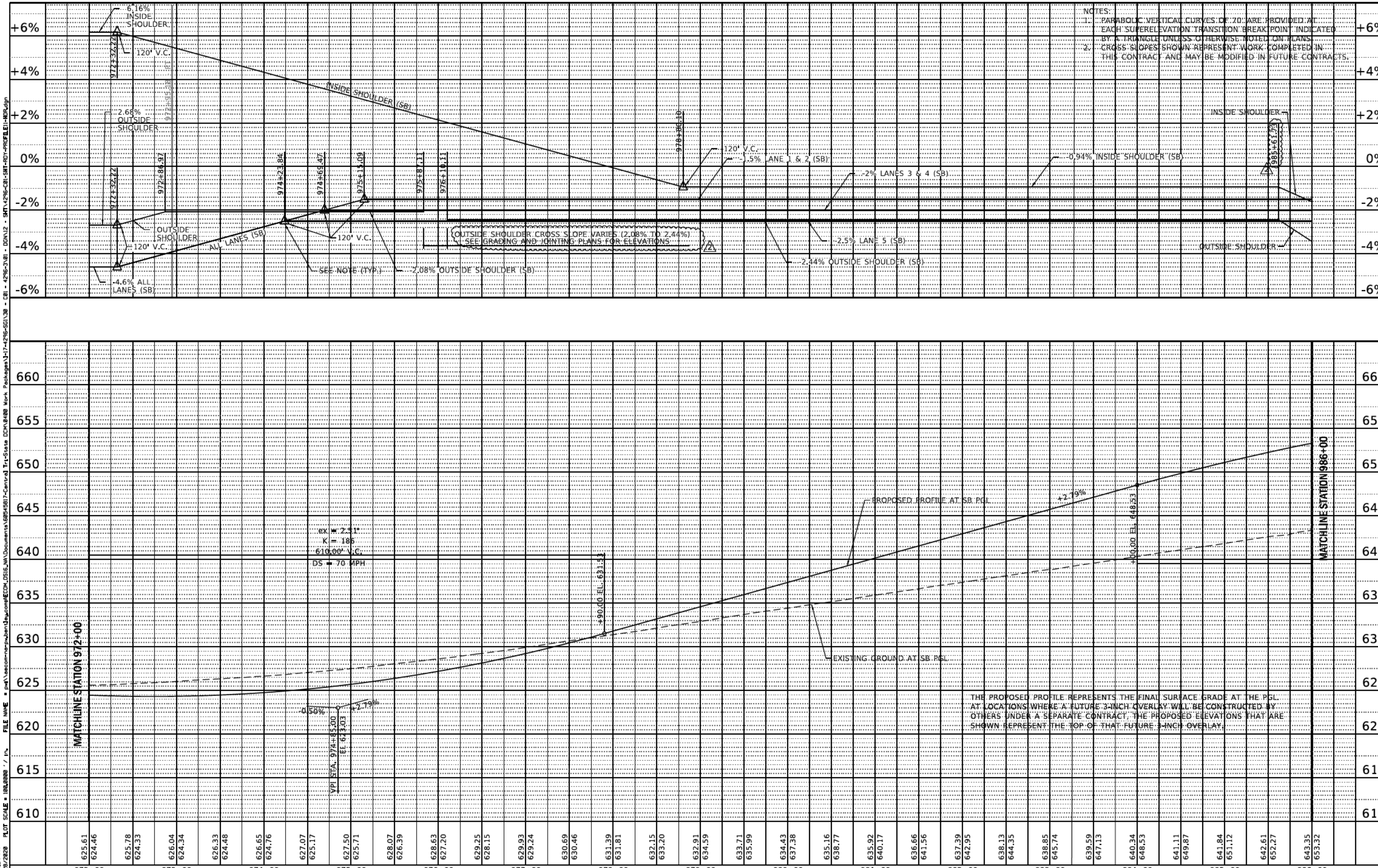
NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

CONTRACT NO. I-20-4517

ROADWAY PROFILE & SUPERELEVATION SOUTHBOUND

PRO-09

DRAWING NO. 207 OF 1762


NOTES:
1. PARABOLIC VERTICAL CURVES OF 70' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
2. CROSS SLOPES SHOWN REPRESENT WORK COMPLETED IN THIS CONTRACT AND MAY BE MODIFIED IN FUTURE CONTRACTS.
+6%
+4%
+2%
0%
-2%
-4%
-6%
6.16% INSIDE SHOULDER
972+32.22
120' V.C.
INSIDE SHOULDER (SB)
2.68% OUTSIDE SHOULDER
972+86.97
974+23.84
974+69.47
975+15.09
975+87.11
976+10.11
978+76.10
120' V.C.
-1.5% LANE 1 & 2 (SB)
-2% LANES 3 & 4 (SB)
-0.94% INSIDE SHOULDER (SB)
INSIDE SHOULDER
985+61.72
OUTSIDE SHOULDER
120' V.C.
ALL LANES (SB)
120' V.C.
OUTSIDE SHOULDER CROSS SLOPE VARIES (2.08% TO 2.44%) SEE GRADING AND JOINTING PLANS FOR ELEVATIONS
-2.5% LANE 5 (SB)
OUTSIDE SHOULDER
-4.6% ALL LANES (SB)
SEE NOTE (TYP.)
-2.08% OUTSIDE SHOULDER (SB)
-2.44% OUTSIDE SHOULDER (SB)
660
655
650
645
640
635
630
625
620
615
610
MATCHLINE STATION 972+00
MATCHLINE STATION 986+00
ex = 2.51'
K = 186
610.00' V.C.
DS = 70 MPH
+90.00 EL. 631.51
PROPOSED PROFILE AT SB PGL
+2.79%
+90.00 EL. 648.53
EXISTING GROUND AT SB PGL
-0.50%
+2.79%
VPI STA. 974+85.00
EL 623.03
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL. AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
625.61 624.46
625.78 624.33
626.04 624.34
626.33 624.48
626.65 624.76
627.07 625.17
627.50 625.71
628.07 626.39
628.63 627.20
629.25 628.15
629.93 629.24
630.69 630.46
631.39 631.81
632.15 633.20
632.91 634.59
633.71 635.99
634.43 637.38
635.16 638.77
635.92 640.17
636.66 641.56
637.39 642.95
638.13 644.35
638.85 645.74
639.59 647.13
640.34 648.53
641.11 649.87
641.84 651.12
642.61 652.27
643.35 653.32
972+00
973+00
974+00
975+00
976+00
977+00
978+00
979+00
980+00
981+00
982+00
983+00
984+00
985+00
986+00

DRAWN BY	SKO	DATE	05/26/2020	
CHECKED BY	BJZ	DATE	05/26/2020	

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

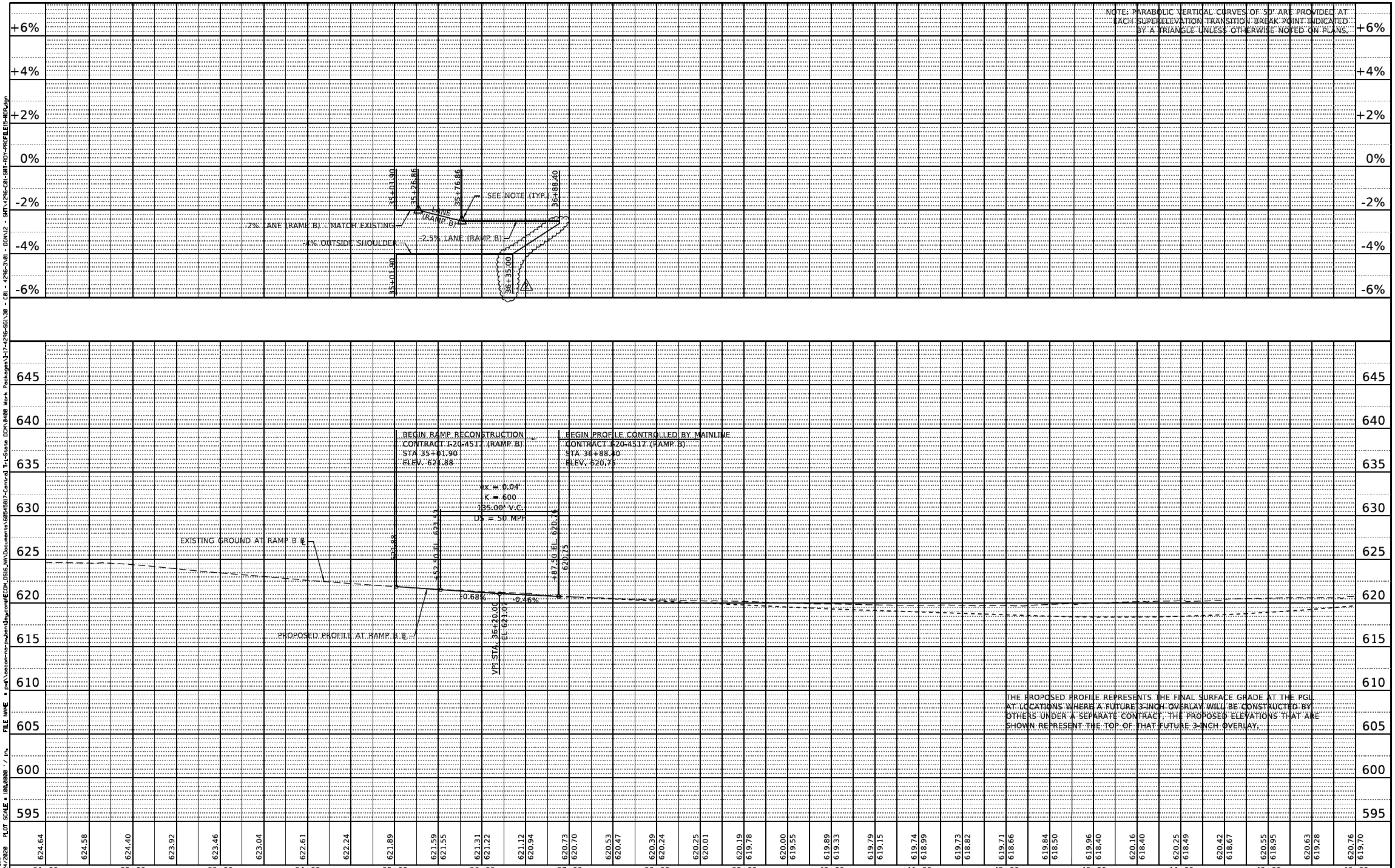
CONTRACT NO. I-20-4517

PRO-11

ROADWAY PROFILE & SUPERELEVATION SOUTHBOUND

DRAWING NO. 209 OF 1762

PLOT TIME = 1:44:29 PM
PLOT DATE = 7/28/2020
PLOT SCALE = 100.0000 ' / in.


NOTE: PARABOLIC VERTICAL CURVES OF 50' ARE PROVIDED AT EACH SUPERELEVATION TRANSITION BREAK POINT INDICATED BY A TRIANGLE UNLESS OTHERWISE NOTED ON PLANS.
+6%
+4%
+2%
0%
-2%
-4%
-6%
35+01.90
35+26.86
35+76.86
36+88.40
36+35.00
SEE NOTE (TYP.)
-2% LANE (RAMP B) - MATCH EXISTING
LANE (RAMP B)
-2.5% LANE (RAMP B)
-4% OUTSIDE SHOULDER
645
640
635
630
625
620
615
610
605
600
595
BEGIN RAMP RECONSTRUCTION
CONTRACT I-20-4517 (RAMP B)
STA 35+01.90
ELEV. 621.88
BEGIN PROFILE CONTROLLED BY MAINLINE
CONTRACT I-20-4517 (RAMP B)
STA 36+88.40
ELEV. 620.75
ex = 0.04'
K = 600
135.00' V.C.
DS = 50 MPH
EXISTING GROUND AT RAMP B ℄
PROPOSED PROFILE AT RAMP B ℄
-0.68%
-0.46%
VPI STA. 36+20.00
EL 621.07
+52.50 EL. 621.53
+87.50 EL. 620.76
620.75
THE PROPOSED PROFILE REPRESENTS THE FINAL SURFACE GRADE AT THE PGL AT LOCATIONS WHERE A FUTURE 3-INCH OVERLAY WILL BE CONSTRUCTED BY OTHERS UNDER A SEPARATE CONTRACT, THE PROPOSED ELEVATIONS THAT ARE SHOWN REPRESENT THE TOP OF THAT FUTURE 3-INCH OVERLAY.
624.64
624.58
624.40
623.92
623.46
623.04
622.61
622.24
621.89
621.59 621.55
621.31 621.22
621.12 620.94
620.73 620.70
620.53 620.47
620.39 620.24
620.25 620.01
620.19 619.78
620.00 619.55
619.89 619.33
619.79 619.15
619.74 618.99
619.73 618.82
619.71 618.66
619.84 618.50
619.96 618.40
620.16 618.40
620.25 618.49
620.42 618.67
620.55 618.95
620.63 619.28
620.76 619.70
31+00
32+00
33+00
34+00
35+00
36+00
37+00
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41+00
42+00
43+00
44+00
45+00
46+00

DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE.
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
2	07/28/2020	ADDENDUM NO. 2

CONTRACT NO. I-20-4517

PRO-15

ROADWAY PROFILE & SUPERELEVATION
95TH STREET RAMP B

DRAWING NO. 213 OF 1762

ADDENDUM NO. 1
TO
CONTRACT REQUIREMENTS
FOR CONTRACT I-20-4517
ILLINOIS STATE TOLL HIGHWAY AUTHORITY

Date: 7/21/2020

For which proposals will be received by the Illinois State Toll Highway Authority at its offices, 2700 Ogden Avenue, Downers Grove, Illinois 60515 until 10:30:00 A.M. local time, **August 7, 2020.**

NOTICE OF REVISION TO CONTRACT

NOTES:

1. A complete set of Schedule of Prices is included with this Addendum and must be inserted into the Contract Bid by the Bidder. The Bidder's attention is called to pages P-5R, P-9R through P-13R, P-15R, P-17R, P-18R, P-20R through P-22R, P-25R, P-26R, P-28R, P-29R, P-32R, P-36R through P-38R, P-42R, P-44R and P-45R which have been revised and included as part of the Schedule of Prices.

2. The following revised Special Provision pages are included in the Contract with this Addendum: J-iR, J-iiR, J-ivR, J-viR, J-viiiR, J-xiR through J-xiiiR, J-12R, J-26R, J-27R, J-111R, J-112R, J-121R, J-122R, J-287R, J-663R through J-672R, CC-23R through CC-25R, CC-35R, CC-49R, and CC-93R.

3. The following new Special Provision pages are included in the Contract with this Addendum: J-116A, J-116B, J-521A, J-672A, and CC-210 through CC-214.

4. The following Special Provision pages were deleted from the Contract by this Addendum: CC-10, CC-65, CC-66, CC-84, CC-85, CC-88, and CC-89.

5. The following revised Contract Drawings are included in this Addendum:
   Volume 1 – Drawings 18, 19, 21, 29, 51, 61, 62, 180, 217, 249, 260 through 266, 276
   Volume 2 – Drawings 502, 504, 509, 510, 513
   Volume 3 – Drawings 629, 631, 634 through 636, 763
   Volume 5 – Drawings 1086, 1088, 1092 through 1095, 1098 through 1102, 1112, 1114, 1115, 1117, 1118, 1120 through 1131, 1147, 1150, 1156 through 1160, 1162 through 1168, 1170 through 1178, 1180 through 1188, 1190 through 1193, 1195, 1198, 1209, 1211, 1212, 1217, 1225
   Volume 7 – Drawings 1574, 1603 through 1605, 1607, 1608

6. The following new Contract Drawings are included in this Addendum:
   Volume 1 – Drawings 62A, 293A

7. Revised Contract Drawings 9 through 17 will be issued to the successful Bidder. The revised drawings will reflect the quantity changes shown in the "Summary of Revisions to Pay Item Quantities" table included in this addendum.

8. The following revised Contract Drawings will be issued to the successful Bidder.
   Volume 1 – Drawings 5, 279, 285, 288
   Volume 2 – Drawing 297
   Volume 3 – Drawings 606, 675, 759
   Volume 4 – Drawings 861, 880, 885, 888, 896, 905, 926, 927, 947, 952, 956, 960, 962, 963, 974, 982, 985, 1005, 1006, 1024, 1027, 1028, 1030, 1031, 1034, 1036, 1054, 1055
   Volume 5 – Drawing 1085
   Volume 6 – Drawing 1275
   Volume 7 – Drawing 1573

9. A new reference document has been posted to the Online Plan Room: Revised Preliminary Site Investigation Report, W. 87th Street and S. Roberts Road, June 19, 2020.

10. The minutes and sign-in sheet from the Optional Pre-Bid Meeting held on June 29, 2020 are included in this Addendum.

11. Responses to Request for Information received from the Plan Holders are included in this Addendum.

CHANGES TO THE CONTRACT REQUIREMENTS

CHANGES TO THE SCHEDULE OF PRICES

SUMMARY OF REVISIONS TO PAY ITEMS QUANTITIES						
SP. PROV. *	PAY ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	CHANGE	NEW QUANTITY
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	45	9	54
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	9	54
*	20200100	EARTH EXCAVATION	CU YD	137,719	6,603	144,322
*	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	6,036	-461	5,575
*	20400800	FURNISHED EXCAVATION	CU YD	9,645	-2,968	6,677
	20800150	TRENCH BACKFILL	CU YD	21,075	3	21,078
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	0	461	461
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	6,520	-2,764	3,756
	25000210	SEEDING, CLASS 2A	ACRE	0.5	0.3	0.8
	25100125	MULCH, METHOD 3	ACRE	0.5	0.3	0.8
	25100630	EROSION CONTROL BLANKET	SQ YD	2,420	484	2,904
	25200110	SODDING, SALT TOLERANT	SQ YD	4,100	-57	4,043
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	476	-11	465
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	9	-1	8
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	896	-231	665
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	4,523	211	4,734
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	4,552	-147	4,405
	550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	282	-1	281
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	4,121	-55	4,066
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1,369	-1	1,368
	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	2,652	-229	2,423
	550A0490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	993	229	1,222
	550A4710	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	0	223	223
	550A4900	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	143	18	161
	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	0	11	11
	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	FOOT	0	69	69
	550A5510	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 48"	FOOT	223	-223	0
	60204505	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	6	-1	5
BDE	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	-1	5
	70600280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW), TEST LEVEL 3	EACH	14	2	16
CC	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	210	-210	0
CC	81400200	HEAVY-DUTY HANDHOLE	EACH	0	4	4

CC	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	11	-11	0
CC	85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	2	-2	0
CC	86400100	TRANSCEIVER - FIBER OPTIC	EACH	0	1	1
CC	87301790	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2 C	FOOT	200	-200	0
CC	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,200	1,200	2,400
CC	87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	7	-7	0
CC	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	52	-28	24
CC	88700090	CONFIRMATION BEACON	EACH	2	5	7
CC	88700200	LIGHT DETECTOR	EACH	2	5	7
CC	88800100	PEDESTRIAN PUSH-BUTTON	EACH	0	8	8
CC	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4	-4	0
CC	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	-1	0
CC	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	0	7	7
CC	X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1	-1	0
CC	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	-8	0
CC	X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	0	28	28
CC	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	310	21	331
CC	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	0	147	147
*	JI551010	SLOTTED DRAIN REMOVAL	FOOT	6,459	461	6,920
*	JI602143	CATCH BASINS, TYPE G-5, TYPE 20A FRAME AND GRATE	EACH	1	-1	0
*	JI602206	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	3	-1	2
*	JI602332	MANHOLE, TYPE A, 6 FT DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	1	1	2
*	JI704005	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	60,200	850	61,050
**	JS120300	SLOTTED PAVEMENT DRAIN (RETROFIT) (12 in.)	FOOT	2,114	-452	1,662
**	JS811060	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	0	880	880
*	JT154046	CONTRACT ALLOWANCE FOR SPECIAL NOISE ABATEMENT WALL	UNIT	0	4,300,000	4,300,000
*	JT202009	NON-SPECIAL WASTE DISPOSAL, TYPE 1	CU YD	9,583	458	10,041
*	JT421510	SLEEPER SLAB	SQ YD	164	27	191
*	JT546200	SLOTTED DRAINS TO BE CLEANED	FOOT	6,582	461	7,043
*	JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ FT	161,105	2,375	163,480
*	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ FT	83,170	-39,678	43,492
*	JT602300	MANHOLE, TYPE A, 6' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	9	-1	8
*	JT602330	MANHOLE, TYPE A, 7' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	4	1	5
*	JT602335	MANHOLE, TYPE A, 9' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	1	1	2
*	JT602400	MANHOLE, TYPE A, 10' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	2	1	3

* Denotes Special Provision

Change #1 Contract Requirements, Volume I, pages P-5, P-9 through P-13, P-15, P-17, P-18, P-20 through P-22, P-25, P-26, P-28, P-29, P-32, P-36 through P-38, P-42, P-44 and P-45 replaced with pages P-5R, P-9R through P-13R, P-15R, P-17R, P-18R, P-20R through P-22R, P-25R, P-26R, P-28R, P-29R, P-32R, P-36R through P-38R, P-42R, P-44R and P-45R. These replacements contain the following revisions (attached):

1.1. Revised designation for pay item number 20201200.
1.2. Revised unit of measure for 999ADJ20, 999ADJ21, 999ADJ22, 999ADJ23, 999ADJ24, 999ADJ25
1.3. Moved item X1400216 to correct location by pay item number
1.4. Revised quantities as noted in the SUMMARY OF REVISIONS TO PAY ITEMS QUANTITIES.
1.5. Added the pay item for TOPSOIL EXCAVATION AND PLACEMENT (21101505).
1.6. Added the pay item for STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48" (550A4710).
1.7. Added the pay item for STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30" (550A5100).
1.8. Added the pay item for STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36" (550A5300).
1.9. Deleted the pay item for STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 48" (550A5510).
1.10. Deleted the pay item for RAISED REFLECTIVE PAVEMENT MARKER (78100100).
1.11. Added the pay item for HEAVY-DUTY HANDHOLE (81400200).
1.12. Deleted the pay item for PAINT NEW TRAFFIC SIGNAL POST (85100500).
1.13. Deleted the pay item for PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT (85100600).
1.14. Added the pay item for TRANSCEIVER – FIBER OPTIC (86400100).
1.15. Deleted the pay item for ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2-2 C (87301790).
1.16. Deleted the pay item for TRAFFIC SIGNAL POST, 10 FT. (87500600).
1.17. Added the pay item for PEDESTRIAN PUSH-BUTTON (88800100).
1.18. Deleted the pay item for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT (89501400).
1.19. Deleted the pay item for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT (89501410).
1.20. Added the pay item for PEDESTRIAN SIGNAL POST, 10 FT. (X1400367).
1.21. Deleted the pay item for FULL-ACTUATED CONTROLLER IN EXISTING CABINET (X8570215).
1.22. Deleted the pay item for ACCESSIBLE PEDESTRIAN SIGNALS (X8760200).
1.23. Added the pay item for CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER (X8780010).
1.24. Added the pay item for STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH (Z0056612).
1.25. Deleted the pay item for CATCH BASINS, TYPE G-5, TYPE 20A FRAME AND GRATE (JI602143).
1.26. Added the pay item for CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL (JS811060).
1.27. Added the pay item for CONTRACT ALLOWANCE FOR SPECIAL NOISE ABATEMENT WALL (JT154046).

CHANGES TO THE CONTRACT SPECIAL PROVISIONS

Change #2 Contract Requirements, Volumes II and III, replace pages J-i, J-ii, J-iv, J-vi, J-viii and J-xi through J-xiii with pages J-iR, J-iiR, J-ivR, J-viR, J-viiiR and J-xiR through J-xiiiR. These replacements contain the following revision (attached):

2.1. Updated Table of Contents to show new special provisions pages added as part of this addendum and revised page numbers for revised special provisions as part of this addendum.

Change #3 Contract Requirements, Volume II, replace page J-12 with page J-12R. This replacement contains the following revision (attached):

3.1. Revised Illinois Tollway Standard Drawing revision number for Noise Abatement Walls to latest revision.

Change #4 Contract Requirements, Volume II, replace pages J-26 and J-27 with pages J-26R and J-27R. These replacements contain the following revisions (attached):

4.1. Added projects for coordination with other contractors: Fiber Material Acquisition, Permanent Lighting Material Acquisition, Temporary Lighting Material Acquisition, 88th/Cork Ave at I-294 Interchange, Harlem Ave at 95th St Interchange.
4.2. Corrected contract numbers for Mile Long Bridge projects.

Change #5 Contract Requirements, Volume II, replace pages J-111 and J-112 with pages J-111R and J-112R. These replacements contain the following revision (attached):

5.1. Added parcel ID's TW-3A-16-084 through TW-3A-16-092 with projected acquisition date 1/3/2023, for temporary easements for driveway apron construction along 87th Street and Roberts Road.

Change #6 Contract Requirements, Volume II, add the following sheets J-116A and J-116B (attached):

6.1. Add the Special Provision for Contract Compliance (Illinois Tollway)

Change #7 Contract Requirements, Volume II, replace pages J-121 and J-122 with pages J-121R and J-122R. These replacements contain the following revision (attached):

7.1. Revised the Special Provision for Earth and Rock Excavation to define "unsuitable material."

Change #8 Contract Requirements, Volume II, replace page J-287 with page J-287R. This replacement contains the following revision (attached):

8.1. Revised pay item designation to remove pay item number JI602143.

Change #9 Contract Requirements, Volume II, add the following sheet J-521A (attached):

9.1. Add the Special Provision for Allowance for Noise Abatement Wall Construction

Change #10 Contract Requirements, Volume II, replace pages J-663 through J-672 with pages J-663R through J-672R and J-672A. This replacement contains the following revision (attached):

10.1. Revised special provision for PRECAST CONCRETE NOISE ABATEMENT WALL (Illinois Tollway GBSP).

Change #11 Contract Requirements, Volume III, replace page CC-10 with page CC-10R. This replacement contains the following revision (attached):

11.1. Deleted special provision for RAISED REFLECTIVE PAVEMENT MARKER.

Change #12 Contract Requirements, Volume III, replace pages CC-23 through CC-25 with pages CC-23R through CC-25R. These replacements contain the following revision (attached):

12.1. Revised pay items applicable to SP for TRAFFIC SIGNAL WORK GENERAL.

Change #13 Contract Requirements, Volume III, replace page CC-35 with page CC-35R. This replacement contains the following revision (attached):

13.1. Revised pay items applicable to SP for TRAFFIC SIGNAL POST AND PEDESTRIAN PUSH-BUTTON POST.

Change #14 Contract Requirements, Volume III, replace page CC-49 with page CC-49R. This replacement contains the following revision (attached):

14.1. Revised pay items applicable to SP for HANDHOLE.

Change #15 Contract Requirements, Volume III, replace page CC-65 with page CC-65R. This replacement contains the following revision (attached):

15.1. Deleted special provision for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT.

Change #16 Contract Requirements, Volume III, replace page CC-66 with page CC-66R. This replacement contains the following revision (attached):

16.1. Deleted special provision for RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.

Change #17 Contract Requirements, Volume III, replace pages CC-84 and CC-85 with pages CC-84R and CC-85R. These replacements contain the following revision (attached):

17.1. Deleted special provision for ACCESSIBLE PEDESTRIAN SIGNALS.

Change #18 Contract Requirements, Volume III, replace pages CC-88 and CC-89 with pages CC-88R and CC-89R. These replacements contain the following revision (attached):

18.1. Deleted special provision for TRAFFIC SIGNAL PAINTING.

Change #19 Contract Requirements, Volume III, replace page CC-93 with page CC-93R. This replacement contains the following revision (attached):

19.1. Revised pay items applicable to SP for STORM SEWER (WATER MAIN REQUIREMENTS).

Change #20 Contract Requirements, Volume III, add the following sheets CC-210 through CC-214 (attached):

20.1. Add the Special Provision for Concrete Foundation, Pedestrian Post.
20.2. Add the Special Provision for Pedestrian Push-Button.
20.3. Add the Special Provision for Pedestrian Signal Post.

CHANGES TO THE CONTRACT DRAWINGS

Change #21 Contract Plans, Volume 1, Drawing 5; Contract Plans, Volume 2, Drawing 297; Contract Plans, Volume 3, Drawing 606; Contract Plans, Volume 4, Drawing 861; Contract Plans, Volume 5, Drawing 1085; Contract Plans, Volume 6, Drawing 1275; Contract Plans, Volume 7, Drawing 1573. Summary of Quantities. These drawings contain the following revision (issued to successful Bidder):

21.1. Revised Illinois Tollway Standard Drawing revision number for Noise Abatement Walls (G12, G13, G14, G15, G16) to latest revision.

Change #22 Contract Plans, Volume 1, Drawings 9 through 17. Summary of Quantities. These drawings contain the following revision (issued to successful Bidder):

22.1. Revised quantities to reflect quantity changes shown in the “Summary of Revisions to Pay Items Quantities” table included in this addendum.

Change #23 Contract Plans, Volume 1, Drawings 18, 19 and 21. Schedule of Quantities. These drawings contain the following revisions (attached):

23.1. Added excavation and embankment volumes to account for estimated over-excavation of existing Zone B embankment material.
23.2. Revised calculation of suitable topsoil stripping and topsoil balance.
23.3. Revised notes for earthwork schedule.

Change #24 Contract Plans, Volume 1, Drawing 29. Schedule of Quantities. This drawing contains the following revision (attached):

24.1. Added quantity schedule for sleeper slabs associated with roadway plans.

Change #25 Contract Plans, Volume 1, Drawing 51. HMA Mix Table. This drawing contains the following revision (attached):

25.1. Added mixes for pavement patching.

Change #26 Contract Plans, Volume 1, Drawings 61 and 62. MOT Schedule of Quantities. These drawings contain the following revision (attached):

26.1. Revised quantity schedules for Impact Attenuators and Relocate Temporary Concrete Barrier for addition of Pre-Stage.

Change #27 Contract Plans, Volume 1, Drawing 62A. Maintenance of Traffic Pre-Stage. This new drawing contains the following revision (attached):

27.1. Added Pre-Stage plan to construct slotted drains at north crossover and SB median.

Change #28 Contract Plans, Volume 1, Drawing 180. Roadway Detail. This drawing contains the following revision (attached):

28.1. Revised pay item number for Concrete Median Barrier Transition at ATM Gantry.

Change #29 Contract Plans, Volume 1, Drawing 217. Temporary Drainage Schedule. This drawing contains the following revision (attached):

29.1. Revised slotted drains to be cleaned schedule and quantities.

Change #30 Contract Plans, Volume 1, Drawing 249. Drainage Removal Schedule. This drawing contains the following revision (attached):

30.1. Revised slotted drain removal schedule and quantities.

Change #31 Contract Plans, Volume 1, Drawings 260 through 262. Drainage Structure Schedule. These drawings contain the following revision (attached):

31.1. Revised schedule for drainage structure types and rim and invert elevations.

Change #32 Contract Plans, Volume 1, Drawings 263 through 265. Drainage Pipe Schedule. These drawings contain the following revision (attached):

32.1. Revised schedule for storm sewer pipe slopes, sizes, and types, and trench backfill.

Change #33 Contract Plans, Volume 1, Drawing 266. Miscellaneous Drainage Schedule. This drawing contains the following revision (attached):

33.1. Revised schedule to eliminate S906.

Change #34 Contract Plans, Volume 1, Drawing 276. Drainage Plan. This drawing contains the following revision (attached):

34.1. Revised plan to eliminate S906.

Change #35 Contract Plans, Volume 1, Drawing 279. Drainage Profile - Median. This drawing contains the following revision (issued to successful Bidder):

35.1. Revised storm sewer profiles for P402 through P407.

Change #36 Contract Plans, Volume 1, Drawings 285 and 288. Drainage Profile – SB Shoulder. These drawings contain the following revision (issued to successful Bidder):

36.1. Revised storm sewer profiles in accordance with other changes included with this Addendum.

Change #37 Contract Plans, Volume 1, Drawing 293A. Drainage Details. This new drawing contains the following revision (attached):

37.1. Added slotted drain details and schedule.

Change #38 Contract Plans, Volume 2, Drawing 502. ITS Legend. This drawing contains the following revisions (attached):

38.1. Added legend item K for conduit attached to structure.

38.2. Updated pay item code for items A, B, C, E, E1, E2, F and G.

Change #39 Contract Plans, Volume 2, Drawing 504. ITS Summary of Quantities. This drawing contains the following revision (attached):

39.1. Revised quantity summary for conduit attached to structure.

Change #40 Contract Plans, Volume 2, Drawings 509 and 510. Proposed ITS Plans. These drawings contain the following revision (attached):

40.1. Added detail, notes and callouts for conduit attached to underside of proposed bridge over 87^{h} Street and Roberts Road.

Change #41 Contract Plans, Volume 2, Drawing 513. Proposed ITS Plans. This drawing contains the following revision (attached):

41.1. Deleted note 1.

Change #42 Contract Plans, Volume 3, Drawings 629, 631, 634 through 636. Substructure Removals. These drawings contain the following revision (attached):

42.1. Revised limits of substructure removal and pile removal.

Change #43 Contract Plans, Volume 3, Drawings 675 and 759. Steel Details. These drawings contain the following revision (issued to successful Bidder):

43.1. Revised select values in girder moment table and notes.

Change #44 Contract Plans, Volume 3, Drawing 763. Steel Details. This drawing contains the following revision (attached):

44.1. Revised details related to 4" dia. standard pipe for traffic signal equipment.

Change #45 Contract Plans, Volume 4, Drawings 880, 885, 888, 896, 905, 926, 927, 947, 952, 956, 960, 962, 963, 974, 982, 985, 1005, 1006, 1024, 1027, 1028, 1030, 1031, 1034, 1036, 1054, 1055. Retaining Walls. These drawings contain the following revision (issued to successful Bidder):

45.1. Revised bar callouts on plan and section views.

Change #46 Contract Plans, Volume 5, Drawings 1086 and 1088. Noise Abatement Wall TS17.60N,NB(R). These drawings contain the following revisions (attached):

46.1. Added note for optional panel sizes.

46.2. Added dimension for maximum height difference between proposed grades at front and back face of noise abatement wall.

Change #47 Contract Plans, Volume 5, Drawings 1092 through 1095. Noise Abatement Wall TS17.60N,SB(R). These drawings contain the following revision (attached):

47.1. Revised panels, schedules and quantities for noise abatement wall TS17.60N,SB(R).

Change #48 Contract Plans, Volume 5, Drawings 1098 through 1102. Noise Abatement Wall TS17.70N,SB. These drawings contain the following revision (attached):

48.1. Revised top of wall, schedules and quantities for noise abatement wall TS17.70N,SB.

Change #49 Contract Plans, Volume 5, Drawings 1112, 1114, 1115, 1117, 1118, 1120 through 1131. Noise Abatement Wall TS17.75N,SB. These drawings contain the following revisions (attached):

49.1. Revised top of wall elevations for first two sections and last section of noise abatement wall TS17.75N,SB.

49.2. Revised panels, schedules and quantities for all sections of noise abatement wall TS17.75N,SB.

Change #50 Contract Plans, Volume 5, Drawings 1147 and 1150. Noise Abatement Wall TS17.80N,NB. These drawings contain the following revisions (attached):

50.1. Added note for optional panel sizes.

50.2. Added dimension for maximum height difference between proposed grades at front and back face of noise abatement wall.

Change #51 Contract Plans, Volume 5, Drawings 1156 through 1160, 1162 through 1164. Noise Abatement Wall TS18.40N,NB. These drawings contain the following revision (attached):

51.1. Revised top of wall elevations, panels, schedules and quantities for sections of noise abatement wall TS18.40N,NB.

Change #52 Contract Plans, Volume 5, Drawings 1165 through 1168, 1170 through 1172. Noise Abatement Wall TS18.40N,SB. These drawings contain the following revision (attached):

52.1. Revised top of wall elevations, panels, schedules and quantities for sections of noise abatement wall TS18.40N,SB.

Change #53 Contract Plans, Volume 5, Drawings 1173 through 1178, 1180 through 1183. Noise Abatement Wall TS18.80N,NB. These drawings contain the following revision (attached):

53.1. Revised top of wall elevations, panels, schedules and quantities for sections of noise abatement wall TS18.80N,NB.

Change #54 Contract Plans, Volume 5, Drawings 1184 through 1188, 1190 through 1193. Noise Abatement Wall TS18.80N,SB. These drawings contain the following revision (attached):

54.1. Revised top of wall elevations, panels, schedules and quantities for sections of noise abatement wall TS18.80N,SB.

Change #55 Contract Plans, Volume 5, Drawings 1195 and 1198. Noise Abatement Wall TS19.10N,NB. These drawings contain the following revisions (attached):

55.1. Added note for optional panel sizes.

55.2. Added dimension for maximum height difference between proposed grades at front and back face of noise abatement wall.

Change #56 Contract Plans, Volume 5, Drawings 1209, 1211, 1212. Noise Abatement Wall TS19.10N,SB. These drawings contain the following revisions (attached):

56.1. Revised schedules and quantities for noise abatement wall TS19.10N,SB.

Change #57 Contract Plans, Volume 5, Drawings 1217 and 1225. Noise Abatement Wall TS19.20N,SB. These drawings contain the following revisions (attached):

57.1. Added note for optional panel sizes.

57.2. Added dimension for maximum height difference between proposed grades at front and back face of noise abatement wall.

Change #58 Contract Plans, Volume 7, Drawing 1574. Roberts Road and 87th Street Earthwork Schedule. This drawing contains the following revision (attached):

58.1. Revised earthwork schedule.

Change #59 Contract Plans, Volume 7, Drawings 1603 through 1605, 1607, 1608. Roberts Road and 87 h Street Removal Plan. These drawings contain the following revision (attached):

59.1. Added note providing reference to locations for topsoil striping for new pay item TOPSOIL EXCAVATION AND PLACEMENT, per Standard Specifications Section 211.

END OF ADDENDUM CHANGES

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,710		
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	1,774		
	20101000	TEMPORARY FENCE	FOOT	538		
	20101200	TREE ROOT PRUNING	EACH	12		
	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	8		
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	54		
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	54		
*	20200100	EARTH EXCAVATION	CU YD	144,322		
*	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5,575		
*	20400800	FURNISHED EXCAVATION	CU YD	6,677		
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	2,442		
	20800150	TRENCH BACKFILL	CU YD	21,078		
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	461		
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3,756		
	25000210	SEEDING, CLASS 2A	ACRE	0.8		
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	578		
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1,724		
	25100125	MULCH, METHOD 3	ACRE	0.8		
	25100630	EROSION CONTROL BLANKET	SQ YD	2,904		
	25200110	SODDING, SALT TOLERANT	SQ YD	4,043		

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CC	28000400	PERIMETER EROSION BARRIER	FOOT	667		
CC	28000510	INLET FILTERS	EACH	88		
CC	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	3,097		
CC	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	18,069		
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	3,514		
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	478		
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	389		
	35102100	AGGREGATE BASE COURSE, TYPE B 9"	SQ YD	8,080		
	35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	243		
CC	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	79		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	81		
CC	40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	53		
CC	40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,395		
CC	40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	140		
	42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	16,393		
	42001300	PROTECTIVE COAT	SQ YD	112,803		
	42101112	LUG SYSTEM COMPLETE 12'	EACH	2		
	42101424	LUG SYSTEM COMPLETE 24'	EACH	1		
	42101435	LUG SYSTEM COMPLETE 35'	EACH	1		

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	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	462		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	22,330		
	42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	1,878		
	44000100	PAVEMENT REMOVAL	SQ YD	96,682		
	44000169	HOT-MIX ASPHALT SURFACE REMOVAL, 5"	SQ YD	323		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,390		
	44000300	CURB REMOVAL	FOOT	355		
	44000400	GUTTER REMOVAL	FOOT	8,970		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4,605		
	44000600	SIDEWALK REMOVAL	SQ FT	15,742		
	44004000	PAVED DITCH REMOVAL	FOOT	122		
	44004250	PAVED SHOULDER REMOVAL	SQ YD	33,250		
	44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	26		
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		
	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		
	50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		
	50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1		
	50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1		
	50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1		

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	50100900	REMOVAL OF EXISTING STRUCTURES NO. 7	EACH	1		
	50104400	CONCRETE HEADWALL REMOVAL	EACH	39		
	50105220	PIPE CULVERT REMOVAL	FOOT	180		
	50157300	PROTECTIVE SHIELD	SQ YD	11,347		
	50200100	STRUCTURE EXCAVATION	CU YD	36,076		
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	1,458		
	50300225	CONCRETE STRUCTURES	CU YD	2,517.2		
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	2,479.6		
	50300300	PROTECTIVE COAT	SQ YD	36,776		
	50500505	STUD SHEAR CONNECTORS	EACH	29,249		
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,675,874		
	50800515	BAR SPLICERS	EACH	5,910		
	50800530	MECHANICAL SPLICERS	EACH	6		
	50901720	BICYCLE RAILING	FOOT	34		
	50901730	BRIDGE FENCE RAILING	FOOT	84		
	50901760	PIPE HANDRAIL	FOOT	67		
	51100100	SLOPE WALL 4 INCH	SQ YD	1,270		
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	14,962		
	51201900	FURNISHING STEEL PILES HP14X89	FOOT	13,116		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
	51202305	DRIVING PILES	FOOT	28,078		
	51203600	TEST PILE STEEL HP12X53	EACH	8		
	51203900	TEST PILE STEEL HP14X89	EACH	3		
	51204650	PILE SHOES	EACH	428		
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	97		
	52100520	ANCHOR BOLTS, 1"	EACH	176		
	52100560	ANCHOR BOLTS, 2"	EACH	128		
*	52200015	PERMANENT SHEET PILING	SQ FT	5,380		
	52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	43,712		
	52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	33		
	54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	294		
	54215979	REINFORCED CONCRETE PIPE ELBOW 24"	EACH	2		
	5421C018	PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY)	FOOT	30		
	54248510	CONCRETE COLLAR	CU YD	2		
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	39		
	542A1087	PIPE CULVERTS, CLASS A, TYPE 2 42"	FOOT	60		
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	465		
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	8		
	550A0190	STORM SEWERS, CLASS A, TYPE 1 48"	FOOT	267		

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	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	665		
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	4,734		
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	4,405		
	550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	281		
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	4,066		
	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	1,340		
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1,368		
	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	1,057		
	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	2,423		
	550A0490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	1,222		
	550A0660	STORM SEWERS, CLASS A, TYPE 3 15"	FOOT	33		
	550A0680	STORM SEWERS, CLASS A, TYPE 3 18"	FOOT	168		
	550A0730	STORM SEWERS, CLASS A, TYPE 3 30"	FOOT	388		
	550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	344		
	550A1090	STORM SEWERS, CLASS A, TYPE 4 54"	FOOT	14		
	550A4710	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	223		
	550A4900	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	161		
	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	11		
	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	FOOT	69		
*	55100300	STORM SEWER REMOVAL 8"	FOOT	174		
*	55100500	STORM SEWER REMOVAL 12"	FOOT	1,511		

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*	55100700	STORM SEWER REMOVAL 15"	FOOT	2,238		
*	55100900	STORM SEWER REMOVAL 18"	FOOT	2,153		
*	55101100	STORM SEWER REMOVAL 21"	FOOT	41		
*	55101200	STORM SEWER REMOVAL 24"	FOOT	1,053		
*	55101400	STORM SEWER REMOVAL 30"	FOOT	922		
*	55101600	STORM SEWER REMOVAL 36"	FOOT	1,446		
*	55101900	STORM SEWER REMOVAL 48"	FOOT	309		
*	55102000	STORM SEWER REMOVAL 54"	FOOT	960		
*	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	205		
	56400100	FIRE HYDRANTS TO BE MOVED	EACH	1		
CC	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	2		
	58700300	CONCRETE SEALER	SQ FT	19,889		
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	470		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	12		
	60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2		
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	5		
	60204505	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	5		
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	35		
BDE	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10		

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BDE	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5		
BDE	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11		
BDE	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		
BDE	60224457	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		
BDE	60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	1		
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2		
CC	60255410	CATCH BASINS TO BE CLEANED	EACH	2		
	60255500	MANHOLES TO BE ADJUSTED	EACH	17		
	60260100	INLETS TO BE ADJUSTED	EACH	1		
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1		
	60500040	REMOVING MANHOLES	EACH	30		
	60500050	REMOVING CATCH BASINS	EACH	72		
	60500060	REMOVING INLETS	EACH	35		
	60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	9		
	60600605	CONCRETE CURB, TYPE B	FOOT	129		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	68		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4,273		
	63200310	GUARDRAIL REMOVAL	FOOT	9,060		

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	64100120	SIGHT SCREEN (WOODEN FENCE), TYPE P 8'	FOOT	227		
*	66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	30,000		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	20		
*	66900535	PRIORITY POLLUTANTS GROUNDWATER ANALYSIS	EACH	30		
CC	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	100		
BDE	70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	850		
BDE	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	30,596		
BDE	70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	3,512		
BDE	70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	192		
	70600280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW), TEST LEVEL 3	EACH	16		
	70600290	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,WIDE), TEST LEVEL 3	EACH	1		
	70600370	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3	EACH	24		
	72000100	SIGN PANEL - TYPE 1	SQ FT	187		
	72000200	SIGN PANEL - TYPE 2	SQ FT	119		
	72000300	SIGN PANEL - TYPE 3	SQ FT	163		
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	18		
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	15		
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	114		
	72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	141		

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	72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1,088		
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	8		
	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	45		
	72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1,596		
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	50		
	73000100	WOOD SIGN SUPPORT	FOOT	192		
	73400100	CONCRETE FOUNDATIONS	CU YD	4.2		
	73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	4		
	73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	2		
	73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	10		
	78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	266		
	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	423,899		
	78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	30,844		
	78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	40,667		
	78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	4,330		
	78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	905		
	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	542		
	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8,600		
	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	4,000		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	700		
	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	240		
CC	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		
CC	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		
CC	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		
CC	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3,373		
CC	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1,168		
CC	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	691		
	81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	80		
CC	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	3,345		
CC	81100420	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	45		
CC	81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	160		
CC	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	73		
CC	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4		
CC	81400100	HANDHOLE	EACH	9		
CC	81400200	HEAVY-DUTY HANDHOLE	EACH	4		
CC	81400300	DOUBLE HANDHOLE	EACH	1		
	81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	200		
CC	81603051	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	403		

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CC	81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,190		
CC	81603176	UNIT DUCT, 600V, 6-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1,086		
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	9,095		
	81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	15,412		
CC	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	5		
CC	82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	36		
	82500320	LIGHTING CONTROLLER, POLE MOUNTED, 480VOLT, 60AMP	EACH	1		
	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		
	83006600	LIGHT POLE, ALUMINUM, 30 FT. M.H., 15 FT. MAST ARM	EACH	1		
CC	83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH	4		
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	47		
	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	5		
	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	30		
	84200804	REMOVAL OF POLE FOUNDATION	EACH	6		
CC	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2		
	84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	2		
	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2		
	84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		
CC	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		

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CC	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		
CC	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,200		
CC	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,360		
CC	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,235		
CC	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,000		
CC	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,700		
CC	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,625		
CC	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	200		
CC	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,400		
CC	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6		
CC	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		
CC	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		
CC	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24		
CC	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		
CC	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22		
CC	88000105	FLASHING BEACON INSTALLATION	EACH	2		

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CC	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8		
CC	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		
CC	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	10		
CC	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		
CC	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		
CC	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	13		
CC	88500100	INDUCTIVE LOOP DETECTOR	EACH	1		
CC	88600700	PREFORMED DETECTOR LOOP	FOOT	396		
CC	88700090	CONFIRMATION BEACON	EACH	7		
CC	88700200	LIGHT DETECTOR	EACH	7		
CC	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		
CC	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		
CC	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14,552		
CC	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		
	89502380	REMOVE EXISTING HANDHOLE	EACH	55		
CC	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		
CC	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		

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	C20058G4	SHRUB, RHUS AROMATICA GRO-LOW, (GRO- LOW SUMAC), CONTAINER GROWN, 3-GALLON	EACH	10		
	C2007224	SHRUB, ROSA KNOCKOUT (KNOCKOUT ROSE), 24" HEIGHT, CONTAINER	EACH	5		
	C2C00324	SHRUB, ARONIA MELANOCARPA IROQUOIS BEAUTY (IROQUOIS BEAUTY BLACK CHOKEBERRY), 2' HEIGHT, CONTAINER	EACH	8		
CC	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	29		
CC	K0036118	MULCH PLACEMENT 3"	SQ YD	51		
CC	K1001988	IRRIGATION SYSTEM SPECIAL	L SUM	1		
*	X0320374	PLUG EXISTING SANITARY SEWERS	EACH	1		
*	X0322400	PILE EXTRACTION	EACH	26		
*	X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	4		
*	X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	7		
*	X0322918	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	21		
*	X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1		
CC	X0323706	TRASH RECEPTACLE RELOCATION	EACH	1		
CC	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2,775		
*	X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	2		
*	X0326713	SANITARY SEWER CONNECTION	EACH	2		
CC	X0327727	PLANTER REMOVAL	L SUM	1		
CC	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	3,592		
CC	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,012		

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*	X0839900	SANITARY SEWER REMOVAL 6"	FOOT	15		
*	X0840000	SANITARY SEWER REMOVAL 8"	FOOT	53		
*	X1200192	FORCE MAIN, 16-DIP, CLASS 250	FOOT	510		
*	X1200221	NON-PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	1		
CC	X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1		
CC	X1400216	LAYER II (DATALINK) SWITCH	EACH	1		
*	X1400340	AERIAL CABLE REMOVAL	FOOT	4,493		
CC	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	7		
*	X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	1,908		
CC	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	140		
CC	X2600011	REMOVE AND RELOCATE SIGN PANEL	EACH	3		
*	X2600024	TEMPORARY WOOD POLE, 30 FT., CLASS 3	EACH	1		
CC	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	170		
*	X5010205	REMOVAL OF EXISTING STRUCTURE, SPECIAL	EACH	1		
GBSP	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	13,724		
GBSP	X5210130	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 300K	EACH	12		
GBSP	X5210140	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 350K	EACH	16		
GBSP	X5210245	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 1150K	EACH	10		
GBSP	X5210390	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 1000K	EACH	8		
*	X5427600	REMOVE AND RELOCATE END SECTIONS	EACH	1		
*	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	167		

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*	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	362		
*	X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	191		
*	X5538600	STORM SEWERS TO BE CLEANED 36"	FOOT	204		
*	X5538900	STORM SEWERS TO BE CLEANED 54"	FOOT	1,183		
*	X5610706	WATER MAIN REMOVAL, 6"	FOOT	153		
*	X5630006	CUT AND CAP EXISTING 6" WATER MAIN	EACH	1		
CC	X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1		
*	X6022858	MANHOLES, TYPE A, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		
*	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	1		
*	X6061460	PAVED DITCH (SPECIAL)	FOOT	50		
*	X6640525	CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE	FOOT	719		
CC	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		
BDE	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	14,886		
CC	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		
CC	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3,200		
CC	X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	28		
*	X8950077	REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1		

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*	XX007718	AIR RELEASE VALVE VAULT	EACH	1		
*	XX008829	REMOVAL AND DISPOSAL OF EXISTING FORCE MAIN	FOOT	518		
CC	Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	2		
*	Z0018010	DRAINAGE SCUPPERS, DS-33	EACH	13		
*	Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	4		
CC	Z0022800	FENCE REMOVAL	FOOT	179		
D1	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	207		
CC	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5		
CC	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12		
CC	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		
GBSP	Z0034393	MODULAR EXPANSION JOINT 9"	FOOT	95		
CC	Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	45		
CC	Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	424		
*	Z0044500	PRESSURE CONNECTION 6" X 6"	EACH	1		
GBSP	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	1,165		
CC	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	331		
CC	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	147		
*	Z0056800	SANITARY SEWER 6"	FOOT	15		
*	Z0056900	SANITARY SEWER 8"	FOOT	8		
CC	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		

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*	JI201100	TREE STUMP REMOVAL	EACH	116		
*	JI210100	GEOTECHNICAL FABRIC, SPECIAL	SQ YD	11,680		
*	JI211110	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	17,452		
*	JI211112	TOPSOIL EXCAVATION AND DISPOSAL	CU YD	11,205		
*	JI251010	EROSION CONTROL BLANKET, BIODEGRADABLE NETTING	SQ YD	136,004		
*	JI251015	HEAVY DUTY EROSION CONTROL BLANKET, BIODEGRADABLE NETTING	SQ YD	65,340		
*	JI282010	SUBGRADE FILTER FABRIC	SQ YD	137,834		
*	JI312022	STABILIZED SUBBASE – WMA, 3”	SQ YD	83,324		
*	JI312024	STABILIZED SUBBASE – WMA, 4”	SQ YD	3,436		
*	JI406035	TEST STRIP (STONE MATRIX ASPHALT)	EACH	1		
*	JI406037	MATERIAL TRANSFER DEVICE	TON	4,272		
*	JI406107	ASPHALT TACK COAT	POUND	32,543		
*	JI406900	CONSTRUCTING WARM MIX ASPHALT TEST STRIP	EACH	3		
*	JI420010	PORTLAND CEMENT CONCRETE PAVEMENT 12" (JOINTED)	SQ YD	626		
*	JI420022	PORTLAND CEMENT CONCRETE PAVEMENT 14" (JOINTED)	SQ YD	665		
*	JI420040	BRIDGE APPROACH SLAB	SQ YD	654		
*	JI420041	TRANSITION APPROACH SLAB	SQ YD	1,900		
*	JI420902	DRILL AND GROUT #6 TIE BARS, CRC PAVEMENT	EACH	709		
*	JI420905	CONCRETE PAVEMENT LONGITUDINAL JOINT SEALING	FOOT	3,540		

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*	JI421618	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 12"	SQ YD	35		
*	JI421620	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT – 13”	SQ YD	3,525		
*	JI440010	CONCRETE MEDIAN BARRIER AND BASE REMOVAL	FOOT	6,917		
*	JI440235	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	1,300		
*	JI440290	ASPHALT PATCHING OF MAINLINE OVERLAYS, 4"	SQ YD	1,300		
*	JI442135	CLASS D4 PATCHES, TYPE II, 4 INCHES	SQ YD	50		
*	JI451100	CRACK ROUTING (PAVEMENT)	FOOT	3,000		
*	JI451110	CRACK SEALING	POUND	1,000		
*	JI451160	CRACK FILLING	FOOT	1,500		
*	JI481070	AGGREGATE SHOULDERS SPECIAL, TYPE C	TON	312		
*	JI481130	AGGREGATE SHOULDERS WITH FILTER FABRIC, TYPE B 4"	SQ YD	8,815		
*	JI482104	WARM-MIX ASPHALT SHOULDERS (6 IN.)	SQ YD	636		
*	JI482128	WARM-MIX ASPHALT SHOULDERS, SPECIAL (9 IN.)	SQ YD	34,556		
*	JI485010	TEMPORARY PAVEMENT, CLASS 1	SQ YD	1,166		
*	JI485020	TEMPORARY PAVEMENT, CLASS 2	SQ YD	2,918		
*	JI503010	HIGH PERFORMANCE CONCRETE SUPERSTRUCTURE	CU YD	3,949.3		
*	JI503020	HIGH PERFORMANCE CONCRETE MOMENT SLAB STRUCTURES	CU YD	7,826.0		
*	JI505231	FURNISHING AND ERECTING STRUCTURAL STEEL NO. 1	L SUM	1		
*	JI505232	FURNISHING AND ERECTING STRUCTURAL STEEL NO. 2	L SUM	1		

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GBSP	JI521822	HIGH LOAD MULTI-ROTATIONAL BEARINGS, NON-GUIDED EXPANSION, 350K	EACH	16		
GBSP	JI521843	HIGH LOAD MULTI-ROTATIONAL BEARINGS, NON-GUIDED EXPANSION, 1250K	EACH	4		
GBSP	JI521870	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 1250K	EACH	4		
GBSP	JI521904	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED-1150K	EACH	6		
*	JI522500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	91,654		
*	JI522503	MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ FT	735		
*	JI550102	TEMPORARY STORM SEWER, CLASS A, 15"	FOOT	229		
*	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	FOOT	89		
*	JI551010	SLOTTED DRAIN REMOVAL	FOOT	6,920		
*	JI593030	ABANDON AND FILL EXISTING STORM SEWER	CU YD	70		
*	JI601300	PIPE UNDERDRAINS, 6" (SPECIAL)	FOOT	870		
*	JI601305	PIPE UNDERDRAINS, 8" (SPECIAL)	FOOT	185		
*	JI601320	PIPE UNDERDRAINS, FABRIC LINED TRENCH 6"	FOOT	11,196		
*	JI601325	PIPE UNDERDRAINS, FABRIC LINED TRENCH 8"	FOOT	3,263		
*	JI602120	CATCH BASINS, TYPE G-3, TYPE G-3 FRAME AND GRATE	EACH	5		
*	JI602183	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	9		
*	JI602184	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20A FRAME AND GRATE	EACH	79		
*	JI602185	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 20A FRAME AND GRATE	EACH	8		

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*	JI602190	CATCH BASINS, TYPE G-3 (MODIFIED), TYPE G-3 FRAME AND GRATE	EACH	35		
*	JI602206	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	2		
*	JI602230	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID (TEMPORARY)	EACH	1		
*	JI602235	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID (TEMPORARY)	EACH	12		
*	JI602310	MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY)	EACH	1		
*	JI602332	MANHOLE, TYPE A, 6 FT DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	2		
*	JI602335	MANHOLE, TYPE A, 6 FT DIAMETER, WITH ONE TYPE 20A FRAME AND GRATE	EACH	2		
*	JI602337	MANHOLE, TYPE A, 7 FT DIAMETER, TYPE G-3 FRAME AND GRATE	EACH	3		
*	JI602344	MANHOLE, TYPE A, 7 FT DIAMETER, TYPE 20A FRAME AND GRATE	EACH	2		
*	JI602350	MANHOLE, TYPE A, 8 FT DIAMETER, WITH TWO TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	3		
*	JI602362	MANHOLE, TYPE A, 9 FT DIAMETER, TYPE 20A FRAME AND GRATE	EACH	1		
*	JI602606	DRAINAGE STRUCTURES TO BE RECONSTRUCTED WITH TYPE 20A FRAME AND GRATE	EACH	4		
*	JI602740	DRAINAGE STRUCTURES, TYPE 4 WITH TWO TYPE 20A FRAME AND GRATE	EACH	20		
*	JI602745	DRAINAGE STRUCTURES, TYPE 5 WITH TWO TYPE 22A FRAME AND GRATE	EACH	1		
*	JI606010	GUTTER, TYPE G-2	FOOT	1,015		
*	JI606020	GUTTER, TYPE G-3	FOOT	5,550		
*	JI606050	CONCRETE GUTTER (SPECIAL)	FOOT	3,022		
*	JI630004	GALVANIZED STEEL PLATE BEAM GUARDRAIL,TYPE A, 9 FOOT POSTS	FOOT	950.0		
*	JI631110	TRAFFIC BARRIER TERMINAL, TYPE T1 (SPECIAL) TANGENT	EACH	1		

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*	JI637018	CONCRETE BARRIER BASE,VARIABLE HEIGHT (SPECIAL)	FOOT	151		
*	JI637030	CONCRETE BARRIER, SINGLE FACE, REINFORCED, 42 INCH	FOOT	25		
*	JI637032	CONCRETE BARRIER BASE FOR SINGLE FACE BARRIER, REINFORCED, 42 INCH	FOOT	25		
*	JI637302	CONCRETE BARRIER REMOVAL, SINGLE FACED REINFORCED	FOOT	2,911		
*	JI638010	TEMPORARY MODULAR GLARE SCREEN SYSTEM	FOOT	16,625		
*	JI642014	ASPHALT SHOULDER RUMBLE STRIP, 16 INCH	FOOT	17,835		
*	JI642020	CONCRETE SHOULDER RUMBLE STRIP	FOOT	323		
*	JI642030	MOMENT SLAB RUMBLE STRIP	FOOT	6,606		
*	JI664400	RIGHT OF WAY FENCE REMOVAL	FOOT	18,382		
*	JI664615	TEMPORARY CHAIN LINK FENCE 8' SCREENING, TYPE 1	FOOT	19,653		
*	JI664620	TEMPORARY CHAIN LINK FENCE 8' SCREENING, TYPE 2	FOOT	3,402		
*	JI667010	PERMANENT SURVEY MONUMENT	EACH	19		
*	JI669015	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DAY	60		
*	JI680007	HEADWALL TYPE I, 36"	EACH	1		
*	JI680010	HEADWALL TYPE II, 42"	EACH	2		
*	JI680020	HEADWALL TYPE III, 36", 1:4	EACH	1		
*	JI680021	HEADWALL TYPE III, 42", 1:4	EACH	1		
*	JI680022	HEADWALL TYPE III, 48", 1:4	EACH	2		
*	JI680025	HEADWALL TYPE III, 36", 1:6	EACH	1		

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MILEPOST 17.5 TO MILEPOST 19.7
SCHEDULE OF PRICES

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JI680027	HEADWALL TYPE III, 48", 1:6	EACH	1		
*	JI680028	HEADWALL TYPE III, 54", 1:6	EACH	1		
*	JI680070	HEADWALL TYPE III, 36", 1:3	EACH	2		
*	JI680073	HEADWALL TYPE III, 54", 1:3	EACH	1		
*	JI680123	SLOPED HEADWALL TYPE III, 18", 1:3	EACH	1		
*	JI680135	SLOPED HEADWALL TYPE III, 24", 1:4	EACH	2		
*	JI680137	SLOPED HEADWALL TYPE III, 30", 1:4	EACH	2		
*	JI680142	SLOPED HEADWALL TYPE III, 15", 1:6	EACH	2		
*	JI680143	SLOPED HEADWALL TYPE III, 18", 1:6	EACH	1		
*	JI680145	SLOPED HEADWALL TYPE III, 24", 1:6	EACH	2		
*	JI704000	TEMPORARY CONCRETE BARRIER,	FOOT	22,150		
*	JI704005	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	61,050		
*	JI724003	REMOVE SIGN PANEL ASSEMBLY, TYPE C	EACH	1		
*	JI728010	TELESCOPING STEEL SIGN SUPPORT, BARRIER ASSEMBLY	EACH	5		
	JI780145	EPOXY PAVEMENT MARKING - LINE 10"	FOOT	15,615		
*	JI782014	GUARDRAIL BARRIER REFLECTORS, TYPE B	EACH	88		
*	JI782022	BARRIER WALL REFLECTORS, TYPE C	EACH	2,664		
*	JI811276	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	55		
*	JI811280	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., STAINLESS STEEL	FOOT	80		

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JI811282	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., STAINLESS STEEL	FOOT	120		
*	JI811290	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., RIGID NONMETALLIC	FOOT	501		
*	JI821180	TEMPORARY LUMINAIRE, LED, HIGHMAST, HORIZONTAL MOUNT	EACH	52		
*	JI999712	CONNECT TO EXISTING FORCEMAIN	EACH	2		
**	JS107360	DUST CONTROL WATERING	UNIT	10,000		
**	JS120100	TRAILER MOUNTED FULL MATRIX PORTABLE CHANGEABLE MESSAGE SIGNS	EACH	10		
**	JS120300	SLOTTED PAVEMENT DRAIN (RETROFIT) (12 in.)	FOOT	1,662		
**	JS120310	SLOTTED PAVEMENT DRAIN (ORIGINAL) (12 in.)	FOOT	200		
**	JS120710	ENERGY ATTENUATOR	EACH	2		
**	JS120715	ENERGY ATTENUATOR CONCRETE PAD	SQ FT	253		
**	JS120720	ENERGY ATTENUATOR REMOVAL	EACH	2		
**	JS121200	LOW PRESSURE EPOXY INJECTION	FOOT	60		
**	JS213004	EXPLORATION TRENCH, UTLITIES (HAND EXCAVATION)	FOOT	1,500		
**	JS213006	EXPLORATION TRENCH, UTLITIES (VACUUM EXCAVATION)	FOOT	1,500		
**	JS250220	SEEDING, CLASS 2E	ACRE	2.9		
**	JS250314	SEEDING, CLASS 4B	ACRE	1.6		
**	JS250318	SEEDING, CLASS 4F	ACRE	14.3		
**	JS250320	SEEDING, CLASS 5	ACRE	14.3		
**	JS250324	SEEDING, CLASS 5B	ACRE	1.6		

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**	JS250350	SEEDING, CLASS 7	ACRE	22.5		
**	JS280020	MANAGEMENT OF EROSION AND SEDIMENT CONTROL	CAL. MO.	32		
**	JS280040	EROSION AND SEDIMENT CONTROL-CLEANOUT	CU YD	1,500		
**	JS280050	SILT FENCE	FOOT	6,818		
**	JS280051	RE-ERECT SILT FENCE	FOOT	966		
**	JS280070	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	2,967		
**	JS280100	SUPER SILT FENCE	FOOT	2,009		
**	JS280140	TEMPORARY RIPRAP	TON	1,354		
**	JS280151	SAME-DAY STABILIZATION	SQ YD	63,402		
**	JS280180	RECTANGULAR INLET PROTECTION	EACH	35		
**	JS280210	FILTER FABRIC INLET PROTECTION, BASKET TYPE	EACH	286		
**	JS280305	TEMPORARY DITCH CHECKS	FOOT	2,068		
*	JS503160	DIAMOND GRINDING AND SURFACE SMOOTHNESS FOR BRIDGE SECTIONS	SQ YD	16,639		
**	JS631120	TRAFFIC BARRIER TERMINAL, TYPE T2	EACH	1		
**	JS631130	TRAFFIC BARRIER TERMINAL, TYPE T6	EACH	1		
**	JS631135	TRAFFIC BARRIER TERMINAL, TYPE T6B	EACH	1		
**	JS664305	RIGHT-OF-WAY FENCE, TYPE 1, 6'	FOOT	18,474		
**	JS664310	CORNER POST, RIGHT-OF-WAY FENCE, TYPE 1	EACH	76		
**	JS664315	PULL POST, RIGHT-OF-WAY FENCE, TYPE 1	EACH	24		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
**	JS664320	END POST, RIGHT-OF-WAY FENCE, TYPE 1	EACH	15		
**	JS664325	PEDESTRIAN GATE, RIGHT-OF-WAY FENCE, TYPE 1	EACH	1		
**	JS664330	SINGLE VEHICLE GATE, RIGHT-OF-WAY FENCE, TYPE 1	EACH	6		
**	JS664335	DOUBLE VEHICLE GATE, RIGHT-OF-WAY FENCE, TYPE 1	EACH	19		
**	JS666010	RIGHT-OF-WAY MARKER	EACH	57		
*	JS670CSP	FIELD OFFICE, TYPE C (SPECIAL)	CAL MO	40		
**	JS671020	MOBILIZATION, TOLLWAY (MODIFIED)	L SUM	1		
*	JS701010	MAINTENANCE OF TRAFFIC	L SUM	1		
**	JS725000	TERMINAL MARKER - DIRECT APPLIED	EACH	1		
**	JS726020	MILEPOST MARKERS ASSEMBLY, BARRIER WALL MOUNTED	EACH	14		
**	JS726050	MILEPOST MARKER INSTALLATION	SQ FT	140		
**	JS733100	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM) (100 FT)	FOOT	400		
**	JS733105	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM) (105 FT)	FOOT	105		
**	JS733120	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM) (120 FT)	FOOT	120		
**	JS733220	SIGN STRUCTURE WALKWAY	FOOT	67		
**	JS733830	OVERHEAD SIGN STRUCTURE, SPAN TYPE (STEEL) (100 FT)	FOOT	100		
**	JS733B40	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL) (40 FT)	FOOT	40		
**	JS734A10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU YD	432		
**	JS734A12	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE, BUMP OUT	CU YD	210		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
**	JS734B10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE	CU YD	61		
**	JS734G10	FOUNDATION FOR ITS GANTRY FRAME	CU YD	287		
**	JS740110	ITS GANTRY FRAME (STEEL), SPANS LESS THAN OR EQUAL TO 110'	FOOT	409		
**	JS740130	ITS GANTRY FRAME (STEEL), SPANS GREATER THAN 110' AND LESS THAN OR EQUAL TO 130'	FOOT	340		
**	JS804100	ELECTRIC SERVICE INSTALLATION	EACH	2		
**	JS810832	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	610		
**	JS810833	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	957		
**	JS810837	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	200		
**	JS810839	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1,130		
**	JS810845	UNDERGROUND CONDUIT, PVC, 8" DIA.	FOOT	2,104		
**	JS810879	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	1,635		
**	JS811060	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	880		
**	JS812021	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	210		
**	JS812023	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	8,417		
**	JS812025	CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., PVC	FOOT	5		
**	JS812027	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	6,863		
**	JS812028	CONDUIT EMBEDDED IN STRUCTURE, 1 1/4" DIA., PVC	FOOT	15,274		
**	JS813001	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 20" X 12" X 8"	EACH	2		
**	JS813013	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 36" X 36" X 18"	EACH	2		
**	JS813016	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 36" X 36" X 10"	EACH	5		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
**	JS813055	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	49		
**	JS813073	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	9		
**	JS813080	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	8		
**	JS813095	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 12"	EACH	6		
**	JS813097	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 36" X 36" X 10"	EACH	9		
**	JS813098	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 48" X 36" X 18"	EACH	1		
**	JS814002	HEAVY-DUTY HANDHOLE, TOLLWAY	EACH	27		
**	JS816072	UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	390		
**	JS816076	UNIT DUCT, WITH 4-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	21,584		
**	JS817212	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	4,657		
**	JS817213	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	9,522		
**	JS817214	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	11,027		
**	JS817215	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	33,732		
**	JS817218	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	6,933		
**	JS817219	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4/0	FOOT	620		
**	JS817224	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500MCM	FOOT	3,735		
**	JS823001	SIGN STRUCTURE WIRING, OVERHEAD SIGN	EACH	4		
**	JS825004	LIGHTING CONTROLLER, 200 AMPERE	EACH	1		
**	JS828001	LIGHTING CONTROLLER FOUNDATION, TYPE A	EACH	1		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
**	JS830001	GROUND MOUNTED LIGHT POLE, ALUMINUM, 35 FT., 15 FT. MAST ARM	EACH	2		
**	JS830009	WALL MOUNTED LIGHT POLE, ALUMINUM, 35 FT., 12 FT. MAST ARM	EACH	1		
**	JS830030	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	4		
**	JS836001	LIGHT POLE FOUNDATION (ROADWAY) STEEL HELIX (7 FT) OR CONCRETE	EACH	39		
**	JS836005	LIGHT POLE FOUNDATION (ROADWAY) MEDIAN, TYPE 1	EACH	15		
**	JS836006	LIGHT POLE FOUNDATION (ROADWAY) MEDIAN, TYPE 2	EACH	15		
**	JS842080	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	23		
**	JS842085	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	46		
**	JS842105	POLE FOUNDATION, REMOVED	EACH	62		
**	JS845011	REMOVAL OF LIGHTING CONTROLLER	EACH	2		
**	JS845012	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	4		
**	JS845013	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2		
*	JT130751	INSTALL PREFABRICATED INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATION FACILITY	EACH	1		
*	JT130752	CONCRETE FOUNDATION, INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATION FACILITY	EACH	1		
*	JT130757	INSTALL ELECTRIC WORK, INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATION FACILITY, NO ITS	EACH	1		
*	JT131527	PLAZA ELECTRICAL WORK, LOCATION 1	L SUM	1		
*	JT132040	DYNAMIC MESSAGE SIGN - TYPE 1	EACH	1		
*	JT132050	DYNAMIC MESSAGE SIGN -TYPE 1 (TRAINING)	L SUM	1		
*	JT132060	DYNAMIC MESSAGE SIGN - TYPE 1 (SPARE PARTS)	EACH	1		

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JT132112	REMOVE DYNAMIC MESSAGE SIGN CONTROLLER FOUNDATION	EACH	1		
*	JT132120	REMOVE DYNAMIC MESSAGE SIGN - TYPE 2	EACH	1		
*	JT132621	DMS ELECTRICAL WORK - TYPE 1	EACH	1		
*	JT132830	FIBER OPTIC COMMUNICATIONS, ITS ASSEMBLY	EACH	5		
*	JT134000	MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS	L SUM	1		
*	JT134005	RELOCATE INTELLIGENT TRANSPORTATION SYSTEM ASSEMBLY	EACH	3		
*	JT134010	INTELLIGENT TRANSPORTATION SYSTEMS CABINET FOUNDATION	EACH	4		
*	JT134037	ITS ELEMENT SITE GROUNDING - POLE MOUNTED ASSEMBLY	EACH	1		
*	JT134048	ITS ELEMENT SITE GROUNDING - ATM EQUIPMENT CABINETS	EACH	4		
*	JT160000	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 4" DIA, RIGID NONMETALLIC	FOOT	1,200		
*	JT160002	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 5" DIA, RIGID NONMETALLIC	FOOT	20		
*	JT160004	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 6" DIA, RIGID NONMETALLIC	FOOT	860		
*	JT160006	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 8" DIA, RIGID NONMETALLIC	FOOT	2,840		
*	JT160099	HANDHOLE FOR SINGLE MODE FIBER OPTIC CABLE, TORSION ASSIST, 48"X72"X36"	EACH	36		
*	JT160109	HANDHOLE FOR SINGLE MODE FIBER OPTIC CABLE, TORSION ASSIST, 48"X72"X36", PLATFORM MOUNTED	EACH	17		
*	JT160149	CABLE MARKER SIGN WITH POST FOR ELECTRIC CABLE	EACH	2		
*	JT160217	LOCATE POST FOR FIBER OPTIC CABLE	EACH	31		
*	JT160218	CABLE MARKER WARNING SIGN, WITH POST, FOR FIBER OPTIC CABLE	EACH	4		
*	JT160219	CABLE MARKER WARNING SIGN FOR FIBER OPTIC CABLE	EACH	32		

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*	JT160225	SINGLE MODE FIBER OPTIC CABLE REMOVAL, SALVAGE	FOOT	43,770		
*	JT160251	HANDHOLE REMOVAL FOR SINGLE MODE FIBER OPTIC CABLE, NO SALVAGE	EACH	25		
*	JT160258	CABLE MARKER REMOVAL WITH POST FOR SINGLE MODE FIBER OPTIC CABLE, NO SALVAGE	EACH	24		
*	JT160266	WOOD POLE REMOVAL, NO SALVAGE	EACH	53		
*	JT160356	INSTALL TOLLWAY FURNISHED FIBER OPTIC CABLE, SINGLE MODE, ARMORED, 288 FIBERS	FOOT	11,211		
*	JT160372	INSTALL TOLLWAY FURNISHED FIBER OPTIC CABLE, SINGLE MODE, ARMORED, 48 FIBERS	FOOT	2,646		
*	JT160376	INSTALL TOLLWAY FURNISHED FIBER OPTIC CABLE, SINGLE MODE, ARMORED, 192 FIBERS	FOOT	10,861		
*	JT160378	INSTALL TOLLWAY FURNISHED FIBER OPTIC CABLE, SINGLE MODE, ARMORED, 240 FIBERS	FOOT	10,861		
*	JT160410	HOT DIPPED GALVANIZED STEEL CARRIER PIPE, 4 INCH, SCHEDULE 40	FOOT	157		
*	JT160420	HOT DIPPED GALVANIZED STEEL CARRIER PIPE, 8 INCH, SCHEDULE 40	FOOT	314		
*	JT160430	HOT DIPPED GALVANIZED STEEL SLEEVE, 6 INCH, SCHEDULE 40	FOOT	249		
*	JT160440	HOT DIPPED GALVANIZED STEEL SLEEVE, 10 INCH, SCHEDULE 40	FOOT	24		
**	JT190148	TRUCK MOUNTED ATTENUATOR	HOUR	110		
*	JT202009	NON-SPECIAL WASTE DISPOSAL, TYPE 1	CU YD	10,041		
*	JT210001	POROUS GRANULAR BACKFILL	CU YD	1,246		
*	JT211200	PREPARED TOPSOIL FURNISH AND PLACE, 8"	SQ YD	5,723		
*	JT211A08	SUBGRADE AGGREGATE 9 IN.	CU YD	1,021		
*	JT211A11	SUBGRADE AGGREGATE 12 IN.	CU YD	59,965		
*	JT280500	SEDIMENT FILTER BAG	EACH	30		

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*	JT280510	FLOC LOG	EACH	60		
*	JT280530	IN-LINE FLOCCULATION SYSTEM	EACH	6		
*	JT285055	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1	SQ YD	970		
*	JT301010	GRANULAR SUBBASE, SPECIAL	CU YD	138		
*	JT420104	JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT 11"	SQ YD	79,695		
*	JT421510	SLEEPER SLAB	SQ YD	191		
*	JT421600	LUG SYSTEM REMOVAL	CU YD	48		
*	JT421960	PAVEMENT REINFORCEMENT (12 IN.)	SQ YD	35		
*	JT421970	PAVEMENT REINFORCEMENT (13 IN.)	SQ YD	3,525		
*	JT440100	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE TRANSITION PAVEMENT REMOVAL	SQ YD	1,081		
*	JT485040	PROFILE DIAMOND GRINDING OF CONCRETE PAVEMENT	SQ YD	4,981		
*	JT503040	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 IN.)	SQ FT	180		
*	JT504100	PRECAST CONCRETE BRIDGE APPROACH SLABS	SQ FT	5,888		
*	JT504110	INSTALLATION OF BRIDGE APPROACH SLAB ANCHOR RODS	EACH	112		
*	JT512300	PILE CASING, CORRUGATED METAL PIPE, 24"	FOOT	1,832		
*	JT525125	BONDED PREFORMED JOINT SEAL, 2 IN.	FOOT	244		
*	JT525135	BONDED PREFORMED JOINT SEAL, 4 IN.	FOOT	197		
*	JT546200	SLOTTED DRAINS TO BE CLEANED	FOOT	7,043		
*	JT570P21	PERFORMANCE BASED RETAINING WALL, NO. 1	SQ FT	1,197		

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*	JT570P22	PERFORMANCE BASED RETAINING WALL, NO. 2	SQ FT	1,155		
*	JT595001	BRIDGE DRAINAGE SYSTEM, LOCATION NO. 1	L SUM	1		
*	JT595002	BRIDGE DRAINAGE SYSTEM, LOCATION NO. 2	L SUM	1		
*	JT599029	DECORATIVE CONCRETE PATTERN	EACH	3		
*	JT599040	REMOVAL OF EXISTING NOISE ABATEMENT WALL	SQ FT	282,235		
*	JT599910	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, NON-CRASHWORTHY	SQ FT	98,265		
*	JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ FT	163,480		
*	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ FT	43,492		
*	JT599P45	PERFORMANCE BASED NOISE ABATEMENT WALL (ACRYLIC) NO. 1	L SUM	1		
*	JT599P46	PERFORMANCE BASED NOISE ABATEMENT WALL (ACRYLIC) NO. 2	L SUM	1		
*	JT602300	MANHOLE, TYPE A, 6' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	8		
*	JT602330	MANHOLE, TYPE A, 7' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	5		
*	JT602335	MANHOLE, TYPE A, 9' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	2		
*	JT602400	MANHOLE, TYPE A, 10' DIAMETER, TYPE 8 GRATE (SPECIAL)	EACH	3		
*	JT637010	CONCRETE SHOULDER BARRIER TRANSITION, TYPE V-SF	FOOT	35		
*	JT637015	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF	FOOT	308		
*	JT637022	CONCRETE MEDIAN BARRIER TRANSITION, TYPE F	FOOT	20		
*	JT637023	CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-F	FOOT	103		
*	JT637036	CONCRETE MEDIAN BARRIER TRANSITION, SPECIAL	FOOT	120		

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*	JT637400	CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, 44 INCH	FOOT	120		
*	JT637401	BASE FOR CONCRETE BARRIER SINGLE FACE, REINFORCED TL-4, 44 INCH	FOOT	120		
*	JT637810	CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT	FOOT	6,459		
*	JT637811	BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT	FOOT	3,328		
*	JT637816	BASE FOR CONCRETE BARRIER DOUBLE FACE, TL-5, VARIABLE HEIGHT, 5 FEET	FOOT	2,982		
*	JT669030	EARTHWORK CONSTRUCTION PLAN	L SUM	1		
*	JT669040	EARTHWORK FINAL CONSTRUCTION REPORT	L SUM	1		
*	JT701011	MAINTENANCE OF TRAFFIC (SPECIAL)	L SUM	1		
*	JT701021	MAINTENANCE OF TRAFFIC, DAILY ONE LANE CLOSURE, STANDARD E2	EACH	4		
*	JT701026	MAINTENANCE OF TRAFFIC, DAILY TWO LANES CLOSURE, STANDARD E2	EACH	8		
*	JT701028	MAINTENANCE OF TRAFFIC, DAILY THREE LANES CLOSURE, STANDARD E2	EACH	12		
*	JT701030	SUPPLEMENTAL BARRICADE	EACH/DAY	3,500		
*	JT701031	SUPPLEMENTAL SIGNING	SQ FT	400		
*	JT701032	SUPPLEMENTAL FLASHING ARROW BOARD (PER DAY)	EACH/DAY	150		
*	JT701033	SUPPLEMENTAL FLASHING ARROW BOARD (PER WEEK)	EACH/WEEK	35		
*	JT701034	SUPPLEMENTAL FLASHING ARROW BOARD (PER MONTH)	EACH/MONTH	35		
*	JT701035	SUPPLEMENTAL MAINTENANCE OF TRAFFIC	DAY	30		
*	JT701050	TEMPORARY INFORMATION SIGNING-GROUND MOUNT, 24 SQ FT IN AREA OR LESS	SQ FT	123		
*	JT701052	TEMPORARY INFORMATION SIGNING-GROUND MOUNT, GREATER THAN 24 SQ FT IN AREA	SQ FT	1,708		

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JT701060	TEMPORARY INFORMATION SIGNING-OVERHEAD MOUNT, 24 SQ FT IN AREA OR LESS	SQ FT	70		
*	JT701250	TRAILER MOUNTED RADAR SPEED DISPLAY UNIT	CAL MO	50		
*	JT704040	EXISTING TEMPORARY CONCRETE BARRIER, REMOVED	FOOT	1,700		
*	JT720100	SIGN INSTALLATION, TYPE 1	SQ FT	5		
*	JT720110	SIGN INSTALLATION, TYPE 2	SQ FT	246		
*	JT720120	SIGN INSTALLATION, TYPE 3	SQ FT	3,918		
*	JT728020	STRUCTURAL STEEL SIGN SUPPORT, NOISE ABATEMENT WALL MOUNTED	EACH	8		
*	JT783001	PAVEMENT MARKING REMOVAL	SQ FT	28,456		
*	JT783005	WATERBLAST PAVEMENT MARKING REMOVAL WITH VACUUM RECOVERY	SQ FT	88,312		
*	JT810502	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 1 1/2" DIA.	FOOT	212,972		
*	JT810504	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 2" DIA.	FOOT	14,475		
*	JT810506	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 3" DIA.	FOOT	3,014		
*	JT810508	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 4" DIA.	FOOT	19,473		
*	JT810510	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 6" DIA.	FOOT	3,703		
*	JT810901	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 1-1/2" DIA., 24 COUNT	FOOT	7,586		
*	JT810911	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 4" DIA., 2 COUNT	FOOT	7,586		
*	JT813010	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE (SPECIAL), 32” X 12” X 8”	EACH	9		
*	JT821015	REMOVE AND REINSTALL SIGN LUMINAIRE	EACH	10		
*	JT821200	INSTALL LUMINAIRE, LED, HORIZONTAL MOUNT	EACH	128		

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JT821260	INSTALL SIGN LUMINAIRE, LED	EACH	11		
*	JT825025	TEMPORARY LIGHTING CONTROLLER, 480 VOLT, POLE MOUNTED	EACH	1		
*	JT830080	INSTALL GROUND MOUNTED LIGHT POLE, ALUMINUM, 50 FT., 15 FT MAST ARM	EACH	35		
*	JT830090	INSTALL WALL MOUNTED LIGHT POLE, ALUMINUM, 50 FT., 12 FT. MAST ARM	EACH	32		
*	JT830094	INSTALL WALL MOUNTED LIGHT POLE, ALUMINUM, 50 FT., TWO 6 FT. MAST ARM	EACH	29		
*	JT830200	INSTALL TEMPORARY WOOD POLE, 90 FT., CLASS 2, 15 FT. MAST ARM	EACH	52		
*	JT836027	ITS CONCRETE SERVICE PAD, TYPE A	EACH	1		
*	JT846110	MAINTAIN LIGHTING SYSTEM	CAL MO	37		
*	JT900082	PROTECTION FOR FIBER OPTIC CABLE	EACH	1		
*	JT900084	PROTECTION FOR ELECTRIC CABLE	EACH	2		
*	JT900202	TEMPORARY CONSTRUCTION FENCE	FOOT	6,000		
*	JT900518	EMBANKMENT MODIFICATION	SQ YD	38,541		
*	JT900580	CHEMICALLY STABILIZED SUBGRADE, 9"	SQ YD	137,834		
*	JT901056	LOCATOR TRACER WIRE	FOOT	8,730		
*	JT901057	LOCATOR TRACER WIRE, DIRECTIONAL BORE	FOOT	281		
					TOTAL AMOUNT OF CORE WORK	

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JT155001	CONTRACTOR'S QUALITY PROGRAM	L SUM	1	2,650,000.00	2,650,000.00
*	JT151500	CONTRACT ADJUSTMENT ALLOWANCE FOR TEMPERATURE CONTROL OF CONCRETE	UNIT	20,000	1.00	20,000.00
*	JT152000	CONTRACT SPECIFIED INCENTIVE PAYMENT	UNIT	1,176,000	1.00	1,176,000.00
*	JT154002	DISPOSAL OF UNIDENTIFIED HAZARDOUS WASTE	UNIT	150,000	1.00	150,000.00
*	JT154005	EMERGENCY PAVEMENT AND SHOULDER REPAIRS	UNIT	100,000	1.00	100,000.00
*	JT154008	UNFORESEEN ADDITIONAL MAINTENANCE OF TRAFFIC	UNIT	50,000	1.00	50,000.00
*	JT154015	ALLOWANCE FOR UNFORESEEN DRAINAGE WORK	UNIT	30,000	1.00	30,000.00
*	JT154023	CONTRACT ALLOWANCE FOR EROSION/LANDSCAPE RESTORATION	UNIT	10,000	1.00	10,000.00
*	JT154032	CONTRACT ALLOWANCE FOR ADDITIONAL ITS WORK	UNIT	20,000	1.00	20,000.00
*	JT154046	CONTRACT ALLOWANCE FOR SPECIAL NOISE ABATEMENT WALL	UNIT	4,300,000	1.00	4,300,000.00
*	JT154062	CONTRACT ALLOWANCE FOR MAINTAIN INTELLIGENT TRANSPORTATION SYSTEM REPAIR	UNIT	15,000	1.00	15,000.00
*	JT154067	CONTRACT ALLOWANCE FOR CONSTRUCTIONWORKS APPRENTICES	UNIT	100,000	1.00	100,000.00
*	JT154112	ALLOWANCE FOR ADDITIONAL ELECTRICAL AND COMMUNICATION WORK	UNIT	30,000	1.00	30,000.00
*	JT154116	ALLOWANCE FOR UTILITY LINE PROTECTION	UNIT	160,000	1.00	160,000.00
*	JT154118	ALLOWANCE FOR UNFORESEEN CONDITIONS	UNIT	25,000	1.00	25,000.00
*	JT154150	ALLOWANCE FOR STEEL COSTS ADJUSTMENT	UNIT	1,800,000	1.00	1,800,000.00
*	JT154160	ALLOWANCE FOR FUEL COSTS ADJUSTMENT	UNIT	170,000	1.00	170,000.00
*	JT154161	ALLOWANCE FOR BITUMINOUS MATERIALS COSTS ADJUSTMENT	UNIT	150,000	1.00	150,000.00
*	JT154194	ALLOWANCE FOR UNIDENTIFIED OBSTRUCTIONS	UNIT	40,000	1.00	40,000.00

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
*	JT154196	ALLOWANCE FOR ADDITIONAL MAINTENANCE OF TRAFFIC, LOCAL STREET	UNIT	20,000	1.00	20,000.00
	999NEG04	NON-COMPLIANCE WITH TOLLWAY MAINTENANCE OF TRAFFIC PER TOLLWAY SUPPL. SPEC. 701.08(a)	INC/DAY		(2,500.00)	
	999NEG05	FAILURE TO RESPOND TO RE-ESTABLISH DEVICES PER TOLLWAY SUPPL. SPEC. 701.08(b)	OCCUR		(2,500.00)	
	999NEG06	FAILURE TO REPAIR IMPACT ATTENUATORS, TEMPORARY PER TOLLWAY SUPPL. SPEC. 701.08(c)	OCCUR		(2,500.00)	
	999NEG07	LOSS OR DAMAGE TO TOLLWAY OWNED DEVICES PER TOLLWAY SUPPL. SPEC. 701.08(d)	SQ. FT.		(100.00)	
	999NEG08	FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC PER TOLLWAY SUPPL. SPEC. 701.08(e)(a)	15 MINUTES		(3,000.00)	
	999NEG09	FAILURE TO OPEN TRAFFIC LANES TO TRAFFIC PER TOLLWAY SUPPL. SPEC. 701.08(e)(b)	15 MINUTES		(5,000.00)	
	999NEG20	DAMAGES TO ILLINOIS TOLLWAY'S OPERATIONAL FACILITIES PER S.P. 115.5 - TRI-STATE	OCCUR		(10,000.00)	
	999NEG30	DAMAGES TO ILLINOIS TOLLWAY'S OPERATIONAL FACILITIES PER S.P. 115.5 - ALL ROADWAYS OFF-PEAK	OCCUR		(2,000.00)	
	999NEG31	DAMAGE TO ELECTRICAL FACILITIES PER TOLLWAY SUPPL. SPEC. 107.30(b)	INC/DAY		(1,000.00)	
	999NEG32	LIQUIDATED DAMAGES FOR DELAY IN SUBMITTAL OF PROGRESS SCHEDULE PER TOLLWAY SUPPL. SPEC. 108.02(e)	DAY		(300.00)	
	999NEG33	NON-COMPLIANCE WITH EROSION AND SEDIMENT CONTROL PER TOLLWAY SUPPL. SPEC 280.02 (b) (1)	INC/DAY		SEE NOTE 1	
	999NEG34	NON-COMPLIANCE WITH RESPONSIBILITY FOR CONSTRUCTION HAULING EQUIPMENT PER TOLLWAY SUPPL. SPEC. 105.15	DAY		(1,000.00)	
	999NEG35	FAILURE TO RESPOND TO REGULATORY AGENCY REQUESTS, PER TOLLWAY SUPPL. SPEC. 280.02 (b) (2)	OCCUR		(25,000.00)	
	999NEG36	FAILURE TO COMPLY WITH OCCUPANCY DATE OR PROVIDE COMPLETE FACILITIES. FIELD OFFICE OR LAB PER TOLLWAY SUPPL. SPEC. 670.01 (b)	DAY		(500.00)	
	999NEG37	NON-COMPLIANCE WITH TOLLWAY MAINTENANCE OF TRAFFIC PER TOLLWAY SUPPL. SPEC. 701.01 (b)(1)	INC/DAY		(2,500.00)	
	999NEG38	FAILURE TO RESPOND TO RE-ESTABLISH DEVICES PER TOLLWAY SUPPL. SPEC. 701.01 (b)(2)	OCCUR		(2,500.00)	
	999NEG39	FAILURE TO REPAIR IMPACT ATTENUATORS, TEMPORARY PER TOLLWAY SUPPL. SPEC. 701.01 (b)(3)	OCCUR		(2,500.00)	
	999NEG40	LOSS OR DAMAGE TO TOLLWAY OWNED DEVICES PER TOLLWAY SUPPL. SPEC. 701.01 (b)(4)	SQ. FT.		(100.00)	
	999NEG42	NON-COMPLIANCE WITH MAINTAIN LIGHTING SYSTEM, PER TOLLWAY SUPPL. SPEC. 846.06 (a)	INC/DAY		(1,000.00)	

S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
	999NEG43	FAILURE TO RESPOND TO MAINTAIN LIGHTING SYSTEM, PER TOLLWAY SUPPL. SPEC. 846.06 (b)	OCCUR		(1,000.00)	
	999NEG44	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.1	CAL DAY		(21,000.00)	
	999NEG45	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.2	CAL DAY		(21,000.00)	
	999NEG46	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.3	CAL DAY		(42,000.00)	
	999NEG47	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.4	CAL DAY		(5,000.00)	
	999NEG48	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.5	CAL DAY		(42,000.00)	
	999NEG49	DAMAGE TO FIBER OPTIC UTILITIES, PER S.P. 115.3	OCCUR		(10,000.00)	
	999NEG54	DAMAGE TO TOLLWAY MULTI-MODE CABLE, DMS SIGNS, CAMERAS,TELECOMMUNICATION,CABLE, ELECTRICAL,WATER and SEWER PER S.P. 115.4	OCCUR		(1,000.00)	
	999NEG60	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.6	CAL DAY		(5,000.00)	
	999NEG61	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.7	CAL DAY		(42,000.00)	
	999NEG62	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.8	CAL DAY		(42,000.00)	
	999NEG63	LIQUIDATED DAMAGES FOR NON-COMPLETION PER S.P. 105.1.9	CAL DAY		(5,000.00)	
	999NEG72	FAILURE TO RESPOND TO MAINTAIN ITS PER MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS SPECIAL PROVISION	OCCUR		(1,000.00)	
	999NEG73	NON-COMPLIANCE WITH ITS PER MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS SPECIAL PROVISION	OCCUR		(1,000.00)	
	999NEG74	FAILURE TO REPAIR TO MAINTAIN ITS PER MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS SPECIAL PROVISION	OCCUR		(1,000.00)	
	999NEG92	NON-COMPLIANCE WITH MAINTAIN LIGHTING SYSTEM SPECIAL PROVISION	OCCUR		(500.00)	
	999NEG93	FAILURE TO RESPOND TO MAINTAIN LIGHTING SYSTEM SPECIAL PROVISION	OCCUR		(500.00)	
ADJUSTMENTS						
	999ADJ20	PROTECTION METHOD I FOR CONCRETE IN SUBSTRUCTURES, CULVERTS, PUMP HOUSES AND RETAINING WALLS AS PER IDOT Article 503.22	CU YD		SEE NOTE 2	
	999ADJ21	PROTECTION METHOD II FOR CONCRETE IN SUBSTRUCTURES, CULVERTS, PUMP HOUSES, AND RETAINING WALLS AS PER IDOT Article 503.22	CU YD		SEE NOTE 2	
	999ADJ22	PROTECTION METHOD I FOR CONCRETE IN SUPERSTRUCTURES AS PER IDOT Article 503.22	CU YD		SEE NOTE 2	
	999ADJ23	PROTECTION METHOD II FOR CONCRETE IN SUPERSTRUCTURES AS PER IDOT Article 503.22	CU YD		SEE NOTE 2	

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S.P.	PAY ITEM NO.	DESIGNATION	UNIT	QUANTITY	UNIT PRICE DOLLAR	AMOUNT DOLLAR
	999ADJ24	PROTECTION METHODS I, II OR III FOR CONCRETE IN FOOTINGS AS PER IDOT Article 503.22	CU YD		SEE NOTE 2	
	999ADJ25	PROTECTION METHOD I FOR CONCRETE IN SLOPE WALLS AS PER IDOT Article 503.22	SQ YD		SEE NOTE 2	
	999ADJ45	CONSTRUCTIONWORKS APPRENCTICES WAGE RATE PAYMENT	HOUR		15.00	
	999POS12	COMPLETION INCENTIVE PAYMENT PLAN PER S.P. 105.2.3	CAL DAY		42,000.00	
	999POS13	COMPLETION INCENTIVE PAYMENT PLAN PER S.P. 105.2.4	CAL DAY		42,000.00	
AMOUNT OF CONTRACTOR'S QUALITY PROGRAM (CQP) + TOTAL AMOUNT OF CONTINGENCY WORK						11,016,000.00
TOTAL AMOUNT OF CORE WORK + AMOUNT OF CONTRACTOR'S QUALITY PROGRAM (CQP) + TOTAL AMOUNT OF CONTINGENCY WORK = TOTAL AMOUNT OF BASE BID						
BID CREDIT						
AWARD CRITERIA						

S.P. COLUMN LEGEND

* INDICATES SPECIAL PROVISION

** INDICATES TOLLWAY SUPPLEMENTAL SPECIFICATIONS

*** INDICATES IDOT SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

BDE INDICATES IDOT BDE SPECIAL PROVISION

GBSP INDICATES IDOT GBSP SPECIAL PROVISION

D1 INDICATES IDOT DISTRICT ONE SPECIAL PROVISION

CC INDICATES SPECIAL PROVISION FOR COOK COUNTY INTERSECTION IMPROVEMENTS

Note 1: The deduction will be according to Article 280.02(2)(1) Table A, The Contractor should leave the unit price value blank.
Note 2: The Contractor should leave the unit price value blank. The unit price will be entered by the Tollway after receipt of bids.

ILLINOIS STATE TOLL HIGHWAY AUTHORITY (ILLINOIS TOLLWAY)
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E4-07	MAINTENANCE OF TRAFFIC REVERSE CURVE
E5-09	TEMPORARY GORE DETAILS
E6-06	CONTRACTOR ACCESS TO WORK AREA
E7-05	PULL-OUT AREA
F1-10	OVERHEAD SIGN STRUCTURE SPAN TYPE STRUCTURE DETAILS
F4-10	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE STRUCTURE DETAILS
F8-07	OVERHEAD SIGN STRUCTURE SIGN AND LUMINAIRE SUPPORTS
F9-05	BREAKAWAY SIGN SUPPORT DETAILS
F10-03	MISCELLANEOUS DETAILS AND ALUMINUM SIGN PANELS
F11-06	MILEPOST MARKER
F17-05	OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) STRUCTURE DETAILS
F19-00	NOISE ABATEMENT WALL MOUNTED SIGN SUPPORT
F20-00	MEDIAN BARRIER MOUNTED SIGN SUPPORT
G12-01	STRUCTURE MOUNTED NOISE ABATEMENT WALL DETAILS
G13-01	CENRAL TRI-STATE STRUCTURE MOUNTED NOISE ABATEMENT WALL DETAILS
G14-01	CENTRAL TRI-STATE BUMP-OUT MOUNTED NOISE ABATEMENT WALL DETAILS
G15-01	NON-CRASHWORTHY GROUND MOUNTED NOISE ABATEMENT WALL DETAILS
G16-01	CRASHWORTHY GROUND MOUNTED NOISE ABATEMENT WALL DETAILS
H1-09	LIGHT STANDARD FOUNDATION
H2-08	LIGHT STANDARD DETAILS
H3-06	BRIDGE CONDUIT DETAILS
H4-04	HEAVY-DUTY HANDHOLE AND BURIED WIRING DETAILS
H5-05	SERVICE POLE AND PEDESTAL DETAILS
H6-06	EXTERIOR CONTROL CONSOLE DETAILS
H7-03	EXTERIOR CONTROL CONSOLE FOUNDATION DETAILS
H11-05	SPAN TYPE STRUCTURE SIGN LIGHTING DETAILS
H14-03	SIGN LUMINAIRE MOUNTING DETAIL AND WIRING DIAGRAM
H16-01	MAST ARM CABLE ASSEMBLY (TWIN MAST ARM)
H17-01	MAST ARM CABLE ASSEMBLY (SINGLE MAST ARM)
K1-09	TEMPORARY EROSION AND SEDIMENT CONTROLS AND LANDSCAPE
L1-02	FIBER OPTIC SYSTEM TYPICALS AND DRAWINGS
L2-01	FIBER OPTIC SPLICING DETAILS

Reference Permit Number 18-09-8329-C

The Contractor is required to execute permit forms and provide a bond to Cook County to secure a Highway Permit for access to the Cook County right-of-way for the purpose of performing the contract work. The bond shall be furnished in the amount of $20,000.00. The Contractor is required to meet all insurance requirements necessary for Cook County permits. For additional information:

https://www.cookcountyil.gov/service/construction-permits-online-payment

S.P. 106.3 COORDINATION WITH OTHER CONTRACTORS

The Contractor is advised that certain operations will involve cooperation with Illinois Tollway personnel and Contractors performing work on or adjacent to this contract for the Illinois Tollway. The Contractor shall cooperate to the fullest extent with the Illinois Tollway and the Contractors working on adjacent projects in compliance with the provisions of Article 105.08 of the Illinois Tollway Supplemental Specifications.

The following Illinois Tollway projects in the vicinity of Contract I-20-4517 may be under construction during the term of this Contract:

- I-18-4430 Roadway and Bridge Reconstruction, Northbound Mile Long Bridge Construction, Tri-State Tollway (I-294)
- I-18-4431 Roadway and Bridge Reconstruction, Bridge Demolition and Southbound Mile Long Bridge Construction, Tri-State Tollway (I-294)
- I-19-4481 Tri-State Tollway Roadway and Bridge Reconstruction, Archer Avenue (IL-171) Interchange
- I-19-4506 Tri-State Tollway Shoulder Rehabilitation and Traffic Crossover Construction, 95th Street to LaGrange Rd
- I-20-4518 Tri-State Tollway Roadway Reconstruction, Plazas 36 and 39 to LaGrange Rd
- I-20-4513 Tri-State Tollway Fiber Material Acquisition
- I-20-4542 Tri-State Tollway Permanent Lighting Material Acquisition
- I-19-4508 Tri-State Tollway Temporary Lighting Material Acquisition

The following Cook County projects in the vicinity of Contract I-20-4517 may be under construction during the term of this Contract:

- Section 19-B4224-00-BR, 87th Street Bridge over Baltimore & Ohio Chicago Terminal Railroad, Deck Replacement and Repairs
- Section 19-W3019-00-PV, 88th/Cork Avenue at I-294 Interchange, Roadway Reconstruction and Ramp Construction

The following IDOT projects in the vicinity of Contract I-20-4517 may be under construction during the term of this Contract:

- Harlem Avenue (IL-43) Roadway Resurfacing, 52nd Street to 111th Street
- Harlem Avenue (IL-43) at 95th St (US-20) Interchange Reconstruction
- LaGrange Road (US-12/20/45) Bridge over Santa Fe Drive, Sanitary & Ship Canal, I&M Canal and Illinois Central Railroad, Deck Replacement and Repairs

S.P. 106.4 COORDINATION WITH THE VILLAGE OF JUSTICE

For construction on or adjacent to any Village roadways, the Contractor will be required to contact the Village of Justice, as listed below, to notify them one week prior to construction of any work in or adjacent to their right of way or utilities.

Joe Cekus
8748 West 82nd Place
Justice, IL 60458

S.P. 106.5 COORDINATION WITH THE CITY OF HICKORY HILLS

The City of Hickory Hills should be notified 48-hours prior to any construction activity that could potentially cause damage to their existing infrastructure. A representative from the City of Hickory Hills should be present during these construction activities in order to quickly identify damage or breakage to the existing water main, request immediate shutdown of the construction operations, and properly isolate the damaged main.

The contractor should implement precautionary measures to reduce the potential for damage to the existing adjacent infrastructure within the area. Construction vehicles shall be prohibited from crossing the City of Hickory Hills water main except at designated crossings at existing access roads where the contractor shall utilize protection pads (land bridges) to ensure that construction traffic will not produce any live load that exerts pressure to soils surrounding the utility, or as approved by the engineer. Drawings, bearing pressure calculations and stress calculations shall be submitted to the Engineer for approval, a minimum of 21 days prior to applying any loadings to the utility. Any subsurface investigations necessary to generate the design submittal shall be coordinated in accordance with S.P. 106.

Sue Lehr
770 W 98th Street
Hickory Hills, IL 60457

S.P. 106.6 COORDINATION WITH THE VILLAGE OF BRIDGEVIEW

For construction on or adjacent to any Village roadways or sanitary sewers, the Contractor will be required to contact the Village of Bridgeview, as listed below, to notify them one week prior to construction of any work in or adjacent to their right of way or utilities.

Pat Barker
7500 S. Oketo Ave.
Bridgeview, IL 60455

work only within available right-of-way, and shall prepare revised Baseline Schedule(s) in compliance therewith as directed by the Engineer.

The final configuration of the Project Right-of-Way requires the acquisitions of several land parcels. This listing identifies these individual parcels and provides the acquisition status. The Contractor's bid proposal shall have been submitted with the understanding that access to the proposed right-of-way and easements will be provided no earlier that the date indicated in the "Projected Acquisition Date" column in the table below.

Parcel ID #	Projected Acquisition Date	Actual Acquisition Date
TW-3A-16-014	11/16/2020	
TW-3A-16-015	11/16/2020	
TW-3A-16-016	11/16/2020	
TW-3A-16-017	12/30/2020	
TW-3A-16-018	11/16/2020	
TW-3A-16-019	11/16/2020	
TW-3A-16-020	12/30/2020	
TW-3A-16-021	11/16/2020	
TW-3A-16-022	11/16/2020	
TW-3A-16-023	12/30/2020	
TW-3A-16-024	11/16/2020	
TW-3A-16-025	11/16/2020	
TW-3A-16-026	12/30/2020	
TW-3A-16-027	12/30/2020	
TW-3A-16-028	11/16/2020	
TW-3A-16-029	12/30/2020	
TW-3A-16-031	11/16/2020	
TW-3A-16-032	11/16/2020	
TW-3A-16-033	1/31/2021	
TW-3A-16-034	11/16/2020	
TW-3A-16-035	11/16/2020	
TW-3A-16-036		4/15/2019
TW-3A-16-038	11/16/2020	
TW-3A-16-039	11/16/2020	
TW-3A-16-042		11/20/2019
TW-3A-16-043	1/31/2021	
TW-3A-16-044	1/31/2021	
TW-3A-16-045	1/31/2021	
TW-3A-16-046	12/30/2020	
TW-3A-16-047	11/16/2020	
TW-3A-16-048	11/16/2020	
TW-3A-16-049	11/16/2020	

TW-3A-16-052	12/30/2020	
TW-3A-16-053	12/30/2020	
TW-3A-16-054	12/30/2020	
TW-3A-16-056	11/16/2020	
TW-3A-16-057	1/31/2021	
TW-3A-16-059	11/16/2020	
TW-3A-16-063	11/16/2020	
TW-3A-16-065		5/21/2019
TW-3A-16-066		6/10/2019
TW-3A-16-068		5/20/2019
TW-3A-16-069	11/16/2020	
TW-3A-16-070	11/16/2020	
TW-3A-16-071		1/9/2020
TW-3A-16-072		1/30/2020
TW-3A-16-078	11/16/2020	
TW-3A-16-081		12/12/2019
TW-3A-16-082	11/16/2020	
TW-3A-16-084	1/3/2023	
TW-3A-16-085	1/3/2023	
TW-3A-16-086	1/3/2023	
TW-3A-16-087	1/3/2023	
TW-3A-16-088	1/3/2023	
TW-3A-16-089	1/3/2023	
TW-3A-16-090	1/3/2023	
TW-3A-16-091	1/3/2023	
TW-3A-16-092	1/3/2023	

The Contractor is hereby advised that existing homes, billboards, sheds, and other permanent above-ground structures within the limits of the proposed ROW on the parcels listed above will be removed by others, unless noted otherwise on the plans.

However, the Illinois Tollway reserves the right not to issue the Notice to Proceed until sufficient right-of-way, as deemed by the Engineer, is available for commencement of the Work. In any event, there shall be no damages or additional compensation due to the Contractor for delays due to delay in furnishing the right-of-way, and the Contractor's sole remedy, where applicable, shall be an extension of time.

S.P. 119 AVAILABLE GEOTECHNICAL INFORMATION

The following is a listing of the geotechnical reports prepared by Geo Services, Inc. or GEI Consultants, Inc. that are available for review in the Illinois Tollway on-line plan room.

CONTRACT COMPLIANCE (Illinois Tollway)

Effective: June 19, 2020

The following Articles of the Illinois Tollway Supplemental Specifications are revised as follows.

Revise Article 107.01(e) and Article 107.01(f) to read as follows:

(e) DBE Utilization Program. The Illinois Tollway has instituted a best efforts affirmative action program to encourage Contractors to increase the participation of disadvantaged business enterprises (DBE) on Illinois Tollway projects. The Illinois Tollway's goals are set forth in the Proposal and the Special Provision for Disadvantage Business Enterprises Participation which is part of the Contract Documents. The Illinois Tollway encourages contractors to make a best effort to achieve the Illinois Tollway's goals. Contractors and subcontractors must meet their requirements and should contact the Tollway's Diversity Department during the life of the project if they experience challenges in meeting their DBE hiring goals. Documentation of their goals shall be in the form prescribed by the Diversity Department.

(f) Veteran Owned Small Business (VOSB) Program. A VOSB is a business certified by the State of Illinois Department of Central Management Services (CMS) as a Veteran-owned small business or Service-disabled Veteran-owned small business. The VOSB program is separate and distinct from the DBE program. A single firm may not participate in a single project as both a VOSB and DBE firm. The Illinois Tollway has created a Partnering for Growth Program and guidelines for Veteran Owned Small Businesses (VOSBs) and encourages firms providing professional services to review the Program requirements set forth in the Proposal and the Special Provision for Veterans Small Business Participation and Utilization Plan-Construction to assist the Illinois Tollway in achieving its goals. Contractors and subcontractors must meet their requirements and should contact the Tollway's Diversity Department during the life of the project if they experience challenges in meeting their VOSB hiring goals. Documentation of their goals shall be in the form prescribed by the Diversity Department.

Revise the first paragraph of Article 109.07 to read as follows:

At least once each month the Engineer will make an approximate estimate, in writing, of the materials in place and completed, the amount of work performed, and the value thereof, at the Contract unit prices. From the amount so determined there shall be deducted 10 percent to be retained until after the completion of the entire work to the satisfaction of the Engineer, and the balance certified to the Illinois Tollway for payment, except that no amount less than $500.00 will be so certified unless the total amount of the Contract is less the $500.00. Contractors and subcontractors are required to submit partial lien waivers for all pay estimate and retainage payment applications prior to contract completion, and final waivers of lien and sworn statements for final pay estimate and final retainage requests. Partial and final lien waivers and sworn statements in support of pay estimates and retainage release requests shall be uploaded through the B2gNow system, eliminating the need for the submission of paper documents. Payments to prime

contractors by the Illinois Tollway are automatically transferred into the B2gNow system no later than the 8 h of the month for the prior month. Prime contractors have until the 15th of the month to report payments they made to their subcontractors; and subcontractors have until the 25th of the month to confirm payments the prime contractors reported for them. Contractor and subcontractor waivers of lien will be allowed to trail for a maximum of sixty (60) days if necessary. Otherwise waivers of lien and sworn statements are submitted with each pay estimate or retainage release request through the B2gNow system. Notwithstanding the above, after 50 percent or more of The Work is completed, the remaining partial payments will be made without any further retention, provided that satisfactory progress is being made in accordance with the Contract requirements and continues to be made, and provided that the amount retained shall not, at any time, be less than 5 percent of the adjusted Contract Award Amount. If at any time, satisfactory progress is not being made in accordance with the Contract requirements, the Chief Engineering Officer may in his sole discretion, require 10 percent of the amount earned to date to be retained until after the completion of the entire work to the satisfaction of the Engineer or until satisfactory progress is made in accordance with the Contract requirements.

Revise Article 109.08(d) to read as follows:

(d)Final Payment Documents. Before final payment is made as provided in Article 109.08, the Contractor shall furnish the Illinois Tollway with the following final payment documents, which forms shall be provided to the Contractor by the Illinois Tollway or submitted through B2gNow:

Consent of Surety to Final Payment

Contractor's Affidavit

Contractors Verified Certificate

Final Waiver of Lien (submitted through B2gNow system)

Guarantee Against Defective Work

Release and Waiver (submitted throughB2gNow system)

The Consent of Surety to Final Payment, Release and Waiver and Guarantee Against Defective Work shall be signed by the Contractor and by a surety satisfactory to the Illinois Tollway.

EARTH AND ROCK EXCAVATION (CTS)
Effective: October 29, 2012
Revised: May 26, 2020

Description. This work shall consist of the excavation and transportation of suitable excavated material to embankment locations throughout the limits of the contract, or the excavation, transportation, and disposal of excavated material according to Section 202 of the Standard Specifications except as modified herein. This work also includes the placement of material at embankment locations in accordance with the Illinois Tollway Special Provision for "Embankment". This work does not include excavation for structures or channel excavation.

Revise Article 202.03 of the Standard Specifications to read:

"202.03 Removal and Disposal of Surplus, Unsuitable Materials, and Organic Waste. Suitable excavated materials of any moisture content shall not be wasted without permission of the Engineer. The Contractor shall dispose of all surplus, unsuitable materials, and organic waste, in such a manner that public or private property will not be damaged or endangered. Suitable but excessively moist excavated materials if used for embankment may be treated in accordance with the Illinois Tollway Special Provision for "Embankment" to obtain the specified compaction levels.

Suitable earth, stones and boulders naturally occurring within the right-of-way may be placed in fills or embankments in lifts and compacted according to Section 205. Reclaimed Asphalt Pavement (RAP) with no expansive aggregate (such as steel slag or blast furnace slag), or uncontaminated dirt and sand generated from construction or demolition activities may be used in embankment or in fill at the approval of the Engineer. RAP shall be utilized in accordance with the Tollway Special Provision for Reclaimed Asphalt Materials (RAM). In areas supporting roadway pavement and structures, the placement of reclaimed asphalt pavement shall only be allowed when ambient air temperature is 40°F and rising. If used in fills or embankments, these materials shall be processed, placed and compacted to the satisfaction of the Engineer; shall be buried under a minimum of 3 feet of earth cover (except when the materials include only uncontaminated dirt); and shall not create an unsightly appearance or detract from the natural topographic features of an area. No material will be allowed for reuse within Tollway right-of-way outside contract limits without prior approval from the Tollway in accordance with Article 107.22 of the Supplemental Specifications.

Excavated Soils are classified for disposal and are also classified for reuse or non-reuse in accordance with the Illinois Tollway Special Provision Disposal of Regulated Substances and Uncontaminated Soils. Soils approved for reuse may be used for Embankment. Aside from the materials listed above, all other construction and demolition debris or waste shall be disposed of in a licensed landfill or otherwise disposed of as allowed by State or Federal laws and regulations.

Organic waste originating within the right-of-way limits may be chipped or shredded and placed as mulch around landscape plantings within the right-of-way when approved by the Engineer. Chipped or shredded material to be placed as mulch shall not exceed a depth of 6 inches.

When the Contractor proposes to dispose of uncontaminated surplus excavated

material off the right-of-way, the Contractor shall obtain and file with the Engineer permission in writing, from the property owner, for the use of the property for this purpose. The approval of the proposed disposal site shall be according to Article 107.22 of the Illinois Tollway Supplemental Specifications. Any such disposal shall not create an unsightly or objectionable appearance or detract from the natural topographic features, nor be placed at an elevation higher than that of the adjacent roadway without permission from the Engineer.

A volume of excavated material from sewer trenches, electrical or ITS trenches, drainage structures, or other underground construction is shown on the plans for information. At the approval of the Engineer, this material may be placed within the right-of-way according to the Illinois Tollway Special Provision for "Embankment". Reuse of excavated material from trenches and drainage, electrical, or fiber structures or other underground construction is classified in accordance with the Illinois Tollway Special Provision for "Disposal of Regulated Substances and Uncontaminated Soil".

If unsuitable material is present at or below the finished grade, it shall be removed and replaced with suitable material as directed by the Engineer. Unsuitable material is any excavated material that does not qualify as Zone A or Zone B embankment according to the Illinois Tollway Special Provision for Embankment."

Revise the first paragraph of Article 202.07(b) to read as follows:

"(b) Measured Quantities. Earth and rock excavation will be measured in their original positions, and the volumes in cubic yards computed by the method of average end areas. The volume of any unsuitable material removed will be measured for payment in cubic yards."

Revise the second paragraph of Article 202.08 to read as follows:

"Removal and disposal of unsuitable material will be paid for at the contract unit price per cubic yard for REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

Revise the fourth paragraph of Article 202.08 to read as follows:

"When the contract does not contain a pay item for removal and disposal of unsuitable material, hazardous waste, or non-special waste disposal (Type 1) and the item is required, it will be paid for according to Article 109.04 of the Illinois Tollway Supplemental Specifications."

Pay Item Number	Designation	Unit of Measure
20200100	EARTH EXCAVATION	CU YD
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD

DRAINAGE STRUCTURES FOR STORM SEWER SYSTEMS

Description. This work shall consist of constructing catch basins, manholes, inlets, and drainage structures, together with the necessary cast iron frames and grates or lids, as shown in the Plans or as indicated by the Engineer.

Materials. Materials shall be in accordance with Article 602.02 of the Standard Specifications. The Contractor shall have the option to furnish pre-cast concrete structural elements in accordance with Section 504 of the Standard Specifications, subject to the prior written approval of the Engineer and as noted in the Plans. Shop drawings shall be submitted to the Engineer. The design shall be approved by the Engineer prior to fabrication, construction, or installation.

Construction Requirements. This work shall be completed in accordance with applicable portions of Section 602 of the Standard Specifications, applicable Tollway Standard Drawings, applicable IDOT Highway Standards, and as specified herein. Construction shall conform to Details shown in the Plans, and shall be in accordance with Articles 602.04 and/or 602.07 of the Standard Specifications.

All drainage structures, inlets, manholes, and catch basins shall have a minimum two-foot deep sump between the bottom of the lowest storm sewer invert and the floor of the bottom of the drainage structure, inlet, manhole, junction box or catch basin, unless noted otherwise on the plans.

Method of Measurement. This work will be measured for payment, in place, in units of each, for the various structure types.

Basis of Payment. This work will be paid at the Contract unit price per each of the structure type and frame and grate or lid specified.

Pay Item Number	Designation	Unit of Measure
JI602120	CATCH BASINS, TYPE G-3, TYPE G-3 FRAME AND GRATE	EACH
JI602183	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE G-3 FRAME AND GRATE	EACH
JI602184	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20A FRAME AND GRATE	EACH
JI602185	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 20A FRAME AND GRATE	EACH
JI602190	CATCH BASIN, TYPE G-3 (MODIFIED), TYPE G-3 FRAME AND GRATE	EACH
JI602206	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE G-3 FRAME AND GRATE	EACH

ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION

Description. This Special Provision establishes a budgetary allowance for construction of structure-mounted noise abatement walls to heights taller than the maximum allowable height by the Illinois Tollway Standard Drawings for Structure-Mounted Noise Abatement Walls.

The work to be completed under this item will be as detailed in the plans issued by a construction revision to be issued prior to Notice to Proceed. This item will provide a line item against which payment will be made since the scope cannot be fully determined at the time of submittal of the Proposal.

Payment under this allowance will be made for entire wall sections that are constructed to heights greater than the maximum height allowed by the Illinois Tollway Standard Drawings for Structure-Mounted Noise Abatement Walls.

Method of Measurement. This work will not be measured for payment.

Basis of Payment. Payment for this work will be made as specified in Illinois Tollway Supplemental Specifications Article 109.04.

Pay Item Number	Designation	Unit of Measure
JT154046	CONTRACT ALLOWANCE FOR SPECIAL NOISE ABATEMENT WALL	UNIT

PRECAST CONCRETE NOISE ABATEMENT WALL (Illinois Tollway GBSP)

Effective March 30, 2020
Revised July 14, 2020

DESCRIPTION. This work shall consist of the furnishing all material, labor, and equipment necessary to construct a Precast Concrete Noise Abatement Wall at the locations and to the heightslocations, heights, and lengths and details as shown in the Contract Plans, in accordance with the Special Provisions, and the Standard Specifications. The Precast Concrete Noise Abatement Wall type shall be ground mounted, structure mounted, and/or crashworthy ground mounted at the locations shown in the Contract Plans, as described in this Special Provision, and as accepted by the Engineer.

This work shall include the submittal of Shop Drawings,and Working Drawings, erection plans, and furnishing all materials, testing, warranties, labor to fabricate, store and install precast concrete noise abatement wall panels, noise abatement wall posts and assembly accessories as shown in the Contract Plans.

REFERENCED STANDARDS. In addition to the Illinois Department of Transportation Standard Specifications and Supplemental Specifications (latest edition), the following specifications and standards shall govern the fabrication, storage and construction of Precast Concrete Noise Abatement Walls.

The standards and specifications shall be the latest edition as revised to the date of the Advertisement for Bids.

1. AASHTO LRFD Bridge Design Specifications, 8th Edition Dated September 2017.

2. AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing.

3. Illinois Department of Transportation All Geotechnical Manual User Memo 11.1: Light Tower, Traffic Signal, Sign Structure Foundation Design, September 2011.

4. Underwriters Laboratories, Inc. (UL):
    a. Building Materials Directory

5. International Conference of Building Officials (ICBO)

6. International Building Code (IBC), 2018 or latest edition, and State of Illinois amendments, referred to herein as Building Code.

7. United States Department of Transportation (USDOT), Federal Highway Administration (FHA).
    a. Noise Barrier Design Handbook (Report No. FHWA-RD-76-58).

8. National Co-operative Highway Research Program Report 350. (Crashworthiness of Noise Abatement Walls in the roadway clear zone).

9. Precast Prestressed Concrete Institute (PCI) Design Handbook, 8th Edition.

10. Standards promulgated by the ASTM International (ASTM), including item C33, Specification for Concrete Aggregates.

11. Interim Guidelines for the Use of Self Consolidating Concrete in PCI Members (PCI).

12. Illinois Tollway Structure Design Manual, Latest Edition.

Should a conflict occur between the Standard Specifications and another requirement, the Standard Specifications shall govern.

GENERAL REQUIREMENTS. This work shall consist of the design, preparation and submittal of shop drawings (excluding structural calculations), furnishing of all materials, and constructing and installing precast concrete noise abatement wall panels and steel posts and assembly accessories at the locations shown on the Contract Plans. The Contractor's erection plans shall be per the applicable requirements of the Illinois Tollway special provision for "Erection of Girders" and include any special erection requirements from the panel or post supplier.

The Contractor shall verify the location of all existing utilities and structures and shall take all necessary precautions to perform the work in such a manner as to not damage existing utilities or structures, located near or beneath the noise abatement walls. Any damage to existing utilities or structures shall be repaired at no additional cost to the Illinois Tollway.

MATERIALS

Concrete for Drilled Shaft. Concrete in the drilled shaft for the noise abatement wall post shall be in accordance with Section 516.02 of the Standard Specifications.

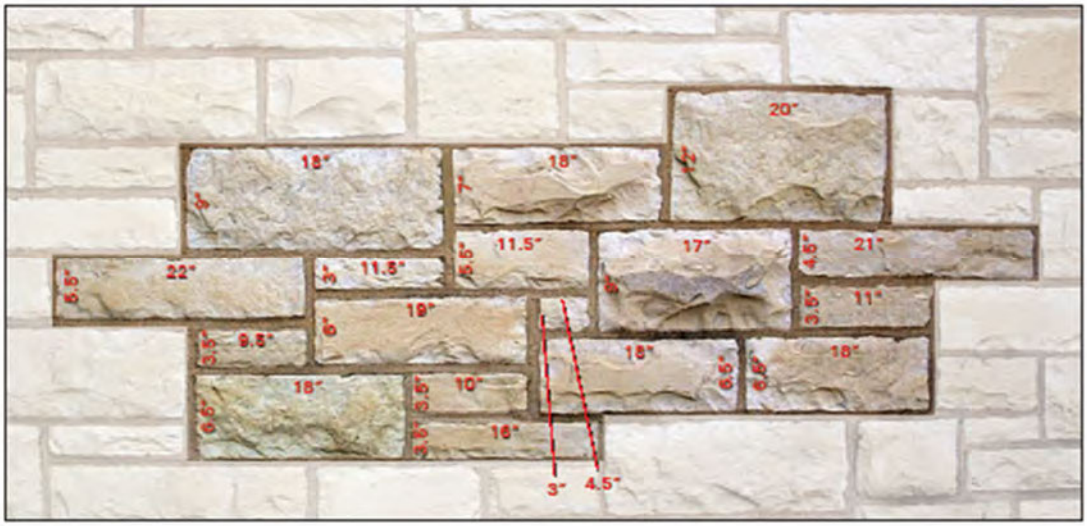
Precast Concrete Panels and Form Liner. Concrete for Precast Concrete Noise Abatement Wall Panels shall conform to the requirements of the applicable portions of Section 1020 of the Standard Specifications. Manufacturer's specifications and mix designs shall be submitted for approval to the Engineer prior to casting Precast Concrete Noise Abatement Wall Panels.

1. The concrete for Precast Concrete Noise Abatement Wall Panels shall be Class PC Portland cement, with a minimum compressive strength of 5,000 psi at 28 days age.

2. The curing methods shall be compatible with the desired aesthetic results.

3. The form liner used to create the random ashlar limestone pattern shall be of high quality and capable of withstanding anticipated concrete pour pressures without causing leakage or causing physical defects. The liner shall be made from high-strength elastomeric urethane material which shall not compress more than 0.02 feet when poured at a rate of 10 vertical feet per hour. The form release agents shall be non-staining, non-residual, and non-reactive.

Precast Concrete Noise Abatement Wall Random Ashlar Limestone Form Liner Pattern.



The Precast Concrete Noise Abatement Wall Panels shall be constructed with a square cut random ashlar rusticated limestone surface with a maximum relief along each side as shown on the details. The panel(s) height selected by the Fabricator should be compatible with Random Ashlar Limestone Form Liner Pattern.

For ground-mounted walls, the maximum architectural aesthetic surface treatment thickness along one side cannot exceed 1½ inches. The relief, on each side of precast concrete panel, is permitted to vary from 0 to 1½ inches, but the total architectural relief thickness, on both sides of the precast concrete panel, must not be greater than 3 inches.

For structure-mounted walls, the maximum architectural aesthetic surface treatment thickness along one side cannot exceed ¾ inches. The relief, on each side of precast concrete panel, is permitted to vary from 0 to ¾ inches, but the total architectural relief thickness, on both sides of the precast concrete panel, must not be greater than 1½ inches.

Angular distortion with regards to panel squareness, defines as the difference between the two diagonals, shall not exceed ½ in. Panel dimensions shall be within ¼ in. all hardware embedded in panels shall be within ¼ in.

The Random Ashlar Limestone pattern shall be continuous for the full height of a wall section, regardless of the number of panels in a wall section. All exposed concrete edges shall have a ¾" chamfer except at horizontal edges between successive panels.

Reinforcing Steel and Welded Wire Fabric. Reinforcing steel shall be in accordance with Article 1006.10 of the Standard Specifications and shall meet the requirements of ASTM A706, Grade 60. Welded wire fabric shall be in accordance with Article 1006.10 of the Standard Specifications.

Structural Steel. Unless otherwise specified, structural steel shall conform to ASTM A709 (ASSHTO M 270) Grade 36, and as specified in Article 1006.04 of the Standard Specifications. Structural steel exposed to weathering shall be hot-dip galvanized in accordance with ASTM A 123 (AASHTO M 111). Weathering Steel (ASTM A588) is not

permitted. Before galvanizing, all surfaces shall be blasted clean as specified in Standard Specification Section 506.07. Grind all cut edges.

Unless otherwise specified, structural steel for attachments and inserts shall conform to ASTM A709 (ASSHTO M 270) Grade 36, or Grade 50, and as specified in Article 1006.04 of the Standard Specifications. Embedded steel for the bottom panel bearing plate shall be hot-dip galvanized in accordance with ASTM A153 (AASHTO M 232).

Lifting Inserts. Lifting inserts shall be galvanized steel and as shown on the Plans or approved equal.

Fire Hydrant Access Door. Fire Hydrant Access Door shall be located per the Plans and shall be Halliday Product Series S1R2424 or an approved equal. The doors shall be modified to include a slam lock to keep the door flush with the Precast Concrete Noise Abatement Wall while closed. The doors and frames shall be galvanized and painted using an Illinois Tollway approved two-coat paint system manufactured by IDOT approved producers. The first coat shall be epoxy polyamide meeting the requirements of Article 1008.05 (d) of the Standard Specifications. The second (final) coat shall be aliphatic urethane meeting the requirements of Article 1008.05 (e) of the Standard Specifications, except the color shall match the color of the precast concrete panel stain Sherwin-Williams 7633, Taupe Tone 248-C4 (#ADA090 Hex Color Code).

Stain & Sealer. For precast concrete panels, a concrete stain and sealer shall be provided and applied to replicate stone with sealer. The base stain color of panels shall match Sherwin-Williams 7633, Taupe Tone 248-C4 (#ADA090 Hex Color Code).

Stains shall be water-based acrylic stain. The staining products must be compatible with the surface sealing coating specified. The Illinois Tollway may waive the requirement of a separate sealing product if the staining product also meets the performance requirements of the sealing product. The sealer shall meet the requirements of Section 1026 of the Standard Specifications except the sealer shall have a clear color when dry.

Penetrating concrete stain mix, shall achieve color variations present in the natural stone being simulated for this project. Stain shall create a surface that is breathable (allowing water vapor transmission), and that resists deterioration from water, acid, alkali, fungi, sunlight, or weathering. Stain mix shall be a waterborne, low V.O.C. material, less than 1.5 lbs./gal., and shall meet requirements for weathering resistance of 2000 hours accelerated exposure.

Store paint, stain, sealer material in an area where temperatures will not be less than 50°F or more than 100°F in accordance with OSHA and local Fire Code requirements.

Galvanizing. Precast Concrete Noise Abatement Wall structural steel including steel posts, and attachments that are exposed to weathering shall be hot-dip galvanized in accordance with ASTM A123 (AASHTO M111). Structural steel and post assemblies shall be hot-dip galvanized after fabrication including the attachment of angles, stiffeners, or bent plates. All high-strength bolts and other connectors shall be galvanized according to Standard Specification Section 1006.08.

Paint. All galvanized Precast Concrete Noise Abatement Wall structural steel, posts and attachments shall be painted using an approved two-coat paint system manufactured by

IDOT approved producers. The first coat shall be epoxy polyamide meeting the requirements of Article 1008.05 (d) of the Standard Specifications. The second (final) coat shall be aliphatic urethane meeting the requirements of Article 1008.05 (e) of the Standard Specifications, the color shall match the color of the precast concrete panel stain Sherwin-Williams 7633, Taupe Tone 248-C4 (#ADA090 Hex Color Code).

The paint system shall be applied according to the applicable portions of Section 506 and the paint manufacturer's recommendations.

Anchor Bolts, Nuts, Washers. Anchor Bolts shall be cast in place as shown on the Plans and follow the requirements of Standard Specification Section 1006.09. Washers and Nuts shall match the hardness of the Anchor Bolts.

Elastomeric Material. Fabric Reinforced Elastomeric Sheeting shall be per Section 1028 of the Standard Specification. The Fabric Bearing Pads shall be per Section 1082 of the Standard Specifications and the pad shall be installed after steel post assembly has been galvanized and painted. Adhesion of the pad to the steel shall be per Article 1083.02 of the Standard Specifications.

Shims. Plastic Shims shall be VERS-A-SHIM high impact plastic shims ASTM D792 and D695 or equivalent.
Concrete shims shall be Class PC concrete or approved equivalent.

Caulk. Non-Structural caulk sealant shall be SIKAFLEX 15 LM or equivalent.
Structural caulk shall be SIKADUR 51 NS Flexible Epoxy Control Joint Sealer / Adhesive or equivalent.

Backer Rod shall be MILE HIGH FOAM product sized per manufacturer's standard or equivalent.

Fasteners and Hardware. Miscellaneous fasteners and hardware shall conform to Article 1006.08 of the Standard Specifications and shall be stainless steel or galvanized steel in accordance with ASTM A153 (AASHTO M232) as indicated on the Plans.

Filter Fabric. Filter fabric shall be according to Article 1080.03 of the Standard Specifications.

SUBMITTALS

General. Submittals shall be in conformance with Article 105.04 of the Illinois Tollway Supplemental Specifications except as modified herein.

Precast Concrete

1. Product technical data including:
   a. Manufacturer's mix design and material certifications for aggregate and cement type used for each plan to precast wall panels and posts.
   b. Manufacturer's installation instructions.

2. A 2'x2' sample of the concrete form liner pattern and texture of each type, including special shapes to show range of colors, texture, finishes, and dimensions. Submit a separate set of sample panels approximately 2'x2' from the stain manufacturer to establish application procedures, color and appearance to the Engineer for review and approval.
3. Manufacturer's certification that precast panels that are to be furnished meet or exceed the specifications.
4. Qualifications of testing lab and technician.
5. Test results for all concrete testing.

Test Results. Per Section 106 of the Illinois Tollway Supplemental Specifications, the Contractor shall submit all test results necessary to assure compliance of the materials with this Special Provision and shall furnish copies of such test results to the Engineer. The Contractor shall not make use of nor incorporate into the Work any materials until the tests have been made and the materials are found to be acceptable and in compliance with the requirements of this Special Provision. Tests shall be performed by a nationally accredited testing laboratory, and the test results shall be notarized.

The submittal shall include, but not be limited to, test results for:

Precast Concrete

1. Precast Concrete
   Quality control testing of Precast concrete panels and shims, including certification of all materials incorporated into the panels.
   - compressive strengths
   - slump & air

2. Water Vapor Transmission Test – ASTM D 1653.

3. Additional testing or retesting of concrete materials or other cement-containing products occasioned by their failure, by test or inspection, to meet requirements of the Contract Documents.

Samples. Prior to commencing preparation of Shop Drawings, the Contractor shall submit color samples and details of the proposed surface treatments and finish to the Engineer for their review and approval. The Engineer will select the color and type of surface treatment from the options submitted by the Contractor. The samples shall include a 2' long by 2' wide physical mock-up representative of the panels to be incorporated into the Work. If these samples test panels are not approved, additional test panels shall be furnished until a satisfactory color and finish is obtained, at no additional cost to the Illinois Tollway. The mock-up approved by the Engineer shall then be the standard of comparison for the remaining finishes. The Contractor shall consider in his schedule a 14-calendar day period from the date the submittal is received by the Engineer to the expected date of return with comment. This 14-day review period shall be considered with any resubmittal, and such resubmittals shall not be considered cause for an extension of time to the Contract.

AThe physical sample shall be constructed at the yard using the approved color and surface treatment and approved by the Engineer, which shall be used as the standard of

comparison for the remaining finishes and may not be included in the final construction. At the conclusion of the project the sample is to be removed and disposed of by the Contractor. If production is from multiple yards or if the concrete mixture design is changed during production, additional samples will be required to ensure no variation in stain color.

Mix Design. The Contractor shall submit concrete mix designs in conjunction with the submittal of the Shop Drawings. The mix design submittal shall include product data on all materials used in the mix, material sources and material testing. All mix designs for Portland Cement Concrete shall be in accordance with Section 1020 of the Standard Specifications. The Contractor shall consider in his schedule a 14-calendar day period from the date the submittal is received by the Engineer to the expected date of return with comment. This 14-day period shall be considered with any resubmittal, and such resubmittals shall not be considered cause for an extension of time to the Contract.

CONSTRUCTION REQUIREMENTS

Delivery, Storage, and Handling. The materials for the Precast Concrete Noise Abatement Walls shall be stored by the Contractor at a site(s) approved by the Engineer until the time of installation. The Contractor shall store material above ground on level platforms, covered and protected against wetting, and shall protect the materials from mechanical damage and damage due to excessive temperatures, sunlight, and moisture. If stored outside, all paint, stain and other protective coatings shall have been applied. The Contractor shall inspect all materials and allow the Engineer to inspect all materials as the materials arrive at the project site. Any materials damaged during storage or delivery shall be promptly replaced at no additional cost to the Illinois Tollway.

Each Precast Concrete Panel shall be marked with an identification tag. This identification shall not be visible after installation of the Precast Concrete Panel. The tag shall include the following:

- Casting date
- Contract number
- Noise abatement wall number
- Panel Type: Structure mount, Crashworthy, Non-Crashworthy
- Height of Panel
- Panel mark- the designation corresponding to that shown on the Noise Abatement Wall Panel Schedule in the plans

Each post, anchor bolts, bracket, bents plate, and connection device shall be marked with an identification tag. This identification shall not be visible after installation of the posts. The tag shall include the following:

- Rolling date (if W-Section)
- Fabrication date
- Contract number
- Noise abatement post number
- Post height
- Post size
- Post mark- the designation corresponding to that shown on the Noise Abatement Wall post Schedule in the plans.

Posts for Drilled Shafts. Installation of the posts shall be accomplished in accordance with Section 522.08 (b) (1) of the Standard Specifications, the detail shown in the plans, and the details shown on the approved erection plan. Installation of the post per Section 522.08(b)(2) will not be allowed.

Revise Section 522.08(b)(3) to read as follows.
Noise abatement wall post installation shall satisfy the following construction tolerances.

(a) The center of the soldier pile shall be within 1/2 in. of plan location in any direction at the top of the post and within ½ in. of plan location at the top of shaft elevation.
(b) Delete
(c) The top of noise abatement post shall be within ± 2 in. of plan elevation.
(d) Drilled shaft foundations shall be placed within 2 in. of the station and offset indicated on the plans.

Failure to meet these tolerances may require modifications to the wall up to and including removal and reinstallation of the affected portions of the wall.

Placement of the concrete in drilled shafts shall be in accordance with Section 522.08 of the Standard Specifications.

Obstructions encountered during drilling of the noise abatement foundation shafts shall be in accordance with Article 516.14 of the Standard Specifications.

Structural Steel. Installation of structural steel and anchor bolts shall be in accordance with the details shown on the approved erection plan, this Special Provision, Section 505 of the Standard Specifications, Article 105.04 of the Illinois Supplemental Specifications and as approved by the Engineer. The Contractor's erection plans shall be per the applicable requirements of the Illinois Tollway special provision for "Erection of Girders". Notice must be sent to the Engineer and Tollway QA 30 days in advance of steel fabrication.

The Contractor shall be responsible for repair of any damage to the coating system resulting from pick-up and transportation from the storage site or during installation per Section 506 of the Standard Specification Section.

Precast Concrete Panels. Installation of the Precast Concrete Panels shall be accomplished in accordance with the details shown on the approved erection plan, this Special Provision, Section 504 of the Standard Specifications, and as approved by the Engineer. Shims shall be used to construct the panels at the correct elevation and shall be secured with steel banding.

The Contractor shall be responsible for repair of any damage to the Precast Concrete Panels including the coating system resulting from delivery and installation.

No field cutting of the panels shall be permitted, except as required by the Plans or ordered by the Engineer.

Excavation and Backfill. Excavation, including rock excavation, shall be done in accordance with the Plans and Section 202 of the Standard Specifications.

If unsuitable material is present at or below the foundation level, it shall be removed per Section 202 of the Standard Specifications and replaced with special fill or porous granular backfill (or CA18 grade aggregate) to a depth, length and width determined by the Engineer. Special fill or porous granular backfill shall be placed in accordance with Section 206 of the Standard Specifications. Unsuitable material shall be any soil material containing vegetable or organic material, such as mulch, peat, or debris such as wood, glass, concrete and brick pieces. In addition to the locations shown on the Plans, unsuitable material shall also be any material determined to be unsuitable by the Engineer. Soils classified as Pt, OH, OL, and MH as per the United Soil Classification System shall also be considered unsuitable material. All open trenches and holes resulting from excavation, placement of the wall and posts shall be protected. The length of open trench shall be limited to 100 feet.

When the bottom panels retain earth, filter fabric shall be placed at the bottom panel and extend 3' horizontally from the panel and extend vertically to the top of the fill height. The filter fabric shall be placed and secured in accordance with Articles 282.05 and 282.06 of the Standard Specifications. Embankment shall be placed and compacted over the filter fabric in accordance with Section 207 of the Standard Specifications. Open space between the wall panel and post shall be filled with a 1" preformed joint fill in accordance with the Illinois Tollway Special Provision "Bonded Preformed Joint Seal"

If the trench or drilled shaft is located in soils classified as Types 1, 2, 3, or 4, the disposal of the surplus material shall be according towith the Illinois Tollway Special Provision for "Disposal of Regulated Substances and Uncontaminated Soil".

Underground utilities shall be located and marked to verify adequate clearance from foundations. The Contractor shall consider OSHA clearances for overhead obstructions such as wires, cables and roadway/area lighting, prior to noise abatement wall erection.

If required, the Contractor shall trim any trees in order to install the Precast Concrete Noise Abatement Wall. Trimming shall be limited to only that which is necessary to install the system. All trimmings shall be disposed of outside the Illinois Tollway right-of-way in a manner that will not be in violation of any law, regulation or ordinance. Specific tree trimming procedures shall be identified, and comply with Standard Specifications, Article 201.06. Burning within, or in proximity to Illinois Tollway right-of-way is not permitted.

Warranties

The Contractor shall submit all System Supplier's warranties for materials incorporated into the Work in accordance with Article 105.18 of the Illinois Tollway Supplemental specifications except as modified herein.

The workmanship guaranty shall be for a minimum period of 3 years starting from the date of final completion of the Contract. In the event any defects occur, the Contractor shall complete the repairs within 60 days of written notification of such defects and at no additional cost to the Illinois Tollway.

The materials shall be impervious to road salt and calcium chloride for a 5-year Manufacturer/System Supplier warranty period. In the event the material fails to meet the aforementioned requirement within the 5-year warranty period, the Manufacturer/System Supplier shall complete the repairs within 60 days of written notification of such defects

and at no additional cost to the Illinois Tollway.

Design Modifications. If the soil bearing pressure differs from that shown on the plans by more than 10 percent, the Engineer shall be contacted to determine if any foundation shafts require modification. In addition, if the type of soil or rock encountered is not similar to that shown in the subsurface exploration data, the Contractor may be required to extend the noise abatement foundation length(s) beyond those shown in the plans or increase the diameter. In either case, the Engineer will determine if revisions are necessary and the extent of the modifications required.

All known utilities existing within the limits of construction are either indicated on the plans or visiblye marked in the field. If the noise abatement wall alignment conflicts with a utility, either vertically or horizontally, the Engineer shall be contacted to determine if any noise abatement alignment changes are required. Every effort shall be made to identify changes in the re wall alignment prior to preparation of shop drawings. Changes to the noise abatement wall alignment shall be localized to the point of conflict to minimize wholesale changes to the alignment.

Should changes to the noise abatement wall alignment or post spacing occur and sections of the precast concrete panels or individual structural steel post are not salvageable, the contractor shall order and provide new precast concrete panels and structural steel posts. Prior to ordering material, the contractor shall measure and prepare shop drawings for the new precast concrete panels and structural steel posts and assembly accessories. The new panels and posts shall be paid according to Article 109.04 of the Standard Specifications.

METHOD of MEASUREMENT

This work will be measured for payment in square feeoot for each wall. The length of the noise abatement wall shall be measured along the center of the wall beginning and ending at the centerline of each end post. For ground mounted noise abatement wall, the height of the wall will be measured from the top of the exposed panel to the bottom of the bottom panel, including the portion below ground. For structure mounted noise abatement walls, the height of the wall will be measured from the top of the exposed panel to the bottom panel elevation shown on the plans. The area of post extending below ground or extending below bottom panel when attached to a structure, will not be measured for payment. Areas with vertical steps in the wall will be deducted from areas measured.

BASIS of PAYMENT

This work will be paid for at the contract unit price per square foot forper PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, NON-CRASHWORTHY, or PRECAST CONCRETE NOISE ABATMENT WALL, GROUND MOUNTED, CRASHWORTHY, or PRECAST CONCRETE NOISE ABATMENT WALL, STRUCTURE MOUNTED at specified location and shall include all components required to furnishdeliver and erect the precast noise abatement wall panels, posts and assembly accessories such as blocking, shims, banding, backer rod, caulk, and filter fabric. Tree trimming required for installation of the wall units will be included as part of this work.

Foundation soils which are shown on the drawings as unsuitable, or which are determined to be unsuitable, and directed by the Engineer to be excavated and replaced with Special Fill or Porous Granular Backfill will be measured and paid for as EARTH EXCAVATION, and either SPECIAL FILL or POROUS GRANULAR BACKFILL prior to initiating installation of the noise abatement wall. Any temporary or permanent liners for drilled shafts will not be measured for payment. Foundation soils which are shown on the drawings as Type 1 soils, or which are later re-classified as Type 1 soils, the disposal of the surplus material will be measured and paid for as NON-SPECIAL WASTE DISPOSAL (TYPE 1).

Obstruction mitigation will be paid for according to Article 109.04

Pay Item Number	Designation	Unit of Measure
JT599910	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, NON-CRASHWORTHY	SQ FT
JT599915	PRECAST CONCRETE NOISE ABATMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ FT
JT599920	PRECAST CONCRETE NOISE ABATMENT WALL, STRUCTURE MOUNTED	SQ FT

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81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT
81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH
81400100	HANDHOLE	EACH
81400300	DOUBLE HANDHOLE	EACH
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH
83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM	EACH
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT

87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH
87800100	CONCRETE FOUNDATION, TYPE A	FOOT
87800150	CONCRETE FOUNDATION, TYPE C	FOOT
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT
88000105	FLASHING BEACON INSTALLATION	EACH
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH
88500100	INDUCTIVE LOOP DETECTOR	EACH
88600700	PREFORMED DETECTOR LOOP	FOOT
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH

89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT
X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH
X1400216	LAYER II (DATALINK) SWITCH	EACH
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH
88700090	CONFIRMATION BEACON	EACH
88700200	LIGHT DETECTOR	EACH
88700300	LIGHT DETECTOR AMPLIFIER	EACH
80400100	ELECTRIC SERVICE INSTALLATION	EACH
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT
81400200	HEAVY-DUTY HANDHOLE	EACH
86400100	TRANSCEIVER - FIBER OPTIC	EACH
88800100	PEDESTRIAN PUSH-BUTTON	EACH
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT

Basis of Payment. This work will be paid for at the contract unit price EACH for TRAFFIC SIGNAL POST, GALVANIZED STEEL, of the length specified or PEDESTRIAN PUSH-BUTTON POST, of the type specified, which price shall be payment in full for furnishing and installing the traffic signal post, base, foundation for pedestrian post, nuts and washers, and pipe cap complete. If the Department approves painting, powder coating by the manufacturer will be required over the galvanization in accordance with TRAFFIC SIGNAL PAINTING Special Provisions.

Pay Item Number	Designation	Unit of Measure
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH

SPECIAL PROVISION
FOR
HANDHOLE (CC)

Effective: 7/1/16
Revised: N/A

The installation of a handhole shall meet the requirements of Section 814 of the Standard Specifications, with the addition as the following:

All handholes shall be concrete poured in place against undisturbed earth. No pre-cast concrete handholes will be accepted.

The handholes shall have an inside dimension of 21-1/2" (549 mm) minimum. Frames and lid openings shall match this dimension.

The cover of the handhole shall be labeled "TRAFFIC SIGNALS" with legible raised letters.

All conduits will enter the handhole at a depth of 30" (760 mm) except for the conduits between the curb and handhole for detector loops when the handhole is less than five (5) feet (1.52 m) from the detector loop. All conduit ends should be sealed with a waterproof sealant to prevent the entrance of contaminants into the handhole.

For grounding purposes the handhole frame shall have provisions for a 7/16" (15.875 mm) diameter stainless bolt cast into the frame. The covers shall have a stainless steel threaded stint extended from the eye hook assembly for the purpose of attaching the grounding conductor to the handhole frame and cover.

The minimum wall thickness for heavy duty hand holes shall be 12 inches (300 mm).

Steel cable hooks shall be coated with hot-dipped galvanization in accordance with AASHTO Specification M111. Hooks shall be a minimum of 1/2 inch (12.7mm) diameter with two 90 degree bends and extend into the handhole at least 6 inches (150 mm). Hooks shall be placed a minimum of 12 inches (300 mm) below the lid or lower if additional space is required.

The French drain shall be constructed of crushed stone or gravel, Gradation CA 5 or CA 7, and according to Section 601 of the Standard Specifications.

Basis of Payment. This work will be paid for at the contract unit price EACH for HANDHOLE, HEAVY-DUTY HANDHOLE, or DOUBLE HANDHOLE, which price shall be payment in full for all necessary excavating, backfilling, disposal of unsuitable materials, and furnishing all materials within the limits of the handhole.

Pay Item Number	Designation	Unit of Measure
81400100	HANDHOLE	EACH
81400200	HEAVY-DUTY HANDHOLE	EACH
81400300	DOUBLE HANDHOLE	EACH

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SPECIAL PROVISION
FOR
STORM SEWER (WATER MAIN REQUIREMENTS) (PS)

Description: This work shall consist of constructing storm sewer in areas where the minimum horizontal separation from water main and/or water service lines cannot be maintained. The separation requirements are defined in the Standard Specifications for Water & Sewer Main Construction in Illinois.

General: The work shall be performed according to Section 550 of the "Standard Specifications" and 35 Illinois Administrative Code 653.119, which requires the storm sewer to be pressure tested (for storm sewers where 10' horizontal separation from water main is not met) to the maximum expected surcharge pressure before backfilling.

Material: The material and installation requirements shall be according to the latest edition of the “Standard Specifications for Water and Sewer Main Construction in Illinois”, and the applicable portions of Section 550 of the Standard Specifications, which may include concrete collars and encasing pipe with seals if required.

- Concrete Pressure Pipe: The concrete pressure pipe shall meet the requirements of the latest AWWA Standards C300, C301, and C303. The structural design of pre-stressed concrete cylinder pipe shall be according to the latest addition of AWWA Standard C304.

- Ductile Iron Pipe: The ductile iron pipe shall meet the requirements of ANSI A 21.51 (AWWA Cl51). The class or thickness design shall be according to ANSI A 21.50 (AWWA C150j. The ductile iron pipe shall be seal coated and/or cement lined according to ANSI A 21.4 (AWWA CJ04). The ductile iron pipe shall have mechanical or rubber (slip seal or push on) joints.

- Steel Pipe: The steel water pipe shall meet the requirements of the latest AWWA Standard C200. The structural design shall be according to the latest edition of C200 and AWWA Manual M-11 shall serve as the standard of practice for design and installation.

Method of Measurement: This work will be measured for payment in place in feet. The measurement shall be according to Article 550.09 of the "Standard Specifications".

Basis of Payment: This work will be paid for at the contract unit price per foot for STORM SEWERS (WATER MAIN REQUIREMENTS) of the diameter specified. The unit price shall include all equipment, materials and labor necessary to complete the work as specified The cost of pressure testing the storm sewer included in the unit price for STORM SEWERS (WATER MAIN REQUIREMENTS).

Pay Item Number	Designation	Unit of Measure
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT

SPECIAL PROVISION
FOR
CONCRETE FOUNDATION, PEDESTRIAN POST (D1)

Effective: April 1, 2019
878.03TS

This item shall follow Section 878. Traffic Signal Concrete Foundation of the Standard Specifications.

No foundation is to be poured until the Resident Engineer gives his/her approval as to the depth of the foundation.

Basis of Payment.
This work will be paid for at the contract unit price per foot of depth of CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER.

Pay Item Number	Designation	Unit of Measure
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT

SPECIAL PROVISION
FOR
PEDESTRIAN PUSH-BUTTON (CC)

Effective: 1/1/18
Revised: N/A

The installation of a Pedestrian Pushbutton shall meet Section 888 and 1074.02 of the Specifications except as revised with this Special Provision.

This item shall consist of furnishing and installing a latching (single call) or non-latching (dual call) push-button assembly which shall be ADA compliant, highly vandal resistant, be pressure activated with minimal movement and can not be stuck in a closed or constant call position. A mounting bracket and/or extension shall be used to assure proper orientation when two pedestrian push buttons are required for one post. The price of the bracket and/or extension shall be included in the cost of the pedestrian push button. The contractor is not allowed to install a push-button assembly with the sign below the push-button in order to meet mounting requirements.

The pedestrian push-button housing shall be constructed of aluminum alloy according to ASTM B 308 6061-T6 and powder coated yellow, unless otherwise noted on the plans. The housing shall be furnished with suitable mounting hardware.

Stations shall be designed to be mounted directly to a post, mast arm pole or wood pole. The station shall be aluminum and shall accept a 3 inch (75mm) round push-button assembly and a regulatory pedestrian instruction sign according to MUTCD, sign series R10-3e 9 x 15 inch sign with arrow(s) for a count-down pedestrian signal. The pedestrian station size without count-down pedestrian signals shall accommodate a MUTCD sign series R10-3b or R10-3d 9 x 12 inch sign with arrow(s).

Stations shall be designed to be mounted to a post, mast arm pole or wood pole. The station shall be aluminum and shall accept a 3 inch (75mm) round push-button assembly and a regulatory pedestrian instruction sign according to MUTCD, sign series R10-3e 9” x 15” sign with arrow(s) for a count-down pedestrian signal. The pedestrian station size without count-down pedestrian signals shall accommodate a MUTCD sign series R10-3b or R10-3d 9” x 12” sign with arrow(s). Pedestrian signs shall be retroreflective.

Pedestrian push buttons and stations shall be mounted to mast arm poles, posts or wood poles as shown on the plans and shall be fully ADA accessible from a paved or concrete surface. See the District’s Detail sheets for orientation and mounting details.

Pedestrian pushbutton extension may be needed for the accessibility and correct alignment of pedestrian pushbutton. The extension shall be included in cost of the pay item “Pedestrian Push-Button”.

Basis of Payment. This work shall be paid for at the contract unit price EACH for PEDESTRIAN PUSH-BUTTON, which price shall be payment in full for furnishing and installing the pushbutton assembly complete.

Pay Item Number	Designation	Unit of Measure
88800100	PEDESTRIAN PUSH-BUTTON	EACH

SPECIAL PROVISION
FOR
PEDESTRIAN SIGNAL POST (D1)

Effective: January 1, 2020
Revised:
875.02TS

Description.
This work shall consist of furnishing and installing a metal pedestrian signal post. All installations shall meet the requirements of the "District One Standard Traffic Signal Design Details".

Materials.

a. General. The pedestrian signal post shall be designed to support the traffic signal loading shown on the plans. The design and fabrication shall be according to the Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, as published by AASHTO.

b. Post. The post shall be made of steel or aluminum and have an outside diameter of 4 1/2 in. The post shall be threaded for assembly to the base. Aluminum posts shall be according to the specifications for Schedule 80 aluminum pipe. Steel posts shall be according to the specifications for Schedule 40 steel pipe.

c. Base. The base of a steel post shall be cast iron. The base of an aluminum post shall be aluminum. The base shall be threaded for the attachment to the threaded post. The base shall be approximately 10 in. high and 6 3/4 in. square at the bottom. The bottom of the base shall be designed to accept four 5/8 in. diameter anchor rods evenly spaced in a 6 in. diameter circle. The base shall be true to pattern, with sharp clean cutting ornamentation, and equipped with access doors for cable handling. The door shall be fastened to the base with stainless steel screws. A grounding lug shall be provided inside the base.

d. Anchor Rods. The anchor rods shall be 5/8 in. in diameter and 16 in. long and shall be according to Article 1006.09. The anchor rods shall be threaded approximately 6 in. at one end and have a bend at the other end. The first 12 in. at the threaded end shall be galvanized. One each galvanized nut and trapezoidal washer shall be furnished with each anchor rod. The washer shall be properly sized to fully engage and sit flush on all sides of the slot of the base plate.

   The aluminum post and base shall be drilled at the third points around the diameter and 1/4 in. by 2 in. stainless steel bolts shall be inserted to prevent the post from turning and wobbling.

e. Finish. The steel post, steel post cap and the cast iron base shall be hot-dipped galvanized according to AASHTO M 111. If the Department approves painting, powder coating by the manufacturer will be required over the galvanization in accordance with 851.01TS TRAFFIC SIGNAL PAINTING Special Provisions. If the post and the base are threaded after the galvanization, the bare exposed metal shall

be immediately cleaned to remove all cutting solvents and oils, and then spray painted with two coats of an approved galvanized paint.

The aluminum post shall have a natural finish, 100 grit or finer.

Installation.
The pedestrian signal post shall be erected plumb, securely bolted to a concrete foundation, and grounded to a ground rod according to the details shown on the plans. No more than 3/4 in. of the post threads shall protrude above the base.

A post cap shall be furnished and installed on the top of the post. The post cap shall match the material of the post. The Contractor shall apply an anti-seize paste compound on all nuts and bolts prior to assembly.

Prior to the assembly, the Contractor shall apply two additional coats of galvanized paint on the threads of the post and the base. The Contractor shall use a fabric post tightener to screw the post to the base.

Basis of Payment.
This work will be paid for at the contract unit price per each for PEDESTRIAN SIGNAL POST, of the length specified

Pay Item Number	Designation	Unit of Measure
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH

EARTHWORK SCHEDULE OF QUANTITIES

LOCATION		EARTH EXCAVATION 20200100	ROCK EXCAVATION (NOT USED)	UNSUITABLE MATERIAL 20201200	STRUCTURE EXCAVATION 50200100	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES 50200450	HAZARDOUS WASTE (NOT USED)	ENVIRONMENTAL SOILS TYPE 1 APPROVED	ENVIRONMENTAL SOILS TYPE 2 APPROVED	ENVIRONMENTAL SOILS TYPE 3 APPROVED	ENVIRONMENTAL SOILS TYPE 4 APPROVED	SOILS NOT APPROVED (TYPE 1)	SOILS APPROVED WITH RESTRICTION (TYPE 1)	SUITABLE EXCAVATION	EMBANKMENT	EARTHWORK BALANCE [EXCESS (+) /SHORTAGE (-)]
		EARTHWORK VOLUMES (CY) (SEE NOTE 11)														
												SEE NOTE 1	SEE NOTE 2	SEE NOTES 3, 6, 7	SEE NOTE 9	
		A	B	C	D	DD	E	F	G	H	I	J	L	N=[(A+D-J-L) x SS+B	P	Q=N-P
STAGE 1																
NB I-294 STA 935+00	NB I-294 STA 988+00	6857	0	538	8274	0	0	536	0	0	14703	430	0	13525	26888	-13363
NB I-294 BRIDGE		10824	0	0	2800	0	0	0	5292	0	7165	1167	0	11460	0	11460
NB I-294 STA 994+00	NB I294 STA 1020+00	3455	0	0	8321	1289	0	1760	1067	0	10238	0	0	10834	4068	6766
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		1923	0	0	0	0	0	0	0	0	1923	0	0	1769	692	1077
TOLL PLAZA 39		531	0	0	0	0	0	0	0	0	531	0	0	489	93	396
DETENTION PONDS		26522	0	0	0	0	0	0	0	0	26343	179	0	24236	218	24018
ZONE B OVEREXCAVATION		1058	0	0	0	0	0	71	0	0	987	0	0	973	1058	-85
STAGE TOTAL		51170	0	538	19395	1289	0	2367	6359	0	61890	1776	0	63286	33017	30269 1
STAGE 1A																
NB I-294 STA 935+00	NB I-294 STA 988+00	1637	0	538	0	0	0	133	0	0	2042	0	0	1506	0	1506
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	1041	0	0	0	0	0	0	0	0	1041	0	0	958	0	958
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		56	0	0	0	0	0	0	0	0	56	0	0	52	0	52
STAGE TOTAL		2734	0	538	0	0	0	133	0	0	3139	0	0	2516	0	2516
STAGE 2																
NB I-294 STA 935+00	NB I-294 STA 988+00	3022	0	538	0	0	0	257	0	0	3296	0	7	2774	7677	-4903
NB I-294 BRIDGE		10200	0	0	1936	0	0	0	4377	19	6974	766	0	10460	0	10460
NB I-294 STA 994+00	NB I294 STA 1020+00	106	0	0	0	0	0	0	0	0	106	0	0	98	2786	-2688
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		13328	0	538	1936	0	0	257	4377	19	10376	766	7	13332	10463	2869
STAGE 2A																
NB I-294 STA 935+00	NB I-294 STA 988+00	1922	0	538	0	0	0	0	0	0	2377	0	83	1692	4267	-2575
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	216	0	0	0	0	0	0	0	0	216	0	0	199	1302	-1103
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		2138	0	538	0	0	0	0	0	0	2593	0	83	1891	5569	-3678
STAGE 3																
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	11933	0	116	2856	0	0	0	143	0	14762	0	0	13606	12406	1200
SB I-294 BRIDGE		19047	0	0	3022	0	0	0	6005	165	15899	0	0	20303	0	20303
SB I-294 STA 995+00	SB I-294 STA 1042+00	5019	0	0	6895	169	0	0	0	0	12083	0	0	10961	7218	3743
95TH STREET RAMP B/C		50	0	0	0	0	0	0	0	0	50	0	0	46	148	-102
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZONE B OVEREXCAVATION		5545	0	0	0	0	0	0	0	0	3449	444	1652	3173	5545	-2372 1
STAGE TOTAL		41594	0	116	12773	169	0	0	6148	165	46243	444	1652	48089	25317	22772
STAGE 4																
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	9400	0	116	0	0	0	0	0	0	9116	0	400	8280	8540	-260
SB I-294 BRIDGE		13168	0	0	1972	0	0	0	4461	191	10488	0	0	13929	0	13929
SB I-294 STA 995+00	SB I-294 STA 1042+00	514	0	0	0	0	0	0	0	0	514	0	0	473	4140	-3667
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		23082	0	116	1972	0	0	0	4461	191	20118	0	400	22682	12680	10002
POST-STAGE																
NB I-294 STA 935+00	NB I-294 STA 988+00	3784	0	0	0	0	0	483	0	0	3301	0	0	3481	0	3481
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	1362	0	0	0	0	0	559	0	0	803	0	0	1253	0	1253
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		5146	0	0	0	0	0	1042	0	0	4104	0	0	4734	0	4734
TOTAL		139192 1	0	2384	36076	1458	0	3799 1	21345	375	148463	2986	2142	156530	87046	69484 1

DRAWN BY	SKO	DATE	05/26/2020	
CHECKED BY	BJZ	DATE	05/26/2020	

HDR ENGINEERING, INC.
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ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

SCHEDULE OF QUANTITIES

SCH-01

DRAWING NO.

LOCATION		TOPSOIL VOLUMES (CY)										
		TOPSOIL STRIPPING	SUITABLE TOPSOIL STRIPPING	TOPSOIL PLACEMENT	TOPSOIL BALANCE [EXCESS (+) /SHORTAGE (-)	HAZARDOUS WASTE (NOT USED)	ENVIRONMENTAL SOILS TYPE 1 APPROVED	ENVIRONMENTAL SOILS TYPE 2 APPROVED	ENVIRONMENTAL SOILS TYPE 3 APPROVED	ENVIRONMENTAL SOILS TYPE 4 APPROVED	SOILS NOT APPROVED (TYPE 1)	SOILS APPROVED WITH RESTRICTION (TYPE 1)
			SEE NOTE 8	SEE NOTE 12							SEE NOTE 1	SEE NOTE 2
		R	RR = (R-XX) x TSS ⚠1	S	RR-S	T	U	V	W	X	XX	YY
STAGE 1												
NB I-294 STA 935+00	NB I-294 STA 988+00	6065	5532	2720	2812 ⚠1	0	68	0	0	4839	533	625
NB I-294 BRIDGE		365	0	167	-167	0	0	0	0	0	365	0
NB I-294 STA 994+00	NB I294 STA 1020+00	2509	2509	1121	1388	0	397	240	0	1872	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
DETENTION PONDS		9976	9976	9519	457	0	0	0	0	9976	0	0
STAGE TOTAL		18915	18017	13527	4490	0	465	240	0	16687	898	625
STAGE 1A												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		0	0	0	0	0	0	0	0	0	0	0
STAGE 2												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		0	0	0	0	0	0	0	0	0	0	0
STAGE 2A												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		0	0	0	0	0	0	0	0	0	0	0
STAGE 3												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	6174	5492	2459	3033	0	0	400	0	4349	682	743
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	3568	3568	1466	2102	0	0	206	51	3311	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		9742	9060	3925	5135	0	0	606	51	7660	682	743
STAGE 4												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		0	0	0	0	0	0	0	0	0	0	0
POST-STAGE												
NB I-294 STA 935+00	NB I-294 STA 988+00	0	0	0	0	0	0	0	0	0	0	0
NB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
NB I-294 STA 994+00	NB I294 STA 1020+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 938+00	SB I-294 STA 987+00	0	0	0	0	0	0	0	0	0	0	0
SB I-294 BRIDGE		0	0	0	0	0	0	0	0	0	0	0
SB I-294 STA 995+00	SB I-294 STA 1042+00	0	0	0	0	0	0	0	0	0	0	0
95TH STREET RAMP B/C		0	0	0	0	0	0	0	0	0	0	0
TOLL PLAZA 39		0	0	0	0	0	0	0	0	0	0	0
STAGE TOTAL		0	0	0	0	0	0	0	0	0	0	0
TOTAL		28657	27077	17452	9625	0	465	846	51	24347	1580	1368

DRAWN BY	SKO	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

SCHEDULE OF QUANTITIES

SCH-02

DRAWING NO. 19 OF 1762

PAY ITEM NO.	DESIGNATION	STAGE 1	STAGE 1A	STAGE 2	STAGE 2A	STAGE 3	STAGE 4	POST-STAGE	TOTAL	UNITS	CALCULATION NOTES:
20200100	EARTH EXCAVATION	51170	2734	13328	2138	41594	23082	5146	139192	CUYD	A
NOT USED	ROCK EXCAVATION	0	0	0	0	0	0	0	0	CUYD	B
20400800	FURNISHED EXCAVATION	2622	0	258	3678	119	0	0	6677	CUYD	[WHEN Q<0, THEN Q] + [(Z + BB) x SS]
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	538	538	538	538	116	116	0	2384	CUYD	C
50200100	STRUCTURE EXCAVATION	19395	0	1936	0	12773	1972	0	36076	CUYD	D
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	1289	0	0	0	169	0	0	1458	CU YD	DD
JI211110	TOPSOIL EXCAVATION AND PLACEMENT	13527	0	0	0	3925	0	0	17452	CUYD	WHEN S<RR, THEN S OR WHEN S>RR, THEN RR
JI211112	TOPSOIL EXCAVATION AND DISPOSAL	5388	0	0	0	5817	0	0	11205	CUYD	R-S
NOT USED	TOPSOIL FURNISH AND PLACE, 6"	0	0	0	0	0	0	0	0	SQYD	WHEN S>RR, THEN (S-RR)/THICKNESS IN YARDS
JT202009	NON-SPECIAL WASTE DISPOSAL, TYPE 1	3323	133	766	0	1215	0	1042	6479	CUYD	[IF, ((((F+L+Z+BB)*SS)-P)/SS)]>0 +J+AA + [IF, ((((U+YY)*SST)-S)/SST)>0] + XX
NOT USED	HAZARDOUS WASTE DISPOSAL	0	0	0	0	0	0	0	0	CUYD	E+T+Y

* THIS EXCAVATION IS NOT PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE ASSOCIATED WORK ITEM.

NOTES:

(1) "SOILS NOT APPROVED" SHALL NOT BE REUSED ON THE ILLINOIS TOLLWAY ROW AND SHALL BE DISPOSED OF AS EARTH EXCAVATION OR NON-SPECIAL WASTE DISPOSAL, TYPE 1 DEPENDING ON THE SOILS CLASSIFICATION.

(2) "SOILS APPROVED WITH RESTRICTION" CAN BE REUSED IN THE FOLLOWING MUNICIPALITIES WHICH HAVE IEPA APPROVED GROUNDWATER ORDINANCES: THE CITY OF HICKORY HILLS AND VILLAGE OF BRIDGEVIEW. THE VILLAGE OF JUSTICE DOES NOT HAVE AN IEPA APPROVED ORDINANCE IN PLACE.

(3) SOILS APPROVED WITH RESTRICTION THAT CANNOT BE REUSED WITHIN THE PROJECT AND SOILS NOT APPROVED MUST BE REMOVED AS EITHER NON-SPECIAL WASTE DISPOSAL, TYPE 1, THROUGH AN EXCAVATION PAY ITEM, OR INCLUDED IN THE COST OF THE ASSOCIATED WORK ITEM.

(4) INCIDENTIAL EXCAVATION IS OUTLINED IN A SEPARATE TABLE WHICH IDENTIFIES ENVIRONMENTAL SOIL CLASSIFICATION AND IS NOT CONSIDERED IN CALCULATION FOR SUITABLE EXCAVATION. THIS IS FOR INFORMATION ONLY EXCEPT FOR QUANTITIES OF TYPE 1 SOIL FOR DISPOSAL. PERFORMANCE BASED RETAINING WALLS EXCAVATION IS INCLUDED AS INCIDENTAL TO THE RETAINING WALL AND ASSUMED AS MSE UNLESS OTHERWISE STATED BY THE DESIGNER. QUANTITIES MAY BE ADJUSTED BASED ON WALL DESIGN.

(5) WHEN THERE IS EXCESS SOIL APPROVED FOR REUSE OR APPROVED FOR REUSE WITH RESTRICTION, THE CONTRACTOR SHALL FIRST REUSE ENVIRONMENTAL SOILS TYPE 1 TO MINIMIZE THE VOLUME OF MATERIAL DISPOSED AT A NON-SPECIAL WASTE DISPOSAL FACILITY.

(6) SUITABLE EXCAVATION, N, REPRESENTS SUITABLE EXCAVATED MATERIAL VOLUMES ADJUSTED FOR SHRINKAGE USING A SHRINKAGE MULTIPLIER OF 92% AND ONLY INCLUDES EARTHWORK VOLUMES ASSOCIATED WITH EARTH EXCAVATION, A; ROCK EXCAVATION, B; AND STRUCTURE EXCAVATION, D.

(7) SHRINKAGE FACTOR OF 8% WAS USED TO CALCULATE ADJUSTED EXCAVATION, SS IS THE SHRINKAGE MULTIPLIER SS = (100%-8%) = 92%.

(8) TOPSOIL SHRINKAGE FACTOR OF 0% WAS USED TO CALCULATED ADJUSTED TOPSOIL EXCAVATION, TSS IS THE TOPSOIL SHRINKAGE MULTIPLIER = (100%-0%) = 100%.

(9) IF MATERIAL SHOWN ON THE EARTHWORK SCHEDULE OF INCIDENTAL QUANTITIES IS TO BE USED FOR EMBANKMENT, THE VOLUME OF MATERIAL USED SHALL BE PAID AS FURNISHED EXCAVATION (20400800). SEE SOILS MANAGEMENT PLAN FOR LOCATION OF TYPE 1 SOIL APPROVED FOR REUSE OR APPROVED FOR REUSE WITH RESTRICTION.

(10) THE COST TO PLACE AND COMPACT SUITABLE MATERIAL GENERATED FROM STRUCTURE EXCAVATION IN ACCORDANCE WITH THE EMBANKMENT (ILLINOIS TOLLWAY) SPECIAL PROVISION SHALL BE INCLUDED IN THE COST OF STRUCTURE EXCAVATION.

(11) SEE VOLUME 7 FOR ADDITIONAL EARTHWORK QUANTITIES AND PAY ITEMS RELATED TO COOK COUNTY IMPROVEMENTS.

(12) TOPSOIL PLACEMENT QUANTITIES EXCLUDE AREAS AT THE BOTTOM OF DETENTION BASINS WHERE TOPSOIL PLACEMENT IS PAID FOR AS PREPARED TOPSOIL FURNISH AND PLACE, 8" (JT211200). FOR TOPSOIL PLACEMENT DETAILS AT DETENTION BASINS, SEE DRAINAGE PLANS.

(13) SOIL EXCAVATED FROM TOLLWAY ROW SHALL ONLY BE REUSED WITHIN TOLLWAY ROW.

JT637010	CONCRETE SHOULDER BARRIER TRANSITION, TYPE V-SF			
STA	O/S (R+, L-)	STA	O/S (R+, L-)	FOOT
27+95.0	12.8	28+30.0	12.8	35.0
TOTAL				35

JT420104	JOINTED PLAIN CONCRETE PAVEMENT FOR COMPOSITE PAVEMENT 11"						
STA	STA	LT / RT	LENGTH	AVE WIDTH	AREA (SF)	UNIT CONV.	SQ YD
940+92.5	986+21.7	LT	4,529.2	60.7	274,921.77	1/9	30,546.9
941+01.5	986+91.7	RT	4,590.2	64.1	294,411.29	1/9	32,712.4
995+41.7	1006+44.0	RT	1,102.3	61.0	67,238.00	1/9	7,470.9
996+11.7	1006+44.0	LT	1,032.3	61.6	63,602.07	1/9	7,066.9
986+21.7	986+91.7	LT	70.0	61.0	4270	1/9	474.4
987+42.8	988+12.8	RT	70.0	61.0	4270	1/9	474.4
994+24.8	994+94.8	RT	70.0	61.0	4270	1/9	474.4
995+41.7	996+11.7	LT	70.0	61.0	4270	1/9	474.4
TOTAL							79,695

JI440235	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"						
STA	STA	LT / RT	LENGTH	AVE WIDTH	AREA (SF)	UNIT CONV.	SQ YD
Paid for at the Engineers discretion					11700	1/9	1,300.0
TOTAL							1,300

JT421510	SLEEPER SLAB						
STA	STA	LT / RT	LENGTH	AVE WIDTH	AREA (SF)	UNIT CONV.	SQ YD
940+98.5	941+04.5	RT	16.0	6.0	96	1/9	10.7
1014+41.8	1014+50.4	RT	24.0	6.0	144	1/9	16.0
TOTAL							27

NOTE: THE QUANTITY SHOWN HEREIN REPRESENTS THE QUANTITY OF THIS ITEM WHICH IS INCLUDED IN THE ROADWAY PLANS. ADDITIONAL QUANTITY PROVIDED IN THE STRUCTURAL PLANS IS NOT SUMMARIZED HEREIN.

1

JI440290	ASPHALT PATCHING OF MAINLINE OVERLAYS, 4"						
STA	STA	LT / RT	LENGTH	AVE WIDTH	AREA (SF)	UNIT CONV.	SQ YD
Paid for at the Engineers discretion					11700	1/9	1,300.0
TOTAL							1,300

JI451160	CRACK FILLING			
STA	O/S (R+, L-)	STA	O/S (R+, L-)	FOOT
Paid for at the Engineers discretion				1,500.0
TOTAL				1,500

JI442135	CLASS D4 PATCHES, TYPE II, 4 INCHES						
STA	STA	LT / RT	LENGTH	AVE WIDTH	AREA (SF)	UNIT CONV.	SQ YD
Paid for at the Engineers discretion					450	1/9	50.0
TOTAL							50

JI451110	CRACK SEALING						
STA	STA	LENGTH	AVE. WIDTH	AREA (SF)	NO. APPS.	APP. RATE	POUND
Paid for at Engineers discretion							1,000.0
TOTAL							1,000

JI451100	CRACK ROUTING (PAVEMENT)			
STA	O/S (R+, L-)	STA	O/S (R+, L-)	FOOT
Paid for at the Engineers discretion				3,000.0
TOTAL				3,000

JT154002	DISPOSAL OF UNIDENTIFIED HAZARDOUS WASTE		
STA	OFFSET	LT / RT	UNIT
Quantities from Earthwork Schedule			150,000
TOTAL			150,000

ASPHALT MIX TABLE

LOCATION	OPERATIONS	CODE #	ITEM	UNIT	VOIDS	TYPICAL THICKNESS	MIX TYPE	NOTES
COMPOSITE PAVEMENT (JOINTED PLAIN CONCRETE BASE)	STABILIZED SUBBASE	JI312022	STABILIZED SUBBASE – WMA, 3"	SQ YD	2% @ 50 GYR	3"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 3
SERVICE RAMP COMPOSITE PAVEMENT (JOINTED PLAIN CONCRETE PAVEMENT)	STABILIZED SUBBASE	JI312022	STABILIZED SUBBASE - WMA, 3"	SQ YD	2% @ 50 GYR	3"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 3
AS INDICATED ON THE PLANS	SERVICE RAMP SHOULDERS	JI482104	WARM MIX ASPHALT SHOULDERS, 6"	SQ YD	4% @ 70 GYR	2"	WARM MIX ASPHALT SURFACE COURSE, IL-9.5, MIX D, N70	NOTE 4
					3% @ 50 GYR	4"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 4
	MAINLINE AND SYSTEM INTERCHANGE RAMP SHOULDERS	JI482128	WARM MIX ASPHALT SHOULDERS, SPECIAL (9 IN.)	SQ YD	3.5% @ 80 GYR	2"	UNMODIFIED STONE MATRIX WARM MIX ASPHALT COURSE, IL-12.5, N80	NOTE 2
					3.5% @ 70 GYR	3"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N70	NOTE 4
					3% @ 50 GYR	4"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 4
	TEMPORARY PAVEMENT (ASPHALT OPTION)	JI485010	TEMPORARY PAVEMENT, CLASS 1	SQ YD	4% @ 70 GYR	2"	WARM MIX ASPHALT SURFACE COURSE, IL-9.5, MIX D, N70	NOTE 4
					3% @ 50 GYR	4"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 4
		JI485020	TEMPORARY PAVEMENT, CLASS 2	SQ YD	4% @ 70 GYR	2"	WARM MIX ASPHALT SURFACE COURSE, IL-9.5, MIX D, N70	NOTE 4
					3% @ 50 GYR	7" (2 EQUAL LIFTS)	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 4
	STABILIZED SUBBASE NEAR TOLL PLAZAS	JI312024	STABILIZED SUBBASE - WMA, 4"	SQ YD	2% @ 50 GYR	4"	WARM MIX ASPHALT BINDER COURSE, IL-19.0, N50	NOTE 3
AS DIRECTED BY ENGINEER	MAINLINE OVERLAY PATCHING	JI440290	ASPHALT PATCHING OF MAINLINE OVERLAYS, 4"	SQ YD	4% @ 70 GYR	4" (2 EQUAL LIFTS)	WARM MIX ASPHALT SURFACE COURSE, IL-9.5, MIX D, N70	NOTE 4
	PRESSURE RELIEF JOINT PATCHING	JI442135	CLASS D4 PATCHES, TYPE II, 4 INCHES	SQ YD	4% @ 70 GYR	4" (2 EQUAL LIFTS)	WARM MIX ASPHALT SURFACE COURSE, IL-9.5, MIX D, N70	NOTE 4

1

NOTES:
1. QUANTITIES OF STONE MATRIX ASPHALT FRICTION SURFACE MIXES ARE BASED ON THE UNIT WEIGHT OF 135.0 LB/SQ YD/IN.
2. QUANTITIES OF STONE MATRIX ASPHALT SURFACE AND BINDER MIXES ARE BASED ON THE UNIT WEIGHT OF 114.0 LB/SQ YD/IN.
3. QUANTITIES OF STABILIZED SUBBASE MIXES ARE BASED ON THE UNIT WEIGHT OF 115.0 LB/SQ YD/IN.
4. QUANTITIES OF ALL OTHER WARM MIX ASPHALT MIXES ARE BASED ON THE UNIT WEIGHT OF 112.0 LB/SQ YD/IN.

52200020	TEMPORARY SOIL RETENTION SYSTEM					
STA	STA	LT / RT	LENGTH	AVE HEIGHT	STAGE	SQ FT
982+00.0	987+35.0	RT	535.0	6.9	1	3,667.0
995+00.0	996+00.0	RT	100.0	4.9	1	486.0
981+00.0	986+81.0	LT	581.0	8.2	2A	4,753.0
995+49.0	999+00.0	LT	351.0	5.5	2A	1,922.0
TOTAL						10,828

JI485010	TEMPORARY PAVEMENT, CLASS 1				
STA	STA	LT / RT	AREA (SF)	UNIT CONV.	SQ YD
STAGE 1					
974+00.0	981+00.0	RT	10,494.0	1/9	1,166
TOTAL					1,166

JI485020	TEMPORARY PAVEMENT, CLASS 2				
STA	STA	LT / RT	AREA (SF)	UNIT CONV.	SQ YD
STAGE 2A					
945+90.0	951+46.0	LT	18,636.0	1/9	2,071.0
1006+44.0	1009+80.0	LT	7,618.0	1/9	847.0
TOTAL					2,918

JI638010	TEMPORARY MODULAR GLARE SCREEN SYSTEM		
STA	STA	LT/RT	FOOT
STAGE 1			
932+63.0	1018+46.0	LT	8,583.0
STAGE 3			
938+24.8	1018+63.6	RT	8,042.0
TOTAL			16,625

70600280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW), TEST LEVEL 3		
STA	LT / RT		EACH
I-294 PRE-STAGE			
1008+67.2	RT		1
1016+95.5	LT		1
		SUBTOTAL	2
I-294 STAGE 1			
930+61.5	RT		1
945+00.4	RT		1
978+10.5	RT		1
		SUBTOTAL	3
I-294 STAGE 1A			
1009+84.0	RT		1
1010+73.8	RT		1
		SUBTOTAL	2
I-294 STAGE 2			
979+00.0	LT		1
		SUBTOTAL	1
87TH ST STAGE 1			
129+61.1	LT		1
129+75.6	RT		1
131+16.4	LT		1
132+41.2	RT		1
		SUBTOTAL	4
ROBERTS RD STAGE 1			
169+60.0	RT		1
169+72.6	LT		1
171+88.0	RT		1
172+25.8	LT		1
		SUBTOTAL	4
TOTAL			16

70600290	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,WIDE), TEST LEVEL 3	
STA	LT / RT	EACH
STAGE 3		
1008+08.6	LT	1
TOTAL		1

70600370	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3		
STA	LT / RT		EACH
STAGE 1A			
934+99.4	RT		1
937+69.4	RT		1
978+22.0	RT		1
		SUBTOTAL	3
STAGE 2			
937+11.5	RT		1
938+87.6	RT		1
978+10.5	RT		1
1001+50.0	RT		1
1002+00.0	RT		1
		SUBTOTAL	5
STAGE 2A			
940+76.2	RT		1
951+25.0	LT		1
979+25.0	LT		1
1013+89.1	LT		1
		SUBTOTAL	4
STAGE 3			
947+24.9	LT		1
976+50.0	LT		1
1017+45.6	LT		1
1040+50.9	LT		1
		SUBTOTAL	4
STAGE 4			
949+41.9	LT		1
976+50.0	LT		1
1010+58.2	LT		1
1013+40.3	LT		1
		SUBTOTAL	4
POST STAGE			
937+11.5	RT		1
953+73.3	LT		1
1004+44.0	RT		1
1028+11.7	LT		1
		SUBTOTAL	4
TOTAL			24

JI704000	TEMPORARY CONCRETE BARRIER			
STA	STA	LT/RT	ANCHORED LENGTH (FOOT)	FOOT
		STAGE 1		
930+61.5	976+60.5	RT	4225.0	4,625.0
953+27.5	954+17.6	RT	87.5	87.5
978+10.5	1016+76.8	RT	3875.0	3,875.0
938+49.8	1018+86.8	LT	8037.5	8,037.5
			SUBTOTAL	16,625.0
		STAGE 2		
979+00.0	1000+00.0	LT	4625.0	4,625.0
			SUBTOTAL	4,625.0
		87TH ST		
129+75.6	132+41.2	RT	275.0	275.0
129+61.1	131+16.4	LT	150.0	150.0
			SUBTOTAL	425.0
		ROBERTS RD		
169+60.0	171+88.0	RT	225.0	225.0
169+72.6	172+25.8	LT	250.0	250.0
			SUBTOTAL	475.0
		TOTAL		22,150

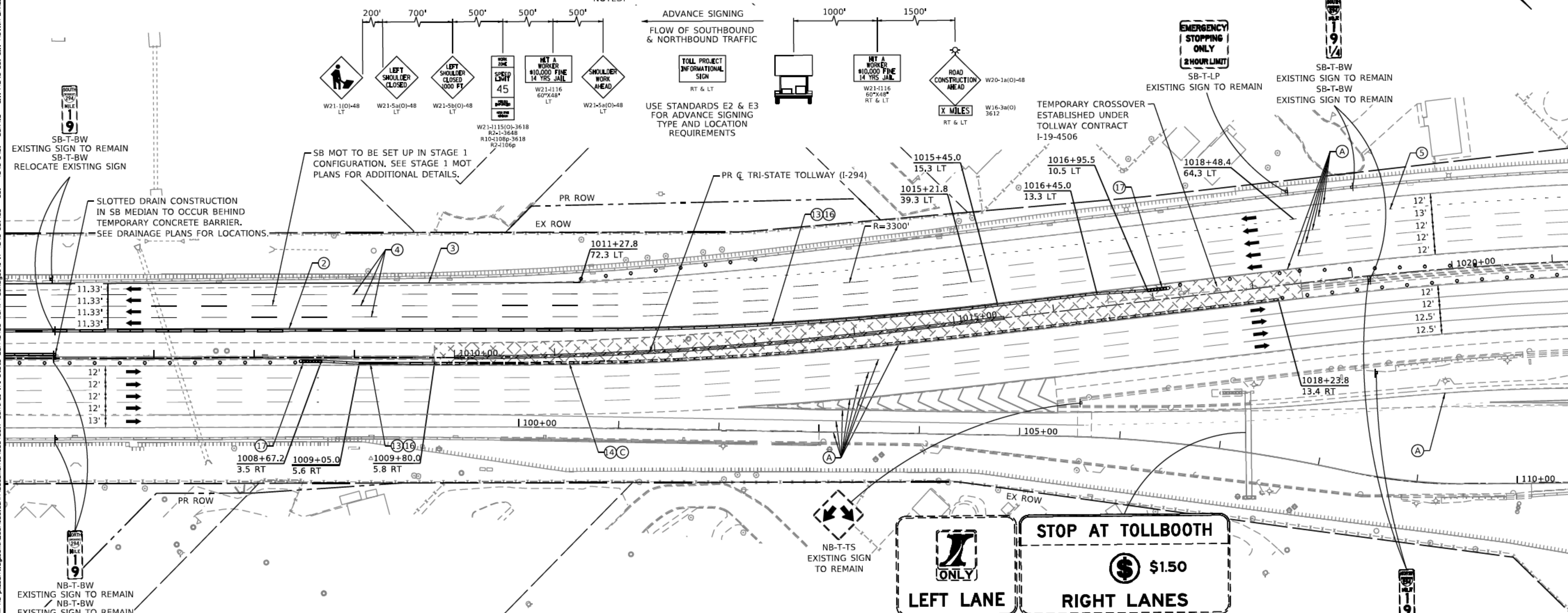
JI704005	RELOCATE TEMPORARY CONCRETE BARRIER			
STA	STA	LT/RT	ANCHORED LENGTH (FOOT)	FOOT
		PRE-STAGE		
1009+80.0	1018+23.8	RT	850.0	850.0
			SUBTOTAL	850.0
		STAGE 1		
945+00.4	946+50.0	RT	150.0	150.0
1009+80.6	1013+14.7	RT	337.5	337.5
			SUBTOTAL	487.5
		STAGE 1A		
934+99.4	945+00.4	RT	0.0	1,000.0
937+69.6	976+09.9	RT	0.0	3,875.0
978+22.0	982+01.0	RT	0.0	375.0
1004+96.6	1007+00.0	RT	0.0	200.0
1009+84.0	1016+36.5	RT	0.0	662.5
1010+73.8	1016+82.7	RT	0.0	612.5
			SUBTOTAL	6,725.0
		STAGE 2		
937+12.0	945+98.5	RT	887.5	887.5
938+87.6	955+90.3	RT	0.0	1,700.0
973+38.3	976+60.5	RT	0.0	325.0
978+10.5	1000+00.0	RT	0.0	2,187.5
1001+50.0	1015+30.1	RT	0.0	1,387.5
			SUBTOTAL	6,487.5
		STAGE 2A		
937+75.8	951+25.0	LT	1350.0	1,350.0
940+76.2	1015+75.0	RT	0.0	7,525.0
952+75.0	979+25.0	LT	2637.5	2,637.5
980+75.0	1013+89.1	LT	3312.5	3,312.5
			SUBTOTAL	14,825.0
		STAGE 3		
930+14.2	947+24.9	LT	1825.0	1,825.0
937+48.3	949+41.7	RT	0.0	1,200.0
948+75.0	1017+57.8	LT	0.0	6,862.5
951+46.2	956+96.8	LT	0.0	550.0
1001+89.0	1008+08.6	LT	612.5	612.5
1006+44.0	1008+08.6	LT	162.5	162.5
1016+24.3	1018+76.3	LT	0.0	250.0
1006+44.0	1008+08.6	LT	0.0	2,125.0
			SUBTOTAL	13,587.5
		STAGE 4		
936+57.5	949+42.0	RT	0.0	1,300.0
936+90.6	949+41.9	LT	1250.0	1,250.0
939+22.9	976+50.0	LT	0.0	3,700.0
978+00.0	1013+40.3	LT	0.0	3,550.0
1008+08.1	1010+58.2	LT	250.0	250.0
			SUBTOTAL	10,050.0
		POST STAGE		
936+99.8	953+73.3	LT	0.0	1,675.0
937+11.5	952+61.6	RT	0.0	1,550.0
1004+44.0	1027+78.4	RT	0.0	2,337.5
1003+35.6	1028+11.7	LT	0.0	2,475.0
			SUBTOTAL	8,037.5
		TOTAL		61,050

MOT EXISTING LEGEND

- (A) EXISTING PAVEMENT MARKING LINE TO REMAIN
- (B) EXISTING TEMPORARY CONCRETE BARRIER
- (C) EXISTING CONCRETE BARRIER DELINEATOR, REFLECTOR MARKER
- (D) EXISTING TEMPORARY MODULAR GLARE SCREEN SYSTEM
- (E) EXISTING IMPACT ATTENUATORS, TEMPORARY

NOTES

1. ALL STATION AND OFFSET INFORMATION IS FROM PR ℄ TRI-STATE TOLLWAY (I-294) UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET CALLOUTS ON TEMPORARY CONCRETE BARRIER ARE TO THE CENTERLINE OF BARRIER.
3. TEMPORARY CONCRETE BARRIER IS OFFSET 1' MINIMUM FROM EDGE OF TRAVELED LANE UNLESS OTHERWISE NOTED.



MOT SYMBOL LEGEND

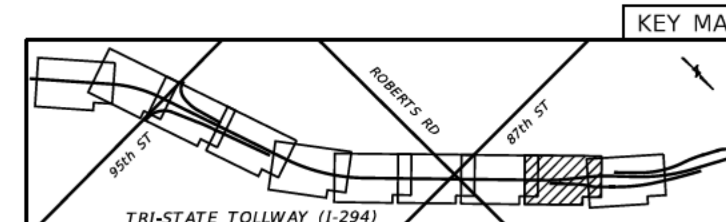
- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PREVIOUSLY BUILT
- COMPLETED PAVEMENT
- DIRECTION OF TRAFFIC
- DRUMS OR TYPE II BARRICADES WITH STEADY BURNING MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- VERTICAL PANEL - POST MOUNTED WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TEMPORARY SOIL RETENTION
- TEMPORARY CHAIN LINK FENCE 8' WITH SCREENING

MOT PROPOSED LEGEND

1. EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS (78005100)
2. EPOXY PAVEMENT MARKING - LINE 4" (SOLID YELLOW) (78005110)
3. EPOXY PAVEMENT MARKING - LINE 4" (SOLID WHITE) (78005110)
4. EPOXY PAVEMENT MARKING - LINE 4" (SKIP-DASH WHITE) (78005110)
5. EPOXY PAVEMENT MARKING - LINE 4" (DOTTED WHITE) (78005110)
6. EPOXY PAVEMENT MARKING - LINE 4"x 2 (SOLID WHITE) (78005110)
7. PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS (70300900)
8. PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID YELLOW) (70300904)
9. PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID WHITE) (70300904)
10. PAVEMENT MARKING TAPE, TYPE IV 4" (SKIP-DASH WHITE) (70300904)
11. PAVEMENT MARKING TAPE, TYPE IV 4" (DOTTED WHITE) (70300904)
12. PAVEMENT MARKING TAPE, TYPE IV 4"X 2 (SOLID WHITE) (70300904)
13. TEMPORARY CONCRETE BARRIER (JI704000)
14. RELOCATE TEMPORARY CONCRETE BARRIER (JI704005)
15. TEMPORARY MODULAR GLARE SCREEN SYSTEM (JI638010)
16. BARRIER WALL REFLECTORS, TYPE C (JI782022)
17. IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3 (70600280)
18. IMPACT ATTENUATORS TEMPORARY (SEVERE USE, WIDE), TEST LEVEL 3 (70600290)
19. IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3 (70600370)
20. TEMPORARY PAVEMENT, CLASS 1 (JI485010)
21. TEMPORARY PAVEMENT, CLASS 2 (JI485020)
22. TEMPORARY CHAIN LINK FENCE 8' WITH SCREENING, TYPE 1 (JI664615)
23. TEMPORARY CHAIN LINK FENCE 8' WITH SCREENING, TYPE 2 (JI664620)

0 50 100 150
SCALE IN FEET

KEY MAP



DRAWN BY	JAM	DATE	07/21/2020
CHECKED BY	SCP	DATE	07/21/2020

Lakeside ENGINEERS

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

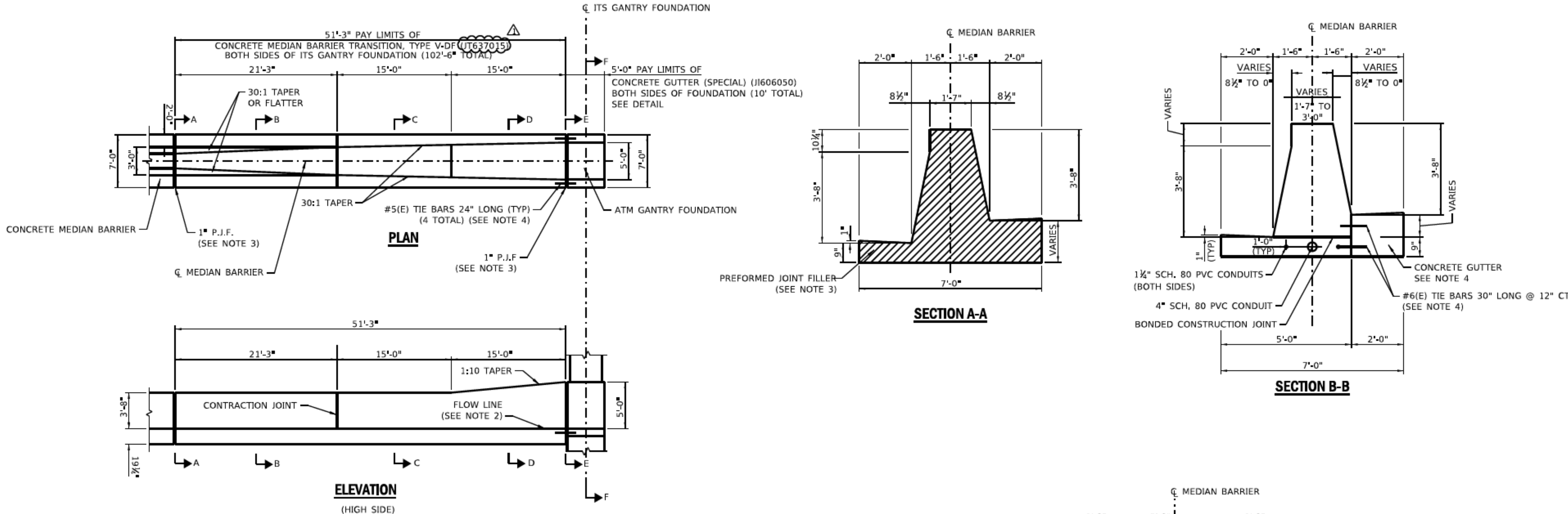
NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

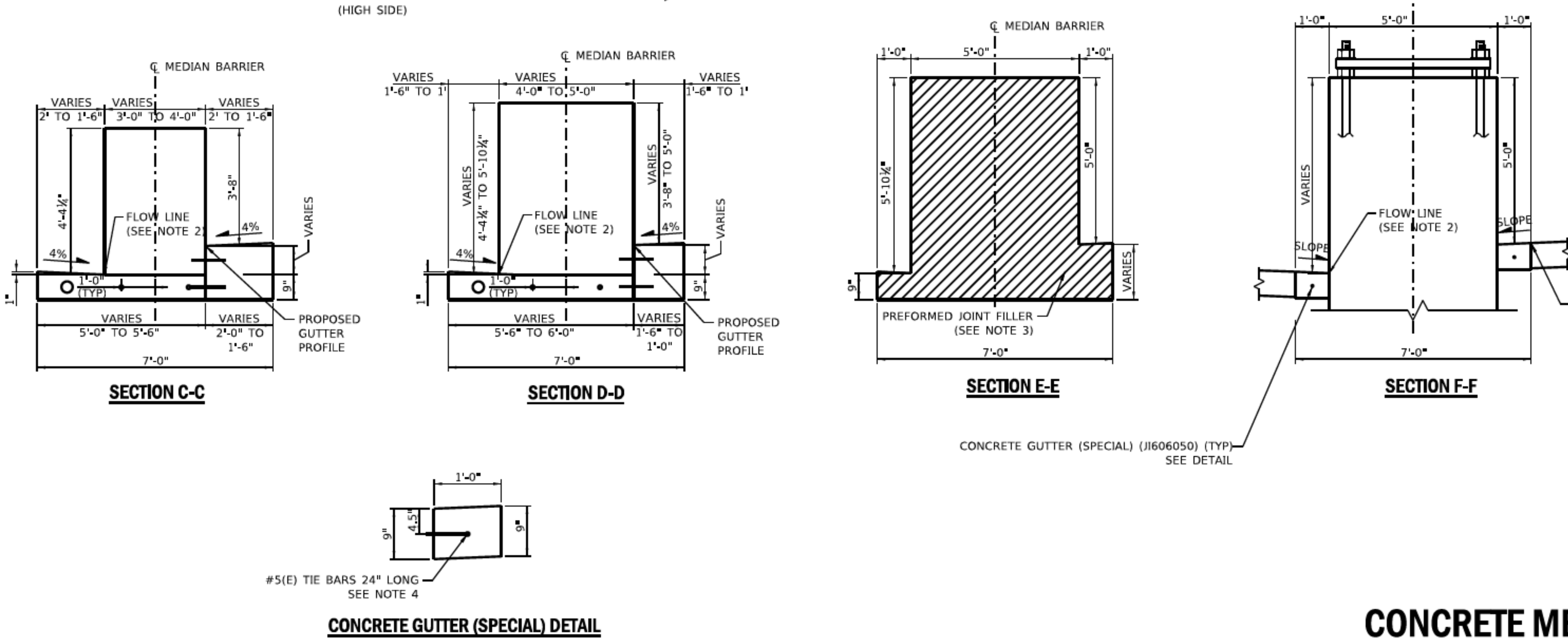
CONTRACT NO. I-20-4517

MOT PRE-STAGE
STA. 1005+51 - STA. 1021+30

MOT-11A
DRAWING NO.
62A OF 1762

PLOT SCALE = 100.0000 ' / in.
PLOT TIME = 4:57:42 PM
PLOT DATE = 7/2/2020





NOTES:

1. 2" DEEP CONTRACTION JOINTS SHALL BE DONE BY SAWING AND SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL, CONCRETE BARRIER BASE, AND CONCRETE GUTTER. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-0". THE MINIMUM DISTANCE BETWEEN CONTRACTION JOINTS SHALL BE 2'-0".
2. GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
3. PROVIDE NON-STAINING GRAY ONE COMPONENT NON-SAG ELASTOMERIC GUN GRADE POLYURETHANE SEALANT MEETING THE REQUIREMENTS OF ASTM C-920, TYPE S, GRADE NS, CLASS 25, USE T WITH A BACKER ROD.
4. THE BARRIER, BARRIER BASE, AND CONCRETE GUTTER, INCLUDING #5(E) AND #6(E) TIE BARS, WITHIN THE PAY LIMITS SHOWN ON THE PLAN VIEW SHALL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF" (JT637015).

CONCRETE MEDIAN BARRIER TRANSITION AT ATM GANTRY

CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF (JT637015)

DRAWN BY	CMD	DATE	05/26/2020
CHECKED BY	BJZ	DATE	05/26/2020

HDR ENGINEERING, INC.
9450 W. BRYN MAWR AVE., SUITE 400
ROSEMONT, IL 60018

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROADWAY DETAIL
BARRIER TRANSITION

RDY-13

DRAWING NO. 180 OF 1762

PLOT SCALE = 100.0000 ' / in. PLOT TIME = 11:50:13 AM PLOT DATE = 7/6/2020

TEMPORARY DRAINAGE MOT STORM SEWER SCHEDULE

PIPE NO.	PAY ITEM NO.	PIPE DESCRIPTION	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE	TRENCH BACKFILL (CU YD)
P201T	JI550102	TEMPORARY STORM SEWER, CLASS A, 15"	187	2.31%	CONNECT TO EX. STRUCTURE	S201T	133
P202T	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	13	1.17%	S201T	PR SEWER	9
P301T	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	19	12.00%	CONNECT TO EX. SEWER	OUTLET TO SB DITCH	0
P302T	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	19	1.20%	CONNECT TO EX. SEWER	OUTLET TO SB DITCH	0
P303T	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	16	1.61%	CONNECT TO EX. SEWER	OUTLET TO SB DITCH	0
P304T	JI550104	TEMPORARY STORM SEWER, CLASS A, 18"	22	1.43%	CONNECT TO EX. SEWER	OUTLET TO SB DITCH	0
P501T	JI550102	TEMPORARY STORM SEWER, CLASS A, 15"	42	0.86%	S501T	CONNECT TO EX. STRUCTURE	8
NOMINAL	JS120310	*SLOTTED PAVEMENT DRAIN (ORIGINAL) (12 in.)	200				0
					TOTAL TRENCH BACKFILL (CU YD)		150

*- A NOMINAL QUANTITY OF 200' IS INCLUDED FOR USE IN TEMPORARY PAVEMENT AREAS OR TO REPLACE ANY DAMAGED SLOTTED DRAIN INSTALLED PREVIOUSLY IN CONTRACT I-19-4506 AS DIRECTED BY THE ENGINEER.

TEMPORARY DRAINAGE STRUCTURES SCHEDULE

PAY ITEM	STRUCTURE NO.	STATION	OFFSET	DIR.	STRUCTURE TYPE	FRAME AND GRATE	PR RIM	INVERT ELEVATION			
								NORTH	EAST	SOUTH	WEST
JI602230	S501T	983+16.6	32.1	RT	INLETS, TYPE A	TYPE 1 FRAME, OPEN LID	639.04		634.37		
JI602310	S201T	947+89.8	2.8	RT	MANHOLE, TYPE A, 4 FT DIAMETER	TYPE 1 FRAME, OPEN LID	620.22		613.10	613.10	
JI602235	S301T	959+21.1	41.6	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	622.46		619.38		619.31
JI602235	S302T	959+22.2	20.3	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	623.16		618.90		618.83
JI602235	S303T	961+71.3	39.9	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	622.86		618.77		618.73
JI602235	S304T	961+71.8	18.6	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	623.48		618.49		618.45
JI602235	S305T	964+21.5	38.4	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	623.51		619.26		619.22
JI602235	S306T	964+22.5	16.9	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	624.05		618.95		618.91
JI602235	S307T	966+71.6	37.3	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	623.99		619.75		619.73
JI602235	S308T	966+72.4	16.8	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	624.54		619.63		619.61
JI602235	S502T	983+15.5	36.1	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	638.98		633.22		632.97
JI602235	S503T	983+16.7	14.5	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	638.96		631.41		631.16
JI602235	S601T	998+16.2	36.1	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	644.64		639.00		638.82
JI602235	S602T	998+16.7	14.6	LT	INLETS, TYPE B	TYPE 1 FRAME, OPEN LID	644.70		637.72		637.54

NOTE: ALL RIM AND INVERT ELEVATIONS FOR TEMPORARY STRUCTURES SHALL BE VERIFIED IN FIELD.

JT546200	SLOTTED DRAINS TO BE CLEANED					TOTAL (FOOT) 7043
FROM STA	OFFSET		TO STA	OFFSET		LENGTH (FT)
936+54.8	89.2	RT	937+72.7	89.5	RT	123
941+04.5	79.6	LT	941+65.1	76.7	LT	61
941+70.1	76.8	LT	942+97.5	75.8	LT	121
943+02.4	75.8	LT	944+32.4	75.9	LT	130
944+37.4	75.9	LT	945+67.2	75.9	LT	130
945+72.2	76.0	LT	946+16.5	75.8	LT	42
946+21.5	75.7	LT	947+12.5	75.9	LT	91
947+17.5	76.2	LT	949+22.4	76.1	LT	205
949+27.4	76.1	LT	952+92.4	76.1	LT	365
952+97.4	76.2	LT	956+17.5	76.2	LT	320
956+22.6	76.2	LT	956+66.9	76.1	LT	44
956+72.0	76.1	LT	959+17.0	76.0	LT	191
956+75.6	1.8	RT	956+87.9	1.9	RT	13
959+22.1	76.0	LT	960+42.5	76.1	LT	118
960+47.6	76.0	LT	961+67.7	76.1	LT	118
961+72.8	76.1	LT	962+92.9	76.1	LT	118
962+98.0	76.1	LT	964+17.4	76.1	LT	117
964+22.5	76.1	LT	965+42.0	76.5	LT	117
964+25.4	1.9	RT	964+37.7	2.1	RT	13
965+47.1	76.4	LT	966+67.9	76.4	LT	119
966+73.0	76.4	LT	967+93.0	76.4	LT	118
967+98.1	76.5	LT	969+17.6	76.3	LT	117
969+22.7	76.5	LT	970+42.9	76.1	LT	118
970+48.0	76.4	LT	971+67.9	76.6	LT	118
971+73.0	76.5	LT	974+13.5	76.0	LT	238
971+75.2	1.9	RT	971+87.6	2.1	RT	13
974+18.5	76.2	LT	976+62.2	76.0	LT	244
976+67.2	76.0	LT	979+12.4	75.9	LT	246
976+69.1	1.9	LT	980+34.0	1.3	LT	369
1011+41	0.0	-	1010+51	0.0	-	90
1010+51	0.0	-	1010+00	0.0	-	51
995+68	1.5	LT	998+18	1.5	LT	250
1002+85	1.5	LT	1006+02	1.5	LT	317
947+51	1.5	LT	946+00	1.5	LT	151
951+18	1.5	LT	949+28	1.5	LT	190
954+90	1.5	LT	952+98	1.5	LT	192
956+97	1.5	LT	956+72	1.5	LT	25
959+35	1.5	LT	959+23	1.5	LT	12
964+58	1.5	LT	964+23	1.5	LT	35
973+80	1.5	LT	971+70	1.5	LT	210
986+00	1.5	LT	983+20	1.5	LT	280
939+00	0.0	-	940+24	0.0	-	124
940+30	0.0	-	941+68	0.0	-	138
942+14	0.0	-	941+68	0.0	-	46
942+14	0.0	-	946+00	0.0	-	386
1012+24	0.0	-	1011+41	0.0	-	83
1013+36	0.0	-	1012+24	0.0	-	112
1013+97	0.0	-	1013+36	0.0	-	61
1014+84	0.0	-	1013+97	0.0	-	87
1015+50	0.0	-	1014+84	0.0	-	66

DRAWN BY GG DATE 05/26/2020
CHECKED BY AM DATE 05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
TEMPORARY DRAINAGE SCHEDULE
DRN-03
DRAWING NO. 217 OF 1762

STORM SEWER REMOVAL SCHEDULE											
DRAWING	PAY ITEM NO.	FROM STATION	OFFSET		TO STATION	OFFSET		LENGTH (FT)	DIA (IN)	TRENCH BACKFILL (CU YD)
DRN-37	55100700	937+77.7	89.2	RT	937+92.8	160.5	RT	72	15	24
DRN-37	55100900	939+33.5	88.9	LT	940+29.5	85.1	LT	94	18	95
DRN-37	55101200	938+68.5	2.2	LT	940+27.1	15.0	LT	173	24	121
DRN-37	55102000	940+70.0	92.6	LT	942+38.2	97.2	LT	168	54	942
DRN-37	55101200	941+68.5	1.6	LT	941+68.2	27.5	LT	26	24	15
DRN-38	55101200	942+38.2	97.2	LT	942+37.2	108.4	LT	10	24	5
DRN-38	55100700	943+00.0	75.8	LT	943+00.0	108.6	LT	32	15	11
DRN-38	55100700	944+34.9	75.9	LT	944+35.9	100.9	LT	24	15	8
DRN-38	55101100	945+69.7	75.9	LT	945+70.3	95.6	LT	16	21	6
DRN-38	55102000	942+38.2	97.2	LT	946+78.0	101.1	LT	440	54	1283
DRN-38	55101100	945+69.7	75.9	LT	945+94.9	75.9	LT	25	21	13
DRN-38	55100700	945+99.1	1.7	LT	945+95.0	75.9	LT	73	15	23
DRN-38	55100900	945+95.0	75.9	LT	946+19.0	75.8	LT	25	18	12
DRN-38	55100700	946+19.0	75.8	LT	947+12.5	75.9	LT	94	15	41
DRN-38	55100700	949+28.2	2.3	LT	949+24.8	101.4	LT	101	15	61
DRN-38	55100700	952+98.7	2.5	LT	952+94.9	101.1	LT	100	15	49
DRN-39	55100700	956+20.1	76.2	LT	956+66.9	76.1	LT	44	15	19
DRN-39	55100900	956+69.4	76.1	LT	956+69.8	98.1	LT	21	18	8
DRN-39	55100700	956+73.0	1.9	LT	956+69.4	76.1	LT	75	15	24
DRN-39	55100700	956+69.4	76.1	LT	957+19.7	76.0	LT	45	15	20
DRN-39	55100900	959+22.9	2.0	LT	959+20.5	55.5	LT	54	18	23
DRN-39	55100900	961+72.3	1.9	LT	961+71.2	55.5	LT	58	18	25
DRN-39	55100700	962+95.5	76.1	LT	962+96.2	97.9	LT	21	15	7
DRN-39	55100900	964+23.1	1.8	LT	964+20.8	55.5	LT	58	18	26
DRN-39	55100700	965+44.6	76.5	LT	965+44.9	98.7	LT	21	15	7
DRN-39	55100900	966+72.8	1.9	LT	966+71.1	55.5	LT	57	18	25
DRN-39	55100700	967+95.7	76.5	LT	967+95.2	96.6	LT	19	15	7
DRN-40	55100900	969+22.7	2.0	LT	969+19.8	95.6	LT	94	18	31
DRN-40	55100700	970+45.5	76.3	LT	970+45.9	95.0	LT	18	15	6
DRN-40	55100900	971+72.7	1.8	LT	971+70.5	95.6	LT	94	18	30
DRN-40	55100700	974+16.1	76.1	LT	974+15.6	99.9	LT	23	15	8
DRN-40	55100900	976+66.6	1.9	LT	976+64.5	102.6	LT	101	18	36
DRN-40	55100700	979+89.4	76.7	LT	979+89.7	99.9	LT	23	15	7
DRN-40	55100700	979+86.2	76.4	RT	979+86.2	111.3	LT	34	15	12
DRN-41	55100900	983+19.4	3.2	LT	983+14.5	55.5	LT	52	18	52
DRN-41	55100700	983+15.0	96.5	RT	983+14.8	114.3	RT	18	15	-
DRN-41	55100700	986+81.4	75.9	LT	986+84.8	115.3	LT	39	15	7
DRN-41	55101200	990+32.5	110.7	LT	990+18.9	141.5	LT	38	24	-
DRN-41	55100500	990+20.2	113.0	RT	990+65.2	73.5	RT	57	12	-
DRN-41	55100500	990+04.7	79.7	RT	990+65.2	73.5	RT	61	12	-
DRN-41	55100500	990+65.2	73.5	RT	991+65.2	73.6	RT	100	12	-

STORM SEWER REMOVAL SCHEDULE										
DRAWING	PAY ITEM NO.	FROM STATION	OFFSET		TO STATION	OFFSET		LENGTH (FT)	DIA (IN)	TRENCH BACKFILL (CU YD)
DRN-41	55100500	991+65.2	73.6	RT	992+20.0	73.8	RT	54	12	-
DRN-42	55100700	995+15.5	76.0	LT	995+14.8	117.3	LT	41	15	9
DRN-42	55100700	997+03.5	78.5	RT	998+80.8	78.3	RT	173	15	164
DRN-42	55100700	998+80.8	78.3	RT	998+79.9	109.6	RT	30	15	10
DRN-42	55100900	998+15.9	112.5	RT	998+37.7	111.2	RT	20	18	-
DRN-42	55100500	998+35.9	133.2	RT	998+37.7	111.2	RT	22	12	-
DRN-42	55100900	998+37.5	111.4	RT	998+79.8	111.6	RT	38	18	-
DRN-42	55101200	998+37.7	111.2	RT	1004+64.8	109.6	RT	618	24	-
DRN-42	55100900	998+17.5	2.8	LT	998+15.6	54.2	LT	56	18	25
DRN-42	55100700	1002+15.1	76.0	LT	1002+14.8	112.3	LT	36	15	11
DRN-42	55100700	1002+36.1	77.8	RT	1002+34.8	110.5	RT	30	15	10
DRN-42	55100700	1002+36.1	77.8	RT	1006+21.3	78.0	RT	380	15	676
DRN-42	55100700	1006+02.1	0.0		1006+21.2	19.5	RT	39	15	20
DRN-42	55100900	1006+21.8	93.4	RT	1006+22.1	104.6	RT	10	18	4
DRN-42	55100700	1006+14.8	111.3	LT	1006+15.4	74.2	LT	36	15	44
DRN-42	55101400	1006+15.4	74.2	LT	1007+65.1	75.9	LT	145	30	227
DRN-43	55100700	1007+65.1	75.9	LT	1009+95.3	78.0	LT	225	15	251
DRN-43	55102000	1007+62.0	7.0	LT	1011+28.0	7.6	LT	352	54	760
DRN-43	55100700	1008+10.9	2.3	LT	1010+51.7	0.0		238	15	*
DRN-43	55101200	1010+51.7	0.0		1011+41.4	0.0		90	24	*
DRN-43	55101200	1011+28.0	7.6	LT	1011+41.0	6.3	LT	13	24	18
DRN-43	55100700	1009+04.3	77.2	LT	1009+19.7	106.7	LT	30	15	13
DRN-43	55101900	1008+20.5	108.2	LT	1011+39.8	89.0	LT	309	48	331
DRN-43	55101600	1009+16.3	98.3	LT	1010+00.9	79.1	LT	99	36	162
DRN-43	55101400	1010+00.9	79.1	RT	1013+58.4	103.0	RT	358	30	672
DRN-43	55101600	1013+58.4	103.0	RT	1014+57.1	116.7	RT	102	36	207
DRN-43	55101600	1014+57.1	116.7	RT	1014+86.4	125.2	RT	29	36	56
DRN-43	55100900	1011+43.8	81.4	LT	1014+03.5	87.0	LT	242	18	353
DRN-43	55100700	1014+03.5	87.0	LT	1014+95.2	87.0	LT	89	15	49
DRN-43	55101600	1011+41.0	6.3	LT	1011+41.3	81.3	LT	82	36	*
DRN-43	55100700	1014+95.2	87.0	LT	1014+95.6	93.9	LT	7	15	4
DRN-43	55101400	1011+41.4	0.0		1012+24.0	0.0		83	30	151
DRN-43	55101600	1012+23.9	0.0		1013+97.2	8.7	LT	174	36	295
DRN-43	55100500	1013+35.9	10.3	LT	1013+36.2	2.7	LT	7	12	3
DRN-43	55100500	1013+97.0	8.7	LT	1013+97.3	2.1	LT	6	12	3
DRN-43	55101400	1013+97.2	8.7	LT	1017+26.6	8.1.	LT	336	30	282
DRN-43	55100500	1014+83.7	8.6	LT	1014+83.7	2.5	LT	6	12	3
DRN-43	55100500	1015+71.0	2.4	LT	1015+71.4	8.1	LT	6	21	3
DRN-43	55100700	1016+11.7	178.0	RT	1016+14.8	186.0	RT	8	15	5
DRN-45	55100900	1037+20.2	206.5	LT	1037+50.1	208.4	LT	34	18	-
					TOTAL TRENCH BACKFILL (CU YD)					7909

* - Trench backfill accounted for on proposed storm sewer schedule

SLOTTED DRAIN REMOVAL (JI551010)						
FROM STA	OFFSET		TO STA	OFFSET		LENGTH (FT)
941+04.5	79.6	LT	941+65.1	76.7	LT	61
941+70.1	76.8	LT	942+97.5	75.8	LT	121
943+02.4	75.8	LT	944+32.4	75.9	LT	130
944+37.4	75.9	LT	945+67.2	75.9	LT	130
945+72.2	76.0	LT	946+16.5	75.8	LT	42
946+21.5	75.7	LT	947+12.5	75.9	LT	91
947+17.5	76.2	LT	949+22.4	76.1	LT	205
949+27.4	76.1	LT	952+92.4	76.1	LT	365
952+97.4	76.2	LT	956+17.5	76.2	LT	320
956+22.6	76.2	LT	956+66.9	76.1	LT	44
956+72.0	76.1	LT	959+17.0	76.0	LT	191
956+75.6	1.8	RT	956+87.9	1.9	RT	13
959+22.1	76.0	LT	960+42.5	76.1	LT	118
960+47.6	76.0	LT	961+67.7	76.1	LT	118
961+72.8	76.1	LT	962+92.9	76.1	LT	118
962+98.0	76.1	LT	964+17.4	76.1	LT	117
964+22.5	76.1	LT	965+42.0	76.5	LT	117
964+25.4	1.9	RT	964+37.7	2.1	RT	13
965+47.1	76.4	LT	966+67.9	76.4	LT	119
966+73.0	76.4	LT	967+93.0	76.4	LT	118
967+98.1	76.5	LT	969+17.6	76.3	LT	117
969+22.7	76.5	LT	970+42.9	76.1	LT	118
970+48.0	76.4	LT	971+67.9	76.6	LT	118
971+73.0	76.5	LT	974+13.5	76.0	LT	238
971+75.2	1.9	RT	971+87.6	2.1	RT	13
974+18.5	76.2	LT	976+62.2	76.0	LT	244

SLOTTED DRAIN REMOVAL (JI551010)						
FROM STA	OFFSET		TO STA	OFFSET		LENGTH (FT)
976+67.2	76.0	LT	979+12.4	75.9	LT	246
976+69.1	1.9	LT	980+34.0	1.3	LT	369
1011+41	0.0	-	1010+51	0.0	-	90
1010+51	0.0	-	1010+00	0.0	-	51
995+68	1.5	LT	998+18	1.5	LT	250
1002+85	1.5	LT	1006+02	1.5	LT	317
947+51	1.5	LT	946+00	1.5	LT	151
951+18	1.5	LT	949+28	1.5	LT	190
954+90	1.5	LT	952+98	1.5	LT	192
956+97	1.5	LT	956+72	1.5	LT	25
959+35	1.5	LT	959+23	1.5	LT	12
964+58	1.5	LT	964+23	1.5	LT	35
973+80	1.5	LT	971+70	1.5	LT	210
986+00	1.5	LT	983+20	1.5	LT	280
939+00	0	-	940+24	0	-	124
940+30	0.0	-	941+68	0.0	-	138
942+14	0.0	-	941+68	0.0	-	46
942+14	0.0	-	946+00	0.0	-	386
1012+24	0.0	-	1011+41	0.0	-	83
1013+36	0.0	-	1012+24	0.0	-	112
1013+97	0.0	-	1013+36	0.0	-	61
1014+84	0.0	-	1013+97	0.0	-	87
1015+50	0.0	-	1014+84	0.0	-	66
			TOTAL (FOOT)			6920

50105220	PIPE CULVERT REMOVAL SCHEDULE						TOTAL (FOOT)		180
DRAWING	FROM STATION	OFFSET		TO STATION	OFFSET		LENGTH (FT)	DIA (IN)	TRENCH BACKFILL (CU YD)
DRN-38	947+70.00	10	LT	947+70.00	10	RT	20	60	20.7
DRN-39	957+09.3	105.0	LT	957+50.9	102.0	LT	40	24	25.9
DRN-39	959+42.8	96.6	LT	960+06.9	96.0	LT	63	36	49.0
DRN-42	1006+93.5	84.2	LT	1006+85.6	107.8	LT	25	42	21.1
DRN-43	1007+43.4	72.1	RT	1007+53.3	102.1	RT	32	42	27.0
					TOTAL TRENCH BACKFILL (CU YD)				144

DRAWN BY	DM	DATE	05/26/2020
CHECKED BY	AM	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE REMOVAL SCHEDULE

DRN-35
DRAWING NO.

DRAINAGE STRUCTURE AND HEADWALL SCHEDULE

PAY ITEM	STRUCTURE NO.	STATION	OFFSET	STRUCTURE TYPE	FRAME AND GRATE	RIM ELEVATION	INVERT ELEVATION NORTH	INVERT ELEVATION EAST	INVERT ELEVATION SOUTH	INVERT ELEVATION WEST
JI680073	S101	937+15.8	236.8 RT	HEADWALL TYPE III, 54", 1:3	-	-			599.75	
JT602400	S102	939+97.0	165.0 RT	MANHOLES, TYPE A, 10'-DIAMETER	TYPE 8 GRATE (SPECIAL)	613.38	599.96		599.96	609.00
JI602183	S103	937+99.0	121.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	622.67		609.50		618.00
60200105	S104	937+76.7	89.0 RT	CATCH BASIN TYPE A, 4' DIAMETER	TYPE 1 FRAME, OPEN LID			618.37		
JT602400	S105	940+99.0	145.6 RT	MANHOLES, TYPE A, 10'-DIAMETER	TYPE 8 GRATE (SPECIAL)	613.60	601.00		600.30	609.10
JI602184	S106	941+00.0	114.2 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	620.48		609.21	614.44	
JI602184	S107	940+69.3	114.7 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	620.65	614.83		614.83	
JI602190	S108	939+62.7	115.4 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	620.40	616.38		616.38	
JI602190	S109	939+01.0	117.3 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	621.84	617.26			
JI602362	S110	940+82.4	92.0 LT	MANHOLES, TYPE A, 9'-DIAMETER	TYPE 20A FRAME AND GRATE	621.28			600.14	601.56
JT602335	S111	940+84.3	113.0 LT	MANHOLES, TYPE A, 9'-DIAMETER	TYPE 8 GRATE (SPECIAL)	613.69	601.60	601.60		
JI602740	S112	940+10.6	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	622.45 LT | 622.53 RT	616.72		616.72	
JI602740	S113	938+68.5	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	622.81 LT | 623.21 RT	617.23		617.23	
OMITTED	S114									
JT602330	S201	942+44.9	138.6 RT	MANHOLES, TYPE A, 7'-DIAMETER	TYPE 8 GRATE (SPECIAL)	612.78	602.50		601.68	609.00
JI602184	S202	942+45.9	111.6 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	619.75		609.18		
JT602330	S203	944+58.0	128.8 RT	MANHOLES, TYPE A, 7'-DIAMETER	TYPE 8 GRATE (SPECIAL)	614.57	604.50		603.52	610.10
JI602184	S204	943+94.0	108.9 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	619.10	613.50			
60224459	S205	947+88.6	118.7 RT	MANHOLES, TYPE A, 8'-DIAMETER	TYPE 1 FRAME, CLOSED LID	615.99	608.40		608.40	609.30
JI602206	S206	947+89.9	100.9 RT	CATCH BASINS, TYPE A 5 FT DIAMETER	TYPE G-3 FRAME AND GRATE	617.87	611.95	609.40	612.04	611.50
JI602190	S207	947+45.4	101.7 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.92	612.44		612.44	
JI602190	S208	947+16.3	102.2 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.97	612.71		612.71	
JI602190	S209	948+40.6	100.0 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.91	612.40		612.15	
JI602190	S210	949+21.5	98.6 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.18	613.00		613.00	
JI602740	S211	947+89.8	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	618.96 LT | 619.43 RT	613.13	612.63	613.13	
JI602740	S212	948+36.5	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	618.92 LT | 619.46 RT	613.35		613.35	
JI602184	S213	949+08.0	0.0	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	619.00	613.95		613.70	
JI602745	S214	948+01.9	0.0	DRAINAGE STRUCTURES, TYPE 5	TWO TYPE 22A FRAME AND GRATE	618.95 LT | 619.42 RT	613.18		613.18	
JI602740	S215	947+17.0	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	619.15 LT | 619.58 RT	613.66		613.66	
JI680028	S216	949+14.5	148.9 RT	HEADWALL TYPE III, 54", 1:6	-	-	609.00			
JI680135	S217	950+75.5	160.9 RT	SLOPED HEADWALL, TYPE III, 24", 1:4	-	-			610.50	
JI602350	S218	951+16.1	161.7 RT	MANHOLES, TYPE A, 8' DIAMETER, RESTRICTOR PLATE	TWO TYPE 1 FRAME, CLOSED LID	619.00	611.38		611.38	
JI680145	S219	951+63.5	162.7 RT	SLOPED HEADWALL TYPE III, 24", 1:6	-	-	612.50			
JI680135	S220	952+88.2	170.7 RT	SLOPED HEADWALL, TYPE III, 24", 1:4	-	-		613.00		
JI602183	S221	952+91.7	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	622.22		614.00		614.00
JI602185	S222	952+90.6	3.5 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	621.60	614.49	614.49		
JI602184	S223	953+24.7	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	621.79	614.70		614.70	
JI602184	S224	953+57.8	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	621.97	614.90		614.90	
JI602184	S225	954+23.5	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	622.32	615.40		615.40	
JI602184	S226	954+73.2	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	622.55	615.79		615.79	
OMITTED	S227									
JI602740	S228	942+40.4	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	621.44 RT | 621.32 LT			615.86	615.86
JI602183	S229	942+40.6	90.1 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	620.18		615.00		608.00
JT602400	S230	942+42.0	109.1 LT	MANHOLES, TYPE A, 10'-DIAMETER	TYPE 8 GRATE (SPECIAL)	613.44	602.50	607.90	602.50	604.51
JT602330	S231	944+76.9	116.8 LT	MANHOLES, TYPE A, 7'-DIAMETER	TYPE 8 GRATE (SPECIAL)	615.61	603.57	610.85	603.07	
OMITTED	S232									
JI602190	S233	946+02.2	93.3 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.37	613.86			
JT602300	S234	648+29.1	115.6 LT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 8 GRATE (SPECIAL)	614.64	604.41	609.00	604.41	
JI602190	S235	947+16.6	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.87	613.04		613.29	
JI602190	S236	947+76.6	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.70	612.75		612.75	
JI602190	S237	948+06.6	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.67	612.61		612.61	
JI602337	S238	948+29.5	93.5 LT	MANHOLES, TYPE A, 7' DIAMETER	TYPE G-3 FRAME AND GRATE	617.66	612.75		612.50	609.14
JI602190	S239	948+51.6	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.68	612.85		612.85	
JI602190	S240	949+04.1	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	617.79			613.11	
JT602300	S241	949+99.8	113.1 LT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 8 GRATE (SPECIAL)	613.46	604.83	609.00	604.83	
OMITTED	S242									
JT602300	S243	952+85.6	122.0 LT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 8 GRATE (SPECIAL)	615.45	605.52	610.00	605.52	
JI602190	S244	950+01.7	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.23	613.14			609.14
JI602190	S245	951+13.5	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.79			614.24	
JI602183	S246	952+86.7	93.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	619.65				610.21
JI602183	S247	944+78.3	92.2 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	618.91			612.25	611.02
JI602190	S248	945+80.0	104.6 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.43	614.03			
JI602740	S249	944+74.7	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	620.25 LT | 620.53 RT	615.45			
JI602190	S250	950+08.5	97.1 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.70			613.64	
JI680007	S251	948+40.2	151.2 RT	HEADWALL TYPE I, 36"	-					613.00
JI602190	S252	946+70.2	103.1 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.13	613.15		613.15	
JI602740	S253	950+95.7	1.7 LT	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	620.17 LT | 620.52 RT			614.87	
JI602120	S254	943+77.5	91.3 LT	CATCH BASINS, TYPE G-3	TYPE G-3 FRAME AND GRATE	619.39	613.23			
JI602190	S255	944+59.8	106.8 RT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	618.84		610.20	613.12	
60224459	S256	948+46.4	127.5 RT	MANHOLES, TYPE A, 8' DIAMETER	TYPE 1 FRAME, CLOSED LID	618.00	608.75	612.72	608.75	
JI602184	S301	955+50.9	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	622.83	616.31		616.31	
JI602184	S302	956+54.7	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	623.21	617.51		617.01	
JI602184	S303	957+43.3	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	623.68	618.19		618.19	
JI602184	S304	958+99.0	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	624.53	619.03		619.03	
JI602184	S305	959+89.2	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.02	619.55		619.55	
JI602184	S306	960+80.0	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.52			620.03	
60223800	S307	955+04.8	122.1 RT	MANHOLES, TYPE A, 6'-DIAMETER	TYPE 1 FRAME, CLOSED LID	624.10	612.57	612.57		
OMITTED	S308									
60218400	S309	959+00.0	123.0 RT	MANHOLES, TYPE A, 4'-DIAMETER	TYPE 1 FRAME, CLOSED LID	620.50	613.25		613.25	
JI602350	S310	962+92.4	129.0 RT	MANHOLES, TYPE A, 8' DIAMETER, RESTRICTOR PLATE	TWO TYPE 1 FRAME, CLOSED LID	619.85		613.93	613.93	
JI602184	S311	962+06.5	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.21	619.36			
JI602184	S312	963+04.9	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.75	618.65		618.90	
JI602344	S313	965+35.0	3.5 RT	MANHOLE, TYPE A, 7 FT DIAMETER	TYPE 20A FRAME AND GRATE	627.92	616.02	616.02	617.52	
JI602185	S314	965+35.0	94.5 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	632.10	615.97	614.97		615.47

DRAWN BY	DM	DATE	05/26/2020
CHECKED BY	AM	DATE	05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE STRUCTURE SCHEDULE

DRN-46

DRAWING NO. 260 OF 1762

DRAINAGE STRUCTURE AND HEADWALL SCHEDULE

PAY ITEM	STRUCTURE NO.	STATION	OFFSET		STRUCTURE TYPE	FRAME AND GRATE	RIM ELEVATION	INVERT ELEVATION			
								NORTH	EAST	SOUTH	WEST
JI680021	S315	965+35.0	155.6	RT	HEADWALL TYPE III, 42", 1:4	-	-		614.50		
JI602185	S316	967+99.0	3.5	RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	627.36	617.32		617.32	
OMITTED	S317										
OMITTED	S318										
JT602300	S319	956+73.7	110.8	LT	MANHOLES, TYPE A, 6'-DIAMETER	TYPE 8 GRATE (SPECIAL)	615.11	606.86	609.65	606.86	
JT602300	S320	958+73.3	113.1	LT	MANHOLES, TYPE A, 6'-DIAMETER	TYPE 8 GRATE (SPECIAL)	616.41	607.51	610.75	607.51	
JI602183	S321	958+76.1	93.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	620.87				611.17
JT602300	S322	959+94.6	112.6	LT	MANHOLES, TYPE A, 6'-DIAMETER	TYPE 8 GRATE (SPECIAL)	616.81	607.90	611.25	607.90	
JI602183	S323	959+97.7	93.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	621.49	615.00			611.51
JI602120	S324	961+14.2	93.5	LT	CATCH BASINS, TYPE G-3	TYPE G-3 FRAME AND GRATE	622.07			616.12	
JT602300	S325	962+41.7	117.9	LT	MANHOLES, TYPE A, 6'-DIAMETER	TYPE 8 GRATE (SPECIAL)	616.00	609.21	611.50	608.71	
JI602183	S326	962+42.5	93.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	622.71				611.82
60204505	S327	963+82.3	119.2	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 8 GRATE	617.73	609.67	612.50	609.67	
JI602183	S328	963+82.4	93.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE G-3 FRAME AND GRATE	623.41				612.85
60204505	S329	967+05.4	115.2	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 8 GRATE	618.39	610.75	613.50	610.75	
JI602120	S330	967+05.8	93.5	LT	CATCH BASINS, TYPE G-3	TYPE G-3 FRAME AND GRATE	623.52				613.77
JI602190	S331	955+37.6	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	620.03	615.20			
JI602190	S332	955+82.5	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	619.96	614.98		614.98	
JI602190	S333	956+20.9	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	619.86	614.80		614.80	
JI602190	S334	956+43.9	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	619.82	614.69		614.69	
JI602337	S335	956+74.6	93.5	LT	MANHOLES, TYPE A, 7' DIAMETER	TYPE G-3 FRAME AND GRATE	619.88	614.80		614.55	609.76
JI602190	S336	957+51.7	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	620.25			615.53	
JI602184	S337	962+39.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.39	619.21		619.21	
JI680137	S340	963+06.7	157.1	RT	SLOPED HEADWALL, TYPE III, 30", 1:4	-	-				614.00
60223800	S341	963+06.8	133.0	RT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 1 FRAME, CLOSED LID	619.57		613.95	613.95	
JI680137	S342	955+04.0	164.3	RT	SLOPED HEADWALL TYPE III, 30", 1:4	-	-		612.50		
JI602184	S401	969+42.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.65	618.01		618.01	
JI602184	S402	970+52.4	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.10	618.40		618.40	
JI602184	S403	971+40.2	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.66	618.71		618.71	
JI602184	S404	972+15.2	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.29	618.98		618.98	
JI602184	S405	972+69.4	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.13	619.17		619.17	
JI602184	S406	972+99.2	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.12	619.27		619.27	
JI602184	S407	973+29.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.17	619.68		619.37	
JI602184	S408	973+78.3	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.37	620.00		620.00	
JI602344	S409	975+05.9	3.5	RT	MANHOLE, TYPE A, 7'-DIAMETER	TYPE 20A FRAME AND GRATE	626.31	621.00		621.00	
JI602184	S410	975+48.9	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	626.80	621.57		621.57	
JI602184	S411	976+25.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	627.91	622.59		622.59	
JI602184	S412	977+00.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	629.31	623.84		623.59	
JI602184	S413	977+80.0	3.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.03	625.36		625.36	
JI602184	S414	978+10.6	3.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.82	625.90		625.90	
JI602740	S415	979+00.0	0.0		DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	634.20 LT | 634.30 RT	628.85		627.60	
JI602184	S416	969+08.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.05	618.24		618.24	
JI602184	S417	972+99.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	627.90	620.62		620.62	
JI602184	S418	975+96.8	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	628.07	622.43		622.38	
JI602184	S419	976+34.7	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	628.38	622.63		622.63	
JI602184	S420	976+85.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	628.90	622.94		622.91	
JI602184	S421	977+17.1	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	629.30	623.91		623.11	
JI602184	S422	977+51.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	629.79	624.56		624.36	
JI602184	S423	977+81.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.30	625.15		624.95	
JI602184	S424	978+25.0	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.19	626.00		625.75	
JI602184	S425	979+27.6	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	633.75	628.36		627.50	
JI602184	S426	980+61.4	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	637.32	631.48		630.31	
60204505	S427	968+52.6	112.8	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 8 GRATE	619.15	611.23	614.60	611.23	
JI602120	S428	968+52.7	93.6	LT	CATCH BASINS, TYPE G-3	TYPE G-3 FRAME AND GRATE	622.78				614.83
60204505	S429	972+38.4	106.1	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 8 GRATE	619.07	613.03	614.03	612.53	
JI602190	S430	969+88.7	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	622.10	617.45			
JI602190	S431	971+22.6	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	621.43	616.55		616.80	
JI602190	S432	971+97.7	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	621.08	616.19		616.19	
JI602190	S433	972+15.0	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	621.06	615.62		616.12	
JI602332	S434	972+38.1	93.5	LT	MANHOLE, TYPE A, 6 FT DIAMETER	TYPE G-3 FRAME AND GRATE	621.08	616.00		615.50	614.12
JI602190	S435	972+91.2	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	621.39	616.50		616.25	
JI602190	S436	973+88.8	93.5	LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	622.40			617.07	
JI602206	S437	975+04.0	93.5	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE G-3 FRAME AND GRATE	624.02	618.00			615.29
60204505	S438	975+03.0	111.3	LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 8 GRATE	621.82	615.06	615.06	614.06	
60200805	S439	976+68.8	116.2	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 8 GRATE	622.83			617.48	
JI602184	S440	977+24.3	94.4	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	628.09	622.32		622.32	
JI602184	S441	979+78.0	94.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	635.05	629.50		627.32	
JI602184	S442	976+54.8	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	628.43	622.98		622.98	
JI602184	S443	975+87.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	627.31	622.08		622.08	
JI602184	S444	974+16.4	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	625.59	620.39		620.24	
JI602184	S501	981+53.6	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	639.78	633.81		633.24	
JI602184	S502	983+31.5	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	644.54	638.87		638.37	
JI602184	S503	981+73.0	94.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	640.48	633.32		633.32	
60200205	S504	989+39.2	110.0	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 1 FRAME, CLOSED LID	630.50	625.92	625.92		
60200205	S505	990+33.7	110.3	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 1 FRAME, CLOSED LID	631.00	623.72		625.00	
JI680142	S506	986+16.9	111.7	RT	SLOPED HEADWALL TYPE III, 15", 1:6	-	-	626.88			
JI602184	S507	984+14.0	94.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	647.19			638.06	
JI602184	S508	986+45.0	94.5	LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	651.91			646.29	
JI602184	S509	981+50.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	641.01	635.00		635.00	
JI602184	S510	984+00.0	3.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	647.70	641.15		641.15	
JI602740	S511	985+69.4	0.0		DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	651.78 RT | 652.30 LT			645.28	
JI602184	S512	981+94.8	94.5	RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	640.89	635.20		634.70	
JI680142	S513	985+53.3	110.5	RT	SLOPED HEADWALL TYPE III, 15", 1:6	-	-			626.57	
JI680145	S601	998+00.0	110.6	RT	SLOPED HEADWALL TYPE III, 24", 1:6	-	-			627.00	

PLOT TIME = 1:40:20 PM PLOT DATE = 7/2/2020 PLOT SCALE = 100.0000 '/ in. FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SG1\30 - C01 - 4296-3\01 - DDN\12 - SHT\4296-C01-SHT-DRN47-HM.dgn

DRAWN BY	DM	DATE	05/26/2020
CHECKED BY	AM	DATE	05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE STRUCTURE SCHEDULE

DRN-47

DRAWING NO. 261 OF 1762

DRAINAGE STRUCTURE AND HEADWALL SCHEDULE

PAY ITEM	STRUCTURE NO.	STATION	OFFSET	STRUCTURE TYPE	FRAME AND GRATE	RIM ELEVATION	INVERT ELEVATION			
							NORTH	EAST	SOUTH	WEST
JI602184	S602	998+31.6	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	647.23	641.97			
JI602740	S603	999+50.0	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	646.39 RT | 646.75 LT	641.22			
JI602184	S604	1000+00.0	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	644.14	639.00		639.00	
60200805	S605	998+37.9	110.2 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 8 GRATE	630.12	626.76	FIELD VERIFY	626.76	
JI602184	S606	1001+07.0	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	642.20	637.16		637.16	
JI602184	S607	1002+05.8	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	640.39	635.45		635.45	
JI602184	S608	1003+13.1	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	638.44	633.60		633.60	
JI602184	S609	1006+24.8	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	632.93		623.60	628.19	
OMITTED	S610									
JI602335	S611	1004+90.0	94.5 RT	MANHOLE, TYPE A, 6'-DIAMETER	TYPE 20A FRAME AND GRATE	635.21	627.95	622.20	630.50	
60223800	S612	1004+89.8	107.3 RT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 1 FRAME, CLOSED LID	627.54		621.70	624.74	622.00
JI680020	S613	1004+92.7	132.7 RT	HEADWALL, TYPE III, 36", 1:4	-			621.50		
JI602184	S614	1005+36.2	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	634.38	627.64		627.57	629.08
OMITTED	S615									
OMITTED	S616									
JI602740	S617	1005+35.0	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	635.62 LT | 635.72 RT		630.66	630.66	
OMITTED	S618									
JI602740	S619	1004+70.0	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	635.62 LT | 635.72 RT	631.77		631.77	
JI602740	S620	1003+69.5	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	638.76 LT | 638.73 RT	633.54		633.79	
JI602740	S621	1001+92.0	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	642.14 LT | 641.97 RT	636.92		636.92	
JI602184	S622	1000+00.0	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	644.48	639.40			
JI602184	S623	1002+39.0	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	639.93	634.92		635.17	
JI602184	S624	1003+66.8	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	637.50	632.69		632.69	
JI602184	S625	1004+53.1	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	635.86	631.21		631.21	
JI680123	S626	1004+66.6	111.8 LT	SLOPED HEADWALL TYPE III, 18", 1:3	-	-		623.67		
JI680022	S627	1006+19.8	149.0 RT	HEADWALL TYPE III, 48", 1:4	-	-			621.50	
JI602350	S628	1006+49.8	134.8 RT	MANHOLES, TYPE A, 8' DIAMETER, RESTRICTOR PLATE	TWO TYPE 1 FRAME, CLOSED LID	629.00	621.24		621.28	
JI680022	S629	1006+81.3	119.8 RT	HEADWALL TYPE III, 48", 1:4	-	-	621.00			
60200805	S630	1001+62.7	113.6 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 8 GRATE	633.92	624.74		624.74	
JI680010	S631	1006+84.0	113.2 LT	HEADWALL TYPE II, 42"	-					621.09
JI680070	S701	1007+94.0	112.5 RT	HEADWALL TYPE III, 36", 1:3	-	-		620.62		
JI602185	S702	1007+85.0	94.5 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	630.56	620.73	620.70		
JI602184	S703	1011+90.4	99.2 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	633.00	622.69		622.69	
JI602185	S704	1014+88.4	125.5 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	632.16			624.20	624.26
JI602740	S705	1007+61.3	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	632.10 RT | 632.20 LT	627.00			
JI602185	S706	1008+39.8	3.5 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	631.17	626.25		626.25	
JI602184	S707	1008+00.0	94.5 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.24	625.30			
JI602190	S708	1009+20.8	93.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	629.17	624.10		624.10	
JI602184	S709	1008+40.1	95.1 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	629.77	624.88		624.88	
JI602185	S710	1011+41.3	4.8 RT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	630.64	623.47		623.48	622.93
JI680027	S711	1008+14.9	113.9 LT	HEADWALL TYPE III, 48", 1:6	-	-			622.28	
JT602335	S712	1010+71.2	111.6 LT	MANHOLES, TYPE A, 9'-DIAMETER	TYPE 8 GRATE (SPECIAL)	632.55	622.70	622.70	622.70	
JT602330	S713	1012+03.5	106.9 LT	MANHOLES, TYPE A, 7'-DIAMETER	TYPE 8 GRATE (SPECIAL)	629.41	625.16	622.92	622.92	
JI602190	S714	1010+23.3	93.4 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	627.94	623.00		623.11	
JI602190	S715	1010+47.8	93.2 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	627.76	622.91		622.91	
JI602332	S716	1010+71.0	92.9 LT	MANHOLE, TYPE A, 6 FT DIAMETER	TYPE G-3 FRAME AND GRATE	627.70	622.80		622.80	622.80
JI602190	S717	1011+09.3	92.6 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	627.80	622.88		622.88	
JI602190	S718	1011+25.8	92.4 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	627.85			622.95	
JI602337	S719	1012+02.4	91.6 LT	MANHOLES, TYPE A, 7' DIAMETER	TYPE G-3 FRAME AND GRATE	628.10	622.96			622.96
JI602190	S720	1013+13.1	90.5 LT	CATCH BASINS, TYPE G-3 (MODIFIED)	TYPE G-3 FRAME AND GRATE	628.48	623.38		623.38	
JI602120	S721	1014+03.3	89.5 LT	CATCH BASINS, TYPE G-3	TYPE G-3 FRAME AND GRATE	629.10	623.73		623.73	
JI602184	S722	1015+03.1	86.0 LT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.63	624.64		624.50	
JI602740	S723	1009+03.7	0.0	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	630.70 RT | 630.64 LT	622.90		622.90	
JI602184	S724	1009+69.9	3.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.48	623.05		623.05	
JI602184	S725	1010+16.4	3.6 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.40	623.18		623.18	
JI602184	S726	1010+63.3	4.0 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.43	623.30		623.30	
JI602184	S727	1011+18.3	4.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.56	623.90		623.90	
JI602184	S728	1012+20.7	5.6 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.00	623.95		623.95	
JI602184	S729	1013+25.7	6.7 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.31	624.60		624.60	
JI602184	S730	1014+21.1	7.7 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.60	625.19		625.19	
JI602740	S731	1015+51.3	4.5 RT	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	631.81 LT | 631.98 RT	626.02		626.02	
JI602740	S732	1016+11.9	4.5 RT	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	631.95 LT | 632.17 RT	626.39		626.39	
JI602740	S733	1016+54.1	4.5 RT	DRAINAGE STRUCTURES, TYPE 4	TWO TYPE 20A FRAME AND GRATE	632.09 LT | 632.18 RT	627.18		626.64	
JT602330	S734	1011+41.4	106.9 LT	MANHOLE, TYPE A, 7' DIAMETER	TYPE 8 GRATE (SPECIAL)	629.31	622.79	622.79	622.79	
OMITTED	S735									
JI602185	S736	1011+17.6	96.3 LT	CATCH BASINS, TYPE A, 5' DIAMETER	TYPE 20A FRAME AND GRATE	632.49	622.34		622.34	
OMITTED	S737									
JI680143	S738	1013+00.0	104.7 LT	SLOPED HEADWALL TYPE III, 18", 1:6	-	-	627.00			
OMITTED	S739									
60200805	S740	1016+11.2	177.9 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 8 GRATE	631.44				FIELD VERIFY
JI680010	S741	1007+54.9	108.8 RT	HEADWALL TYPE II, 42"	-			620.79		
JI602184	S742	1009+09.7	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.31	621.23		621.23	
JI602184	S743	1008+60.0	94.5 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	630.12	621.09		621.09	
JI602335	S744	1008+40.1	94.5 RT	MANHOLE, TYPE A, 6 FT DIAMETER	TYPE 20A FRAME AND GRATE	630.17	620.94		620.94	
60200805	S801	1022+12.0	308.0 RT	CATCH BASINS, TYPE A, 4' DIAMETER	TYPE 20A FRAME AND GRATE	631.44				FIELD VERIFY
JI680070	S901	1035+66.9	212.5 LT	HEADWALL TYPE III, 36", 1:3	-	-			622.98	
JT602300	S902	1036+04.5	168.0 LT	MANHOLES, TYPE A, 6' DIAMETER	TYPE 8 GRATE (SPECIAL)	629.00	622.76		622.76	
60221100	S903	1036+82.5	182.4 LT	MANHOLES, TYPE A, 5' DIAMETER	TYPE 1 FRAME, CLOSED LID	632.00	622.42		622.42	
60221100	S904	1037+16.4	205.6 LT	MANHOLES, TYPE A, 5' DIAMETER	TYPE 1 FRAME, CLOSED LID	631.00	622.24	622.24	628.49	
JI680025	S905	1037+90.5	220.2 LT	HEADWALL TYPE III, 36" 1:6	-	-	622.00			
OMITTED	S906									

STORM SEWER SCHEDULE

PIPE NO.	PAY ITEM NO.	PIPE DESCRIPTION	OFFSET	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE	TRENCH BACKFILL (CUYD)
P101	OMITTED									
P102	550A0490	STORM SEWERS, CLASS A, RCP		2	54	92	0.20%	S102	S101	
P103	550A0660	STORM SEWERS, CLASS A, RCP		3	15	33	1.50%	S103	S102	
P104	550A0360	STORM SEWERS, CLASS A, RCP		2	15	37	1.00%	S104	S103	7
P105	54010603	PRECAST CONCRETE BOX CULVERTS, 6'X3'			6X3	294	0.11%	S105	S102	
P106	550A0380	STORM SEWERS, CLASS A, RCP		2	18	23	0.50%	S106	S105	
P107	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	26	1.50%	S107	S106	8
P108	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	103	1.50%	S108	S107	19
P109	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	59	1.50%	S109	S108	7
P110	550A1090	STORM SEWERS, CLASS A, RCP		4	54	8	2.34%	S110	EX. SEWER - INV. 599.95	38
P111	550A1090	STORM SEWERS, CLASS A, RCP		4	54	6	0.60%	S111	S110	19
P112	550A0410	STORM SEWERS, CLASS A, RCP	0	2	24	227	0.37%	S112	S228	57
P113	550A0410	STORM SEWERS, CLASS A, RCP	0	2	24	139	0.37%	S113	S112	184
P201	550A0490	STORM SEWERS, CLASS A, RCP		2	54	138	0.50%	S201	S105	
P202	550A0360	STORM SEWERS, CLASS A, RCP		2	15	18	1.00%	S202	S201	
P203	550A0490	STORM SEWERS, CLASS A, RCP		2	54	205	0.50%	S203	S201	
P204	550A0360	STORM SEWERS, CLASS A, RCP		2	15	63	0.60%	S204	S255	17
P205	550A0490	STORM SEWERS, CLASS A, RCP		2	54	322	0.50%	S205	S203	
P206	550A0430	STORM SEWERS, CLASS A, RCP		2	30	8	1.25%	S206	S205	
P207	550A0410	STORM SEWERS, CLASS A, RCP	1.5' LT	2	24	40	1.00%	S207	S206	10
P208	550A0380	STORM SEWERS, CLASS A, RCP	1.5' LT	2	18	27	1.00%	S208	S207	7
P209	550A0380	STORM SEWERS, CLASS A, RCP	1.5' LT	2	18	47	0.75%	S209	S206	14
P210	550A0380	STORM SEWERS, CLASS A, RCP	1.5' LT	2	18	79	0.75%	S210	S209	18
P211	550A0410	STORM SEWERS, CLASS A, RCP		2	24	94	1.20%	S211	S206	34
P212	550A0380	STORM SEWERS, CLASS A, RCP	2.5' RT	2	18	33	0.50%	S212	S211	10
P213	550A0380	STORM SEWERS, CLASS A, RCP	2.5' LT	2	18	69	0.50%	S213	S212	17
P214	550A0380	STORM SEWERS, CLASS A, RCP	2.5' RT	2	18	10	0.50%	S214	S211	3
P215	550A0380	STORM SEWERS, CLASS A, RCP	2.5' RT	2	18	71	0.75%	S215	S214	20
P216	550A0490	STORM SEWERS, CLASS A, RCP		2	54	36	0.70%	S216	S256	
P217	OMITTED									
P218	550A0410	STORM SEWERS, CLASS A, RCP		2	24	26	2.50%	S218	S217	
P219	550A0410	STORM SEWERS, CLASS A, RCP		2	24	26	2.50%	S219	S218	
P220	OMITTED									
P221	550A0410	STORM SEWERS, CLASS A, RCP		2	24	55	1.50%	S221	S220	
P222	550A0410	STORM SEWERS, CLASS A, RCP		2	24	89	0.55%	S222	S221	70
P223	550A0410	STORM SEWERS, CLASS A, RCP		2	24	30	0.70%	S223	S222	14
P224	550A0410	STORM SEWERS, CLASS A, RCP		2	24	31	0.65%	S224	S223	15
P225	550A0410	STORM SEWERS, CLASS A, RCP		2	24	62	0.80%	S225	S224	28
P226	550A0410	STORM SEWERS, CLASS A, RCP		2	24	46	0.85%	S226	S225	20
P227	OMITTED									
P228	550A0410	STORM SEWERS, CLASS A, RCP		2	24	86	1.00%	S228	S229	18
P229	550A0410	STORM SEWERS, CLASS A, RCP		2	24	10	1.00%	S229	S230	
P230	550A0490	STORM SEWERS, CLASS A, RCP		2	54	150	0.60%	S230	S111	
P231	550A0490	STORM SEWERS, CLASS A, RCP		2	54	229	0.25%	S231	S230	
P232	OMITTED									
P233	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	113	0.50%	S233	S235	16
P234	550A0480	STORM SEWERS, CLASS A, RCP		2	48	346	0.25%	S234	S231	121
P235	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	58	0.50%	S235	S236	10
P236	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	28	0.50%	S236	S237	6
P237	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	21	0.50%	S237	S238	5
P238	550A0410	STORM SEWERS, CLASS A, RCP		2	24	14	1.00%	S238	S234	
P239	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	20	0.50%	S239	S238	4
P240	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	51	0.50%	S240	S239	9
P241	550A0480	STORM SEWERS, CLASS A, RCP		2	48	165	0.25%	S241	S234	
P242	OMITTED									
P243	550A0480	STORM SEWERS, CLASS A, RCP		2	48	278	0.25%	S243	S241	
P244	550A0360	STORM SEWERS, CLASS A, RCP		2	15	14	1.00%	S244	S241	
P245	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	110	1.00%	S245	S244	19
P246	550A0360	STORM SEWERS, CLASS A, RCP		2	15	21	1.00%	S246	S243	
P247	550A0380	STORM SEWERS, CLASS A, RCP		2	18	17	1.00%	S247	S231	
P248	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	88	1.00%	S248	S252	14
P249	550A0380	STORM SEWERS, CLASS A, RCP	2.5' LT	2	18	239	0.75%	S249	S215	50
P250	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	85	0.75%	S250	S210	18
P251	550A0450	STORM SEWERS, CLASS A, RCP		2	36	14	2.00%	S251	S256	
P252	550A0360	STORM SEWERS, CLASS A, RCP	1.5' LT	2	15	44	1.00%	S252	S208	9
P253	550A0360	STORM SEWERS, CLASS A, RCP		2	15	184	0.50%	S253	S213	43
P254	550A0360	STORM SEWERS, CLASS A, RCP		2	15	98	1.00%	S254	S247	35
P255	550A0360	STORM SEWERS, CLASS A, RCP		2	15	12	1.00%	S255	S203	
P256	550A0490	STORM SEWERS, CLASS A, RCP		2	54	50	0.70%	S256	S205	
P301	550A0410	STORM SEWERS, CLASS A, RCP		2	24	74	0.70%	S301	S226	29
P302	550A0410	STORM SEWERS, CLASS A, RCP		2	24	100	0.70%	S302	S301	35
P303	550A0380	STORM SEWERS, CLASS A, RCP		2	18	85	0.80%	S303	S302	17
P304	550A0380	STORM SEWERS, CLASS A, RCP		2	18	152	0.55%	S304	S303	37
P305	550A0380	STORM SEWERS, CLASS A, RCP		2	18	86	0.60%	S305	S304	21
P306	550A0380	STORM SEWERS, CLASS A, RCP		2	18	87	0.55%	S306	S305	21
P307	550A0430	STORM SEWERS, CLASS A, RCP		2	30	34	0.17%	S307	S342	
P308	OMITTED									
P309	550A0410	STORM SEWERS, CLASS A, RCP		2	24	270	0.17%	S309	S307	
P310	550A0410	STORM SEWERS, CLASS A, RCP		2	24	400	0.17%	S310	S309	
P311	550A0360	STORM SEWERS, CLASS A, RCP		2	15	29	0.50%	S311	S337	13
P312	550A0380	STORM SEWERS, CLASS A, RCP		2	18	226	0.50%	S312	S313	239

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DRAWN BY DM DATE 05/26/2020
CHECKED BY AM DATE 05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE PIPE SCHEDULE

DRN-49
DRAWING NO.
263 OF 1762

STORM SEWER SCHEDULE

PIPE NO.	PAY ITEM NO.	PIPE DESCRIPTION	OFFSET	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE	TRENCH BACKFILL (CUYD)
P313	550A0750	STORM SEWERS, CLASS A, RCP		3	36	85	0.65%	S313	S314	201
P314	550A0470	STORM SEWERS, CLASS A, RCP		2	42	48	0.65%	S314	S315	
P316	550A0750	STORM SEWERS, CLASS A, RCP		3	36	259	0.50%	S316	S313	402
P317	OMITTED									
P318	OMITTED									
P319	550A0480	STORM SEWERS, CLASS A, RCP		2	48	382	0.35%	S319	S243	
P320	550A0480	STORM SEWERS, CLASS A, RCP		2	48	188	0.35%	S320	S319	
P321	550A0360	STORM SEWERS, CLASS A, RCP		2	15	14	3.00%	S321	S320	
P322	550A0480	STORM SEWERS, CLASS A, RCP		2	48	112	0.35%	S322	S320	
P323	550A0380	STORM SEWERS, CLASS A, RCP		2	18	13	2.00%	S323	S322	
P324	550A0360	STORM SEWERS, CLASS A, RCP		2	15	112	1.00%	S324	S323	38
P325	550A0480	STORM SEWERS, CLASS A, RCP		2	48	232	0.35%	S325	S322	
P326	550A0360	STORM SEWERS, CLASS A, RCP		2	15	21	1.50%	S326	S325	
P327	550A0470	STORM SEWERS, CLASS A, RCP		2	42	131	0.35%	S327	S325	
P328	550A0360	STORM SEWERS, CLASS A, RCP		2	15	23	1.50%	S328	S327	
P329	550A0470	STORM SEWERS, CLASS A, RCP		2	42	308	0.35%	S329	S327	
P330	550A0360	STORM SEWERS, CLASS A, RCP		2	15	18	1.50%	S330	S329	
P331	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	43	0.50%	S331	S332	8
P332	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	36	0.50%	S332	S333	7
P333	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	21	0.50%	S333	S334	5
P334	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	28	0.50%	S334	S335	6
P335	550A0410	STORM SEWERS, CLASS A, RCP		2	24	11	1.00%	S335	S319	
P336	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	73	1.00%	S336	S335	14
P337	550A0360	STORM SEWERS, CLASS A, RCP		2	15	62	0.50%	S337	S312	46
P340	550A0430	STORM SEWERS, CLASS A, RCP		2	30	18	0.17%	S340	S341	
P341	550A0430	STORM SEWERS, CLASS A, RCP		2	30	8	0.17%	S341	S310	
P401	550A0430	STORM SEWERS, CLASS A, RCP		2	30	138	0.50%	S401	S316	158
P402	550A0430	STORM SEWERS, CLASS A, RCP		2	30	106	0.37%	S402	S401	93
P403	550A0430	STORM SEWERS, CLASS A, RCP		2	30	84	0.37%	S403	S402	41
P404	550A0430	STORM SEWERS, CLASS A, RCP		2	30	71	0.37%	S404	S403	26
P405	550A0430	STORM SEWERS, CLASS A, RCP		2	30	50	0.37%	S405	S404	14
P406	550A0430	STORM SEWERS, CLASS A, RCP		2	30	26	0.37%	S406	S405	6
P407	550A0430	STORM SEWERS, CLASS A, RCP		2	30	27	0.37%	S407	S406	6
P408	550A0410	STORM SEWERS, CLASS A, RCP		2	24	46	0.70%	S408	S407	9
P409	550A0410	STORM SEWERS, CLASS A, RCP		2	24	87	0.70%	S409	S444	17
P410	550A0380	STORM SEWERS, CLASS A, RCP		2	18	38	1.50%	S410	S409	9
P411	550A0380	STORM SEWERS, CLASS A, RCP		2	18	34	1.50%	S411	S443	8
P412	550A0380	STORM SEWERS, CLASS A, RCP		2	18	41	1.50%	S412	S442	11
P413	550A0360	STORM SEWERS, CLASS A, RCP		2	15	76	2.00%	S413	S412	20
P414	550A0360	STORM SEWERS, CLASS A, RCP		2	15	27	2.00%	S414	S413	8
P415	550A0360	STORM SEWERS, CLASS A, RCP	2.5' LT	2	15	85	2.00%	S415	S414	29
P416	550A0730	STORM SEWERS, CLASS A, RCP		3	30	378	0.60%	S416	S314	827
P417	550A0430	STORM SEWERS, CLASS A, RCP		2	30	396	0.60%	S417	S416	472
P418	550A0430	STORM SEWERS, CLASS A, RCP		2	30	294	0.60%	S418	S417	101
P419	550A0430	STORM SEWERS, CLASS A, RCP		2	30	34	0.60%	S419	S418	8
P420	550A0430	STORM SEWERS, CLASS A, RCP		2	30	46	0.60%	S420	S419	11
P421	550A0410	STORM SEWERS, CLASS A, RCP		2	24	28	0.60%	S421	S420	9
P422	550A0410	STORM SEWERS, CLASS A, RCP		2	24	30	1.50%	S422	S421	7
P423	550A0410	STORM SEWERS, CLASS A, RCP		2	24	26	1.50%	S423	S422	5
P424	550A0410	STORM SEWERS, CLASS A, RCP		2	24	40	1.50%	S424	S423	8
P425	550A0410	STORM SEWERS, CLASS A, RCP		2	24	98	1.50%	S425	S424	25
P426	550A0410	STORM SEWERS, CLASS A, RCP		2	24	130	1.50%	S426	S425	43
P427	550A0470	STORM SEWERS, CLASS A, RCP		2	42	138	0.35%	S427	S329	
P428	550A0360	STORM SEWERS, CLASS A, RCP		2	15	15	1.50%	S428	S427	
P429	550A0470	STORM SEWERS, CLASS A, RCP		2	42	370	0.35%	S429	S427	
P430	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	129	0.50%	S430	S431	20
P431	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	71	0.50%	S431	S432	12
P432	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	15	0.50%	S432	S433	3
P433	550A0410	STORM SEWERS, CLASS A, RCP	1.5' RT	2	24	20	0.60%	S433	S434	5
P434	550A0410	STORM SEWERS, CLASS A, RCP		2	24	9	1.00%	S434	S429	
P435	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	50	0.50%	S435	S434	10
P436	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	95	0.60%	S436	S435	20
P437	550A0410	STORM SEWERS, CLASS A, RCP		2	24	14	1.70%	S437	S438	
P438	550A0430	STORM SEWERS, CLASS A, RCP		2	36	258	0.40%	S438	S429	
P439	550A0410	STORM SEWERS, CLASS A, RCP		2	24	161	1.50%	S439	S438	49
P440	550A0380	STORM SEWERS, CLASS A, RCP		2	18	216	2.00%	S440	S437	64
P441	550A0380	STORM SEWERS, CLASS A, RCP		2	18	250	2.00%	S441	S440	101
P442	550A0380	STORM SEWERS, CLASS A, RCP		2	18	26	1.50%	S442	S411	6
P443	550A0380	STORM SEWERS, CLASS A, RCP		2	18	34	1.50%	S443	S410	8
P444	550A0410	STORM SEWERS, CLASS A, RCP		2	24	34	0.70%	S444	S408	7
P445	OMITTED									
P501	550A0380	STORM SEWERS, CLASS A, RCP		2	18	88	2.00%	S501	S426	30
P502	550A0360	STORM SEWERS, CLASS A, RCP		2	15	132	2.40%	S502	S512	40
P503	550A0380	STORM SEWERS, CLASS A, RCP		2	18	191	2.00%	S503	S441	68
P504	550A0360	STORM SEWERS, CLASS A, RCP		2	15	28	1.50%	S504	S505	
P505	550A0360	STORM SEWERS, CLASS A, RCP		2	15	78	1.50%	S505	EX STR	
P506	542A0220	PIPE CULVERTS, CLASS A, RCP		1	15	39	0.50%	S506	S513	
P507	550A0380	STORM SEWERS, CLASS A, RCP		2	18	237	2.00%	S507	S503	203
P508	550A0360	STORM SEWERS, CLASS A, RCP		2	15	309	2.40%	S508	S502	82
P509	550A0360	STORM SEWERS, CLASS A, RCP	2.5' RT	2	15	246	2.50%	S509	S415	67
P510	550A0360	STORM SEWERS, CLASS A, RCP	VARIES	2	15	246	2.50%	S510	S509	84

DRAWN BY	DM	DATE	05/26/2020
CHECKED BY	AM	DATE	05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE PIPE SCHEDULE

DRN-50

DRAWING NO.

STORM SEWER SCHEDULE										
PIPE NO.	PAY ITEM NO.	PIPE DESCRIPTION	OFFSET	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE	TRENCH BACKFILL (CUYD)
P511	550A0360	STORM SEWERS, CLASS A, RCP	2.5' RT	2	15	165	2.50%	S511	S510	61
P512	550A0360	STORM SEWERS, CLASS A, RCP		2	15	37	2.40%	S512	S501	12
P601	550A0410	STORM SEWERS, CLASS A, RCP		2	24	18	0.63%	S601	S605	
P602	550A0380	STORM SEWERS, CLASS A, RCP		2	18	165	1.80%	S602	S604	34
P603	550A0360	STORM SEWERS, CLASS A, RCP	2.5' RT	2	15	239	1.80%	S603	S621	39
P604	550A0380	STORM SEWERS, CLASS A, RCP		2	18	102	1.80%	S604	S606	20
P605	550A0410	STORM SEWERS, CLASS A, RCP		2	24	320	0.63%	S605	S630	
P606	550A0380	STORM SEWERS, CLASS A, RCP		2	18	95	1.80%	S606	S607	18
P607	550A0380	STORM SEWERS, CLASS A, RCP		2	18	103	1.80%	S607	S608	18
P608	550A0380	STORM SEWERS, CLASS A, RCP		2	18	172	1.80%	S608	S611	27
P609	550A0410	STORM SEWERS, CLASS A, RCP		2	24	10	1.00%	S609	S625	15
P610	OMITTED									
P611	550A0730	STORM SEWERS, CLASS A, RCP		3	30	10	2.00%	S611	S612	12
P612	550A0450	STORM SEWERS, CLASS A, RCP		2	36	13	0.85%	S612	S613	
P614	550A0410	STORM SEWERS, CLASS A, RCP		2	24	42	1.50%	S614	S611	16
P615	OMITTED									
P616	OMITTED									
P617	550A0380	STORM SEWERS, CLASS A, RCP		2	18	88	1.80%	S617	S614	18
P618	OMITTED									
P619	550A0380	STORM SEWERS, CLASS A, RCP	2.5' RT	2	18	62	1.80%	S619	S617	7
P620	550A0380	STORM SEWERS, CLASS A, RCP	2.5' RT	2	18	98	1.80%	S620	S619	21
P621	550A0360	STORM SEWERS, CLASS A, RCP	2.5' RT	2	15	174	1.80%	S621	S620	35
P622	550A0360	STORM SEWERS, CLASS A, RCP		2	15	235	1.80%	S622	S623	43
P623	550A0380	STORM SEWERS, CLASS A, RCP		2	18	124	1.80%	S623	S624	21
P624	550A0380	STORM SEWERS, CLASS A, RCP		2	18	82	1.80%	S624	S625	13
P625	550A0680	STORM SEWERS, CLASS A, RCP		3	18	168	1.80%	S625	S609	24
P626	OMITTED									
P627	550A0480	STORM SEWERS, CLASS A, RCP		2	48	16	0.75%	S627	S628	
P628	550A0480	STORM SEWERS, CLASS A, RCP		2	48	18	0.75%	S628	S629	
P629	OMITTED									
P630	550A0410	STORM SEWERS, CLASS A, RCP		2	24	323	0.63%	S630	S612	
P631	542A1087	PIPE CULVERTS, CLASS A, RCP		2	42	25	0.12%	S631	CONNECT TO EX	30
P702	550A0450	STORM SEWERS, CLASS A, RCP		2	36	12	0.50%	S702	S701	
P703	550A0450	STORM SEWERS, CLASS A, RCP		2	36	70	0.50%	S703	S736	96
P704	550A0450	STORM SEWERS, CLASS A, RCP		2	36	301	0.50%	S704	S703	331
P705	550A0360	STORM SEWERS, CLASS A, RCP	2.5' RT	2	15	75	1.00%	S705	S706	19
P706	550A0360	STORM SEWERS, CLASS A, RCP		2	15	60	1.00%	S706	S723	53
P707	550A0360	STORM SEWERS, CLASS A, RCP		2	15	42	1.00%	S707	S709	8
P708	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	99	1.00%	S708	S714	19
P709	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	78	1.00%	S709	S708	15
P710	550A0450	STORM SEWERS, CLASS A, RCP		2	36	109	0.13%	S710	S734	
P712	550A4710	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE		1	48 EQRS	223	0.16%	S712	S711	
P713	550A5300	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE		2	36 EQRS	55	0.24%	S713	S734	
P714	550A4900	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE	1.5' RT	2	24 EQRS	23	0.40%	S714	S715	2
P715	550A4900	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE	1.5' RT	2	24 EQRS	20	0.55%	S715	S716	1
P716	550A5300	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE		2	36 EQRS	14	0.70%	S716	S712	5
P717	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	35	0.23%	S717	S716	7
P718	550A0360	STORM SEWERS, CLASS A, RCP	1.5' RT	2	15	14	0.50%	S718	S717	3
P719	550A5100	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE		2	30 EQRS	11	0.40%	S719	S713	
P720	550A4900	STORM SEWERS, CLASS A, RCP, EQUIVALENT ROUND SIZE	1.0' RT	2	24 EQRS	106	0.40%	S720	S719	14
P721	550A0380	STORM SEWERS, CLASS A, RCP	1.5' RT	2	18	86	0.40%	S721	S720	19
P722	550A0360	STORM SEWERS, CLASS A, RCP		2	15	96	0.80%	S722	S721	27
P723	550A0360	STORM SEWERS, CLASS A, RCP	0	2	15	63	1.00%	S723	S724	49
P724	550A0360	STORM SEWERS, CLASS A, RCP		2	15	43	1.00%	S724	S725	33
P725	550A0380	STORM SEWERS, CLASS A, RCP		2	18	43	1.00%	S725	S726	21
P726	550A0380	STORM SEWERS, CLASS A, RCP		2	18	51	1.00%	S726	S727	24
P727	550A0410	STORM SEWERS, CLASS A, RCP		2	24	19	1.00%	S727	S710	9
P728	550A0410	STORM SEWERS, CLASS A, RCP		2	24	75	0.64%	S728	S710	35
P729	550A0410	STORM SEWERS, CLASS A, RCP		2	24	101	0.64%	S729	S728	43
P730	550A0410	STORM SEWERS, CLASS A, RCP		2	24	92	0.64%	S730	S729	35
P731	550A0410	STORM SEWERS, CLASS A, RCP	0	2	24	129	0.64%	S731	S730	40
P732	550A0410	STORM SEWERS, CLASS A, RCP	0	2	24	58	0.64%	S732	S731	15
P733	550A0410	STORM SEWERS, CLASS A, RCP	0	2	24	39	0.64%	S733	S732	9
P734	550A0470	STORM SEWERS, CLASS A, RCP		2	42	62	0.15%	S734	S712	51
P735	550A0410	STORM SEWERS, CLASS A, RCP		2	24	60	0.65%	EX	S733	8
P736	550A0450	STORM SEWERS, CLASS A, RCP		2	36	222	0.50%	S736	S742	270
P737	OMITTED									
P738	550A0380	STORM SEWERS, CLASS A, RCP		2	18	71	2.00%	S738	S713	
P739	550A0360	STORM SEWERS, CLASS A, RCP		2	15	18	3.49%	S739	S704	
P741	OMITTED									
P742	550A0450	STORM SEWERS, CLASS A, RCP		2	36	27	0.50%	S742	S743	30
P743	550A0450	STORM SEWERS, CLASS A, RCP		2	36	30	0.50%	S743	S744	33
P744	550A0450	STORM SEWERS, CLASS A, RCP		2	36	41	0.50%	S744	S702	49
P745	542A1087	PIPE CULVERTS, CLASS A, RCP		2	42	35	0.12%	CONNECT TO EX	S741	52
P901	550A0450	STORM SEWERS, CLASS A, RCP		2	36	44	0.50%	S901	S902	
P902	550A0450	STORM SEWERS, CLASS A, RCP		2	36	68	0.50%	S902	S903	
P903	550A0450	STORM SEWERS, CLASS A, RCP		2	36	36	0.50%	S903	S904	
P904	550A0450	STORM SEWERS, CLASS A, RCP		2	36	47	0.50%	S904	S905	
							TOTAL TRENCH BACKFILL (CUYD)			6911

PLOT TIME = 12:46:36 PM PLOT DATE = 7/7/2020 PLOT SCALE = 100.0000 '/ in. FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-S01\30 - C01 - 4296-3\01 - DGN\12 - SHT\4296-C01-SHT-DRN51-MML.dgn

DRAWN BY	DM	DATE	05/26/2020
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LOCHNER
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225 WEST WASHINGTON STREET 12TH FLOOR
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

DRAINAGE PIPE SCHEDULE

DRN-51

DRAWING NO.

265 OF 1762

Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED		EXISTING RIM ELEVATION	TEMPORARY RIM ELEVATION	FINAL RIM ELEVATION	TOTAL (EACH)	4
DRAWING	STA	OFFSET				SUBTOTAL (EACH)	
DRN-12	945+99.1	0.0	620.08	620.65		1	
DRN-12	949+20.1	0.0	620.61	620.59		1	
DRN-60	1017+33.5	3.3 LT	632.34		632.42	1	
DRN-60	1017+65.0	2.3 LT	632.42		632.51	1	

60252800	CATCH BASINS TO BE RECONSTRUCTED		EXISTING RIM ELEVATION	TEMPORARY RIM ELEVATION	FINAL RIM ELEVATION	TOTAL (EACH)	2
DRAWING	STA	OFFSET				SUBTOTAL (EACH)	
DRN-60	1018+00.0	1.1 LT	628.03		632.60	1	
DRN-60	1018+35.0	0.0	628.10		632.65	1	

JI602606	DRAINAGE STRUCTURES TO BE RECONSTRUCTED WITH TYPE 20A FRAME AND GRATE		EXISTING RIM ELEVATION	TEMPORARY RIM ELEVATION	FINAL RIM ELEVATION	TOTAL (EACH)	4
DRAWING	STA	OFFSET				SUBTOTAL (EACH)	
DRN-54	937+16.2	99.6 LT	622.71		622.82	1	
DRN-54	937+80.1	96.4 LT	622.46		622.61	1	
DRN-54	938+72.7	91.8 LT	622.12		622.3	1	
DRN-54	939+33.5	90.0 LT	622.06		622.05	1	

X0322918	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER			TOTAL (EACH)	21
DRAINAGE STRUCTURE	STA	OFFSET		SUBTOTAL (EACH)	
S104	937+76.7	89.0	RT	1	
S113	938+68.5			1	
S230	942+42.0	106.5	LT	1	
S301T	0959+21.1	41.6	LT	1	
S302T	0959+22.2	20.3	LT	1	
S303T	961+71.3	39.9	LT	1	
S304T	961+71.8	18.6	LT	1	
S305T	964+21.5	38.4	LT	1	
S306T	964+22.5	16.9	LT	1	
S307T	966+71.6	37.3	LT	1	
S308T	966+72.4	16.8	LT	1	
S502T	983+15.5	36.1	LT	1	
S503T	983+16.7	14.5	LT	1	
S601T	998+16.2	36.1	LT	1	
S602T	998+16.7	14.6	LT	1	
S605	998+37.9	110.2	RT	1	
S722	1015+03.1	86.0	LT	1	
S704	1014+88.4	125.5	RT	1	
S740	1016+11.2	178.6	RT	1	
S801	1022+12.0	309.5	RT	1	
S904	1037+16.4	205.6	LT	1	

X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER		TOTAL (EACH)	4
DRAWING	STA	OFFSET	SUBTOTAL (EACH)	
DRN-24	1011+41.2	58.7 LT	1	
DRN-31	1011+41.0	14.6 LT	1	
DRN-54	940+70.0	92.6 LT	1	
DRN-60	1017+07.0	0.0 -	1	

X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE		TOTAL (EACH)	2
DRN-08	0983+15.7	76.8 RT	1	
DRN-12	0946+00.0	2.7 RT	1	

54248510	CONCRETE COLLAR		TOTAL (CU YD)	2.0
DRAWING	STA	OFFSET	SUBTOTAL (CU YD)	
DRN-59	1006+93.3	84.2 LT	1.0	
DRN-60	1007+43.4	72.1 RT	1.0	

STORM SEWERS TO BE CLEANED

DRAWING	PAY ITEM NO.	FROM STATION	OFFSET		TO STATION	OFFSET		LENGTH (FT)	DIA (IN)
DRN-54	X5537900	935+00.0	112.5	LT	937+16.5	100.7	LT	217	15
DRN-54	X5537900	937+16.5	100.7	LT	937+80.3	97.4	LT	64	15
DRN-54	X5538000	937+80.3	97.4	LT	937+82.1	124.9	LT	28	18
DRN-54	X5537900	938+72.9	93.0	LT	939+33.6	88.9	LT	61	15
DRN-54	X5538900	930+06.2	251.7	LT	931+13.5	155.4	LT	163	54
DRN-54	X5538900	931+13.5	155.4	LT	931+89.1	242.7	LT	115	54
DRN-54	X5538900	931+89.1	242.7	LT	934+92.3	132.0	LT	295	54
DRN-54	X5538900	934+92.3	132.0	LT	936+99.4	111.0	LT	238	54
DRN-54	X5538900	936+99.4	111.0	LT	939+33.6	88.9	LT	235	54
DRN-54	X5538900	939+33.6	88.9	LT	940+70.0	92.6	LT	137	54
DRN-60	X5538600	1014+91.0	125.3	RT	1016+04.4	159.6	RT	121	36
DRN-60	X5537900	1016+04.4	159.6	RT	1016+11.7	178.1	RT	20	15

54215979	REINFORCED CONCRETE PIPE ELBOW 24"			TOTAL (EACH)	2
PIPE	STA	OFFSET		DEGREE	SUBTOTAL (EACH)
P409	974+24.0	10.6	RT	45°	1
P730	1013+37.7	9.3	RT	15°	1

DRAWN BY	DM	DATE	05/26/2020
CHECKED BY	AM	DATE	05/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

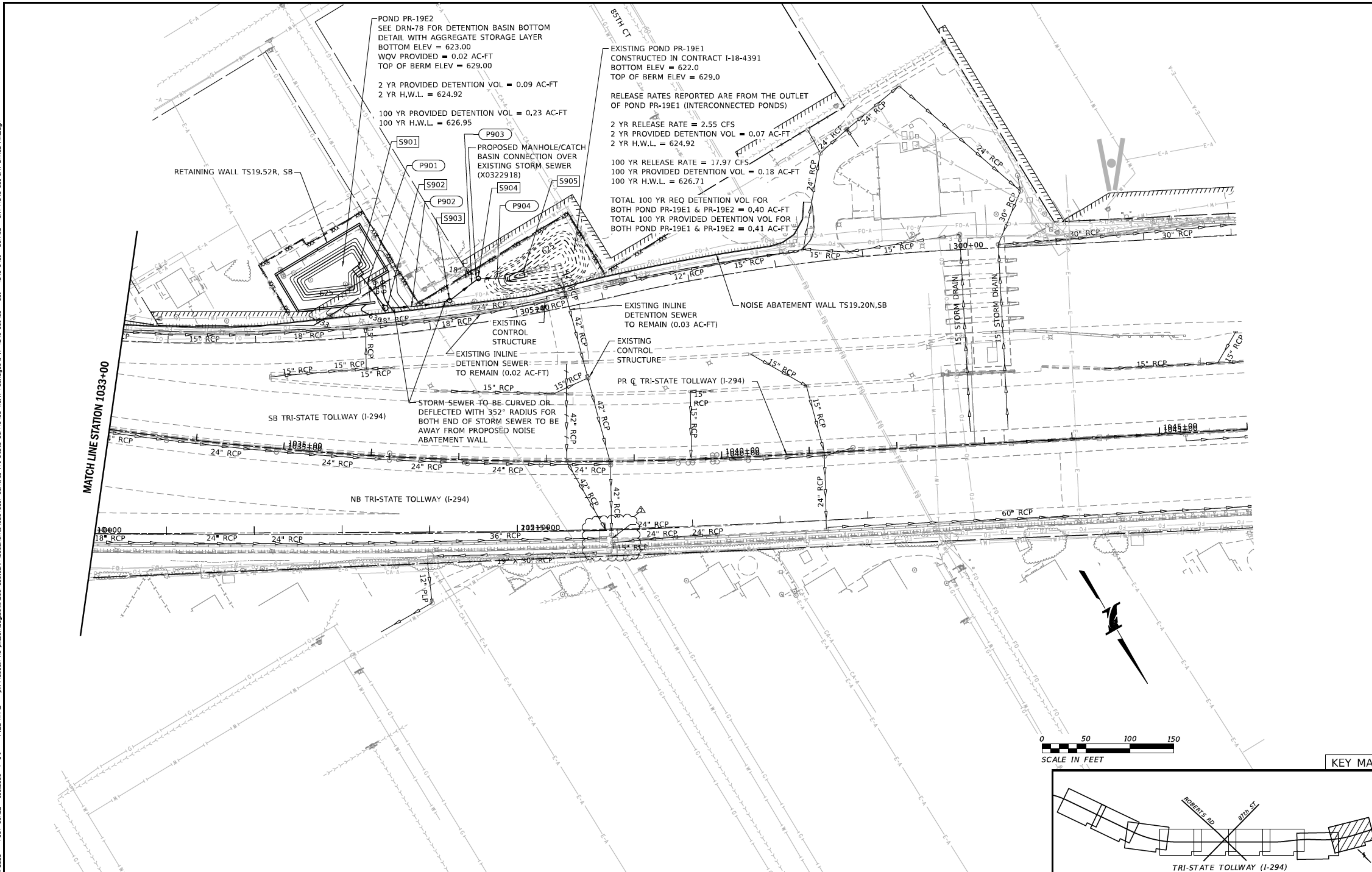
REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

MISCELLANEOUS DRAINAGE SCHEDULE

DRN-52
DRAWING NO.
266 OF 1762


POND PR-19E2
SEE DRN-78 FOR DETENTION BASIN BOTTOM DETAIL WITH AGGREGATE STORAGE LAYER
BOTTOM ELEV = 623.00
WQV PROVIDED = 0.02 AC-FT
TOP OF BERM ELEV = 629.00
2 YR PROVIDED DETENTION VOL = 0.09 AC-FT
2 YR H.W.L. = 624.92
100 YR PROVIDED DETENTION VOL = 0.23 AC-FT
100 YR H.W.L. = 626.95
85TH CT
EXISTING POND PR-19E1
CONSTRUCTED IN CONTRACT I-18-4391
BOTTOM ELEV = 622.0
TOP OF BERM ELEV = 629.0
RELEASE RATES REPORTED ARE FROM THE OUTLET OF POND PR-19E1 (INTERCONNECTED PONDS)
2 YR RELEASE RATE = 2.55 CFS
2 YR PROVIDED DETENTION VOL = 0.07 AC-FT
2 YR H.W.L. = 624.92
100 YR RELEASE RATE = 17.97 CFS
100 YR PROVIDED DETENTION VOL = 0.18 AC-FT
100 YR H.W.L. = 626.71
TOTAL 100 YR REQ DETENTION VOL FOR BOTH POND PR-19E1 & PR-19E2 = 0.40 AC-FT
TOTAL 100 YR PROVIDED DETENTION VOL FOR BOTH POND PR-19E1 & PR-19E2 = 0.41 AC-FT
P903
S901
PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER (X0322918)
P901
RETAINING WALL TS19.52R, SB
S902
S904
S905
P902
P904
S903
EXISTING INLINE DETENTION SEWER TO REMAIN (0.03 AC-FT)
NOISE ABATEMENT WALL TS19.20N,SB
EXISTING CONTROL STRUCTURE
EXISTING INLINE DETENTION SEWER TO REMAIN (0.02 AC-FT)
EXISTING CONTROL STRUCTURE
PR ℄ TRI-STATE TOLLWAY (I-294)
STORM SEWER TO BE CURVED OR DEFLECTED WITH 352' RADIUS FOR BOTH END OF STORM SEWER TO BE AWAY FROM PROPOSED NOISE ABATEMENT WALL
SB TRI-STATE TOLLWAY (I-294)
NB TRI-STATE TOLLWAY (I-294)
MATCH LINE STATION 1033+00
1035+00
1040+00
1045+00
300+00
15" STORM DRAIN
15" STORM DRAIN
42" RCP
24" RCP
30" RCP
60" RCP
36" RCP
18" RCP
15" RCP
12" RCP
12" PLP
19" x 30" RCP
SCALE IN FEET
0 50 100 150
KEY MAP
ROBERTS RD
87th ST
TRI-STATE TOLLWAY (I-294)

DRAWN BY	DM	DATE	05/26/2020	
CHECKED BY	AM	DATE	05/26/2020	

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/2020	ADDENDUM NO. 1

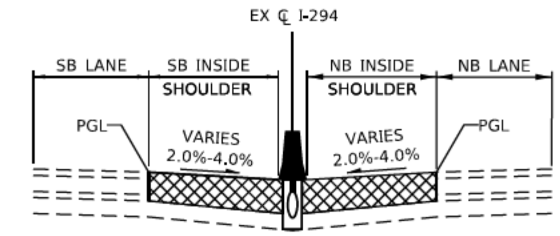
CONTRACT NO. I-20-4517

DRAINAGE PLAN
STA. 1033+00 - STA. 1046+00

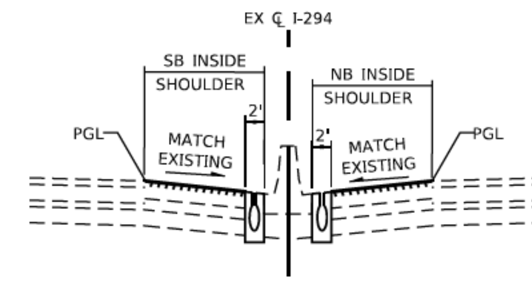
DRN-62
DRAWING NO.
276 OF 1762

PLOT TIME = 5:48:24 PM
PLOT DATE = 7/2/2020
PLOT SCALE = 100.0000 ' / in.
FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SGL\30 - C01 - 4296-3\01 - DDN\32 - SHT\4296-C01-SHT-DRN62-HWL.dgn

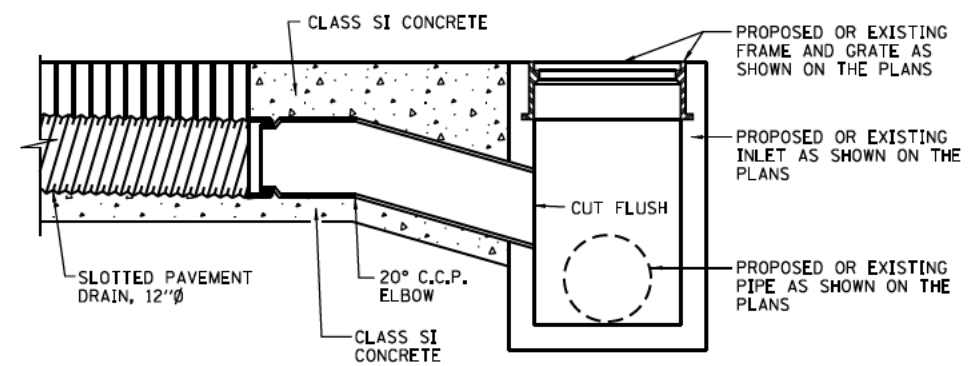
SLOTTED PAVEMENT DRAIN (RETROFIT) (12 IN) - JS120300							
LOCATION	STATION START	STATION END CONNECT TO EX. DRAINAGE STRUCTURE	LENGTH (FT)	ROADWAY LONGITUDINAL SLOPE	SLOTTED DRAIN PIPE SLOPE	UPSTREAM DEPTH OF SLOT (INCH)	DOWNSTREAM DEPTH OF SLOT (INCH)
SB MEDIAN	947+51	946+00	151	0.20%	0.53%	6	12
	951+18	949+28	190	0.20%	0.46%	6	12
	954+90	952+98	192	0.20%	0.46%	6	12
	956+97	956+72	25	0.20%	2.00%	6	12
	959+35	959+23	12	0.20%	1.59%	6	8
	964+58	964+23	35	0.20%	1.63%	6	12
	973+80	971+70	210	0.50%	0.74%	6	12
	986+00	983+20	280	1.49%	1.49%	6	6
	995+68	998+18	250	1.30%	1.30%	6	6
	1002+85	1006+02	317	1.30%	1.30%	6	6
	TOTAL		1662				



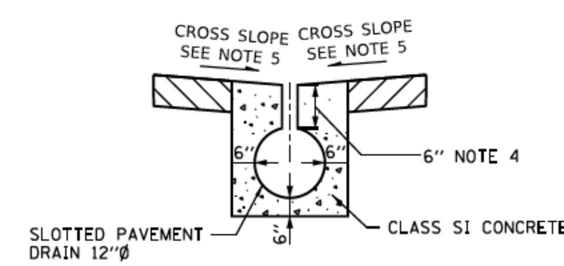
SLOTTED DRAIN CROSS OVER TYPICAL SECTION



SLOTTED DRAIN INSIDE SHOULDERS TYPICAL SECTION



CONNECTION TO EXISTING DRAINAGE STRUCTURE



NOTES FOR SLOTTED PAVEMENT DRAIN:

1. SLOTTED PAVEMENT DRAINS SHALL BE 12" DIA. 16 GAUGE, FULL BITUMINOUS COATED WITH PAVED INVERT UNLESS OTHERWISE SPECIFIED.
2. SLOTTED PAVEMENT DRAINS SHALL BE INSTALLED IN A CONTOURED TRENCH AND BACKFILLED WITH CLASS SI CONCRETE.
3. THE UPSTREAM END OF EACH SLOTTED PAVEMENT DRAIN, 12" DIA., INSTALLATION SHALL BE SEALED WITH A WELDED END PLATE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE CONNECTED TO A DRAINAGE STRUCTURE.
4. DEPTH OF SLOT CAN BE VARIED FROM 6" MINIMUM TO 12" MAXIMUM TO INCREASE SLOPE OF PIPE AS DETAILED FOR EACH SITE.
5. CROSS SLOPE SHALL MATCH SHOULDER SLOPE IN CROSSOVER LOCATIONS WITH MAXIMUM OF 4% TO FORM SWALE. IN LOCATIONS ALONG BARRIER WALL USE CONTINUOUS CROSS SLOPE (MATCH EXISTING SHOULDER SLOPE) TO DRAIN TO BARRIER WALL GUTTER.

LEGEND

EXISTING TO REMOVE	EXISTING TO REMAIN	PROPOSED	DESCRIPTION
R			HANDHOLE
R E	E	E	HANDHOLE, TOLLWAY (FOR ITS POWER/ELECTRICAL)
R XXX T or L or A	XXX T or L or A	XXX T or L or A	HANDHOLE, FOR SINGLE MODE FIBER OPTIC CABLE(S) (CALLOUT XXX FOR IL TOLLWAY FIBER, LEASED/CONDO FIBER, AT&T FIBER OR OTHERS AS NOTED)
R			JUNCTION BOX
R			WOOD POLE
R D	D	D	ITS DISCONNECT SWITCH
R			ITS POLE
R			ITS POLE-MOUNTED ENCLOSURE
R			ITS GROUND-MOUNTED CABINET
R C	C	C	CCTV CAMERA (FREEWAY SURVEILLANCE)
R S	S	S	CCTV CAMERA (SECURITY/TOLLING)
R BT	BT	BT	BLUETOOTH DETECTOR
R			MICROWAVE VEHICLE DETECTION SYSTEM
			MVDS DETECTION ZONE
R W	W	W	WEIGH-IN-MOTION SYSTEM CABINET
R R	R	R	ROAD WEATHER INFORMATION SYSTEM
R ATM	ATM	ATM	ACTIVE TRAFFIC MANAGEMENT GANTRY
R			WIRELESS IN-PAVEMENT DETECTOR
R R	R	R	WIRELESS REPEATER
R AP	AP	AP	WIRELESS DETECTOR ACCESS POINT
R IPDC	IPDC	IPDC	INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATIONS FACILITY
R DMS XXX	DMS XXX	DMS XXX	DYNAMIC MESSAGE SIGN (CALLOUT XXX FOR TYPE)
R LCS XXX	LCS XXX	LCS XXX	LANE CONTROL SIGN (CALLOUT XXX FOR TYPE)
R			ELECTRIC SERVICE TRANSFORMER - PAD MOUNTED
R			ELECTRIC SERVICE TRANSFORMER - POLE MOUNTED
R M	M	M	ELECTRIC SERVICE INSTALLATION

EXISTING TO BE ABANDONED	OR	EXISTING TO BE REMOVED	EXISTING TO REMAIN	PROPOSED	DESCRIPTION
TO BE ABANDONED ITS-C		TO BE REMOVED ITS-C	EX-ITS-C	ITS-C	CONDUIT (FOR ITS COMMUNICATIONS)
TO BE ABANDONED ITS-E		TO BE REMOVED ITS-E	EX-ITS-E	ITS-E	CONDUIT (FOR ITS POWER/ELECTRICAL)
TO BE ABANDONED		TO BE REMOVED			CONDUIT CASING
TO BE ABANDONED		TO BE REMOVED			CONDUIT ATTACHED TO STRUCTURE
TO BE ABANDONED ITS-C/E		TO BE REMOVED ITS-C/E	ITS-C/E	ITS-C/E	ITS DUCT PACKAGE
			FO-A		AERIAL FIBER OPTIC CABLE
			A	A	AERIAL ELECTRIC CABLE

CONDUIT / CABLE DESCRIPTION

PROPOSED

- (A) ITS DUCT BANK
  (24) 1½" DIA. COILABLE NONMETALLIC CONDUIT (COMMUNICATIONS) (JT810502)
  (2) 4" DIA. COILABLE NONMETALLIC CONDUIT (POWER) (JT810508)
- (B) ITS DUCT BANK
  (10) 6" COILABLE NONMETALLIC CONDUIT CASING, BORED (JT810510)
  -(24) 1½" DIA. COILABLE NONMETALLIC CONDUIT (COMMUNICATIONS) (JT810502)
  -(2) 4" DIA. COILABLE NONMETALLIC CONDUIT CASING (POWER) (JT810508)
- (C) ITS DUCT BANK
  (4) 8" DIA. FRE CONDUIT, ATTACHED TO STRUCTURE (JT160006)
  -(24) 1½" DIA. COILABLE NONMETALLIC CONDUIT (COMMUNICATIONS) (JT810502)
  (2) 4" DIA. FRE CONDUIT, ATTACHED TO STRUCTURE (POWER) (JT160000)
- (D) 1¼" DIA. CONDUIT, PVC SCHEDULE 80 (MEDIAN) (JS812028)
- (D1) 1¼" DIA. CONDUIT, PVC SCHEDULE 80 (UNDERGROUND) (JS810833)
- (D2) 4" DIA. CONDUIT, PVC SCHEDULE 80 (SLEEVE) (JS810839)
- (E) 2" DIA. COILABLE NONMETALLIC CONDUIT (JT810504)
- (E1) 3" DIA. COILABLE NONMETALLIC CONDUIT (JT810506)
- (E2) 6" DIA. COILABLE NONMETALLIC CONDUIT (SLEEVE) (JT810510)
- (F) 1½" DIA. COILABLE NONMETALLIC CONDUIT (JT810502)
- (G) 4" DIA. COILABLE NONMETALLIC CONDUIT (POWER) (JT810508)
- (H) 8" DIA. FIBERGLASS CONDUIT (SLEEVE) (JT160006)
- (I) (6) 1 1/2" DIA. COILABLE NONMETALLIC CONDUIT (COMMUNICATIONS) (JT810502)
- (J) 6" DIA. FIBERGLASS CONDUIT (JT160004)
- (K) 1 1/4" DIA. CONDUIT, PVC SCHEDULE 80 IN 2" DIA. PVC COATED GALVANIZED STEEL ATTACHED TO STRUCTURE (JS811060)
- ( )* NUMBER AT TOP RIGHT OF CIRCLE DENOTES QUANTITY OF CONDUIT/CABLE

1 (revision triangle)

ABBREVIATIONS AND ACRONYMS

NOTATION	DESCRIPTION
(A)	TO BE ABANDONED IN PLACE OR REMOVED BY OTHERS
ATM	ACTIVE TRAFFIC MANAGEMENT
ATS	ATTACHED TO STRUCTURE
CCTV	CLOSED-CIRCUIT TELEVISION
CHH	COMMUNICATIONS HANDHOLE
(E)	EXISTING, TO REMAIN IN PLACE
EX	EXISTING
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE
FRE	FIBERGLASS REINFORCED EPOXY
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
IPDC	INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATIONS
ISTHA	ILLINOIS STATE TOLL HIGHWAY AUTHORITY
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
LDJB	LIGHT DUTY JUNCTION BOX
MM	MULTIMODE
MP	MILEPOST
MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
OB	OVERBUILD
PR	PROPOSED
(R)	TO REMOVE
ROW	RIGHT-OF-WAY
RWIS	ROAD WEATHER INFORMATION SYSTEM
SM	SINGLE MODE
TYP.	TYPICAL
WP	WOOD POLE

PLOT TIME = 3:19:16 PM PLOT DATE = 7/15/2020 PLOT SCALE = 100.0000 ' / in.

DRAWN BY	MG	DATE	5/26/2020
CHECKED BY	RP	DATE	5/26/2020

SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ITS LEGEND, ABBREVIATIONS AND CABLE/CONDUIT DESCRIPTIONS

ITS-01
DRAWING NO.
502 OF 1762

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	RECORD QUANTITY
89502380	REMOVE EXISTING HANDHOLE	EACH	2	
JI811276	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	55	
JI811280	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., STAINLESS STEEL	FOOT	80	
JI811282	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., STAINLESS STEEL	FOOT	120	
JI811290	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., RIGID NONMETALLIC	FOOT	501	
JS810832	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	610	
JS810833	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	957	
JS810839	UNDERGROUND CONDUIT, PVC, 4" DIA. (1)	FOOT	1,130	
JS810845	UNDERGROUND CONDUIT, PVC, 8" DIA.	FOOT	2,104	
JS811060	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	880	
JS812021	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	210	
JS812023	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	60	
JS812025	CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., PVC	FOOT	5	
JS812027	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	115	
JS812028	CONDUIT EMBEDDED IN STRUCTURE, 1 1/4" DIA., PVC	FOOT	15,274	
JS813013	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 36" X 36" X 18"	EACH	2	
JS813016	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 36" X 36" X 10"	EACH	5	
JS813073	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	9	
JS813095	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 12"	EACH	6	
JS813097	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 36" X 36" X 10"	EACH	9	
JS813098	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 48" X 36" X 18"	EACH	1	
JS814002	HEAVY-DUTY HANDHOLE, TOLLWAY	EACH	21	
JS817224	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500MCM	FOOT	3,735	
JS836001	LIGHT POLE FOUNDATION (ROADWAY) STEEL HELIX (7 FT) OR CONCRETE	EACH	2	
JS836005	LIGHT POLE FOUNDATION (ROADWAY) MEDIAN, TYPE 1	EACH	4	
JT130751	INSTALL PREFABRICATED INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATION FACILITY	EACH	1	
JT130757	INSTALL ELECTRIC WORK, INTERMEDIATE POWER DISTRIBUTION AND COMMUNICATION FACILITY, NO ITS	EACH	1	
JT131527	PLAZA ELECTRICAL WORK, LOCATION 1	L SUM	1	
JT132040	DYNAMIC MESSAGE SIGN - TYPE 1	EACH	1	
JT132050	DYNAMIC MESSAGE SIGN -TYPE 1 (TRAINING)	L SUM	1	
JT132060	DYNAMIC MESSAGE SIGN - TYPE 1 (SPARE PARTS)	EACH	1	
JT132621	DMS ELECTRICAL WORK - TYPE 1	EACH	1	
JT132830	FIBER OPTIC COMMUNICATIONS, ITS ASSEMBLY	EACH	1	

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	RECORD QUANTITY
JT134000	MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS	L SUM	1	
JT134010	INTELLIGENT TRANSPORTATION SYSTEMS CABINET FOUNDATION	EACH	4	
JT134048	ITS ELEMENT SITE GROUNDING - ATM EQUIPMENT CABINETS	EACH	4	
JT154032	CONTRACT ALLOWANCE FOR ADDITIONAL ITS WORK	UNIT	20,000	
JT154062	CONTRACT ALLOWANCE FOR MAINTAIN INTELLIGENT TRANSPORTATION SYSTEM REPAIR	UNIT	15,000	
JT160000	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 4" DIA, RIGID NONMETALLIC	FOOT	1,200	
JT160002	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 5" DIA, RIGID NONMETALLIC	FOOT	20	
JT160004	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 6" DIA, RIGID NONMETALLIC	FOOT	860	
JT160006	CONDUIT FOR SINGLE MODE FIBER OPTIC CABLE, ATTACHED TO STRUCTURE, 8" DIA, RIGID NONMETALLIC	FOOT	2,840	
JT160099	HANDHOLE FOR SINGLE MODE FIBER OPTIC CABLE, TORSION ASSIST, 48"X72"X36"	EACH	31	
JT160109	HANDHOLE FOR SINGLE MODE FIBER OPTIC CABLE, TORSION ASSIST, 48"X72"X36", PLATFORM MOUNTED	EACH	17	
JT160149	CABLE MARKER SIGN WITH POST FOR ELECTRIC CABLE	EACH	2	
JT160217	LOCATE POST FOR FIBER OPTIC CABLE	EACH	31	
JT160218	CABLE MARKER WARNING SIGN, WITH POST, FOR FIBER OPTIC CABLE	EACH	4	
JT160219	CABLE MARKER WARNING SIGN FOR FIBER OPTIC CABLE	EACH	32	
JT160410	HOT DIPPED GALVANIZED STEEL CARRIER PIPE, 4 INCH, SCHEDULE 40	FOOT	157	
JT160420	HOT DIPPED GALVANIZED STEEL CARRIER PIPE, 8 INCH, SCHEDULE 40	FOOT	314	
JT160430	HOT DIPPED GALVANIZED STEEL SLEEVE, 6 INCH, SCHEDULE 40	FOOT	12	
JT160440	HOT DIPPED GALVANIZED STEEL SLEEVE, 10 INCH, SCHEDULE 40	FOOT	24	
JT810502	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 1 1/2" DIA.	FOOT	210,511	
JT810504	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 2" DIA.	FOOT	12,352	
JT810506	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 3" DIA.	FOOT	3,014	
JT810508	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 4" DIA.	FOOT	19,473	
JT810510	INSTALL UNDERGROUND CONDUIT, COILABLE NONMETALLIC, SDR 11, 6" DIA.	FOOT	3,703	
JT810901	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 1-1/2" DIA., 24 COUNT	FOOT	7,586	
JT810911	DUCT PACKAGE, CONDUIT ENCASED, CLSM, 4" DIA., 2 COUNT	FOOT	7,586	
JT813010	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE (SPECIAL), 32" X 12" X 8"	EACH	9	
JT900082	PROTECTION FOR FIBER OPTIC CABLE	EACH	1	
JT900084	PROTECTION FOR ELECTRIC CABLE	EACH	2	
JT901056	LOCATOR TRACER WIRE	FOOT	7,586	
JT901057	LOCATOR TRACER WIRE, DIRECTIONAL BORE	FOOT	281	

DRAWN BY	MG	DATE	5/26/2020
CHECKED BY	RP	DATE	5/26/2020

SINGH

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ITS SUMMARY OF QUANTITIES

ITS-03

DRAWING NO. 504 OF 1762

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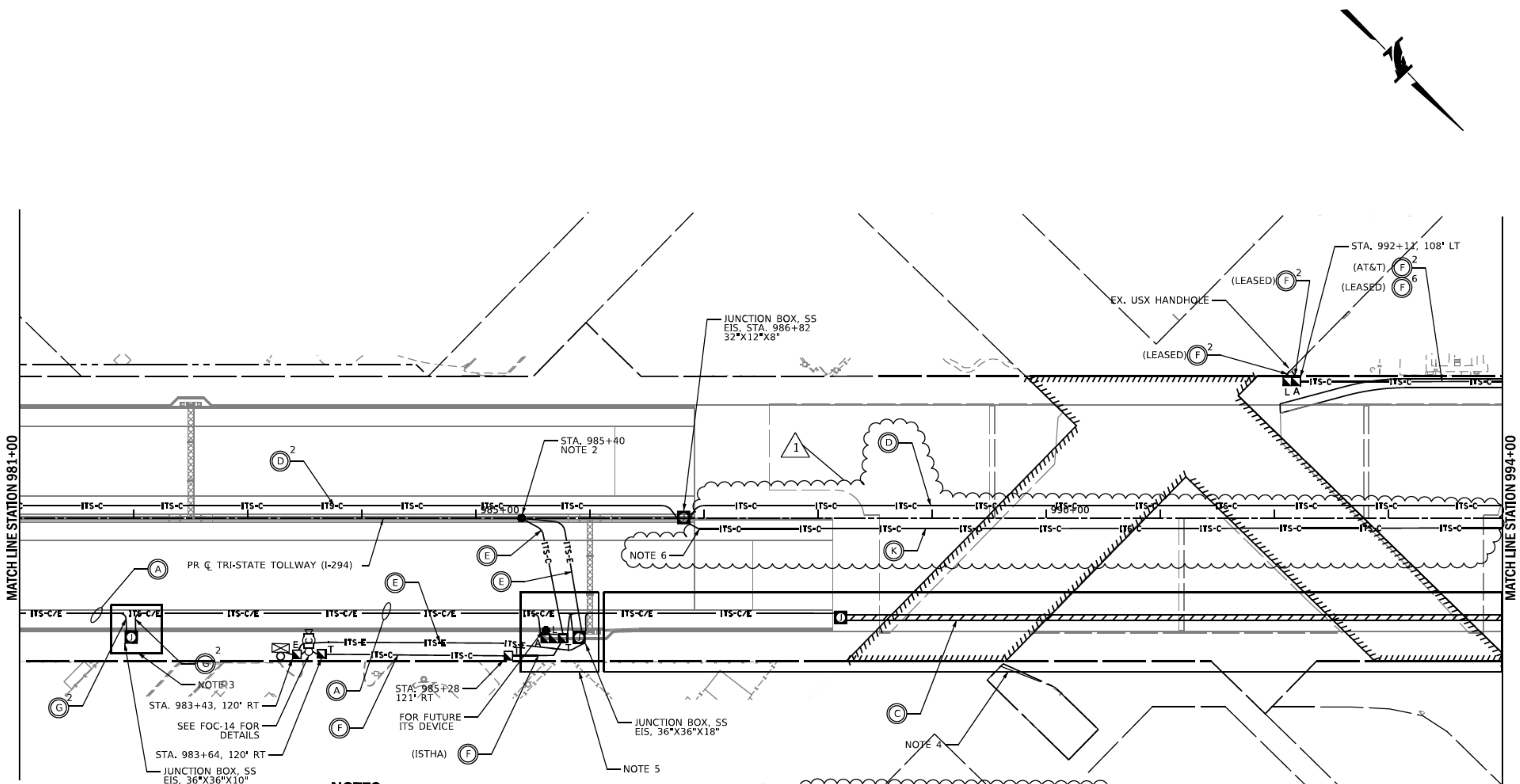
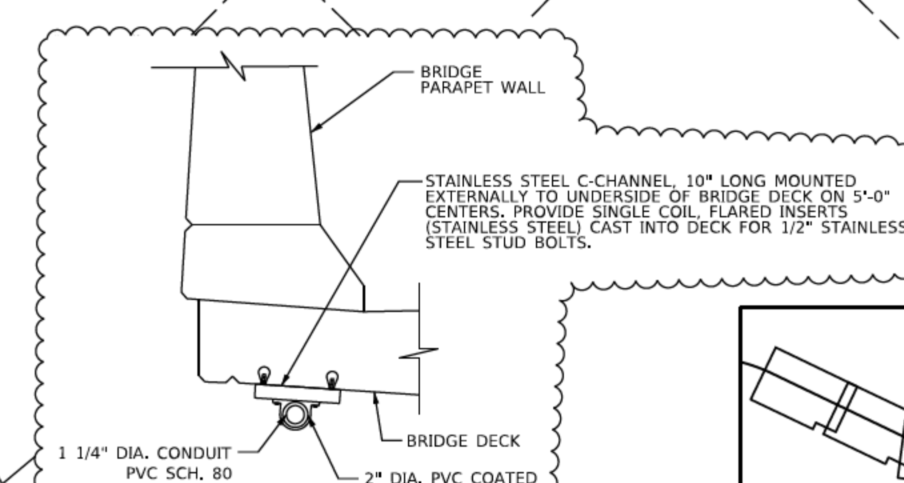
PLOT DATE = 7/7/2020



NOTES

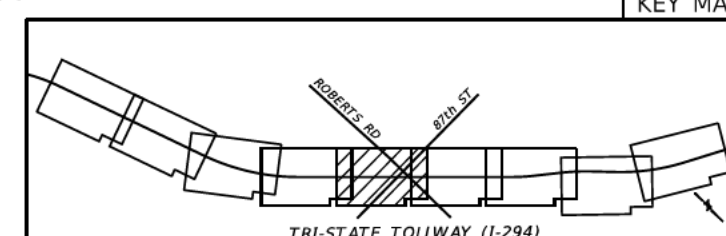
1. SEE SHEET ITS-01 AND ITS-02 FOR GENERAL NOTES AND LEGEND.
2. PROPOSED LIGHT STANDARD TYPE 1 FOUNDATION FOR FUTURE ITS DEVICE POLE (SEE STANDARD H1-09). STUB UP CONDUIT AND CAP. FURNISH AND INSTALL COVER OVER THE PROPOSED ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.
3. SEE STRUCTURAL PLANS FOR DETAILS.
4. SEE SHEET ITS-39 - ITS-41 FOR DETAILS.
5. SEE SHEET ITS-28 AND ITS-29 FOR DETAILS.
6. 1 ½" PVC CONDUIT TO TRANSITION FROM EMBEDDED IN MEDIAN BARRIER ALONG ROADWAY TO CONDUIT ATTACHED TO BRIDGE STRUCTURE. CONDUIT TO BE ROUTED UNDER BRIDGE APPROACH SLAB, THROUGH SLEEVES IN CONCRETE DIAGPHRAGM AT ABUTMENT, AND THEN MOUNTED TO UNDERSIDE OF THE BRIDGE DECK OVERHANG, SEE DETAIL A ON THIS SHEET. FOR SLEEVE LOCATIONS IN CONCRETE DIAPHRAGM, SEE SHEET SA-92 AND SA-93 OF STRUCTUTURAL PLANS.



DETAIL A

0 50 100 150
SCALE IN FEET

KEY MAP



DRAWN BY	MG	DATE	5/26/2020
CHECKED BY	RP	DATE	5/26/2020

SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

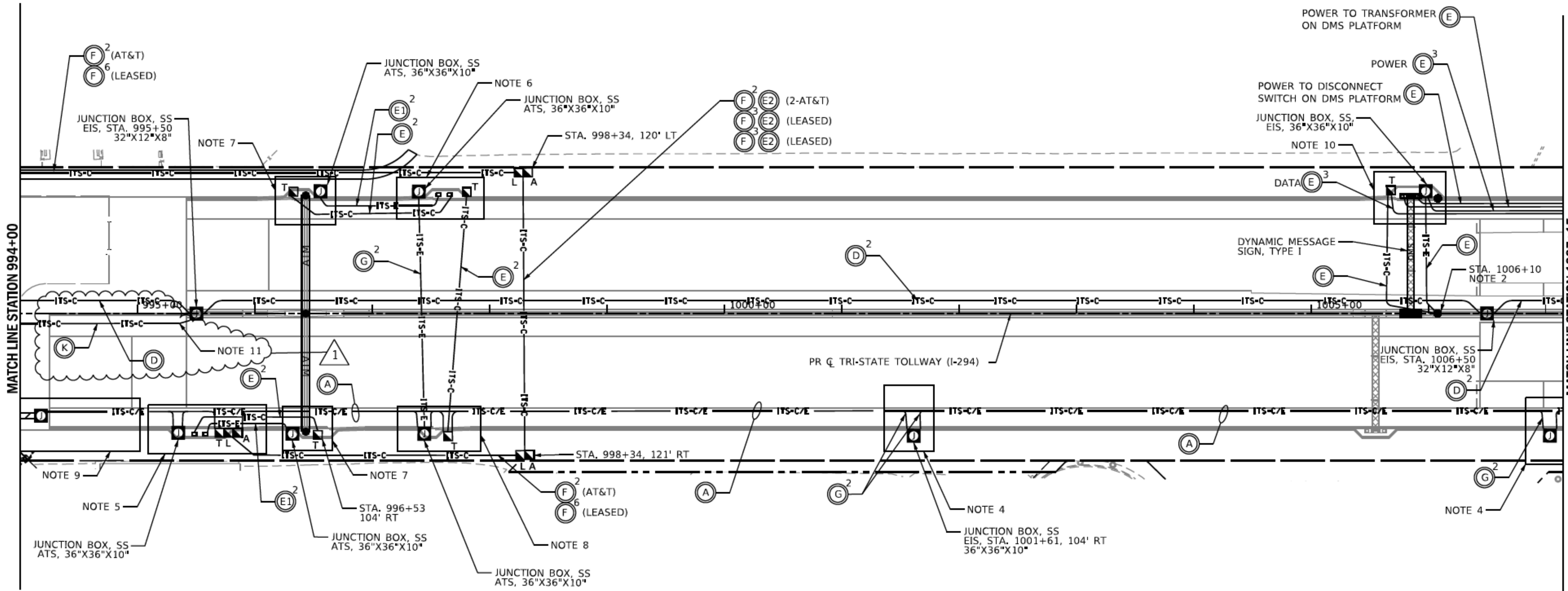
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

PROPOSED ITS PLANS
STA. 981+00 - STA. 994+00

ITS-08
DRAWING NO.
509 OF 1762

PLOT TIME = 8:27:30 PM
PLOT DATE = 7/7/2020
PLOT SCALE = 100.0000 ' / in.

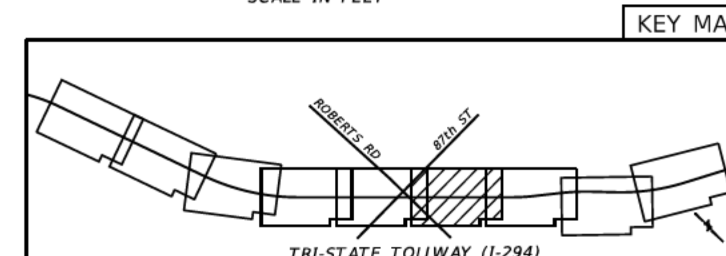


NOTES

1. SEE SHEET ITS-01 AND ITS-02 FOR GENERAL NOTES AND LEGEND.
2. PROPOSED LIGHT STANDARD TYPE 1 FOUNDATION FOR FUTURE ITS DEVICE POLE (SEE STANDARD H1-09). STUB UP CONDUIT AND CAP. FURNISH AND INSTALL COVER OVER THE PROPOSED ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.
3. CONDUITS TO ATM CABINET FOUNDATIONS NOT SHOWN FOR CLARITY. SEE ITS DETAILS FOR CONDUIT SIZE, QUANTITY, AND LOCATION.
4. SEE STRUCTURAL PLANS FOR DETAILS.
5. SEE SHEET ITS-30 AND ITS-31 FOR DETAILS.
6. SEE SHEET ITS-20 AND ITS-21 FOR DETAILS.
7. SEE SHEET ITS-22 AND ITS-23 FOR DETAILS.
8. SEE SHEET ITS-24 AND ITS-25 FOR DETAILS.
9. SEE SHEET ITS-39 - ITS-41 FOR DETAILS.
10. SEE SHEET ITS-34, ITS-35 AND DMS DETAILS.
11. 1 1/4" PVC CONDUIT TO TRANSITION FROM EMBEDDED IN MEDIAN BARRIER ALONG ROADWAY TO CONDUIT ATTACHED TO BRIDGE STRUCTURE. CONDUIT TO BE ROUTED UNDER BRIDGE APPROACH SLAB, THROUGH SLEEVES IN CONCRETE DIAGPHRAGM AT ABUTMENT, AND THEN MOUNTED TO UNDERSIDE OF THE BRIDGE DECK OVERHANG, SEE DETAIL A ON THIS SHEET. FOR SLEEVE LOCATIONS IN CONCRETE DIAPHRAGM, SEE SHEET SA-92 AND SA-93 OF STRUCTUTURAL PLANS.

0 50 100 150
SCALE IN FEET

KEY MAP



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DRAWN BY	MG	DATE	5/26/2020
CHECKED BY	RP	DATE	5/26/2020

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SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

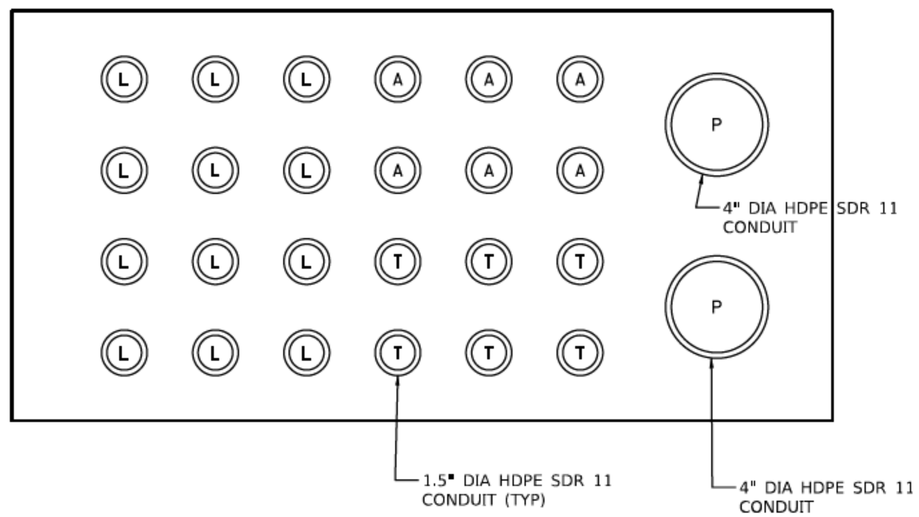
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

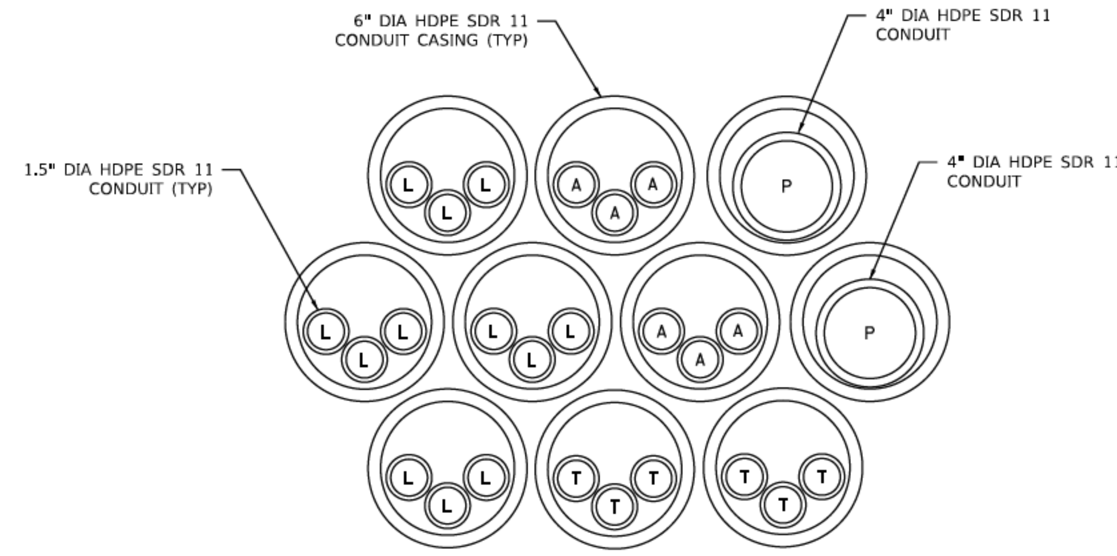
CONTRACT NO. I-20-4517

PROPOSED ITS PLANS
STA. 994+00 - STA. 1007+00

ITS-09
DRAWING NO.
510 OF 1762

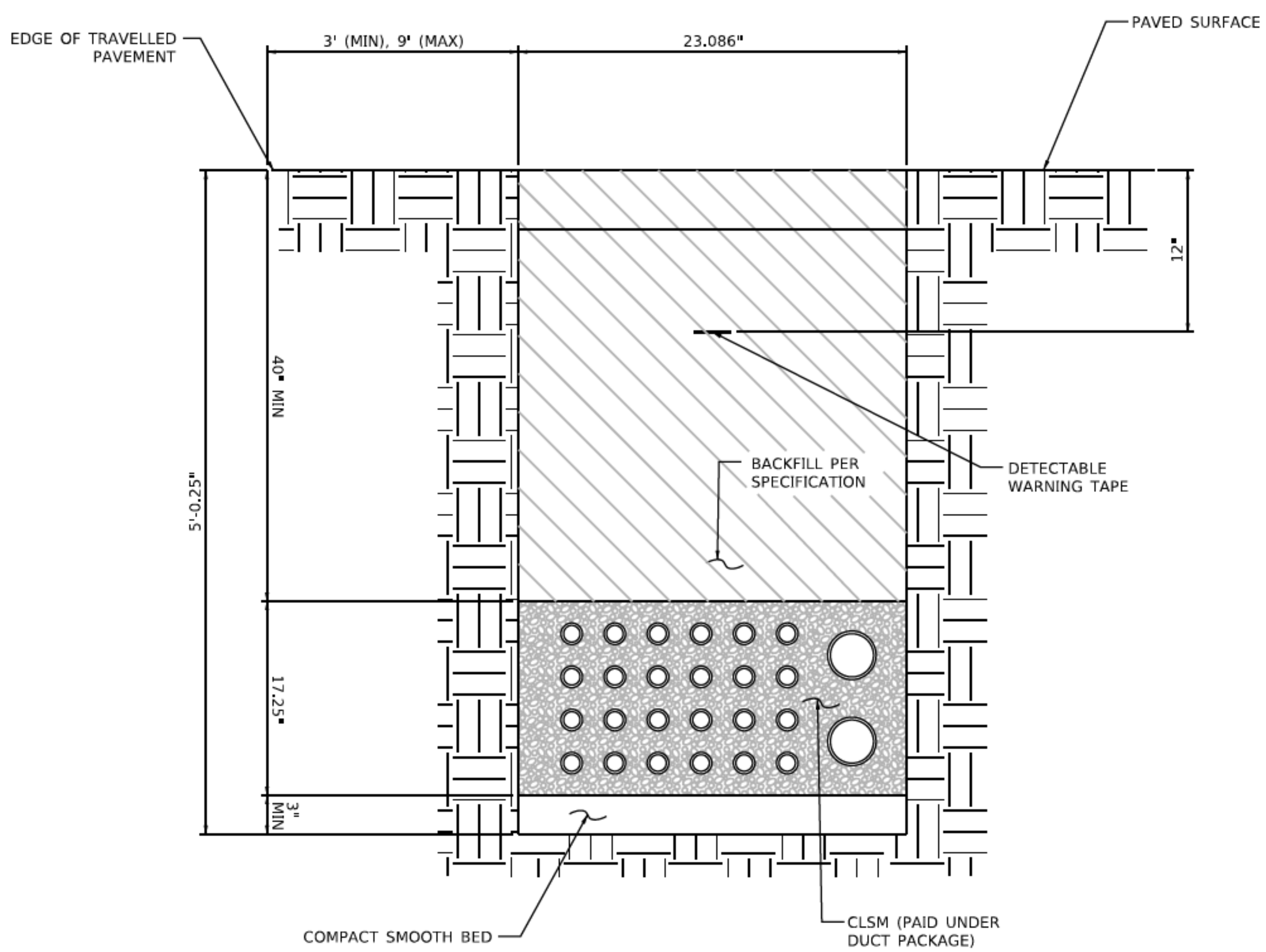


I-294 TRENCHED DUCT PACKAGE CONFIGURATION



EXISTING DIRECTIONAL BORED DUCT PACKAGE CONFIGURATION

(UNDER ROADWAY WITH POWER DUCTS)



I-294 TYPICAL DUCT PACKAGE – TRENCHED INSTALLATION

1

DRAWN BY	MG	DATE	5/26/2020
CHECKED BY	RP	DATE	5/26/2020

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

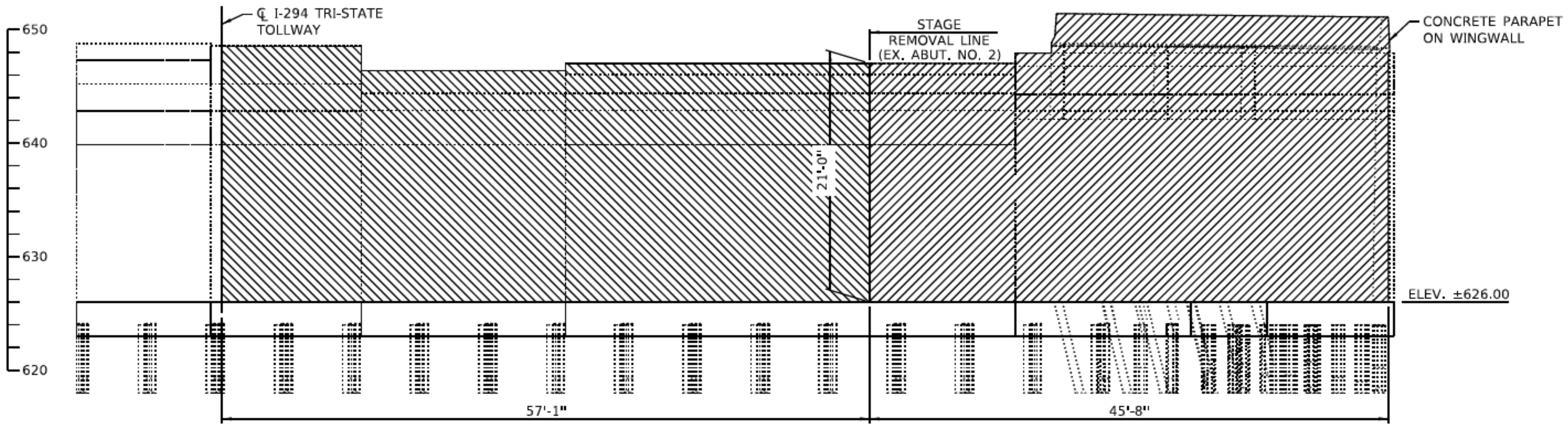
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

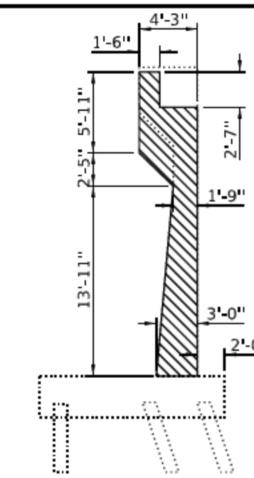
ITS DETAILS
DUCK PACKAGE DETAILS

ITS-12
DRAWING NO.
513 OF 1762

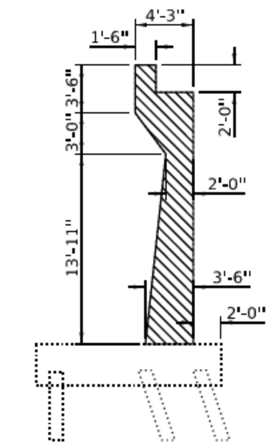


EXISTING ABUT NO. 2 ELEVATION (BN 171)

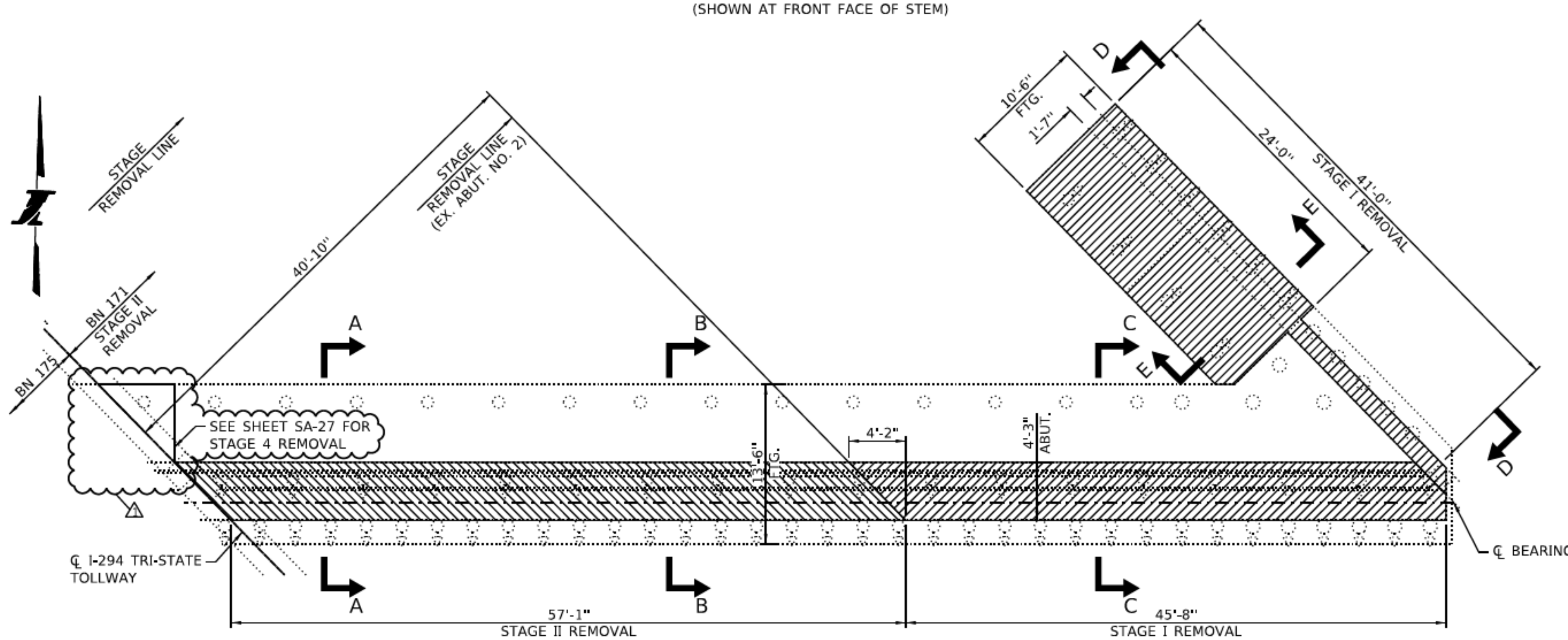
(SHOWN AT FRONT FACE OF STEM)



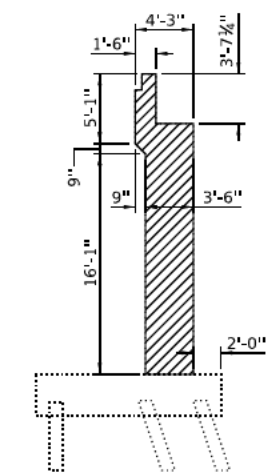
SECTION A-A



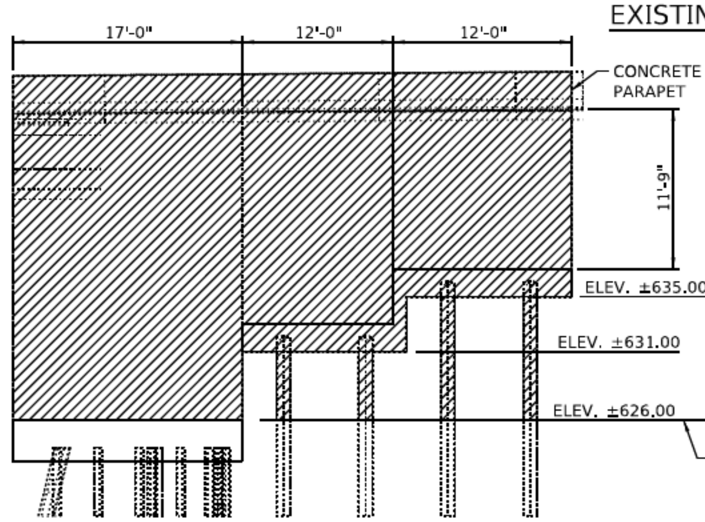
SECTION B-B



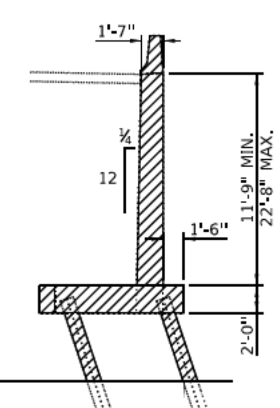
EXISTING ABUT NO. 2 PLAN (BN 171)



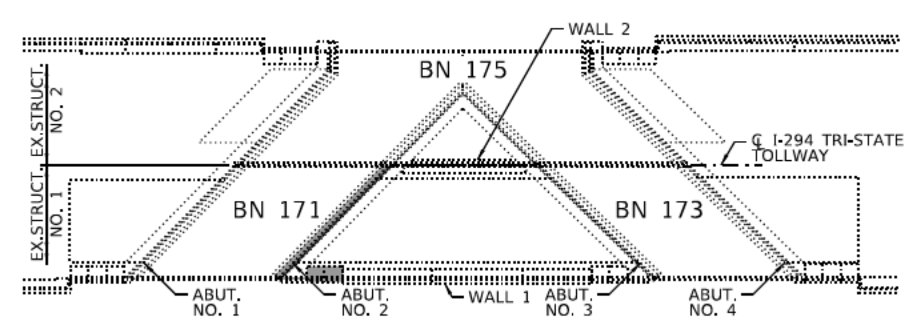
SECTION C-C



VIEW D-D



SECTION E-E



REMOVALS KEY PLAN

REMOVALS DETAILED THIS SHEET

NOTES:

1. FOR BILL OF MATERIAL SEE SHEET SA-19.
2. FOR ADDITIONAL NOTES SEE SHEET SA-19.

LEGEND:

- STAGE I REMOVALS- STRUCTURE NO. 1
- STAGE II REMOVALS STRUCTURE NO. 1

STRUCTURE NOS. 171 (NB) & 175 (SB)

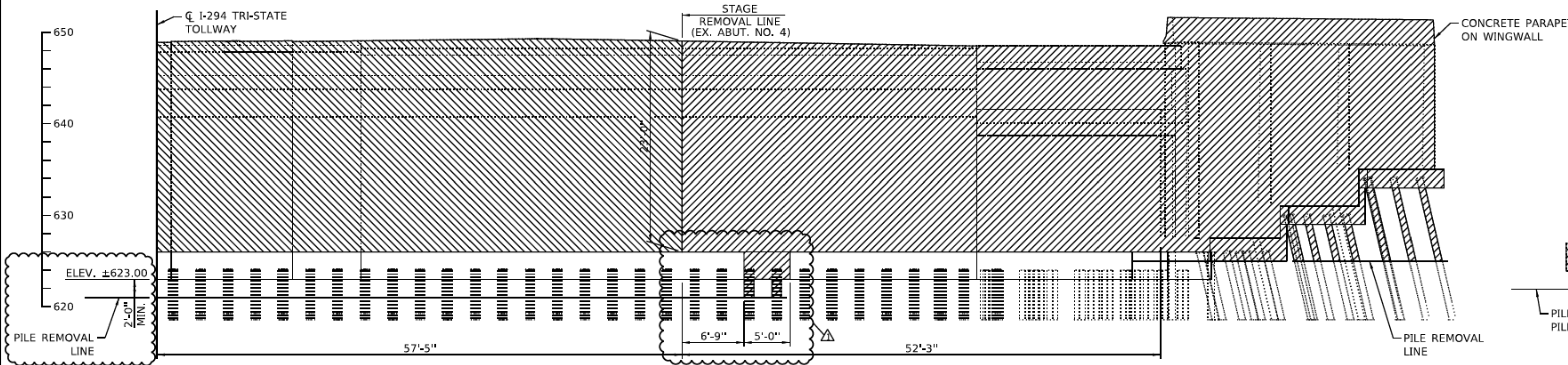
DRAWN BY DJR	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	
CHECKED BY BAP	DATE 05/26/2020			

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

I-294 OVER 87TH ST. & ROBERTS RD.
SUBSTRUCTURE REMOVALS - STAGES 1 & 2



EXISTING ABUT NO. 4 ELEVATION (BN 173)

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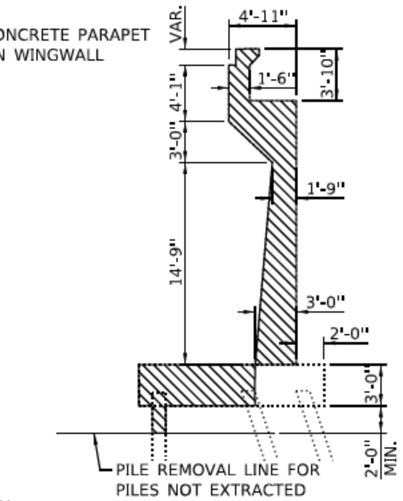
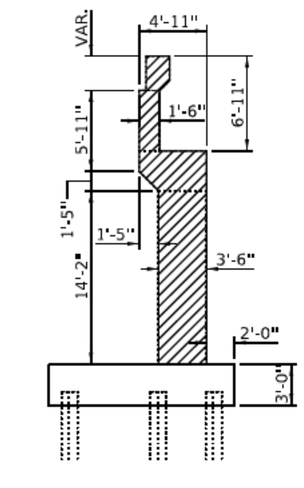
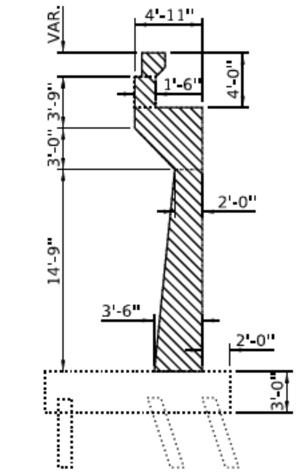


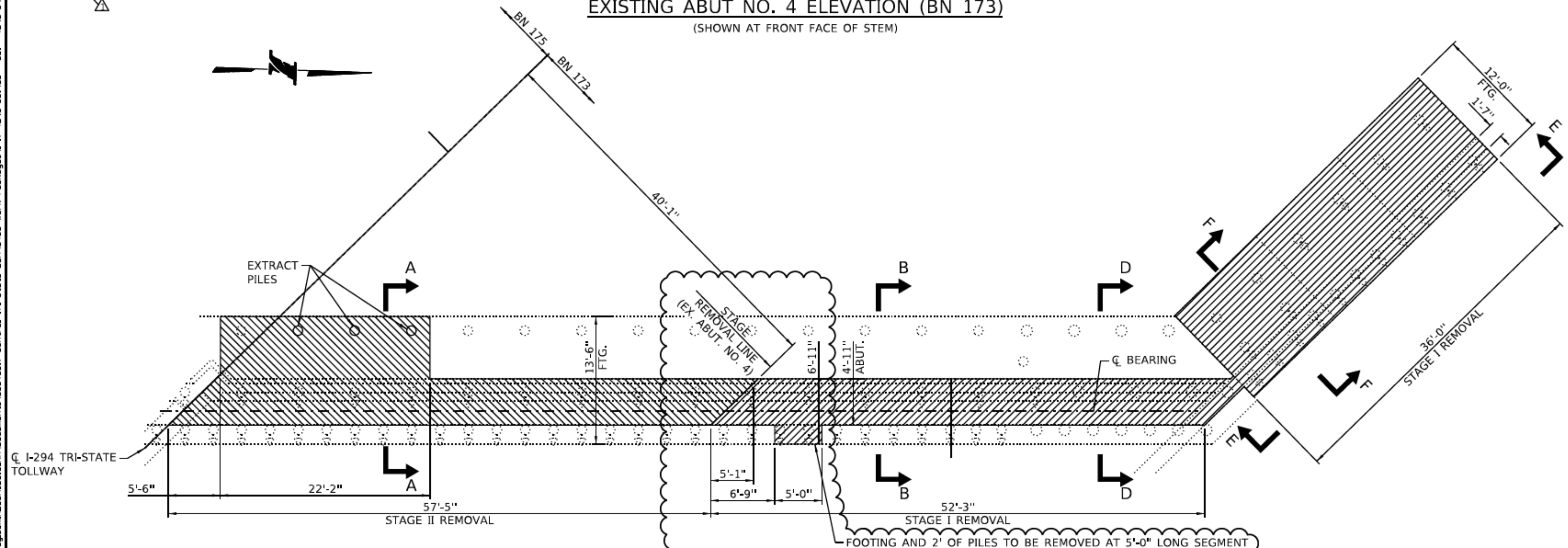
SECTION A-A



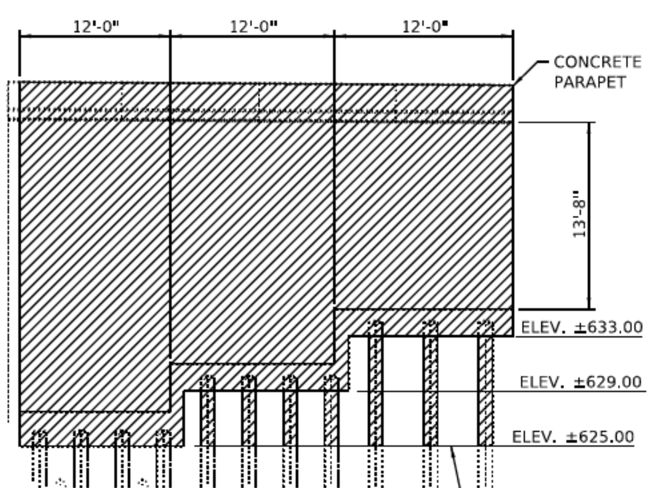
SECTION D-D



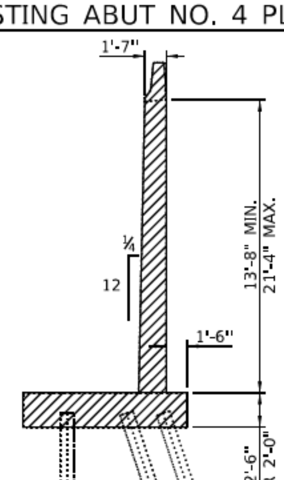
SECTION B-B



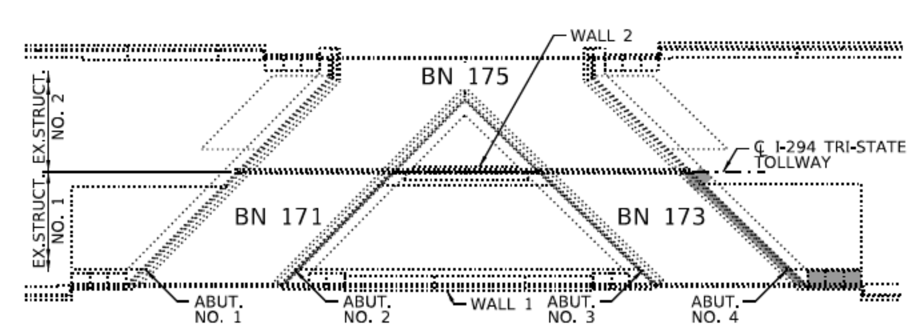
EXISTING ABUT NO. 4 PLAN (BN 173)



VIEW E-E



SECTION F-F



REMOVALS KEY PLAN

REMOVALS DETAILED THIS SHEET

NOTES:

1. FOR BILL OF MATERIAL SEE SHEET SA-19.
2. FOR ADDITIONAL NOTES SEE SHEET SA-19.

LEGEND:

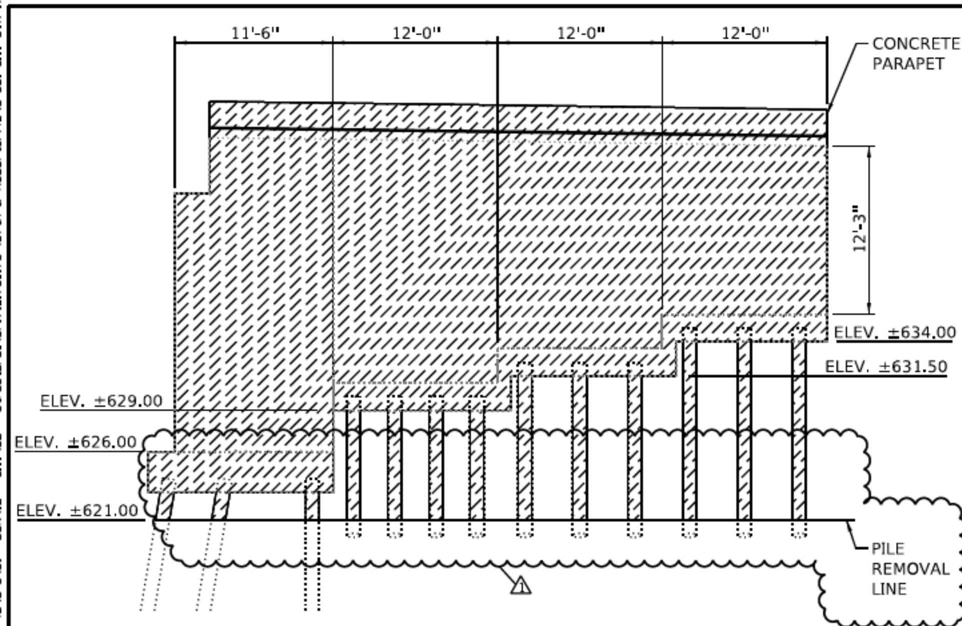
- STAGE I REMOVALS- STRUCTURE NO. 1
- STAGE II REMOVALS STRUCTURE NO. 1 & 2

STRUCTURE NOS. 171 (NB) & 175 (SB)

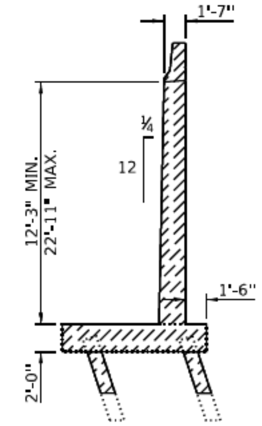
DRAWN BY DJR	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	CONTRACT NO. I-20-4517	SHEET NO. SA - 23 OF 249
CHECKED BY BAP	DATE 05/26/2020			I-294 OVER 87TH ST. & ROBERTS RD. SUBSTRUCTURE REMOVALS - STAGES 1 & 2	DRAWING NO. 631 OF 1762

REVISIONS

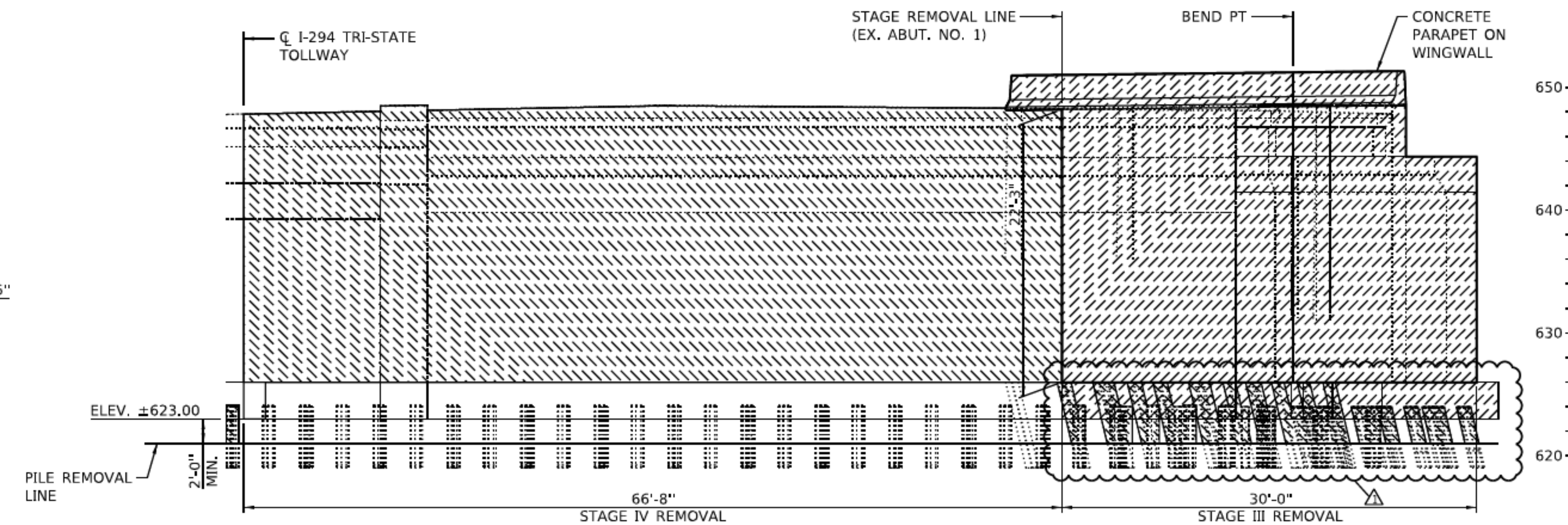
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1



VIEW E-E

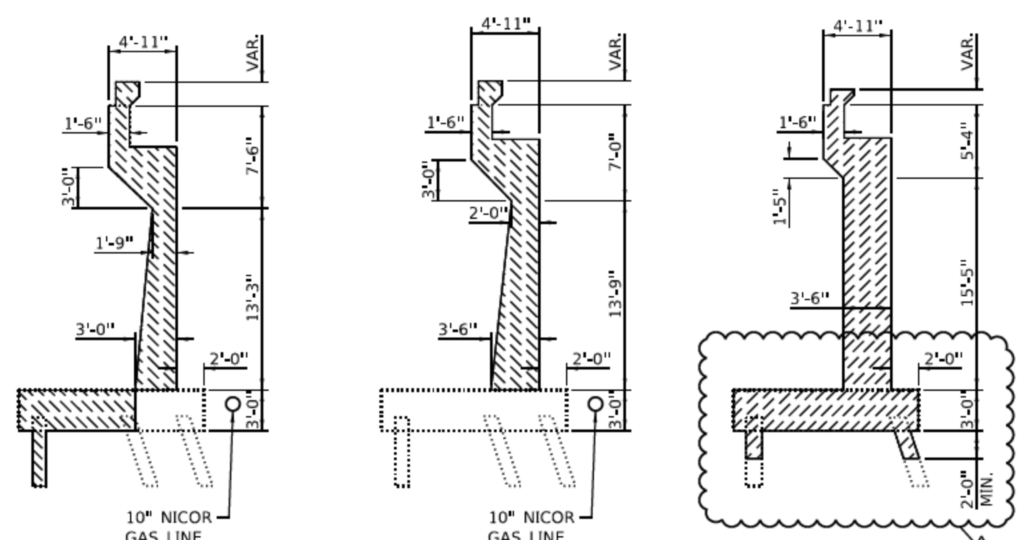


SECTION D-D

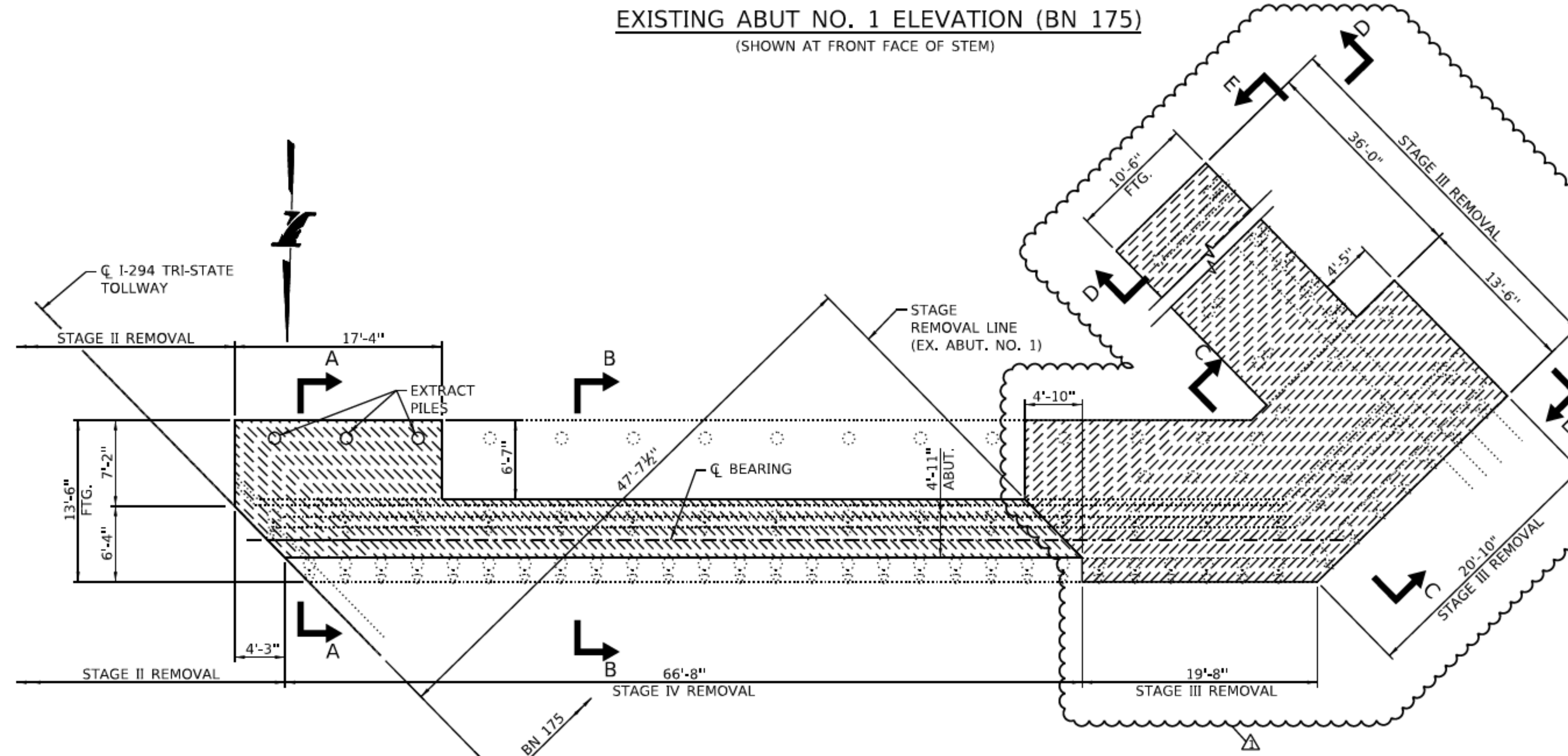


EXISTING ABUT NO. 1 ELEVATION (BN 175)

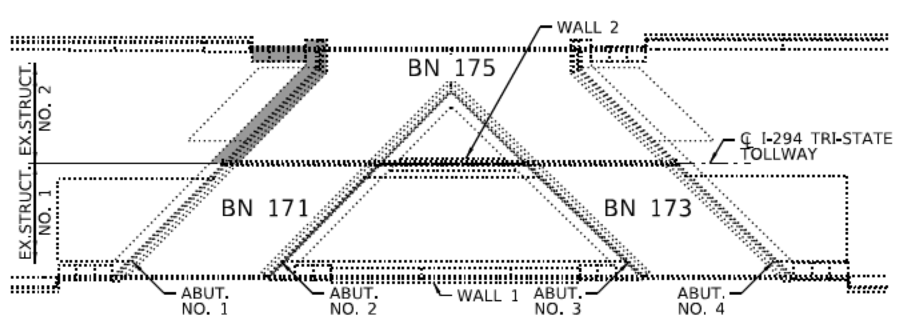
(SHOWN AT FRONT FACE OF STEM)



SECTION A-A SECTION B-B SECTION C-C



EXISTING ABUT NO. 1 PLAN (BN 175)



REMOVALS KEY PLAN

REMOVALS DETAILED THIS SHEET

LEGEND:

- STAGE III REMOVALS STRUCTURE NO. 2
- STAGE IV REMOVALS STRUCTURE NO. 2

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET SA-19.
2. FOR BILL OF MATERIALS SEE SHEET SA-19.

STRUCTURE NOS. 171 (NB) & 175 (SB)

DRAWN BY DM	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY BAP	DATE 05/26/2020		

REVISIONS

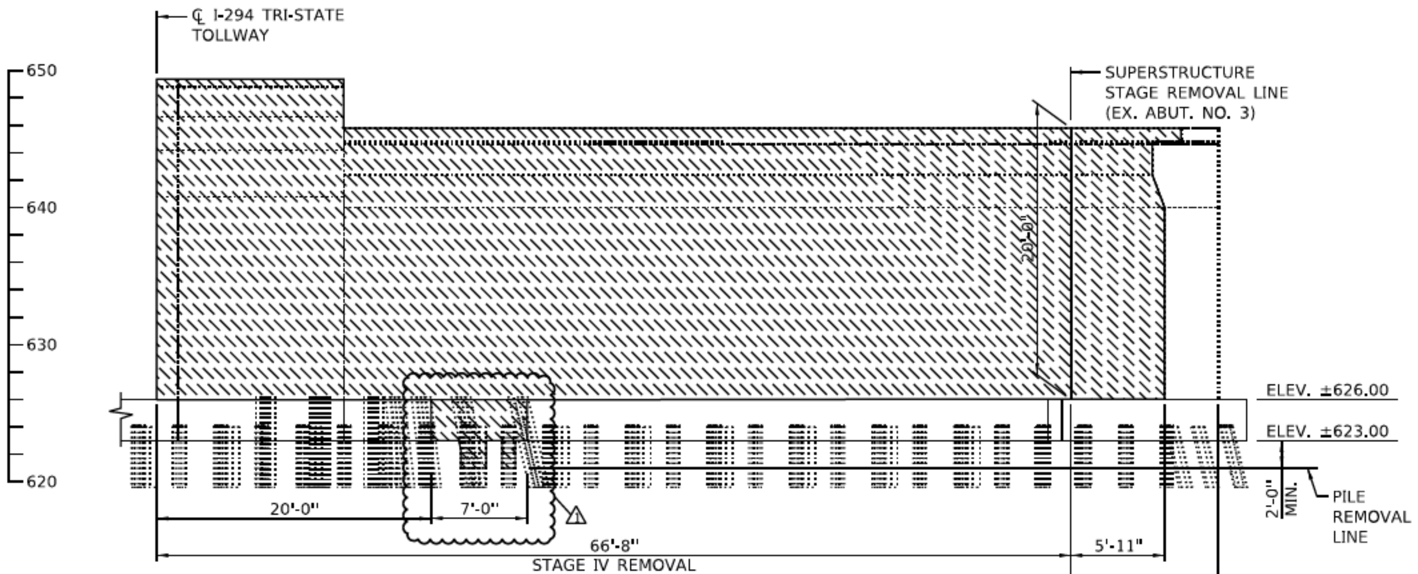
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

I-294 OVER 87TH ST. & ROBERTS RD.
SUBSTRUCTURE REMOVALS - STAGES 3 & 4

SHEET NO. SA - 26 OF 249

DRAWING NO. 634 OF 1762



VIEW D-D

EXISTING ABUT NO. 3 ELEVATION (BN 175)

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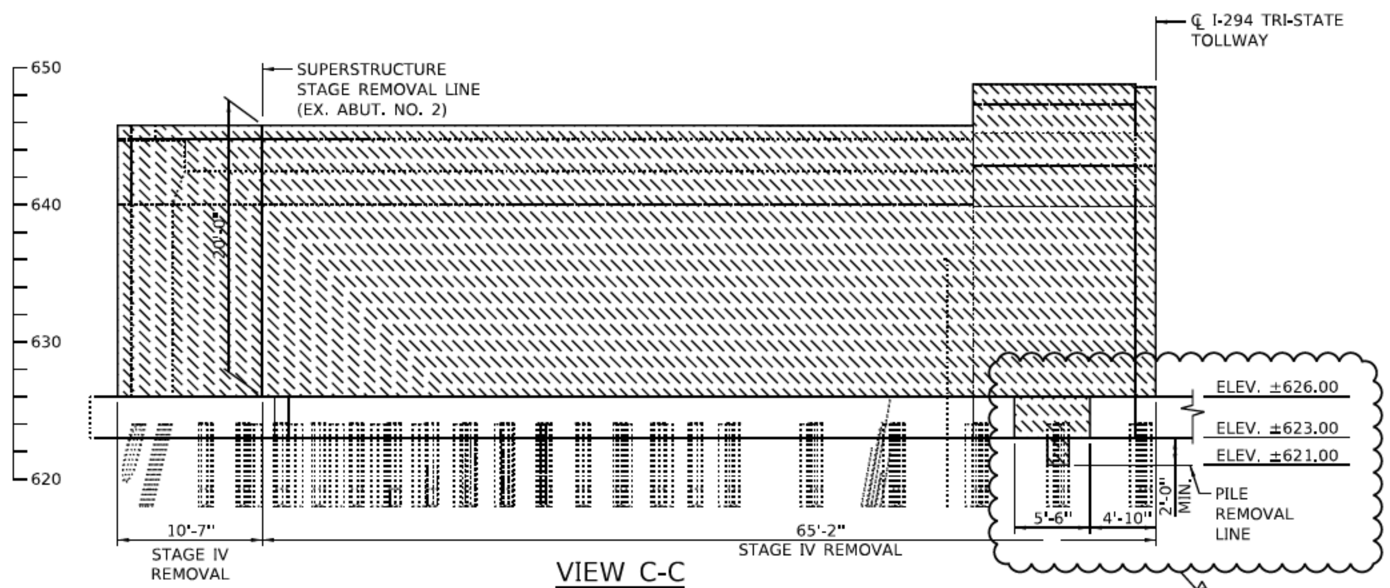
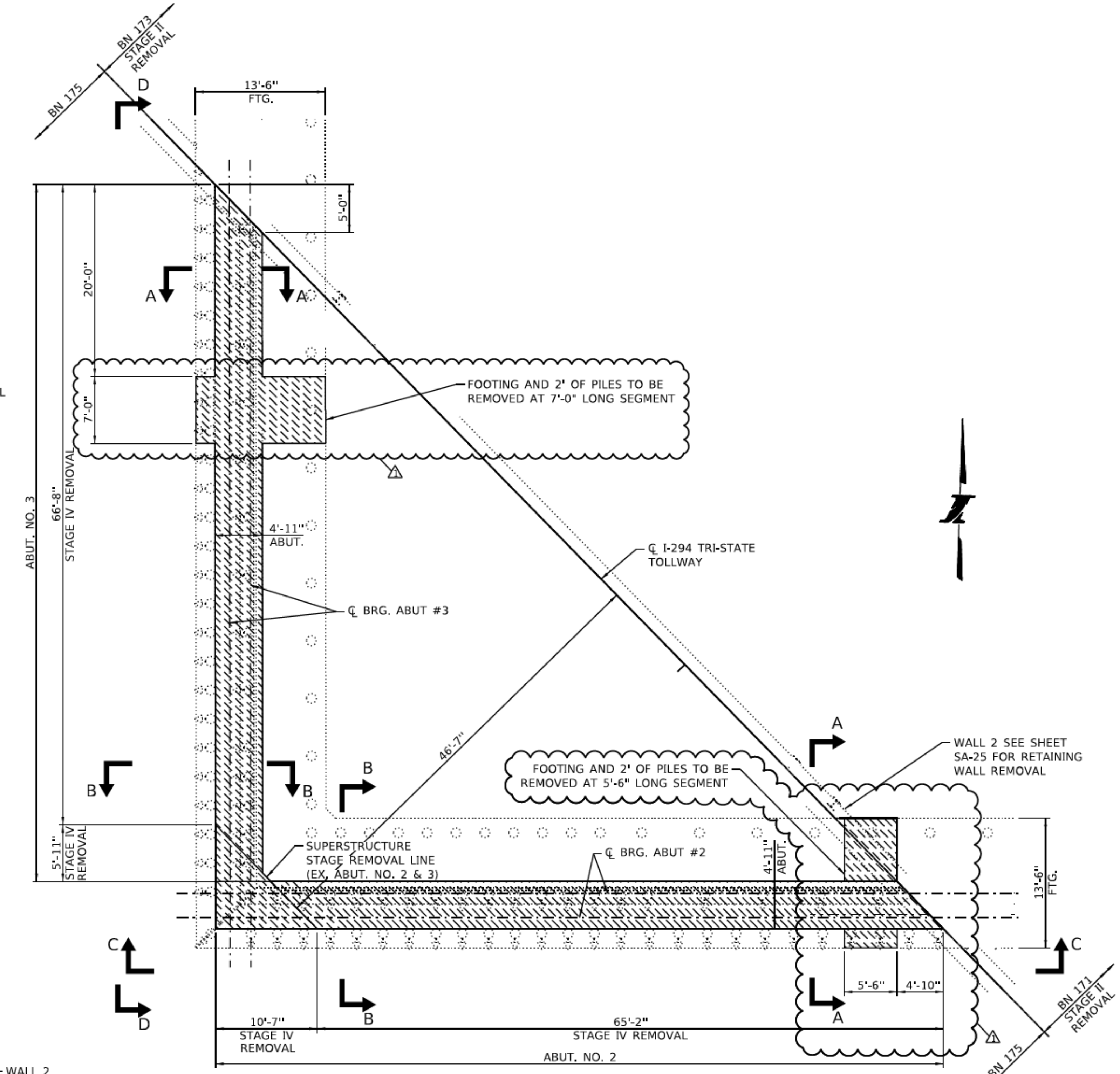


VIEW C-C

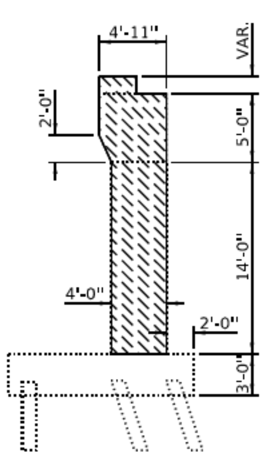
EXISTING ABUT NO. 2 ELEVATION (BN 175)

(SHOWN AT FRONT FACE OF STEM)

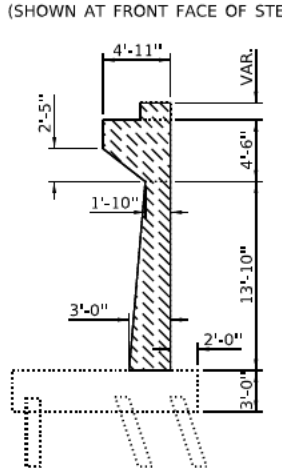


EXISTING ABUT NO. 2 PLAN (BN 175)

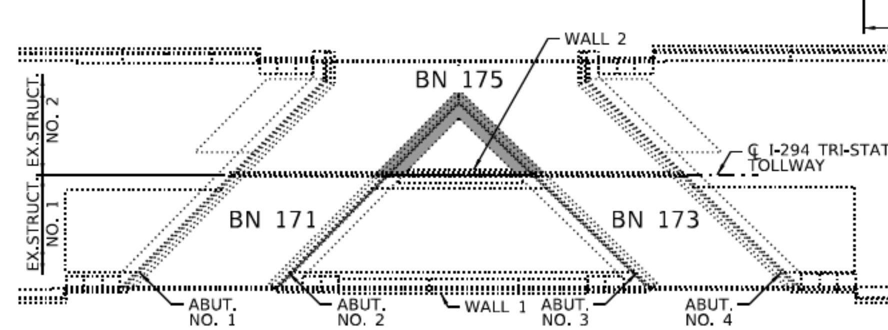
& EXISTING ABUT NO. 3 PLAN (BN 175)



SECTION B-B



SECTION A-A



REMOVALS KEY PLAN

REMOVALS DETAILED THIS SHEET

LEGEND:

STAGE IV REMOVALS STRUCTURE NO. 2

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET SA-19.
2. FOR BILL OF MATERIALS SEE SHEET SA-19.

STRUCTURE NOS. 171 (NB) & 175 (SB)

DRAWN BY DM	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY BAP	DATE 05/26/2020		

REVISIONS

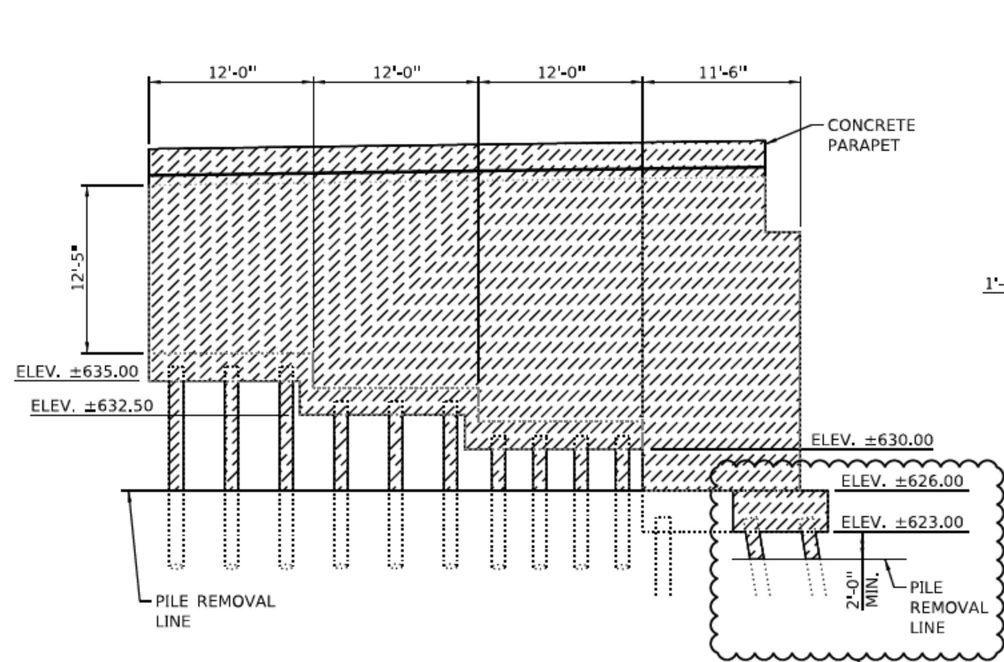
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

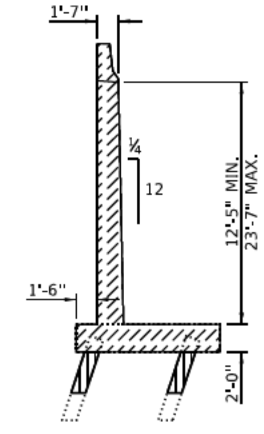
I-294 OVER 87TH ST. & ROBERTS RD.
SUBSTRUCTURE REMOVALS - STAGES 3 & 4

SHEET NO. SA - 27 OF 249

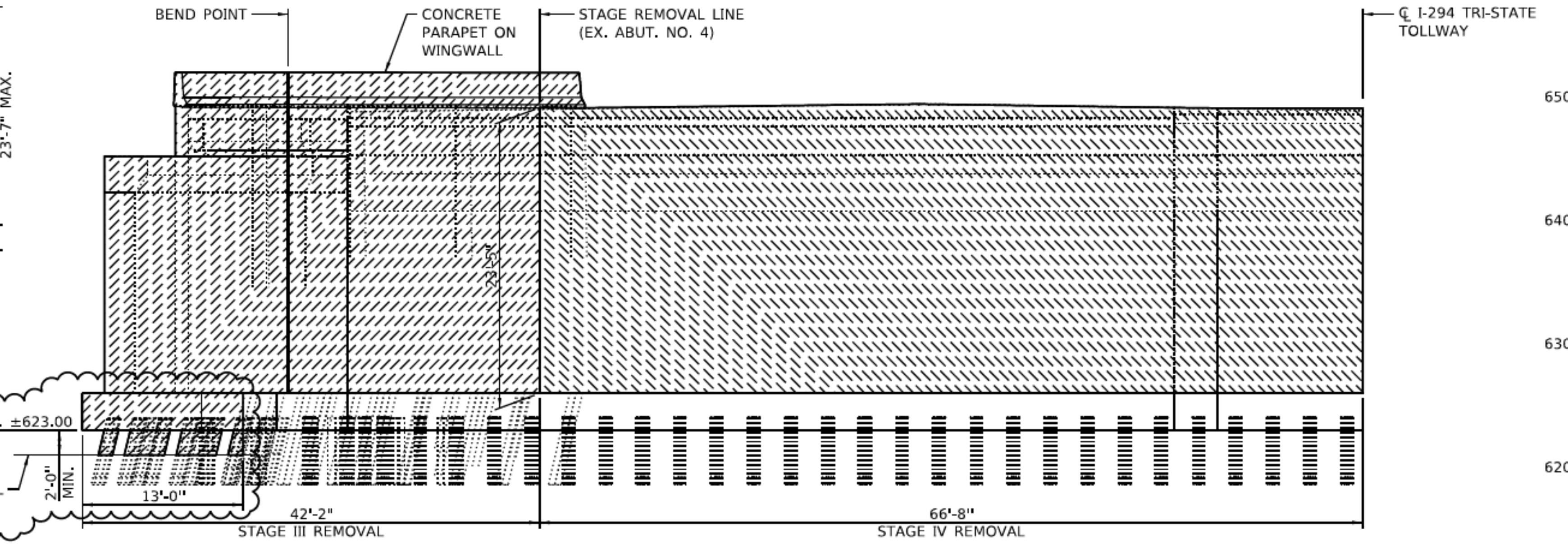
DRAWING NO. 635 OF 1762



VIEW D-D

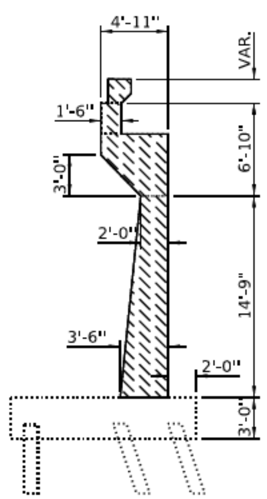


SECTION C-C

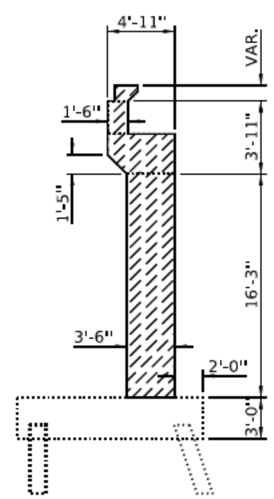


EXISTING ABUT NO. 4 ELEVATION (BN 175)

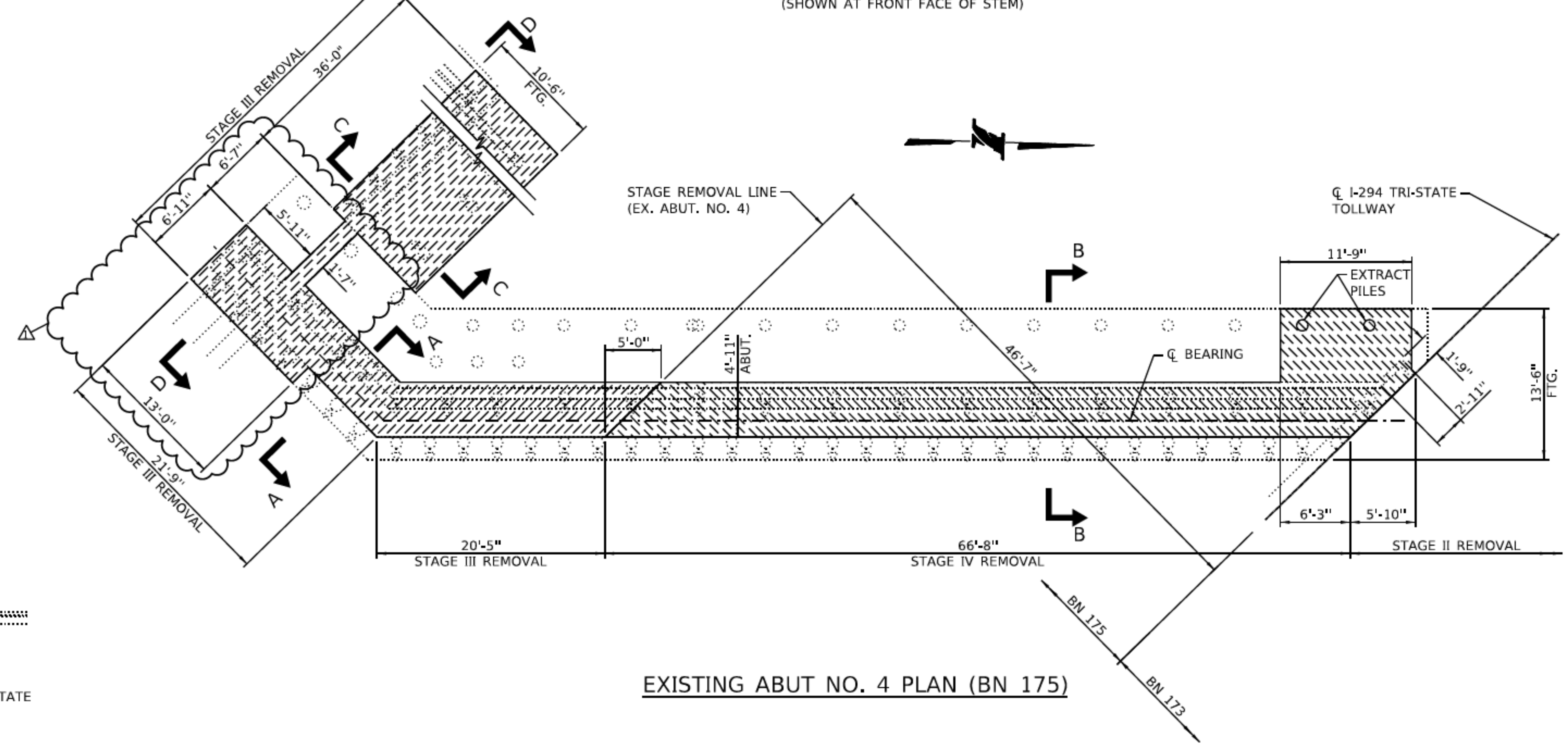
(SHOWN AT FRONT FACE OF STEM)



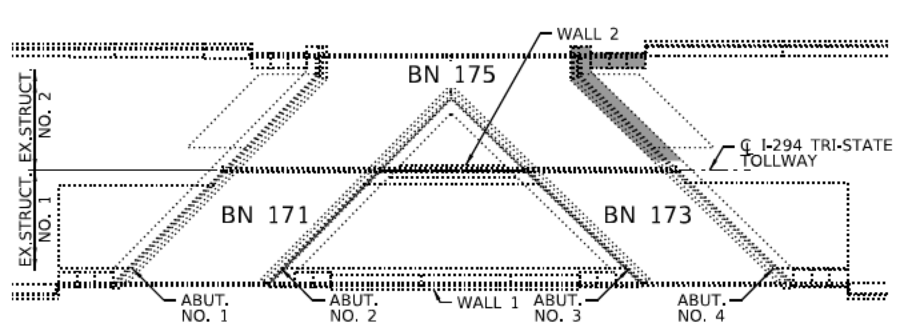
SECTION B-B



SECTION A-A



EXISTING ABUT NO. 4 PLAN (BN 175)



REMOVALS KEY PLAN

REMOVALS DETAILED THIS SHEET

LEGEND:

- STAGE III REMOVALS STRUCTURE NO. 2
- STAGE IV REMOVALS STRUCTURE NO. 2

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET SA-19.
2. FOR BILL OF MATERIALS SEE SHEET SA-19.

STRUCTURE NOS. 171 (NB) & 175 (SB)

DRAWN BY DM	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY BAP	DATE 05/26/2020		

REVISIONS

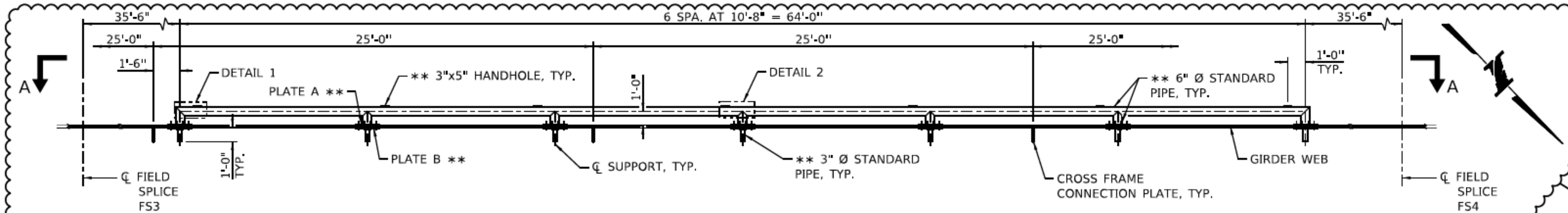
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

I-294 OVER 87TH ST. & ROBERTS RD.
SUBSTRUCTURE REMOVALS - STAGES 3 & 4

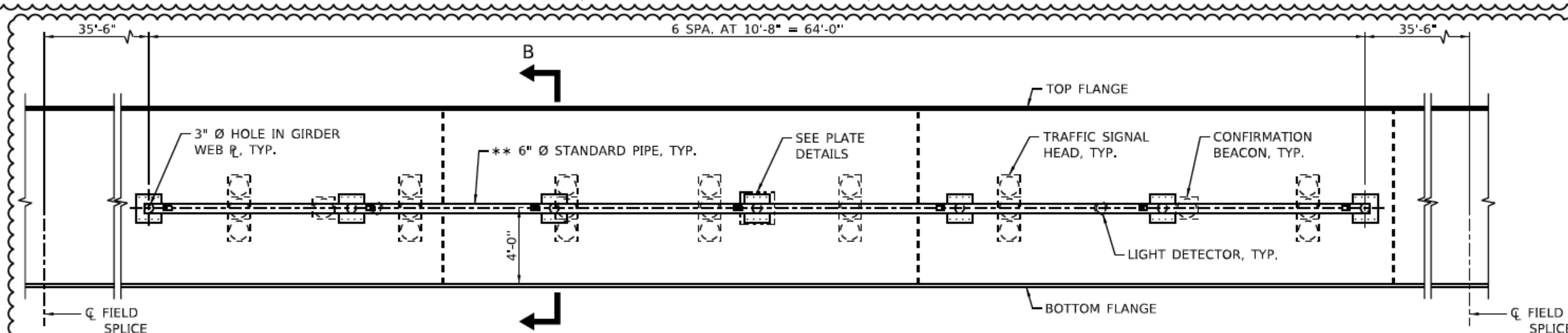
SHEET NO. SA - 28 OF 249

DRAWING NO. 636 OF 1762

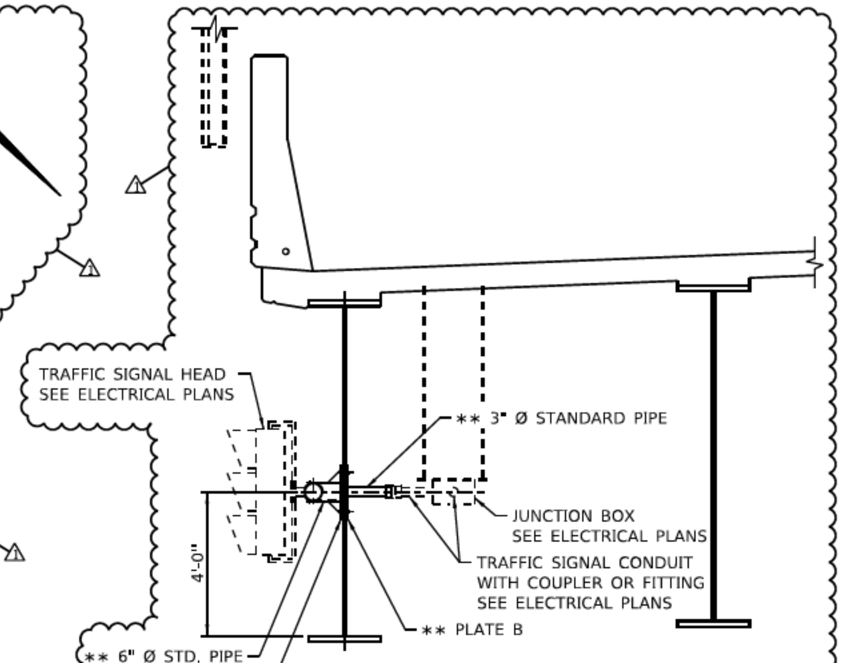


DETAIL H - TRAFFIC SIGNAL ATTACHMENT ASSEMBLY

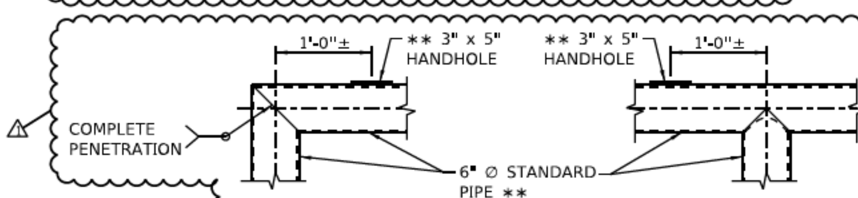
(CROSS FRAMES NOT SHOWN FOR CLARITY)



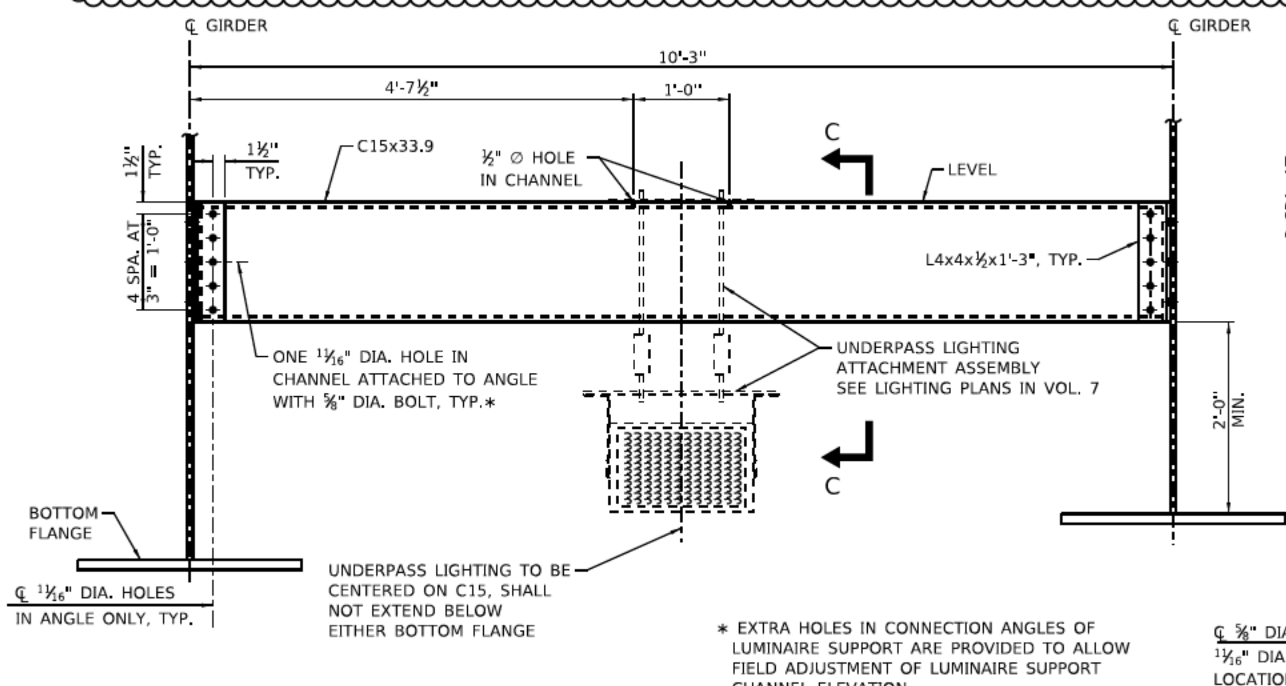
VIEW A-A



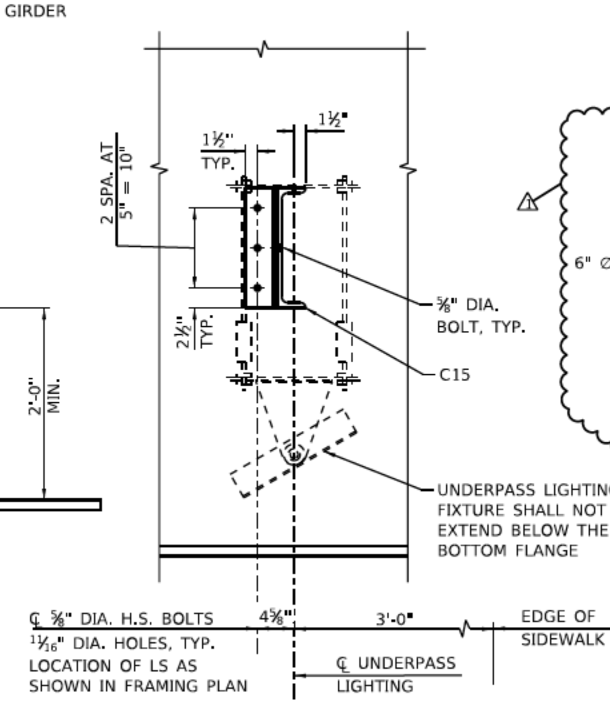
SECTION B-B



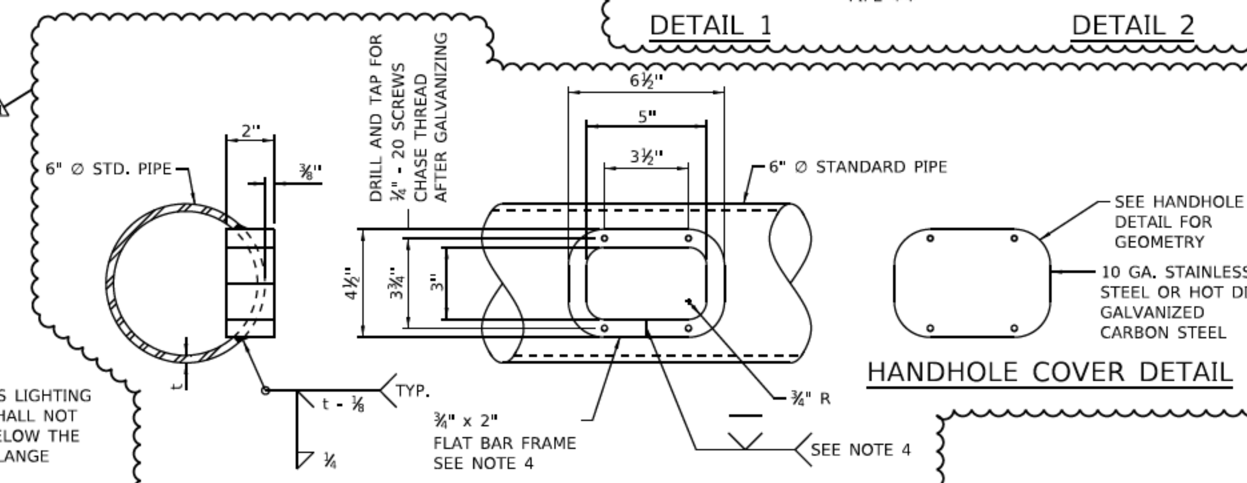
DETAIL 1 DETAIL 2



LUMINAIRE SUPPORT - LS



SECTION C-C



HANDHOLE DETAIL

PROVIDE 6½" x 4½" COVER WITH GASKET, SEE HANDHOLE COVER DETAIL.
PROVIDE 4 - ⁵⁄₁₆" Ø HOLES IN COVER FOR ¼" - 20 ROUND HEAD HOT DIP GALVANIZED OR STAINLESS STEEL MACHINE SCREWS.

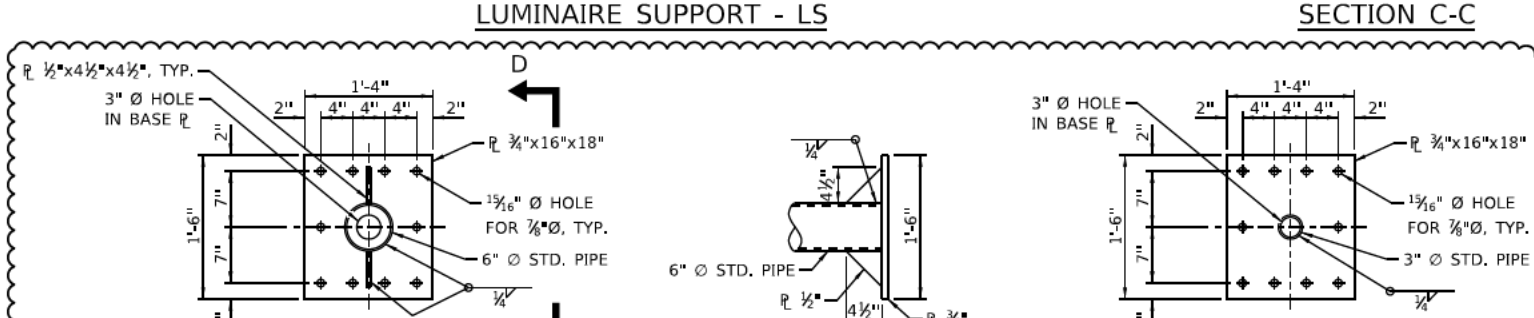


PLATE A VIEW D-D PLATE B

NOTES:

1. FASTENERS SHALL BE AASHTO M164 TYPE 1, MECHANICALLY GALVANIZED BOLTS.
2. HOLES IN GIRDER WEB FOR BOLTS SHALL BE 1¹⁄₁₆" Ø.
3. ALL STRUCTURAL STEEL OF THE TRAFFIC SIGNAL BRACKET ASSEMBLY SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
4. IN LIEU OF FABRICATED HANDHOLE FRAME AS SHOWN, MAY CUT FROM 2" PLATE (ROLLING DIRECTION VERTICAL). ALL CUT FACES, CORNERS AND EDGES ARE TO BE GROUND TO ANSI ROUGHNESS OF 500 MICRO-IN OR LESS.
5. ITEMS NOTED WITH ** ARE FURNISHED AND INSTALLED AS PART OF FURNISHING AND ERECTING STRUCTURAL STEEL NO. 2. PAY ITEM. REFER TO TRAFFIC SIGNAL PLANS FOR REMAINING ITEMS.
6. HANDHOLE LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO CONFIRM HANDHOLE LOCATIONS WITH ELECTRICAL CONTRACTOR AND STEEL FABRICATOR PRIOR TO FABRICATION.

STRUCTURE NO. 175 (SB)

DRAWN BY JM	DATE 05/26/2020	HDR ENGINEERING, INC. 9450 W. BRYN MAWR AVE. ROSEMONT, IL 60018	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515
CHECKED BY BHS	DATE 05/26/2020		

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

I-294 OVER 87TH ST. & ROBERTS RD.
STEEL DETAILS

SHEET NO. SA - 155 OF 249

DRAWING NO. 763 OF 1762

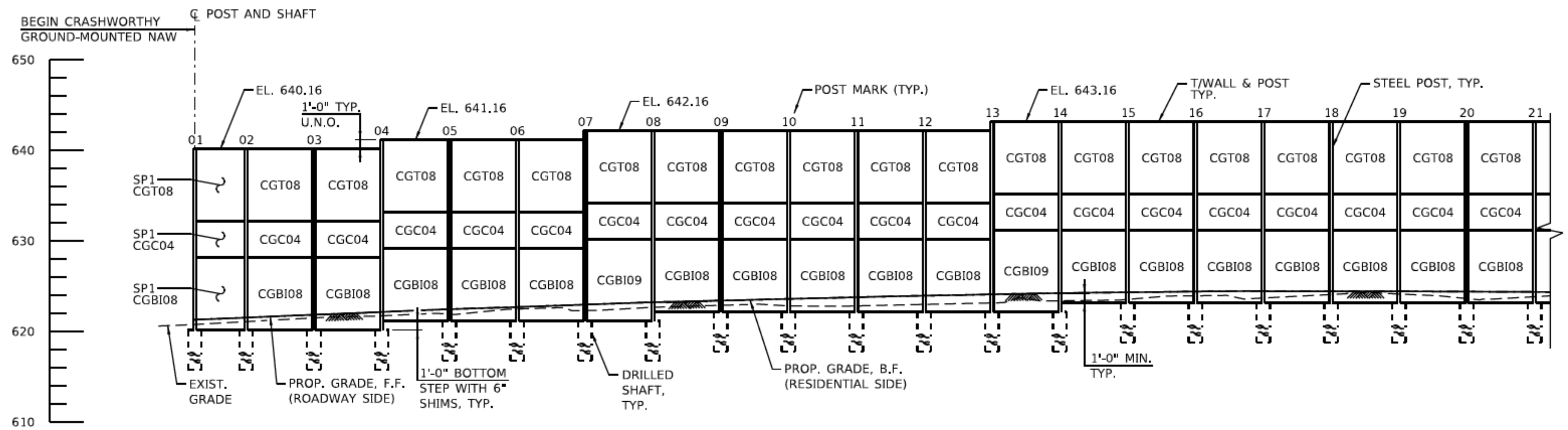
PLOT TIME = 1:16:52 PM
PLOT DATE = 7/6/2020
PLOT SCALE = 20 'I' / in.

BENCHMARK: BM 29-CHISELED "□" IN BACK OF CURB 100' N OF QE124 AT N END OF GORE FROM NB RAMP FROM 95TH ST. WHERE CURB & GUTTER ENDS. STA. 936+55.95, OFFSET 129.23' RT, ELEV. = 624.30

EXISTING STRUCTURE: NONE.

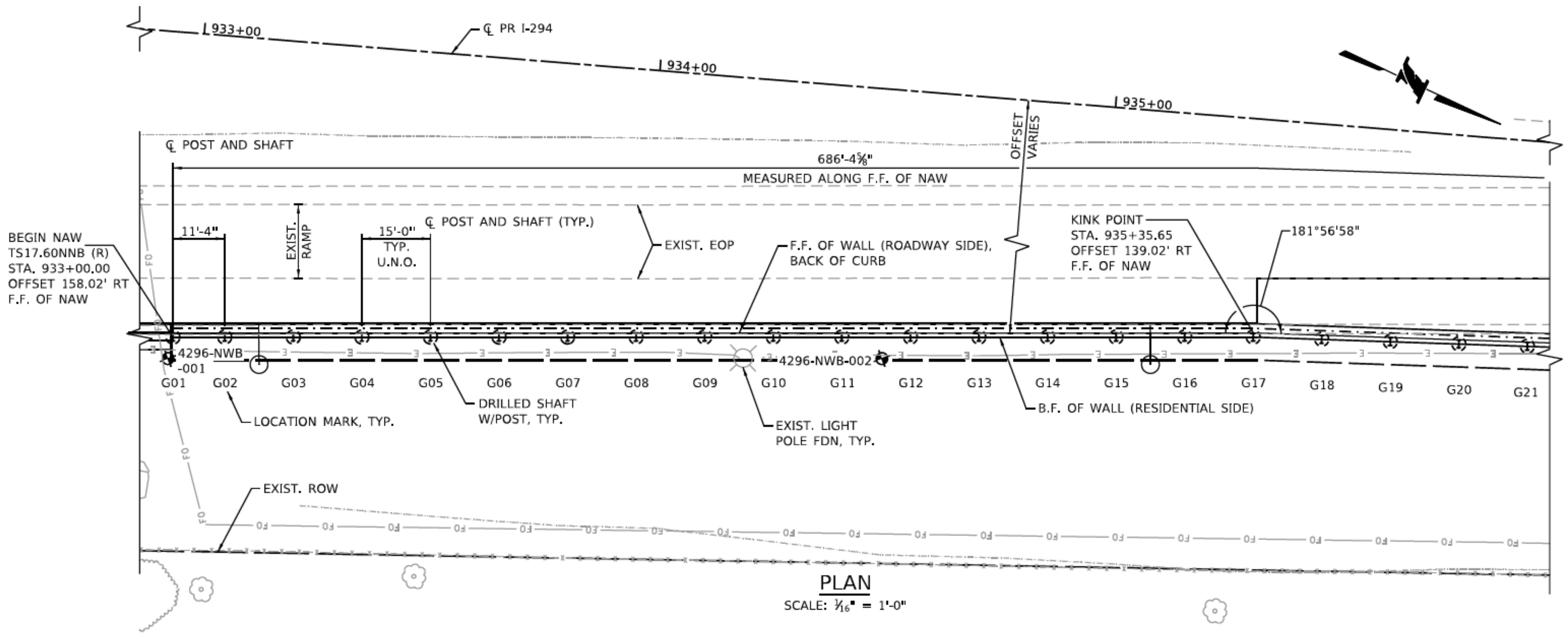
PROPOSED STRUCTURE: NOISE ABATEMENT WALL CONSISTS OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS.

TRAFFIC ON NB I-294 WILL BE MAINTAINED DURING CONSTRUCTION.



ELEVATION

SCALE: 1/16" = 1'-0"



PLAN

SCALE: 1/16" = 1'-0"

HIGHWAY CLASSIFICATION

NB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 68,720 (2013); 110,100 (2040)
ADTT: 11,683 (2013); 18,717 (2040)
DHV: 6,110 (2013); 8,700 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDl) = 0.074
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.118
SOIL SITE CLASS = C

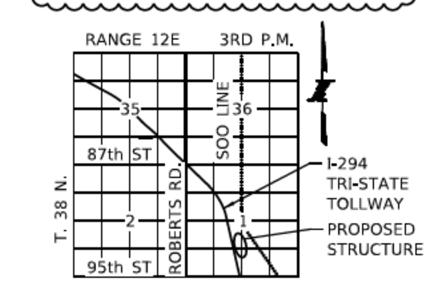
INDEX OF SHEETS

LEGEND

CABLE AERIAL
ELECTRIC AERIAL
FIBER OPTIC
GAS
TELEPHONE
STORM SEWER
FENCE
WATERMAIN
LIGHT POLE
SOIL BORING
EXISTING ROW
PROPOSED ROW

NOTES:

1. FOR WALL BILL OF MATERIAL, REFER TO SHEET NWA-4.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF NAW UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH, AS SHOWN IN THE ELEVATION VIEW.
4. PROPOSED GRADES AT FRONT AND BACK FACE OF THE NAW, AT ANY POINT ALONG THE WALL, ARE EQUAL.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 933+00.00 TO 939+85.11
STRUCTURE NO. TS17.60N, NB(R)

DRAWN BY JWM	DATE 5/26/2020	CHECKED BY KN	DATE 5/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS17.60N, NB(R)
GENERAL PLAN & ELEVATION 1

SHEET NO. NWA - 1 OF 6
DRAWING NO. 1086 OF 1762

PLOT DATE = 7/16/2020 PLOT TIME = 5:47:07 PM PLOT SCALE = 32.0000 ' / in.

GENERAL

1. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PLAN DIMENSIONS ARE HORIZONTAL EXCEPT AS NOTED OTHERWISE.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.
4. FOR EXISTING UTILITIES AND CONFLICT, SEE "EXISTING UTILITY PLAN" SHEETS.

CONSTRUCTION

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CALL J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED IN ONLINE AT THE TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE.
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR SHALL USE CARE WHEN EXCAVATING AROUND EXISTING FOUNDATIONS. ANY DAMAGE TO THE EXISTING STRUCTURE AND/OR SUPPORTING FOUNDATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

IDOT BRIDGE MANUAL, JANUARY 2012 AND ALL IDOT BRIDGE DESIGNERS MEMORANDUMS

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

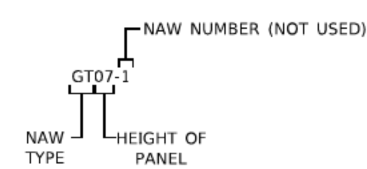
LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BENCHMARK
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
CONST	CONSTRUCTION
CTS	CENTERS
EA	EACH
E.E.	EACH END
EF	EACH FACE
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
FDN	FOUNDATION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
LT	LEFT
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
NB	NORTHBOUND
N.A.	NOT APPLICABLE
O.C.	ON CENTER
℘	PLATE
PGL	PROFILE GRADE LINE
PJF	PREFORMED JOINT FILLER
PJS	PREFORMED JOINT SEAL
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
ROW	RIGHT OF WAY
SHLDR.	SHOULDER
S.	SOUTH
SB	SOUTHBOUND
S.P.	SPECIAL PROVISION
SPA	SPACING
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TEMP	TEMPORARY
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

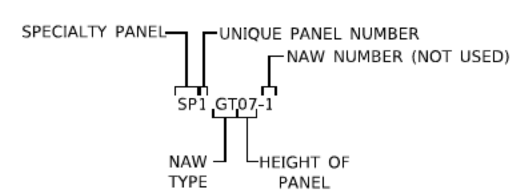
NAW TYPE

* CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
* CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.
** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGC04 (1)—△1	4'-0"	14'-10"	9"	45
CGT08	8'-0"	14'-10"	9"	45
SP1 CGC04 (1)—△1	4'-0"	11'-2"	9"	1
SP1 CGT08	8'-0"	11'-2"	9"	1

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI08	8'-0"	14'-10"	11"	40
CGBI09	9'-0"	14'-10"	11"	5
SP1 CGBI08	8'-0"	11'-2"	11"	1

△1 (1) CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

NOTE:

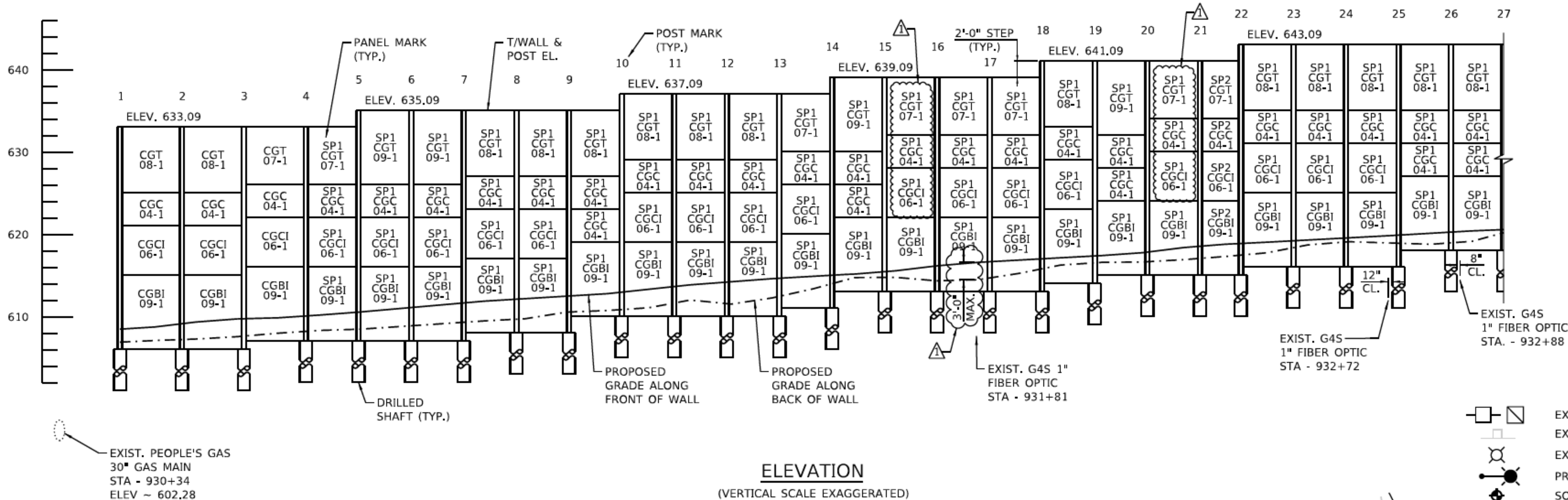
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16 —△1

BENCHMARK: BM28: FOUND BM 96 - CH "□" ON N CURB OF 95TH ST DIRECTLY BELOW W EDGE OF I-294 BRIDGE

EXISTING STRUCTURE: EXISTING PRECAST NOISE ABATEMENT WALL FROM STA. 930+41.41 TO STA. 938+75.95.

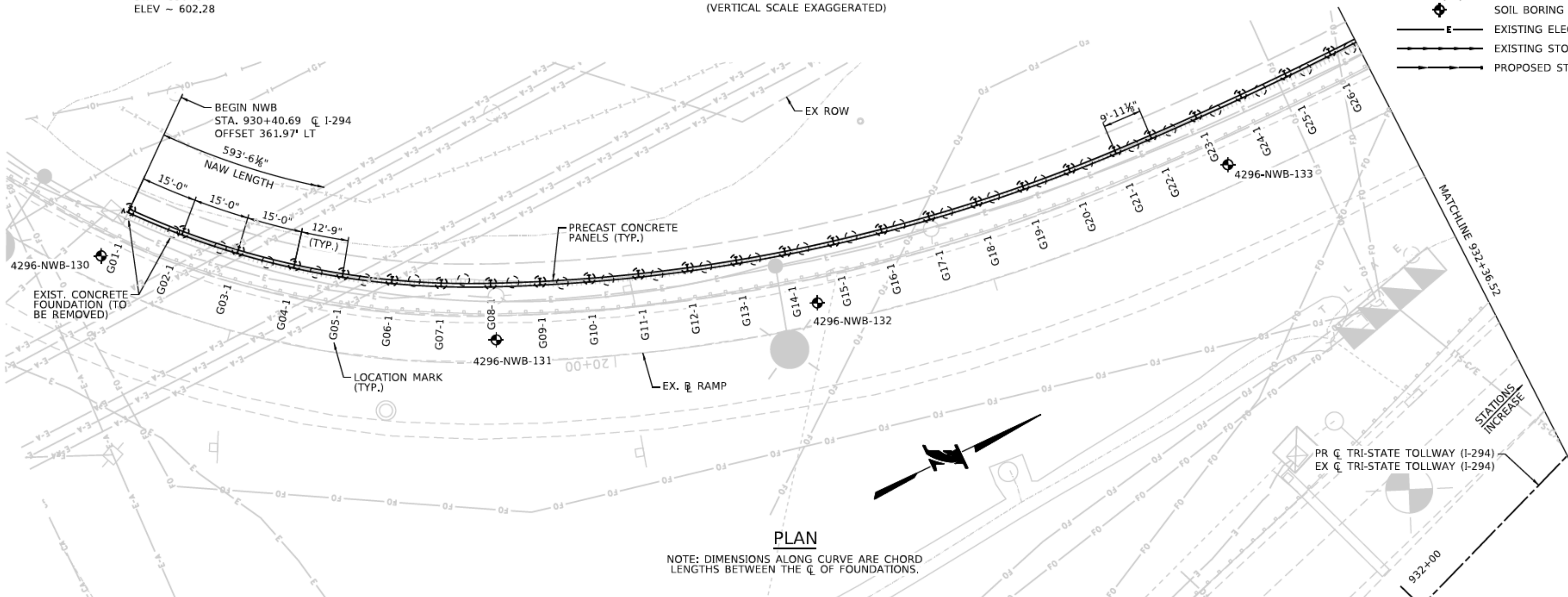
SALVAGE: NONE

PROPOSED STRUCTURE: CRASHWORTHY NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS ALONG WESTERN SHOULDER OF SB I-294 IS 593'-6⅛" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

NOTE: DIMENSIONS ALONG CURVE ARE CHORD LENGTHS BETWEEN THE ℄ OF FOUNDATIONS.

HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SD1) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

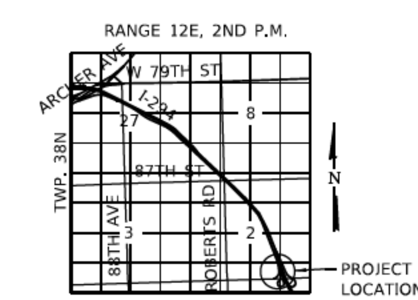
INDEX OF SHEETS

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWB-04.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

EXISTING UTILITIES
EXISTING TRAFFIC SIGN
EXISTING LIGHT POLE
PROPOSED LUMINAIRE
SOIL BORING LOCATION
EXISTING ELECTRIC LINE
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING NOISEWALL
PROPOSED NOISEWALL
PROPOSED DRILLED SHAFT
PROPOSED CATCH BASIN
ELECTRIC AERIAL LINE
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
GAS (50") LINE
GAS (12") LINE
ITS LINE
AGGREGATE PAVEMENT
WATER EDGE
SANITARY 12" PIPE
FENCE
EXISTING GUARDRAIL



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 930+40.69 TO 935+50.48
NOISE ABATEMENT WALL TS17.60N,SB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

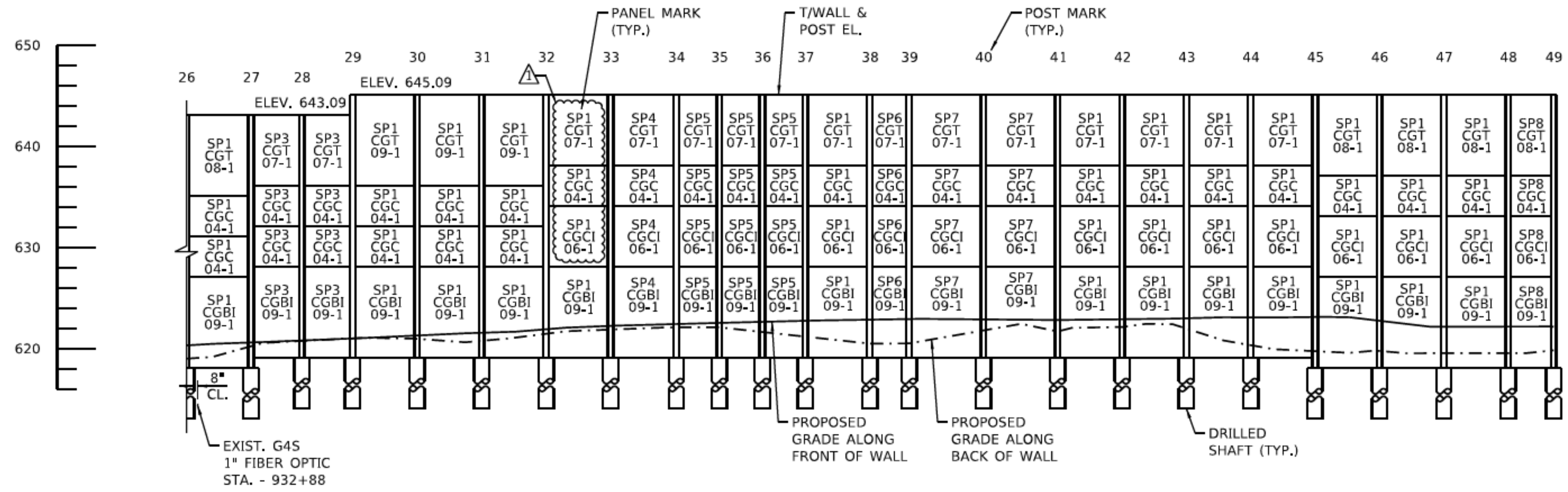
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO.1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS17.60N,SB (R)
GENERAL PLAN & ELEVATION

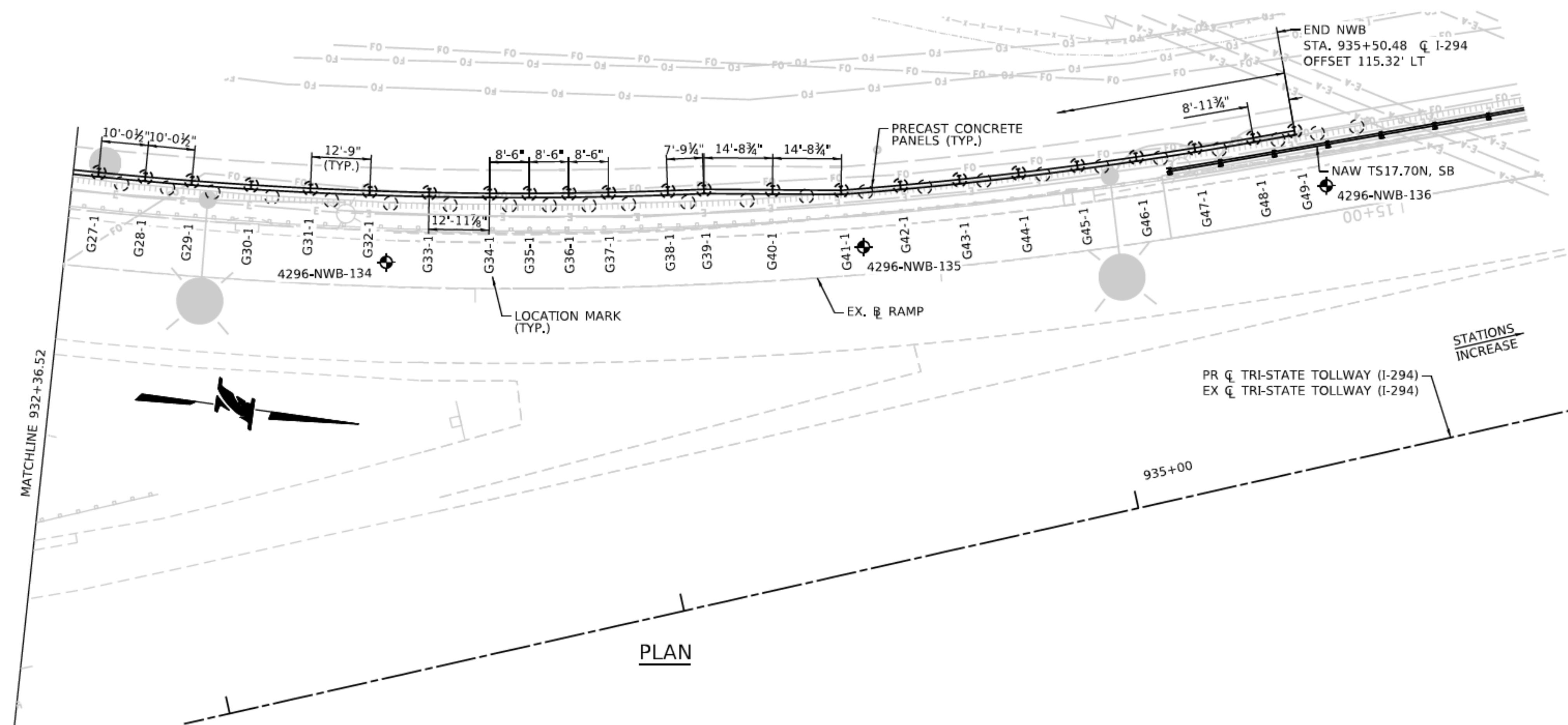
NWB-01
DRAWING NO.
1092 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.70N,SB NOT SHOWN FOR CLARITY.



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO.1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.60N,SB (R)
GENERAL PLAN & ELEVATION

NWB-02

DRAWING NO. 1093 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-1	9'-0"	14'-10"	11"	3
CGCI06-1	6'-0"	14'-10"	11"	3
SP1 CGBI09-1	9'-0"	12'-6⅞"	11"	34
SP1 CGCI06-1	6'-0"	12'-6⅞"	11"	26
SP2 CGBI09-1	9'-0"	9'-9⅛"	11"	1
SP2 CGCI06-1	6'-0"	9'-9⅛"	11"	1
SP3 CGBI09-1	9'-0"	9'-10½"	11"	2
SP4 CGBI09-1	9'-0"	12'-9⅞"	11"	1
SP4 CGCI06-1	6'-0"	12'-9⅞"	11"	1
SP5 CGBI09-1	9'-0"	8'-4"	11"	3
SP5 CGCI06-1	6'-0"	8'-4"	11"	3
SP6 CGBI09-1	9'-0"	7'-7¼"	11"	1
SP6 CGCI06-1	6'-0"	7'-7¼"	11"	1
SP7 CGBI09-1	9'-0"	14'-6⅝"	11"	2
SP7 CGCI06-1	6'-0"	14'-6⅝"	11"	2
SP8 CGBI09-1	9'-0"	8'-9¾"	11"	1
SP8 CGCI06-1	6'-0"	8'-9¾"	11"	1

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-1	4'-0"	14'-10"	9"	3
CGT07-1	7'-0"	14'-10"	9"	1
CGT08-1	8'-0"	14'-10"	9"	2
* SP1 CGC04-1	4'-0"	12'-6⅞"	9"	42
SP1 CGT07-1	7'-0"	12'-6⅞"	9"	12
SP1 CGT08-1	8'-0"	12'-6⅞"	9"	15
SP1 CGT09-1	9'-0"	12'-6⅞"	9"	7
SP2 CGC04-1	4'-0"	9'-9⅛"	9"	1
SP2 CGT07-1	7'-0"	9'-9⅛"	9"	1
* SP3 CGC04-1	4'-0"	9'-10½"	9"	4
SP3 CGT07-1	7'-0"	9'-10½"	9"	2
* SP4 CGC04-1	4'-0"	12'-9⅞"	9"	1
SP4 CGT07-1	7'-0"	12'-9⅞"	9"	1
* SP5 CGC04-1	4'-0"	8'-4"	9"	3
SP5 CGT07-1	7'-0"	8'-4"	9"	3
* SP6 CGC04-1	4'-0"	7'-7¼"	9"	1
SP6 CGT07-1	7'-0"	7'-7¼"	9"	1
* SP7 CGC04-1	4'-0"	14'-6⅝"	9"	2
SP7 CGT07-1	7'-0"	14'-6⅝"	9"	2
* SP8 CGC04-1	4'-0"	8'-9¾"	9"	1
SP8 CGT08-1	8'-0"	8'-9¾"	9"	1

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

1

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
BL	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
CL	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
PL	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

- * CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
- * CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
- ** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
- ** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
- ** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
- ** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
- SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

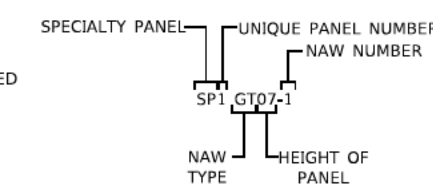
CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

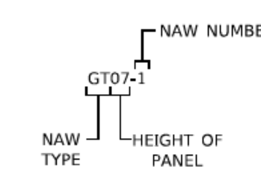
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design — 311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO.1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.60N,SB (R) PANEL SCHEDULE

NWB-03

DRAWING NO. 1094 OF 1762

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
G01-1	930+41.52	-362.26	606.09	587.59	18'-6"	3'-0"	589.59	16'-6"	01
G02-1	930+47.00	-348.32	606.09	587.59	18'-6"	3'-0"	589.59	16'-6"	02
G03-1	930+53.46	-334.79	606.09	587.59	18'-6"	3'-0"	589.59	16'-6"	03
G04-1	930+60.87	-321.77	607.09	588.59	18'-6"	3'-0"	590.59	16'-6"	04
G05-1	930+67.89	-311.14	607.09	588.09	19'-0"	3'-0"	590.59	16'-6"	05
G06-1	930+75.54	-300.96	607.09	588.09	19'-0"	3'-0"	590.59	16'-6"	06
G07-1	930+83.80	-291.25	607.09	588.09	19'-0"	3'-0"	590.59	16'-6"	07
G08-1	930+92.62	-282.07	608.09	589.59	18'-6"	3'-0"	591.59	16'-6"	08
G09-1	931+01.81	-273.24	608.09	589.59	18'-6"	3'-0"	591.59	16'-6"	09
G10-1	931+11.25	-264.68	610.09	591.59	18'-6"	3'-0"	593.59	16'-6"	10
G11-1	931+20.94	-256.40	610.09	591.59	18'-6"	3'-0"	593.59	16'-6"	11
G12-1	931+30.86	-248.40	610.09	591.59	18'-6"	3'-0"	593.59	16'-6"	12
G13-1	931+41.01	-240.69	610.09	591.59	18'-6"	3'-0"	593.59	16'-6"	13
G14-1	931+51.38	-233.28	611.09	592.09	19'-0"	3'-0"	594.59	16'-6"	14
G15-1	931+61.96	-226.17	613.09	594.59	18'-6"	3'-0"	596.59	16'-6"	15
G16-1	931+72.74	-219.38	613.09	594.59	18'-6"	3'-0"	596.59	16'-6"	16
G17-1	931+83.71	-212.90	613.09	594.59	18'-6"	3'-0"	596.59	16'-6"	17
G18-1	931+94.87	-206.74	613.09	594.09	19'-0"	3'-0"	596.59	16'-6"	18
G19-1	932+06.20	-200.90	614.09	595.59	18'-6"	3'-0"	597.59	16'-6"	19
G20-1	932+17.69	-195.40	615.09	596.59	18'-6"	3'-0"	598.59	16'-6"	20
G21-1	932+29.34	-190.23	615.09	596.59	18'-6"	3'-0"	598.59	16'-6"	21
G22-1	932+38.49	-186.37	615.09	596.09	19'-0"	3'-0"	598.59	16'-6"	22
G23-1	932+50.30	-181.57	616.09	597.59	18'-6"	3'-0"	599.59	16'-6"	23
G24-1	932+62.17	-176.94	616.09	597.59	18'-6"	3'-0"	599.59	16'-6"	24
G25-1	932+74.11	-172.47	616.09	597.59	18'-6"	3'-0"	599.59	16'-6"	25
G26-1	932+86.11	-168.18	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	26
G27-1	932+98.18	-164.05	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	27
G28-1	933+07.72	-160.93	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	28
G29-1	933+17.29	-157.90	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	29
G30-1	933+29.49	-154.22	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	30
G31-1	933+41.75	-150.71	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	31
G32-1	933+54.05	-147.38	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	32
G33-1	933+66.40	-144.22	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	33
G34-1	933+79.02	-141.18	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	34
G35-1	933+87.31	-139.29	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	35
G36-1	933+95.61	-137.48	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	36
G37-1	934+03.93	-135.74	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	37
G38-1	934+16.44	-133.29	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	38
G39-1	934+24.09	-131.88	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	39
G40-1	934+38.44	-128.53	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	40
G41-1	934+52.77	-125.18	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	41
G42-1	934+65.39	-123.43	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	42
G43-1	934+78.04	-121.85	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	43
G44-1	934+90.71	-120.45	619.09	600.59	18'-6"	3'-0"	602.59	16'-6"	44
G45-1	935+03.40	-119.23	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	45
G46-1	935+16.10	-118.20	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	46
G47-1	935+28.82	-117.34	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	47
G48-1	935+41.55	-116.65	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	48
G49-1	935+50.52	-116.20	618.09	599.59	18'-6"	3'-0"	601.59	16'-6"	49

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
01	W21x68	43'-6"	633.09
02	W21x68	43'-6"	633.09
03	W21x68	43'-6"	633.09
04	W21x68	42'-6"	633.09
05	W21x68	44'-6"	635.09
06	W21x68	44'-6"	635.09
07	W21x68	44'-6"	635.09
08	W21x68	43'-6"	635.09
09	W21x68	43'-6"	635.09
10	W21x68	43'-6"	637.09
11	W21x68	43'-6"	637.09
12	W21x68	43'-6"	637.09
13	W21x68	43'-6"	637.09
14	W21x68	44'-6"	639.09
15	W21x68	42'-6"	639.09
16	W21x68	42'-6"	639.09
17	W21x68	42'-6"	639.09
18	W21x68	44'-6"	641.09
19	W21x68	43'-6"	641.09
20	W21x68	42'-6"	641.09
21	W21x68	42'-6"	641.09
22	W21x68	44'-6"	643.09
23	W21x68	43'-6"	643.09
24	W21x68	43'-6"	643.09
25	W21x68	43'-6"	643.09
26	W21x68	41'-6"	643.09
27	W21x68	41'-6"	643.09
28	W21x68	40'-6"	643.09
29	W21x68	42'-6"	645.09
30	W21x68	42'-6"	645.09
31	W21x68	42'-6"	645.09
32	W21x68	42'-6"	645.09
33	W21x68	42'-6"	645.09
34	W21x68	42'-6"	645.09
35	W21x68	42'-6"	645.09
36	W21x68	42'-6"	645.09
37	W21x68	42'-6"	645.09
38	W21x68	42'-6"	645.09
39	W21x68	42'-6"	645.09
40	W21x68	42'-6"	645.09
41	W21x68	42'-6"	645.09
42	W21x68	42'-6"	645.09
43	W21x68	42'-6"	645.09
44	W21x68	42'-6"	645.09
45	W21x68	43'-6"	645.09
46	W21x68	43'-6"	645.09
47	W21x68	43'-6"	645.09
48	W21x68	43'-6"	645.09
49	W21x68	43'-6"	645.09

1

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT999915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	15,367

1

NAW TYPE

G = GROUND MOUNTED

1

01 — POST NUMBER

POST MARK CONVENTION

G01-1 — NAW TYPE (G); NAW NUMBER (01); SHAFT AND/OR POST LOCATION (1)

LOCATION MARK CONVENTION

NOTE

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

1

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design — 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO.1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.60N,SB (R)
POST SCHEDULE

NWB-04
DRAWING NO.

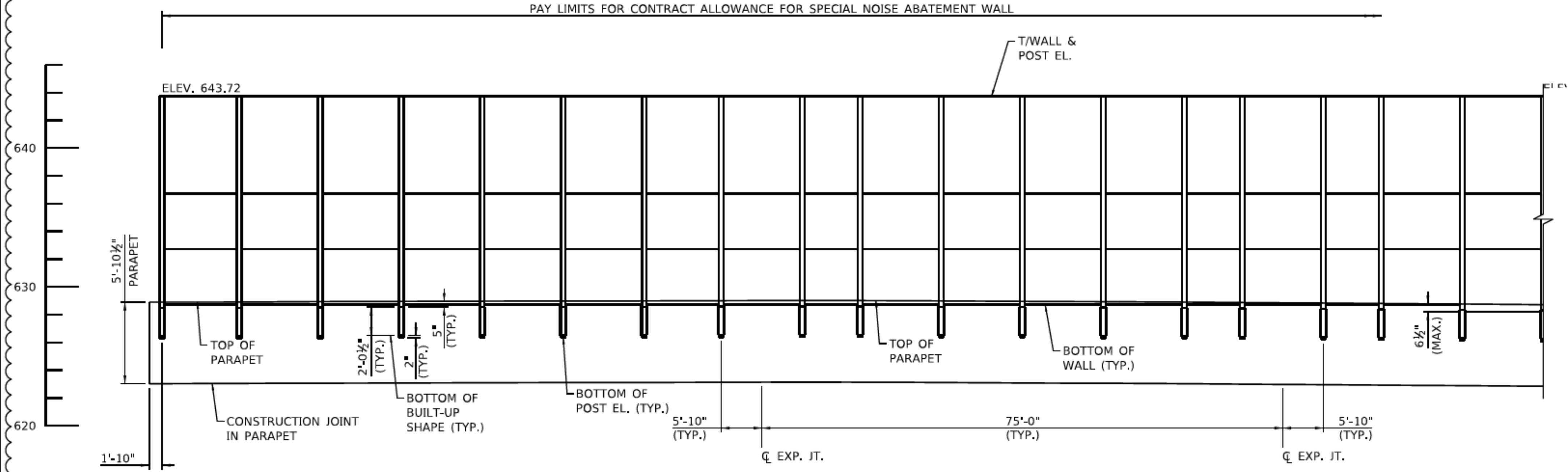
PLOT SCALE = 8.1667 ' / in.
PLOT DATE = 7/16/2020
PLOT TIME = 3:04:55 PM

BENCHMARK: BM29: CH "□" IN BACK OF CURB 100' N OF QEI24 AT N END OF GORE FROM NB RAMP FROM 95TH ST, WHERE CURB & GUTTER ENDS

EXISTING STRUCTURE: NONE

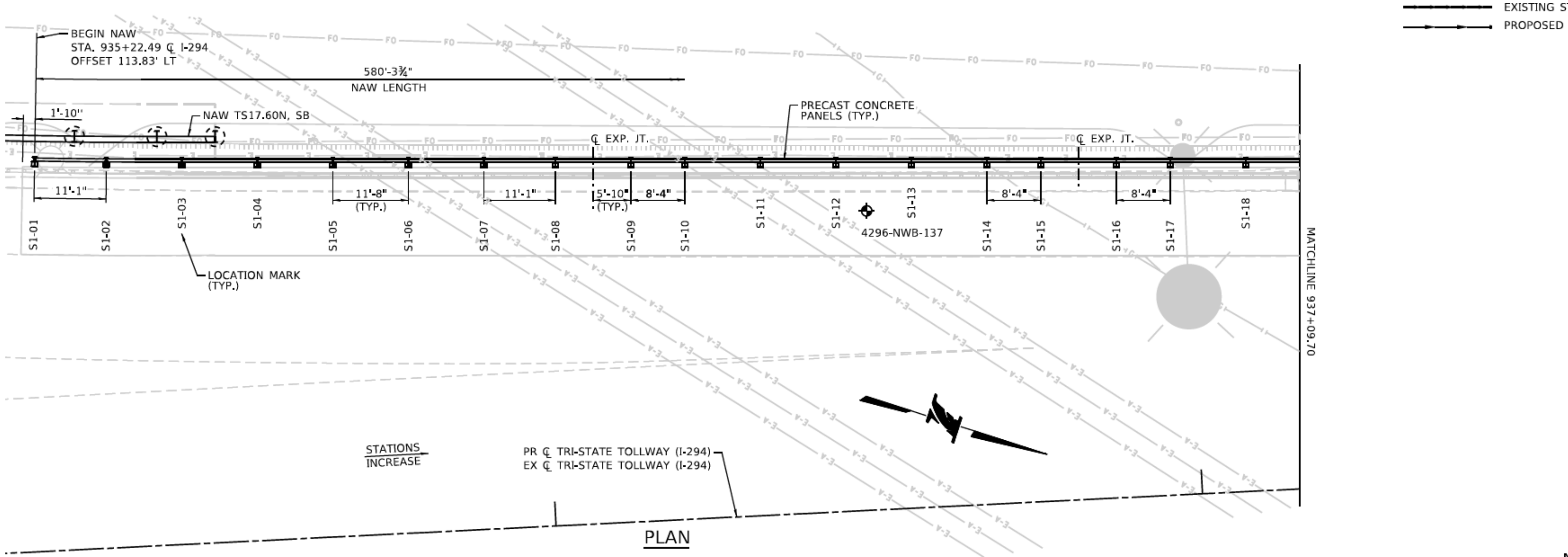
SALVAGE: NONE

PROPOSED STRUCTURE: STRUCTURE MOUNTED NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY STRUCTUAL MEMBER ATTACHED TO BACK OF PARAPET ALONG WESTERN SHOULDER OF SB I-294 IS 580'-3¾" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

INDEX OF SHEETS

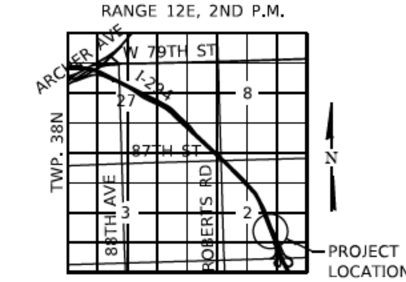
NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWC-05.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

EXISTING TRAFFIC SIGN
EXISTING LIGHT POLE
PROPOSED LUMINAIRE
SOIL BORING LOCATION
EXISTING ELECTRIC LINE
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING GUARDRAIL
PROPOSED CATCH BASIN
ELECTRIC AERIAL LINE
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
GAS LINE
GAS (12") LINE
ITS LINE
PROPOSED NOISEWALL
PROPOSED DRILLED SHAFT
SANITARY (18") PIPE
FENCE
EXISTING NOISEWALL
AGGREGATE PAVEMENT

RANGE 12E, 2ND P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 935+22.49 TO 941+02.33
NOISE ABATEMENT WALL TS17.70N,SB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
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Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

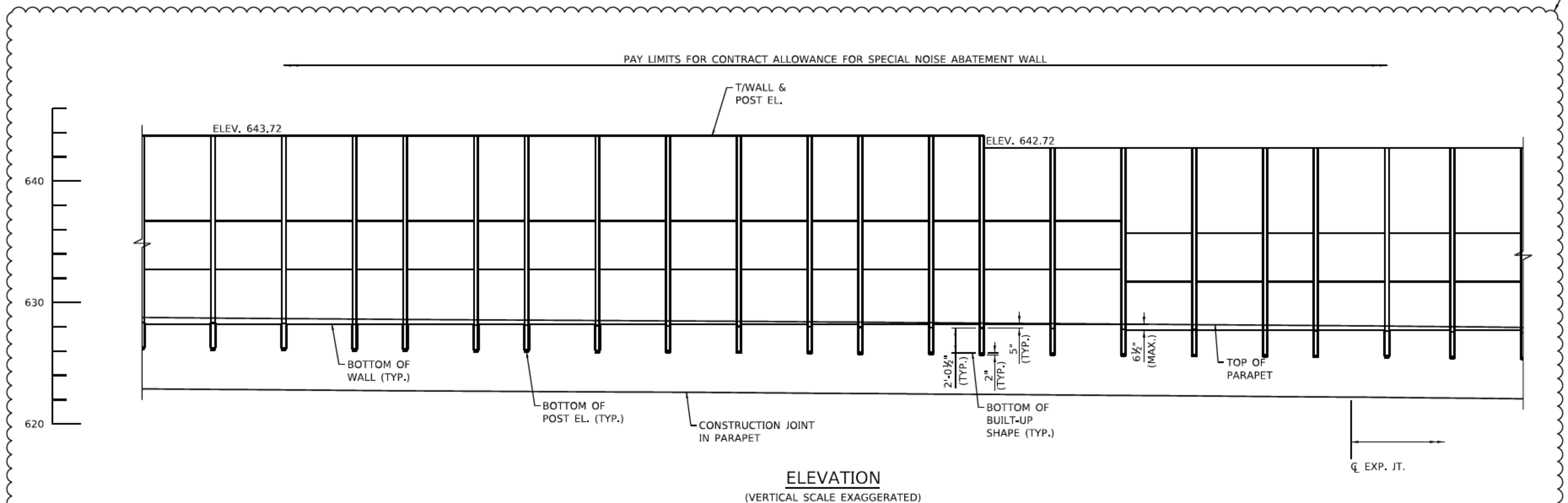
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

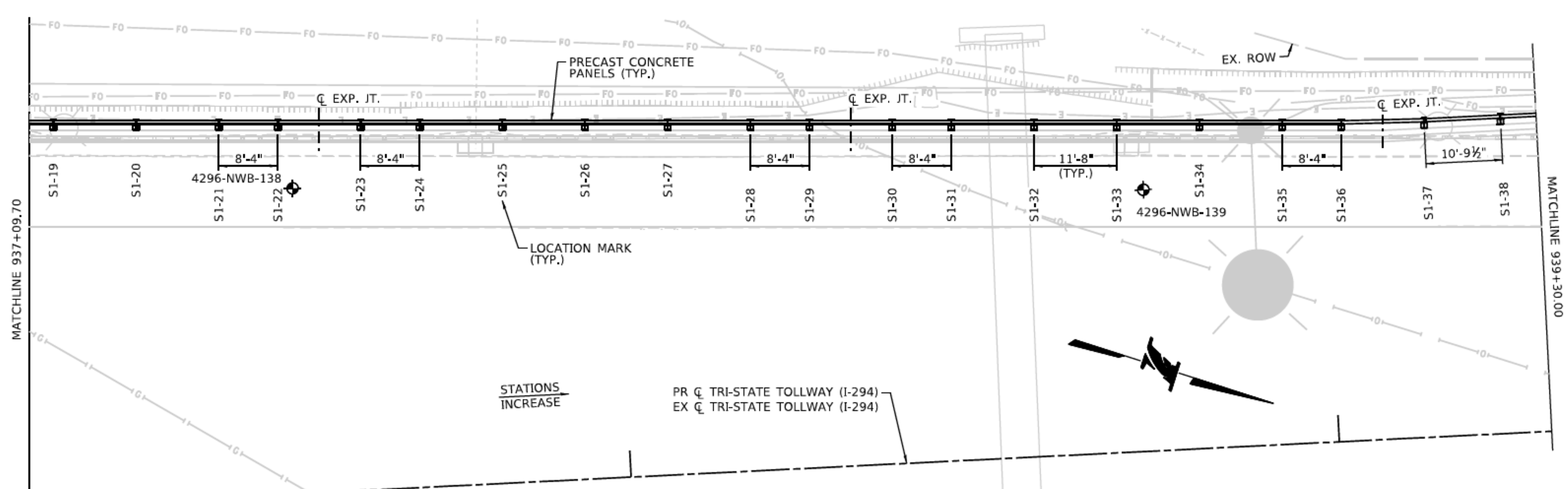
NOISE ABATEMENT WALL TS17.70N,SB
GENERAL PLAN & ELEVATION

NWC-01
DRAWING NO.
1098 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

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REVISIONS

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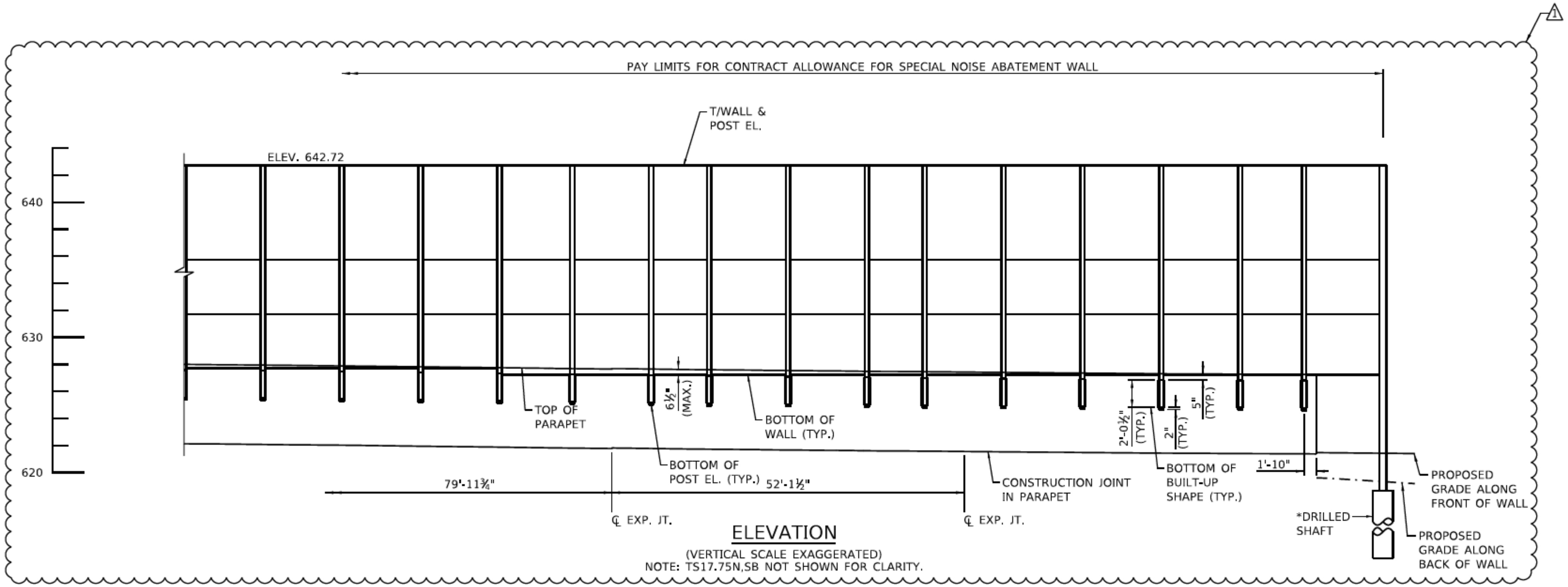
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.70N,SB
GENERAL PLAN & ELEVATION

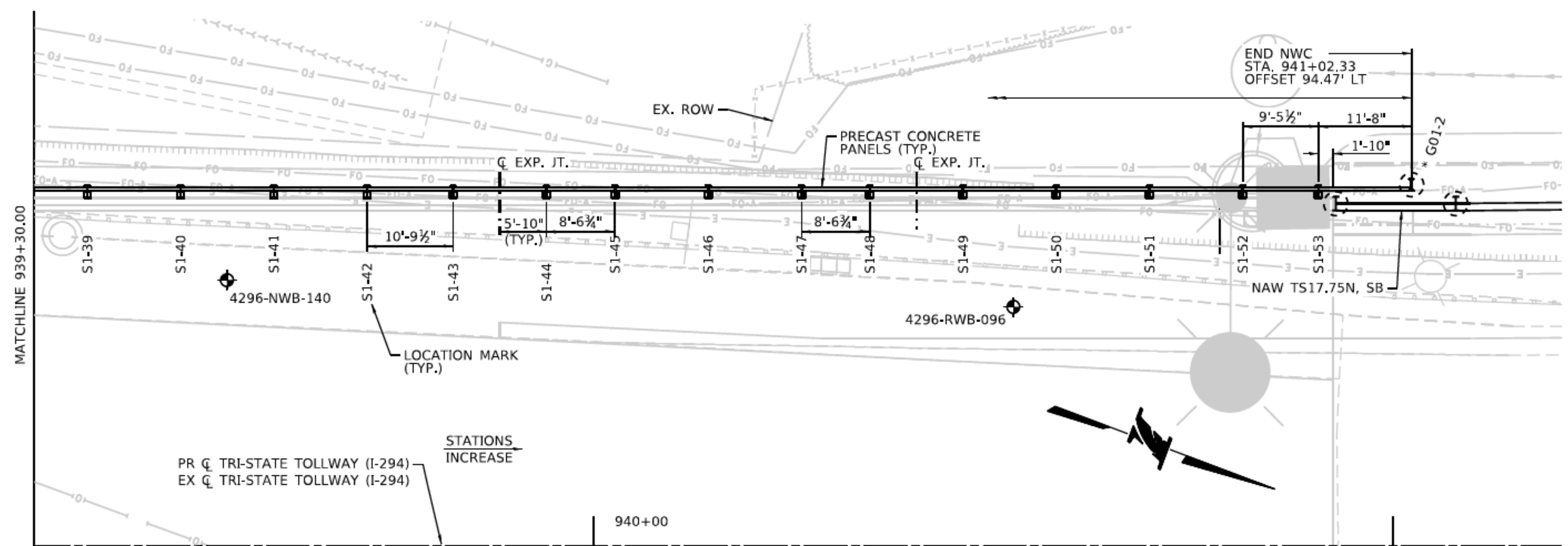
NWC-02

DRAWING NO. 1099 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)
NOTE: TS17.75N,SB NOT SHOWN FOR CLARITY.



PLAN

* FOUNDATION AND POST INFORMATION INCLUDED IN NAW TS17.75N,SB SCHEDULES

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DOWNERS GROVE, ILLINOIS 60515

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CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.70N,SB
GENERAL PLAN & ELEVATION

NWC-03
DRAWING NO.
1100 OF 1762

STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G-12.

* CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G12 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL
ST = STRUCTURE MOUNTED TOP PANEL
SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL
SP = SPECIALTY PANEL

TYPICAL PANEL NAMING CONVENTION

SPECIALTY PANEL NAMING CONVENTION

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
℘	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

DRAWN BY CMC DATE 05/26/2020
CHECKED BY CDL DATE 05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
△1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS17.70N,SB
PANEL SCHEDULE

NWC-04
DRAWING NO.
1101 OF 1762

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
G6-01	FOUNDATION DATA INCLUDED WITH NAW TS17.75N,SB SCHEDULE										

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

	PAY ITEM NO.	ITEM	UNIT	TOTAL
*	N/A	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED, HEIGHT >18'	SQ. FT.	8,693

*QUANTITY PROVIDED FOR INFORMATION ONLY. PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED >18' WILL BE PAID IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION". DETAILS TO BE ISSUED TO SUCCESSFUL BIDDER BY CONSTRUCTION REVISION.

NAW TYPE

S = STRUCTURE MOUNTED

01
POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G12.

DRAWN BY	CMC	DATE	05/26/2020
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CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.70N,SB
POST SCHEDULE

NWC-05
DRAWING NO.
1102 OF 1762

BENCHMARK: BM31: CH "□" ON SWX (HIGH POINT) OF ELECTRIC HANDHOLE IN GRASS E OF NBL SHOULDER, APPROX 150' N OF MILE MARKER 18

EXISTING STRUCTURE: EXISTING PRECAST NOISE ABATEMENT WALL.

SALVAGE: NONE

PROPOSED STRUCTURE: NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS ALONG WESTERN SHOULDER OF SB I-294 IS 3677'-5⅝" IN TOTAL COMBINED LENGTH AND VARYING IN HEIGHT.

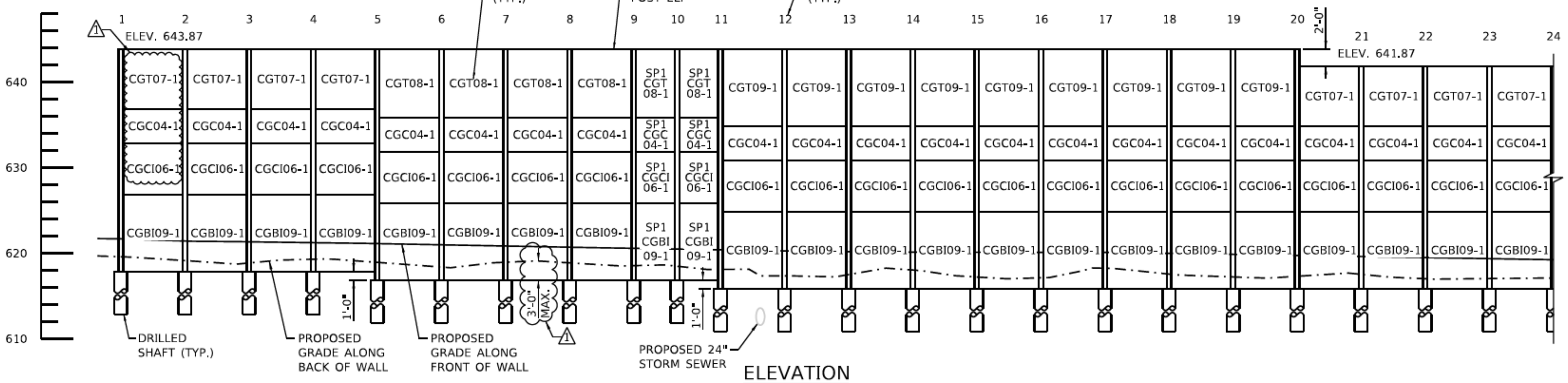
HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

INDEX OF SHEETS

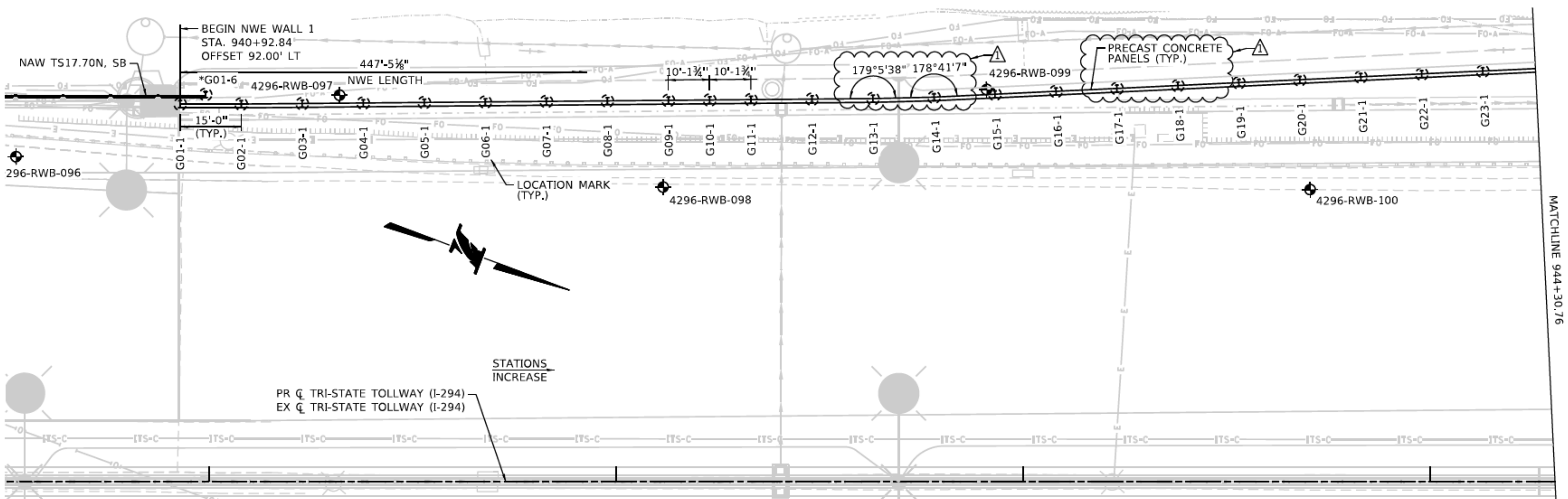


ELEVATION

(VERTICAL SCALE EXAGGERATED)
NOTE: TS17.70N,SB NOT SHOWN FOR CLARITY.

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEETS NWE-12, NWE-14, NWE-16, NWE-18 & NWE-20.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

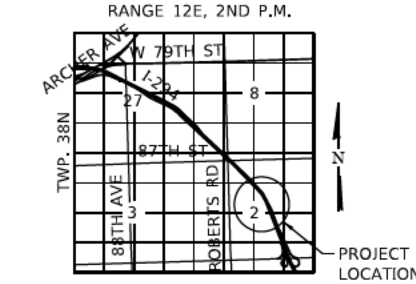


PLAN

LEGEND

- EXISTING TRAFFIC SIGN
- EXISTING LIGHT POLE
- PROPOSED LUMINAIRE
- SOIL BORING LOCATION
- EXISTING ELECTRIC LINE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- SANITARY (18") PIPE
- PROPOSED CATCH BASIN
- FIBER OPTIC LINE
- FIBER OPTIC AERIAL LINE
- GAS (12") LINE
- FENCE
- ITS COMMUNICATIONS CONDUIT
- ITS ELECTRICAL CONDUIT
- EXISTING NOISEWALL
- PROPOSED NOISEWALL
- PROPOSED DRILLED SHAFT
- EXISTING GUARDRAIL
- EXISTING VEGETATION
- AGGREGATE PAVEMENT
- EDGE OF WATER

RANGE 12E, 2ND P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 940+92.84 TO 976+54.11
NOISE ABATEMENT WALL TS17.75N,SB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design

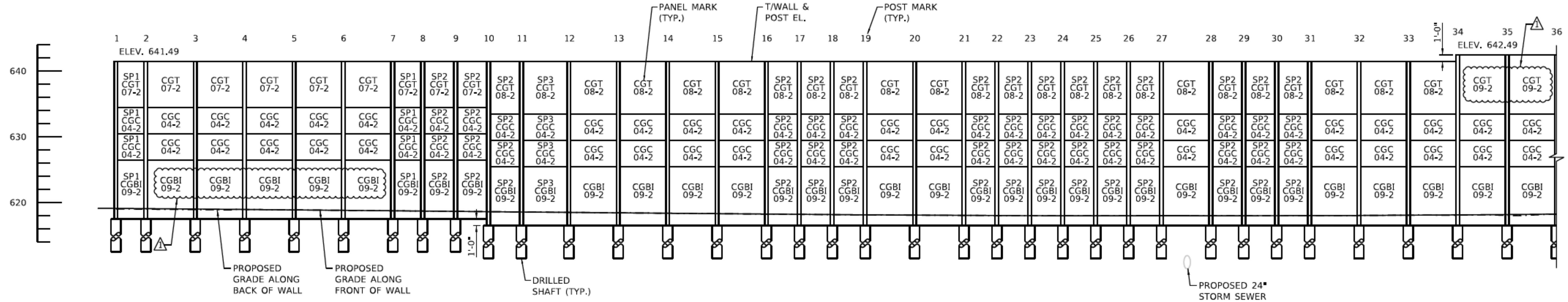
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

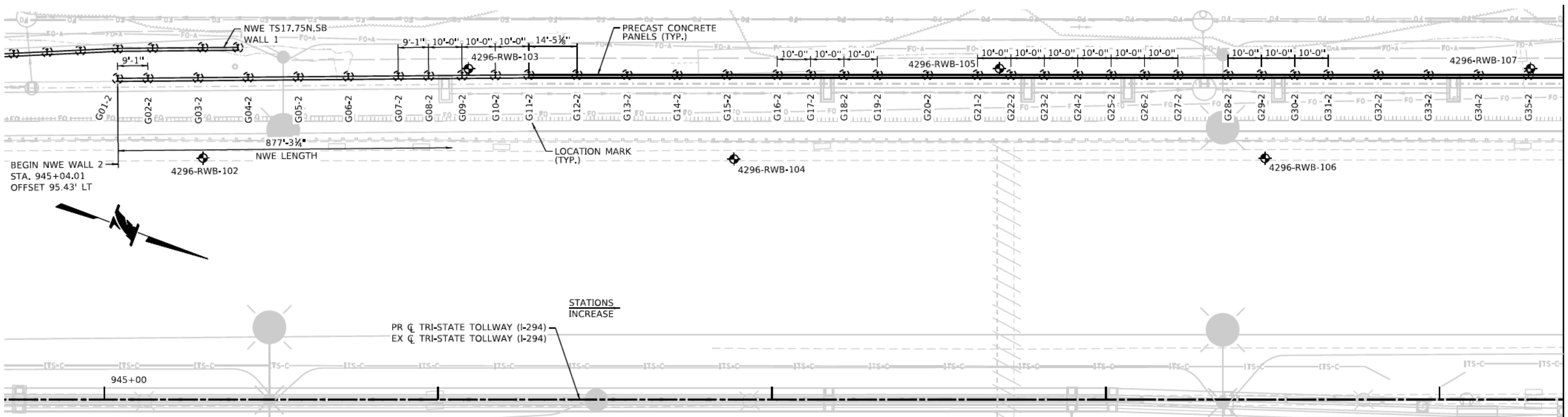
NWE-01
DRAWING NO.
1112 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.75N,SB WALL 1 NOT SHOWN FOR CLARITY.



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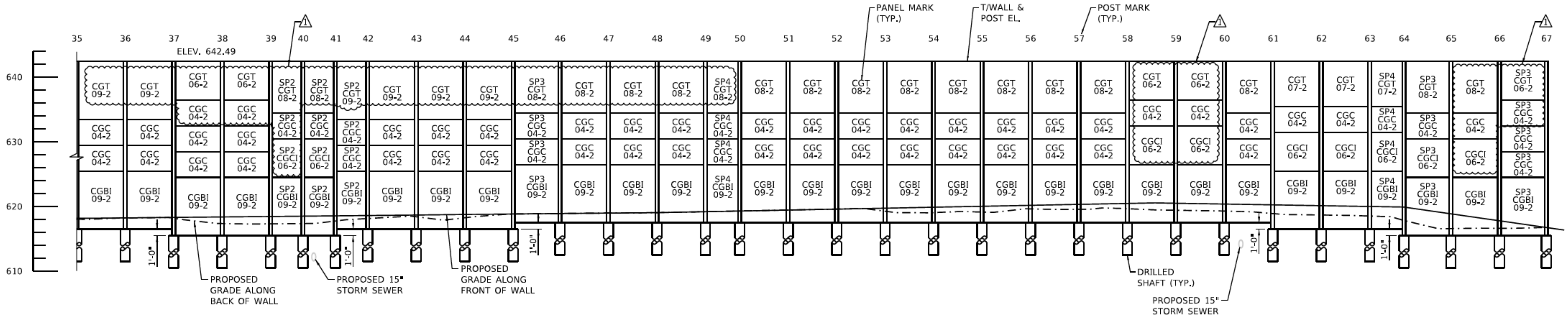
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

NWE-03

DRAWING NO. 1114 OF 1762

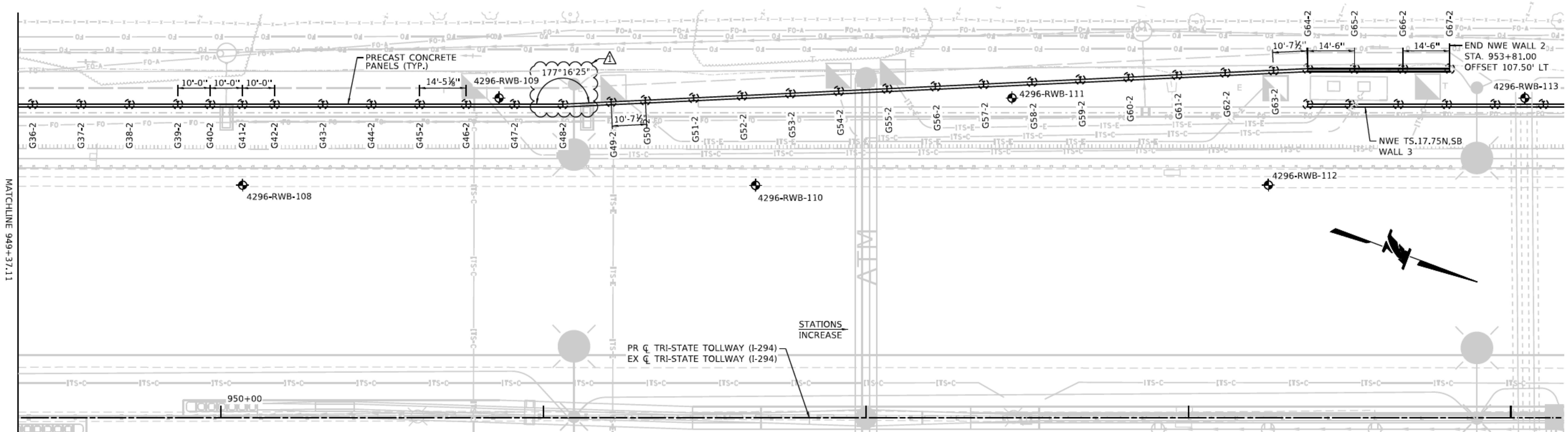
PLOT TIME = 1:11:21 PM PLOT DATE = 7/20/2020 PLOT SCALE = 0.1667 ' / in.



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.75N,SB WALL 3 NOT SHOWN FOR CLARITY.



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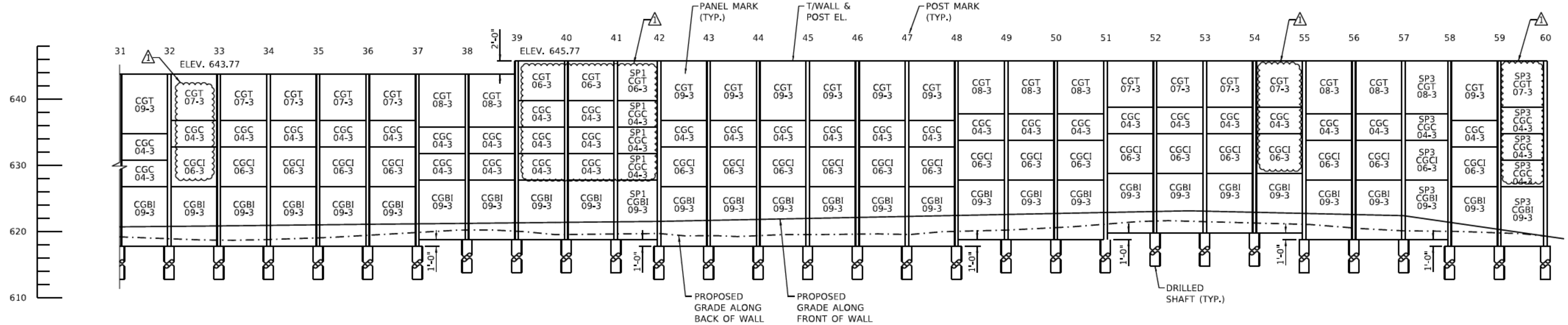
NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

NWE-04

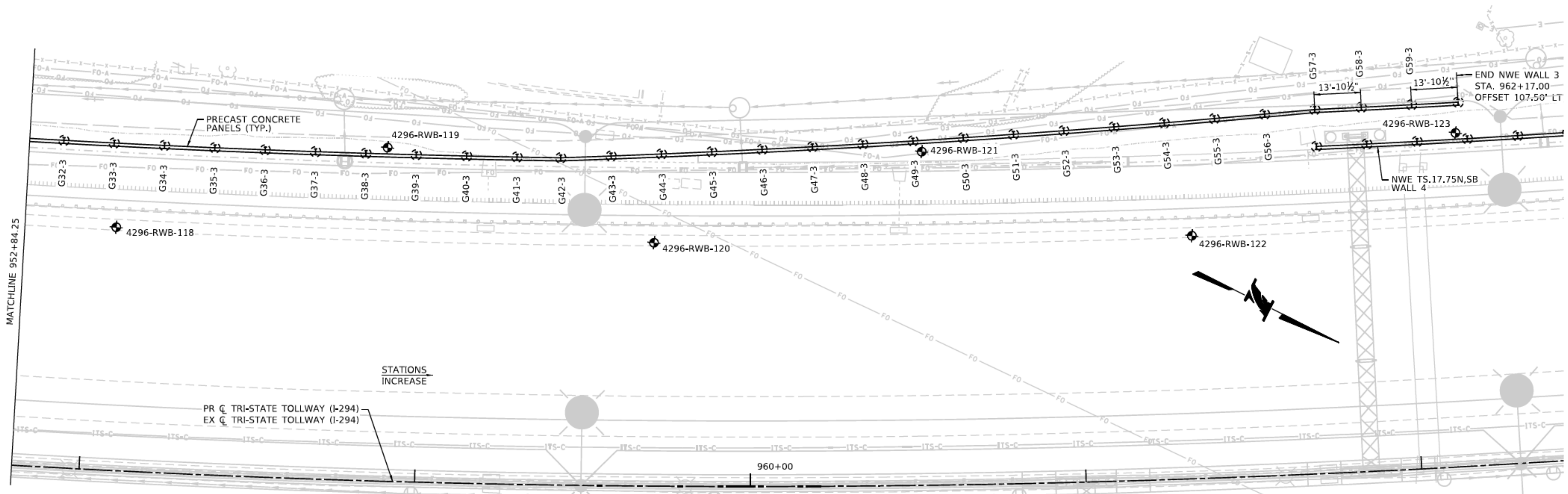
DRAWING NO. 1115 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.75N,SB WALL 4 NOT SHOWN FOR CLARITY.



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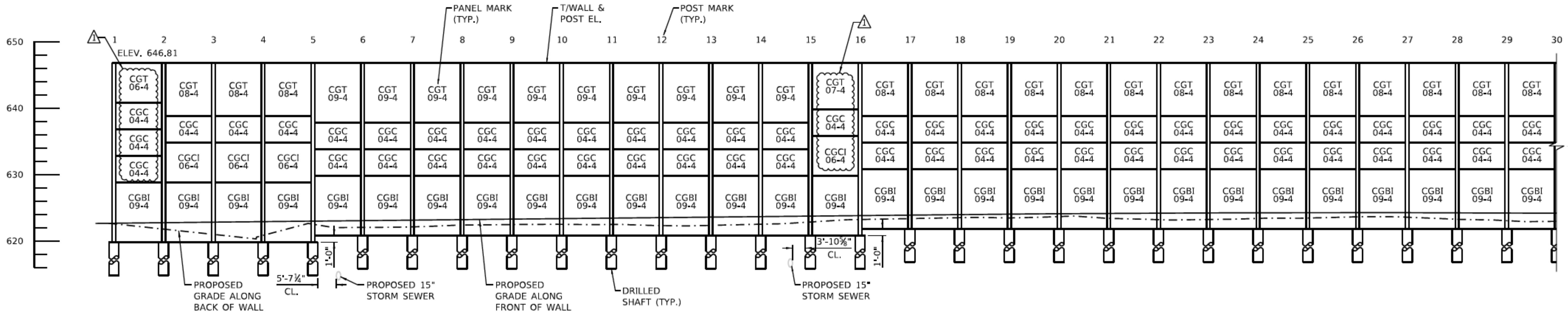
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

NWE-06

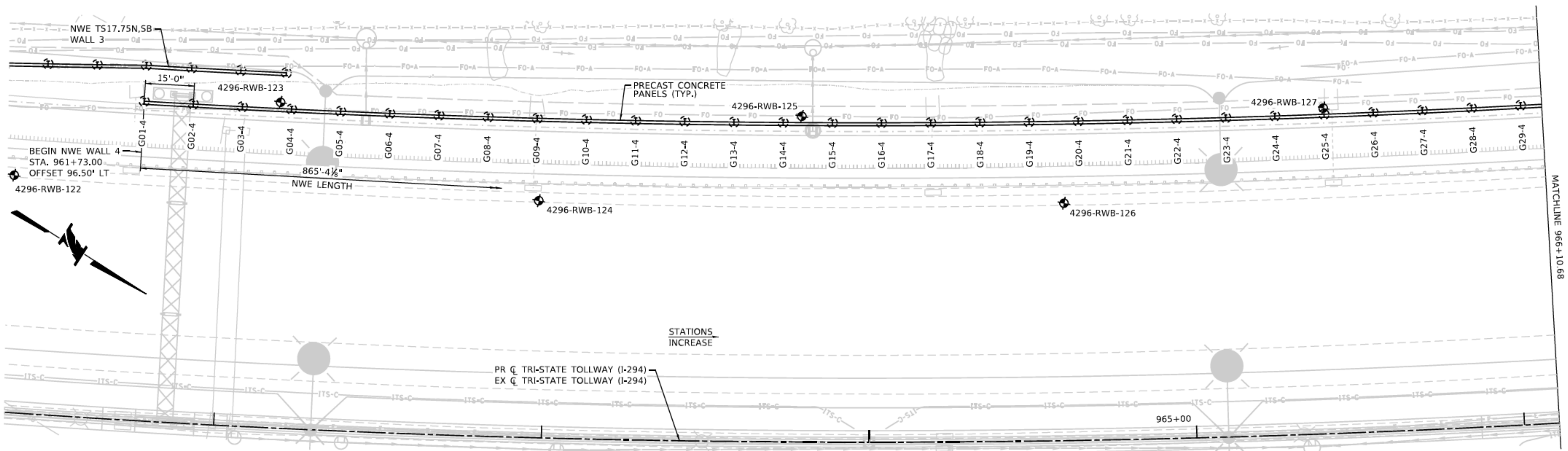
DRAWING NO. 1117 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.75N,SB WALL 3 NOT SHOWN FOR CLARITY.



PLAN

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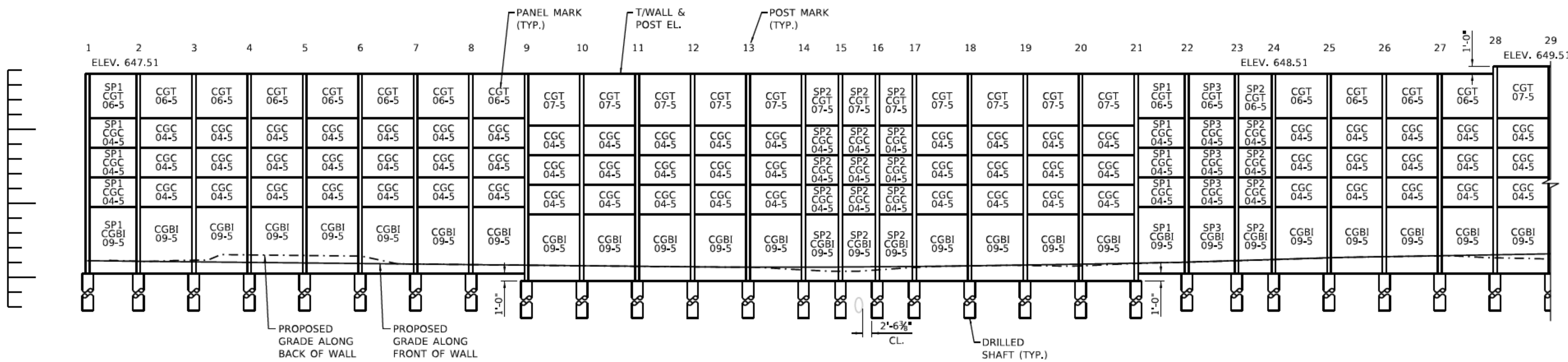
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

NWE-07

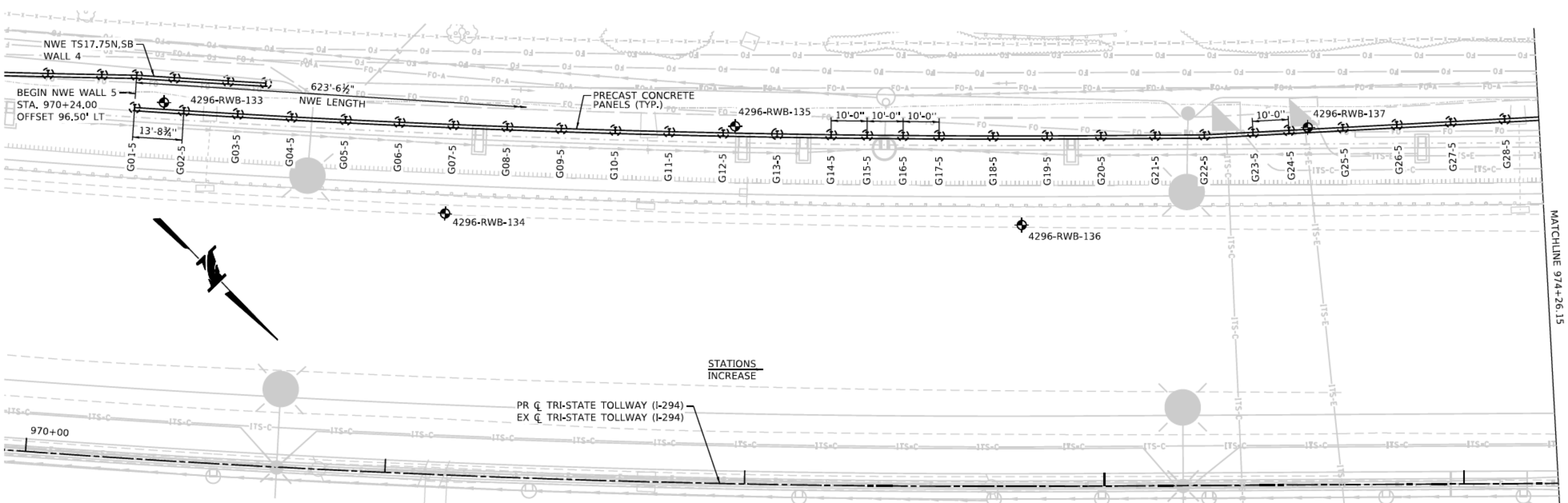
DRAWING NO.
1118 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)

NOTE: TS17.75N,SB WALL 4 NOT SHOWN FOR CLARITY.



PLAN

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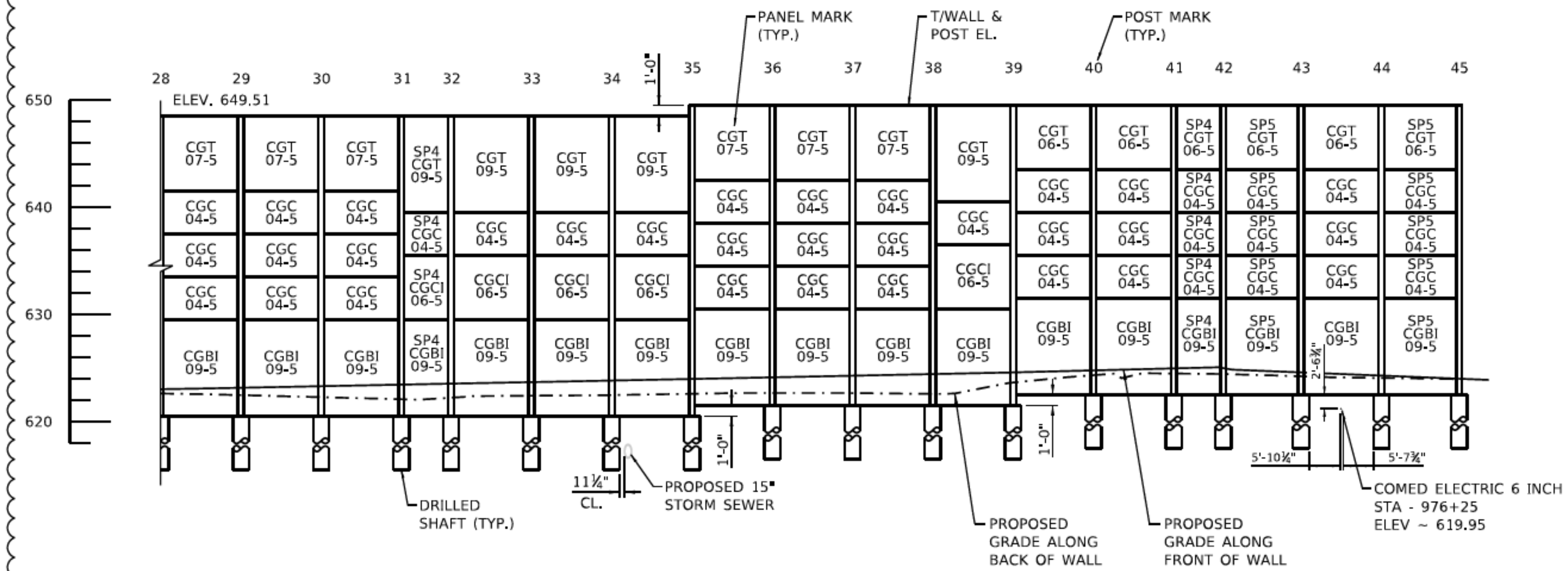
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

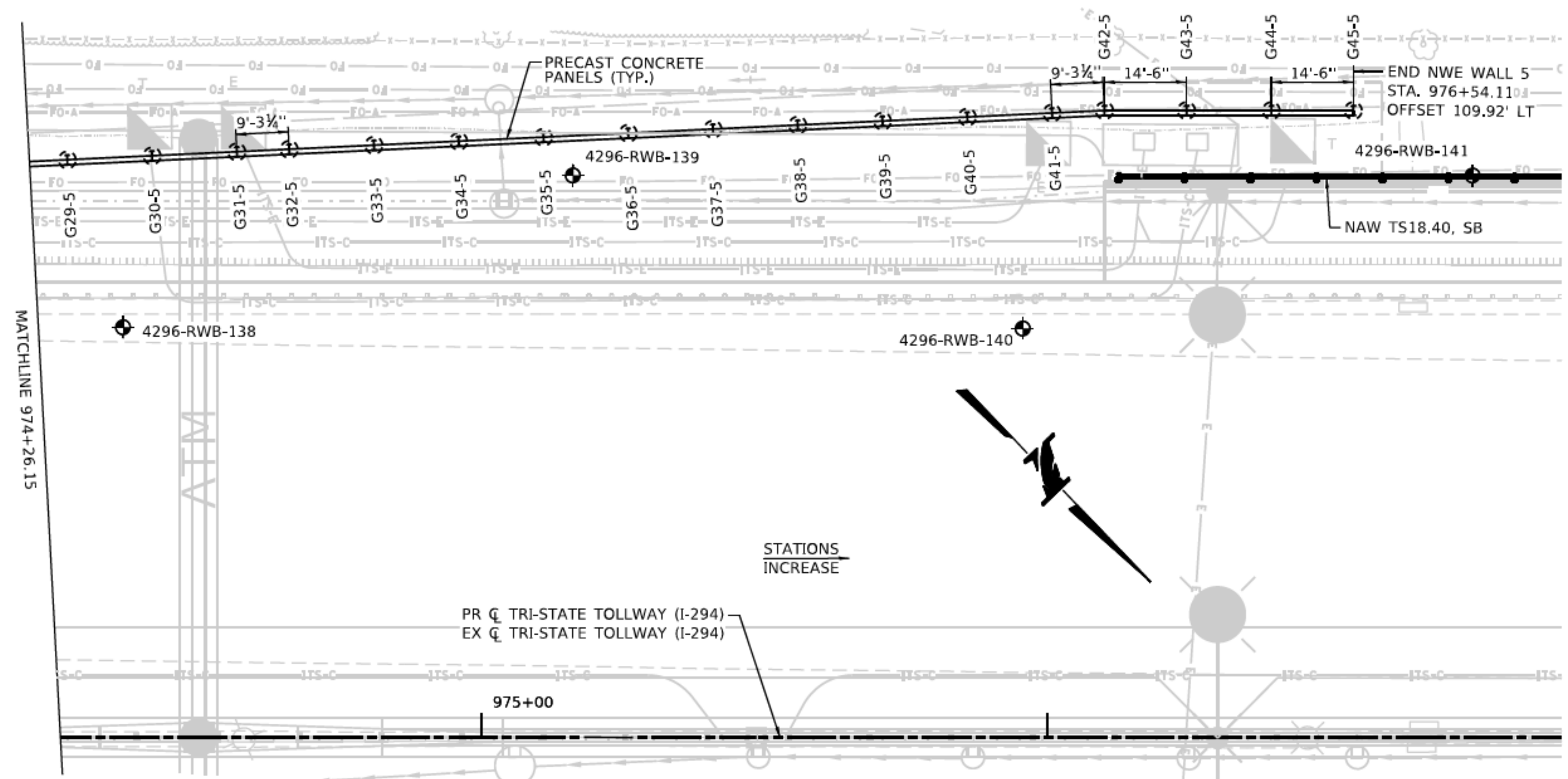
NWE-09

DRAWING NO.
1120 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)
NOTE: TS18.40N,SB NOT SHOWN FOR CLARITY.



PLAN

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CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
GENERAL PLAN & ELEVATION

NWE-10
DRAWING NO.
1121 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-1	9'-0"	14'-10"	11"	25
CGCI06-1	6'-0"	14'-10"	11"	23
SP1 CGCI06-1	6'-0"	9'-11 3/4"	11"	2
SP1 CGBI09-1	9'-0"	9'-11 3/4"	11"	2
SP2 CGBI09-1	9'-0"	9'-9 7/8"	11"	2
SP3 CGBI09-1	9'-0"	10'-11 1/2"	11"	1
SP4 CGBI09-1	9'-0"	10'-4"	11"	2

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-1	4'-0"	14'-10"	9"	27
CGT07-1	7'-0"	14'-10"	9"	10
CGT08-1	8'-0"	14'-10"	9"	6
CGT09-1	9'-0"	14'-10"	9"	9
* SP1 CGC04-1	4'-0"	9'-11 3/4"	9"	2
SP1 CGT08-1	8'-0"	9'-11 3/4"	9"	2
* SP2 CGC04-1	4'-0"	9'-9 7/8"	9"	4
SP2 CGT08-1	8'-0"	9'-9 7/8"	9"	2
* SP3 CGC04-1	4'-0"	10'-11 1/2"	9"	2
SP3 CGT08-1	8'-0"	10'-11 1/2"	9"	1
* SP4 CGC04-1	4'-0"	10'-4"	9"	4
SP4 CGT08-1	8'-0"	10'-4"	9"	2

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

1

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2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
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4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
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8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
℞	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

- * CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
- * CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
- ** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
- ** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
- ** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
- ** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
- SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

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ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

SPECIALTY PANEL — UNIQUE PANEL NUMBER — NAW NUMBER

SP1 GT07-1

NAW TYPE — HEIGHT OF PANEL

SPECIALTY PANEL NAMING CONVENTION

NAW NUMBER

GT07-1

NAW TYPE — HEIGHT OF PANEL

TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB PANEL SCHEDULE

NWE-11
DRAWING NO.
1122 OF 1762

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
** G01-6	940+99.08	-95.17	618.22	599.72	18'-6"	3'-0"	601.72	16'-6"	01
G01-1	940+92.84	-92.88	617.87	599.37	18'-6"	3'-0"	601.37	16'-6"	01
G02-1	941+07.84	-92.88	617.87	599.37	18'-6"	3'-0"	601.37	16'-6"	02
G03-1	941+22.84	-92.99	617.87	599.37	18'-6"	3'-0"	601.37	16'-6"	03
G04-1	941+37.84	-93.13	617.87	599.37	18'-6"	3'-0"	601.37	16'-6"	04
G05-1	941+52.84	-93.26	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	05
G06-1	941+67.84	-93.39	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	06
G07-1	941+82.84	-93.52	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	07
G08-1	941+97.84	-93.65	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	08
G09-1	942+12.84	-93.78	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	09
G10-1	942+22.98	-93.87	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	10
G11-1	942+33.12	-93.95	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	11
G12-1	942+48.12	-94.08	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	12
G13-1	942+63.12	-94.21	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	13
G14-1	942+78.12	-94.58	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	14
G15-1	942+93.10	-95.29	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	15
G16-1	943+08.08	-96.01	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	16
G17-1	943+23.07	-96.72	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	17
G18-1	943+38.05	-97.43	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	18
G19-1	943+53.03	-98.14	615.87	596.87	19'-0"	3'-0"	599.37	16'-6"	19
G20-1	943+68.02	-98.85	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	20
G21-1	943+83.00	-99.56	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	21
G22-1	943+97.98	-100.27	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	22
G23-1	944+12.97	-100.99	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	23
G24-1	944+27.95	-101.70	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	24
G25-1	944+42.93	-102.41	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	25
G26-1	944+57.92	-103.12	615.87	597.37	18'-6"	3'-0"	599.37	16'-6"	26
G27-1	944+72.90	-103.83	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	27
G28-1	944+82.89	-104.31	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	28
G29-1	944+92.88	-104.78	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	29
G30-1	945+04.01	-105.31	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	30
G31-1	945+14.50	-105.49	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	31
G32-1	945+29.50	-105.62	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	32
G33-1	945+40.00	-105.62	616.87	598.37	18'-6"	3'-0"	600.37	16'-6"	33

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
54	W18x71	41'-0"	642.72
01	W21x68	42'-6"	643.87
02	W21x68	42'-6"	643.87
03	W21x68	42'-6"	643.87
04	W21x68	42'-6"	643.87
05	W21x68	43'-6"	643.87
06	W21x68	43'-6"	643.87
07	W21x68	43'-6"	643.87
08	W21x68	43'-6"	643.87
09	W21x68	43'-6"	643.87
10	W21x68	43'-6"	643.87
11	W21x68	44'-6"	643.87
12	W21x68	44'-6"	643.87
13	W21x68	44'-6"	643.87
14	W21x68	44'-6"	643.87
15	W21x68	44'-6"	643.87
16	W21x68	44'-6"	643.87
17	W21x68	44'-6"	643.87
18	W21x68	44'-6"	643.87
19	W21x68	44'-6"	643.87
20	W21x68	44'-6"	643.87
21	W21x68	42'-6"	641.87
22	W21x68	42'-6"	641.87
23	W21x68	42'-6"	641.87
24	W21x68	42'-6"	641.87
25	W21x68	42'-6"	641.87
26	W21x68	42'-6"	641.87
27	W21x68	41'-6"	641.87
28	W21x68	41'-6"	641.87
29	W21x68	41'-6"	641.87
30	W21x68	41'-6"	641.87
31	W21x68	41'-6"	641.87
32	W21x68	41'-6"	641.87
33	W21x68	41'-6"	641.87

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	11,759

** POSTS AND FOUNDATIONS ARE A PART OF NAW TS17.70N,SB.

NAW TYPE

G = GROUND MOUNTED

01 – POST NUMBER

POST MARK CONVENTION

G01-1 – NAW TYPE; NAW NUMBER; SHAFT AND/OR POST LOCATION

LOCATION MARK CONVENTION

NOTE

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK♦Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
POST SCHEDULE

NWE-12
DRAWING NO.
1123 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-2	9'-0"	14'-10"	11"	40
CGCI06-2	6'-0"	14'-10"	11"	5
SP1 CGBI09-2	9'-0"	8'-11"	11"	2
SP2 CGCI06-2	6'-0"	9'-10"	11"	2
SP2 CGBI09-2	9'-0"	9'-10"	11"	18
SP3 CGCI06-2	6'-0"	14'-4"	11"	1
SP3 CGBI09-2	9'-0"	14'-3⅛"	11"	4
SP4 CGCI06-2	6'-0"	10'-5⅜"	11"	1
SP4 CGBI09-2	9'-0"	10'-5⅛"	11"	2

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-2	4'-0"	14'-10"	9"	77
CGT06-2	6'-0"	14'-10"	9"	4
CGT07-2	7'-0"	14'-10"	9"	7
CGT08-2	8'-0"	14'-10"	9"	23
CGT09-2	9'-0"	14'-10"	9"	6
* SP1 CGC04-2	4'-0"	8'-11"	9"	4
SP1 CGT07-2	7'-0"	8'-11"	9"	2
* SP2 CGC04-2	4'-0"	9'-10"	9"	34
SP2 CGT07-2	7'-0"	9'-10"	9"	2
SP2 CGT08-2	8'-0"	9'-10"	9"	15
SP2 CGT09-2	9'-0"	9'-10"	9"	1
* SP3 CGC04-2	4'-0"	14'-3⅛"	9"	8
SP3 CGT06-2	6'-0"	14'-4"	9"	1
SP3 CGT08-2	8'-0"	14'-3⅛"	9"	3
* SP4 CGC04-2	4'-0"	10'-5⅛"	9"	3
SP4 CGT07-2	7'-0"	10'-5⅜"	9"	1
SP4 CGT08-2	8'-0"	10'-5⅛"	9"	1

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SHLDR.	SHOULDER
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SQ. FT.	SQUARE FOOT
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T/	TOP OF
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U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
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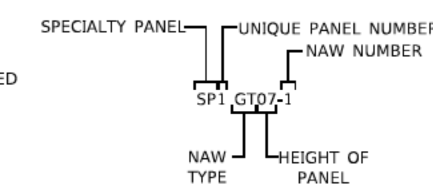
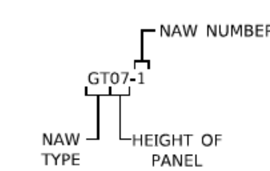
ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design
311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
PANEL SCHEDULE

NWE-13
DRAWING NO.
1124 OF 1762

PLOT TIME = 1:13:26 PM
PLOT DATE = 7/20/2020

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
G01-2	945+04.00	-96.31	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	01
G02-2	945+13.08	-96.39	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	02
G03-2	945+28.08	-96.52	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	03
G04-2	945+43.08	-96.65	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	04
G05-2	945+58.08	-96.78	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	05
G06-2	945+73.08	-96.91	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	06
G07-2	945+88.08	-97.04	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	07
G08-2	945+97.16	-97.12	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	08
G09-2	946+07.16	-97.21	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	09
G10-2	946+17.16	-97.29	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	10
G11-2	946+27.16	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	11
G12-2	946+41.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	12
G13-2	946+56.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	13
G14-2	946+71.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	14
G15-2	946+86.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	15
G16-2	947+01.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	16
G17-2	947+11.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	17
G18-2	947+21.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	18
G19-2	947+31.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	19
G20-2	947+46.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	20
G21-2	947+61.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	21
G22-2	947+71.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	22
G23-2	947+81.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	23
G24-2	947+91.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	24
G25-2	948+01.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	25
G26-2	948+11.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	26
G27-2	948+21.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	27
G28-2	948+36.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	28
G29-2	948+46.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	29
G30-2	948+56.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	30
G31-2	948+66.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	31
G32-2	948+81.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	32
G33-2	948+96.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	33
G34-2	949+11.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	34
G35-2	949+26.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	35
G36-2	949+41.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	36
G37-2	949+56.58	-97.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	37
G38-2	949+71.58	-97.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	38
G39-2	949+86.58	-97.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	39
G40-2	949+96.58	-97.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	40
G41-2	950+06.58	-97.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	41
G42-2	950+16.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	42
G43-2	950+31.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	43
G44-2	950+46.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	44
G45-2	950+61.58	-97.38	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	45
G46-2	950+76.01	-97.38	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	46
G47-2	950+91.01	-97.38	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	47
G48-2	951+06.01	-97.38	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	48
G49-2	951+20.99	-98.09	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	49
G50-2	951+31.60	-98.60	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	50
G51-2	951+46.58	-99.31	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	51
G52-2	951+61.56	-100.03	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	52
G53-2	951+76.55	-100.74	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	53
G54-2	951+91.53	-101.45	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	54
G55-2	952+06.51	-102.17	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	55
G56-2	952+21.50	-102.88	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	56
G57-2	952+36.48	-103.59	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	57
G58-2	952+51.46	-104.31	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	58
G59-2	952+66.44	-105.02	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	59
G60-2	952+81.43	-105.73	617.49	598.99	18'-6"	3'-0"	600.99	16'-6"	60
G61-2	952+96.41	-106.45	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	61
G62-2	953+11.39	-107.16	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	62
G63-2	953+26.38	-107.87	616.49	597.99	18'-6"	3'-0"	599.99	16'-6"	63
G64-2	953+37.00	-108.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	64
G65-2	953+51.50	-108.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	65
G66-2	953+66.50	-108.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	66
G67-2	953+81.00	-108.38	615.49	596.99	18'-6"	3'-0"	598.99	16'-6"	67

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
01	W21x68	40'-6"	641.49
02	W21x68	40'-6"	641.49
03	W21x68	40'-6"	641.49
04	W21x68	40'-6"	641.49
05	W21x68	40'-6"	641.49
06	W21x68	40'-6"	641.49
07	W21x68	40'-6"	641.49
08	W21x68	40'-6"	641.49
09	W21x68	40'-6"	641.49
10	W21x68	41'-6"	641.49
11	W21x68	41'-6"	641.49
12	W21x68	41'-6"	641.49
13	W21x68	41'-6"	641.49
14	W21x68	41'-6"	641.49
15	W21x68	41'-6"	641.49
16	W21x68	41'-6"	641.49
17	W21x68	41'-6"	641.49
18	W21x68	41'-6"	641.49
19	W21x68	41'-6"	641.49
20	W21x68	41'-6"	641.49
21	W21x68	41'-6"	641.49
22	W21x68	41'-6"	641.49
23	W21x68	41'-6"	641.49
24	W21x68	41'-6"	641.49
25	W21x68	41'-6"	641.49
26	W21x68	41'-6"	641.49
27	W21x68	41'-6"	641.49
28	W21x68	41'-6"	641.49
29	W21x68	41'-6"	641.49
30	W21x68	41'-6"	641.49
31	W21x68	41'-6"	641.49
32	W21x68	41'-6"	641.49
33	W21x68	41'-6"	641.49
34	W21x68	42'-6"	642.49
35	W21x68	42'-6"	642.49
36	W21x68	42'-6"	642.49
37	W21x68	43'-6"	642.49
38	W21x68	43'-6"	642.49
39	W21x68	43'-6"	642.49
40	W21x68	43'-6"	642.49
41	W21x68	43'-6"	642.49
42	W21x68	42'-6"	642.49
43	W21x68	42'-6"	642.49
44	W21x68	42'-6"	642.49
45	W21x68	42'-6"	642.49
46	W21x68	41'-6"	642.49
47	W21x68	41'-6"	642.49
48	W21x68	41'-6"	642.49
49	W21x68	41'-6"	642.49
50	W21x68	41'-6"	642.49
51	W21x68	41'-6"	642.49
52	W21x68	41'-6"	642.49
53	W21x68	41'-6"	642.49
54	W21x68	41'-6"	642.49
55	W21x68	41'-6"	642.49
56	W21x68	41'-6"	642.49
57	W21x68	41'-6"	642.49
58	W21x68	41'-6"	642.49
59	W21x68	41'-6"	642.49
60	W21x68	41'-6"	642.49
61	W21x68	42'-6"	642.49
62	W21x68	42'-6"	642.49
63	W21x68	42'-6"	642.49
64	W21x68	43'-6"	642.49
65	W21x68	43'-6"	642.49
66	W21x68	43'-6"	642.49
67	W21x68	43'-6"	642.49

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	21,865

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
POST SCHEDULE

NWE-14
DRAWING NO.
1125 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-3	9'-0"	14'-10"	11"	51
CGCI06-3	6'-0"	14'-10"	11"	27
SP1 CGBI09-3	9'-0"	12'-10⅜"	11"	2
SP2 CGBI09-3	9'-0"	9'-10"	11"	3
SP3 CGCI06-3	6'-0"	13'-8⅞"	11"	1
SP3 CGBI09-3	9'-0"	13'-8⅞"	11"	1
SP4 CGCI06-3	6'-0"	14'-10½"	11"	1
SP4 CGBI09-3	9'-0"	14'-10½"	11"	1
SP5 CGBI09-3	9'-0"	13'-9"	11"	1

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-3	4'-0"	14'-10"	9"	77
CGT06-3	6'-0"	14'-10"	9"	2
CGT07-3	7'-0"	14'-10"	9"	9
CGT08-3	8'-0"	14'-10"	9"	20
CGT09-3	9'-0"	14'-10"	9"	20
* SP1 CGC04-3	4'-0"	12'-10⅜"	9"	5
SP1 CGT06-3	6'-0"	12'-10⅜"	9"	1
SP1 CGT09-3	9'-0"	12'-10⅜"	9"	1
* SP2 CGC04-3	4'-0"	9'-10"	9"	6
SP2 CGT09-3	9'-0"	9'-10"	9"	3
* SP3 CGC04-3	4'-0"	13'-8⅞"	9"	1
SP3 CGT08-3	8'-0"	13'-8⅞"	9"	1
* SP4 CGC04-3	4'-0"	14'-10½"	9"	1
SP4 CGT09-3	9'-0"	14'-10½"	9"	1
* SP5 CGC04-3	4'-0"	13'-9"	9"	3
SP5 CGT07-3	7'-0"	13'-9"	9"	1

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

1

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
℞	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

* CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
* CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

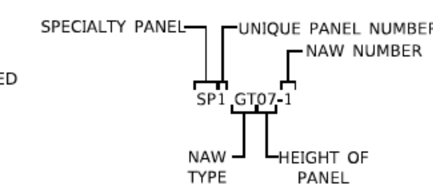
CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

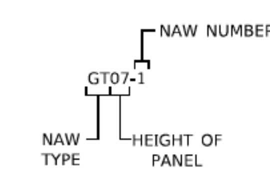
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020	EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY, 2700 OGDEN AVENUE, DOWNERS GROVE, ILLINOIS 60515
CHECKED BY	CDL	DATE	05/26/2020		

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB PANEL SCHEDULE

NWE-15

DRAWING NO. 1126 OF 1762

PLOT TIME = 1:13:44 PM
PLOT DATE = 7/20/2020

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
G01-3	953+37.00	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	01
G02-3	953+50.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	02
G03-3	953+65.05	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	03
G04-3	953+80.05	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	04
G05-3	953+95.05	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	05
G06-3	954+10.05	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	06
G07-3	954+25.05	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	07
G08-3	954+40.05	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	08
G09-3	954+55.05	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	09
G10-3	954+70.05	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	10
G11-3	954+85.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	11
G12-3	955+00.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	12
G13-3	955+15.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	13
G14-3	955+30.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	14
G15-3	955+45.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	15
G16-3	955+60.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	16
G17-3	955+75.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	17
G18-3	955+90.05	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	18
G19-3	956+05.44	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	19
G20-3	956+15.70	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	20
G21-3	956+25.96	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	21
G22-3	956+36.22	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	22
G23-3	956+51.61	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	23
G24-3	956+67.01	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	24
G25-3	956+82.40	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	25
G26-3	956+97.79	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	26
G27-3	957+13.18	-97.38	616.77	598.27	18'-6"	3'-0"	600.27	16'-6"	27
G28-3	957+28.57	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	28
G29-3	957+43.97	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	29
G30-3	957+59.36	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	30
G31-3	957+74.75	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	31
G32-3	957+90.14	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	32
G33-3	958+05.53	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	33
G34-3	958+20.93	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	34
G35-3	958+36.32	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	35
G36-3	958+51.71	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	36
G37-3	958+67.10	-97.38	617.77	599.27	18'-6"	3'-0"	601.27	16'-6"	37
G38-3	958+82.49	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	38
G39-3	958+97.89	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	39
G40-3	959+13.28	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	40
G41-3	959+28.67	-97.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	41
G42-3	959+42.05	-97.38	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	42
G43-3	959+57.43	-98.11	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	43
G44-3	959+72.81	-98.85	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	44
G45-3	959+88.19	-99.58	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	45
G46-3	960+03.57	-100.31	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	46
G47-3	960+18.96	-101.04	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	47
G48-3	960+34.35	-101.78	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	48
G49-3	960+49.74	-102.51	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	49
G50-3	960+65.14	-103.24	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	50
G51-3	960+80.54	-103.98	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	51
G52-3	960+95.94	-104.71	619.77	601.27	18'-6"	3'-0"	603.27	16'-6"	52
G53-3	961+11.35	-105.44	619.77	601.27	18'-6"	3'-0"	603.27	16'-6"	53
G54-3	961+26.75	-106.18	619.77	601.27	18'-6"	3'-0"	603.27	16'-6"	54
G55-3	961+42.17	-106.91	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	55
G56-3	961+57.58	-107.65	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	56
G57-3	961+73.01	-108.38	618.77	600.27	18'-6"	3'-0"	602.27	16'-6"	57
G58-3	961+87.28	-108.38	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	58
G59-3	962+02.71	-108.38	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	59
G60-3	962+17.00	-108.38	617.77	598.77	19'-0"	3'-0"	601.27	16'-6"	60

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
01	W21x68	42'-6"	643.77
02	W21x68	42'-6"	643.77
03	W21x68	43'-6"	643.77
04	W21x68	43'-6"	643.77
05	W21x68	43'-6"	643.77
06	W21x68	41'-6"	643.77
07	W21x68	41'-6"	643.77
08	W21x68	41'-6"	643.77
09	W21x68	41'-6"	643.77
10	W21x68	41'-6"	643.77
11	W21x68	42'-6"	643.77
12	W21x68	42'-6"	643.77
13	W21x68	42'-6"	643.77
14	W21x68	42'-6"	643.77
15	W21x68	42'-6"	643.77
16	W21x68	42'-6"	643.77
17	W21x68	42'-6"	643.77
18	W21x68	42'-6"	643.77
19	W21x68	42'-6"	643.77
20	W21x68	42'-6"	643.77
21	W21x68	42'-6"	643.77
22	W21x68	43'-6"	643.77
23	W21x68	43'-6"	643.77
24	W21x68	43'-6"	643.77
25	W21x68	43'-6"	643.77
26	W21x68	43'-6"	643.77
27	W21x68	43'-6"	643.77
28	W21x68	42'-6"	643.77
29	W21x68	42'-6"	643.77
30	W21x68	42'-6"	643.77
31	W21x68	42'-6"	643.77
32	W21x68	42'-6"	643.77
33	W21x68	42'-6"	643.77
34	W21x68	42'-6"	643.77
35	W21x68	42'-6"	643.77
36	W21x68	42'-6"	643.77
37	W21x68	42'-6"	643.77
38	W21x68	41'-6"	643.77
39	W21x68	43'-6"	645.77
40	W21x68	43'-6"	645.77
41	W21x68	43'-6"	645.77
42	W21x68	44'-6"	645.77
43	W21x68	44'-6"	645.77
44	W21x68	44'-6"	645.77
45	W21x68	44'-6"	645.77
46	W21x68	44'-6"	645.77
47	W21x68	44'-6"	645.77
48	W21x68	44'-6"	645.77
49	W21x68	43'-6"	645.77
50	W21x68	43'-6"	645.77
51	W21x68	43'-6"	645.77
52	W21x68	42'-6"	645.77
53	W21x68	42'-6"	645.77
54	W21x68	42'-6"	645.77
55	W21x68	43'-6"	645.77
56	W21x68	43'-6"	645.77
57	W21x68	43'-6"	645.77
58	W21x68	44'-6"	645.77
59	W21x68	44'-6"	645.77
60	W21x68	44'-6"	645.77

1

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	22,558

1

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
POST SCHEDULE

NWE-16
DRAWING NO.
1127 OF 1762

PLOT TIME = 11:13:53 PM
PLOT DATE = 7/20/2020
PLOT SCALE = 0.1667 ' / in.
FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SG1\30 - C01 - 4296-3\01 - DGN\12 - SHT\02 - Structural\EFK Moen\4296-C01-SHT-GPE-TS17.75NSB_016-EFKMOEN.dgn

PLOT TIME = 1:14:02 PM PLOT DATE = 7/20/2020 PLOT SCALE = 0.1667 ' / in. FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SG\30 - C01 - 4296-3\01 - DGN\12 - SHT\02 - Structural\EFK Moen\4296-C01-SHT-GPE-TS17.75NSB_017-EFKMOEN.dgn

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-4	9'-0"	14'-10"	11"	54
CGCI06-4	6'-0"	14'-10"	11"	10
SP1 CGBI09-4	9'-0"	9'-5⅝"	11"	2
SP2 CGBI09-4	9'-0"	10'-4"	11"	2
SP3 CGBI09-4	9'-0"	14'-10⅜"	11"	1

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-4	4'-0"	14'-10"	9"	99
CGT06-4	6'-0"	14'-10"	9"	1
CGT07-4	7'-0"	14'-10"	9"	1
CGT08-4	8'-0"	14'-10"	9"	37
CGT09-4	9'-0"	14'-10"	9"	15
* SP1 CGC04-4	4'-0"	9'-5⅝"	9"	4
SP1 CGT08-4	8'-0"	9'-5⅝"	9"	1
SP1 CGT09-4	9'-0"	9'-5⅝"	9"	1
* SP2 CGC04-4	4'-0"	10'-4"	9"	4
SP2 CGT09-4	9'-0"	10'-4"	9"	2
* SP3 CGC04-4	4'-0"	14'-10⅜"	9"	2
SP3 CGT09-4	9'-0"	14'-10⅜"	9"	1

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

1

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℄ (BL)	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
PL	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

* CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
* CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

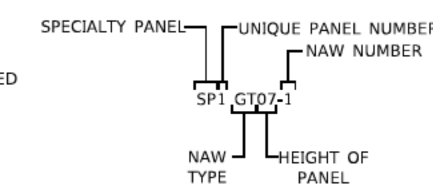
CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

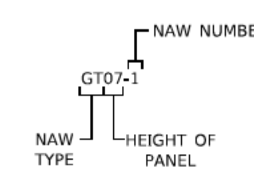
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020	EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065
CHECKED BY	CDL	DATE	05/26/2020	

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB PANEL SCHEDULE

NWE-17

DRAWING NO. 1128 OF 1762

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
G01-4	961+73.00	-97.38	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	01
G02-4	961+88.39	-97.38	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	02
G03-4	962+03.78	-97.38	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	03
G04-4	962+19.18	-97.38	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	04
G05-4	962+34.57	-97.38	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	05
G06-4	962+49.96	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	06
G07-4	962+65.35	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	07
G08-4	962+80.74	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	08
G09-4	962+96.14	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	09
G10-4	963+11.53	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	10
G11-4	963+26.92	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	11
G12-4	963+42.31	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	12
G13-4	963+57.70	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	13
G14-4	963+73.10	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	14
G15-4	963+88.49	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	15
G16-4	964+03.88	-97.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	16
G17-4	964+19.27	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	17
G18-4	964+34.66	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	18
G19-4	964+50.06	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	19
G20-4	964+65.45	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	20
G21-4	964+80.84	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	21
G22-4	964+96.23	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	22
G23-4	965+11.62	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	23
G24-4	965+27.02	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	24
G25-4	965+42.41	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	25
G26-4	965+57.80	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	26
G27-4	965+73.19	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	27
G28-4	965+88.58	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	28
G29-4	966+03.98	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	29
G30-4	966+19.37	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	30
G31-4	966+34.76	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	31
G32-4	966+50.15	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	32
G33-4	966+65.54	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	33
G34-4	966+80.94	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	34
G35-4	966+96.33	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	35
G36-4	967+11.72	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	36
G37-4	967+27.11	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	37
G38-4	967+42.50	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	38
G39-4	967+57.90	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	39
G40-4	967+73.29	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	40
G41-4	967+88.68	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	41
G42-4	968+04.07	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	42
G43-4	968+19.46	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	43
G44-4	968+34.86	-97.38	621.81	603.31	18'-6"	3'-0"	605.31	16'-6"	44
G45-4	968+44.76	-97.84	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	45
G46-4	968+60.13	-98.58	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	46
G47-4	968+75.51	-99.31	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	47
G48-4	968+90.90	-100.04	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	48
G49-4	969+06.28	-100.77	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	49
G50-4	969+21.67	-101.51	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	50
G51-4	969+37.06	-102.24	619.81	601.31	18'-6"	3'-0"	603.31	16'-6"	51
G52-4	969+52.46	-102.97	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	52
G53-4	969+67.86	-103.71	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	53
G54-4	969+83.26	-104.44	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	54
G55-4	969+98.66	-105.17	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	55
G56-4	970+14.07	-105.91	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	56
G57-4	970+24.01	-106.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	57
G58-4	970+34.79	-106.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	58
G59-4	970+50.22	-106.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	59
G60-4	970+61.00	-106.38	620.81	602.31	18'-6"	3'-0"	604.31	16'-6"	60

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
01	W21x68	43'-6"	646.81
02	W21x68	43'-6"	646.81
03	W21x68	43'-6"	646.81
04	W21x68	43'-6"	646.81
05	W21x68	43'-6"	646.81
06	W21x68	42'-6"	646.81
07	W21x68	42'-6"	646.81
08	W21x68	42'-6"	646.81
09	W21x68	42'-6"	646.81
10	W21x68	42'-6"	646.81
11	W21x68	42'-6"	646.81
12	W21x68	42'-6"	646.81
13	W21x68	42'-6"	646.81
14	W21x68	42'-6"	646.81
15	W21x68	42'-6"	646.81
16	W21x68	42'-6"	646.81
17	W21x68	41'-6"	646.81
18	W21x68	41'-6"	646.81
19	W21x68	41'-6"	646.81
20	W21x68	41'-6"	646.81
21	W21x68	41'-6"	646.81
22	W21x68	41'-6"	646.81 (1)
23	W21x68	41'-6"	646.81
24	W21x68	41'-6"	646.81
25	W21x68	41'-6"	646.81
26	W21x68	41'-6"	646.81
27	W21x68	41'-6"	646.81
28	W21x68	41'-6"	646.81
29	W21x68	41'-6"	646.81
30	W21x68	41'-6"	646.81
31	W21x68	41'-6"	646.81
32	W21x68	41'-6"	646.81
33	W21x68	41'-6"	646.81
34	W21x68	41'-6"	646.81
35	W21x68	41'-6"	646.81
36	W21x68	41'-6"	646.81
37	W21x68	41'-6"	646.81
38	W21x68	41'-6"	646.81
39	W21x68	41'-6"	646.81
40	W21x68	41'-6"	646.81
41	W21x68	41'-6"	646.81
42	W21x68	41'-6"	646.81
43	W21x68	41'-6"	646.81
44	W21x68	41'-6"	646.81
45	W21x68	43'-6"	646.81
46	W21x68	43'-6"	646.81
47	W21x68	43'-6"	646.81
48	W21x68	43'-6"	646.81
49	W21x68	43'-6"	646.81
50	W21x68	43'-6"	646.81
51	W21x68	43'-6"	646.81
52	W21x68	42'-6"	646.81
53	W21x68	42'-6"	646.81
54	W21x68	42'-6"	646.81
55	W21x68	42'-6"	646.81
56	W21x68	42'-6"	646.81
57	W21x68	42'-6"	646.81
58	W21x68	42'-6"	646.81
59	W21x68	42'-6"	646.81
60	W21x68	42'-6"	646.81

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	21,966

* POST IS LOCATED AT 90° TURN AND REQUIRES ADDITIONAL ANGLES WELDED TO FLANGE.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
POST SCHEDULE

NWE-18

DRAWING NO. 1129 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI09-5	9'-0"	14'-10"	11"	33
CGCI06-5	6'-0"	14'-10"	11"	4
SP1 CGBI09-5	9'-0"	13'-6¾"	11"	2
SP2 CGBI09-5	9'-0"	9'-10"	11"	4
SP3 CGBI09-5	9'-0"	13'-3⅞"	11"	1
SP4 CGCI06-5	6'-0"	9'-1"	11"	1
SP4 CGBI09-5	9'-0"	9'-1"	11"	2
SP5 CGBI09-5	9'-0"	14'-4"	11"	2

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
* CGC04-5	4'-0"	14'-10"	9"	91
CGT06-5	6'-0"	14'-10"	9"	14
CGT07-5	7'-0"	14'-10"	9"	15
CGT09-5	9'-0"	14'-10"	9"	4
* SP1 CGC04-5	4'-0"	13'-6¾"	9"	6
SP1 CGT06-5	6'-0"	13'-6¾"	9"	2
* SP2 CGC04-5	4'-0"	9'-10"	9"	12
SP2 CGT06-5	6'-0"	9'-10"	9"	1
SP2 CGT07-5	7'-0"	9'-10"	9"	3
* SP3 CGC04-5	4'-0"	13'-3⅞"	9"	3
SP3 CGT06-5	6'-0"	13'-3⅞"	9"	1
* SP4 CGC04-5	4'-0"	9'-1"	9"	4
SP4 CGT06-5	6'-0"	9'-1"	9"	1
SP4 CGT09-5	9'-0"	9'-1"	9"	1
* SP5 CGC04-5	4'-0"	14'-4"	9"	6
SP5 CGT06-5	6'-0"	14'-4"	9"	2

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

1

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
℞	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

- * CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
- * CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
- ** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
- ** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
- ** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
- ** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
- SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

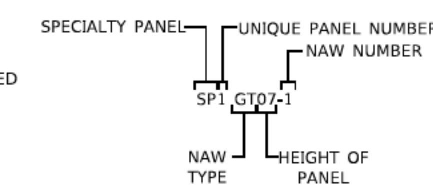
CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

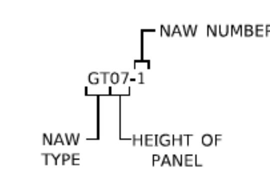
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB PANEL SCHEDULE

NWE-19

DRAWING NO. 1130 OF 1762

DRILLED SHAFT SCHEDULE

LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
G01-5	970+24.00	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	01
G02-5	970+38.09	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	02
G03-5	970+53.48	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	03
G04-5	970+68.87	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	04
G05-5	970+84.27	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	05
G06-5	970+99.66	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	06
G07-5	971+15.05	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	07
G08-5	971+30.44	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	08
G09-5	971+45.83	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	09
G10-5	971+61.23	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	10
G11-5	971+76.62	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	11
G12-5	971+92.01	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	12
G13-5	972+07.40	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	13
G14-5	972+22.79	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	14
G15-5	972+33.05	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	15
G16-5	972+43.32	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	16
G17-5	972+53.58	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	17
G18-5	972+68.97	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	18
G19-5	972+84.36	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	19
G20-5	972+99.64	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	20
G21-5	973+14.64	-97.38	619.51	600.51	19'-0"	3'-0"	603.01	16'-6"	21
G22-5	973+28.37	-97.38	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	22
G23-5	973+41.88	-98.02	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	23
G24-5	973+51.87	-98.50	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	24
G25-5	973+66.85	-99.21	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	25
G26-5	973+81.83	-99.93	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	26
G27-5	973+96.82	-100.64	620.51	602.01	18'-6"	3'-0"	604.01	16'-6"	27
G28-5	974+11.80	-101.35	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	28
G29-5	974+26.78	-102.07	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	29
G30-5	974+41.76	-102.78	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	30
G31-5	974+56.75	-103.49	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	31
G32-5	974+66.00	-103.93	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	32
G33-5	974+80.99	-104.65	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	33
G34-5	974+95.97	-105.36	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	34
G35-5	975+10.95	-106.08	620.51	601.51	19'-0"	3'-0"	604.01	16'-6"	35
G36-5	975+25.94	-106.79	621.51	602.51	19'-0"	3'-0"	605.01	16'-6"	36
G37-5	975+40.92	-107.50	621.51	602.51	19'-0"	3'-0"	605.01	16'-6"	37
G38-5	975+55.90	-108.22	621.51	602.51	19'-0"	3'-0"	605.01	16'-6"	38
G39-5	975+70.89	-108.93	621.51	602.51	19'-0"	3'-0"	605.01	16'-6"	39
G40-5	975+85.87	-109.64	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	40
G41-5	976+00.85	-110.36	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	41
G42-5	976+10.12	-110.80	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	42
G43-5	976+24.61	-110.80	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	43
G44-5	976+39.61	-110.80	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	44
G45-5	976+54.11	-110.80	622.51	604.01	18'-6"	3'-0"	606.01	16'-6"	45

STEEL POST SCHEDULE

POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
01	W21x68	43'-6"	647.51
02	W21x68	43'-6"	647.51
03	W21x68	43'-6"	647.51
04	W21x68	43'-6"	647.51
05	W21x68	43'-6"	647.51
06	W21x68	43'-6"	647.51
07	W21x68	43'-6"	647.51
08	W21x68	43'-6"	647.51
09	W21x68	44'-6"	647.51
10	W21x68	44'-6"	647.51
11	W21x68	44'-6"	647.51
12	W21x68	44'-6"	647.51
13	W21x68	44'-6"	647.51
14	W21x68	44'-6"	647.51
15	W21x68	44'-6"	647.51
16	W21x68	44'-6"	647.51
17	W21x68	44'-6"	647.51
18	W21x68	44'-6"	647.51
19	W21x68	44'-6"	647.51
20	W21x68	44'-6"	647.51
21	W21x68	44'-6"	647.51
22	W21x68	43'-6"	647.51
23	W21x68	43'-6"	647.51
24	W21x68	43'-6"	647.51
25	W21x68	43'-6"	647.51
26	W21x68	43'-6"	647.51
27	W21x68	43'-6"	647.51
28	W21x68	44'-6"	648.51
29	W21x68	44'-6"	648.51
30	W21x68	44'-6"	648.51
31	W21x68	44'-6"	648.51
32	W21x68	44'-6"	648.51
33	W21x68	44'-6"	648.51
34	W21x68	44'-6"	648.51
35	W21x68	45'-6"	649.51
36	W21x68	44'-6"	649.51
37	W21x68	44'-6"	649.51
38	W21x68	44'-6"	649.51
39	W21x68	44'-6"	649.51
40	W21x68	43'-6"	649.51
41	W21x68	43'-6"	649.51
42	W21x68	43'-6"	649.51
43	W21x68	43'-6"	649.51
44	W21x68	43'-6"	649.51
45	W21x68	43'-6"	649.51

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	16,955

DRAWN BY CMC DATE 05/26/2020
CHECKED BY CDL DATE 05/26/2020

EFK•Moen Civil Engineering Design
311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.75N,SB
POST SCHEDULE

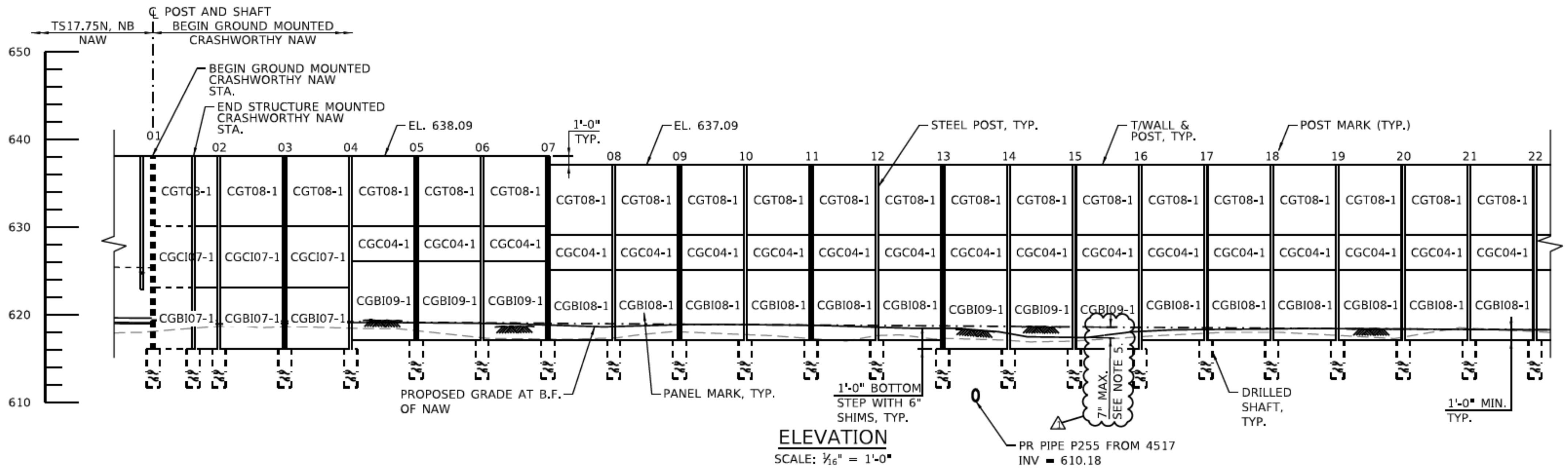
NWE-20
DRAWING NO.

BENCHMARK: BM 29-CHISELED "□" IN BACK OF CURB 100' N OF QE124 AT N END OF GORE FROM NB RAMP FROM 95TH ST. WHERE CURB & GUTTER ENDS. STA. 936+55.95, OFFSET 129.23' RT, ELEV. = 624.30

EXISTING STRUCTURE: NONE.

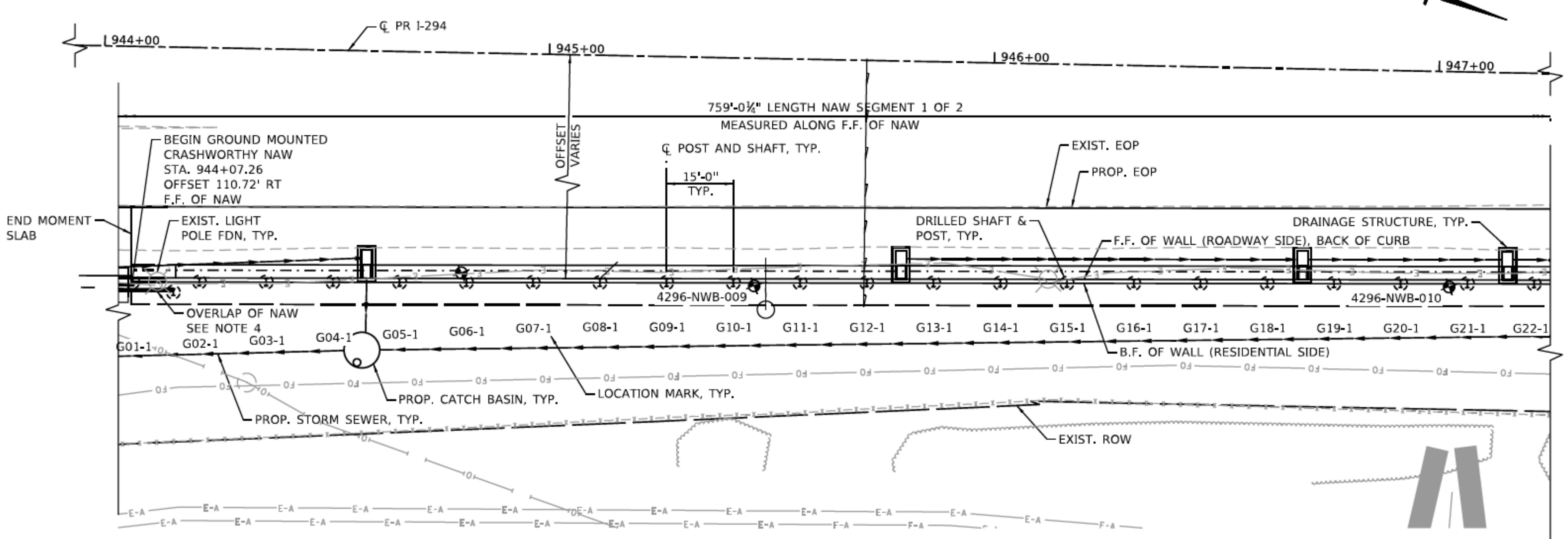
PROPOSED STRUCTURE: NOISE ABATEMENT WALL CONSISTS OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS.

TRAFFIC ON NB I-294 WILL BE MAINTAINED DURING CONSTRUCTION.



ELEVATION

SCALE: 1/16" = 1'-0"



PLAN

SCALE: 1/16" = 1'-0"

HIGHWAY CLASSIFICATION

NB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 68,720 (2013); 110,100 (2040)
ADTT: 11,683 (2013); 18,717 (2040)
DHV: 6,110 (2013); 8,700 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.074
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.118
SOIL SITE CLASS = C

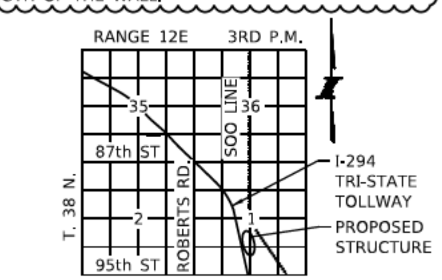
INDEX OF SHEETS

LEGEND

—CA-A—	CABLE AERIAL
—E-A—	ELECTRIC AERIAL
—FO—	FIBER OPTIC
—G—	GAS
—T—	TELEPHONE
—→—	STORM SEWER
—X—X—X—X	FENCE
—W—	WATERMAIN
—●	LIGHT POLE
⊕	SOIL BORING
▬▬	EXISTING ROW
▬ - -	PROPOSED ROW

NOTES:

1. FOR WALL BILL OF MATERIAL, REFER TO SHEET NWF-6.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF NAW UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH, AS SHOWN IN THE ELEVATION VIEW.
4. FOR OVERLAP, SEE NAW 17.75N, NB AND ISTHA STANDARD G16-00 SHEET 3 OF 3.
5. THE DIMENSION SHOWN IS THE MAXIMUM GRADE DIFFERENCE BETWEEN FRONT FACE OF THE NAW AND BACK FACE OF THE NAW, AT ANY POINT, ALONG THE LENGTH OF THE WALL.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 944+07.26 TO 954+84.57
STRUCTURE NO. TS17.80N, NB(R)

DRAWN BY MAF	DATE 5/26/2020		
CHECKED BY KN	DATE 5/26/2020		

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS17.80N, NB
GENERAL PLAN & ELEVATION 1

SHEET NO. NWF - 1 OF 9

DRAWING NO. 1147 OF 1762

PLOT DATE = 7/16/2020 PLOT TIME = 5:48:29 PM PLOT SCALE = 32.0000 ' / in.

GENERAL

1. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PLAN DIMENSIONS ARE HORIZONTAL EXCEPT AS NOTED OTHERWISE.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.
4. FOR EXISTING UTILITIES AND CONFLICT, SEE "EXISTING UTILITY PLAN" SHEETS.

CONSTRUCTION

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CALL J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED IN ONLINE AT THE TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE.
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR SHALL USE CARE WHEN EXCAVATING AROUND EXISTING FOUNDATIONS. ANY DAMAGE TO THE EXISTING STRUCTURE AND/OR SUPPORTING FOUNDATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

IDOT BRIDGE MANUAL, JANUARY 2012 AND ALL IDOT BRIDGE DESIGNERS MEMORANDUMS

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

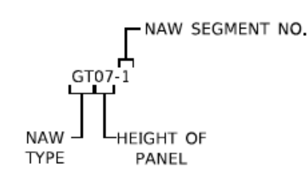
LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BENCHMARK
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
CONST	CONSTRUCTION
CTS	CENTERS
EA	EACH
E.E.	EACH END
EF	EACH FACE
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
FDN	FOUNDATION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
LT	LEFT
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
NB	NORTHBOUND
N.A.	NOT APPLICABLE
O.C.	ON CENTER
ℙ	PLATE
PGL	PROFILE GRADE LINE
PJF	PREFORMED JOINT FILLER
PJS	PREFORMED JOINT SEAL
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
ROW	RIGHT OF WAY
SHLDR.	SHOULDER
S.	SOUTH
SB	SOUTHBOUND
S.P.	SPECIAL PROVISION
SPA	SPACING
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TEMP	TEMPORARY
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

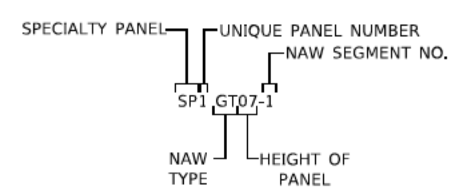
NAW TYPE

** CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
** CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
*** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
*** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
*** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
SP = SPECIALTY PANEL

** THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.
*** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGC04-1 (1)	4'-0"	14'-10"	9"	47
CGT08-1	8'-0"	14'-10"	9"	50
CGC04-2 (1)	4'-0"	14'-10"	9"	22
CGT08-2	8'-0"	14'-10"	9"	22
SP1 CGC04-1 (1)	4'-0"	8'-10"	9"	1
SP1 CGT08-1	8'-0"	8'-10"	9"	1
SP1 CGC04-2 (1)	4'-0"	13'-2"	9"	1
SP1 CGT08-2	8'-0"	13'-2"	9"	1
SP2 CGC04-2 (1)	4'-0"	11'-2"	9"	2
SP2 CGT08-2	8'-0"	11'-2"	9"	2

(1) CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE JUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
CGBI07-1	7'-0"	14'-10"	11"	3
CGBI08-1	8'-0"	14'-10"	11"	39
CGBI09-1	9'-0"	14'-10"	11"	8
CGCI07-2	7'-0"	14'-10"	11"	3
CGBI08-2	8'-0"	14'-10"	11"	16
CGBI09-2	9'-0"	14'-10"	11"	6
SP1 CGBI08-1	8'-0"	8'-10"	11"	1
SP1 CGBI09-2	9'-0"	13'-2"	11"	1
SP2 CGBI08-2	8'-0"	11'-2"	11"	2

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G16.

PLOT DATE = 7/16/2020 PLOT TIME = 5:49:41 PM PLOT SCALE = 8.4667 ' / in.

DRAWN BY MAF	DATE 5/26/2020	CHECKED BY KN	DATE 5/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS17.80N, NB
PANEL SCHEDULE & NOTES

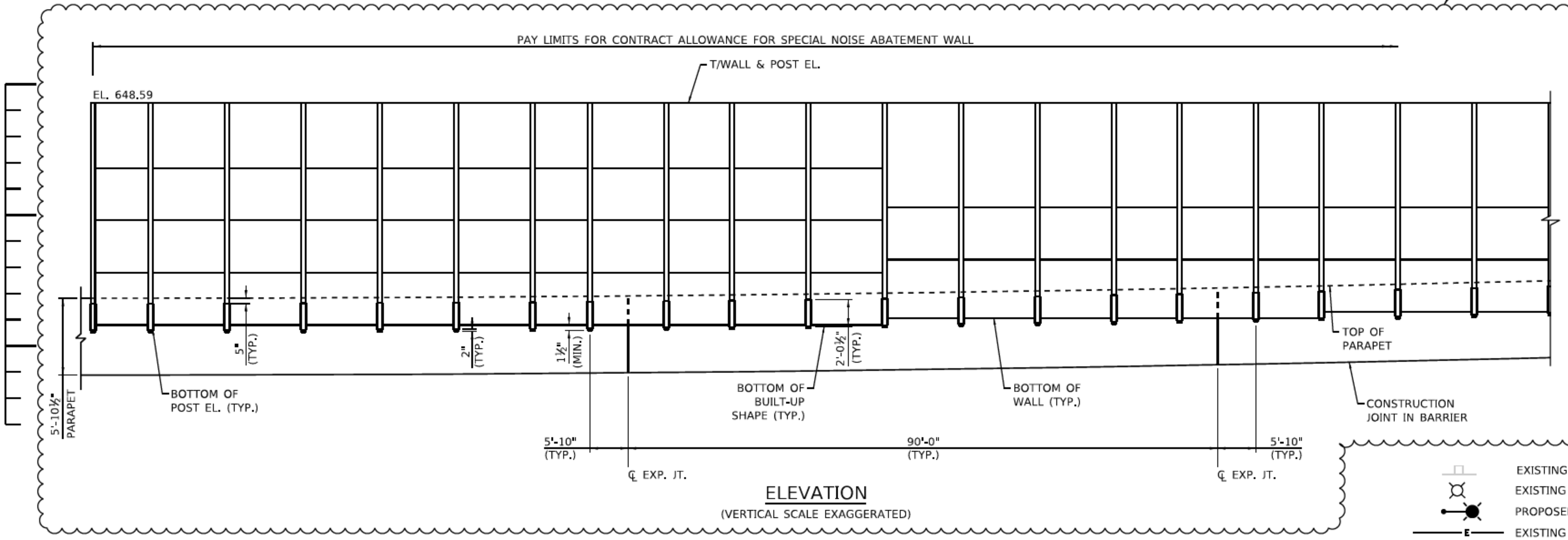
SHEET NO. NWF - 4 OF 9
DRAWING NO. 1150 OF 1762

BENCHMARK: BM27: SET MAG NAIL IN GUARDRAIL POST OF SBL APPROX 600' SE OF MILE MARKER 19 (85TH PL), NEXT TO SIGN FOR HICKORY HILLS/OAK LAWN 2ND RT

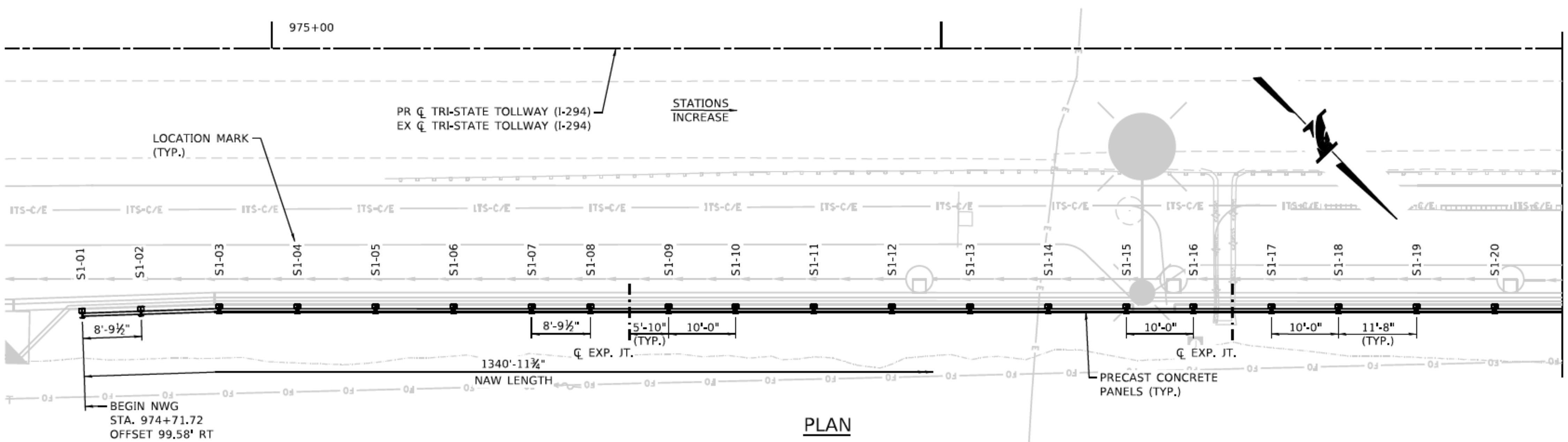
EXISTING STRUCTURE: NONE

SALVAGE: NONE

PROPOSED STRUCTURE: STRUCTURE MOUNTED NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY STRUCTURAL MEMBER ATTACHED TO BACK OF PARAPET ALONG EASTERN SHOULDER OF NB I-294 IS 1340'-11¾" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION
(VERTICAL SCALE EXAGGERATED)



PLAN

HIGHWAY CLASSIFICATION

NB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 68,720 (2013); 110,100 (2040)
AADT: 11,683 (2013); 18,717 (2040)
DHV: 6,110 (2013); 8,700 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

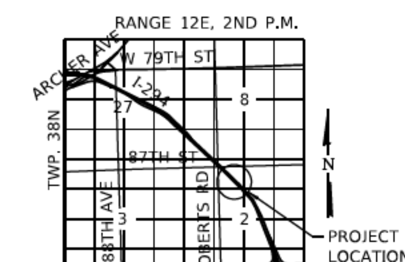
INDEX OF SHEETS

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWG-08.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

EXISTING TRAFFIC SIGN
EXISTING LIGHT POLE
PROPOSED LUMINAIRE
EXISTING ELECTRIC LINE
EXISTING STORM SEWER
PROPOSED STORM SEWER
PROPOSED CATCH BASIN
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
ITS COMMUNICATIONS CONDUIT
ITS ELECTRICAL CONDUIT
ITS LINE
EXISTING NOISEWALL
PROPOSED NOISEWALL
EXISTING GUARDRAIL
EXISTING VEGETATION
EDGE OF WATER



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 974+71.72 TO 988+07.97
NOISE ABATEMENT WALL TS18.40N,NB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
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311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

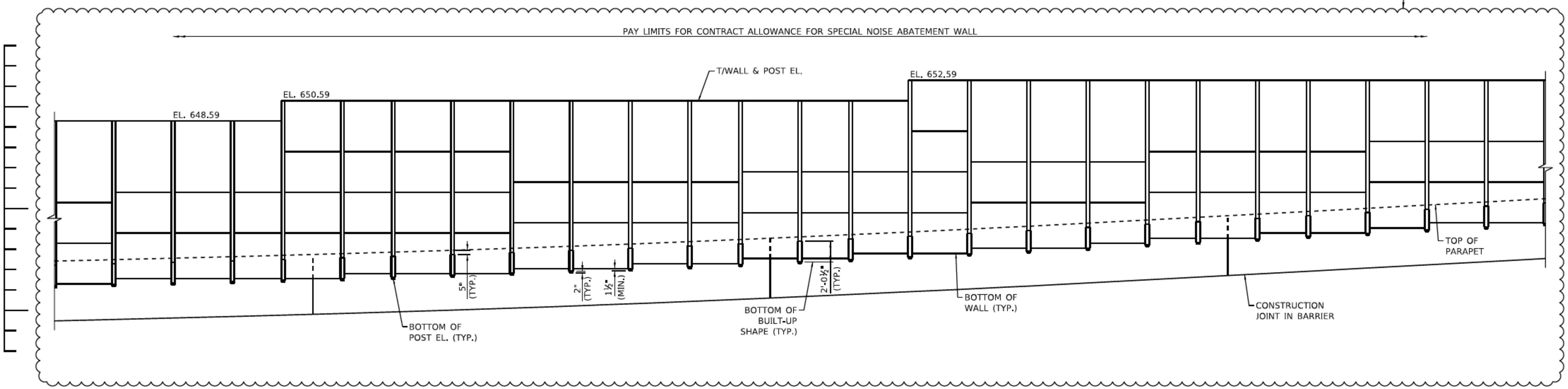
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

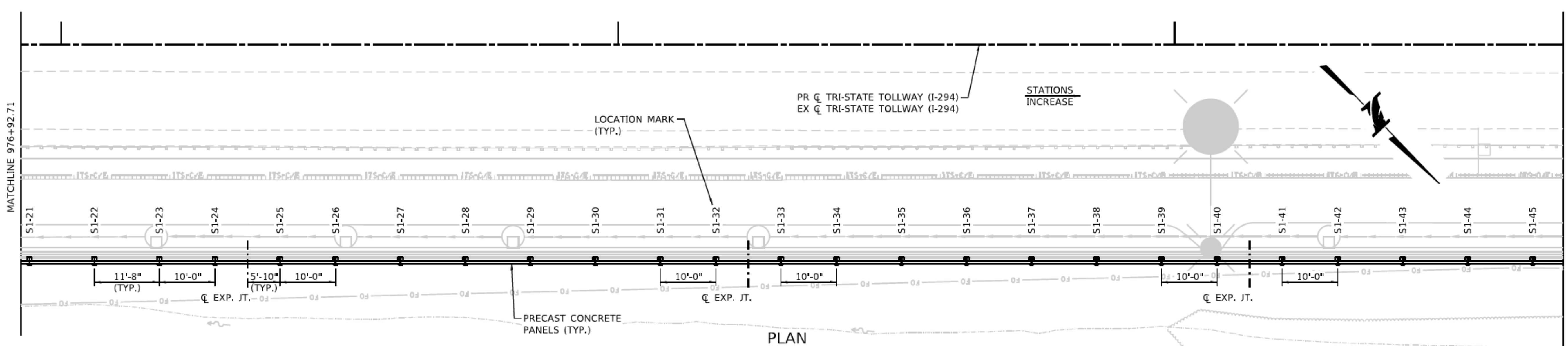
NOISE ABATEMENT WALL TS18.40N,NB
GENERAL PLAN & ELEVATION

NWG-01
DRAWING NO.
1156 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

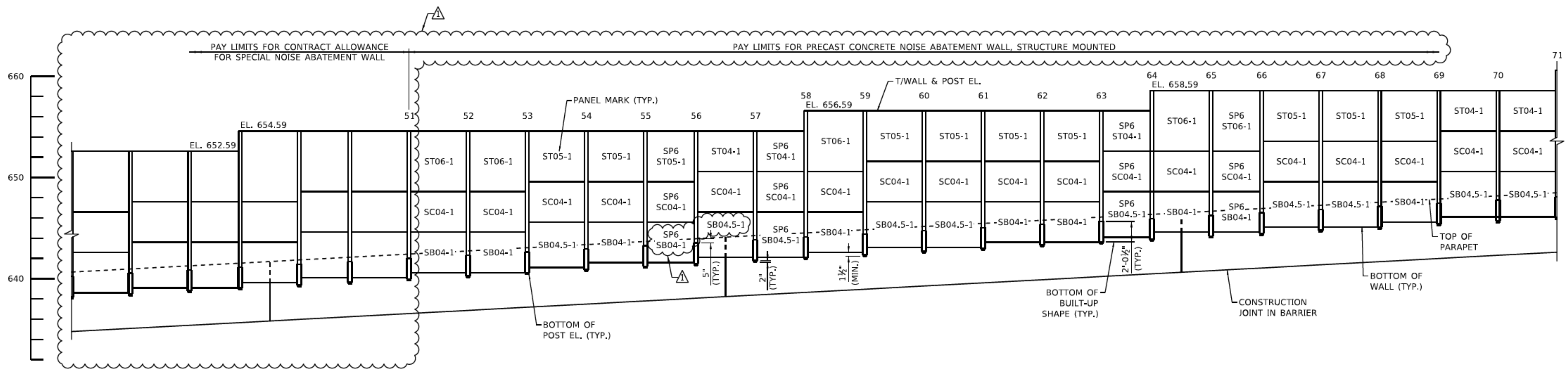
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,NB
GENERAL PLAN & ELEVATION

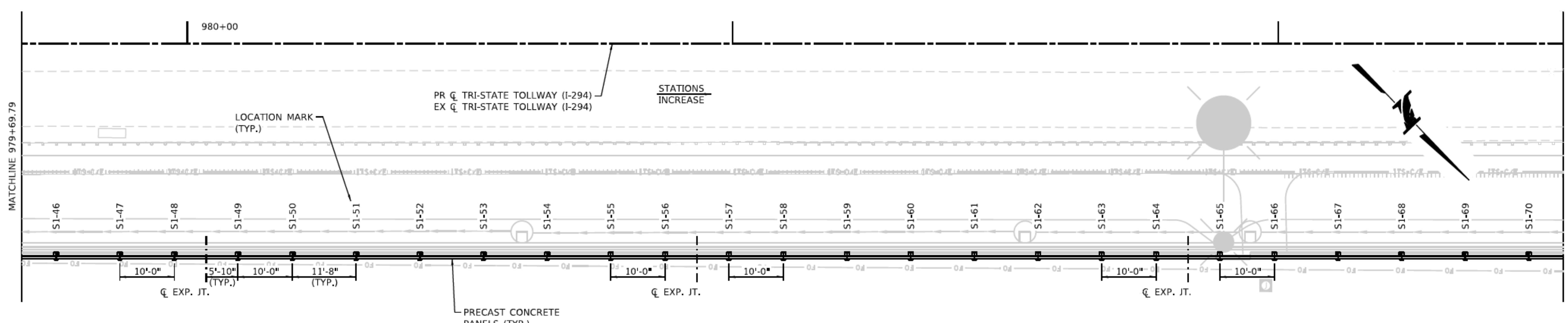
NWG-02

DRAWING NO.
1157 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

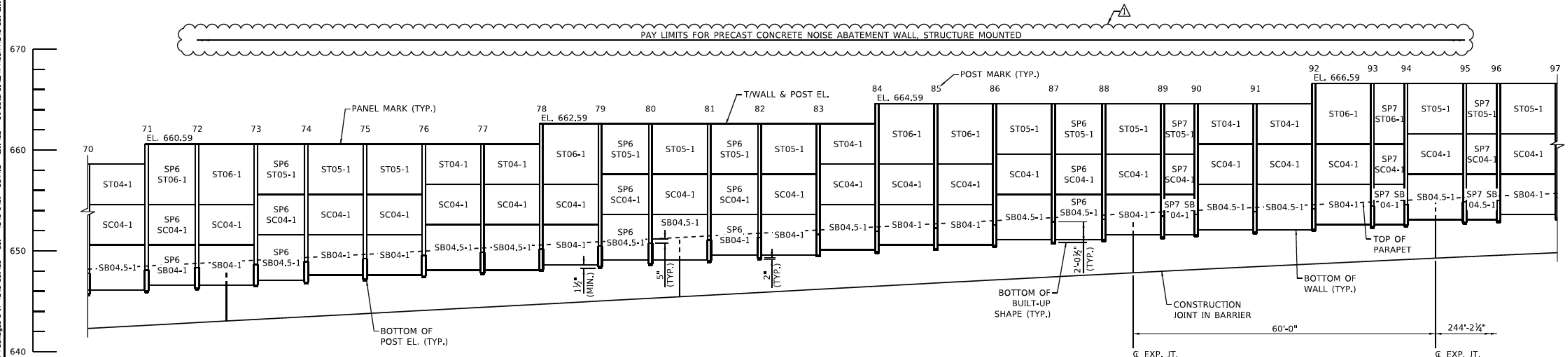
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

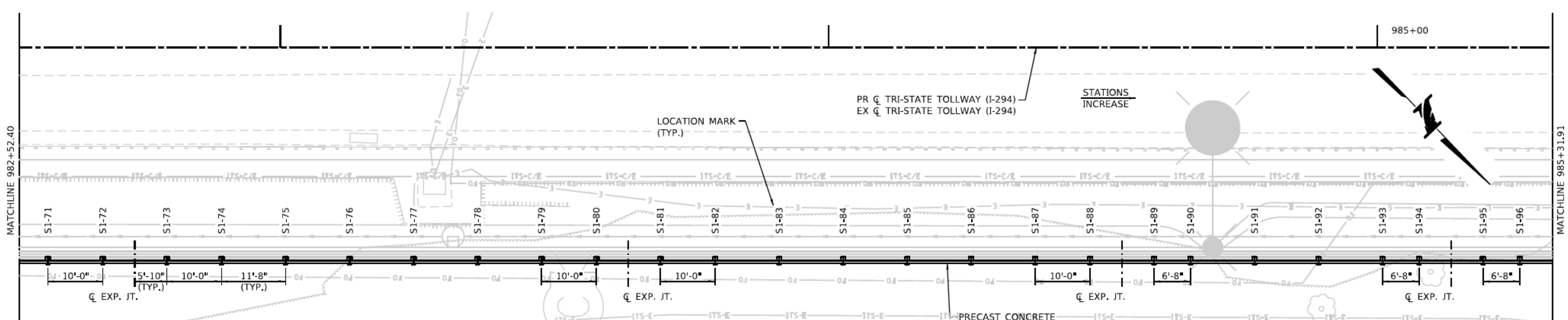
NOISE ABATEMENT WALL TS18.40N,NB
GENERAL PLAN & ELEVATION

NWG-03
DRAWING NO.
1158 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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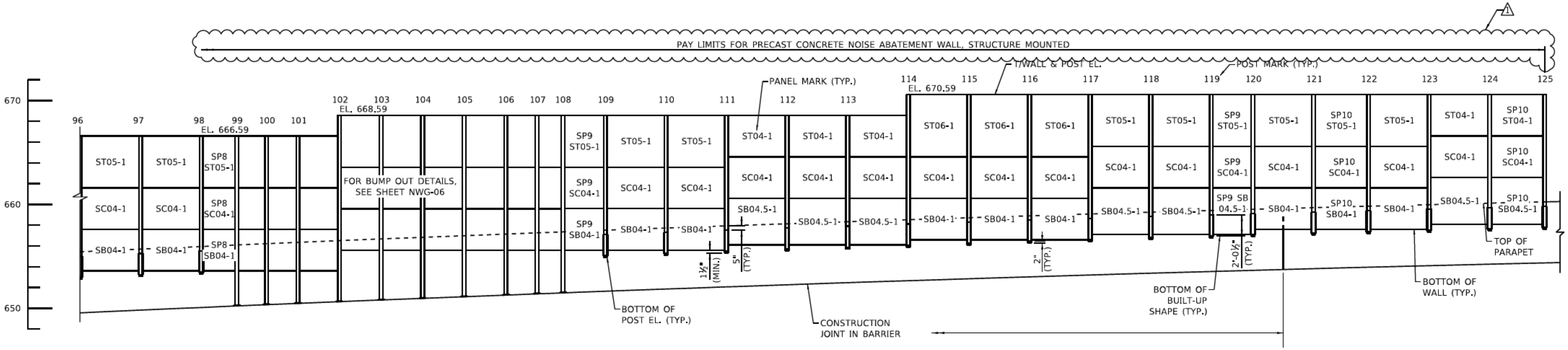
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

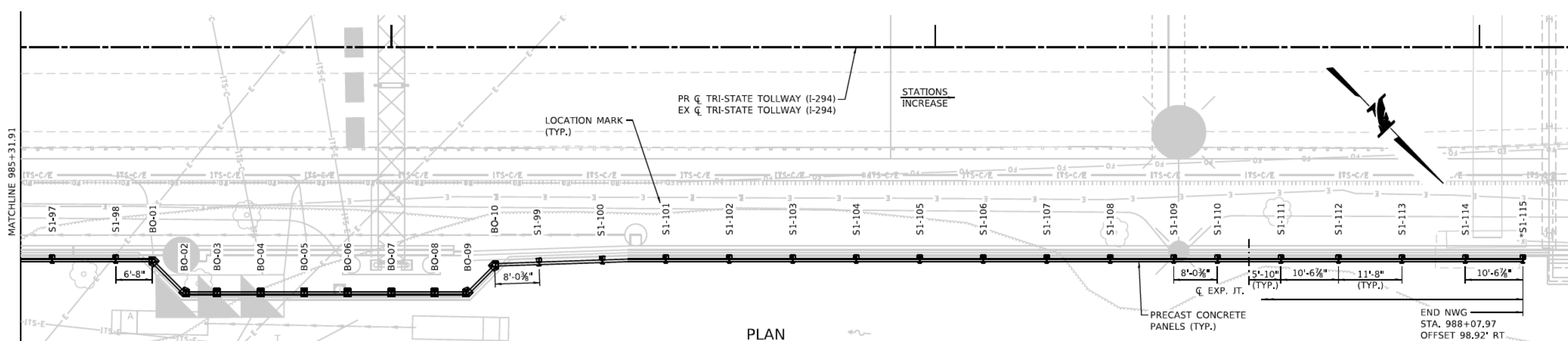
NOISE ABATEMENT WALL TS18.40N,NB
GENERAL PLAN & ELEVATION

NWG-04
DRAWING NO. 1159 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

* FOR DETAILS OF END POST, SEE PLAN AT TRANSITION TO CONCRETE NAW ON SHEET NWN-01 OF TS18.60N,SB & TS18.70N,NB SHEETS.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,NB
GENERAL PLAN & ELEVATION

NWG-05
DRAWING NO.
1160 OF 1762

STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
***SB04-1	4'-0"	11'-6"	5½"	26
***SB04.5-1	4'-6"	11'-6"	5½"	22
SC04-1	4'-0"	11'-6"	5½"	48
ST04-1	4'-0"	11'-6"	5½"	12
ST05-1	5'-0"	11'-6"	5½"	24
ST06-1	6'-0"	11'-6"	5½"	12
***SP6 SB04-1	4'-0"	9'-10"	5½"	4
***SP6 SB04.5-1	4'-6"	9'-10"	5½"	5
SP6 SC04-1	4'-0"	9'-10"	5½"	9
SP6 ST04-1	4'-0"	9'-10"	5½"	2
SP6 ST05-1	5'-0"	9'-10"	5½"	5
SP6 ST06-1	6'-0"	9'-10"	5½"	2
***SP7 SB04-1	4'-0"	6'-6"	5½"	2
***SP7 SB04.5-1	4'-6"	6'-6"	5½"	1
SP7 SC04-1	4'-0"	6'-6"	5½"	3
SP7 ST05-1	5'-0"	6'-6"	5½"	2
SP7 ST06-1	6'-0"	6'-6"	5½"	1
***SP8 SB04-1	4'-0"	6'-7"	5½"	1
SP8 SC04-1	4'-0"	6'-7"	5½"	1
SP8 ST05-1	5'-0"	6'-7"	5½"	1
***SP9 SB04-1	4'-0"	7'-11⅛"	5½"	1
***SP9 SB04.5-1	4'-6"	7'-10⅛"	5½"	1
SP9 SC04-1	4'-0"	7'-11⅛"	5½"	2
SP9 ST05-1	5'-0"	7'-11⅛"	5½"	2
***SP10 SB04-1	4'-0"	10'-4⅞"	5½"	1
***SP10 SB04.5-1	4'-6"	10'-4⅞"	5½"	1
SP10 SC04-1	4'-0"	10'-4⅞"	5½"	2
SP10 ST04-1	4'-0"	10'-4⅞"	5½"	1
SP10 ST05-1	5'-0"	10'-4⅞"	5½"	1

⚠1

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G13 OR G14.

***CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G13 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION. ⚠1

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020. ⚠1

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020. ⚠1

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

BUMP-OUT STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOC04-1	4'-0"	7'-5"	5½"	2
SP1 BOT05-1	5'-0"	7'-5"	5½"	1
SP2 BOC04-1	4'-0"	6'-4"	5½"	2
SP2 BOT05-1	5'-0"	6'-4"	5½"	1
SP3 BOC04-1	4'-0"	5'-7½"	5½"	4
SP3 BOT05-1	5'-0"	5'-7½"	5½"	2
SP4 BOC04-1	4'-0"	7'-10"	5½"	10
SP4 BOT05-1	5'-0"	7'-10"	5½"	5

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G-13 AND G-14.

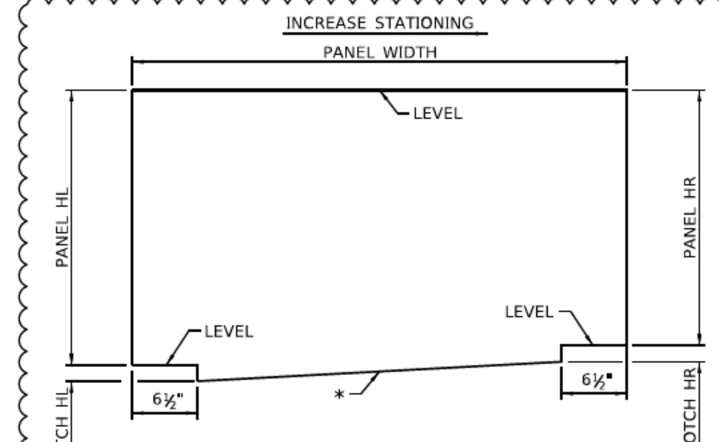
* TO ACCOMMODATE VARYING SLAB GRADES, PANEL HEIGHTS WILL VARY TO FOLLOW SLOPE ON BUMP-OUT SLAB AND MAINTAIN A 1" GAP BETWEEN BOTTOM OF PANEL AND TOP OF SLAB.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

BUMP-OUT STRUCTURE MOUNTED VARIABLE HEIGHT PANEL SCHEDULE

PANEL MARK	PANEL HL	NOTCH HL	PANEL HR	NOTCH HR	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOBVA-1	3'-2⅜"	1"	3'-1½"	1"	7'-6⅛"	5½"	1
SP3 BOBVB-1	3'-1½"	1⅛"	3'-0"	⅞"	5'-7½"	5½"	1
SP4 BOBVC-1	3'-0"	1⅛"	2'-10"	⅞"	7'-10"	5½"	1
SP4 BOBVD-1	4'-10"	1⅛"	4'-8⅛"	⅞"	7'-10"	5½"	1
SP4 BOBVE-1	4'-8⅛"	1⅛"	4'-6⅛"	⅞"	7'-10"	5½"	1
SP4 BOBVF-1	4'-6⅛"	1⅛"	4'-4¼"	⅞"	7'-10"	5½"	1
SP4 BOBVG-1	4'-4¼"	1⅛"	4'-2⅜"	⅞"	7'-10"	5½"	1
SP3 BOBVH-1	4'-2⅜"	1¼"	4'-0⅛"	¾"	5'-7½"	5½"	1
SP2 BOBVI-1	4'-0⅛"	1"	4'-0⅛"	1"	6'-4⅝"	5½"	1



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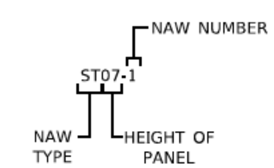
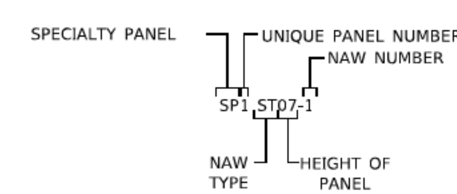
VARIABLE HEIGHT PANEL ELEVATION BUMP-OUT MOUNTED

NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL
ST = STRUCTURE MOUNTED TOP PANEL
SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL
BOTFV = BUMP-OUT STRUCTURE MOUNTED FULL HEIGHT PANEL (VARIABLE HEIGHT)
BOT = BUMP-OUT STRUCTURE MOUNTED TOP PANEL
BOC = BUMP-OUT STRUCTURE MOUNTED CENTER PANEL
BOBV = BUMP-OUT STRUCTURE MOUNTED BOTTOM PANEL (VARIABLE HEIGHT)
SP = SPECIALTY PANEL



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
ℙ	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
⚠1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,NB
PANEL SCHEDULE

NWG-07
DRAWING NO.
1162 OF 1762

PLOT TIME = 1:16:38 PM
PLOT DATE = 7/20/2020
PLOT SCALE = 8.1667 ' / in.
FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\J-17-4296-SG1\30 - C01 - 4296-3\01 - DGN\12 - SHT\02 - Structural\EFK Moen\4296-C01-SHT-GPE-TS18.40NNB_007-EFKMOEN.dgn

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-51	51	980+30.97	99.27	654.59	639.80	640.59	W8x48	14'-9½"	334	710	1,044
S1-52	52	980+42.64	99.27	654.59	640.12	640.59	W8x48	14'-5¾"	334	695	1,029
S1-53	53	980+54.30	99.27	654.59	640.43	641.09	W8x48	14'-2"	334	680	1,014
S1-54	54	980+65.97	99.27	654.59	640.74	641.59	W8x48	13'-10¼"	334	665	999
S1-55	55	980+77.64	99.27	654.59	641.05	641.59	W8x48	13'-6½"	328	650	978
S1-56	56	980+87.64	99.27	654.59	641.32	642.09	W8x48	13'-3¼"	334	638	972
S1-57	57	980+99.30	99.27	654.59	641.63	642.09	W8x48	12'-11½"	328	623	951
S1-58	58	981+09.30	99.27	656.59	641.90	642.59	W8x48	14'-8¼"	334	706	1,040
S1-59	59	981+20.97	99.27	656.59	642.21	643.09	W8x48	14'-4½"	334	691	1,025
S1-60	60	981+32.64	99.27	656.59	642.52	643.09	W8x48	14'-0⅞"	334	676	1,010
S1-61	61	981+44.30	99.27	656.59	642.84	643.59	W8x48	13'-9⅛"	334	661	995
S1-62	62	981+55.97	99.27	656.59	643.15	643.59	W8x48	13'-5⅜"	334	646	980
S1-63	63	981+67.64	99.27	656.59	643.46	644.09	W8x48	13'-1⅝"	328	631	959
S1-64	64	981+77.64	99.27	658.59	643.73	644.59	W8x48	14'-10⅜"	334	714	1,048
S1-65	65	981+89.30	99.27	658.59	644.04	644.59	W8x48	14'-6⅝"	328	699	1,027
S1-66	66	981+99.30	99.27	658.59	644.31	645.09	W8x48	14'-3⅜"	334	686	1,020
S1-67	67	982+10.97	99.27	658.59	644.62	645.09	W8x48	13'-11⅝"	334	671	1,005
S1-68	68	982+22.64	99.27	658.59	644.93	645.59	W8x48	13'-7⅞"	334	656	990

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TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

	PAY ITEM NO.	ITEM	UNIT	TOTAL
	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ. FT.	10,228
*	N/A	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED, HEIGHT >18'	SQ. FT.	8,982

*QUANTITY PROVIDED FOR INFORMATION ONLY. PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED >18' WILL BE PAID IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION". DETAILS TO BE ISSUED TO SUCCESSFUL BIDDER BY CONSTRUCTION REVISION.

1

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

NAW NUMBER
S1-01
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

1

DRAWN BY CMC DATE 05/26/2020
CHECKED BY CDL DATE 05/26/2020

EFK•Moen
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311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS18.40N,NB
POST SCHEDULE
NWG-08
DRAWING NO.
1163 OF 1762

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-69	69	982+34.30	99.27	658.59	645.24	646.09	W8x48	13'-4 1/8"	334	641	975
S1-70	70	982+45.97	99.27	658.59	645.56	646.09	W8x48	13'-0 3/8"	334	626	960
S1-71	71	982+57.64	99.27	660.59	645.87	646.59	W8x48	14'-8 3/4"	328	707	1,035
S1-72	72	982+67.64	99.27	660.59	646.13	646.59	W8x48	14'-5 1/2"	334	694	1,028
S1-73	73	982+79.30	99.27	660.59	646.45	647.09	W8x48	14'-1 3/4"	328	679	1,007
S1-74	74	982+89.30	99.27	660.59	646.71	647.59	W8x48	13'-10 1/2"	334	667	1,001
S1-75	75	983+00.97	99.27	660.59	647.03	647.59	W8x48	13'-6 3/4"	334	652	986
S1-76	76	983+12.64	99.27	660.59	647.34	648.09	W8x48	13'-3"	334	637	971
S1-77	77	983+24.30	99.27	660.59	647.65	648.09	W8x48	12'-11 1/4"	334	622	956
S1-78	78	983+35.97	99.27	662.59	647.96	648.59	W8x48	14'-7 1/2"	334	703	1,037
S1-79	79	983+47.64	99.27	662.59	648.27	649.09	W8x48	14'-3 3/4"	328	688	1,016
S1-80	80	983+57.64	99.27	662.59	648.54	649.09	W8x48	14'-0 5/8"	334	675	1,009
S1-81	81	983+69.30	99.27	662.59	648.85	649.59	W8x48	13'-8 7/8"	328	660	988
S1-82	82	983+79.30	99.27	662.59	649.12	649.59	W8x48	13'-5 5/8"	334	647	981
S1-83	83	983+90.97	99.27	662.59	649.43	650.09	W8x48	13'-1 7/8"	334	632	966
S1-84	84	984+02.64	99.27	664.59	649.75	650.59	W8x48	14'-10 1/8"	334	713	1,047
S1-85	85	984+14.30	99.27	664.59	650.06	650.59	W8x48	14'-6 3/8"	334	698	1,032
S1-86	86	984+25.97	99.27	664.59	650.37	651.09	W8x48	14'-2 3/4"	334	683	1,017
S1-87	87	984+37.64	99.27	664.59	650.67	651.09	W8x48	13'-11"	328	669	997
S1-88	88	984+47.64	99.27	664.59	650.93	651.59	W8x48	13'-8"	334	656	990
S1-89	89	984+59.30	99.27	664.59	651.22	651.59	W8x48	13'-4 3/8"	317	642	959
S1-90	90	984+65.97	99.27	664.59	651.39	652.09	W8x48	13'-2 3/8"	334	634	968
S1-91	91	984+77.64	99.27	664.59	651.68	652.09	W8x48	12'-11"	334	620	954
S1-92	92	984+89.30	99.27	666.59	651.96	652.59	W8x48	14'-7 5/8"	334	703	1,037
S1-93	93	985+00.97	99.27	666.59	652.23	652.59	W8x48	14'-4 1/4"	317	690	1,007
S1-94	94	985+07.64	99.27	666.59	652.39	653.09	W8x48	14'-2 3/8"	334	682	1,016
S1-95	95	985+19.30	99.27	666.59	652.66	653.09	W8x48	13'-11 1/4"	317	669	986
S1-96	96	985+25.99	99.27	666.59	652.81	653.59	W8x48	13'-9 3/8"	334	662	996
S1-97	97	985+37.66	99.27	666.59	653.07	653.59	W8x48	13'-6 1/4"	334	650	984
S1-98	98	985+49.32	99.27	666.59	653.32	653.59	W8x48	13'-3 1/4"	317	637	954
BO-01	99	985+56.20	99.49	666.59	650.32	VARIES	BUILT UP	16'-3 3/8"	206	942	1,148
BO-02	100	985+61.91	105.20	666.59	650.38	VARIES	BUILT UP	16'-2 1/2"	206	938	1,144
BO-03	101	985+67.96	105.20	666.59	650.51	VARIES	W10x45	16'-1"	147	724	871
BO-04	102	985+75.96	105.20	668.59	650.67	VARIES	W10x45	17'-11"	147	807	954
BO-05	103	985+83.96	105.20	668.59	650.83	VARIES	W10x45	17'-9 1/8"	147	800	947
BO-06	104	985+91.96	105.20	668.59	651.00	VARIES	W10x45	17'-7 1/8"	147	792	939
BO-07	105	985+99.96	105.20	668.59	651.15	VARIES	W10x45	17'-5 1/4"	147	785	932
BO-08	106	986+07.96	105.20	668.59	651.31	VARIES	W10x45	17'-3 3/8"	147	778	925
BO-09	107	986+14.00	105.20	668.59	651.50	VARIES	BUILT UP	17'-1 1/8"	206	989	1,195
BO-10	108	986+18.92	100.29	668.59	651.50	VARIES	BUILT UP	17'-1 1/8"	206	989	1,195
S1-99	109	986+27.13	99.82	668.59	654.92	655.59	W8x48	13'-8"	334	657	991
S1-100	110	986+38.79	99.43	668.59	655.11	655.59	W8x48	13'-5 3/4"	334	648	982
S1-101	111	986+50.45	99.27	668.59	655.31	656.09	W8x48	13'-3 3/8"	334	638	972
S1-102	112	986+62.12	99.27	668.59	655.51	656.09	W8x48	13'-1"	334	628	962
S1-103	113	986+73.79	99.27	668.59	655.71	656.09	W8x48	12'-10 5/8"	334	619	953
S1-104	114	986+85.45	99.27	670.59	655.90	656.59	W8x48	14'-8 1/4"	334	706	1,040
S1-105	115	986+97.12	99.27	670.59	656.09	656.59	W8x48	14'-6"	334	697	1,031
S1-106	116	987+08.79	99.27	670.59	656.27	656.59	W8x48	14'-3 3/4"	334	688	1,022
S1-107	117	987+20.45	99.27	670.59	656.45	657.09	W8x48	14'-1 5/8"	334	679	1,013
S1-108	118	987+32.12	99.27	670.59	656.62	657.09	W8x48	13'-11 5/8"	334	671	1,005
S1-109	119	987+43.79	99.27	670.59	656.79	657.09	W8x48	13'-9 5/8"	322	663	985
S1-110	120	987+51.82	99.27	670.59	656.90	657.59	W8x48	13'-8 1/4"	334	658	992
S1-111	121	987+63.49	99.27	670.59	657.06	657.59	W8x48	13'-6 3/8"	330	650	980
S1-112	122	987+74.06	99.27	670.59	657.20	657.59	W8x48	13'-4 3/4"	334	643	977
S1-113	123	987+85.73	99.27	670.59	657.35	658.09	W8x48	13'-2 7/8"	334	636	970
S1-114	124	987+97.39	99.27	670.59	657.49	658.09	W8x48	13'-1 1/4"	330	629	959
S1-115	125	988+07.97	99.27	670.59	657.62	658.09	W8x48	12'-11 3/4"	295	623	918

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14. 1

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,NB
POST SCHEDULE

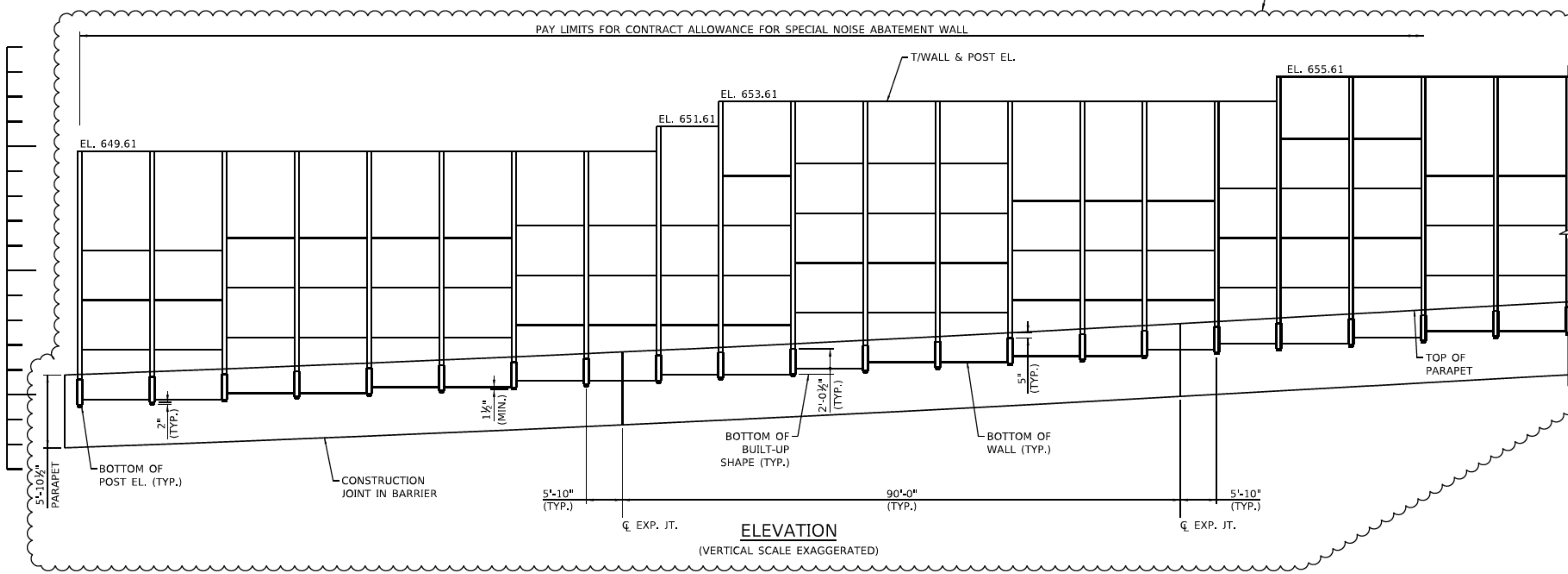
NWG-09
DRAWING NO.

BENCHMARK: BM27: CH "□" ON FOOTING OF NOISE WALL AT OPENING IN WALL ON SBL APPROX 650' SE OF S SIDE OF ROBERTS RD BRIDGE (87th PL).

EXISTING STRUCTURE: NONE

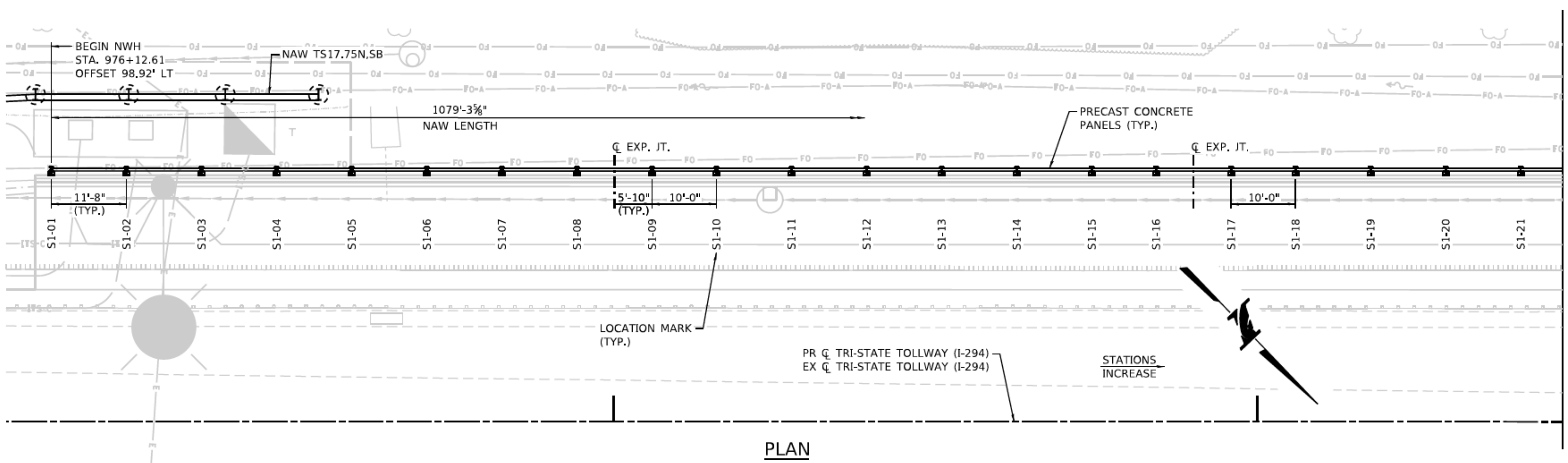
SALVAGE: NONE

PROPOSED STRUCTURE: STRUCTURE MOUNTED NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY STRUCTUAL MEMBER ATTACHED TO BACK OF PARAPET ALONG WESTERN SHOULDER OF SB I-294 IS 1079'-3⅝" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

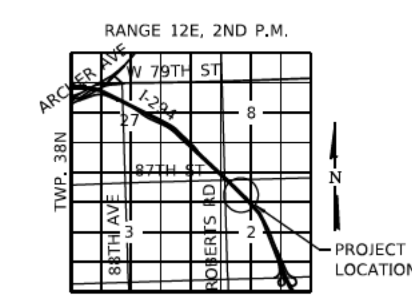
INDEX OF SHEETS

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWH--07.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

EXISTING TRAFFIC SIGN
PROPOSED LUMINAIRE
EXISTING ELECTRIC LINE
PROPOSED STORM SEWER
PROPOSED CATCH BASIN
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
ITS COMMUNICATIONS CONDUIT
ITS ELECTRICAL CONDUIT
EXISTING NOISEWALL
PROPOSED NOISEWALL
PROPOSED DRILLED SHAFT
EXISTING GUARDRAIL
EXISTING VEGETATION
EDGE OF WATER



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 976+12.61 TO 986+86.89
NOISE ABATEMENT WALL TS18.40N,SB

DRAWN BY	CMC	DATE	05/26/2020
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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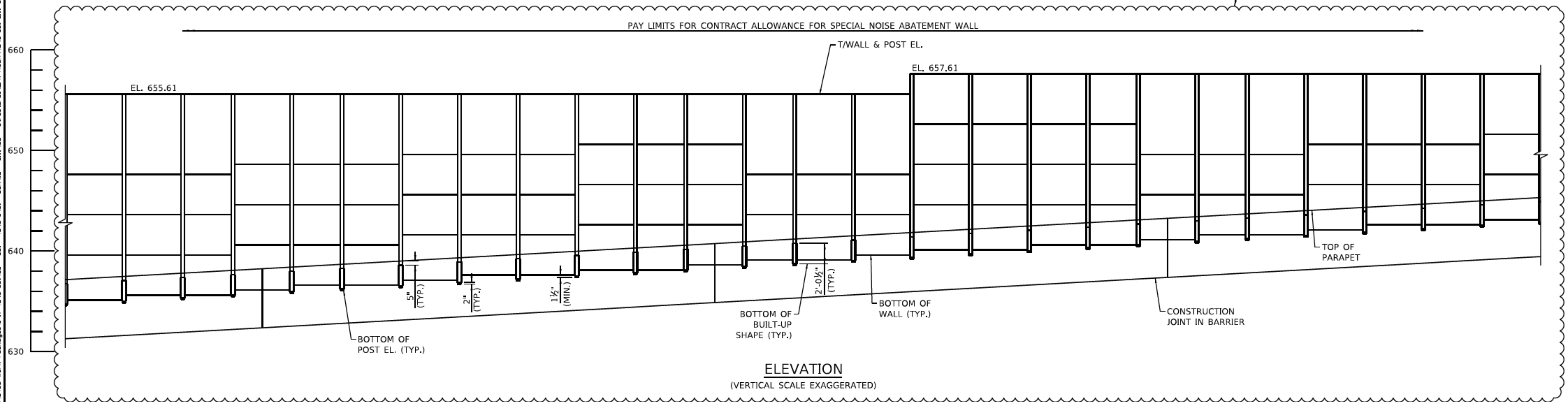
REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

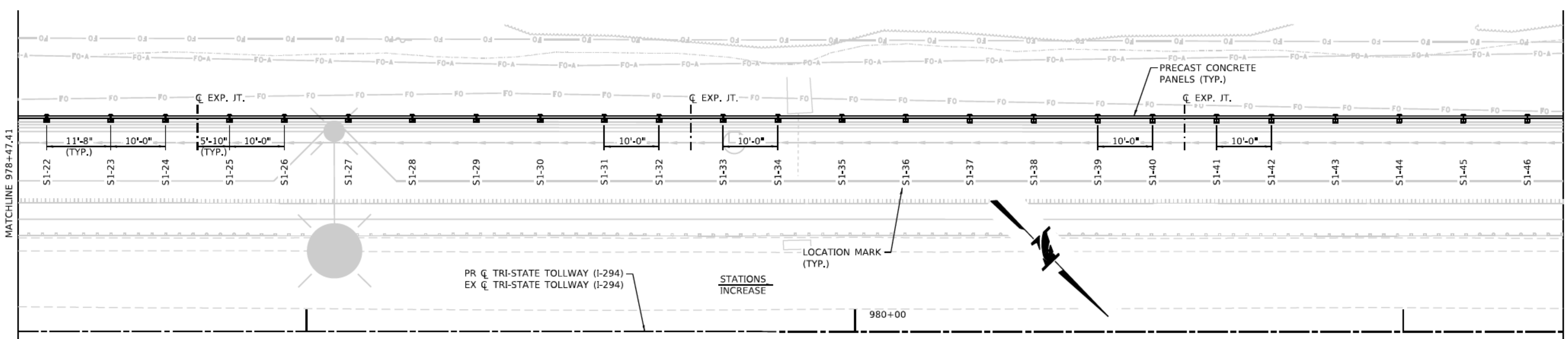
NOISE ABATEMENT WALL TS18.40N,SB
GENERAL PLAN & ELEVATION

NWH-01
DRAWING NO.
1165 OF 1762

PLOT SCALE = 8.1667 '/ in.
PLOT DATE = 7/20/2020
PLOT TIME = 1:17:01 PM



ELEVATION
(VERTICAL SCALE EXAGGERATED)



PLAN

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ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
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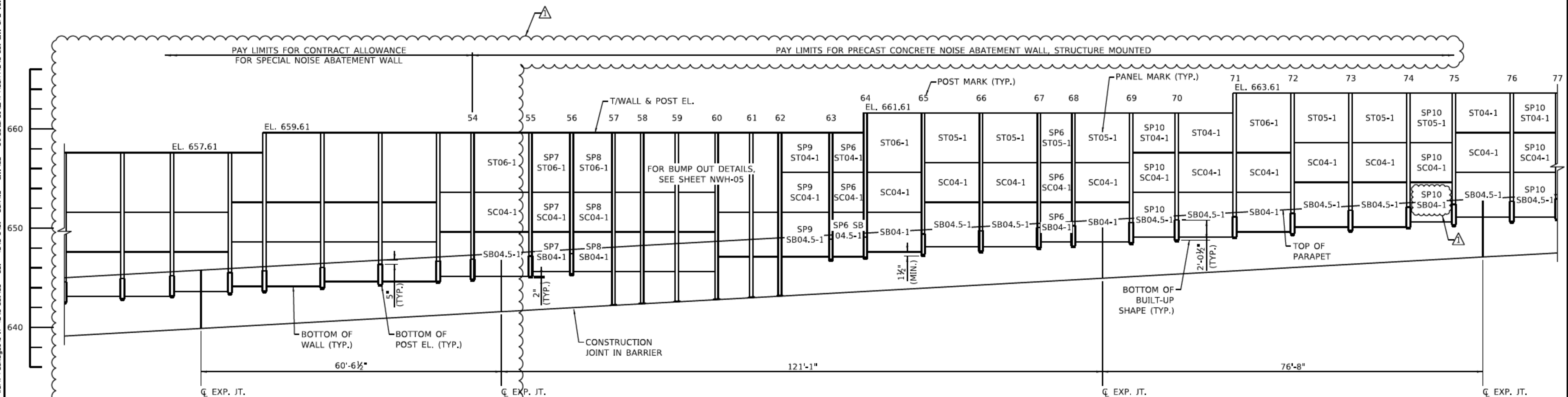
CONTRACT NO. I-20-4517

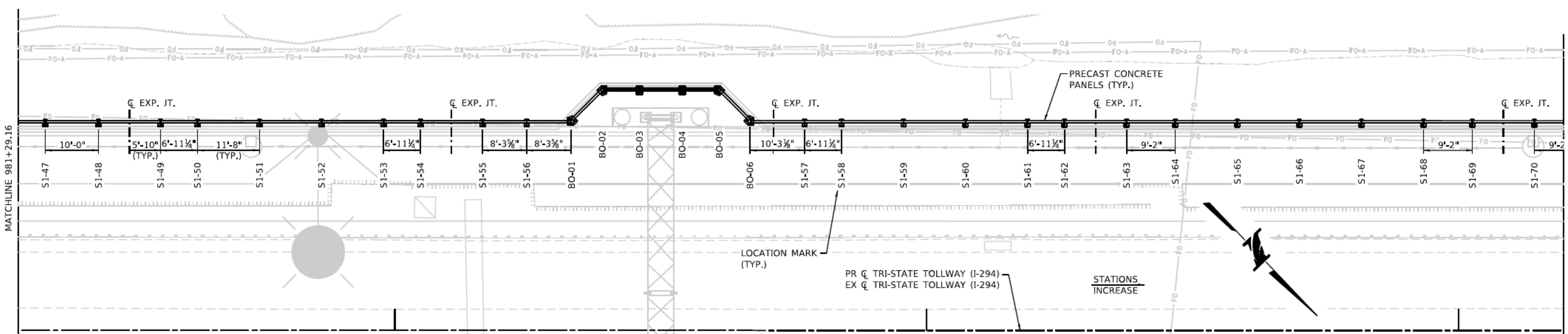
NOISE ABATEMENT WALL TS18.40N,SB
GENERAL PLAN & ELEVATION

NWH-02
DRAWING NO.
1166 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020	
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
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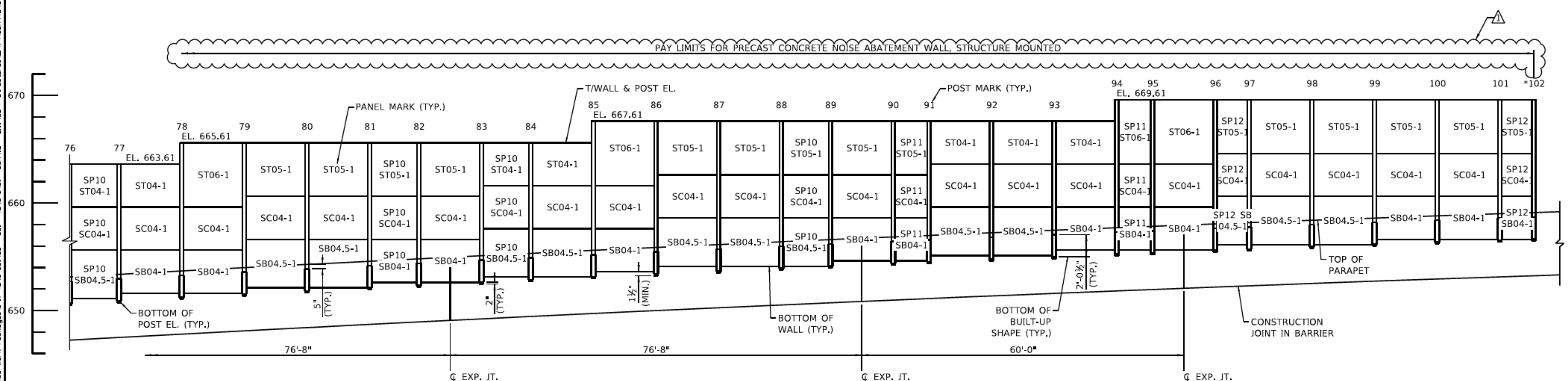
CONTRACT NO. I-20-4517

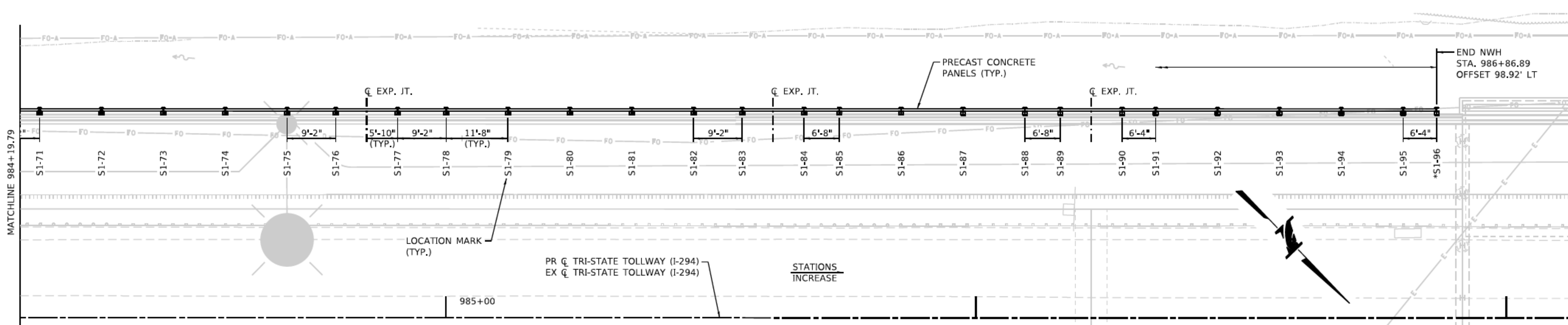
NOISE ABATEMENT WALL TS18.40N,SB
GENERAL PLAN & ELEVATION

NWH-03
DRAWING NO.
1167 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

* FOR DETAILS OF END POST, SEE PLAN AT TRANSITION TO CONCRETE NAW ON SHEET NWN-01 OF TS18.60N,SB & TS18.70N,NB SHEETS.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,SB
GENERAL PLAN & ELEVATION

NWH-04
DRAWING NO.

STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
***SB04-1	4'-0"	11'-6"	5½"	12
***SB04.5-1	4'-6"	11'-6"	5½"	14
SC04-1	4'-0"	11'-6"	5½"	27
ST04-1	4'-0"	11'-6"	5½"	7
ST05-1	5'-0"	11'-6"	5½"	15
ST06-1	6'-0"	11'-6"	5½"	5
***SP6 SB04-1	4'-0"	6'-9¼"	5½"	1
***SP6 SB04.5-1	4'-6"	6'-9¼"	5½"	1
SP6 SC04-1	4'-0"	6'-9¼"	5½"	2
SP6 ST04-1	4'-0"	6'-9¼"	5½"	1
SP6 ST05-1	5'-0"	6'-9¼"	5½"	1
***SP7 SB04-1	4'-0"	8'-1⅝"	5½"	1
SP7 SC04-1	4'-0"	8'-1⅝"	5½"	1
SP7 ST06-1	6'-0"	8'-1⅝"	5½"	1
***SP8 SB04-1	4'-0"	8'-2⅜"	5½"	1
SP8 SC04-1	4'-0"	8'-2⅜"	5½"	1
SP8 ST06-1	6'-0"	8'-2⅜"	5½"	1
***SP9 SB04.5-1	4'-6"	10'-0⅛"	5½"	1
SP9 SC04-1	4'-0"	10'-0⅛"	5½"	1
SP9 ST04-1	4'-0"	10'-0⅛"	5½"	1
***SP10 SB04-1	4'-0"	9'-0"	5½"	2
***SP10 SB04.5-1	4'-6"	9'-0"	5½"	4
SP10 SC04-1	4'-0"	9'-0"	5½"	6
SP10 ST04-1	4'-0"	9'-0"	5½"	3
SP10 ST05-1	5'-0"	9'-0"	5½"	3
***SP11 SB04-1	4'-0"	6'-6"	5½"	2
SP11 SC04-1	4'-0"	6'-6"	5½"	2
SP11 ST05-1	5'-0"	6'-6"	5½"	1
SP11 ST06-1	6'-0"	6'-6"	5½"	1
***SP12 SB04-1	4'-0"	6'-2"	5½"	1
***SP12 SB04.5-1	4'-6"	6'-2"	5½"	1
SP12 SC04-1	4'-0"	6'-2"	5½"	2
SP12 ST05-1	5'-0"	6'-2"	5½"	2

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G13 OR G14.

***CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G13 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

BUMP-OUT STRUCTURE MOUNTED PANEL SCHEDULE

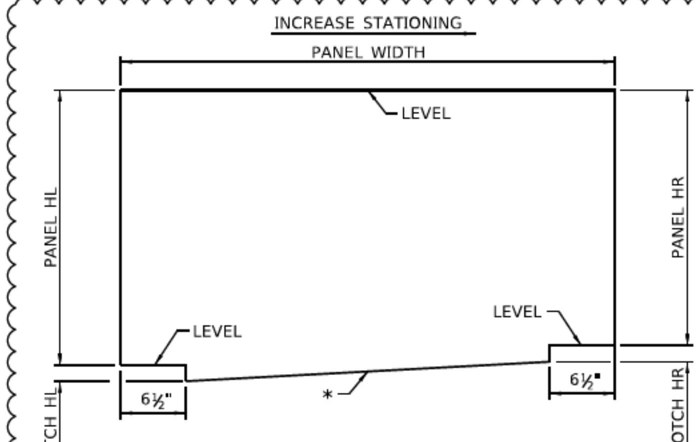
PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOC04-1	4'-0"	7'-5"	5½"	2
SP1 BOC04.5-1	4'-6"	7'-5"	5½"	1
SP1 BOT06-1	6'-0"	7'-5"	5½"	1
SP1 BOT08-1	8'-0"	7'-5"	5½"	1
SP3 BOC04-1	4'-0"	6'-7"	5½"	2
SP3 BOC04.5-1	4'-6"	6'-7"	5½"	1
SP3 BOT06-1	6'-0"	6'-7"	5½"	1
SP3 BOT08-1	8'-0"	6'-7"	5½"	1
SP4 BOC04-1	4'-0"	7'-10"	5½"	2
SP4 BOT06-1	6'-0"	7'-10"	5½"	1

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G-13 AND G-14.

* TO ACCOMMODATE VARYING SLAB GRADES, PANEL HEIGHTS WILL VARY TO FOLLOW SLOPE ON BUMP-OUT SLAB AND MAINTAIN A 1" GAP BETWEEN BOTTOM OF PANEL AND TOP OF SLAB.

BUMP-OUT STRUCTURE MOUNTED VARIABLE HEIGHT PANEL SCHEDULE

PANEL MARK	PANEL HL	NOTCH HL	PANEL HR	NOTCH HR	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOBVA-1	3'-2¾"	1⅛"	3'-1½"	⅞"	7'-6⅛"	5½"	1
SP3 BOBVB-1	3'-1½"	1¼"	2'-11⅛"	¾"	6'-7"	5½"	1
SP4 BOBVC-1	2'-11⅛"	1⅛"	2'-8½"	⅞"	7'-10"	5½"	1
SP3 BOBVD-1	4'-2½"	1¼"	4'-0⅛"	¾"	6'-7"	5½"	1
SP1 BOBVE-1	4'-0⅛"	1"	4'-0⅛"	1"	7'-6⅛"	5½"	1



VARIABLE HEIGHT PANEL ELEVATION BUMP-OUT MOUNTED

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

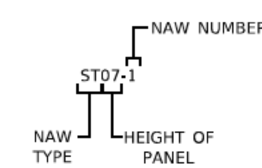
ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

NAW TYPE

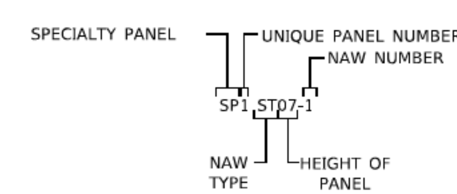
STF = STRUCTURE MOUNTED FULL HEIGHT PANEL
ST = STRUCTURE MOUNTED TOP PANEL
SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL
BOTFV = BUMP-OUT STRUCTURE MOUNTED FULL HEIGHT PANEL (VARIABLE HEIGHT)
BOT = BUMP-OUT STRUCTURE MOUNTED TOP PANEL
BOC = BUMP-OUT STRUCTURE MOUNTED CENTER PANEL
BOBV = BUMP-OUT STRUCTURE MOUNTED BOTTOM PANEL (VARIABLE HEIGHT)
SP = SPECIALTY PANEL

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
ℬ	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
ℙ	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

DRAWN BY CMC DATE 05/26/2020
CHECKED BY CDL DATE 05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,SB
PANEL SCHEDULE

NWH-06
DRAWING NO.
1170 OF 1762

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-54	54	982+04.82	-99.27	659.61	644.66	645.11	W8x48	14'-11 3/8"	334	718	1,052
S1-55	55	982+16.48	-99.27	659.61	644.99	645.61	W8x48	14'-7 1/2"	323	703	1,026
S1-56	56	982+24.79	-99.27	659.61	645.22	645.61	W8x48	14'-4 3/4"	323	691	1,014
BO-01	57	982+33.29	-99.49	659.61	642.30	VARIES	BUILT UP	17'-3 3/4"	206	1,002	1,208
BO-02	58	982+39.00	-105.20	659.61	642.40	VARIES	BUILT UP	17'-2 1/2"	206	996	1,202
BO-03	59	982+46.00	-105.20	659.61	642.60	VARIES	W10x45	17'-0 1/8"	147	766	913
BO-04	60	982+54.00	-105.20	659.61	642.82	VARIES	W10x45	16'-9 1/2"	147	756	903
BO-05	61	982+61.00	-105.20	659.61	643.02	VARIES	BUILT UP	16'-7 1/8"	206	961	1,167
BO-06	62	982+66.71	-99.49	659.61	643.02	VARIES	BUILT UP	16'-7 1/8"	206	961	1,167
S1-57	63	982+77.03	-99.27	659.61	646.68	647.11	W8x48	12'-11 1/4"	318	622	940
S1-58	64	982+83.96	-99.27	661.61	646.87	647.61	W8x48	14'-9"	334	708	1,042
S1-59	65	982+95.63	-99.27	661.61	647.19	648.11	W8x48	14'-5"	334	693	1,027
S1-60	66	983+07.30	-99.27	661.61	647.52	648.11	W8x48	14'-1 1/8"	334	677	1,011
S1-61	67	983+18.96	-99.27	661.61	647.84	648.61	W8x48	13'-9 1/4"	318	661	979
S1-62	68	983+25.90	-99.27	661.61	648.04	648.61	W8x48	13'-6 7/8"	334	652	986

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

	PAY ITEM NO.	ITEM	UNIT	TOTAL
	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ. FT.	6,261
*	N/A	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED, HEIGHT >18'	SQ. FT.	10,728

*QUANTITY PROVIDED FOR INFORMATION ONLY. PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED >18' WILL BE PAID IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION". DETAILS TO BE ISSUED TO SUCCESSFUL BIDDER BY CONSTRUCTION REVISION.

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
└POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.40N,SB
POST SCHEDULE

NWH-07
DRAWING NO.

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STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-63	69	983+37.57	-99.27	661.61	648.36	649.11	W8x48	13'-3"	326	637	963
S1-64	70	983+46.73	-99.27	661.61	648.62	649.11	W8x48	12'-12"	334	624	958
S1-65	71	983+58.40	-99.27	663.61	648.94	649.61	W8x48	14'-8"	334	705	1,039
S1-66	72	983+70.07	-99.27	663.61	649.27	650.11	W8x48	14'-4⅛"	334	689	1,023
S1-67	73	983+81.73	-99.27	663.61	649.59	650.11	W8x48	14'-0¼"	334	673	1,007
S1-68	74	983+93.40	-99.27	663.61	649.92	650.61	W8x48	13'-8⅜"	326	658	984
S1-69	75	984+02.57	-99.27	663.61	650.17	651.11	W8x48	13'-5¼"	334	646	980
S1-70	76	984+14.23	-99.27	663.61	650.50	651.11	W8x48	13'-1⅜"	326	630	956
S1-71	77	984+23.40	-99.27	663.61	650.74	651.61	W8x48	12'-10½"	334	618	952
S1-72	78	984+35.07	-99.27	665.61	651.06	651.61	W8x48	14'-6¾"	334	699	1,033
S1-73	79	984+46.73	-99.27	665.61	651.36	652.11	W8x48	14'-3"	334	685	1,019
S1-74	80	984+58.40	-99.27	665.61	651.66	652.11	W8x48	13'-11⅜"	334	670	1,004
S1-75	81	984+70.07	-99.27	665.61	651.96	652.61	W8x48	13'-7⅞"	326	656	982
S1-76	82	984+79.23	-99.27	665.61	652.19	652.61	W8x48	13'-5⅛"	334	645	979
S1-77	83	984+90.90	-99.27	665.61	652.48	653.11	W8x48	13'-1⅝"	326	631	957
S1-78	84	985+00.07	-99.27	665.61	652.70	653.11	W8x48	12'-11"	334	621	955
S1-79	85	985+11.73	-99.27	667.61	652.97	653.61	W8x48	14'-7¾"	334	703	1,037
S1-80	86	985+23.40	-99.27	667.61	653.24	654.11	W8x48	14'-4½"	334	690	1,024
S1-81	87	985+35.07	-99.27	667.61	653.51	654.11	W8x48	14'-1¼"	334	678	1,012
S1-82	88	985+46.73	-99.27	667.61	653.77	654.11	W8x48	13'-10⅛"	326	665	991
S1-83	89	985+55.90	-99.27	667.61	653.97	654.61	W8x48	13'-7¾"	334	655	989
S1-84	90	985+67.57	-99.27	667.61	654.22	654.61	W8x48	13'-4⅝"	317	643	960
S1-85	91	985+74.23	-99.27	667.61	654.37	655.11	W8x48	13'-3"	334	636	970
S1-86	92	985+85.90	-99.27	667.61	654.61	655.11	W8x48	13'-0⅛"	334	625	959
S1-87	93	985+97.57	-99.27	667.61	654.85	655.61	W8x48	12'-9¼"	334	613	947
S1-88	94	986+09.23	-99.27	669.61	655.08	655.61	W8x48	14'-6⅜"	317	698	1,015
S1-89	95	986+15.90	-99.27	669.61	655.21	655.61	W8x48	14'-4⅞"	334	692	1,026
S1-90	96	986+27.57	-99.27	669.61	655.43	656.11	W8x48	14'-2¼"	316	681	997
S1-91	97	986+33.90	-99.27	669.61	655.55	656.11	W8x48	14'-0¾"	334	675	1,009
S1-92	98	986+45.57	-99.27	669.61	655.77	656.11	W8x48	13'-10⅛"	334	665	999
S1-93	99	986+57.23	-99.27	669.61	655.98	656.61	W8x48	13'-7⅝"	334	655	989
S1-94	100	986+68.90	-99.27	669.61	656.18	656.61	W8x48	13'-5⅛"	334	645	979
S1-95	101	986+80.57	-99.27	669.61	656.38	656.61	W8x48	13'-2¾"	316	636	952
S1-96	102	986+86.90	-99.27	669.61	656.49	656.61	W8x48	13'-1½"	295	631	926

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
└ POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14. ⚠1

DRAWN BY CMC DATE 05/26/2020
CHECKED BY CDL DATE 05/26/2020

EFK•Moen Civil Engineering Design
311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS18.40N,SB
POST SCHEDULE

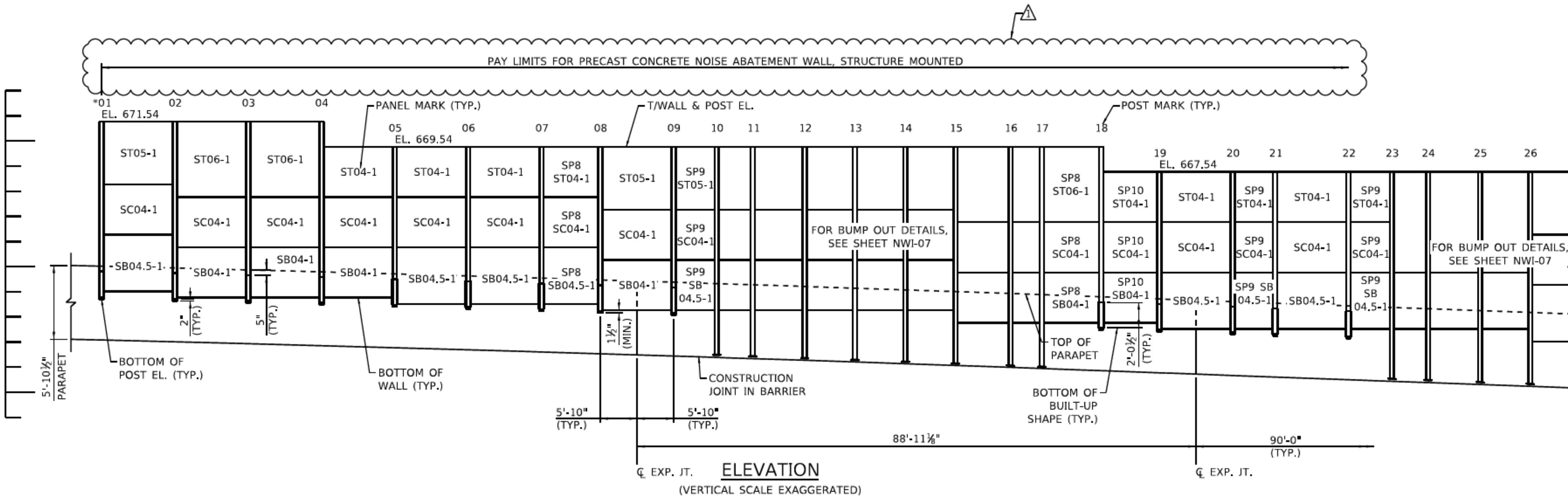
NWH-08
DRAWING NO.

BENCHMARK: BM3: CH "□" ON TOP OF PARAPET WALL, NBL OUTSIDE SHOULDER, APPROX STA 1009+00, RT

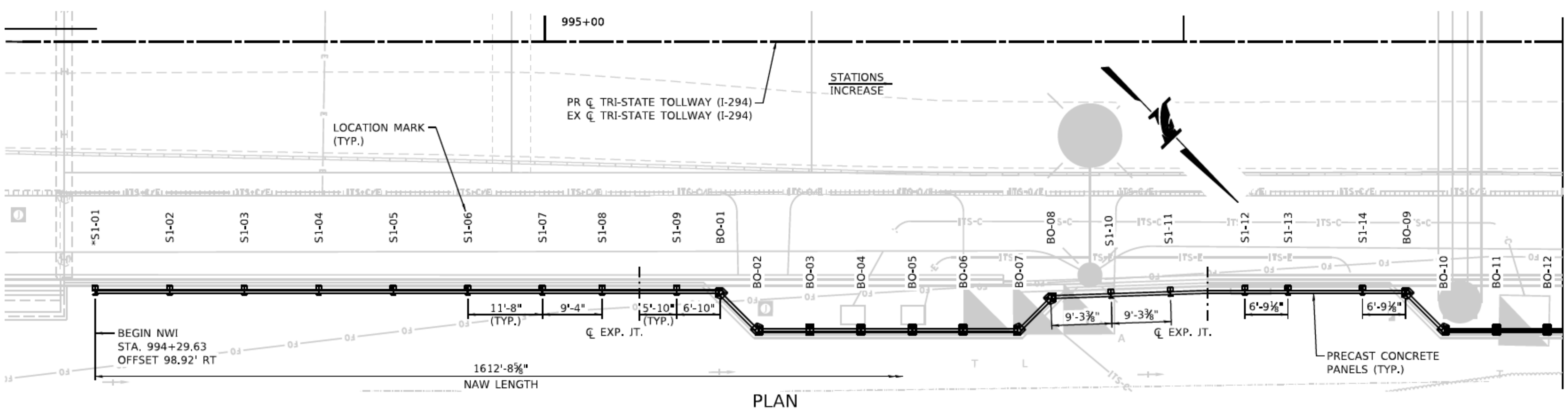
EXISTING STRUCTURE: NONE

SALVAGE: NONE

PROPOSED STRUCTURE: STRUCTURE MOUNTED NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY STRUCTUAL MEMBER ATTACHED TO BACK OF PARAPET ALONG EASTERN SHOULDER OF NB I-294 IS 1612'-8⅝" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION
(VERTICAL SCALE EXAGGERATED)



PLAN

* FOR DETAILS OF END POST, SEE PLAN AT TRANSITION TO CONCRETE NAW ON SHEET NWN-01 OF TS18.60N,SB & TS18.70N,NB SHEETS.

HIGHWAY CLASSIFICATION

NB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 68,720 (2013); 110,100 (2040)
AADT: 11,683 (2013); 18,717 (2040)
DHV: 6,110 (2013); 8,700 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

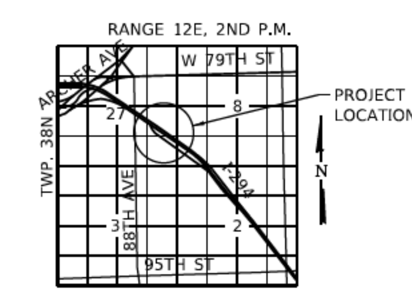
INDEX OF SHEETS

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWI-10.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

PROPOSED LUMINAIRE
EXISTING ELECTRIC LINE
PROPOSED STORM SEWER
PROPOSED CATCH BASIN
FIBER OPTIC LINE
ITS COMMUNICATIONS CONDUIT
ITS ELECTRICAL CONDUIT
ITS LINE
EXISTING CONCRETE BARRIER
EXISTING NOISEWALL
PROPOSED NOISEWALL
EXISTING VEGETATION
EDGE OF WATER



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 994+29.63 TO 1010+21.35
NOISE ABATEMENT WALL TS18.80N,NB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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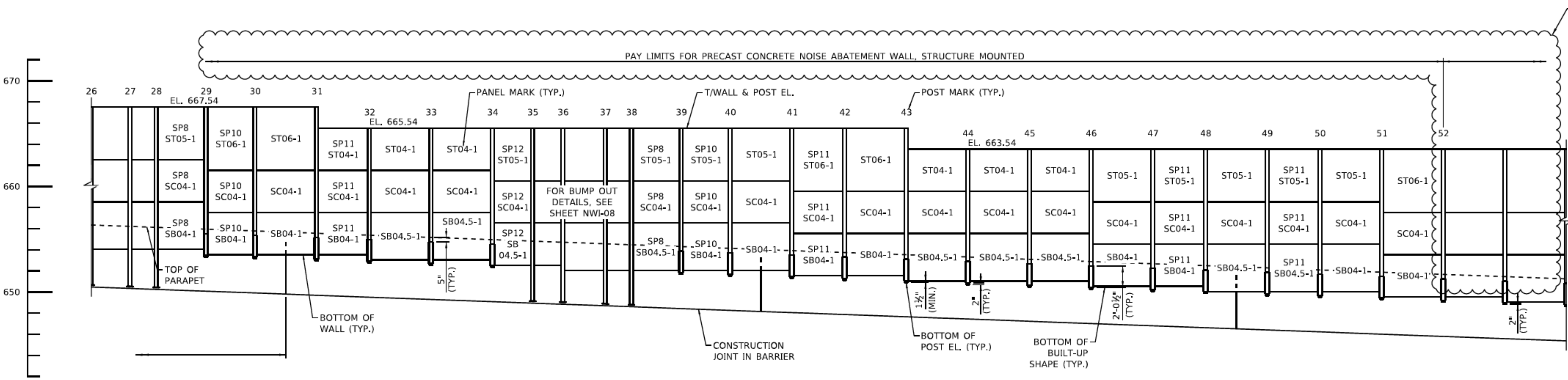
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

NWI-01
DRAWING NO. 1173 OF 1762



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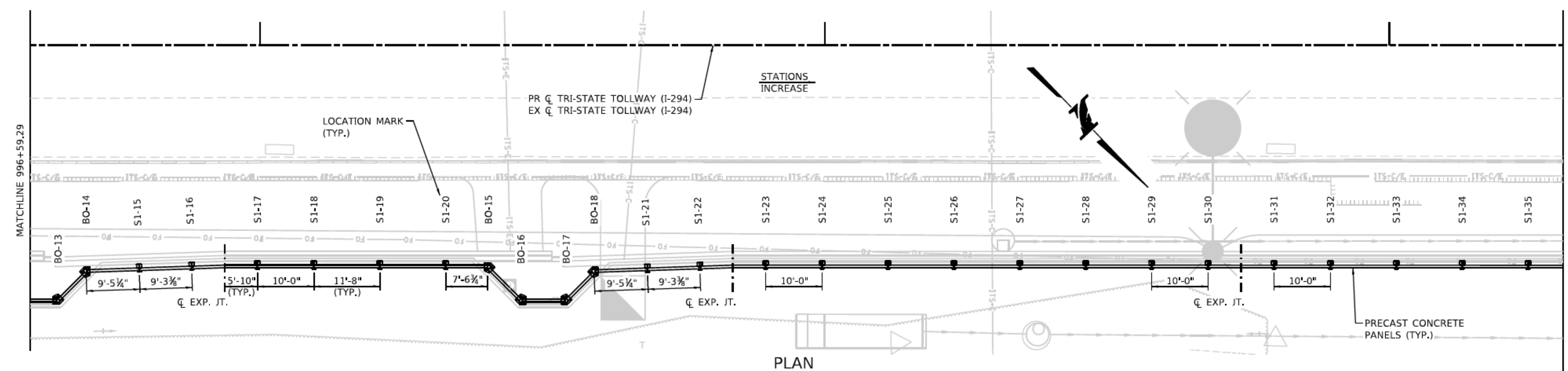

PLAN

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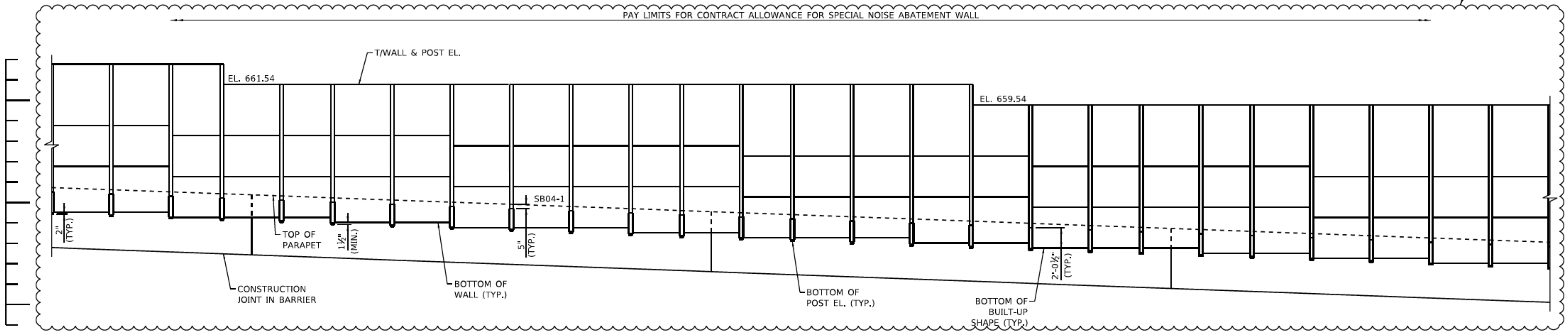
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

NWI-02
DRAWING NO.
1174 OF 1762

PLOT DATE = 7/20/2020
PLOT TIME = 1:19:36 PM



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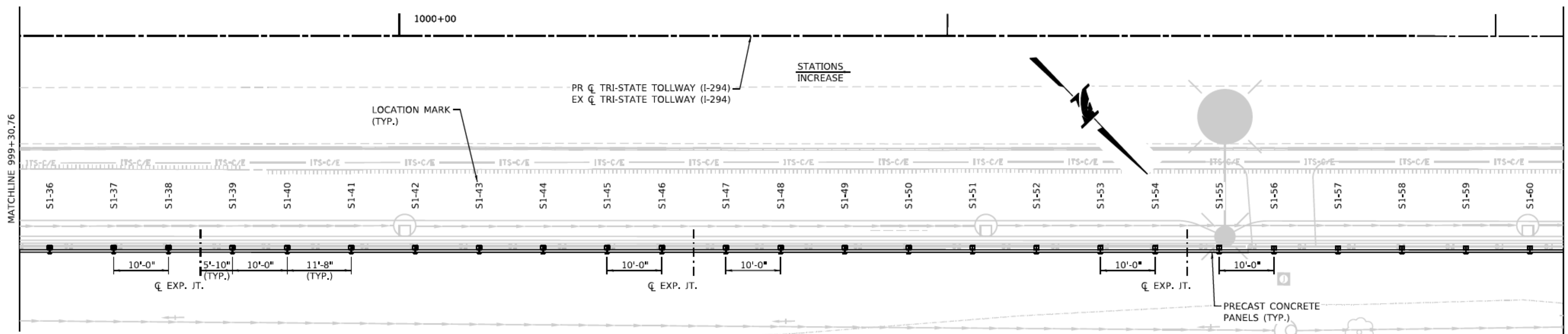

PLAN

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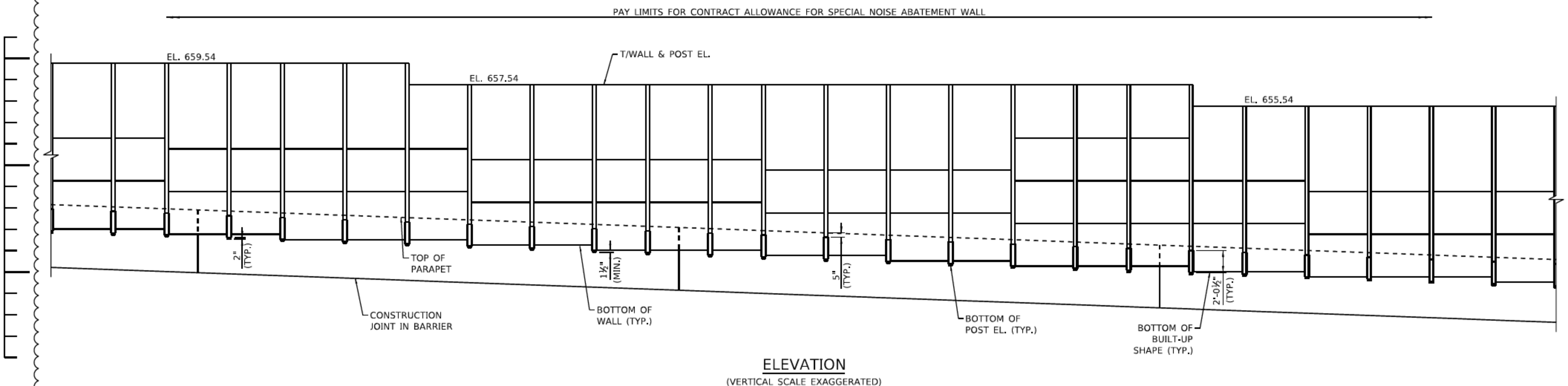
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

NWI-03
DRAWING NO.
1175 OF 1762



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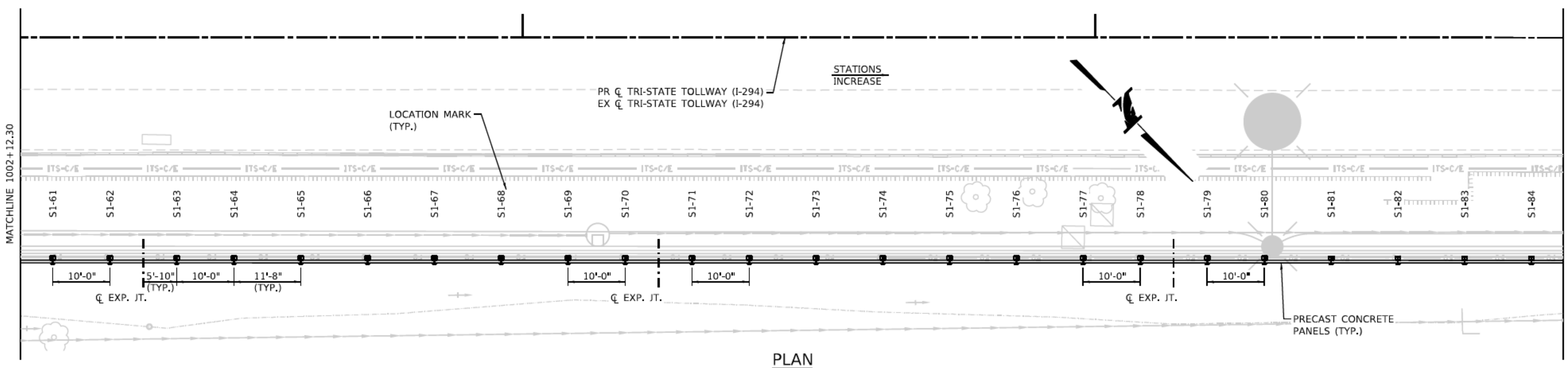

PLAN

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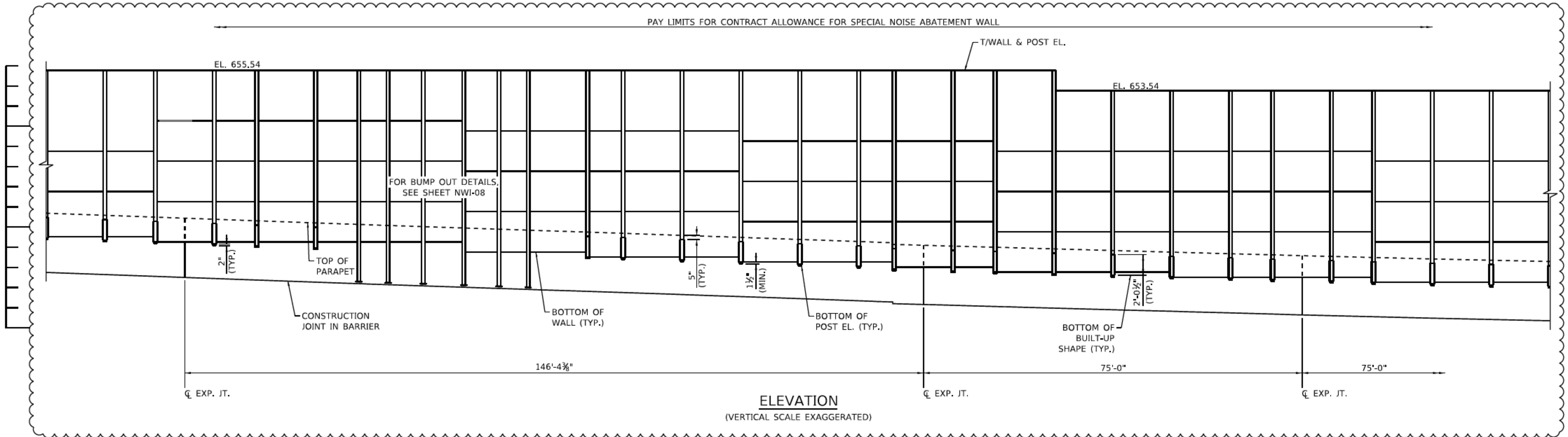
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

NWI-04

DRAWING NO.



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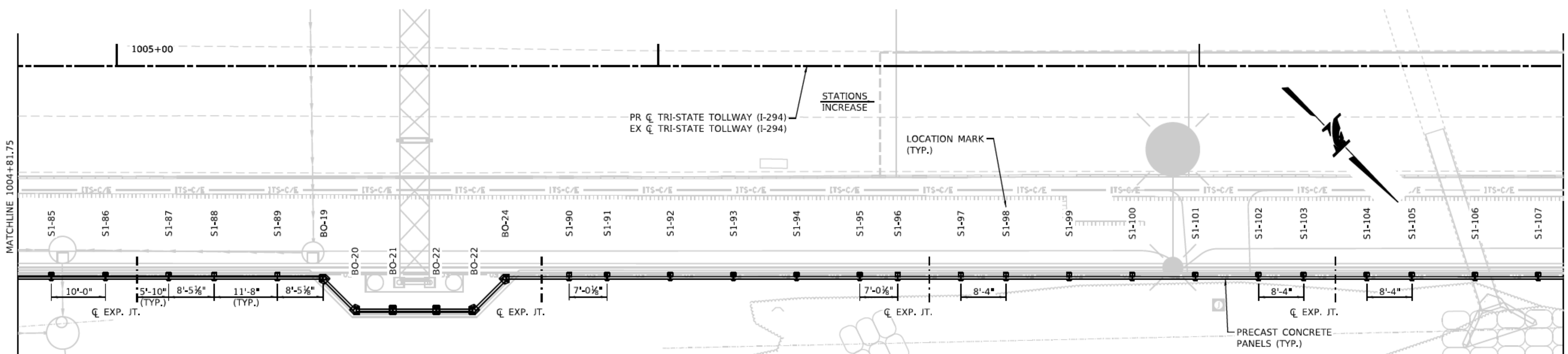
(VERTICAL SCALE EXAGGERATED)



PLAN

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CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

REVISIONS

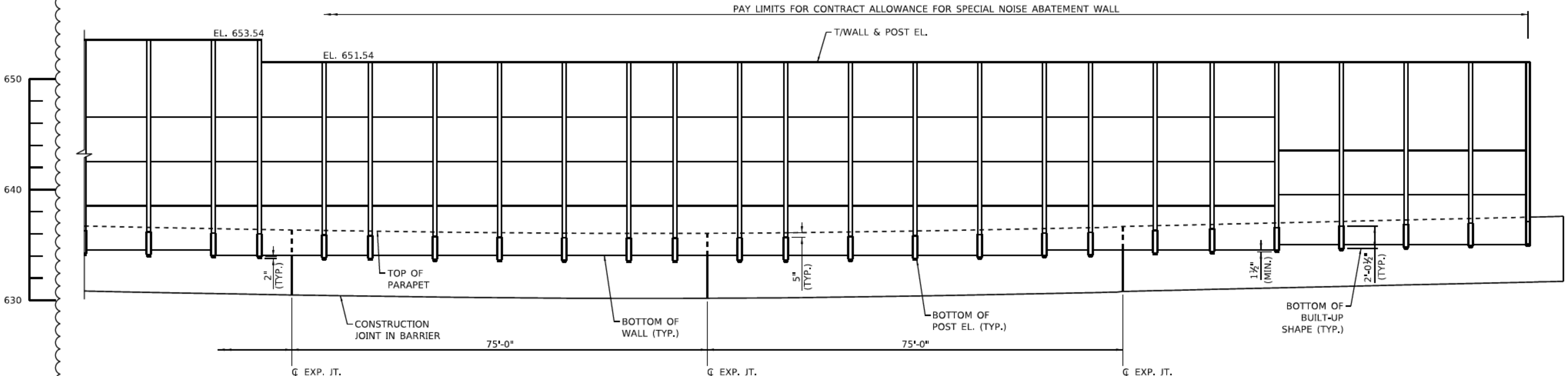
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

NWI-05

DRAWING NO. 1177 OF 1762



ELEVATION

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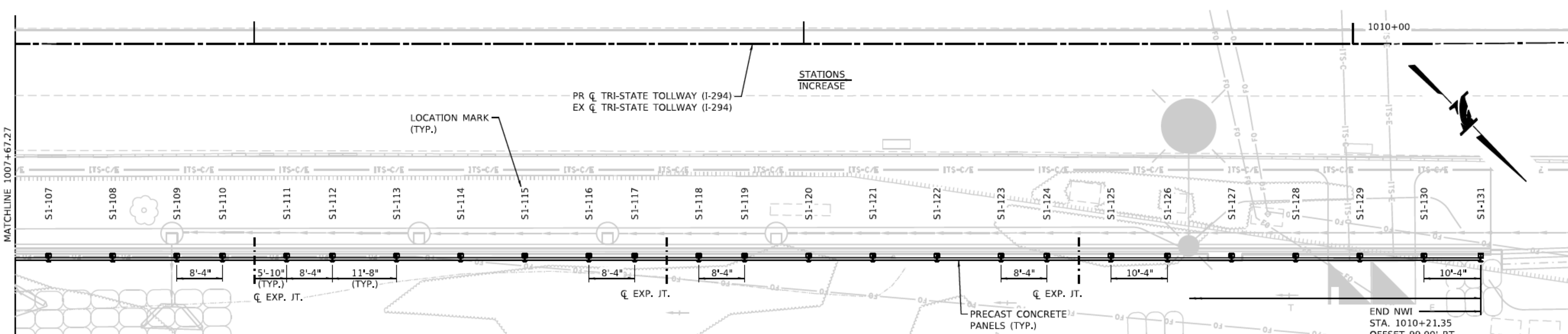

PLAN

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ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

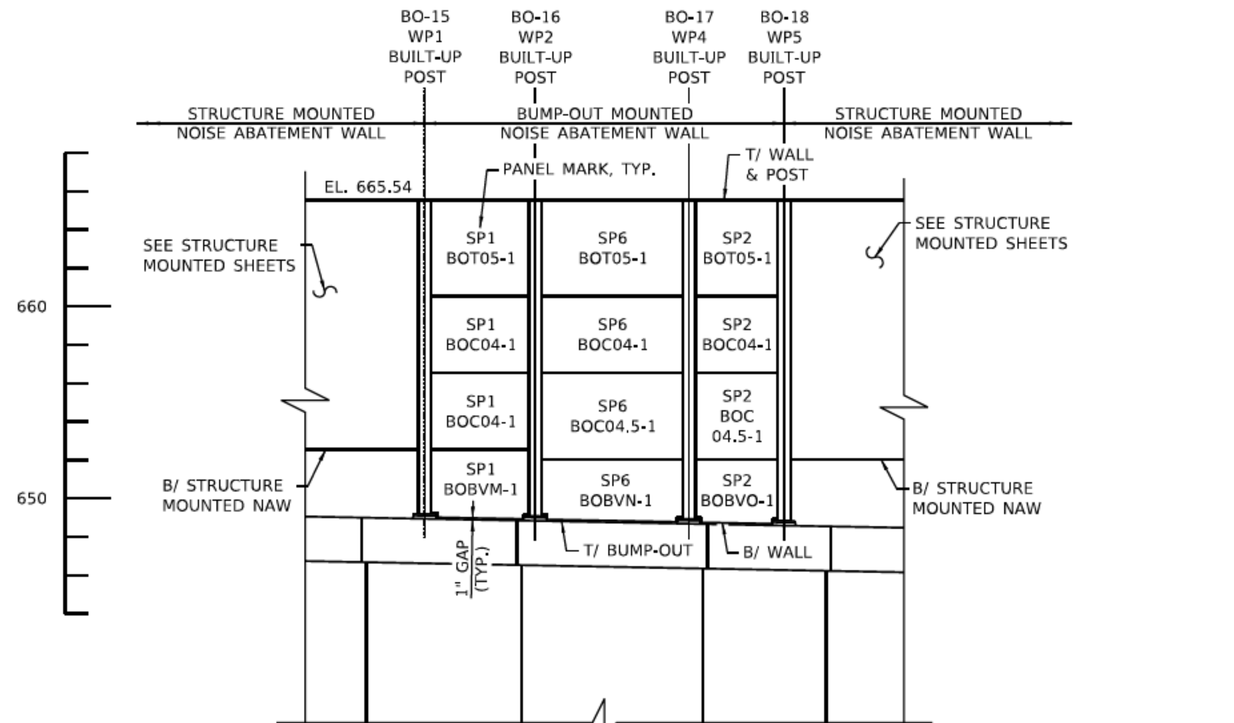
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
GENERAL PLAN & ELEVATION

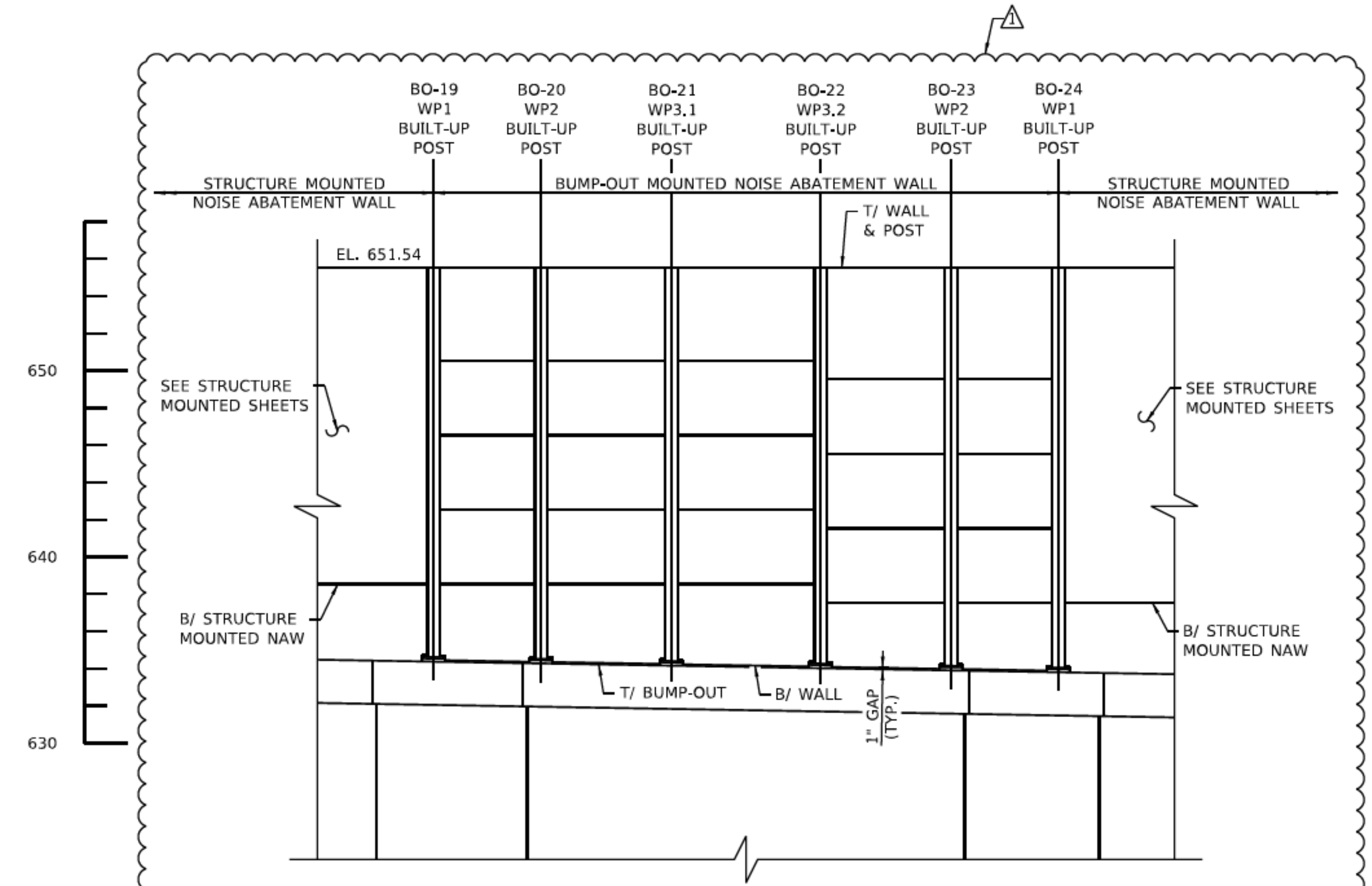
NWI-06

DRAWING NO.
1178 OF 1762

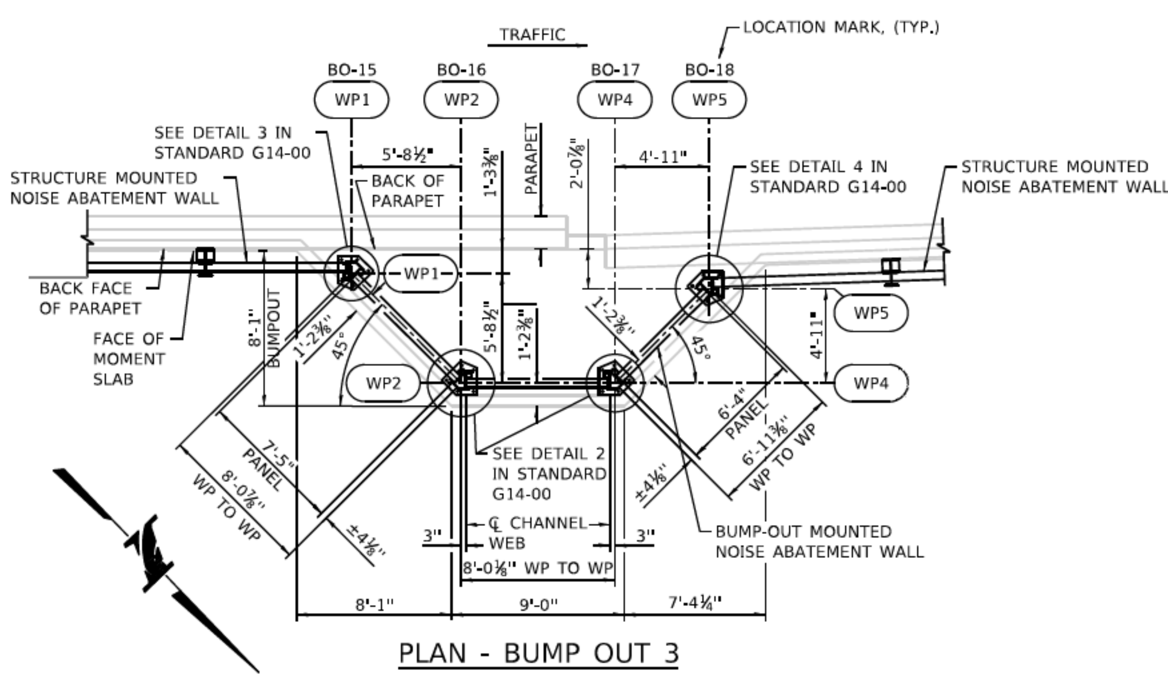
PLOT SCALE = 8.1667 ' / in.
PLOT DATE = 7/20/2020
PLOT TIME = 1:28:38 PM



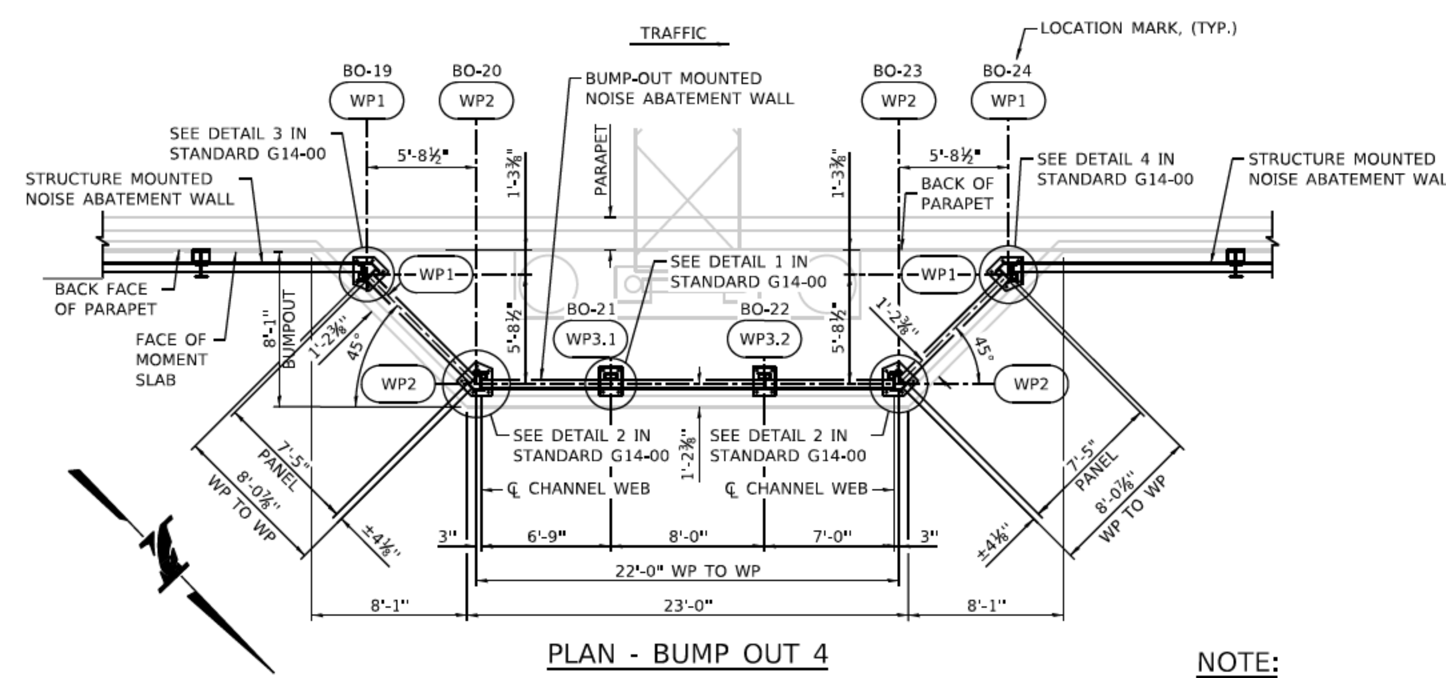
ELEVATION - BUMP-OUT 3



ELEVATION - BUMP-OUT 4



PLAN - BUMP OUT 3



PLAN - BUMP OUT 4

NOTE:

WORK POINTS (WP) ARE REFERENCED ALONG CENTERLINE OF NAW PANELS AND CENTERLINE OF POSTS. STATIONS AND OFFSETS ARE MEASURED AT WP.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
BUMP OUT PLAN & ELEVATION

NWI-08

DRAWING NO.
1180 OF 1762

STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
***SB04-1	4'-0"	11'-6"	5½"	10
***SB04.5-1	4'-6"	11'-6"	5½"	11
SC04-1	4'-0"	11'-6"	5½"	21
ST04-1	4'-0"	11'-6"	5½"	10
ST05-1	5'-0"	11'-6"	5½"	6
ST06-1	6'-0"	11'-6"	5½"	5
***SP8 SB04-1	4'-0"	9'-2"	5½"	2
***SP8 SB04.5-1	4'-6"	9'-2"	5½"	2
SP8 SC04-1	4'-0"	9'-2"	5½"	4
SP8 ST04-1	4'-0"	9'-2"	5½"	1
SP8 ST05-1	5'-0"	9'-2"	5½"	2
SP8 ST06-1	6'-0"	9'-2"	5½"	1
***SP9 SB04.5-1	4'-6"	6'-7"	5½"	3
SP9 SC04-1	4'-0"	6'-7"	5½"	3
SP9 ST04-1	4'-0"	6'-7"	5½"	2
SP9 ST05-1	5'-0"	6'-7"	5½"	1
***SP10 SB04-1	4'-0"	9'-1⅜"	5½"	3
SP10 SC04-1	4'-0"	9'-1⅜"	5½"	3
SP10 ST04-1	4'-0"	9'-1⅜"	5½"	1
SP10 ST05-1	5'-0"	9'-1⅜"	5½"	1
SP10 ST06-1	6'-0"	9'-1⅜"	5½"	1
***SP11 SB04-1	4'-0"	9'-10"	5½"	3
***SP11 SB04.5-1	4'-6"	9'-10"	5½"	1
SP11 SC04-1	4'-0"	9'-10"	5½"	4
SP11 ST04-1	4'-0"	9'-10"	5½"	1
SP11 ST05-1	5'-0"	9'-10"	5½"	2
SP11 ST06-1	6'-0"	9'-10"	5½"	1
***SP12 SB04.5-1	4'-0"	7'-3¾"	5½"	1
SP12 SC04-1	4'-0"	7'-3¾"	5½"	1
SP12 ST05-1	5'-0"	7'-3¾"	5½"	1

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G13 OR G14.

***CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G13 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

BUMP-OUT STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOC04-1	4'-0"	7'-5"	5½"	8
SP1 BOC04.5-1	4'-6"	7'-5"	5½"	1
SP1 BOT05-1	5'-0"	7'-5"	5½"	2
SP1 BOT08-1	8'-0"	7'-5"	5½"	1
SP2 BOC04-1	4'-0"	6'-4"	5½"	4
SP2 BOC04.5-1	4'-6"	6'-4"	5½"	2
SP2 BOT05-1	5'-0"	6'-4"	5½"	2
SP2 BOT06-1	6'-0"	6'-4"	5½"	1
SP3 BOC04-1	4'-0"	7'-10⅛"	5½"	8
SP3 BOC04.5-1	4'-6"	7'-10⅛"	5½"	2
SP3 BOT05-1	5'-0"	7'-10⅛"	5½"	4
SP3 BOT08-1	8'-0"	7'-10⅛"	5½"	2
SP4 BOC04-1	4'-0"	8'-4"	5½"	2
SP4 BOT06-1	6'-0"	8'-4"	5½"	1
SP5 BOC04-1	4'-0"	6'-11"	5½"	1
SP5 BOC04.5-1	4'-6"	6'-11"	5½"	1
SP5 BOT05-1	5'-0"	6'-11"	5½"	1
SP6 BOC04-1	4'-0"	7'-7⅛"	5½"	1
SP6 BOC04.5-1	4'-6"	7'-7⅛"	5½"	1
SP6 BOT05-1	5'-0"	7'-7⅛"	5½"	1

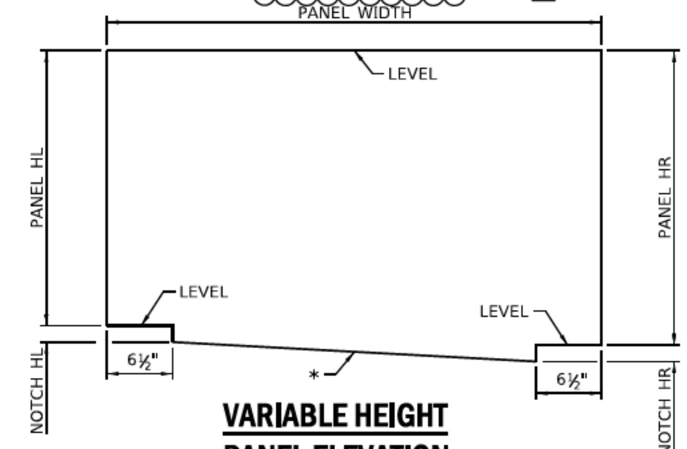
NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

* TO ACCOMMODATE VARYING SLAB GRADES, PANEL HEIGHTS WILL VARY TO FOLLOW SLOPE ON BUMP-OUT SLAB AND MAINTAIN A 1" GAP BETWEEN BOTTOM OF PANEL AND TOP OF SLAB.

BUMP-OUT STRUCTURE MOUNTED VARIABLE HEIGHT PANEL SCHEDULE

PANEL MARK	PANEL HL	NOTCH HL	PANEL HR	NOTCH HR	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOBVA-1	3'-7"	⅞"	3'-8¾"	1⅛"	7'-6⅛"	5½"	1
SP3 BOBVB-1	3'-8¾"	⅞"	3'-10⅜"	1⅛"	7'-10⅛"	5½"	1
SP3 BOBVC-1	3'-10⅜"	⅞"	4'-0"	1⅛"	7'-10"	5½"	1
SP3 BOBVD-1	4'-0"	⅞"	4'-1⅝"	1⅛"	7'-10"	5½"	1
SP3 BOBVE-1	4'-1⅝"	⅞"	4'-3⅜"	1⅛"	7'-10"	5½"	1
SP4 BOBVF-1	3'-3⅜"	⅞"	3'-4⅜"	1⅛"	8'-4"	5½"	1
SP2 BOBVG-1	3'-4⅜"	1"	3'-4⅜"	1"	6'-4⅝"	5½"	1
SP1 BOBVH-1	3'-11¾"	⅞"	4'-1¾"	1⅛"	7'-6⅛"	5½"	1
SP3 BOBVI-1	4'-1¾"	⅞"	4'-3½"	1⅛"	7'-10⅛"	5½"	1
SP3 BOBVJ-1	4'-3½"	⅞"	4'-5¼"	1⅛"	7'-10"	5½"	1
SP5 BOBVK-1	3'-5¼"	1"	3'-6"	1"	6'-11"	5½"	1
SP2 BOBVL-1	3'-6"	1"	3'-6"	1"	6'-4⅝"	5½"	1
SP1 BOBVM-1	3'-5"	⅞"	3'-6⅞"	1⅛"	7'-6⅛"	5½"	1
SP6 BOBVN-1	3'-0⅞"	⅞"	3'-1¾"	1⅛"	7'-7⅛"	5½"	1
SP2 BOBVO-1	3'-1¾"	1"	3'-1¾"	1"	6'-4⅝"	5½"	1

INCREASE STATIONING



VARIABLE HEIGHT PANEL ELEVATION BUMP-OUT MOUNTED

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

LIST OF ABBREVIATIONS

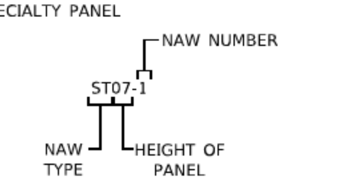
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℞	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
ℙ	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

GENERAL NOTES

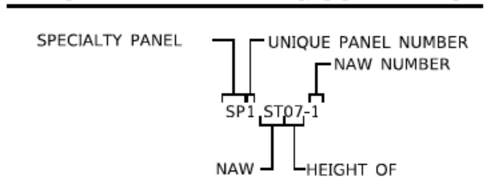
1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL
ST = STRUCTURE MOUNTED TOP PANEL
SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL
BOTFV = BUMP-OUT STRUCTURE MOUNTED FULL HEIGHT PANEL (VARIABLE HEIGHT)
BOT = BUMP-OUT STRUCTURE MOUNTED TOP PANEL
BOC = BUMP-OUT STRUCTURE MOUNTED CENTER PANEL
BOBV = BUMP-OUT STRUCTURE MOUNTED BOTTOM PANEL (VARIABLE HEIGHT)
SP = SPECIALTY PANEL



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
PANEL SCHEDULE

NWI-09
DRAWING NO.
1181 OF 1762

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-01	01	994+29.64	99.27	671.54	657.41	658.04	W8x48	14'-1½"	334	678	1,012
S1-02	02	994+41.30	99.27	671.54	657.27	657.54	W8x48	14'-3¼"	334	686	1,020
S1-03	03	994+52.97	99.27	671.54	657.11	657.54	W8x48	14'-5⅛"	334	693	1,027
S1-04	04	994+64.64	99.27	669.54	656.96	657.54	W8x48	14'-7"	334	700	1,034
S1-05	05	994+76.30	99.27	669.54	656.80	657.04	W8x48	12'-8⅞"	334	612	946
S1-06	06	994+87.97	99.27	669.54	656.63	657.04	W8x48	12'-10⅞"	334	620	954
S1-07	07	994+99.64	99.27	669.54	656.46	657.04	W8x48	13'-1"	326	628	954
S1-08	08	995+08.97	99.27	669.54	656.32	656.54	W8x48	13'-2⅝"	334	635	969
S1-09	09	995+20.64	99.27	669.54	656.13	656.54	W8x48	13'-4⅞"	317	644	961
BO-01	10	995+27.52	99.49	669.54	652.87	VARIES	BUILT UP	16'-8"	206	965	1,171
BO-02	11	995+33.23	105.20	669.54	652.72	VARIES	BUILT UP	16'-9¾"	206	973	1,179
BO-03	12	995+41.49	105.20	669.54	652.58	VARIES	W10x45	16'-11⅜"	147	763	910
BO-04	13	995+49.49	105.20	669.54	652.45	VARIES	W10x45	17'-1"	147	769	916
BO-05	14	995+57.49	105.20	669.54	652.31	VARIES	W10x45	17'-2⅝"	147	776	923
BO-06	15	995+65.49	105.20	669.54	652.17	VARIES	W10x45	17'-4⅜"	147	782	929
BO-07	16	995+74.24	105.20	669.54	652.09	VARIES	BUILT UP	17'-5⅜"	206	1,010	1,216
BO-08	17	995+79.15	100.29	669.54	652.09	VARIES	BUILT UP	17'-5⅜"	206	1,010	1,216
S1-10	18	995+88.62	99.78	667.54	655.01	655.54	W8x48	14'-6⅜"	326	698	1,024
S1-11	19	995+97.90	99.47	667.54	654.82	655.04	W8x48	12'-8⅝"	334	611	945
S1-12	20	996+09.57	99.27	667.54	654.59	655.04	W8x48	12'-11⅜"	317	622	939
S1-13	21	996+16.32	99.27	667.54	654.47	655.04	W8x48	13'-0⅞"	334	628	962
S1-14	22	996+27.99	99.27	667.54	654.25	655.04	W8x48	13'-3⅜"	318	638	956
BO-09	23	996+34.94	99.49	667.54	650.97	VARIES	BUILT UP	16'-6¾"	206	959	1,165
BO-10	24	996+40.65	105.20	667.54	650.81	VARIES	BUILT UP	16'-8¾"	206	968	1,174
BO-11	25	996+48.91	105.20	667.54	650.66	VARIES	W10x45	16'-10½"	147	760	907
BO-12	26	996+56.91	105.20	667.54	650.51	VARIES	W10x45	17'-0¼"	147	767	914
BO-13	27	996+64.24	105.20	667.54	650.45	VARIES	BUILT UP	17'-1"	206	989	1,195
BO-14	28	996+69.15	100.29	667.54	650.45	VARIES	BUILT UP	17'-1"	206	989	1,195
S1-15	29	996+78.62	99.78	667.54	653.37	653.54	W8x48	14'-2"	326	681	1,007
S1-16	30	996+87.90	99.47	667.54	653.17	653.54	W8x48	14'-4⅜"	334	690	1,024
S1-17	31	996+99.57	99.27	665.54	652.94	653.54	W8x48	14'-7⅛"	328	701	1,029
S1-18	32	997+09.57	99.27	665.54	652.76	653.04	W8x48	12'-9¼"	334	614	948
S1-19	33	997+21.23	99.27	665.54	652.55	653.04	W8x48	12'-11⅞"	334	624	958
S1-20	34	997+32.90	99.27	665.54	652.34	652.54	W8x48	13'-2⅜"	320	634	954
BO-15	35	997+40.51	99.49	665.54	649.04	VARIES	BUILT UP	16'-6"	206	955	1,161
BO-16	36	997+46.22	105.20	665.54	648.88	VARIES	BUILT UP	16'-7⅞"	206	964	1,170
BO-17	37	997+54.23	105.20	665.54	648.81	VARIES	BUILT UP	16'-8¾"	206	968	1,174
BO-18	38	997+59.14	100.29	665.54	648.81	VARIES	BUILT UP	16'-8¾"	206	968	1,174
S1-21	39	997+68.62	99.78	665.54	651.72	652.04	W8x48	13'-9¾"	326	664	990
S1-22	40	997+77.90	99.47	665.54	651.53	652.04	W8x48	14'-0⅛"	334	673	1,007
S1-23	41	997+89.57	99.27	665.54	651.30	651.54	W8x48	14'-2⅞"	328	684	1,012
S1-24	42	997+99.57	99.27	665.54	651.12	651.54	W8x48	14'-5"	334	693	1,027
S1-25	43	998+11.23	99.27	663.54	650.90	651.04	W8x48	14'-7⅝"	334	703	1,037
S1-26	44	998+22.90	99.27	663.54	650.69	651.04	W8x48	12'-10⅛"	334	617	951
S1-27	45	998+34.57	99.27	663.54	650.48	651.04	W8x48	13'-0¾"	334	627	961
S1-28	46	998+46.23	99.27	663.54	650.26	650.54	W8x48	13'-3¼"	334	638	972
S1-29	47	998+57.90	99.27	663.54	650.05	650.54	W8x48	13'-5⅞"	328	648	976
S1-30	48	998+67.90	99.27	663.54	649.87	650.04	W8x48	13'-8"	334	657	991
S1-31	49	998+79.57	99.27	663.54	649.66	650.04	W8x48	13'-10⅝"	328	667	995
S1-32	50	998+89.57	99.27	663.54	649.47	650.04	W8x48	14'-0¾"	334	676	1,010
S1-33	51	999+01.23	99.27	663.54	649.26	649.54	W8x48	14'-3⅜"	334	686	1,020
S1-34	52	999+12.90	99.27	663.54	649.05	649.54	W8x48	14'-5⅞"	334	696	1,030

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

	PAY ITEM NO.	ITEM	UNIT	TOTAL
	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ. FT.	6,907
*	N/A	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED, HEIGHT >18'	SQ. FT.	17,997

*QUANTITY PROVIDED FOR INFORMATION ONLY. PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED >18' WILL BE PAID IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION". DETAILS TO BE ISSUED TO SUCCESSFUL BIDDER BY CONSTRUCTION REVISION.

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

NAW NUMBER
S1-01
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
POST SCHEDULE

NWI-10
DRAWING NO.
1182 OF 1762

PLOT TIME = 1:21:16 PM
PLOT DATE = 7/20/2020
PLOT SCALE = 8.1667 ' / in.

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

PLOT TIME = 1:21:25 PM
PLOT DATE = 7/20/2020
PLOT SCALE = 0.1667 ' / in.
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DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,NB
POST SCHEDULE

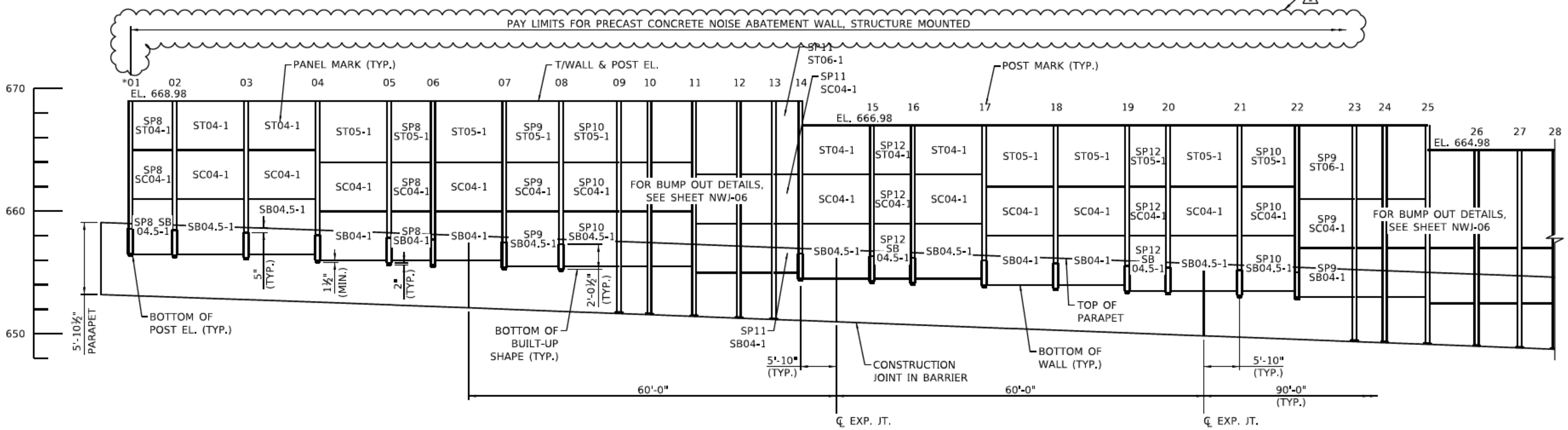
NWI-11
DRAWING NO.
1183 OF 1762

BENCHMARK: BM25: SET MAG NAIL IN GUARDRAIL POST OF SBL APPROX 600' SE OF MILE MARKER 19 (85TH PL), NEXT TO SIGN FOR HICKORY HILLS/OAK LAWN 2ND RT

EXISTING STRUCTURE: NONE

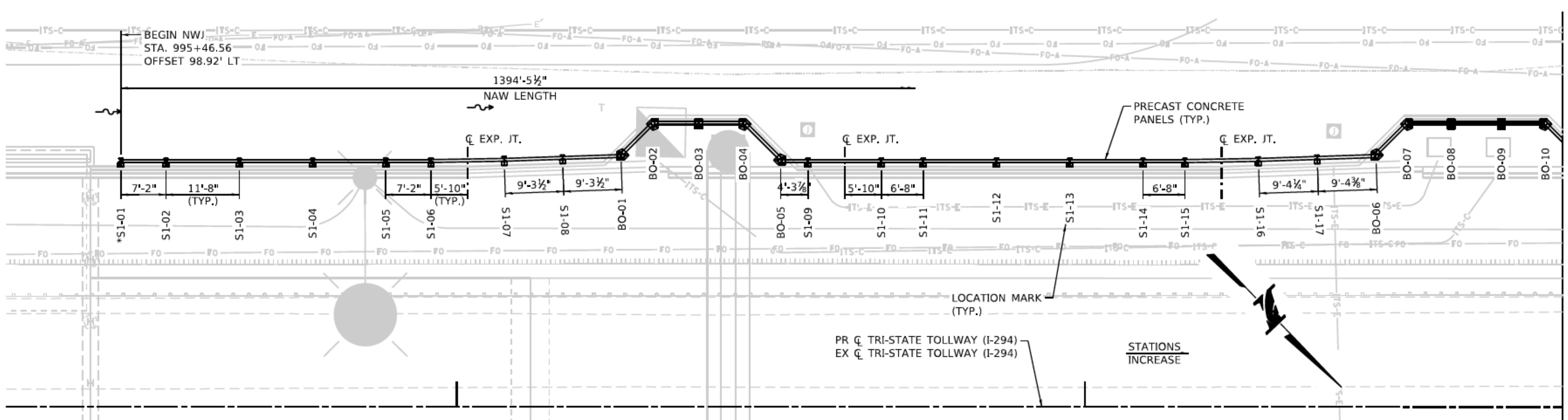
SALVAGE: NONE

PROPOSED STRUCTURE: STRUCTURE MOUNTED NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY STRUCTUAL MEMBER ATTACHED TO BACK OF PARAPET ALONG WESTERN SHOULDER OF SB I-294 IS 1394'-5½" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

* FOR DETAILS OF END POST, SEE PLAN AT TRANSITION TO CONCRETE NAW ON SHEET NWN-01 OF TS18.60N,SB & TS18.70N,NB SHEETS.

HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

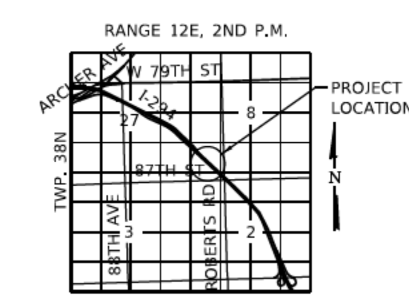
INDEX OF SHEETS

NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWJ-09.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

PROPOSED LUMINAIRE
EXISTING ELECTRIC LINE
PROPOSED STORM SEWER
PROPOSED CATCH BASIN
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
ITS COMMUNICATIONS CONDUIT
ITS ELECTRICAL CONDUIT
EXISTING NOISEWALL
PROPOSED NOISEWALL
PROPOSED DRILLED SHAFT
EXISTING GUARDRAIL
EXISTING VEGETATION
EDGE OF WATER



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 995+46.56 TO 1009+18.00
NOISE ABATEMENT WALL TS18.80N,SB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

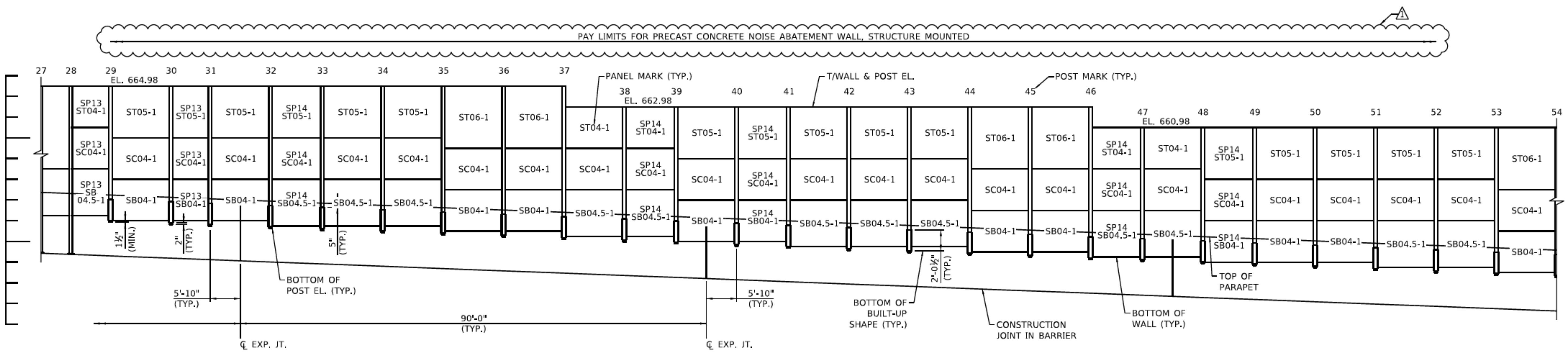
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
GENERAL PLAN & ELEVATION

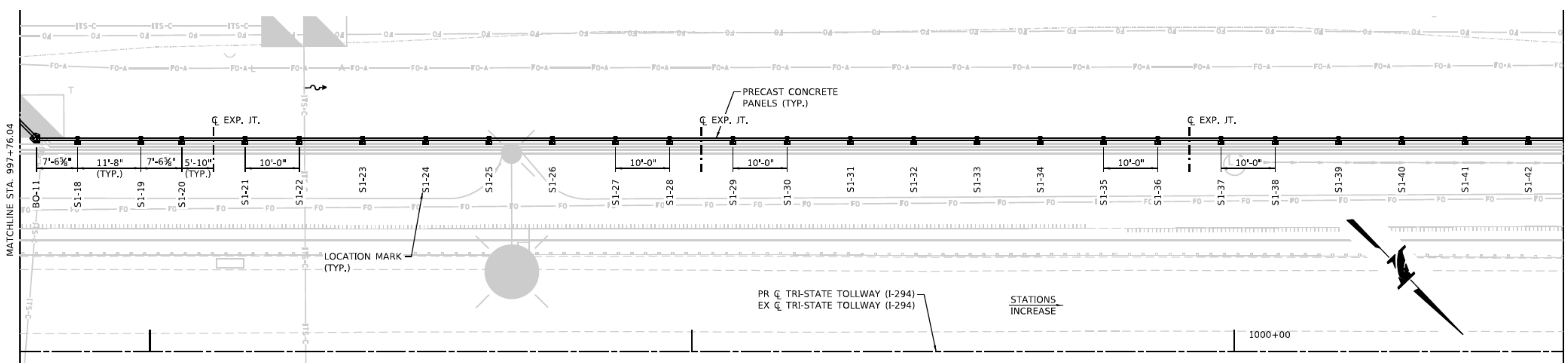
NWJ-01
DRAWING NO. 1184 OF 1762

PLOT SCALE = 8.1667 '/ in.
PLOT TIME = 11:21:42 PM
PLOT DATE = 7/20/2020



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

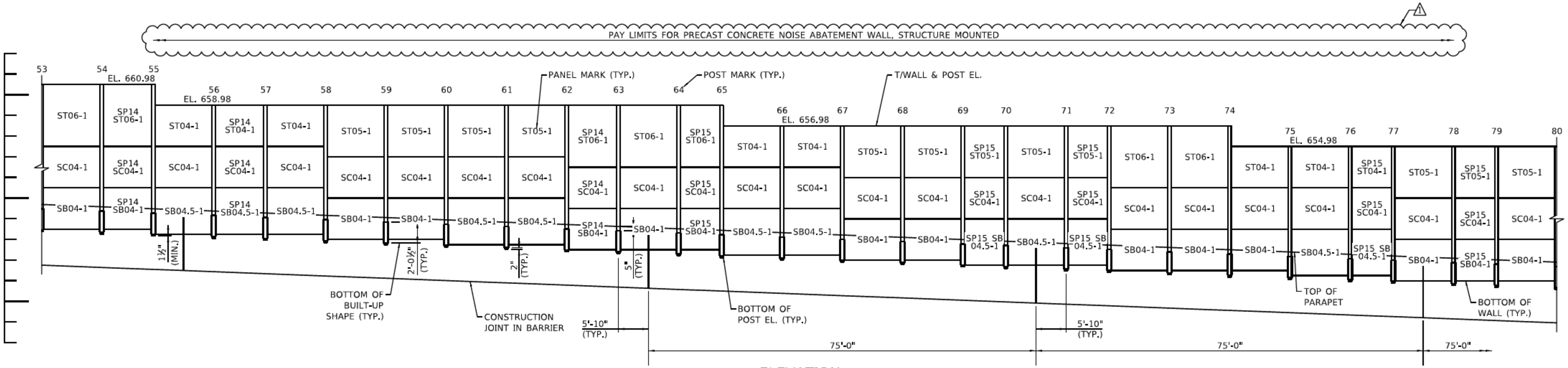
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

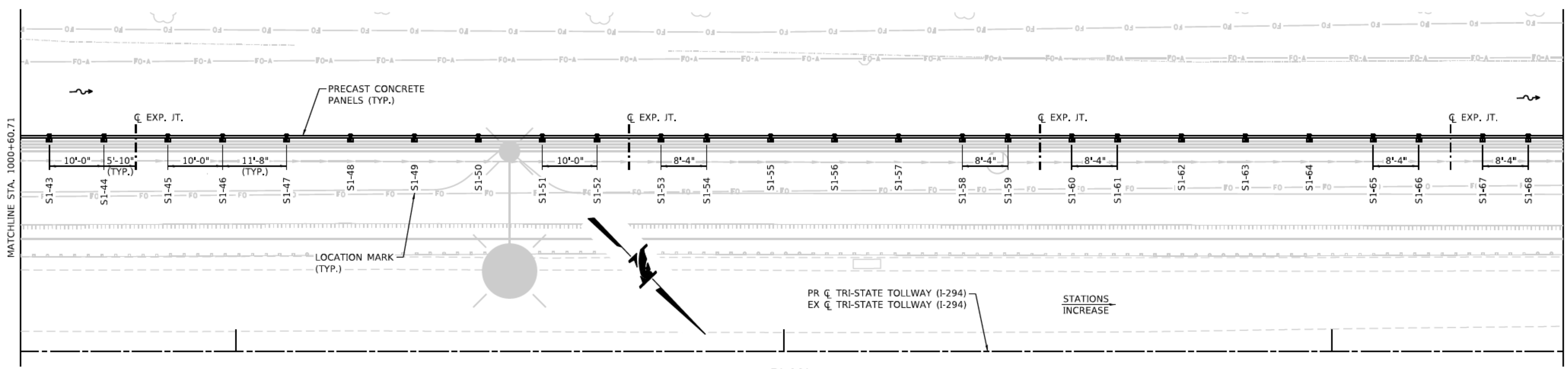
NOISE ABATEMENT WALL TS18.80N,SB
GENERAL PLAN & ELEVATION

NWJ-02
DRAWING NO.
1185 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design
311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

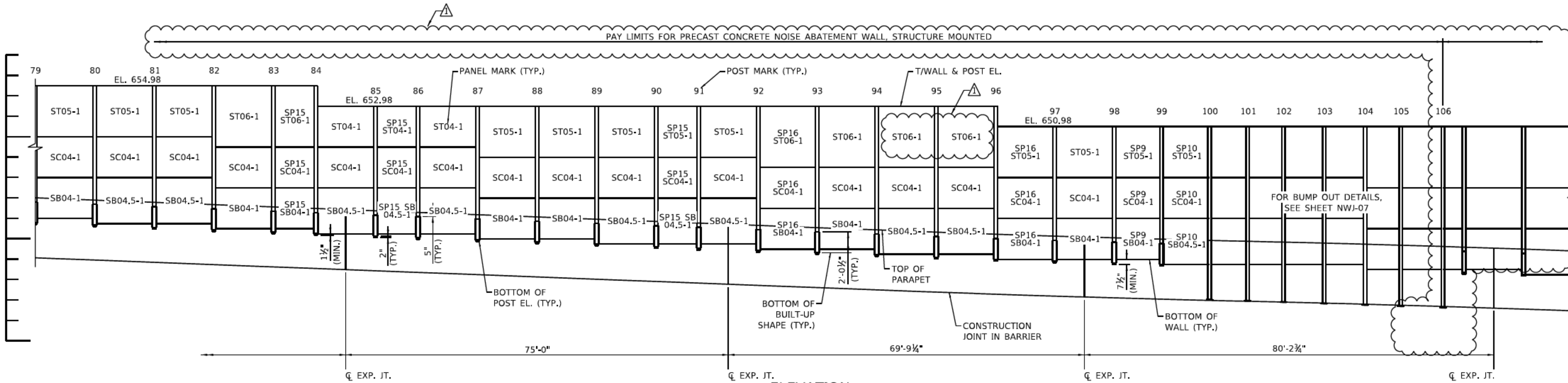
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
GENERAL PLAN & ELEVATION

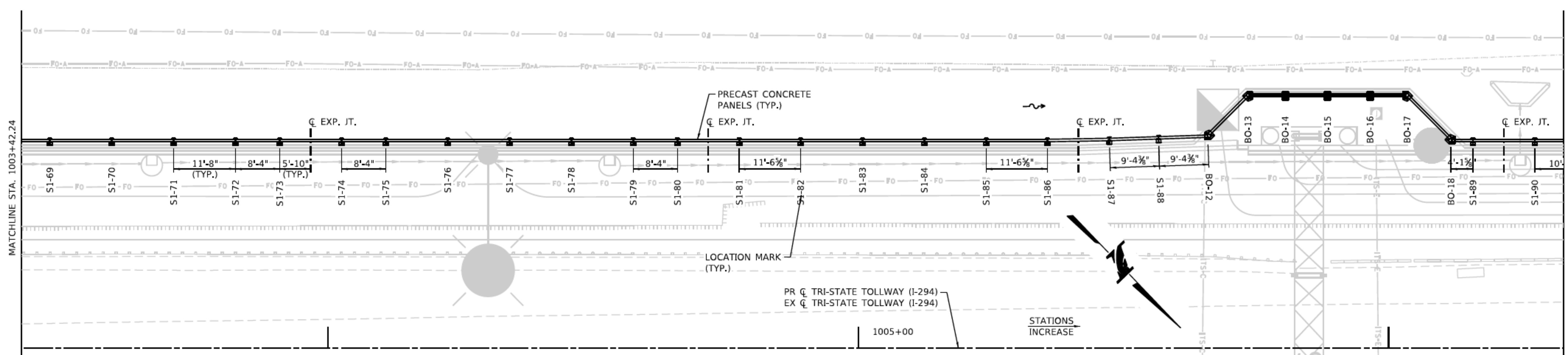
NWJ-03

DRAWING NO. 1186 OF 1762



ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLAN

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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Civil Engineering Design

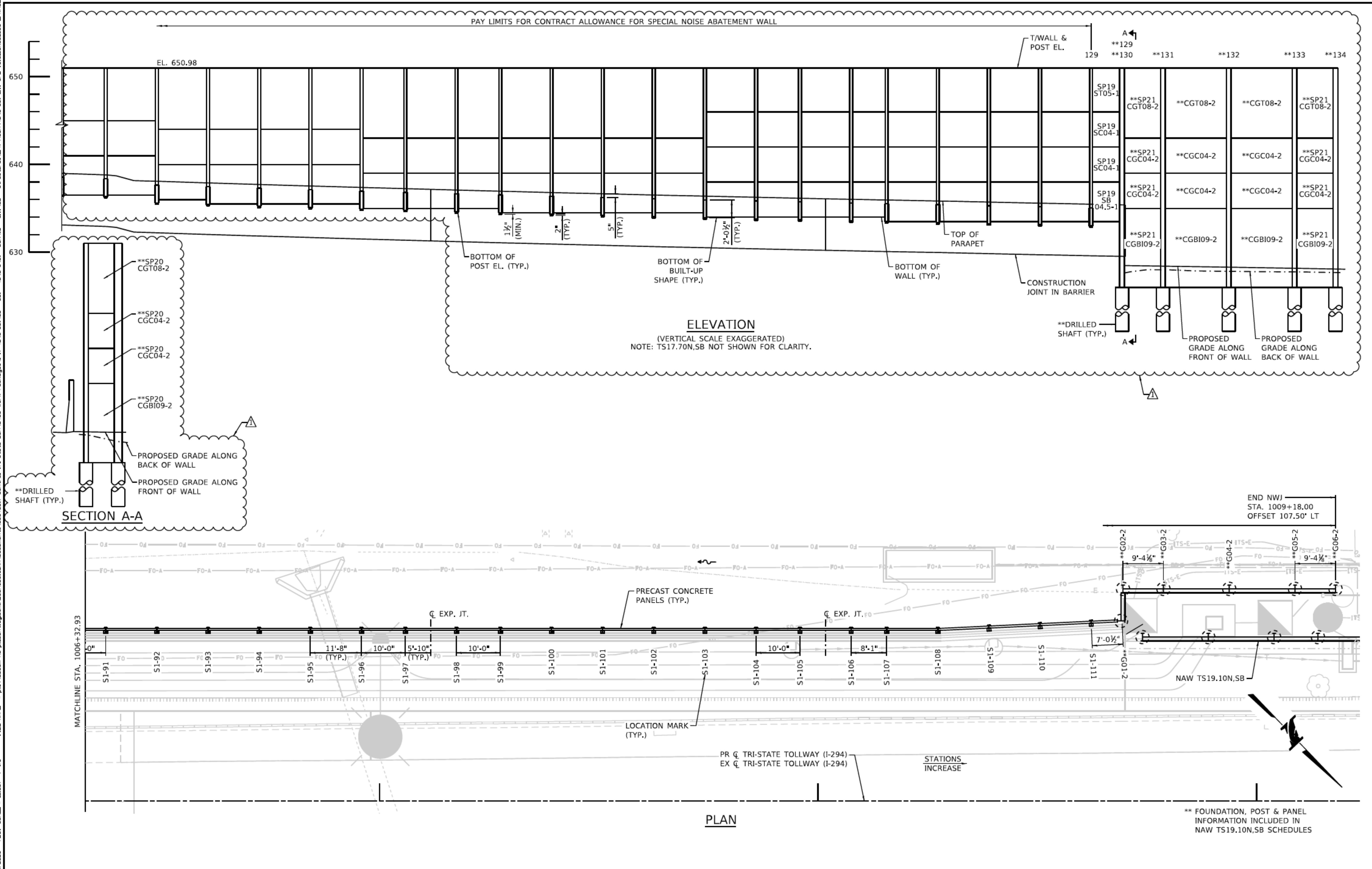
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
GENERAL PLAN & ELEVATION

NWJ-04
DRAWING NO.
1187 OF 1762



PAY LIMITS FOR CONTRACT ALLOWANCE FOR SPECIAL NOISE ABATEMENT WALL
EL. 650.98
T/WALL & POST EL.
129
**129
**130
**131
**132
**133
**134
650
640
630
SP19 ST05-1
SP19 SC04-1
SP19 SC04-1
SP19 SB 04.5-1
**SP21 CGT08-2
**CGT08-2
**SP21 CGC04-2
**CGC04-2
**SP21 CGBI09-2
**CGBI09-2
1½" (MIN.)
2" (TYP.)
5" (TYP.)
2'-0½" (TYP.)
BOTTOM OF POST EL. (TYP.)
BOTTOM OF BUILT-UP SHAPE (TYP.)
TOP OF PARAPET
BOTTOM OF WALL (TYP.)
CONSTRUCTION JOINT IN BARRIER
**DRILLED SHAFT (TYP.)
PROPOSED GRADE ALONG FRONT OF WALL
PROPOSED GRADE ALONG BACK OF WALL
A
ELEVATION
(VERTICAL SCALE EXAGGERATED)
NOTE: TS17.70N,SB NOT SHOWN FOR CLARITY.
**SP20 CGT08-2
**SP20 CGC04-2
**SP20 CGC04-2
**SP20 CGBI09-2
PROPOSED GRADE ALONG BACK OF WALL
PROPOSED GRADE ALONG FRONT OF WALL
**DRILLED SHAFT (TYP.)
SECTION A-A
END NWJ
STA. 1009+18.00
OFFSET 107.50' LT
PRECAST CONCRETE PANELS (TYP.)
℄ EXP. JT.
℄ EXP. JT.
11'-8" (TYP.)
10'-0"
5'-10" (TYP.)
10'-0"
10'-0"
8'-1"
7'-0½"
9'-4⅛"
9'-4⅛"
S1-91
S1-92
S1-93
S1-94
S1-95
S1-96
S1-97
S1-98
S1-99
S1-100
S1-101
S1-102
S1-103
S1-104
S1-105
S1-106
S1-107
S1-108
S1-109
S1-110
S1-111
**G01-2
**G02-2
**G03-2
**G04-2
**G05-2
**G06-2
MATCHLINE STA. 1006+32.93
NAW TS19.10N,SB
LOCATION MARK (TYP.)
PR ℄ TRI-STATE TOLLWAY (I-294)
EX ℄ TRI-STATE TOLLWAY (I-294)
STATIONS INCREASE
PLAN
** FOUNDATION, POST & PANEL INFORMATION INCLUDED IN NAW TS19.10N,SB SCHEDULES

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
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Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

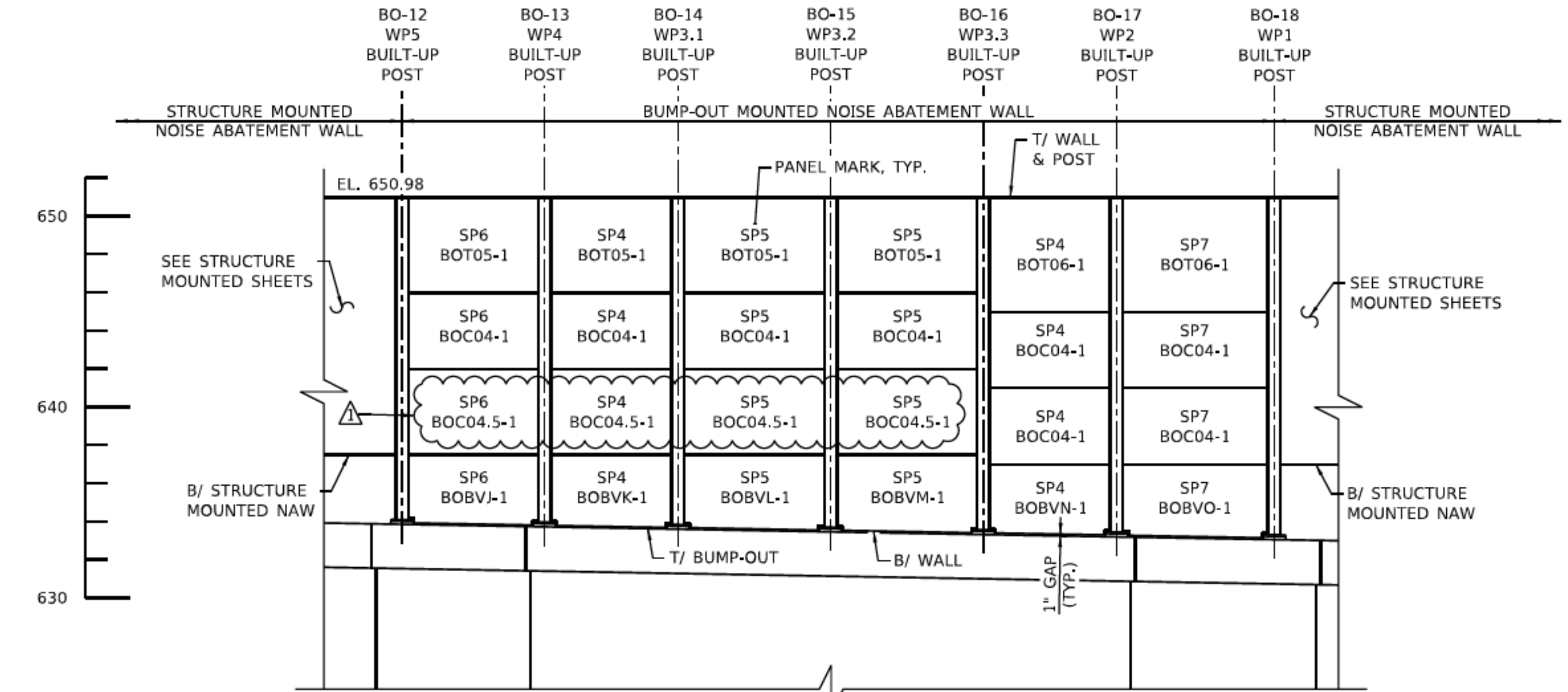
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

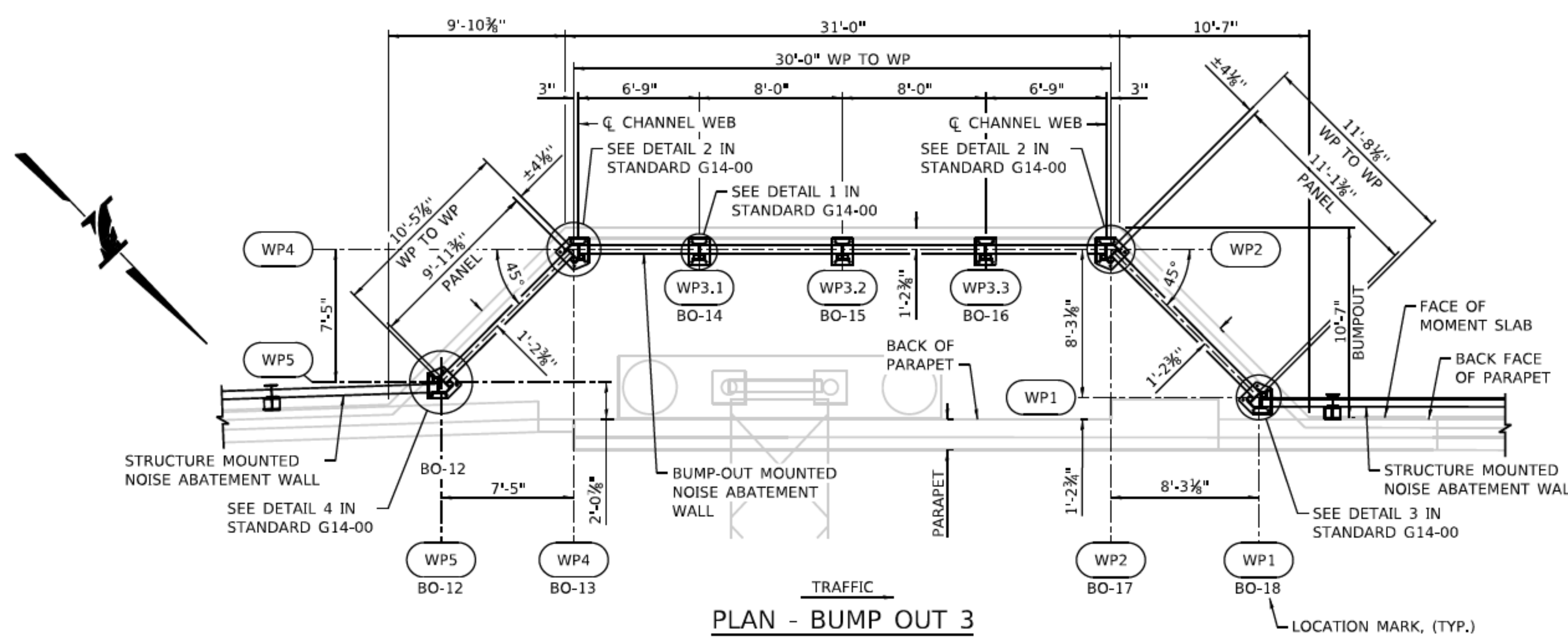
CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
GENERAL PLAN & ELEVATION

NWJ-05
DRAWING NO.
1188 OF 1762



ELEVATION - BUMP-OUT 3



PLAN - BUMP OUT 3

NOTE:
WORK POINTS (WP) ARE REFERENCED ALONG CENTERLINE OF NAW PANELS AND CENTERLINE OF POSTS. STATIONS AND OFFSETS ARE MEASURED AT WP.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design — 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
BUMP OUT PLAN & ELEVATION

NWJ-07
DRAWING NO.
1190 OF 1762

PLOT TIME = 1:22:09 PM
PLOT DATE = 7/20/2020
PLOT SCALE = 8.1667 '/ in.

STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
***SB04-1	4'-0"	11'-6"	5½"	29
***SB04.5-1	4'-6"	11'-6"	5½"	30
SC04-1	4'-0"	11'-6"	5½"	60
ST04-1	4'-0"	11'-6"	5½"	14
ST05-1	5'-0"	11'-6"	5½"	33
ST06-1	6'-0"	11'-6"	5½"	12
***SP8 SB04-1	4'-0"	7'-0"	5½"	1
***SP8 SB04.5-1	4'-6"	7'-0"	5½"	1
SP8 SC04-1	4'-0"	7'-0"	5½"	2
SP8 ST04-1	4'-0"	7'-0"	5½"	1
SP8 ST05-1	5'-0"	7'-0"	5½"	1
***SP9 SB04-1	4'-0"	9'-1½"	5½"	2
***SP9 SB04.5-1	4'-6"	9'-1½"	5½"	1
SP9 SC04-1	4'-0"	9'-1½"	5½"	3
SP9 ST05-1	5'-0"	9'-1½"	5½"	2
SP9 ST06-1	6'-0"	9'-1½"	5½"	1
***SP10 SB04.5-1	4'-6"	9'-2¼"	5½"	3
SP10 SC04-1	4'-0"	9'-2¼"	5½"	3
SP10 ST05-1	5'-0"	9'-2¼"	5½"	3
***SP11 SB04-1	4'-0"	4'-0⅞"	5½"	1
SP11 SC04-1	4'-0"	4'-0⅞"	5½"	1
SP11 ST06-1	6'-0"	4'-0⅞"	5½"	1
***SP12 SB04.5-1	4'-6"	6'-6"	5½"	2
SP12 SC04-1	4'-0"	6'-6"	5½"	2
SP12 ST04-1	4'-0"	6'-6"	5½"	1
SP12 ST05-1	5'-0"	6'-6"	5½"	1
***SP13 SB04-1	4'-0"	7'-5¼"	5½"	1
***SP13 SB04.5-1	4'-6"	7'-5¼"	5½"	1
SP13 SC04-1	4'-0"	7'-5¼"	5½"	2
SP13 ST04-1	4'-0"	7'-5¼"	5½"	1
SP13 ST05-1	5'-0"	7'-5¼"	5½"	1
***SP14 SB04-1	4'-0"	9'-10"	5½"	4
***SP14 SB04.5-1	4'-6"	9'-10"	5½"	4
SP14 SC04-1	4'-0"	9'-10"	5½"	8
SP14 ST04-1	4'-0"	9'-10"	5½"	3
SP14 ST05-1	5'-0"	9'-10"	5½"	3
SP14 ST06-1	6'-0"	9'-10"	5½"	2
***SP15 SB04-1	4'-0"	8'-2"	5½"	3
***SP15 SB04.5-1	4'-6"	8'-2"	5½"	5
SP15 SC04-1	4'-0"	8'-2"	5½"	8
SP15 ST04-1	4'-0"	8'-2"	5½"	2
SP15 ST05-1	5'-0"	8'-2"	5½"	4
SP15 ST06-1	6'-0"	8'-2"	5½"	2
***SP16 SB04-1	4'-0"	11'-4⅝"	5½"	2
SP16 SC04-1	4'-0"	11'-4⅝"	5½"	2
SP16 ST05-1	5'-0"	11'-4⅝"	5½"	1
SP16 ST06-1	6'-0"	11'-4⅝"	5½"	1
***SP19 SB04.5-1	4'-6"	5'-9⅛"	5½"	1
SP19 SC04-1	4'-0"	5'-9⅛"	5½"	2
SP19 ST05-1	5'-0"	5'-9⅛"	5½"	1

⚠1

BUMP-OUT STRUCTURE MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP1 BOC04-1	4'-0"	7'-5"	5½"	2
SP1 BOC04.5-1	4'-6"	7'-5"	5½"	1
SP1 BOT06-1	6'-0"	7'-5"	5½"	1
SP1 BOT08-1	8'-0"	7'-5"	5½"	1
SP2 BOC04-1	4'-0"	6'-4"	5½"	3
SP2 BOC04.5-1	4'-6"	6'-4"	5½"	1
SP2 BOT05-1	5'-0"	6'-4"	5½"	1
SP2 BOT06-1	6'-0"	6'-4"	5½"	1
SP3 BOC04-1	4'-0"	6'-10½"	5½"	3
SP3 BOC04.5-1	4'-6"	6'-10½"	5½"	1
SP3 BOT05-1	5'-0"	6'-10½"	5½"	1
SP3 BOT06-1	6'-0"	6'-10½"	5½"	1
SP4 BOC04-1	4'-0"	6'-7"	5½"	5
SP4 BOC04.5-1	4'-6"	6'-7"	5½"	2
SP4 BOT05-1	5'-0"	6'-7"	5½"	1
SP4 BOT06-1	6'-0"	6'-7"	5½"	2
SP4 BOT08-1	8'-0"	6'-7"	5½"	1
SP5 BOC04-1	4'-0"	7'-10"	5½"	2
SP5 BOC04.5-1	4'-6"	7'-10"	5½"	3
SP5 BOT05-1	5'-0"	7'-10"	5½"	2
SP5 BOT08-1	8'-0"	7'-10"	5½"	1
SP6 BOC04-1	4'-0"	9'-11⅛"	5½"	1
SP6 BOC04.5-1	4'-6"	9'-11⅛"	5½"	1
SP6 BOT05-1	5'-0"	9'-11⅛"	5½"	1
SP7 BOC04-1	4'-0"	11'-1½"	5½"	2
SP7 BOT06-1	6'-0"	11'-1½"	5½"	1

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 OR G14.

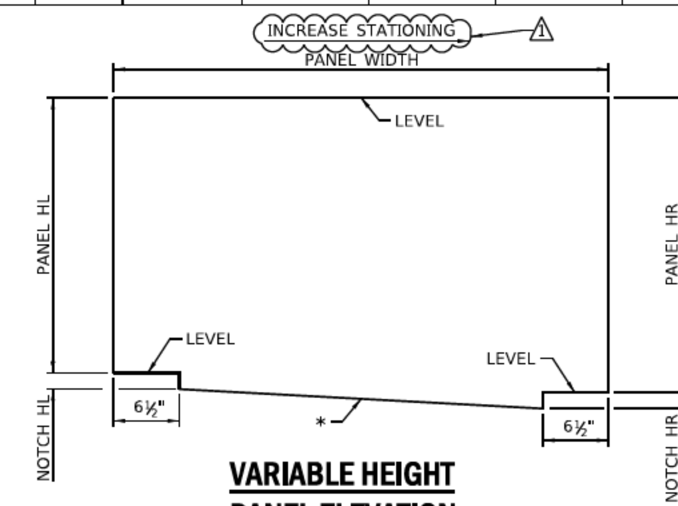
* TO ACCOMMODATE VARYING SLAB GRADES, PANEL HEIGHTS WILL VARY TO FOLLOW SLOPE ON BUMP-OUT SLAB AND MAINTAIN A 1" GAP BETWEEN BOTTOM OF PANEL AND TOP OF SLAB.

*** CONTRACTOR MAY INCREASE BOTTOM PANEL HEIGHTS AND USE UP TO AN 8FT (NON-STANDARD) MAXIMUM HEIGHT PANEL. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G13 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

⚠1

BUMP-OUT STRUCTURE MOUNTED VARIABLE HEIGHT PANEL SCHEDULE

PANEL MARK	PANEL HL	NOTCH HL	PANEL HR	NOTCH HR	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP2 BOBVA-1	3'-7¼"	⅞"	3'-8⅞"	1⅛"	6'-4⅝"	5½"	1
SP3 BOBVB-1	3'-8⅞"	¾"	3'-11⅜"	1¼"	6'-10½"	5½"	1
SP3 BOBVC-1	3'-5⅜"	⅞"	3'-7"	1⅛"	6'-10½"	5½"	1
SP1 BOBVD-1	3'-7"	1"	3'-7"	1"	7'-6⅛"	5½"	1
SP2 BOBVE-1	3'-4¾"	⅞"	3'-6¼"	1⅛"	6'-4⅝"	5½"	1
SP4 BOBVF-1	3'-6¼"	¾"	3'-8¾"	1¼"	6'-7"	5½"	1
SP5 BOBVG-1	3'-2¾"	⅞"	3'-4⅝"	1⅛"	7'-10"	5½"	1
SP4 BOBVH-1	3'-4⅝"	⅞"	3'-6⅛"	1⅛"	6'-7"	5½"	1
SP1 BOBVI-1	3'-6⅛"	1"	3'-6⅛"	1"	7'-6⅛"	5½"	1
SP6 BOBVJ-1	3'-5¾"	⅞"	3'-8⅞"	1⅛"	9'-11⅛"	5½"	1
SP4 BOBVK-1	3'-8⅞"	⅞"	3'-10¼"	1⅛"	6'-7"	5½"	1
SP5 BOBVL-1	3'-10¼"	⅞"	3'-11⅞"	1⅛"	7'-10"	5½"	1
SP5 BOBVM-1	3'-11⅞"	⅞"	4'-1⅝"	1⅛"	7'-10"	5½"	1
SP4 BOBVN-1	3'-7⅝"	⅞"	3'-9⅛"	1⅛"	6'-7"	5½"	1
SP7 BOBVO-1	3'-9⅛"	1"	3'-9⅛"	1"	11'-1½"	5½"	1



VARIABLE HEIGHT PANEL ELEVATION BUMP-OUT MOUNTED

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020. ⚠1

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020. ⚠1

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

LIST OF ABBREVIATIONS

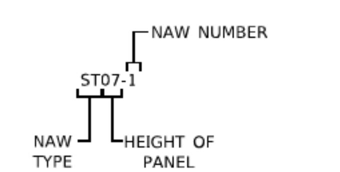
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
℄	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
ℙ	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

GENERAL NOTES

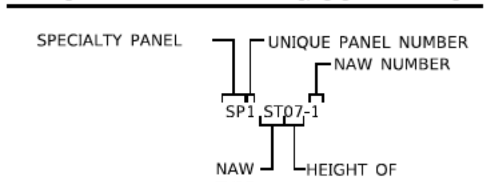
1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

NAW TYPE

STF = STRUCTURE MOUNTED FULL HEIGHT PANEL
ST = STRUCTURE MOUNTED TOP PANEL
SC = STRUCTURE MOUNTED CENTER PANEL
SB = STRUCTURE MOUNTED BOTTOM PANEL
BOTFV = BUMP-OUT STRUCTURE MOUNTED FULL HEIGHT PANEL (VARIABLE HEIGHT)
BOT = BUMP-OUT STRUCTURE MOUNTED TOP PANEL
BOC = BUMP-OUT STRUCTURE MOUNTED CENTER PANEL
BOBV = BUMP-OUT STRUCTURE MOUNTED BOTTOM PANEL (VARIABLE HEIGHT)
SP = SPECIALTY PANEL



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

DRAWN BY CMC	DATE 05/26/2020	EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY, 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	CONTRACT NO. I-20-4517
CHECKED BY CDL	DATE 05/26/2020			NOISE ABATEMENT WALL TS18.80N,SB PANEL SCHEDULE

REVISIONS

NO.	DATE	DESCRIPTION
⚠1	7/21/2020	ADDENDUM NO. 1

NWJ-08

DRAWING NO. 1191 OF 1762

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-01	01	995+46.57	-99.27	668.98	656.36	656.48	W8x48	12'-7½"	319	606	925
S1-02	02	995+53.73	-99.27	668.98	656.24	656.48	W8x48	12'-9"	334	612	946
S1-03	03	995+65.40	-99.27	668.98	656.03	656.48	W8x48	12'-11⅜"	334	622	956
S1-04	04	995+77.07	-99.27	668.98	655.82	655.98	W8x48	13'-1⅞"	334	632	966
S1-05	05	995+88.73	-99.27	668.98	655.61	655.98	W8x48	13'-4½"	319	642	961
S1-06	06	995+95.90	-99.27	668.98	655.47	655.98	W8x48	13'-6⅛"	334	649	983
S1-07	07	996+07.56	-99.47	668.98	655.26	655.48	W8x48	13'-8⅝"	326	659	985
S1-08	08	996+16.84	-99.78	668.98	655.11	655.48	W8x48	13'-10½"	326	666	992
BO-01	09	996+26.32	-100.29	668.98	651.79	VARIES	BUILT UP	17'-2¼"	206	995	1,201
BO-02	10	996+31.23	-105.20	668.98	651.66	VARIES	BUILT UP	17'-3⅞"	206	1,002	1,208
BO-03	11	996+38.52	-105.20	668.98	651.45	VARIES	W10x45	17'-6⅜"	147	789	936
BO-04	12	996+45.82	-105.20	668.98	651.31	VARIES	BUILT UP	17'-8"	206	1,023	1,229
BO-05	13	996+51.53	-99.49	668.98	651.31	VARIES	BUILT UP	17'-8"	206	1,023	1,229
S1-09	14	996+55.90	-99.27	668.98	654.33	654.48	W8x48	14'-7⅞"	334	704	1,038
S1-10	15	996+67.57	-99.27	666.98	654.11	654.48	W8x48	12'-10½"	317	618	935
S1-11	16	996+74.23	-99.27	666.98	653.98	654.48	W8x48	13'-0"	334	625	959
S1-12	17	996+85.90	-99.27	666.98	653.76	653.98	W8x48	13'-2⅝"	334	635	969
S1-13	18	996+97.57	-99.27	666.98	653.54	653.98	W8x48	13'-5⅜"	334	646	980
S1-14	19	997+09.23	-99.27	666.98	653.32	653.48	W8x48	13'-8"	317	657	974
S1-15	20	997+15.90	-99.27	666.98	653.19	653.48	W8x48	13'-9½"	334	663	997
S1-16	21	997+27.56	-99.47	666.98	652.98	653.48	W8x48	14'-0"	326	673	999
S1-17	22	997+36.92	-99.78	666.98	652.82	652.98	W8x48	14'-1⅞"	326	680	1,006
BO-06	23	997+46.32	-100.29	666.98	649.51	VARIES	BUILT UP	17'-5¾"	206	1,011	1,217
BO-07	24	997+51.23	-105.20	666.98	649.38	VARIES	BUILT UP	17'-7¼"	206	1,019	1,225
BO-08	25	997+58.23	-105.20	666.98	649.17	VARIES	W10x45	17'-9¾"	147	802	949
BO-09	26	997+66.23	-105.20	664.98	649.02	VARIES	W10x45	15'-11⅝"	147	719	866
BO-10	27	997+73.24	-105.20	664.98	648.88	VARIES	BUILT UP	16'-1⅛"	206	932	1,138
BO-11	28	997+78.94	-99.49	664.98	648.88	VARIES	BUILT UP	16'-1⅛"	206	932	1,138
S1-18	29	997+86.68	-99.27	664.98	651.84	651.98	W8x48	13'-1¾"	334	631	965
S1-19	30	997+98.35	-99.27	664.98	651.62	651.98	W8x48	13'-4⅜"	320	642	962
S1-20	31	998+05.90	-99.27	664.98	651.47	651.98	W8x48	13'-6⅛"	334	649	983
S1-21	32	998+17.57	-99.27	664.98	651.25	651.48	W8x48	13'-8¾"	328	660	988
S1-22	33	998+27.57	-99.27	664.98	651.06	651.48	W8x48	13'-11"	334	669	1,003
S1-23	34	998+39.23	-99.27	664.98	650.84	651.48	W8x48	14'-1¾"	334	679	1,013
S1-24	35	998+50.90	-99.27	664.98	650.62	650.98	W8x48	14'-4⅜"	334	690	1,024
S1-25	36	998+62.57	-99.27	664.98	650.39	650.98	W8x48	14'-7"	334	701	1,035
S1-26	37	998+74.23	-99.27	664.98	650.17	650.48	W8x48	14'-9¾"	334	711	1,045
S1-27	38	998+85.90	-99.27	662.98	649.95	650.48	W8x48	13'-0⅜"	328	626	954
S1-28	39	998+95.90	-99.27	662.98	649.76	649.98	W8x48	13'-2⅝"	334	635	969
S1-29	40	999+07.57	-99.27	662.98	649.54	649.98	W8x48	13'-5⅜"	328	646	974
S1-30	41	999+17.57	-99.27	662.98	649.35	649.48	W8x48	13'-7⅝"	334	655	989
S1-31	42	999+29.23	-99.27	662.98	649.12	649.48	W8x48	13'-10¼"	334	666	1,000
S1-32	43	999+40.90	-99.27	662.98	648.90	649.48	W8x48	14'-1"	334	676	1,010
S1-33	44	999+52.57	-99.27	662.98	648.68	648.98	W8x48	14'-3⅝"	334	687	1,021
S1-34	45	999+64.23	-99.27	662.98	648.46	648.98	W8x48	14'-6¼"	334	698	1,032
S1-35	46	999+75.90	-99.27	662.98	648.24	648.48	W8x48	14'-9"	328	708	1,036
S1-36	47	999+85.90	-99.27	660.98	648.05	648.48	W8x48	12'-11¼"	334	621	955
S1-37	48	999+97.57	-99.27	660.98	647.82	647.98	W8x48	13'-1⅞"	328	632	960
S1-38	49	1000+07.57	-99.27	660.98	647.63	647.98	W8x48	13'-4¼"	334	641	975
S1-39	50	1000+19.23	-99.27	660.98	647.41	647.98	W8x48	13'-6⅞"	334	652	986
S1-40	51	1000+30.90	-99.27	660.98	647.19	647.48	W8x48	13'-9½"	334	663	997
S1-41	52	1000+42.57	-99.27	660.98	646.97	647.48	W8x48	14'-0¼"	334	673	1,007
S1-42	53	1000+54.23	-99.27	660.98	646.74	646.98	W8x48	14'-2⅞"	334	684	1,018
S1-43	54	1000+65.90	-99.27	660.98	646.52	646.98	W8x48	14'-5½"	328	695	1,023
S1-44	55	1000+75.90	-99.27	660.98	646.33	646.48	W8x48	14'-7⅞"	334	704	1,038
S1-45	56	1000+87.57	-99.27	658.98	646.11	646.48	W8x48	12'-10½"	328	618	946
S1-46	57	1000+97.57	-99.27	658.98	645.92	646.48	W8x48	13'-0¾"	334	628	962
S1-47	58	1001+09.23	-99.27	658.98	645.70	645.98	W8x48	13'-3½"	334	638	972
S1-48	59	1001+20.90	-99.27	658.98	645.47	645.98	W8x48	13'-6⅛"	334	649	983
S1-49	60	1001+32.57	-99.27	658.98	645.25	645.48	W8x48	13'-8¾"	334	660	994
S1-50	61	1001+44.23	-99.27	658.98	645.03	645.48	W8x48	13'-11½"	334	670	1,004
S1-51	62	1001+55.90	-99.27	658.98	644.81	644.98	W8x48	14'-2⅛"	328	681	1,009
S1-52	63	1001+65.90	-99.27	658.98	644.62	644.98	W8x48	14'-4⅜"	334	690	1,024
S1-53	64	1001+77.57	-99.27	658.98	644.39	644.98	W8x48	14'-7"	323	701	1,024
S1-54	65	1001+85.90	-99.27	658.98	644.24	644.48	W8x48	14'-9"	334	708	1,042
S1-55	66	1001+97.57	-99.27	656.98	644.01	644.48	W8x48	12'-11⅝"	334	623	957
S1-56	67	1002+09.23	-99.27	656.98	643.79	643.98	W8x48	13'-2¼"	334	634	968
S1-57	68	1002+20.90	-99.27	656.98	643.57	643.98	W8x48	13'-5"	334	644	978

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

	PAY ITEM NO.	ITEM	UNIT	TOTAL
*	JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	1,350
	JT599920	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ. FT.	14,495
**	N/A	PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED, HEIGHT >18'	SQ. FT.	4,032

* POSTS, FOUNDATIONS AND PANELS INCLUDED IN S19.10N,SB SCHEDULES

** QUANTITY PROVIDED FOR INFORMATION ONLY. PRECAST CONCRETE NOISE ABATEMENT WALL, STRUCTURE MOUNTED >18' WILL BE PAID IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "ALLOWANCE FOR NOISE ABATEMENT WALL CONSTRUCTION". DETAILS TO BE ISSUED TO SUCCESSFUL BIDDER BY CONSTRUCTION REVISION.

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS18.80N,SB
POST SCHEDULE

NWJ-09

STEEL POST SCHEDULE

LOC MARK	POST MARK	STATION	OFFSET	T/WALL & POST EL.	BOTTOM POST EL.	BOTTOM WALL EL.	WF POST SIZE	POST LENGTH	MISC. STEEL WT. (POUNDS)	POST WT. (POUNDS)	TOTAL WT. (POUNDS)
S1-58	69	1002+32.57	-99.27	656.98	643.35	643.48	W8x48	13'-7⅝"	323	655	978
S1-59	70	1002+40.90	-99.27	656.98	643.19	643.48	W8x48	13'-9½"	334	663	997
S1-60	71	1002+52.57	-99.27	656.98	642.97	643.48	W8x48	14'-0¼"	323	673	996
S1-61	72	1002+60.90	-99.27	656.98	642.81	642.98	W8x48	14'-2⅛"	334	681	1,015
S1-62	73	1002+72.57	-99.27	656.98	642.58	642.98	W8x48	14'-4¾"	334	692	1,026
S1-63	74	1002+84.23	-99.27	656.98	642.36	642.98	W8x48	14'-7½"	334	702	1,036
S1-64	75	1002+95.90	-99.27	654.98	642.14	642.48	W8x48	12'-10⅛"	334	617	951
S1-65	76	1003+07.57	-99.27	654.98	641.92	642.48	W8x48	13'-0¾"	323	628	951
S1-66	77	1003+15.90	-99.27	654.98	641.76	641.98	W8x48	13'-2⅝"	334	635	969
S1-67	78	1003+27.57	-99.27	654.98	641.54	641.98	W8x48	13'-5⅜"	323	646	969
S1-68	79	1003+35.90	-99.27	654.98	641.38	641.98	W8x48	13'-7¼"	334	654	988
S1-69	80	1003+47.57	-99.27	654.98	641.16	641.48	W8x48	13'-9⅞"	334	664	998
S1-70	81	1003+59.23	-99.27	654.98	640.93	641.48	W8x48	14'-0⅝"	334	675	1,009
S1-71	82	1003+70.90	-99.27	654.98	640.71	640.98	W8x48	14'-3¼"	334	686	1,020
S1-72	83	1003+82.57	-99.27	654.98	640.49	640.98	W8x48	14'-5⅞"	323	696	1,019
S1-73	84	1003+90.90	-99.27	654.98	640.33	640.48	W8x48	14'-7⅞"	334	704	1,038
S1-74	85	1004+02.57	-99.27	652.98	640.11	640.48	W8x48	12'-10½"	323	618	941
S1-75	86	1004+10.90	-99.27	652.98	639.95	640.48	W8x48	13'-0⅜"	334	626	960
S1-76	87	1004+22.57	-99.27	652.98	639.73	639.98	W8x48	13'-3⅛"	334	637	971
S1-77	88	1004+34.23	-99.27	652.98	639.51	639.98	W8x48	13'-5¾"	334	647	981
S1-78	89	1004+45.90	-99.27	652.98	639.26	639.48	W8x48	13'-8⅝"	334	659	993
S1-79	90	1004+57.57	-99.27	652.98	639.03	639.48	W8x48	13'-11⅜"	323	670	993
S1-80	91	1004+65.90	-99.27	652.98	638.87	639.48	W8x48	14'-1⅜"	334	678	1,012
S1-81	92	1004+77.57	-99.27	652.98	638.65	638.98	W8x48	14'-4"	334	689	1,023
S1-82	93	1004+89.12	-99.27	652.98	638.43	638.98	W8x48	14'-6⅝"	334	699	1,033
S1-83	94	1005+00.78	-99.27	652.98	638.20	638.48	W8x48	14'-9⅜"	334	710	1,044
S1-84	95	1005+12.45	-99.27	652.98	637.98	638.48	W8x48	15'-0"	334	721	1,055
S1-85	96	1005+24.12	-99.27	652.98	637.77	637.98	W8x48	15'-2⅝"	334	731	1,065
S1-86	97	1005+35.67	-99.27	650.98	637.56	637.98	W8x48	13'-5⅞"	334	645	979
S1-87	98	1005+47.33	-99.47	650.98	637.36	637.98	W8x48	13'-7½"	326	654	980
S1-88	99	1005+56.61	-99.78	650.98	637.22	637.48	W8x48	13'-9⅛"	326	661	987
BO-12	100	1005+66.08	-100.28	650.98	633.92	VARIES	BUILT UP	17'-0¾"	206	988	1,194
BO-13	101	1005+73.50	-107.70	650.98	633.66	VARIES	BUILT UP	17'-3⅞"	206	1,002	1,208
BO-14	102	1005+80.50	-107.70	650.98	633.54	VARIES	W10x45	17'-5¼"	147	785	932
BO-15	103	1005+88.50	-107.70	650.98	633.41	VARIES	W10x45	17'-6⅞"	147	791	938
BO-16	104	1005+96.50	-107.70	650.98	633.27	VARIES	W10x45	17'-8⅝"	147	798	945
BO-17	105	1006+03.50	-107.70	650.98	633.14	VARIES	BUILT UP	17'-10⅛"	206	1,033	1,239
BO-18	106	1006+11.76	-99.44	650.98	633.14	VARIES	BUILT UP	17'-10⅛"	206	1,033	1,239
G01-2	130	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									
G02-2	131	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									
G03-2	132	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									
G04-2	133	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									
G05-2	134	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									
G06-2	135	FOUNDATION DATA INCLUDED WITH NAW TS19.10N,SB SCHEDULE									

NAW TYPE

S = STRUCTURE MOUNTED
BO = BUMP-OUT MOUNTED

01
POST NUMBER

POST MARK CONVENTION

S1-01
NAW NUMBER
NAW TYPE
POST LOCATION

LOCATION MARK CONVENTION

NOTE:
1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G13 AND G14.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen
Civil Engineering Design
311 S. Wacker Dr., Suite 460
Chicago, Illinois 60606
Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

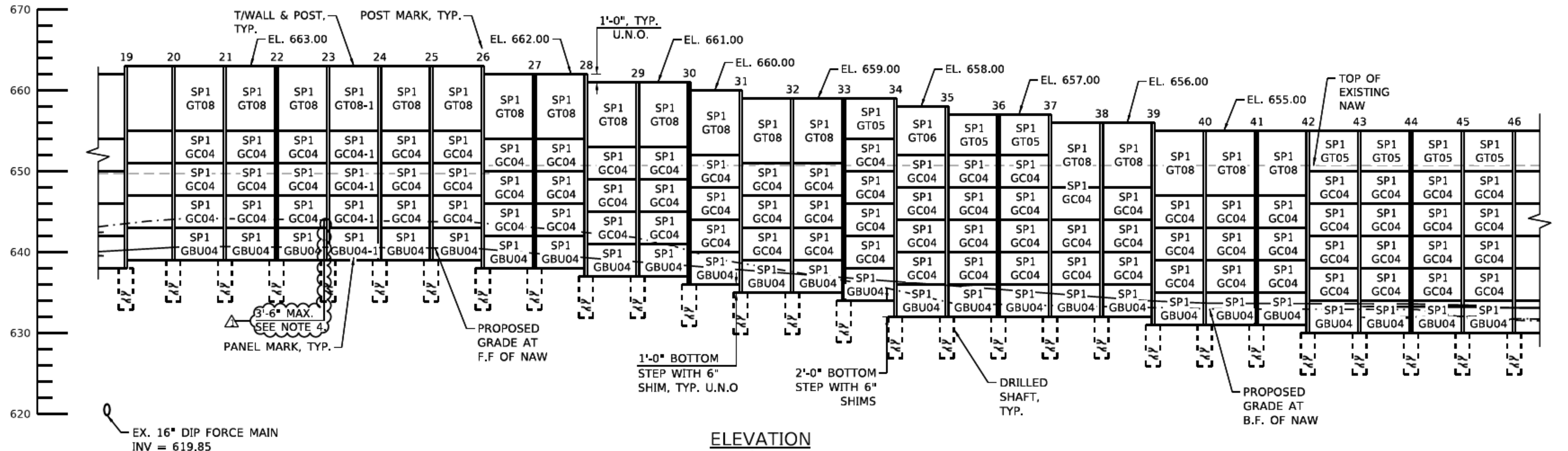
REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

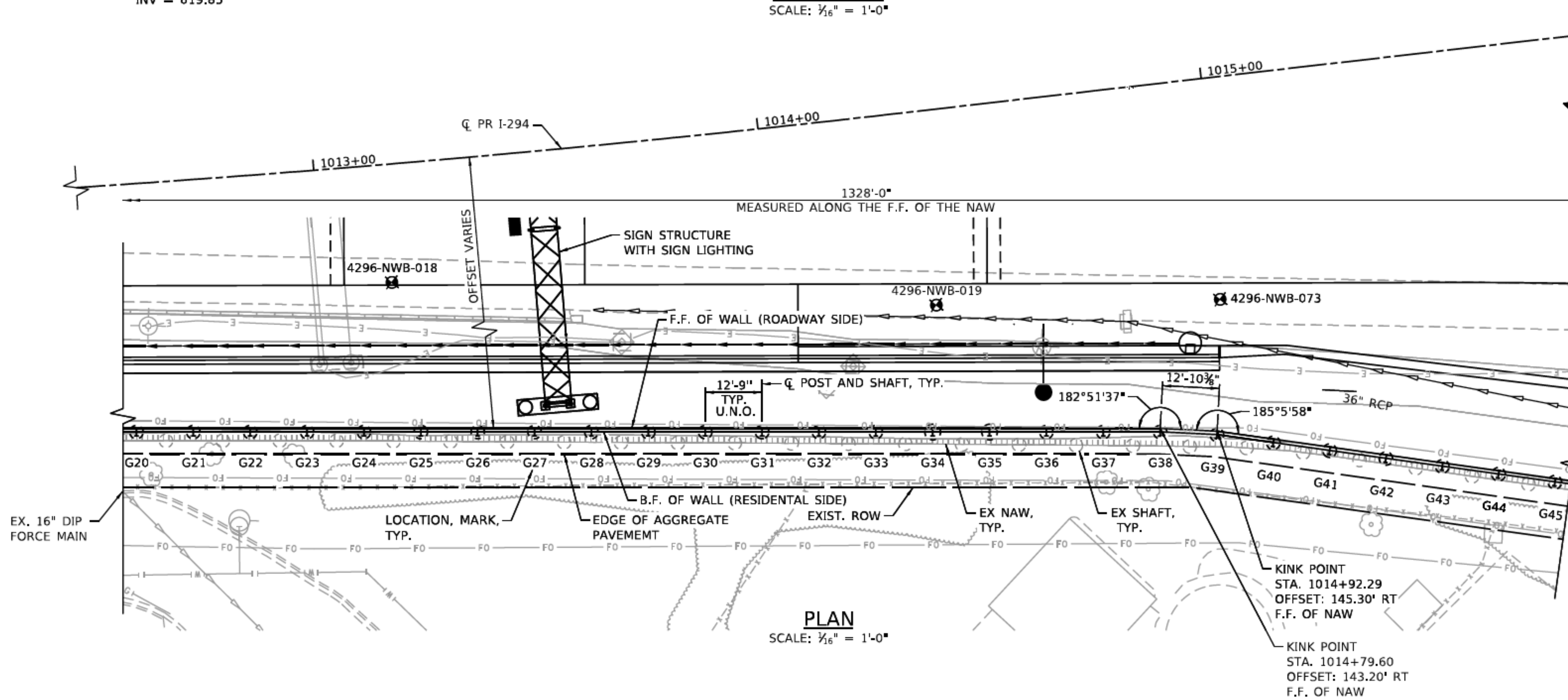
NOISE ABATEMENT WALL TS18.80N,SB
POST SCHEDULE

NWJ-10
DRAWING NO.



ELEVATION

SCALE: $\frac{1}{16}$" = 1'-0"



PLAN

SCALE: $\frac{1}{16}$" = 1'-0"

NOTES:

1. STATIONS AND OFFSETS FOR ALL THE DRILL SHAFTS ARE FROM THE PROPOSED ℄ I-294 AND ARE SHOWN IN DRILL SHAFT SCHEDULE.
2. TOP OF WALL AND TOP OF POST ELEVATION ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.
3. EXISTING NAW WILL BE REMOVED. SEE VOL. 1 FOR ROADWAY REMOVAL PLANS.
4. THE DIMENSION SHOWN IS THE MAXIMUM GRADE DIFFERENCE BETWEEN FRONT FACE OF THE NAW AND BACK FACE OF THE NAW, AT ANY POINT, ALONG THE LENGTH OF THE WALL.

DRAWN BY MK	DATE 5/26/2020	CHECKED BY KN	DATE 5/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS19.10N, NB
GENERAL PLAN & ELEVATION 2

SHEET NO. NWK - 2 OF 15

DRAWING NO. 1195 OF 1762

GENERAL

1. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
2. ALL PLAN DIMENSIONS ARE HORIZONTAL EXCEPT AS NOTED OTHERWISE.
3. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.
4. FOR EXISTING UTILITIES AND CONFLICT, SEE "EXISTING UTILITY PLAN" SHEETS.

CONSTRUCTION

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CALL J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED IN ONLINE AT THE TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE.
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR SHALL USE CARE WHEN EXCAVATING AROUND EXISTING FOUNDATIONS. ANY DAMAGE TO THE EXISTING STRUCTURE AND/OR SUPPORTING FOUNDATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

IDOT BRIDGE MANUAL, JANUARY 2012 AND ALL IDOT BRIDGE DESIGNERS MEMORANDUMS

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.

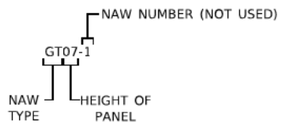
LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
BL	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BENCHMARK
℄	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
CONST	CONSTRUCTION
CTS	CENTERS
EA	EACH
E.E.	EACH END
EF	EACH FACE
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
FDN	FOUNDATION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
LT	LEFT
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
NB	NORTHBOUND
N.A.	NOT APPLICABLE
O.C.	ON CENTER
PL	PLATE
PGL	PROFILE GRADE LINE
PJF	PREFORMED JOINT FILLER
PJS	PREFORMED JOINT SEAL
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
ROW	RIGHT OF WAY
SHLDR.	SHOULDER
S.	SOUTH
SB	SOUTHBOUND
S.P.	SPECIAL PROVISION
SPA	SPACING
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TEMP	TEMPORARY
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

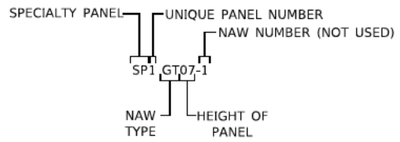
NAW TYPE

GT = NON-CRASHWORTHY GROUND MOUNTED TOP PANEL
GC = NON-CRASHWORTHY GROUND MOUNTED CENTER PANEL
* GBU = NON-CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (UNBALANCED SOIL LOAD)
SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE MAXIMUM UNBALANCED SOIL LOAD.



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

NON-CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
GBU04	4'-0"	19'-10"	9"	12
GC04 (1) ⚠1	4'-0"	19'-10"	7"	39
GT05	5'-0"	19'-10"	7"	3
GT07	7'-0"	19'-10"	7"	1
GT08	8'-0"	19'-10"	7"	8
SP1 GBU04	4'-0"	12'-7"	9"	73
SP1 GC04 (1) ⚠1	4'-0"	12'-7"	7"	235
SP1 GT05	5'-0"	12'-7"	7"	15
SP1 GT06	6'-0"	12'-7"	7"	1
SP1 GT07	7'-0"	12'-7"	7"	7
SP1 GT08	8'-0"	12'-7"	7"	50
SP2 GBU04	4'-0"	11'-7"	9"	4
SP2 GC04 (1) ⚠1	4'-0"	11'-7"	7"	13
SP2 GT05	5'-0"	11'-7"	7"	1
SP2 GT08	8'-0"	11'-7"	7"	3
SP3 GBU04	4'-0"	15'-10"	9"	1
SP3 GC04 (1) ⚠1	4'-0"	15'-10"	7"	3
SP3 GT08	8'-0"	15'-10"	7"	1
SP4 GBU04	4'-0"	18'-7"	9"	1
SP4 GC04 (1) ⚠1	4'-0"	18'-7"	7"	3
SP4 GT08	8'-0"	18'-7"	7"	1
SP5 GBU04	4'-0"	14'-4"	9"	1
SP5 GC04 (1) ⚠1	4'-0"	14'-4"	7"	3
SP5 GT08	8'-0"	14'-4"	7"	1
SP6 GBU04	4'-0"	13'-7"	9"	1
SP6 GC04 (1) ⚠1	4'-0"	13'-7"	7"	3
SP6 GT08	8'-0"	13'-7"	7"	1
SP7 GBU04	4'-0"	13'-2"	9"	1
SP7 GC04 (1) ⚠1	4'-0"	13'-2"	7"	3
SP7 GT07	7'-0"	13'-2"	7"	1
SP8 GBU04	4'-0"	15'-4"	9"	1
SP8 GC04 (1) ⚠1	4'-0"	15'-4"	7"	3
SP8 GT08	8'-0"	15'-4"	7"	1
SP9 GBU04	4'-0"	17'-8"	9"	1
SP9 GC04 (1) ⚠1	4'-0"	17'-8"	7"	4
SP9 GT05	5'-0"	17'-8"	7"	1

⚠1 (1) CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 8FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

DRAWN BY MK DATE 5/26/2020
CHECKED BY KN DATE 5/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
⚠1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS19.10N, NB
PANEL SCHEDULE & NOTES

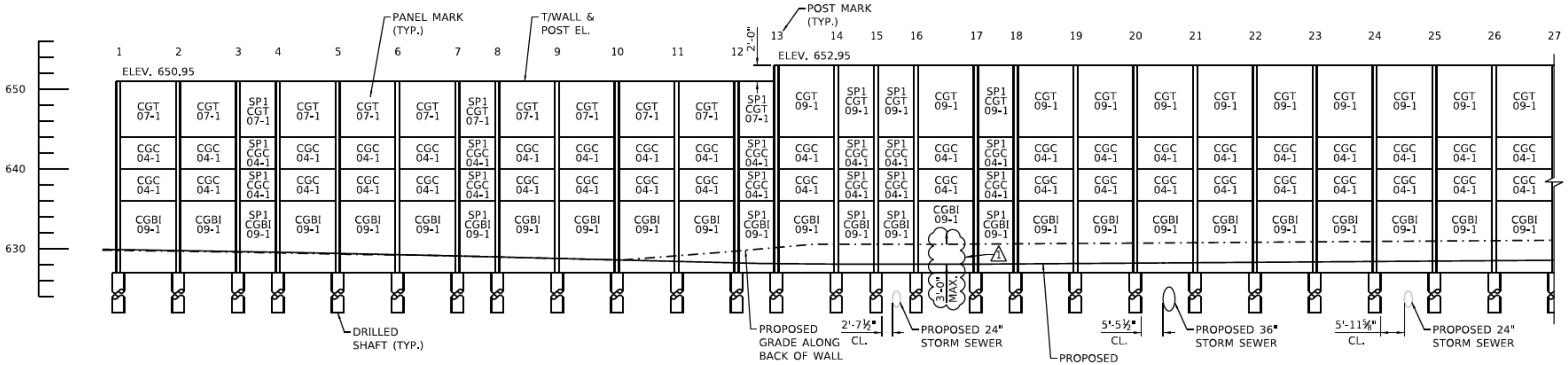
SHEET NO.
NWK – 5 OF 15
DRAWING NO.
1198 OF 1762

BENCHMARK: BM3: CH "□" ON TOP OF PARAPET WALL, NBL OUTSIDE SHOULDER, APPROX STA 1009+00, RT

EXISTING STRUCTURE: EXISTING PRECAST NOISE ABATEMENT WALL.

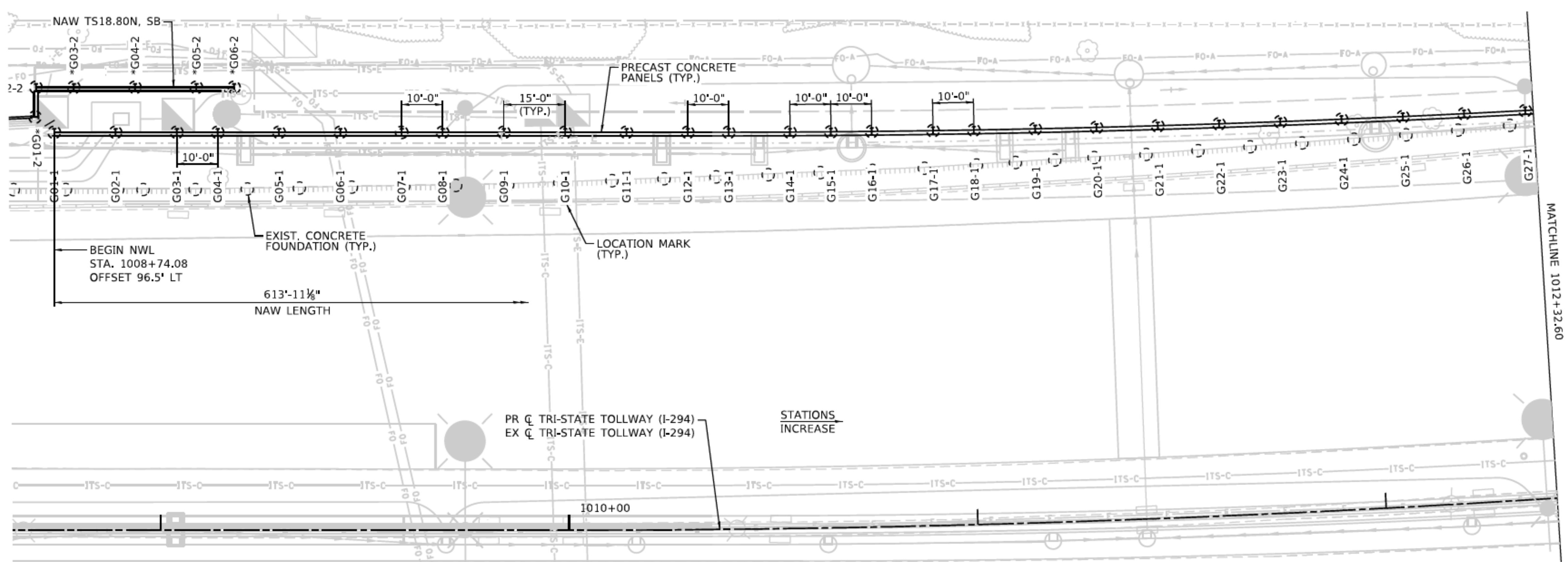
SALVAGE: NONE

PROPOSED STRUCTURE: CRASHWORTHY NOISE ABATEMENT WALL CONSISTING OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS ALONG WESTERN SHOULDER OF SB I-294 IS 613'-11⅛" IN TOTAL LENGTH AND VARYING IN HEIGHT.



ELEVATION

(VERTICAL SCALE EXAGGERATED)
NOTE: TS18.80N,SB NOT SHOWN FOR CLARITY.



PLAN

NOTE: DIMENSIONS ALONG CURVE ARE CHORD LENGTHS BETWEEN THE ℄ OF FOUNDATIONS.

HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
AADT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.063
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.114
SOIL SITE CLASS = C

INDEX OF SHEETS

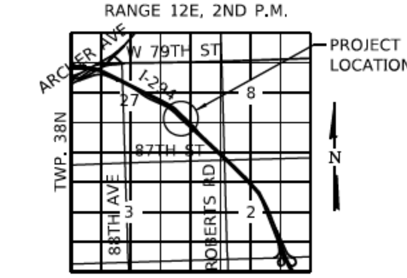
NOTES

1. FOR NOISEWALL BILL OF MATERIAL, SEE SHEET NWL-04.
2. ALL MEASUREMENTS AND STATIONS ARE TAKEN ALONG THE FRONT FACE OF PANEL UNLESS NOTED OTHERWISE.
3. TOP OF WALL AND TOP OF POST ELEVATIONS ARE TO MATCH AS SHOWN IN THE ELEVATION VIEW.

LEGEND

EXISTING LIGHT POLE
PROPOSED LUMINAIRE
PROPOSED STORM SEWER
PROPOSED CATCH BASIN
FIBER OPTIC LINE
FIBER OPTIC AERIAL LINE
EXISTING TOLLWAY ROW
FENCE
ITS COMMUNICATIONS CONDUIT
ITS ELECTRICAL CONDUIT
EXISTING CONCRETE BARRIER
EXISTING NOISEWALL
PROPOSED NOISEWALL
PROPOSED DRILLED SHAFT
EXISTING VEGETATION
AGGREGATE PAVEMENT

RANGE 12E, 2ND P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 1008+74.08 TO 1014+98.89
NOISE ABATEMENT WALL TS19.10N,SB

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

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Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS19.10N,SB
GENERAL PLAN & ELEVATION

NWL-01
DRAWING NO.
1209 OF 1762

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (TL-4 IMPACT)

	PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
	CGBI09-1	9'-0"	14'-10"	11"	22
	SP1 CGBI09-1	9'-0"	9'-10"	11"	6
	SP2 CGBI09-1	9'-0"	10'-4¾"	11"	1
	SP3 CGBI09-1	9'-0"	12'-7"	11"	16
	SP3 CGCI06-1	6'-0"	12'-7"	11"	2
	SP4 CGBI09-1	9'-0"	9'-2"	11"	1
	SP4 CGCI06-1	6'-0"	9'-2"	11"	1
***	CGBI09-2	9'-0"	14'-10"	11"	2
***	SP20 CGBI09-2	9'-0"	6'-2½"	11"	1
***	SP21 CGBI09-2	9'-0"	9'-0¾"	11"	2

CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE (NO TL-4 IMPACT)

	PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
*	CGC04-1	4'-0"	14'-10"	9"	44
	CGT07-1	7'-0"	14'-10"	9"	9
	CGT09-1	9'-0"	14'-10"	9"	13
*	SP1 CGC04-1	4'-0"	9'-10"	9"	12
	SP1 CGT07-1	7'-0"	9'-10"	9"	3
	SP1 CGT09-1	9'-0"	9'-10"	9"	3
*	SP2 CGC04-1	4'-0"	10'-4¾"	9"	2
	SP2 CGT09-1	9'-0"	10'-4¾"	9"	1
*	SP3 CGC04-1	4'-0"	12'-7"	9"	30
	SP3 CGT05-1	5'-0"	12'-7"	9"	2
	SP3 CGT07-1	7'-0"	12'-7"	9"	13
	SP3 CGT09-1	9'-0"	12'-7"	9"	1
*	SP4 CGC04-1	4'-0"	9'-2"	9"	1
	SP4 CGT05-1	5'-0"	9'-2"	9"	1
(*)(***)	CGC04-2	4'-0"	14'-10"	9"	4
	CGT08-2	8'-0"	14'-10"	9"	2
(*)(***)	SP20 CGC04-2	4'-0"	6'-2½"	9"	2
(*)(***)	SP21 CGC04-2	4'-0"	9'-0¾"	9"	4
(*)(***)	SP20 CGT08-2	8'-0"	6'-2½"	9"	1
(*)(***)	SP21 CGT08-2	8'-0"	9'-0¾"	9"	2

* CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 9FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

*** THESE PANELS ARE A PART OF NAW TS18.80N,SB

NOTE:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G16.

GENERAL NOTES

1. CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.
2. NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR MAY REQUEST COPIES OF EXISTING CONSTRUCTION PLANS THAT ARE CURRENTLY ON FILE WITH THE ILLINOIS TOLLWAY. THE REQUEST SHALL BE IN WRITING WITH THE UNDERSTANDING THAT ANY REPRODUCTION COST WILL BE AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY.
4. NO CONCRETE CUTTING SHALL BE PERMITTED UNTIL THE CUTTING LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST ILLINOIS TOLLWAY UTILITIES LOCATE" FORM ONLINE AT THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR (4) BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN THE GENERAL AREA OF THE FIBER OPTIC CABLE."
7. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.
8. WHENEVER ANY MATERIAL IS DEPOSITED INTO A DRAINAGE SYSTEM OR DRAINAGE STRUCTURES, THE DEPOSITED MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS DEPOSITED DURING THE VARIOUS CONSTRUCTION OPERATIONS.

LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT.	ABUTMENT
BK.	BACK
B.F.	BACK FACE
B	BASELINE
BRG.	BEARING
BOTT.	BOTTOM
B/	BOTTOM OF
BM	BRIDGE MOUNTED
C	CENTERLINE
CL.	CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CGM	CRASHWORTHY GROUND MOUNTED
E.E.	EACH END
E.	EAST
EB	EASTBOUND
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FRONT FACE
JT.	JOINT
LOC.	LOCATION
MAX.	MAXIMUM
MIN.	MINIMUM
NAW	NOISE ABATEMENT WALL
N.	NORTH
N.A.	NOT APPLICABLE
O.C.	ON CENTER
P	PLATE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PROP.	PROPOSED
SHLDR.	SHOULDER
S.	SOUTH
S.P.	SPECIAL PROVISION
SQ. FT.	SQUARE FOOT
SQ. YD.	SQUARE YARD
STA.	STATION
STRUCT	STRUCTURAL
S.M.	STRUCTURE MOUNTED
T/	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WB	WESTBOUND
WF	WIDE FLANGE

NAW TYPE

- * CGT = CRASHWORTHY GROUND MOUNTED TOP PANEL (NO TL-4 IMPACT)
- * CGC = CRASHWORTHY GROUND MOUNTED CENTER PANEL (NO TL-4 IMPACT)
- ** CGTFI = CRASHWORTHY GROUND MOUNTED FULL HEIGHT PANEL (TL-4 IMPACT)
- ** CGTI = CRASHWORTHY GROUND MOUNTED TOP PANEL (TL-4 IMPACT)
- ** CGCI = CRASHWORTHY GROUND MOUNTED CENTER PANEL (TL-4 IMPACT)
- ** CGBI = CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (TL-4 IMPACT)
- SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE 4KIP VEHICLE COLLISION LOADING.

** THESE PANELS HAVE BEEN DESIGNED FOR THE 54KIP TL-4 VEHICLE COLLISION LOADING.

DESIGN SPECIFICATIONS

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, MARCH 2020.

ILLINOIS TOLLWAY GEOTECHNICAL MANUAL, MARCH 2020.

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 8TH EDITION DATED SEPTEMBER 2017.

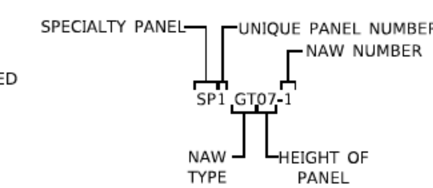
CONSTRUCTION SPECIFICATIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION GUIDE BRIDGE SPECIAL PROVISIONS (GBSPs)

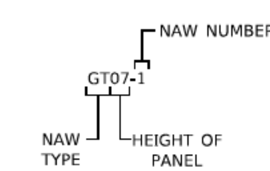
ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ISSUED MARCH 30, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2020.

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016.



SPECIALTY PANEL NAMING CONVENTION



TYPICAL PANEL NAMING CONVENTION

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK♦Moen Civil Engineering Design — 311 S. Wacker Dr., Suite 460 Chicago, Illinois 60606 Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS19.10N,SB PANEL SCHEDULE

NWL-03

DRAWING NO. 1211 OF 1762

DRILLED SHAFT SCHEDULE

	LOC MARK	STATION	OFFSET	T/ SHAFT EL.	B/ SHAFT EL.	SHAFT DEPTH	SHAFT DIAMETER	B/ POST EMBED EL.	POST EMBED DEPTH	POST MARK
**	G01-2	1008+69.32	-101.08	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	127
**	G02-2	1008+69.54	-108.38	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	128
**	G03-2	1008+78.77	-108.38	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	129
**	G04-2	1008+93.77	-108.38	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	130
**	G05-2	1009+08.77	-108.38	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	131
**	G06-2	1009+18.00	-108.38	625.98	607.48	18'-6"	3'-0"	609.48	16'-6"	132
	G01-1	1008+74.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	01
	G02-1	1008+89.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	02
	G03-1	1009+04.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	03
	G04-1	1009+14.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	04
	G05-1	1009+29.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	05
	G06-1	1009+44.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	06
	G07-1	1009+59.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	07
	G08-1	1009+69.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	08
	G09-1	1009+84.00	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	09
	G10-1	1009+99.06	-97.38	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	10
	G11-1	1010+14.45	-97.34	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	11
	G12-1	1010+29.85	-97.24	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	12
	G13-1	1010+40.11	-97.14	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	13
	G14-1	1010+55.50	-96.99	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	14
	G15-1	1010+65.76	-96.88	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	15
	G16-1	1010+76.02	-96.78	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	16
	G17-1	1010+91.41	-96.62	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	17
	G18-1	1011+01.67	-96.52	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	18
	G19-1	1011+17.06	-96.36	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	19
	G20-1	1011+32.45	-96.21	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	20
	G21-1	1011+47.84	-96.05	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	21
	G22-1	1011+63.22	-95.89	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	22
	G23-1	1011+78.61	-95.74	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	23
	G24-1	1011+93.99	-95.58	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	24
	G25-1	1012+09.38	-95.42	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	25
	G26-1	1012+24.76	-95.26	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	26
	G27-1	1012+40.15	-95.10	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	27
	G28-1	1012+55.53	-94.94	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	28
	G29-1	1012+70.91	-94.78	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	29
	G30-1	1012+81.75	-94.67	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	30
	G31-1	1012+94.82	-94.54	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	31
	G32-1	1013+07.90	-94.40	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	32
	G33-1	1013+20.96	-94.40	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	33
	G34-1	1013+34.04	-94.69	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	34
	G35-1	1013+47.11	-94.97	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	35
	G36-1	1013+60.18	-95.26	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	36
	G37-1	1013+73.26	-95.55	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	37
	G38-1	1013+86.33	-95.84	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	38
	G39-1	1013+99.41	-96.12	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	39
	G40-1	1014+12.48	-96.41	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	40
	G41-1	1014+25.56	-96.70	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	41
	G42-1	1014+38.48	-96.99	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	42
	G43-1	1014+51.23	-97.32	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	43
	G44-1	1014+63.97	-97.69	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	44
	G45-1	1014+76.72	-98.10	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	45
	G46-1	1014+89.46	-98.53	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	46
	G47-1	1014+98.78	-98.82	626.95	608.45	18'-6"	3'-0"	610.45	16'-6"	47

STEEL POST SCHEDULE

	POST MARK	STEEL POST SIZE	POST LENGTH	T/ WALL & POST EL.
*	127	W21x68	41'-6"	650.98
*	128	W21x68	41'-6"	650.98
	129	W21x68	41'-6"	650.98
	130	W21x68	41'-6"	650.98
	131	W21x68	41'-6"	650.98
	132	W21x68	41'-6"	650.98
	01	W21x68	40'-6"	650.95
	02	W21x68	40'-6"	650.95
	03	W21x68	40'-6"	650.95
	04	W21x68	40'-6"	650.95
	05	W21x68	40'-6"	650.95
	06	W21x68	40'-6"	650.95
	07	W21x68	40'-6"	650.95
	08	W21x68	40'-6"	650.95
	09	W21x68	40'-6"	650.95
	10	W21x68	40'-6"	650.95
	11	W21x68	40'-6"	650.95
	12	W21x68	40'-6"	650.95
	13	W21x68	42'-6"	652.95
	14	W21x68	42'-6"	652.95
	15	W21x68	42'-6"	652.95
	16	W21x68	42'-6"	652.95
	17	W21x68	42'-6"	652.95
	18	W21x68	42'-6"	652.95
	19	W21x68	42'-6"	652.95
	20	W21x68	42'-6"	652.95
	21	W21x68	42'-6"	652.95
	22	W21x68	42'-6"	652.95
	23	W21x68	42'-6"	652.95
	24	W21x68	42'-6"	652.95
	25	W21x68	42'-6"	652.95
	26	W21x68	42'-6"	652.95
	27	W21x68	42'-6"	652.95
	28	W21x68	42'-6"	652.95
	29	W21x68	42'-6"	652.95
	30	W21x68	42'-6"	652.95
	31	W21x68	42'-6"	652.95
	32	W21x68	40'-6"	650.95
	33	W21x68	40'-6"	650.95
	34	W21x68	40'-6"	650.95
	35	W21x68	40'-6"	650.95
	36	W21x68	40'-6"	650.95
	37	W21x68	40'-6"	650.95
	38	W21x68	40'-6"	650.95
	39	W21x68	40'-6"	650.95
	40	W21x68	40'-6"	650.95
	41	W21x68	40'-6"	650.95
	42	W21x68	40'-6"	650.95
	43	W21x68	40'-6"	650.95
	44	W21x68	40'-6"	650.95
	45	W21x68	40'-6"	650.95
	46	W21x68	40'-6"	650.95
	47	W21x68	40'-6"	650.95

TOTAL BILL OF MATERIAL

(NO ADVANCE PROCUREMENT)

PAY ITEM NO.	ITEM	UNIT	TOTAL
JT599915	PRECAST CONCRETE NOISE ABATEMENT WALL, GROUND MOUNTED, CRASHWORTHY	SQ. FT.	15,039

* POST IS LOCATED AT 90° TURN AND REQUIRES ADDITIONAL ANGLES WELDED TO FLANGE.

** POSTS AND FOUNDATIONS ARE A PART OF NAW TS18.80N,SB.

NAW TYPE

CG = CRASHWORTHY GROUND MOUNTED

G = NON-CRASHWORTHY GROUND MOUNTED

01 — POST NUMBER

POST MARK CONVENTION

G01-1: NAW TYPE (G); NAW NUMBER (01); SHAFT AND/OR POST LOCATION (1)

LOCATION MARK CONVENTION

NOTE

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARDS G16.

DRAWN BY	CMC	DATE	05/26/2020
CHECKED BY	CDL	DATE	05/26/2020

EFK•Moen Civil Engineering Design, 311 S. Wacker Dr., Suite 460, Chicago, Illinois 60606, Telephone: 312.396.4065

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY, 2700 OGDEN AVENUE, DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS19.10N,SB POST SCHEDULE

NWL-04

DRAWING NO. 1212 OF 1762

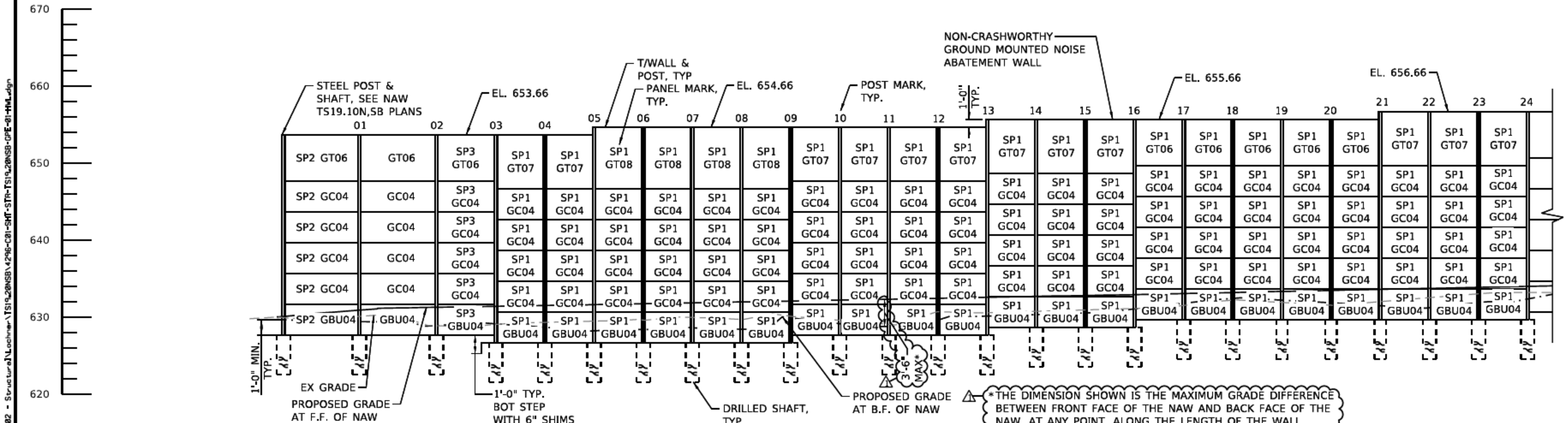
PLOT TIME = 3:24:31 PM PLOT DATE = 7/16/2020 PLOT SCALE = 8.1667 ' / in.

BENCHMARK: BM 12-CHISELED "□" ON SWX OF WESTERLY CONCRETE BASE OF 1st GANTRY SIGN SE OF TOLL PLAZA 39, IN WESTERLY SHOULDER OF MANUAL LANES STA. 1017+76.62, OFFSET 100.76' RT, ELEV. = 635.67

EXISTING STRUCTURE: EXISTING PRECAST NOISE ABATEMENT WALL FROM STA. 1004+81.49 TO STA. 1041+01.57.

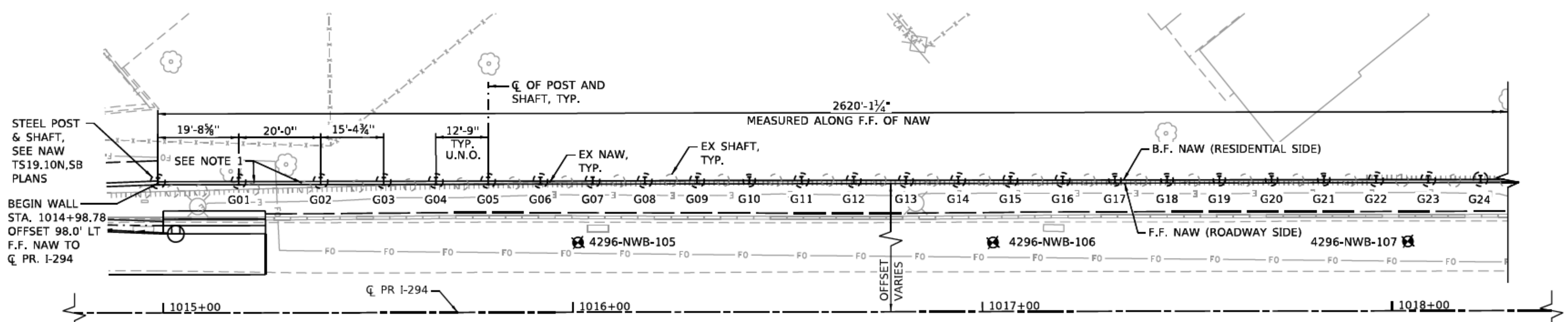
PROPOSED STRUCTURE: NOISE ABATEMENT WALL CONSISTS OF STEEL POSTS AND PRECAST CONCRETE PANELS SUPPORTED BY REINFORCED CONCRETE DRILLED SHAFTS.

TRAFFIC ON SB I-294 WILL BE MAINTAINED DURING CONSTRUCTION.



ELEVATION

SCALE: 1/16" = 1'-0"



PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REMOVING EXISTING SHAFTS IF CONFLICTING WITH PROPOSED SHAFTS. REMOVED SHAFTS SHALL BE REPLACED WITH CLSM MATERIAL. THE COST OF BACKFILLING WITH CLSM MATERIAL SHALL BE INCLUDED IN THE PAY ITEM "REMOVAL OF EXISTING NOISE ABATEMENT WALL".
2. FOR PANELS SCHEDULE, REFER TO SHEETS NWM-8 AND NWM-9. FOR DRILLED SHAFTS SCHEDULE, REFER TO SHEETS NWM-10 THRU NWM-13.
3. STATIONS AND OFFSETS FOR ALL THE DRILLED SHAFTS ARE TAKEN FROM THE PROPOSED ℄ I-294 AND ARE SHOWN IN DRILL SHAFT SCHEDULE.
4. ALL MEASUREMENTS SHOWN ARE TAKEN AT THE F.F. OF NAW.

LEGEND

CABLE AERIAL	FENCE
ELECTRIC AERIAL	WATERMAIN
FIBER OPTIC	LIGHT POLE
GAS	SOIL BORING
TELEPHONE	EXISTING NAW SHAFT
STORM SEWER	
EXISTING ROW	

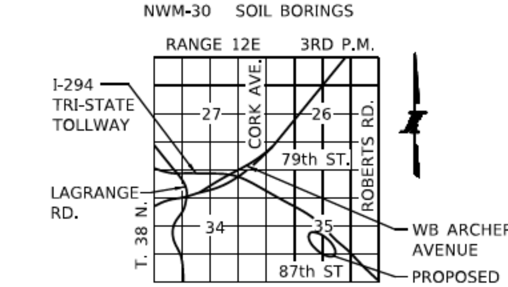
HIGHWAY CLASSIFICATION

SB TRI-STATE TOLLWAY (I-294)
FUNCTIONAL CLASS: INTERSTATE
ADT: 62,310 (2013); 94,700 (2040)
ADTT: 10,593 (2013); 16,099 (2040)
DHV: 6,010 (2013); 8,070 (2040)
DESIGN SPEED: 70 M.P.H.
POSTED SPEED: 55 M.P.H.
ONE WAY TRAFFIC
DIRECTION DISTRIBUTION 100%-0%

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ) = 1
DESIGN SPECTRAL ACCELERATION AT 1.0 SEC (SDI) = 0.074
DESIGN SPECTRAL ACCELERATION AT 0.2 SEC (SDS) = 0.118
SOIL SITE CLASS = C

INDEX OF SHEETS



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
TRI-STATE TOLLWAY (I-294)
COOK COUNTY
STATION 1014+98.78 TO 1041+09.50
STRUCTURE NO. TS19.20N, SB

DRAWN BY MAF	DATE 5/26/2020		
CHECKED BY KN	DATE 5/26/2020		

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517
NOISE ABATEMENT WALL TS19.20N, SB
GENERAL PLAN & ELEVATION 1

SHEET NO. NWM - 1 OF 30
DRAWING NO. 1217 OF 1762

PLOT DATE = 7/16/2020 PLOT TIME = 5:51:28 PM PLOT SCALE = 32.0000 ' / in.

NON-CRASHWORTHY NAW GROUND MOUNTED PANEL SCHEDULE

PANEL MARK	PANEL HEIGHT	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP2 GT06	6'-0"	19'-7"	7"	1
GT06	6'-0"	19'-10"	7"	4
SP3 GT06	6'-0"	15'-3"	7"	1
SP1 GT07	7'-0"	12'-7"	7"	30
SP1 GT08	8'-0"	12'-7"	7"	61
SP1 GT06	6'-0"	12'-7"	7"	20
SP4 GT05	5'-0"	12'-10"	7"	1
SP5 GT05	5'-0"	10'-11"	7"	1
SP1 GT05	5'-0"	12'-7"	7"	24
SP6 GT05	5'-0"	10'-8"	7"	1
SP7 GT05	5'-0"	9'-4"	7"	1
SP8 GT06	6'-0"	18'-10"	7"	1
SP9 GT06	6'-0"	9'-10"	7"	1
SP10 GT06	6'-0"	11'-6"	7"	1
SP11 GT05	5'-0"	17'-1"	7"	1
SP12 GT05	5'-0"	10'-10"	7"	1
SP13 GT05	5'-0"	14'-10"	7"	1
SP14 GT04	4'-0"	11'-10"	7"	1
GT05	5'-0"	19'-10"	7"	5
SP15 GT06	6'-0"	13'-10"	7"	1
SP6 GT07	7'-0"	10'-8"	7"	1
GT07	7'-0"	19'-10"	7"	2
SP14 GT07	7'-0"	11'-10"	7"	1
SP16 GT06	6'-0"	10'-6"	7"	2
SP16 GT07	7'-0"	10'-6"	7"	4
SP17 GT07	7'-0"	11'-4"	7"	1
SP32 GT06	6'-0"	14'-1"	7"	1
SP12 GT06	6'-0"	10'-10"	7"	1
SP18 GT06	6'-0"	18'-2"	7"	1
SP19 GT08	8'-0"	11'-5"	7"	2
SP20 GT08	8'-0"	10'-1"	7"	2
GT08	8'-0"	19'-10"	7"	4
SP21 GT08	8'-0"	14'-7"	7"	1
SP22 GT08	8'-0"	11'-2"	7"	1
SP23 GT08	8'-0"	12'-0"	7"	1
SP24 GT08	8'-0"	13'-3"	7"	1
SP17 GT08	8'-0"	11'-3"	7"	1
SP25 GT05	5'-0"	11'-7"	7"	1
SP26 GT06	6'-0"	10'-4"	7"	2
SP25 GT08	8'-0"	11'-7"	7"	1
SP27 GT07	7'-0"	13'-6"	7"	1
SP28 GT06	6'-0"	11'-0"	7"	1
SP26 GT08	8'-0"	11'-4"	7"	1
SP12 GT08	8'-0"	10'-10"	7"	1
SP29 GT08	8'-0"	11'-1"	7"	3
SP30 GT08	8'-0"	14'-5"	7"	1
SP31 GT08	8'-0"	15'-9"	7"	1

NON-CRASHWORTHY NAW GROUND MOUNTED CENTER PANEL SCHEDULE (1)

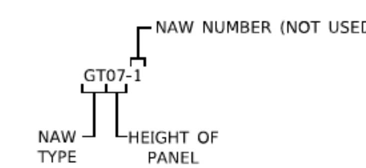
PANEL MARK	PANEL HEIGHT (1)	PANEL WIDTH	TOTAL PANEL THICKNESS	NUMBER OF PANELS
SP2 GC04	4'-0"	19'-7"	7"	4
GC04	4'-0"	19'-10"	7"	56
SP3 GC04	4'-0"	15'-3"	7"	4
SP1 GC04	4'-0"	12'-7"	7"	483
SP4 GC04	4'-0"	12'-10"	7"	4
SP5 GC04	4'-0"	10'-11"	7"	4
SP6 GC04	4'-0"	10'-8"	7"	8
SP7 GC04	4'-0"	9'-4"	7"	4
SP8 GC04	4'-0"	18'-10"	7"	4
SP9 GC04	4'-0"	9'-10"	7"	4
SP10 GC04	4'-0"	11'-6"	7"	4
SP11 GC04	4'-0"	17'-1"	7"	4
SP12 GC04	4'-0"	10'-10"	7"	11
SP13 GC04	4'-0"	14'-10"	7"	4
SP14 GC04	4'-0"	11'-10"	7"	8
SP15 GC04	4'-0"	13'-10"	7"	4
SP16 GC04	4'-0"	10'-6"	7"	24
SP17 GC04	4'-0"	11'-4"	7"	7
SP32 GC04	4'-0"	14'-1"	7"	4
SP18 GC04	4'-0"	18'-2"	7"	4
SP19 GC04	4'-0"	11'-5"	7"	6
SP20 GC04	4'-0"	10'-1"	7"	6
SP21 GC04	4'-0"	14'-7"	7"	3
SP22 GC04	4'-0"	11'-2"	7"	3
SP23 GC04	4'-0"	12'-0"	7"	3
SP24 GC04	4'-0"	13'-3"	7"	3
SP25 GC04	4'-0"	11'-7"	7"	8
SP26 GC04	4'-0"	10'-4"	7"	11
SP27 GC04	4'-0"	13'-6"	7"	4
SP28 GC04	4'-0"	11'-0"	7"	4
SP29 GC04	4'-0"	11'-1"	7"	9
SP30 GC04	4'-0"	14'-5"	7"	3
SP31 GC04	4'-0"	15'-9"	7"	3

(1) CONTRACTOR MAY INCREASE THE STANDARD CENTER PANEL HEIGHTS, MAXIMUM 8FT, TO MINIMIZE THE NUMBER OF JOINTS. THE ADJACENT TOP PANEL MAY ALSO BE ADJUSTED, PROVIDED STANDARD PANEL HEIGHTS AS SHOWN IN STANDARD G16 ARE USED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

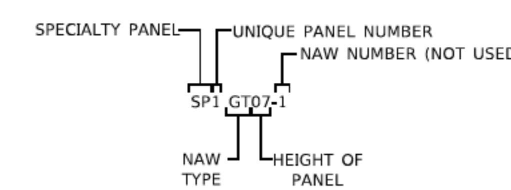
NAW TYPE

GT = NON-CRASHWORTHY GROUND MOUNTED TOP PANEL
GC = NON-CRASHWORTHY GROUND MOUNTED CENTER PANEL
* GBU = NON-CRASHWORTHY GROUND MOUNTED BOTTOM PANEL (UNBALANCED SOIL LOAD)
SP = SPECIALTY PANEL

* THESE PANELS HAVE BEEN DESIGNED FOR THE MAXIMUM UNBALANCED SOIL LOAD.



TYPICAL PANEL NAMING CONVENTION



SPECIALTY PANEL NAMING CONVENTION

NOTES:

1. WORK THIS SHEET WITH ILLINOIS TOLLWAY STANDARD G15.

NOTE 2 REMOVED.

DRAWN BY MAF	DATE 5/26/2020	CHECKED BY KN	DATE 5/26/2020

LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

NOISE ABATEMENT WALL TS19.20N, SB
PANEL SCHEDULE

SHEET NO. NWM - 9 OF 30

DRAWING NO. 1225 OF 1762

EARTHWORK SCHEDULE OF QUANTITIES

LOCATION	EARTHWORK VOLUMES (CU YD)				
	EARTH EXCAVATION 20200100	UNSUITABLE MATERIAL 20201200	SUITABLE EXCAVATION, (ADJUSTED FOR SHRINKAGE, 15%)	EMBANKMENT	EARTHWORK BALANCE [EXCESS (+) /SHORTAGE (-)]
	A	C	L=[(A-J) x SS]	M	N= L-M
ROBERTS RD (11+50 TO 22+20)	2,267	1,792	1,246	88	1,158
87TH ST (WEST LEG, 123+03 TO 128+50)	1,223	542	520	7	513
87TH ST (EAST LEG, 130+00 TO 135+35)	1,640	723	1,277	8	1,269
FRONTAGE RD	0	134	0	116	-116
TOTAL	5,130	3,191	3,043	219	2,824

EARTHWORK SCHEDULE OF QUANTITIES

LOCATION	ENVIRONMENTAL CLASSIFICATION (CU YD)			
	EARTH EXCAVATION TYPE 2 APPROVED	EARTH EXCAVATION TYPE 4 APPROVED	EARTH EXCAVATION NOT APPROVED (TYPE 1)	UNSUITABLE MATERIAL NOT APPROVED (TYPE 1)
	G	I	J	J2
ROBERTS RD (11+50 TO 22+20)	809	656	801	696
87TH ST (WEST LEG, 123+03 TO 128+50)	140	472	611	308
87TH ST (EAST LEG, 130+00 TO 135+35)	752	751	138	146
FRONTAGE RD	0	0	0	134
TOTAL	1,701	1,879	1,550	1,284

EARTHWORK SCHEDULE OF TOPSOIL QUANTITIES

LOCATION	EARTHWORK VOLUMES (CU YD)				ENVIRONMENTAL CLASSIFICATION (CU YD)	
	TOPSOIL STRIPPING	TOPSOIL STRIPPING, (ADJUSTED FOR SHRINKAGE, 0%)	TOPSOIL PLACEMENT	TOPSOIL BALANCE [EXCESS (+) /SHORTAGE (-)	TYPE 2 APPROVED	TYPE 4 APPROVED
	Q	R=(Q) x 1	S	R-S	V	X
ROBERTS RD (11+50 TO 22+20)	253	253	318	-65	230	23
87TH ST (WEST LEG, 123+03 TO 128+50)	73	73	208	-135	23	50
87TH ST (EAST LEG, 130+00 TO 135+35)	135	135	157	-22	59	76
FRONTAGE RD	0	0	404	-404	0	0
TOTAL	461	461	1,087	-626	312	149

EARTHWORK SCHEDULE OF INCIDENTAL QUANTITIES

LOCATION	EARTHWORK VOLUMES (CU YD)		ENVIRONMENTAL CLASSIFICATION (CU YD)		
	DRAINAGE EXCAVATION	SIGNALS AND LIGHTING EXCAVATION	TYPE 2 APPROVED*	TYPE 4 APPROVED*	NOT APPROVED (TYPE 1)
					CC
ROBERTS RD (11+50 TO 22+20)	475	46	80	146	295
87TH ST (WEST LEG, 123+03 TO 128+50)	298	0	0	10	288
87TH ST (EAST LEG, 130+00 TO 135+35)	274	0	110	19	145
FRONTAGE RD	0	0	0	0	0
TOTAL	1,047	46	190	175	728

*THIS EXCAVATION AND DISPOSAL IS NOT PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE ASSOCIATED WORK ITEM.

BILL OF MATERIAL SUMMARY TABLE

PAY ITEM NO.	DESIGNATION	TOTAL	UNITS	CALCULATION NOTES:
20200100	EARTH EXCAVATION	5,130	CU YD	A
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	3,191	CU YD	C
21101505	TOPSOIL EXCAVATION AND PLACEMENT	461	CU YD	WHEN Q<R, THEN Q OR WHEN Q>R, THEN R
21101625	TOPSOIL FURNISH AND PLACE, 6"	3,756	SQ YD	WHEN S>R, THEN (S-R)/THICKNESS IN YARDS
JT202009	NON-SPECIAL WASTE DISPOSAL, TYPE 1	3,562	CU YD	J+J2+CC

NOTES:

1. "SOILS NOT APPROVED" SHALL NOT BE REUSED ON THE ILLINOIS TOLLWAY ROW AND SHALL BE DISPOSED OF AS EARTH EXCAVATION OR NON-SPECIAL WASTE DISPOSAL, TYPE 1 DEPENDING ON THE SOILS CLASSIFICATION.

2. "SOILS APPROVED WITH RESTRICTION" CAN BE REUSED IN THE FOLLOWING MUNICIPALITIES WHICH HAVE IEPA APPROVED GROUNDWATER ORDINANCES: HICKORY HILLS.

3. SOILS APPROVED WITH RESTRICTION THAT CANNOT BE REUSED WITHIN THE PROJECT AND SOILS NOT APPROVED MUST BE REMOVED AS EITHER NON-SPECIAL WASTE DISPOSAL, TYPE 1, THROUGH AN EXCAVATION PAY ITEM, OR INCLUDED IN THE COST OF THE ASSOCIATED WORK ITEM.

4. INCIDENTAL EXCAVATION IS OUTLINED IN A SEPARATE TABLE WHICH IDENTIFIES ENVIRONMENTAL SOIL CLASSIFICATION AND IS NOT CONSIDERED IN THE CALCULATION FOR SUITABLE EXCAVATION. THIS IS FOR INFORMATION ONLY EXCEPT FOR QUANTITIES OF TYPE 1 SOIL FOR DISPOSAL. PERFORMANCE BASED RETAINING WALLS EXCAVATION IS INCLUDED AS INCIDENTAL TO THE RETAINING WALL AND ASSUMED AS MSE UNLESS OTHERWISE STATED BY THE DESIGNER. QUANTITIES MAY BE ADJUSTED BASED ON WALL DESIGN.

5. WHEN THERE IS EXCESS SOIL APPROVED FOR REUSE OR APPROVED FOR REUSE WITH RESTRICTION, THE CONTRACTOR SHALL FIRST REUSE ENVIRONMENTAL SOILS TYPE 1 TO MINIMIZE THE VOLUME OF MATERIAL DISPOSED AT A NON-SPECIAL WASTE DISPOSAL FACILITY.

6. SUITABLE EXCAVATION, L, REPRESENTS SUITABLE EXCAVATED MATERIAL VOLUMES ADJUSTED FOR SHRINKAGE AND ONLY INCLUDES EARTHWORK VOLUMES ASSOCIATED WITH EARTH EXCAVATION, A.

7. THE COST TO PLACE AND COMPACT SUITABLE MATERIAL GENERATED FROM STRUCTURE EXCAVATION IN ACCORDANCE WITH THE EMBANKMENT (ILLINOIS TOLLWAY) SPECIAL PROVISION SHALL BE INCLUDED IN THE COST OF STRUCTURE EXCAVATION.

8. SS IS THE SHRINKAGE FACTOR, WHICH IS DETERMINED TO BE 15%. SST IS THE TOPSOIL SHRINKAGE FACTOR, WHICH IS DETERMINED TO BE 0%.

1

DRAWN BY	KLM	DATE 05/26/2020
CHECKED BY	ATH	DATE 05/26/2020

AECOM

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET
EARTHWORK SCHEDULE

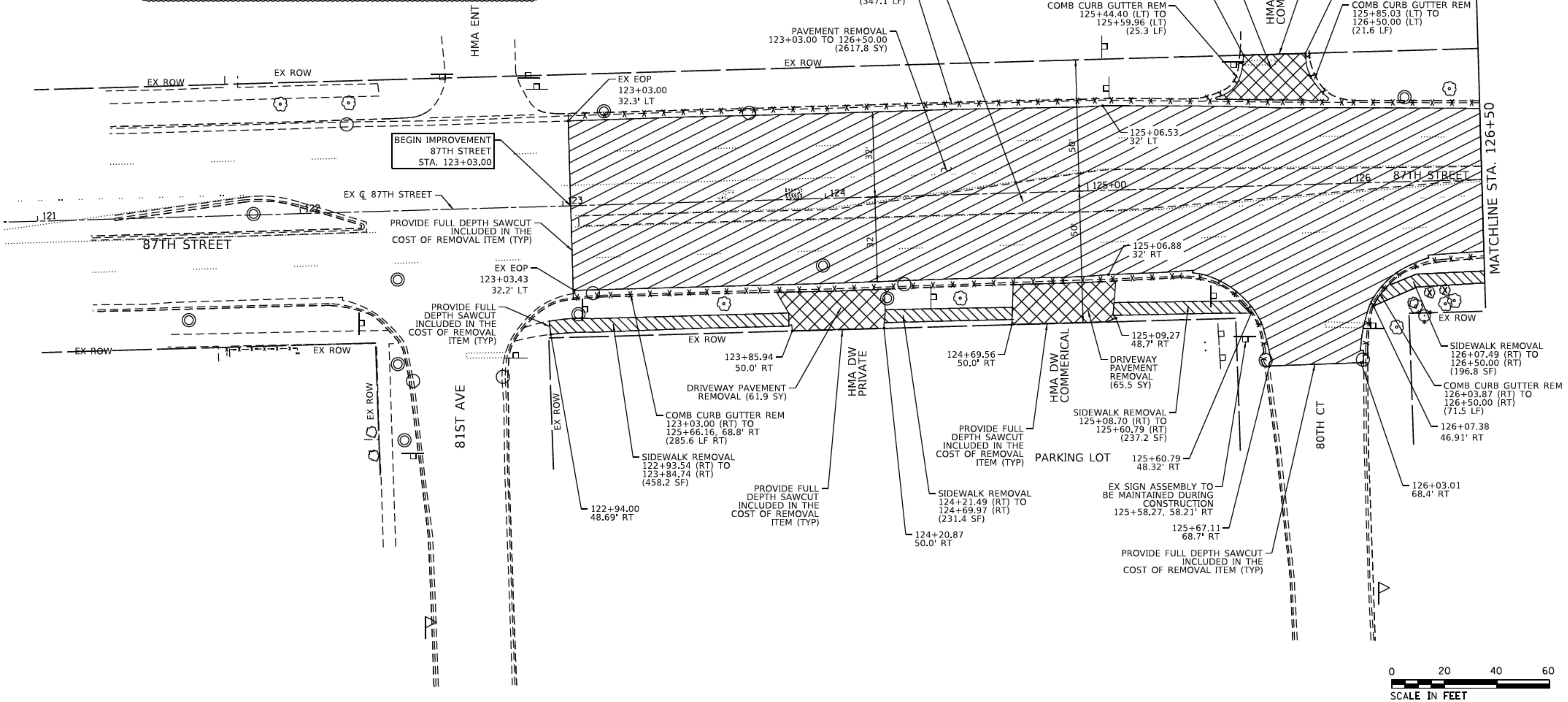
CCSCH-22

DRAWING NO.
1574 OF 1762

LEGEND

X X X	COMB CURB AND GUTTER REM, CURB REM, OR FENCE REM
(hatch)	PAVEMENT REMOVAL
(hatch)	SIDEWALK REMOVAL (COST INCLUDES THE REMOVAL OF DETECTABLE WARNINGS)
(crosshatch)	DRIVEWAY PAVEMENT REMOVAL
(X)	TREE REMOVAL

NOTES:
1. FOR REMOVAL OF EXISTING DRAINAGE ITEMS SEE DRAINAGE PLANS.
2. FOR REMOVAL OF EXISTING STREET LIGHTING ITEMS SEE LIGHTING PLANS.
3. FOR REMOVAL OR RELOCATION OF EXISTING UTILITIES SEE UTILITY PLANS.
4. FOR REMOVAL OF EXISTING SIGN PANELS AND SIGN PANEL ASSEMBLIES SEE PAVEMENT MARKING & SIGNING PLANS.
5. FOR REMOVAL OF EXISTING TRAFFIC SIGNAL ITEMS SEE TRAFFIC SIGNAL PLANS.
6. ANY REMOVAL OF SIDEWALK SHALL BE TO THE NEAREST JOINT.
7. STRIP TOP 6" OF TOPSOIL IN PARKWAYS AS PART OF EXCAVATION AND PLACEMENT OF TOPSOIL, EXCEPT IN LOCATIONS IDENTIFIED AS NOT APPROVED FOR REUSE. SEE SECTION 211 OF THE STANDARD SPECIFICATIONS. ⚠



DRAWN BY	KLM	DATE 05/26/2020	AECOM
CHECKED BY	ATH	DATE 05/26/2020	

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
⚠	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET REMOVAL PLAN

CCREM-01

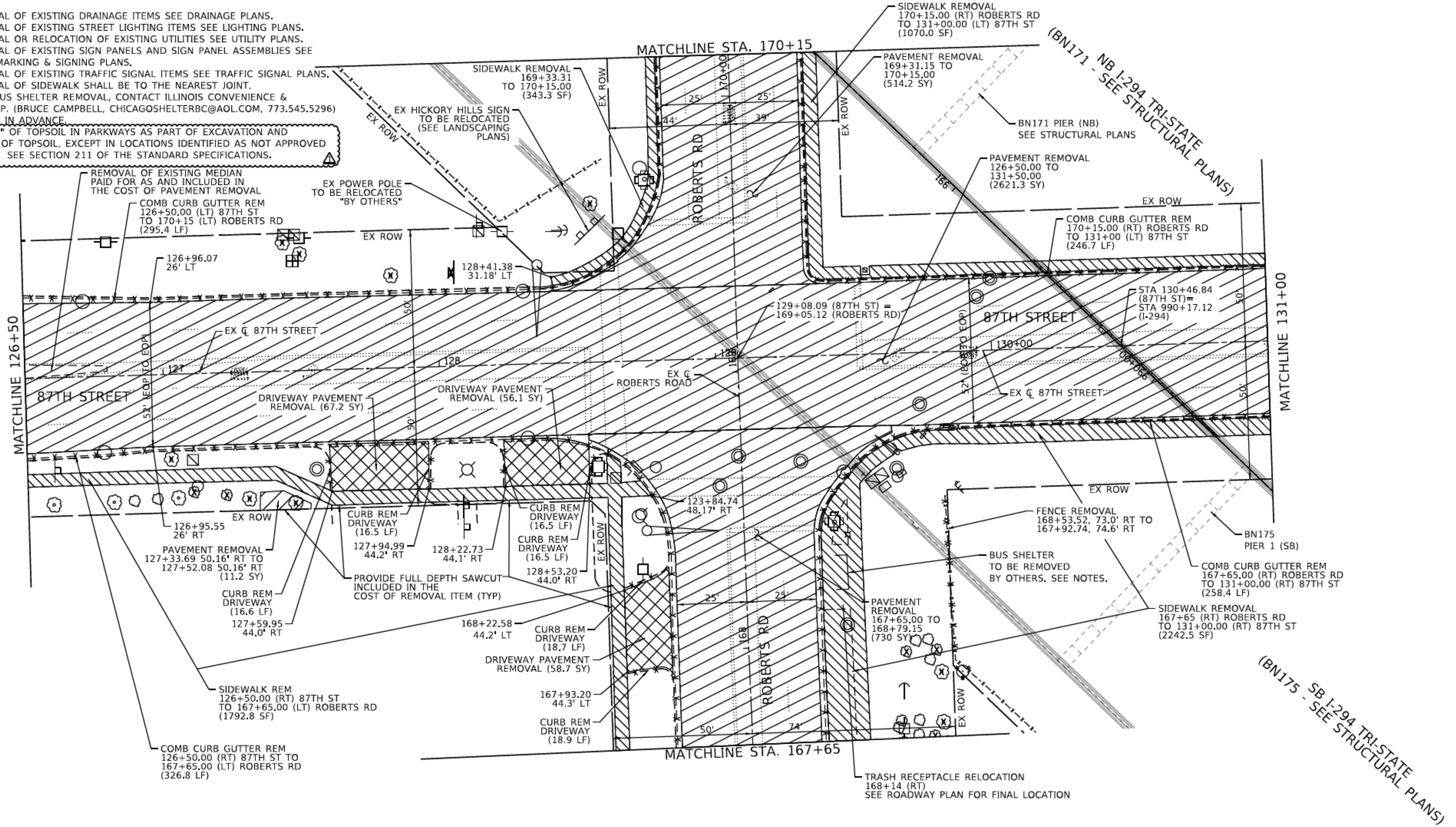
DRAWING NO. 1603 OF 1762

PLOT TIME = 2:11:38 PM PLOT DATE = 6/22/2020 PLOT SCALE = 40.0000 ' / in.

LEGEND

x x x	COMB CURB AND GUTTER REM, CURB REM, OR FENCE REM
(hatch)	PAVEMENT REMOVAL
(hatch)	SIDEWALK REMOVAL (COST INCLUDES THE REMOVAL OF DETECTABLE WARNINGS)
(cross-hatch)	DRIVEWAY PAVEMENT REMOVAL
(X)	TREE REMOVAL

NOTES:
1. FOR REMOVAL OF EXISTING DRAINAGE ITEMS SEE DRAINAGE PLANS.
2. FOR REMOVAL OF EXISTING STREET LIGHTING ITEMS SEE LIGHTING PLANS.
3. FOR REMOVAL OR RELOCATION OF EXISTING UTILITIES SEE UTILITY PLANS.
4. FOR REMOVAL OF EXISTING SIGN PANELS AND SIGN PANEL ASSEMBLIES SEE PAVEMENT MARKING & SIGNING PLANS.
5. FOR REMOVAL OF EXISTING TRAFFIC SIGNAL ITEMS SEE TRAFFIC SIGNAL PLANS.
6. ANY REMOVAL OF SIDEWALK SHALL BE TO THE NEAREST JOINT.
7. FOR PACE BUS SHELTER REMOVAL, CONTACT ILLINOIS CONVENIENCE & SAFETY CORP. (BRUCE CAMPBELL, CHICAGOSHELTERBC@AOL.COM, 773.545.5296) TWO WEEKS IN ADVANCE.
8. STRIP TOP 6" OF TOPSOIL IN PARKWAYS AS PART OF EXCAVATION AND PLACEMENT OF TOPSOIL, EXCEPT IN LOCATIONS IDENTIFIED AS NOT APPROVED FOR REUSE. SEE SECTION 211 OF THE STANDARD SPECIFICATIONS. (1)



DRAWN BY	KLM	DATE 05/26/2020	AECOM
CHECKED BY	ATH	DATE 05/26/2020	

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

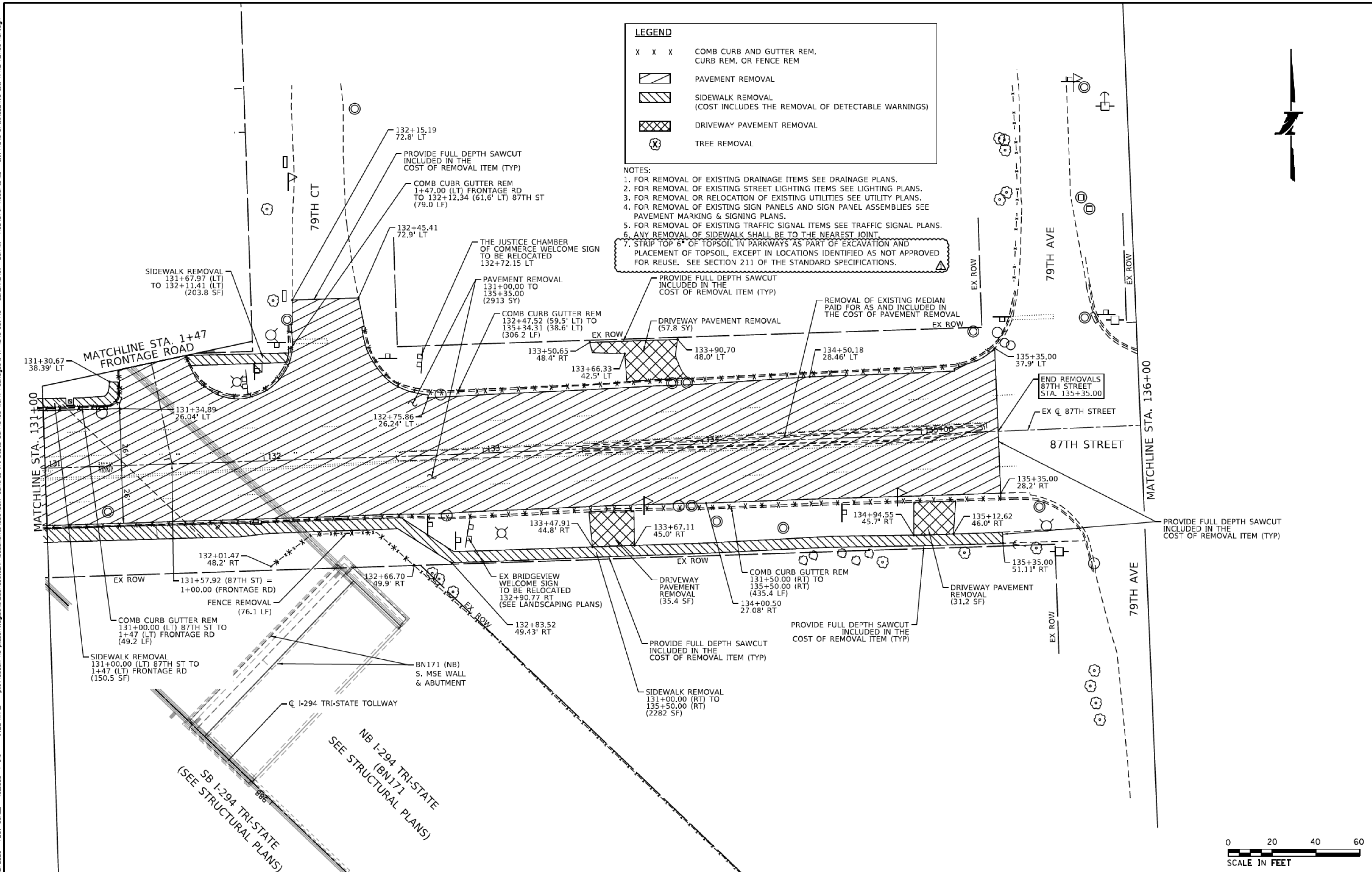
NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET REMOVAL PLAN

CCREM-02

DRAWING NO. 1604 OF 1762



LEGEND

X X X	COMB CURB AND GUTTER REM, CURB REM, OR FENCE REM
(hatch)	PAVEMENT REMOVAL
(hatch)	SIDEWALK REMOVAL (COST INCLUDES THE REMOVAL OF DETECTABLE WARNINGS)
(crosshatch)	DRIVEWAY PAVEMENT REMOVAL
(X)	TREE REMOVAL

NOTES:

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DRAWN BY	KLM	DATE 05/26/2020
CHECKED BY	ATH	DATE 05/26/2020

AECOM

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION
△1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET
REMOVAL PLAN

CCREM-03

DRAWING NO. 1605 OF 1762

LEGEND

x x x	COMB CURB AND GUTTER REM, CURB REM, OR FENCE REM
(hatch)	PAVEMENT REMOVAL
(hatch)	SIDEWALK REMOVAL (COST INCLUDES THE REMOVAL OF DETECTABLE WARNINGS)
(crosshatch)	DRIVEWAY PAVEMENT REMOVAL
(X)	TREE REMOVAL

NOTES:
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2. FOR REMOVAL OF EXISTING STREET LIGHTING ITEMS SEE LIGHTING PLANS.
3. FOR REMOVAL OR RELOCATION OF EXISTING UTILITIES SEE UTILITY PLANS.
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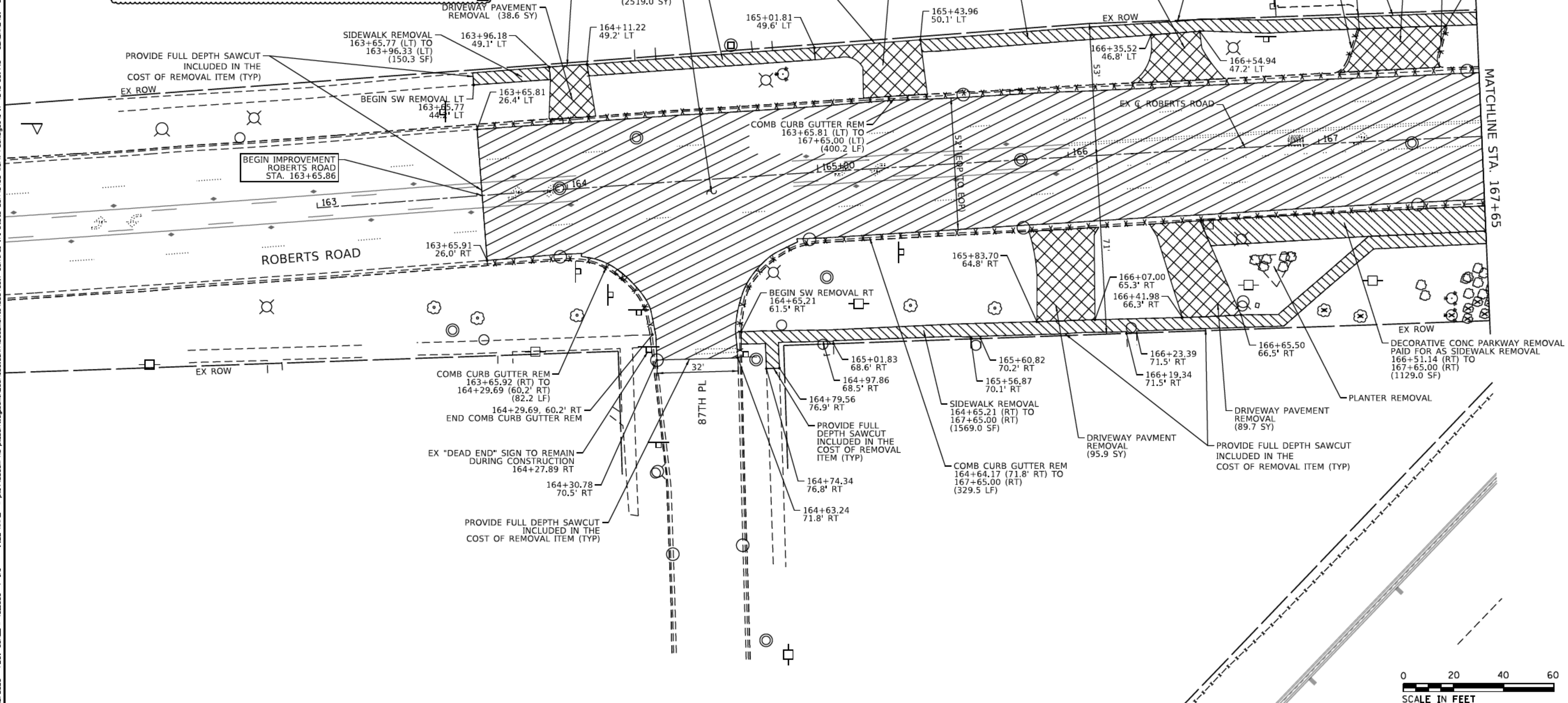


PROVIDE FULL DEPTH SAWCUT INCLUDED IN THE COST OF REMOVAL ITEM (TYP)
SIDEWALK REMOVAL 164+11.22 (LT) TO 165+01.81 (LT) (432.3 SF)
PAVEMENT REMOVAL 163+65.86 TO 167+65.00 (2519.0 SY)
DRIVEWAY PAVEMENT REMOVAL (38.6 SY)
SIDEWALK REMOVAL 163+65.77 (LT) TO 163+96.33 (LT) (150.3 SF)
163+96.18 49.1' LT
164+11.22 49.2' LT
BEGIN SW REMOVAL LT 163+65.77 44.1' LT
163+65.81 26.4' LT
BEGIN IMPROVEMENT ROBERTS ROAD STA. 163+65.86
EX ROW
ROBERTS ROAD
163
164
165+00
166
167
163+65.91 26.0' RT
DRIVEWAY PAVEMENT REMOVAL (69.6 SY)
DRIVEWAY PAVEMENT REMOVAL (51.9 SY)
SIDEWALK REMOVAL 165+43.96 (LT) TO 167+50.00 (LT) (1096.1 SF)
165+01.81 49.6' LT
165+43.96 50.1' LT
COMB CURB GUTTER REM 163+65.81 (LT) TO 167+65.00 (LT) (400.2 LF)
57' (EOP TO EOP)
53'
71'
166+35.52 46.8' LT
166+54.94 47.2' LT
EX ℄ ROBERTS ROAD
PROVIDE FULL DEPTH SAWCUT INCLUDED IN THE COST OF REMOVAL ITEM (TYP)
167+18.24 45.0' LT
CURB REM (20.0 LF)
DRIVEWAY PAVEMENT REMOVAL (65.7 SY)
CURB REM (18.0 LF)
167+52.67 44.7' LT
MATCHLINE STA. 167+65
165+83.70 64.8' RT
166+07.00 65.3' RT
166+41.98 66.3' RT
BEGIN SW REMOVAL RT 164+65.21 61.5' RT
COMB CURB GUTTER REM 163+65.92 (RT) TO 164+29.69 (60.2' RT) (82.2 LF)
164+29.69, 60.2' RT END COMB CURB GUTTER REM
EX "DEAD END" SIGN TO REMAIN DURING CONSTRUCTION 164+27.89 RT
164+30.78 70.5' RT
PROVIDE FULL DEPTH SAWCUT INCLUDED IN THE COST OF REMOVAL ITEM (TYP)
32'
87TH PL
165+01.83 68.6' RT
164+97.86 68.5' RT
164+79.56 76.9' RT
PROVIDE FULL DEPTH SAWCUT INCLUDED IN THE COST OF REMOVAL ITEM (TYP)
164+74.34 76.8' RT
164+63.24 71.8' RT
165+60.82 70.2' RT
165+56.87 70.1' RT
SIDEWALK REMOVAL 164+65.21 (RT) TO 167+65.00 (RT) (1569.0 SF)
COMB CURB GUTTER REM 164+64.17 (71.8' RT) TO 167+65.00 (RT) (329.5 LF)
DRIVEWAY PAVMENT REMOVAL (95.9 SY)
166+23.39 71.5' RT
166+19.34 71.5' RT
DRIVEWAY PAVEMENT REMOVAL (89.7 SY)
PROVIDE FULL DEPTH SAWCUT INCLUDED IN THE COST OF REMOVAL ITEM (TYP)
166+65.50 66.5' RT
PLANTER REMOVAL
DECORATIVE CONC PARKWAY REMOVAL PAID FOR AS SIDEWALK REMOVAL 166+51.14 (RT) TO 167+65.00 (RT) (1129.0 SF)
EX ROW
0 20 40 60
SCALE IN FEET

DRAWN BY	KLM	DATE 05/26/2020	
CHECKED BY	ATH	DATE 05/26/2020	

AECOM

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

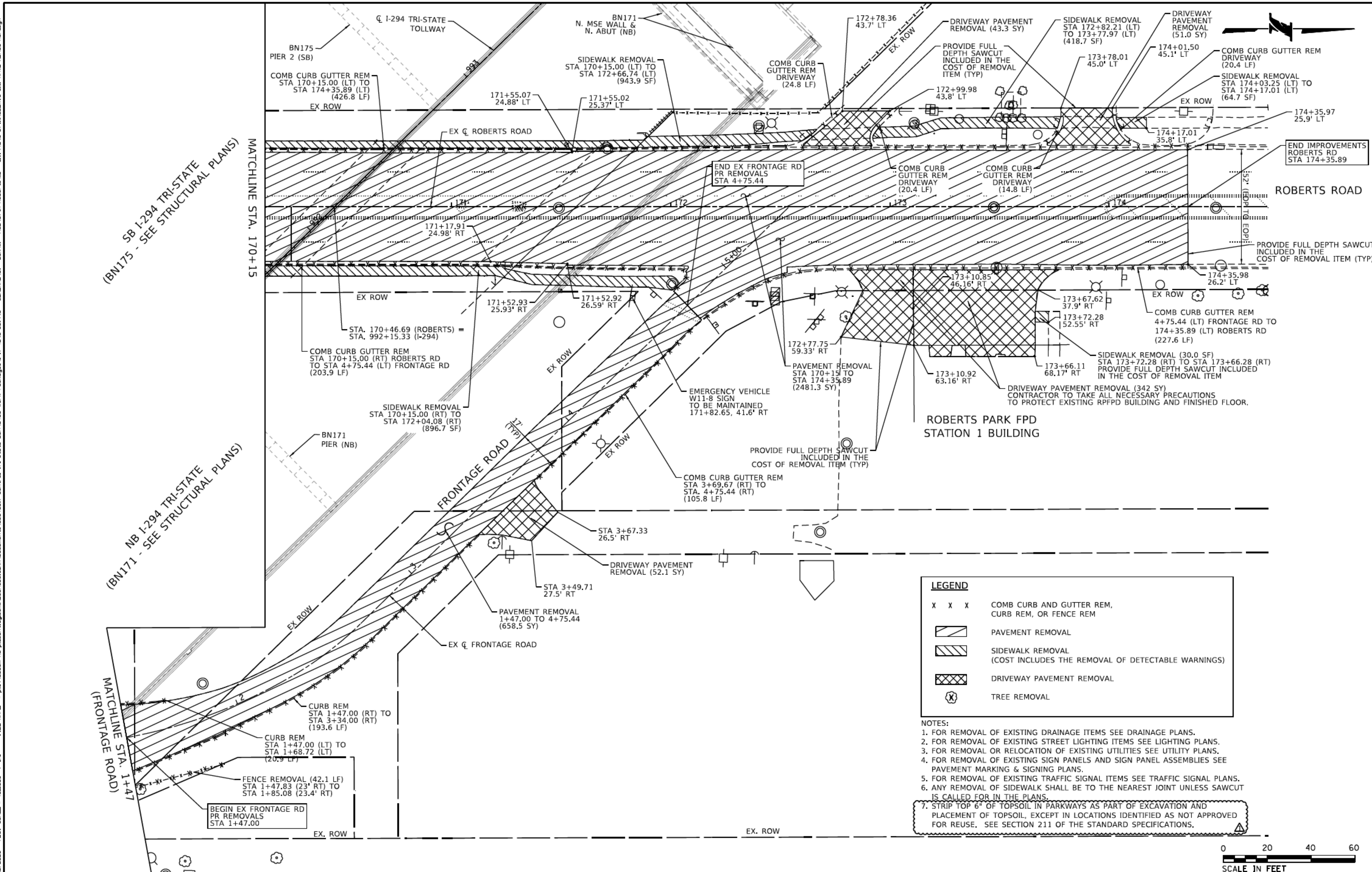
CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET REMOVAL PLAN

CCREM-05

DRAWING NO. 1607 OF 1762

PLOT TIME = 2:20:58 PM PLOT DATE = 6/22/2020 PLOT SCALE = 40.0000 ' / in. FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\3-I-4296-SG1\98 - GENERAL\01 - DON\11 - MOD\87th Roberts\12 - SHT\4296-87THROBERTS-SHT-RMVL-REM05-ACM.dgn



LEGEND

X X X	COMB CURB AND GUTTER REM, CURB REM, OR FENCE REM
(symbol)	PAVEMENT REMOVAL
(symbol)	SIDEWALK REMOVAL (COST INCLUDES THE REMOVAL OF DETECTABLE WARNINGS)
(symbol)	DRIVEWAY PAVEMENT REMOVAL
(X)	TREE REMOVAL

NOTES:
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5. FOR REMOVAL OF EXISTING TRAFFIC SIGNAL ITEMS SEE TRAFFIC SIGNAL PLANS.
6. ANY REMOVAL OF SIDEWALK SHALL BE TO THE NEAREST JOINT UNLESS SAWCUT IS CALLED FOR IN THE PLANS.
7. STRIP TOP 6" OF TOPSOIL IN PARKWAYS AS PART OF EXCAVATION AND PLACEMENT OF TOPSOIL, EXCEPT IN LOCATIONS IDENTIFIED AS NOT APPROVED FOR REUSE. SEE SECTION 211 OF THE STANDARD SPECIFICATIONS. △1

DRAWN BY	KLM	DATE 05/26/2020	AECOM
CHECKED BY	ATH	DATE 05/26/2020	

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	7/21/2020	ADDENDUM NO. 1

CONTRACT NO. I-20-4517

ROBERTS ROAD AND 87TH STREET REMOVAL PLAN

CCREM-06

DRAWING NO. 1608 OF 1762

PLOT TIME = 2:23:35 PM PLOT DATE = 6/22/2020 PLOT SCALE = 40.0000 ' / in. FILE NAME = pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60545817-Central Tri-State DCM\0400 Work Packages\I-17-4296-SG\198 - GENERAL\01 - DOM\11 - MOD\87th Roberts\12 - SHT\4296-87THROBERTS-SHT-RMVL-REM06-ACM.dgn

Capital Program

MEETING MINUTES

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

CHAIRPERSON: Frank Fratto (Illinois Tollway)

LOCATION: Virtual Meeting

ISSUE DATE: 07/21/2020

PREPARED BY: Ben Zeman (HDR, Inc.)

DISTRIBUTE TO: Attendees per Sign-In Sheet

MEETING MINUTES

Item	Description	Responsibility	Due Date
1.0	**Open; Welcome; Self-introduction by Procurement Representative**	**n/a**	**n/a**
2.0	**Self-Introduction of Attendees** (see sign-in via WebEx)	**n/a**	**n/a**
3.0	**Brief Project Description**	**n/a**	**n/a**
3.1	Project Overview - The improvements to be constructed under this contract shall be performed along the Tri-State Tollway (I-294) Tollway between Mile Post 17.5 and Mile Post 19.7 in Cook County, Illinois. The work under this contract includes, but is not limited to: Retaining wall demolition and construction; Noise abatement wall demolition and construction; Demolition of bridges no. 171, 173 and 175; Construction of bridges no. 171 and 175; ITS gantry and overhead sign structure construction; Enclosed drainage system removal and construction; Roadway pavement removal and construction; Erosion control and landscaping; Guardrail and barrier wall removal and construction; Roadway lighting removal and construction; Pavement marking and signage installation; Maintenance of traffic during construction; Protection and/or relocation of utilities; Reconstruction of the intersection of	n/a	n/a

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

	87th Street and Roberts Road; and All other appurtenant and miscellaneous construction shown on the plans and within the special provisions.		
3.2	Unique Project Elements – This project includes work completed on Tollway, IDOT, Cook County, and local agency jurisdiction; composite pavement construction without the final overlay; multiple structures (e.g., bridges, retaining walls, sign structures) within close proximity; ground mounted, ground mounted crashworthy, and structure mounted noise abatement walls; coordination with local municipal agencies; coordination with permitting agencies; and coordination with multiple adjacent Tollway and IDOT projects.	n/a	n/a
4.0	**Advertisement Schedule** The following advertisement schedule was mentioned. Final Date for Plan Holder Questions: July 8, 2020 Bid Opening Date: August 7, 2020	**n/a**	**n/a**
5.0	**Compliance Goals** The following compliance goals were mentioned. Disadvantaged Business Enterprise Program (DBE): 22% Veteran-Owned Small Business Program (VOSB): 0.5% Workforce – Equal Employment Opportunity (EEO) Minority: 19.5% Female: 6.9%	**n/a**	**n/a**

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

6.0	**Diversity Programs** The following programs were mentioned as being available to the contractors: • Earned Credit Program (ECP) Bid Credit Cap • Technical Assistance Program • Partnering for Growth (P4G) • Small Business Initiative • Construction Works	**n/a**	**n/a**
7.0	**Project Schedule** The following project schedule was mentioned. Anticipated Notice-to-Proceed • SP 104 NTP – November 16, 2020 • SP 104 Commencement of Onsite Work – March 29, 2021 Interim Completion Dates • SP 103.3 – July 17, 2021 • SP 103.4 – July 17, 2021 • SP 103.5 – November 24, 2021 • SP 103.6 – August 4, 2022 • SP 103.7 – October 28, 2022 • SP 103.8 – June 2, 2023 • SP 103.9 – 75 Calendar Days for specified noise abatement wall replacements Substantial Completion Date – October 18, 2023 Contract Completion Date – November 17, 2023 Completion Incentive Payment Plan(s) • SP 105.2.3 – Interim Completion Incentive Payment Plan up to November 10, 2021 • SP 105.2.4 – Interim Completion Incentive Payment Plan up to October 14, 2022	**n/a**	**n/a**

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

8.0	**Special Items to Note** The following items were mentioned at the pre-bid meeting. Utility Relocation Status • Nicor – gas main anticipated to be relocated during construction, will require coordination by Contractor. • ComEd – Relocations to be completed prior to construction • Various communication companies relocations to be completed prior to construction • Justice-Willow Springs Water Commission Watermain to be relocated by contractor • City of Hickory Hills Storm Sewer Force Main and Sanitary Sewer to be relocated by contractor Property Acquisition Status • See SP 118 for full list Permits including Right-of-Entry Permits • SP 106.1 – Illinois Department of Transportation (IDOT) Highway Permit • SP 106.2 – Cook County Department of Transportation and Highways (CCDOTH) Highway Permit • SP 106.9 – Federal Aviation Administration (FAA) Permit • SP 106.10 – Coordination with Permitting Agencies – IEPA, USACE, MWRD • SP 106.18 – Coordination of Bridge/Culvert Work for Bat Inspection Coordination with Other Tollway Departments	**n/a**	**n/a**

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

	Coordination with Railroads & Other Agencies • SP 106.1 – IDOT • SP 106.2 – CCDOTH • SP 106.7 – Roberts Park Fire Protection District • SP 106.8 – Pace Suburban Bus Service Coordination with Adjacent Municipalities • SP 106.4 – Village of Justice • SP 106.5 – City of Hickory Hills • SP 106.6 – Village of Bridgeview Coordination with Adjacent Contractors – See SP 106.3 for the full list • Contract I 18 4430: Roadway and Bridge Reconstruction, Northbound Mile Long Bridge Construction, Tri-State Tollway (I-294) • Contract I 18 4431: Roadway and Bridge Reconstruction, Bridge Demolition and Southbound Mile Long Bridge Construction, Tri-State Tollway (I-294) • Contract I-19-4481 Tri-State Tollway Roadway and Bridge Reconstruction, Archer Avenue (IL-171) Interchange • Contract I-19-4506: Tri-State Tollway Shoulder Rehabilitation and Traffic Crossover Construction, 95th Street to LaGrange Rd • Contract I-20-4518 Tri-State Tollway Roadway Reconstruction, Plazas 36 and 39 to LaGrange Rd • Cook County Project: Section 19-B4224-00-BR, 87th Street Bridge over Baltimore & Ohio Chicago Terminal Railroad, Deck Replacement and Repairs • IDOT Project: Harlem Avenue (IL-43) Roadway Resurfacing, 52nd Street to 111th Street		

MEETING MINUTES

PURPOSE/PROJECT #: Optional Pre-Bid Meeting – Contract I-20-4517
Central Tri-State Tollway (I-294)
Roadway and Bridge Reconstruction
95th Street to Plaza 36

MEETING DATE/TIME: June 29, 2020
10:30 am

	• IDOT Project: LaGrange Road (US-12/20/45) Bridge over Santa Fe Drive, Sanitary & Ship Canal, I&M Canal and Illinois Central Railroad, Deck Replacement and Repairs		
9.0	**Revisions to Contract / Addenda** The Addendum 1 Release Schedule & Contents were discussed. • On or around July 21, 2020 – Revisions to Cook County Intersection, various minor plan and special provision revisions Addendum 2 may be issued if necessary.	**n/a**	**n/a**
10.0	**Responses to Plan Holder Questions** No comments have been received to date.	**n/a**	**n/a**
11.0	**Open Discussion / Questions** There was no further discussion or questions. The meeting adjourned at 10:50am.	**n/a**	**n/a**

Please notify the preparer of any corrections and/or clarifications within 5 business days.

Manage Registrations: 4517 Optional Pre-Bid Meeting

English : Chicago Time

Event on Monday, June 29, 2020 10:30 am

Pending (0) | Approved (19) | Rejected (0) | **All (19)**

Maximum registrations allowed: 10000 Total registrations: 19

First Name	Last Name	Email Address	Registration ID	Status
Jeff	Allen	jallen@getipass.com	345329	Approved
Deavay	Tyler	[redacted]	425380	Approved
Peter	Vogt	peter.vogt@kiewit.com	453431	Approved
Ron	Manroe	estimating@ams-es.net	523469	Approved
Brandee	Scacco	brandee.scacco@r1midwest.com	433409	Approved
David	Brodowski	brodowskid@inventure-group.com	222891	Approved
Bob Rex	Rex	bob.rex@transparentnoisebarriers.com	346166	Approved
George	de oliveira	[redacted]	699997	Approved
Pete	Kane	pkane@ledrite.com	337322	Approved
Jeff	Meagher	jeff@hmcco.net	383307	Approved
Frank	Fratto	ffratto@getipass.com	766712	Approved
Daniel	Tschiniak	dan.tschiniak@dunnetbay.net	121396	Approved
Hope	Garrett	hgarrett@getipass.com	649228	Approved
Brett	Ditchman	bditchman@jbcco.com	611759	Approved
Hope	Garrett	[redacted]	101767	Approved
James	Kowalewski	jkowalewski@fhpaschen.com	702880	Approved
Shelli	Schweickert	sschweickert@burnsmcd.com	284667	Approved
Terrence	Tounsel	ttounsel@getipass.com	859629	Approved
John	Hartmann	j.hartmann@dunnetbay.net	263490	Approved

Go Back

REQUEST FOR INFORMATION RECEIVED FROM THE PLAN HOLDERS
FOR CONTRACT I-20-4517
ILLINOIS STATE TOLL HIGHWAY AUTHORITY

DATE: July 21, 2020

NOTICE TO PLAN HOLDERS

1. **QUESTION:**
Regarding Item JT546200 " Slotted Drains to Be Cleaned"

The specification says the slotted drains have to cleaned a minimum of one every month or at the discretion of the engineer. All the separate times that the slotted train is cleaned has to be included in the LF unit price. Is there any amount times that the slotted drain has be cleaned to put in our estimate or should estimate once a month to the amount cost that should be included in the unit price?

RESPONSE:
There is not a defined number of months that apply consistently to the entire contract quantity of Slotted Drains to be Cleaned. The Suggested Progress Schedule is located on Drawing Nos. 7 and 8. This schedule can be used to estimate the number of months that the various slotted drain locations will be in operation. The existing slotted drain that is currently located in the southbound outside shoulder will need to be in operation from Stage 1 through the completion of Winter Stage 1. The slotted drain that will be constructed in the median crossovers will need to be in operation from Stage 1 through the completion of Stage 4. The slotted drain that will be installed in the southbound side of median barrier wall in the areas between the crossover locations will be in operation through the completion of Stage 2.

2. **QUESTION:**
Article 105.04 requires shop drawings for precast concrete items as well as structural and misc. structural steel, which are the structural components for noise wall. It also requires "All shop drawings detailing the fabrication of structural components shall be prepared and sealed by a Structural Engineer currently licensed by the State of Illinois". Meanwhile, the special provision section 107.1 requires professional liability insurance for NAW Pay Items. Can ISTHA confirm that by sealing our shop drawings and providing professional liability insurance, we will not have any liability with the structural design? Is the intent for the supplier to only be liable for the shop drawings adhering to the contract documents without taking liability of the structural design?

RESPONSE:
Revised special provision for Precast Concrete Noise Abatement Wall included in addendum addresses the issues in this question. Note that shop drawings shall be prepared, submitted and sealed by a Structural Engineer. Also note that per Section 107.1 Professional Liability is required.

3. **QUESTION:**
Delivery, Storage, and Handling. The materials for the Precast Concrete Noise Abatement Walls shall be stored by the Contractor at a site(s) approved by the Engineer until the time of installation. The Contractor shall store material above ground on level platforms, covered and protected against wetting, and shall protect the materials from mechanical damage and damage due to excessive temperatures, sunlight, and moisture"

For the past 30 years, panels and columns have been stored outside covered and protected only with their respective coatings without issues. The special provisions require the columns to be galvanized and coated with a two-part epoxy paint and also require the already durable concrete panels be coated with the highest quality stain. Once covered and protected by staining, galvanizing and painting, these materials are built to last outside for a very long period of which their storage will be a very small fraction. Will these coatings (galvanizing, paint and stain) be considered as storing the materials "covered and protected against wetting… …and damage due to excessive temperatures, sunlight, and moisture"?

If we do account for the tremendous cost of a huge retractable roof, our panels will still not be protected from damage due to "excessive temperatures… …and moisture". Can ISTHA recommend any solution that will achieve this in IL, other than storing in a huge temperature and moisture-controlled enclosure, which would be an even greater cost?

RESPONSE:
Revised special provision for Precast Concrete Noise Abatement Wall included in addendum addresses the issues in this question. Note that storage of the panels and posts is at the Contractor's means and methods.

4. **QUESTION:**
The new standards call out a ¾" chamfer on all exposed edges of the panels. This will dramatically impact the wall aesthetics in a negative way. Millions of SF of noise abatement wall currently on the ISTHA system have been designed to minimize this joint so that the ashlar texture flows from panel to panel. By reducing the height allowed for panels and increasing the joints and then drawing attention to the joints with inevitable shadowing due to the chamfer, you are creating a very unusual look for an ashlar pattern. Just want to make sure this is the intention.

RESPONSE:
Revised special provision for Precast Concrete Noise Abatement Wall included in addendum allows the ¾" chamfer to be omitted at horizontal joints between panels if the ashlar pattern has been detailed to match the adjacent stacked panel.

5. **QUESTION:**
The specification states, "The Precast Concrete Noise Abatement Wall Panels shall be constructed with a square cut random ashlar rusticated limestone surface with a maximum relief along each side as shown on the details. The panel(s) height selected by the Fabricator should be compatible with Random Ashlar Limestone Form Liner Pattern." Just to clarify, if there is more than one panel between two columns, is the intent for the grout lines to line up from panel to panel to achieve a natural and continuous aesthetic or is the intent for each panel to have a formliner finish that is independent of the panel above or below?

RESPONSE:
Revised special provision for Precast Concrete Noise Abatement Wall included in addendum notes that the random ashlar limestone pattern shall be continuous for the full height of a panel section, regardless of the number of panels in a wall section. Note that the form liner pattern has been used before and manufacturers have lined up the pattern. The panel heights selected by the manufacturer should be compatible with the Random Ashlar Limestone form liner pattern and submitted for approval as part of the Shop Drawings.

6. **QUESTION:**
In the special provision under “Stain and Sealer” for the precast panels, it states “The base stain color of panels shall”, and it later states the stain “shall achieve color variations present in the natural stone being simulated for this project”. ISTHA walls have always been stained with a single, tan-type color to date. Is this saying that multiple colors of stain will have to be used?

RESPONSE:
The intent is to achieve color variations present in the natural stone. There is a standard base stain color stated in the Special Provisions and additional stains will be required to achieve the color variations.

7. **QUESTION:**
The standard drawings (Standard G13-00, CTS Str Mounted noise abatement wall details) show a 3” vertical reveal along each side of the panel in the “Typical Noise Wall Panel Detail” shown on the top left of the page. This detail shows Panel Width = 11’-6” max. Will the smooth reveal on each side of the panel be required for all panel widths (including short spans) or just the max width?

RESPONSE:
The smooth reveal on each side of the panel is required for all panel widths.

8. **QUESTION:**
The standard drawings (Standard G14-00, CTS Bumpout Mounted noise abatement wall details) show a 2 1/4” vertical reveal along each side of the panel in the “Typical Noise Wall Panel Detail” shown on the top right of the page. This detail shows Panel Width = 11’-6” max. Will the smooth reveal on each side of the panel be required for all panel widths (including short spans) or just the max width?

RESPONSE:
The smooth reveal on each side of the panel is required for all panel widths.

9. **QUESTION:**
The standard drawings (Standard G15-00, Non-Crashworthy Ground Mounted noise abatement wall details) show 2” vertical reveals on the ends of one face of the panel and 1’-0” vertical reveals on the opposite side in the “Ground Mounted Panel” detail shown mid-page. This same standard shows a 2” vertical reveal on all edges of both faces the panel in the “Ground Mounted Panel (Unbalanced Soil Load) detail shown on the top right of the page. This detail shows Panel Width = 19’-10” max. Will the smooth reveal on each side of the panel be required for all panel widths (including short spans) or just the max width?

RESPONSE:
The smooth reveal on each side of the panel is required for all panel widths.

10. **QUESTION:**
The standard drawings (Standard G16-00, Crashworthy Ground Mounted noise abatement wall details) show 3 5/8” vertical reveals on the ends of one face of the panel and 1’-0” vertical reveals on the opposite side in the “Ground Mounted Panel (No TL-4 Impact Load)” detail shown on the bottom right of the page. This same standard shows a 3 5/8” vertical reveal on all edges of both faces the panel in the “Ground Mounted Panel (TL-4 Impact Load) detail shown on the mid-left of the page. This detail shows Panel Width = 14’-10” max. Will the smooth reveal on each side of the panel be required for all panel widths (including short spans) or just the max width?

RESPONSE:
The smooth reveal on each side of the panel is required for all panel widths.

11. QUESTION:
ITS Removal plans show designations R0 through R6 to be pay item JT160226. This pay item is not in the SOQ. Is this supposed to be pay item JT160225?

RESPONSE:
The pay item used for the callouts should be JT160225 (SINGLE MODE FIBER OPTIC CABLE REMOVAL, SALVAGE). Plans have been updated with Addendum No. 1 to reflect this revision.

12. QUESTION:
For the electrical PVC casing pipes underneath 294, is it the intent for these pipes to be laid in with the pavement excavation? What is the required depth of these casing pipes? Typically these are 10 feet below pavement. If that is the case, can we install CNC conduit via directional bore method in lieu of deep trenched PVC conduit for these crossings?

RESPONSE:
A material substitution may be requested during construction and must be coordinated with ComEd.

13. QUESTION:
Pay item JT130751 (Install Prefabricated IPDC Facility): please confirm whether the prefabricated concrete step, bird deterrent, and/or air terminals will be provided with the ISTHA supplied building.

RESPONSE:
The concrete step needs to be provided. The bird deterrent and air terminals are provided by the Tollway.

14. QUESTION:
Pay item JT130751 (Install Prefabricated IPDC Facility): please provide information as to what will be included with this ISTHA supplied building.

RESPONSE:
As shown in the plans.

15. QUESTION:
Pay item JT130751 (Install Prefabricated IPDC Facility): Will the building come furnished complete with interior lighting and receptacles complete?

RESPONSE:
Yes.

16. QUESTION:
Pay item JT130751 (Install Prefabricated IPDC Facility): Will the building come furnished complete with all required HVAC components?

RESPONSE:
Yes.

17. QUESTION:
Pay item JT130751 (Install Prefabricated IPDC Facility): Will the ISTHA furnished building come with the natural gas standby generator?

RESPONSE:
No. The generator will be provided by others.

18. **QUESTION:**
For pay items JT830080, JT830090, and JT830094 (ISTHA Furnished Light Poles), will the Tollway be providing the anchor bolts for these poles?

RESPONSE:
No. Anchor bolts shall be furnished and installed by the Contractor.

19. **QUESTION:**
For pay items JT810502, JT810504, JT810506, JT810508, JT810510, please confirm that all of this duct is to be furnished by the Tollway.

RESPONSE:
Yes. Materials for pay items JT810502, JT810504, JT810506, JT810508, JT810510 are furnished by Tollway.

20. **QUESTION:**
Pay item JT830200 (Install Temporary Wood Pole 90 ft) are these poles and mast arms to be furnished by the Tollway?

RESPONSE:
Yes.

21. **QUESTION:**
Please confirm the temporary wood poles installed on this contract are all to be removed as a part of this contract.

RESPONSE:
Poles installed or relocated for interim ITS devices are to remain in place at the end of the contract.

22. **QUESTION 22:**
Per page 459 & 462: where is the removal of the temporary wood poles to be paid for? There is a quantity of 5 wood poles to be removed that have no pay item.

RESPONSE:
Temporary removal shall be as per 846.11 Tollway supplemental specification.

23. **QUESTION 23:**
How are the removals of existing junction boxes of pages 457-459 (QTY: 5) to be paid?

RESPONSE:
Removal of JB is included in associated wall removal.

24. **QUESTION 24:**
Per page 459, note 3, “Remove, store, and reinstall 10 existing…”, does ISTHA want us to store them ourselves? Or are we to return the sign luminaires to ISTHA for storage until we are ready to reinstall?

RESPONSE:
Contractor to store.

25. QUESTION 25:

Pages 477-480, notes 4 & 5 states, “No breakaway device needed for the ground mounted light pole located behind noise wall”. Of the 35 ground mounted poles, 19 have this note. Does this mean the other 16 of them should have breakaway devices? If so, where is this to be paid? There is only 5 breakaway devices in the bid quantity.

RESPONSE:

As per tollway supplemental specification 838.04 (apply to Tollway ground mounted poles) :
“Breakaway devices shall not be measured for payment when specified as part of Ground Mounted Light Poles as specified in these Supplemental Specifications Section 830 but shall be included in the cost of the Light Pole.”

26. QUESTION 26:

Per page 493, there is no pay item for the cable/conduit description, “K”- aerial cable, 3-1/C NO. 2 w/ messenger wire. How is this to be paid?

RESPONSE:

This will be paid under Electrical Service installation (TEMPORARY ELECTRIC SERVICE INSTALLATION).

27. QUESTION 27:

Per page 493, there is no pay item for the proposed temporary wood poles, Class 3, 30’. There is also no pay item for the proposed temporary lighting controller, pole mounted. How are these to be paid?

RESPONSE:

This will be paid under Electrical Service installation (TEMPORARY ELECTRIC SERVICE INSTALLATION).

28. QUESTION 28:

For the conduit/cable description on page 502, the pay items listed for “A”, “B”, “C”, “E” & “I” do not match any of the pay items in the bid quantities. Please correct.

RESPONSE:

Revised Drawing 502 has been provided as part of Addendum No. 1.

29. QUESTION 29:

Please confirm that all wall mounted light poles that are not included as either a Type 1 Median Foundation OR listed in the ‘Special Light Pole Foundations’ table will not require a drilled shaft foundation.

RESPONSE:

Light poles foundation as per Plans.

30. QUESTION 30:

Page 509 has a junction box (b/w duct package labeled “A” and duct package labeled “C”) has no station marker and is not labeled with the size or installation method. Please provide information.

RESPONSE:

Please review sheet ITS 39 and 41 for details.

31. **QUESTION 31:**
Page 510 has a junction box (b/w duct package labeled “A” and duct package labeled “C”) has no station marker and is not labeled with the size or installation method. Please provide information.

RESPONSE:
Please review sheet ITS 39 and 41 for details.

32. **QUESTION 32:**
Page 513, note 1 states, “The trench, detectable warning tape and sand backfill shall be paid for under JS819002. This pay item is not listed in the SOQ. Please provide the correct pay item that this will be paid under.

RESPONSE:
Warning tape will be paid as per 810.04 as specified in special provision for “INSTALL FURNISHED UNDERGROUND CONDUIT, COILABLE NON-METALLIC” and backfill will be paid as per special provision for "DUCT PACKAGE."

33. **QUESTION 33:**
Page 483, note 4, please provide the size of the conduit being intercepted.

RESPONSE:
Same as proposed.

34. **QUESTION 34:**
Page 484, note 3, please provide the size of the conduit being intercepted.

RESPONSE:
Same as proposed.

35. **QUESTION 35:**
Page 511, note 2, please provide the size of the conduit being intercepted.

RESPONSE:
Same as proposed.

END OF NOTICE TO PLAN HOLDERS