



March 8, 2023

Ms. Rosemary Chiavetta
Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

**Re: *Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B1A
S.R. 2045 Bridge Replacement***

Application of the Pennsylvania Turnpike Commission (PTC) for approval to replace an above grade public crossing by the installation of a single-span steel girder bridge where S.R. 2045 (Pittsburgh-McKeesport Blvd.) crosses Union Railroad Company's (URR's) Clairton Branch; PTC will fund the bridge replacement, but PennDOT will own and maintain the bridge located in the Borough of Dravosburg, Allegheny County, Pennsylvania.

Dear Ms. Chiavetta:

Enclosed is an update to the Public Utility Commission application **Docket A-2022-3036865**, including updated Exhibit C, and a certificate of service indicating that PDF copies of this update were e-mailed to each of the organizations listed. The proposed bridge location is now shifted ahead station 10-ft on-alignment to improve construction access based on coordination with the PA-Turnpike, PennDOT and the Union Railroad. Revised Type, Size & Location Plans for the proposed S.R. 2045 Bridge are attached.

If you have any questions specific to this update, please contact John Kennelly at 412-497-6059, or by email at john.kennelly@hdrinc.com.

Sincerely,

Brian F. Mostek, P.E.
Engineer Project Manager – Mon Fayette Expressway



ENGINEERING DEPARTMENT

Pennsylvania Turnpike Commission
PO Box 67676, Harrisburg PA 17106-7676
717.939.9551

ATTACHMENT:

Exhibit C (update) – Proposed S.R. 2045 Bridge Type, Size & Location Plans (revision)

cc: K. Scheurich
J. McLaughlin - w/encl.
G. Rollman
L. Noll-May – w/encl.
J. Stump – w/encl.
J. Bintrim - HDR – w/encl.
Matt Parrish – Pennoni - w/encl.

**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Pennsylvania Turnpike Commission (PTC) for approval to replace an above grade public crossing by the installation of a single-span steel girder bridge where S.R. 2045 (Pittsburgh-McKeesport Blvd.) crosses Union Railroad Company's (URR's) Clairton Branch; PTC will fund the bridge replacement, but PennDOT will own and maintain the overhead bridge located in the Borough of Dravosburg, Allegheny County, Pennsylvania.

Application
Docket No. A-2022-3036865

CERTIFICATION OF SERVICE

I, Brian F. Mostek, P.E., Engineer Project Manager – Mon Fayette Expressway, hereby certify that on the date listed below a true and correct PDF copy of the within application update was served upon the following parties via e-mail from john.kennelly@hdrinc.com.

Mr. Philip Mutunga, P.E.
Pennsylvania Department of Transportation,
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45 Thoms Run Road
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pmutunga@pa.gov

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Mr. Shane Szalankiewicz, P.E.
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PENNDOT District 11
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Mr. Kevin McKelvey
Mayor
Borough of Dravosburg
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dravoadmin@comcast.net

Ms. Michele Acitelli, P.E.
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CRompala@PortAuthority.org

Mr. Daniel D. Leonard, P.E., Acting Chief
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Mr. Greg Bykowski, P.E.
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Mr. Ray Boronyak
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RBoronyak@uss.com

Mr. Mark Wilson
United States Steel Corporation
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602 Helena St.
West Mifflin, PA 15122
markwilson@uss.com

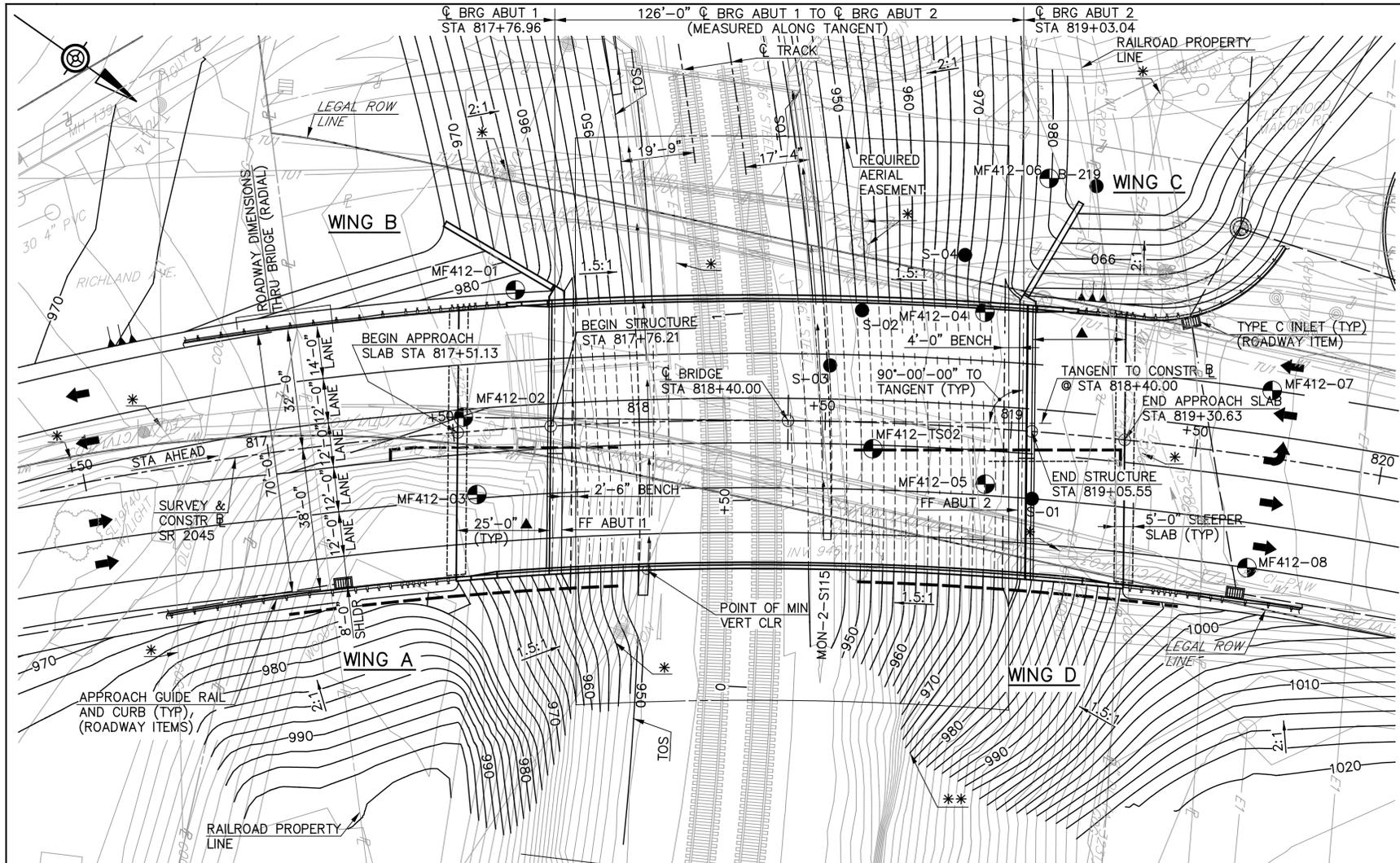
Dated this 3rd day of March, 2023



Brian F. Mostek, P.E.
Engineer Project Manager –
Mon Fayette Expressway

Exhibit C (update) – Proposed Bridge Type, Size and Location Plans (revised)

*Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B1A
MF-412 S.R. 2045 Pittsburgh-McKeesport Blvd. over URR*

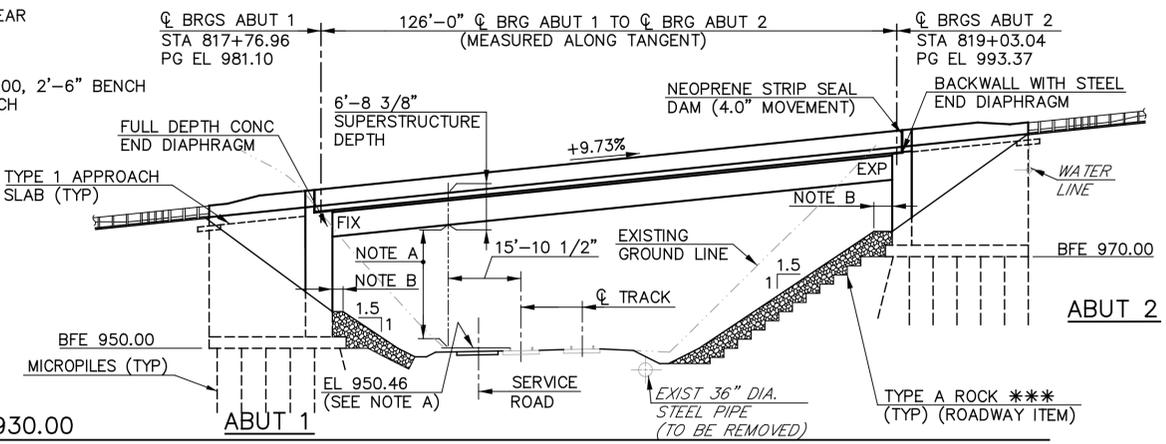


PLAN
20 0 20 FEET

NOTE A:
23'-0" REQUIRED VERTICAL CLEAR
24'-10 1/4" PROPOSED VERTICAL CLEAR
26'-2" EXISTING VERTICAL CLEAR

NOTE B:
ABUTMENT 1: EL. 956.40 TO EL. 959.00, 2'-6" BENCH
ABUTMENT 2: EL. 975.50, 4'-0" BENCH

ROCK NOTES:
TOR ELEVATION AT
ABUTMENT 1: 972.4 TO 978.5
ABUTMENT 2: 958.5 TO 973.4

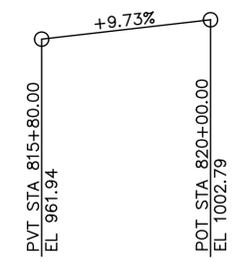


ELEVATION
20 0 20 FEET

HORIZONTAL CURVE DATA
SR 2045

PI STA 819+48.81
DELTA = 65°-10'-40" RT
D = 5'-53'-41"
T = 621.36'
L = 1105.72'
R = 972.00'
E = 181.63'
PC STA 813+27.46
PT STA 824+33.17
SE = 5.00%

PROFILE DATA
SR 2045



LEGEND

- FF - FRONT FACE
- PG - PROFILE GRADE
- BCPE - BOTTOM OF PILE CAP ELEVATION
- TORS - TOP OF ROCK SOCKET
- BORS - BOTTOM OF ROCK SOCKET
- TOS - TOE OF SLOPE
- TOR - TOP OF ROCK
- 1120- - PROPOSED CONTOUR
- 1120- - EXISTING CONTOUR
- FOU3- - EXISTING WATER LINE
- E1- - EXISTING ELECTRIC LINE
- T- - EXISTING TELEPHONE LINE
- COG- - EXISTING GAS LINE
- CTVU1- - EXISTING COMMUNICATION LINE
- - - - GENERAL LOCATION OF TEMPORARY SHORING ACTUAL LENGTH AND LOCATION MAY VARY BASED UPON CONTRACTOR DESIGN. STAGE 1 IS SHOWN. STAGE 2 TEMPORARY SHORING WILL BE MODIFIED AT THE NEW STRUCTURE INTERFACE.

BORING LOCATION TABLE

BORING NO.	STATION	OFFSET
B-219	819+17	67' LT
S-01	819+07	18' RT
S-02	818+59	30' LT
S-03	817+51	15' LT
S-04	817+85	46' LT
MF412-01	817+69	37' LT
MF412-02	817+53	4' LT
MF412-03	817+55	17' RT
MF412-04	818+91	31' LT
MF412-05	818+94	15' RT
MF412-06	819+05	68' LT
MF412-07	819+68	18' LT
MF412-08	819+68	30' RT
MF412-TS02	818+63	7' RT

OFFSETS MEASURED FROM SURVEY AND CONSTRUCTION SR 2045

- - DENOTES EXISTING BORING LOCATION
- MF412-00 - DENOTES AS-DRILLED BRIDGE BORING
- MF412-TS00 - DENOTES AS-DRILLED TEMPORARY SHORING BORING
- ⊙ - DENOTES AS-DRILLED BORING LOCATION

NOTES:

- FOR GENERAL NOTES, SEE DRAWING 2.
- FOR CONSTRUCTION STAGING AND TYPICAL SECTION, SEE DRAWINGS X.
- FOR BRIDGE LOAD RATINGS, SEE DRAWING X.
- SEE DESIGN FIELD VIEW PLANS FOR REQUIRED RIGHT-OF-WAY LINES FOR STATE ROAD AND REQUIRED AERIAL EASEMENTS.
- BEARING TYPE AT ALL SUBSTRUCTURE UNITS, LAMINATED NEOPRENE BEARING PADS WITH BEVELED STEEL SOLE PLATES.

- * EXISTING UTILITIES TO BE RELOCATED BY OTHERS (ROADWAY ITEM)
- ** FINAL GRADING TO MATCH ROCK OUTCROP (TYP)
- *** DRESS CUT SLOPE IN FRONT OF ABUTMENTS WITH TYPE A ROCK.
- ▲ TYPE 1 APPROACH SLAB (MEASURED ALONG TANGENT)

STRUCTURE DATA:

EXISTING STRUCTURE DATA
TYPE: THREE SPAN P/S CONCRETE ADJACENT BOX BEAM BRIDGE
SPAN LENGTH: 1 @ 36.0', 1 @ 47.8', 1 @ 37.8'
VERTICAL CLEARANCE: 26.17'
SKEW: 72.5'
RADIUS: 400.00'

PROPOSED STRUCTURE DATA
TYPE: SINGLE SPAN COMP STEEL PLATE MULTI-GIRDER BRIDGE
SPAN LENGTH: 1 @ 126.00'
VERTICAL CLEARANCE: 24.85'
SKEW: 90°
RADIUS: 972.00'

DESIGN TRAFFIC DATA:

SR 2045 (PITTSBURGH-MCKEESPORT BLVD.)
URBAN PRINCIPAL ARTERIAL
CURRENT ADT - 21,100 (2025)
DESIGN YEAR ADT - 27,500 (2045)
PERCENT TRUCKS - 5.8% NB, 8.4% SB

DESCRIPTION	DWG. NO.	APP. DATE
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	2-19-21
BACKFILL AT STRUCTURES	RC-12M	2-08-19
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-01-10
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	1-31-19
RANDOM STONE SLOPE WALL	BC-781M	9-30-16
BEARINGS	BC-755M	1-31-19
STEEL DIAPHRAGMS FOR STEEL BEAM/GIRDER STRUCTURES	BC-754M	1-31-19
STEEL GIRDER DETAILS	BC-753M	1-31-19
CONCRETE DECK SLAB DETAILS	BC-752M	2-19-21
BRIDGE DRAINAGE	BC-751M	1-31-19
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	1-31-19
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	9-30-16
ANCHOR SYSTEMS	BC-734M	2-19-21
PERMANENT METAL DECK FORMS	BC-732M	1-31-19
TEMPORARY CONCRETE BARRIER, STRUCTURE MOUNTED	BC-719M	1-31-19

SUPPLEMENTAL DRAWINGS

DES: DFG | DWG: ALB | CKD: DFG

BMS. NO. 02 2045 0030 0841 | BRKEY NO. 1559

PREPARED BY:
PENNONI
FOSTER PLAZA 9
750 HOLIDAY DRIVE, SUITE 700
PITTSBURGH, PA 15220
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



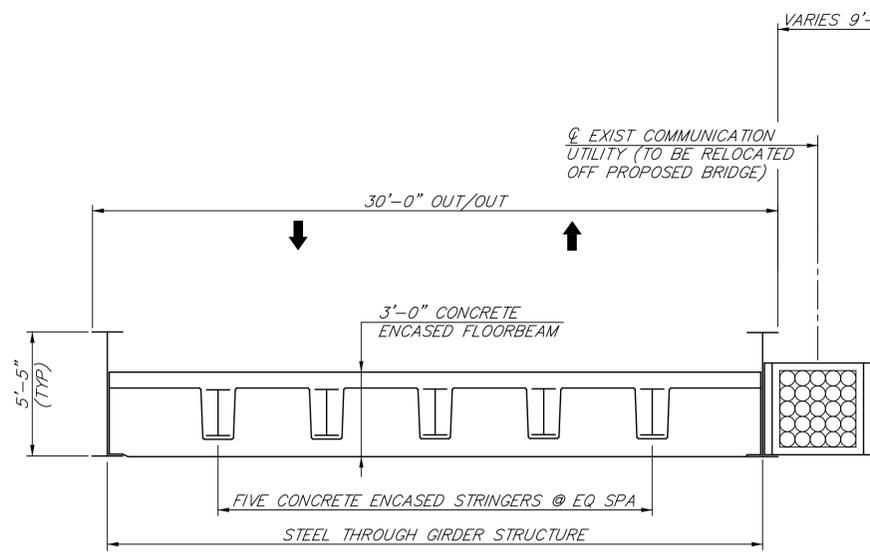
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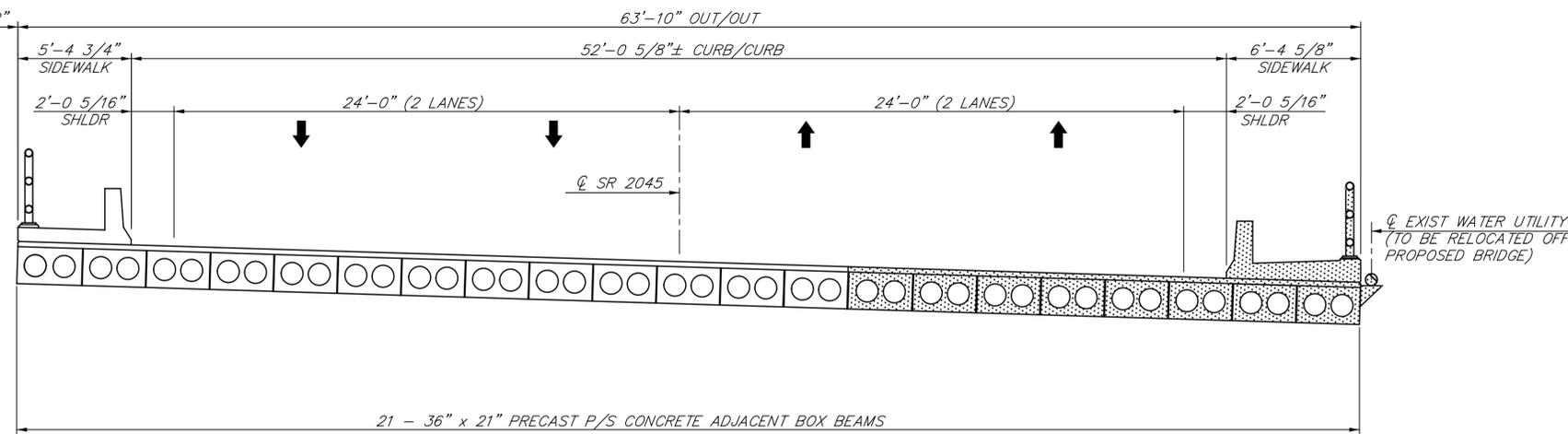
ROADWAY AND BRIDGE CONSTRUCTION SECTION 53B

**S.R. 2045 (PITTSBURGH-MCKEESPORT BLVD.)
OVER UNION RAILROAD STA. 818+40.00
SINGLE SPAN COMPOSITE STEEL
PLATE MULTI-GIRDER BRIDGE
GENERAL PLAN AND ELEVATION**

DISTRICT: 1 | COUNTY: ALLEGHENY | DRAWING: 1 OF 23
TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH | SHEET: XX OF XX



TYPICAL SECTION - ADJACENT STRUCTURE



TYPICAL SECTION - SR 2045 STRUCTURE

TYPICAL SECTION - EXISTING STRUCTURES

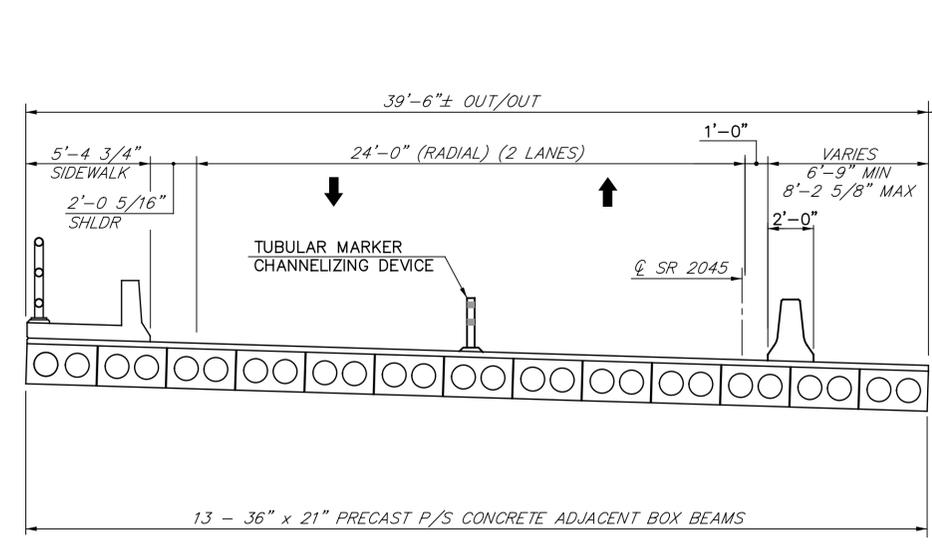


LEGEND

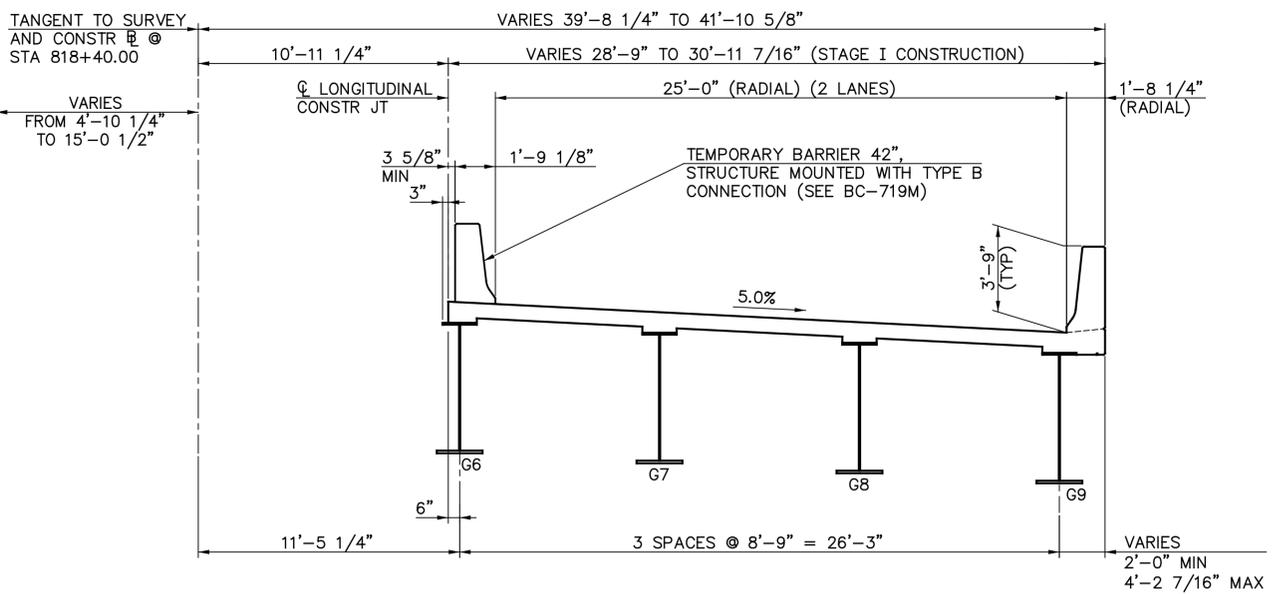
- DENOTES REMOVAL OF EXISTING STRUCTURE - STAGE I
- TEMPORARY MEDIAN BARRIER 32", STRUCTURE MOUNTED (SEE BC-719M)

NOTES:

- REFER TO THE TRAFFIC CONTROL PLAN FOR OVERALL SEQUENCE OF CONSTRUCTION.
- FOR TEMPORARY MEDIAN BARRIER 32", STRUCTURE MOUNTED DETAILS, SEE PENNDOT STANDARD DRAWING BC-719M.



STAGE I CONSTRUCTION



PENNONI ASSOCIATES, INC.
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 DATE PLOTTED: 2/9/2023 @ 10:36:45 AM
 USER NAME: aburdaugh

DES: DFG DWG: ASA CKD: DFG

PREPARED BY:
 PENNONI
 FOSTER PLAZA 9
 750 HOLIDAY DRIVE, SUITE 700
 PITTSBURGH, PA 15220
 PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



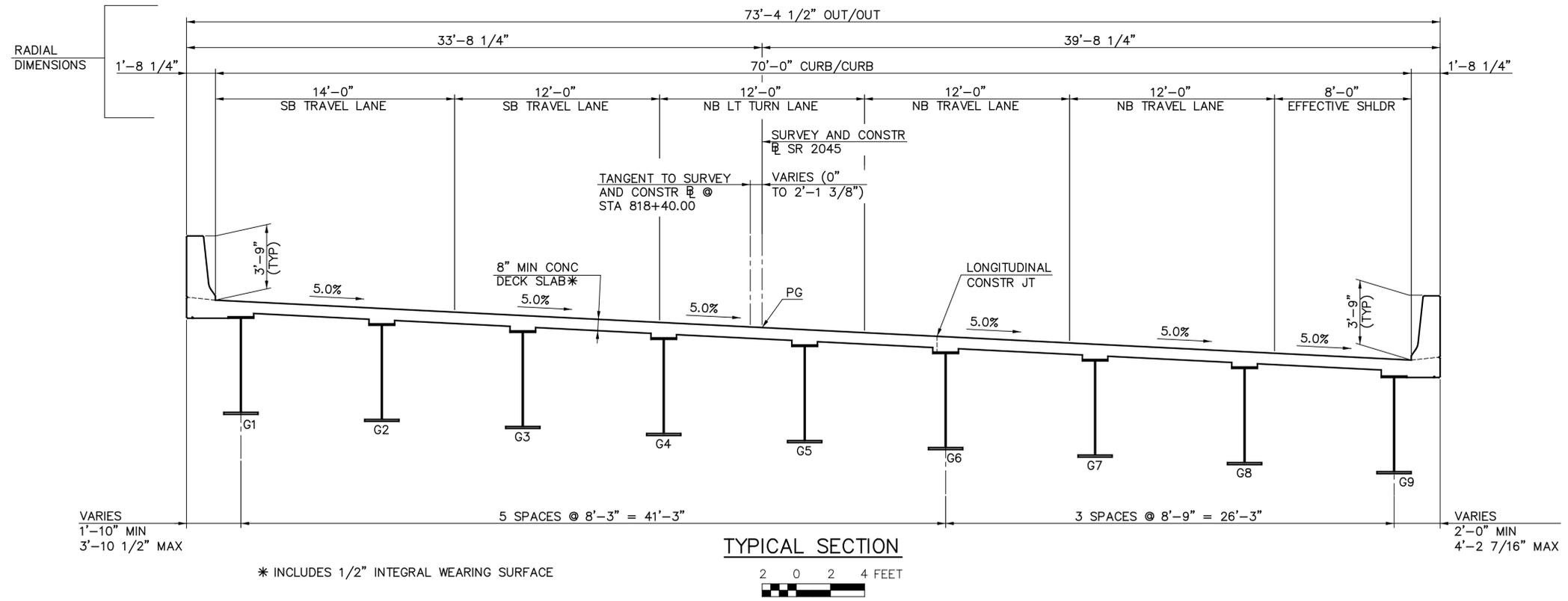
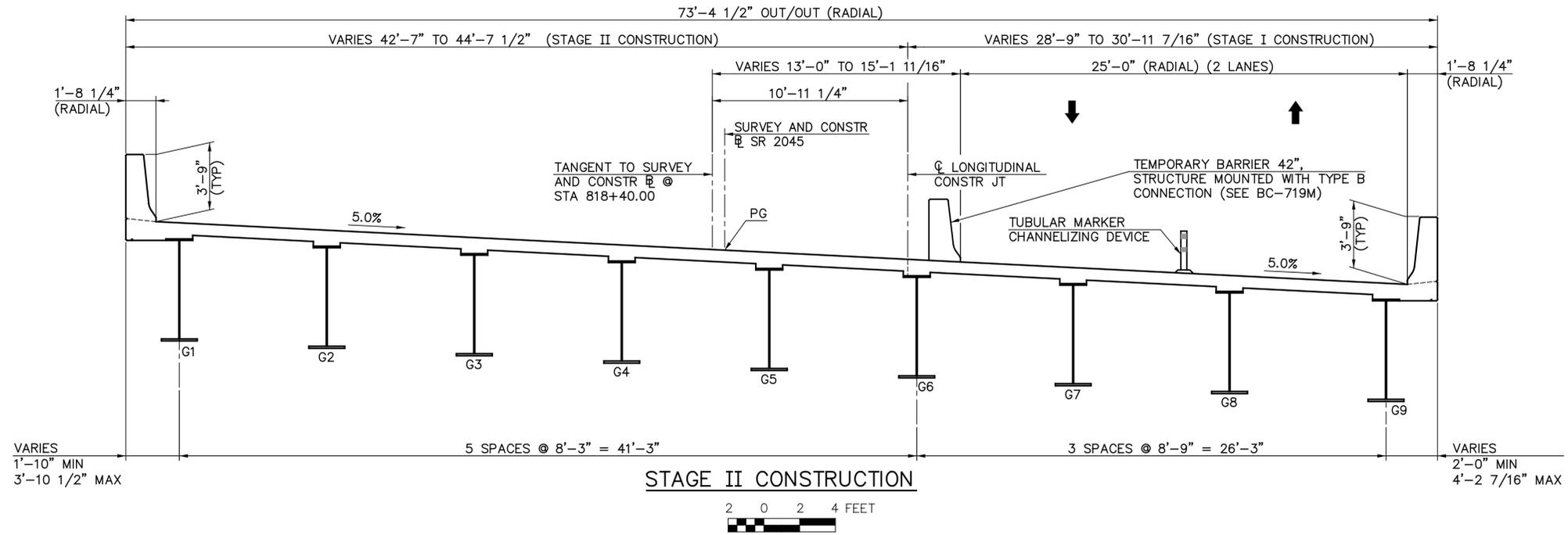
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 SCALE: AS NOTED

ROADWAY AND BRIDGE CONSTRUCTION
 SECTION 53B
 DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
 OVER UNION RAILROAD STA. 818+30.00
 SINGLE SPAN COMPOSITE STEEL PLATE
 MULTI-GIRDER BRIDGE
 CONSTRUCTION STAGING - SHEET 1 OF 2
 DRAWING: 4 OF 23
 SHEET: XX OF XX



PENNONI ASSOCIATES, INC.
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DES: DFG DWG: EF CKD: ALB

PREPARED BY:
 PENNONI
 FOSTER PLAZA 9
 750 HOLIDAY DRIVE, SUITE 700
 PITTSBURGH, PA 15220
 PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



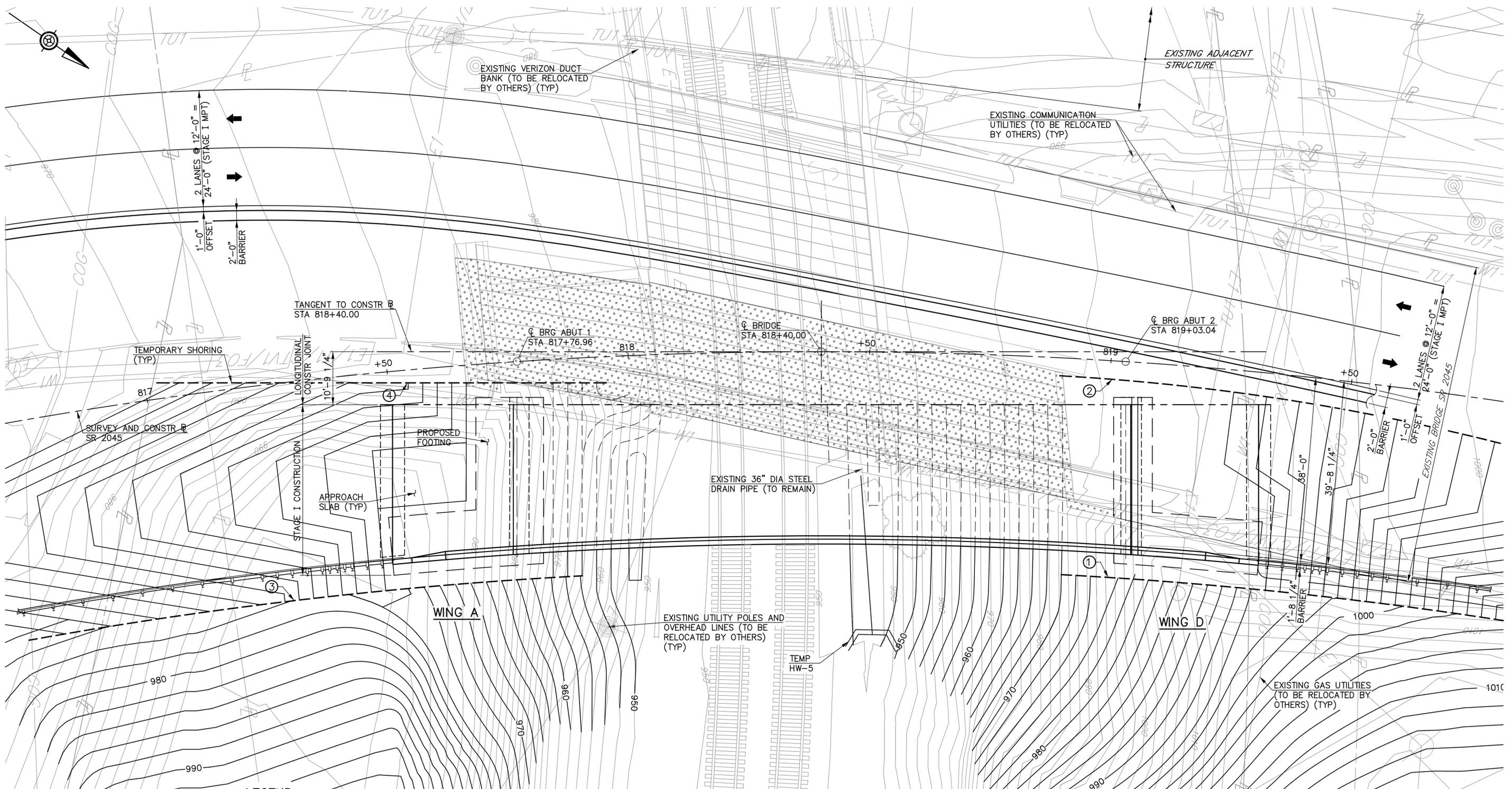
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 SCALE: AS NOTED

ROADWAY AND BRIDGE CONSTRUCTION
SECTION 53B
 DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
OVER UNION RAILROAD STA. 818+30.00
SINGLE SPAN COMPOSITE STEEL PLATE
MULTI-GIRDER BRIDGE
CONSTRUCTION STAGING - SHEET 2 OF 2
 DRAWING: 5 OF 23
 SHEET: XX OF XX



PLAN - STAGE I

- LEGEND**
- DENOTES MINIMUM PORTION OF EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED DURING STAGE I CONSTRUCTION.
 - GENERAL LOCATION OF TEMPORARY SHORING DURING STAGE I CONSTRUCTION. ACTUAL LENGTH AND LOCATION MAY VARY BASED UPON CONTRACTOR DESIGN.
 - TEMPORARY SHORING LINE #.

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR MPT CONSTRUCTION STAGE II PLAN, SEE SHEET X.

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DES: XXX DWG: ALB CKD: XXX

PREPARED BY:
 PENNONI
 FOSTER PLAZA 9
 750 HOLIDAY DRIVE, SUITE 700
 PITTSBURGH, PA 15220
 PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.
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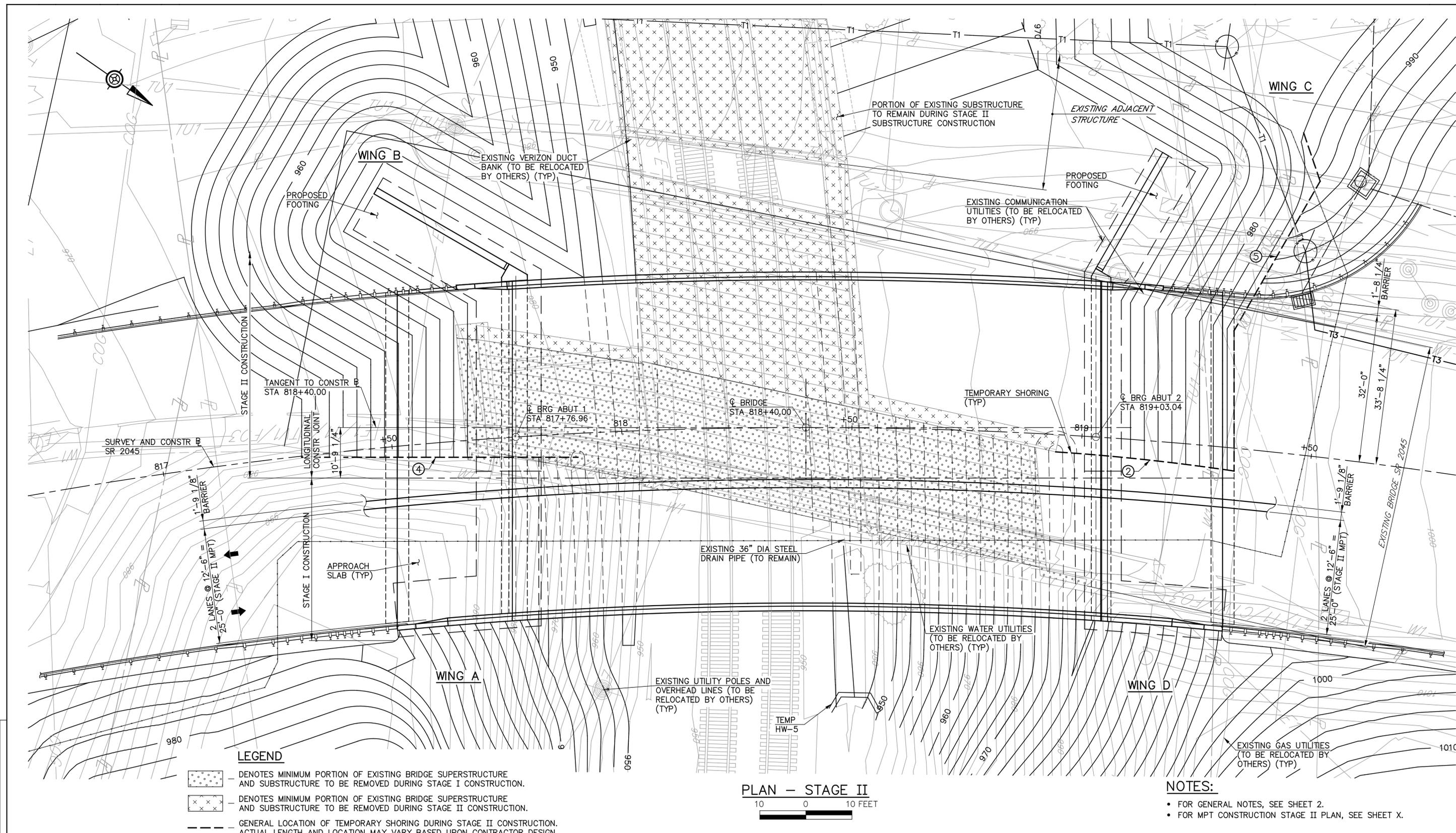
ROADWAY AND BRIDGE CONSTRUCTION SECTION 53B

DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

**S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
 OVER UNION RAILROAD STA. 818+30.00
 SINGLE SPAN COMPOSITE STEEL
 PLATE MULTI-GIRDER BRIDGE
 MPT CONSTRUCTION STAGE I PLAN**

DRAWING: XX OF 23
 SHEET: XX OF XX



LEGEND

- DENOTES MINIMUM PORTION OF EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED DURING STAGE I CONSTRUCTION.
- DENOTES MINIMUM PORTION OF EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED DURING STAGE II CONSTRUCTION.
- GENERAL LOCATION OF TEMPORARY SHORING DURING STAGE II CONSTRUCTION. ACTUAL LENGTH AND LOCATION MAY VARY BASED UPON CONTRACTOR DESIGN.
- TEMPORARY SHORING LINE #. MODIFY STAGE I SHORING FOR USE IN STAGE II AS NEEDED.

PLAN - STAGE II



NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR MPT CONSTRUCTION STAGE II PLAN, SEE SHEET X.

PENNONI ASSOCIATES, INC.
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 USER NAME: aburdaugh

DES: DFG DWG: ALB CKD: XXX

PREPARED BY:
 PENNONI
 FOSTER PLAZA 9
 750 HOLIDAY DRIVE, SUITE 700
 PITTSBURGH, PA 15220
 PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

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 DRAWING TYPE: 2G
 STRUCTURE NUMBER: S-40589 (MF-412)
 SCALE: AS NOTED

**ROADWAY AND BRIDGE CONSTRUCTION
 SECTION 53B**

DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

**S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
 OVER UNION RAILROAD STA. 818+30.00
 SINGLE SPAN COMPOSITE STEEL
 PLATE MULTI-GIRDER BRIDGE
 MPT CONSTRUCTION STAGE II PLAN**

DRAWING: XX OF 23
 SHEET: XX OF XX