



pennsylvania
DEPARTMENT OF TRANSPORTATION
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February 12, 2018

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

PA PUBLIC UTILITY COMMISSION
BUREAU OF
FEB 14 2018
TECHNICAL UTILITY SERVICES
RAIL SECTION

Re: Application of the Department of Transportation of the Commonwealth of Pennsylvania for the approval to replace the existing bridge where State Route 0183, Section 05B (Schuylkill Avenue) crosses over two tracks of the Norfolk Southern Railroad (DOT No. 592 216 N) in the City of Reading, Berks County and the allocation of costs incident thereto.

Dear Secretary Chiavetta:

Enclosed for filing please find the Application of the Department of Transportation.

A copy of this Application and Exhibits has been served upon the parties in the Certificate of Service to the Application.

Sincerely,

Rodney O. Rehnert
District Grade Crossing Administrator
Engineering District 5-0
Department of Transportation

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Attachments

cc: Parties of Record
Mark J. Chappell, P.E., Right-of-Way and Utilities Section, 7th Floor, CKB
Gina M. D'Alfonso, Senior Counsel-in-Charge, Office of Chief Counsel, 9th Floor, CKB
Ron Hull, P.E., Rail Safety Engineering Section PUC, 3rd Floor, CKB

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for the approval to replace the existing bridge where State Route 0183, Section 05B (Schuylkill Avenue) crosses over two tracks of the Norfolk Southern Railroad (DOT No. 592 216 N) in the City of Reading, Berks County and the allocation of costs incident thereto.

Application
Docket No. _____

Electronically Filed

To the Pennsylvania Public Utility Commission:

1. The name and address of Applicant are the Pennsylvania Department of Transportation, Christopher Kufro, P.E., Assistant District Executive, Engineering District 5-0, 1002 Hamilton Street, Allentown, PA 18101.
2. The name and address of attorney for the Applicant are Jason D. Sharp, Acting Chief Counsel, Commonwealth of Pennsylvania, Department of Transportation, Office of Chief Counsel, P.O. Box 8212, Harrisburg, PA 17105-8212.
3. The Applicant is an agency of Commonwealth of Pennsylvania, organized and existing under the Administrative Code of 1929, 71 P.S. § 511 et seq. and generally 36 P.S. § 670 - 401 et seq.
4. The names and addresses of the persons, parties and entities concerned in, or affected by the proposed construction, to the best of the Applicant's knowledge, are shown in the certificate of service. In addition to those served, the Applicant requests that the following also receive service of all documents in this matter:

Mark J. Chappell, P.E., Chief
Utilities and Right of Way Section
Pennsylvania Department of Transportation
P.O. Box 3362
Harrisburg, PA 17105-3362

Gina M. D'Alfonso, Senior Counsel-in-
Charge
Office of Chief Counsel
Pennsylvania Department of Transportation
P.O. Box 3265
Harrisburg, PA 17105-3265

5. It is desirable to replace the existing three-span bridge which carries State Route 0183, Section 05B, over the railroad with a new one-span bridge that meets current clearance requirements. The existing bridge width between curbs will be widened from 28 feet to 30 feet. The new deck slab will accommodate two traffic lanes and sidewalks on the new pre-stressed concrete spread box beams. A pedestrian fence will be installed on the exterior of the sidewalks. A Location Map, Exhibit "A" and preliminary Type, Size, and Location plans, Exhibit "B" are attached hereto and made a part hereof.

6. The average daily traffic for State Route 0183 is 6091 vehicles with 3% trucks.

7. The estimated total cost for the bridge replacement project is \$8.2 million. The funding for the project will be 80% Federal Funds and 20% State Funds.

8. This project is necessary and proper for the safety and convenience of the public.

9. A conference of all parties of interest should be held to discuss the proposed improvement.

Wherefore, Applicant respectfully requests that the Public Utility Commission approve this application:

Respectfully Submitted:



Christopher J. Kufro, P.E.
Assistant District Executive
Engineering District 5-0
Department of Transportation
1002 Hamilton Street
Allentown, PA 18101
Phone (610) 871-4533
Fax (610) 871-4122

Dated: 2-12-18

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VERIFICATION

I, Rodney O. Rehnert, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §4904 (relating to unsworn falsification to authorities).

Date: 2/12/2018



Rodney O. Rehnert
Grade Crossing Administrator

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CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below, in accordance with the requirements of 52 Pa. Code §1.54, by first class mail, postage prepaid:

Douglas Starling
Senior Engineer Public Improvements
Norfolk Southern Corporation
1200 Peachtree Street
Atlanta, GA 3009

Jason M. Morris, Esquire
Norfolk Southern Corporation
3 Commercial Place
Norfolk, VA 23510-9241

Christian Y. Leinbach, Chairman
Berks County Commissioners
633 Court Street, 13th Floor
Reading, PA 19601

Wally Scott, Mayor
City Hall
815 Washington Street
Reading, PA. 19601

Kurt Zielaskowski
UGI Utilities
225 Morgantown Road
Reading, PA 19611

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Lou Marelo
AT&T Atlanta
50 Patricia Drive
Flanders NJ, 07836

Thomas Weld, Jr.
Reading Water Authority
920 Germantown Pike
Suite 200
Plymouth Meeting, PA 19462

Dan Henry
Metropolitan Edison Co./First Energy
800 Cabin Hill Drive
Greenburg, PA 15601

Wayne Williams
Service Electric Cablevision Inc.
6400 Perkiomen Avenue
Birdsboro, PA 19508

Jeffrey Kramer
Verizon Pennsylvania Inc.
409 Washington Street
Reading, PA 19601

Deborah Hoag
City of Reading
815 Washington Street
Reading, PA 19601

Glen Esenwein
Windstream Communications
2020 East First Street
Birdsboro, PA 19508

Jeff Roeckle
Comcast Cable Communications, Inc.
400 Riverfront Drive
P.O. Box 107
Reading, PA 19603

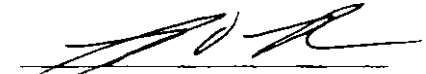
Graig Pletz
Frontier Communications
37 Diller Avenue
New Holland, PA 17557

Leo Snyder
Zayo Group
7010 Snowdrift Road
Allentown, PA 18106

Frank Wiczowski
MAW Communications
P.O. Box 978
Reading, PA 19603

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Dated this 12TH Day of FEBRUARY 2018


Name

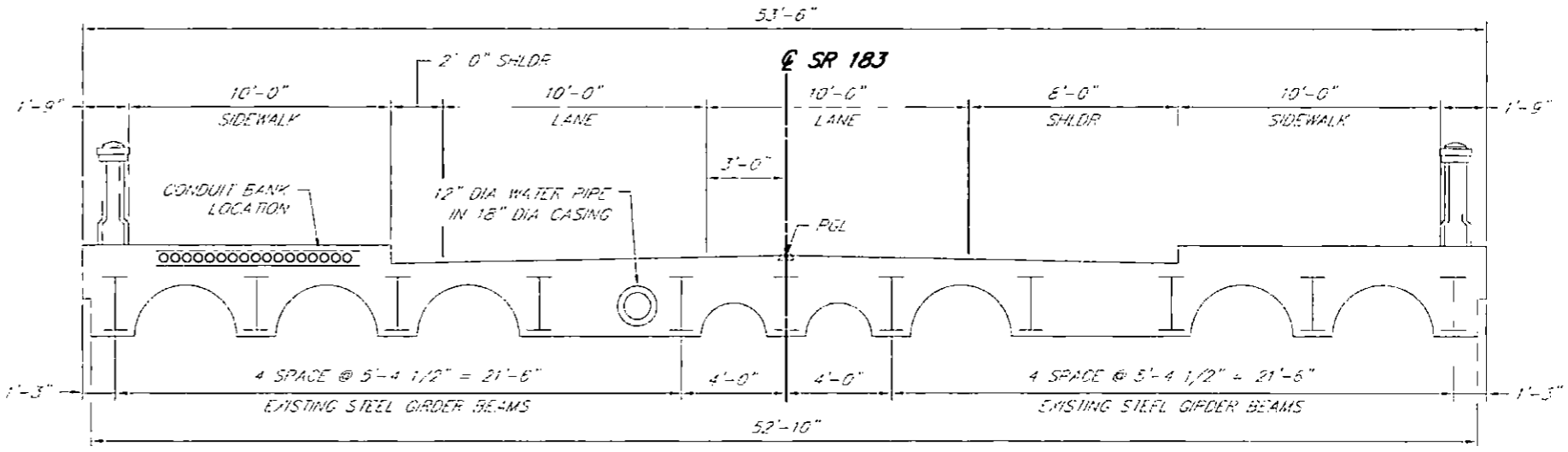
BRIDGE LOAD RATINGS WITH FUTURE WEARING SURFACE
ADTT (2038): 206

		48" x 21" P/S SPREAD BOX BEAMS					
		H20	HS20	ML-80	TK-527	PHL-93	P-82
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	0.708	0.708	0.563	0.563	0.708	-
	LOCATION (FT)	5.15	5.15	25.75	25.75	5.15	-
	LIMIT STATE	STR-IP	STR-IP	SERV-IIIIP	SERV-IIIIP	STR-IP	-
	RATING FACTOR	1.76 V	1.24 V	1.03 M	1.10 M	1.00 V	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	0.708	0.708	0.708	0.708	0.708	0.708
	LOCATION (FT)	5.15	7.72	7.72	5.15	7.72	5.15
	LIMIT STATE	STR-II	STR-II	STR-II	STR-II	STR-IA	STR-II
	RATING FACTOR	2.34 V	1.65 V	1.46 V	1.47 V	1.33 V	1.00 V

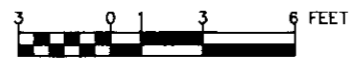
CRITICAL MEMBER : INTERIOR BEAM
 MAXIMUM FACTORED FLEXURAL RESISTANCE: 2768 (K-ft)
 LOCATION : 15.45 FT
 MAXIMUM FACTORED SHEAR RESISTANCE (KIPS): 180 k
 LOCATION : 2.58 FT

NOTES:

- "M", "V", AND "SM" DENOTE THAT MOMENT, SHEAR, AND SHEAR/MOMENT INTERACTION CONTROL THE RATING FACTOR, RESPECTIVELY.
- GIVEN DISTRIBUTION FACTOR IS THE VEHICULAR LOAD DISTRIBUTION FACTOR USED TO PRODUCE THE GIVEN RATING.
- LRFD METHOD USED FOR RATINGS.



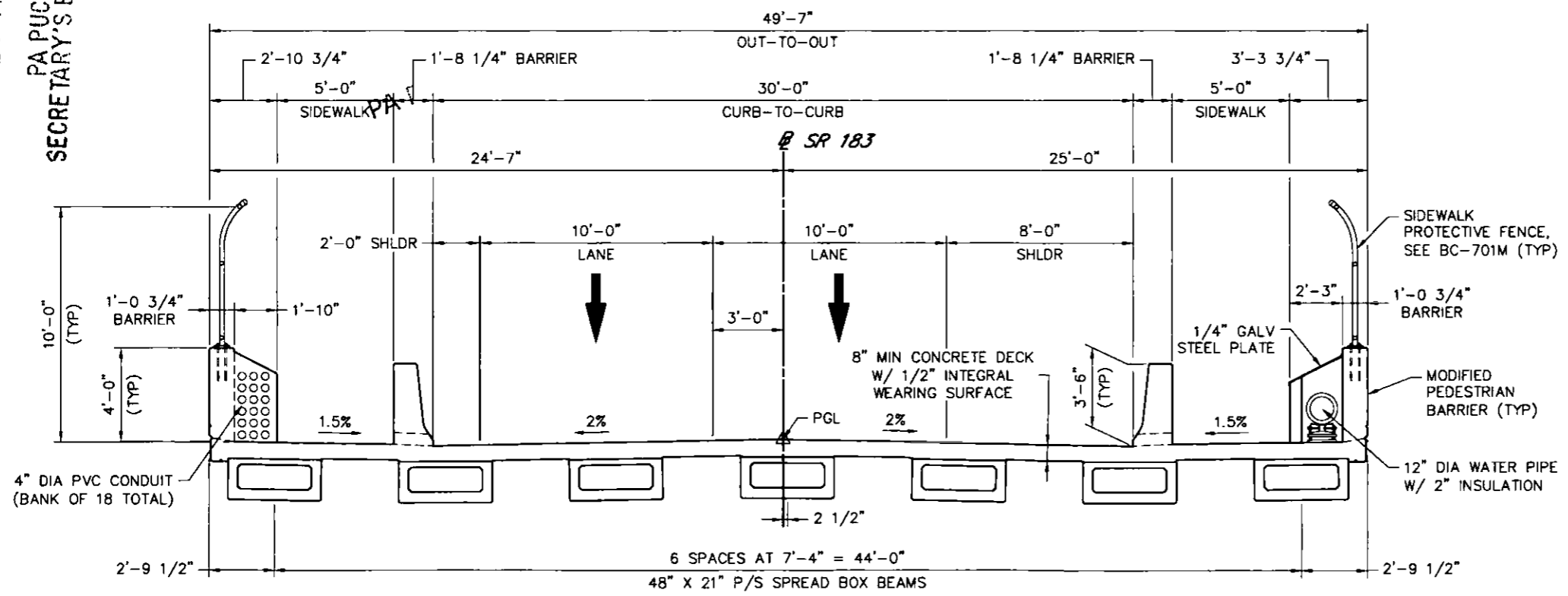
EXISTING TYPICAL SECTION



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PROPOSED BRIDGE SECTION



UBLIC UTILITY COMMISSION
 BUREAU OF
 FEB 14 2018
 TECHNICAL UTILITY SERVICES
 RAIL SECTION

SR 0183 PREVIOUSLY KNOWN AS LR 310

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 183 STA. 5+37.91
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC SPREAD BOX BEAM BRIDGE
 TYPE, SIZE & LOCATION - TYPICAL SECTIONS

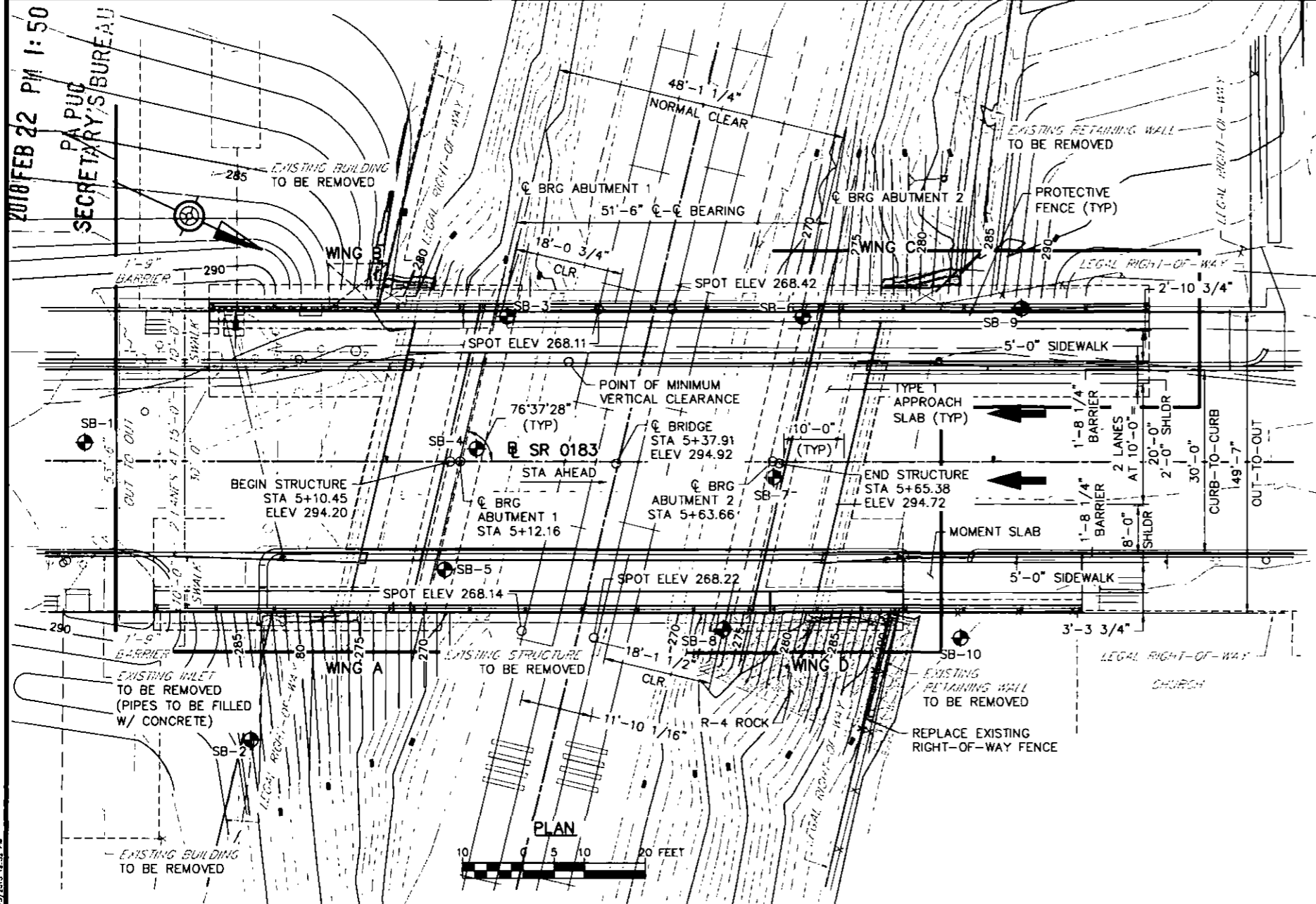
McTISH, KUNKEL & ASSOCIATES
 3500 winchester road
 suite 300
 allentown, pa 18104
 phone: 610-841-2700
 fax: 610-841-2709

EXHIBIT "B" PAGE 2 of 3

SHEET 2 OF 3

DES: KAD	CHK'D: BDB
DWG: LAH	CHK'D: BDB

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DESIGN SPECIFICATIONS

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (2010) AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, MAY 2012.
2. LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM4 DISTRIBUTION FACTOR METHOD.
3. DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS

1. PHL-93 OR P-82 (204 kip PERMIT LOAD)
2. FATIGUE DESIGN IS BASED ON THE FOLLOWING:
ADTT 250(2036) (ONE-DIRECTIONAL)

DEAD LOADS

1. INCLUDES SURFACE AREA DENSITY OF 0.030 ksf FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
2. INCLUDES A SURFACE AREA DENSITY OF 0.015 ksf FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.

DESIGN DESIGNATION
SR 0183

HORIZONTAL CURVE DATA
SR 0183

VERTICAL CURVE DATA
SR 0183

CLASSIFICATION = URBAN ARTERIAL
 DESIGN SPEED = 25 MPH
 ADT (2015) = 5981
 ADT (2038) = 6879
 PERCENT TRUCKS = 3%

ON TANGENT

PVI STA = 05+31.25
 PVI ELEV = 295.68
 VC = 75.00'
 MO = 0.85
 SSD = 156.34'

- EXISTING STRUCTURE DATA**
- 3-SPAN ENCASED STEEL GIRDER BRIDGE
 - SPANS: 24'-6", 29'-0", 24'-6"
 - ROADWAY: 30'-0" CURB-TO-CURB
 - S&E: 75°30'00"
 - BR KEY: 4741

PA PUBLIC UTILITY COMMISSION
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 RAIL SECTION

LEGEND:

- BORING LOCATION
- 280- EXISTING 5' CONTOURS
- 280- PROPOSED 10' CONTOURS
- * MEASURED NORMAL TO RAILROAD TRACKS
- BFE BOTTOM OF FOOTING ELEVATION
- TBD TO BE DETERMINED
- ▲ TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- ▲ MINIMUM 1.5:1 SLOPE AT WING D, 2:1 SLOPE AT WINGS A, B, & C
- 23'-4" MINIMUM PROPOSED VERTICAL CLEARANCE, 18'-9" MINIMUM EXISTING VERTICAL CLEARANCE

CORE BORING LOCATIONS

BORING NO	STATION	OFFSET
SB-1	4+50	3.0' LT
SB-2	4+77	46.0' RT
SB-3	5+20	24.0' LT
SB-4	5+15	2.0' LT
SB-5	5+10	18.0' RT
SB-6	5+69	24.0' LT
SB-7	5+64	3.0' RT
SB-8	5+57	28.0' RT
SB-9	6+05	25.0' LT
SB-10	5+95	29.0' RT

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 SINGLE SPAN COMP P/S CONC SPREAD BOX BEAM BRIDGE
 TYPE, SIZE & LOCATION - GENERAL PLAN

SHEET 1 OF 3

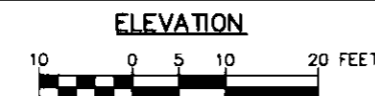
McTISH, KUNKEL & ASSOCIATES

3500 winchester road
 suite 300
 allentown, pa 18104
 phone: 610-841-2700
 fax: 610-841-2709



EXHIBIT "B" PAGE 1 of 3

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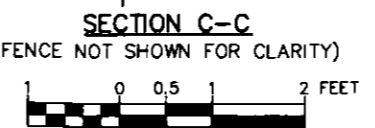
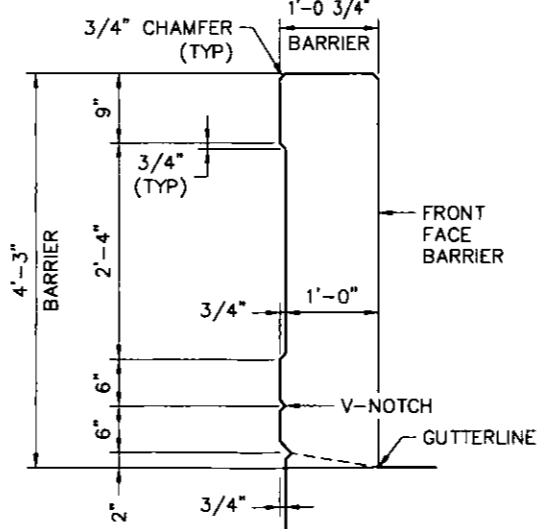
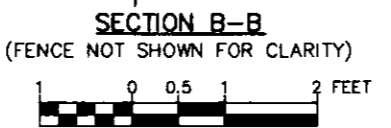
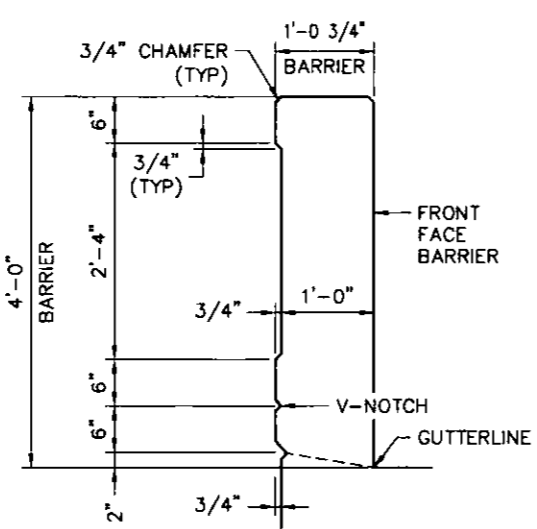
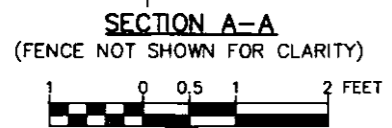
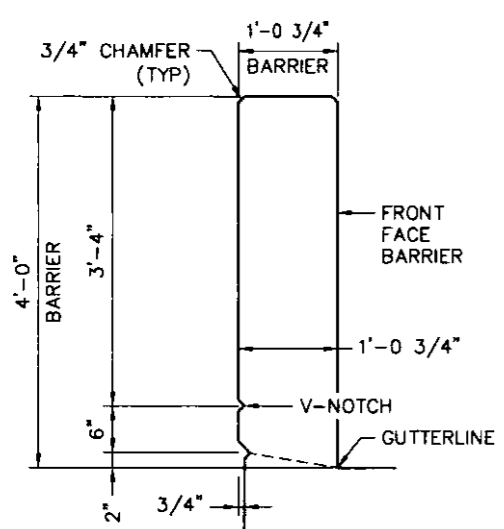
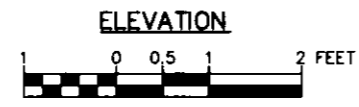
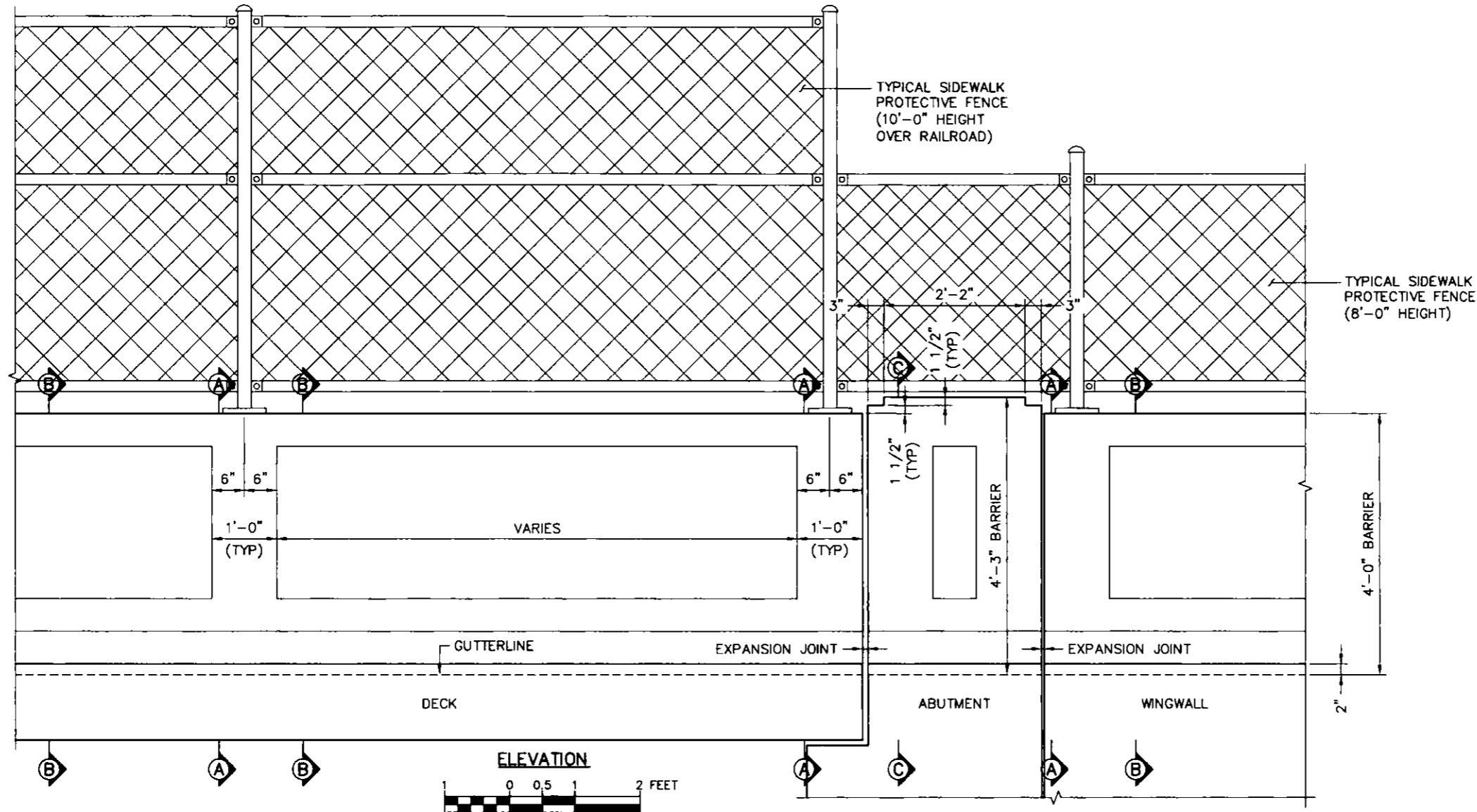


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TYPE, SIZE & LOCATION - BARRIER DETAILS

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EXHIBIT "B" PAGE 3 of 3

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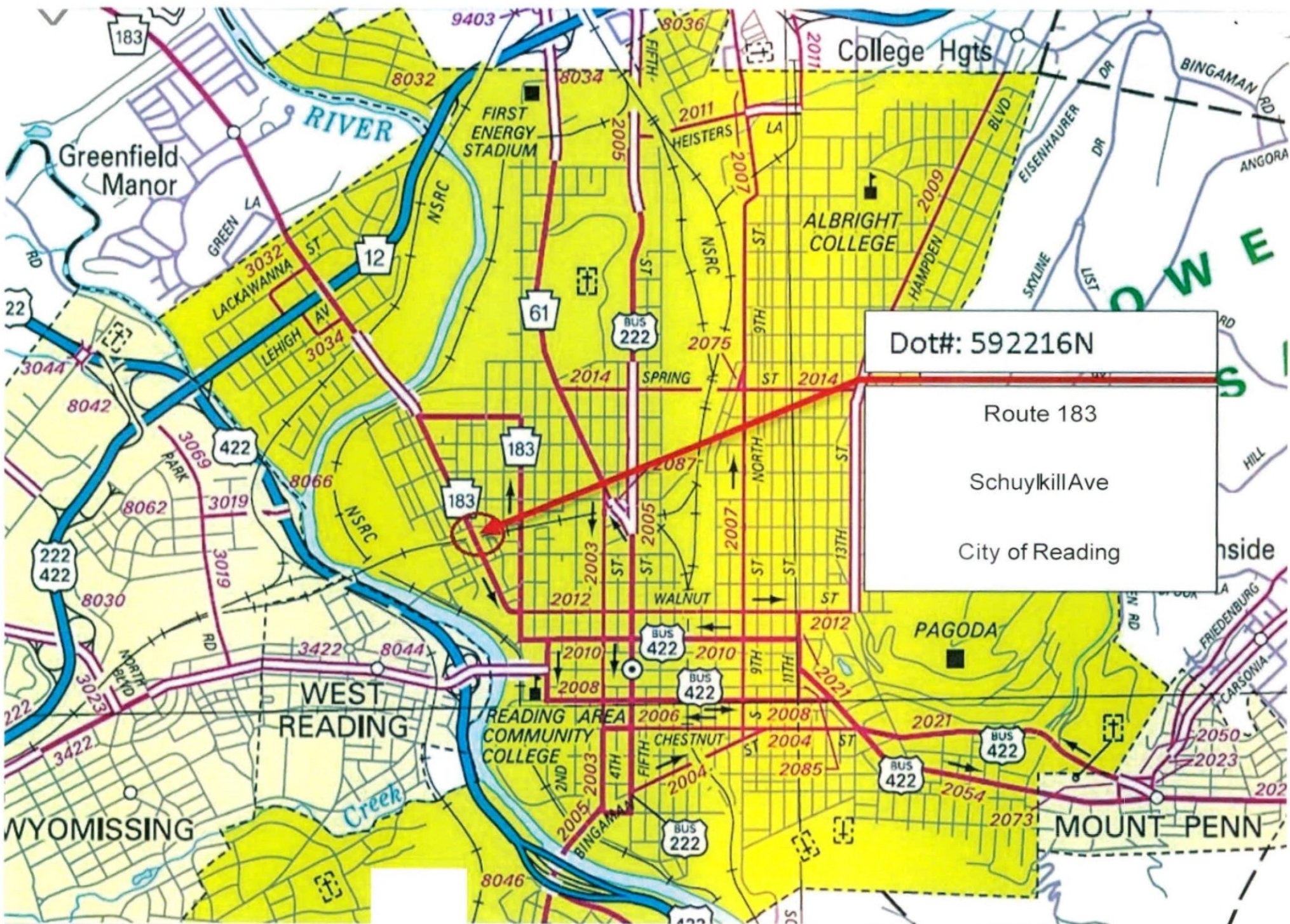


EXHIBIT A