



**NAUMAN
SMITH
SHISLER & HALL**

Benjamin C. Dunlap, Jr, Esquire

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717-236-3010. Ext. 121

March 12, 2021

VIA ELECTRONIC FILING

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

RE: Bridge structure where State Route 1025 crosses over a single track of Delaware and Hudson Railway Company, Inc. (264 293 K) in Nicholson Borough, Wyoming County / Docket No.: M-2013-2364201

**Investigation upon the Commission's own motion to determine the condition and disposition of six (6) existing structures carrying various highways above the grade of the tracks of the Canadian Pacific Railroad in Great Bend Township, New Milford Township, Brooklyn Township, Hop Bottom Borough, Lathrop Township, Susquehanna County and Benton Township, Lackawanna County
Docket No.: I-2015-2472242**

Dear Secretary Chiavetta:

Enclosed for the Commission's review and approval are Revised Bridge Repair Plans of Norfolk Southern Railway Company ("Norfolk Southern") for the crossings in the above-referenced matters. These plans are being sent to all parties on the attached service list for their review.

Sincerely yours,

Benjamin C. Dunlap, Jr.

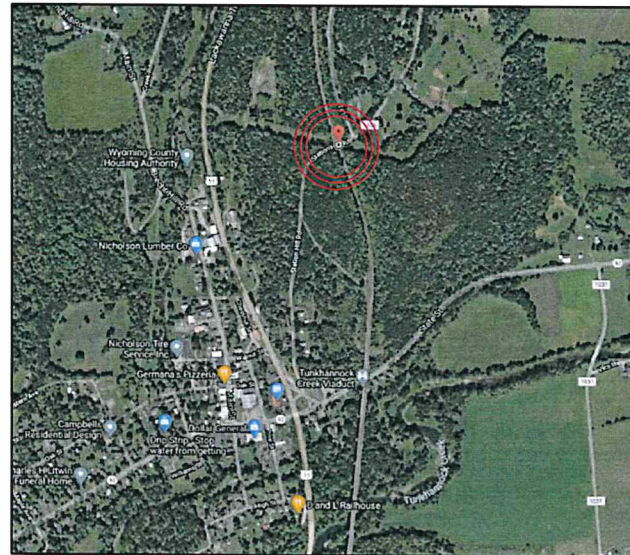
BCDjr/io
enclosures
cc w/ enc.:

All Parties of Record

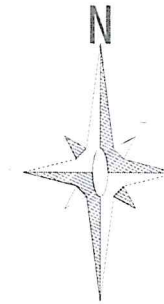


NICHOLSON, PENNSYLVANIA OVERPASS SR-1025 REPAIR

PROJECT SITE
GPS COORDINATES:
41.631959N, 75.777149W



VICINITY MAP



		NORFOLK SOUTHERN RAILWAY	
		NORTHERN REGION	HARRISBURG DIV.
OVERPASS SR-1025 HA LINE, NICHOLSON, PA BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA.	
DRAWING TITLE: COVER SHEET			
DN	DC	VAL SEC	MAP
MILE POST		HA-652.69	
CHK	WKM	FILE	DATE
SHEET NUMBER		DRAWING NUMBER	
1 OF 16		HA-652.69	



DC	02-08-21	REVISION 2	
CGB	12-31-19	PENNDOT REVISIONS	
REV	BY	DATE	DESCRIPTION
RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142			

GENERAL NOTES

- CONSTRUCTION AND MATERIAL SPECIFICATIONS: CURRENT EDITION AMERICAN RAILWAY ENGINEERING & MAINTENANCE-OF-WAY "MANUAL FOR RAILWAY ENGINEERING", PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR BRIDGE CONSTRUCTION CURRENT EDITION EXCEPT AS SUPERCEDED BY THESE PLANS, THE CONTRACT AND NORFOLK SOUTHERN SPECIFICATIONS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AS ORDERED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER AND PAYMENT SHALL BE MADE AT THE UNIT BID PRICE FOR THE APPROPRIATE ITEMS, SEE SPECIFICATIONS WITHIN CONTRACT PROPOSAL.
- THE CONSTRUCTION OF THE PROJECT SHALL PROCEED IN A CONTINUOUS, SYSTEMATIC AND EXPEDITIOUS MANNER FROM BEGINNING TO COMPLETION. THE CONTRACTOR WILL BE REQUIRED TO PLACE SUFFICIENT EQUIPMENT, LABOR, ETC. ON THE PROJECT SO THAT THE WORK MAY PROGRESS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SCHEDULE.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE HIMSELF WITH THE PRESENT CONDITION AND TO JUDGE FOR HIMSELF, THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED HIM BECAUSE OF HIS FAILURE TO INCLUDE IN THE CONTRACTOR'S BID, ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT PLANS.
- DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS AS ARE NECESSARY TO ASSURE PROPER CONSTRUCTION OF THE FINISH WORK.
- THERE SHALL BE NO CLAIM MADE BY THE CONTRACTOR AGAINST THE RAILROAD FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS IN THE CONTRACT PLANS OR THE RECORD DRAWINGS.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES" WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HERE.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING STRUCTURE, TRACK, UTILITIES OR ADJACENT PROPERTIES OR FACILITIES, CAUSED BY HIS OPERATIONS, WHICH ARE NOT INCLUDED AS PART OF THE INTENDED WORK. ANY DAMAGE TO THE EXISTING STRUCTURE OR ADJACENT PROPERTIES, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHOUT COST TO THE RAILROAD AND TO THE SATISFACTION OF THE ENGINEER.
- IF, DURING THE REPAIR OPERATIONS, ANY COMPONENTS OF THE BRIDGE THAT ARE NOT SCHEDULED TO BE REMOVED, SUCH AS ABUTMENT STEMS, WINGWALLS, GIRDERS OR BEARINGS ARE DAMAGED BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE RAILROAD.
- THE CONTRACTOR IS REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH ALL APPLICABLE OSHA REGULATIONS AND FRA BRIDGE WORKER SAFETY RULES.
- THE CONTRACTOR IS ADVISED THAT THERE IS NO ELECTRIC POWER DISTRIBUTION SYSTEM AVAILABLE AT THE BRIDGE FOR HIS USE.
- ALTERATION OF THE CONSTRUCTION PLANS AND STRUCTURAL DETAILS ARE NOT PERMITTED WITHOUT EXPRESS PERMISSION OF NORFOLK SOUTHERN'S CHIEF ENGINEER OF BRIDGES AND STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE WORK.
- ALL TRAFFIC CONTROL MEASURES NEEDED TO COMPLETE WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATION AND ANY LOCAL CODES OR ORDINANCES THAT MAY APPLY.

DESIGN LOADING:

- ALL LOADS ARE PER AASHTO CURRENT EDITION.

DEMOLITION PLAN & FRECTION PLAN NOTES:

- THE CONTRACTOR IS REQUIRED TO SUBMIT PLANS FOR THE SAFE DEMOLITION AND ANY NECESSARY FORMING OF THE EXISTING STRUCTURE IN ORDER TO PERFORM ALL NEEDED REPAIRS, TO THE RAILROAD PRIOR TO BEGINING WORK.
- THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED & REMOVED SUBSTRUCTURE & FILL MATERIALS AND DEMOLISHED MATERIALS OFF-SITE IN A LEGAL MANNER UNLESS OTHERWISE DIRECTED BY N.S. REPRESENTATIVES IN THE FIELD.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL PLAN, AND THIS SHOULD BE INCLUDED IN THE BID PRICE FOR MOBILIZATION OF THE EXISTING STRUCTURE.

PROTECTION OF RAILROAD NOTES:

- WHERE APPLICABLE, OPERATIONS SHALL BE COORDINATED WITH THE RAILROAD SO AS NOT TO INTERFERE WITH THE CONTINUED OPERATIONS OF TRAINS. A RAILROAD FLAGMAN (SUPPLIED BY NORFOLK SOUTHERN) SHALL BE PRESENT FOR ANY AND ALL WORK ABOVE OR UNDEREATH THE BRIDGE ADJACENT TO THE TRACK.
- THE CONTRACTOR IS REQUIRED TO FULLY COOPERATE WITH THE NORFOLK SOUTHERN FLAGMAN AND/OR NORFOLK SOUTHERN REPRESENTATIVE & IMMEDIATELY REMOVE ALL EQUIPMENT & PERSONNEL WORKING NEAR THE TRACK WHEN DIRECTED AS SUCH BY THE FLAGMAN.

UTILITIES:

- THE CONTRACTOR SHALL BE AWARE OF THE OVERHEAD ELECTRIC AND UTILITY LINES ABOVE/UNDER AND PARALLEL TO THE EXISTING BRIDGE.

OTHER:

- THE WORK FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE NORFOLK SOUTHERN STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION DATED JANUARY 2019, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR BRIDGE CONSTRUCTION, CURRENT EDITION AND ANY SPECIAL PROVISIONS PROVIDED HEREIN.
- NS WILL FURNISH A FLAGMAN AT NO COST TO THE CONTRACTOR. THE CONTRACTOR WILL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE NS FLAGMAN.
- THE CONTRACTOR SHALL SUBMIT TO NS A PROPOSED CONSTRUCTION SCHEDULE PRIOR TO BEGINNING WORK AND WILL SCHEDULE A PRECONSTRUCTION MEETING ONCE A CONTRACT HAS BEEN AWARDED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT NS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES NOT LESS THAN 72 HOURS BEFORE STARTING EXCAVATION ACTIVITIES.
- RAILROAD RIGHT OF WAY LINES, IF SHOWN, WERE OBTAINED FROM VALUATION MAPS. ALL RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATION PURPOSES ONLY AS THEY HAVE NOT BEEN VERIFIED IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LOCAL CONSTRUCTION PERMITS THAT MAY BE REQUIRED FOR CONSTRUCTION OF THIS PROJECT.
- ANY SURVEYS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN ANY TEMPORARY CONSTRUCTION ENTRANCE AND/OR DRIVEWAY PERMITS FROM THE APPROPRIATE GOVERNING AGENCY.
- ON SITE AND GENERATED CONSTRUCTION DEBRIS IS TO BE DISPOSED OF AS NON-REGULATED SOLID WASTE IN COMPLIANCE WITHIN LOCAL REGULATIONS. IF SUSPECTED ENVIRONMENTAL PROBLEMS ARE ENCOUNTERED, CONTACT THE NS ENVIRONMENTAL PROTECTION DEPARTMENT TO ASSIST IN THEIR PROPER HANDLING AND REMOVAL.
- THE CONTRACTOR SHALL COORDINATE WITH NS SIGNALS DEPARTMENT FOR THE LOCATIONS OF SIGNAL WIRE WHETHER LIVE OR DEAD BEFORE ANY EXCAVATION WORK.
- ALL CONCRETE REPAIRS SHALL BE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR BRIDGE CONSTRUCTION, CURRENT EDITION.

SCOPE OF WORK:

- PROVIDE TRAFFIC CONTROL
- DEMO EXISTING PARAPET WALL AND JERSEY BARRIERS AS REQUIRED
- REPAIR EXISTING BRIDGE SUBSTRUCTURE AND SUPERSTRUCTURE AS NOTED
- REBUILD JERSEY BARRIER WALL AND PROTECTION FENCE
- ATTACH "THRIE BEAM TO BRIDGE BARRIER" TO BRIDGE AND EXISTING GUARDRAIL AS APPROPRIATE
- BARRIER WALL CORNERS WITHOUT EXISTING GUARDRAIL TO ATTACH SHALL RECEIVE PENNDOT APPROVED END TREATMENT
- REOPEN STRUCTURE TO NORMAL TRAFFIC


INDEX OF DRAWINGS

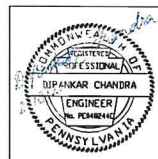
DESCRIPTION	SHEET NO	REV. DATE
COVER SHEET	1	02-08-2021
GENERAL NOTES & INDEX OF DRAWINGS	2	02-08-2021
GENERAL SITE PLAN	3	03-13-2020
EXISTING NORTH ELEVATION & CROSS-SECTION	4	03-13-2020
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PROPOSED CORNER CONCRETE REPAIR	9	03-13-2020
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PROPOSED THRIE-BEAM TO BRIDGE BARRIER WALL	13	03-13-2020
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PROPOSED SAW-CUTS AND TOP-DOWN VIEW NEAR SPANDREL	15	02-08-2021
AD. REINFORCEMENT AND DETAILS NEAR SPANDREL	16	02-08-2021

ESTIMATE OF QUANTITIES

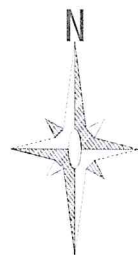
BID ITEM	DESCRIPTION	QTY	UNIT
1.	MOBILIZATION	1	LS
2.	EAST ABUTMENT REPAIRS* (APPROX. 125)	1	LS
3.	WEST ABUTMENT REPAIRS* (APPROX. 125)	1	LS
4.	PROPOSED BRIDGE BARRIER WALL W/ PROTECTION (APPROX. 240)	1	LS
5.	PERFORMANCE BOND	1	LS
6.	PAYMENT BOND	1	LS
7.	TIE-ROD ASSEMBLY (INCLUDES 2 ARRESTER PLATES AND 4 NUTS)	34	EACH
8.	LIGHT-WEIGHT CONCRETE (WITH LIGHT-WEIGHT COARSE AGGREGATES)	32	CU. YD.
9.	3/4"Ø DOWEL (#6, MIN. LENGTH 24.5", MAX. LENGTH 54.5")	292	EACH
10.	SAW CUT CONCRETE FACES*	1	LS

*INCLUDES EXCAVATION, REMOVAL OF LOOSE CONCRETE, CONCRETE, EPOXY, REBAR, HAULING OFF ANY DEBRIS AND RESTORING THE SITE TO ITS ORIGINAL CONDITION.

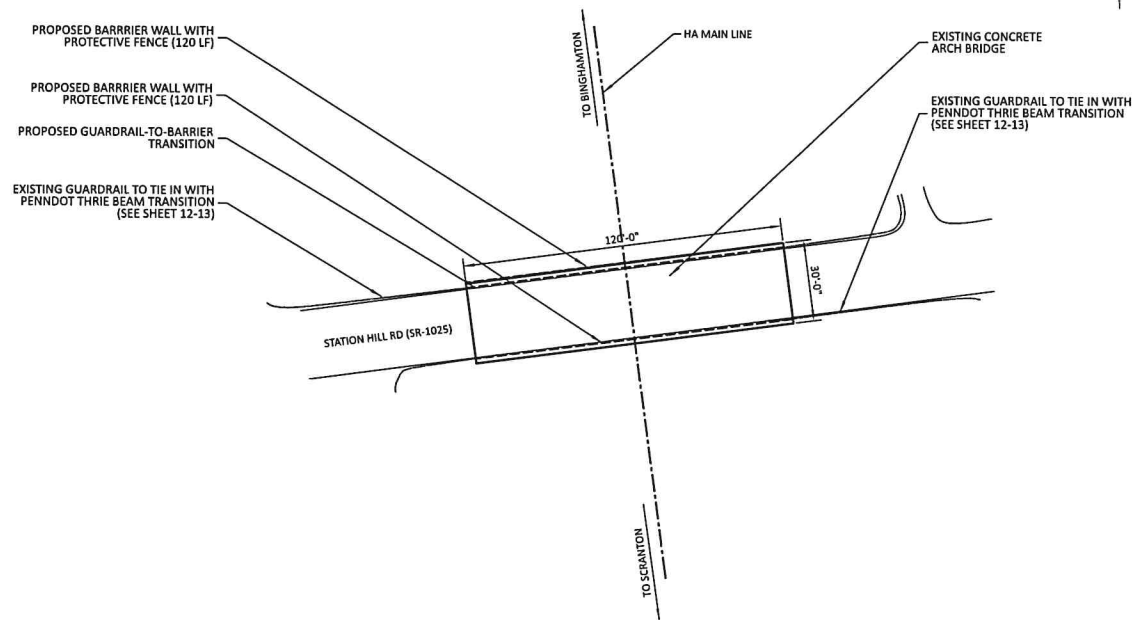
		NORFOLK SOUTHERN RAILWAY	
		NORTHERN REGION	HARRISBURG DIV.
OVERPASS SR-1025 HA LINE, NICHOLSON, PA BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA.	
DRAWING TITLE: GENERAL NOTES & INDEX OF DRAWINGS			
DCN DC	VAL SEC	MAP	MLE POST HA-652.69
CHK WKM	FILE	DATE	02/08/2021
SHEET NUMBER 2 OF 16		DRAWING NUMBER HA-652.69	



DC	02-09-21	REVISIONS
COB	12-31-19	PENNDOT REVISIONS
REV	BY	DATE DESCRIPTION
RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142		

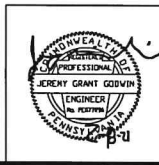


NOTES:
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 2. THE CONTRACTOR SHALL MEASURE AND VERIFY ALL MEASUREMENTS NEEDED TO COMPLETE THE SCOPE OF WORK IN AN APPROVED AND CORRECT MANNER.



EXISTING PLAN

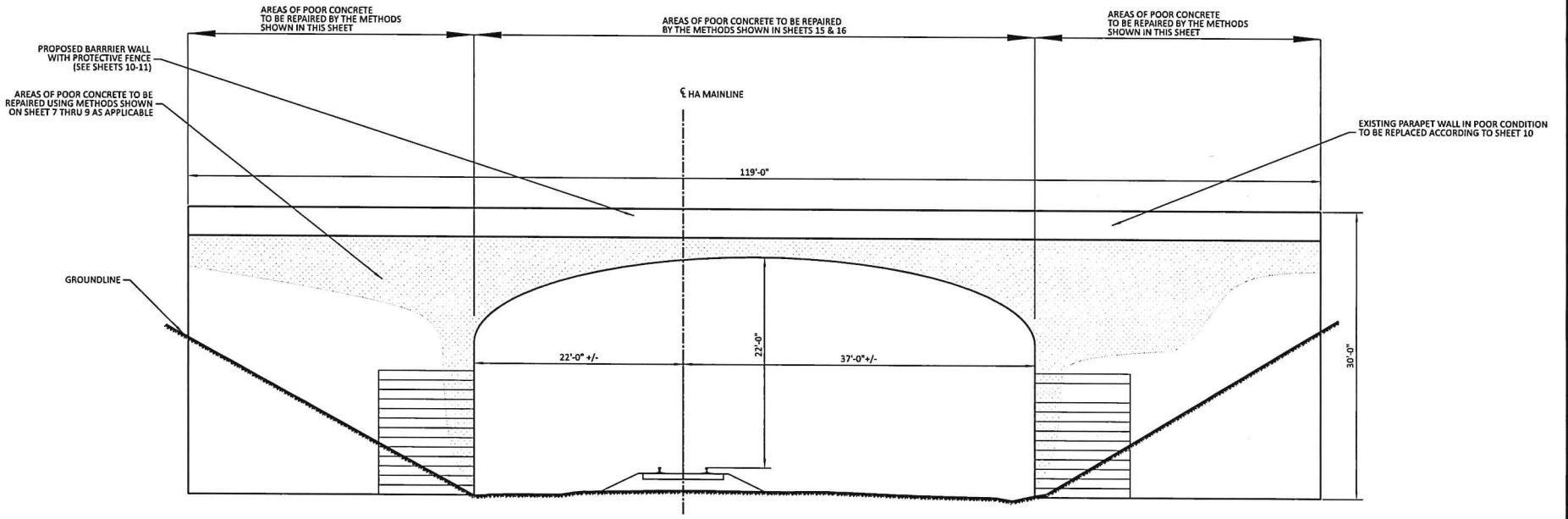
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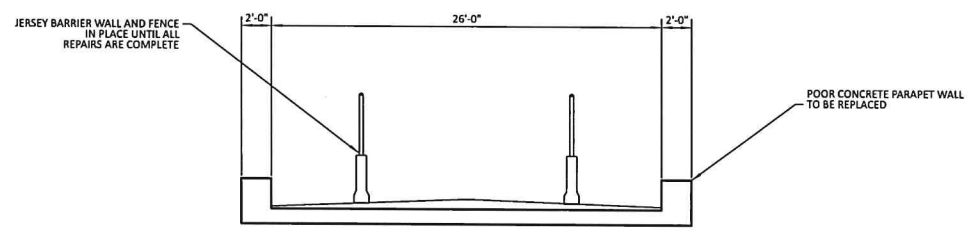
REV	BY	DATE	DESCRIPTION
1	CGB	02-08-21	REVISION 2
2	CGB	12-31-19	PENNDOT REVISIONS

RAILROAD CONSULTANTS, PLLC
 213 UPTOWN SQUARE
 MURFREESBORO, TN 37129
 (p) 615.663.1142

NS NORFOLK SOUTHERN			
NORFOLK SOUTHERN RAILWAY		HARRISBURG DIV.	
NORTHERN REGION			
OVERPASS SR-1025			
HA LINE, NICHOLSON, PA			
BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA	
DRAWING TITLE: GENERAL SITE PLAN			
DGN MCC	VAL SEC	MAP	MILE POST HA-652.69
CHK WKM	FILE	DATE	02/08/2021
SHEET NUMBER 3 OF 16		DRAWING NUMBER HA-652.69	



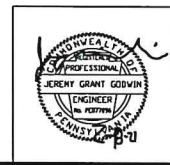
EXISTING NORTH ELEVATION
SCALE : $\frac{1}{8}'' = 1'$



EXISTING ROAD CROSS-SECTION
SCALE : $\frac{1}{4}'' = 1'$

NOTES:
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		NORFOLK SOUTHERN RAILWAY	
		NORTHERN REGION	HARRISBURG DIV.
OVERPASS SR-1025 HA LINE, NICHOLSON, PA BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA.	
DRAWING TITLE EXISTING NORTH ELEVATION & CROSS-SECTION			
DDN MCC	VAL SEC	MAP	MILE POST HA-652.69
CHK WKM	FILE	DATE 02/08/2021	
SHEET NUMBER 4 OF 16		DRAWING NUMBER HA-652.69	



REV	BY	DATE	DESCRIPTION
△	CGB	02-08-21	REVISION 2
△	CGB	12-31-19	PENNDOT REVISIONS
RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142			

PROPOSED BARRIER WALL WITH PROTECTIVE FENCE (SEE SHEETS 10-11)

AREAS OF POOR CONCRETE TO BE REPAIRED USING METHODS SHOWN ON SHEET 7 THRU 9 AS APPLICABLE

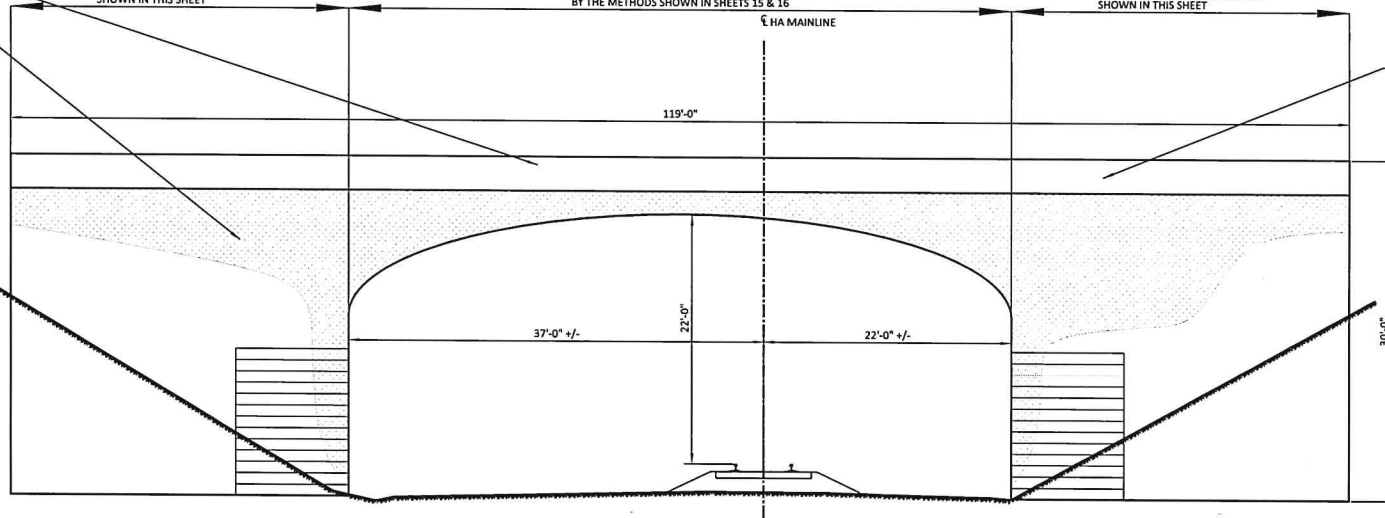
AREAS OF POOR CONCRETE TO BE REPAIRED BY THE METHODS SHOWN IN THIS SHEET

AREAS OF POOR CONCRETE TO BE REPAIRED BY THE METHODS SHOWN IN SHEETS 15 & 16

AREAS OF POOR CONCRETE TO BE REPAIRED BY THE METHODS SHOWN IN THIS SHEET

EXISTING PARAPET WALL IN POOR CONDITION TO BE REPLACED ACCORDING TO SHEET 10

GROUNDLINE

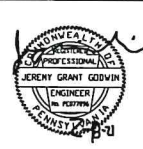


EXISTING SOUTH ELEVATION

SCALE : $\frac{1}{16}'' = 1'$

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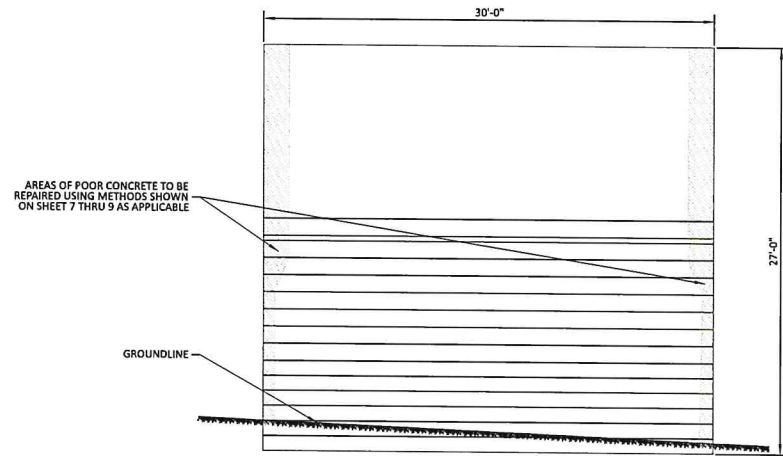


△	CGB	02-08-21	REVISION 2
△	CGB	12-31-19	PENNDOT REVISIONS
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RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142			

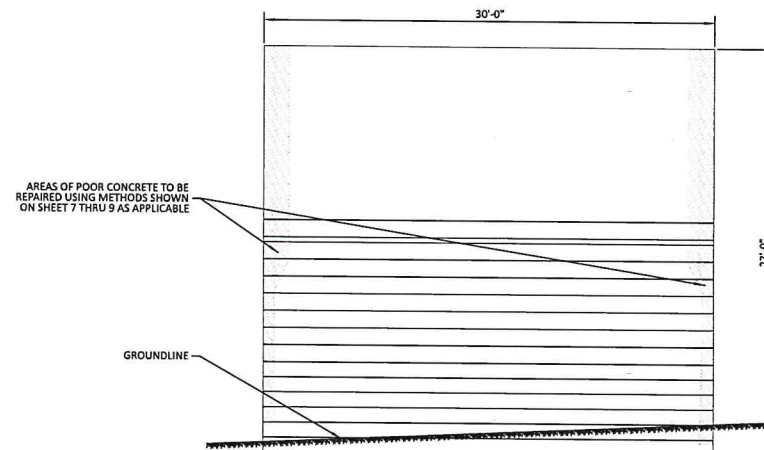
NS NORFOLK SOUTHERN			
NORTHERN REGION	NORFOLK SOUTHERN RAILWAY		HARRISBURG DIV.
OVERPASS SR-1025			
HA LINE, NICHOLSON, PA			
BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES			ATLANTA, GA.
EXISTING SOUTH ELEVATION			
DGN MCC	VAL SEC	MAP	MILE POST HA-652.69
CHK WKM	FILE	DATE	02/08/2021
SHEET NUMBER 5 OF 16		DRAWING NUMBER HA-652.69	

NOTES:

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EXISTING EAST ABUTMENT ELEVATION



EXISTING WEST ABUTMENT ELEVATION

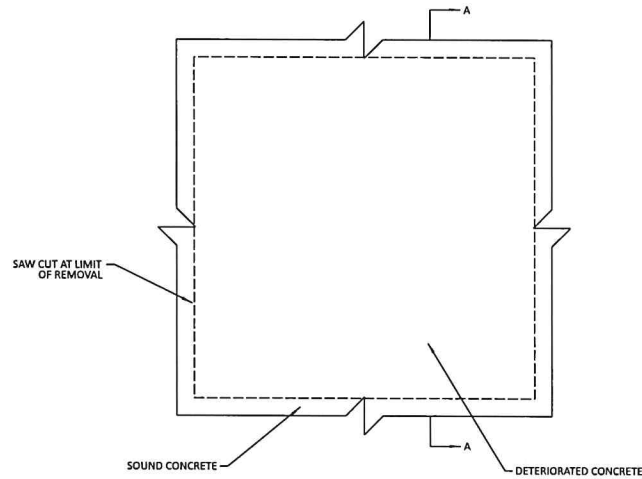


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△	CGB	02-08-21	REVISION 2
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RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142			

NORFOLK SOUTHERN			
NORTHERN REGION		HARRISBURG DIV.	
OVERPASS SR-1025 HA LINE, NICHOLSON, PA BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA.	
DRAWING TITLE: EAST & WEST ABUTMENT ELEVATION			
DCN MCC	VAL SEC	MAP	M.I.C. POST HA-652.69
CHK WKM	FILE	DATE	02/08/2021
SHEET NUMBER 6 OF 16		DRAWING NUMBER HA-652.69	

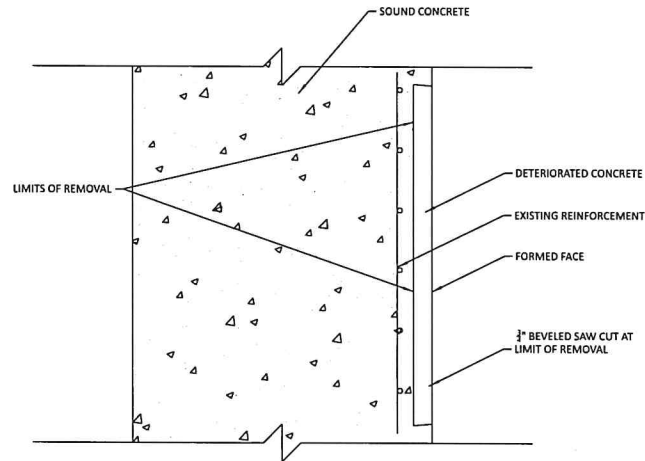
NOTES:

1. ALL REPAIRS SHALL BE MADE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR BRIDGE CONSTRUCTION BC-783M
2. SQUARE OFF DETERIORATED CONCRETE TO SOUND CONCRETE WITH A SAWCUT OF $\frac{3}{4}$ " MAXIMUM.
3. REMOVE ALL LOOSE AND DELAMINATED CONCRETE TO PROVIDE A SOUND BOND BETWEEN EXISTING CONCRETE AND PATCHING MATERIAL.
4. APPLY A RAPID HARDENING CONCRETE PATCHING MATERIAL FROM A MANUFACTURER LISTED IN BULLETIN 15 UNDER MISCELLANEOUS POLYMER MODIFIED AND SPECIAL CEMENTS, MORTARS AND CONCRETES, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



ELEVATION VIEW (TYP)

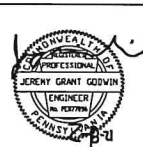
SCALE : NOT TO SCALE



SECTION A-A (TYP)

SCALE : NOT TO SCALE

NOTE:
THIS REPAIR IS TO BE USED FOR REPAIRS ON UNDERSIDE OF DECK, ELEVATIONS AND REPAIRS TO PORTIONS OF DELAMINATED FACES OF ABUTMENTS UP TO $\frac{3}{4}$ " THICKNESS.

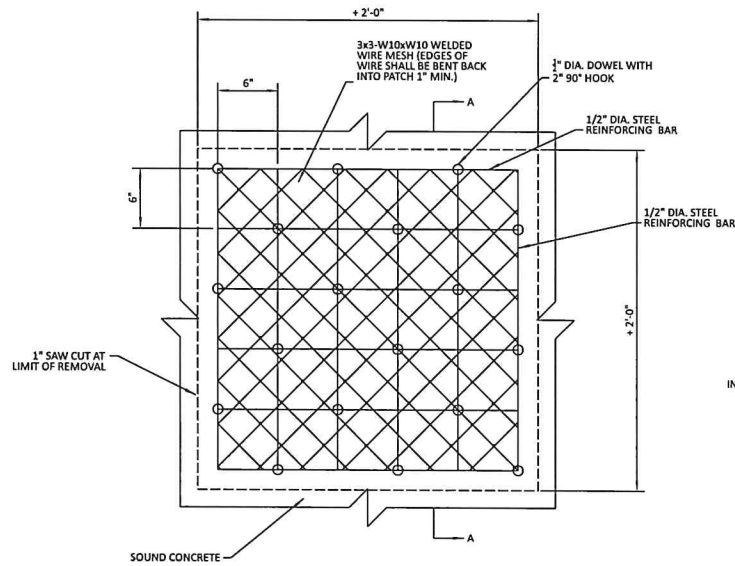


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△	CGB	12-31-19	PENNDOT REVISIONS
REV	BY	DATE	DESCRIPTION
RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142			

NORFOLK SOUTHERN			
NORTHERN REGION		HARRISBURG DIV.	
OVERPASS SR-1025			
HA LINE, NICHOLSON, PA			
BRIDGE REPAIRS			
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES		ATLANTA, GA.	
DRAWING TITLE: PROPOSED TYPE 1 CONCRETE REPAIR			
DCM	MCC	VAL	SEC
MAP	DATE		HA-652.69
CHR	DBG	FILE	DATE
SHEET NUMBER		DRAWING NUMBER	
7 OF 16		HA-652.69	

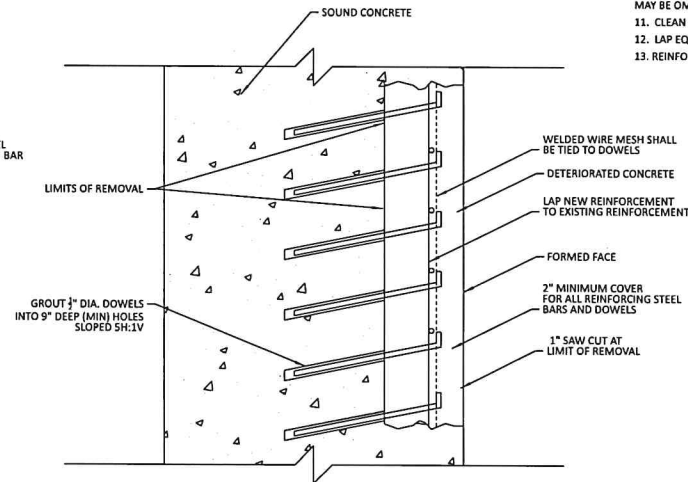
NOTES:

1. ALL REPAIRS SHALL BE MADE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS FOR BRIDGE CONSTRUCTION BC-783M.
2. SQUARE OFF DETERIORATED CONCRETE TO SOUND CONCRETE WITH A SAWCUT OF 3/4" MINIMUM TO 1" MAXIMUM BUT NOT TO THE DEPTH OF THE REINFORCEMENT STEEL. BACK BEVEL EDGE BEYOND SAWCUT.
3. USE HAND TOOLS TO REMOVE ALL LOOSE AND DELAMINATED CONCRETE THAT PROVIDES A SOUND BOND BETWEEN EXISTING CONCRETE AND NEW CONCRETE. PNEUMATIC HAMMERS WITH IMPACT RATINGS OF 30 FT/LB OR LESS MAY BE USED IF REQUIRED.
4. IF DETERIORATED CONCRETE EXTENDS BEYOND THE PRIMARY REINFORCEMENT, REMOVE THE CONCRETE TO AT LEAST 3/4" BEHIND THE REINFORCEMENT.
5. APPLY AN EPOXY BONDING COMPOUND BETWEEN THE EXISTING AND THE NEW CLASS AA CEMENT CONCRETE.
6. USE DOWELS ONLY WHEN W DIMENSION OF DETERIORATED CONCRETE IS GREATER THE 2'-0" AND NEW OR EXISTING REINFORCEMENT CANNOT ADEQUATELY BE DEVELOPED BY LAPPING WITH EXISTING REINFORCEMENT.
7. USE A PACHOMETER TO LOCATE EXISTING REINFORCEMENT WHEN DRILLING DOWEL HOLES TO AVOID DRILLING THRU EXISTING BARS.
8. AN APPROVED EPOXY ANCHORING SYSTEM IN 90° HOLES MAY REPLACE GROUT IN SLOPED HOLES. USE A 6" MINIMUM EMBEDMENT AND IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
9. A #4 DEFORMED REINFORCEMENT BENT "L" BAR MAY REPLACE THE 1/2" DIA DOWEL HOOK.
10. ALTERNATE WIRE MESH MAY BE SUBSTITUTED FOR 3X3-W10XW10, PROVIDED WIRE SPACING DOES NOT EXCEED 4" AND AN EQUIVALENT STEEL AREA IS PROVIDED, NEW REINFORCEMENT BARS MAY BE OMITTED IF WIRE MESH STEEL AREA EXCEEDS EXISTING REINFORCEMENT.
11. CLEAN EXISTING REINFORCEMENT BY MECHANICAL MEANS.
12. LAP EQUIVALENT NEW REINFORCEMENT TO THE EXISTING REINFORCEMENT AS DIRECTED.
13. REINFORCEMENT BARS TO BE EPOXY COATED.



ELEVATION VIEW (TYP)

SCALE : NOT TO SCALE



SECTION A-A (TYP)

SCALE : NOT TO SCALE

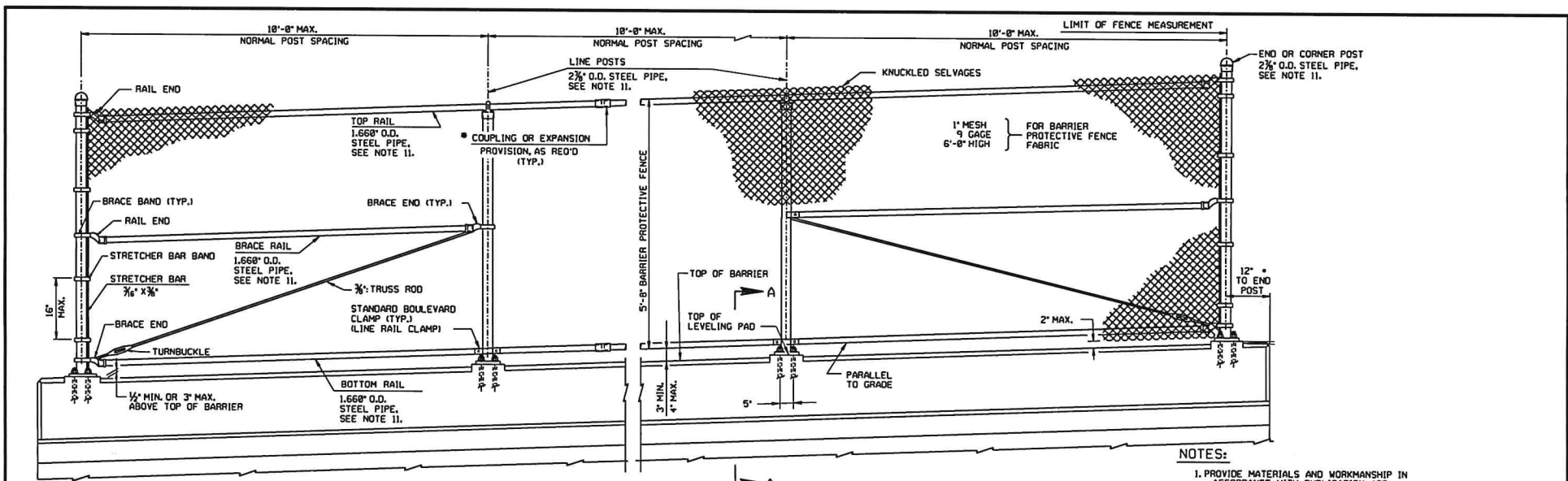
NOTE:
THIS REPAIR IS TO BE USED FOR REPAIRS ON UNDERSIDE OF DECK, ELEVATIONS AND REPAIRS TO PORTIONS OF DELAMINATED FACES OF ABUTMENTS OVER 3/4" THICKNESS.



REV	BY	DATE	DESCRIPTION
△	CGB	02-08-21	REVISION 2
△	CGB	12-31-19	PENNDOT REVISIONS

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NORFOLK SOUTHERN		
NORFOLK SOUTHERN RAILWAY	HARRISBURG, PA	
OVERPASS SR-1025		
HA LINE, NICHOLSON, PA		
BRIDGE REPAIRS		
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES ATLANTA, GA.		
DRAWING TITLE: PROPOSED TYPE 2 CONCRETE REPAIR		
DCN MCC	VAL SEC MAP	MLC POST HA-652.69
CHK DBG	FILE	DATE 02/08/2021
SHEET NUMBER 8 OF 16		DRAWING NUMBER HA-652.69

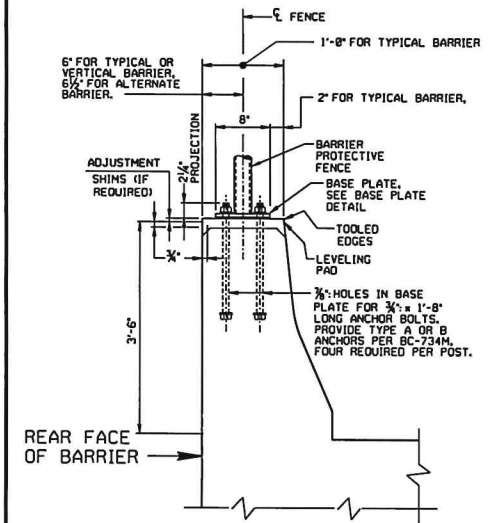


TYPICAL FENCE ELEVATION

#9" MIN. DISTANCE TO STRUCTURE EXPANSION JOINT.

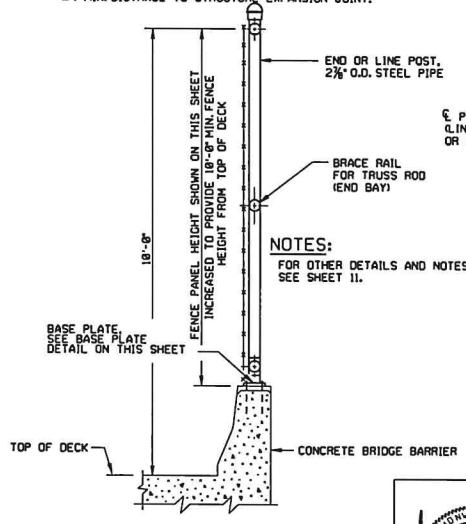
NOTES:

1. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUBLICATION 408.
2. PROVIDE SHIMS FROM APPROVED MATERIAL.
3. ONLY TOUCH-UP PAINTING OF MATERIAL IS PERMITTED.
4. PLACE FENCE POSTS AND ANCHOR BOLTS TRULY VERTICAL. PLACE RAILS PARALLEL TO GRADE.
5. NO LIGHTING POLES ARE USED.
6. AT BRIDGE EXPANSION JOINTS, PERMIT THE FENCE FABRIC AND RAILS TO EXPAND OR CONTRACT.
7. CLIP THE TIE WIRE FASTENERS AND BEND AWAY FROM TRAFFIC.
8. COAT ALL SURFACES OF THE BASE PLATES IN CONTACT WITH CONCRETE WITH CAULKING COMPOUND PRIOR TO ERECTION AND ALIGNMENT. AFTER ERECTION AND ALIGNMENT, SEAL OPENINGS BETWEEN THE METAL SURFACES AND THE CONCRETE WITH CAULKING COMPOUND MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 705.8(b).
9. PLACE ANCHOR BOLTS WITH SIDEWALK OR BARRIER AND ACCURATELY SET AND BRACE AGAINST DISPLACEMENT BEFORE THE SURROUNDING CONCRETE IS PLACED. LEVEL THE BASE PLATE AND THEN PLACE THE LEVELING PAD USING RAPID SET CONCRETE.
10. DESIGN DRAINAGE SYSTEM IN ACCORDANCE WITH DM4, SECTION PP 3.2.3.
11. POSTS AND RAIL MATERIAL PER PUBLICATION 408, SECTION 1016.2(a)(3).
12. REFER TO CONTRACT DOCUMENTS FOR POST SPACING.
13. PLACE CORNER POSTS AT ANGLE POINTS IN HORIZONTAL AND VERTICAL ALIGNMENT OF FENCE.



SECTION A-A

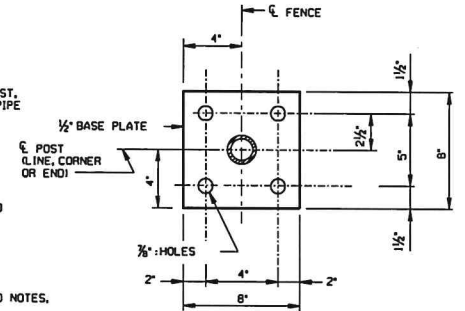
TYPICAL FENCE POST SECTION, ALTERNATE SIDEWALK DETAIL SHOWN (TYP. AND ALT. CONCRETE BARRIER SIMILAR)



SECTION D-D

TYPICAL CONCRETE BARRIER AND NO SIDEWALK

BARRIER MOUNTED DETAILS



BASE PLATE DETAIL

(ALL DIMENSIONS ARE TYPICAL UNLESS NOTED OTHERWISE) N.T.S.

NOTES:

FOR OTHER DETAILS AND NOTES, SEE SHEET 11.



REV	BY	DATE	DESCRIPTION
1	CGB	02-08-21	REVISION 2
2	CGB	12-31-19	PENNDOT REVISIONS

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MURFREESBORO, TN 37129
(p) 615.663.1142

NORFOLK SOUTHERN
NORFOLK SOUTHERN RAILWAY
NORTHERN REGION HARRISBURG DIV

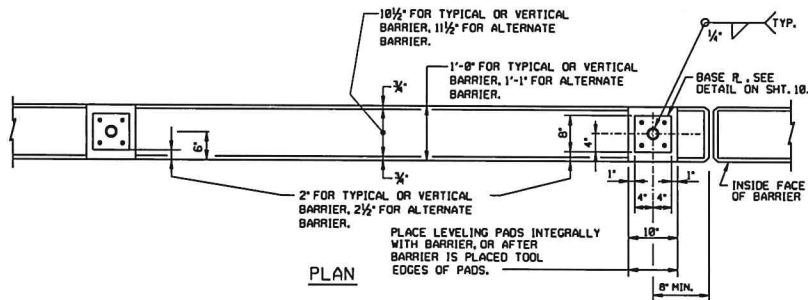
OVERPASS SR-1025
HA LINE, NICHOLSON, PA
BRIDGE REPAIRS

OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES ATLANTA, GA.

DRAWING TITLE: **PROPOSED PROTECTIVE FENCE**

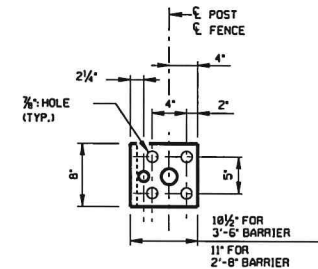
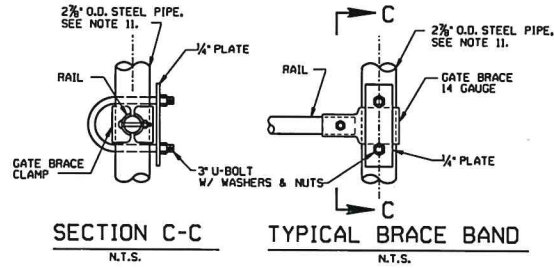
DNH MCC	VAL SEC	MAP	HA-652.69
CHK DBG	FILE	DATE	02/08/2021

SHEET NUMBER 11 OF 16 DRAWING NUMBER HA-652.69

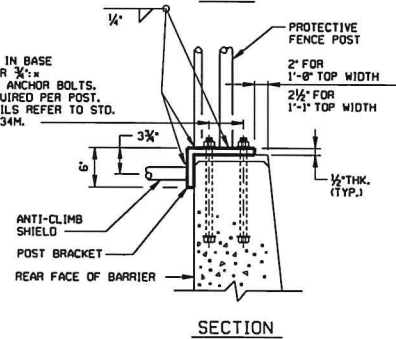


BARRIER PROTECTIVE FENCE

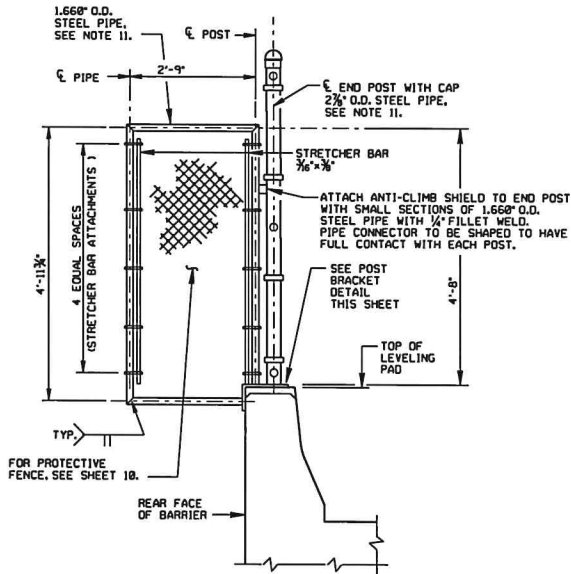
FOR BASE PLATE DETAIL, SEE SHEET 18.
ALTERNATE SIDEWALK DETAIL SHOWN
(TYP. AND ALT. CONCRETE BARRIER SIMILAR)



3/8" HOLES IN BASE PLATE FOR 3/8"x 1'-0" LONG ANCHOR BOLTS. FOUR REQUIRED PER POST. FOR DETAILS REFER TO STD. DWG. BC-734M.



POST BRACKET DETAIL AT ANTI-CLIMB SHIELD



ANTI-CLIMB SHIELD DETAILS
(1 REQ'D. FOR EACH END OF FENCE)



CGP	02-08-21	REVISION 2
CGP	12-31-19	PENNDOT REVISIONS
REV	BY	DATE
		DESCRIPTION
RAILROAD CONSULTANTS, PLLC 213 UPTOWN SQUARE MURFREESBORO, TN 37129 (p) 615.663.1142		

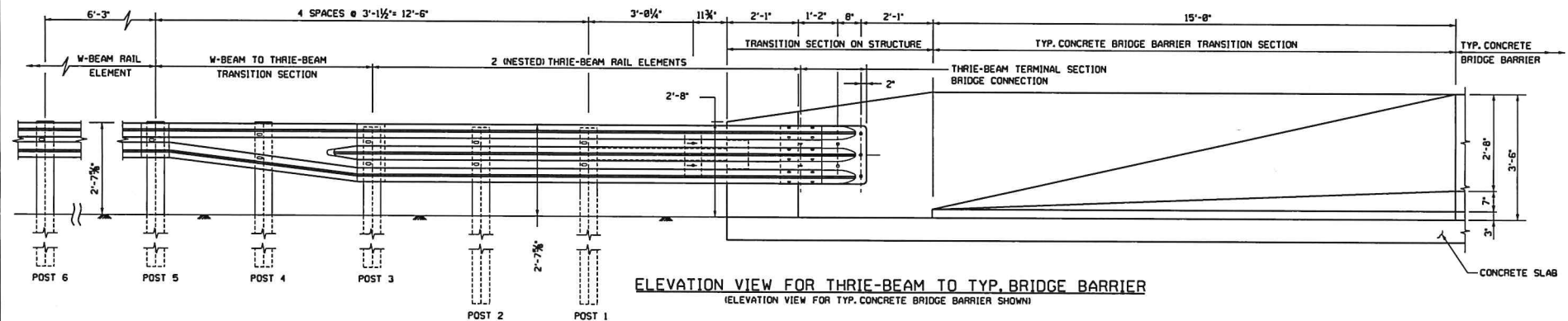
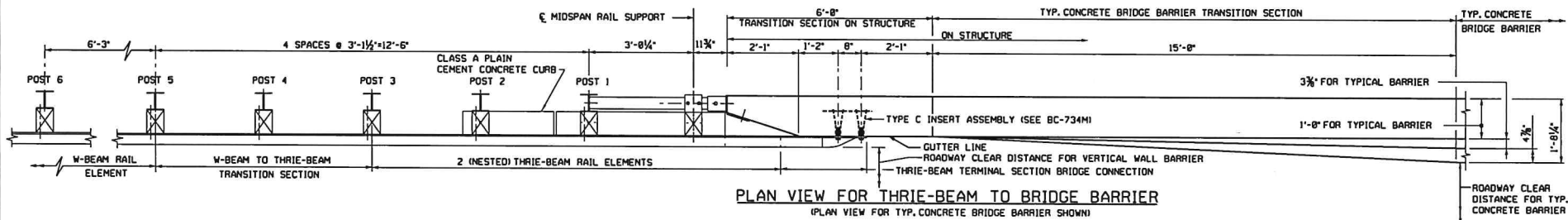
NORFOLK SOUTHERN
NORFOLK SOUTHERN RAILWAY
NORTHERN REGION HARRISBURG DIV.

OVERPASS SR-1025
HA LINE, NICHOLSON, PA
BRIDGE REPAIRS

OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES ATLANTA, GA.

DRAWING TITLE: PROPOSED PROTECTIVE FENCE - DETAILS

DN MCC	VAL SEC	MAP	MILE POST
CH DBG	FILE	DATE	HA-652.69
SHEET NUMBER 12 OF 16		DRAWING NUMBER HA-652.69	



NOTES:

1. THRIE-BEAM TO BRIDGE BARRIER TRANSITION HAS BEEN ACCEPTED BY FHWA AS A TL-3 BARRIER DESIGNATION.
2. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUB. 408.
3. USE PLAN DIMENSIONS WHEN DIFFERENT FROM THOSE SHOWN ON THIS STANDARD.
4. REINFORCED CONCRETE BARRIER AND EMBEDDED INSERTS ARE BRIDGE ITEMS.
5. SEE RC-98M AND RC-91M FOR DETAILS AND HARDWARE NOT SHOWN, (INCLUDING END TREATMENT)
6. PROVIDE APPROACH END GUIDE RAIL TREATMENT AT BOTH THE APPROACH AND TRAILING ENDS OF STRUCTURE BARRIERS ON TWO LANE FACILITIES WITH TWO-WAY TRAFFIC. ON FOUR LANE DIVIDED HIGHWAYS, GUIDE RAIL TRANSITION IS NOT REQUIRED ON TRAILING ENDS OF BARRIERS UNLESS WARRANTED BY OTHER OBSTRUCTIONS.
7. THE APPROACH END TRANSITION COMPONENTS ARE ROADWAY ITEMS.



REV	BY	DATE	DESCRIPTION
1	CGB	02-08-21	REVISION 2
2	CGB	12-31-19	PENNDOT REVISIONS

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NORFOLK SOUTHERN

NORFOLK SOUTHERN RAILWAY

NORTHERN REGION HARRISBURG DIV.

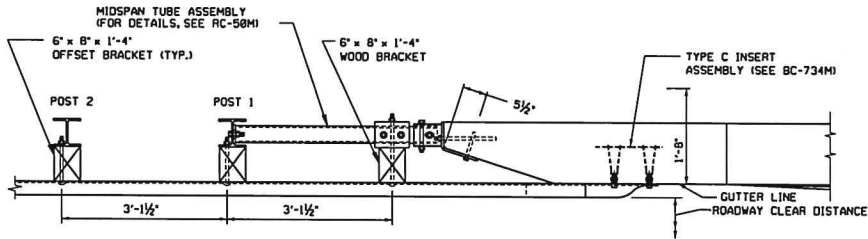
OVERPASS SR-1025

HA LINE, NICHOLSON, PA

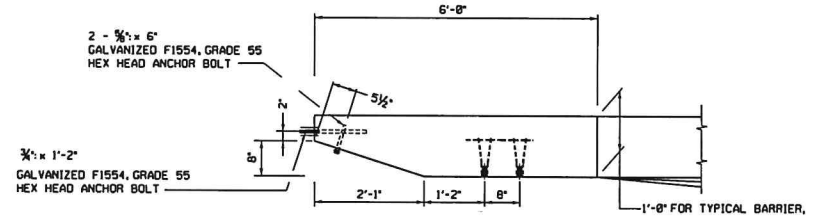
BRIDGE REPAIRS

OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES ATLANTA, GA.

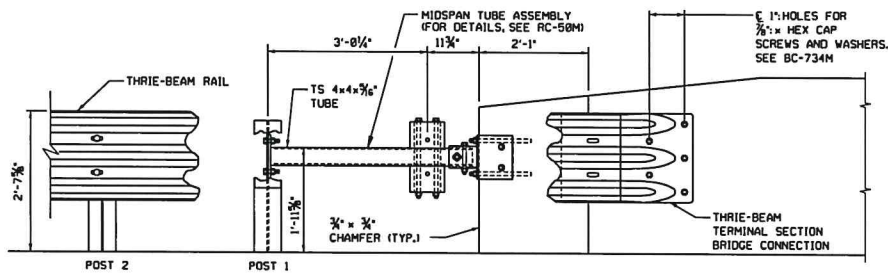
DRAWING TITLE: THRIE-BEAM TO BRIDGE BARRIER WALL			
DGN MCC	VAL SEC	MAP	MLE POST HA-652.69
CHK DBG	FILE	DATE	02/08/2021
SHEET NUMBER	13 OF 16	DRAWING NUMBER	HA-652.69



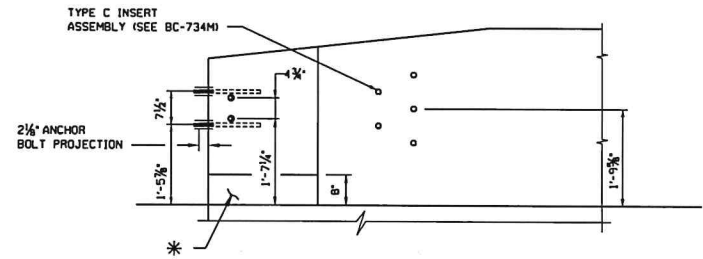
TRANSITION CONNECTION PLAN



BARRIER PLAN



TRANSITION CONNECTION ELEVATION



BARRIER ELEVATION

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 12.
2. FOR APPROACH TRANSITION POST DETAILS, SEE RC-50M.



REV	BY	DATE	DESCRIPTION
△	CGB	02-08-21	REVISION 2
△	CGB	12-31-19	PENNDOT REVISIONS
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NORFOLK SOUTHERN	
NORFOLK SOUTHERN RAILWAY	
NORTHERN REGION	HARRISBURG DIV.
OVERPASS SR-1025	
HA LINE, NICHOLSON, PA	
BRIDGE REPAIRS	
OFFICE OF CHIEF ENGINEER - BRIDGES & STRUCTURES	
ATLANTA, GA.	
DRAWING TITLE: THRIE-BEAM TO BRIDGE BARRIER WALL - DETAILS	
DGN MCC	VAL SEC MAP
CHK DBG	FILE
DATE 02/08/2021	
SHEET NUMBER 14 OF 16	DRAWING NUMBER HA-652.69

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Bridge Structure where State Route 1025 crosses over a single track of Delaware and Hudson Railway Company, Inc (264 293 K) in Nicholson Borough, Wyoming County	: M-2013-2364201
	: ELECTRONICALLY FILED
Investigation upon the Commission's own motion to determine the condition and disposition of six (6) existing structures carrying various highways above the grade of the tracks of the Canadian Pacific Railroad in Great Bend Township, New Milford Township, Brooklyn Township, Hop Bottom Borough, Lathrop Township, Susquehanna County, and Benton Township, Lackawanna County	: I-2015-2472242
	: ELECTRONICALLY FILED

CERTIFICATE OF SERVICE

I hereby certify that I served one (1) copy of *Norfolk Southern Railway Company's Revised Bridge Repair Plans* in the above-referenced matters, this day by electronic mail and U.S. Mail , addressed to:

Via Electronic Mail

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Ijeoma N. Okereke
Ijeoma N. Okereke, Secretary to
Benjamin C. Dunlap Jr., Esquire

Date: March, 12 2021