

JEF - SR 7-12.93
 210476 PID - 111601
 Dist 11 8/26/2021

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION

JEF-7-12.93

**MAINTENANCE OF EXISTING GRADE SEPARATION
 WITH NORFOLK SOUTHERN RAILWAY
 VILLAGE OF MINGO JUNCTION
 STEUBENVILLE TOWNSHIP
 JEFFERSON COUNTY**

PROJECT DESCRIPTION

MAINTAIN STRUCTURE JEF-7-1293 (SFN 4100603) BY
 CLEANING THE STEEL PIER CAPS AND INSTALLING ANIMAL
 GUARDS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.0 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

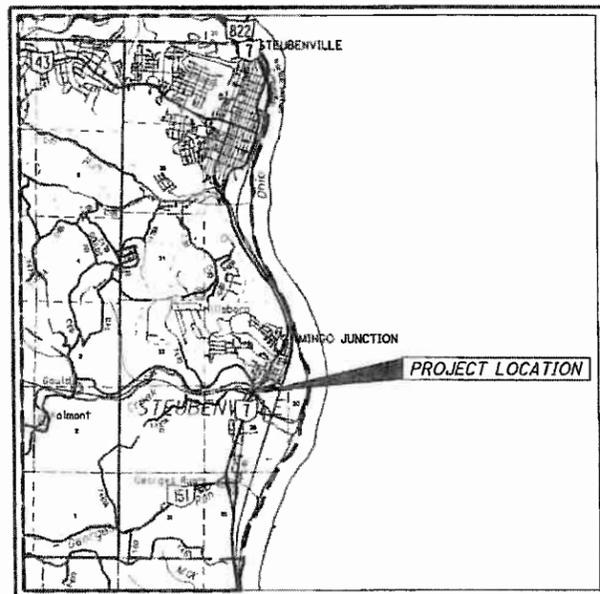
LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR
 THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED
 ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE
 DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF
 SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

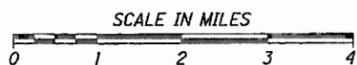
THE STANDARD SPECIFICATIONS OF THE STATE OF
 OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING
 SUPPLEMENTAL SPECIFICATIONS LISTED IN THE
 PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL
 GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT
 THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE
 THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT
 PROVISIONS FOR THE MAINTENANCE AND SAFETY OF
 TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND
 ESTIMATES.



LOCATION MAP

LATITUDE: 40°18'55" LONGITUDE: 80°36'50"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	-----
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

CURRENT ADT (2021)	-----	11,500
DESIGN YEAR ADT (2033)	-----	12,500
DESIGN HOURLY VOLUME (2033)	-----	1200
DIRECTIONAL DISTRIBUTION	-----	51%
TRUCKS (24 HOUR B&C)	-----	18%
Td	-----	10%
DESIGN SPEED	-----	55 MPH
LEGAL SPEED	-----	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
02 - OTHER FREEWAY OR EXPRESSWAY	-----	
NHS PROJECT	-----	YES

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES
 Contact Two Working Days
 Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
 (Non-members must be called directly)

PLAN PREPARED BY:
 O.D.O.T DISTRICT II
 ENGINEERING DEPARTMENT
 NEW PHILADELPHIA, OH

ENGINEER'S SEAL:



SIGNED: [Signature]
 DATE: May 3, 2021

INDEX OF SHEETS:

TITLE SHEET	1
GENERAL NOTES AND MAINTENANCE OF TRAFFIC	2
GENERAL SUMMARY	3
STRUCTURE (OVER 20 FT SPAN)	4-9

STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
MT-97.10	4/19/19	800-19	7/16/21
MT-105.10	1/17/20	832	10/19/18
DM-4.3	1/15/16		
DM-4.4	1/15/16		
TC-41.20	10/18/13		
TC-42.20	10/18/13		
TC-52.10	10/18/13		
TC-52.20	1/15/21		

APPROVED: [Signature]
 DATE: 3/3/21 DISTRICT DEPUTY DIRECTOR

APPROVED: [Signature]
 DATE: 7/13/21 DIRECTOR, DEPARTMENT OF
 TRANSPORTATION

FEDERAL PROJECT NO.
E201011

PTD NO.
111601

CONSTRUCTION PROJECT NO.

RAILWAY INVOLVEMENT
NORFOLK SOUTHERN

JEF-7-12.93

Contract Proposal available @
 www.contracts.dot.state.oh.us

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UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AEP OHIO POWER COMPANY
ATTN: PAUL PAXTON
777 HOPEWELL DRIVE
HEATH, OHIO 43056
614-883-6831
PTPAXTON@AEP.COM

AT&T OHIO, INC.
ATTN: BARRETT J. TAMASOVICH
160 NORTH 6TH STREET
ZANESVILLE, OHIO 43701
740-454-3552
BT2178@ATT.COM

COLUMBIA GAS OF OHIO, INC.
ATTN: TIMOTHY SEECH
300 LURAY DRIVE
WINTERSVILLE, OHIO 43953
740-266-4282
TGSEECH@NISOURCE.COM

COLUMBIA GAS TRANSMISSION
ATTN: ANTHONY WINTERS
4115 CORK BOCKTOWN ROAD
CLINTON, PA 15026
724-223-3944
ANTHONY_WINTERS@TCENERGY.COM

HORIZON NETWORK PARTNERS
ATTN: JIM LUMP
1123 GOODALE BLVD
COLUMBUS, OHIO 43212
740-703-8689
JIM.LUMP@HORIZONCONNECTS.COM

JEFFERSON COUNTY ENGINEER
ATTN: JAMES BRANAGAN
598 STATE ROUTE 43
STEBENVILLE, OHIO 43952
740-283-8574
ENGINEER@JEFFERSONCOUNTYOH.COM

VILLAGE OF MINGO JUNCTION
ATTN: GEORGE SPODDART
501 COMMERCIAL STREET
MINGO JUNCTION, OHIO 43938
740-535-9162
WATERPLANT@COMCAST.NET

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

WORK WITHIN RAILROAD RIGHT-OF-WAY

ALL WORK ON, OVER, UNDER, OR ADJACENT TO NORFOLK SOUTHERN RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE NORFOLK SOUTHERN "SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS" (NS SPECIAL PROVISIONS).

MINIMUM TEMPORARY RAILROAD CLEARANCES

A MINIMUM TEMPORARY VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF HIGHEST RAIL AND A MINIMUM TEMPORARY HORIZONTAL CLEARANCE OF 14'-0" SHALL BE MAINTAINED AT ALL TIMES.

ITEM 614, MAINTAINING TRAFFIC

SR 7:
ALL LANES OF SR 7 SHALL REMAIN OPEN AT ALL TIMES.

TR-167A, COMMERCIAL AVE. AND CLIFTON ST.:
TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS PER SPECIFICATION 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ONE LANE CLOSURE SHALL BE AS PER STANDARD DRAWING MT-97.10. ONE LANE TRAFFIC AS REQUIRED BY THE WORK SHALL BE HELD TO A MINIMUM AND SHALL ONLY OCCUR DURING WORKING HOURS. STREAM FLOW SHALL BE MAINTAINED AT ALL TIMES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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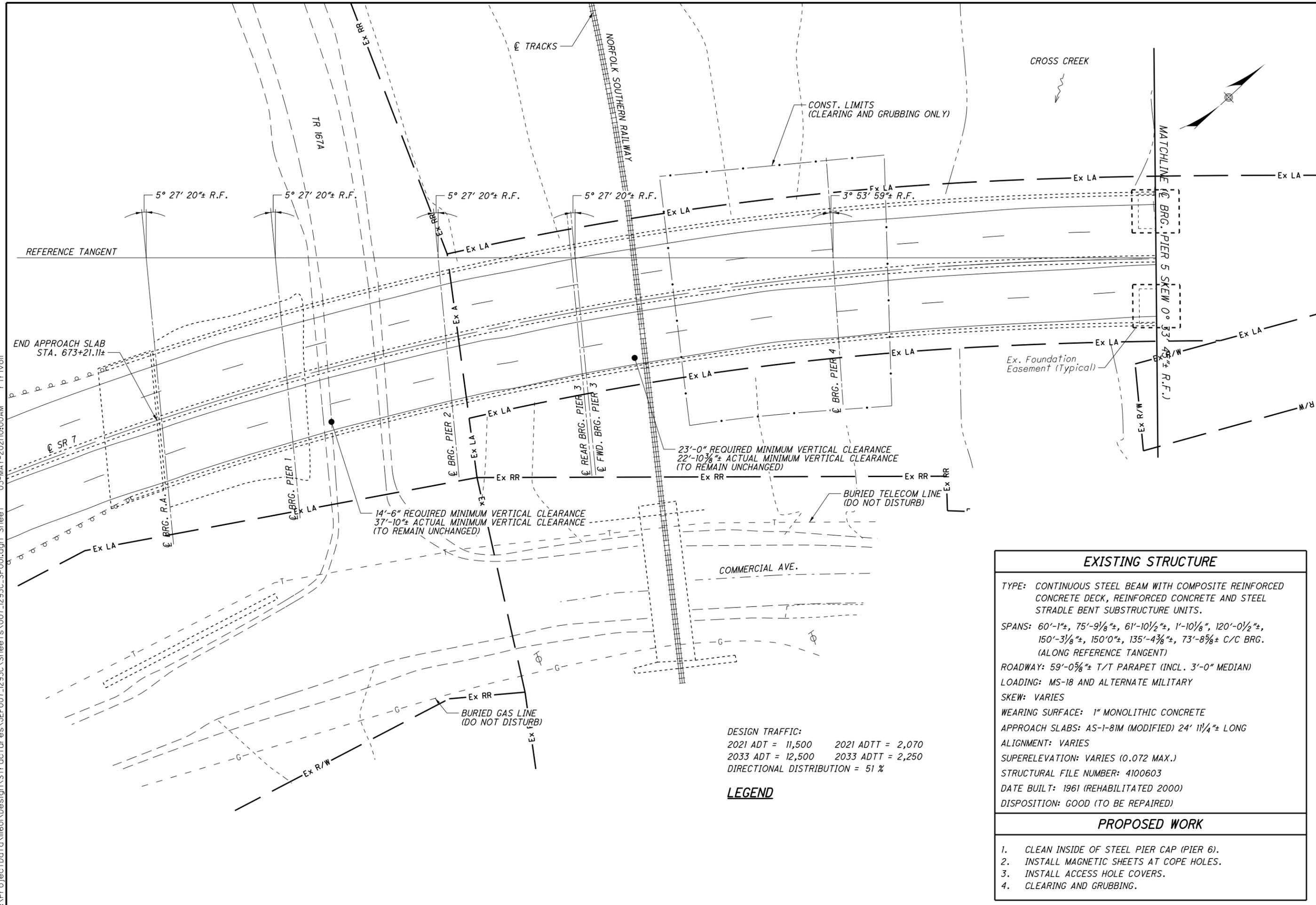
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GENERAL NOTES AND MAINTENANCE OF TRAFFIC

JEF-7-12.93

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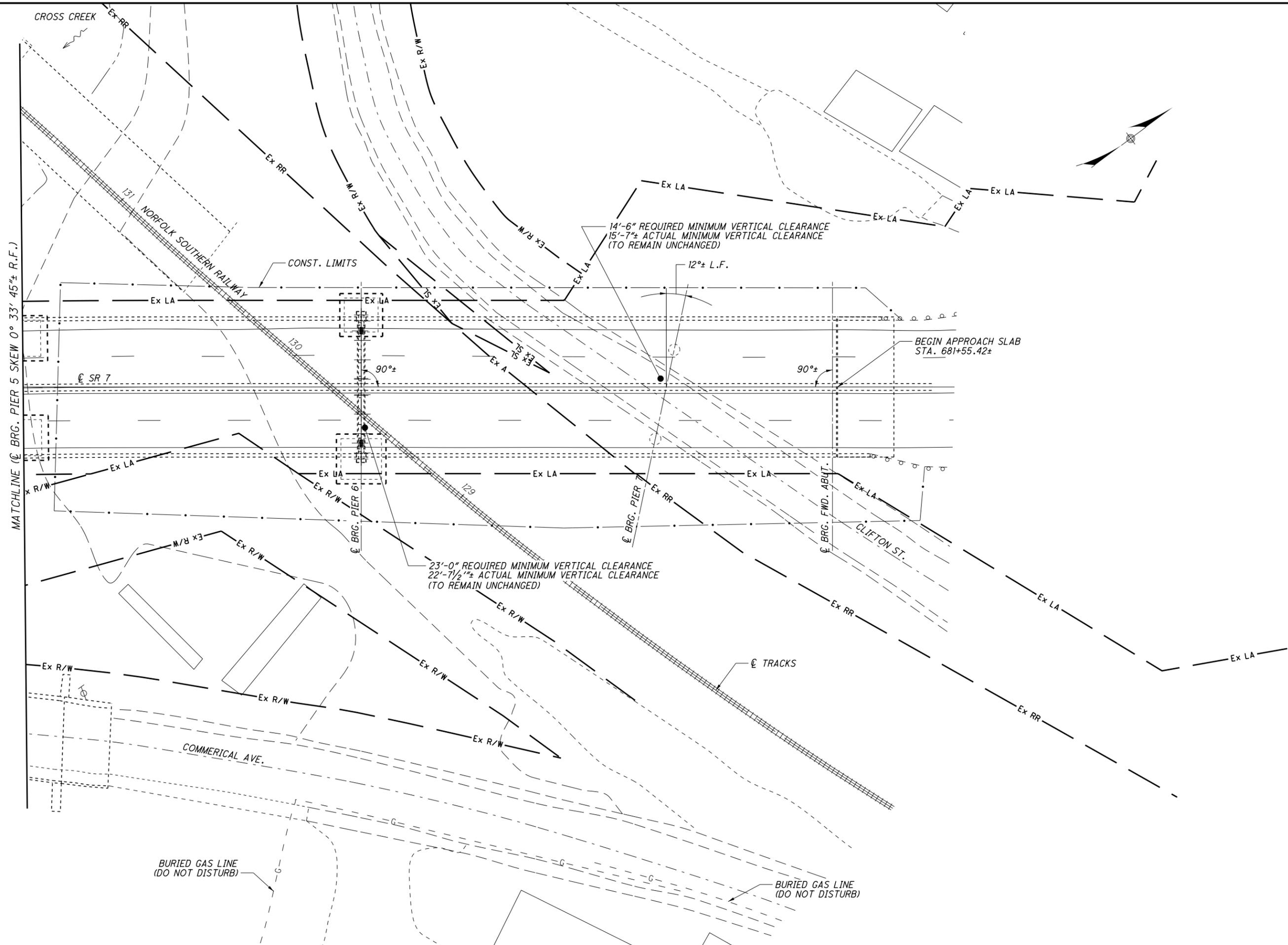
DESIGN TRAFFIC:
 2021 ADT = 11,500 2021 ADTT = 2,070
 2033 ADT = 12,500 2033 ADTT = 2,250
 DIRECTIONAL DISTRIBUTION = 51 %

LEGEND

EXISTING STRUCTURE	
TYPE: CONTINUOUS STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK, REINFORCED CONCRETE AND STEEL STRADLE BENT SUBSTRUCTURE UNITS.	
SPANS: 60'-1"±, 75'-9 1/8"±, 61'-10 1/2"±, 1'-10 1/8", 120'-0 1/2"±, 150'-3 1/8"±, 150'-0"±, 135'-4 3/8"±, 73'-8 3/8"± C/C BRG. (ALONG REFERENCE TANGENT)	
ROADWAY: 59'-0 5/8"± T/T PARAPET (INCL. 3'-0" MEDIAN)	
LOADING: MS-18 AND ALTERNATE MILITARY	
SKEW: VARIES	
WEARING SURFACE: 1" MONOLITHIC CONCRETE	
APPROACH SLABS: AS-1-81M (MODIFIED) 24' 11 1/4"± LONG	
ALIGNMENT: VARIES	
SUPERELEVATION: VARIES (0.072 MAX.)	
STRUCTURAL FILE NUMBER: 4100603	
DATE BUILT: 1961 (REHABILITATED 2000)	
DISPOSITION: GOOD (TO BE REPAIRED)	
PROPOSED WORK	
1. CLEAN INSIDE OF STEEL PIER CAP (PIER 6).	
2. INSTALL MAGNETIC SHEETS AT COPE HOLES.	
3. INSTALL ACCESS HOLE COVERS.	
4. CLEARING AND GRUBBING.	

JEF-7-12.93 PID No. 111601	SITE PLAN BRIDGE NO. JEF-7-1293 OVER TR-167A, CROSS CREEK, NS RAILWAY & CLIFTON ST	JEFFERSON COUNTY STA. 673+21.11 STA. 681+55.42	DESIGNED RPT CHECKED CCW	DRAWN RPT REVISED -	REVIEWED DJL STRUCTURE FILE NUMBER 4100603	DATE 02/19/21	DESIGN AGENCY O.D.O.T. DISTRICT 11 PLANNING AND ENGINEERING
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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

STRUCTURAL STEEL - ASTM A709 GRADE 50
-YIELD STRENGTH 50 KSI

EXISTING PLANS

THE EXISTING PLANS LISTED MAY BE INSPECTED IN THE ODOT DISTRICT 11 OFFICE IN NEW PHILADELPHIA, OHIO.

ORIGINAL CONSTRUCTION: JEF-7-13.36 (1960)
REHABILITATION: JEF-7-20.802 PID 13046 (1999) (METRIC)

THESE EXISTING PLANS CAN ALSO BE DOWNLOADED FROM THE FOLLOWING WEBSITE:
<http://www.dot.state.oh.us/Divisions/ContractAdmin/Contracts/Pages/designfiles.aspx>

ITEM 202, REMOVAL MISC.: STEEL BOX PIER CAP CLEANING AND DEBRIS REMOVAL

GENERAL:
THE CONTRACTOR SHALL CLEAN ALL ANIMAL DEBRIS AND WASTE FROM INSIDE THE STEEL BOX PIER CAP. THE DEBRIS AND WASTE SHALL BE PROPERLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY, IN ACCORDANCE WITH THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SECTION 105.17.

THE CONTRACTOR'S ON-SITE SUPERVISOR AND ALL EMPLOYEES ENTERING THE STEEL BOX PIER CAPS SHALL BE TRAINED IN CONFINED SPACE ENTRY AND RESCUE MEETING THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) REQUIREMENTS.

METHOD OF MEASUREMENT:
THE DEPARTMENT WILL MEASURE THIS ITEM OF WORK BY THE NUMBER OF FEET ALONG THE CENTERLINE OF BEARING FOR THE SUBJECT PIER CAP BEING CLEANED.

BASIS OF PAYMENT:
THE DEPARTMENT WILL PAY FOR ACCEPTED CLEANED AREAS, AT THE CONTRACT PRICE BID PER FOOT OF PIER CAP. PAYMENT SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT INCIDENTALS AND WASTE DISPOSAL NECESSARY TO COMPLETE THE ABOVE WORK.

**ITEM SPECIAL, STRUCTURES: 1" x 2'-0" x 15 MIL SHEET MAGNET
ITEM SPECIAL, STRUCTURES: 1/2" x 2'-0" x 15 MIL SHEET MAGNET
ITEM SPECIAL, STRUCTURES: 1'-6" x 6" x 15 MIL SHEET MAGNET**

GENERAL:
THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING MAGNETS OVER THE EXISTING STEEL PIER CAP COPE HOLES. THE MAGNETS SHALL BE PLACED CENTERED OVER THE COPE HOLES, PER THE DETAILS IN THE PLAN. THE ENGINEER SHALL HAVE AN OPPORTUNITY TO CHECK THE MAGNETS AFTER INSTALLATION TO ENSURE NO MOVEMENT WILL OCCUR WHEN ANIMALS TRY TO ENTER/RETURN TO THE PIER CAP.

THE DIMENSIONS LISTED IN THE ITEM DESCRIPTION ARE NOMINAL AND SHALL BE CONSIDERED AS THE MINIMUM SIZES REQUIRED FOR THESE ITEMS. ANY FIELD ADJUSTMENTS TO THE MAGNET DIMENSIONS THAT ARE REQUIRED TO ENSURE A TIGHT FIT AROUND EXISTING PLATES AND/OR BOLTS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM OF WORK.

MATERIALS:
THE SHEET MAGNETS SHALL HAVE A MINIMUM MAGNETIC PULL OF 60 LBS PER SQ. FT. THE CONTRACTOR SHALL SUPPLY 3 HARD COPIES OF THE MATERIAL SAFETY DATA SHEETS.

METHOD OF MEASUREMENT:
THE DEPARTMENT WILL MEASURE THIS ITEM OF WORK PER EACH MAGNET FURNISHED AND PLACED INSIDE/ON THE PIER CAP.

BASIS OF PAYMENT:
THE DEPARTMENT WILL PAY FOR ACCEPTED MAGNETS PLACED AND CHECKED AT THE CONTRACT PRICE BID PER EACH. PAYMENT SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM SPECIAL, STRUCTURES: ALUMINUM PERFORATED SHEET

GENERAL:
THE CONTRACTOR SHALL PROVIDE AND INSTALL AN ALUMINUM PERFORATED SHEET OVER EACH STEEL PIER CAP INSPECTION ACCESS OPENING. PROVIDE THE MATERIAL LISTED BELOW OR AN APPROVED EQUAL.

MATERIALS:
THE ALUMINUM SHEETS SHALL BE MADE FROM ALLOY 3003-H14 AND HAVE THE FOLLOWING DIMENSIONS:
WIDTH: 33" (MIN.) TO 36" (MAX.)
LENGTH: 33" (MIN.) TO 36" (MAX.)
THICKNESS: 14 GAUGE (MIN.)
HOLE PATTERN: 1/2" DIA. HOLES x 1/16" STAGGER

METHOD OF MEASUREMENT:
THE DEPARTMENT WILL MEASURE THIS ITEM OF WORK PER EACH PERFORATED ALUMINUM SHEET MAGNET FURNISHED AND PLACED.

BASIS OF PAYMENT:
THE DEPARTMENT WILL PAY FOR ACCEPTED SHEETS INSTALLED AT THE CONTRACT PRICE BID PER EACH. PAYMENT SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ITEM 513, STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN

PROVIDE AND INSTALL THE STEEL BARS PER THE DETAILS IN THE PLAN. THE BARS SHALL BE SHOP PRIMED AND PAINTED UTILIZING THE I.Z.E.U PAINTING SYSTEM, PER CMS 514. THE URETHANE TOP COAT SHALL BE FEDERAL STANDARD GREEN (FS-595C, 14277).

PROVIDE THE FOLLOWING ZINC PLATED BOLTS, WASHERS AND WING NUTS FOR USE AS MOUNTING HARDWARE, OR APPROVED EQUAL.

- 8 - BOLTS 3/8" DIAMETER x 6" LONG (MIN.), GRADE 2 (MINIMUM)
- 24 - WASHERS (3 PER BOLT)
- 16 - LOCK WASHERS (2 PER BOLT)
- 8 - HEX NUTS
- 8 - WING NUTS

METHOD OF MEASUREMENT:
THE DEPARTMENT WILL MEASURE THIS ITEM OF WORK PER POUND OF STEEL INCLUDED IN THE STEEL BAR. NO DEDUCTION WILL BE MADE FOR THE HOLES. THE COST OF THE BOLTS, WASHERS, LOCK WASHERS, HEX NUTS AND WING NUTS WILL BE CONSIDERED INCIDENTAL TO THE COST OF THIS ITEM. THE SHOP PAINTING WILL BE PAID FOR SEPERATELY UNDER ITEM 514.

BASIS OF PAYMENT:
THE DEPARTMENT WILL PAY FOR THE ABOVE WORK AND MATERIALS INSTALLED AND ACCEPTED, AT THE CONTRACT PRICE BID PER POUND. PAYMENT SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

ABBREVIATIONS

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED THROUGHOUT THE PLANS:

- ABUT. - ABUTMENT
- B OR BOT. - BOTTOM
- BRG. - BEARING
- CLR. - CLEARANCE
- EX. - EXISTING
- EXP. - EXPANSION
- F.A. - FORWARD ABUTMENT
- FWD. - FORWARD
- MIN. - MINIMUM
- MAX. - MAXIMUM
- PR. - PROPOSED
- R.A. - REAR ABUTMENT
- REF. - REFERENCE
- SPA. - SPACE(D) OR SPACING
- STA. - STATION
- STD. DWG. OR SCD - STANDARD CONSTRUCTION DRAWING
- T - TOP
- TYP. - TYPICAL

DESIGN AGENCY
O.D.O.T. DISTRICT 11
PLANNING AND ENGINEERING

REVIEWED DATE
DUL 02/19/21
STRUCTURE FILE NUMBER
4100603

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RPT REVISED
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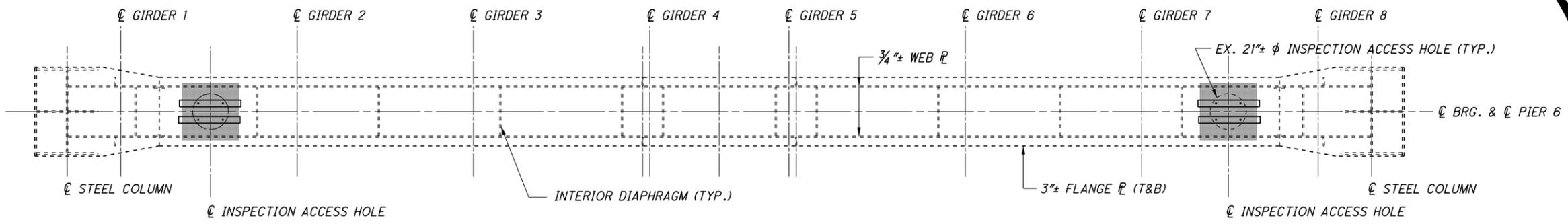
GENERAL NOTES
BRIDGE NO. JEF-7-1293
OVER TR-167A, CROSS CREEK, NS RAILWAY & CLIFTON ST

JEF-7-12.93
PID No. 111601

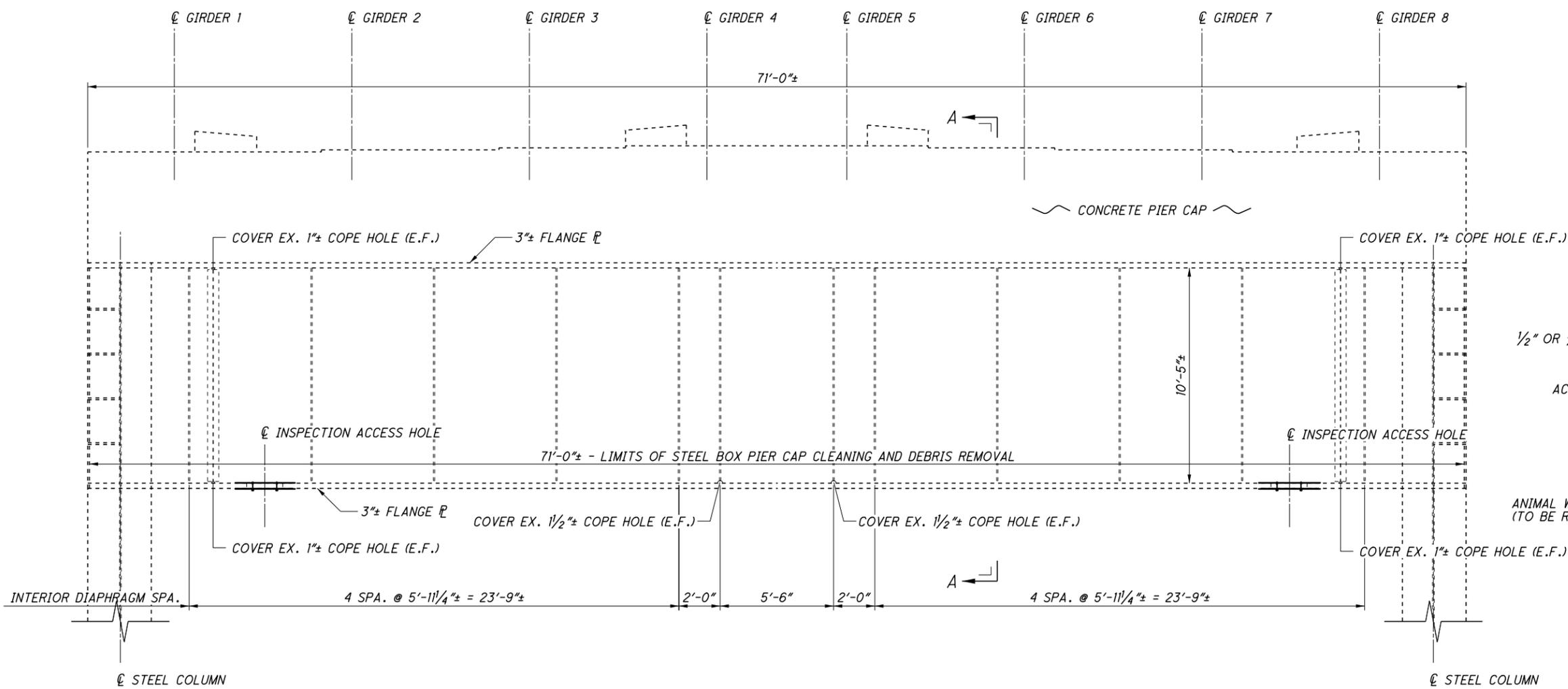
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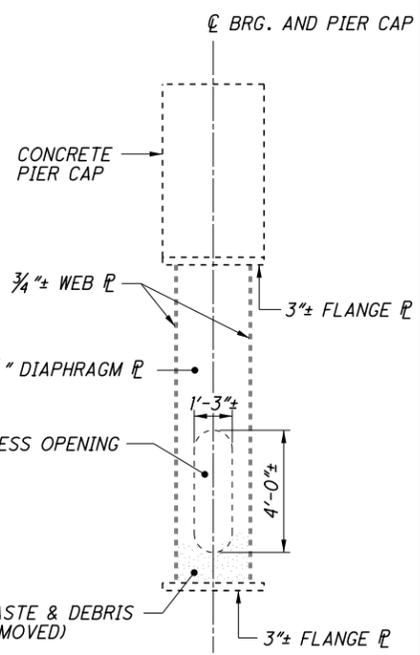
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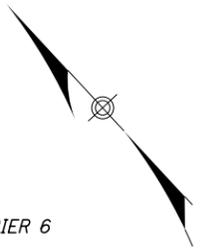
PLAN VIEW



ELEVATION VIEW



SECTION A-A



DESIGN AGENCY
O.D.O.T. DISTRICT 11
PLANNING AND ENGINEERING

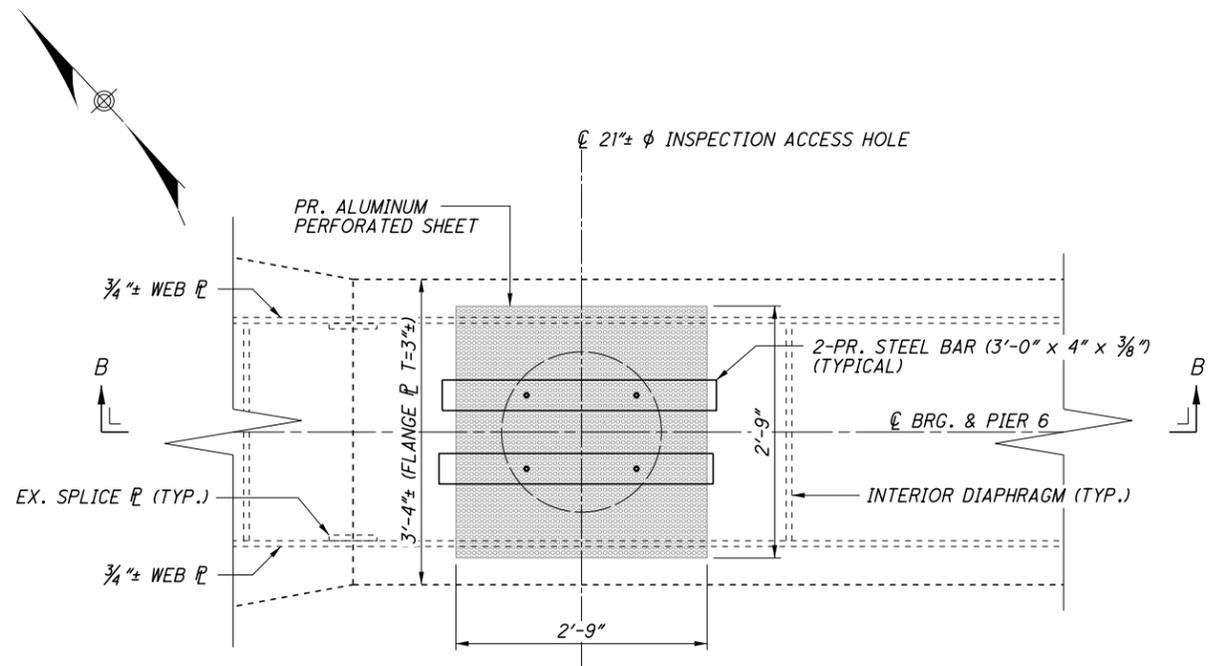
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REVIEWED	DJL	STRUCTURE FILE NUMBER	4100603
DATE	02/19/21		

PIER 6 CLEANING DETAILS
BRIDGE NO. JEF-7-1293
OVER TR-167A, CROSS CREEK, NS RAILWAY & CLIFTON ST

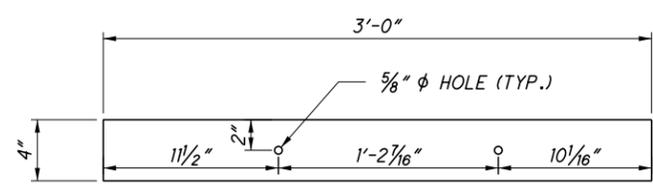
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PID No. 111601

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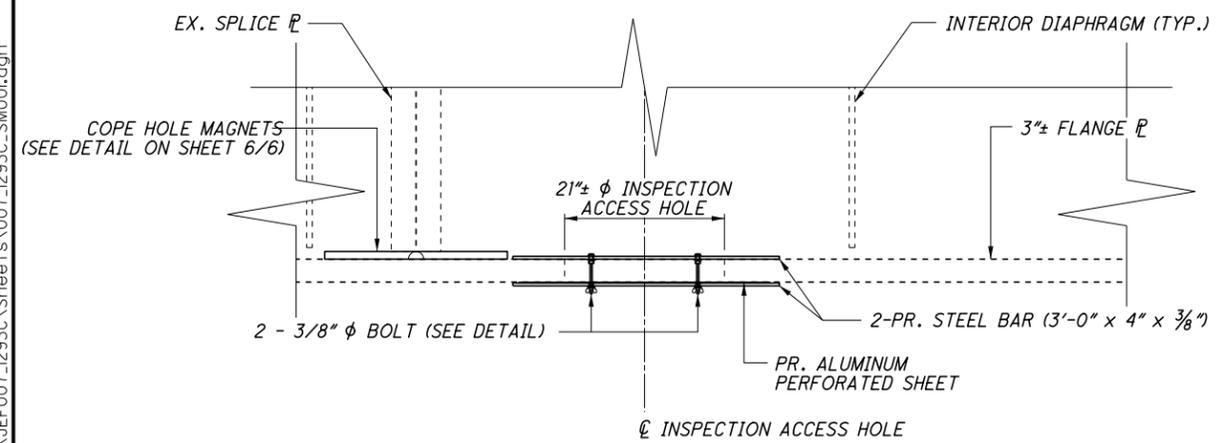
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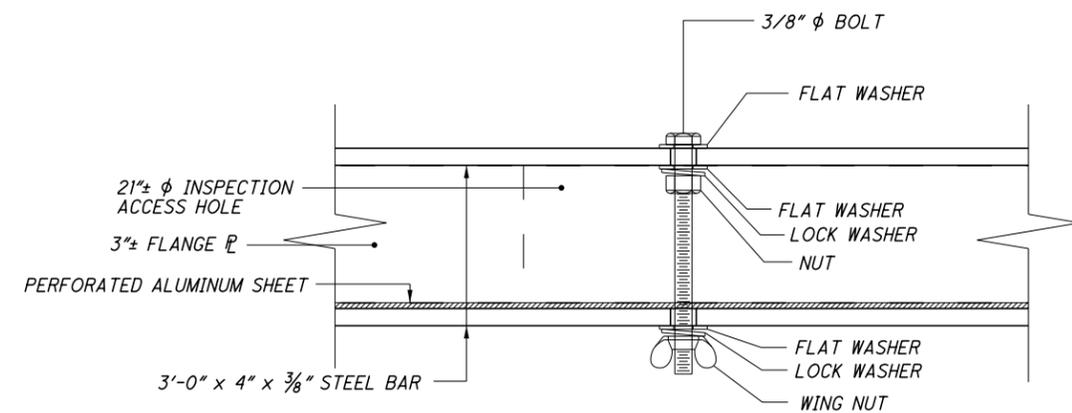
PLAN VIEW



3/8" THICK STEEL BAR DETAIL (PLAN VIEW)



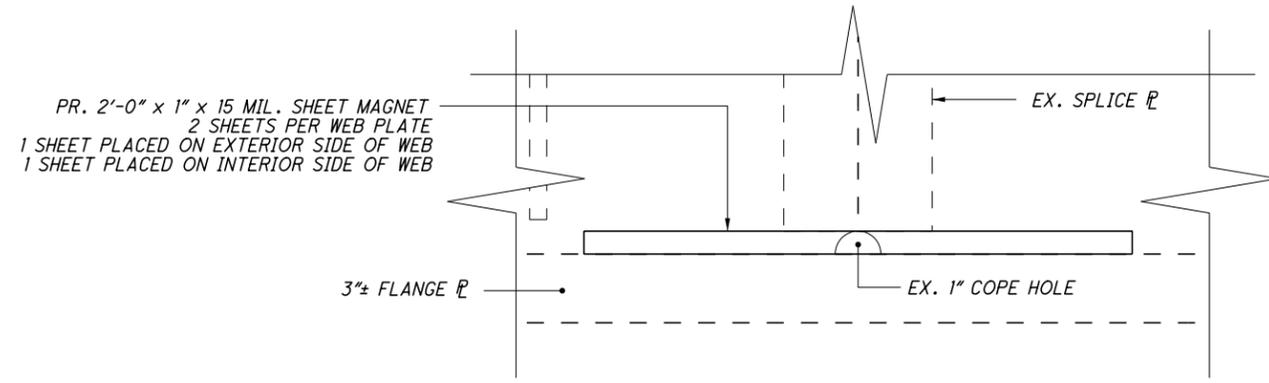
SECTION B-B



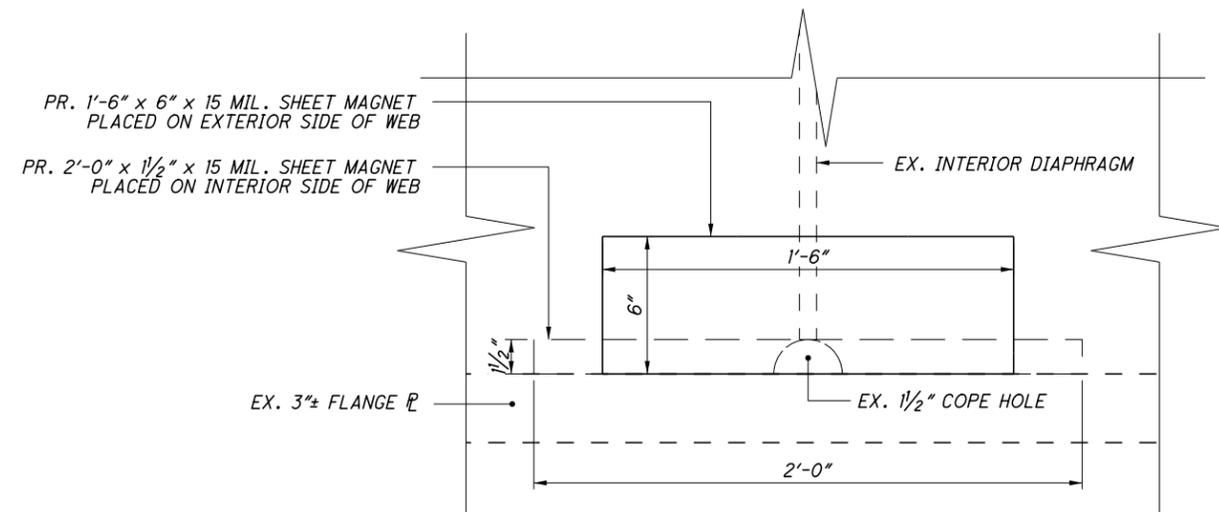
3/8" φ BOLT DETAIL (ELEVATION VIEW)

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DESIGNED		DRAWN		REVIEWED		DATE		DESIGN AGENCY	
RPT		RPT		DUL		02/19/21		O.D.O.T. DISTRICT 11	
CHECKED		REVISED		STRUCTURE FILE NUMBER		4100603		PLANNING AND ENGINEERING	
CCW		-		-		-		-	
STEEL BOX PIER CAP ACCESS HOLE COVER DETAILS									
BRIDGE NO. JEF-7-1293									
OVER TR-167A, CROSS CREEK, NS RAILWAY & CLIFTON ST									
JEF-7-12.93									
PID No. 111601									
5/6									
8/9									



1" COPE HOLE DETAIL (ELEVATION VIEW)
 BOTTOM FLANGE SHOWN (TOP FLANGE SIMILAR)



1/2" COPE HOLE DETAIL (ELEVATION VIEW)
 BOTTOM FLANGE ONLY



JEF-7-12.93
 PID No. 111601

COPE HOLE MAGNET DETAILS
 BRIDGE NO. JEF-7-1293
 OVER TR-167A, CROSS CREEK, NS RAILWAY & CLIFTON ST

DESIGNED	DRAWN	REVIEWED	DATE	DESIGN AGENCY
RPT	RPT	DJL	02/19/21	O.D.O.T. DISTRICT 11
CW	-	STRUCTURE FILE NUMBER	4100603	PLANNING AND ENGINEERING