



January 17, 2020

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17105-3265

Re: PUC No. A-2019-3011540

Dear Secretary Chiavetta:

In accordance with ordering paragraph number 2 of the PUC Secretarial Letter at Docket No. A-2019-3011540 dated September 30, 2019, please find attached for your approval one hard copy of the signed title sheet and a CD containing a copy of the final signed Structure Plans for State Route 0366, Section A06 in Allegheny County, consisting of sheets 1 through 39 of 39.

The Department of Transportation hereby avers that a set of the aforesaid final Structure Plans (S-38580) are being sent to the parties of record in accordance with the attached Certificate of Service.

We respectfully request the approval of these plans. Should you have any questions or concerns, please feel free to contact Gregory J. Vaughn at (717) 772 - 3079.

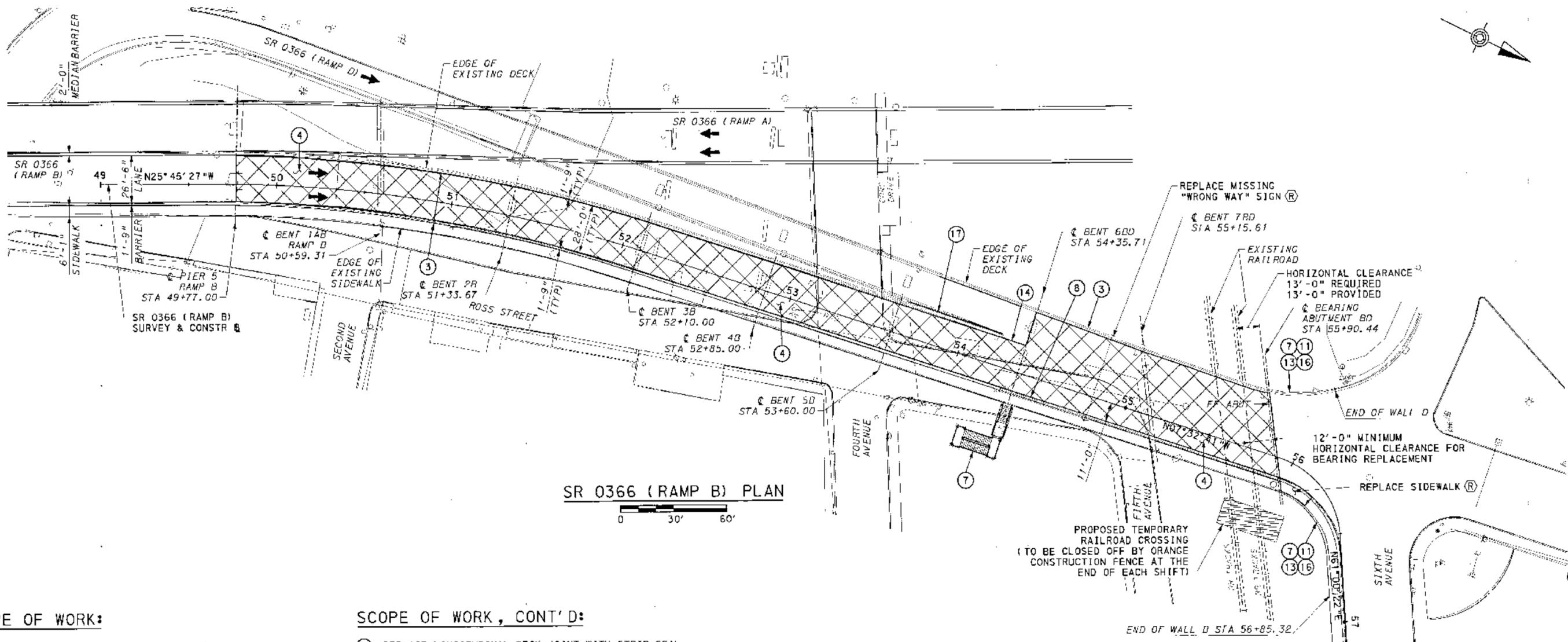
Sincerely,

A handwritten signature in black ink, appearing to read "Gregory J. Vaughn", written in a cursive style.

Gregory J. Vaughn
Grade Crossing Engineer
Utilities and Right-of-Way Section
Department of Transportation

Attachments

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



SR 0366 (RAMP B) PLAN

SCOPE OF WORK:

- ① ZONE MAINTENANCE PAINTING OF STRUCTURAL STEEL OR SPOT MAINTENANCE PAINTING
- ② REMOVE ABANDONED CONNECTION ANGLE BRACKETS
- ③ REPAIR DETERIORATED CONCRETE, BARRIERS
- ④ SCARIFICATION OF EXISTING DECK, HYDRODEMOLITION, PLACEMENT OF 1.25" LATEX MODIFIED CONCRETE OVERLAY TO DECK, TEXTURIZE SURFACE WITH LONGITUDINAL SAWED GROOVES, AND CRACK SEALER AS DIRECTED
- ⑤ ZONE MAINTENANCE PAINTING OF TOP FLANGES
- ⑥ CLEAN/INSPECT UNDERGROUND DRAINAGE SYSTEM AS DIRECTED
- ⑦ REPAIR DETERIORATED CONCRETE, SUBSTRUCTURES
- ⑧ CLEAN AND FLUSH SHOULDER AREAS AND SCUPPERS
- ⑨ REPLACE BEARINGS
- ⑩ REPLACE COMPRESSION SEAL WITH STRIP SEAL EXPANSION DAM (3" MOVEMENT CLASSIFICATION)
- ⑪ APPLY PROTECTIVE COATING TO REINFORCED CONCRETE SUBSTRUCTURE SURFACES (PENETRATING SEALER)
- ⑫ APPLY PROTECTIVE COATING TO REINFORCED CONCRETE SURFACES (EPOXY RESIN)
- ⑬ REPLACE JOINT MATERIAL AT WINGWALLS

SCOPE OF WORK, CONT'D:

- ⑭ REPLACE LONGITUDINAL DECK JOINT WITH STRIP SEAL EXPANSION DAM (3" MOVEMENT CLASSIFICATION)
- ⑮ REPAIR/REPLACE DOWNSPOUTING
- ⑯ EPOXY INJECTION CRACK SEAL
- ⑰ REPLACE LONGITUDINAL JOINT SEAL AT BARRIER
- ⑱ APPLY PROTECTIVE COATING TO REINFORCED CONCRETE BARRIERS AND SIDEWALK
- ⑲ UNDERDECK PROTECTIVE SHIELDING AT EXPANSION DAM REPLACEMENT LOCATIONS
- ⑳ FLANGE LAP REPAIR
- ㉑ RECONSTRUCT BEARING PEDESTALS

REFERENCES:

- 1. GENERAL ELEVATION & INDEX OF DRAWINGS 2
- 2. TYP SECTION & LOAD RATINGS 3
- 3. GENERAL NOTES 4
- 4. SUMMARY OF QUANTITIES 5-6

SHEET:

LEGEND:

- ⑰ SCOPE OF WORK ITEM
- ⊗ LMC OVERLAY
- ➔ INDICATES TRAFFIC DIRECTION
- Ⓡ ROADWAY ITEM
- FF DENOTES FRONT FACE

| Mark | Description | By | Chk'd. | Recom'd. | Date |
|-----------|-------------|----|--------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
 PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 GENERAL PLAN

RECOMMENDED **JANUARY 8, 2020**
David J. Ruggi
 DISTRICT BRIDGE ENGINEER

SHEET 1 OF 39
 + SUPPLEMENTAL DRAWINGS
 S - 38580

| DESCRIPTION | DWG NO | RECM'D DATE |
|---|---------|-------------|
| ANCHOR SYSTEMS | BC-734W | 1/31/2019 |
| WALL CONSTRUCTION AND EXPANSION JOINT DETAILS | BC-735M | 9/30/2016 |
| REINFORCEMENT BAR FABRICATION DETAILS | BC-736M | 1/31/2019 |
| BRIDGE DRAINAGE | BC-751M | 1/31/2019 |
| CONCRETE DECK SLAB DETAILS | BC-752M | 9/30/2016 |
| BEARINGS | BC-755M | 1/31/2019 |
| NEOPRENE STRIP SEAL DAM FOR PRESTRESSED CONCRETE & STEEL I-BEAM BRIDGES | BC-767M | 1/31/2019 |
| REINFORCED CONCRETE REPAIR | BC-783M | 1/31/2019 |
| TYPICAL WATERPROOFING AND EXPANSION DETAILS | BC-788M | 1/31/2019 |

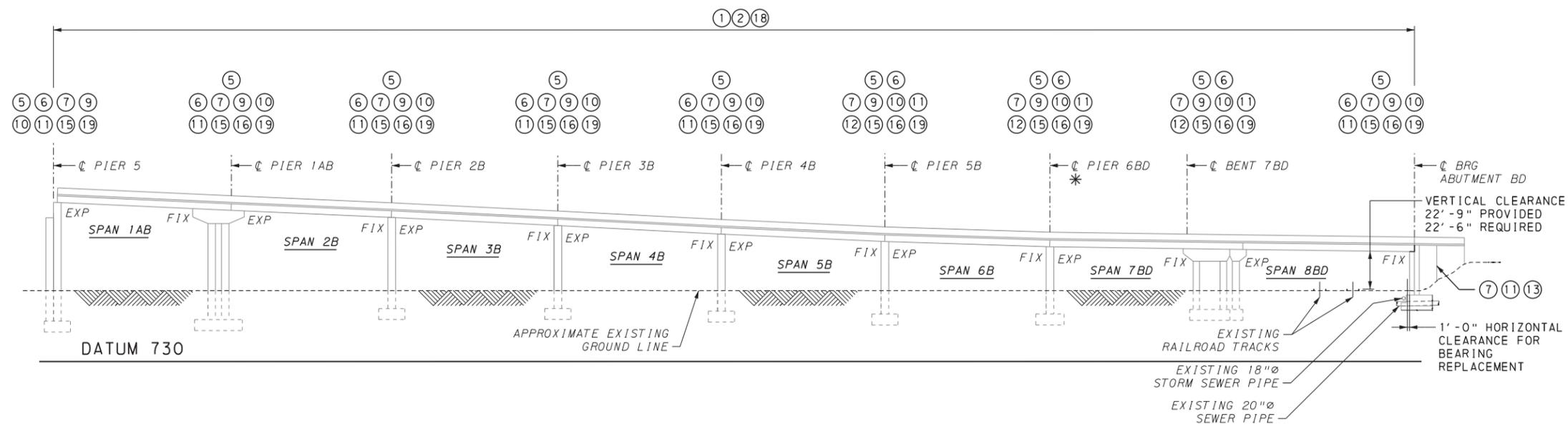
PREPARED BY:

Michael Baker International
 AIRSIDE BUSINESS PARK
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 PHONE: (412) 269-6300

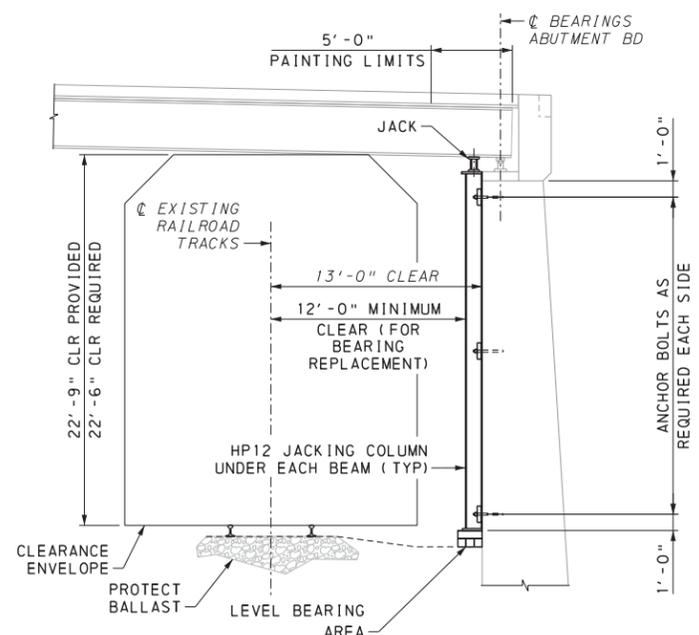
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| INDEX OF DRAWINGS | |
|-------------------|---------------------------------------|
| SHEET NO | SHEET TITLE |
| 1 | GENERAL PLAN |
| 2 | GENERAL ELEVATION & INDEX OF DRAWINGS |
| 3 | TYP SECTION & LOAD RATINGS |
| 4 | GENERAL NOTES |
| 5 | SUMMARY OF ESTIMATED QUANTITIES -1 |
| 6 | SUMMARY OF ESTIMATED QUANTITIES -2 |
| 7 | PIER 5 REPAIRS |
| 8 | BENT 1AB REPAIRS |
| 9 | BENT 2B REPAIRS |
| 10 | BENT 3B REPAIRS |
| 11 | BENT 4B REPAIRS |
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| 14 | STAIRWAY AT BENT 6BD REPAIRS |
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| 16 | ABUTMENT BD REPAIRS |
| 17 | CONCRETE REPAIR DETAILS |
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| 25 | TYP EXP DAM REPLACEMENT -2 |
| 26 | BENT 6BD EXP DAM REPLACEMENT -1 |
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| 28 | BENT 7BD EXP DAM REPLACEMENT -1 |
| 29 | BENT 7BD EXP DAM REPLACEMENT -2 |
| 30 | ABUTMENT BD EXP DAM REPLACEMENT -1 |
| 31 | ABUTMENT BD EXP DAM REPLACEMENT -2 |
| 32 | ABUTMENT BD EXP DAM REPLACEMENT -3 |
| 33 | MISCELLANEOUS REPAIRS |
| 34 | BEARING DETAILS -1 |
| 35 | BEARING DETAILS -2 |
| 36 | BEARING PEDESTALS |
| 37 | BEARING TABLES |
| 38 | BEARING DETAILS @ BENT 6BD -1 |
| 39 | BEARING DETAILS @ BENT 6BD -2 |



SR 0366 (RAMP B) ELEVATION



CONCEPTUAL JACKING SCHEME AT ABUTMENT BD



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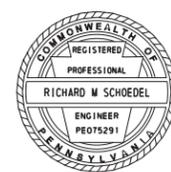
- ② SCOPE OF WORK ITEM
- * STAIRWAY AT BENT 6BD NOT SHOWN FOR CLARITY

REFERENCES:

1. GENERAL PLAN
2. SCOPE OF WORK ITEMS
3. TYP SECTION & LOAD RATINGS
4. GENERAL NOTES
5. SUMMARY OF ESTIMATED QUANTITIES

SHEET:

- 1
- 1
- 2
- 4
- 5-6



| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

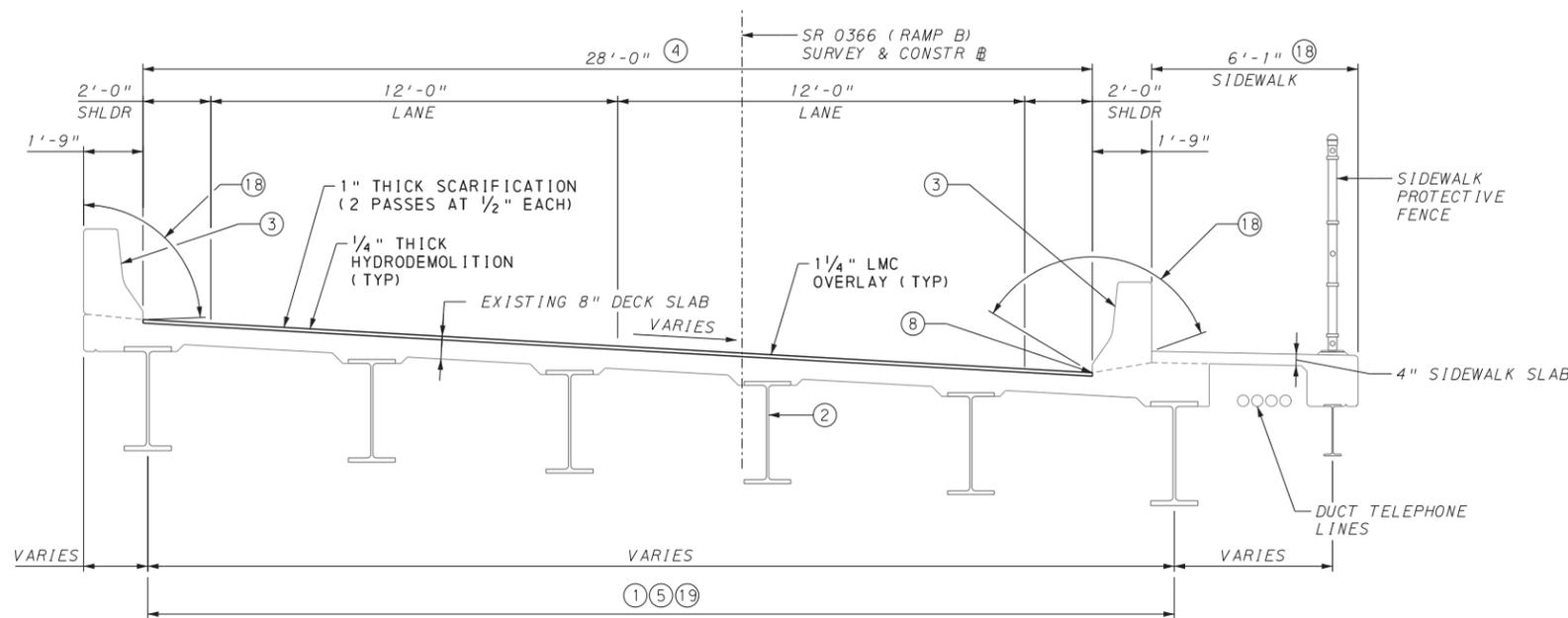
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COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
GENERAL ELEVATION & INDEX OF DRAWINGS

RECOMMENDED _____ SHEET 2 OF 39

S - 38580

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TYPICAL SECTION - RAMP B
 (SPAN 5B SHOWN)
 (LOOKING AHEAD STATIONS)
 0 1' 2' 3' 4'

LEGEND:

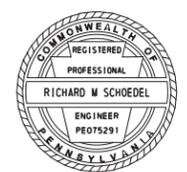
- ① SCOPE OF WORK ITEM
- LMC LATEX MODIFIED CONCRETE

REFERENCES:

- 1. GENERAL PLAN
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SHEET:

- 1
- 2
- 4
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| RAMP B LOAD RATINGS | | | | | | |
|------------------------------|---------------------|--------------------------------|--------|--------|--------|--------|
| SPAN 7BD - INTERIOR BEAM G17 | | WITHOUT FUTURE WEARING SURFACE | | | | |
| | | H20 | HS20 | ML-80 | TK527 | P-82 |
| INVENTORY RATING (IR) | DISTRIBUTION FACTOR | 0.573 | 0.573 | 0.573 | 0.573 | - |
| | LOCATION (FT) | 40.89 | 40.89 | 40.89 | 40.89 | - |
| | RATING (TONS) | 34.6 | 47.1 | 41.9 | 46.1 | - |
| | RATING FACTOR | 1.73 M | 1.31 M | 1.14 M | 1.15 M | - |
| OPERATING RATING (OR) | DISTRIBUTION FACTOR | 0.573 | 0.573 | 0.573 | 0.573 | 0.573 |
| | LOCATION (FT) | 40.89 | 40.89 | 40.89 | 40.89 | 40.89 |
| | RATING (TONS) | 57.6 | 78.5 | 69.8 | 76.8 | 110.2 |
| | RATING FACTOR | 2.88 M | 2.18 M | 1.91 M | 1.92 M | 1.08 M |

| RAMP B LOAD RATINGS | | | | | | |
|------------------------------|---------------------|-----------------------------|--------|--------|--------|--------|
| SPAN 7BD - INTERIOR BEAM G17 | | WITH FUTURE WEARING SURFACE | | | | |
| | | H20 | HS20 | ML-80 | TK527 | P-82 |
| INVENTORY RATING (IR) | DISTRIBUTION FACTOR | 0.573 | 0.573 | 0.573 | 0.573 | - |
| | LOCATION (FT) | 40.89 | 40.89 | 40.89 | 40.89 | - |
| | RATING (TONS) | 31.8 | 43.3 | 38.5 | 42.4 | - |
| | RATING FACTOR | 1.59 M | 1.20 M | 1.05 M | 1.06 M | - |
| OPERATING RATING (OR) | DISTRIBUTION FACTOR | 0.573 | 0.573 | 0.573 | 0.573 | 0.573 |
| | LOCATION (FT) | 40.89 | 40.89 | 40.89 | 40.89 | 40.89 |
| | RATING (TONS) | 53.0 | 72.2 | 64.2 | 70.6 | 101.4 |
| | RATING FACTOR | 2.65 M | 2.01 M | 1.75 M | 1.76 M | 0.99 M |

NOTES:
 RATINGS BASED ON LOAD FACTOR DESIGN METHOD OF ANALYSIS
 INCLUDES FUTURE WEARING SURFACE OF 30 PSF WHERE APPLICABLE
 SPAN LENGTH = 81.78 FT
 MAXIMUM MOMENT CAPACITY = 3,191.8 KIP FT AT 40.89 FT
 MAXIMUM SHEAR CAPACITY = 537.0 KIP AT 0.0 FT

LEGEND:
 M = MOMENT GOVERNS
 S = SHEAR GOVERNS

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
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 DEPARTMENT OF TRANSPORTATION

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 SR 0366 SECTION A06
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PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
TYP SECTION & LOAD RATINGS

GENERAL NOTES

DESIGN SPECIFICATIONS

AASHTO LOAD FACTOR BRIDGE DESIGN SPECIFICATIONS, SEVENTEENTH EDITION, 2002, AND AS SUPPLEMENTED BY PENNDOT DESIGN MANUAL, PART 4 (INCLUDING REVISIONS THROUGH 2007).

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION, 2014, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4 (INCLUDING REVISIONS THROUGH 2015).

LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON PENNDOT DESIGN MANUAL PART 4 DISTRIBUTION FACTORS.

DESIGN IS IN ACCORDANCE WITH THE STRENGTH DESIGN METHOD (LOAD FACTOR DESIGN).

NEW ELEMENTS INCLUDING BEARINGS ARE DESIGNED IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOAD

HS-20, TK527, ML-80, OR P-82 (204 KIP PERMIT LOAD) WITH THE AASHTO GROUP 1-B LOADING.

FATIGUE DESIGN IS BASED ON INFINITE FATIGUE LIFE FOR ELASTOMERIC BEARINGS.

DEAD LOADS

INCLUDES SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORMS PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.

GENERAL

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2016-7, AASHTO/AWS D1.5M/D1.5 2008 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.

PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270/M270M (ASTM A709/A709M) GRADE 50, EXCEPT WHEN NOTED OTHERWISE.

PROVIDE 2 IN. CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.

USE CLASS AAA CEMENT CONCRETE ACCELERATED AT EXPANSION DAM REPLACEMENTS.

USE CLASS AA CEMENT CONCRETE IN BARRIERS.

USE CLASS A CEMENT CONCRETE IN PEDESTALS.

A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT, IF APPROVED BY THE DISTRICT BRIDGE ENGINEER.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING BARS UNLESS SPECIFIED. GRADE 40 REINFORCING BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE PIERS, ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.

USE EPOXY-COATED REINFORCEMENT BARS FOR ALL REINFORCEMENT.

GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.

RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

CHAMFER EXPOSED CONCRETE EDGES 1 INCH BY 1 INCH, EXCEPT AS NOTED.

ALL DIMENSIONS ARE HORIZONTAL EXCEPT AS NOTED.

SUPERSTRUCTURE DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 68 °F.

PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.

PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k)9.

BRIDGE IS NOT WEIGHT RESTRICTED. SEE PUBLICATION 408 SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.

PREPARE EXISTING CONCRETE SURFACES AGAINST WHICH NEW CONCRETE WILL BE PLACED IN ACCORDANCE WITH PUBLICATION 408/2016, SECTION 1001.3(m) (INCIDENTAL TO NEW CONCRETE).

DRILL HOLES FOR ANCHOR BOLTS AND DOWELS AT THE LOCATIONS INDICATED AND TO THE REQUIRED DEPTH. PROVIDE THE ANCHOR BOLT AND DOWEL DIAMETER AS PER MANUFACTURER'S RECOMMENDATIONS AND FILL WITH EPOXY ADHESIVE. THE HOLE DEPTH MAY BE ADJUSTED PER THE MANUFACTURER'S RECOMMENDATIONS AND AS APPROVED BY THE REPRESENTATIVE.

DRILL HOLES WITH A ROTARY DRILL ONLY. DO NOT CUT THE EXISTING REINFORCEMENT BARS IDENTIFIED TO REMAIN. CLEAN AND PREPARE THE ANCHOR BOLT OR DOWEL HOLE AND PLACE THE EPOXY ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REPAIR STRUCTURE DAMAGE CAUSED BY THE ANCHOR BOLT OR DOWEL OPERATIONS AS DIRECTED BY THE REPRESENTATIVE.

EPOXY ADHESIVE MAY BE SUBSTITUTED FOR GROUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

BRIDGE REHABILITATION NOTES

DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE DEPARTMENT OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.

THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS NOT PART OF THE PLANS, PROPOSAL, OR CONTRACT AND IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED.

ORIGINAL DESIGN PLANS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF HIGHWAYS
BRIDGE UNIT
TARENTUM BRIDGE
OVER ALLEGHENY RIVER
ROAD 9801
ALLEGHENY AND WESTMORELAND COUNTIES
S-1539
(APPROVED JULY 23, 1949)

REHABILITATION PLANS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DESIGN
ALLEGHENY & WESTMORELAND COUNTIES
LR 9801 SECTION 004
OVER ALLEGHENY RIVER AND CONRAIL
DECK TRUSS BRIDGE REHABILITATION
S-15738
(APPROVED OCTOBER 15, 1985)

BIDDERS ARE REQUIRED TO FIELD-VERIFY INFORMATION PRESENTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE DATA SHOWN HEREIN IS NOT A PART OF THE PLANS, PROPOSAL, OR CONTRACT, AND IS NOT TO BE CONSIDERED AS A BASIS FOR COMPUTATION OF FOR ANY PURPOSE.

THE EXISTING BRIDGE STRUCTURAL MEMBERS CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS SUCH AS CHROMIUM BASED ON LABORATORY TESTING.

LABORATORY TESTS INDICATED THE FOLLOWING LEVELS OF TOXIC METALS:

LEAD: 486 mg/Kg
CADMIUM: NOT DETECTED
CHROMIUM: 117 mg/Kg
ARSENIC: NOT DETECTED

STRUCTURAL STEEL

VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURES IN THE FIELD, AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.

PRIOR TO FABRICATING SOLE PLATES OR BEARINGS LOCATE EXISTING REINFORCING STEEL BARS IN SUBSTRUCTURE TO ENSURE AVOIDING WHEN DRILLING HOLES FOR PEDESTAL REINFORCING STEEL OR ANCHOR BOLTS. USE A PACHOMETER TO LOCATE EXISTING REINFORCING STEEL AND MARK LOCATIONS FOR REVIEW AND APPROVAL BY THE DEPARTMENT'S REPRESENTATIVE.

PAINT STRUCTURAL STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS.

FINAL COAT TO BE FEDERAL COLOR ID NO. 15450, AZURE BLUE.

THE CONTRACTOR IS RESPONSIBLE FOR SAFE JACKING AND TEMPORARY SUPPORT OF THE BEAMS AND ALL OTHER STEEL MEMBERS DURING BEARING REPLACEMENT. PROVIDE ALL NECESSARY BRACING FOR STRUCTURAL STEEL ELEMENTS UNTIL THE ELEMENTS ARE IN A STABLE (FINAL) CONDITION. SUBMIT A BEARING REPLACEMENT PLAN TO THE REPRESENTATIVE A MINIMUM OF 21 WORKING DAYS PRIOR TO THE BEARING REPLACEMENT.

DO NOT SUPPORT THE STRUCTURE FROM THE EXISTING PIER CAPS OR COLUMNS IN AREAS WHERE A CONCRETE REPAIR ARE REQUIRED.

SOME MINOR STEEL REMOVAL BEYOND THE CENTERLINE OF BEARING OR UNBOLTING OF THE END DIAPHRAGM(S) MAY BE REQUIRED AND PERMITTED AT SELECT LOCATIONS TO INSTALL ANCHOR BOLTS AND/OR REINFORCING STEEL DOWELS WITH THE APPROVAL DEPARTMENT REPRESENTATIVE. DO NOT MODIFY THE EXISTING STEEL WITHOUT PRIOR APPROVAL.

STABILITY OF ALL STRUCTURAL MEMBERS DURING REPAIRS IS TO BE MAINTAINED BY THE CONTRACTOR DURING THE BEARING REPLACEMENT UNTIL THE NEW BEARINGS ARE PROPERLY INSTALLED. TEMPORARY SUPPORT/FALSEWORK LOADS SHALL INCLUDE THE SUPERSTRUCTURE DEAD LOAD, WIND LOADING, AND CONSTRUCTION LIVE LOAD EFFECTS AND ARE TO BE EVALUATED BY THE CONTRACTOR FOR STABILITY, STRESSES, AND DEFLECTIONS ON ALL STEEL MEMBERS DURING ANY STAGE OF ERECTION.

CALCULATIONS SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF PENNSYLVANIA. NO OVERSTRESS IN ANY MEMBER SHALL BE PRESENT FOR ANY COMBINATION OF LOADS.

BLAST CLEAN THE FAYING SURFACES OF SPLICES AND CONNECTIONS OF ALL STRUCTURAL ELEMENTS IN ACCORDANCE WITH PUBLICATION 408 SECTION 1060.3(b)3. REBLAST UNPAINTED ELEMENTS THAT REMAIN UNASSEMBLED FOR A PERIOD OF 12 MONTHS OR MORE FOLLOWING THE INITIAL CLEANING.

PRIOR TO INSTALLING NEW STEEL THAT WILL MAKE EXISTING COATINGS INACCESSIBLE, CLEAN EXISTING STEEL SURFACES THAT WILL BE IN CONTACT WITH THE NEW PRIMED STEEL AND APPLY THE PRIMER COAT IN ACCORDANCE WITH THE CONTRACT SPECIAL PROVISIONS.

WELDING NOTES

WELDING SPECIFICATIONS: AASHTO/AWS/D1.5M/D1.5-2008 BRIDGE WELDING CODE CONSISTENT WITH PUBLICATION 408 1105.03(M) AND THE CONTRACT SPECIAL PROVISIONS. DO NOT FIELD WELD ON ANY PART OF THE EXISTING BRIDGE, EXCEPT WHERE SHOWN ON THE DRAWINGS, WITHOUT PRIOR APPROVAL OF THE REPRESENTATIVE.

WELDING OF EXISTING STRUCTURAL STEEL: USE THE SHIELDED METAL ARC PROCESS AND LOW HYDROGEN ELECTRODES WHICH ARE COMPATIBLE WITH THE BASE METAL AS SPECIFIED AND IN ACCORDANCE WITH AN APPROVED WELD PROCEDURE SPECIFICATION.

MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE AND INCORPORATE IN THE FINAL WELD. NO OTHER TACK WELDING WILL BE PERMITTED.

DO NOT WELD WHEN SURFACES TO BE WELDED ARE MOIST OR EXPOSED TO RAIN, SNOW, OR WIND, OR WHEN WELDERS ARE EXPOSED TO INCLEMENT CONDITIONS THAT WILL ADVERSELY AFFECT THE QUALITY OF THE WORK.

DO NOT WELD OR BURN WHEN THE TEMPERATURE IS BELOW 0 °F. PREHEAT AND MAINTAIN THE TEMPERATURE OF THE METAL TO AT LEAST 70 °F WHEN THE TEMPERATURE OF THE METAL IS BETWEEN 0 °F AND 32 °F DURING WELDING OR BURNING.

PREHEAT THE STEEL TO THE SPECIFIED MINIMUM TEMPERATURE FOR A DISTANCE EQUAL TO THE THICKNESS OF THE PART BEING WELDED, BUT NOT LESS THAN 3 INCHES IN ALL DIRECTIONS FROM THE POINT OF WELDING.

REMOVE BY APPLICATION OF HEAT ANY MOISTURE PRESENT AT POINT OF WELD. PROVIDE WINDBREAKS FOR PROTECTION FROM DIRECT WIND.

PRIOR TO PLACING THE WELD, THOROUGHLY CLEAN ALL PORTIONS OF NEW AND EXISTING SURFACES TO RECEIVE WELDS OF ALL FOREIGN MATTER, INCLUDING PAINT FILM, FOR A DISTANCE OF 2 INCHES FROM EACH SIDE OF THE OUTSIDE LINES OF THE WELD.

TEST COMPLETED WELDS USING VISUAL AND NONDESTRUCTIVE METHODS IN ACCORDANCE WITH AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE CHAPTER 6.

UTILITY NOTES

COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.

PRIOR TO ANY EXCAVATION OR DEMOLITION WORK, CONTACT THE PA ONE CALL SYSTEM, INC. AT 1-800-242-1776 AND COMPLY WITH THE PROVISIONS OF PA ACT 287 OF 1994 AS AMENDED BY ACT 187 OF 1996. IDENTIFY ALL OVERHEAD LINES AND NOTIFY AND COMPLY WITH THE APPLICABLE UTILITY OWNER'S CLEARANCE REQUIREMENTS.

VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. PENNDOT OR FHWA DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISIONS OR LIABILITY FOR ACCURACY OF TYPE, SIZE, AND LOCATION OF ANY UTILITY.

RAILROAD NOTES

COMPLY WITH NORFOLK SOUTHERN RAILROAD SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE OPEN ACCESS ALONG NORFOLK SOUTHERN MAINTENANCE WAY THROUGHOUT CONSTRUCTION.

PROVIDE THE FOLLOWING RAILROAD CONSTRUCTION CLEARANCES:
HORIZONTAL: 13'-0" MINIMUM FROM \odot TRACKS
VERTICAL: 22'-6" MINIMUM FROM TOP OF RAIL

NO EQUIPMENT WILL BE PERMITTED TO BE STORED ON NORFOLK SOUTHERN PROPERTY WITHOUT PERMISSION FROM THE NORFOLK SOUTHERN RAILROAD ENGINEER IN ACCORDANCE WITH SECTION E.5.K.1 OF THE NORFOLK SOUTHERN SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS, AUGUST 11, 2016.

REFERENCES:

| | |
|--|-----|
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. SUMMARY OF ESTIMATED QUANTITIES | 5-6 |

SHEET:

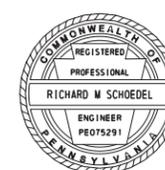
| Mark | Description | By | Chk'd. | Recm'd. | Date |
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| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
GENERAL NOTES

| | |
|-------------------|-----------------------------|
| RECOMMENDED _____ | SHEET <u>4</u> OF <u>39</u> |
| S - 38580 | |



SUMMARY OF ESTIMATED QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | PIER 5 | BENT 1AB | BENT 2B | BENT 3B | BENT 4B | BENT 5B | BENT 6BD | BENT 7BD | ABUT BD | SUPER STRUCTURE | TOTAL |
|-----------|--|-------|--------|----------|---------|---------|---------|---------|----------|----------|---------|-----------------|-------|
| 1001-0010 | CLASS A CEMENT CONCRETE | CY | 2 | 5 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | ---- | 28 |
| 1002-0052 | REINFORCEMENT BARS, EPOXY COATED | LB | 544 | 1,195 | 732 | 744 | 681 | 653 | 921 | 885 | 679 | ---- | 7,034 |
| 1003-0006 | DOWEL HOLES, 14" DEPTH | EACH | 100 | 180 | 120 | 120 | 120 | 120 | 160 | 200 | 120 | ---- | 1,240 |
| 5018-0050 | REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 1019-0020 | PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (EPOXY RESIN) | SY | ---- | ---- | ---- | ---- | ---- | 115 | 131 | 125 | ---- | ---- | 371 |
| 1019-0040 | PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, REINFORCED CONCRETE SUBSTRUCTURE SURFACES) | SY | 398 | 280 | 177 | 172 | 162 | 135 | 180 | 109 | 367 | ---- | 1,980 |
| 1019-0050 | PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE) | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 1,100 | 1,100 |
| 5041-0001 | SCARIFICATION, 1/2" DEPTH (1) | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 4,384 | 4,384 |
| 1042-0001 | LATEX MODIFIED CONCRETE WEARING SURFACE, 1 1/4" DEPTH | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2,192 | 2,192 |
| 5051-0000 | DOWNSPOUTING (1) | LF | ---- | 170 | 32 | 40 | 40 | 54 | 80 | 70 | 30 | ---- | 516 |
| 5090-0060 | REPLACE EXPANSION BEARING (1) | EACH | 12 | 6 | 6 | 6 | 6 | 6 | 10 | 10 | ---- | ---- | 62 |
| 5090-0076 | REPLACE FIXED BEARING (1) | EACH | ---- | 12 | 6 | 6 | 6 | 6 | 7 | 10 | 10 | ---- | 63 |
| 1090-0100 | JACKING BRIDGE SUPERSTRUCTURE (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 1091-0331 | EPOXY INJECTION CRACK SEAL | LF | ---- | 17 | 12 | 35 | 12 | 9 | 21 | 43 | 91 | ---- | 240 |
| 9000-0003 | REMOVE ABANDONED CONNECTION ANGLE BRACKETS (1) | EACH | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 81 | 81 |
| 9000-0004 | CLEAN AND FLUSH SHOULDER AREAS AND SCUPPERS (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0005 | FLANGE LAP REPAIR (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0007 | REPLACE LONGITUDINAL JOINT IN SPAN 6BD (1) | LF | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 53 | 53 |
| 9000-0008 | CLEANING UNDERGROUND DRAINAGE SYSTEM, AS DIRECTED (1) | DOLLA | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | DOLLA |
| 9000-0011 | UNDERDECK PROTECTIVE SHIELDING (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0012 | PROTECTION OF UTILITIES (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0015 | EXPANSION DAM REPLACEMENT, 3" MOVEMENT (1) | LF | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 474 | 474 |
| 9000-0016 | REPLACE MATERIAL AT WINGWALL EXPANSION JOINT (1) | LF | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 116 | ---- | 116 |
| 9000-0018 | LATEX MODIFIED CONCRETE WEARING SURFACE, VARIABLE DEPTH (1) | CY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 15 | 15 |
| 9000-0020 | INSTALLING HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) CRACK SEALER (1) | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2,192 | 2,192 |

ALL QUANTITIES RELATED TO LATEX MODIFIED CONCRETE OVERLAY ITEMS ARE INCLUDED UNDER SUPERSTRUCTURE

(1) SEE CONTRACT SPECIAL PROVISIONS

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

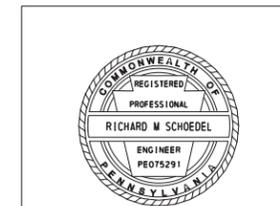
SR 0366 PREVIOUSLY KNOWN AS LR 9801
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DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
SUMMARY OF QUANTITIES - 1

RECOMMENDED _____ SHEET 5 OF 39

S - 38580



REFERENCES:

1. GENERAL PLAN
2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
3. SCOPE OF WORK
4. GENERAL ELEVATION & INDEX OF DRAWINGS
5. TYP SECTION & LOAD RATINGS
6. GENERAL NOTES
7. SUMMARY OF QUANTITIES - 2

SHEET:

- 1
- 1
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- 2

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SUMMARY OF ESTIMATED QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | PIER 5 | BENT 1AB | BENT 2B | BENT 3B | BENT 4B | BENT 5B | BENT 6BD | BENT 7BD | ABUT BD | SUPER STRUCTURE | TOTAL |
|-----------|---|-------|--------|----------|---------|---------|---------|---------|----------|----------|---------|-----------------|-------|
| 9000-0021 | CLEANING AND FLUSHING BRIDGE SEATS, S-38580 (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0024 | UNFORESEEN STRUCTURAL STEEL REPAIRS (1) | DOLLA | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | DOLLA |
| 9000-0100 | FIELD VERIFICATION OF EXISTING STEEL DIMENSIONS (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9000-0514 | TEXTURIZING CONCRETE DECK SURFACE WITH LONGITUDINAL SAWED GROOVES (1) | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2,192 | 2,192 |
| 9000-0604 | CONCRETE BRIDGE DECK SURFACE PREPARATION USING HYDRODEMOLITION (1) | SY | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 2,192 | 2,192 |
| 9000-9001 | REPAIR DETERIORATED CONCRETE (1) | CF | 3 | 35 | 29 | 157 | 70 | 263 | 49 | 56 | 16 | 35 | 713 |
| 9071-0001 | ZONE MAINTENANCE PAINTING OF EXISTING STRUCTURAL STEEL (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9071-0002 | ZONE MAINTENANCE PAINTING OF TOP FLANGES (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9071-0004 | SPOT MAINTENANCE PAINTING (1) | SF | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 190 | 190 |
| 9073-0001 | DISPOSAL OF BRIDGE WASTE (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9075-0001 | CONTAINMENT (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |
| 9077-0001 | WORKER HEALTH AND SAFETY (1) | LS | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | LS |

ALL QUANTITIES RELATED TO LATEX MODIFIED CONCRETE OVERLAY ITEMS ARE INCLUDED UNDER SUPERSTRUCTURE

(1) SEE CONTRACT SPECIAL PROVISIONS

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

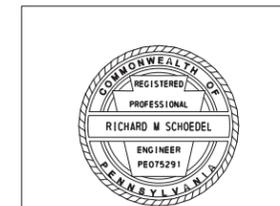
SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
 PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 SUMMARY OF QUANTITIES - 2

RECOMMENDED _____ SHEET 6 OF 39

S - 38580



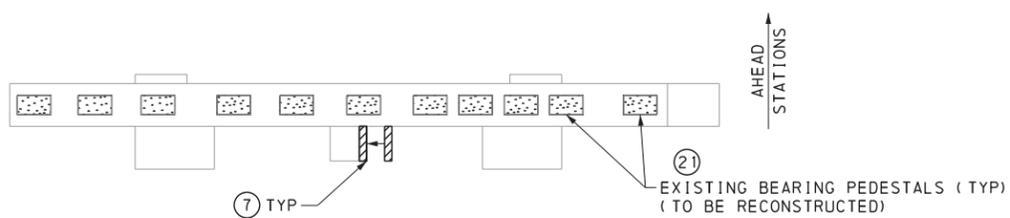
REFERENCES:

1. GENERAL PLAN
2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
3. SCOPE OF WORK
4. GENERAL ELEVATION & INDEX OF DRAWINGS
5. TYP SECTION & LOAD RATINGS
6. GENERAL NOTES
7. SUMMARY OF QUANTITIES - 1

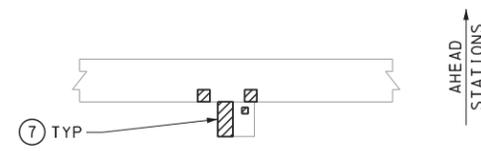
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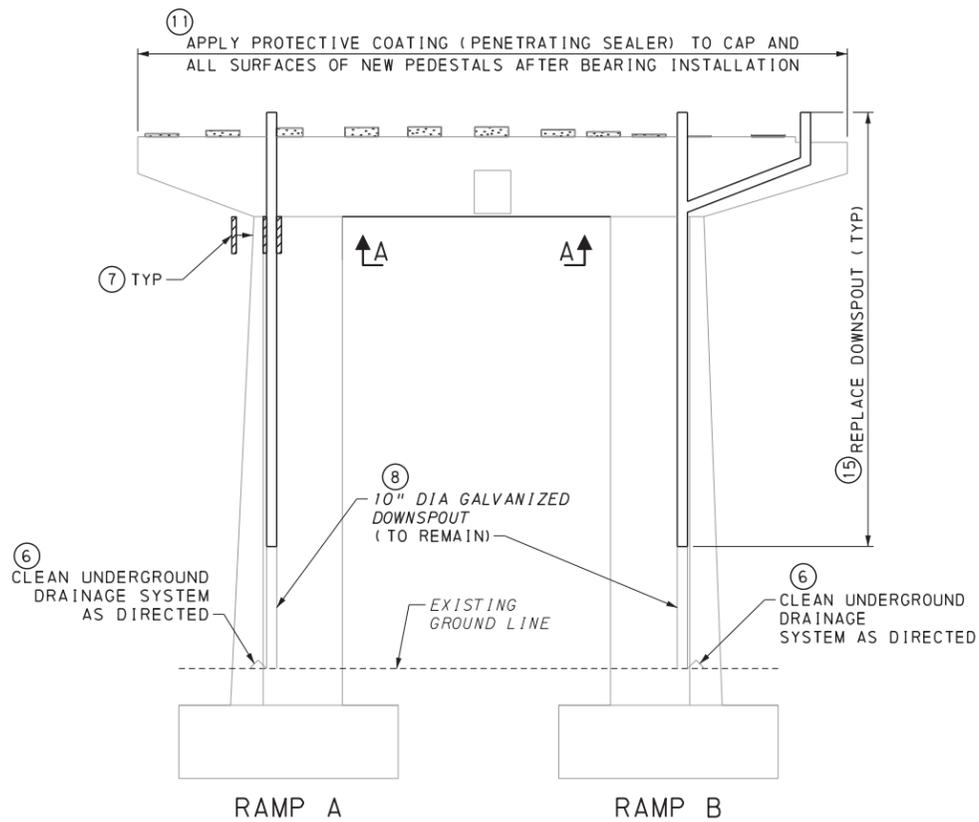
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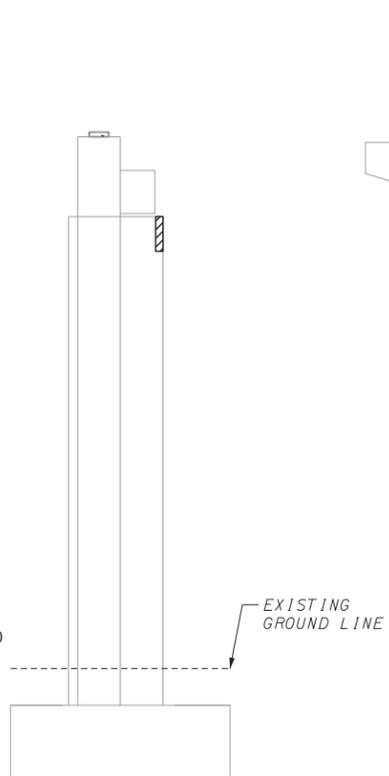
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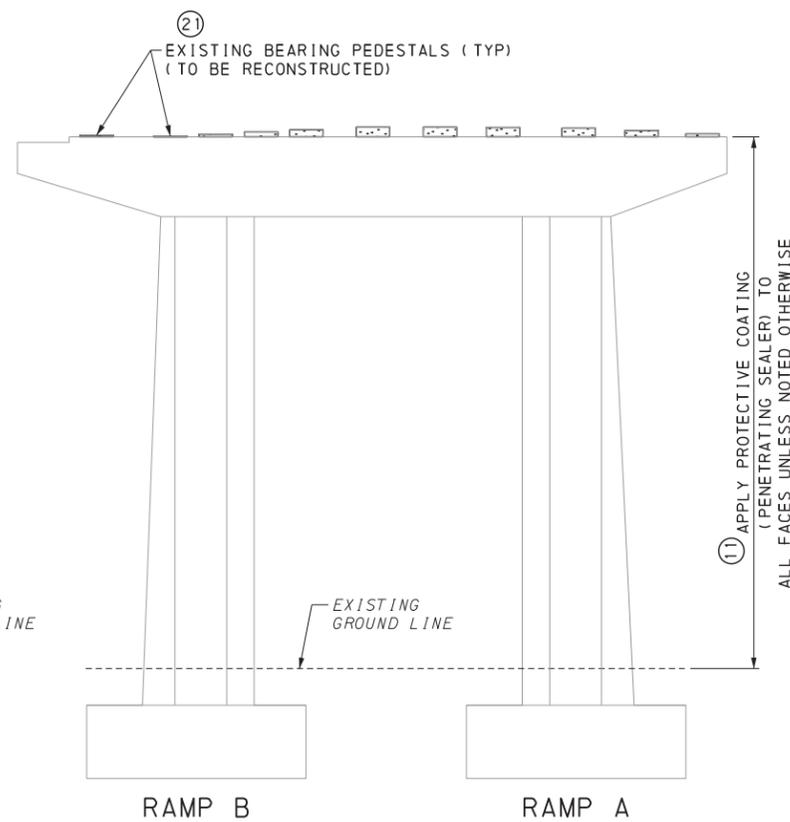
VIEW A-A
NOT TO SCALE



PIER 5 SOUTH FACE
NOT TO SCALE



PIER 5 WEST FACE
NOT TO SCALE



PIER 5 NORTH FACE
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- SCOPE OF WORK ITEM
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
PIER 5 REPAIRS**

| | |
|-------------------|-----------------------------|
| RECOMMENDED _____ | SHEET <u>7</u> OF <u>39</u> |
| S - 38580 | |

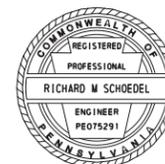
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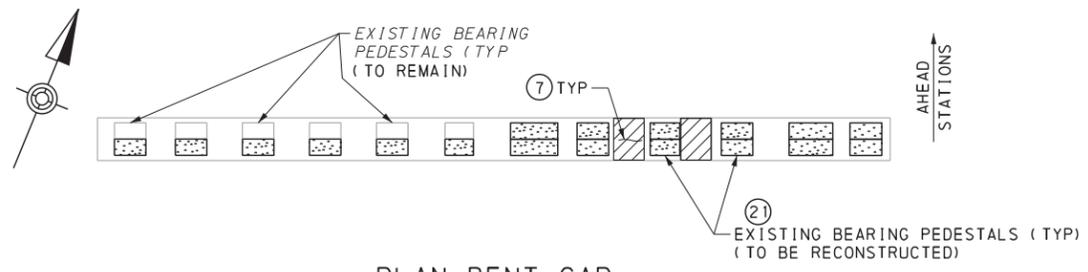
1. CONCRETE REPAIR LOCATIONS SHOWN REPRESENT APPROXIMATE SPALLED OR DELAMINATED SURFACE AREA, ACTUAL REPAIR DIMENSIONS AND LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE REPRESENTATIVE.
2. APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER) TO ALL CONCRETE SURFACES ABOVE GRADE, UNLESS NOTED OTHERWISE.
3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

REFERENCES:

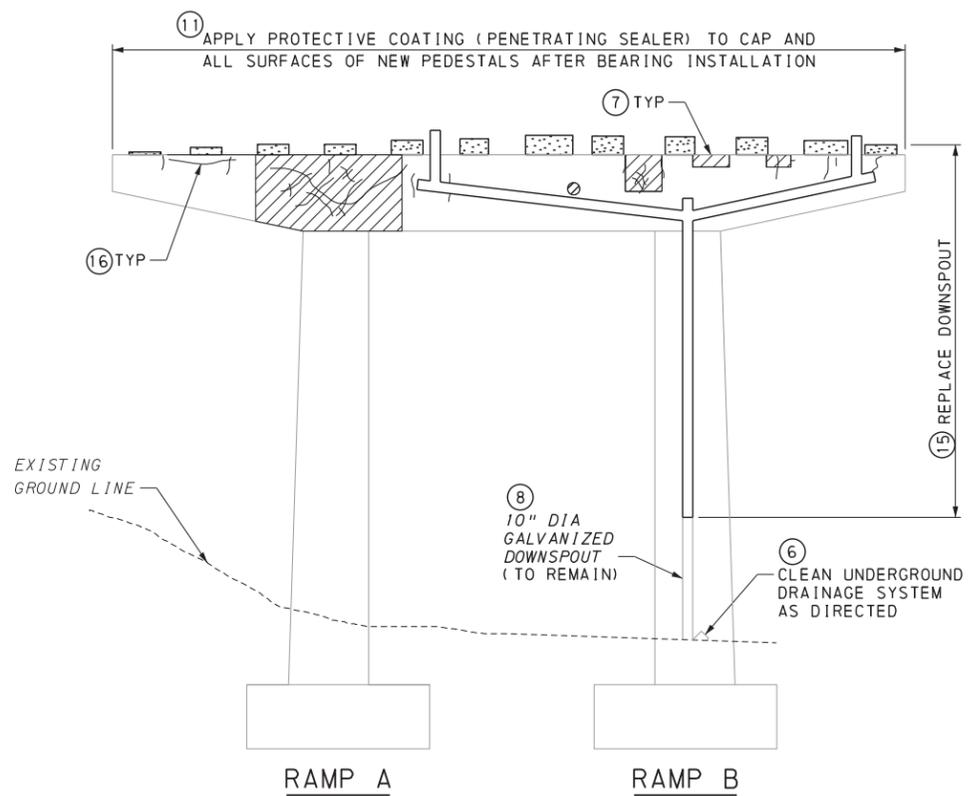
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| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |

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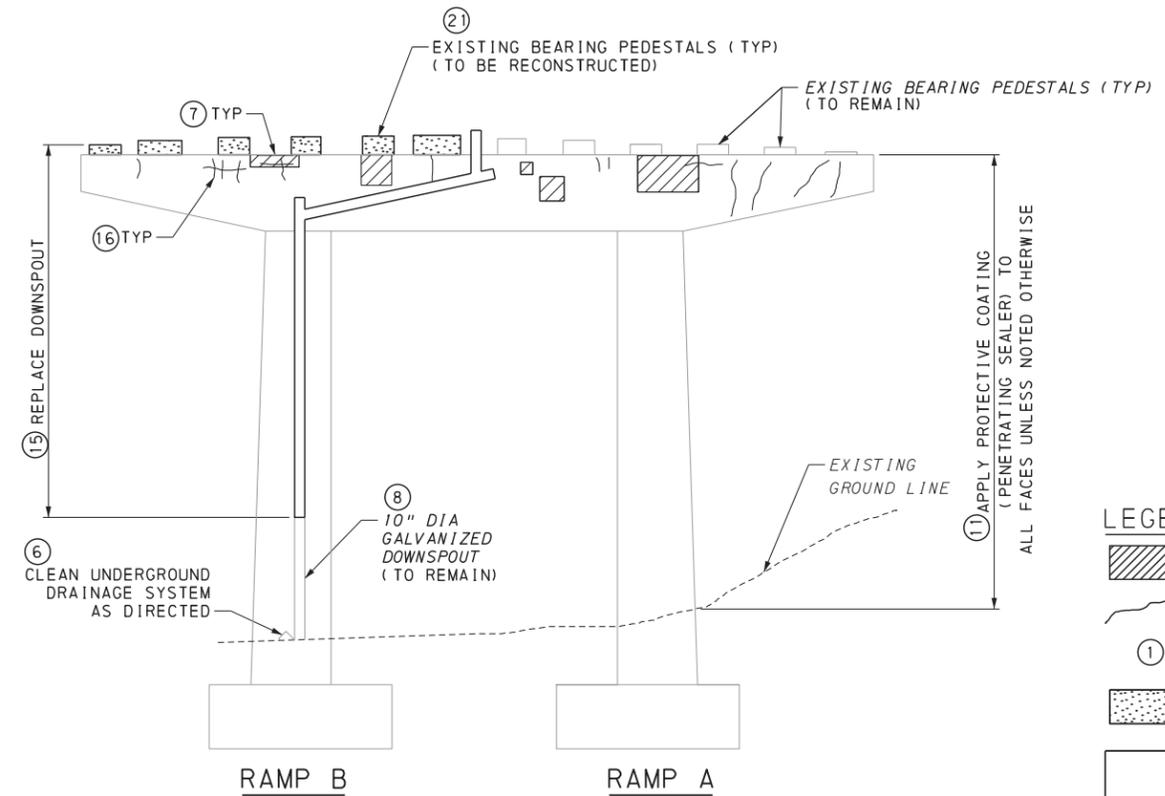




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BENT 1AB SOUTH FACE
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LEGEND:

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|--|---|
| | APPROXIMATE AREA OF CONCRETE REPAIR (7) |
| | APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16) |
| | SCOPE OF WORK ITEM |
| | REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050 |

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

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SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
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4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 1AB REPAIRS**

RECOMMENDED _____ SHEET 8 OF 39
S - 38580

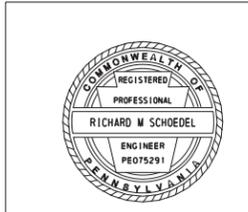
NOTES:

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- FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

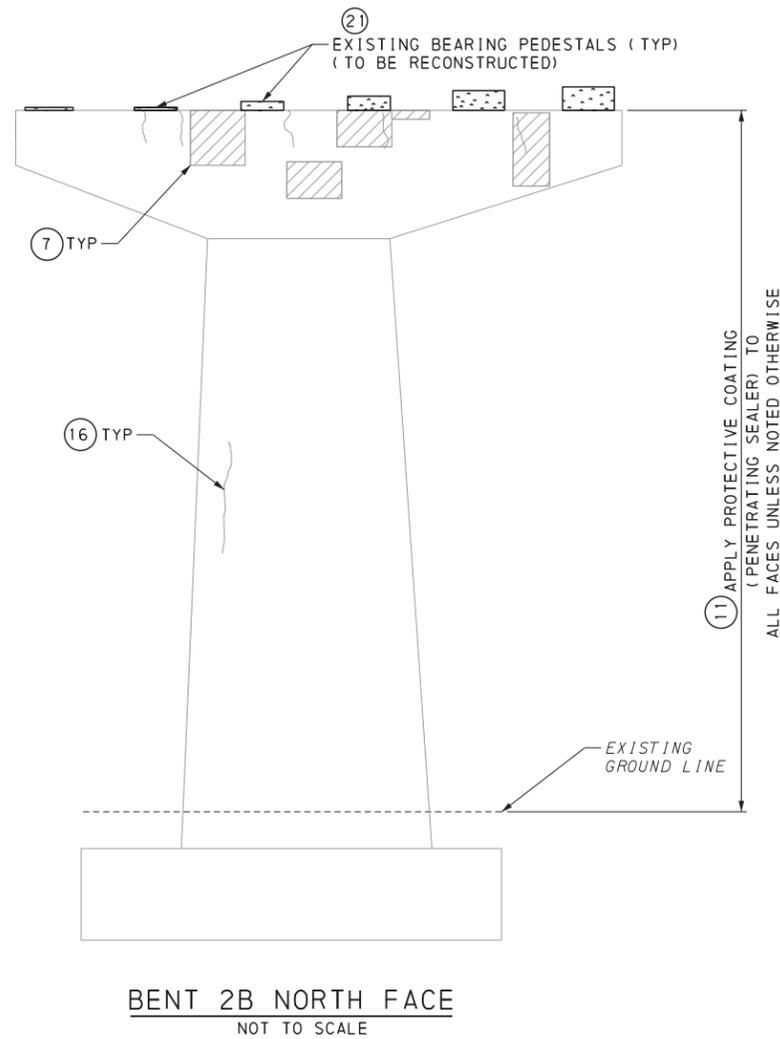
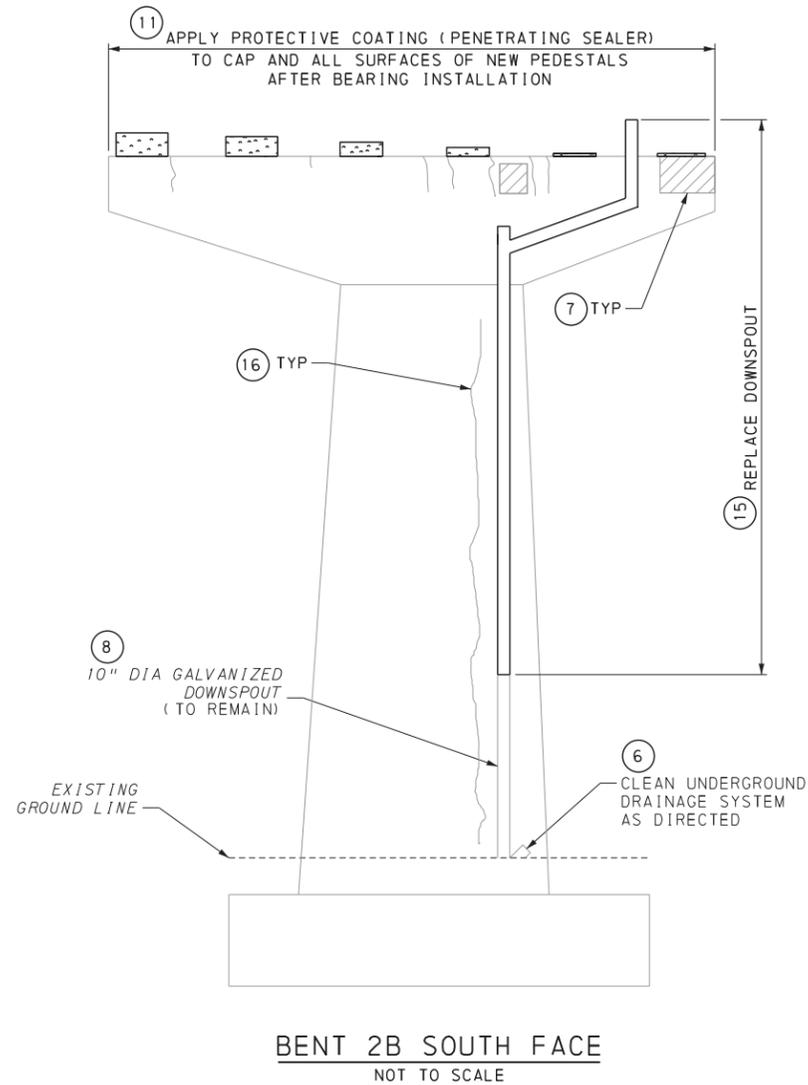
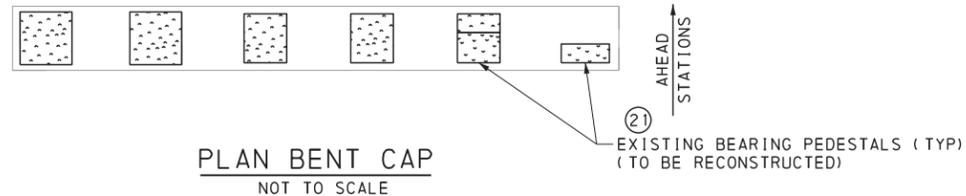
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- SCOPE OF WORK 1
- GENERAL ELEVATION & INDEX OF DRAWINGS 2
- TYP SECTION & LOAD RATINGS 3
- GENERAL NOTES 4
- CONCRETE REPAIR DETAILS 17

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LEGEND:

-  APPROXIMATE AREA OF CONCRETE REPAIR (7)
-  APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- (1) SCOPE OF WORK ITEM
-  REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

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COMMONWEALTH OF PENNSYLVANIA
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ALLEGHENY COUNTY
 SR 0366 SECTION A06
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 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 BENT 2B REPAIRS**

| | |
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| RECOMMENDED _____ | SHEET <u>9</u> OF <u>39</u> |
| S - 38580 | |

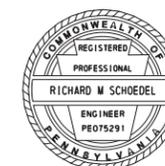
NOTES:

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3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

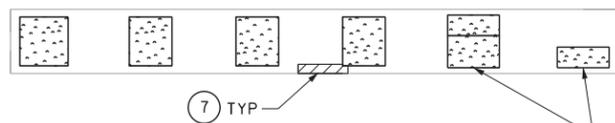
REFERENCES:

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3. SCOPE OF WORK 1
4. GENERAL ELEVATION & INDEX OF DRAWINGS 2
5. TYP SECTION & LOAD RATINGS 3
6. GENERAL NOTES 4
7. CONCRETE REPAIR DETAILS 17

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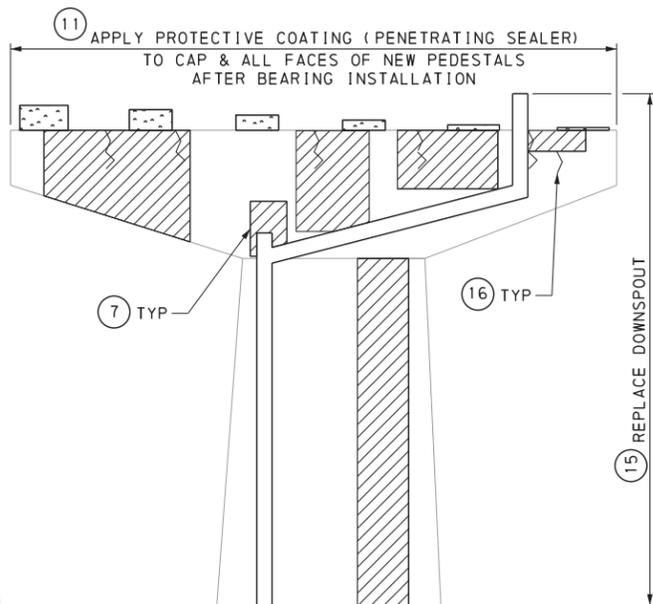


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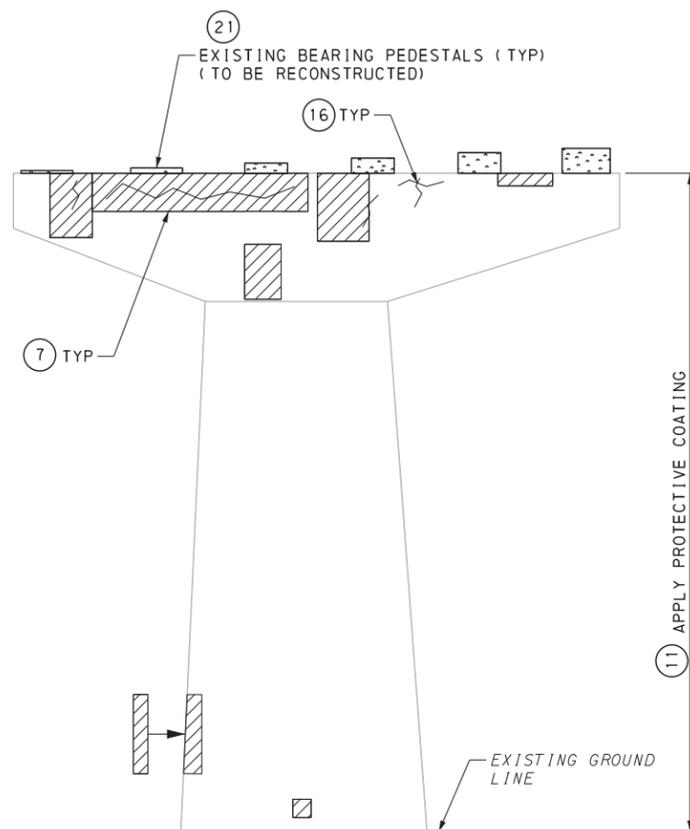
PLAN BENT CAP
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AHEAD STATIONS
 (7) TYP
 (21) EXISTING BEARING PEDESTALS (TYP)
 (TO BE RECONSTRUCTED)



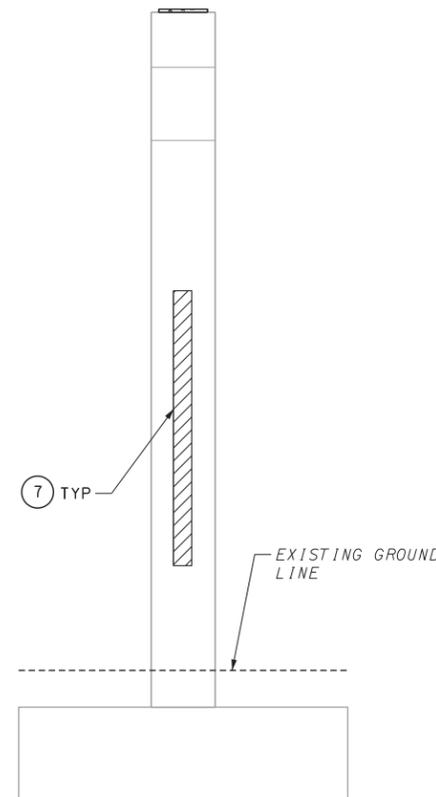
BENT 3B SOUTH FACE
NOT TO SCALE

(11) APPLY PROTECTIVE COATING (PENETRATING SEALER)
 TO CAP & ALL FACES OF NEW PEDESTALS
 AFTER BEARING INSTALLATION
 (7) TYP
 (16) TYP
 (15) REPLACE DOWNSPOUT
 (8) 10" DIA GALVANIZED DOWNSPOUT
 (TO REMAIN)
 EXISTING GROUND LINE
 (6) CLEAN UNDERGROUND DRAINAGE SYSTEM
 AS DIRECTED



BENT 3B NORTH FACE
NOT TO SCALE

(11) APPLY PROTECTIVE COATING
 (PENETRATING SEALER) TO
 ALL FACES UNLESS NOTED OTHERWISE



BENT 3B EAST FACE
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- SCOPE OF WORK ITEM (1)
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580
ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 BENT 3B REPAIRS**

RECOMMENDED _____ SHEET 10 OF 39

S - 38580

NOTES:

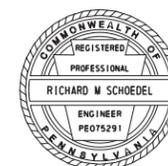
1. CONCRETE REPAIR LOCATIONS SHOWN REPRESENT APPROXIMATE SPALLED OR DELAMINATED SURFACE AREA, ACTUAL REPAIR DIMENSIONS AND LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE REPRESENTATIVE.
2. APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER) TO ALL CONCRETE SURFACES ABOVE GRADE, UNLESS NOTED OTHERWISE.
3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

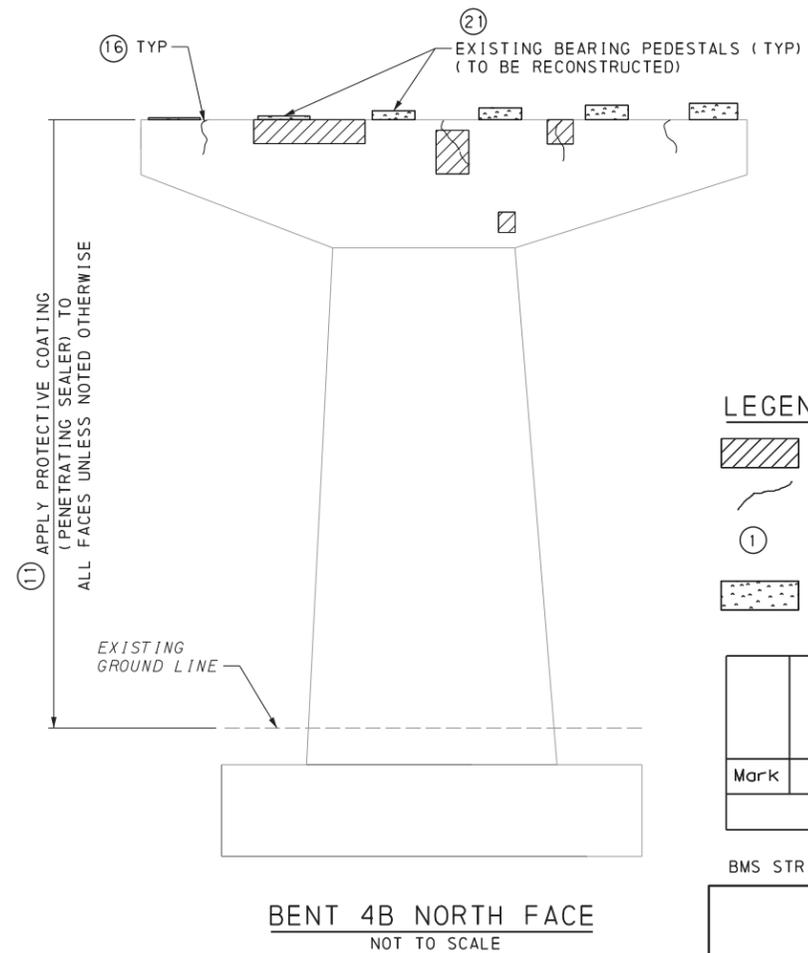
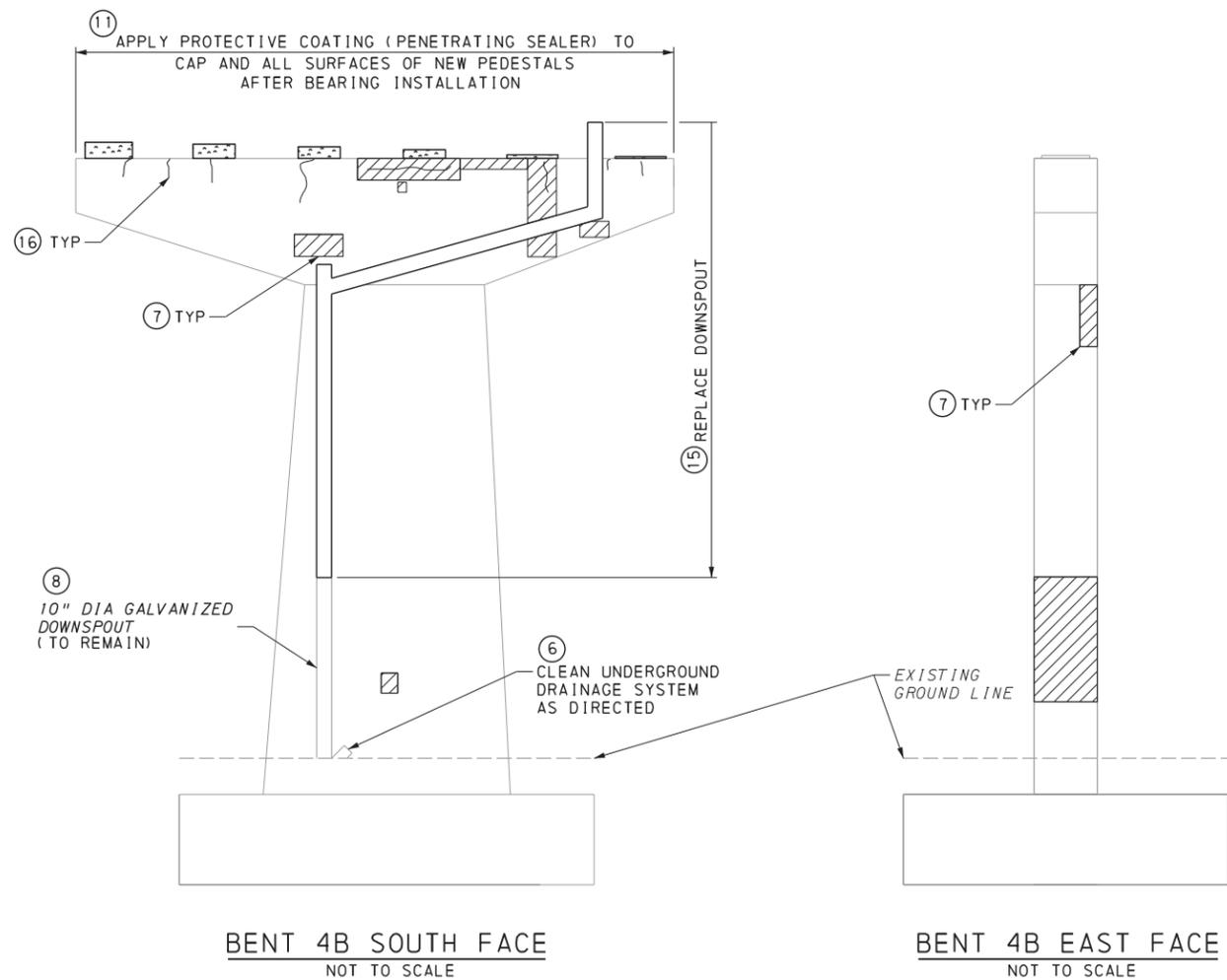
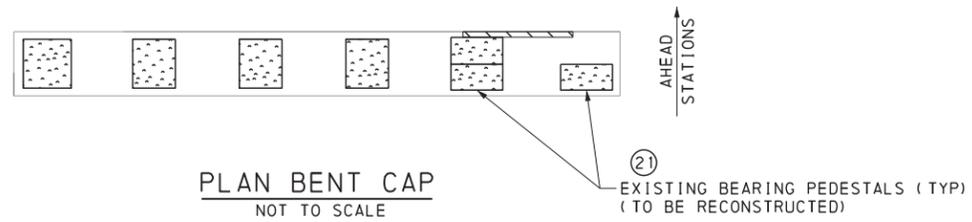
REFERENCES:

1. GENERAL PLAN
2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
3. SCOPE OF WORK
4. GENERAL ELEVATION & INDEX OF DRAWINGS
5. TYP SECTION & LOAD RATINGS
6. GENERAL NOTES
7. CONCRETE REPAIR DETAILS

SHEET:

- 1
- 1
- 1
- 2
- 3
- 4
- 17





LEGEND:

-  APPROXIMATE AREA OF CONCRETE REPAIR (7)
-  APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
-  SCOPE OF WORK ITEM
-  REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 BENT 4B REPAIRS**

| | |
|-------------------|------------------------------|
| RECOMMENDED _____ | SHEET <u>11</u> OF <u>39</u> |
| S - 38580 | |

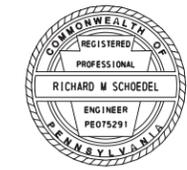
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2. APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER) TO ALL CONCRETE SURFACES ABOVE GRADE, UNLESS NOTED OTHERWISE.
3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15378.

REFERENCES:

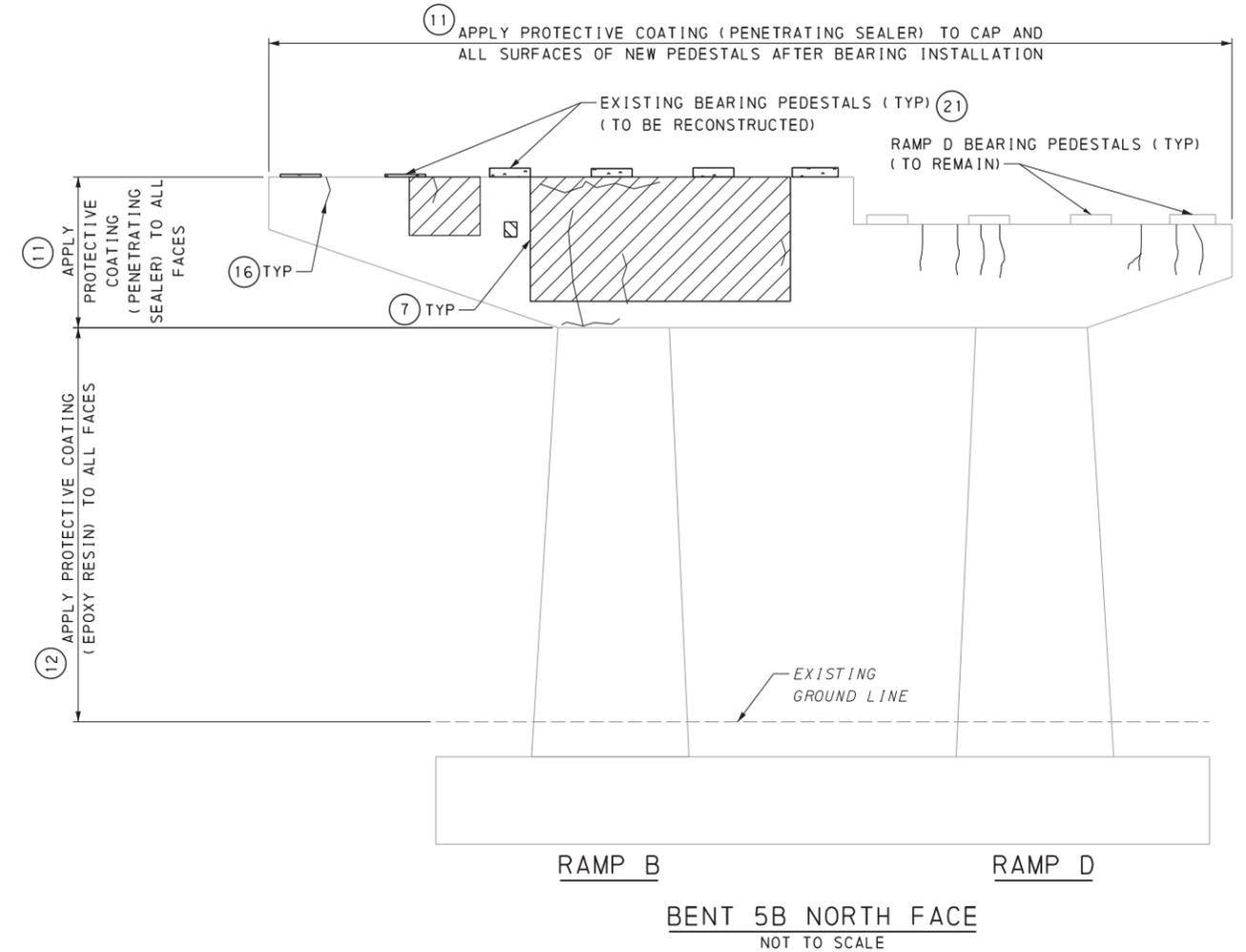
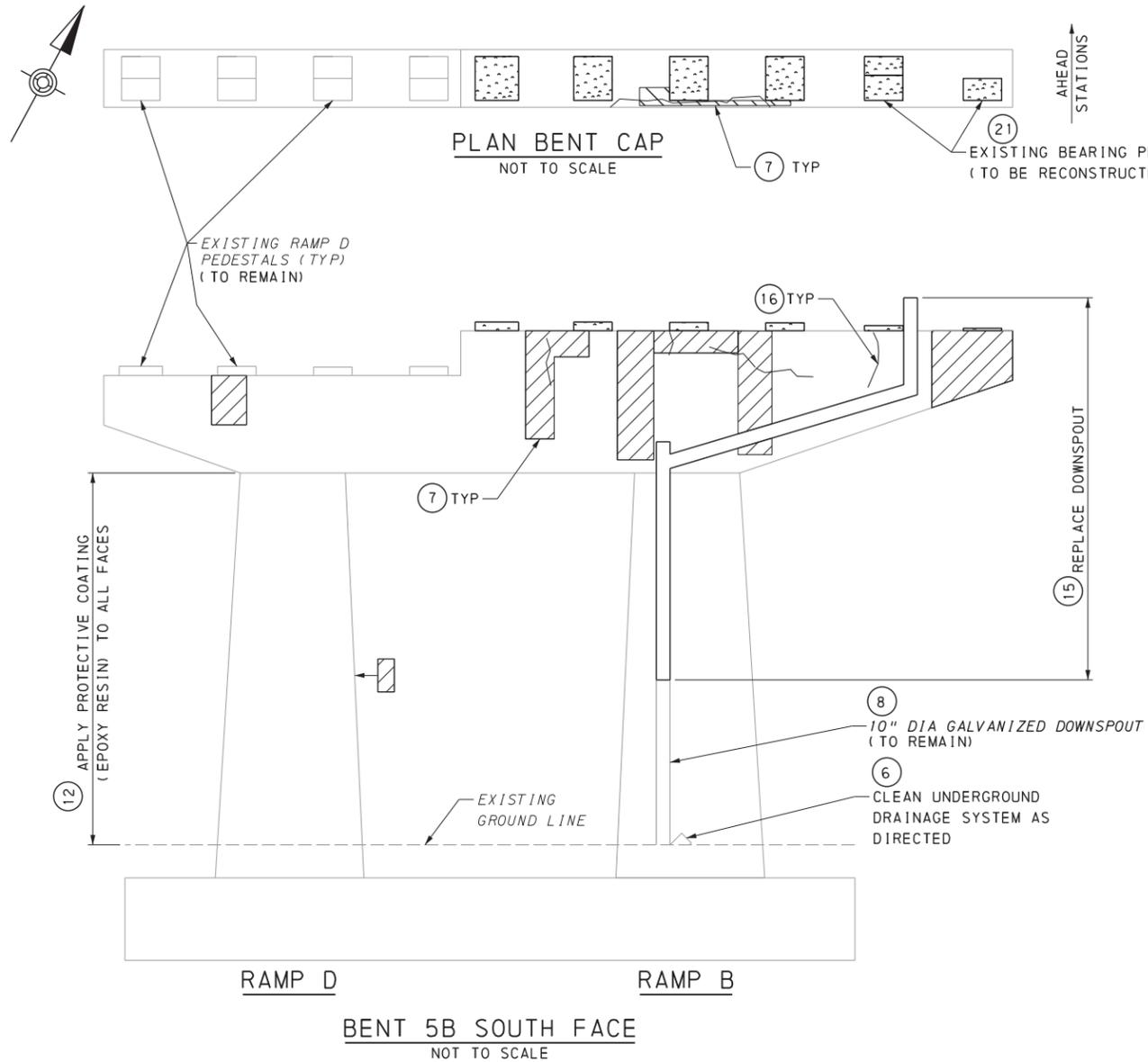
1. GENERAL PLAN 1
2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS 1
3. SCOPE OF WORK 1
4. GENERAL ELEVATION INDEX OF DRAWINGS 2
5. TYP SECTION & LOAD RATINGS 3
6. GENERAL NOTES 4
7. CONCRETE REPAIR DETAILS 17

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LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- SCOPE OF WORK ITEM
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 5B REPAIRS**

RECOMMENDED _____ SHEET 12 OF 39
S - 38580

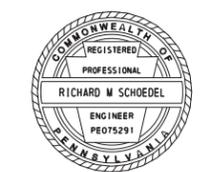
NOTES:

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2. APPLY PROTECTIVE COATING (PENETRATING SEALER) TO ALL FACES OF THE PIER CAP, AND (EPOXY RESIN) TO ALL CONCRETE SURFACES BELOW THE PIER CAP TO GROUND LINE.
3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

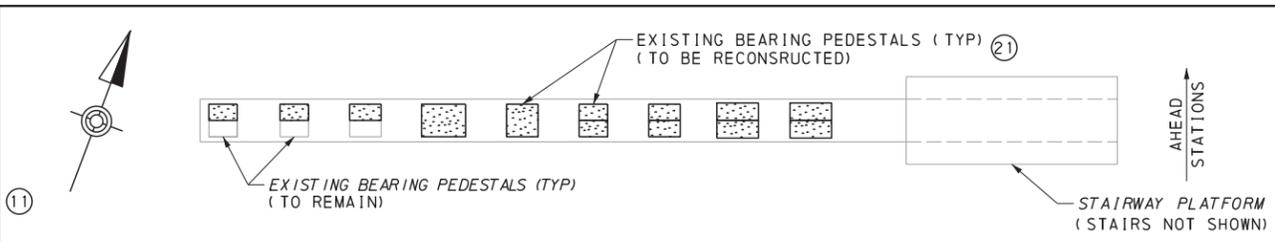
REFERENCES:

1. GENERAL PLAN 1
2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS 1
3. SCOPE OF WORK 1
4. GENERAL ELEVATION & INDEX OF DRAWINGS 2
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7. CONCRETE REPAIR DETAILS 17

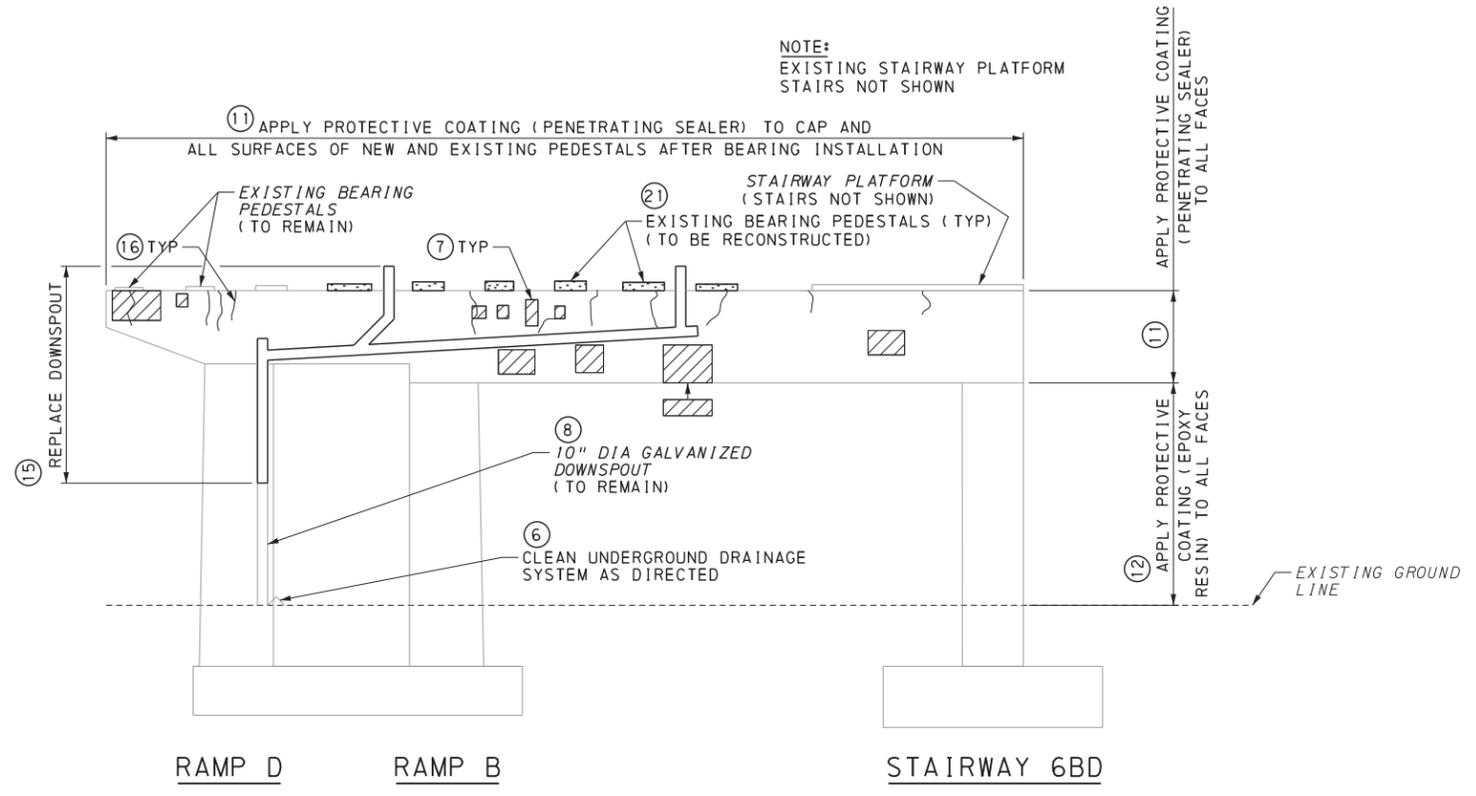
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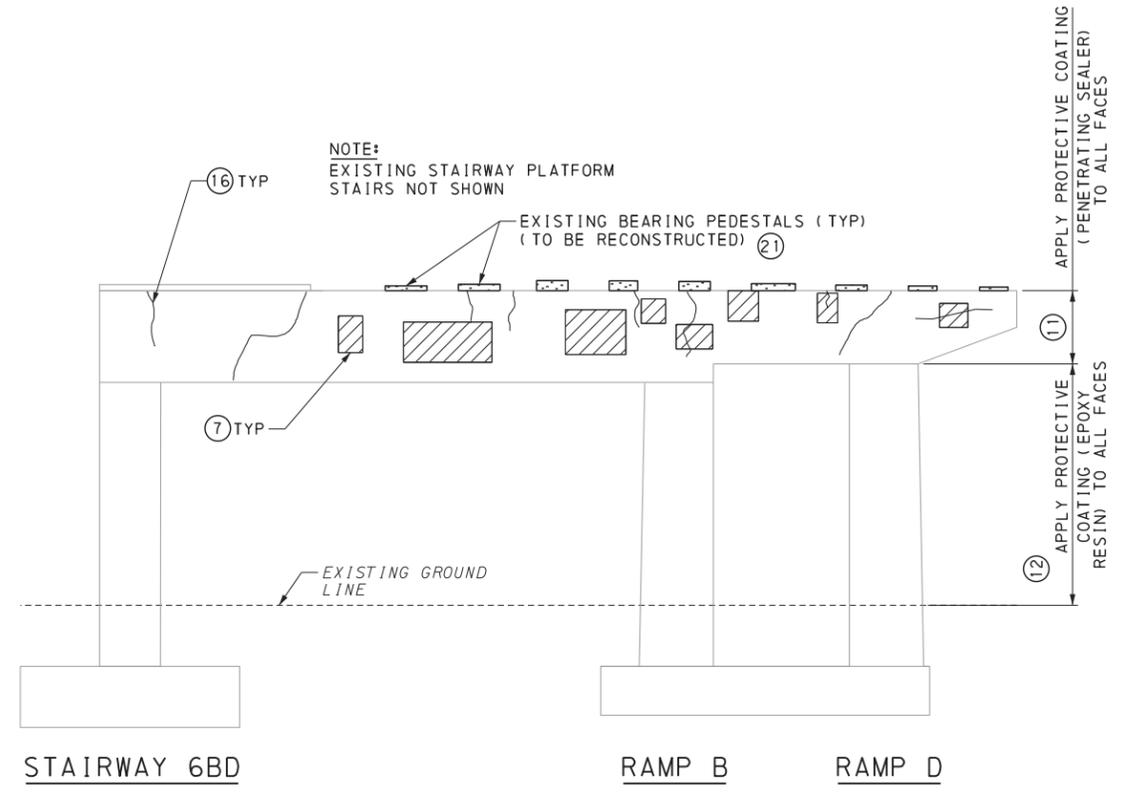
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PLAN BENT CAP
NOT TO SCALE



BENT 6BD SOUTH FACE
NOT TO SCALE



BENT 6BD NORTH FACE
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- SCOPE OF WORK ITEM
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

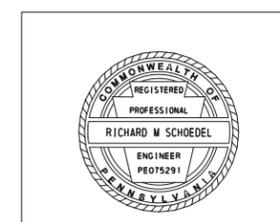
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4. GENERAL ELEVATION & INDEX OF DRAWINGS 2
5. TYP SECTION & LOAD RATINGS 3
6. GENERAL NOTES 4
7. CONCRETE REPAIR DETAILS 17

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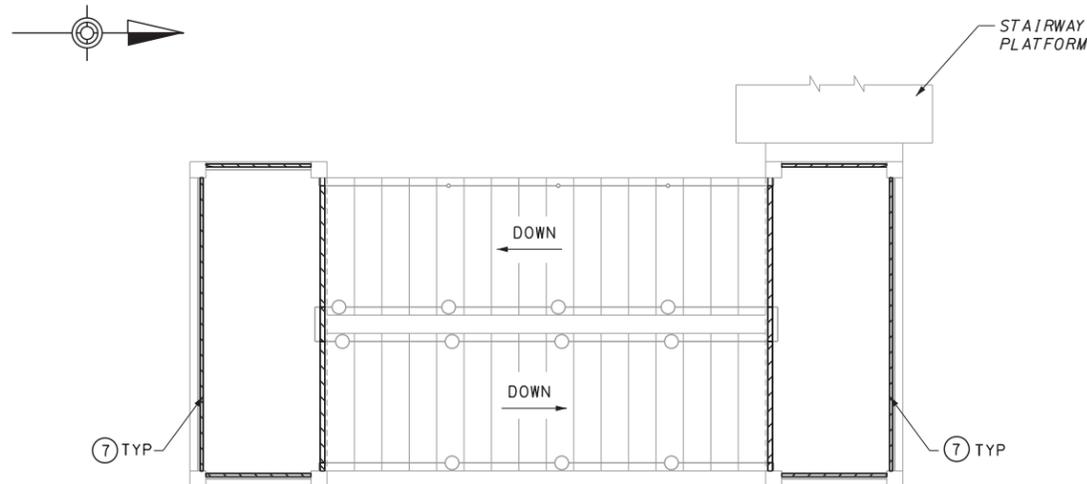
| Mark | Description | By | Chk' d. | Recm' d. | Date |
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| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

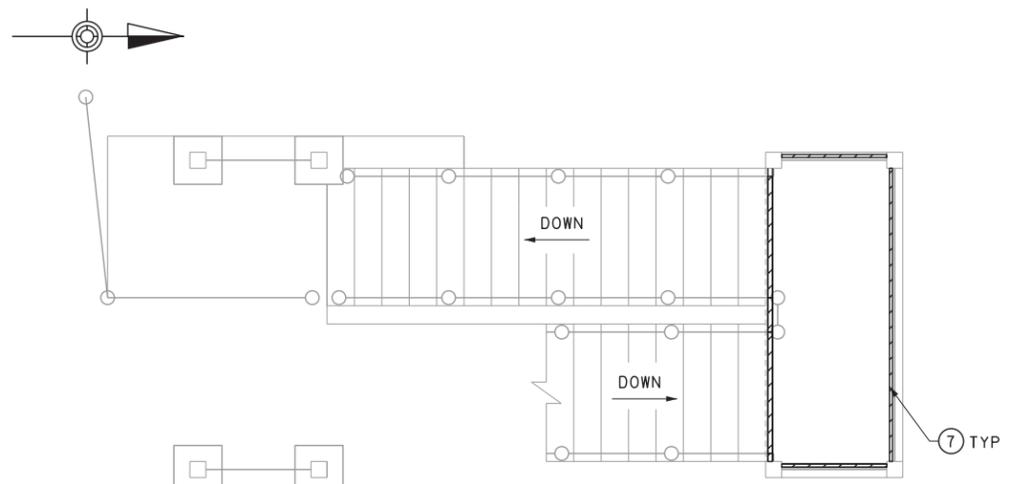
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 6BD REPAIRS**

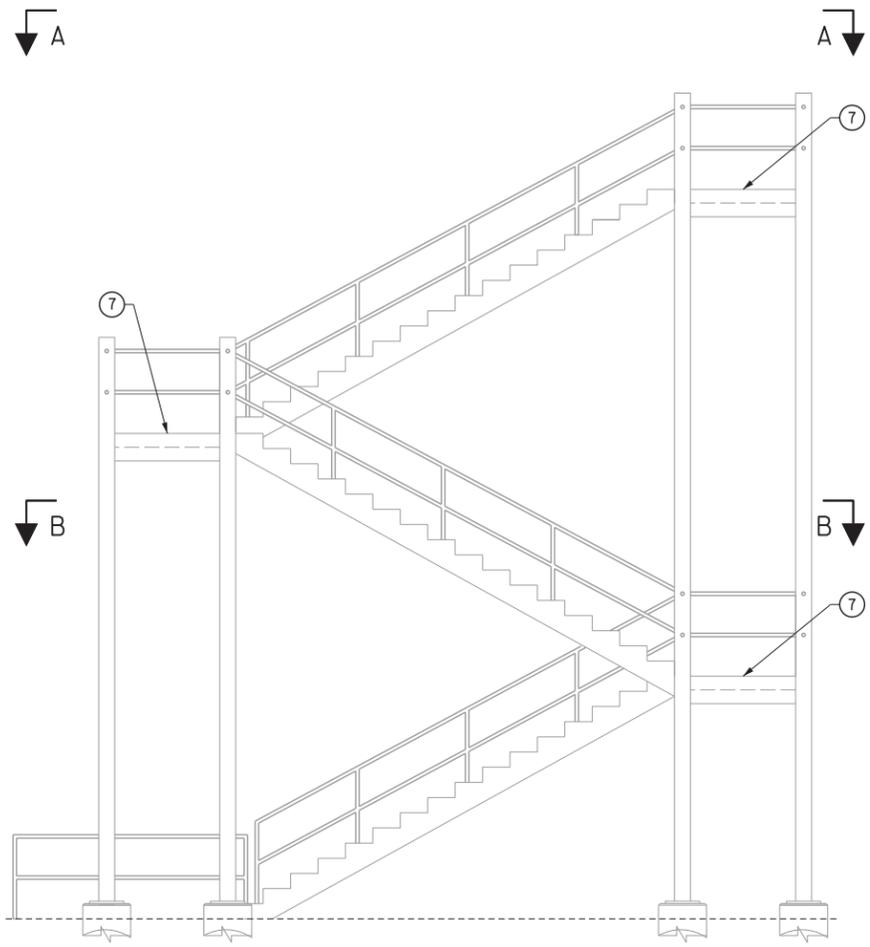
RECOMMENDED _____ SHEET 13 OF 39
S - 38580



VIEW A-A
NOT TO SCALE



VIEW B-B
NOT TO SCALE



RAMP B EAST ELEVATION OF STAIRWAY AT BENT 6BD
NOT TO SCALE

LEGEND:
 APPROXIMATE AREA OF CONCRETE REPAIR ⑦
 ① SCOPE OF WORK ITEM

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

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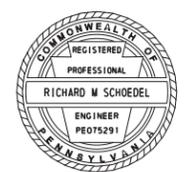
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
 PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 STAIRWAY AT BENT 6BD REPAIRS

RECOMMENDED _____ SHEET 14 OF 39
 S - 38580

NOTE:
 1. CONCRETE REPAIR LOCATIONS SHOWN REPRESENT APPROXIMATE SPALLED OR DELAMINATED SURFACE AREA, ACTUAL REPAIR DIMENSIONS AND LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE REPRESENTATIVE.

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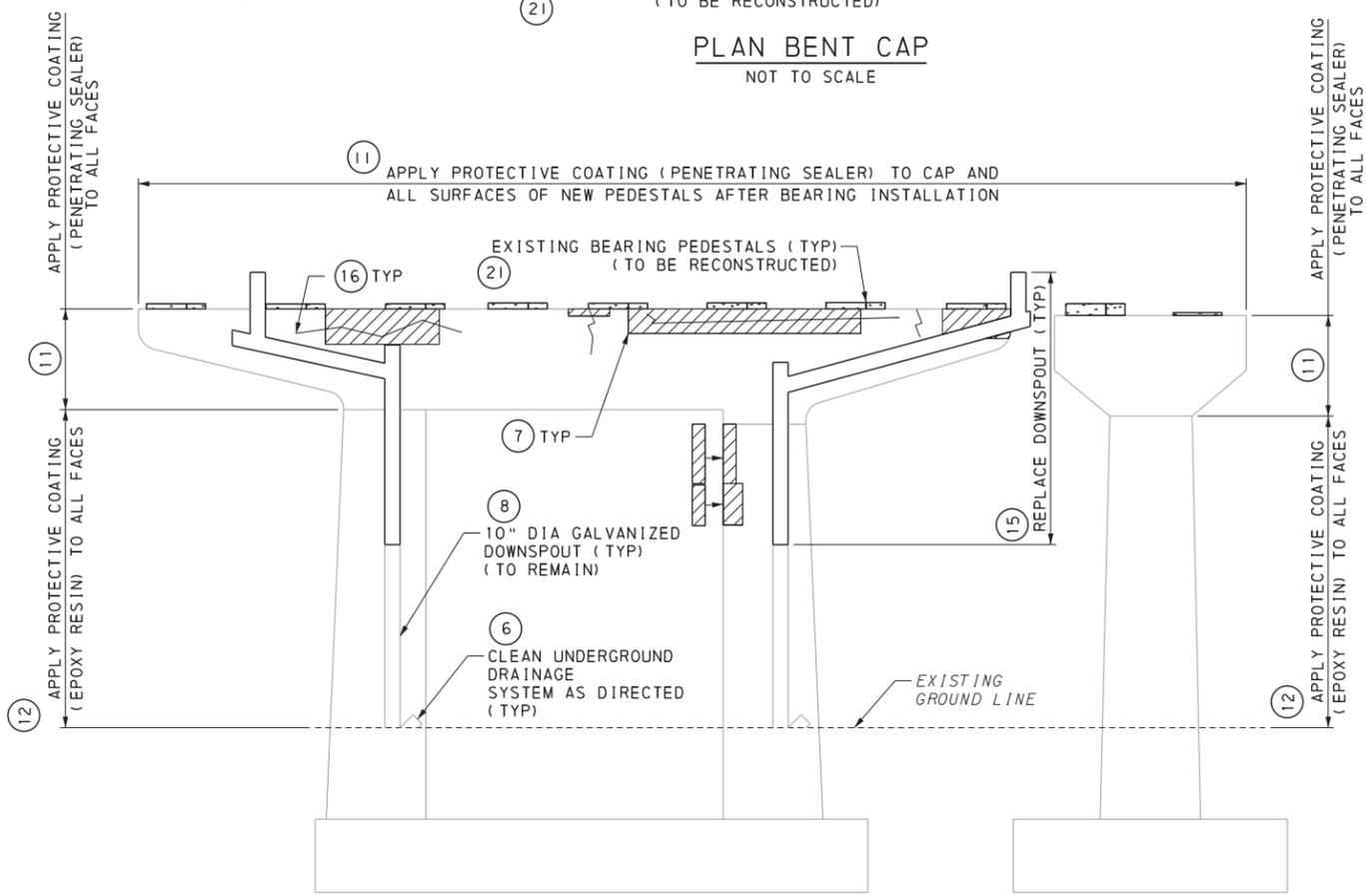
| | |
|--|----|
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
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| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |

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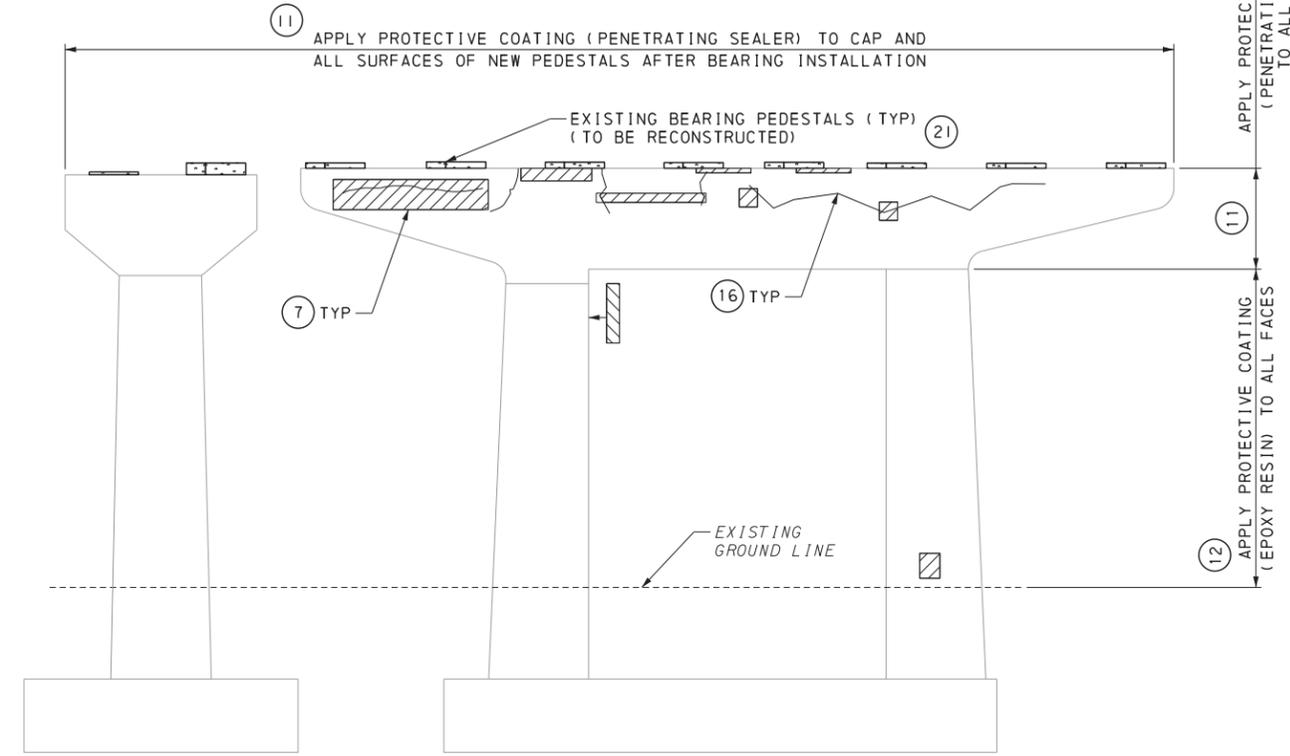
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PLAN BENT CAP
NOT TO SCALE



BENT 7BD SOUTH FACE
NOT TO SCALE



BENT 7BD NORTH FACE
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- SCOPE OF WORK ITEM
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 7BD REPAIRS**

RECOMMENDED _____ SHEET 15 OF 39
S - 38580

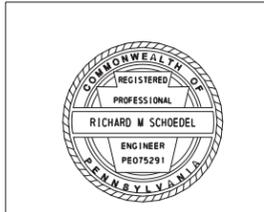
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3. FOR BEAM NUMBER REFERENCE SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

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7. CONCRETE REPAIR DETAILS

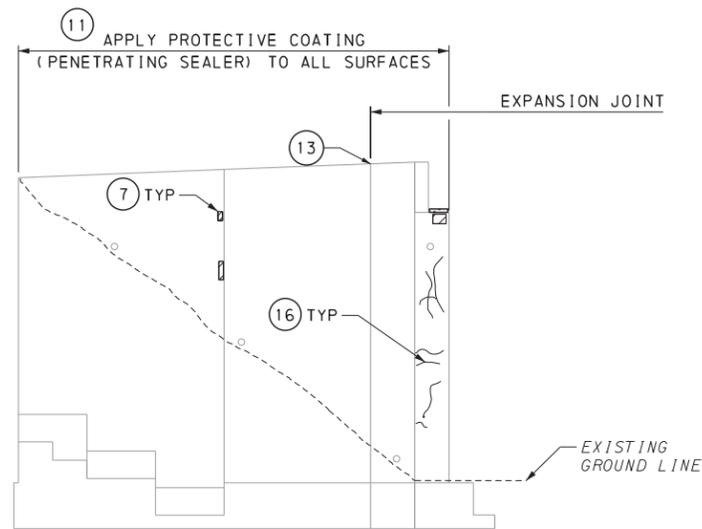
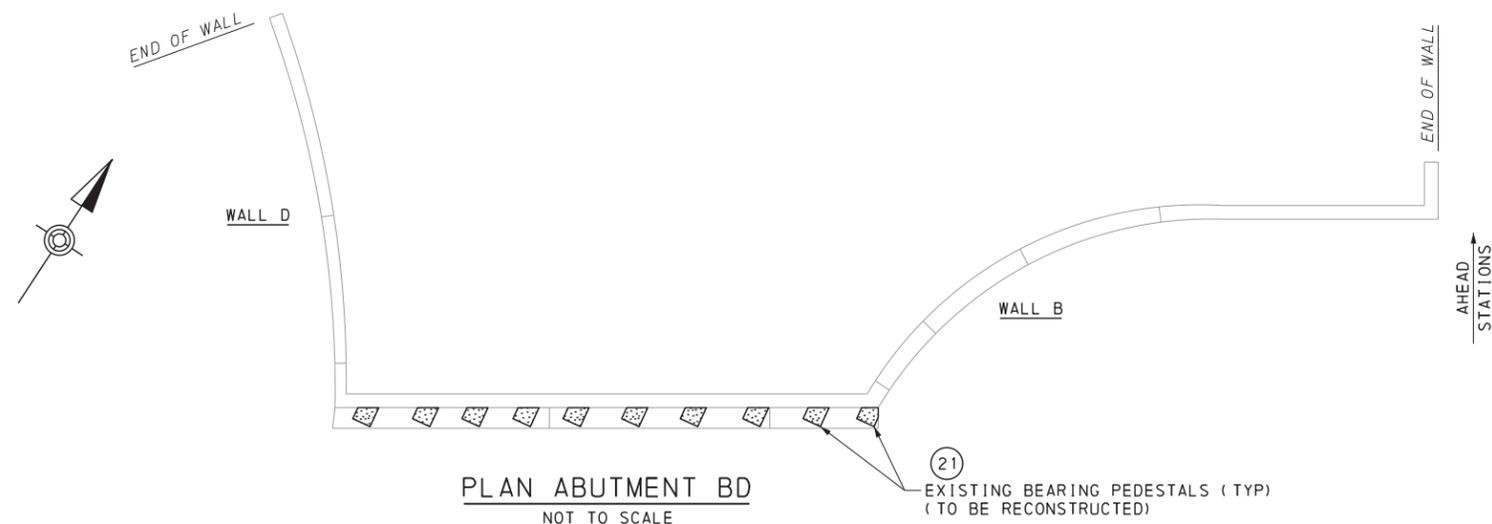
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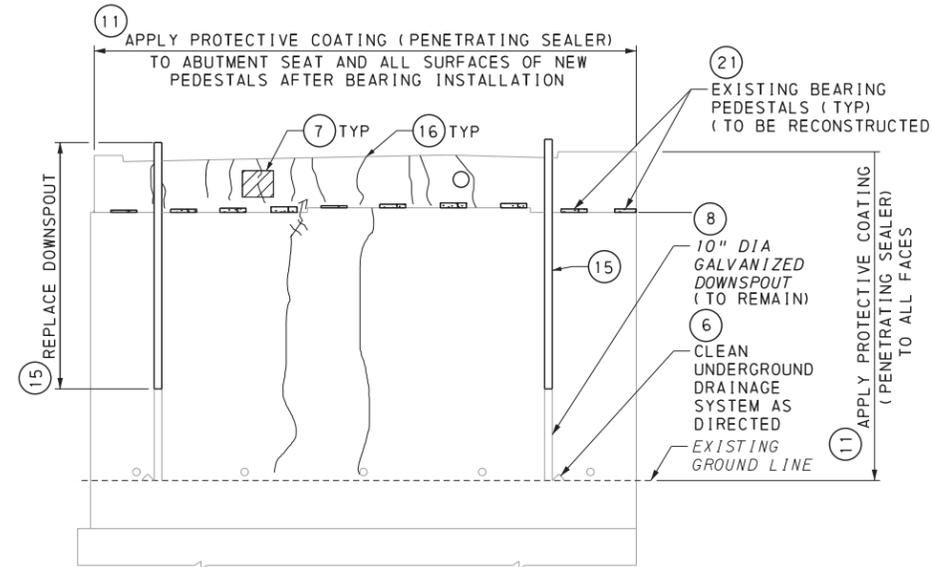
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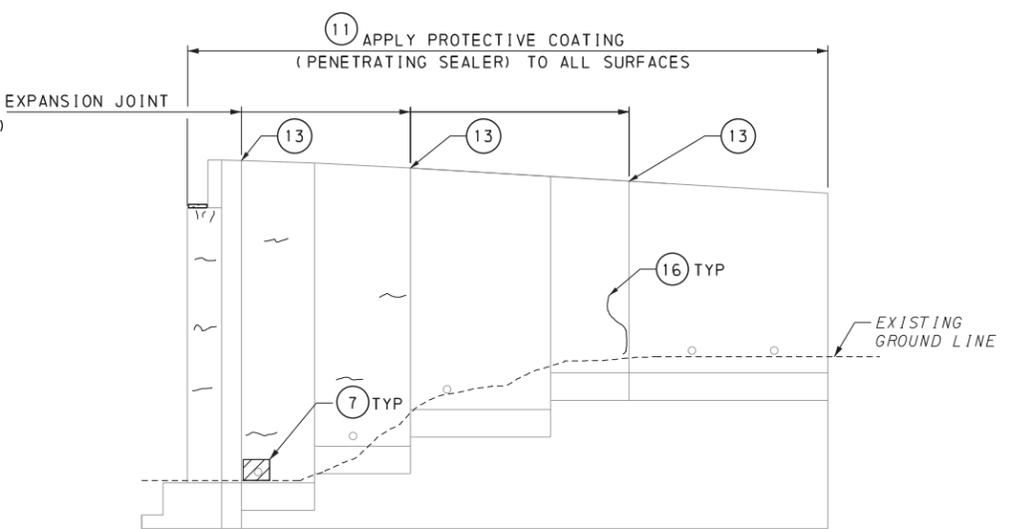
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WALL D WEST ELEVATION (DEVELOPED)
NOT TO SCALE



ABUTMENT BD SOUTH FACE
NOT TO SCALE



WALL B EAST ELEVATION (DEVELOPED)
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (7)
- APPROXIMATE LOCATION OF EPOXY INJECTION CRACK SEAL (16)
- SCOPE OF WORK ITEM
- REMOVAL OF PORTION OF EXISTING BRIDGE, S-38580 ITEM 5018-0050

| Mark | Description | By | Chk' d. | Recm' d. | Date |
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
ABUTMENT BD REPAIRS**

| | |
|-------------------|------------------------------|
| RECOMMENDED _____ | SHEET <u>16</u> OF <u>39</u> |
| S - 38580 | |

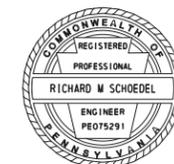
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3. FOR BEAM NUMBER REFERENCE, SEE DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.

REFERENCES:

- | | |
|--|----|
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
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| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |

SHEET:



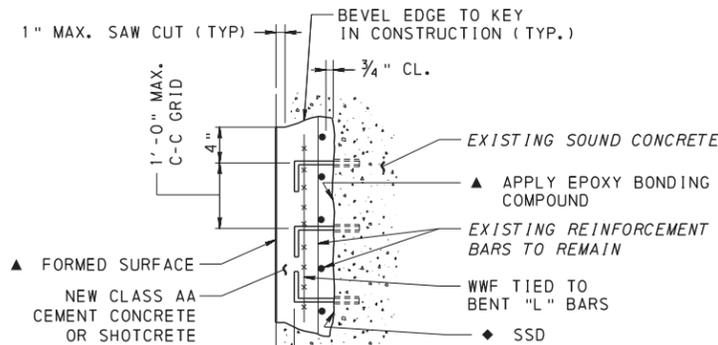
CONSTRUCTION PROCEDURE

REMOVAL, REPAIR AREA PREPARATION AND REINFORCEMENT INSTALLATION.

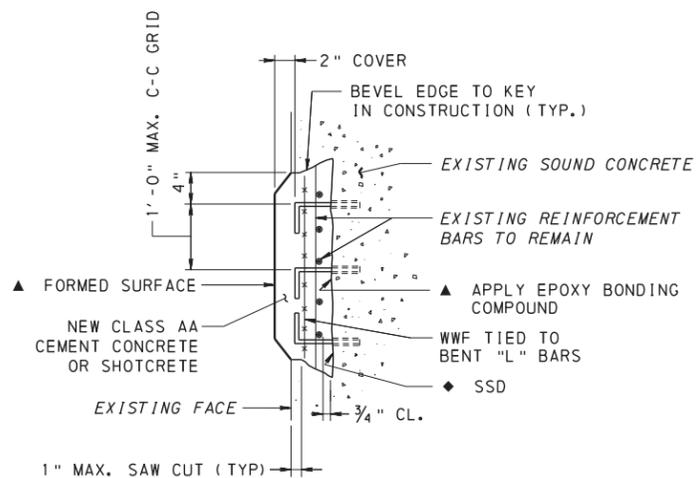
- PROVIDE SATISFACTORY PROTECTIVE SHIELDING BELOW ALL REPAIR AREAS.
- DETERMINE THE EXTENT OF THE REPAIR AREAS IN THE PRESENCE OF THE REPRESENTATIVE.
- OUTLINE THE EDGE OF THE DESIGNATED REPAIR AREAS WITH A 1" MAXIMUM DEPTH SAWCUT.
- WITHIN THE OUTLINED REPAIR AREAS, REMOVE THE DETERIORATED CONCRETE TO A DEPTH OF 3/4"-INCH BEHIND THE FIRST MAT OF REINFORCEMENT BARS TO SOUND CONCRETE. ALLOW UNCOVERED OR EXPOSED REINFORCEMENT BARS TO HAVE A 3/4"-INCH CLEARANCE ALL AROUND. IF CONCRETE IS UNSOUND AT A DEPTH OF 3/4"-INCH BEHIND THE REINFORCEMENT BARS, DO NOT REMOVE ANY ADDITIONAL CONCRETE WITHOUT THE APPROVAL OF THE STRUCTURE CONTROL ENGINEER.
- SQUARE-OUT/BEVEL THE EDGE OF THE REPAIR AREAS TO KEY IN CONSTRUCTION. USE HAND TOOLS FOR REMOVING DETERIORATED CONCRETE. USE PNEUMATIC HAMMERS, IF REQUIRED, NOT EXCEEDING AN IMPACT RATING OF 30 FOOT POUNDS. IF DETERIORATED CONCRETE EXTENDS BEYOND THE INITIALLY OUTLINED REPAIR AREA, ENLARGE AREA AS DIRECTED BY THE REPRESENTATIVE.
- AFTER THE REMOVAL OPERATIONS ARE COMPLETE, CLEAN ALL REMAINING DEBRIS AND LOOSE MATERIALS FROM THE REPAIR AREAS BY ABRASIVE BLASTING. ABRASIVE BLAST EXPOSED REINFORCEMENT BARS TO SSPC-SP10. EPOXY COAT THE EXPOSED REINFORCEMENT BARS. SPLICE ANY DAMAGED OR HEAVILY CORRODED REINFORCEMENT BARS AT 50% OR MORE SECTION LOSS IN ACCORDANCE WITH STANDARD DRAWING BC-736M. IF ENOUGH SPLICE LENGTH IS NOT AVAILABLE, DRILL NEW DOWEL HOLES AND PLACE DOWEL BARS AS DIRECTED.
- PLACE EPOXY COATED NO. 4 BENT "L" REINFORCEMENT BARS IN A 1'-0" CENTER-TO-CENTER MAXIMUM SPACED GRID. ANCHOR INTO SOUND CONCRETE WITH EPOXY ANCHORING SYSTEM.
- ATTACH WWF TO THE BENT "L" REINFORCEMENT BARS WITH ANNEALED IRON WIRE AT A MAXIMUM SPACING OF 1'-0" IN EACH DIRECTION. IF USING 6X6 WWF, PLACE A SECOND LAYER OF 6X6 WWF AND STAGGER TO ACHIEVE A 3X3 GRID SPACING.
- REPAIR ANY CONCRETE DAMAGED DURING THE OPERATIONS TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

CONCRETE PLACEMENT

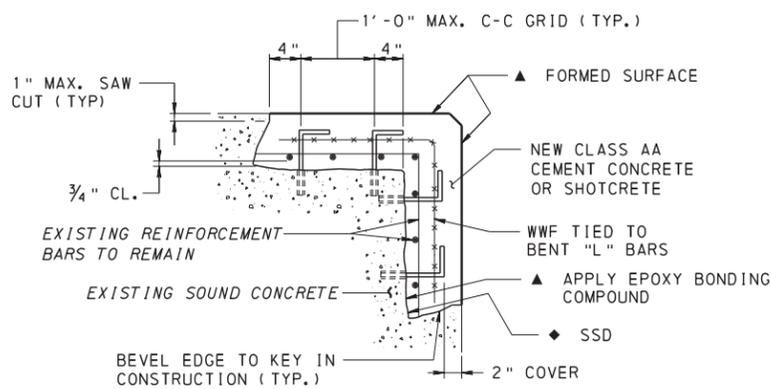
- ▲ : CONVENTIONAL METHOD
- SET FORMS TO PROVIDE MINIMUM CONCRETE COVER OF 2 INCHES. IF ENOUGH CONCRETE COVER ON THE EXISTING REINFORCEMENT BARS IS NOT AVAILABLE, HAUNCH THE REPAIR OUTWARD.
- MAINTAIN ALL EXISTING CHAMFERS.
- AIR-BLAST ALL REPAIR AREAS WITH OIL-FREE COMPRESSED AIR TO PROTECT AGAINST ANY CONTAMINANT DETRIMENTAL TO THE BOND OF THE NEW CONCRETE. APPLY EPOXY BONDING COMPOUND TO THE REPAIR AREA. WHILE THE EPOXY BONDING COMPOUND IS STILL TACKY, PLACE CLASS AA CEMENT CONCRETE WITH NO. 8 COARSE AGGREGATE. DO NOT PLACE CONCRETE IF THE COMPOUND IS NO LONGER TACKY OR IF THE COMPOUND HAS HARDENED. RECOAT ANY COMPOUND THAT IS NO LONGER TACKY. WIRE BRUSH OR ABRASIVE BLAST ANY COMPOUND THAT HAS HARDENED AND RECOAT REPAIR AREA.
- ◆ : SHOTCRETE METHOD
- PROVIDE MINIMUM CONCRETE COVER OF 2 INCHES. IF ENOUGH CONCRETE COVER ON THE EXISTING REINFORCEMENT BARS IS NOT AVAILABLE, HAUNCH THE REPAIR OUTWARD.
- MAINTAIN ALL EXISTING CHAMFERS.
- AIR-BLAST ALL REPAIR AREAS WITH OIL-FREE COMPRESSED AIR TO PROTECT AGAINST ANY CONTAMINANT DETRIMENTAL TO THE BOND OF THE NEW CONCRETE.
- SATURATE THE PREPARED CONCRETE SUBSTRATE WITH CLEAN WATER THE DAY BEFORE THE SHOTCRETE APPLICATION. BRING WETTED SURFACES TO A SATURATED SURFACE DRY (SSD) CONDITION BEFORE APPLICATION OF SHOTCRETE. DO NOT APPLY SHOTCRETE TO A DRY SURFACE, OR TO A SURFACE WITH FREE SURFACE WATER.



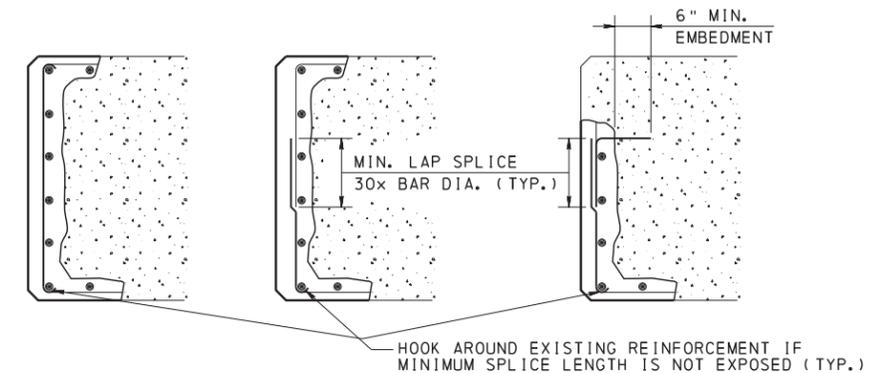
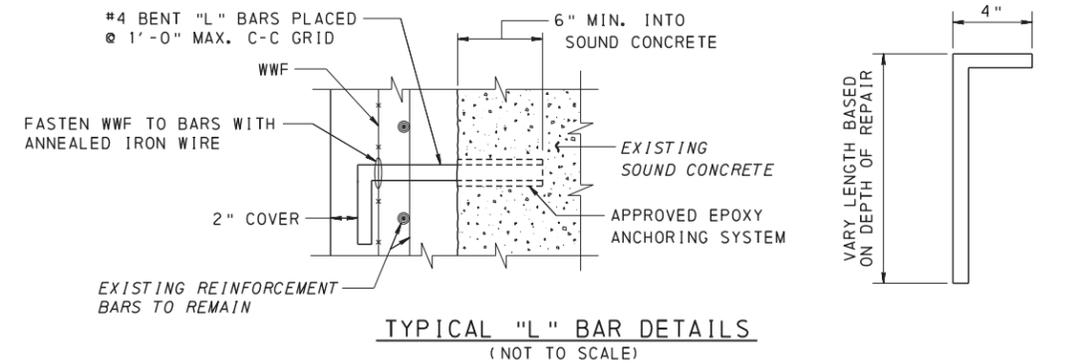
TYPICAL REPAIR DETAIL
(NOT TO SCALE)



REPAIR FOR LESS THAN 2" COVER
(NOT TO SCALE)



TYPICAL CORNER REPAIR DETAIL
(NOT TO SCALE)



SPLICE DETAILS FOR PIER CAP STIRRUPS WITH ≥ 50% SECTION LOSS
(NOT TO SCALE)

LEGEND

- ▲ : CONVENTIONAL METHOD (FORM AND PLACE) ONLY
- ◆ : SHOTCRETE METHOD ONLY
- SSD : SATURATED SURFACE DRY
- WWF : WELDED WIRE FABRIC

NOTES

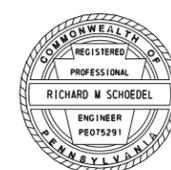
USE A PACHOMETER TO LOCATE EXISTING REINFORCEMENT WHEN DRILLING DOWEL HOLES TO AVOID DRILLING THRU EXISTING BARS.

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

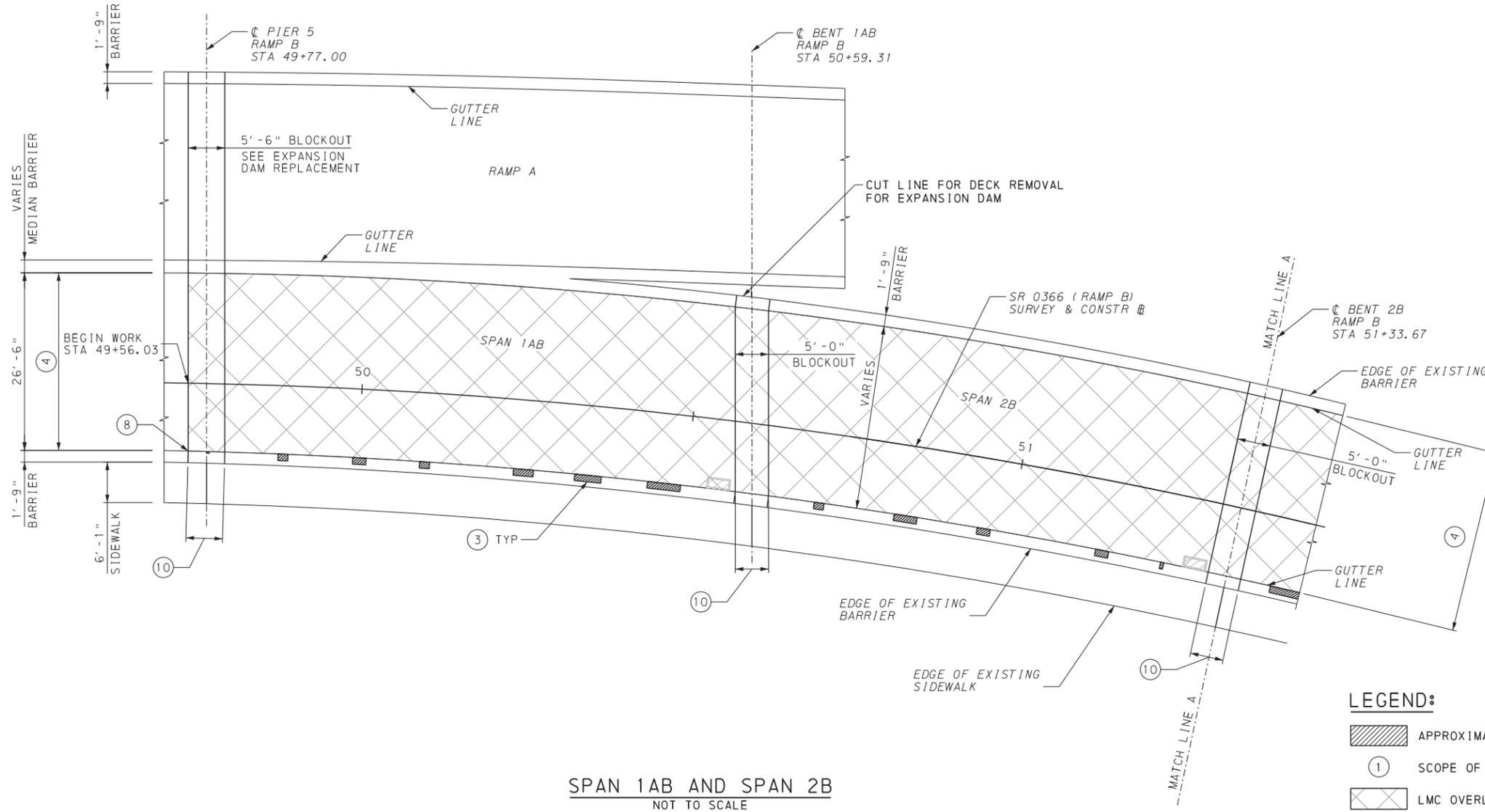
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
CONCRETE REPAIR DETAILS



RECOMMENDED _____ SHEET 17 OF 39

S - 38580

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SPAN 1AB AND SPAN 2B
NOT TO SCALE

LEGEND:

| | |
|-----|---|
| | APPROXIMATE AREA OF CONCRETE REPAIR (3) |
| (1) | SCOPE OF WORK ITEM |
| | LMC OVERLAY (4) |
| | EXISTING SCUPPER |

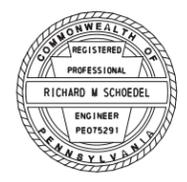
| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

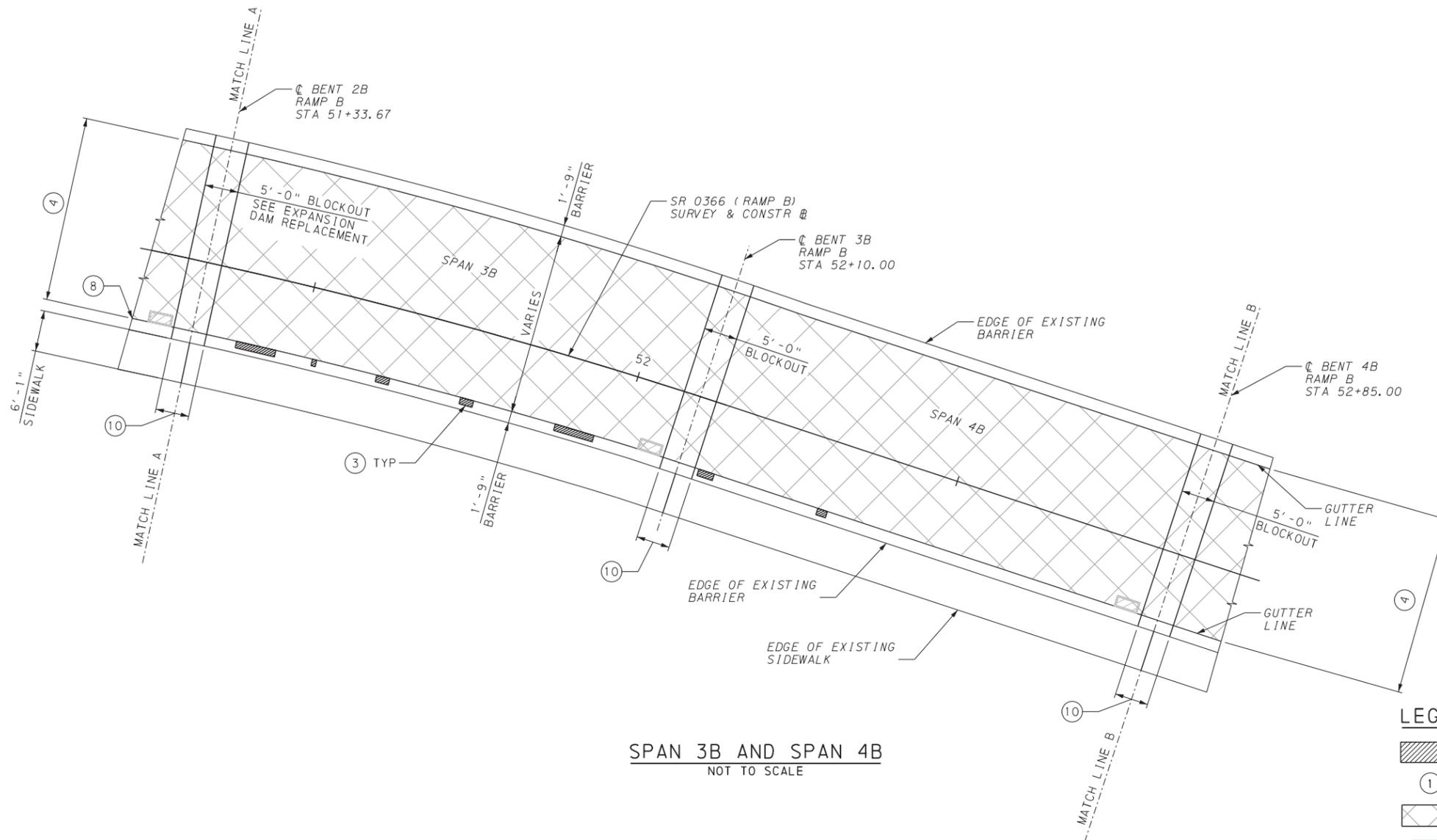
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
DECK PLAN - 1

| | |
|--|---------------|
| REFERENCES: | SHEET: |
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |
| 8. DECK PLAN 2 - 4 | 19-21 |
| 9. EXPANSION DAM REPLACEMENT | 22-25 |



| | |
|-------------------|----------------|
| RECOMMENDED _____ | SHEET 18 OF 39 |
| | S - 38580 |

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SPAN 3B AND SPAN 4B
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (3)
- SCOPE OF WORK ITEM (1)
- LMC OVERLAY (4)
- EXISTING SCUPPER

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

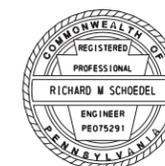
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
DECK PLAN - 2

| | |
|-------------------|----------------|
| RECOMMENDED _____ | SHEET 19 OF 39 |
| S - 38580 | |

REFERENCES:

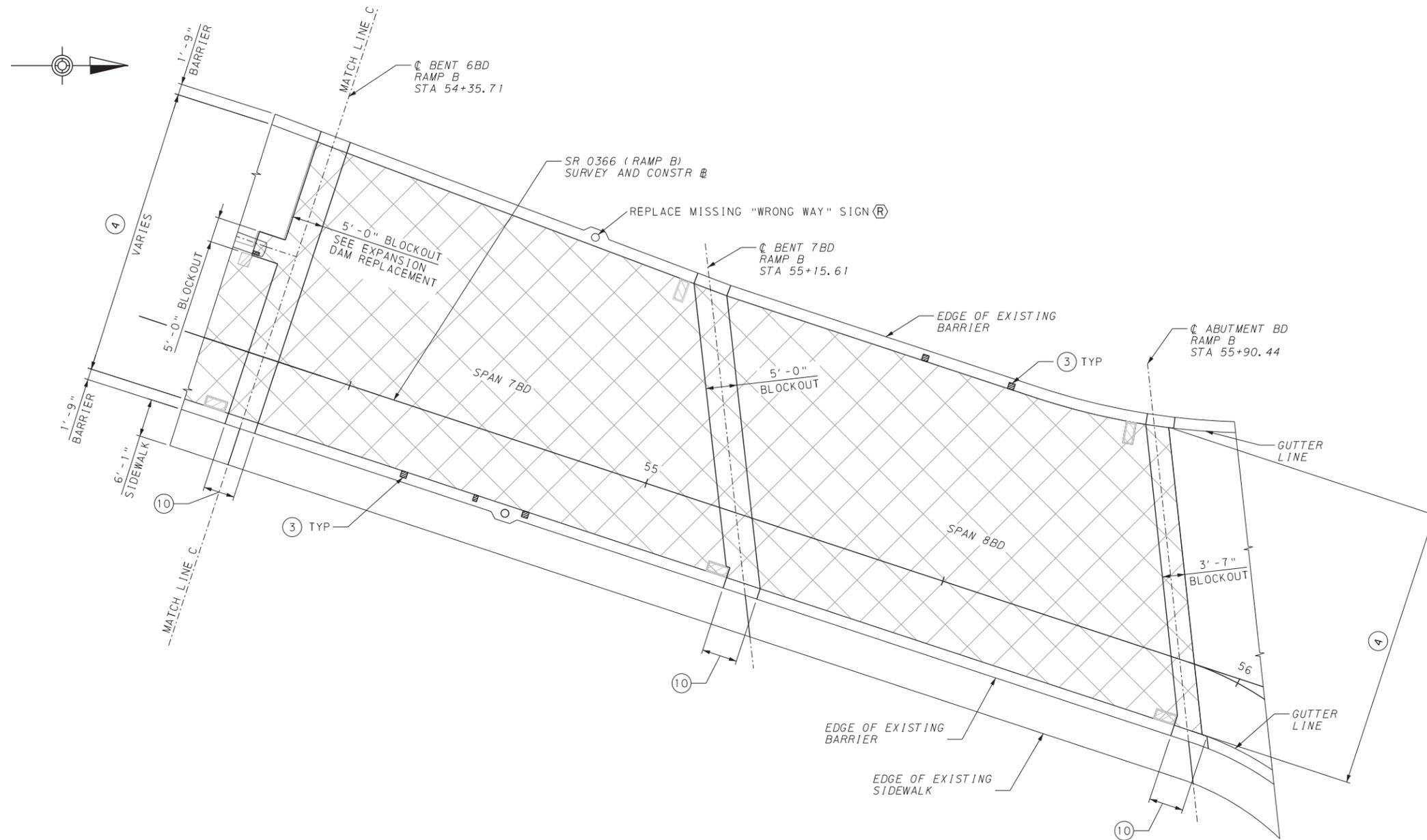
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|--|-----------|
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |
| 8. DECK PLAN 1, 3 - 4 | 18, 20-21 |
| 9. EXPANSION DAM REPLACEMENT | 24-25 |

SHEET:



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SPAN 7BD AND SPAN 8BD
NOT TO SCALE

LEGEND:

- APPROXIMATE AREA OF CONCRETE REPAIR (3)
- SCOPE OF WORK ITEM (1)
- LMC OVERLAY (4)
- EXISTING SCUPPER
- ROADWAY ITEM (R)

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
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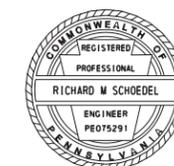
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

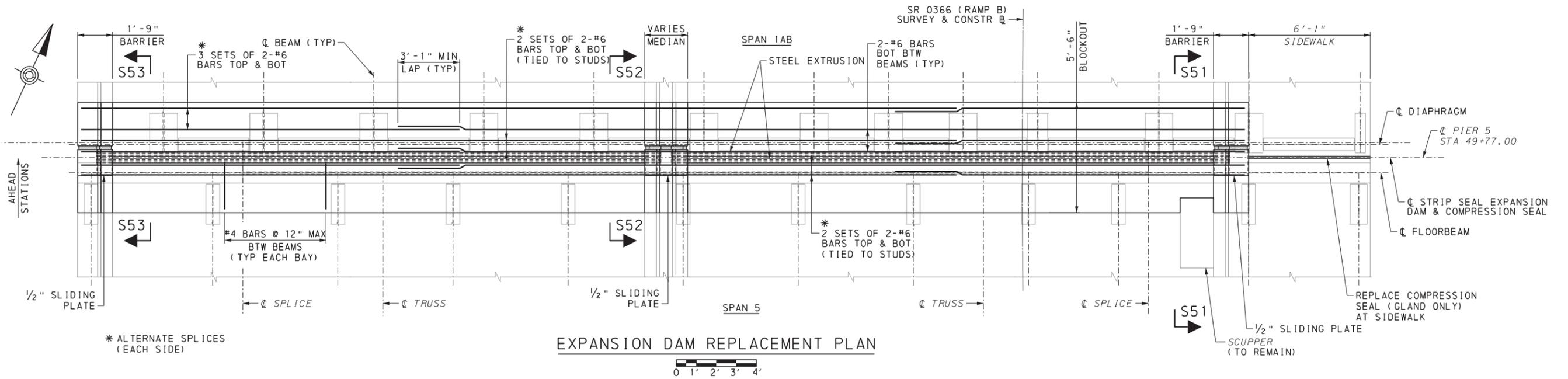
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
DECK PLAN - 4

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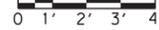
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| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. SCOPE OF WORK | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. CONCRETE REPAIR DETAILS | 17 |
| 8. DECK PLAN 1-3 | 18-20 |
| 9. EXPANSION DAM REPLACEMENT | 26-32 |

SHEET:





EXPANSION DAM REPLACEMENT PLAN



EXPANSION DAM NOTES:

1. PROVIDE UNDERDECK PROTECTIVE SHIELDING (ITEM NO. 9000-0011) IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. SAWCUT, REMOVE AND DISCARD PORTIONS OF BARRIER AND DECK CONCRETE. REMOVE AND DISCARD EXISTING VERTICAL REINFORCEMENT IN BARRIERS AND EXISTING TRANSVERSE REINFORCEMENT IN DECK AS INDICATED ON PLANS. REMOVE AND DISCARD EXISTING EXPANSION DAM ASSEMBLY.
3. CONTRACTOR TO EXERCISE CAUTION DURING REMOVAL OF EXISTING CONCRETE, TRANSVERSE REINFORCEMENT IN DECK AND VERTICAL REINFORCEMENT IN BARRIERS. DO NOT DAMAGE EXISTING LONGITUDINAL REINFORCEMENT IN DECK AND BARRIERS TO REMAIN. ANY DAMAGE SUSTAINED TO THE PORTION OF BARRIERS, DECK, AND REINFORCEMENT DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. PRIOR TO PLACEMENT OF NEW CONCRETE, CONTRACTOR TO CLEAN EXISTING REINFORCEMENT AND PAINT WITH EPOXY PAINT. PLACE NEW TRANSVERSE REINFORCEMENT IN THE DECK AND VERTICAL REINFORCEMENT IN THE BARRIERS. INSTALL NEW NEOPRENE STRIP SEAL DAM ALONG THE DECK AND COMPRESSION SEAL (GLAND ONLY) AT THE SIDEWALK LOCATION.
5. THE EXPOSED FACES OF EXISTING DECK AND BARRIERS TO BE CLEANED. APPLY AN APPROVED EPOXY BONDING COMPOUND TO THE SURFACES.
6. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF EXTRUSIONS AND HOOD PLATE.
7. CONTRACTOR TO VERIFY THAT THE BAR BENDING DIMENSIONS GIVEN ON THIS DRAWING WILL FIT WITH THE PROPOSED CONSTRUCTION PRIOR TO FABRICATING THESE BARS.
8. ALL NEW REINFORCEMENT SHOWN IS TO BE EPOXY COATED.
9. FOR NEOPRENE STRIP SEAL DETAILS NOT SHOWN, SEE BC-767M.
10. FOR COMPRESSION SEAL REQUIREMENTS, SEE PENNDOT PUBLICATION 408, SECTION 705.
11. PLACE EXPANSION DAM CONCRETE 1/4" LOW SO THAT THE LATEX MODIFIED CONCRETE OVERLAY MAY MATCH THE GRADE OF THE STRIP SEAL ARMOR.

LEGEND:

BTW BETWEEN

REFERENCES:

| REFERENCES: | SHEET: |
|--|--------|
| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 1 | 18 |
| 4. SECTIONS S51-S51, S52-S52 & S53-S53 | 23 |

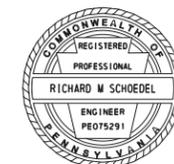
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| Mark | Description | By | Chk'd. | Recm'd. | Date |
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| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

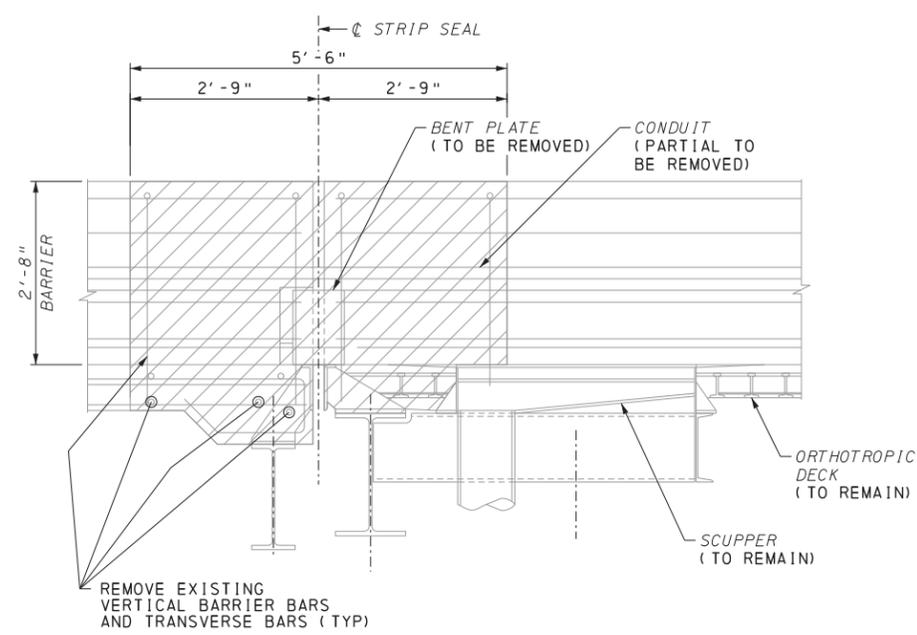
ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
PIER 5 EXP DAM REPLACEMENT - 1



RECOMMENDED _____ SHEET 22 OF 39

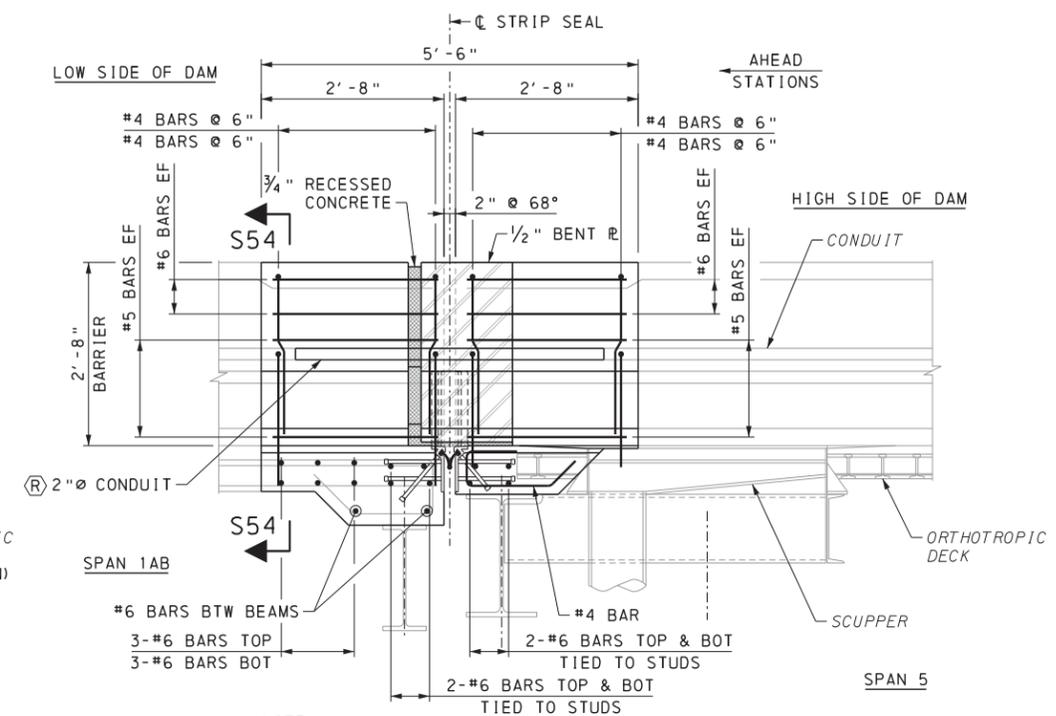
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SECTION S51-S51 (REMOVAL)
SECTIONS S52-S52 & S53-S53 (SIMILAR)

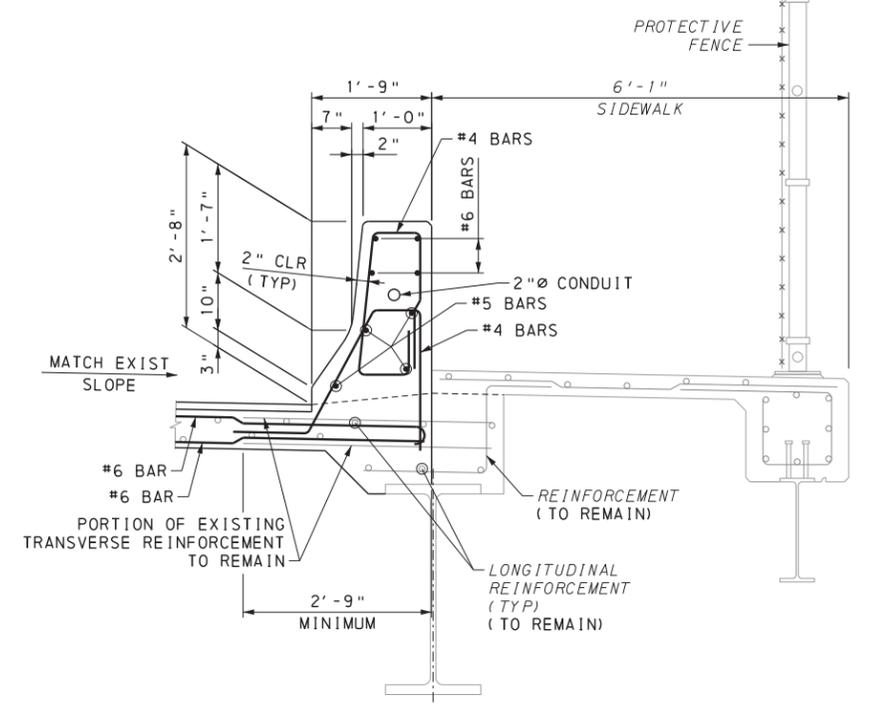
0 6 1' 2'



SECTION S51-S51 (PROPOSED)
SECTIONS S52-S52 & S53-S53 (SIMILAR)

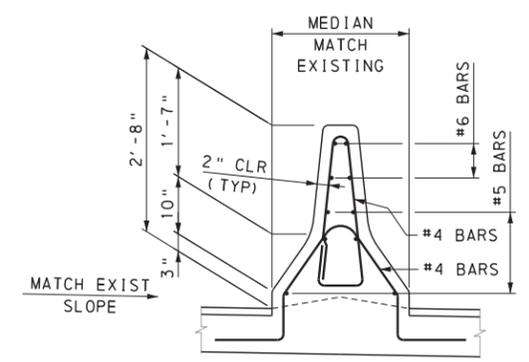
NOTE:
 REPLACE EXISTING BEAM HAUNCH REINFORCEMENT AS REQUIRED AT EXPANSION JOINT REPLACEMENT BLOCKOUT

0 6 1' 2'



SECTION S54-S54 (BARRIER)

0 6 1' 2'



SECTION S54-S54 (MEDIAN BARRIER)

NOTE:
 EXISTING AND PROPOSED DECK REINFORCEMENT NOT SHOWN

0 6 1' 2'

REFERENCES:

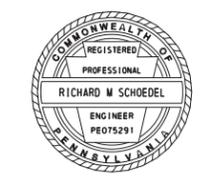
1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
2. GENERAL NOTES
3. DECK PLAN - 1
4. LOCATION OF SECTIONS S51-S51, S52-S52 & S53-S53

SHEET:

- | |
|----|
| 1 |
| 4 |
| 18 |
| 22 |

LEGEND:

- INDICATES EXISTING CONCRETE TO BE REMOVED
- INDICATES NEW STEEL BENT SLIDING PLATE
- INDICATES RECESS FOR STEEL BENT SLIDING PLATE
- EF EACH FACE
- BTW BETWEEN



| Mark | Description | By | Chk' d. | Recm' d. | Date |
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| REVISIONS | | | | | |

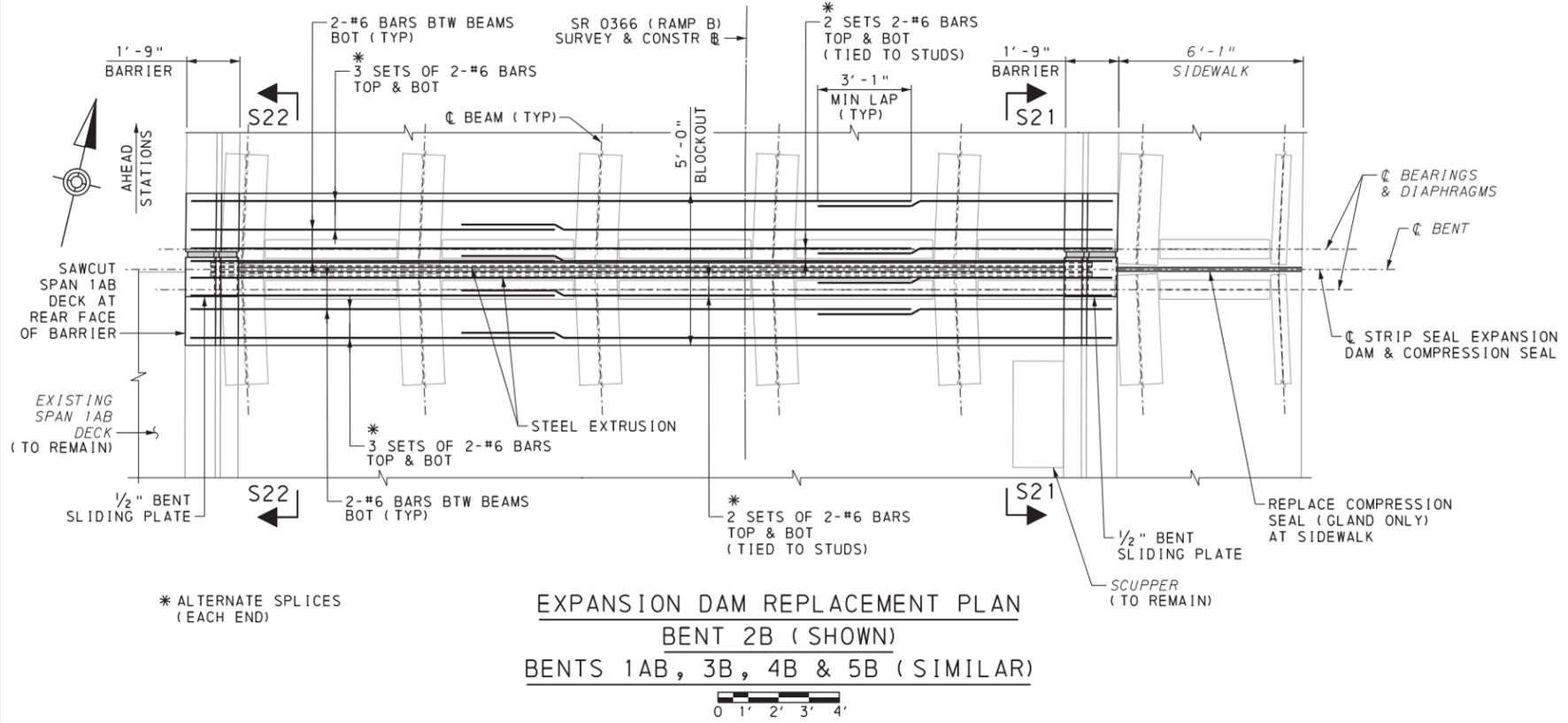
SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 PIER 5 EXP DAM REPLACEMENT - 2**

RECOMMENDED _____ SHEET 23 OF 39

S - 38580



EXPANSION DAM REPLACEMENT PLAN
BENT 2B (SHOWN)
BENTS 1AB, 3B, 4B & 5B (SIMILAR)



EXPANSION DAM NOTES:

1. PROVIDE UNDERDECK PROTECTIVE SHIELDING (ITEM NO. 9000-0011) IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. SAWCUT, REMOVE AND DISCARD PORTIONS OF BARRIER AND DECK CONCRETE. REMOVE AND DISCARD EXISTING VERTICAL REINFORCEMENT IN BARRIERS AND EXISTING TRANSVERSE REINFORCEMENT IN DECK AS INDICATED ON PLANS. REMOVE AND DISCARD EXISTING EXPANSION DAM ASSEMBLY.
3. CONTRACTOR TO EXERCISE CAUTION DURING REMOVAL OF EXISTING CONCRETE, TRANSVERSE REINFORCEMENT IN DECK AND VERTICAL REINFORCEMENT IN BARRIERS. DO NOT DAMAGE EXISTING LONGITUDINAL REINFORCEMENT IN DECK AND BARRIERS TO REMAIN. ANY DAMAGE SUSTAINED TO THE PORTION OF BARRIERS, DECK, AND REINFORCEMENT DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. PRIOR TO PLACEMENT OF NEW CONCRETE, CONTRACTOR TO CLEAN EXISTING REINFORCEMENT AND PAINT WITH EPOXY PAINT. PLACE NEW TRANSVERSE REINFORCEMENT IN THE DECK AND VERTICAL REINFORCEMENT IN THE BARRIERS. INSTALL NEW NEOPRENE STRIP SEAL DAM ALONG THE DECK AND COMPRESSION SEAL (GLAND ONLY) AT THE SIDEWALK LOCATIONS.
5. THE EXPOSED FACES OF EXISTING DECK AND BARRIERS TO BE CLEANED. APPLY AN APPROVED EPOXY BONDING COMPOUND TO THE SURFACES.
6. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF EXTRUSIONS AND HOOD PLATE.
7. CONTRACTOR TO VERIFY THAT THE BAR BENDING DIMENSIONS GIVEN ON THIS DRAWING WILL FIT WITH THE PROPOSED CONSTRUCTION PRIOR TO FABRICATING THESE BARS.
8. ALL NEW REINFORCEMENT SHOWN IS TO BE EPOXY COATED.
9. FOR NEOPRENE STRIP SEAL DETAILS NOT SHOWN, SEE BC-767M.
10. FOR COMPRESSION SEAL REQUIREMENTS, SEE PENNDOT PUBLICATION 408, SECTION 705.
11. PLACE EXPANSION DAM CONCRETE 1/4" LOW SO THAT THE LATEX MODIFIED CONCRETE OVERLAY MAY MATCH THE GRADE OF THE STRIP SEAL ARMOR.

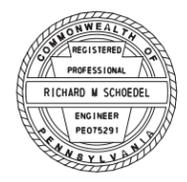
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| REFERENCES: | SHEET: |
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| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN 1-3 | 18-20 |
| 4. SECTIONS S21-S21 & S22-S22 | 25 |

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

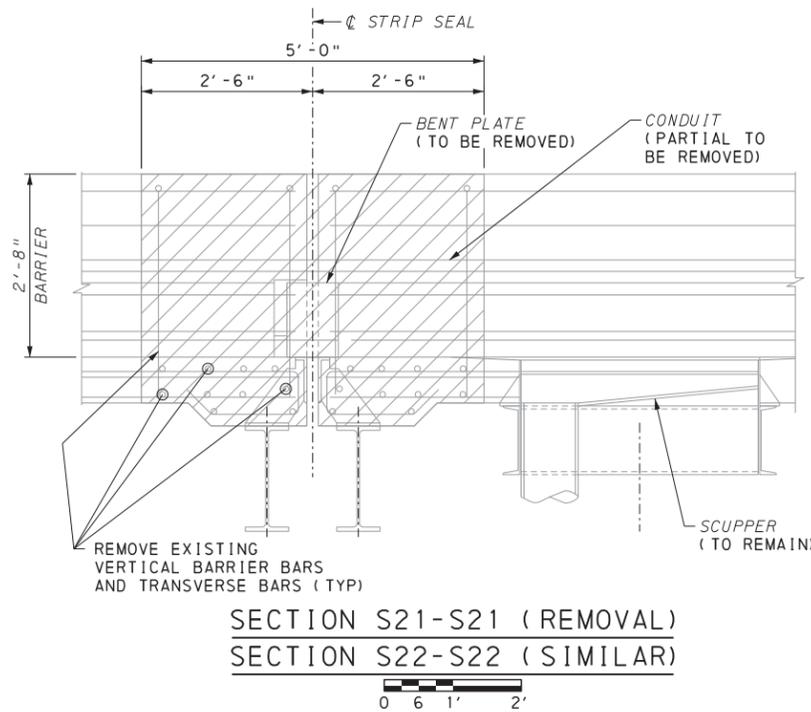
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
TYPICAL EXP DAM REPLACEMENT - 1



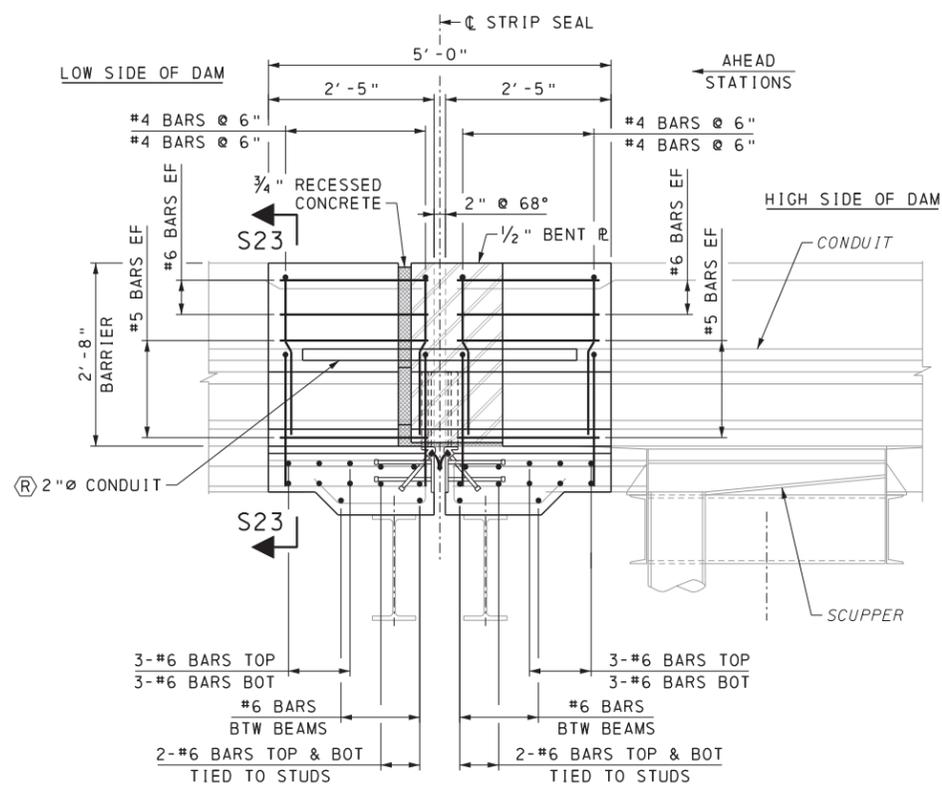
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| RECOMMENDED _____ | SHEET 24 OF 39 |
| | S - 38580 |

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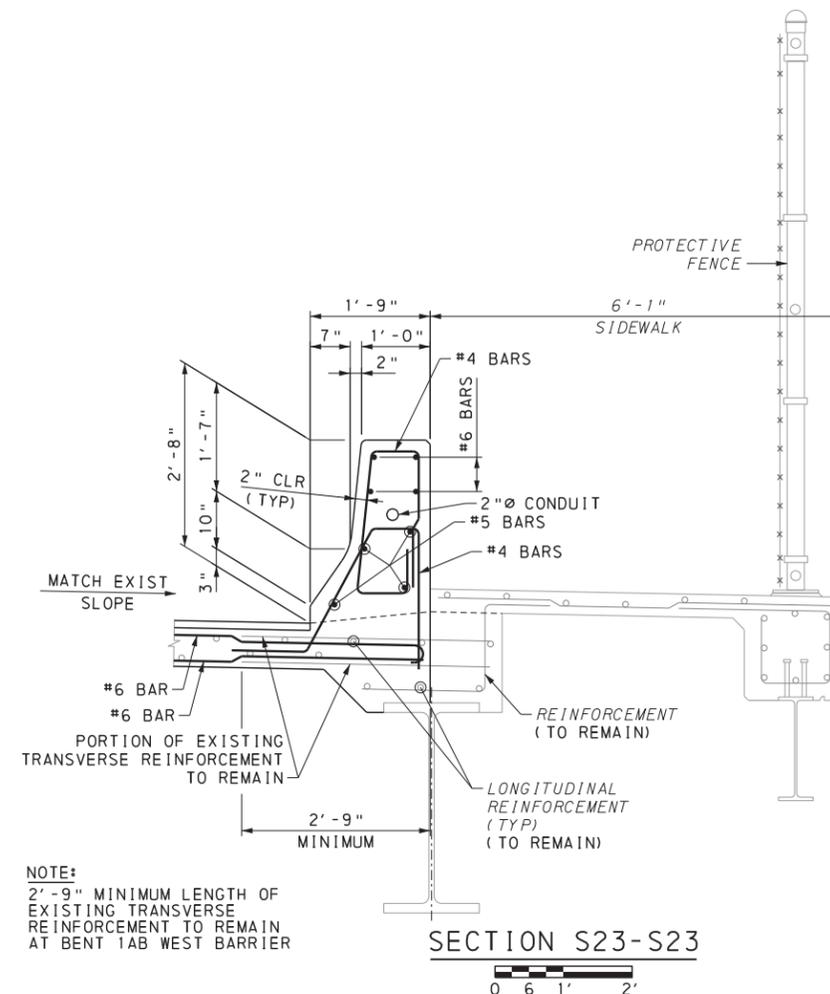


SECTION S21-S21 (REMOVAL)
SECTION S22-S22 (SIMILAR)



SECTION S21-S21 (PROPOSED)
SECTION S22-S22 (SIMILAR)

NOTE:
REPLACE EXISTING BEAM HAUNCH REINFORCEMENT
AS REQUIRED AT EXPANSION JOINT REPLACEMENT
BLOCKOUT



SECTION S23-S23

NOTE:
2'-9" MINIMUM LENGTH OF
EXISTING TRANSVERSE
REINFORCEMENT TO REMAIN
AT BENT 1AB WEST BARRIER

REFERENCES:

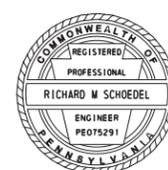
1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
2. GENERAL NOTES
3. DECK PLAN 1-3
4. LOCATION OF SECTIONS S21-S21 & S22-S22

SHEET:

- 1
- 4
- 24
- 18-20

LEGEND:

- INDICATES EXISTING CONCRETE TO BE REMOVED
- INDICATES NEW STEEL BENT SLIDING PLATE
- INDICATES RECESS FOR STEEL BENT SLIDING PLATE
- EF EACH FACE
- BTW BETWEEN



| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

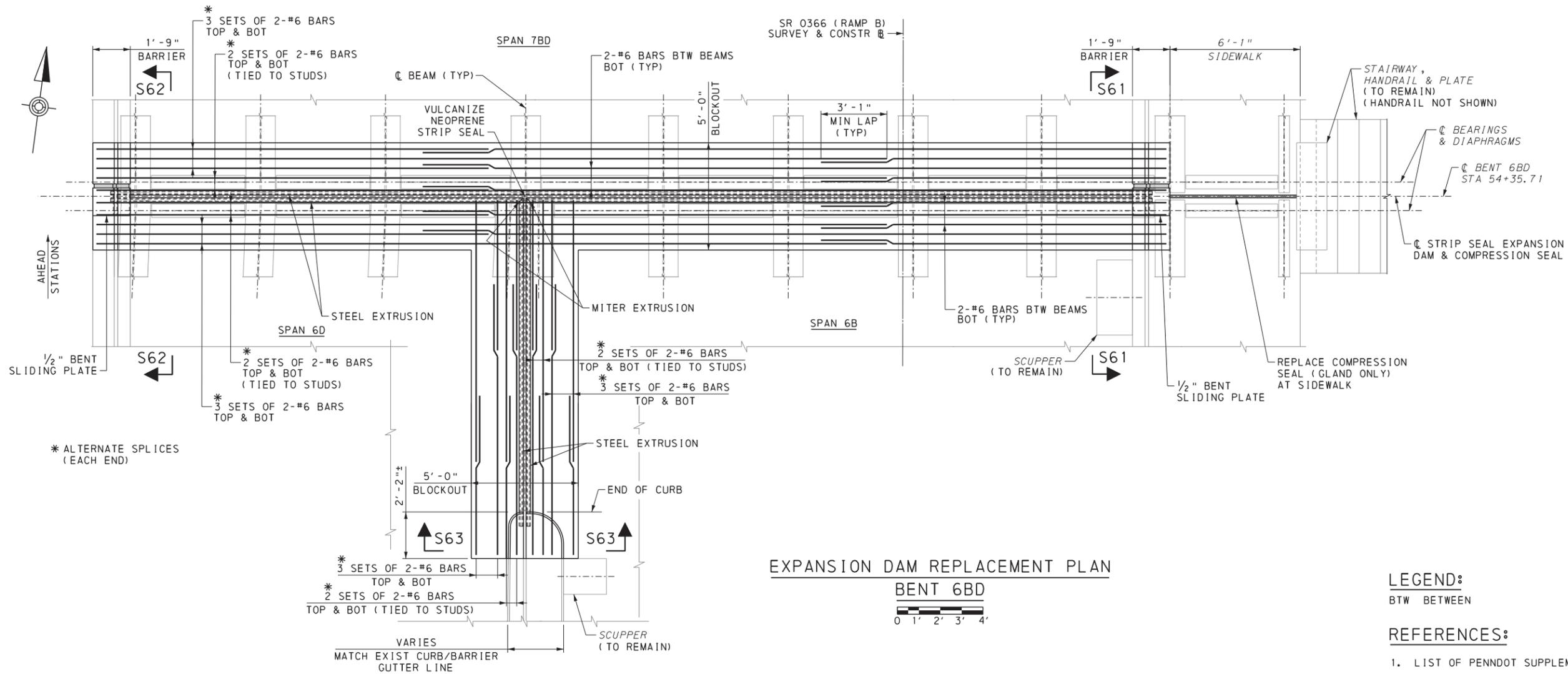
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
TYPICAL EXP DAM REPLACEMENT - 2

RECOMMENDED _____ SHEET 25 OF 39

S - 38580



EXPANSION DAM REPLACEMENT PLAN
BENT 6BD
 0' 1' 2' 3' 4'

EXPANSION DAM NOTES:

1. PROVIDE UNDERDECK PROTECTIVE SHIELDING (ITEM NO. 9000-0011) IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. SAWCUT, REMOVE AND DISCARD PORTIONS OF BARRIER AND DECK CONCRETE. REMOVE AND DISCARD EXISTING VERTICAL REINFORCEMENT IN BARRIERS AND EXISTING TRANSVERSE REINFORCEMENT IN DECK AS INDICATED ON PLANS. REMOVE AND DISCARD EXISTING EXPANSION DAM ASSEMBLY.
3. CONTRACTOR TO EXERCISE CAUTION DURING REMOVAL OF EXISTING CONCRETE, TRANSVERSE REINFORCEMENT IN DECK AND VERTICAL REINFORCEMENT IN BARRIERS. DO NOT DAMAGE EXISTING LONGITUDINAL REINFORCEMENT IN DECK AND BARRIERS TO REMAIN. ANY DAMAGE SUSTAINED TO THE PORTION OF BARRIERS, DECK, AND REINFORCEMENT DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. PRIOR TO PLACEMENT OF NEW CONCRETE, CONTRACTOR TO CLEAN EXISTING REINFORCEMENT AND PAINT WITH EPOXY PAINT. PLACE NEW TRANSVERSE REINFORCEMENT IN THE DECK AND VERTICAL REINFORCEMENT IN THE BARRIERS. INSTALL NEW NEOPRENE STRIP SEAL DAM ALONG THE DECK AND COMPRESSION SEAL (GLAND ONLY) AT THE SIDEWALK LOCATION.
5. THE EXPOSED FACES OF EXISTING DECK AND BARRIERS TO BE CLEANED. APPLY AN APPROVED EPOXY BONDING COMPOUND TO THE SURFACES.
6. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF EXTRUSIONS AND HOOD PLATE.
7. CONTRACTOR TO VERIFY THAT THE BAR BENDING DIMENSIONS GIVEN ON THIS DRAWING WILL FIT WITH THE PROPOSED CONSTRUCTION PRIOR TO FABRICATING THESE BARS.
8. ALL NEW REINFORCEMENT SHOWN IS TO BE EPOXY COATED.
9. FOR NEOPRENE STRIP SEAL DETAILS NOT SHOWN, SEE BC-767M. THE NEOPRENE STRIP SEAL IS TO BE SHOP VULCANIZED.
10. FOR COMPRESSION SEAL REQUIREMENTS, SEE PENNDOT PUBLICATION 408, SECTION 705.
11. PLACE EXPANSION DAM CONCRETE 1/4" LOW SO THAT THE LATEX MODIFIED CONCRETE OVERLAY MAY MATCH THE GRADE OF THE STRIP SEAL ARMOR.

LEGEND:

BTW BETWEEN

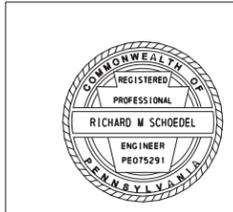
REFERENCES:

| REFERENCES: | SHEET: |
|--|--------|
| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 3 | 20 |
| 4. SECTIONS S61-S61, S62-S62 & S63-S63 | 27 |

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 6BD EXP DAM REPLACEMENT - 1

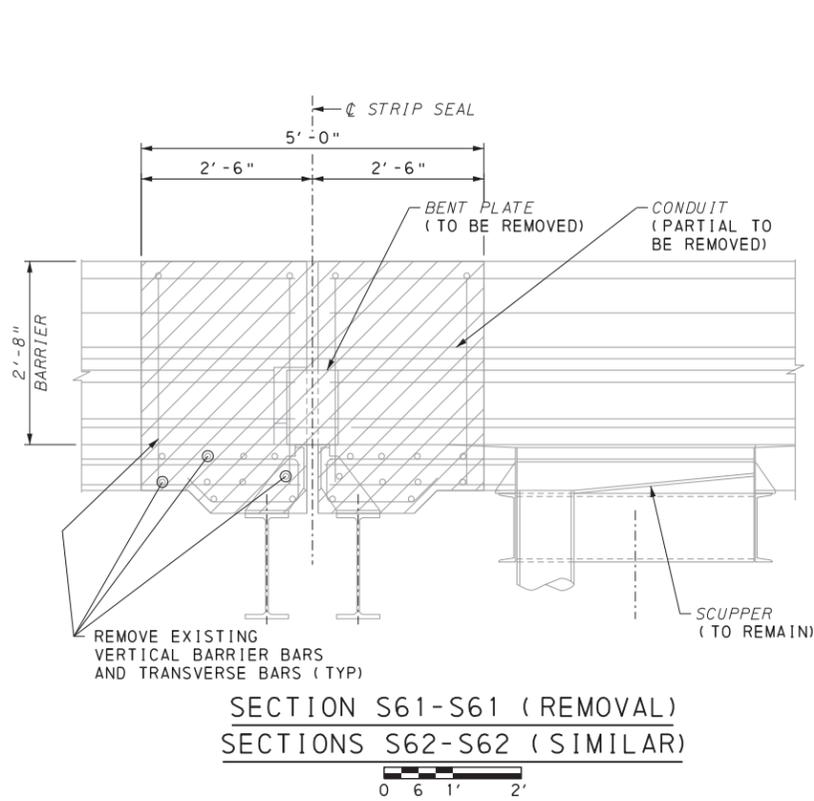


RECOMMENDED _____ SHEET 26 OF 39

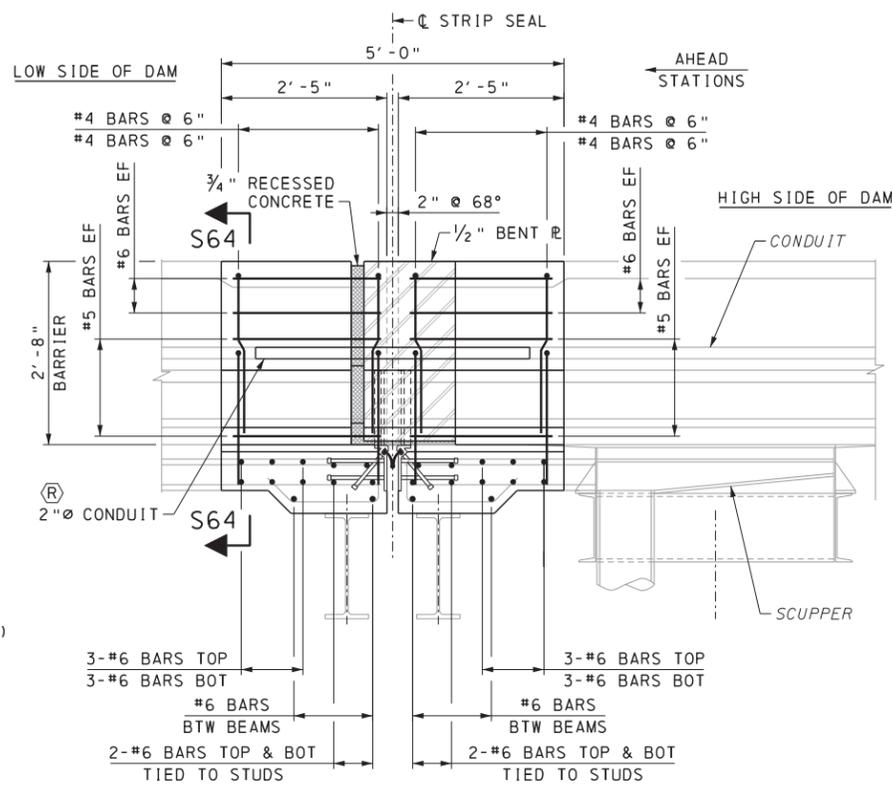
S - 38580

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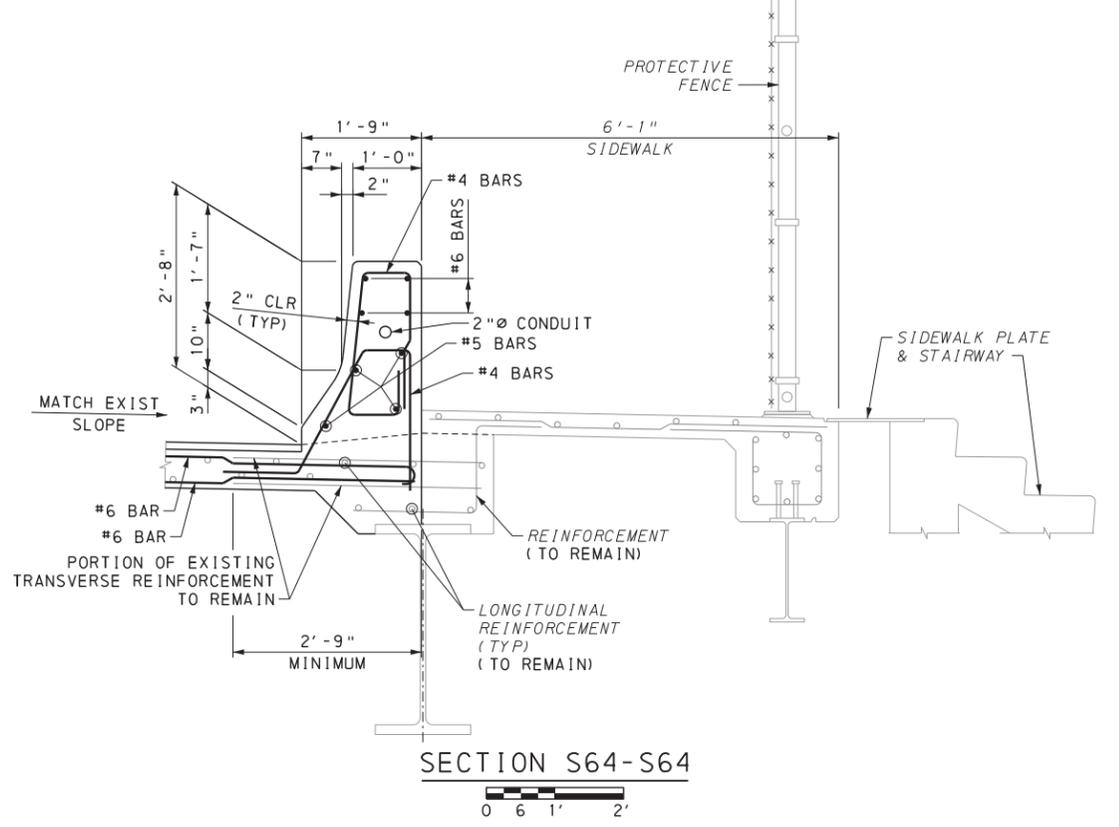
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SECTION S61-S61 (REMOVAL)
SECTIONS S62-S62 (SIMILAR)



SECTION S61-S61 (PROPOSED)
SECTION S62-S62 (SIMILAR)



SECTION S64-S64

LEGEND:

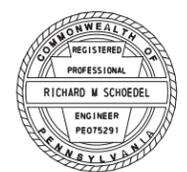
- INDICATES EXISTING CONCRETE TO BE REMOVED
- INDICATES NEW STEEL BENT SLIDING PLATE
- INDICATES RECESS FOR STEEL BENT SLIDING PLATE
- EF EACH FACE
- BTW BETWEEN

| Mark | Description | By | Chk'd | Recm'd | Date |
|-----------|-------------|----|-------|--------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 6BD EXP DAM REPLACEMENT - 2

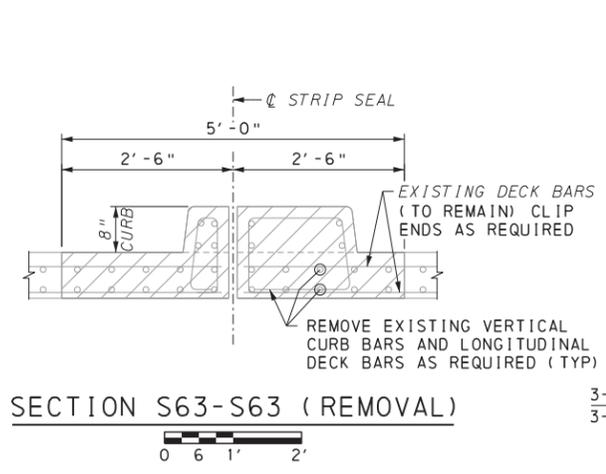


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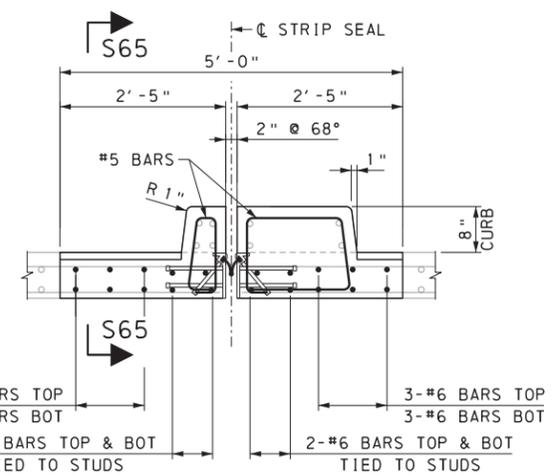
1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS 1
2. GENERAL NOTES 4
3. DECK PLAN - 3
4. LOCATION OF SECTIONS S61-S61 & S62-S62 26
5. LOCATION OF SECTION S63-S63 26

SHEET:

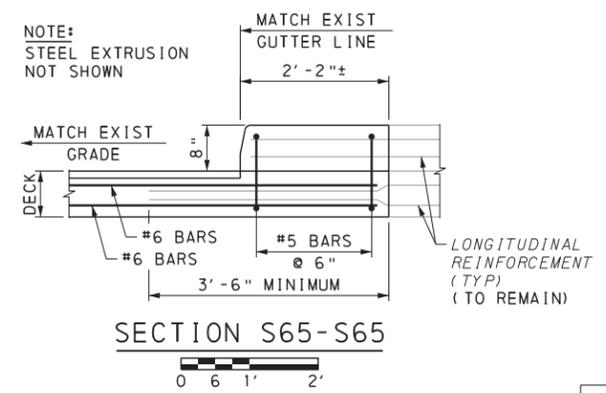
- 1
- 4
- 26
- 26



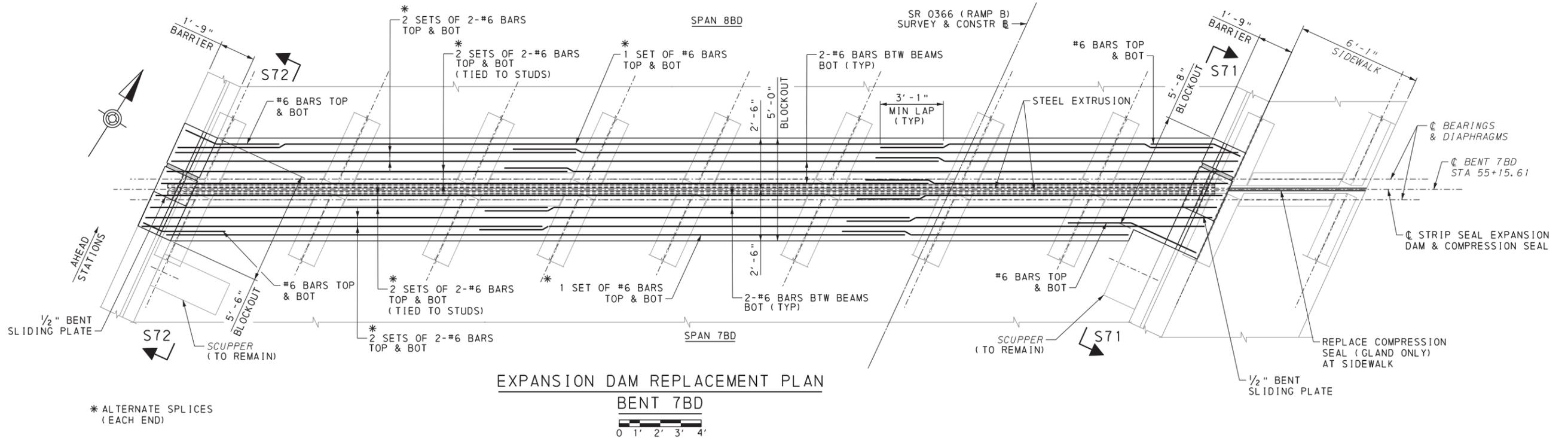
SECTION S63-S63 (REMOVAL)



SECTION S63-S63 (PROPOSED)



SECTION S65-S65



EXPANSION DAM REPLACEMENT PLAN

BENT 7BD



* ALTERNATE SPLICES (EACH END)

LEGEND:

BTW BETWEEN

REFERENCES:

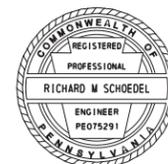
| REFERENCES: | SHEET: |
|--|--------|
| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 4 | 21 |
| 4. SECTIONS S71-S71 & S72-S72 | 29 |

EXPANSION DAM NOTES:

1. PROVIDE UNDERDECK PROTECTIVE SHIELDING (ITEM NO. 9000-0011) IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. SAWCUT, REMOVE AND DISCARD PORTIONS OF BARRIER AND DECK CONCRETE. REMOVE AND DISCARD EXISTING VERTICAL REINFORCEMENT IN BARRIERS AND EXISTING TRANSVERSE REINFORCEMENT IN DECK AS INDICATED ON PLANS. REMOVE AND DISCARD EXISTING EXPANSION DAM ASSEMBLY.
3. CONTRACTOR TO EXERCISE CAUTION DURING REMOVAL OF EXISTING CONCRETE, TRANSVERSE REINFORCEMENT IN DECK AND VERTICAL REINFORCEMENT IN BARRIERS. DO NOT DAMAGE EXISTING LONGITUDINAL REINFORCEMENT IN DECK AND BARRIERS TO REMAIN. ANY DAMAGE SUSTAINED TO THE PORTION OF BARRIERS, DECK, AND REINFORCEMENT DESIGNATED TO REMAIN SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. PRIOR TO PLACEMENT OF NEW CONCRETE, CONTRACTOR TO CLEAN EXISTING REINFORCEMENT AND PAINT WITH EPOXY PAINT. PLACE NEW TRANSVERSE REINFORCEMENT IN THE DECK AND VERTICAL REINFORCEMENT IN THE BARRIERS. INSTALL NEW NEOPRENE STRIP SEAL DAM ALONG THE DECK AND COMPRESSION SEAL (GLAND ONLY) AT THE SIDEWALK LOCATION.
5. THE EXPOSED FACES OF EXISTING DECK AND BARRIERS TO BE CLEANED. APPLY AN APPROVED EPOXY BONDING COMPOUND TO THE SURFACES.
6. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF EXTRUSIONS AND HOOD PLATE.
7. CONTRACTOR TO VERIFY THAT THE BAR BENDING DIMENSIONS GIVEN ON THIS DRAWING WILL FIT WITH THE PROPOSED CONSTRUCTION PRIOR TO FABRICATING THESE BARS.
8. ALL NEW REINFORCEMENT SHOWN IS TO BE EPOXY COATED.
9. FOR NEOPRENE STRIP SEAL DETAILS NOT SHOWN, SEE BC-767M.
10. FOR COMPRESSION SEAL REQUIREMENTS, SEE PENNDOT PUBLICATION 408, SECTION 705.
11. PLACE EXPANSION DAM CONCRETE 1 1/4" LOW SO THAT THE LATEX MODIFIED CONCRETE OVERLAY MAY MATCH THE GRADE OF THE STRIP SEAL ARMOR.

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109



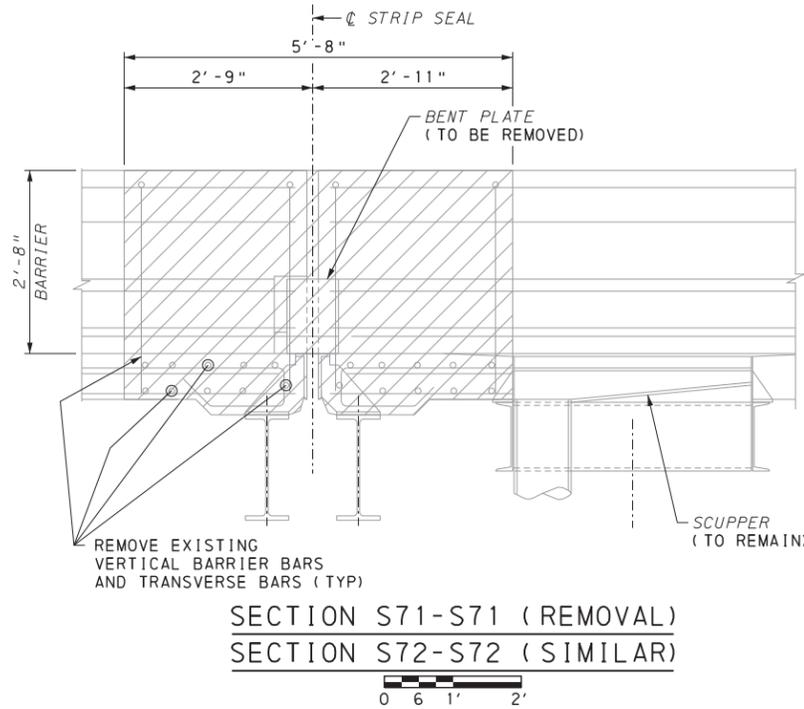
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 7BD EXP DAM REPLACEMENT - 1**

RECOMMENDED _____ SHEET 28 OF 39

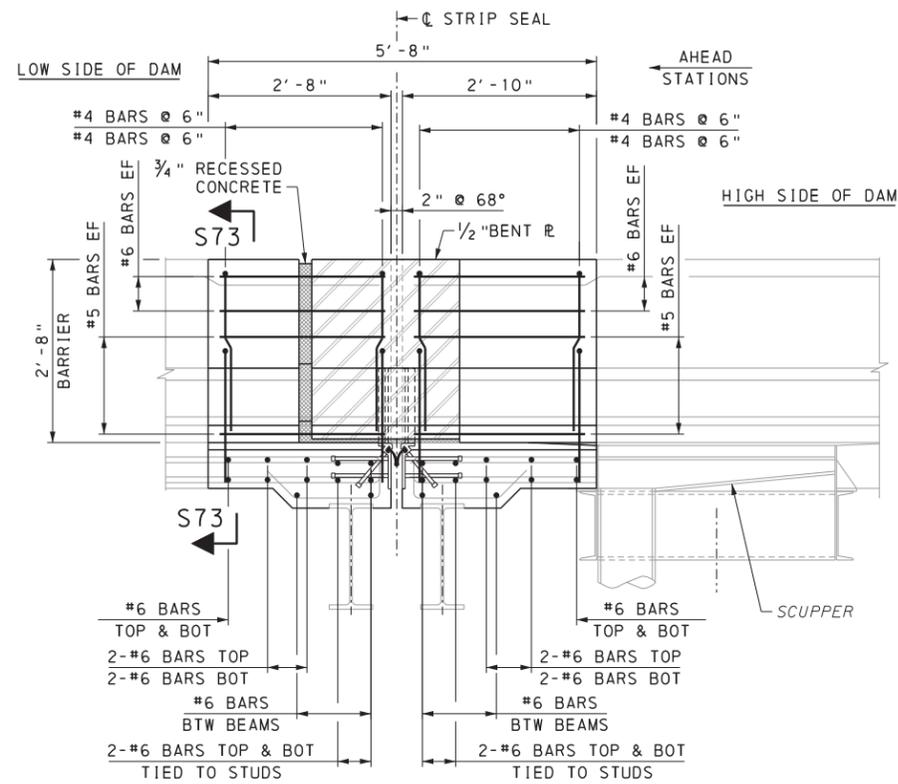
S - 38580

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SECTION S71-S71 (REMOVAL)
SECTION S72-S72 (SIMILAR)

0 6 1' 2'



SECTION S71-S71 (PROPOSED)
SECTION S72-S72 (SIMILAR)

0 6 1' 2'

NOTE:
REPLACE EXISTING BEAM HAUNCH REINFORCEMENT
AS REQUIRED AT EXPANSION JOINT REPLACEMENT
BLOCKOUT

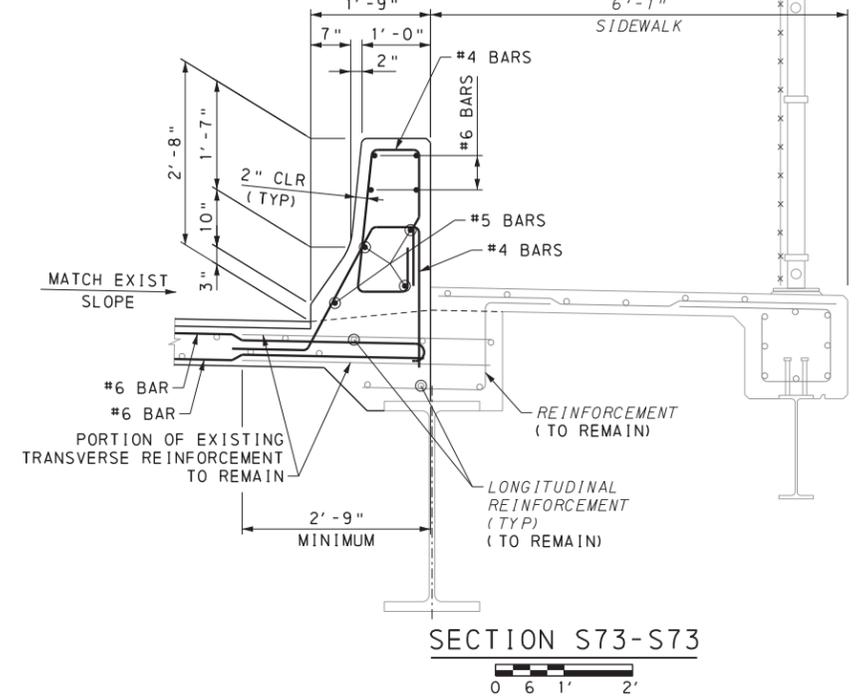
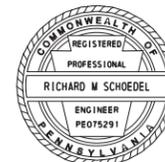
REFERENCES:

- | | |
|---|----|
| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 4 | 21 |
| 4. LOCATION OF SECTIONS S71-S71 & S72-S72 | 28 |

SHEET:

LEGEND:

- | | |
|-----|---|
| | INDICATES EXISTING CONCRETE TO BE REMOVED |
| | INDICATES NEW STEEL BENT SLIDING PLATE |
| | INDICATES RECESS FOR STEEL BENT SLIDING PLATE |
| EF | EACH FACE |
| BTW | BETWEEN |



SECTION S73-S73

0 6 1' 2'

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

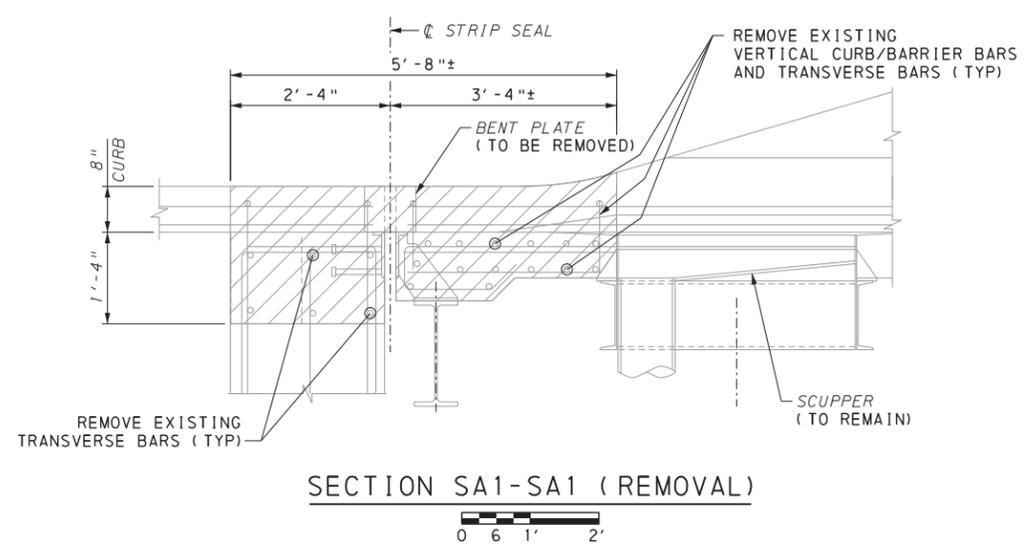
SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

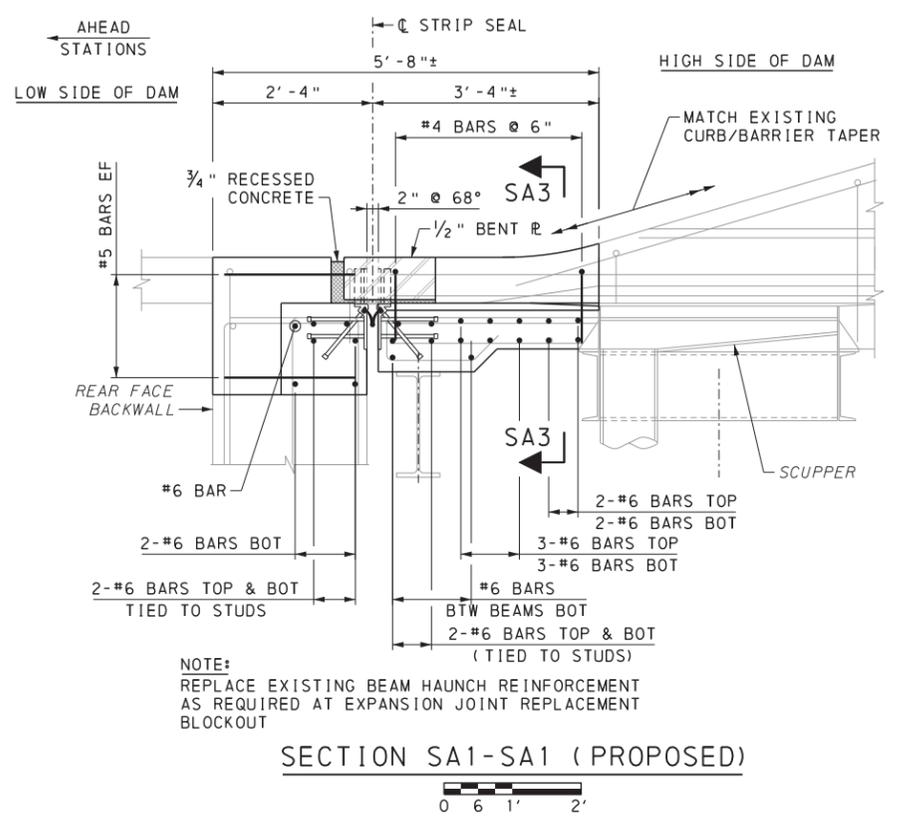
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BENT 7BD EXP DAM REPLACEMENT - 2**

| | |
|-------------------|----------------|
| RECOMMENDED _____ | SHEET 29 OF 39 |
| S - 38580 | |

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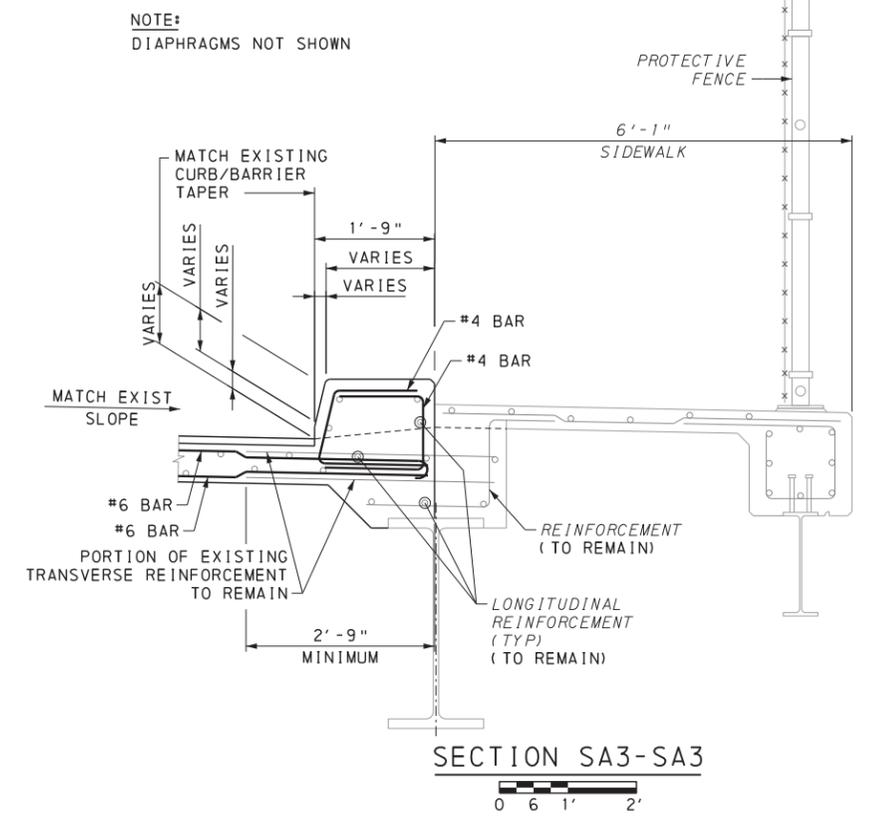


SECTION SA1-SA1 (REMOVAL)



SECTION SA1-SA1 (PROPOSED)

NOTE:
REPLACE EXISTING BEAM HAUNCH REINFORCEMENT AS REQUIRED AT EXPANSION JOINT REPLACEMENT BLOCKOUT



SECTION SA3-SA3

NOTE:
DIAPHRAGMS NOT SHOWN

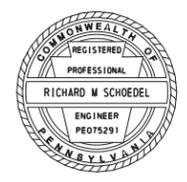
REFERENCES:

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| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 4 | 21 |
| 4. LOCATION OF SECTION SA1-SA1 | 30 |

SHEET:

LEGEND:

- INDICATES EXISTING CONCRETE TO BE REMOVED
- INDICATES NEW STEEL BENT SLIDING PLATE
- INDICATES RECESS FOR STEEL BENT SLIDING PLATE
- EF EACH FACE
- BTW BETWEEN



| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

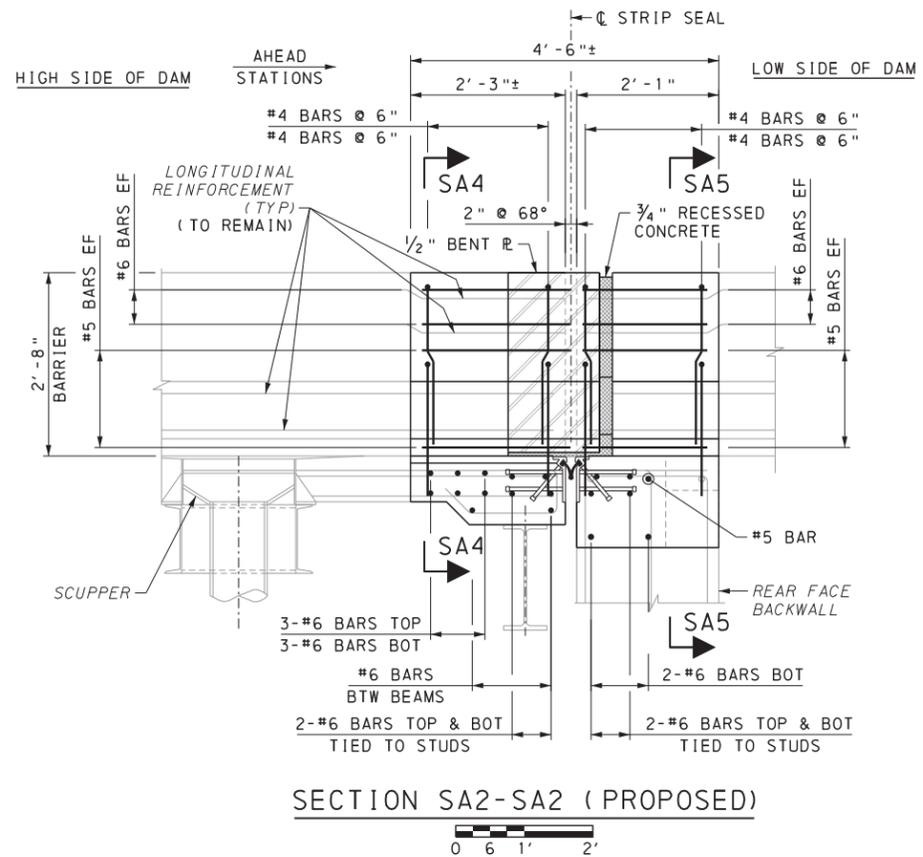
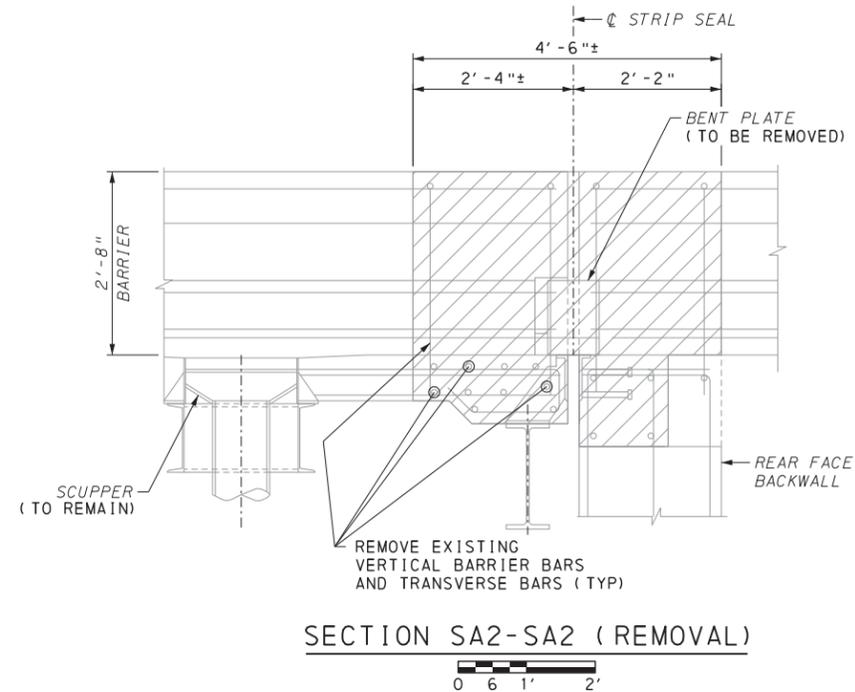
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
ABUT BD EXP DAM REPLACEMENT - 2**

RECOMMENDED _____ SHEET 31 OF 39

S - 38580

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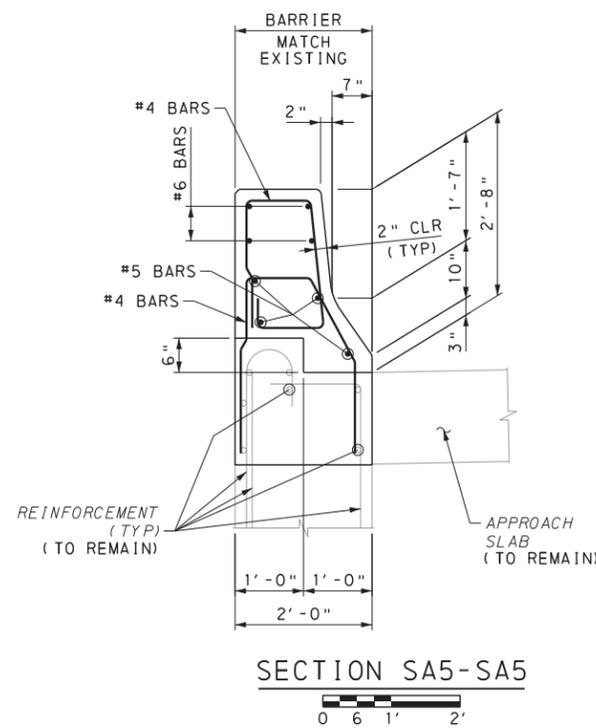
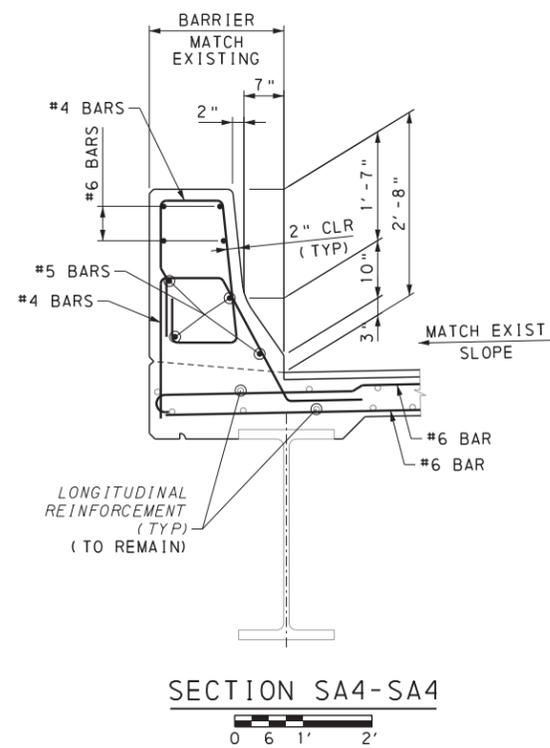
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| 1. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 2. GENERAL NOTES | 4 |
| 3. DECK PLAN - 4 | 21 |
| 4. LOCATION OF SECTIONS SA2-SA2 | 30 |

SHEET:

- | |
|----|
| 1 |
| 4 |
| 21 |
| 30 |

LEGEND:

- INDICATES EXISTING CONCRETE TO BE REMOVED
- INDICATES NEW STEEL BENT SLIDING PLATE
- INDICATES RECESS FOR STEEL BENT SLIDING PLATE
- EF EACH FACE
- BTW BETWEEN

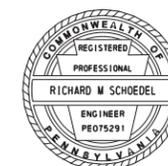


| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
 BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
 SR 0366 SECTION A06
 SEGMENT 0033 OFFSET 0890
 SR 0366 STA 52+83.72
 OVER NORFOLK SOUTHERN RAILROAD,
 4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
 ABUT BD EXP DAM REPLACEMENT - 3**



RECOMMENDED _____

SHEET 32 OF 39

S - 38580



REMOVE ABANDONED CONNECTION
ANGLE BRACKETS (ITEM 9000-0003) ②

SPOT MAINTENANCE PAINTING
(ITEM 9071-0004) ①

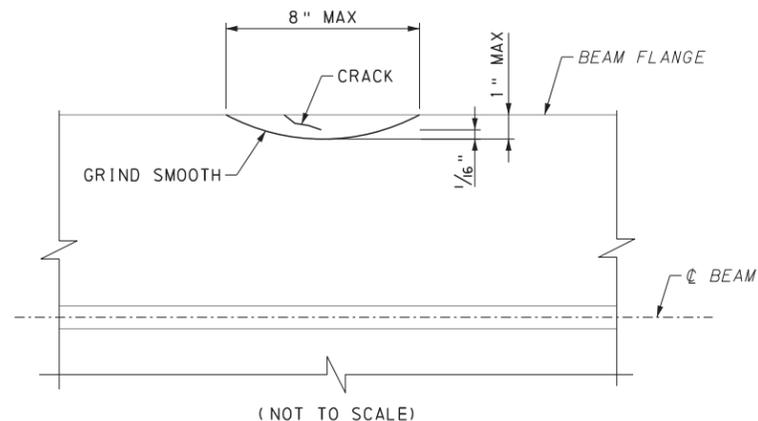
TYPICAL BEAM 1B, EAST FACE, ALL SPANS
(81 LOCATIONS)



FLANGE LAP REPAIR
(ITEM 9000-0005) ②

SPOT MAINTENANCE PAINTING
(ITEM 9071-0004) ①

SPAN 7BD, BEAM 2B (2 LOCATIONS)
BOTTOM LEFT FLANGE, NS, SECOND DIAPHRAGM LOCATION
BOTTOM RIGHT FLANGE, FS, SECOND DIAPHRAGM LOCATION
(NOT TO SCALE)



LEGEND:

FS FAR SIDE
NS NEAR SIDE
① SCOPE OF WORK ITEM

REFERENCES:

1. GENERAL PLAN
2. SCOPE OF WORK
3. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
4. GENERAL ELEVATION & INDEX OF DRAWINGS
5. TYP SECTION & LOAD RATINGS
6. GENERAL NOTES
7. ABUTMENT BD REPAIRS
8. DECK PLAN 1 - 4

SHEET:

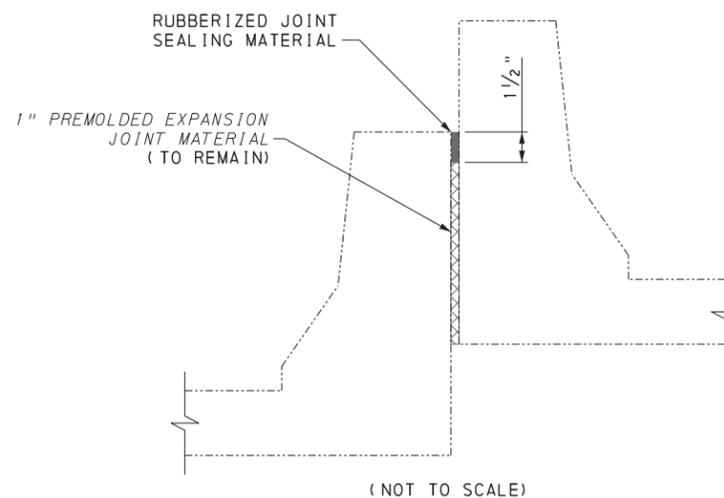
- 1
- 1
- 1
- 2
- 3
- 4
- 16
- 18-21



REPLACE MATERIAL AT WINGWALL
EXPANSION JOINT (ITEM 9000-0016) ⑬

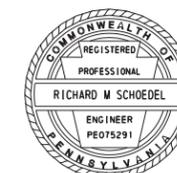


REPLACE LONGITUDINAL JOINT
IN SPAN 6BD (ITEM 9000-0007) ⑰



| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 11



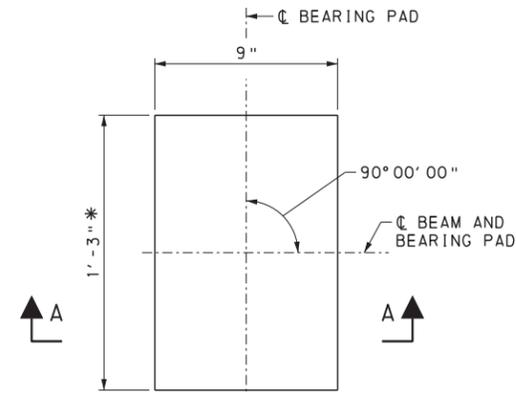
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
MISCELLANEOUS REPAIRS

RECOMMENDED _____ SHEET 33 OF _____

S - 38580

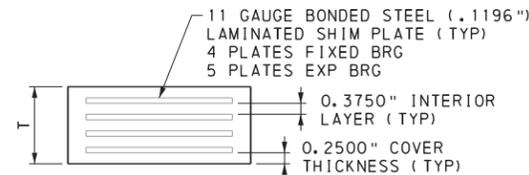
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10/24/2019 7:13:44 AM N:\sr_0366_Torontum\deliverables\structures\fig\sr_0366_bearing_details.dgn



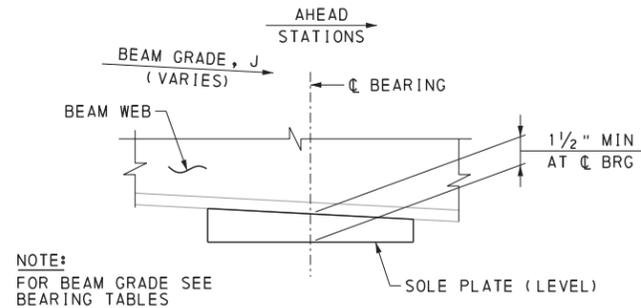
NOTE:
* 1'-0" AT FIXED BEARING BENT 6BD, SPAN 6D
BEAM 4D AND SPAN 6B BEAM 4B ONLY

**PLAN - FIXED AND EXPANSION
BEARINGS**
(NOT TO SCALE)



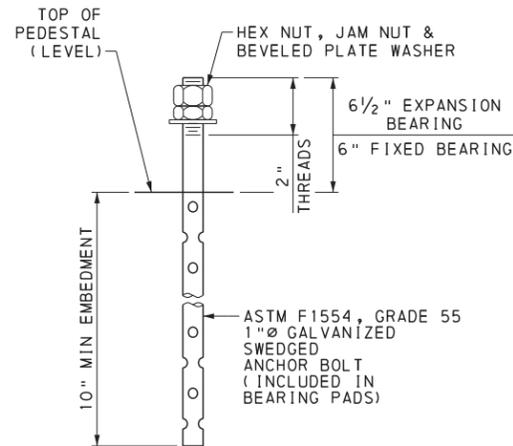
T=2.1034" FIXED BRG
T=2.5980" EXP BRG

**SECTION A-A
ELASTOMERIC BEARING PAD**
(NOT TO SCALE)



NOTE:
FOR BEAM GRADE SEE
BEARING TABLES

SOLE PLATE BEVEL DETAIL
(NOT TO SCALE)



SWEDGED ANCHOR BOLT
(NOT TO SCALE)

NOTES:

1. ADJUST FINAL PEDESTAL ELEVATIONS AS REQUIRED SO THAT GIRDER ELEVATIONS DO NOT CHANGE AFTER INSTALLATION OF NEW BEARINGS.
2. MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB 408/2016) SECTION 1113.
3. MATERIAL SPECIFICATIONS FOR ELASTOMERIC BEARINGS WILL MEET THE REQUIREMENTS OF CURRENT AASHTO AS LISTED UNDER SUBSECTION "MATERIALS AND TESTING".
4. FABRICATOR MAY USE CONTRACT DRAWINGS TO FABRICATE THE ELASTOMERIC PADS.
5. PROVIDE HOT DIPPED GALVANIZED ANCHOR BOLTS, WASHER AND NUTS.
6. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 36 (ASTM A709, GRADE 36) UNLESS NOTED OTHERWISE.
7. FOR BEAM NUMBER REFERENCE SEE ORIGINAL DESIGN PLANS S-1539 AND REHABILITATION PLANS S-15738.
8. DESIGN TOLERANCE ABOUT TRANSVERSE AXIS IS 0.003 RADIANS AND LONGITUDINAL AXIS IS 0 RADIANS, ROTATION DUE TO BEAM SLOPE CONSIDERED IN DESIGN OF LAMINATED ELASTOMERIC PAD.
9. USE RAW ELASTOMERIC NEOPRENE WITH A DUROMETER HARDNESS OF 50(+/-) 5.
10. SMOOTH CUT AND DEBUR METAL SHIMS. VULCANIZE PATCH PIN GROOVES.
11. JACKING LOADS ARE SERVICE DEAD LOADS (UNFACTORED). FUTURE WEARING SURFACE (30 PSF) IS INCLUDED. DL=59.0 K LL+IMPACT=33.25 K.
12. WORK THIS SHEET WITH BEARING DETAILS - 2, BEARING PEDESTALS AND BEARING TABLES.
13. LOCATE EXISTING LONGITUDINAL PIER CAP AND BENT CAP REINFORCING BARS IN THE FIELD. NO EXISTING LONGITUDINAL REINFORCEMENT BARS WILL BE CUT FOR THE INSTALLATION OF VERTICAL PEDESTAL REINFORCEMENT OR ANCHOR BOLTS.
14. ADJUST THE LOCATION OF PEDESTAL REINFORCING BARS AS NECESSARY TO AVOID INTERFERENCE WITH THE LONGITUDINAL REINFORCING BARS IN THE SUBSTRUCTURE CAP.

| Mark | Description | By | Chk'd. | Recm'd. | Date |
|-----------|-------------|----|--------|---------|------|
| REVISIONS | | | | | |

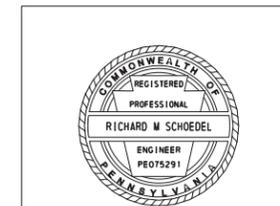
SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING DETAILS - 1**

RECOMMENDED _____ SHEET 34 OF 39

S - 38580



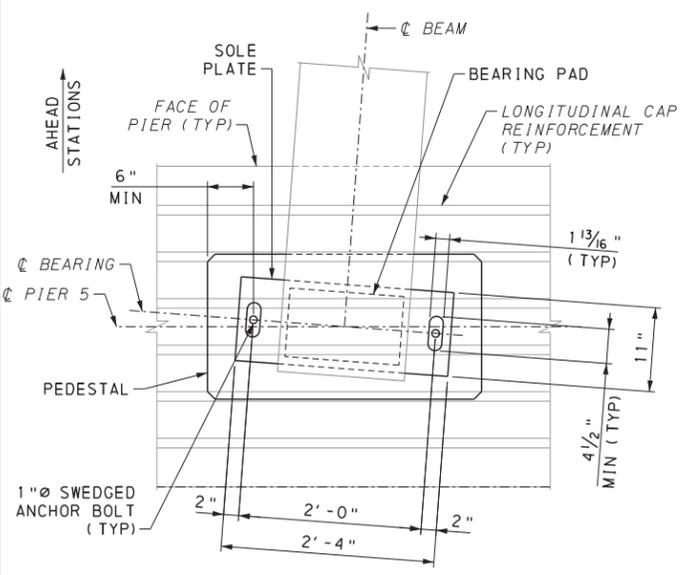
REFERENCES:

1. GENERAL PLAN
2. SCOPE OF WORK
3. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS
4. GENERAL ELEVATION & INDEX OF DRAWINGS
5. TYP SECTION & LOAD RATINGS
6. GENERAL NOTES
7. SUMMARY OF QUANTITIES
8. SUBSTRUCTURE REPAIRS
9. BEARING DETAILS - 2
10. BEARING PEDESTALS
11. BEARING TABLES

SHEET:

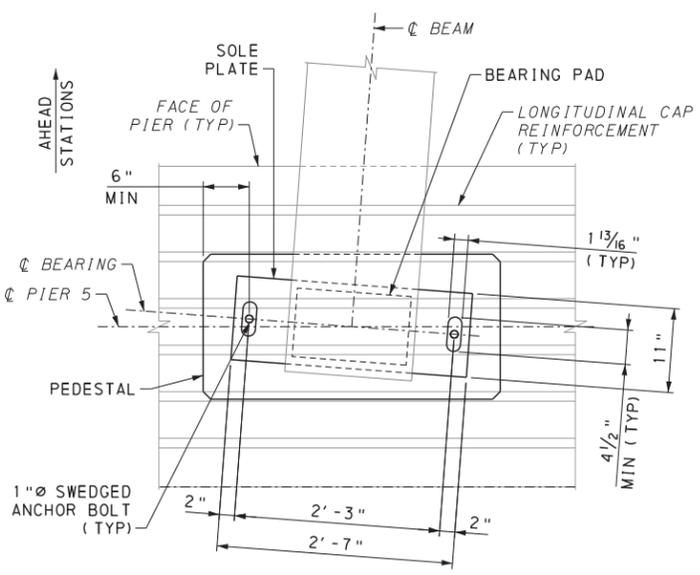
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- 7-16
- 35
- 36
- 37

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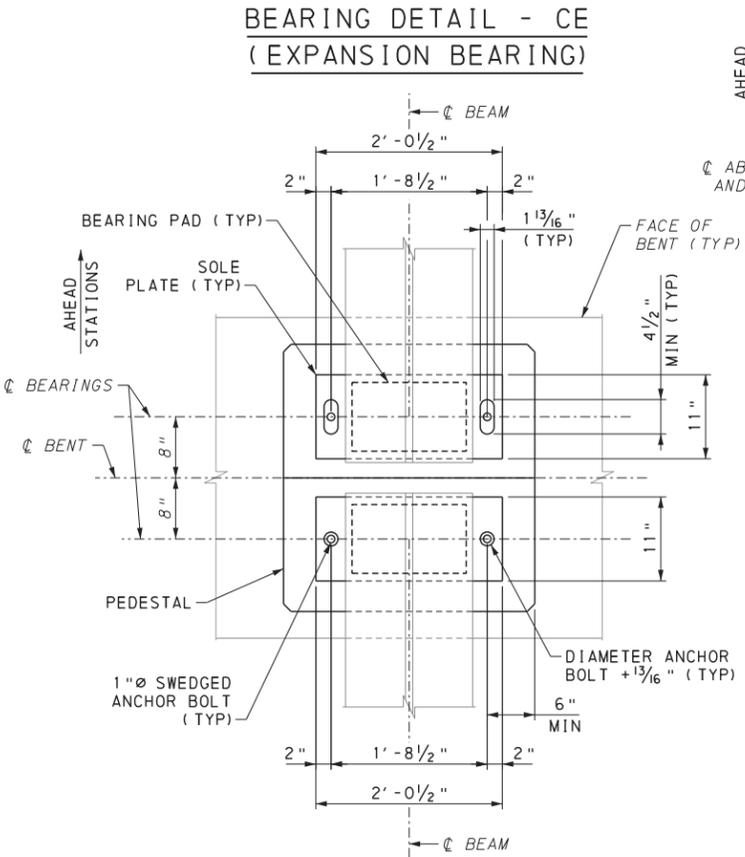
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(EXPANSION BEARING)

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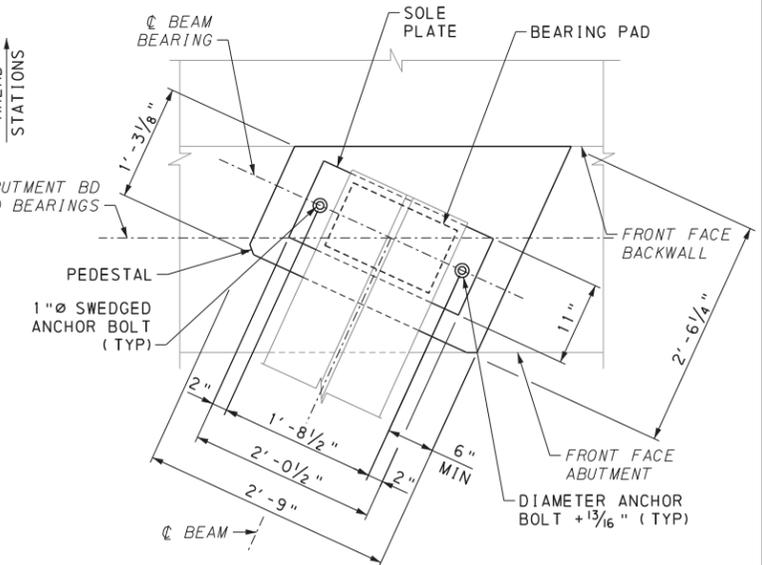
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(EXPANSION BEARING)

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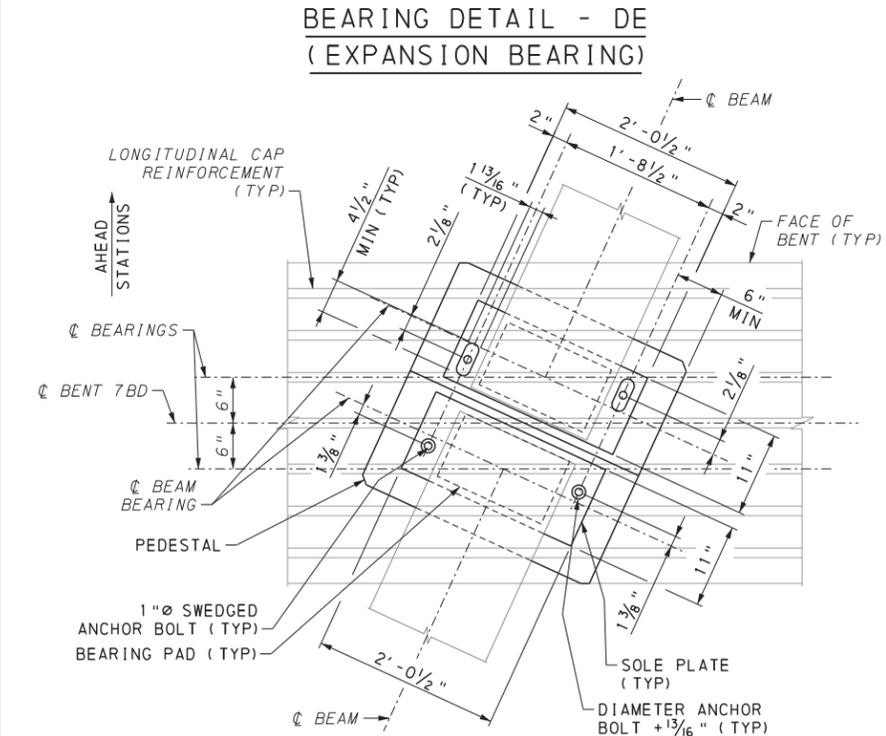
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(EXPANSION BEARING)

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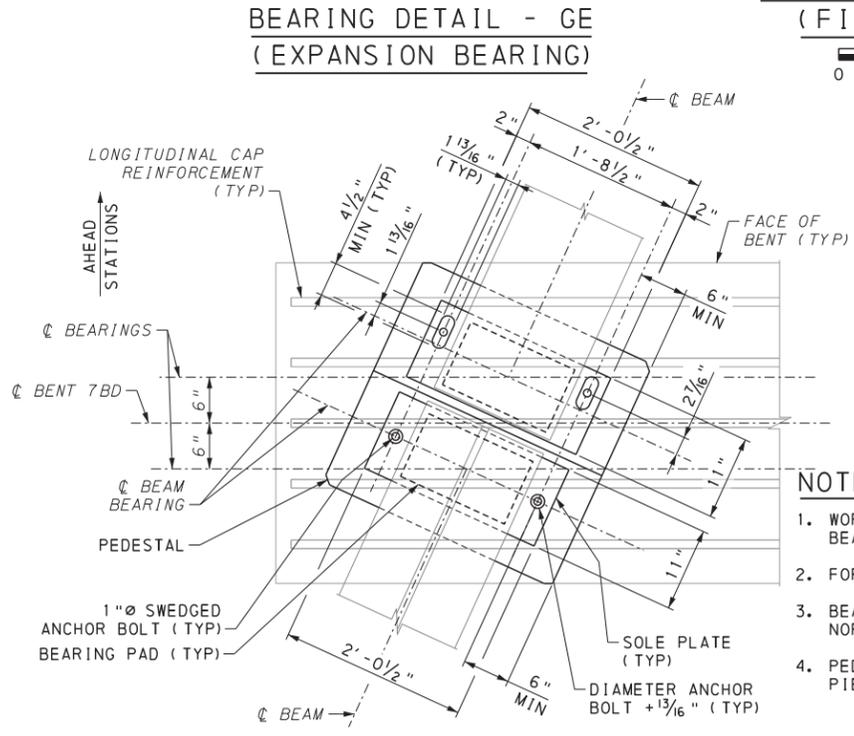


BEARING DETAIL - CF
@ ABUTMENT
(FIXED BEARING)

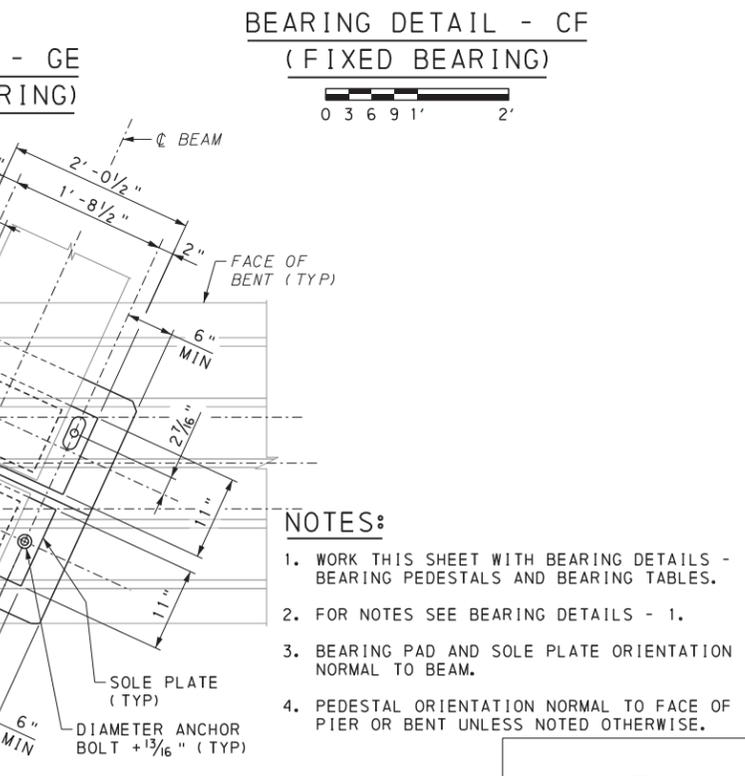
0 3 6 9 1' 2'



BEARING DETAIL - DE
(EXPANSION BEARING)



BEARING DETAIL - GE
(EXPANSION BEARING)



BEARING DETAIL - CF
(FIXED BEARING)

0 3 6 9 1' 2'



BEARING DETAIL - DF
(FIXED BEARING)

0 3 6 9 1' 2'



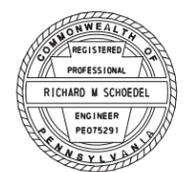
BEARING DETAIL - CF
(FIXED BEARING)

0 3 6 9 1' 2'

| REFERENCES: | SHEET: |
|--|--------|
| 1. GENERAL PLAN | 1 |
| 2. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 4. TYP SECTION & LOAD RATINGS | 3 |
| 5. GENERAL NOTES | 4 |
| 6. SUMMARY OF QUANTITIES | 5-6 |
| 7. SUBSTRUCTURE REPAIRS | 7-16 |
| 8. BEARING DETAILS - 1 | 34 |
| 9. BEARING PEDESTALS | 36 |
| 10. BEARING TABLES | 37 |

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

- NOTES:**
1. WORK THIS SHEET WITH BEARING DETAILS - 1, BEARING PEDESTALS AND BEARING TABLES.
 2. FOR NOTES SEE BEARING DETAILS - 1.
 3. BEARING PAD AND SOLE PLATE ORIENTATION NORMAL TO BEAM.
 4. PEDESTAL ORIENTATION NORMAL TO FACE OF PIER OR BENT UNLESS NOTED OTHERWISE.



SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

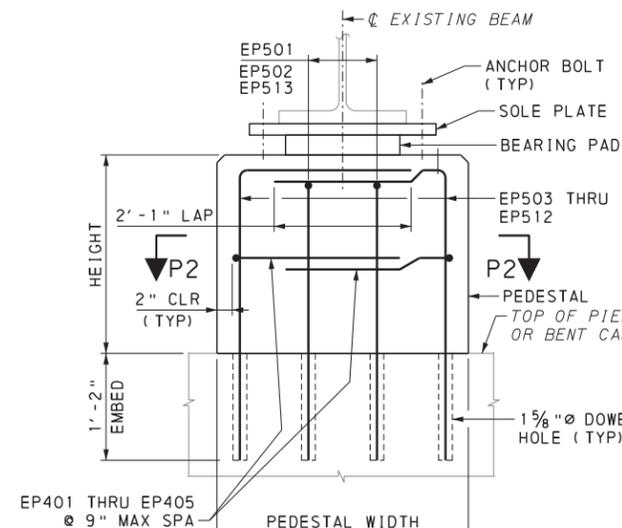
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING DETAILS - 2

RECOMMENDED _____ SHEET 35 OF 39

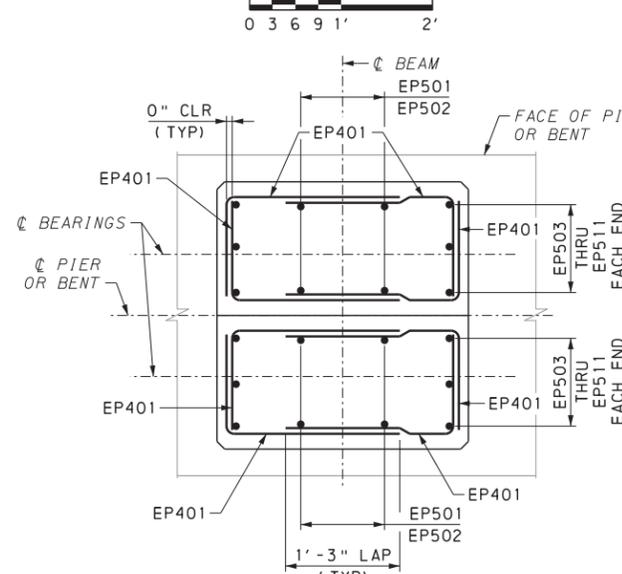
S - 38580

PEDESTAL REINFORCING BAR SCHEDULE

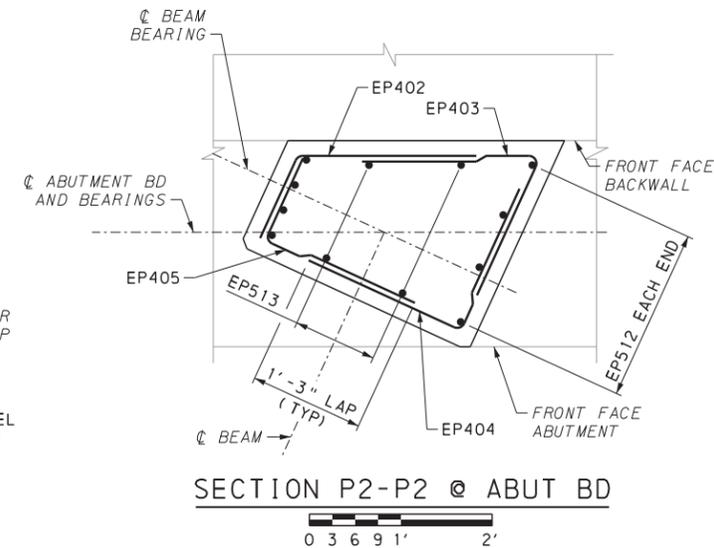
| MARK | SIZE | NUMBER | LENGTH | TYPE | A | B | C | REMARKS | LOCATIONS |
|-------|------|--------|-----------------------|------|----------------------|--------|---------|---|---|
| EP401 | 4 | 376 | 3'-3" | 10 | 1'-3" | 2'-0" | | | PIER 5: SPAN 1AB BEAMS 1A-6A BENT 1AB: SPAN 1AB BEAMS G3, 1A-6A, 3B-1B, G2 BENT 1AB: SPAN 2B BEAMS 4B-1B, G5 BENT 2B: SPAN 2B BEAMS 4B-1B, G5 BENT 2B: SPAN 3B BEAMS 4B-1B, G8 BENT 3B: SPAN 3B BEAMS 4B-1B, G8 BENT 3B: SPAN 4B BEAMS 4B-1B, G10 BENT 4B: SPAN 4B BEAMS 4B-1B, G10 BENT 4B: SPAN 5B BEAMS 4B-1B, G12 BENT 5B: SPAN 5B BEAMS 4B-1B, G12 BENT 5B: SPAN 6B BEAMS 4B-1B, G14 BENT 6BD: SPAN 6B BEAMS 3B-1B, G14 & G13 BENT 6BD: SPAN 7BD BEAMS 1D-3D, 3B-1B, G17 & G16 BENT 7BD: SPAN 7BD BEAM G16 BENT 7BD: SPAN 8BD BEAM G19 |
| EP402 | 4 | 10 | 3'-0" | 11 | 2'-0" | 1'-0" | 10 3/4" | | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20 - G18 |
| EP403 | 4 | 10 | 3'-9" | 102 | 2'-0" | 1'-9" | 8 3/8" | | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20 - G18 |
| EP404 | 4 | 10 | 3'-7" | 10 | 1'-9" | 1'-10" | | | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20 - G18 |
| EP405 | 4 | 10 | 2'-10" | 10 | 1'-10" | 1'-0" | | | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20 - G18 |
| EP501 | 5 | 360 | 4'-8" | 10 | 3'-5" | 1'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | PIER 5: SPAN 1AB BEAMS G3, 1A-6A, 3B-1B BENT 1AB: SPAN 1AB BEAMS G3, 1A-6A, 3B-1B, G2 & G1 BENT 1AB: SPAN 2B BEAMS 4B-1B, G5 & G4 BENT 2B: SPAN 2B BEAMS 4B-1B, G5 & G4 BENT 2B: SPAN 3B BEAMS 4B-1B, G8 & G7 BENT 3B: SPAN 3B BEAMS 4B-1B, G8 & G7 BENT 3B: SPAN 4B BEAMS 4B-1B, G10 & G9 BENT 4B: SPAN 4B BEAMS 4B-1B, G10 & G9 BENT 4B: SPAN 5B BEAMS 4B-1B, G12 & G11 BENT 5B: SPAN 5B BEAMS 4B-1B, G12 & G11 BENT 5B: SPAN 6B BEAMS 4B-1B, G14 & G13 BENT 6BD: SPAN 6B BEAMS 3B-1B, G14 & G13 BENT 6BD: SPAN 7BD BEAMS 1D-3D, 3B-1B, G17 & G16 |
| EP502 | 5 | 80 | 3'-5" | 10 | 2'-5" | 1'-0" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 7BD: SPAN 7BD BEAMS 1D-3D, 4B-1B, G17-G16 BENT 7BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20-G18 |
| EP503 | 5 | 60 | 4'-9" | 10 | 2'-4" | 2'-5" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | PIER 5: SPAN 1AB BEAMS G3, 1A-6A, 3B-1B |
| EP504 | 5 | 72 | 5'-8" | 10 | 3'-5" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 1AB: SPAN 1AB BEAMS G3, 1A-6A, 3B-1B, G2 & G1 |
| EP505 | 5 | 144 | 5'-2" | 10 | 2'-11" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 1AB: SPAN 2B BEAMS 4B-1B, G5 & G4 BENT 2B: SPAN 2B BEAMS 4B-1B, G5 & G4 BENT 3B: SPAN 3B BEAMS 4B-1B, G8 & G7 BENT 3B: SPAN 4B BEAMS 4B-1B, G10 & G9 |
| EP506 | 5 | 36 | 5'-1" | 10 | 2'-10" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 2B: SPAN 3B BEAMS 4B-1B, G8 & G7 |
| EP507 | 5 | 66 | 4'-10" | 10 | 2'-7" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 4B: SPAN 4B BEAMS 4B-1B, G10 & G9 BENT 6BD: SPAN 6B BEAMS 3B-1B, G14 & G13 |
| EP508 | 5 | 90 | 4'-9" | 10 | 2'-6" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 4B: SPAN 5B BEAMS 4B-1B, G12 & G11 BENT 6BD: SPAN 7BD BEAMS 1D-3D, 3B-1B, G17-G15 |
| EP509 | 5 | 36 | 4'-6" | 10 | 2'-3" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 5B: SPAN 5B BEAMS 4B-1B, G12 & G11 |
| EP510 | 5 | 36 | 4'-4" | 10 | 2'-1" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 5B: SPAN 6B BEAMS 4B-1B, G14 & G13 |
| EP511 | 5 | 120 | 4'-8" | 10 | 2'-5" | 2'-3" | | FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | BENT 7BD: SPAN 7BD BEAMS 1D-3D, 4B-1B, G17-G16 BENT 7BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20-G18 |
| EP512 | 5 | 80 | 4'-11" | 10 | 2'-8" | 1'-11" | | FIELD CUT "A" & "B" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20-G18 |
| EP513 | 5 | 40 | 3'-9" to 4'-11" | 10 | 2'-8" to 2'-3" | | | 10 SETS OF 4 BARS, VARY EACH SET "B" BY 5", FIELD CUT "A" AS REQUIRED TO ACHIEVE CORRECT PEDESTAL HEIGHTS | ABUT BD: SPAN 8BD BEAMS 1D-3D, 4B-1B, G20-G18 |



PEDESTAL DETAIL - P1



SECTION P2-P2 @ PIER OR BENT



SECTION P2-P2 @ ABUT BD

NOTES:

- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWINGS BC-736M.
- NUMBERS IN CIRCLES DENOTES TYPE.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR.
- FOR PEDESTAL DIMENSIONS SEE BEARING TABLES.
- WORK THIS SHEET WITH BEARING DETAILS 1 & 2 AND BEARING TABLES.

LEGEND:

E EPOXY COATED BARS

REFERENCES:

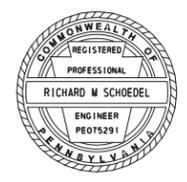
| REFERENCE | DESCRIPTION | SHEET |
|-----------|---------------------------------------|-------|
| 1. | GENERAL PLAN | 1 |
| 2. | LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 3. | GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 4. | TYP SECTION & LOAD RATINGS | 3 |
| 5. | GENERAL NOTES | 4 |
| 6. | SUMMARY OF QUANTITIES | 5-6 |
| 7. | SUBSTRUCTURE REPAIRS | 7-16 |
| 8. | BEARING DETAILS 1 & 2 | 34-35 |
| 9. | BEARING TABLES | 37 |

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

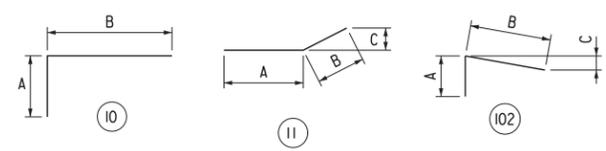
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING PEDESTALS**



RECOMMENDED _____ SHEET 36 OF 39

S - 38580

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| BEARING TABLES | | | | | | | | |
|----------------|----------|------|----------|---------------------------|------------|-------------|----------------------|----------|
| LOCATION | | | BRG TYPE | PROPOSED BEARING PEDESTAL | | | | BM GRADE |
| SUBSTR UNIT | SPAN | BEAM | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | T/PEDESTAL ELEVATION | |
| PIER 5 | SPAN 1AB | G3 | BE | 19 | 39 | 4.28 | 801.89 | 3.33 |
| | | 1A | AE | 19 | 36 | 12.64 | 802.58 | 4.86 |
| | | 2A | AE | 19 | 36 | 14.92 | 802.77 | 4.88 |
| | | 3A | AE | 19 | 36 | 15.64 | 802.83 | 4.85 |
| | | 4A | AE | 19 | 36 | 15.88 | 802.85 | 4.84 |
| | | 5A | AE | 19 | 36 | 15.88 | 802.85 | 4.82 |
| | | 6A | AE | 19 | 36 | 13.36 | 802.64 | 4.64 |
| | | 3B | AE | 19 | 36 | 11.20 | 802.46 | 4.81 |
| | | 2B | AE | 19 | 36 | 9.04 | 802.28 | 5.00 |
| | | 1B | AE | 19 | 36 | 7.00 | 802.11 | 5.17 |
| | | G2 | BE | 19 | 39 | 2.08 | 801.70 | 4.58 |
| | | G1 | BE | 19 | 39 | 1.40 | 801.20 | 4.41 |

| | | | | | | | | |
|----------|----------|----|----|----|----|-------|--------|------|
| BENT 1AB | SPAN 1AB | G3 | CF | 19 | 33 | 28.75 | 799.28 | 3.33 |
| | | 1A | CF | 19 | 33 | 22.44 | 798.75 | 4.86 |
| | | 2A | CF | 19 | 33 | 24.54 | 798.92 | 4.88 |
| | | 3A | CF | 19 | 33 | 25.56 | 799.01 | 4.85 |
| | | 4A | CF | 19 | 33 | 25.85 | 799.03 | 4.84 |
| | | 5A | CF | 19 | 33 | 26.04 | 799.05 | 4.82 |
| | | 6A | CF | 19 | 33 | 25.24 | 798.98 | 4.64 |
| | | 3B | CF | 19 | 33 | 21.43 | 798.67 | 4.81 |
| | | 2B | CF | 19 | 33 | 17.47 | 798.34 | 5.00 |
| | | 1B | CF | 19 | 33 | 13.74 | 798.03 | 5.17 |
| | | G2 | CF | 19 | 33 | 14.47 | 798.09 | 4.58 |
| | | G1 | CF | 19 | 33 | 10.03 | 797.72 | 4.41 |

| | | | | | | | | |
|----------|---------|----|----|----|----|-------|--------|------|
| BENT 1AB | SPAN 2B | 4B | CE | 19 | 33 | 22.12 | 798.72 | 4.48 |
| | | 3B | CE | 19 | 33 | 20.56 | 798.59 | 4.52 |
| | | 2B | CE | 19 | 33 | 16.48 | 798.25 | 4.54 |
| | | 1B | CE | 19 | 33 | 13.12 | 797.97 | 4.58 |
| | | G5 | CE | 19 | 33 | 13.26 | 797.98 | 4.62 |
| | | G4 | CE | 19 | 33 | 9.78 | 797.69 | 4.67 |

| BEARING TABLES | | | | | | | | |
|----------------|----------|------|----------|---------------------------|------------|-------------|----------------------|----------|
| LOCATION | | | BRG TYPE | PROPOSED BEARING PEDESTAL | | | | BM GRADE |
| SUBSTR UNIT | SPAN | BEAM | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | T/PEDESTAL ELEVATION | |
| BENT 7BD | SPAN 7BD | 1D | DF | 16 | 33 | 7.84 | 780.48 | 1.26 |
| | | 2D | DF | 16 | 33 | 8.10 | 780.51 | 1.31 |
| | | 3D | DF | 16 | 33 | 8.10 | 780.50 | 1.36 |
| | | 4B | DF | 16 | 33 | 7.58 | 780.46 | 1.55 |
| | | 3B | DF | 16 | 33 | 7.71 | 780.47 | 1.71 |
| | | 2B | DF | 16 | 33 | 7.91 | 780.49 | 1.70 |
| | | 1B | DF | 16 | 33 | 7.90 | 780.49 | 1.67 |
| | | G17 | DF | 16 | 33 | 9.02 | 780.58 | 1.47 |
| | | G16 | CF | 16 | 33 | 16.82 | 780.42 | 1.47 |
| | | G15 | CF | 16 | 33 | 10.82 | 779.92 | 1.44 |

| | | | | | | | | |
|----------|----------|-----|----|----|----|-------|--------|------|
| BENT 7BD | SPAN 8BD | 1D | DE | 16 | 33 | 6.88 | 780.40 | 2.45 |
| | | 2D | DE | 16 | 33 | 6.76 | 780.39 | 2.29 |
| | | 3D | DE | 16 | 33 | 6.88 | 780.40 | 2.17 |
| | | 4B | DE | 16 | 33 | 7.36 | 780.44 | 2.02 |
| | | 3B | DE | 16 | 33 | 7.24 | 780.43 | 1.86 |
| | | 2B | DE | 16 | 33 | 7.48 | 780.45 | 1.66 |
| | | 1B | DE | 16 | 33 | 7.72 | 780.47 | 1.49 |
| | | G20 | DE | 16 | 33 | 8.34 | 780.52 | 1.63 |
| | | G19 | GE | 16 | 33 | 16.14 | 780.36 | 1.69 |
| | | G18 | GE | 16 | 33 | 9.78 | 779.83 | 1.73 |

| | | | | | | | | |
|---------|----------|-----|----|--------|----|-------|--------|------|
| ABUT BD | SPAN 8BD | 1D | CF | VARIES | 33 | 15.30 | 778.61 | 2.45 |
| | | 2D | CF | VARIES | 33 | 16.62 | 778.72 | 2.29 |
| | | 3D | CF | VARIES | 33 | 17.94 | 778.83 | 2.17 |
| | | 4B | CF | VARIES | 33 | 19.74 | 778.98 | 2.02 |
| | | 3B | CF | VARIES | 33 | 15.06 | 779.09 | 1.86 |
| | | 2B | CF | VARIES | 33 | 17.10 | 779.26 | 1.66 |
| | | 1B | CF | VARIES | 33 | 18.78 | 779.40 | 1.49 |
| | | G20 | CF | VARIES | 33 | 18.14 | 779.35 | 1.63 |
| | | G19 | CF | VARIES | 33 | 15.74 | 779.15 | 1.69 |
| | | G18 | CF | VARIES | 33 | 9.02 | 778.59 | 1.73 |

| BEARING TABLES | | | | | | | | |
|----------------|---------|------|----------|---------------------------|------------|-------------|----------------------|----------|
| LOCATION | | | BRG TYPE | PROPOSED BEARING PEDESTAL | | | | BM GRADE |
| SUBSTR UNIT | SPAN | BEAM | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | T/PEDESTAL ELEVATION | |
| BENT 2B | SPAN 2B | 4B | CF | 19 | 33 | 22.29 | 795.39 | 4.48 |
| | | 3B | CF | 19 | 33 | 20.30 | 795.22 | 4.52 |
| | | 2B | CF | 19 | 33 | 16.76 | 794.93 | 4.54 |
| | | 1B | CF | 19 | 33 | 13.71 | 794.67 | 4.58 |
| | | G5 | CF | 19 | 33 | 14.30 | 794.72 | 4.62 |
| | | G4 | CF | 19 | 33 | 10.94 | 794.44 | 4.67 |

| | | | | | | | | |
|---------|---------|----|----|----|----|-------|--------|------|
| BENT 2B | SPAN 3B | 4B | CE | 19 | 33 | 21.76 | 795.34 | 4.65 |
| | | 3B | CE | 19 | 33 | 19.36 | 795.14 | 4.69 |
| | | 2B | CE | 19 | 33 | 15.64 | 794.83 | 4.70 |
| | | 1B | CE | 19 | 33 | 12.28 | 794.55 | 4.71 |
| | | G8 | CE | 19 | 33 | 13.14 | 794.62 | 4.76 |
| | | G7 | CE | 19 | 33 | 9.78 | 794.34 | 4.81 |

| | | | | | | | | |
|---------|---------|----|----|----|----|-------|--------|------|
| BENT 3B | SPAN 3B | 4B | CF | 19 | 33 | 22.78 | 791.82 | 4.65 |
| | | 3B | CF | 19 | 33 | 20.37 | 791.62 | 4.69 |
| | | 2B | CF | 19 | 33 | 16.83 | 791.32 | 4.70 |
| | | 1B | CF | 19 | 33 | 13.68 | 791.06 | 4.71 |
| | | G8 | CF | 19 | 33 | 14.54 | 791.13 | 4.76 |
| | | G7 | CF | 19 | 33 | 11.06 | 790.84 | 4.81 |

| | | | | | | | | |
|---------|---------|-----|----|----|----|-------|--------|------|
| BENT 3B | SPAN 4B | 4B | CE | 19 | 33 | 22.72 | 791.81 | 5.59 |
| | | 3B | CE | 19 | 33 | 19.84 | 791.57 | 5.42 |
| | | 2B | CE | 19 | 33 | 16.36 | 791.28 | 5.24 |
| | | 1B | CE | 19 | 33 | 13.00 | 791.00 | 5.06 |
| | | G10 | CE | 19 | 33 | 13.26 | 791.02 | 5.08 |
| | | G9 | CE | 19 | 33 | 9.78 | 790.73 | 4.96 |

| | | | | | | | | |
|---------|---------|-----|----|----|----|-------|--------|------|
| BENT 4B | SPAN 4B | 4B | CF | 19 | 33 | 18.30 | 787.73 | 5.59 |
| | | 3B | CF | 19 | 33 | 16.94 | 787.61 | 5.42 |
| | | 2B | CF | 19 | 33 | 15.11 | 787.46 | 5.24 |
| | | 1B | CF | 19 | 33 | 13.32 | 787.31 | 5.06 |
| | | G10 | CF | 19 | 33 | 13.46 | 787.32 | 5.08 |
| | | G9 | CF | 19 | 33 | 11.06 | 787.12 | 4.96 |

| BEARING TABLES | | | | | | | | | |
|----------------|---------|------|----------|---------------------------|------------|-------------|----------------------|----------|-----|
| LOCATION | | | BRG TYPE | PEDESTAL BEARING PEDESTAL | | | | BM GRADE | |
| SUBSTR UNIT | SPAN | BEAM | | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | T/PEDESTAL ELEVATION | | J % |
| BENT 4B | SPAN 5B | 4B | CE | 19 | 33 | 17.08 | 787.62 | 4.81 | |
| | | 3B | CE | 19 | 33 | 15.88 | 787.52 | 4.69 | |
| | | 2B | CE | 19 | 33 | 14.08 | 787.37 | 4.56 | |
| | | 1B | CE | 19 | 33 | 12.16 | 787.21 | 4.44 | |
| | | G12 | CE | 19 | 33 | 12.18 | 787.21 | 4.44 | |
| | | G11 | CE | 19 | 33 | 9.78 | 787.01 | 4.39 | |

| | | | | | | | | |
|---------|---------|-----|----|----|----|-------|--------|------|
| BENT 5B | SPAN 5B | 4B | CF | 19 | 33 | 14.38 | 784.12 | 4.81 |
| | | 3B | CF | 19 | 33 | 14.22 | 784.11 | 4.69 |
| | | 2B | CF | 19 | 33 | 13.61 | 784.05 | 4.56 |
| | | 1B | CF | 19 | 33 | 12.75 | 783.98 | 4.44 |
| | | G12 | CF | 19 | 33 | 12.74 | 783.98 | 4.44 |
| | | G11 | CF | 19 | 33 | 10.82 | 783.82 | 4.39 |

| | | | | | | | | |
|---------|---------|-----|----|----|----|-------|--------|------|
| BENT 5B | SPAN 6B | 4B | CE | 19 | 33 | 12.40 | 783.95 | 3.24 |
| | | 3B | CE | 19 | 33 | 12.64 | 783.97 | 3.02 |
| | | 2B | CE | 19 | 33 | 12.16 | 783.93 | 2.90 |
| | | 1B | CE | 19 | 33 | 11.92 | 783.91 | 2.80 |
| | | G14 | CE | 19 | 33 | 11.58 | 783.88 | 2.80 |
| | | G13 | CE | 19 | 33 | 9.78 | 783.73 | 2.80 |

| | | | | | | | | |
|----------|---------|-----|----|----|----|-------|--------|------|
| BENT 6BD | SPAN 6B | 3B | CF | 19 | 33 | 17.34 | 781.76 | 3.02 |
| | | 2B | CF | 19 | 33 | 17.97 | 781.82 | 2.90 |
| | | 1B | CF | 19 | 33 | 18.59 | 781.87 | 2.80 |
| | | G14 | CF | 19 | 33 | 18.26 | 781.84 | 2.80 |
| | | G13 | CF | 19 | 33 | 16.46 | 781.69 | 2.80 |

| | | | | | | | | |
|----------|----------|-----|----|----|----|-------|--------|------|
| BENT 6BD | SPAN 7BD | 1D | CE | 19 | 33 | 11.08 | 781.24 | 1.26 |
| | | 2D | CE | 19 | 33 | 12.16 | 781.33 | 1.31 |
| | | 3D | CE | 19 | 33 | 13.00 | 781.40 | 1.36 |
| | | 3B | CE | 19 | 33 | 16.48 | 781.69 | 1.71 |
| | | 2B | CE | 19 | 33 | 17.08 | 781.74 | 1.70 |
| | | 1B | CE | 19 | 33 | 17.32 | 781.76 | 1.67 |
| | | G17 | CE | 19 | 33 | 17.10 | 781.74 | 1.47 |
| | | G16 | CE | 19 | 33 | 15.66 | 781.62 | 1.47 |
| | | G15 | CE | 19 | 33 | 9.78 | 781.13 | 1.44 |

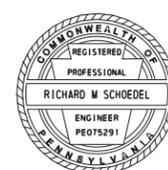
NOTES:

- PROPOSED PEDESTAL ELEVATION BASED ON REHABILITATION PLANS S-15738. FIELD VERIFY AND ADJUST AS REQUIRED SO BEAM ELEVATIONS DO NOT CHANGE AFTER INSTALLATION OF NEW BEARINGS.
- WORK THIS SHEET WITH BEARING DETAILS 1 & 2, AND BEARING PEDESTALS.
- FOR PEDESTAL HEIGHTS <4", CHIP EXISTING CONCRETE TO ACHIEVE 4" PEDESTAL HEIGHT.

REFERENCES:

- GENERAL PLAN 1
- LIST OF PENNDOT SUPPLEMENTAL DRAWINGS 1
- GENERAL ELEVATION & INDEX OF DRAWINGS 2
- TYP SECTION & LOAD RATINGS 3
- GENERAL NOTES 4
- SUMMARY OF QUANTITIES 5-6
- SUBSTRUCTURE REPAIRS 7-16
- BEARING DETAILS - 1 & 2 34-35
- BEARING PEDESTALS 36

SHEET:



| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

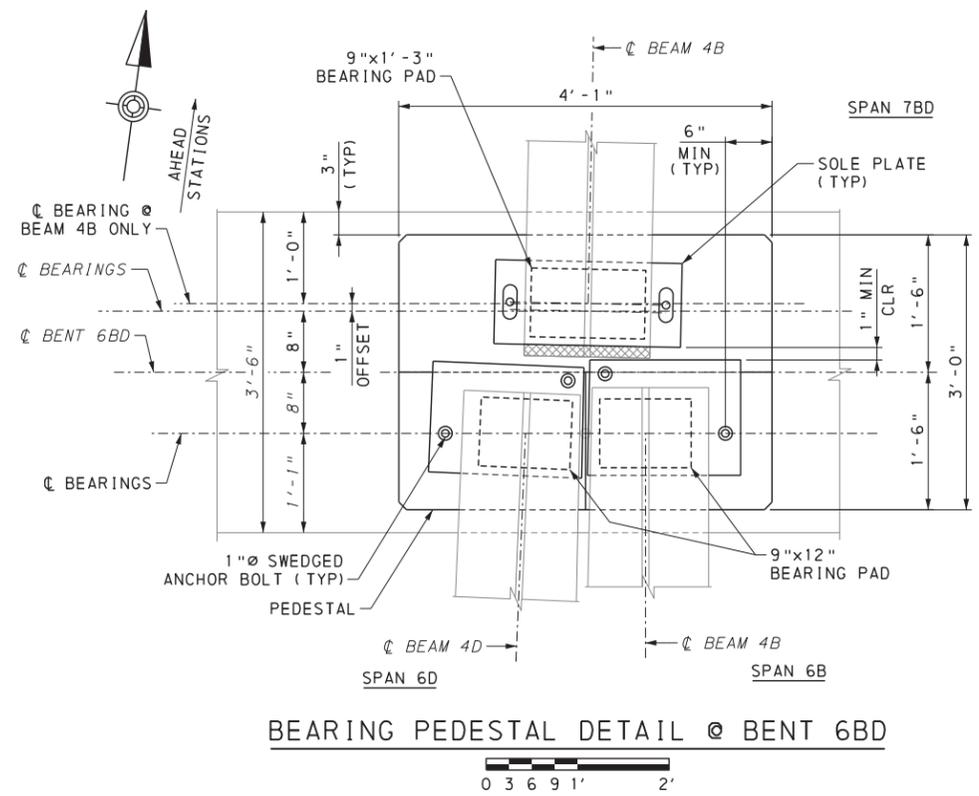
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING TABLES

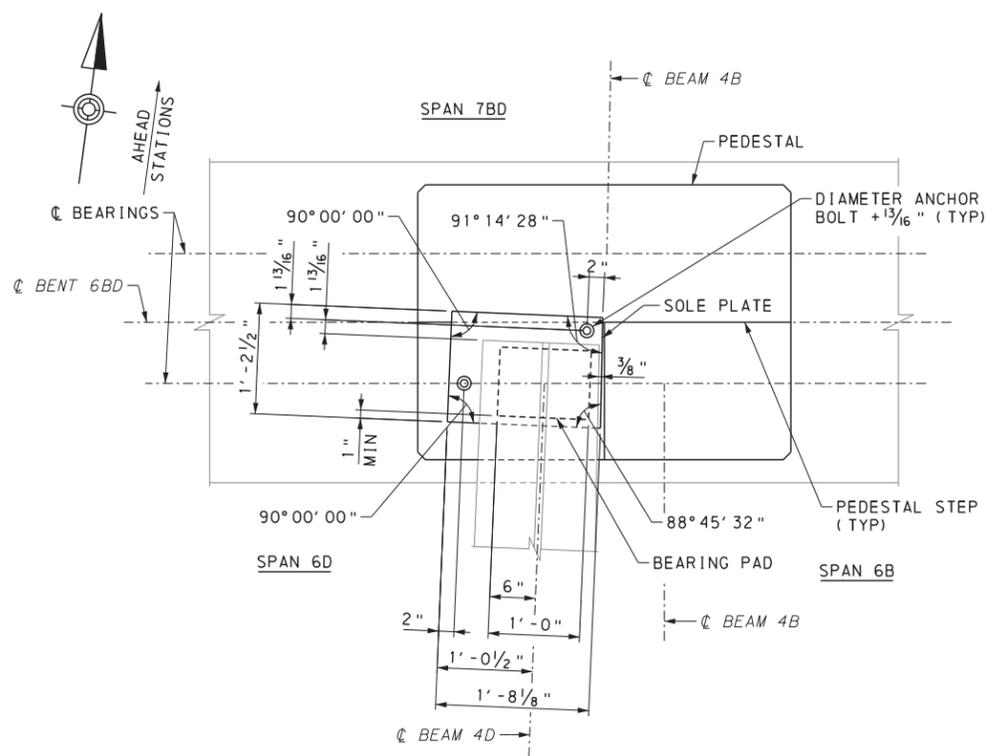
RECOMMENDED _____ SHEET 37 OF 39

S - 38580

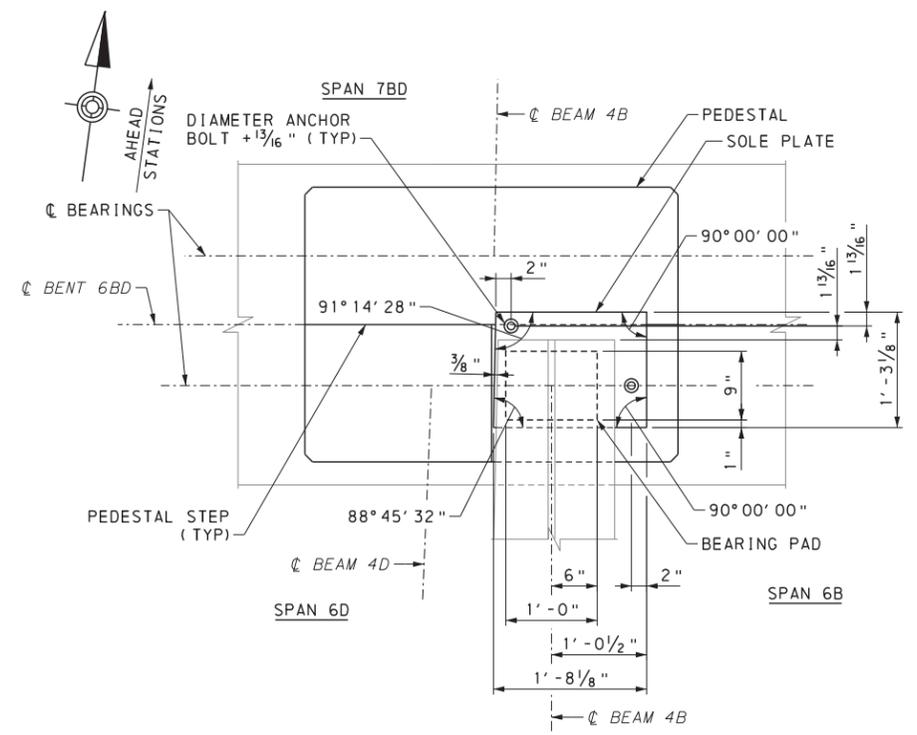
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BEARING PEDESTAL DETAIL @ BENT 6BD



BEARING DETAIL @ BEAM 4D (FIXED) SPAN 6D
(SHOWN ONLY)



BEARING DETAIL @ BEAM 4B (FIXED) SPAN 6B
(SHOWN ONLY)



NOTES:

1. FOR BEARING NOTES, ANCHOR BOLT DETAIL AND DETAILS NOT SHOWN, SEE BEARING DETAILS-1.
2. WORK THIS SHEET WITH BEARING DETAILS @ BENT 6BD-2.
3. LOCATE EXISTING LONGITUDINAL REINFORCING BENT BARS IN THE FIELD. NO EXISTING LONGITUDINAL BENT CAP REINFORCING BAR WILL BE CUT AT VERTICAL PEDESTAL REINFORCING BAR OR ANCHOR BOLT LOCATIONS.
4. ADJUST THE LOCATION OF PEDESTAL REINFORCING BARS AS NECESSARY TO AVOID INTERFERENCE WITH THE LONGITUDINAL REINFORCING BARS IN THE BENT CAP.

REFERENCES:

| REFERENCES: | SHEET: |
|--|--------|
| 1. GENERAL PLAN | 1 |
| 2. SCOPE OF WORK | 1 |
| 3. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. SUMMARY OF QUANTITIES | 5-6 |
| 8. BENT 6BD REPAIRS | 13 |
| 9. BEARING DETAILS - 1 | 34 |
| 10. BEARING DETAILS @ 6BD - 2 | 39 |

LEGEND:

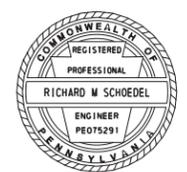
PORTION OF EXISTING BEAM FLANGE & WEB TO BE REMOVED

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

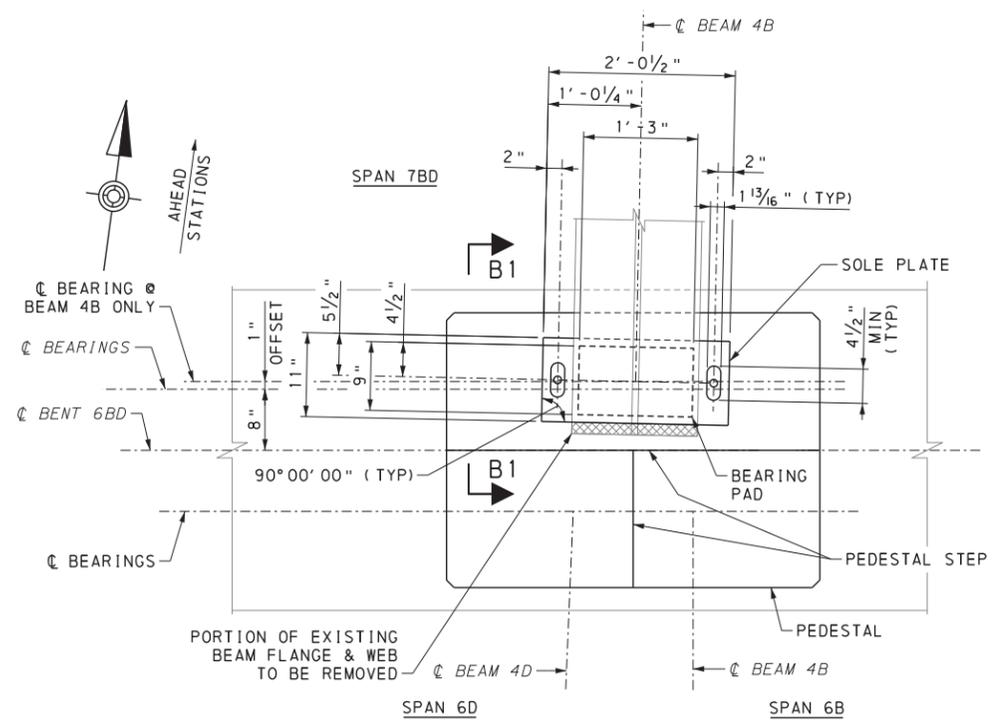
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING DETAILS @ BENT 6BD - 1



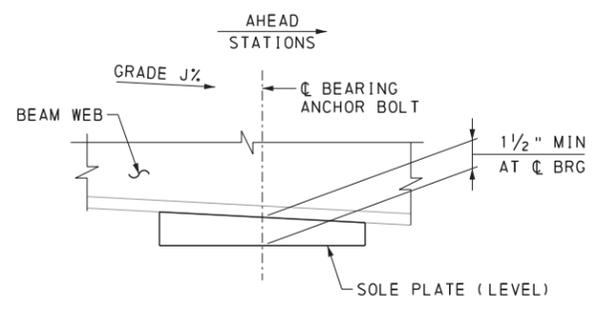
RECOMMENDED _____ SHEET 38 OF 39

S - 38580

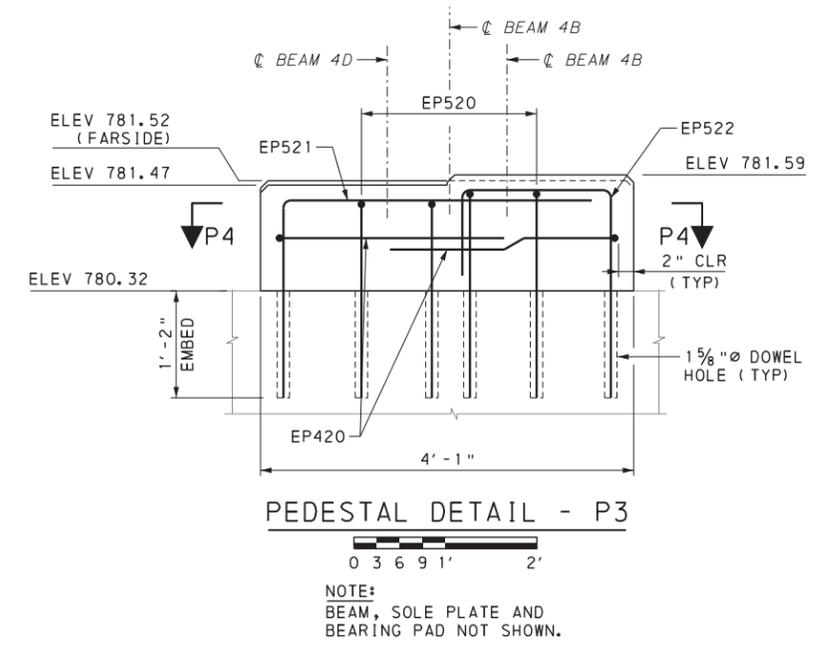
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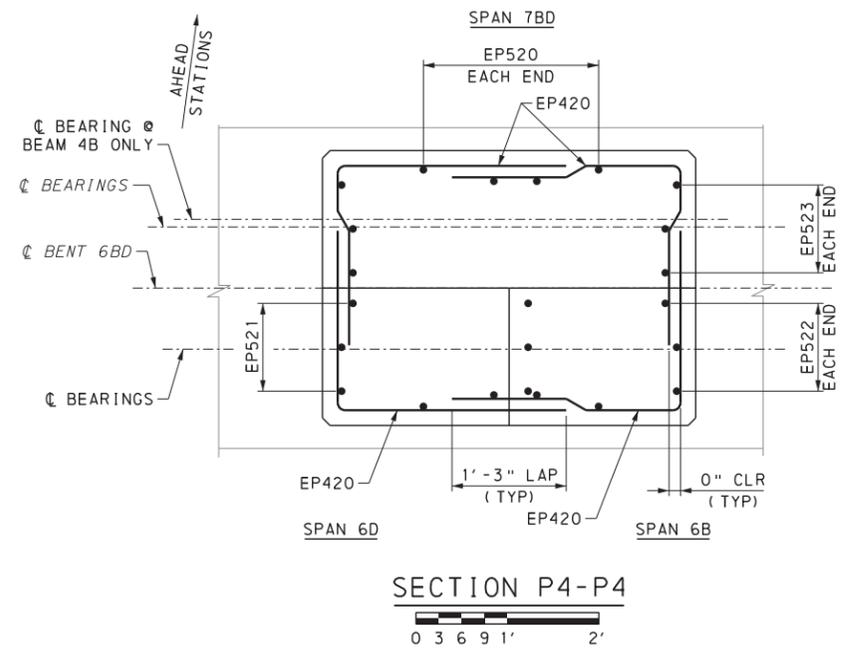
**BEARING DETAIL @ BEAM 4B (EXP) SPAN 7BD
(SHOWN ONLY)**
0 3 6 9 1' 2'



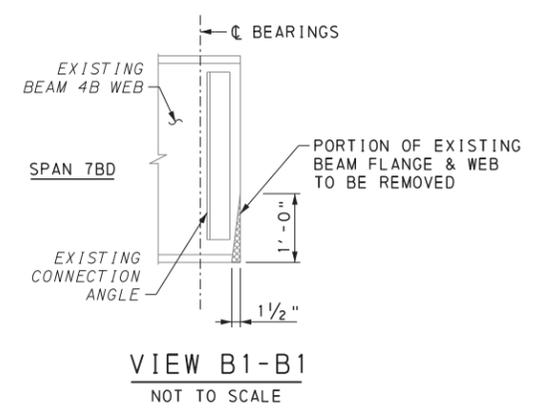
**SOLE PLATE BEVEL DETAIL
(NOT TO SCALE)**
GRADE J
SPAN 6D, BEAM 4D, 0.24%
SPAN 6B, BEAM 4B, 3.24%
SPAN 7BD, BEAM 4B, 1.55%



PEDESTAL DETAIL - P3
0 3 6 9 1' 2'
NOTE:
BEAM, SOLE PLATE AND
BEARING PAD NOT SHOWN.

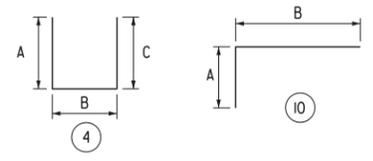


SECTION P4-P4
0 3 6 9 1' 2'



**VIEW B1-B1
NOT TO SCALE**

| PEDESTAL REINFORCING BAR SCHEDULE | | | | | | | |
|-----------------------------------|------|--------|--------|------|-------|-------|-----|
| MARK | SIZE | NUMBER | LENGTH | TYPE | A | B | C |
| EP420 | 4 | 4 | 4'-7" | 10 | 2'-0" | 2'-7" | |
| EP520 | 5 | 8 | 4'-8" | 10 | 2'-3" | 2'-5" | |
| EP521 | 5 | 3 | 5'-11" | 10 | 2'-3" | 3'-8" | |
| EP522 | 5 | 3 | 4'-10" | 4 | 2'-3" | 1'-8" | 11" |
| EP523 | 5 | 6 | 5'-3" | 10 | 2'-3" | 3'-0" | |



- NOTES:**
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWINGS BC-736M.
 - NUMBERS IN CIRCLES DENOTES TYPE.
 - ALL DIMENSIONS ARE OUT TO OUT OF BAR.
 - WORK THIS SHEET WITH BEARING DETAILS @ BENT 6BD-1.

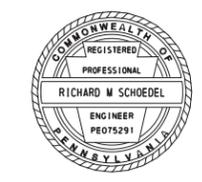
| REFERENCES: | SHEET: |
|--|--------|
| 1. GENERAL PLAN | 1 |
| 2. SCOPE OF WORK | 1 |
| 3. LIST OF PENNDOT SUPPLEMENTAL DRAWINGS | 1 |
| 4. GENERAL ELEVATION & INDEX OF DRAWINGS | 2 |
| 5. TYP SECTION & LOAD RATINGS | 3 |
| 6. GENERAL NOTES | 4 |
| 7. SUMMARY OF QUANTITIES | 5-6 |
| 8. BENT 6BD REPAIRS | 13 |
| 9. BEARING DETAILS - 1 | 34 |
| 10. BEARING DETAILS @ 6BD - 1 | 38 |

- LEGEND:**
- PORTION OF EXISTING BEAM FLANGE & WEB TO BE REMOVED
 - E EPOXY COATED BARS

| Mark | Description | By | Chk' d. | Recm' d. | Date |
|-----------|-------------|----|---------|----------|------|
| REVISIONS | | | | | |

SR 0366 PREVIOUSLY KNOWN AS LR 9801
BMS STR ID: 02-0366-0033-0890 ECMS/MPMS NO: 63307 BRKEY: 1109

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
SR 0366 SECTION A06
SEGMENT 0033 OFFSET 0890
SR 0366 STA 52+83.72
OVER NORFOLK SOUTHERN RAILROAD,
4TH AVE, AND ROSS STREET
**PRESERVATION OF STEEL MULTI-GIRDER BRIDGE
BEARING DETAILS @ BENT 6BD - 2**



**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to perform bridge preservation work on the existing bridge where State Route 0366 crosses above the track of Norfolk Southern Railway Company, DOT Number 510 866 U in Tarentum Borough, Allegheny County and the allocation of costs incident thereto.

Application
Docket No. A-2019-3011540

Electronically Filed

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:

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Atlanta, GA 30309

Mr. Timothy J. Bentley, Esquire.
Norfolk Southern Railway Company
Three Commercial Place
Norfolk, VA 23510-9241

Mr. Rich Fitzgerald
Allegheny County Executive
101 County Courthouse
436 Grant Street
Pittsburgh, PA 15219

Mr. Michael Nestico
Tarentum Borough
318 E. Second Avenue
Tarentum, PA 15084

Mr. Ford McLean
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3487 Beck Road
Butler, PA 16002

Mr. Rick Moslen
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Mr. Nicholas J. Barman
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Peoples Natural Gas Company
375 North Shore Drive
Pittsburgh, PA 15212

Ms. Debbie Barum
Verizon Pennsylvania LLC
Right-of-Way Department
15 East Montgomery Avenue, 2nd Floor
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Mr. Larry Goglin
Windstream
98 Industrial Park
Brookville, PA 15825

Dated this 17~~th~~ Day of January, 2020

Gregory J Vaughn
Name