



LOCATION MAP



LOCATION MAP

ISSUE RECORD NO.	DATE	DESCRIPTION

2021-09-22_BU 15 - RFC PLANS

SUM-76/77/8-8.24/9.74/0.00
 PID No. 102329

LOCATION MAP
 BRIDGE NO. SUM-8-0023S, SUM-8-1154R, SUM-76-1154R, SUM-77-0974R, SUM-77-0975L, SUM-77-1022, SUM-77-1082, SUM-77-1152, SUM-77-1096, SUM-8-0117, SUM-8-0125, SUM-8-0160, SUM-8-0038, SUM-8-0117, SUM-77-0974R, SUM-77-1022, SUM-77-1082, SUM-76-1151L, SUM-76-1154R, SUM-77-0974R, SUM-77-0975L, SUM-77-1022, SUM-77-1082, SUM-77-1152

DESIGNED	KDC	CHECKED	JAT
DRAWN	KDC	REVISED	
REVIEWED	SAN	STRUCTURE FILE NUMBER	
DATE	6/18/21		

DESIGN AGENCY
PRIME
 8415 PULASKI BLVD
 COLUMBUS, OHIO 43231

STRUCTURE GENERAL NOTES

Released for Construction
Thomas J Powell, PE
10/05/2021

STANDARD DRAWINGS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	REVISED	7/17/15
AS-2-15	REVISED	1/18/15
BR-1-13	REVISED	1/17/14
EXJ-4-87	REVISED	1/19/18
GSD-1-19	REVISED	1/15/21
SBR-1-20	REVISED	7/17/20
VPF-1-90	REVISED	7/20/18

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

EXISTING BRIDGE PLANS:

EXISTING AND REHABILITATION BRIDGE PLANS HAVE BEEN PROVIDED BY ODOT DISTRICT 4.

PROPOSED WORK:

SUM-8-0023S (RAMP S (SR-8 SB TO I-76 EB)):

- SEAL BRIDGE DECK AND APPROACH SLABS WITH GRAVITY FED RESIN.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE SEALER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- INSPECT BRIDGE DECK, MARK THE AREAS TO BE PATCHED AND PERFORM REQUIRED PATCHING.
- PAINT FASCIA BEAMS (EXTERIOR AND BOTTOM FLANGES ONLY) OF THE EXISTING STRUCTURAL STEEL AS PER C&MS 514.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACHES.
- REPAIR THE PARAPET AT THE REAR LEFT OF THE STRUCTURE.
- REPAIR THE EROSION AT THE REAR LEFT OF THE STRUCTURE.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-8-0038 (JOHNSTON ST. OVER SR-8):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON THE SIDEWALK AND EPOXY-URETHANE SEALER ON THE REMAINDER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- PAINT ALL STRUCTURAL STEEL AS PER C&MS 514.
- REPAIR PAINT THE EXISTING METAL CURB PLATES AND SIDEWALK ARMOR AS PER C&MS 514.22.
- REFURBISH ALL BEARINGS AT THE REAR AND FORWARD APPROACHES.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).

PROPOSED WORK (CONT'D):

- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-8-0117 (CARROLL ST. OVER SR-8):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON THE SIDEWALK AND EPOXY-URETHANE SEALER ON THE REMAINDER.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARDS APPROACHES.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-8-0125 (BUCHTEL ST. OVER SR-8):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON THE SIDEWALK AND EPOXY-URETHANE SEALER ON THE REMAINDER.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.
- REMOVE AND REPLACE PORTIONS OF APPROACH SIDEWALK AS DESIGNATED BY THE ENGINEER.

SUM-8-0160 (FORGE ST. OVER SR-8):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- SEAL BRIDGE DECK AND APPROACH SLABS WITH GRAVITY FED RESIN.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON THE SIDEWALK AND EPOXY-URETHANE SEALER ON THE REMAINDER.
- INSPECT BRIDGE DECK, MARK THE AREAS TO BE PATCHED AND PERFORM REQUIRED PATCHING.
- REMOVE AND REPLACE THE EXISTING ASPHALT FROM THE PRESSURE RELIEF JOINTS AT EACH END OF THE STRUCTURE.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

PROPOSED WORK (CONT'D):

SUM-59-0341 (PERKINS ST. OVER SR-8):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON THE SIDEWALK AND EPOXY-URETHANE SEALER ON THE REMAINDER.
- REMOVE AND REPLACE PORTIONS OF THE APPROACH SIDEWALK AS DESIGNATED BY THE ENGINEER.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-76-1151L (I-76 WB OVER I-77 NB & SR-8):

- REMOVE ASPHALT FROM BRIDGE DECK AND APPROACH SLABS AND REPLACE WITH A NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE ORIGINAL DECK ELEVATION.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE SEALER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- PAINT ALL STRUCTURAL STEEL AS PER C&MS 514.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACHES.
- PERMANENTLY CLOSE THE EXISTING RAMP N CONNECTION BY CONSTRUCTING A NEW CONCRETE PARAPET.
- REFURBISH ALL BEARINGS AT THE REAR AND FORWARD ABUTMENTS.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-76-1154R (I-76 EB OVER I-77 NB & SR-8):

- REMOVE ASPHALT FROM BRIDGE DECK AND APPROACH SLABS AND REPLACE WITH A NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE ORIGINAL DECK ELEVATION.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE SEALER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- PAINT ALL STRUCTURAL STEEL AS PER C&MS 514.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACHES.
- PERMANENTLY CLOSE THE EXISTING RAMP P CONNECTION BY CONSTRUCTING A NEW CONCRETE PARAPET.
- REFURBISH ALL BEARINGS AT THE REAR AND FORWARD ABUTMENTS.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

PROPOSED WORK (CONT'D):

SUM-77-0974R (I-77 NB OVER WATERLOO RD.):

- INSTALL A MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT EXISTING DECK ELEVATION.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE SEALER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- REMOVE AND REPLACE THE EXPANSION JOINTS AT THE REAR AND FORWARD APPROACHES.
- REFURBISH ALL BEARINGS AT THE REAR AND FORWARD ABUTMENTS.
- REMOVE AND REPLACE ALL END CROSSFRAMES AT THE REAR ABUTMENT.
- REMOVE AND REPLACE THE EXISTING REAR AND FORWARD APPROACH SLABS. THE NEW APPROACH SLABS SHALL BE FULL-WIDTH, PROVIDE THE PARAPET TRANSITIONS AND PROVIDE THE APPROPRIATE APPROACH SLAB INSTALLATION PER STD. DWG. AS-2-15.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION.

SUM-77-0975L (I-77 SB OVER WATERLOO RD.):

- INSTALL A MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT EXISTING DECK ELEVATION.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE SEALER.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- REMOVE AND REPLACE THE EXPANSION JOINTS AT THE FORWARD AND REAR APPROACHES.
- REFURBISH ALL BEARINGS AT THE REAR AND FORWARD ABUTMENTS.
- REMOVE AND REPLACE THE EXISTING REAR AND FORWARD APPROACH SLABS. THE NEW APPROACH SLABS SHALL BE FULL-WIDTH, PROVIDE THE PARAPET TRANSITIONS AND PROVIDE THE APPROPRIATE APPROACH SLAB INSTALLATION PER STD. DWG. AS-2-15.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION.

ISSUE RECORD:	NO.	DATE	DESCRIPTION

GENERAL NOTES (1 OF 5)

SUM-76/77/8-8.24/9.74/0.00
PID No. 102329

3
65

2021-09-22_BU 15 - RFC PLANS

DESIGN AGENCY: **PRIME**
STATE ROUTE PLANS
Columbus, Ohio 43231

DATE: 6/18/21
REVIEWED: SAN
DRAWN: KDC
CHECKED: JAT
DESIGNED: KDC

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STRUCTURE GENERAL NOTES

Released for Construction
Thomas J Powell, PE
10/05/2021

PROPOSED WORK (CONT'D):

SUM-77-1022 (CATAWBA AVE. OVER I-77):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON SIDEWALKS AND EPOXY-URETHANE ELSEWHERE AS SHOWN IN THE PLANS.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-77-1082 (I-77 OVER FIRESTONE BLVD.):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH AN EPOXY-URETHANE SEALER.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE EXISTING CONCRETE OVERLAY & EXISTING ASPHALT OVERLAY FROM BRIDGE DECK AND APPROACH SLABS AND REPLACE WITH A NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT ELEVATION OF EXISTING CONCRETE OVERLAY. ADJUST CROWN ON THE SOUTHBOUND BRIDGE ONLY.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACH.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION.

SUM-77-1096 (I-77 OVER ARCHWOOD AVE. CR-671):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH AN EPOXY-URETHANE SEALER.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE EXISTING CONCRETE OVERLAY & EXISTING ASPHALT OVERLAY FROM BRIDGE DECK AND APPROACH SLABS AND REPLACE WITH A NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT ELEVATION OF EXISTING CONCRETE OVERLAY. ADJUST CROWN ON NORTHBOUND AND SOUTHBOUND BRIDGES.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACH.
- REFURBISH ALL BEARINGS AT REAR AND FORWARD ABUTMENTS.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION.

SUM-764-0214 (SR 764 OVER I-77):

- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

PROPOSED WORK (CONT'D):

SUM-77-1132 (COLE AVENUE OVER I-77):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON SIDEWALKS AND EPOXY-URETHANE ELSEWHERE AS SHOWN IN THE PLANS.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- REMOVE EXISTING CATHODIC PROTECTION SYSTEM, THIS INCLUDES DISCONNECTING THE POWER SERVICE, REMOVAL OF CABINET, CONDUIT, WIRING, ETC.
- REPAIR AREAS OF THE CURB AS DESIGNATED BY THE ENGINEER.
- INSPECT SUBSTRUCTURE, MARK THE AREAS TO BE PATCHED AND PERFORM THE REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.

SUM-77-1152 (LOVERS LANE OVER I-77):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH NON-EPOXY SEALER ON SIDEWALKS AND EPOXY-URETHANE ELSEWHERE AS SHOWN IN THE PLANS.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE AND REPLACE THE EXISTING VANDAL PROTECTION FENCE AS PER STD. DWG. VPF-1-90 (STRAIGHT FENCE). THE COLOR OF ALL VISUAL HARDWARE AND FABRIC SHALL BE COATED BLACK (FEDERAL COLOR NO. 27038).
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- REMOVE EXISTING CATHODIC PROTECTION SYSTEM, THIS INCLUDES DISCONNECTING THE POWER SERVICE, REMOVAL OF CABINET, CONDUIT, WIRING, ETC.
- REPAIR AREAS OF THE CURB AS DESIGNATED BY THE ENGINEER.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.
- REPLACE THE MISSING TOP RAILING ON THE SOUTH PARAPET.

PROPOSED WORK (CONT'D):

SUM-77-1201 (I-77 NB OVER SR-8):

- REMOVE EXISTING SEALER (IF PRESENT) PER C&MS 512 FROM SUPERSTRUCTURE AND SUBSTRUCTURE AND SEAL WITH AN EPOXY-URETHANE SEALER.
- REMOVE SPALLS AND DELAMINATIONS OVER SAFETY SENSITIVE AREAS (PAVEMENT, SHOULDERS, SIDEWALKS, ETC.) FROM THE FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE ALL DIRT AND DEBRIS FROM THE BEAM SEATS, DRAINAGE SYSTEMS (IF PRESENT), AND BRIDGE JOINTS.
- PAINT FASCIA BEAMS (EXTERIOR AND BOTTOM FLANGES ONLY) OF THE EXISTING STRUCTURAL STEEL AS PER CMS514.
- INSPECT BRIDGE DECK, MARK THE AREAS TO BE PATCHED AND PERFORM REQUIRED PATCHING.
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE FORWARD AND REAR APPROACH.
- INSPECT SUBSTRUCTURE AND PERFORM REQUIRED PATCHING.
- REMOVE EXISTING STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) AND INSTALL NEW STRUCTURE IDENTIFICATION SIGNS IN THE APPROACH DIRECTION(S).
- PROVIDE VERTICAL CLEARANCE MEASUREMENTS PRIOR TO THE START OF CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION.
- SEAL BRIDGE DECK AND APPROACH SLABS WITH GRAVITY FED RESIN.

SPECIAL - STRUCTURES: CONCRETE SPALL REMOVAL:

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF VARIOUS STRUCTURES WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL-STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

THE FOLLOWING ESTIMATED QUANTITIES WERE PROVIDED BY ODOT AT BID TIME:

ITEM SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL

SUM-8-0023S	10 SQ YD	SUM-77-0975L	10 SQ YD
SUM-8-0038	10 SQ YD	SUM-77-1022	10 SQ YD
SUM-8-0117	10 SQ YD	SUM-77-1082	10 SQ YD
SUM-8-0125	10 SQ YD	SUM-77-1096	10 SQ YD
SUM-8-0160	10 SQ YD	SUM-77-1132	10 SQ YD
SUM-59-0341	10 SQ YD	SUM-77-1152	10 SQ YD
SUM-76-1151L	10 SQ YD	SUM-77-1201	10 SQ YD
SUM-76-1154R	10 SQ YD	SUM-764-0214	10 SQ YD
SUM-77-0974R	10 SQ YD		

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), FOR CONCRETE SPALL REMOVAL

SUM-8-0023S	10 SQ YD	SUM-77-0975L	10 SQ YD
SUM-8-0038	10 SQ YD	SUM-77-1022	10 SQ YD
SUM-8-0117	10 SQ YD	SUM-77-1082	10 SQ YD
SUM-8-0125	10 SQ YD	SUM-77-1096	10 SQ YD
SUM-8-0160	10 SQ YD	SUM-77-1132	10 SQ YD
SUM-59-0341	10 SQ YD	SUM-77-1152	10 SQ YD
SUM-76-1151L	10 SQ YD	SUM-77-1201	10 SQ YD
SUM-76-1154R	10 SQ YD	SUM-764-0214	10 SQ YD
SUM-77-0974R	10 SQ YD		

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITY AS APPROVED BY THE ENGINEER IN CHARGE.

SPECIAL - STRUCTURE, CURB REPAIR:

THIS ITEM WILL BE USED TO REPAIR THE DETERIORATED FACE OF THE CURB ON THE BRIDGE DECK AND/OR APPROACH SLABS. THIS WORK WILL BE PERFORMED IN ACCORDANCE WITH ITEM 519 - PATCHING CONCRETE STRUCTURES AND AS MODIFIED HEREIN.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL.

ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR SPECIAL - PATCHING CONCRETE STRUCTURE, MISC.: CURB REPAIR AND WILL BE PAID FOR PER FOOT.

THE FOLLOWING ESTIMATED BID QUANTITIES WERE PROVIDED BY ODOT AT BID TIME:

ITEM SPECIAL - STRUCTURE, MISC.: CURB REPAIR

SUM-77-1132	50 FT
SUM-77-1152	50 FT

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITY AS APPROVED BY THE ENGINEER IN CHARGE.

ITEM SPECIAL - REMOVE EXISTING CATHODIC PROTECTION SYSTEM:

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO REMOVE THE EXISTING CATHODIC PROTECTION SYSTEM, INCLUDING DISCONNECTING THE POWER SERVICE, REMOVAL OF CABINET, CONDUIT & WIRING. THE REMOVAL OF OVERHEAD POWER LINES & POLES ARE NOT INCLUDED IN THE SCOPE OF WORK. THE FOLLOWING BRIDGES SHALL HAVE THE CATHODIC PROTECTION REMOVED:

SUM-77-1132
SUM-77-1152

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF. AS PER PLAN:

ALL REQUIREMENTS OF C&MS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN S1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE IN ACCORDANCE WITH C&MS 501.06, TO THE ENGINEER. PROVIDE THE ENGINEER "ASBUILT" DRAWINGS ACCORDING TO C&MS 513.06, EXCEPT C&MS 501.04 DOES NOT APPLY. UPON RECEIPT OF THE ENGINEER'S ACCEPTANCE, SUPPLY A COPY OF THE DRAWINGS, ACCORDING TO S1002, TO THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM:

EXPANSION JOINT HARDWARE (SUM-77-0974R & SUM-77-0975L) END CROSSFRAMES (SUM-77-0974R)

ISSUE RECORD NO.	DATE	DESCRIPTION

GENERAL NOTES (2 OF 5)

2021-09-22_BU 15 - RFC PLANS

SUM-76/77/8-8.24/9.74/0.00
PID No. 102329

4
65

DESIGN AGENCY: **PRIME**
STATE OF OHIO
COLUMBUS, OHIO 43231

DATE: 6/18/21
REVIEWED: SAN
DRAWN: KDC
CHECKED: JAT
STRUCTURE FILE NUMBER

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Released for Construction
Thomas J Powell, PE
10/05/2021

DESIGN AGENCY
PRIME
14150 Blue Plains
Columbus, Ohio 43231

DATE 6/18/21
REVIEWED SAN
STRUCTURE FILE NUMBER

DRAWN KDC
CHECKED JAT
REVISED

GENERAL NOTES (3 OF 5)

2021-09-22_BU 15 - REC PLANS
SUM-76/77/8-
8.24/9.74/0.00
PID No. 102329

ITEM 519 - PATCHING CONCRETE STRUCTURES:

THIS WORK WILL CONSIST OF INSPECTING AND MARKING OF DETERIORATED CONCRETE AREAS AT THE EXISTING BRIDGE DECK, ABUTMENTS AND PIERS, BY THE CONTRACTOR, TO BE CONFIRMED BY THE ENGINEER IN CHARGE. SPALLS FORMING ARE EVIDENCED BY A VISUAL EDGE. DELAMINATIONS THAT DO NOT HAVE A VISIBLE EDGE WILL BE CONFIRMED AND OUTLINED BY THE ENGINEER IN CHARGE. ALL APPROVED DELINEATED AREAS SHALL BE REPAIRED IN ACCORDANCE WITH ITEM 519 - PATCHING CONCRETE SURFACES & ITEM 519 - PATCHING CONCRETE BRIDGE DECK, TYPE C. REPAIR OF EXISTING CONCRETE WILL BE PAID FOR AT THE UNIT BID PRICE FOR PATCHING CONCRETE STRUCTURES. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

THE FOLLOWING ESTIMATED QUANTITIES WERE PROVIDED BY ODOT AT BID TIME:

ITEM 519, PATCHING CONCRETE STRUCTURES

200 SF - SUM-8-0023S	200 SF - SUM-77-0975L
200 SF - SUM-8-0038	200 SF - SUM-77-1022
200 SF - SUM-8-0117	200 SF - SUM-77-1082
200 SF - SUM-8-0125	200 SF - SUM-77-1096
200 SF - SUM-8-0160	200 SF - SUM-77-1132
200 SF - SUM-59-0341	200 SF - SUM-77-1152
200 SF - SUM-76-1151L	200 SF - SUM-77-1201
200 SF - SUM-76-1154R	
200 SF - SUM-77-0974R	

ITEM 519, PATCHING CONCRETE BRIDGE DECK, TYPE C

25 SY - SUM-8-0023S
25 SY - SUM-8-0160
25 SY - SUM-77-1201

ITEM SPECIAL - MISC.: VERTICAL CLEARANCE:

BEFORE ANY CONSTRUCTION TAKES PLACE AND AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). FOR THE STRUCTURES WHERE THE PROPOSED WORK WILL NEITHER AFFECT THE POSITION OF THE LOWER CHORD NOR THE ROADWAY SURFACE BELOW, THE VERTICAL CLEARANCE DOES NOT NEED TO BE MEASURED AFTER ALL CONSTRUCTION HAS BEEN COMPLETED. THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE PERFORMED AT ALL OF THE OVERHEAD STRUCTURES WITHIN THE PROJECT LIMITS.

THE VERTICAL CLEARANCE SHALL BE MEASURED PRIOR TO AND AFTER CONSTRUCTION AT THE FOLLOWING STRUCTURES:

SUM-8-0023S	SUM-76-1154R
SUM-8-0038	SUM-77-1022
SUM-8-0117	SUM-77-1132
SUM-8-0125	SUM-77-1152
SUM-8-0160	SUM-77-1201
SUM-59-0341	SUM-764-0214
SUM-76-1151L	

THE VERTICAL CLEARANCE SHALL BE MEASURED ONLY PRIOR TO CONSTRUCTION AT THE FOLLOWING STRUCTURES:

SUM-77-0974R	SUM-77-1082
SUM-77-0975L	SUM-77-1096

ITEM SPECIAL: STRUCTURE, MISC.: EROSION REPAIR:

THE CONTRACTOR SHALL REPAIR ERODED AREAS WITHIN THE LIMITS OF THE RIGHT-OF-WAY. THE FOLLOWING ESTIMATED QUANTITIES WERE PROVIDED AT BID TIME:

SUM-8-0023 - 30 CY

THE DEPARTMENT WILL PAY FOR THE EXTENT OF REPAIR AS APPROVED BY THE ENGINEER IN CHARGE.

ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN:

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&M 711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60°F, LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. THE BEARINGS SHALL BE REFURBISHED AT THE FOLLOWING BRIDGES AT THE ABUTMENT ONLY:

SUM-8-0038	SUM-77-0974R
SUM-76-1151L	SUM-77-0975L
SUM-76-1154R	SUM-77-1096

STRUCTURE/CULVERT IDENTIFICATION SIGNS:

STRUCTURE IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:

SUM-8-0023S	SUM-76-1151L	SUM-77-1096
SUM-8-0038	SUM-76-1154R	SUM-77-1132
SUM-8-0117	SUM-77-0974R	SUM-77-1152
SUM-8-0125	SUM-77-0975L	SUM-77-1201
SUM-8-0160	SUM-77-1022	SUM-764-0214
SUM-59-0341	SUM-77-1082	

ITEM 514. FIELD PAINTING, MISC: REPAIR PAINTING:

PAINTED CURB PLATES AND SIDEWALK JOINT ARMOR AREAS THAT ARE DAMAGED OR RUSTED WILL BE DESIGNATED BY THE PROJECT ENGINEER. THE C&M 514.22 PROCESS WILL BE USED TO REPAIR THESE AREAS. THE COLOR SHALL MATCH THE EXISTING PAINT SYSTEM.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL NECESSARY EQUIPMENT TO INSPECT THIS WORK.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 514 - FIELD PAINTING, MISC.: REPAIR PAINTING. A CONTINGENCY QUANTITY OF 50 SF HAS BEEN ESTIMATED FOR BRIDGE NO. SUM-8-0038, TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 514. PAINTING EXISTING STRUCTURAL STEEL, AS PER PLAN:

THIS WORK CONSISTS OF FIELD PAINTING THE EXISTING STRUCTURAL STEEL. THE COATING SHALL BE A THREE-COAT PAINT SYSTEM CONSISTING OF AN ORGANIC ZINC PRIME COAT, AN EPOXY INTERMEDIATE COAT AND A URETHANE FINISH COAT ACCORDING TO C&M 514.

ITEM 514. PAINTING EXISTING STRUCTURAL STEEL, AS PER PLAN. (CONTINUED):

THE FOLLOWING BRIDGES REQUIRE FIELD PAINTING:

SUM-8-0023S (EXTERIOR & BOTTOM FLANGE OF FASCIA BEAMS ONLY)
SUM-8-0038
SUM-76-1151L
SUM-76-1154R
SUM-77-1201 (EXTERIOR & BOTTOM FLANGE OF FASCIA BEAMS ONLY)

PAINT COLOR WILL BE FEDERAL COLOR NO. 27769.

ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN:

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&M 501.05.

ITEM SPECIAL - SEALING OF CONCRETE:

THE CONTRACTOR SHALL REMOVE EXISTING COATINGS AND PREPARE SURFACES TO BE SEALED ACCORDING TO C&M 512. ALL SUPERSTRUCTURE AND ALL EXPOSED SUBSTRUCTURE (AS SHOWN IN THE DETAILS ON THIS SHEET) EXCEPT TOPS OF PIER CAPS, SHALL BE SEALED WITH AN EPOXY-URETHANE SEALER. APPLY THE EPOXY-URETHANE SEALER TO THE PARAPETS (DETAIL 'A') AND ALL EXPOSED CONCRETE SURFACES AT THE ABUTMENTS (DETAIL 'B') AND PIERS (DETAIL 'C'). THIS WORK WILL BE DONE IN ACCORDANCE WITH ITEM 512 - TREATING CONCRETE OF THE ODOT C&M'S.

EPOXY-URETHANE SEALER WILL BE FEDERAL COLOR NO. 13522 AND SHALL BE APPLIED TO THE FOLLOWING BRIDGES:

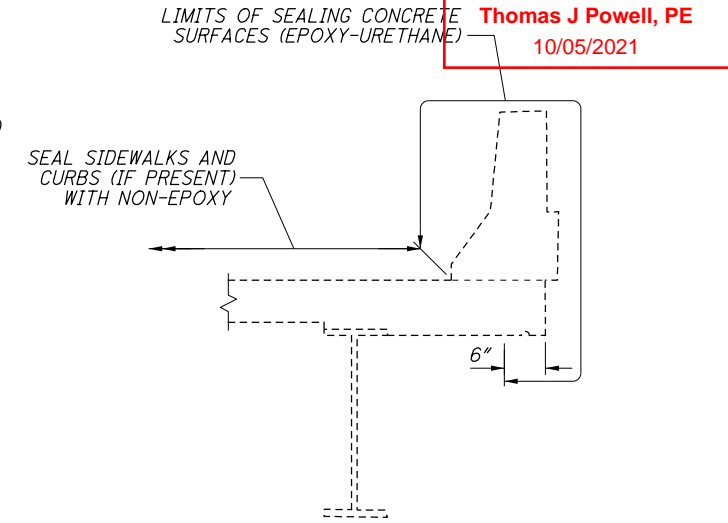
SUM-8-0117	SUM-77-0974R	SUM-77-1096
SUM-8-0125	SUM-77-0975L	SUM-77-1132
SUM-8-0160	SUM-77-1022	SUM-77-1152
SUM-59-0341	SUM-77-1082	

EPOXY-URETHANE SEALER WILL BE FEDERAL COLOR NO. 27769 AND SHALL BE APPLIED TO THE FOLLOWING BRIDGES:

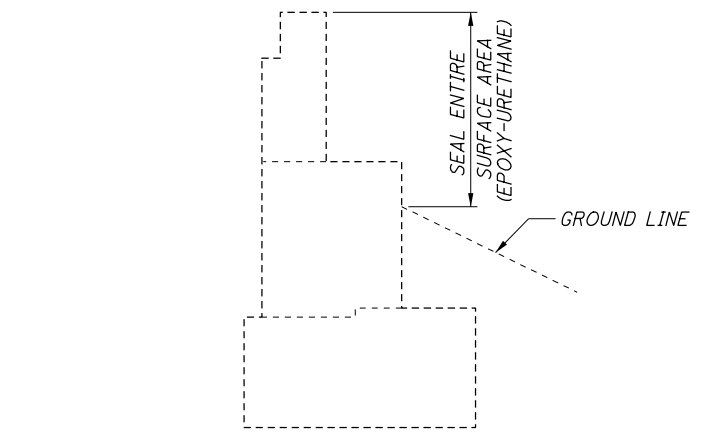
SUM-8-0023S	SUM-76-1154R
SUM-8-0038	SUM-77-1201
SUM-76-1151L	

BRIDGE PAINTING EQUIPMENT ON SHOULDERS:

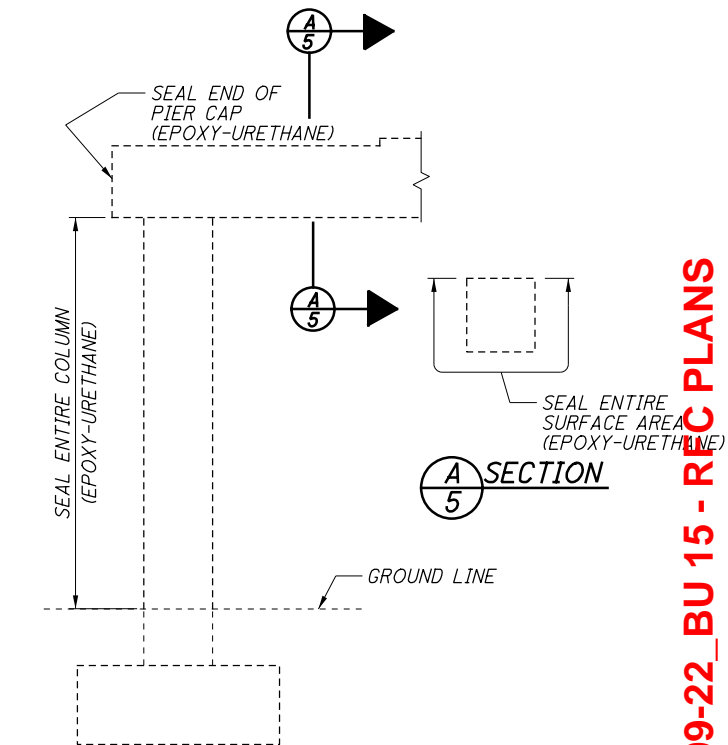
IF BRIDGE PAINTING EQUIPMENT IS TO REMAIN ON THE SHOULDERS WHEN THE CONTRACTOR IS NOT WORKING, IT SHALL BE PLACED BEHIND PORTABLE CONCRETE BARRIER (PCB) AND A WORK ZONE IMPACT ATTENUATOR (WZIA) SHALL PROTECT THE LEADING BLUNT END OF THE PCB (SEE ODOT, FIGURE 6H-5 "SHOULDER CLOSURE ON FREEWAY" (TYPICAL APPLICATION 5)). IF THE CONTRACTOR CHOOSES TO PROTECT PAINTING EQUIPMENT WITH PCB AND A WZIA, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID FOR MAINTAINING TRAFFIC.



DETAIL A - SUPERSTRUCTURE SEALING LIMITS



DETAIL B - ABUTMENT SEALING LIMITS



DETAIL C - PIER SEALING LIMITS

BRIDGE CLEANING NOTES:

WATER QUALITY PROTECTION:

THIS PROJECT IS SUBJECT TO THE CONDITIONS OF NPDES PERMIT OH2000001. THE CONTRACTOR MUST SUBMIT A NOTICE OF INTENT AS A CO-PERMITTEE UNDER THIS PROJECT AND RECEIVE OEPA APPROVAL TO OPERATE UNDER THE PERMIT PRIOR TO UNDERTAKING ITEM 530 SPECIAL STRUCTURES MISC.: CLEANING BRIDGES. CONTRACTOR MUST COMPLETE THE "WORK PLAN FOR BRIDGE CLEANING" FOR EACH BRIDGE IN ACCORDANCE WITH THE NPDES PERMIT.

DEBRIS REMOVAL AND DISPOSAL:

CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF DEBRIS IN ACCORDANCE WITH ALL ENVIRONMENTAL RESTRICTIONS AND PERMITS. DISPOSE ALL THE DEBRIS AS A RESULT OF THE BRIDGE CLEANING OPERATIONS IN ACCORDANCE WITH CMS 105.16. AND OAC 3745-27-05. UNDER NO CIRCUMSTANCES MAY SWEEPINGS BE SWEEP INTO OPEN DECK DRAINS, OVER THE EDGE OF THE BRIDGE. OR THROWN ALONG THE BANKS, OR INTO THE WATER.

ITEM 530 SPECIAL STRUCTURES MISC.: CLEANING BRIDGES

THE WORK SHALL CONSIST OF THE REMOVAL OF DIRT, SAND, SOIL, PAPER, GLASS, CANS, AND OTHER DEBRIS FROM DRAINAGE SYSTEMS, EXPANSION JOINTS, AND ABUTMENT SEATS. EQUIPMENT MAY CONSIST OF HAND TOOLS, MANUAL BROOMS, POWER BROOMS, AIR COMPRESSORS, WATER TANKS, WATER PUMPS WITH ASSOCIATED DELIVERY HARDWARE TO CLEAN, FLUSH, AND REMOVE DIRT AND DEBRIS.

THE CLEANING OF SCUPPERS AND JOINTS SHALL NOT BE PERFORMED PRIOR TO PERFORMING ITEM 530 SPECIAL STRUCTURES MISC.: SWEEPING BRIDGES.


THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A BRIDGE CLEANING WORK PLAN INDICATING LOCATIONS OF ALL TEMPORARY BMP INSTALLED TO CAPTURE ANY WASH WATER USED IN THE CLEANING PROCESS. THE PLAN SHALL INCLUDE INSPECTION AND DOCUMENTATION OF BMP PERFORMANCE PRIOR TO WORK AND IMMEDIATELY FOLLOWING THE WORK. INTERMEDIATE INSPECTION SHALL BE CONDUCTED EVERY 4 HOUR UNTIL WORK IS COMPLETED.

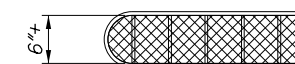
CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, LABOR AND INCIDENTAL ITEMS NECESSARY TO PROPERLY REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER FOREIGN MATERIAL BY POWER SWEEPING, SHOVELING, SCRAPING, ETC. FOLLOWED BY INSTALLING BMPs AS IDENTIFIED IN THE WORK PLAN FOR BRIDGE CLEANING, AND PRESSURE WASHING THE CURB LINES, SHOULDERS, JOINTS, SCUPPERS, DOWNSPOUTS, AND THE BRIDGE SEAT ALONG WITH THE END OF THE BEAMS.

THE FOLLOWING AREAS OF THE BRIDGE ARE TO BE CLEANED:

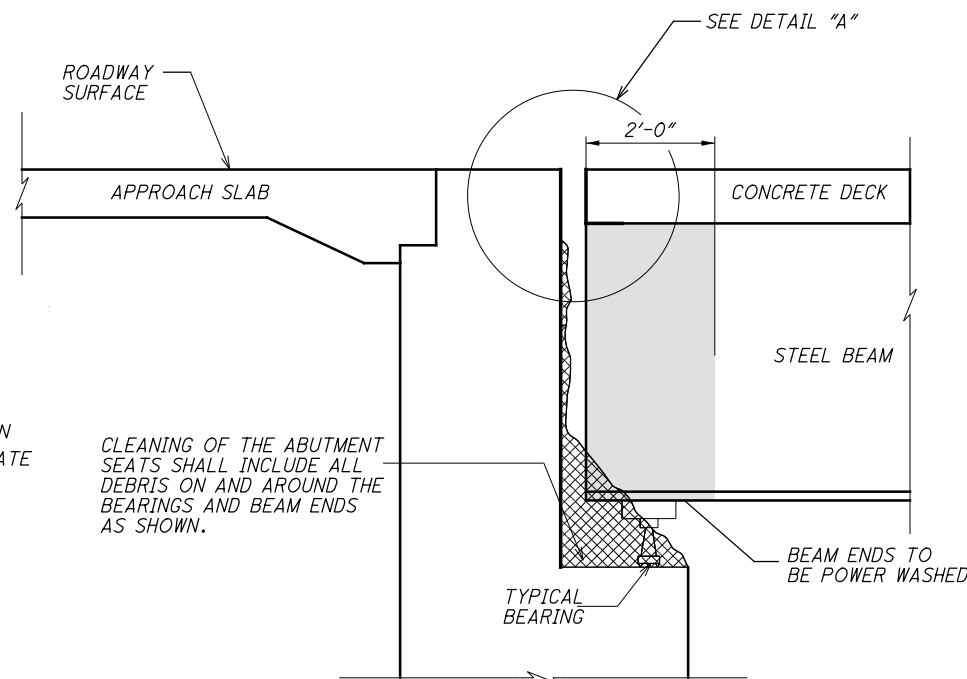
1. CLEANING JOINTS FOR THE FULL WIDTH OF THE BRIDGE:
 - A) PREVENT ALL DIRT, DEBRIS, AND WASHWATER FROM ENTERING ANY DRAINAGE SYSTEM DURING THE CLEANING OPERATIONS.
 - B) REMOVE AND COLLECT LOOSE DEBRIS FROM THE JOINTS PRIOR TO INTRODUCING WATER. CARE SHOULD BE TAKEN WHEN BREAKING UP DEBRIS IN THE JOINTS IN ORDER NOT TO DAMAGE THE ELASTOMERIC SEAL.
 - C) SWEEP AND COLLECT SAND, DEBRIS AND SEDIMENT BY USE PRESSURE WASHING THE JOINTS OR COMPRESSED AIR.
2. CLEANING SCUPPERS AND DOWNSPOUTS:
 - A) USE SHOVEL, HAND SCRAPERS, AND OTHER HAND TOOLS TO BREAK UP DEBRIS IN SCUPPERS TO THE MAXIMUM EXTENT PRACTICABLE. COLLECT LOOSE AND LARGE DEBRIS FROM THE SCUPPERS PRIOR TO INTRODUCING WATER.
 - B) PRESSURE WASH THE SCUPPERS AND DOWNSPOUTS FOR FINAL CLEANING.
 - C) ALL DIRT OR DEBRIS FROM THE CLEANING OPERATION SHALL BE REMOVED.
3. BRIDGE SEATS:
 - A) REMOVE WITH A SHOVEL, BROOM, HAND SCRAPER OR OTHER MECHANICAL MEANS, ALL GROSS SOLIDS FROM THE ENTIRE BEAM SEATS AND AROUND ALL AREAS SURROUNDING THE BEAM BEARINGS, TO THE MAXIMUM EXTENT PRACTICABLE PRIOR TO INTRODUCING WATERS.
 - B) AFTER REMOVING ALL GROSS SOLIDS PRESSURE WASH THE ABUTMENTS, BACKWALLS, BEAM SEATS AND THE END OF THE BEAMS AS SHOWN ON THE PLANS.

LEGEND:

 REMOVE DEBRIS AND OTHER FOREIGN MATERIALS, THEN PRESSURE WASH WITH POTABLE WATER AS DESCRIBED IN THE GENERAL NOTES.

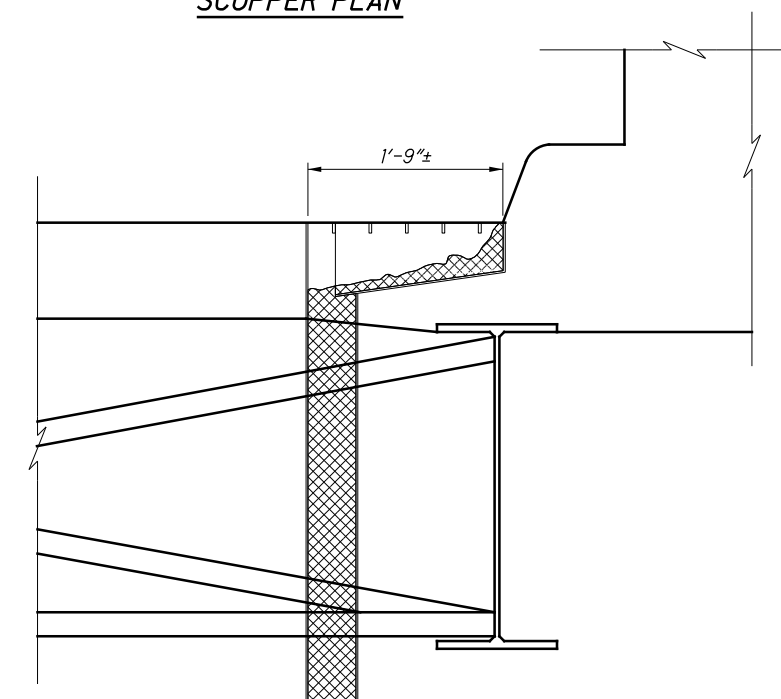


SCUPPER PLAN

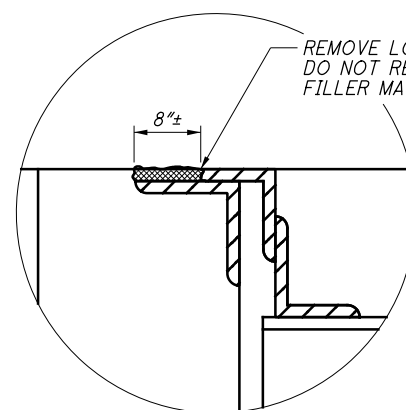


TYPICAL ABUTMENT DETAIL

BACKWALL, ABUTMENT SEAT, BEAM ENDS AND EXPANSION JOINT

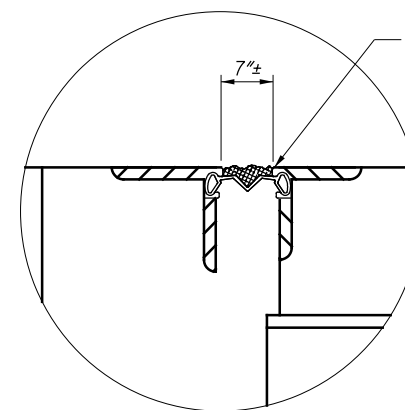


SCUPPER AND DOWNSPOUTS SIDE VIEW



DETAIL "A"
(SLIDING PLATE)

REMOVE LOOSE MATERIAL ONLY. DO NOT REMOVE ELASTIC JOINT FILLER MATERIAL IF PRESENT.



DETAIL "A"
(STRIP SEAL)

AVOID PUNCTURE OR DAMAGE TO SEAL WHILE CLEANING

REMOVE LOOSE MATERIAL ONLY. DO NOT REMOVE ELASTIC JOINT FILLER MATERIAL IF PRESENT.

NOTES:

1. BRIDGE CLEANING TO BE PERFORMED AT THE FOLLOWING BRIDGES:

- SUM-8-0023S
- SUM-8-0038
- SUM-76-1151L
- SUM-76-1154R
- SUM-77-0974R
- SUM-77-0975L
- SUM-77-1132
- SUM-77-1152
- SUM-77-1201

ISSUE RECORD NO.	DATE	DESCRIPTION

STRUCTURE GENERAL NOTES

Released for Construction
Thomas J Powell, PE
10/05/2021

ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN
ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN
ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
ITEM 848 - FULL DEPTH REPAIR, AS PER PLAN

THESE ITEMS SHALL BE PERFORMED PER SUPPLEMENTAL SPECIFICATION "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRO-DEMOLITION" WITH THE FOLLOWING REVISIONS:
 THE THICKNESS OF THE CONCRETE OVERLAY REMOVED, ASPHALT WEARING COURSE REMOVED, PROPOSED OVERLAY, AND THE DEPTH OF HYDRODEMOLITION SHALL BE AS SPECIFIED IN THE PLANS. CONSTRUCTION JOINTS WILL NOT BE PERMITTED IN THE WHEEL LINE.
 (SEE 848.12) THE COMPONENTS OF THE MICRO-SILICA MODIFIED CONCRETE SHALL BE PROPORTIONED AS FOLLOWS.

CONCRETE TABLE
QUANTITIES PER CUBIC YARD
AGGREGATES (SSD)

AGG TYPE	FINE AGG (LB)	#8 COARSE AGG (LB) *	AGG TOTAL (LB) *	CEMENT CONTENT (LB)	MICRO SILICA (LB)	WATER TO CEMENT-ITIOUS RATIO	AIR CONTENT +/- 2%	FIBER (1/4" POLYPROPYLENE) (LB) **
GRAVEL	1410	1430	2840	600	50	0.4	8	1
LIME-STONE	1410	1450	2860	600	50	0.4	8	1
SLAG	1300	1350	2650	600	50	0.4	8	1

* ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127
 ** FIBER MESH SHALL BE 100% VIRGIN POLYPROPYLENE IN A FIBRILLATED-NETWORK FORM AND SHALL BE 1/4" IN LENGTH.

THE WEIGHTS SPECIFIED IN THE CONCRETE TABLE WERE CALCULATED FOR MATERIALS OF THE FOLLOWING BULK SPECIFIC GRAVITIES (SSD): NATURAL SAND AND GRAVEL 2.62, LIMESTONE SAND 2.68, LIMESTONE 2.65, SLAG 2.30, MICRO-SILICA SOLIDS 2.20, AND PORTLAND CEMENT 3.15. FOR AGGREGATES OF SPECIFIC GRAVITIES DIFFERING MORE THAN PLUS OR MINUS 0.02 FROM THESE, THE WEIGHTS IN THE TABLE WILL BE CORRECTED. FIBER MESH WEIGHTS NOT INCLUDED IN MIX DESIGN. ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED BY ASTM C127 ALL OTHER REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION SHALL REMAIN IN EFFECT.
 (SEE 848.21) THE FINAL DECK SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY.
 (SEE 848.23) FULL DEPTH REPAIR IS NOT REQUIRED IF LESS THAN ONE HALF OF THE DECK ORIGINAL CONCRETE THICKNESS IS SOUND.
 (SEE 848.29) THE WET CURE TIME IS REDUCED FROM 72 HOURS TO 24 HOURS OR UNTIL A BEAM BREAK OF 600 PSI IS ACHIEVED, WHICHEVER IS GREATER. AFTER THE 24 HOUR WET CURE, THE FINISHED OVERLAY SURFACE SHALL BE CURED BY SPRAYING A UNIFORM APPLICATION OF CURING MATERIAL OF 705.07, TYPE 1 OR 1D, AS PER CMS 511.14 METHOD (B) MEMBRANE CURING. IF THE CURING COMPOUND CAN NOT BE PLACED WITHIN THE SAME SHORT TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, AND SHALL, AT THE NEXT AVAILABLE SHORT TERM CLOSURE PERIOD, APPLY THE MEMBRANE CURING COMPOUND.

ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN
ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN
ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
ITEM 848 - FULL DEPTH REPAIR, AS PER PLAN (CONT'D)

(SEE 848.29) TRAFFIC WILL NOT BE PERMITTED ON THE FINISHED OVERLAY SURFACE UNTIL AFTER THE COMPLETION OF THE 24 HOUR WET CURE, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 600 PSI
 (4.2 Mpa). (SEE 848.30) THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. THEY ARE NOT IN EFFECT FROM 11:00 PM TO 11:00 AM.
 (SEE 848.31) FOR EACH PHASE, THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 12 HOURS, 24 HOURS, 36 HOURS, AND 48 HOURS. THE DEPARTMENT WILL PERFORM THE BEAM BREAK TESTS AND DOCUMENT THE TIME OF THE POUR, THE TIME OF THE BEAM BREAK TESTS, AND THE MODULUS OF RUPTURE FOR EACH BEAM UNTIL THE MODULUS OF RUPTURE OF THE TWO TESTS IS NOT LESS THAN 650 PSI (4.5 Mpa). TRAFFIC IS ALLOWED ON THE OVERLAY AT 600 PSI (4.5 Mpa). ALL OTHER REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION SHALL REMAIN IN EFFECT.

THE FOLLOWING ESTIMATED QUANTITIES WERE PROVIDED BY ODOT AT BID TIME:

ITEM 848, HAND CHIPPING
 390 SY - SUM-76-1151L
 465 SY - SUM-76-1154R
 210 SY - SUM-77-0974R
 210 SY - SUM-77-0975L
 300 SY - SUM-77-1082
 300 SY - SUM-77-1096

ITEM 848, FULL DEPTH REPAIR
 2 CY - SUM-76-1151L
 2 CY - SUM-76-1154R
 2 CY - SUM-77-0974R
 2 CY - SUM-77-0975L
 2 CY - SUM-77-1082
 2 CY - SUM-77-1096

ITEM SPECIAL - CONCRETE OVERLAY, VARIABLE THICKNESS, MATERIAL ONLY
 20 CY - SUM-76-1151L
 20 CY - SUM-76-1154R
 10 CY - SUM-77-0974R
 10 CY - SUM-77-0975L
 20 CY - SUM-77-1085
 20 CY - SUM-77-1096

ISSUE RECORD NO.	DATE	DESCRIPTION

GENERAL NOTES (5 OF 5)

DESIGN AGENCY: **PRIME**
 8415 Atlas Plaza
 Columbus, Ohio 43231

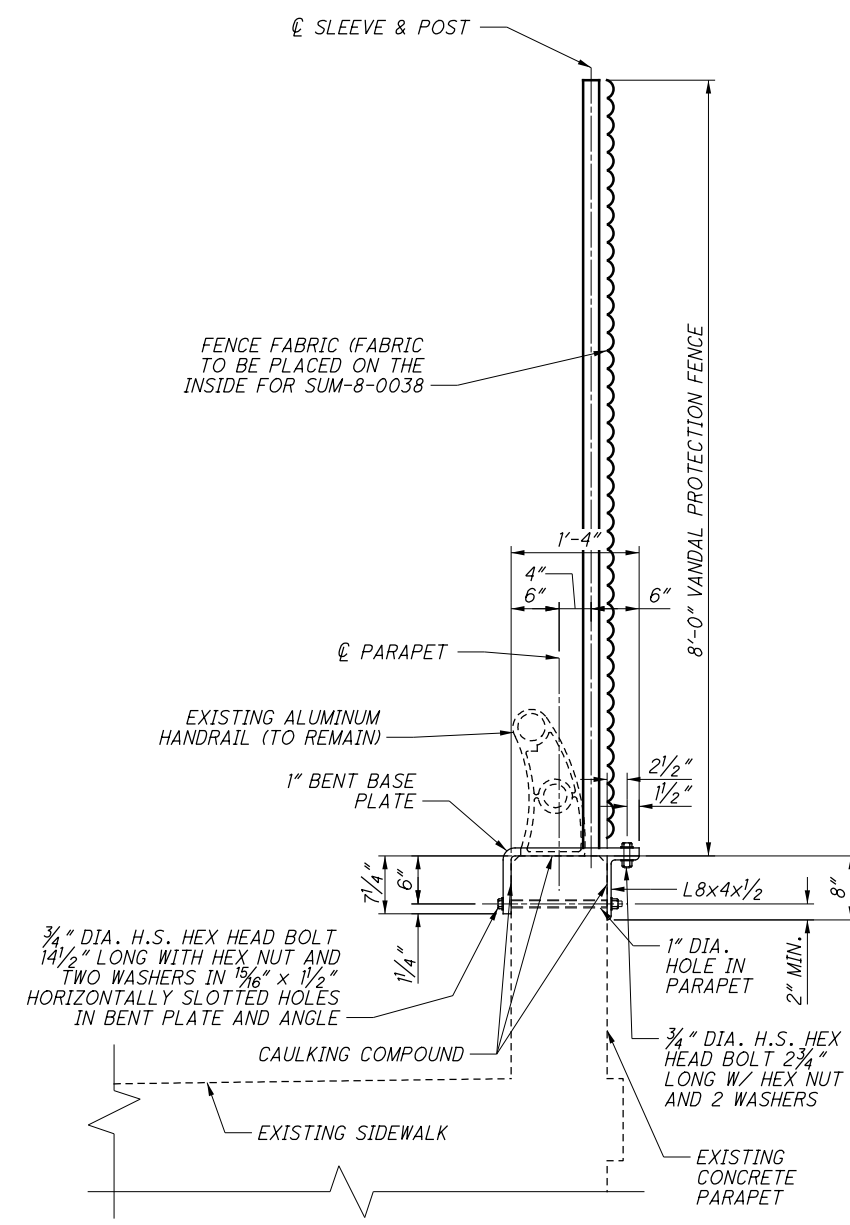
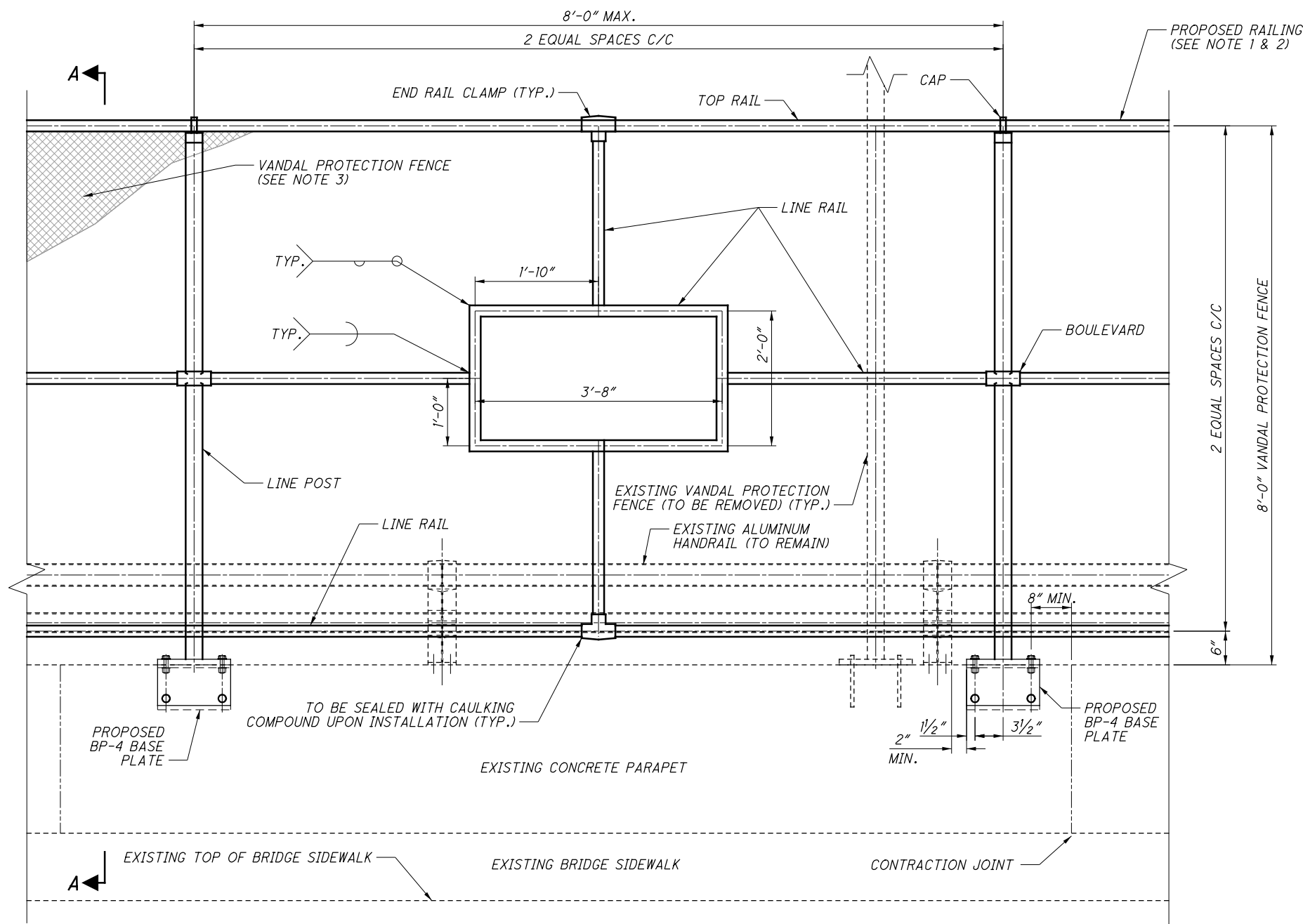
DESIGNED: KDC
 CHECKED: JAT
 DRAWN: KDC
 REVISED:
 REVIEWED: SAN
 DATE: 6/18/21
 STRUCTURE FILE NUMBER:

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

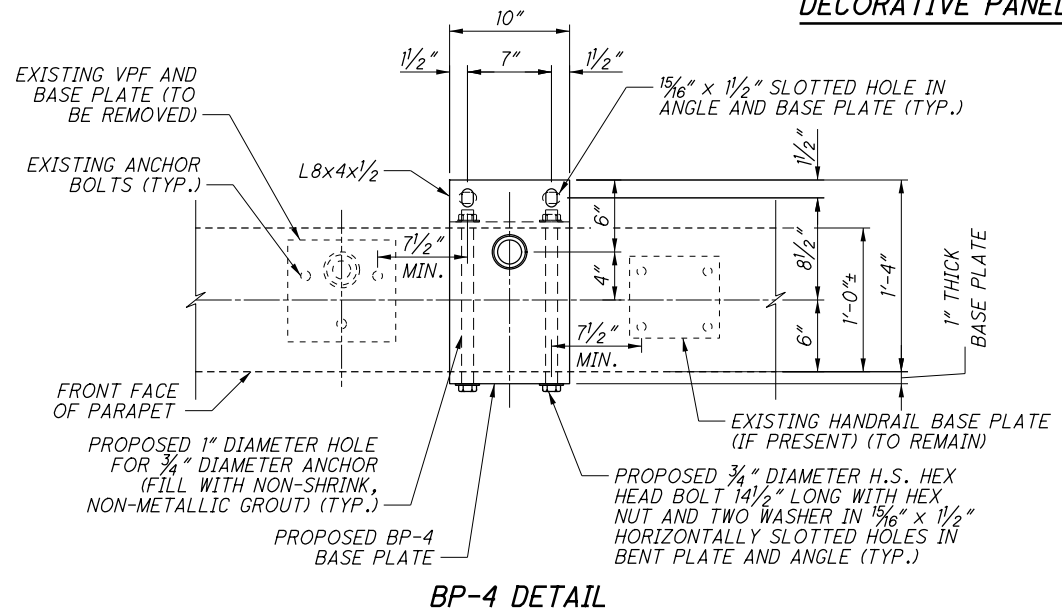
7
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2021-09-22_BU 15 - RFC PLANS

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DECORATIVE PANEL DETAIL



NOTES:

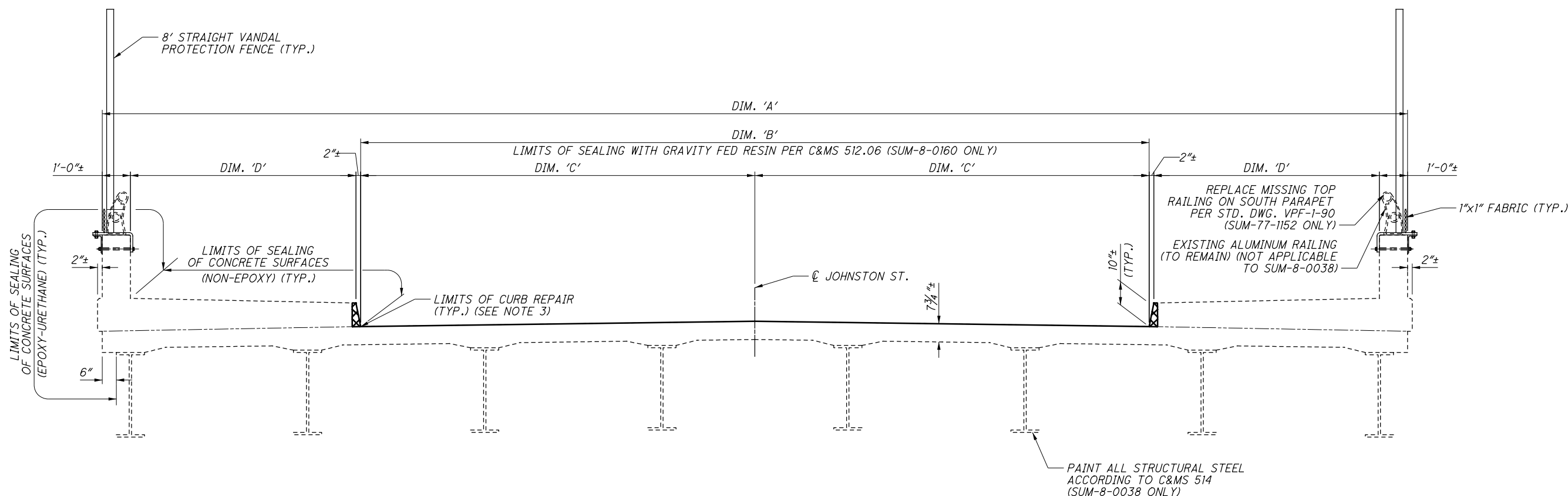
- ALL POSTS, RAILS, CAPS, AND ANY OTHER VISIBLE HARDWARE SHALL BE GALVANIZED AND POWDER COATED BLACK (FEDERAL COLOR NO. 27038).
- NEW ORNAMENTAL RAILING TO HAVE GEOMETRIC PATTERN DETAILED ABOVE.
- EIGHT (8) FEET HIGH ODOT STANDARD PROTECTIVE FENCING (1" MESH) PER ODOT SCD VPF-1-90 IS REQUIRED. 1" VANDAL PROTECTIVE MESH SHALL BE ATTACHED TO THE PROPOSED ORNAMENTAL FENCE.
- FOR INFORMATION NOT SHOWN, REFER TO SCD VPF-1-90.
- DECORATIVE PANEL TO BE SPACED EVERY THIRD PANEL.
- THIS WORK WILL BE PERFORMED AT THE FOLLOWING BRIDGE LOCATIONS:

- | | |
|------------|-------------|
| SUM-8-0038 | SUM-77-1022 |
| SUM-8-0117 | SUM-77-1132 |
| SUM-8-0125 | SUM-77-1152 |

ISSUE RECORD NO.	DATE	DESCRIPTION

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TRANSVERSE SECTION
 (SUM-8-0038 SHOWN, OTHERS SIMILAR)

BRIDGE	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	BRIDGE LIMITS ALONG CL CONST.	APPROACH SLAB LENGTH (PER SIDE)
SUM-8-0038	46'-4"±	28'-0"±	14'-0"±	8'-0"±	308'-7 5/8"±	23'-7 3/8"± (REAR) 26'-0"± (FORWARD)
SUM-8-0117	62'-6 1/2"±	44'-0"±	22'-0"±	7'-11 1/4"±	119'-7 7/8"±	15'-0"±
SUM-8-0125	62'-6 1/2"±	44'-0"±	22'-0"±	7'-11 1/4"±	119'-8 1/8"±	15'-0"±
SUM-8-0160	68'-0"±	52'-0"±	26'-0"±	7'-0"±	216'-11 5/8"±	20'-0"±
SUM-59-0341	66'-6"±	59'-0"±	31'-0"± (L.T.) 28'-0"± (RT.)	5'-0"± (RT. ONLY)	120'-6 1/4"±	25'-0"±
SUM-77-1022	42'-8"±	30'-0"±	15'-0"±	5'-2"±	162'-10 3/8"±	25'-0"±
SUM-77-1132	60'-8"±	48'-0"±	24'-0"±	5'-0"±	158'-0"±	25'-0"±
SUM-77-1152	60'-8"±	48'-0"±	24'-0"±	5'-0"±	152'-0"±	25'-0"±

LEGEND:

- LIMITS OF CURB REPAIR

NOTES:

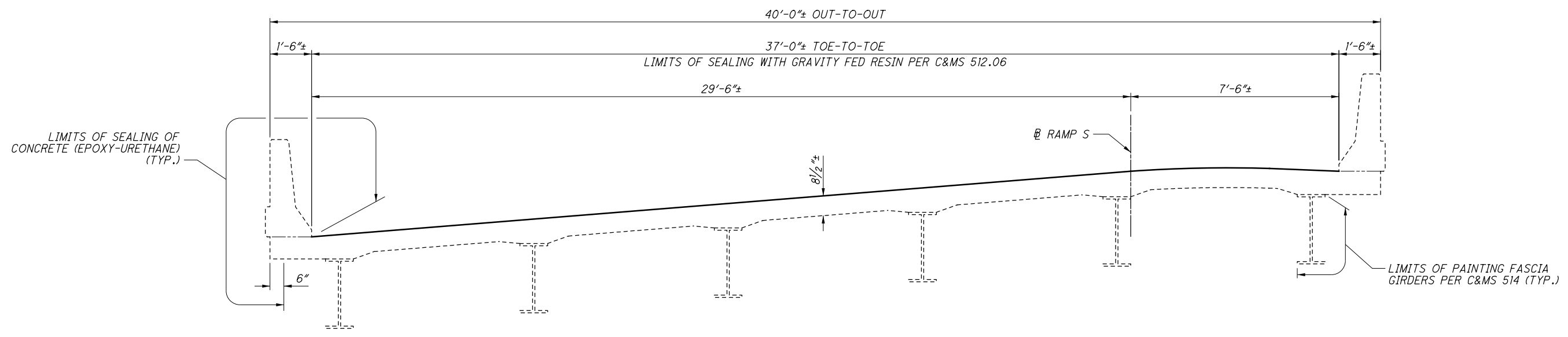
- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- FOR VANDAL PROTECTION FENCE DETAILS, SEE SHEETS 8/65.
- PERFORM CURB REPAIR AT BRIDGE NO. SUM-77-1132 & SUM-77-1152 AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL DETAILS, SEE SHEET 4/65.
- THE FOLLOWING BRIDGES REQUIRE SEALING OF CONCRETE SURFACES:

SUM-8-0038
 SUM-8-0117
 SUM-8-0125
 SUM-8-0160
 SUM-59-0341
 SUM-77-1022
 SUM-77-1132
 SUM-77-1152

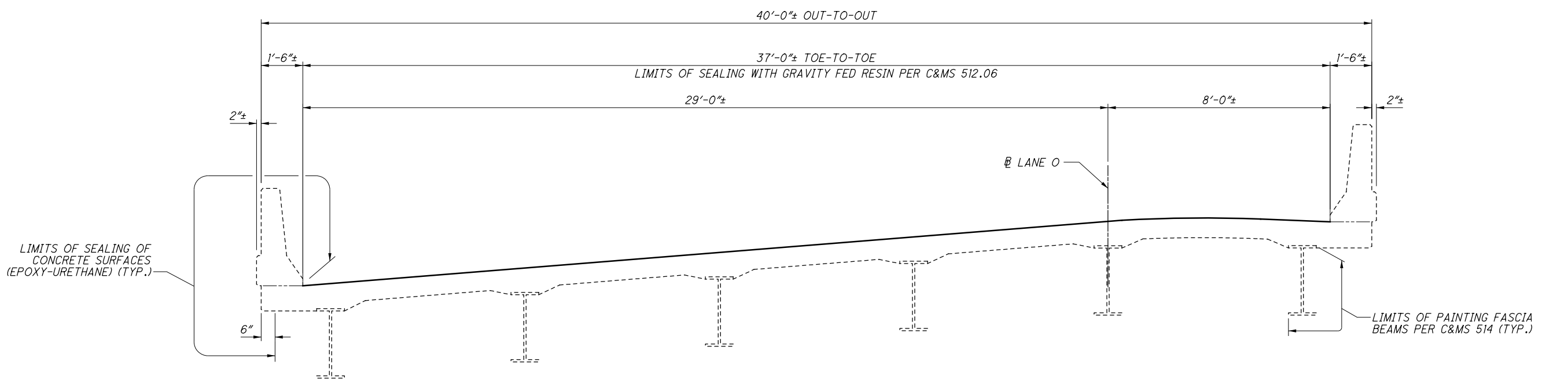
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ISSUE RECORD NO.	DATE	DESCRIPTION



TRANSVERSE SECTION
 (SUM-8-0023S)



TRANSVERSE SECTION
 (SUM-77-1201)

NOTES:

- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.

2021-09-22_BU 15 - RFC PLANS

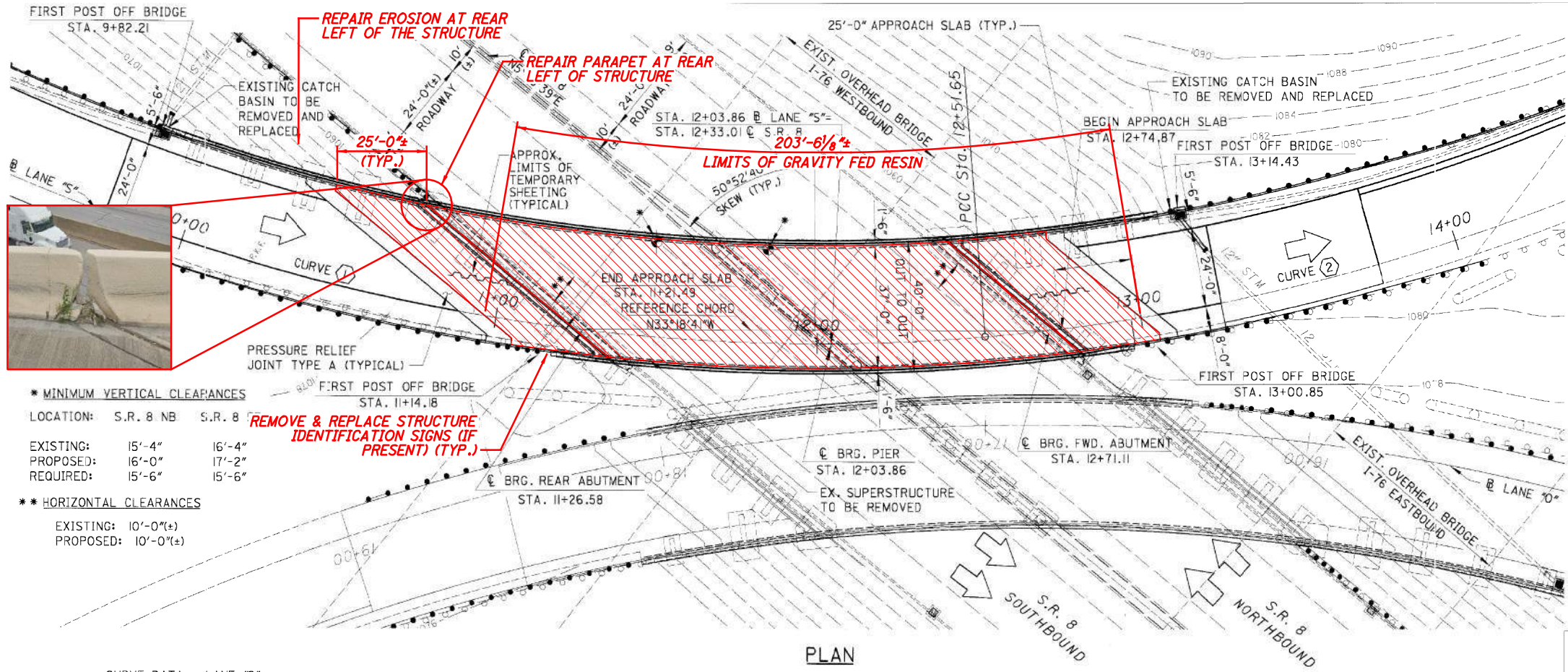
DESIGN AGENCY: **PRIME**
 8415 Parkside Plaza
 Columbus, Ohio 43231

DESIGNED	KDC	CHECKED	JAT
DRAWN	KDC	REVISED	
REVIEWED	SAN	STRUCTURE FILE NUMBER	7700040/7702973
DATE	6/18/21		

TRANSVERSE SECTIONS (2 OF 2)
 BRIDGE NO. SUM-8-0023S, SUM-77-1201
 RAMP S (SR-8 SB TO EB I-76 EB) & I-77 LANE O OVER SR-8

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

10
65



*** MINIMUM VERTICAL CLEARANCES**

LOCATION:	S.R. 8 NB	S.R. 8
EXISTING:	15'-4"	16'-4"
PROPOSED:	16'-0"	17'-2"
REQUIRED:	15'-6"	15'-6"

**** HORIZONTAL CLEARANCES**

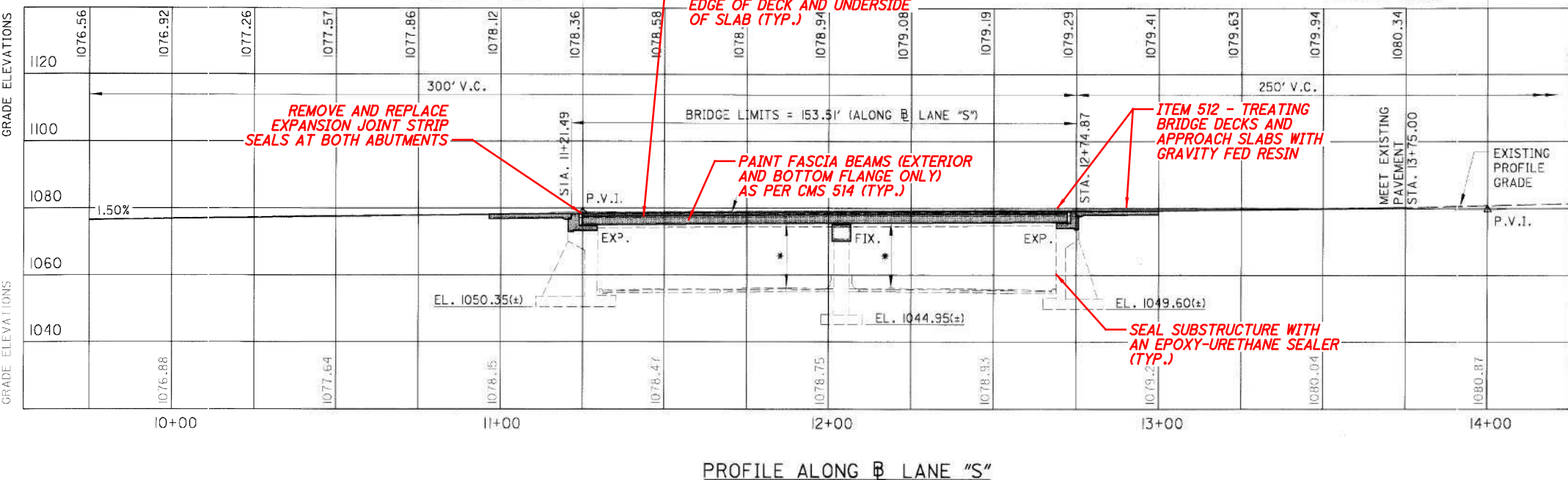
EXISTING:	10'-0"±
PROPOSED:	10'-0"±

CURVE DATA - LANE "S"

CURVE (1)	CURVE (2)
P.I. Sta = 10+37.11	P.I. Sta = 16+54.90
D = 40°22'30" (LT)	D = 64°19'06" (LT)
Dc = 9°00'00"	Dc = 8°56'00"
R = 636.62'	R = 641.37'
T = 234.07'	T = 403.25'
L = 448.61'	L = 719.98'
E = 41.67'	E = 116.24'

NOTES:

- THE REFERENCE CHORD IS A STRAIGHT LINE CONNECTING THE INTERSECTIONS OF THE ABUTMENT CENTERLINES OF BEARING AND THE SURVEY BASELINE OF LANE "S".
- ELEVATION DATUM: ALL CURRENT PLAN ELEVATIONS ARE BASED ON NAVD-88 DATUM. EXISTING PLAN ELEVATIONS ARE BASED ON NAVD-29 DATUM. TO CONVERT EXISTING PLAN ELEVATIONS TO CURRENT, SUBTRACT 0.65'



BENCHMARK #1

CHISELED Δ IN NORTH CORNER OF NORTH ABUT. OF LANE "0" BRIDGE OVER S.R. 8, 2' SOUTH OF THE SOUTH PIER COLUMN FOR I-76 WESTBOUND

STA. 17+91 @ LANE "0", 9' RT ELEV. 1076.27

BENCHMARK #2

"X" CUT IN THE TOP OF NE ANCHOR BOLT OF TOWER LIGHT BETWEEN EAST AND WESTBOUND LANES OF I-76, 150' WEST OF RAMP "0" BRIDGE

STA. 17+88 @ LANE "0", 127' LT ELEV. 1077.07

TRAFFIC DATA

LANE "S"

CURRENT ADT (2001) = 7220
 DESIGN ADT (2021) = 7970
 ADTT (2021) = 7%

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

NOTES:

- FOR GENERAL NOTES, SEE SHEET [3/65] THRU [7/65].
- FOR TRANSVERSE SECTION, SEE SHEET [10/65].

LEGEND:

▨ - LIMITS OF GRAVITY FED RESIN

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS ROLLED BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 72'-1 5/16"±, 72'-1 5/16"±, ALONG REFERENCE CORD

ROADWAY: 37'-0"± TOE TO TOE PARAPET
 40'-0"± OUT TO OUT OF DECK

LOADING: HS25 (CASE II) AND THE ALTERNATE MILITARY LOADING

WEARING SURFACE: 1" MONOLITHIC CONCRETE

SKEW: 50°52'40"± RIGHT FORWARD

APPROACH SLABS: 25'-0"± LONG (AS-1-81)

ALIGNMENT: 9°00'00"± & 8°56'00"± CURVE LEFT

SUPERELEVATION: 0.08± FT/FT

COORDINATES: LATITUDE 41°03'43.0"± N
 LONGITUDE 81°30'17.2"± W

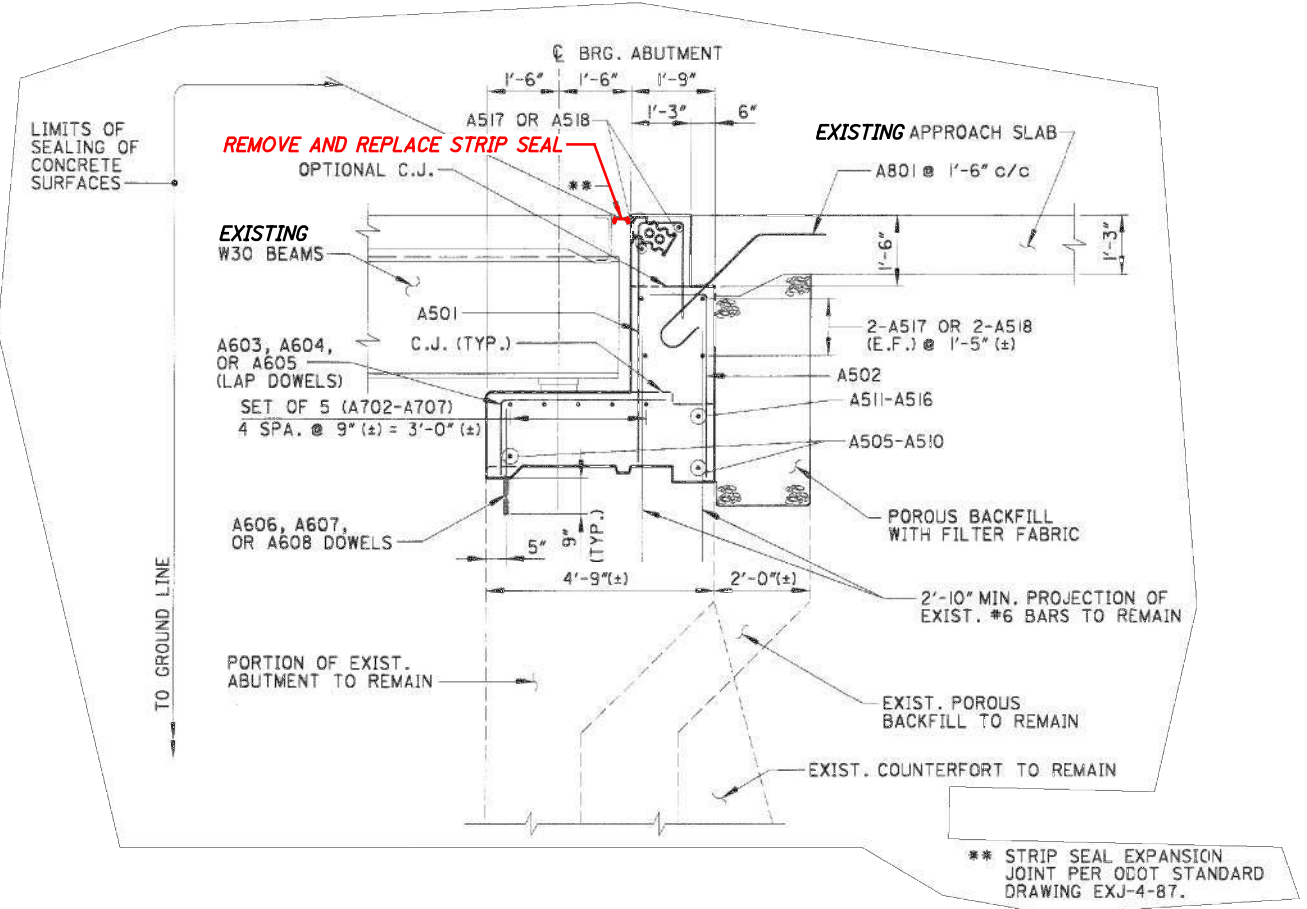
ISSUE RECORD NO.	DATE	DESCRIPTION

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2021-09-22_BU15 - RFC PLANS

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ISSUE RECORD NO.	DATE	DESCRIPTION



ABUTMENT SECTION

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

NOTES:

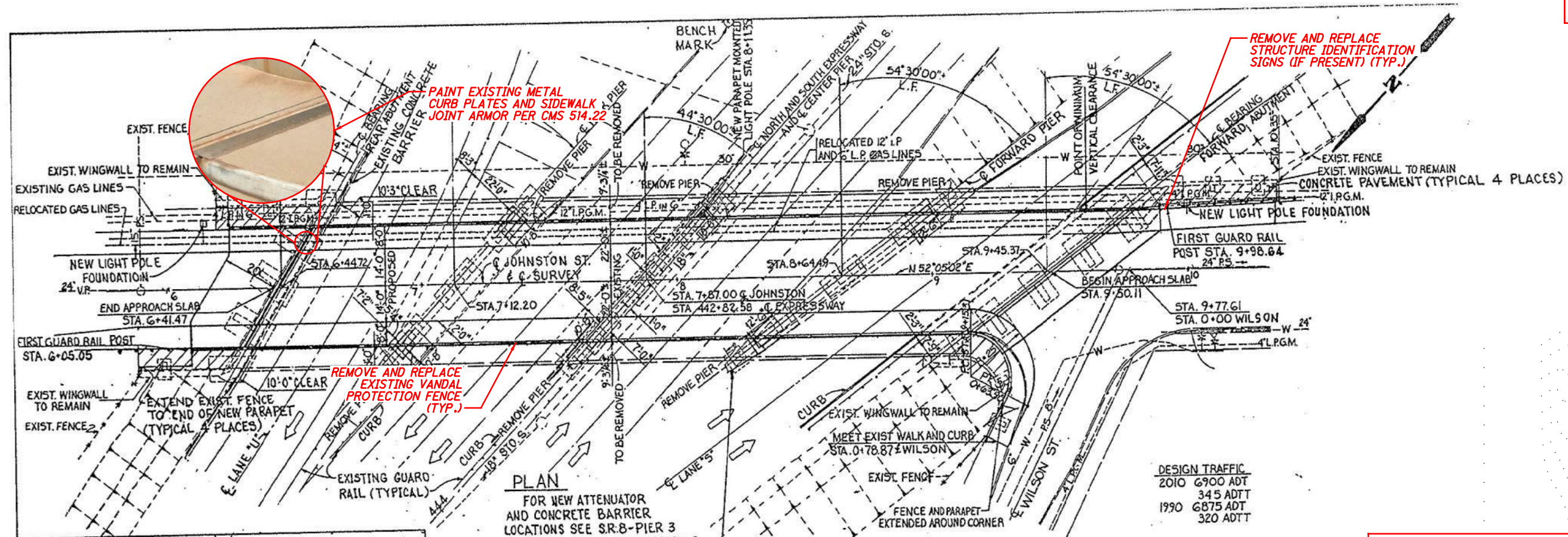
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.

2 / 2 12 / 65	EXPANSION JOINT DETAILS BRIDGE NO. SUM-8-0023S RAMP S (SR-8 SB TO I-76 EB)	DESIGNED: KDC CHECKED: JAT	DRAWN: KDC REVISED:	REVIEWED: SAN DATE: 6/18/21 STRUCTURE FILE NUMBER: 7700040	DESIGN AGENCY: PRIME 8415 Atlas Plaza Columbus Ohio 43231
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2021-09-22_BU 15 - RFC PLANS

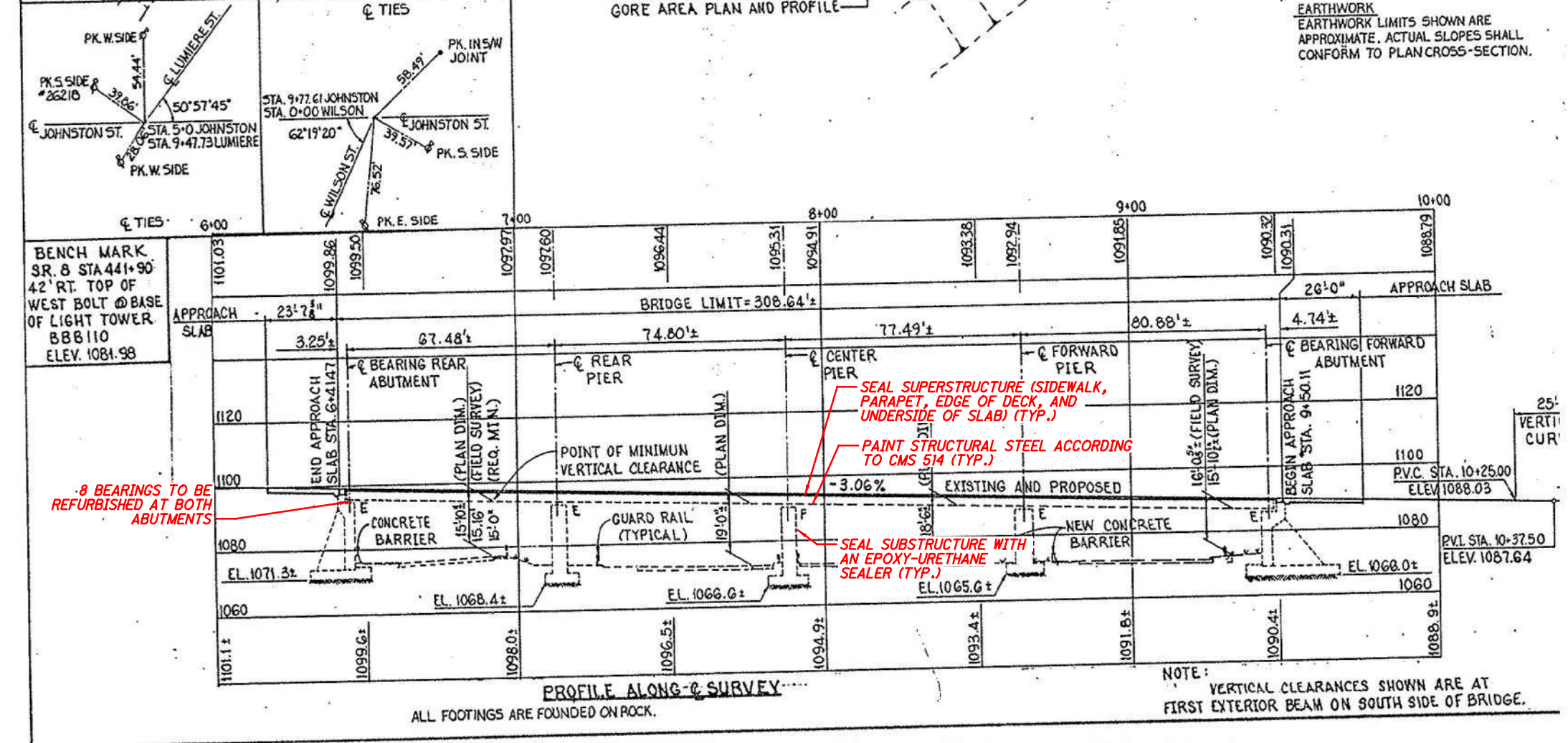
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ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 3/65 THRU 7/65.
 - FOR TRANSVERSE SECTION, SEE SHEET 9/65.



EXISTING STRUCTURE

TYPE: FOUR SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK

SPANS: 67'-5 3/4"±, 74'-9 5/8"±, 77'-5 5/8"±, 80'-10 9/16" ALONG REFERENCE CORD

ROADWAY: 28'-0"

SIDEWALKS: 2 AT 8'-0"

LOADING: HS 20-44 AND ALTERNATE MILITARY

WEARING SURFACE: 1" MONOLITHIC CONCRETE

SKEW: VARIES

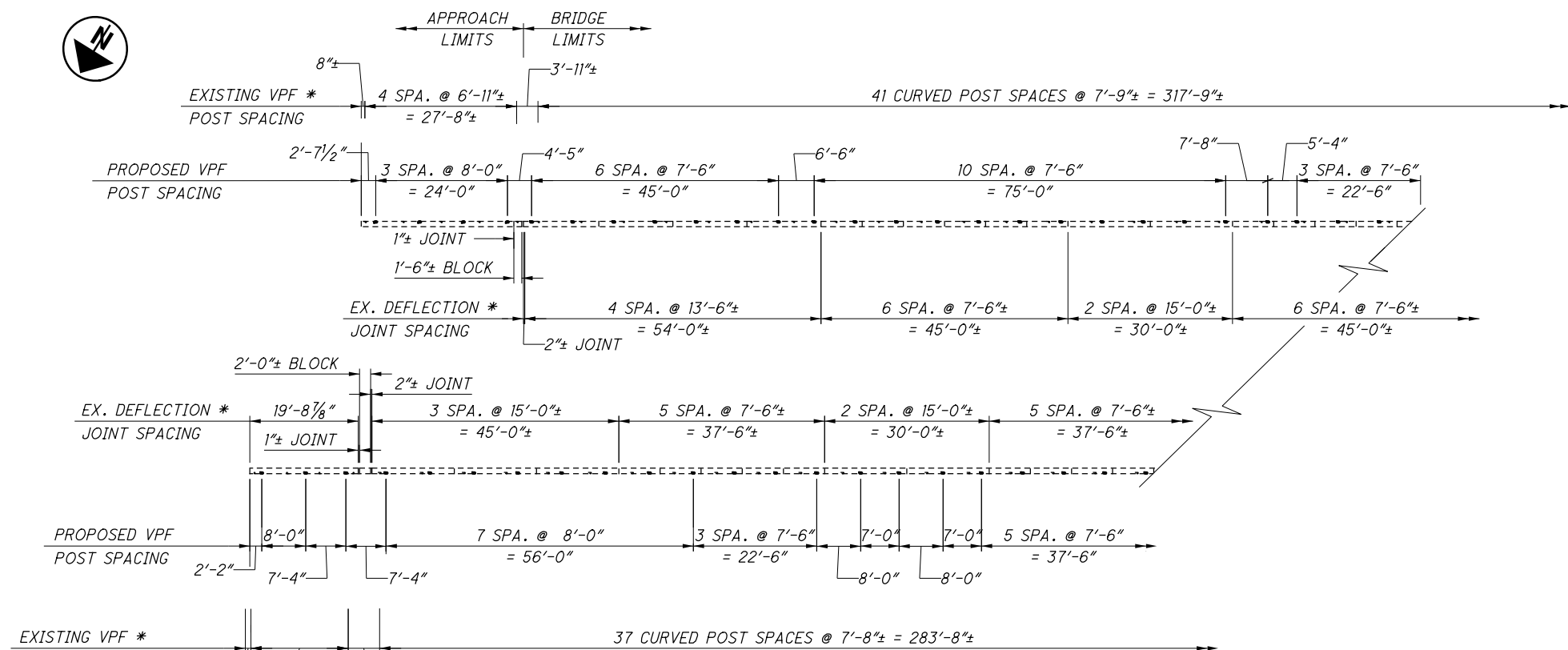
APPROACH SLABS: 26'-0"± LONG (FORWARD)
 23'-7 3/8" LONG (REAR) (AS-I-81)

ALIGNMENT: PARALLEL TO C/L OF JOHNSTON STREET

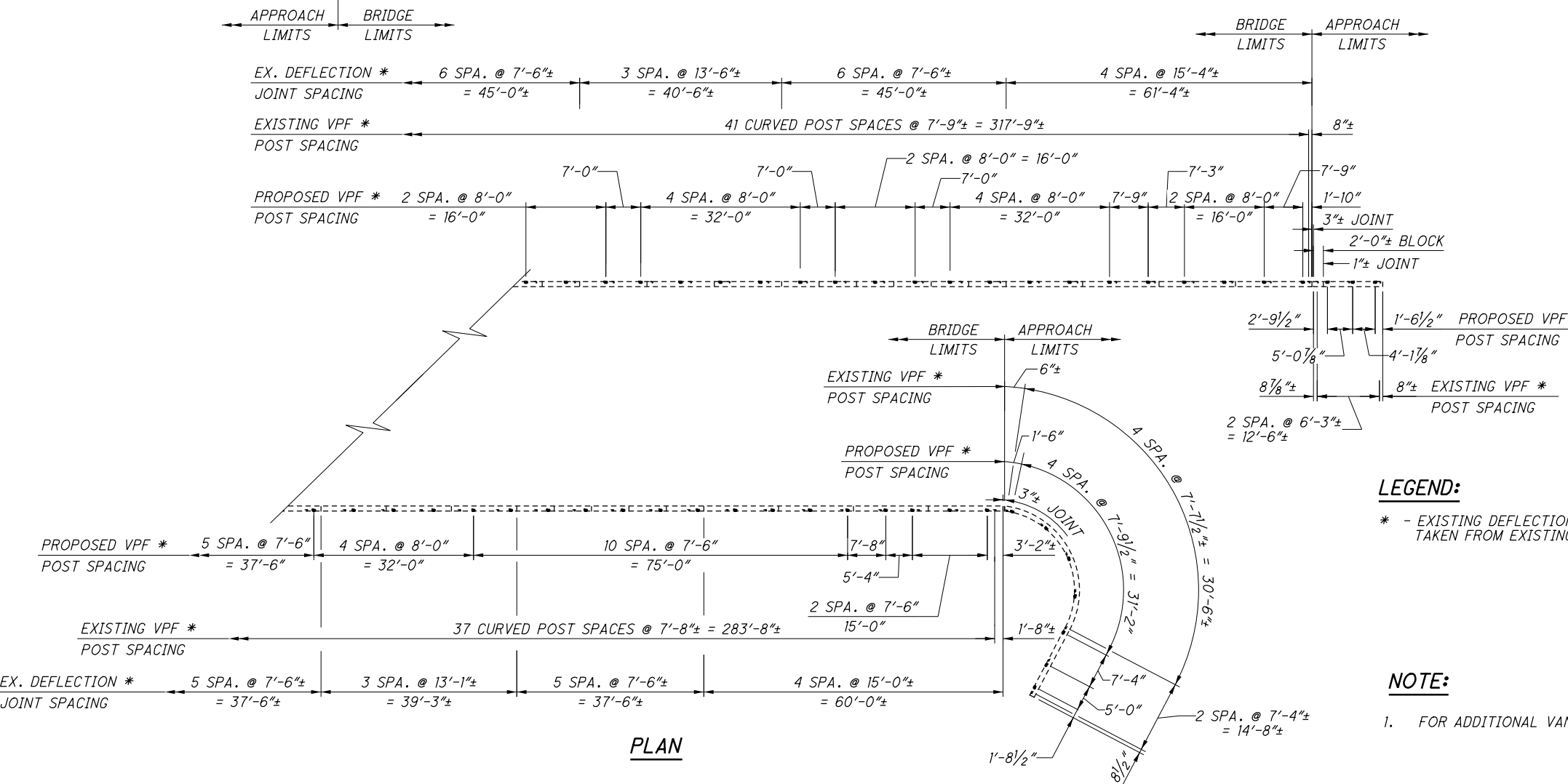
COORDINATES: LATITUDE 41°03'51.3"± N
 LONGITUDE 81°30'16.2"± W

2021-09-22_BU 15 - RFC PLANS

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PLAN



PLAN

LEGEND:

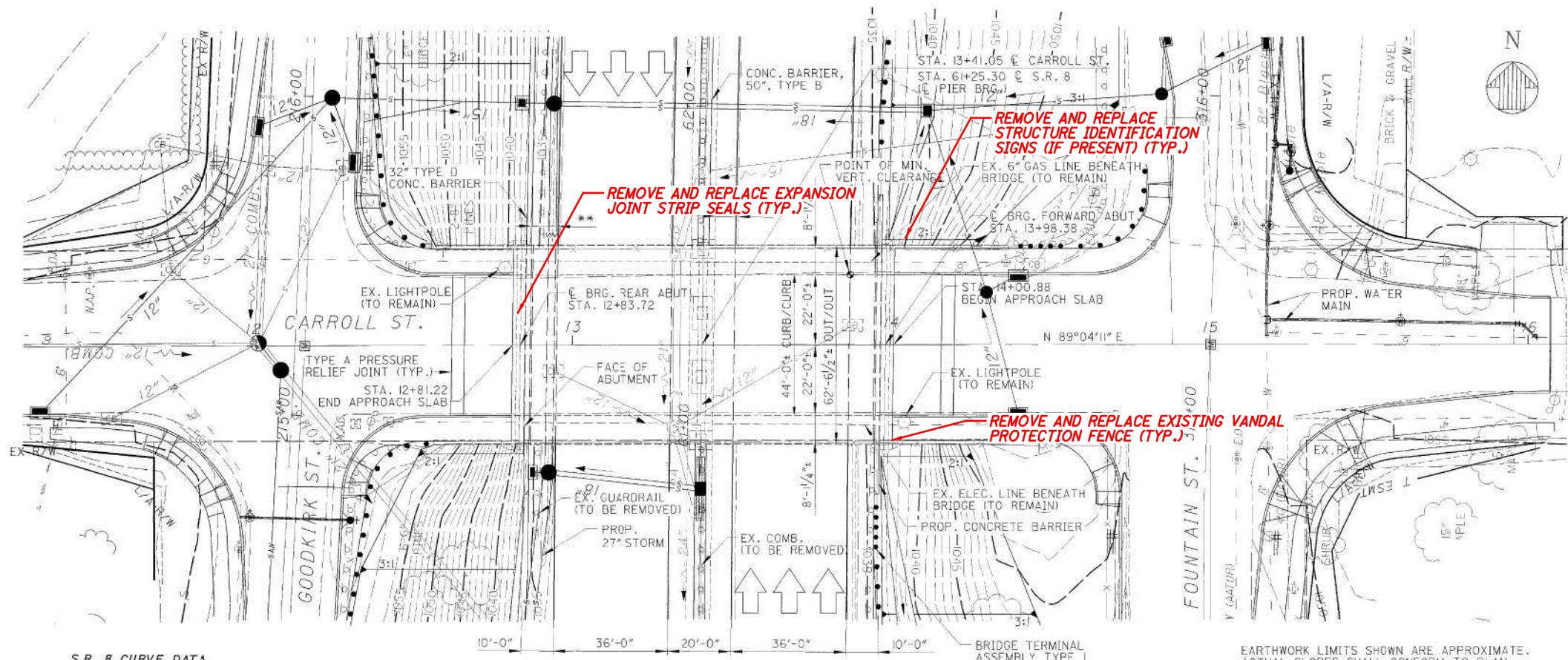
* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM EXISTING PLANS.

NOTE:

1. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

ISSUE RECORD NO.	DATE	DESCRIPTION

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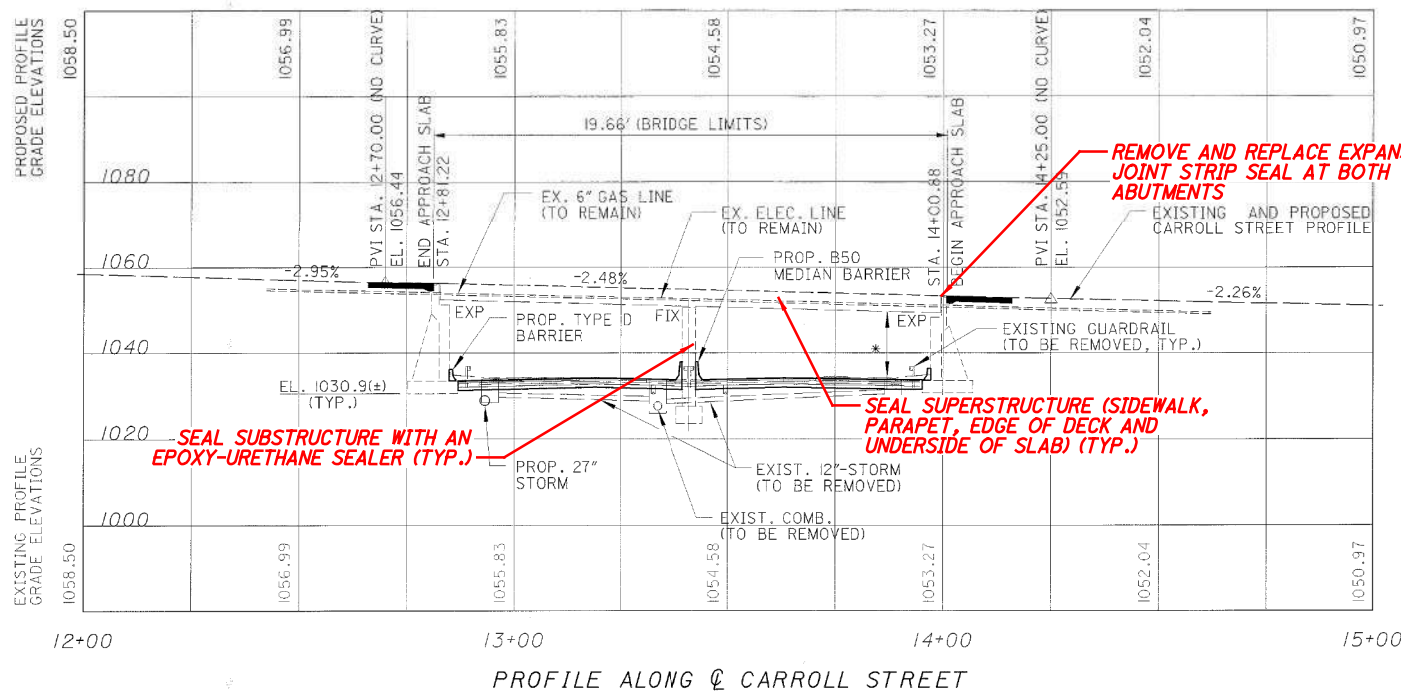
S.R. 8 CURVE DATA

P.I. STA. - 67+45.23
$\Delta = 7^\circ 46' 07''$ (RT)
$D_c = 0^\circ 30' 13''$
$R = 11,375.75'$
$T = 772.39'$
$L = 1,542.41'$
$E = 26.19'$

PLAN

EARTHWORK LIMITS SHOWN ARE APPROXIMATE.
 ACTUAL SLOPES SHALL CONFORM TO PLAN
 CROSS-SECTIONS

**ORIGINAL CONSTRUCTION
 PLANS SHOWN FOR
 INFORMATION ONLY**



PROFILE ALONG ϕ CARROLL STREET

NOTES:

1. FOR GENERAL NOTES, SEE SHEET **3/65** THRU **7/65**.
2. FOR TRANSVERSE SECTION, SEE SHEET **9/65**.

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 57'-4"±, 57'-4"±, C-C BEARINGS

ROADWAY: 44'-0" (±) FACE TO FACE CURBS
 62'-6 1/2" (±) OUT TO OUT OF DECK

LOADING: HS 20-44 (CASE II) AND THE ALT. MILITARY LOADING

WEARING SURFACE: 1 1/4" LATEX MODIFIED CONCRETE

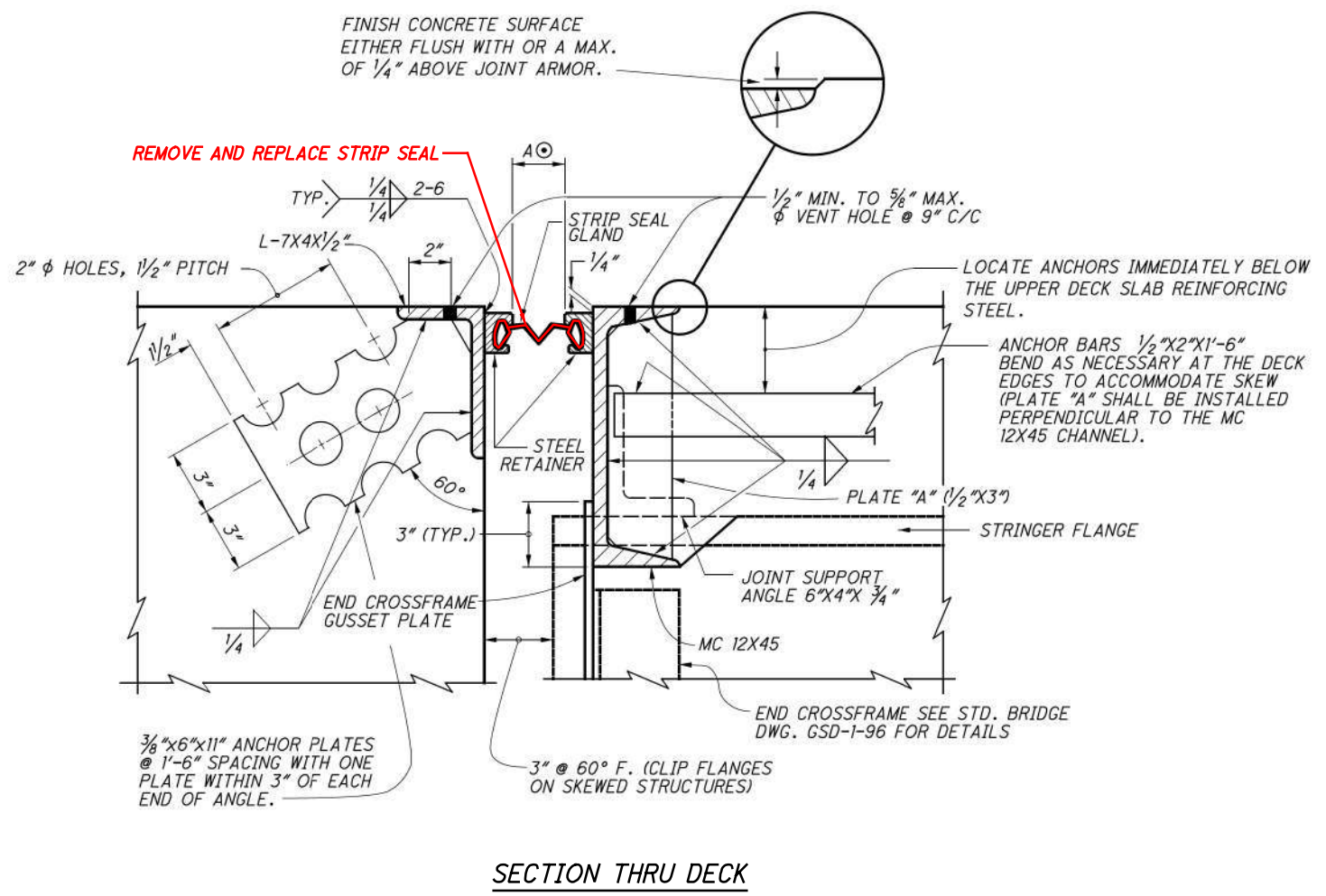
SKEW: 0°42'32"± LEFT FORWARD

APPROACH SLABS: 15'-0"± LONG (AS-1-81)

ALIGNMENT: TANGENT

COORDINATES: LATITUDE 41°04'31.3"± N
 LONGITUDE 81°30'16.2"± W

ISSUE RECORD NO.	DATE	DESCRIPTION



ITEM 516. ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN:

THIS ITEM SHALL INCLUDE REMOVAL AND REPLACEMENT OF THE EXISTING 3" STRIP SEAL GLANDS FROM FACE-TO-FACE OF CURB. THE CONSTRUCTION PLANS INDICATE THAT THE ELASTOMERIC SEAL WAS INSTALLED WITH AN ADHESIVE. UPON REMOVAL OF THE SEAL, THE CONTRACTOR SHALL ATTEMPT TO MATCH THE REPLACEMENT SEAL AS CLOSELY AS POSSIBLE WITH THE EXISTING SO AS TO PROVIDE A SNUG, WATERTIGHT SEAL. THE STRIP SEAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF STANDARD DRAWING EXJ-4-87.

THIS WORK WILL BE PAID FOR AT THE CONTRACT PRICE BID, PER LINEAL FOOT, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, WITH THE PERTINENT PROVISIONS OF 516, AND TO THE SATISFACTION OF THE ENGINEER.

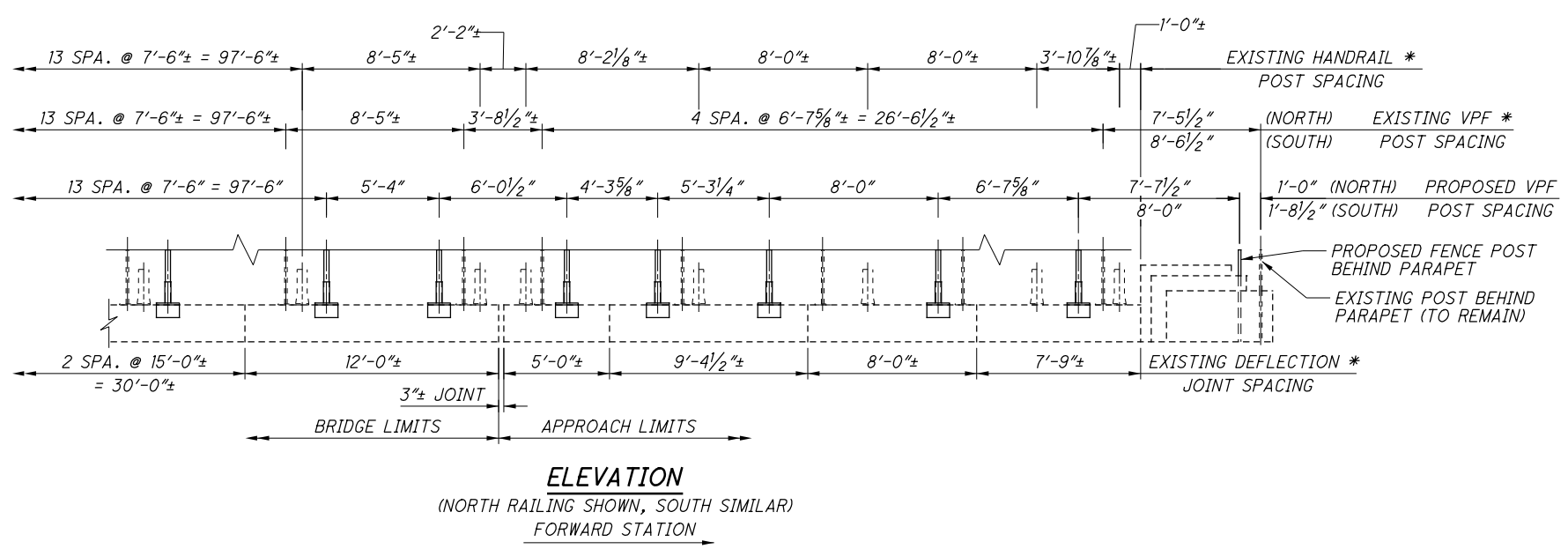
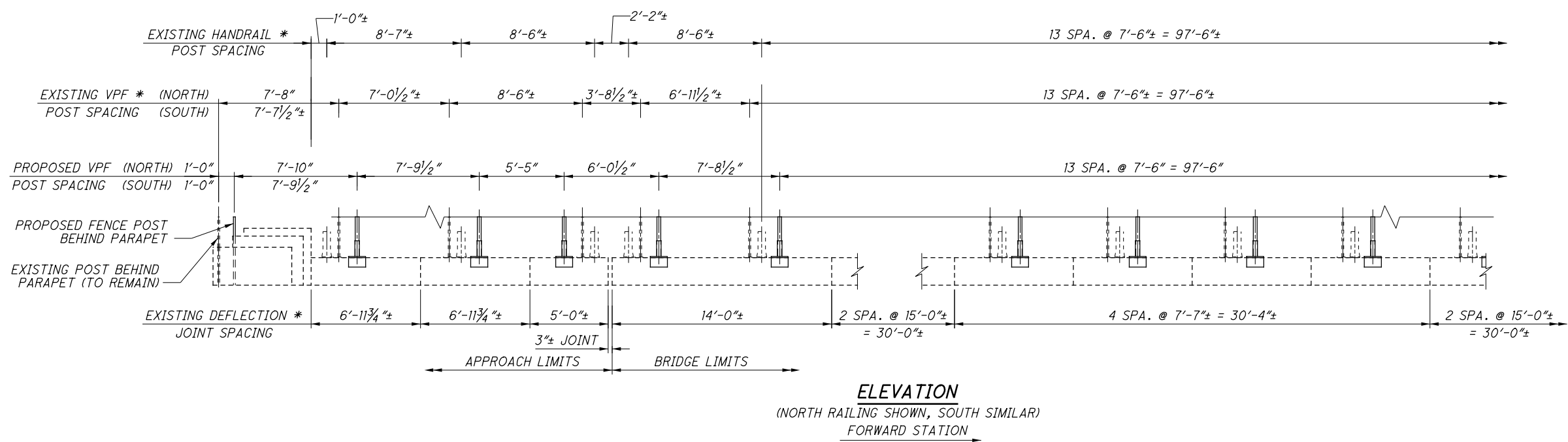
ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

- NOTES:**
1. REMOVE AND REPLACE THE 3" EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.
 2. NO EXISTING PLANS ON STRIP SEAL WERE AVAILABLE. DETAILS SHOWN ARE FROM ODOT STD. DWG. EXJ-4-87.

ISSUE RECORD NO.	DATE	DESCRIPTION

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ISSUE RECORD NO.	DATE	DESCRIPTION



LEGEND:

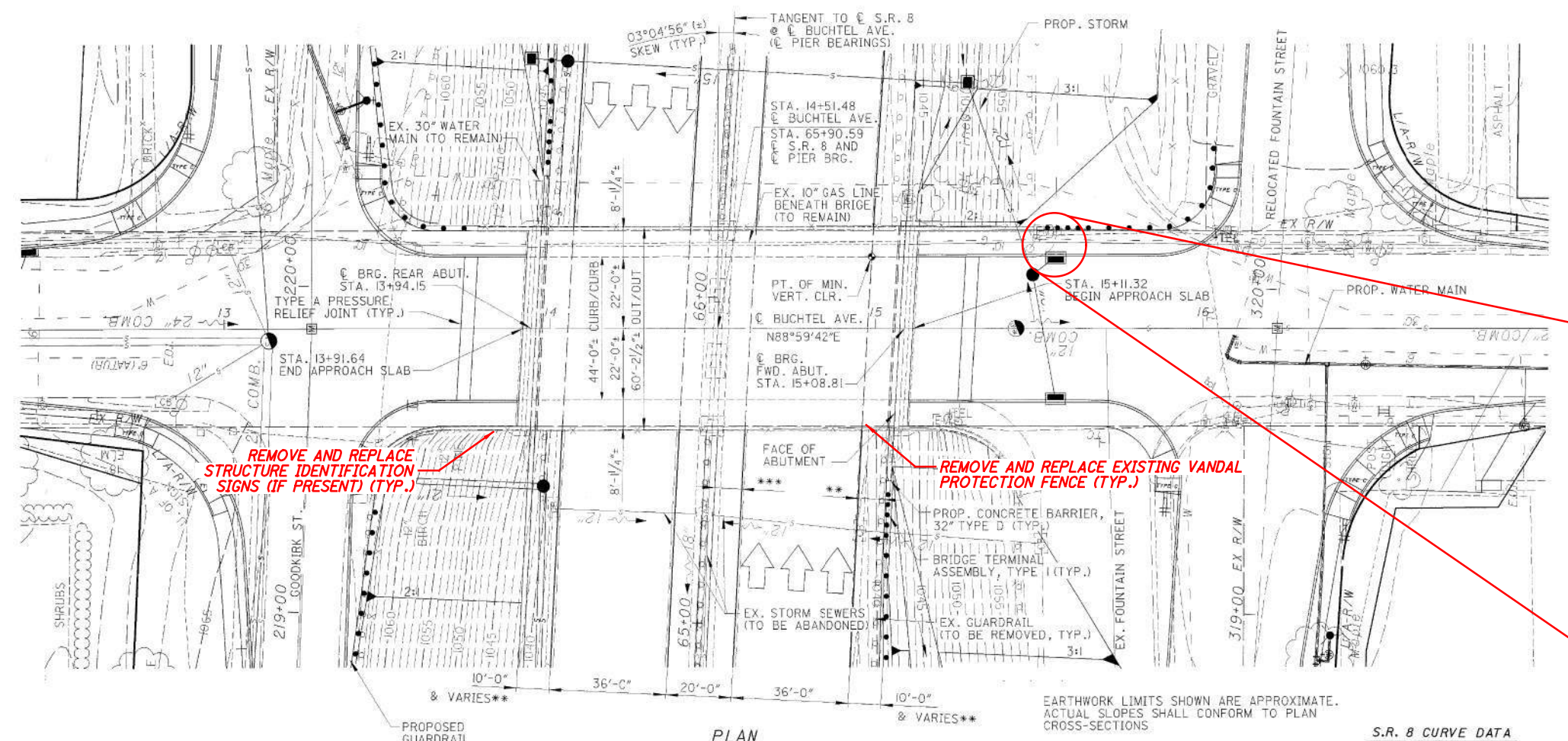
* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM ORIGINAL PLANS.

NOTE:

1. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

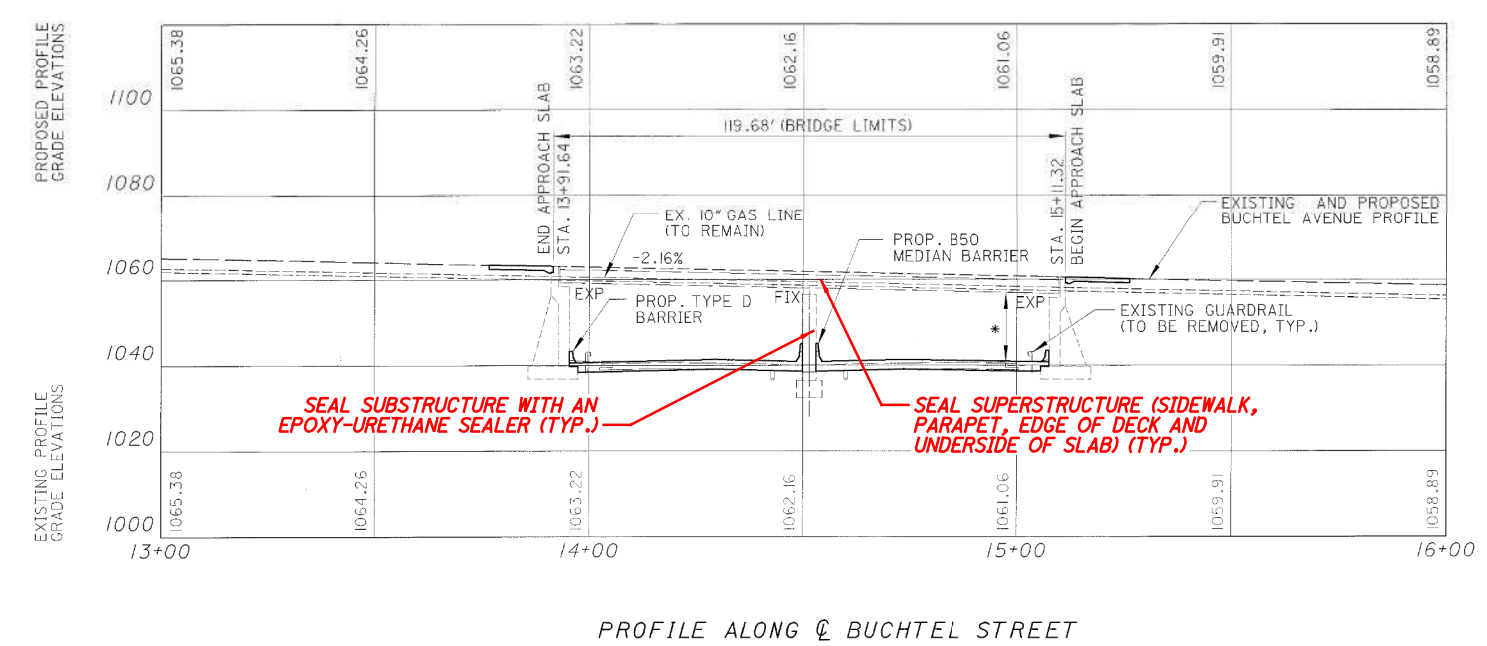
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ISSUE RECORD NO.	DATE	DESCRIPTION



S.R. 8 CURVE DATA

P.I. STA.	= 67+45.23
Δ	= 7° 46' 07" (RT)
Dc	= 0° 30' 13"
R	= 11,375.75'
T	= 772.39'
L	= 1,542.41'
E	= 26.19'



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET **3/65** THRU **7/65**.
 - FOR TRANSVERSE SECTION, SEE SHEET **9/65**.

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 57'-4"±, 57'-4"±, CENTER TO CENTER OF BEARINGS

ROADWAY: 44'-0" FACE TO FACE OF CURBS
 62'-6 1/2" OUT TO OUT OF DECK

LOADING: HS 20-44 (CASE II) AND THE ALT. MILITARY LOADING

WEARING SURFACE: 1" MONOLITHIC CONCRETE

SKIEW: 3°04'56"± LEFT FORWARD

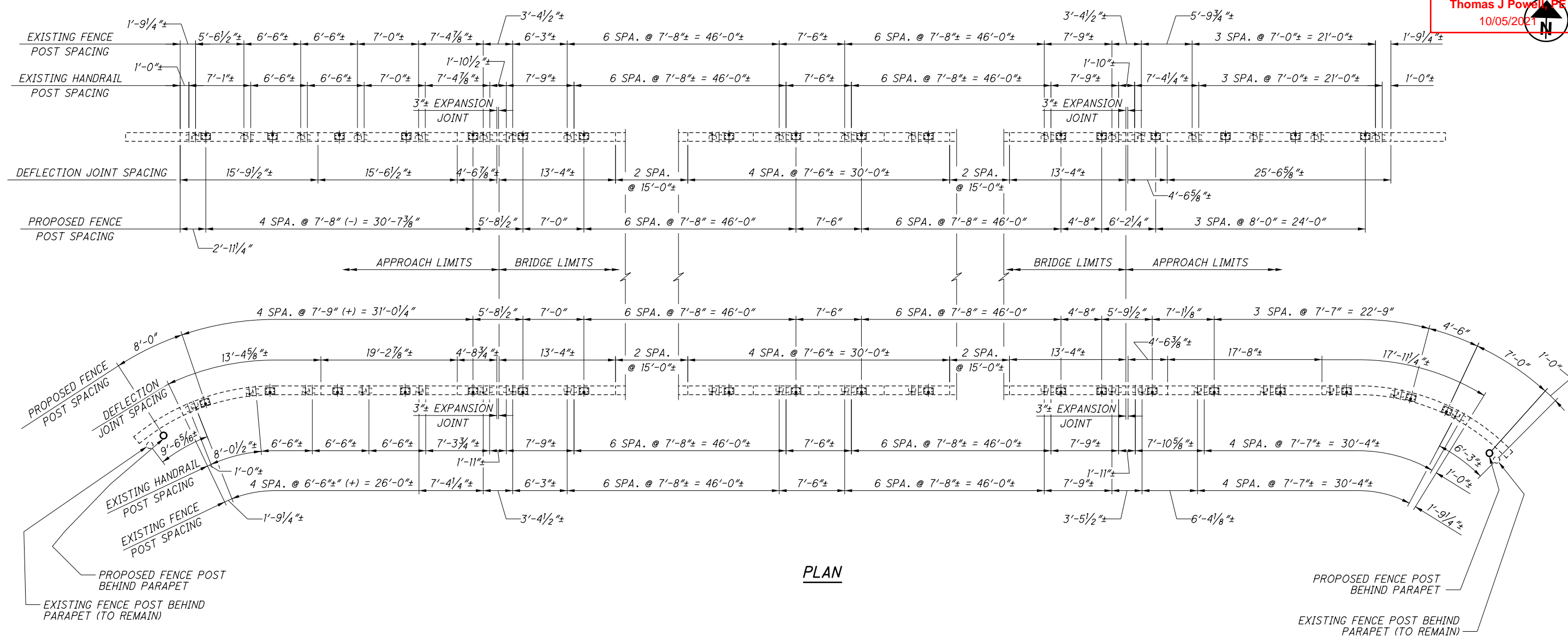
APPROACH SLABS: 15'-0"± LONG (AS-1-81)

ALIGNMENT: TANGENT

COORDINATES: LATITUDE 41°04'36.0"± N
 LONGITUDE 81°30'16.2"± W

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ISSUE RECORD NO.	DATE	DESCRIPTION



PLAN

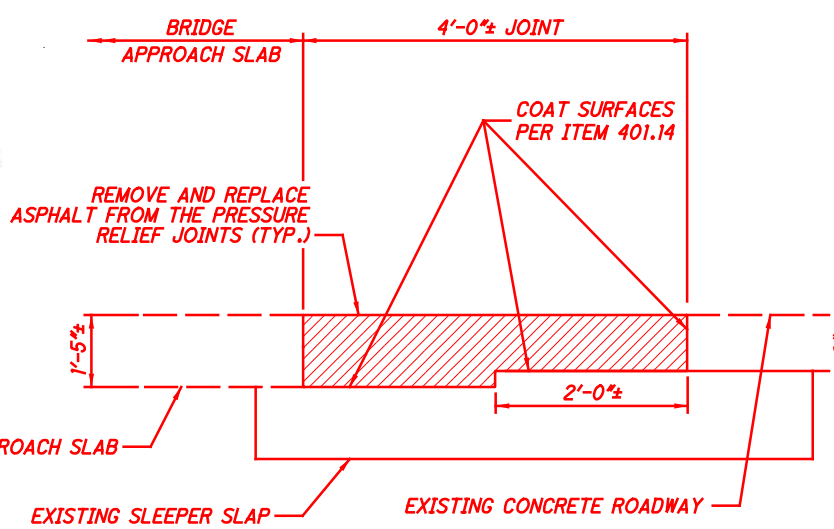
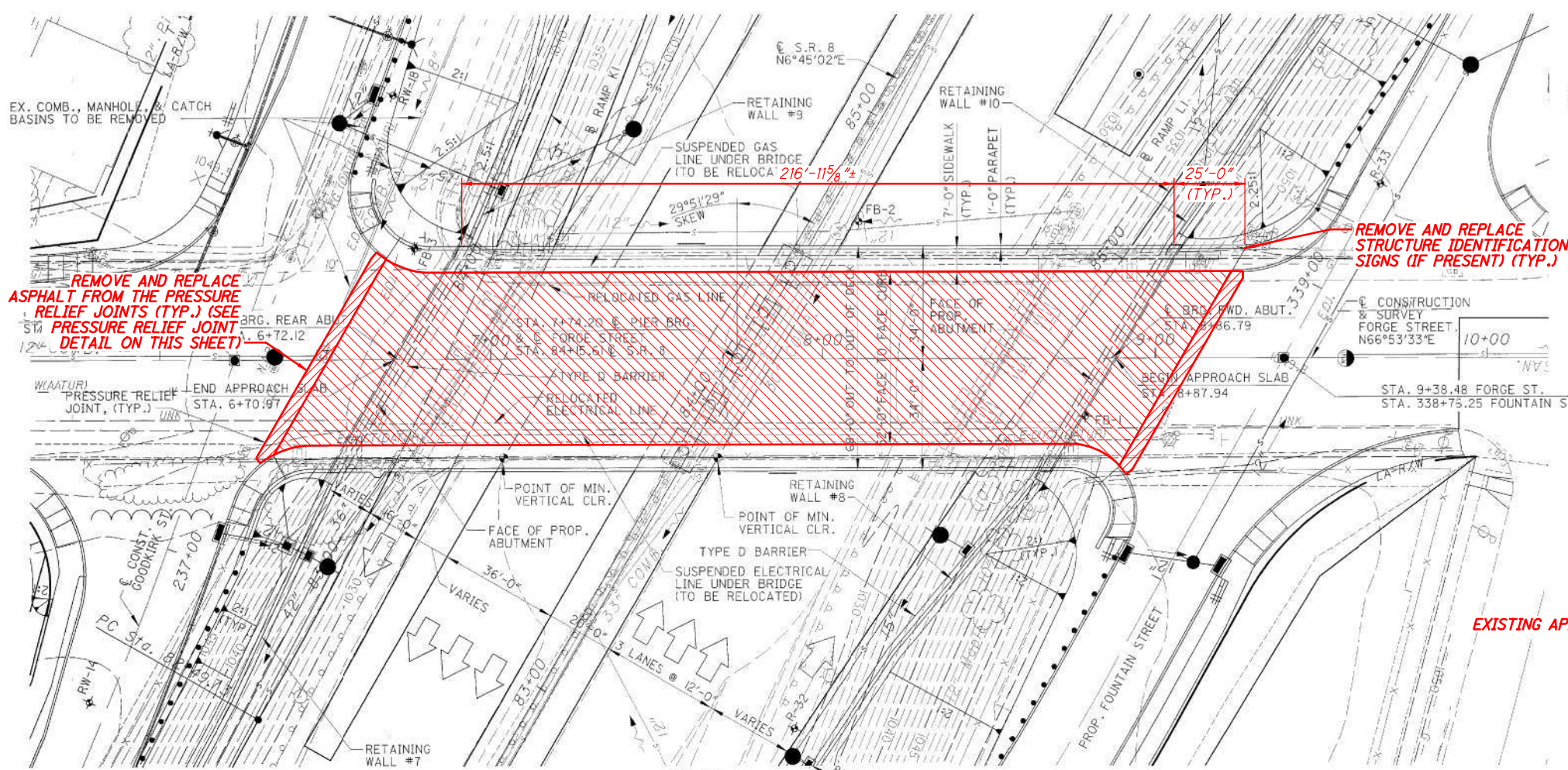
LEGEND:

* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM EXISTING PLANS.

NOTES:

- FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-90.
- FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

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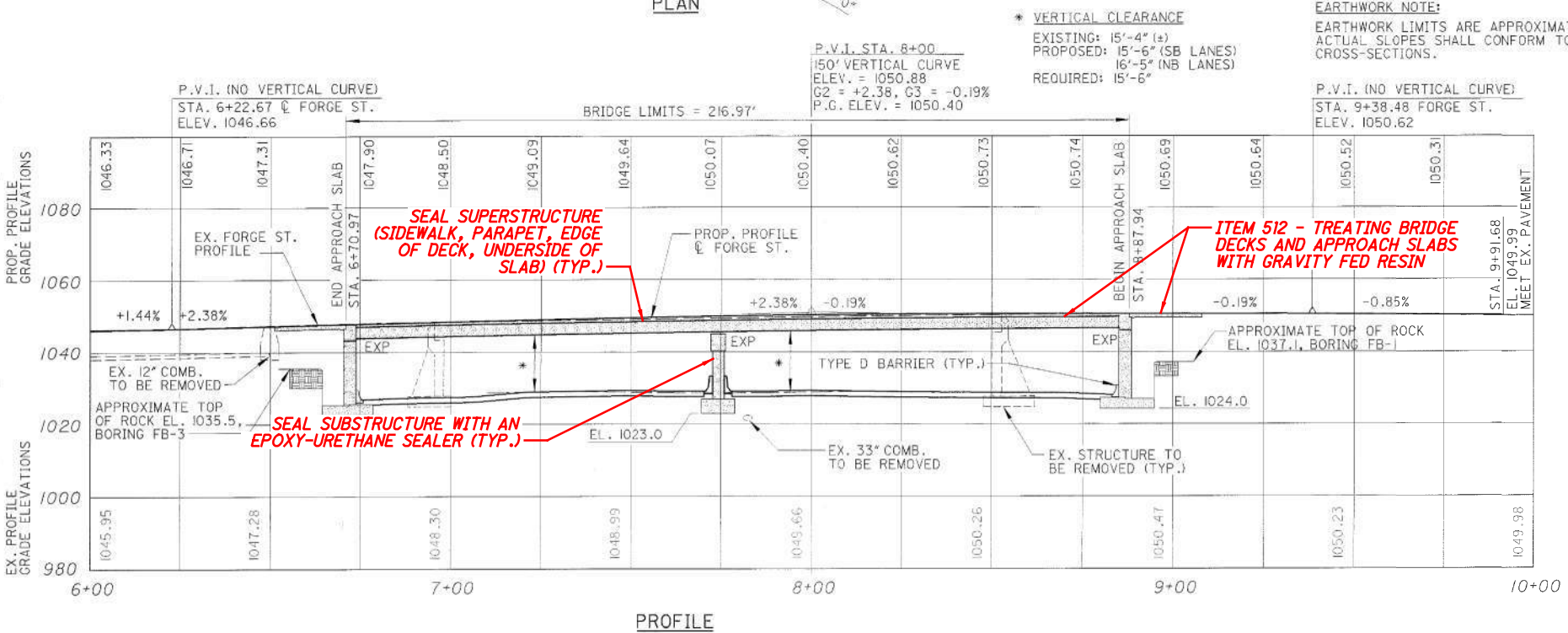
PRESSURE RELIEF JOINT DETAIL

NOTES:

- FOR GENERAL NOTES, SEE SHEET [3/65] THRU [7/65].
- FOR TRANSVERSE SECTION, SEE SHEET [9/65].

LEGEND:

- [Hatched Box] - LIMITS OF GRAVITY FED RESIN
- [Hatched Box] - REMOVE AND REPLACE ASPHALT FROM PRESSURE RELIEF JOINT



PROFILE

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS STEEL BEAM BRIDGE WITH COMPOSITE CONCRETE DECK AND SEMI-INTEGRAL ABUTMENTS

SPANS: 102'-1"±, 112'-7"± C/C BEARINGS

ROADWAY: 52'-0" FACE TO FACE CURBS WITH 7'-0" SIDEWALKS 68'-0" OUT TO OUT OF DECK

LOADING: HS25 (CASE II) AND THE ALTERNATE MILITARY LOADING

WEARING SURFACE: MONOLITHIC CONCRETE

SKEW: 29°51'29"± LEFT FORWARD

APPROACH SLABS: 20'-0"± LONG

ALIGNMENT: TANGENT

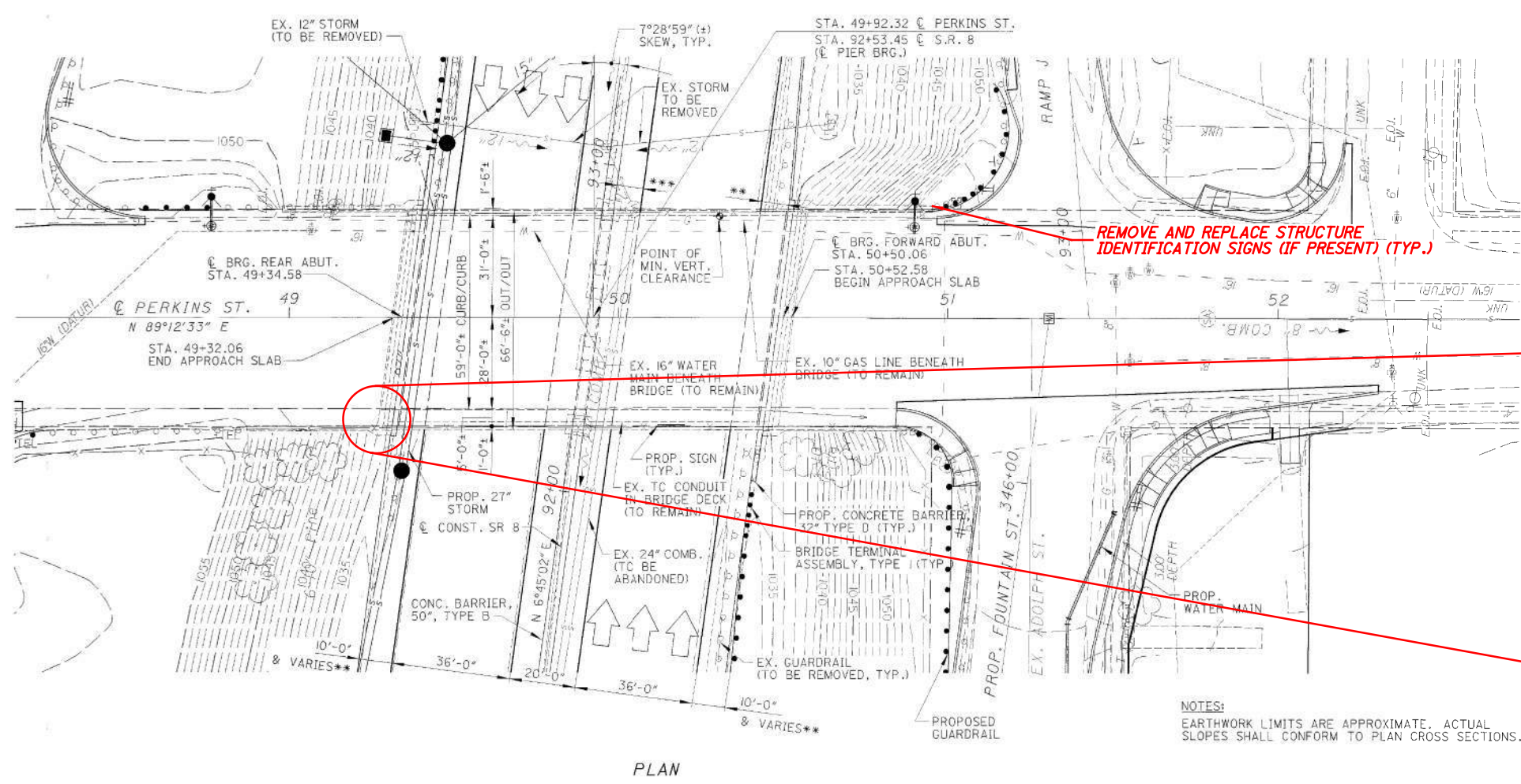
COORDINATES: LATITUDE 41°04'53.7"± N
 LONGITUDE 81°30'12.6"± W

2021-09-22_BU15 - REC PLANS

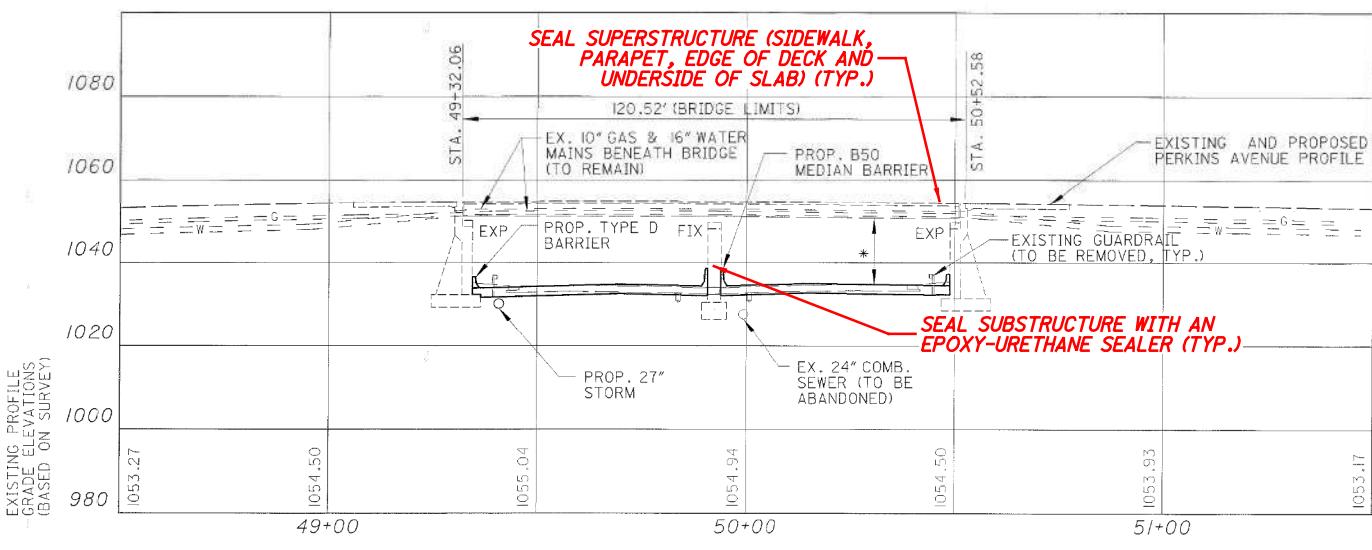
SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

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ISSUE RECORD NO.	DATE	DESCRIPTION



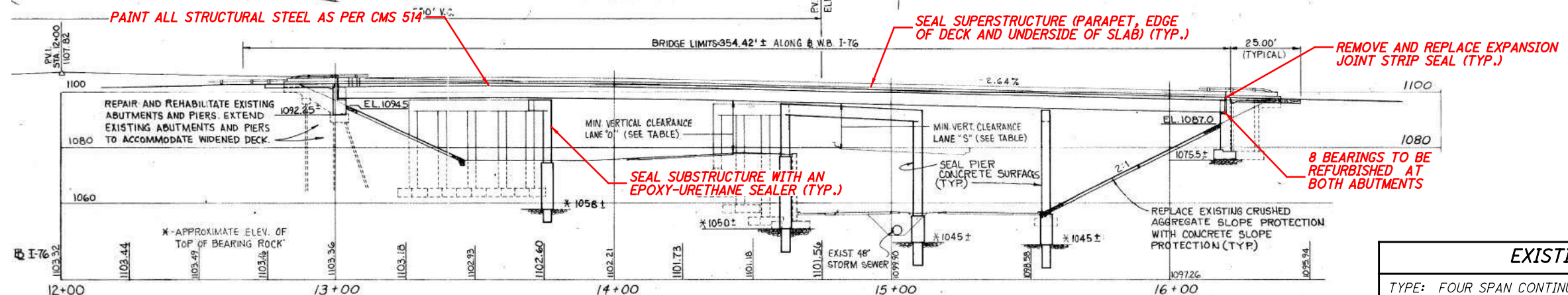
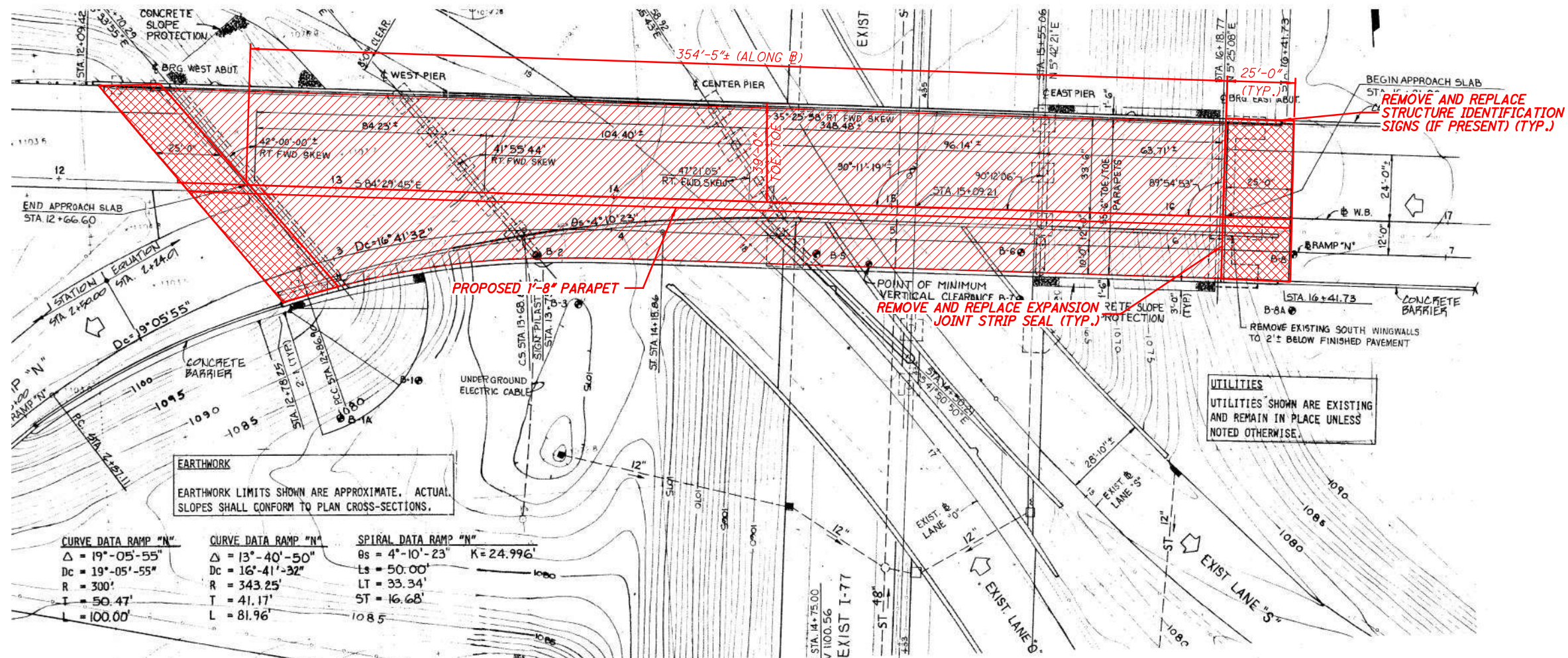
REMOVE AND REPLACE PORTIONS OF SIDEWALK ON APPROACHES AS DESIGNATED BY THE ENGINEER



- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 3/65 THRU 7/65.
 - FOR TRANSVERSE SECTION, SEE SHEET 9/65.

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

EXISTING STRUCTURE	
TYPE: TWO SPAN CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE	
SPANS: 57'-0" ± F/F OF CURB TO TOE OF PARAPET WITH A 5'-0" ± SIDEWALK 66'-6" ± O/O OF DECK.	
LOADING: HS20-44 (CASE II) AND ALTERNATE MILITARY LOADING	
WEARING SURFACE: 1 1/4" ± LATEX MODIFIED CONCRETE	
SKEW: 7°28'59" ± LEFT FORWARD	
APPROACH SLABS: 25'-0" ± LONG (AS-1-54)	
ALIGNMENT: TANGENT	
COORDINATES: LATITUDE 41°05'02" ± N LONGITUDE 81°30'12" ± W	



ISSUE RECORD	NO.	DATE	DESCRIPTION

EARTHWORK
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS-SECTIONS.

CURVE DATA RAMP "N"	CURVE DATA RAMP "N"	SPIRAL DATA RAMP "N"
$\Delta = 19^{\circ}-05'-55"$	$\Delta = 13^{\circ}-40'-50"$	$\theta_s = 4^{\circ}-10'-23"$
$D_c = 19^{\circ}-05'-55"$	$D_c = 16^{\circ}-41'-32"$	$L_s = 50.00'$
$R = 300'$	$R = 343.25'$	$L_T = 33.34'$
$T = 50.47'$	$T = 41.17'$	$ST = 16.68'$
$L = 100.00'$	$L = 81.96'$	

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

- LEGEND:**
- [Hatched Box] - LIMITS OF MILLING & MICRO-SILICA CONCRETE OVERLAY ON BRIDGE DECK
 - [Cross-hatched Box] - LIMITS OF MILLING & MICRO-SILICA CONCRETE OVERLAY ON APPROACH SLAB

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET [3/65] THRU [7/65].
 - FOR TRANSVERSE SECTION, SEE SHEET [2/5].
 - FOR EXPANSION JOINT DETAILS, SEE SHEET [3/5].
 - FOR PARAPET DETAILS, SEE SHEET [4/5].

EXISTING STRUCTURE

TYPE: FOUR SPAN CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 84'-2 $\frac{3}{4}$ "±, 104'-4 $\frac{3}{16}$ "±, 96'-1 $\frac{1}{16}$ "±, 63'-8 $\frac{1}{2}$ "± C/C BEARINGS

ROADWAY: VARIES

LOADING: HS20-44 CASE 1 AND THE ALTERNATE MILITARY LOADING

WEARING SURFACE: 1"± MONOLITHIC CONCRETE

SKEW: VARIES

APPROACH SLABS: 25'-0"± LONG (AS-I-81)

ALIGNMENT: VARIES

SUPERELEVATION: VARIES

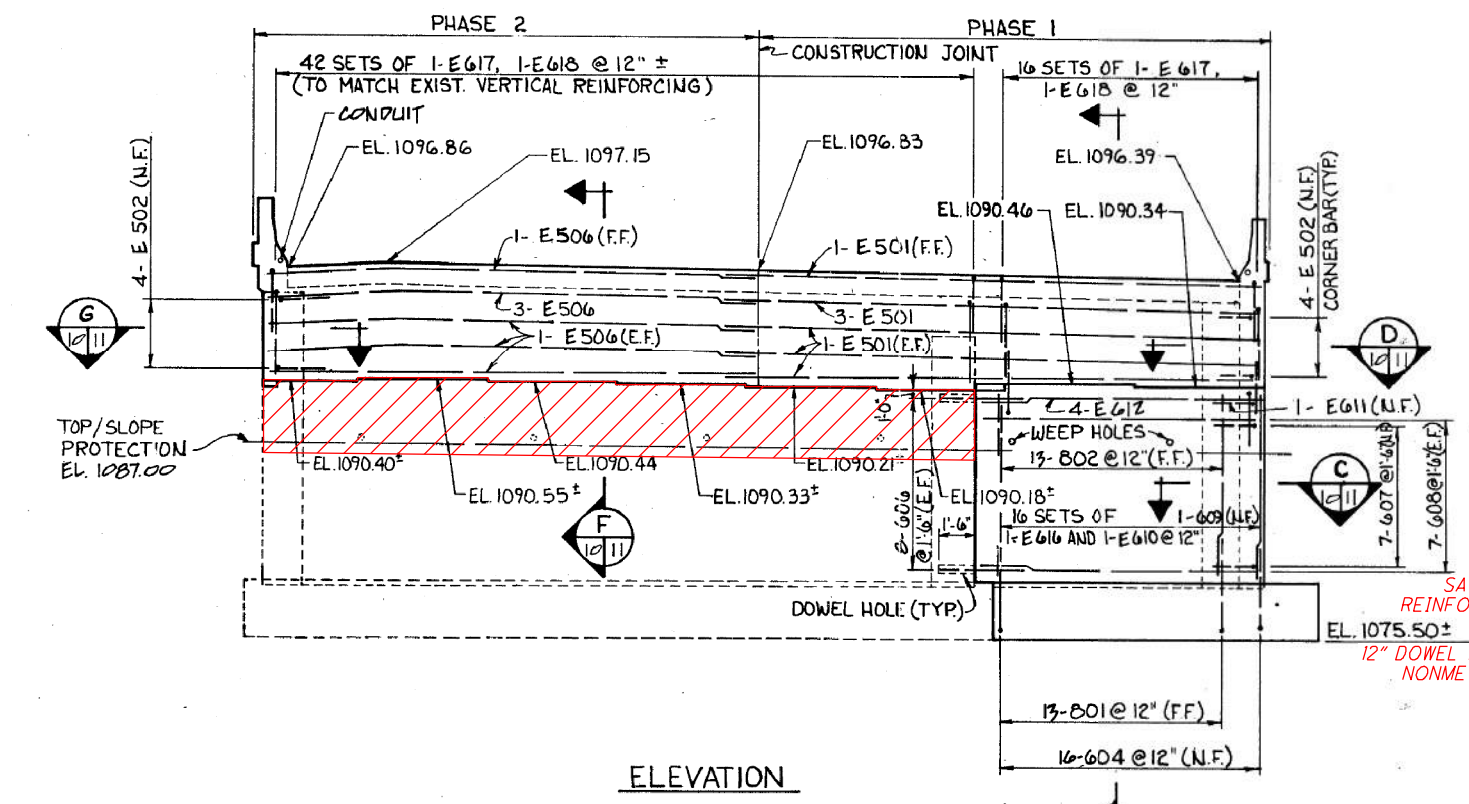
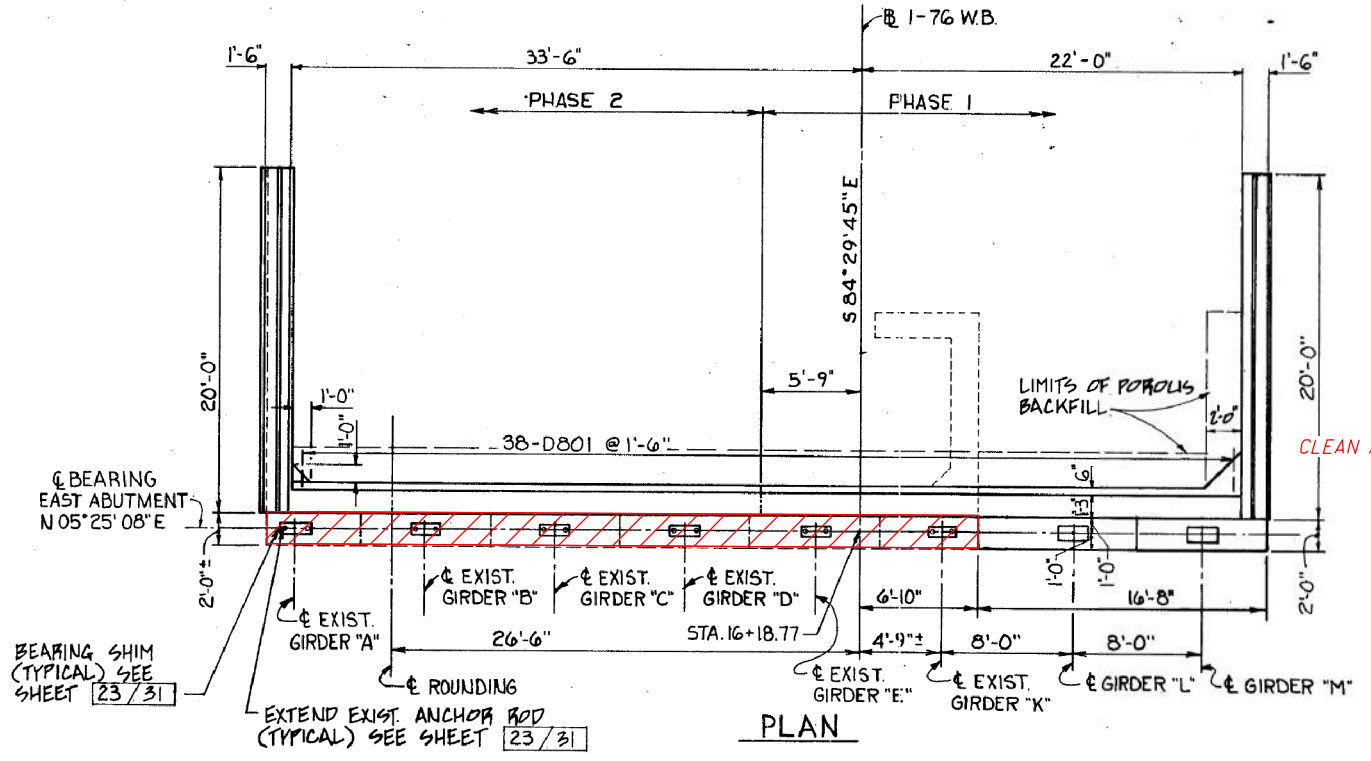
COORDINATES: LATITUDE 41°03'43.2"± N
 LONGITUDE 81°30'16.0"± W

2021-09-22_BU 15 - RFC PLANS

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Design: 102329 Structures\BU-15\Sheets\076_1151L_MD003.dgn Sheet 3/3/2023 11:25:35 AM p003738G
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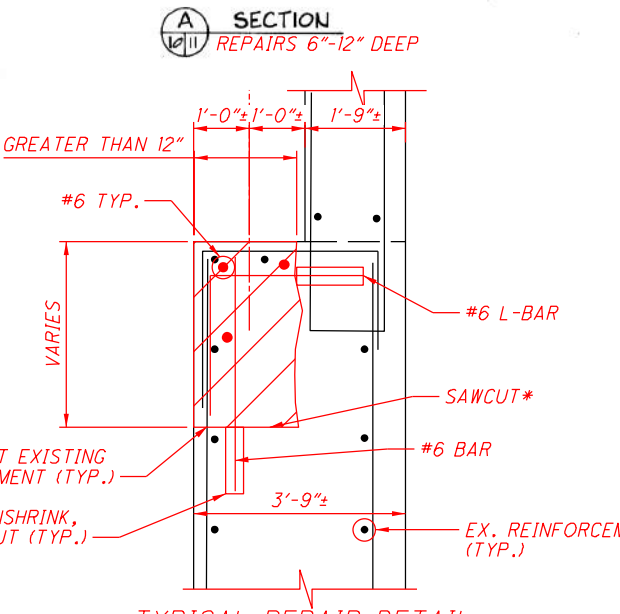
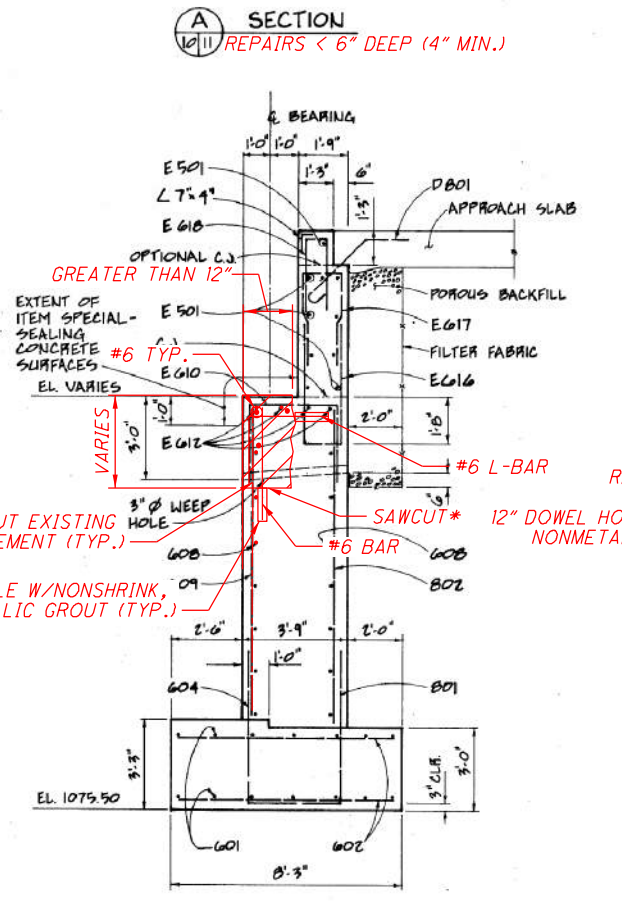
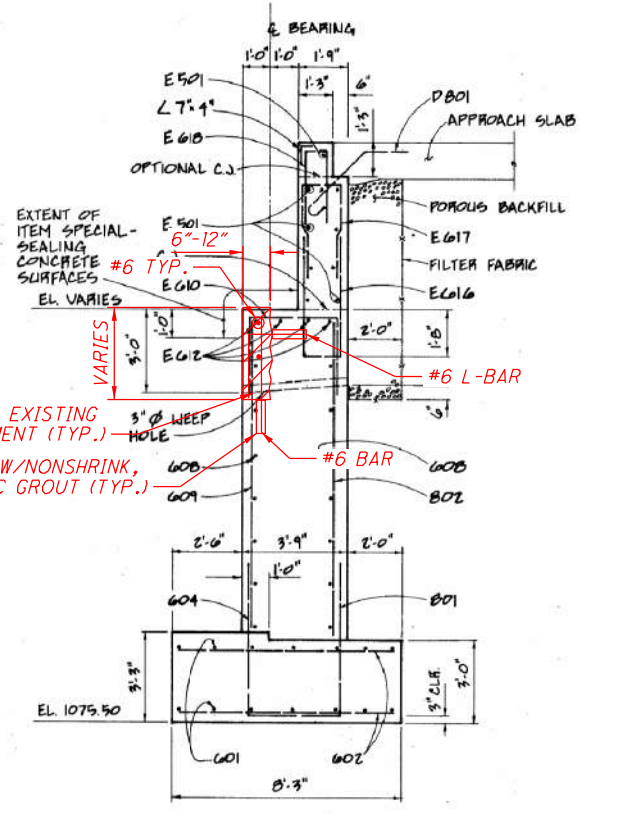
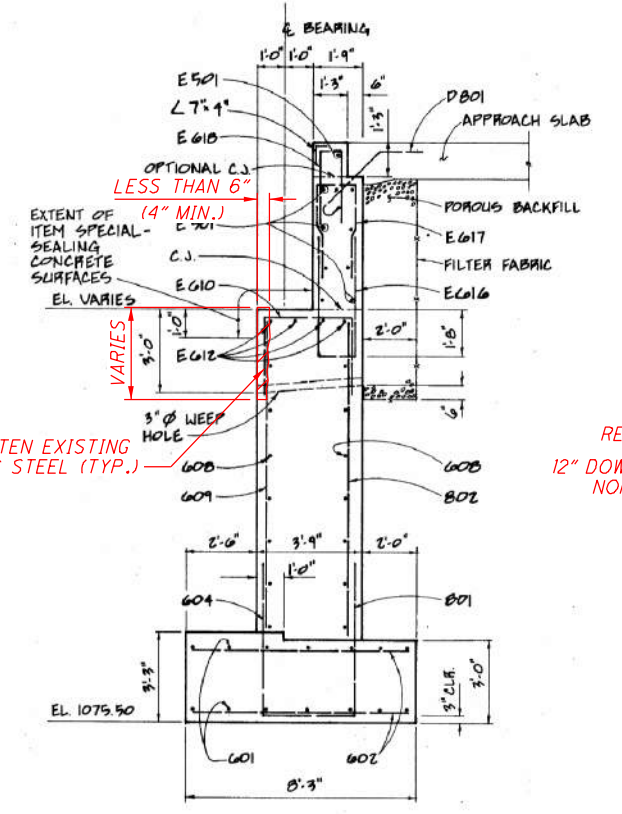
ISSUE RECORD:	NO.	DATE	DESCRIPTION
	01	3-6-2023	ABUTMENT REPAIR DETAIL SHEET ADDED



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT AND BEAM SEAT REPAIRS.

- LIMITS OF CONCRETE REPAIR

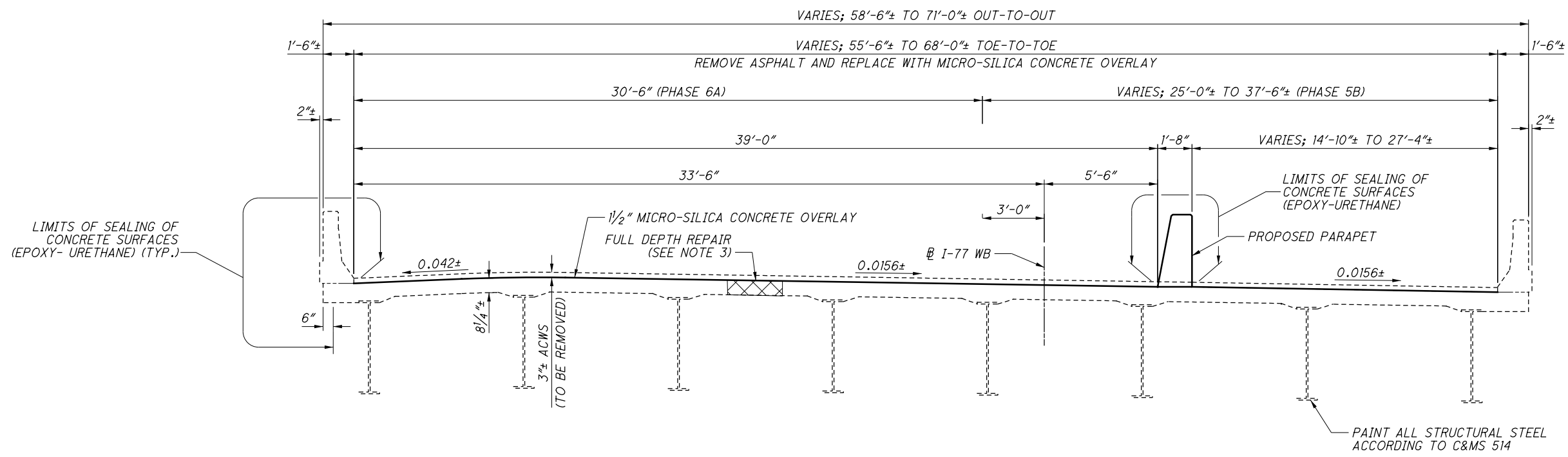
LEGEND:
 * - CONTRACTOR HAS THE OPTION TO SCORE AND CHIP



- NOTES:**
- REMOVE AND REPLACE PORTIONS OF THE FORWARD ABUTMENT BEAM SEATS AS SHOWN ON THE PLANS.
 - REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. REPLACE ALL EXISTING STEEL REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE, COATING, AND MATERIAL.
 - IF THE EPOXY COATING OF ANY REINFORCING STEEL IS DAMAGED DURING THE CONCRETE REMOVAL PROCESS AND IS BEING REUSED IN THE NEW WORK, IT SHALL BE REPAIRED AS DIRECTED BY C&MS 509.09.
 - CONTRACTOR SHALL SUBMIT A JACKING PLAN IN ACCORDANCE WITH C&MS 501. NO MORE THAN 2 GIRDERS SHALL BE JACKED AT A TIME.

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ISSUE RECORD NO.	DATE	DESCRIPTION



TRANSVERSE SECTION

LEGEND:

- LIMITS OF FULL DEPTH REPAIR

NOTES:

- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- FOR PROPOSED PARAPET DETAILS, SEE SHEET 4/5.
- PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
- REMOVE EXISTING ASPHALT CONCRETE WEARING SURFACE (ACWS) & PROVIDE NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE ORIGINAL DECK ELEVATION.

2021-09-22_BU 15 - RFC PLANS

TRANSVERSE SECTION
 BRIDGE NO. SUM-76-1151L
 I-76 WB OVER SR-8

DESIGNED	KDC	CHECKED	JAT
DRAWN	KDC	REVISED	
REVIEWED	SAN	STRUCTURE FILE NUMBER	7706006
DATE	6/18/21		

DESIGN AGENCY: **PRIME**
 8415 Atlas Road, Suite 300
 Columbus, Ohio 43231

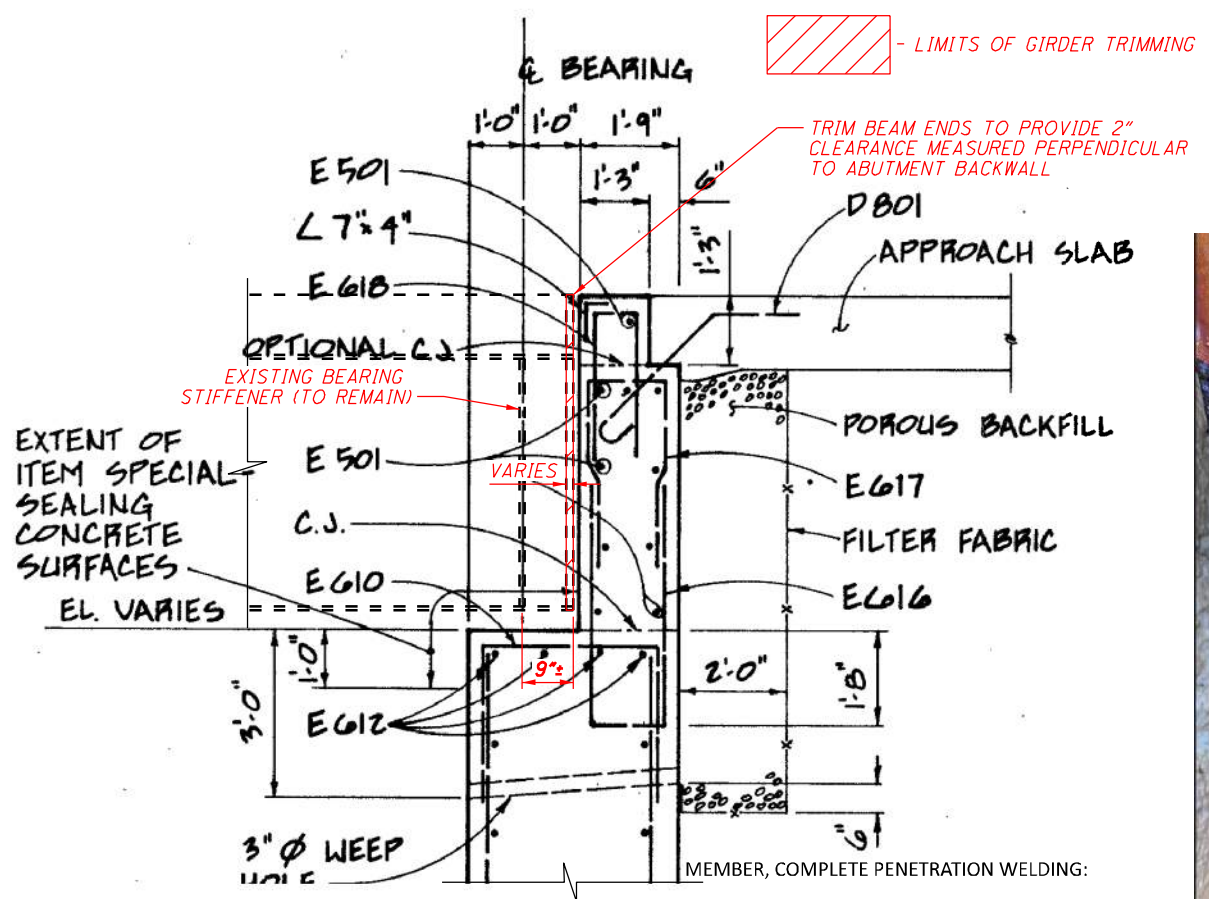
SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

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23 / 65

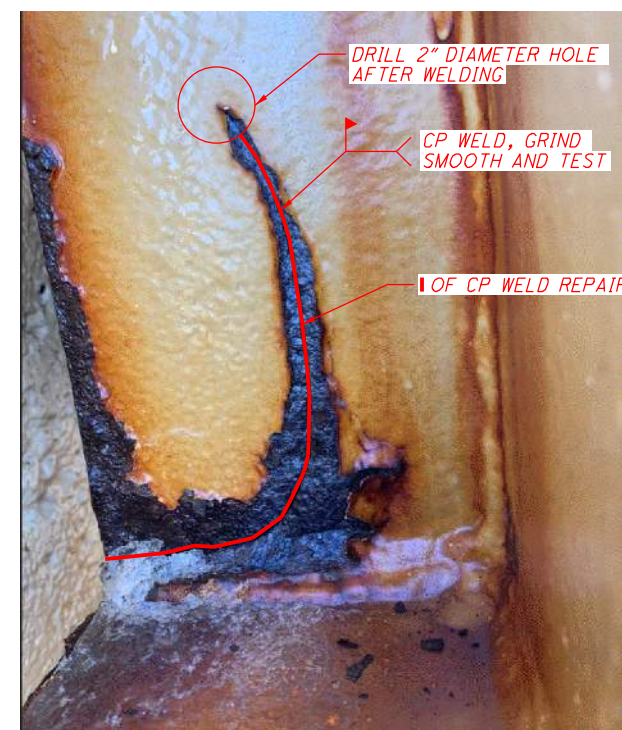
PARSONS
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ISSUE RECORD NO.	DATE	DESCRIPTION
01	3-6-2023	GIRDER REPAIR DETAIL SHEET ADDED

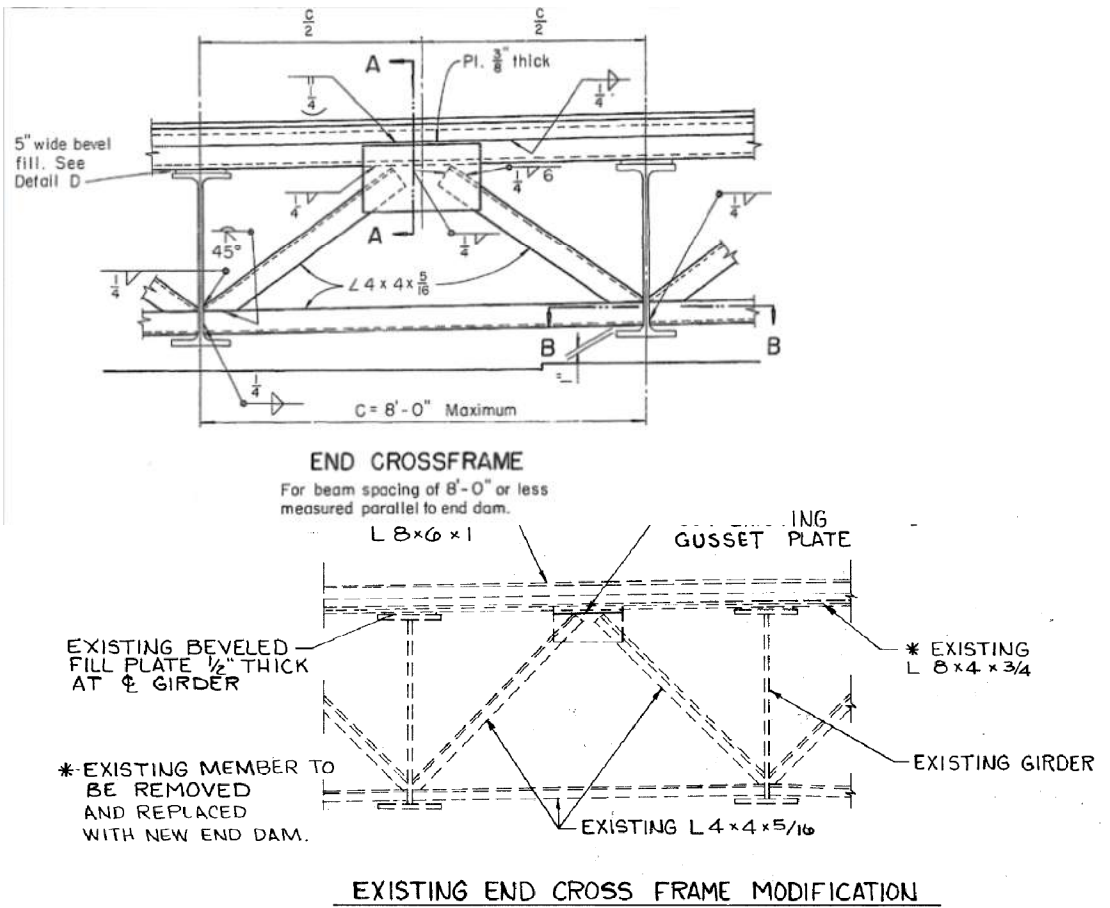


EAST ABUTMENT SECTION

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT AND BEAM SEAT REPAIRS.



END GIRDER REPAIR
 (SEE GIRDER REPAIR NOTES)



NOTE:
 1. STRUCTURAL STEEL TO BE TRIMMED MAY BE FLAME CUT, PROVIDED A SMOOTH SURFACE FREE FROM CRACKS AND NOTCHES IS SECURED AND PROVIDED THAT AN ACCURATE PROFILE IS SECURED BY THE USE OF A MECHANICAL GUIDE. FLAME CUT SURFACES SHALL MEET THE REQUIREMENTS OF THE AASHTO BRIDGE WELDING GUIDE, AS AMENDED BY SUPPLEMENT 1011. BURRS SHALL BE REMOVED.

- GIRDER REPAIR PROCEDURE:
1. PREP EXISTING MATERIALS FOR COMPLETE PENETRATION WELDS.
 2. PERFORM COMPLETE PENETRATION WELDS ACCORDING TO C&S 513.21.
 3. DRILL A 2" DIAMETER HOLE AT THE END OF THE WELD.
 4. GRIND WELDS SMOOTH AND PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 mil.
 5. PERFORM NDT TESTS ACCORDING TO C&S 513.25A.

- GIRDER REPAIR NOTES:
- ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MAIN MEMBER, COMPLETE PENETRATION WELDING:
- AFTER DAMAGED AREAS HAVE BEEN INSPECTED ACCORDING TO ITEM 849 DAMAGE ASSESSMENT. PREPARE THE DAMAGED MATERIAL FOR WELDING. PROVIDE RUNOFF TABS FOR ALL COMPLETE PENETRATION WELDS. PERFORMING COMPLETE PENETRATION WELDS ACCORDING TO C&S 513 USING APPROVED ELECTRODES, PROCEDURES AND WELDERS. REMOVE RUNOFF TABS AND GRIND THE COMPLETED EDGES SMOOTH. GRIND THE COMPLETED WELDS SMOOTH AND FLUSH WITH THE ADJACENT SURFACES TO PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL. DO NOT OVER GRIND AS TO REDUCE THE MATERIAL THICKNESS OR WIDTH OF THE NEW OR EXISTING MATERIALS. PREPARE ALL REENTRANT CORNERS WITH A ONE INCH RADIUS. REMOVE WELDING, START AND STOP DISCONTINUITIES. RADIOGRAPHIC TEST THE FINISHED WELDS ACCORDING TO C&S 513.25A AND SUBMIT COPIES OF THE REPORTS TO THE ENGINEER. THE ENGINEER MAY OBTAIN TECHNICAL ASSISTANCE FROM THE OFFICE OF MATERIALS MANAGEMENT.

- ITEM 513 - STRUCTURAL STEEL MISC., REPAIR OF DAMAGED MEMBERS, DRILLING:
- DRILL 2 INCH DIAMETER HOLES AT BOTH ENDS OF EACH IDENTIFIED CRACK AS DIRECTED BY THE ENGINEER. GRIND THE HOLES SMOOTH ACCORDING TO C&S 513.19.
- FOR PAINTING NOTES, SEE GENERAL NOTES SHEET 5/65.

Released for Construction
 Thomas J Powell, PE
 03/08/2023

2023-03-06_BU 15-RFC PLANS_REV-01

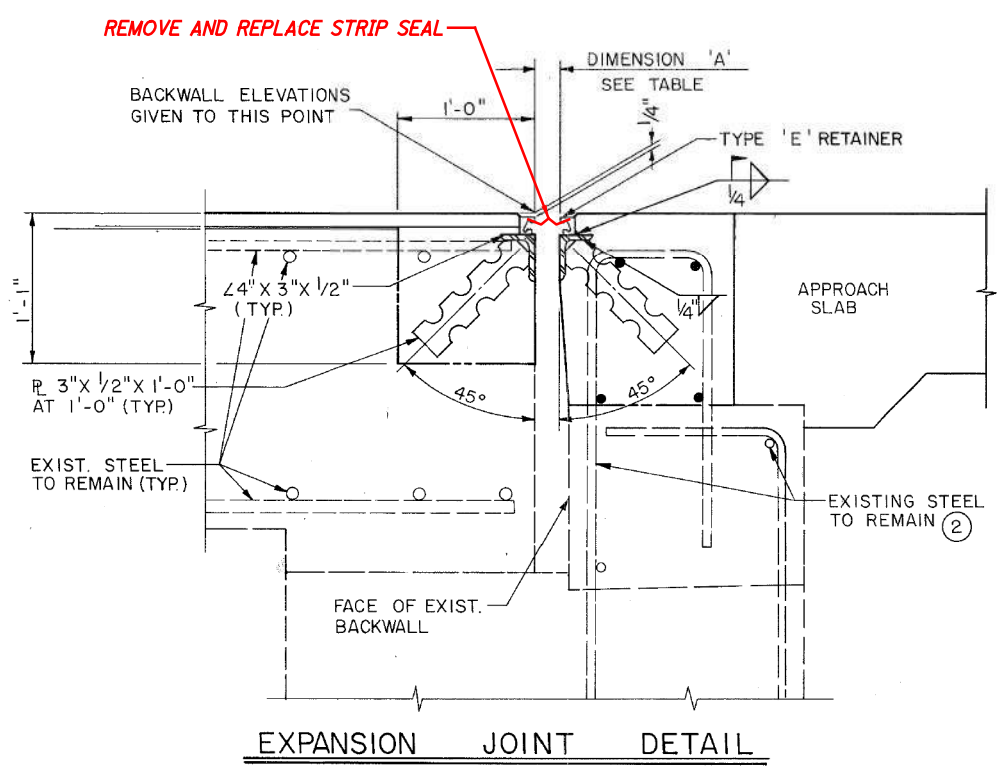
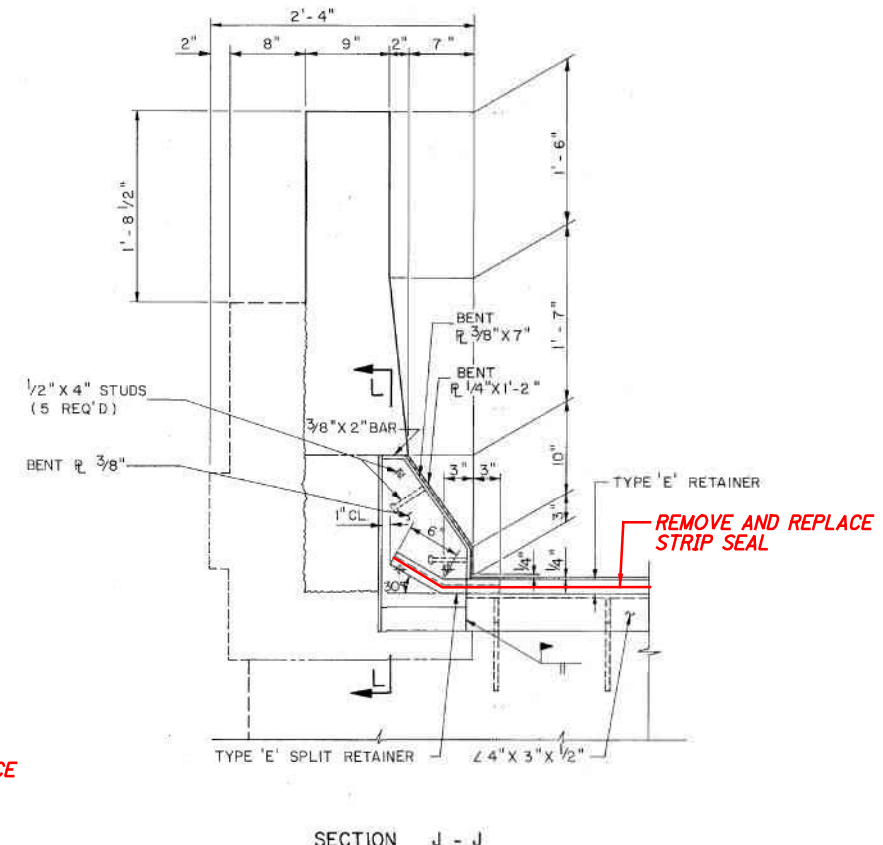
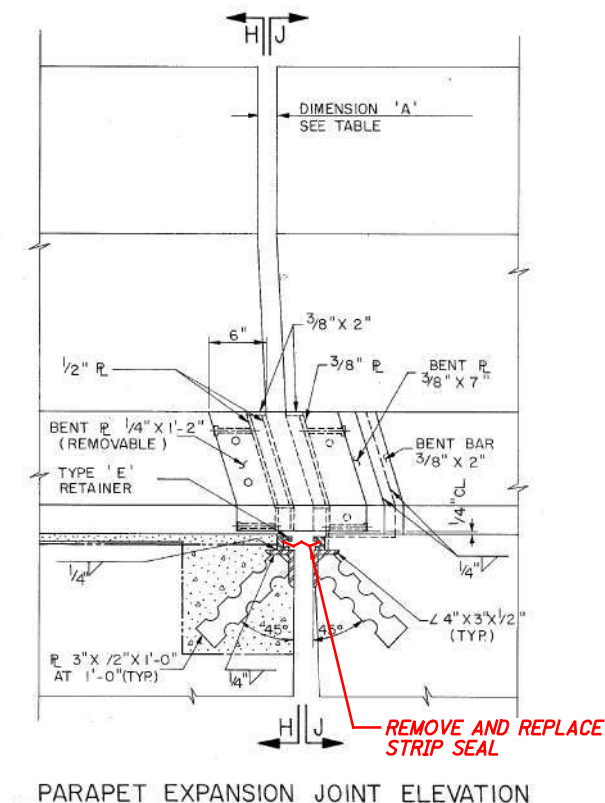
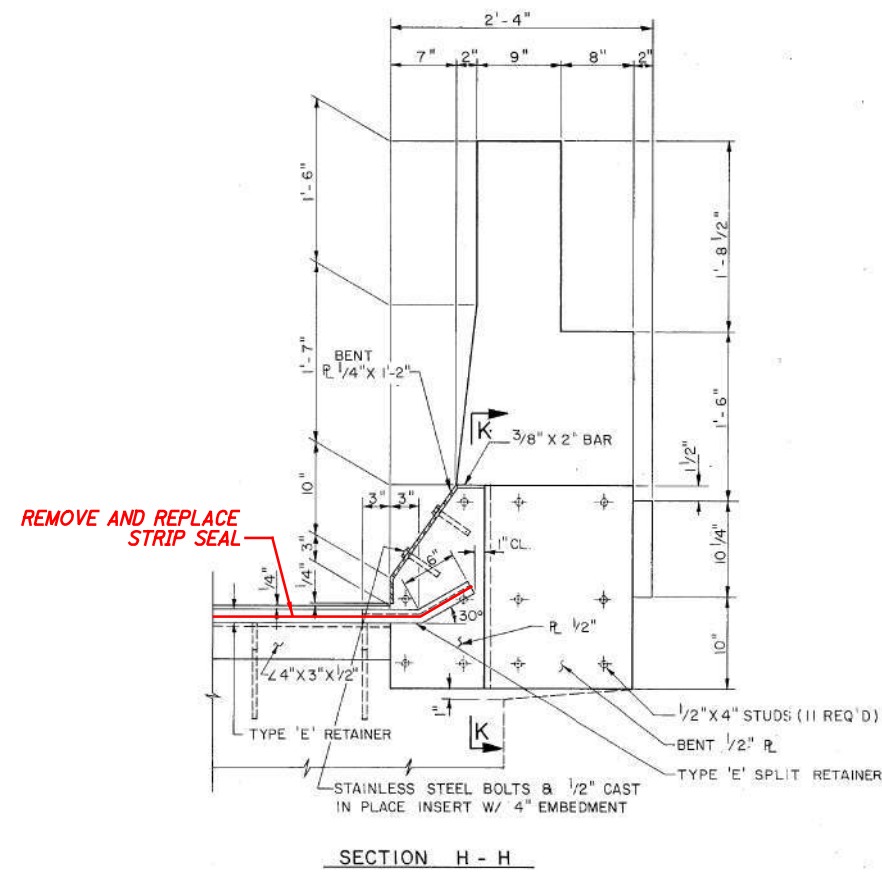
PARSONS
 100 East Campus View Boulevard, Suite 250
 Columbus, OH 43235

DESIGNED	KDC	CHECKED	JRE
DRAWN	KDC	REVISED	
REVIEWED	TES	DATE	2/16/2023
STRUCTURE FILE NUMBER	7706006		

GIRDER REPAIR DETAILS
 BRIDGE NO. SUM-76-115-1L
 I-76 WB OVER SR-8

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

2A/5
 23A



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

DIMENSION 'A'							
TEMPERATURE °F		40	50	60	70	80	90
		2 1/16"	2 1/32"	2"	1 3/32"	1 5/16"	1 7/8"

NOTES:

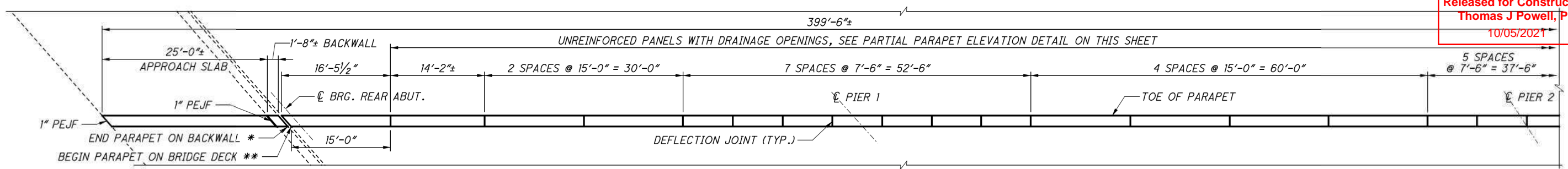
1. REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.

ISSUE RECORD NO.	DATE	DESCRIPTION

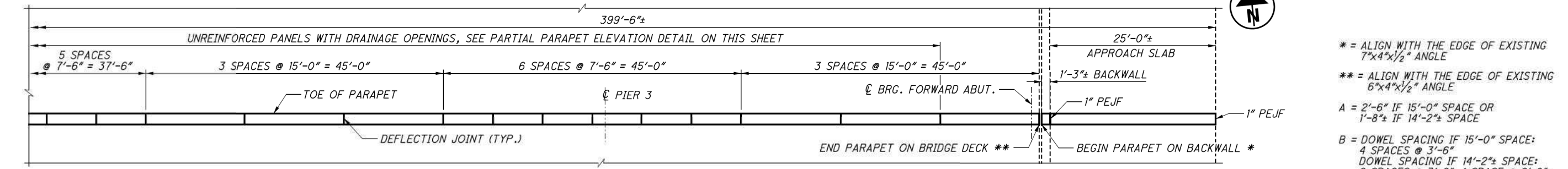
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2021-09-22_BU 15 - RFC PLANS

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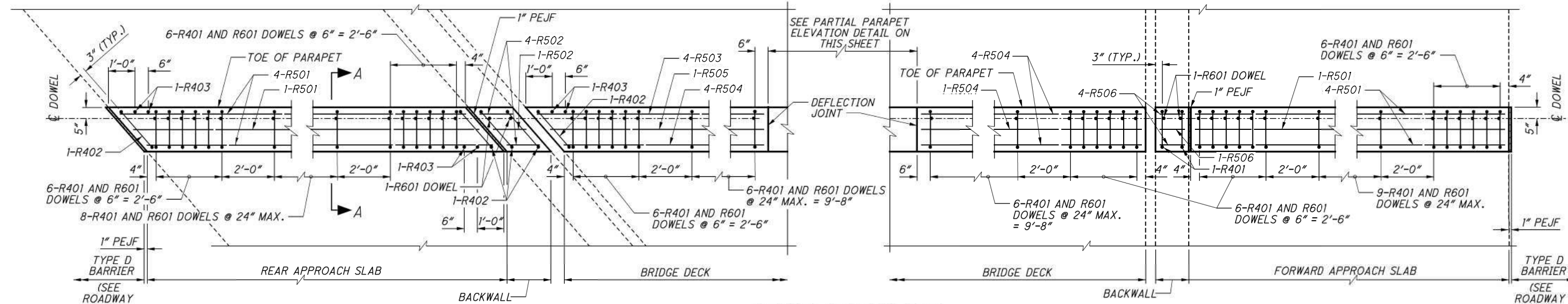


PARAPET PLAN



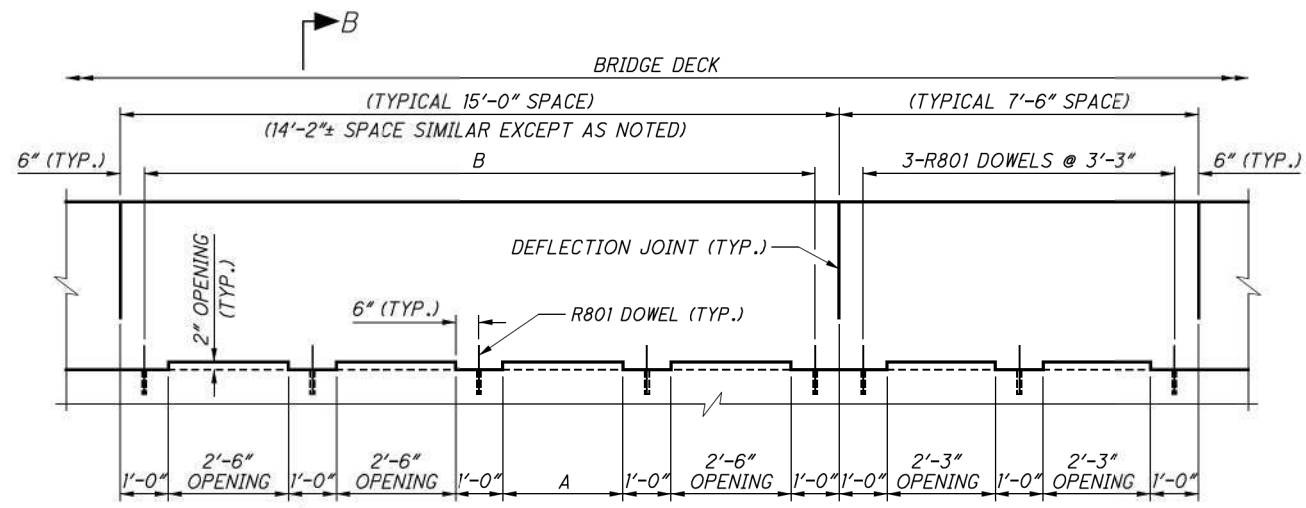
PARAPET PLAN (CONTINUED)

- LEGEND:**
- * = ALIGN WITH THE EDGE OF EXISTING 7"x4"x1/2" ANGLE
 - ** = ALIGN WITH THE EDGE OF EXISTING 6"x4"x1/2" ANGLE
 - A = 2'-6" IF 15'-0" SPACE OR 1'-8" IF 14'-2" SPACE
 - B = DOWEL SPACING IF 15'-0" SPACE: 4 SPACES @ 3'-6" DOWEL SPACING IF 14'-2" SPACE: 2 SPACES @ 3'-6", 1 SPACE @ 2'-8" AND 1 SPACE @ 3'-6"

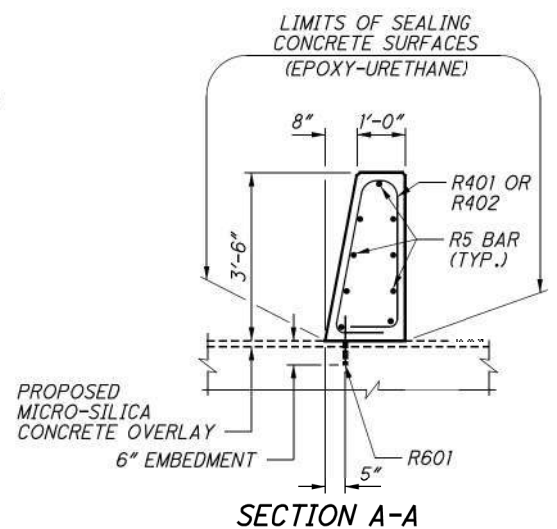


PARTIAL PARAPET PLAN

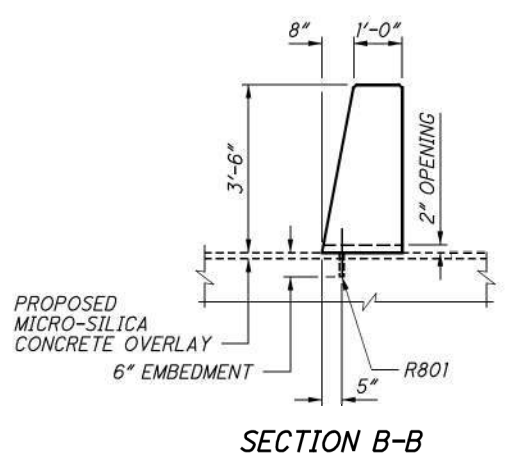
- NOTES:**
- FOR REINFORCING LIST, SEE SHEET 5/5.



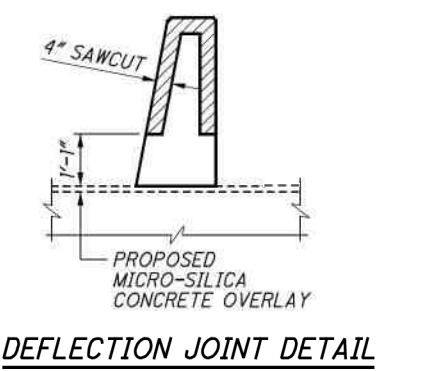
PARTIAL PARAPET ELEVATION
 (LOOKING AT OUTSIDE FACE OF PARAPET)



SECTION A-A



SECTION B-B



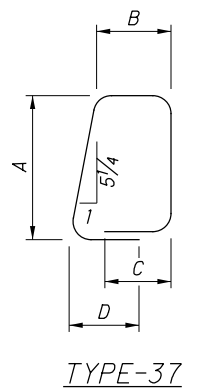
DEFLECTION JOINT DETAIL

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ISSUE RECORD NO.	DATE	DESCRIPTION

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
PARAPET											
R401	67	8'-2"	366	37	3'-2"	6"	1'-0"	1'-0"			
R402	5	9'-2"	31	37	3'-2"	10"	1'-4"	1'-4"			
R403	6	3'-0"	12	STR							
R501	18	24'-6"	460	STR							
R502	9	1'-2"	11	STR							
R503	4	15'-11"	66	STR							
R504	13	14'-6"	197	STR							
R505	1	15'-3"	16	STR							
R506	9	0'-9"	7	STR							
*R601	69	1'-0"	104	STR							
*R801	119	1'-0"	318	STR							
SUB-TOTAL			1588								

* - INDICATES DOWEL BAR



DESIGN AGENCY
PRIME
 8415 Atlas Road
 Columbus, Ohio 43231

DESIGNED
 KDC
 CHECKED
 JAT

DRAWN
 KDC
 REVISED

REVIEWED
 SAN
 STRUCTURE FILE NUMBER
 7706006

DATE
 6/18/21

REINFORCING STEEL LIST
 BRIDGE NO. SUM-76-115-IL
 I-76 WB OVER SR-8

2021-09-22_BU 15 - RFC PLANS

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

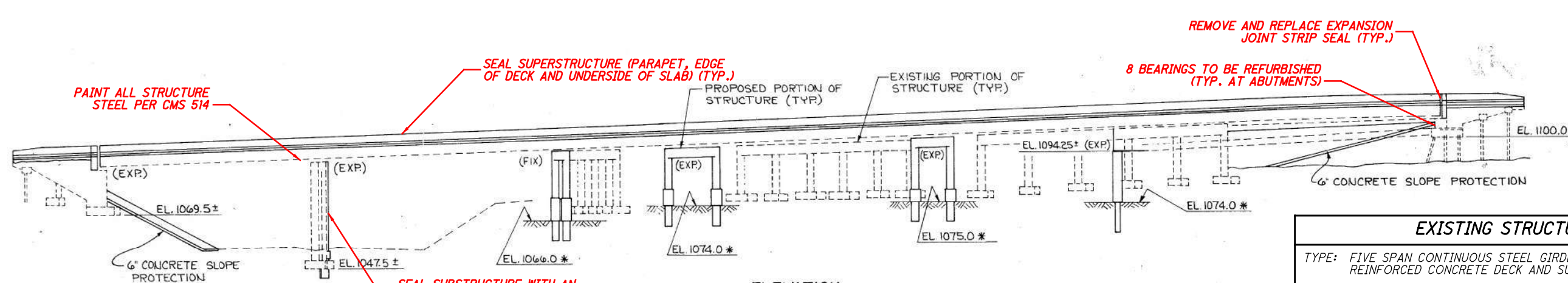
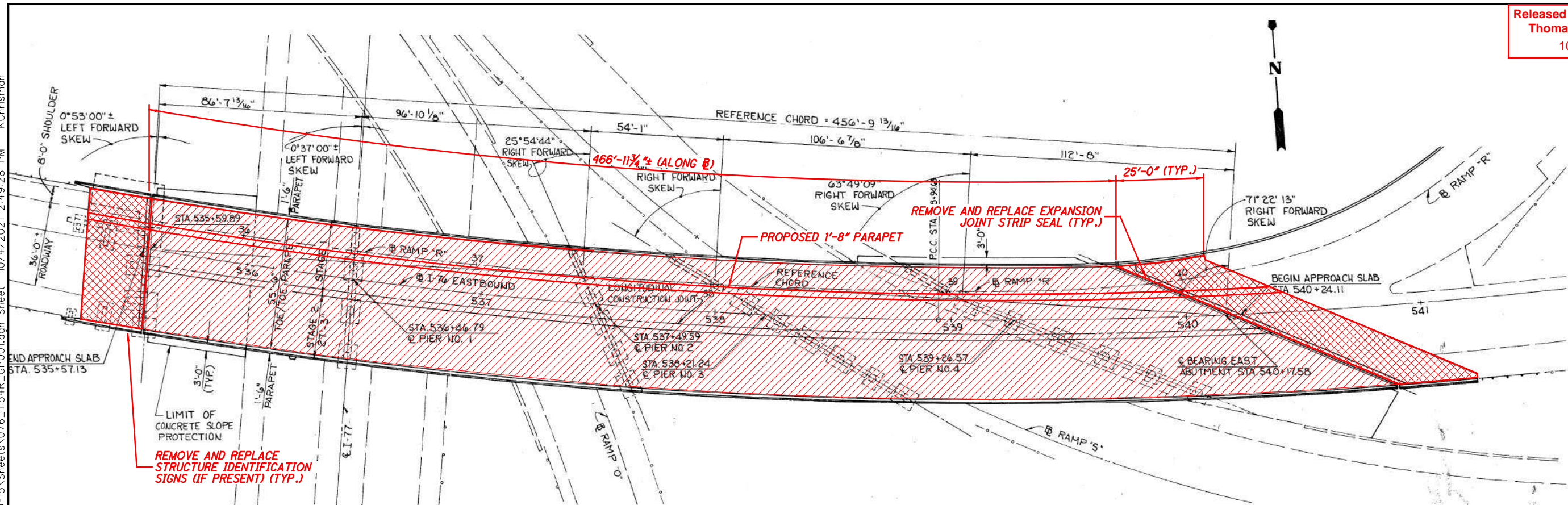
5/5

26
 65

- NOTES:**
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 - BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH TWO OR THREE LETTERS OR NUMBERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.
 EXAMPLE: SA1001
 SA = SUPERSTRUCTURE BAR
 10 = #10 BAR
 01 = BAR SEQUENCE NUMBER 1
 - BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE INDICATED.
 - STR. IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
 - RAD INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
 - INCR. INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
 - STD. WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF A BAR.
 - FIELD BEND BARS AS NECESSARY TO MATCH CURVATURE OF ROADWAY.

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ISSUE RECORD NO.	DATE	DESCRIPTION



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET **3/65** THRU **7/65**.
 - FOR TRANSVERSE SECTION, SEE SHEET **2/6**.

- LEGEND:**
- [Hatched Box] - LIMITS OF MILLING & MICRO-SILICA CONCRETE OVERLAY ON BRIDGE DECK
 - [Cross-hatched Box] - LIMITS OF MILLING & MICRO-SILICA CONCRETE OVERLAY ON APPROACH SLAB

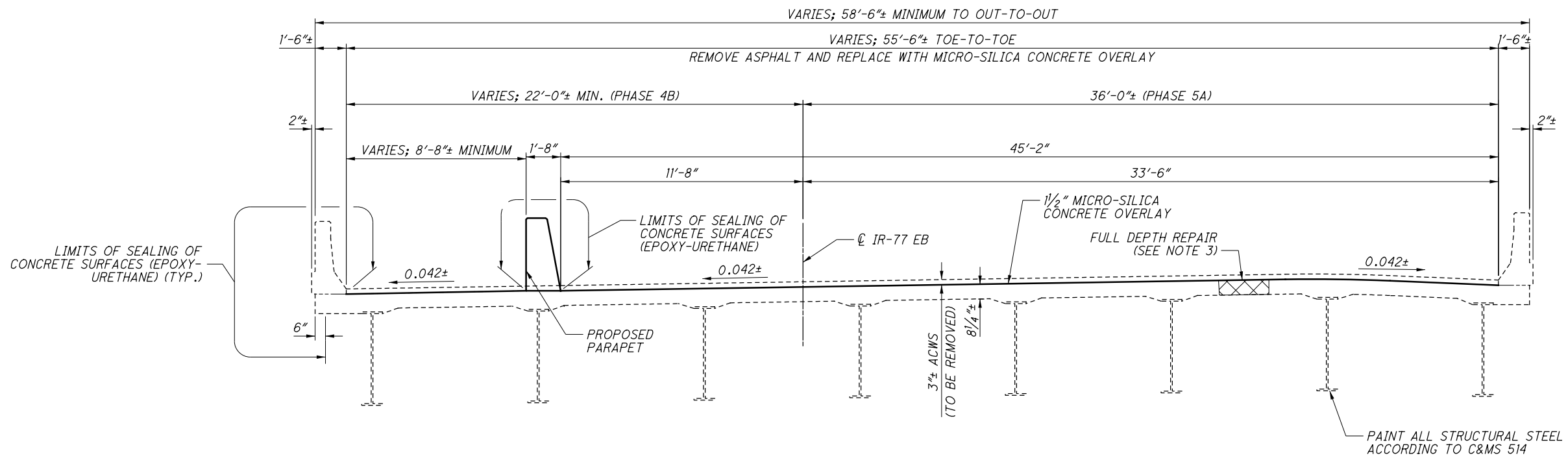
EXISTING STRUCTURE	
TYPE: FIVE SPAN CONTINUOUS STEEL GIRDERS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE	
SPANS: 86'-10 ³ / ₈ "±, 102'-9 ⁵ / ₈ "±, 71'-7 ³ / ₈ "±, 105'-3 ⁵ / ₈ "±, 91'-0 ¹ / ₈ "± C/C BEARINGS	
ROADWAY: VARIES	
LOADING: HS20-44 CASE 1 AND THE ALTERNATE MILITARY LOADING	
WEARING SURFACE: 1"± MONOLITHIC CONCRETE	
SKEW: VARIES	
APPROACH SLABS: 25'-0"± LONG (AS-1-81)	
ALIGNMENT: SPIRAL AND COMPOUND CURVE LEFT	
SUPERELEVATION: 0.045 FT/FT	
COORDINATES: LATITUDE 41°03'41.5"± N LONGITUDE 81°30'18.0"± W	

2021-09-22_BU15 - RFC PLANS

DESIGN AGENCY PRIME 8415 Athens Road Columbus Ohio 43231	DATE	6/18/21
	REVIEWED	SAN
	DRAWN	KDC
	CHECKED	JAT
SUMMIT COUNTY	STA. 535+57.13±	STA. 540+24.11±
GENERAL PLAN	BRIDGE NO. SUM-76-1154R	1-76 EB OVER SR-8
SUM-76/77/8-	8.24/9.74/0.00	PID No. 102329
1/6	27	65

pw:\VANVA01P\WINT01\parsons.com:Ohio_State\Documents\DB-Akron Beltway Rehab\10 - Design\102329\Structures\BU-15\Sheets\076-1154R_TS001.dgn Sheet 10/4/2021 2:49:44 PM KChrisman

ISSUE RECORD NO.	DATE	DESCRIPTION



TRANSVERSE SECTION

LEGEND:
 - LIMITS OF FULL DEPTH REPAIR

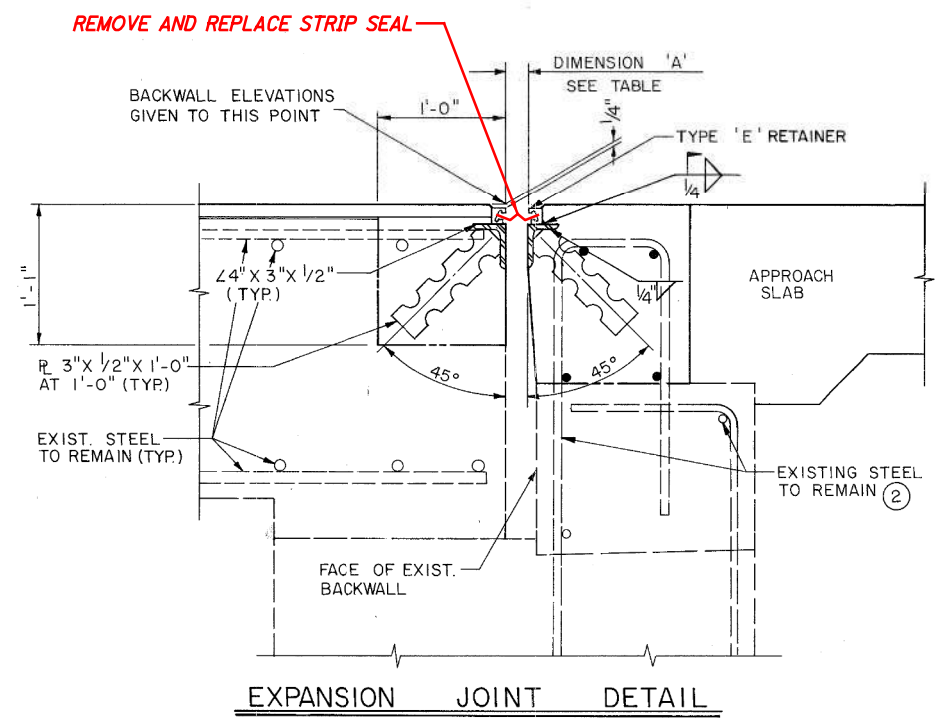
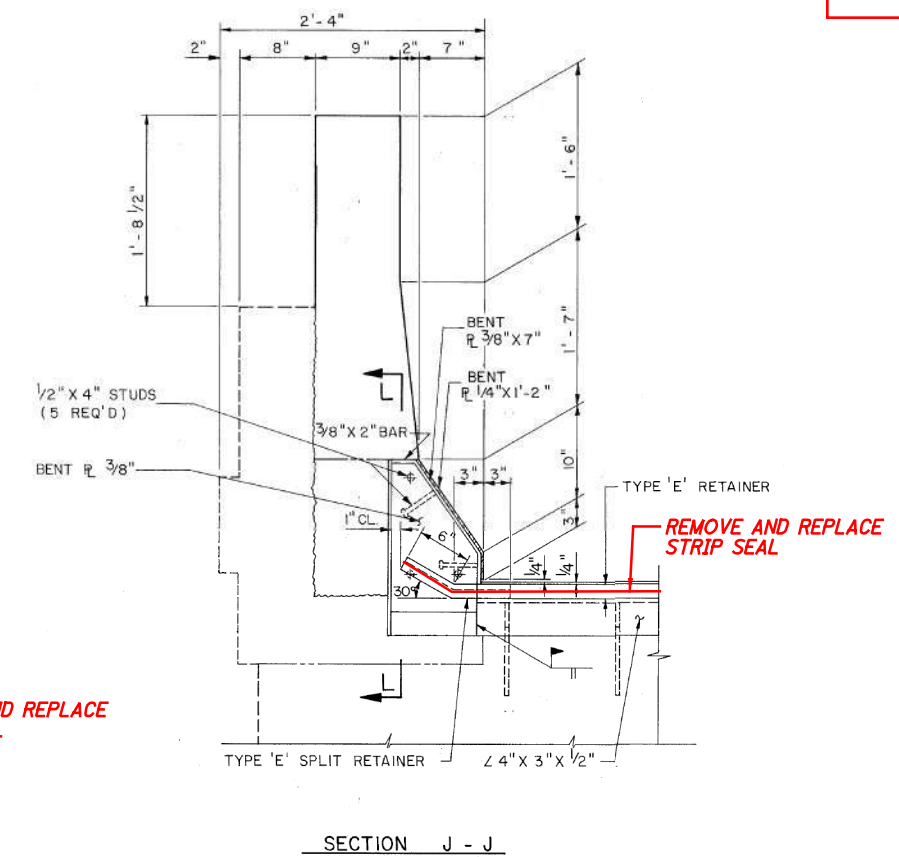
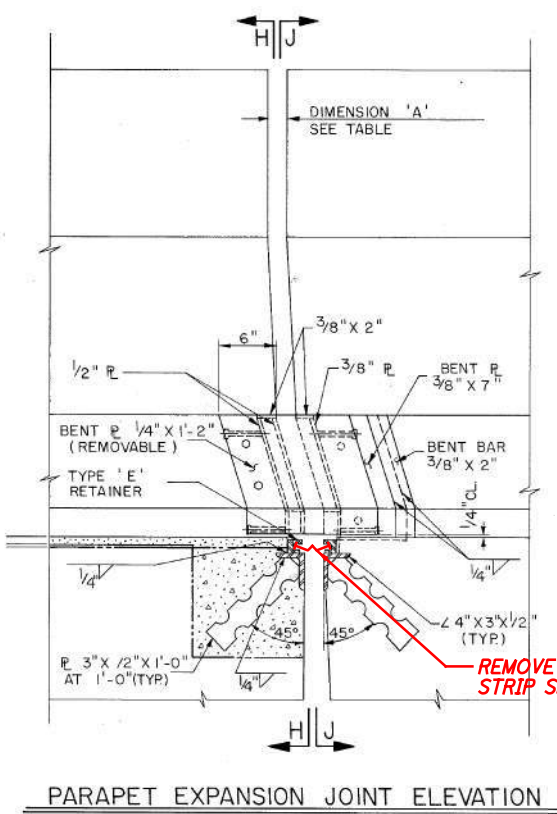
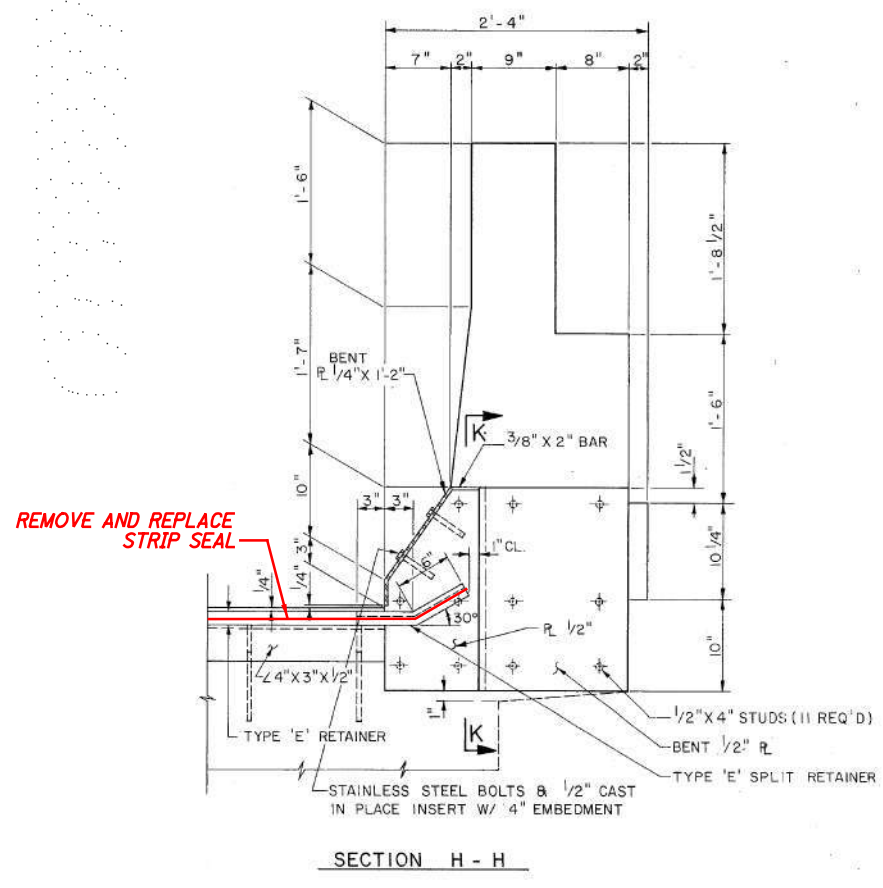
- NOTES:**
- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
 - FOR PROPOSED BARRIER DETAILS, SEE SHEET 4/6 THRU 5/6.
 - PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
 - REMOVE EXISTING ASPHALT CONCRETE WEARING SURFACE (ACWS) & PROVIDE NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE ORIGINAL DECK ELEVATION.

2021-09-22_BU 15 - RFC PLANS

DESIGN AGENCY PRIME 8415 Park Plaza Columbus Ohio 43231	
DATE 6/18/21	STRUCTURE FILE NUMBER 7706030
REVIEWED SAN	DRAWN KDC
DESIGNED KDC	CHECKED JAT
TRANSVERSE SECTION BRIDGE NO. SUM-76-1154R I-76 EB OVER SR-8	
SUM-76/77/8- 8.24/9.74/0.00	PID No. 102329
2/6	28/65

ISSUE RECORD NO.	DATE	DESCRIPTION

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ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

DIMENSION 'A'							
TEMPERATURE °F		40	50	60	70	80	90
		2 1/16"	2 1/32"	2"	1 3/32"	1 5/16"	1 7/8"

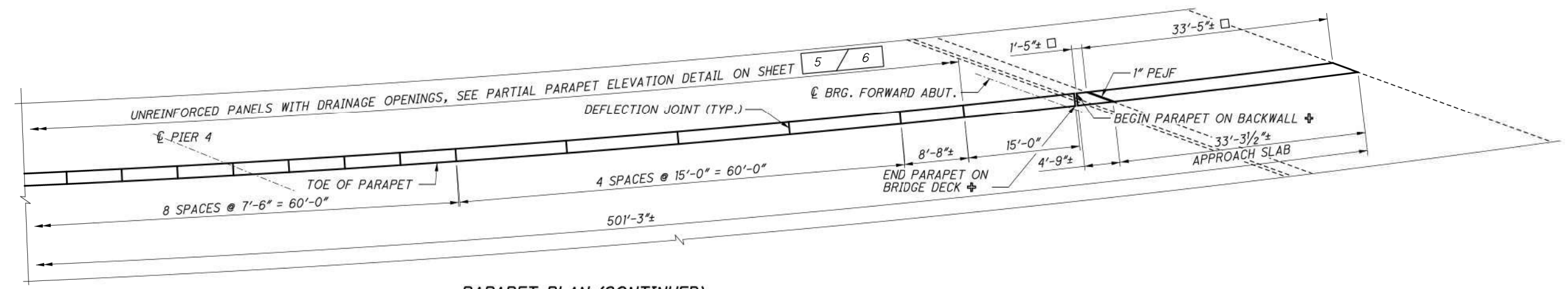
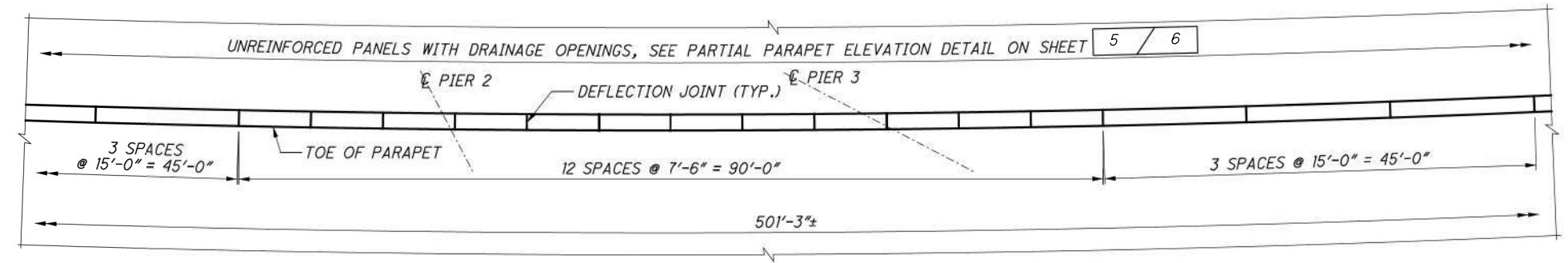
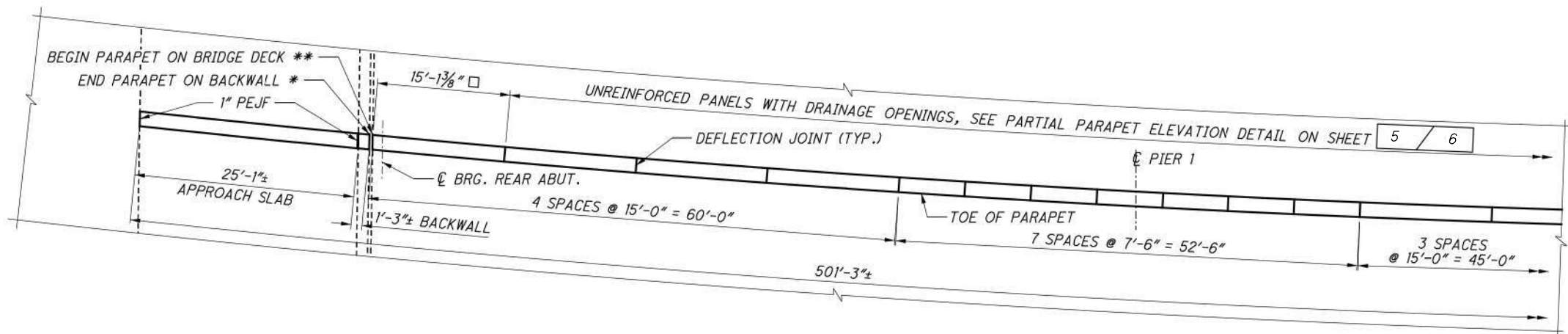
NOTES:

- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.

2021-09-22_BU 15 - RFC PLANS

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ISSUE RECORD NO.	DATE	DESCRIPTION



NOTE:

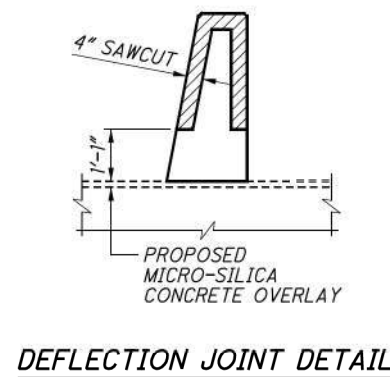
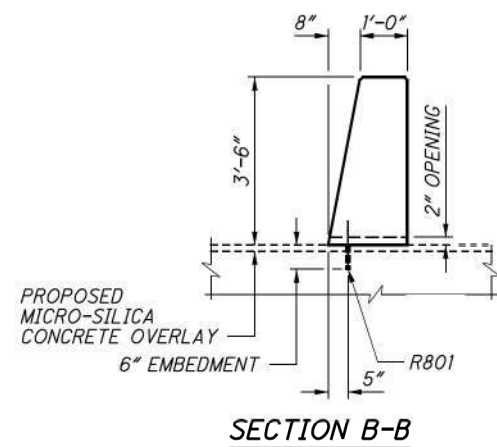
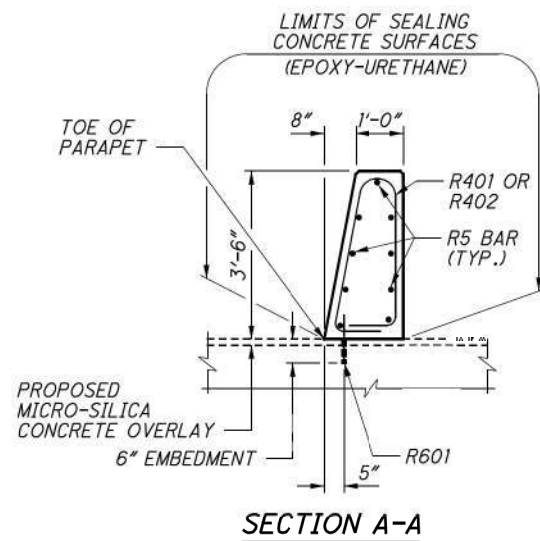
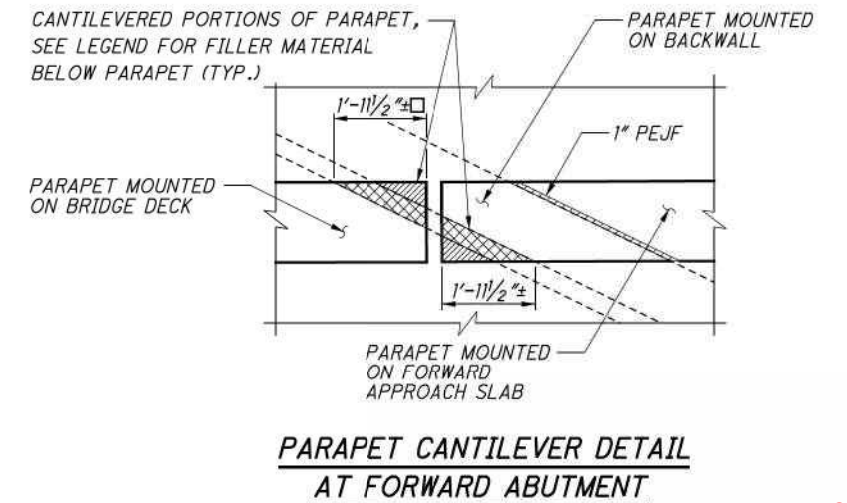
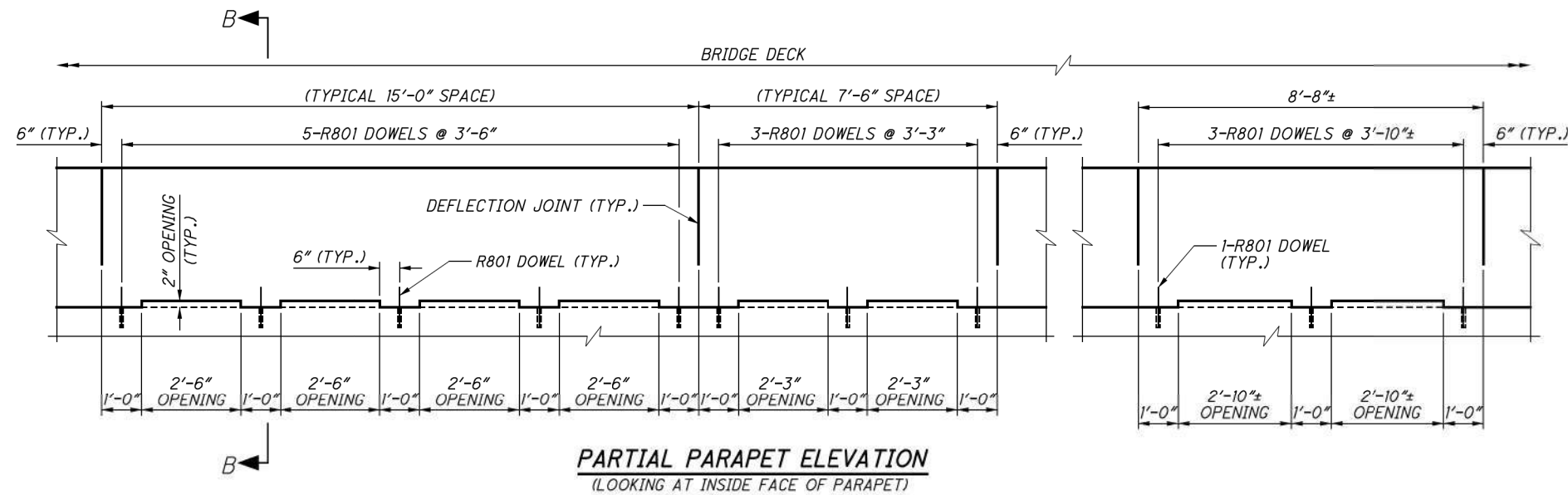
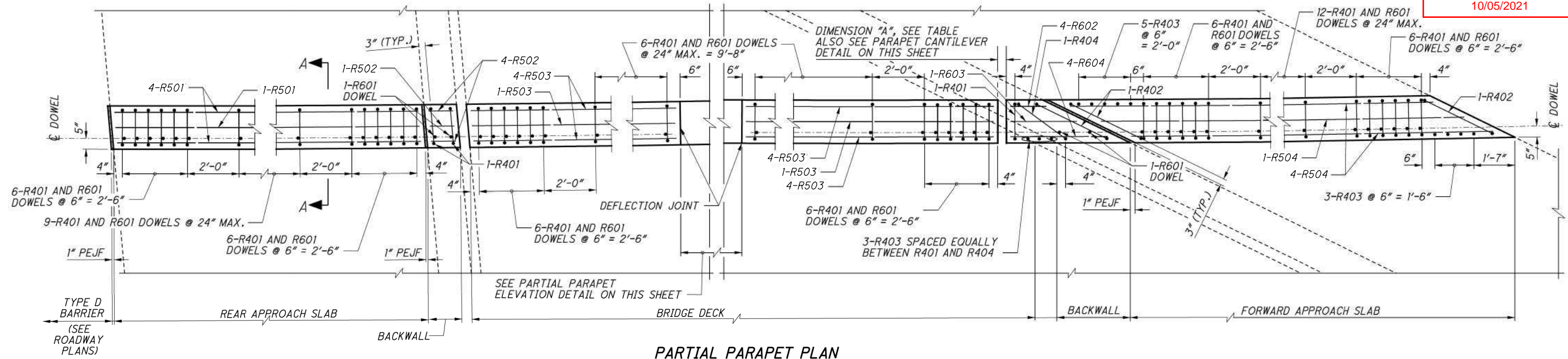
ALL LONGITUDINAL DIMENSIONS ARE MEASURED ALONG TOE OF PARAPET, UNLESS NOTED OTHERWISE.

LEGEND:

- * = ALIGN WITH THE EDGE OF EXISTING 7"x4"x1/2" ANGLE
- ** = ALIGN WITH THE EDGE OF EXISTING 6"x4"x1/2" ANGLE
- ⊕ = SEE SHEET 5/6 FOR DETAILS
- = MEASURED ALONG BACK FACE OF PARAPET

NOTES:

1. FOR REINFORCING LIST, SEE SHEET 6/6.



NOTES:

1. FOR REINFORCING LIST, SEE SHEET 6/6.

AMBIENT TEMP. F°	JOINT OPENING BETWEEN PARAPETS AT FORWARD ABUTMENT, DIMENSION "A"
30	4 3/4"
40	4 1/2"
50	4 1/4"
60	4"
70	3 3/4"
80	3 1/2"
90	3 1/4"

NOTE:

ALL LONGITUDINAL DIMENSIONS ARE MEASURED ALONG TOE OF PARAPET, UNLESS NOTED OTHERWISE.

LEGEND:

- = 1" PEJF
- = REMOVABLE FORMING MATERIAL
- = MEASURED ALONG BACK FACE OF PARAPET

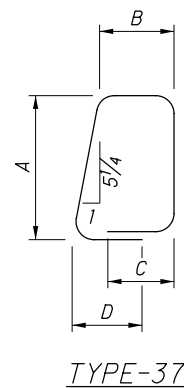
ISSUE RECORD NO.	DATE	DESCRIPTION

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ISSUE RECORD NO.	DATE	DESCRIPTION

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
PARAPET											
R401	72	8'-2"	393	37	3'-2"	6"	1'-0"	1'-0"			
R402	3	15'-8"	31	37	3'-2"	2'-9"	3'-3"	3'-3"			
R403	8	3'-0"	16	STR							
R404	1	12'-5"	8	37	3'-2"	1'-8"	2'-2"	2'-2"			
R501	9	24'-7"	231	STR							
R502	9	9"	7	STR							
R503	18	14'-6"	272	STR							
R504	9	32'-9"	307	STR							
*R601	73	1'-0"	110	STR							
R602	4	11"	6	STR							
R603	1	2'-7"	4	STR							
R604	4	4'-3"	26	STR							
*R801	149	1'-0"	398	STR							
SUB-TOTAL			1809								

* - INDICATES DOWEL BAR



DESIGN AGENCY
PRIME
 8415 Atlas Road
 Columbus Ohio 43231

REINFORCING STEEL LIST
 BRIDGE NO. SUM-76-1154R
 I-76 EB OVER SR-8

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

6/6
 32/65

REVIEWED DATE 6/18/21
 SAN
 STRUCTURE FILE NUMBER 7706030

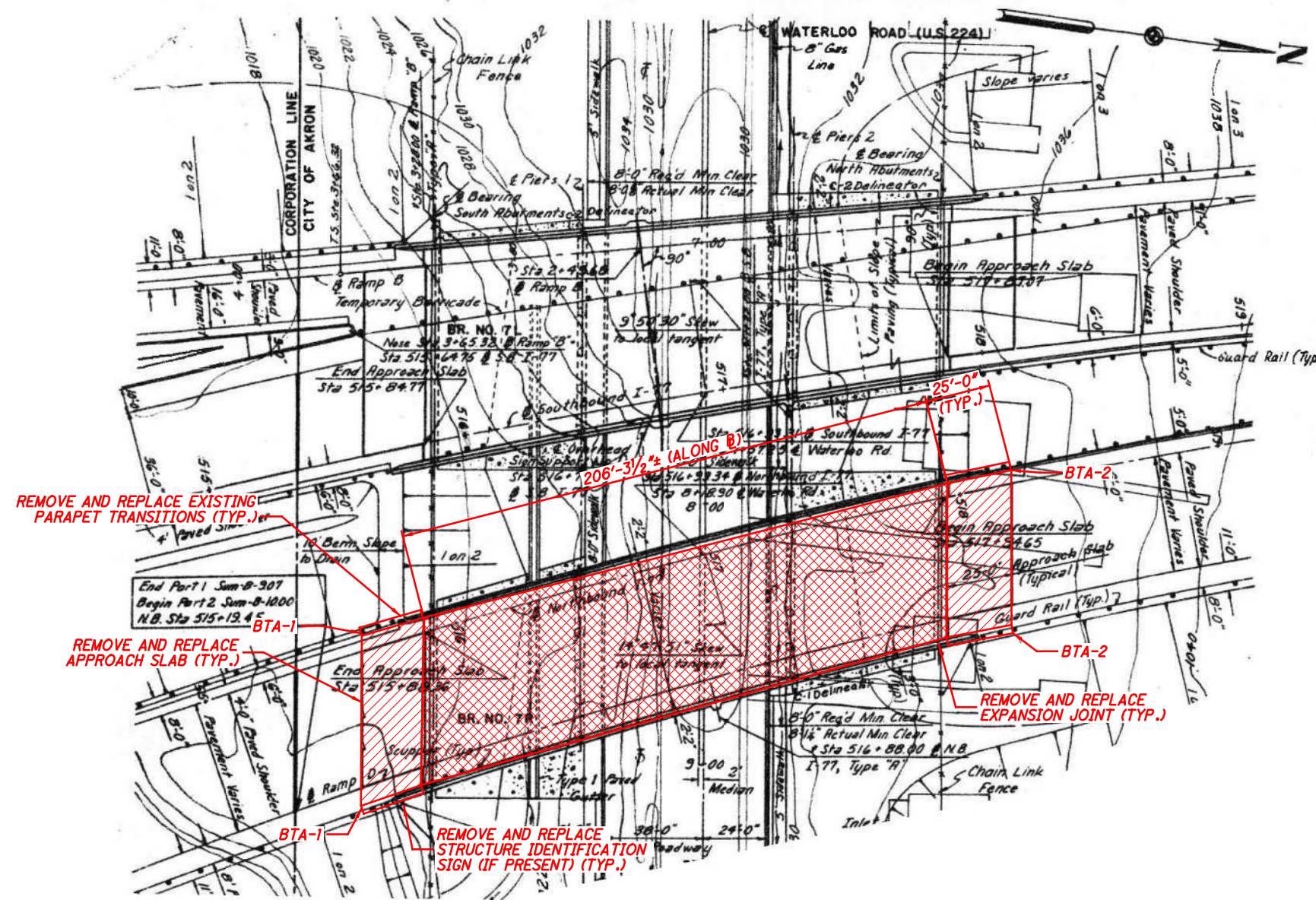
DRAWN KDC
 KDC
 REVISED

DESIGNED KDC
 KDC
 CHECKED JAT

- NOTES:**
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 - BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH TWO OR THREE LETTERS OR NUMBERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.

 EXAMPLE: SA1001
 SA = SUPERSTRUCTURE BAR
 10 = #10 BAR
 01 = BAR SEQUENCE NUMBER 1
 - BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE INDICATED.
 - STR. IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
 - RAD INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
 - INCR. INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
 - STD. WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF A BAR.
 - FIELD BEND BARS AS NECESSARY TO MATCH CURVATURE OF ROADWAY.

2021-09-22_BU 15 - RFC PLANS



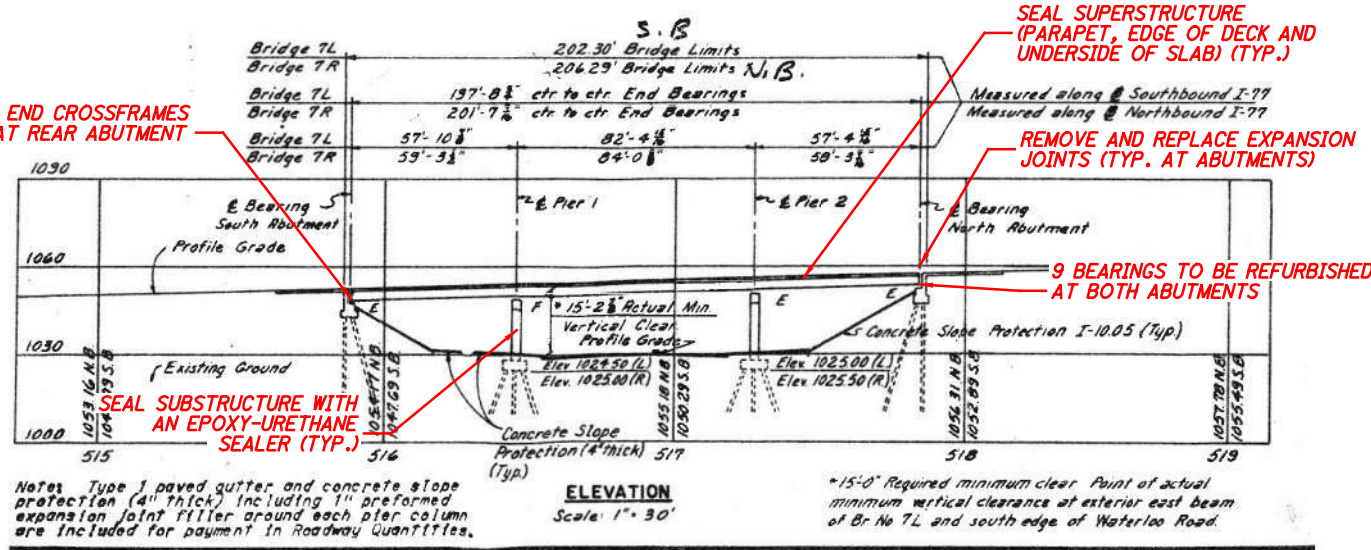
ORIGINAL CONSTRUCTION
 PLANS SHOWN FOR
 INFORMATION ONLY

LEGEND:

- LIMITS OF APPROACH SLAB REMOVAL AND REPLACEMENT
- LIMITS OF MICRO-SILICA CONCRETE OVERLAY ON BRIDGE DECK

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 3/65 THRU 7/65.
2. FOR TRANSVERSE SECTION AND END CROSSFRAME DETAILS, SEE SHEET 3/8.
3. FOR REMOVAL DETAILS, SEE SHEET 2/8.
4. FOR EXPANSION JOINT DETAILS, SEE SHEET 4/8.
5. FOR APPROACH SLAB DETAILS, SEE SHEETS 5/8 THRU 7/8.



EXISTING STRUCTURE	
TYPE:	THREE SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS:	59'-3 1/2"±, 84'-0 3/8"±, 58'-3 3/16"± C/C BEARINGS
ROADWAY:	VARIES
LOADING:	HS 20-44 (CASE I) AND ALTERNATE MILITARY LOADING
WEARING SURFACE:	1.2"± MONOLITHIC
SKEW:	VARIES
APPROACH SLABS:	25'-0"± LONG (AS-1-54)
ALIGNMENT:	2°30'00"± RIGHT
SUPERELEVATION:	0.081 FT/FT
COORDINATES:	LATITUDE 41°01'45"± N LONGITUDE 81°30'16"± W

2021-09-22_BU 15 - RFC PLANS

ISSUE RECORD NO.	DATE	DESCRIPTION

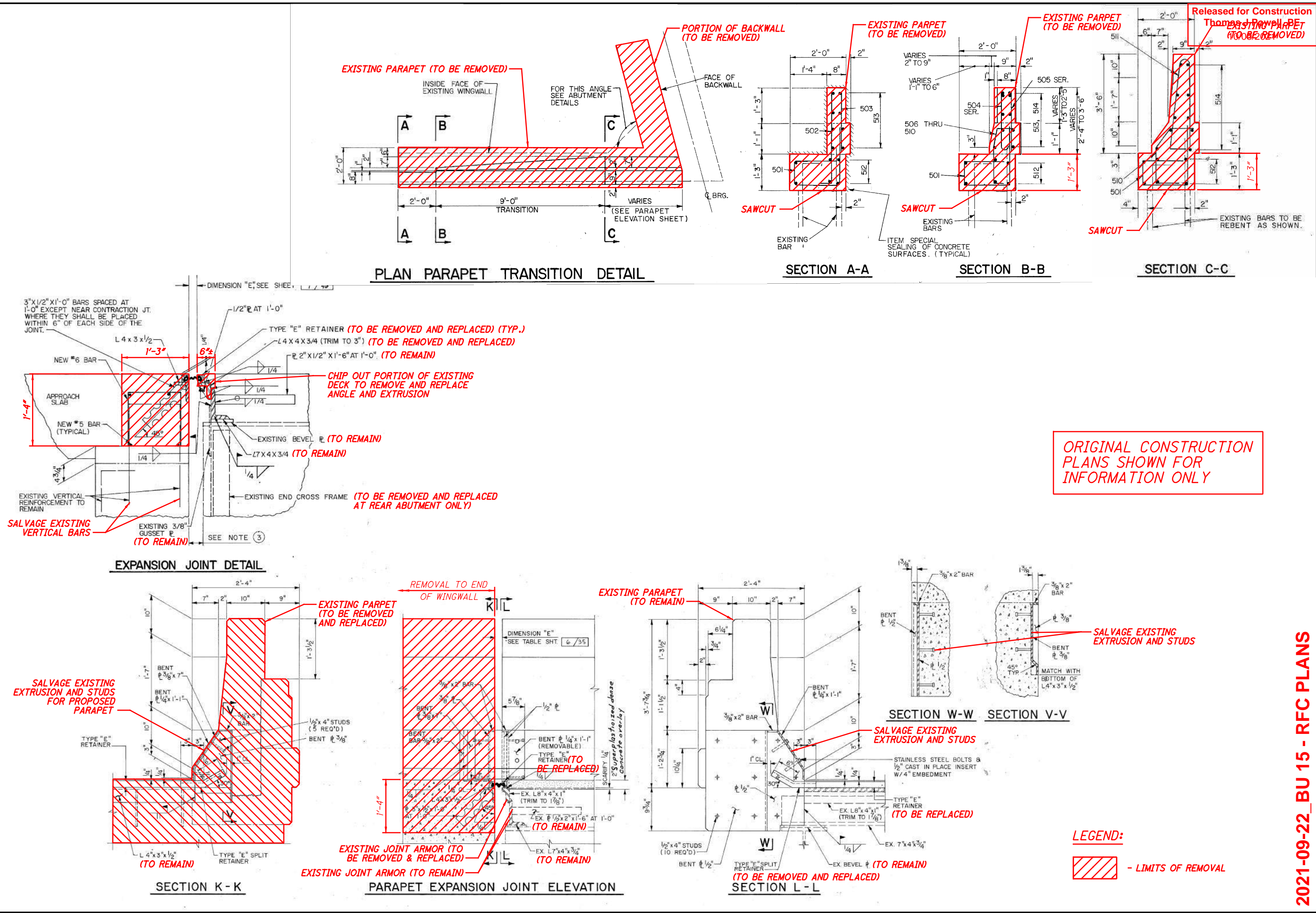
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Issue Record: NO. DATE DESCRIPTION

Issue Record: NO. DATE DESCRIPTION

Issue Record: NO. DATE DESCRIPTION

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ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

LEGEND:
 - LIMITS OF REMOVAL

2021-09-22_BU 15 - RFC PLANS

DESIGN AGENCY: **PRIME**
 8415 Athens Road, Suite 300
 Columbus, Ohio 43231

DATE: 6/18/21
 REVIEWED: SAN
 STRUCTURE FILE NUMBER: 7702736

DRAWN: JAT
 CHECKED: JAT
 REVISION:

DESIGNED: JAT

WINGWALL AND BRIDGE DECK REMOVAL DETAILS

BRIDGE NO. SUM-77-0374R
 I-77 NB OVER WATERLOO ROAD

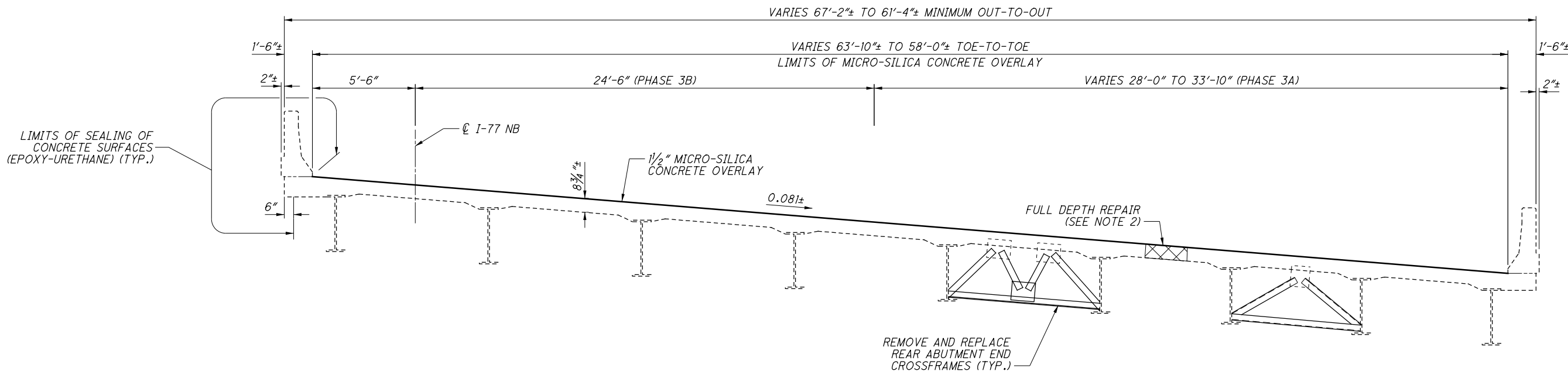
SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

2/8

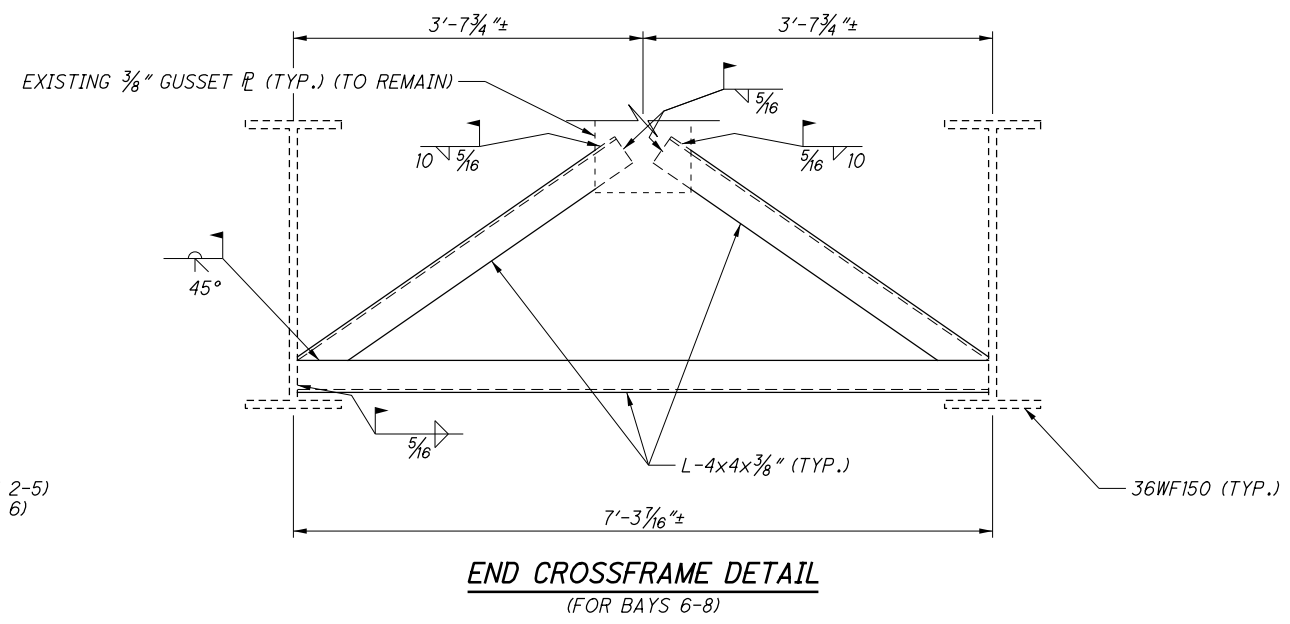
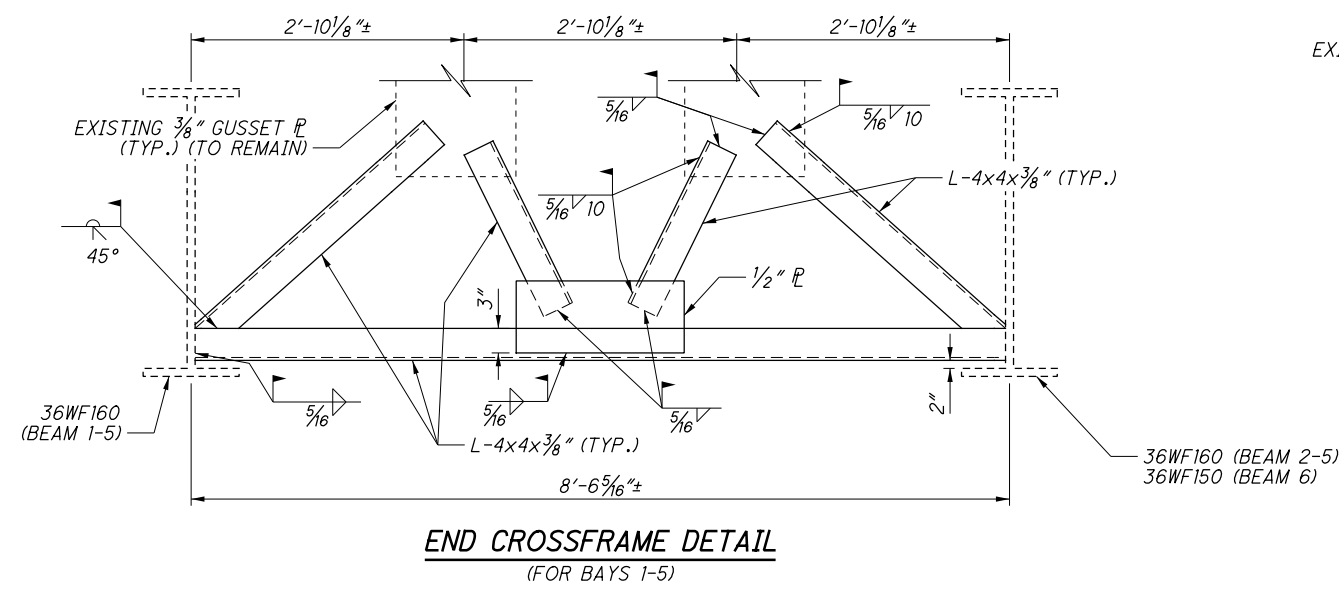
34
 65

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ISSUE RECORD NO.	DATE	DESCRIPTION



TRANSVERSE SECTION



NOTES:

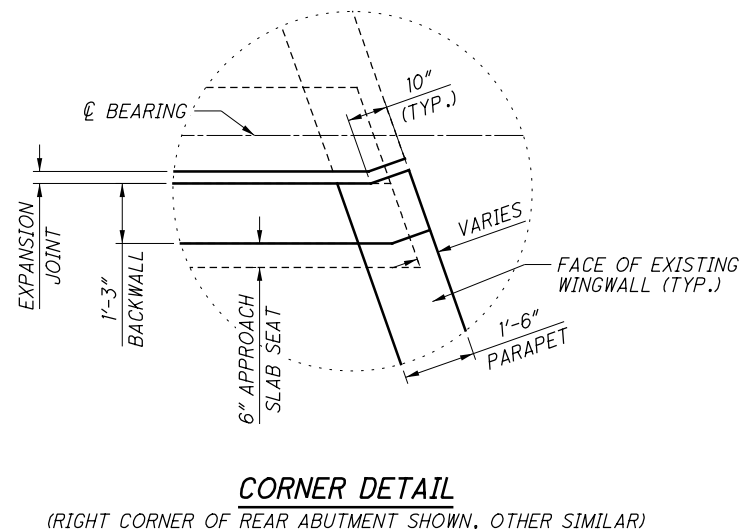
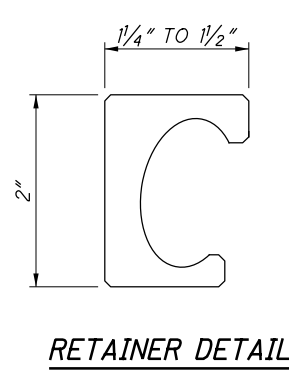
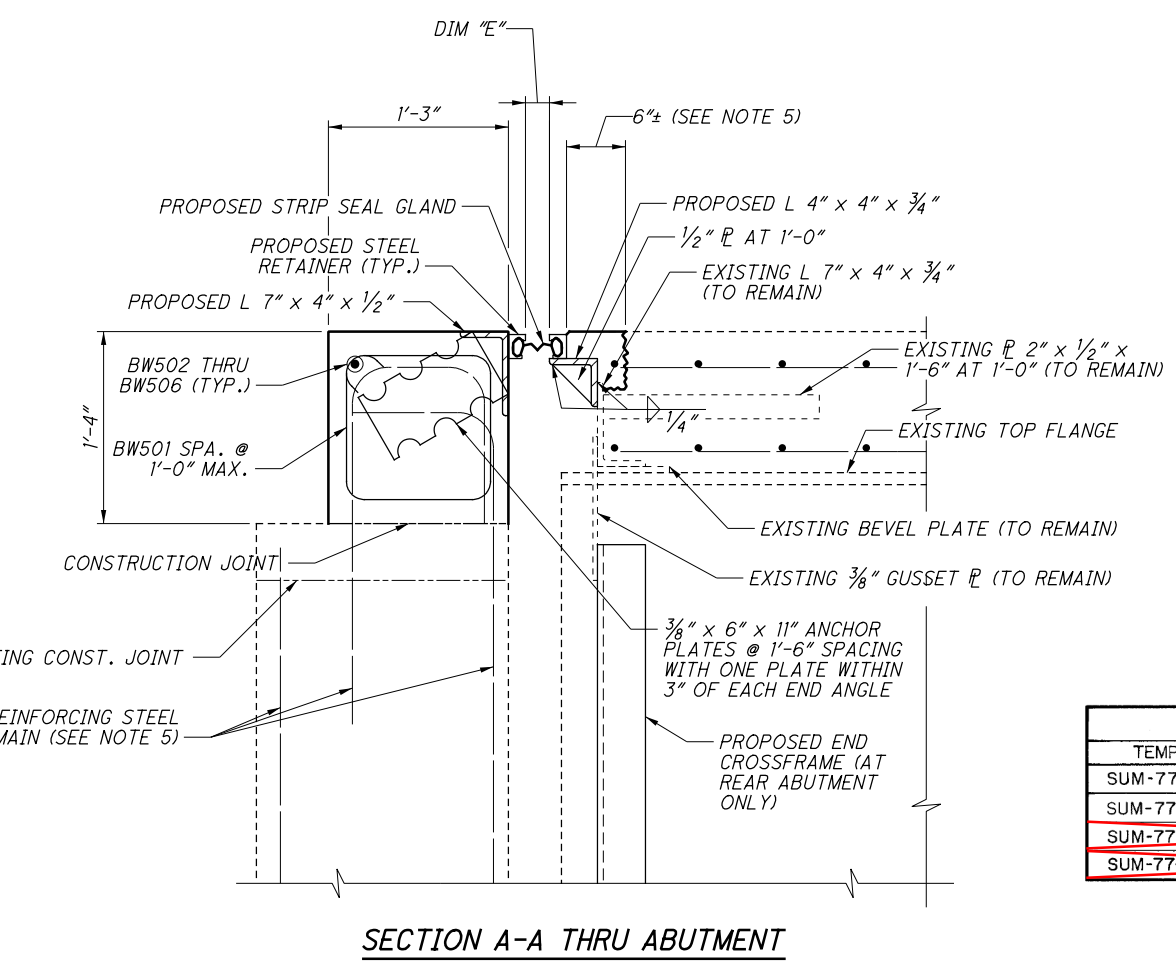
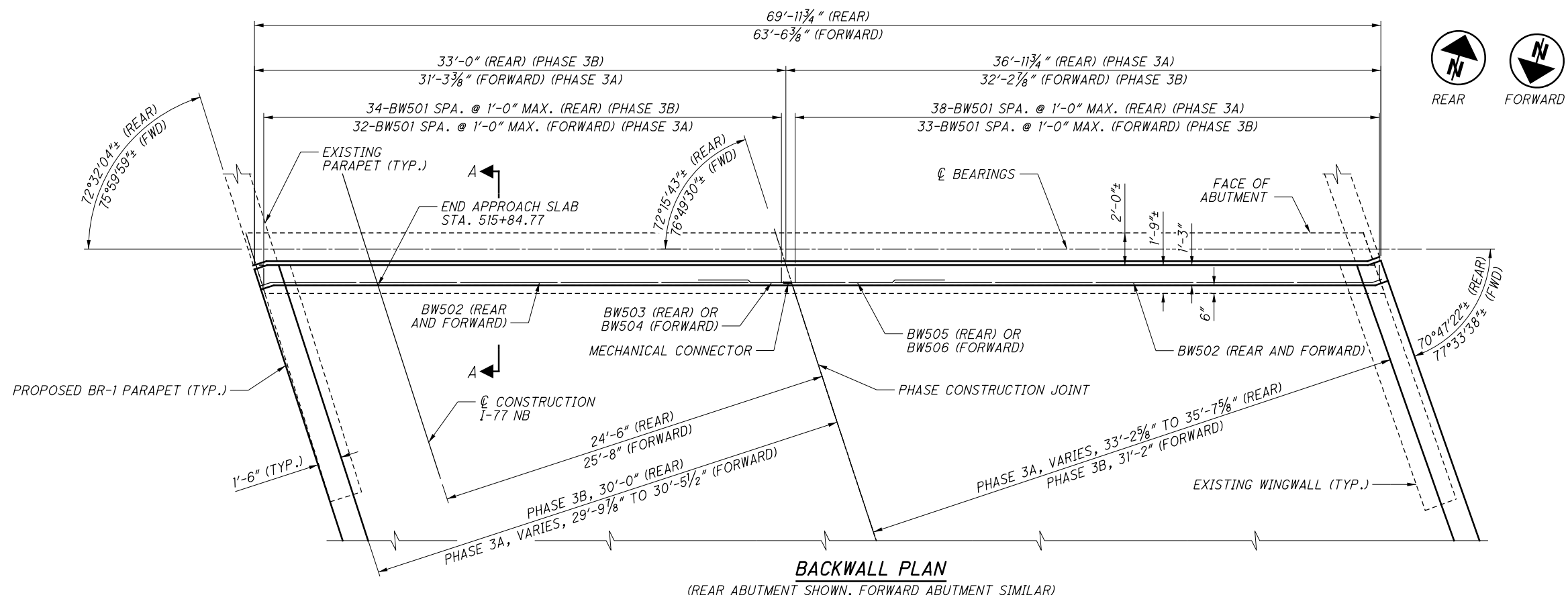
- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
- FOR ADDITIONAL END CROSSFRAME NOTES AND DETAILS, SEE STD. DWG. GSD-1-19.
- PROVIDE NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT EXISTING DECK ELEVATION.

LEGEND:



2021-09-22_BU 15 - RFC PLANS

DESIGN AGENCY PRIME 8415 Atlas Road Columbus Ohio 43231	DATE 6/18/21
	STRUCTURE FILE NUMBER 7702736
REVIEWED SAN	DATE 6/18/21
DRAWN JAT	CHECKED KDC
DESIGNED JAT	REVISIONS REVISED
TRANSVERSE SECTION BRIDGE NO. SUM-77-0974R I-77 NB OVER WATERLOO ROAD	
SUM-76/77/8- 8.24/9.74/0.00 PID No. 102329	
3/8	
35/65	



DIMENSION E					
TEMPERATURE, °F	50°	60°	70°	80°	90°
SUM-77-9.75R S.ABUT.	2 1/16"	2"	1 5/16"	1 5/16"	1 7/8"
SUM-77-9.75R N.ABUT.	2 1/8"	2"	1 7/8"	1 3/4"	1 1/16"
SUM-77-9.75L S.ABUT.	2 1/16"	2"	1 9/16"	1 9/16"	1 7/8"
SUM-77-9.75L N.ABUT.	2 1/8"	2"	1 7/8"	1 9/16"	1 1/16"

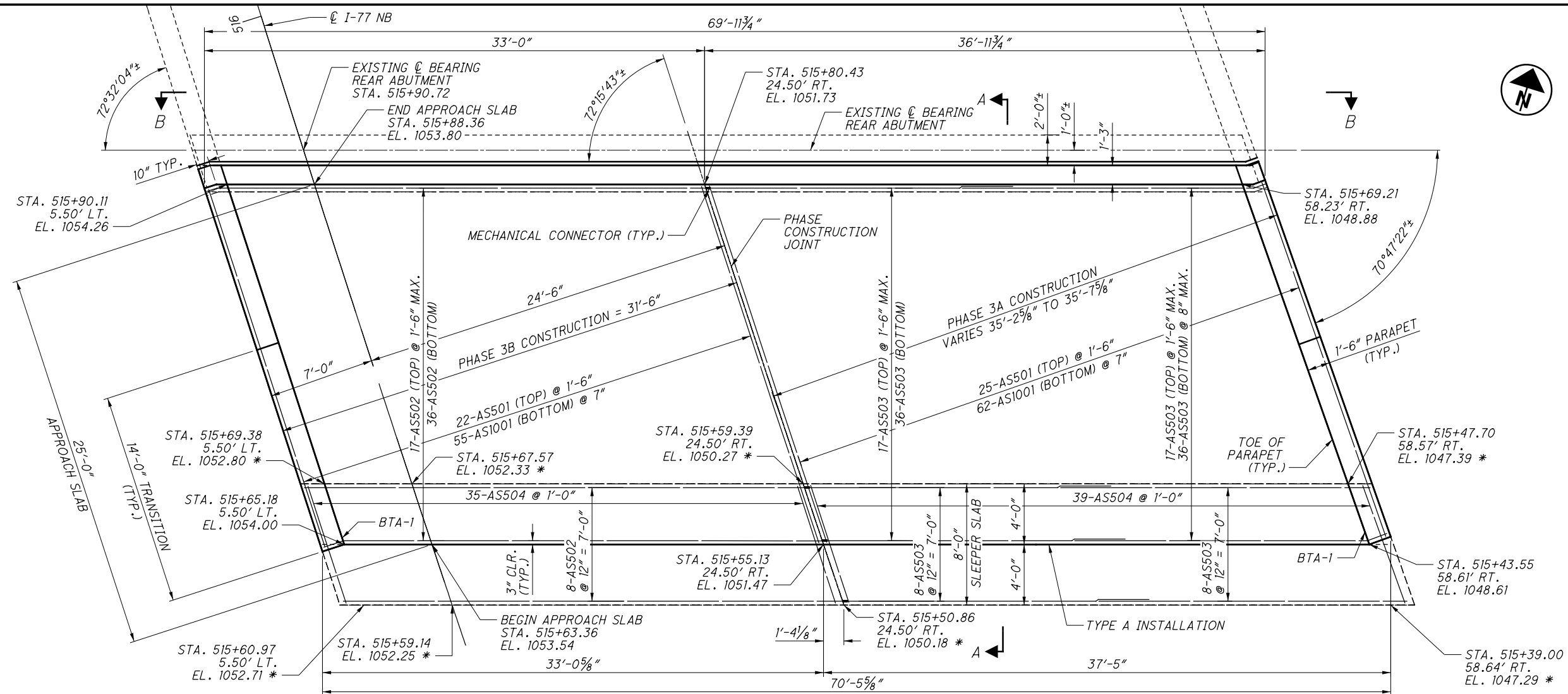
- NOTES:**
- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWG. EXJ-4-87.
 - FOR REAR ABUTMENT END CROSSFRAME DETAILS, SEE SHEET 3/8.
 - FOR PARAPET DETAILS, SEE SHEET 7/8.
 - FOR REINFORCING LIST, SEE SHEET 8/8.
 - CHIP AWAY PORTION OF EXISTING BRIDGE DECK TO REMOVE AND REPLACE JOINT ANGLE AND EXTRUSION.

ISSUE RECORD	NO.	DATE	DESCRIPTION

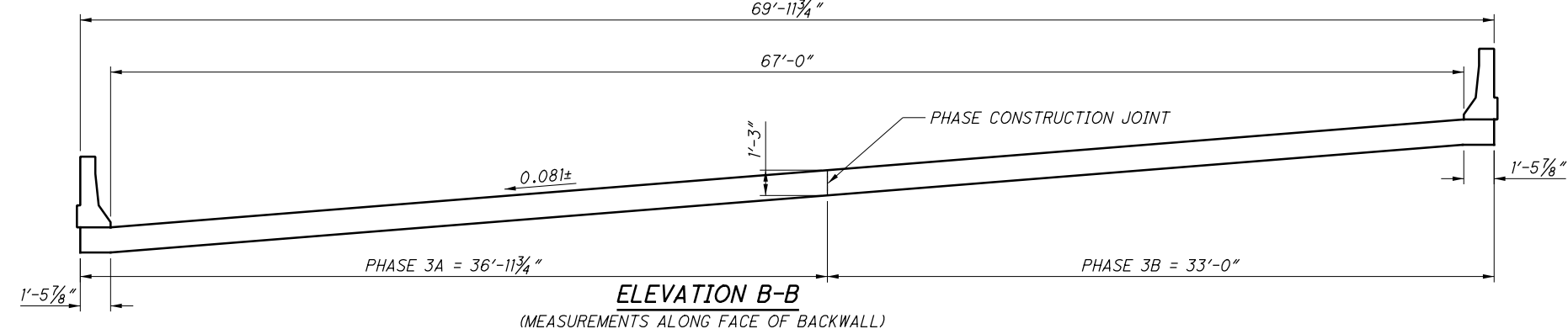
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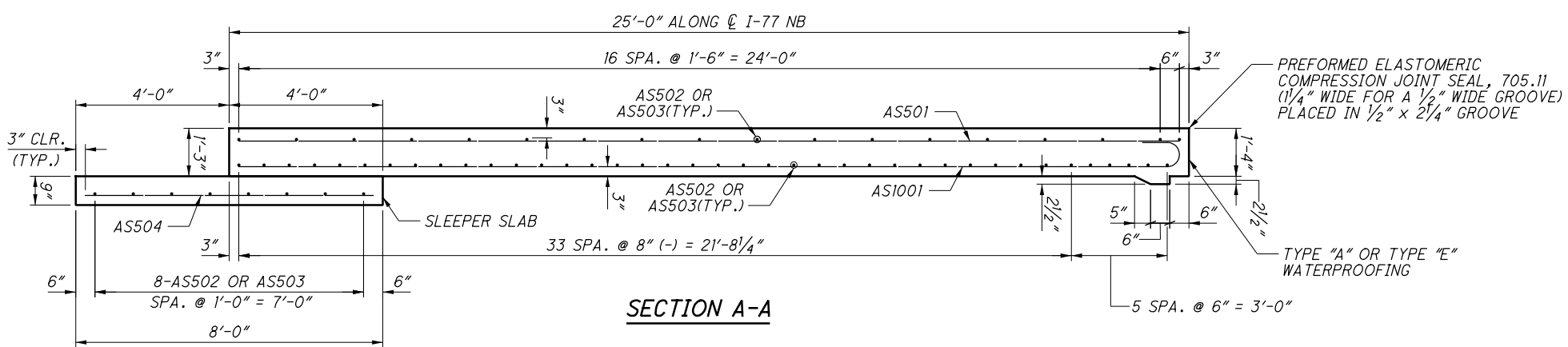
ISSUE RECORD NO.	DATE	DESCRIPTION



PLAN



ELEVATION B-B
 (MEASUREMENTS ALONG FACE OF BACKWALL)



SECTION A-A

LEGEND:

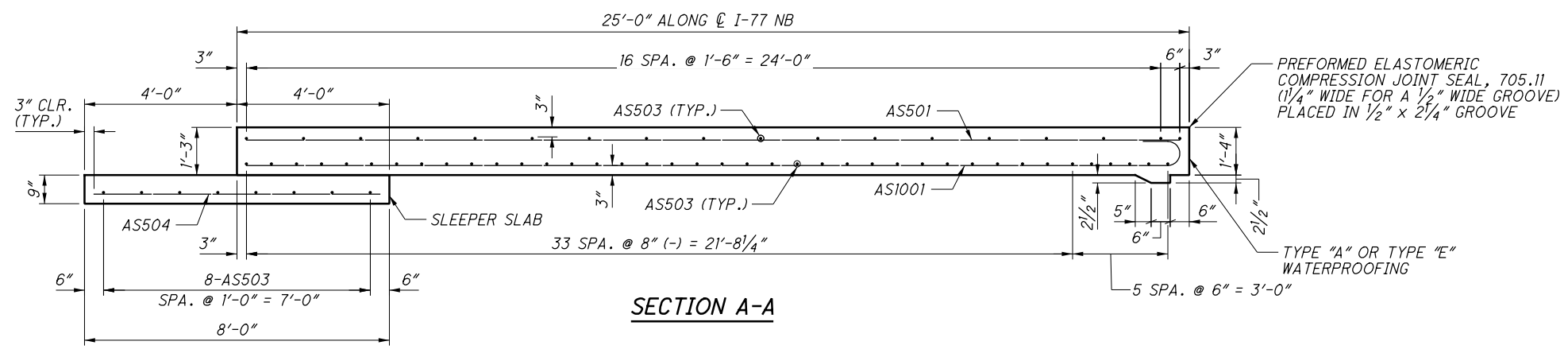
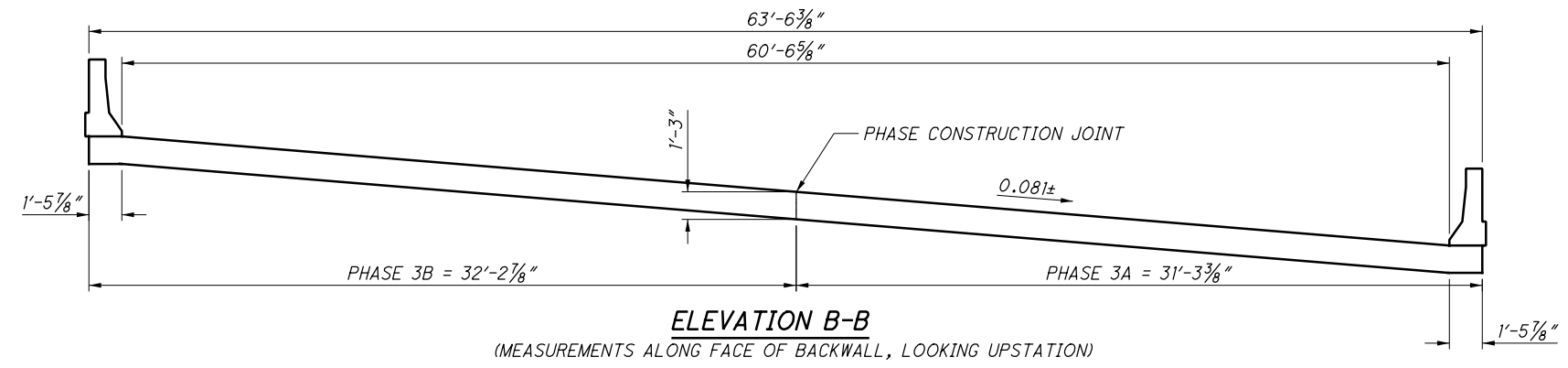
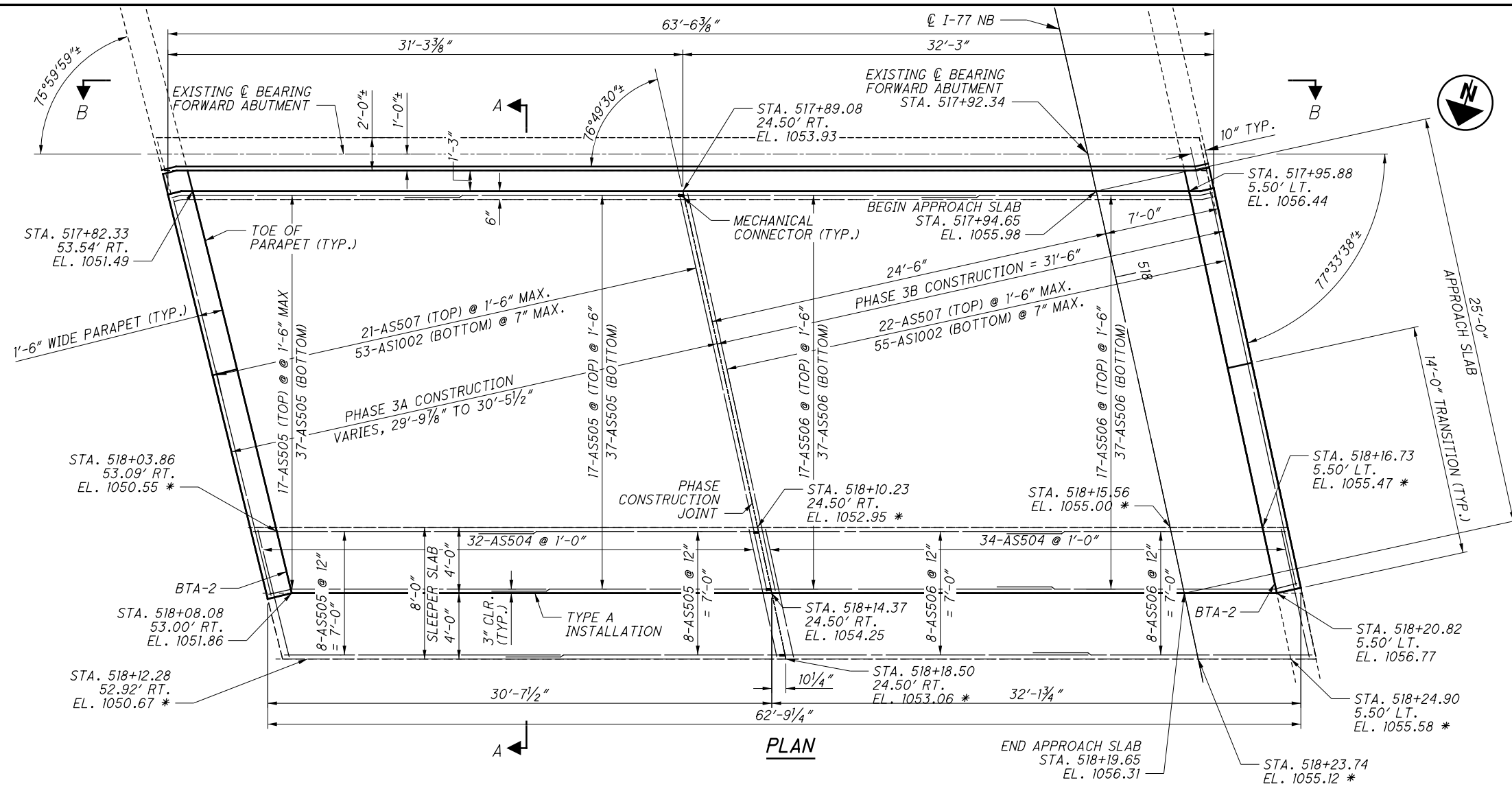
* - ELEVATION SHOWN IS TO TOP OF SLEEPER SLAB

MINIMUM LAP LENGTHS:

#5 BAR = 3'-1"

NOTES:

- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWGS. AS-1-15 AND AS-2-15.
- FOR PARAPET DETAILS, SEE SHEET 7/8.
- FOR REINFORCING LIST, SEE SHEET 8/8.



LEGEND:
 * - ELEVATION SHOWN IS TO TOP OF SLEEPER SLAB

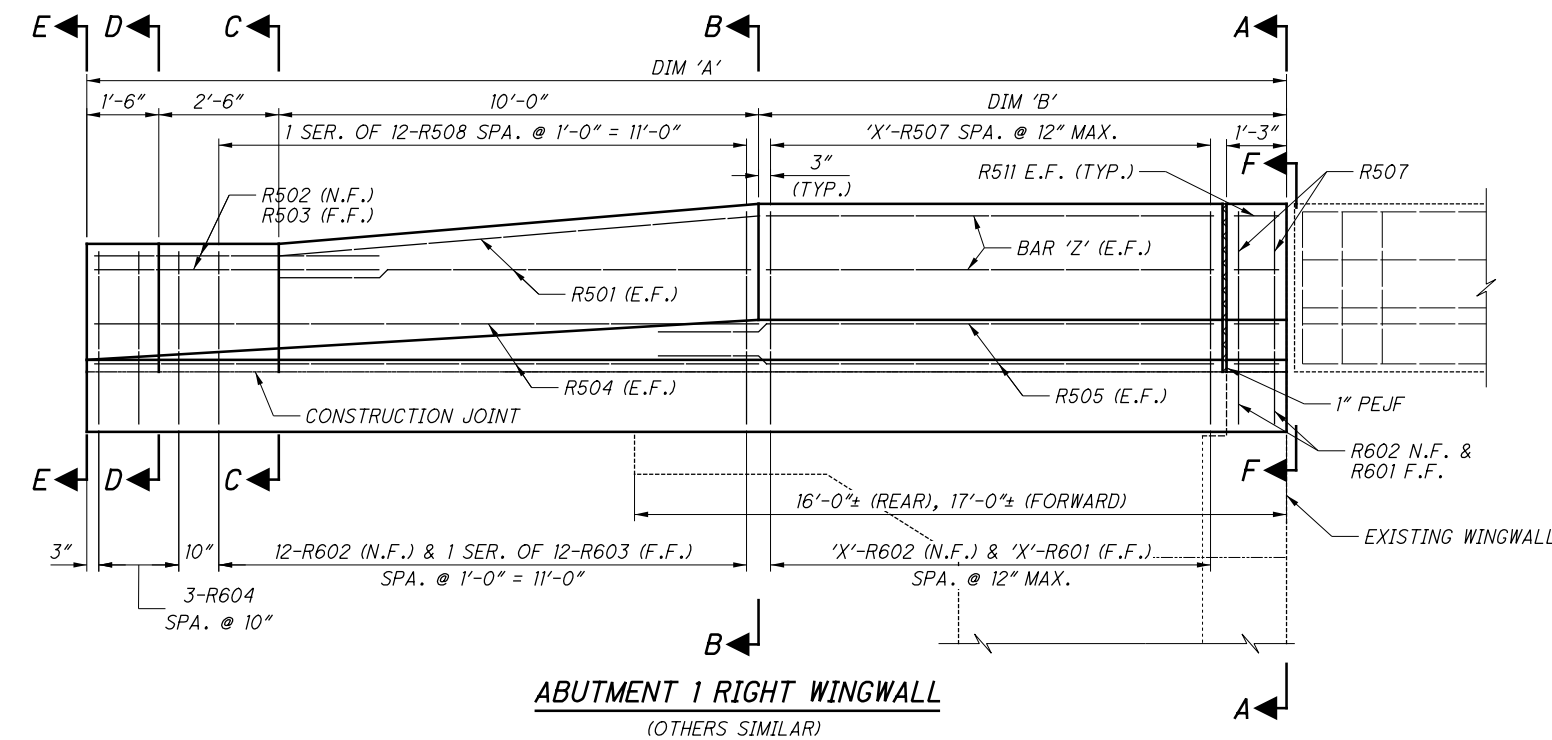
MINIMUM LAP LENGTHS:
 #5 BAR = 3'-1"

- NOTES:**
- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWGS. AS-1-15 AND AS-2-15.
 - FOR PARAPET DETAILS, SEE SHEET 7/8.
 - FOR REINFORCING LIST, SEE SHEET 8/8.

ISSUE RECORD NO.	DATE	DESCRIPTION

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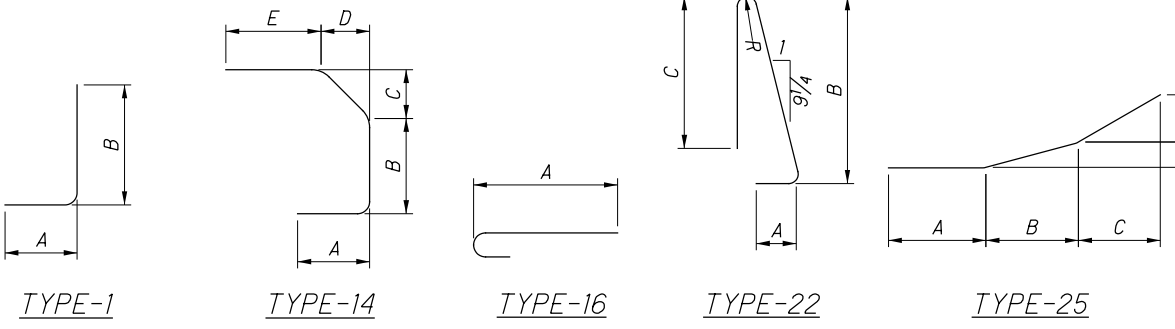
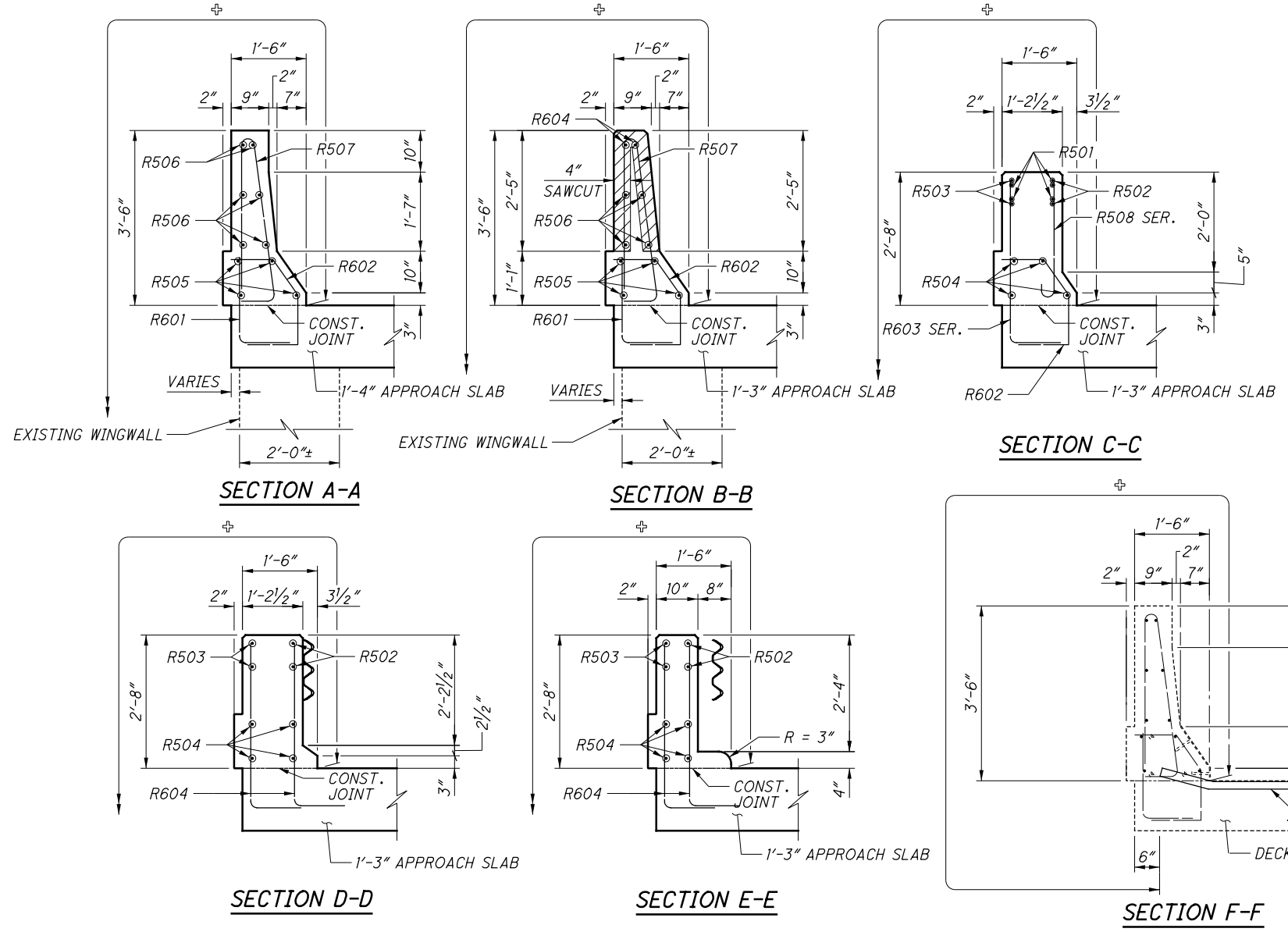
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LOCATION	DIM 'A'	DIM 'B'	'X' SETS	BAR 'Z'
LEFT REAR	25'-2 3/8"	11'-2 3/8"	10	R506
RIGHT REAR	25'-2 3/8"	11'-2 3/8"	10	R506
LEFT FWD.	25'-3 3/4"	11'-3 3/4"	10	R510
RIGHT FWD.	25'-0"	11'-0"	10	R509

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
APPROACH SLAB PARAPET											
R501	16	10'-0"	167	STR							
R502	8	5'-8"	47	STR	1'-10"	2'-5"	1'-4"	1 1/2"	5"		
R503	8	5'-8"	47	STR							
R504	16	13'-10"	231	STR							
R505	16	12'-0"	200	STR							
R506	8	9'-6"	79	STR							
R507	48	6'-11"	346	22	0'-8"	3'-0"	3'-3"			0'-2"	
	4 SR	3'-0"			2'-4 1/2"						
R508	OF	TO	171	16	TO						3/4"
	12	3'-10"			3'-3"						
R509	4	9'-4"	39	STR							
R510	4	9'-7"	40	STR							
R511	32	11"	31	STR							
R601	48	2'-7"	186	1	1'-0"	1'-9"					
R602	96	3'-3"	469	14	0'-7"	0'-6"	0'-8 1/2"	1'-0"	1'-2"		
	4 SR	4'-1"			3'-3"						
R603	OF	TO	327	1	1'-0"	TO					3/4"
	12	5'-0"			4'-1 1/2"						
R604	12	4'-1"	74	1	1'-0"	3'-3"					
SUB-TOTAL			2454								

ABUTMENT 1 RIGHT WINGWALL
(OTHERS SIMILAR)



LEGEND:
⊕ - LIMITS OF SEALING (EPOXY-URETHANE). SEAL ENTIRE SURFACE DOWN TO THE PROPOSED GROUND LINE

NOTES:
1. FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWG. BR-1-13.
2. CLEAR DISTANCE FROM THE EDGE OF CONCRETE TO THE FACE OF REINFORCING STEEL SHALL BE 2" UNLESS NOTED OTHERWISE.
3. FOR REINFORCING STEEL NOTES, SEE SHEET 8/8.

APPROACH PARAPET DETAILS
BRIDGE NO. SUM-77-0974R
I-77 NB OVER WATERLOO RD

2021-09-22_BU 15 - RFC PLANS
SUM-76/77/8-
8.24/9.74/0.00
PID No. 102329
7/8
39
65

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ISSUE RECORD NO.	DATE	DESCRIPTION

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	PHASE 3A	PHASE 3B	TOTAL				A	B	C	D	E	R	INC
REAR APPROACH SLAB													
AS501	25	22	47	24'-6"	1201	STR							
AS502		61	61	32'-9"	2084	STR							
AS503	122		122	20'-1"	2558	STR							
AS504	39	35	74	7'-11"	611	STR							
AS1001	62	55	117	25'-11"	13048	16	24'-6"						
SUB-TOTAL					19502								

* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	PHASE 3A	PHASE 3B	TOTAL				A	B	C	D	E	R	INC
FORWARD APPROACH SLAB													
AS504	32	34	66	7'-11"	545	STR							
AS505	124		124	17'-1"	2209	STR							
AS506		124	124	17'-7"	2274	STR							
AS507	21	22	43	24'-6"	1099	STR							
AS1002	53	55	108	25'-11"	12044	16	24'-6"						
SUB-TOTAL					18171								

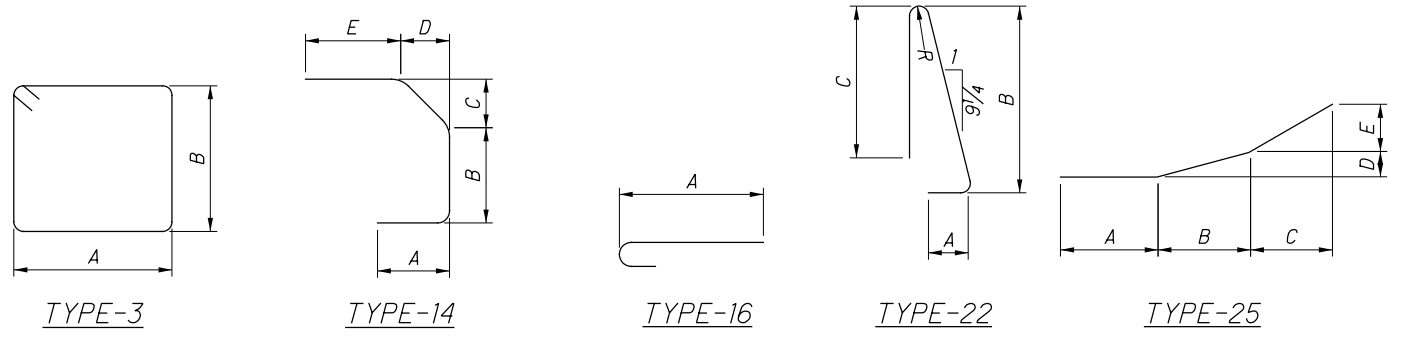
* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC
REAR ABUTMENT BACKWALL													
BW501	38	34	72	4'-6"	338	3	11"	1'-0"					
BW502	1	1	2	30'-0"	63	STR							
BW503	1		1	5'-11"	6	STR							
BW504	NOT USED												
*BW505		1	1	9'-11"	10	STR							
BW506	NOT USED												
SUB-TOTAL					417								

* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC
FORWARD ABUTMENT BACKWALL													
BW501	32	33	65	4'-6"	305	3	11"	1'-0"					
BW502	1	1	2	30'-0"	63	STR							
BW503	NOT USED												
*BW504	1		1	4'-4"	5	STR							
BW505	NOT USED												
BW506		1	1	5'-2"	5	STR							
SUB-TOTAL					378								

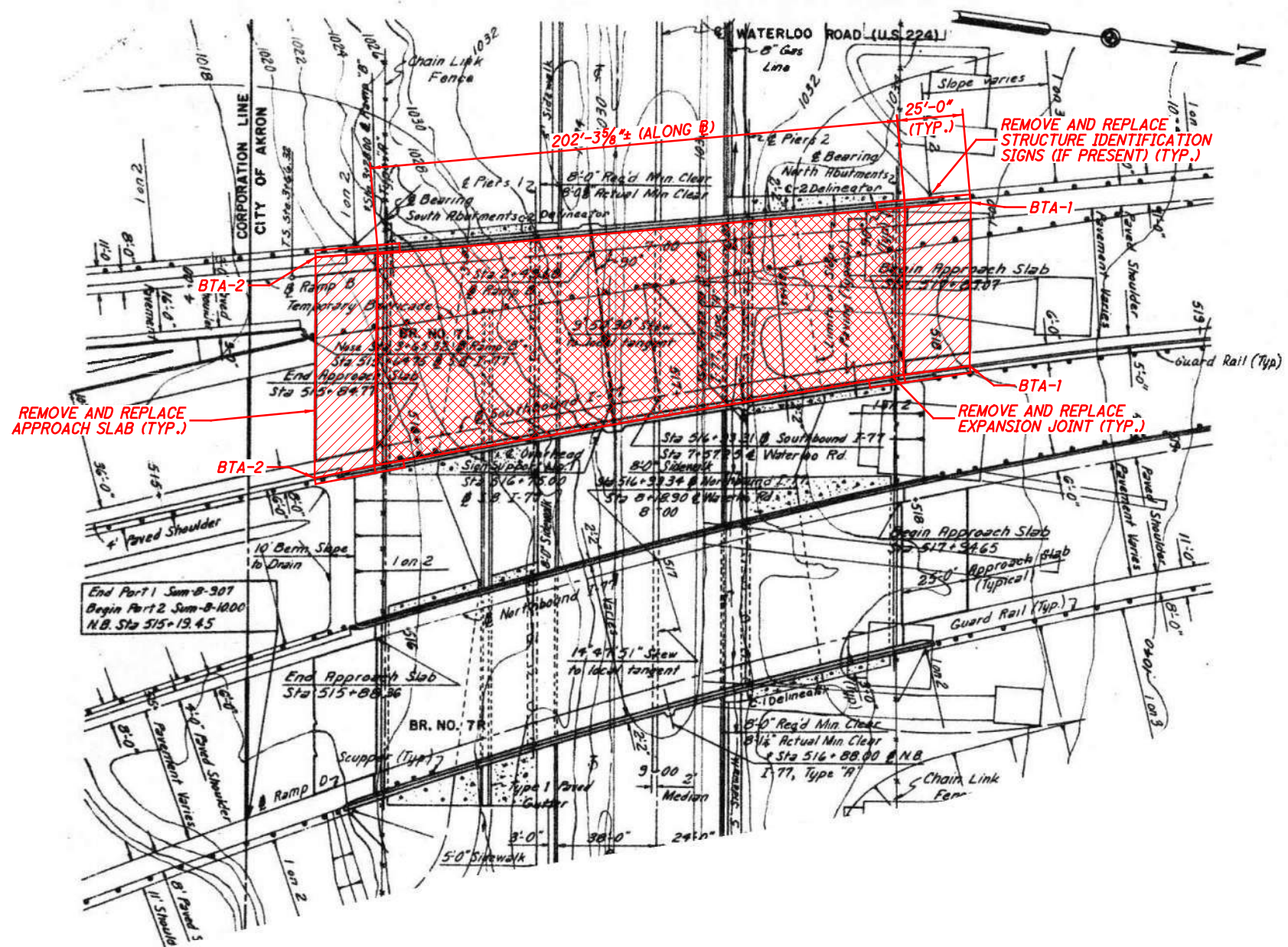
* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED



- NOTES:**
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
 - BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH TWO OR THREE LETTERS OR NUMBERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.
 EXAMPLE: SA1001
 SA = SUPERSTRUCTURE BAR
 10 = #10 BAR
 01 = BAR SEQUENCE NUMBER 1
 - BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE INDICATED.
 - STR. IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
 - RAD INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
 - INCR. INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
 - STD. WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF A BAR.
 - FIELD BEND BARS AS NECESSARY TO MATCH CURVATURE OF ROADWAY.

2021-09-22_BU 15 - RFC PLANS

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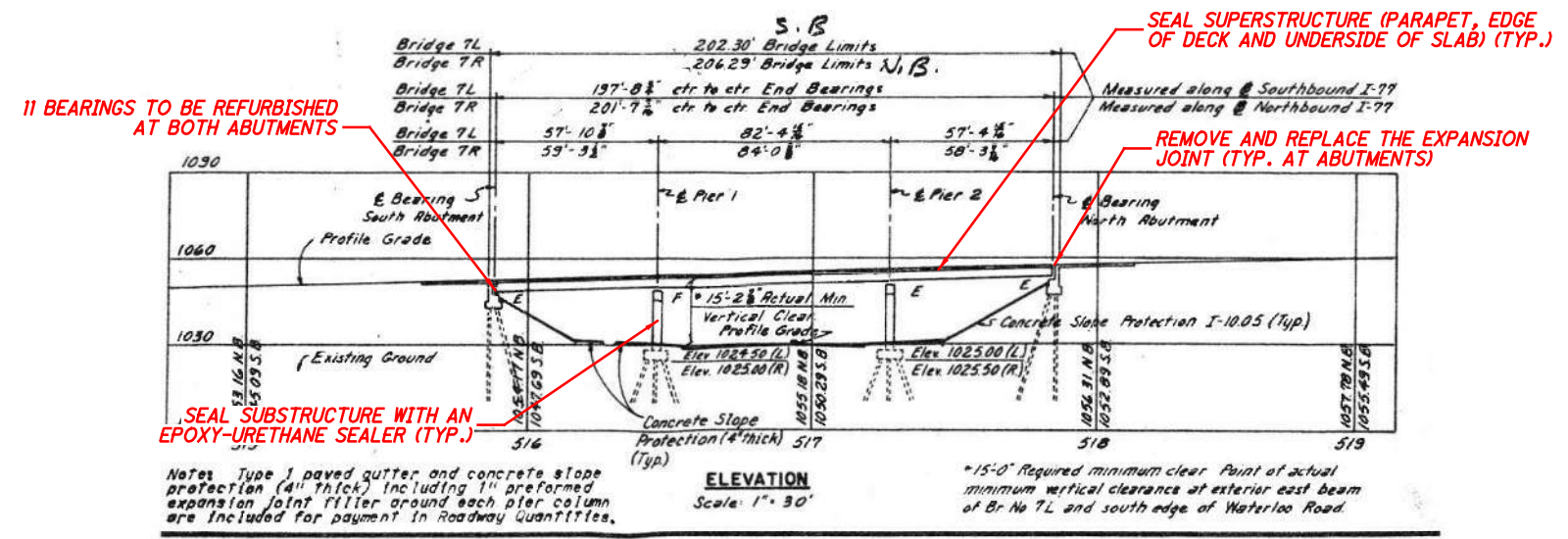


LEGEND:

- LIMITS OF APPROACH SLAB REMOVAL AND REPLACEMENT
- LIMITS OF MICRO-SILICA CONCRETE OVERLAY ON BRIDGE DECK

NOTES:

1. FOR GENERAL NOTES, SEE SHEET **3/8** THRU **7/65**.
2. FOR TRANSVERSE SECTION, SEE SHEET **3/8**.
3. FOR REMOVAL DETAILS, SEE SHEET **2/8**.
4. FOR EXPANSION JOINT DETAILS, SEE SHEET **4/8**.
5. FOR APPROACH SLAB DETAILS, SEE SHEETS **5/8** THRU **7/8**.

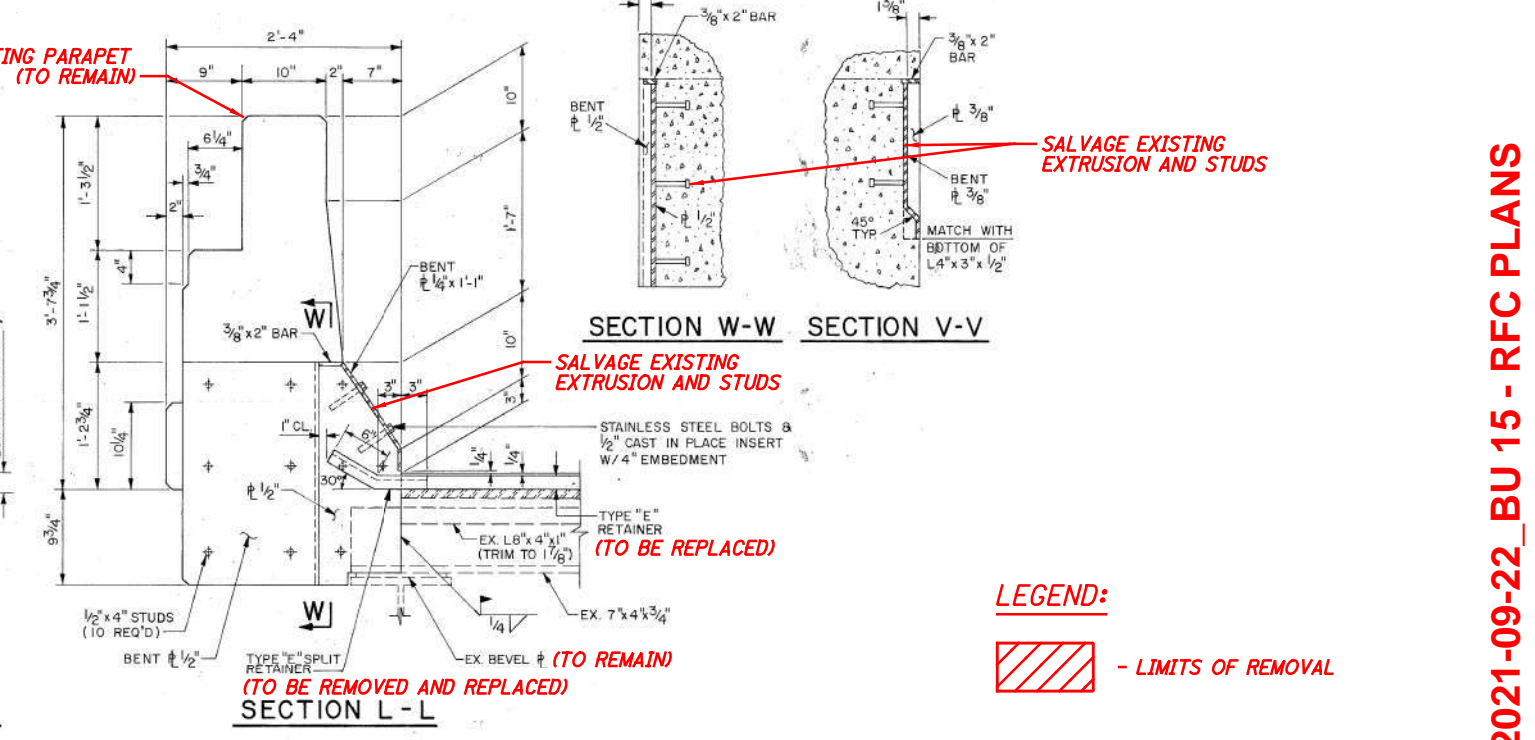
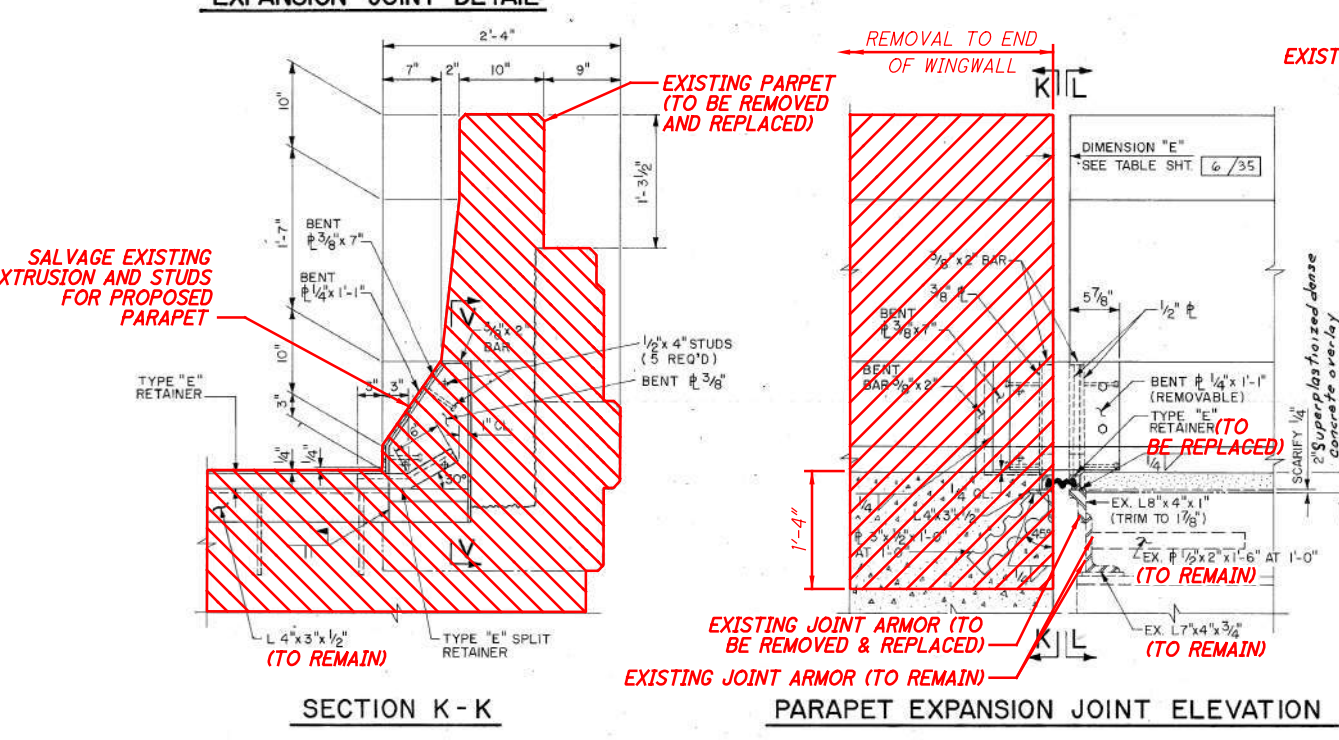
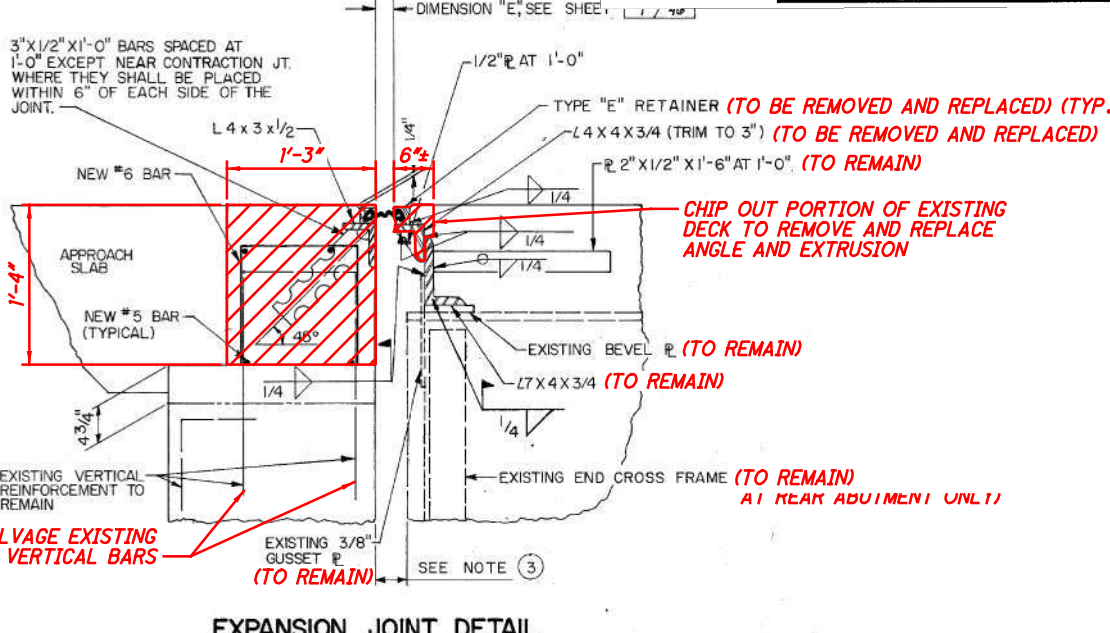
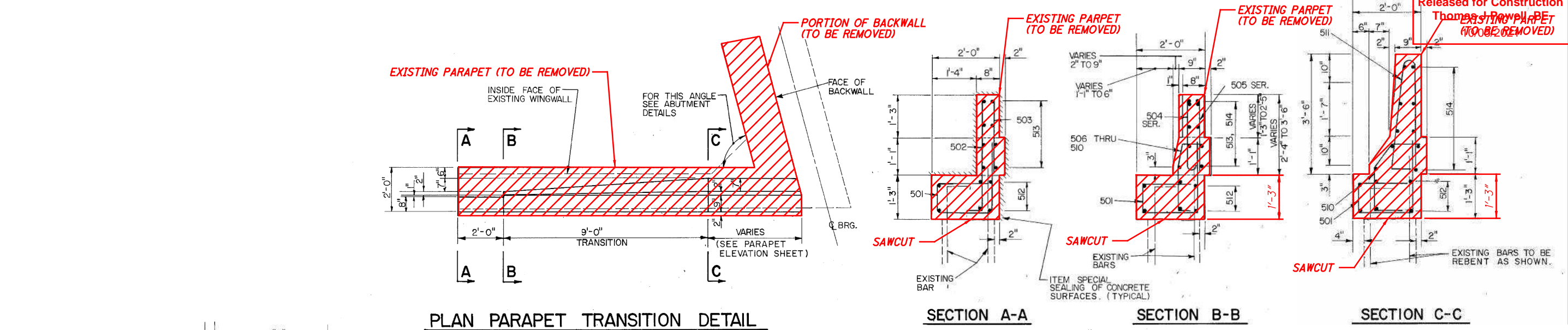


EXISTING STRUCTURE	
TYPE: THREE SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE	
SPANS: 57'-10 1/2"±, 82'-4 1/2"±, 57'-4 1/2"± C/C BEARINGS	
ROADWAY: VARIES	
LOADING: HS 20-44 (CASE 1) AND ALTERNATE MILITARY LOADING	
WEARING SURFACE: 1.2"± MONOLITHIC	
SKEW: VARIES	
APPROACH SLABS: 25'-0"± LONG (AS-1-54)	
ALIGNMENT: 2°00'00"± RIGHT	
SUPERELEVATION: NONE	
COORDINATES: LATITUDE 41°01'45"± N LONGITUDE 81°30'18"± W	

ISSUE RECORD NO.	DATE	DESCRIPTION

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ISSUE RECORD	
NO.	DATE



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

LEGEND:
 - LIMITS OF REMOVAL

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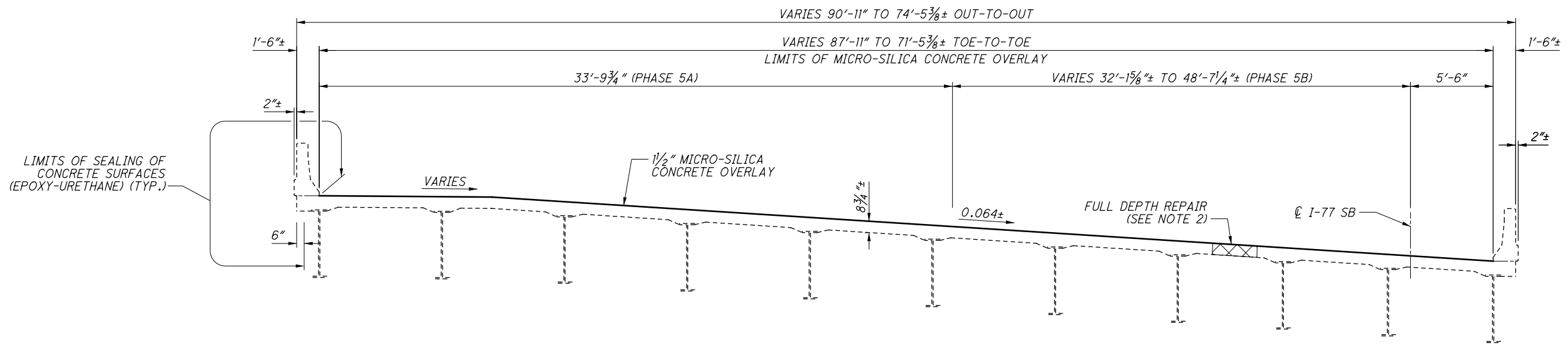
DESIGN AGENCY PRIME 8415 Phillips Place Columbus, Ohio 43231	
DATE 6/18/21	REVIEWED SAN
FILE NUMBER 7702701	STRUCTURE FILE NUMBER 7702701
DRAWN KDC	DESIGNED KDC
REVISOR JAT	CHECKED JAT

WINGWALL AND BRIDGE DECK REMOVAL DETAILS	
BRIDGE NO. SUM-77-0975L	I-77 SB OVER WATERLOO ROAD

SUM-76/77/8- 8.24/9.74/0.00
PID No. 102329
2/8
42/65

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ISSUE RECORD NO.	DATE	DESCRIPTION



TRANSVERSE SECTION

LEGEND:

- LIMITS OF FULL DEPTH REPAIR

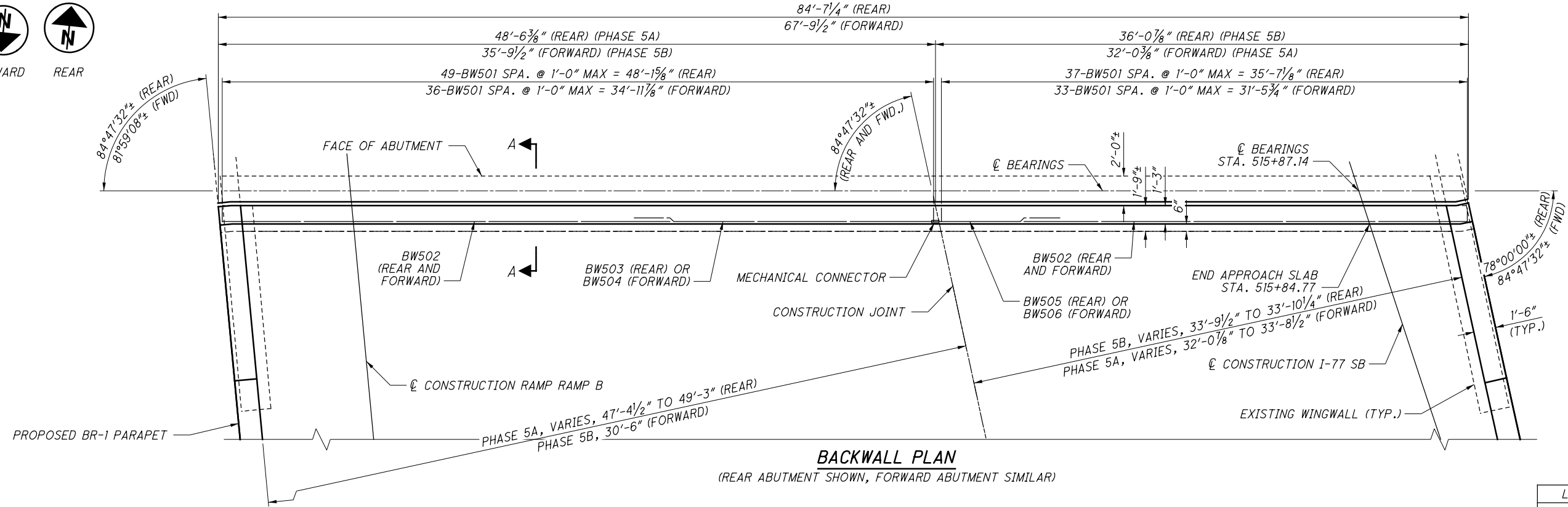
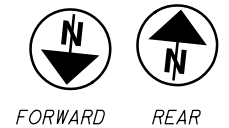
NOTES:

- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
- PROVIDE NEW MICRO-SILICA CONCRETE OVERLAY MATCHING THE CURRENT EXISTING DECK ELEVATION.

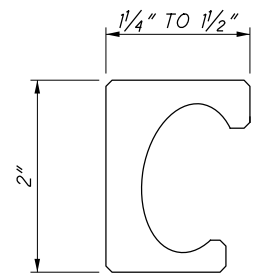
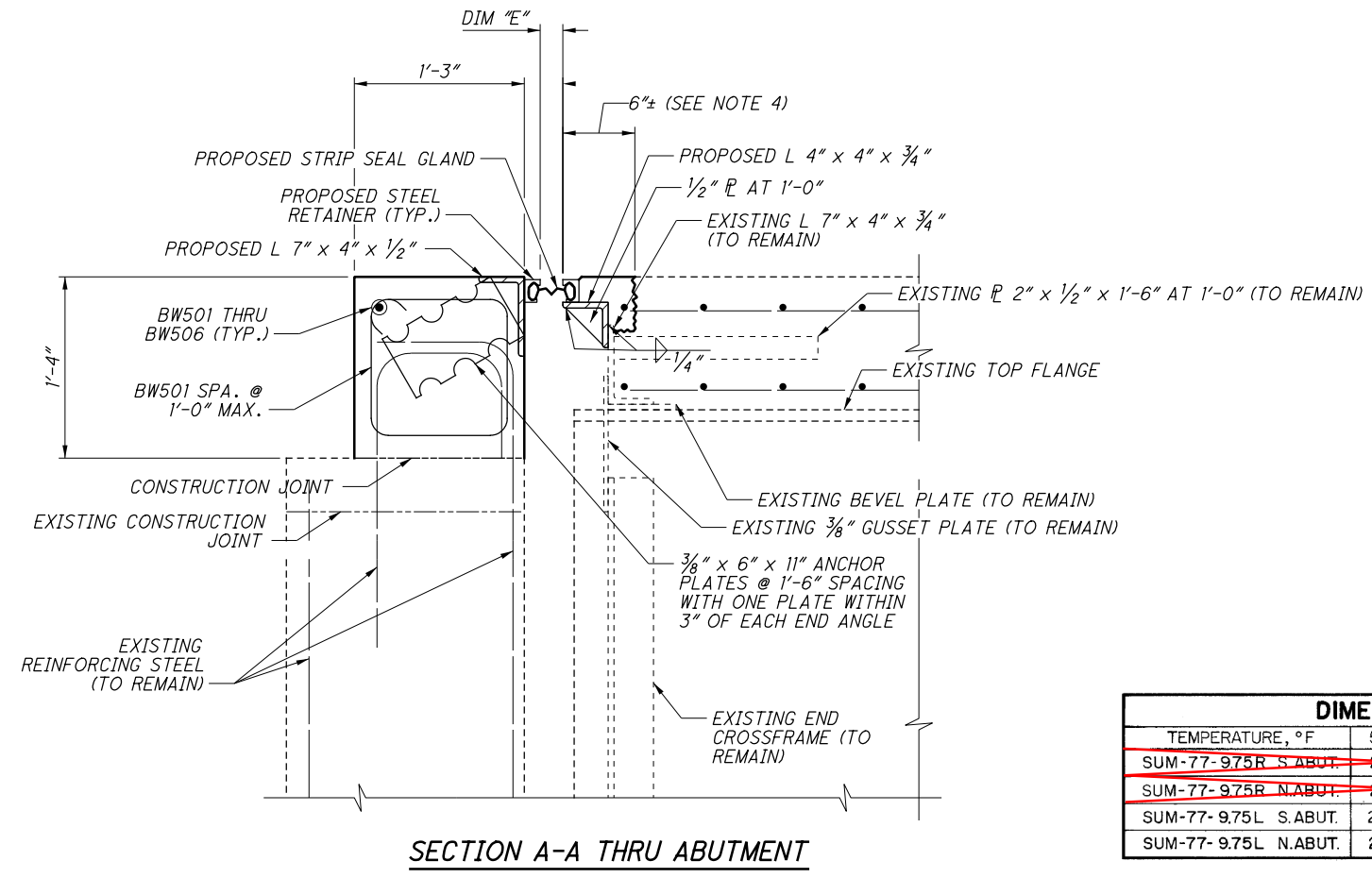
TRANSVERSE SECTION BRIDGE NO. SUM-77-0975L I-77 SB OVER WATERLOO ROAD	SUM-76/77/8- 8.24/9.74/0.00 PID No. 102329	3 / 8 43 65	DESIGN AGENCY PRIME 8415 Athens Road Columbus Ohio 43231
DESIGNED KDC	DRAWN KDC	REVIEWED SAN	DATE 6/18/21
CHECKED JAT	REVISED	STRUCTURE FILE NUMBER 7702701	

2021-09-22_BU 15 - RFC PLANS

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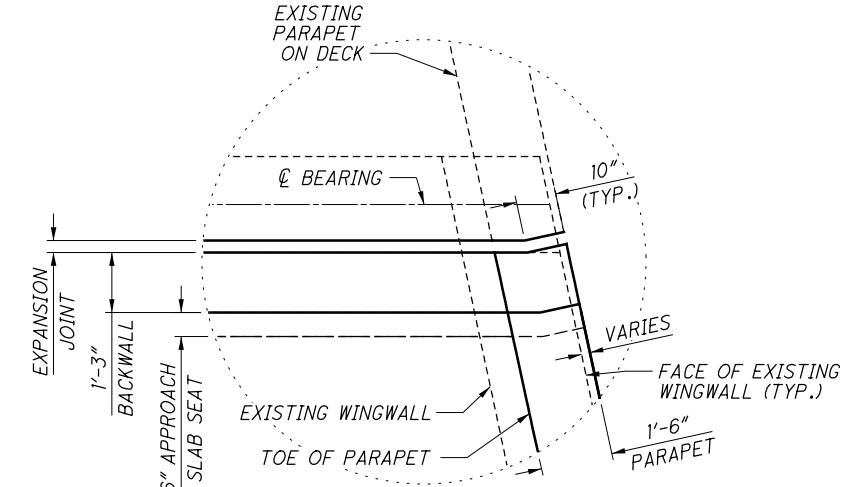


LOCATION	DIM "A"
LEFT REAR	2'-0 1/8"
RIGHT REAR	2'-0 1/2"
LEFT FORWARD	2'-0 1/4"
RIGHT FORWARD	2'-0 3/8"



RETAINER DETAIL

DIMENSION E					
TEMPERATURE, °F	50°	60°	70°	80°	90°
SUM-77-975R S.ABUT.	2 1/16"	2"	1 5/16"	1 5/16"	1 7/8"
SUM-77-975R N.ABUT.	2 1/8"	2"	1 7/8"	1 3/4"	1 1/16"
SUM-77-975L S.ABUT.	2 1/16"	2"	1 5/16"	1 5/16"	1 7/8"
SUM-77-975L N.ABUT.	2 1/8"	2"	1 7/8"	1 3/16"	1 1/16"

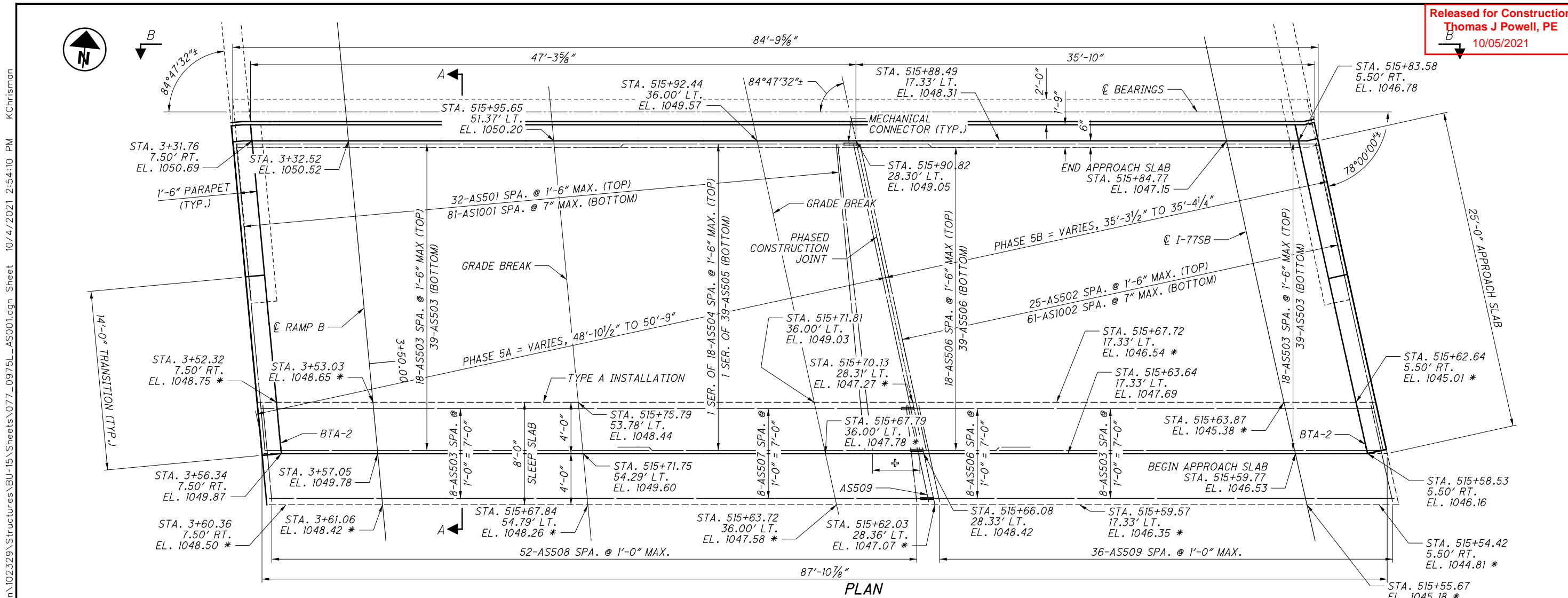


CORNER DETAIL

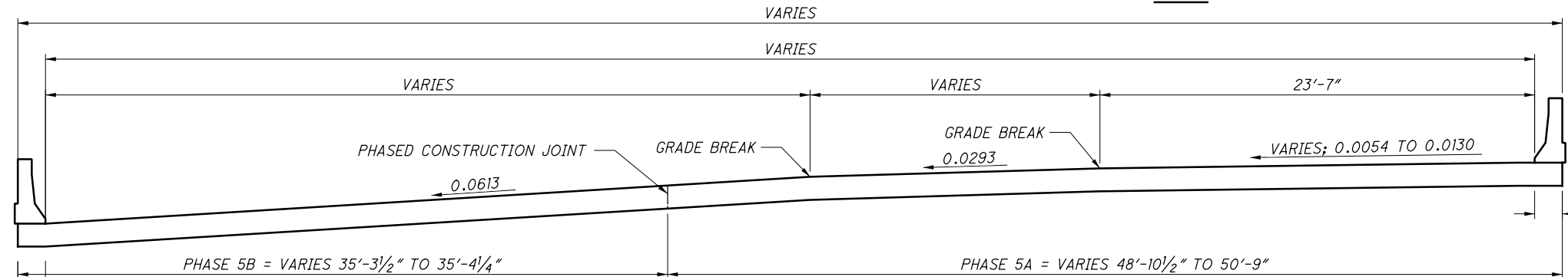
(RIGHT CORNER OF REAR ABUTMENT SHOWN, OTHER SIMILAR)

NOTES:

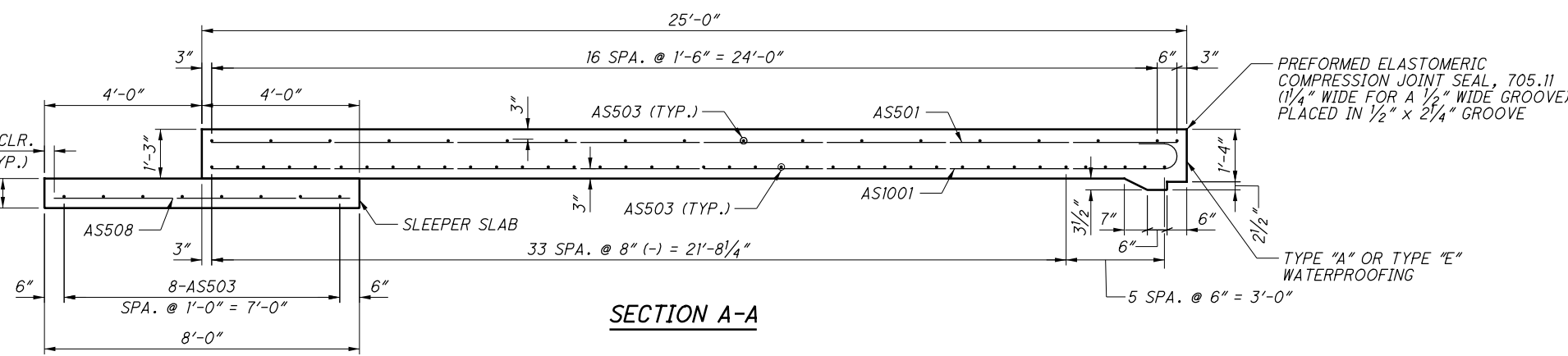
- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWG. EXJ-4-87.
- FOR PARAPET DETAILS, SEE SHEET 7/8.
- FOR REINFORCING LIST, SEE SHEET 8/8.
- CHIP AWAY PORTION OF EXISTING BRIDGE DECK TO REMOVE AND REPLACE JOINT ANGLE AND EXTRUSION.



PLAN



VIEW B-B
 (ALONG FACE OF BACKWALL)



SECTION A-A

LEGEND:

- ⊕ - 3-AS502 SPA. @ 1'-6" MAX. (TOP) (FAN TO FIT)
 8-AS1002 SPA. @ 7" MAX (BOTTOM) (FAN TO FIT)
- * - ELEVATION SHOWN IS TO TOP OF SLEEPER SLAB

MINIMUM LAP LENGTHS:

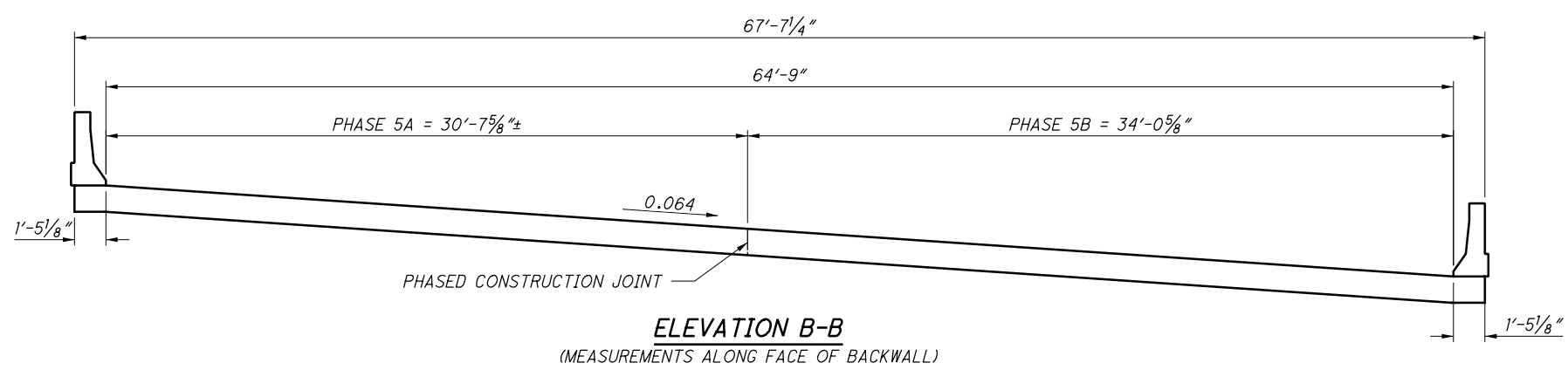
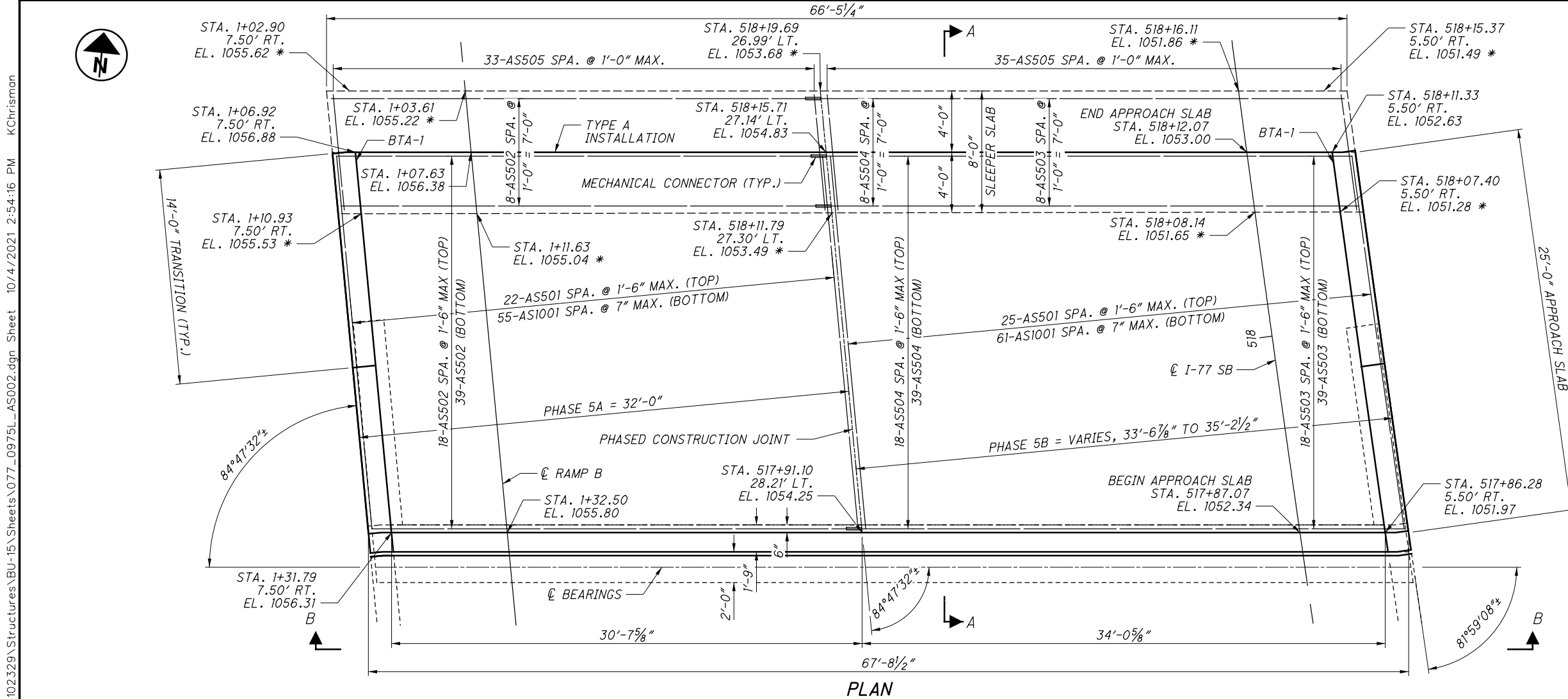
#5 BAR = 3'-1"

NOTES:

1. FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWGS AS-1-15 AND AS-2-15.
2. FOR PARAPET DETAILS, SEE SHEET 7/8.
3. FOR REINFORCING LIST, SEE SHEET 8/8.

ISSUE RECORD NO.	DATE	DESCRIPTION

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LEGEND:
 * - ELEVATION SHOWN IS TO TOP OF SLEEPER SLAB

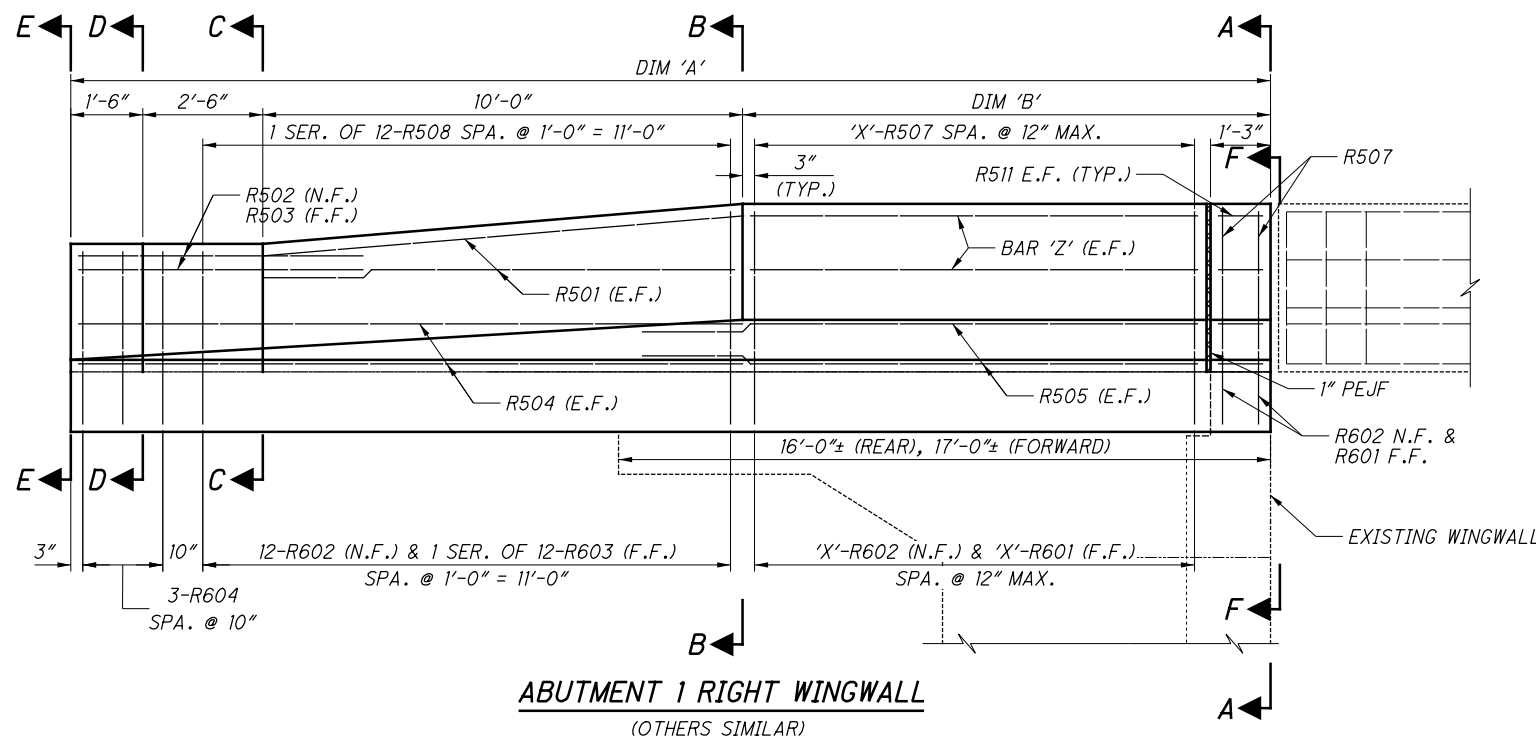
MINIMUM LAP LENGTHS:
 #5 BAR = 3'-1"

- NOTES:**
- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWGS. AS-1-15 AND AS-2-15.
 - FOR PARAPET DETAILS, SEE SHEET [7/8].
 - FOR REINFORCING LIST, SEE SHEET [8/8].

ISSUE RECORD NO.	DATE	DESCRIPTION

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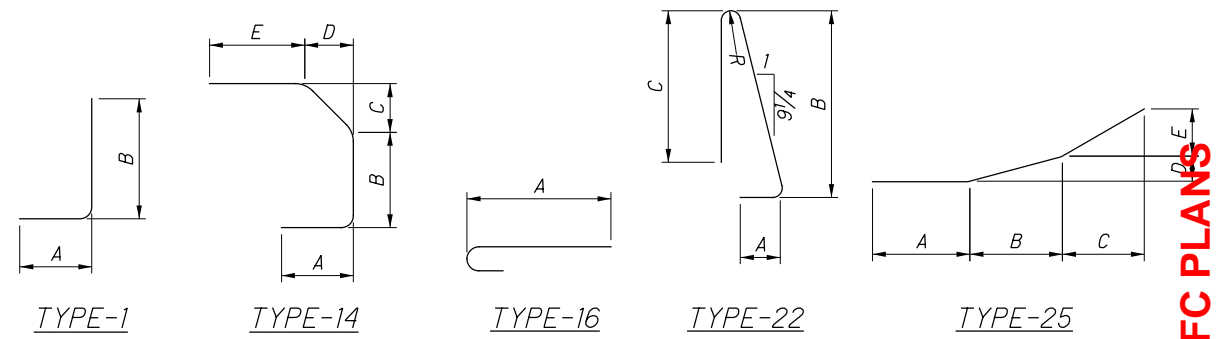
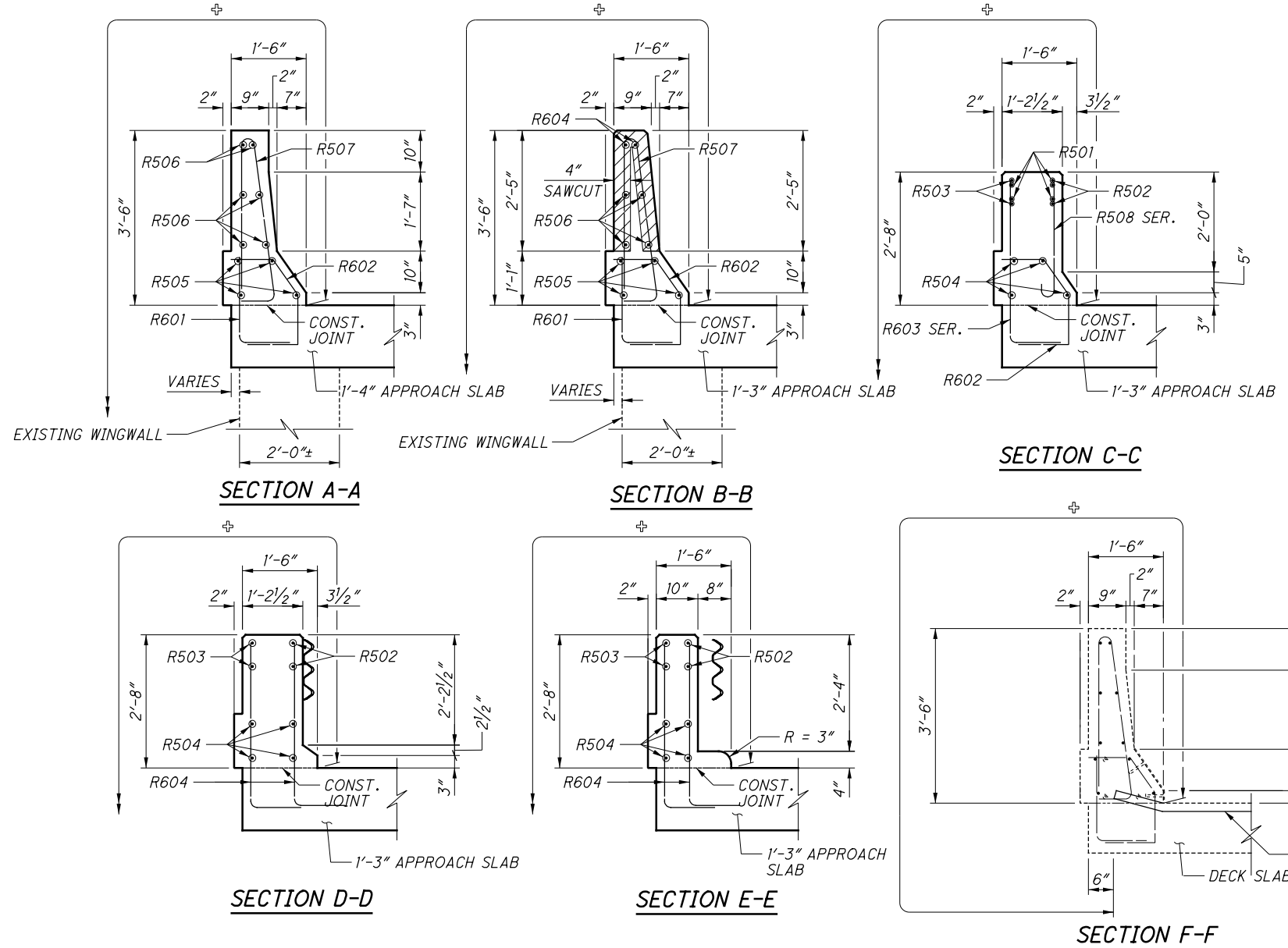
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ABUTMENT 1 RIGHT WINGWALL
 (OTHERS SIMILAR)

LOCATION	DIM 'A'	DIM 'B'	'X' SETS	BAR 'Z'
LEFT REAR	24'-6 1/4"	10'-6 1/4"	10	R506
RIGHT REAR	25'-0"	11'-0"	10	R509
LEFT FWD.	24'-10 1/2"	10'-10 1/2"	10	R510
RIGHT FWD.	25'-0"	11'-0"	10	R509

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
APPROACH SLAB PARAPET											
R501	16	10'-0"	167	STR							
R502	8	5'-8"	47	25	1'-10"	2'-5"	1'-4"	1 1/2"	5"		
R503	8	5'-8"	47	STR							
R504	16	13'-10"	231	STR							
R505	16	11'-6"	192	STR							
R506	4	8'-10"	37	STR							
R507	48	6'-11"	346	22	8"	3'-0"	3'-3"			2"	
	4 SR	3'-0"			2'-4 1/2"						
R508	OF	TO	171	16	TO						3/4"
	12	3'-10"			3'-3"						
R509	8	9'-4"	78	STR							
R510	4	9'-2"	38	STR							
R511	32	11"	31	STR							
SUB-TOTAL			2,441								



LEGEND:
 ⊕ - LIMITS OF SEALING (EPOXY-URETHANE). SEAL ENTIRE SURFACE DOWN TO THE PROPOSED GROUND LINE

- NOTES:**
- FOR ADDITIONAL NOTES AND DETAILS, SEE STD. DWG. BR-1-13.
 - CLEAR DISTANCE FROM THE EDGE OF CONCRETE TO THE FACE OF REINFORCING STEEL SHALL BE 2" UNLESS NOTED OTHERWISE.
 - FOR REINFORCING STEEL NOTES, SEE SHEET [8/8].

DESIGN AGENCY: **PRIME** 8415 Blue Plains Circle, Suite 300, Columbus, Ohio 43231
 DATE: 6/18/21
 REVIEWED: SAN
 DRAWN: JAT
 CHECKED: JAT
 STRUCTURE FILE NUMBER: 7702701
APPROACH PARAPET DETAILS
 BRIDGE NO. SUM-77-0975L
 I-77 SB OVER WATERLOO RD
 SUM-76/77/8-8.24/9.74/0.00
 PID No. 102329
 7/8
 47
 65

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ISSUE RECORD NO.	DATE	DESCRIPTION

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS							
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC	
REAR APPROACH SLAB														
AS501	32		32	24'-0"	801	STR								
AS502	3	25	28	24'-5"	713	STR								
AS503	65	65	130	30'-0"	4068	STR								
	1 SR		1 SR	21'-7"										
*AS504	OF		OF	TO	433	STR								2"
	18		18	24'-7"										
	1 SR		1 SR	21'-7"										
*AS505	OF		OF	TO	942	STR								1"
	39		39	24'-9"										
AS506		65	65	8'-10"	599	STR								
AS507	8		8	24'-2"	202	STR								
AS508	52		52	7'-6"	407	STR								
AS509	1	36	37	7'-8"	296	STR								
AS1001	81		81	25'-5"	8859	16	24'-0"							
AS1002	8	61	69	25'-10"	7670	16	24'-5"							
SUB-TOTAL					24,990									

* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS							
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC	
FORWARD APPROACH SLAB														
AS501	22	25	47	24'-5"	1197	STR								
*AS502	65		65	31'-11"	2164	STR								
AS503		65	65	30'-0"	2034	STR								
AS504		65	65	8'-5"	571	STR								
AS505	33	35	68	7'-6"	532	STR								
AS1001	55	61	116	25'-9"	12853	16	24'-4"							
SUB-TOTAL					19,351									

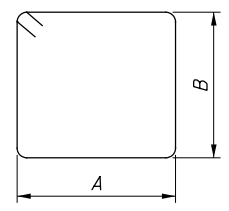
* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS							
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC	
REAR ABUTMENT BACKWALL														
BW501	49	37	86	4'-6"	404	3	11"	1'-0"						
BW502	1	1	2	30'-0"	63	STR								
*BW503	1		1	20'-6"	21	STR								
BW504	NOT USED													
BW505		1	1	8'-3"	9	STR								
BW506	NOT USED													
SUB-TOTAL					497									

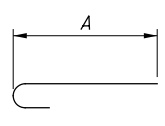
* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS							
	PHASE 5A	PHASE 5B	TOTAL				A	B	C	D	E	R	INC	
FORWARD ABUTMENT BACKWALL														
BW501	33	36	69	4'-6"	324	3	11"	1'-0"						
BW502	1	1	2	30'-0"	63	STR								
BW503	NOT USED													
*BW504	1		1	4'-2"	4	STR								
BW505	NOT USED													
BW506		1	1	7'-9"	8	STR								
SUB-TOTAL					399									

* - INDICATES MECHANICAL CONNECTOR SHALL BE ATTACHED



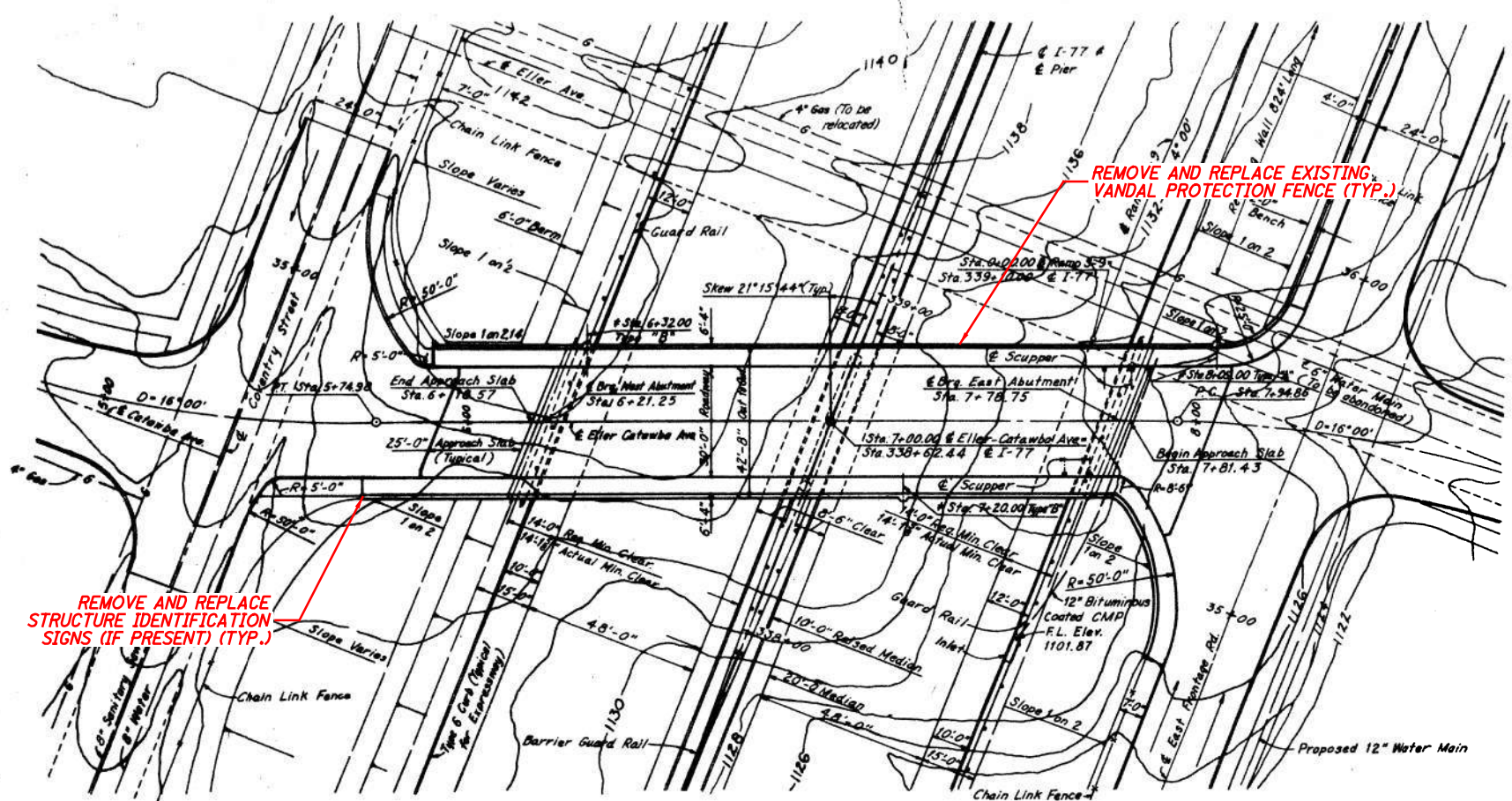
TYPE-3



TYPE-16

NOTES:

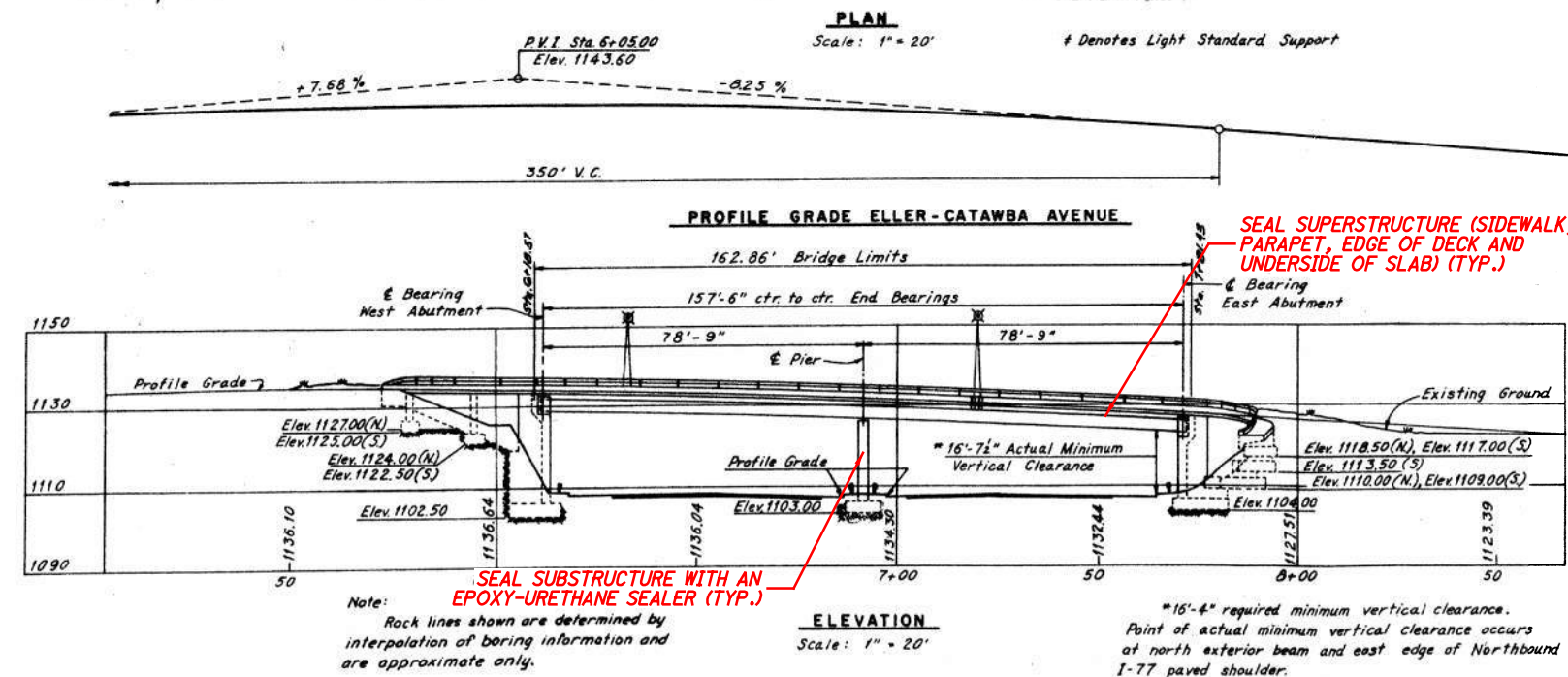
- ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- BAR SIZE: THE BAR SIZE IS INDICATED IN THE BAR MARK. THE MARK BEGINS WITH TWO OR THREE LETTERS OR NUMBERS THAT IDENTIFY THE BAR LOCATION. THE NEXT ONE OR TWO DIGITS INDICATE THE BAR SIZE, AND THE REMAINING TWO DIGITS ARE THE SEQUENCE NUMBER.
 EXAMPLE: SA1001
 SA = SUPERSTRUCTURE BAR
 10 = #10 BAR
 01 = BAR SEQUENCE NUMBER 1
- BAR DIMENSIONS SHOWN ARE OUT-TO-OUT UNLESS OTHERWISE INDICATED.
- STR. IN THE BAR TYPE COLUMN INDICATES A STRAIGHT BAR.
- RAD INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
- INCR. INDICATES THE LENGTH INCREMENT FOR SERIES BARS.
- STD. WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF A BAR.
- FIELD BEND BARS AS NECESSARY TO MATCH CURVATURE OF ROADWAY.



REMOVE AND REPLACE
 STRUCTURE IDENTIFICATION
 SIGNS (IF PRESENT) (TYP.)

REMOVE AND REPLACE EXISTING
 VANDAL PROTECTION FENCE (TYP.)

ORIGINAL CONSTRUCTION
 PLANS SHOWN FOR
 INFORMATION ONLY



Note:
 Rock lines shown are determined by
 interpolation of boring information and
 are approximate only.

*16'-4" required minimum vertical clearance.
 Point of actual minimum vertical clearance occurs
 at north exterior beam and east edge of Northbound
 I-77 paved shoulder.

NOTES:

1. FOR GENERAL NOTES, SEE SHEET **3/65** THRU **7/65**.
2. FOR TRANSVERSE SECTION, SEE SHEET **9/65**.

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
 SPANS: 78'-9"±, 78'-9"± C/C BEARINGS
 ROADWAY: 30'-0"± F/F OF CURBS WITH TWO 5'-2"± SIDEWALKS
 LOADING: HS 20-44 (CASE II) AND ALTERNATE MILITARY LOADING
 WEARING SURFACE: 1"± MONOLITHIC
 SKEW: 21°15'44"± LEFT FORWARD
 APPROACH SLABS: 25'-0"± LONG (AS-1-54)
 ALIGNMENT: TANGENT
 SUPERELEVATION: NONE
 COORDINATES: LATITUDE 41°02'09"± N
 LONGITUDE 81°30'18"± W

2021-09-22_BU 15 - RFC PLANS

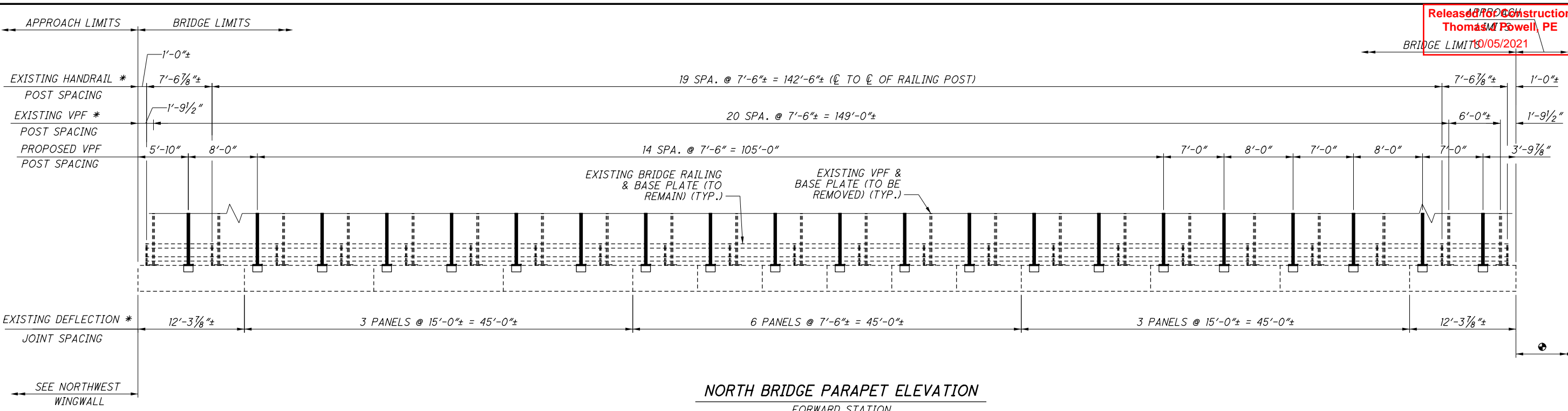
ISSUE RECORD NO.	DATE	DESCRIPTION

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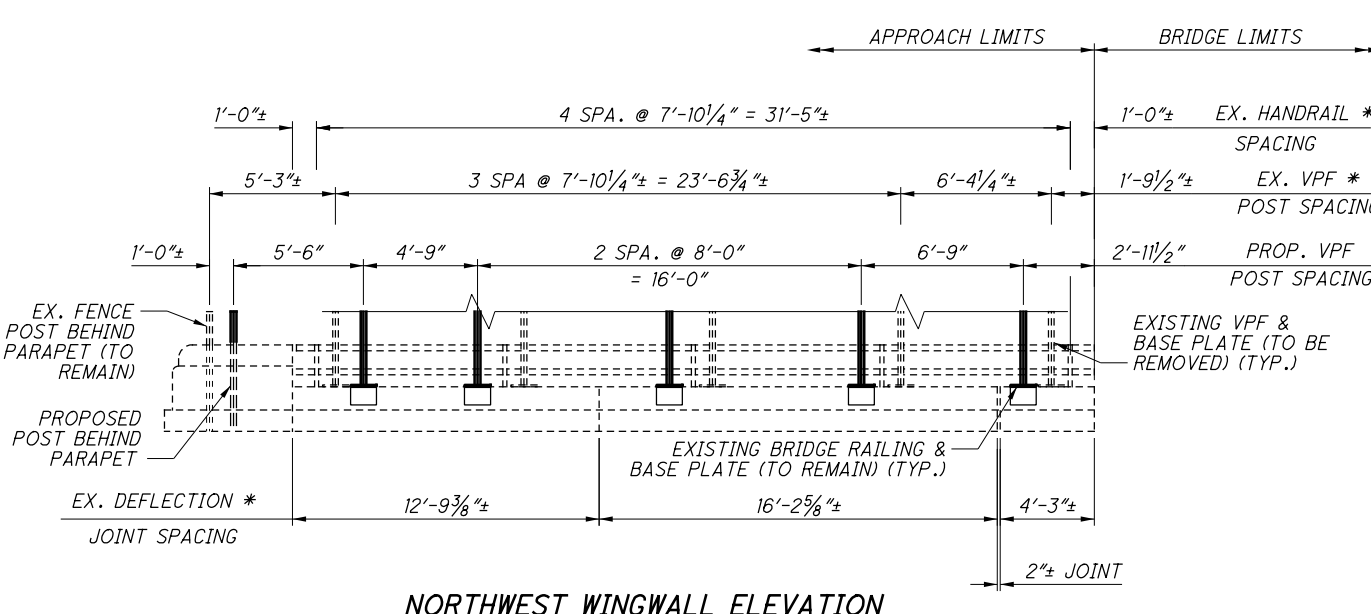
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Released for Construction
 Thomas Powell, PE
 10/05/2021

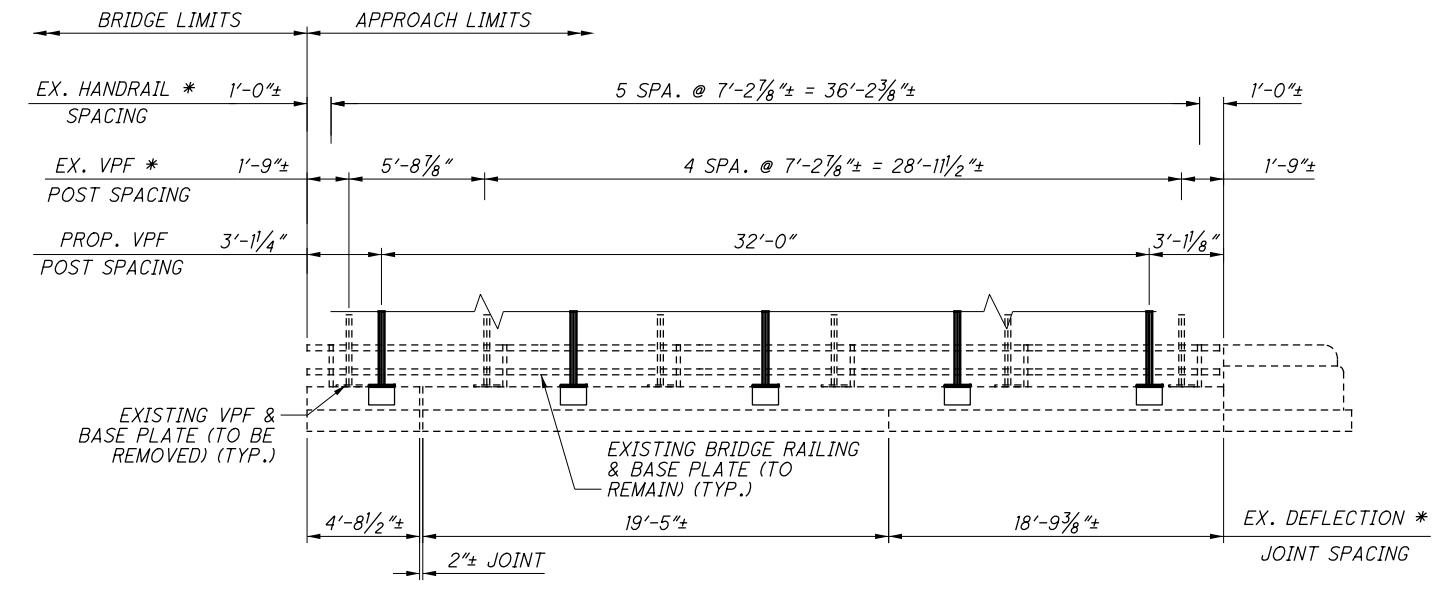
PRIME <small>4415 Atlas Plaza Columbus, Ohio 43231</small>	DESIGN AGENCY DATE 6/18/21	REVIEWED SAN STRUCTURE FILE NUMBER 7702760	DRAWN HM REVISIONS	DESIGNED HM CHECKED KDC
VANDAL PROTECTION FENCE DETAILS (1 OF 2) BRIDGE NO. SUM-77-1022 CATAWBA AVE OVER I-77				
SUM-76/77/8- 8.24/9.74/0.00 PID No. 102329				
2 / 3				



NORTH BRIDGE PARAPET ELEVATION
 FORWARD STATION



NORTHWEST WINGWALL ELEVATION



DEVELOPED NORTHEAST WINGWALL ELEVATION
 (MEASUREMENTS ALONG C PARAPET)

LEGEND:

- * - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM ORIGINAL PLANS.
- - SEE NORTHEAST WINGWALL

NOTES:

1. FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-90.
2. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

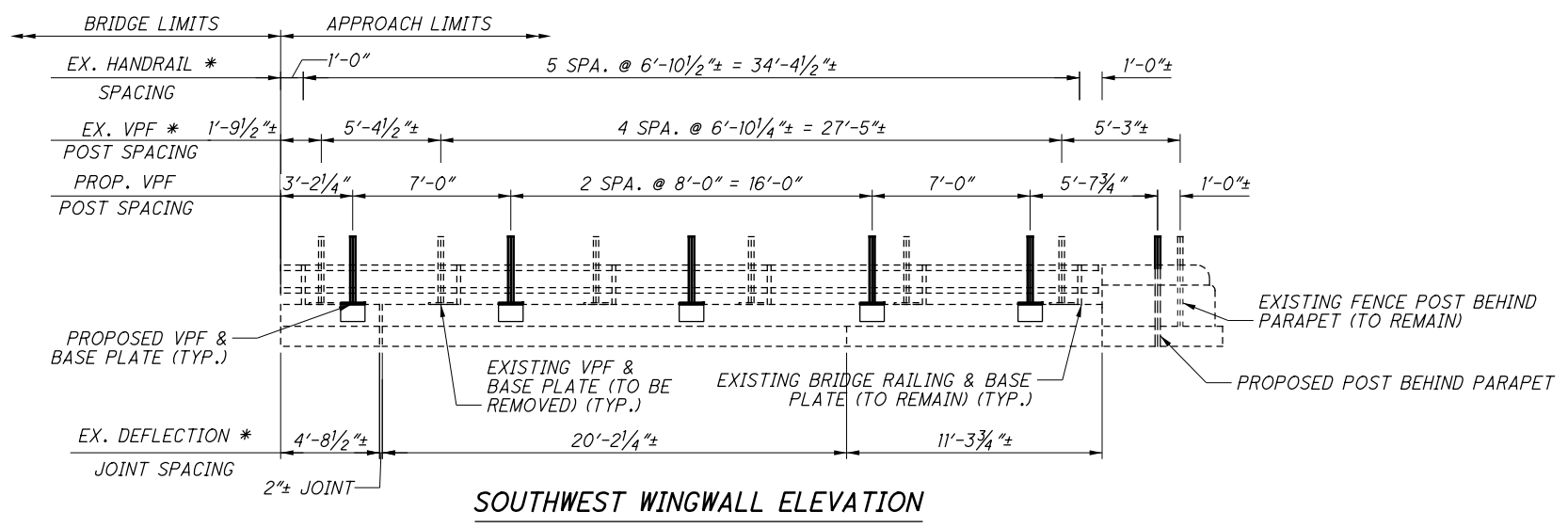
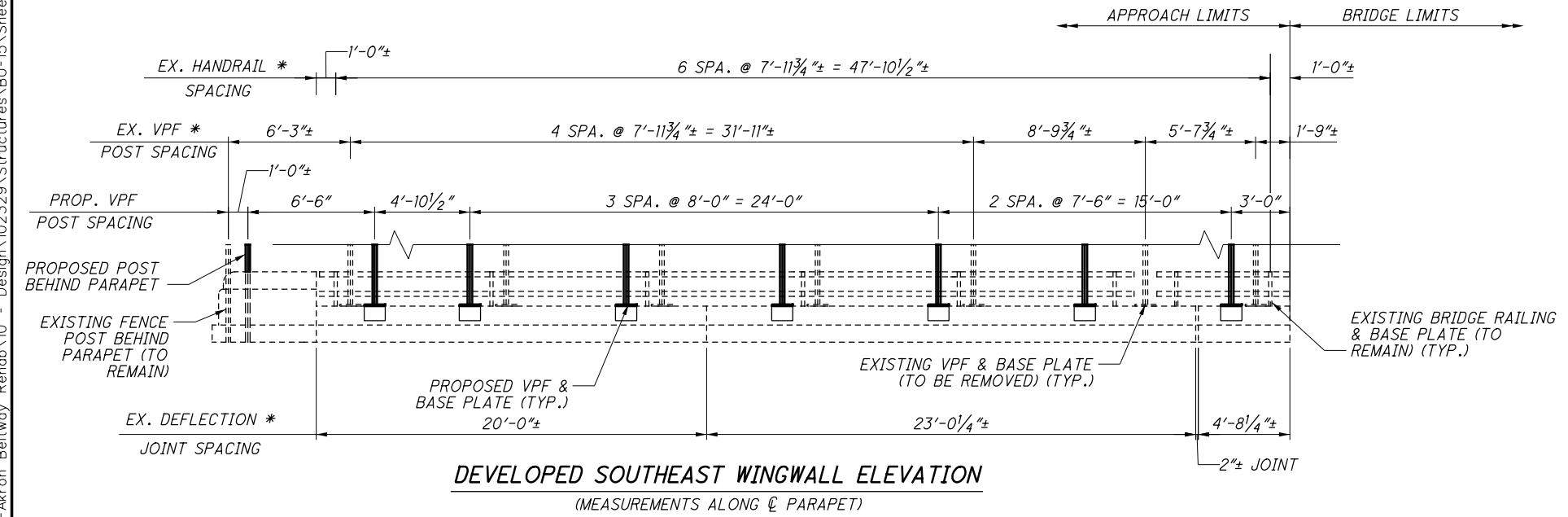
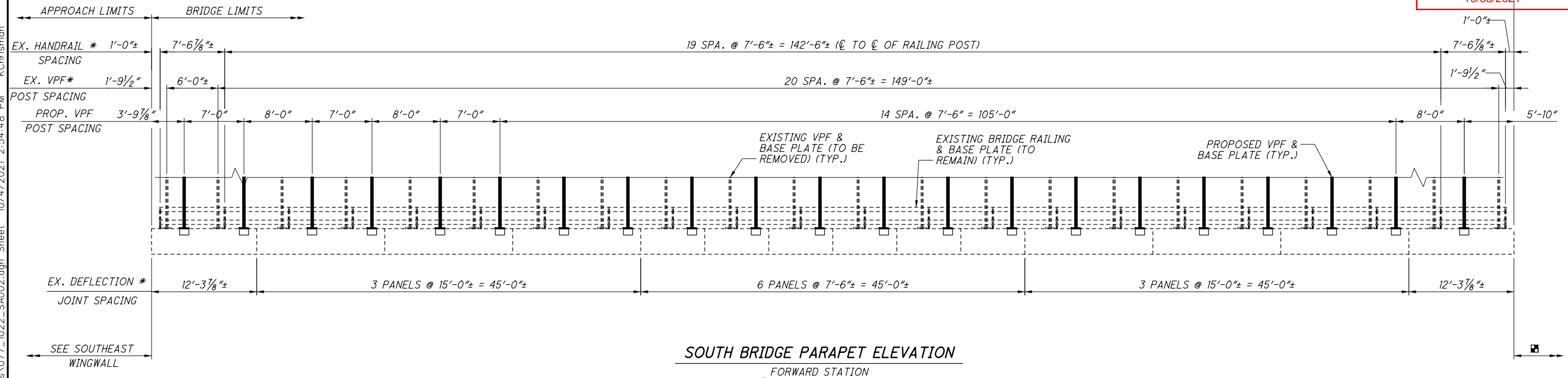
2021-09-22_BU 15 - RFC PLANS

50
 65

Released for Construction
 Thomas J. Powell, PE
 10/05/2021

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ISSUE RECORD	NO.	DATE	DESCRIPTION



LEGEND:

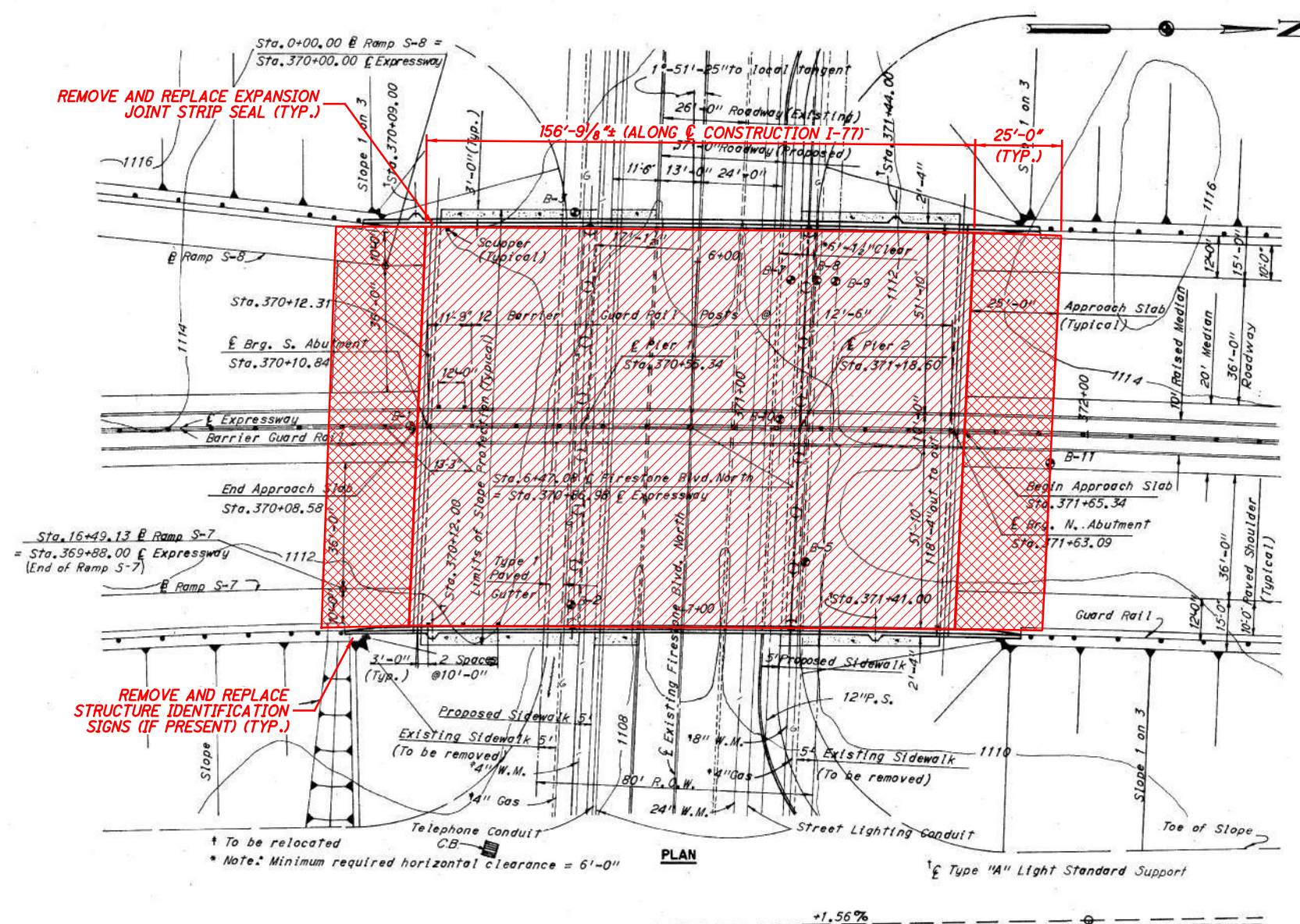
- * - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM ORIGINAL PLANS.
- - SEE SOUTHWEST WINGWALL

NOTES:

1. FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-90.
2. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

DESIGN AGENCY: PRIME CONSULTANTS, INC. 8415 Athens Road, Columbus, Ohio 43231
 DATE: 6/18/21
 REVIEWED: SAN
 DRAWN: HM
 CHECKED: KDC
 STRUCTURE FILE NUMBER: 7702760
VANDAL PROTECTION FENCE DETAILS (2 OF 2)
 BRIDGE NO.: SUM-77-1022
 CATAMBA AVE OVER I-77
 SUM-76/77/8-8.24/9.74/0.00
 PID No. 102329
 3 / 3
 51 / 65

2021-09-22_BU 15 - RFC PLANS



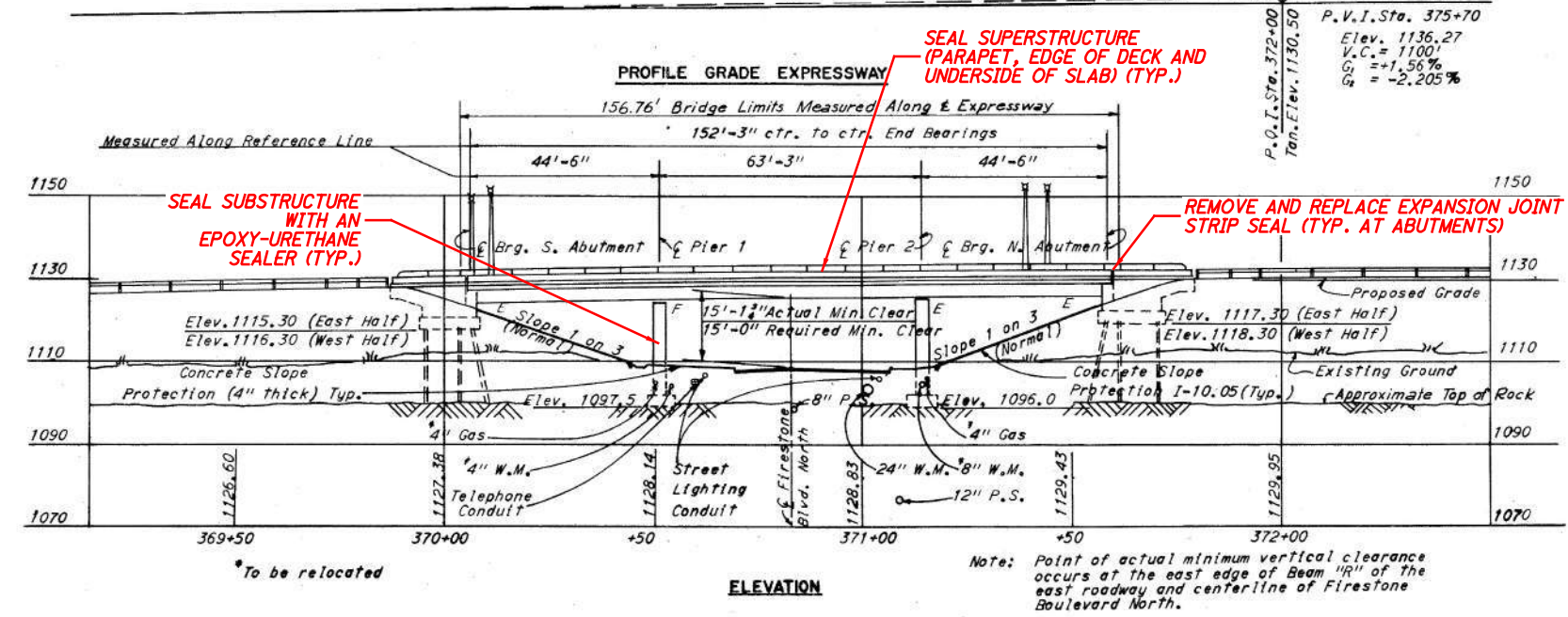
LEGEND:

- LIMITS OF MICRO-SILICA CONCRETE OVERLAY ON BRIDGE DECK
- LIMITS OF MICRO-SILICA CONCRETE OVERLAY ON APPROACH SLAB

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY

NOTES:

1. FOR GENERAL NOTES, SEE SHEET **3/65** THRU **7/65**.
2. FOR TRANSVERSE SECTION, SEE SHEET **2/3**.



EXISTING STRUCTURE

TYPE: THREE SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 44'-6"±, 63'-3"±, 44'-6"± C/C BEARINGS

ROADWAY: 55'-6"± F/F OF PARAPETS (NB)
 55'-6"± F/F OF PARAPETS (SB)

LOADING: HS 20-44 (CASE I) AND ALTERNATE MILITARY LOADING

WEARING SURFACE: 3"± BITUMINOUS

SKEW: 1°51'25"± TO LOCAL TANGENT

APPROACH SLABS: 25'-0"± LONG (AS-1-54)

ALIGNMENT: 1°00'00"±

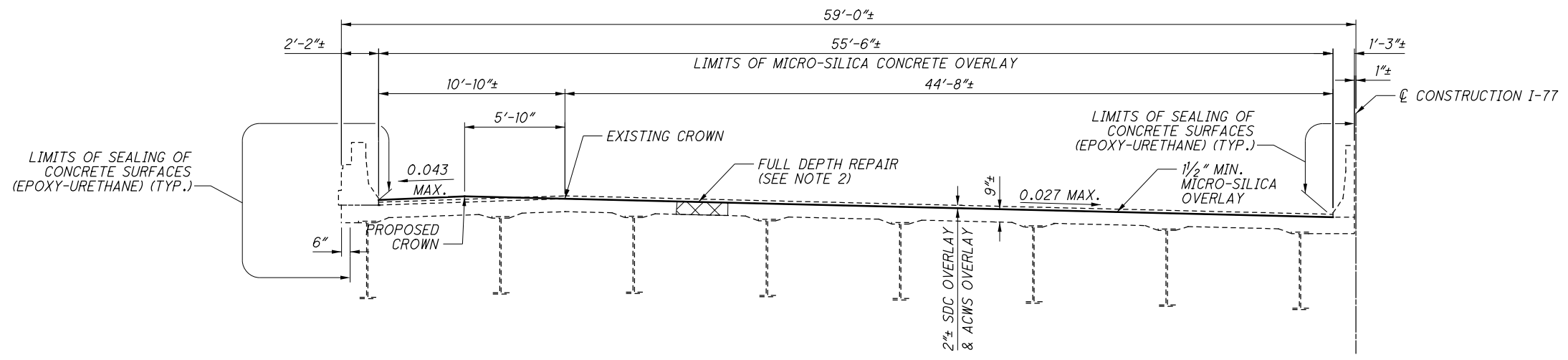
SUPERELEVATION: NONE

COORDINATES: LATITUDE 41°02'40"± N
 LONGITUDE 81°30'20"± W

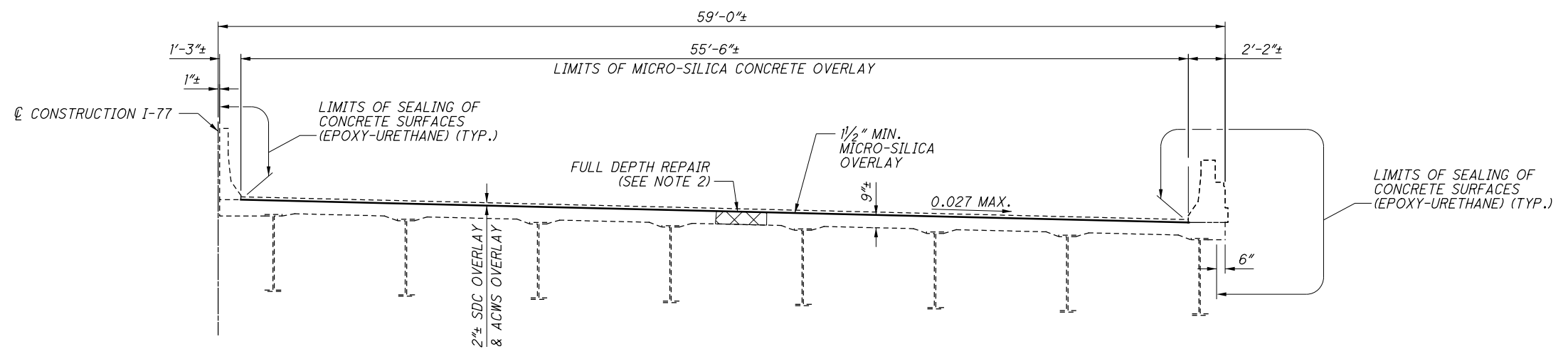
ISSUE RECORD NO.	DATE	DESCRIPTION

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2021-09-22_BU15 - RFC PLANS



SOUTHBOUND TRANSVERSE SECTION
 LIMITS OF MICRO-SILICA CONCRETE OVERLAY FROM 370+08.58± TO 371+65.34±



NORTHBOUND TRANSVERSE SECTION
 LIMITS OF MICRO-SILICA CONCRETE OVERLAY FROM 370+08.58± TO 371+65.34±

LEGEND:

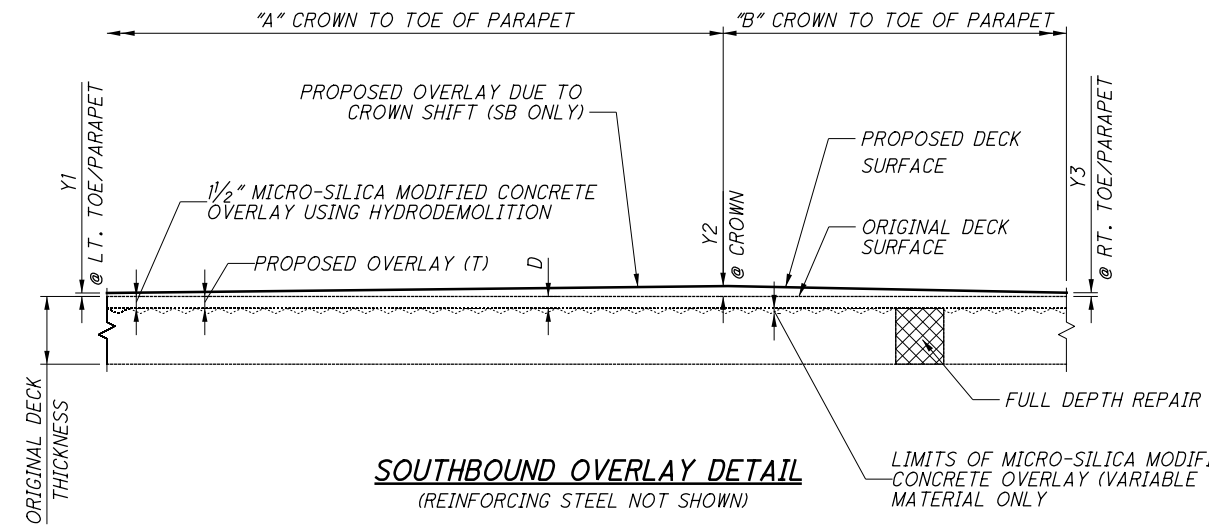
- LIMITS OF FULL DEPTH REPAIR

NOTES:

- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
- REMOVE EXISTING ASPHALT CONCRETE WEARING SURFACE (ACWS) & EXISTING CONCRETE OVERLAY. NEW OVERLAY TO MATCH EXISTING DECK CONCRETE OVERLAY ELEVATION, EXCEPT IN THE AREA OF CROWN ADJUSTMENT ON THE SOUTHBOUND DECK.

DECK OVERLAY TABLE						
LOCATION	OVERLAY THICKNESS			WIDTH		REMOVAL DEPTH
	Y1	Y2	Y3	A	B	D
SUM-77-1082 (NB)	0"±	0"±	0"±	-	-	1 1/2"
SUM-77-1082 (SB)	3 1/2"±	4"±	0"±	5'-0"±	50'-6"±	1 1/2"

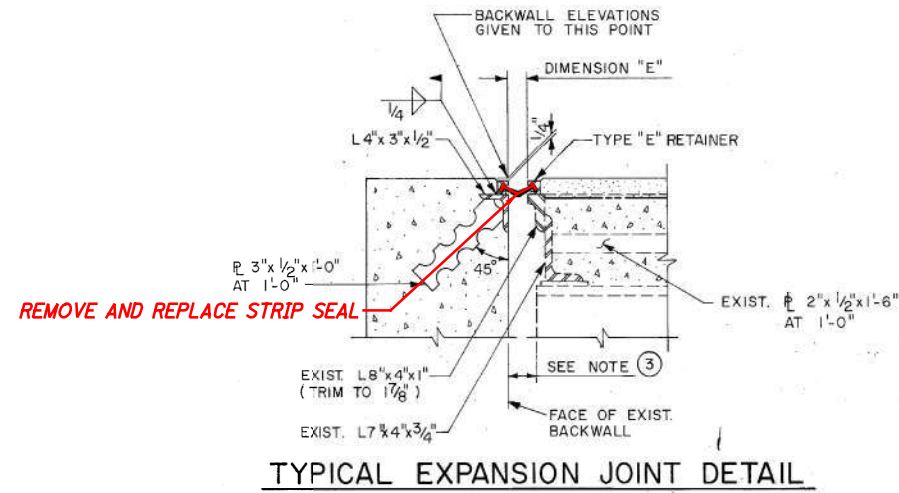
DIMENSIONS Y1, Y2 & Y3 ARE MEASURED FROM THE TOP OF THE UNIFORM OVERLAY FROM HYDRODEMOLITION TO THE PROPOSED DECK SURFACE REQUIRED TO SHIFT CROWN.



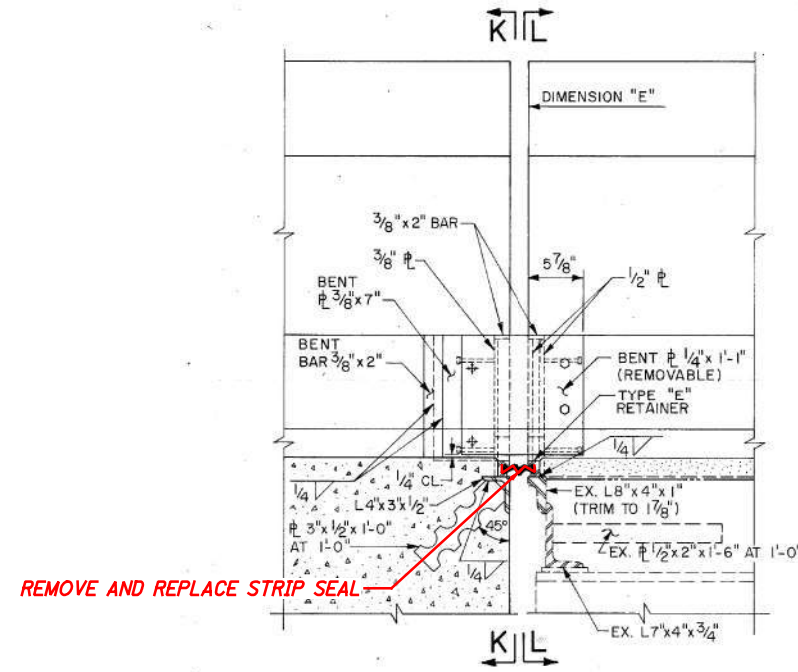
SOUTHBOUND OVERLAY DETAIL
 (REINFORCING STEEL NOT SHOWN)
 LIMITS OF MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY

ISSUE RECORD NO.	DATE	DESCRIPTION

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TYPICAL EXPANSION JOINT DETAIL



PARAPET EXPANSION JOINT ELEVATION

DIMENSION "E"					
SUM - 77 - 10.82 over FIRESTONE BLVD.					
TEMPERATURE °F	50	60	70	80	90
NORTH ABUT.	2 1/16"	2"	1 5/16"	1 27/32"	1 3/4"
SOUTH ABUT.	2 1/32"	2"	1 31/32"	1 5/16"	1 29/32"

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

NOTES:

1. REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.

ISSUE RECORD NO.	DATE	DESCRIPTION

DESIGN AGENCY: **PRIME** 8415 Park Plaza, Columbus, Ohio 43231

EXPANSION JOINT DETAILS

BRIDGE NO. SUM-77-1082
 I-77 OVER FIRESTONE BLVD.

DESIGNED: KDC
 CHECKED: JAT

DRAWN: KDC
 REVISED: JAT

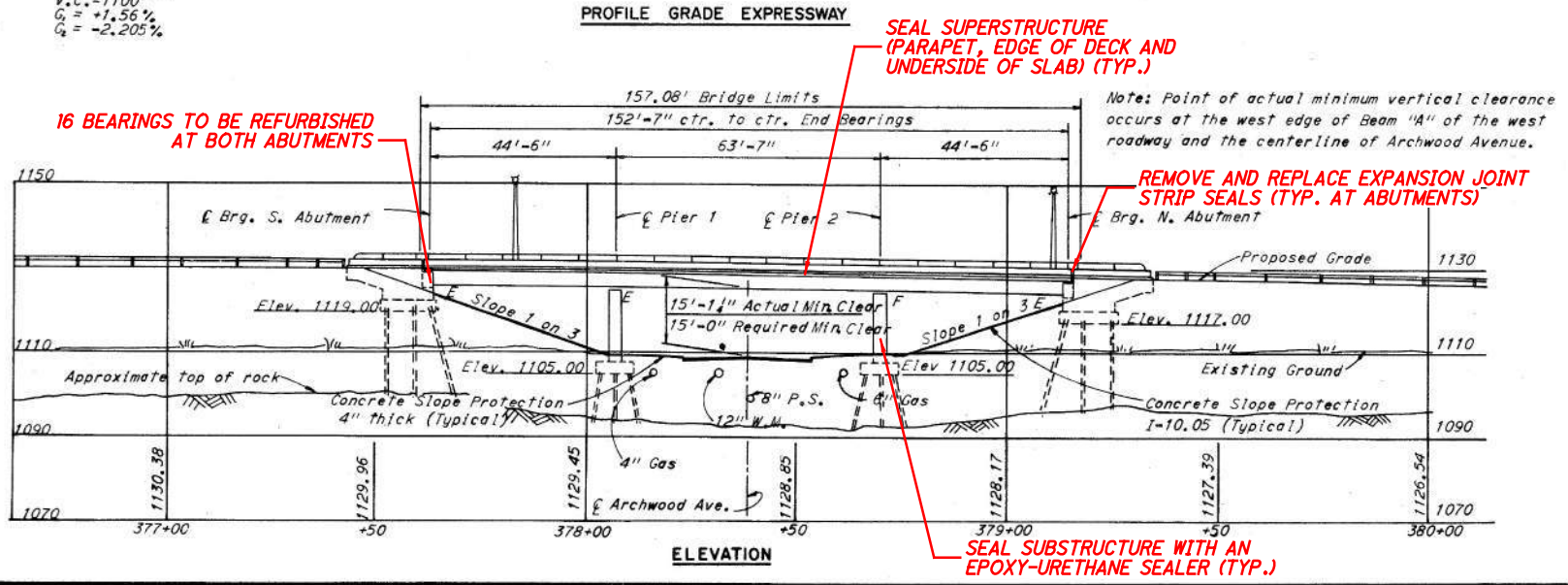
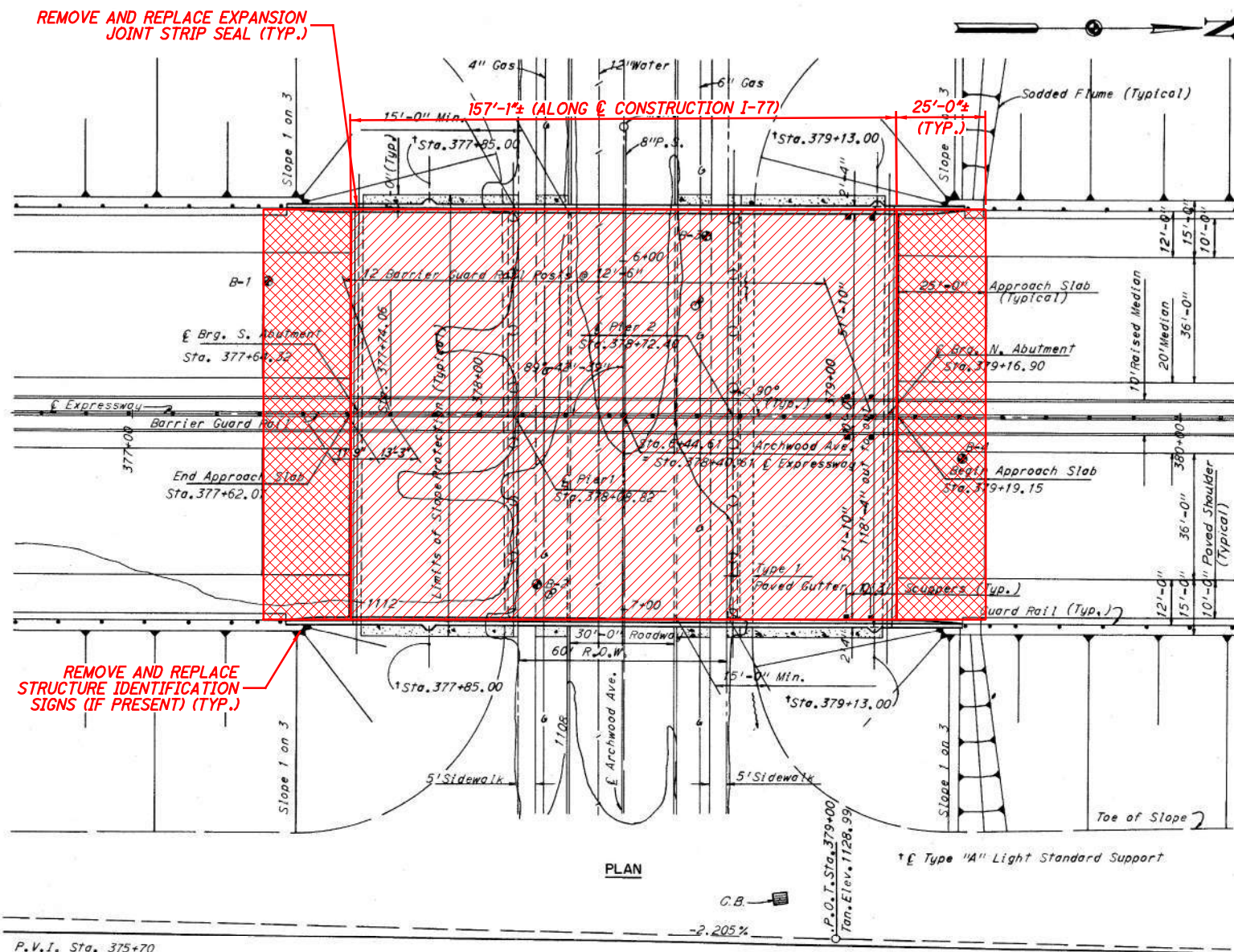
REVIEWED: SAN
 DATE: 6/18/21
 STRUCTURE FILE NUMBER: 7702795

SUM-76/77/8-
 8.24/9.74/0.00
 PID No. 102329

3 / 3

54
 65

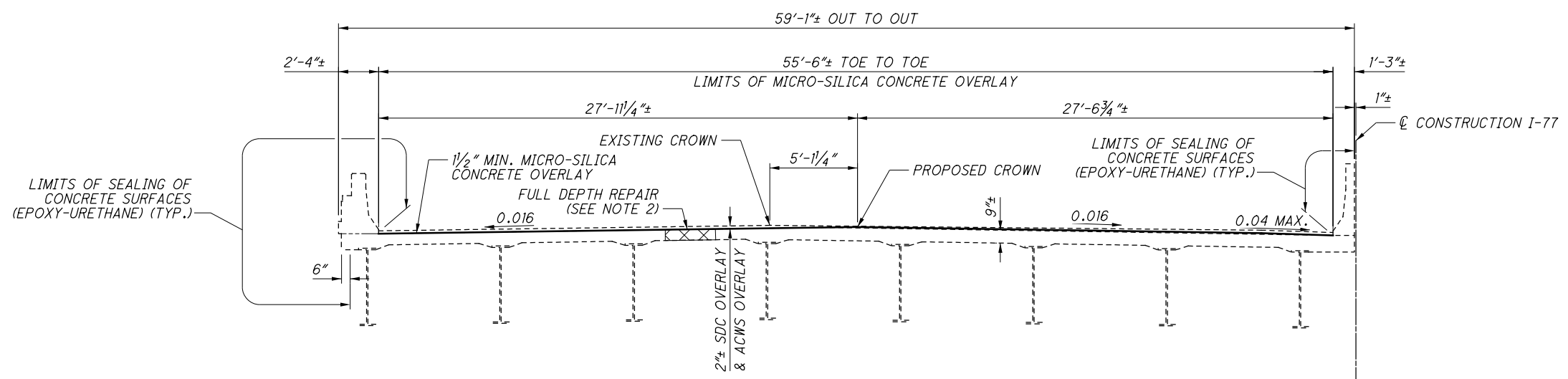
2021-09-22_BU 15 - RFC PLANS



EXISTING STRUCTURE	
TYPE:	THREE SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS:	44'-6"±, 63'-7"±, 44'-6"± C/C BEARINGS
ROADWAY:	55'-0"± F/F OF PARAPETS (NB) 55'-0"± F/F OF PARAPETS (SB)
LOADING:	HS 20-44 (CASE I) AND ALTERNATE MILITARY LOADING
WEARING SURFACE:	3"± BITUMINOUS
SKEW:	NONE
APPROACH SLABS:	25'-0"± LONG (AS-I-54)
ALIGNMENT:	TANGENT
SUPERELEVATION:	NONE
COORDINATES:	LATITUDE 41°02'48"± N LONGITUDE 81°30'20"± W

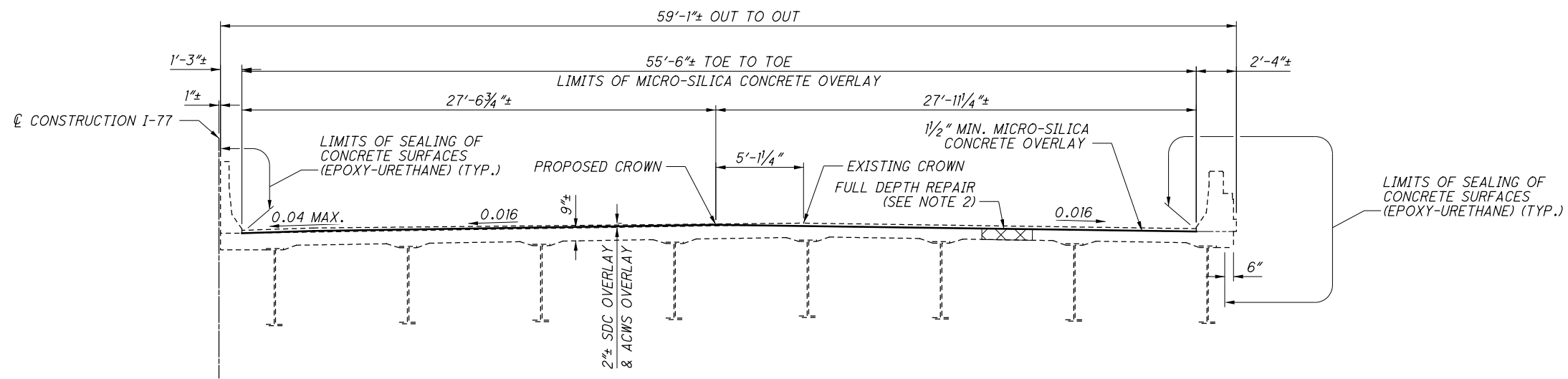
ISSUE RECORD NO.	DATE	DESCRIPTION

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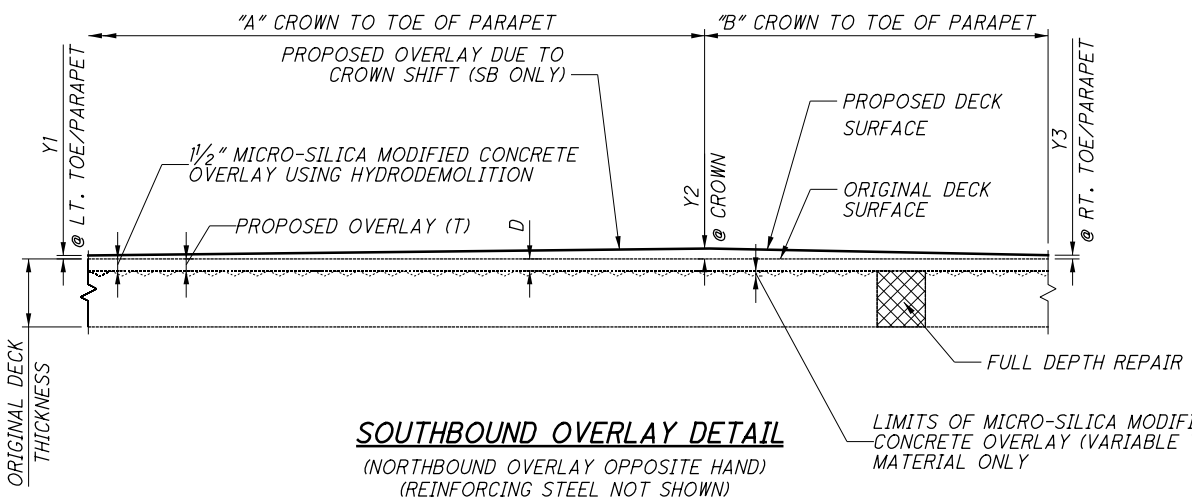
SOUTHBOUND TRANSVERSE SECTION

LIMITS OF MICRO-SILICA CONCRETE OVERLAY FROM 377+62.07± TO 379+19.15±



NORTHBOUND TRANSVERSE SECTION

LIMITS OF MICRO-SILICA CONCRETE OVERLAY FROM 377+62.07± TO 379+19.15±



SOUTHBOUND OVERLAY DETAIL

(NORTHBOUND OVERLAY OPPOSITE HAND)
 (REINFORCING STEEL NOT SHOWN)

LOCATION	OVERLAY THICKNESS			WIDTH		REMOVAL DEPTH
	Y1	Y2	Y3	A	B	D
SUM-77-1096 (NB)	0"±	7/8"±	0"±	27'-11 1/4"±	27'-6 3/4"±	1 1/2"
SUM-77-1096 (SB)	0"±	7/8"±	0"±	27'-6 3/4"±	27'-11 1/4"±	1 1/2"

DIMENSIONS Y1, Y2 & Y3 ARE MEASURED FROM THE TOP OF THE UNIFORM OVERLAY FROM HYDRODEMOLITION TO THE PROPOSED DECK SURFACE REQUIRED TO SHIFT CROWN.

LEGEND:

- LIMITS OF FULL DEPTH REPAIR

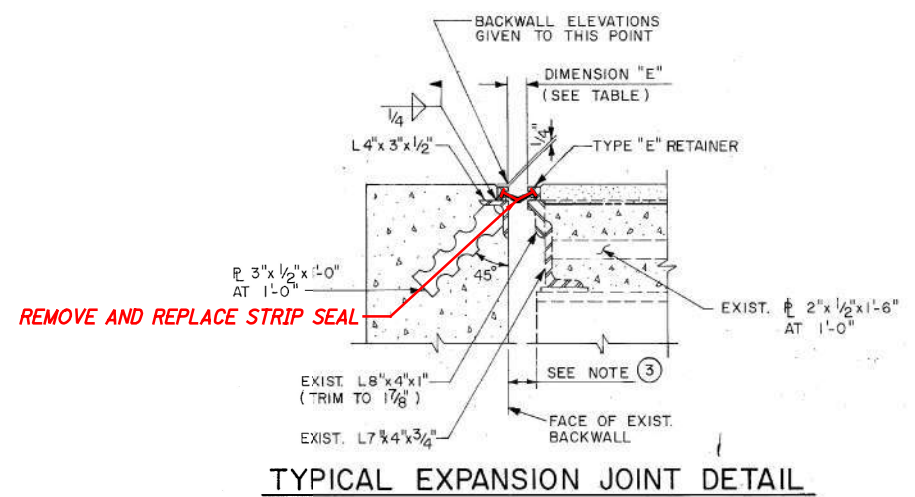
NOTES:

- FOR GENERAL NOTES, SEE SHEETS 3/65 THRU 7/65.
- PERFORM FULL DEPTH REPAIR OF THE DECK AT THE AREAS DESIGNATED BY THE ENGINEER. FOR ADDITIONAL NOTES, SEE SHEET 7/65.
- REMOVE EXISTING ASPHALT CONCRETE WEARING SURFACE (ACWS) & EXISTING CONCRETE OVERLAY. NEW OVERLAY TO MATCH EXISTING DECK CONCRETE OVERLAY ELEVATION, EXCEPT IN THE AREA OF THE CROWN ADJUSTMENT.

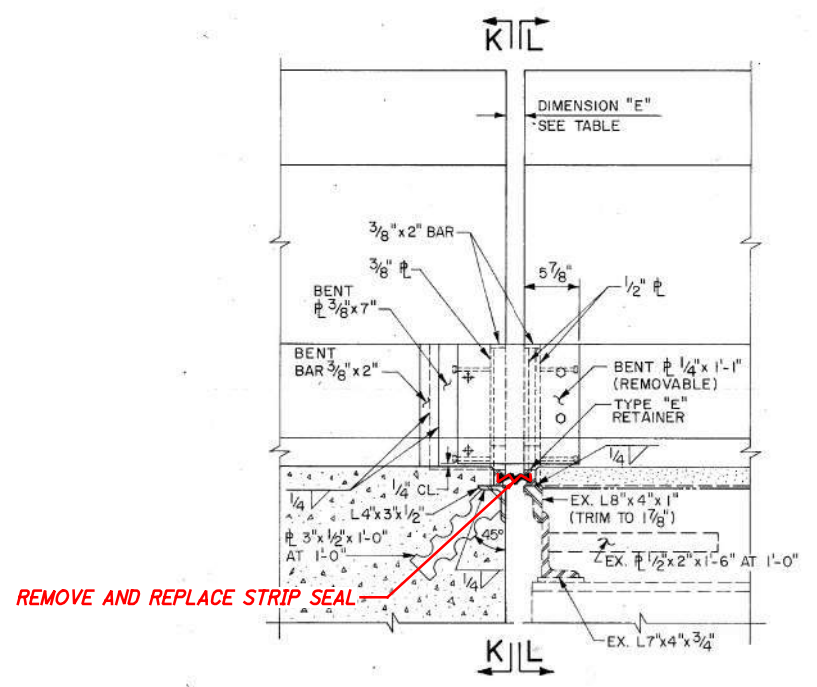
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TYPICAL EXPANSION JOINT DETAIL



PARAPET EXPANSION JOINT ELEVATION

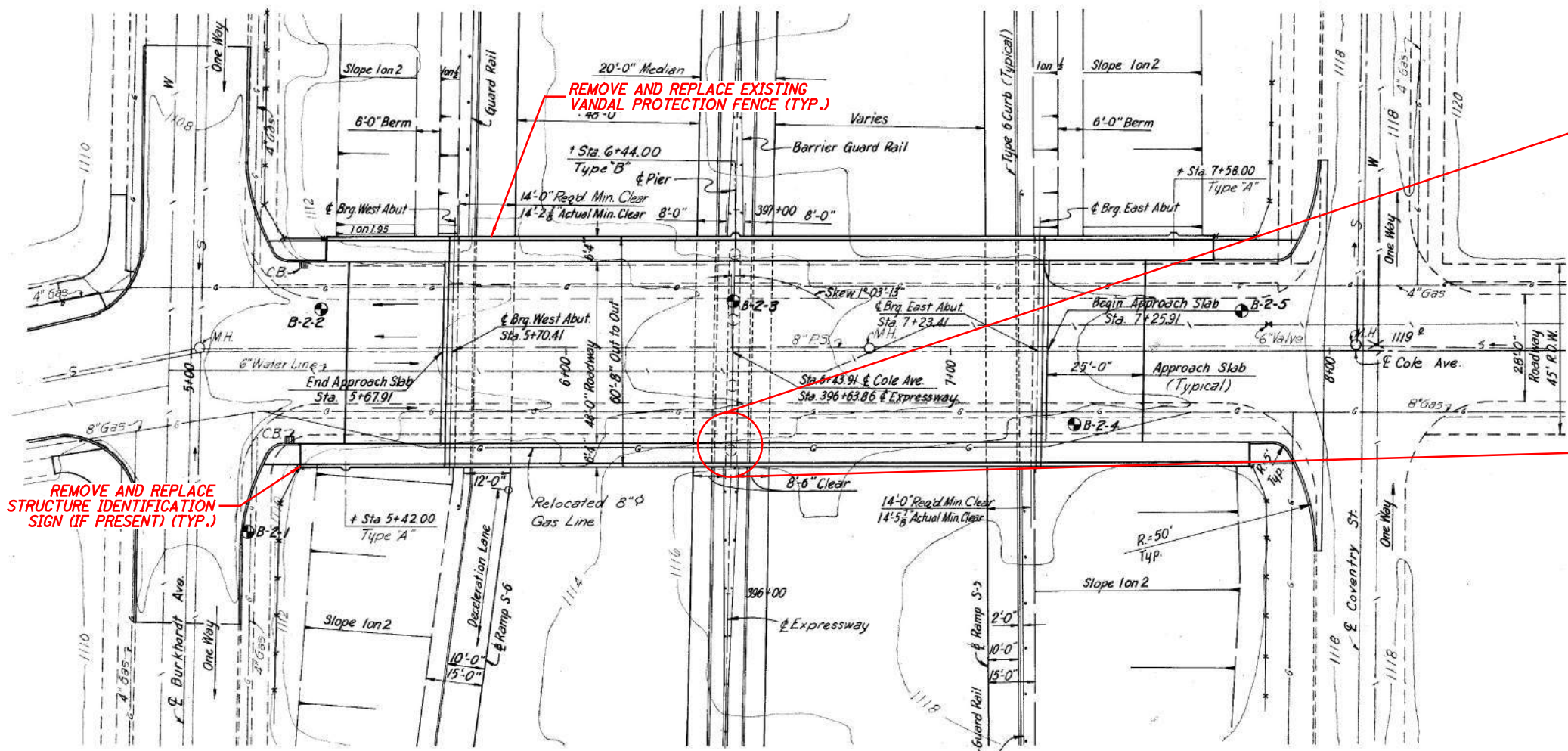
DIMENSION "E"					
SUM-77-10.96 over ARCHWOOD AVE.					
TEMPERATURE °F	50	60	70	80	90
NORTH ABUT.	2 1/16"	2"	1 5/16"	1 27/32"	1 3/4"
SOUTH ABUT.	2 1/32"	2"	1 31/32"	1 5/16"	1 29/32"

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

- NOTES:
- REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.

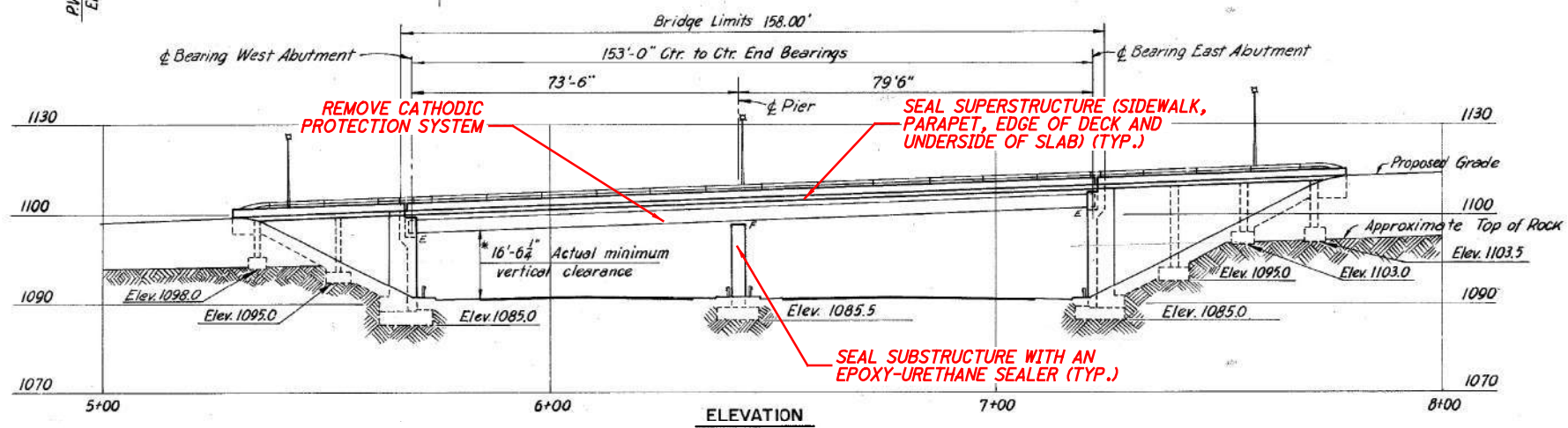
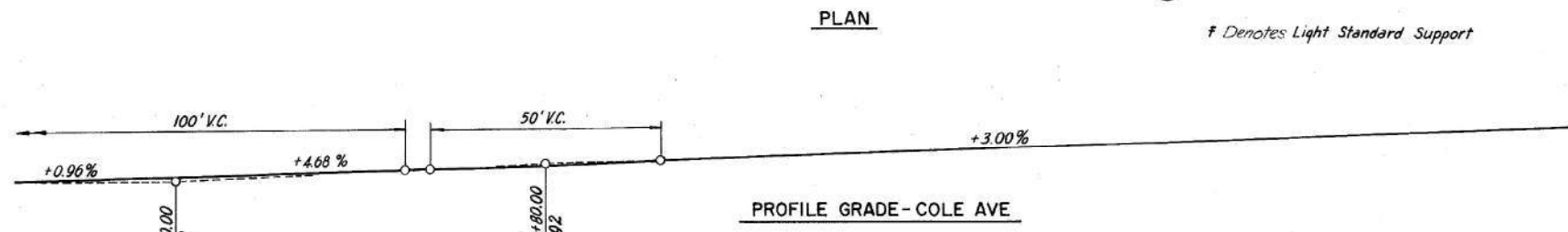
ISSUE RECORD NO.	DATE	DESCRIPTION

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REPAIR AREAS OF THE CURB AS DESIGNATED BY THE ENGINEER (TYP.)

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY



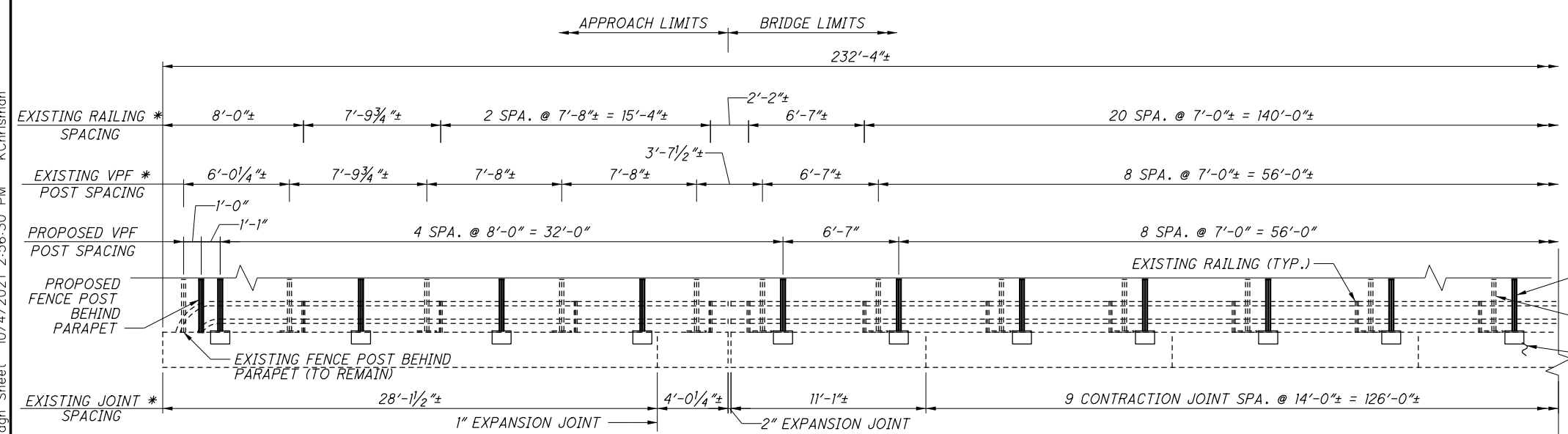
NOTES:

- FOR GENERAL NOTES, SEE SHEET 3/65 THRU 7/65.
- FOR TRANSVERSE SECTION, SEE SHEET 9/65.

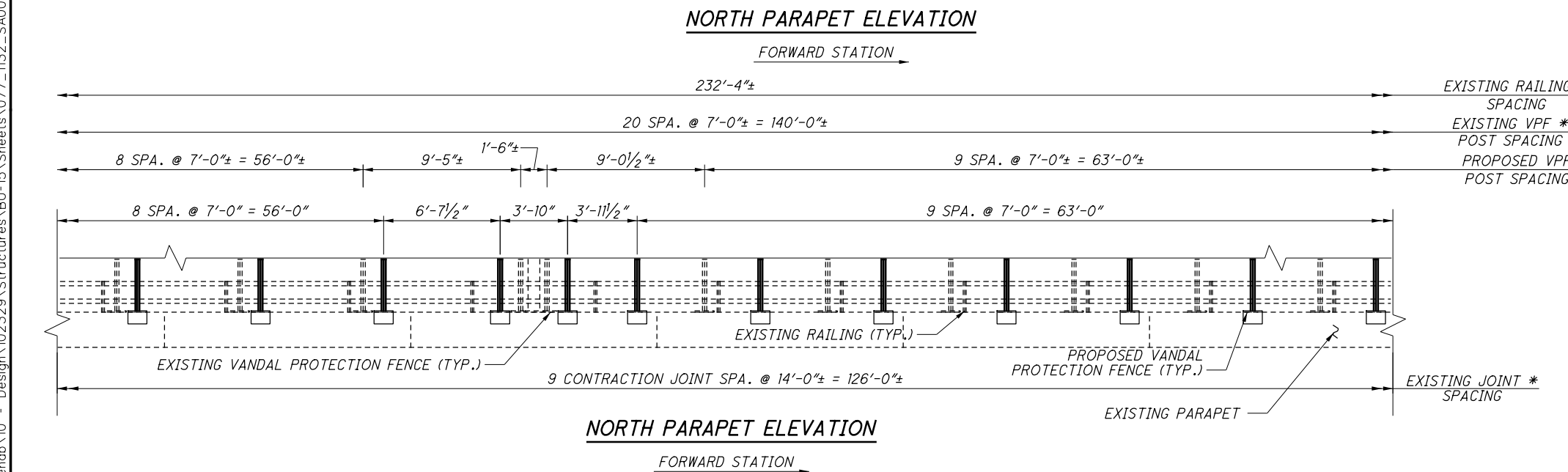
EXISTING STRUCTURE	
TYPE:	TWO SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS:	73'-6"±, 79'-6"± C/C BEARINGS
ROADWAY:	48'-0"± F/F OF CURBS WITH TWO 5'-2"± SIDEWALKS
LOADING:	CF400(57)
WEARING SURFACE:	1.5"± INTEGRAL
SKEW:	1°03'13"± RIGHT
APPROACH SLABS:	25'-0"± LONG (AS-1-54)
ALIGNMENT:	TANGENT
SUPERELEVATION:	NONE
COORDINATES:	LATITUDE 41°03'06"± N LONGITUDE 81°30'19"± W

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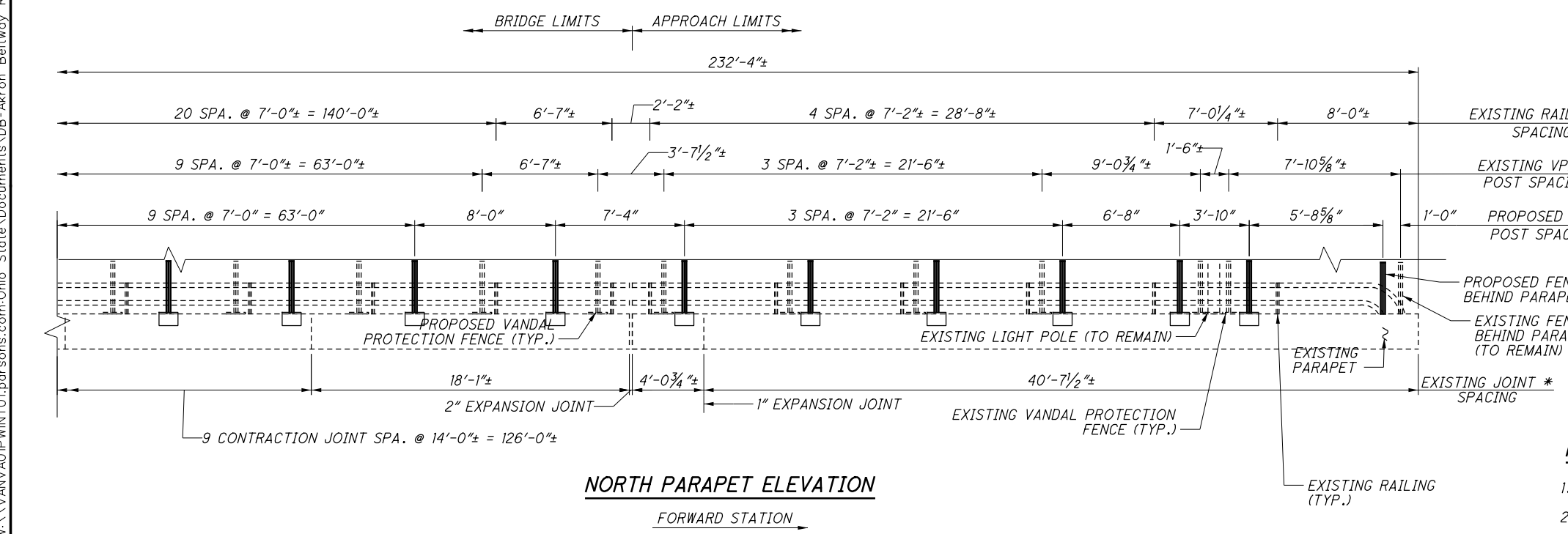
ISSUE RECORD NO.	DATE	DESCRIPTION



EXISTING RAILING (TYP.)
 PROPOSED VANDAL PROTECTION FENCE (TYP.)
 EXISTING VANDAL PROTECTION FENCE (TYP.)
 EXISTING PARAPET



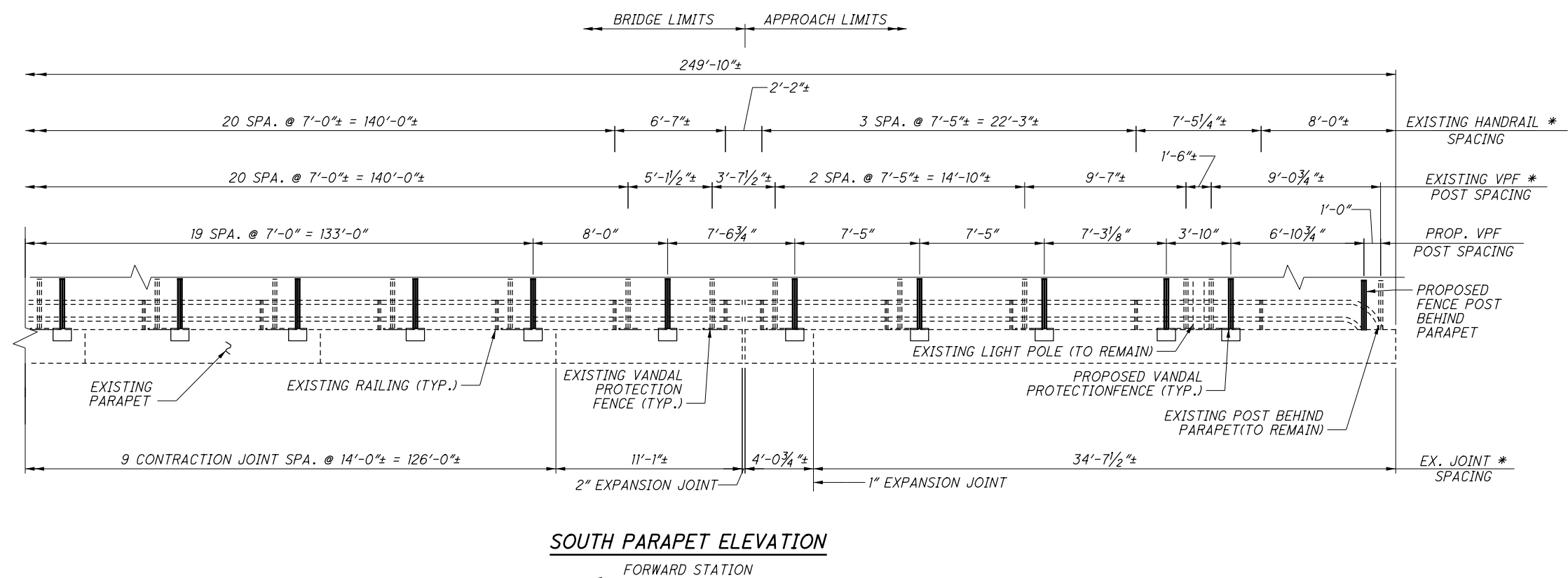
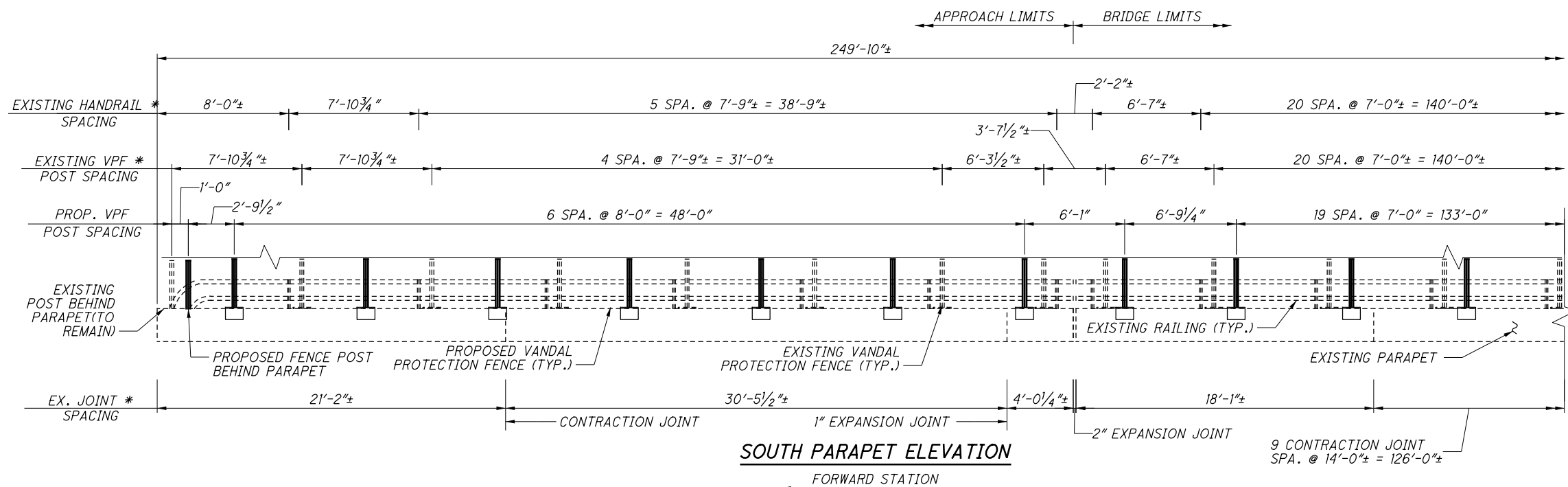
LEGEND:
 * - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM ORIGINAL PLANS.



NOTES:
 1. FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-90.
 2. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65

2021-09-22_BU 15 - RFC PLANS

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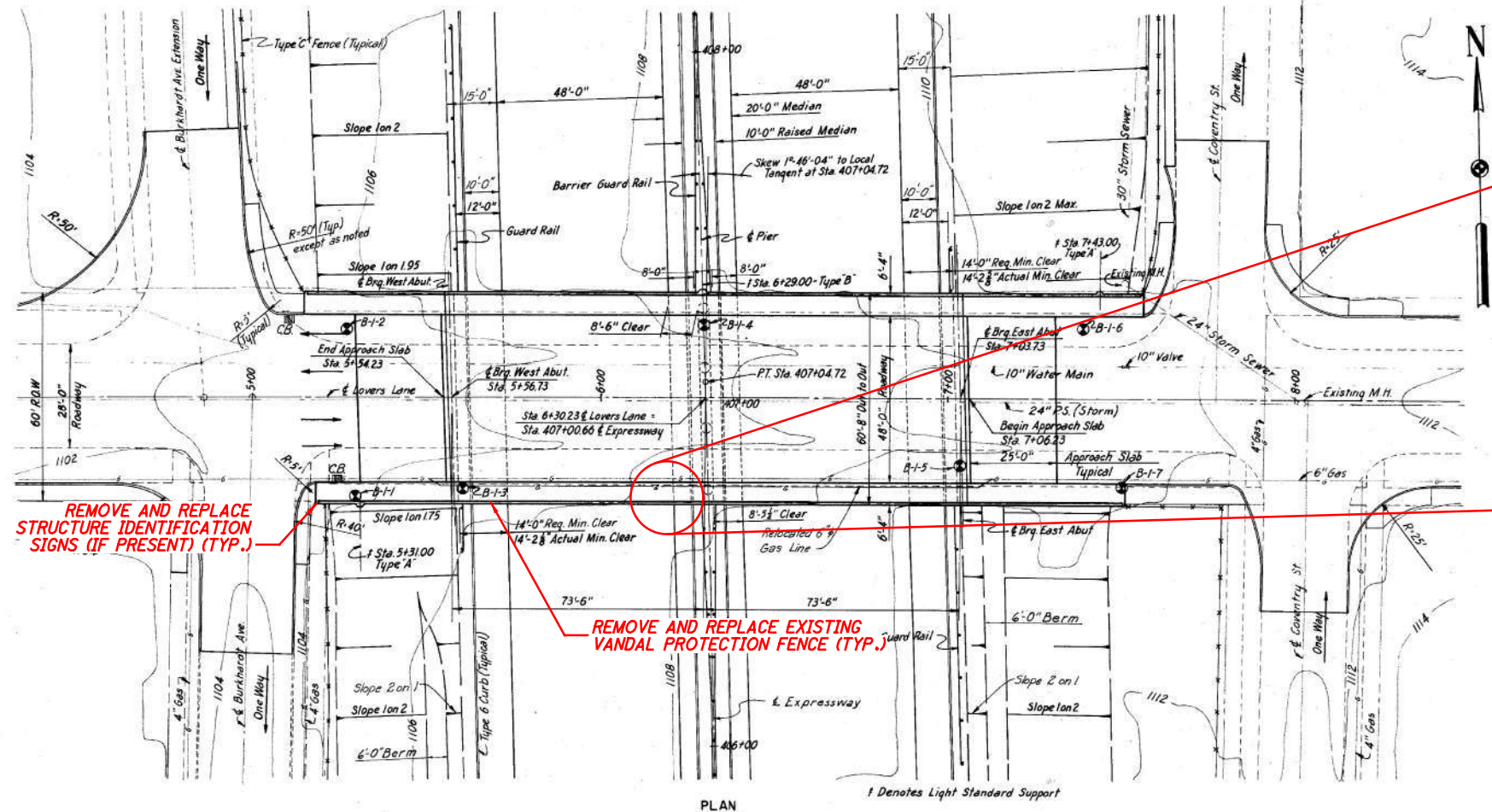
LEGEND:

* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM EXISTING PLANS.

NOTES:

- FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-94.
- FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS SEE SHEET 8/65.

2021-09-22 BU 15 - RFC PLANS

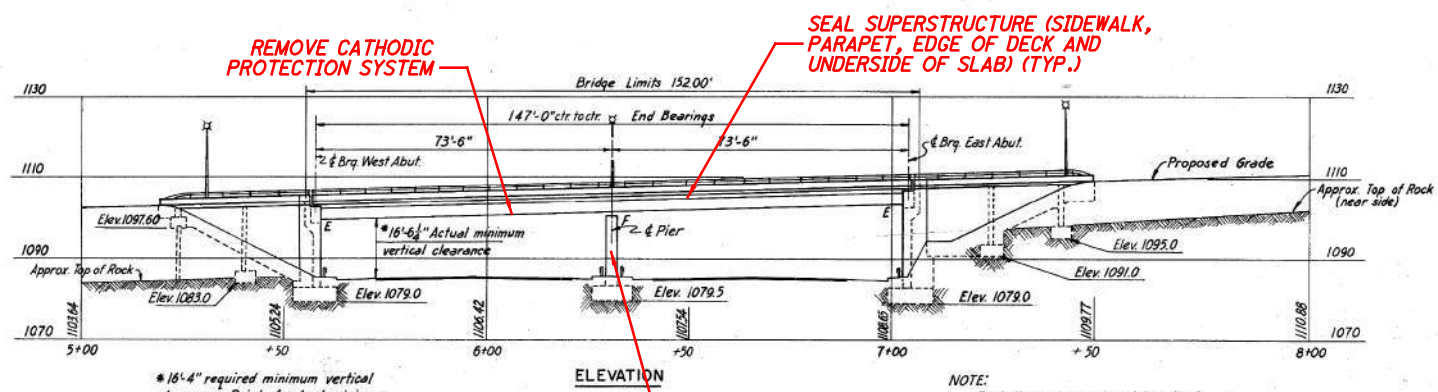
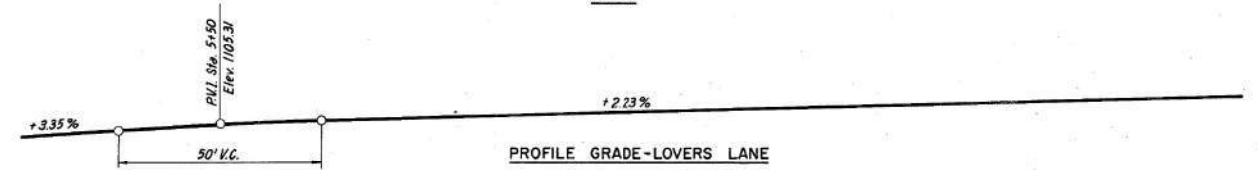


REMOVE AND REPLACE STRUCTURE IDENTIFICATION SIGNS (IF PRESENT) (TYP.)

REMOVE AND REPLACE EXISTING VANDAL PROTECTION FENCE (TYP.)

REPLACE MISSING TOP RAILING ON THE SOUTHERN PARAPET PER STD. DWG. VPF-1-90 AND REPAIR AREAS OF THE CURB AS DESIGNATED BY THE ENGINEER

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY



REMOVE CATHODIC PROTECTION SYSTEM

SEAL SUPERSTRUCTURE (SIDEWALK, PARAPET, EDGE OF DECK AND UNDERSIDE OF SLAB) (TYP.)

SEAL SUBSTRUCTURE WITH AN EPOXY-URETHANE SEALER (TYP.)

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 3/65 THRU 7/65.
2. FOR TRANSVERSE SECTION, SEE SHEET 9/65.

EXISTING STRUCTURE

TYPE: TWO SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 73'-6"±, 73'-6"± C/C BEARINGS

ROADWAY: 48'-0"± F/F OF CURB WITH TWO 5'-2"± SIDEWALKS

LOADING: CF400(57)

WEARING SURFACE: 3.1" INTEGRAL

SKEW: 1°46'04"± LEFT FORWARD TO LOCAL TANGENT

APPROACH SLABS: 25'-0"± LONG (AS-1-54)

ALIGNMENT: TANGENT

SUPERELEVATION: NONE

COORDINATES: LATITUDE 41°03'16"± N
 LONGITUDE 81°30'19"± W

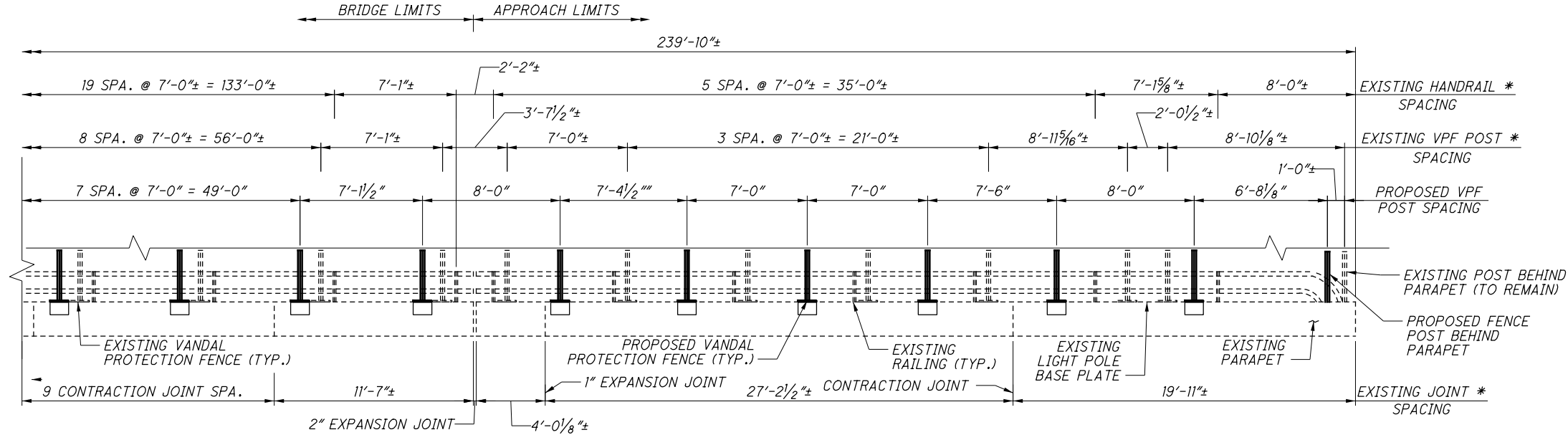
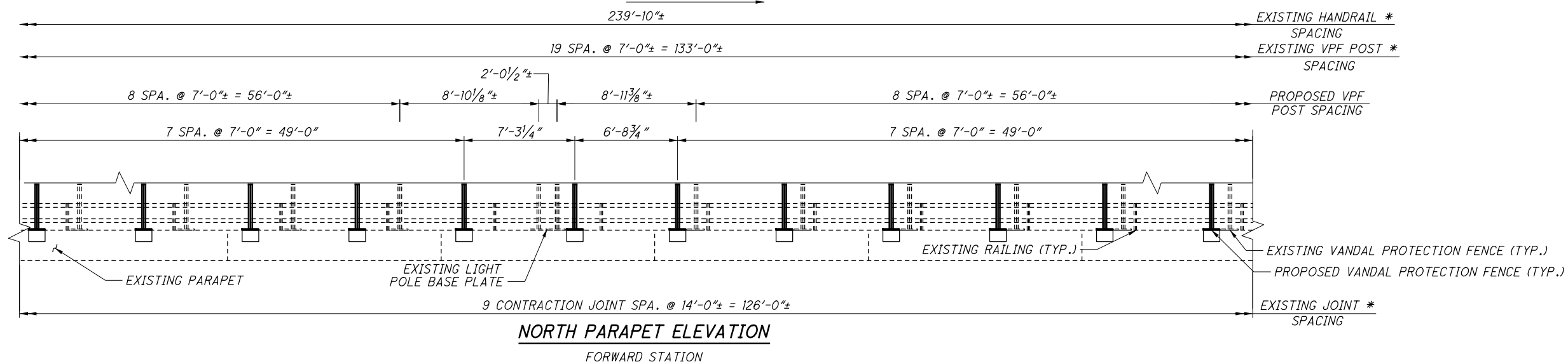
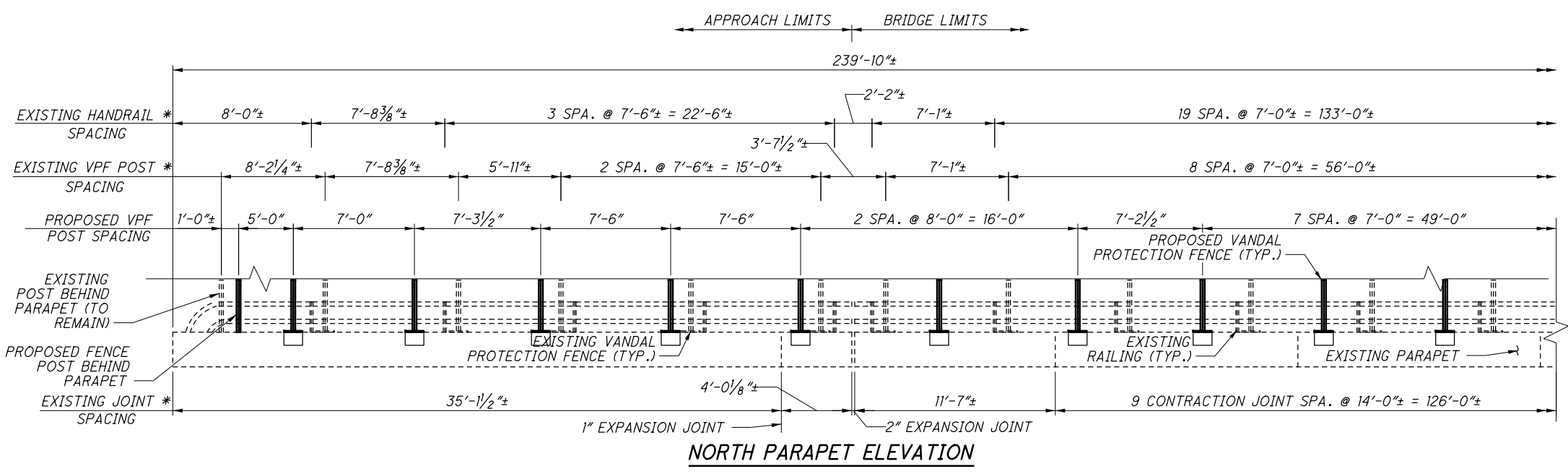
ISSUE RECORD NO.	DATE	DESCRIPTION

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2021-09-22_BU15 - RFC PLANS

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ISSUE RECORD NO.	DATE	DESCRIPTION



LEGEND:

* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM EXISTING PLANS.

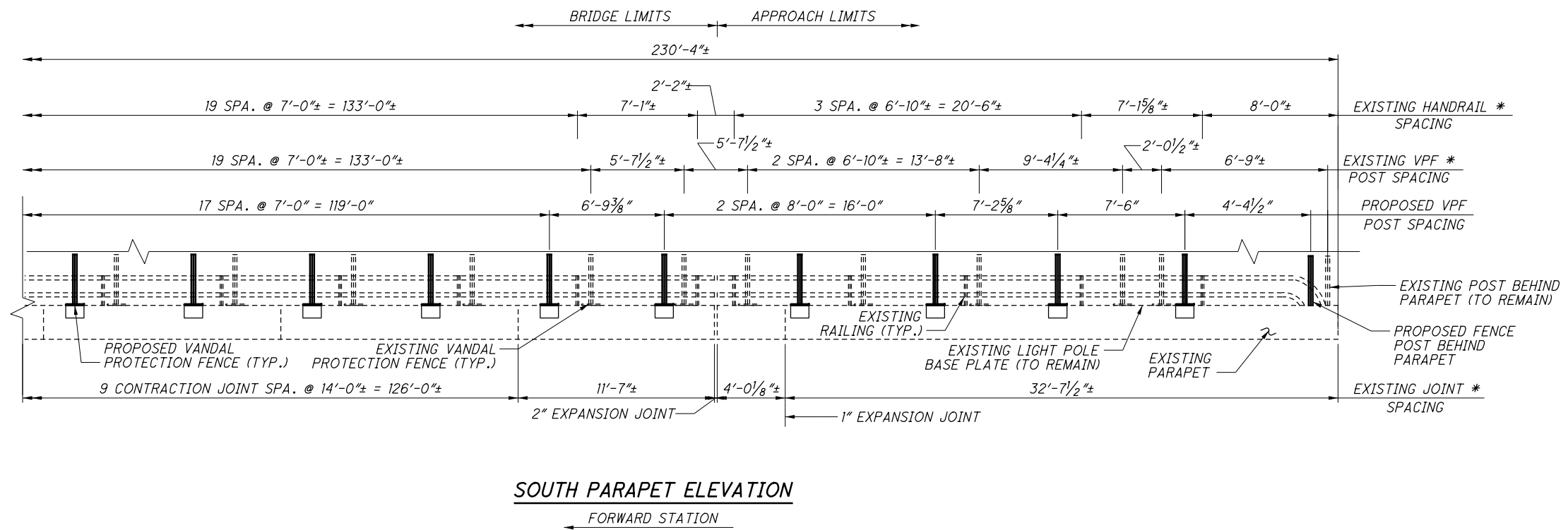
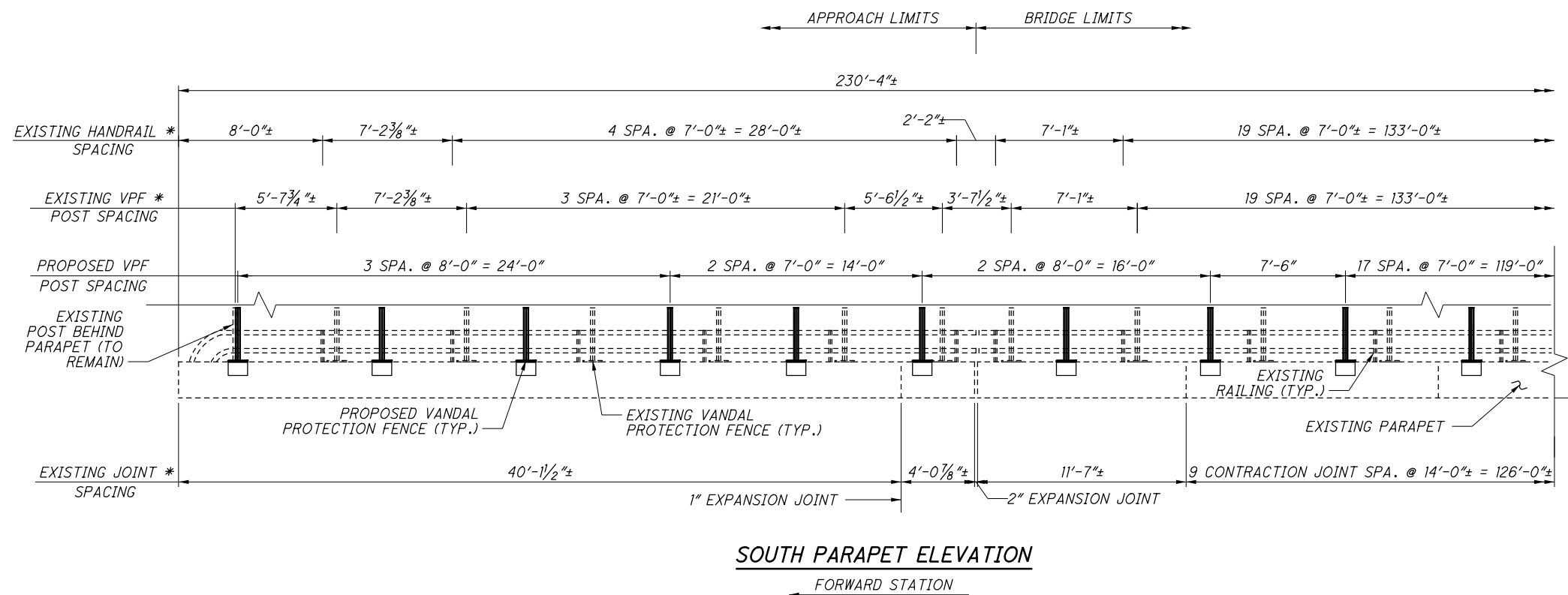
NOTES:

- FOR INFORMATION NOT SHOWN REFER TO SCD VPF-I-90.
- FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65

2021-09-22_BU 15 - RFC PLANS

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ISSUE RECORD NO.	DATE	DESCRIPTION



LEGEND:

* - EXISTING DEFLECTION JOINT AND POST LOCATIONS TAKEN FROM EXISTING PLANS.

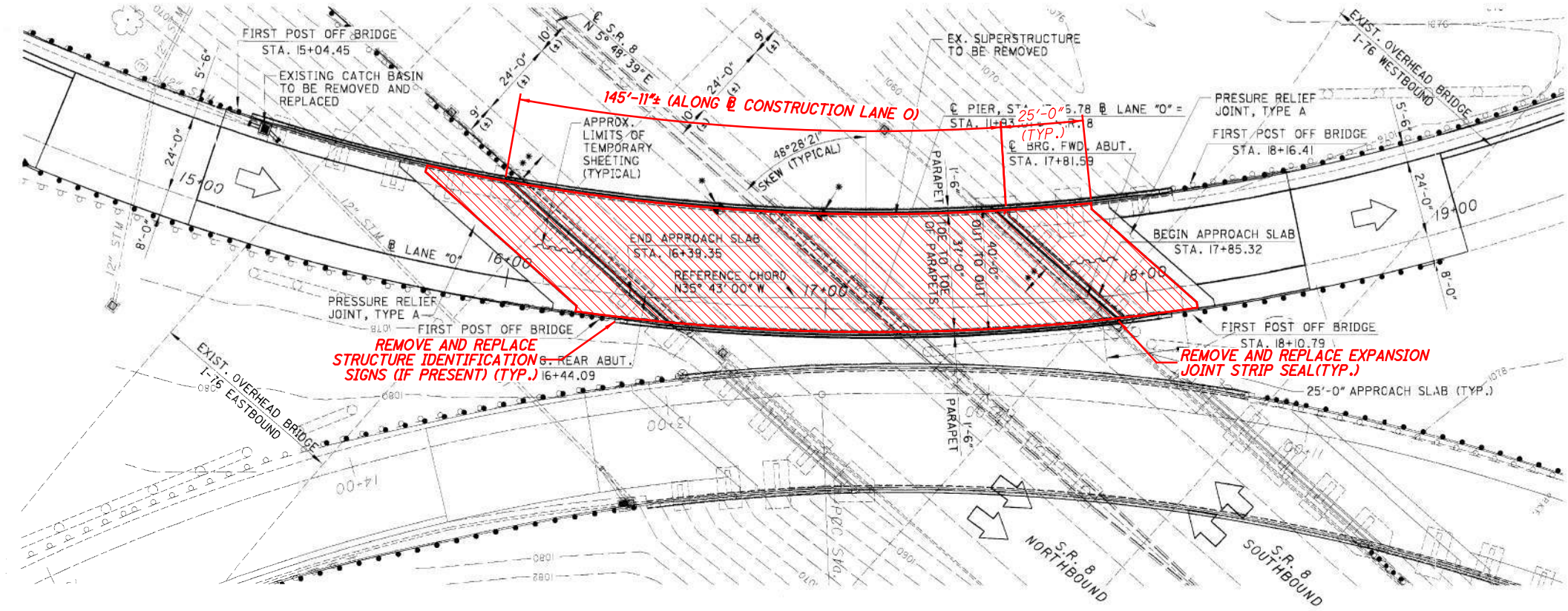
NOTES:

1. FOR INFORMATION NOT SHOWN REFER TO SCD VPF-1-90.

2. FOR ADDITIONAL VANDAL PROTECTION FENCE DETAILS, SEE SHEET 8/65.

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ISSUE RECORD	NO.	DATE	DESCRIPTION



PLAN

CURVE DATA - LANE "0"
 P.I. Sta = 18+75.52
 D = 83°48'29" (LT)
 Dc = 8°30'00"
 R = 674.07'
 T = 604.89'
 L = 985.98'
 E = 231.62'

*** MINIMUM VERTICAL CLEARANCES**

LOCATION:	S.R. 8 NB	S.R. 8 SB
EXISTING:	15'-2"	15'-5"
PROPOSED:	15'-10"	16'-1"
REQUIRED:	15'-6"	15'-6"

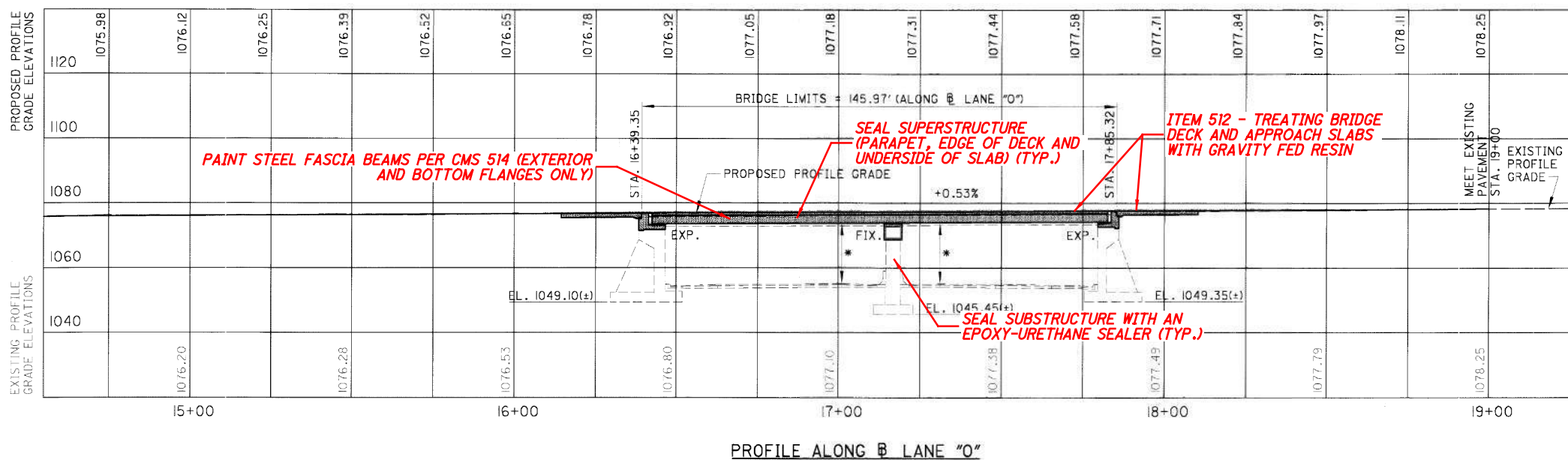
**** HORIZONTAL CLEARANCE**

	EXISTING:	PROPOSED:
EXISTING:	10'-0" (+)	10'-0" (+)
PROPOSED:	10'-0" (+)	10'-0" (+)

NOTES

1. THE REFERENCE CHORD IS A STRAIGHT LINE CONNECTING THE INTERSECTIONS OF THE ABUTMENT CENTERLINES OF BEARING AND THE SURVEY BASELINE OF LANE "0".
2. ELEVATION DATUM: ALL CURRENT PLAN ELEVATIONS ARE BASED ON NAVD-88 DATUM. EXISTING PLAN ELEVATIONS ARE BASED ON NAVD-29 DATUM. TO CONVERT EXISTING PLAN ELEVATIONS TO CURRENT, SUBTRACT 0.65'

ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY



PROFILE ALONG @ LANE "0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET **[3/65]** THRU **[7/65]**.
2. FOR TRANSVERSE SECTION, SEE SHEET **[10/65]**.

LEGEND:

- LIMITS OF GRAVITY FED RESIN

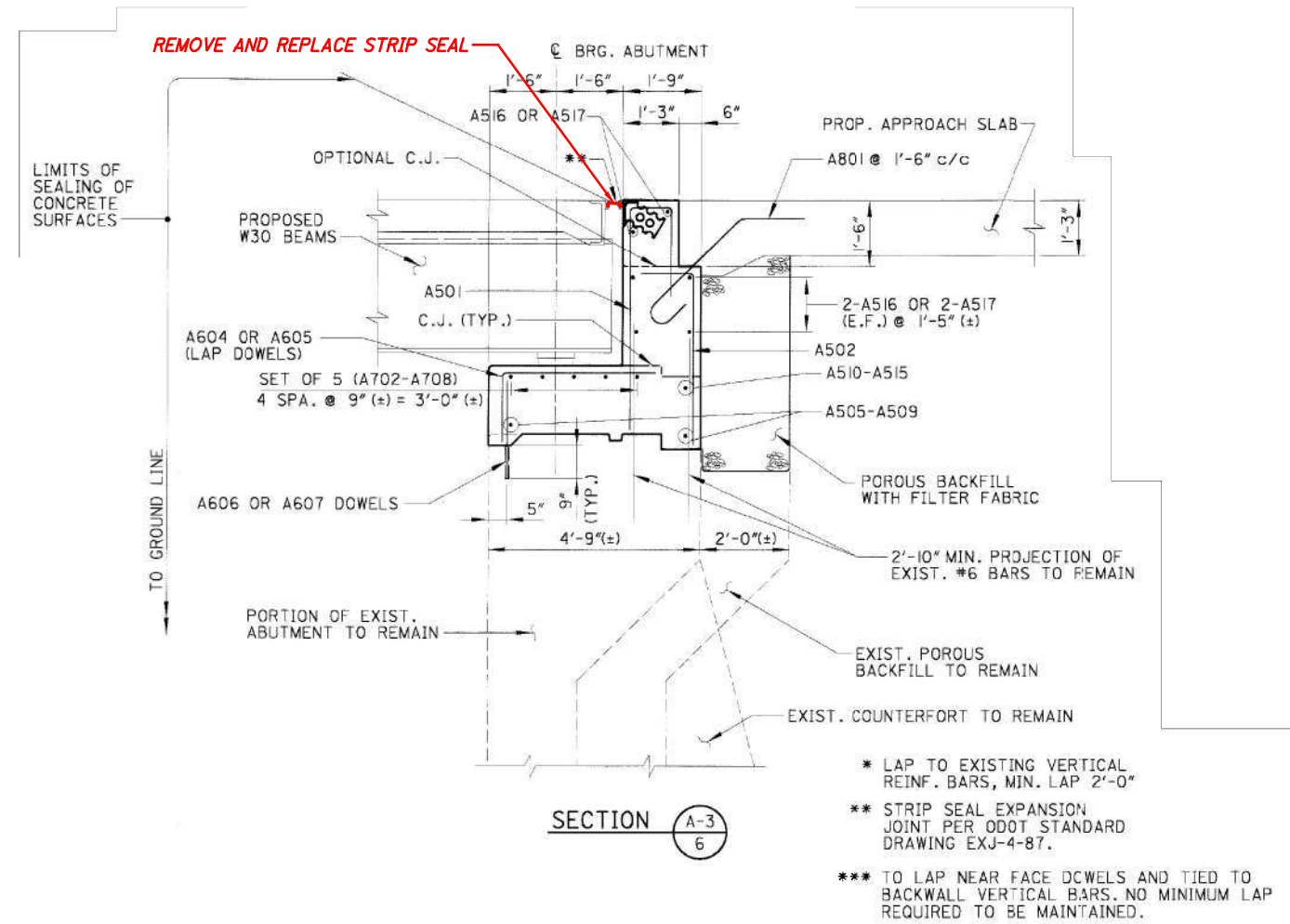
EXISTING STRUCTURE	
TYPE:	CONTINUOUS CURVED STEEL BEAMS COMPOSITE WITH DECK REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS:	68'-7 1/16" ±, 68'-7 1/16" ±, ALONG REFERENCE CHORD
ROADWAY:	37'-0" TOE TO TOE OF PARAPET 40'-0" OUT TO OUT OF DECK
LOADING:	HS25 (CASE II) AND THE ALTERNATE MILITARY LOADING
WEARING SURFACE:	1" MONOLITHIC CONCRETE
SKEW:	48°28'21" ± RIGHT FORWARD WITH RESPECT TO THE REFERENCE LINE
APPROACH SLABS:	25'-0" ± LONG (AS-1-81)
ALIGNMENT:	8°30'00" CURVE LEFT
SUPERELEVATION:	0.08 FT/FT
COORDINATES:	LATITUDE: 41°03'43" ± N LONGITUDE: 81°30'17" ± W

2021-09-22_BU15 - RFC PLANS

DESIGN AGENCY	PRIME
DATE	6/18/21
REVIEWED	SAN
DRAWN	KDC
DESIGNED	KDC
CHECKED	JAT
SUMMIT COUNTY	STA. 16+39.35+ STA. 17+85.32±
GENERAL PLAN	BRIDGE NO. SUM-77-1201 1-77 LANE 0 OVER SR-8
SUM-76/77/8-	8.24/9.74/0.00
PID No.	102329
1/2	
64	
65	

pw:\VANVA01PWINT01.parsons.com:Ohio State\Documents\DB-Akron Beltway Rehab\10 - Design\102329\Structures\BU-15\Sheets\077_1201_MD001.dgn Sheet 10/4/2021 2:57:17 PM KChrisman

ISSUE RECORD NO.	DATE	DESCRIPTION



ORIGINAL CONSTRUCTION PLANS SHOWN FOR INFORMATION ONLY. ONLY WORK TO BE PERFORMED AT ABUTMENTS IS THE STRIP SEAL REPLACEMENT

NOTES:

1. REMOVE AND REPLACE THE EXPANSION JOINT STRIP SEALS AT THE REAR AND FORWARD ABUTMENTS.