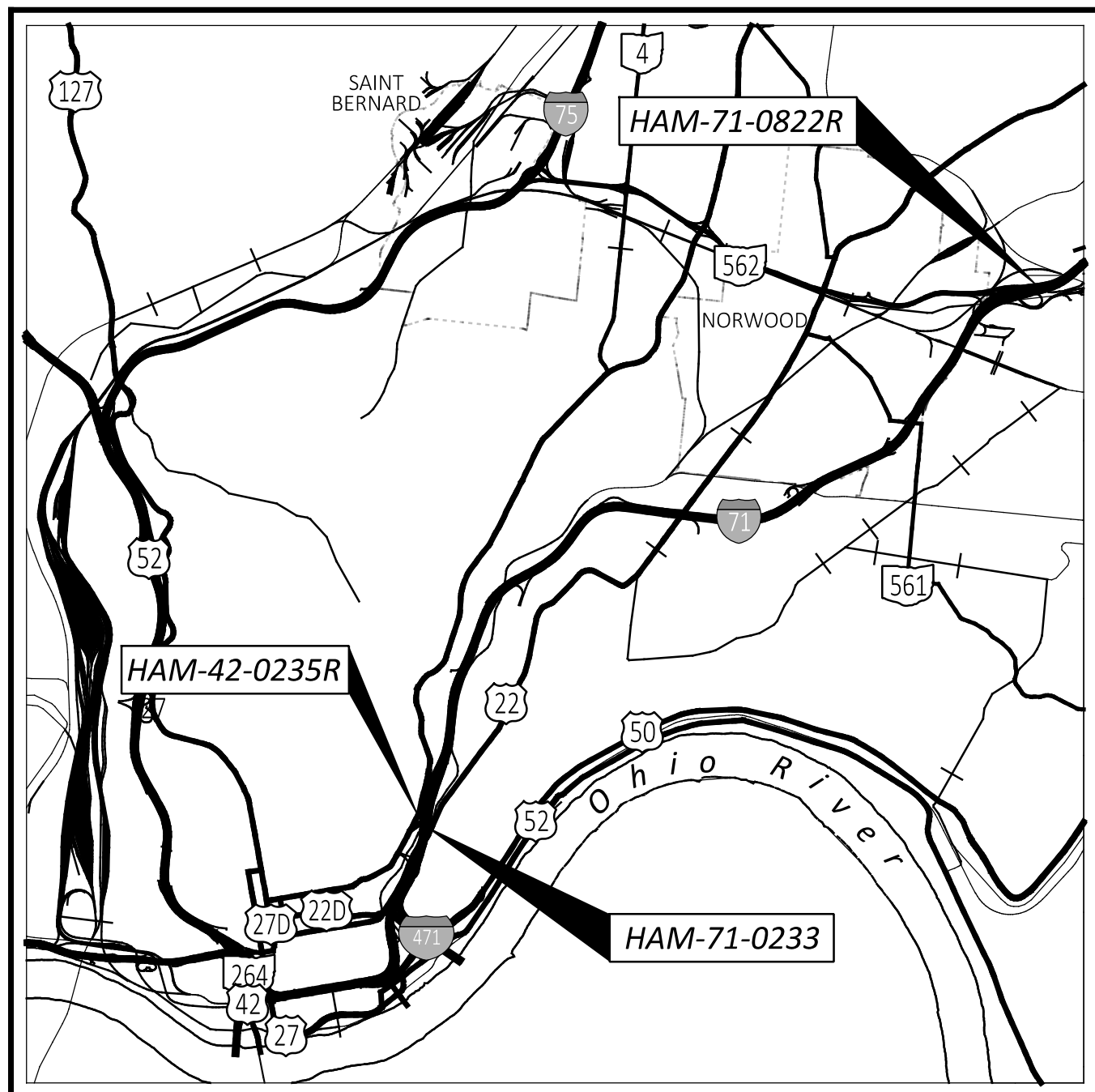
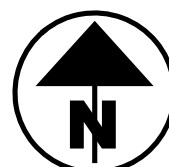




LOCATION MAP

LATITUDE: 39 °08'21" LONGITUDE: -84°27'52"



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

DESIGN DESIGNATION

SEE SHEET 2

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE REQUIRED



PLAN PREPARED BY:
ODOT DISTRICT 8 ENGINEERING
505 S. STATE ROUTE 741
LEBANON, OHIO 45036

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

HAM-71/42 2.33 & 8.22R/2.35 PART 2

HAMILTON COUNTY

CITY OF CINCINNATI

FOR PART 1, SEE HAM-US 42-2.20

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[illegible]**FEDERAL PROJECT NUMBER**

E240 (973)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATE THE BRIDGE CARRYING THE I-71 RAMP OVER I-71 AND THE BRIDGE CARRYING US 42 OVER SB I-71 WITH RIGID CONCRETE DECK OVERLAY USING HYDRODEMOLITION, REPLACEMENT OF THE EXPANSION JOINTS, STRUCTURAL STEEL REPAIRS, BRIDGE DRAINAGE IMPROVEMENTS, CONCRETE REPAIR, AND APPROACH GUARDRAIL UPGRADES. REHABILITATE THE BRIDGE CARRYING THE RIDGE/ALAMO RAMP OVER NB I-71 WITH RIGID CONCRETE DECK OVERLAY USING HYDRODEMOLITION, SPOT PAINTING OF STRUCTURAL STEEL, AND BRIDGE DRAINAGE IMPROVEMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

LIMITED ACCESS

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

2023 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET OF THE PART 1 PLANS.


Douglas A. Gruver, P.E.
District 08 Deputy Director


Pamela Boratyn
Director, Department of Transportation

ENGINEER'S SEAL

TITLE SHEET

DESIGN AGENCY

DESIGNER
GTF

REVIEWER
CAH 09/18/26

PROJECT ID
114671

<i>SHEET</i>	<i>TOTAL</i>
1	41

DESIGN DESIGNATIONS

RAMP FROM NORTHBOUND US 42 TO NORTHBOUND IR 71

CURRENT ADT (2028)	6,200
DESIGN YEAR ADT (2048)	6,300
DESIGN HOURLY VOLUME (2048)	800
DIRECTIONAL DISTRIBUTION	100%
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	N/A
LEGAL SPEED	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	
NHS PROJECT	YES

HAM-71-2.33

CURRENT ADT (2028)	106,000
DESIGN YEAR ADT (2048)	109,000
DESIGN HOURLY VOLUME (2048)	14,000
DIRECTIONAL DISTRIBUTION	70.0%
TRUCKS (24 HOUR B&C)	12%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	
NHS PROJECT	YES

HAM-42-2.35

CURRENT ADT (2028)	13,600
DESIGN YEAR ADT (2048)	13,600
DESIGN HOURLY VOLUME (2048)	1,900
DIRECTIONAL DISTRIBUTION	100%
TRUCKS (24 HOUR B&C)	4%
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
03- PRINCIPAL ARTERIAL (URBAN)	
NHS PROJECT	YES

RAMP FROM ALAMO AVE. / RIDGE AVE. TO IR 71 SOUTHBOUND

CURRENT ADT (2028)	13,500
DESIGN YEAR ADT (2048)	14,500
DESIGN HOURLY VOLUME (2048)	1,500
DIRECTIONAL DISTRIBUTION	100%
TRUCKS (24 HOUR B&C)	2%
DESIGN SPEED	N/A
LEGAL SPEED	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	
NHS PROJECT	YES

HAM-71-8.22

CURRENT ADT (2028)	118,000
DESIGN YEAR ADT (2048)	122,000
DESIGN HOURLY VOLUME (2048)	11,000
DIRECTIONAL DISTRIBUTION	70%
TRUCKS (24 HOUR B&C)	12%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - PRINCIPAL ARTERIAL INTERSTATE (URBAN)	
NHS PROJECT	YES

DESIGN DESIGNATIONS

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

CAH 09/18/26

PROJECT ID

114671

SHEET

2

TOTAL

41

UTILITIES

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

SHANE ERHART
DUKE ENERGY CORP. (ELECTRIC)
139 EAST 4TH ST, ROOM 467A
CINCINNATI, OH 45202
PHONE: 513-508-9609
SHANE.ERHART@DUKE-ENERGY.COM

ANDY MCNICHOLS
DUKE ENERGY CORP. (GAS)
139 EAST 4TH ST, ROOM 460A
CINCINNATI, OH 45202
PHONE: 513-384-4731
OH/KYHOUSEBILL@DUKE-ENERGY.COM

BRECK COWAN
ALTA FIBER
221 EAST 4TH STREET, BLDG 121-900
CINCINNATI, OHIO 45201
PHONE: 513-565-7187
ROADSPROJECTS@ALTA FIBER.COM

CHARTER COMMUNICATIONS
10920 KENWOOD ROAD
BLUE ASH, OH 45242
PHONE: 513-386-5235
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM

DAN LOUIS
CINCINNATI WATER WORKS
4747 SPRING GROVE AVE
CINCINNATI, OH 45232
PHONE: 513-352-3723
DANIEL.LOUIS@GCWWV.CINCINNATI-OH.GOV

ROB FRANKLIN
METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
1600 GEST STREET
CINCINNATI, OH 45204
PHONE: 513-557-7188
MSDUTILITYREVIEW@CINCINNATI-OH.GOV

ANDY CARTER
CITY OF CINCINNATI TRANSPORTATION AND ENGINEERING
801 PLUM STREET, ROOM 450
CITY HALL
CINCINNATI, OHIO 45202
PHONE: 513-378-6190
ANDREW.CARTER@CINCINNATI-OH.GOV

STEPHEN HOWELL
MCI / VERIZON
8800 GOVERNOR HILL DR.
CINCINNATI, OHIO 45249
PHONE: 513-839-3486
STEPHEN.HOWELL@VERIZON.COM

CRAIG SNELL
CROWN CASTLE FIBER
10188 INTERNATIONAL BOULEVARD
CINCINNATI, OHIO 45246
PHONE: 513-898-1595
CRAIG.SNELL@CROWNCastle.COM

JIM JUDD
ODOT DISTRICT 8 TRAFFIC
505 SOUTH STATE ROUTE 741
LEBANON, OHIO 45036
PHONE: 513-933-6692
JIM.JUDD@DOT.OHIO.GOV

ODOT ITS LAB
1606 W BROAD STREET
COLUMBUS, OH 43223
614-387-4113
CEN.ITS.LAB@DOT.OHIO.GOV

ITS CONTACT INFORMATION

THERE ARE EXISTING ITS ASSETS NEAR THE PROJECT LIMITS. THERE ARE NO ANTICIPATED IMPACTS TO THESE FACILITIES. PRIOR TO PERFORMING WORK AT THESE LOCATIONS CONTACT CENTRAL OFFICE ITS.

WORK LIMITS

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

PERMANENT PAVEMENT MARKINGS

ALL EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS ON THE BRIDGE SUPERSTRUCURE AND APPROACH PAVEMENTS SHALL BE REPLACED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL REFERENCE ALL EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS BEFORE THE START OF ANY PAVEMENT REMOVAL. THIS WILL BE NECESSARY TO ASSURE CORRECT REPLACEMENT IN THEIR ORIGINAL LOCATIONS. PAYMENT FOR THIS WORK SHLAL INCIDENTAL TO THE RESPECTIVE PROPOSED PAVEMENT MARKING AND RPM PAY ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ASBESTOS ABATEMENT

AN ASBESTOS SURVEY FOR SFN 1402250 AND SFN 1403494 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NDRF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NDRF MUST BE SUBMITTED TO OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NDRF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT ENGINEER.

(GO TO THE OEPA EBUSINESS CENTER AND SUBMIT THE DNRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

HARD COPY SUBMISSION:

THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OHIO 43216-1049

OR

ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W TOWN ST, SUITE 700
COLUMBUS, OHIO 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO OEPA THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NDRF FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND A HARD COPY TO THE PROJECT ENGINEER.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES IN VIOLATION OF LOCAL NOISE ORDINANCES. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SEQUENCE OF CONSTRUCTION

SEE PID 121997 PART 1 FOR MAINTENANCE OF TRAFFIC REQUIREMENTS. ONLY ONE RAMP IS PERMITTED TO BE CLOSED AT A TIME.

PHASE 1 (STRUCTURE No.: HAM-71-0233)
DETOUR NORTHBOUND ENTRANCE RAMP TO 1-71 FROM US 42 AND ELSINORE PLACE AND CLOSE THE I-71 NORTHBOUND ENTRANCE RAMP. PHASE 1 SHALL BE LIMITED TO A 30 DAYS MAXIMUM DURATION.

PHASE 2 (STRUCTURE No.: HAM-42-0235R)
DETOUR NORTHBOUND US 42 (READING ROAD) AND CLOSE THE ACCESS TO THE RAMP CARRYING NORTHBOUND US 42 OVER I-71 FROM NORTHBOUND US 42/ELSinORE PLACE AND FROM SOUTHBOUND US 42. PHASE 2 SHALL BE LIMITED TO A 30 DAYS MAXIMUM DURATION.

PHASE 3 (SEE PID 121997 PART 1)

PHASE 4 (BRIDGE HAM-71-0822R)
DETOUR RIDGE RD. AND ALAMO AVE. AND CLOSE THE ENTRANCE RAMP FROM RIDGE RD. / ALAMO AVE. TO SOUTHBOUND I-71. PHASE 4 SHALL BE LIMITED TO A 30 DAYS MAXIMUM DURATION.

CITY OF CINCINNATI NOTES

CONSTRUCTION NOTIFICATION:
TEN BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING THE PROJECT ENGINEER WILL NOTIFY THE CITY OF CINCINNATI LPA COORDINATOR OF THE PRECONSTRUCTION MEETING'S DATE, TIME, AND LOCATION. CONTACT CITY OF CINCINNATI, DEPARTMENT OF TRANSPORTATION AND ENGINEERING, DIRECTOR'S OFFICE, AT (513) 352-2366, ATTENTION: CHRIS KELLY AT (513) 352-3721 OR BY EMAIL AT CHRIS.KELLY@CINCINNATI-OH.GOV.

PERMITS:
A CITY OF CINCINNATI DEPARTMENT OF TRANSPORTATION AND ENGINEERING (DOTE) PERMIT IS REQUIRED PRIOR TO THE ODOT CONTRACTOR COMMENCING WORK IN THE CITY OF CINCINNATI'S PUBLIC RIGHT-OF-WAY. PERMIT APPLICATIONS FOR STREET USE, STREET BARRICADE, STREET OPENING, ETC. MAY BE MADE AT ROOM 425, CITY HALL, 801 PLUM STREET CINCINNATI, OHIO 45202.
CITY ISSUED PERMITS MAY REQUIRE MAJOR EVENT WORK RESTRICTIONS ON THE CONTRACTOR'S ACTIVITIES. THE CITY MAINTAINS A LIST OF KNOWN MAJOR EVENTS AT THE FOLLOWING WEBSITE:

[HTTP://CINCINNATI-OH.GOV/POLICE/SPECIAL-EVENTS-REGULATIONS-AUCTIONS/EVENT-PERMITS/](http://cincinnati-oh.gov/police/special-events-regulations-auctions/event-permits/)

THE CITY OF CINCINNATI RESTRICTS NIGHTTIME CONSTRUCTION WORK BETWEEN THE HOURS OF 11:00 P.M. AND 7:00 A.M. CITY ISSUED PERMITS WILL REQUIRE THE CONTRACTOR TO SECURE THE CITY ENGINEERS APPROVAL FOR NIGHTTIME WORK.

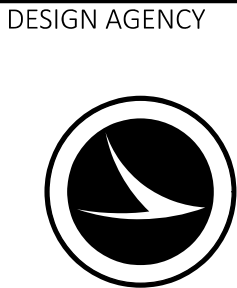
PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED.



DESIGN AGENCY	
DESIGNER	GTF
REVIEWER	
CAH	09/18/26
PROJECT ID	114671
SHEET	TOTAL
3	41

[illegible]

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

GSD-1-19	DATED/REVISED	7/19/2024
EXJ-4-87	DATED/REVISED	1/19/2024

REFERENCE SHALL BE MADE TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800	DATED 07-17-2026
848	DATED 07-19-2024

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE LRFD BRIDGE DESIGN SPECIFICATIONS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA (NEW MATERIAL)

CONCRETE CLASS QC2
-COMPRESSIVE STRENGTH 4.5 KSI (DECK AND TOP OF BACKWALL)

EPOXY COATED STEEL REINFORCEMENT
– MINIMUM YIELD STRENGTH 60-KSI (DECK)

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

DECK PROTECTION METHOD

2¾" SUPERPLASTICIZED DENSE CONCRETE OVERLAY
EPOXY COATED STEEL REINFORCEMENT

EXISTING STRUCTURE VERIFICATION

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. BEFORE ORDERING MATERIALS EXISTING DIMENSIONS SHALL BE FIELD VERIFIED AS REQUIRED TO ACCURATELY JOIN THE PROPOSED ELEMENTS WITH THE EXISTING STRUCTURE. PAYMENT FOR THE FIELD VERIFICATION SHALL BE COMPENSATED UNDER THE RESPECTIVE PAY ITEM FOR THAT WORK. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

EXISTING STRUCTURE PLANS

THE EXISTING STRUCTURE PLANS ARE AVAILABLE ONLINE THROUGH THE FOLLOWING WEBSITE:
ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/HAM-121997/Reference%20Files/

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL PERTINENT EXISTING DRAWINGS AND DETAILS RELEVANT TO THIS PROJECT.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS WORK CONSISTS OF THE PARTIAL REMOVAL OF CONCRETE BRIDGE DECKS AND THE TOPS OF ABUTMENT BACKWALLS TO ACCOMMODATE THE PROPOSED EXPANSION JOINT REPLACEMENTS. ADDITIONALLY, THE REMOVAL OF EXISTING EXPANSION JOINTS AND END CROSS FRAMES SHALL BE INCLUDED AS PART OF THIS PAY ITEM.

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. TO ENSURE THE PROTECTION OF PUBLIC WELFARE, OR LIFE, HEALTH OR PROPERTY THE CONTRACTOR SHALL SUBMIT ENGINEERED DRAWINGS TO THE ENGINEER FOR APPROVAL PER 501.05B.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF THE PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF THE DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK.

REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. THE ENGINEERS APPROVAL SHALL BE OBTAINED BEFORE PERFORMING THE REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS, THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

MAXIMUM REMOVAL LIMITS: SOUND THE CONCRETE TO DETERMINE THE LIMITS OF THE CONCRETE TO BE REMOVED AND COMPARE THESE LIMITS TO THE AREAS SHOWN IN THE PLANS. IF NEW AREAS ARE DISCOVERED OR IF THE DIMENSIONS OF THE PLAN AREAS INCREASE BY MORE THAN 25% IN ANY DIRECTION, DOCUMENT THE AREAS AND NOTIFY THE ENGINEER FOR EVALUATION TWO WEEKS PRIOR TO REMOVAL. THE ENGINEER WILL DETERMINE IF PATCHING IN DISCRETE SECTIONS/STAGES IS NEEDED OR IF THE INSTALLATION OF TEMPORARY FALSEWORK IS REQUIRED.

THE CONTRACTOR MUST REVIEW THE STRUCTURE WHEN PREPARING HIS BID. THE CONTRACTOR WILL REVIEW THE CONDITION OF THE STRUCTURE TO DETERMINE WHAT DEBRIS WILL FALL FROM THE STRUCTURE DURING REMOVAL. THE CONTRACTOR WILL DETERMINE THE CORRESPONDING COST TO CLEAN UP ANY AND ALL DEBRIS DURING REMOVAL OPERATIONS. THE COST TO CLEAR AND CLEAN UP ALL DEBRIS DURING REMOVAL SHALL INCLUDED WITH THE BID FOR THIS ITEM OF WORK. NO ADDITIONAL COST WILL BE RECOGNIZED TO CLEAN DEBRIS RESULTING FROM THE STRUCTURE REMOVAL OPERATION.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING STEEL REINFORCEMENT 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 AT NO COST TO THE DEPARTMENT.

THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE, UNDER THE PAY ITEM:
ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN

QUANTITIES FOR DOWEL HOLES REQUIRED FOR ANCHORING NEW REINFORCEMENT INTO EXISTING CONCRETE ARE CARRIED TO THE STRUCTURES SUBSUMMARY AND SHALL BE PAID SEPARATELY UNDER:
ITEM 509 – DOWEL HOLES WITH NON-SHRINK GROUT, EACH

ENSURE DOWEL HOLES ARE DRILLED TO THE DEPTH AND DIAMETER SPECIFIED IN THE PLANS AND CLEANED PRIOR TO GROUTING. GROUT SHALL MEET THE REQUIREMENTS OF CMS ITEM 705.20.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

THE QUANTITY GIVEN IN THE ESTIMATE QUANTITY TABLE HAS BEEN ESTIMATED FROM FIELD INSPECTION AND ORIGINAL PLANS. IT IS POSSIBLE THAT ADDITIONAL AREAS REQUIRING PATCHING MAY HAVE DEVELOPED SINCE THE MOST RECENT INSPECTION OF THE STURCUTRE. THEREFORE, THE CONTRACTOR SHALL SOUND THE SURROUNDING PERIMETER OF THE AREA TO BE PATCHED AND PATCH NEW AREAS APPROVED BY THE ENGINEER THAT HAVE NOT BEEN DETAILED IN THE PLANS. PAYMENT SHALL BE MADE PER SQ. FT. AT THE PRICE BID FOR THE ACTUAL AREA PATCHED AND SHALL INCLUDE ALL COST FOR LABOR, MATERIALS AND EQUIPMENT.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED STEEL REINFORCEMENT. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

REMOVE THE FORMS WITHIN 24 HOURS AFTER PLACING CONCRETE AND FINISH ALL EXPOSED SURFACES BY RUBBING TO MATCH THE SURROUNDING SURFACE. APPLY MEMBRANE CURING ACCORDING TO C&MS 511.14, METHOD B, IMMEDIATELY AFTER RUBBING THE SURFACES.

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2¾")

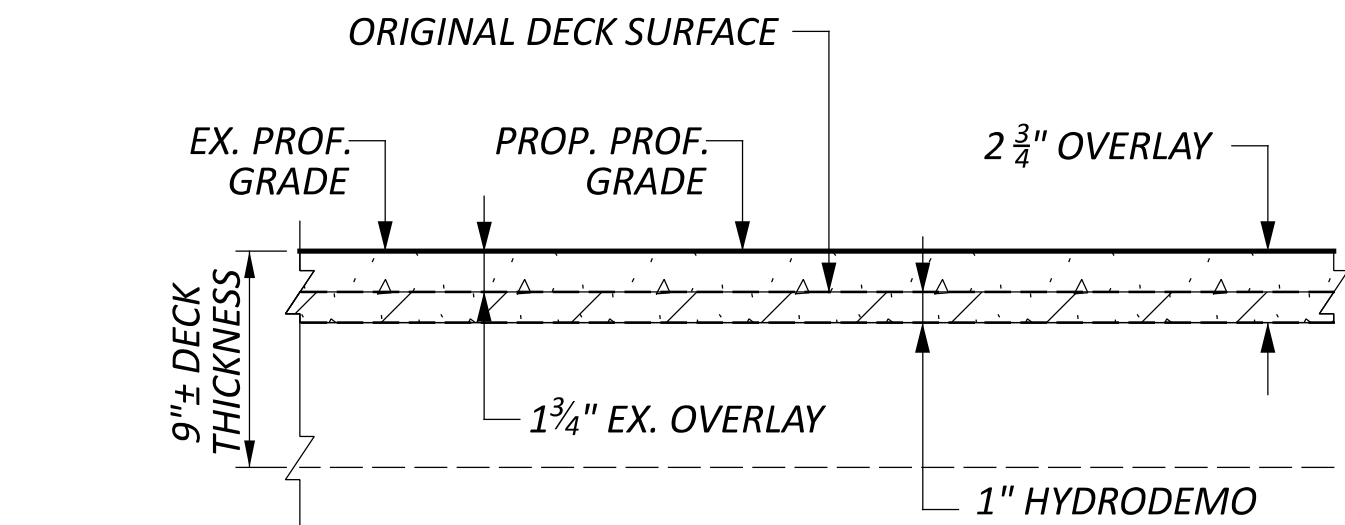
THIS ITEM SHALL CONFORM TO SS 848 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

THE OVERLAY MATERIAL SHALL MEET THE FOLLOWING CRITERIA: MINIMUM 5 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.25 IN. MAX.) MEETING ASTM C1116 TYPE III SHALL BE ADDED TO THE MIX.

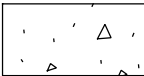
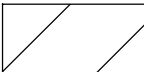
THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT, AGGREGATE, AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.5 AND 2.25 INCHES IN LENGTH. FIBERS WITH AN ASPECT RATIO GREATER THAN 60 REQUIRES A BLOWER TO INHIBIT BALLING AND MATTING OF FIBERS (ACI 544.3R-08). STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURE'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE.

ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT. THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CONCRETE SUPPLIERS CHOICE OF ONE OF THESE ADMIXTURES DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS.



LEGEND

-  - SUPERPLASTICIZED DENSE CONCRETE OVERLAY
-  - SURFACE PREPARATION USING HYDRO-DEMOLITION

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

CAH 09/18/26

PROJECT ID

114671

SHEET

5

TOTAL

41

REVIEW OF DRAINAGE FACILITIES

THIS WORK CONSISTS OF THE CLEANING OF THE REMAINING BRIDGE DRAINAGE SYSTEM AFTER DOWNSPOUT REMOVAL. THE REMAINING DRAINAGE SYSTEM IS TO BE CLEANED FROM THE GRATE TO THE FIRST MANHOLES ON BOTH SIDES OF THE BRIDGE.

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

REMOVE SEDIMENTS, DEBRIS OR OTHER BLOCKAGES FROM THE EXISTING DRAINAGE SYSTEMS AS DIRECTED BY THE ENGINEER. ALL MATERIAL REMOVED SHALL BE DISPOSED OF PER CMS 105.16 AND 105.17. CLEAN OUT ALL CONDUITS, CATCH BASINS, AND MANHOLES TO THE SATISFACTION OF THE ENGINEER.

ALL LABOR, EQUIPMENT, MATERIAL, MAINTENANCE OF TRAFFIC (INCLUDING LEO, IF NEEDED) AND ALL INCIDENTALS REQUIRED TO COMPLETE THE WORK. THIS WORK SHALL BE PAID FOR UNDER ITEM 690 SPECIAL – MISC.: DRAINAGE SYSTEM CLEANING, 36” AND UNDER

ITEM 514 - FIELD PAINTING, MISC.: SPOT PAINTING OF STRUCTURAL STEEL NEAR EXPANSION JOINTS

1.0 DESCRIPTION THIS ITEM CONSISTS OF FIELD SPOT PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU OR IZEU PAINT SYSTEM TO TREAT STRUCTURAL STEEL AT LOCATIONS DESIGNATED IN THE PLANS. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU OR IZEU PAINT SYSTEMS.

2.0 GENERAL C&MS 514.05 THROUGH 514.10 AND 514.13.D APPLY UNLESS MODIFIED BY THESE NOTES.

3.0 WASHING EXISTING OZEU OR IZEU PAINTED SURFACES CLEAN SURFACES TO BE COATED WITH LOW PRESSURE WATER. REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS. CREATE SETTLEMENT COLLECTION BASINS AND STRAIN ALL WASH WATER ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH C&MS 514.08 AND C&MS 514.13.D FOR ANY DEBRIS.

ITEM 514 - FIELD PAINTING, MISC.: SPOT PAINTING OF STRUCTURAL STEEL NEAR EXPANSION JOINTS (CONTINUED)

4.0 SURFACE PREPARATION AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP 11, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3; SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1; OR SSPC SP12 UHP WJ-4, ULTRAHIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALLY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING’S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF ¼ INCH OF EACH COAT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO C&MS 514.13.D.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A 1/16 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

5.0 FIELD PAINTING APPLY THE PRIME, INTERMEDIATE AND FINISH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN C&MS 708.02, ACCORDING TO C&MS 514.15, 514.16, 514.17, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, OR AS DESIGNATED IN THE CONTRACT. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF C&MS 514.20. APPLY PAINT AS FOLLOWS:

A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.

B. APPLY CAULK AFTER PRIMING

C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.

D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME, INTERMEDIATE AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

6.0 MEASUREMENT THE DEPARTMENT WILL MEASURE FIELD PAINTING OF STRUCTURAL STEEL BY LUMP SUM. ALL STRUCTURAL STEEL WITHIN 10 FEET OF EACH INTERMEDIATE EXPANSION JOINT STRUCTURAL STEEL WILL BE PAINTED (5 LOCATIONS). THE LOCATIONS OF THE INTERMEDIATE EXPANSION JOINTS ARE AS SHOWN ON SHEET _:

ITEM 514 - FIELD PAINTING, MISC.: SPOT PAINTING OF STRUCTURAL STEEL NEAR EXPANSION JOINTS (CONTINUED)

7.0 BASIS OF PAYMENT THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS: THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL AREA OF STEEL TO BE PAINTED DURING THE CONSTRUCTION PROJECT. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

PROPOSED WORK

BRIDGE No.: HAM-71-0233 (SFN 3106756)

1. REPLACE THE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION WITH 2.75” THICK SDC OVERLAY WITH MACRO FIBERS
2. REPLACE THE ELASTOMERIC EXPANSION JOINTS INCLUDING THE END OF DECK AND THE TOP OF THE BACKWALL WITH A NEW ELASTOMERIC STRIP SEAL EXPANSION JOINT
3. TRIM BEAM ENDS AND REPLACE END CROSS FRAMES.
4. PAINT THE END 3 FEET OF THE BEAM ENDS INCLUDING BEARINGS.
5. REPAIR HOLES IN THE ENDS OF THE BEAM TO REMAIN
6. REPLACE DOWNSPOUTS DOWN TO THE GROUND
7. CLEAN THE DRAINAGE SYSTEM FROM THE GROUND TO THE FIRST MANHOLE/CATCH BASIN.
8. PATCH THE EXISTING ABUTMENTS WITH 519 PATCHING. PLACE FRP OVER REPAIRED CONCRETE AREAS UNDER BEARINGS
9. REPLACE APPROACH GUARDRAIL

PROPOSED WORK (CONTINUED)

BRIDGE No.: HAM-42-0235R (SFN 3101207)

1. REPLACE THE EXISTING LATEX MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION WITH 2.75” THICK SDC OVERLAY WITH MACRO FIBERS
2. REPLACE THE ELASTOMERIC EXPANSION JOINTS INCLUDING THE END OF DECK AND THE TOP OF THE BACKWALL WITH A NEW ELASTOMERIC STRIP SEAL EXPANSION JOINT TRIM BEAM ENDS AND REPLACE END CROSS FRAMES.
4. PAINT THE END 3 FEET OF THE BEAM ENDS INCLUDING BEARINGS.
5. REPAIR HOLES IN THE ENDS OF THE BEAM TO REMAIN
6. REPLACE DOWNSPOUTS DOWN TO THE GROUND
7. CLEAN THE DRAINAGE SYSTEM FROM THE GROUND TO THE FIRST MANHOLE/CATCH BASIN.
8. REPLACE APPROACH GUARDRAIL

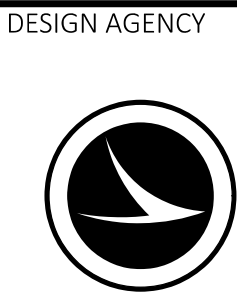
BRIDGE No.: HAM-71-0822R (SFN 3115135)

1. REPLACE THE EXISTING MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION WITH 2.75” THICK SDC OVERLAY WITH MACRO FIBERS
2. SPOT PAINT EXISTING STRUCTURAL STEEL AT LOCATIONS AS DIRECTED BY THE ENGINEER AND AS SHOWN IN THE PLANS.
3. REPLACE DOWNSPOUTS DOWN TO THE GROUND
4. CLEAN THE DRAINAGE SYSTEM FROM THE GROUND TO THE FIRST MANHOLE/CATCH BASIN.

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT	O/O - OUT TO OUT
APPR. - APPROACH	P.C.P.P - PERFORATED CORRUGATED
BTM. - BOTTOM	PLASTIC PIPE
BRG. - BEARING	P.E.J.F. - PREFORMED EXPANSION
BRGS. - BEARINGS	JOINT FILLER
I/ - CENTERLINE	PG - PROFILE GRADE
C/C - CENTER TO CENTER	PGL - PROFILE GRADE LINE
CIP - CAST-IN-PLACE	PROP. - PROPOSED
C.J. - CONSTRUCTION JOINT	PT - POINT OF TANGENCY
CLR. - CLEARANCE	CLR. - POINT OF VERTICAL CURVATURE
CMS - CONSTRUCTION AND	PVI - POINT OF VERTICAL INTERSECTION
MATERIAL SPECIFICATIONS	PVT - POINT OF VERTICAL TANGENCY
CONC. - CONCRETE	R. - RADIUS
CONSTR. - CONSTRUCTION	R.A. - REAR ABUTMENT
CONTR. - CONTRACTION	RF - RIGHT FORWARD
CU YD - CUBIC YARD	RT. - RIGHT
DIA. - DIAMETER	R/W - RIGHT OF WAY
E.F. - EACH FACE	SAN. - SANITARY
ELEV., EL. - ELEVATION	SER. - SERIES
EQ. - EQUAL	SHT. - SHEET
EX. - EXISTING	S.O. - SERIES OF
EXP. - EXPANSION	SPA. - SPACES OR SPACING
F.A. - FORWARD ABUTMENT	SR - STATE ROUTE
F.F. - FAR FACE	STA. - STATION
F.S. - FIELD SPICE	STD. - STANDARD
FT/FT - FOOT PER FOOT	STM. - STORM
FTG. - FOOTING	STR. - STRAIGHT
FWD. - FORWARD	TBM - TEMPORARY BENCH MARK
GALV. = GALVANIZED	TEMP. - TEMPORARY
GEN. - GENERAL	T.O.S. - TOE OF SLOPE
LF - LEFT FORWARD	T/PARAPET - TOE OF PARAPET
LT. - LEFT	T/T - TOE TO TOE
MAX. - MAXIMUM	TYP. - TYPICAL
MIN. - MINIMUM	U.G. - UNDERGROUND
MISC. - MISCELLANEOUS	VAR. - VARIES
MOT - MAINTENANCE OF TRAFFIC	VC - VERTICAL CURVE
N.F. - NEAR FACE	VERT. - VERTICAL
N.P.C.P.P. - NON-PERFORATED	W/O - WITHOUT
CORRUGATED	
PLASTIC PIPE	
NO./# - NUMBER	



DESIGN AGENCY

DESIGNER
GTF

REVIEWER
CAH 09/18/26

PROJECT ID
114671

SHEET	TOTAL
6	41

ESTIMATED QUANTITIES - STRUCTURE No.: HAM-71-0233 (01/IMS FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS		5	
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			100		5	
510	10001	10	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN			10		5	
511	34410	14	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			14			
512	10100	25	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	25					
512	74000	22	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	22					
513	10200	4045	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			4045			
513	21000	8	EACH	TRIMMING OF BEAM END			8			
514	00050	934	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			934			
514	00056	934	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			934			
514	00060	934	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			934			
514	00066	934	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			934			
514	00504	2	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			2			
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
516	11210	101	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			101			
516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	5	
518	51100	60	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS				60		
SPECIAL	51900100	220	SF	COMPOSITE FIBER WRAP SYSTEM	220					
519	11101	36	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			36		5	
SPECIAL	69098600	8	HOURL	SPECIAL - MISC.: DRAINAGE SYSTEM CLEANING, 36" AND UNDER				8	6	
848	10201	1407	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 2.75")			1407		5	
848	20000	1407	SY	SURFACE PREPARATION USING HYDRODEMOLITION			1407			
848	30201	31	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			31		5	
848	50000	49	SY	HAND CHIPPING			49			
848	50100	LS	LUMP	TEST SLAB			LS			
848	50320	1407	SY	EXISTING CONCRETE OVERLAY REMOVED (D = 1.75")			1407			

ESTIMATED QUANTITIES - STRUCTURE No.: HAM-42-0235R (01/IMS FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS		5	
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			100		5	
510	10001	10	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN			10		5	
511	34410	14	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			14			
513	10200	1712	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			1712			
513	21000	8	EACH	TRIMMING OF BEAM END			8			
514	00050	395	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			395			
514	00056	395	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			395			
514	00060	395	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			395			
514	00066	395	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			395			
514	00504	2	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			2			
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
516	11210	69	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			69			
518	51100	40	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS				40		
SPECIAL	69098600	8	HOURL	SPECIAL - MISC.: DRAINAGE SYSTEM CLEANING, 36" AND UNDER				8	6	
848	10201	1680	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 2.75")			1680		5	
848	20000	1680	SY	SURFACE PREPARATION USING HYDRODEMOLITION			1680			
848	30201	19	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			19		5	
848	50000	34	SY	HAND CHIPPING			34			
848	50100	LS	LUMP	TEST SLAB			LS			
848	50320	1680	SY	EXISTING CONCRETE OVERLAY REMOVED (D = 1.75")			1680			

STRUCTURE ESTIMATED QUANTITIES - 1

SFN

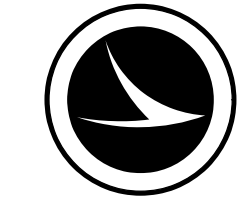
DESIGN AGENCY

DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH MM-DD-YY	

PROJECT ID	
114671	
SUBSET	TOTAL
1	2
SHEET	TOTAL
7	41

ESTIMATED QUANTITIES - STRUCTURE No.: HAM-71-0233 (01/IMS FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS		5	
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			100		5	
510	10001	10	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN			10		5	
511	34410	14	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			14			
512	10100	25	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	25					
512	74000	22	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	22					
513	10200	4045	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			4045			
513	21000	8	EACH	TRIMMING OF BEAM END			8			
514	00050	934	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			934			
514	00056	934	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			934			
514	00060	934	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			934			
514	00066	934	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			934			
514	00504	2	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			2			
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
516	11210	101	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			101			
516	47001	LS	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	5	
518	51100	60	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS				60		
SPECIAL	51900100	220	SF	COMPOSITE FIBER WRAP SYSTEM	220					
519	11101	36	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			36		5	
SPECIAL	69098600	8	HOURL	SPECIAL - MISC.: DRAINAGE SYSTEM CLEANING, 36" AND UNDER				8	6	
848	10201	1407	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 2.75")			1407		5	
848	20000	1407	SY	SURFACE PREPARATION USING HYDRODEMOLITION			1407			
848	30201	31	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			31		5	
848	50000	49	SY	HAND CHIPPING			49			
848	50100	LS	LUMP	TEST SLAB			LS			
848	50320	1407	SY	EXISTING CONCRETE OVERLAY REMOVED (D = 1.75")			1407			

ESTIMATED QUANTITIES - STRUCTURE No.: HAM-42-0235R (01/IMS FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS		5	
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			100		5	
510	10001	10	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN			10		5	
511	34410	14	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			14			
513	10200	1712	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			1712			
513	21000	8	EACH	TRIMMING OF BEAM END			8			
514	00050	395	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			395			
514	00056	395	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			395			
514	00060	395	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			395			
514	00066	395	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			395			
514	00504	2	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			2			
514	10000	1	EACH	FINAL INSPECTION REPAIR			1			
516	11210	69	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			69			
518	51100	40	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS				40		
SPECIAL	69098600	8	HOURL	SPECIAL - MISC.: DRAINAGE SYSTEM CLEANING, 36" AND UNDER				8	6	
848	10201	1680	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T = 2.75")			1680		5	
848	20000	1680	SY	SURFACE PREPARATION USING HYDRODEMOLITION			1680			
848	30201	19	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			19		5	
848	50000	34	SY	HAND CHIPPING			34			
848	50100	LS	LUMP	TEST SLAB			LS			
848	50320	1680	SY	EXISTING CONCRETE OVERLAY REMOVED (D = 1.75")			1680			



DESIGNER
GTF

CHECKER
DLT

REVIEWER
CAH MM-DD-YY

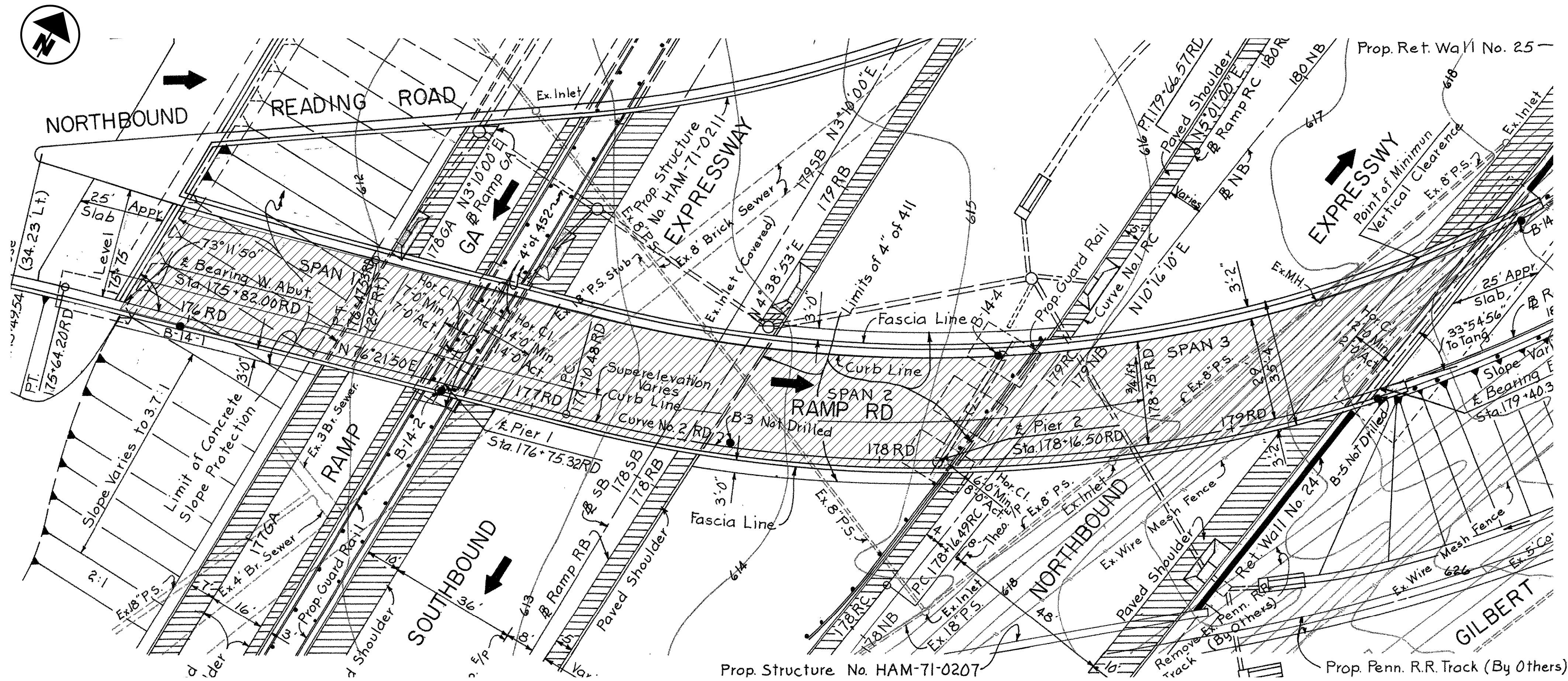
PROJECT ID
114671

SUBSET
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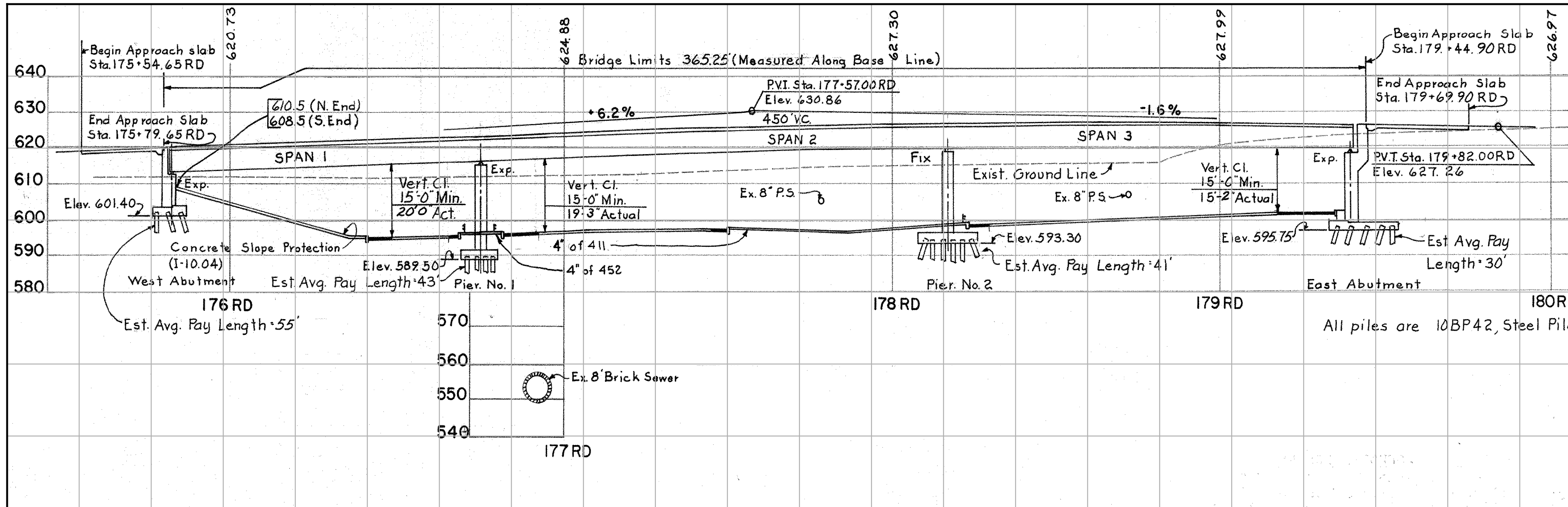
TOTAL
2

SHEET
7

TOTAL
41



PLAN



PROFILE ALONG B

NOTES

DETAILS ON THIS SITE PLAN SHEET ARE FROM ARCHIVED PLANS AND SHOULD BE USED FOR REFERENCE ONLY.

DESIGN TRAFFIC

IR-71

2028 ADT = 106,000 2028 ADTT = 12,720
2048 ADT = 109,000 2048 ADTT = 13,080

DIRECTIONAL DISTRIBUTION = 70%

DESIGN FUNCTIONAL CLASSIFICATION: 01 INTERSTATE (URBAN)

RAMP FROM NB US 42 TO NB IR 71

2028 ADT = 6,200 2028 ADTT = 186
2048 ADT = 6,300 2048 ADTT = 189

DIRECTIONAL DISTRIBUTION = 100%

DESIGN FUNCTIONAL CLASSIFICATION: 01 INTERSTATE (URBAN)

LEGEND

- 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
- 20'-0" ACTUAL MINIMUM VERTICAL CLEARANCE (RAMP LANE)
- 19'-3" ACTUAL MINIMUM VERTICAL CLEARANCE (SOUTHBOUND IR 75)
- 15'-2" ACTUAL MINIMUM VERTICAL CLEARANCE (NORTHBOUND IR 75)
- LIMITS OF ITEM 848, SUPERPLASTICIZED DENSE CONCRETE OVERLAY

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL GIRDER WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 93.32'±, 141.18'± & 123.85'± C/C BRGS. MEASURED ALONG @ ROADWAY: 29'-0"± F/F CURBS

LOADING: HS-20

SKIEW: VARIES, SEE PLAN

WEARING SURFACE: 1"± MONOLITHIC CONCRETE

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

ALIGNMENT: TANGENT 7 14°00'00" CL

CROWN: VARIES

STRUCTURE FILE NUMBER: 3106756

DATE BUILT: 1966

DISPOSITION: SEE PROPOSED WORK

COORDINATES: LATITUDE 39° 06' 50.00"
LONGITUDE -84° 30' 2.30"

PROPOSED WORK

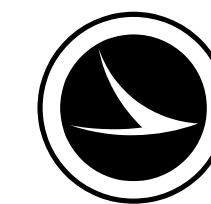
- REPLACE THE CONCRETE OVERLAY USING HYDRODEMOLITION WITH 2.75" THICK SDC OVERLAY WITH MACRO FIBERS PER SS 848.
- REPLACE THE ELASTOMERIC EXPANSION JOINTS, INCLUDING 2.5 FEET OF DECK AND TOP BACKWALL TO THE APPROACH SLAB SEAT, WITH A NEW ELASTOMERIC STRIP SEAL AND JOINT ARMOR. TRIM BEAM ENDS, REPLACE CROSS FRAMES, AND ATTACH THE NEW CROSS FRAMES TO THE BEARING STIFFENERS. PAINT THE END 2 FEET OF THE BRIDGE INCLUDING BEARINGS. REPAIR HOLES IN BEAM ENDS TO REMAIN BEYOND STIFFENER.
- REPLACE DOWNSPOUTS TO ELIMINATE 90° BENDS. INCLUDE A PAY ITEM TO CLEAN THE SYSTEM FROM THE GROUND TO THE FIRST MANHOLE/CATCH BASIN.
- PATCH THE EXISTING ABUTMENTS WITH 519 PATCHING. PLACE FRP OVER REPAIRED CONCRETE AREAS UNDER BEARINGS EXTENDING 3 FEET PAST REPAIR TO PROVIDE CONFINEMENT. NOTIFY STRUCTURES DEPARTMENT TO IDENTIFY REPAIR AREAS.
- UPGRADE APPROACH GUARDRAIL TO CURRENT STANDARDS.

SITE PLAN

BRIDGE No.: HAM-71-0233

RAMP TO NORTHBOUND IR 71 OVER IR 71

SFN 3106756
DESIGN AGENCY



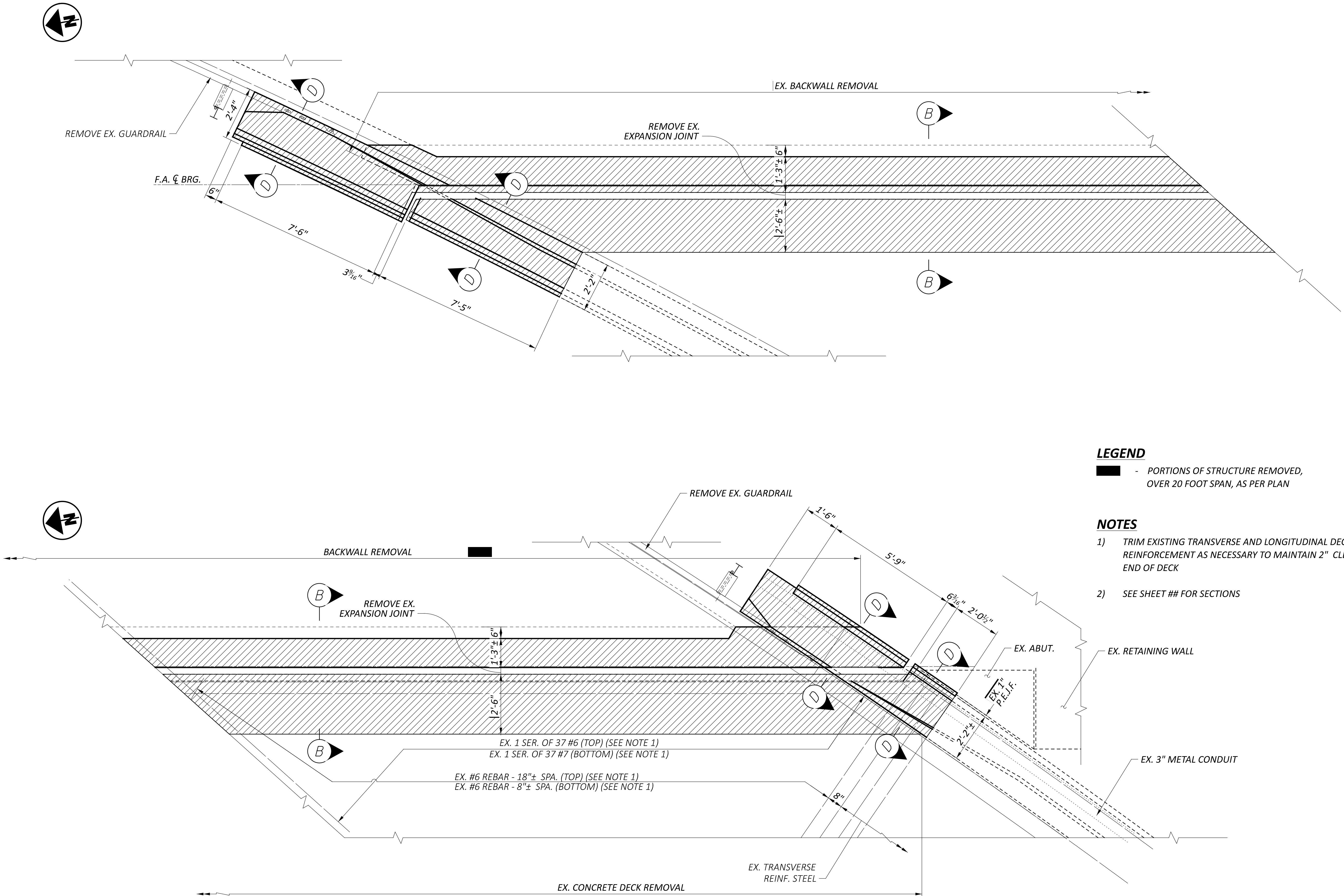
DESIGNER GTF
CHECKER DLT

REVIEWER
CAH 09/18/26

PROJECT ID 114671

SUBSET 1 TOTAL 14

SHEET 9 TOTAL 41



LEGEND

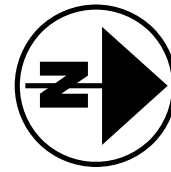
■ - PORTIONS OF STRUCTURE REMOVED,
OVER 20 FOOT SPAN, AS PER PLAN

NOTES

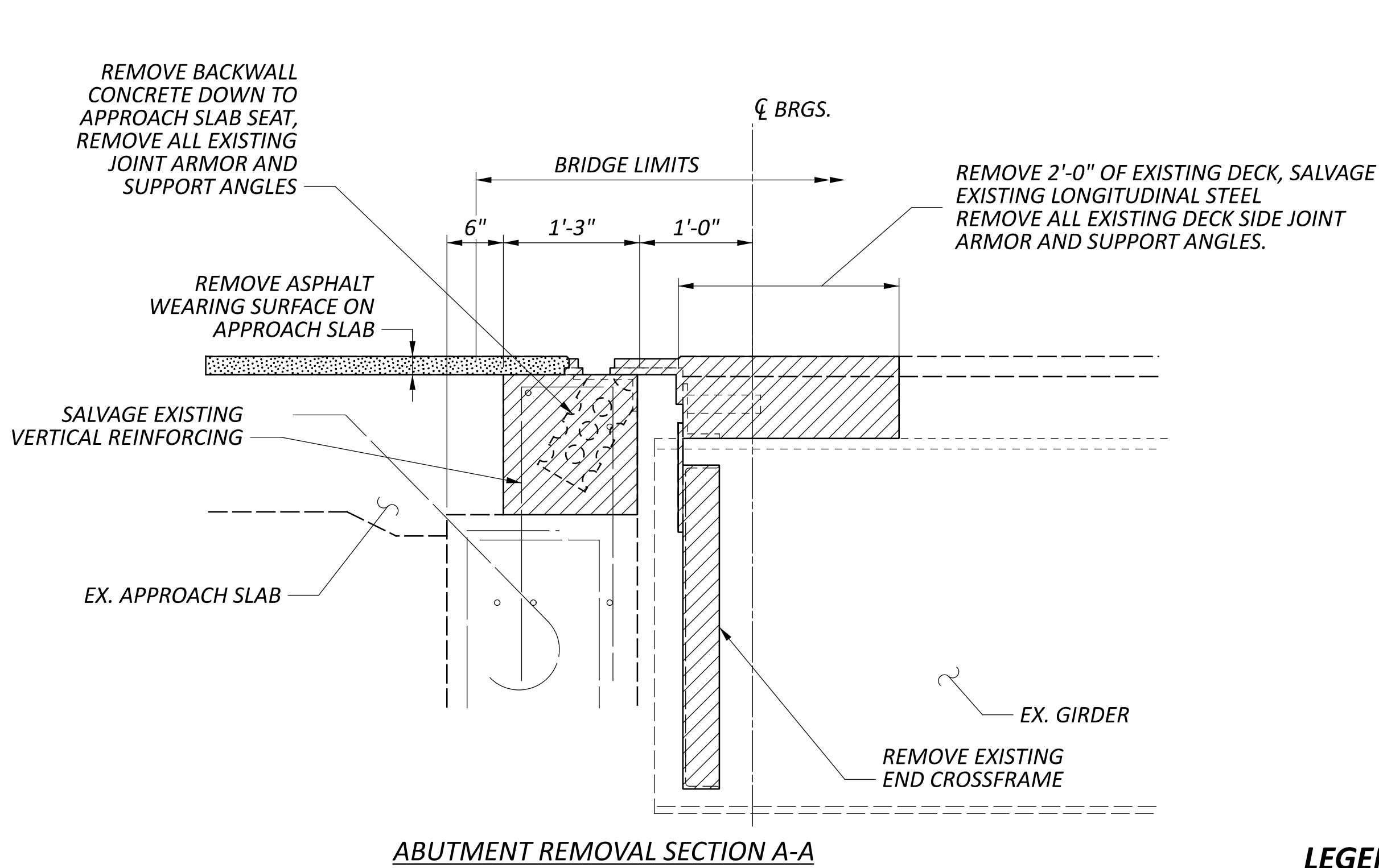
- 1) TRIM EXISTING TRANSVERSE AND LONGITUDINAL DECK REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEARANCE TO END OF DECK
- 2) SEE SHEET ## FOR SECTIONS

REAR ABUTMENT AND DECK REMOVAL DETAILS
BRIDGE No.: HAM-71-0233
RAMP TO NORTHBOUND IR 71 OVER IR 71

SFN	
3106756	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
2	14
SHEET	TOTAL
10	41

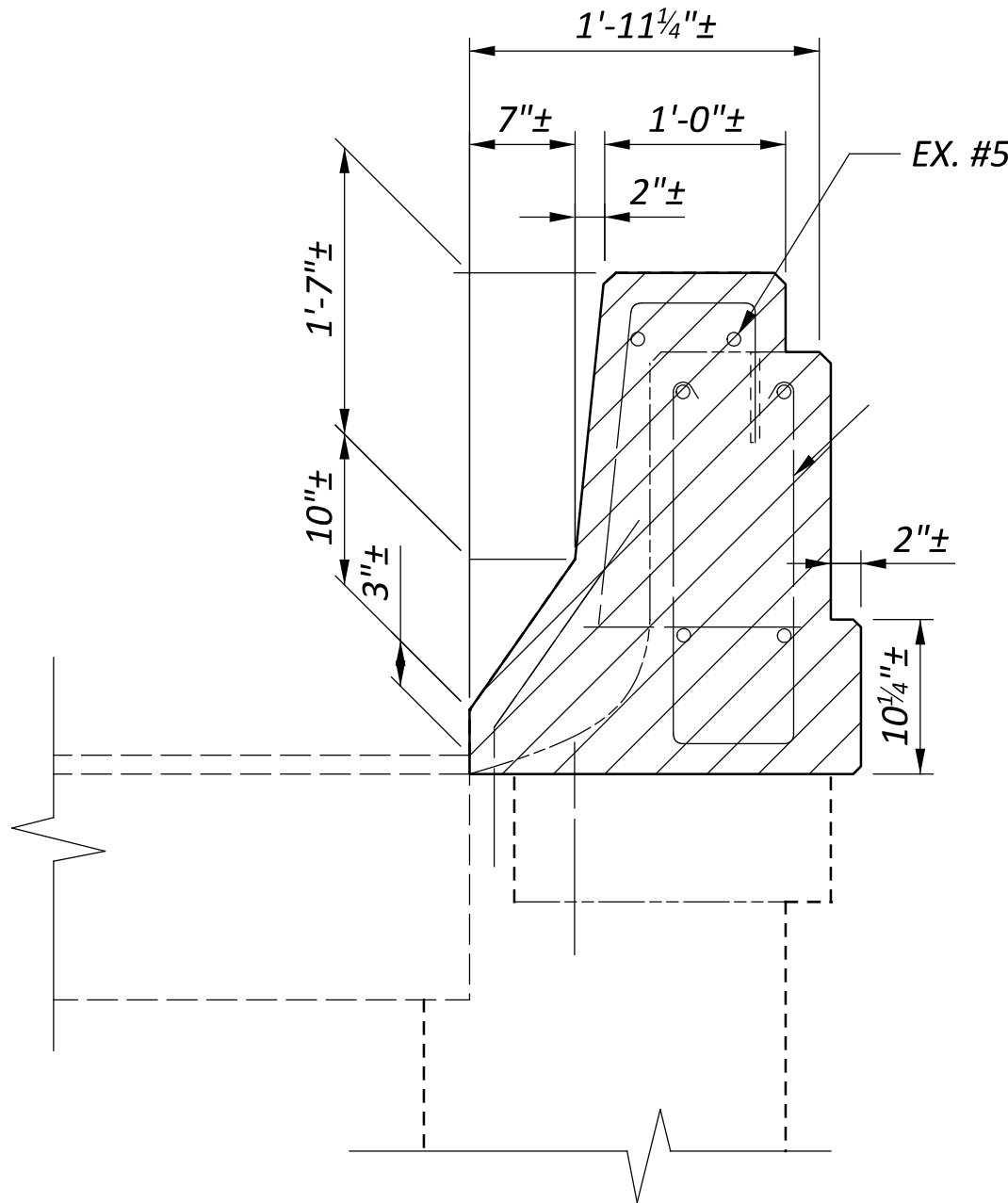
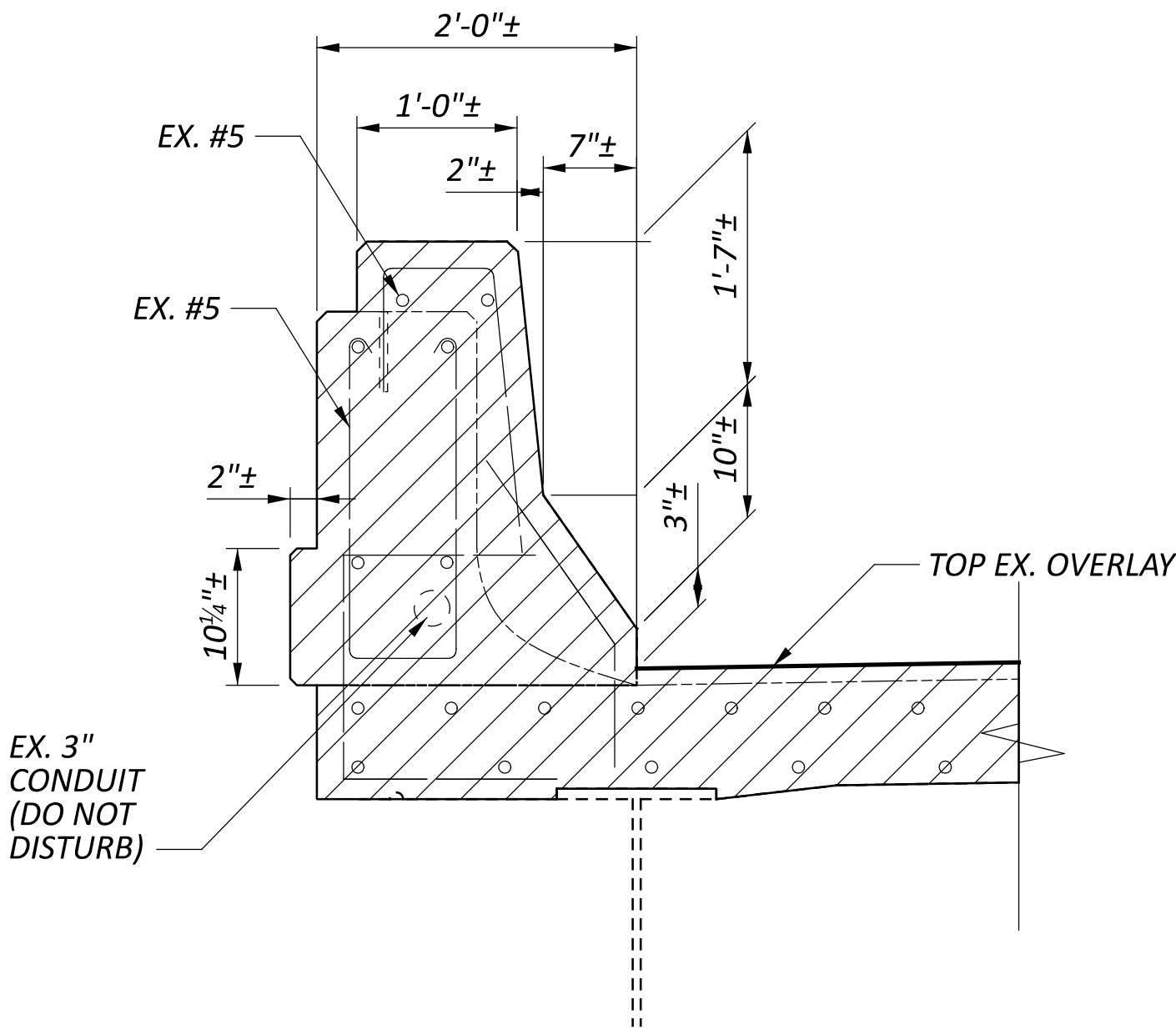
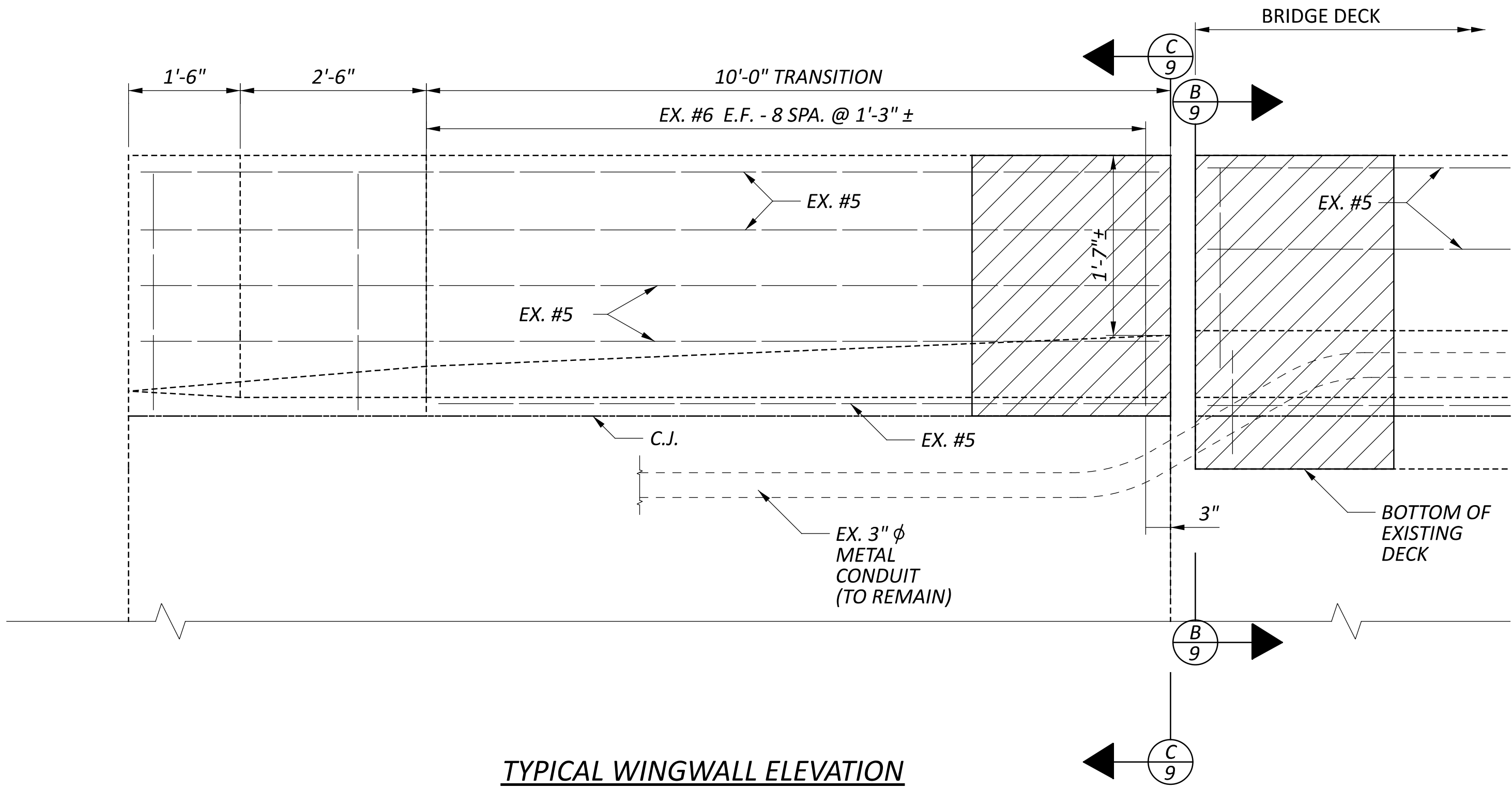


SFN		3106756	
DESIGN AGENCY			
DESIGNER		CHECKER	
GTF		DLT	
REVIEWER			
CAH 09/18/26			
PROJECT ID			
114671			
SUBSET		TOTAL	
3		14	
SHEET		TOTAL	
11		41	



LEGEND

- PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

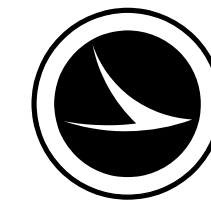


ABUTMENT AND BRIDGE RAILING REMOVAL SECTIONS

BRIDGE No.: HAM-71-0233
RAMP TO NORTHBOUND IR 71 OVER IR 71

SFN
3106756

DESIGN AGENCY



DESIGNER
GTF

CHECKER
DLT

REVIEWER
CAH 09/18/26

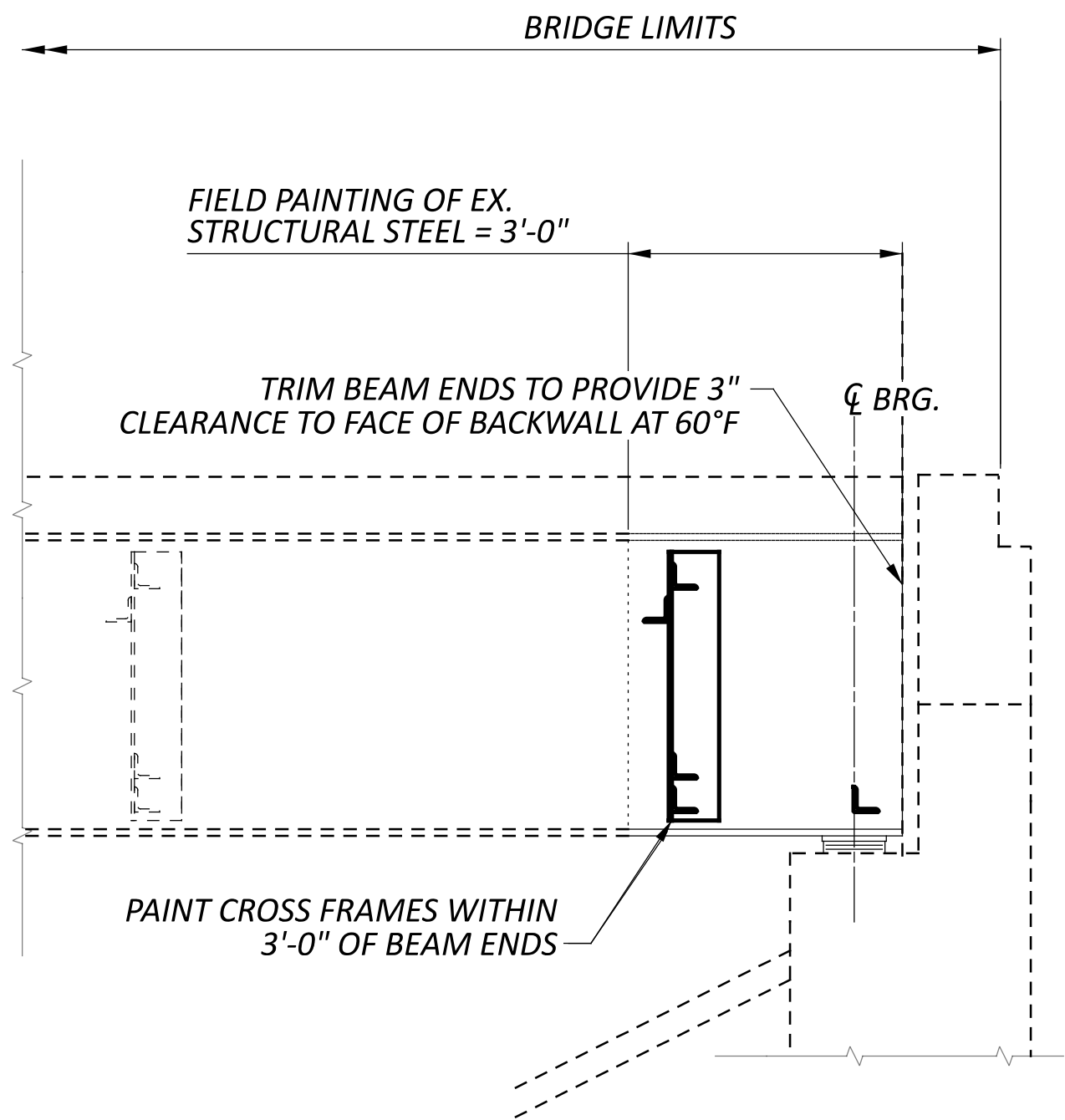
PROJECT ID
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SUBSET
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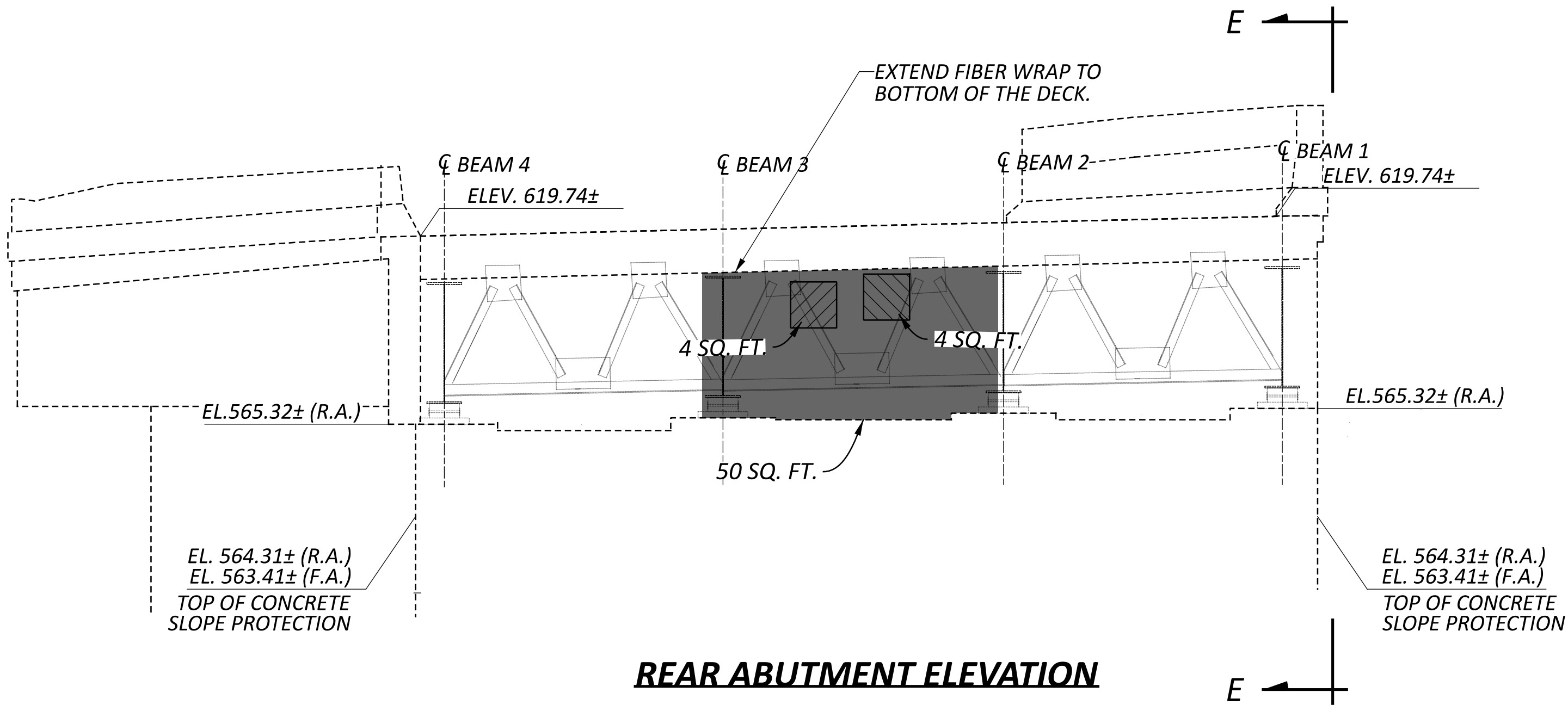
TOTAL
14

SHEET
12

TOTAL
41



SECTION E-E



SUMMARY OF REPAIR AREAS				
PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN JUNE OF 2025. EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD FOR FINAL PAY QUANTITIES.				
TYPE		MEASURED QUANTITIES	ESTIMATING FACTOR*	ESTIMATED QUANTITIES
ABUTMENT PATCHING		8 SQ. FT.	1.5	12 SQ. FT.
COMPOSITE FIBER WRAP				50 SQ. FT.
SEALING WITH EPOXY-URETHANE				50 SQ. FT.
* - ESTIMATED QUANTITIES HAVE BEEN INCREASED BY 50% OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.				

LEGEND

- AREA TO BE REPAIRED WITH ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN
- LIMITS OF SINGLE LAYER OF FIBER WRAP PER ITEM 519 - SPECIAL COMPOSITE FIBER WRAP SYSTEM

NOTES

- ALL DIMENSIONS ARE ±.
- PLACE COMPOSITE FIBER WRAP OVER REPAIRED CONCRETE AREAS. EXTEND THE FIBER WRAP 3'-0" BEYOND EACH SIDE OF THE LIMITS OF THE REPAIR UNLESS OTHERWISE NOTED IN THE PLANS.
- AN ADDITIONAL 50% CONTINGENCY HAS BEEN ADDED TO THE FIELD MEASURED PATCHING AREAS TO ALLOW FOR ADDITIONAL AREAS OF DETERIORATION. THE FINAL DIMENSIONS AND LOCATION OF THE DETERIORATED AREAS TO BE PATCHED SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD FOR THE FINAL PAYMENT.

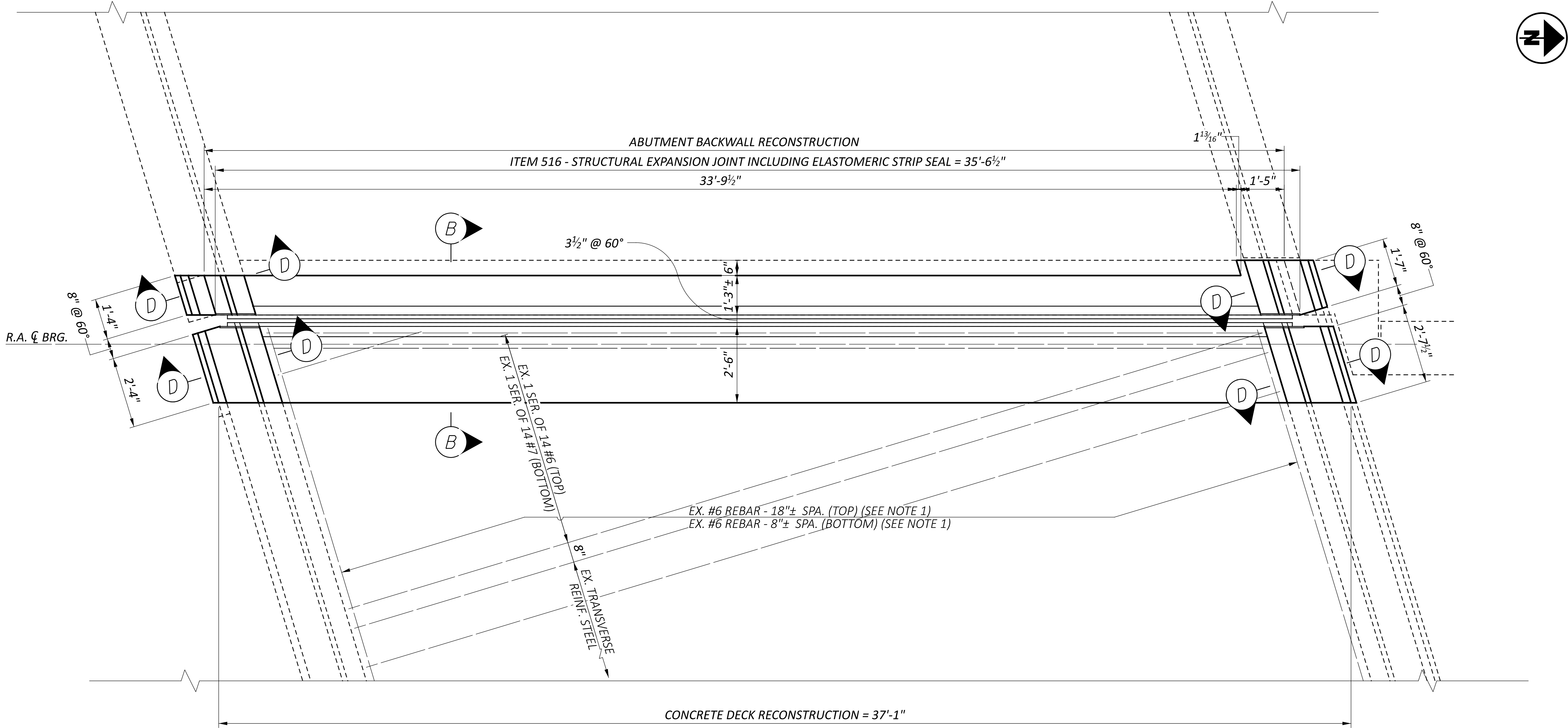
FIELD PAINTING OF STRUCTURAL STEEL CALCULATIONS

GIRDER	SIZE	LOCATION	PERIMETER (FT)	LENGTH (FT)	SURFACE AREA (SQ FT)
G-1	BUILT UP	R.A.	16.3	3.0	48.9
G-2	BUILT UP	R.A.	16.3	3.0	48.9
G-3	BUILT UP	R.A.	16.3	3.0	48.9
G-4	BUILT UP	R.A.	16.3	3.0	48.9
TOTAL					196

CROSSFRAME	SIZE	LOCATION	QUANTITY	PERIMETER (FT)	TOTAL LENGTH-DIAGONAL MEMBERS (FT)	TOTAL LENGTH-HORIZONTAL MEMBER (FT)	SURFACE AREA (SQ FT)
END CROSSFRAME	L4x4x3/8	F.A.	3	1.3	41.5	19.6	238.2
STIFFENER PLATE	3/8" x 54"	F.A.	8	-	-	-	69.2
INTERMEDIATE CROSSFRAME	L4x4x3/8	F.A.	3.0	1.3	22.1	19.8	163.1
LARGE PLATE	3/8"	F.A.	9.0	-	-	-	45.0
SMALL PLATE	3/8"	F.A.	15.0	-	-	-	30.0
BEARING	-	F.A.	4.0				14.0
TOTAL							560

- APPLY EPOXY URETHANE SEALER TO ALL AREAS THAT HAVE BEEN PATCHED ONLY. USE FEDERAL COLOR NO. 17778.
- EXISTING ELEVATIONS HAVE BEEN OBTAINED FROM EXISTING PLANS AND FIELD MEASUREMENTS AND ARE APPROXIMATE INDICATORS OF CURRENT CONDITIONS AND PROPOSED WORK. ALL DIMENSIONS MUST BE FIELD VERIFIED BEFORE ORDERING MATERIALS TO ENSURE PROPER FIT WITH THE EXISTING STRUCTURE.



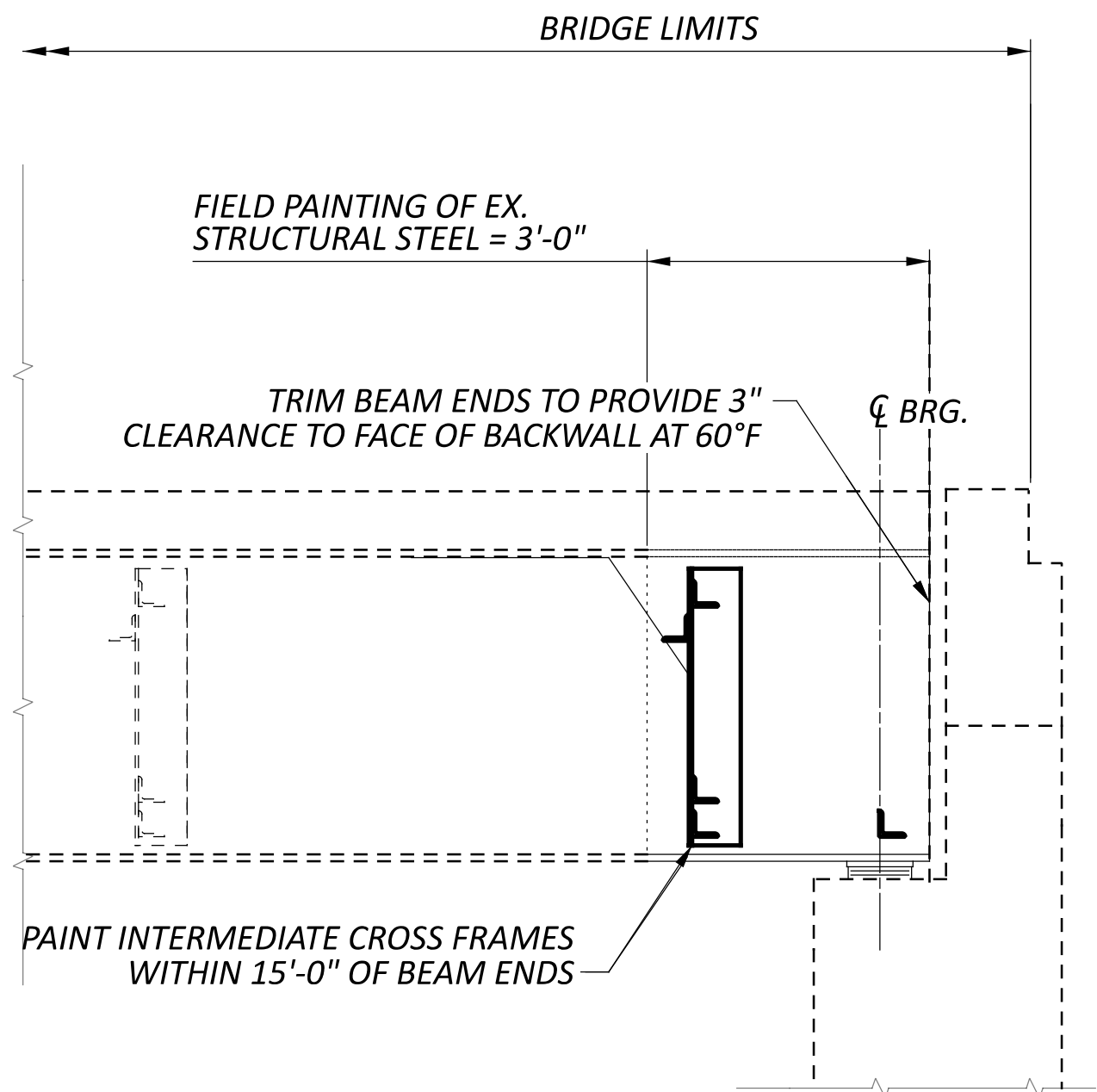


NOTES

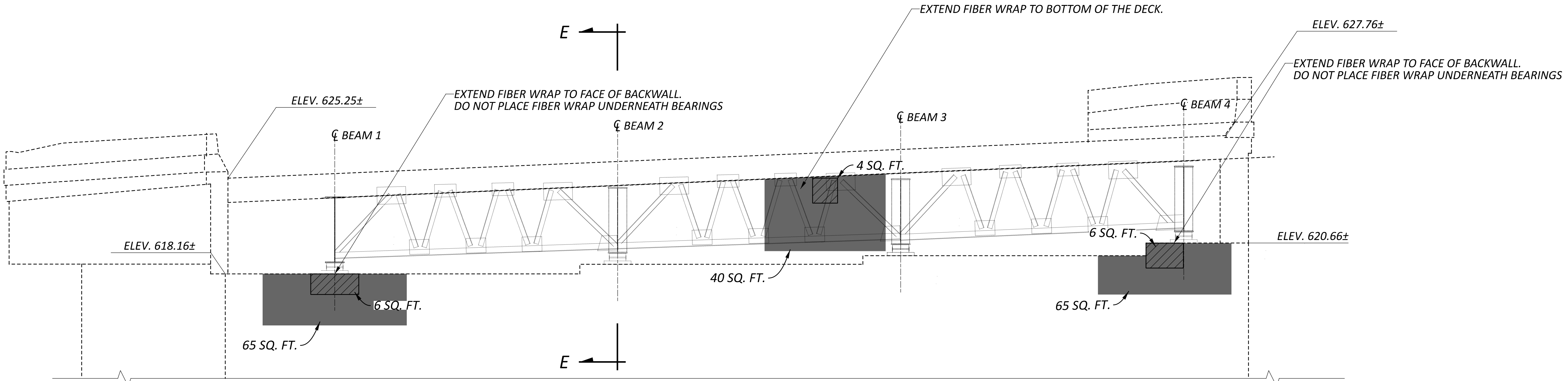
- 1) TRIM EXISTING LONGITUDINAL DECK REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEARANCE TO END OF DECK
- 2) SEE SHEET ## FOR SECTIONS

REAR ABUTMENT AND PARTIAL DECK PLAN
BRIDGE No.: HAM-71-0233
RAMP TO NORTHBOUND IR 71 OVER IR 71

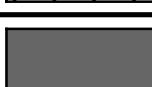
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DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
6	14
SHEET	TOTAL
14	41



SECTION E-E



FORWARD ABUTMENT ELEVATION

SUMMARY OF REPAIR AREAS				
PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN JUNE OF 2025.				
EXACT DIMENSIONS AND LOCATIONS OF REPAIRS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD FOR FINAL PAY QUANTITIES.				
TYPE		MEASURED QUANTITIES	ESTIMATING FACTOR*	ESTIMATED QUANTITIES
ABUTMENT PATCHING		16 SQ. FT.	1.5	24 SQ. FT.
COMPOSITE FIBER WRAP				170 SQ. FT.
SEALING WITH EPOXY-URETHANE				170 SQ. FT.
* - ESTIMATED QUANTITIES HAVE BEEN INCREASED BY 50% OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.				

LEGEND

- AREA TO BE REPAIRED WITH ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN
- LIMITS OF SINGLE LAYER OF FIBER WRAP PER ITEM 519 - SPECIAL COMPOSITE FIBER WRAP SYSTEM

NOTES

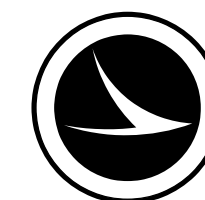
- ALL DIMENSIONS ARE ±.
- PLACE COMPOSITE FIBER WRAP OVER REPAIRED CONCRETE AREAS. EXTEND THE FIBER WRAP 3'-0" BEYOND EACH SIDE OF THE LIMITS OF THE REPAIR UNLESS OTHERWISE NOTED IN THE PLANS.
- AN ADDITIONAL 50% CONTINGENCY HAS BEEN ADDED TO THE FIELD MEASURED PATCHING AREAS TO ALLOW FOR ADDITIONAL AREAS OF DETERIORATION. THE FINAL DIMENSIONS AND LOCATION OF THE DETERIORATED AREAS TO BE PATCHED SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER IN THE FIELD FOR THE FINAL PAYMENT.

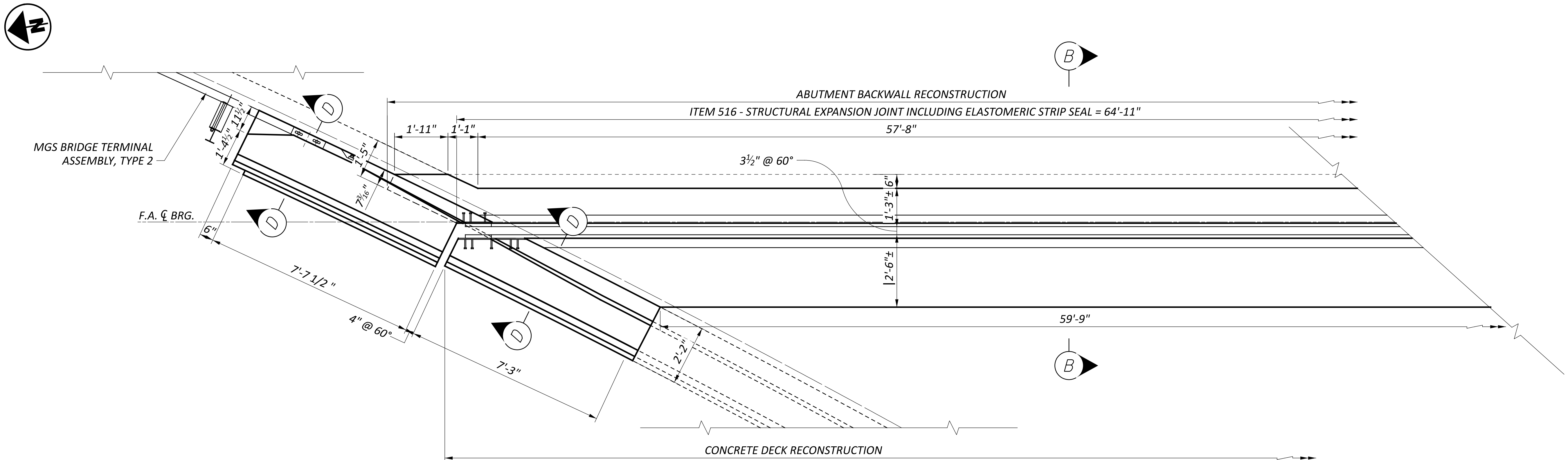
FIELD PAINTING OF STRUCTURAL STEEL CALCULATIONS

GIRDER	SIZE	LOCATION	PERIMETER (FT)	LENGTH (FT)	SURFACE AREA (SQ FT)
G-1	BUILT UP	R.A.	16.3	3.0	48.9
G-2	BUILT UP	R.A.	16.3	3.0	48.9
G-3	BUILT UP	R.A.	16.3	3.0	48.9
G-4	BUILT UP	R.A.	16.3	3.0	48.9
TOTAL					196

CROSSFRAME	SIZE	LOCATION	QUANTITY	PERIMETER (FT)	TOTAL LENGTH-DIAGONAL MEMBERS (FT)	TOTAL LENGTH-HORIZONTAL MEMBER (FT)	SURFACE AREA (SQ FT)
END CROSSFRAME	L4x4x3/8	F.A.	3	1.3	41.5	19.6	238.2
STIFFENER PLATE	3/8" x 54"	F.A.	8	-	-	-	69.2
INTERMEDIATE CROSSFRAME	L4x4x3/8	F.A.	3.0	1.3	22.1	19.8	163.1
LARGE PLATE	3/8"	F.A.	9.0	-	-	-	45.0
SMALL PLATE	3/8"	F.A.	15.0	-	-	-	30.0
BEARING	-	F.A.	4.0				14.0
TOTAL							560

- APPLY EPOXY URETHANE SEALER TO ALL AREAS THAT HAVE BEEN PATCHED ONLY. USE FEDERAL COLOR NO. 17778.
- BEAM 1 & BEAM 4 AT THE FORWARD ABUTMENT SHALL BE TEMPORARILY SUPPORTED DURING THE PATCHING REPAIR UNDER BEAM 1 & BEAM 4. COST SHALL BE INCLUDED WITH ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.
- EXISTING ELEVATIONS HAVE BEEN OBTAINED FROM EXISTING PLANS AND FIELD MEASUREMENTS AND ARE APPROXIMATE INDICATORS OF CURRENT CONDITIONS AND PROPOSED WORK. ALL DIMENSIONS MUST BE FIELD VERIFIED BEFORE ORDERING MATERIALS TO ENSURE PROPER FIT WITH THE EXISTING STRUCTURE.

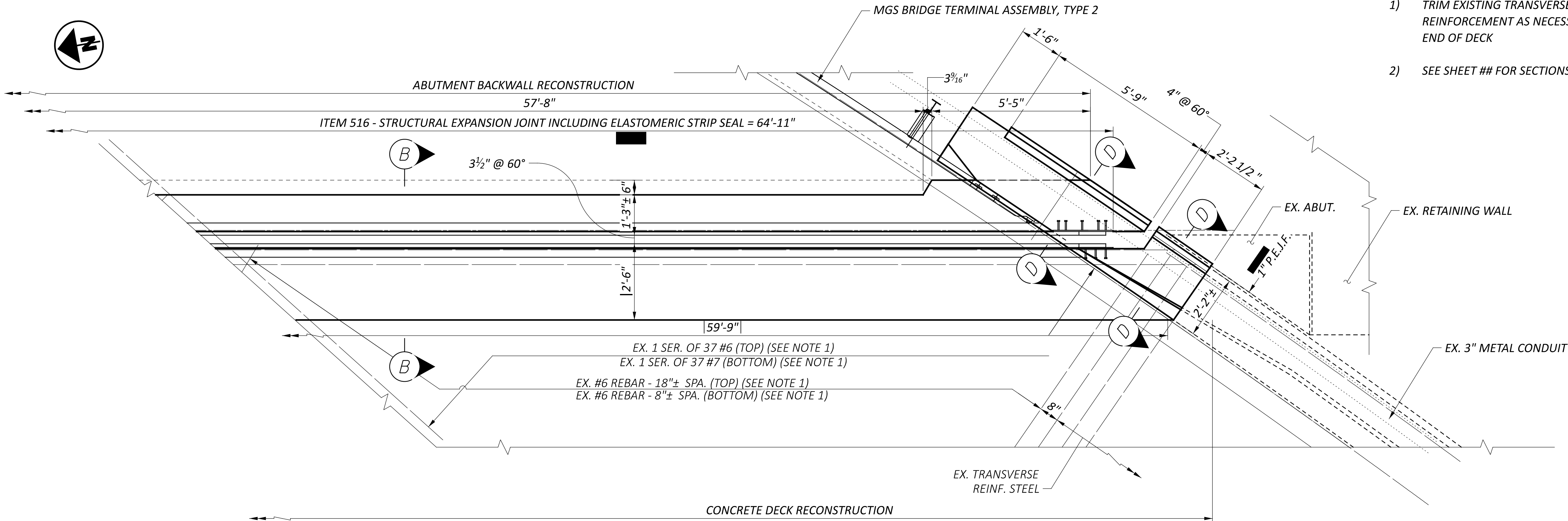




FORWARD ABUTMENT AND DECK PARTIAL PLAN

NOTES

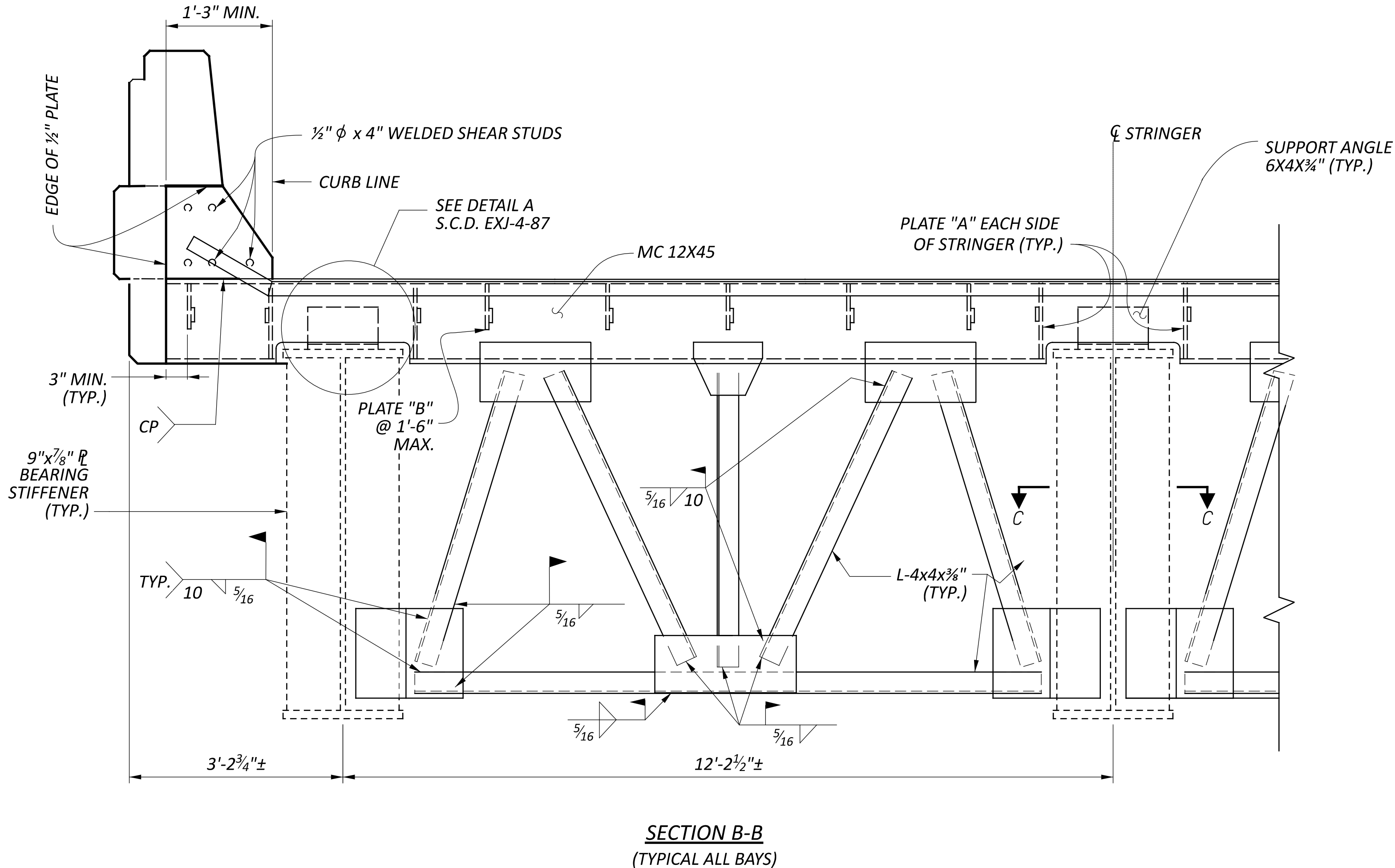
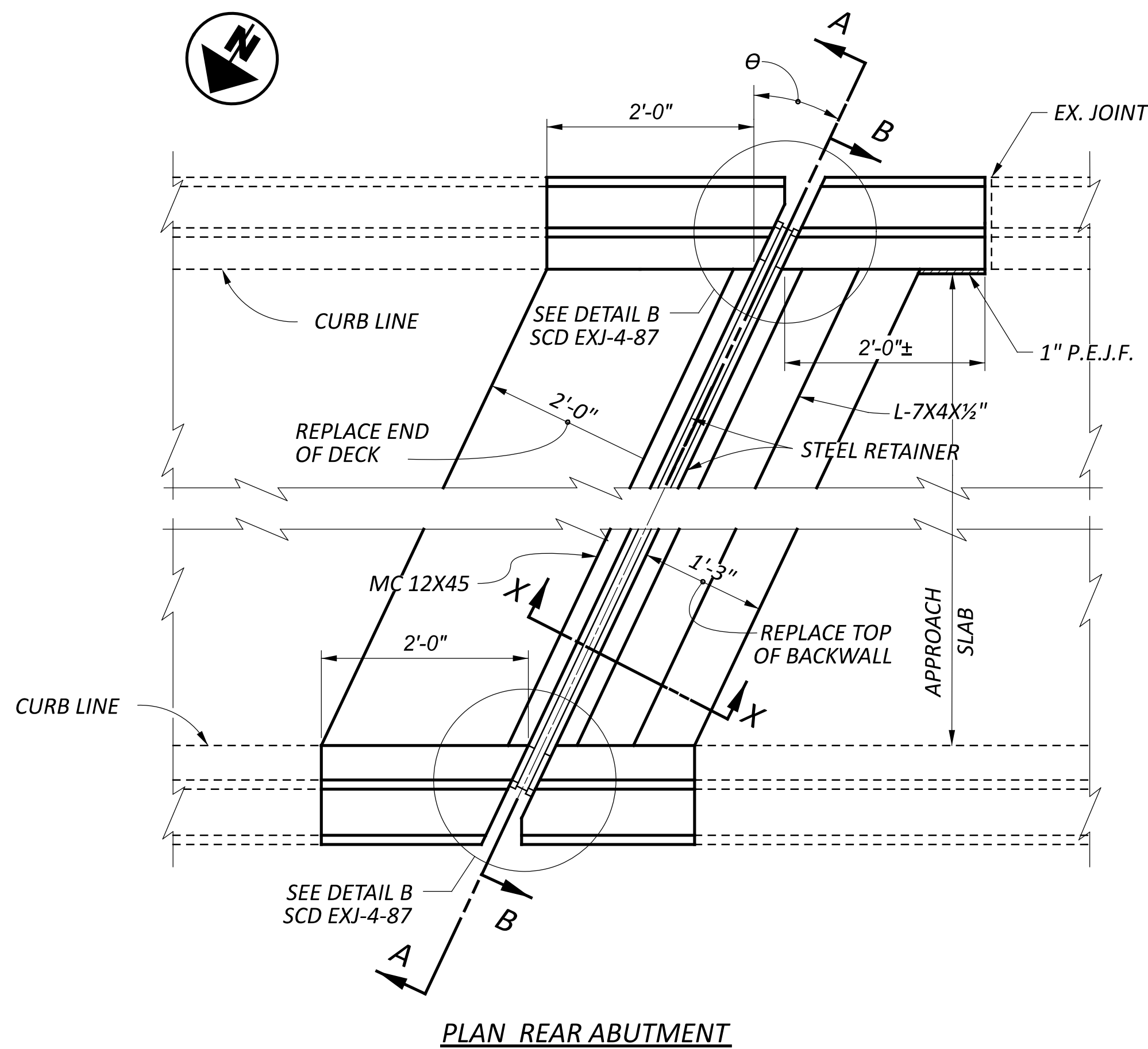
- 1) TRIM EXISTING TRANSVERSE AND LONGITUDINAL DECK REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEARANCE TO END OF DECK
- 2) SEE SHEET ## FOR SECTIONS



FORWARD ABUTMENT AND DECK PARTIAL PLAN

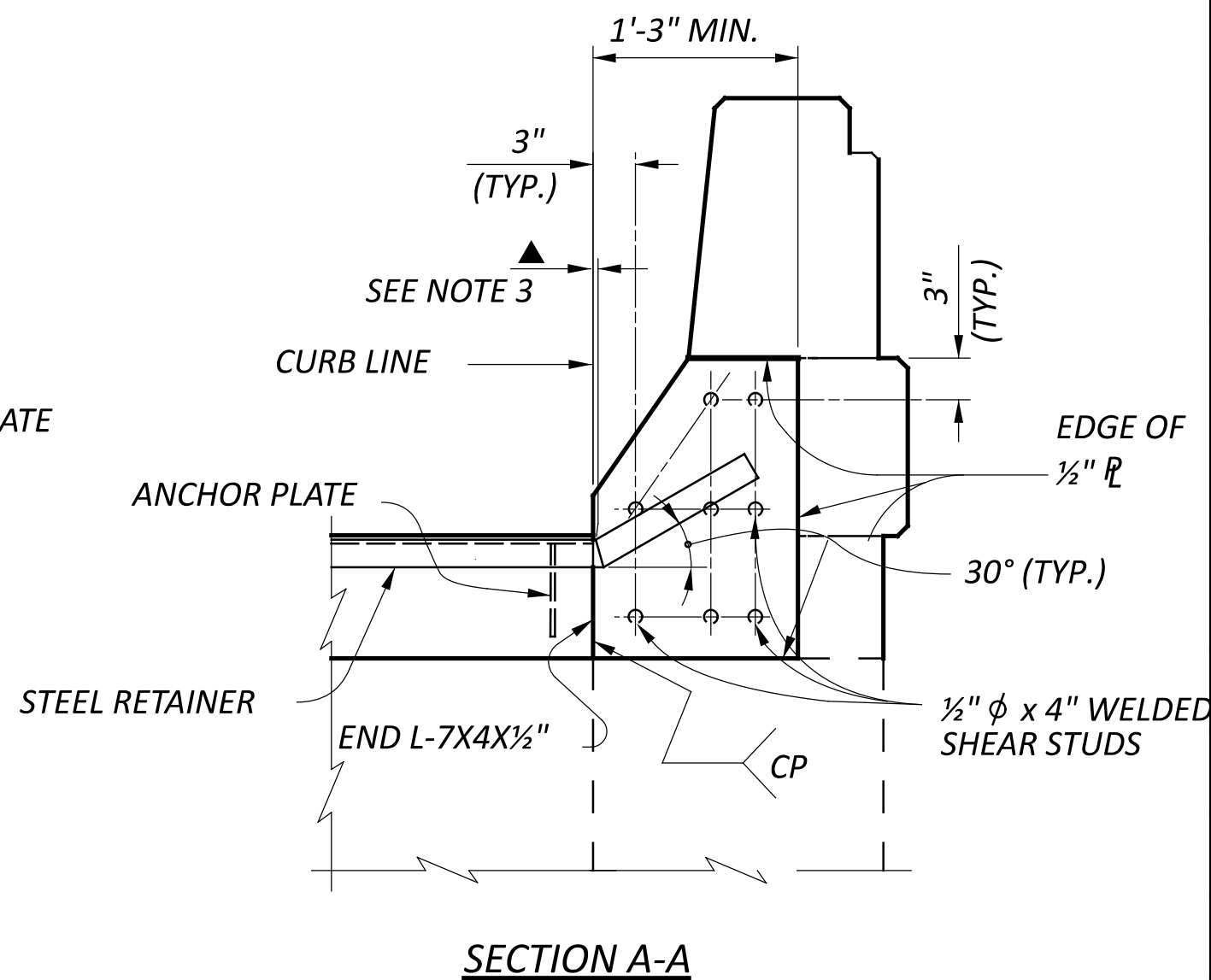
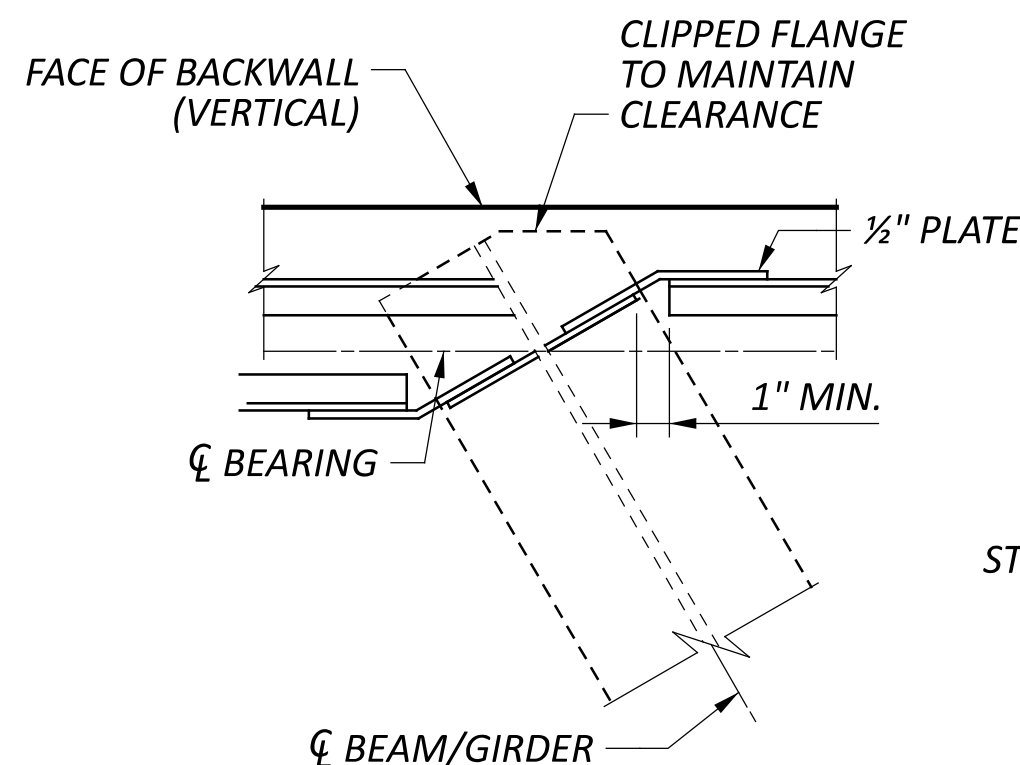
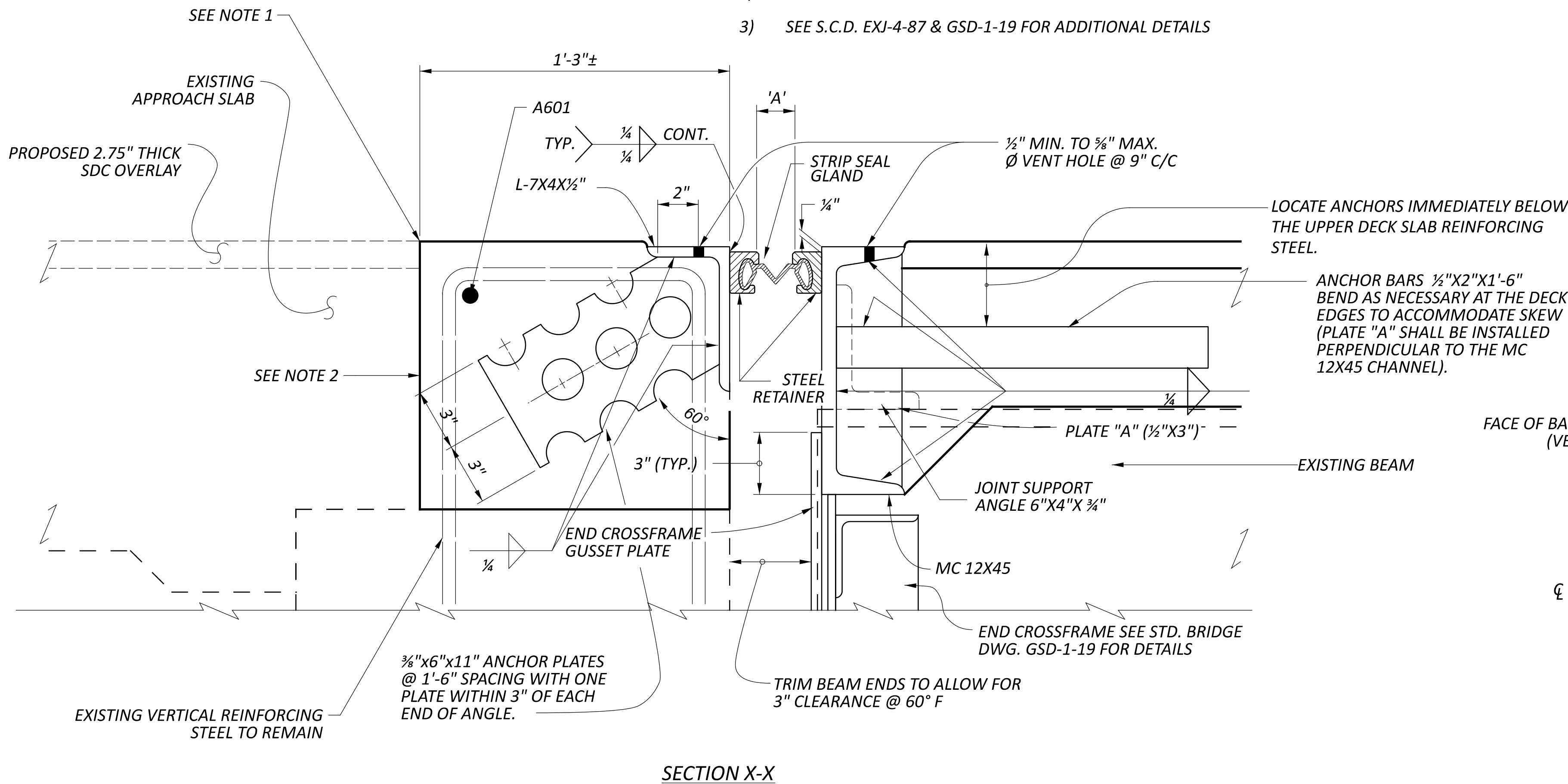
REAR ABUTMENT AND PARTIAL DECK PLAN
BRIDGE No.: HAM-71-0233
RAMP TO NORTHBOUND IR 71 OVER IR 71

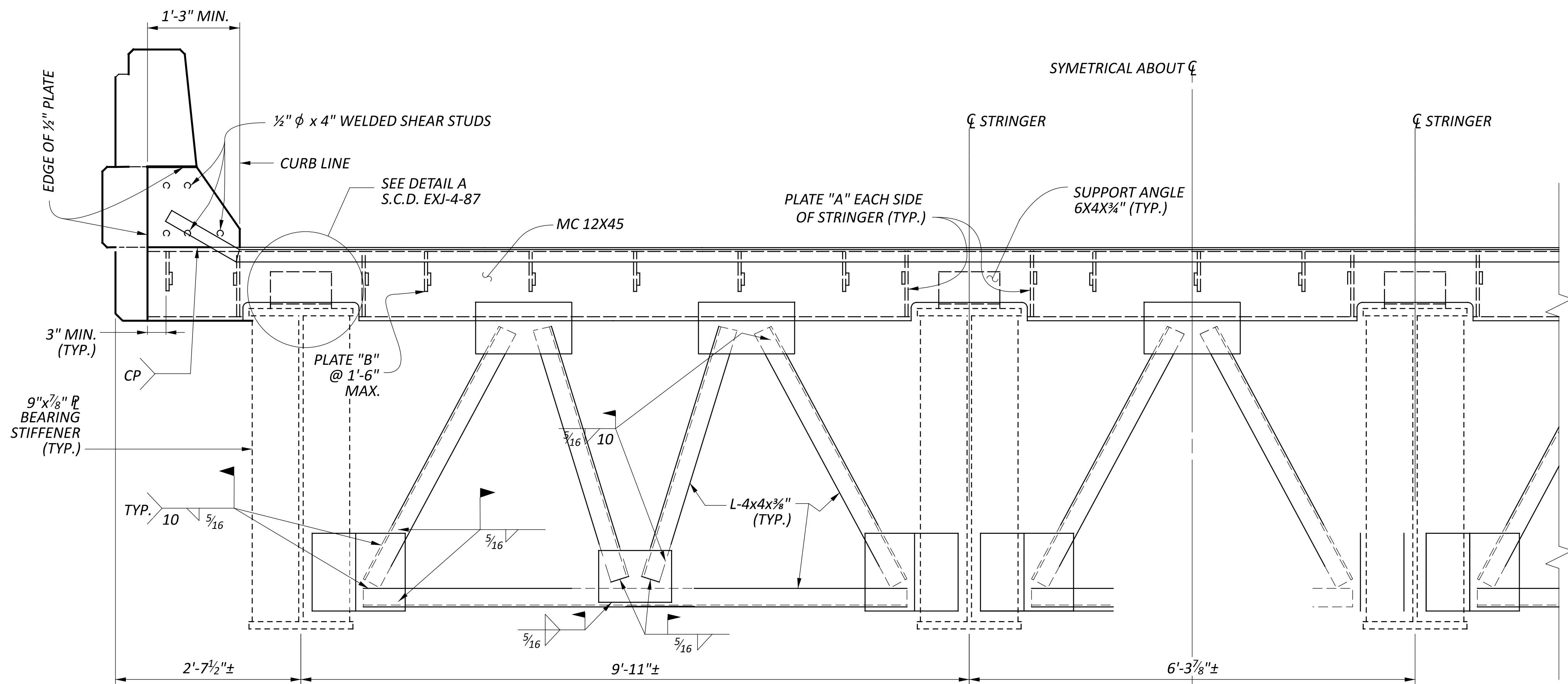
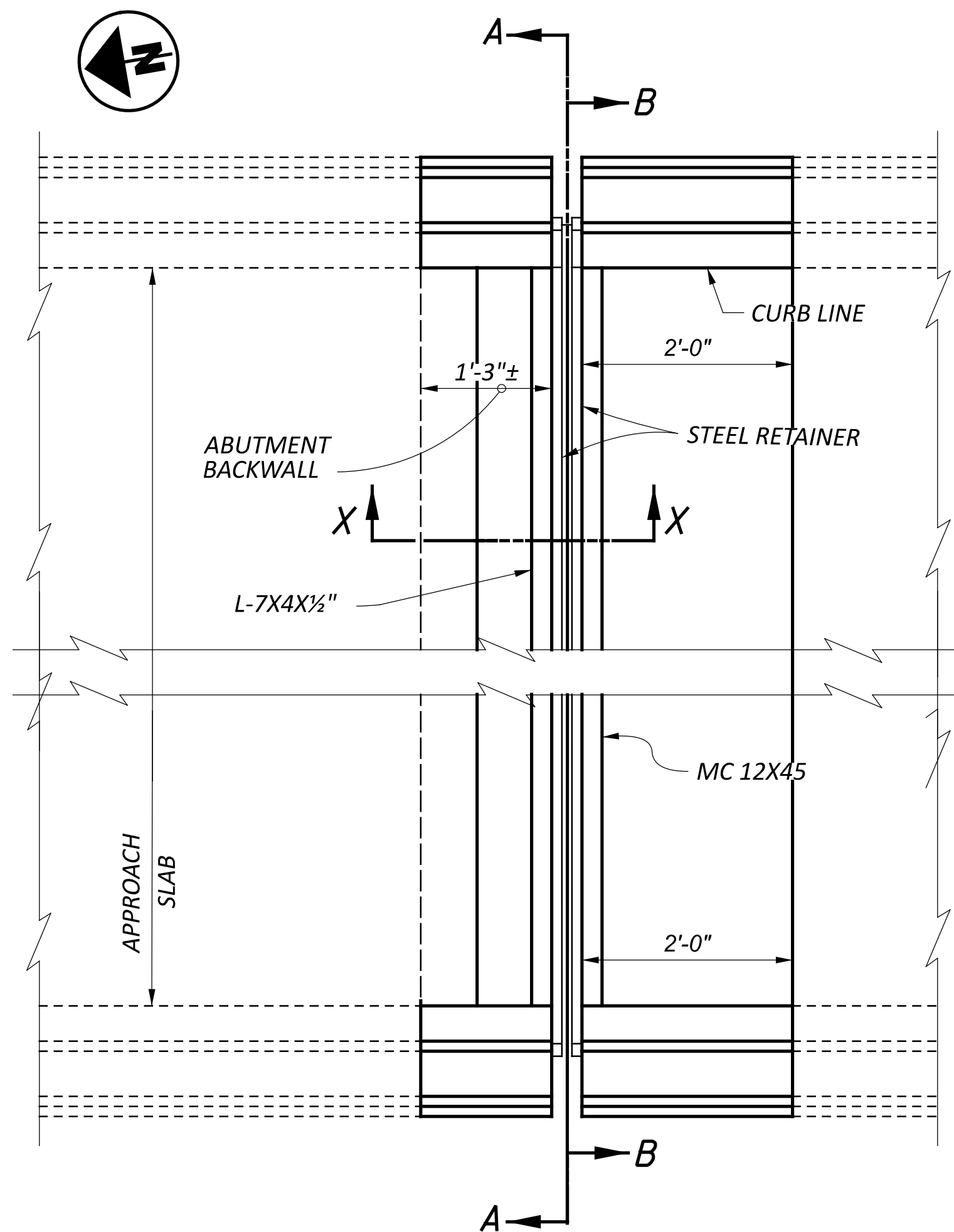
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DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
8	14
SHEET	TOTAL
16	41



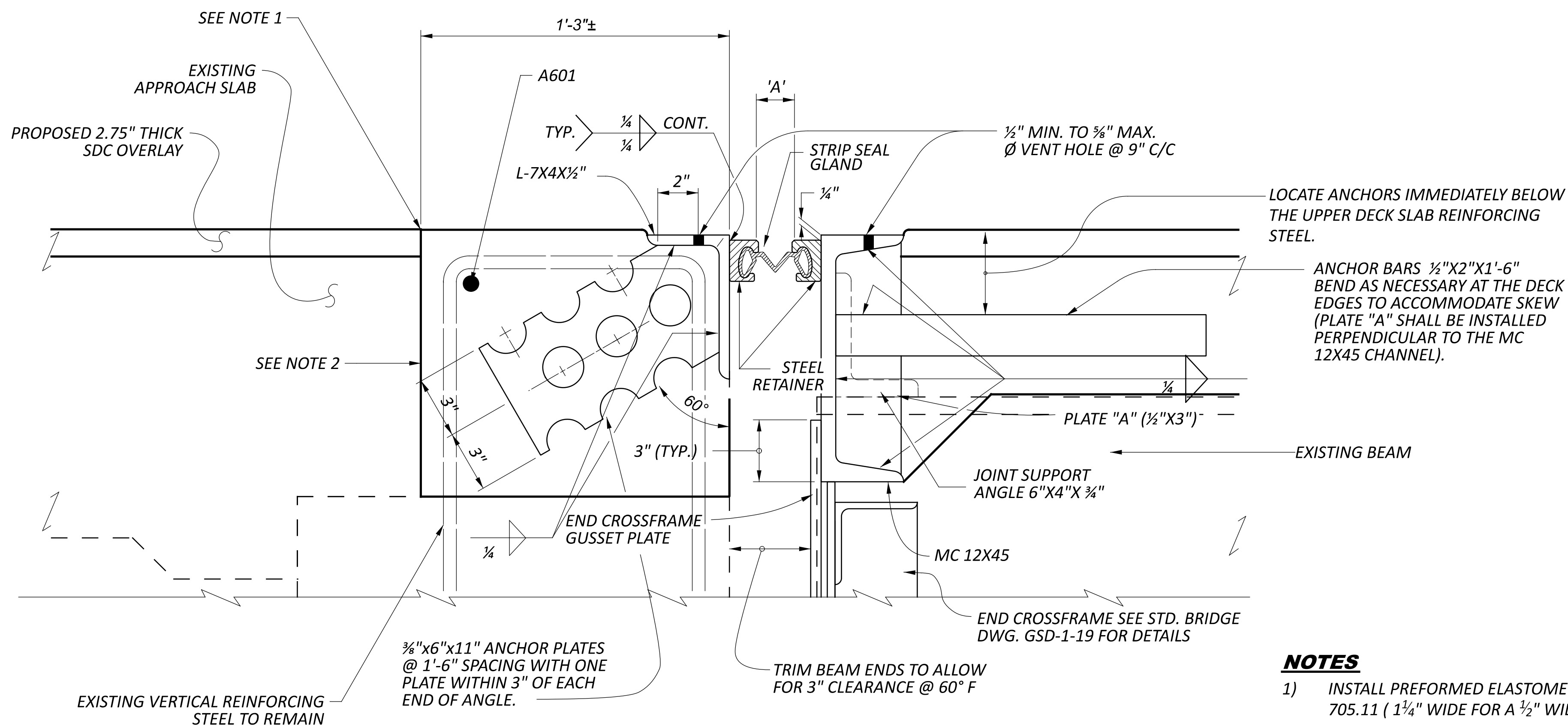
NOTES

- 1) INSTALL HOT APPLIED JOINT SEALER, 705.04 (2" DEEP x 1" WIDE)
- 2) TYPE E WATERPROOFING
- 3) SEE S.C.D. EXJ-4-87 & GSD-1-19 FOR ADDITIONAL DETAILS

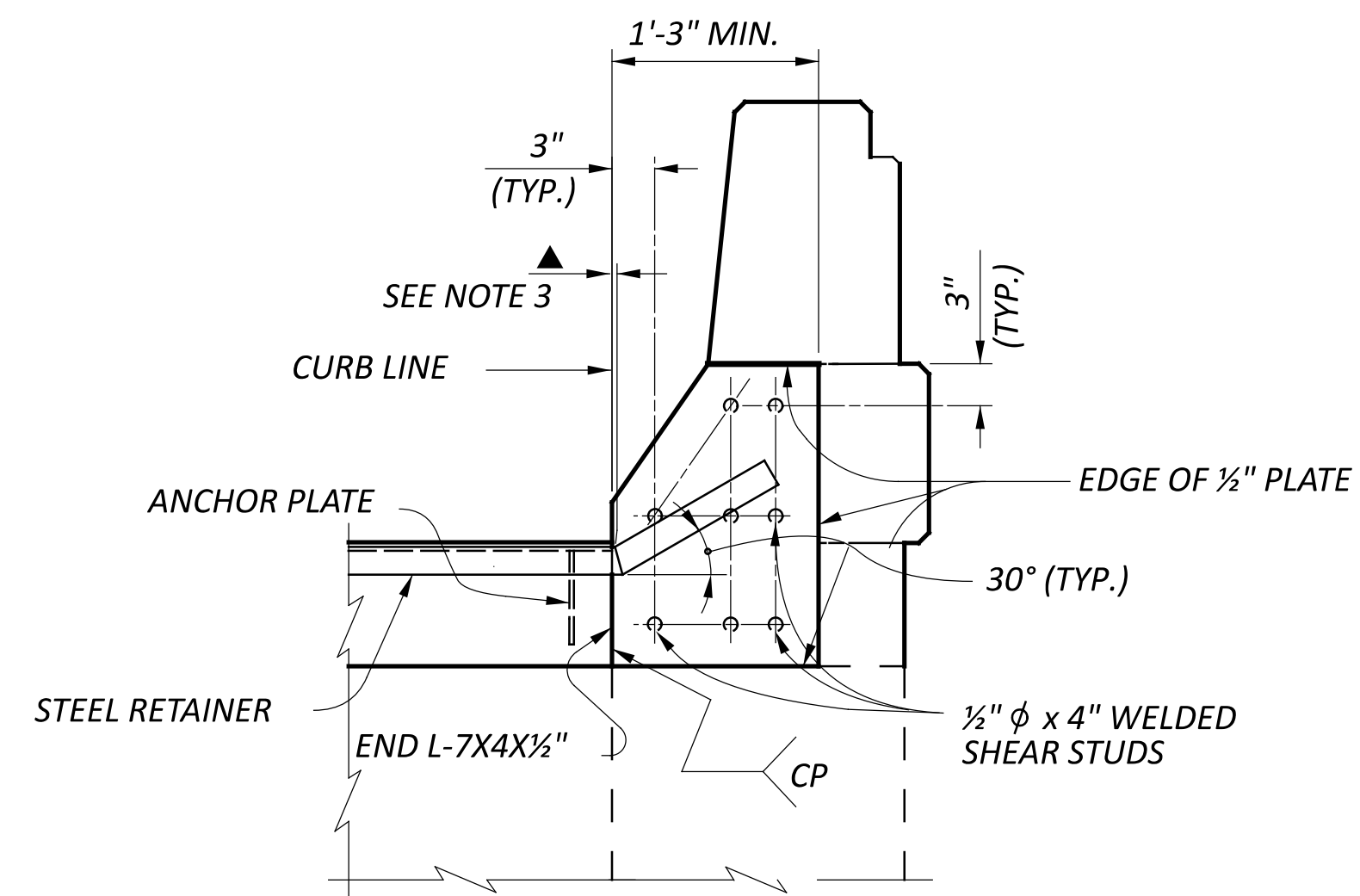




SECTION B-B



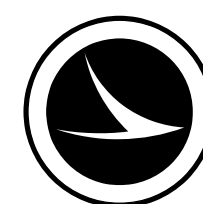
SECTION X-X

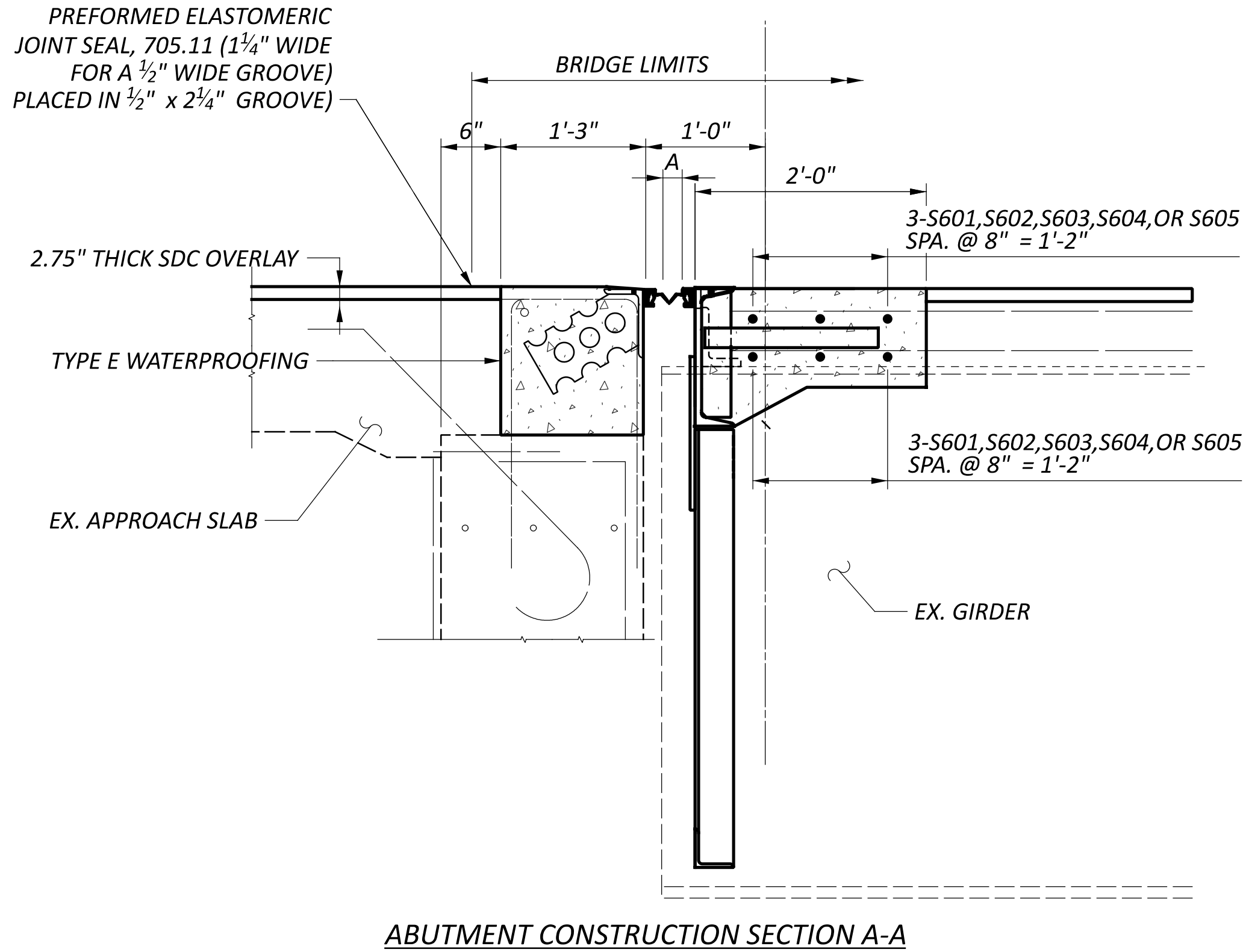


SECTION A-A

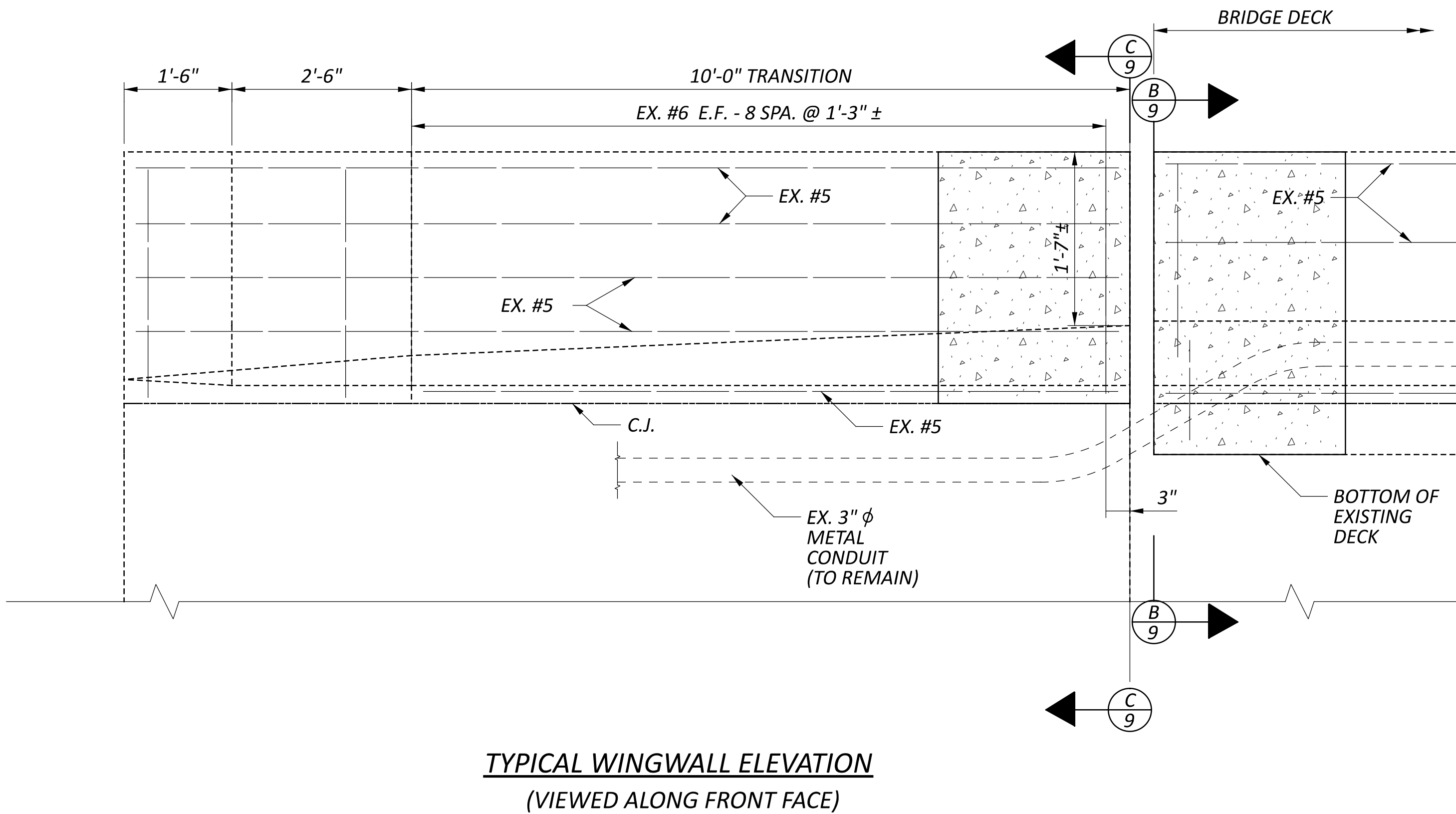
NOTES

- 1) INSTALL PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL, 705.11 (1 1/4" WIDE FOR A 1/2" WIDE GROOVE) PLACED IN A 1/2" x 2 1/4" GROOVE)
- 2) TYPE E WATERPROOFING
- 3) SEE S.C.D. EXJ-4-87 & GSD-1-19 FOR ADDITIONAL DETAILS

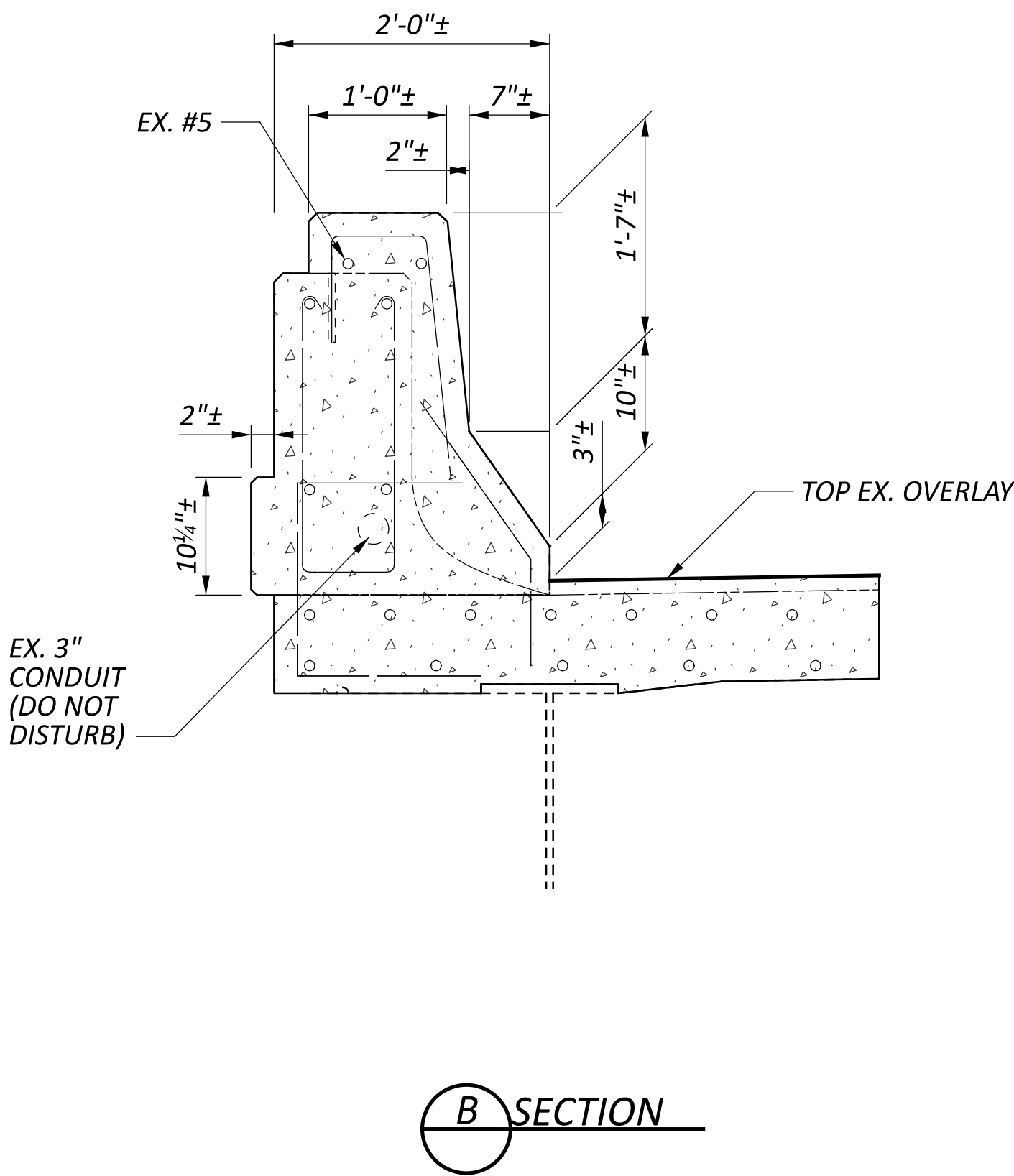




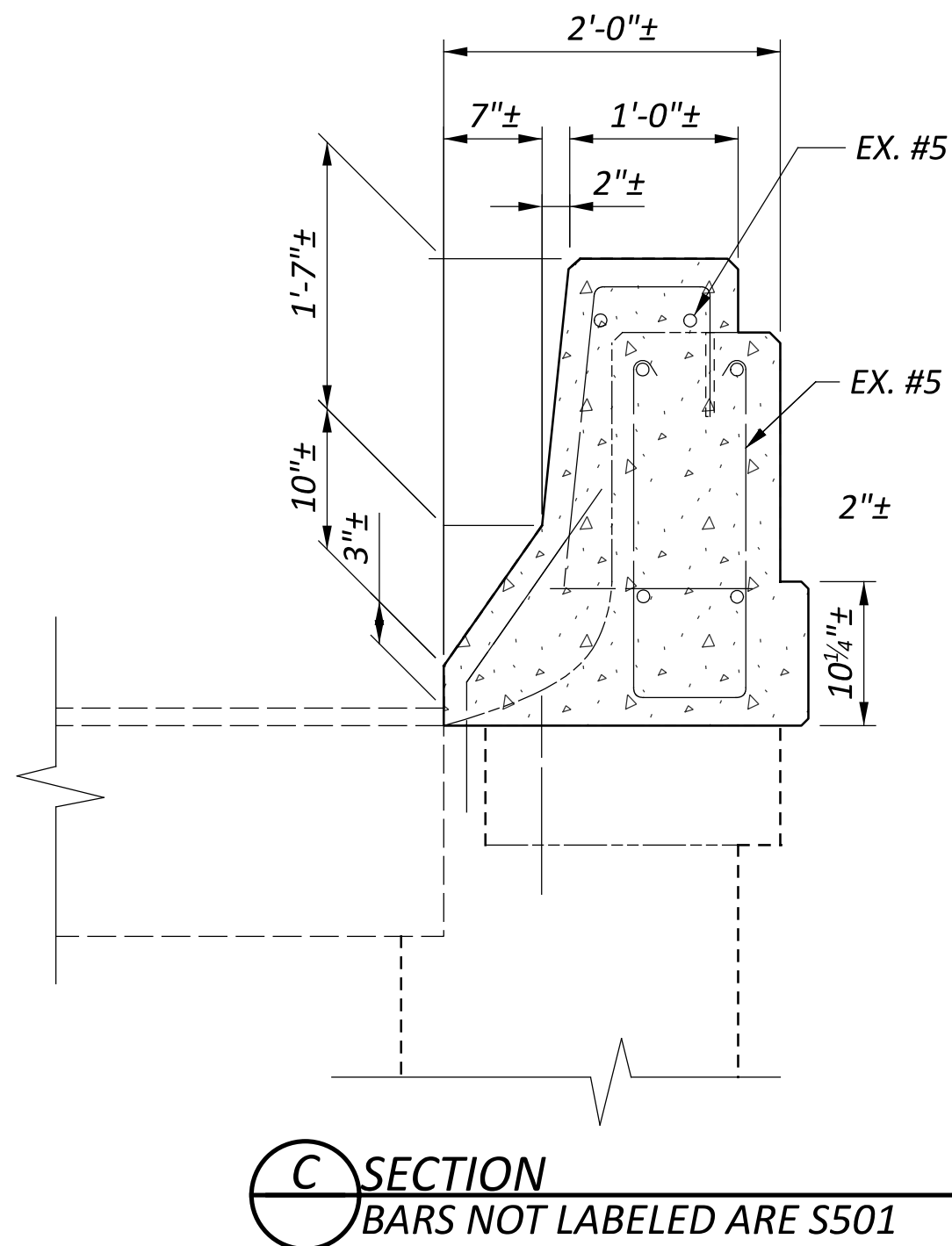
ABUTMENT CONSTRUCTION SECTION A-A



TYPICAL WINGWALL ELEVATION
(VIEWED ALONG FRONT FACE)

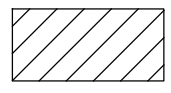


SECTION B



SECTION C
BARS NOT LABELED ARE S501

LEGEND

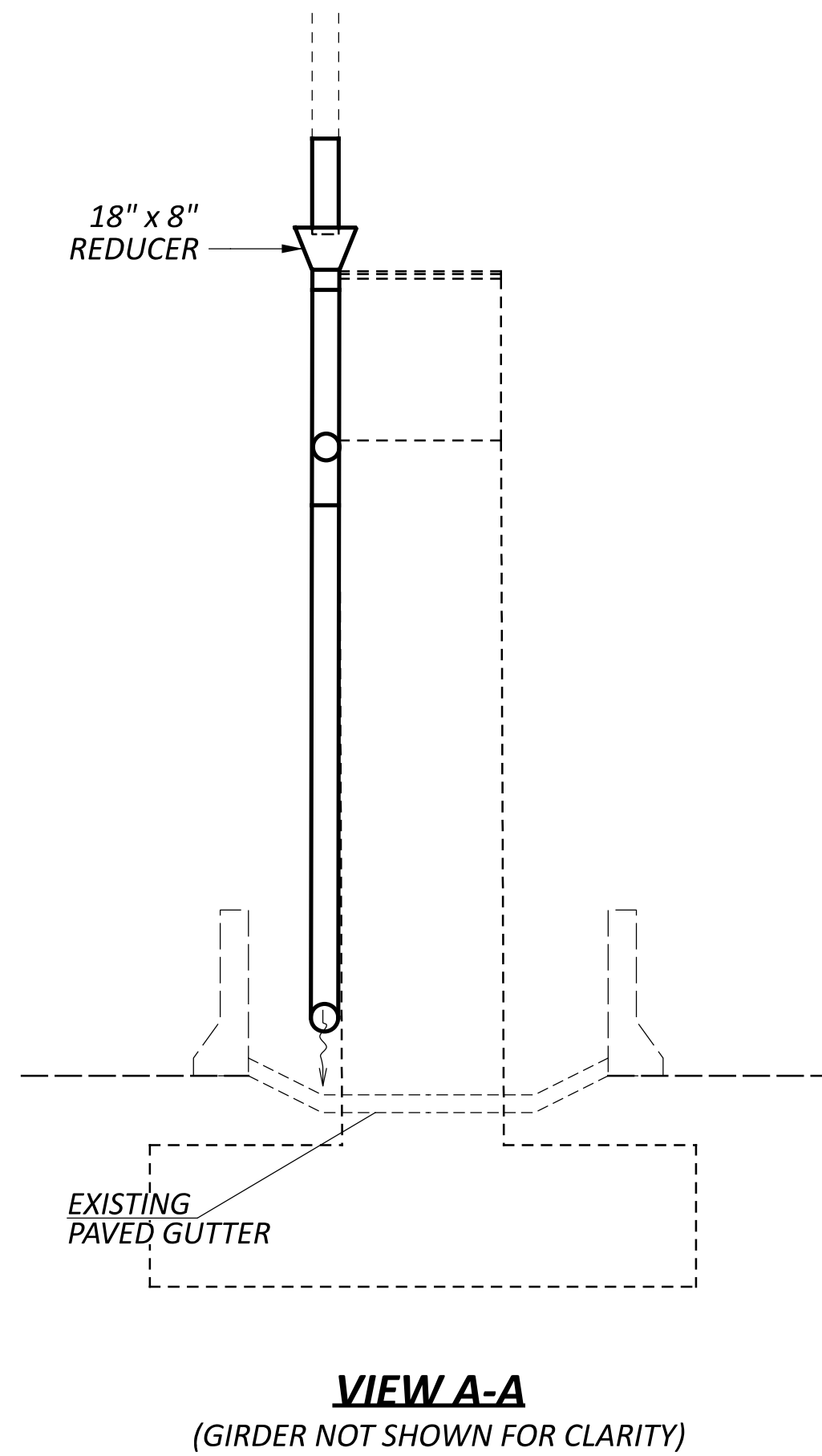
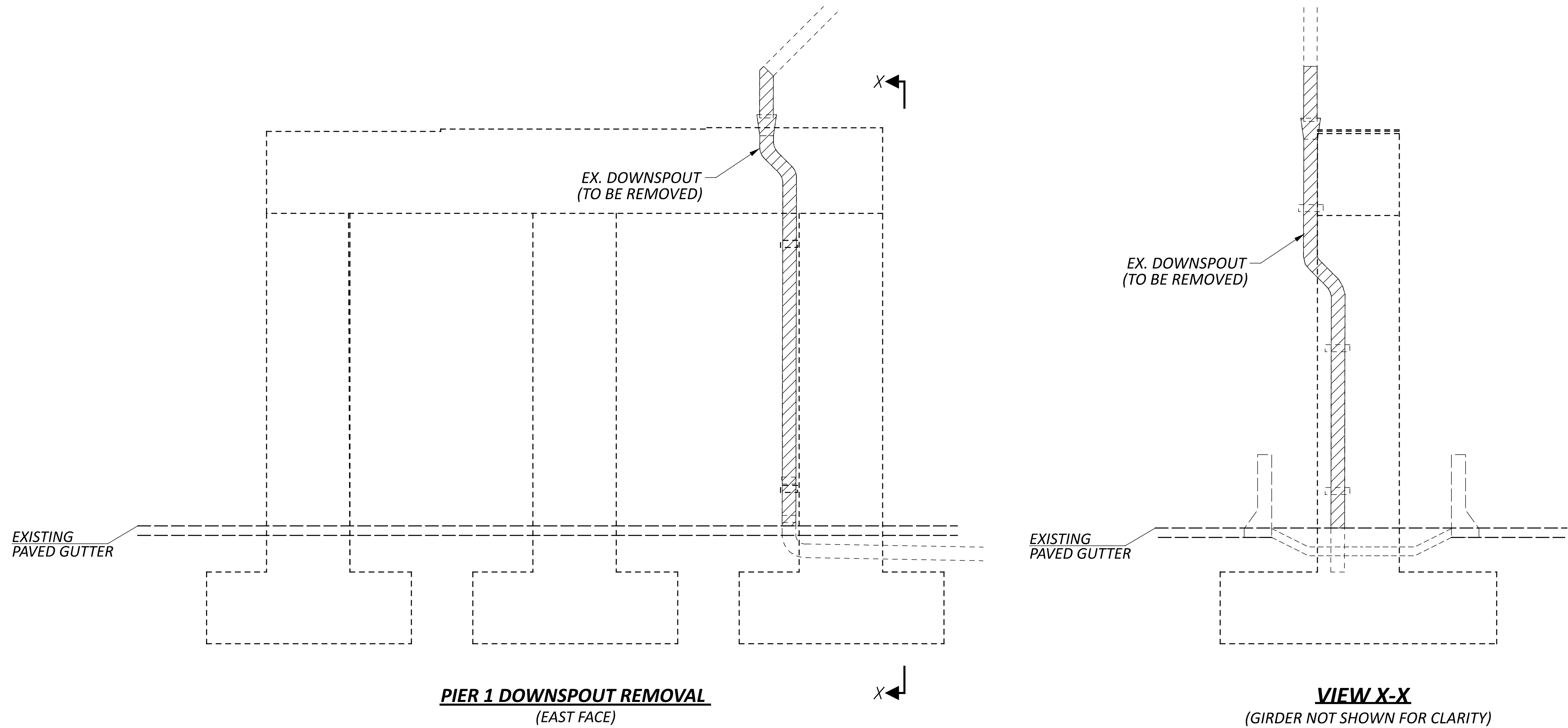
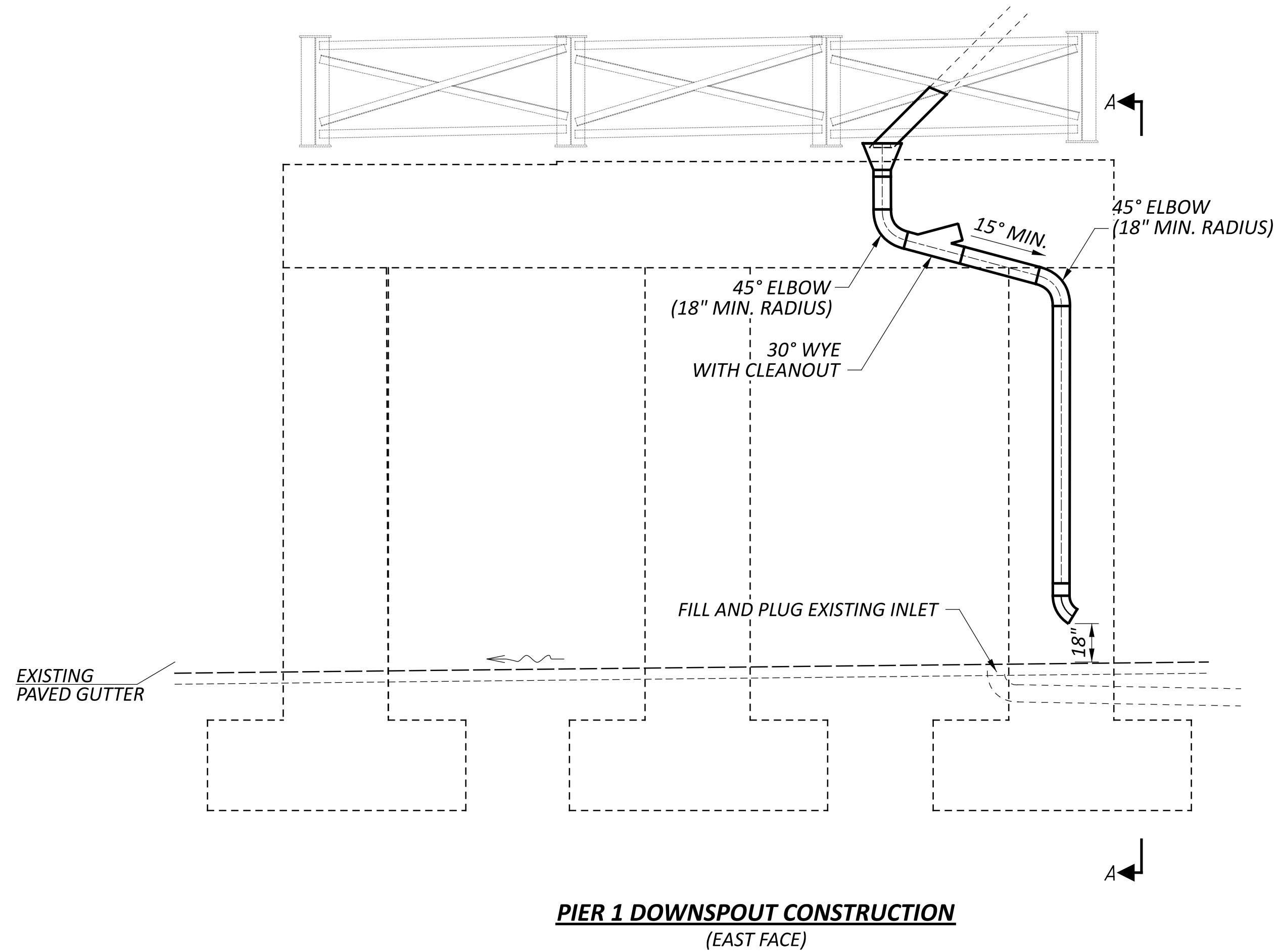
 - REMOVAL LIMITS OF EXISTING DOWNSPOUTS

NOTES:

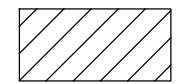
- DIMENSIONS SHOWN SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT PROPOSED DRAINAGE SYSTEM LOCATIONS & PREPARE DETAILED SHOP DRAWINGS INDICATING THE PROPOSED SIZES, FITTINGS, CONNECTIONS, AND OTHER PERTINENT INFORMATION PRIOR TO COMMENCING REPAIR WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO ORDERING MATERIALS.
- REMOVAL LOCATIONS TO COINCIDE WITH PROPOSED WORK LOCATIONS SHOWN. REMOVALS TO BE PAID UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED.
- ALL PROPOSED DRAIN PIPES AND FITTINGS SHALL BE FINISHED IN FEDERAL STANDARD COLOR NO. 26622 IN ACCORDANCE WITH SAE-AMS-STD-595. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT MATERIALS THAT ARE COMPATIBLE WITH THIS COLOR FINISH AND CAPABLE OF ACCEPTING AND RETAINING THE SPECIFIED COLOR THROUGH APPROPRIATE COATING OR MANUFACTURING PROCESSES.

ALL DRAIN PIPES AND FITTINGS SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF C&MS 518.07. FITTINGS SHALL BE OF THE SAME MATERIAL AND QUALITY AS THE PIPE, WITH WATERTIGHT JOINTS OF ADEQUATE STRENGTH, AND SHALL BE FINISHED TO MATCH THE SPECIFIED COLOR.

PAYMENT FOR ALL WORK DESCRIBED HEREIN, INCLUDING FURNISHING, FINISHING, AND INSTALLING THE DRAIN PIPES AND FITTINGS IN THE SPECIFIED COLOR, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE PIPE PAY ITEM. NO ADDITIONAL PAYMENT WILL BE MADE FOR COATINGS OR FINISHES, REGARDLESS OF THE METHOD USED TO ACHIEVE THE SPECIFIED COLOR.



LEGEND

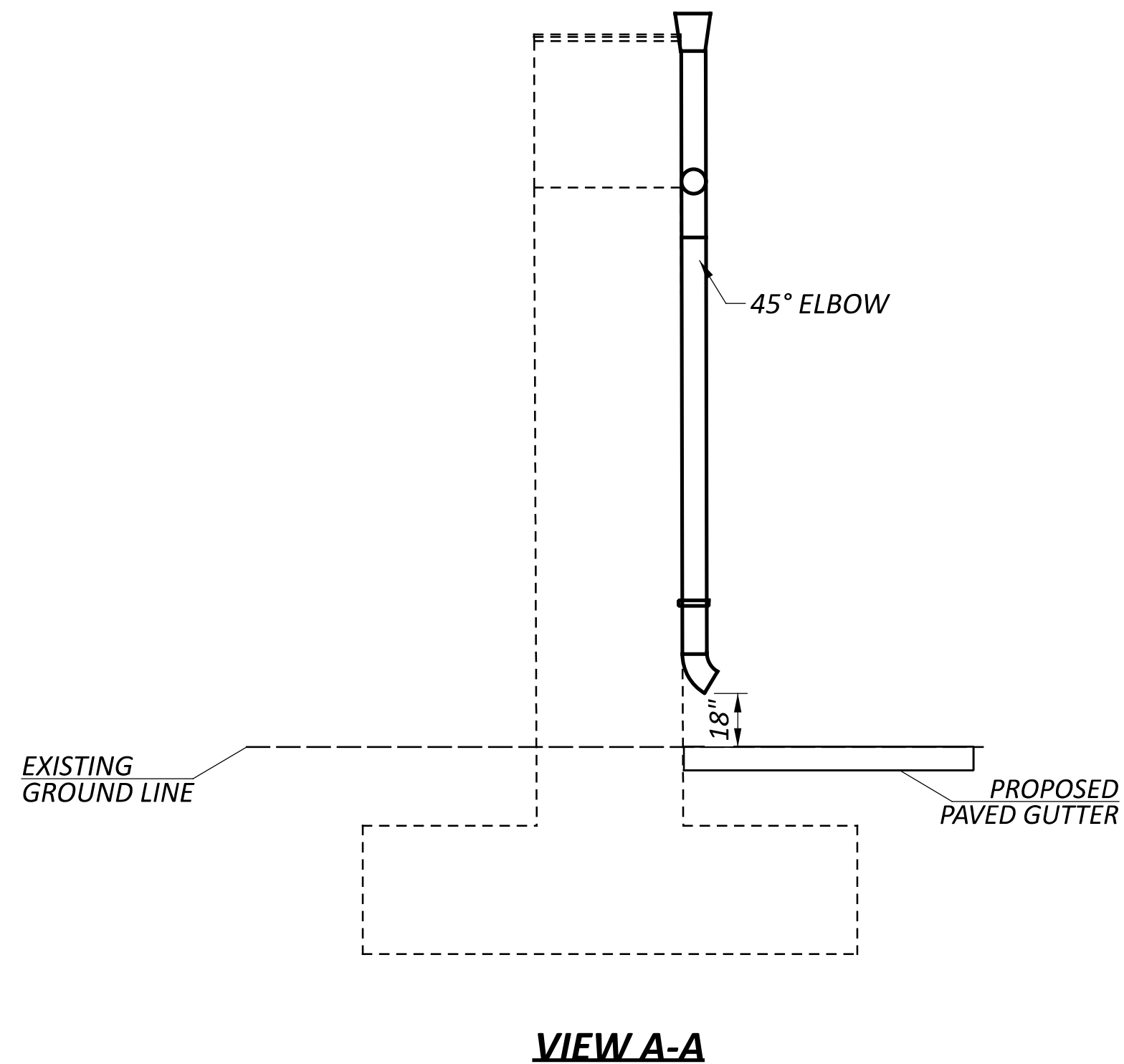
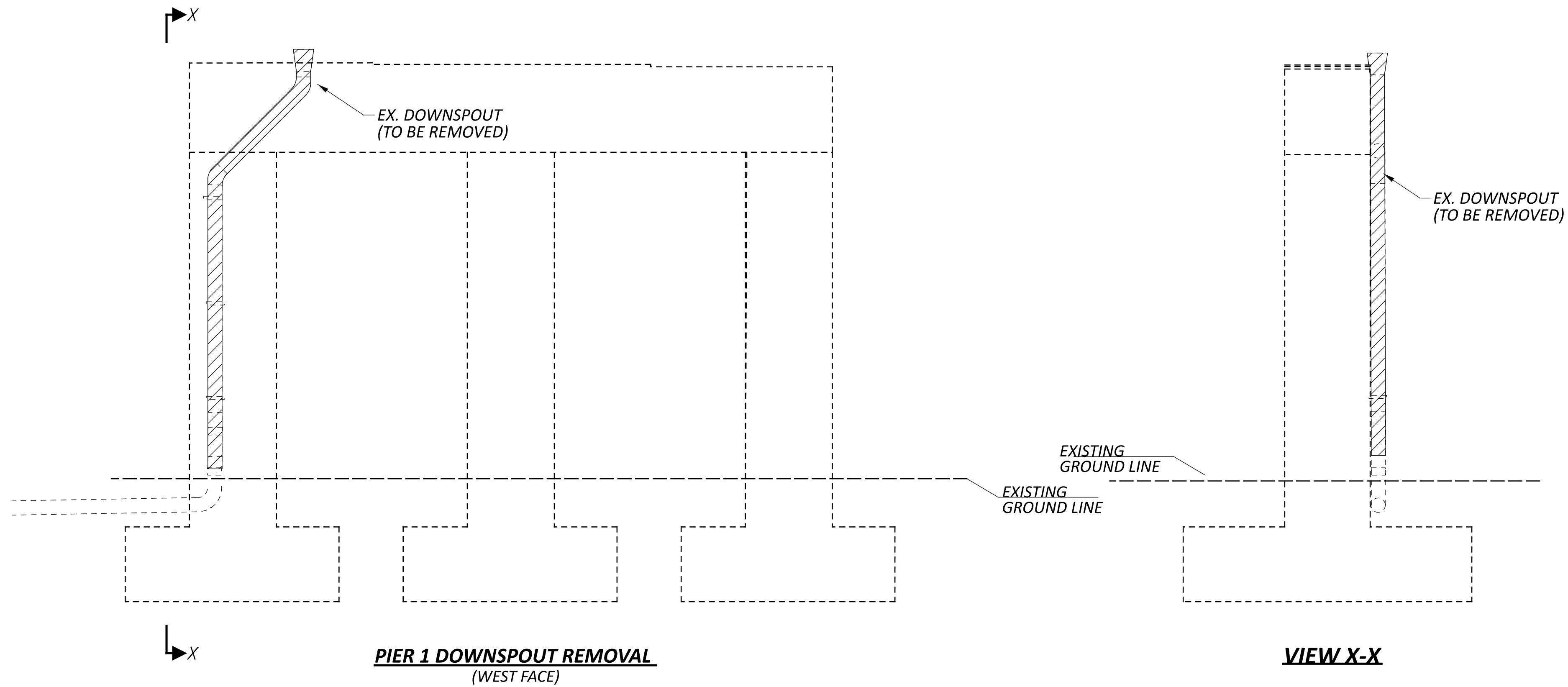
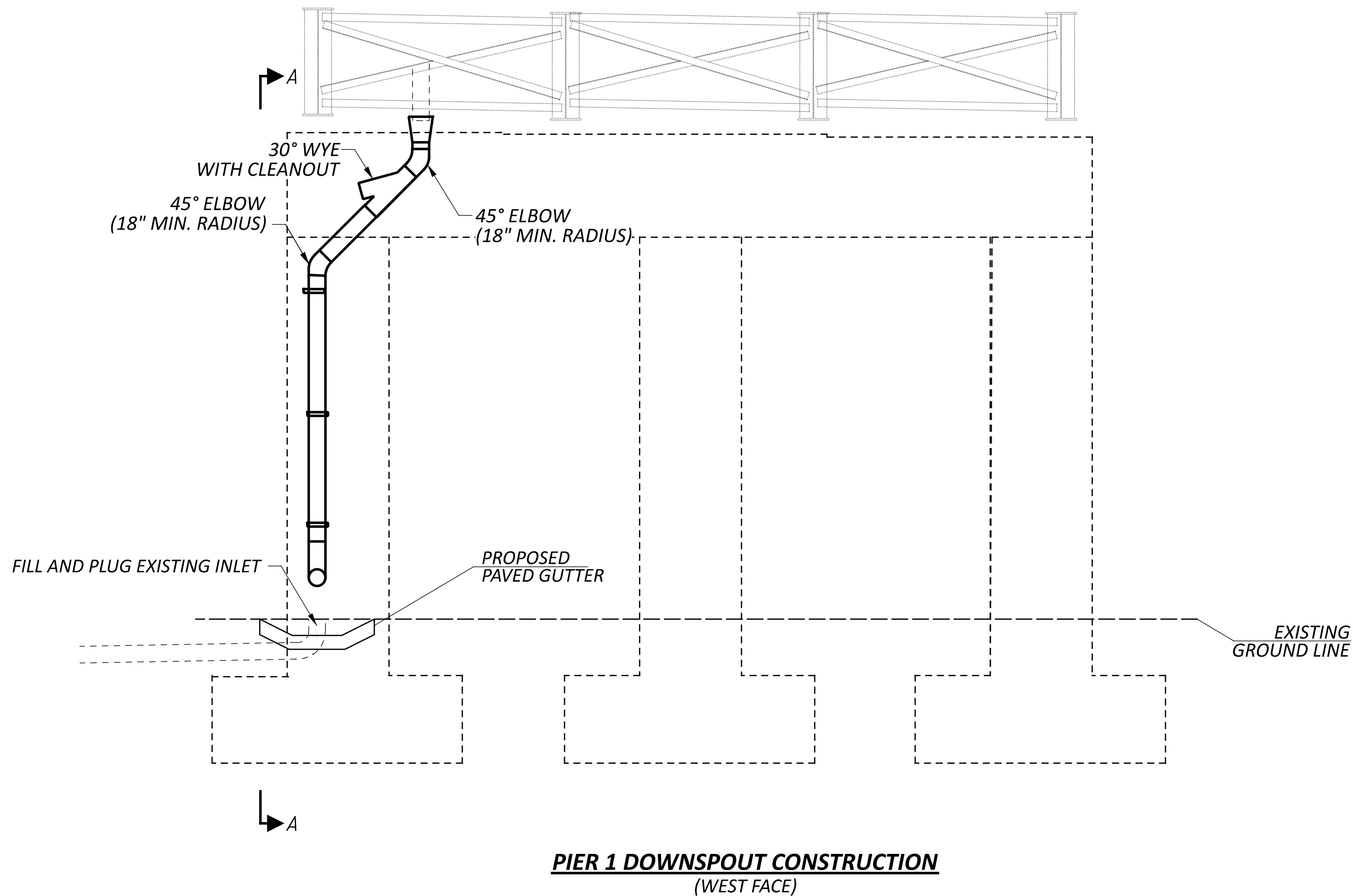
 - REMOVAL LIMITS OF EXISTING DOWNSPOUTS

NOTES:

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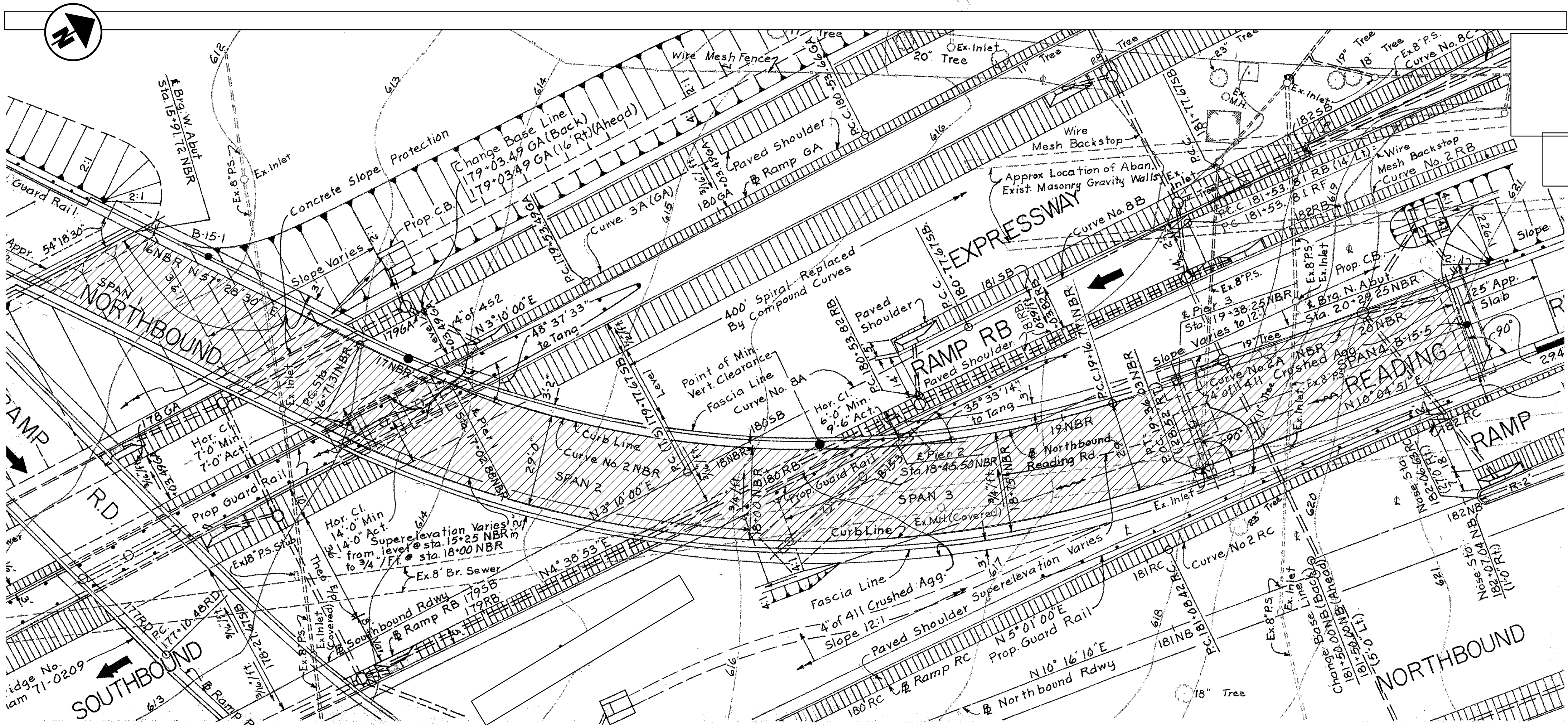
ALL DRAIN PIPES AND FITTINGS SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF C&MS 518.07. FITTINGS SHALL BE OF THE SAME MATERIAL AND QUALITY AS THE PIPE, WITH WATERTIGHT JOINTS OF ADEQUATE STRENGTH, AND SHALL BE FINISHED TO MATCH THE SPECIFIED COLOR.

PAYMENT FOR ALL WORK DESCRIBED HEREIN, INCLUDING FURNISHING, FINISHING, AND INSTALLING THE DRAIN PIPES AND FITTINGS IN THE SPECIFIED COLOR, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE PIPE PAY ITEM. NO ADDITIONAL PAYMENT WILL BE MADE FOR COATINGS OR FINISHES, REGARDLESS OF THE METHOD USED TO ACHIEVE THE SPECIFIED COLOR.

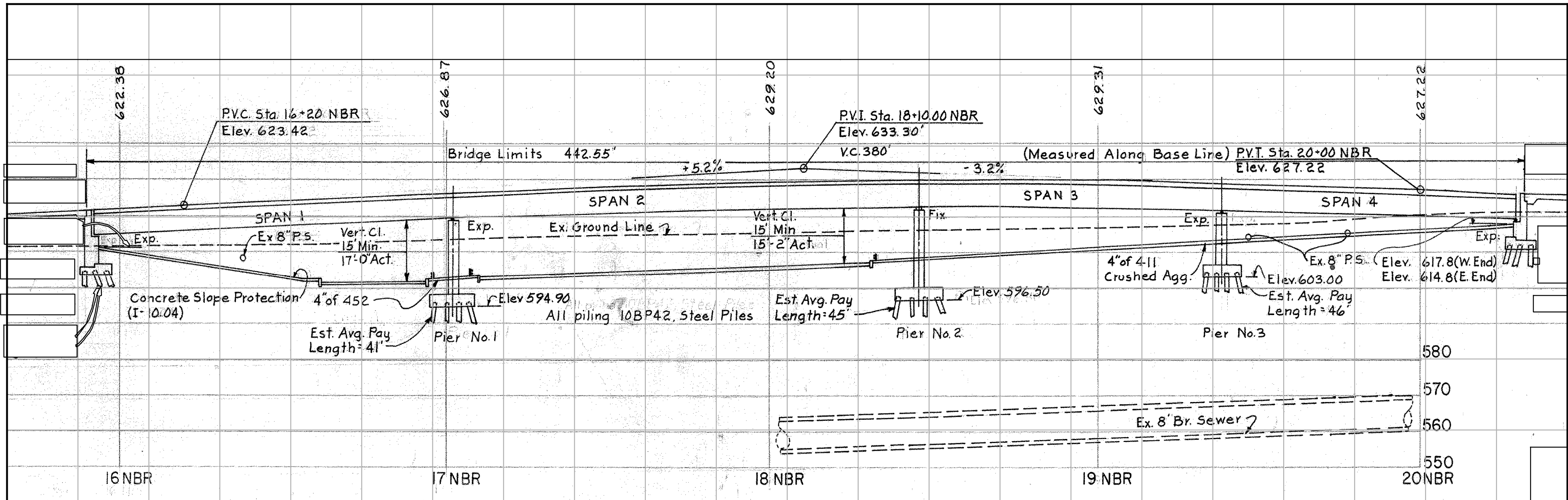


DOWNSPOUT REPLACEMENT DETAILS
BRIDGE No.: HAM-71-0233
RAMP TO NORTHBOUND IR 71 OVER IR 71

SFN	
3106756	
DESIGN AGENCY	
	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
11	14
SHEET	TOTAL
19	41



PLAN



PROFILE ALONG B

NOTES

DETAILS ON THIS SITE PLAN SHEET ARE FROM ARCHIVED PLANS AND SHOULD BE USED FOR REFERENCE ONLY.

DESIGN TRAFFIC

HAM-42-0235

2028 ADT = 13,600 2028 ADTT = 544

2048 ADT = 13,600 2048 ADTT = 544

DIRECTIONAL DISTRIBUTION = 100%

DESIGN FUNCTIONAL CLASSIFICATION: 03 PRINCIPAL ARTERIAL (URBAN)

IR-71

2028 ADT = 106,000 2028 ADTT = 12,720

2048 ADT = 109,000 2048 ADTT = 13,080

DIRECTIONAL DISTRIBUTION = 70%

DESIGN FUNCTIONAL CLASSIFICATION: 01 INTERSTATE (URBAN)

LEGEND

- 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
- 17'-0"± ACTUAL MINIMUM VERTICAL CLEARANCE (RAMP LANE)
- 15'-2"± ACTUAL MINIMUM VERTICAL CLEARANCE (SOUTHBOUND IR 75)
- LIMITS OF ITEM 848, SUPERPLASTICIZED DENSE CONCRETE OVERLAY

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL PLATE GIRDERS WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE

SPANS: 111.16'±, 142.62'±, 92.75'±, 91.00'±, C/C BRG. MEASURED ALONG B

ROADWAY: VARIES 25' TO 29' F/F CURBS WITH 2'-0" ± SAFETY CURBS

LOADING: HS20

SKEW: VARIES (SEE PLAN)

WEARING SURFACE: 1"± MONOLITHIC CONCRETE

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

ALIGNMENT: VARIES (SEE PLAN)

SUPERELEVATION: VARIES

STRUCTURE FILE NUMBER: 3101207

DATE BUILT: 1970

DISPOSITION: SEE PROPOSED WORK

COORDINATES: LATITUDE 39° 06' 50.15"
LONGITUDE -84° 30' 4.56"

PROPOSED WORK

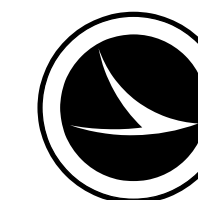
- REPLACE THE CONCRETE OVERLAY USING HYDRODEMOLITION WITH A 2.75" THICK SDC OVERLAY WITH MACRO FIBERS PER SS 848.
- REPLACE THE ELASTOMERIC EXPANSION JOINTS, INCLUDING 2.5 FEET OF DECK AND TOP BACKWALL TO THE APPROACH SLAB SEAT, WITH A NEW ELASTOMERIC STRIP SEAL AND JOINT ARMOR. TRIM BEAM ENDS, REPLACE CROSS FRAMES, AND ATTACH THE NEW CROSS FRAMES TO THE BEARING STIFFENERS. PAINT THE END 2 FEET OF THE BRIDGE INCLUDING BEARINGS. REPAIR HOLES IN BEAM ENDS TO REMAIN BEYOND STIFFENER.
- REPLACE DOWNSPOUTS TO ELIMINATE 90° BENDS. INCLUDE A PAY ITEM TO CLEAN THE SYSTEM FROM THE GROUND TO THE FIRST MANHOLE/CATCH BASIN.
- UPGRADE APPROACH GUARDRAIL TO CURRENT STANDARDS.

SITE PLAN

BRIDGE No.: HAM-42-0235R
US 42 OVER SOUTHBOUND IR 71

SFN 3101207

DESIGN AGENCY



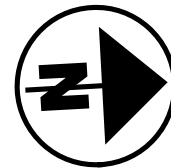
DESIGNER GTF CHECKER DLT

REVIEWER CAH 09/18/26

PROJECT ID 114671

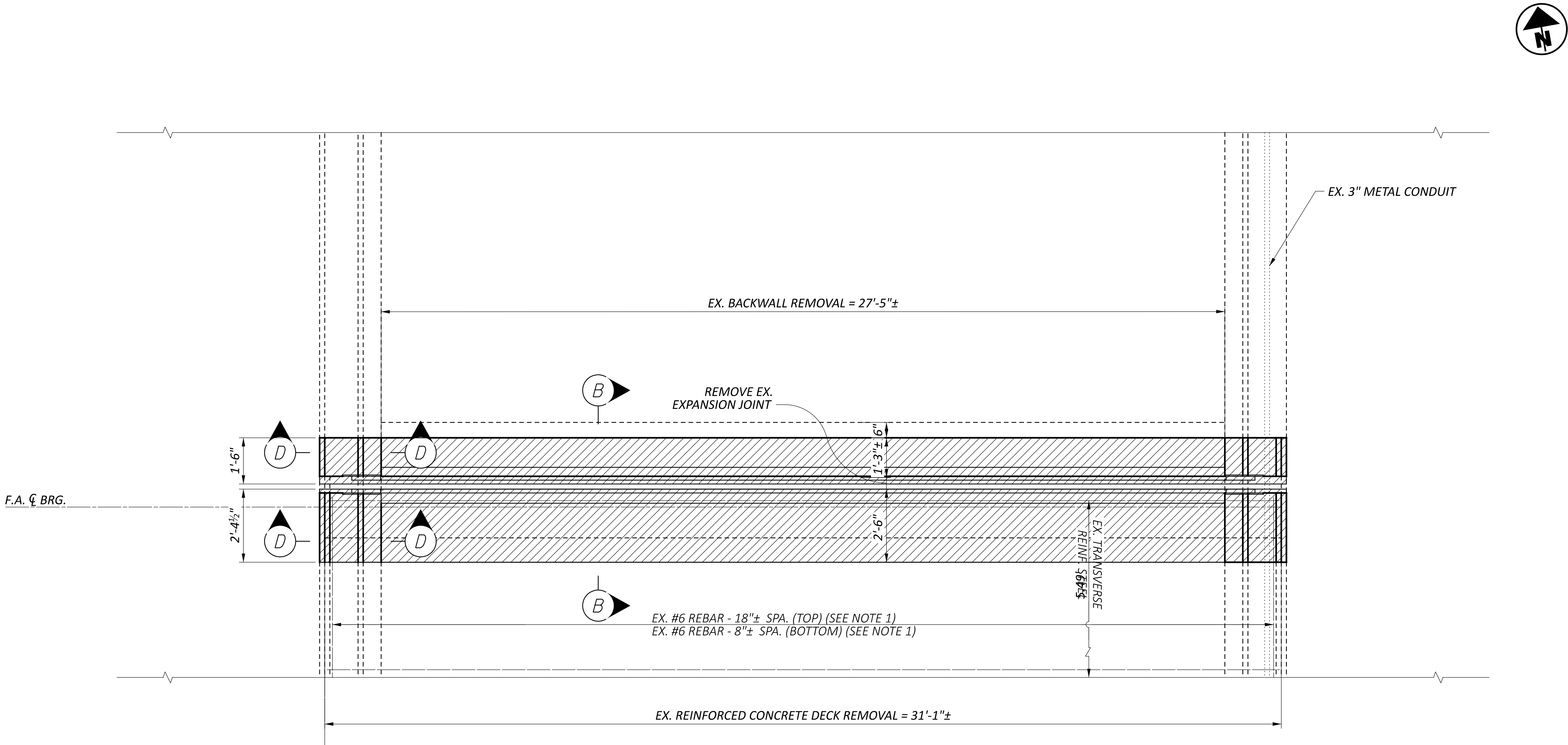
SUBSET 1 TOTAL 15

SHEET 23 TOTAL 41

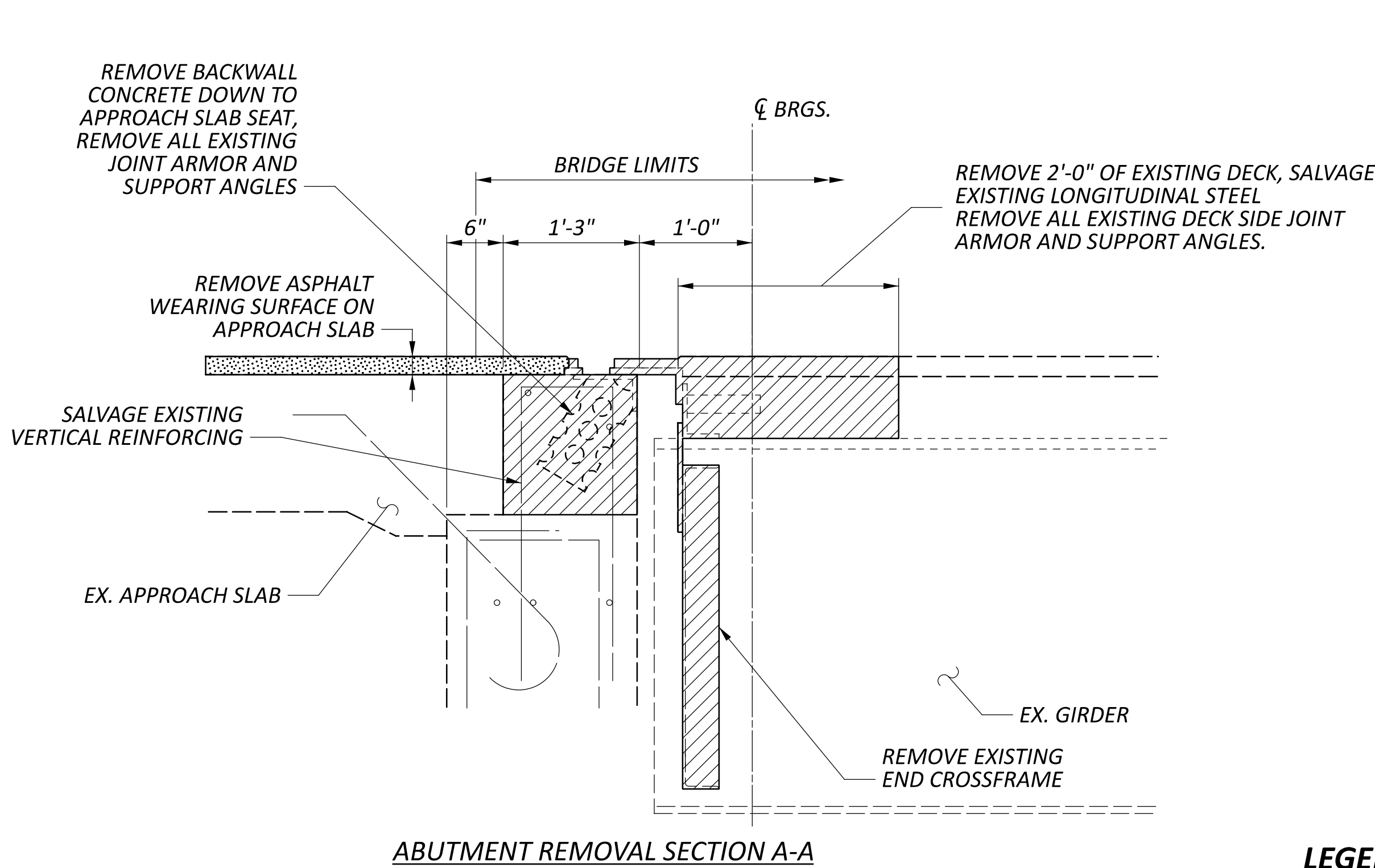


SFN	
3101207	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/20	
PROJECT ID	
114671	
SUBSET	TOTAL
2	15
SHEET	TOTAL
24	41

2) SEE SHEET ## FOR SECTIONS

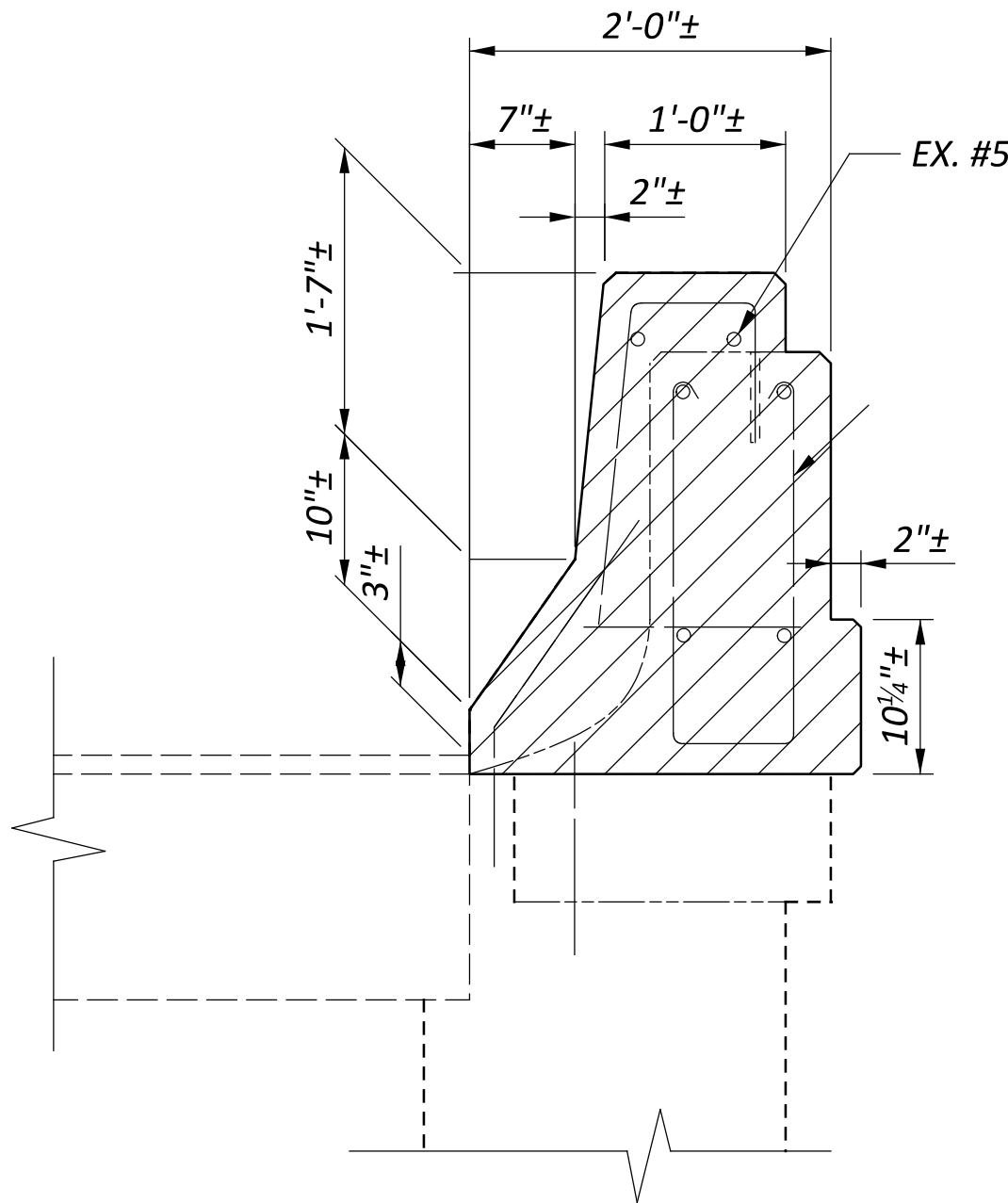
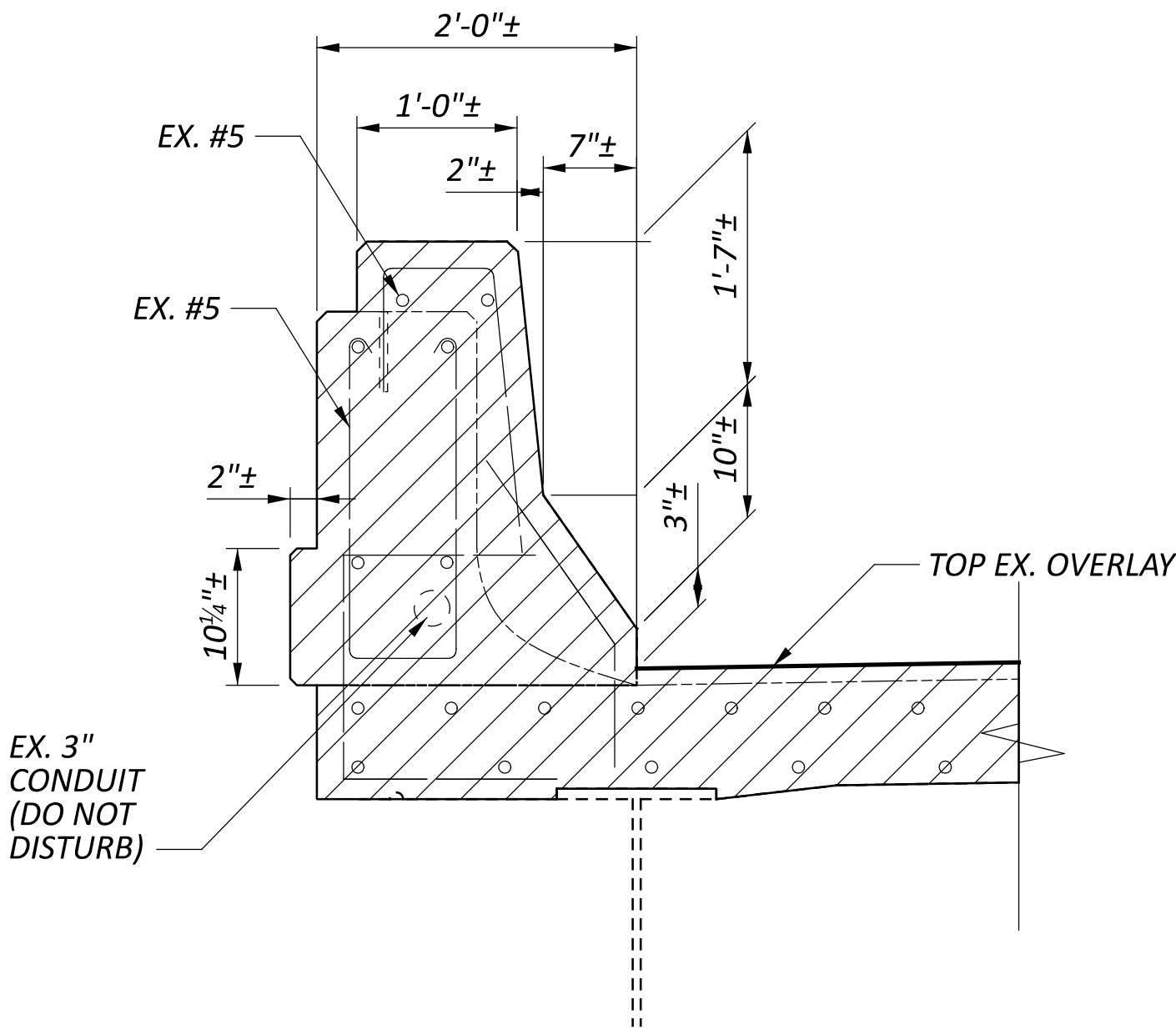
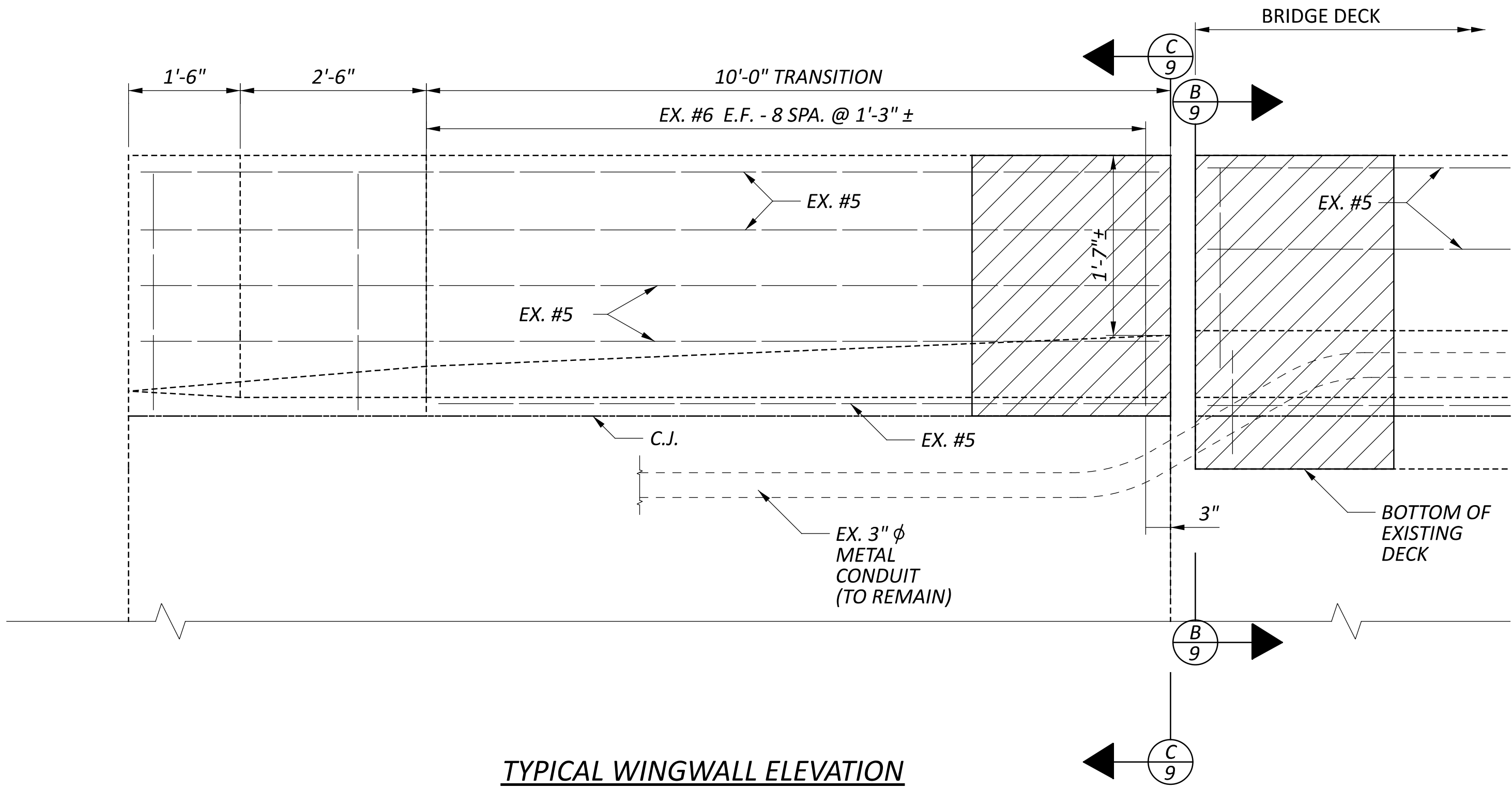


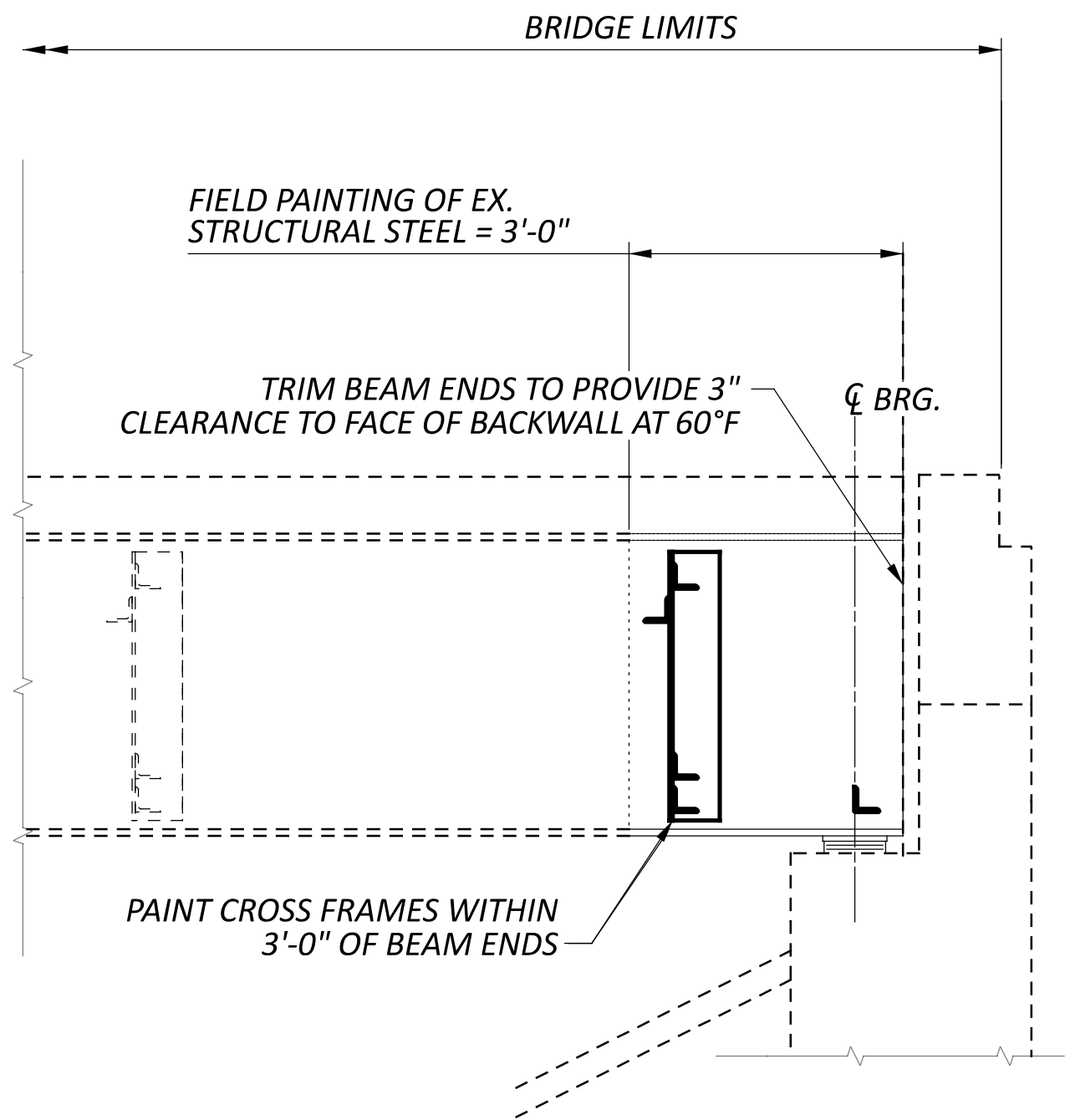
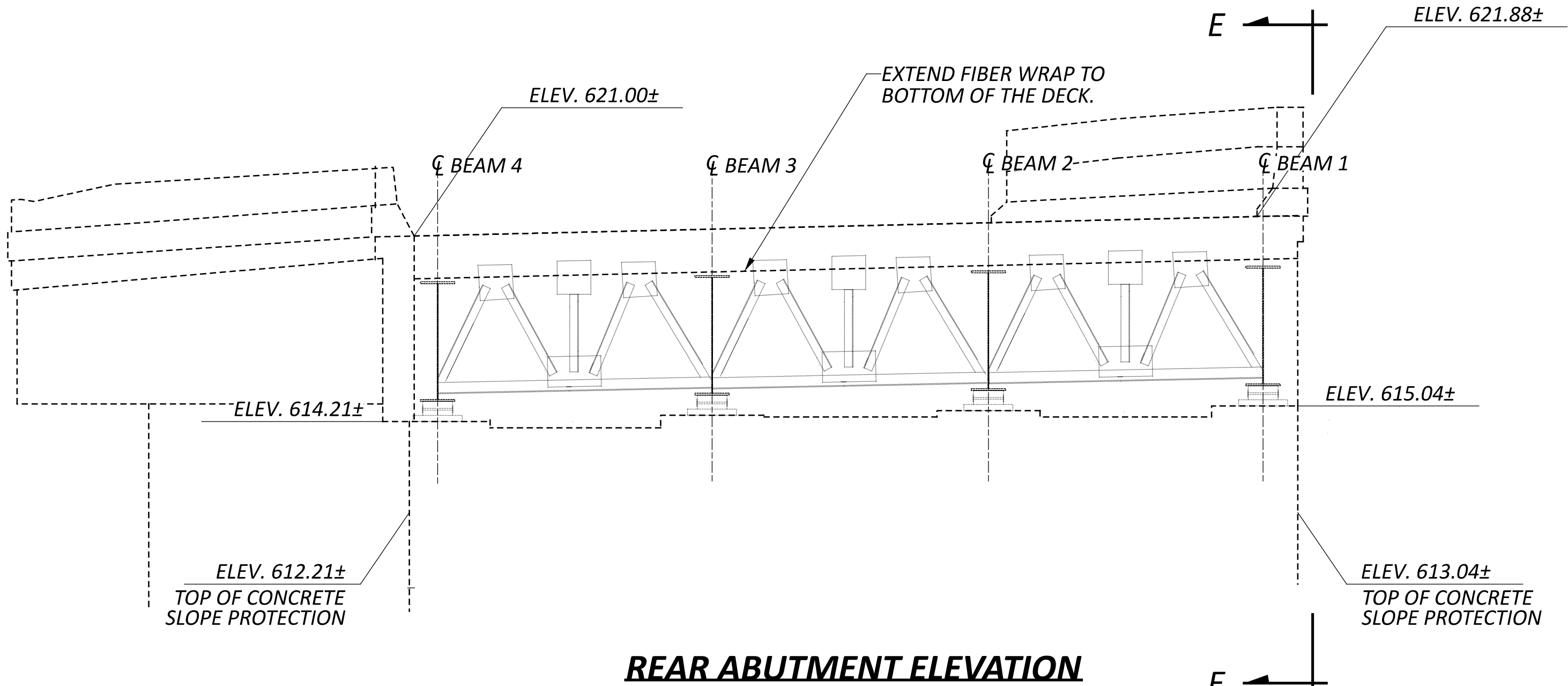
SFN	
3101207	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
3	15
SHEET	TOTAL
25	41



LEGEND

- PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

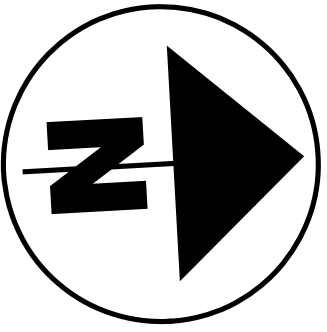




FIELD PAINTING OF STRUCTURAL STEEL CALCULATIONS

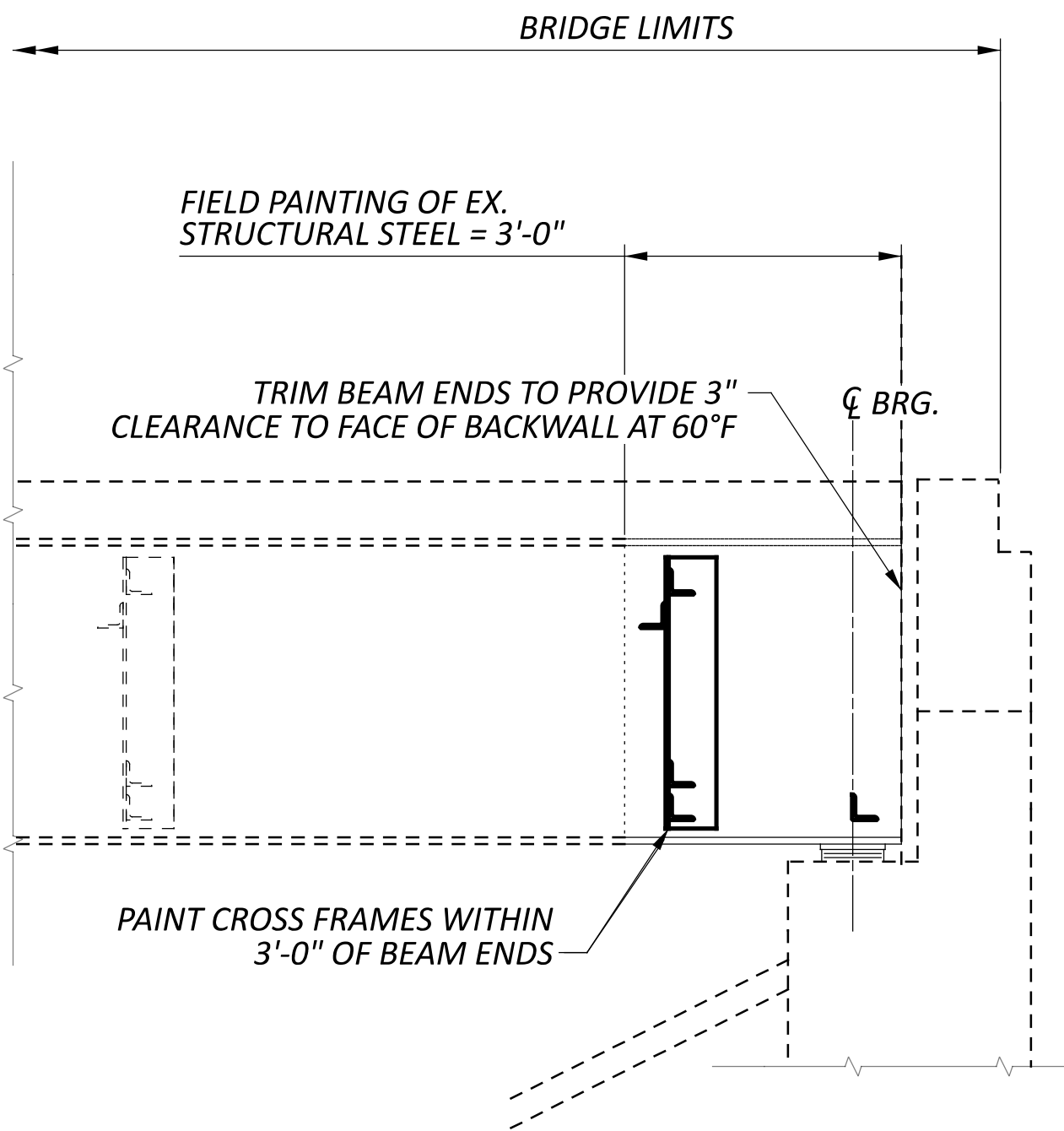
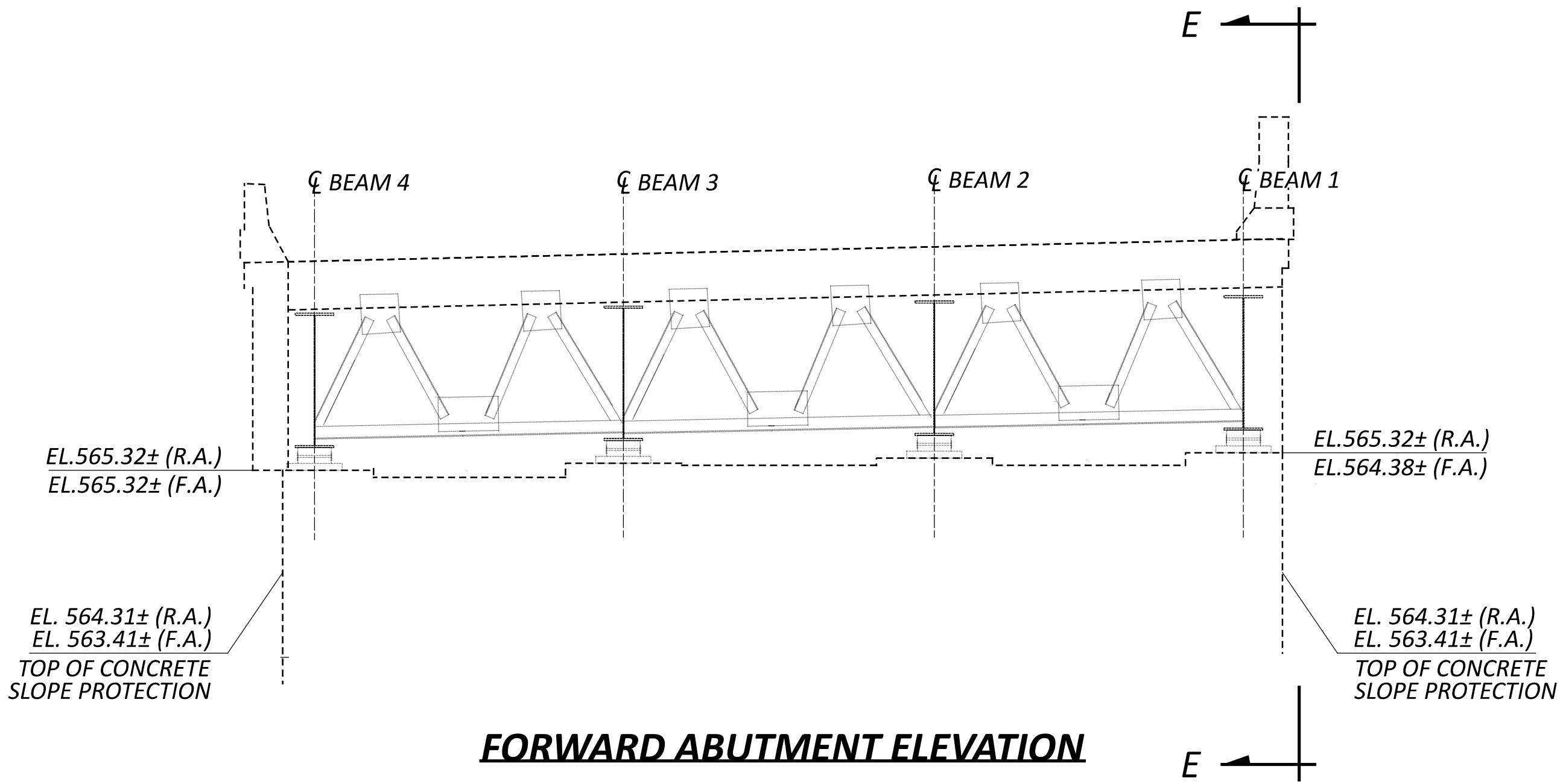
GIRDER	SIZE	LOCATION	PERIMETER (FT)	LENGTH (FT)	SURFACE AREA (SQ FT)
G-1	BUILT UP	R.A.	16.3	3.0	48.9
G-2	BUILT UP	R.A.	16.3	3.0	48.9
G-3	BUILT UP	R.A.	16.3	3.0	48.9
G-4	BUILT UP	R.A.	16.3	3.0	48.9
TOTAL				196	

CROSSFRAME	SIZE	LOCATION	QUANTITY	PERIMETER (FT)	TOTAL LENGTH-DIAGONAL MEMBERS (FT)	TOTAL LENGTH-HORIZONTAL MEMBER (FT)	SURFACE AREA (SQ FT)
END CROSSFRAME	L4x4x3/8	F.A.	3	1.3	41.5	19.6	238.2
STIFFENER PLATE	3/8" x 54"	F.A.	8	-	-	-	69.2
INTERMEDIATE CROSSFRAME	L4x4x3/8	F.A.	3.0	1.3	22.1	19.8	163.1
LARGE PLATE	3/8"	F.A.	9.0	-	-	-	45.0
SMALL PLATE	3/8"	F.A.	15.0	-	-	-	30.0
BEARING	-	F.A.	4.0				14.0
TOTAL							560



SFN	
3101207	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
6	15
SHEET	TOTAL
28	41

- 1) TRIM EXISTING LONGITUDINAL DECK REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEARANCE TO END OF DECK
- 2) SEE SHEET ## FOR SECTIONS

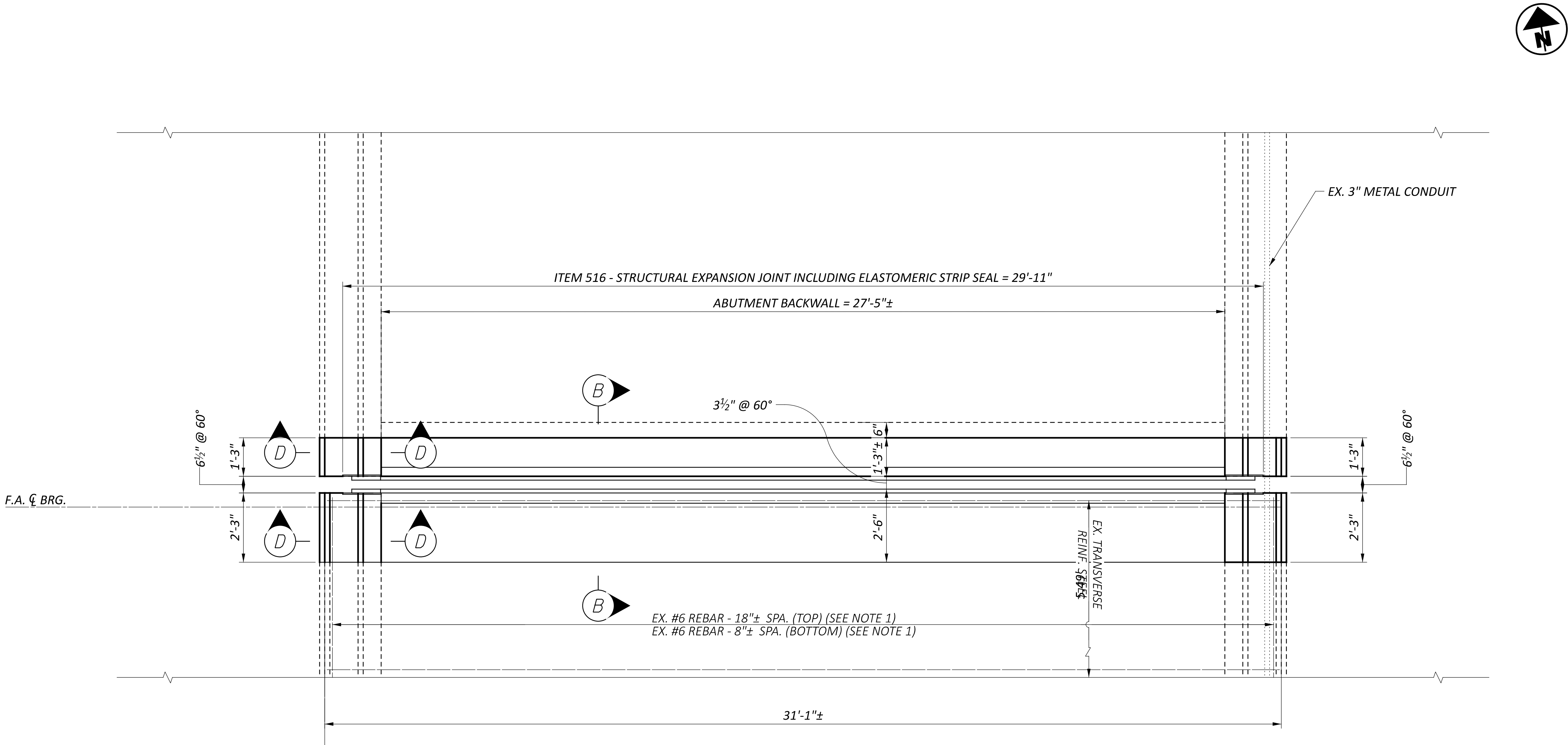


FIELD PAINTING OF STRUCTURAL STEEL CALCULATIONS

GIRDER	SIZE	LOCATION	PERIMETER (FT)	LENGTH (FT)	SURFACE AREA (SQ FT)
G-1	BUILT UP	R.A.	16.3	3.0	48.9
G-2	BUILT UP	R.A.	16.3	3.0	48.9
G-3	BUILT UP	R.A.	16.3	3.0	48.9
G-4	BUILT UP	R.A.	16.3	3.0	48.9
TOTAL					196

CROSSFRAME	SIZE	LOCATION	QUANTITY	PERIMETER (FT)	TOTAL LENGTH-DIAGONAL MEMBERS (FT)	TOTAL LENGTH-HORIZONTAL MEMBER (FT)	SURFACE AREA (SQ FT)
END CROSSFRAME	L4x4x3/8	F.A.	3	1.3	41.5	19.6	238.2
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INTERMEDIATE CROSSFRAME	L4x4x3/8	F.A.	3.0	1.3	22.1	19.8	163.1
LARGE PLATE	3/8"	F.A.	9.0	-	-	-	45.0
SMALL PLATE	3/8"	F.A.	15.0	-	-	-	30.0
BEARING	-	F.A.	4.0				14.0
TOTAL							560

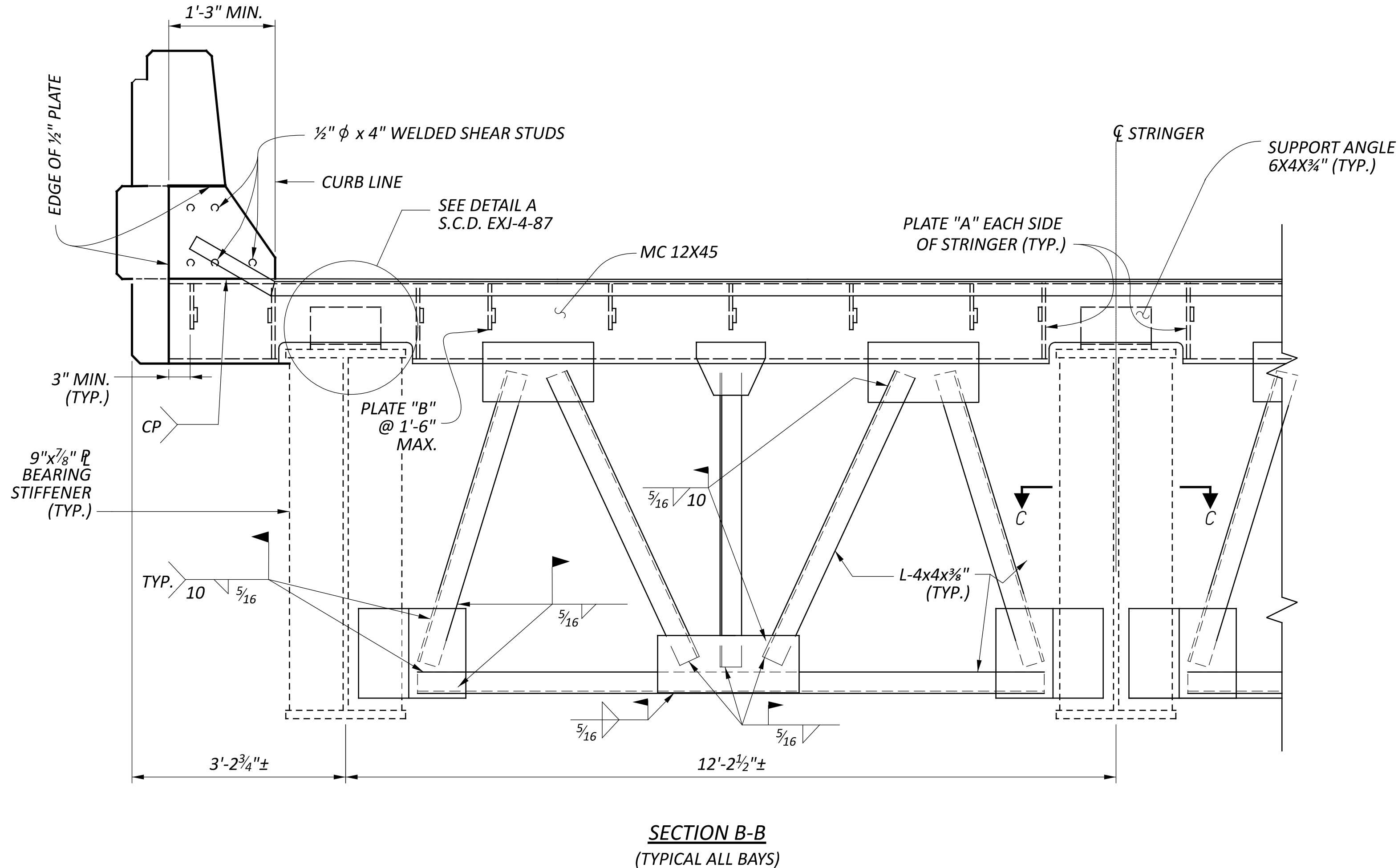
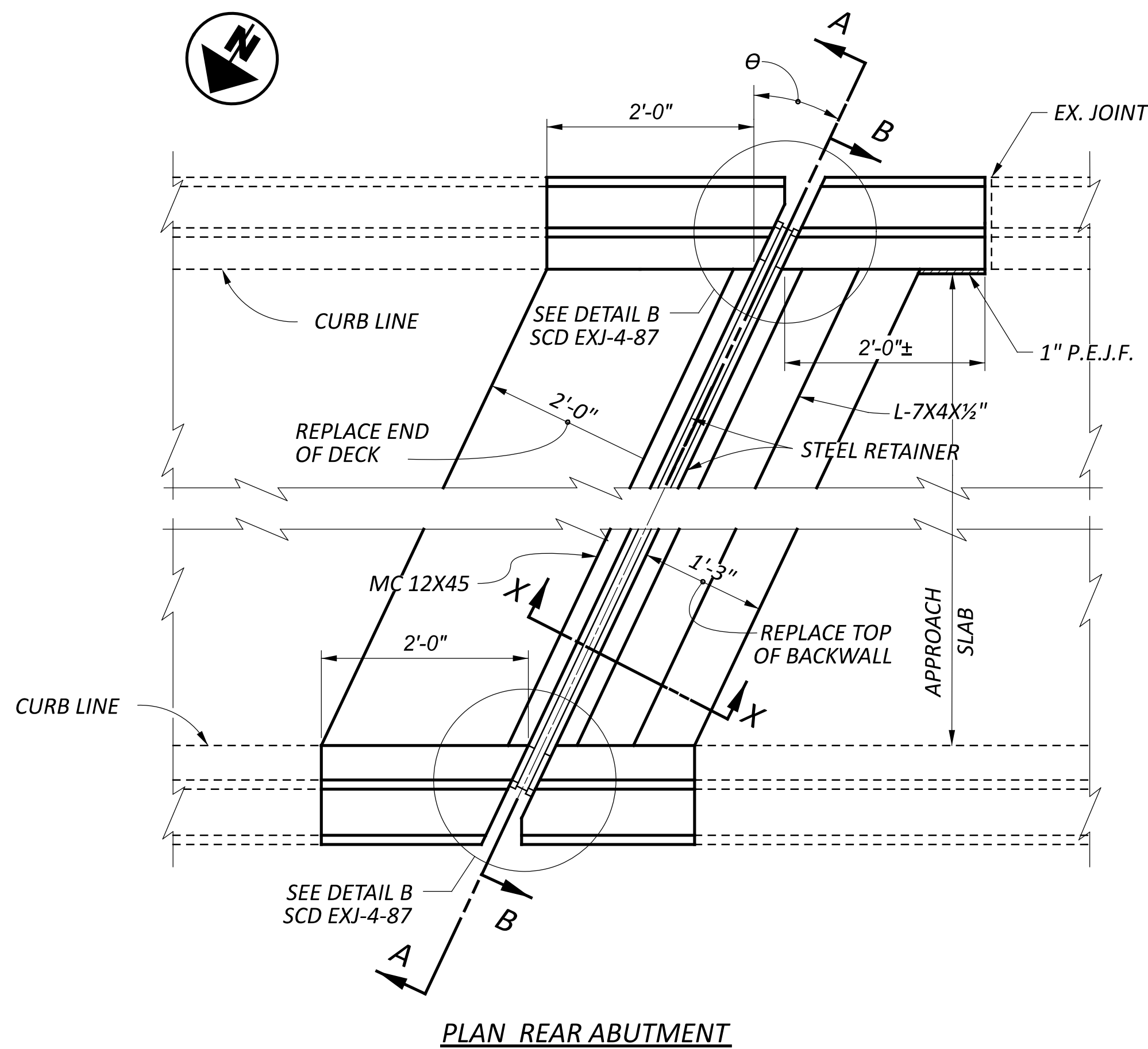




FORWARD ABUTMENT AND DECK PARTIAL PLAN

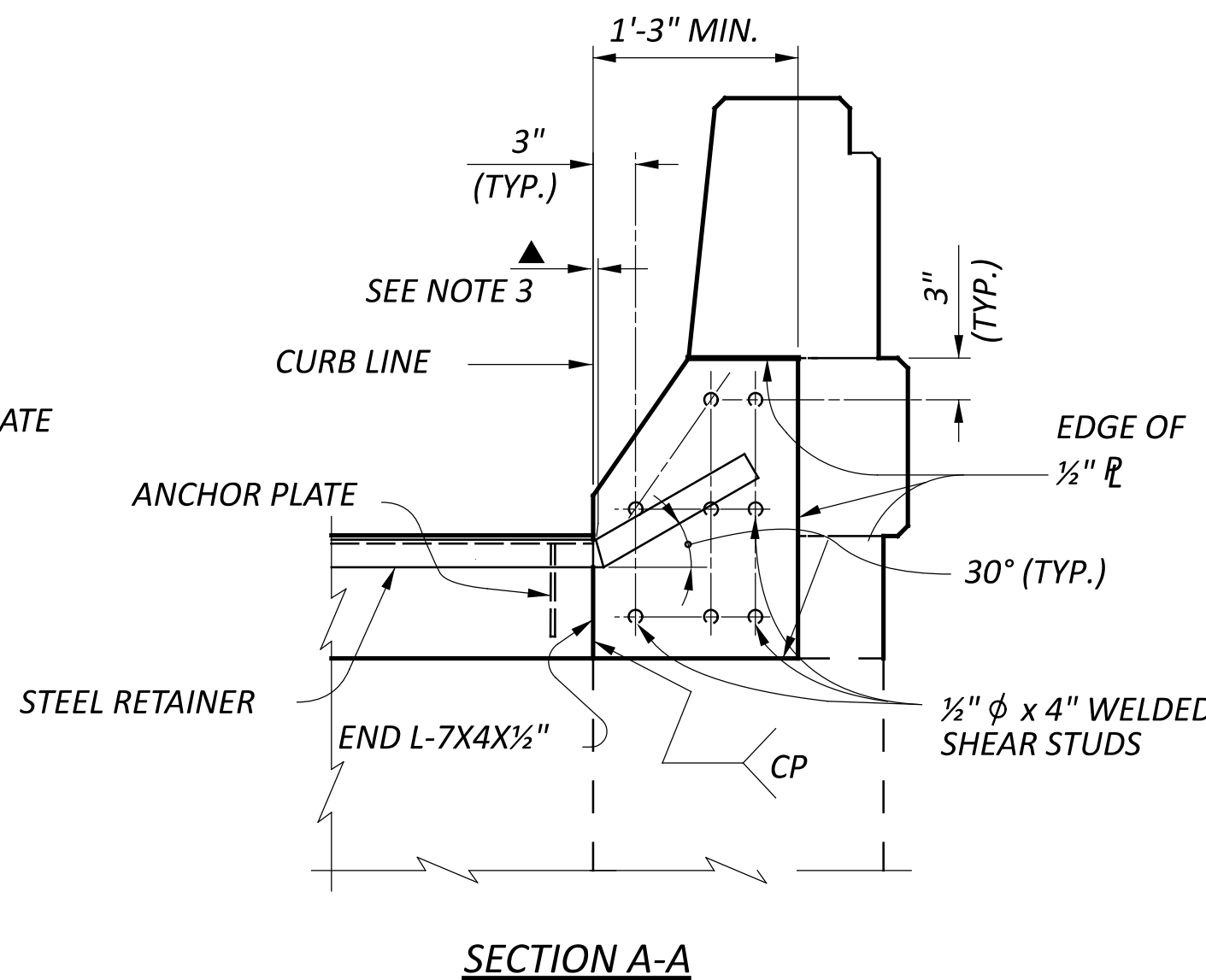
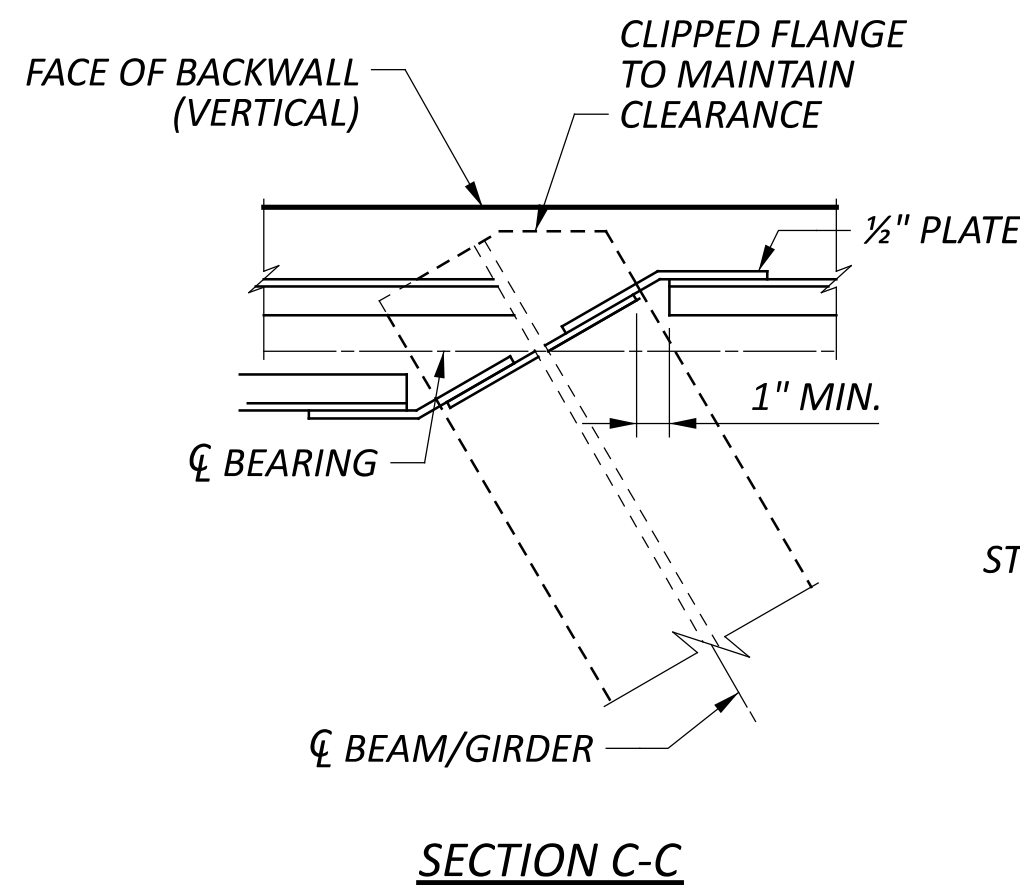
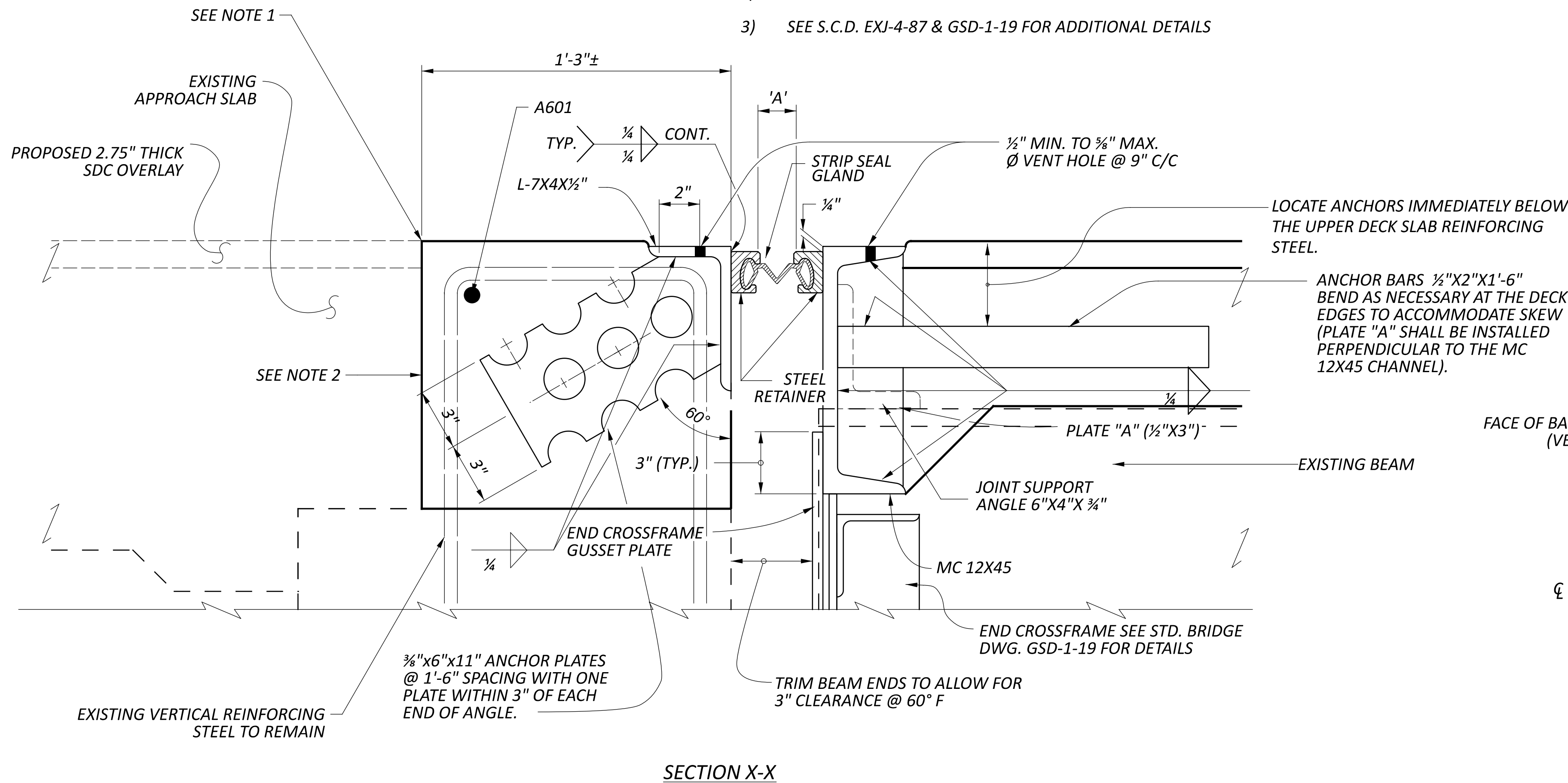
NOTES

- 1) TRIM EXISTING LONGITUDINAL DECK REINFORCEMENT AS NECESSARY TO MAINTAIN 2" CLEARANCE TO END OF DECK
- 2) SEE SHEET ## FOR SECTIONS



NOTES

- 1) INSTALL HOT APPLIED JOINT SEALER, 705.04 (2" DEEP x 1" WIDE)
- 2) TYPE E WATERPROOFING
- 3) SEE S.C.D. EXJ-4-87 & GSD-1-19 FOR ADDITIONAL DETAILS





3101207

DESIGN AGENCY

DESIGNER	CHECKER
GTF	DLT

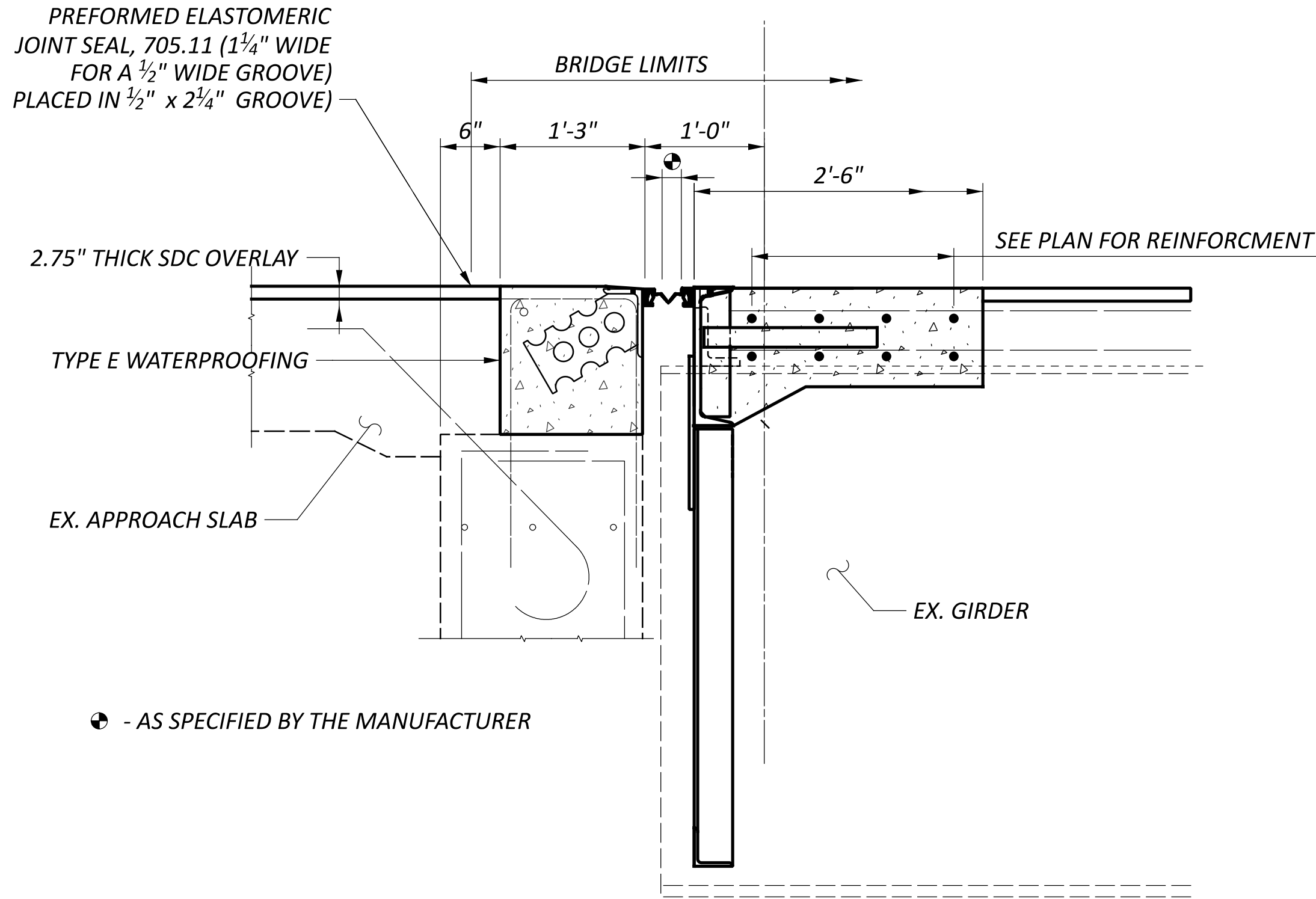
REVIEWER

DAH 09/18/26

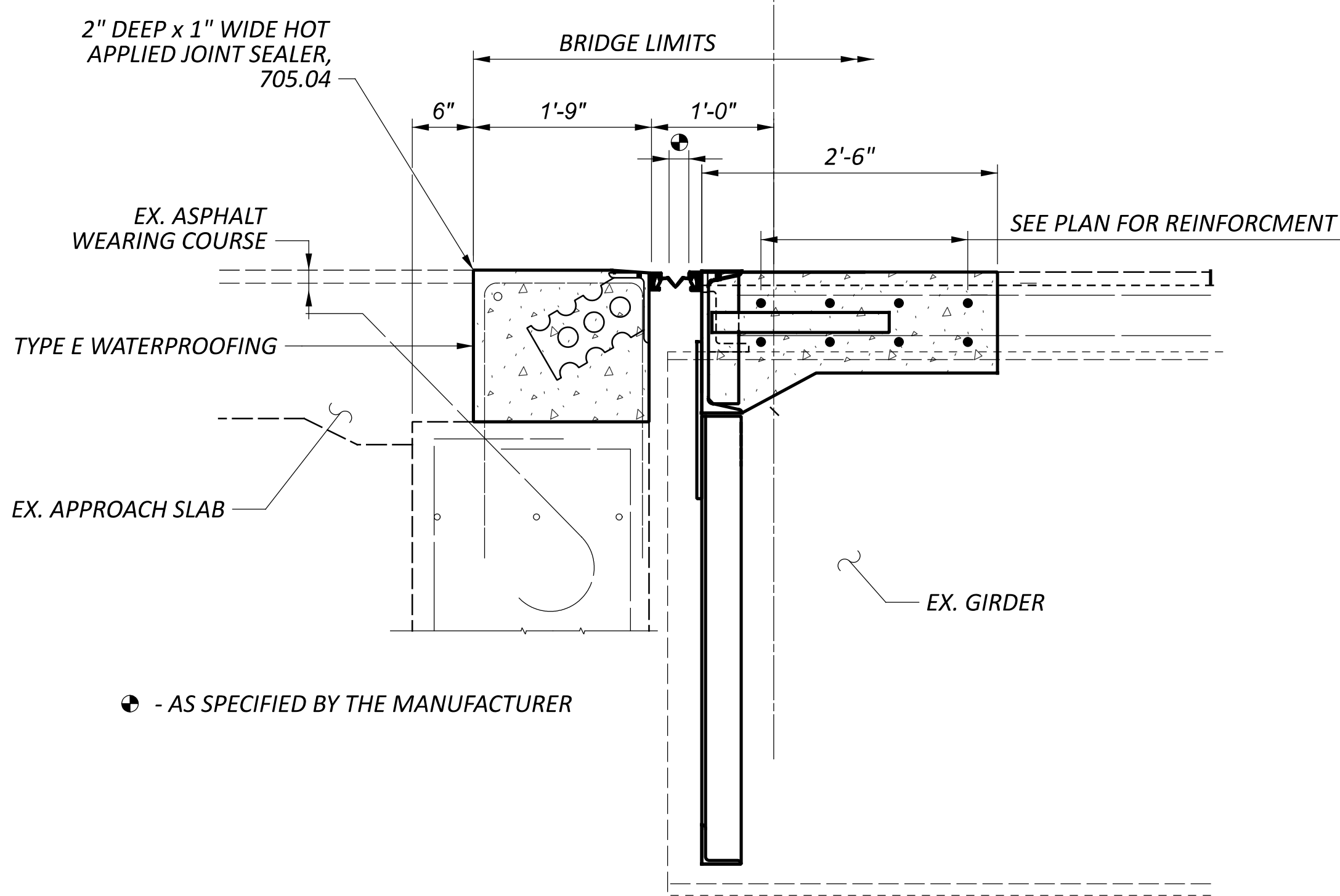
PROJECT ID

114671

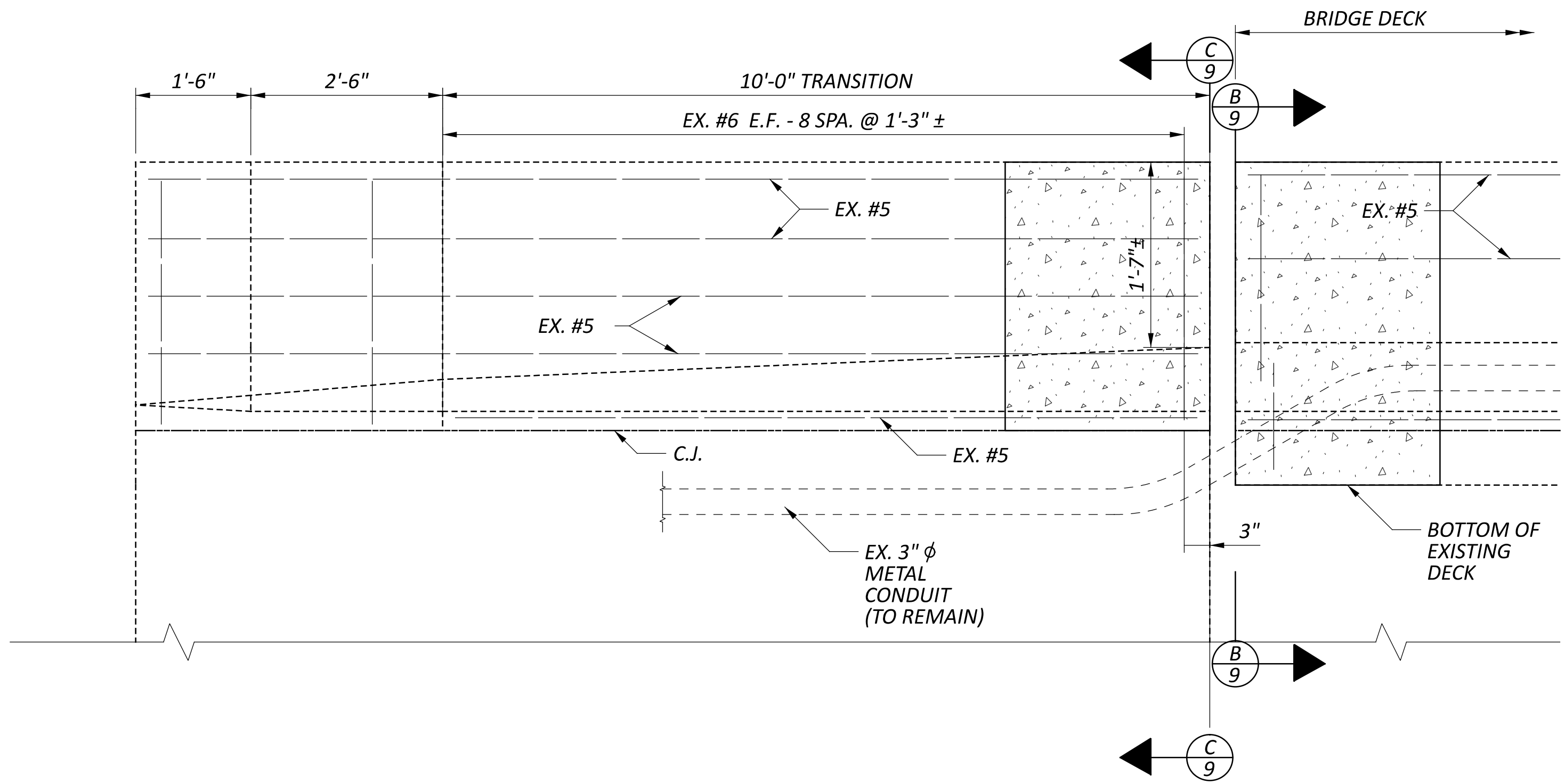
UNSUBSET	TOTAL
14	15
MEET	TOTAL
36	41



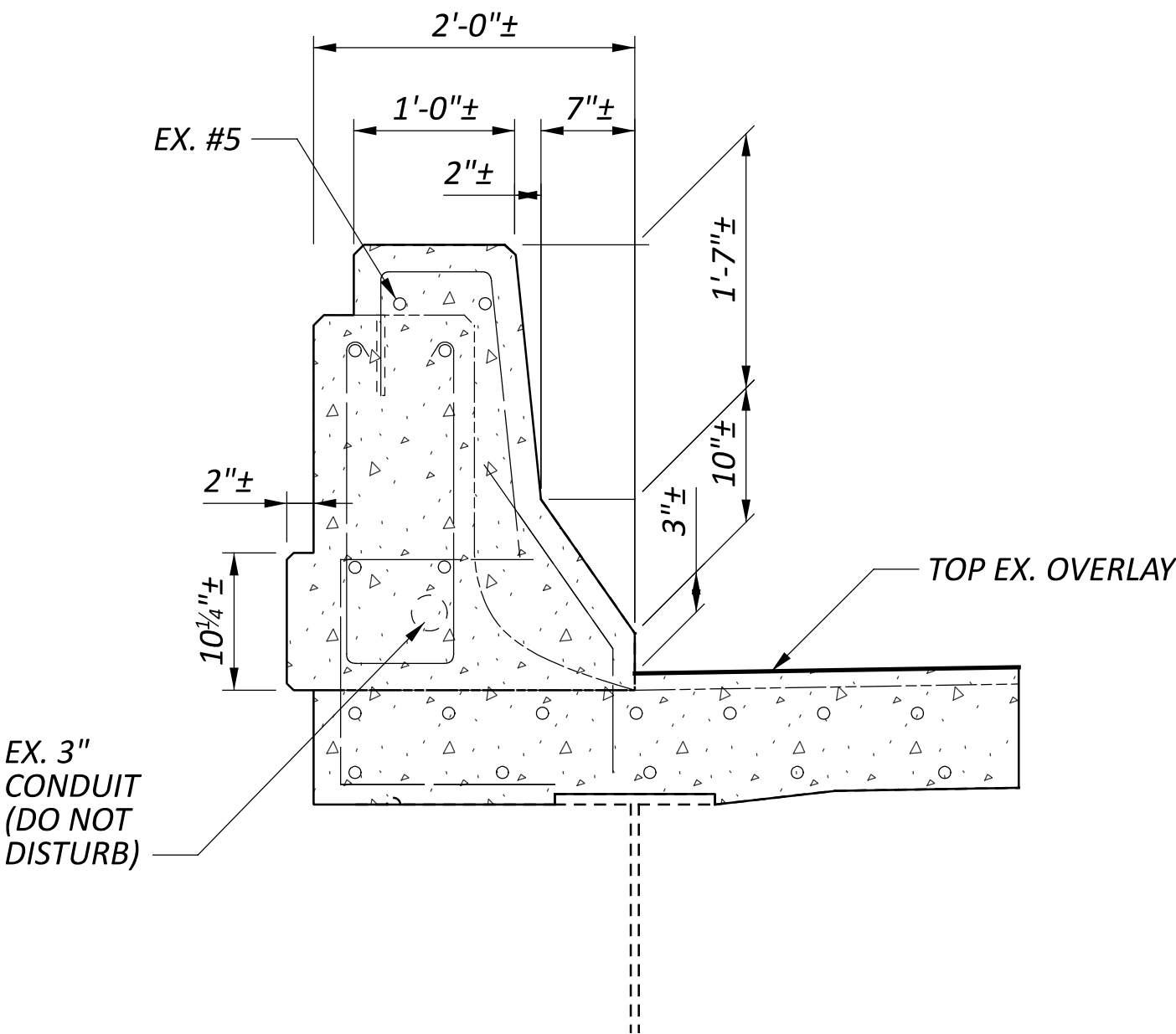
ABUTMENT CONSTRUCTION SECTION A-A



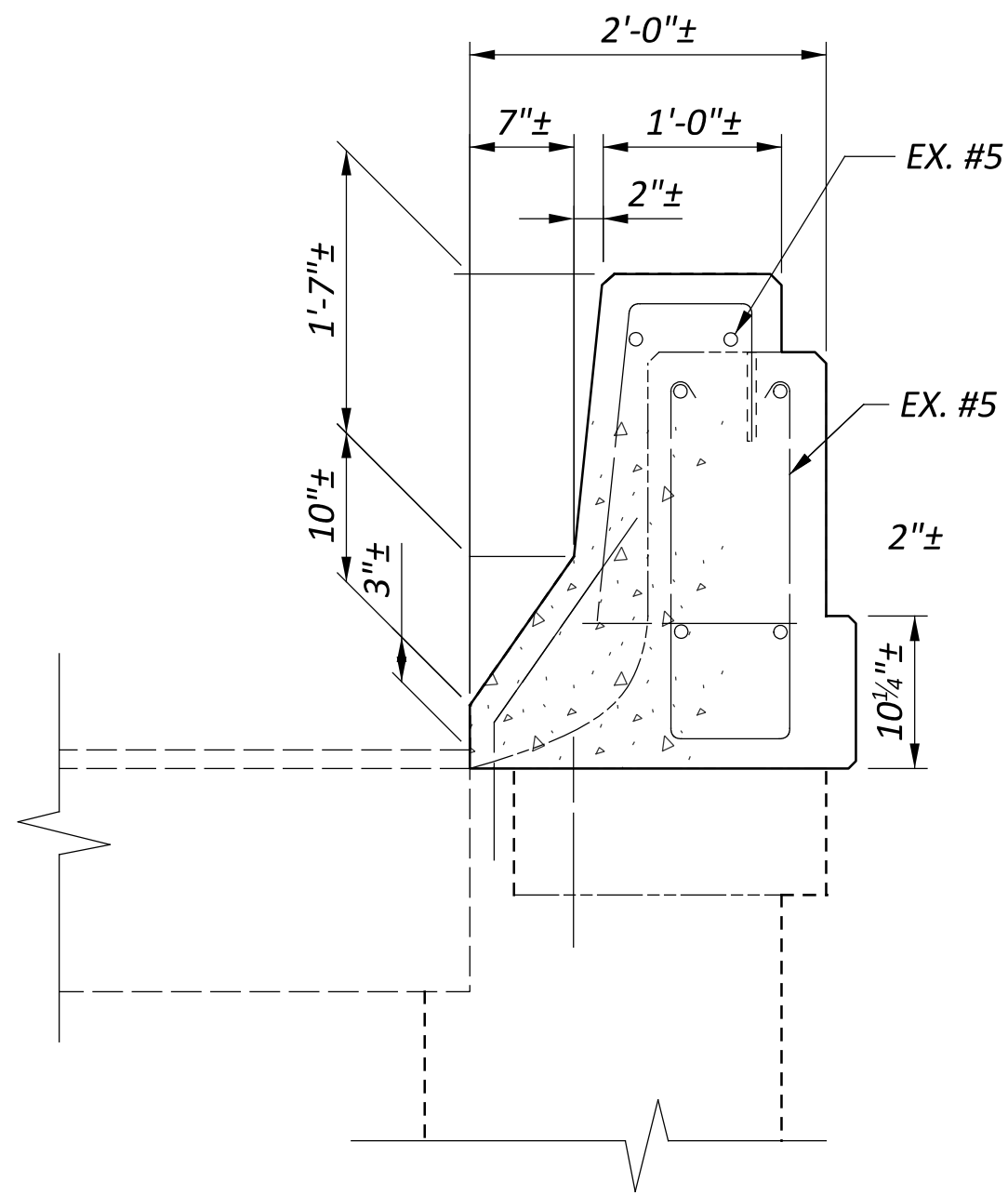
REAR ABUTMENT CONSTRUCTION SECTION A-A



TYPICAL WINGWALL ELEVATION
(VIEWED ALONG FRONT FACE)



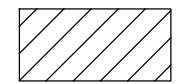
SECTION B



SECTION C
BARS NOT LABELED ARE S501

SFN	
3101207	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	DLT
REVIEWER	
CAH 09/18/26	
PROJECT ID	
114671	
SUBSET	TOTAL
15	15
SHEET	TOTAL
37	41

LEGEND

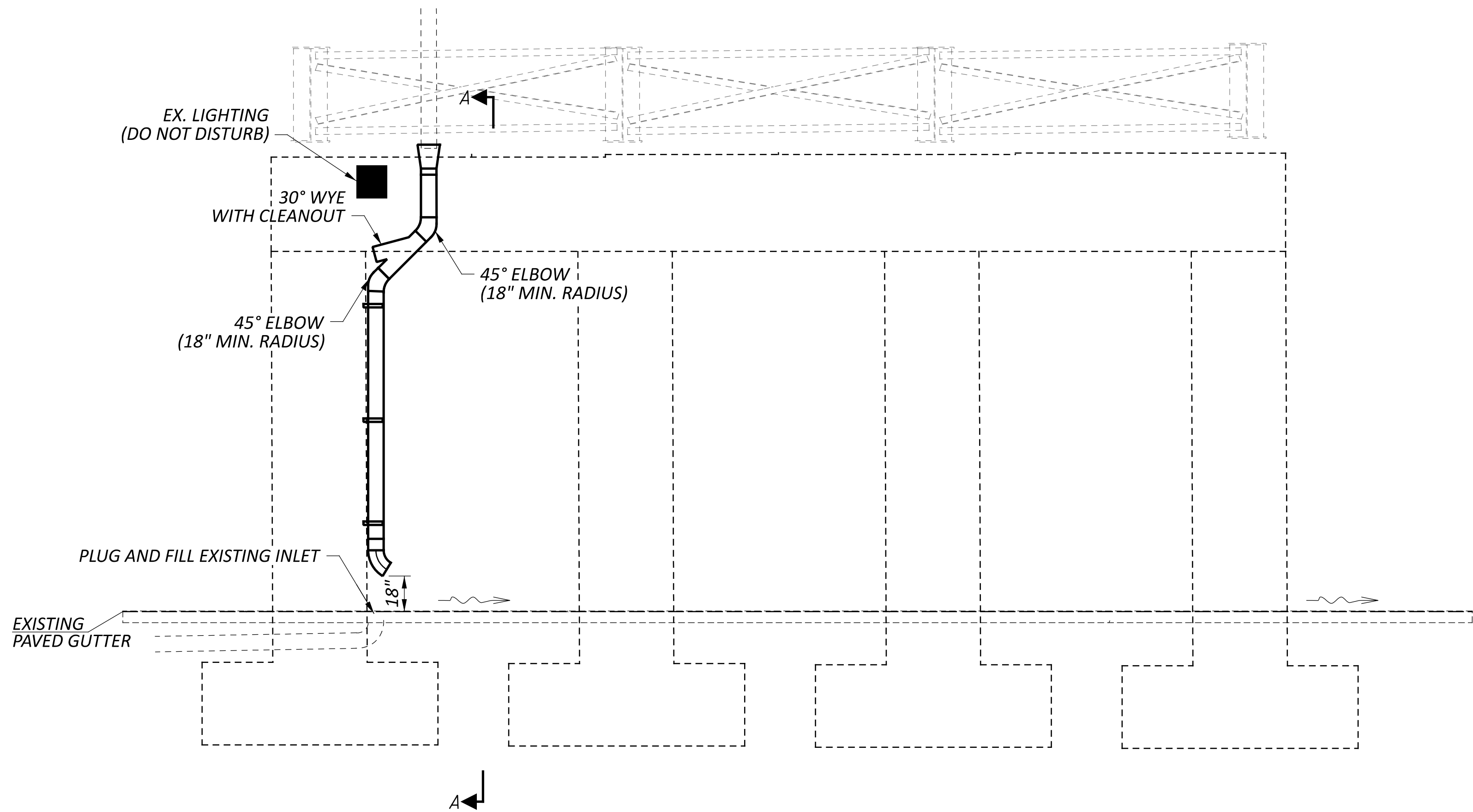
 - REMOVAL LIMITS OF EXISTING DOWNSPOUTS

NOTES:

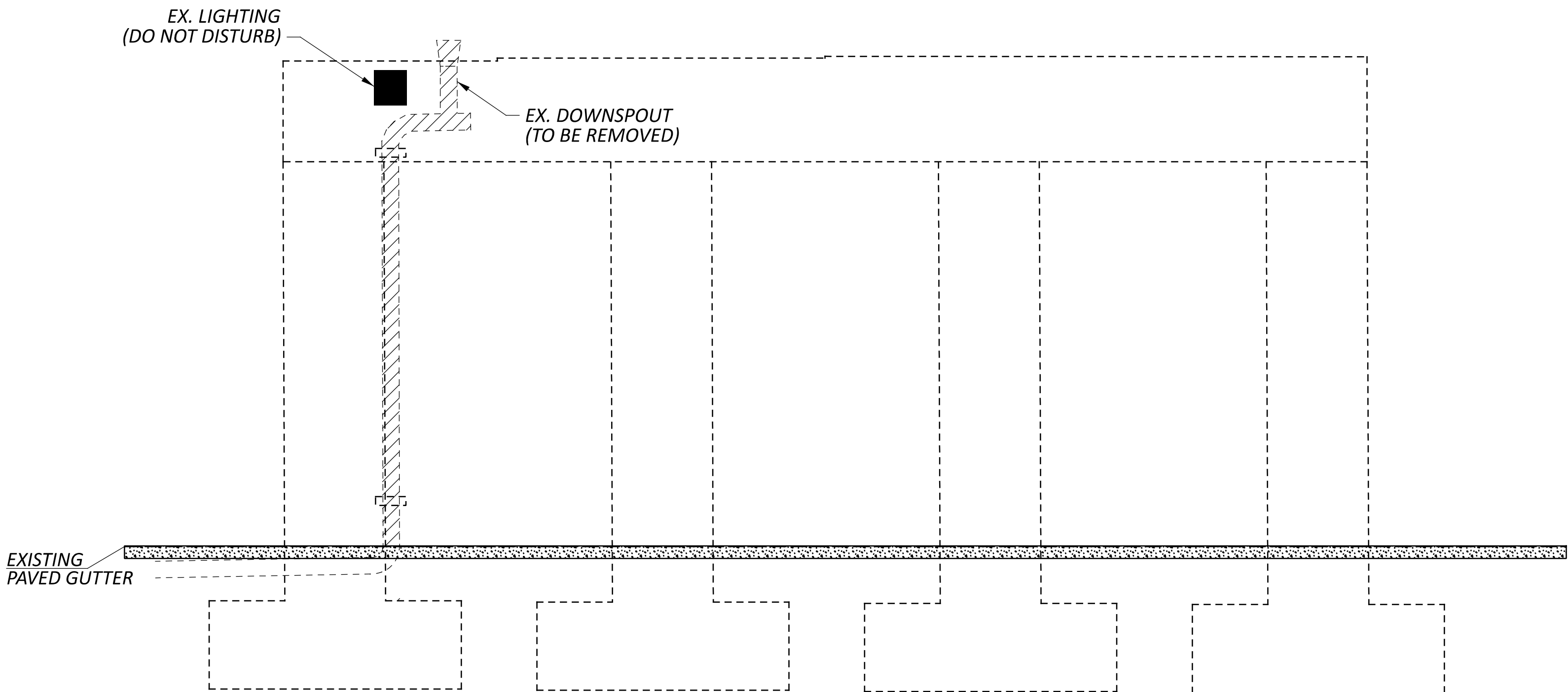
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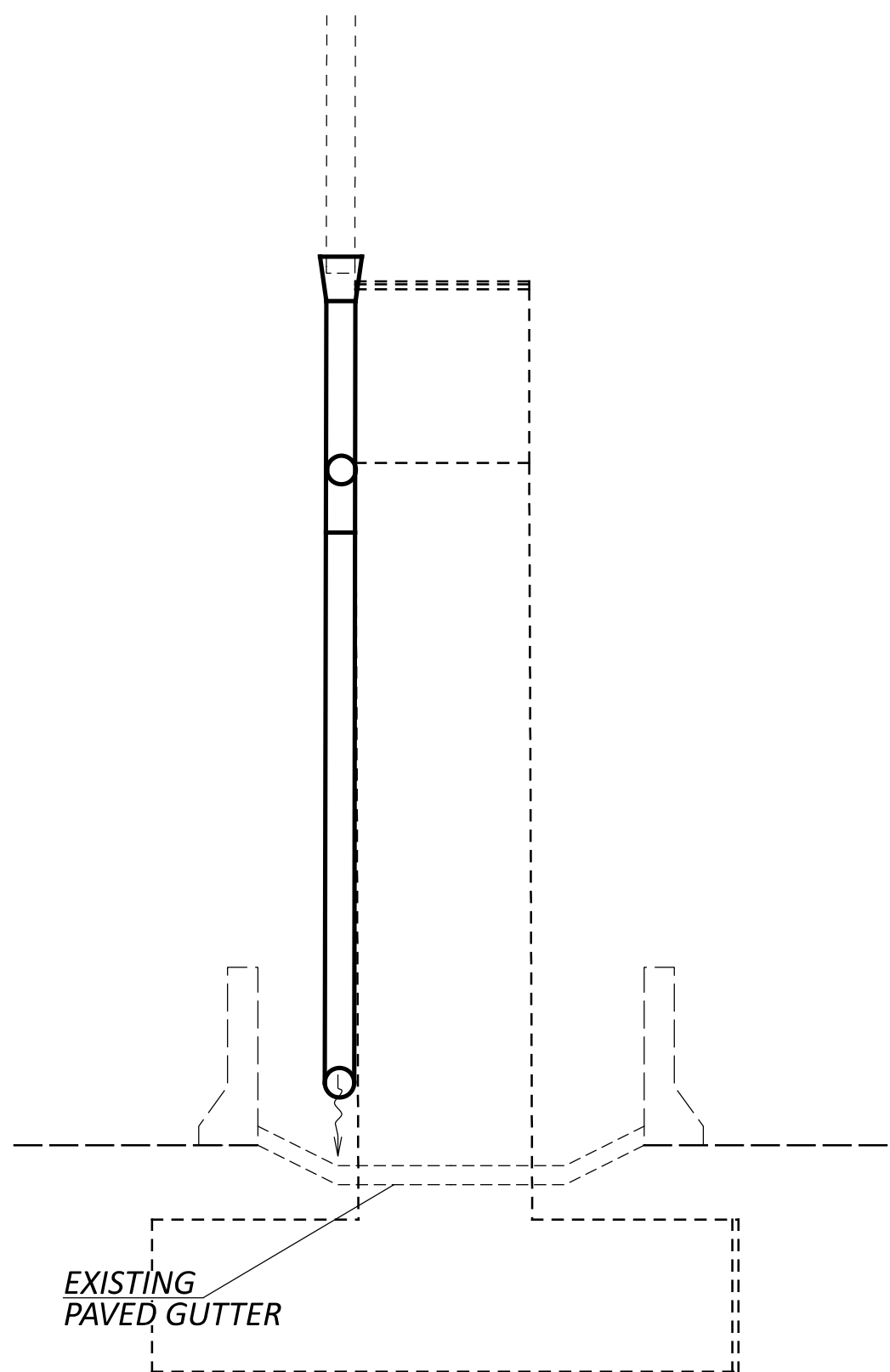
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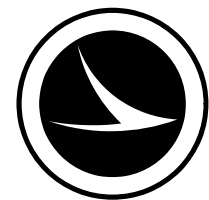
PIER 1 DOWNSPOUT CONSTRUCTION
(WEST FACE)



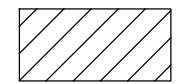
PIER 1 DOWNSPOUT REMOVAL
(WEST FACE)



VIEW A-A



LEGEND

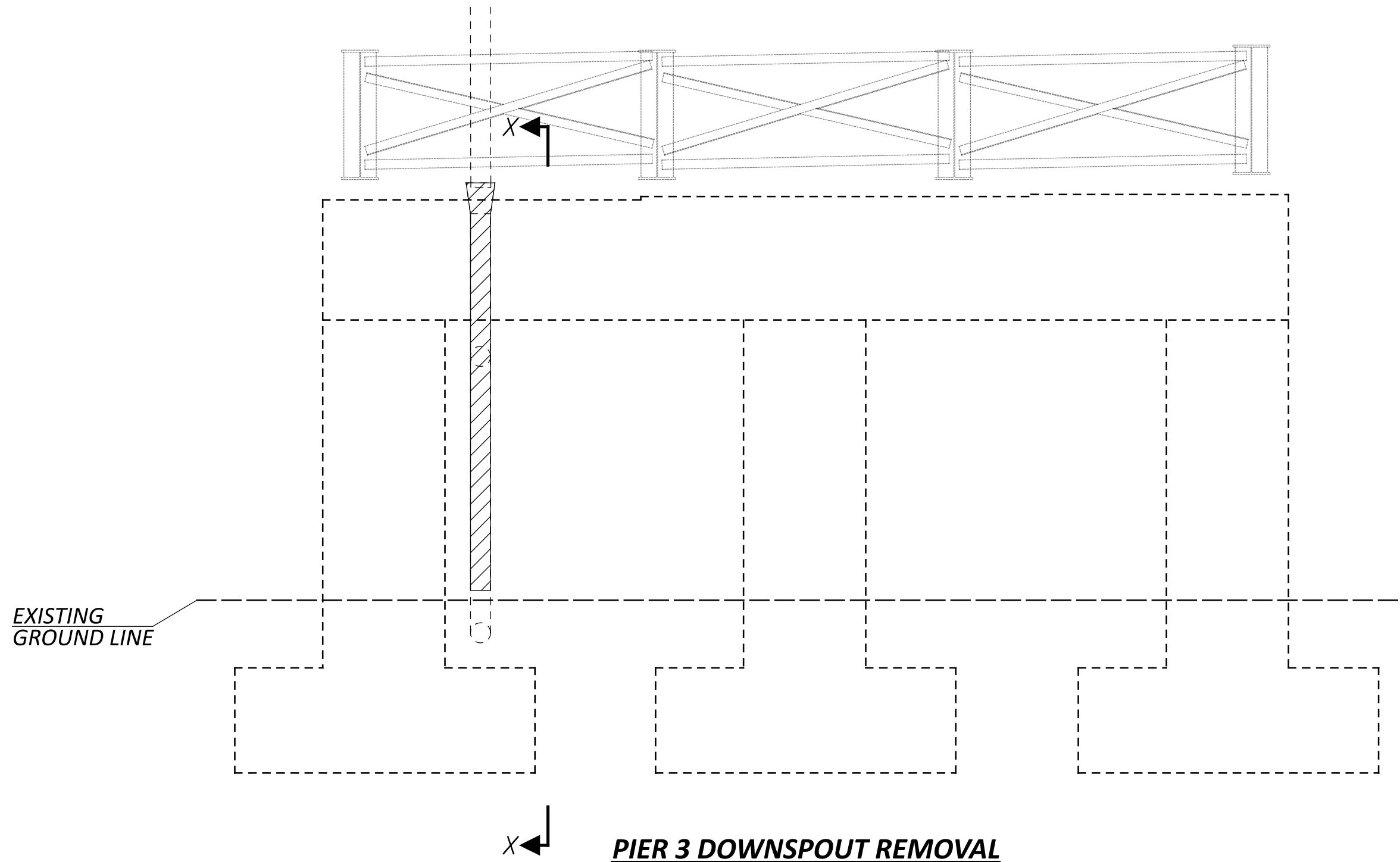
 - REMOVAL LIMITS OF EXISTING DOWNSPOUTS

NOTES:

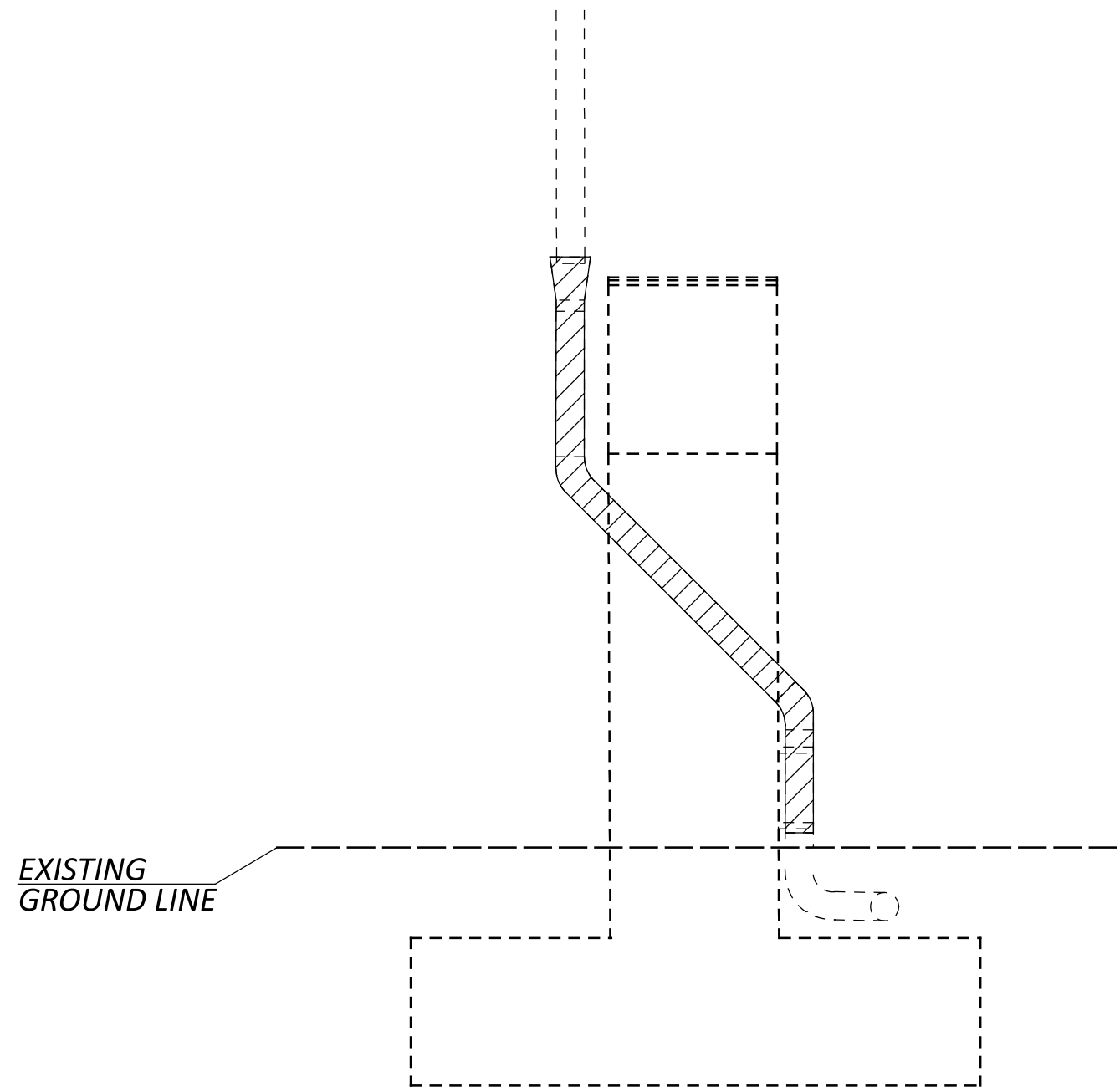
- DIMENSIONS SHOWN SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT PROPOSED DRAINAGE SYSTEM LOCATIONS & PREPARE DETAILED SHOP DRAWINGS INDICATING THE PROPOSED SIZES, FITTINGS, CONNECTIONS, AND OTHER PERTINENT INFORMATION PRIOR TO COMMENCING REPAIR WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO ORDERING MATERIALS.
- REMOVAL LOCATIONS TO COINCIDE WITH PROPOSED WORK LOCATIONS SHOWN. REMOVALS TO BE PAID UNDER ITEM 202 - PORTIONS OF STRUCTURE REMOVED.
- ALL PROPOSED DRAIN PIPES AND FITTINGS SHALL BE FINISHED IN FEDERAL STANDARD COLOR NO. 26622 IN ACCORDANCE WITH SAE-AMS-STD-595. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT MATERIALS THAT ARE COMPATIBLE WITH THIS COLOR FINISH AND CAPABLE OF ACCEPTING AND RETAINING THE SPECIFIED COLOR THROUGH APPROPRIATE COATING OR MANUFACTURING PROCESSES.

ALL DRAIN PIPES AND FITTINGS SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF C&MS 518.07. FITTINGS SHALL BE OF THE SAME MATERIAL AND QUALITY AS THE PIPE, WITH WATERTIGHT JOINTS OF ADEQUATE STRENGTH, AND SHALL BE FINISHED TO MATCH THE SPECIFIED COLOR.

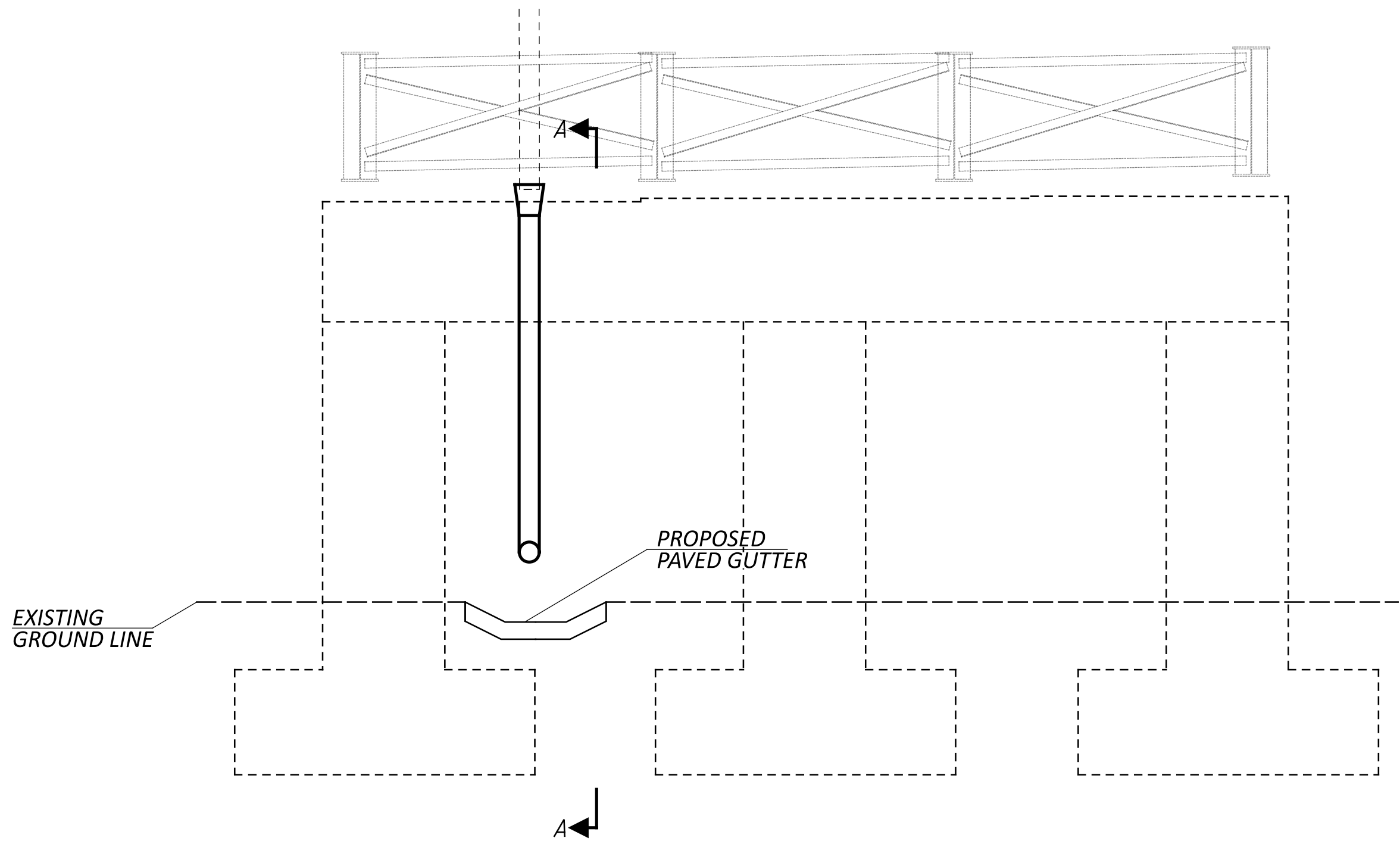
PAYMENT FOR ALL WORK DESCRIBED HEREIN, INCLUDING FURNISHING, FINISHING, AND INSTALLING THE DRAIN PIPES AND FITTINGS IN THE SPECIFIED COLOR, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE PIPE PAY ITEM. NO ADDITIONAL PAYMENT WILL BE MADE FOR COATINGS OR FINISHES, REGARDLESS OF THE METHOD USED TO ACHIEVE THE SPECIFIED COLOR.



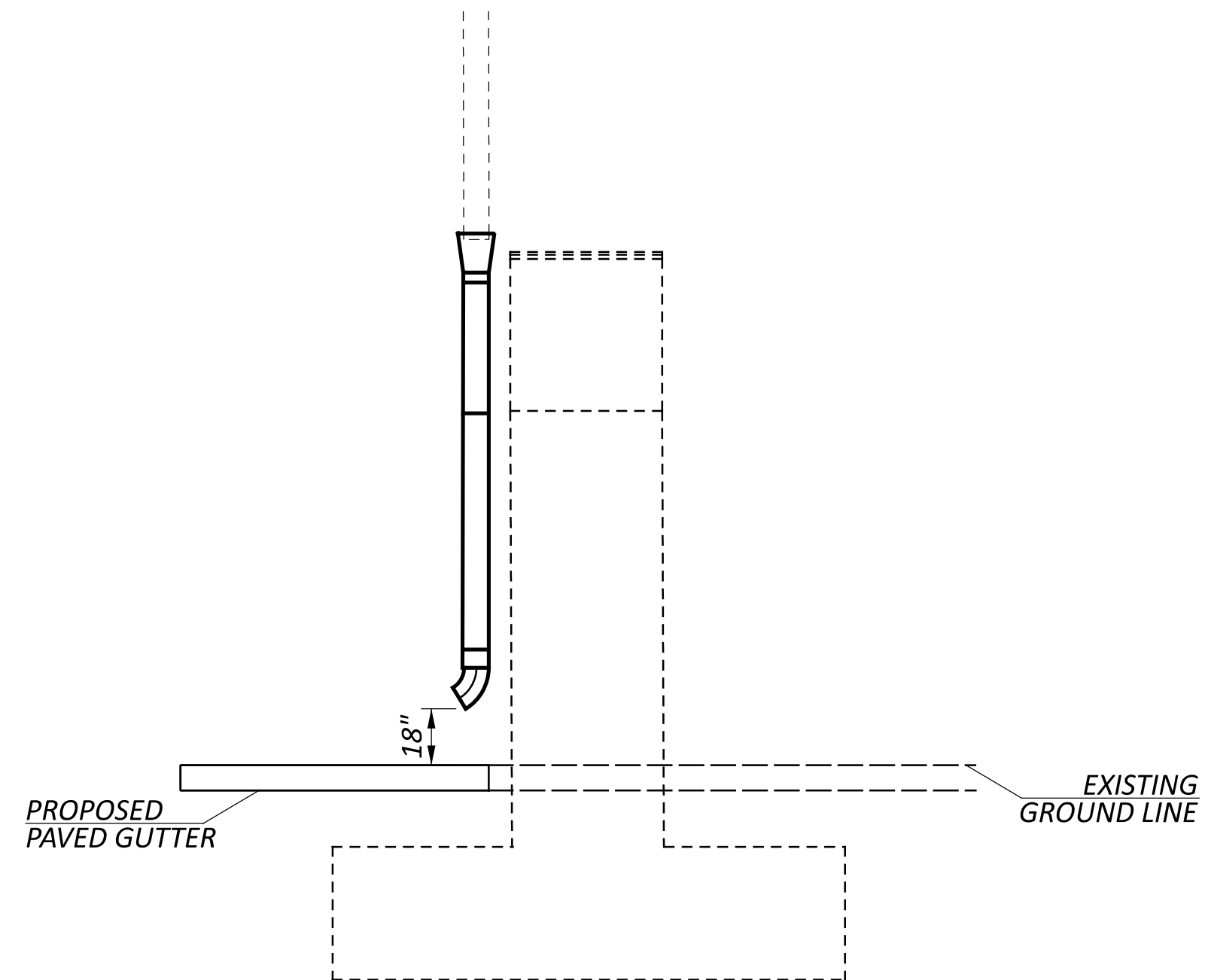
PIER 3 DOWNSPOUT REMOVAL



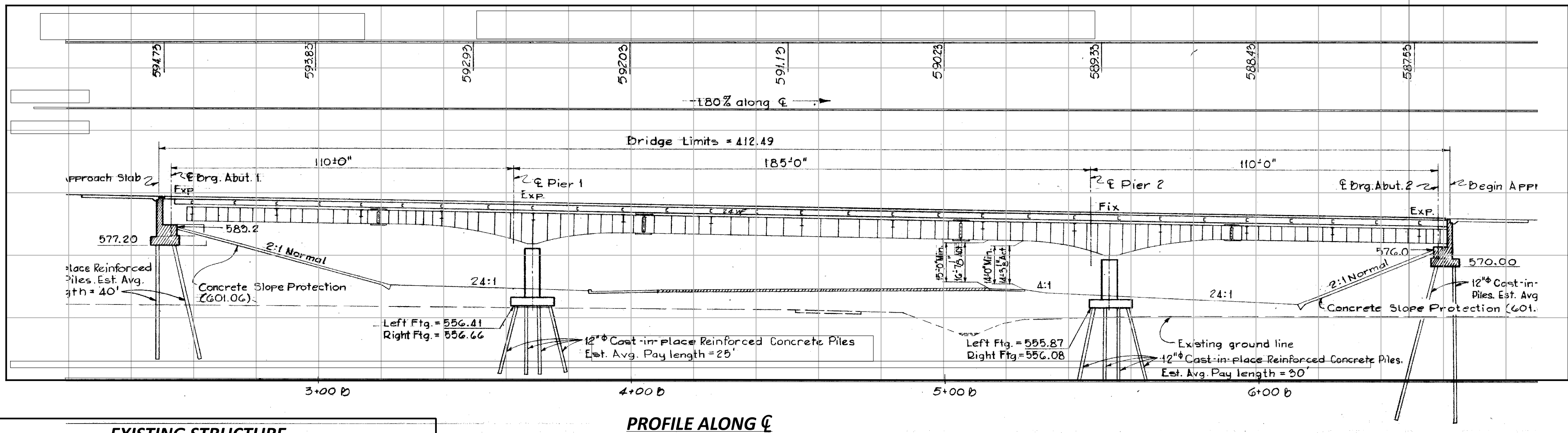
VIEW A-A
(GIRDER NOT SHOWN FOR CLARITY)



PIER 3 DOWNSPOUT CONSTRUCTION
(SOUTH FACE)



VIEW A-A
(GIRDER NOT SHOWN FOR CLARITY)



TYPE: CONTINUOUS WELDED PLATE GIRDER WITH REINFORCED CONCRETE
DECK AND SUBSTRUCTURE

SPANS: 110'-0"±, 185'0"±, 110'-0"±

ROADWAY: 26'-0"± F/F OF PARAPETS

LOADING: C.F.=2000 (57)

SKEW: 30°0'0" ± L.F.

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-67 SPECIAL (25'-0" LONG)

ALIGNMENT: 23°0'0" CURVE RIGHT, 24°59'49" CURVE LEFT

CROWN: VARIES

STRUCTURE FILE NUMBER: 3115135

DATE BUILT: 1972

DISPOSITION: SEE PROPOSED WORK

DISPOSITION: LATITUDE: 39° 9' 54" N
LONGITUDE: 84° 25' 41" W

- 1) REPLACE THE EXISTING OVERLAY USING HYDRODEMOLITION WITH 2.75" THICK SDC OVERLAY WITH MACROFIBERS PER SS 848.
- 2) SPOT PAINT ABUTMENT AND PIER BEARINGS, FIRST OVERHANG BRACKET WEST OF PIER 1 ON SOUTH FASCIA, FOURTH HORIZONTAL STIFFENER ON SOUTH FASCIA EAST OF PIER 1, TOP OF BOTTOM FLANGE AT SPLICE EAST OF PIER 2 ON SOUTH FASCIA INCLUDING SOUTH FLANGE EDGE AND 1' OF WEB, AND BOTTOM FLANGE ON NORTH GIRDER AND EDGES FROM THE STIFFENER IMMEDIATELY WEST OF FIELD SPLICE 3 TO THE 5 STIFFENER WEST OF FIELD SPLICE 3.
- 3) REPLACE THE EXISTING DOWNSPOUTS HANGERS/SUPPORTS EAST OF I-71 WITH NEW GALVANIZED DOWNSPOUTS AND CONNECTIONS.
- 4) CLEANOUT EXISTING DRAINAGE SYSTEM.

DETAILS ON THIS SITE PLAN SHEET ARE FROM ARCHIVED PLANS
AND SHOULD BE USED FOR REFERENCE ONLY.

RAMP FROM ALAMO AVE. / RIDGE AVE. TO IR 71 SB

2028 ADT =	13,500	2028 ADTT =	270
2048 ADT =	14,500	2048 ADTT =	290

DIRECTIONAL DISTRIBUTION = 100%

DESIGN FUNCTIONAL CLASSIFICATION: 01 INTERSTATE (URBAN)

IR-71

2028 ADT =	118,000	2028 ADTT =	14,160
2048 ADT =	122,000	2048 ADTT =	14,640

DIRECTIONAL DISTRIBUTION = 70%

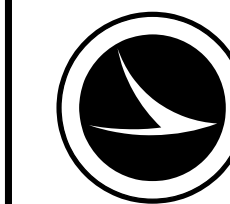
DESIGN FUNCTIONAL CLASSIFICATION: 01 INTERSTATE (URBAN)

● 16'-6" REQUIRED MINIMUM VERTICAL CLEARANCE
14'-3" ACTUAL MINIMUM VERTICAL CLEARANCE

SITE PLAN
BRIDGE NO.: HAM-71-0822R
RAMP FROM RIDGE ROAD OVER NB IR 71

SFN
3115135

DESIGN AGENCY



DESIGNER	CHECKER
XXX	XXX

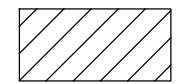
REVIEWER

PROJECT ID
114671

SUBSET	TOTAL
0	0

SHEET	TOTAL
P.0	0

LEGEND

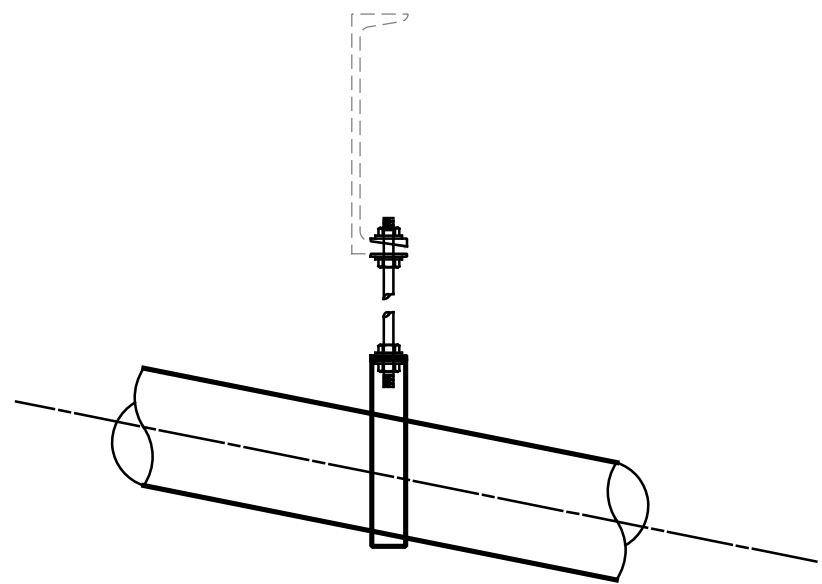
 - REMOVAL LIMITS OF EXISTING DOWNSPOUTS

NOTES:

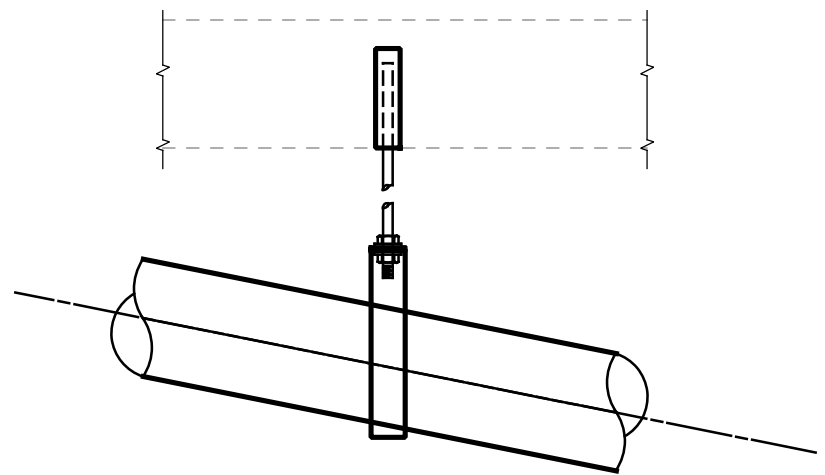
- DIMENSIONS SHOWN SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT PROPOSED DRAINAGE SYSTEM LOCATIONS & PREPARE DETAILED SHOP DRAWINGS INDICATING THE PROPOSED SIZES, FITTINGS, CONNECTIONS, AND OTHER PERTINENT INFORMATION PRIOR TO COMMENCING REPAIR WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO ORDERING MATERIALS.
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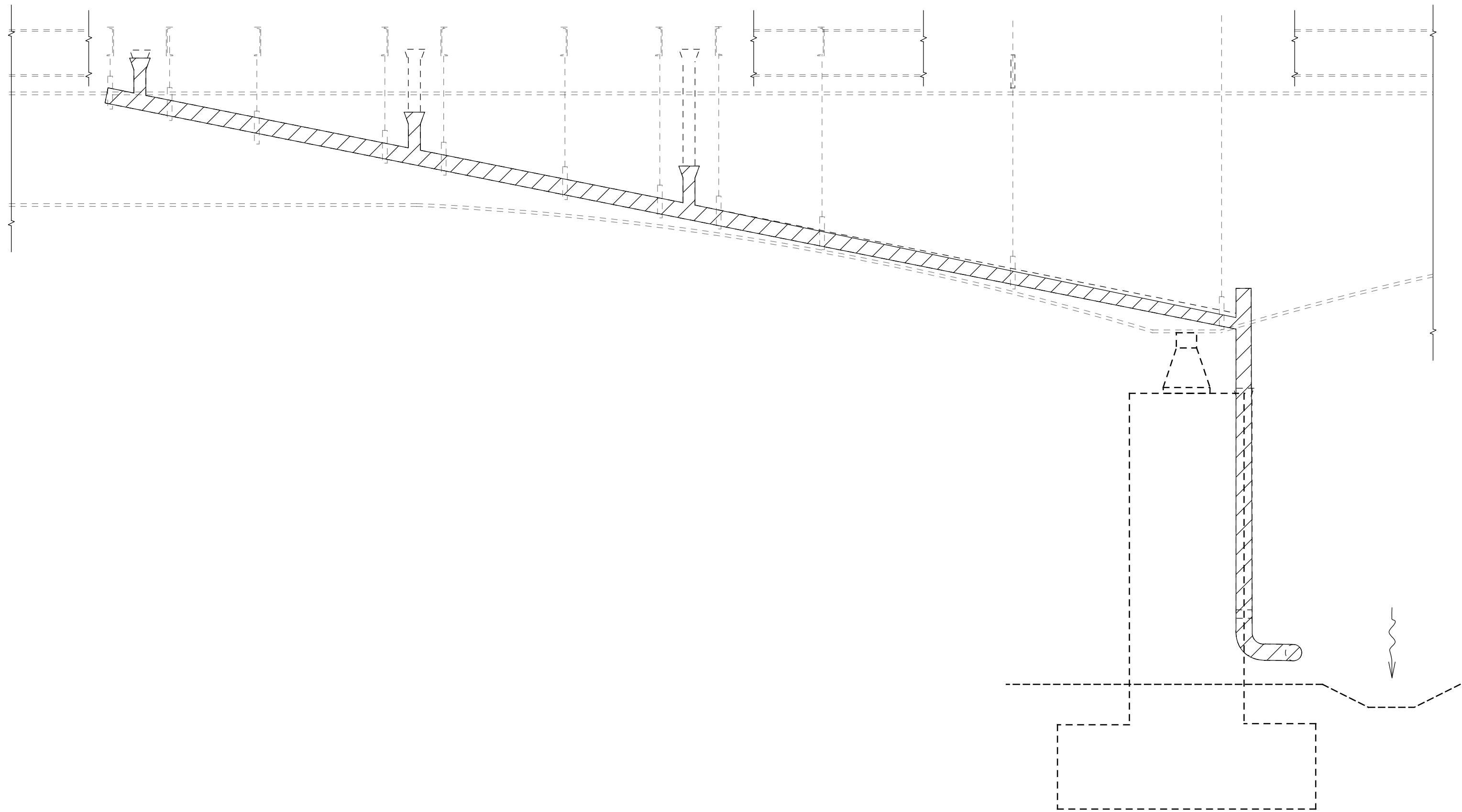
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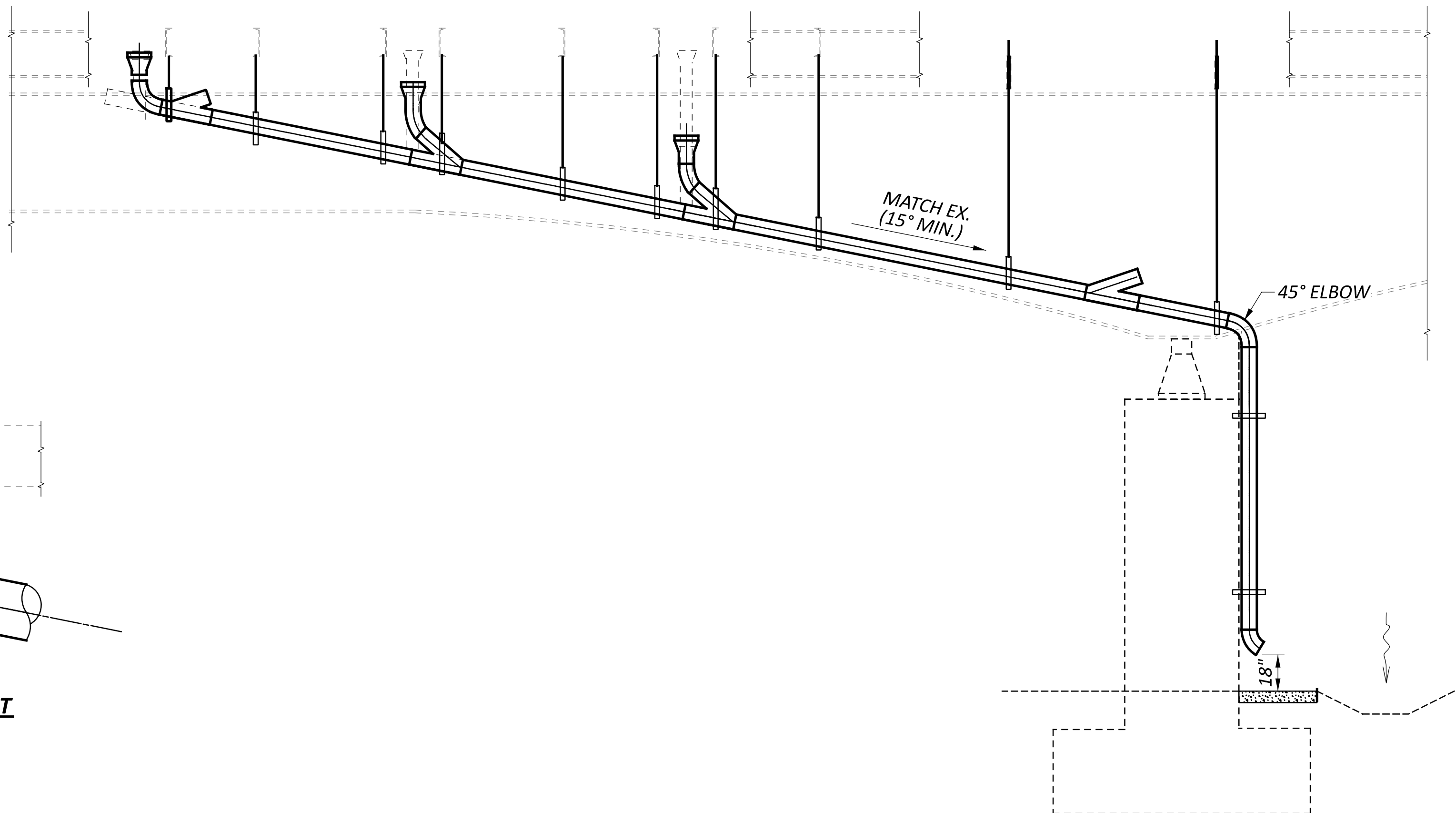
HANGER SUPPORT
DETAIL 'A'



HANGER SUPPORT
DETAIL 'B'



PIER 2 DOWNSPOUT REMOVAL



PIER 2 DOWNSPOUT CONSTRUCTION

DOWNSPOUT REPLACEMENT DETAILS

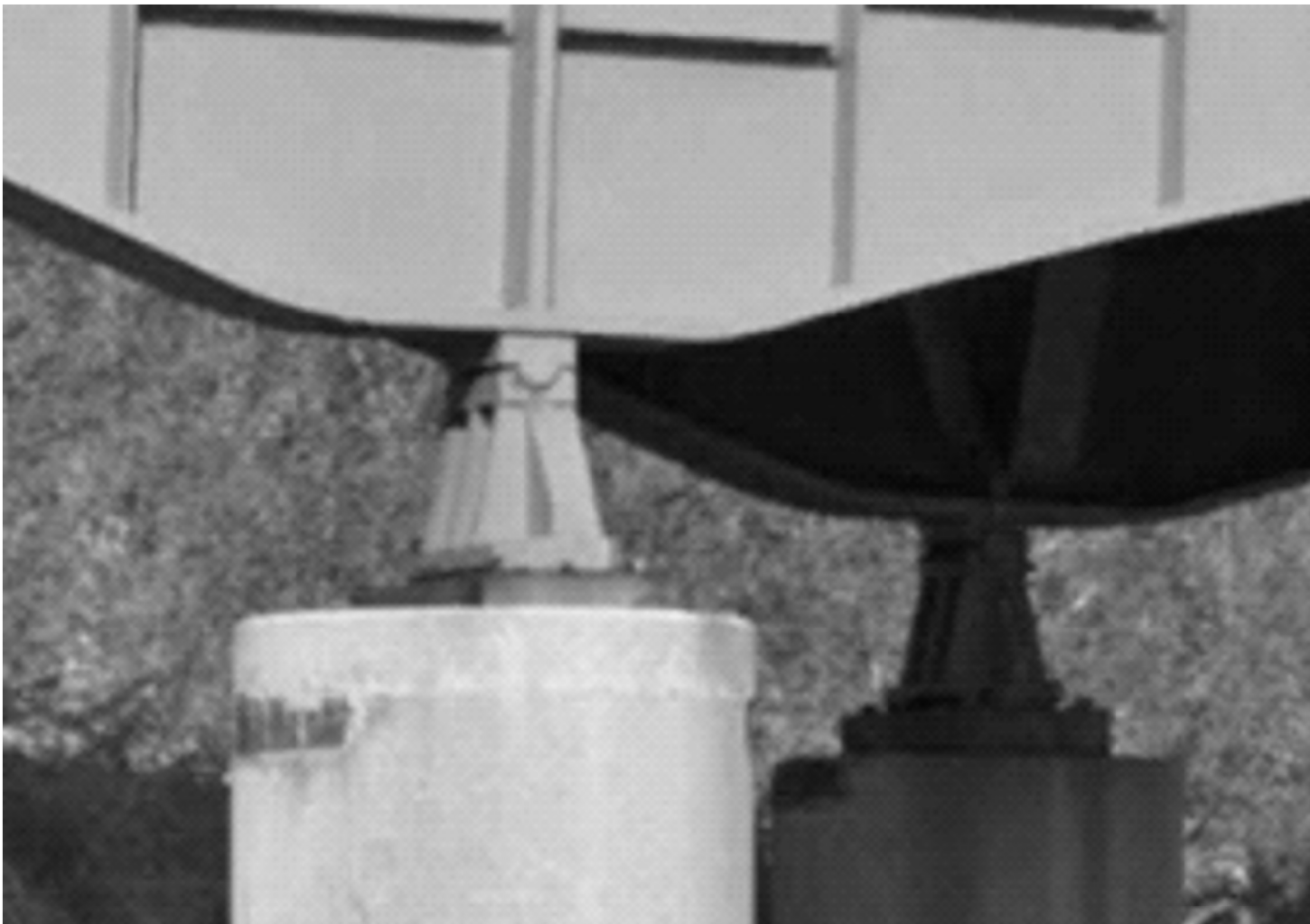
BRIDGE No.: HAM-71-0822R

RAMP FROM RIDGE AVE. / ALAMO AVE. TO SOUTHBOUND IR 71 OVER NORTHBOUND IR 71

SFN 3115135	
DESIGN AGENCY	
	
DESIGNER GTF	CHECKER DLT
REVIEWER CAH 09/18/26	
PROJECT ID 114671	
SUBSET 2	TOTAL 4
SHEET 39	TOTAL 41



TYPICAL ABUTMENT BEARING



TYPICAL PIER BEARING

NOTES:

1. PHOTOGRAPHS ON THIS SHEET SHOW THE STRUCTURAL STEEL LOCATIONS THAT ARE TO BE SURFACE PREPARED AND SPOT PAINTED PER 514 OZEU SPECIFICATIONS AND THE "ITEM 514 - FIELD PAINTING, MISC.: SPOT PAINTING OF STRUCTURE STEEL NEAR EXPANSIONS JOINTS" NOTE ON SHEET 5.

LEGEND

- LOCATION 'A' - FIRST OVERHANG BRACKET WEST OF PIER 1 ON SOUTH FASCIA.
LOCATION 'B' - FOURTH HORIZONTAL STIFFENER ON SOUTH FASCIA EAST OF PIER 1



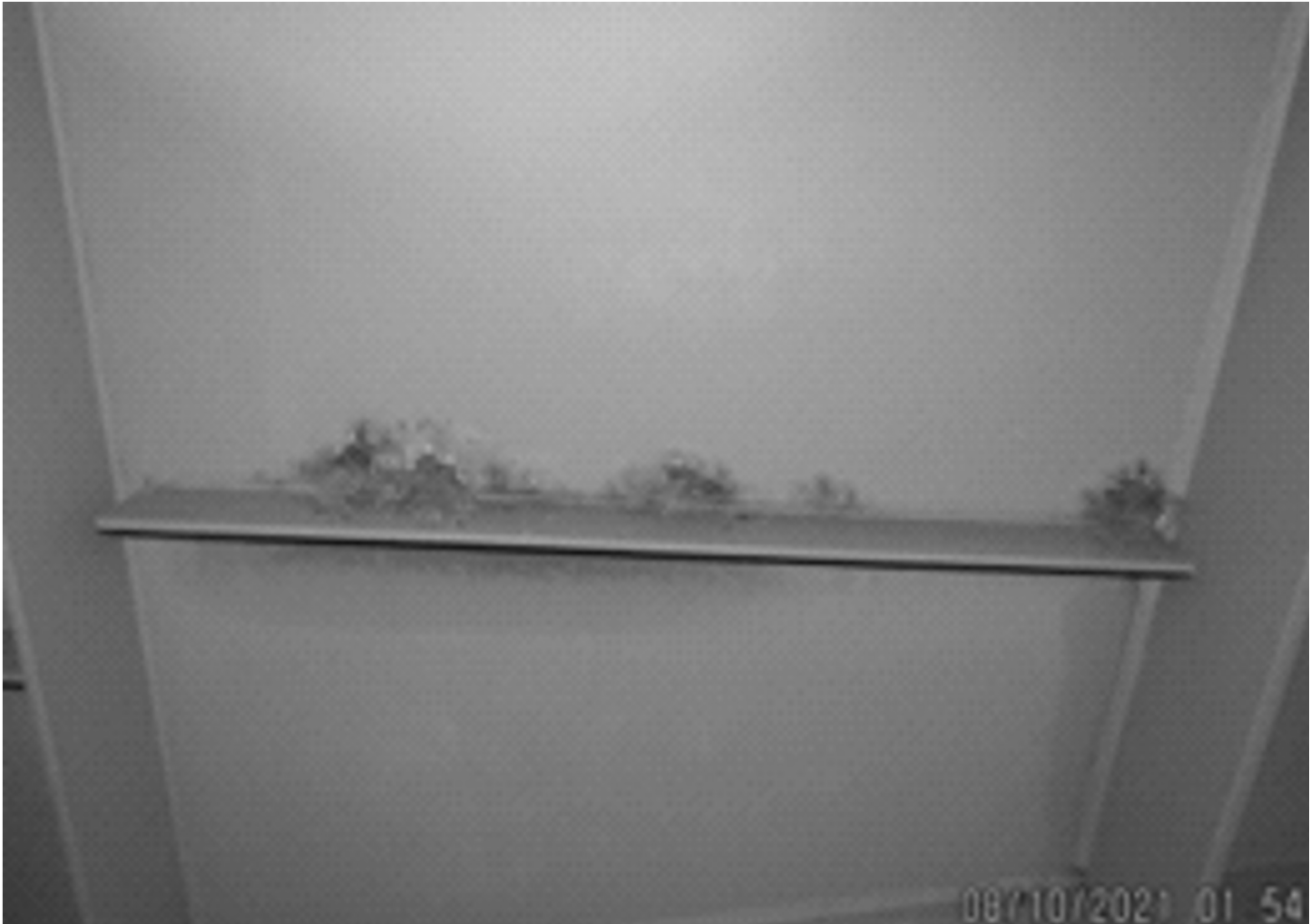
LOCATION 'A'



LOCATION 'A'



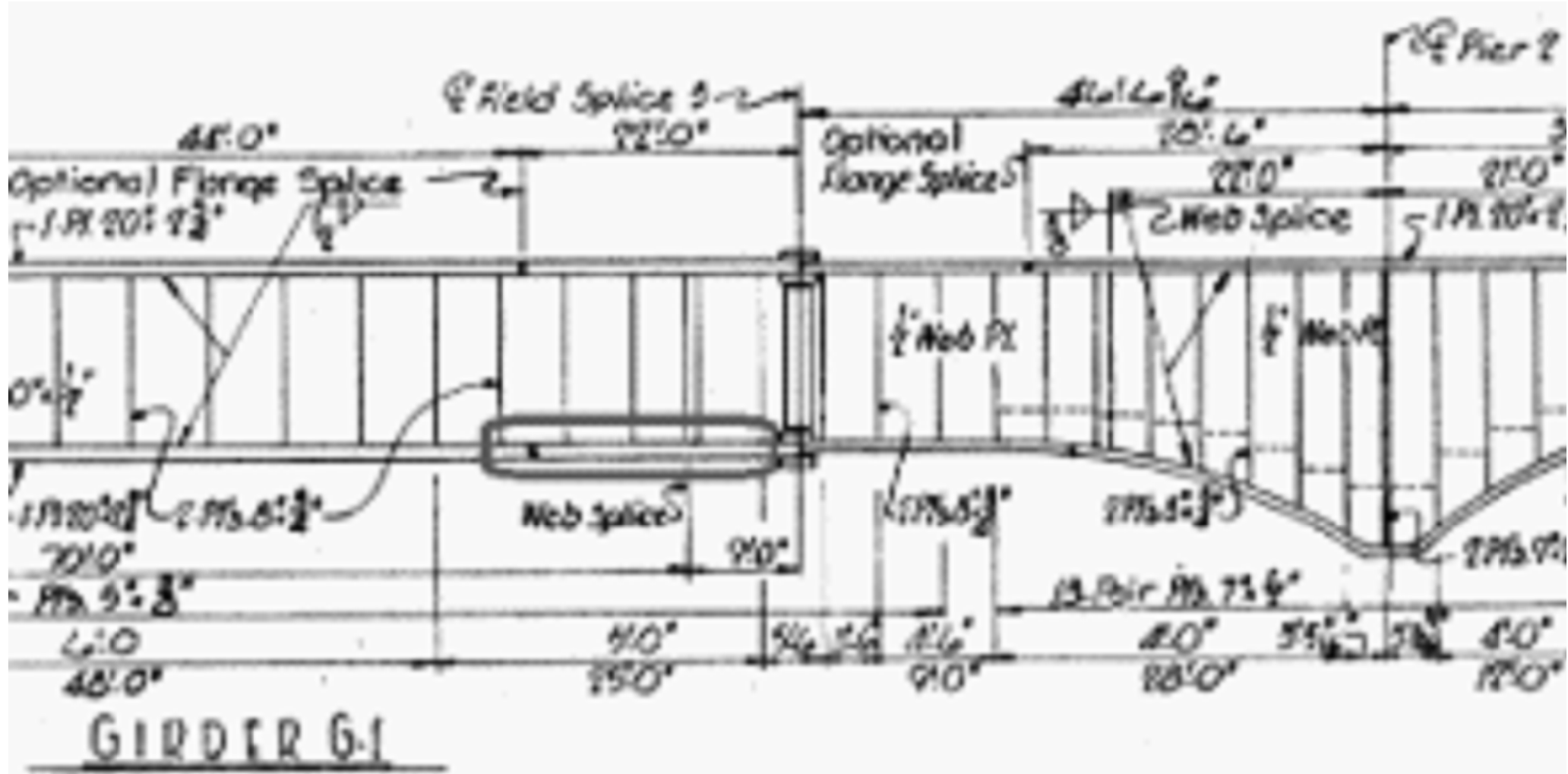
LOCATION 'B'



LOCATION 'B'

SHEET TITLE
SHEET SUB-TITLE
SHEET SUB-TITLE 2

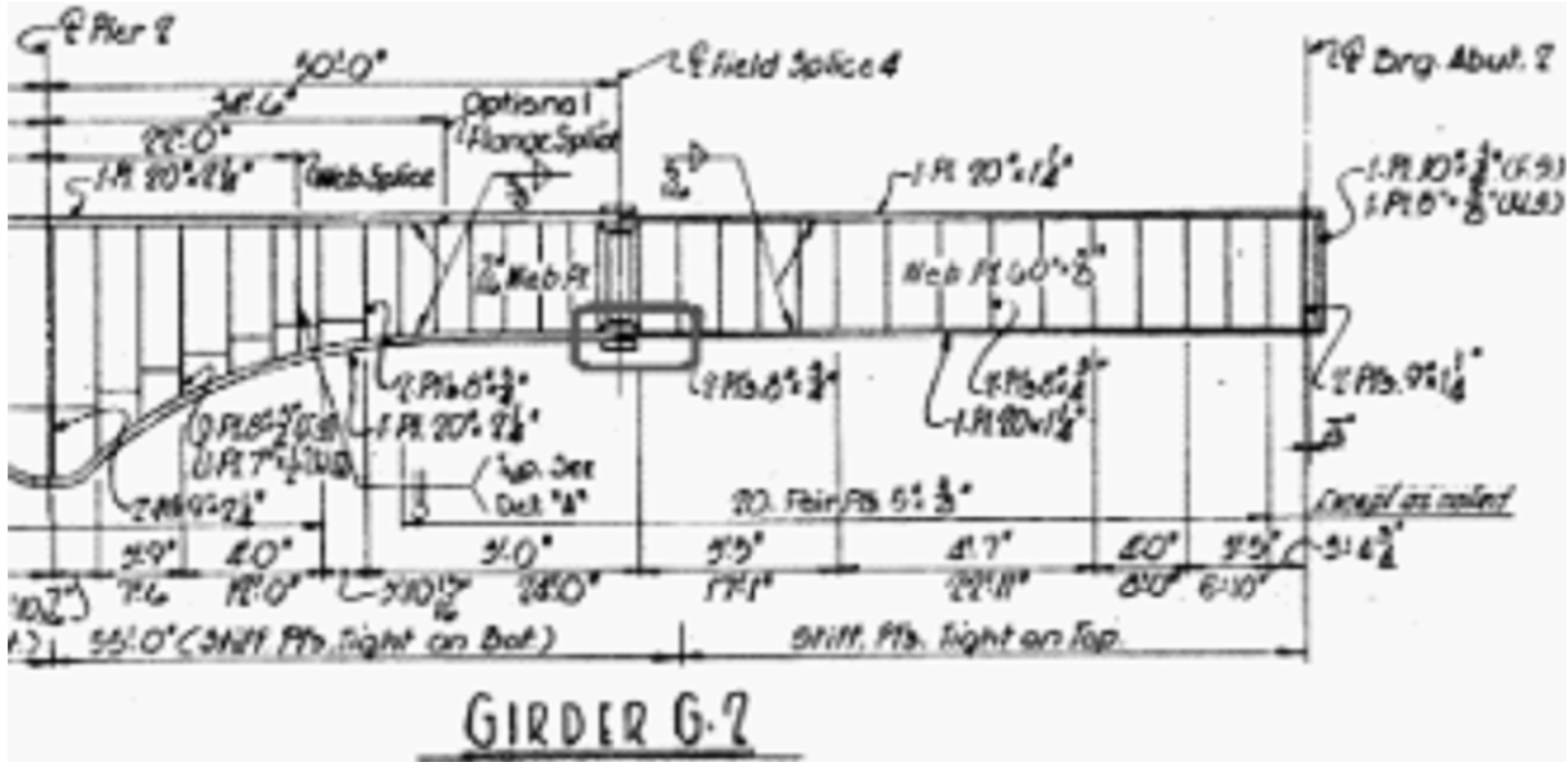
SFN	
0	
DESIGN AGENCY	
DESIGNER	CHECKER
XXX	XXX
REVIEWER	
XXX MM-DD-YY	
PROJECT ID	
0	
SUBSET	TOTAL
0	0
SHEET	TOTAL
P.0	0



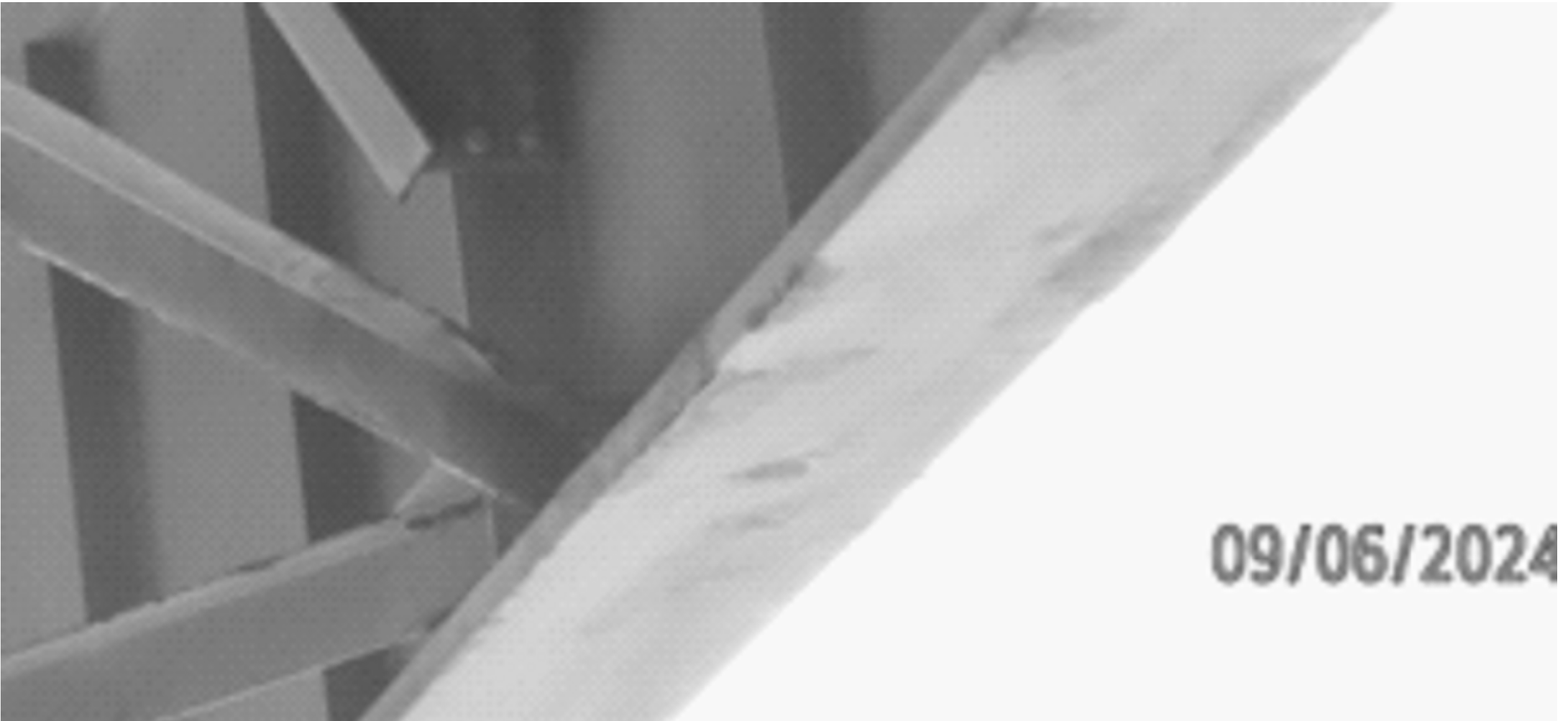
LOCATION 'C'



LOCATION 'C'



LOCATION 'D'



LOCATION 'D'

NOTES:

1. PHOTOGRAPHS ON THIS SHEET SHOW THE STRUCTURAL STEEL LOCATIONS THAT ARE TO BE SURFACE PREPARED AND SPOT PAINTED PER 514 OZEU SPECIFICATIONS AND THE "ITEM 514 - FIELD PAINTING, MISC.: SPOT PAINTING OF STRUCTURE STEEL NEAR EXPANSIONS JOINTS" NOTE ON SHEET 5.

LEGEND

- LOCATION 'C' - TOP OF BOTTOM FLANGE AT SPLICE EAST OF PIER 2 ON SOUTH FASCIA INCLUDING SOUTH FLANGE EDGE AND 1' OF WEB. LONGITUDINALLY THE LIMITS ARE FROM 3' WEST OF THE CL SPLICE TO 6' EAST OF THE CL SPLICE
- LOCATION 'D' - BOTTOM OF BOTTOM FLANGE ON NORTH GIRDER AND EDGES FROM THE STIFFENER IMMEDIATELY WEST OF FIELD SPLICE 3 TO THE 5 STIFFENER WEST OF FIELD SPLICE 3. (OVER THE RIGHT TWO NB LANES)

