

May 02, 2024 4:05:24PM

COUNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 212 BRIDGE: A0243

GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: IS70E # SPANS:** 3 PLACE CODE: 38000 KANSAS CITY CITY **DATE:** 09/12/2023 **RESPONSIBILITY: DISTRICT** LANES ON: 4 FEATURE: CST E 11TH ST LENGTH: 153 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24 LANES UNDER: 3 STATUS:** P-POSTLOAD **MAXIMUM SPAN: 62 FT 6 IN TEAM LEADER:** TIMOTHY HAZLETT **ELEMENT:** YES **LOG MILE: 2.260 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 40 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR:** 1.00 MILES **DIRECTION OF TRAFFIC: 1-WAY TRAF** CURB TO CURB: 48 FT 0 IN **INSPECTOR 3: OUT TO OUT:** 59 FT 6 IN NHS: YES **FUNCTIONAL CLASS: UR-INTERSTATE** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1958 **NBI OWNER: MODOT AADT:** 55722 **GENERAL INSPECTION COMMENTS REHAB:** 1984 **NBI MAINTAINED: MODOT AADT YEAR: 2023** MAINTENANCE DISTRICT: KC LOCATION: S 5 T 49 R 33 W **AADT TRUCK:** 18.4% **LATITUDE:** 39 6 2.89 (DMS) **MAINTENANCE COUNTY: JACKSON FUTURE AADT: 75225 LONGITUDE:** 94 34 21.68 (DMS) SUB AREA: 7C01 **FUTURE AADT YEAR: 2043** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. FRACTURE CRITICAL INSPECTION COMMENTS **INDEPTH INSPECTION COMMENTS** ***SPECIAL INSPECTION INFORMATION*** ***UNDERWATER INSPECTION INFORMATION*** **CATEGORY: CATEGORY:** DATE: **DATE: RESPONSIBILITY: RESPONSIBILITY:** FREOUENCY: **CALCULATED INTERVAL**: NBI**: FREOUENCY: CALCULATED INTERVAL**: **NBI**: TEAM LEADER: **INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **DATE FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**



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STRUCTURE POSTING APPROVED CATEGORY: S-C3 WEIGHT LIMIT 65 TONS. **Ton 1:** 65 **Ton 2: Ton 3: COMMENTS:** FIELD CATEGORY: S-C3 WEIGHT LIMIT 65 TONS. **PROBLEM:** PROBLEM DIRECTION: **Ton 1:** 65 **Ton 2: Ton 3: COMMENTS:** ***GENERAL COMMENTS/MAJOR RATED ITEMS*** GENERAL COMMENTS: (BOWDEJ1, 10/07/2008)--(43'-62'-43') CONT CONC SOLID SLAB SPANS [ITEM 58] DECK: 5-FAIR CONDITION COMMENTS: (OTISL1, 09/28/2017)--HEAVY EDGE DETER, LEACHING & SATURATION **RATING:** 09/28/2017 [ITEM 59] SUPER: 5-FAIR CONDITION COMMENTS: (OTISL1, 09/28/2017)--HEAVY EDGE LEACHING, SATURATION. **RATING:** 09/28/2017 [ITEM 60] SUB: 6-SATISFACTORY CONDITION COMMENTS: (OTISL1, 10/01/2019)--COLUMN CRACING/SPALL/DELAMINATE **RATING:** 10/01/2019 [ITEM 61] BANK/CHANNEL: N-NOT APPLIC NO WATRWAY **COMMENTS: RATING:** 05/18/2001 [ITEM 113] SCOUR: N-NOT APPLIC NOT WATERW **COMMENTS: RATING:** 05/18/2001 **EVALUATION TYPE:** [ITEM 71] WATERWAY ADEQUACY: NOT APPLICABLE **COMMENTS: RATING:** 05/18/2001 [ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY **COMMENTS: RATING:** 05/18/2001 ***RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS*** [ITEM 36A] BRIDGE RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS: DIRECTION MATERIAL CONSTRUCTION COMMENTS** SAFETY BARRIER CURB REINFORCED CONCRETE **BOTH** LOCATION 1 **CONDITION** LOCATION 2 **SEVERITY COMMENT BOTTOM FEW SPALLS** VERTICAL CRACKS THROUGHOUT **FEW** [ITEM 36B] TRANSITION RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:** MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL** NORTHWEST THRIE BEAM TO W-BEAM **GALVANIZED STEEL** SOUTHWEST THRIE BEAM TO W-BEAM [ITEM 36C] APPROACH RAILING RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:**

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Missouri Department of Transportation State Bridge Inspection Report

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[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1

RATING: 05/18/2001

GALVANIZED STEEL

CONSTRUCTION OTHER

DIRECTION NORTHWEST

OTHER

GALVANIZED STEEL

SOUTHWEST

LOCATION 1

ENDS

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

MATERIAL

CONSTRUCTION

DIRECTION

CONDITION*

COMMENTS

COMMENTS

COMMENTS:

ASPHALT **CONDITION** **BITUMINOUS MAT**

BOTH

FAIR LOCATION 2

SEVERITY

COMMENT

COMMENT

DETERIORATION

MODERATE

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS:

SERIES TYPE-# COMPONENT WEARING SURFACE MAIN SERIES-1

MAP CRACKS

PATCHES

MATERIAL PLAIN CONCRETE **CONSTRUCTION** LOW SLUMP

THICKNESS 2.25 IN

YEAR APPLIED MANUFACTURE

OVERALL CONDITION

FAIR

COMMENT:

CONDITION

LOCATION 1

LOCATION 2

SEVERITY MANY

MODERATE

THROUGHOUT THROUGHOUT

DECK PROTECTION

NOTAPPLICABLE

NONE

COMMENT:

MEMBRANE

NOTAPPLICABLE

NONE

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT

MATERIAL

CONSTRUCTION

DIRECTION

COMMENTS

EXPANSION DEVICE COMPONENTS:

SUB UNIT-# SUB LABEL

COMPONENT

MATERIAL

CONSTRUCTION

GAP

YEAR APPLIED

MANUFACTURE

OVERALL CONDITION

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT BANK PROTECTION

MATERIAL PLAIN CONCRETE **CONSTRUCTION** *PAVEDSLOPE*

DIRECTION BOTH

COMMENTS

DECK COMPONENTS

SPAN TYPE-# MAIN SPANS-1 **COMPONENT** DECK

MATERIAL REINFORCED CONCRETE **CONSTRUCTION** CAST-IN-PLACE

COMMENTS

CONDITION DETERIORATION LOCATION 1 **EDGE**

LOCATION 2

SEVERITY

MEASUREMENT COMMENT

MEDIUM

Design $N_0 = a0243$

This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.

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REINFORCED CONCRETE CAST-IN-PLACE MAIN SPANS-2 DECK LOCATION 2 **SEVERITY CONDITION** LOCATION 1 **MEASUREMENT COMMENT DETERIORATION EDGE MINOR** REBAR EXPOSED **EDGE FEW MODERATE** SPALLS **EDGE** DECK MAIN SPANS-3 REINFORCED CONCRETE CAST-IN-PLACE **CONDITION LOCATION 1 LOCATION 2** SEVERITY **MEASUREMENT COMMENT EDGE MODERATE** DETERIORATION **EDGE FEW** REBAR EXPOSED **EDGE SPALLS MODERATE** ***SUPERSTRUCTURE COMPONENTS*** SPAN TYPE SERIES TYPE-# MATERIAL CONSTRUCTION LABEL **COMMENTS** MAIN SERIES-1 CONTINUOUS SPAN REINFORCED CONCRETE SOLID SLAB **WEATHERING STEEL COMPOSITE INDICATOR LENGTH COMMENTS SPAN** MAIN SPANS-1 NON-COMPOSITE 43 FT 9 IN NO **CONDITION** LOCATION 1 **LOCATION 2** SEVERITY **MEASUREMENT COMMENT EFFLORESCENCE** AT INTERMEDIATE BENT **MEDIUM** HORIZONTAL CRACKS FEW AT INTERMEDIATE BENT LEACHING **THROUGHOUT HEAVY** LONGITUDINAL CRACKS **EDGE MODERATE SATURATION EDGE** HEAVY **SPALLS OVERHANGS** MINOR MAIN SPANS-2 NON-COMPOSITE 62 FT 6 IN NO **CONDITION LOCATION 1** LOCATION 2 **SEVERITY MEASUREMENT COMMENT DELAMINATION MINOR EDGE** EFFLORESCENCE AT INTERMEDIATE BENT **MEDIUM** HORIZONTAL CRACKS AT INTERMEDIATE BENT FEW HEAVY LEACHING **THROUGHOUT** LONGITUDINAL CRACKS **EDGE MODERATE EDGE** SATURATION **HEAVY** MAIN SPANS-3 NON-COMPOSITE 43 FT 9 IN NO **CONDITION** LOCATION 1 LOCATION 2 **SEVERITY MEASUREMENT COMMENT EFFLORESCENCE** AT INTERMEDIATE BENT **MEDIUM FEW** HORIZONTAL CRACKS AT INTERMEDIATE BENT LEACHING **THROUGHOUT MODERATE** LONGITUDINAL CRACKS **EDGE MODERATE EDGE SATURATION MODERATE** THROUGHOUT **MINOR SATURATION** ***SUBSTRUCTURE COMPONENTS*** **SUBSTRUCTURE LENGTH** CONSTRUCTION **COMMENTS** SKEW LABEL **MATERIAL** ABUTMENT-1 66 FT 4 IN REINFORCED CONCRETE INTEGRAL **CONDITION** LOCATION 1 **LOCATION 2 SEVERITY** MEASUREMENT COMMENT ASSOCIATED COMPONENT **CONSTRUCTION MATERIAL** REINFORCED CONCRETE BEAM CAP CAST-IN-PLACE **CONDITION** LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT

Design No = a0243

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COUNTY: JACKSON	DISTRICT: KC	CLASS: STATBR	FED-I	D. 212	BRIDGE: A0243
		CLASS: STATER		U, 414	DNIDGE, AU243
VERTICAL CRACKS	THROUGHOUT	CACT DI DI ACE	FEW		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE	CELEDIEV	ME ACUDEMENT	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING	REINFORCED CONCRETE	SPREAD			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
LEACHING	VERTICAL FACE		MODERATE		
SATURATION	VERTICAL FACE		MODERATE		
FLARED WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-2	REINFORCED CONCRETE	MULTIPLE COLUMN			
CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION			
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u>CONDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
HORIZONTAL CRACKS	TOP	20 0.1110.112	MINOR	THE IS CITED VI	COMMENT
FOOTING	REINFORCED CONCRETE	SPREAD	MINOR		
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
CONDITION	<u>LOCATION I</u>	<u>LOCATION 2</u>	SEVERITI	MEASUREMENT	COMMENT
BENT-3	REINFORCED CONCRETE	MULTIPLE COLUMN			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
FOOTING	REINFORCED CONCRETE	SPREAD			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
DELAMINATION	COLUMN		LARGE		
HORIZONTAL CRACKS	TOP		FEW		
SPALLS	BOTTOM		MODERATE		
VERTICAL CRACKS	THROUGHOUT		FEW		
ABUTMENT-4 59 F.	T 9 IN REINFORCED CONCRETE	INTEGRAL			
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
ASSOCIATED COMPONENT	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	~~, ~11111		
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
LEACHING	EDGE	DO CHILOTT E	MODERATE	MENIGOREMENT	COMMANDE 1
VERTICAL CRACKS	THROUGHOUT		FEW		
COLUMN	REINFORCED CONCRETE	CAST-IN-PLACE	1 17 44		
COLOWN CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
FOOTING	REINFORCED CONCRETE	SPREAD	SL, LIIII	MEMBURLINE	COMMENT
CONDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
	·	· · · · · · · · · · · · · · · · · · ·	SEY ENITI	MEASUREMENT	COMMENT
TURNED BACK WINGS <u>CONDITION</u>	REINFORCED CONCRETE	CAST-IN-PLACE	CELEDITU	MEACHDEMENT	COMMENT
	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCENCE	VERTICAL FACE		LIGHT		
MAP CRACKS	THROUGHOUT		MANY		
SATURATION	VERTICAL FACE	CACT DI DI ACE	MINOR		
FLARED WINGS	REINFORCED CONCRETE	CAST-IN-PLACE	CEL/EDIEN	ME (CIDE) IDA	COMMENT
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	CUMINENT

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COUNTY: JACKSON

DISTRICT: KC

CLASS: STATBR

FED-ID: 212

BRIDGE: A0243

OVER/UNDER ROUTES CLEARANCE INFORMATION **CLEARANCES OVER DECK** **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. VERTICAL CLEARANCE TYPE** **VALUE DIRECTION** DATE **COMMENT CLEARANCES UNDER BRIDGE** **NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance. UR-ID 106560 RECORD # ROUTE **DIRECTION OF TRAFFIC** RIGHT LATERAL CLEARANCE LEFT LATERAL CLEARANCE # LANES CST E 11TH ST W 1-WAY TRAF 7 FT 0 IN 3 **VERTICAL CLEARANCE TYPE** VALUE DIRECTION** DATE **COMMENT ACTUAL** 14 FT 3 IN ***STRUCTURE PAINT INFORMATION*** **CONDITION: RUST AMOUNT: STEEL TONS: ORIGINAL PAINT CONTRACT REPAINT** DEPARTMENT REPAINT **PAINT TYPE: PAINT TYPE: PAINT TYPE: MANUFACTURE:** NAME: NAME: NAME: **SURFACE PREP: PAINT COLOR: PAINT COLOR: PAINT COLOR: PAINT YEAR: PAINT YEAR: PAINT YEAR:** MILS: MILS: MILS: ***REQUESTED WORK ITEMS*** **GENERAL WORK COMMENTS:** RESPONSIBILITY **LOCATION ITEM CATEGORY PRIORITY DATE WORK ITEM COMMENT** ***UTILITY ATTACHMENTS*** UTILITY **OWNER METHOD MEASUREMENT TYPE** UTILITY ATTACHMENT COMMENT **NUMBER VALUE**



YEAR

Missouri Department of Transportation State Bridge Inspection Report

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COUNTY: JACKSON

MONTH LET

PROJECT#

DISTRICT: KC

ITEMS

YEAR LET

square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.

CLASS: STATBR

FED-ID: 212

COMMENT

BRIDGE: A0243

COMP	UTER GENERATED RATINGS AND D	EFICIENCY ITEMS	***ADVANCED SIGN INFORMATION***				
NOTE: The items listed in this section are u	updated whenever computer edits are ran on a structu	re after the inspection updates have been entered in to TMS.	SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	
Rated Item	Rated Item Rating Rating Date						
[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	12/29/2017					
[Item 68] Deck Geometry Rating:	2-BASICALLY INTOLRBLE REQ	3/20/2002					
[Item 69] Underclearance:	4-MEETS MINIMUM TOLERABLE	3/21/2003					
Sufficiency Rating:	60.4%	2/26/2024					
Deficiency:	FUNCTIONAL	3/20/2002					
Funding Eligibility:	PARTIAL			***OUTFALL INSP	ECTION INFORMATION	ON***	
Estimated New Structure Length:	187 FT.						
Estimated Structure Cost:	\$1,233,325		# OUTFALLS:	INS	PECTOR:		
Estimated Total Project Cost:	\$1,849,987		STATUS:		DATE:		
Year of Cost Estimate:	2024		NOTES:				
NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per							

PROGRAM NOTES INFORMATION



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Y: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 212 BRIDGE: A0243

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GENERAL STRUCTURE INFORMATION ***BRIDGE INSPECTION INFORMATION*** **ROUTE: IS70W # SPANS:** 3 PLACE CODE: 38000 KANSAS CITY CITY **DATE:** 09/12/2023 **RESPONSIBILITY: DISTRICT** LANES ON: 3 FEATURE: CST E 11TH ST LENGTH: 153 FT 0 IN FREQUENCY: 24 **CALCULATED INTERVAL**: 24 LANES UNDER: 3 STATUS:** P-POSTLOAD **MAXIMUM SPAN: 62 FT 6 IN TEAM LEADER:** TIMOTHY HAZLETT **ELEMENT:** YES **LOG MILE: 247.672 COMPASS DIRECTION: NORTH to SOUTH** APPROACH ROADWAY: 40 FT 0 IN **INSPECTOR 2: INSPECTOR 4: DETOUR:** 1.00 MILES **DIRECTION OF TRAFFIC: 1-WAY TRAF CURB TO CURB: 52 FT 7 IN INSPECTOR 3: FUNCTIONAL CLASS: UR-INTERSTATE** NHS: YES **OUT TO OUT: 65 FT 6 IN** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. **BUILT:** 1958 **NBI OWNER: MODOT AADT:** 55722 **GENERAL INSPECTION COMMENTS REHAB:** 1984 **NBI MAINTAINED: MODOT AADT YEAR: 2023** MAINTENANCE DISTRICT: KC LOCATION: S 5 T 49 R 33 W **AADT TRUCK:** 15.0% **LATITUDE:** 39 6 2.55 (DMS) **MAINTENANCE COUNTY: JACKSON FUTURE AADT: 75225 LONGITUDE:** 94 34 20.86 (DMS) SUB AREA: 7C01 **FUTURE AADT YEAR: 2043** ***INDEPTH INSPECTION INFORMATION*** ***FRACTURE CRITICAL INSPECTION INFORMATION*** DATE: RESPONSIBILITY: **CATEGORY: CATEGORY:** DATE: **RESPONSIBILITY: FREQUENCY: CALCULATED INTERVAL**: NBI**: **FREQUENCY: CALCULATED INTERVAL**: NBI**: **TEAM LEADER: INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. FRACTURE CRITICAL INSPECTION COMMENTS **INDEPTH INSPECTION COMMENTS** ***SPECIAL INSPECTION INFORMATION*** ***UNDERWATER INSPECTION INFORMATION*** **CATEGORY: CATEGORY:** DATE: **DATE: RESPONSIBILITY: RESPONSIBILITY:** FREOUENCY: FREOUENCY: **CALCULATED INTERVAL**: NBI**: CALCULATED INTERVAL**: **NBI**: TEAM LEADER: **INSPECTOR 3: METHOD: TEAM LEADER: INSPECTOR 3: METHOD: INSPECTOR 2: INSPECTOR 4: INSPECTOR 2: INSPECTOR 4:** ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. ** When calculated interval exceeds the frequency, a justification comment per BIRM is required. SPECIAL INSPECTION COMMENTS **UNDERWATER INSPECTION COMMENTS** OTHER SPECIAL INSPECTIONS OTHER UNDERWATER INSPECTIONS **DATE FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD** DATE **FREQUENCY CATEGORY** NBI CALCULATED INTERVAL RESPONSIBILITY **METHOD**

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CONSTRUCTION **DIRECTION COMMENTS** MATERIAL GALVANIZED STEEL **SOUTHEAST** W-BEAM

[ITEM 36D] RAIL END TREATMENT RATING: MEETS CURRENT STANDARDS-1 **RATING:** 05/18/2001 **COMMENTS:**

MATERIAL **CONSTRUCTION DIRECTION COMMENTS GALVANIZED STEEL OTHER** SOUTHEAST (RACKEM, 10/04/2011)--CONTINUOUS RAIL.

APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

CONSTRUCTION DIRECTION CONDITION* MATERIAL COMMENTS

ASPHALT BITUMINOUS MAT BOTH (OTISL1, 09/28/2017)--CRACKING @ BRIDGE ENDS **FAIR**

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS:

COMPONENT OVERALL CONDITION SERIES TYPE-# **MATERIAL CONSTRUCTION THICKNESS** YEAR APPLIED **MANUFACTURE** MAIN SERIES-1 WEARING SURFACE PLAIN CONCRETE LOW SLUMP 2.25 IN **FAIR**

COMMENT:

CONDITION LOCATION 1 LOCATION 2 **SEVERITY COMMENT**

MAP CRACKS THROUGHOUT MANY **PATCHES FEW THROUGHOUT** TRANSVERSE CRACKS **THROUGHOUT MANY**

> **DECK PROTECTION CARBON** CATHODIC PROTECTION

COMMENT:

MEMBRANE NOTAPPLICABLE **NONE**

COMMENT:

SECONDARY DECK PROTECTION *NOTAPPLICABLE* **NONE**

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS

EXPANSION DEVICE COMPONENTS:

SUB UNIT-# SUB LABEL **COMPONENT MATERIAL CONSTRUCTION GAP** YEAR APPLIED **OVERALL CONDITION** *MANUFACTURE*

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT MATERIAL CONSTRUCTION DIRECTION COMMENTS *PAVEDSLOPE* SLOPE PROTECTION PLAIN CONCRETE BOTH

DECK COMPONENTS

COMPONENT MATERIAL COMMENTS SPAN TYPE-# **CONSTRUCTION**

MAIN SPANS-1 DECK REINFORCED CONCRETE CAST-IN-PLACE

Design No = a0243

COUNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 213 BRIDGE: A0243

MAIN SPANS-2 DECK REINFORCED CONCRETE CAST-IN-PLACE

MAIN SPANS-3 DECK REINFORCED CONCRETE CAST-IN-PLACE

SPAN TYPE

<u>CONDITION</u> <u>LOCATION 1</u> <u>LOCATION 2</u> <u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>

EFFLORESCENCE BOTTOM HEAVY
PATCHES ENDS LARGE (OTISL1, 09/22/2021)--LANE #2

SPALLS AT ABUTMENTS MINOR TRANSVERSE CRACKS BOTTOM FEW

MATERIAL

SUPERSTRUCTURE CO	OMPONENTS
----------------------	--------------

LABEL

COMMENTS

(OTISL1, 09/22/2021)--AT EDGE

(OTISL1, 09/22/2021)--AT EDGE

CONSTRUCTION

MAIN SERIES-1	CONTINUOUS SPAN	REINFORCED	CONCRETE	SOLID SLAB			
<u>SPAN</u>	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	<u>COMMENTS</u>			
MAIN SPANS-1	NON-COMPOSITE	43 FT 9 IN	NO	(OTISL1, 10/01/2019)PATCHE	ES EDGE, FEW, RUSTSTA	AIN MINOR !IB	
<u>CONDITION</u>	<u>LOCAT</u>	<u>ION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>	

DELAMINATIONEDGEMINOREFFLORESCENCEENDSMODERATEMAP CRACKSEDGEMANYPATCHESTHROUGHOUTFEW

SATURATION EDGE MINOR SHEAR CRACKS ENDS FEW

TRANSVERSE CRACKS RANDOM FEW

MAIN SPANS-2 NON-COMPOSITE 62 FT 6 IN NO (OTISL1, 10/01/2019)--PATCHES EDGE, FEW, RUSTSTAIN MINOR !IB

CONDITIONLOCATION 1LOCATION 2SEVERITYMEASUREMENTCOMMENTCOLLISION DAMAGEEXTERIOR GIRDERSMINOR

DELAMINATION EDGE MINOR
PATCHES THROUGHOUT FEW

REBAR EXPOSED EDGE FEW
SATURATION EDGE MINOR
SPALLS EDGE MINOR
TRANSVERSE CRACKS RANDOM FEW

MAIN SPANS-3 NON-COMPOSITE 43 FT 9 IN NO (OTISL1, 10/01/2019)--PATCHES EDGE, FEW, RUSTSTAIN MINOR !IB

DETERIORATION RANDOM MODERATE (RACKEM, 10/04/2011)--AT ABUTMENT.

LEACHING THROUGHOUT MODERATE (RACKEM, 10/04/2011)--AT CORNER.

PATCHES THROUGHOUT FEW (OTISL1, 09/22/2021)--AT EDGE

SATURATION EDGE

SUBSTRUCTURE COMPONENTS

MINOR

 SUBSTRUCTURE
 SKEW
 LENGTH
 MATERIAL
 CONSTRUCTION
 LABEL
 COMMENTS

 ABUTMENT-1
 60 FT 9 IN
 REINFORCED CONCRETE
 INTEGRAL

<u>CONDITION</u> <u>LOCATION 1</u> <u>LOCATION 2</u> <u>SEVERITY</u> <u>MEASUREMENT</u> <u>COMMENT</u>

ASSOCIATED COMPONENT MATERIAL CONSTRUCTION

BEAM CAP REINFORCED CONCRETE CAST-IN-PLACE

CONDITION LOCATION 1 LOCATION 2 SEVERITY MEASUREMENT COMMENT

VERTICAL CRACKS THROUGHOUT FEW

Design_No = a0243

MODOT

SERIES TYPE-#

May 02, 2024 4:05:24PM

COUNTY: JA	CKSON	DISTRICT: KC	CLASS: STATBR	FED-ID	: 213	BRIDGE: A0243
COLUMN		REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>NDITION</u>	LOCATION 1	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE	SPREAD	CEL/EDITV	MEASUDEMENT	COMMENT
FLARED WINGS	<u>NDITION</u>	<u>LOCATION 1</u> REINFORCED CONCRETE	<u>LOCATION 2</u> CAST-IN-PLACE	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	NDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
TURNED BACK WING		REINFORCED CONCRETE	CAST-IN-PLACE	<u>SEVERITI</u>	MENSCREMENT	<u>COMMENT</u>
	NDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
	RESCENCE	LEFT SIDE		MINOR		(OTISL1, 10/01/2019)AND FEW MAP CRACKS
RUST	ΓSTAINS	LEFT SIDE		MINOR		
BENT-2		REINFORCED CONCRETE	MULTIPLE COLUMN			
	NDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
ASSOCIATED COMPO	<u>NENT</u>	MATERIAL	<u>CONSTRUCTION</u>			
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u>CON</u>	NDITION	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE	SPREAD			
<u>CON</u>	<u>VDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
BENT-3		REINFORCED CONCRETE	MULTIPLE COLUMN			
	NDITION	<u>LOCATION 1</u>	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	<u>COMMENT</u>
ASSOCIATED COMPO	<u>NENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
COLUMN		REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE			
<u></u>	<u>NDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
FOOTING		REINFORCED CONCRETE	SPREAD	~		
<u>CON</u>	<u>VDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ABUTMENT-4	66 FT 2	IN REINFORCED CONCRETE	INTEGRAL			
CON	<u>IDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
ASSOCIATED COMPO		<u>MATERIAL</u>	<u>CONSTRUCTION</u>			
BEAM CAP		REINFORCED CONCRETE	CAST-IN-PLACE			
<u> </u>	<u>NDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
	IORATION	RANDOM		MINOR		(RACKEM, 10/04/2011)RIGHT AT SUPER INTERFACE.
COLUMN	AL CRACKS	THROUGHOUT REINFORCED CONCRETE	CAST-IN-PLACE	FEW		
	NDITION	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	MEASUREMENT	COMMENT
FOOTING		REINFORCED CONCRETE	SPREAD	~		<u> </u>
	<u>IDITION</u>	LOCATION 1	LOCATION 2	<u>SEVERITY</u>	<u>MEASUREMENT</u>	COMMENT
FLARED WINGS		REINFORCED CONCRETE	CAST-IN-PLACE			
	<u>IDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
TURNED BACK WING	iS	REINFORCED CONCRETE	CAST-IN-PLACE		-	
<u>CON</u>	<u>IDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
			VED ANDED DOUBLE CLEAD			

OVER/UNDER ROUTES CLEARANCE INFORMATION

CLEARANCES OVER DECK**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

 VERTICAL CLEARANCE TYPE**
 VALUE
 DIRECTION
 DATE
 COMMENT

State Bridge Inspection Report CLASS: STATBR

May 02, 2024 **Missouri Department of Transportation** MoDOT 4:05:24PM

CLEARANCES UNDER BRIDGE

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

RECORD # CST E 11TH ST W VERTICAL CLEARANCE TYPE**

ROUTE

COUNTY: JACKSON

3 **VALUE**

DIRECTION OF TRAFFIC # LANES 1-WAY TRAF

DISTRICT: KC

RIGHT LATERAL CLEARANCE 7 FT 0 IN

LEFT LATERAL CLEARANCE

FED-ID: 213

UR-ID 106559

DEPARTMENT REPAINT

MANUFACTURE:

SURFACE PREP:

BRIDGE: A0243

DIRECTION DATE COMMENT ACTUAL 14 FT 3 IN

STRUCTURE PAINT INFORMATION

CONDITION: RUST AMOUNT: STEEL TONS:

> **ORIGINAL PAINT CONTRACT REPAINT**

PAINT TYPE: PAINT TYPE: NAME: NAME: **PAINT COLOR: PAINT COLOR: PAINT YEAR:**

PAINT YEAR: MILS:

PAINT TYPE: NAME: **PAINT COLOR:**

PAINT YEAR: MILS:

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

MILS:

LOCATION PRIORITY DATE RESPONSIBILITY **ITEM CATEGORY WORK ITEM COMMENT** DISTRICT SPECIAL ROADWAY SURFACE SEAL DECK WITH IN DECK DECK 04/11/2023 3

UTILITY ATTACHMENTS

UTILITY OWNER METHOD MEASUREMENT TYPE UTILITY ATTACHMENT COMMENT **VALUE NUMBER**

PROGRAM NOTES INFORMATION

PROJECT# **MONTH LET** YEAR LET **ITEMS COMMENT YEAR**



May 02, 2024 4:05:24PM

COUNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 213 BRIDGE: A0243

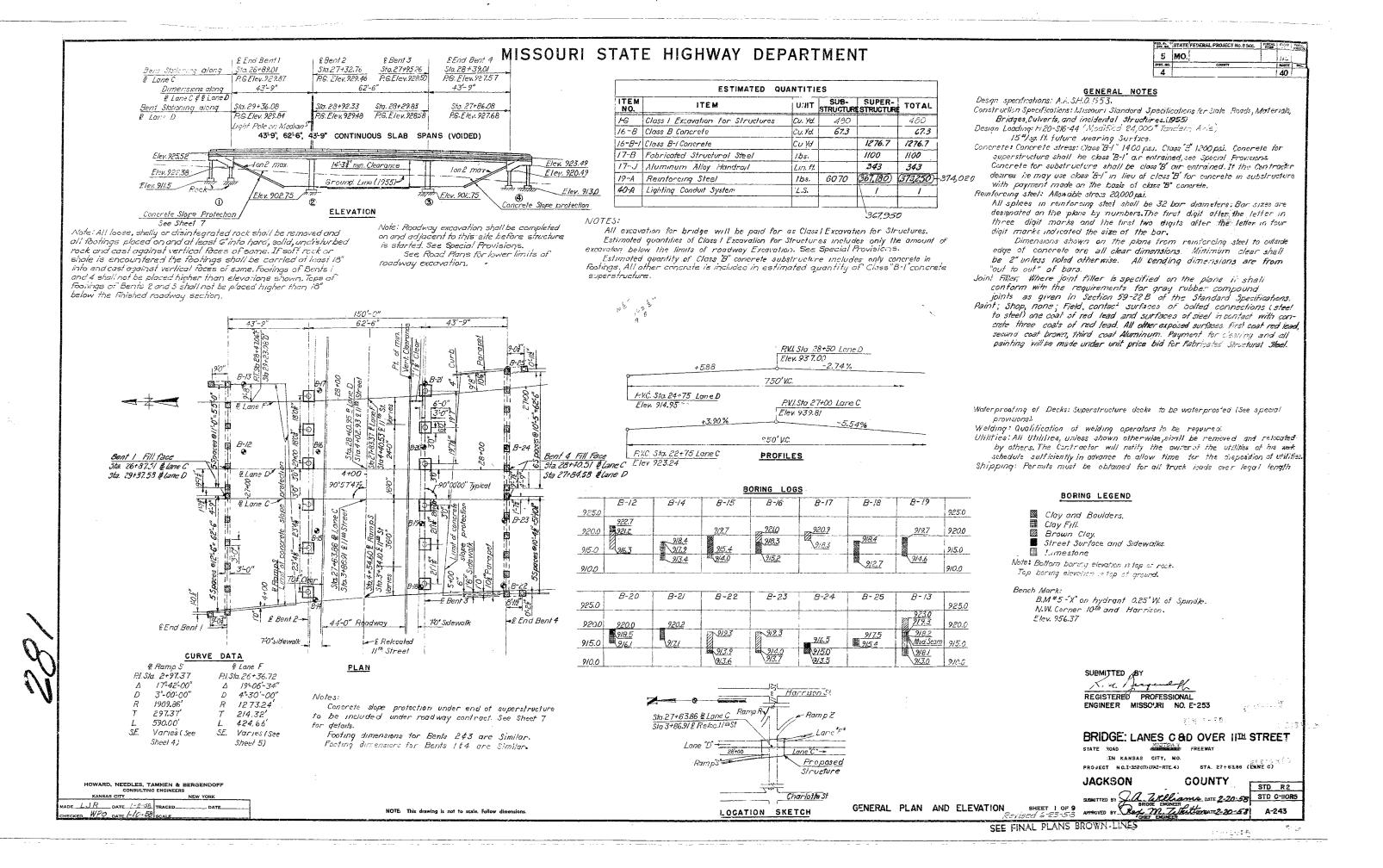
COUNTY: JAC	KSON DISTRICT: KC	CLASS: STATER	FED-ID: 213	BRIDGE: AU243		
COM	PUTER GENERATED RATINGS AND DI	***ADVANCED SIGN INFORMATION				
NOTE: The items listed in this section are	updated whenever computer edits are ran on a structu	SIGN#	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	
Rated Item	<u>Rating</u>	Rating Date	1			
[Item 67] Structure Evaluation Rating:	6-EQ TO PRESENT MIN CRITR	5/18/2001				
[Item 68] Deck Geometry Rating:	6-EQ TO PRESENT MIN CRITR	11/17/2015				
[Item 69] Underclearance:	4-MEETS MINIMUM TOLERABLE	3/21/2003				
Sufficiency Rating:	93.0%	2/26/2024				
Deficiency:	NOT DEFICIENT	11/17/2015				
Funding Eligibility:				***OUTFALL INSPI	ECTION INFORMATIO	N***
Estimated New Structure Length:						
Estimated Structure Cost:			# OUTFALLS:	INS	PECTOR:	
Estimated Total Project Cost:			STATUS:		DATE:	
Year of Cost Estimate:			NOTES:			
generalized to use NBI items to come up with	estimates are computer generated using algorithms in the a new structure length and width to calculate a new ost may vary significantly from these numbers once sit	area which is taken times a representative cost per				



May 02, 2024 4:05:24PM

UNTY: JACKSON DISTRICT: KC CLASS: STATBR FED-ID: 213 BRIDGE: A0243

 $Design_No = a0243$

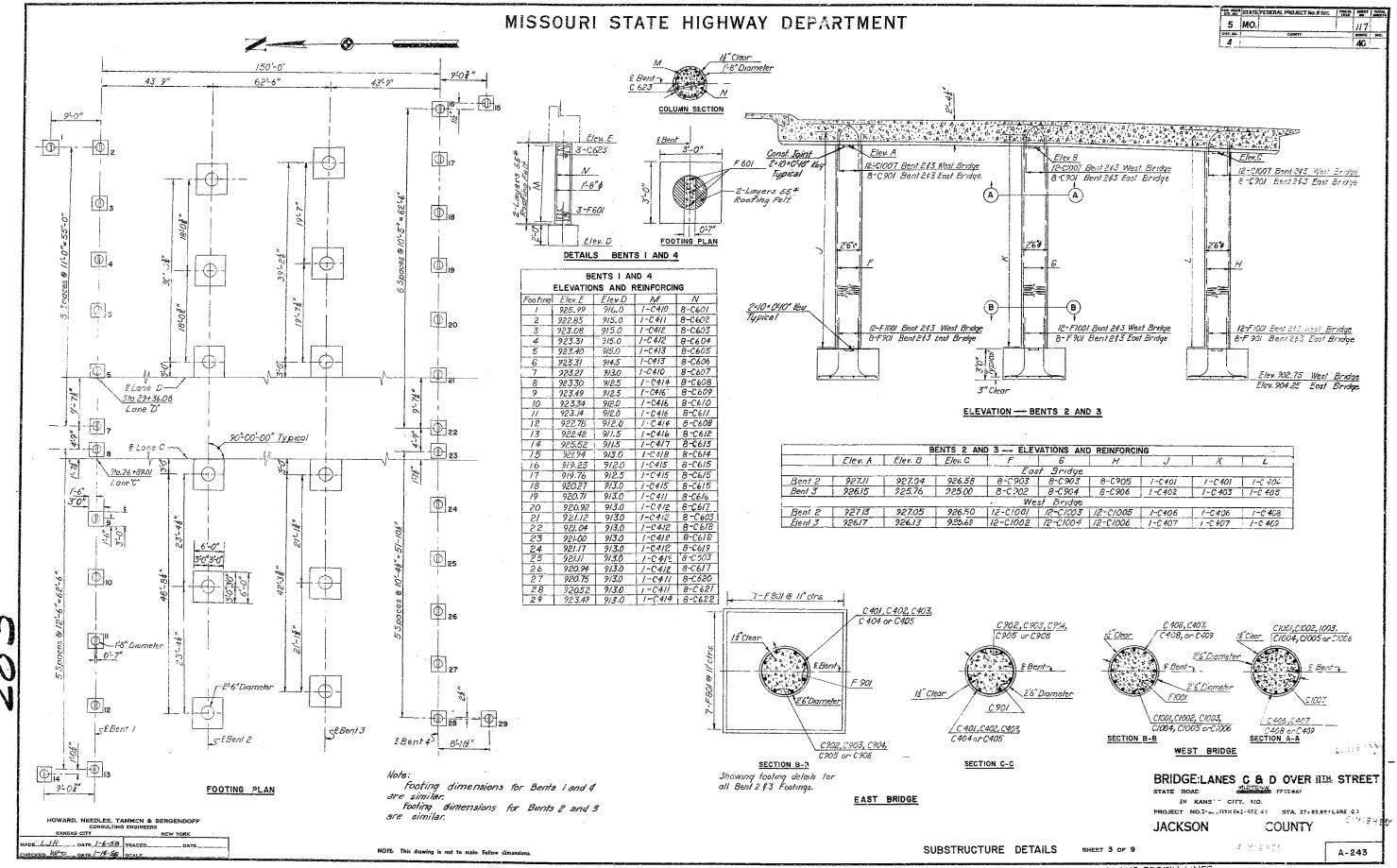


MISSOURI STATE HIGHWAY DEPARTMENT

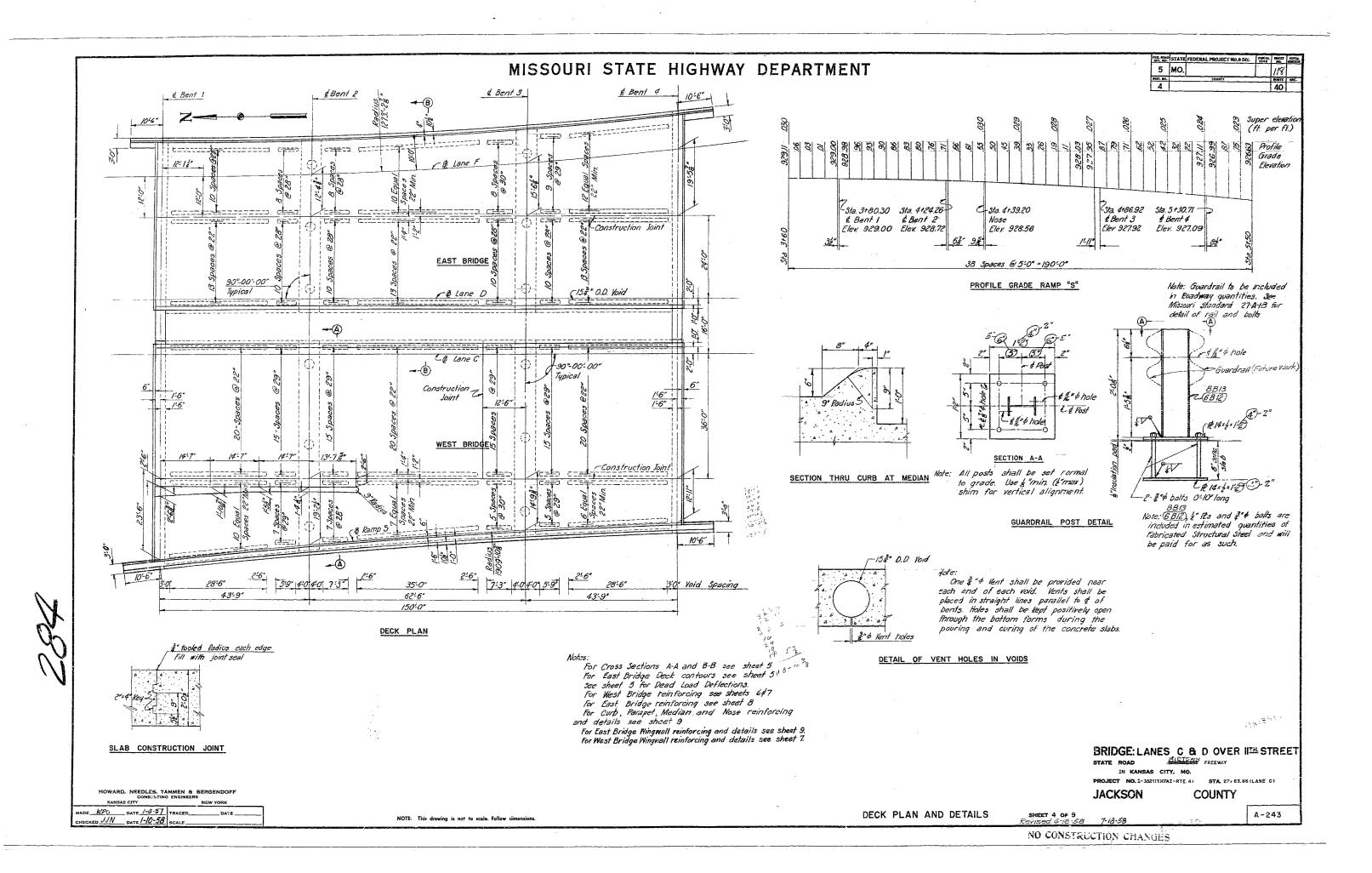
PER ROYD DIT. NO.	STATE FEDERAL PROJECT No. 8 Sec. 7	E42 80	TOTAL TOTAL
5	MO.	110	
DEST. 26.	CONTIT	25002	AC.
4		40	

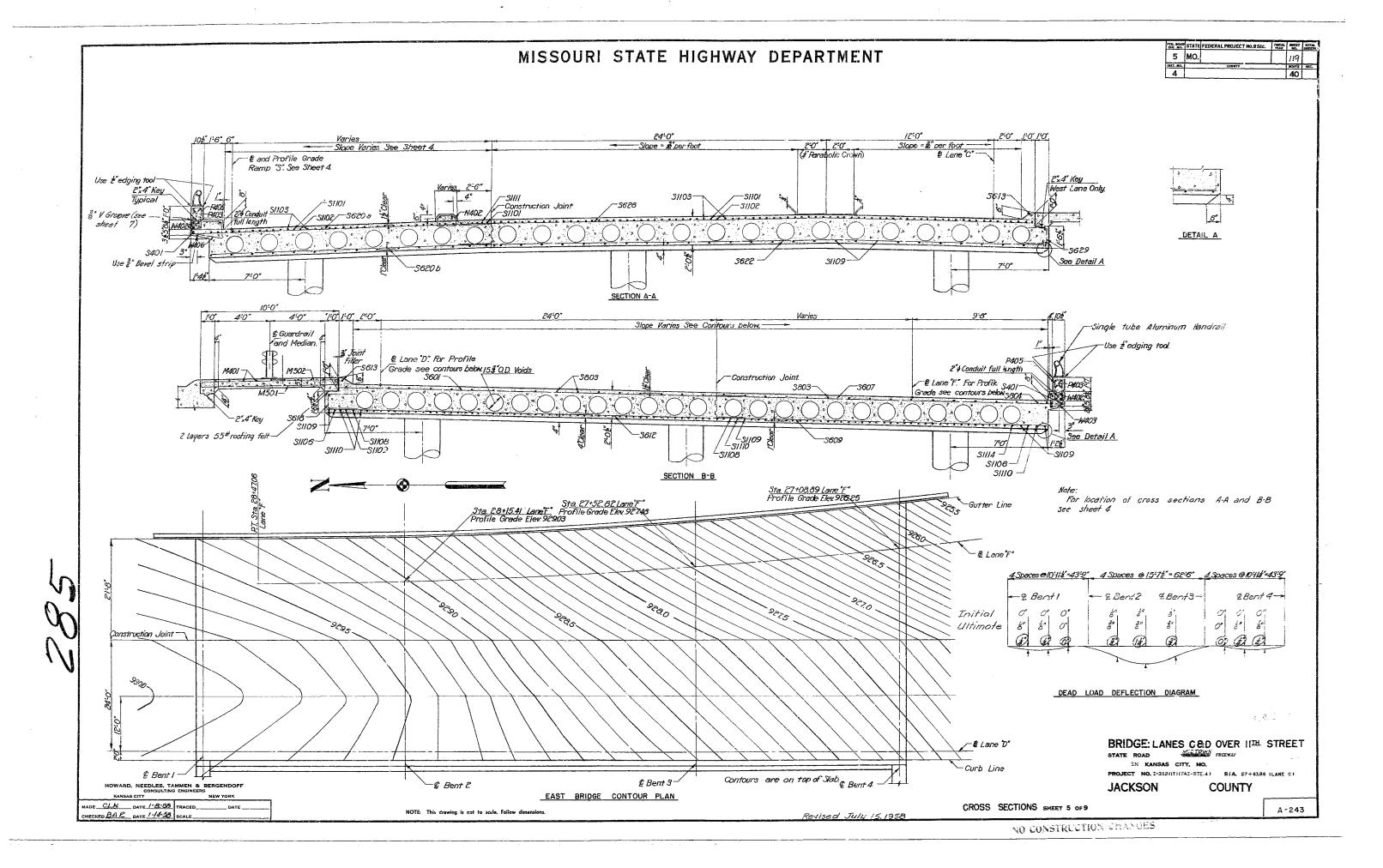
		BILL OF REINFORCING STEEL		
DIMENSIONS	DIMENSIONS	NO. SIZE LENGTH MARK TYPE A B C D	NO. SIZE LENGTH MARK TYPE A B C D	NO. SIZE LENGTH MARKTYPE A B C D
NO. SIZE LENGTH MARK TYPE A B C D	NO. SIZE LENGTH MARK TYPE A B C D	21 6 23-2" 5600 Str.	NO. SIZE LENGTH MARK THE A B C D	NO, SIZE LENGTH MARKITYPE A B C 0
SUBSTRUCTURE EAST BRIDGE	WEST BRIDGE 77-75 /73-6" BENT I	20 23'-9" \$607	8 10 55-10° B1006 Str.	30 4-0" N402 131 1-1" 7" 5" 48"
BENTS I AND 4	2 4 (254) C414 127 14" 80" 6"	21 22:0" S608	4 10 120-7" B1007 Str.	15 \ 10-6" \ N403 131 \ Varies \ Varies \ 5" \ 42"
45 6 4±0" F601 Str.	4 4 (26-6) C4/6 127 1-4" 8-6" 6" 1 4 (34-70) C4/7 127 1-4" 11-6" 6"	31 22'8" \$609 33 48'6" \$610	44 11 10°0" BIIOI Str.	5 4 298 11404 511:
BENTS 2 AND 3	102:2"	53 5440" 8611	6 56°2° 8 04 Str. 3 121'5" 8 05 Str.	108 4 25'7" M401 Str.
84 6 5-8" F801 Str.	16 6 8:4 C608 Str.	181 30'6' S612 4 39'8" S613	3 11 121-5" B1105 Str.	12 4 6-6" MADE Str. 259 5 10-9" M501 100 9-7" 7"
48 9 5'11" F901 126 4'8" 9" 6" 120"	8 8-11" C610	22 38'0" 3614	3 4 30°-0" SAGI Str.	130 5 9-7 M502 Stc
46 9 0 1 1 90 120 10 2 2 2	8 8'8" (2611	6 29'0" S6/5	4 4 17-8" S402 S+1:	13 6 10°11" M601 100 9°7" 8" 13 6 9°7" M602 Str.
WEST BRIDGE BENTS AND 4	8 8'6" C612 8 11'7" C613	2 2/-8" S6/6 11 30-3" S6/7 S7r.	4 6 39-8" S613 Str.	73 6 97 77652 577.
42 6 4-0' F601 Str.	21 6 4.0" C623 Str.	196 6 4 ² 3" S6/8 105 1 ² 2" 1 ² 10" 1 ² 3"	53 30-8" 5619	CUTTING DIAGRAMS
	BENT 2 2 4 680'5" C406 127 2'3" 22'0" 23"	4 7 22 ¹ 8" S701 Str.	75 37°3° S620 53 45°11° S621	- <i>F</i>
BENTS 2 AND 3 84 8 5'8" F80/ Str.	1 4 666-4" (2408 127 2-3" 21-62 23"	8 7 384" S702 Str.	203 42-6" 5622	J = K
		4 7 30-3" S703 Str.		
72 9 6"7" F1001 126 5"4" 9" 6" 1"0"	12 10 22'5" C1001 Str. 12 22'4" C1003 Str.	71 6 1540" 5801 126 740" 2:1" 4:9" 1-4"	4 41°0" \$625	<u> </u>
	12 21-10" C1005 Str	73 31-3" 3802 126 24-5" 2-1" 4-9" 1-4"	2 24'2" 5626	# A b*
	36 10 13-1" C1007 126 3-4" 2-4" 7-5" 1-6"	35	2 13 ² 4" 5627 181 4/26" 5628 5tr.	a* <u>A</u> 0*
SUPERSTRUCTURE - COLUMNS EAST BRIDGE	PENT 3		196 6 41" 3629 105 1-2" 1-10" 1-1"	A F G H J K L
49'-0" ,69'-5" BENT I	2 4 652-6" C407 127 2-3" 21-1" 23"	71 11 41'0" SIIOI Str.	9 7 42407 9724 94-	#48'6
2 4 (23.5°) 0410 127 1.4° 7.6° 6° 1 (0.66°) 0411 1.4° 5.0° 6°	1 4 638-8" C409 127 C-3" 20-75 23"	68 34-0° SH02 4 69 22-0° SH03	8 7 42 ² 10* \$704 \$tr. 4 7 26 ² 0* \$705 \$tr.	53 -36il cut 53 * 5440 2 65:5 29:8 25:2 28
P (18-1") C412 1-4" 5-6" 6"	12 10 21:5" C1002 Str.	1 24 ¹ 8" S1104	4 7 15 ¹ 6" S706 Str.	3-Bi/03 cut 3 1/05 ii 1 57 9 52 ii 53 0 53
2 4 (19.6°) C413 127 1.4" 6.0" 6"	12 21'4" C1004 Str.	/ 25 ⁴ 6" S1/05 70 30 ² 0" S1/06	79 8 13-10" \$801 126 7-0" 2-1" 4-9" 1-4"	3-Bi003 cut 3 V049 1 52-55-4 52-552 WEST BRIDGE
53'F 57'E	12 2041" C1006 Str. 3-6 10 13-1" C1007 126 3-4" 2-4" 7-5" 1-6"	71 52'0' \$1100	82 31-3" S802 126 24-5" 2-1" 4-9" 1-4"	WEST BRIDGE 15-Na03 cut 15 bend 30 10-6" 3" 4-2" 5-24" 5-34 6-4
3 5:5° C672		32 28±0* SII08	40 2940° S803 Str.	3-B1\.5 cut 3 121'5 1 60'6 60'6 60'9 60' 53-36'9 cut 53 * 30'8 * 150' 172' 13'6' 15'
8 5'8' 0603	53 ² 1," (49 ² C" BENT 4 2 4 (16:6) C411 127 1:4" 5:0" 6"	35 56'0" S1109	1 8 25-6 S805 Str.	75-5620 cut 75 * 373 \$ 17-0 21-72 15-72 20-
8 5-10° C604 8 6-0" C605	4 4 (18:1") C412 127 1:4" 5:6" 6"	4 32-0" SIIII	79 // 41-0" SHOI Str.	53 - S621 cut 53 * 4571" 1" 21-6" 25-10" 20-1" 24
8 6:4" C606	1 4 (25°1") C414 127 1°4" 8°0" 6"	4 17-0" SIIIZ	75 34°0′ \$102	4 - B/007 cut 4 V20-7 1" 60-0 60-3" 60-4 60-
8 † 7-10" C607 † 21 6 4-0" C629 Str.	8 6 5'8' 0603 Str.	2 18-0" SIII3	79 30-0* S1/06	Series noted thus * shall be tagged with a and b.
27 0 70 5020 500.	8 5-6" (617		83 520' \$1107	BENDING DIAGRAMS
BENT 2	8 5 ^t 7' (26/8) 8 5 ^t 9" (26/9)	18 6 11:0° H601 Str. 6 6 6:6° H602 Str.	34 2840° \$1006 41 5640° \$1009	hcok B A A
2 4 531'5" C401 127 2'3" 2043 23" 1 24 617'9" C404 127 2'3" 19'114 23"	8 5-4" C620		38 44'0" SIII0	A hook C
	8 5-1" (621	6 4 9-7" V401 124 3-1- 2-8" 1-1- 2-9"	5 32'0" \$///1	100 105 109
24 9 12-4" C901 126 5:0" 2:4" 7:0" 1:6" 16 9 20:40" C903 Str.	8 8-1" C622 21 6 4-0" C623 Str.	1 12.5" V402 4.6" 2.8" 2.6" 2.9" 2 11.7" V403 4.1" 2.8" 2.1" 2.9"	4 17 ² 0" SIIIE	A B
8 9 20 ⁻⁴ CS05 Str.		1 10-11" 1/404 3-9" 2-8" 1-9" 2-9"	1 11 ² 0* S1117	A A A A A A A A A A A A A A A A A A A
DENT L	SUPERSTRUCTURE - DECK	1 10-1" V405 3-4" 2-8" 1-4" 2-9" 1 12-7" V406 4-7" 2-8" 2-7" 2-9"	1 19'6" SIII8 4 1/1 36'0" SIII9 Str.	0/ B C\
BENT 3 1 4 603'11" C402 127 2'3" 19'5\$ 2\$"	EAST BRIDGE 106 5 5'3" 8501 124 0" 2:0" 5" 2:10"	1 10-7" V407 3-7" 2-8" 1-7" 2-9"	4 17 30.0 Sin Sin.	$\frac{1}{C}$ \sqrt{D}
1 4 597-0" C403 127 2-3" 19-3" 23"		1 9-9" V408 3-2" 2-8" 1-2" 2-9"	16 6 11-0" H601 Str.	<u>123</u>
1 4 569°2" C405 127 2°3" 18°4" 2°3"	120 6 14°2" B601 109 4°7" 2°0" 6" 4 1 13°2" B602 109 4°7" 1°6" 6"	6 4 9-5" 1409 124 3-0" 2-8" 1-0" 2-9"	6 6 6-6" H602 Str.	A = A
24 9 124 0901 126 340" 24" 740" 146"	18 19 ² 7" B603 109 6 ² 7" 2 ² 6" 6"	16 4 27:9" NAOI Str.	12 4 10:0" 1410 124 3:1" 2:8" 1:5" 2:10"	Note: Make one full
8 19:11" C902 Str.	107 16°2" B604 109 6°21" 2°6° 6°	8 31-10° W402 Str. 154 4'-2° W403 123 10° 10° 11' 10°	1 13:0° V411 4:7° 2:8° 2:11° 2:10° 1 12:0° V412 4:1° 2:8° 2:5° 2:10°	top and bottom
8 19 ² 6" C904 Str. 8 9 18 ² 9" C906 Str.	6 6 8 ² 8" B606 Str.	26 4 5'-6" W404 105 2'8" 10" 2'0"	1 11-2" 1/413 3-8" 2-8" 2-0" 2-10"	1011 10 11 81 Spire
			1 10°2" V414 3°2" 2'8" 1'6" 2'10" 1 13°3" V415 4°9" 2'8" 3'0" 2'10"	4 to spiral before A
53'1' (49'0" BENT 4 / 4 \(\)(16'8") (C411 \(\)(127 \(\)(14" \(\)(5'0" \(\)6"\(\)	6 10 49'3" B1001 Str. 20 10 13'0" B1002 Str.	8 4 5 ¹ 8" P401 Str. 8 7 ¹ 8" P402 1	1 12:3" V416 4:3" 2:8" 2:6" 2:10"	B concrets.
3 (18:1") C412 1:4" 5:6" 6"	3 10 104'9' B1003 Str.	8 23-10" 12403	1 11:5" 1/417 3:10" 2:8" 2:1" 2:10"	
3 (15*3") C415 1'4" 4'6" 6" 1 4 (20*11") C418 127 1'4" 5'6" 6"		16 24-9" P404 Str. 180 4 4-10" P405 109 1-6" 65" 42"	1 4 10:5" 1418 124 3:4" 2:8" 1:7" 2:10	130 127
44.40 61-31	34 11 10°0" B1101 Str.	100 4 4 10 1400 109 1-0 08 48	20 4 27º9" W401 Str.	C hook D
8 6 5 ⁻⁶ C603 Str.	3 105' " B 03 Str:	WEST BRIDGE	10 31-10" W402 Str. 26 7-0" W405 105 2-0" 2-6" 2-6"	A
8 6-6" C614 1 24 4-10" C615	6 4 30°0" S401 Str.	115 5 5:3° B501 124 0° 2:0° 5° 2:10°	26	<u>131</u>
8 5'3" (616	8 4 17 ² 8° \$402 \$tr.	188 6 14 ¹ 2* 8601 109 4 ¹ 7* 2 ¹ 0* 6*		DDIDCE: MED ASS OVER UP OTER
6 5'6" C617 55'7" C618	181 6 29:6° S601 Str.	4 13'2" 5000 4 4'7" 1'6" 6" 4 19'2" 8603 5 6'7 2'6" 6"	8 4 5'8' F401 Str. 8 7'8 P402	BRIDGE: LANES CAD OVER I'M STRI
8 5 ¹ 7" C618 1 24 6 4 ¹ 0" C62 3 Str.	15 22'3" S602 1	119 1 18 ² 2" 3604 109 6 ² 1" 2 ² 6" 6"	8 2340" F403	STATE ROAD SAMESMENT PREEWAY IN KANSAS CITY, MO.
	38 [22·7" S603	121 6 6:0° becs Str.	16 24-9" P404 Str.	PROJECT NO. I-352 (II)(FAI-RTE. 4) STA. 27 + 63.96 (LAME
OWARD, NEEDLES, TAMMEN & BERGENDOFF	15 21-0" S604 38 6 21-4" S605 Str.	16 10 15°2" B1004 Str.	130 4 4-10" 17405 109 1-6" 65" 45"	JACKSON COUNTY
CONSULTING ENGINEERS	30 10 21-4 3000 317.	10 10 10 L MOOT 011.		
KANSAS CITY NEW YORK			REINFORCING SCHEDULE SHEET	T 2 OF 9

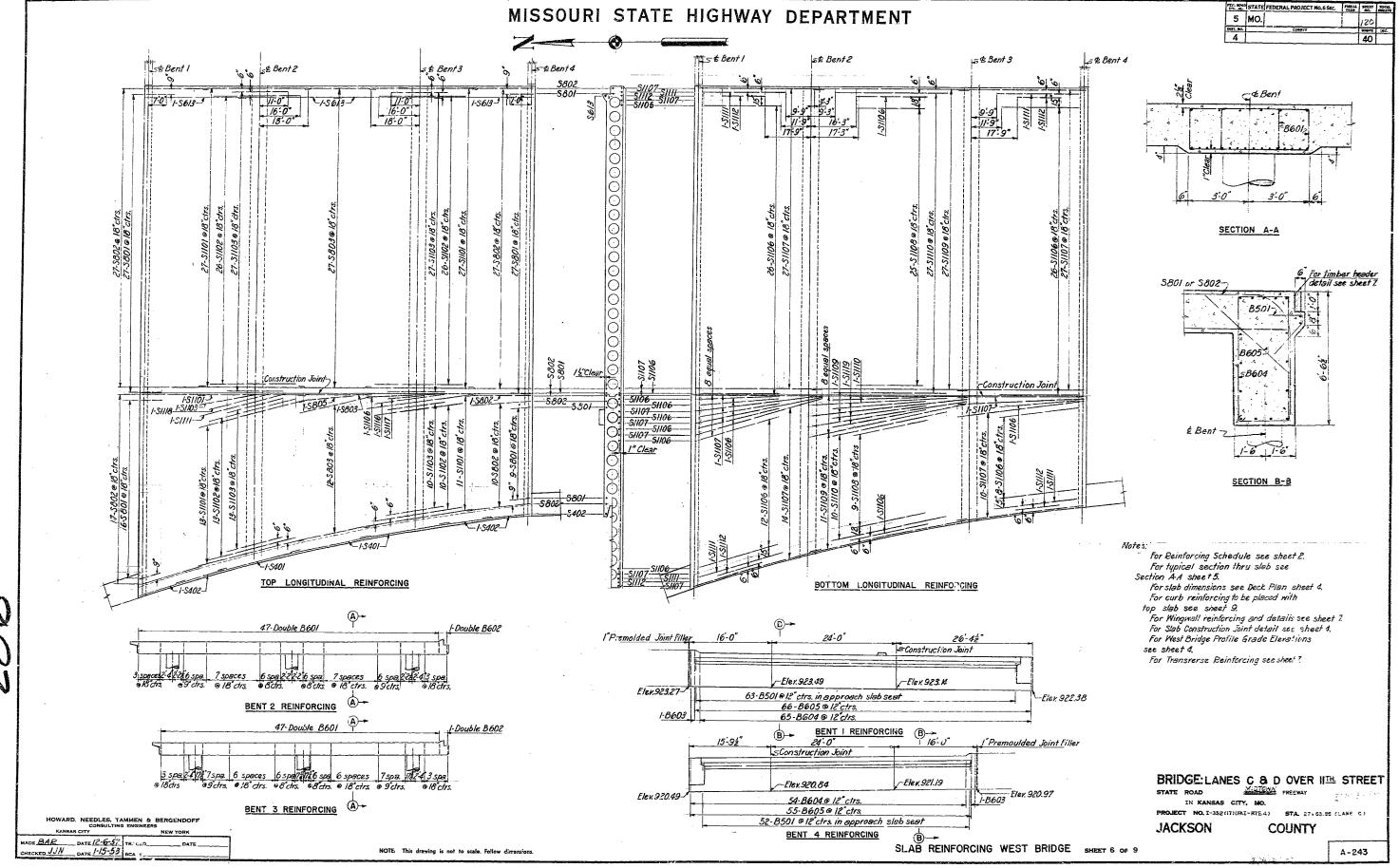
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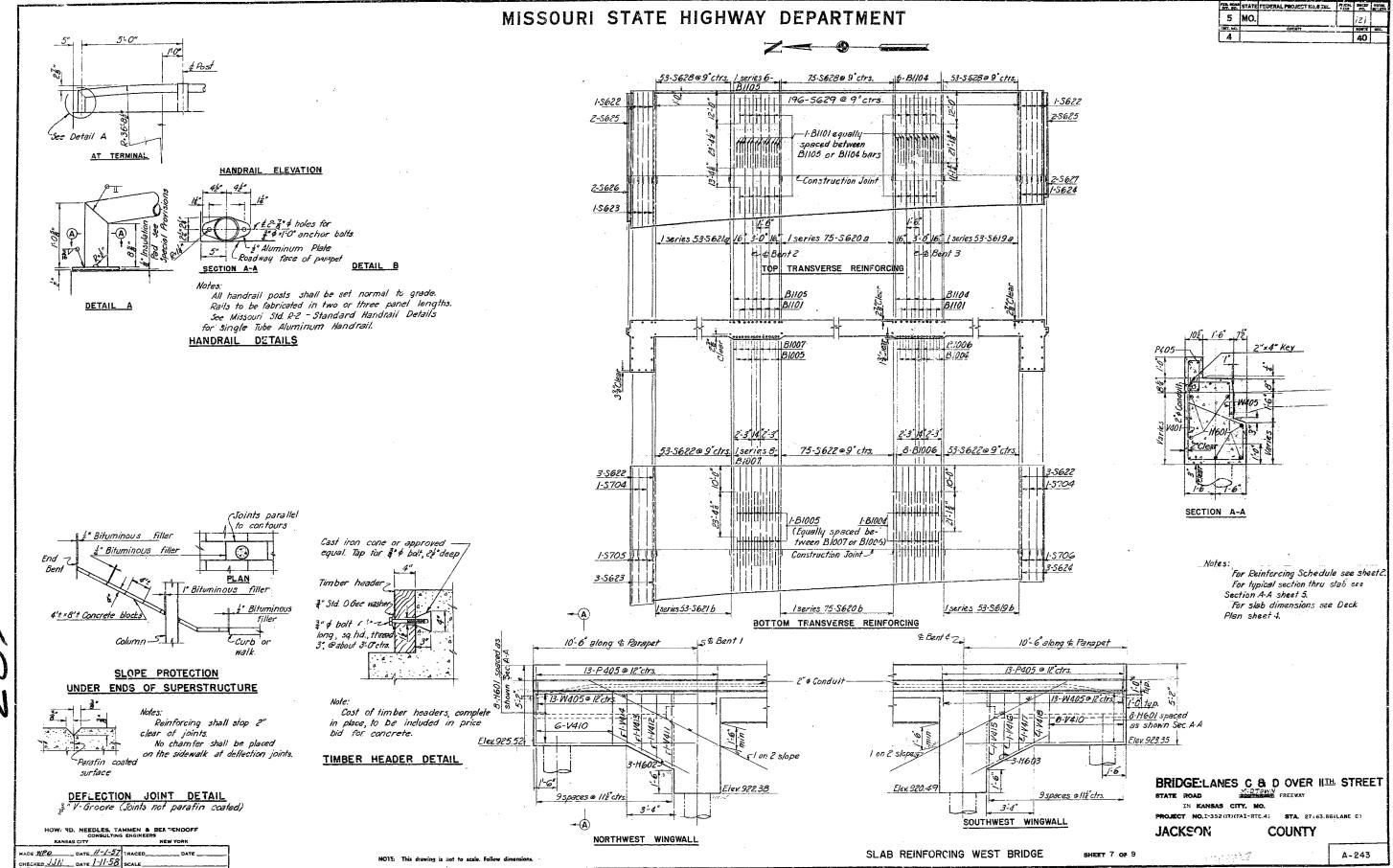


SEE FINAL PLANS BROWN-LINES

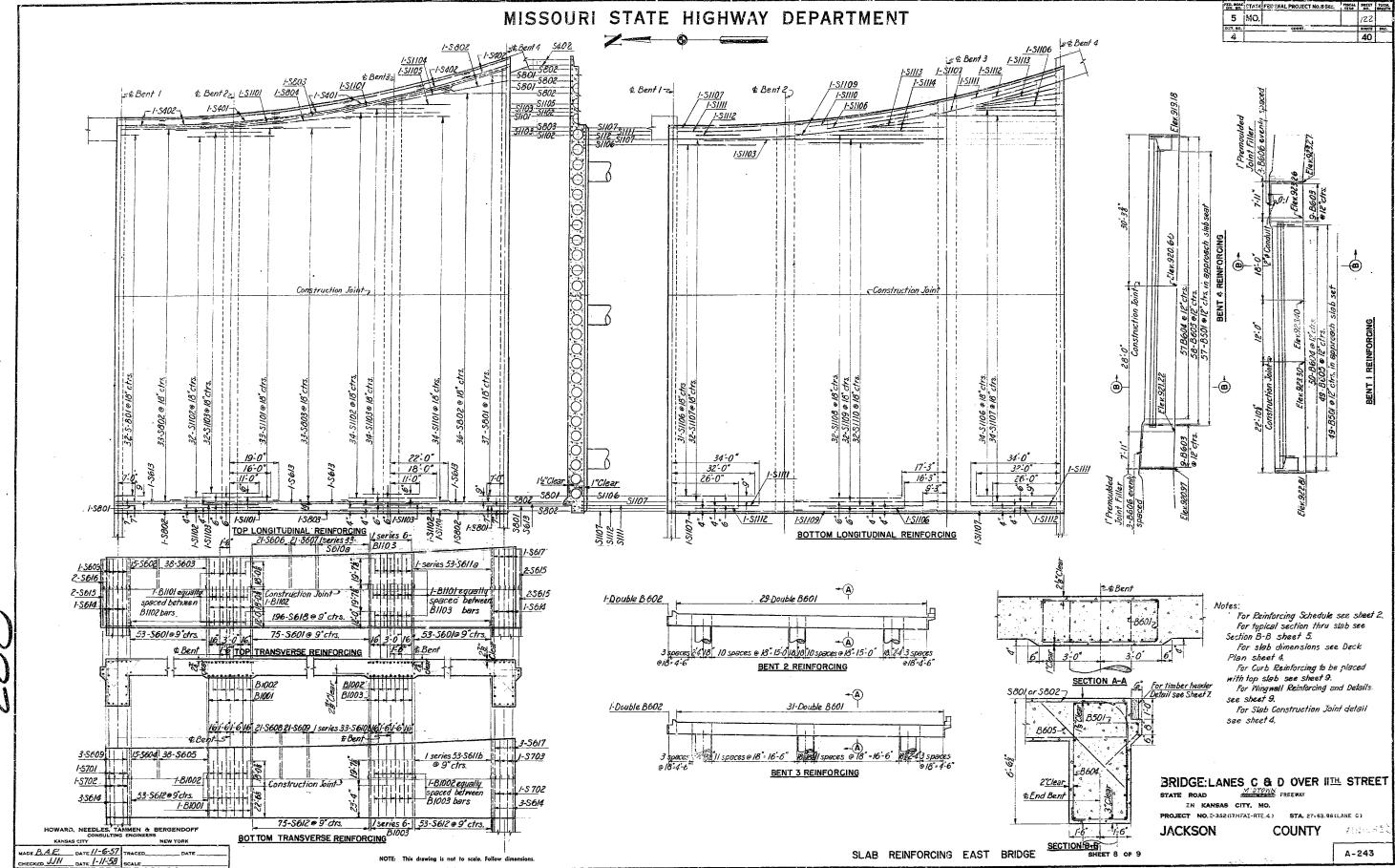




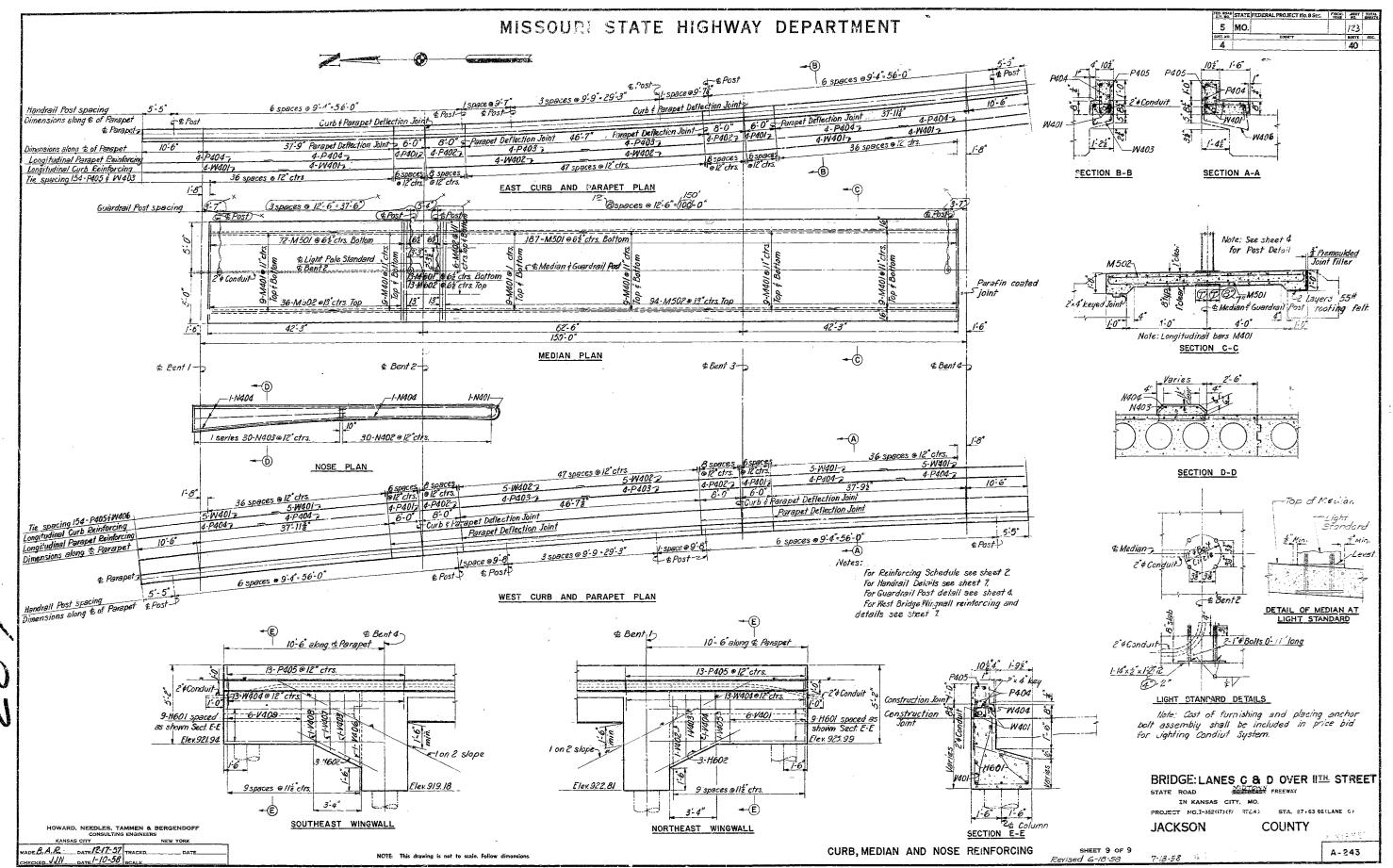




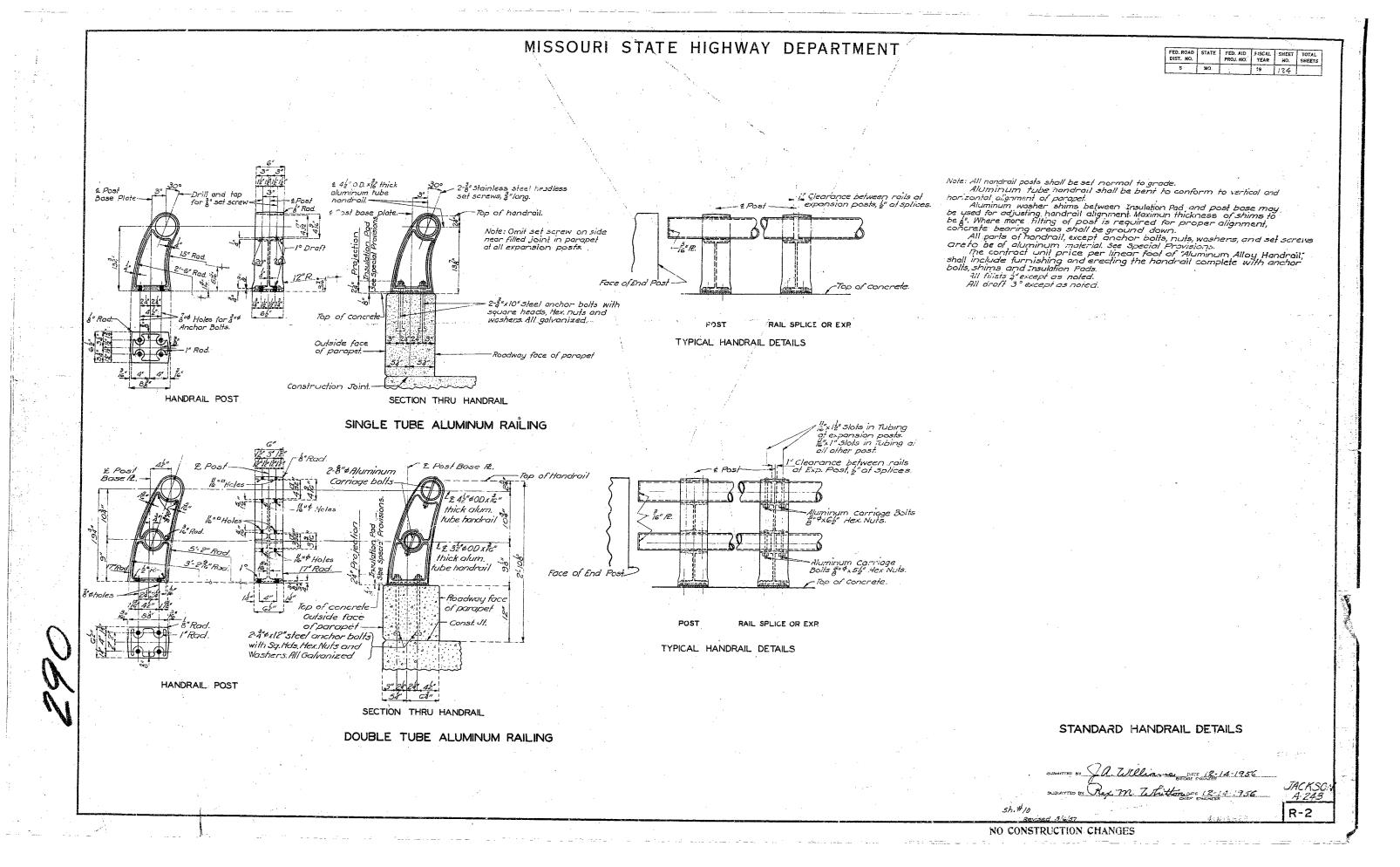
9

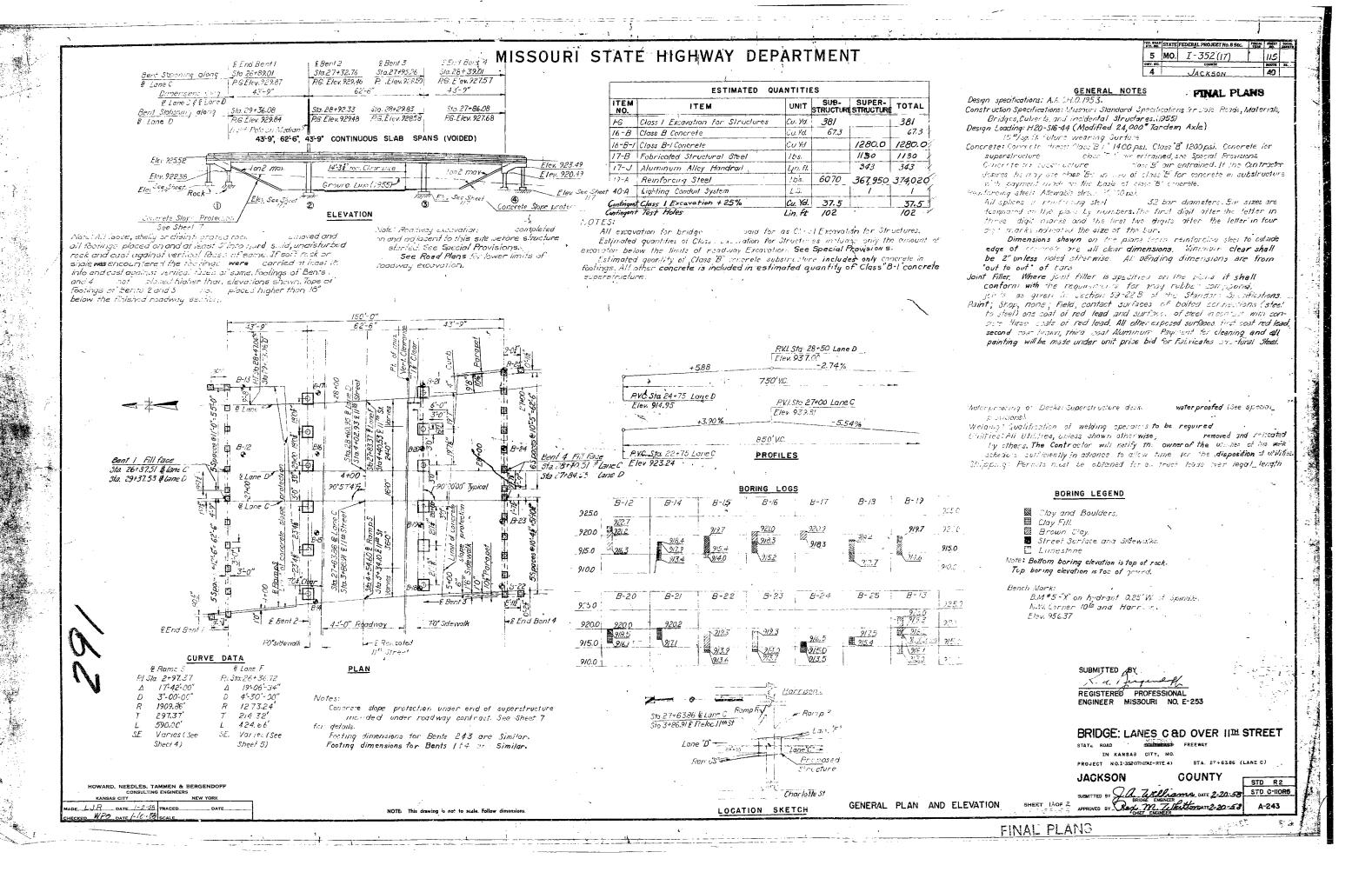


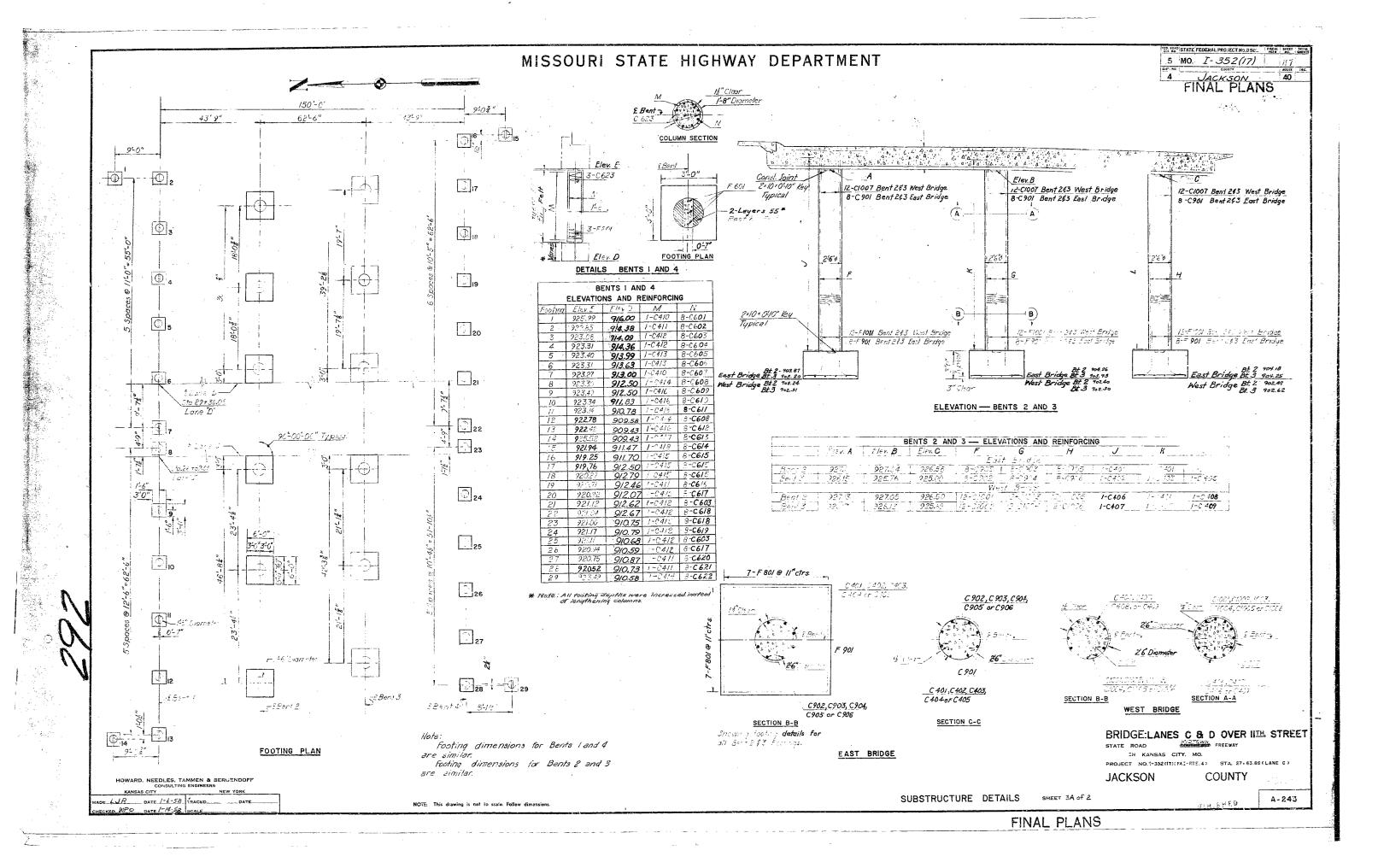
NO CONSTRUCTION CHANGES

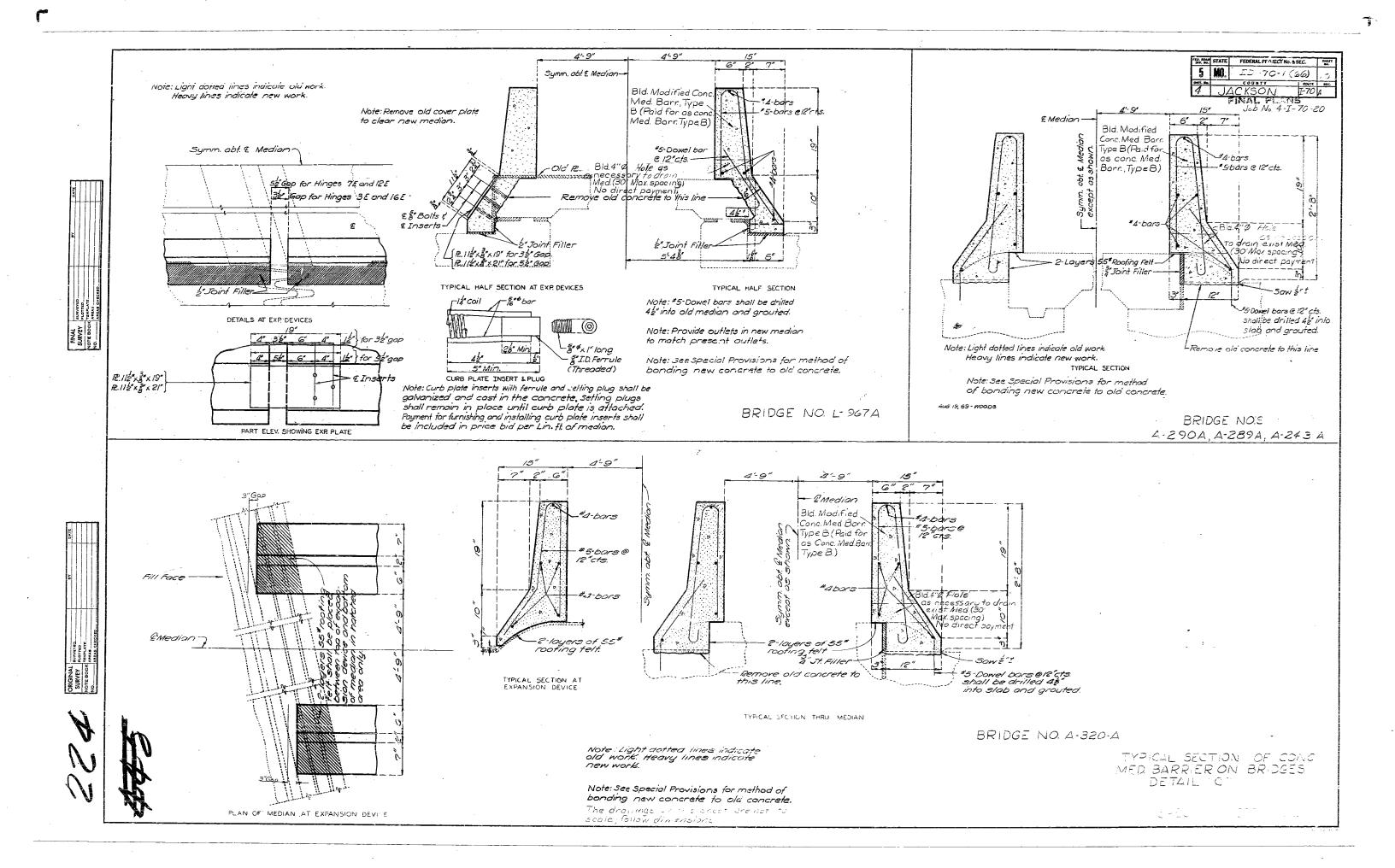


NO CONSTRUCTION CHANGES









MISSOUR! HIGHWAY AND TRANSPORTATION COMMISSION

* Two additional bors are included for testing.

			Бi	LL OF	RE	INFOR	CING ST	EEL		
	NO.	SIZE	LENGTH	WEIGHT			BE	NDING DIA	GRAM	
	184	MAFY 5 E/	2'-8"	LB.		, <u>£</u>	3£"	3 <u>2</u> 2"	•	<u> </u>
TOTAL	184	5 RZ	2'-9"	528		,,			-	
-/	2	5 R3	9'- 9"	48 20	*	[e [*]		\\;	٥	0
7.7	- 22	5 85	11'-9"	270		Ö			Y U	
90	7	5 RG 5 R7	32'- 2" 9'-9"	235 285		1 1		V	<u> </u>	
4921	28	5 27 5 28		309		R	1	R2		RIO
826	7	5 89	32'-0"	234		,	o" 63			
171						Ĩ				
750						į		14		
29	<u> </u>	5 <i>210</i>	23")	Į į		
		5 E11	2'-11"			Г		j i	Vorio	25
						ـا	12"			
						F	R 11	f	3 THI	RU R9
	1 1									

Took cost shall be emulsified aschalt applies of a rate of 0.05 gollons per square yord.

ESTIMATED QUANTITIES

Mineral Angresate (Asph. Care) (Tupe A Mix.) Ton Tock Cost - Emulsified Asphalt Gol.

Conduit System on Structure Lumpa. Superstructure Concrete Repair (Uniformed) Sq. Ft.

Special Work Cathodic Protection System

Asotalt Cement GO-70 or AC 80

Bepairing Concrete Deck (HNF Soling) Full Depth Repair

afety Borrier Curb

Deck Overhong Repair

Traffic Stages (See Below) PLAN Varies 46'2" to 35'7" t - 12 "(min.) Asphalt Concrete Cottodia System /-Temporary Borrier Curb (Edwy. Item) (Tup.) SECTION A-A (STAGE ONE) 12:6" Vories 32-8" + 40 22-1" + - 1/2" (min.) Asphalt Concrete Cothodic System SECTION A-A (STAGE TWO) Varies 34-8" to 64'-1"

TIVE" (min) Aspholy Concrete

SECTION A- A (STAGE THREE)

Vories 65-2" + to 52-7" +

la" (min.) Asphalt Concrete

Cothodic System

DESIGNED MARCH () 84 SECTION A-A (FINAL STAGE) DETAILED March 1984

Note: This drawing is not to scale, follow dimensions.

& cothodic System

S.B.L. N.B.L. TOTAL

3.7

75 69 144 50 40 90

430 396 826

£75

2771 4921

4.0

2150

171

375

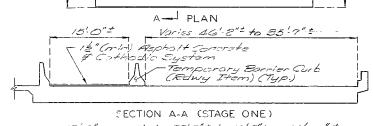
29

700

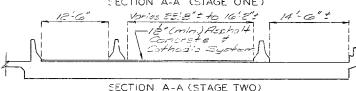
601. FF.

Lin. Ft.

All reinfacting steel Shall be spory contest.
All dimensions for E-bars are out to out.
Hooks and bends shall be in accordance with the
CESI Manual of Standard Proties for Detailing
Elinforced Concrete Structures stirrup and tie dimensions. centerline our and to the nearest inch. Traffic Stages



(See Below)



Varies 36'-2" to 88-8" t -12" (min) Aspinolt Concrete ? Cathodic System SECTION A-A (STAGE THREE) Varies 55'2" + to 47'2" + là "(min.) Aspron f Cothado Eystern "(min) Aspnolt Car rete

SECTION A- A (FINAL STAGE)

Sheet No. / of /O.

FED. FOAD STATE FED. AND FES. 27 SHEET TOTAL DICT. NO. PROJ. NO. CHAR CO. SHEETS SEC./SUR.

NOTES:

Design Specifications: A.A.SH.TO. 1377 and Interims

Design Unit Stresses:

Class Bl Concrete

FE = 401/22.

Reinsbreing Steel (Grade GO) - fy = GO,000 psi

Joint Filler: All joint filler shall meet the regiment of Std. Spec. 1057.2.4 except as moted.

Reinforcing Steel: Minimum cleargace to reinforcing steel sholl be it unless otherwise shown.

Traffic: Traffic over structure to a maintained during construction.

Outline of Old work is indicated by light dashed lines. Heavy lines indicate new work. Ears bonded in old concrete not removed shall be cleanly stripped and embedded into national concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars.

match le" + bridge overlay. (Roodway I tem)

Construction Clearance: Aminimum vertical decrance of 18-6" from grown of existing lanes and a minimum lateral clearance of 82-6" marmal to \$11th street centered on existing lancs shall be maintained during construction.

REPAIRS TO

BRIDGE : LANE C & LANE D OVER HTH. STREET

STATE ROAD; MIDTOWN FREEWAY

DATE 6/29:84

IN KANSAS CITY

JACKSON

PROJECT NO. I-IR-70-1 (101)

STA. 27+63.86 (LANE C)

JOB NO. 4-1070-450

RTE. 1-70

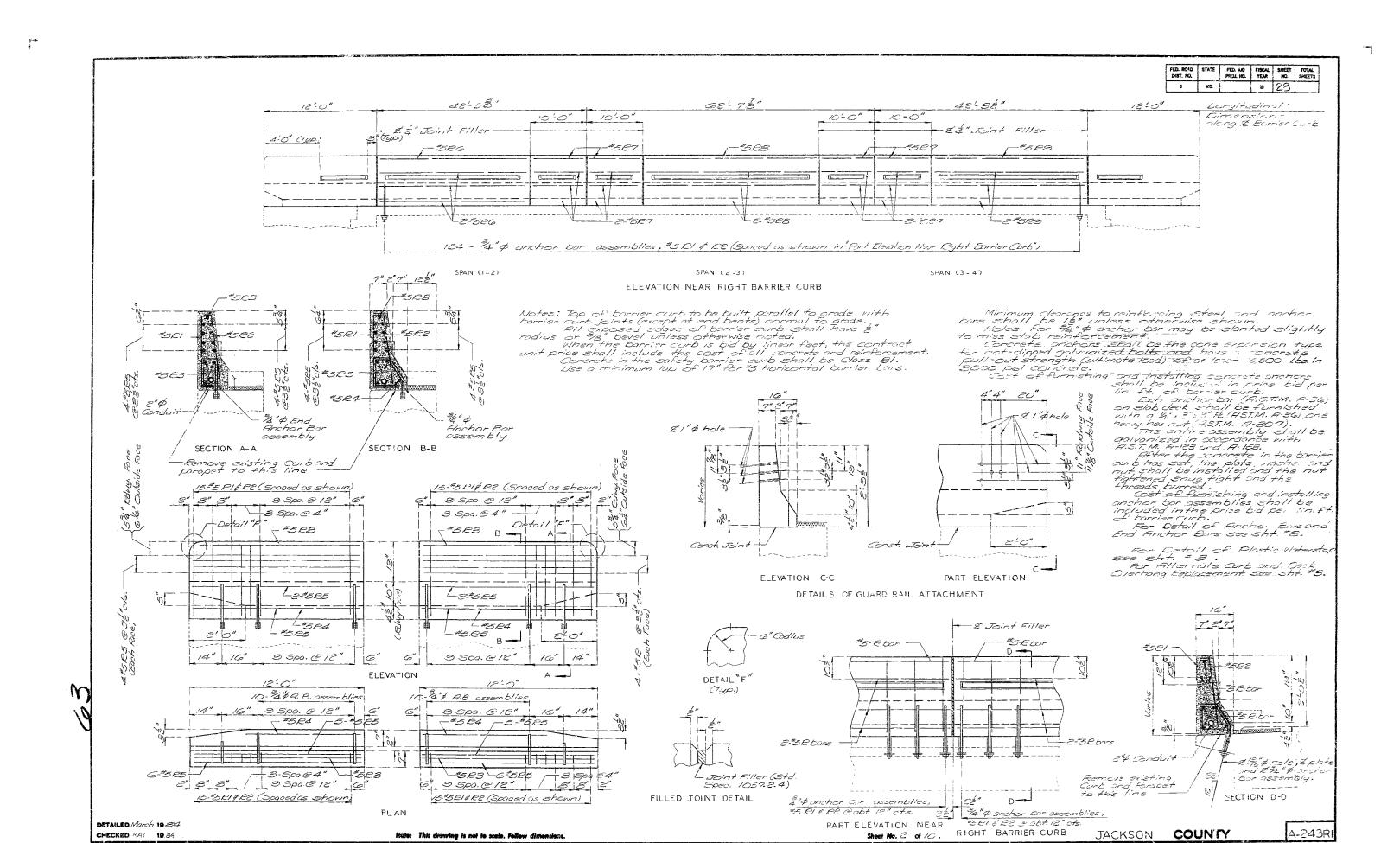
COUNTY

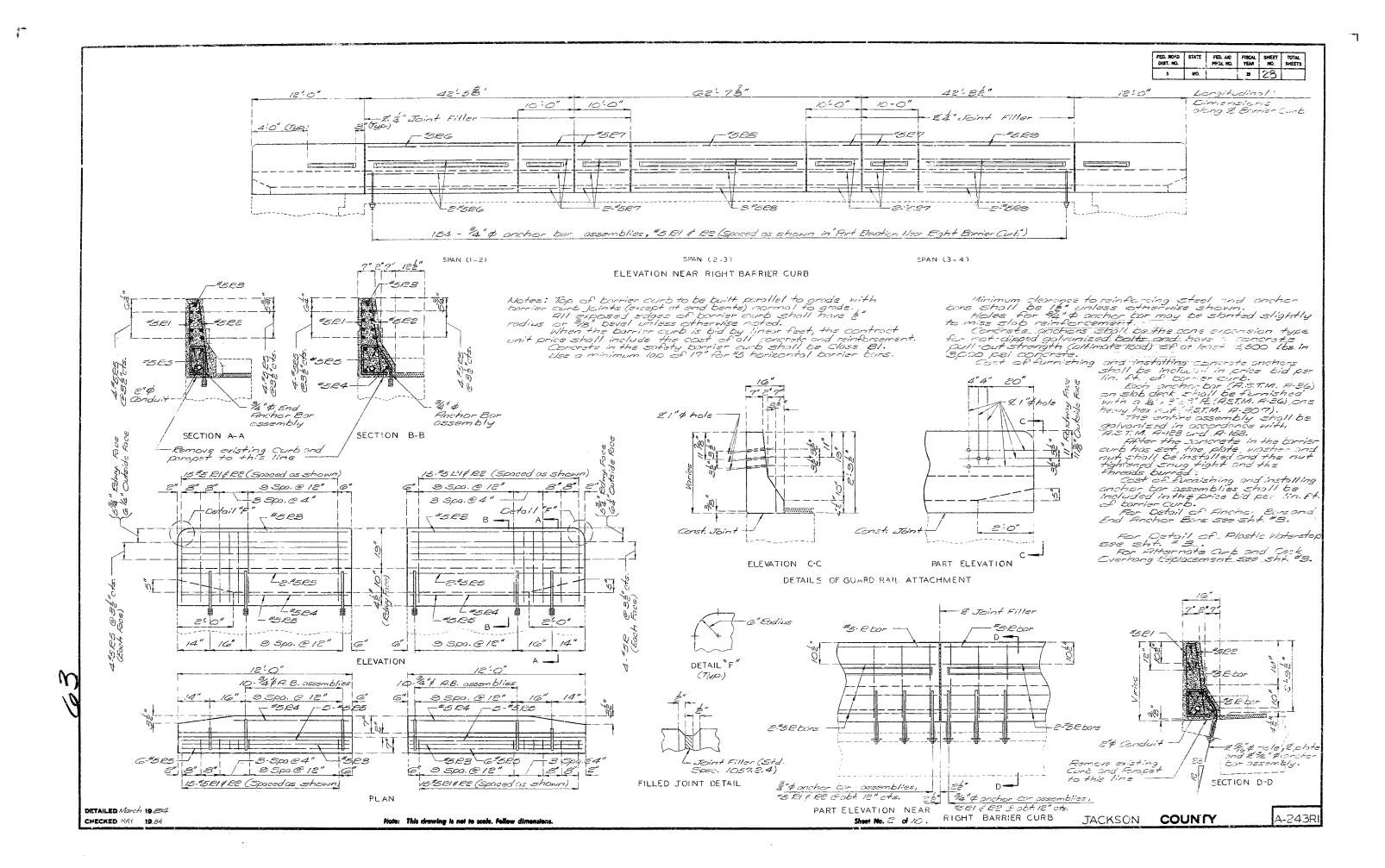
A-243RI

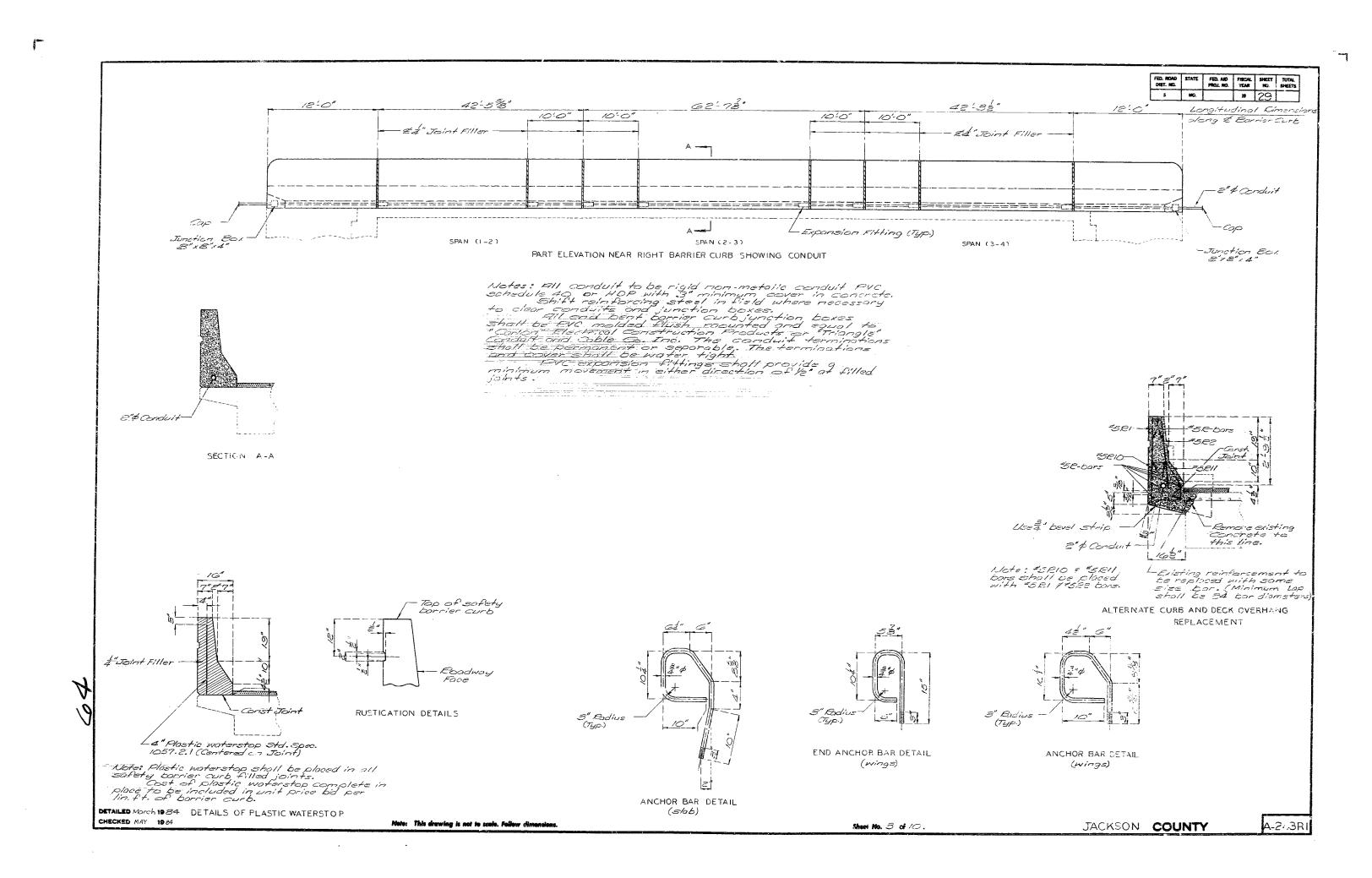
STD. 706_35

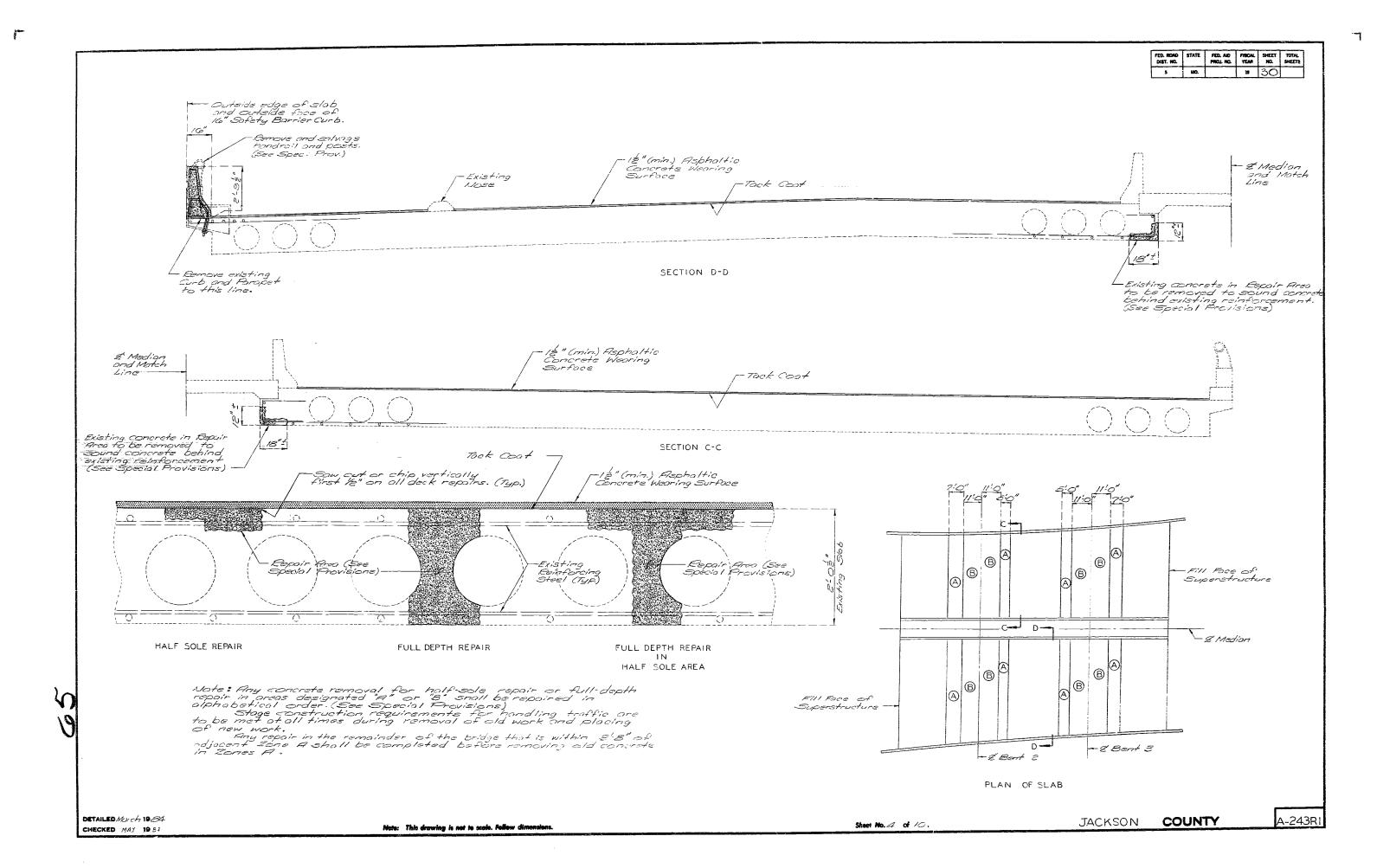
STD.

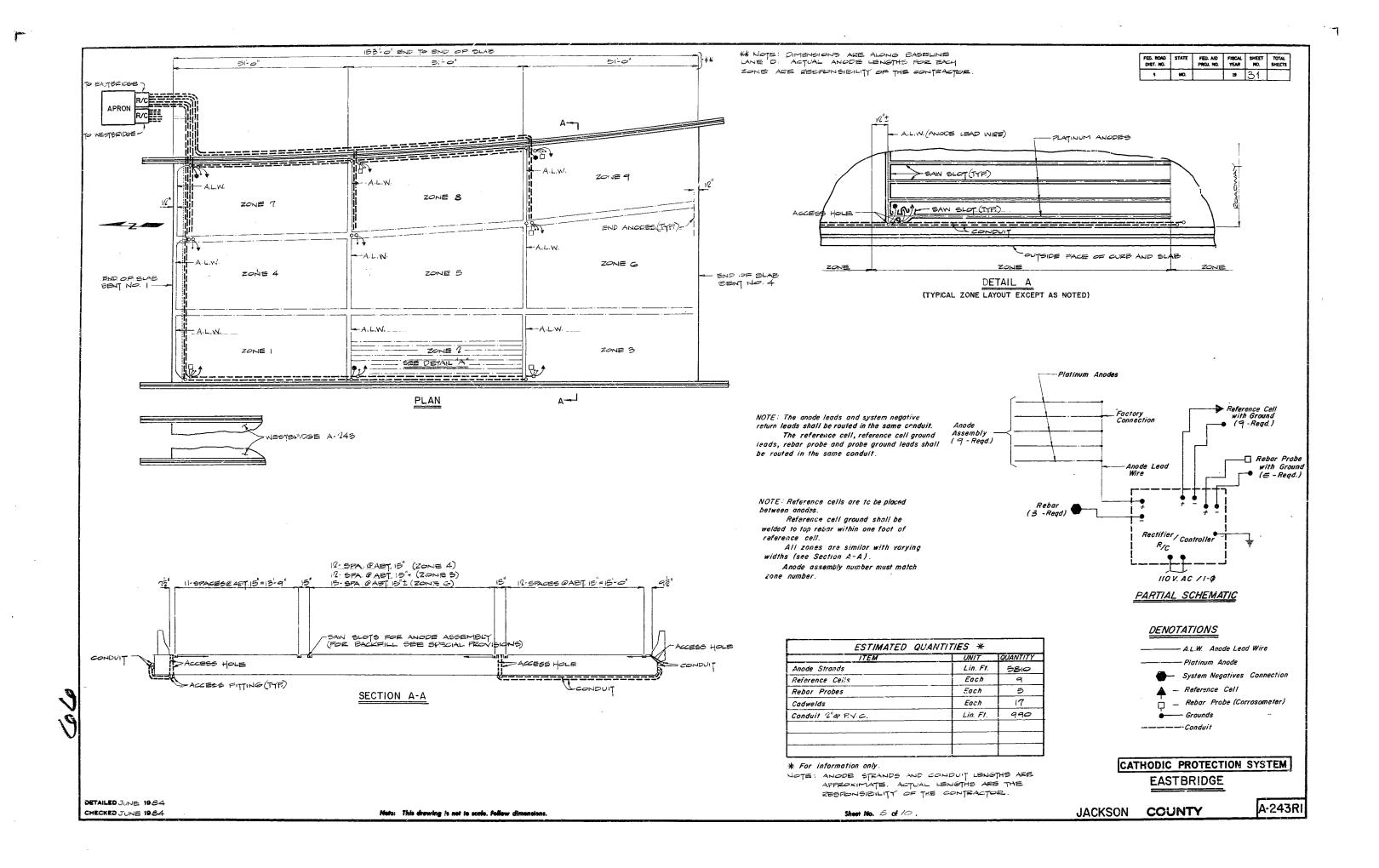
CHECKED MAY 18 84

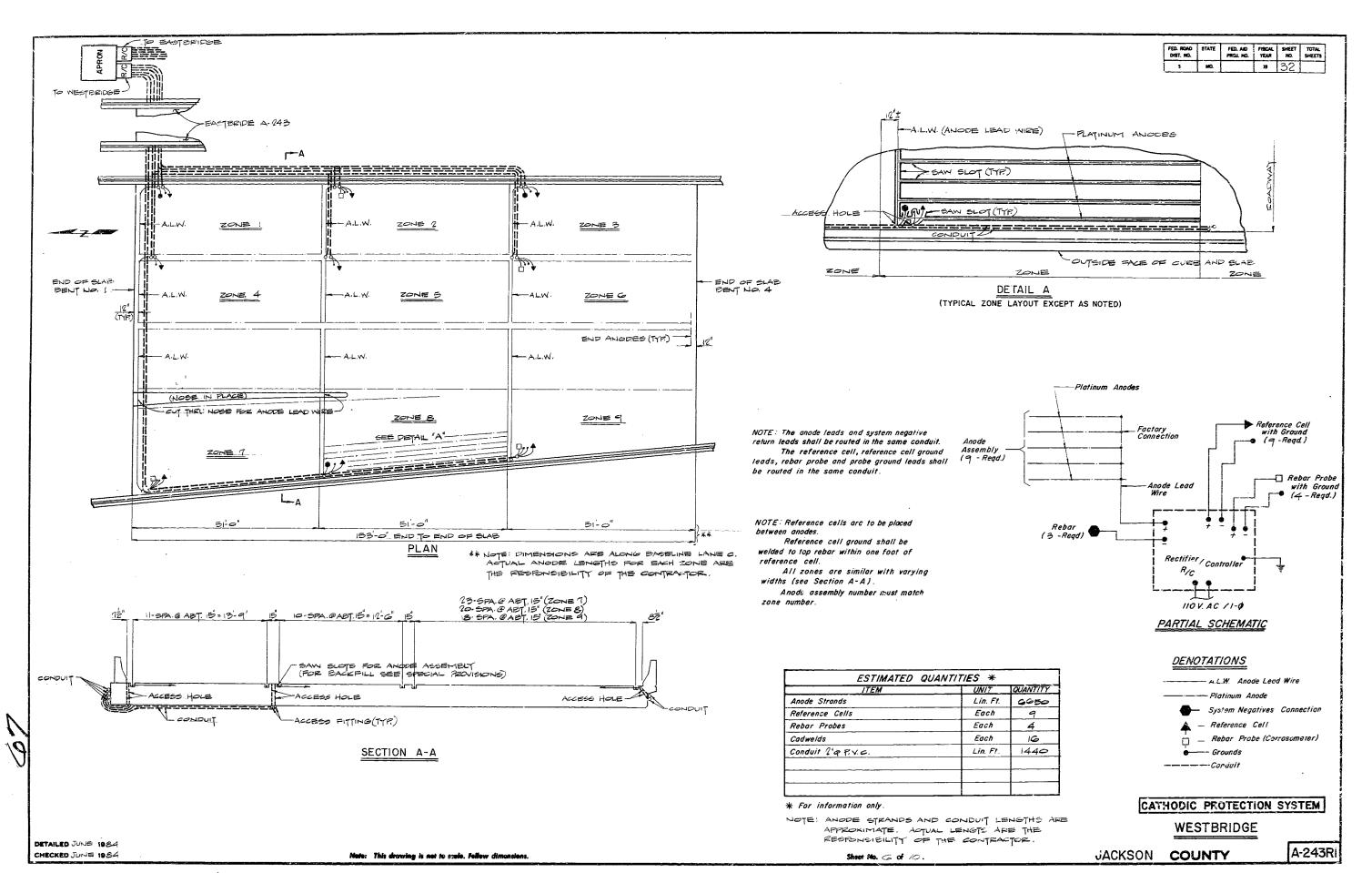




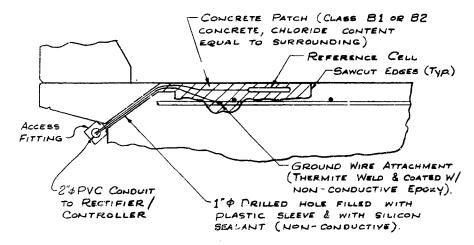




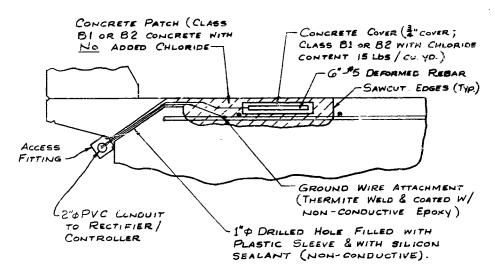




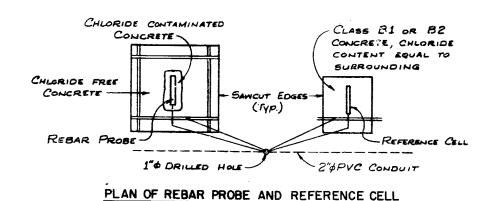
PROJ NO



REFERENCE CELL DETAILS

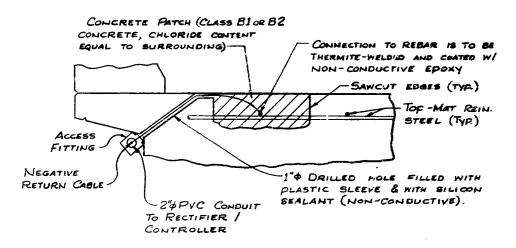


REBAR PROBE DETAILS



FX SAWED SLOT (TYP.) (SEE SPECIAL PROVISIONS) -AHODE TO LEAD WIRE CONSECTION (FACTORY ASSEMBLED) TYP. ACCESS FITTING . -1" DRILLED HOLE FILLED WITH PLASTIC SLEEVE (2" PVC CONDUIT & WITH SILICON SERLANT (NON-CONDUCTIVE). TO RECTIFIER / ANODE LEAD WIRE, ANG NO. 10 STEAL DED CONTROLLER COPPER WITH HMWPE INSULATION. THE LEAD WIRE SHALL BE SUFFICIENT LENGTH TO ETENO TO THE RECTIFIER / CONTROLLER WITHOUT SPLICING.

ANODE LEAD WIRE DETAIL



NOTE: DETAILS ARE FOR ZONES 7,8 & 9 OF EASTBOUND AND WESTBOUND BRIDGES.

SEE SHEET NO. G FOR ROUTING OF CONDUIT ON EASTBOUND BRIDGE.

SEE SHEET NO. 7 FOR ROUTING OF CONDUIT ON WESTBOUND BRIDGE.

SYSTEM NEGATIVES CONNECTION DETAIL

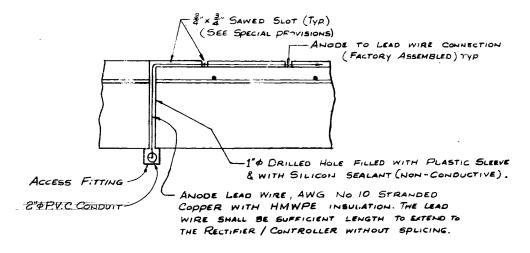
NOTES: CONDUIT SHALL BE SCHEDULE 40 HEAVY WALL PVC (POLYVINYL CHLORIDE PLASTIC). CONDUIT SHALL BE SECURED TO CONCRETE WITH CLUMPS @ ART. S'COURES, WEED HOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE COMOUNT LINES. THE LOCATION AND DIRECTION OF CONDUIT MAY BE SHIFTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER. LISE EXPANSION COUPLINGS AND ACCESS FITTINGS WHERE APPROPRIATE.

DETAILED JUNE 1984 CHECKED JUNE 1984

COUNTY **JACKSON**

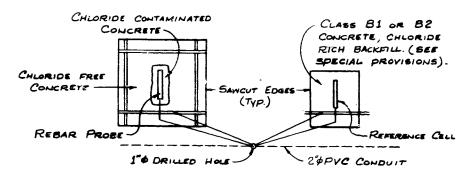
A-243RI

SYSTEM NEGATIVES CONNECTION DETAIL

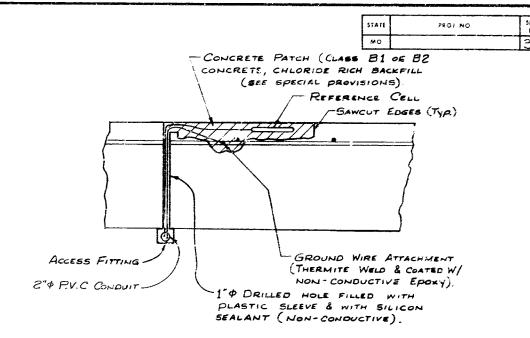


ANODE LEAD WIRE DETAIL

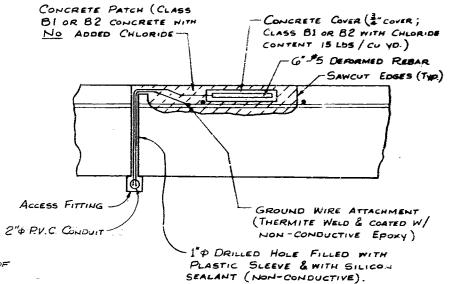
2" P.V.C. CONDUIT



PLAN OF REBAR PROBE AND REFERENCE CELL



REFERENCE CELL DETAILS



NOTE: DETAILS ARE FOR ZONES 1 THRU G OF EASTBOUND AND WESTBOUND BRIDGES.

SEE SHEET NO. G FOR ROUTING OF CONDUIT ON EASTBOUND BRIDGE.

SEE SHEET NO. 7 FOR ROUTING OF CONDUIT ON WESTBOUND BRIDGE.

REBAR PROBE DETAILS

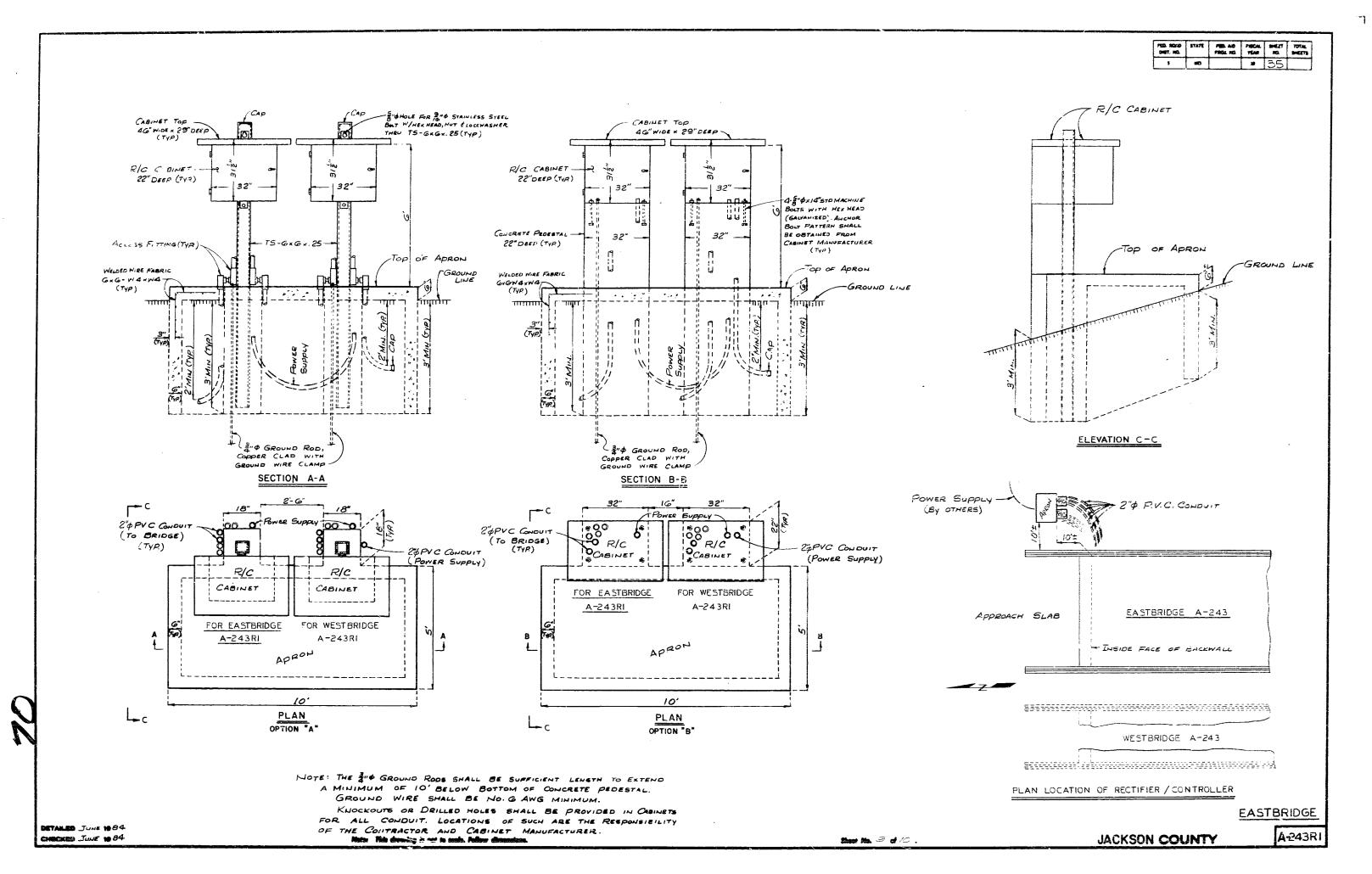
NOTES: CONDUIT SHALL BE SCHEDULE 40 HEAVY WALL PVC (POLYVINYL CHLORIDE PLASTIC). CONDUIT SHALL BE SECURED TO CONCRETE WITH CLAMPS @ AST 5'CONTRES. WEED HOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE CONQUIT LINES. THE LOCATION AND DIRECTION OF CONDUIT MAY BE SHIFTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

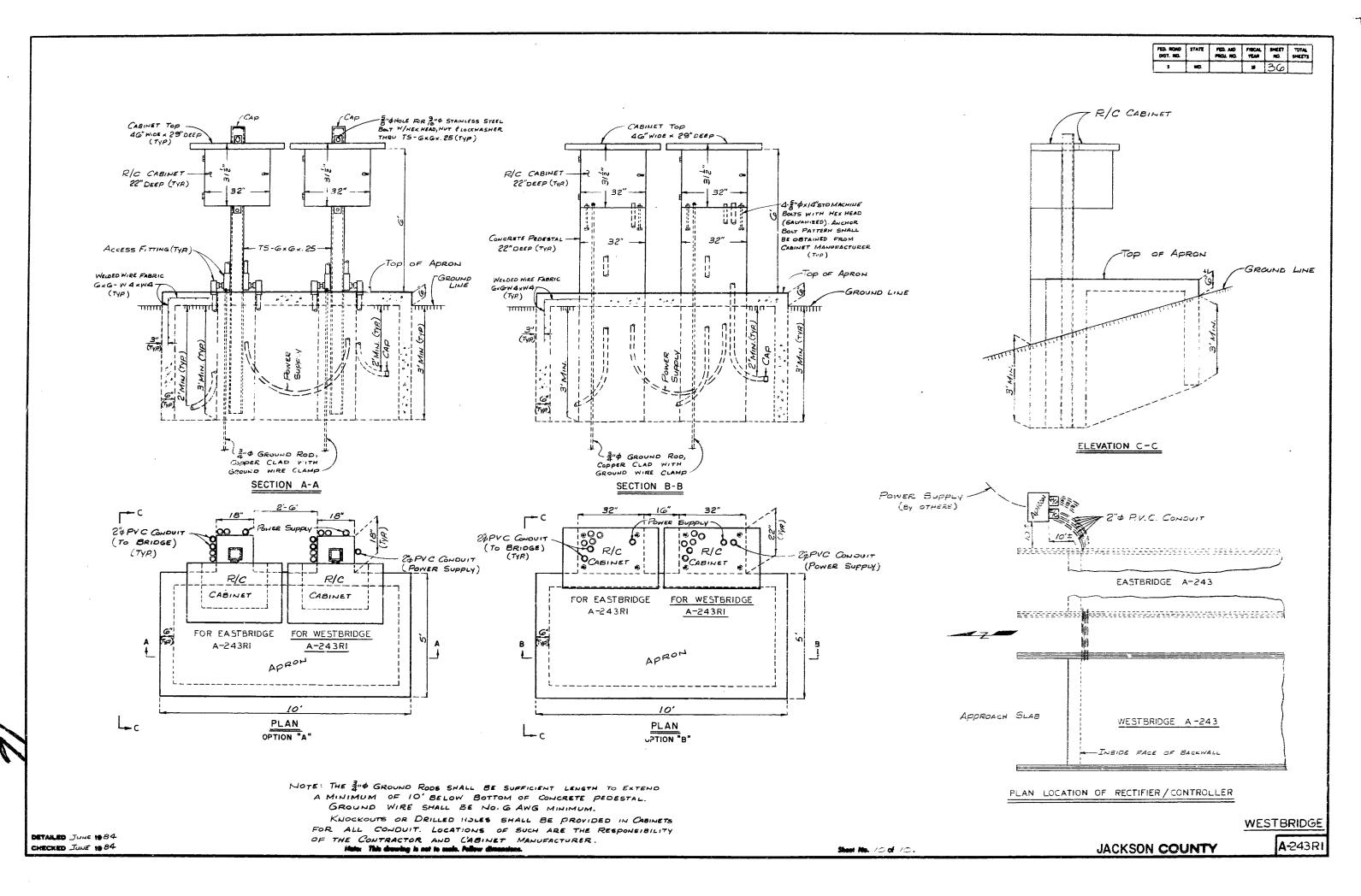
LISE EXPANSION COUPLINGS AND ACCESS FITTINGS WHERE APPROPRIATE

DETAILED JUNE 1984 CHECKED JUNE 1984

JACKSON COUNTY

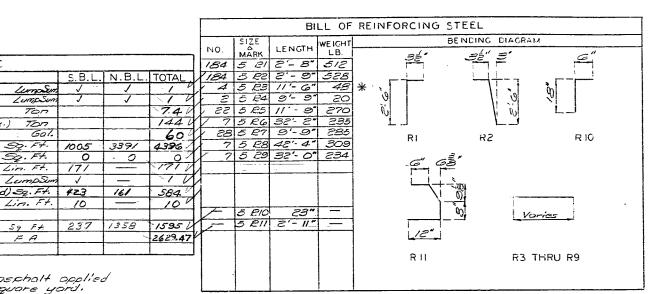
A-243RI





MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

* Two additional bars are included for testing.



Tock cost shall be emulsified asphalt applied of a rate of 0.05 gallons per square yord.

Superstructure Concrete Repair (Unformed) Sq. Ft. 423

ESTIMATED QUANTITIES

Lumosum

700

700 Gal

0

171

✓

10

. 0

161

5q. Ft.

Lin. Ft.

LumpSum

Lin. Ft.

59 F+

FA.

Special Work . Cathodic Protection System

Asphalt Cement 60-70 or AC 80

Repairing Concrete Deck (rish Soling)
Full Depth Repair

Conduit System on Structure

Sofety Borrier Curb

Deck Overhang Repair

3/4 Depth Repair

DESIGNED MARCH 19 84

CHECKED MA: 19 54

DETAILED March 1984

Repair void Tubes

Mineral Aggregate (Asph. Conc.) (Type A Mix.)
Tock Coot - Emulsified Asphalt

Troffic Stoges (See Below)

PLAN Varies 46-2" = to 35-7" = - 12" (min.) Asphalt Concrete Cothodia System z Tempomry Domier Curb (Rdwy. I tem) (Typ.)

SECTION A-A (STAGE ONE) 13'6" Varies 32'8' to 22'1" to 11'6" (min.) Asphalt Concrete Cothodic System

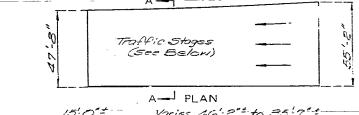
SECTION A-A (STAGE TWO) Vories 34'8" to 64'-1" -1/2" (min) Aspinal Concrete Ecothodic Syste SECTION A-A (STAGE THREE) Varies 65-2" t to 52-7" t

là" (min.) Asphalt Cencrete Cothodic System

SECTION A-A (FINAL STAGE)

Note: This drawing is not to scale. Follow dimensions.

All reinforcing steel shall be epoxy costed.
All dimensions for E-bars one out to out.
Hooks and bends shall be in accordance with the
CRSI Manual of Standard Practice for Detailing
Reinforced Concrete Structures stirrup and tie dimensions. Actual lengths of reinforcing bars are measured along centerline bar and to the nearest inch.



Varies 46'-2" to 35 7"+ 15:0"= - 12" (mia) Aspholt Concrete Temporary Barrier Curb (Rdwy Item) (Typ.)

SECTION A-A (STAGE ONE) 14'-6" ± Vories 23 8 1 16 16 21 -le"(min) Aspholt Cothodie System

SECTION A-A (STAGE TWO) Varies .36'.2" to 88'8" t - 12 (min) Ascholt Concretes Sthools System SECTION A-A (STAGE THREE) Varies 55'8": to 47'8": 12 "(min, Aspast Corprete Cotoss = System

SECTION A- A (FINAL STAGE)

FED. RGAO STATE FED. AND FISCAL SHEET TOTAL OPST. NO. PROL NO. YEAR NO. SHEETS **3** 27 3 | MC SEC ASUR TWP RGE

NOTES:

Design Scecifications: A.A.SMTC. 1377 and Interiors

Design Unit Stresses:

Close Bl Concrete

F6 = 4000000

Reinforcing Steel (Grade GC) - fy = GC,000 ps.

Joint Filler: All joint filler shall meet the requirement of Std. Spec. 1057.2.4 except as moted.

Reinforcing Steel: Minimum, clearance to reinforcing steel Shall be 18" unless otherwise Shavn.

Traffic: Traffic over structure to be maintained during construction.

Cuttine of old work is indicated by light dashed lines. Heavy lines indicate new work. unes. Heavy lines indicate new work.
Ears bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available old tars shall extend into new concrete at least 40 discountry. dismeters for smooth cars and 30 diameters for deformed bars.

Toper rondway surfacing of cridge ends to match 12" + bridge everlay. (Roasway Item)

Construction Cleoronce: Aminimum vertical cleoronce of 18'-6' from crown of existing lones and a minimum lateral cleoronce of 82'-0' normal to & 11th street centered on existing lones shall be maintained during construction.

REPAIRS TO

BRIDGE : LANE C & LANE D OVER HTH STREET

STATE ROAD; MIDTOWN FREEWAY

IN KANSAS CITY

JACKSON

PROJECT NO. I-IR-70-1(101) STA. 27 +63.85 (LANE C)

STD.

JOB NO. 4-1070-450

RTE. I-70

Sheet No. 1 x d 10

SYD. 706.35 COUNTY A-243R DATE 6/29/84

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PROJ. NO.	SHEE NO.
MO.	EF I-TO- 0.20'	109
SEC./	SUR. E TWP. 49N RGE.	33#

GENERAL NOTES:

EXISTING WORK:

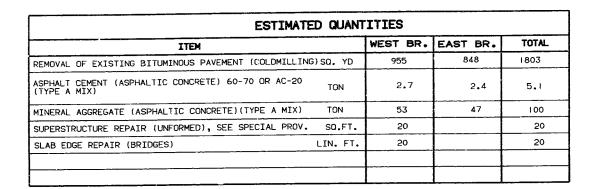
OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES. HEAVY LINES INDICATE NEW WORK.

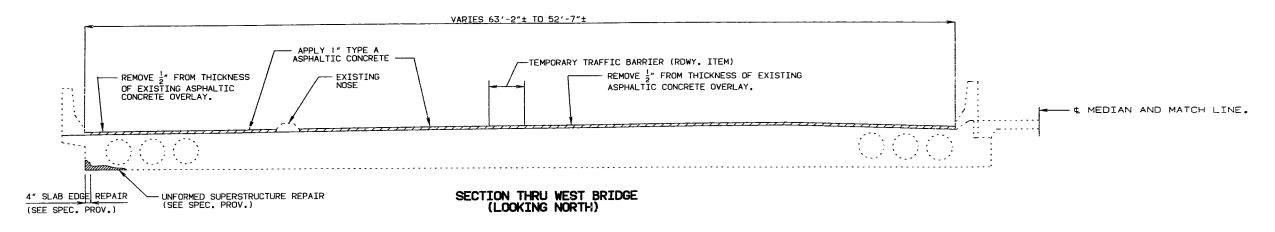
TRAFFIC MAINTAINED:
THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC EACH DIRECTION DURING CONSTRUCTION. (SEE ROAD PLANS)

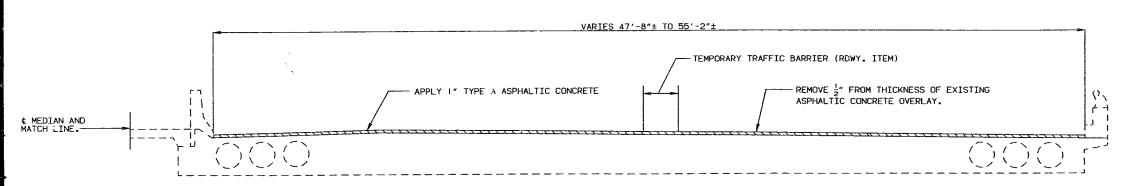
ROADWAY SURFACING ADJACENT TO BRIDGE ENDS SHALL BE ADJUSTED TO MATCH BRIDGE OVERLAY. (ROADWAY ITEM)

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE TO AVOID DAMAGE TO THE EXISTING CATHODIC PROTECTION SYSTEM IN PLACE ON THE DECK.

IN ORDER TO MAINTAIN GRADE AND A MINIMUM THICKNESS OF OVERLAY AS SHOWN ON PLANS IT MAY BE NECESSARY TO USE ADDITIONAL QUANTITIES OF OVERLAY AT VARIOUS LOCATIONS THROUGHOUT THE STRUCTURE, NO PAYMENT WILL BE ALLOWED FOR ADDITIONAL LABOR, MATERIALS OR EQUIPMENT FOR VARIATIONS IN THICKNESS OF OVERLAY.







SECTION THRU EAST BRIDGE

REPAIRS TO BRIDGE: LANE C & D OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

STA. 29+37.58 (BL LANE D) 26+87.51 (BL LANE C) PROJECT NO. FA.I-70-1(160)

JOB NO. J4I0991

JACKSON

RTE. I-70 COUNTY

STD. STD. A-243R2

(LOOKING NORTH)

SEE : NAL FLANS

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. 1 OF 1.

CHECKED JUNE 1992

DETAILED GEG. 1991

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSIC

-	STATE		PROJ. NO.		PROU. NO. 8.		SHEET NO.
ı	MO.	F.A.	I	70-10	160)	109
	SEC./	SUR.	5	TWP.	49N	POE,	33%

GENERAL NOTES:

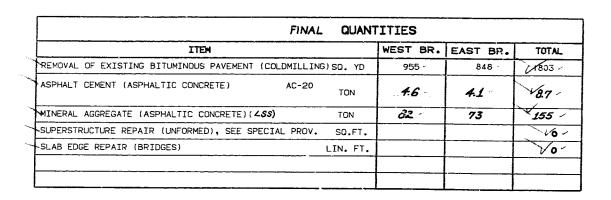
EXISTING WORK:
OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES. HEAVY LINES
INDICATE NEW WORK.

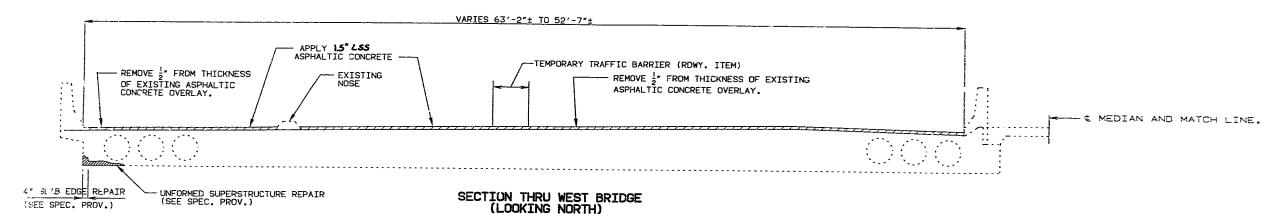
TRAFFIC MAINTAINED:
THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC EACH DIRECTION,
DURING CONSTRUCTION. (SEE ROAD PLANS)

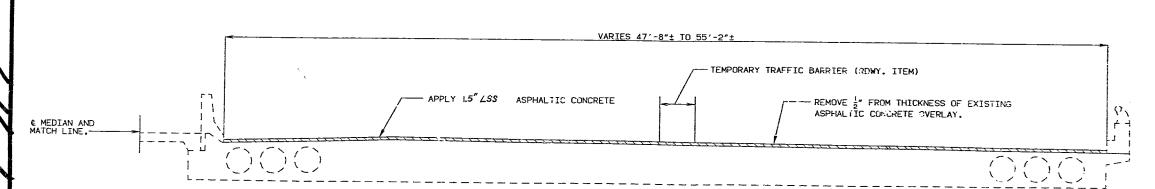
ROADWAY SURFACING ADJACENT TO BPIDGE ENDS SHALL BE ADJUSTED TO MATCH BRIDGE OVERLAY. (ROADWAY ITEM)

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE TO AVOID DAMAGE TO THE EXISTING CATHODIC PROTECTION SYSTEM IN PLACE ON THE DECK.

IN ORDER TO MAINTAIN GRADE AND A MINIMUM THICKNESS OF OVERLAY AS SHOWN ON PLANS IT MAY BE NECESSARY TO USE ADDITIONAL QUANTITIES OF OVERLAY VARIOUS LOCATIONS THROUGHOUT THE STRUCTURE, NO PAYMENT WILL BE ALLOWED FOR ACCO







SECTION THRU EAST BRIDGE

REPAIRS TO BRIDGE: LANE C & D OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO. FAI-70-1(160)

STA. 29+37.58 (BL LANE D) 26÷87.51 (BL LANE C) RTE. I-70

STD.

JOB NO. J410991 **JACKSON**

COUNTY

STD. A-243R2

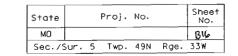
(LCOKING NORTH)

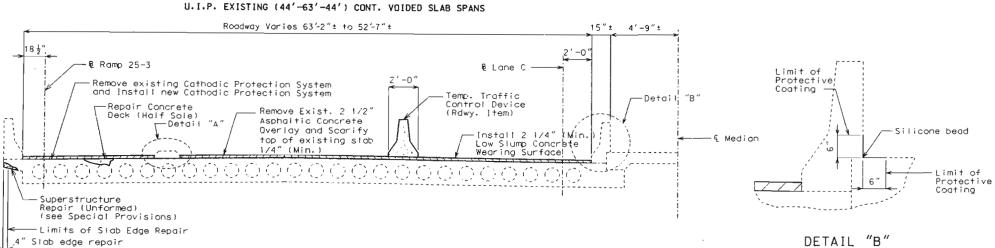
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

SHEET NO. IA OF 1.

DETAILED DEC. 1991 CHECKED JUNE 1992

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION





DETAIL "B"

Existing Transverse

-Superstructure Repair (Unformed)

(see Special Provisions)

Steel

GENERAL NOTES:

DESIGN SPECIFICATIONS:

AASHTO-1996 and Interims thru 2002.

TRAFFIC HANDLING:

Maintain traffic on structure during construction (see Rdwy. Plans.

MISCELLANEOUS:

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work

Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (Rdwy. Item).

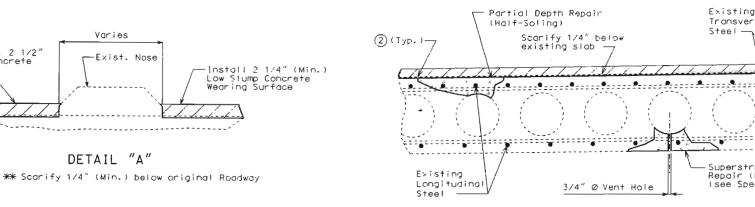
Contractor shall verify all dimensions and stations in field before ordering new material.

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

SPECIAL REPAIR ZONES:

Any repair in the remainder of the bridge that is within 3'-0" of Zone A shall be completed before removing old concrete in Zone A.

Zones with the same letter designation may be repaired at the same time. Sequence of repairs follows Zone A. Zone B then Zone C.



HALF SOLE REPAIR

SUPERSTRUCTURE REPAIR (UNFORMED) @ VENT HOLE

- Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface.
- Saw cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.)

Br. No. A02435-Sta. 27+63.86 & Lane C Sta. 3+86.91 & 11th St. 8'-0" i8'-0' 8'-0"18'-0" & Lane D-& Lane C-€ Median Beg. Sta. 26+87.51± Sto. 28+40.51: (C) (C) © Fill Face of Fill Face of End Bent No. 4 End Bent No. ⊭ € Int. Bent No. 3 € Int. Bent\No. 2 -Sta. 4+54.60 & Ramp 25-3 — € Ramp 25-3 Sta. 3+34.10 € 11th St. € 11th St.

Varies

DETAIL "A"

-Fxist. Nose

SECTION THRU SLAB (LOOKING NORTH)

CURVE DATA & Romp 25-3 Pl Sto. 2+97.37 $D = 3^{\circ}00'00''$ $\triangle = 17^{\circ}42'00'' (Rt.)$ R = 1909.86'T = 297.37'L = 590.00'

ESTIMATED QUANTITIES TOTAL Removal of Cathodic Protection System lump sum Asphalt Removal (Bridges) sq. foot 8608 Protective Coating lump sum sq. foot Repairing Concrete Deck (Half-Soling) 1200 Slab Edge Repair (Bridges) linear foot 80 Superstructure Repair (Unformed) sq. foot 280 Low Slump Concrete Wearing Surface sq. yard 956 Cathodic Protection System lump sum

REPAIRS TO BRIDGE: LANE C OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

Note: Provide 3/4" Ø vent hole to void

at existing vent location.

PROJECT NO.

JOB. NO. J411403

STA. 26+87.51 ± (& Lane C) (Match Exist.

RTE. I-70 (E.B.L.)

M. SMITH NUMBER

JACKSON

COUNTY

A02434

9-6-02

Date: 9 / 6 / 02

Designed Nov. 2001 PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES Checked June 2002

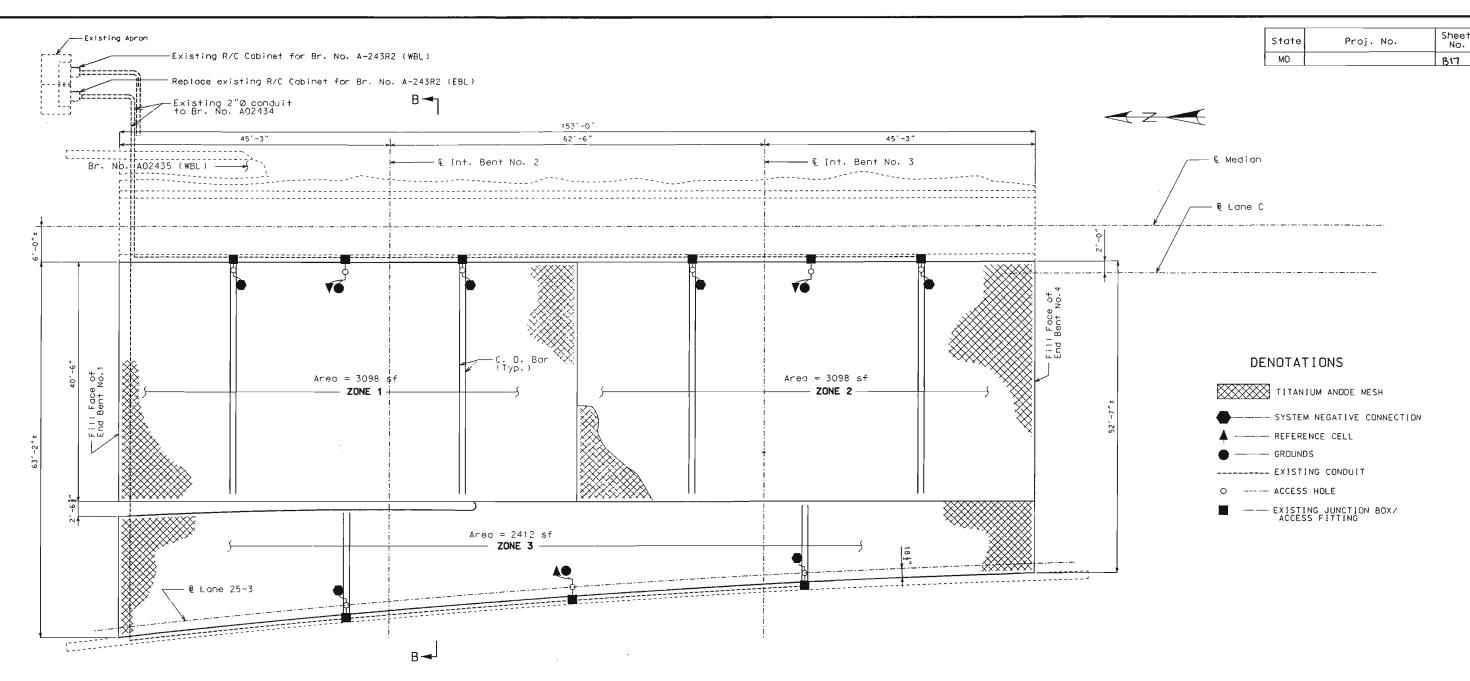
(see spec. prov.)

Remove Exist. 2 1/2"

Asphaltic Concrete

Over Lay

Sheet No. 1 of 5



PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

ITEM	UNIT	QUANTITY
Titanium Anode Mesh (Elgard 210)	Sq. Feet	8608
Reference Celis	Each	3
Thermite Welds	Each	9
ote: No direct payment shall be made unction boxes, access fittings additional odification to existing conquest	tor/any additi	onal condui

NOTE:

For Section B-B, typical zone layout and partial electrical schematic, see sheet no. 3.

Reference cells are to be placed at approximate $\mbox{\tt f}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

NOTE:

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing wiring in the deck and conduits shall be removed and replaced with new wiring.

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within 12" of the reference cell.

Anode assembly number must match zone number.

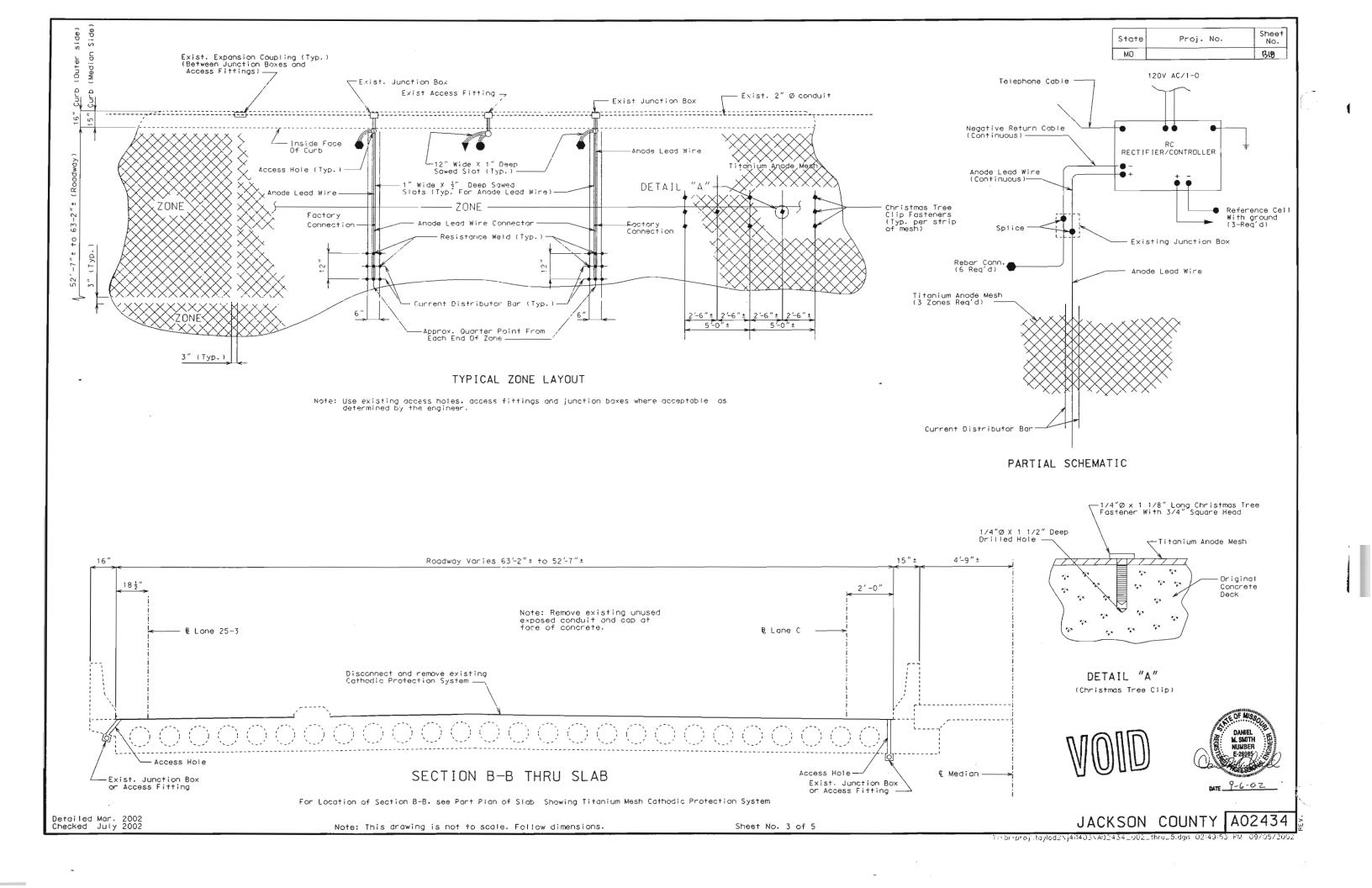
Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

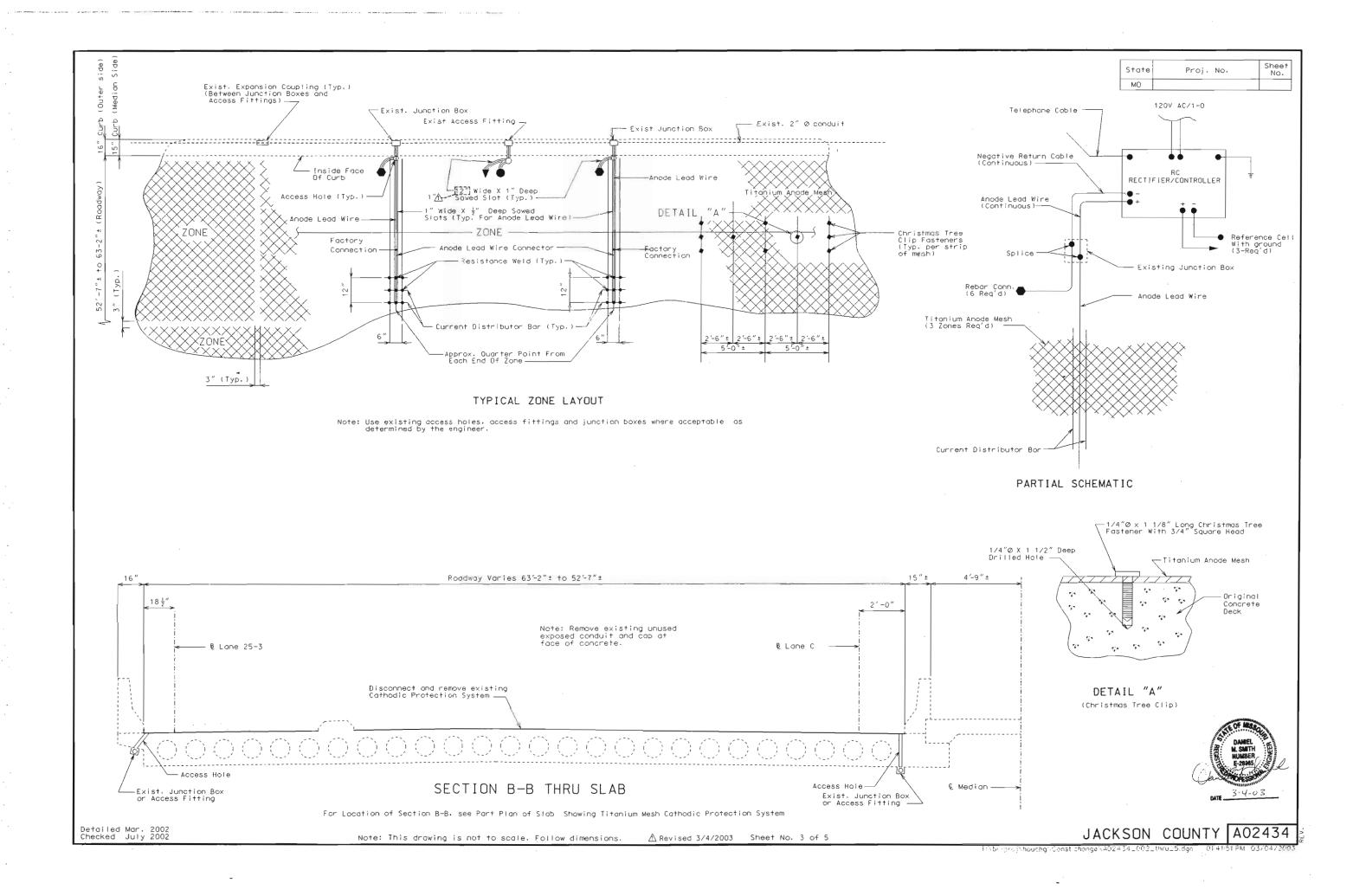


Detailed Mar. 2002 Checked July 2002

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 5

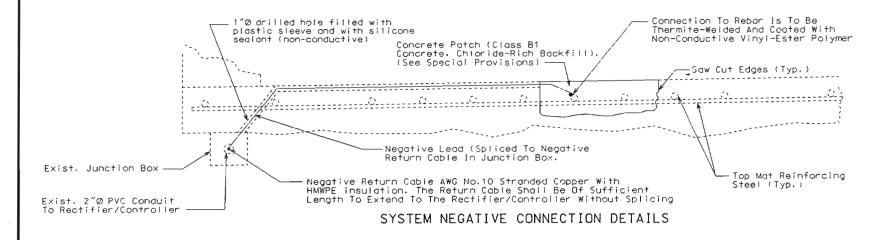


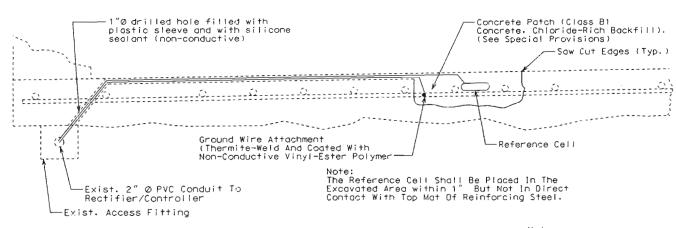


Sheet No. State Proj. No. MO 1319

1" Wide X 1/2" Deep Slot (Typ.)
(See Special Provisions) Two Current Distributor Bors Attach To Anode Lead Wire At "Ø drilled hole filled with plastic sleeve and with silicone sealant (non-conductive) The Approximate & Of Zone Width Scarified Surface (Typ. For Exist. Deck)
Roughened Surface (Typ. For New Deck) 4'-0" Titanium Anode Mesh--(See Special Provisions) -July 1 - Land - Anode Lead Wire (Attached To Current Distributor Bars At Approx. € Of Zone Width And To Continuous Anode Lead Wire In Junction Box) Exist. Junction Box - Anode Lead Wire AWG No.10 Stranded Copper With HMWPE Insulation. The Lead Wire Shall Be Sufficient Length To Extend To The Rectifier/Controller Without Splicing Exist. 2"Ø PVC Conduit To Rectifier/Controller Resistance Weld Mesh To Current Distributor Bars At Every Strand Junction

TITANIUM ANODE MESH DETAILS





REFERENCE CELL DETAILS

All concrete removal shall be intiated by saw cutting the first 1/2".

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyviny! Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II. type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

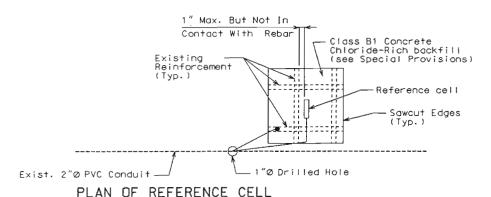
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the

All junction boxes shall be PVC molded, surface mounted, size $8'' \times 8'' \times 7''$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or seperable.

The terminations and covers shall be of watertight construction.



Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'-0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

Ground wire shall be AGW No.6 minimum (Use existing if

approved by the engineer).

Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

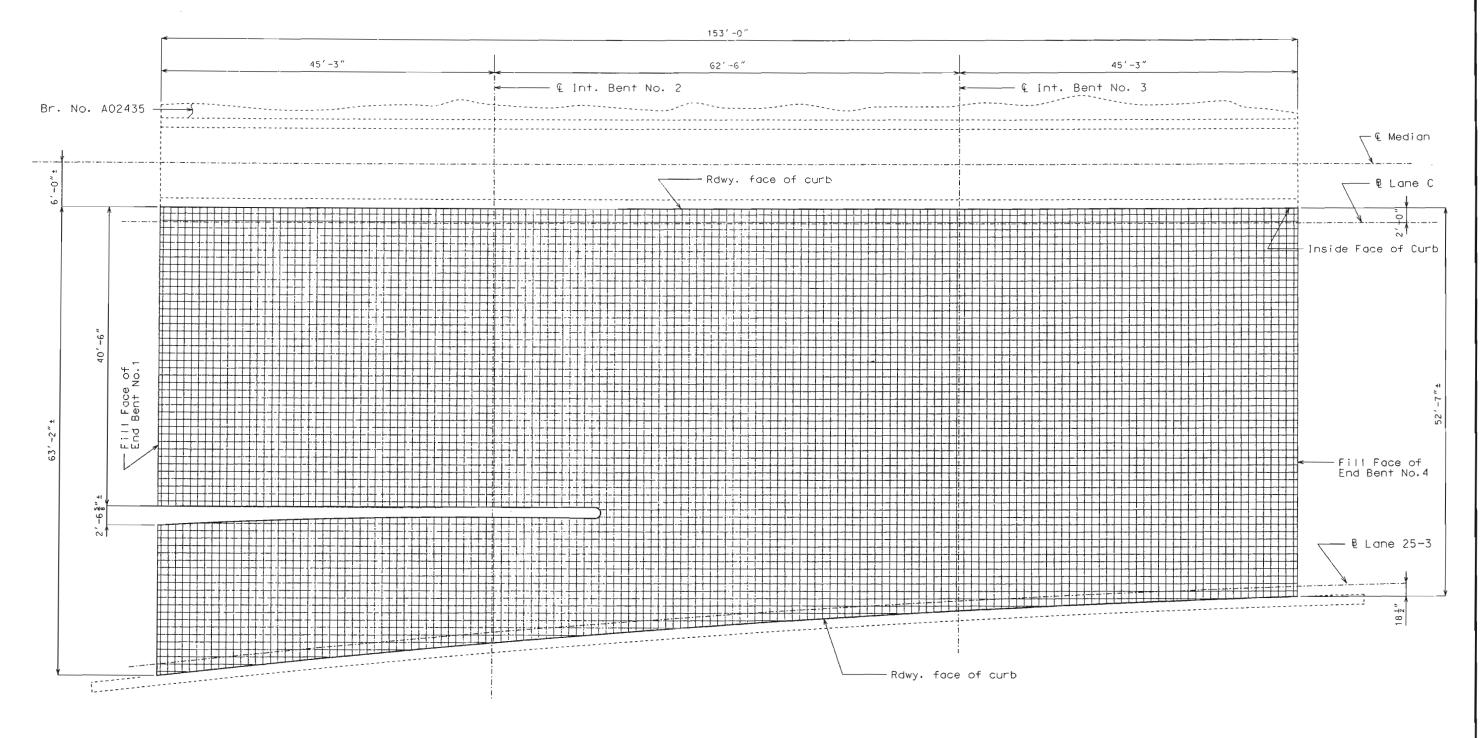


Detailed Mar. 2002 Checked June 2002

A02434 JACKSON COUNTY

 $\langle Z \langle Z \rangle \rangle$

State Proj. No. Sheet No. MO G20



Note: Grid = Approx. 12" Squares

PLAN OF CONCRETE DECK SHOWING GRID

(For location of deck repair and reference cells.)

Note: This sheet is to be completed by MoDOT construction personnel.

I-70 LANE C OVER 11th ST.



Detailed Mar. 2002 Checked June 2002

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION U.I.P. EXISTING (44'-63'-44') CONT. VOIDED SLAB SPANS Roadway Varies 63'-2" ± +o 52'-7" ± 15"± 4′-9″± - B Ramp 25-3 & Lane C -Limit of Protective, Remove existing Cathodic Protection System and Install new Cathodic Protection System Temp. Traffic Control Device -Detail Repair Concrete Remove Exist. 2 1/2" Deck (Half Sole) Asphaltic Concrete - Detail Overlay and Scarify Install 2 1/4" (Min.) -Silicone bead top of existing slab © Median Low Slump Concrete Wearing Surface \ 1/4" (Min.) Limit of Protective -Superstructure Repair (Unformed) (see Special Provisions) -Limits of Slab Edge Repair DETAIL "B" 4" Slab edge repair (see spec. prov.) SECTION THRU SLAB (LOOKING NORTH) Existing Partial Depth Repair (Half-Soling) Transverse Varies Steel Scarify 1/4" below (2) (Typ.)-Remove Exist. 2 1/2" -Exist. Nose Asphaltic Concrete Overlay Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface g DETAIL "A" Superstructure Repair (Unformed) Existing ** Scarify 1/4" (Min.) below original Roadway Longitudinal (see Special Provisions) 3/4" Ø Vent Hole Note: Provide 3/4" Ø vent hole to void at existing vent location. HALF SOLE REPAIR SUPERSTRUCTURE REPAIR (UNFORMED) @ VENT HOLE Br. No. A02435-Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface. Sta. 27+63.86 & Lane C Sta.3+86.91 & 11th St. Saw cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.) 8'-0" !8'-0" 8'-0" 8'-0" & Lane D-₽ Lane C-© Median Beg. Sta. 26+87.51± Sta. 28+40.51± (C) (C) **©** CURVE DATA & Ramp 25-3 PI Sta. 2+97.37 Fill Face of Fill Face of End Bent No. 4 $D = 3^{\circ}00'00''$ End Bent No. $\triangle = 17^{\circ}42'00'' (R+.)$ R = 1909.86'← © Int. Bent No. 3 E Int. Bent No. 2 T = 297.37'-S+a. 4+54.60 ₱ Ramp 25-3 - B Ramp 25-3 Sta. 3+34.10 & 11th St. L = 590.00'£ 11th St.

Designed Nov. 2001 PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

Detailed Nov. 2001 Checked June 2002

71

Sheet No. State Proi. No. I-70-1(175) MO Sec./Sur. 5 Twp. 49N Rge. 33W CONTRACT ID 021213-402

GENERAL NOTES:

FINAL PLANS

DESIGN SPECIFICATIONS:

AASHTO-1996 and Interims thru 2002.

TRAFFIC HANDLING:

Maintain traffic on structure during construction (see Rdwy. Plans.

MISCELLANEOUS:

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work

Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (Rdwy. Item).

Contractor shall verify all dimensions and stations in field before ordering new material.

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

SPECIAL REPAIR ZONES:

Any repair in the remainder of the bridge that is within $3^\prime\text{-}0^\prime\prime$ of Zone A shall be completed before removing old concrete in Zone A.

Zones with the same letter designation may be repaired at the same time. Sequence of repairs follows Zone A, Zone B

> FINAL PLANS I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CENTIFY THAT HIS PLAN SHEEL ACCURATELY DEPICTS HE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFICED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DIBLAY. CONSTRUCTION, AND LOCATED AND RECOVERED LY DURING ITS CONSTRUCTION: AND I DISCLAIM RESPONSIBILITY
> FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT.
>
> EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE DATE

ITEM		TOTAL
Removal of Cathodic Protection System	lump sum	V 1
Asphalt Removal (Bridges)	sq. foot	8608
Protective Coating	lump sum	· 1
Repairing Concrete Deck (Half-Soling)	sq. foot	516
Slab Edge Repair (Bridges)	linear foot	0
Superstructure Repair (Unformed)	sq. foot	0
Low Slump Concrete Wearing Surface	sq. yard	956
Cathodic Protection System	lump sum	1

REPAIRS TO BRIDGE: LANE C OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO.

Sheet No. 1 of 5

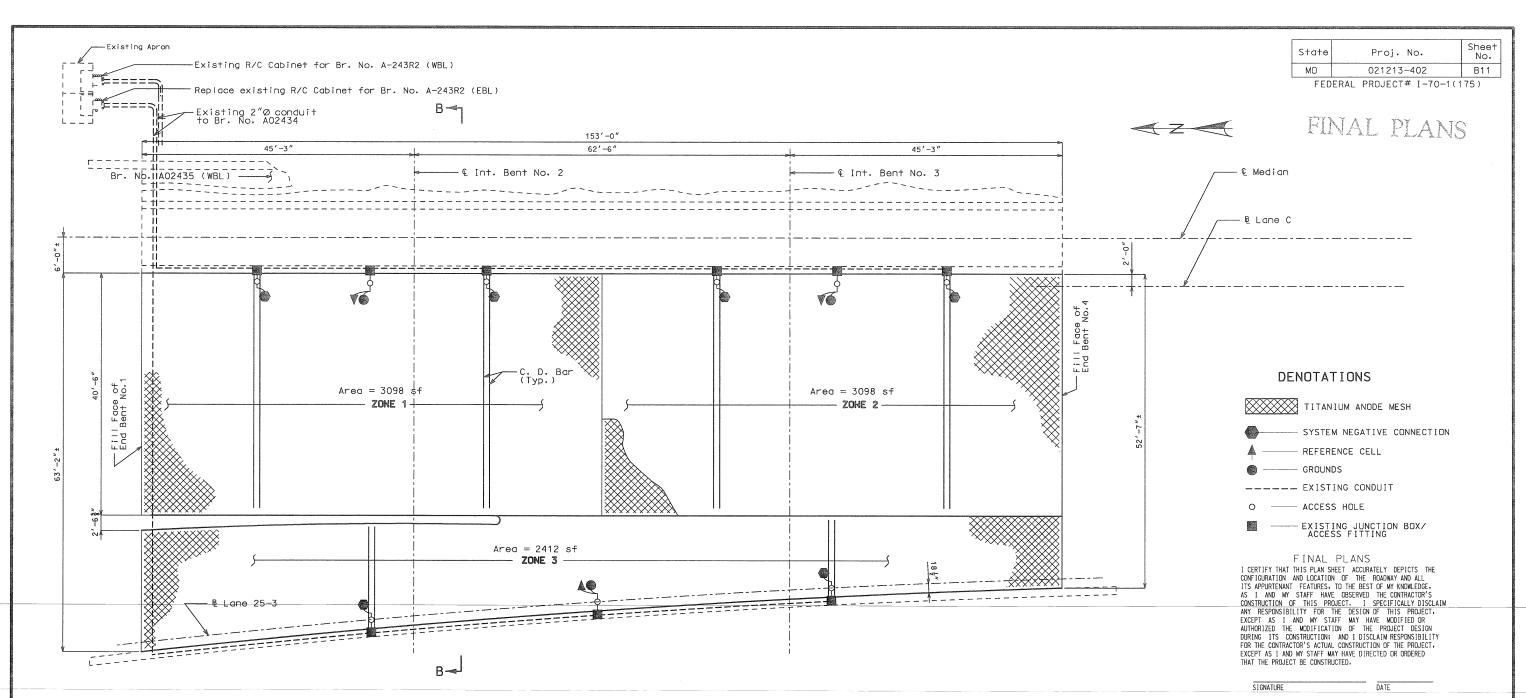
STA. 26+87.51 ± (& Lane C) (Match Exist.)

JOB. NO. J4I1403

RTE. I-70 (E.B.L.)

COUNTY

A02434



PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

ion
ANTITY
3608
3
9

Note: No direct payment shall be made for any additional conduit, junction boxes, access fittings, additional material, labor and modification to existing conduit.

NOTE:

For Section B-B, typical zone layout and partial electrical schematic, see sheet no. 3.

Reference cells are to be placed at approximate $\mbox{\ensuremath{\mathfrak{C}}}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

NOTE

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing $% \left(1\right) =\left(1\right) +\left(1\right$

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

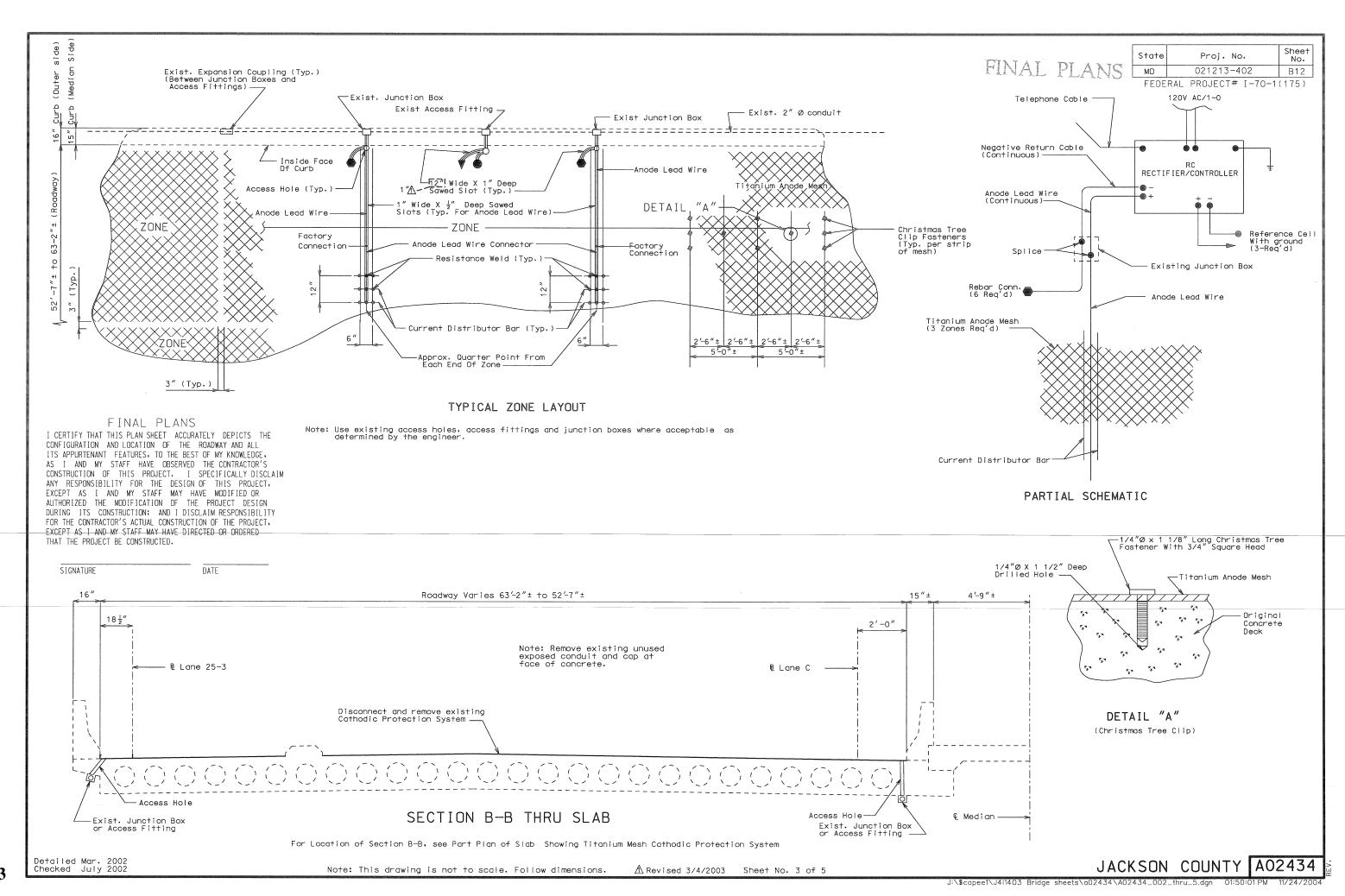
The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within 12 $\!\!^{\prime\prime}$ of the reference cell.

Anode assembly number must match zone number.

Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

Detailed Mar. 2002 Checked July 2002



 State
 Proj. No.
 Sheet No.

 MO
 021213-402
 B13

FEDERAL PROJECT# I-70-1(175)

FINAL PLANS

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II, type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

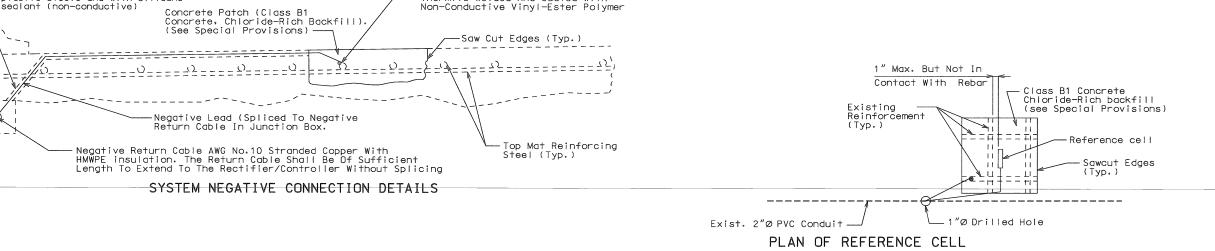
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

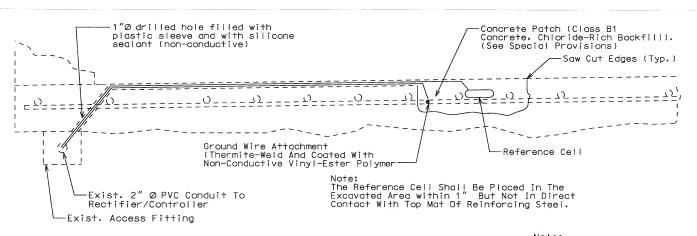
Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the engineer.

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or seperable.

The terminations and covers shall be of watertight construction.





Anode Lead Wire (Attached To Current Distributor Bars At Approx. $\$ Of Zone Width And To Continuous Anode Lead Wire In Junction Box)

TITANIUM ANODE MESH DETAILS

1" Wide X 1/2" Deep Slot (Typ.)
(See Special Provisions)

Anode Lead Wire AWG No. 10 Stranded Copper

With HMWPE Insulation. The Lead Wire Shall Be Sufficient Length To Extend To The Rectifier/Controller Without Splicing

"Ø drilled hole filled with

1"Ø drilled hole filled with plastic sleeve and with silicone

plastic sleeve and with silicone sealant (non-conductive)

4'-0" Titanium Anode Mesh

Two Current Distributor Bars

Attach To Anode Lead Wire At The Approximate & Of Zone Width

Scarified Surface (Typ. For Exist. Deck)
Roughened Surface (Typ. For New Deck)
(See Special Provisions)

Resistance Weld Mesh To Current Distributor Bars At Every Strand Junction

> Connection To Rebar Is To Be Thermite-Welded And Coated With

REFERENCE CELL DETAILS

All concrete removal shall be intiated by saw cutting the first 1/2".

Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'-0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE

DATE

JACKSON COUNTY A02434

Exist. Junction Box

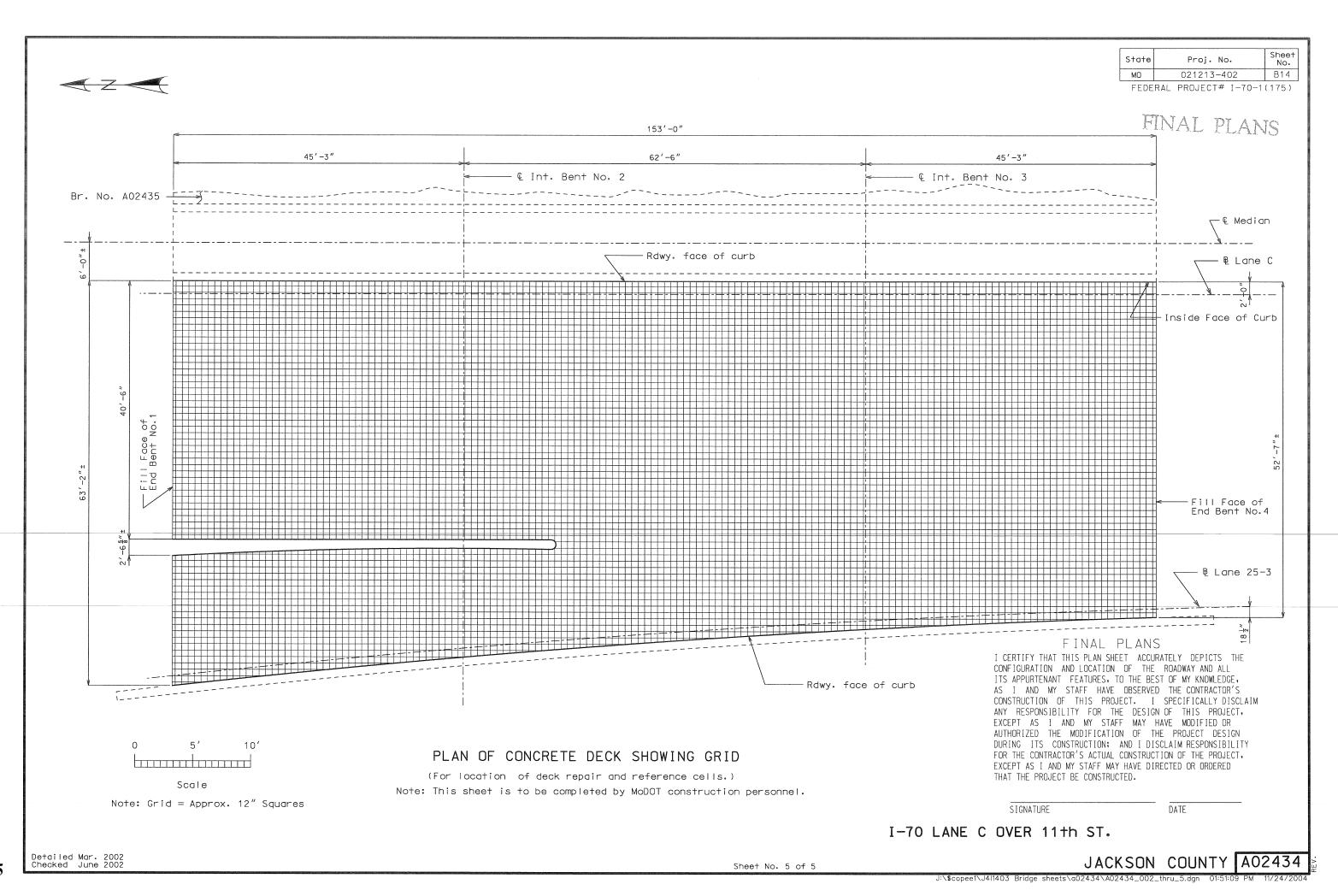
Exist. 2"Ø PVC Conduit

Exist. Junction Box

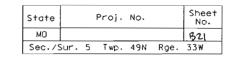
Exist. 2"Ø PVC Conduit

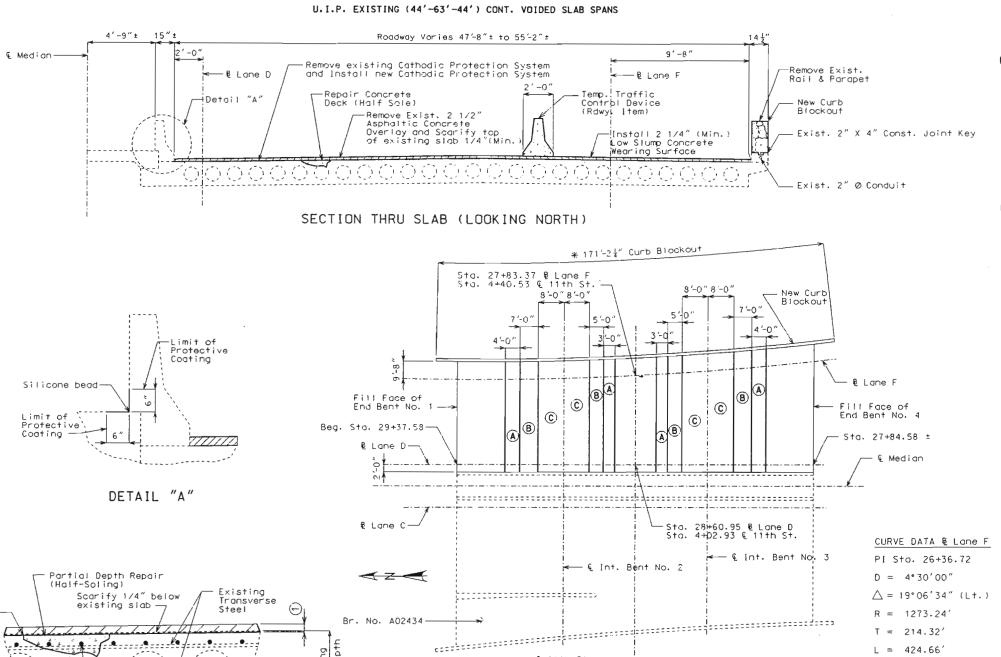
To Rectifier/Controller

To Rectifier/Controller



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION





(2) (Typ.)-• - - -(#35**2**2222225 Existing

Longitudinal Steel —— HALF SOLE REPAIR

- Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface.
- Saw cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.)

PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

€ 11th St.-

* Horizontal arc dimension along the top of outside edge of existing Curb.

ITEM		TOTAL
Removal of Cathodic Protection System	tump sum	1
Parapet Removal (Bridges)	linear foot	171
Asphalt Removal (Bridges)	sq. foot	7644
Protective Coating	lump sum	. 1
Curb Blockout	linear foot	171
Repairing Concrete Deck (Half-Soling)	sq. foot	150
Low Slump Concrete Wearing Surface	sq. yard	849
Cathodic Protection System	lump sum	1

GENERAL NOTES:

DESIGN SPECIFICATIONS:

AASHID-1996 and Interims thru 2002

DESIGN UNIT STRESSES:

Reinforcing Steel (Grade 60) fy = 60.000 psi Class B1 Concrete (Curb Blockout and End posts) f'c = 4000 psi TRAFFIC HANDLING:

Maintain two lanes of traffic on structure during construction (see Rdwy, Plans.)

REINFORCING STEEL:

Minimum clearance to reinforcing steel shall be $1\frac{1}{2}\text{``,}$ unless otherwise shown.

Bors bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

JOINT FILLER:

All joint filler shall meet the requirements of Section 1057.2.4. of the Missouri Standard Specifications, except as noted.

CURB BLOCKOUTS:

Cost of Concrete and Reinforcement in End Posts shall be considered completely covered in the contract unit price for Curb Blockout per linear foot.

Cost of any concrete curb removal and/or repair shall be considered completely covered in the contract unit price for Curb Blockout per linear foot.

Cost of removing existing parapet and aluminum bridge rail shall be considered completely covered in the contract unit price for Parapet Removal (Bridges) per linear foot.

MISCELLANEOUS:

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work

Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (Rdwy, Item).

Contractor shall verify all dimensions and stations in field before ordering new material.

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

SPECIAL REPAIR ZONES:

Any repair in the remainder of the bridge that is within 3'-0" of Zone A shall be completed before removing old concrete in Zone A.

Zones with the same letter designation may be repaired at the same time. Sequence of repairs follows Zone A. Zone B

REPAIRS TO BRIDGE: LANE D OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

JACKSON

IN KANSAS CITY

T = 214.32'

L = 424.66

PROJECT NO. JOB. NO. J4I1403

STA. 29+37.58 ± (& Lane D) (Match Exist.

RTE. I-70 (W.B.L.)

COUNTY

Date: 9/6/02

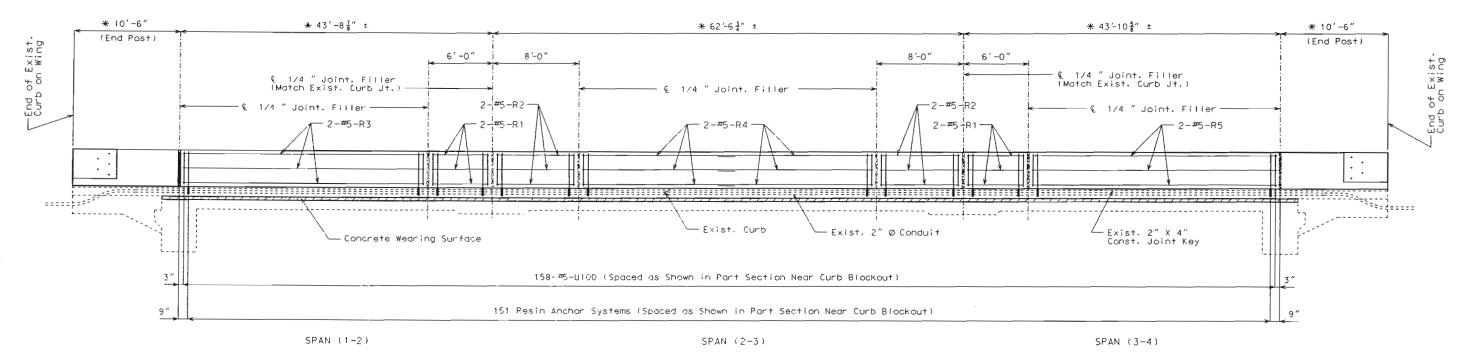
9-6-02 STD. 706.35

M. SMITH NUMBER

Designed Nov. 2001 Detailed Nov. 2001 Nov. 2001 June 2002 Checked

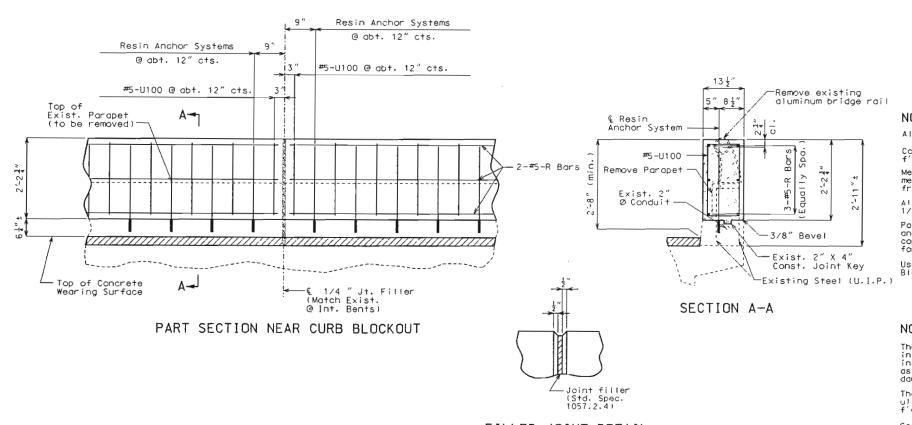
Sheet No. 1 of 8

State Proj. No. Sheet No. MO 822



SECTION NEAR CURB BLOCKOUT

st Horizontal arc dimension along the top of outside edge of existing Curb.



FILLED JOINT DETAIL

DETAILS OF CURB BLOCKOUT

NOTES FOR CURB BLOCKOUT:

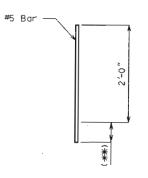
All reinforcement shall be epoxy coated.

Concrete in curb blockout shall be Class B1 with f'c = 4.000 psi

Measurement of curb blockout is to the nearest linear foot measured along the top of outside edge of existing curb from end of wing to end of wing.

Payment for concrete, reinforcing steel, resin anchor systems and any other work incidental to the curb blockout and end posts. complete in place, shall be included in the contract unit price for Curb Blockout per lin. foot.

Use a minimum lap of 2'-11" for #5 horizontal Curb Blockout bars.



(Install in Curb)

NOTE: (* *) Manufacturer's embedment length. (6" Max.)

DETAIL OF RESIN ANCHORS

NOTES FOR RESIN ANCHOR SYSTEM:

The contractor shall use one of the resin anchor systems listed in the job special provisions. These resin anchor systems shall be installed according to the manufacturer's specifications, except as modified by the job special provisions. Contractor shall avoid damage to any exist. conduit in curb.

The 5/8" diameter resin anchor systems shall have a minimum ultimate pullout strength of 15,500 lbs. in concrete with f'c = 4,000 psi (See Special Provisions).

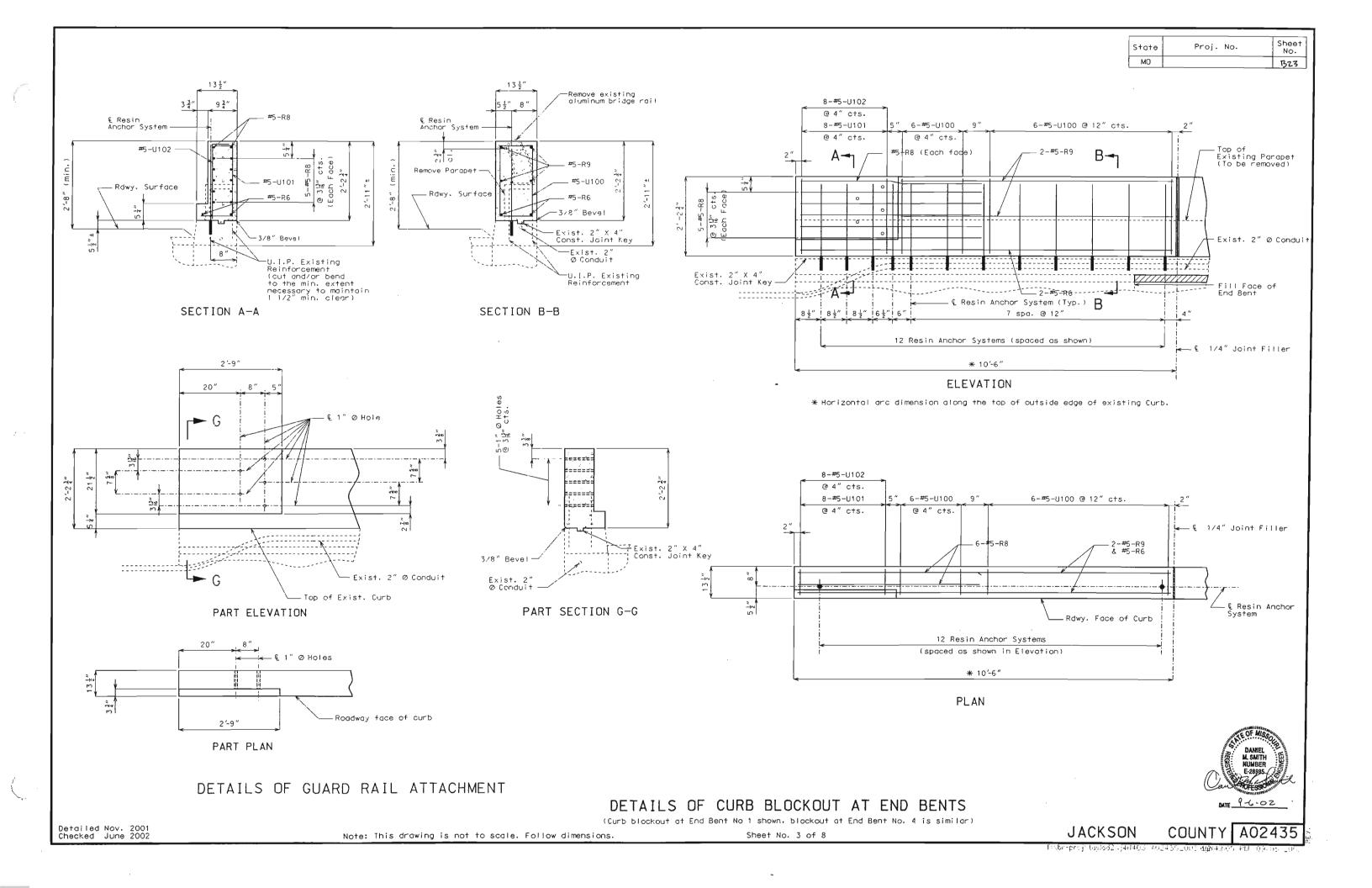
Cost of furnishing and installing the anchor system complete in place shall be included in the price bid for Curb Blockout.

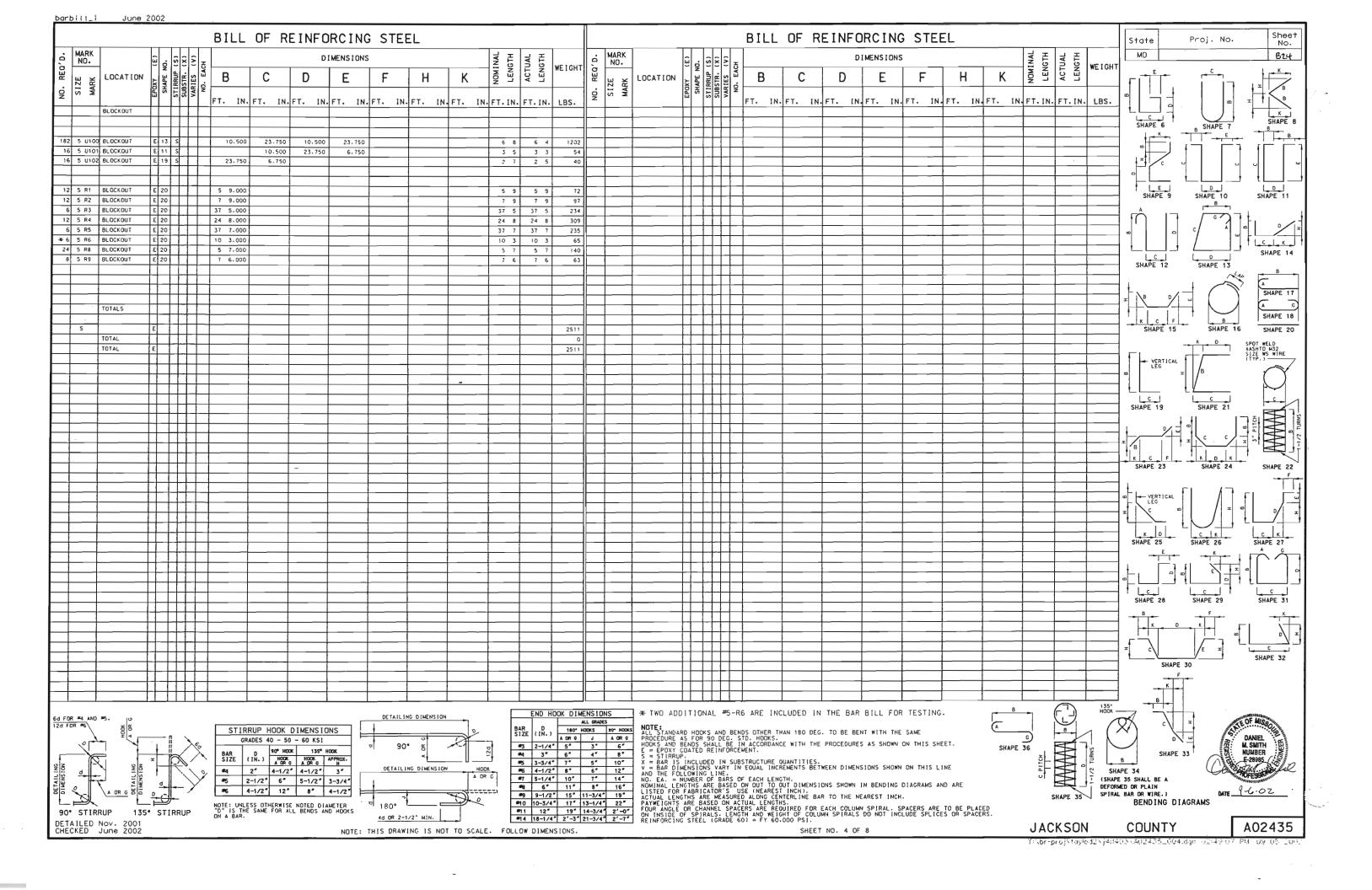
An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8 $^{\prime\prime}\mathrm{O}$ threaded rod stud.

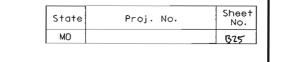


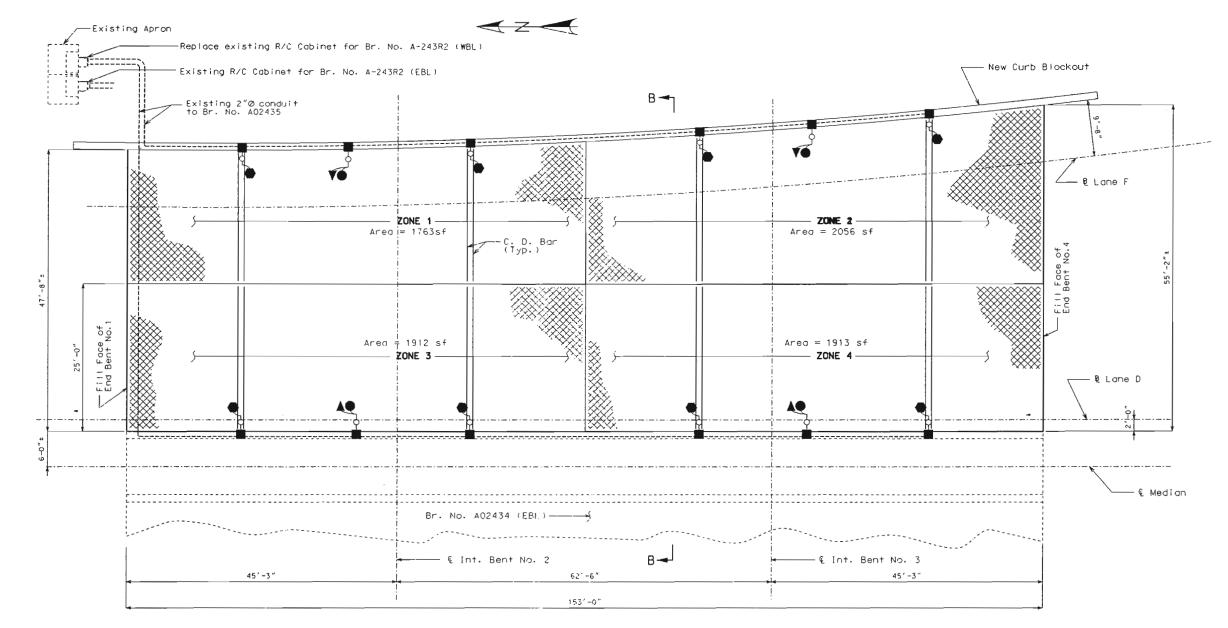
DATE 12020

JACKSON









DENOTATIONS

TITANIUM ANODE MESH

---- SYSTEM NEGATIVE CONNECTION

---- REFERENCE CELL

----- GROUNDS

O ---- ACCESS HOLE

--- ACCESS HULE

----- EXISTING CONDUIT

---- EXISTING JUNCTION BOX/

PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

ESTIMATED QUANTITIES	For info	ormation
ITEM	UNIT	QUANTITY
Titanium Anode Mesh (Elgard 210)	Sq. Feet	7644
Reference Cells	Each	4
Thermite Welds	Each	12
<u> </u>		
· · · · · · · · · · · · · · · · · · ·		

Note: No direct payment shall be made for any additional conduitjunction boxes, access fittings, additional material, labor and modification to existing conduit.

NOTE:

For Section B-B, typical zone layout and partial electrical schematic, see sheet no. 6.

Reference cells are to be placed at approximate $\ensuremath{\mathfrak{C}}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

OTE:

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing wiring in the deck and conduits shall be removed and replaced with new wiring. $\,$

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within $12\,^{\prime\prime}$ of the reference cell.

Anode assembly number must match zone number.

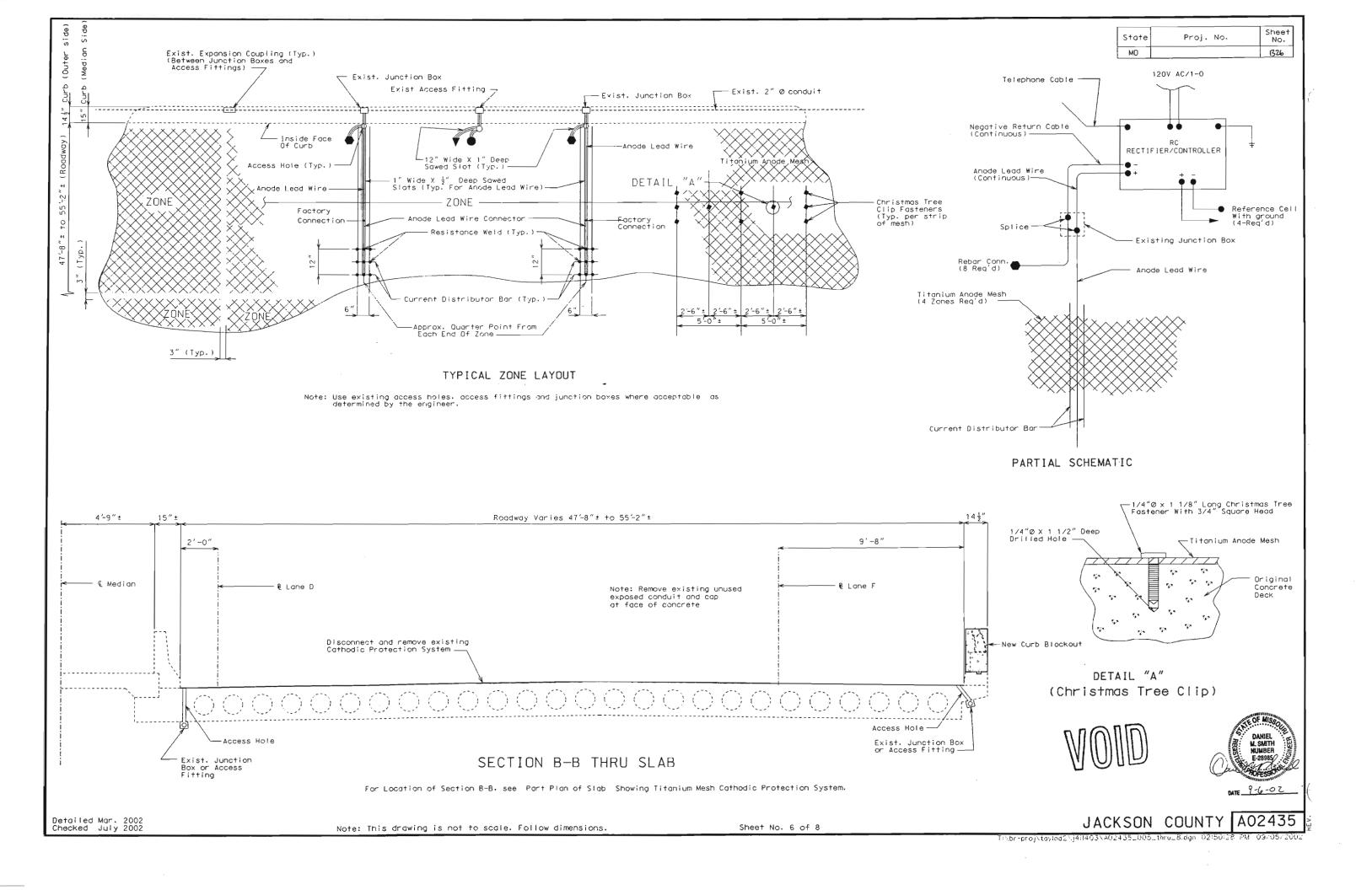
Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

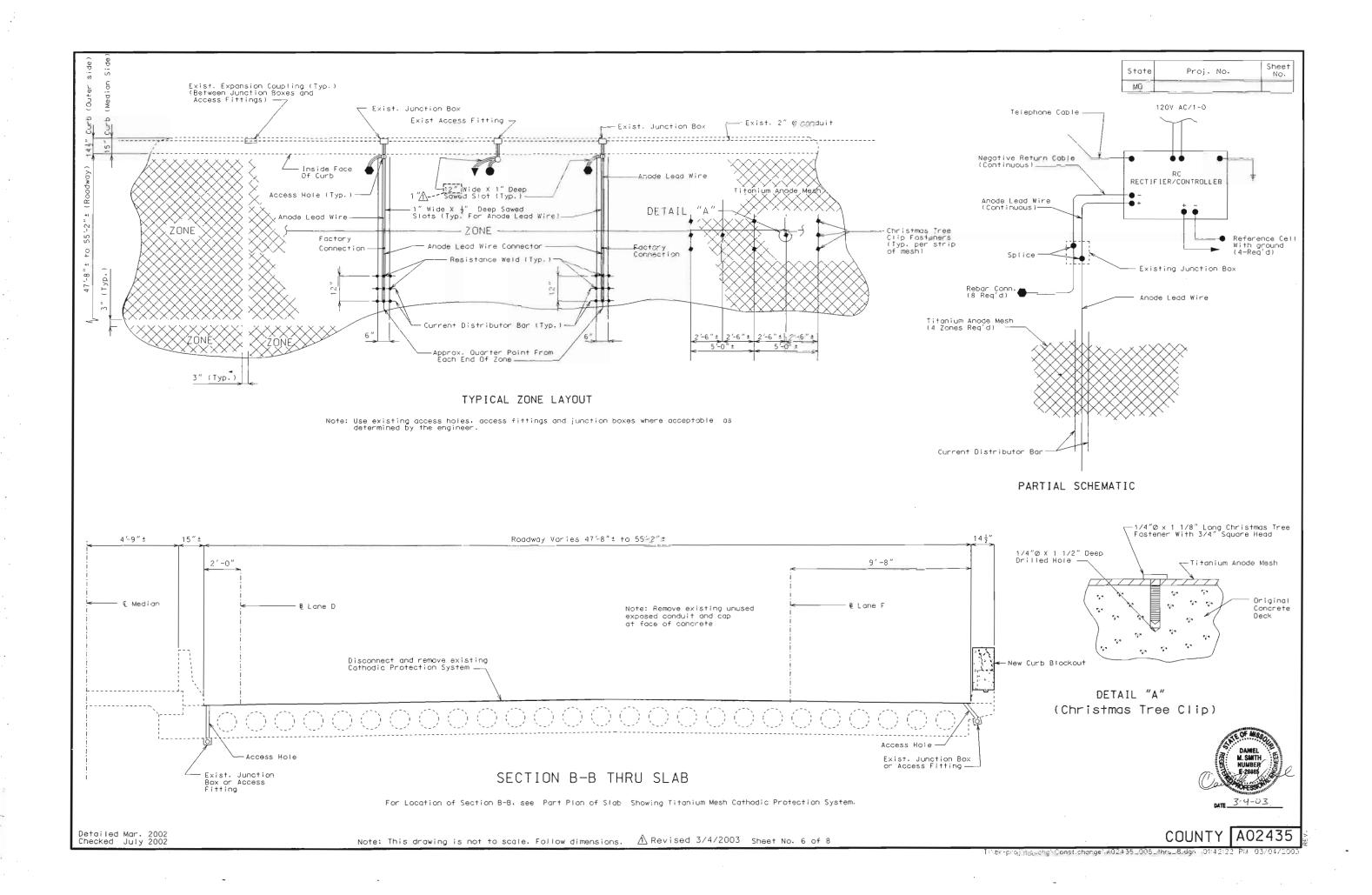


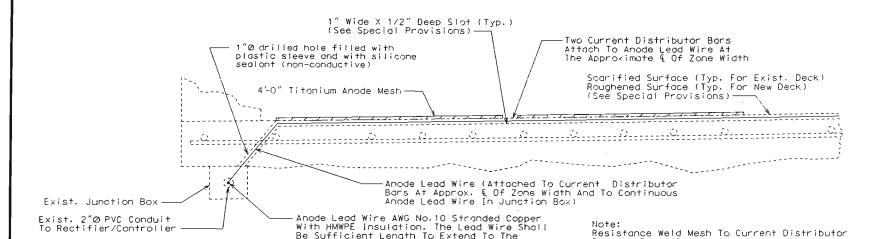
Detailed Mar. 2002 Checked July 2002

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 8



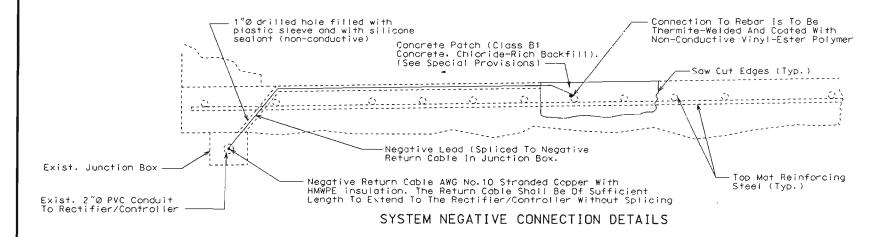


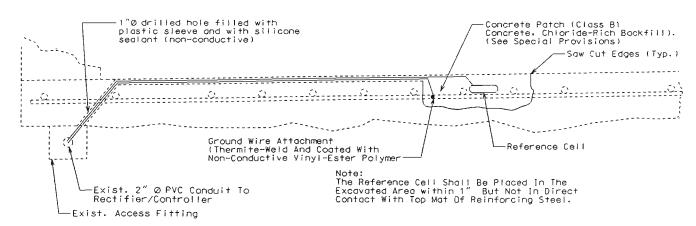


Rectifier/Controller Without Splicing

TITANIUM ANODE MESH DETAILS

Resistance Weld Mesh To Current Distributor Bars At Every Strand Junction





REFERENCE CELL DETAILS

Note: All concrete removal shall be intiated by saw cutting the first 1/2".

Sheet State Proj. No. No. MO 1327

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II. type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

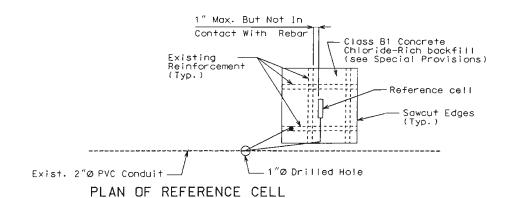
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer

The location and direction of conduit may be shifted to meet field conditions as directed by the engineer.

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or seperable.

The terminations and covers shall be of watertight construction.



Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'-0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

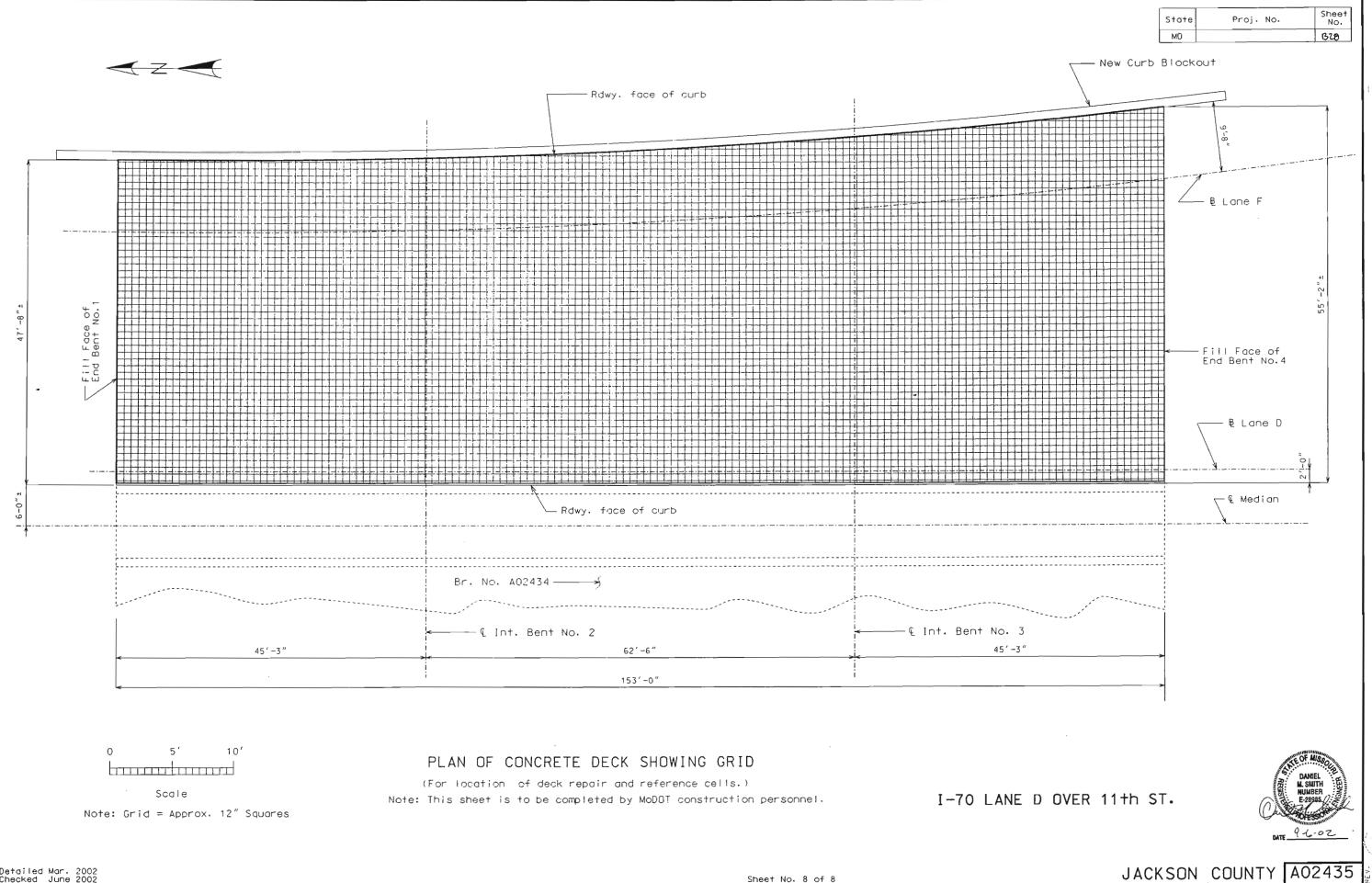
Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the

responsibility of the contractor and cabinet manufacturer.



Detailed Mar. 2002 Checked June 2002

A02435 JACKSON COUNTY



MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION U.I.P. EXISTING (44'-63'-44') CONT. VOIDED SLAB SPANS Roadway Varies 63'-2" ± +o 52'-7" ± 15"± 4′-9″± - B Ramp 25-3 & Lane C -Limit of Protective, Remove existing Cathodic Protection System and Install new Cathodic Protection System Temp. Traffic Control Device -Detail Repair Concrete Remove Exist. 2 1/2" Deck (Half Sole) Asphaltic Concrete - Detail Overlay and Scarify Install 2 1/4" (Min.) -Silicone bead top of existing slab © Median Low Slump Concrete Wearing Surface \ 1/4" (Min.) Limit of Protective -Superstructure Repair (Unformed) (see Special Provisions) -Limits of Slab Edge Repair DETAIL "B" 4" Slab edge repair (see spec. prov.) SECTION THRU SLAB (LOOKING NORTH) Existing Partial Depth Repair (Half-Soling) Transverse Varies Steel Scarify 1/4" below (2) (Typ.)-Remove Exist. 2 1/2" -Exist. Nose Asphaltic Concrete Overlay Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface g DETAIL "A" Superstructure Repair (Unformed) Existing ** Scarify 1/4" (Min.) below original Roadway Longitudinal (see Special Provisions) 3/4" Ø Vent Hole Note: Provide 3/4" Ø vent hole to void at existing vent location. HALF SOLE REPAIR SUPERSTRUCTURE REPAIR (UNFORMED) @ VENT HOLE Br. No. A02435-Install 2 1/4" (Min.) Low Slump Concrete Wearing Surface. Sta. 27+63.86 & Lane C Sta.3+86.91 & 11th St. Saw cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.) 8'-0" !8'-0" 8'-0" 8'-0" & Lane D-₽ Lane C-© Median Beg. Sta. 26+87.51± Sta. 28+40.51± (C) (C) **©** CURVE DATA & Ramp 25-3 PI Sta. 2+97.37 Fill Face of Fill Face of End Bent No. 4 $D = 3^{\circ}00'00''$ End Bent No. $\triangle = 17^{\circ}42'00'' (R+.)$ R = 1909.86'← © Int. Bent No. 3 E Int. Bent No. 2 T = 297.37'-S+a. 4+54.60 ₱ Ramp 25-3 - B Ramp 25-3 Sta. 3+34.10 & 11th St. L = 590.00'£ 11th St.

Designed Nov. 2001 PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

Detailed Nov. 2001 Checked June 2002

71

Sheet No. State Proi. No. I-70-1(175) MO Sec./Sur. 5 Twp. 49N Rge. 33W CONTRACT ID 021213-402

GENERAL NOTES:

FINAL PLANS

DESIGN SPECIFICATIONS:

AASHTO-1996 and Interims thru 2002.

TRAFFIC HANDLING:

Maintain traffic on structure during construction (see Rdwy. Plans.

MISCELLANEOUS:

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work

Roadway surfacing adjacent to bridge ends to match top of concrete wearing surface (Rdwy. Item).

Contractor shall verify all dimensions and stations in field before ordering new material.

In order to maintain grade and a minimum thickness of overlay as shown on plans it may be necessary to use additional quantities of overlay at various locations throughout the structure. No payment will be allowed for additional labor, materials or equipment for variations in thickness of overlay.

SPECIAL REPAIR ZONES:

Any repair in the remainder of the bridge that is within $3^\prime\text{-}0^\prime\prime$ of Zone A shall be completed before removing old concrete in Zone A.

Zones with the same letter designation may be repaired at the same time. Sequence of repairs follows Zone A, Zone B

> FINAL PLANS I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CENTIFY THAT THIS PLAN SHEEL ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFICED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DIBLAY. CONSTRUCTION, AND LOCATED AND REPORTED THE DURING ITS CONSTRUCTION: AND I DISCLAIM RESPONSIBILITY
> FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT.
>
> EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE DATE

ITEM		TOTAL
Removal of Cathodic Protection System	lump sum	V 1
Asphalt Removal (Bridges)	sq. foot	8608
Protective Coating	lump sum	· 1
Repairing Concrete Deck (Half-Soling)	sq. foot	516
Slab Edge Repair (Bridges)	linear foot	0
Superstructure Repair (Unformed)	sq. foot	0
Low Slump Concrete Wearing Surface	sq. yard	956
Cathodic Protection System	lump sum	1

REPAIRS TO BRIDGE: LANE C OVER 11TH STREET

STATE ROAD: MIDTOWN FREEWAY

IN KANSAS CITY

PROJECT NO.

Sheet No. 1 of 5

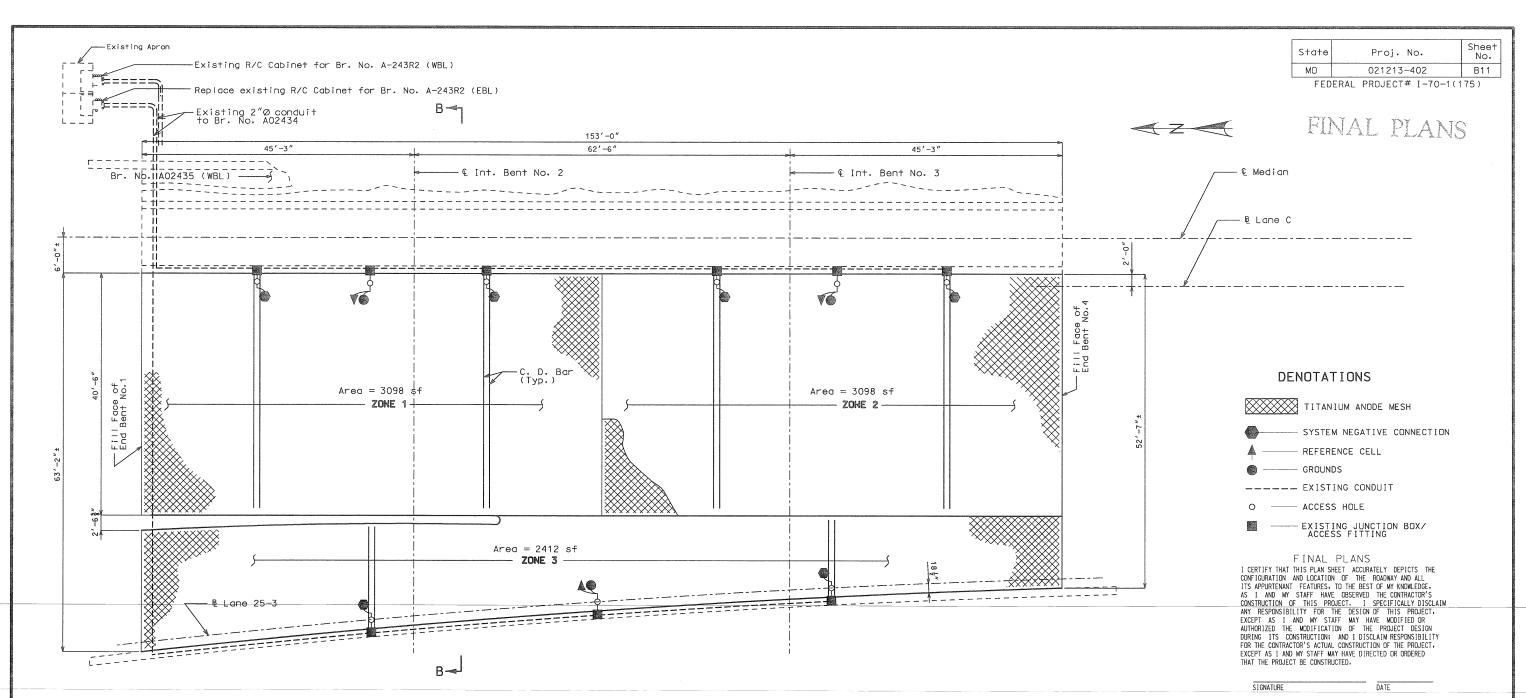
STA. 26+87.51 ± (& Lane C) (Match Exist.)

JOB. NO. J4I1403

RTE. I-70 (E.B.L.)

COUNTY

A02434



PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

ion
ANTITY
3608
3
9

Note: No direct payment shall be made for any additional conduit, junction boxes, access fittings, additional material, labor and modification to existing conduit.

NOTE:

For Section B-B, typical zone layout and partial electrical schematic, see sheet no. 3.

Reference cells are to be placed at approximate $\mbox{\ensuremath{\mathfrak{C}}}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

NOTE

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing $% \left(1\right) =\left(1\right) +\left(1\right$

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

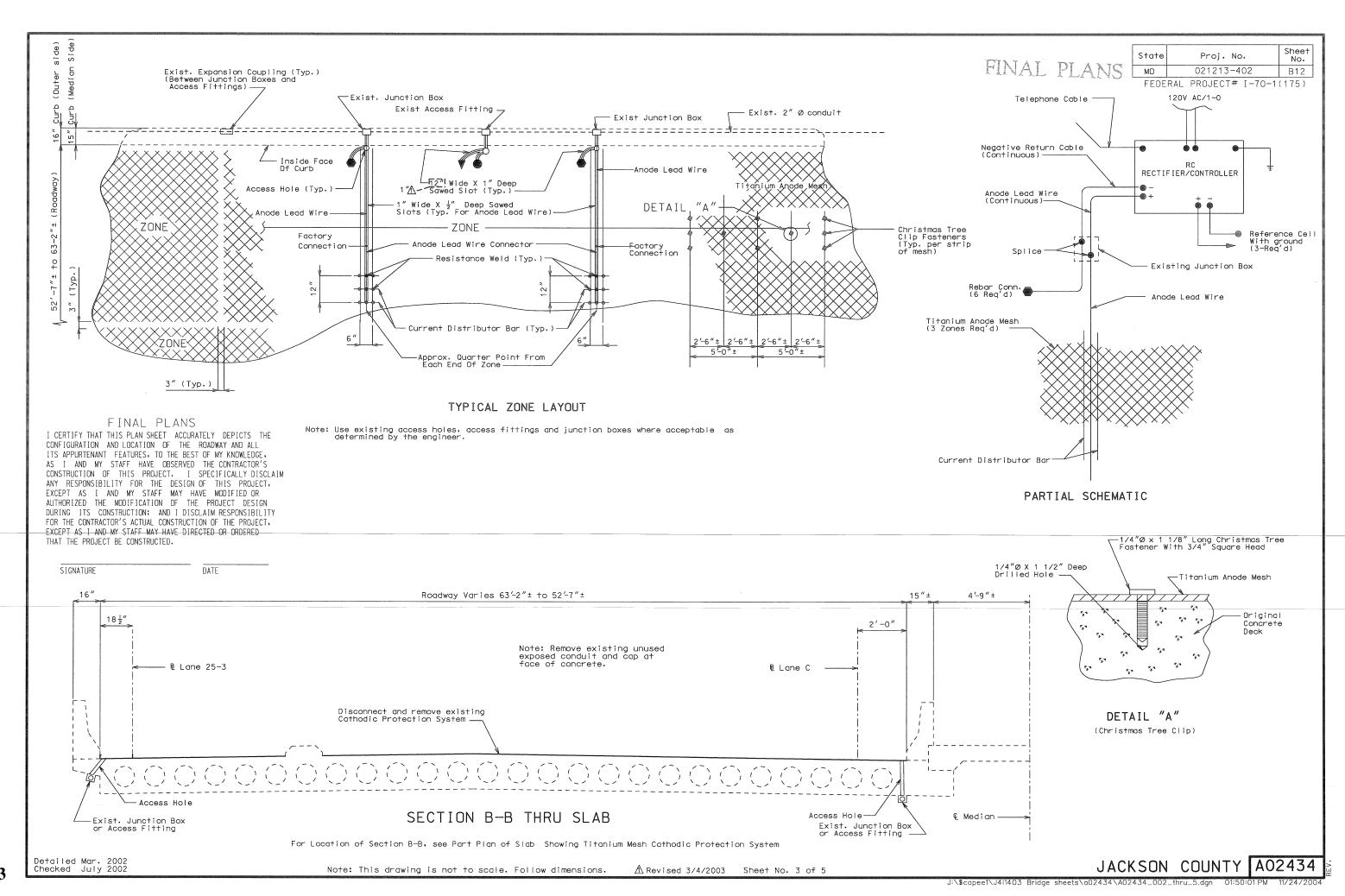
The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

The reference cell ground lead shall be welded to the top rebar within 12 $\!\!^{\prime\prime}$ of the reference cell.

Anode assembly number must match zone number.

Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

Detailed Mar. 2002 Checked July 2002



 State
 Proj. No.
 Sheet No.

 MO
 021213-402
 B13

FEDERAL PROJECT# I-70-1(175)

FINAL PLANS

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II, type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

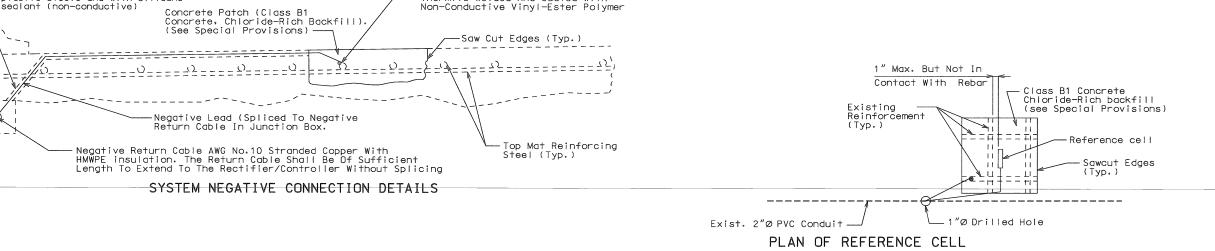
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

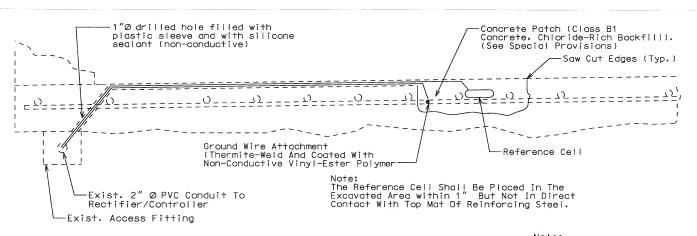
Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the engineer.

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or seperable.

The terminations and covers shall be of watertight construction.





Anode Lead Wire (Attached To Current Distributor Bars At Approx. $\$ Of Zone Width And To Continuous Anode Lead Wire In Junction Box)

TITANIUM ANODE MESH DETAILS

1" Wide X 1/2" Deep Slot (Typ.)
(See Special Provisions)

Anode Lead Wire AWG No. 10 Stranded Copper

With HMWPE Insulation. The Lead Wire Shall Be Sufficient Length To Extend To The Rectifier/Controller Without Splicing

"Ø drilled hole filled with

1"Ø drilled hole filled with plastic sleeve and with silicone

plastic sleeve and with silicone sealant (non-conductive)

4'-0" Titanium Anode Mesh

Two Current Distributor Bars

Attach To Anode Lead Wire At The Approximate & Of Zone Width

Scarified Surface (Typ. For Exist. Deck)
Roughened Surface (Typ. For New Deck)
(See Special Provisions)

Resistance Weld Mesh To Current Distributor Bars At Every Strand Junction

> Connection To Rebar Is To Be Thermite-Welded And Coated With

REFERENCE CELL DETAILS

All concrete removal shall be intiated by saw cutting the first 1/2".

Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'-0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

FINAL PLANS

I CERTIFY THAT THIS PLAN SHEET ACCURATELY DEPICTS THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT, EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE

DATE

JACKSON COUNTY A02434

Exist. Junction Box

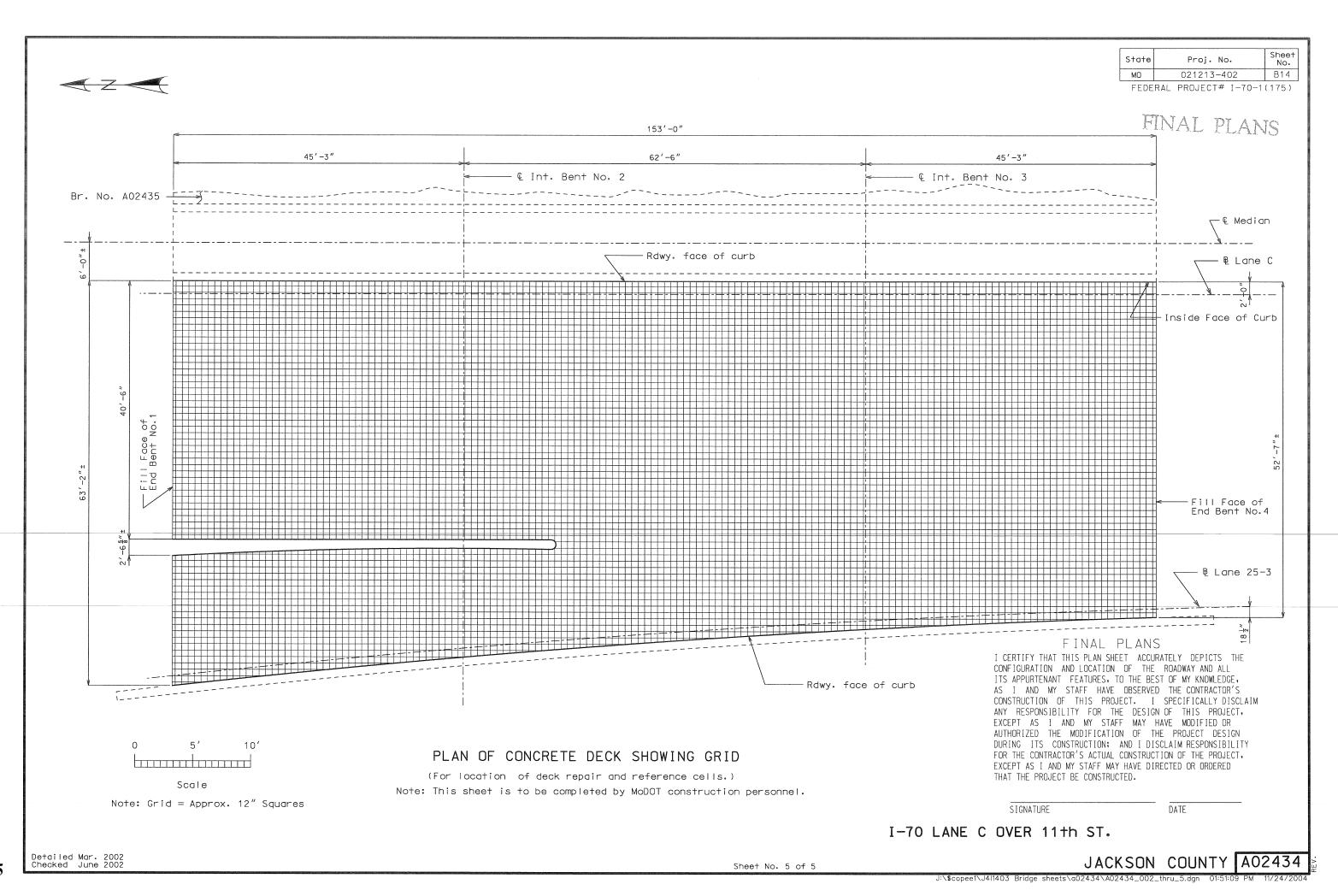
Exist. 2"Ø PVC Conduit

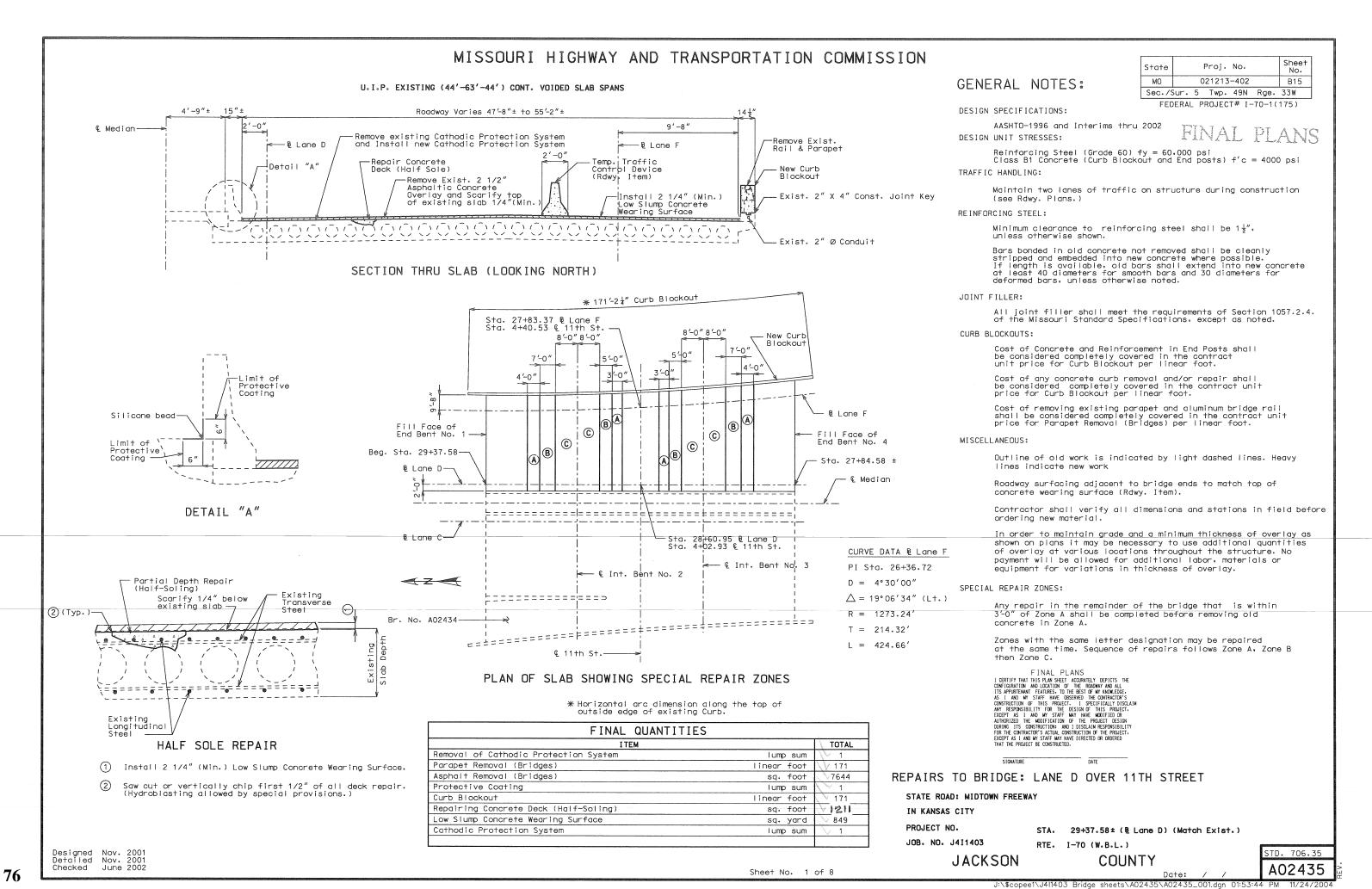
Exist. Junction Box

Exist. 2"Ø PVC Conduit

To Rectifier/Controller

To Rectifier/Controller

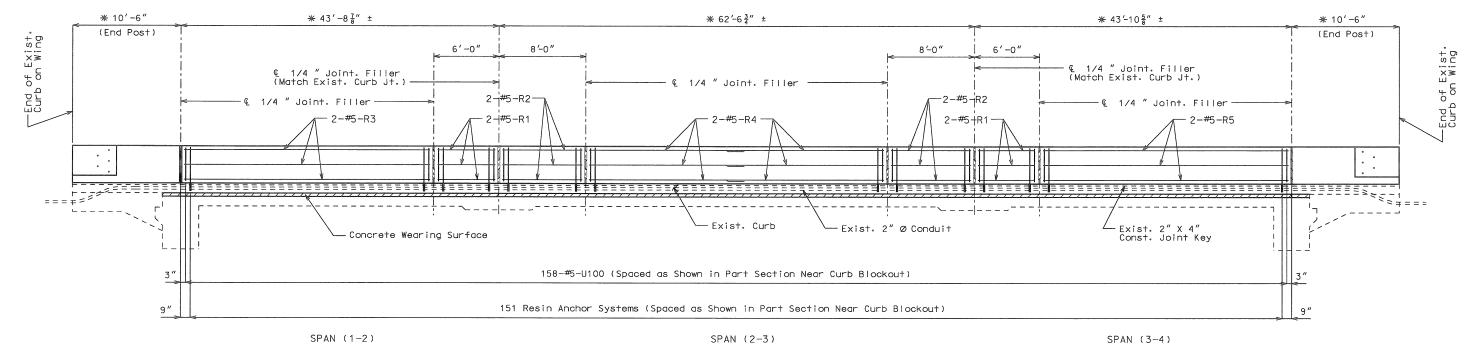




FINAL PLANS

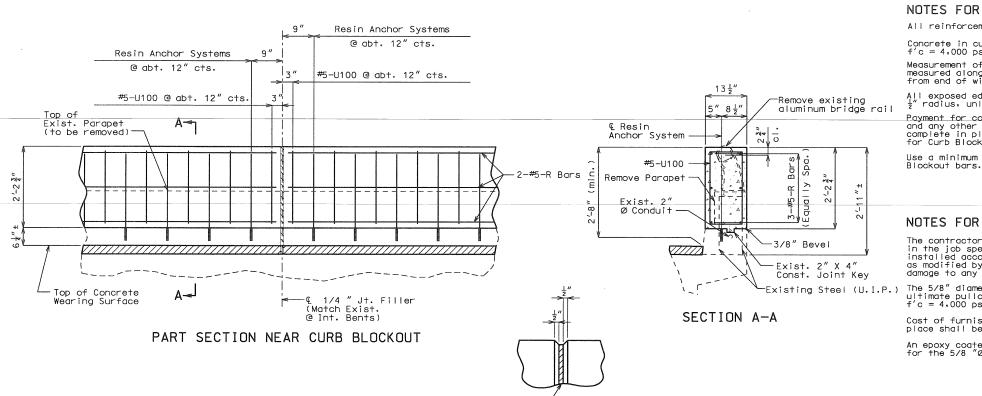
Sheet State Proj. No. No. MO 021213-402 B16

FEDERAL PROJECT# I-70-1(175)



SECTION NEAR CURB BLOCKOUT

* Horizontal arc dimension along the top of outside edge of existing Curb.



NOTES FOR CURB BLOCKOUT:

All reinforcement shall be epoxy coated.

Concrete in curb blockout shall be Class B1 with f'c = 4.000 psi

Measurement of curb blockout is to the nearest linear foot measured along the top of outside edge of existing curb from end of wing to end of wing.

All exposed edges of curb blockout shall have a $\frac{1}{2}''$ radius, unless otherwise shown.

Payment for concrete, reinforcing steel, resin anchor systems and any other work incidental to the curb blockout and end posts, complete in place, shall be included in the contract unit price for Curb Blockout per lin. foot.

Use a minimum lap of 2'-11" for #5 horizontal Curb



#5 Bar

NOTE: (* *) Manufacturer's embedment length. (6" ${\sf Max.}$)

DETAIL OF RESIN ANCHORS

NOTES FOR RESIN ANCHOR SYSTEM:

The contractor shall use one of the resin anchor systems listed in the job special provisions. These resin anchor systems shall be installed according to the manufacturer's specifications, except as modified by the job special provisions. Contractor shall avoid damage to any exist. conduit in curb.

The 5/8" diameter resin anchor systems shall have a minimum ultimate pullout strength of 15.500 lbs. in concrete with $\rm f'c$ = 4.000 psi (See Special Provisions).

Cost of furnishing and installing the anchor system complete in place shall be included in the price bid for Curb Blockout.

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8 $^{\prime\prime}\text{O}$ threaded rod stud.

FINAL PLANS

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ITS APPURTENANT FEATURES, TO THE BEST OF MY KNOWLEDGE, AS I AND MY STAFF HAVE OBSERVED THE CONTRACTOR'S CONSTRUCTION OF THIS PROJECT. I SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR THE DESIGN OF THIS PROJECT. EXCEPT AS I AND MY STAFF MAY HAVE MODIFIED OR AUTHORIZED THE MODIFICATION OF THE PROJECT DESIGN DURING ITS CONSTRUCTION; AND I DISCLAIM RESPONSIBILITY FOR THE CONTRACTOR'S ACTUAL CONSTRUCTION OF THE PROJECT. EXCEPT AS I AND MY STAFF MAY HAVE DIRECTED OR ORDERED THAT THE PROJECT BE CONSTRUCTED.

SIGNATURE DATE

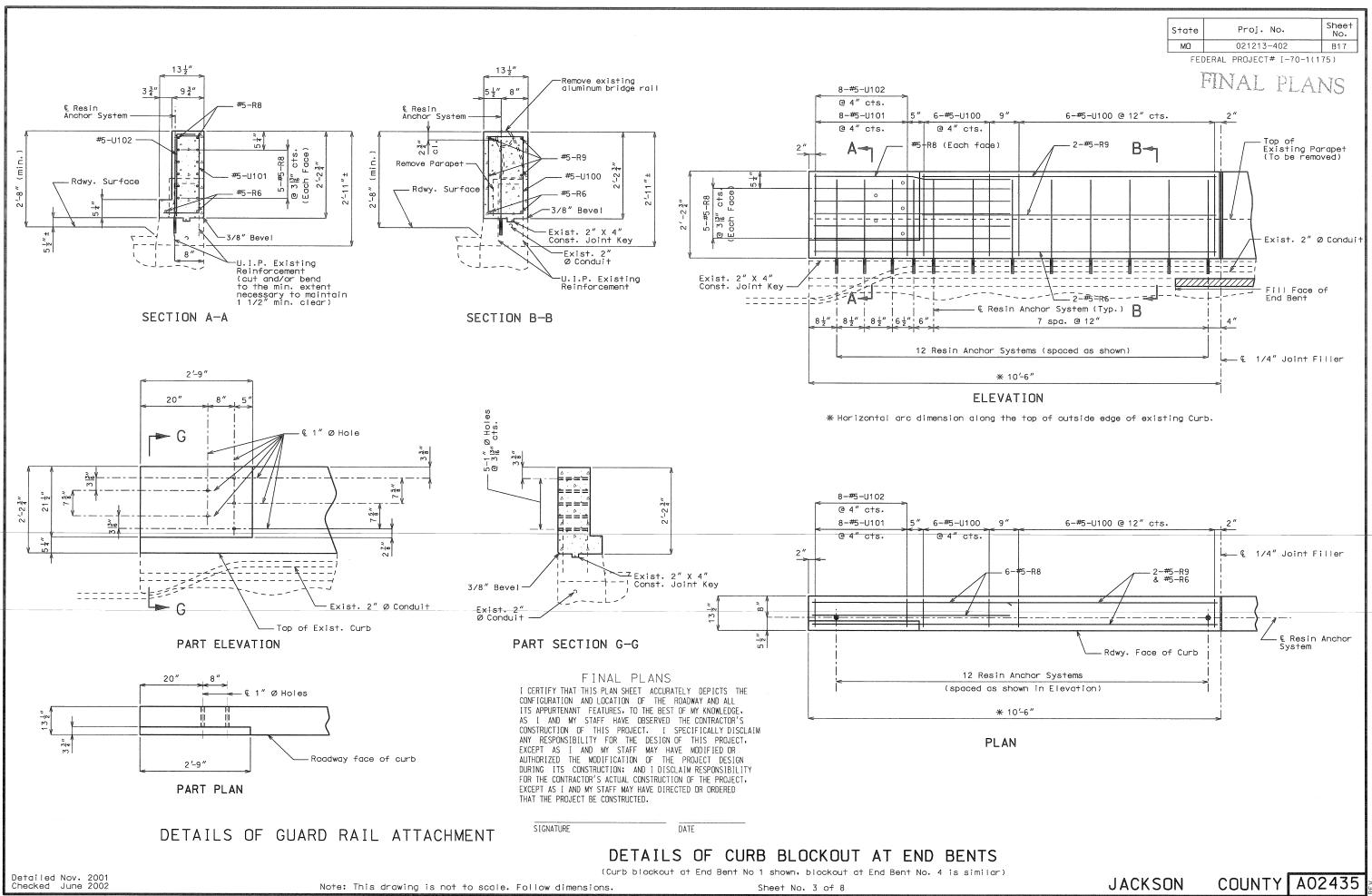
Detailed Nov. 2001 Checked June 2002 DETAILS OF CURB BLOCKOUT

JACKSON

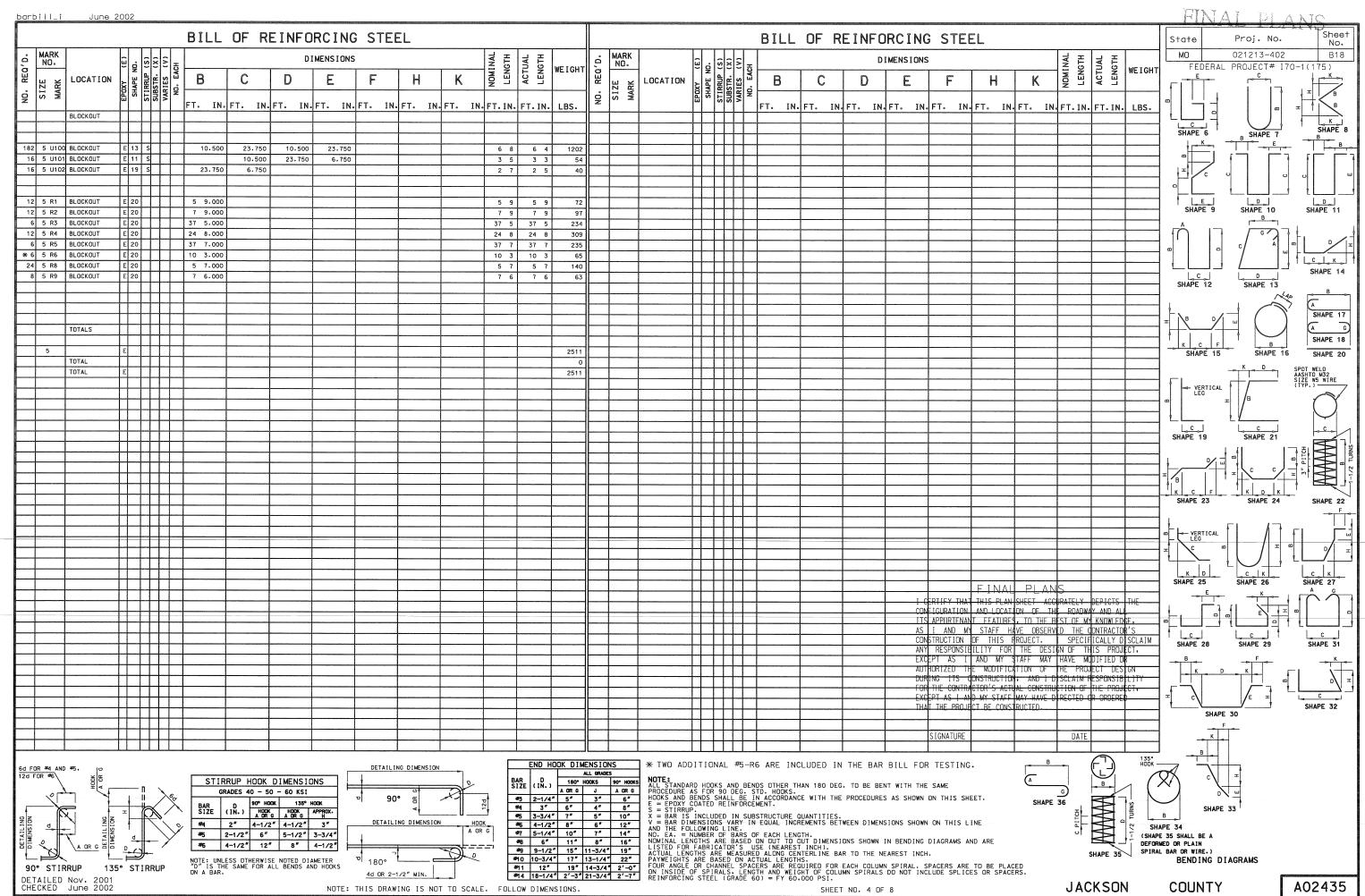
A02435

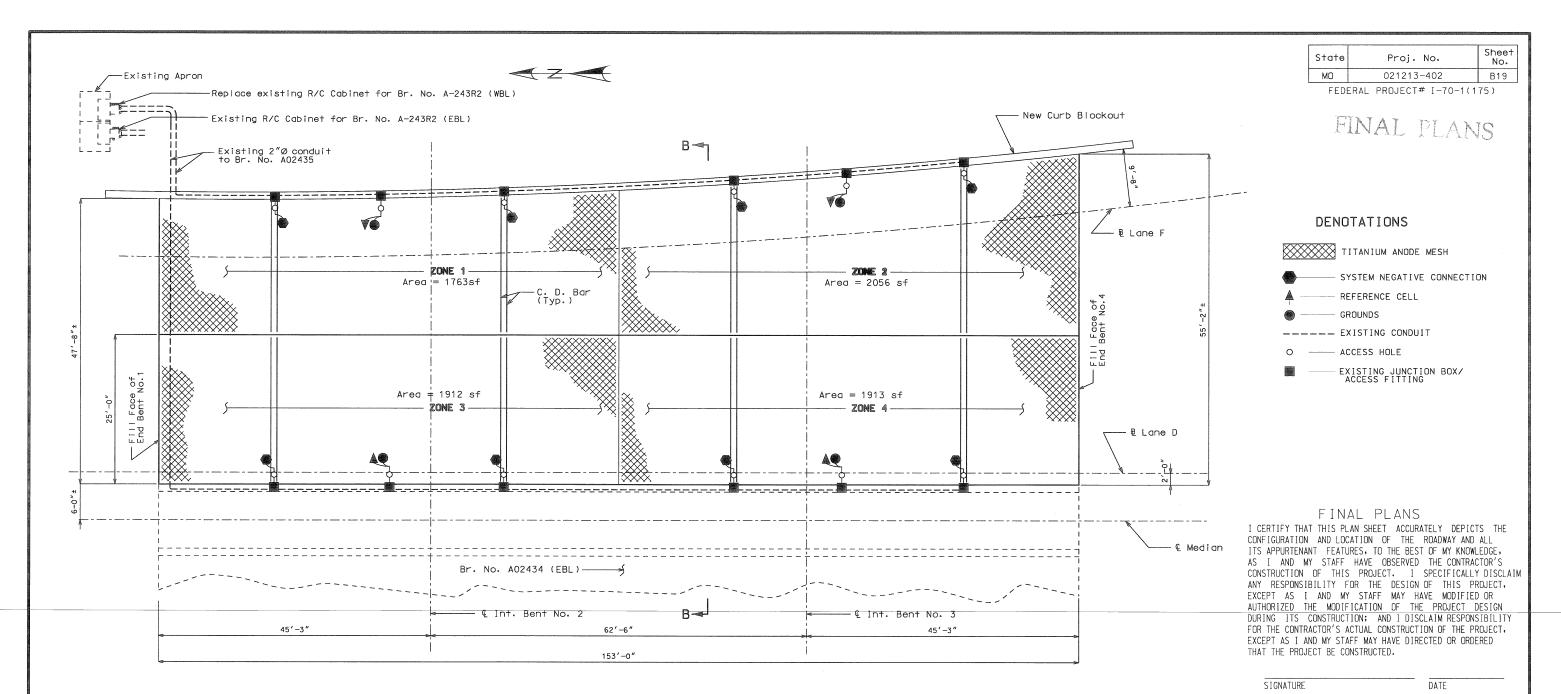
(Std. Spec. 1057.2.4)

FILLED JOINT DETAIL



78





PART PLAN OF SLAB SHOWING TITANIUM MESH CATHODIC PROTECTION SYSTEM

FINAL QUANTITIES	For information only	
ITEM	UNIT	QUANTITY
Titanium Anode Mesh (Elgard 210)	Sq. Feet	7644
Reference Cells	Each	4
Thermite Welds	Each	12
	1	

Note: No direct payment shall be made for any additional conduit, junction boxes, access fittings, additional material, labor and modification to existing conduit.

For Section B-B, typical zone layout and partial electrical schematic, see sheet no. 6.

Reference cells are to be placed at approximate $\mbox{\tt C}$ of zone length as determined by the engineer.

Current Distribution Bars (C.D. Bar) to be placed near 1/4 point of Zones.

Existing overlay and cathodic protection system shall be removed and the original deck scarified prior to installation of new Cathodic Protection System (see special provisions).

Replace existing R/C Cabinet with new enclosure, mounted on existing apron and meeting required manufacturer's specifications and all local electrical codes.

Use existing conduit and appurtenances, with the approval of the Engineer, as shown on the plans. All existing conduit and appurtenances not used with the new Cathodic Protection System shall be removed from the Structure.

All existing wiring in the deck and conduits shall be removed and replaced with new wiring.

The anode leads, system negative return leads, reference cell and reference cell ground lead shall be routed in one of the existing conduits.

The telephone cable shall be routed into the rectifier through one of the unused existing conduits.

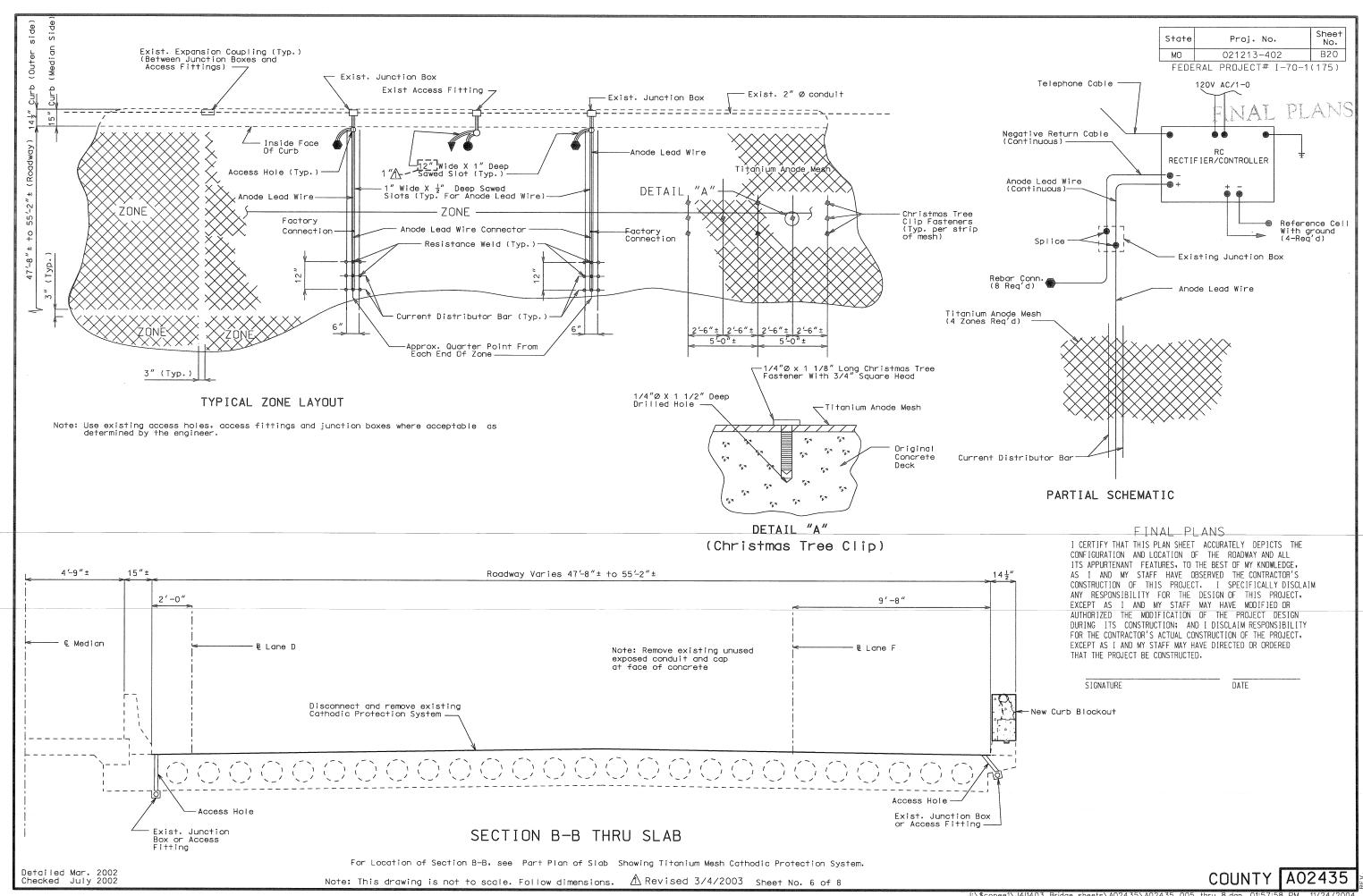
The reference cell ground lead shall be welded to the top rebar within 12" of the reference cell.

Anode assembly number must match zone number.

Existing access holes through deck not used with the new cathodic protection system shall have its plastic sleeve and silicone sealant removed, hole cleaned and plugged with a nonmetallic expansive mortar in accordance with Std. Spec. 1066.

Detailed Mar. 2002 Checked July 2002

JACKSON COUNTY A02435



 State
 Proj. No.
 Sheet No.

 MD
 021213-402
 B21

FEDERAL PROJECT# I-70-1(175)

FINAL PLANS

Notes for New Conduit and Appurtenances (if required by Engineer): Conduit shall be schedule 40 heavy wall PVC (Polyvinyl Chloride Plastic). Each section of conduit shall bear the underwriters laboratories, inc. (UL) label.

Conduit shall be secured to concrete with clamps (galvanized/AASHTO M111) at abt. 5'-0" cts. Concrete anchors for clamps shall meet federal specification FF-S-325, group II, type 4, class I and shall be galvanized in accordance with ASTM A-153, B695-91 class 50 or stainless steel. Minimum embedment in concrete shall be 1 3/4". The supplier shall furnish a manufacturer's certification that the concrete anchors meet the required material and galvanizing specifications.

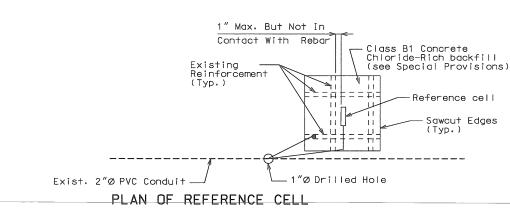
Weepholes shall be provided at appropriate locations to drain any moisture in the conduit lines.

Expansion couplings shall be installed on conduit lines between all junction boxes and access fittings as approved by the engineer.

The location and direction of conduit may be shifted to meet field conditions as directed by the engineer.

All junction boxes shall be PVC molded, surface mounted, size $8" \times 8" \times 7"$ and equal to Carlon Electrical Construction products or Triangle Conduit and Cable company Inc.. The terminations shall be permanent or separable.

The terminations and covers shall be of watertight construction.



Note: The 3/4"Ø ground rod shall be of sufficient length to extend a minimum of 10'0" below bottom of concrete pedestal. (Use existing if approved by the engineer).

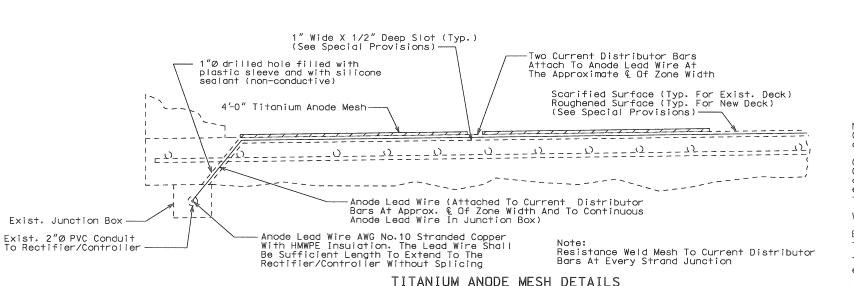
— Ground wire shall be AGW No.6 minimum (Use existing if approved by the engineer).

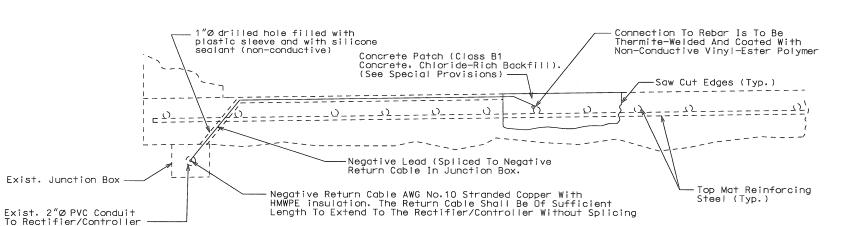
— Knockouts or drilled holes shall be provided in cabinets for all conduit. Locations of these holes are the responsibility of the contractor and cabinet manufacturer.

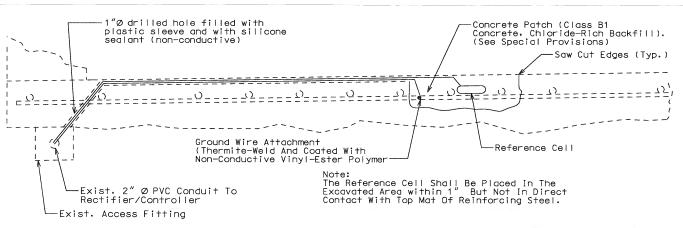
FINAL PLANS

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SIGNATURE DATE





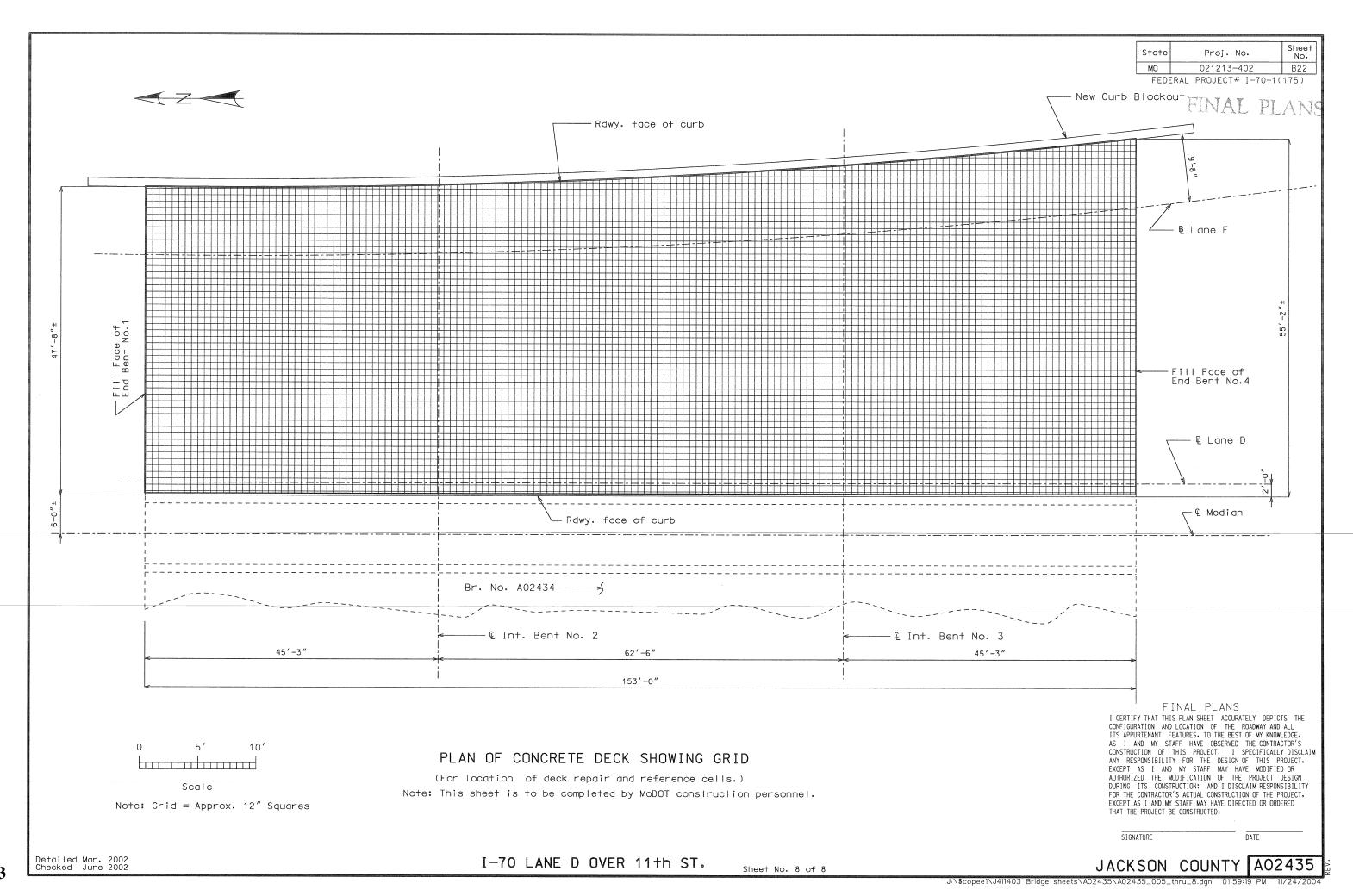


SYSTEM NEGATIVE CONNECTION DETAILS

REFERENCE CELL DETAILS

Note: All concrete removal shall be intiated by saw cutting the first 1/2".

Detailed Mar. 2002 Checked June 2002







COUNTY: JACKSON A0243 R2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: ROUTE CARRIED 'ON' STRUCT 3/7/2024 2023 **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type District 5B KC Route Signing Prefix MAINLINE **JACKSON** County 5C Designated Level of Service 00070 Federal ID No. 213 8 5D Route Number 1958 NOT APPLICABLE 27 Year Built 5E Directional Suffix IS 70 W 106 1984 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 0000003506 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 20 11-UR PRNCPL ARTERIAL-IS 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification RIGHT 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 55722 4 Place KANSAS CITY CITY 29 AADT 38000 2023 Code 30 AADT Year S 5 T 49 N R 33 W 1-WAY TRAFFIC Location 102 Direction of Traffic 11 Milepoint 247.13 miles 15% 109 AADT Truck Percent 16 Latitude 39 D 6 M 3 S 75225 114 Future AADT 17 Longitude 94 D 34 M 21 S 2043 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION CST E 11TH ST 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.62 miles Type of Service Under By pass Detour Length 03 40 Ft. 0 In. 28B Lanes Under Structure 32 Approach Roadway Width HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew YES 54B Vert. Clearance 35 Struct. Flared 14 Ft. 3 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 52 Ft. 6 In. 55A 47 55B Rt. Lat Clearance 6 Ft. 11 In. 48 62 Ft. 8 In. Maximum Span Length 152 Ft. 11 In. 0 Ft. 0 In. Left Lat Clearance 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. 52 Ft. 6 In. 40 Nav Horizontal Clear 51 Curb to Curb Br. Width 65 Ft. 7 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck



May 2, 2024 4:14:44pm

COUNTY: JACKSON A0243 R2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE CARRIED 'ON' STRUCT **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION Design Load HS 20 43A Main Struc. Mat type CONCRETE CONTINUOUS P - POSTED FOR LOAD SLAB 41 Structure Status 43B Main struc Constr. Type LOAD FACTOR 3 63 45 Oper. Rating Meth. # of Main Spans 64 59 Tons. 44A Appr Struc. Mat type Operating Rating 44B Appr Struc. Cnstr. type 65 LOAD FACTOR Inventory Rating Meth 35 Tons. 46 # of Approach Span **Inventory Rating** 1 CONCRETE CIP 70 =>LEGAL LOADS 107 Deck Mat/Constr. Bridge Posting Code 108A 4 LOW SLUMP Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 0 NONE 108B Membrane Mat/Constr. 93.0 Percent Sufficiency Rating 108C Deck Protect Mat/Constr. 4 CATHODIC NOT DEFICIENT **Deficiency Rating** CONDITION RATING INFORMATION Funding Eligibility Proposed Work 58 6 Deck Cond. Rating 75B Work Done By 59 Superstructure Cond. Rating 0 Ft. 0 In. 76 New Struc Length 60 Substructure Cond. Rating 94 Struc Improve Cost \$ 0.000 61 N Channel / Channel Protection Cond. Rating 95 \$ 0,000 Roadway Improve Cost 62 Culvert Cond. Rating \$0,000 96 Total Project Cost INSPECTION INFORMATION Year of Cost Estimates 90 9/23 Gen. Insp Date APPRAISAL RATING INFORMATION 91 Gen. Insp. Frequency 24 Months 36A Br. Rail App. Rating MEETS ACCEPTBLE STND 92A Frac. Critical Inspection N Months 36B 93A MEETS ACCEPTBLE STND Transition Rail App. Rating Frac. Critical Insp. Date 36C MEETS ACCEPTBLE STND 92B Approach Rail App. Rating Underwater Inspection Months MEETS ACCEPTBLE STND 36D 93B Rail End Treat. App. Rating Underwater Insp. Date 67 Struc Eval App. Rating 92C Special Inspection N Months Deck Geometry App. Rating 93C Special Inspection Date 69 Underclearance App. Rating BORDER BRIDGE INFORMATION 71 N Waterway Adeq. App. Rating 98 Neighboring State Code 72 6 Approach Road App. Rating 98B Neighboring State % Respon 113 N Scour Assess App. Rating 99 Neighboring State Struc. No. APPROVED POSTING INFORMATION FIELD POSTING INFORMATION S-C3 S-C3 Approved Posting Category Field Posting Category

Design No = A0243

Tonnage Values for Posting Sign

General Text for Posting Sign WEIGHT LIMIT 65 TONS. Ton1

65

Tonnage Values for Posting Sign

General Text for Posting Sign

WEIGHT LIMIT 65 TONS.

Ton2

Ton3

Ton3

Ton1

65

Ton2





COUNTY: JACKSON A0243 R2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE CARRIED 'ON' STRUCT **RECORD TYPE:** RUN DATE: **SUBMITTAL YEAR:** GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE CARRIED 'ON' STRUCT State MISSOURI 5A Record Type District 5B KC Route Signing Prefix MAINLINE **JACKSON** County 5C Designated Level of Service 00070 212 8 Federal ID No. 5D Route Number 1958 NOT APPLICABLE 27 5E Year Built Directional Suffix IS 70 E 106 1984 7 Year Reconstructed Facility Carried YES HIGHWAY Type of Service On 12 Base Hwv. Network STATE HIGHWAY AGENCY 000000019 21 Structure Maintenance 13A LRS Inventory Route No. 00 STATE HIGHWAY AGENCY 22 Structure Owner 13B Subroute No. 33 CLOSED MEDIAN(NO BARRIER) Toll Status ON FREE ROAD Br. Median Code 20 11-UR PRNCPL ARTERIAL-IS 37 Historical Significance NOT ELIGIBLE FOR NR OF HP 26 Functional Classification LEFT 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 ON A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length YES ON NHS 104 National Highway System NOT APPLICABLE 105 Federal Lands Highway YES 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 55722 4 Place KANSAS CITY CITY 29 AADT 38000 2023 Code 30 AADT Year S 5 T 49 N R 33 W 1-WAY TRAFFIC Location 102 Direction of Traffic 11 Milepoint 2.25 miles 18% 109 AADT Truck Percent 16 Latitude 39 D 6 M 3 S 75225 114 Future AADT 17 Longitude 94 D 34 M 22 S 2043 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION CST E 11TH ST 10 99 Ft. 99 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 0.62 miles Type of Service Under By pass Detour Length 03 40 Ft. 0 In. 28B Lanes Under Structure 32 Approach Roadway Width HIGHWAY 0.00 Degrees 54A Vert. Clearance Ref. 34 Skew YES 54B Vert. Clearance 35 Struct. Flared 14 Ft. 3 In. Rt. Lat Clear Ref. HIGHWAY Total Horiz. Clear 47 Ft. 7 In. 55A 47 55B Rt. Lat Clearance 6 Ft. 11 In. 48 62 Ft. 8 In. Maximum Span Length 152 Ft. 11 In. 0 Ft. 0 In. Left Lat Clearance 49 Structure Length N/A Navigation Control 50A 0 Ft. 0 In. Left Curb/Sidewalk Width Nav Vertical Clear 0 Ft. 0 In. 39 50B Right Curb/Sidewalk Width 0 Ft. 0 In. 0 Ft. 0 In. Curb to Curb Br. Width 47 Ft. 11 In. 40 Nav Horizontal Clear 51 59 Ft. 5 In. Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 99 Ft. 99 In. 53 Vert.Clearance Over Deck



Proposed Work

Work Done By

New Struc Length

Struc Improve Cost

Br. Rail App. Rating

Approach Road App. Rating

WEIGHT LIMIT 65 TONS.

Scour Assess App. Rating

Roadway Improve Cost

75B

76

94

95

113

Missouri Department of Transportation Bridge Inventory and Inspection System Structural Inventory & Appraisal Sheet

May 2, 2024 4:14:44pm

N

Ton3

Ton2

COUNTY: JACKSON A0243 R2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE CARRIED 'ON' STRUCT **SUBMITTAL YEAR: RECORD TYPE: RUN DATE:** LOAD RATING AND POSTING INFORMATION MATERIAL/CONSTRUCTION INFORMATION CONCRETE CONTINUOUS Design Load HS 20 43A Main Struc. Mat type P - POSTED FOR LOAD SLAB 41 Structure Status 43B Main struc Constr. Type LOAD FACTOR 3 63 45 Oper. Rating Meth. # of Main Spans 59 Tons. 44A Appr Struc. Mat type Operating Rating 44B Appr Struc. Cnstr. type 65 LOAD FACTOR Inventory Rating Meth 35 Tons. 46 # of Approach Span **Inventory Rating** 1 CONCRETE CIP 70 =>LEGAL LOADS 107 Deck Mat/Constr. Bridge Posting Code 108A 4 LOW SLUMP Wear Surf Mat/Constr. PROPOSED IMPROVEMENT INFORMATION 0 NONE 108B Membrane Mat/Constr. 60.4 Percent Sufficiency Rating 108C Deck Protect Mat/Constr. 0 NONE **FUNCTIONAL Deficiency Rating** PARTIAL CONDITION RATING INFORMATION Funding Eligibility

58

59

60

61

62

90

91

92A

93A

98B

99

Deck Cond. Rating

Superstructure Cond. Rating

Substructure Cond. Rating

Culvert Cond. Rating

Gen. Insp. Frequency

Frac. Critical Inspection

Frac. Critical Insp. Date

Gen. Insp Date

Channel / Channel Protection Cond. Rating

INSPECTION INFORMATION

9/23

24

N

N

N

96	Total Project Cost	\$ 1,850,000	
97	Year of Cost Estimates	2024	
APPRAISAL RATING INFORMATION			

Contract

0 Ft. 0 In.

\$ 1,233,000

\$ 123,000

REHAB-GENERAL DETERIORAT

MEETS ACCEPTBLE STND

36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND
67	Struc Eval App. Rating	5
68	Deck Geometry App. Rating	2
69	Underclearance App. Rating	4
71	Waterway Adeq. App. Rating	N

98	Neighboring State Code
	BORDER
93C	Special Inspection Date
92C	Special Inspection
93B	Underwater Insp. Date
92B	Underwater Inspection

BORDER BRIDGE INFORMATION
Neighboring State Code
Neighboring State % Respon
Neighboring State Struc. No.

Months

Months

Months

Months

APPROVED	POSTING	INFORMATION

Approved Posting Category	3-03			
	Ton1	Ton2	Ton3	
Tonnage Values for Posting Sign	65			
General Text for Posting Sign				

Field Posting Category	S-C3		
		Ton1	

Tonnage Values for Posting Sign	65	
General Text for Posting Sign		

FIELD POSTING INFORMATION

General Text for Posting Sign
WEIGHT LIMIT 65 TONS.

Design No = A0243



May 2, 2024 4:14:44pm

COUNTY: JACKSON A0243 R2 REVIEW STATUS: APPROVED P **BRIDGE:** NBI STATUS: 3/7/2024 2023 ROUTE 'UNDER' STRUCT **RECORD TYPE: SUBMITTAL YEAR:** RUN DATE: GENERAL STRUCTURE INFORMATION ROUTE DESIGNATION INFORMATION ROUTE 'UNDER' STRUCT State Code: 2 MISSOURI 5A Record Type CST District 5B KC Route Signing Prefix MAINLINE **JACKSON** County 5C Designated Level of Service 00000 Federal ID No. 213 8 5D Route Number 1958 NOT APPLICABLE 27 Year Built 5E Directional Suffix IS 70 W 106 0 7 Year Reconstructed Facility Carried HIGHWAY Type of Service On 12 Base Hwv. Network Structure Maintenance 13A LRS Inventory Route No. 22 Structure Owner 13B Subroute No. 33 ON FREE ROAD Br. Median Code Toll Status 20 17-URBAN COLLECTOR 37 Historical Significance 26 Functional Classification RIGHT 101 28A Parallel Struc Desg Lanes on Structure NOT TEMPORARY Temporary Structure 103 RTE NOT A DEFENSE HWY 100 STRAHNET Designation NBIS Bridge Length NOT ON NHS 104 National Highway System 105 Federal Lands Highway NO 110 Designated Nat. Network STRUCTURE LOCATION INFORMATION STRUCTURE TRAFFIC INFORMATION 1679 4 Place KANSAS CITY CITY 29 AADT 38000 2023 Code 30 AADT Year S 5 T 49 N R 33 W 1-WAY TRAFFIC Location 102 Direction of Traffic 11 Milepoint 0.48 miles 5% 109 AADT Truck Percent 16 Latitude 39 D 6 M 3 S 114 Future AADT 17 Longitude 94 D 34 M 21 S 115 Future AADT Year UNDERRECORD INFORMATION STRUCTURE GEOMETRIC INFORMATION CST E 11TH ST 10 14 Ft. 3 In. Features Intersected Inventory Rte. Vert. Clear 42B HIGHWAY 19 14.26 miles Type of Service Under By pass Detour Length 28B Lanes Under Structure 03 32 Approach Roadway Width 54A Vert. Clearance Ref. 34 Skew 54B Vert. Clearance 35 Struct. Flared Rt. Lat Clear Ref. Total Horiz. Clear 55 Ft. 5 In. 55A 47 55B Rt. Lat Clearance 48 62 Ft. 8 In. Maximum Span Length 152 Ft. 11 In. Left Lat Clearance 49 Structure Length Navigation Control 50A Left Curb/Sidewalk Width Nav Vertical Clear 39 50B Right Curb/Sidewalk Width 40 Nav Horizontal Clear 51 Curb to Curb Br. Width Nav. Pier Protection Deck Width (Out-Out) 111 52 Nav. Cl. Vert. Clear 53 Vert.Clearance Over Deck



May 2, 2024 4:14:44pm

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