
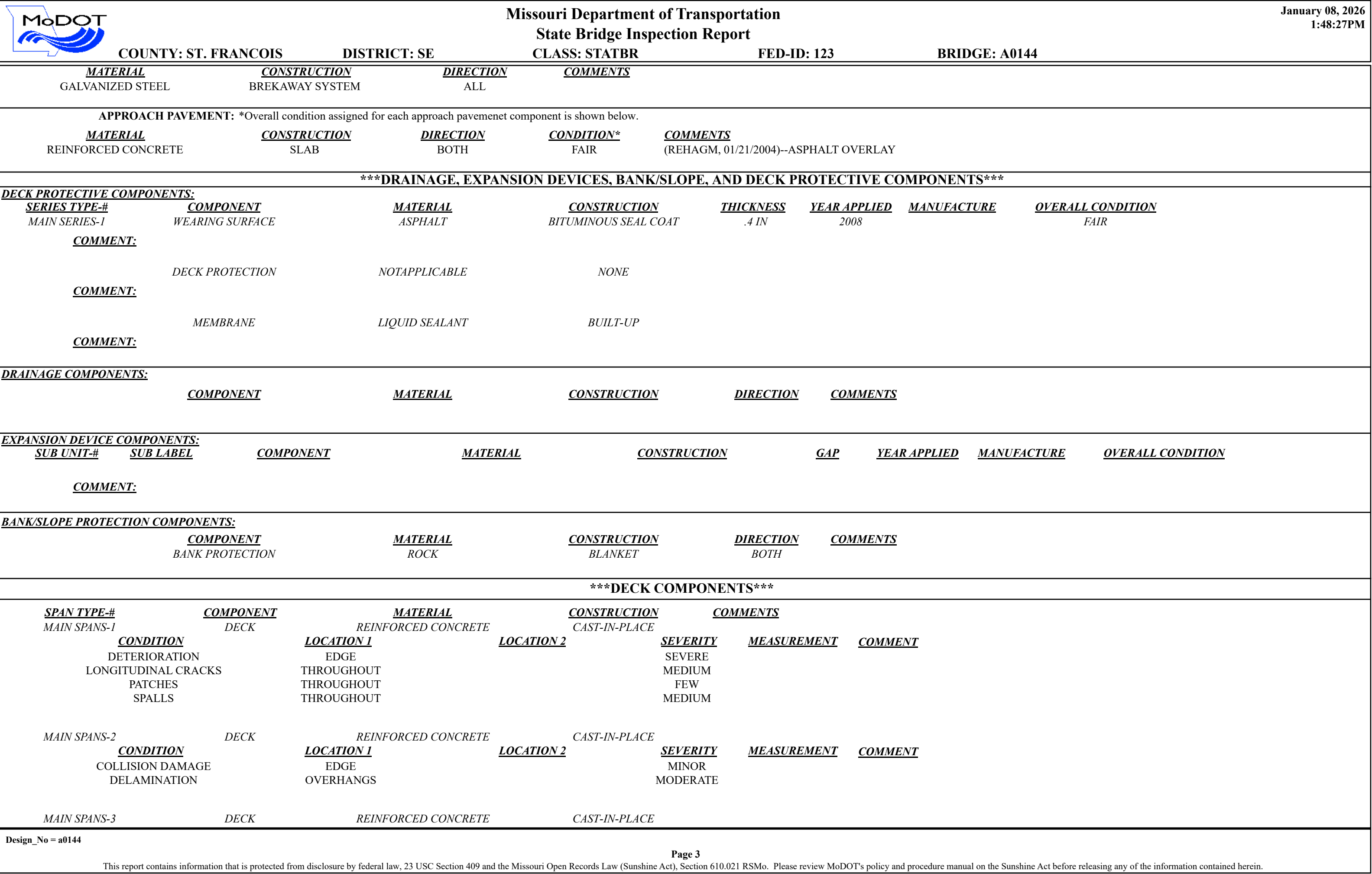
		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>				<div>January 08, 2026</div> <div>1:48:27PM</div>			
COUNTY: ST. FRANCOIS		DISTRICT: SE		CLASS: STATBR		FED-ID: 123		BRIDGE: A0144	
***GENERAL STRUCTURE INFORMATION***							***BRIDGE INSPECTION INFORMATION***		
<div>ROUTE: MO32W</div> <div>FEATURE: US 67</div> <div>STATUS: A-OPEN</div> <div>LOG MILE: 32.724</div> <div>DETOUR: 10.00 MILES</div> <div>NHS: YES</div> <div>BUILT: 1957</div> <div>REHAB: 1987</div> <div>LOCATION: S 9 T 36 R 5 E</div> <div>LATITUDE: 37 50 20.31 (DMS)</div> <div>LONGITUDE: 90 29 4.07 (DMS)</div>		<div># SPANS: 4</div> <div>LANES ON: 2</div> <div>LANES UNDER: 4</div> <div>COMPASS DIRECTION: WEST to EAST</div> <div>DIRECTION OF TRAFFIC: 2-WAY TRAF</div> <div>FUNCTIONAL CLASS: UR-PRINCIPAL ARTERIAL</div> <div>NBI OWNER: MODOT</div> <div>NBI MAINTAINED: MODOT</div> <div>MAINTENANCE DISTRICT: SE</div> <div>MAINTENANCE COUNTY: ST. FRANCOIS</div> <div>SUB AREA: 7H34</div>		<div>PLACE CODE: 22636 ESTHER CITY</div> <div>LENGTH: 207 FT 0 IN</div> <div>MAXIMUM SPAN: 56 FT 0 IN</div> <div>APPROACH ROADWAY: 48 FT 0 IN</div> <div>CURB TO CURB: 52 FT 11 IN</div> <div>OUT TO OUT: 55 FT 7 IN</div> <div>AADT: 17288</div> <div>AADT YEAR: 2024</div> <div>AADT TRUCK: 5.0%</div> <div>FUTURE AADT: 30254</div> <div>FUTURE AADT YEAR: 2044</div>		<div>DATE: 10/17/2024</div> <div>RESPONSIBILITY: DISTRICT</div> <div>FREQUENCY: 24</div> <div>CALCULATED INTERVAL**: 24</div> <div>TEAM LEADER: ETHAN PINKLEY</div> <div>ELEMENT: YES</div> <div>INSPECTOR 2:</div> <div>INSPECTOR 4:</div> <div>INSPECTOR 3:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>			
						GENERAL INSPECTION COMMENTS			
***FRACTURE CRITICAL INSPECTION INFORMATION***					***INDEPTH INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
FRACTURE CRITICAL INSPECTION COMMENTS					INDEPTH INSPECTION COMMENTS				
***SPECIAL INSPECTION INFORMATION***					***UNDERWATER INSPECTION INFORMATION***				
<div>DATE:</div> <div>FREQUENCY:</div> <div>TEAM LEADER:</div> <div>INSPECTOR 2:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>					<div>RESPONSIBILITY:</div> <div>CALCULATED INTERVAL**:</div> <div>INSPECTOR 3:</div> <div>INSPECTOR 4:</div> <div>CATEGORY:</div> <div>NBI:</div> <div>METHOD:</div> <div>** When calculated interval exceeds the frequency, a justification comment per BIRM is required.</div>				
SPECIAL INSPECTION COMMENTS					UNDERWATER INSPECTION COMMENTS				
OTHER SPECIAL INSPECTIONS					OTHER UNDERWATER INSPECTIONS				
<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>					<div>DATE</div> <div>FREQUENCY</div> <div>CATEGORY</div> <div>NBI</div> <div>CALCULATED INTERVAL</div> <div>RESPONSIBILITY</div> <div>METHOD</div>				


Design\_No = a0144

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		Missouri Department of Transportation			January 08, 2026	
		State Bridge Inspection Report			1:48:27PM	
COUNTY: ST. FRANCOIS		DISTRICT: SE	CLASS: STATBR	FED-ID: 123	BRIDGE: A0144	
***STRUCTURE POSTING***						
APPROVED CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:		
COMMENTS:						
FIELD CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:	PROBLEM:	PROBLEM DIRECTION:
COMMENTS:						
***GENERAL COMMENTS/MAJOR RATED ITEMS***						
GENERAL COMMENTS: (BOWDEJ1, 09/04/2008)--(46'-56'-56'-46') CONT VOIDED CONC SLAB SPANS						
[ITEM 58] DECK:		6-SATISFACTORY CONDITION		COMMENTS: (DENNIB1, 08/19/2014)--L-CRACKS & EFFOURESENCE		
RATING :		08/09/2016				
[ITEM 59] SUPER:		6-SATISFACTORY CONDITION		COMMENTS: (DENNIB1, 08/19/2014)--SAME AS DECK		
RATING :		08/09/2016				
[ITEM 60] SUB:		7-GOOD CONDITION		COMMENTS: (DENNIB1, 08/19/2014)--DIAGONAL CRACKS		
RATING :		05/18/2001				
[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:		8-VERYGOOD		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:
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	SAFETY BARRIER CURB	BOTH				
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>		
VERTICAL CRACKS	RANDOM		MINOR			
[ITEM 36B] TRANSITION RAILING RATING:		MEETS CURRENT STANDARDS-1		RATING :	05/18/2001	COMMENTS:
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
GALVANIZED STEEL	THRIE BEAM TO W-BEAM	ALL				
[ITEM 36C] APPROACH RAILING RATING:		MEETS CURRENT STANDARDS-1		RATING :	05/18/2001	COMMENTS:
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
GALVANIZED STEEL	W-BEAM	ALL				
[ITEM 36D] RAIL END TREATMENT RATING:		MEETS CURRENT STANDARDS-1		RATING :	05/18/2001	COMMENTS:
Design_No = a0144						
Page 2						
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		State Bridge Inspection Report						1:48:27PM	
COUNTY: ST. FRANCOIS		DISTRICT: SE		CLASS: STATBR		FED-ID: 123		BRIDGE: A0144	
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
DETERIORATION		EDGE				MODERATE			
EFFLORESCENCE		EDGE				MODERATE			
MAIN SPANS-4		DECK		REINFORCED CONCRETE		CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
LONGITUDINAL CRACKS		THROUGHOUT				MEDIUM			
PATCHES		THROUGHOUT				FEW			
SPALLS		THROUGHOUT				MEDIUM			
***SUPERSTRUCTURE COMPONENTS***									
<u>SERIES TYPE-#</u>		<u>SPAN TYPE</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>		<u>LABEL</u>	
MAIN SERIES-1		CONTINUOUS SPAN		REINFORCED CONCRETE		VOIDED SLAB			
<u>SPAN</u>		<u>COMPOSITE INDICATOR</u>		<u>LENGTH</u>		<u>WEATHERING STEEL</u>		<u>COMMENTS</u>	
MAIN SPANS-1		NON-COMPOSITE		46 FT 0 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
MAIN SPANS-2		NON-COMPOSITE		56 FT 0 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
MAIN SPANS-3		NON-COMPOSITE		56 FT 0 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
MAIN SPANS-4		NON-COMPOSITE		46 FT 0 IN		NO			
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
***SUBSTRUCTURE COMPONENTS***									
<u>SUBSTRUCTURE</u>		<u>SKEW</u>		<u>LENGTH</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>	
ABUTMENT-1				57 FT 3 IN		REINFORCED CONCRETE		NON-INTEGRAL	
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>					
BEAM CAP		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>	
DIAGONAL CRACKS		RANDOM				FEW			
LEACHING		THROUGHOUT				MINOR			
COLUMN		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>	
FOOTING		REINFORCED CONCRETE		SPREAD					
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
EXPOSED		BOTTOM				MINOR			
STRAIGHT 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					
<u>CONDITION</u>		<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
								<u>COMMENT</u>	
DELAMINATION		BEAM CAP				MINOR			
LEACHING		BEAM CAP				MINOR			
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>					

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# Missouri Department of Transportation

## State Bridge Inspection Report

**January 08, 2026**  
**1:48:27PM**

**COUNTY: ST. FRANCOIS**

**DISTRICT: SE**

**CLASS: STATBR**

**FED-ID: 123**

**BRIDGE: A0144**

COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE				
	<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>
<b>BENT-3</b>						
	REINFORCED CONCRETE	MULTIPLE COLUMN				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
DELAMINATION	BEAM CAP			MINOR		
LEACHING	BEAM CAP			MINOR		
<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE				
	<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>
<b>BENT-4</b>						
	REINFORCED CONCRETE	MULTIPLE COLUMN				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
COLUMN	REINFORCED CONCRETE	INTEGRAL CAST-IN-PLACE				
	<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>
<b>ABUTMENT-5</b>						
	57 FT 3 IN REINFORCED CONCRETE	NON-INTEGRAL				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
<u>ASSOCIATED COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>				
BEAM CAP	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>
DIAGONAL CRACKS	RANDOM			FEW		
COLUMN	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>
FOOTING	REINFORCED CONCRETE	SPREAD				
	<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EXPOSED	BOTTOM			MINOR		
STRAIGHT 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>

\*\*\*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.

<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>
----------------------------------	--------------	------------------	-------------	----------------

**Design\_No = a0144**

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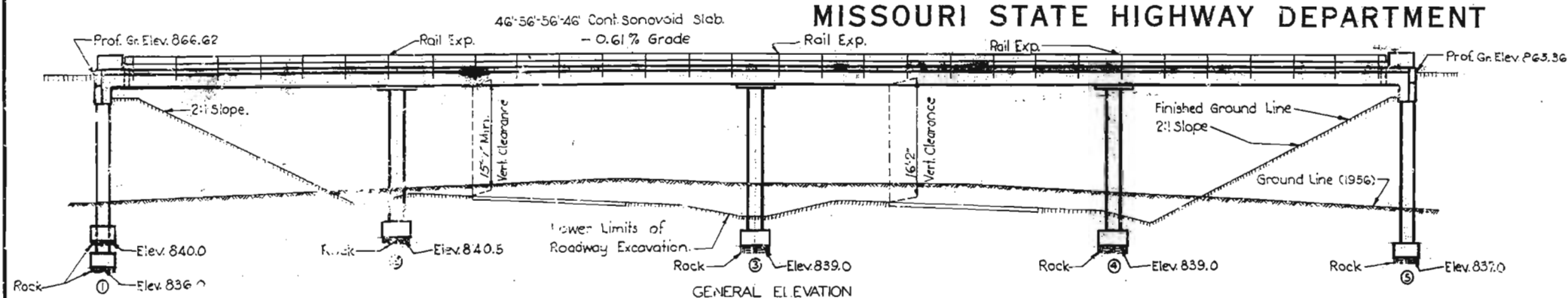
		<div>Missouri Department of Transportation</div> <div>State Bridge Inspection Report</div>					<div>January 08, 2026</div> <div>1:48:27PM</div>																																																		
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<div><div>CONDITION:</div><div>RUST AMOUNT :</div><div>STEEL TONS :</div><div><table><tr><td colspan="2"><u>ORIGINAL PAINT</u></td><td colspan="2"><u>CONTRACT REPAINT</u></td><td colspan="2"><u>DEPARTMENT REPAINT</u></td><td colspan="2"><u>MANUFACTURE :</u></td></tr><tr><td colspan="2">PAINT TYPE :</td><td colspan="2">PAINT TYPE :</td><td colspan="2">PAINT TYPE :</td><td colspan="2">SURFACE PREP :</td></tr><tr><td colspan="2">NAME :</td><td colspan="2">NAME :</td><td colspan="2">NAME :</td><td colspan="2"></td></tr><tr><td colspan="2">PAINT COLOR :</td><td colspan="2">PAINT COLOR :</td><td colspan="2">PAINT COLOR :</td><td colspan="2"></td></tr><tr><td colspan="2">PAINT YEAR :</td><td colspan="2">PAINT YEAR :</td><td colspan="2">PAINT YEAR :</td><td colspan="2"></td></tr><tr><td colspan="2">MILS :</td><td colspan="2">MILS :</td><td colspan="2">MILS :</td><td colspan="2"></td></tr></table></div></div>										<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>		<u>MANUFACTURE :</u>		PAINT TYPE :		PAINT TYPE :		PAINT TYPE :		SURFACE PREP :		NAME :		NAME :		NAME :				PAINT COLOR :		PAINT COLOR :		PAINT COLOR :				PAINT YEAR :		PAINT YEAR :		PAINT YEAR :				MILS :		MILS :		MILS :			
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***REQUESTED WORK ITEMS***																																																									
GENERAL WORK COMMENTS:																																																									
<table><tr><td>RESPONSIBILITY</td><td>LOCATION</td><td>ITEM</td><td>CATEGORY</td><td>PRIORITY</td><td>DATE</td><td>WORK ITEM COMMENT</td></tr><tr><td colspan="7"></td></tr></table>										RESPONSIBILITY	LOCATION	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT																																									
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***UTILITY ATTACHMENTS***																																																									
<table><tr><td>UTILITY</td><td>OWNER</td><td>METHOD</td><td>MEASUREMENT TYPE</td><td>VALUE</td><td>NUMBER</td><td>UTILITY ATTACHMENT COMMENT</td></tr><tr><td>ELECTRIC</td><td>MODOT</td><td>CONDUIT</td><td></td><td></td><td>1</td><td></td></tr></table>										UTILITY	OWNER	METHOD	MEASUREMENT TYPE	VALUE	NUMBER	UTILITY ATTACHMENT COMMENT	ELECTRIC	MODOT	CONDUIT			1																																			
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***PROGRAM NOTES INFORMATION***																																																									
<table><tr><td>YEAR</td><td>PROJECT #</td><td>MONTH LET</td><td>YEAR LET</td><td>ITEMS</td><td>COMMENT</td></tr><tr><td colspan="6"></td></tr></table>										YEAR	PROJECT #	MONTH LET	YEAR LET	ITEMS	COMMENT																																										
YEAR	PROJECT #	MONTH LET	YEAR LET	ITEMS	COMMENT																																																				
<div>Design_No = a0144</div> <div>Page 6</div> <div>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.</div>																																																									

			<b>Missouri Department of Transportation</b>		<b>January 08, 2026</b>	
			<b>State Bridge Inspection Report</b>		<b>1:48:27PM</b>	
<b>COUNTY: ST. FRANCOIS</b>			<b>DISTRICT: SE</b>		<b>CLASS: STATBR</b>	
			<b>FED-ID: 123</b>		<b>BRIDGE: A0144</b>	
<b>***COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS***</b>				<b>***ADVANCED SIGN INFORMATION***</b>		
NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.				<b>SIGN #</b>		
				<b>SIGN TYPE</b>		
				<b>PROBLEM</b>		
				<b>PROBLEM DIRECTION</b>		
<b><u>Rated Item</u></b>				<b><u>Rating</u></b>		
				<b><u>Rating Date</u></b>		
[Item 67] Structure Evaluation Rating:				6-EQ TO PRESENT MIN CRITR		
[Item 68] Deck Geometry Rating:				9-SUPR TO PRES DESIRABLE		
[Item 69] Underclearance:				4-MEETS MINIMUM TOLERABLE		
Sufficiency Rating:				84.4%		
Deficiency:				NOT DEFICIENT		
Funding Eligibility:				----		
Estimated New Structure Length:				----		
Estimated Structure Cost:				----		
Estimated Total Project Cost:				----		
Year of Cost Estimate:				----		
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 square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.						
				<b>***OUTFALL INSPECTION INFORMATION***</b>		
				# OUTFALLS: 0		
				INSPECTOR: CHRIS CROCKER		
				STATUS: NONE		
				DATE: 10/12/2018		
				NOTES:		

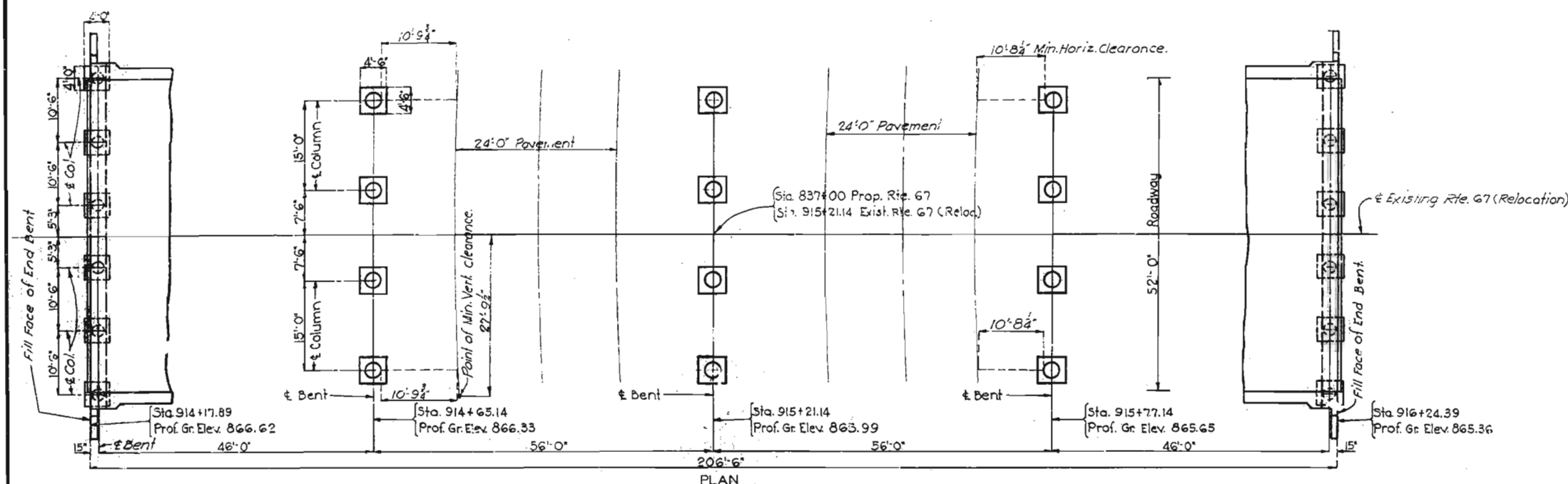


# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19		



Note: All loose, shelly or disintegrated rock shall be removed and the footings placed on hard, solid, undisturbed rock. If soft rock or shale is encountered, the footings shall be carried at least 18' into and cast against vertical faces of same. In no case shall footings for Bents No. 2, 3 and 4 be placed higher than Elevations shown on plans.



## GENERAL NOTES:

Design Specifications: A.A.S.H.O. 1953.  
 Loading H20-S16-44 (Future wearing surface 15'/'').  
 Reinforcing Steel Stress: 20,000 psi.  
 Concrete Stress: 1400 psi.  
 Concrete for superstructure shall be Class "B-1" air entrained. (See Special Provisions).  
 Concrete for substructure shall be Class "B" air entrained. If the contractor desires, he may use Class "B-1" in lieu of Class "B" for concrete in substructure with payment on the basis of Class "B" concrete.  
 Where joint filler is specified on the plans it shall conform with the requirements for Gray Rubber Compound Joints as given in Section 59-22 B of the Standard Specifications.  
 A rubbed surface finish will be required on all exposed surfaces of concrete end posts above top of curbs.  
 Paint: Shop, none. Field, contact surfaces of bolted field connections (steel to steel) one coat of red lead and surfaces of rail posts in contact with concrete three coats of red lead. No other paint to be applied by Contractor. Red lead required shall be furnished by Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for fabricated structural steel.  
 Falsework shall remain in place until the entire superstructure slab has been poured and attained the design strength as specified in the Standard Specifications.  
 Before any falsework is removed the middle half of slab in each span shall be relieved of any support from falsework. Removal of falsework may then proceed in any span starting near middle of span and proceeding toward the substructure units.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
Class I Excavation for Structures	Cu. Yds.	30.0	30.0
Class "B" Concrete	Cu. Yds.	40.3	40.3
Class "B-1" Concrete	Cu. Yds.	808.5	808.5
Reinforcing Steel	Lbs.	4560	197000
Fabricated Structural Steel	Lbs.	13,950	13,950

Note: All excavation for bridge shall be paid for as Class I Excavation for Structures. Estimated quantities of Class I Excavation for structures includes only amount of excavation below limits of Roadway Excavation. (See Special Provisions).  
 All concrete and reinforcing steel above footings is included in Superstructure quantities.

B.M. #104 Elev. 833.09 N 4° W in root of 20" W. Oak 100' R. Sta. 833+50 (U.S.G.S. Datum)

**BRIDGE: RELOCATED RTE. 67 UNDERPASS**  
 STATE ROAD FROM BONNE TERRE TO FARMINGTON  
 ABOUT 2.0 MILES S.E. OF FLAT RIVER  
 PROJECT NO. F-254(11) (RTE. 67) STA. 837+00  
 ST. FRANCOIS COUNTY

SUBMITTED BY *J. A. Williams* DATE 8-15-1957  
 APPROVED BY *Prof. M. Whitton* DATE 8-15-1957  
 BRIDGE ENGINEER  
 CHIEF ENGINEER

STD. C-110 R4  
 A-144

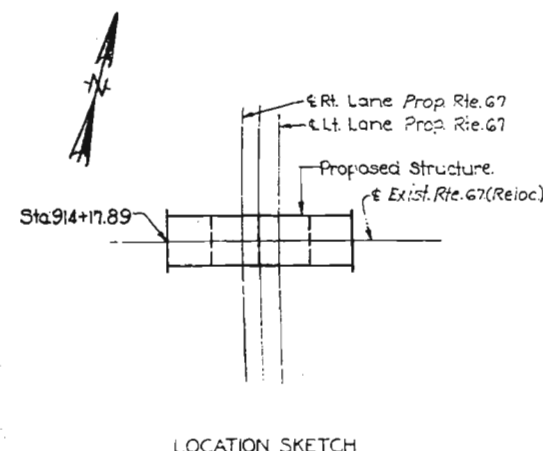
Drawn APRIL 1957 by K.R.W.  
 Checked Aug. 1957 by D.B.

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

Sheet No. 1 of 6.

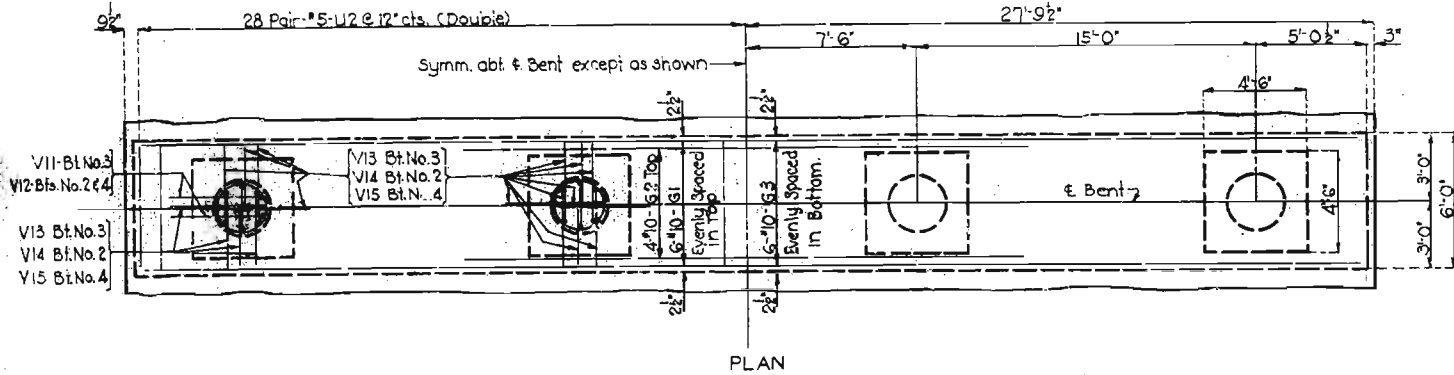
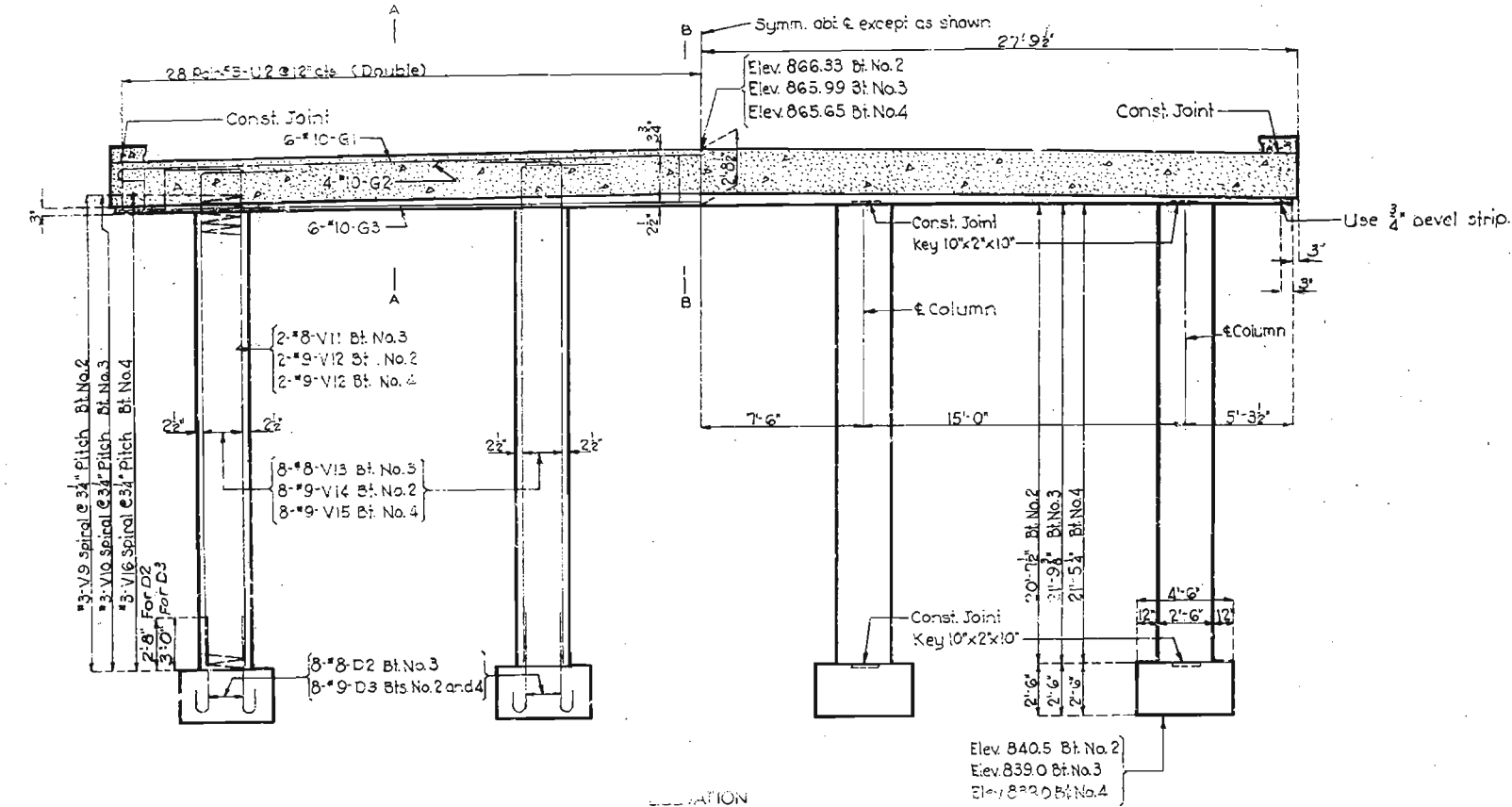
SEE FINAL PLANS BROWN LINES

384

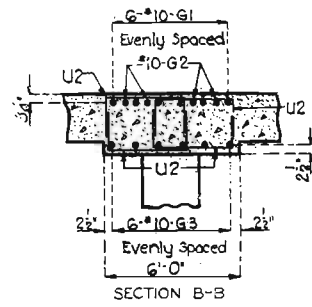
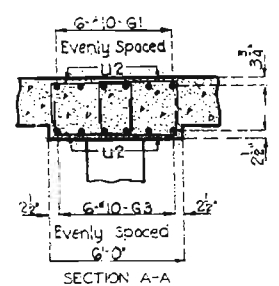


MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	NO.		19		



DETAILS OF INT. BENTS NO. 2, 3 & 4



COMPLETE BILL OF REINFORCING STEEL									
NO.	SIZE	LENGTH	MARK	LOCATION	BENDING SKETCHES & CUTTING DIAGRAMS				
SUPERSTRUCTURE					SUPERSTRUCTURE INT. BENT NO. 2				
20	#5	6'-9"	C1	Fl. Curb					
396	#5	6'-0"	C2	Curb					
4	#5	6'-0"	C3	Fl. Curb					
24	#5	24'-6"	C4	Curb					
24	#5	29'-0"	C5	Curb	SUPERSTRUCTURE INT. BENT NO. 3				
24	#4	3'-9"	R1	End Post					
20	#4	5'-9"	R2	End Post					
424	#5	27'-6"	S1	Slab					
76	#6	25'-6"	S3	Slab	SUPERSTRUCTURE INT. BENT NO. 4				
114	#11	35'-0"	S4	Slab					
108	#11	24'-0"	S5	Slab					
72	#11	12'-0"	S6	Slab					
76	#6	25'-0"	S7	Slab	SUPERSTRUCTURE INT. BENT NO. 5				
36	#11	14'-0"	S8	Slab					
72	#10	35'-0"	S9	Slab					
72	#10	25'-0"	S10	Slab					
76	#10	49'-0"	S11	Slab	SUBSTRUCTURE END BENTS NO. 1 & 5				
72	#10	37'-0"	S12	Slab					
72	#10	21'-0"	S13	Slab					
76	#10	53'-3"	S14	Slab					
424	#5	29'-6"	S15	Slab	SUBSTRUCTURE INT. BENTS 2 & 4				
10	#6	7'-0"	H1	Wing					
4	#6	10'-3"	H2	Wing					
74	#6	12'-3"	S2	Beam					
8	#8	30'-9"	S16	Beam	SUBSTRUCTURE INT. BENT NO. 3				
8	#8	28'-2"	S17	Beam					
4	#6	30'-6"	S18	Beam					
114	#5	8'-6"	U1	Beam					
4	#6	28'-6"	S19	Beam	SUBSTRUCTURE INT. BENT NO. 3				
3	#4	7'-6"	V1	Wing					
4	#4	5'-0"	V2	Wing					
40	#10	23'-6"	V3	Column					
8	#10	27'-9"	V5	Column	SUBSTRUCTURE INT. BENT NO. 3				
5	#3	48'-6"	V6	Column					
1	#3	48'-6"	V8	Column					
4	#6	10'-6"	T1	Wing					

BRIDGE: RELOCATED RTE. 67 UNDERPASS  
STATE ROAD FROM BONNE TERRE TO FARMINGTON  
ABOUT 2.0 MILES S.E. OF FLAT RIVER  
PROJECT NO. F-254(1)(RTE. 67) STA. 837+00  
ST. FRANCOIS COUNTY

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Drawn MAY 1957 by K.R.W.  
Checked Aug. 1957 by D.B.

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

Sheet No. 2 of 6

SEE FINAL PLANS GROWN LINES

A-144



386

Drawn APRIL 1957 by K.R.W.  
Checked Aug. 1957 by D.B.

Sheet No. 3 of 6.

A-144

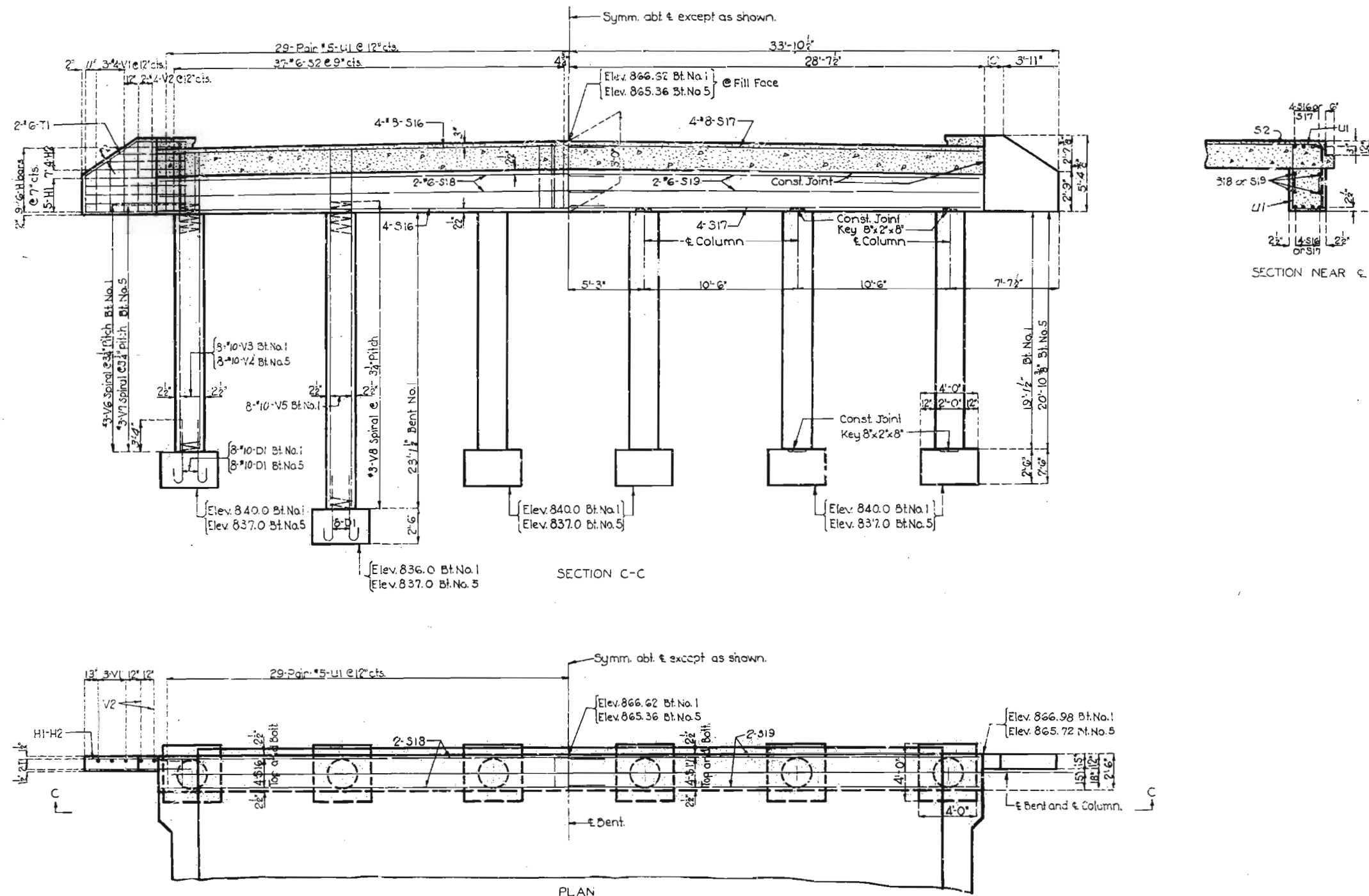
COUNTY

DETAILS OF END BENTS NO. 1&5

## PLAN

SECTION C-C

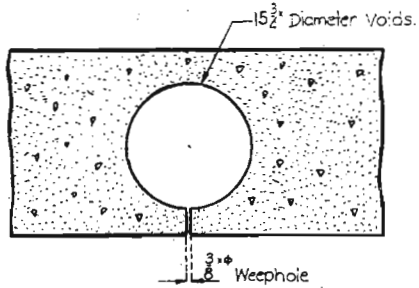
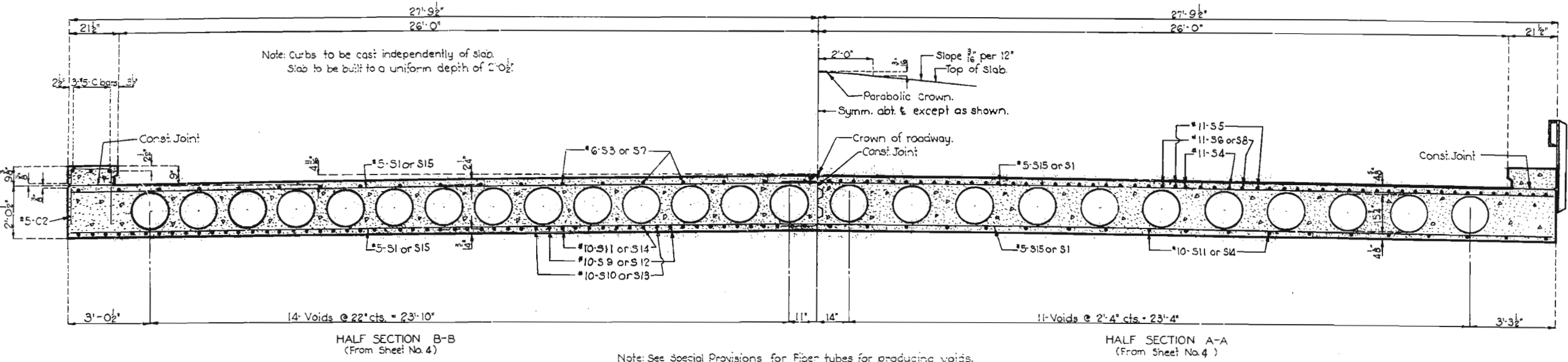
SECTION NEAR E





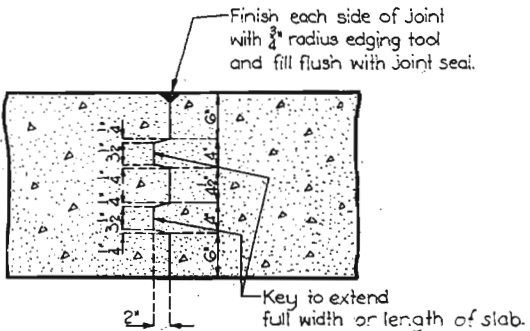
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19		

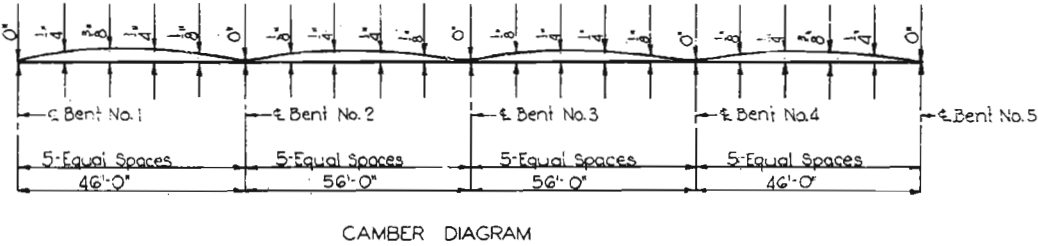


Note: One 3/4" weephole shall be provided near each end of each void. Weepholes shall be placed in straight lines parallel to bents and shall be kept positively open down to and through the bottom forms for breather holes during the casting and through the period of curing of the concrete slabs.

DETAIL OF WEEPHOLES IN VOIDS



DETAIL OF SLAB CONSTRUCTION JOINT KEY



CAMBER DIAGRAM

BRIDGE: RELOCATED RTE. 67 UNDERPASS  
STATE ROAD FROM BONNE TERRE TO FARMINGTON  
ABOUT 2.0 MILES S.E. OF FLAT RIVER  
PROJECT NO. F-254(11)(RTE. 67) STA. 837+00  
ST. FRANCOIS COUNTY

Drawn APRIL 1957 by K.R.W.  
Checked Aug. 1957 by D.B.

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

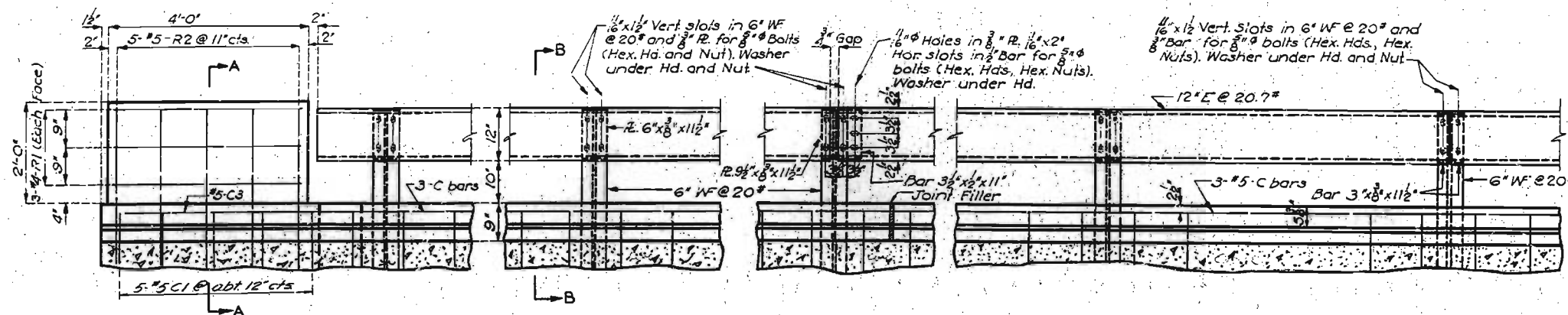
Sheet No. 5 of 6.

NO CONSTRUCTION CHANGES

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# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19		



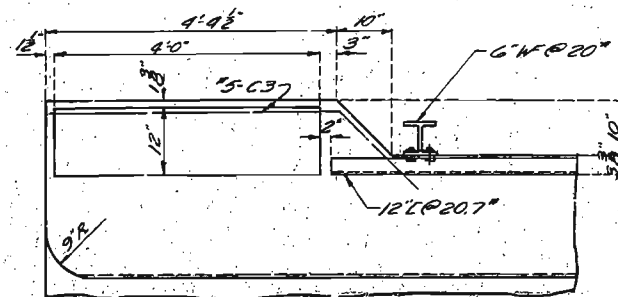
FIXED POST

EXP POST  
TYPICAL RAIL ELEVATIONS

FIXED POST

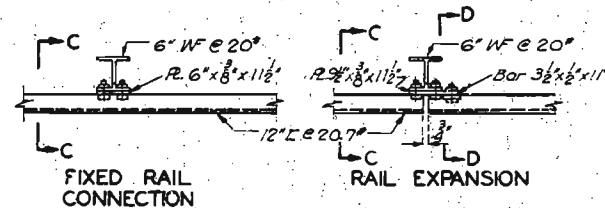
SPLICE POST

Note: Outlets to be centered between railpost. For location of cullets if any, see sheet No. 1 of design plans. C2 bars in curb to be spaced at abt. 12" cts. from end post to end post on bridges having no outlets.



PLAN OF END POST

Note: Omit 9' radius curve on curb at ends of bridge where drain basin is provided on approach pavement



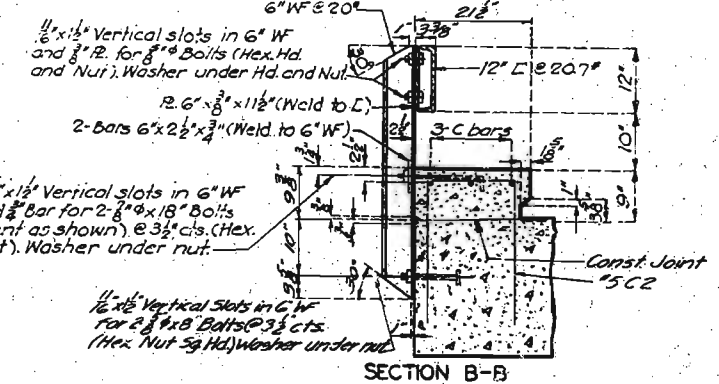
FIXED RAIL CONNECTION

RAIL EXPANSION

RAIL SPLICE

PART SECTION C-C

PART SECTION D-D



SECTION A-A

SECTION B-B

Note: Channel rail to be adjusted for horizontal alignment by use of full size metal shims placed between 6" WF and connection R. shims of 1/8" thickness to be furnished with structural steel. Cost of shims to be included in price bid for other items.

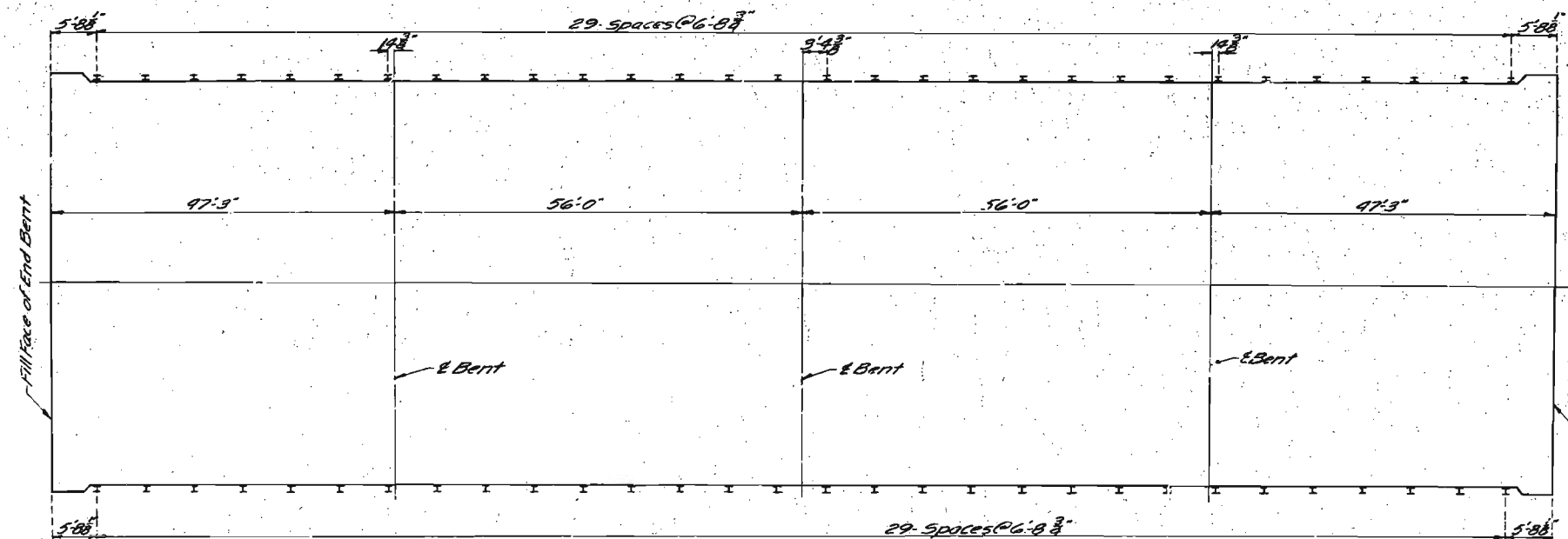


Note: Use bevel as shown for exposed faces of all filled joints

DETAIL OF BEVEL FOR ALL FILLED JOINTS

## GENERAL NOTES:

Top of curbs and end posts to be built parallel to grade. Vertical faces of end posts to be vertical. All exposed edges of end posts to be beveled 1/2". 6" WF posts to be set normal to grade. 12" L Rails shall be fabricated to conform to horizontal and vertical alignment to curb



PLAN OF SLAB SHOWING POST SPACING

## BRIDGE: RELOCATED RTE. 67 UNDERPASS

STATE ROAD FROM BONNE TERRE TO FARMINGTON  
ABOUT 2.0 MILES S.E. OF FLAT RIVER  
PROJECT NO. F-254 (II) (RTE. 67) STA. 837+00  
ST. FRANCOIS COUNTY

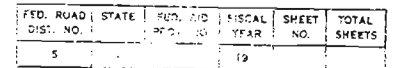
Assembled April 1957 by K.R.W. & J.C.F.  
Checked August 1957 by D.B.

Note: This drawing is not to scale follow dimensions

Sheet No. 6 of 6.

NO CONSTRUCTION CHANGES

000



## FINAL PLANS

Note: All loose, unused or unperfected work was removed in time  
 routines placed on metal bands and turned back to the original  
 was in accordance the work were removed or destroyed and put  
 against General Order No. 100 were from 1st of Series No.  
 2, 3 and 4. 6 used in plan for 1st Series orig. plans.



Design Specifications: A.A.O. No. 155.

Loading H2O-SiO<sub>2</sub>-44 (Future Weeding Surface 18%<sup>2</sup>)

Reinforcing Steel Stress: 20,000 psi.

Concrete Stress: 1400  $\text{psi}$

Concrete for superstructure **was** class "B-1" air entrained (see Special Provision).

Concrete for substructure shall be Class "B" air entrained. If the Contractor desires, he may use Class "B" in lieu of Class "B" for concrete in substructure with payment on the basis of Class "B" concrete.

Where Joint filler is specified on the plans it shall conform with the requirements for Gray Rubber Compound Joints as given in Section 59-22 B of the Standard Specifications.

A rubbed surface finish *was given to* all exposed surfaces of concrete and posts above top of curbs.

Paint: Shop prime. Field connections: surfaces of bolted field connections (Steel to Steel) one coat of red lead and 2 coats of oil. Posts in contact with concrete three coats of red lead. No other paint was used by Contractor. Red lead required shall be furnished by Contractor. Cleanup for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.

Falsework was left in place until the entire superstructure slab was poured and attained the required strength as specified in the Standard Specifications.

Before any falsework was removed, the middle half of slab in each span was relieved of any support from falsework. Removal of falsework then proceeded in each span starting near middle of span and proceeded toward the substructure units.

LOCATION SKETCH

Drawn APRIL 1957 by K.R.W.  
Checked Aug. 1957 by D.B.

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

	SubstP	
Class 8 Concrete	2605	2605
Class 8 Concrete	404	404
Class 8 Concrete	800.3	800.3
Reinforcing steel	4.560	172.200 201.560
Reinforcing steel		13.910 13.910
Class 125% Exp. for Struct.	5.5	5.5
Test Holes	Lin. Ft. 113	113

Note: All excavation for bridge was paid for as Class I Excavation. Quantities of the excavation for structures includes any amount of excavation within limits of Roadway Excavation. (See Special Provisions.) All concrete and reinforcing steel above footings is included in Superstructure quantities.

3.M.#104A E/cr. 847.26-Noil in side of 20" W. D=2' 150' Rt. Sta. 834+75  
(U.S.G.S. Datum)

STATE ROAD PROJECT NO. 10  
ABOUT 10 MILES FROM STATION  
PROJECT NO. 10 STATION  
STATION NO. COUNTY

SUBMITTED BY: J. A. Williams DATE 8-15-1957  
BRIDGE ENGINEER  
APPROVED BY: R. M. Whitton DATE 8-15-1957

CGDC-1034

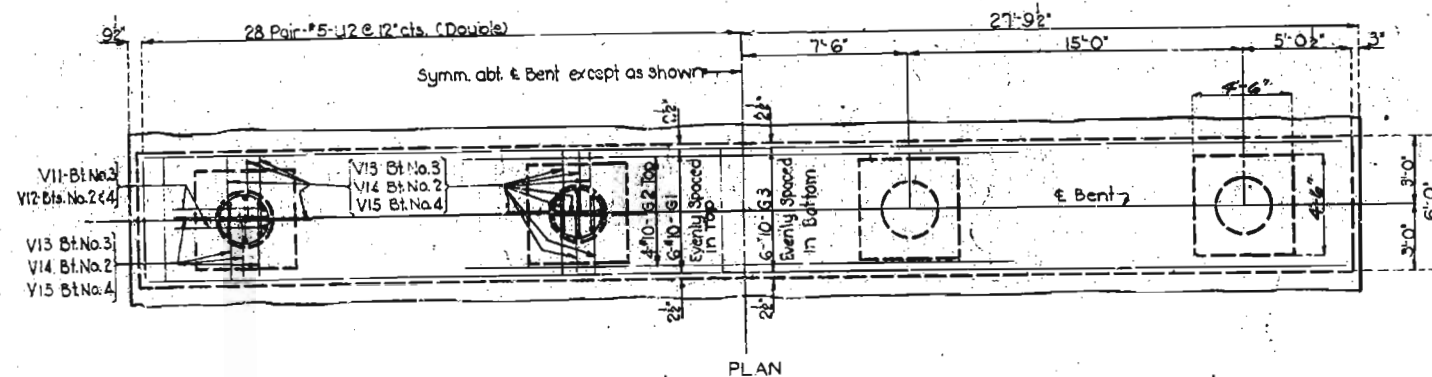
A-144

Sheet No. 1A of 3

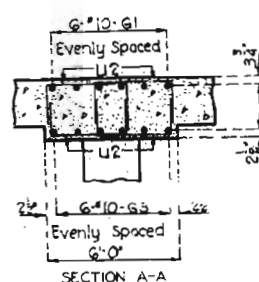
## FINAL PLANS

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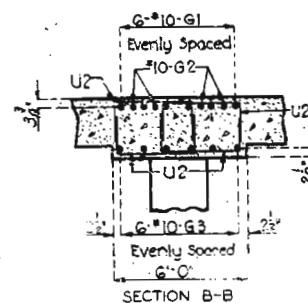
## FINAL PLANS



DETAILS OF INT. BENTS NO. 2, 3 & 4



SECTION A-A



SECTION B-B

[illegible]

FINISHED

Sheet No. 24 of 3

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

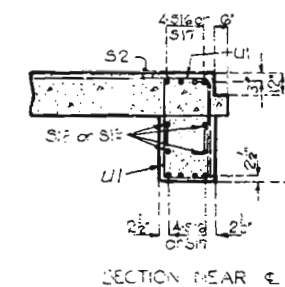
FINAL PLANS

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## FINAL PLANS



BRIDGE RELOCATED RTE 67 UNDER S S  
STATE ROAD FROM BONNE TERRE TO HAMILTON  
ABOUT 20 MILES S.E. OF FLAT RIVER  
PROJECT NO. F-25400(RTE.67) STA. 837+00  
ST. FRANCOIS COUNTY

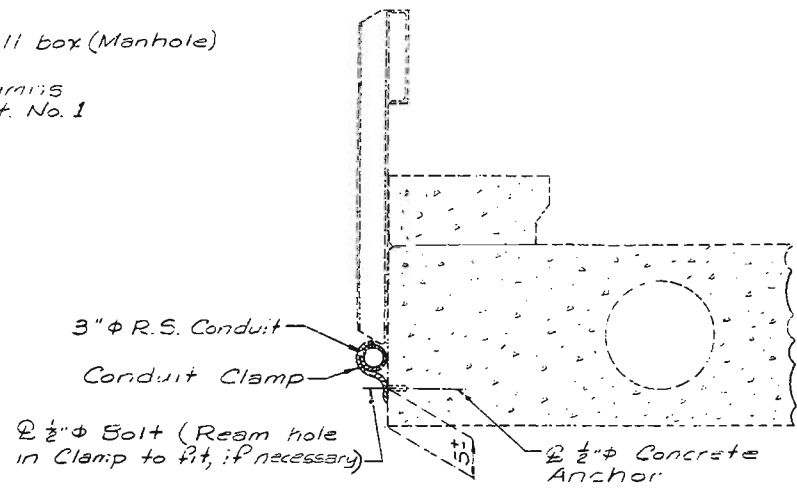
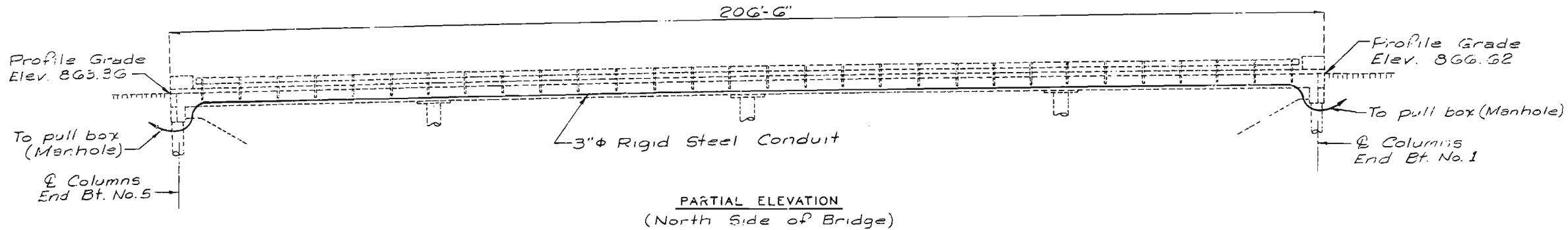
A-144

## FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

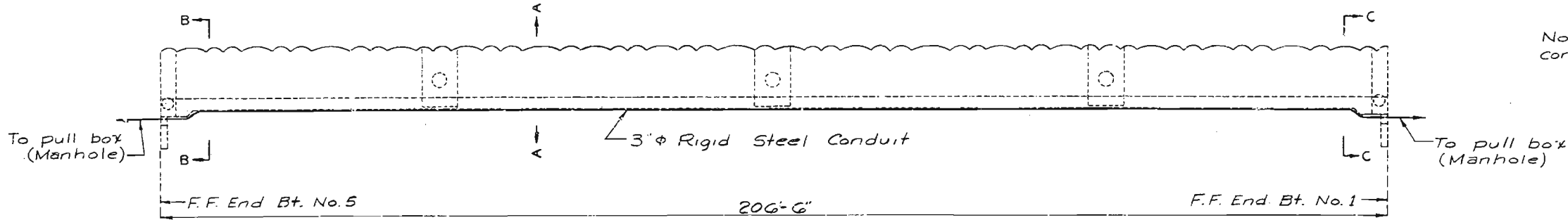
JOB NO. 6-P-67-122

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	20	



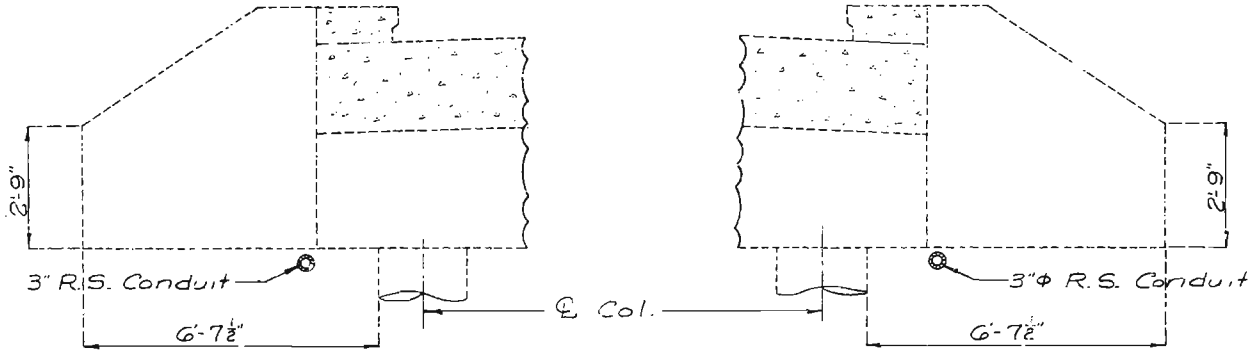
NOTE: Conduit or Clamps shall not come in contact with handrail post.

SECTION A-A



GENERAL NOTES

Conduit shall be 3" Rigid Steel, Galvanized.  
Conduit shall be secured to the Concrete with clamps at about 5'-0" centers.  
Conduit clamps shall be the One Hole Malleable Iron type, Thomas and Butth or equivalent.  
All Conduit clamps shall be Galvanized.  
Concrete Anchors shall be the non-drilling expansion type, equal to Red Head (Phillips Drill Co.).  
The hole shall be pre-drilled to a depth of 2 1/2" with a conventional Carbide Masonry bit.  
The cost of furnishing and erecting the Conduit, Conduit Clamps, Bolts and Concrete Anchors complete in place shall be paid for as Conduit on Bridge.



SECTION B-B

SECTION C-C

BRIDGE: CONDUIT SYSTEM

JOB NO. 6-P-67-122

ST. FRANCOIS

COUNTY

A-144A

DETAILED SEPT. 1975  
CHECKED SEPT. 1975

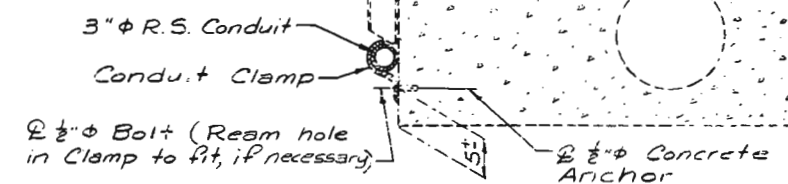
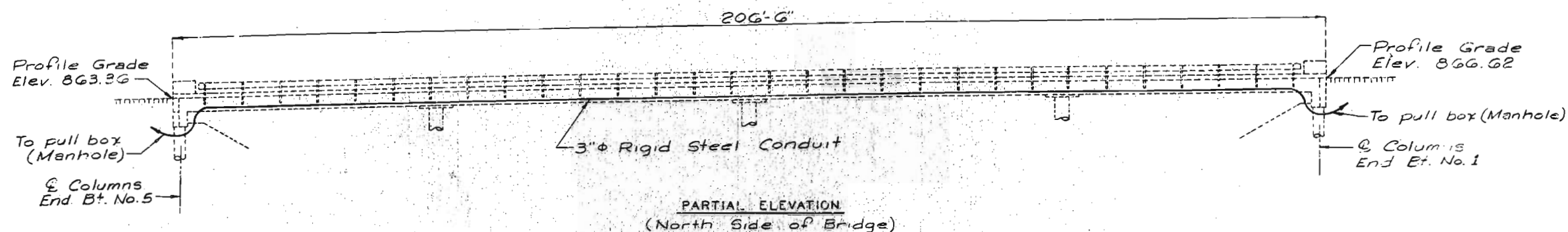
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 1.

440

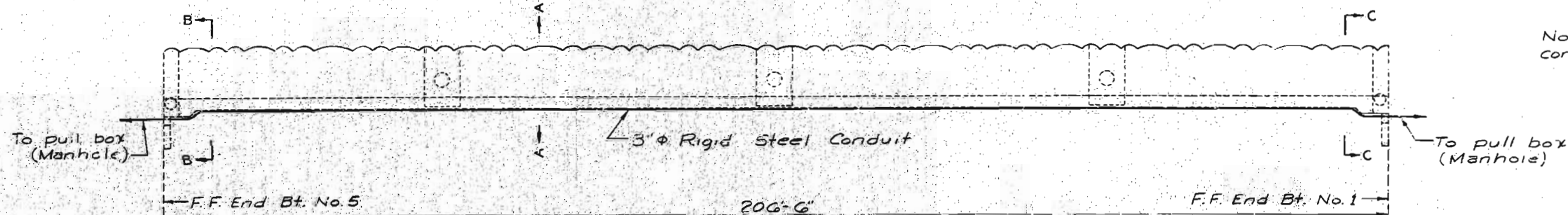
# MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		78		



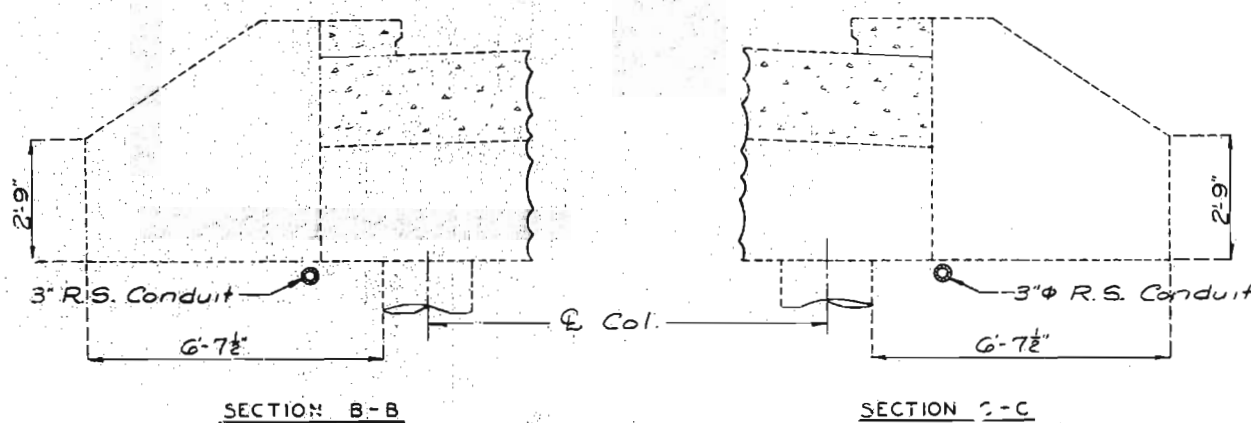
NOTE: Conduit or Clamps shall not come in contact with handrail post.

SECTION A-A



## GENERAL NOTES

Conduit shall be 3" Rigid Steel, Galvanized.  
 Conduit shall be secured to the Concrete with clamps at about 5'-0" centers.  
 Conduit Clamps shall be the One Hole Malleable Iron type, Thomas and Beth or equivalent.  
 All Conduit Clamps shall be Galvanized.  
 Concrete Anchors shall be the non-drilling expansion type, equal to Red Head (Phillips Drill Co.).  
 The hole shall be pre-drilled to a depth of 2 1/8" with a conventional Carbide Masonry bit.  
 The cost of furnishing and erecting the Conduit, Conduit Clamps, Bolts and Concrete Anchors complete in place shall be paid for as Conduit System on Bridge, Lump Sum.



BRIDGE: CONDUIT SYSTEM

JOB NO. 6-P-67-122

ST. FRANCOIS COUNTY

A-144A

DETAILED SEPT. 1975  
 CHECKED SEPT. 1975

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

Sheet No. 1 of 1.

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## FINAL PLANS

GENERAL NOTES:

Design Unit Stresses:

*Traffic Maintained:*

Existing Work:

**Reinforcing Steel:**

**Joint Filler:**

*Roadway Surface:*

27'-0 1/2"

Symm. abt. & Roadway except as shown

Existing rail, rail posts and curb to be removed

Remove existing seal coat

Existing conduit to remain in place

\*Concrete Wearing Surface (See Special Provisions)

Scarify existing slab 1/4" (Min.)

Proposed Safety Barrier Curb

Repair Concrete Deck (Half-Sole)

Existing curb to be removed

SECTION THRU SLAB

\*1 1/4" (Min.) latex modified concrete or 2 1/4" (Min.) low slump concrete

Saw-cut or chip vertically first 1/2" of all deck repair.

\*Concrete Wearing Surface (See Special Provisions)

Existing Slab

Scarify existing slab 1/4" (Min.)

Existing Depth

Existing Reinforcement

Repair Concrete Deck (See Special Provisions)

HALF-SOLED AREA

6"

Cut existing bar to this line

Existing bar use in place

Existing bar to be removed

Cut old bars 1" below top of existing slab. (See Spec. Prov.)

Remove existing seal coat

Note: All existing longitudinal curb reinforcement to be removed.

DETAILS OF EXISTING CURB REMOVAL

Note: All existing curb reinforcement outside the limits of the proposed safety barrier curb shall be cut 1" below top of existing slab. Areas of existing slab outside the limits of the proposed safety barrier curb shall be covered with either 1 1/4" latex modified concrete or 2 1/4" low slump concrete. See Special Provisions.

ESTIMATED QUANTITIES		
ITEM		TOTAL
Curb Removal (Bridges)	Lin. Ft.	413
Seal Coat Removal (Bridges)	Sq. Ft.	10,738
Safety Barrier Curb	Lin. Ft.	413
Repairing Concrete's Deck (Half Soling)	Sq. Ft.	1,203
*Concrete Wearing Surface (Low Slump)		
See Special Provisions	Sq. Yd	1,214
Removal and Storage of Existing Bridge Rail	Lin. Ft.	405

STD.  
STD. 706-35  
A-144R

DATE: 10/30/86

Sheet No. 1A of 2.

DESIGNED *JUNE 1986*  
 DETAILED *JUNE 1986*  
 CHECKED *JUNE 1986*

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

Note: Sequence of repairs shall be in alphabetical order.  
Zones with the same letter designation may be repaired at the same time.  
Any repair in the remainder of the bridge that is within 4'-6" of Zone A shall be completed before removing old concrete in Zones A.

# MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PROJ. NO.	SHEET NO.
MO.		11
SEC./SUR. 9	TWP. 36N	RGE. 5E

## GENERAL NOTES:

Design Specifications: A.A.S.H.T.O. - 1977 and Interims thru 1985, Load Factor Design.

## Design Unit Stresses:

Class B1 Concrete  $f'_c = 4,000$  psi  
Reinforcing Steel (Grade 60)  $f_y = 60,000$  psi

## Traffic Maintained:

One lane of traffic in each direction to be maintained during construction.

## Existing Work:

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

Bars 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.

## Reinforcing Steel:

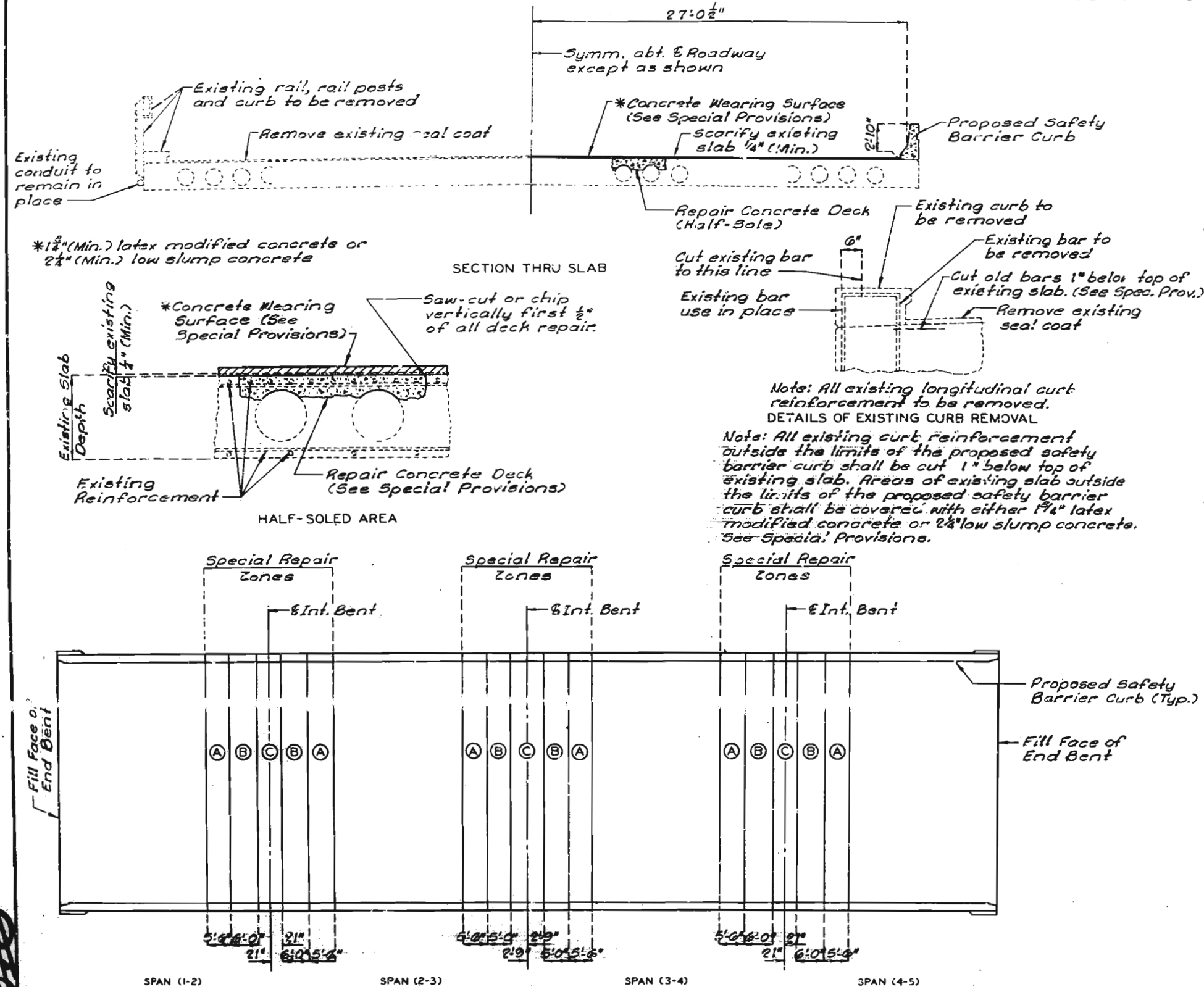
Minimum clearance to reinforcing steel shall be  $1\frac{1}{2}$ " unless otherwise shown.

## Joint Filler:

All joint filler shall meet the requirements of Std. Spec. 1057.2.4, except as noted.

## Roadway Surface:

Roadway surfacing adjacent to bridge ends to match existing concrete deck plus  $1\frac{1}{2}$ "  $\pm$  or 2"  $\pm$ .



Note: All existing longitudinal curb reinforcement to be removed.

## DETAILS OF EXISTING CURB REMOVAL

Note: All existing curb reinforcement outside the limits of the proposed safety barrier curb shall be cut 1" below top of existing slab. Areas of existing slab outside the limits of the proposed safety barrier curb shall be covered with either 1 1/2" latex modified concrete or 2 1/2" low slump concrete. See Special Provisions.

ESTIMATED QUANTITIES		
ITEM		TOTAL
Curb Removal (Bridges)	Lin. Ft.	413
Seal Coat Removal (Bridges)	Sq. Ft.	10,738
Safety Barrier Curb	Lin. Ft.	413
Repairing Concrete Deck (Half-Soling)	Sq. Ft.	918
*Concrete Wearing Surface (See Special Provisions)	Sq. Yd.	1,214
Removal and Storage of Existing Bridge Rail	Lin. Ft.	405

Note: Sequence of repairs shall be in alphabetical order. Zones with the same letter designation may be repaired at the same time.

Any repair in the remainder of the bridge that is within 4'-6" of Zone A shall be completed before removing old concrete in Zones A.

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

SEE FINAL PLANS

Sheet No. 1 of 2.

## BRIDGE OVER ROUTE 67

STATE ROAD FROM SONNE TERRE TO FARMINGTON

ABOUT 2.0 MILES S.E. OF FLAT RIVER

PROJECT NO. F-FG-32-3(6) STA. 914+17.89±

JOB NO. 6-P032 755

ST. FRANCOIS

RTE. 32

COUNTY

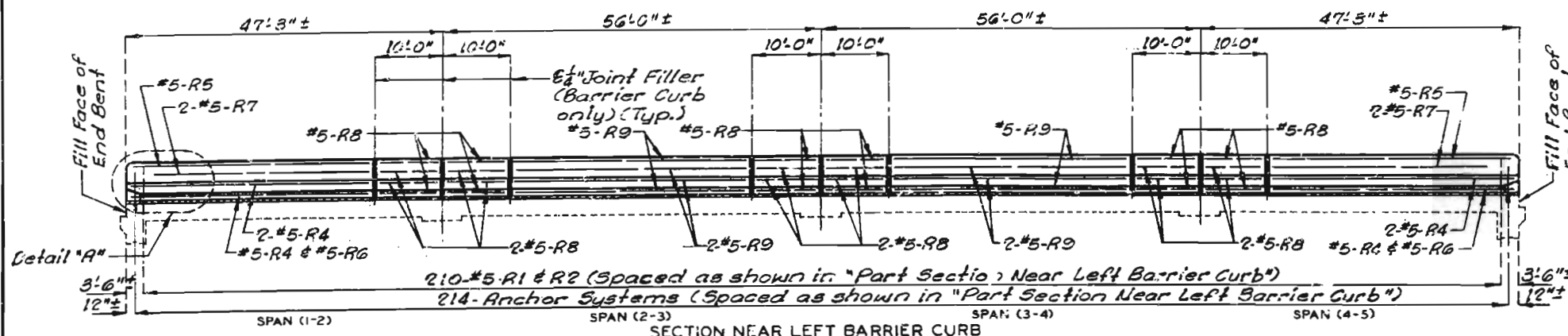
DATE 10/30/86

STD.
STD. 706-35
A-144R

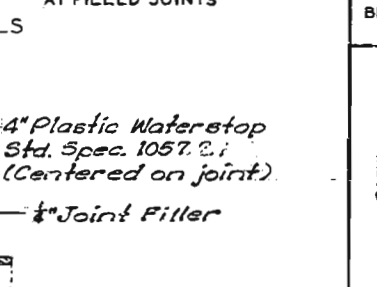
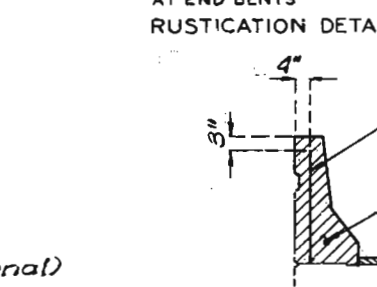
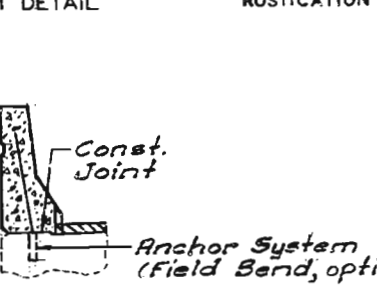
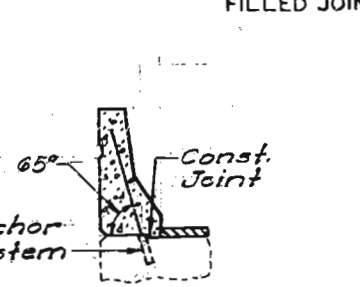
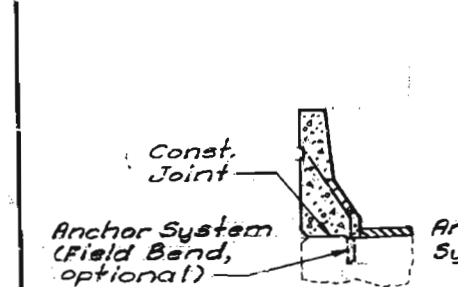
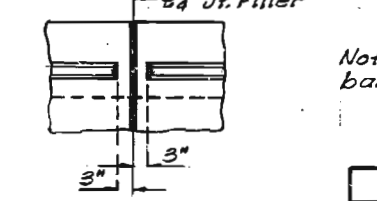
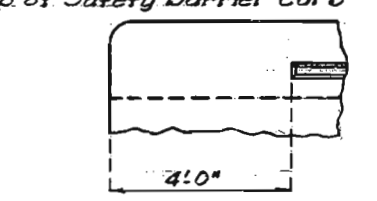
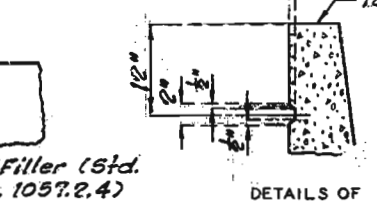
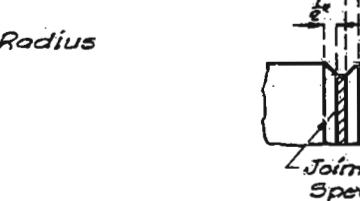
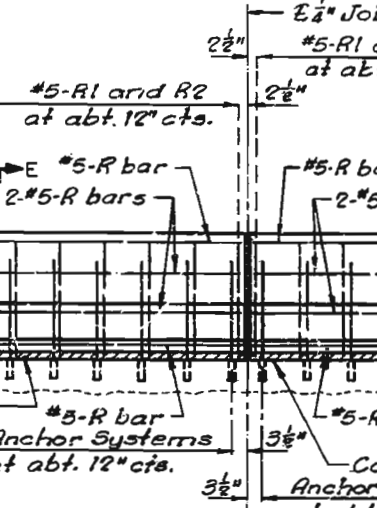
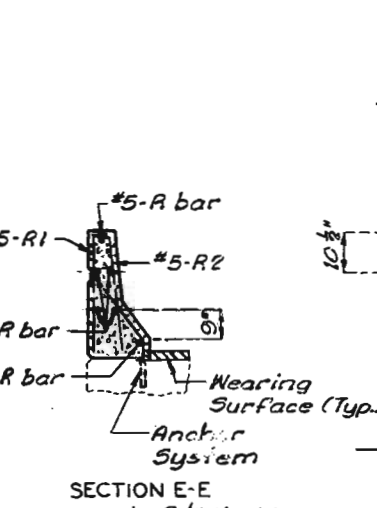
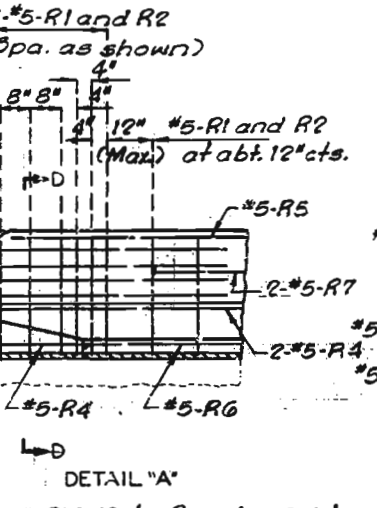
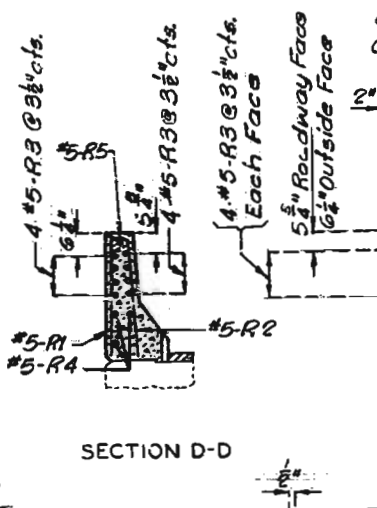
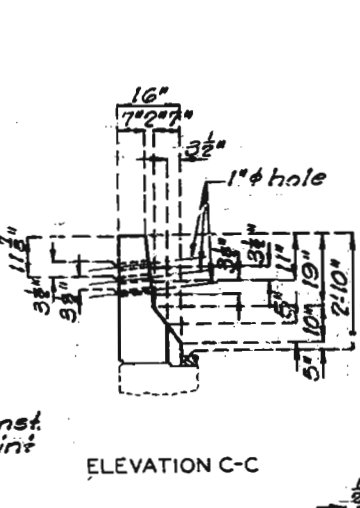
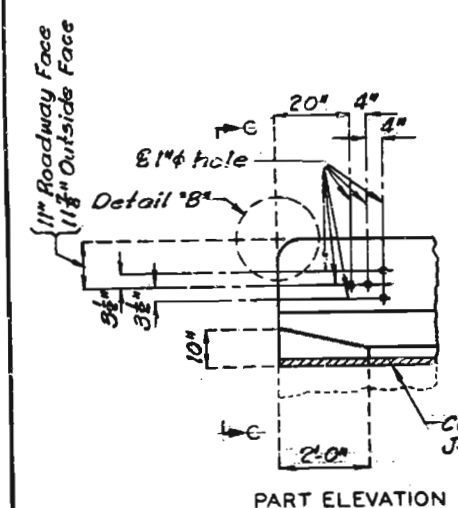
DESIGNED JUNE 1986  
DETAILED JUNE 1986  
CHECKED JUNE 1986

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**BARRIER CURB NOTES:**  
 Top of barrier curb to be built parallel to grade with barrier curb joints (except at end bents) normal to grade. All exposed edges of barrier curb shall have  $\frac{1}{2}$ " radius or  $\frac{1}{4}$ " bevel unless otherwise noted.  
 When the barrier curb is bid by linear feet, the contract unit price shall include the cost of all concrete and reinforcement, complete in place. Concrete in the safety barrier curb shall be Class B1.  
 Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top face of the curb from fill face to fill face.



Note: The contractor shall use one of the anchor systems listed in the Job Special Provisions for the Safety Barrier Curb. These anchor systems shall be installed according to the manufacturer's specifications, except that an epoxy coated  $\frac{5}{8}$ " Grade 60 reinforcing bar 2'-6" long shall be substituted for the threaded rod stud and if the Kelibond/Keligrout in resin bonding anchor system is used the minimum embedment in old concrete shall be 6".  
 Cost of furnishing and installing the anchor system complete in place shall be included in the price bid per linear foot of safety barrier curb.

Note: Plastic waterstop shall be placed in all safety barrier curb filled joints. Cost of plastic waterstop complete in place to be included in contract unit price for safety barrier curb.

Note: All bars shall be epoxy coated.  
 2 additional R8 bars are included for testing purposes.

Note: Inside diameter of all bends shown for R1 & R2 bars shall be  $\frac{1}{2}$ ". All other bars are straight.  
 Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed for fabricator's use (nearest inch). Actual lengths are measured along centerline bar to the nearest inch.  
 Payweights are based on actual lengths.

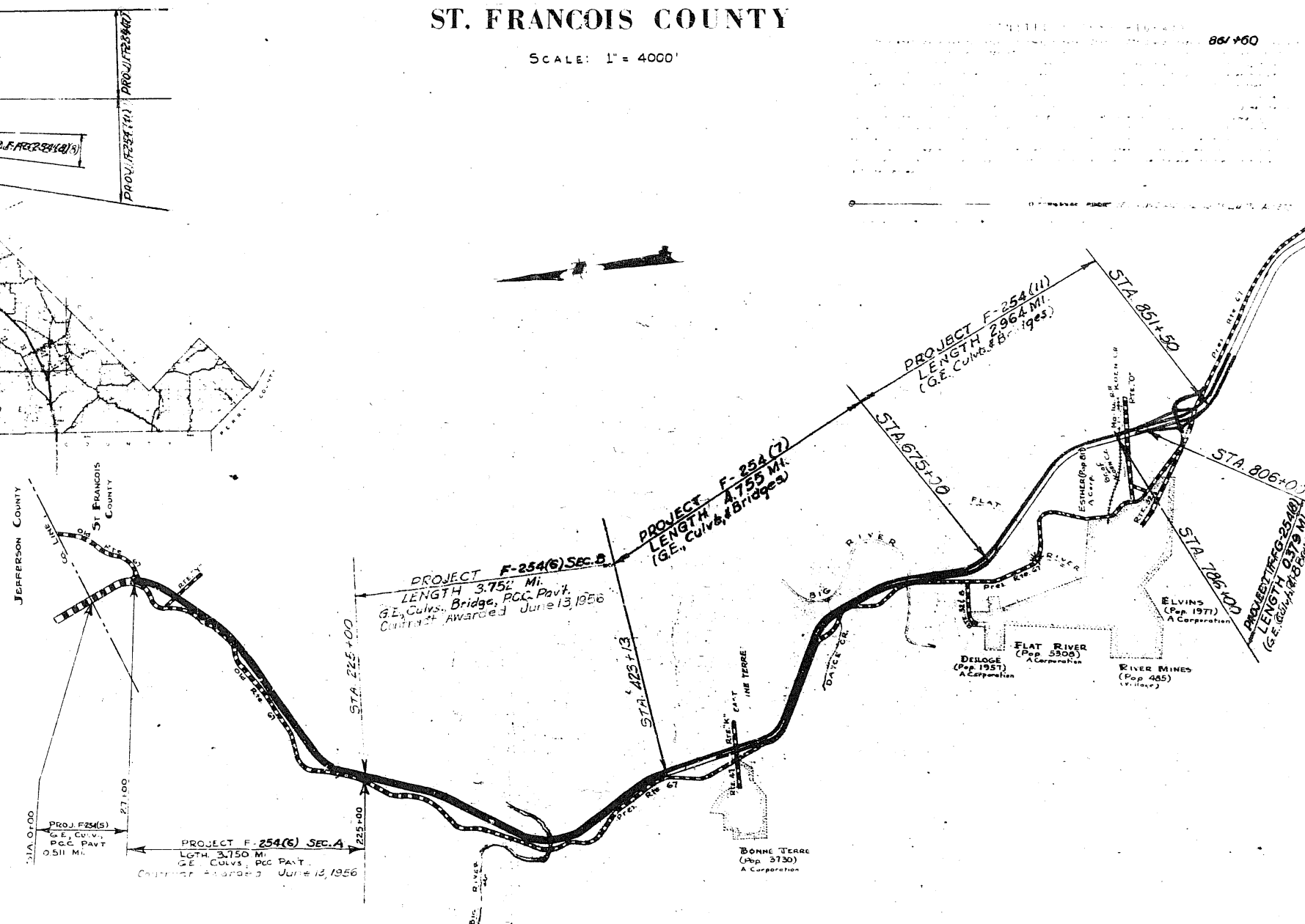
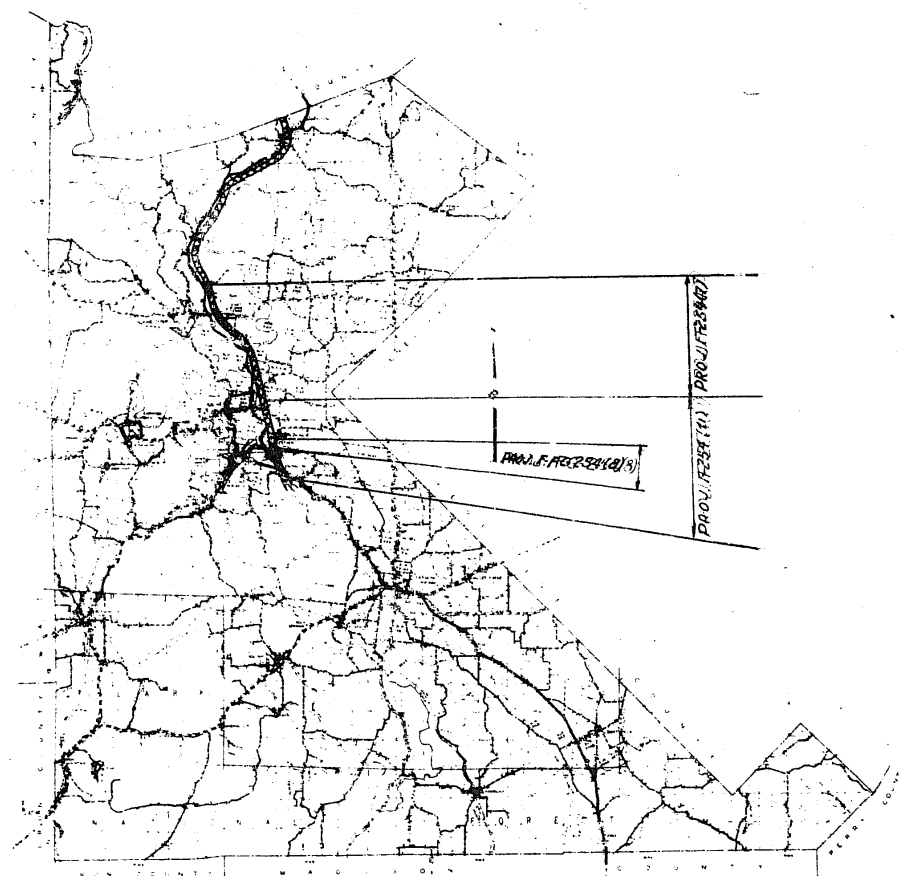
Note: Use a minimum lap of 17" for #5 horizontal barrier curb bars.  
 The cross-sectional area above the slab = 2.43 sq. ft.

COMPLETE BILL OF REINFORCING STEEL						
BENDING DIAGRAM	NO. REQ'D	SIZE	MARK	LOCATION	NOMINAL LENGTH	ACTUAL LENGTH
R1	444	5 R1		Barrier Curb	2'-10"	2'-9"
	444	5 R2		Barrier Curb	2'-10"	2'-9"
R2	32	5 R3		Barrier Curb	5'-0"	5'-0"
	12	5 R4		Barrier Curb	37'-0"	37'-0"
R1	4	5 R5		Barrier Curb	36'-8"	36'-8"
	4	5 R6		Barrier Curb	35'-2"	35'-2"
R2	8	5 R7		Barrier Curb	33'-3"	33'-3"
	74	5 R8		Barrier Curb	9'-9"	9'-9"
R1	24	5 R9		Barrier Curb	35'-9"	35'-9"
Note: All bars shall be epoxy coated.						
2 additional R8 bars are included for testing purposes.						



SCALE: 1" = 4000'

ST FRANCIS  
STATE ROUTE NC  
67  
PROJECT NC  
F-254(11)



### CONVENTIONAL SIGNS

STATE AND NATIONAL LINE		LEVEE	
COUNTY LINE		CULVERTS	
CITY, VILLAGE OR BOROUGH		DROP IN	
TOWNSHIP LINE		TROLLEY POLE	
SECTION LINE		POWER POLE	
GRANT LINE		TELEPHONE OR TELEGRAPH POLE	
FENCE LINE		MAISH	
GUARD RAIL		HEDGE	
UNFENCED PROPERTY			
RIGHT-OF-WAY LINE		GROUND ELEVATION	
TRAVELED WAY			
RAILROADS		GRADE ELEVATION	
RETAINING WALL		SURFACE LINE	
BASE OR SURVEY LINE		GRATE LINE	

SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF ENGINEER  
MISSOURI STATE HIGHWAY COMMISSION

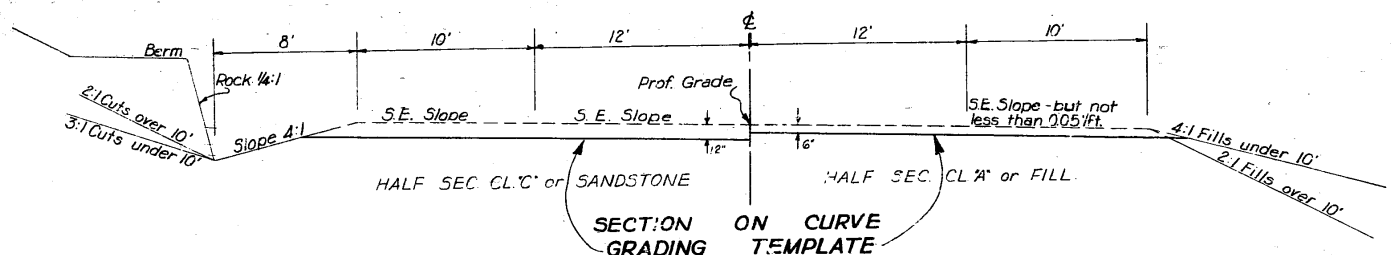
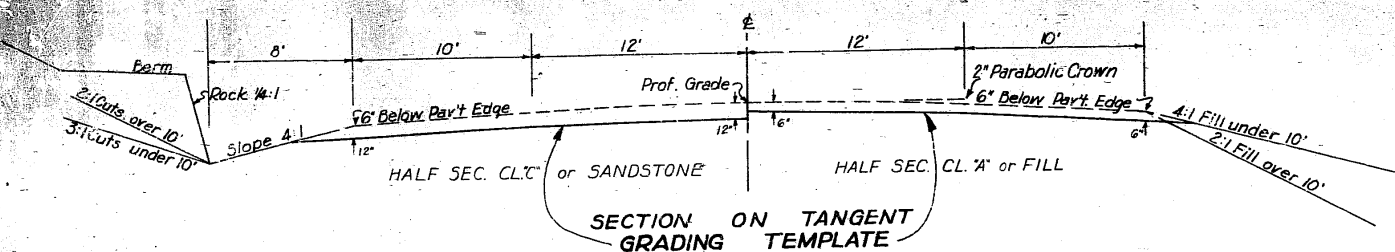
RECOMMENDED FOR APPROVAL \_\_\_\_\_

DISTRICT ENGINEER  
PUBLIC ROADS ADMINISTRATION  
FEDERAL WORKS AGENCY

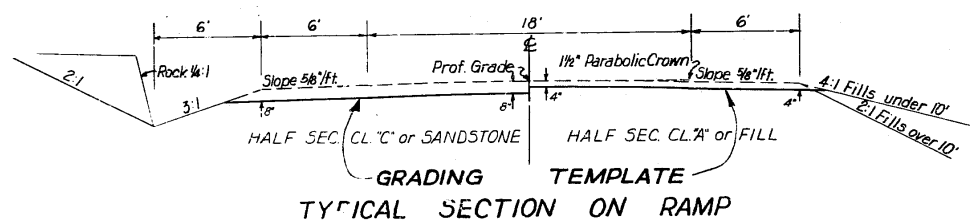
APPROVED BY \_\_\_\_\_

DIVISION ENGINEER  
PUBLIC ROADS ADMINISTRATION  
FEDERAL WORKS AGENCY

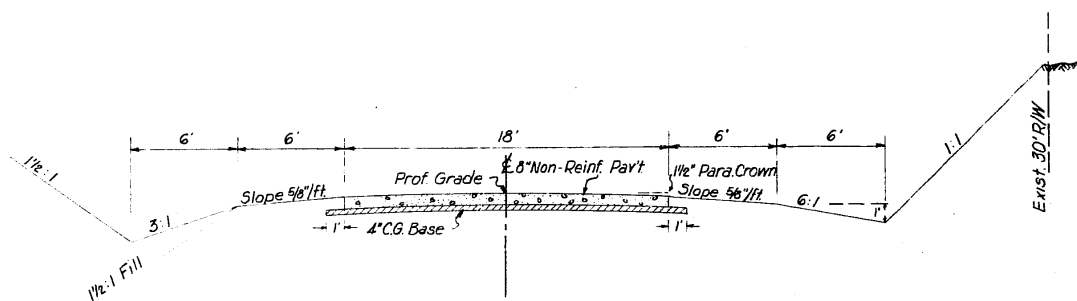
STATE	FEDERAL PROJECT No. & SER.	RE	SHEET
5 MD.	F-254		
COUNTY	ROUTE	SEC.	
6 ST. FRANCOIS	67		



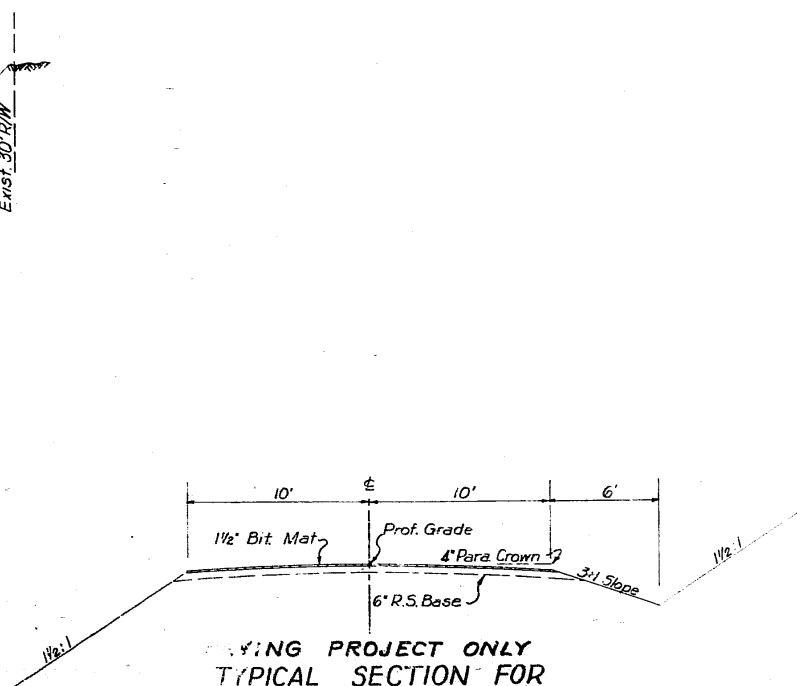
TYPICAL SECTIONS ON RELOCATION RTE. 67



TYPICAL SECTION FOR REGRADING RTE. 67  
STA. 905+50 TO 910+50  
PAVING PROJECT ONLY



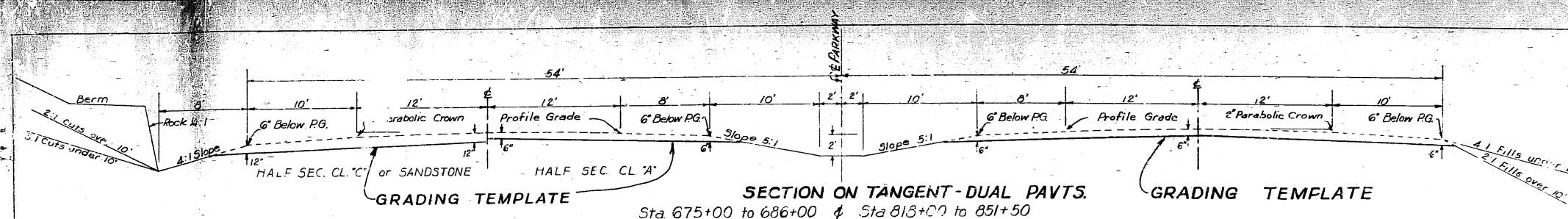
TYPICAL SECTION FOR TEMPORARY BY-PASS  
(STA. 905+00 TO 911+00)  
AND SIDE ROAD APPROACHES  
PAVING PROJECT ONLY



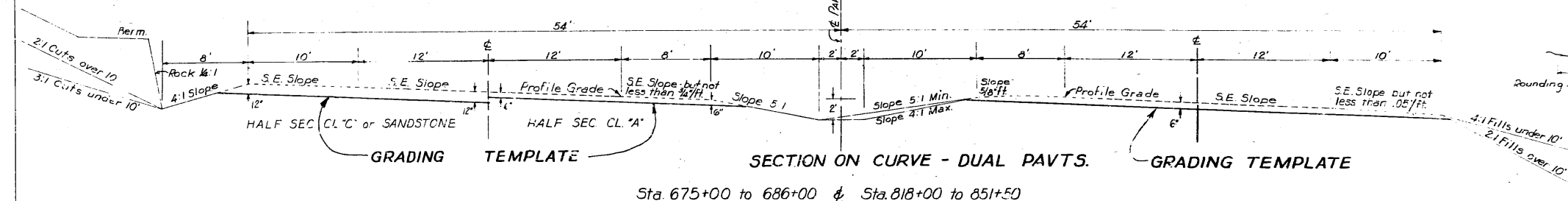
PAVING PROJECT ONLY  
TYPICAL SECTION FOR  
OUTER ROADWAY  
STA. 842+ TO 844+

TYPICAL SECTIONS  
ROUTE 67  
PROJECT F-254(1)  
ST. FRANCOIS COUNTY

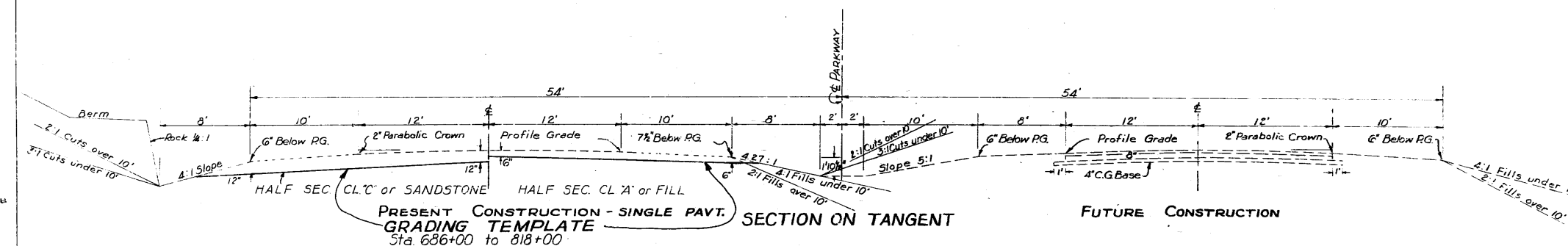
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.
5	MO.	F-254	
		COUNTY	ROUTE
6		ST. FRANCOIS	67



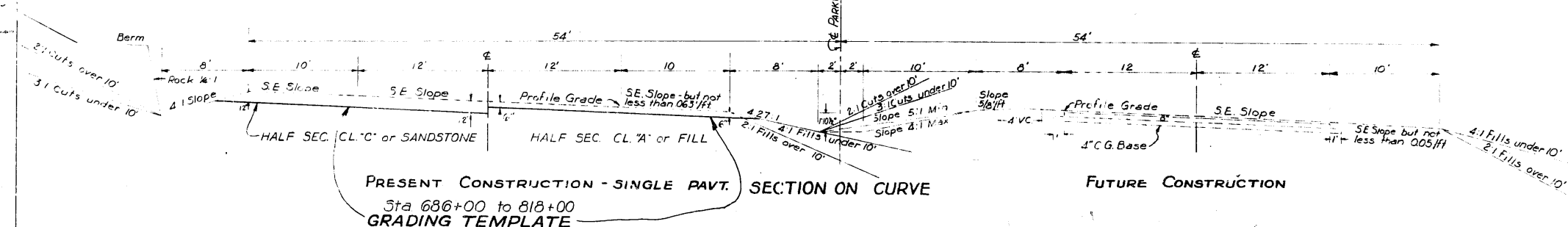
SECTION ON TANGENT-DUAL PAVTS. Sta 675+00 to 686+00 & Sta 813+00 to 851+50



SECTION ON CURVE - DUAL PAVTS. Sta 675+00 to 686+00 & Sta 813+00 to 851+50

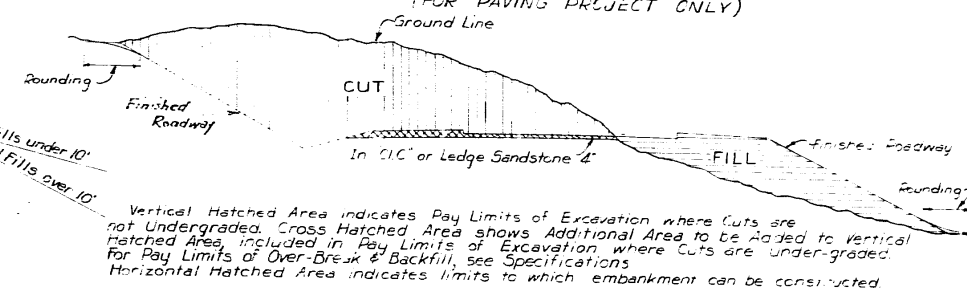


PRESENT CONSTRUCTION - SINGLE PAVT. Sta 686+00 to 818+00

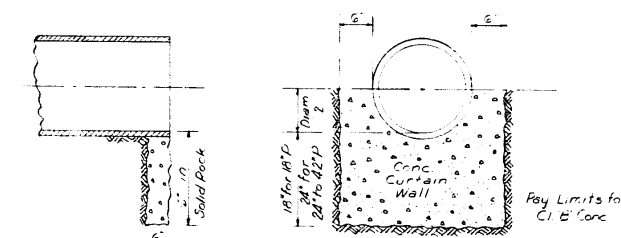


SECTION ON CURVE FUTURE CONSTRUCTION

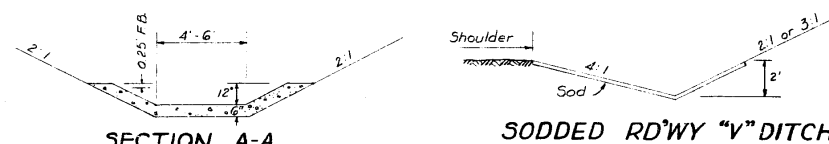
# DETAILS OF TYPICAL PAVEMENT SECTION (FOR PAVING PROJECT ONLY)



SKETCH SHOWING EXCAVATION PAY LIMITS



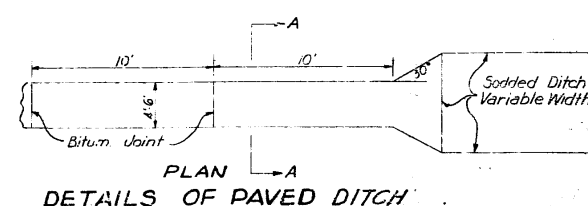
DETAILS OF CURTAIN WALL (Not to be formed)



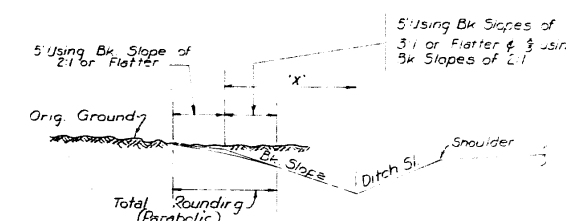
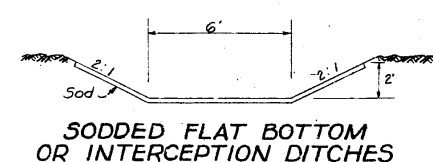
8' PAVED DITCH (CHG. CHANGE)

## GENERAL NOTES

For details of superelevation and widening of horizontal curves, all pavement appurtenances, drainage items, etc., see other drawings. In transitioning from one cut or fill slope to another, use a 25' transition beginning at a point 25' back along that which would normally be the flatter slope and ending the transition at the actual point where the steeper slope is required. If the actual limits requiring a steeper slope is less than 25' in length, do not change to the steeper slope. All information shown on these Typical Sections is for the purpose of indicating general design and construction details. Actual construction of roadway widths, slopes, depths and type of ditches, undergraded cuts, and other features, shall conform to the details shown on Cross Sections and Plan-Profile sheets or as directed by the Engineer.



NOTE Cost of Bituminous Joints to be included in Bid Price on Paved Ditch



PARABOLIC ROUNDING REQUIRED AT TOP OF ROADWAY BACKSLOPES AND AT TOE OF ROADWAY FILL SLOPES

## TYPICAL SECTIONS 44' & 108' GRADED EARTH

PG-254(18) ROUTE 67-PROJ. F-254(11) ST. FRANCOIS CO.



LOCATION BONNE TERRE TO LEADINGTON

TYPE GRADED, EARTH, CULVERTS & BRIDGES

## GENERAL SUMMARY

932+00	1479'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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X-ROAD PIPE CULVERTS										
STA.	SKW	12'	15'	18'	24'	30'	36'	42'	X-SEC. 24'	C13
684+50					64					11.0
686+52	25° L.A.					125				30.0
692+45	45° L.A.			4		113				28.5
731+10	25° R.A.			8	111					*75.0
737+70				20						
746+00				61						5.0
753+90					79					66.0
756+90	30° L.A.			4			114			*81.0
806+00				64						22.0
820+25		64								11.0
823+35	45° L.A.						213			*27.0

823+70		22	6.9
828+00	45° LA	42	16.2
828+80	45° RA	49	16.2
833+60		20	3.0
839+25		12	6.0
840+00	30° RA	66	25.0
842+90		38	3.0
846+00	30° RA	74	25.0
909+50		66	21.0
930+00		56	13.5
1+00	10° LA		110 13.5
TOTALS		277 278 173 130 238 114 213 110	759.0
DROP INLETS			

STA.	Loc.	ST'D	SIZE	"D"	C/B	Rem't
684150	E	EE	3'x2'	2'-6"	1.11	109
620125	E	E	3'x2'	2'-0"	0.83	67
823170	E	E	3'x2'	2'-6"	0.93	79
828100	RD. CR.	E	3'x2'	2'-0"	0.83	67
853100	LP. CR.	E	3'x2'	2'-0"	0.83	67
834125	E	E	3'x2'	2'-3"	0.88	69
840100	E	E	3'x2'	2'-3"	0.88	69
846100	E	E	3'x2'	2'-3"	0.88	69

TOTALS		717	596
PERMANENT BARRICADES			
STA.	LOC.	NO.	REMARKS
769180	RT.	1	County Road
769180	LT.	1	County Road
TOTAL		2	

PRIN. STEEL	C.I. 3	REMARKS
18530	960.0	BUILT IN SECTIONS & MODIFIED
28730	744.0	BUILT IN SECTIONS & MODIFIED ~ RT. HOWL ON 25" DEEN
8270	135.5	BUILT IN SECTIONS & MODIFIED
22330	477.0	BUILT IN SECTIONS & MODIFIED ~ RT. HOWL 90° to E of Box LT. HOWL SEWED 55° from line 90° to E of box
10300	123.5	BUILT IN SECTIONS & MODIFIED
2230	34.0	BUILT IN SECTIONS & MODIFIED ~ EXTENSION LT.
91050	1374.0	

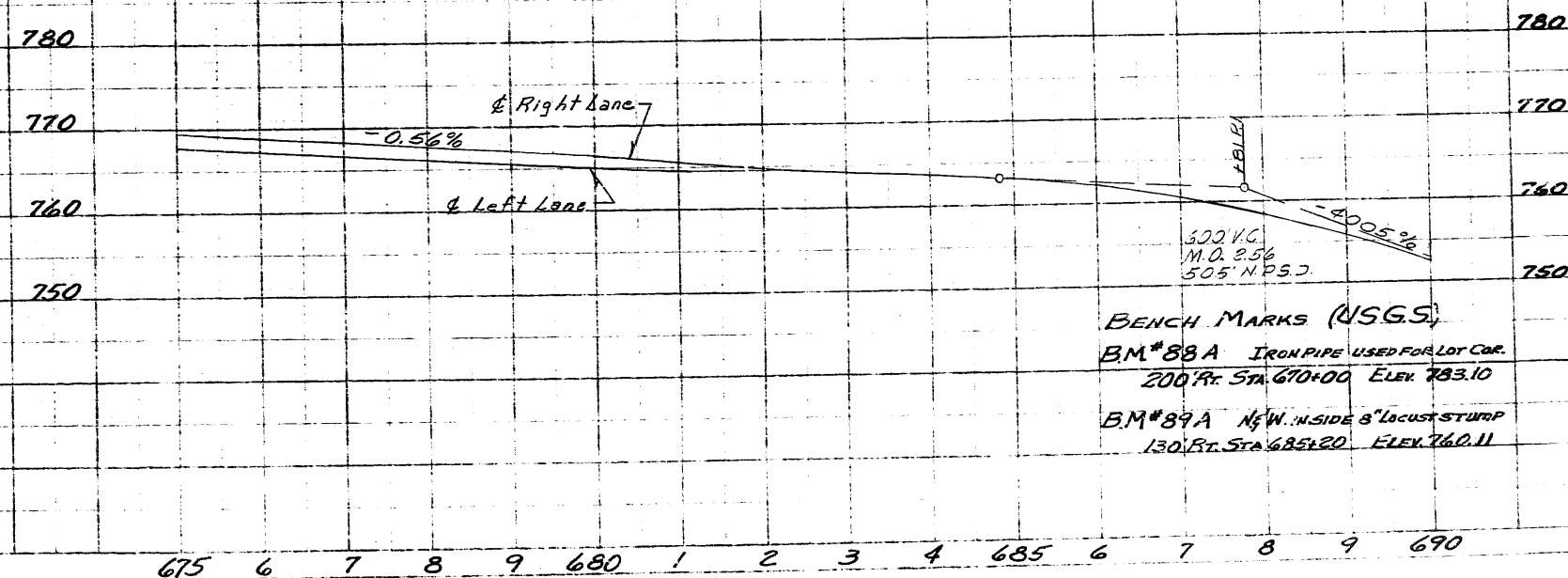
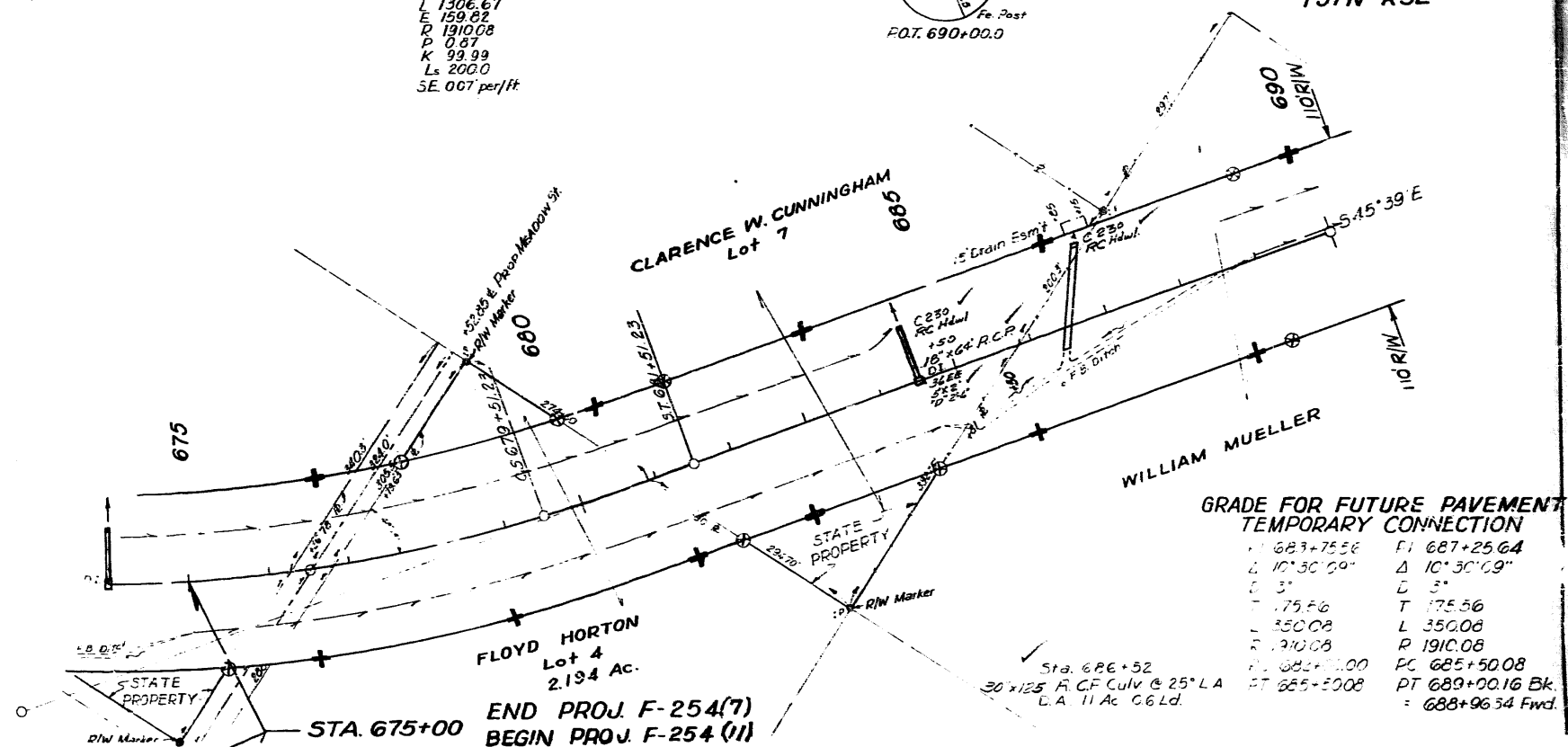
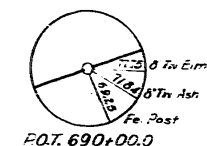
1-RC-R/L	0.87	70	E.D.I. - Conn. to 42" Pipe
1-RC-L/L	0.87	70	D.I. in Rt. D.I. Line
1-RC	0.64	52	D.I. in Lt. D.I. Line
1-RC-L/L	0.86	69	Pipe 5' Hardly Rt. D.I. Line - Conn. to 8" x 8" Box Culv. to Rt. 2
1-RC-L/L	0.86	69	Conn. to 8" x 8" Box Culv. - 7' Lt
1-RC-L/L	0.86	69	E.D.I.
1-RC-L/L	0.86	69	100' Rt of E under Co. Rd - *computed (added pipe)
1-RC-L/L	0.86	69	E.D.I.
1-RC-L/L	0.86	69	100' Rt. of Balise. Rte. 27
1-RC-L/L	0.86	69	30' Rt. of Balise. Rte. 7
2-RB	2.12	224	Station N.S. Main
	30.80	2446	

3107

35-A	REMOVAL OF EXIST. STRUCT.	L. SUM	7
37-A	FERTILIZING & MULCHING	ACRE	8.0
37-B	SODDING	S.Y.	713
60-A	RELOCATING GAS TRANSMISSION PIPE LINE	L. SUM	1
BRIDGE @ STA. 707+80.0 (DWG. No. L-664)			
1-G	CLASS 1 EXCAVATION	C.Y.	281.5
1-H	CLASS 2 EXCAVATION	C.Y.	523.5
16-B-I	CL. B CONCRETE (SUPER-STRUCT.)	C.Y.	280.8
16-B	CL. B CONC. (SUB-STRUCT.)	C.Y.	483.4
17-B	FAB. STRUCT. STEEL BEARINGS	LB.	8030
17-B	FAB. STRUCT. S. (HANDRAIL)	LB.	17760
19-A	REINFORCING STEEL	LB.	156430
20-A	REINFORCING STEEL STRUCT.	LB.	1

19-A	REINFORCING STEEL	12	20,000
	CONTINGENT ITEMS		
	CLASS 1 EXCAV + 25 %	C.Y.	55
	TEST HOLES	L.F.	13

Pl. 673+40.00  
 Δ 45°12' Lt.  
 D 3°  
 T 895.44  
 L 1306.67  
 E 159.82  
 P 191008  
 R 0.87  
 K 99.99  
 Ls 200.0  
 SE 007° per/ft









WATSON FARMS COMPANY'S SECOND SUBD.

PRESTON R. AGNEW ET AL  
Lot 33

PI. 760+56.35  
Δ 38°38' E;  
D 2°  
T 1004.22  
L 1931.67  
E 170.90  
R 2864.93  
S.E. 0.05/ft.

JOHN PIPKIN  
Lot 17

JOHN WRIGHT

VELVA K. KENNON  
Lot 2

MORRIS HOPKINS  
Lot 9

Lot 16  
STATE PROPERTY

TONY WRIGHT

O. D. RHODES

MAE NUNLEY SMITH  
Lot 10

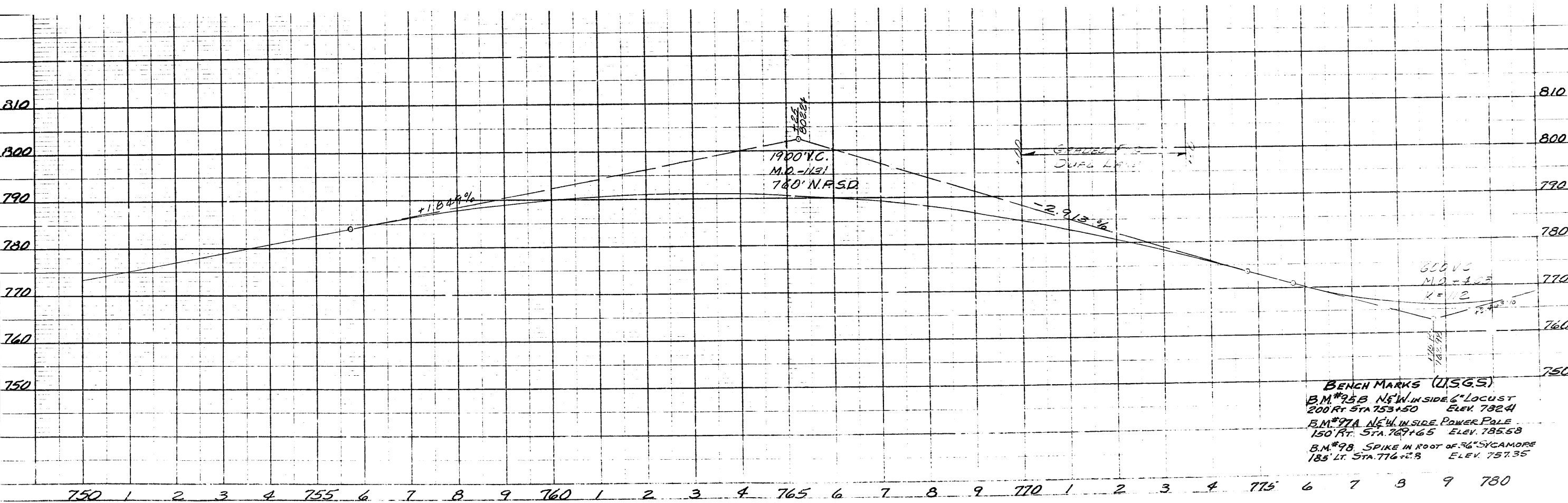
WATSON FARMS COMPANY'S DAVIS PLACE

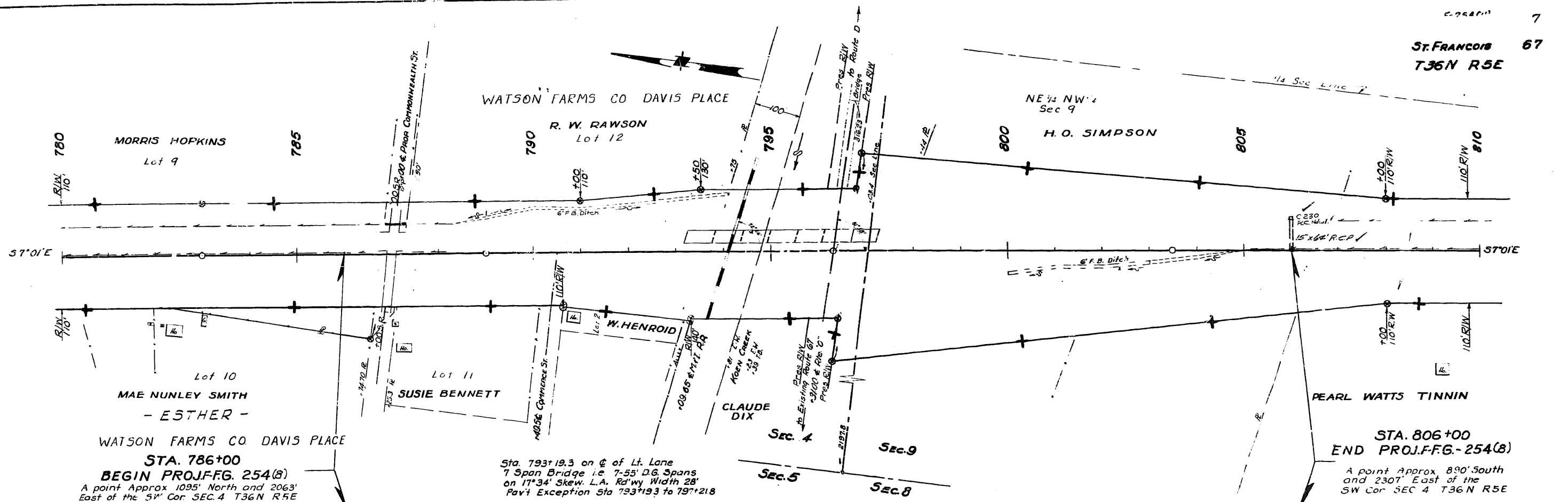
Sta. 776+53.6 Triple (12x8') R.C.  
Box Culv. 90' to 6' No Floor  
D.A. 3.2 S. M. See Brd Dwg. L-665

Lot 31  
WILLIAM F. STOTLER  
& WIFE

ELMER BLOOM

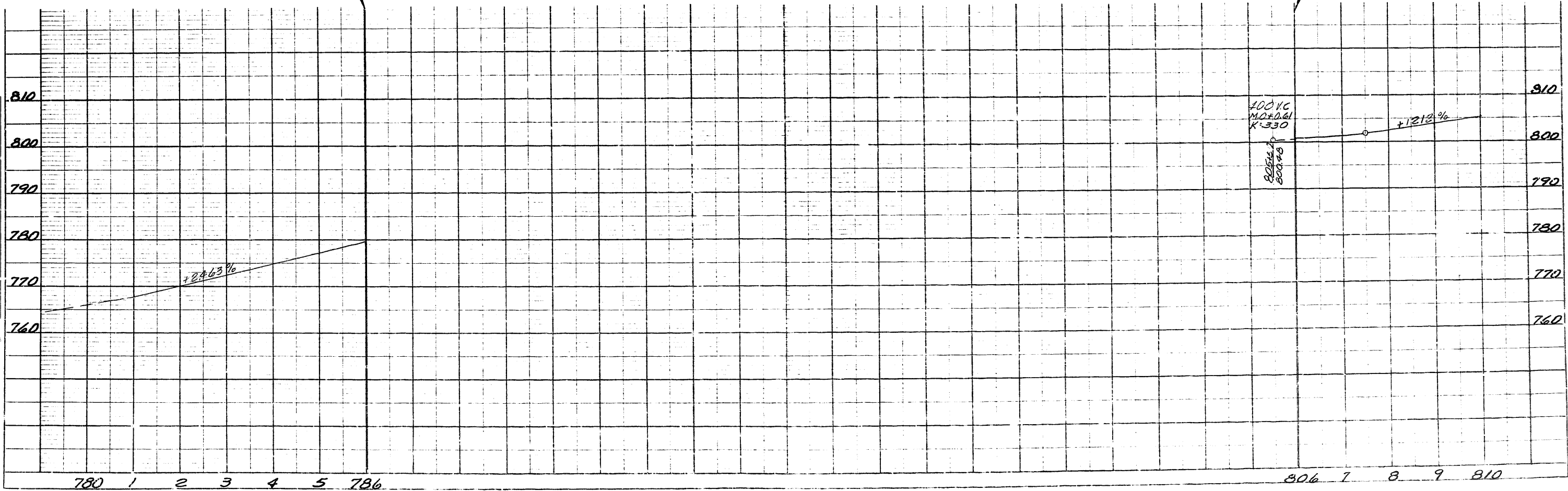
WATSON FARMS COMPANY'S FIRST SUBD.



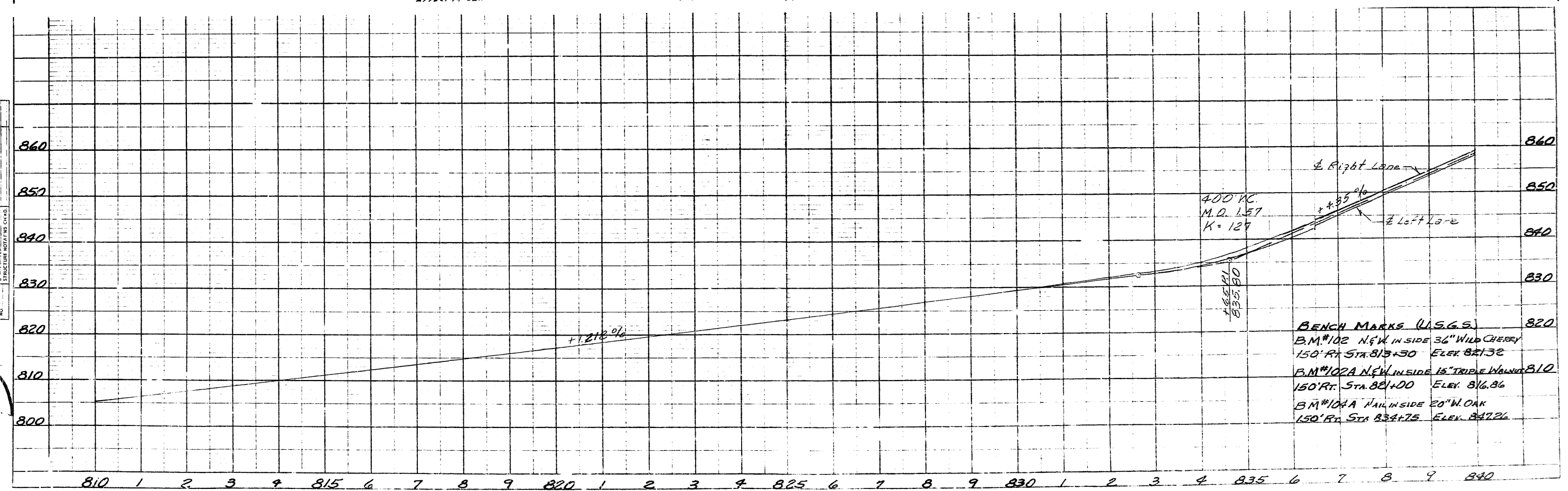
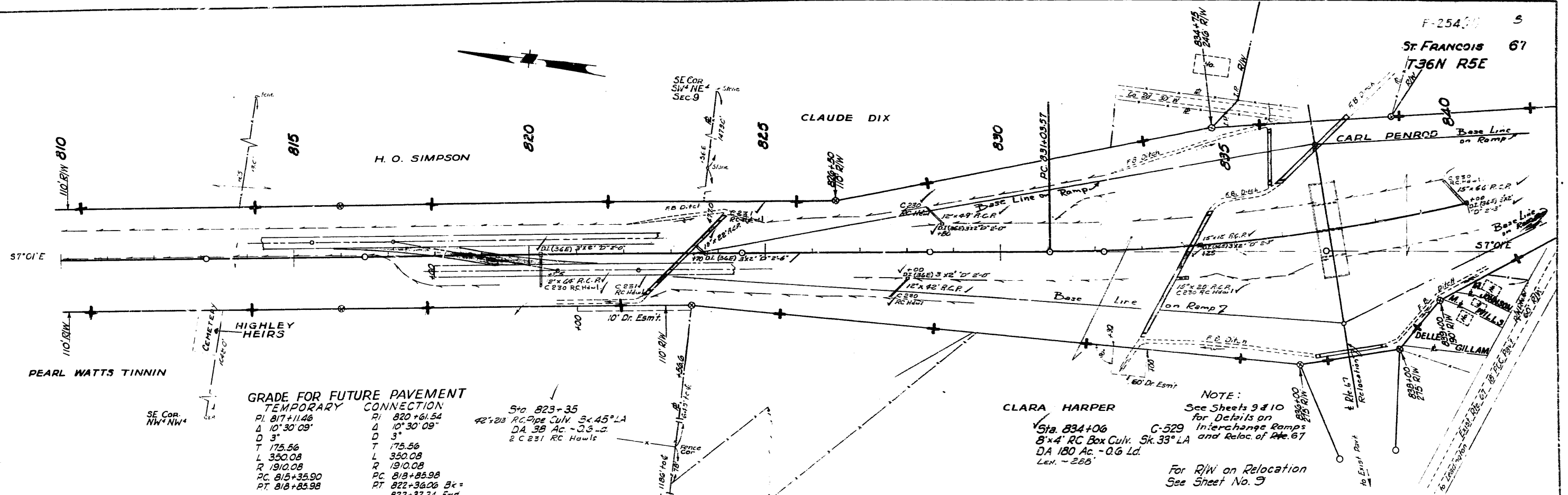


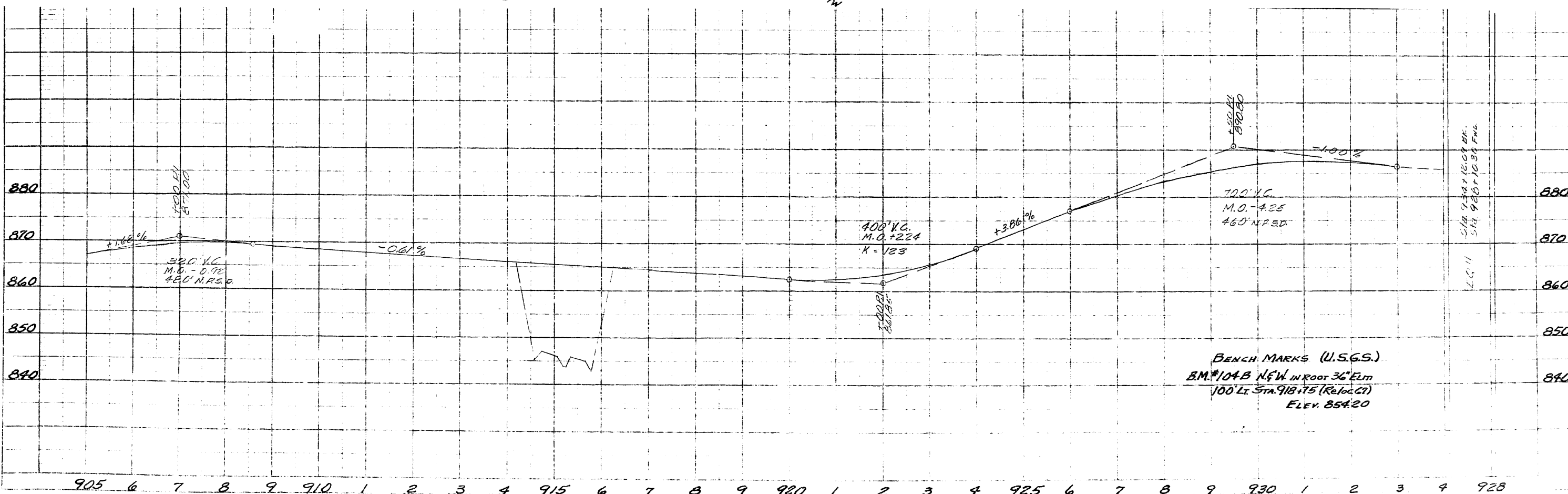
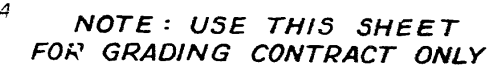
STA. 806+00  
END PROJ.F.G.-254(8)

A point Approx. 890' South  
and 2307' East of the  
SW Cor. SEC 4 T36N R5E



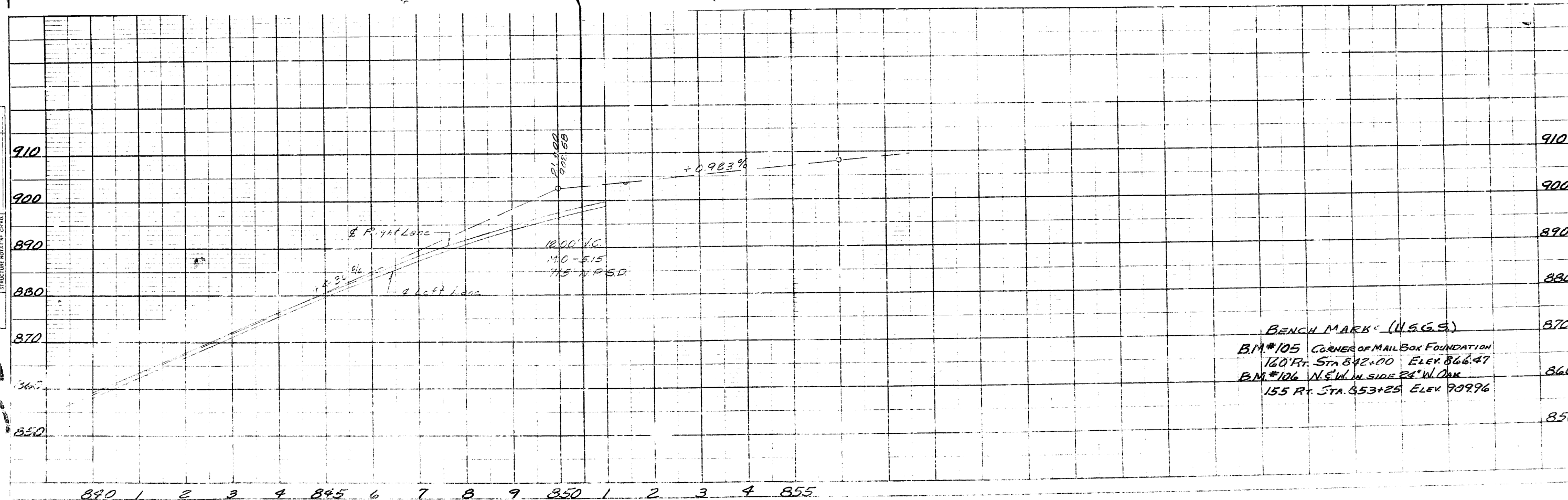
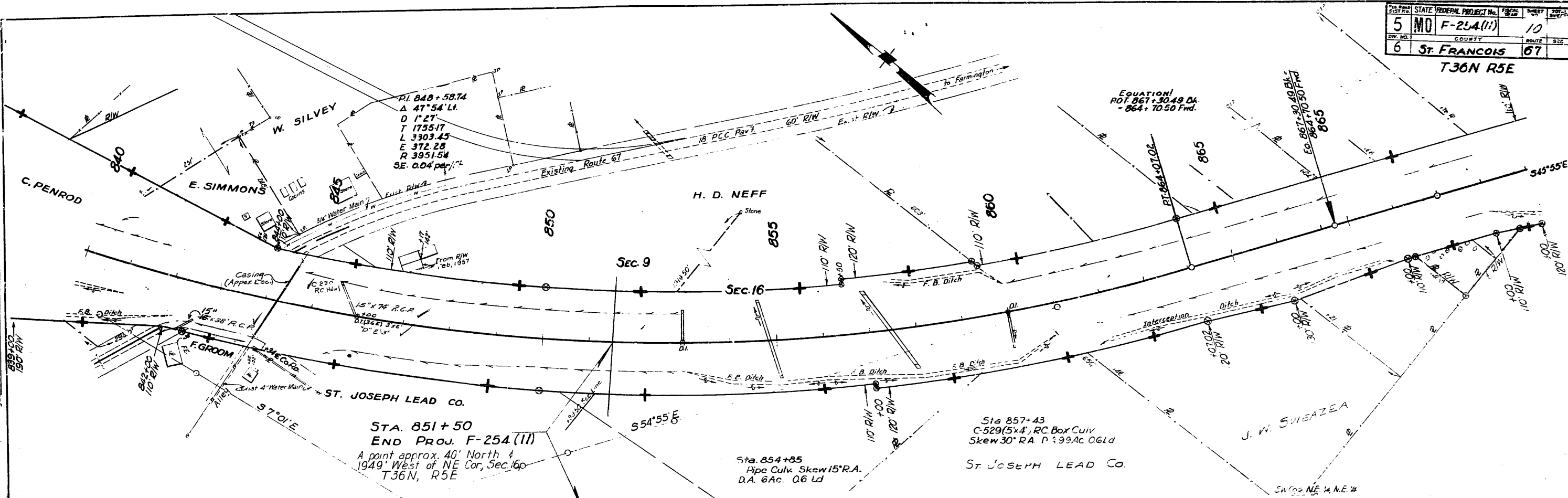
# FINAL PLANS





FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	F-254(11)		10	
DRY. NO.	COUNTY			ROUTE	S
6	ST. FRANCOIS			67	

T36N R5E





NOTE: Rt. hdul. const'd  
90° to E. of box.  
Lt. hdul. skewed  
55° across a  
line 92° to E.  
of box.

Sta. 917+90 (Ramp. R. 67) 5x36 RPA  
8x4x196 R.C. Box Culv. - C-529 Modified Abutment Sect. IV  
CL B CONC. = 197.3 Cu Yds.  
REIN. STEEL = 82,930 LBS.  
CL 3 EXCAV. = 4770.1 Cu Yds.

UNDERGRADING IN ROCK  
1/4 (2153' x 47' x 0.5') = 363.3 Cu Yds.

REC. ROAD  
DIV. No. 5 MO. F-258 (1)  
COUNT 6  
ST. FRA. 43  
FINAL PLANS  
ROUTE 67

Coroway

8726

8726

12.08

8726

8726

8726

12.08

8726

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8726

NOTE: UNDERGRADED  
FULL LENGTH OF BOX  
IN SOLID ROCK

CL 3 = 1051 x 12.08 x 30 = 270.6 Cu Yds.

CL 3 = 939 x 12.08 x 30 = 210.1 Cu Yds.

CL 3 = 806 x 9.08 x 166 = 135.5 Cu Yds.

Sta. 918+60 (Ramp. R. 67)  
5x3'x156' R.C. Box Culv.  
C-529 Modified Abutment Sect. IV  
CL B CONC. = 78.7 Cu Yds.  
REIN. STEEL = 8210 LBS.  
CL 3 EXCAV. = 135.5 Cu Yds.

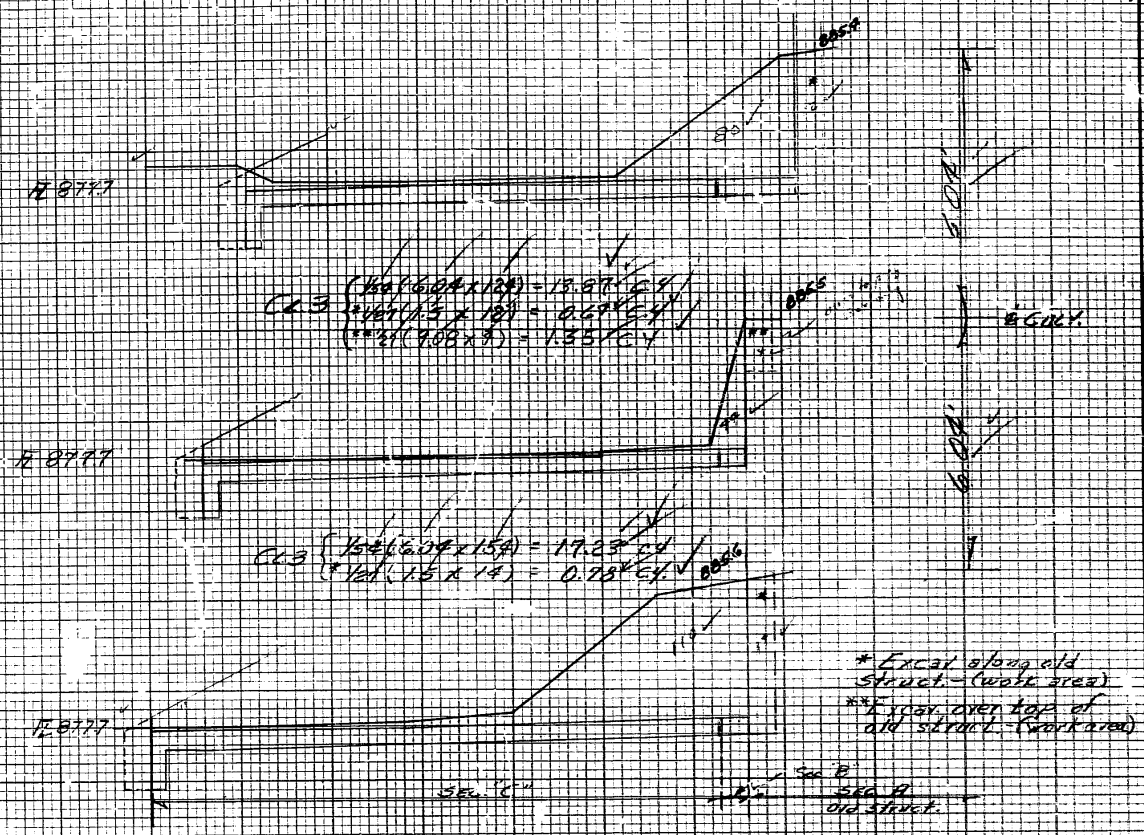
FINAL PLANS



STA 933+99.5 - 32' BT RR  
 (Revol. Rte 67)  
 8' x 4' x 19" R.C. Canal Extension  
 E-529 Modified (Built-in Sect)  
 C.L.B. Conc - 20.6' Cu. Yds  
 Reinf. Steel - 2230' Lbs  
 C.L.3 Excav - 340' Cu. Yds

OK  
 R. 1/2/00

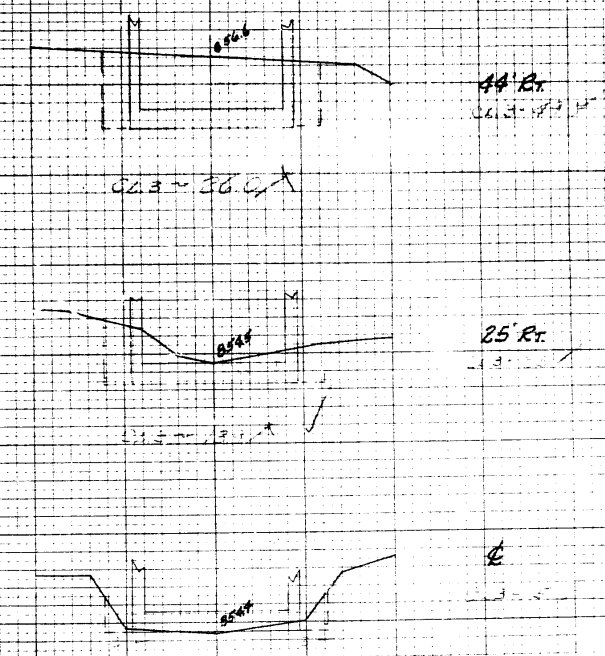
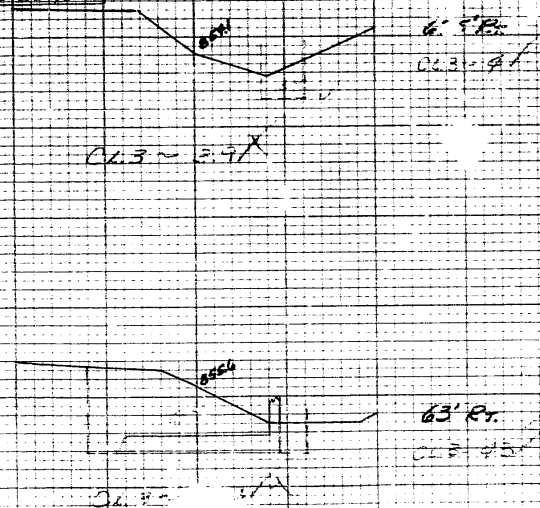
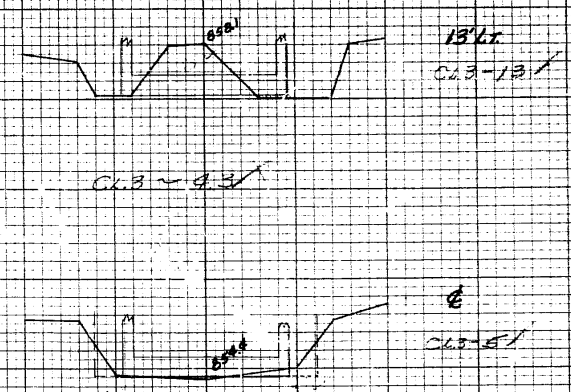
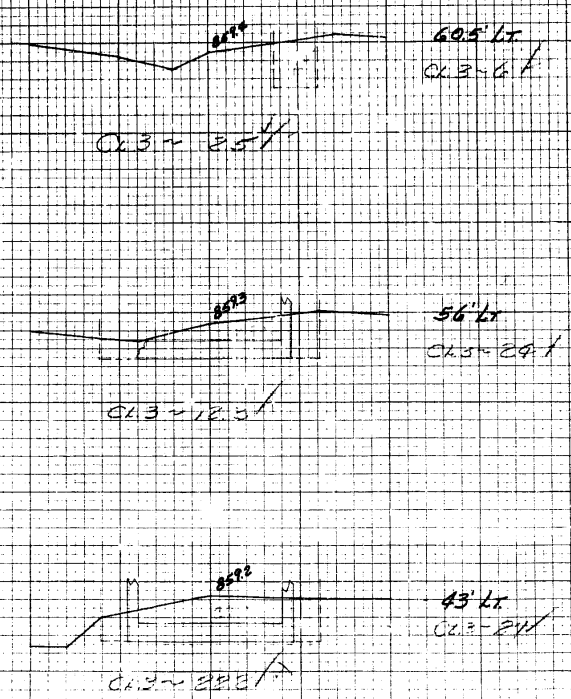
Additional L.B. Conc.  
 Note: Required to square box.  
 Wall  $(8.99' \times 0.34' \times 4.0' \times 1/2) = 0.6343$   
 Top Slab  $0.5' (0.191' \times 0.98' \times 5.54' \times 1/2) = 0.2392$   
 Total  $0.8735$  C.Y.  
 Note: Both slab cut off square  
 Note: No additional reinf. steel required



STA 928+60 - 52' 25" L.A. (Revol. Rte 67)  
 8' x 4' x 10" R.C. Box Cull.  
 E-529 Modified (Built-in Sect)  
 C.L.B. Conc = 9.00' Cu. Yds  
 Reinf. Steel = 10.200' Lbs  
 C.L.3 Excav = 183.5' Cu. Yds

Top Wall Excav  
 (Rt)  $10.00' \times 0.34' \times 0.83' \times 1/2 = 0.66$   
 (Lt)  $10.00' \times 1.0' \times 0.83' \times 1/2 = 0.415$   
 Total  $1.075$  C.Y.

Underground Pipe  
 (12" dia. x 10' long)  
 12" dia. x 10' x 0.5' = 5' Cu. Yds



Sta. 823+35 ~ 45° L.A.  
 42" x 213" R.C.P. Culv. \*  
 C-231 RC Hdwl. (Lt. 5RA)  
 C.I. 3 Excav. = 274.0 CY ✓  
 C.I. B Conc. = 132 C.Y. ✓  
 Reinf. Steel = 130 Lbs. ✓  
 132

5 MO F-254(M) 32  
 6 St. Francois 67  
**FINAL PLANS**

Inlet incl'd in roadway excav.

# 816.4

Undergrading in solid rock

C.I. 3 EXCAV.

PIPE  
 785' x 846' x 1/2" = 227.2 ✓  
 (Un. Gr.) 4.85' x 48' x 1/2" = 7.67 ✓  
 HDWL  
 842' x 106' x 1/2" = 33.1 ✓  
 (Un. Gr.) 542' x 31' x 1/2" = 6.2 ✓  
 274.1 CY (C.I. 3)

Outlet incl'd in roadway excav.

# 813.9

Undergrading in solid rock

Sta. 756+90 ~ 30° L.A.

36" x 114" R.C.P. Culv. \*

C-230 RC Hdwl. (Lt.)

C.I. 3 Excav. = 81.5 CY ✓

C.I. B Conc. = 3.2 C.Y. ✓

Reinf. Steel = 240 Lbs. ✓

\* 15" x 36" Tee Joint

(for future D.I.)

15" x 4" R.C.P. Culv. (Plugged)

\*\* incl'd curtain wall (Ct.)

Inlet incl'd in roadway excav.

# 779.0

Undergrading in solid rock

C.I. 3 EXCAV.

PIPE  
 667' x 266' x 1/2" = 64.2 ✓  
 (Un. Gr.) 3.67' x 38' x 1/2" = 5.2 ✓  
 HDWL  
 783' x 34' x 1/2" = 9.9 ✓  
 4.83' x 11' x 1/2" = 2.0 ✓  
 81.3 CY (C.I. 3)

Curtain wall

Sta. 731+10 ~ 25° RA

24" x 111" R.C.P. Culv. \*

C-230 R.C. Hdwl. (Lt.)

C.I. 3 Excav. = 75.0 CY ✓

C.I. B Conc. = 1.7 C.Y. ✓

Reinf. Steel = 150 Lbs. ✓

\* 24" x 18" Tee Joint

(for future D.I.)

18" x 8" R.C.P. Culv. (Plugged)

\*\* incl'd curtain wall (Ct.)

Incl'd in roadway excav.

# 742.8

Undergrading in solid rock

C.I. 3 EXCAV.

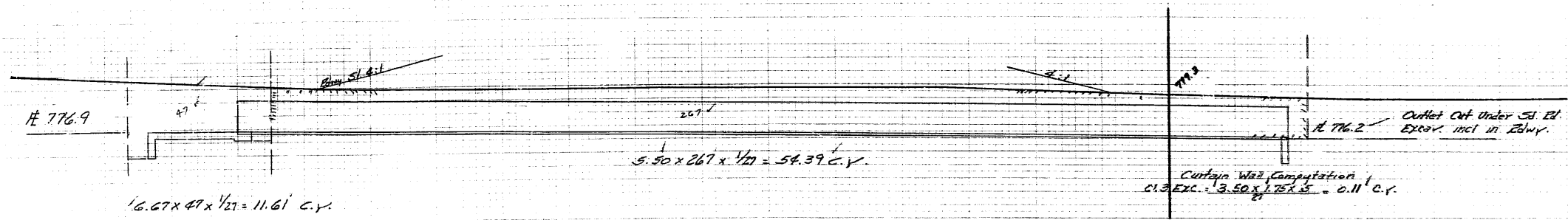
PIPE  
 55' x 306' x 1/2" = 63.3 ✓  
 (Undergrading) 2.5' x 46' x 1/2" = 7.0 ✓  
 HDWL  
 667' x 266' x 1/2" = 49.4 ✓  
 ( " " ) 3.67' x 7' x 1/2" = 1.0 ✓  
 75.2 CY (C.I. 3)

Curtain wall in solid rock.

**FINAL PLANS**

Sta. 753+90  
24" x 79" RCP  
C-230(RC) Hdwl Lt.  
Conc. Curt. Wall Rt.

1.3 Exc. = 66.0 C.Y. (meas.)  
C. B. Conc. = 1.11 C.Y. (Plan)  
Reinf. Steel = 124 Lb. (Plan)



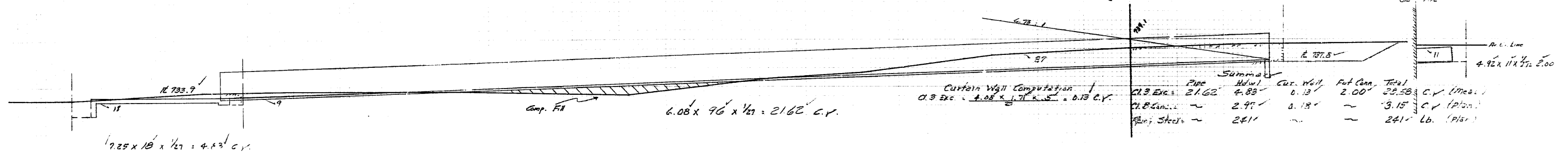
Summary

PIPE	Hdwl	Cur. Wall	Total	C.Y. (meas.)
C1.3 Exc.	54.39	11.61	66.0	66.0
C1.3 Conc.	~	1.26	1.4	1.4
Reinf. Steel	~	124	124	124

Curtain Wall Computation  
C1.3 Exc. = 3.50 x 1.75 x 5 = 0.11 C.Y.

Sta. 692+45 SK 45° LA.  
30" x 113" RCP w/ 18" x 30" T-Jt. fut. DI  
18" x 4" RCP (T. Rt. E)  
C-230(RC) Lt. ~ Conc. Curt. Wall Rt.

C1.3 Exc. = 28.5 C.Y. (meas.)  
C1.3 Conc. = 3.15 C.Y. (Plan)  
Reinf. Steel = 241 Lb. (Plan)



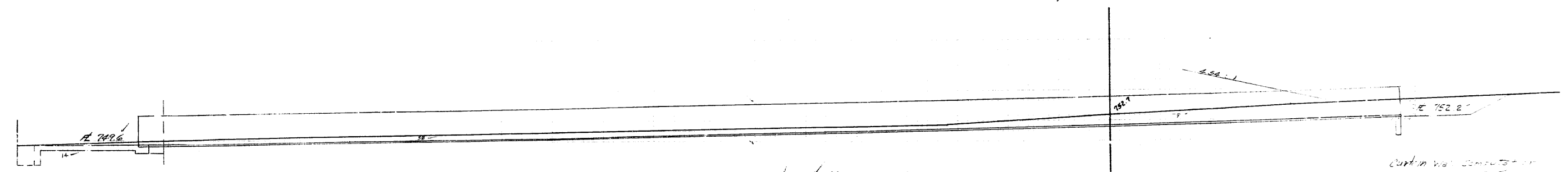
Summary

PIPE	Hdwl	Cur. Wall	Fut. Conn.	Total	C.Y. (meas.)
C1.3 Exc.	21.62	4.83	2.00	28.45	28.45
C1.3 Conc.	~	2.97	~	3.15	3.15
Reinf. Steel	~	241	~	241	241

Curtain Wall Computation  
C1.3 Exc. = 4.08 x 1.71 x 5 = 0.13 C.Y.

Sta. 686+52 SK 25° LA.  
30" x 125" RCP C-230(RC) Lt.  
Conc. Curtain Wall Right

C1.3 Exc. = 30.0 C.Y. (meas.)  
C1.3 Conc. = 2.35 C.Y. (Plan)  
Reinf. Steel = 184 Lb. (Plan)



Summary

PIPE	Hdwl	Cur. Wall	Total	C.Y. (meas.)
C1.3 Exc.	26.35	3.70	30.0	30.0
C1.3 Conc.	~	2.35	2.35	2.35
Reinf. Steel	~	184	184	184

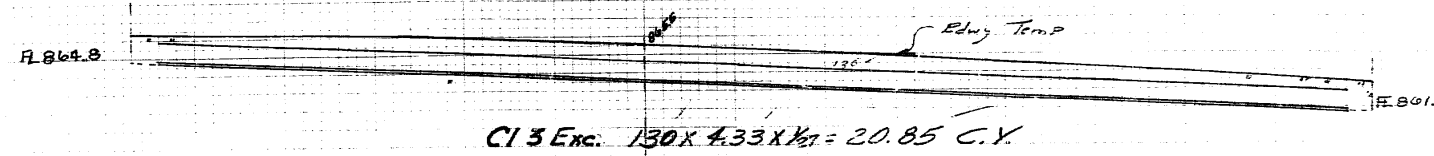
Curtain Wall Computation  
C1.3 Exc. = 4.08 x 1.71 x 5 = 0.13 C.Y.

7.25 x 18 x 1/27 = 4.83 C.Y.

7.25 x 14 x 1/27 = 3.76

6.08 x 117 x 1/27 = 26.35 C.Y.

Sta. 909+50 - Relocated 67  
12" X 66" RC Pipe Culv.  
Loop Conn - Located in Lt. ditch Old 67  
Cl. 3 Exc. 21.0 Cu.Yd.

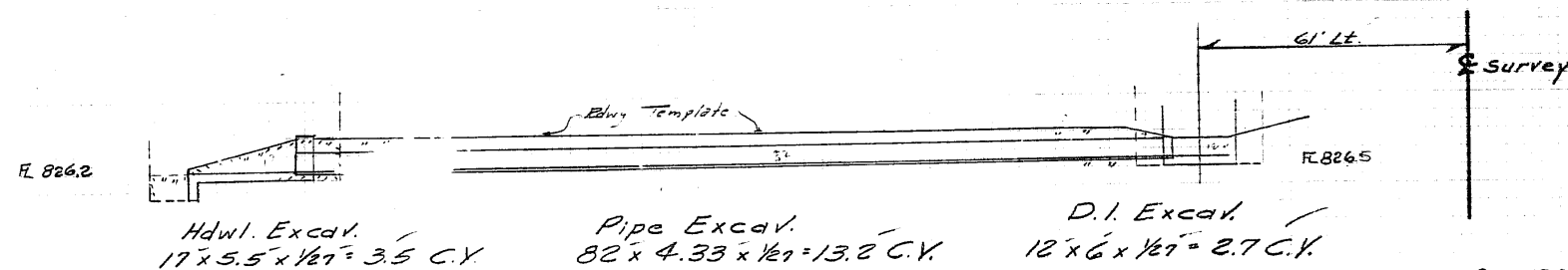


Cl 3 Exc.  $130 \times 4.33 \times \frac{1}{2} = 20.85$  C.Y.

Sta. 828+80 - Sk. 45° RA  
12" X 48" RC Pipe Culv.  
C230 RC Hdwl. Lt.  
36E-3X2 DI - D=2'-0" - 1 Spillway

Type A Cover - 1-12" Opq.

Pipe & Hdwl. DI  
Cl. 3 Exc. 16.5 Cu.Yd. 2.5 Cu.Yd.  
Cl. B Conc. 0.87 Cu.Yd. 0.83 Cu.Yd.  
Reinf. Steel 70 Lbs. 67 Lbs.



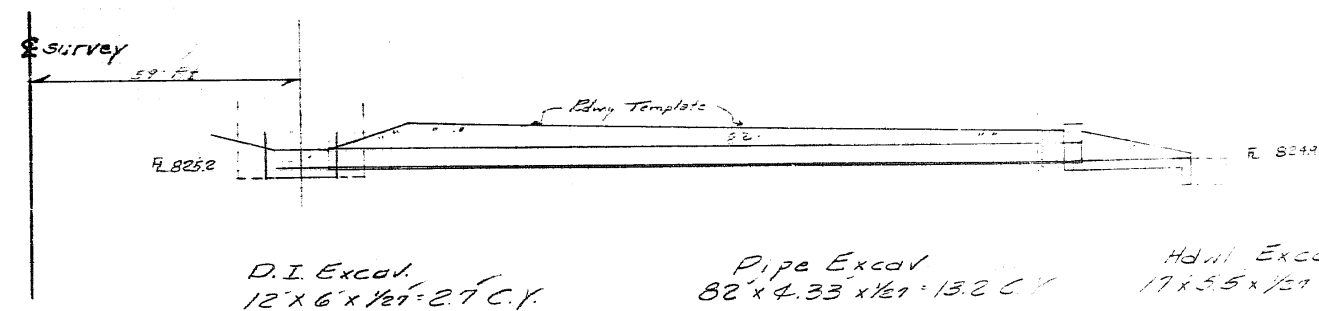
Hdwl. Excav.  
 $17 \times 5.5 \times \frac{1}{2} = 3.5$  C.Y.

Pipe Excav.  
 $82 \times 4.33 \times \frac{1}{2} = 13.2$  C.Y.

D.I. Excav.  
 $12 \times 6 \times \frac{1}{2} = 2.7$  C.Y.

Sta. 828+00 - Sk. 45° LA  
12" X 42" RC Pipe Culv.  
C230 RC Hdwl. RL  
36E-3X2 DI - D=2'-0" - 1 Spillway  
Type A Cover - 1-12" Opq.

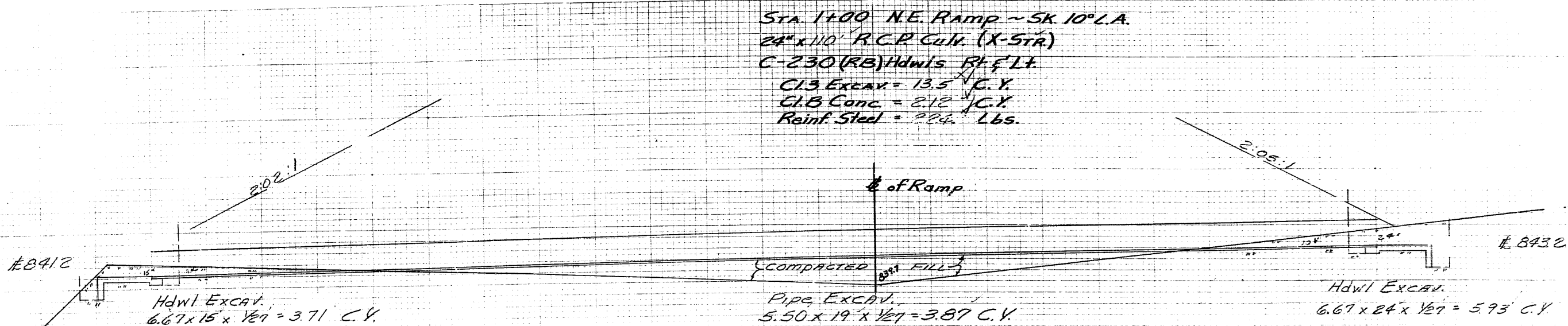
Pipe & Hdwl. DI  
Cl. 3 Exc. 16.5 Cu.Yd. 2.5 Cu.Yd.  
Cl. B Conc. 0.87 Cu.Yd. 0.83 Cu.Yd.  
Reinf. Steel 70 Lbs. 67 Lbs.



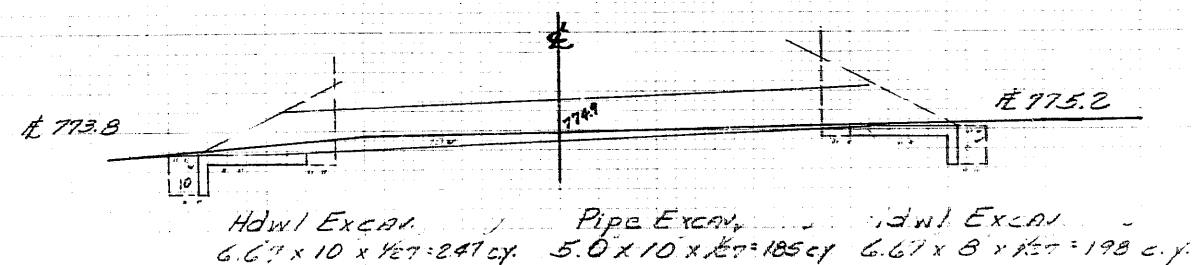
D.I. Excav.  
 $12 \times 6 \times \frac{1}{2} = 2.7$  C.Y.

Pipe Excav.  
 $82 \times 4.33 \times \frac{1}{2} = 13.2$  C.Y.

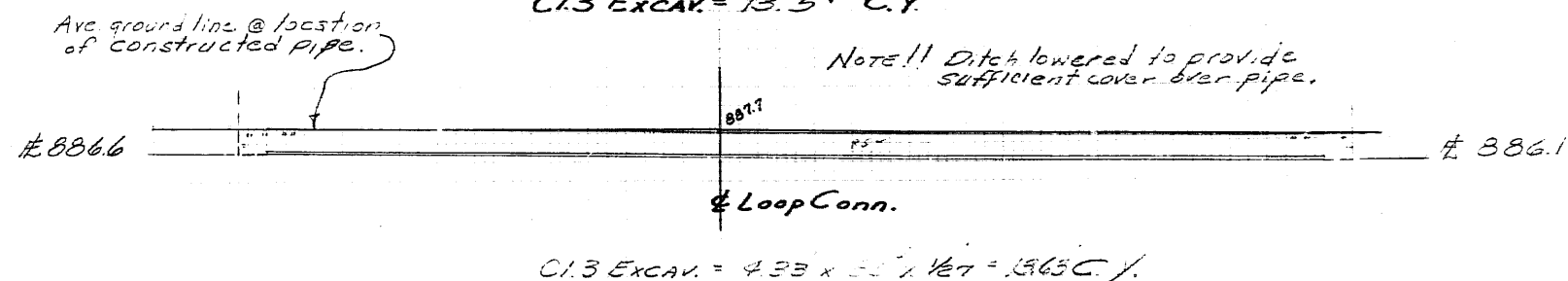
Hdwl. Excav.  
 $17 \times 5.5 \times \frac{1}{2} = 3.5$  C.Y.



STA 756+00 (Side Road Rt)  
24" x 30' C.M.P. ~ C-230 (RB) Hdwl's Rt & Lt.  
Cl. B Excav. = 6.5 C.Y.  
Cl. B Conc. = 1.98 C.Y.  
Reinf. Steel = 196 Lbs.



STA 930+00 (RELOC 67)  
12" x 56' R.C.P. Culv.  
Located in rt. ditch line  
under Loop Connection.  
Cl. B Excav. = 13.5 C.Y.





# LIST OF STANDARD PLANS

PROJ.	SHEET
F-254(11)	33
CO.	RTE.
ST FRANCOIS	67

[illegible]

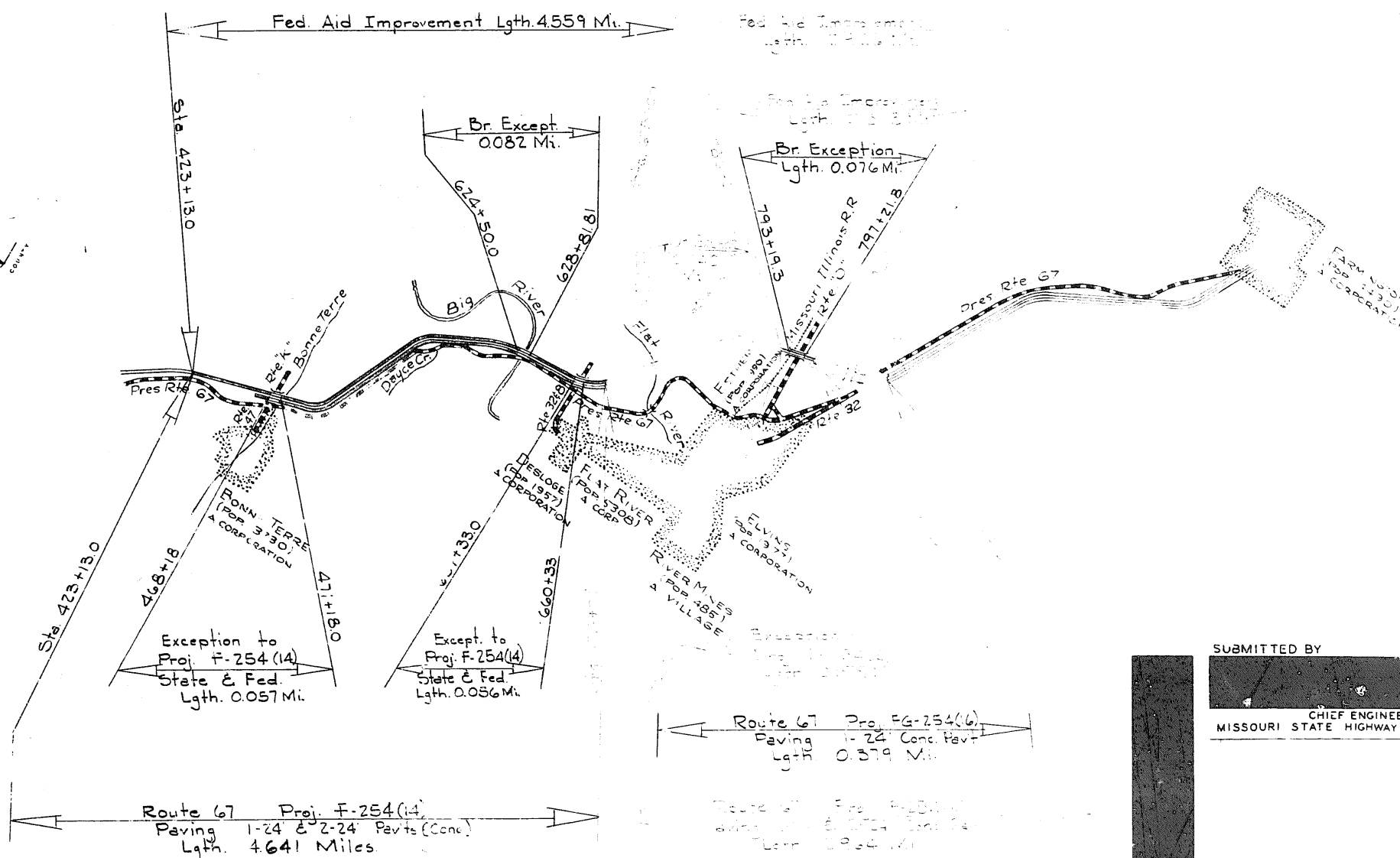
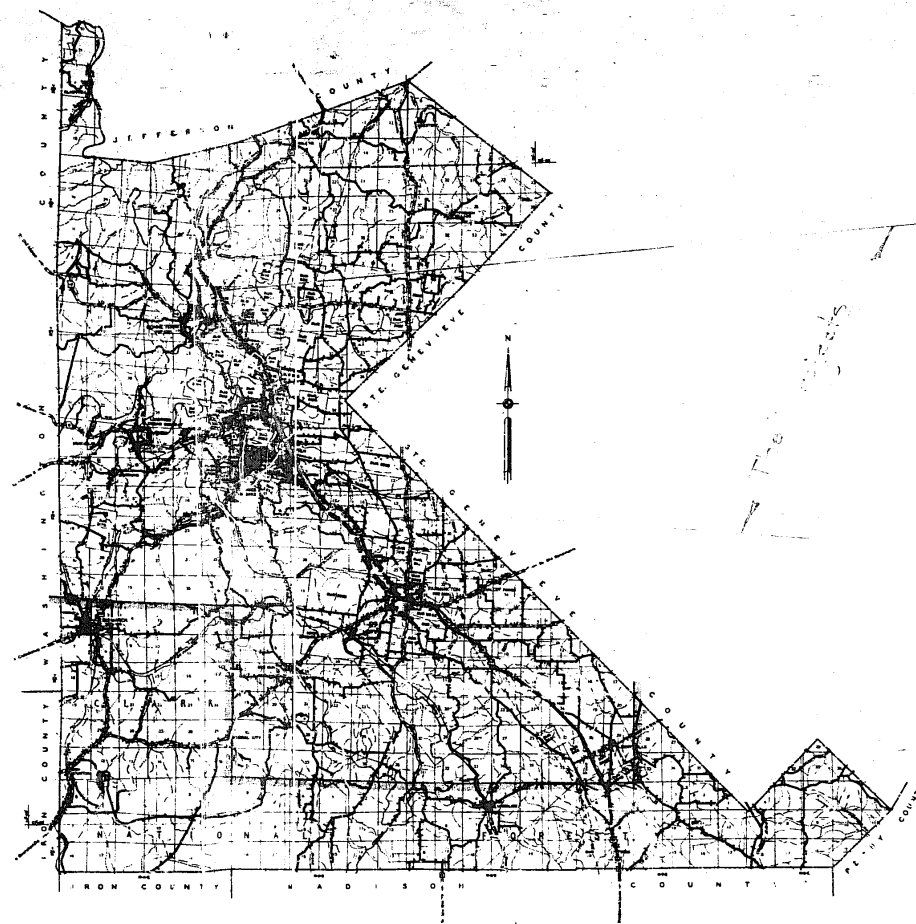


# LOCATION MAP

## MISSOURI STATE HIGHWAY COMMISSION PLAN AND PROFILE OF PROPOSED STATE ROAD

FEDERAL AID PROJECT  
ST. FRANCOIS COUNTY

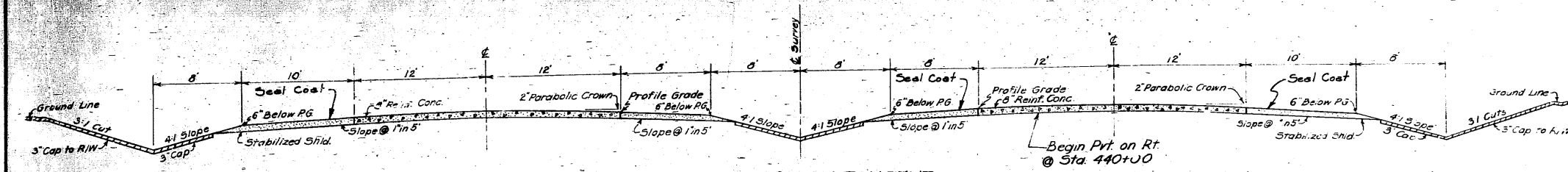
COUNTY
ST. FRANCOIS
STATE ROUTE NO.
67
PROJECT NO.
F-254 (14)
FG-254 (16)
F-254 (15)



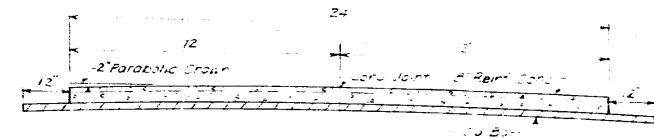
CONVENTIONAL SIGNS	
STATE AND NATIONAL LINE	LEVEL
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	SHOULDER ELEVATION
RIGHT OF WAY LINE	GRADE ELEVATION
TRAVELED WAY	SURFACE LINE
RAILROADS	GRADE LINE
RETAINING WALL	
BASE OR SURVEY LINE	

SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF ENGINEER  
MISSOURI STATE HIGHWAY COMMISSION

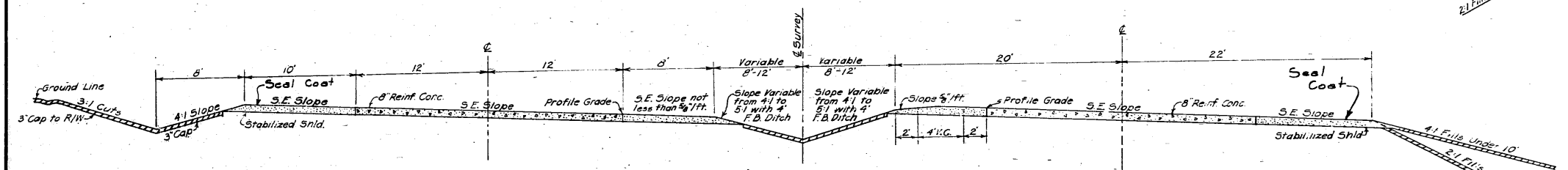
FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	F254(14) F254(15) F6254(16)		
6	ST. FRANCOIS	67		



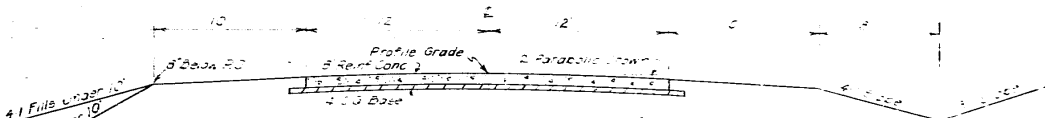
SECTION ON TANGENT  
STA. 423+13 to 465+00



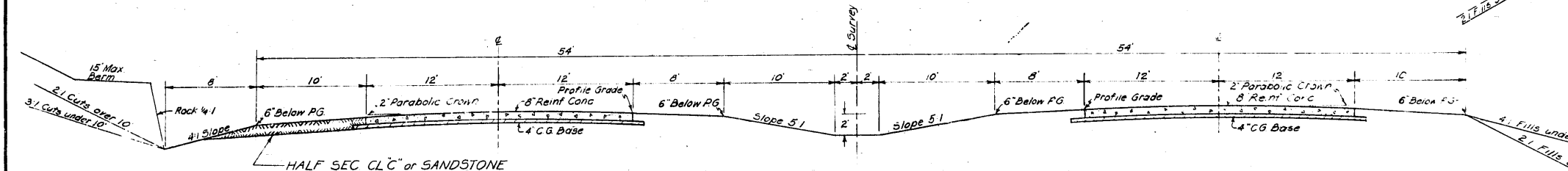
Note Crown to be eliminated on all super-elevated curves.  
DETAILS OF TYPICAL PAVEMENT SECTION



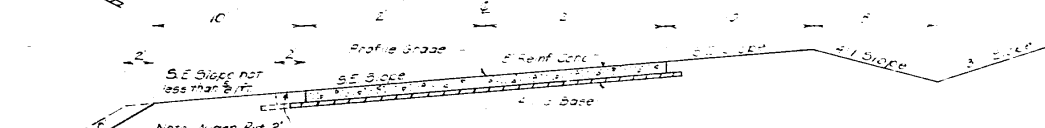
SECTION ON CURVE  
STA. 444+32.99 to 430+52.93



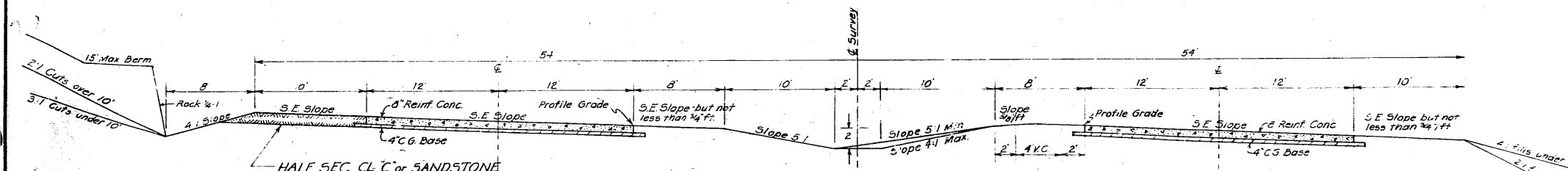
SECTION ON TANGENT  
RTE. 67 RELOCATION



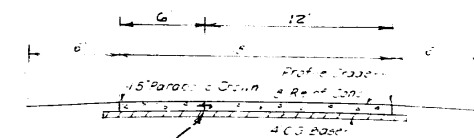
SECTION ON TANGENT



SECTION ON CURVE  
RTE 67 RELOCATION



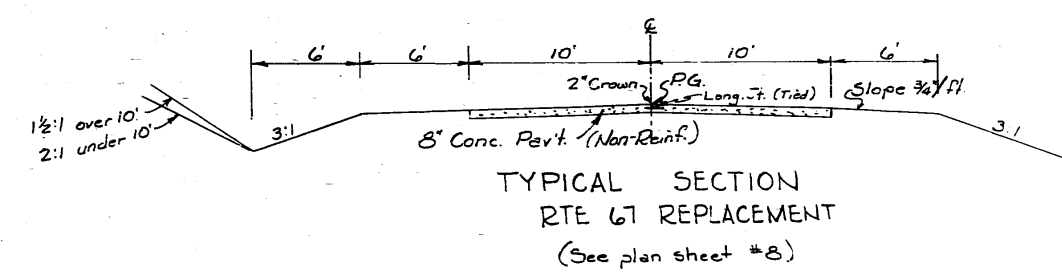
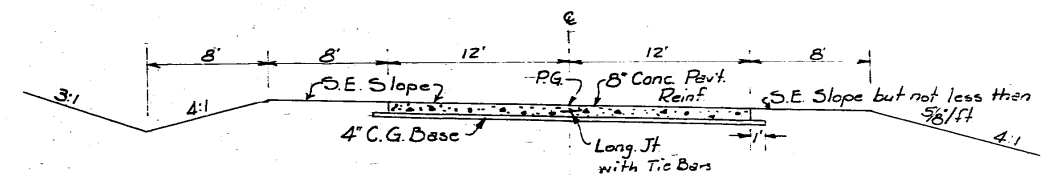
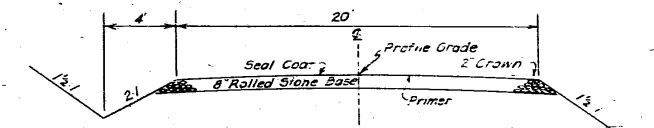
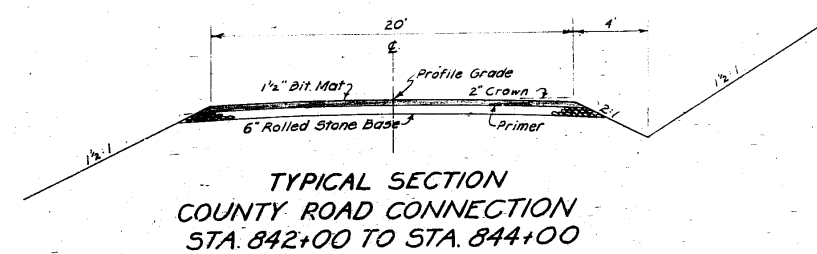
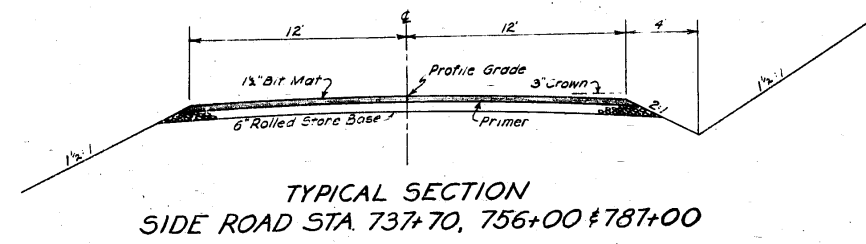
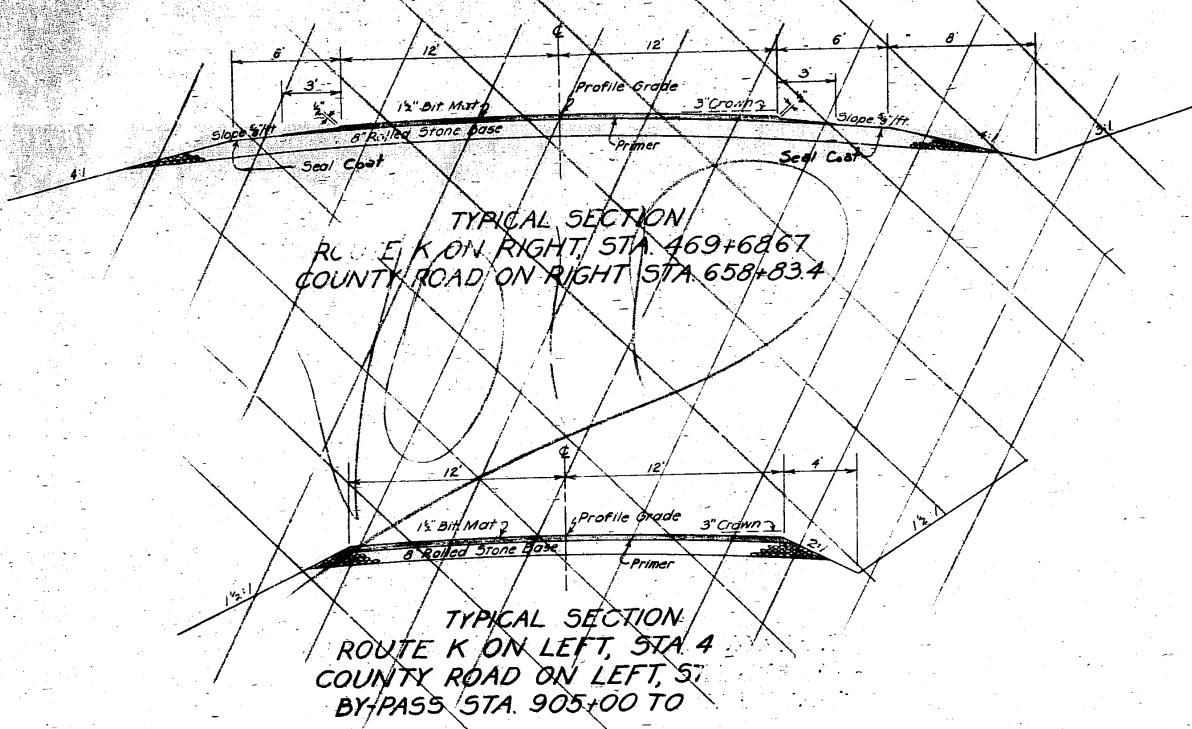
SECTION ON CURVE



SECTION ON RAMPS

**TYPICAL SECTIONS**  
1-24' & 2-24' CONC. PAVT'S  
ROUTE 67 ST. FRANCOIS CO.

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.
5	MO.	F 254(14) F 254(15) FG 254(16)		
DIST. NO.	COUNTY	ROUTE	SEC.	
6	ST. FRANCOIS	67		



**TYPICAL SECTIONS**  
ROLLED STONE BASE & BITUMINUS MAT  
ROUTE 67 ST. FRANCOIS CO.

LOCATION BONNE TERRE TO LEADINGTON

## MISSOURI STATE HIGHWAY COMMISSION

TYPE 2 24' Conc. Pmts on Part & 1-24' Conc. Pmt on Part

## SUMMARY OF QUANTITIES

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	F254 (15)		2A	41
DIST. No.	COUNTY	ROUTE	SEC. No.		
6	ST. FRANCOIS	67			

## GENERAL SUMMARY FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS
10	Class A Excavation	Cu. Yd.	3,784	
10	Class A Excavation (Borrow)	Cu. Yd.	16,574	
11	Class 3 Excavation (for Structures)	Cu. Yd.	15.5	
1K	Compacting Embankments	Cu. Yd.	919	
1K	Compacting in Cuts	Cu. Yd.	0	
1Q	Removing Pavement	Sq. Yd.	1,683.0	
1B0	Subgrading & Shouldering	Sta.	129.6	
13V	Salvaged Surface	Cu. Yd.	414	
15A	Concrete Pavement (8" Reinf.)	Sq. Yd.	57,202.4	
15A	Concrete Pavement (8" Non-Reinf.)	Sq. Yd.	17,027.1	
15B	Approach Slabs for Bridge	Sq. Yd.	360.3	
16E	Class B Concrete (other than Box Culverts)	Cu. Yd.	1.0	
18B	12" Corrugated Metal Culv. Pipe	Lin. Ft.	68	
18C	12" Reinf. Conc. Culv. Pipe	Lin. Ft.	0	
19A	Reinforcing Steel	Lb.	80	
24A	Class A, Type 1 Underdrains	Lin. Ft.	1,462	
25H	Surface Drains	Each	2	
25I	Surface Drains	Lin. Ft.	74	
27A	Guard Rail (Type A)	Lin. Ft.	3,285	
28A	Barricades	Each	2	
28C	Standard Signs, Flags & Flagging	L. Sum	1	
28E	Movable Barricades	Each	6	
29D	Drain Markers	Each	26	
33A	Removal of (C) Existing Structs.	L. Sum	1	

LENGTH OF PROJECT	Station
End of Project	851+50
Beginning of Project	675+00
Apparent Length	17650 Feet
Equations and Exceptions:	
Proj. FG 254 (16) Sta. 786+00 - Sta. 806+00	
Total Corrections	-2000 Feet
Net Length of Project	15,650 Feet
State Length	2,964 Miles
Federal Length	2,924 Miles
FEDERAL LENGTH	Station
End Federal Aid Improvement	851+50
Begin Federal Aid Improvement	675+00
Apparent Length	17650 Feet
Exceptions	
Proj. FG 254 (16)	
Bridge Excp. Sta. 707+80 - 709+92.5	
Total Corrections	-212.5 Feet
Net Federal Length	2,924 Miles

## PROCESSING

Sta.	Loc.	Length
737+70	SR Rt. Lt.	.10
756+00	SR Rt. Lt.	.08
842+00	Car Rd. Rt.	.04
905+00	9.11+40 Temp. By Pass	.12
Total		0.34 M.

## 2" RIGID STEEL CONDUIT

Sta.	Loc.	Lin. Ft.
821+40	Rt. Lane	47
821+40	Lt. Lane	54
836+20	Rt. Lane	42
836+20	Lt. Lane	42
837+80	Rt. Lane	42
837+80	Lt. Lane	42
851+20	Rt. Lane	54
851+20	Lt. Lane	42
912+65	Reloc. GT	56
917+80	Reloc. GT	56
6+60	N.W. Ramp	30
15+70	N.W. Ramp	30
1+05	N.E. Ramp	30
8+60	N.E. Ramp	30
0+80	S.W. Ramp	30
5+45	S.W. Ramp	30
3+00	S.E. Ramp	30
7+75	S.E. Ramp	30
Total		717 Lin. Ft.

## DEFICIENT PAVEMENT THICKNESS

Deduct \$433.08

## ROLLED STONE BASE

(Side Roads &amp; By Pass)

1BA	Water	100/Gal.	105
2A	Aggregate	Ton	1954
2B	Spread, Shape & Compact (6")	Sq. Yd.	3682
2B	Spread, Shape & Compact (8")	Sq. Yd.	1750

## 4" COMPACTED GRANULAR BASE

(for Concrete Pavement)

1BA	Water	100/Gal.	150
3CA	Granular Base Material	Ton	20,071
3CB	Spread, Shape & Compact	Mile	4.93

## BITUMINOUS MAT

(Side Roads &amp; By Pass)

9A	Hauling & Windrowing Appr. (51-11E-F)	Ton	351
9B	Processing	Mile	0.34
9C	Primer (MC-0)	Gal.	1890
9D	Binder (MC-9)	Gal.	4260

## CONTINGENT ITEMS

2" Rigid Steel Conduit	Lin. Ft.	717
Furnish & Install Long Joint Matl.	L. Sum	1
Concrete Slope Protection	F.A.	\$1917.99
Class C Excavation	Cu. Yd.	551
Lay State Furnished Pipe	Lin. Ft.	36
Deduction for Thin Pavement	L. Sum	\$433.08

## FINAL PLANS

## CULVERT PIPE - LOOP CONN.

Sta.	Loc.	12" RCP	C.I. 3	H/Wall	C.I. 3 Conc. Reinf.	Remarks
907+50	100' Rt.	*	5.5	2 RC	1.0	84' * Pipe Laid Under Previous Contract
Total			5.5			84'
Pay			5.5			1.0

## ENTRANCES &amp; SIDE ROADS

Sta.	Type	Loc.	12" CMP	C.I. 3	Exc.	Station	Remarks
906+00	By Pass	E	32	5			
910+50	By Pass	E	36	5			
920+30	P.E.	Lt.				36'	15" CMP = Contingent Item
Total			68	10		36	

## SURFACE DRAINS &amp; DRAIN BASINS

Sta.	Sta.	Loc.	Std.	No.	Basin	L.F.	Drain	Remarks
916+25	916+39	Lt.	25K	1	40		SD Field Maint.	
916+25	916+39	Rt.	25K	1	34		SD Field Maint.	
Total				2		74		Lin. Ft.

## APPR. SLABS FOR BRIDGES

Sta.	Sta.	Loc.	Sq. Yd.	Remarks
707+80		Lt. Lane	66.87	Sk. 10' L.A.
709+92.5		Rt. Lane	66.87	Sk. 10' L.A.
913+97.9	914+17.9	E	113.30	Reloc. 67
916+24.9	916+44.9	E	113.30	Reloc. 67
Total			360.34	
Pay			360.3	Sq. Yd.

## MISC. ITEMS ON P&amp;S SHEETS

Sheet No.	C.I. 4	U.D.	Dr.	Markers
3	193		4	
4	298		5	
5	96		2	
6	202		3	
7	0		0	
8	200		4	
9	275		4	
10	0		0	
11	0		0	
12	198		4	
Total			1462	26

## GUARD RAIL

Sta.	Sta.	Side	Type	Lin. Ft.	Remarks
706+62	707+74	Rt.	A	112	Bridge End
707+54	707+79	Lt.	A	25	Bridge End
709+73.5	710+8.5	Rt.	A	25	Bridge End
707+78	711+11	Lt.	A	112	Bridge End
11+00	Ramp 711+00	Rt.	A	7.62	N.W. Ramp & 67' Reloc. (Incl. Radius)
11+50	Ramp 711+14	Lt.	A	5.50	N.W. Ramp & 67' Reloc. (Incl. Radius)
3+25	Ramp 916+28	Lt.	A	3.50	N.E. Ramp & 67' Reloc. (Incl. Radius)
2+65	Ramp 914+00	Rt.	A	3.62	N.E. Ramp & 67' Reloc. (Incl. Radius)
912+70	2500 Ramp	Rt.	A	2.25	67' Reloc. S.W. Ramp (Incl. Radius)
914+14	2510 Ramp	Lt.	A	2.12	67' Reloc. S.W. Ramp (Incl. Radius)
7+50	Ramp 916+28	Lt.	A	2.25	S.E. Ramp & 67' Reloc. (Incl. Radius)
7+30	Ramp 917+75	Rt.	A	2.62	S.E. Ramp & 67' Reloc. (Incl. Radius)
916+80		E	A	3.8	Old Rte. 67
919+80		E	A	25	Old Rte. 67
Total				3,285	Lin. Ft.

## BARRICADES

Sta.	Loc.	Perm.	Movable
686+00	End Rt. Lane		2
828+00	Rt. Lane	2	
0+60	S.W. Ramp		2
8+00	S.E. Ramp		2
Total		8	6

## PAVEMENT REMOVAL

Sta.	Sta.	Width	Sq. Ft.	Remarks
905+65.6	910+50.7	18	87,372	Old Rte. 67 Sec. Sh. #32
916+38.7	919+90.7	18	6411.6	Old Rte. 67 Sec. Sh. #32
Total			151,488	Sq. Ft.
Pay			1683.0	Sq. Yd.

## SUBGRADING &amp; SHOULDERING

Sta.	Sta.	Loc.	No Sta
677+00	686+00	Rt.Lane	9.0
677+00	694+00	Lt.Lane	17.0
702+00	707+80	Lt.Lane	5.8
733+00	785+00	Lt.Lane	12.0
772+00	778+00	Lt.Lane	6.0
834+00	842+70	Lt.Lane	8.7
834+00	842+70	Rt.Lane	8.7
843+60	851+50	Rt.Lane	7.9
5+50	16+50	N.W.Ramp	11.0
3+00	8+30	S.E.Ramp	5.3
0+35	7+36.09	S.W.Ramp	7.0
844+00	851+50	Decoll.Lane	7.5
708+00	913+97.9	Reloc.GT	6.0
916+44.9	934+120.9	Reloc.GT	17.7

## 8" REINF. CONC. PVMT.

Sta.	Sta.	Total	Sq. Ft.	Remarks
675+00	851+50	514	821.46	See Sh. #30 for Calc.
Total			51482.46	Sq. Ft.
Pay			52202.4	Sq. Yd.

## 8" NON-REINF. CONC. PVMT.

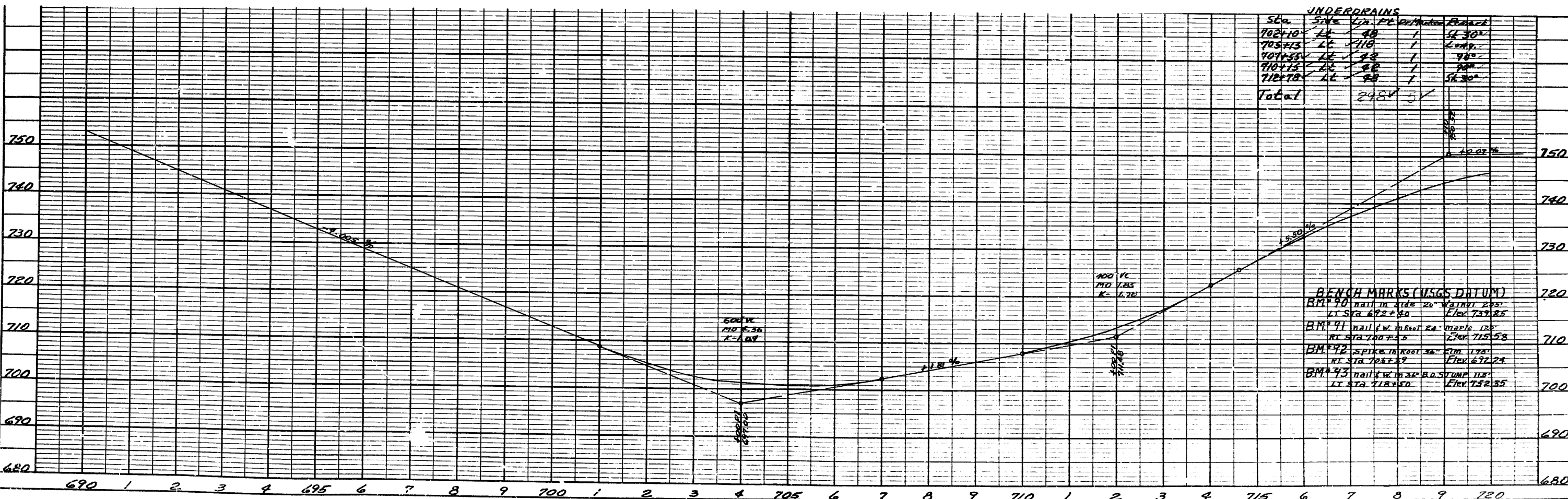
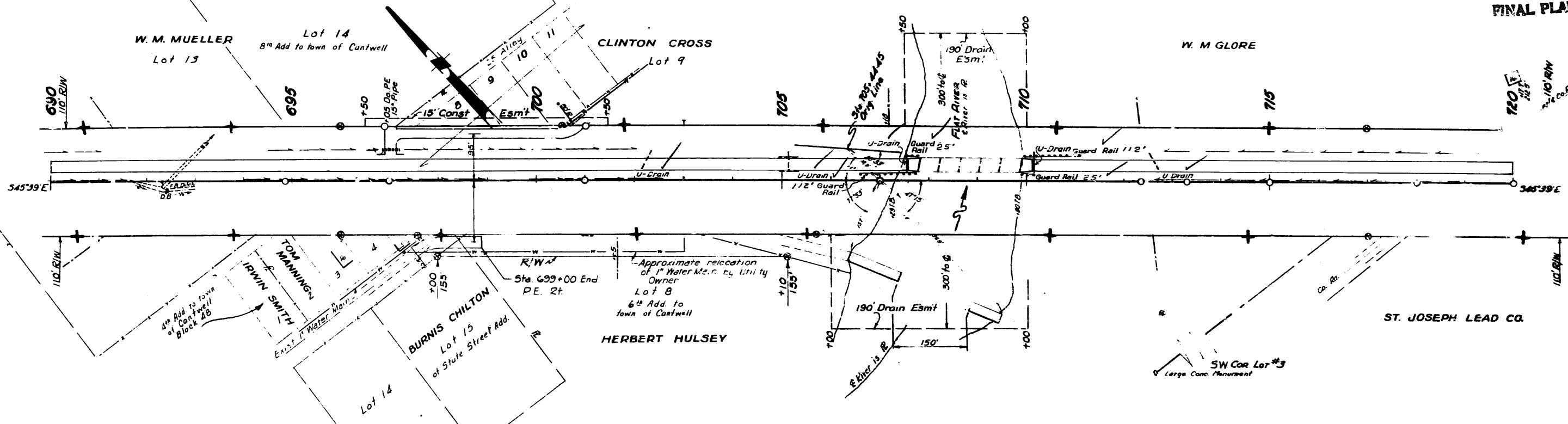
Sta.	Sta.	Total	Sq. Ft.	Remarks
905+00	938+00	153	243.58	See Sh. #30 for Comp.
Total			153243.58	Sq. Ft.
Pay			17027.1	Sq. Yd.





T37N R5E

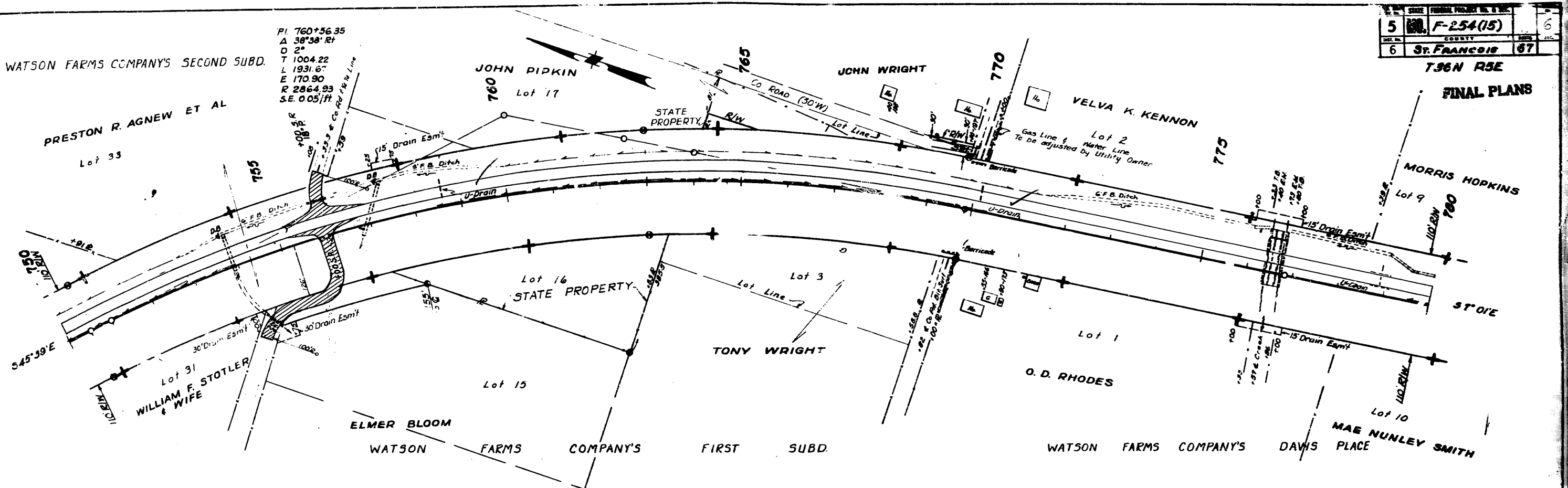
FINAL PLANS





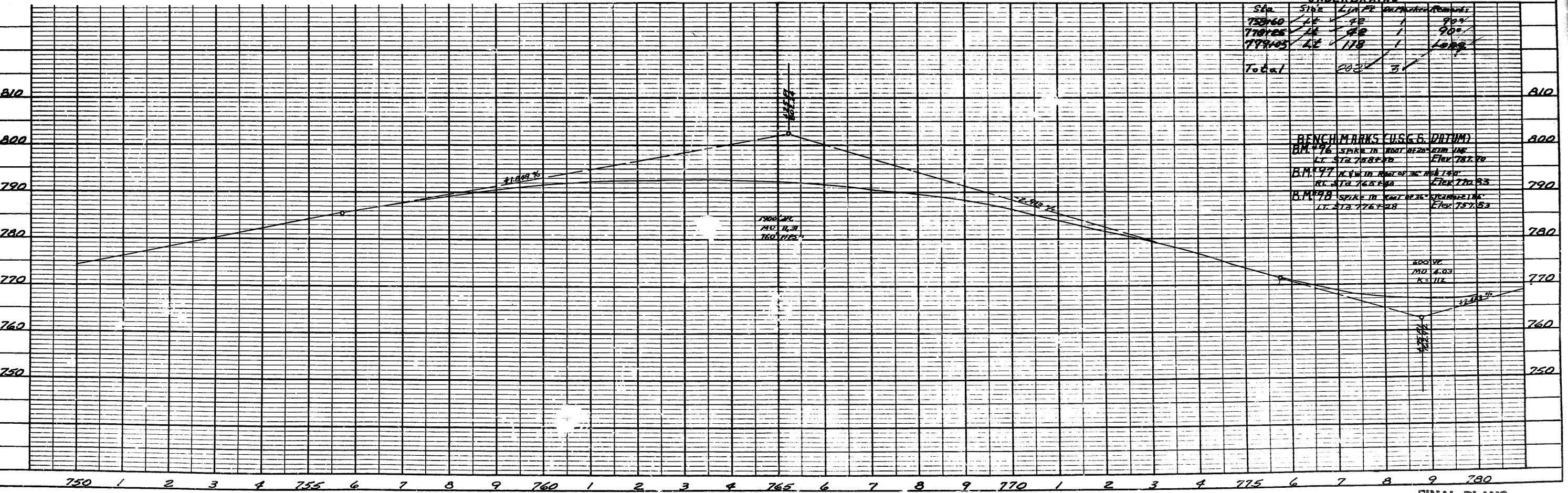


PRESTON R. AGNEW ET AL

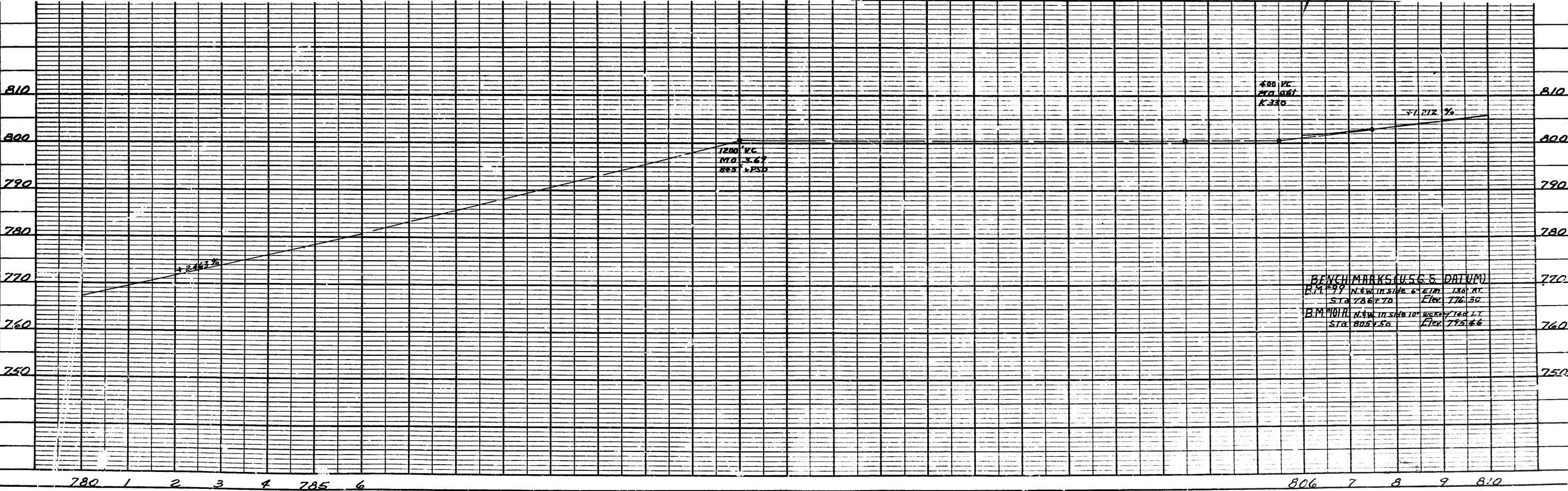
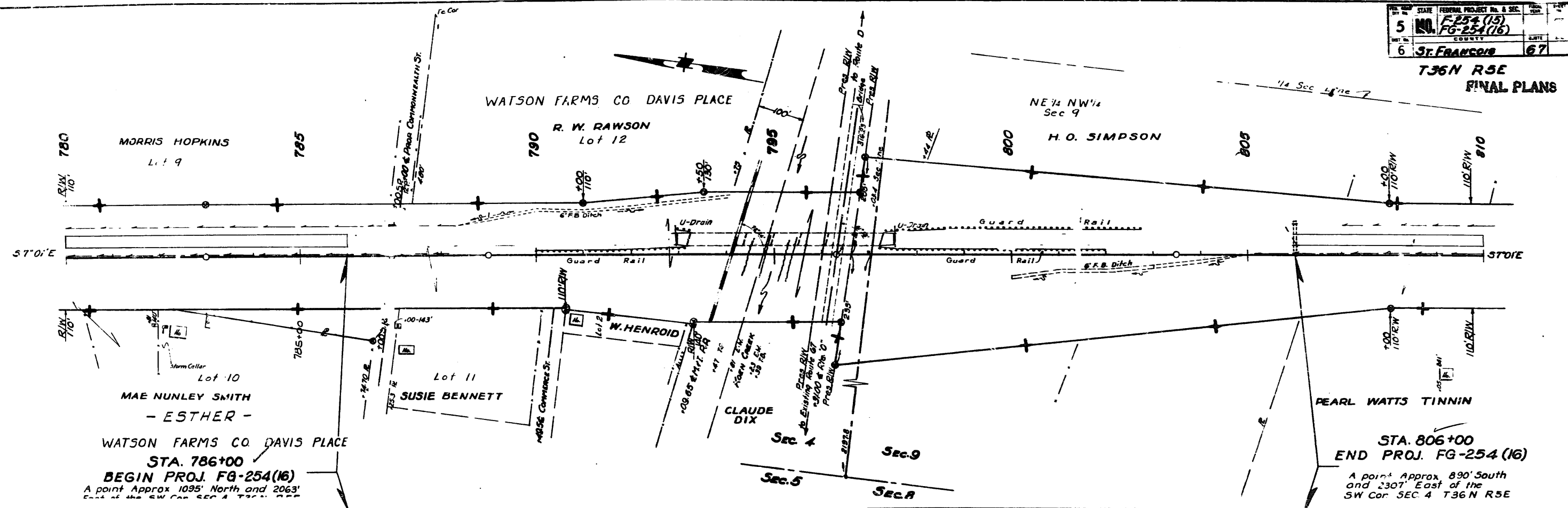


UNDERDRAINS				
Sta	Size	Length	Detention	Remarks
759+60	12"	92	1	90%
770+65	12"	92	1	90%
779+05	12"	118	1	long
Total		282	3	

BENCH MARKS (U.S.G.S. DATUM)		
B.M. #96	SPK = IN	WALL OF 28' ELM 116'
	LT. STA 758.70	ELEV 787.70
B.M. #97	N.F.W. IN	ROOF OF 36' RES 140'
	RT. STA 765.70	ELEV 720.33
B.M. #98	SPK = IN	WALL OF 36' ELM 116'
	LT. STA 776.70	ELEV 757.53

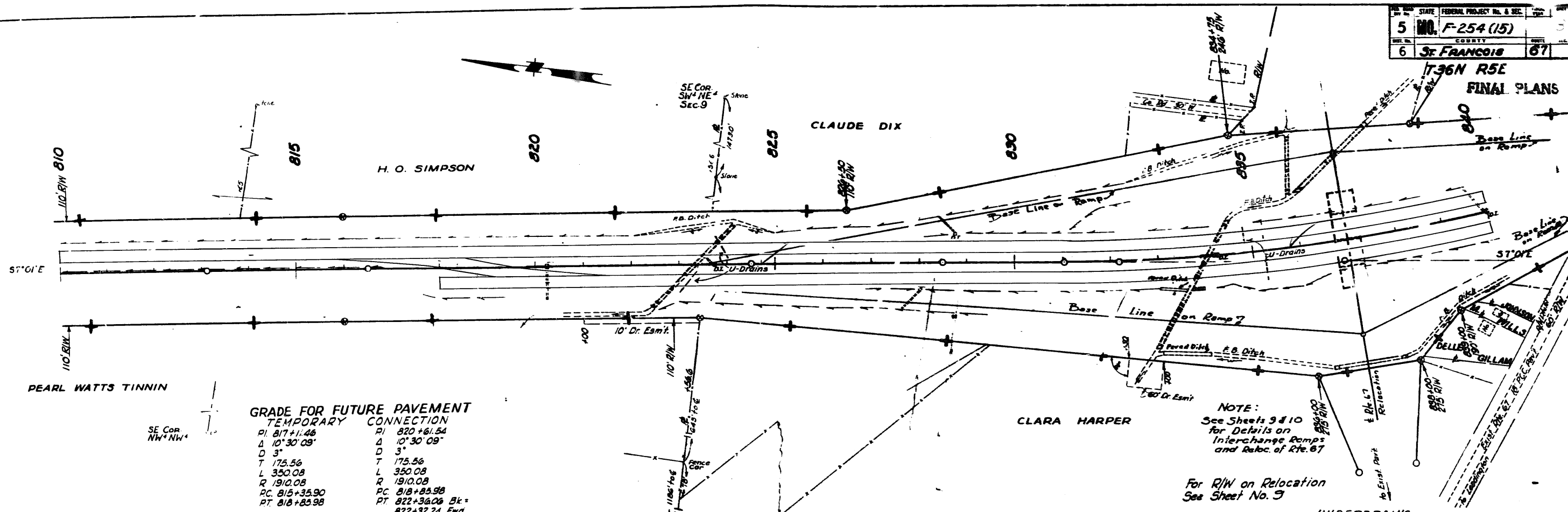


**T36N R5E  
FINAL PLANS**

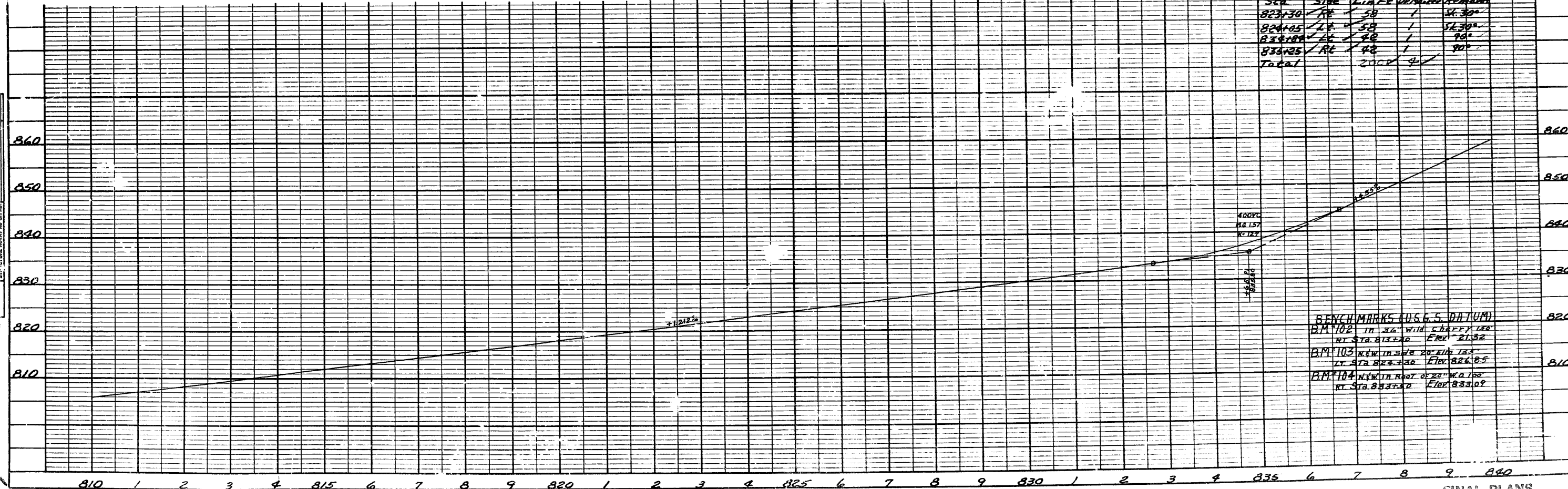


**BENCH MARKS (U.S.G.S. DATUM)**

B.M. 197	N.W. 1/4 Sec 10, T36N R5E	Elev. 776.50
B.M. 101	N.W. 1/4 Sec 10, T36N R5E	Elev. 775.46



UNDERDRAINS					
Sta	Side	Lin. Ft.	No. Pipes	Remarks	
823+30	RE	58	1	St. 30°	
824+05	LE	59	1	St. 39°	
833+08	LE	58	1	90°	
833+25	RE	48	1	90°	
Total		203	4		



BENCH MARKS AUGUST 5, 1907

B.M. #102	IN 34" WILD CHERRY 120'
RT. STA 813.50	FLY. 21.52
B.M. #103	NEW INSIDE 20" PIN 135'
RT. STA 824.730	FLY. 826.65
B.M. #104	NEW IN ROOT OF 20" WILD 100'
RT. STA 833.50	FLY. 833.09



P. Pole  
 24" P. Oak  
 N & W Side of Conc. S. Walk  
 P.I. 908+09.1  
 Δ 42° 48' LT  
 D 9'  
 T 249.75  
 L 475.56  
 E 47.1  
 R 637.28

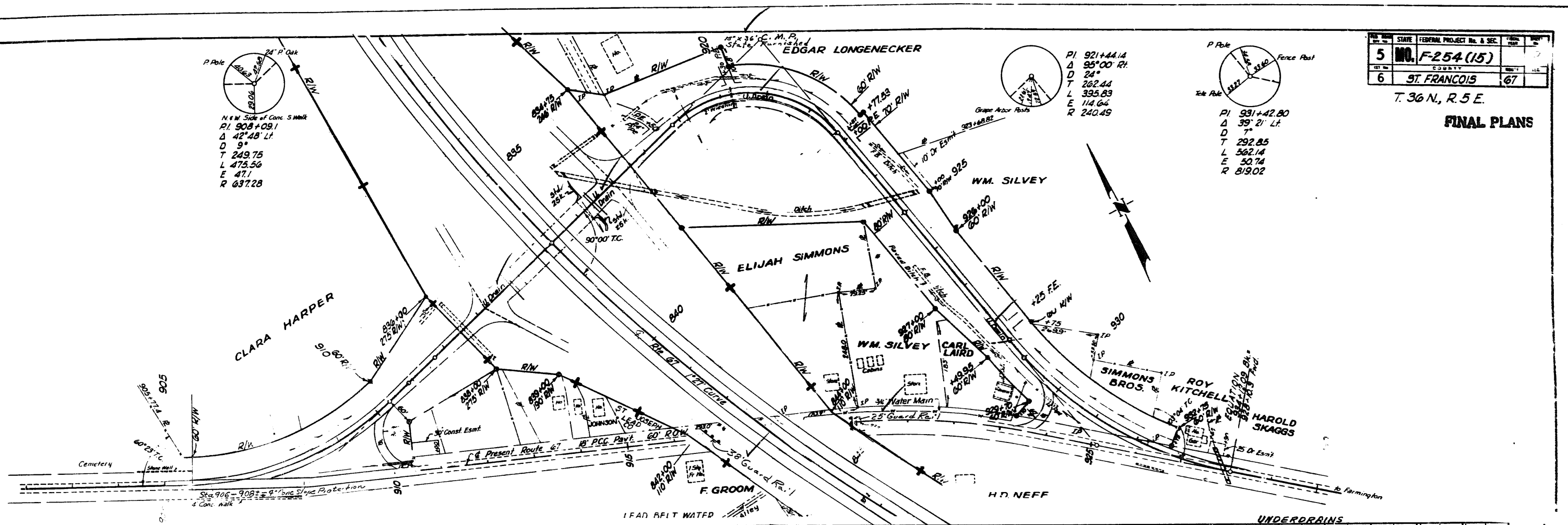
P.I. 921+44.14  
 Δ 95° 00' RT  
 D 24'  
 T 262.44  
 L 335.83  
 E 114.66  
 R 240.49

P. Pole  
 24" P. Oak  
 P.I. 931+42.80  
 Δ 39° 21' LT  
 D 7'  
 T 292.85  
 L 562.14  
 E 50.74  
 R 819.02

STATE	FEDERAL PROJECT No. & SEC.	SECTION
5 MO.	F-254 (15)	
6 ST. FRANCOIS		67

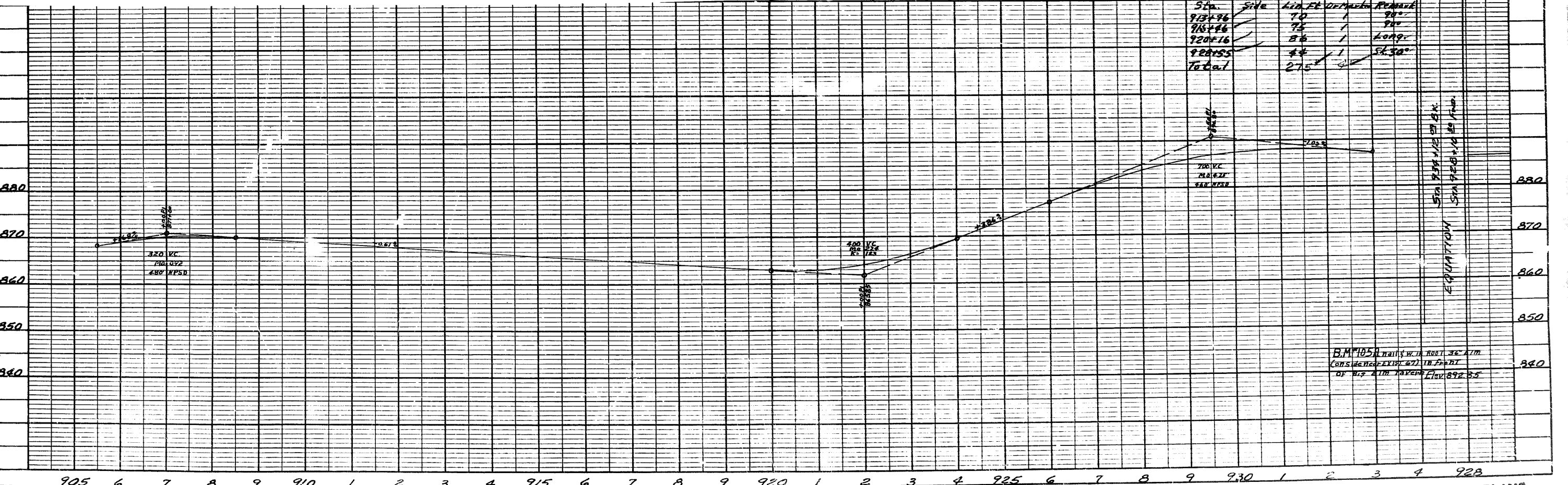
T. 36 N., R. 5 E.

FINAL PLANS



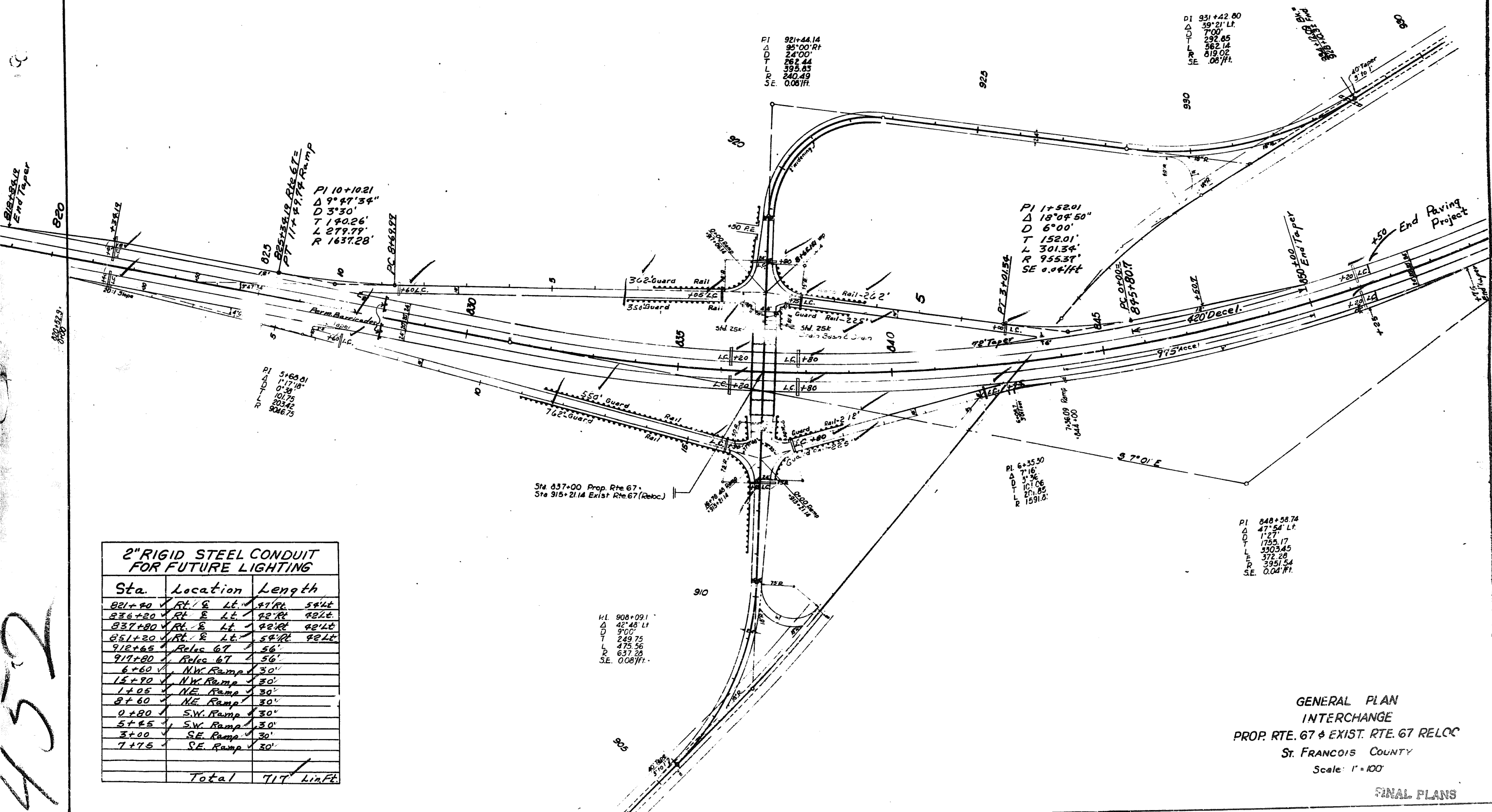
UNDERDRAINS

Sta.	Side	Lin. Ft.	Remarks
913+96	TO	1	90°
916+46	TO	1	90°
920+16	TO	1	Long
928+55	TO	1	56.30°
Total		4	





FINAL PLANS



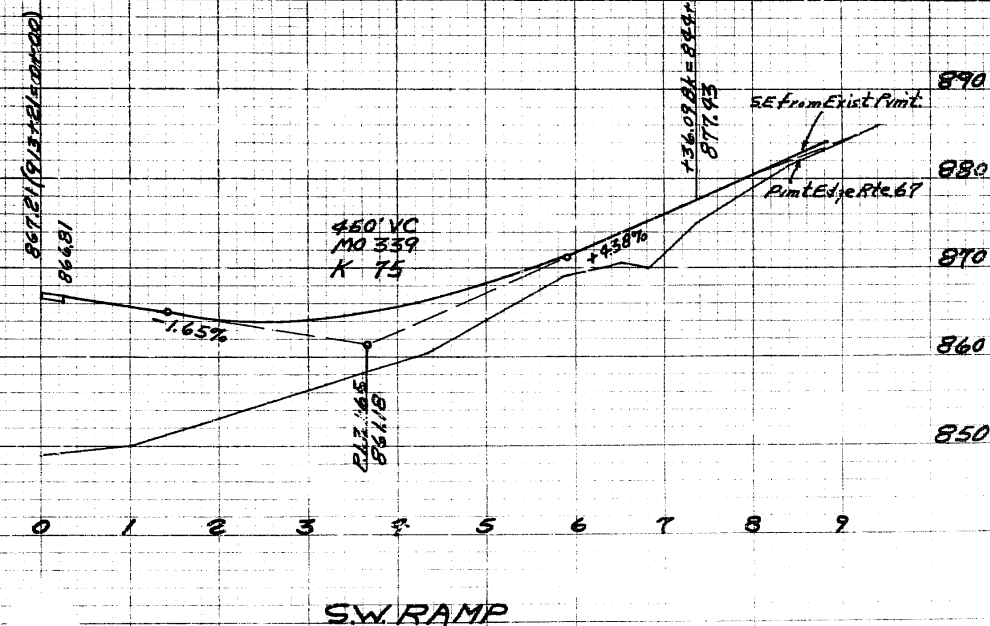
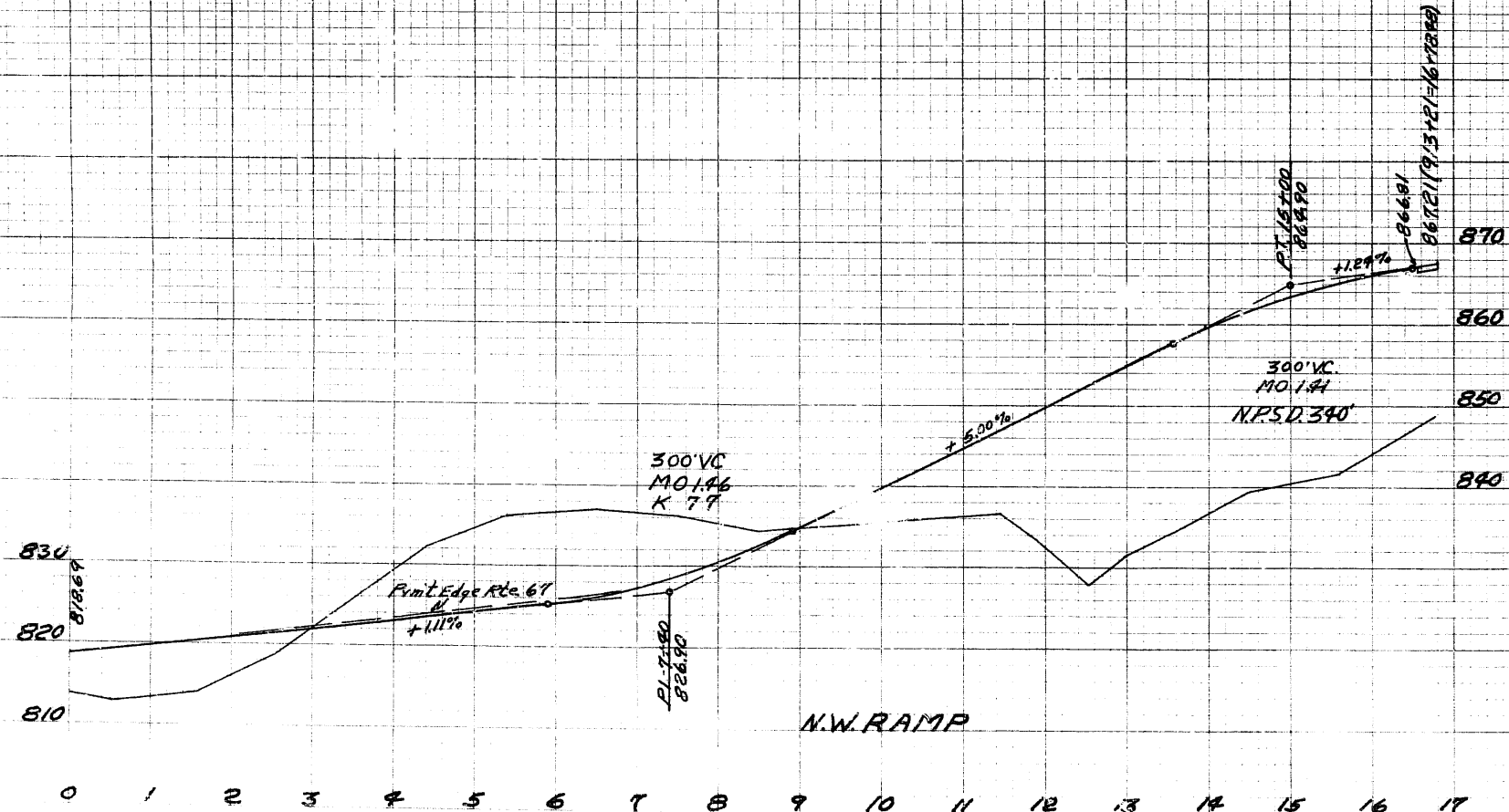
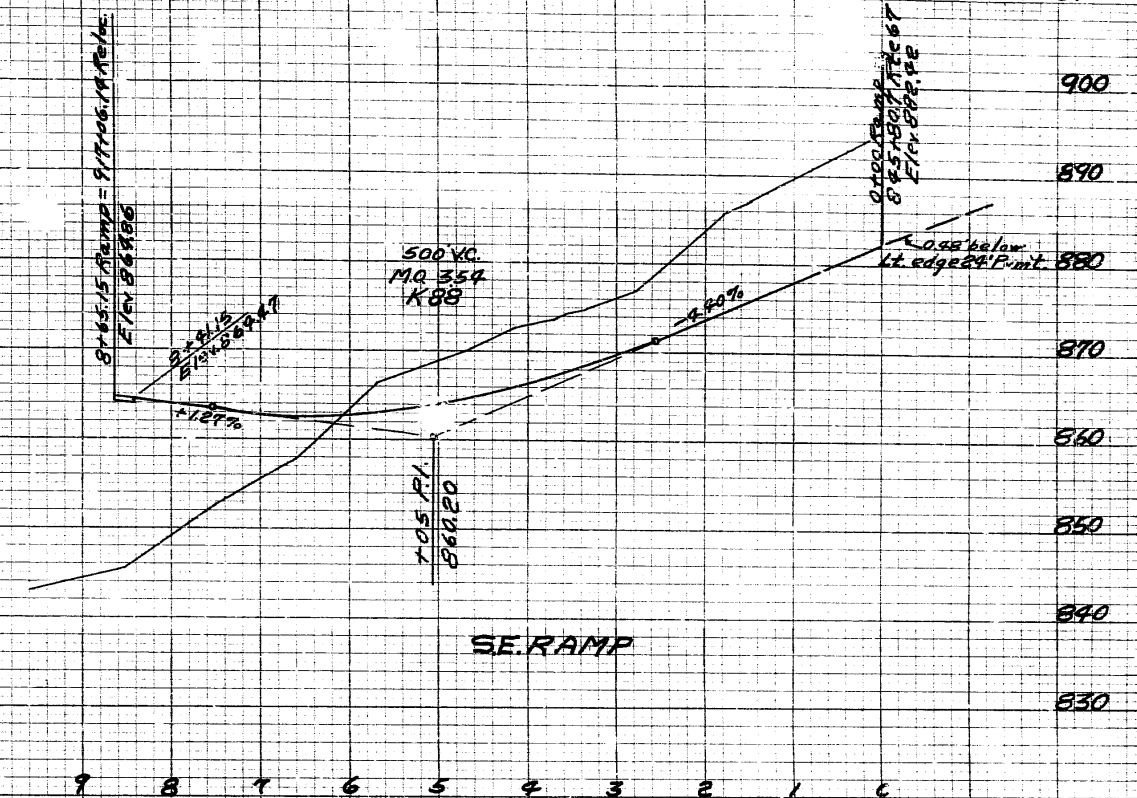
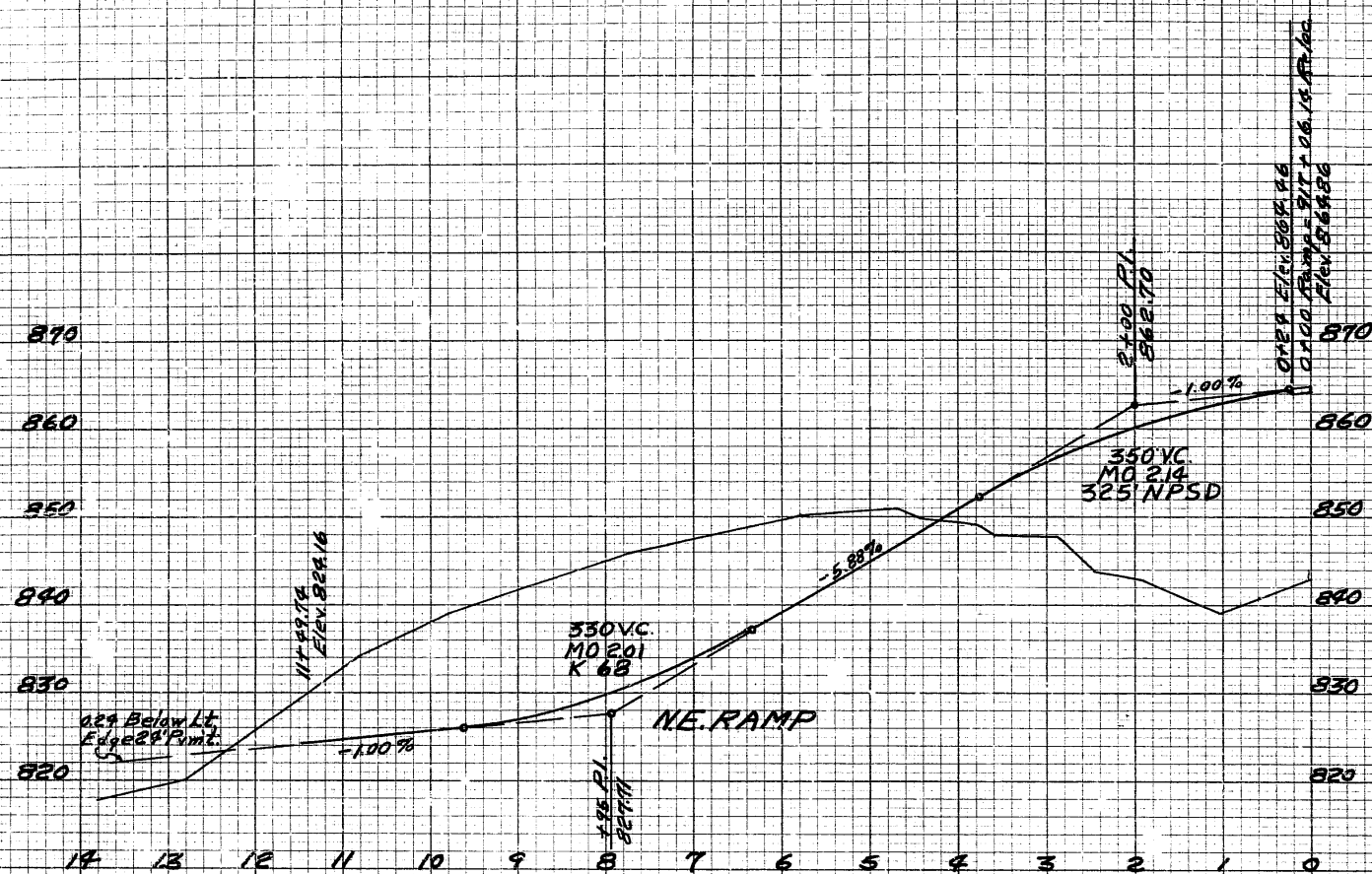
2" RIGID STEEL CONDUIT FOR FUTURE LIGHTING

Sta.	Location	Length
821+40	RT/E Lt.	47' Rt. 54' Lt.
836+20	RT/E Lt.	42' Rt. 42' Lt.
837+80	RT/E Lt.	42' Rt. 42' Lt.
851+20	RT/E Lt.	54' Rt. 42' Lt.
912+65	Reloc 67	56'
917+80	Reloc 67	56'
6+60	N.W. Ramp	30'
15+70	N.W. Ramp	30'
1+05	N.E. Ramp	30'
8+60	N.E. Ramp	30'
0+80	S.W. Ramp	30'
5+25	S.W. Ramp	30'
3+00	S.E. Ramp	30'
7+75	S.E. Ramp	30'
Total		717 Lin.Ft.

GENERAL PLAN  
INTERCHANGE  
PROP. RTE. 67 & EXIST. RTE. 67 RELOC  
ST. FRANCOIS COUNTY  
Scale: 1"=100'

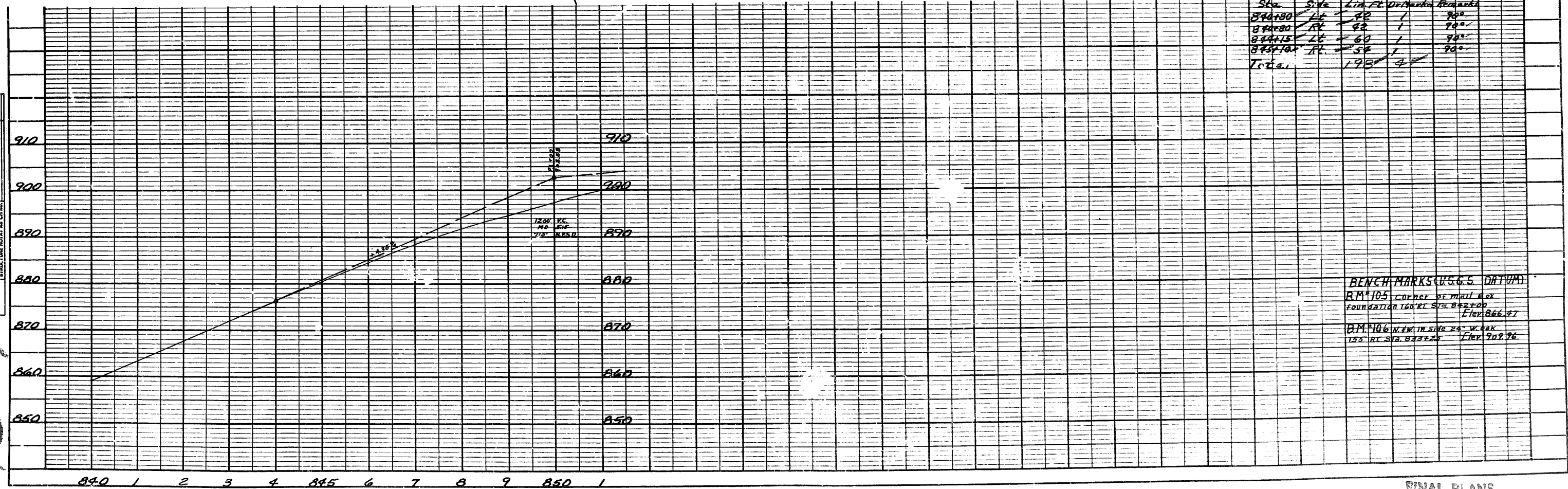
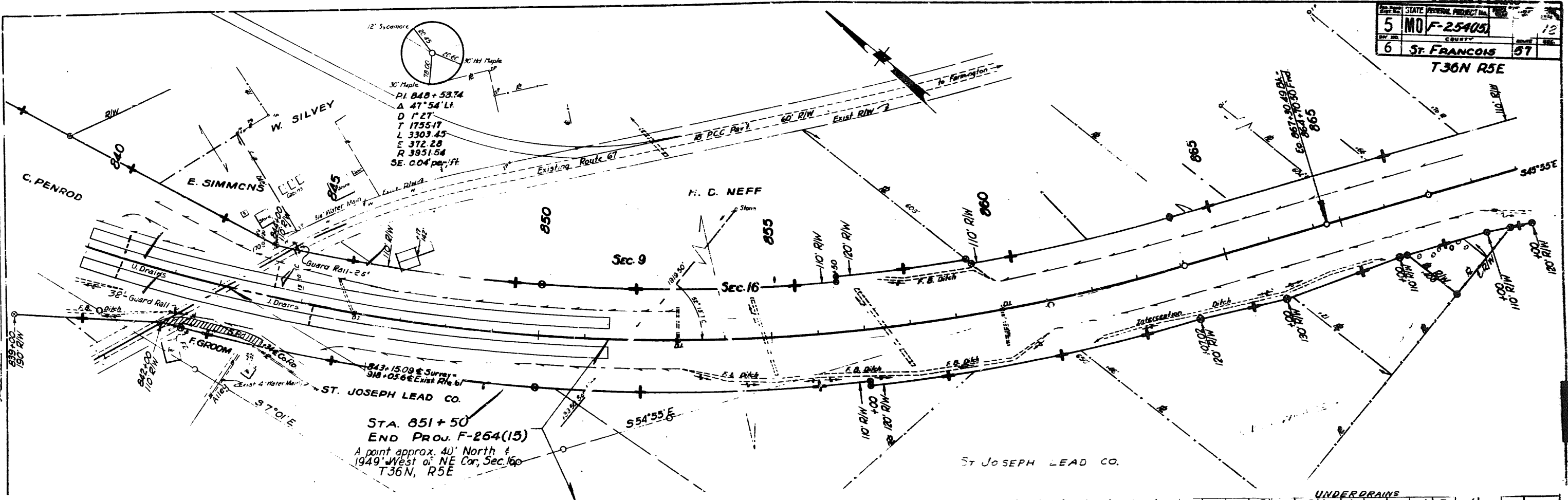
# FINAL PLANS

MO. F254(15) 11  
6 ST. FRANCOIS 67



RAMP GRADES  
INTERCHANGE  
Rte 67 & Old Rte 67 Reloc.

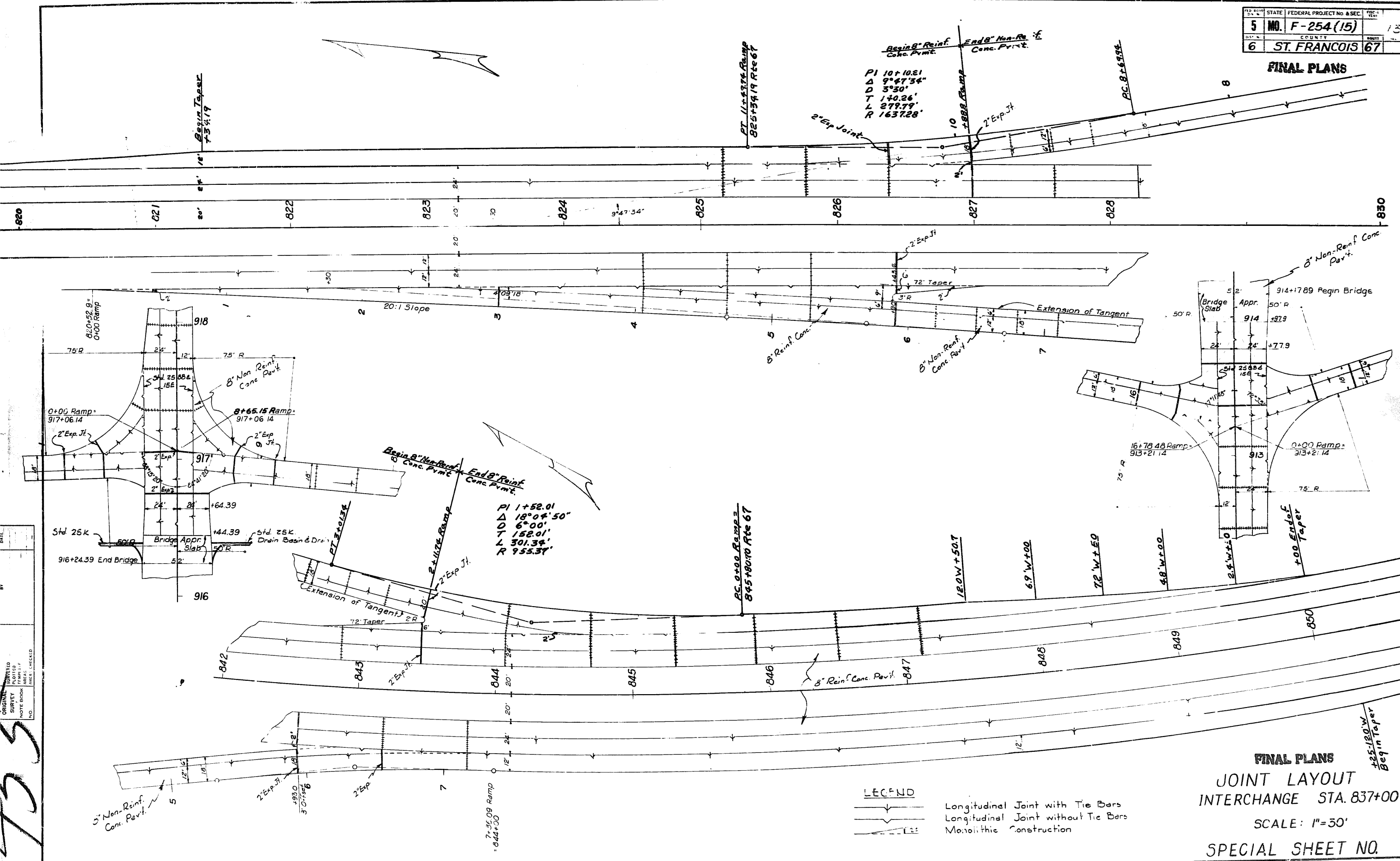
FINAL PLANS



**BENCH MARKS (U.S.C.S. DATUM)**  
 BM#105 corner of mail box  
 Foundation 160' RT Sta. 844+20  
 Elev. 866.47  
 BM#106 N.W. 1/4 in SW 24" W. oak  
 155' RT Sta. 844+20  
 Elev. 908.86

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR
5	MO.	F-254(15)	
DIST. NO.	COUNTY	ROUTE	NO.
6	ST. FRANCOIS	67	

## FINAL PLANS



**FINAL PLANS** +25  
Beg  
JOINT LAYOUT  
INTERCHANGE STA. 837+00  
SCALE: 1"=30'  
SPECIAL SHEET NO.

## LIST OF STANDARD PLANS

PROJ.	SHEET
F-254(15)	14
CO.	RTE.
ST FRANCOIS	67

[illegible]



PROJECT SUMMARY REPORT FOR SE0068 AS OF Jan 8, 2026

Work District	SOUTHEAST	Status	ONEDOT APPROVED	Version	APPROVED STIP	Project Manager	CHRISTOPHER CROCKER	Payment Project	N
Award Month/Award Year		Letting Date		Estimated Submittal Date	Feb 27, 2024	Let by	CENTRAL OFFICE	Letting Exclusion	N

Primary Route	US 67 S	County	ST. FRANCOIS
Description / Location	Interchange improvements and bridge replacement at Rte. 32 in Leadington.		
Reason / Remarks	Project involves bridge A0144.		
District Comments			

Total Estimated Cost for the Project									
Project Amounts	Typical Bridge	Major Bridge	Pavement	Safety	Mobility	Capital Improvement	Contingency	Other Non-Contractual	Right of Way Acquisition
	7,784			3,892			234		60
	Total Bridge	7,784		Total Contract Estimate		11,676	Total Construction	11,910	60
							Total Right of Way and Construction		11,970
								Total Engineering	2,001
								Total Project	14,788

Amount Programmed by SFY									
Yearly Program Amounts	Prior to 2026	2026	2027	2028	2029	2030	2031	Future	Project Total
Preliminary Engineering	751	500	500	150	100			1,250	2,001
Construction Engineering		0	0	0	817			817	817
Right of Way Acquisition	0	0	0	60	60			60	60
Construction		0	0	0	11,910			11,910	11,910
Total	751	500	500	210	12,827			14,037	14,788

How the District is Funding the Project									
Funding Category									
System Improvements - CN	0	0	0	0	11,910	0	0	0	11,910
System Improvements - RW	0	0	0	0	0	0	0	0	60
Total	0	0	0	0	11,910	0	0	0	11,970

Funding From Other Sources	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Funds Transfer	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Total Right of Way and Construction	0	0	0	60	11,910	0	0	0	11,970
Engineering	751	500	500	150	917	0	0	0	2,818

Funding From Other Sources - Engineering	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Funds Transer - Engineering	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Total Engineering	751	500	500	150	917	0	0	0	2,818
Total Project	751	500	500	210	12,827	0	0	0	14,037

Bridges	Bridge Count	1	Railroads Impacted	0	Improvement	Action	Detailed Work	Federal Funds Category	Initiatives
					BRIDGE		BRIDGE REHAB	NHPP	
					SAFETY	UPGRADE	INTERCHANGE RAMPS		

Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AADT	Conflict of Interest
US 67 S	91.546	91.946	ST.	N	15	PRIMARY	FREEWAY	Y	23,439	N

PROJECT SUMMARY REPORT FOR SE0068 AS OF Jan 8, 2026

Route	Begin Log	End Log	Begin County	TMA	Travelway ID	System	Functional Class	NHS	AADT	Conflict of Interest
US 67 N	105.793	106.189	ST.	N	14	PRIMARY	FREEWAY	Y	22,084	N

Lane Miles	1.615	Centerline Miles	0.4
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TIP Number	
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Planning Organization	Federal District	Senate District	House District
SE REG PLAN & ECON DEV COMM	8	3	117