

# SCALE



Map Projection:  
 NAD 1983 StatePlane Missouri East FIPS 2  
 Western Hemisphere; Vertical Datum: NAVD

**1 inch = 2,000 feet**

**FEMA**



**National Flood Insurance Program**

STE. GENEVIEVE  
 COUNTY, MISSOURI  
 and Incorporated Areas

PANEL 350 of 450

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
STE. GENEVIEVE COUNTY	290833	0425	E



FEMA

P0631 Br. Loc.

VERSION NUMBER  
 2.3.3.3

MAP NUMBER  
 29186C0350E

MAP REVISED  
 February 15, 2019

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at <https://msc.fema.gov>.

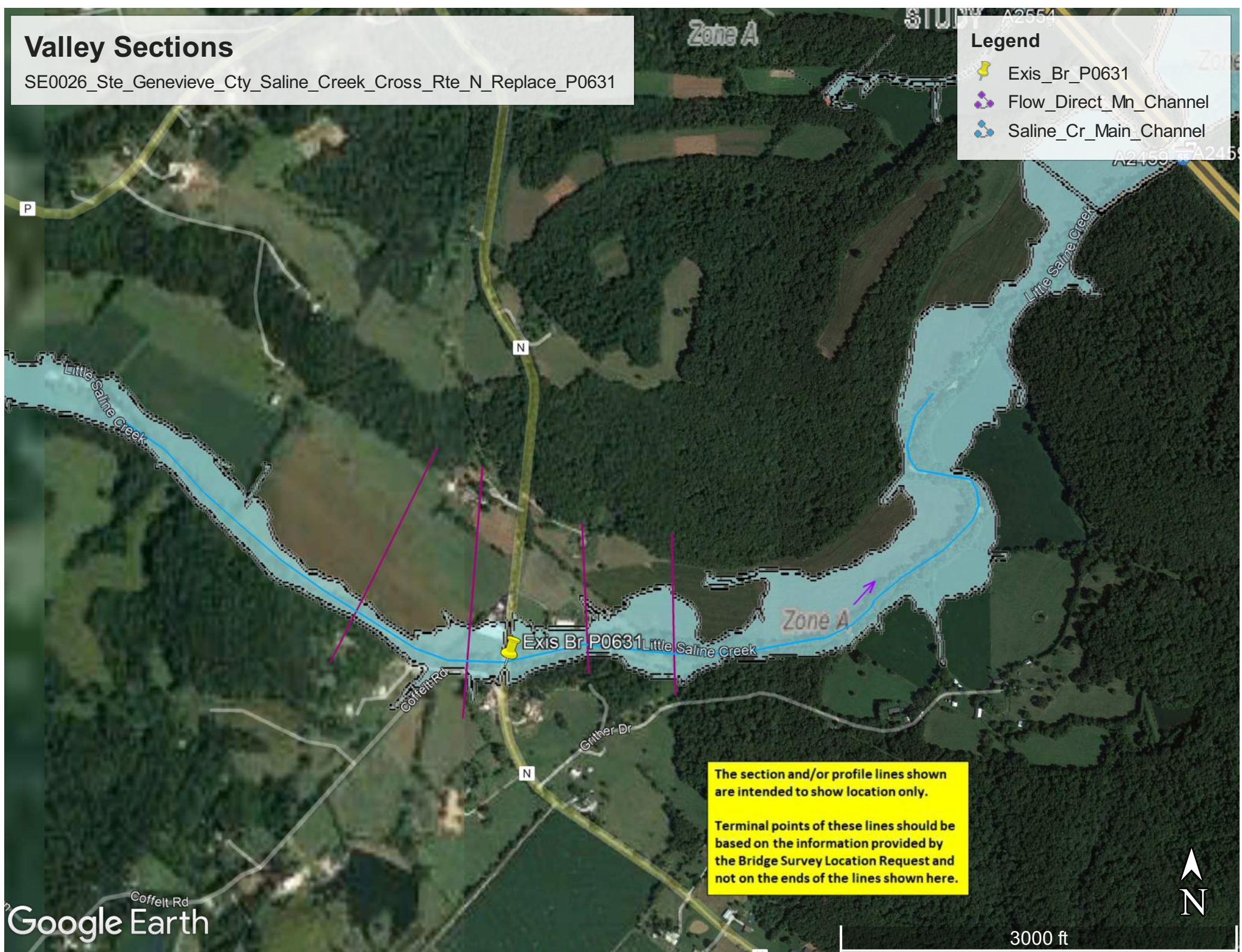


# Valley Sections

SE0026\_Ste\_Genevieve\_Cty\_Saline\_Creek\_Cross\_Rte\_N\_Replace\_P0631

## Legend

- Exis\_Br\_P0631
- Flow\_Direct\_Mn\_Channel
- Saline\_Cr\_Main\_Channel



The section and/or profile lines shown are intended to show location only.  
Terminal points of these lines should be based on the information provided by the Bridge Survey Location Request and not on the ends of the lines shown here.

## Missouri Department of Transportation Bridge Survey Location Request

Page 1 to be completed by District staff.

Bridge over: Saline Creek Route: N  
 County: Ste. Genevieve Section: Survey 3060 Township: 36 North Range: 9 East  
 Latitude: 37°50'46.87"N Longitude: 90°1'54.87"W  
 District Contact: Garrett Galyean (573-472-5221) Date: 5/4/2023

### HIGH WATER ELEVATIONS AT PROPOSED BRIDGE SITE

Recorded high water elevations or elevation of high water marks

Extreme High Water (EHW) (Give date(s) of occurrence)		
Elevations and date(s) of same	Location	Source of information
9.0" Below (1991)	Below South End of Bridge Floor	HW Book 8183
Existing Bridge Overtopped <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown		Existing Roadway Overtopped <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown
Approx. Overtopping Location(s):		

### LOCATION OF NEW BRIDGE

Replace in Existing Location	<input checked="" type="checkbox"/>	Provide details of any proposed changes to profile grade below or as an attachment.
Relocation (near existing Structure)	<input type="checkbox"/>	Provide details of proposed location and grade of the roadway across the floodplain, any proposed/potential channel changes or modifications, etc. below or as an attachment.
New Route	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	

Additional Information:

page 2 & subsequent pages to be completed by Bridge Division

Note: Proposed elevations, distances, etc. are based on the best available data at the time the form was completed. Actual field conditions or recently acquired data may require deviation from the proposed values. Please contact the Bridge Division with concerns regarding the proposed values or if large deviations from these values are required.

Note: The information below supplements the survey requirements noted in the EPG, please consult EPG 238 for additional surveying requirements.

Survey Type: **1D Survey**

<b>Stream Crossing Survey Location Details (1D)</b>						
<b>Item</b>		<b>Requirement</b>	<b>Standard Guidance</b>		<b>Specific Guidance</b>	
<b>Profiles*</b> (EPG 238.3.36.1.3)	C/L Profile	Terminal Point	Limit of Longest offset Profile		Use Standard Guidance	
	Upstream Offset Profile	Terminal Point	Same as Valley Sections		Elevation =	440
		Offset Distance	On Natural Ground		Estimated Distance =	30 ft.
	Downstream Offset Profile	Terminal Point	Same as Valley Sections		Elevation =	440
		Offset Distance	On Natural Ground		Estimated Distance =	30 ft.
Special	N/A					
<b>Streambed Profiles**</b> (EPG 238.3.36.3.6)	Length	Natural Stream	Section limits (Min. of 1000' each side of crossing.)		Use Natural Stream Guidance	
		Drainage Ditch	500' Each Side of Crossing			
	Elevation Intervals	Within 1000' of Crossing	Nat. Stream 25' Drain. Ditch 50'		Use Natural Stream Guidance (see EPG 238.3.36.3.6 if a significant slope change is encountered)	
		Beyond 1000' from Crossing	At Vertical and Horizontal Break Points (200' max.)			
<b>Valley Sections</b> (EPG 238.3.36.3.8), (EPG 750.3.1.1)	Terminal Point	Natural Stream	5' above EHW		Elevation =	440
		Drainage Ditch	25' Beyond Bankside Toe of Levee		Distance =	N/A

<b>Item</b>	<b>Requirement</b>	<b>Standard Guidance</b>		<b>Specific Guidance</b>	
<b>Water Surface Profile</b> (EPG 238.3.36.3.7)	<b>Water Surface Profile Data Needed?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Locations with flowing water	Drainage Ditch	100' and 200' each side of Crossing		Use Water Surface Profile Standard Guidance

<b>Item</b>	<b>Requirement</b>	<b>Standard Guidance</b>		<b>Specific Guidance</b>	
<b>Typical Channel Sections</b> (EPG 238.3.36.3.9)	<b>Typical Channel Section Data Needed?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Within 300' each side of Centerline	Provide when Needed (i.e., Culvert on Perennial and Intermittent Stream)			

<b>Item</b>	<b>Requirement</b>	<b>Standard Guidance</b>		<b>Specific Guidance</b>	
<b>Existing Bridge Data</b>	<b>Existing Bridge Data Needed?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Description	Provide General Description		N/A	



Item	Requirement	Standard Guidance	Specific Guidance	
Other Bridges (EPG 238.3.36.3.10)	Other Bridge Data Needed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Description	Provide General Description	N/A	
	Profile Location	C/L Structure	N/A	
	Profile Terminal Point	5' above EHW	Elevation =	N/A

\* additional profiles may be needed for relocated routes

\*\* at confluent streams provide proposed data for both streams as appropriate.

**Additional Information:**

**Additional Documents Provided:**

Image & kmz file showing Valley Section Locations.

**Roadway Design Notes for Bridge Survey:**

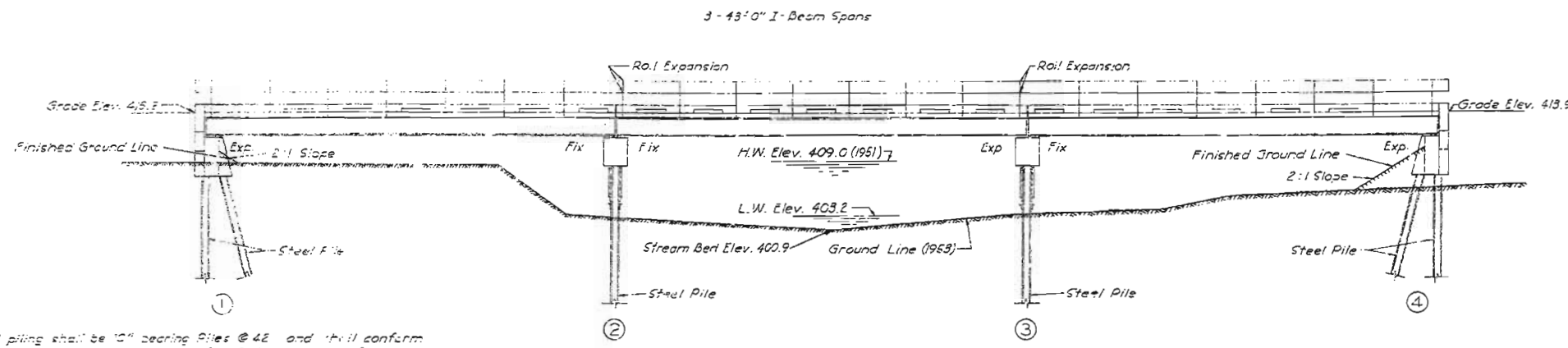
The Bridge Survey should include all the pertinent items listed in [EPG 747](#) and the [Bridge Survey Checklist](#).

**Bridge Design Notes:**

TMS Flood Report Data, FEMA Zone A or FIS Data FM29186C0350E, Special Conditions. etc.

# MISSOURI STATE HIGHWAY DEPARTMENT

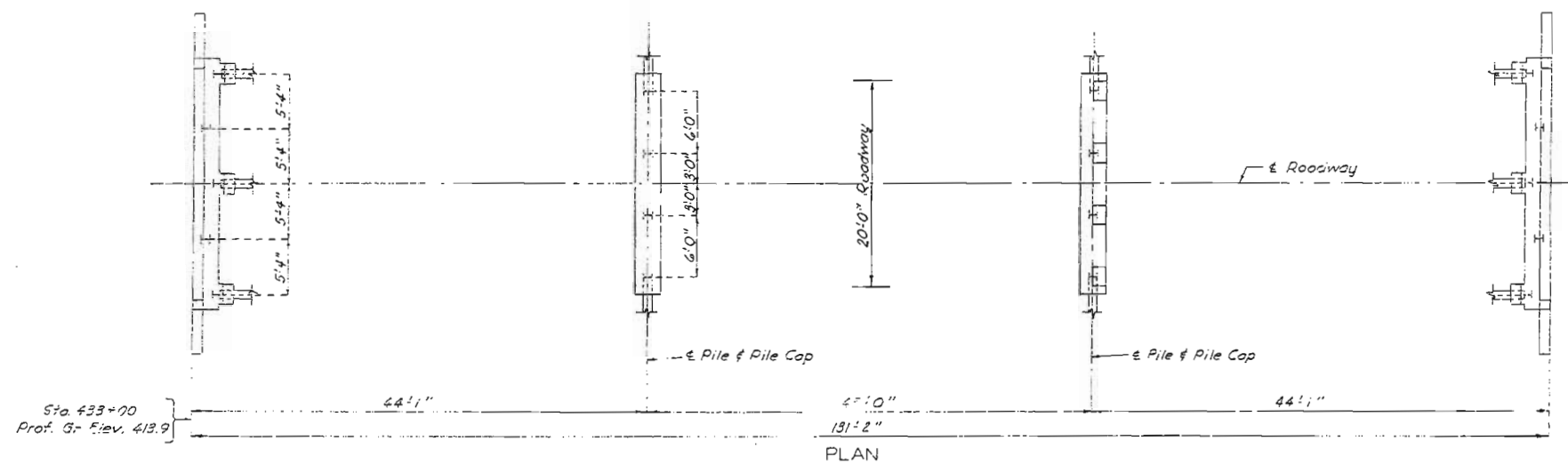
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	2-25-57 Sec. 7-57	19		



GENERAL ELEVATION

*Notes:* All piling shall be 12" bearing piles @ 42' and shall conform with details and notes on sheet No. 2 of design plans. Estimated Quantities shown on plans are based on the following lengths: 10 @ 35' 0" and 6 @ 40' 0". These indicated lengths are approximate only. Proper lengths to give required bearing and for penetration will be authorized by the Engineer.

All piles shall be driven to or into solid rock, boulders, shale, or cemented gravel; or to not less than full length authorized and to sustain a load of at least 50 tons per pile. A gravity hammer may be used for driving if desired.



PLAN

COMPLETE BILL OF REINFORCING STEEL						
No.	Size	Length	Mark	Location	Bending Sketches & Cutting Diagrams	
End Bents No. 1 & 4						
4	#6	22'3"	H1	Bk. Wall		
6	#6	22'3"	H2	"		
16	#6	24'0"	H3	Beam		
8	#6	24'0"	H4	"		
12	#6	24'0"	H5	Wing		
4	#6	3'6"	H6	"		
3	#6	3'9"	H7	"		
8	#6	3'9"	H8	"		
96	#4	7'9"	U1	Beam		
16	#4	3'3"	U2	"		
48	#7	7'3"	U3	"		
12	#7	7'3"	U4	"		
16	#7	7'0"	U5	"		
88	#6	4'6"	V1	Bk. Wall		
24	#4	3'9"	V2	Beam		
8	#4	3'9"	V3	Wing		
4	#6	7'3"	V4	"		
Substructure						
172	#5	2'9"	C1	Curb		
24	#6	23'3"	C2	"		
12	#6	22'9"	C3	"		
262	#4	22'0"	S1	Slab		
131	#4	24'0"	S2	"		
128	#4	22'9"	S3	"		
64	#4	22'3"	S4	"		
Init Bents No. 2 & 3						
16	#6	23'3"	M7	Beam		
4	#6	2'15"	M8	"		
12	#6	3'9"	U6	"		
88	#4	6'6"	U7	"		
Superstructure						
172	#5	2'9"	C1	Curb		
24	#6	23'3"	C2	"		
12	#6	22'9"	C3	"		
262	#4	22'0"	S1	Slab		
131	#4	24'0"	S2	"		
128	#4	22'9"	S3	"		
64	#4	22'3"	S4	"		

ESTIMATED QUANTITIES			
Item	Substr.	Superstr.	Total
Class "B" Concrete	Cu. Yds. 38.8	62.6	101.4
Reinforcing Steel	Lbs. 4,790	10,590	15,380
Fabricated Structural Steel	Lbs. 1,490	51,590	53,080
Steel Piles in Place	Lin. Ft. 416		416
Steel Pile Cut-offs	Lin. Ft. 54		54
Gray Iron Alloy Castings	Lbs. 1,280		1,280

*Note:* Estimated Quantities of Fabricated Structural Steel Substructure is for angle sway bracing on interior bents.

**GENERAL NOTES:**

Design Specifications A. A. S. H. O. - 1958  
 Loading M10-44  
 Class "B" Concrete Stress 1000 #/sq.  
 Reinforcing Steel Stress 18,000 #/sq.  
 Structural Steel Stress 12,000 #/sq.  
 All concrete shall be Class "B".  
 Rivets 3/4" #; Nuts 3/4" # except in handrail where rivets shall be 1/2" #, holes 1/2" #. Field connections shall be riveted, or if the Contractor desires to eliminate all field riveting on this project, he may use machine bolts except for the 3/4" # button head bolts specified for handrail. Nuts and nuts of machine bolts shall be American Standard Regular.  
 Paint: Shop, none. Field contact surfaces of bolted field connections one coat of red lead and surfaces inaccessible after erection three coats of red lead. No other paint to be applied by the Contractor except as noted for Steel Pile. Red lead required shall be furnished by the Contractor. Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.  
 Where joint filler is specified on plans it shall conform with the requirements for Premoulded Material for filler as given in Section 88-19A(1) of the Standard Specifications.  
 For requirements on welding electrodes see Special Provisions. Qualification of welding operators will be required.

Surfaces of piles at Bents No. 1 and 4 from bottom of concrete cap to 3' 0" below present ground line shall be painted with one coat of an approved brand of emulsified asphalt paint. Payment for excavating ground piles below present ground line and backfilling same, furnishing emulsified asphalt paint and cleaning and painting steel surfaces specified will be included in the unit price bid for other items.

S.M. #12 Elev. 403.15 N/W in root "B" Elm. 200' W. Sta. 432+55 (U.S.G.S. Datum)

**BRIDGE OVER LITTLE SALINE CREEK**  
 STATE ROAD FROM ROUTE 142 NORTH TO STE. GENEVIEVE  
 ABOUT 1/2 MILE S. OF STE. GENEVIEVE  
 PROJECT NO. S-30205EN AC 100 STA. 433+00  
 STE. GENEVIEVE COUNTY

SUBMITTED BY: *J.A. Williams* DATE: 2/17/1955  
 APPROVED BY: *Ray M. Whittier* DATE: 2/17/1955  
 ENGINEER  
 CHIEF ENGR. SEC.

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CURVE DATA  
 P.I. 427+35.1  
 L 615.2' Rt.  
 D 6'  
 T 572.5'  
 L 1031.1'  
 P 955.4'  
 E.E. 7.061ft.

LOCATION SKETCH

Drawn July 1954 by H.M.W.  
 Checked April 1954 by C.S.P.

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

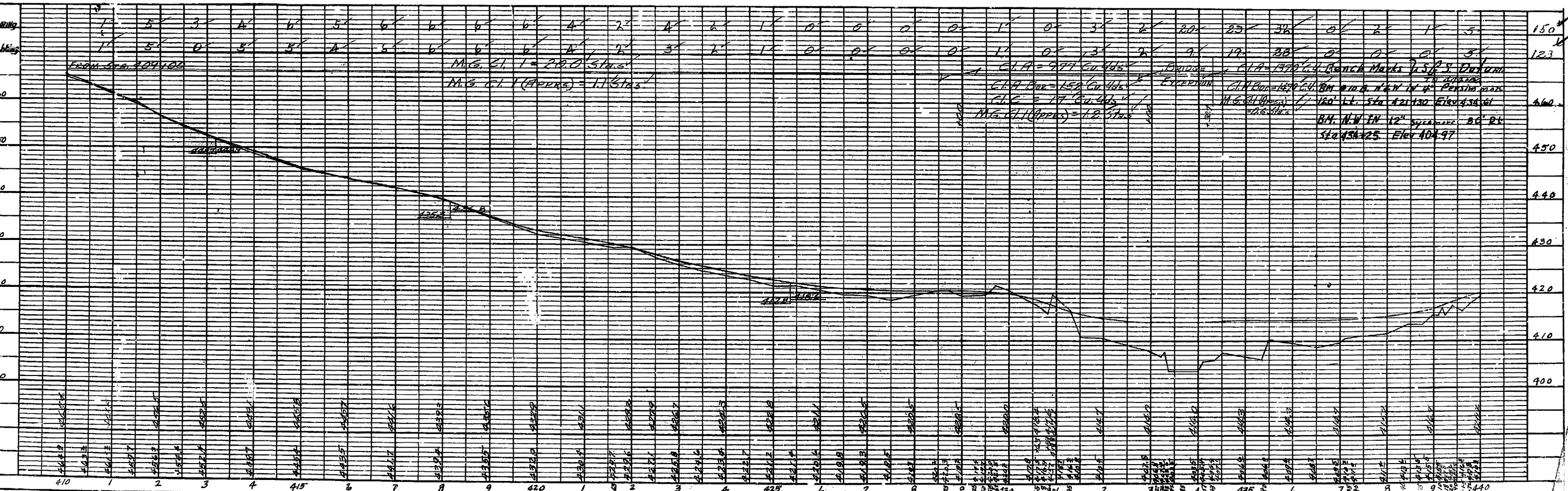
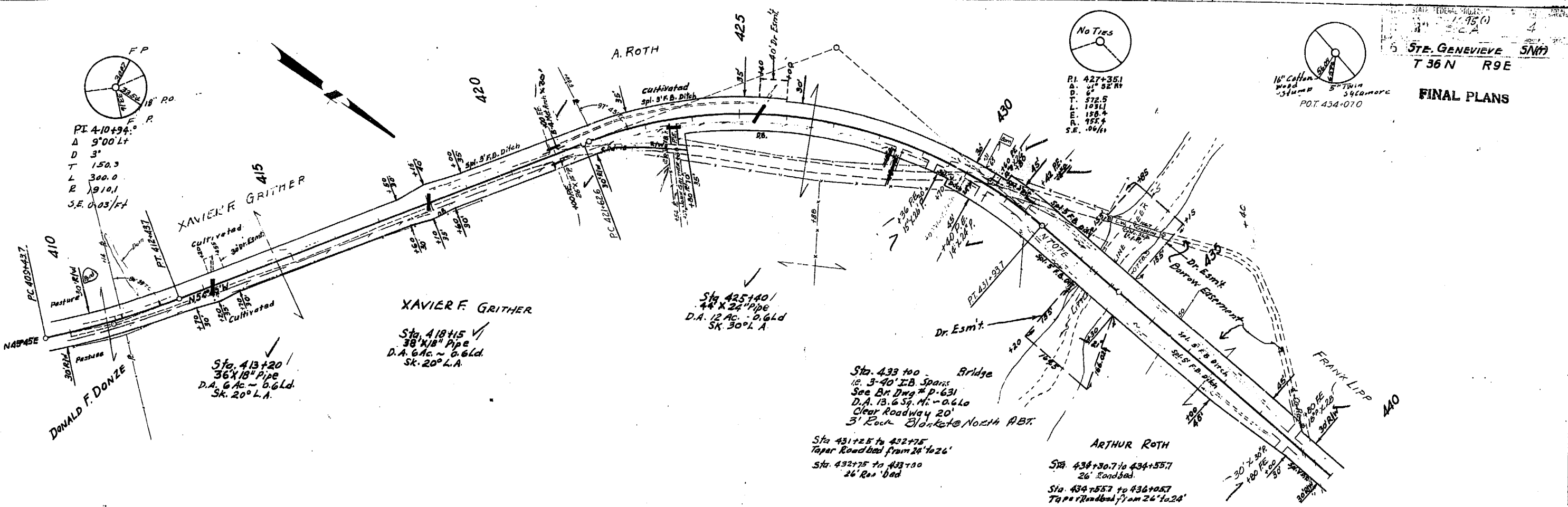
Sheet No. 1 of 4

SEE FINAL PLANS BROWN-LINES

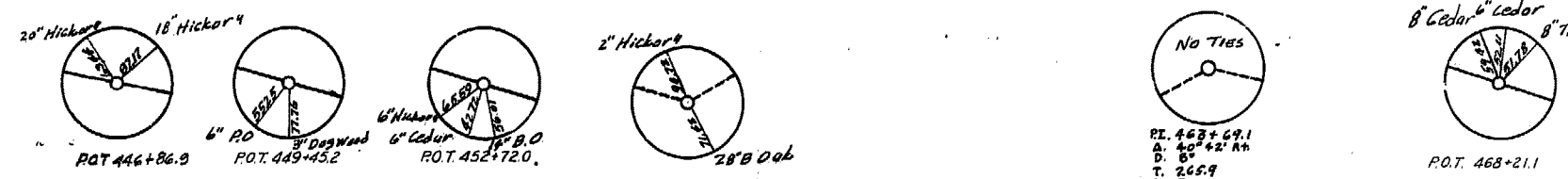
STG CH 031  
 R631



FINAL PLANS

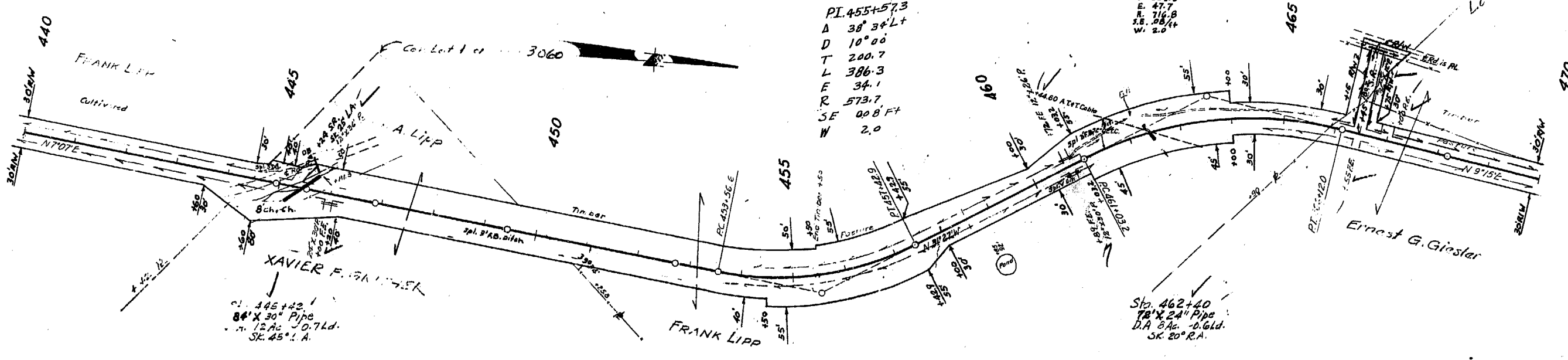






PI. 455+57.3  
 Δ 38° 34' Lt  
 D 10° 00'  
 T 200.7  
 L 386.3  
 E 34.1  
 R 573.7  
 SE 008' Ft  
 W 2.0

PI. 463+69.1  
 Δ 40° 42' Rt  
 D 6° 00'  
 T 265.9  
 L 508.8  
 E 47.7  
 R 716.8  
 SE 088' ft  
 W 2.0



Note: Sta 462+44.6 Do not cut ditches on right or left of A.T. & T. cable crossing

