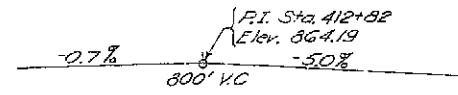


MISSOURI STATE HIGHWAY DEPARTMENT

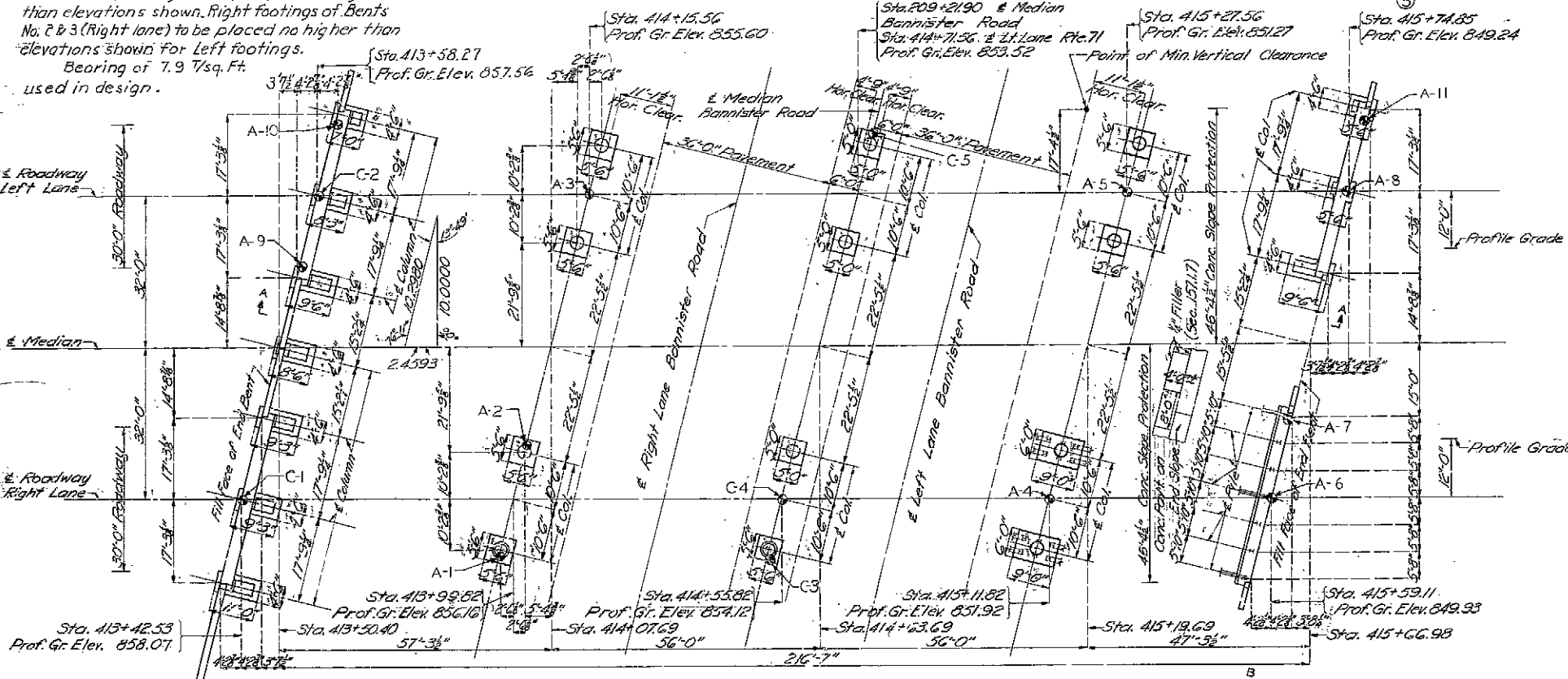
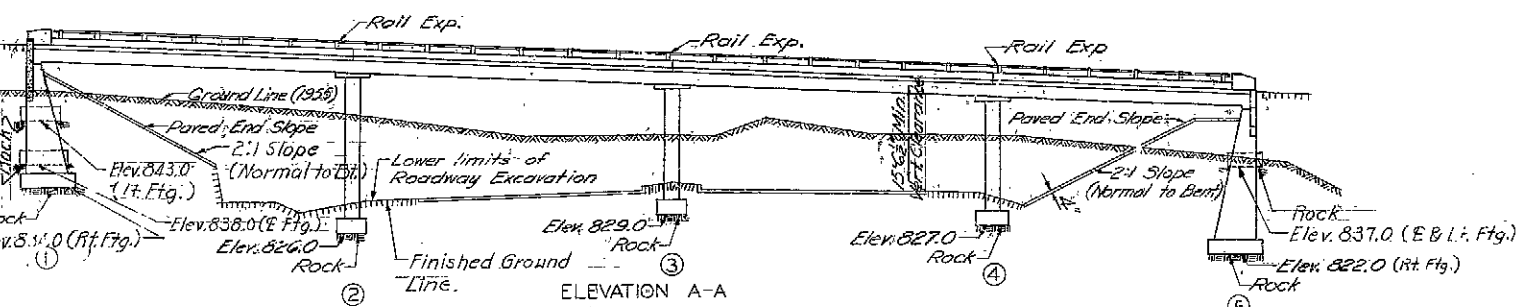
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	96	

GENERAL NOTES:
 Design Specifications: A.A.S.H.O. - 1957
 Loading: H-20-S16-44 (15%sq. ft. Future Wearing Surface)
 Reinforcing Steel Stress: 20,000 #/sq. in.
 Concrete, Class B Stress 1,200 #/sq. in.
 Concrete, Class B1 Stress 1,600 #/sq. in.
 Superstructure concrete shall be Class B1 Air-Entrained
 Substructure concrete shall be Class B Air-Entrained



(Twin) 56'-56'-56'-46' Continuous Slabs (Voided)

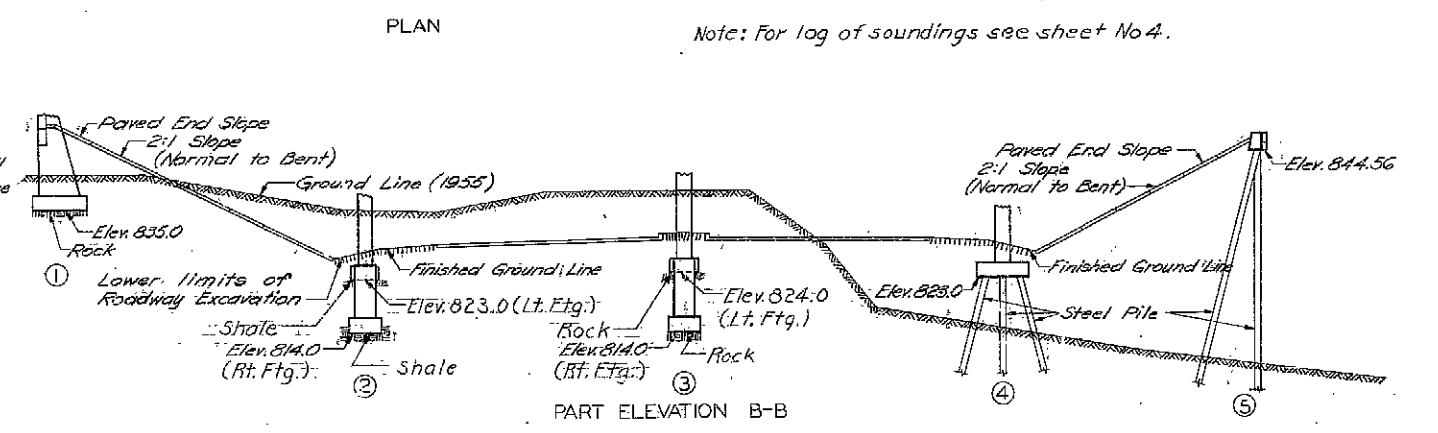
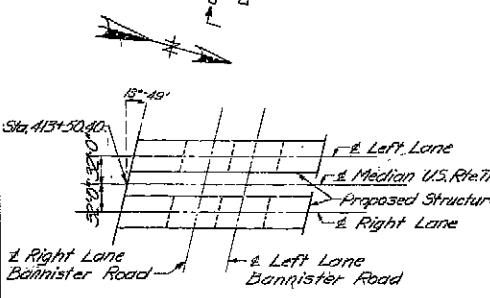
Note: All loose shelly or disintegrated rock shall be removed and the footings of Bents #1 & #5 (Left lane) shall be placed on hard solid undisturbed rock. Footings of Bents #2, #3, #4 (Left lane) and #2, #3 (Right lane) shall be carried at least 5' into hard, solid, undisturbed rock and cast against vertical faces of same. If soft rock or shale is encountered, the footings shall be carried at least 13' into and cast against vertical face of same.
 In no case shall footings of Bents No. 2, 3 & 4 (Left lane), and left footing of Bents No. 2 & 3 (Right lane) be placed higher than elevations shown. Right footings of Bents No. 2 & 3 (Right lane) to be placed no higher than elevations shown for left footings.
 Bearing of 7.9 T/sq. Ft. used in design.



Note: Compacted roadway fill (full roadway width) shall be placed up to elevation of bottom of concrete beam in front of and not less than 25'-0" in back of End Bent No. 5 (Right Lane) before steel piles are driven for Bents No. 4 and 5 (Right Lane).
 All piling shall be 10" bearing piles of 42# and shall conform with details and notes on sheet No. 8 of design plans. Estimated quantities shown are based on the following lengths: 12' at 50'-0" and 7' at 60'-0". These indicated lengths are approximate only. Proper lengths to give required bearing and/or 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 35 tons per pile.
 All piles shall be driven with a power hammer.
 Concrete slope protection and filler to be included under road contract. Provide 1/2" filler between slope protection and end bents. (See Section 157.17.)

Item	ESTIMATED QUANTITIES		
	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu. Yds. 510		510
Class B Concrete	Cu. Yds. 223.6		223.6
Class B1 Concrete	Cu. Yds. 1106.3		1106.3
Reinforcing Steel	Lbs. 19350	235,070	254,420
Bridge Rail (Single Tube Type)	Lin. Ft. 832		832
Steel Piles in Place	Lin. Ft. 723		723
Steel Pile Cut-offs	Lin. Ft. 57		57

Note: All excavation for bridge will be paid for as Class I Excavation for Structures. Estimated quantities of Class I Excavation for Structures includes only amount of excavation below lower limits of Roadway Excavation.
 All concrete and reinforcement in End Bents and in footings and pedestals for intermediate bents is included in Substructure quantities.



BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY FINISHED
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-FG-353(22)(RT. 71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

FINISHED
 SUBMITTED BY: *Leo F. Probert* DATE: 10-10-60
 APPROVED BY: *Ref. M. Whittine* DATE: 10-10-60
 BRIDGE ENGINEER
 CHIEF ENGINEER

Drawn OCT. 1957 by H.M.M.
 Checked Dec. 1957 by H.W.K.

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

Sheet No. 1 of 10.

SEE FINAL PLANS BROWN LINES

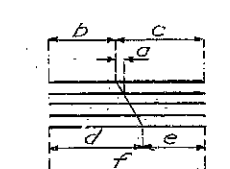
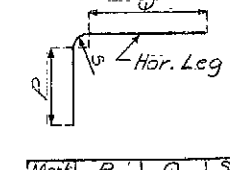
STD: 54.00
 L-842

505

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	37	

COMPLETE BILL OF REINFORCING STEEL

SUBSTRUCTURE					SUBSTRUCTURE					SUBSTRUCTURE					Bending Sketches & Cutting Diagrams											SUPERSTRUCTURE					SUPERSTRUCTURE																			
No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location	No.	Size	Length	Mark	Location											
End Bent No. 1					Int. Bent No. 2 Rt. Lane					End Bent No. 5 Lt. Lane (cont'd)					<div style="display: flex; justify-content: space-around;"> <div>  <p>Hor. Leg</p> </div> <div>  </div> </div>											Int. Bent No. 2 Lt. Lane					Int. Bent No. 3 Rt. Lane					Int. Bent No. 3 Lt. Lane					Int. Bent No. 4 Rt. Lane					Int. Bent No. 4 Lt. Lane				
Int. Bent No. 2 Rt. Lane					Int. Bent No. 2 Lt. Lane					Int. Bent No. 3 Rt. Lane																Int. Bent No. 3 Lt. Lane					Int. Bent No. 4 Rt. Lane					Int. Bent No. 4 Lt. Lane														
																				Slab																														
																				870 *5 6'-6" C1 Curb																														
																				12 *5 29'-9" C2 "																														
																				12 *5 29'-3" C3 "																														
																				48 *5 28'-3" C4 "																														
																				12 *5 24'-3" C5 "																														
																				6 *8 12'-9" V31 Column																														
																				16 *8 26'-3" V33 "					Parapet																									
																				8 *5 23'-6" C7 "																														
																				8 *5 23'-3" C8 "																														
																				8 *5 18'-3" C9 "																														
																				8 *5 18'-6" C10 "																														
																				16 *5 33'-9" C11 "																														
																				32 *5 9'-9" C12 "																														
																				16 *5 11'-9" C13 "																														
																				844 *5 4'-3" C14 "																														
																				8 *5 10'-9" R4 Post																														
																				62 *11 38'-0" G1																														
																				62 *11 34'-9" G8																														
																				8 *5 11'-0" R3 Post																														
																				16 *5 11'-3" R1 Post																														
																				48 *4 3'-9" R2 "																														
																				8 *5 10'-6" R5 "																														
																				48 *11 39'-0" S1 Slab																														
																				46 *11 46'-9" S2 "																														
																				44 *11 35'-6" S3 "																														
																				96 *9 39'-0" S4 "																														
																				92 *9 36'-0" S5 "																														
																				44 *9 24'-6" S6 "																														
																				44 *9 28'-0" S7 "																														
																				48 *10 49'-0" S8 "																														
																				46 *10 36'-0" S9 "																														
																				44 *10 22'-3" S10 "																														
																				36 *6 22'-3" S11 "																														
																				48 *11 38'-0" S12 "																														
																				46 *11 29'-0" S13 "																														
																				44 *11 19'-0" S14 "																														
																				48 *6 21'-0" S15 "																														
																				48 *10 35'-0" S16 "																														
																				46 *10 26'-0" S17 "																														
																				44 *10 17'-0" S18 "																														
																				48 *6 24'-6" S19 "																														
																				48 *11 32'-6" S20 "																														
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																				44 *11 13'-6" S22 "																														
																				48 *6 39'-0" S23 "																														
																				1052 *5 3'-6" S24 "																														
																				840 *5 7'-6" U3 Int. Bts.																														

506

Drawn Nov. 1957 by O.V.S.
 Checked Dec. 1957 by D.B. & H.J.L.

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

Sheet No. 2 of 10.

NO CONSTRUCTION CHANGES

BRIDGE OVER BANNISTER ROAD FINISHED

STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. FF6-353(22)(RTE. 71) STA. 413+50.4 (E. MEDIAN)

JACKSON COUNTY FINISHED

FINISHED

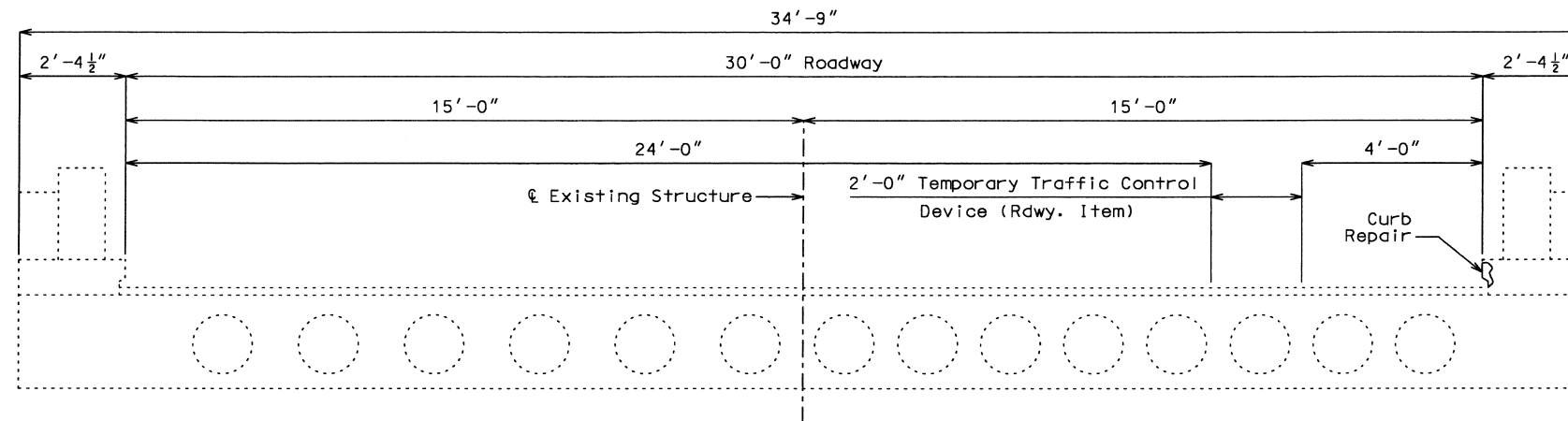
L-842

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
 U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIDED SLAB SPANS

FINAL PLANS

State	Proj. No.	Sheet No.
MO	FAF 71-4 (98)	B1
SEC/SUR 26	TWP 48N	RGE 33W

Contract ID
 060929-401



SECTION THRU EXISTING SLAB

FINAL Quantities		
Item		Total
Substructure Repair (Unformed)	sq. foot	5
Repairing Curb	linear foot	78

GENERAL NOTES:

Design Specifications:

2002 - AASHTO 17th Edition
 Bridge Deck Rating = 7

Design Unit Stresses:

Class B-1 Concrete $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

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.

Verify Dimensions:

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

Miscellaneous:

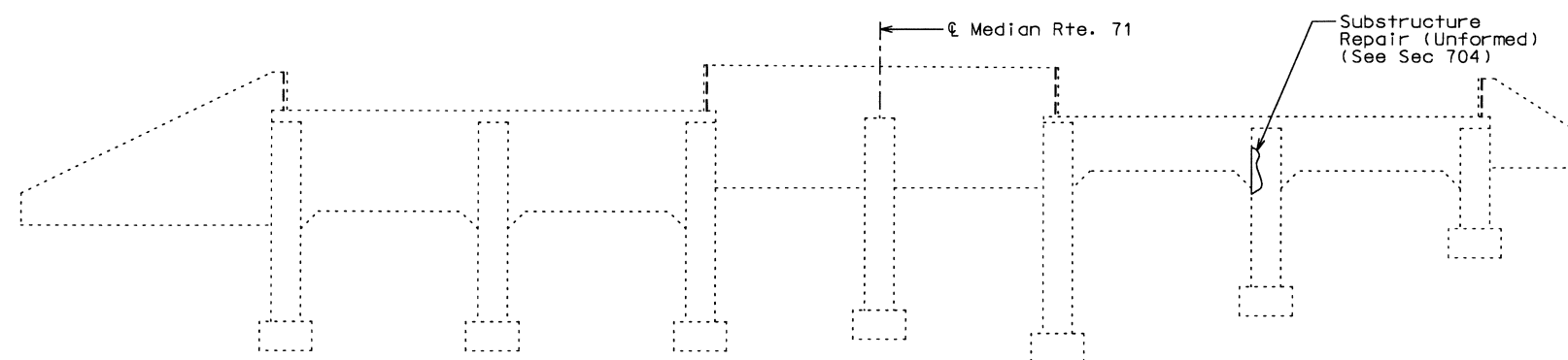
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Curb repair areas shall be patched with a qualified special mortar in accordance with Sec 704.

Traffic:

See roadway plans for traffic control during construction.



L08424

L08423

PART ELEVATION SHOWING SUBSTRUCTURE REPAIR (UNFORMED)

REPAIRS TO BRIDGE:
 RTE. 71 NBL OVER BANNISTER ROAD

STATE ROAD GRANDVIEW TO BLUE RIVER ROAD

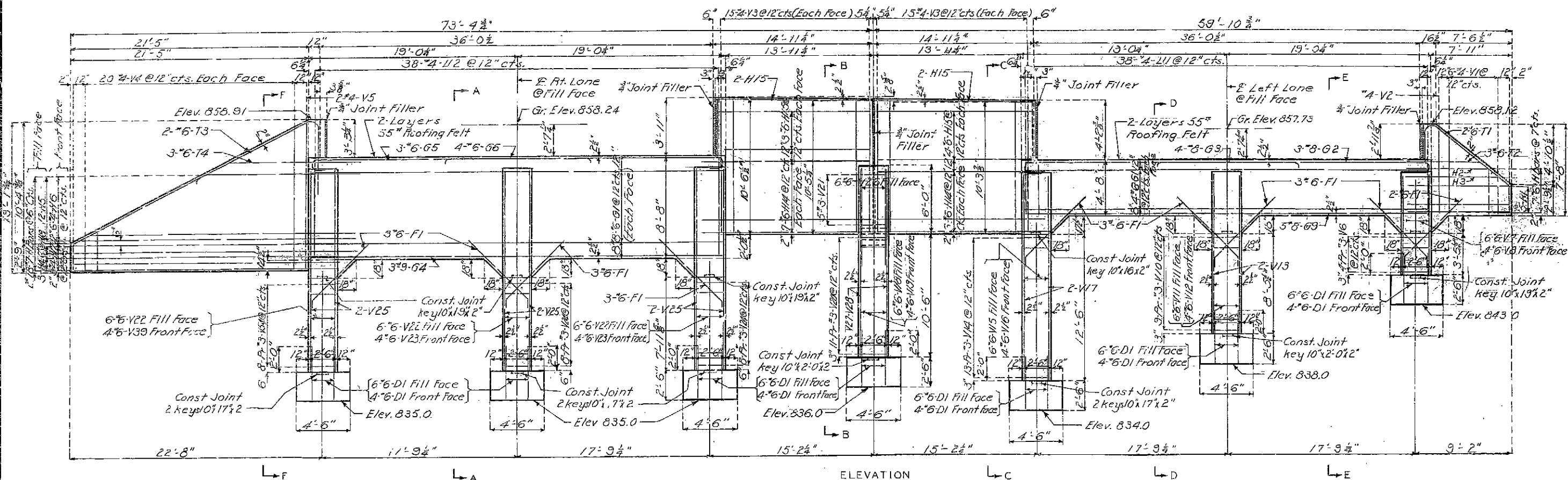
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PROJECT NO. STA. 413+50.40± (€ MEDIAN)

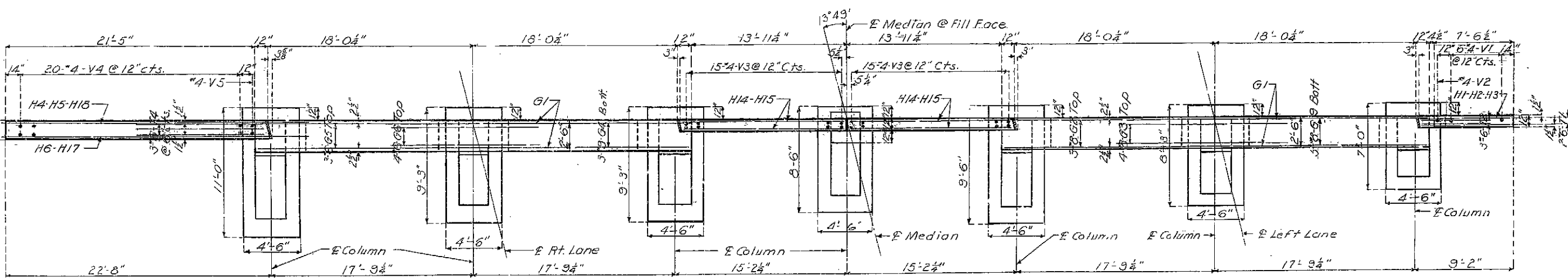
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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	98	



507



Note: Fill at end bent No. 1 shall not be carried above bottom of beam and wings until superstructure span (1-2) is in place.

Note: See Sheet No. 4 for Sections A-A, B-B, C-C, D-D, E-E and F-F.

BRIDGE OVER BANNISTER ROAD
STATE ROAD FROM GRANDVIEW TO KANSAS CITY ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. FFG-353(22)(RT. 7) STA. 413+50.4 (E. MEDIAN)

JACKSON COUNTY

Drawn OCT 1957 by O.U.S.
Checked Dec. 1957 by H.J.K.

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

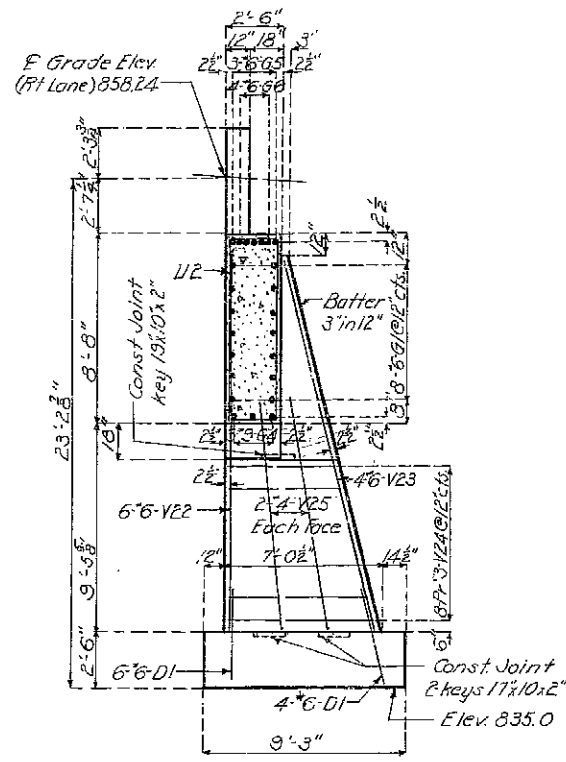
Sheet No. 3 of 10.

SEE FINAL PLANS BROWN-LINES

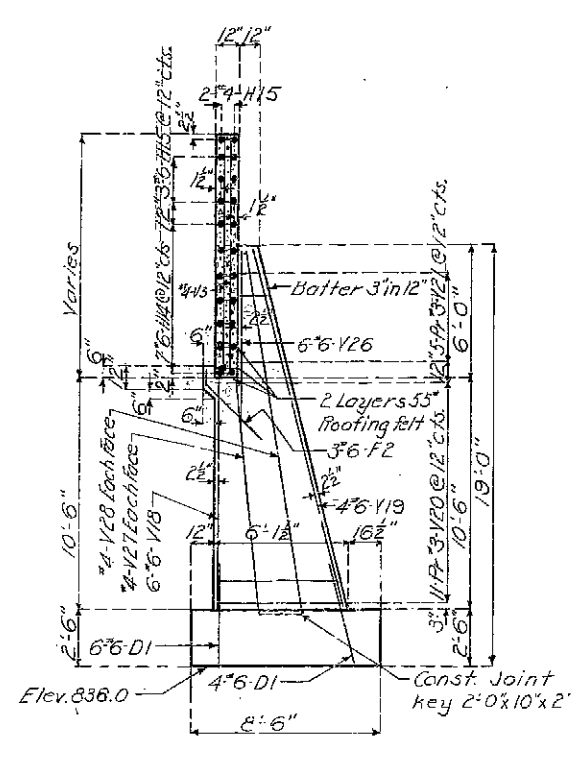
L-842

MISSOURI STATE HIGHWAY DEPARTMENT

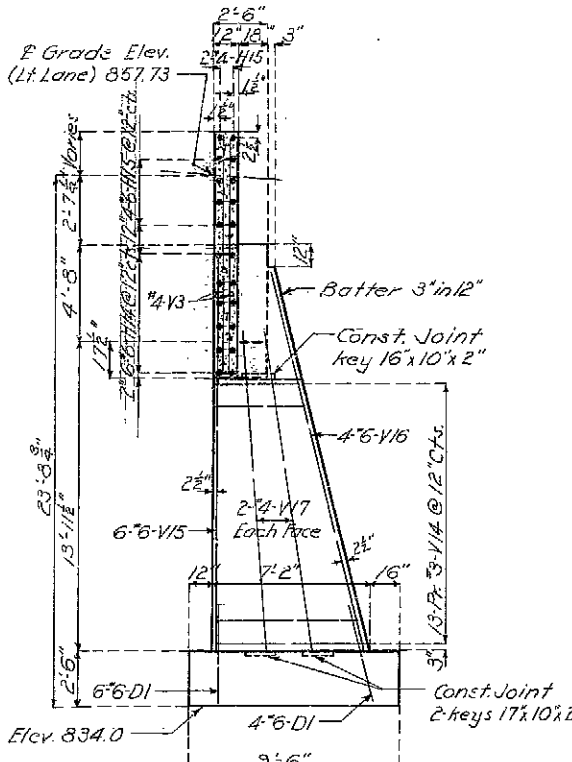
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5	MO.		19	99	



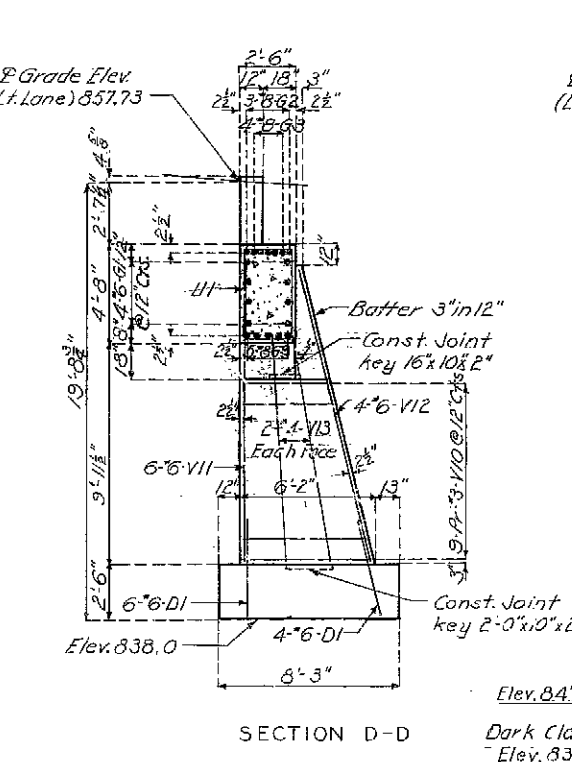
SECTION A-A



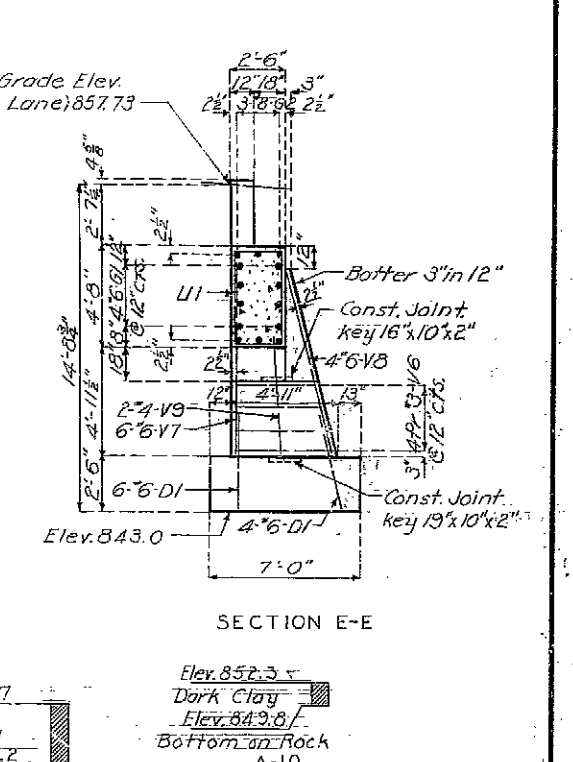
SECTION B-B



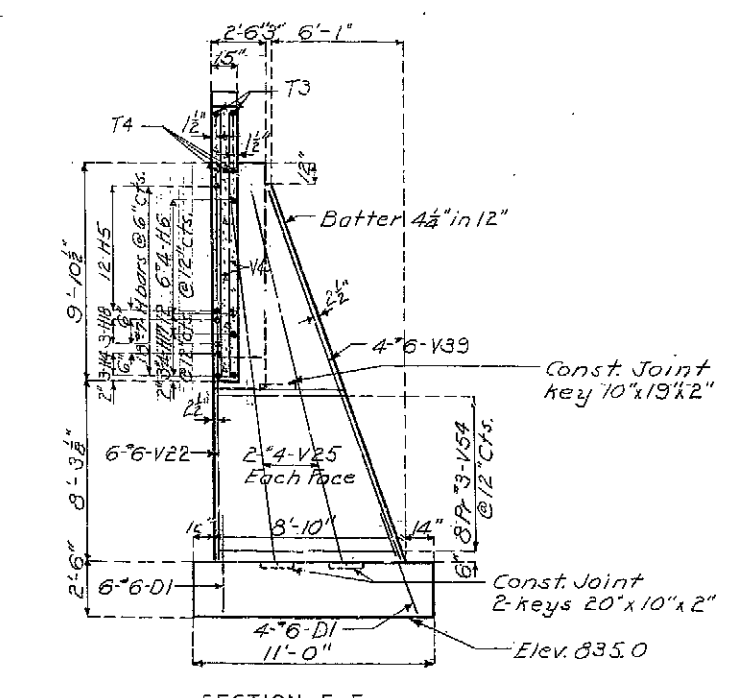
SECTION C-C



SECTION D-D

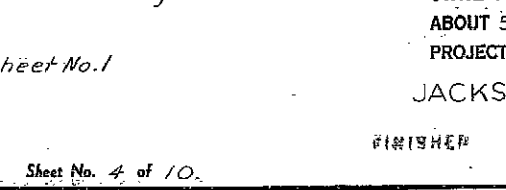
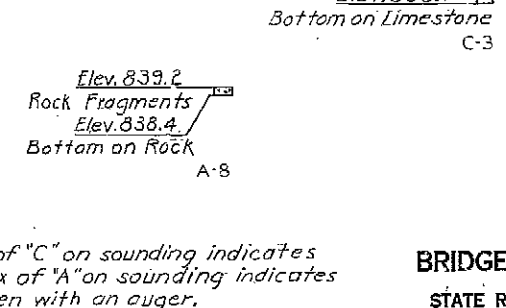
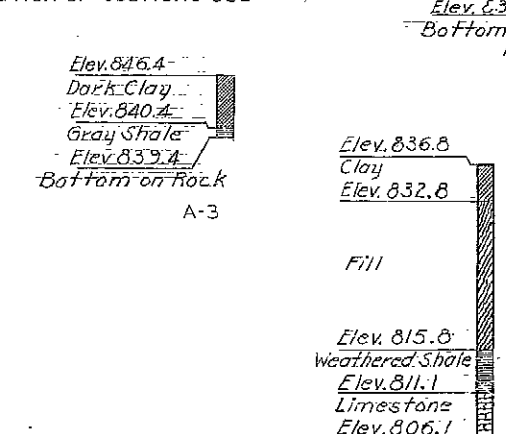
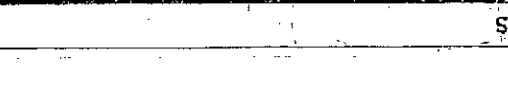
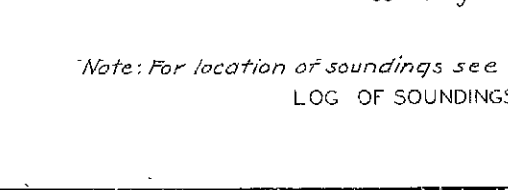
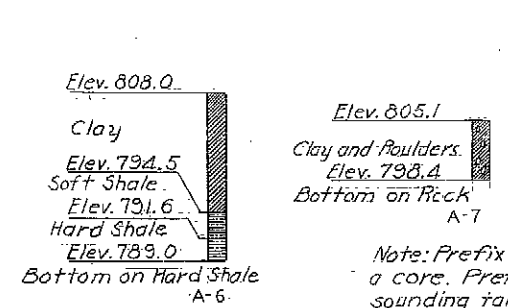
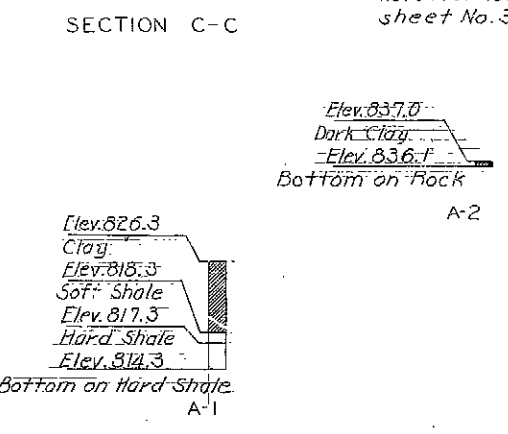
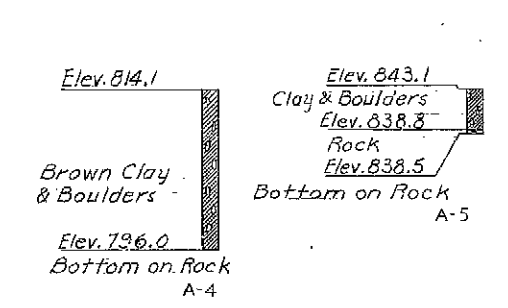
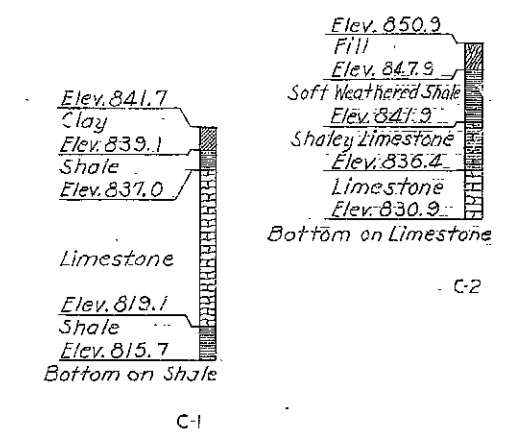


SECTION E-E



SECTION F-F

Note: For location of sections see sheet No. 3.



Note: Prefix of "C" on sounding indicates a core. Prefix of "A" on sounding indicates sounding taken with an auger.

Note: For location of soundings see sheet No. 1

LOG OF SOUNDINGS

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. FFG-353(22) (RTE 71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

Drawn OCT. 1957 by O.S.
 Checked Dec. 1957 by H.J.K.

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

Sheet No. 4 of 10.

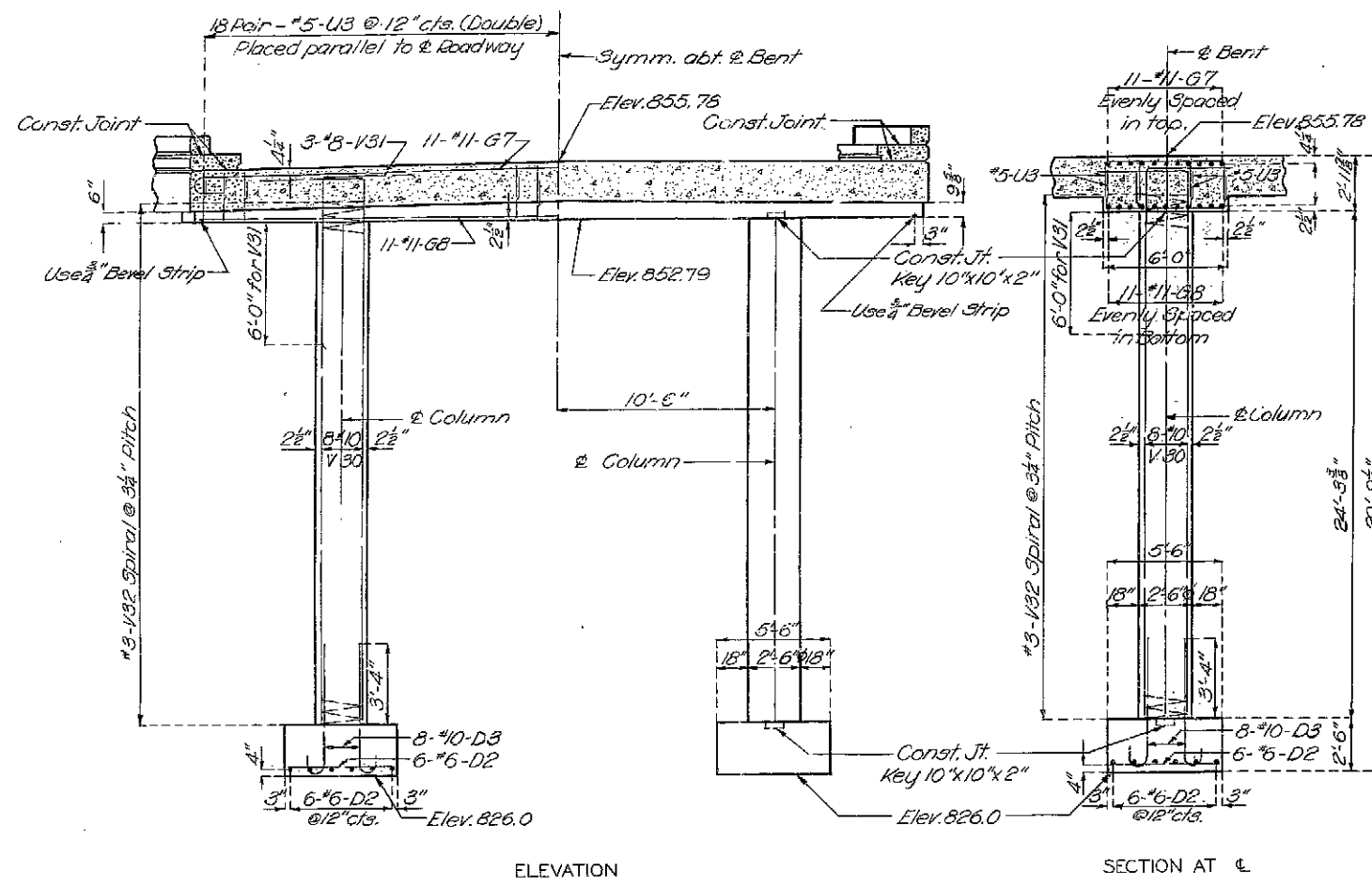
SEE FINAL PLANS BROWN-LINES

508

L-842

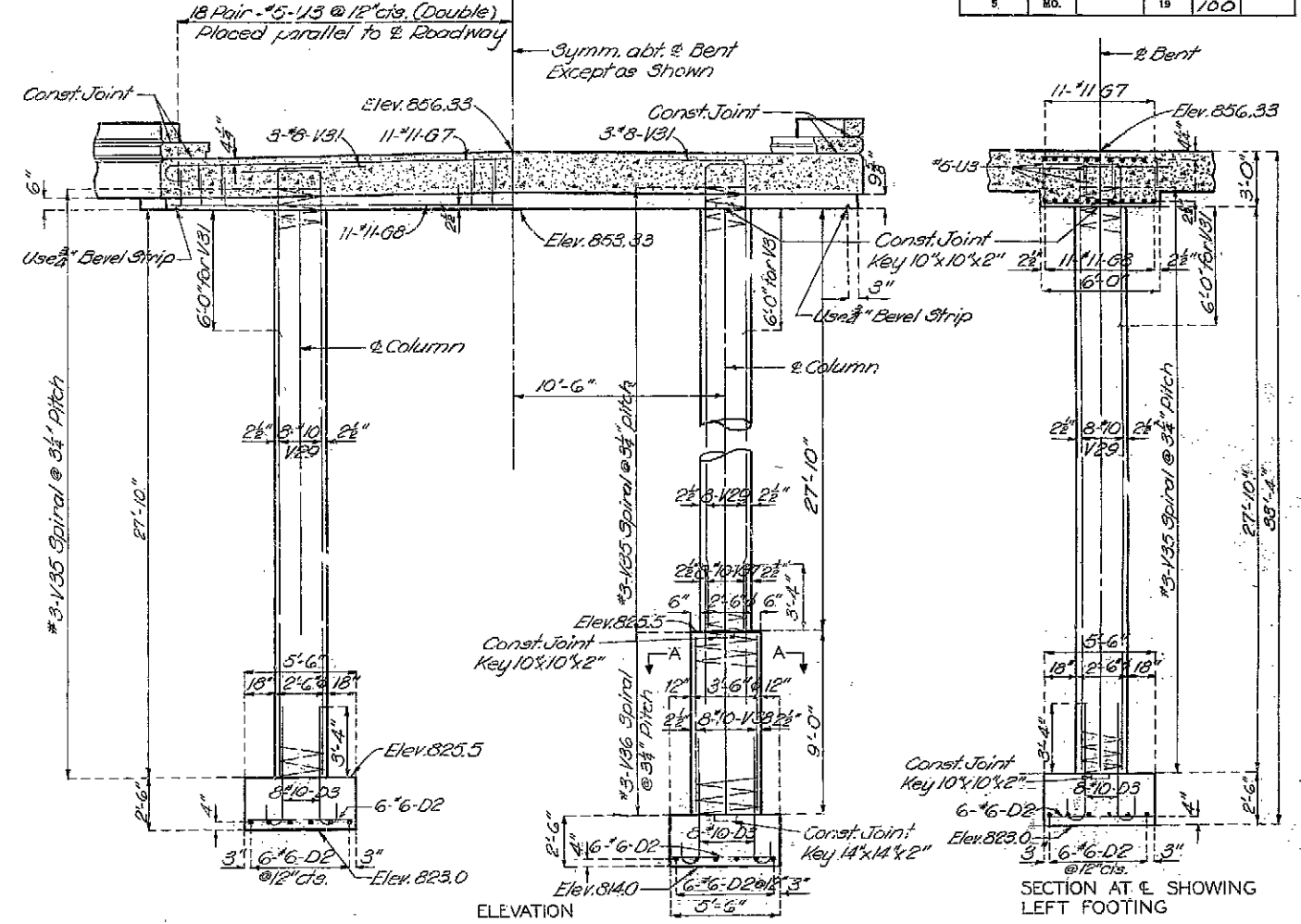
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	100	



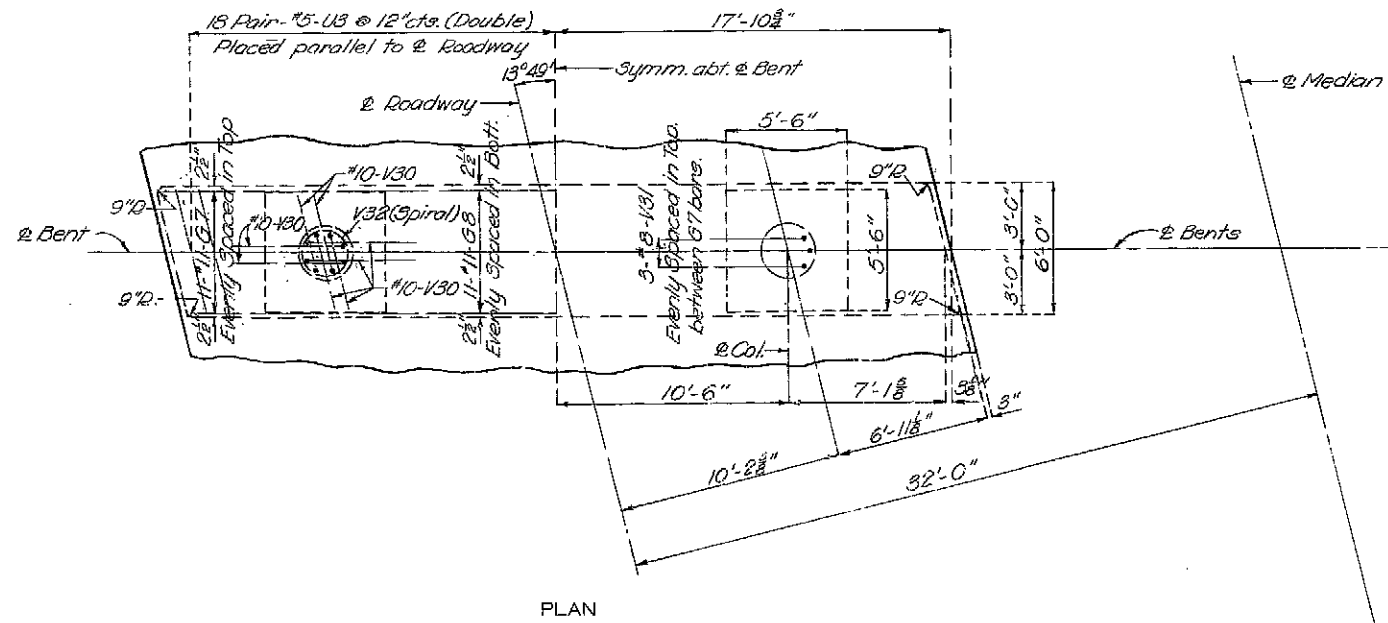
ELEVATION

SECTION AT C



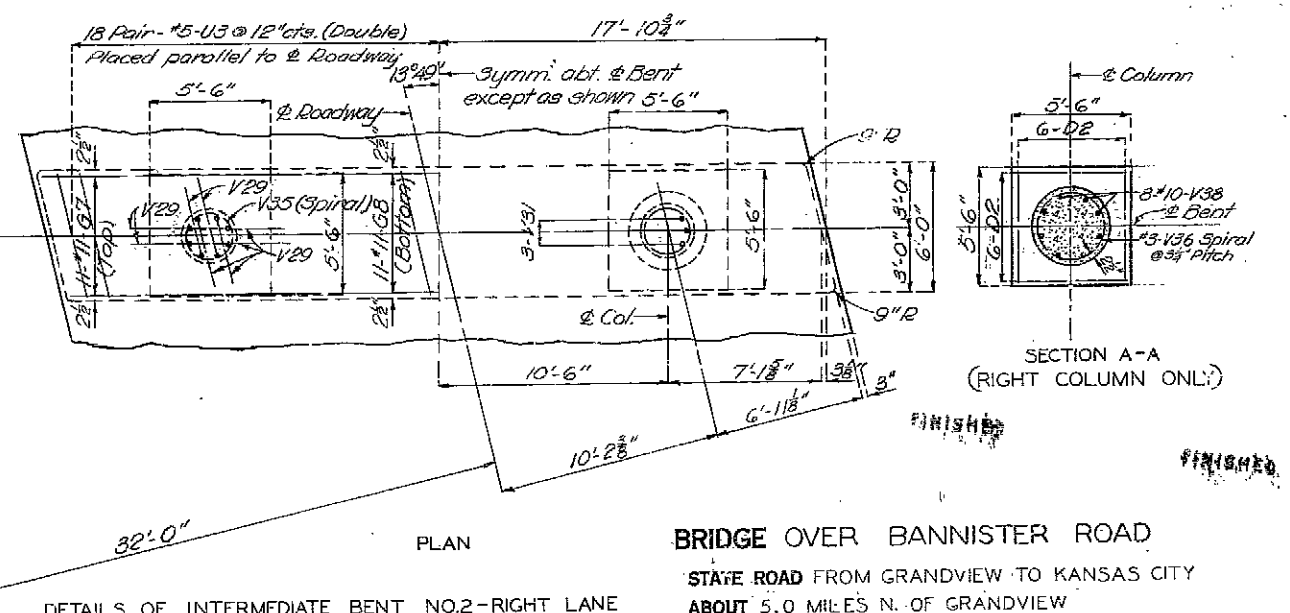
ELEVATION

SECTION AT E SHOWING LEFT FOOTING



PLAN

DETAILS OF INTERMEDIATE BENT NO.2-LEFT LANE



PLAN

DETAILS OF INTERMEDIATE BENT NO.2-RIGHT LANE

SECTION A-A (RIGHT COLUMN ONLY)

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-FG-353(22) (RTE 7) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

509

Drawn OCT. 1957 by H.M.
 Checked Dec. 1957 by H.J.K.

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

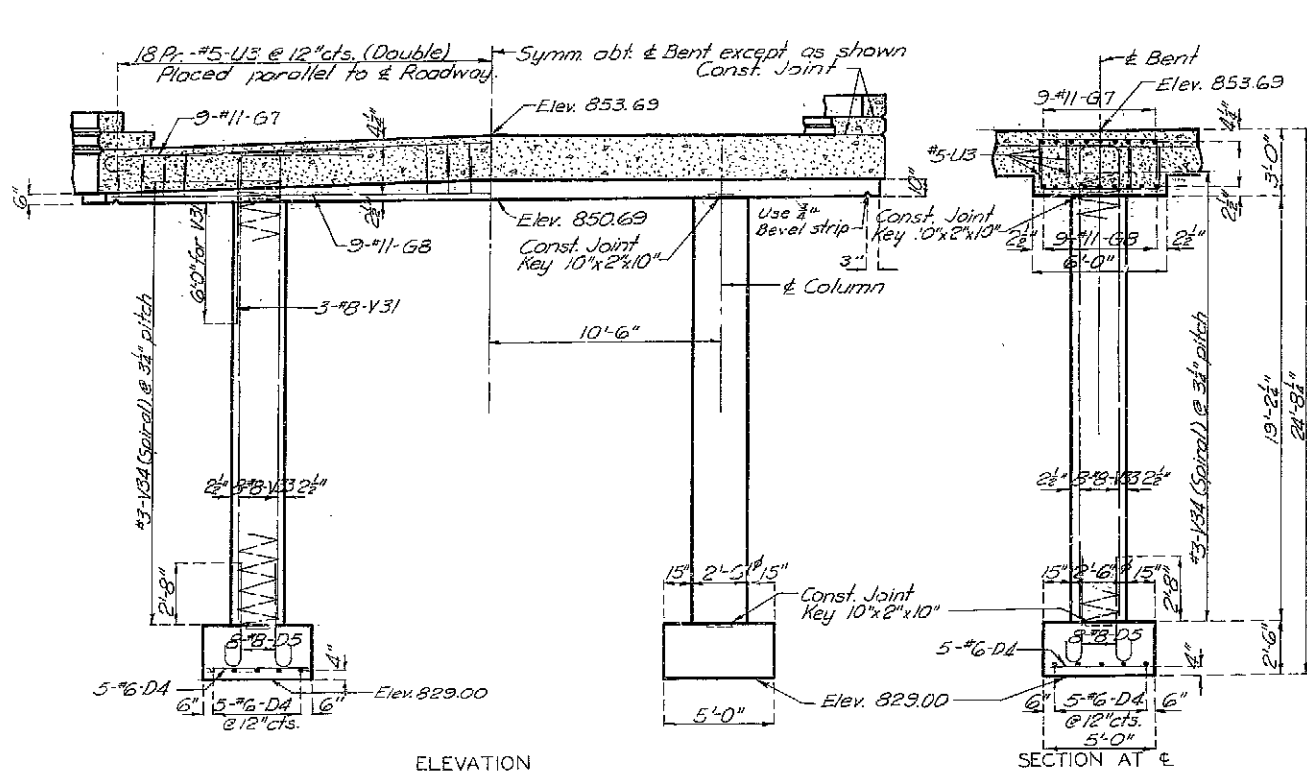
Sheet No. 5 of 10.

SEE FINAL PLANS BROWN-LINES

L-842

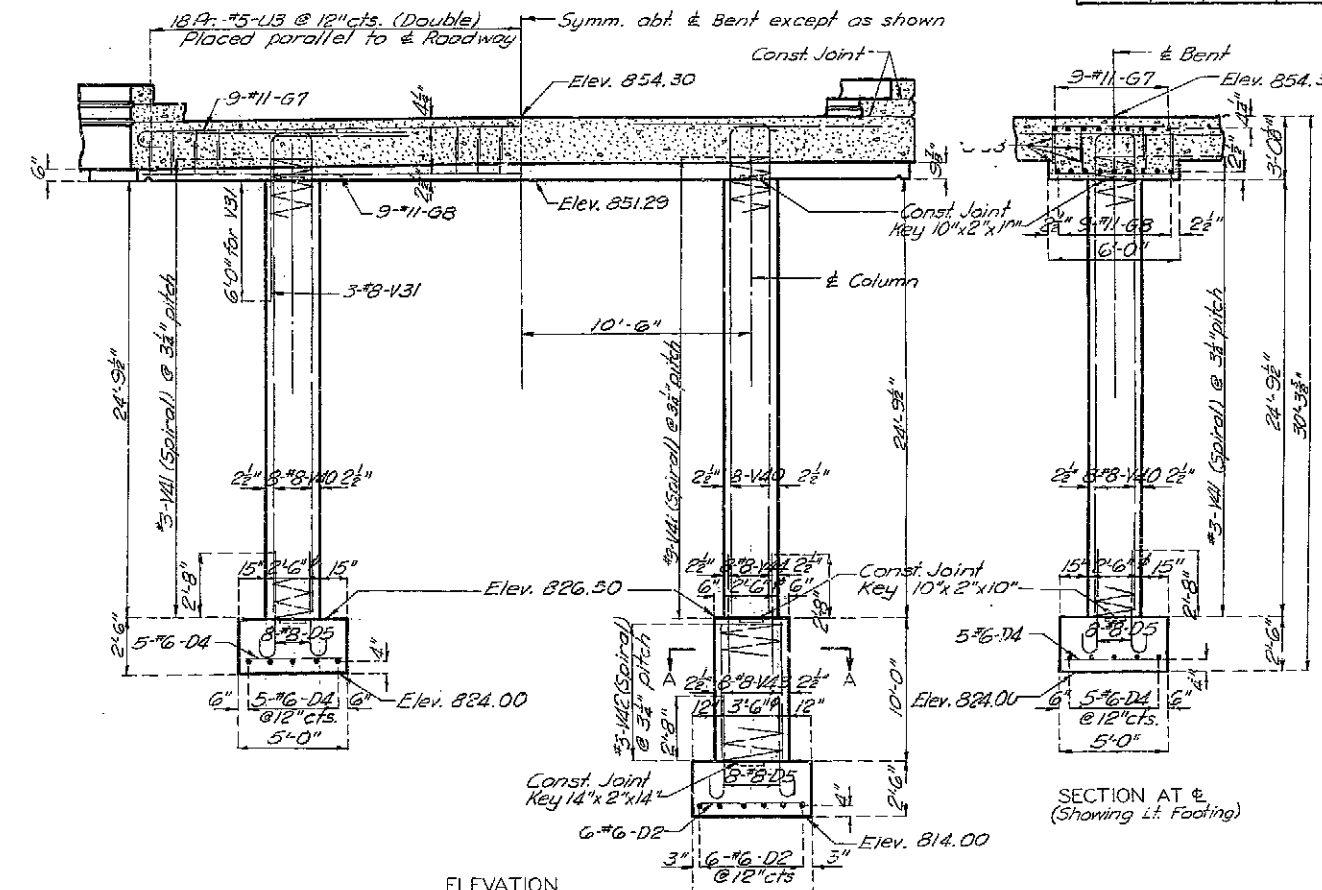
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	101	



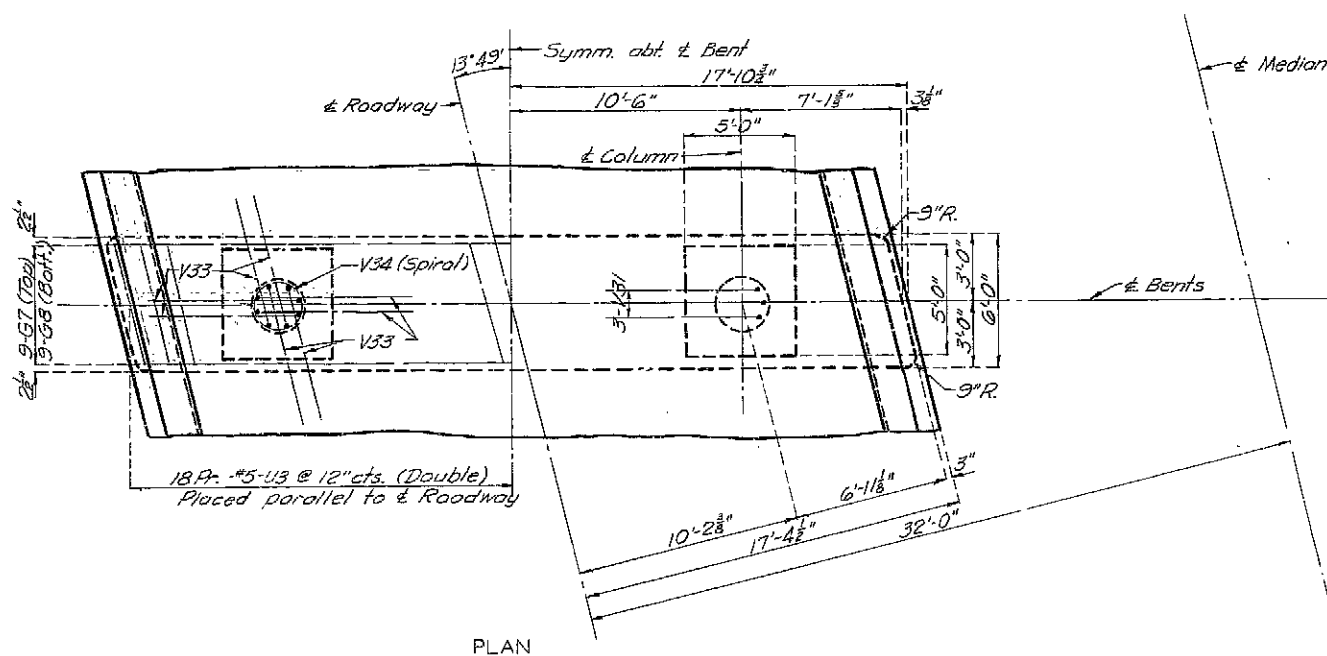
ELEVATION

SECTION AT BENT

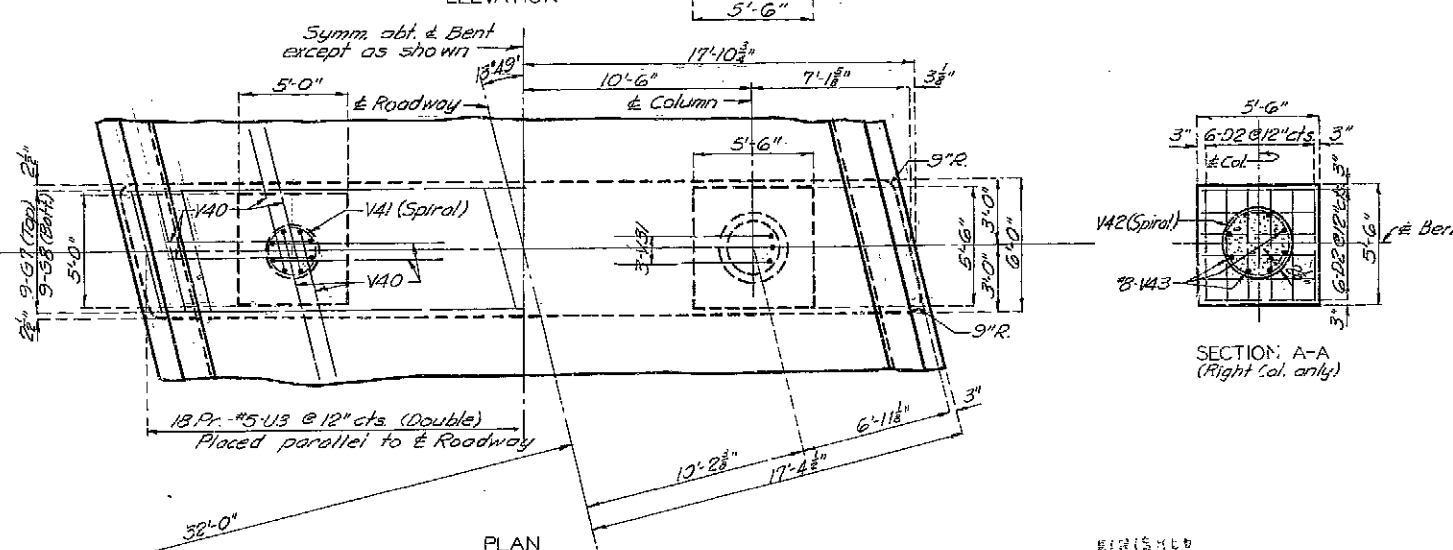


ELEVATION

SECTION AT BENT
(Showing Lt. Footing)



PLAN



PLAN

SECTION A-A
(Right Col. only)

DETAILS OF INTERMEDIATE BENT NO.3 - LEFT LANE

DETAILS OF INTERMEDIATE BENT NO.3 - RIGHT LANE

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-G-35322 (RTE. 71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

Drawn Oct. 1957 by M.H.P.
 Checked Dec. 1957 by H.J.K.

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

Sheet No. 6 of 10.

FINISHED

SEE FINAL PLANS BROWN-LINES

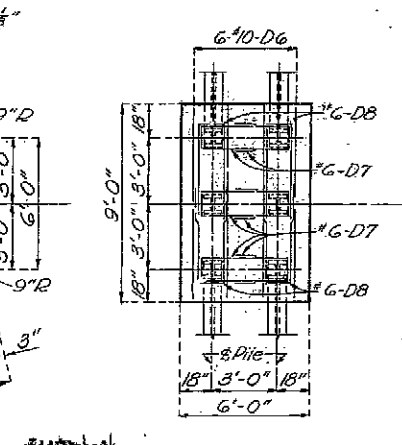
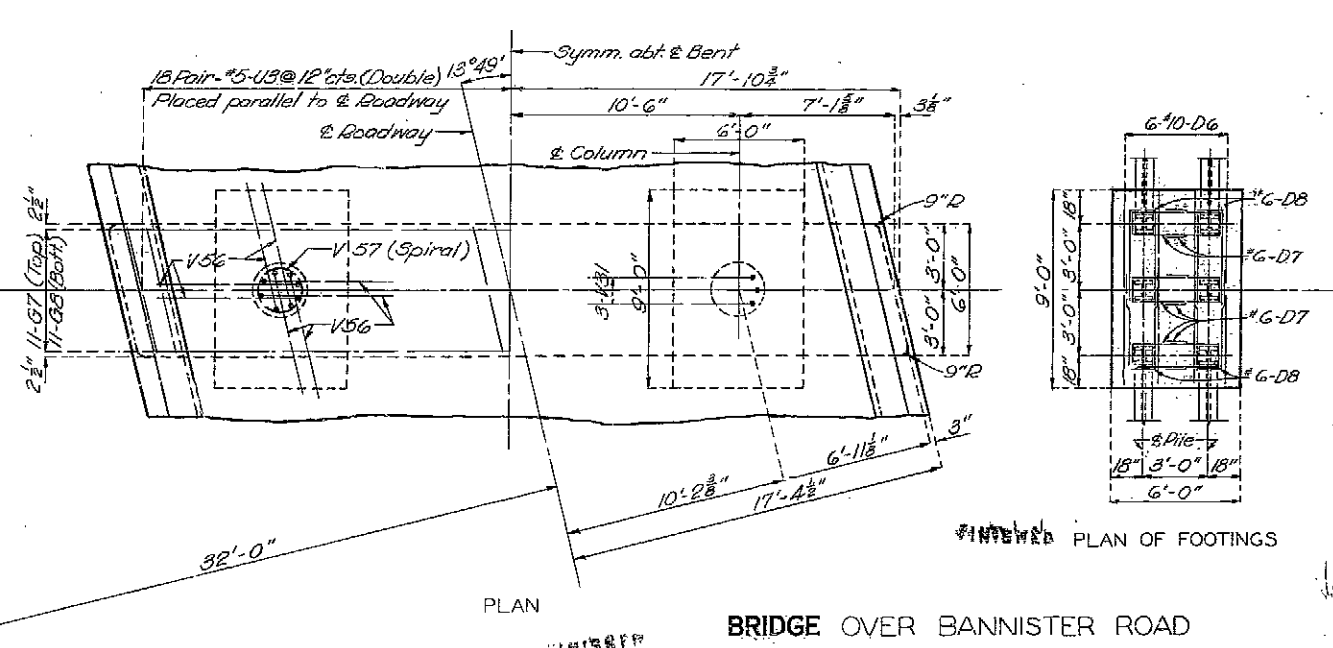
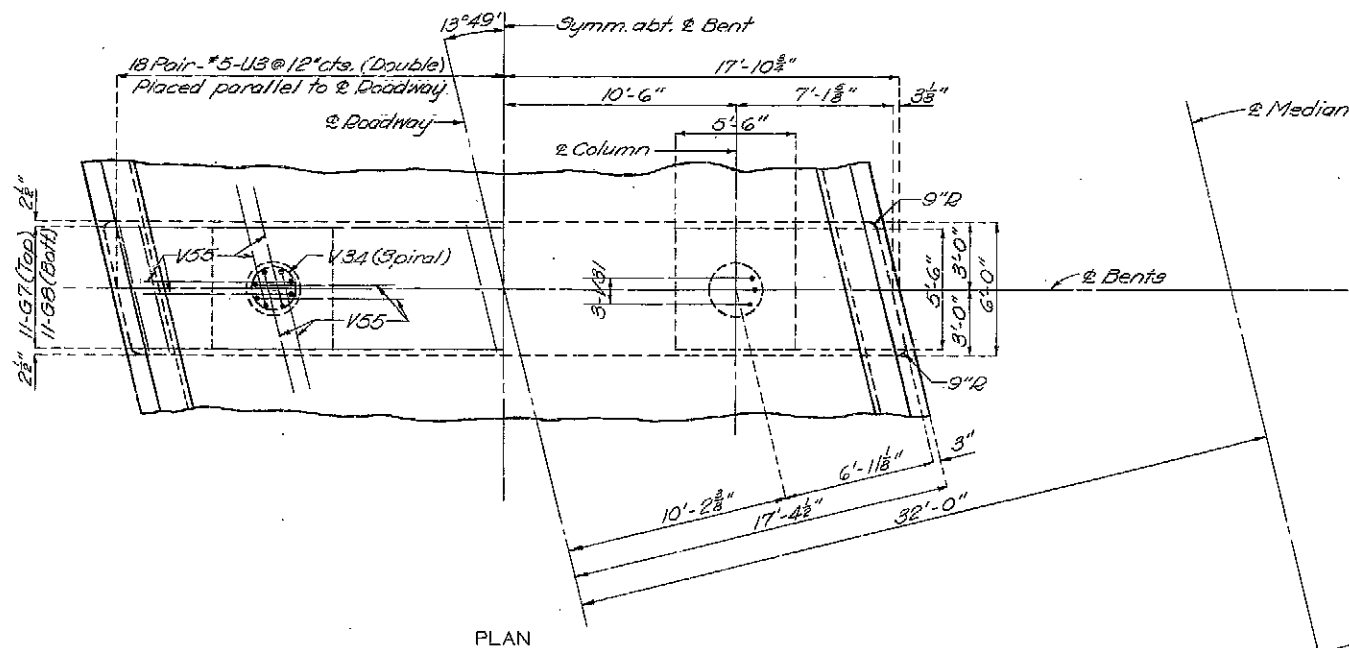
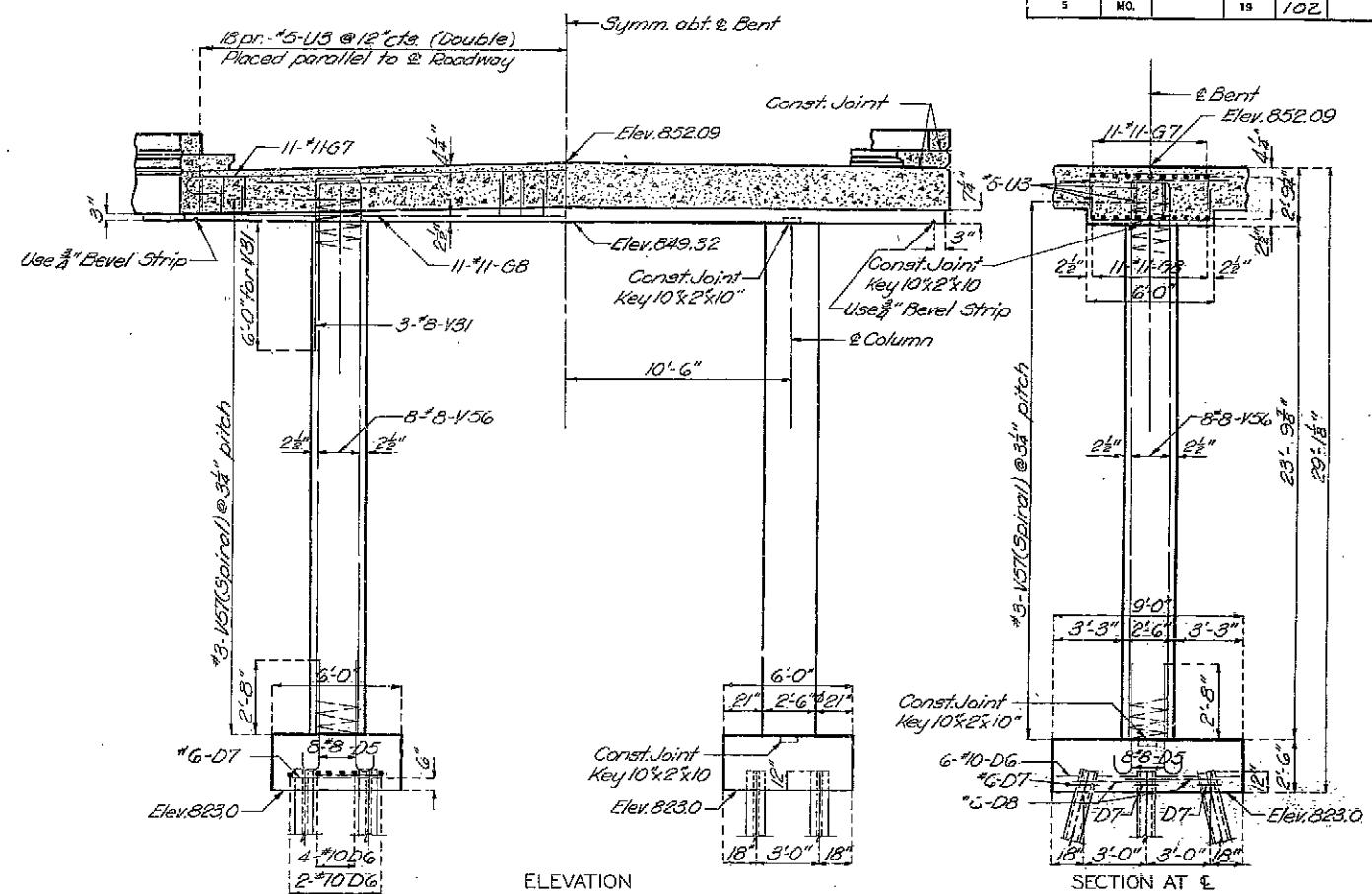
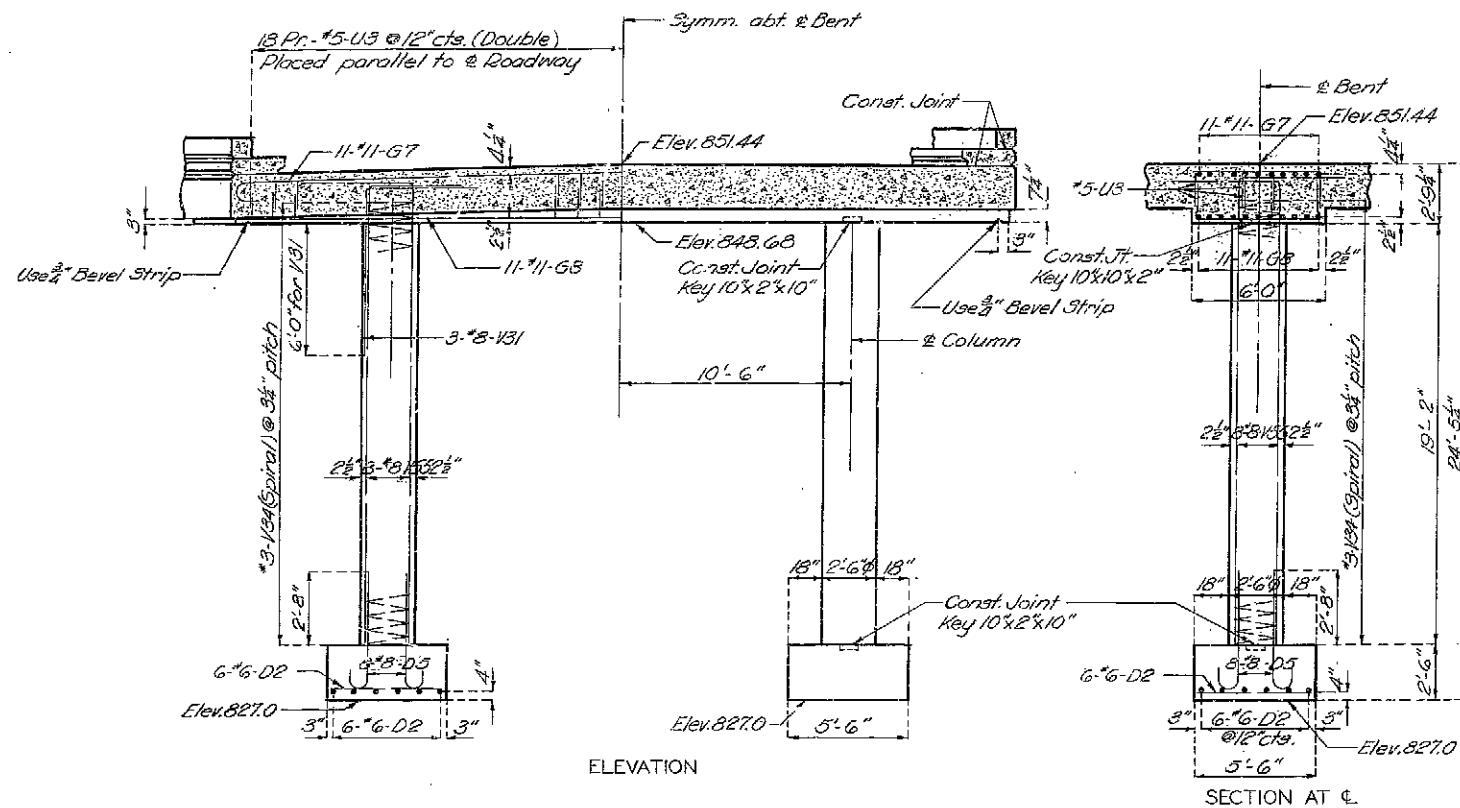
1958

L-842

510

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	102	



DETAILS OF INTERMEDIATE BENT NO.4-LEFT LANE

DETAILS OF INTERMEDIATE BENT NO.4-RIGHT LANE

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO.F-FG-353(22)(RTE.71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

Drawn OCT. 1957 by H.M.
 Checked Dec. 1957 by H.J.K.

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

Sheet No. 7 of 10.

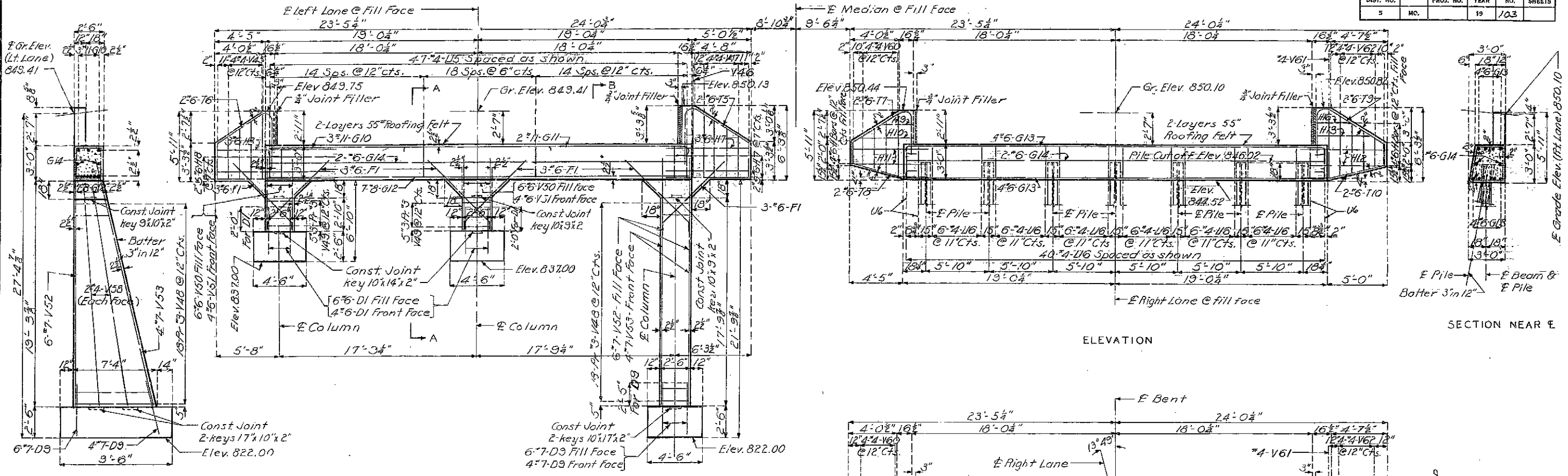
SEE FINAL PLANS BROWN-LINES

L-84

511

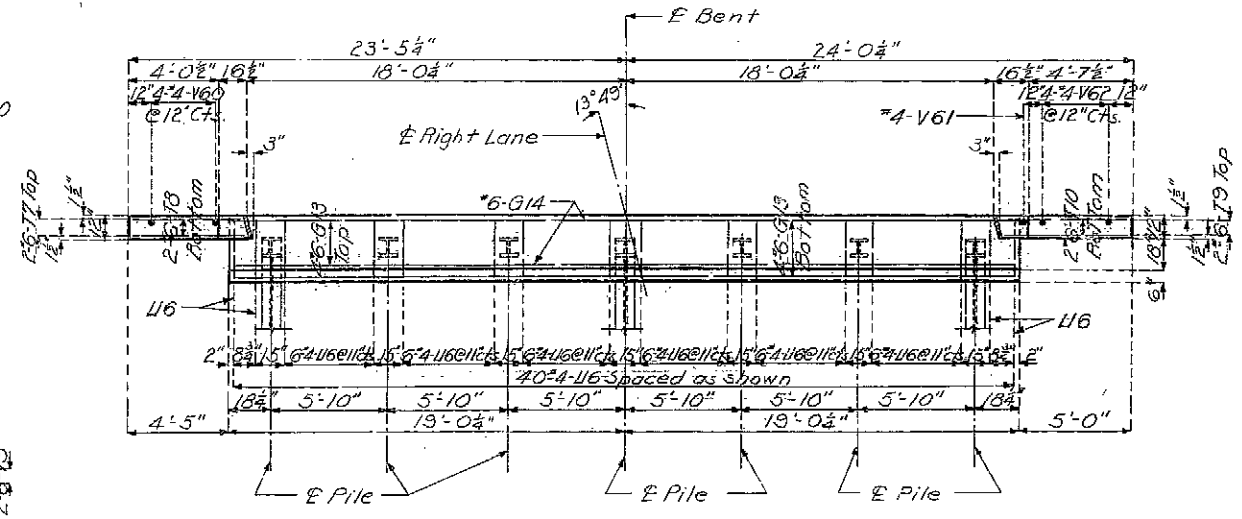
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	103	

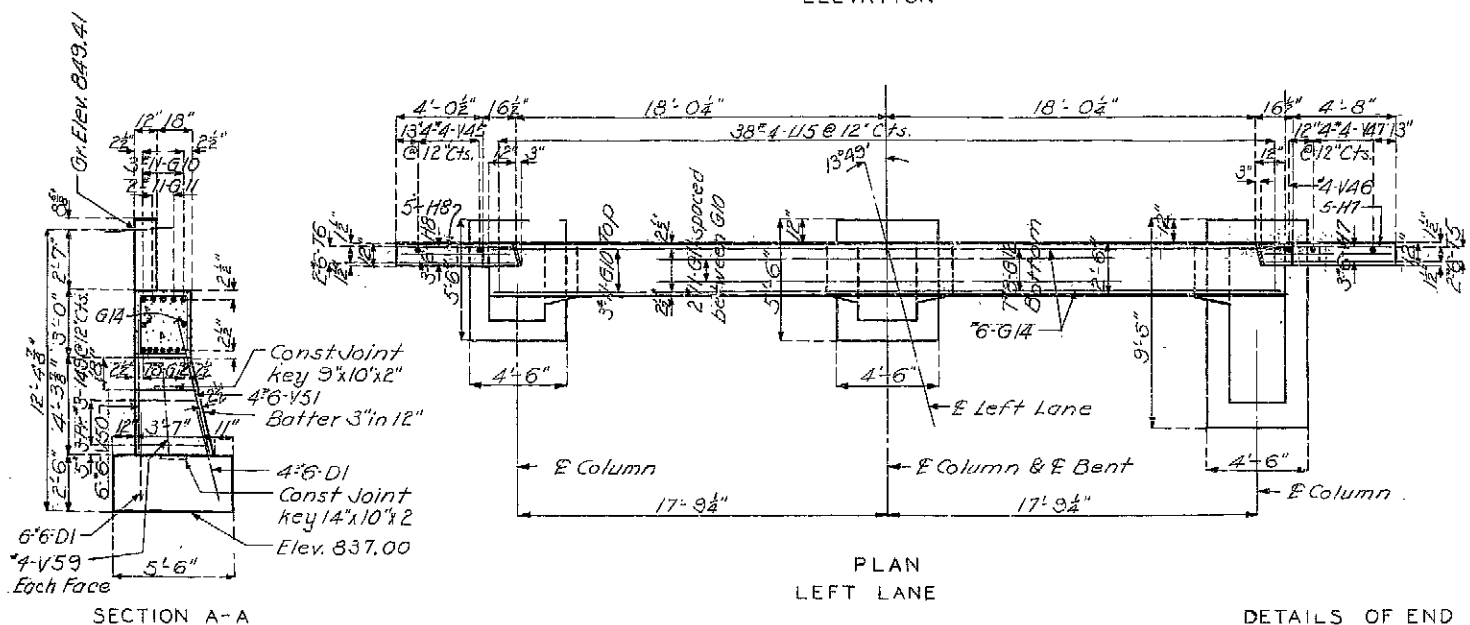


ELEVATION

SECTION NEAR E



PLAN
RIGHT LANE



PLAN
LEFT LANE

DETAILS OF END BENT NO. 5

Note: Fill at End Bents No. 5 shall not be carried above bottom of beam and wings until superstructure spans (4-5) are in place.

BRIDGE OVER BANNISTER ROAD
STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. F-G35322X(RTE. 71) STA. 413+50.4 (E. MEDIAN)
JACKSON COUNTY

512

Drawn OCT. 1957 by O.J.S.
Checked Dec. 1957 by H.J.K. & D.B.

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

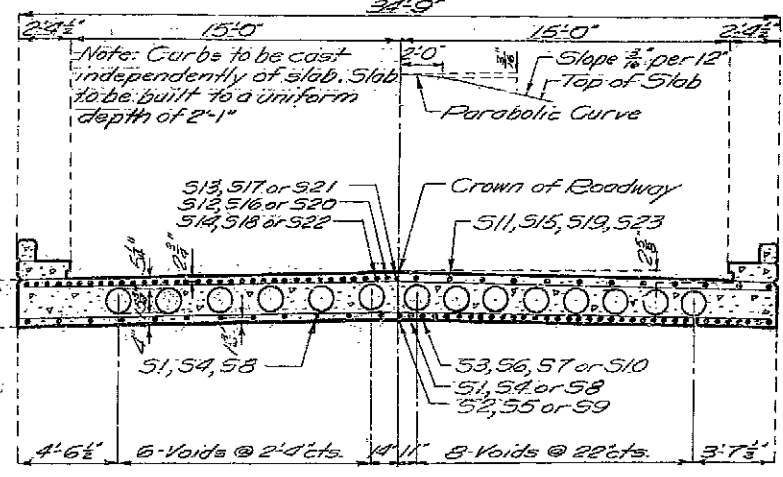
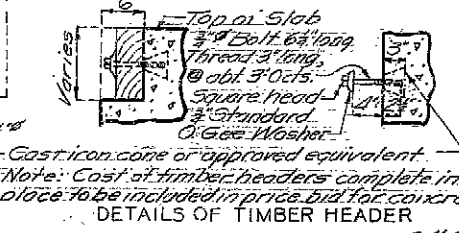
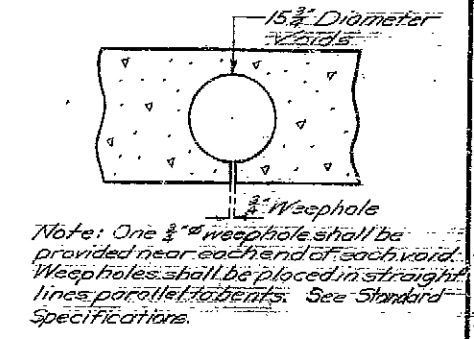
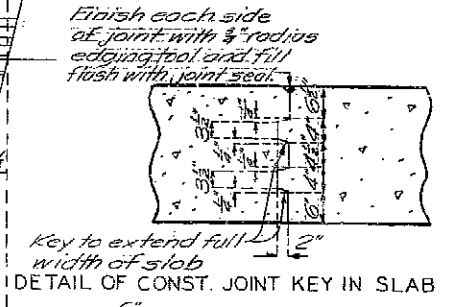
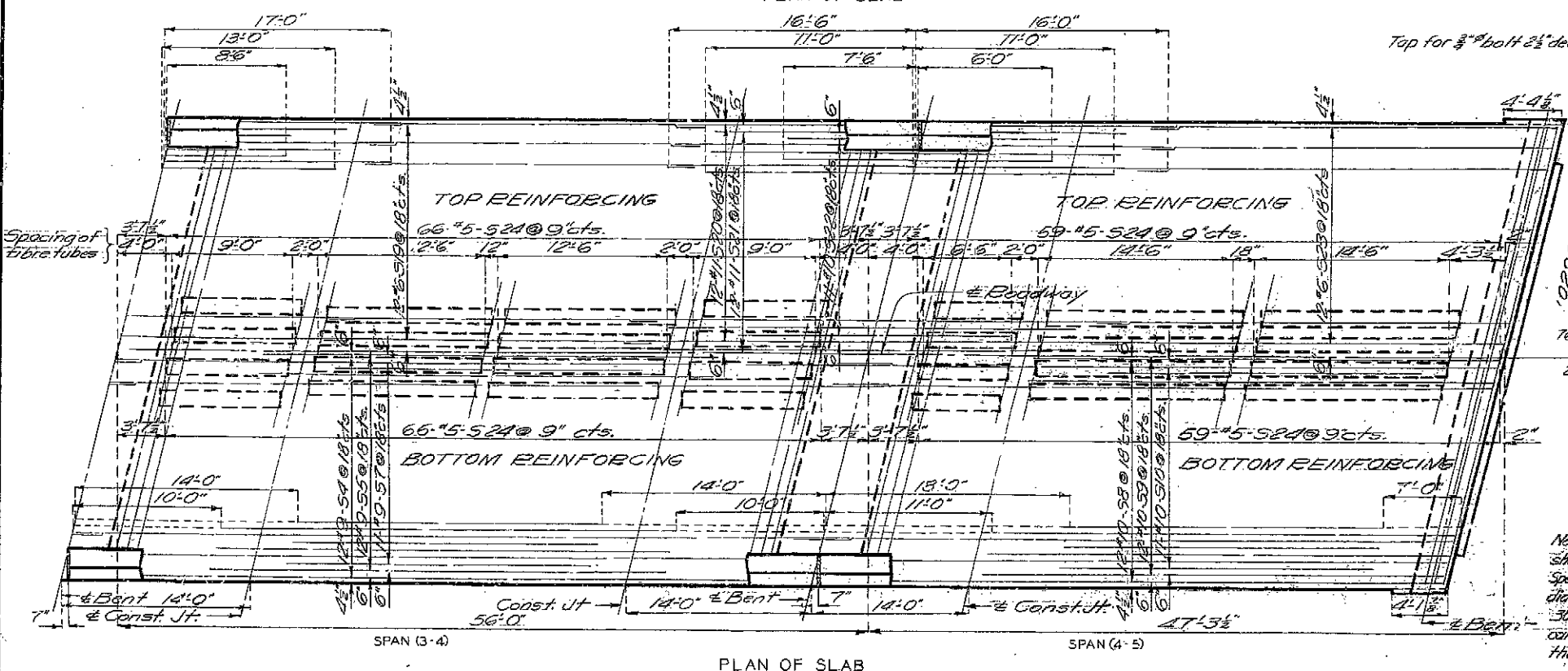
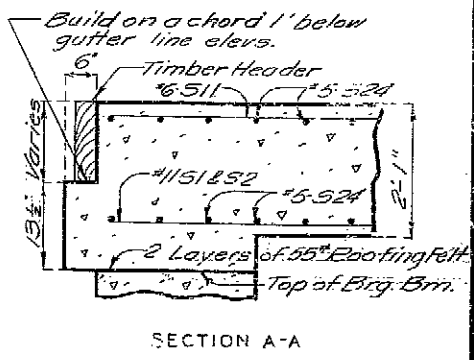
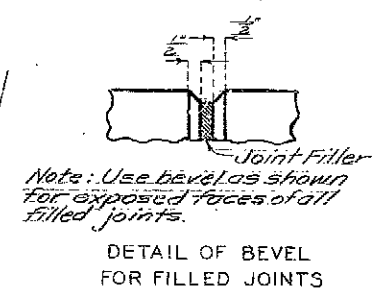
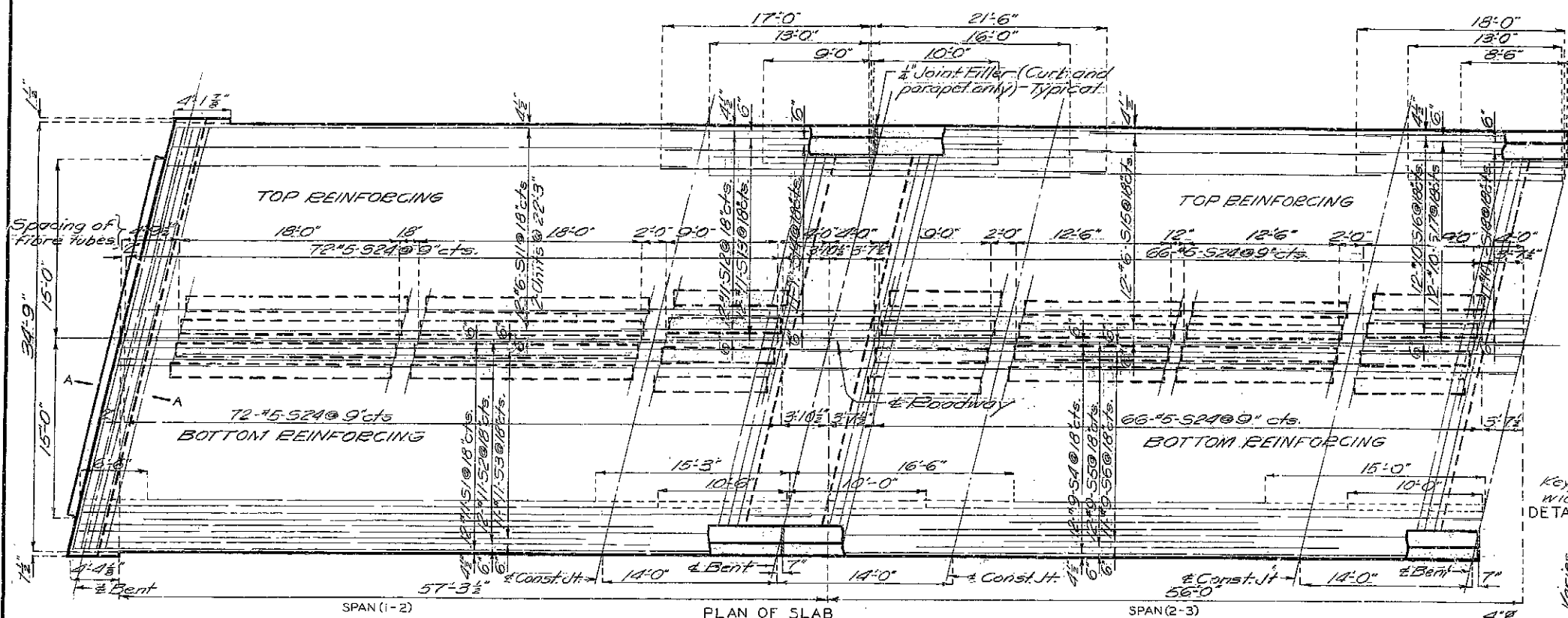
Sheet No. 8 of 10.

SEE FINAL PLANS BROWN-LINES

L-842

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	104	



Note: Fiber tubes for producing voids shall be in accordance with the Standard Specifications and shall have an outside diameter of 1 1/2" and a wall thickness of .300" and shall be anchored to joists carrying the floor forms at not more than 3'-0" centers.

BRIDGE OVER BANNISTER ROAD

STATE ROAD FROM GRANDVIEW TO KANSAS CITY ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO. F-FG-35322 (RTE. 71) STA. 413+50.4 (E. MEDIAN)

JACKSON COUNTY

513

Drawn Oct. 1957 by W.E.S.
Checked Dec. 1957 by H.J.K.

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

Sheet No. 9 of 10.

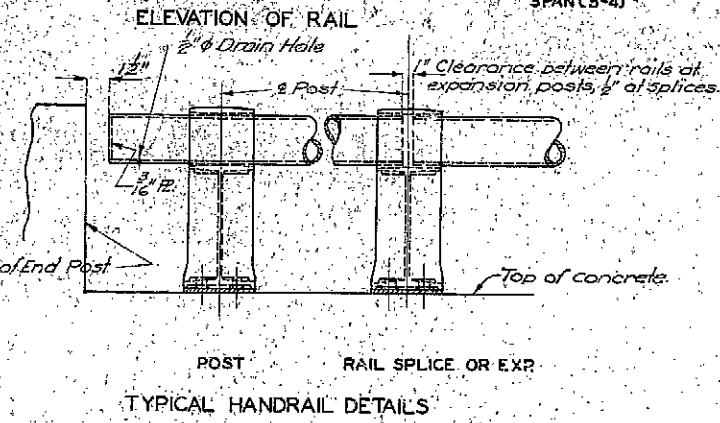
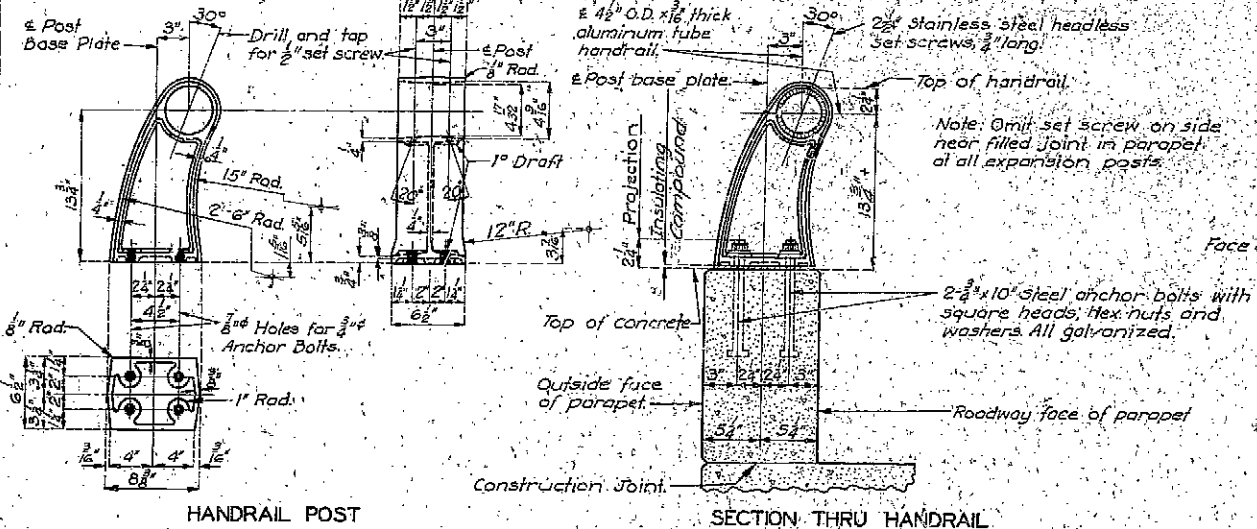
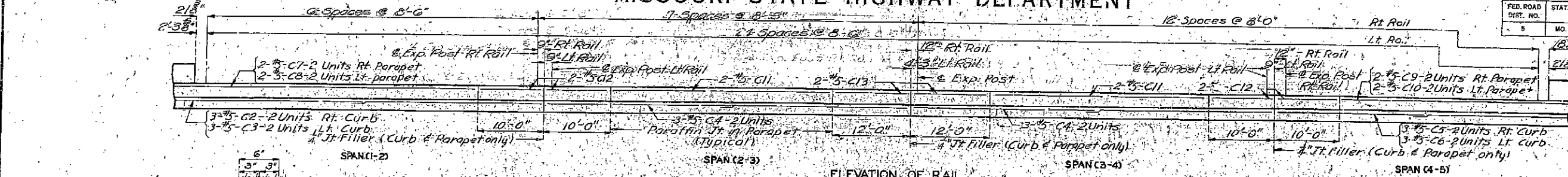
NO CONSTRUCTION CHANGES

L-842

MISSOURI STATE HIGHWAY DEPARTMENT

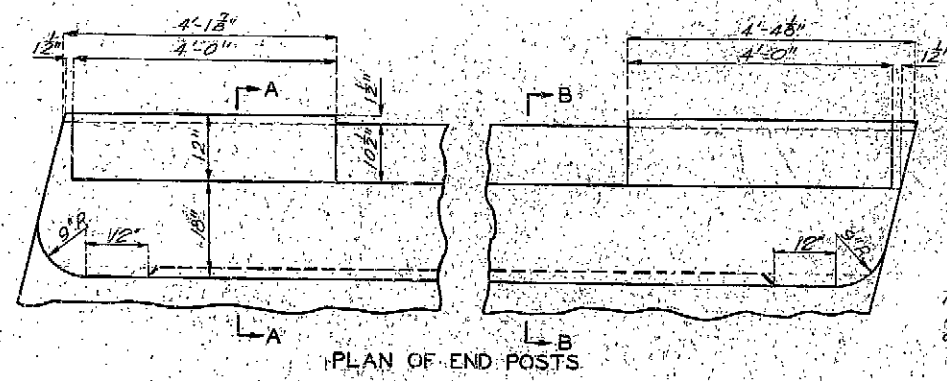
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	105	

Note: C1 and C14 bars to be placed @ 12" cts. in curb and parapet respectively.



Note: All handrail posts shall be set normal to grade. Aluminum tube handrail shall be bent to conform to vertical and horizontal alignment of parapet.
 Aluminum washer shims between top of parapet and post base may be used for adjusting handrail alignment. Maximum thickness of shims to be 1/8". Where more fitting of post is required for proper alignment, concrete bearing areas shall be ground down.
 All parts of handrail, except anchor bolts, nuts, washers, and set screws are to be of aluminum material.
 The contract unit price per linear foot of Aluminum Alloy Handrail shall include furnishing and erecting the handrail complete with anchor bolts, shims and Insulating Compound.
 All fillets 1/8" except as noted.
 All draft 3° except as noted.
 The length of Aluminum Alloy Handrail measured for payment shall be the total out to out of rails.
 Pipe rail to be fabricated in two or three panel lengths unless otherwise approved.
 Top of curbs and parapets to be built parallel to grade. Vertical faces of end posts to be vertical.

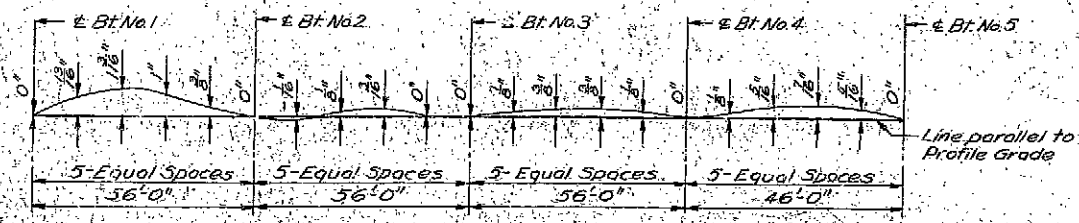
SINGLE TUBE ALUMINUM RAILING



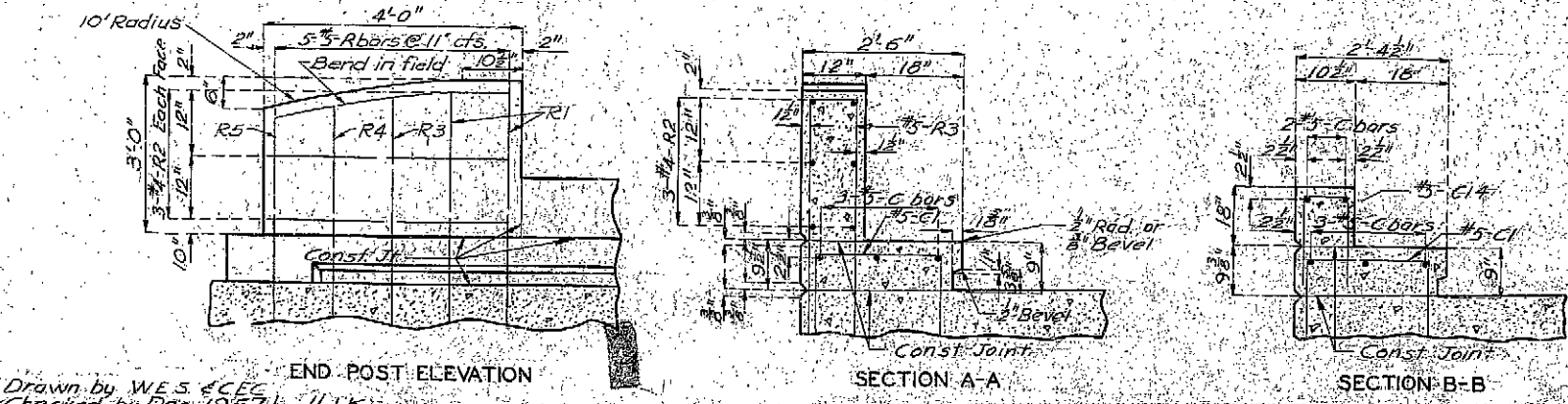
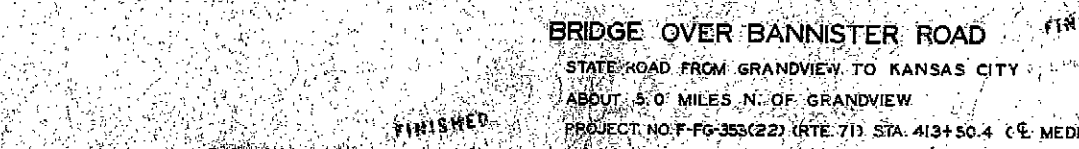
Note: Omit curve at ends of bridge where drain basin is provided on approach slab.

Station	Elevation	Notes
413+30	858.30	Fill Face Bt #1 @ Rt Lane
413+35	858.15	Fill Face Bt #1 @ Lt Lane
413+40	857.99	Fill Face Bt #1 @ Lt Lane
413+45	857.83	Fill Face Bt #1 @ Lt Lane
413+50	857.67	Fill Face Bt #1 @ Lt Lane
413+55	857.51	Fill Face Bt #1 @ Lt Lane
413+60	857.34	Fill Face Bt #1 @ Lt Lane
413+65	857.17	Fill Face Bt #1 @ Lt Lane
413+70	857.01	Fill Face Bt #1 @ Lt Lane
413+75	856.84	Fill Face Bt #1 @ Lt Lane
413+80	856.67	Fill Face Bt #1 @ Lt Lane
413+85	856.50	Fill Face Bt #1 @ Lt Lane
413+90	856.33	Fill Face Bt #1 @ Lt Lane
413+95	856.15	Fill Face Bt #1 @ Lt Lane
414+00	855.98	Fill Face Bt #1 @ Lt Lane
414+05	855.80	Fill Face Bt #1 @ Lt Lane
414+10	855.62	Fill Face Bt #1 @ Lt Lane
414+15	855.44	Fill Face Bt #1 @ Lt Lane
414+20	855.26	Fill Face Bt #1 @ Lt Lane
414+25	855.08	Fill Face Bt #1 @ Lt Lane
414+30	854.90	Fill Face Bt #1 @ Lt Lane
414+35	854.72	Fill Face Bt #1 @ Lt Lane
414+40	854.53	Fill Face Bt #1 @ Lt Lane
414+45	854.34	Fill Face Bt #1 @ Lt Lane
414+50	854.15	Fill Face Bt #1 @ Lt Lane
414+55	853.97	Fill Face Bt #1 @ Lt Lane
414+60	853.77	Fill Face Bt #1 @ Lt Lane
414+65	853.58	Fill Face Bt #1 @ Lt Lane
414+70	853.39	Fill Face Bt #1 @ Lt Lane
414+75	853.19	Fill Face Bt #1 @ Lt Lane
414+80	853.00	Fill Face Bt #1 @ Lt Lane
414+85	852.80	Fill Face Bt #1 @ Lt Lane
414+90	852.60	Fill Face Bt #1 @ Lt Lane
414+95	852.40	Fill Face Bt #1 @ Lt Lane
415+00	852.20	Fill Face Bt #1 @ Lt Lane
415+05	851.99	Fill Face Bt #1 @ Lt Lane
415+10	851.79	Fill Face Bt #1 @ Lt Lane
415+15	851.58	Fill Face Bt #1 @ Lt Lane
415+20	851.38	Fill Face Bt #1 @ Lt Lane
415+25	851.17	Fill Face Bt #1 @ Lt Lane
415+30	850.96	Fill Face Bt #1 @ Lt Lane
415+35	850.75	Fill Face Bt #1 @ Lt Lane
415+40	850.54	Fill Face Bt #1 @ Lt Lane
415+45	850.32	Fill Face Bt #1 @ Lt Lane
415+50	849.11	Fill Face Bt #1 @ Lt Lane
415+55	848.89	Fill Face Bt #1 @ Lt Lane
415+60	848.67	Fill Face Bt #1 @ Lt Lane
415+65	848.45	Fill Face Bt #1 @ Lt Lane
415+70	848.23	Fill Face Bt #1 @ Lt Lane
415+75	848.01	Fill Face Bt #1 @ Lt Lane
415+80	847.79	Fill Face Bt #1 @ Lt Lane

PROFILE GRADE ELEVATIONS



CAMBER DIAGRAM



BRIDGE OVER BANNISTER ROAD FINISHED

STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-FG-353(22) (RTE. 71) STA. 413+50.4 (C. MEDIAN)

JACKSON COUNTY

NO CONSTRUCTION CHANGES

Drawn by W.E.S. & C.E.C.
 Checked by Dec. 1957 by H.J.K.

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
5	MO.		16	96	

(Twin) 56'-56'-56'-46' Continuous Slabs (Voided)

Note: All loose shelly or disintegrated rock removed and the footings of Bts. #1 & Bt. #5 (Left lane) placed on hard solid undisturbed rock. Footings of Bents #2, #3, #4 (Left lane) and #2, #3 (Right lane) carried at least 6" into hard, solid, undisturbed rock and cast against vertical faces of same. If soft rock or shale encountered, the footings carried at least 18" into and cast against vertical face of same.

In no case footings of Bents #2, #3 & #4 (Left lane), and left footing of Bents #2 & #3 (Right lane) placed higher than original plan elev. Right footings of Bents #2 & #3 (Right lane) placed no higher than original plan elev. for left footings.

Bearing of 7.9° Sq. Ft. used in design.

GENERAL NOTES:

1. See Specifications 15.1.4 (10-1957) for Future Wearing Surface.

2. Reinforcing Steel: See Section 15.1.1.1 (10-1957) for details.

3. Concrete: Class B Air-Entrained Substructure Concrete.

4. Superstructure: Class B1 Air-Entrained Concrete.

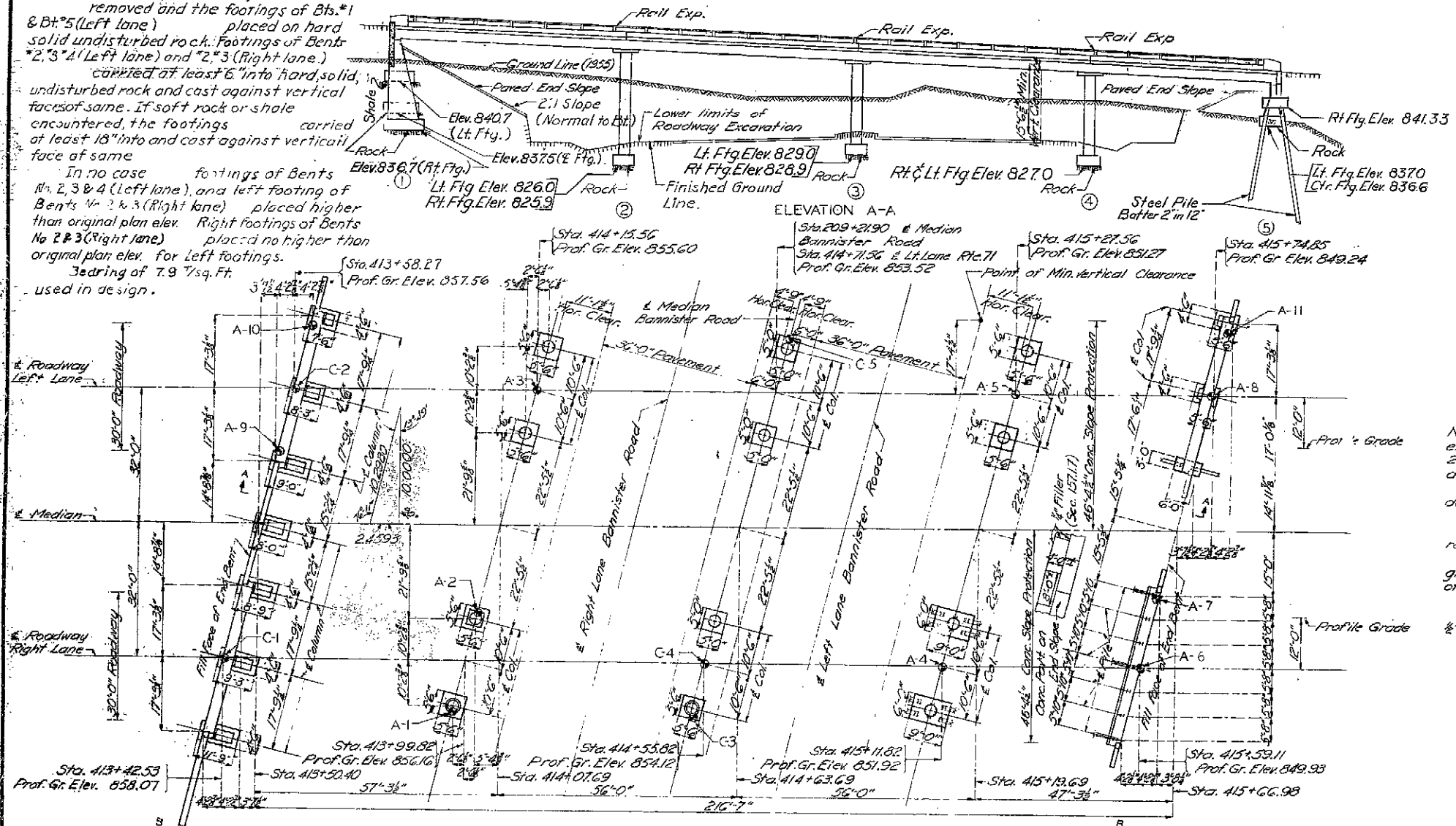
5. Superstructure deck surface sealed. (See Spec. Provisions)

6. Permits obtained for all truck loads over legal length.

7. Qualification of welding operators required.

8. See Section 52.4.7 of Standard Specifications for required painting of steel piles.

9. Where joint filler is specified on the plans, it conform with the requirements of Section 157.2.4 of the Standard Specifications.



Note: Compacted roadway fill (full roadway width) placed up to elevation of bottom of concrete beam in front of and not less than 25'-0" in back of End Bent No. 5 (Right Lane) before steel piles driven for Bents No. 4 and 5 (Right Lane).

All piling 10" bearing piles of 42" and conform with details and notes on Sheet No. 8 of design plans.

required bearing and/or penetration authorized by the Engineer.

All piles 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 35 ton per pile.

All piles driven with a power hammer.

Concrete slope protection and filler included under road contract. Provide 1/2" filler between slope protection and end bents. (See Section 157.1.7.)

Item	QUANTITIES		
	Substr.	Superstr.	Total
Class I Excavation for Structures	Cu. Yds. 313.5		313.5
Class B Concrete	Cu. Yds. 220.6		220.6
Class B1 Concrete	Cu. Yds. 1106.3		1106.3
Reinforcing Steel	Lbs. 19840	255070	274910
Bridge Rail (Single Tube Type)	Lin. Ft. 272	832	832
Steel Piles in Place	Lin. Ft. 775		775
Steel Pile Cut-offs	Lin. Ft. 71		71

Note: All excavation for bridge paid for as Class I Excavation for Structures. Estimated Quantities of Class I Excavation for Structures includes only amount of excavation below lower limits of Roadway Excavation.

All concrete and reinforcement in End Bents and in footings and pedestals for Intermediate Bents included in Substructure Quantities.

BM #30 End of snap tie cast in top of right wingwall - Right Lane End Bent 1 Elev. 858.89

BM #29 End of snap tie cast in top of left wingwall Right Lane End Bent 5 Elev. 850.49

BRIDGE OVER BANNISTER ROAD

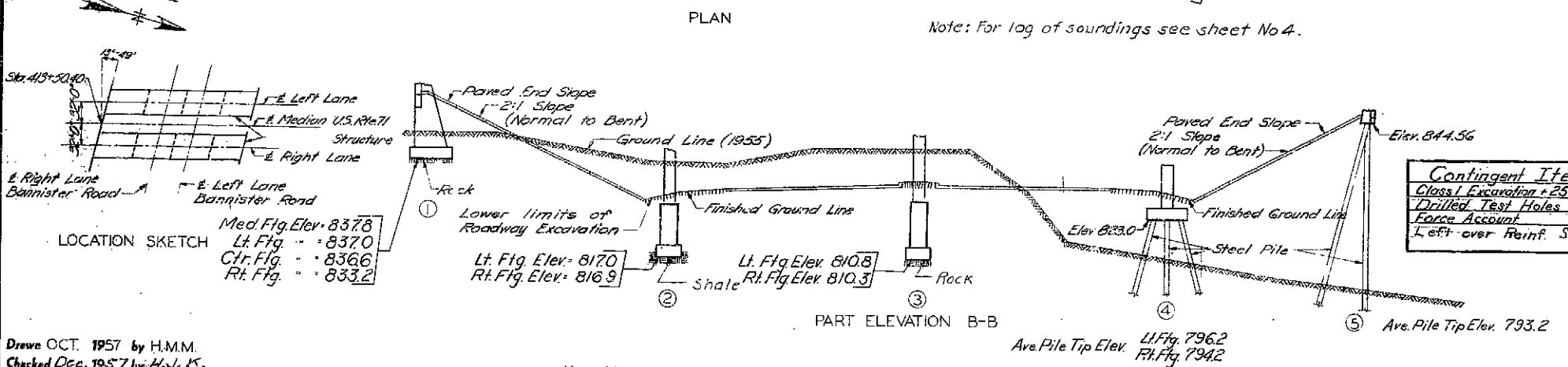
STATE ROAD FROM GRANDVIEW TO KANSAS CITY FINISHED

ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO. F-FG-353(22)(RT. 71) STA. 413+50.4 (E. MEDIAN)

JACKSON COUNTY

Contingent Items	Unit	Quantity
Class I Excavation + 25%	Cu. Yds.	435.5
Drilled Test Holes	Lin. Ft.	272
Force Account	Dollars	1632.37
Left-over Reinf. Steel	Lbs.	



Drawn OCT. 1957 by H.M.M.
Checked Dec. 1957 by H.J.K.

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

FINISHED SUBMITTED BY *Leo F. Priebe* DATE 10-10-60
APPROVED BY *Ref. M. Whitton* DATE 10-10-60

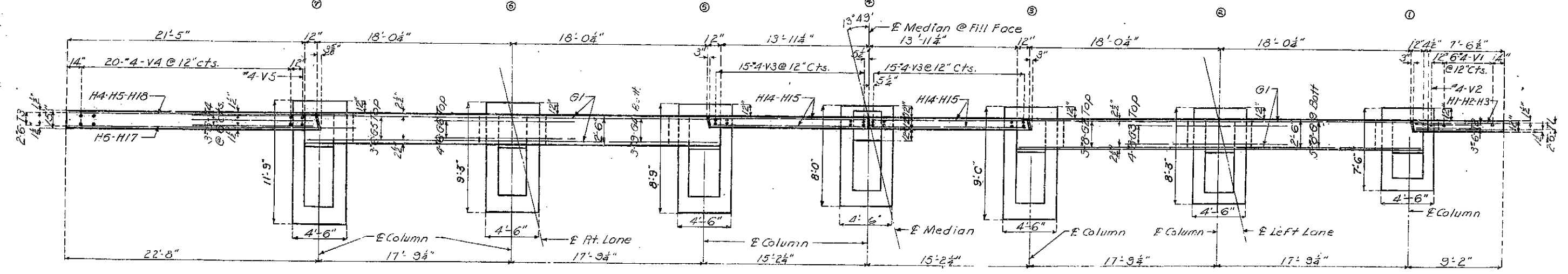
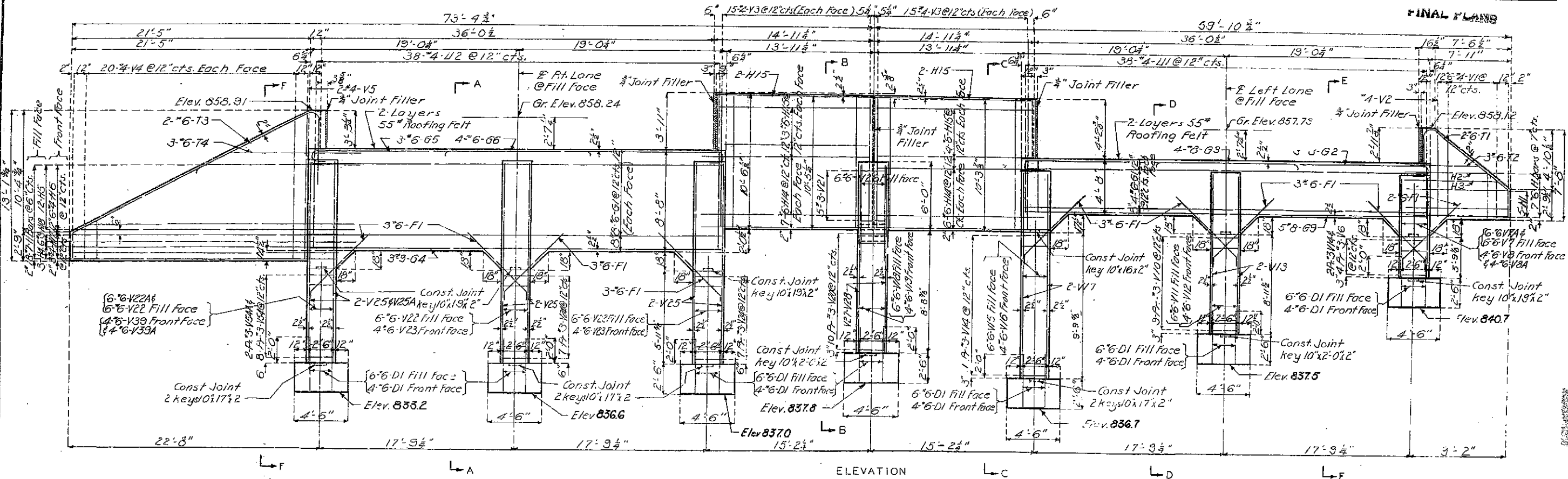
Sheet No. 1A of 7

FINAL PLANS

STD 54.00
L-842

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	98	



Note: Fill at end bent No. 1 carried above bottom of beam and wings until superstructure span (1-2) in place.

Note: See Sheet No. 4 for Sections A-A, B-B, C-C, D-D, E-E and F-F.

FINISHED

BRIDGE OVER BANNISTER ROAD

STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 5.0 MILES N. OF GRANDVIEW
PROJECT NO. F-G-353(22)(RTE. 7) STA. 413+50.4 (E MEDIAN)
JACKSON COUNTY

FINISHED

Drawn OCT 1957 by C.V.S.
Checked Dec. 1957 by H.J.K.

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

Sheet No. 3A of 7.

FINISHED

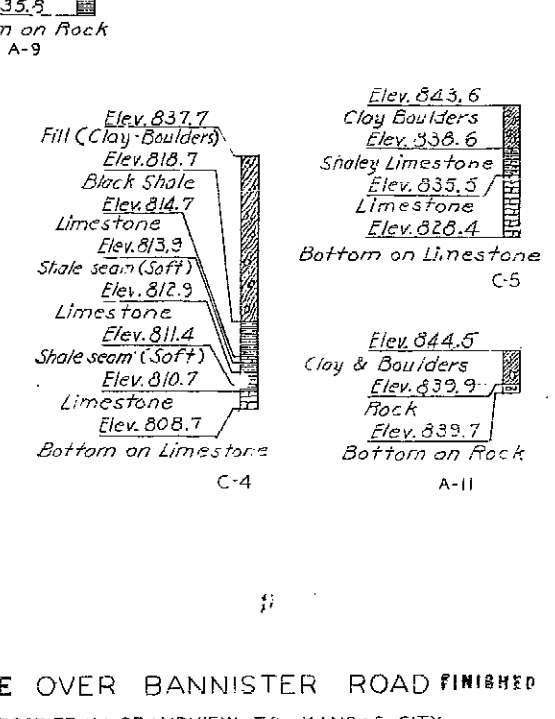
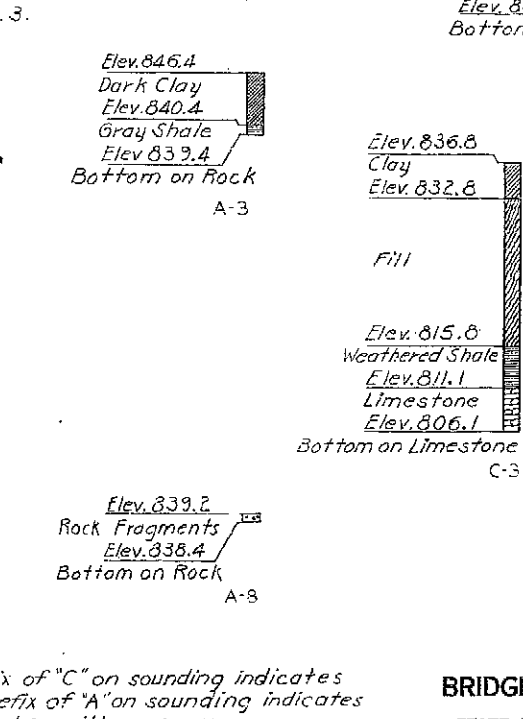
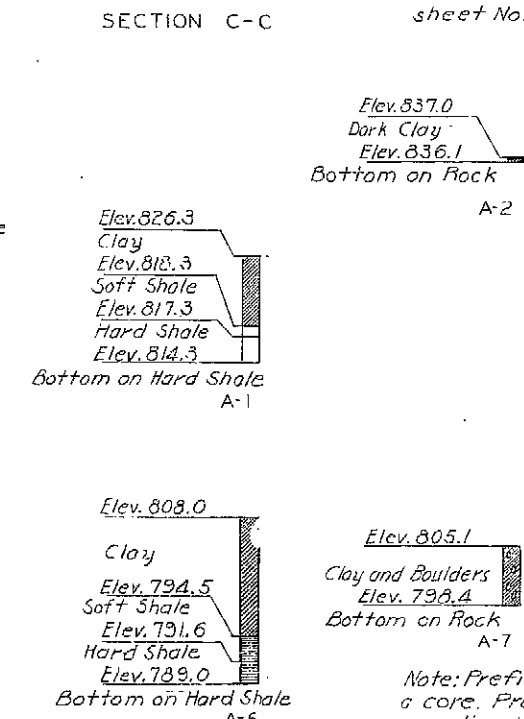
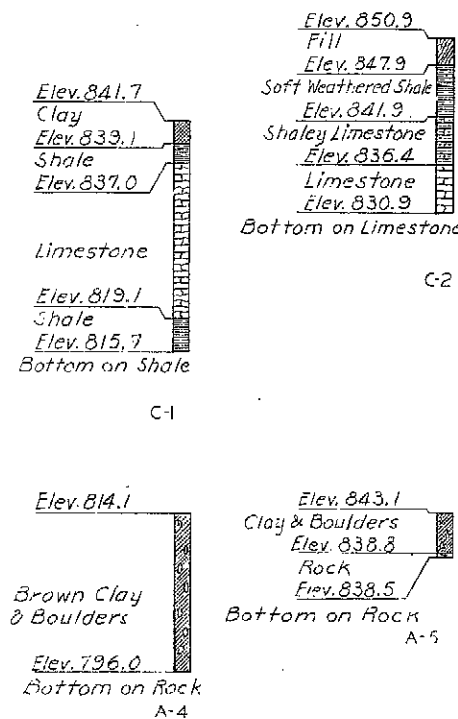
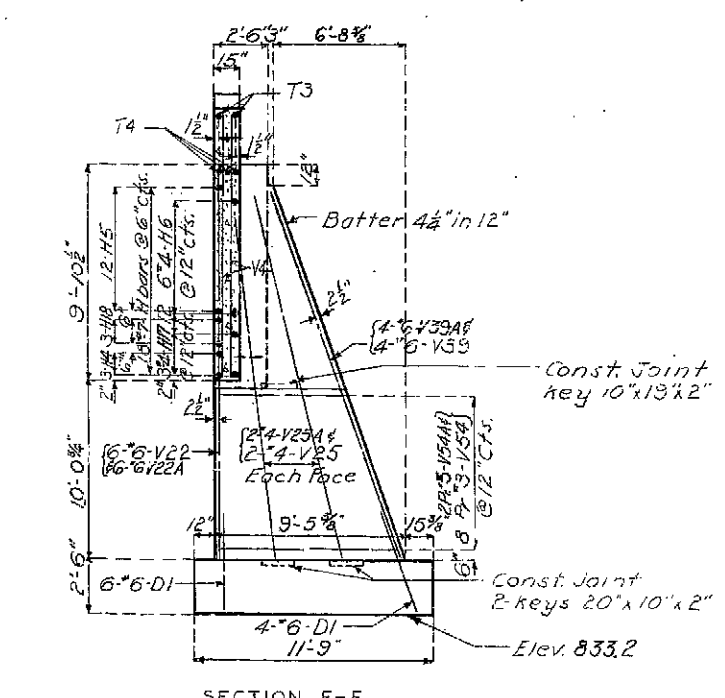
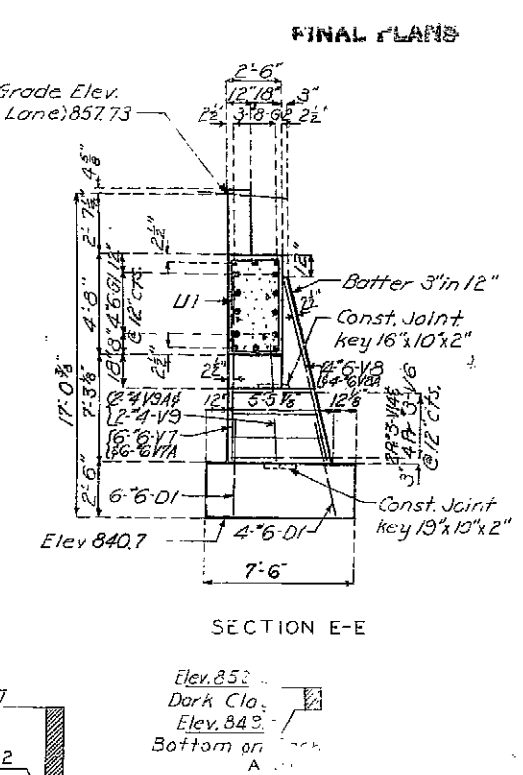
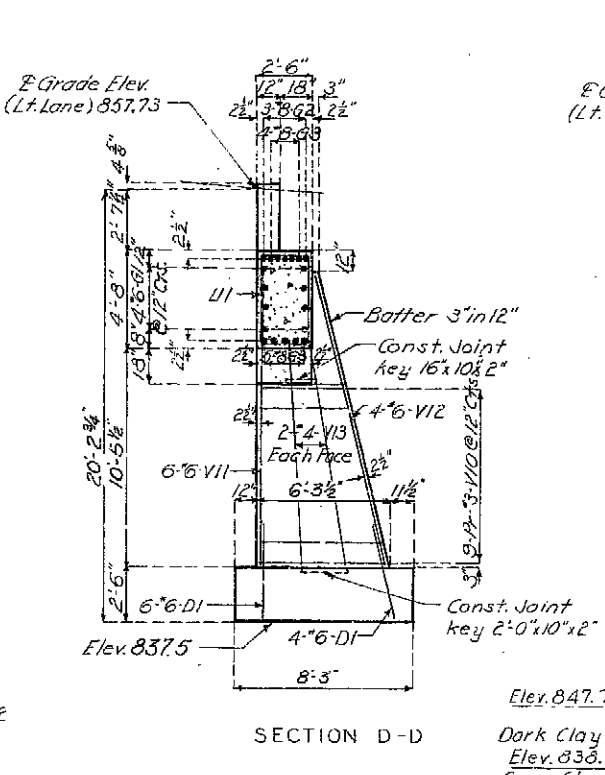
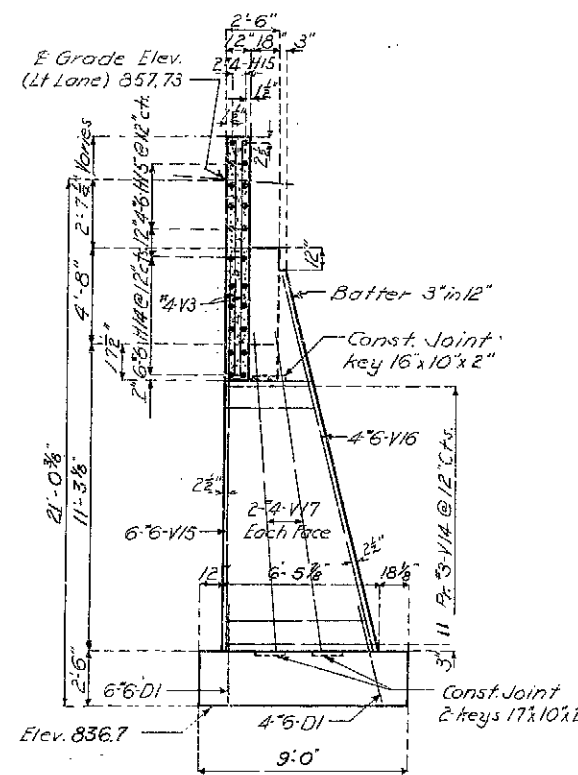
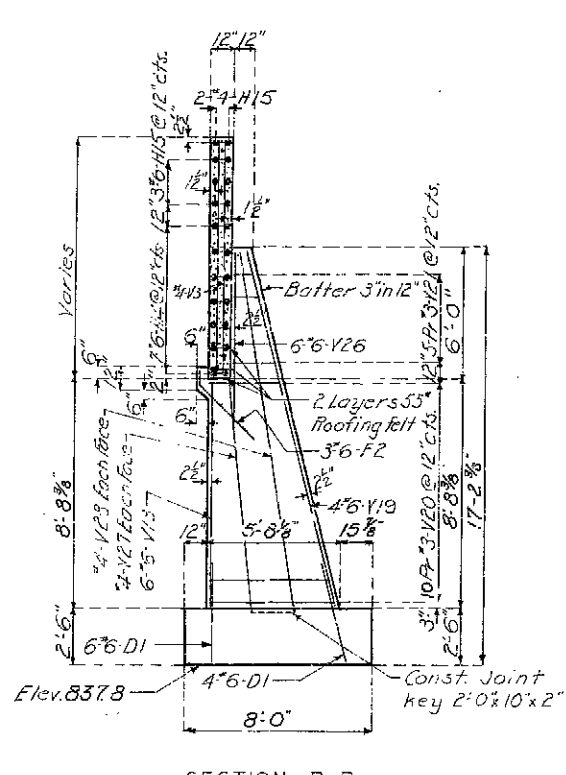
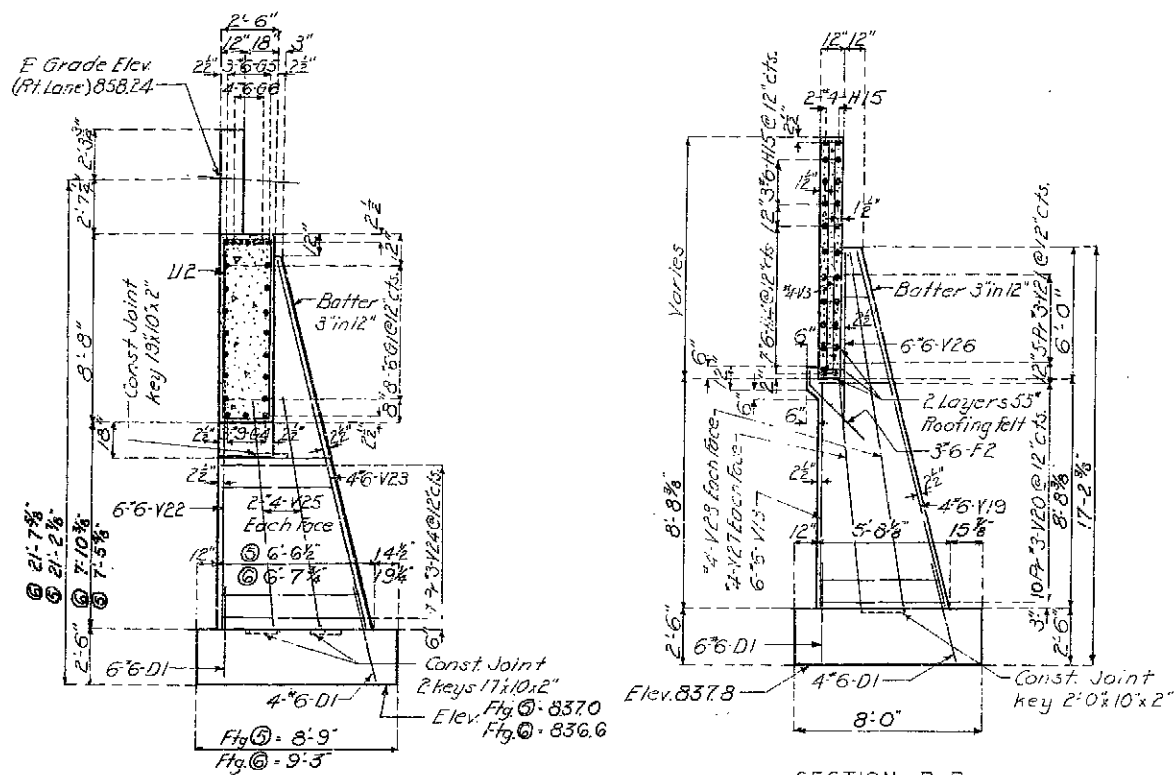
L-842

FINAL PLANS

516

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	99	



Note: For location of Sections see sheet No. 3.

Note: Prefix of "C" on sounding indicates a core. Prefix of "A" on sounding indicates sounding taken with an auger.

Note: For location of soundings see sheet No. 1

BRIDGE OVER BANNISTER ROAD FINISHED
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. FFG-353(2)X(RTE. 71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY FINISHED

517

Drawn OCT. 1957 by O.J.S.
 Checked Dec. 1957 by H.J.K.

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

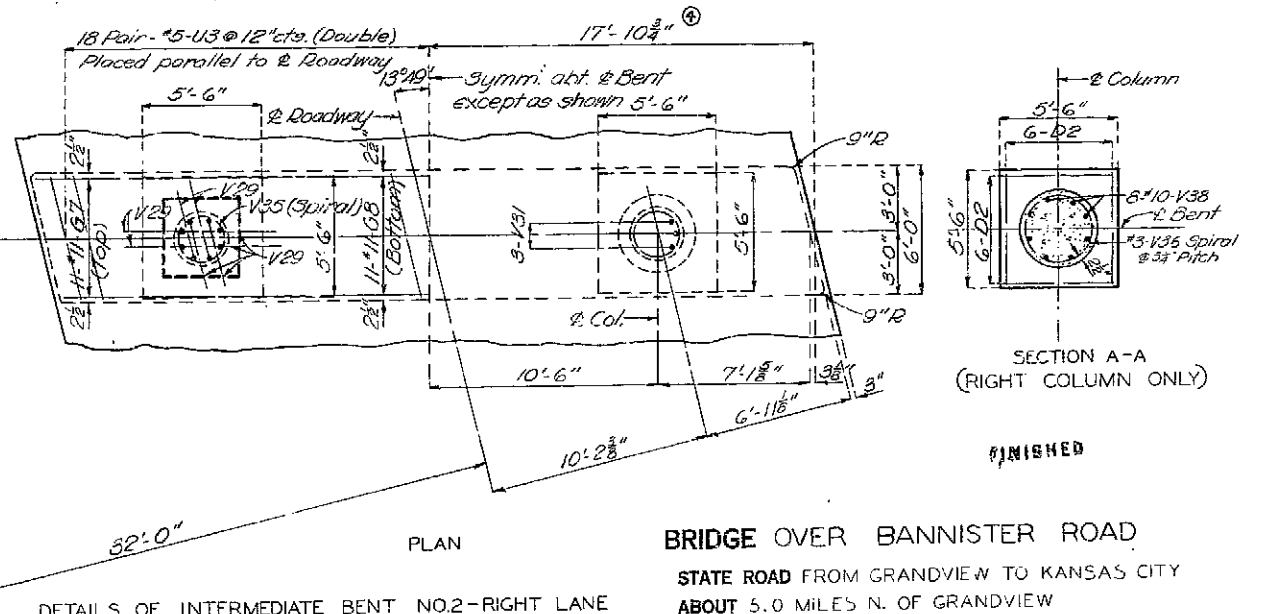
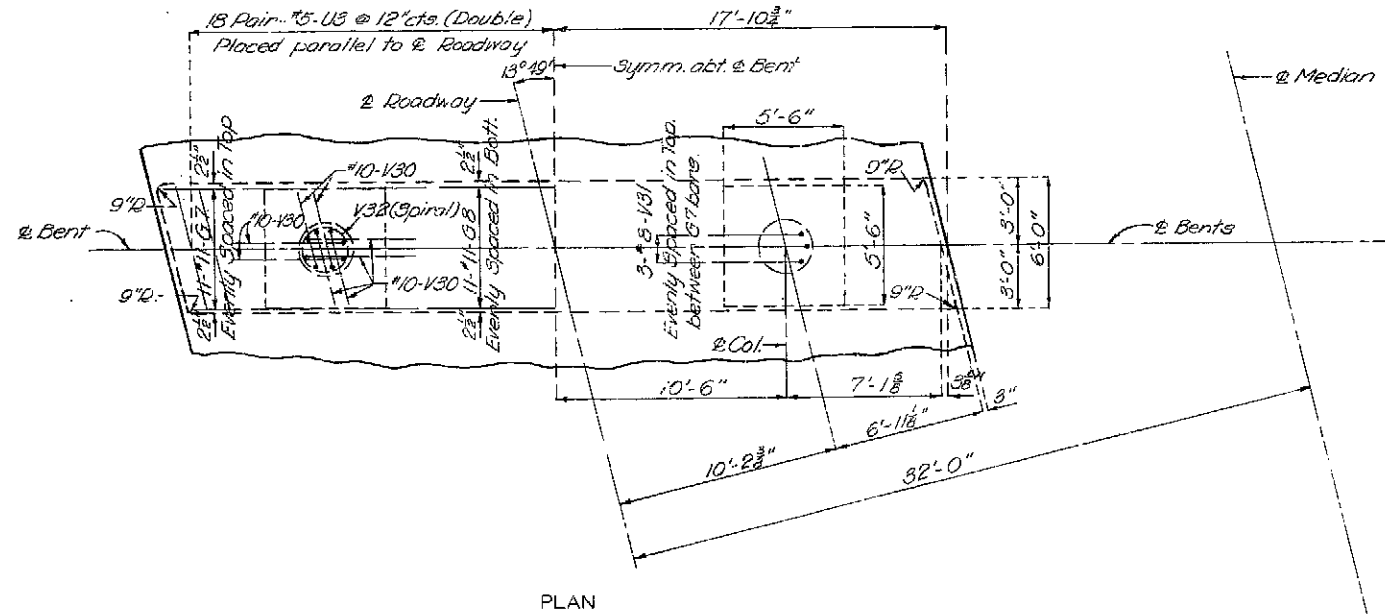
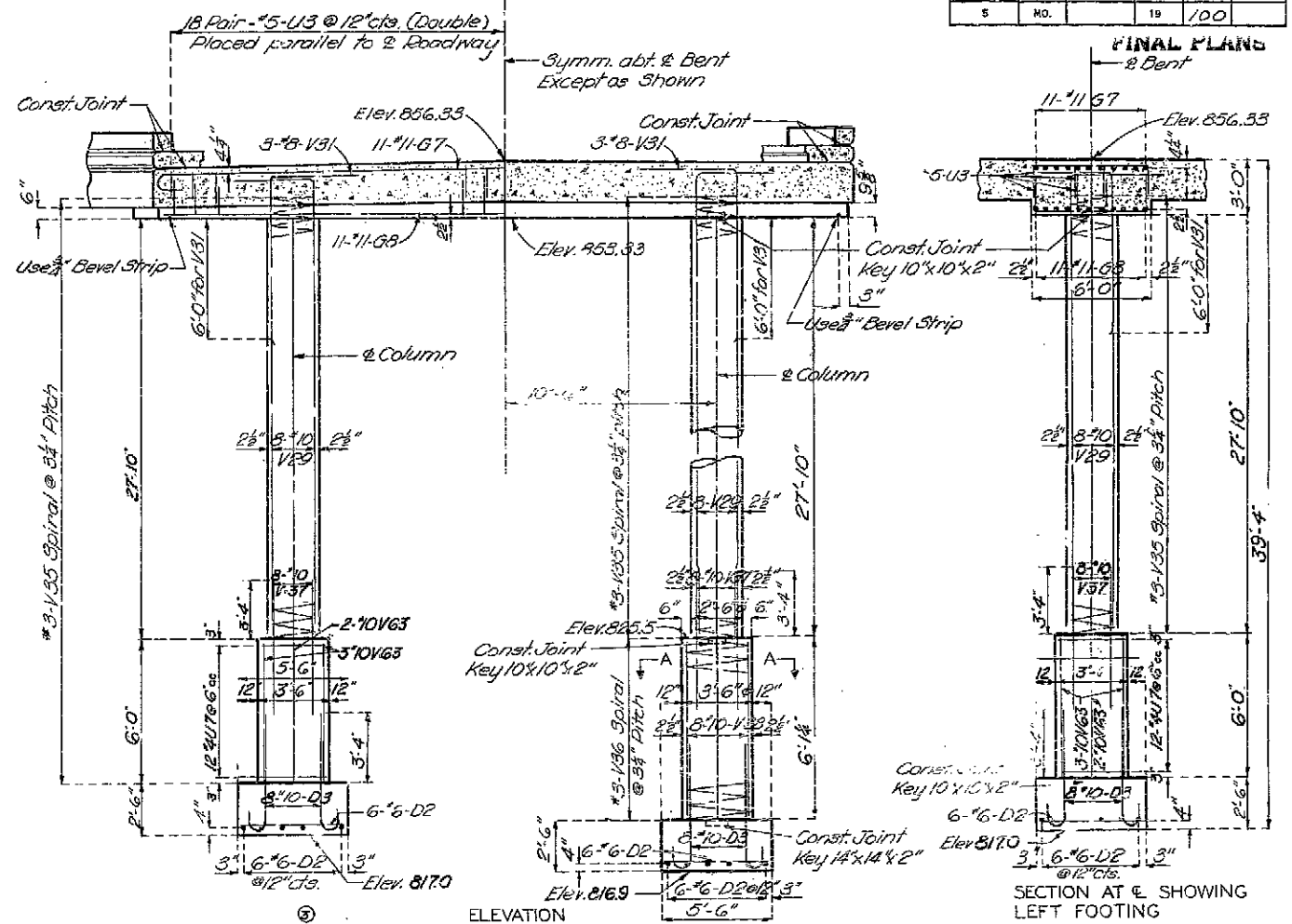
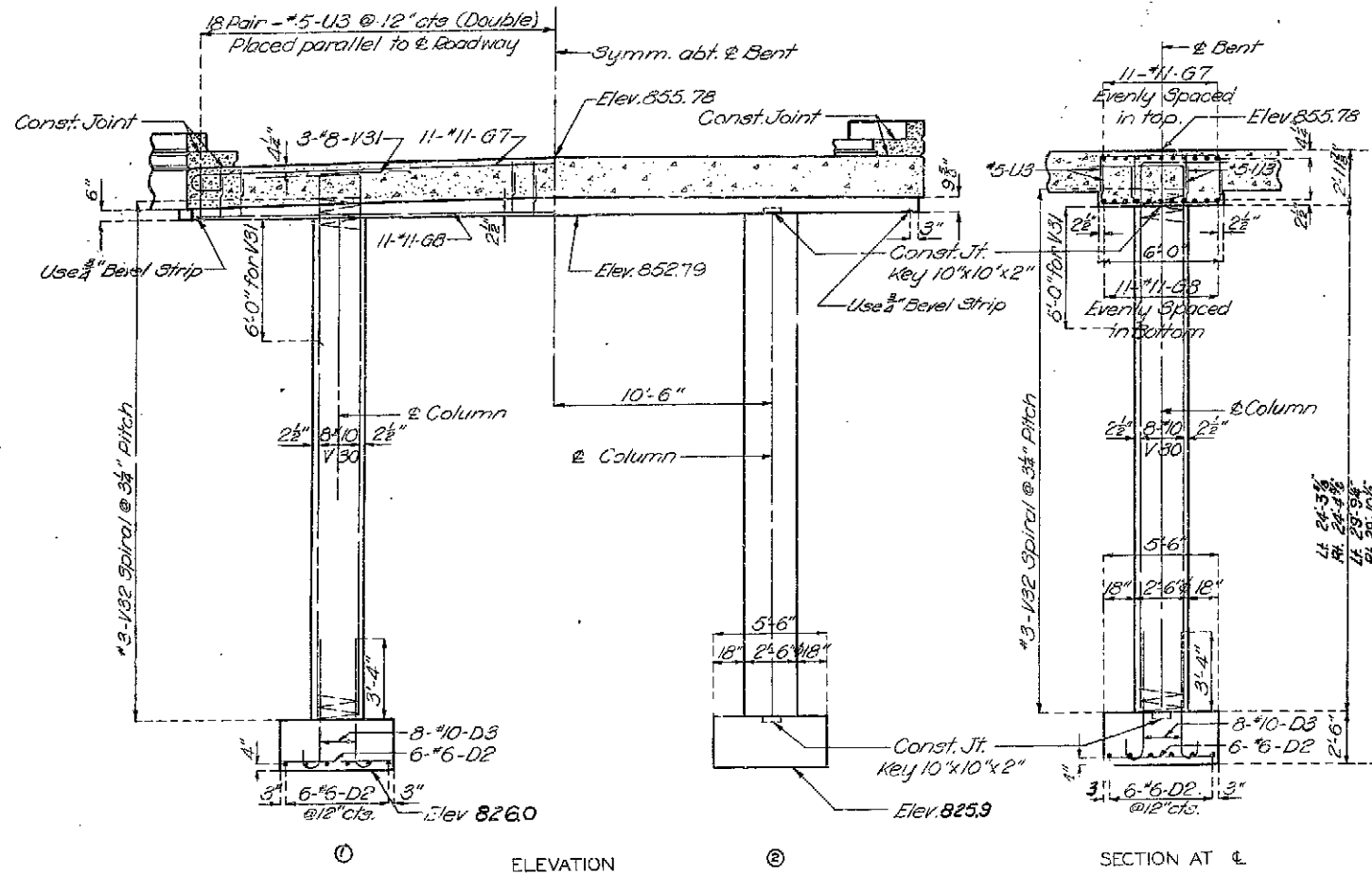
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FINAL PLANS

L-842

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5			19	100	



518

DETAILS OF INTERMEDIATE BENT NO.2-LEFT LANE

DETAILS OF INTERMEDIATE BENT NO.2-RIGHT LANE

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO.F-FG-353(22) (RTE7) STA. 413+50.4 (E. MEDIAN)

FINISHED JACKSON COUNTY FINISHED

Drawn OCT. 1957 by H.M.
 Checked Dec. 1957 by H.J.M.

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

Sheet No. 5A of 7

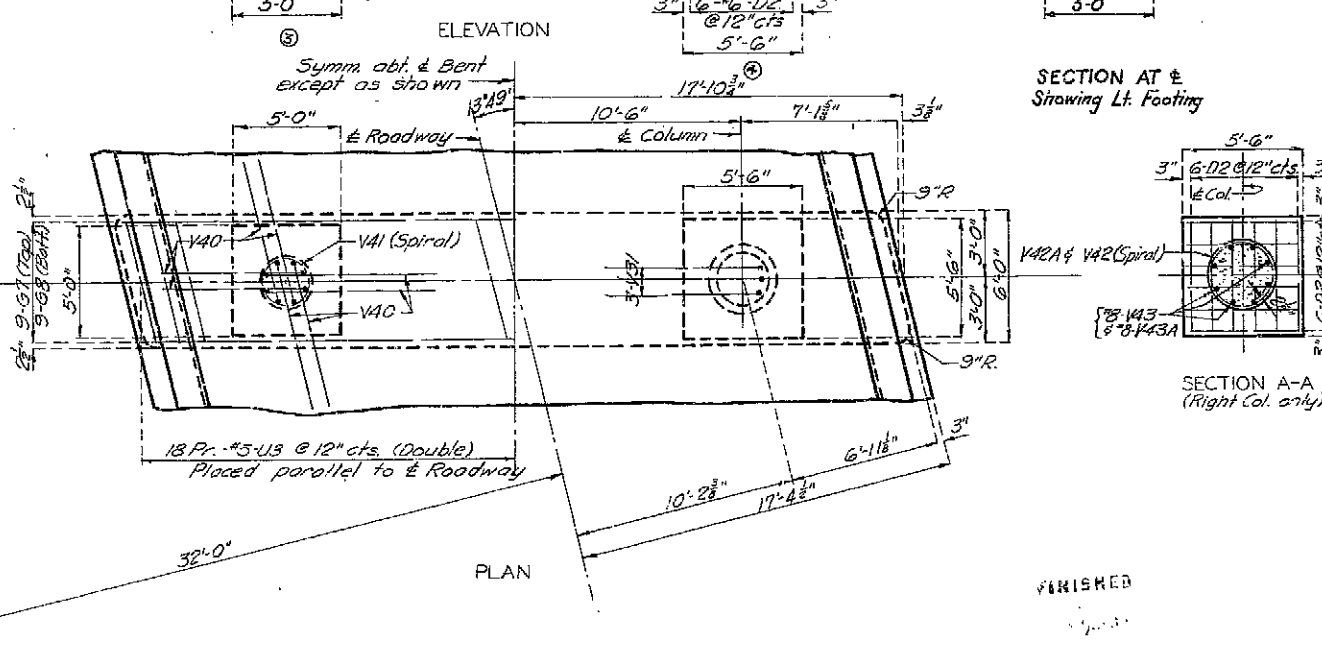
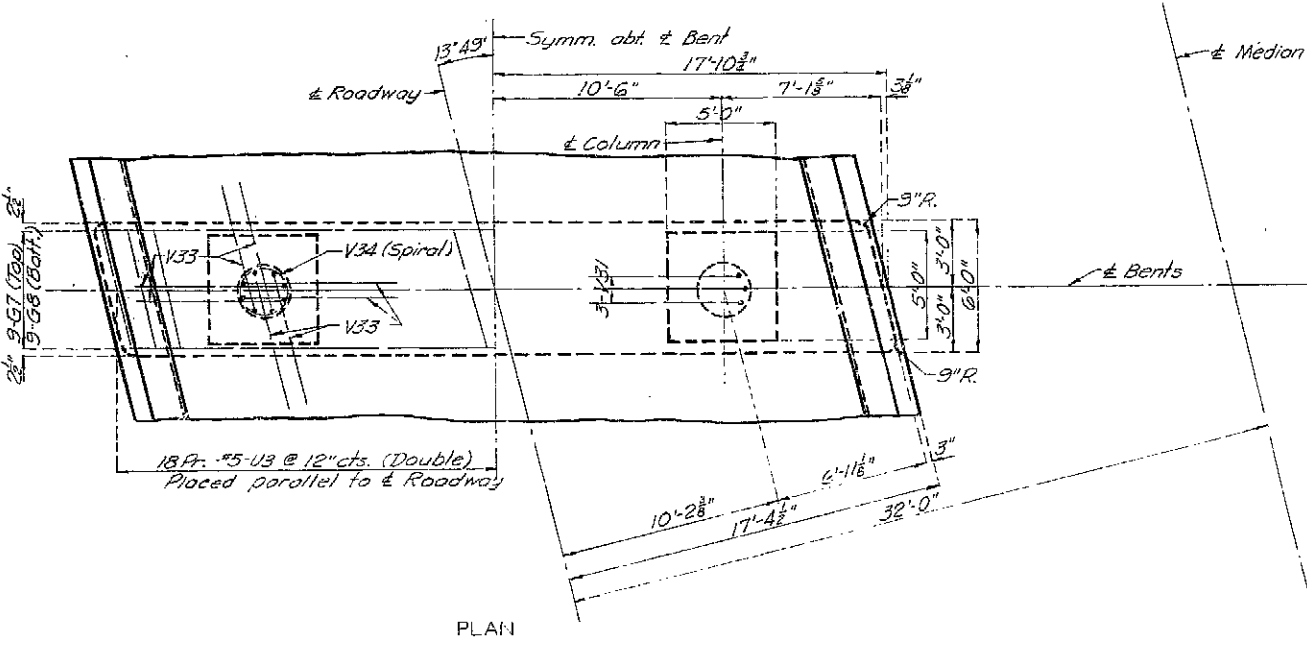
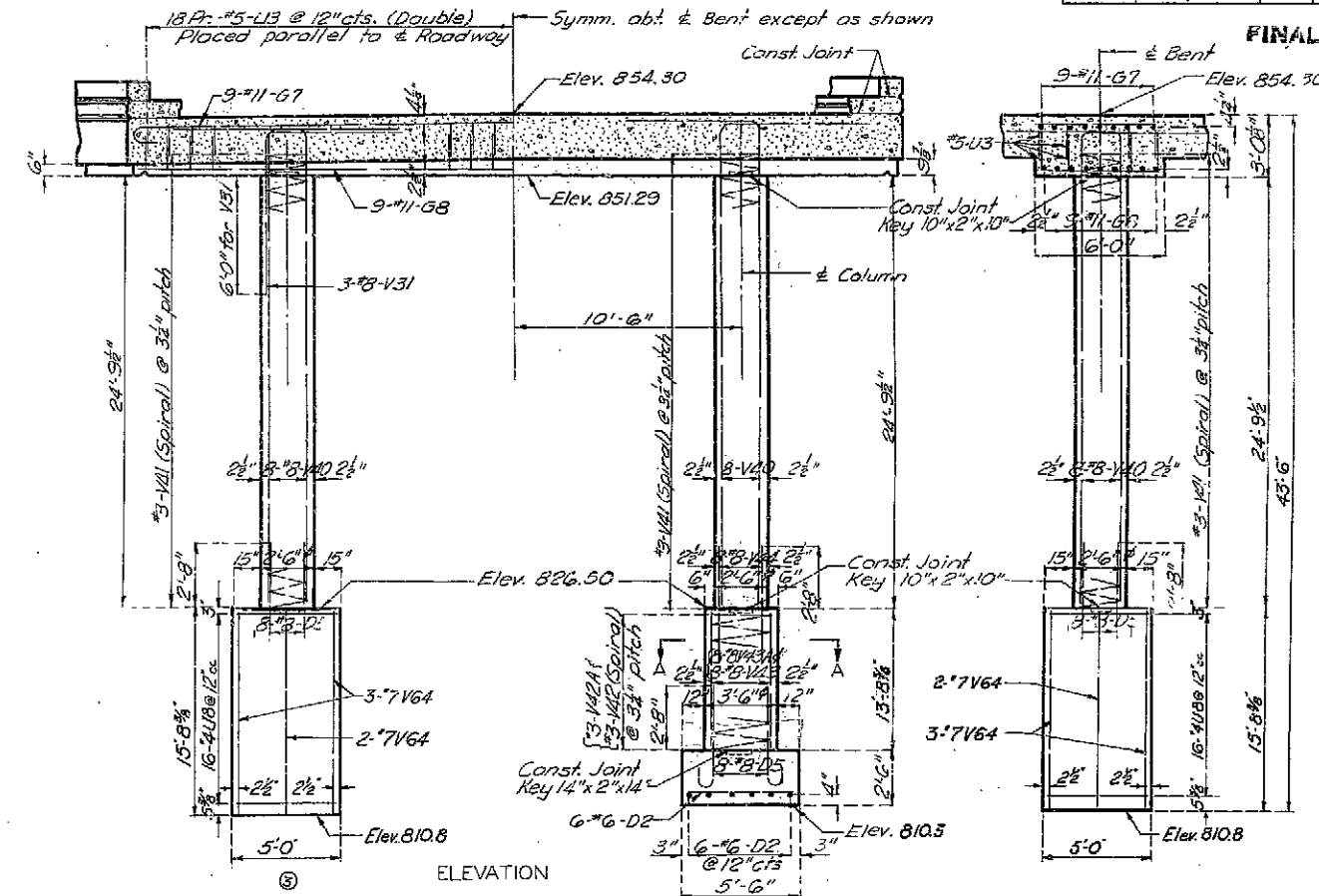
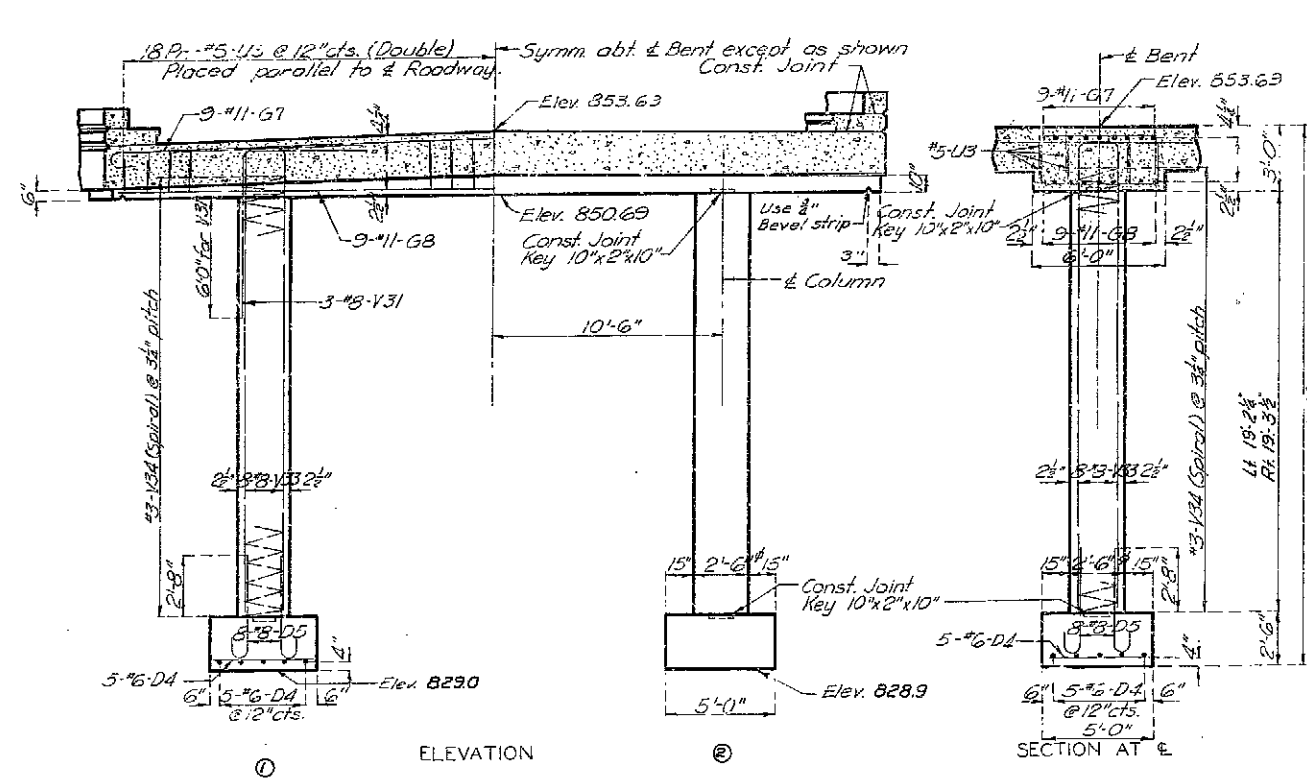
FINISHED

L-942

FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE NO.	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5			19	101	



FINAL PLANS

DETAILS OF INTERMEDIATE BENT NO. 3 - LEFT LANE

DETAILS OF INTERMEDIATE BENT NO. 3 - RIGHT LANE

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-G-35322(RTE. (71)) STA. 413+50.4 (E. MEDIAN)

JACKSON COUNTY

Drawn Oct. 1957 by M.H.P.
 Checked Dec. 1957 by H.J.K.

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

Sheet No. 6A of 7.

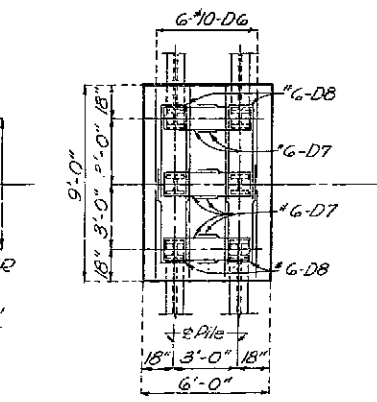
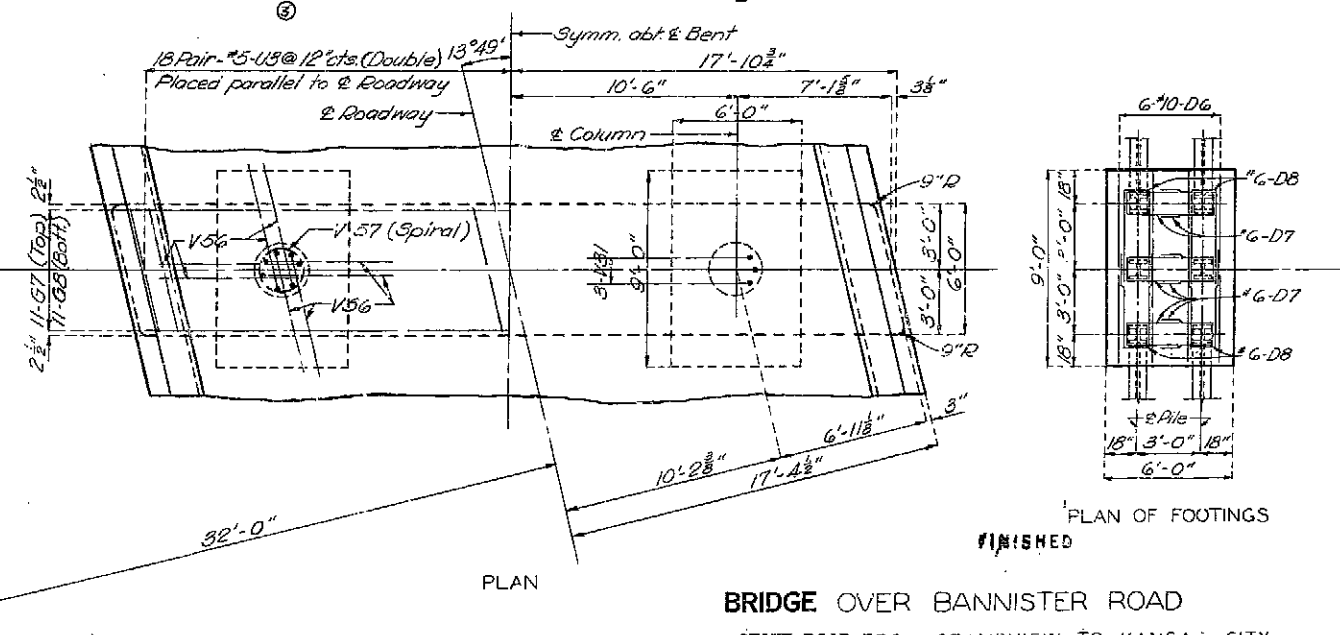
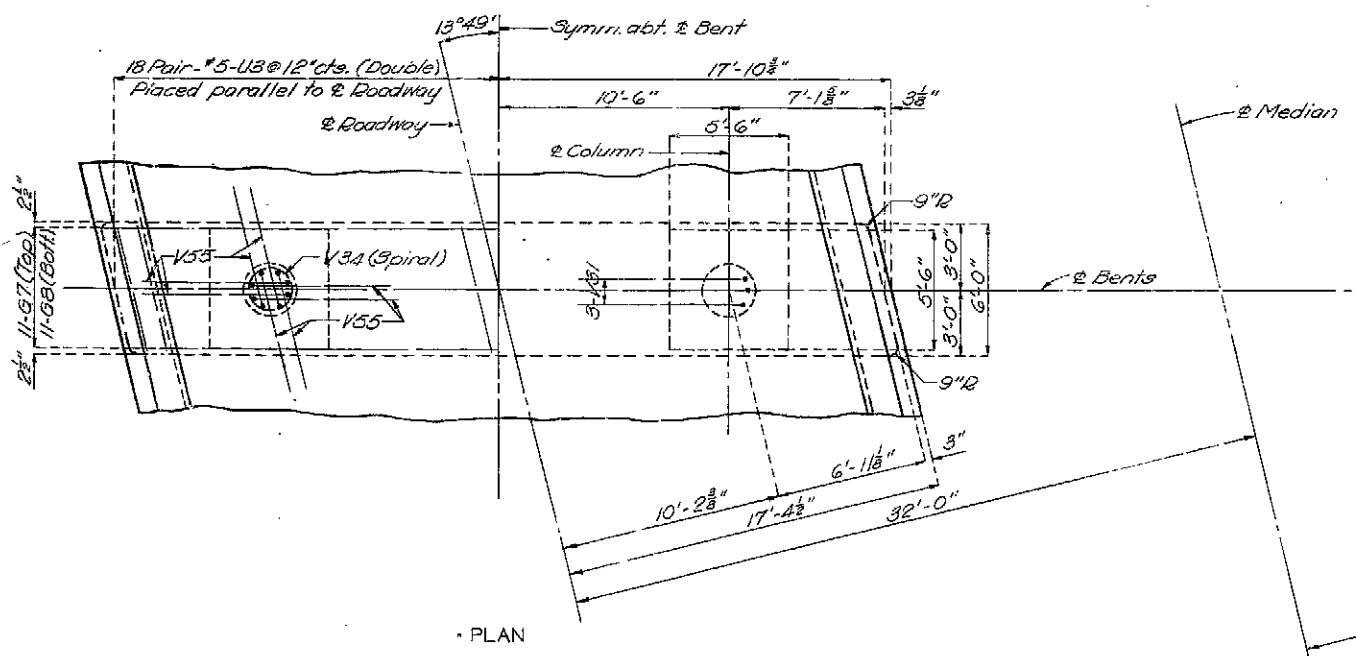
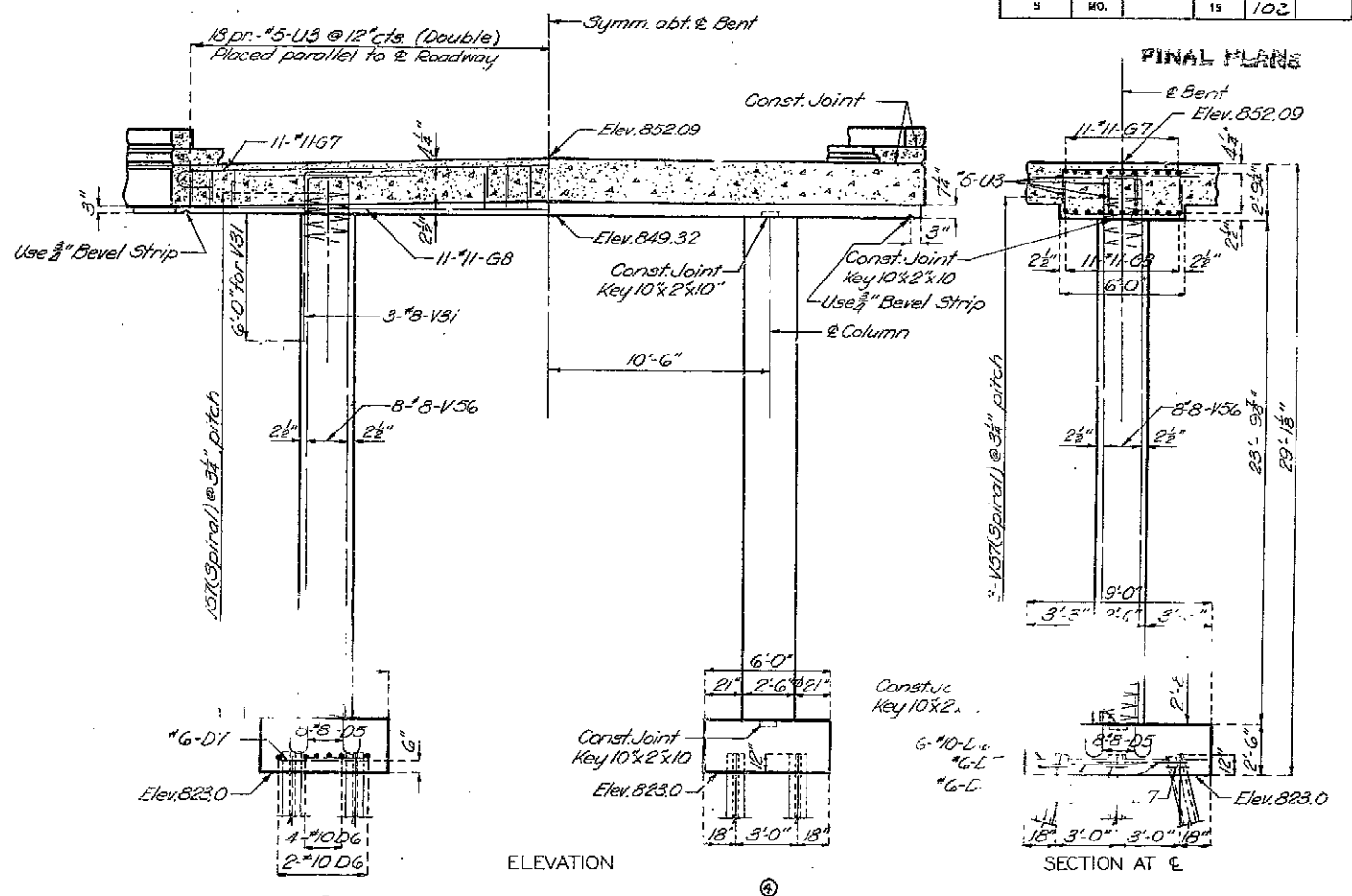
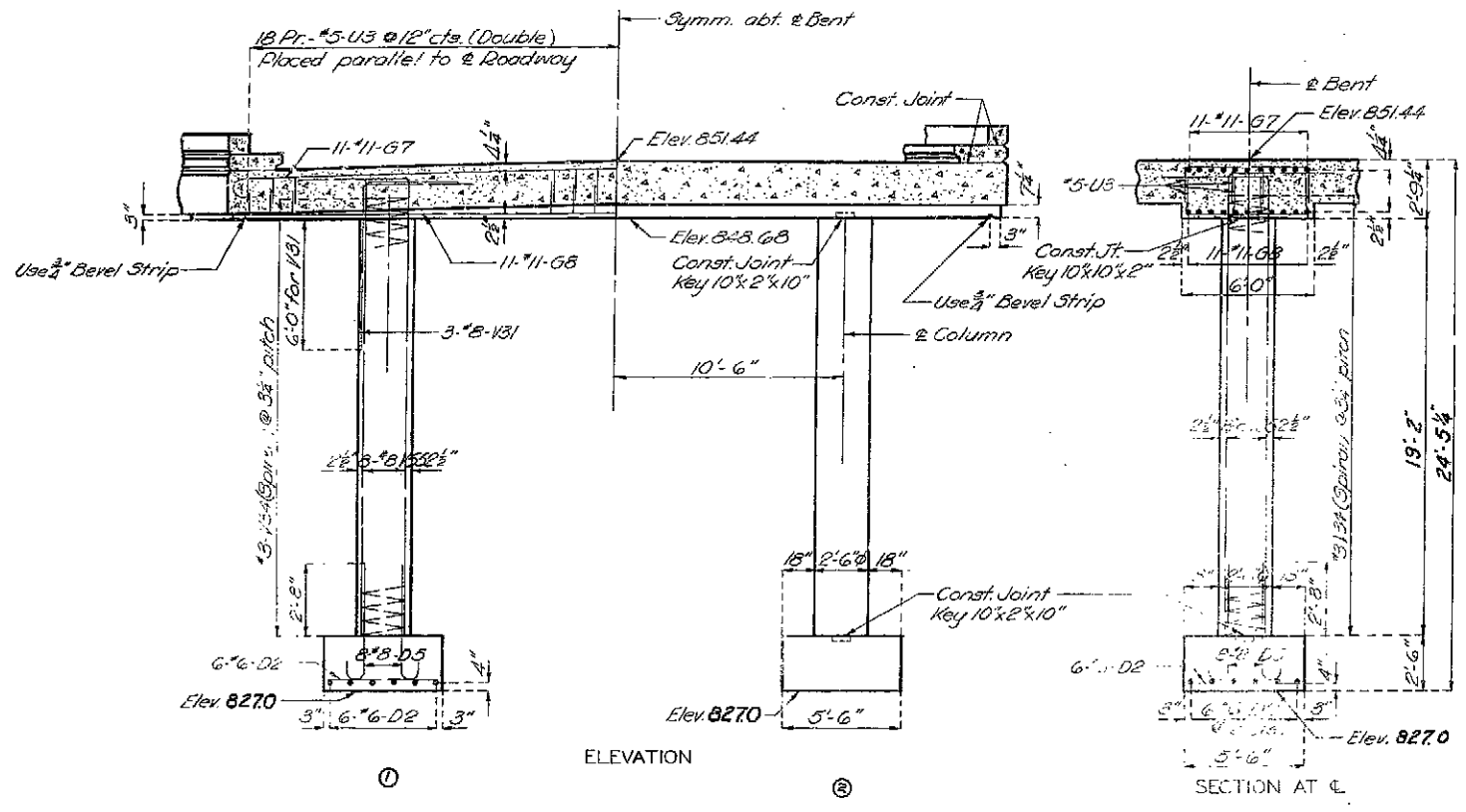
FINAL PLANS

L-842

519

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MO.		19	102	



DETAILS OF INTERMEDIATE BENT NO.4-LEFT LANE

DETAILS OF INTERMEDIATE BENT NO.4-RIGHT LANE

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-G 353122(RTE.71) STA. 413+50.4 (C MEDIAN)
 JACKSON COUNTY

Drawn OCT. 1957 by H.M.
 Checked Dec. 1957 by H.J.K.

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

Sheet No. 7A of 7

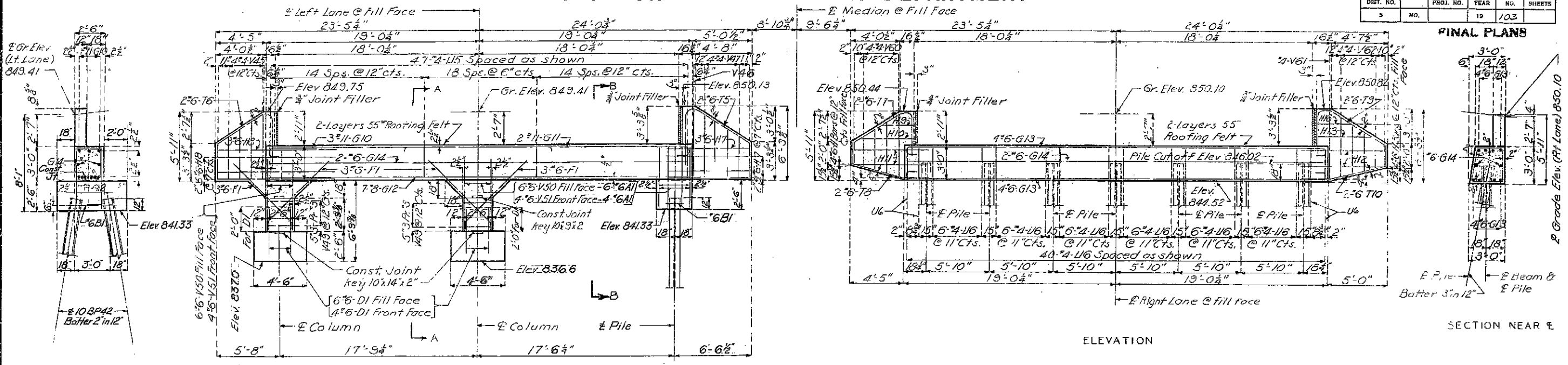
FINAL PLANS

L-842

520

MISSOURI STATE HIGHWAY DEPARTMENT

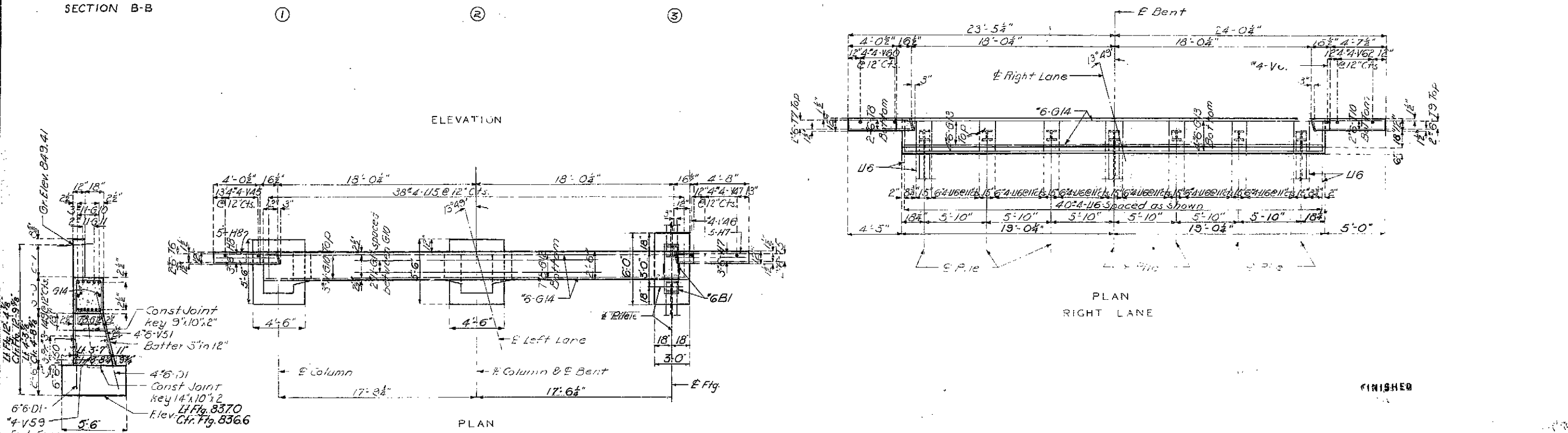
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	103	



SECTION B-B

ELEVATION

SECTION NEAR E



ELEVATION

PLAN RIGHT LANE

PLAN LEFT LANE

DETAILS OF END BENT NO. 5

Note: Fill at End Bents No. 5 carried above bottom of beam and wings until superstructure spans (4-5) in place.

BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. F-G-35322(RTE. 71) STA. 413+50.4 (E. MEDIAN)
 JACKSON COUNTY

Drawn OCT. 1957 by O.J.S.
 Checked Dec. 1957 by H.J.K. & D.B.

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

Sheet No. 8A of 7.

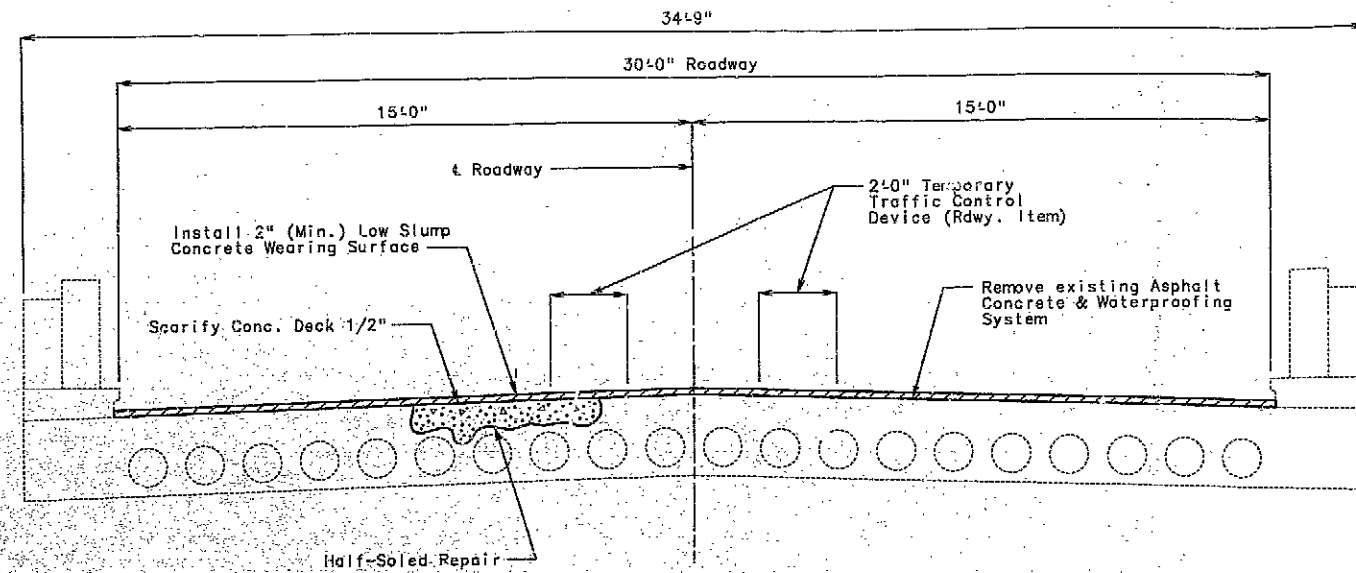
FINAL PLANS

L-642

521

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PROJ. NO.	SHEET NO.
MO.		15
SEC./SUR.	TWP.	RGE.

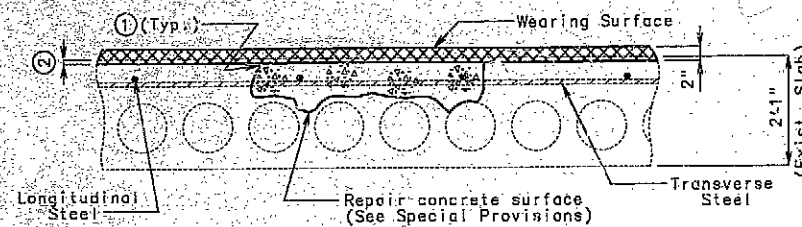


SECTION THRU SLAB

LEFT LANE SHOWN
RIGHT LANE SIMILAR

DECK REPAIR

TYP. SECTION THRU SLAB



HALF-SOLED AREA

- ① Saw-cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.)
- ② Scarify existing slab (1/2" Min.).

GENERAL NOTES:

Old Work:

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

Maintain Traffic:

Maintain one lane of traffic in each direction over structure during construction. (See Rdwy. Plans)

Maintain Grade:

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

ESTIMATED QUANTITIES		
ITEM		TOTAL
Asphalt Removal (Bridges)	Sq. Ft.	12995
Repairing Conc. Deck (Half-Soling)	Sq. Ft.	100
Low Slump Concrete Wearing Surface	Sq. Yd.	1444

REPAIRS TO
BRIDGE OVER BANNISTER ROAD

STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 1 mile North of Rte. I-435

PROJECT NO. STA. 413+50.4
JOB NO. J4P1217 RTE. 71

JACKSON COUNTY

DATE 7/6/94

STD.
STD.
STD.
L08422

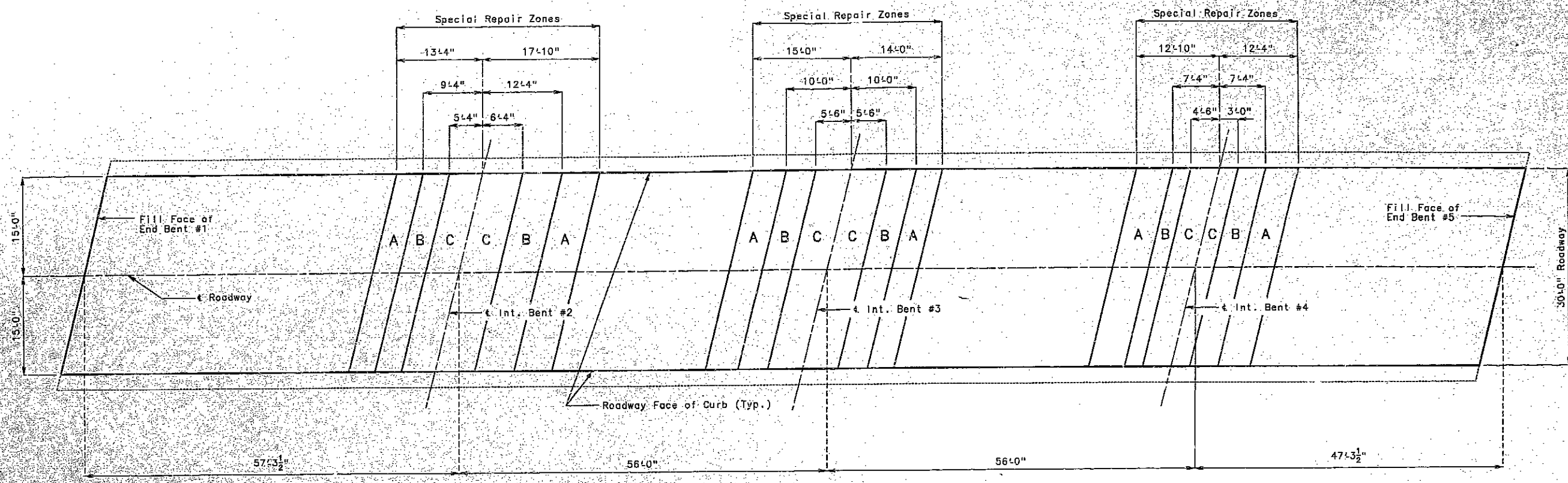
DETAILED APR. 1994
CHECKED MAY 1994

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

SHEET NO. 1 OF 2

SEE FINAL PLANS

81 20



NOTES:

Any repair in the remainder of the bridge that is within 4'-0" of zone A shall be completed before removing old concrete in zones A. Zones with the same letter designation may be repaired at the same time.

PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

878
 DETAILED APR. 1994
 CHECKED MAY 1994

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

SHEET NO. 2 OF 2

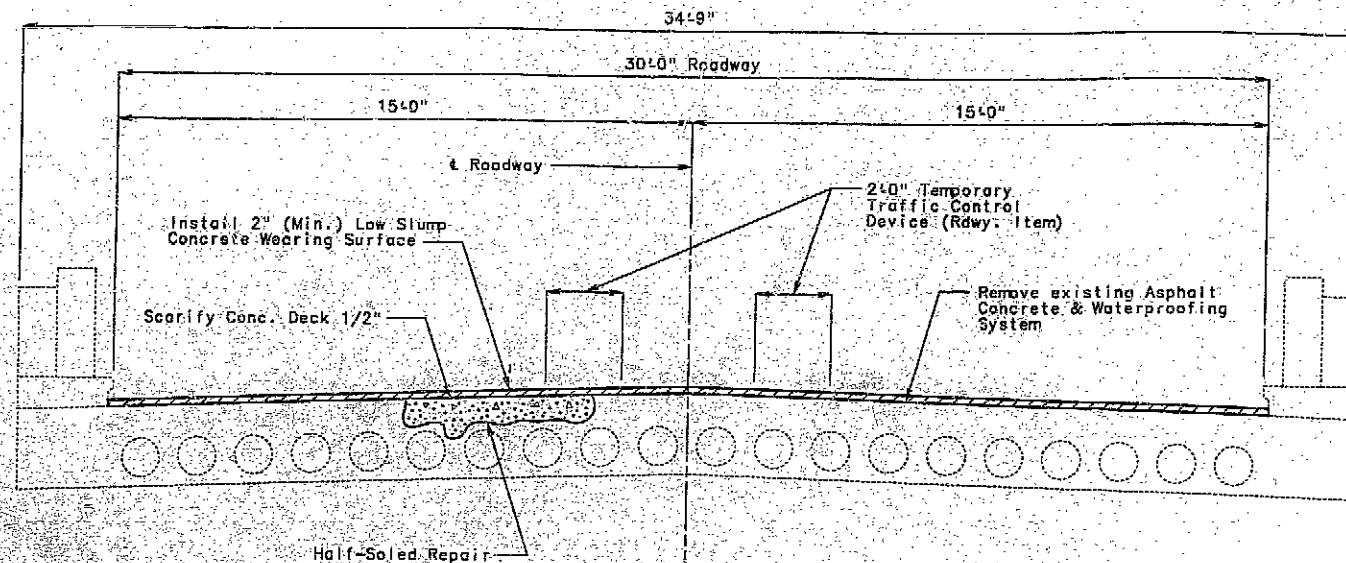
JACKSON

COUNTY

L08422

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	PROJ. NO.	SHEET NO.
MO.	CA241-840-100M	15
SEC./SUR.	TWP.	RGE.

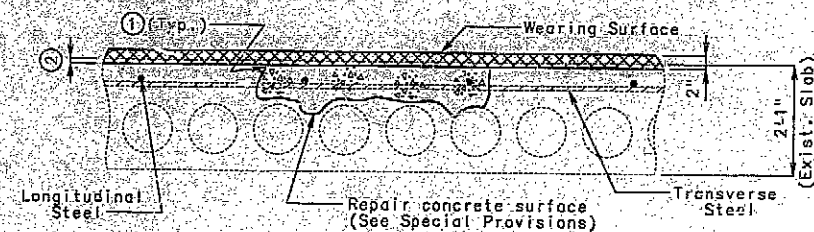


SECTION THRU SLAB

LEFT LANE SHOWN
RIGHT LANE SIMILAR

DECK REPAIR

TYP. SECTION THRU SLAB



HALF-SOLED AREA

- ① Saw cut or vertically chip first 1/2" of all deck repair. (Hydroblasting allowed by special provisions.)
- ② Scarify existing slab (1/2" Min.).

GENERAL NOTES:

Old Work:

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

Maintain Traffic:

Maintain one lane of traffic in each direction over structure during construction. (See Rdwy. Plans)

Maintain Grade:

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

FINAL QUANTITIES

ITEM	TOTAL
Asphalt Removal (Bridges)	Sq. Ft. 12995 ✓
Repairing Conc. Deck (Half-Soling)	Sq. Ft. 440 ✓
Low Slump Concrete Wearing Surface	Sq. Yd. 1444 ✓

REPAIRS TO
BRIDGE OVER BANNISTER ROAD

STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 1 mile North of Rte. I-435

PROJECT NO. STA. 413+50.4

JOB NO. J4P1217 RTE. 71

JACKSON COUNTY

STD.
STD.
STD.

DATE 7/6/94

L08422

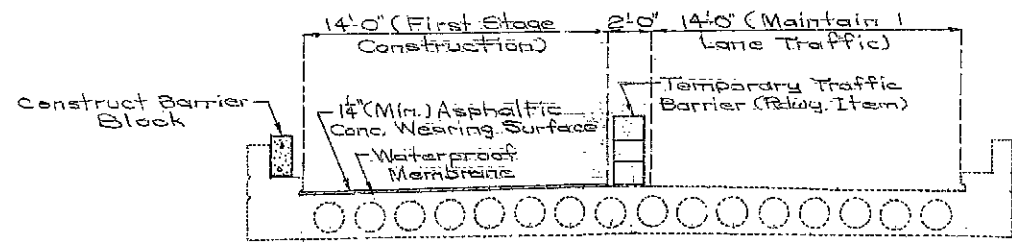
DETAILED APR. 1994
CHECKED MAY 1994

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

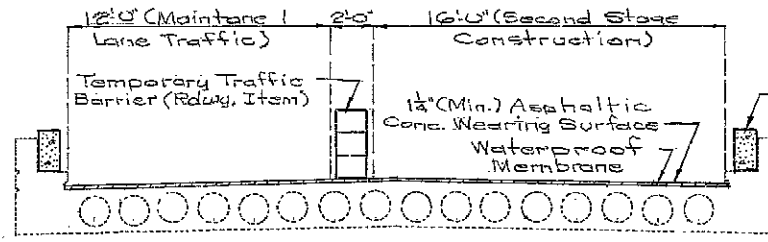
SHEET NO. 1A OF 2

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	PR-488-71-4 (25)	19	13	
SEC./SUR. 2C TWP. 48N RGE. 33W					

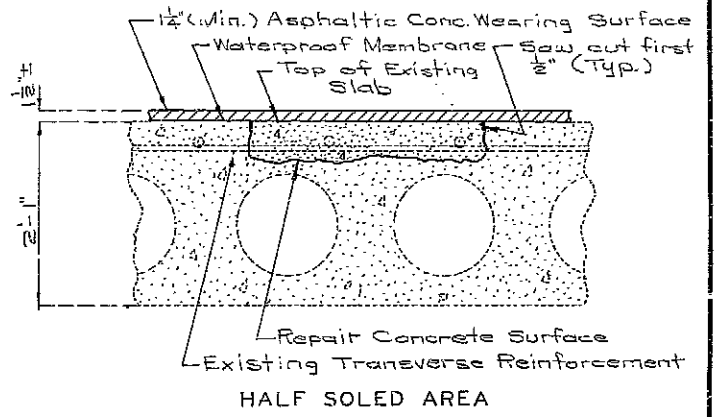


FIRST STAGE CONSTRUCTION

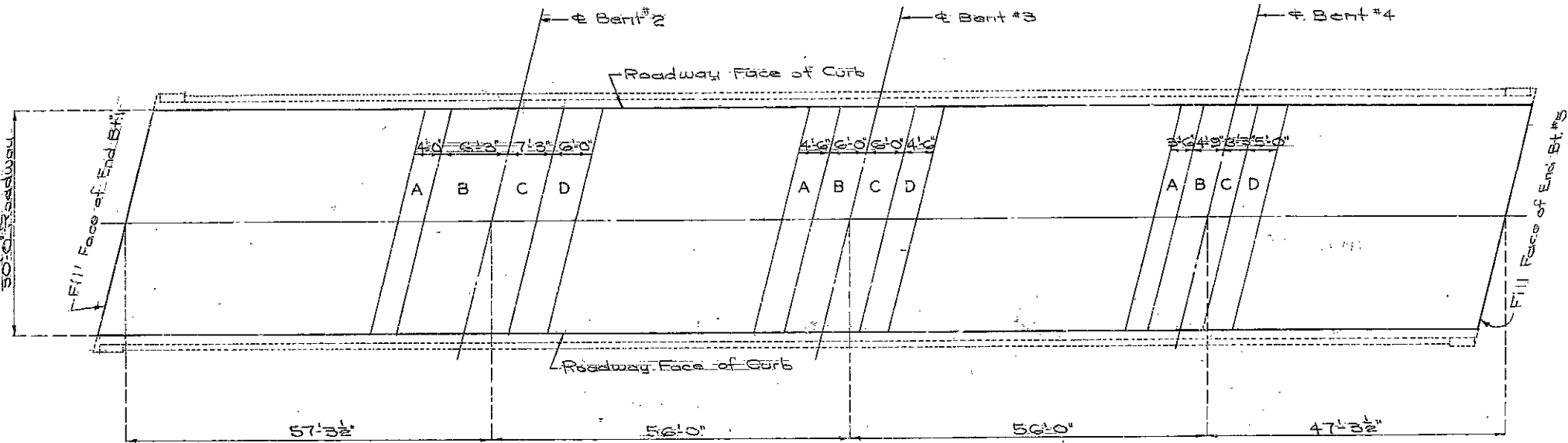


SECOND STAGE CONSTRUCTION

Note: Left lane shown, right lane is similar.



Note: Light dashed lines indicate old work. Heavy lines indicates new work.



PLAN

ESTIMATED QUANTITIES		
ITEM		TOTAL
Repairing Concrete Deck (Half Soled)	Sq. Ft.	394
Asphalt Cement (Asphaltic Concrete) 60-70 or AC20	Ton	5.1
Mineral Aggregate (Asphaltic Conc.) Type A Mix	Ton	95
Bridge Deck Waterproofing (Liquid)	Sq. Yd.	14.57
Curb Modification	Lin. Ft.	825

Note: Any concrete removal for half sole repair in areas designated A, B, C, or D shall be repaired in alphabetical order (See Special Provisions).
Care shall be taken during deck repair to maintain structural integrity of bridge.
All exposed edges of curb modification shall have 2" radius or 1/4" bevel unless otherwise noted.

Note: Payment for the Barrier Block complete in place including all materials, labor and incidentals necessary to complete this item shall be made and considered completely covered under the contract unit price bid for Curb Modification - Lin. Ft. Concrete for the Barrier Block shall be Class B1. Reinforcement for the Barrier Block shall be Grade 60.

REPAIRS TO
BRIDGE OVER BANNISTER ROAD
 STATE ROAD FROM GRANDVIEW TO KANSAS CITY
 ABOUT 5.0 MILES N. OF GRANDVIEW
 PROJECT NO. STA. 413+50.4 (C. MEDIAN)
 JOB NO. 4 U071 526 RTE. 71
 JACKSON COUNTY
 DATE 12/28/83

STD.
STD.
L-842R

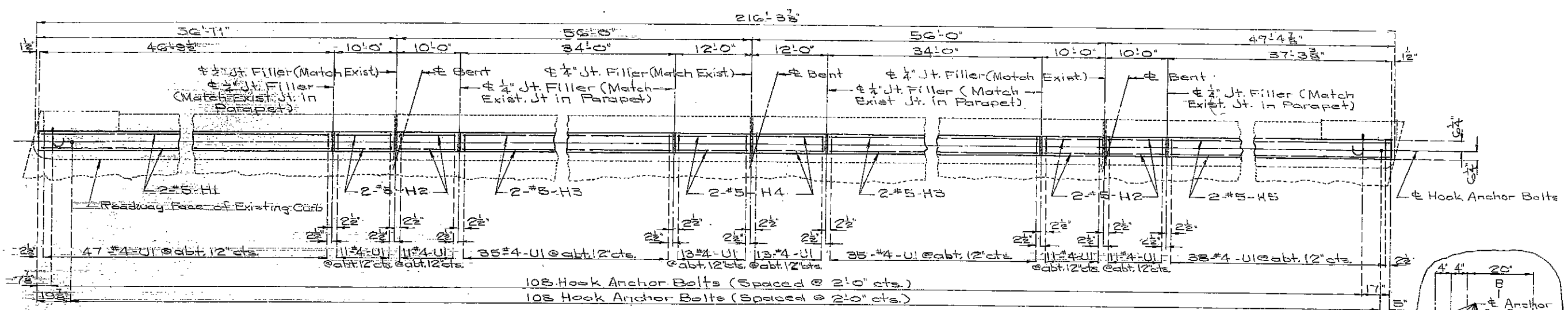
DESIGNED NOV. 1983
 DETAILED NOV. 1983
 CHECKED Dec. 1983

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

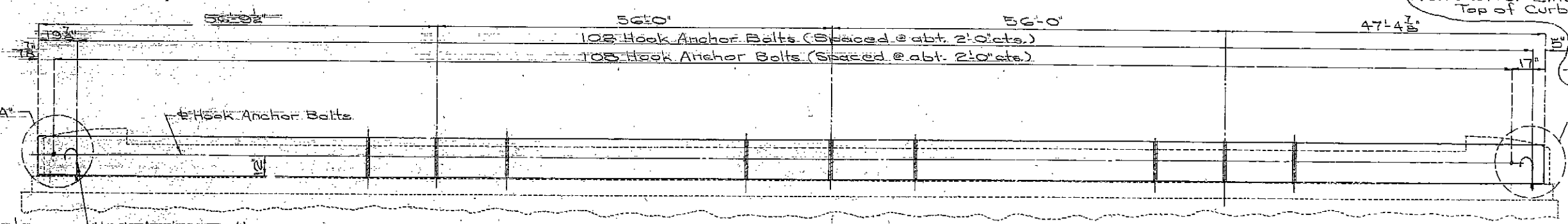
SEE PLAN

Sheet No. 1 of 2

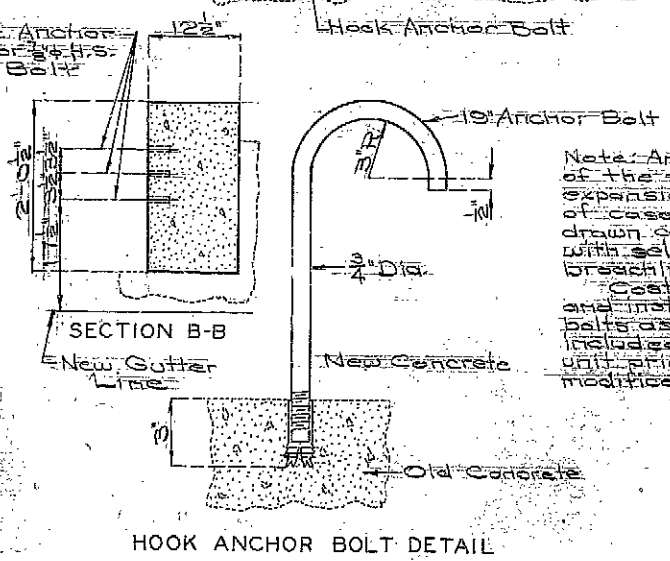
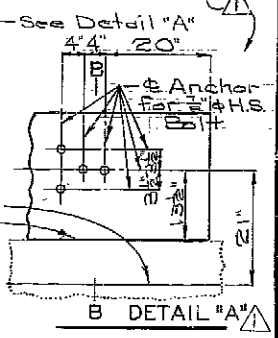
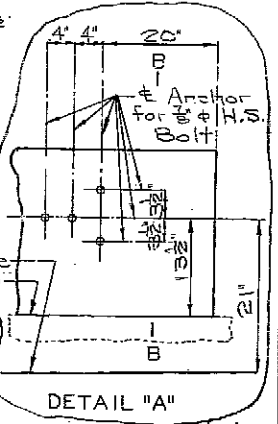
525



PART PLAN SHOWING CURB MODIFICATION
(Left Curb shown-Right Curb Similar)



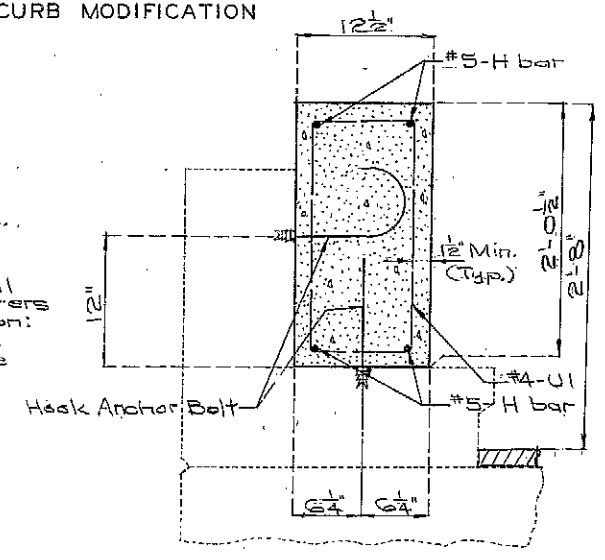
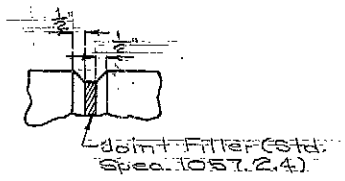
ELEVATION OF CURB MODIFICATION



Note: Anchors shall be of the self-drilling expansion type, made of case-hardened and drawn carbonized steel with self-cutting annular breaching grooves.
Cost of finishing and installing hook anchor bolts assemblies shall be included in contract unit price for curb modification.

Note: At the option of the contractor one of the following anchor systems may be substituted for the self-drilling expansion system noted on the plans:
1. Molly Patenband Capsule Anchors.
2. Hilti HVA Adhesive Anchors

These optional anchor systems shall be installed according to the manufacturers specifications with the following exception:
A straight 3/4\"/>



BAR BILL					
QUANTITY	SIZE	MARK	SHAPE	LENGTH	WEIGHT
16	5	H1	20	46'-6"	776
64	5	H2	20	9'-9"	651
32	5	H3	20	33'-8"	1126
32	5	H4	20	11'-9"	392
16	5	H5	20	37'-0"	617
300	4	U1	135	5'-6"	3307

S = STIRRUP

Revision 3-28-84

526
 DETAILED NOV. 1983
 CHECKED Dec 19 83

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

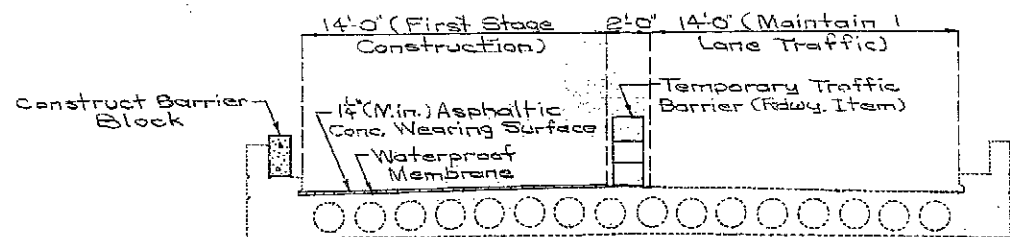
Sheet No. 2 of 2

JACKSON COUNTY L-842R

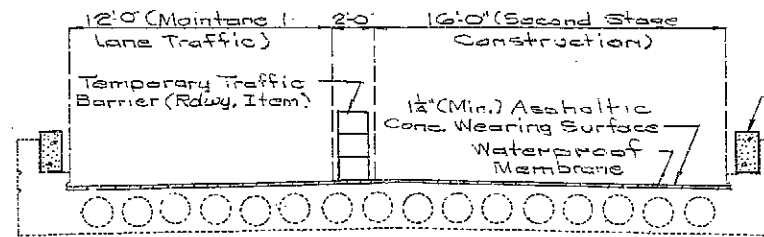
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MO.	PR-MS-71-4128	83	13	
SEC./SUR. 2G		TWP 48N R9E 33W			

FINAL PLANS

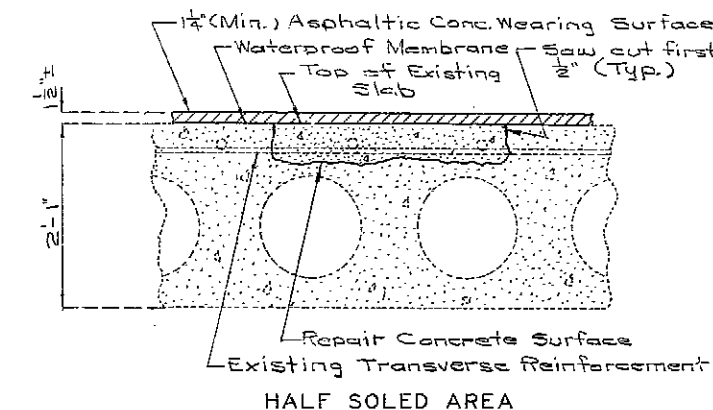


FIRST STAGE CONSTRUCTION



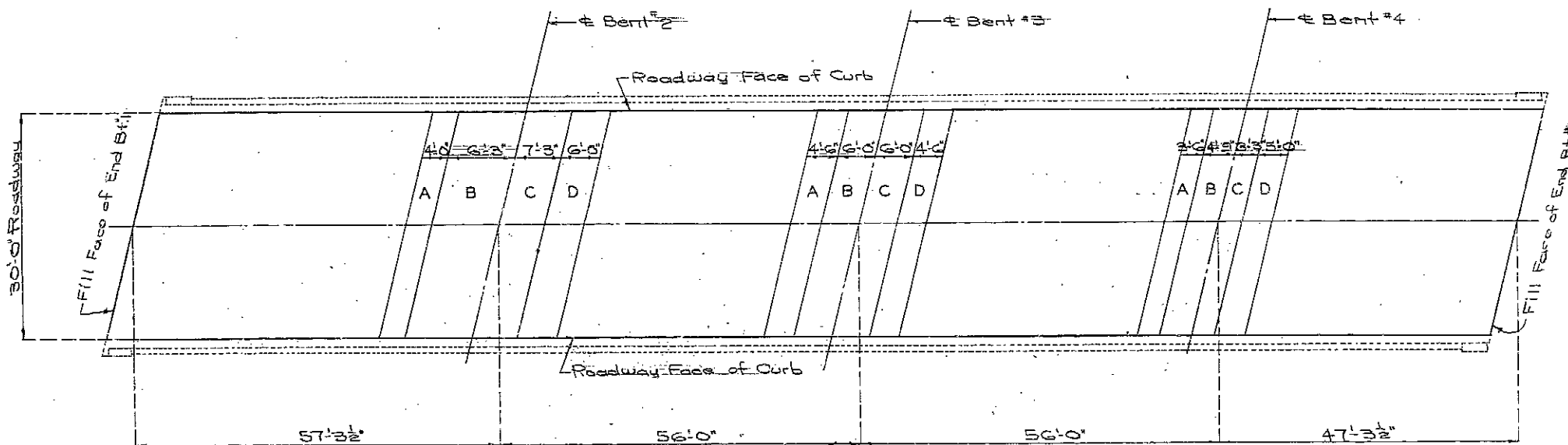
SECOND STAGE CONSTRUCTION

Note: Left lane shown, right lane is similar.



HALF SOLED AREA

Note: Light dashed lines indicate old work. Heavy lines indicates new work.



PLAN

FINAL QUANTITIES		
ITEM		TOTAL
Repairing Concrete Deck (Half Soling)	Sq. Ft.	19
Asphalt Cement (Asphaltic Concrete) 60-70 or AC20	Ton	66
Mineral Aggregate (Asphaltic Conc.) Type A Mix	Ton	131
Bridge Deck Waterproofing (Liquid)	Sq. Yd.	1457
Curb Modification	Lin. Ft.	865

Note: Any concrete removal for half-sole repair in areas designated A, B, C or D shall be repaired in alphabetical order (See Special Provisions).
Care shall be taken during deck repair to maintain structural integrity of bridge.
All exposed edges of curb modification shall have 1/2" radius or 1/8" bevel unless otherwise noted.

Note: Payment for the Barrier Block complete in place including all materials, labor and incidentals necessary to complete this item shall be made and considered completely covered under the contract unit price bid for Curb Modification - Lin. Ft. Concrete for the Barrier Block shall be Class B1. Reinforcement for the Barrier Block shall be Grade 60.

REPAIRS TO
BRIDGE OVER BANNISTER ROAD
STATE ROAD FROM GRANDVIEW TO KANSAS CITY
ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO. STA. 413+50.4 (C MEDIAN)
JOB NO. 4 U071 526 RTE. 71
JACKSON COUNTY

STD.
STD.
L-842R

DESIGNED NOV. 1983
DETAILED NOV. 1983
CHECKED Dec. 1983

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

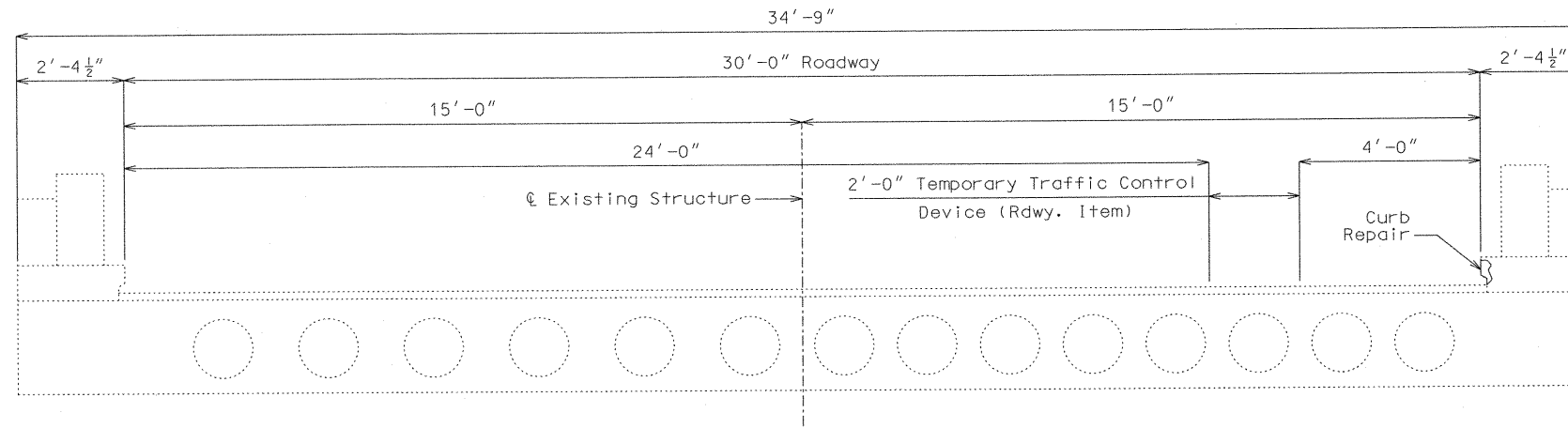
Sheet No. 1A of 2.

DATE 12/28/83

1225

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
 U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIDED SLAB SPANS

State	Proj. No.	Sheet No.
MO		B1
SEC/SUR 26	TWP 48N	RGE 33W



SECTION THRU EXISTING SLAB

Estimated Quantities		
Item		Total
Substructure Repair (Unformed)	sq. foot	5
Repairing Curb	linear foot	217

GENERAL NOTES:

Design Specifications:

2002 - AASHTO 17th Edition
 Bridge Deck Rating = 7

Design Unit Stresses:

Class B-1 Concrete $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

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.

Verify Dimensions:

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

Miscellaneous:

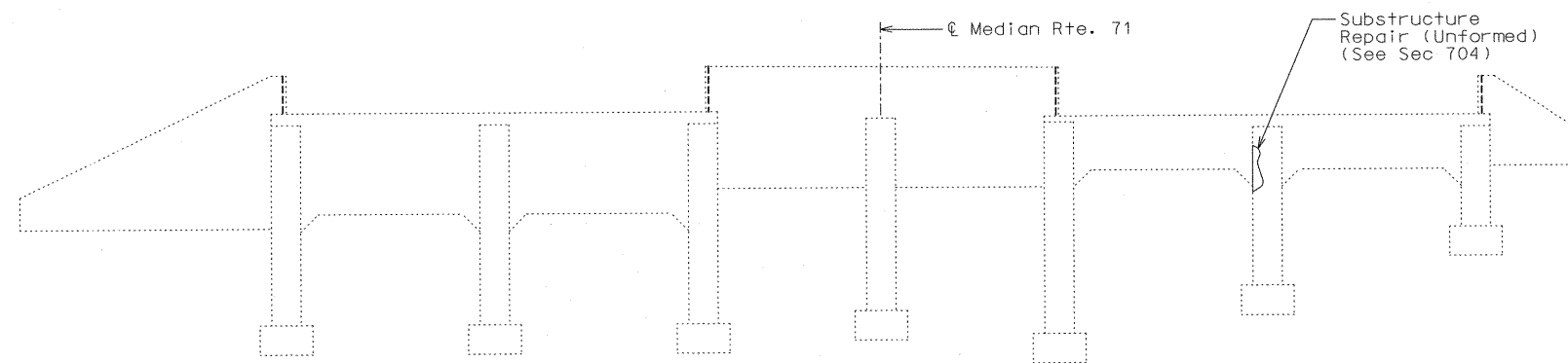
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Curb repair areas shall be patched with a qualified special mortar in accordance with Sec 704.

Traffic:

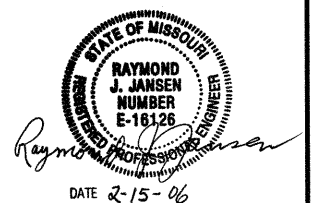
See roadway plans for traffic control during construction.



L08424

L08423

PART ELEVATION SHOWING SUBSTRUCTURE REPAIR (UNFORMED)



REPAIRS TO BRIDGE:
 RTE. 71 NBL OVER BANNISTER ROAD

STATE ROAD GRANDVIEW TO BLUE RIVER ROAD

ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO.

STA. 413+50.40± (± MEDIAN)

JOB NO. J4P1577

RTE. 71 NBL

JACKSON COUNTY

L08423

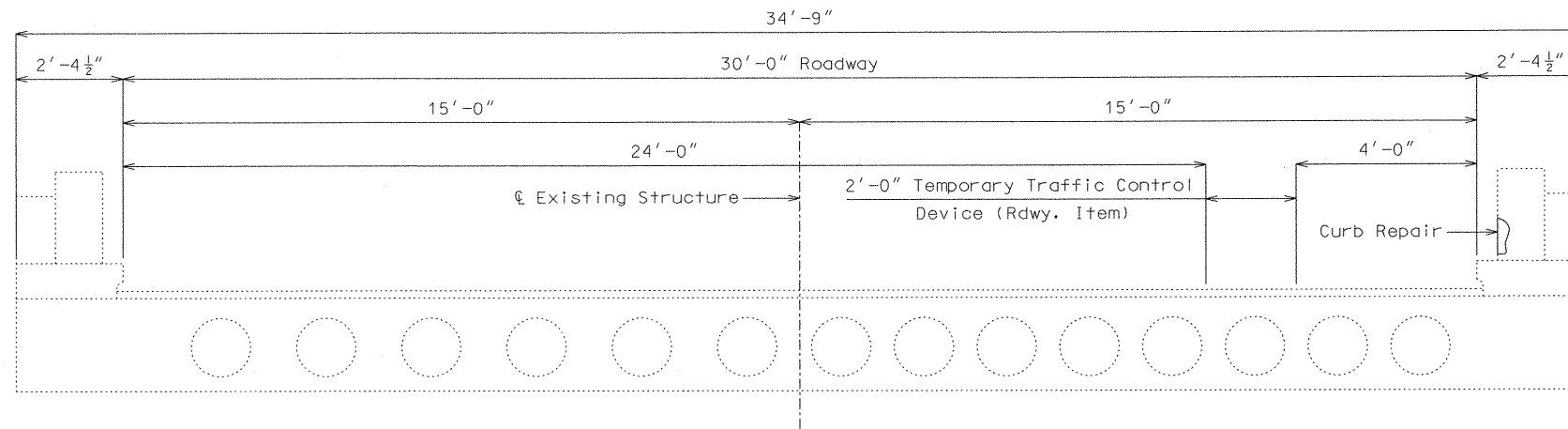
Detailed Jun. 2005
 Checked Dec. 2005

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

Sheet No. 1 of 1

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
 U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIDED SLAB SPANS

State	Proj. No.	Sheet No.
MO		82
SEC/SUR 26	TWP 48N	RGE 33W



SECTION THRU EXISTING SLAB

Estimated Quantities		
Item		Total
Substructure Repair (Unformed)	sq. foot	30
Repairing Curb	linear foot	217

GENERAL NOTES:

Design Specifications:

2002 - AASHTO 17th Edition
 Bridge Deck Rating = 6

Design Unit Stresses:

Class B-1 Concrete $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

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.

Verify Dimensions:

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

Miscellaneous:

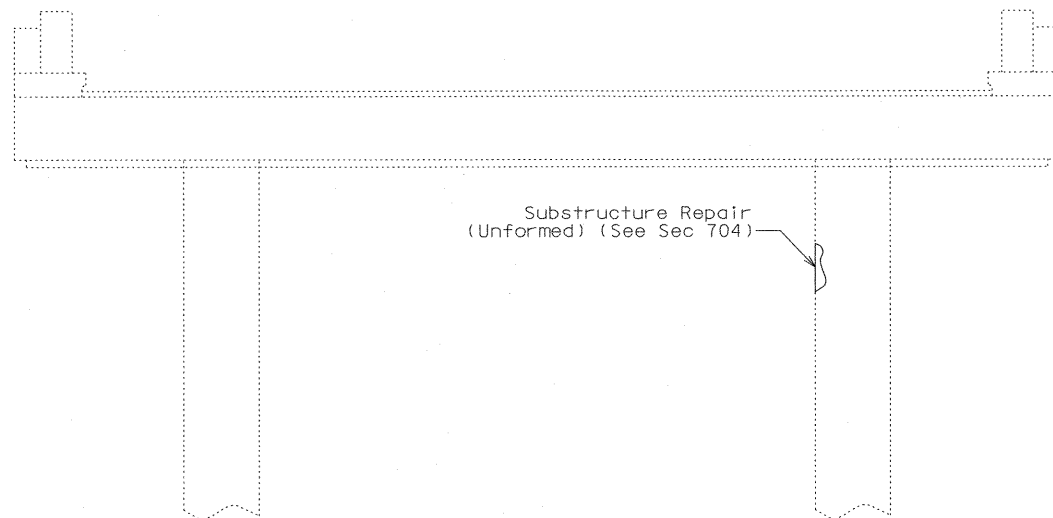
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

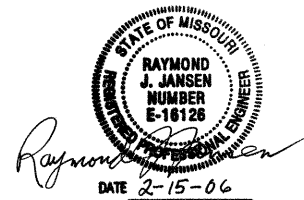
Curb repair areas shall be patched with a qualified special mortar in accordance with Sec 704.

Traffic:

See roadway plans for traffic control during construction.



PART ELEVATION SHOWING SUBSTRUCTURE REPAIR (UNFORMED)



REPAIRS TO BRIDGE:
 RTE 71 SBL OVER BANNISTER ROAD

STATE ROAD GRANDVIEW TO BLUE RIVER ROAD

ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO.

STA. 413+50.40± (± MEDIAN)

JOB NO. J4P1577

RTE. 71 SBL

JACKSON COUNTY

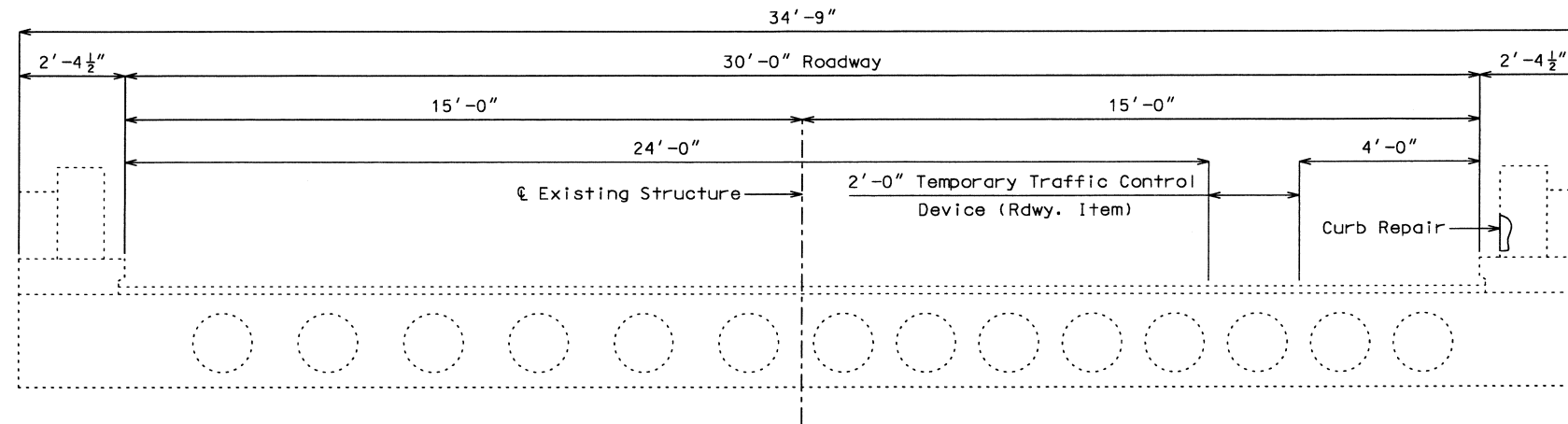
L08424

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
 U.I.P. EXISTING (56'-56'-56'-46') CONTINUOUS VOIDED SLAB SPANS

FINAL PLANS

State	Proj. No.	Sheet No.
MO	FAF 71-4 (98)	B2
SEC/SUR 26	TWP 48N	RGE 33W

Contract ID
 060929-401



SECTION THRU EXISTING SLAB

FINAL Quantities		
Item		Total
Substructure Repair (Unformed)	sq. foot	0
Repairing Curb	linear foot	217

GENERAL NOTES:

Design Specifications:

2002 - AASHTO 17th Edition
 Bridge Deck Rating = 6

Design Unit Stresses:

Class B-1 Concrete $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

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.

Verify Dimensions:

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

Miscellaneous:

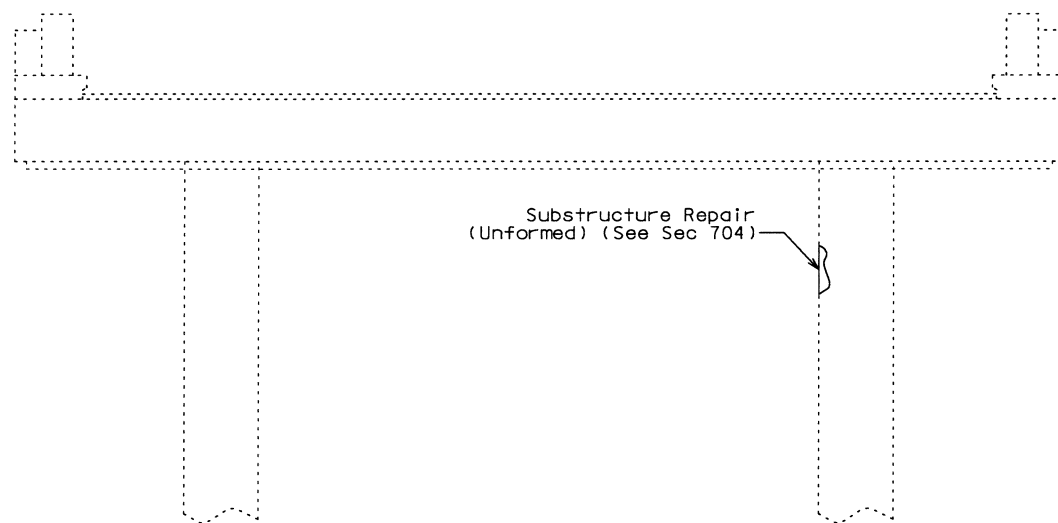
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Curb repair areas shall be patched with a qualified special mortar in accordance with Sec 704.

Traffic:

See roadway plans for traffic control during construction.



PART ELEVATION SHOWING SUBSTRUCTURE REPAIR (UNFORMED)

REPAIRS TO BRIDGE:
 RTE 71 SBL OVER BANNISTER ROAD

STATE ROAD GRANDVIEW TO BLUE RIVER ROAD

ABOUT 5.0 MILES N. OF GRANDVIEW

PROJECT NO. STA. 413+50.40± (€ MEDIAN)

JOB NO. J4P1577 RTE. 71 SBL