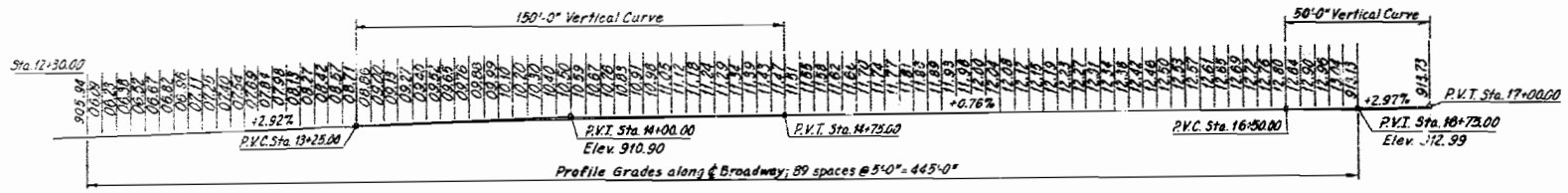
MISSOURI STATE HIGHWAY DEPARTMENT

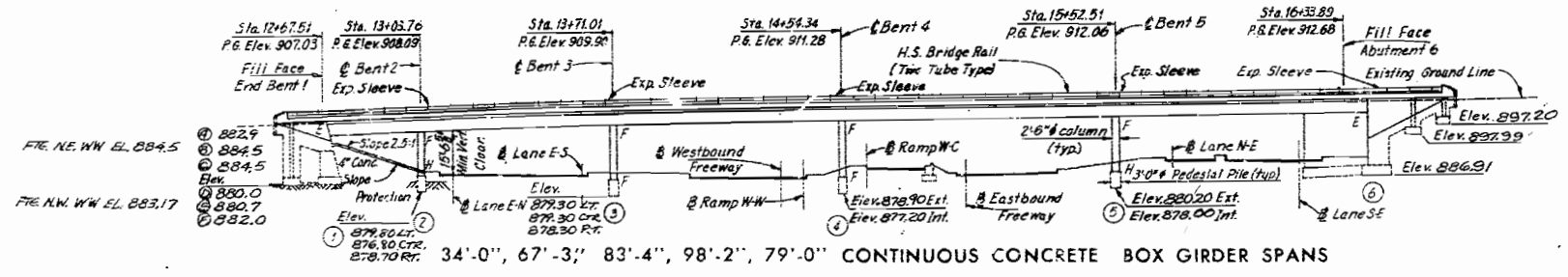
FINAL PLANS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO	I-35-1(34)			
DIST. NO.	COUNTY			RECORD SEC.	
4	JACKSON			I-35	



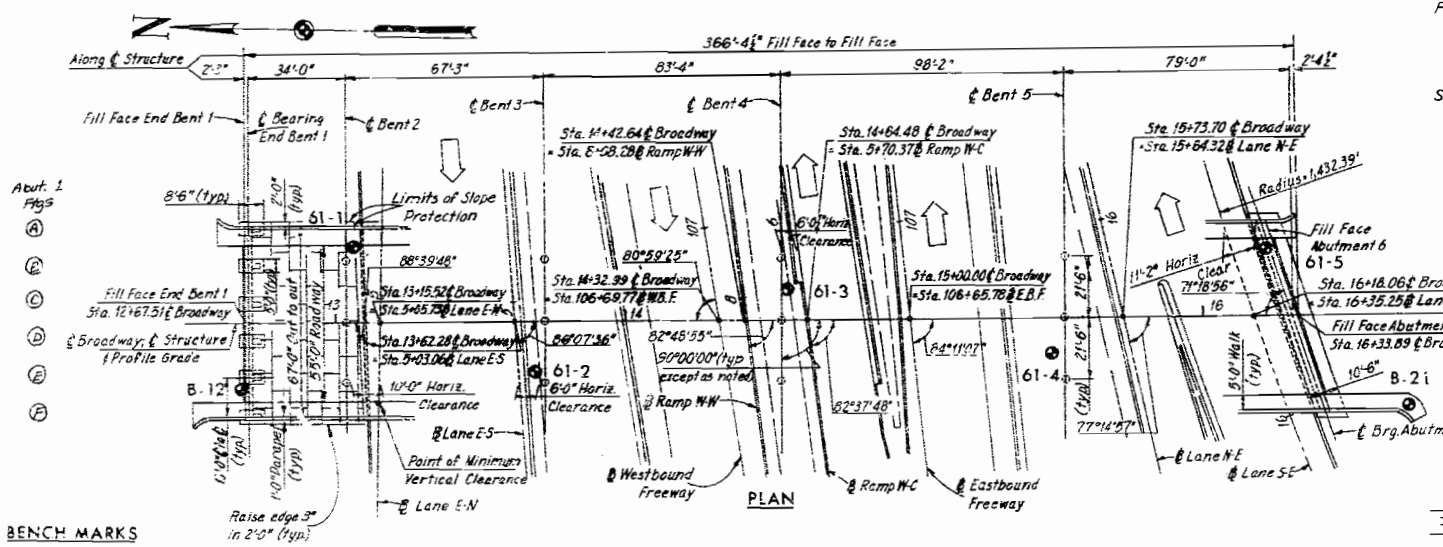
PROFILE GRADE

Legend:
F = Fixed
H = Hinged
E = Expansion



Note: Concrete Slope Protection on front slope of End Bent 1 is included under roadway items by others. For details, see Sheet 17.

ELEVATION

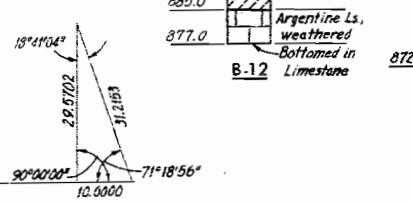


PLAN

Note: All dimensions shown are horizontal.

CURVE DATA

℄ LANE S-E
P.I. Sta. 16+86.03
Δ = 10°13'57"
D = 4°00'00"
R = 1,432.39'
T = 128.41'
L = 255.81'
S.E. Varies



GENERAL NOTES

Design Specifications: AASHO 1961 with tentative revisions thereof.

Design Loading: H-20-44 with 15#/sq. ft. future wearing surface. Earth 120#/cu. ft. Equivalent fluid pressure 30#/sq. ft.

Construction Specifications: Missouri Standard Specifications for State Roads, Materials, Bridges, Culverts and Incidental Structures - 1961.

Reinforcing Steel: Allowable stress 20,000 psi. All splices in reinforcing steel 24 bar diameters. Bar sizes are designated on plans by numbers. The first digit after the letter in three digit marks, and the first two digits after the letter in four digit marks indicate the size of the bar. (see Sheet 9). All dimensions to reinforcing steel on detail drawings are to ℄ of bar, except where the clear dimension is noted from the face of concrete. Hooks and bends in accordance with the ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI-315-57).

Concrete: Concrete Stresses: Class B1 fc = 1,600 psi
Class B fc = 1,200 psi
Concrete for Superstructure Class B1.
Concrete for Substructure Class B.

Sealing of Deck: Superstructure deck surfaced sealed. See Special Provisions.

Utilities: All utilities, unless shown otherwise, removed or relocated by others. The Contractor notify the owner of the utilities of his work schedule sufficiently in advance to allow time for the disposition of the utilities.

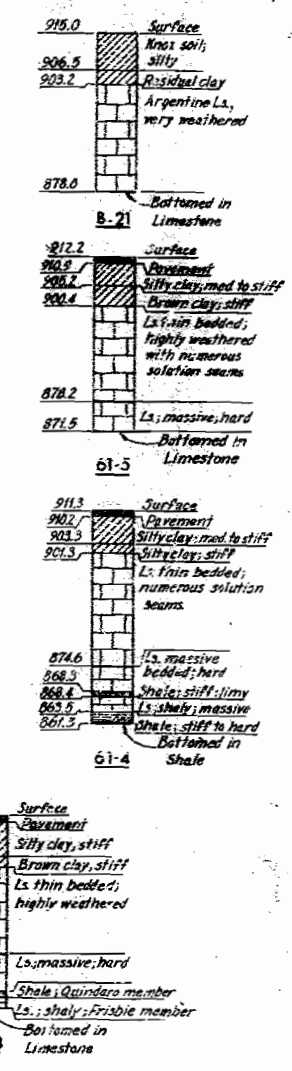
Joint Filler: Where joint filler is specified on the plans, it conform with the requirements for grey sponge rubber compound joints as given in Section 157.2.4 of the Standard Specifications.

Painting: Structural Steel: Access doors, expansion joints and expansion rollers cleaned and painted in the field or cleaned and painted one coat of red lead in the shop with the two remaining coats applied in the field; all in accordance with Standard Specification 55.4.10 except that the final coat on access doors gray. In lieu of painting, the Contractor may, if he prefers, galvanize any or all of these items in accordance with Standard Specifications 55.2.8 and 55.4.11. All galvanizing done after fabrication.

Welding: See Standard Specification 55.3.13 for qualifications of welding operators.

Plastic Waterstop: Plastic waterstop in accordance with Section 157.2.1 of Standard Specifications.

Metal Conduits: Expansion fittings required in rigid steel conduits at positions shown. For type and size see Sheet 21.



BORING LOG

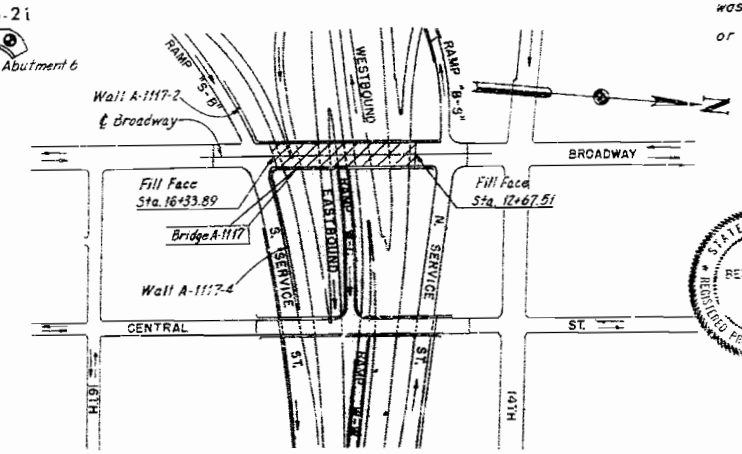
Excavation to Rock: The maximum bearing value of 20 tons per sq. ft. was used in the design of pedestal piles in rock. Pedestal pile carried approximately 2 feet into firm undisturbed shale or rock. See Special Provisions.

BENCH MARKS

B.M. #6 ⊐ on northwest wingwall @ Abutment #1 of Bridge #A-1117
Elev. 907.04

● Indicates Boring Location.

FOOTING DATA							
	BENT	1	2	3	4	5	6
SPREAD FOOTING	Founding Material	Rock					Rock
	Design Bearing tons sq. ft.	10					10
		Section 50.4.2					
PEDESTAL PILES	Founding Material		Rock	Rock	Rock	Rock	
	Design Bearing tons sq. ft.		20	20	20	20	



STATE OF MISSOURI — R. N. BERGENDOFF — NUMBER E-253 — REGISTERED PROFESSIONAL ENGINEER

SUBMITTED BY:
R. N. Bergendoff
REGISTERED PROFESSIONAL ENGINEER
MISSOURI NO. E-253

BRIDGE: BROADWAY AVE. UNDERPASS
CROSSTOWN FREEWAY
KANSAS CITY, MO.
PROJECT NO. I-35-1(34) (RT I-35) STA 106+65.78 ℄ E.B. FRWY.

JACKSON COUNTY

SUBMITTED BY D. Spencer DATE 6/21/65
BRIDGE ENGINEER
APPROVED W. Hardin DATE 6/21/65
CHIEF ENGINEER

STD 54.00
A-1117

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE REB DATE 2-9-65 CHECKED EH-H DATE 4-5-65

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

SHEET 14 OF 7

GENERAL PLAN AND ELEVATION

FINAL PLANS

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