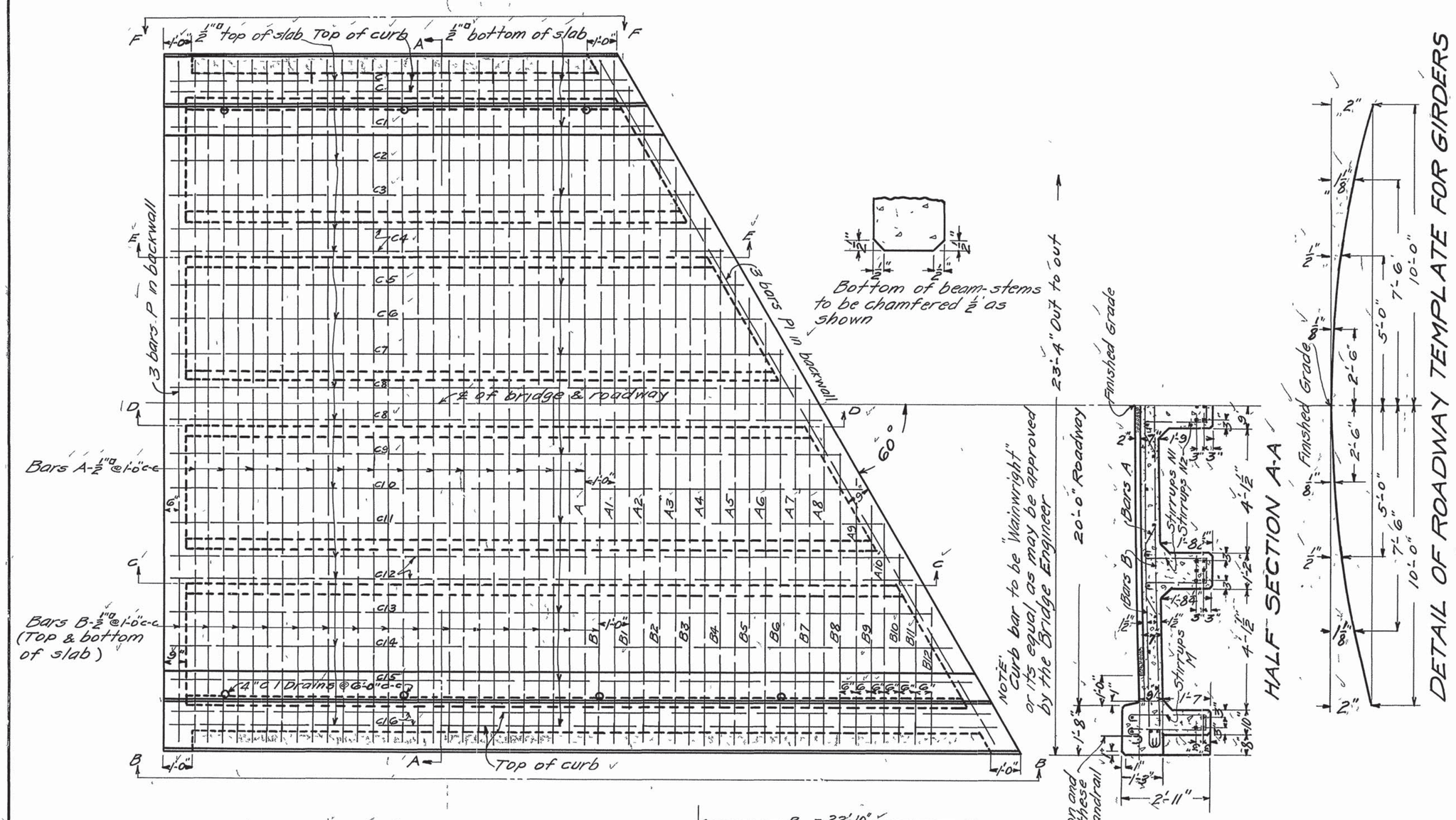
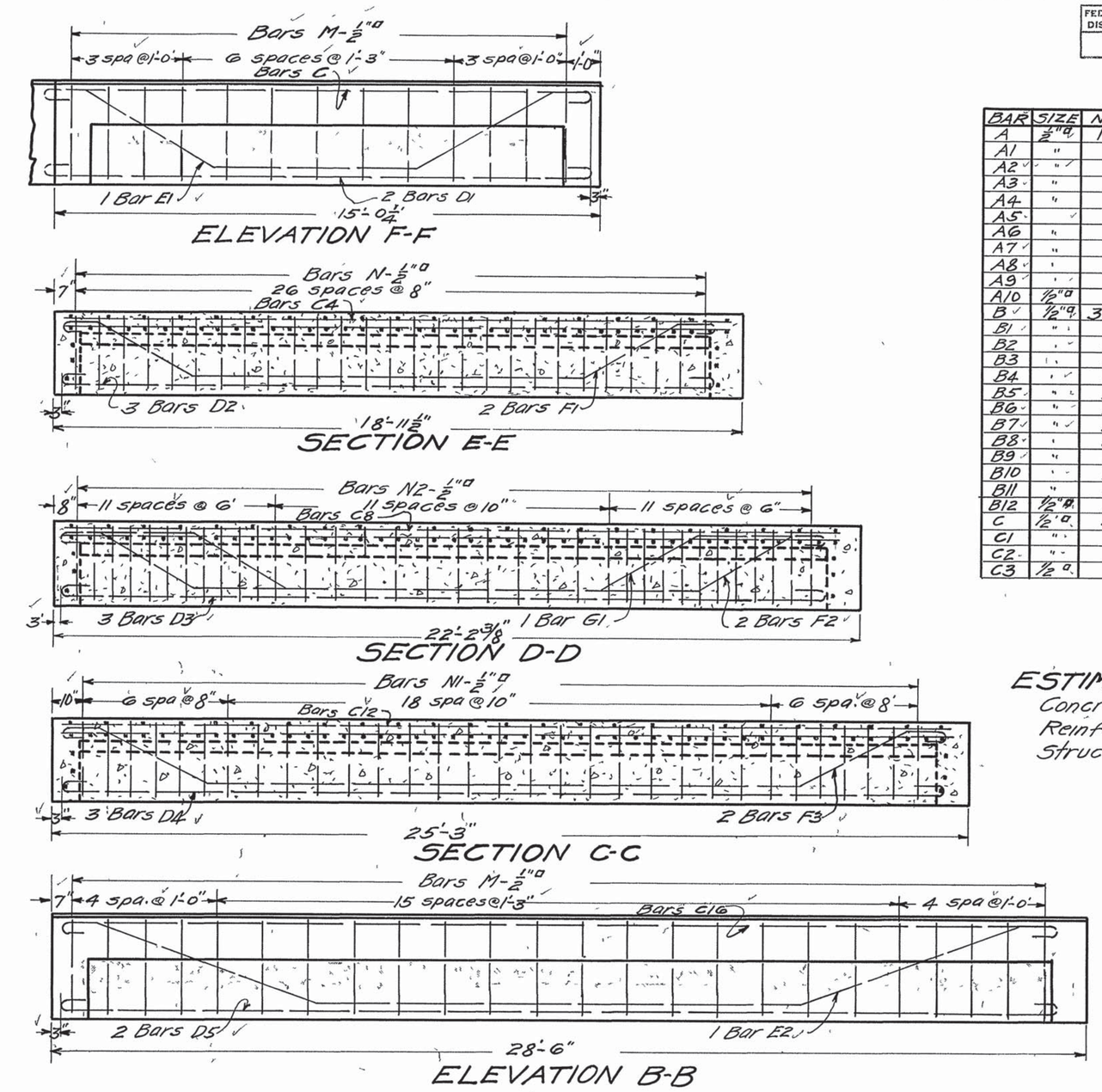
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TO. SHEETS
8	TENN.	36B	19		





BILL OF STEEL

BAR	SIZE	NO	LENGTH	BAR	SIZE	NO	LENGTH
A	1/2"⌀	14	24'-6"	C4	1/2"⌀	2	17'-11"
A1	"	1	24'-4"	C5	"	1	19'-0"
A2	"	1	22'-6"	C6	"	1	19'-7"
A3	"	1	20'-9"	C7	"	1	20'-3"
A4	"	1	18'-10"	C8	"	2	21'-0"
A5	"	1	17'-1"	C9	"	1	22'-3"
A6	"	1	15'-4"	C10	"	1	22'-11"
A7	"	1	13'-6"	C11	"	1	23'-7"
A8	"	1	11'-8"	C12	"	2	24'-3"
A9	"	1	10'-0"	C13	"	1	25'-3"
A10	1/2"⌀	1	8'-1"	C14	"	1	26'-0"
B	1/2"⌀	30	23'-8"	C15	"	1	26'-7"
B1	"	2	22'-7"	C16	1/2"⌀	4	27'-3"
B2	"	2	20'-11"	D1	1"⌀	2	16'-8"
B3	"	2	19'-2"	D2	1"⌀	3	19'-7"
B4	"	2	17'-5"	D3	1 1/8"⌀	3	22'-10"
B5	"	2	15'-8"	D4	1 1/8"⌀	3	26'-1"
B6	"	2	14'-0"	D5	1 1/8"⌀	2	29'-3"
B7	"	2	12'-3"	E1	1"⌀	1	17'-10"
B8	"	2	10'-6"	E2	1 1/8"⌀	1	30'-5"
B9	"	2	8'-9"	F1	1"⌀	2	20'-5"
B10	"	2	7'-0"	F2	1 1/8"⌀	2	29'-8"
B11	"	2	6'-2"	F3	1 1/8"⌀	2	26'-11"
B12	1/2"⌀	2	5'-4"	G1	1 1/8"⌀	2	23'-8"
C	1/2"⌀	4	15'-0"	M	3/4"⌀	37	6'-6"
C1	"	1	16'-0"	N1	3/4"⌀	58	5'-7"
C2	"	1	16'-7"	N2	3/4"⌀	34	6'-1"
C3	1/2"⌀	1	17'-3"	P	3/4"⌀	3	23'-0"
				P1	3/4"⌀	3	26'-6"

ESTIMATED QUANTITIES

Concrete 1:2:4	22.62 Cu.yds
Reinforcing steel	4708 Lbs.
Structural steel	338 Lbs.

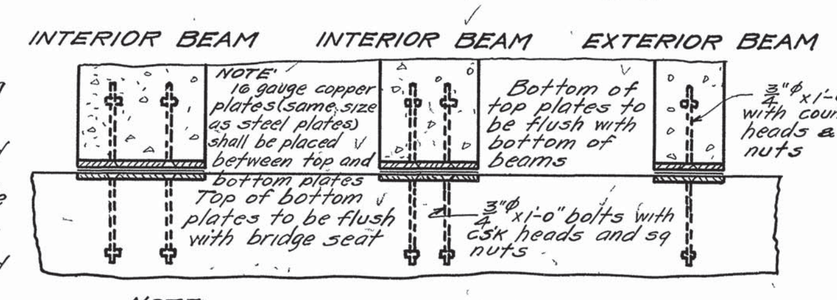
SPECIAL NOTE:- The cost of drains, curb bars and bituminous felt joints shall be included in price per cu.yd of 1:2:4 concrete. Cost of copper plates shall be included in cost per pound of structural steel

NOTE: The top of of the driveway slab shall always be struck to a template, and when the wearing surface is concrete, such surface shall be poured of a 1:2:4 mixture integral with the supporting slab and to the thickness indicated. In addition to being struck to a template, this surface shall be finished with a long handle float so that it will be free from open or rough places, depressions or projections.

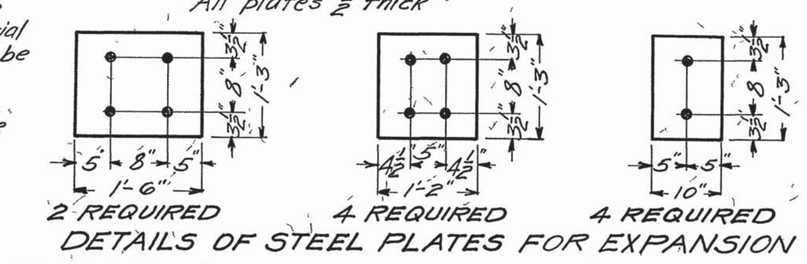
Line and grade of top of curb shall be checked immediately after the pouring of the curb has been completed, and any irregularities adjusted at once.

Before the concrete has received its permanent set, the top of the curb shall be struck to a true plane, and all excess material removed. The curb adjacent to bevels shall be carefully troweled so as to secure true lines and sharp edges.

When pouring curb, provision shall be made for handrail.



NOTE: Countersunk holes for 3/4" bolts in top and bottom plates. All plates 3/4" thick



DETAILS OF STEEL PLATES FOR EXPANSION END

SPECIAL NOTE: 16 gauge copper plates (same size as steel plates) to be used between top & bottom plates 5 required each expansion end

General Notes

Specifications Standard Bridge Specifications of the Tennessee Department of Highways

Concrete shall be 1:2:4 mixture; coarse aggregate 1/4" to 1 1/4".

Curbs, slabs and beam-stems must be poured at same time, allowing no time for initial set to take place between them.

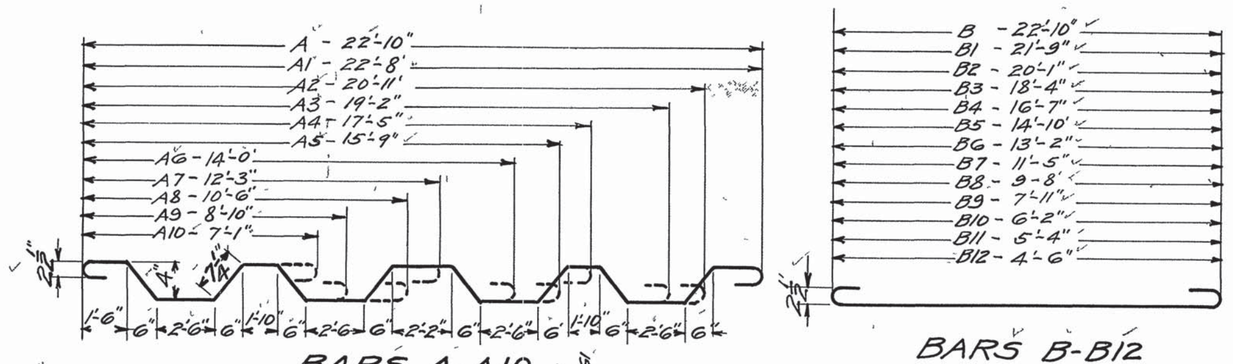
Reinforcing steel shall be deformed bars of structural steel or intermediate grade made by the O H process.

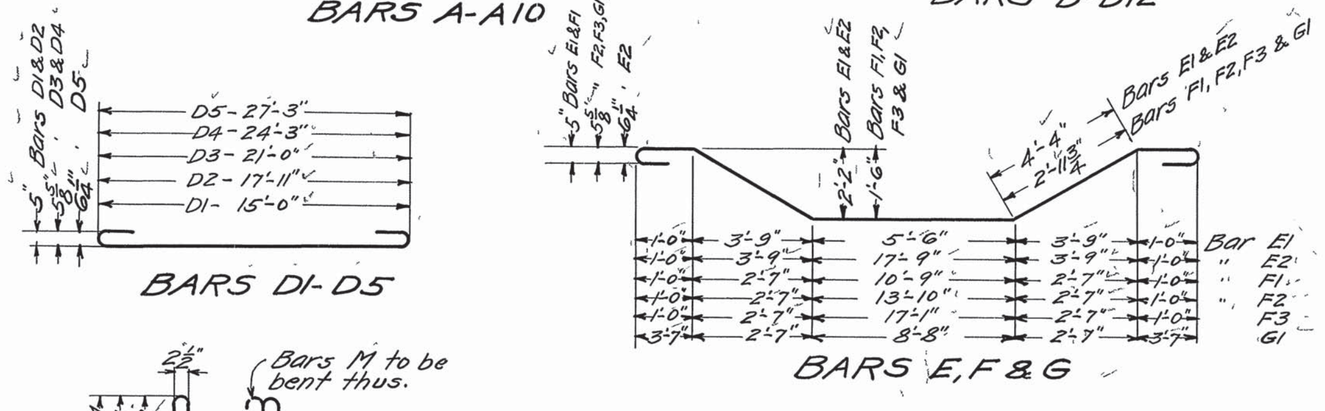
All dimensions relating to reinforcement are to centers of bars.

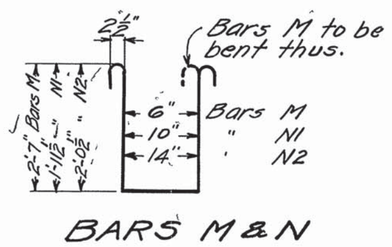
Where splicing of reinforcement is necessary, all bars are to be lapped 40 diameters.

Forms: See Specifications

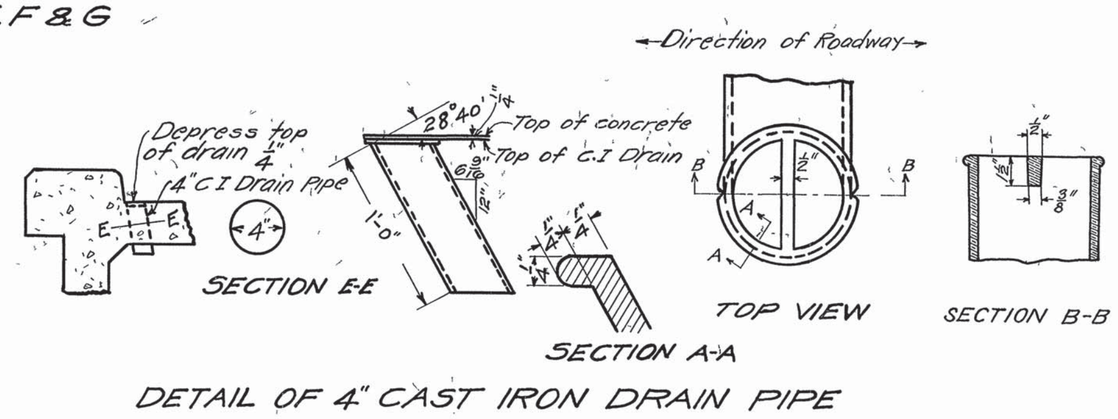
Finish: See Specifications







BENDING DIAGRAMS



DETAIL OF 4" CAST IRON DRAIN PIPE

NOTE: In finishing the concrete wearing surface the float shall be operated from bridges resting on the outside curb forms. The surface shall not vary more than 1/4" in 10 ft when tested with a 10 ft straight edge applied longitudinally and lapped one-half its length as testing proceeds. The testing shall be done after the water has disappeared from the surface and before initial set takes place.

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DETAILS

DECK GIRDERS FOR SPANS 6 & 12

FOR

BRIDGE AT STA 1193+87.9
SHELBY CO
1925

CORRECT L. N. Reinckens — BRIDGE ENGINEER
APPROVED C. N. Allen — ASSISTANT STATE HIGHWAY ENGINEER

DESIGNED BY	J. Grace	DATE	10-7-25
DRAWN BY	J. Grace	DATE	10-7-25
TRACED BY	E. Hamner	DATE	10-23-25
CHECKED BY	A. R. Gossup	DATE	10-8-25

D-5-46

MICROFILMED