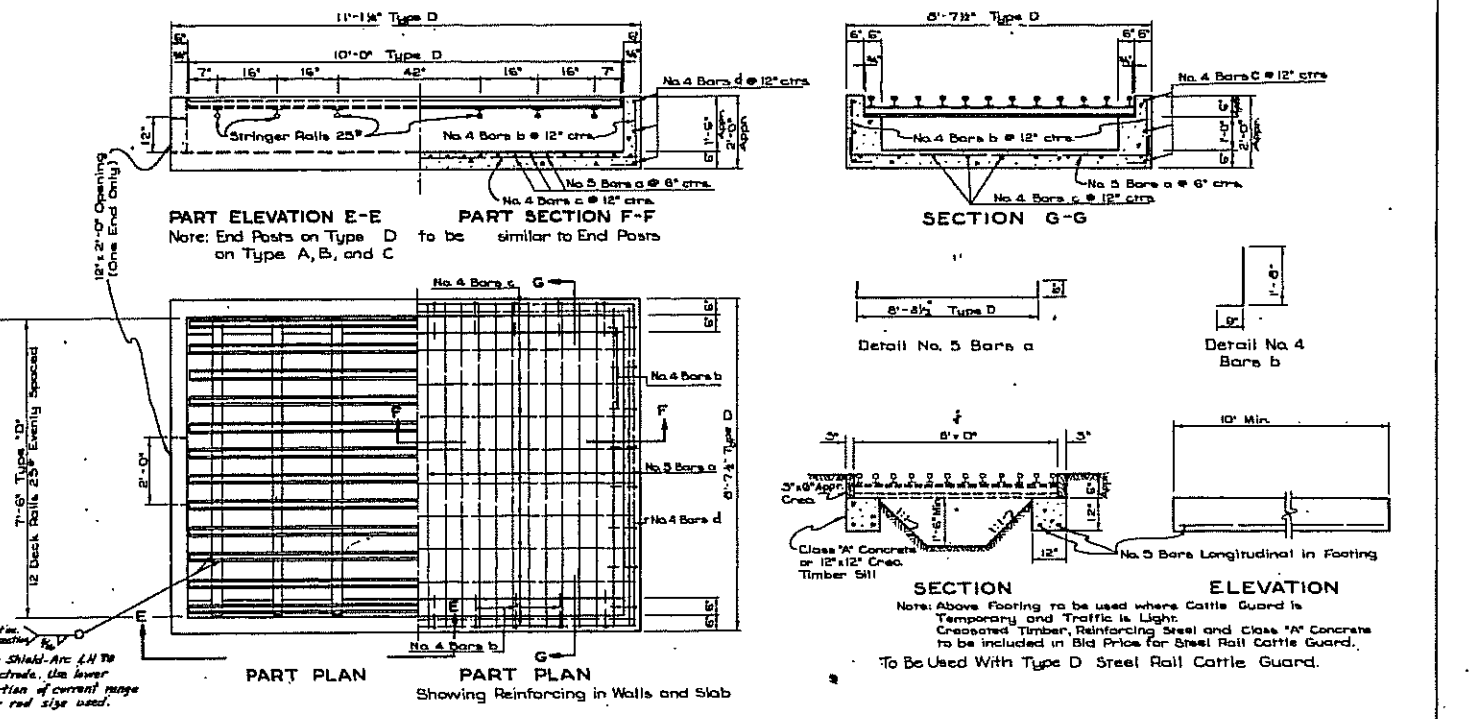
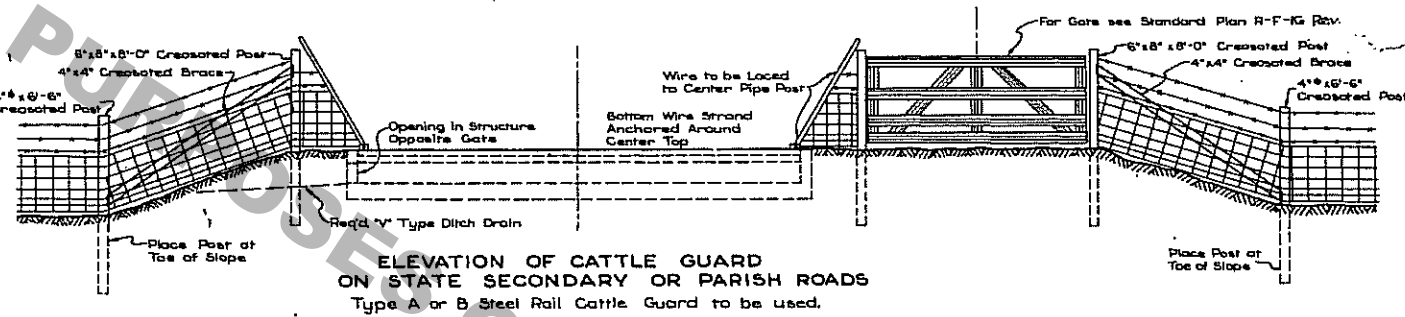
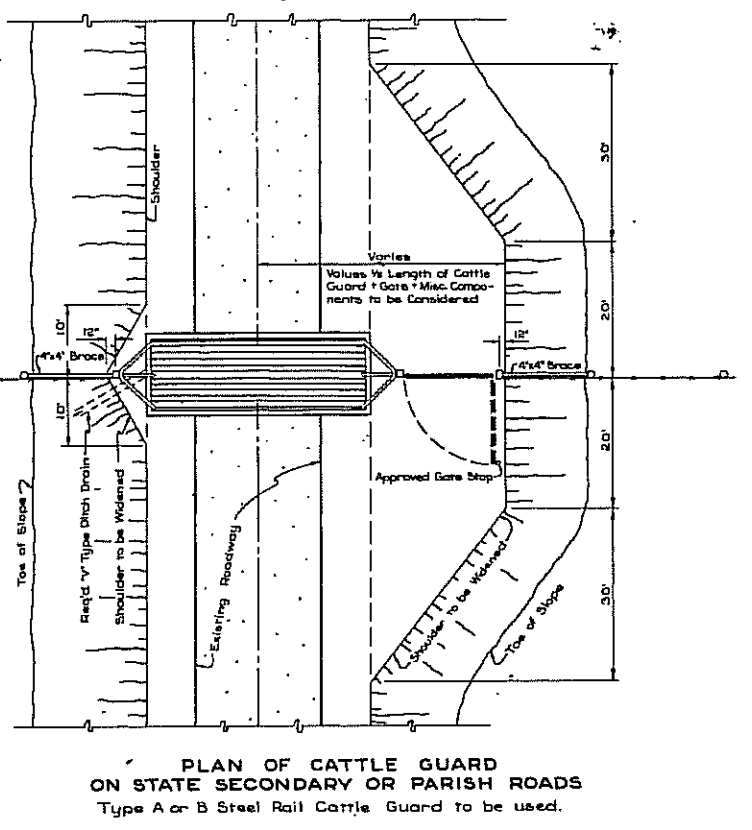
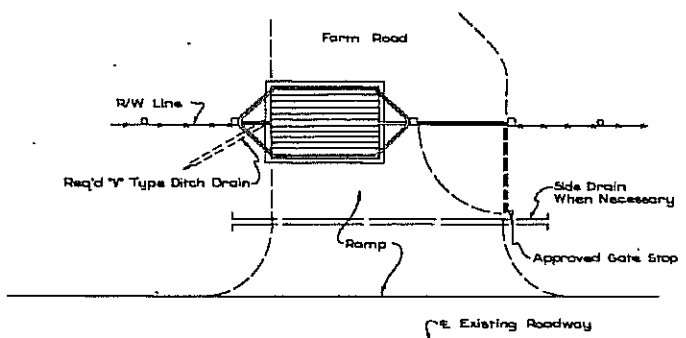
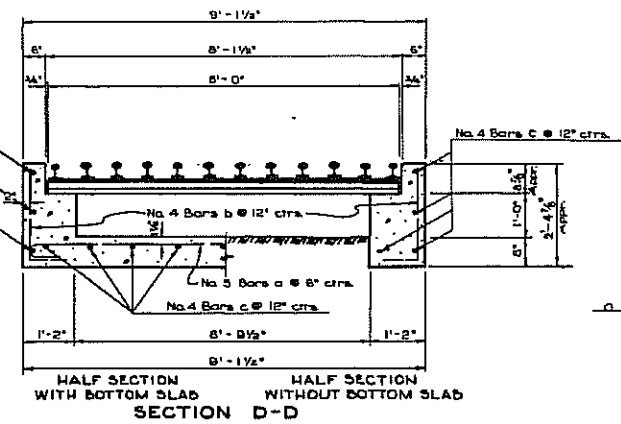
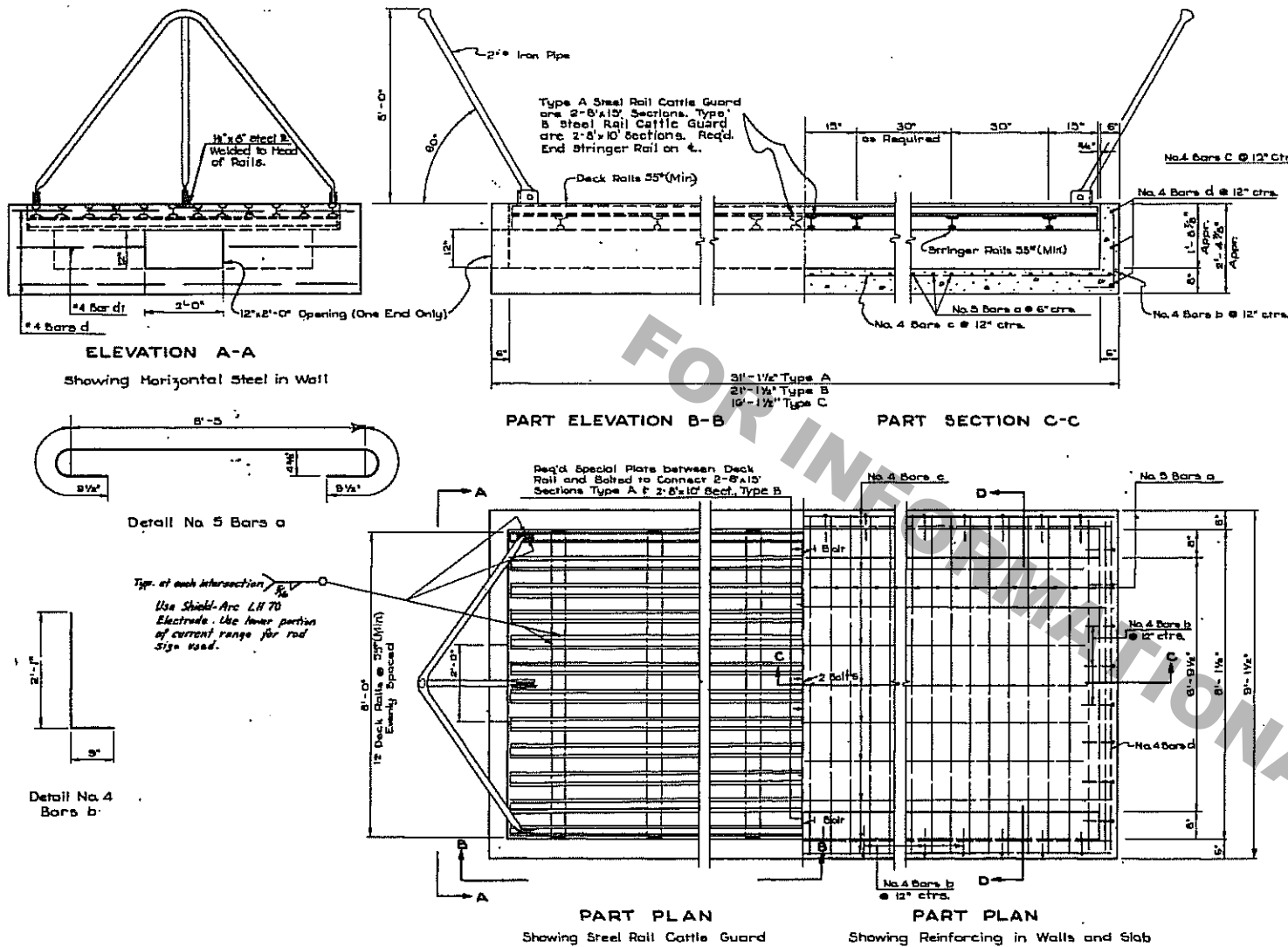
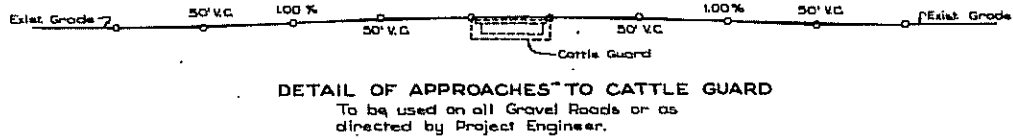




STEEL RAIL CATTLE GUARD	CONCRETE STRUCTURE	BILL OF MATERIAL										DEFORMED REINFORC. STEEL	FABRICATED CARBON STEEL	CLASS A CONCRETE	
		NO. 5 BARS a		NO. 4 BARS b		NO. 4 BARS c		NO. 4 BARS d		NO. 4 BARS d1					
		NO.	FT. IN.	NO.	FT. IN.	NO.	FT. IN.	NO.	FT. IN.	NO.	FT. IN.				
A	8' x 30'	9'-1 1/2" x 31'-1 1/2"	62	10 - 0	74	2 - 10	15	30 - 10	5	8 - 10	2	3 - 3	1150	* 10069	10.99
B	8' x 20'	9'-1 1/2" x 21'-1 1/2"	42	10 - 0	54	2 - 10	15	20 - 10	5	8 - 10	2	3 - 3	785	* 6827	7.60
C	8' x 15'	9'-1 1/2" x 16'-1 1/2"	32	10 - 0	44	2 - 10	15	15 - 10	5	8 - 10	2	3 - 3	610	* 4804	5.91
D	7'-6" x 10'	8'-7 1/2" x 11'-1 1/2"	22	9 - 3 1/2	34	2 - 5	15	10 - 10	5	8 - 4	2	3 - 0	408	1675	5.16

Note: Proj. Engineer to check size of Rails and Dimensions before permitting Materials to be ordered. Quantities shown above are for Cattle Guards with Bottom Slab. Cattle Guard to be paid for as a Unit, Complete in Place. Quantities shown for Fab. Carbon Steel do not include Rs, Fastenings, Bolts, Welds, etc.

APPROVED: *[Signature]* DATE 3-24-77
CHIEF ENGINEER



REVISIONS		DATE		DESCRIPTION		BY	
1/19/64	Stringer Rail Weight	11/19/64	Stringer Rail Weight	11/19/64	Stringer Rail Weight	11/19/64	Stringer Rail Weight
1/19/64	Gate Std. Rail	11/19/64	Gate Std. Rail	11/19/64	Gate Std. Rail	11/19/64	Gate Std. Rail

STANDARD PLAN / PORTABLE STEEL RAIL / CATTLE GUARD
8' SPAN; 15', 20' AND 30' LENGTHS
7'-6" SPAN; 10' LENGTH
DATED JULY 19, 1961 55 (Min) DECK RAILS

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED: [] CHECKED: [] IN CHARGE OF: []
DETAILED: []
TRACED: []