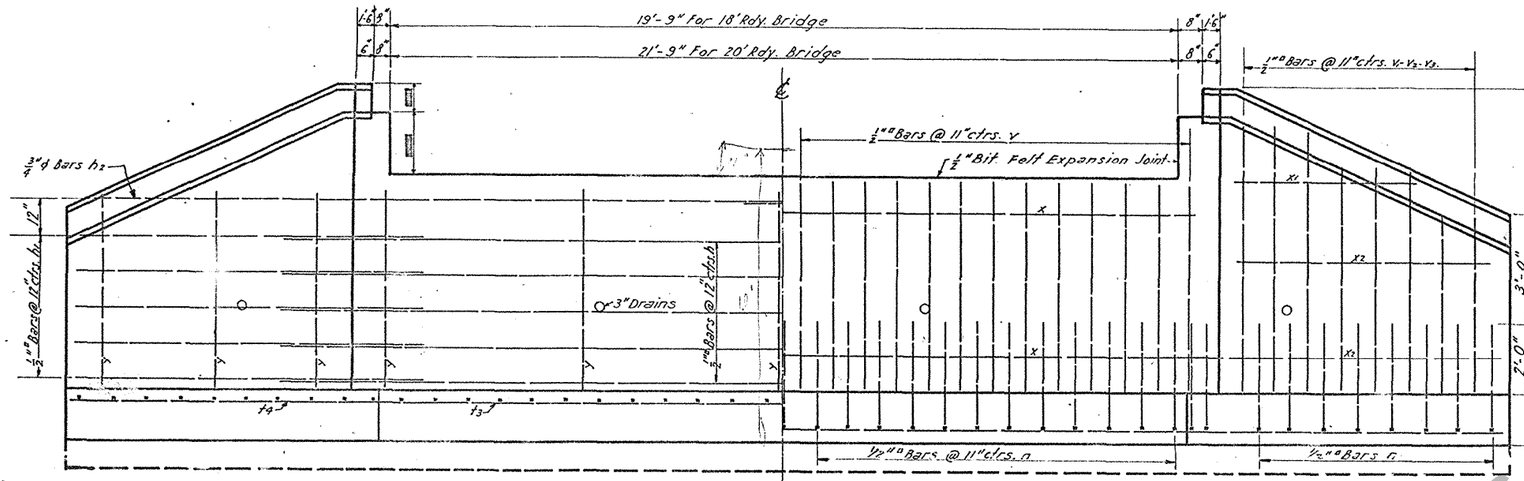
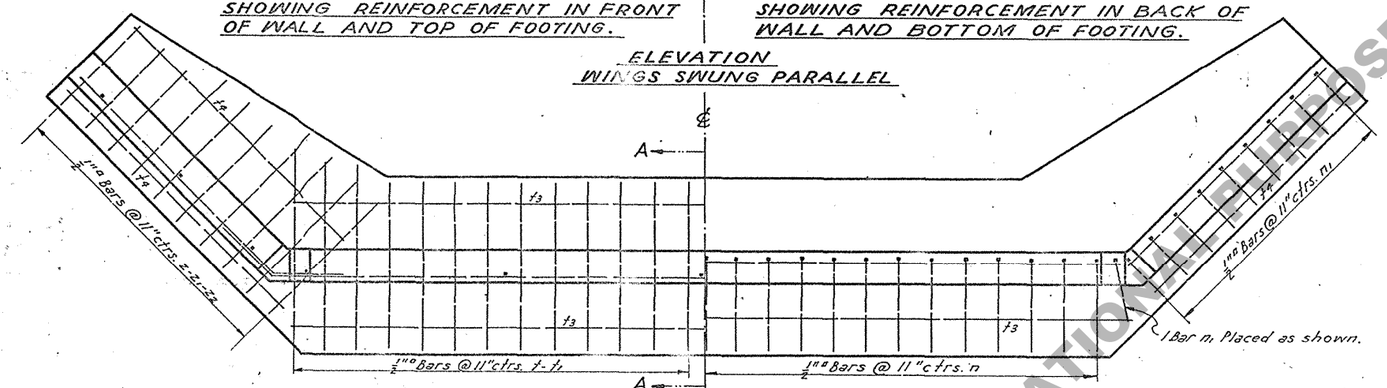


SHOWING REINFORCEMENT IN FRONT OF WALL AND TOP OF FOOTING.

SHOWING REINFORCEMENT IN BACK OF WALL AND BOTTOM OF FOOTING.

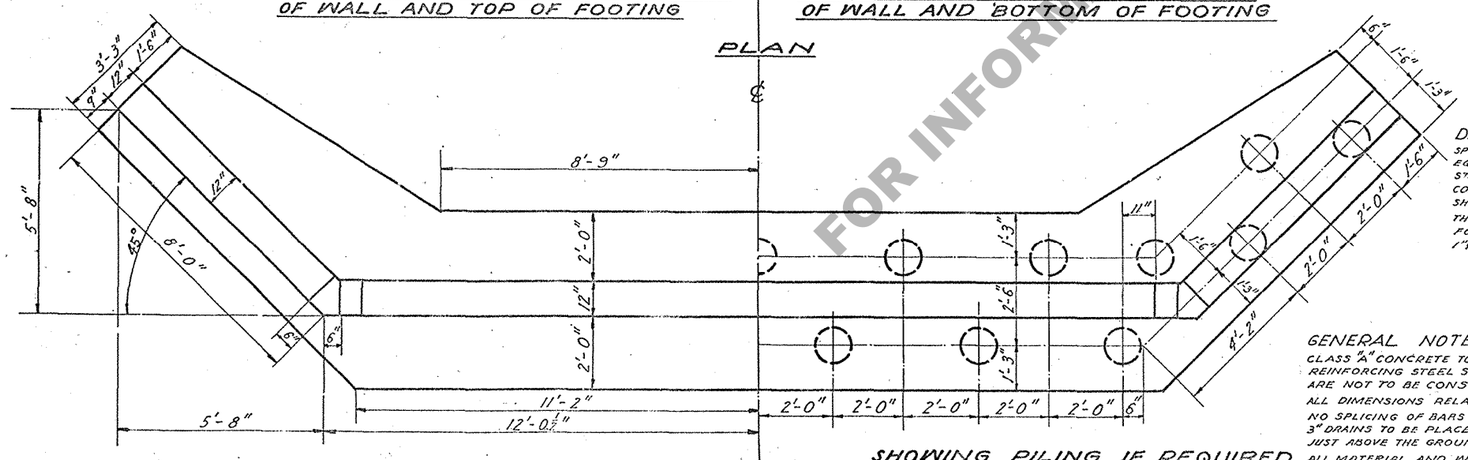
ELEVATION
WINGS SWUNG PARALLEL



SHOWING REINFORCEMENT IN FRONT OF WALL AND TOP OF FOOTING

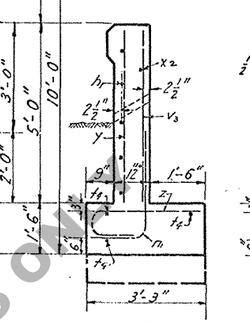
SHOWING REINFORCEMENT IN BACK OF WALL AND BOTTOM OF FOOTING

PLAN

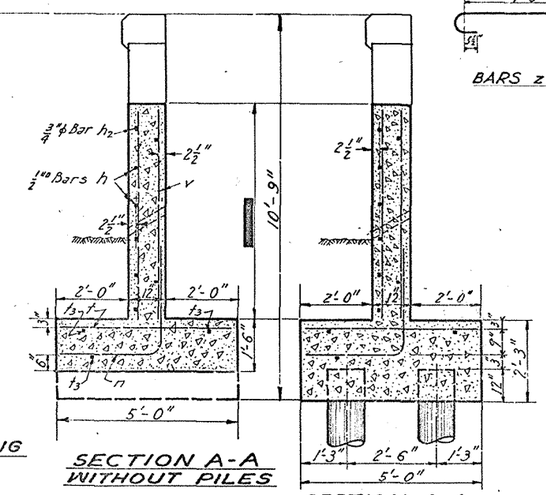


SHOWING PILING IF REQUIRED

PLAN

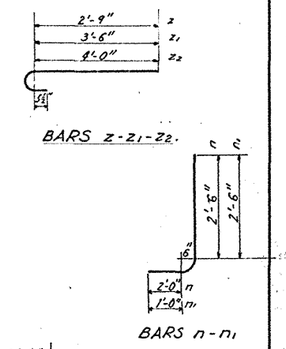


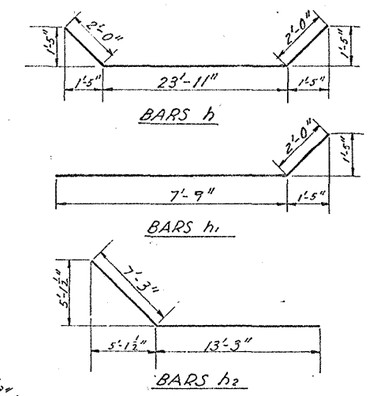
END OF WING



SECTION A-A
WITHOUT PILES

SECTION A-A
WITH PILES.





BILL OF MATERIAL

BARS	Nº	SIZE	LENGTH UNIT	LENGTH TOTAL	WEIGHT	LOCATION
n	24	1/2"□	5'-3"	126'-0"	107	BOTTOM OF FOOTING
n1	20	1/2"□	4'-3"	85'-0"	72	" " "
t	20	1/2"□	4'-6"	90'-0"	77	TOP OF FOOTING
t1	4	1/2"□	5'-0"	20'-0"	17	" " "
t3	3	1/2"□	23'-0"	69'-0"	59	FOOTING
t4	6	1/2"□	8'-6"	51'-0"	43	"
z	6	1/2"□	4'-0"	24'-0"	20	TOP OF FOOTING
z1	6	1/2"□	4'-9"	28'-6"	24	" " "
z2	8	1/2"□	5'-3"	42'-0"	36	" " "
h	5	1/2"□	27'-11"	139'-7"	119	HORIZ. MAIN WALL
h1	10	1/2"□	9'-9"	97'-6"	83	" WING "
y	11	1/2"□	5'-6"	60'-6"	51	VERT. IN WALLS
v	24	1/2"□	5'-9"	138'-0"	117	VERT. IN MAIN WALL
v1	6	1/2"□	7'-3"	43'-6"	37	" " WING "
v2	6	1/2"□	6'-0"	36'-0"	31	" " " "
v3	4	1/2"□	5'-0"	20'-0"	17	" " " "
x	2	1/2"□	23'-0"	46'-0"	39	HORIZ. IN WALL
x1	2	1/2"□	5'-0"	10'-0"	9	" " WING
x2	4	1/2"□	8'-0"	32'-0"	27	" " "
					985	TOTAL 1/2"□ BARS
h2	2	3/4"φ	20'-6"	41'-0"	62	HORIZ. MAIN WALL
TOTAL REINFORCING STEEL				1047	LBS.	
CLASS "A" CONCRETE (WITHOUT PILING)				19.74	CU. YDS.	
CLASS "A" CONCRETE (WITH PILING)				24.73	CU. YDS.	
19 PILES (IF REQUIRED) @ 20'-0" = 380 Lin. Ft. (For Estimating)						

DESIGN DATA

SPECIFICATIONS:- LOUISIANA HIGHWAY COMMISSION
EQUIVALENT FLUID PRESSURE 30 LBS. CU. FT.
STEEL IN TENSION 16000 LBS. PER SQ. INCH.
CONCRETE IN COMPRESSION 650 LBS. PER SQ. IN.
SHEAR CLASS "A" CONCRETE 40 LBS. PER SQ. IN.
THIS DESIGN IS BASED ON NET AREA OF BARS AS FOLLOWS:- 1/2"□ = 0.25 □", 3/4"φ = 0.442 □", 1"φ = 0.785 □", 1"□ = 1.0 □", 1 1/4"□ = 1.563 □".

GENERAL NOTES

CLASS "A" CONCRETE TO BE USED THROUGHOUT. PROPORTIONS 1:2:4.
REINFORCING STEEL SHALL BE DEFORMED BARS. SQUARE TWISTED BARS ARE NOT TO BE CONSIDERED DEFORMED BARS.
ALL DIMENSIONS RELATIVE TO REINFORCEMENT ARE TO CENTERS OF BARS.
NO SPLICING OF BARS WILL BE PERMITTED OTHER THAN SHOWN ON PLANS.
3" DRAINS TO BE PLACED AT 10'-0" CTRS. IN WINGS AND ABUTMENTS JUST ABOVE THE GROUND LINE.
ALL MATERIAL AND WORKMANSHIP AS PER SPECIFICATIONS OF LA. HIGHWAY COM.
ALL EXPOSED CORNERS TO BE CHAMFERED 1".
IF PILES ARE USED FOOTING IS TO BE DEEPENED 9" AS SHOWN BY BROKEN LINES IN THE DRAWINGS. THE NUMBER KIND AND AMOUNT OF REINFORCING STEEL TO REMAIN UNCHANGED.

STANDARD
R. C. ABUTMENT
FOR 10 FT. HEIGHT

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA.

Scale 1/2" = 1'-0"

Date, Dec. 1923

Approved

STATE HIGHWAY ENGINEER.

FOR INFORMATIONAL PURPOSES ONLY

(B-2-91) C-S-2