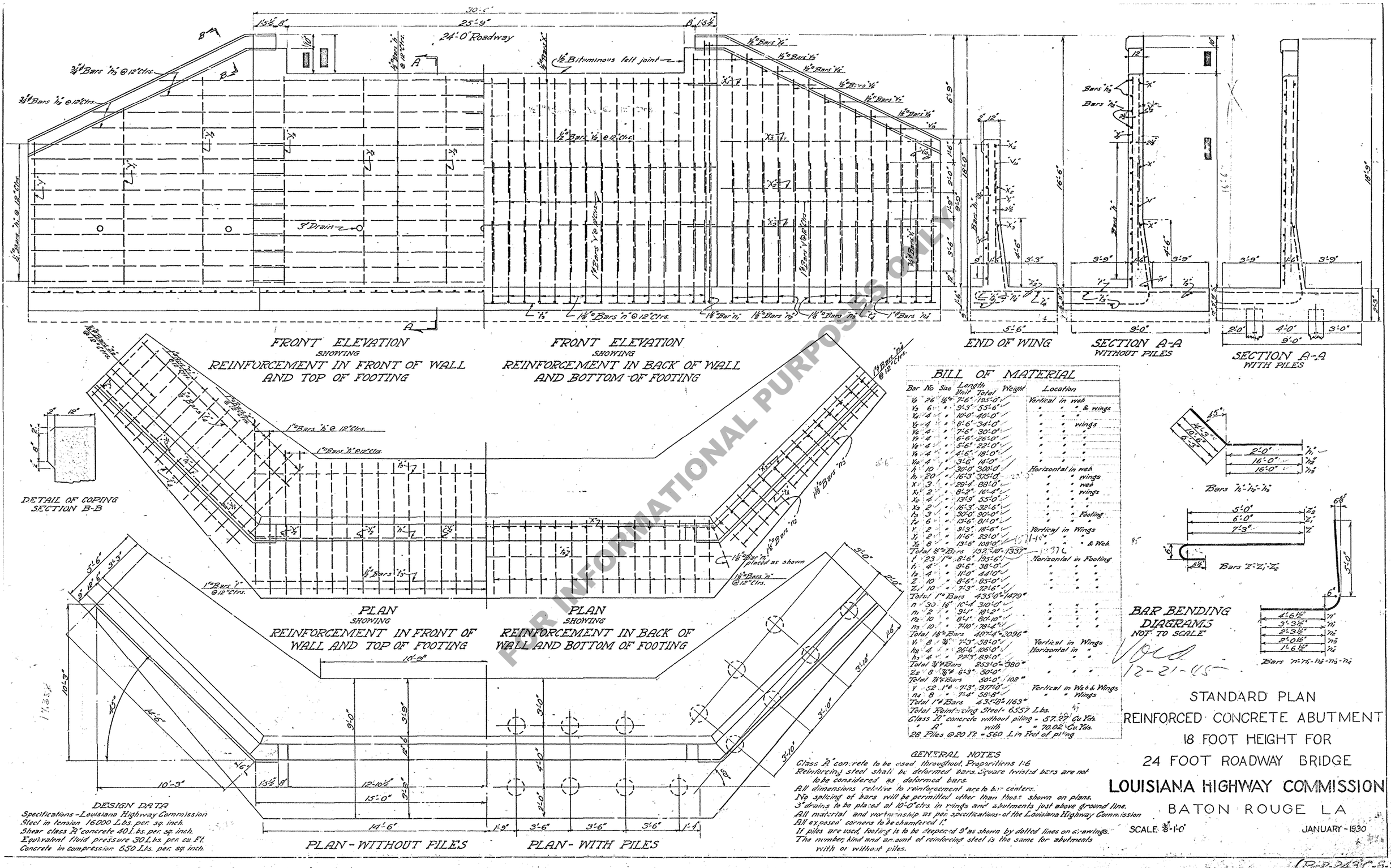

BILL OF MATERIAL

Bar	No	Size	Length Unit	Length Total	Weight	Location
V₁	26	½"	7'-6"	195'-0"		Vertical in web
V₂	6	"	9'-3"	55'-6"		" " " & wings
V₃	4	"	10'-0"	40'-0"		" " "
V₄	4	"	8'-6"	34'-0"		" " wings
V₅	4	"	7'-6"	30'-0"		" " "
V₆	4	"	6'-6"	26'-0"		" " "
V₇	4	"	5'-6"	22'-0"		" " "
V₈	4	"	4'-6"	18'-0"		" " "
V₉	4	"	3'-6"	14'-0"		" " "
h	10	"	30'-0"	300'-0"		Horizontal in web
h₁	20	"	16'-3"	375'-0"		" " wings
x	3	"	29'-4"	88'-0"		" " web
x₁	2	"	8'-2"	16'-4"		" " wings
x₂	4	"	13'-9"	55'-0"		" " "
x₃	2	"	16'-3"	32'-6"		" " "
x₄	3	"	30'-0"	90'-0"		" " Footing
x₅	6	"	13'-6"	81'-0"		" " "
y	2	"	9'-3"	18'-6"		Vertical in Wings
y₁	2	"	11'-6"	23'-0"		" " "
y₂	8	"	13'-6"	108'-0"		" " & Web
Total ½" Bars				1537'-10"	1537	
r	23	1"	8'-6"	195'-6"		Horizontal in Footing
r₁	4	"	9'-6"	38'-0"		" " "
r₂	4	"	11'-0"	44'-0"		" " "
z	10	"	8'-6"	85'-0"		" " "
z₁	10	"	7'-3"	72'-6"		" " "
Total 1" Bars				435'-0"	1479"	
n	30	1⅛"	10'-4"	310'-0"		" " "
n₁	2	"	9'-1"	18'-2"		" " "
n₂	10	"	8'-1"	80'-10"		" " "
n₃	10	"	7'-10"	78'-4"		" " "
Total 1⅛" Bars				487'-4"	2096"	
V₁	8	⅝"	7'-3"	58'-0"		Vertical in Wings
h₂	4	"	26'-6"	106'-0"		Horizontal in "
h₃	4	"	22'-3"	89'-0"		" " "
Total ⅝" Bars				253'-0"	380"	
z₂	8	⅝"	6'-3"	50'-0"		
Total ⅝" Bars				50'-0"	102"	
V	52	1"	7'-3"	377'-0"		Vertical in Web & Wings
n₄	8	"	7'-4"	59'-8"		" " Wings
Total 1" Bars				436'-8"	1163"	

Total Reinforcing Steel = 6557 Lbs.
Class "A" concrete without piling = 57.29 Cu. Yds.
" " with " = 70.02 Cu. Yds.
28 Piles @ 20 Ft. = 560 Lin. Feet of piling

DESIGN DATA

Specifications - Louisiana Highway Commission
Steel in tension 16000 Lbs. per sq. inch.
Shear class "A" concrete 40 Lbs. per sq. inch.
Equivalent fluid pressure 30 Lbs. per cu. Ft.
Concrete in compression 650 Lbs. per sq. inch.

GENERAL NOTES

Class "A" concrete to be used throughout. Proportions 1:6
Reinforcing steel shall be deformed bars. Square twisted bars are not to be considered as deformed bars.
All dimensions relative to reinforcement are to bar centers.
No splicing of bars will be permitted other than those shown on plans.
3" drains to be placed at 10'-0" ctrs in wings and abutments just above ground line.
All material and workmanship as per specifications of the Louisiana Highway Commission
All exposed corners to be chamfered 1".
If piles are used, footing is to be deepened 9" as shown by dotted lines on drawings.
The number, kind and amount of reinforcing steel is the same for abutments with or without piles.

STANDARD PLAN
REINFORCED CONCRETE ABUTMENT
18 FOOT HEIGHT FOR
24 FOOT ROADWAY BRIDGE

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE LA

SCALE: ⅜"=1'-0"

JANUARY - 1930

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FOR INFORMATIONAL PURPOSES ONLY