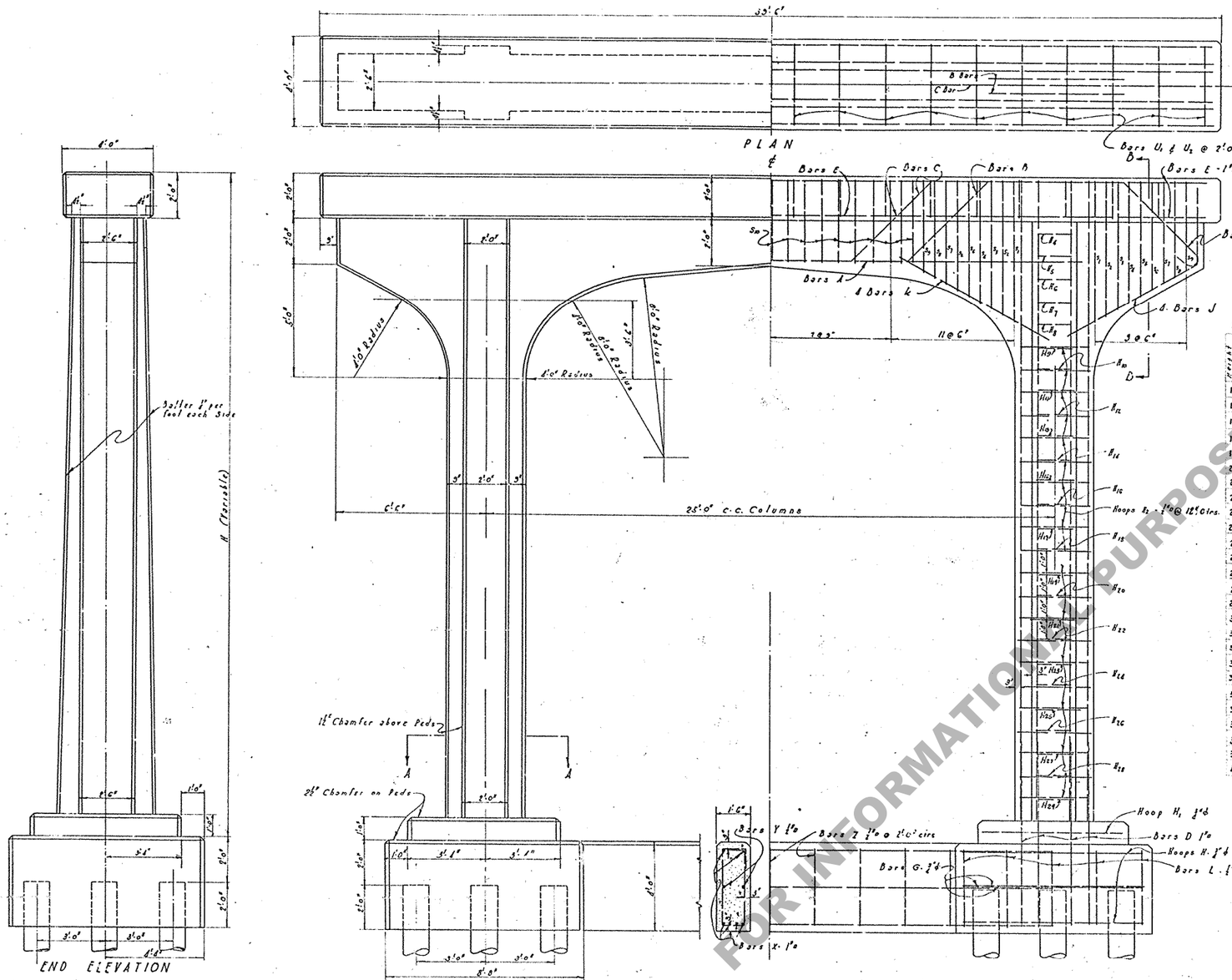
STATE PROJECT	OFFICIAL ROUTE	PARISH	YEAR	SHEET NO	TOTAL SHEETS								SHEET NO	SPEC
													23	



KEY TO VARIABLE HOOPS

Ex: for H-26 order 2 of all hoops from H_1-H_{25} (incl.) & order 2 H_2 Hoops for each H bar below H_{26}.

REINFORCING STEEL

Mark	Size	No	Un. Lg.	Tot. Lg	Description	Location
H_2	½"ø	Variable	12'-2"	Variable		Hoops in Columns
H_1 to H_{40}	"	2 Each	Variable	Variable	Hoops H_1, H_2, H_3 etc. Spaced as shown on Plans. Variable	Hoops in Cols.
S_1 to S_3	"	8 Each 72	Variable Average 12'-10½"	927'-0"	144 ft. is since taken off of bar	Stirrups in T Beams
S_{10}	"	38	10'-2"	386'-8"		"
U_1	"	20	7'-10"	156'-8"		Stirrups in Cap
U_2	"	20	6'-7½"	132'-6"		"
Total ½"ø Bars				1562'-0" = 1328 lbs + Variable Bars		
J	¾"ø	8	10'-10"	86'-8"		Bracket
K	"	8	7'-6"	60'-0"	Straight	Cap
Total ¾"ø bars				146'-8" = 220 lbs + Flg Bars		
E	1"ø	8	41'-0"	328'-0"		Cap
F	"	20	(11'-1"ø)	Variable	Straight	Col.
Total 1"ø Bars				328'-0" = 1115 lbs + Variable Bars		
A	1¼"ø	4	30'-6"	122'-0"		T Beams
B	"	2	45'-3"	91'-6"		"
C	"	1	44'-0"	44'-0"		"
Total 1¼"ø Bars				257'-6" = 1100 lbs		
Total Reinf steel = 3771 lbs + variable bars						
REINFORCING STEEL IN 12 PILE FOOTING						
Z	½"ø	9	10'-8"	96'-0"		Diaphragm
Y	"	2	25'-0"	50'-0"	Straight	"
L	"	32	3'-6"	112'-0"	Straight	Footing
Total ½"ø bars				258'-0" = 219 lbs		
G	¾"ø	8	8'-0"	64'-0"	Straight	Flg
G_1	"	12	5'-6"	66'-0"	"	Flg
H	"	6	29'-6"	177'-0"		"
H_1	"	2	22'-6"	45'-0"		"
Total ¾"ø bars				342'-0" = 629 lbs.		
D	1"ø	20	7'-0"	140'-0"	Straight	
X	"	6	25'-0"	150'-0"	"	Diaphragm
Total 1"ø bars				290'-0" = 986 lbs		
REINFORCING STEEL IN 14 & 16 PILE FOOTINGS						
Z	½"ø	9	10'-8"	96'-0"	As detailed above	Diaphragm
Y	"	2	25'-0"	50'-0"	Straight	"
L	"	32	3'-6"	112'-0"	"	Footing
Total ½"ø bars				258'-0" = 219 lbs		
G	¾"ø	24	8'-0"	192'-0"	Straight	Footing
H	"	6	34'-6"	207'-0"		"
H_1	"	2	26'-6"	53'-0"		"
Total ¾"ø bars				452'-0" = 679 lbs.		
D	1"ø	20	7'-0"	140'-0"	Straight	Flg
X	"	6	25'-0"	150'-0"	"	Diaphr.
Total 1"ø bars				290'-0" = 986 lbs		

TABLE OF QUANTITIES

Note: For Total Reinf Steel add 170# to Quantity shown.

Pile No.	34' Span 12 Pile Footing Conc	34' Span 12 Pile Footing Steel	36' Span 12 Pile Footing Conc	36' Span 12 Pile Footing Steel	38' Span 12 Pile Footing Conc	38' Span 12 Pile Footing Steel	40' Span 12 Pile Footing Conc	40' Span 12 Pile Footing Steel
15	59.65	6628	60.78	6718			61.78	6718
16	61.65	6736	62.72	6886			63.72	6886
17	62.38	6845	63.67	6996			65.47	6995
18	63.23	6955	64.32	7106			66.32	7106
19	64.06	70 64	65.17	7214	65.17	7214	65.17	7214
20	64.94	71 70	66.03	7320	66.03	7320	67.03	7320
21	65.81	72 80	67.30	7430	67.30	7430	67.30	7430
22	66.51	73 92	68.40	7542	68.40	7542	68.40	7542
23	67.56	75 01	69.65	7651	69.65	7651	69.65	7651
24	68.44	76 11	70.53	7761	70.53	7761	70.53	7761
25	69.33	77 21	70.42	7871	70.42	7871	70.42	7871
26	70.25	78 25	71.34	7973	71.34	7973	71.34	7973
27	71.16	7935	72.25	8085	72.25	8085	72.25	8085
28	72.06	8046	73.15	8196	73.15	8196	73.15	8196
29	72.96	81 56	74.07	8306	74.07	8306	74.07	8306
30	73.86	82 75	74.95	8423	74.95	8423		74.95 8423
31	74.83	8385	75.92	8533	75.92	8533		75.92 8533
32		75.85 8644	76.85	8644	76.85	8644		76.85 8644
33		76.75 8772	77.75	8772	77.75	8772		77.75 8772
34		77.75 8884	78.75	8884	78.75	8884		78.75 8884
35		78.68 8995	79.68	8995	79.68	8995		79.68 8995
36		79.63 9107	80.63	9107	80.63	9107		80.63 9107
37		80.60 9219	81.60	9219	81.60	9219		81.60 9219
38		81.61 9331	82.61	9331		82.61 9331		82.61 9331
39		82.59 9442	83.59	9442		83.59 9442		83.59 9442
40		83.57 9553	84.57	9553		84.57 9553		84.57 9553

NOTE: Length of all hooks equals 16 diams of bar

Max Pile Loading: 30 tons per pile.

STANDARD PLAN
REINF CONC COLUMN BENT
FOR 40' RDWY & 2-6' SIDEWALKS
SPANS 34 to 40 FT.
HEIGHTS 15 to 40 FT.

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA
MARCH 1931

FOR INFORMATIONAL PURPOSES ONLY