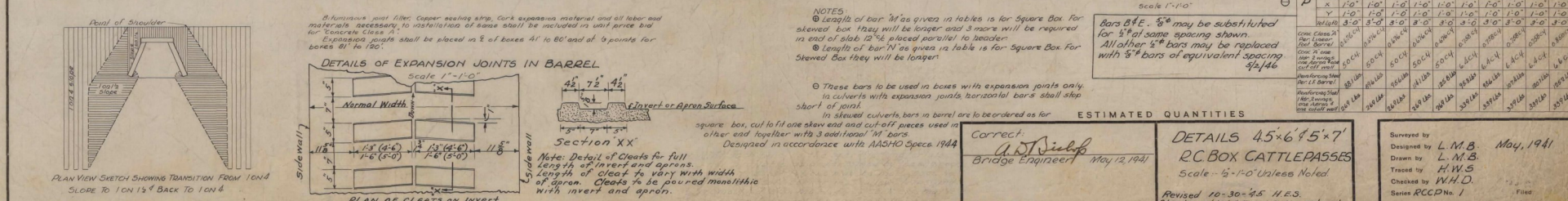
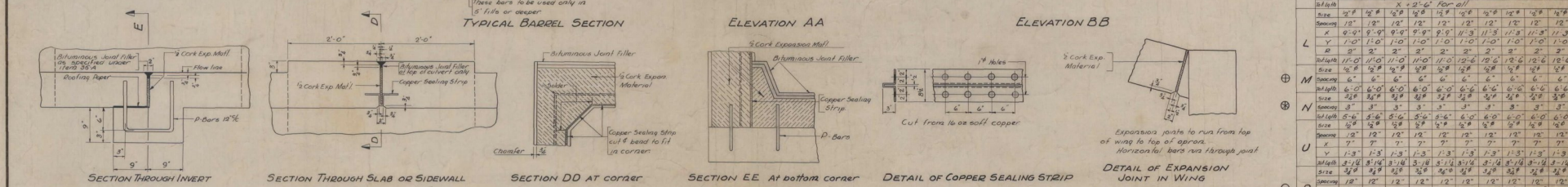
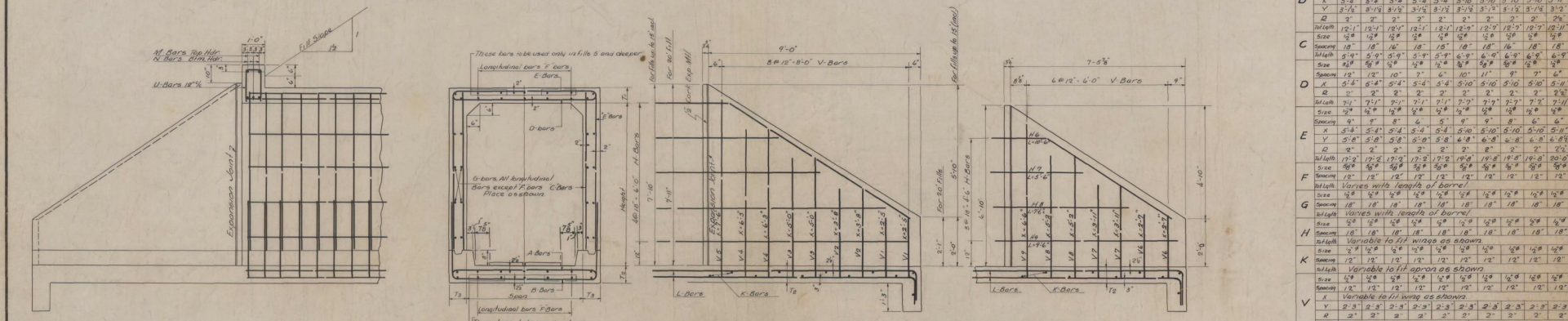
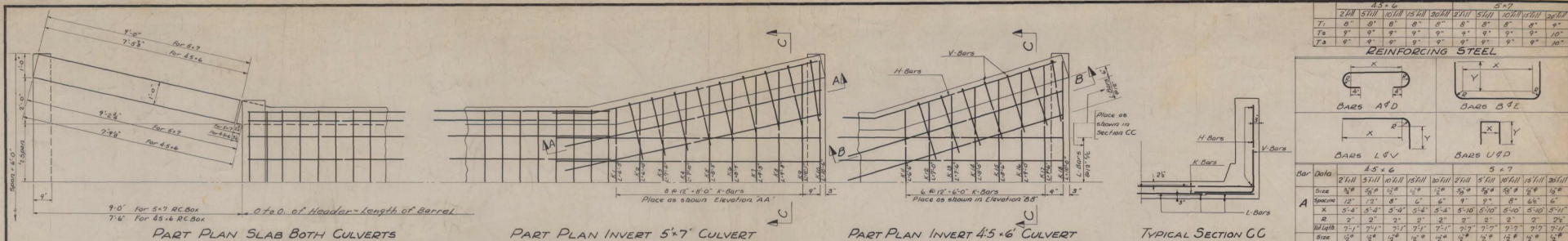
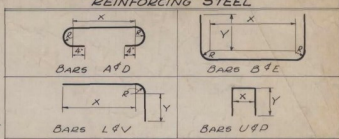


REINFORCING STEEL SCHEDULE

WINGS		BARREL			HEADERS AND APRONS									
No.	Size	Length	Mark	Type	No.	Size	Length	Mark	Type	No.	Size	Length	Mark	Type
1	#4	2'-0"	M401A	SP.	1	#4	2'-0"	M402	SP.	1	#4	2'-0"	M403	SP.
2	#4	2'-0"	M401B	SP.	2	#4	2'-0"	M404	SP.	2	#4	2'-0"	M405	SP.
3	#4	2'-0"	M401C	SP.	3	#4	2'-0"	M406	SP.	3	#4	2'-0"	M407	SP.
4	#4	2'-0"	M401D	SP.	4	#4	2'-0"	M408	SP.	4	#4	2'-0"	M409	SP.
5	#4	2'-0"	M401E	SP.	5	#4	2'-0"	M410	SP.	5	#4	2'-0"	M411	SP.
6	#4	2'-0"	M401F	SP.	6	#4	2'-0"	M412	SP.	6	#4	2'-0"	M413	SP.
7	#4	2'-0"	M401G	SP.	7	#4	2'-0"	M414	SP.	7	#4	2'-0"	M415	SP.
8	#4	2'-0"	M401H	SP.	8	#4	2'-0"	M416	SP.	8	#4	2'-0"	M417	SP.
9	#4	2'-0"	M401I	SP.	9	#4	2'-0"	M418	SP.	9	#4	2'-0"	M419	SP.
10	#4	2'-0"	M401J	SP.	10	#4	2'-0"	M420	SP.	10	#4	2'-0"	M421	SP.
11	#4	2'-0"	M401K	SP.	11	#4	2'-0"	M422	SP.	11	#4	2'-0"	M423	SP.
12	#4	2'-0"	M401L	SP.	12	#4	2'-0"	M424	SP.	12	#4	2'-0"	M425	SP.
13	#4	2'-0"	M401M	SP.	13	#4	2'-0"	M426	SP.	13	#4	2'-0"	M427	SP.
14	#4	2'-0"	M401N	SP.	14	#4	2'-0"	M428	SP.	14	#4	2'-0"	M429	SP.
15	#4	2'-0"	M401O	SP.	15	#4	2'-0"	M430	SP.	15	#4	2'-0"	M431	SP.
16	#4	2'-0"	M401P	SP.	16	#4	2'-0"	M432	SP.	16	#4	2'-0"	M433	SP.
17	#4	2'-0"	M401Q	SP.	17	#4	2'-0"	M434	SP.	17	#4	2'-0"	M435	SP.
18	#4	2'-0"	M401R	SP.	18	#4	2'-0"	M436	SP.	18	#4	2'-0"	M437	SP.
19	#4	2'-0"	M401S	SP.	19	#4	2'-0"	M438	SP.	19	#4	2'-0"	M439	SP.
20	#4	2'-0"	M401T	SP.	20	#4	2'-0"	M440	SP.	20	#4	2'-0"	M441	SP.
21	#4	2'-0"	M401U	SP.	21	#4	2'-0"	M442	SP.	21	#4	2'-0"	M443	SP.
22	#4	2'-0"	M401V	SP.	22	#4	2'-0"	M444	SP.	22	#4	2'-0"	M445	SP.
23	#4	2'-0"	M401W	SP.	23	#4	2'-0"	M446	SP.	23	#4	2'-0"	M447	SP.
24	#4	2'-0"	M401X	SP.	24	#4	2'-0"	M448	SP.	24	#4	2'-0"	M449	SP.
25	#4	2'-0"	M401Y	SP.	25	#4	2'-0"	M450	SP.	25	#4	2'-0"	M451	SP.
26	#4	2'-0"	M401Z	SP.	26	#4	2'-0"	M452	SP.	26	#4	2'-0"	M453	SP.
27	#4	2'-0"	M402A	SP.	27	#4	2'-0"	M454	SP.	27	#4	2'-0"	M455	SP.
28	#4	2'-0"	M402B	SP.	28	#4	2'-0"	M456	SP.	28	#4	2'-0"	M457	SP.
29	#4	2'-0"	M402C	SP.	29	#4	2'-0"	M458	SP.	29	#4	2'-0"	M459	SP.
30	#4	2'-0"	M402D	SP.	30	#4	2'-0"	M460	SP.	30	#4	2'-0"	M461	SP.
31	#4	2'-0"	M402E	SP.	31	#4	2'-0"	M462	SP.	31	#4	2'-0"	M463	SP.
32	#4	2'-0"	M402F	SP.	32	#4	2'-0"	M464	SP.	32	#4	2'-0"	M465	SP.
33	#4	2'-0"	M402G	SP.	33	#4	2'-0"	M466	SP.	33	#4	2'-0"	M467	SP.
34	#4	2'-0"	M402H	SP.	34	#4	2'-0"	M468	SP.	34	#4	2'-0"	M469	SP.
35	#4	2'-0"	M402I	SP.	35	#4	2'-0"	M470	SP.	35	#4	2'-0"	M471	SP.
36	#4	2'-0"	M402J	SP.	36	#4	2'-0"	M472	SP.	36	#4	2'-0"	M473	SP.
37	#4	2'-0"	M402K	SP.	37	#4	2'-0"	M474	SP.	37	#4	2'-0"	M475	SP.
38	#4	2'-0"	M402L	SP.	38	#4	2'-0"	M476	SP.	38	#4	2'-0"	M477	SP.
39	#4	2'-0"	M402M	SP.	39	#4	2'-0"	M478	SP.	39	#4	2'-0"	M479	SP.
40	#4	2'-0"	M402N	SP.	40	#4	2'-0"	M480	SP.	40	#4	2'-0"	M481	SP.
41	#4	2'-0"	M402O	SP.	41	#4	2'-0"	M482	SP.	41	#4	2'-0"	M483	SP.
42	#4	2'-0"	M402P	SP.	42	#4	2'-0"	M484	SP.	42	#4	2'-0"	M485	SP.
43	#4	2'-0"	M402Q	SP.	43	#4	2'-0"	M486	SP.	43	#4	2'-0"	M487	SP.
44	#4	2'-0"	M402R	SP.	44	#4	2'-0"	M488	SP.	44	#4	2'-0"	M489	SP.
45	#4	2'-0"	M402S	SP.	45	#4	2'-0"	M490	SP.	45	#4	2'-0"	M491	SP.
46	#4	2'-0"	M402T	SP.	46	#4	2'-0"	M492	SP.	46	#4	2'-0"	M493	SP.
47	#4	2'-0"	M402U	SP.	47	#4	2'-0"	M494	SP.	47	#4	2'-0"	M495	SP.
48	#4	2'-0"	M402V	SP.	48	#4	2'-0"	M496	SP.	48	#4	2'-0"	M497	SP.
49	#4	2'-0"	M402W	SP.	49	#4	2'-0"	M498	SP.	49	#4	2'-0"	M499	SP.
50	#4	2'-0"	M402X	SP.	50	#4	2'-0"	M500	SP.	50	#4	2'-0"	M501	SP.
51	#4	2'-0"	M402Y	SP.	51	#4	2'-0"	M502	SP.	51	#4	2'-0"	M503	SP.
52	#4	2'-0"	M402Z	SP.	52	#4	2'-0"	M504	SP.	52	#4	2'-0"	M505	SP.
53	#4	2'-0"	M403A	SP.	53	#4	2'-0"	M506	SP.	53	#4	2'-0"	M507	SP.
54	#4	2'-0"	M403B	SP.	54	#4	2'-0"	M508	SP.	54	#4	2'-0"	M509	SP.
55	#4	2'-0"	M403C	SP.	55	#4	2'-0"	M510	SP.	55	#4	2'-0"	M511	SP.
56	#4	2'-0"	M403D	SP.	56	#4	2'-0"	M512	SP.	56	#4	2'-0"	M513	SP.
57	#4	2'-0"	M403E	SP.	57	#4	2'-0"	M514	SP.	57	#4	2'-0"	M515	SP.
58	#4	2'-0"	M403F	SP.	58	#4	2'-0"	M516	SP.	58	#4	2'-0"	M517	SP.
59	#4	2'-0"	M403G	SP.	59	#4	2'-0"	M518	SP.	59	#4	2'-0"	M519	SP.
60	#4	2'-0"	M403H	SP.	60	#4	2'-0"	M520	SP.	60	#4	2'-0"	M521	SP.
61	#4	2'-0"	M403I	SP.	61	#4	2'-0"	M522	SP.	61	#4	2'-0"	M523	SP.
62	#4	2'-0"	M403J	SP.	62	#4	2'-0"	M524	SP.	62	#4	2'-0"	M525	SP.
63	#4	2'-0"	M403K	SP.	63	#4	2'-0"	M526	SP.	63	#4	2'-0"	M527	SP.
64	#4	2'-0"	M403L	SP.	64	#4	2'-0"	M528	SP.	64	#4	2'-0"	M529	SP.
65	#4	2'-0"	M403M	SP.	65	#4	2'-0"	M530	SP.	65	#4	2'-0"	M531	SP.
66	#4	2'-0"	M403N	SP.	66	#4	2'-0"	M532	SP.	66	#4	2'-0"	M533	SP.
67	#4	2'-0"	M403O	SP.	67	#4	2'-0"	M534	SP.	67	#4	2'-0"	M535	SP.
68	#4	2'-0"	M403P	SP.	68	#4	2'-0"	M536	SP.	68	#4	2'-0"	M537	SP.
69	#4	2'-0"	M403Q	SP.	69	#4	2'-0"	M538	SP.	69	#4	2'-0"	M539	SP.
70	#4	2'-0"	M403R	SP.	70	#4	2'-0"	M540	SP.	70	#4	2'-0"	M541	SP.
71	#4	2'-0"	M403S	SP.	71	#4	2'-0"	M542	SP.	71	#4	2'-0"	M543	SP.
72	#4	2'-0"	M403T	SP.	72	#4	2'-0"	M544	SP.	72	#4	2'-0"	M545	SP.
73	#4	2'-0"	M403U	SP.	73	#4	2'-0"	M546	SP.	73	#4	2'-0"	M547	SP.
74	#4	2'-0"	M403V	SP.	74	#4	2'-0"	M548	SP.	74	#4	2'-0"	M549	SP.
75	#4	2'-0"	M403W	SP.	75	#4	2'-0"	M550	SP.	75	#4	2'-0"	M551	SP.
76	#4	2'-0"	M403X	SP.	76	#4	2'-0"	M552	SP.	76	#4	2'-0"	M553	SP.
77	#4	2'-0"	M403Y	SP.	77	#4	2'-0"	M554	SP.	77	#4	2'-0"	M555	SP.
78	#4	2'-0"	M403Z	SP.	78	#4	2'-0"	M556	SP.	78	#4	2'-0"	M557	SP.
79	#4	2'-0"	M404A	SP.	79	#4	2'-0"	M558	SP.	79	#4	2'-0"	M559	SP.
80	#4	2'-0"	M404B	SP.	80	#4	2'-0"	M560	SP.	80	#4	2'-0"	M561	SP.
81	#4	2'-0"	M404C	SP.	81	#4	2'-0"	M562	SP.	81	#4	2'-0"	M563	SP.
82	#4	2'-0"	M404D	SP.	82	#4	2'-0"	M564	SP.	82	#4	2'-0"	M565	SP.
83	#4	2'-0"	M404E	SP.	83	#4	2'-0"	M566	SP.	83	#4	2'-0"	M567	SP.
84	#4	2'-0"	M404F	SP.	84	#4	2'-0"	M568	SP.	84	#4	2'-0"	M569	SP.
85	#4	2'-0"	M404G	SP.	85	#4	2'-0"	M570	SP.	85	#4	2'-0"	M571	SP.
86	#4	2'-0"	M404H	SP.	86	#4	2'-0"	M572	SP.	86	#4	2'-0"	M573	SP.
87	#4	2'-0"	M404I	SP.	87	#4	2'-0"	M574	SP.	87	#4	2'-0"	M575	SP.
88	#4	2'-0"	M404J	SP.	88	#4	2'-0"	M576	SP.	88	#4	2'-0"	M577	SP.
89	#4	2'-0"	M404K	SP.	89	#4	2'-0"	M578	SP.	89	#4	2'-0"	M579	SP.
90	#4	2'-0"	M404L	SP.	90	#4	2'-0"	M580	SP.	90	#4	2'-0"	M581	SP.
91	#4	2'-0"	M404M	SP.	91	#4	2'-0"	M582	SP.	91	#4	2'-0"	M583	SP.
92	#4	2'-0"	M404N	SP.	92	#4	2'-0"	M584	SP.	92	#4	2'-0"	M585	SP.
93	#4	2'-0"	M404O	SP										



45 x 6										5 x 7									
T	7'	8'	9'	10'	11'	12'	13'	14'	15'	T	7'	8'	9'	10'	11'	12'	13'	14'	15'
Fs	9"	9"	9"	9"	9"	9"	9"	9"	9"	Fs	9"	9"	9"	9"	9"	9"	9"	9"	9"
Ts	6"	6"	6"	6"	6"	6"	6"	6"	6"	Ts	6"	6"	6"	6"	6"	6"	6"	6"	6"



Bar	45 x 6										5 x 7										
	2'11"	3'11"	4'11"	5'11"	6'11"	7'11"	8'11"	9'11"	10'11"	11'11"	2'11"	3'11"	4'11"	5'11"	6'11"	7'11"	8'11"	9'11"	10'11"	11'11"	
A	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
B	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
C	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
D	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
E	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
F	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
G	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
H	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
I	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
J	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
K	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
L	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
M	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
N	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
O	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
P	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
Q	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	Size	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
R	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	Spacing	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

NOTES
 1. Length of bar "N" as given in tables is for square box. For skewed box they will be longer and 3 more will be required in end of slab 12" placed parallel to header.
 2. Length of bar "N" as given in table is for square box. For skewed box they will be longer.

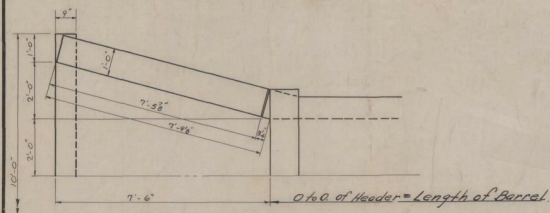
3. These bars to be used in boxes with expansion joints only in culverts with expansion joints, horizontal cable steel strip short of joint.
 4. In skewed culverts bars in barrel are to be ordered as for square box, cut to fit use slant end and cut-off pieces used in other end together with 3 additional 1/2" bars.
 5. Designed in accordance with ANSHO Spec. 1944

ESTIMATED QUANTITIES

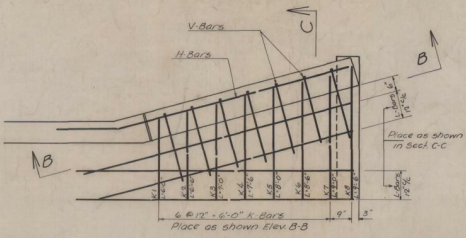
Correct: *A.D. Sief*
 Bridge Engineer May 12, 1941

DETAILS 45'x6'45'x7'
 RC BOX CATTLEPASSES
 Scale - 1/2"=1'-0" Unless Noted
 Revised 10-30-45 H.E.S.
 Cleats added & P. test better reduced

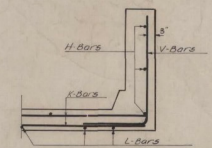
Surveyed by L.M.B. May, 1941
 Drawn by L.M.B.
 Traced by H.W.D.
 Checked by W.H.D.
 Series RCC No. 1
 Sheet of Sheets



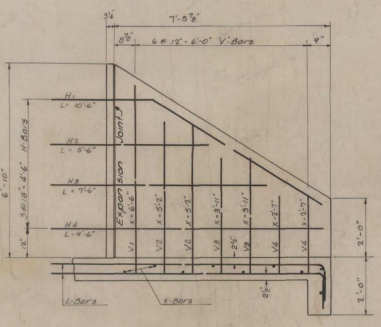
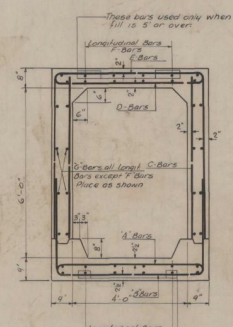
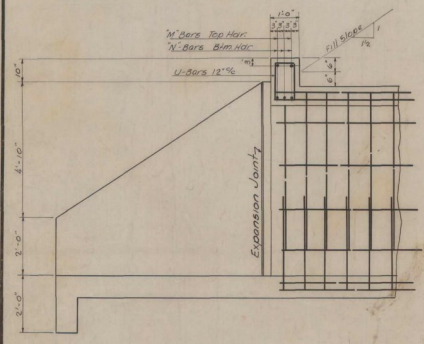
PART PLAN SLAB



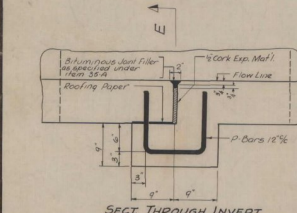
PART PLAN INVERT



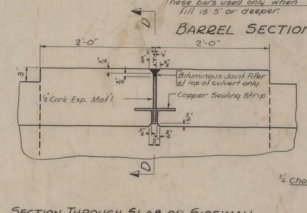
SECTION CC



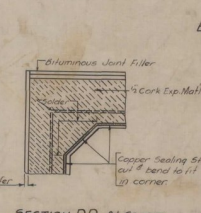
ELEVATION B-B



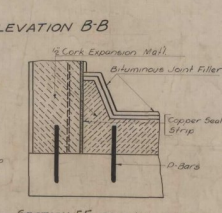
SECT THROUGH INVERT



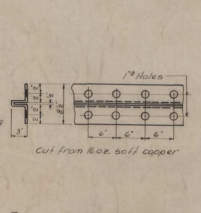
SECTION THROUGH SLAB OR SIDEWALL



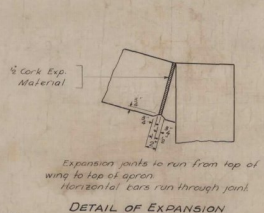
SECTION DD AT CORNER



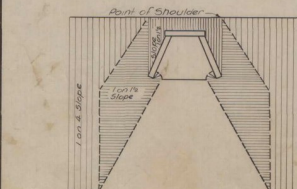
SECTION EE AT BOTTOM CORNER



DETAIL OF COPPER SEALING STRIP



DETAIL OF EXPANSION JOINT IN WING



PLAN VIEW SKETCH SHOWING TRANSITION FROM 1 ON 4 SLOPE TO 1 ON 1 1/2 BACK TO 1 ON 4

DETAILS OF EXPANSION JOINTS IN BARREL
Scale 1" = 1'-0"

Bituminous joint filler, copper sealing strip, cork expansion material and all labor and materials necessary to installation of same shall be included in unit price. See also concrete class 4.
Expansion joints shall be placed in 1/4 of boxes 41" to 80" and at 1/4 points for boxes 81" to 120".

NOTES
① Length of bar "M" as given in tables is for Square Box. For skewed box they will be longer and 3 more will be required in end of slab 12" @.
② Length of bar "N" as given table is for Square Box. For skewed box they will be longer.
③ These bars to be used in boxes with expansion joints only. In culverts with expansion joints, horizontal bars shall stop short of joint.
④ In skewed culverts, bars in barrel are to be ordered as for square box, cut to fit one skew end and cut off pieces used in other end together with 3 additional "M" bars designed in accordance with AASHTO Specification, 1941.
⑤ During such time as the specified materials are not available, as determined by the engineer, the following substitutions may be made: 40 oz. sheet lead for 1/2 oz. soft copper in Sealing Strips and 2 prewired exp. matl. for 1/2" cork exp. matl. in wing and barrel expansion joints.

REINFORCING STEEL

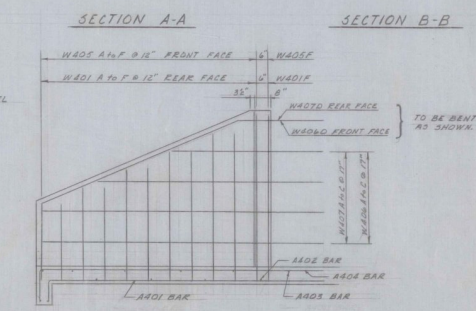
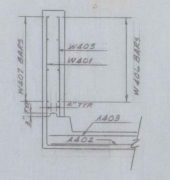
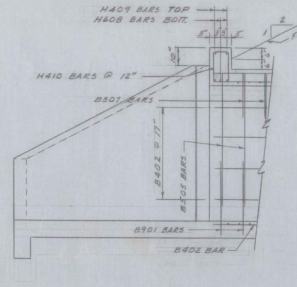
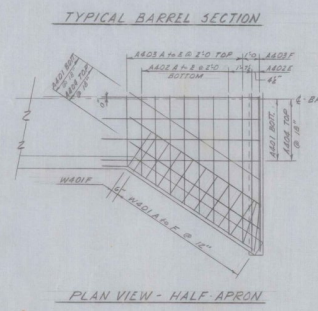
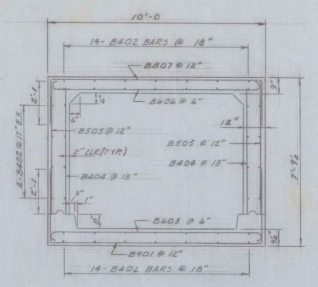
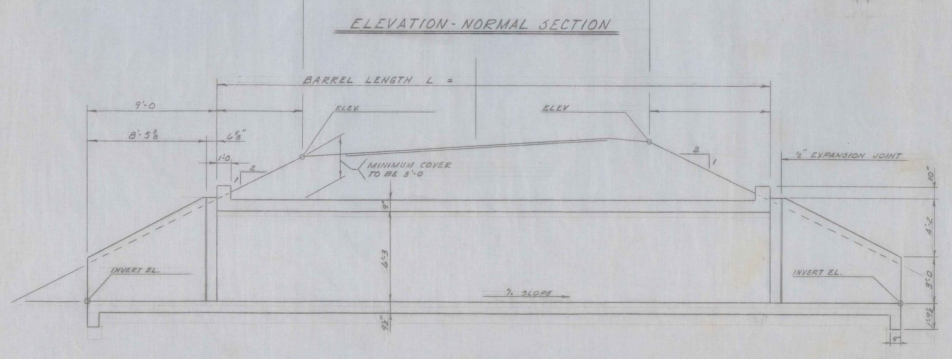
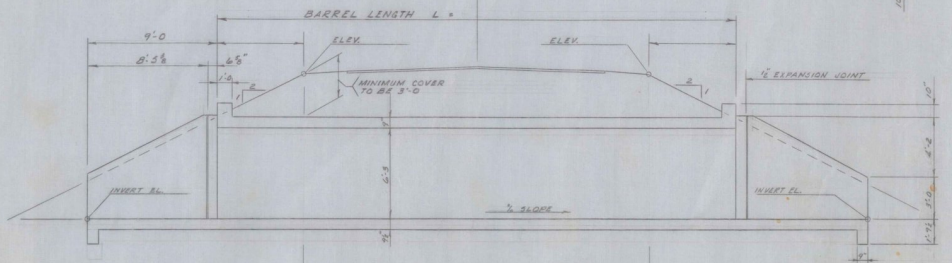
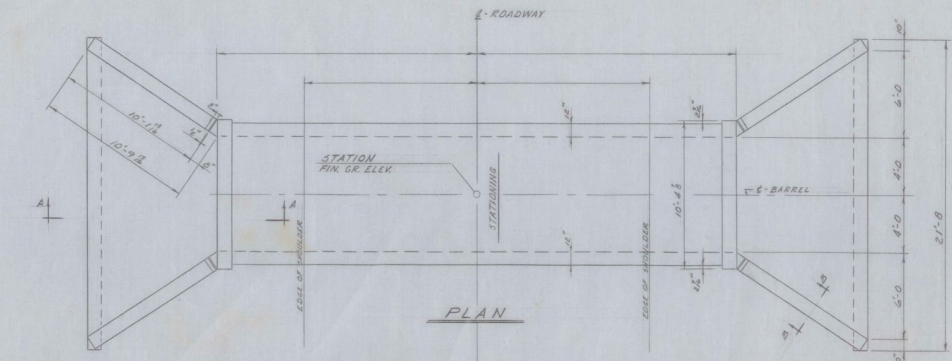
Bar Data	4' x 6'	6' x 6'	8' x 6'	10' x 6'	12' x 6'
A	12	12	10	7 1/2	5 1/2
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
B	10	10	10	7 1/2	5 1/2
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
C	18	18	15	15	15
X	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
D	9	12	10	7 1/2	5 1/2
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
E	10	10	10	7 1/2	5 1/2
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
F	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
G	18	18	18	18	18
X	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
H	18	18	18	18	18
X	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
I	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
J	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
K	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
L	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
M	6	6	6	6	6
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
N	3	3	3	3	3
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
O	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
P	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
Q	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
R	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
S	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
T	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
U	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
V	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
W	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"
Z	12	12	12	12	12
X	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
Y	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"
Size	1/2"	1/2"	1/2"	1/2"	1/2"

ESTIMATED QUANTITIES

DETAILS 4'x6'
RC BOX CATTLEPASS
Scale 1/2" = 1'-0" Unless noted

Correct
A. J. Dink
Bridge Engineer

Designed by L.M.B.
Drawn by L.M.B.
Traced by H.W.S.
Checked by A.F.P.
Series RC.C.P. No. 2
Sheet of Sheets



REINFORCING STEEL SCHEDULE												GENERAL NOTES:--													
TYPE 1				TYPE 2				TYPE 3				TYPE 4				No.	Description	Units	Total	Final					
WINGS	BARREL			HEADERS AND APRONS			WINGS			BARREL			HEADERS AND APRONS												
No.	Size	Length	Mark	Type	A	B	C	D	No.	Size	Length	Mark	Type	A	B	C	No.	Size	Length	Mark	Type	A	B	C	1- Structure is designed in accordance with AASHTO Specs. HS-20 Loading
1	#4	2'-0"	W402A	STC					1	#4	10'-0"	W402A	STC				2	#4	10'-0"	W402B	STC				2- Barrel shall be placed perpendicular to roadway
2	#4	3'-0"	W402A	STC					2	#4	10'-0"	W402B	STC				3	#4	12'-0"	W402C	STC				3- Maximum depth of fill to be 10 ft
3	#4	8'-0"	W402C	STC					3	#4	12'-0"	W402D	STC				4	#4	12'-0"	W402E	STC				4- Backfill shall be thoroughly compacted granular material
4	#4	8'-0"	W402C	STC					4	#4	12'-0"	W402F	STC				5	#4	12'-0"	W402G	STC				5- Structure shall be built on thoroughly compacted granular material
5	#4	8'-0"	W402C	STC					5	#4	12'-0"	W402H	STC				6	#4	12'-0"	W402I	STC				6- Horizontal bars shall be lapped a minimum of 2'-0" in the barrel
6	#4	8'-0"	W402C	STC					6	#4	12'-0"	W402J	STC				7	#4	12'-0"	W402K	STC				7- Vertical construction joints shall be located at approx. 30 ft intervals
7	#4	8'-0"	W402C	STC					7	#4	12'-0"	W402L	STC				8	#4	12'-0"	W402M	STC				8- Vertical expansion joints shall be located at approximately 90 ft intervals dividing barrel into equal sections
8	#4	8'-0"	W402C	STC					8	#4	12'-0"	W402N	STC				9	#4	12'-0"	W402O	STC				9- For details of construction and expansion joints refer to Vermont Standard Sheet R.C.C.P.-5-71
9	#4	8'-0"	W402C	STC					9	#4	12'-0"	W402P	STC				10	#4	12'-0"	W402Q	STC				10- Maximum grade to be 5.00%
10	#4	8'-0"	W402C	STC					10	#4	12'-0"	W402R	STC				QUANTITIES								
																ITEM DESCRIPTION				UNITS	TOTAL	FINAL			
																TOTAL HEADER STEEL = 177.12 LB.									
																TOTAL HEADER CONCRETE = 8.77 CU.									
																TOTAL APRON STEEL = 675.03 LB.									
																TOTAL APRON CONCRETE = 9.84 CU.									

REVISIONS AND CORRECTIONS

APPROVED: *R.W. Curren*
 CHIEF ENGINEER
E.H. Stedman
 ASST. CHIEF ENGINEER
L.M. Brown
 BRIDGE ENGINEER

REINFORCED CONCRETE CATTLE PASS
 WIDTH 8'-0" HEIGHT 6'-3"
 TO BE USED AT STATION _____
 LOCATION _____

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 STANDARD STRUCTURE
 RCCP-8-71

TOWN OF _____
 ROUTE NO. _____ LOG. STA. _____
 SURVEYED BY _____
 COMPLETED BY _____ CHECKED BY _____
 PROJECT NO. _____
 SHEET _____ OF _____