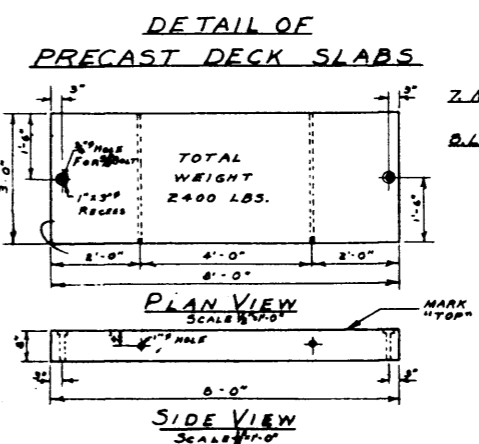
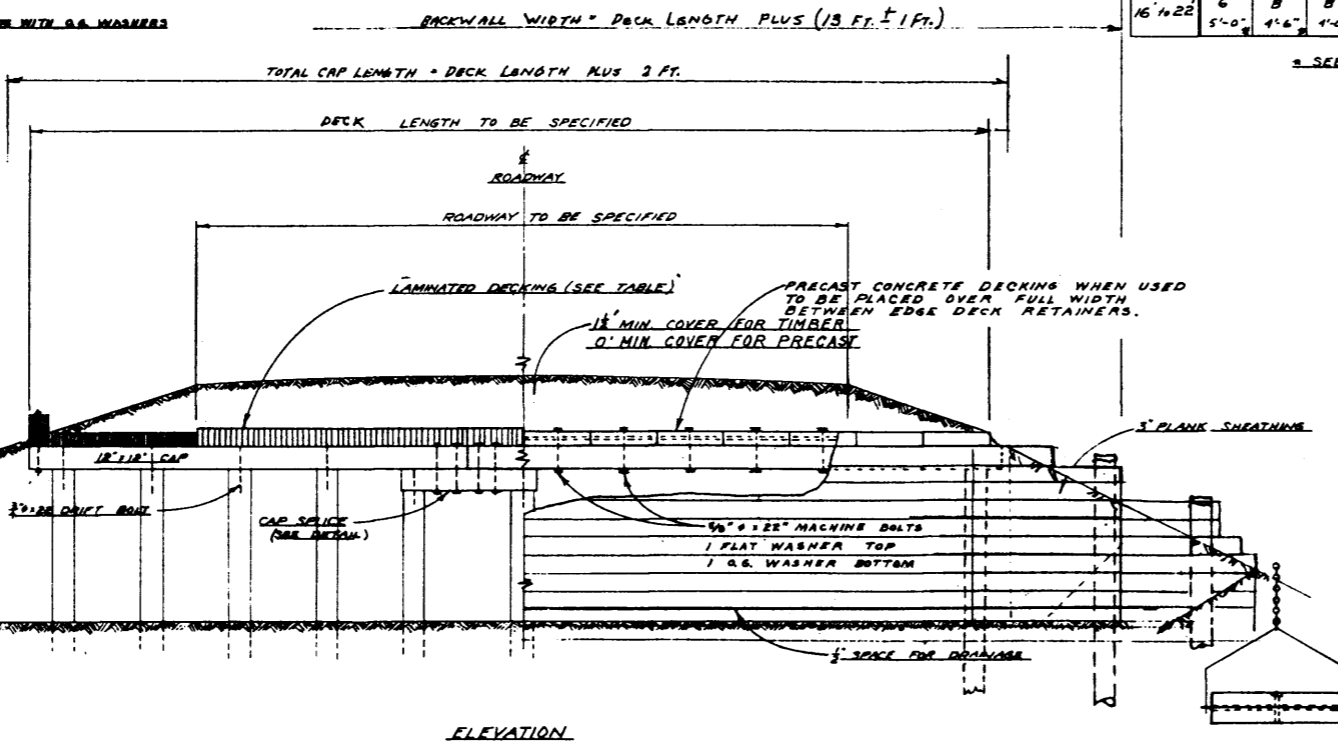
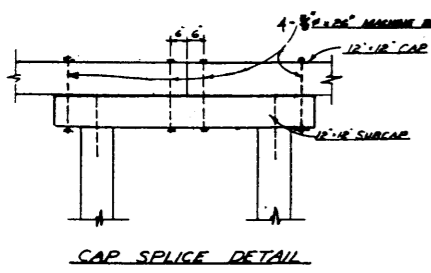


HARDWARE				
TYPE	SIZE	PLACING	QTY	TYPE
MACHINE	1/2\" x 26"	CAP SPLICE	2	O.G.
MACHINE	1/2\" x 34"	RETAINERS	2	O.G.
DRIFT	1/2\" x 22"	CAPS TO PILES		
NAILS	6"	LAMINATED DECK (3")		
NAILS	4"	" (2")		
MACHINE	1/2\" x 22"	PRECAST DECKS	1	FLY O.G.

TIMBER DECK THICKNESS & PILE SPACING												
TOP FIGURE INDICATES DECK THICKNESS IN INCHES												
BOTTOM FIGURE INDICATES PILE SPACING IN FEET												
DEPTH OF COVER IN FEET	CLEAR SPAN IN FEET											
	4	5	6	7	8	9	10	11	12			
up to 3'	4	5	6	7	8	9	10	11	12			
3' to 8'	4	5	6	7	8	9	10	11	12			
8' to 12'	4	5	6	7	8	9	10	11	12			
12' to 16'	4	5	6	7	8	9	10	11	12			
16' to 22'	4	5	6	7	8	9	10	11	12			

- NOTES**
- UNDERPASSES** - Depth of cover on decks in all cases shall be a minimum of 1 1/2 feet and a maximum of 4 feet for underpasses.
 - LAMINATED DECK** - laminated deck *SISIE*. No piece of decking to have more than one splice. Splices to be made only over centreline of caps and shall be staggered. At least every fourth piece of decking to be full span. Each lamination to be toenailed to caps and nailed to adjacent strip at 18" o.c. 4" nails to be used for 2" x 4" decking and 6" nails to be used in 3" laminated decking.
 - BOLT HOLES** - holes for drift bolts and machine bolts to be same diameter as both.
 - TREATMENT OF TIMBER**
 - Pile tops under caps to be coated with three (3) applications of creosote oil and thoroughly covered with roofing pitch.
 - Exposed pile tops to be treated as in (a) and in addition to be covered with 12 ga. galvanized sheet iron, 6" size at least 4" greater in diameter than the pile. The iron shall be neatly trimmed, bent down and fastened to the pile face with galvanized roofing nails.
 - Treated timber to be carefully handled so as to avoid breaking of the outer fibres and bruising or penetrating the surface. Tools to be used only on ends of timbers.
 - All cuts and abrasions in treated timber shall, after careful trimming, be coated with two (2) applications of creosote oil and then thoroughly covered with hot roofing pitch.
 - Bolt holes bored after treatment shall be carefully treated with creosote oil. Any unfilled holes to be sealed with creosoted plugs.
 - PERMISSIBLE FIBRE STRESS** - 1600 psi (coast fir)
 - PILE SPACING** - Piles in abutment rows shall not be spaced at more than 5'-0" c.w.c. for fills of total depth greater than 15' nor spaced at more than 4'-0" c.w.c. for fills of total depth greater than 20'. Pile spacing for precast decks same as for timber decks.
 - MAXIMUM COVER FOR PRECAST DECKS** - to be 15.0 feet.
 - LIFT PRECAST SLABS** only by means of sling hooked to 7/8" bars placed through horizontal holes as illustrated in end view. **IMPORTANT** that slabs be lifted in upright position only.



NO.	DATE	DESCRIPTION	BY
1	MAR. 4/53	WING DETAIL CHANGED	E.J.S.
2	APRIL 16/53	DECK MEN & MUCK TIRE SHOWN	26.L.
3	APRIL 9/52	NO. COVER FOR PRECAST	N/O.
4	SEPTEMBER 19/51	PRECAST DECKING ADDED	26.L.

APPROVED *L. L. Smith*
CHIEF BRIDGE ENGINEER

**STANDARD
PILE CULVERTS
AND UNDERPASSES**

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF PUBLIC WORKS
BRIDGE BRANCH, EDMONTON

FILE NO. _____ HWY. NO. _____
LOCATION _____ SCALE _____
STREAM _____

5-510