FERROCARRILES NACIONALES DE COLOMBIA
DIVISION PACIFICO

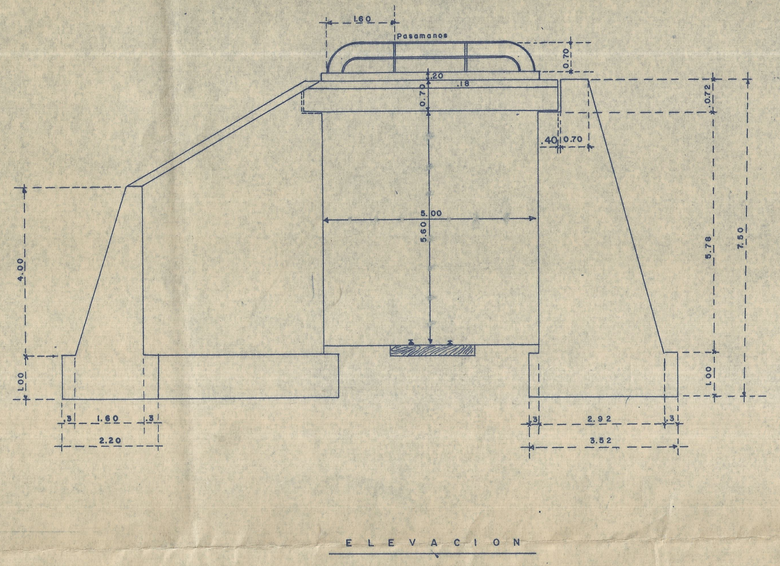
VARIANTE PEREIRA

PASO SUPERIOR PARA LA CARRETERA A MARSELLA Y CALLE 37

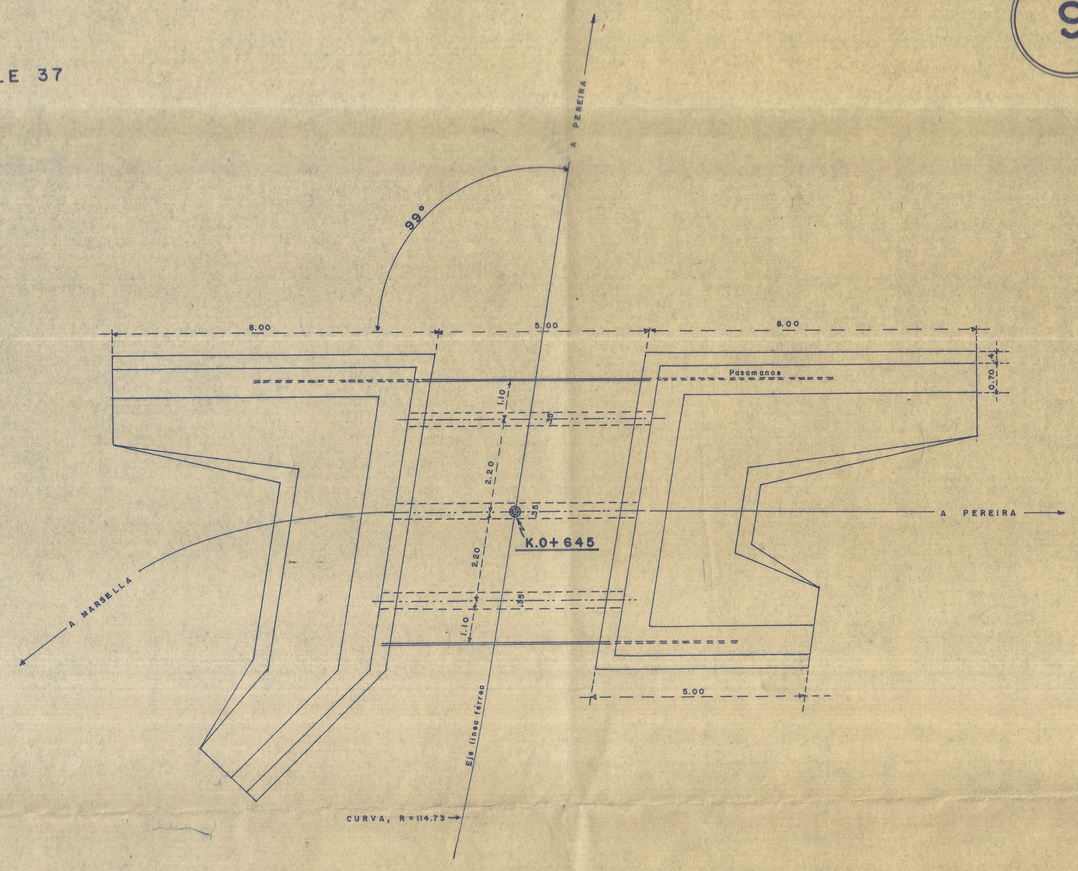
CALI, Abril 1.959

FERROCARRILES NACIONALES
DIVISION PACIFICO
C.S.E.
Vo. Bo. Ing. Interventor
INGENIERO JEFE 3a. ZONA

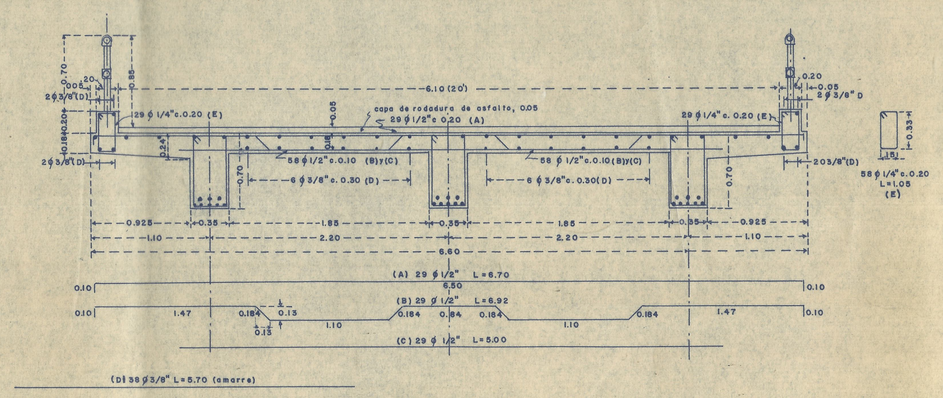
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ELEVACION

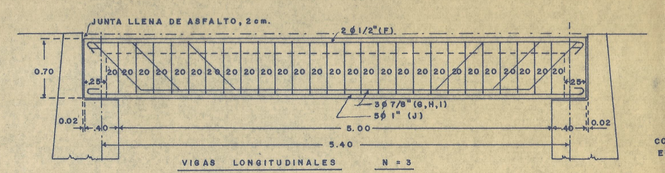


PLANTA ALETAS



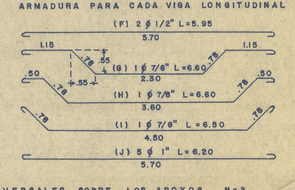
SECCION TRANSVERSAL

SECCION LONGITUDINAL

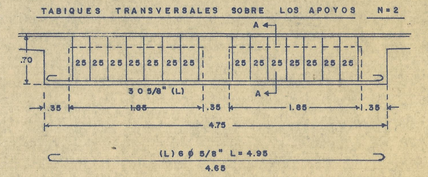


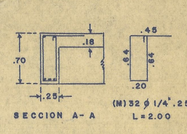
VIGAS LONGITUDINALES N = 3

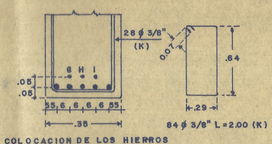
ARMADURA PARA CADA VIGA LONGITUDINAL



TABIQUES TRANSVERSALES SOBRE LOS APOYOS N=2







COLOCACION DE LOS HIERROS EN LAS VIGAS PRINCIPALES

CANTIDADES DE MATERIALES
CONCRETO DE 2000 LBS 11,50 M³

HIERROS

MARCA	Ø	CANT N	LONG L	L x N MTS	SUMA MTS	PESO KGS
E	1/4"	58	1.05	60.90		
M	1/4"	32	2.00	64.00	124.90	31.3
D	3/8"	38	5.70	216.50		
K	3/8"	84	2.00	168.00	384.50	216.0
A	1/2"	29	6.70	194.30		
B	"	29	6.92	200.68		
C	"	29	5.00	145.00		
F	"	6	5.95	35.70	575.68	573.7
L	5/8"	6	4.95	29.70	29.70	46.0
G	7/8"	3	6.60	19.80		
H	"	3	6.60	19.80		
I	"	3	6.50	19.50	59.10	178.5
J	1	15	6.20	93.00	93.00	389.0
				SUMA KGS		1.407.5
				PERDIDAS POR CORTE KGS		140.5
				TOTAL KGS		1548.0