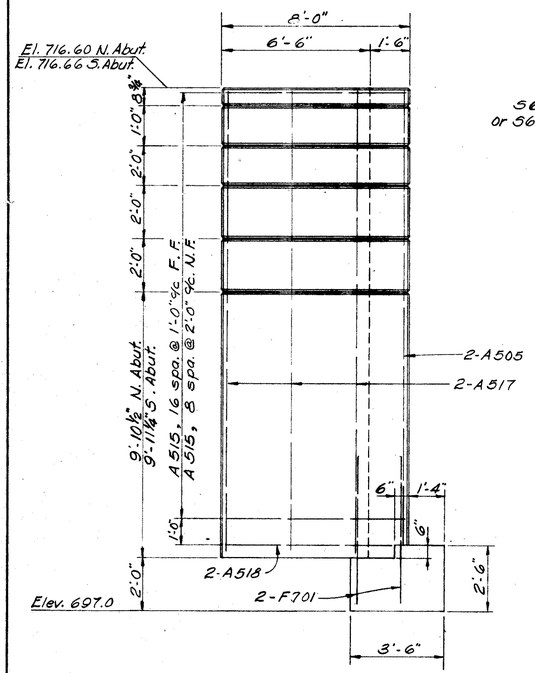
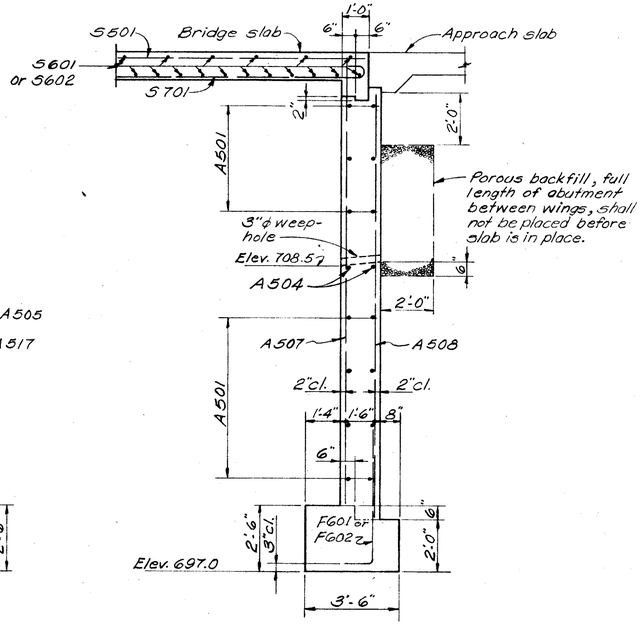
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

6/6

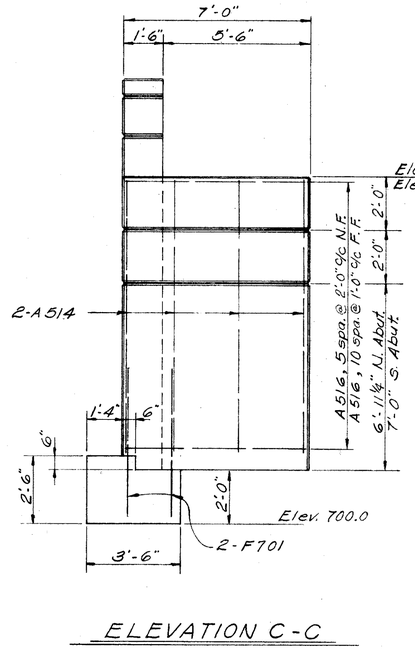
LAKE COUNTY
LAK -528-5.03



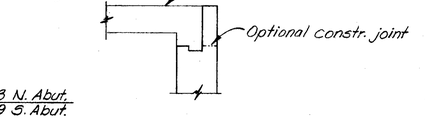
ELEVATION A-A



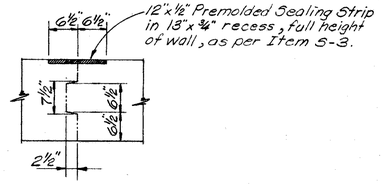
SECTION B-B



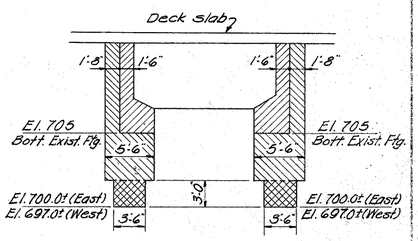
ELEVATION C-C



SECTION D-D



SECTION E-E
(Contraction Joint Detail)



SECTION SHOWING LIMITS OF EXCAVATION QUANTITIES

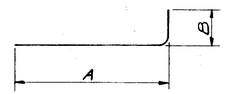
Included with Item S-24
Earth
Shale

REINFORCING STEEL LIST

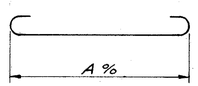
Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	Shp
ABUTMENTS									
A501	62	35'-5	1920						St.
A502	4	10'-5	43						St.
A503	4	14'-11	62						St.
A504	4	18'-9	78						St.
A505	10	16'-11	176						St.
A506	6	17'-5	109						St.
A507	16	16'-5	274						St.
A508	16	16'-0	267						St.
A509	22	13'-5	308						St.
A510	22	13'-0	298						St.
A511	4	31'-0	129						St.
A512	12	2'-6	31						St.
A513	4	11'-9	49						St.
A514	16	10'-3	171						St.
A515	52	8'-11	484	1	7'-7	1'-6			Bf.
A516	34	7'-11	281	1	6'-7	1'-6			Bf.
A517	12	17'-3	216						St.
A518	4	7'-2	30						St.
F601	34	10'-10	553	1	10'-0	1'-0			Bf.
F602	32	6'-4	304	1	5'-6	1'-0			Bf.
F701	40	6'-4	518	1	5'-6	1'-0			Bf.

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	Shp
SUPERSTRUCTURE									
S501	18	17'-8	332						St.
S601	33	24'-10	1231						St.
S602	33	26'-9	1326						St.
S701	118	19'-4	4663	2	17'-8				Bf.
REPLACEMENT STEEL									
RE501	1	5'-7							St.
RE601	1	5'-11							St.
RE701	1	6'-3							St.

BENDING DIAGRAM



Type 1



Type 2

Note: In the reinforcing steel bar marks, the first digit where three digits are used and the first two where four are used is the bar number which indicates the size of the bar.

GENERAL SUMMARY

Item	Total	Unit	Description	Abut.	Superst.	General
E-2	234	C.Y.	Unclassified Excavation for Structures, as per plan	234		
E-8	127	S.Y.	Removal & Disposal of Existing Pavement			127
E-8	40	S.F.	Removal & Disposal of Existing Sidewalk			40
E-2	Lump	Sum	Cofferdams, Cribs, and Sheeting			Lump
T-10	80	C.Y.	Traffic Compacted Surface Course for Maint. Traffic.			80
T-71	62	S.Y.	9" Reinforced Portland Cement Concrete Pavement			62
L-9	100	S.Y.	Seeding and Protecting, as per plan			100
S-1	36	C.Y.	Class "C" Concrete - Superstructure		36	
S-1	138	C.Y.	Class "E" Concrete - Abutment Wall	138		
S-1	44	C.Y.	Class "E" Concrete - Abutment Footing	44		
S-3	26	L.F.	Waterproofing, Premolded Sealing Strip	26		
S-4	13,853	Lbs.	Reinforcing Steel	6,301	7,552	
S-9	15	S.F.	¼" Premolded Expansion Joint Filler			15
S-14	36	L.F.	Railing (Type I-15.13 with angle & galvanized posts & bolts)		36	
S-24	Lump	Sum	Removal of Existing Structure			Lump
S-29	51	C.Y.	Porous Backfill			51
I-7	80	S.Y.	Reinforced Concrete Approach Slabs (T=10")			80
I-13	40	S.F.	4" Concrete Sidewalk			40
I-15	57.75	L.F.	Guard Rail, Steel Beam, Standard Type (deep)			57.75
I-22	11	C.Y.	Subbase, Grading "A" or "B", as per plan			11
M-10	1	Ton	Calcium Chloride Furnished and Applied for Maintaining Traffic			1
Special	Lump	Sum	Construction Layout Stakes			Lump
E-2	58	C.Y.	Shale Excavation	58		

REPLACEMENT BARS
If reinforcing bars are fabricated from stock which has been previously tested and approved by the Ohio Testing Laboratory test samples as provided in Sec. S-4.02 need not be furnished and replacement bars will not be required.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

ABUTMENT DETAILS, STEEL LIST and ESTIMATED QUANTITIES

BRIDGE Nº LAK-528-0503

LAKE COUNTY STA. 9+34.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.W.M.	G.W.M.		S.V.C.			