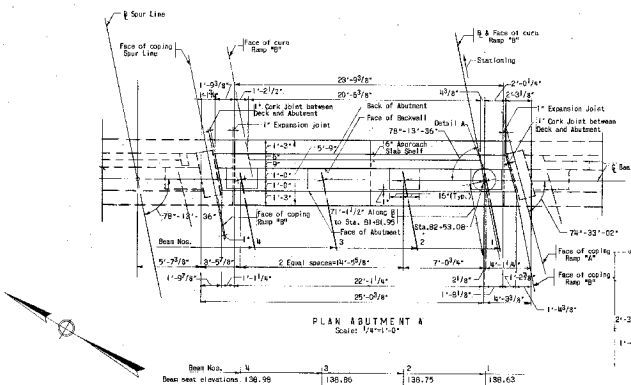
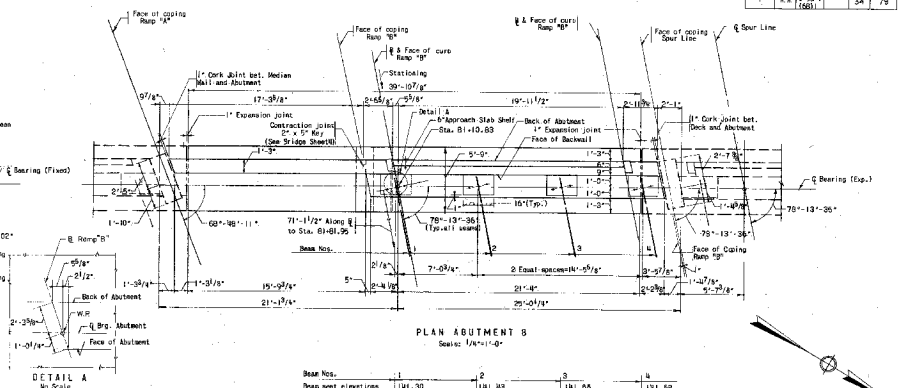
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	I-93-1 (68)		34	79

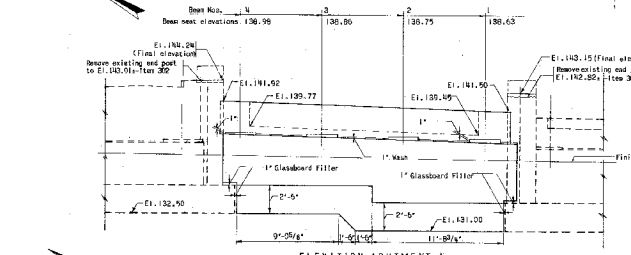


PLAN ABUTMENT A
Scale: 1/4"=1'-0"

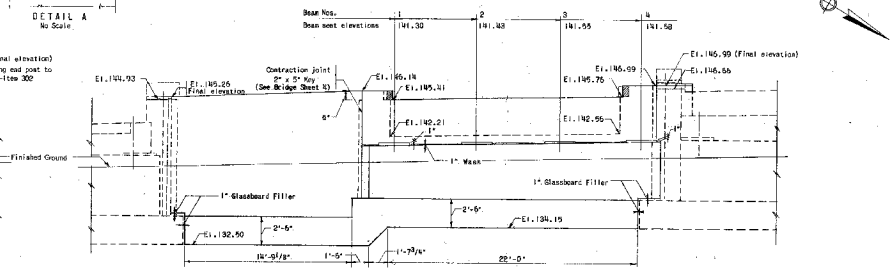


PLAN ABUTMENT B
Scale: 1/4"=1'-0"

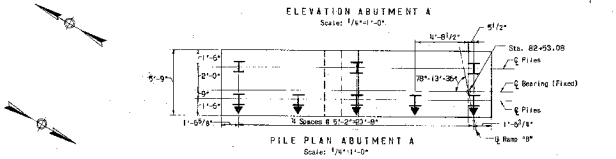
DETAIL A
No Scale



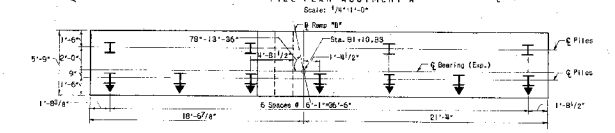
ELEVATION ABUTMENT A
Scale: 1/4"=1'-0"



ELEVATION ABUTMENT B
Scale: 1/4"=1'-0"



PILE PLAN ABUTMENT A
Scale: 1/4"=1'-0"



PILE PLAN ABUTMENT B
Scale: 1/4"=1'-0"

ABUTMENT QUANTITIES

ITEM	DESCRIPTION	UNIT	ABUT. A	ABUT. B	TOTAL
305	Timber Sheet Piling	M.B.M.	1.0	1.6	2.6
172	Lump Structure Excavation	C.Y.	7	7	14
214.1	Gravel for Special Purposes	C.Y.	44	59	100
315	Furnishing Steel Bearing Piles	Lb.	15,120	20,790	35,910
317	Driving Steel Bearing Piles	Lb.	15,120	20,790	35,910
322.1	Concrete Class A (Footings)	C.Y.	16	23	39
322.2	Concrete Class A (Above Footings)	C.Y.	17	28	45
333	Membrane Waterproofing	S.Y.	9	11	20
334	Water Repellent	Gal.	-	5	5
344	Reinforcing Steel	Lb.	2,645	4,466	7,111
362.2	Slope Paving with Concrete Blocks	S.F.	1,100	1,600	2,700

Notes:
1. All piles to be 10BP42, estimated length 45' for Abuts. A & B.
2. ⊢⊣ Indicates piles battered 3 on 12 in direction of arrow.
3. All exposed surfaces of concrete to have a 3/4" chamfer.
4. Piles shall be driven to refusal or as directed by the Engineer.
5. Place as much fill as practicable before driving the piles.
6. Fill in vicinity of piles shall be free from rock.
7. For further foundation notes, see Bridge Sheet 1.
8. Existing structures are shown dotted. Proposed structures are shown solid.
9. Cost of 1" Glassboard Filler is subsidiary to cost of concrete.
10. For Details of Anchor Bolts for Bridge Shoes, See Bridge Sheet 9.

△	DESCRIPTION	BY	DATE

REVISIONS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

TOWN SALEM — BRIDGE NO. 083/061
FEDERAL PROJECT I-93-1(68) — STATE PROJECT P-7252

RAMP B
OVER
POLICY ROAD

ABUTMENTS A AND B

	BY	DATE		BY	DATE	SHEETS PREC. NO.
DESIGNED	S.P.	5-64	CHECKED	K.S.	5-64	3 or 10
DRAWN	R.K.	5-64	CHECKED	S.H.G.	5-64	FILE NUMBER
TRACED	S.H.G.	5-64	CHECKED	K.S.	5-64	19-3-3
QUANTITIES	S.P.	5-64	CHECKED	S.H.G.	6-64	

FED. NO.	SHEET NO.	TOTAL SHEETS
I-93-1(68)	34	79

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
WELLESLEY MASSACHUSETTS