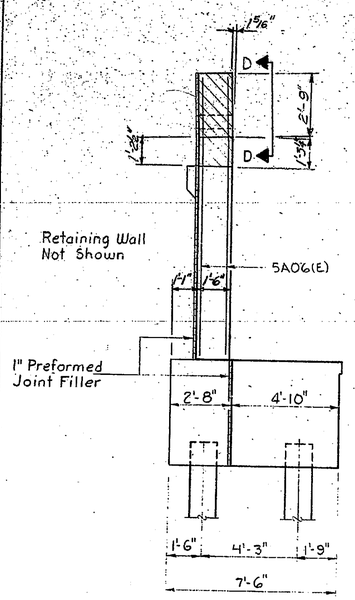
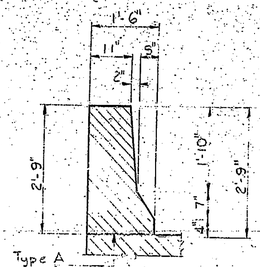
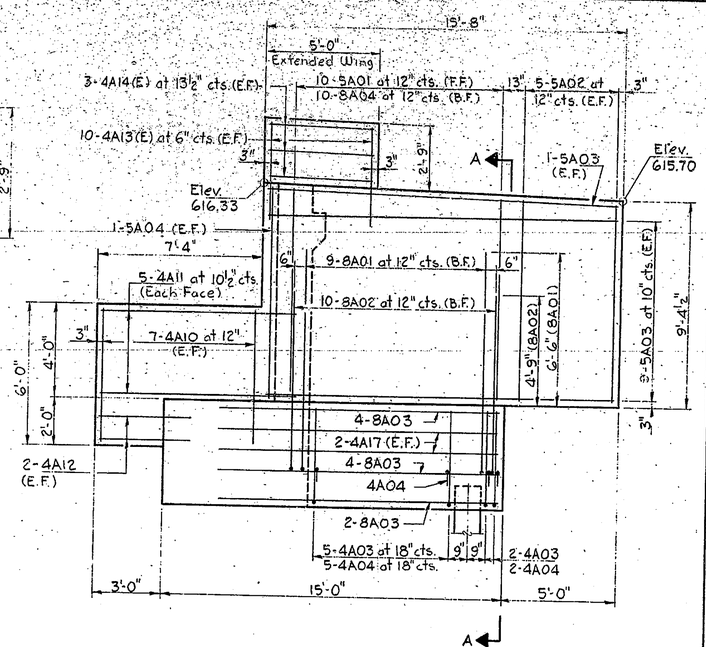


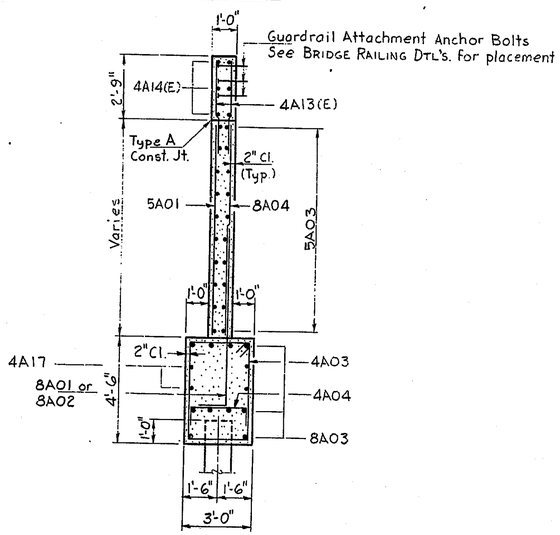
VIEW C-C



VIEW D-D



SOUTH WINGWALL ELEVATION



SECTION A-A

DESIGNED M.M.	C'K'D. D.D.		
DRAWN G.R.	C'K'D. D.D.		
TRACED G.R.	C'K'D. D.D.		

PILE DATA

TYPE: High Capacity (14" ø Steel Encased Concrete)
ESTIMATED LENGTH: 110'
NUMBER REQUIRED: 6
6-Steel Pipe Sleeves required to Elevation 520.

NOTES:

Abutment backwall shall not be constructed until superstructure Post-Tensioning has been completed.

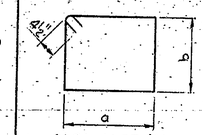
All reinforcement bars shall conform to the requirement of ASTM, Grade 60.

Minimum compressive strength of Substructure Concrete shall be 4,000 p.s.i.

BAR BENDING DIAGRAMS

NOTES:

Number preceding letter denotes bar size.
All dimensions are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.
(E)-Designates epoxy coated bars.

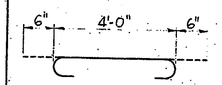


4A01, 4A03, 4A18

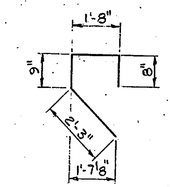
Bar	a	b
4A01	6'-1"	4'-2"
4A03	2'-8"	4'-2"
4A18	7'-2"	4'-2"

4A02, 4A04
4A09(E), 4A19, 4A20

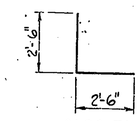
Bar	a	b
4A02	6'-1"	8"
4A04	2'-8"	8"
4A09(E)	1'-2"	8"
4A19	7'-2"	8"
4A20	4'-5"	2'-7"



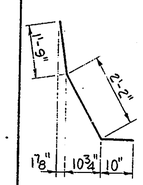
4A07(E)



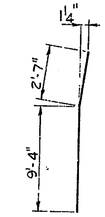
4A08(E)



4A06(E)



5A05(E)



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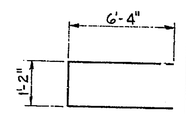
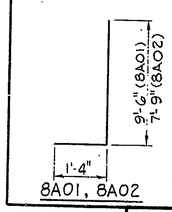
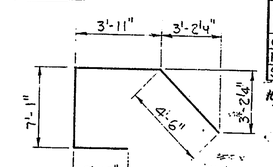


6A01



8A01, 8A02



4A21, 9A02

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4A01	19	21'-3"	●	
4A02	19	7'-5"	●	
4A03	7	14'-5"	●	
4A04	7	4'-0"	●	
4A05(E)	16	28'-0"		●
4A06(E)	8	5'-0"	●	
4A07(E)	8	5'-0"	●	
4A08(E)	27	5'-4"	●	
4A09(E)	29	2'-6"	●	
4A10	14	5'-8"		●
4A11	10	9'-3"		●
4A12	4	3'-9"		●
4A13(E)	20	3'-9"		●
4A14(E)	6	4'-9"		●
4A15	27	3'-0"		●
4A16	4	27'-10"		●
4A17	4	12'-6"		●
4A18	4	23'-5"	●	
4A19	4	8'-6"	●	
4A20	5	9'-7"	●	
4A21	2	18'-4"	●	
4A22(E)	2	26'-6"		●
5A01	10	9'-2"		●
5A02	10	9'-0"		●
5A03	20	15'-4"		●
5A04	2	9'-8"		●
5A05(E)	2	4'-9"	●	
5A06(E)	2	11'-11"		●
6A01	27	13'-10"	●	
6A02(E)	56	9'-2"		●
8A01	9	10'-10"	●	
8A02	10	9'-1"	●	
8A03	10	12'-6"		●
8A04	10	9'-2"		●
9A01	21	27'-10"		●
9A02	3	18'-4"	●	
9A03	3	6'-0"		●

ESTIMATED QUANTITIES

ITEM	UNIT	TOTAL
Reinforcing Steel	Lb.	5285.76
Epoxy Coated Reinforcing Steel	Lb.	1407.66
Substructure Concrete	Cu.Yd.	59.12
Class 'C' Concrete	Cu.Yd.	0.7
High Capacity Piles	Lin.Ft.	660.0
Steel Pipe Sleeves	Lin.Ft.	163.05

10-20-81 Revision Estimate of Quantities.

APPROVED FOR CONSTRUCTION

M.B. Abbott
ABBOTT
Assistant Engineer of Bridge Design
9-17-81

Figg and Muller Engineers Inc.
424 Gaines Street
Tallahassee Florida 32301

ABUTMENT 301 DETAILS & BILL OF MATERIAL

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY-RAMP:-B SECTION:-
SCALE:- ⅜"=1'-0"
DATE:- July 21, 1981
SUBMITTED FOR APPROVAL
Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 319 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWN