FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-IDR-10-1(84)24	1987	1	159 H

INDEX TO SHEETS

—CONTINUES ON SHEET 1-A—

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
PROJECT NO. I-IR-IDR-10-1(84)24
MOBILE COUNTY
ON I-10 STA. 540+00 TO STA. 660+06.82

SCALES: PLAN 1 INCH = 100 FT.
PROFILE HORIZ. 1 INCH = 100 FT. VER. 1 INCH = 5 FT.
LAYOUT, 1 IN. = 5,280 FT.

REMOVAL & REPLACEMENT OF CONCRETE PAVEMENT, ADDITIONAL LANES INSIDE & OUTSIDE, MODIFICATION OF SIGNS, LIGHTING & BRIDGE WIDENING

CONVENTIONAL SIGNS

- STATE AND NATIONAL LINE
- COUNTY LINE
- CITY OR TOWN BOUNDARY
- FENCE LINE: WOOD, BARBED WIRE, CHAIN LINK
- STONE WALL
- NATIONAL FOREST BOUNDARY
- MILITARY RESERVATION BOUNDARY
- EXISTING CULVERT
- PROPOSED CULVERT
- BRIDGE
- NAVIGABLE STREAMS (NAV)
- SHIP AND BARGE LINE
- INTRA-COASTAL WATERWAY (I.C. WATERWAY)
- POWER POLE
- TELEPHONE OR TELEGRAPH POLE
- MARSH
- FAP OR FAS ROUTE
- RAILROAD
- RIGHT OF WAY LINE
- PROPERTY LINE
- LEVEE
- GUARD RAIL
- PROJECT CENTER LINE

IN PLACE I-OVER BRIDGES (TO BE WIDENED)

BEGIN STA. 555+41.45 TO END STA. 558+71.29 DUAL BRIDGES—329.84 LIN. FT (BROAD ST.) ④
BEGIN STA. 591+16.85 TO END STA. 593+52.66 DUAL BRIDGES—235.81 LIN. FT (TENN. ST.) ⑤
BEGIN STA. 597+19.36 TO END STA. 598+81.05 DUAL BRIDGES—161.69 LIN. FT. (WARREN-LAWRENCE ST.) ⑥
BEGIN STA. 607+73.22 TO END STA. 609+51.33 DUAL BRIDGES—178.11 LIN. FT. (VIRGINIA ST.) ⑦
BEGIN STA. 621+66.47 TO END STA. 623+43.66 DUAL BRIDGES—177.19 LIN. FT. (TEXAS ST.) ⑧

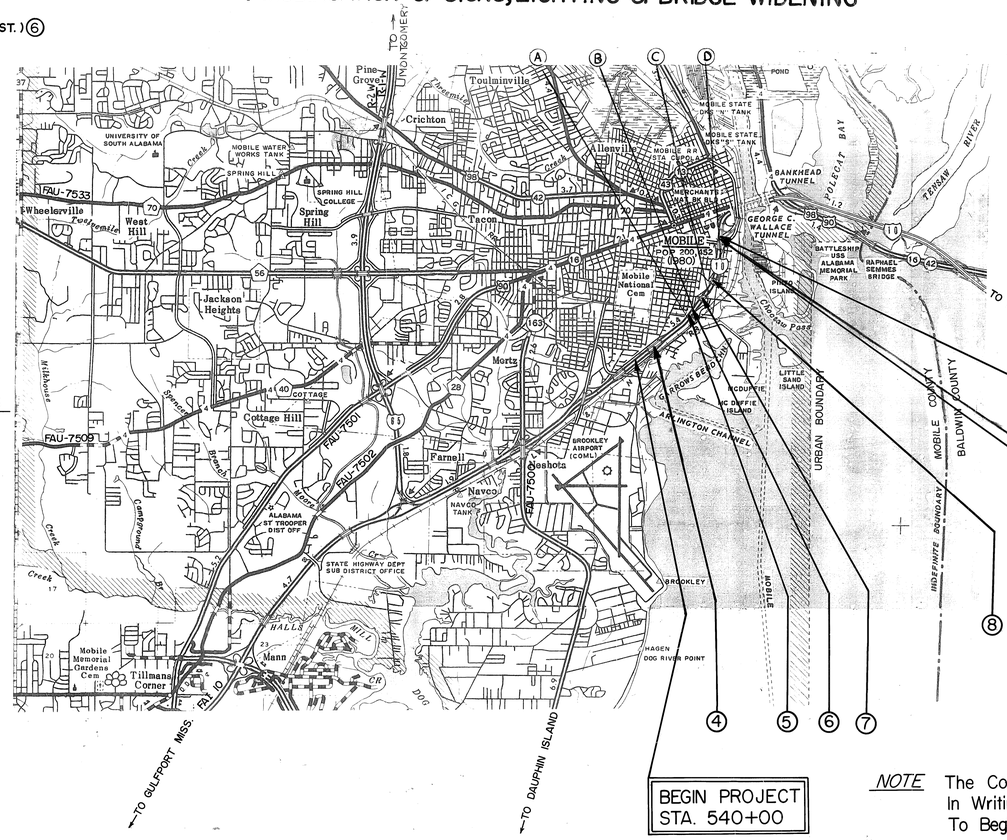
TOTAL EFFECT = 1082.64 LIN. FT.

"EQUATIONS"

Ⓐ STA. 590+86.21 BK = STA. 590+84.08 AH = 2.13 LIN. FT.
Ⓑ STA. 597+11.86 BK = STA. 597+11.68 AH = 0.18 LIN. FT.
Ⓒ STA. 614+67.29 BK = STA. 614+66.60 AH = 0.69 LIN. FT.
Ⓓ STA. 640+39.22 BK = STA. 646+50.00 AH = -610.78 LIN. FT.

TOTAL EFFECT = — 607.78 LIN. FT

NO "EXCEPTIONS"



BEGIN PROJECT STA. 540+00

END WORK STA. 48+00 WBR

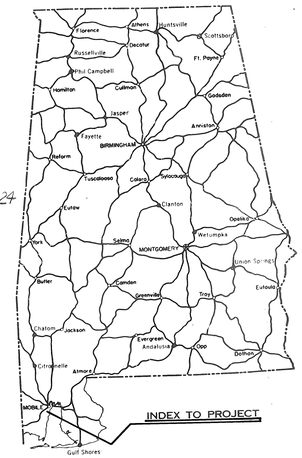
STA. 660+06.82 BK = 45+90.13 WBR AH

END PROJECT STA. 660+06.82

NOTE: PROJECT I-IR-IDR-10-1(84) 24 AND PROJECT I-IR-IDR-10-1(83) 20 ARE TO BE LET IN THE SAME CONTRACT.

NOTE: The Contractor Shall Notify The Railroad In Writing 10 (Ten) Days Before Work Is To Begin On This Project.

NOTE THE PROJECT NO. I-IR-IDR-10-1(84)24 AS INDICATED ON SHEET NO. 1 IS THE CORRECT IDENTIFICATION FOR THESE PLANS. IT SHALL BE UNDERSTOOD THAT THIS NUMBER SUPERSEDES PROJECT NO I-IR-10-1(84)24 AS LISTED ON SHEET 1A THROUGH 159H



DESIGN	DESIGNATION
A D T (1987)	53,000
A D T (2007)	93,300
K	10%
D	55%
T ADT	11%

V = 50 MPH (DESIGN SPEED)
ACTUAL MINIMUM STOPPING SIGHT DISTANCE = N/A

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM WITH ALABAMA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS DATED 1985.

SUBMITTED FOR APPROVAL

CHIEF ENGINEER
STATE OF ALABAMA HIGHWAY DEPARTMENT

APPROVED

HIGHWAY DIRECTOR
STATE OF ALABAMA HIGHWAY DEPARTMENT

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE

TOTAL STATIONING OF PROJECT	12,006.82 FT.	
EQUATIONS AND EXCEPTIONS	- 607.78 FT.	
NET LENGTH OF PROJECT	11,399.04 FT.	= 2.158 MI.
NET LENGTH OF BRIDGES	1,082.64 FT.	= 0.205 MI.
NET LENGTH OF ROADWAYS	10,316.40 FT.	= 1.953 MI.

PRELIMINARY PROJECT NO. I-IR-10-1(84)
CODE NO. 4311-109-_-36-010-001-075-472-2

INDEX TO SHEETS CONTINUED

FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	1A	159-H

SHEET NO.	LISTING
" " 9	OMIT
" " 10	OMIT
" " 11	OMIT
" " 12	PAVING LAYOUT STA. 535+50 TO STA. 550+00
" " 13	PAVING LAYOUT STA 550+00 TO STA 566+00
" " 14	" " " 566+00 TO STA. 582+00
" " 15	" " " 582+00 TO STA. 595+00
" " 16	" " " 595+00 TO STA. 611+00
17	" " " 611+00 TO STA. 625+00
18	" " " 625+00 TO STA. 640+00
19	" " " 640+00 TO STA. 660+00
20	OMIT
21	OMIT
22	OMIT
23	OMIT
24	OMIT
25-25I	UTILITY SHEETS
26-26G	DRAINAGE SHEETS
27-27R	BRIDGE SHEETS OVER BROAD STREET
28-28U	BRIDGE SHEETS OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD
29-29U	BRIDGE SHEETS OVER WARREN-LAWERENCE CONNECTOR
30-30W	BRIDGE SHEETS OVER VIRGINIA STREET
31-31Y	BRIDGE SHEETS OVER TEXAS STREET
32-32A	TEST BORING RECORD
33	INTERIOR JOINT REPAIR
34-34U	LIGHTING DETAILS
P 35-35R	TRAFFIC STRIPING LAYOUT AND SIGN LAYOUT
36	OMIT
37	DETAIL FOR MOUNTING WARNING SIGNS ON MEDIAN BARRIER
38	SPECIAL PROJECT DETAIL BARRIER WITH LUMINAIRE MOUNTING DETAILS
39	OMIT
40	SPECIAL DWG. NO. BES-450-0 DETAILS OF BRIDGE END SLAB
41	" " " GR-630-FD FLARE DETAIL AND WARRANTY CRITERIA FOR GUARDRAIL
42	" " " GR-630-S GALVANIZED STEEL BEAM GUARDRAIL
43-43B	" " " RPC-530 (3-SHEETS) DETAILS OF BEDDING OF PIPE
44	" " " GA-630-8 DETAILS OF TYPE 8 GUARDRAIL END ANCHORS
45	" " " GA-630-10 DETAILS OF TYPE 10 GUARDRAIL END ANCHORS
46	" " " GA-630-13 DETAILS OF GUARDRAIL END ANCHOR TYPE 13
47-47A	" " " GR-9A & GUARDRAIL END ANCHOR TY 3 (FOR INFORMATION PURPOSE ONLY)
48	" " " PU-606 DETAILS FOR PIPE UNDERDRAIN INSTALLATION
49	" " " 197-4L M SUPERELEVATION OF CURVES FOR FOUR (4) LANE HIGHWAYS
50	" " " PM-705-1 PAVEMENT MARKERS
51	" " " IHS-710-14 HIGHWAY SIGN MOUNTING FOR STANDARD SIGNS
52	" " " B-107-1 BARRICADES TYPE I, TYPE II AND TYPE III
53	" " " LCS.-107 REQUIREMEMENTS FOR LIGHTING CONSTRUCTION SIGNS
54	" " " T.C.D. 100 DETAILS FOR TRAFFIC CHANNELIZING DEVICES
55	" " " T.C.M. 703 PAVEMENT LEGENDS AND MARKINGS
56	" " " P.M.-705-2 APPLICATION OF PAVEMENT MARKERS
57-57A	" " " P.M.-705-3 REFLECTORIZED MARKINGS
58	OMIT
59	OMIT
60	SPECIAL DWG. NO. ECN-659 EROSION CONTROL NETTING
61	" " " IPS-701-8 TRAFFIC STRIPING AUXILIARY LANES AND RAMPS
62	" " " IPS-701-5 TRAFFIC STRIPES FOR 6 LANE RURAL HIGHWAYS WITH PAVED SHOULDERS
63	OMIT
64	OMIT
65	SPECIAL DWG. NO. 623-XY DETAILS OF CONCRETE CURBS & CONCRETE CURB & GUTTER MOUNTABLE & BARRIER TYPES
66	" " " B-614 SLOPE PAVING ON SLOPES UNDER SEPARATION BRIDGES
67	" " " CPJ-450 PLAIN AND REINFORCED CEMENT CONC. PAVT. AND BRIDGE END SLAB JOINTS
68	" " " NC-623 GORE AT TERMINALS OF ENTRANCE & EXIT RAMPS. RURAL OR URBAN SECTIONS
69	" " " IPS-10(S.C.) DETAILS SHOWING NOSE GORE REQUIRED ADJACENT TO RECOVERY LANE & REQUIRED ADJACENT TO RECOVERY LANE
70	" " " GTE-629 CONCRETE MEDIAN BARRIER TYPE 6-A FOR USE WITH G-R-E-A-T SYSTEM (PORTABLE)
71	" " " GR-630-PP DETAIL OF GUARDRAIL FOR BRIDGE PIER PROTECTION ON EXISTING PROJ WITH SLOPES GREATER THAN 10:1
72	" " " J.B.-621-P PRE-CAST JUNCTION BOX-TYPE IP, 2P & 5
73	" " " PNJB-629 PRE-CAST CONCRETE BARRIER TYPE-6
74-74A	" " FE-619 DETAIL OF CONCRETE FLARED END SECTION W/GRATE FOR CONCRETE AND METAL PIPE
75	" " " S.W.-618 DETAILS OF SIDEWALKS
76	SPECIAL PROJECT DETAIL - STEEL PLATE ON CONC. MEDIAN BARRIER
77-77A	SPECIAL PROJECT DWG (2-SHTS) WIND VELOCITY CHART
78	SPECIA PROJECT DETAIL INLET TYPE E3 AND E4 FOR USE WITH CONC. MEDIAN BARRIER
79	" " " CONC MEDIAN BARRIER TREATMENT UNDERPASS PIERS
80	" " " DETAILS SHOWING LOCATION OF BASE PLATES & REQ'D JOINT FOR OVERHEAD SIGN SUPPORT TY.5 MEDIAN BARRIER
81	SPECIAL DWG. NO. 710-2 BEAM POST DETAILS BASE CONN. TY-1 FUSE PLATE
82	SPECIAL DWG. NO. CC-530 DETAILS OF CONC. COLLAR
83	" " " SS-654 SOD TERRACE OUTLETS & FLUMES
84	" " " EC-665-F DETAILS OF SILT FENCE
85	SPEC. DETAIL DETAILS OF TY. 2 MOD, TY. 4A MOD. CONC. BARRIER & TRANSITION ALSO DETAIL OF TY. 10 MOD. CONC. BARRIER
86	SPEC DWG NO. 710-3 BEAM POST DETAILS BASE CONN. TY-2 FUSE PLATE
87-87H	STD. DWG. NO. BRIDGE STANDARDS --- BGN-1, PSCP-1, TP1 2SHEETS, I-100, I-131 3SHEETS, LPS-1
88-88Z/D	BRIDGE PLAN SHEETS FOR INFORMATION PURPOSES ONLY
89-89-H	STANDARD HIGHWAY SIGNS - 1-9-10-11-21-22-23-24-25
90	SPEC. DWG. NO. I.F.-634 -- INDUSTRIAL FENCE
91	" " " C.S.P.-532 DETAILS OF CORRUGATED SLOTTED DRAIN PIPE 12"-30" DIAMETER
92	" " " JB-620-B DETAILS OF JUNCTION BOX FOR PIPES 15"-60" TYPE I (0'-10' FILL HEIGHT)
93-93B	" " " I.H.S.-710-4 (3-SHTS) MULTI-DIRECTIONAL BREAKAWAY BASE
94	" " " I.H.S.-710-11 ALUMINUM LAMINATED SIGNS
95	" " " IA-720-G DETAILS OF G-R-E-A-T SYSTEM-IMPACT ATTENUATOR
96	" " " IHS-710-24 MOUNTING FLAT SHT. ALUM. SIGNS ON EXTRUDED ALUMINUM STIFFENERS
P 97	" " " MP-710 DETAILS FOR MILEPOST ON 2 LANE OR 4 LANE HIGHWAY
98-125I	CROSS SECTIONS EBR STA. 541+50 ~ 660+19
125J-125K	OMIT
126-148	CROSS SECTIONS WBR STA 540+00 ~ 597+25.70
149-159F	CROSS SECTIONS WBR STA. 609+18.44 ~ 653+00
159G	CROSS SECTIONS MEDIAN STA. 655+50 ~ 660+00
159-H	SPEC. DWG NO. IHS-710-19 DETAILS OF MOUNTING SIGN ON ROUND BREAKAWAY POST

P Add STD DWG 9/3/87.

BRUNING 58051

FHWA REG.NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	I-IR-10-1(E4)	1987	3-A	159 H

SUMMARY OF QUANTITIES

BRIDGE		ROADWAY		
I-FUNDS	IR-FUNDS	I-FUNDS	IR-FUNDS	TOTAL
			2313	2313
			3223	3223
		50	50	100
		476	4272	4748
		1500	500	2000
		5050	4605	9655
213100	515250			728350
2	8			10
	2			2
2	6			8
2	8			10
	2			2
2	6			8
3402	10235			13637
	2005			2005
5213	13325			18538
34830	113120			147950
1	1			2
893	2249			3142
1				1
	1			1
1				1
	1			1
	1			1
	1			1
	1			1
	1			1
	1			1
	4689			4689
1379	1379			2758
	49			49
		16	402	418
			77	77
			3	3
			42	42
		84	180	264
		4290	5616	9906
		0.22	0.28	0.50
		5628	6416	12044

ITEM NO.	UNIT	DESCRIPTION
416A-003	TON	BITUMINOUS CONCRETE WEARING SURFACE (MIX B)
416C-000	TON	BITUMINOUS CONCRETE PLANT MIX, LEVELING
416D-000	TON	BITUMINOUS CONCRETE PLANT MIX, WIDENING
420A-001	TON	OPEN GRADED PLANT MIXED SEAL (MIX B)
430B-001	TON C I P	AGGREGATE SURFACING (PROCESSED REEF SHELLS)
450B-000	SQ YD	REINFORCED CEMENT CONCRETE BRIDGE END SLAB
502A-000	POUND	STEEL REINFORCEMENT
505A-000	EACH	STEEL TEST PILES (HP 10X42)
505A-005	EACH	PRETENSIONED-PRESTRESSED CONCRETE TEST PILE (12 INCHES SQUARE)
505A-006	EACH	PRETENSIONED-PRESTRESSED CONCRETE TEST PILE (14 INCHES SQUARE)
505B-000	EACH	LOADING TESTS (HP 10X42)
505B-005	EACH	LOADING TESTS (12 INCHES SQUARE)
505B-006	EACH	LOADING TESTS (14 INCHES SQUARE)
505C-000	LIN FT	STEEL PILING (HP 10X42)
505C-005	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE PILING (12 INCHES SQUARE)
505C-006	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE PILING (14 INCHES SQUARE)
508A-000	POUND	STRUCTURAL STEEL
508C-030	SET	BEARING PLATES BRONZE (ONE SET CONSISTS OF 30 PLATES)
510A-000	CU YD	BRIDGE SUBSTRUCTURE CONCRETE, CLASS A
510C-000	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 555+41.45, APPROX. 867 CU. YDS. -(INSIDE WIDENING)
510C-001	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 555+41.45, APPROX. 769 CU. YDS. -(OUTSIDE WIDENING)
510C-002	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 366 CU. YDS. -(INSIDE WIDENING)
510C-003	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 319 CU. YDS. -(OUTSIDE WIDENING)
510C-004	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 262 CU. YDS. -(INSIDE WIDENING)
510C-005	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 147 CU. YDS. -(OUTSIDE WIDENING)
510C-006	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 289 CU. YDS. -(INSIDE WIDENING)
510C-007	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 182 CU. YDS. -(OUTSIDE WIDENING)
510C-008	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 621+66.47, APPROX. 249 CU. YDS. -(INSIDE WIDENING)
510C-009	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 621+66.47, APPROX. 255 CU. YDS. -(OUTSIDE WIDENING)
513B-004	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE II (SPECIALTY ITEM)
513B-005	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE III (SPECIALTY ITEM)
523B-000	EACH	LIFTING BEARING
530A-001	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.)
530A-101	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-102	LIN FT	24" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-105	LIN FT	42" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-200	LIN FT	15" ROADWAY PIPE (14 GAUGE C.C.S.P.I.)
532A-001	LIN FT	15" B.C.C.S. SLOTTED DRAIN PIPE
600A-000	LUMP SUM	MOBILIZATION
606A-005	LIN FT	6" UNDERDRAIN PIPE, TYPE 9

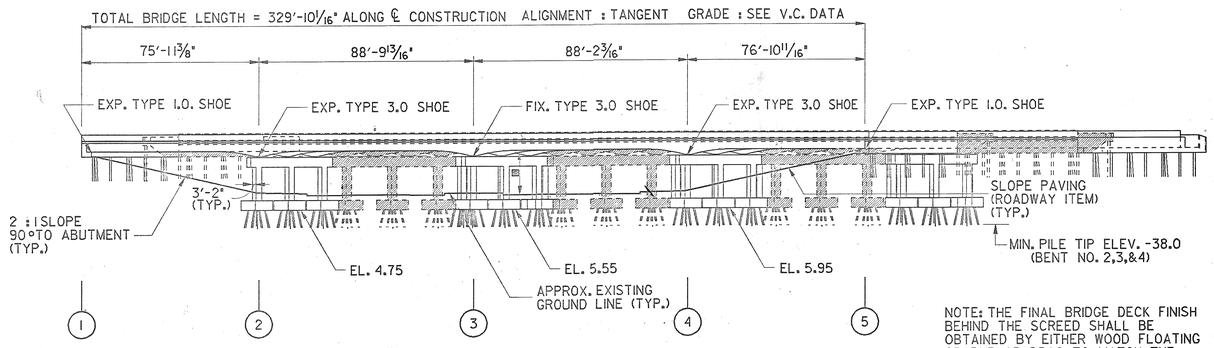
FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	3-K	159H

SUMMARY OF QUANTITIES
PROJECT NO. I-IR-10-1(84)
MOBILE COUNTY

REQUIRED WIDENING AND PARTIAL REMOVAL OLD R.C.D.G. BRIDGES

	STATION	SIDE	℄ LENGTH LIN. FT.	206A REMOVAL OF OLD BRIDGE LUMP SUM	215A UNCLASSIFIED BRIDGE EXCAVATION CU. YD.	502A STEEL REINFORCEMENT LB.	505A STEEL TEST PILE (HP10X42) EACH	505A PRETENSIONED-PRESTRESSED CONC TEST PILES (EACH) 12"SQ	14"SQ	24"SQ	505B LOADING TEST (HP 10X42) EACH	505B LOADING TEST (EACH) 12"SQ	14"SQ	24"SQ	505C STEEL PILING (HP 10X42) LIN FT	505C PRETENSIONED-PRESTRESSED CONC PILING (LIN FT) 12"SQ	14"SQ	24"SQ	508A STRUCTUAL STEEL LB	508C BEARING PLATES BRONZE SET	30		510A 501A BRIDGE SUBSTRUCTURE CONC CL A. CU YDS	510-C REINFORCED BRIDGE CONC. SUPERSTRUCTURE LUMP SUM	513B PRETENSIONED PRESTRESSED CONCRETE GIRDERS TYPE II	513B PRETENSIONED PRESTRESSED CONCRETE GIRDERS TYPE III	STD DWG NO.'S
I-FUNDS	555+41.45	206A-50		1	755	141,400	1		1		1		1		2,250		3988		22,130		1		595	1 @ 867 c.y.			
	591+16.85	206A-52		1	340	71.700	1		1		1		1		1152		1225		12,700				298	1@ 366 c.y.		1379	
				1	1095	213100	2		2		2		2		3402		5213		34830		1		893	1		1379	
IR-FUNDS	555+41.45	206A-51		1	755	136,900	1		1		1		1		2340		3988		26,480		1		581	1@ 769			
	591+16.85	206A-53		1	450	81200	1		1		1		1		1440		1627		16110				336	1@ 319 c.y.		1379	
	597+19.36	INSIDE		1	300	52,550	1	1			1	1			946	1203			12,300				248	1@ 262 c.y.	938		
	597+19.36	OUTSIDE		1	190	26000	1	1			1	1			637	802			10690				134	1@ 147 C.Y.	313		
	607+73.22	INSIDE		1	290	60,500	1		1		1		1		1344		1907		12,600				258	1@ 289	1032		
	607+73.22	OUTSIDE		1	193	31500	1		1		1		1		672		1271		10530				134	1@ 182	344		
	621+66.47	INSIDE		1	259	58,500	1		1		1		1		1344		1936		9200				258	1@ 249	1030		
	621+66.47	OUTSIDE		1	235	68 100	1		1		1		1		1512		2596		15210				300	1@ 255	1032		
				1	2672	515250	8	2	6		8	2	6		10235	2005	13325		113120		1		2249	1	4689	1379	

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27	157H



ELEVATION (W.B.L.)

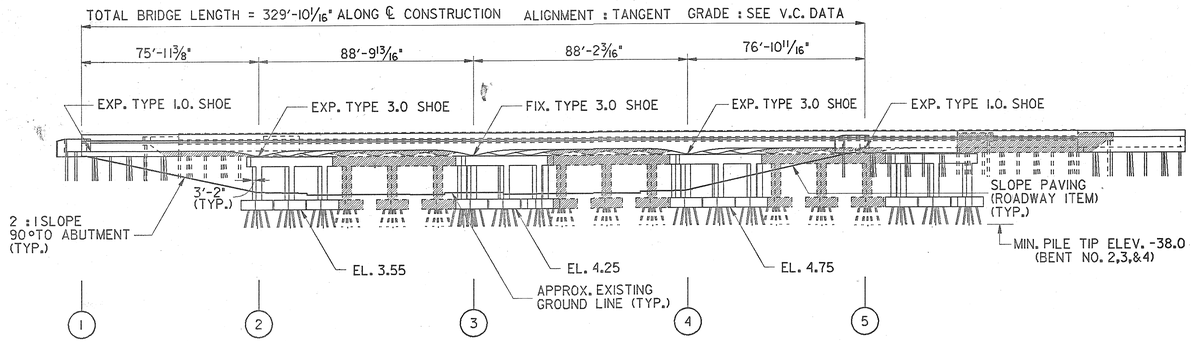
(LOOKING NORTH)
SCALE: 1" = 30'

⊞ MINIMUM VERTICAL CLEARANCE ON BROAD STREET:
16'-3" EXISTING
15'-2" PROPOSED
SEE PLAN VIEW ON BR. SHT. 2 FOR LOCATION

NOTE: THE FINAL BRIDGE DECK FINISH BEHIND THE SCREED SHALL BE OBTAINED BY EITHER WOOD FLOATING OR BURLAP DRAG TO MATCH THE EXISTING DECK FINISH.

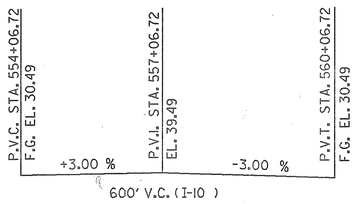
NOTE: EXIST. BRIDGE IS INDICATED BY DASHED LINES & CROSS-HATCHED AREAS. (TYP. ALL BRIDGE SHTS.)

NOTE: THE EXIST SHOE ASSEMBLY FOR ALL ABUTMENTS & ALL BENTS SHALL BE SANDBLASTED & PAINTED IN ACCORDANCE WITH SUBARTICLE 521.03(c) OF THE STD. SPECIFICATIONS. COST SHALL BE INCLUDED IN OTHER PAY ITEMS.



ELEVATION (E.B.L.)

(LOOKING NORTH)
SCALE: 1" = 30'



VERTICAL CURVE DATA (I-10)

BRIDGE GENERAL NOTES

SEE STANDARD DRAWING NO. BGN-1 (1 SHEET)
ROADWAY: 71'-8 1/16" (WESTBOUND) AND 71'-8 1/16" (EASTBOUND) GUTTER TO GUTTER WITH BARRIER RAIL.

1
2 - HS20-44 AND ALTERNATE LOADING PPM20-4, DATED 8-10-56.
5 - ABUTS.-35 TONS; BENTS-55 TONS.
7
11
13
15
16
18
19
24
25

ESTIMATED QUANTITIES

SEE BRIDGE SHT. 1-A OF 18

SPECIAL NOTE REGARDING EPOXY ADHESIVES

PRIOR TO PLACING NEW CONC. AGAINST ANY BROKEN OR SCARIFIED SURFACE, A TYPE II EPOXY ADHESIVE SHALL BE APPLIED TO THE ROUGHENED CONC.

ALL DOWEL BARS PLACED IN EXIST. CONC. SHALL BE SET W/ A TYPE I, GRADE 1 EPOXY ADHESIVE.

SEE SECTION 870, EPOXY ADHESIVES, OF THE STANDARD SPECIFICATIONS.

** TRAFFIC PROTECTORS WILL ONLY BE REQUIRED UNDER THE NEW CONST. AREAS. (5'-0" MIN. OUTSIDE OF THE LIMITS OF NEW CONST.)

SPECIAL NOTES

1. TEMPORARY BARRIER RAILS SHALL BE ERECTED CONCURRENT W/ REMOVAL OF EXIST. DECK, CURB, & HANDRAIL.
2. THE TOP OF EXIST. DECK SLAB SHALL BE SAWED A MIN. OF 1/2", MAX. OF ONE (1) INCH DEEP ALONG BREAKLINE PRIOR TO REMOVING THE SUPERSTRUCTURE CONCRETE.
3. ALL PLAN ELEVATIONS & DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND ANY NECESSARY ADJUSTMENTS MADE PRIOR TO ORDERING ANY MATERIAL.

REQUIRED

1. WIDENING 75'-11 3/8", 88'-9 13/16" 88'-2 3/16", 76'-10 11/16" R.C.D.G. CONT. SPAN ___ BR. SH. NO. 1 THRU 13
2. WIDENING CONCRETE BENTS (PILE FTGS.) _____ BR. SH. NO. 14 THRU 15
3. WIDENING CONCRETE AND STEEL PILE ABUTMENTS _____ BR. SH. NO. 16 THRU 18

EXIST. ORIGINAL BRIDGE PLANS _____ BR. SH. NO. E1 THRU E7
BRIDGE GENERAL NOTES _____ STD. DWG. BGN-1 (1 SHT.)
TEST BORING RECORD _____ BR. SHT. NO. 1A OF 3A
STANDARD DETAILS _____ STD. DWG. I-131 (3 SHTS.)
BEARING ASSEMBLIES _____ STD. DWG. I-100
** TRAFFIC PROTECTION _____ STD. TP-1 (2 SHTS.)
REINFORCED CONCRETE BRIDGE END SLAB _____ SPECIAL DWG. NO. BES-450-0
LIGHT POLE SUPPORT ------- STD. DWG. LPS-1

I CERTIFY THAT CHECKS OF (1) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION

BARGE, WAGGONER, SUMNER, & CANNON

Jack L. Wood 6-12-87

TITLE SENIOR VICE-PRESIDENT — DATE

ALABAMA REGISTERED PROFESSIONAL NO. 12008 ENGINEER JACK L. WOOD

Alabama Reg. Engineer No. 12008

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 1 OF 18

REVISIONS

APPROVED:

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

GENERAL ELEVATION

SECTION SUPERVISOR	SCALE:	DESIGNED: WAP	QUANTITIES	DATE
William J. McAteer, CHIEF BRIDGE DESIGN ENGINEER	AS SHOWN	DRAWN: B.W.S.C. CAD/D	COMP: WAP	5/15/87
Charlie H. Cook, BRIDGE ENGINEER		REINF CHKD: CHECKED: TWW	CHKD: TWW	

FHWA REG.NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27A	159H

ESTIMATED QUANTITIES

"I" FUNDS (INSIDE WIDENING)

QUANTITY	UNIT	DESCRIPTION
1	Lump Sum	Removal of Old Bridge,Station 555+41.45 (Partial Only W.B.L. & E.B.L.-Inside Widening)
755	Cu. Yds.	Unclassified Bridge Excavation
141,400	Lbs.	Steel Reinforcement
1	Each	Steel Test Pile (HP 10X42)
1	Each	◬ Pretensioned-Prestressed Concrete Test Piles (14" Square)
1	Each	△ Loading Tests (HP 10X42)
1	Each	△ Loading Tests (14" Square)
2,250	Lin. Ft.	Steel Piling (HP 10X42)
3,988	Lin. Ft.	◬ Pretensioned-Prestressed Concrete Piling (14" Square)
22,130	Lbs.	Structural Steel
1	Set	Bearing Plates, Bronze (30 Plates)
595	Cu. Yds.	Bridge Substructure Concrete,Class A
1	Lump Sum	Reinforced Bridge Concrete Superstructure, Sta. 555+41.45, Approx. 867 Cu. Yd.
3,174	Sq. Yds.	Reinforced Cement Concrete Bridge End Slab

NOTE: Inside Widening Quantities Include Reworking The Ends Of The Existing Bridges To Bring The Abutment Backwalls To Grade.

△ NOTE: Test Piles Shall Not Be Load Tested Until Seven (7) Days, Minimum, After Driving.

ESTIMATED QUANTITIES

"IR" FUNDS (OUTSIDE WIDENING)

QUANTITY	UNIT	DESCRIPTION
1	Lump Sum	Removal of Old Bridge,Station 555+41.45 (Partial Only W.B.L. & E.B.L.-Outside Widening)
755	Cu. Yds.	Unclassified Bridge Excavation
136,900	Lbs.	Steel Reinforcement
1	Each	Steel Test Pile (HP 10X42)
1	Each	◬ Pretensioned-Prestressed Concrete Test Piles (14" Square)
1	Each	△ Loading Tests (HP 10X42)
1	Each	△ Loading Tests (14" Square)
2,340	Lin. Ft.	Steel Piling (HP 10X42)
3,988	Lin. Ft.	◬ Pretensioned-Prestressed Concrete Piling (14" Square)
26,480	Lbs.	Structural Steel
1	Set	Bearing Plates, Bronze (30 Plates)
581	Cu. Yds.	Bridge Substructure Concrete,Class A
1	Lump Sum	Reinforced Bridge Concrete Superstructure, Sta. 555+41.45, Approx. 769 Cu. Yd.

◬ NOTE: Use 3" Clear From Face Of Pile To Spiral Reinforcing Steel. Concrete Shall Be A Fly-Ash Mix Using Type II Cement,Or Type I Cement Provided The Tricalcium Aluminate Content In The Type I Cement Is Less Than 8%. The Amount Of Fly-Ash Shall Not Be Less Than 12 Lbs. Per Bag of Cement.

BRIDGE SHEET NO. 1A OF 18	STATE OF ALABAMA HIGHWAY DEPARTMENT
REVISIONS	PROJECT NO. I-IR-10-1(84) WIDENING OF I-10 BRIDGES OVER BROAD STREET AT STATION 557+01.74 MOBILE COUNTY,ALABAMA
APPROVED:	ESTIMATED QUANTITIES

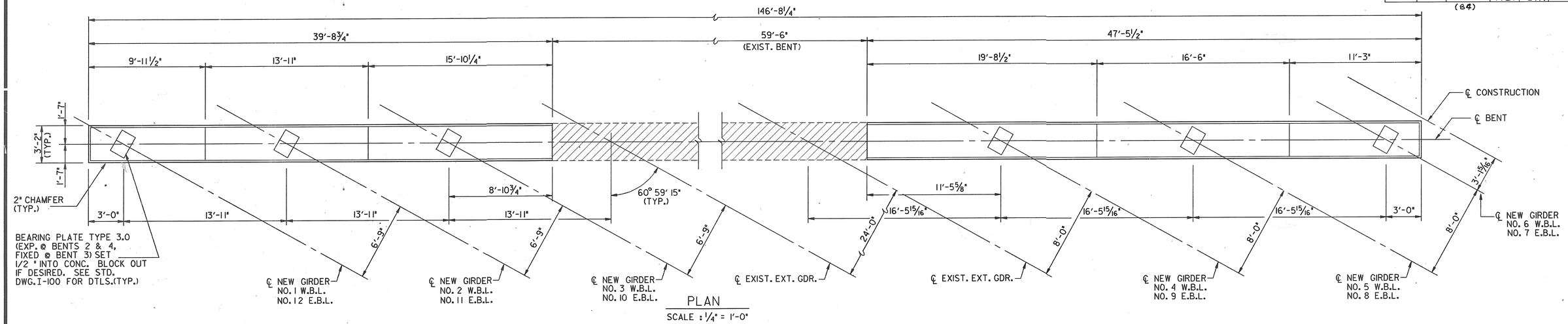
SECTION SUPERVISOR William A. McAteer

CHIEF BRIDGE DESIGN ENGINEER Charlie H. Cook

BRIDGE ENGINEER

SCALE:	DESIGNED:	DRAWN: W. FARRIOR	REINF CHKD:	CHECKED:	QUANTITIES COMP: AWF CHKD: TDH	DATE JUNE 1987

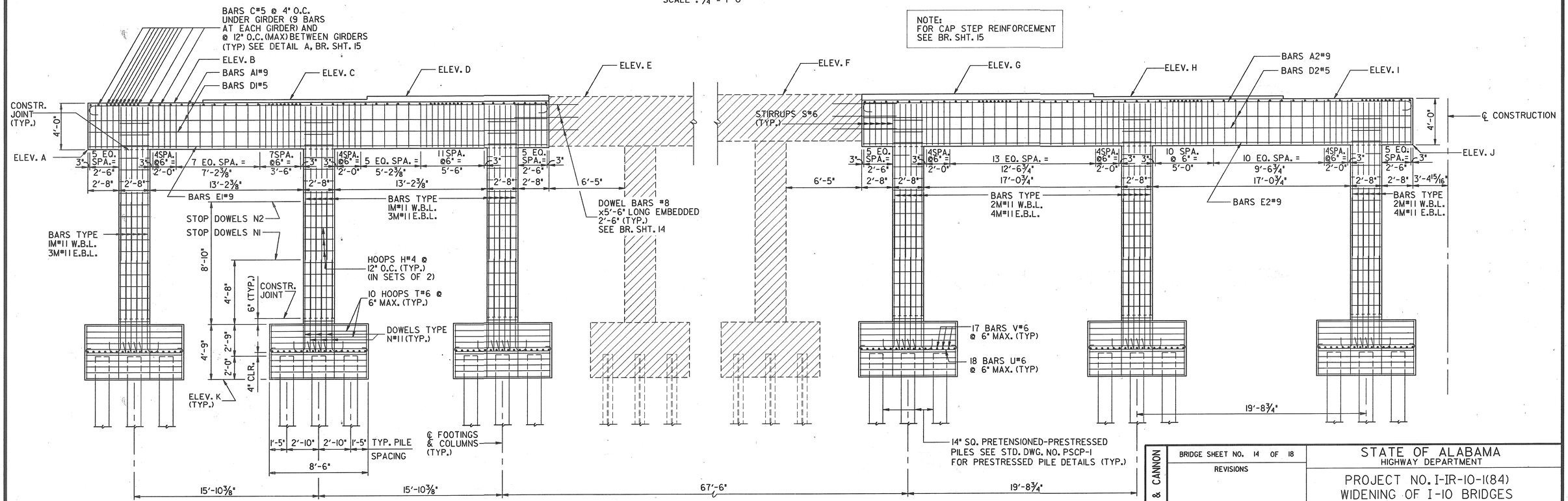
FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27N	159H



PLAN

SCALE : ¼" = 1'-0"

NOTE:
FOR CAP STEP REINFORCEMENT SEE BR. SHT. 15



ELEVATION

(LOOKING UPSTATION W.B.L., LOOKING BACKSTATION E.B.L.)

SCALE : ¼" = 1'-0"

ELEVATIONS											
	A	B	C	D	E	F	G	H	I	J	K
BENT NO. 2 W.B.L.	24.1158	28.1158	28.2969	28.4631	28.38	28.28	28.2979	28.0417	27.7647	23.7647	4.75
BENT NO. 2 E.B.L.	21.8172	25.8172	26.2157	26.5994	26.72	27.36	27.6823	27.6838	27.6645	23.6645	3.55
BENT NO. 3 W.B.L.	23.3718	27.3718	27.6610	27.9354	27.92	28.26	28.3907	28.2627	28.1138	24.1138	5.55
BENT NO. 3 E.B.L.	23.3590	27.3590	27.6494	27.9250	27.96	28.23	28.3873	28.2606	28.1132	24.1132	4.25
BENT NO. 4 W.B.L.	21.8528	25.8528	26.2494	26.6311	26.76	27.47	27.7025	27.7016	27.6800	23.6800	5.95
BENT NO. 4 E.B.L.	24.1092	28.1092	28.2923	28.4605	28.31	28.43	28.3067	28.0529	27.7783	23.7783	4.75

NOTE: FOOTING SIZE & REINFORCEMENT TO BE THE SAME FOR EACH COLUMN
NOTE: DOWEL HOLES TO BE FILLED WITH AN APPROVED EPOXY ADHESIVE, SEE SECTION 870 OF THE STD. SPECIFICATIONS.
NOTE: BOTTOM OF NEW CAP BEAM TO BE LEVEL-STEP TOP AS SHOWN

ESTIMATED QUANTITIES		BENT. NO 2		BENT NO. 3		BENT NO. 4	
ITEM	UNITS	W.B.L.	E.B.L.	W.B.L.	E.B.L.	W.B.L.	E.B.L.
SUBSTRUCTURE CONCRETE	CU. YD.	151.2	150.8	149.1	151.8	146.3	151.4
STEEL REINFORCEMENT-GRADE 60	LBS.	38,059	38,032	36,987	38,180	35,879	38,059

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 14 OF 18

REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

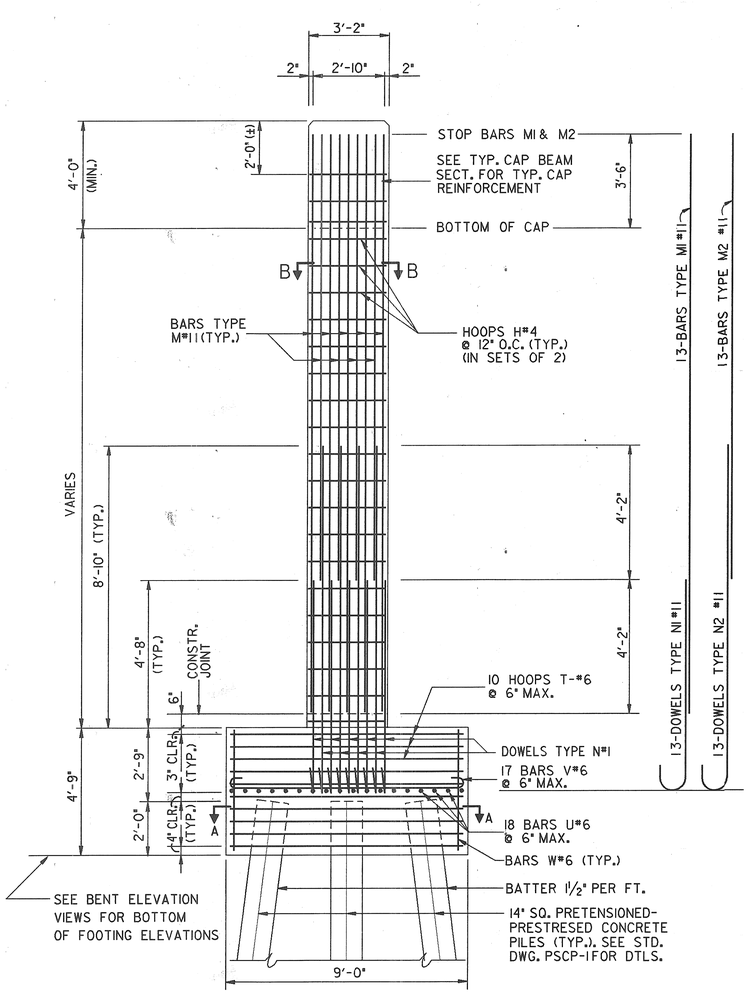
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

BENTS NO. 2, 3, & 4

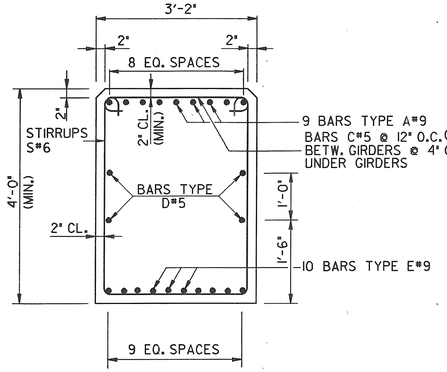
SCALE:	DESIGNED: WAP	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WAP	5/15/87
	REINF CHKD:	CHKD: TWW	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	270	159H



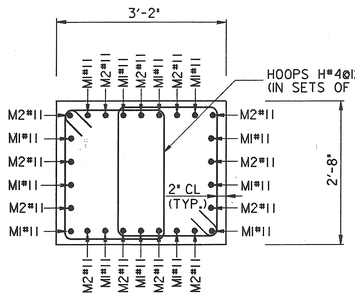
BENT SECTION ALONG ROADWAY

SCALE : ⅜" = 1'-0"



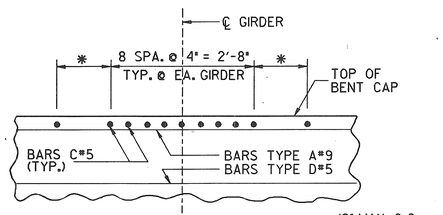
TYPICAL CAP BEAM SECTION

SCALE : ¾" = 1'-0"



SECTION "B-B"

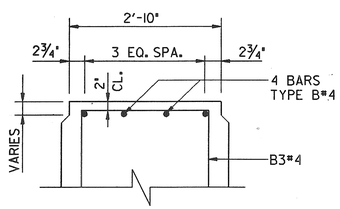
SCALE : ¾" = 1'-0"



DETAIL "A"

NO SCALE

* 12" MAX. O.C. BETW. GIRDERS



SECTION "D-D"

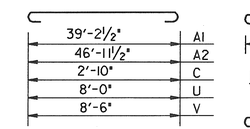
SCALE: ¾" = 1'-0"

ELEVATION SHOWING DOWEL BARS

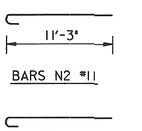
NO SCALE

SECTION "C-C"

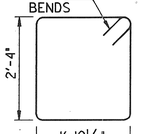
NO SCALE



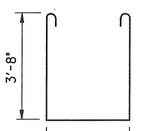
HOOPS T-#6



BARS B3#4



HOOPS H - #4



STIRRUPS S #6

▲ DENOTES: PILES TO BE BATTERED AND DIRECTION.

SECTION "A-A" ℄ TOP OF PILES

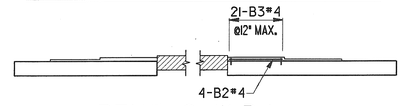
SCALE : ⅜" = 1'-0"

BILL OF STEEL REINFORCEMENT

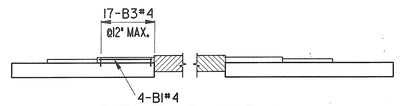
BAR	SIZE	BENT NO. 2 NO. REQ'D	BENT NO. 2 LENGTH	BENT NO. 3 NO. REQ'D	BENT NO. 3 LENGTH	BENT NO. 4 NO. REQ'D	BENT NO. 4 LENGTH
A1	9	18	41'-8½"	18	41'-8½"	18	41'-8½"
A2	9	18	49'-5½"	18	49'-5½"	18	49'-5½"
B1	4	4	15'-6¼"	8	15'-6¼"	4	15'-6¼"
B2	4	4	19'-4½"	—	—		19'-4½"
B3	4	38	6'-0"	34	6'-0"	38	6'-0"
C	5	248	4'-0"	248	4'-0"	248	4'-0"
D1	5	8	39'-2½"	8	39'-2½"	8	39'-2½"
D2	5	8	46'-11½"	8	46'-11½"	8	46'-11½"
E1	9	20	39'-2½"	20	39'-2½"	20	39'-2½"
E2	9	20	46'-11½"	20	46'-11½"	20	46'-11½"
H	4	408	9'-4½"	408	9'-4½"	384	9'-4½"
1M1	11	39	17'-8"	39	16'-1"	39	14'-2"
1M2	11	39	13'-6"	39	11'-11"	39	10'-0"
2M1	11	39	17'-4"	39	16'-10"	39	16'-0"
2M2	11	39	13'-2"	39	12'-8"	39	11'-10"
3M1	11	39	16'-7"	39	17'-5"	39	17'-8"
3M2	11	39	12'-5"	39	13'-3"	39	13'-6"
4M1	11	39	18'-5"	39	18'-2"	39	17'-4"
4M2	11	39	14'-3"	39	14'-0"	39	13'-2"
N1	11	156	8'-8"	156	8'-8"	156	8'-8"
N2	11	156	12'-10"	156	12'-10"	156	12'-10"
S	6	222	11'-6"	222	11'-6"	222	11'-6"
T	6	120	34'-4"	120	34'-4"	120	34'-4"
U	6	216	9'-4"	216	9'-4"	216	9'-4"
V	6	204	9'-10"	204	9'-10"	204	9'-10"
W	6	48	4'-3"	48	4'-3"	48	4'-3"
DOWEL	8	24	5'-6"	24	5'-6"	24	5'-6"

NOTE: ALL BARS GRADE 60 REINFORCEMENT

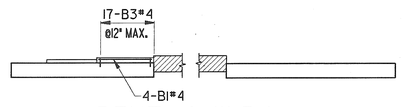
CAP STEP REINFORCEMENT



BENT 2 W.B.L.



BENT 3 W.B.L.



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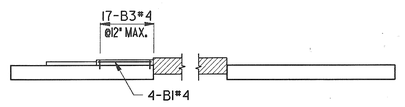

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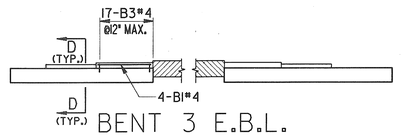
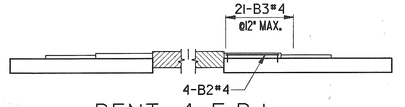


BENT 3 E.B.L.



BENT 4 E.B.L.

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 15 OF 18

REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

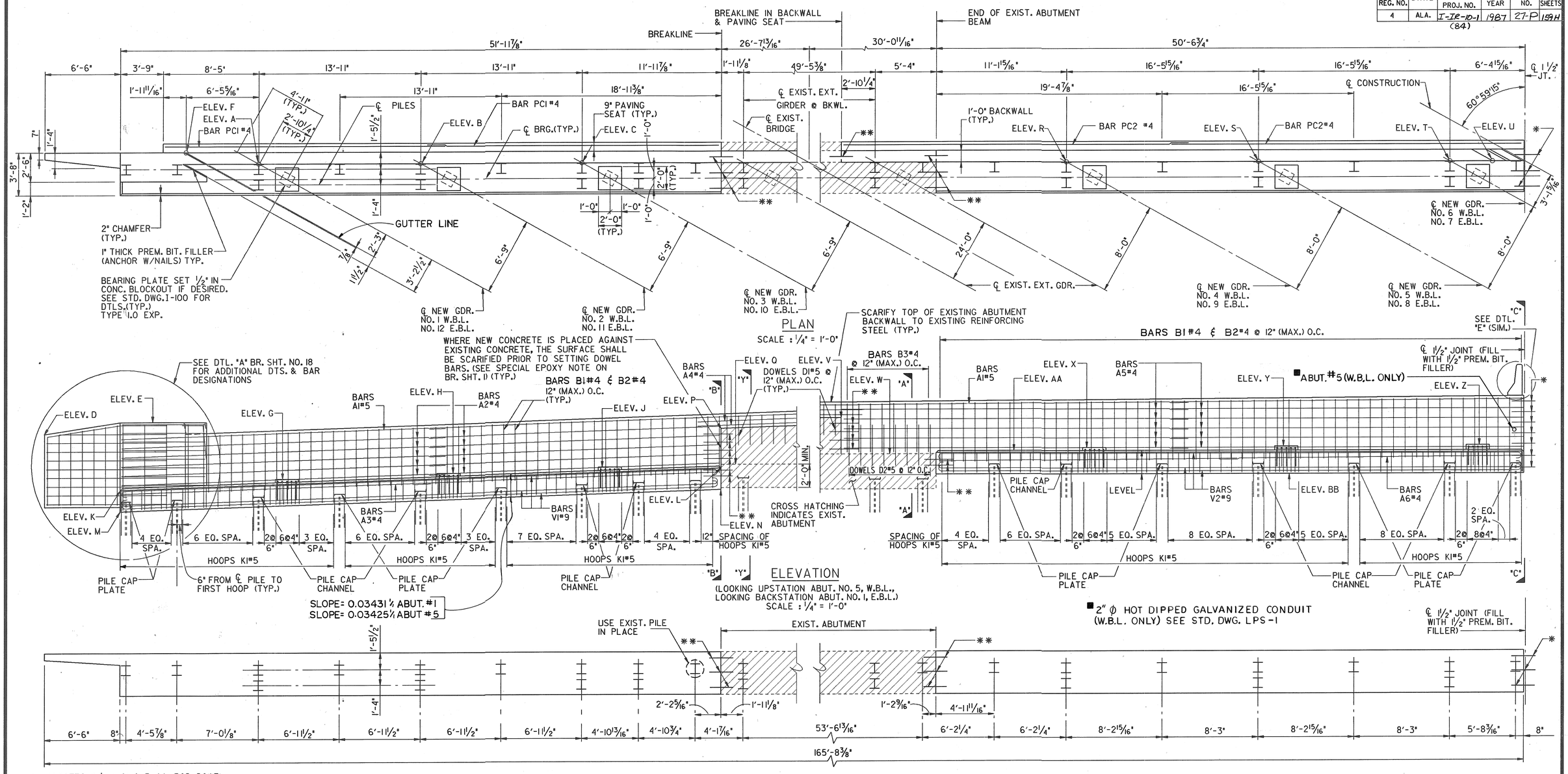
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

BENT DETAILS

SCALE:	DESIGNED: WAP	QUANTITIES	DATE
AS SHOWN	DRAWN: B.W.S.C. CAD/D	COMP:	5/15/87
	REINF CHKD: WAP	CHKD:	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27-P	159H



* INDICATES 1" ϕ X 2'-0" PLAIN ROD DOWEL GREASE ONE END AND WRAP W/ TAR PAPER

** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED 12" INTO EXIST. CONC. DOWEL HOLES (1" ϕ MIN.) TO BE FILLED WITH APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO. 1 AND SECTION 870 OF THE STD. SPECS.

NOTE: WHERE APPLICABLE, EXIST. BACKWALL & ABUTMENT BEAM REINFORCEMENT TO EXTEND INTO NEW BACKWALLS & ABUTMENT BEAMS. MINIMUM EXTENSION INTO NEW CONC. = 2'-0"

ESTIMATED QUANTITIES		ABUT. NO. 1		ABUT. NO.5	
ITEM	UNITS	W.B.L.	E.B.L.	W.B.L.	E.B.L.
SUBSTRUCTURE CONCRETE	CU. YD.	52.3	56.4	56.4	52.3
STEEL REINFORCEMENT	LBS.	9,798	10,111	10,111	9,798
STRUCTURAL STEEL	LBS.	2466	2481	2481	2466

PILE LOCATION PLAN

SCALE : 1/4" = 1'-0"

NOTE: SPLICE BARS #4 = 1'-6"
SPLICE BARS #5 = 1'-10"

NOTE: EXISTING WINGWALLS AND WINGWALL PILES TO BE REMOVED AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.

NOTE: FOR SECTION "Y-Y" SEE BR. SHT. 4.

NOTE: FINISH GRADE OF RAISED BACKWALL ON EXISTING ABUTMENTS SHALL MATCH EXISTING BRIDGE DECK SLOPE.

NOTE: POUR BARRIER RAILS WITH BRIDGE END SLAB BARRIER RAILS. BARS BL TO BE CONTINUED FROM BRIDGE END SLAB RAILS.

NOTE: FOR ELEVATIONS @ BACK FACE OF ABUTMENT BACKWALL, SEE BRIDGE SHEETS NO. 5 & 6.

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB
ABUT. NO. 1	30.3086	30.7970	31.2706	30.0812	31.0812	30.0812	26.1833	26.6682	27.1384	25.4300	27.2140	23.4300	25.2140	30.45(±)	27.36	32.8698	32.9779	33.0652	33.0808	31.62(+)	28.22	28.7176	28.8215	28.9047	28.4676	26.4676
ABUT. NO.5	30.3255	30.8132	30.2861	30.1020	31.1020	30.1020	26.2035	26.6876	27.1569	25.4511	27.2320	23.4511	25.2320	30.45(±)	27.36	32.8811	32.9884	33.0748	33.0902	31.62(+)	28.25	28.7312	28.8342	28.9163	28.4812	26.4812

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 16 OF 18

REVISIONS

APPROVED:

SECTION SUPERVISOR: William J. McAteer

CHIEF BRIDGE DESIGN ENGINEER: Charlie H. Cook

BRIDGE ENGINEER

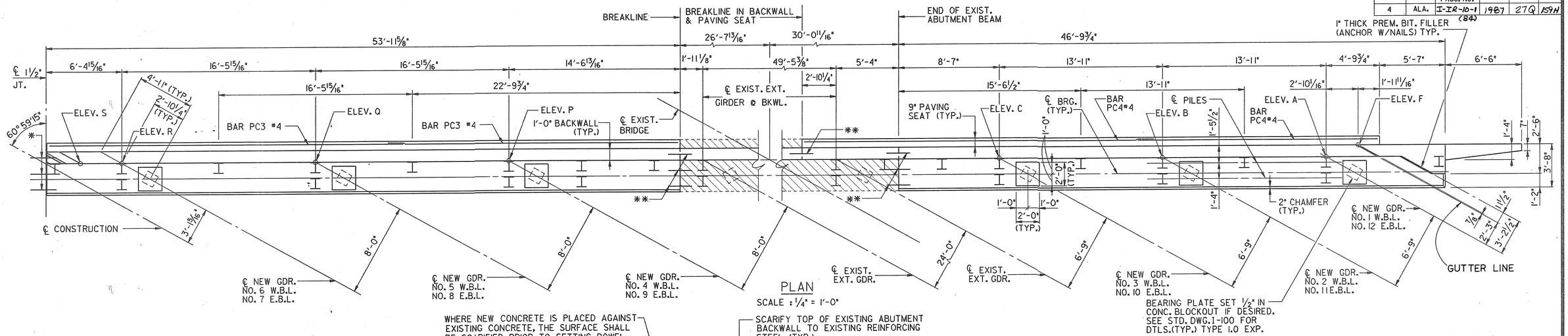
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

ABUTMENTS NO. 1 E.B.L. & NO. 5 W.B.L.

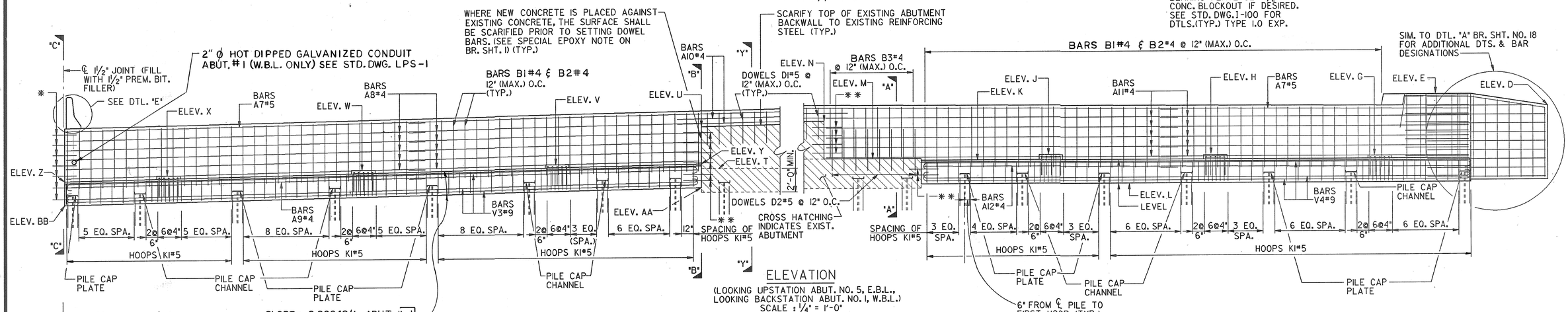
SCALE:	DESIGNED: WAP	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WAP	5/15/87
	REINF CHKD:	CHKD: TWW	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27Q	159H



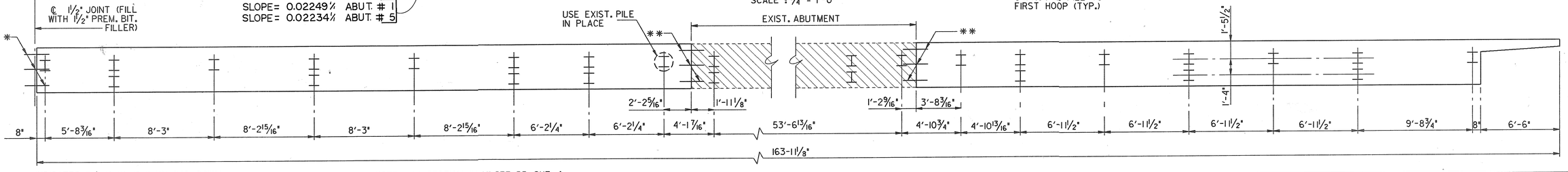
PLAN

SCALE : ¼" = 1'-0"



ELEVATION

(LOOKING UPSTATION ABUT. NO. 5, E.B.L., LOOKING BACKSTATION ABUT. NO. 1, W.B.L.)
SCALE : ¼" = 1'-0"



* INDICATES 1" ϕ X 2'-0" PLAIN ROD DOWEL GREASE ONE END AND WRAP W/ TAR PAPER

** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED 12" INTO EXIST. CONC. DOWEL HOLES (1" ϕ MIN.) TO BE FILLED WITH APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO. 1 AND SECTION 870 OF THE STD. SPECS.

NOTE: WHERE APPLICABLE, EXIST. BACKWALL & ABUTMENT BEAM REINFORCEMENT TO EXTEND INTO NEW BACKWALLS & ABUTMENT BEAMS. MINIMUM EXTENSION INTO NEW CONC. = 2'-0"

NOTE: FOR SECTION "Y-Y" SEE BR. SHT. 4.

NOTE: FINISH GRADE OF RAISED BACKWALL ON EXISTING ABUTMENTS SHALL MATCH EXISTING BRIDGE DECK SLOPE.

NOTE: POUR BARRIER RAILS WITH BRIDGE END SLAB BARRIER RAILS. BARS B1 TO BE CONTINUED FROM BRIDGE END SLAB RAILS.

NOTE: FOR ELEVATIONS @ BACK FACE OF ABUTMENT BACKWALL, SEE BRIDGE SHEETS 5 & 6.

PILE LOCATION PLAN

SCALE : ¼" = 1'-0"

NOTE: SPLICE BARS #4 = 1'-6". SPLICE BARS #5 = 2'-2"

NOTE: EXISTING WINGWALLS AND WINGWALL PILES TO BE REMOVED AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB
ABUT. NO. 1	34.5085	34.5997	34.6761	34.4683	35.4683	34.4683	30.3097	30.4043	30.4842	30.0597	28.0597	30.26	33.39(±)	33.9945	33.6318	33.2482	33.1645	29.98	32.98(±)	29.8226	29.4640	29.0845	29.8467	28.6343	27.8467	26.6343
ABUT. NO.5	34.5109	34.6029	34.6802	34.4706	35.4706	34.4706	30.3119	30.4074	30.4881	30.0619	28.0619	30.22	33.40(±)	34.0035	33.6418	33.2592	33.1766	29.45	32.99(±)	29.8314	29.4738	29.0953	29.8507	28.6465	27.8507	26.6465

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 17 OF 18

REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

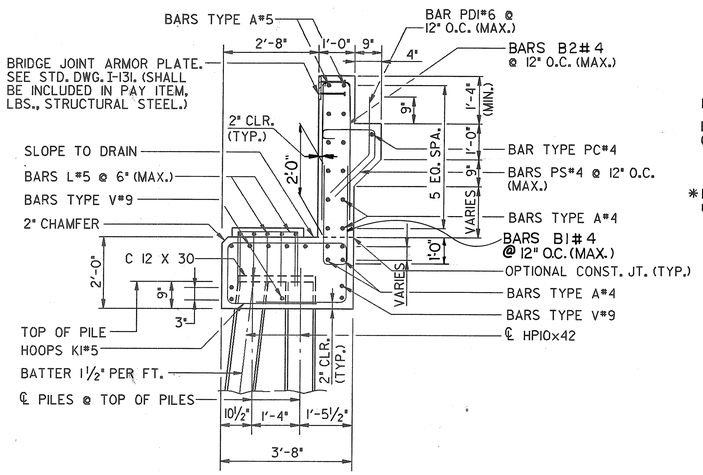
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

ABUTMENTS NO. 1 W.B.L. & NO. 5 E.B.L.

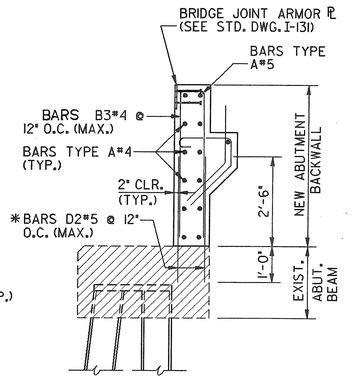
SCALE:	DESIGNED:	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP:	5/15/87
	REINF CHKD:	CHKD:	
	CHECKED:		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	27R	159H



ABUTMENT SECTION @ DOUBLE PILES

SCALE : ½" = 1'-0"

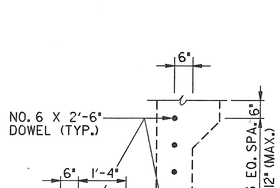


NOTE : FOR DETAILS NOT SHOWN, SEE TYPICAL ABUTMENT SECTION

*DOWEL HOLES (¾" Ø MIN.) TO BE FILLED W/ APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO. 1 & SECTION 870 OF THE STD. SPECIFICATIONS.

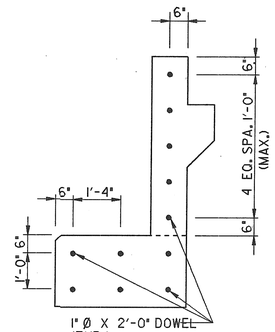
SECTION "A-A"

SCALE : ½" = 1'-0"



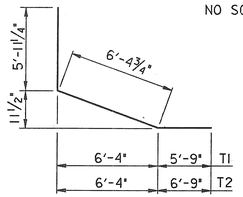
SECTION "B-B"

NO SCALE

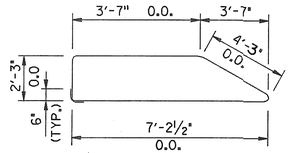


SECTION "C-C"

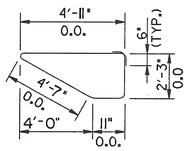
NO SCALE



BARS T

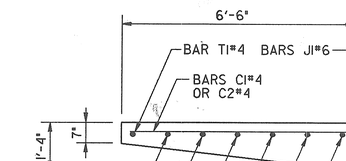


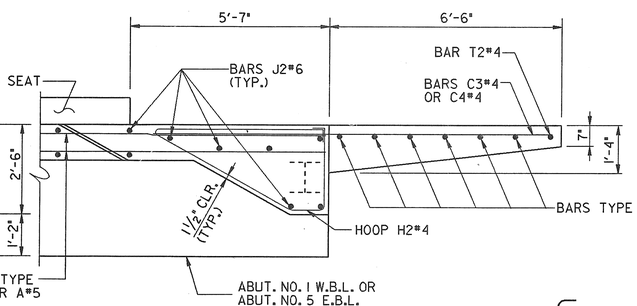
HOOPS H1



HOOPS H2

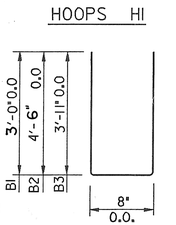
BILL OF STEEL REINFORCEMENT					
		ABUT. NO. 1		ABUT. NO. 5	
BAR	SIZE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
A1	5	8	41'-2"	8	41'-2"
A2	4	20	26'-7½"	20	26'-7½"
A3	4	4	26'-7½"	4	26'-7½"
A4	4	8	26'-8"	8	26'-8"
A5	4	20	29'-11"	20	29'-11"
A6	4	4	25'-10"	4	25'-10"
A7	5	8	40'-8"	8	40'-8"
A8	4	20	27'-7"	20	27'-7"
A9	4	4	27'-7"	4	27'-7"
A10	4	8	26'-8"	8	26'-8"
A11	4	20	28'-1"	20	28'-1"
A12	4	4	24'-0"	4	24'-0"
B1	4	192	6'-8"	192	6'-8"
B2	4	192	9'-8"	192	9'-8"
B3	4	16	8'-6"	16	8'-6"
BR1	5	8	2'-3"	8	2'-3"
BR2	5	4	2'-9½"	4	2'-9½"
BR3	5	4	3'-6"	4	3'-6"
C1	4	8	10'-1"	8	10'-1"
C2	4	1	9'-0"	1	9'-0"
C3	4	8	11'-3"	8	11'-3"
C4	4	1	10'-2"	1	10'-2"
D1	5	196	2'-6"	196	2'-6"
D2	5	32	3'-6"	32	3'-6"
H1	4	8	18'-4"	8	18'-4"
H2	4	8	13'-8"	8	13'-8"
J1	6	10	7'-2"	10	7'-2"
J2	6	8	7'-1"	8	7'-1"
K1	5	279	11'-4"	279	11'-4"
L	5	120	4'-8"	120	4'-8"
PC1	4	2	24'-8½"	2	24'-8½"
PC2	4	2	30'-0"	2	30'-0"
PC3	4	2	27'-7"	2	27'-7"
PC4	4	2	25'-4"	2	25'-4"
PD1	6	213	2'-9"	213	2'-9"
PD2	6	98	1'-9"	98	1'-9"
PS	4	213	5'-0"	213	5'-0"
R1	4	2	6'-1"	2	6'-1"
R2	4	2	6'-3"	2	6'-3"
R3	4	2	6'-4½"	2	6'-4½"
R4	4	2	6'-6½"	2	6'-6½"
R5	4	2	6'-8½"	2	6'-8½"
R6	4	2	6'-10½"	2	6'-10½"
T1	4	1	18'-1"	1	18'-1"
T2	4	1	19'-1"	1	19'-1"
V1	9	12	54'-0"	12	54'-0"
V2	9	12	52'-6"	12	52'-6"
V3	9	12	55'-11½"	12	55'-11½"
V4	9	12	48'-9½"	12	48'-9½"
Z	5	4	4'-8"	4	4'-8"
DOWEL	6	40	2'-6"	40	2'-6"
DOWEL	1" Ø	11	2'-0"	11	2'-0"



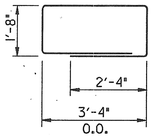


PLAN VIEW SHOWING WING REINF.

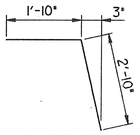
SCALE : ½" = 1'-0"



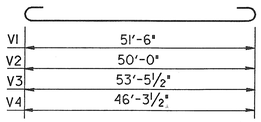
BARS B



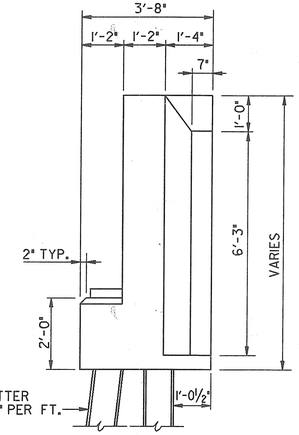
HOOPS K1



BARS Z

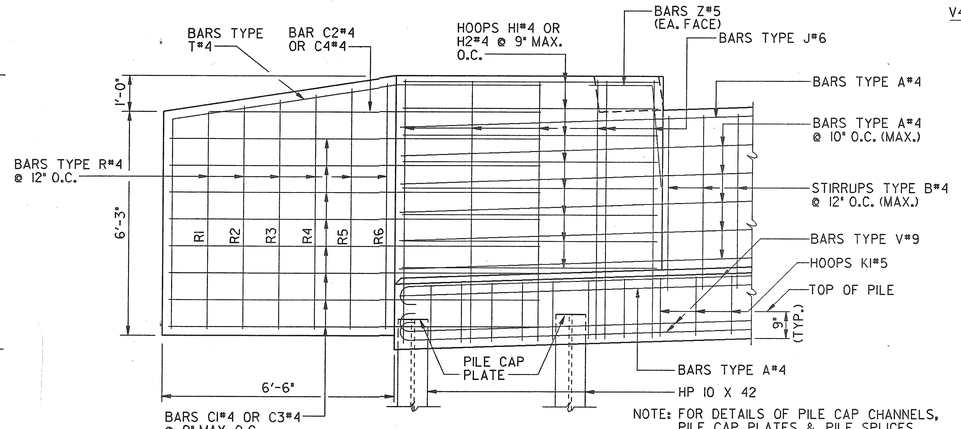


BARS TYPE V



END ELEVATION

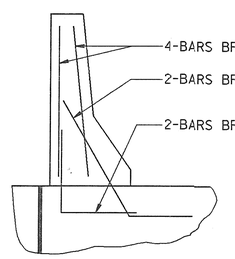
SCALE : ½" = 1'-0"



DETAIL "A"

SCALE: ½" = 1'-0"

NOTE: FOR DETAILS OF PILE CAP CHANNELS, PILE CAP PLATES & PILE SPLICES, SEE STD. DWG. I-131.

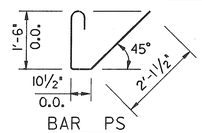


(USED IN EXIST. PAVING SEAT)

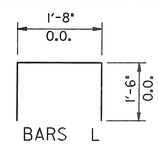
DETAIL "E"

NO SCALE

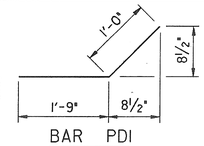
NOTE: BARS BR2 & BARS BR3 EMBED. 7" ALSO FOR ADDITIONAL INFORMATION, SEE BR. SHT. 3 & STD. DWG. I- 131



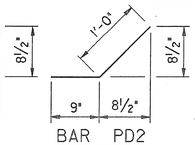
BAR PS



BARS L



BAR PD1



BAR PD2

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 18 OF 18

REVISIONS

APPROVED:

SECTION SUPERVISOR: William J. McAteer

CHIEF BRIDGE DESIGN ENGINEER: Charlie H. Cook

BRIDGE ENGINEER

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES
OVER BROAD STREET
AT STATION 557+01.74
MOBILE COUNTY, ALABAMA

ABUTMENT DETAILS

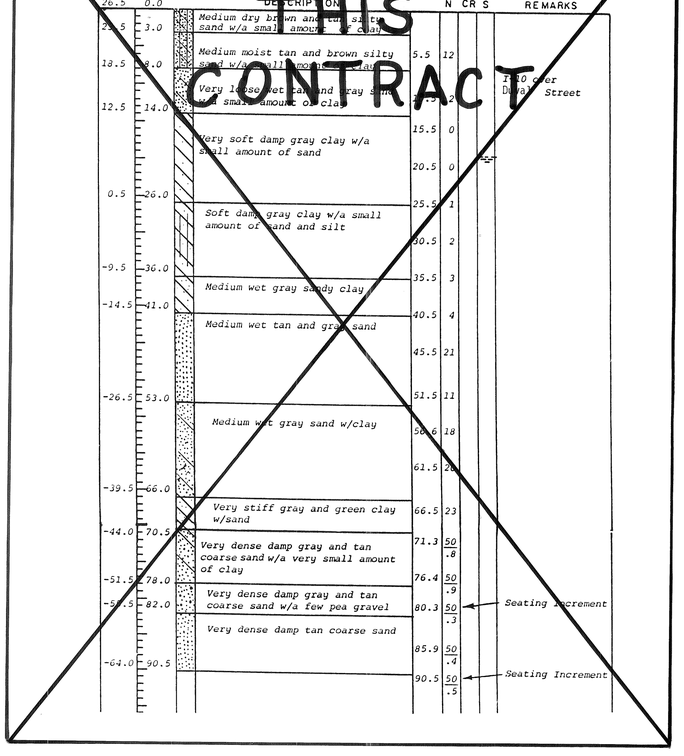
SCALE:	DESIGNED:	QUANTITIES	DATE
AS SHOWN	DRAWN: B.W.S.C. CAD/D	COMP:	5/15/87
	REINF CHK'D:	CHK'D:	
	CHECKED:		

FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	32	159H

NOT IN THIS CONTRACT

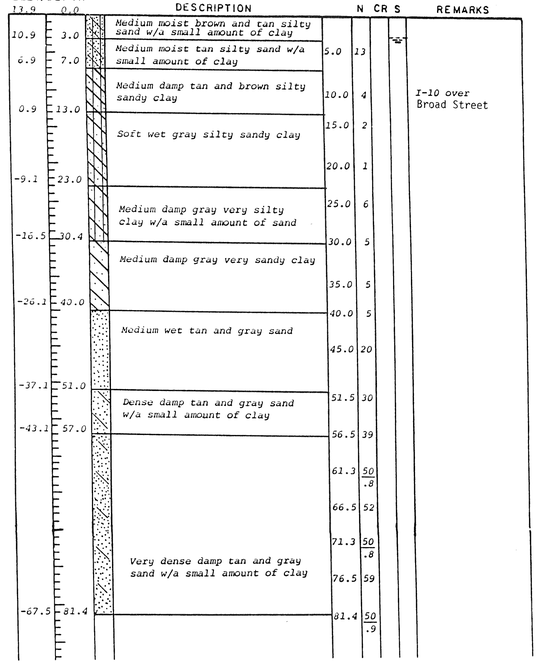
DUVAL ST.

LOCATION: Sta. 523+77.93 C/L



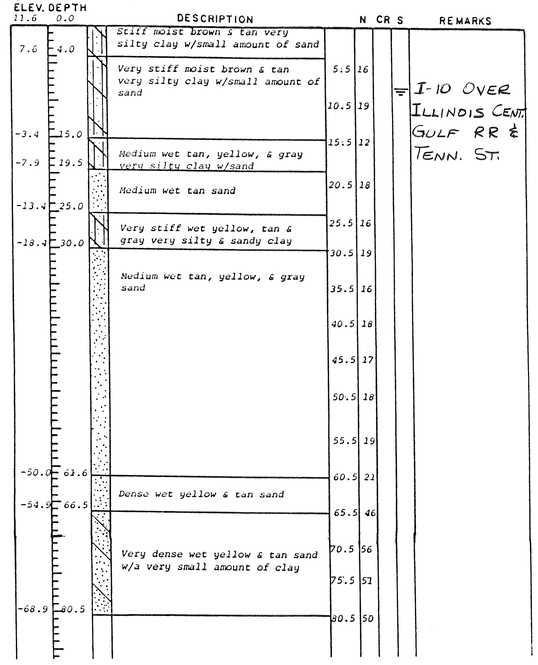
BROAD ST.

LOCATION: Sta. 557+06.72 C/L



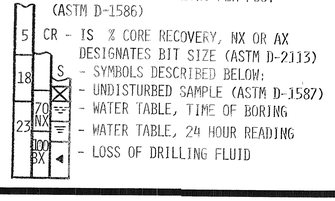
TENN. ST. AND ILLINOIS CENTRAL GULF R R

LOCATION: Sta. 592+40; C/L of I-10



SPECIAL NOTE: SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IT IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THIS PROJECT.

N - IS PENETRATION IN BLOWS PER FOOT (ASTM D-1586)



BRIDGE SHEET NO. 1A OF 3A

REVISIONS

APPROVED:

SECTION SUPERVISOR

William J. McAteer

CHIEF BRIDGE DESIGN ENGINEER

Charlie H. Cook

BRIDGE ENGINEER

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES OVER BROAD ST., TENN. ST., WAR.-LAW. ST., VIRGINIA ST., AND TEXAS ST.
MOBILE COUNTY, ALABAMA

TEST BORING RECORD

SCALE:	DESIGNED:		QUANTITIES	DATE
	DRAWN:	G.W.	COMP:	MARCH 1986
	TRACED:		CHKD:	
	CHECKED:	F.B.		

K&E 19-1253