INDEX TO SHEETS Sheet No. 1 - IA Title Sheet & INDEX Sheet No. 2-2J Typical Section, GNZ AND PROJECT NOTES Sheet No. 3-3 R Summary of Quantities Sheet No. 4-4A Plan & Profile, Sta. 533+00 To Sta. 566+70

- CONTINUES ON SHEET 1-A-

IN PLACE I-OVER BRIDGES (TO BE WIDENED)

BEGIN STA. 555+41.45 TO END STA. 558+71.29 DUAL BRIDGES-329.84LIN. 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. 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

STATE OF ALABAMA HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY

PROJECT NO. I-IR-IDR-10-1(84)24 MOBILE COUNTY

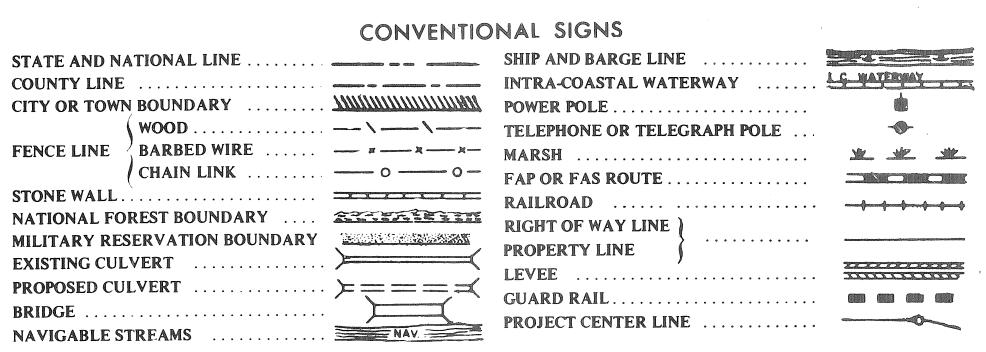
ON I-10 STA. 540 + 00 TO STA. 660+06.82

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



NAVIGABLE STREAMS

AS INDICATED ON SHEET NO. 1 15

THE CORRECT IDENTIFICATION

FOR THESE PLANS. IT SHALL BE

UNDERSTOOD THAT THIS NUMBER

NOTE THE PROJECT NO. I-IR-IDP-10-1 (84)24

		Ď	ESIGN DESIGN	NATION	
	ADT	(1987)	53,000)	
	ADT	(2007)	93,300)	
	К	===	, 10%	.	
	D	==	55%	6	
	T ADT		11%	•	
40	V= 50	MPH	(DESIGN SPEED) 4	
	ACTUAL	MINIMUM	STOPPING SIGHT	DISTANCE = 1	V/J
				*	~~~

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM WITH ALABAMA HIGHWAY DEPARTMENT STANDARD

SUBMITTED FOR APPROVAL	
CHIEF EN	NGINEEF
APPROVED.	
HIGHWAY DI	RECTOR
STATE OF ALABAMA THEHWAY DEPARTMENT	
DEPARTMENT OF TRANSPORTATION	
FEDERAL HIGHWAY ADMINISTRATION	
*	

DIVISION ADMINISTRATOR DATE

TOTAL EFFECT = 1082.64 LIN. FT.

© STA. 614+67. 29 BK=STA. 614+66.60 AH = 0.69 LIN. FT. (D) STA. 640+39.22BK= STA.646+50.00AH = -610.78 LIN. FT

TOTAL EFFECT= -607.78 LIN. FT

"<u>EXCEPTIONS</u>"

"EQUATIONS"

BEGIN STA. 597+19.36 TO END STA. 598+81.05 DUAL BRIDGES-161.69 LIN. FT. (WARREN-LAWRENCE ST.) (6) SUPERSEDES PROTECT NO I-IR-10-1(84)24 AS LISTED ON SHEET 1A THROUGH 159H END WORK STA. T-4-S T-5-S 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 BEGIN PROJECT In Writing 10 (Ten) Days Before Work Is To Begin On This Project STA. 540+00

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

EQUATIONS AND EXCEPTIONS NET LENGTH OF PROJECT NET LENGTH OF BRIDGES NET LENGTH OF ROADWAYS

11,399.04 FT = 2.158 MI. 1,082.64 FT = 0.205 MI. 10,316.40 FT = 1.953 MI.

INDEX TO SHEETS CONTINUED

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

S	HEET	NO.			LIST	ING		4			
	II.	11	9	OMIT			a .				
	11	#1	Ю	OMIT							
	1.1	Ħ	11	OMIT							
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	11	П	13	PAVING	LAYOUT	STA	550+00	TO	STA	566 +00	
	11	11	14	11	11	11	566 + 00	TO.	STA.	582 + 00	
	11	п	15	11	į 1	11	582 + 00	TO	STA.	595+00	
	П	Н	16	il	15	П	595+00	TO	STA.	611 + 00	
			17	+1	(1	11	611 +00	10	STA.	625+00	
			18	11	11	11	625+00	TO S	STA.	640 + 00	
			19	П	11	v)	640+00	TOS	STA.	660 † 00	
			20	OMIT							
			21	OMIT							
			22	OMIT							
			23	OMIT							
			24	OMIT							
			25-25 I	UTILITY	SHEET	75					
			,	DRAINA							
							R BROAL	•			
										TREET AND ILLINOIS CENTRAL GULF RAILROAD	
			_							ERENCE CONNECTOR	
							R VIRGI				
							R TEXA	S 5	TREE		
				TEST I			_				
				INTERN			KEPAIR				
				LIGHTING			1 AVOL17	F ANII) C	GN LAYOUT	
		9	. gamention	OMIT	JIKIT	-1140	LAIOUI	7-(14)		GN LAYOUT	
					Os Mou	NTING	10/000line	Sich		N MEDIAN BARRIER	
				_	_					TH LUMINAIRE MOUNTING DETAILS	
				OMIT	,			/			
			_	•	DWG	NO.	BES-450)-O	DETA	AILS OF BRIDGE END SLAB	
	di Marini Santa Marini		4	11	11	11				LARE DETAIL AND WARRANTY CRITERIA FOR GUARDRAIL	
			42	11	(1	11				LVANIZED STEEL BEAM GUARDRAIL	
			43 - 43 B	t i	9 3	· ##	RPC-53	80 (3 - S	HEETS) DETAILS OF BEDDING OF PIPE	
			44	11	s g	11	GA - 630)-8	DETA.	ILS OF TYPE 8 GUARDRAIL END ANCHORS	
			45	11	1.5	11	GA - 630	1-10 L	DETA.	ILS OF TYPE 10 GUARDRAIL END ANCHORS	
			46	1.1	4 8	11	GA - 630) - 13	DET	AILS OF GUARDRAIL END ANCHOR TYPE 13	
		14	47-47A	1.5	s \$	• •	GR-9A É	GUA	RDR	AIL END ANCHOR TY3 (FOR INFORMATION PURPOSE ONLY)	
			48	1.1	i i	1.1	PU-606	DET	AILS	FOR PIPE UNDERDRAIN INSTALLATION	±Ø
			49	§ 8	f #	# #	197-4L	M 5	UPEA	RELEVATION OF CURVES FOR FOUR (4) LANE HIGHWAYS	
			50	1 1	1.8	11	PM - 705	5 -1	PAVE	MENT MARKERS	
		٠	51	1 4	1.4	(1	IHS - 7/0	- 14	HIGH	WAY SIGN MOUNTING FOR STANDARD SIGNS	
			52	, 1	a P	+ \$	B-107-1	BAR	RICA	IDES TYPE I, TYPE II AND TYPE III	
			53	r 1	1.1	11	LCS - 10	7 R	EQUI	IREMEMENTS FOR LIGHTING CONSTRUCTION SIGNS	
			54	g é	ė ė			***************************************		ILS FOR TRAFFIC CHANNELIZING DEVICES	
	40		55	f 8	ł ą					MENT LEGENDS AND MARKINGS	
		1	56	1. [1 1					PLICATION OF PAVEMENT MARKERS	
	der ferson unser den generalen kommunen der Engelschen gehalt und generalen der zeite der der		57-57A	1		1 1	P.M 705) - <u>3</u>	REF	LECTORIZED MARKINGS	

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OMIT
  58
                       OMIT
  59
                                  EROSION CONTROL NETTING
      SPECIAL DWG. NO.
                       ECN -659
         " " IPS-701-8 TRAFFIC STRIPING AUXILIARY LANES AND RAMPS
                       IPS-701-5 TRAFFIC STRIPES FOR 6 LANE RURAL HIGHWAYS WITH PAVED SHOULDERS
                       OMIT
                       OMIT
     SPECIAL DWG. NO. 623-XY DETAILS OF CONCRETE CURBS & CONCRETE CURB & GUTTER MOUNTABLE & BARRIER TYPES
         " B-614 SLOPE PAVING ON SLOPES UNDER SEPARATION BRIDGES
                      CPJ-450 PLAIN AND REINFORCED CEMENT CONC. PAVT, AND BRIDGE END SLAB JOINTS
                      NC-623 GORE AT TERMINALS OF ENTRANCE & EXIT RAMPS . RURAL OR URBAN SECTIONS
        " IPS-10(S.C.) Details Showing Nose Gore Required Adjacent To Recovery Lane & Required Adjacent To Recovery Lane
                      GTE-629 CONCRETE MEDIAN BARRIER TYPE 6-A FOR USE WITH G-R-E-A-T SYSTEM (PORTABLE)
         " GR-630-PP DETAIL OF GUARDRAIL FOR BRIDGE PIER PROTECTION ON EXISTING PROT WITH SLORES GREATER THAN 10:1
                      U.B. -621-P PRE-CAST JUNCTION BOX-TYPE IP, 2P & 5
                      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
                      S.W. - 618 DETAILS OF SIDEWALKS
        1 1 1 1 1
 76 SPECIAL PROJECT DETAIL - STEEL PLATE ON CONC. MEDIAN BARRIER
 77-77ASPECIAL PROJECT DWG (2-SHTS) WIND VELOCITY CHART
 78 SPECIA PROJECT DETAIL INLET TYPE E3 AND E4 FOR USE WITH CONC. MEDIAN BARRIER
                              CONC MEDIAN BARRIER TREATMENT UNDERPASS PIERS
                              DETAILS SHOWING LOCATION OF BASE PLATES & REQ'D JOINT FOR OVERHEAD SIGN SUPPORT TY.5 MEDIAN BARRIER SE
     SPECIAL DWG, NO. 710-2 BEAM POST DETAILS BASE CONN, TY-1 FUSE PLATE
 82 SPECIAL DWG. NO.
                              CC-530 DETAILS OF CONC. COLLAR
                              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 STO. DWG. NO. BRIDGE STANDARDS --- BGN-1, PSCP-1, TP1 25HEETS, I-100, I-131 35HEETS, LPS-1
 88-88ZN BRIDGE PLAN SHEETS FOR INFORMATION PURPOSES ONLY
 89-89-H STANDARD HIGHWAY 5/GNS -1-9-10-11-21-22-23-24-25
 90 SPEC. DWG, ND. 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" TYPEI (O'-10' FILL HEIGHT)
 93-93B" " IHS-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 " 1/45-710-24 MOUNTING FLAT SHT. ALUM. SIGNS ON EXTRUDED ALUMINUM STIFFENERS
D97 " 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
 1596 CROSS SECTIONS MEDIAN STA. 655+50 ~ 660+00
 159-H Spec, Dwg No. IHS-710-19 DETAILS OF MOUNTING SIGN ON ROUND BREAKAVYAY POST
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D Add STD DWG 9/3/87.

FHWA REG.NO.	STATE	PROJECT NO.			TOTAL SHEETS
4	AL	I-IR-10-1 (84)	1987	3 ⁵ A	159 H

SUMMARY OF QUANTITIES

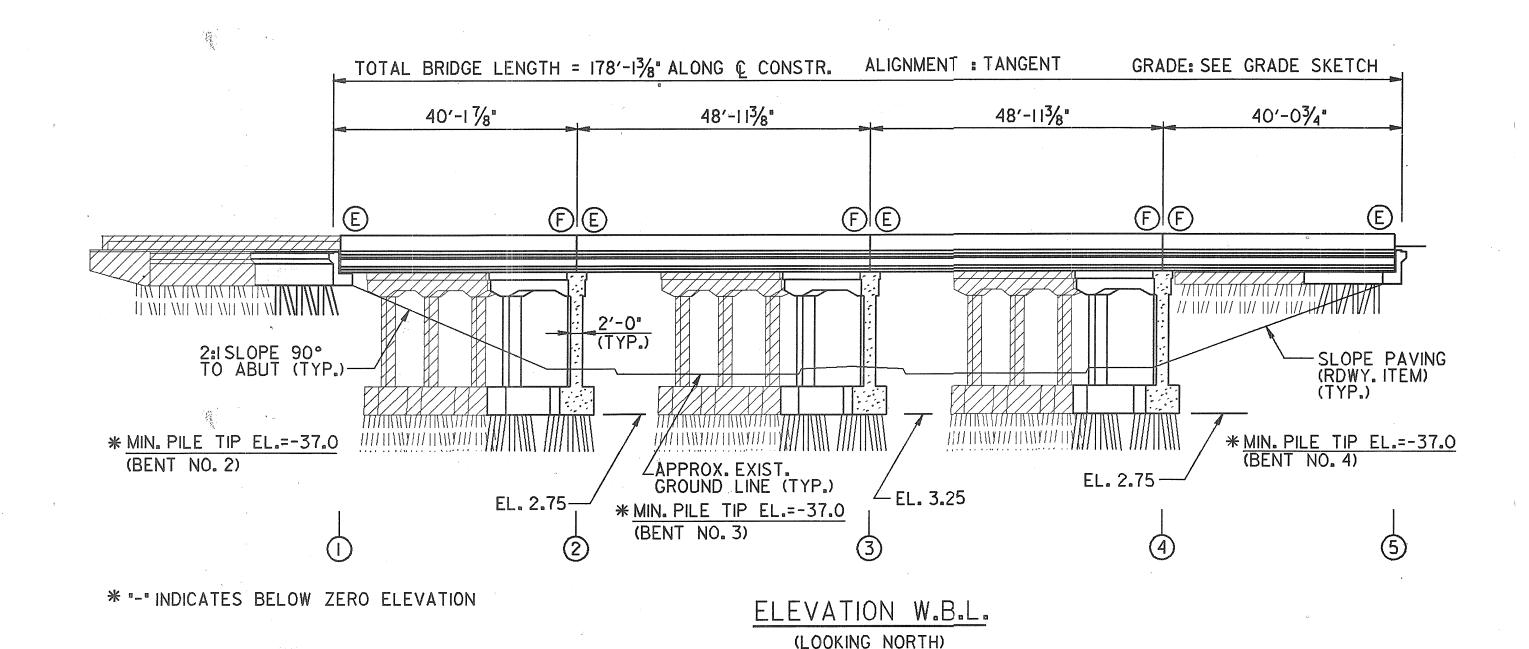
IR-FUNDS	I-FUNDS	IR-FUNDS	TOTAL	ITEM
		2313		
		2313	l l	
		2313	2313	4164-003
		3223	3223	4160-000
	50	50	100	416D-000
	476	4272	4748	420A-001
	1500	500	2000	430B-001
	5050	4605	9655	450B-000
515250	Mark Control of the C		728350	502A-000
8			10	505A-000
2			2	505A-005
6			8	505A-006
8			10	505B-000
				505B-005
		÷		505B-006
				505C-000
				505C-005
		To the state of th		505C-006
				508A-000
				5080-030
2249		DO THE STATE OF TH		510A-000
				510C-000
				510C-001
·				510C-002
				510C-003
		٠		5100-004
				5100-005
			·	510C-006
			1	510C-007
				5100-008
				5100-009
4689			4689	513B-004
1379			2758	513B-005
49	16	402	418	523B-000 5 30A-00 1
		77	77	530A-101
		3	3	530A-102
		42	42	530A-105
	84	180	264	530A-200
	4290	5616	9906	532A-001
	0.22	0.28	0.50	600A-000
	5628	6416	12044	606A-005
	8 2 6 10235 2005 13325 113120 1 2249	8 2 6 10235 2005 13325 113120 1 2249 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 2 6 10235 2005 13325 113120 1 2249 1 1 1 1 1 1 1 1 1 4689 1379 49 16 402 77 3 42 84 180 4290 5616 0.22 0.28	8 2 6 10235 2005 13637 2005 13325 13638 147950 2 2 3142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ITEM NO.	UNIT	DESCRIPTION
416A-003	TON	BITUMINOUS CONCRETE WEARING SURFACE (MIX B)
4160-000	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	SO 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 SOUARE)
505B-006	EACH	LOADING TESTS (14 INCHES SQUARE)
505C-000	LIN FT	STEEL PILING (HP 10X42)
5050-005	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
5080-030	SET	BEARING PLATES BRONZE (ONE SET CONSISTS OF 30 PLATES)
510A-000	CU YD	BRIDGE SUBSTRUCTURE CONCRETE, CLASS A
5100-000	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-00 2	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 366 CU. YDS (INSIDE WIDENING)
5100-003	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 319 CU. YDS (OUTSIDE WIDENING)
5100-004	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 262 CU. YDS (INSIDE WIDENING)
5100-005	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 147 CU. YDS (OUTSIDE WIDENING)
5100-006	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 289 CU. YDS (INSIDE WIDENING)
5100-007	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 182 CU. YDS (OUTSIDE WIDENING)
5100-008	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 621+66.47, APPROX. 249 CU. YDS (INSIDE WIDENING)
5100-009	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 523B-000 530A-001	LIN FT EACH LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE III (SPECIALTY ITEM) Lifting Bearing 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" ROADWÂY 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

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

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

							RF	QUIRF	ED WIDE	NING	AND PART	TAL REMOVA	<u> </u>	D RCD	G BRIDGES						
		E	206A REMOVAL OF	215 A UNCLASSIFIED	502 A STEEL	505A STEEL TES	PRETE	505A Insigned.	503	5 B	505B LOADING TEST	505 C STEEL PILIA					5/0A 501A	510-C	513B	513B	1
STATION	SIDE	LENGTH	OLOBRIDGE	BRIDGE	REINFORCEMEN	T PILE (HP10)	X42 TEST	RESSED CO	ONC TEST	o x 42)	(EACH)	(HP, 10 X 42	PRI COL	ETENSIONED- ESTRESSED NC. PILING (LIN	STRUCTUAL B) STEEL	BEARING F BRONZI	501A PLATES BRIDGE E SET SUBSTRUCT	URE BRIDGE CON	PRETENSIONE C. PRESTRESSED	D PRETENSIONED PRESTRESSED	STD DWG No.'s
		LIN. FT.	LUMP SUM	Cu, Yo.	LB,	EACH	12.5	ia 143a	2450 EAC	H	12"sa 14"sa 2			a 1450 245		30	CONC CL.	A. SUPERSTRUCTUR	CONCRETE GIRDERC TYPE T	Concrete Girders Type III	
555+41	.45 206 A-50		1	755	141,400	1		1	1			2,250		3988	22,130		595			I YIPE 111	
																		1 @ 867c	у.		
		•																			
59.1+16	.85 206°			340	71.700						1	1152		1225	12,700		298	10 366 cx	·.	1379	
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			<u> </u>	1095	213100	2		2	2	•	2	3402		5213	34830		893	1		1379	
555+41.4	15 206 A-51		,	nessed lenn lunn	127,000																•
773741.4	45 200			755	136,900					The season of th		2340		3988	26,480		581	10 769			
591 +16.1	25 706A-53			450	01000	84															
-				420	81200							1440		1627	16110		336	10 319 CY		1379	
				e e	,																
597+19.3 597+19.3	36 INSIDE	·		300 190	52.550 26000		1					946	1203	1 8	12,300		248	10 262cr	938	,	
9			,		20000	'						637	802		10690		/34	1e 147 CY	3/3	,	
Q 607+73.2	ONSIDE		1	290	60,500	1			A			10 11		1007	10/05		dis				
607+ 73.2	22 OUTSIDE		i	193	31 <i>500</i>				•			1344 <i>67</i> 2	3	1271	12,600 10530		258 134	10 289 10 182	1032 344		
×																	/37	, - , - , - , - , - , - , - , - , - , -			
621+66.4	17 INSIDE			259	58,500	***************************************		(Valestinger)			e e e e e e e e e e e e e e e e e e e	1344		1936	9200		258	10 249	1030		
621+66.4	LI QUISIDE			235	68 100	1			1			1512		25%	15210		300	1@ 255	1032		
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						-															
				2672	5/5250	8	2	6	8		2 6	10235	2005	13325	1/3120		2249		4689	1379	



SCALE: 1/16"= 1'-0"

ELEVATION E.B.L.

(LOOKING NORTH)

SCALE: 1/16"= 1'-0"

TOTAL BRIDGE LENGTH = 178'-13/8" ALONG & CONSTR. ALIGNMENT : TANGENT GRADE: SEE GRADE SKETCH 40'-03/4" 48'-113/8" 40'-17/8" 48'-11³/₈" SLOPE PAVING (RDWY. ITEM) 2:I SLOPE 90° TO ABUT (TYP.)—— *MIN. PILE TIP EL.=-37.0 (BENT NO. 4) * MIN. PILE TIP EL.=-37.0 (BENT NO. 2) ZAPPROX EXIST.
GROUND LINE (TYP.) EL. 2.75 ____EL. 2.75 * MIN. PILE TIP EL.=-37.0 (BENT NO. 3)

BRIDGE GENERAL NOTES

SEE STANDARD DRAWING NO. BGN-I (ISHT.)

ROADWAY : 63'-134" (WESTBOUND) AND 75'-01/4" (EASTBOUND) PROPOSED INTERIOR GUTTER TO EXISTING EXTERIOR GUTTER WITH

5. ABUTS. - 25 TONS, BENTS 53 TONS. +0.3440% GRADE SKETCH (I-10)

NOTE : EXISTING BRIDGE TO BE RETAINED FOR INSIDE WIDENING IS INDICATED BY CROSS-HATCHED AREAS (TYP. ALL BRIDGE SHEETS). SEE OUTSIDE WIDENING BRIDGE SHEETS FOR REMAINING REMOVAL OF EXTERIOR PORTION OF EXISTING BRIDGES.

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

NOTE : E DENOTES EXPANSION (F) DENOTES FIXED

ANOTE : TEST PILES SHALL NOT BE LOAD TESTED UNTIL SEVEN (7) DAYS, MINIMUM, AFTER DRIVING

NOTE: USE 3" CLEAR FROM FACE OF PILE TO SPIRAL REINF. 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 THE FLY-ASH SHALL NOT BE LESS THAN 12 LBS. PER BAG OF CEMENT.

O NOTE : QUANTITY SHOWN IS ALL BRIDGE END SLAB WORK INCLUDING OUTSIDE WIDENING

NOTE: SEE BRIDGE SHEET 2 FOR EXIST. VERTICIAL CLEARANCE. SEE OUTSIDE WIDENING BRIDGE SHEETS FOR PROPOSED MINIMUM VERTICIAL CLEARANCE.

STEEL TEST PILES (HPI0×42) EACH PRETENSIONED - PRESTRESSED CONCRETE **EACH** TEST PILES (14" SQUARE) LOADING TESTS (HPIO×42) EACH $\Delta \Gamma$ EACH LOADING TESTS (14" SQUARE) 1344 STEEL PILING (HPIO×42) LIN. FT. PRETENSIONED - PRESTRESSED CONCRETE 1907 LIN. FT. PILING (14" SQUARE) 12600 STRUCTURAL STEEL LB.

LUMP SUM

CU. YD.

LB.

CU. YD.

LUMP SUM

ESTIMATED QUANTITIES -"IR" FUNDS

QUANTITY

290

60500

DESCRIPTION

STEEL REINFORCEMENT

REMOVAL OF OLD BRIDGE @ STA. 607+73.22

BRIDGE SUBSTRUCTURE CONCRETE, CLASS "A"

REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE,

UNCLASSIFIED BRIDGE EXCAVATION

(PARTIAL ONLY W.B.L. & E.B.L.-INSIDE WIDENING)

STA. 607+73.22, APPROX. 289 CU. YD. PRETENSIONED - PRESTRESSED CONCRETE GIRDERS, 1032 LIN. FT. TYPE II (SPECIALTY ITEM) O 1670 REINFORCED CEMENT CONCRETE BRIDGE END SLAB SQ. YD.

REQUIRED

WIDENING 40'-1 $\frac{7}{8}$ ", 48'-11 $\frac{3}{8}$ ", 48'-11 $\frac{3}{8}$ ", 40'-0 $\frac{3}{4}$ " PRETENSIONED - PRESTRESSED AASHTO GIRDERS, TYPE ISIMPLE SPAN _____ BR. SHT. NO. I THRU 7 WIDENING CONCRETE INT. BENTS (PILE FTGS.) _____ BR. SHT. NO. 8 AND 9 WIDENING CONCRETE AND STEEL PILE ABUTMENTS _____ BR. SHT. NO. 10 THRU 12 EXIST. ORIGINAL BRIDGE PLANS _____ BR. SHT. NO. E26 THRU E35 BR. SHT. NO. 2A OF 3A TEST BORING RECORD _______ BRIDGE GENERAL NOTES ________ STD. DWG. BGN-I(ISHT.) STANDARD DETAILS _____ STD. DWG.I-I3I(3 SHTS.) * * TRAFFIC PROTECTION ______. STD. TP-I(2 SHTS.) REINFORCED CONCRETE BRIDGE END SLAB ______ SPECIAL DWG. NO. BES-450-0 PRECAST PRESTRESSED CONCRETE PILES -----STD, DWG, NO. PSCP-1

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

ALL INTERIOR JOINTS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH BRIDGE SHEET 3A OF 3A. QUANTITIES FOR THIS WORK ARE INCLUDED IN ESTIMATED QUANTITIES SHOWN ON GENERAL

ELEVATION SHEET OF OUTSIDE WIDENING.

SPECIAL NOTE REGARDING EPOXY ADHESIVES

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

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

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

SPECIAL NOTES

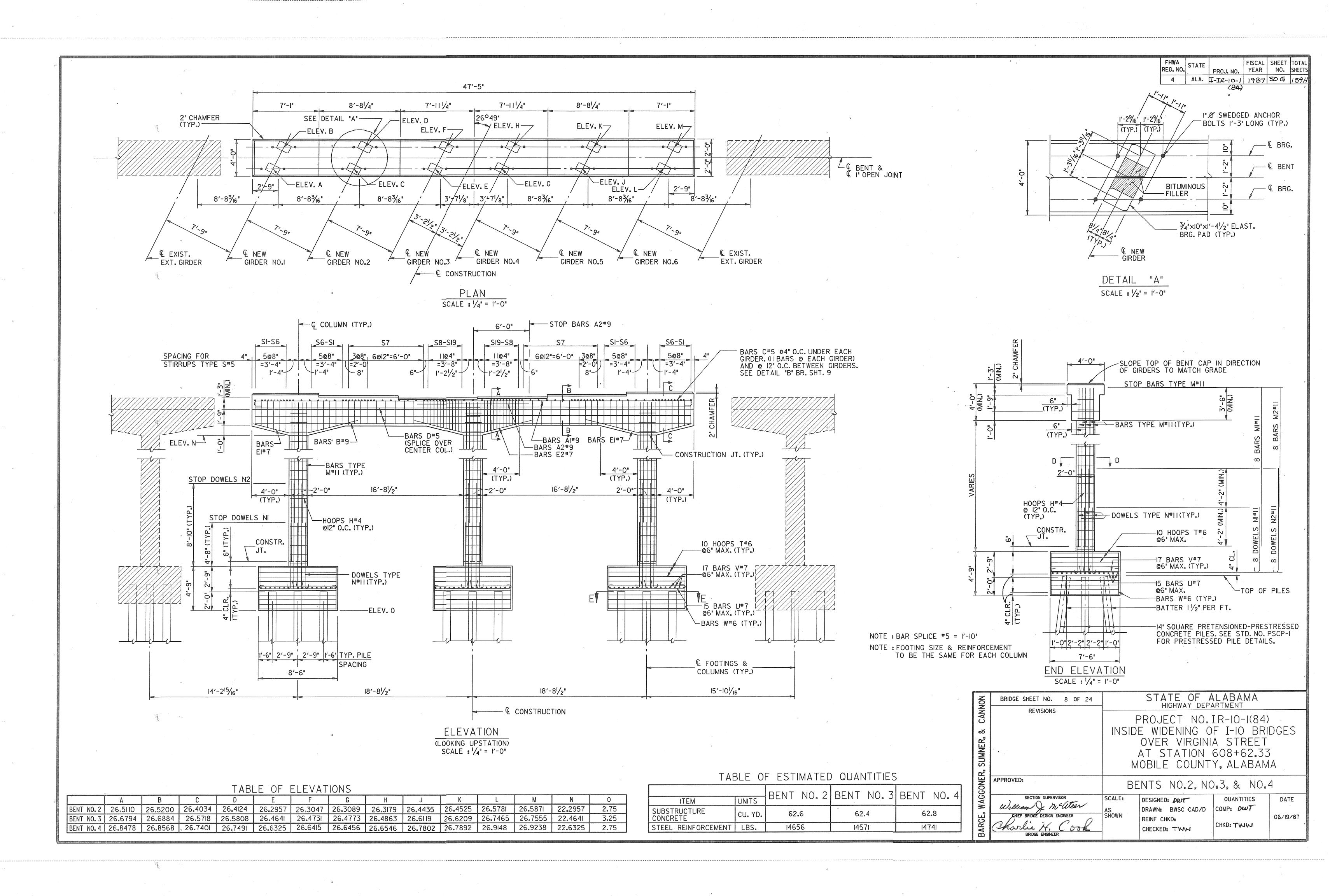
I. TEMPORARY BARRIER RAILS SHALL BE ERECTED CONCURRENT W/ REMOVAL OF EXIST. DECK, CURB. & HANDRAIL.

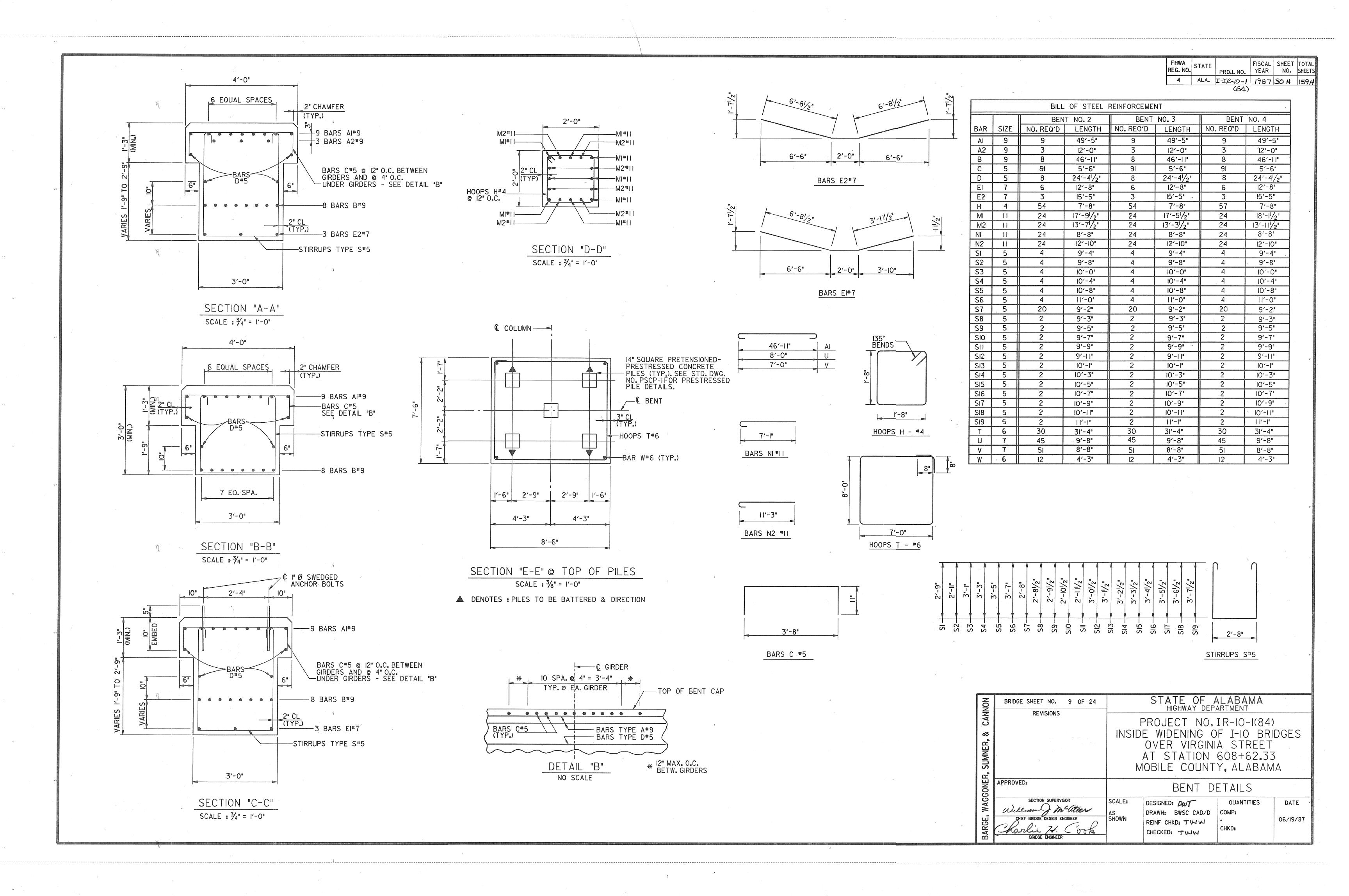
2. THE TOP OF EXIST. DECK SLAB SHALL BE SAWED A MIN. OF $\frac{1}{2}$, MAX. OF ONE (I) INCH DEEP ALONG BREAKLINE PRIOR TO REMOVING THE SUPERSTRUCTURE CONCRETE.

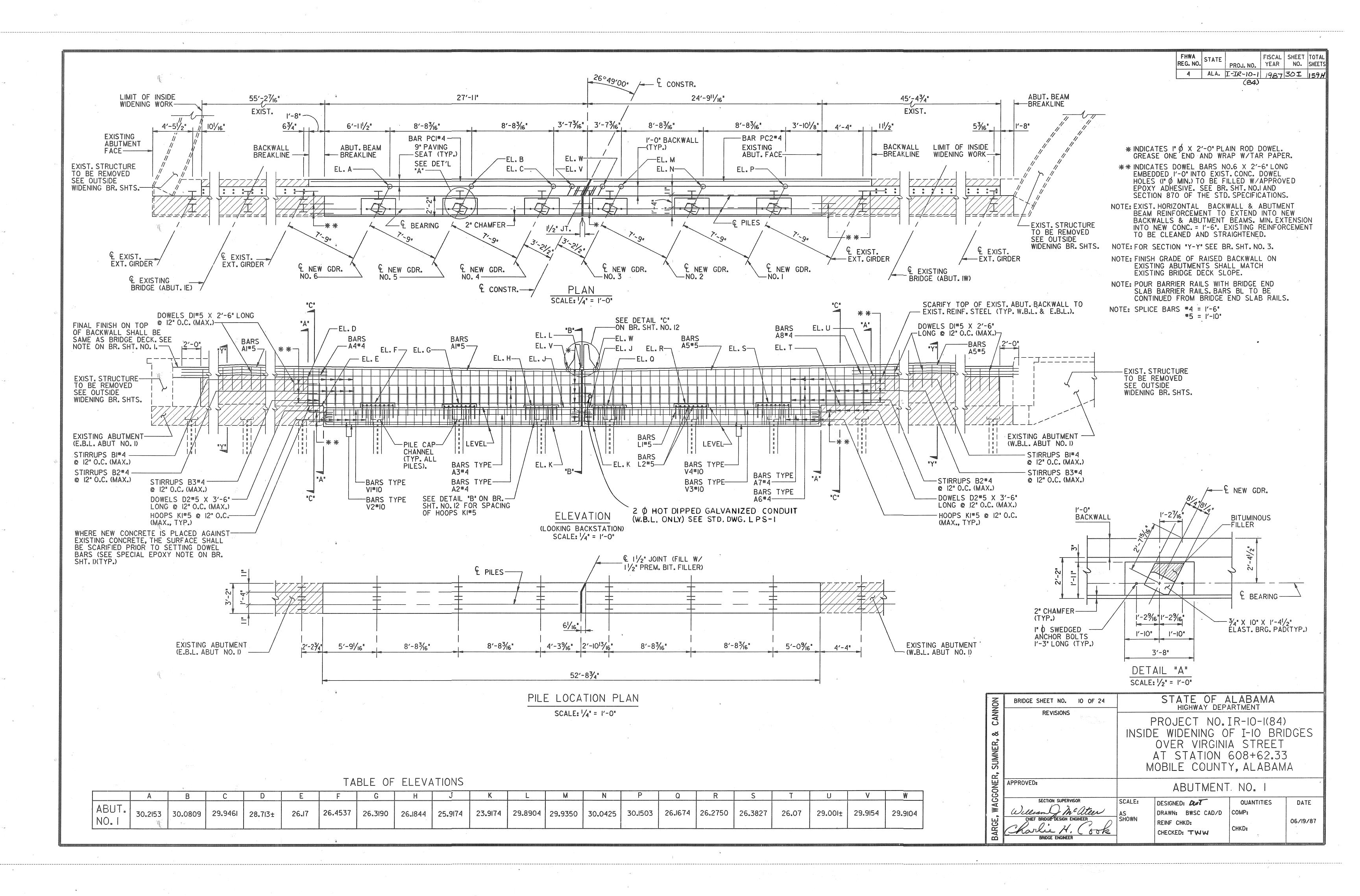
3. ALL PLAN ELEVATIONS & DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR & ANY NECESSARY ADJUSTMENTS MADE PRIOR TO ORDERING ANY MATERIAL.

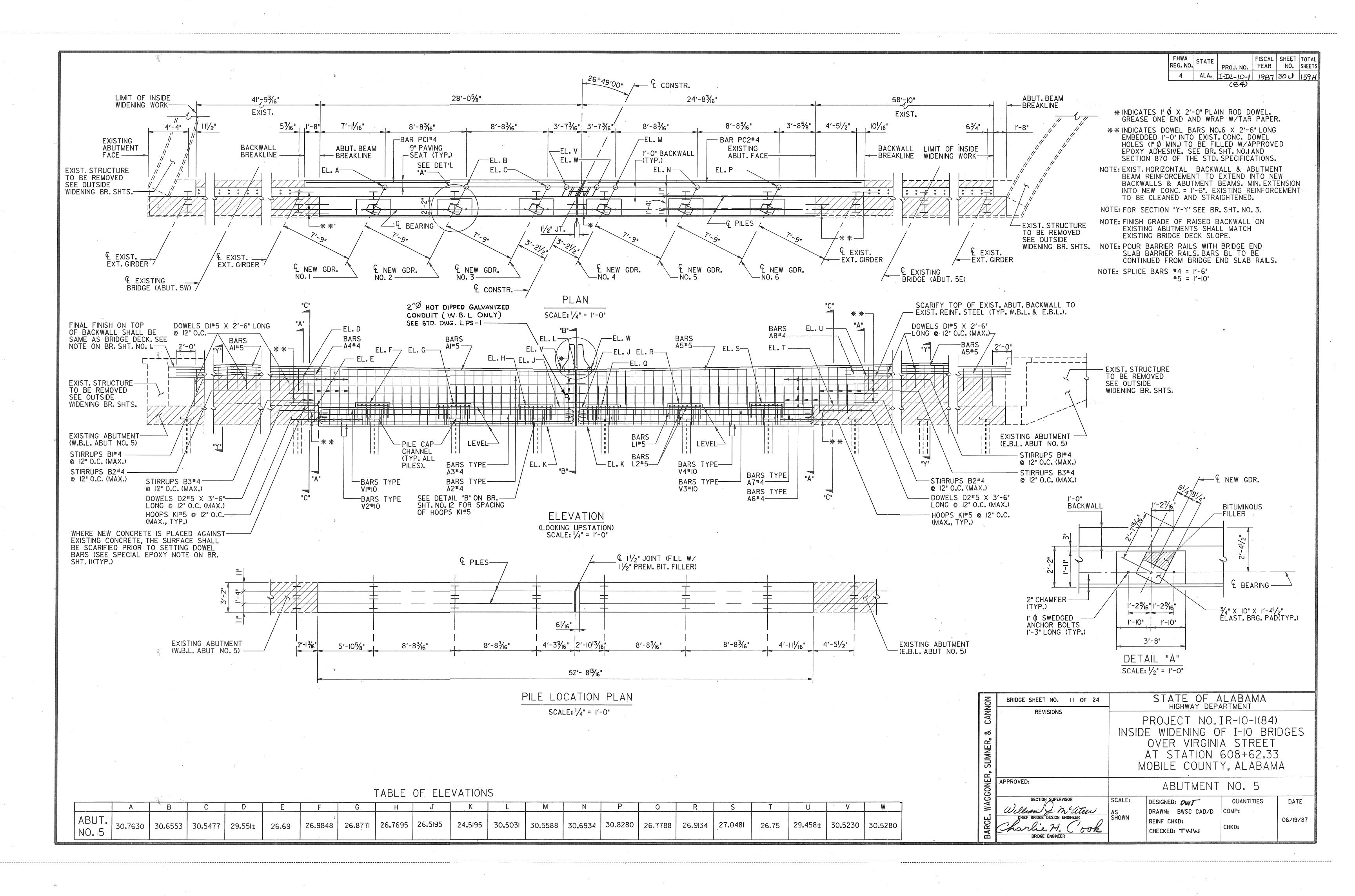
> STATE OF ALABAMA BRIDGE SHEET NO. I ICERTIFY THAT CHECKS OF (I) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION HIGHWAY DEPARTMENT REVISIONS PROJECT NO. IR-IO-I(84) BARGE, WAGGONER, SUMNER, & CANNON INSIDE WIDENING OF I-10 BRIDGES OVER VIRGINIA STREET AT STATION 608+62.33 TITLE - ENIOR MOBILE COUNTY, ALABAMA VICE-PRESIDENT **APPROVED:** GENERAL ELEVATION PROFESSIONAL * SECTION SUPERVISOR DESIGNED: DUT QUANTITIES DATE DRAWN: BWSC CAD/D COMP: DWT REINF CHKD: 06/19/87 CHKD: TWW Alabama Reg. Engineer No. 12008 CHECKED: TWW

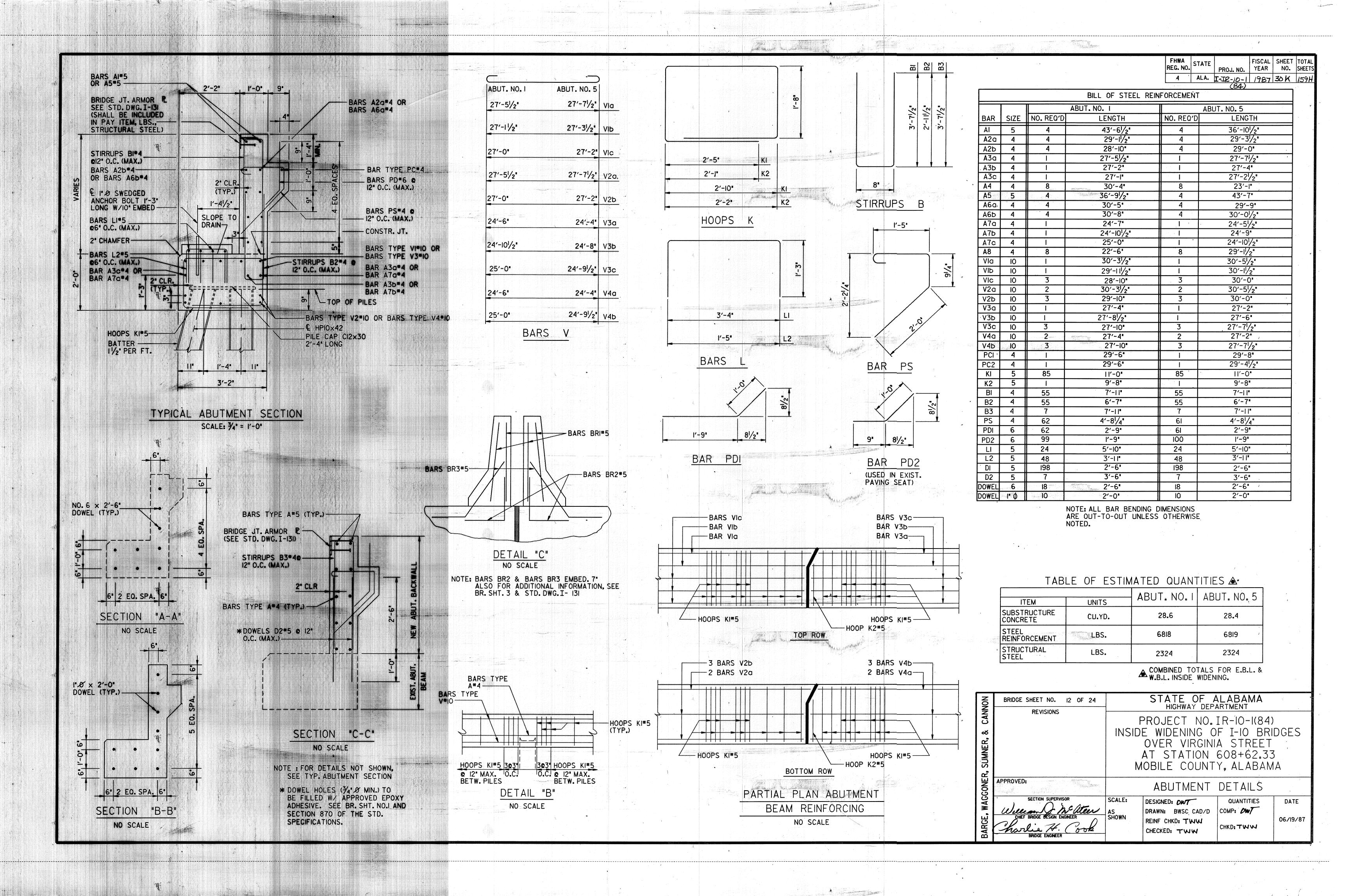
BARRIER RAIL. 2. HS20-44 AND ALTERNATE LOADING PPM20-4. DATED 8-10-56.

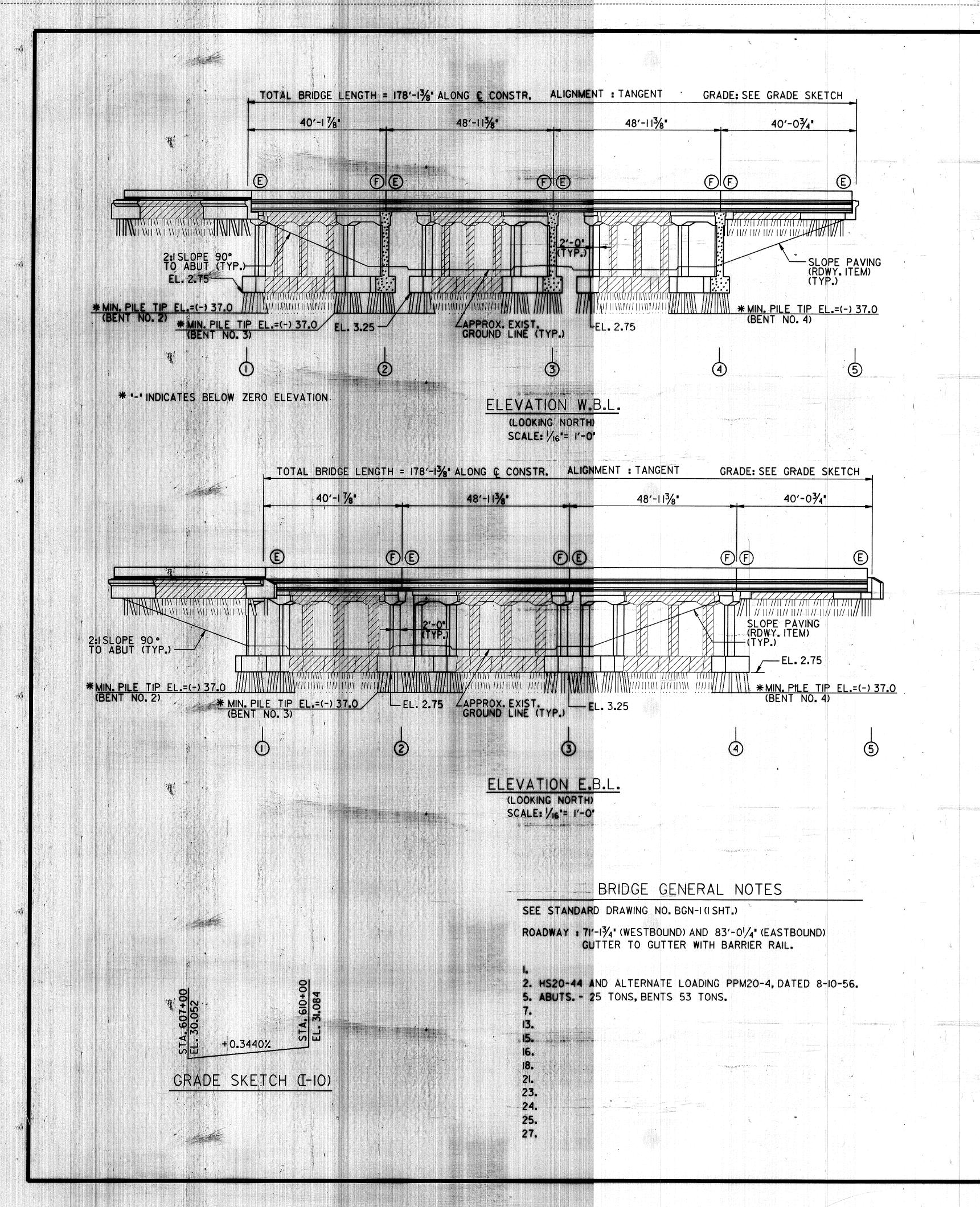












NOTE : EXISTING BRIDGE TO BE RETAINED
IS INDICATED BY CROSS-HATCHED

| FHWA REG. NO. | STATE PROJ. NO. | FISCAL SHEET TOTAL SHEETS
| FISCAL SHEET TOTAL SHEETS |
| A | ALA. | I - IR - | ID - II | 1987 | 30 L | 159 H |
| (84)

AREAS (TYP. BR. SHTS. 13-24).

ESTIMATED QUANTITIES - "IR" FUNDS

NOTE: THE FINAL BRIDGE DECK FINISH BEHIND THE

	WATED QUAN	TITLES IN TONDS
* QUANTITY	UNIT	DESCRIPTION
I	LUMP SUM	REMOVAL OF OLD BRIDGE @ STA. 607+73.22
		(PARTIAL ONLY W.B.L. & E.B.L. OUTSIDE WIDENING)
193	CU. YD.	UNCLASSIFIED BRIDGE EXCAVATION
31500	LB.	STEEL REINFORCEMENT
	EACH	STEEL TEST PILES (HP 10X42)
A Company of the Comp	EACH	PRETENSIONED-PRESTRESSED CONCRETE
		TEST PILES (14" SQUARE)
\triangle 1	EACH	LOADING TESTS (HP IOX42)
\triangle 1	EACH	LOADING TESTS (14" SQUARE)
672	LIN. FT.	STEEL PILING (HPIO×42)
■ I27I *	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE PILING (14" SQUARE)
10530	LB.	STRUCTURAL STEEL
134	CU. YD.	BRIDGE SUBSTRUCTURE CONCRETE, CLASS "A"
1	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE,
•		STA. 607+73.22,APPROX. 182 CU. YD.
344	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE GIRDERS,

SPECIAL NOTE
REGARDING EPOXY ADHESIVES

SCREED SHALL BE OBTAINED BY EITHER WOOD FLOATING OR BURLAP DRAG TO MATCH THE

EXIST. DECK FINISH.

F DENOTES FIXED

NOTE : SEE BR. SHT. 14 FOR PROPOSED MINIMUM

VERTICAL CLEARANCE.SEE INSIDE WIDENING

ANOTE: TEST PILES SHALL NOT BE LOAD TESTED UNTIL SEVEN (7) DAYS, MINIMUM, AFTER DRIVING.

NOTE: USE 3" CLEAR FROM FACE OF PILE TO SPIRAL REINF. STEEL. CONCRETE SHALL BE A FLY-ASH MIX USING TYPE II CEMENT OR TYPE I CEMENT

BRIDGE SHEETS FOR EXISTING VERTICAL CLEARANCE.

PROVIDED THE TRICALCIUM ALUMINATE CONTENT IN THE TYPE I CEMENT IS LESS THAN 8%. THE AMOUNT OF THE FLY-ASH SHALL NOT BE LESS THAN 12 LBS. PER BAG OF CEMENT.

NOTE : (E) DENOTES EXPANSION

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 T, GRADE I
EPOXY ADHESIVE.

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

SPECIAL NOTES

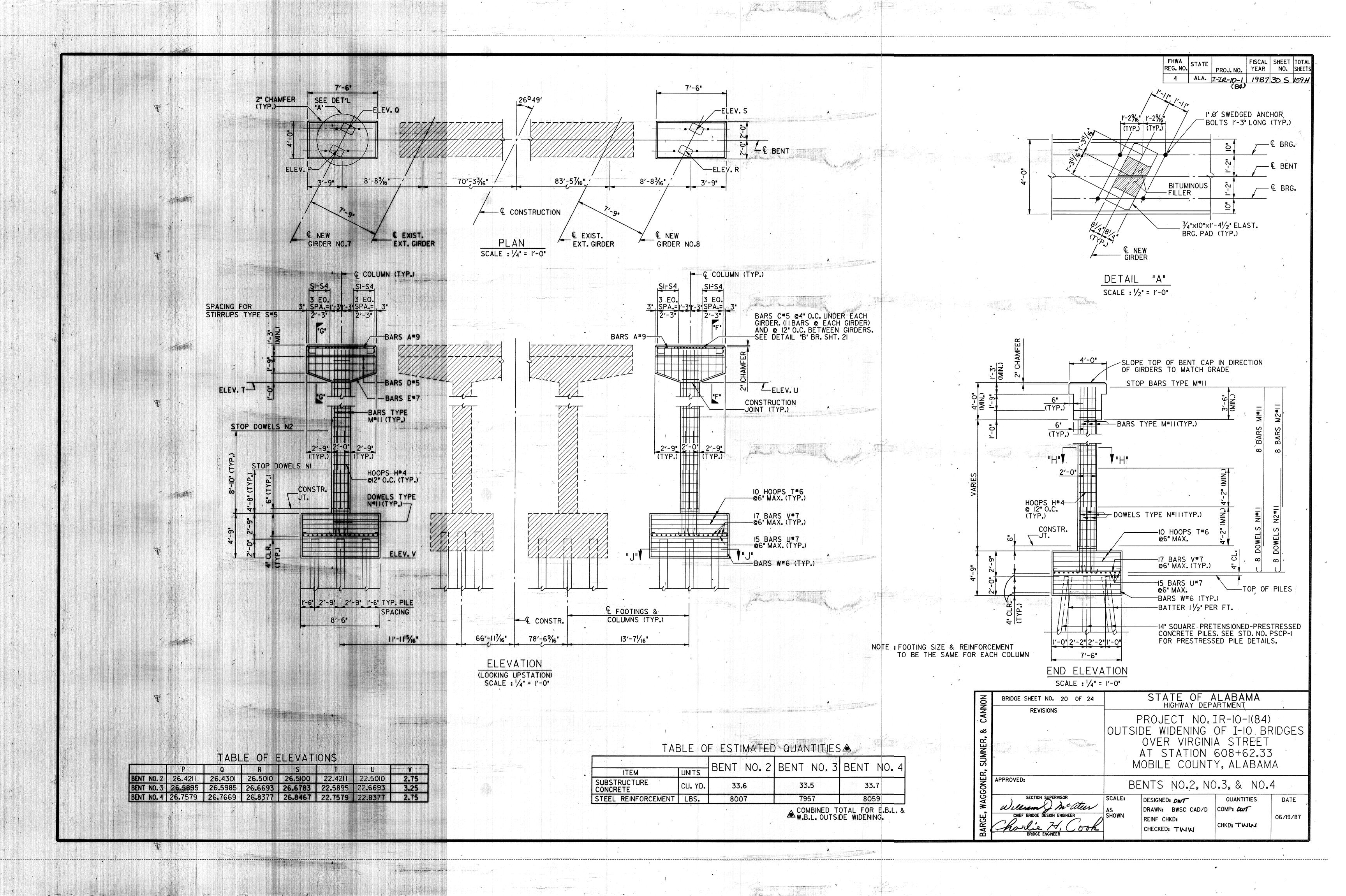
- I. TEMPORARY BARRIER RAILS SHALL BE ERECTED CONCURRENT W/ REMOVAL OF EXIST. DECK, CURB, & HANDRAIL.
- 2. THE TOP OF EXIST. DECK SLAB SHALL BE SAWED A MIN. OF 1/2", MAX. ONE (I) INCH DEEP ALONG BREAKLINE PRIOR TO REMOVING THE SUPERSTRUCTURE CONCRETE.
- 3. ALL PLAN ELEVATIONS & DIMENSIONS ARE TO BE VERIFIED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

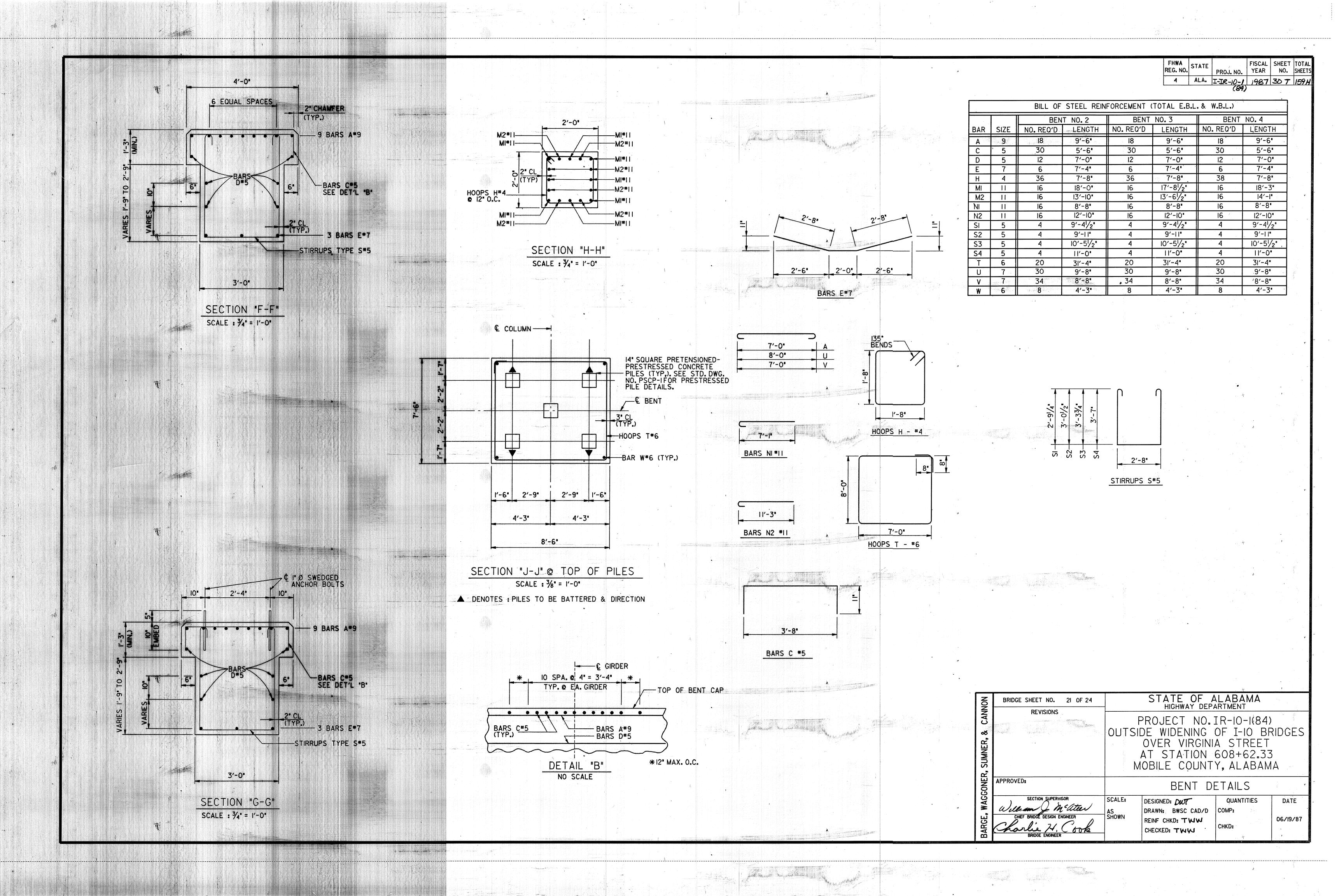
REQUIRED

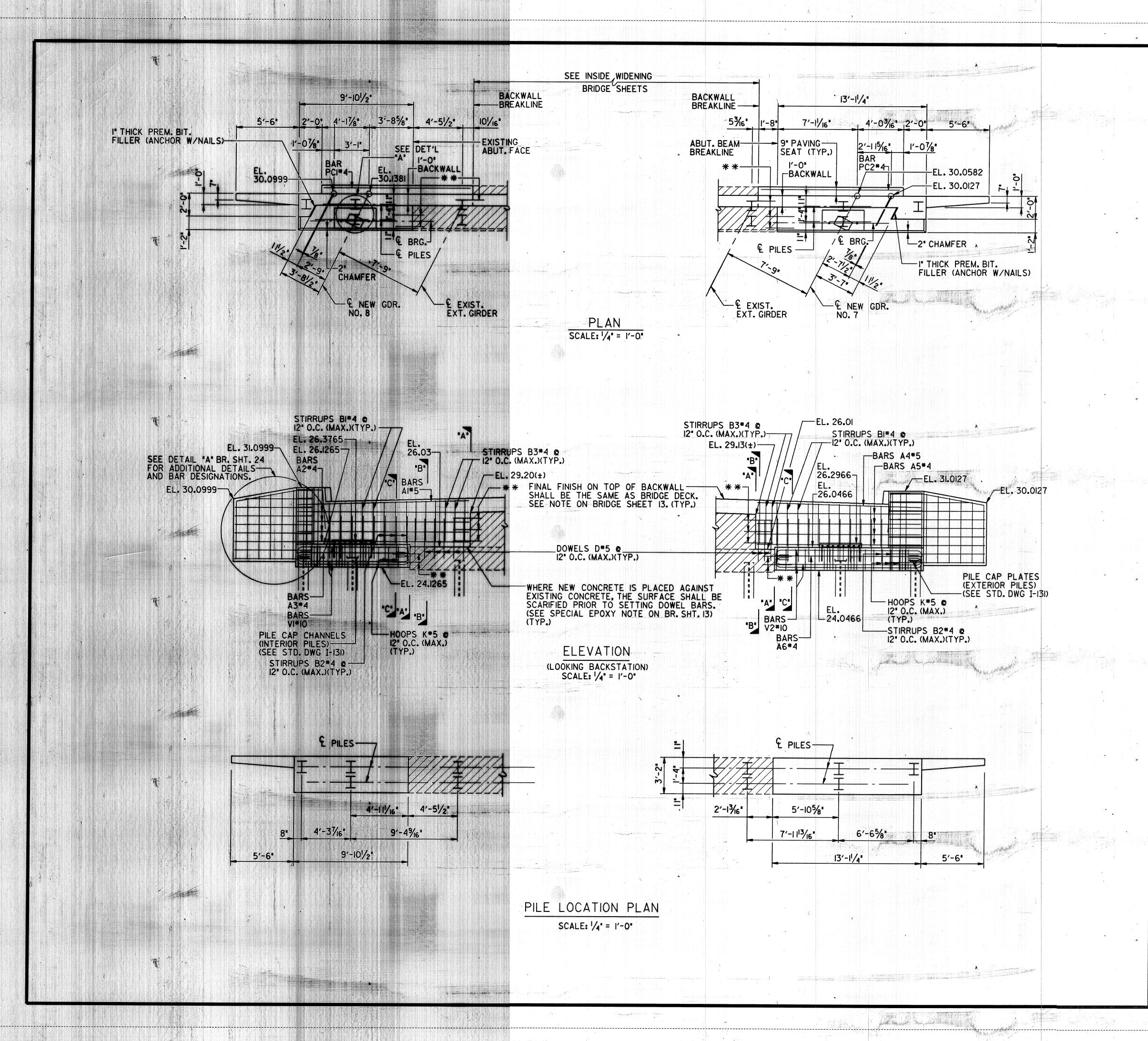
· · · · · · · · · · · · · · · · · · ·	WIDENING 40'-1 1/8", 48'-113/8", 48'-113/8", 40'-03/4" PRETENSIONED - PRESTRESSED AASHTO GIRDERS, TYPE ISIMPLE SPAN		BR. SHT. NO. 13 THRU 19
	WIDENING CONCRETE EXT. BENTS (PILE FTGS.)		BR. SHT. NO. 20 AND 21
	WIDENING CONCRETE AND STEEL PILE ABUTMENTS_		BR. SHT. NO. 22 THRU 24
Tanan sa	EXIST. ORIGINAL BRIDGE PLANS TEST BORING RECORD BRIDGE CENERAL NOTES		BR. SHT. NO. 2A OF 3A
	BRIDGE GENERAL NOTES STANDARD DETAILS		
* *	TRAFFIC PROTECTION REINFORCED CONCRETE	•	
	BRIDGE END SLAB		SPECIAL DWG. NO. BES-450-0
•	PRETENSIONED-PRESTRESSED CONCRETE PILES INTERIOR JOINT REPAIR——————		
ip.			

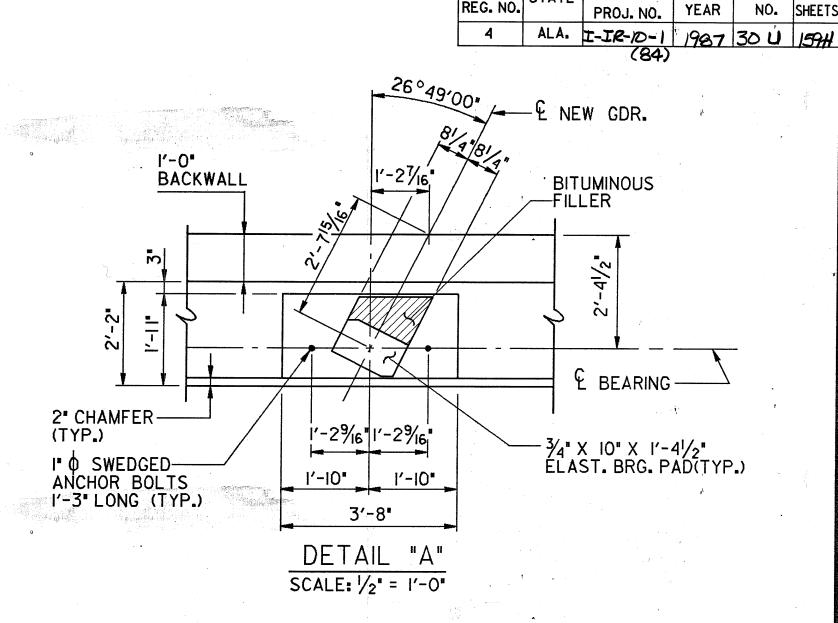
** TRAFFIC PROTECTORS WILL ONLY BE REQUIRED UNDER THE NEW CONSTR. AREAS (5'-0" MIN. OUTSIDE THE LIMITS OF NEW CONSTR.)

I CERTIFY THAT CHECKS OF (I) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION BARGE, WAGGONER, SUMNER, & CANNON 7-7-87 TITLE USENIOR VICE-PRESIDENT PROFESSIONAL	NER, SUMNER, & CANNON	BRIDGE SHEET NO. 13 OF 24 REVISIONS APPROVED:	OUTSI		ARTMENT IR-IO-I(84) OF I-IO BE A STREET 608+62.33 Y, ALABAM	RIDGES
No. 12008 No. 12008 Alabama Reg. Engineer No. 12008	BARGE, WAGGONE	SECTION SURERVISOR William of Mateur CHIEF BRIDGE DESIGN ENGINEER Charlie H, Cook BRIDGE ENGINEER	SCALE: AS SHOWN	DESIGNED: OW DRAWN: BWSC CAD/D REINF CHKD: CHECKED: TWW	QUANTITIES COMP: DUT CHKD: TWW	DATE 06/19/87









** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED I'-0" INTO EXIST. CONC. DOWEL HOLES (I" Ø MIN.) TO BE FILLED W/APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO.13 AND SECTION 870 OF THE STD. SPECIFICATIONS.

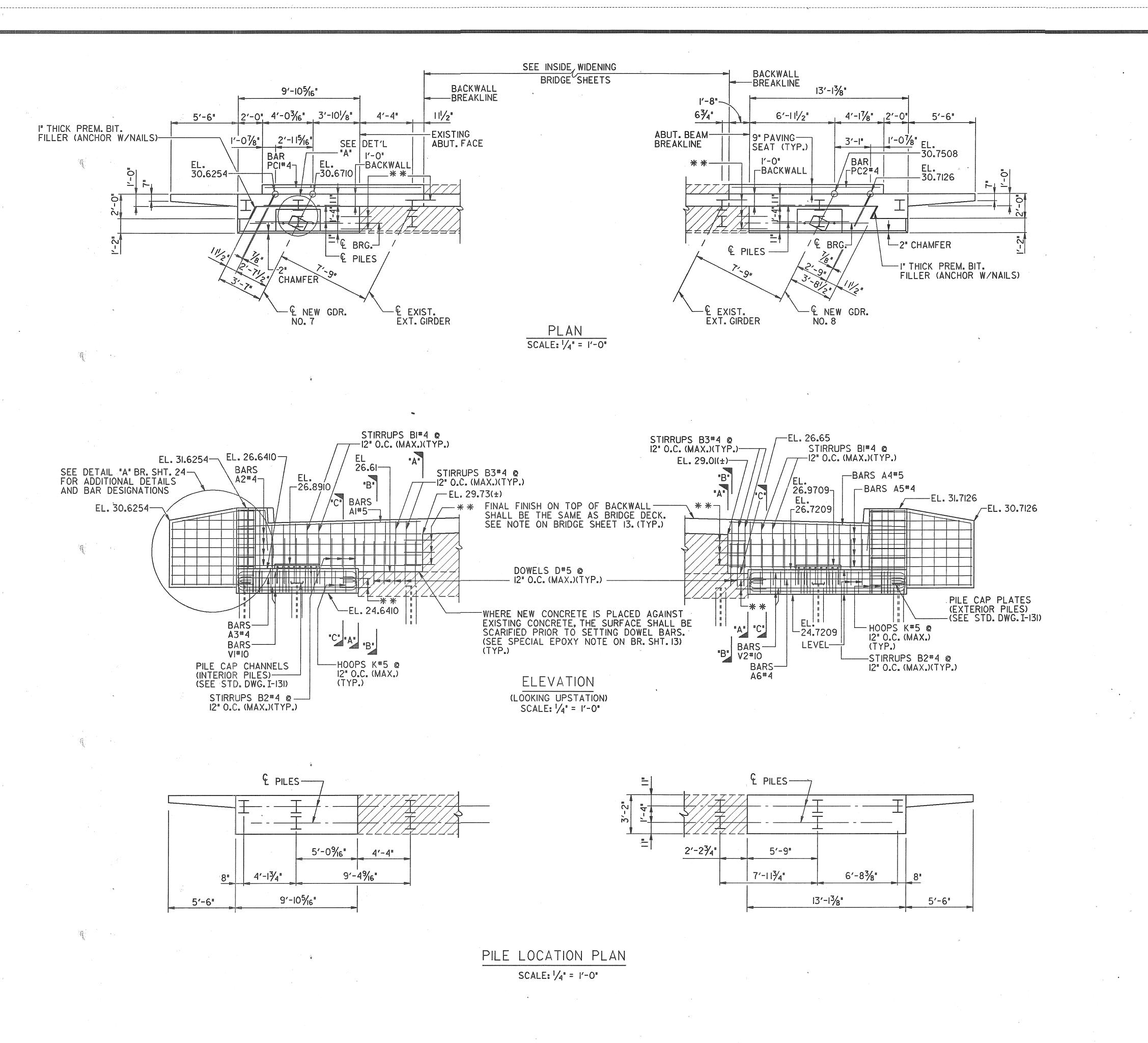
NOTE: EXIST. HORIZONTAL BACKWALL REINFORCEMENT TO EXTEND INTO NEW BACKWALLS. MIN. EXTENSION INTO NEW CONC. = I'-6". EXISTING REINFORCEMENT TO BE CLEANED AND STRAIGHTENED.

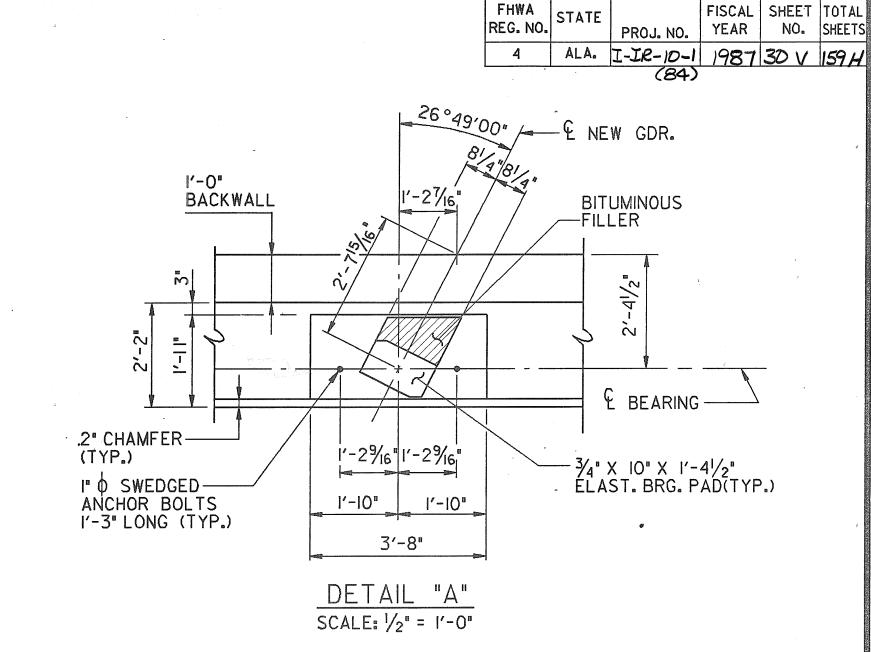
NOTE: FINISH GRADE OF RAISED BACKWALL ON EXISTING ABUTMENTS SHALL MATCH EXISTING BRIDGE DECK SLOPE.

NOTE: SEE DETAIL "B" BR. SHT. 24 FOR SPACING OF HOOPS K#5.

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

CANNON	BRIDGE SHEET NO. 22 OF 24 REVISIONS	STATE OF ALABAMA HIGHWAY DEPARTMENT					
SUMNER, &	, REVISIONS	PROJECT NO.IR-10-1(84) OUTSIDE WIDENING OF I-10 BRIDGES OVER VIRGINIA STREET AT STATION 608+62.33 MOBILE COUNTY, ALABAMA					
WAGGONER,	APPROVED:	ABUTMENT NO. I					
12	SECTION SUPERVISOR	SCALE:	DESIGNED: DWT	QUANTITIES	DATE		
	William & mater	AS	DRAWN: BWSC CAD/D	COMP:			
BARGE,	CHIEF BRIDGE DESIGN ENGINEER BRIDGE ENGINEER	SHOWN	REINF CHKD: CHECKED: TWW	CHKD:	06/19/87		





** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED I'-0" INTO EXIST. CONC. DOWEL HOLES (I" Ø MIN.) TO BE FILLED W/APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO.13 AND SECTION 870 OF THE STD. SPECIFICATIONS.

NOTE: EXIST. HORIZONTAL BACKWALL REINFORCEMENT TO EXTEND INTO NEW BACKWALLS. MIN. EXTENSIONS INTO NEW CONC. = I'-6". EXISTING REINFORCEMENT TO BE CLEANED AND STRAIGHTENED.

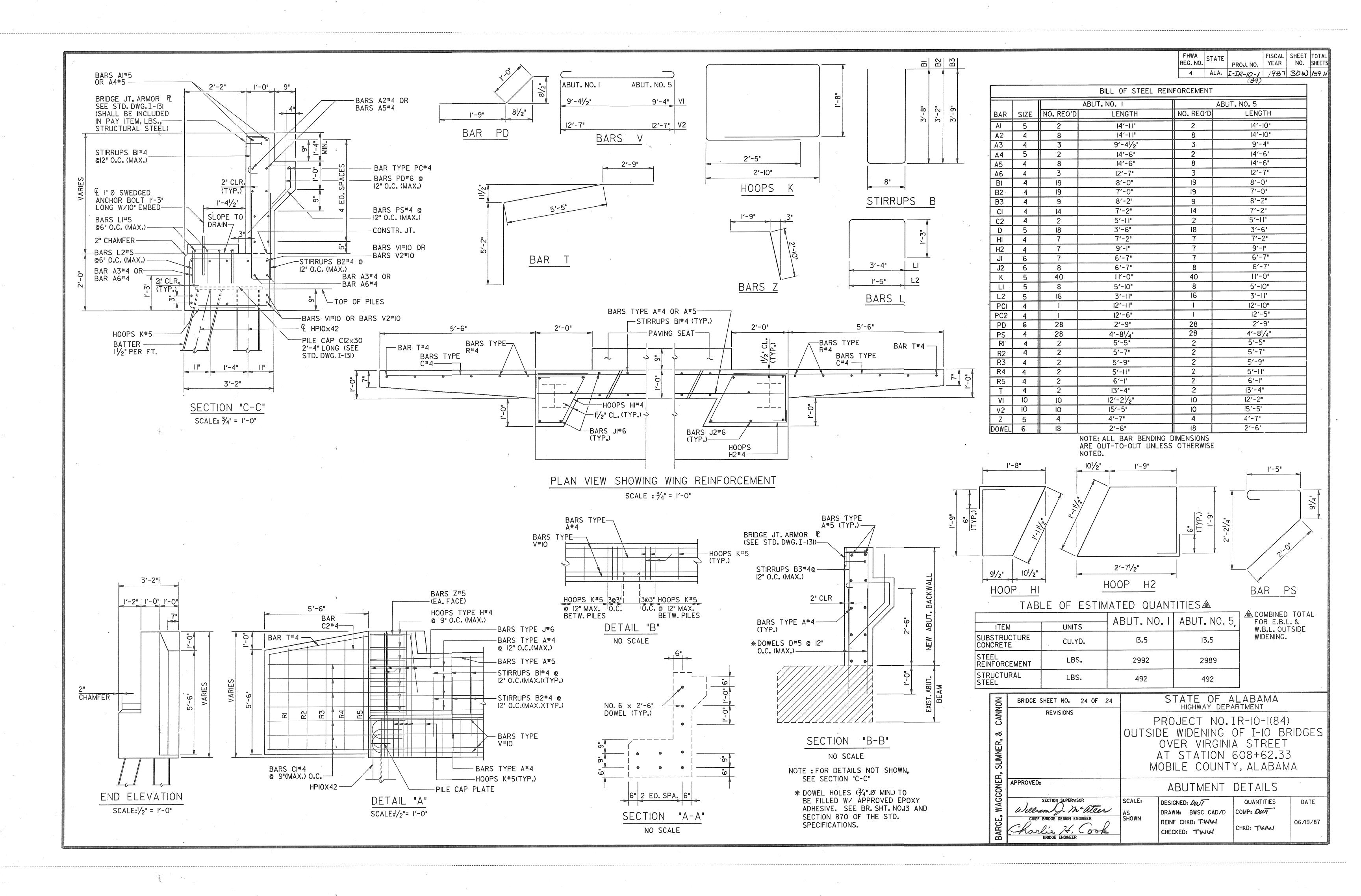
S	BRIDGE SHEET NO. 23 OF 24	STATE OF ALABAMA HIGHWAY DEPARTMENT
, SUMNER, & CANNON	REVISIONS	PROJECT NO.IR-10-1(84) OUTSIDE WIDENING OF I-10 BRIDGES OVER VIRGINIA STREET AT STATION 608+62.33 MOBILE COUNTY, ALABAMA
AGGONER,	APPROVED:	ABUTMENT NO. 5
13	SECTION/SUPERVISOR	SCALE: DESIGNED: DUT QUANTITIES DATE

DRAWN: BWSC CAD/D COMP:

06/19/87

REINF CHKD:

CHECKED: TWW



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

WARREN-LAWRENCE ST.

LOCATION: Sta. 597+99.40; C/L of I-10 ELEV. DEPTH

DESCRIPTION N CR S REMARKS I-10 over Medium moist brown very silty Warren-Lawrence clay w/sand 3.0 -11.0 Medium damp yellow & brown very silty clay w/a small amount of -3.5 17.5 sand Medium wet yellow, tan & gray very silty clay w/sand -9.0 **-23.0** Very stiff damp yellow, tan, & gray very sandy clay -15.5 29.5 -18.0 - 32.0 Dense wet white coarse sand Very dense wet yellow very stily sand w/occasional small amounts 35.5 55 of organic material

VIRGINIA ST.

LOCATION: Sta. 608+60.70; C/L of I-10 ELEV. DEPTH 10.0 0.0 DESCRI DESCRIPTION N CR S REMARKS Loose moist red sand w/clay I-10 over Virginia St. Loose damp red sand w/clay 1.2 8.8 Medium wet red & gray sand Soft wet gray, brown, & tan clay -8.0 218.0 Medium damp gray clay w/organic Medium damp brown & tan clay Medium wet tan & gray sand -25.0 -35.0 Dense wet tan coarse sand Very dense wet gray slightly coarse sand -35.0 -45.0 Very dense wet yellow & tan slightly coarse sand -50.5 60.5

TEXAS ST.

LOCATION: Sta. 622+47; 20' Rt. C/L of W.B.L. of I-10

12.0 0.0	DESCRIPTION		N	CR	S	REMARKS
9.0 -3.0	Loose moist tan, brown, & gray sand w/clay & silt					I-10 over Texas St.
2.0 =10.0	: Medium damp brown & tan clay : w/sand	5.3	6			
-4.0 16.0	Stiff wet gray & brown silty clay w/a small amount of sand	10.3				
	. Medium wet tan & gray sand . w/clay	20.3				
-14.0 26.0		25.3	15			
	Dense wet tan coarse sand	30.3	37			
-26.0 38.0		35.3	41			
	Very dense wet yellow & tan sand	40.1	50 .8			
-36.8 -48.8	:	45.3	54			
-382 <u>-</u> 5a.2	: Very dense wet gray sand	50.2	50 .9			

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)

5 CR - IS % CORE RECOVERY, NX OR AX DESIGNATES BIT SIZE (ASTM D-2113)

BRIDGE SHEET NO. 2 A OF 3A REVISIONS	STATE OF ALABAMA HIGHWAY DEPARTMENT				
	PROJECT NO.I-IR-10-1(84) WIDENING OF I-10 BRIDGES OVER BROAD ST., TENN. ST., WARLAW. ST., VIRGINIA ST., AND TEXAS ST. MOBILE COUNTY, ALABAMA				
APPROVED:	TEST BORING RECORD				
SECTION SORERVISOR	SCALE:	DESIGNED:	QUANTITIES	DATE	
CHIEF BRIDGE DESIGN ENGINEER		DRAWN: G.W.	COMP:	MARCH	
Charlie H. Cook BRIDGE ENGINEER		TRACED: F.B.	СНКD:	1986	