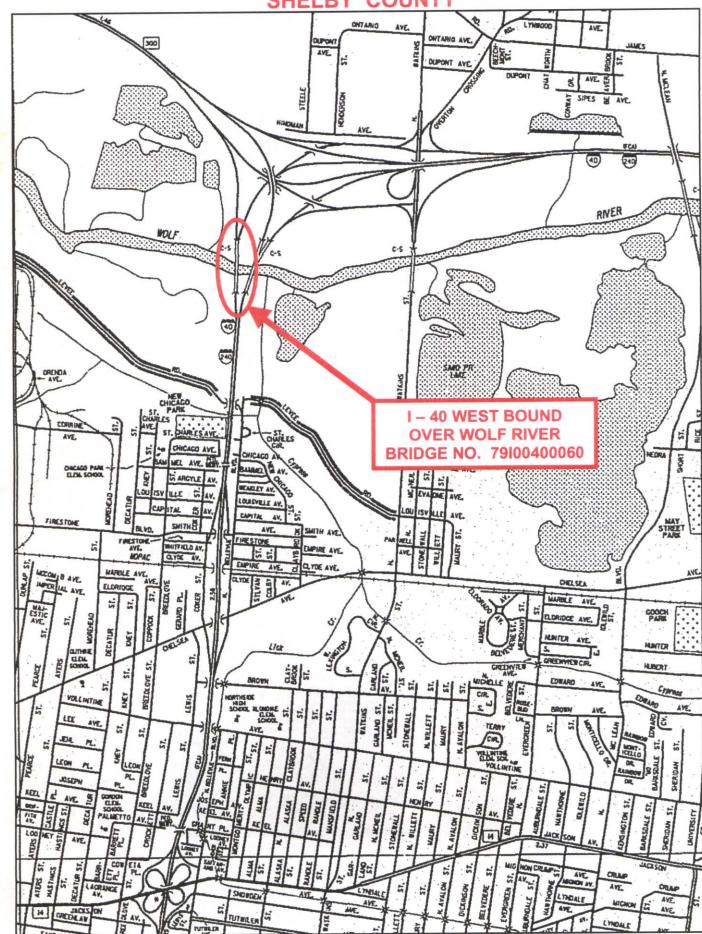
SHELBY COUNTY



STATE OF TENNESSEE TENNESSEE DEPARTMENT OF TRANSPORTATION Bridge Inspection & Repair Office Suite 1200, JKP Building Nashville, Tennessee 37243-0338

July 1, 1996

Mr. Tom Everett Bridge/Safety Management Engineer Federal Highway Administration 249 Cumberland Bend Nashville, Tennessee 37228

SUBJECT: I-40 over Wolf River, Shelby County, Bridge Number 79-10040-5.09

Dear Mr. Everett:

We recently received information that we requested from Mr. Bill Hazlerig concerning possible additional channel migration of the captioned bridge. The inspectors utilized a sonar instrument to determine elevations of the channel bottom and embankments that were under water. Instrument readings indicated that there was no change in the channel and embankment elevations or channel migration. We have plotted the profiles of the channel under spans 5, 6, and 7 to show the channel profiles over the past 5 years. At this time we are confident that the bridge is in no danger due to scour or channel migration. Attached is a copy of the drawing showing the profiles.

We have plans to do additional cross sections of the channel as soon as the water level lowers. Should you have any further questions pertaining to the bridge, please let us know.

Yours very truly

Helind. Dachett

Hollis I. Tackitt Civil Engineering Manager 2

Attachment HIT:hit

ci File

File in Report

26



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION AND REPAIR OFFICE NASHVILLE, TENNESSEE 37243-0338

March 14, 1991

Mr. William L. Moore, Jr. Regional Engineering Director P. O. Box 429, 120 State Street Jackson, TN 38301

> RE: Contract Maintenance Bridge No. 79-I40-5.09, L and R Lanes/Wolf River Shelby County

Dear Mr. Moore:

We wish to inform you of our plans to schedule the following scour bridge repair project for the May 10, 1991, letting. We have listed the tentative items of repair that we plan for the bridge. Please review these and if your personnel can add any input to our proposed repairs, we will certainly appreciate it.

PROPOSED REPAIRS

1) Excavation and placement of rip-rap.

If we can be of any further assistance, please contact us.

Yours very truly, Mile Jawn (for) Larry E. Hinds

Civil Engineering Manager 2 Bridge Inspection and Repair Office

RBG:gap

- cc: Mr. Richard Gentry
 - Mr JIM AKIN
 - MY CHARLIE HUNTER
 - Mr RAY BRISSON

STATE OF TENNESSEE TENNESSEE DEPARTMENT OF TRANSPORTATION Bridge Inspection & Repair Office Suite 1200, JKP Building Nashville, Tennessee 37243-0338

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Yours very truly

Hollind. Sachut

Hollis I. Tackitt Civil Engineering Manager 2

Attachment HIT:hit COUNTY: SHELBY LOCATION: 79-10040-05.09-L CO. SEQ.: 1 SPEC. CASE: 0

CROSSING: 140-LL / WOLF RIVER FED. BRIDGE NO.: 79100400060 MAINT. DIST.: 79



REPAIR LIST NO.: 3 DATE ADDED: 11/10/2003 REVISED:

FACILITY CARRIED:		I40-LL	NUMBER OF MAIN SPANS:	11			
HIGHWAY SYSTEM:	02-INTERSI	ATE URBAN	NUMBER OF APPROACH SPANS:	0			
BRIDGE WIDTH (CURB TO CURB):	71	FT 10 IN	BRIDGE LENGTH (FT):	751			
BRIDGE WIDTH (OUT TO OUT):	74	FT 1 IN	MAXIMUM SPAN LENGTH (FT):	76			
APPROACH ROADWAY (W/SHOULDER	3): 71	FT 10 IN	SKEW ANGLE (DEGREES):	90			
MAINTAINED BY:			STATE HIGHWAY AGENCY				
MAIN SPAN MATERIAL:	I	PRESTRESSEI	O CONCRETE CONTINUOUS				
MAIN SPAN DESIGN TYPE:		STRINGER/MULTI-BEAM OR GIRDER					
APPROACH SPAN MATERIAL:		OTHER OR NOT APPLICABLE					
APPROACH SPAN DESIGN TYPE:		OTHER OR NOT APPLICABLE					
INSPECTION DATE: 07,	/15/2003	G	ENERAL CONDITION:	FAIR			
	/09/2003	S	TRUCTURALLY DEFICIENT:	NO			
PROPOSED REPLACEMENT:		_		92.1			
H TRUCK RATING @ INV.:	20 TONS	S	SUFFICIENCY RATING:				

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY	
1.	INSTALL SCOUR PROTECTION AT BENT NO. 3			
2.	CLEAR DRAINS			
3.	CLEAR DRIFT			
4.	CLEAR APPROACH DRAINS.			
5.	APPROACH GUARDRAILS ARE SUBSTANDARD			
6.	REPAIR EMBANKMENT EROSION AT ABUTMENT NO. 1		<u> </u>	

COMMENTS:

ADDED TO REPAIR LIST DUE TO CHANNEL MIGRATION BEING REPORTED.

Bridge Maintena	ance Recomm	nendations	Page No
Bridge Location No.: 79 - I	0040 - 0509 т		Page 1 of 1
Co. R	Route Log Mile	Under/Over Pass No.:	-
Crossing: WOLF RIVER Road Name:		Bridge Number: Region: 04	79100400060
Road Name #2: Bridge Rating: FAIR		District: 45 Maint.Resp.: 01	Spec.Case: 0 Co.Seq: 01
Inspection Cycle: 15 Inspection Date: 8/2/01 Comments:	County: Shelby City:		Co.Seq: 01 ² 'x ' Length Width

Maintenance Recommendations:

Maintenance Completed

001 LEVEL APPROACH NO1 & 2 009 CLEAN DRAINS AT APPROACH NO1 & 2 143 CLEAN DRAINS AT APPROACH NO1 & 2 144 CLEAN DRAINS IN SPAN NO2 THRU 9 104 CUT VEGETATION 101 CLEAN DRIFT 28 APPROACH GUARDRAILS ARE SUBSTANDARD	226	GUARDRAIL TERMINALS AT APPROACH NO. 1	by/date
209 CLEAN DRAINS AT APPROACH NO1 & 2 243 CLEAN DRAINS IN SPAN NO2 THRU 9 204 CUT VEGETATION 21 CLEAN DRIFT 28 APPROACH GUARDRAILS ARE SUBSTANDARD WPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE. TAL AND DATE RECOMMENDATIONS WHEN COMPLETED.	001	LEVEL APPROACH NO. 1 & 2 LEVEL APPROACH NO. 1 & 2	
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		AND DATE RECOMMENDATIONS WHEN COMPLETED	
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MAINTENANCE ACTIVITIES ARE PARTIALLY	
MAINTENANCE ACTIVITIES AND	$\sim O_{\rm IV} = L = I = D (D = T = T)$

(DATE) _____ BY ____ ENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) EXPLANATIONS AND COMMENTS:

	TE OF TENNESSEE	f		Co	dir	ng Fe	or	County:	79
	ENT OF TRANSPOR							Route:	10040
								Special Case:	0
	ige Number: udes Item 5A)		79100-	40006	01			County Sequence:	01
Feature	Intersected:	I40-	LL/W	OLF R	RIVER			Log Mile:	5.09
CODE	ONLY THOSE	VALUES	WHIC	<u>СН Н/</u>	VE (CHANG	ED	<u> </u>	
ITEM #	DESCRIPTION			VALU	IE				
90	INSPECTION DA	TE	0	9/16/1	1999]	(Va	liues for Coding Items 58, 59,	60 and 62)
		-	81	2	2	001	Ν	NOT APPLICABLE	
10	MINIMUM V.C. O (ROADWAY + SI			FT.	99	IN.	9	EXCELLENT CONDITION	I
				FT _		IN.	8	VERY GOOD CONDITION PROBLEMS NOTED.	- NO
520	MINIMUM V.C. O (EXCLUDES SH		99	FT.	99	IN.	7	GOOD CONDITION - SOM	E MINOR PI
				FT.		IN.	6	SATISFACTORY CONDIT DETERIORATION OF STR ELEMENTS.	
36	TRAFFIC SAFET Br. Rail Trar			Appr.	Rail E	inds	5	FAIR CONDITION - ALL	
	1 0	2	0	0				STRUCTURAL ELEMENT MAY HAVE MINOR SECTOR CRACKING, SPALLING O	ION LOSS,
41	STRC OPEN/CLO	OSED/POST	ED.	A			4	POOR CONDITION - ADV	
	Α	к р						LOSS, DETERIORATION, SCOUR.	SPALLING
58	DECK			6			3	SERIOUS CONDITION - L DETERIORATION, SPALL SERIOURSLY AFFECTED	ING OR SCO
59	SUPERSTRUCT	URE		7				STRUCTURAL COMPONE FAILURES ARE POSSIBL IN STEEL OR SHEAR CR	ENTS. LOCA
60	SUBSTRUCTUR	E		7				MAY BE PRESENT.	
61	CHANL/CHANL	PROTECTIC	N	6			2	CRITICAL CONDITION - A DETERIORATION OF PRI ELEMENTS. FATIGUE CI	MARY STRL RACKS IN S
62	CULVERT AND	RETAIN WA	ԼԼ	N				SHEAR CRACKS IN CON PRESENT OR SCOUR MA SUBSTRUCTURE SUPPO CLOSELY MONITORED I	AY HAVE RE ORT. UNLES
71	WATERWAY AD	EQUACY		×.	/ 7			NECESSARY TO CLOSE CORRECTIVE ACTION IS	THE BRIDG
72	APPROACH RDV (USE VALUES O			8			1	"IMMINENT" FAILURE CO DETERIORATION OR SEC PRESENT IN CRITICAL S COMPONENTS OR OBVIO	CTION LOSS
521	OVERALL COND	ITION (Circ	le One	*)				HORIZONTAL MOVEMEN	T AFFECTIN
	GOOD F	AIR	POOF	- २	CRI	TICAL		STRUCTURAL STABILITY CLOSED TO TRAFFIC BU ACTION MAY PUT BACK	JT CORREC
				01	2,	2001	n	FAILED CONDITION - OU	

	DATA ENTRY JO		TRIMS KEY
ITEM #	DESCRIPTION	VALUE	COMMENTS
90	INSPECTION DATE	08 / / 95 12 / 11 / 97	RATINGS FOR CODING ITEMS 58 THRU 62
10	MINIMUM V. C. OVER DECK (PAVEMENT + SHOULDERS)	99 FT. 99 IN. FTIN.	N NOT APPLICABLE 9 EXCELLENT CONDITION
14	MINIMUM V. C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. FTIN.	8 VERY GOOD CONDITION- NO PROBLEMS NOTED 7 GOOD CONDITION- SOME MINOR PROBLEMS
54	MINIMUM VERTICAL H R N UNDERCLEARANCE	00 FT, 00 IN. FT,IN.	6 SATISFACTORY CONDITION-
36	TRAFFIC SAFETY FEATURE	$\frac{1}{2} \frac{0}{2} \frac{1}{2} \frac{0}{2} $	5 FAIR CONDITION-PRIMARY STRUCTURAL DEFECTS, SOUND BUT SHOW MINOR
41	STRC OPEN/CLOSED/POSTED A K P	A SUBSTAND 	6 SECTION LOSS, SCOUR, CRACKING, SPALLING 4 POOR CONDITION-
58	DECK	6	DETERIORATION, SCOUR, SPALLING
59	SUPERSTRUCTURE	7	3 SERIOUS CONDITION-LOSS OF SECTION, DETERIORA- TION, SPALLING, SCOUR SERIOUSLY EFFECT
60	SUBSTRUCTURE	7 REP	ALC SERIOUSLY EFFECT PRIMARY MEMBERS, A FAILURES POSSIBLE,
61	CHANL/CHANL PROTECTION	7 6 1 6 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1	 FATIGUE OR SHEAR CRACKS POSSIBLE CRITICAL CONDITION-
62	CULV & RETAIN WALL	N	ADVANCED DETERIORATION OF PRIMARY ELEMENTS OR FATIGUE OR SHEAR CRACKS OR SEVERE SCOUR COND-
72	APPROACH RDWY ALIGNMENT (CODE 3, 6, OR 8 UNLESS NECESSARY)	8	ITION, MAY REQUIRE CLOSURE FOR REPAIRS I IMMINENT FAILURE CONDITION-MAJOR SECTION
	OVERALL CONDITION		LOSS OR CRITICAL COND-
	G00D POOR	$\underline{\alpha}$	ITION OF STRUCTURAL COMPONENT OR UNSTABLE OR CLOSED BUT REPAIR-
•	FAIR CRIT		ABLE FOR LIGHT TRAFFIC O FAILED CONDITION-OUT OF SERVICE AND BEYOND CORRECTIVE ACTION
	SIGNATURE	DATE	CORVECTIVE ACTION

TENNESSEE BRIDGE INSPECTION PROGRAM SUMMARY OF EVALUATION

BRIDGE ID NO: 79100400060 (6A) CROSSING: 1-40 W.B. / WOLF	RIVER	LOCATION NO: 79 - 10040 - 5.01 L
(505) METHOD OF ANALYSIS: LC		ATING BASED ON: AASHTOWare Bridge Rating (4" Asphalt)
LOAD RATINGS	IN TONS	(549) EVALUATOR: DCD
INVENTORY (503) H 32	(518B) HS 28	(522) EVAL. DATE: 11/15/2018 LAST UPDATED BY: LINER
OPERATING (504) H 42	(519) HS 36	(29) ADT: 119,200 (30) ADT YR: 2019
REQ. POSTING:		(100) STRAHNET ROUTE: YES (19) DETOUR LENGTH: 1 KM
		(520) VC OVER RDWY: 99.99 METERS
CONDITION RATINGS	APPRAISAL RATINGS	<u>S</u> <u>CODE VALUES</u>
(58) DECK RATING:	7 (67) STRUCTURAL EVA	ALUATION: 6 N - NOT APPLICABLE
(59) SUPERSTRUCTURE RATING:	7 (68) DECK GEOMETRY:	7 9 - EXCELLENT CONDITION
(60) SUBSTRUCTURE RATING:	6 (69) UNDER CLEARAN	CE: N 8 - VERY GOOD CONDITION
(61) CHANNEL PROTECTION:	6 (70) BRIDGE POSTING	: 5 7 - GOOD CONDITION
(62) CULVERT RATING:	N (71) WATERWAY ADEQ	QUACY: 8 6 - SATISFACTORY
(113A) NBIS SCOUR CODE:	5 (72) APPROACH RDWY	Y ALIGNMENT: 8 5 - FAIR CONDITION
(113B) TDOT SCOUR CODE:	С	4 - POOR CONDITION
OTHER RATING ITEMS		3 - SERIOUS CONDITION
(521) OVERALL CONDITION:	F	
(513) TEXTURE COAT RATING:	F 10 (36) TRAFFIC	
(514) PAINT CONDITION RATING		
(41) WEIGHT POSTING CODE:	A (525) REPAI	

<u>COMMENTS</u>

IN 1998 AN EXTENSIVE AMOUNT OF RIP-RAP WAS PLACED (BY THE REGION) ON THE NORTH BANK AND AN OLD COFFER DAM WAS REMOVED FROM UPSTREAM. IN THE NEXT INSPECTION AFTER THESE REPAIRS IT APPEARS THAT THE RIP RAP ON NORTH BANK SEEMS TO BE DIVERTING THE CHANNEL TOWARD THE SOUTH BANK (BENT NO. 3). MONITOR SCOUR CONDITION (ESPECIALLY AT BENT NO. 3.)

2016 - COLUMNS B, C, & D HAVE INCREASED IN EXPOSURE BUT FOOTING IS NOT VISABLE.

11/15/2018 THE CHANNEL IS ENCROACHING ONTO BENT #3. (MONITOR) (BTH)

Bridge Name: I-240 WB over Wolf River NBI Structure ID: 79100400060 Bridge ID: 79100400060

Analyzed By: bridgeware Analyze Date: Friday, May 22, 2020 12:13:37 Analysis Engine: AASHTO LRFR Engine Version 6.8.1.3001 Analysis Preference Setting: None

Report By: bridgeware Report Date: Friday, May 22, 2020 14:35:00

Structure Definition Name: Spans 1 - 10 **Member Name:** G1 **Member Alternative Name:** Typical Exterior

Load and Resistance Factor Rating Summary

		Rating	Girde	er Summary Capacity	T	Location			
Live Load		Factor	Controls	(Ton)	Span	(ft)	Percent	Impact	Lane
Annual Permit 1	Permit	1.038	STRENGTH-II Concrete Flexure	85.66	9	75.42	100.0	As Requested	As Requested
Annual Permit 2	Permit	1.165	STRENGTH-II Concrete Flexure	96.13	9	75.42	100.0	As Requested	As Requested
EV2	Legal	2.623	STRENGTH-I Concrete Flexure	75.42	9	75.42	100.0	As Requested	As Requested
EV3	Legal	1.748	STRENGTH-I Concrete Flexure	75.15	9	75.42	100.0	As Requested	As Requested
Gravel Truck	Legal	1.832	STRENGTH-I Concrete Flexure	67.79	9	75.42	100.0	As Requested	As Requested
Gravel Truck + Lane Load	Legal	1.247	STRENGTH-I Concrete Flexure	69.23	9	75.42	100.0	As Requested	As Requested
Н 15-44	Inventory	2.155	STRENGTH-I Concrete Flexure	32.33	9	75.42	100.0	As Requested	As Requested
Н 15-44	Operating	2.794	STRENGTH-I Concrete Flexure	41.91	9	75.42	100.0	As Requested	As Requested
HL-93 (US)	Inventory	0.768	STRENGTH-I Concrete Flexure	27.64	9	75.42	100.0	As Requested	As Requested
HL-93 (US)	Operating	0.995	STRENGTH-I Concrete Flexure	35.83	9	75.42	100.0	As Requested	As Requested
HS 20-44	Inventory	1.485	SERVICE-III PS Tensile Stress	53.45	10	37.58	50.4	As Requested	As Requested
HS 20-44	Operating	2.068	STRENGTH-I Concrete Flexure	74.45	9	75.42	100.0	As Requested	As Requested
Lane-Type Legal Load	Legal	1.499	STRENGTH-I Concrete Flexure	59.95	9	75.42	100.0	As Requested	As Requested
Overweight Permit	Permit	1.301	STRENGTH-II Concrete Flexure	165.93	9	75.42	100.0	As Requested	As Requested
SU7	Legal	1.787	STRENGTH-I Concrete Flexure	69.24	9	75.42	100.0	As Requested	As Requested
School Bus - Standard	Legal	4.706	STRENGTH-I Concrete Flexure	68.23	9	75.42	100.0	As Requested	As Requested
Type 3S2	Legal	2.201	STRENGTH-I Concrete Flexure	79.24	9	75.42	100.0	As Requested	As Requested

Note:

"N/A" indicates not applicable

"**" indicates not available

Bridge Name: I-240 WB over Wolf River NBI Structure ID: 79100400060 Bridge ID: 79100400060

Analyzed By: bridgeware Analyze Date: Friday, May 22, 2020 12:13:37 Analysis Engine: AASHTO LRFR Engine Version 6.8.1.3001 Analysis Preference Setting: None

Report By: bridgeware Report Date: Friday, May 22, 2020 14:35:04

Structure Definition Name: Spans 1 - 10 **Member Name:** G2 **Member Alternative Name:** Typical Interior

Load and Resistance Factor Rating Summary

		Rating	Girde	er Summary Capacity		Location			
Live Load		Factor	Controls	(Ton)	Span	(ft)	Percent	Impact	Lane
Annual Permit 1	Permit	1.374	STRENGTH-II Concrete Flexure	113.33	1	74.54	100.0	As Requested	As Requested
Annual Permit 2	Permit	1.542	STRENGTH-II Concrete Flexure	127.19	1	74.54	100.0	As Requested	As Requested
EV2	Legal	3.149	STRENGTH-I Concrete Flexure	90.52	1	29.82	40.0	As Requested	As Requested
EV3	Legal	2.050	STRENGTH-I Concrete Flexure	88.14	1	29.82	40.0	As Requested	As Requested
Gravel Truck	Legal	2.198	STRENGTH-I Concrete Flexure	81.33	1	29.82	40.0	As Requested	As Requested
Gravel Truck + Lane Load	Legal	1.651	STRENGTH-I Concrete Flexure	91.60	1	74.54	100.0	As Requested	As Requested
Н 15-44	Inventory	2.852	STRENGTH-I Concrete Flexure	42.78	1	74.54	100.0	As Requested	As Requested
H 15-44	Operating	3.697	STRENGTH-I Concrete Flexure	55.45	1	74.54	100.0	As Requested	As Requested
HL-93 (US)	Inventory	1.016	STRENGTH-I Concrete Flexure	36.57	1	74.54	100.0	As Requested	As Requested
HL-93 (US)	Operating	1.317	STRENGTH-I Concrete Flexure	47.41	1	74.54	100.0	As Requested	As Requested
HS 20-44	Inventory	1.433	SERVICE-III PS Tensile Stress	51.58	1	36.96	49.6	As Requested	As Requested
HS 20-44	Operating	2.589	STRENGTH-I Concrete Flexure	93.19	1	29.82	40.0	As Requested	As Requested
Lane-Type Legal Load	Legal	1.983	STRENGTH-I Concrete Flexure	79.32	1	74.54	100.0	As Requested	As Requested
Overweight Permit	Permit	1.722	STRENGTH-II Concrete Flexure	219.54	1	74.54	100.0	As Requested	As Requested
SU7	Legal	2.191	STRENGTH-I Concrete Flexure	84.89	1	29.82	40.0	As Requested	As Requested
School Bus - Standard	Legal	5.479	STRENGTH-I Concrete Flexure	79.44	1	29.82	40.0	As Requested	As Requested
Type 3S2	Legal	2.912	STRENGTH-I Concrete Flexure	104.84	1	74.54	100.0	As Requested	As Requested

Note:

"N/A" indicates not applicable

"**" indicates not available

Bridge Name: I-240 WB over Wolf River NBI Structure ID: 79100400060 Bridge ID: 79100400060

Analyzed By: bridgeware Analyze Date: Friday, May 22, 2020 12:13:37 Analysis Engine: AASHTO LRFR Engine Version 6.8.1.3001 Analysis Preference Setting: None

Report By: bridgeware **Report Date:** Friday, May 22, 2020 14:35:08

Structure Definition Name: Spans 1 - 10 Member Name: G11 Member Alternative Name: Interior - max spacing

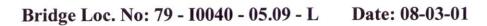
Load and Resistance Factor Rating Summary

		Rating	Girde	er Summary Capacity	T	Location			
Live Load		Factor	Controls	(Ton)	Span	(ft)	Percent	Impact	Lane
Annual Permit 1	Permit	1.417	STRENGTH-II Concrete Flexure	116.87	1	74.54	100.0	•	As Requested
Annual Permit 2	Permit	1.366	STRENGTH-II Concrete Shear	112.68	1	67.09	90.0	As Requested	As Requested
EV2	Legal	2.758	STRENGTH-I Concrete Flexure	79.29	10	44.73	60.0	As Requested	As Requested
EV3	Legal	1.796	STRENGTH-I Concrete Flexure	77.21	10	44.73	60.0	As Requested	As Requested
Gravel Truck	Legal	1.926	STRENGTH-I Concrete Flexure	71.25	10	44.73	60.0	As Requested	As Requested
Gravel Truck + Lane Load	Legal	1.702	STRENGTH-I Concrete Flexure	94.46	1	74.54	100.0	As Requested	As Requested
Н 15-44	Inventory	2.175	SERVICE-III PS Tensile Stress	32.63	10	37.58	50.4	As Requested	As Requested
H 15-44	Operating	3.812	STRENGTH-I Concrete Flexure	57.19	1	74.54	100.0	As Requested	As Requested
HL-93 (US)	Inventory	0.820	SERVICE-III PS Tensile Stress	29.53	10	37.58	50.4	As Requested	As Requested
HL-93 (US)	Operating	1.358	STRENGTH-I Concrete Flexure	48.89	1	74.54	100.0	As Requested	As Requested
HS 20-44	Inventory	1.084	SERVICE-III PS Tensile Stress	39.03	10	37.58	50.4	As Requested	As Requested
HS 20-44	Operating	2.268	STRENGTH-I Concrete Flexure	81.63	10	44.73	60.0	As Requested	As Requested
Lane-Type Legal Load	Legal	2.045	STRENGTH-I Concrete Flexure	81.80	1	74.54	100.0	As Requested	As Requested
Overweight Permit	Permit	1.803	STRENGTH-II Concrete Flexure	229.84	1	74.54	100.0	As Requested	As Requested
SU7	Legal	1.919	STRENGTH-I Concrete Flexure	74.36	10	44.73	60.0	As Requested	As Requested
School Bus - Standard	Legal	4.799	STRENGTH-I Concrete Flexure	69.59	10	44.73	60.0	As Requested	As Requested
Type 3S2	Legal	2.604	STRENGTH-I Concrete Flexure	93.76	10	44.73	60.0	As Requested	As Requested

Note:

"N/A" indicates not applicable

"**" indicates not available

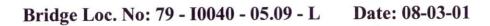




VIEW ACROSS TOP OF DECK



BRIDGE NO.

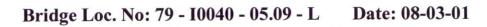




LOOKING AHEAD ON ROUTE

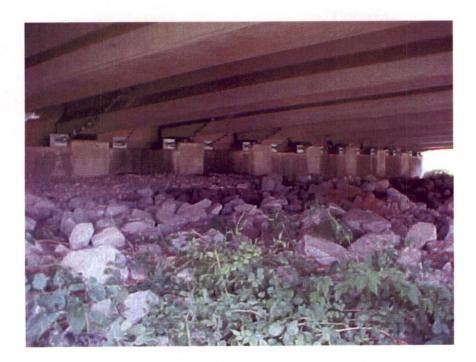


APPROACH #1, ASPHALT SPALLING AT JOINT

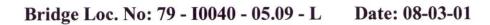




BENT #1

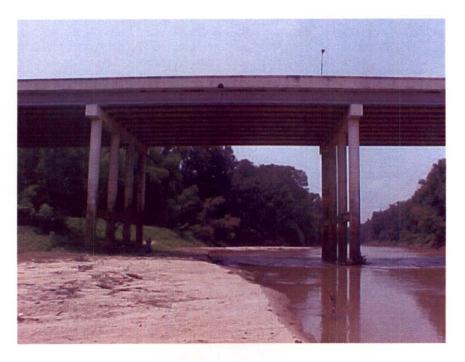


ABUTMENT #1

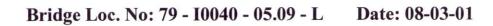


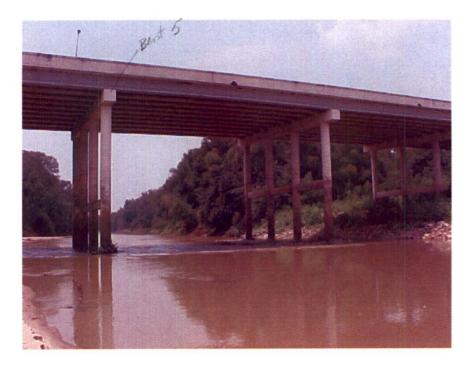


SPAN #4, BOTTOM OF DECK



RIGHT ELEVATION AT BENT #4

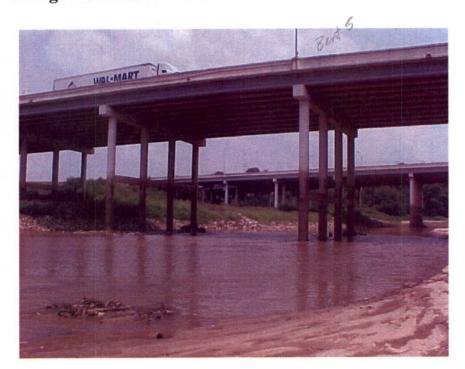




RIGHT ELEVATION AT BENT #5

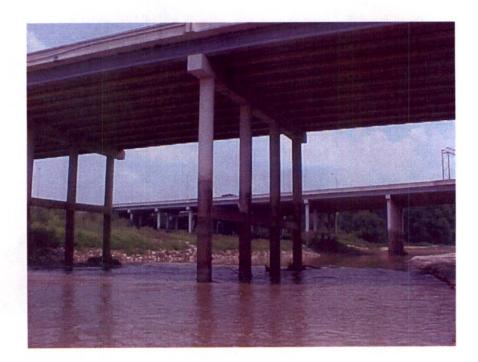


LEFT ELEVATION AT BENT #4



Bridge Loc. No: 79 - 10040 - 05.09 - L Date: 08-03-01

LEFT ELEVATION AT BENT #5





Bridge Loc. No: 79 - I0040 - 05.09 - L Date: 08-03-01

DRIFT AT BENT #5



SPAN #5, BOTTOM OF DECK

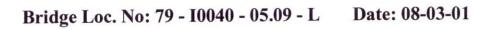




SPAN #7, BOTTOM OF DECK



LOOKING BACK ON ROUTE





APPROACH #2 ASPHALT SPALLING



APPROACH #2 ASPHALT SPALLING AT JOINT

Form BIR 3.0	GE INSPECTION REPORT	AUG & & 2004
DT-0069	Field Report No.	S Date & Zool
Eleven Digit No.	le Location No. <u>79 - 10040 - 5 oo</u>	Date S(F) NO()
Road Name Year Constructed	r <u>WOLF RIVER</u> Log Mile Crossing	OVER/UNDER PASS
Year Widened <u>FEATURES</u> Wearing Surface 0	Year Rehabilitated	cture Name (If Named) Itenance District45
Flared Width Yes (2) No () M Navigational Control Yes () No (2) Structure Type (Main Span) CONC. Structure Type (Appr.Spans) No. Main Spans 10 No. App Maximum Span Length 75	er () Asphalt () Depth ((in.) edian Width Open (None () Closed () Bridge Skew 90 ° LT () RT () . I. BEAM Droach Spans (**.* ft.) (**.*	
Supervising Bridge Inspector:	BRIDGE RATING: () () () GOOD FAIR POOR	() CRITICAL

-

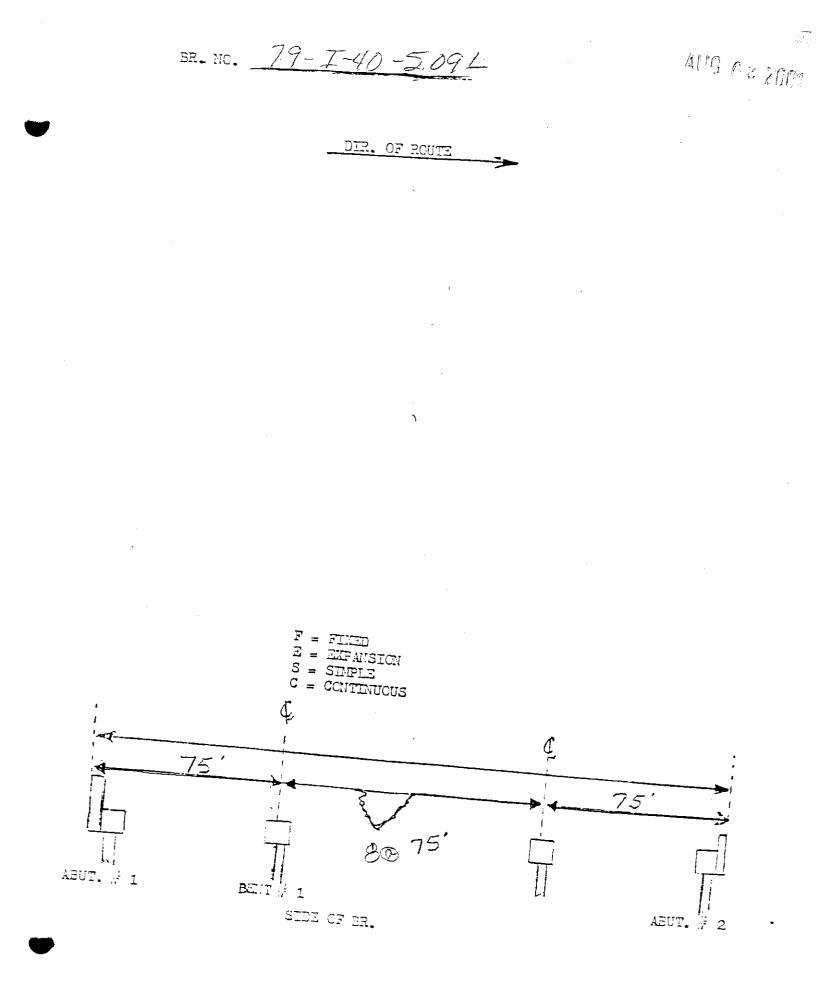
Form BIR 3.1 (Rev. 9-22-98) DT-0080 Bridge	Location No		<u>- 5.09 L</u>	A년6 12 2년所 Date
PERFORMANCE EVALUATIO		Co. Route	Log Mile	
Vehicles Observed	<u>30_</u> Wea	ather Conditio	ns <u> </u>	
LIVE LOAD BEHAVIOR				
Substructure <u>Y</u> Horiz./ Vert. Defl. (Vibration	ES NO) (A)) (A)		Comments	
Horiz./ Vert. Defl. (Vibration ()) (*)			
APPROACH Alignment Slab G F F	2 C		Comments	
Joints	C <u>/)</u>	1 Over	the with A.	
Pavement (G) F P	, c			····
Embankment G F P) C <u>ACC -</u>	2642	Mits get (C	
Drains G F P				
		····	·	
TRAFFIC SAFETY FEATURES	#121	+ 2121		·
Guardrail Terminal	STANDARD/S C (X) C () C () C ()	(') (') (+) (+) (+)	Comments	
SIGNING				
Paddleboards		NEEDED	Weight Limit Poste	
Vertical Clearance (<14'-6")	() ()	()	YES () NO (
NARROW ()	() ()	()	Gross	
ONE LANE BRIDGE	() (+)	()	2 Axle	Tons
Other Signs on Dr	$()$ (\dot{f})	()	3 or more Axles.	
Comments Regarding any Problems with Signing:	<u>)</u>)izz			Tons

Form BIR 3.2 (Rev. 9-22-98) DT-0081	Bridge Location No7	9 - 10040 - 500 (
DECK	Co	0. Route Log Mile	Date
Wearing Surface	Rating		ments
Deck - Structural Condition	G G F P C		
Curbs	GFPC		
Median	GFPC		
Sidewalks	GFPC		
Parapet	GFPC		
Railing	G (F) P C		
Paint Drain-	GĔPC		
Drains Lighting a	G F P C G F P C		
Lighting Standards Utilities	G F P C 4	12 SIRE SPAN H	0430
Joint Leakage			2-00 drening
Expansion Joints	GFPC - GFPC		
SUPERSTRUCTURE	GFPC		
Bearing Devices	~ ~		
Beams CIB	GFPC _		
Girders	(G)FPC		
PCCS	G F P C		
BOLTS (PCCS)	GFPC -		
Floor Beams	GFPC		
	G F P C		
Stringers Diant	<u> </u>		
Diaphragms Bross			
Bracing Trusses			
Trusses - General			
Portais	GFPC		
Bracing Paint	GFPC		
Alignment of Members	G F P C		
	GFPC		
TEXTURE COAT			
Condition Rating G(F) P	C -		
Overall Appearance G F P	C Fading	GEPC	
Staining Rating G F P	C Needs S		
Comments	Needs Re		(+)
RECOMMENDATIONS:		epainting YES() NO	(\mathbf{f})
		Scaling Rating	р / С с –
		CLEAN SEAL	энрС
		CLEAN SEAL J	UINTS ()
		CLEAN DRAINS	()

Form BIR 3.3 (Rev. 9-22-98) DT-0082 <u>SUBSTRUCTU</u>	Bridge Loc	ation No	79 - 1002 Co. Rout		Vile	AUG G	- 2001
ABUTMENTS	Rating		Comment			ES TO BE PLACED	
Caps Breastwall Wings Backwall Plumb Footing Piles Embankment Bearing Slope Paving Rip Rap Earthquake Devic					PILE(S)	ABUTME	'NT
PIERS	es GFPC_						
Caps Columns Plumb Footings Piles Bearing Web Earthquake Devices	G F P P C C C C C C C C C C C C C C C C C				PILE(S)	PIER	
BENTS							
Caps Columns Plumb Footings Bearing Bracing RIP PAP Earthquake Devices					PILE(S)	BENT	
Piles Ne CUT VE CLEAR RECOMMENDATIONS	eed Replacement: GETATION DRIFT :	NO (╱_) NO () NO ()	VEDAL	202) 201) Ol	T		

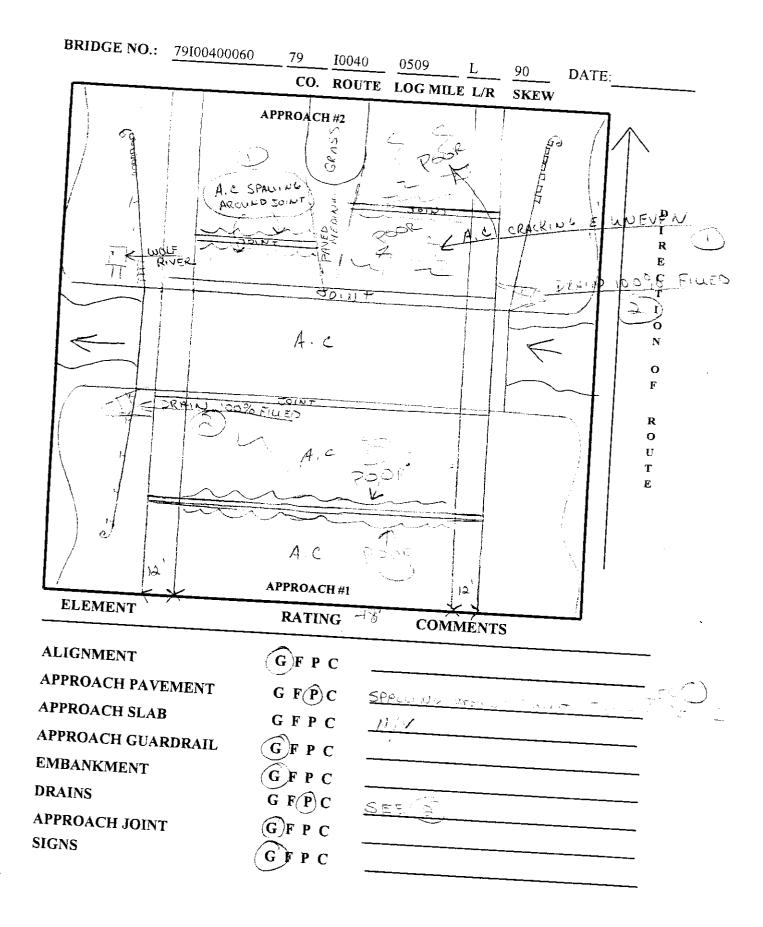
Form BIR 3.8 (Rev. 9-22-98) DT-1508	Bridge Location No. <u>79 - 10040 - 0509 L</u>	
		Date
Stream Cross	SIREAM CHANNEL DATA AND	
I. 1. Type of bod		
I. 1. Type of bed ma 2. Has channel st	$=$ $p_1 (f) p_1$	
3. Condition of rip		
4. Overall conditio	Est % failed	94 NI (A 4 5
5. Item 61 - Code	n of channel? GFPC values 0 thru 9 according to the recording and coding guide currently in the recording	<u>%</u> N/A ()
	and coding guide currently in effect:	
o. Underwater dive	r inspection recommended? YES () NO (Y	
II. Channel and here		
1. Steep hank cond	tability conditions: (check if applicable)	
2. Moderate bank e	Failures upstream () Failures downstream	()
3. Bank vegetation:		
	a. low growth () b. large timber () c. clea d. dead trees upstream () a. dead trees upstream	rbanks ()
ecument of grave	e dead trees down	nstream ()
5. Channel altered of	Straightened	
Stable conditions:		
III. Waterway adequacy a		
1. Bridge deck elevati	nd debris characteristics: (check if applicable ons:	
a. level with appro		
b. higher than appl	ch roadway ()	
2. Abutment encroach	ch >= 2 ft. above natural ground line. ()	
4. Indications that floor		
NO (') YES () OC		
5. Debris characteristic	s:	
a. debris/drift preser b. debris/drift likely ti C. dead troop		
acad dees upstre	Accumulate YES (-) NO ()	
IV. Comments:		
<u> </u>	SERMEL	
SPECIAL INSPECTION DATA	- FOR REASONS OTHER THAN FC OR SCOUR	
 Does this bridge need a si 	pecial inspection? YES () NO ()	
II. Reason for special inspect	ion:	

Inspection Team's Summary 1 100 A A 2061 Bridge Location No. 79 - 10040 - 5.09 L Inspection Date _______ Bridge Rating FAIR THIS TEN SPAN C.I.B BRIDGE WITH CONCRETE SUBSTRUCTORS IS IN FAIR CONDITION, ALL TRAFFIC CAFETY FEATURES ARE PRESENT. APP # 12 2 PANEMENT IS CRACKING & SPALLING ABOUND JONTE & PAVENT IS LIDEVEN. DRAINS ON APP # 1 LT E HAPP FORT ARE 100% FILLED. DRAINS ON LT SIDE OF SPANS 2-9 ARE STOPPED UP. Ver 🔬 HEANY IN GENERAL i/U Cross Section: yes () no (次) Pontis: yes () no 🖒 $M \sim 1$



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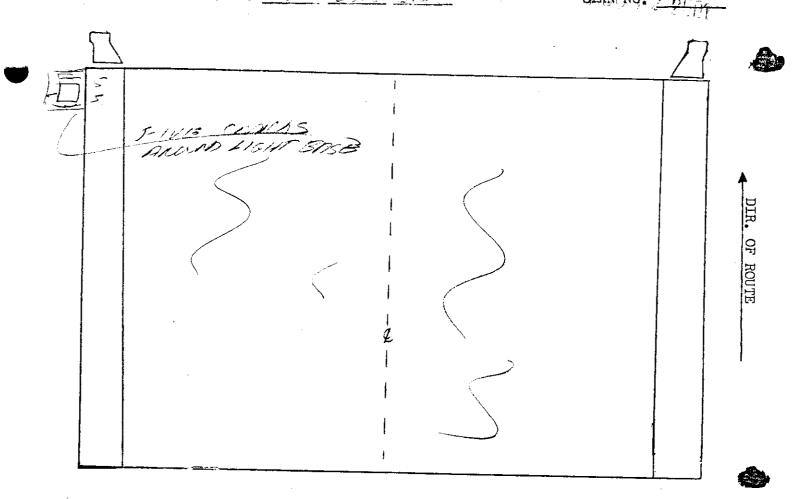
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BR. NO. 79 1240 5.09

SEANING 2 LEFT

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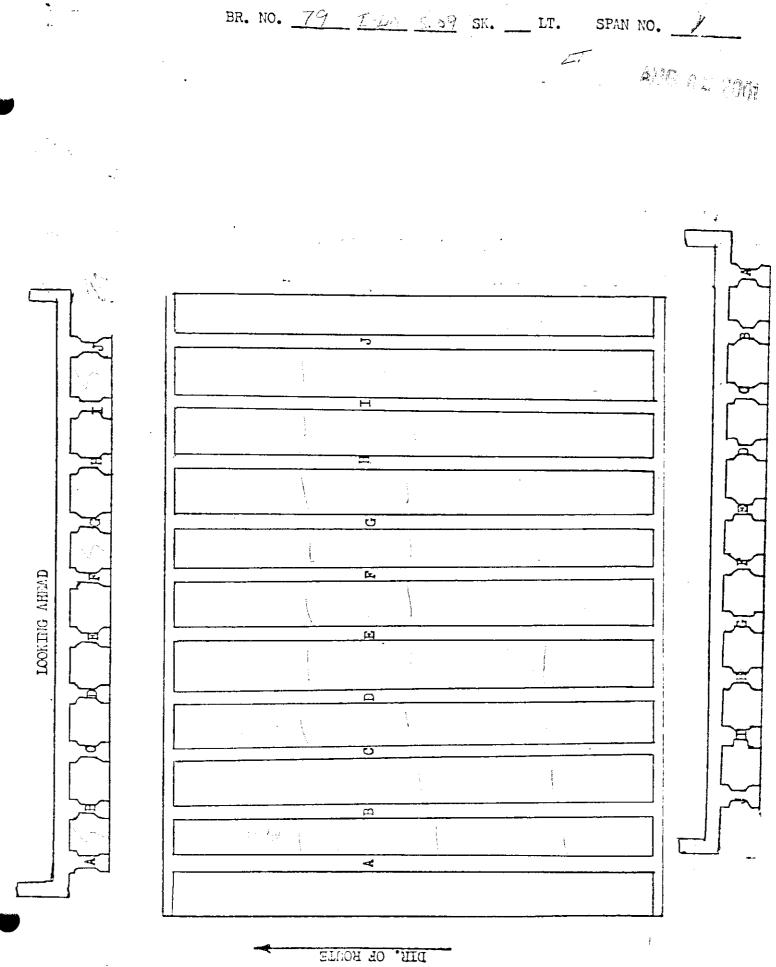
FIFMENT	RATING	COMMENT
TOP DECK	GFP C	FING CAPICES
PARAPET	CPP C	FINGCIUNT
RAILS & POST	GFPC	•
DRAINS	GFPC	KIA.
EXP. JOINTS	GFPC	N/A
116147	GFPC	

BRIDGE NO. 79 1-40 309

BENT NO. _____ SPAN NO. / ABT. NO. ____ PIER NO. ____

ELEMENT	PATING	COMMENTS
BOTTON DECK	GFPC	DANELS
CONC. I. BEANS	GFPC	
A	G)FPC	
	GFPC	
C	<u>G</u> FPC	· · · · · · · · · · · · · · · · · · ·
D	<u>G</u> FPC	
F	GFPC	
G	<u>G</u> FPC	
H		
I J	G F P C	
7		
DIA.	GFPC	
BACKWALLS	GFPC	Ender Collection

 \hat{H}



T BR. NO. 79 5.09 SPAN NO. 2 t CARCHING PAGNO BASE DE LIGIAJ DIR. OF ROUTE ¥. <u>ELE IENT</u> RATING COMPANT " CNACKS TOP DECK CFPC FIND MACKS GFP C PARAPET RAILS & POST GFPC LT SP3 DRAINS GFPC NA EXP. JOINTS GFPC LIGHT GFPC

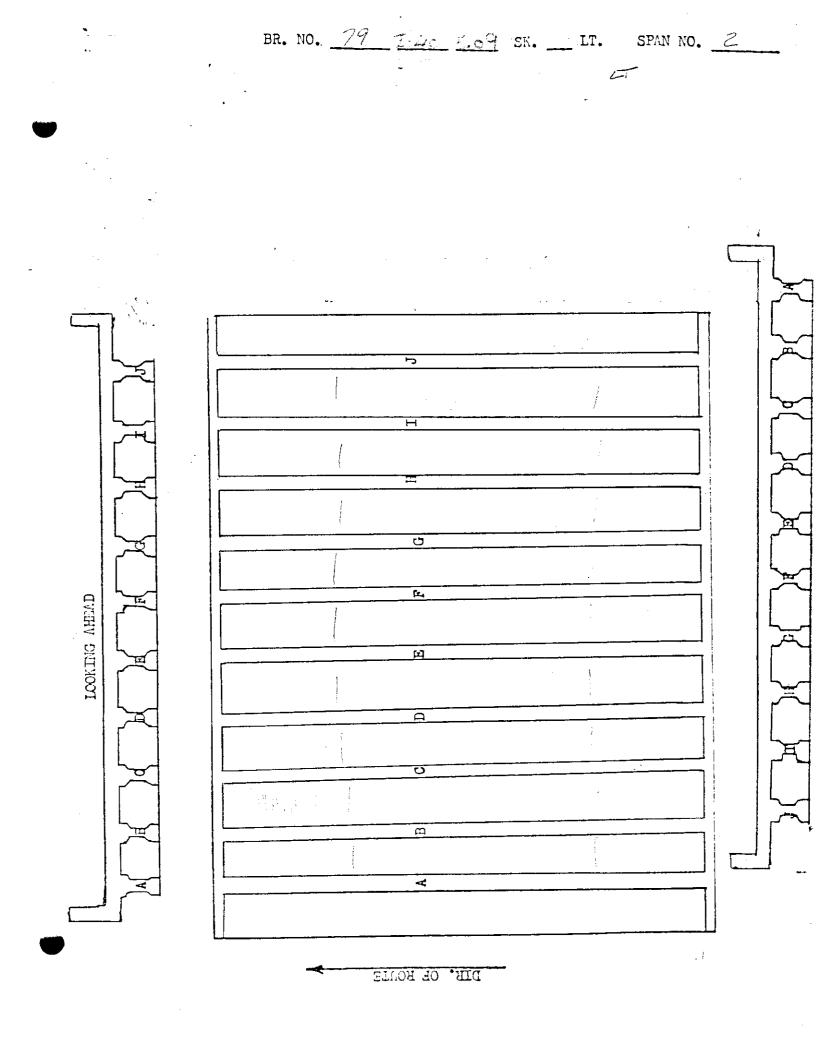
BRIDGE	NO.	79	<u>T-40</u>	5.09	Di2
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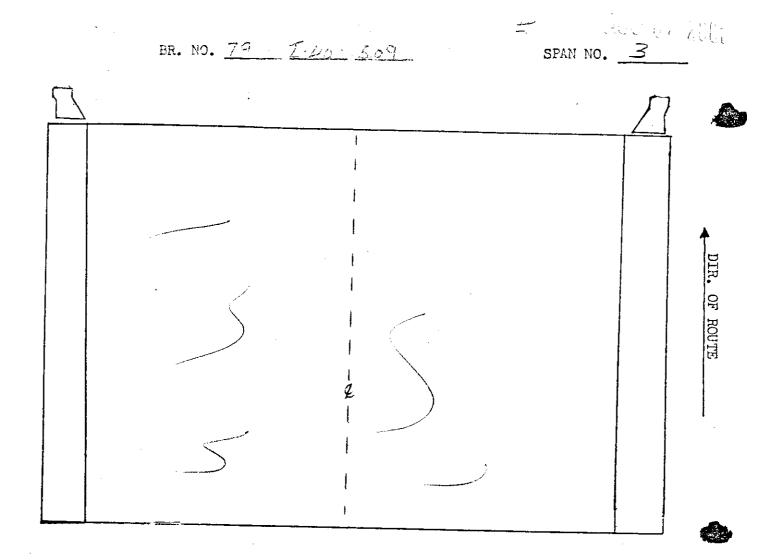
In

AUG 02 2007

BENT NO. _____ SPAN NO. Z ABT. NO. ____ PIER NO. ____

ELEMENT	PATING	COMMENTS
BOTTO!! DECK	GFPC	PANCIS
CONC. I. BEANS	<u>GFPC</u>	
<u>A</u>	<u>G</u> FPC	
В	<u>G</u> FPC	
c	GFPC	1
D	<u>GFPC</u>	
E	GFPC	
F	GFPC	
G	GFPC	
н	GFPC	
I	GFPC	
J	<u>G</u> FPC	
	-	
	<u></u>	
DIA.	GFPC	
BACKWALLS	GFPC	Ref Contraction of the Contra





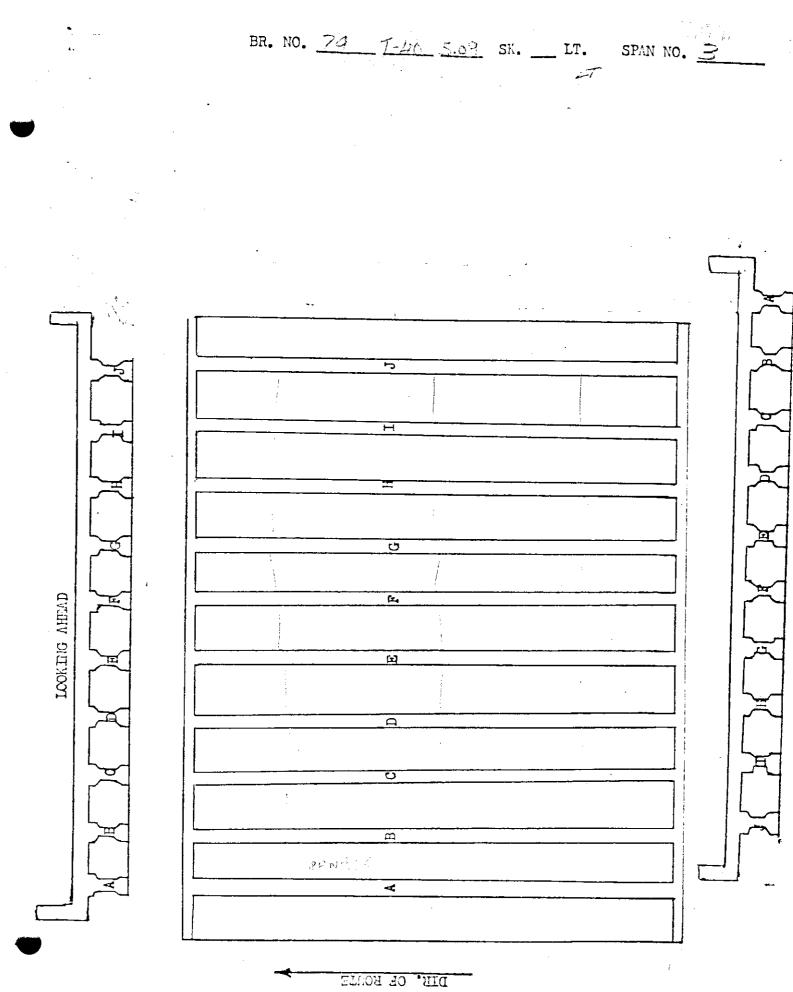
ELEMENT	RATING	COMENT
TOP DECK	GFP C	FINB COLACKS
PARAPET	G (F)P C	FINB CORORS
RAILS & POST	GFPC	
DRAINS	GFPC	15 5103
EXP. JOINTS	GFPC	
ь.	GFPC	
	l.	n

5 AUG 92 2000

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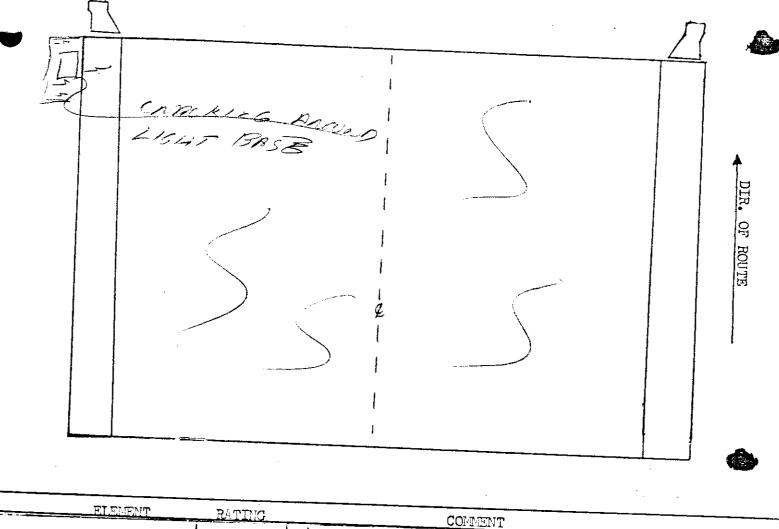
BENT NO. _____ SPAN NO. ____ ABT. NO. ____ PIER NO. ____

ELEMENT	PATING	COMMENTS
BOTTON DECK	GFPC	PANELS
CONC. I. BEANS	GFPC	
A	GFPC	
B	GFPC	
C	GFPC	
D	(G)FPC	
<u>F</u>	<u>CPFPC</u>	
G	GFPC	
	GFPC	
I	<u>GFPC</u>	· · · · · · · · · · · · · · · · · · ·
J	GFPC	
,	***************************************	
- '		
DIA.	GFPC	
BACKWALLS	GFPC	



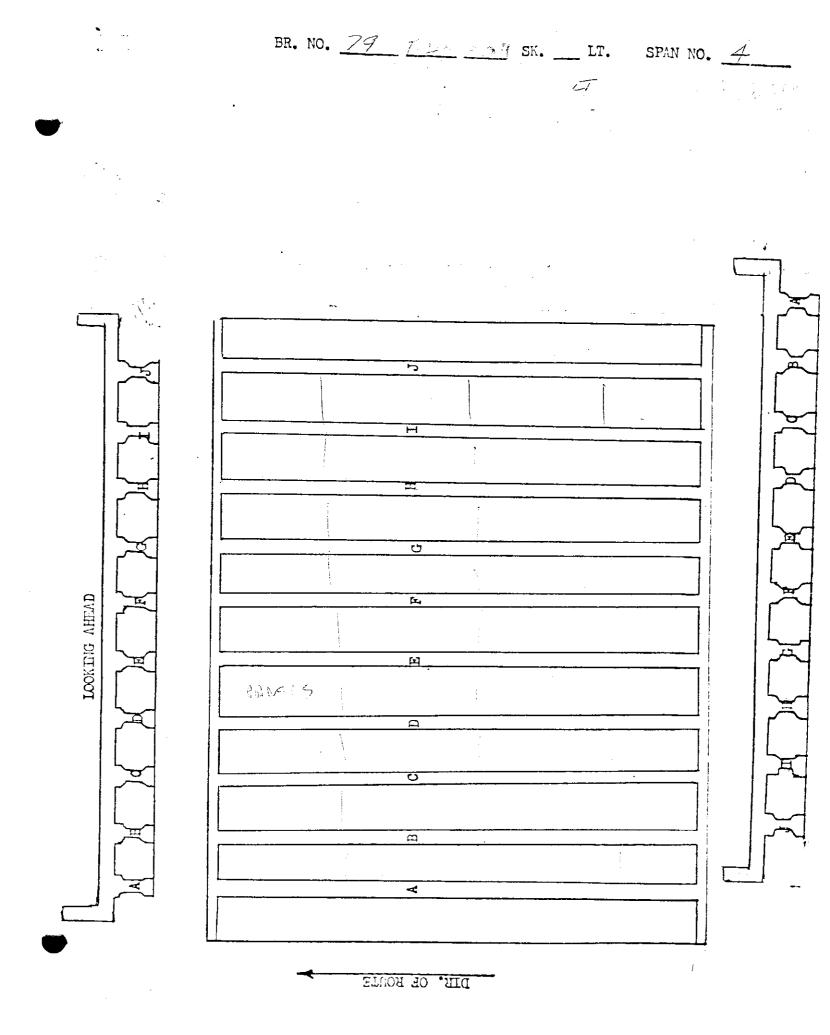
BR. NO. 79 1.40 5.09

SPAN NO. 4



	RATING	COMMENT	
TOP DECK	CFP C		
PARAPET	GFPC	4 CRACKS FINB CNACKS	
RAILS & POST	GFPC		
DRAINS	G FPC	IT SIDE	
EXP. JOINTS	GFPC		
LIGHT	FPC		
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				9		İ
BENT NO.	SPAN NO.	4	ABT. NO.	PIER N	0	
ELEMENT	PATING		<u></u>	COMMENTS		
BOTTOH DECK	GFPC	PANELS				
CONC. I. BRANS	GFPC		<u> </u>			
A	GFPC					
B	GFPC					
C				<u></u>	,	
	<u>GFPC</u>					
D	<u>G)FPC</u>		····	······································		
E	OFFC		······································			
F	GFPC			· · · · · · · · · · · · · · · · · · ·		
G	<u>GFPC</u>				<u> </u>	
- <u>H</u>	<u>G</u> FPC	<u> </u>			·	
<u>I</u>	GFPC			•		
J	GFPC				<u> </u>	
					·	
			· · · · · · · · · · · · · · · · · · ·		·	
			······································			
DIA.	GFPC					
BACKWALLS	<u> </u>			·		
		<u> </u>				
		······································			··- ··- ·	
		······································	· · · · · · · · · · · · · · · · · · ·			
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ţ AUG 0 « 2001 span no. <u>5</u> BR. NO. 79 7 209

	S				DIR
		1	$\left(\right)$		DIR. OF ROUTE
		 \$. 			
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·				
FLEMENIT	RATING	COMMENT		
TOP DECK	GFP C	FINB MACHS	· ·	
PARAPET	GFP C	FING MACHS		
RAILS & POST	GFPC	· · · · · · · · · · · · · · · · · · ·		
DRAINS	GFPC	0T 5103		
EXP. JOINTS	GFPC			
5.	GFPC			· .
-				
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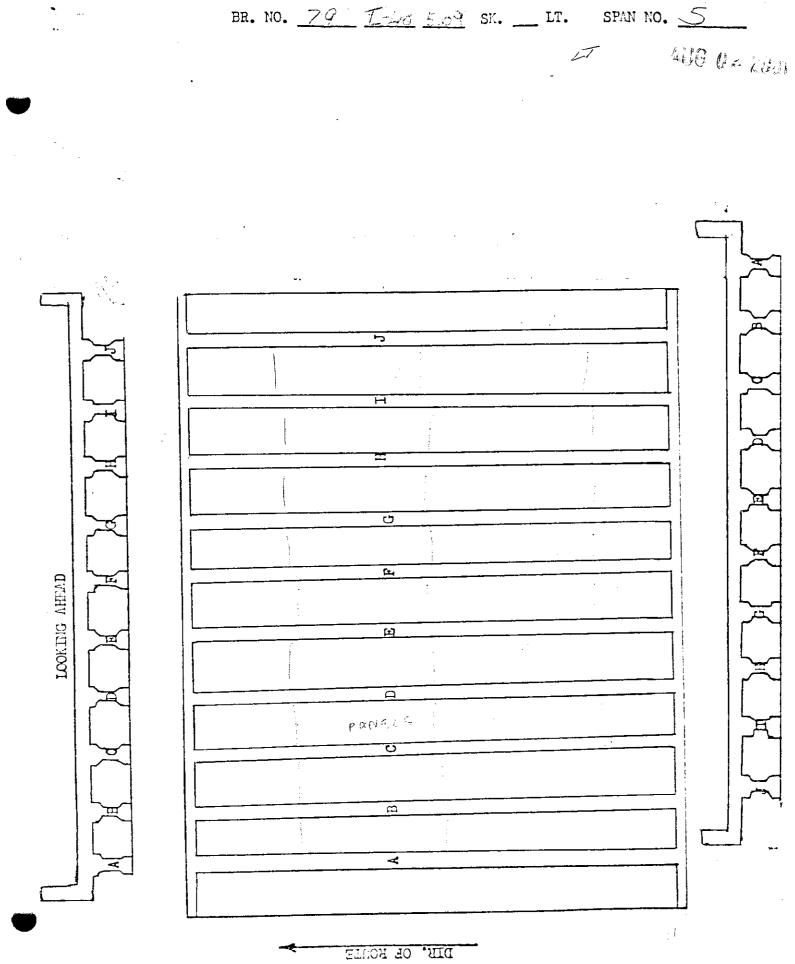
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BRIDGE NO. 29 1-40 5.09

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BENT NO. _____ SPAN NO. _____ ABT. NO. _____ PIER NO. _____

ELEMENT	PATING	COMMENTS
BOTTON DECK	GFPC	Dra Kongense
CONC. I. BEANS	GFPC	
Α	GFPC	
В	<u>CFPC</u>	
¢	GFPC	···
D	GFPC	
E	<u>GFPC</u>	
F	GFPC	· · · · · · · · · · · · · · · · · · ·
G	<u>GFPC</u>	
I	G F P C	
J	GFPC	
DIA.	GFPC	
BACKWALLS	GFPC	



BR. NO. 79 I-20 5.04 D SPAN NO. 6

·			}
	CNACKING BASB	BROUND	12
			DIR. OF ROUTE

ELALIENT	RATING	COMMENT
TOP DECK	GFP C	FING CARCKS
PARAPET	GFP C	FING CARCKS
RAILS & POST	GFPC	
DRAINS	G FPC	USIDO
EXP. JOINTS	GFPC	
LIGAT	GFPC	

BRIDGE NO. 29 T-40 5-4

AUG ON LOM

SPAN NO. 6 ABT. NO. PIER NO.

BENT NO.

ELEMENT	PATING	COMMENTS
BOTTOH DECK	GFPC	PAUS
CONC. I. BEANS	GFPC	· .
A	GFPC	
В	GFPC	
C	<u>G</u> FPC	· · · · · · · · · · · · · · · · · · ·
D	GFPC	
<u> </u>	<u>G</u> FPC	
F G	GFPC	
H	GFPC	
I	GFPC	
J	GFPC	· · · · · · · · · · · · · · · · · · ·
DIA.	GFPC	· · · · · · · · · · · · · · · · · · ·
BACKWALLS	GFPC	
	·····	
	······································	

--- 0 ~ 6001 BR. NO. 79 T-40 5.09 SK. SPAN NO. 6 LT. ΣT ÷ 5 Η 3 Cr. CALING ANTADA G भ А PANELS C R A DIR. OF ROUTE

BR. NO. <u>29 - 140 500</u> SPAN NO. <u>2</u>

 ELEVENT
 RITING
 CONTENT

 TOP DECK
 GFPC
 Infinite

 FARAFET
 GFPC
 Infinite

 RAILS & POST
 GFPC
 Infinite

 DRAINS
 GFPC
 Infinite

 EXP. JOINTS
 GFPC

 GFPC
 GFPC

BRIDGE NO. 29 746 5.09

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BENT NO. _____ SPAN NO. _____ ABT. NO. ____ PIER NO. __

 $f_{i} \in \{x_{i}\}$ = 1 = 1

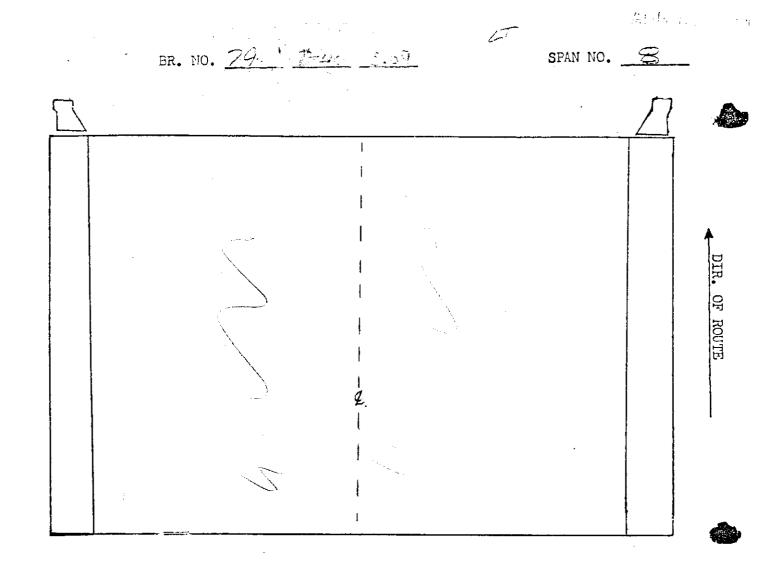
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ELEMENT	PATING	COMMENTS
BOTTON DECK	GFPC	
CONC. I. BEAMS	GFPC	
AB	GFPC	
C	GFPC	
D E	G/FPC G)FPC	· · · · · · · · · · · · · · · · · · ·
F	<u>G</u> FPC	
<u>G</u>	G F P C	
I	GFPC	
JKKKKKK	GFPC	
DIA.	<u>ĜFPC</u>	
BACKWALLS	GFPC	<u>Nija</u>

ALIS DE ZUM BR. NO. 79 140 509 SK. LT. SPAN NO. 7 LT 14 Ċ H Ξ. Ģ LOOP T IN TOOL LOOKING AHEAD Ē. ਸ਼ Ω σ щ PANCIS A

DIR. OF ROUTE



 ELECTION T
 RATING
 COMMENT

 TOP DECK
 G F P C
 G MARATE

 PARAPET
 G F P C
 FING MARATE

 RAILS & POST
 G F P C
 DRAINS

 DRAINS
 G F P C
 LT S MARATE

 EXP. JOINTS
 G F P C

 G F P C
 G F P C

AUG 02 2001

BRIDGE	NO.	79	1-40 15.07	DB

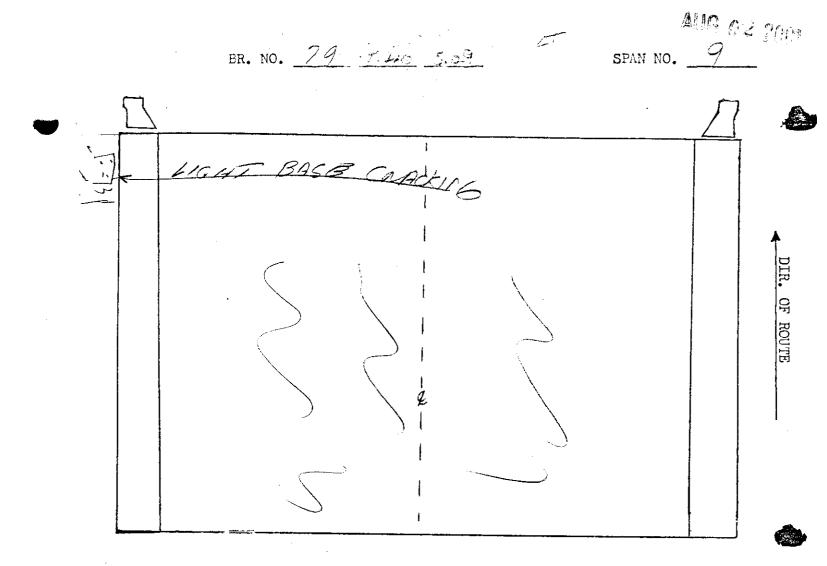
PIER NO.

BENT NO. _____ SPAN NO. Z ABT. NO. _____

	_	
ELEMENT	PATING	COMMENTS
BOTTON DECK	(C)FPC	PANCIS
CONC. I. BRANS	GFPC	
A	GFPC	
<u> </u>	GFPC	
	GFPC	
D E	GFPC GFPC	
E F	G/FIC	
G	GFPC	
Н	GFPC	
Ĩ_	GFPC	
J	GFPC	
КК	G/FPC	
,		
DIA,	GFPC	
BACKWALLS	GFPC	NIC
		

AUG UN LUG BR. NO. 29 SPAN NO. 8 SK. ____ LT. ET. Х 5 H 5 LOOKING AHEAD التو ष्य D Ö В PANELS A

DIR. OF ROUTE



ELEMENT	RATING	COMENT
TOP DECK	GFP C	FINB MACKS
PARAPET	GFP C	FINB CRACKS
RATLS & POST	GFPC	
DRAINS	G FPC	LT 5103
EXP. JOINTS	GFPC	
LIGHT	GFPC	
	1 .	

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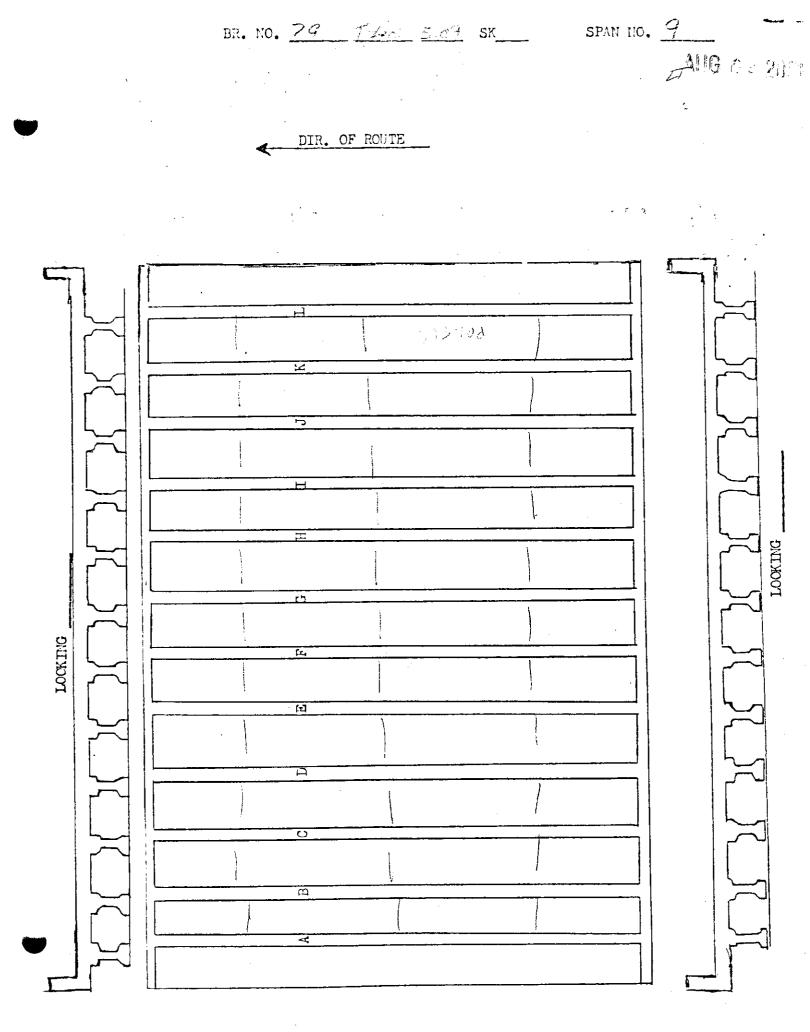
BRIDGE	NO.	79	<u></u>	<u>5.29</u>	Pro
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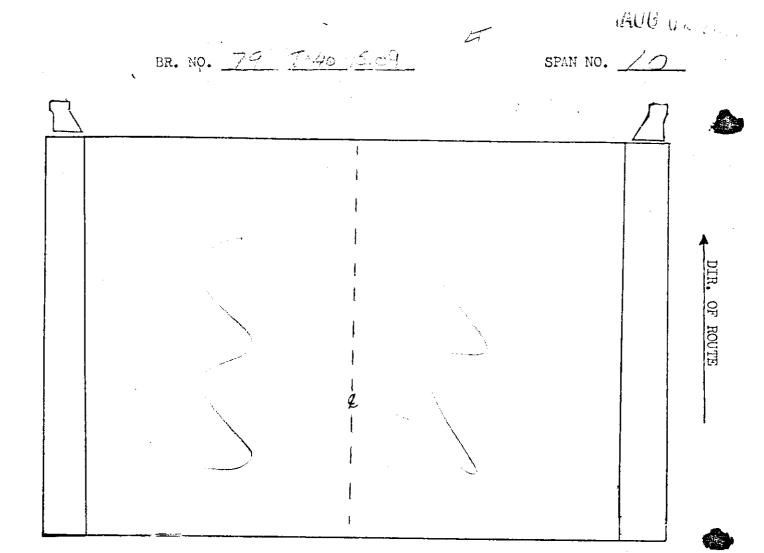
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BENT NO. _____ SPAN NO. _____ ABT. NO. _____ PIER NO. _____

ELEMENT	PATING	COMMENTS
BOTTOH DECK	GFPC	PANELS
CONC. I. BEANS	GFPC	
A	GFPC	
B	<u>G</u> FPC	· · · · · · · · · · · · · · · · · · ·
C	GFPC	r ¹
D	GFPC	
E	GFPC	
F G	GFPC GFPC	· · · · · · · · · · · · · · · · · · ·
н	GFPC	
I	G F P C	
J	GFPC	•
K	GFPC	
L	GFPC	
-19	· · · · · · · · · · · · · · · · · · ·	
DIA.	GFPC	
BACKWALLS	<u>GFPC</u>	NA
	<u> </u>	



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ELEMENTRATINGCOMPANTTOP DECKG \mathbb{P} P C \mathbb{C} CARCESPARAFETG \mathbb{P} P C \mathbb{F} In \mathbb{C} CARCESRAILS & POSTG F P CDRAINSG F P CDRAINSG F P CG F P C \mathcal{N}/\mathcal{A} G F P C \mathbb{N}/\mathcal{A} G F P C \mathbb{C}

BRIDGE NO. 79 7-40 5.09

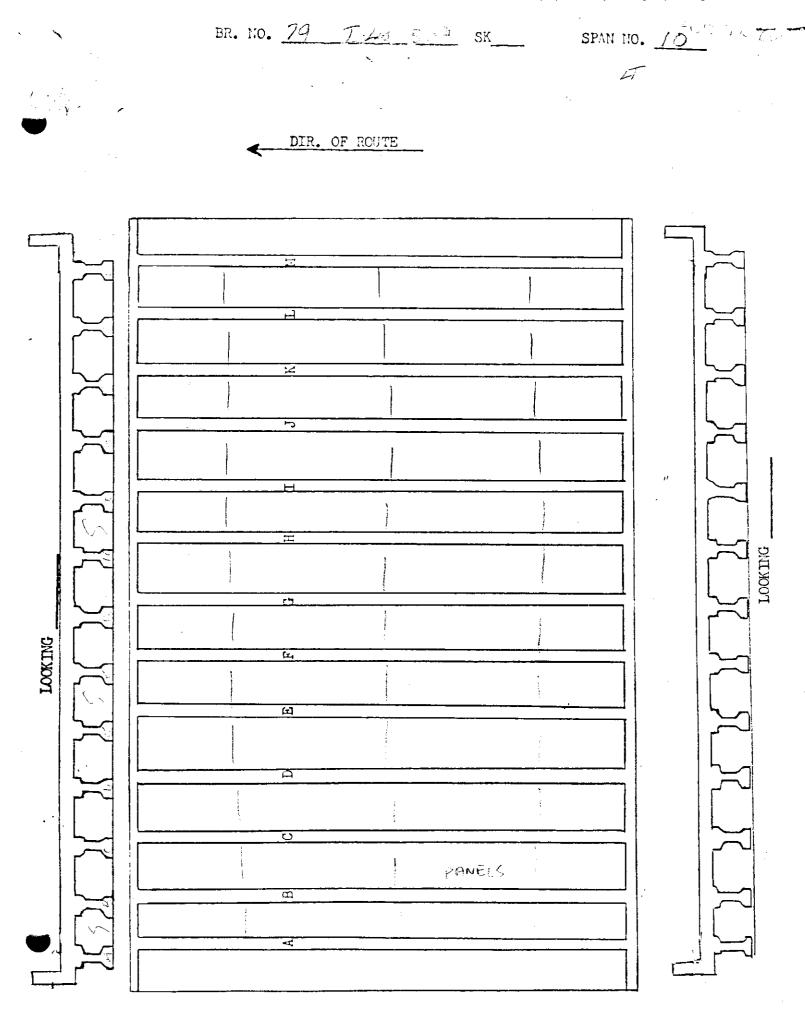
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BENT NO. _____ SPAN NO. // ABT. NO. ____ PIER NO. ____

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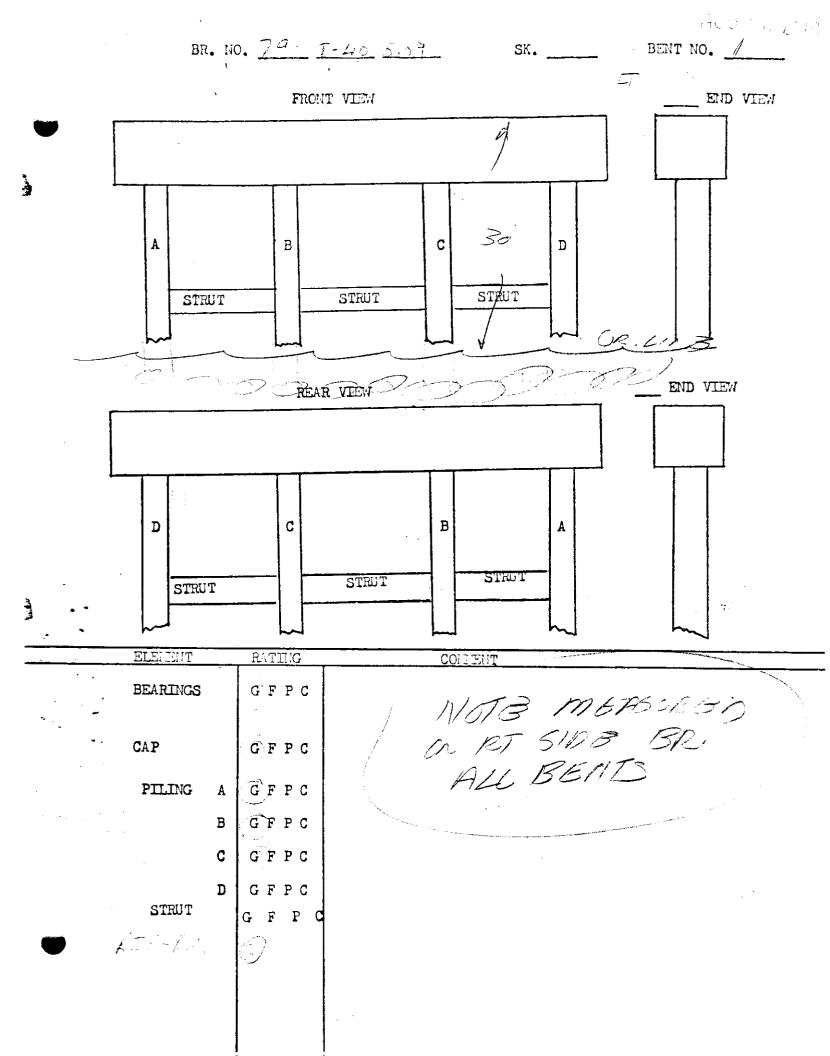
AUG 1. « 2017

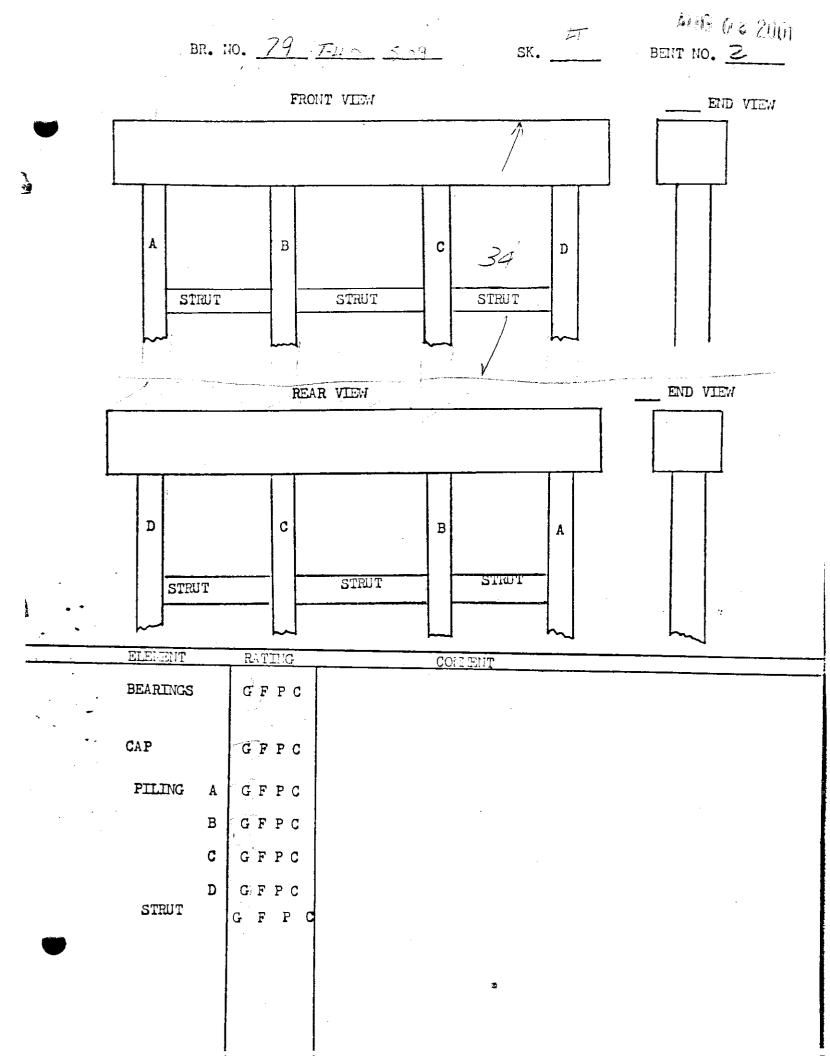
ELEMENT	RATING	COMMENTS
BOTTOLI DECK	GFPC	DANELS
CONC. I. BEANS	GFPC	
A	GFPC	
B	GEPC	
C	GFPC	
D	<u>G</u> FPC	· · · · · · · · · · · · · · · · · · ·
E	GFPC	
F	GFPC	· · · · · · · · · · · · · · · · · · ·
G	GFPC	· · · · · · · · · · · · · · · · · · ·
<u>H</u>	GFPC	
Ţ	<u>G</u> FPC	
J	GFPC	
К	GFPC	
L	GFPC	
M	GFPC	
DIA.	GFPC	 +
BACKWALLS	G(F)P C	FIRE MOCISS
	· · · · · · · · · · · · · · · · · · ·	
		·

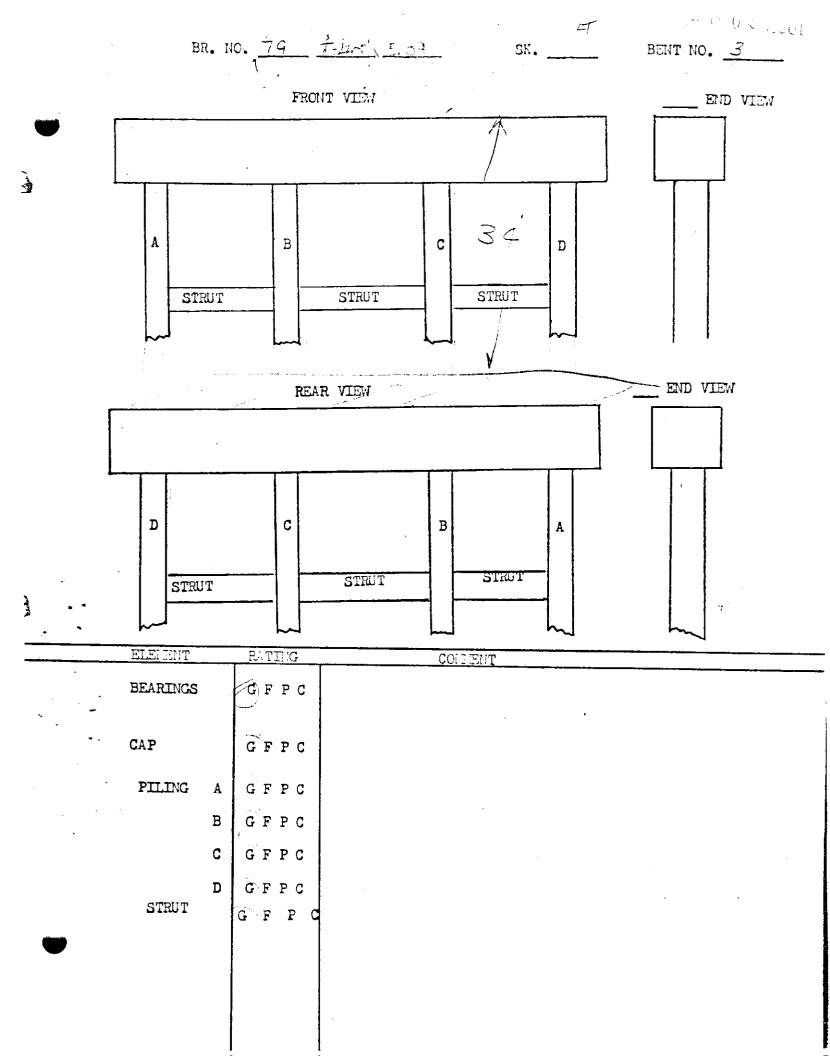


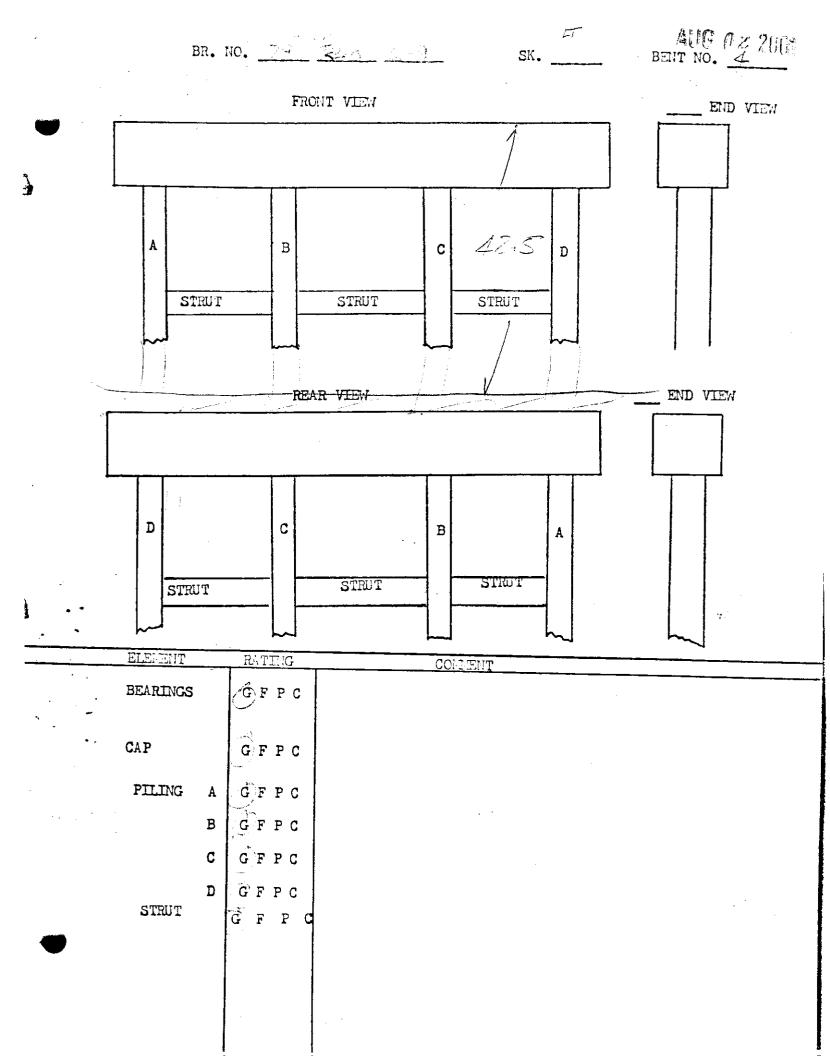
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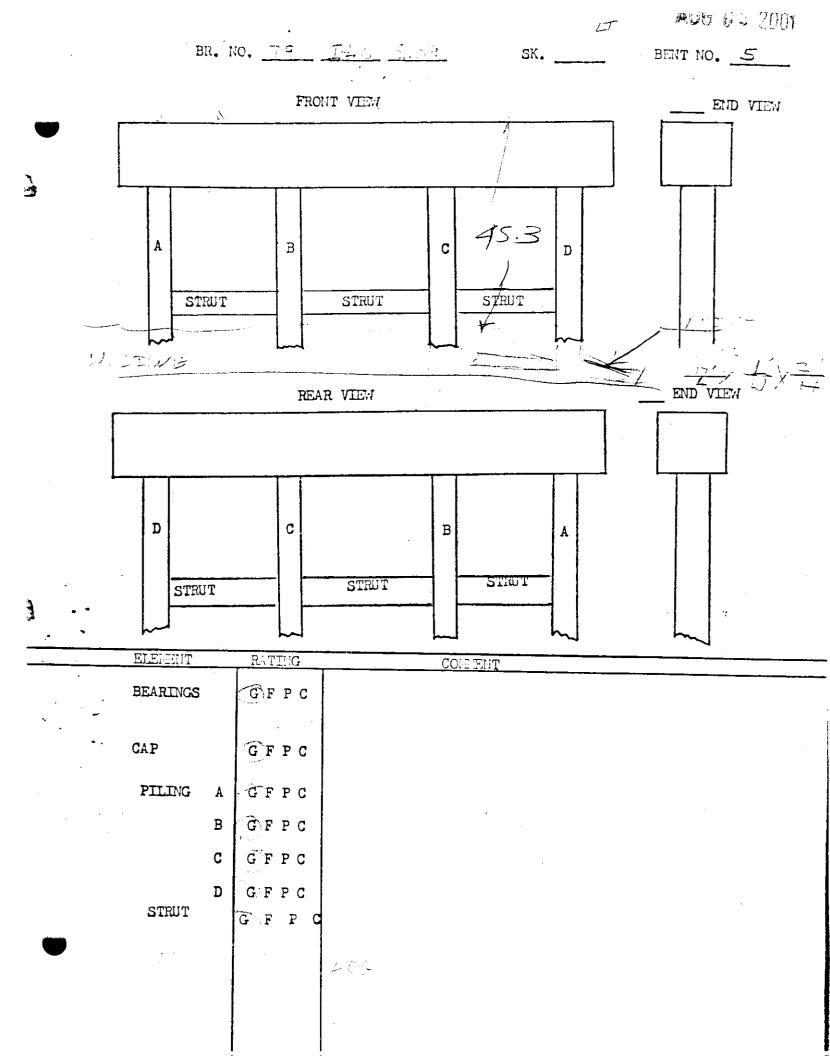
BRIDGE NO <u>79</u>	<u>T-40</u> <u>5.0</u>		ABUT. NO/	7.
	<u>`0000</u>	LOOKING <u>BACK</u>		
		VIEW		
ELEMENT	RATING	COMMENT		
ELEMENT BEARING CAP WINGS EMBANKMENT IOPAVEMENT	RATING G F P C G F P C	COMMENT		
BEARING CAP WINGS EMBANKMENT	G F P C G F P C G F P C G F P C			

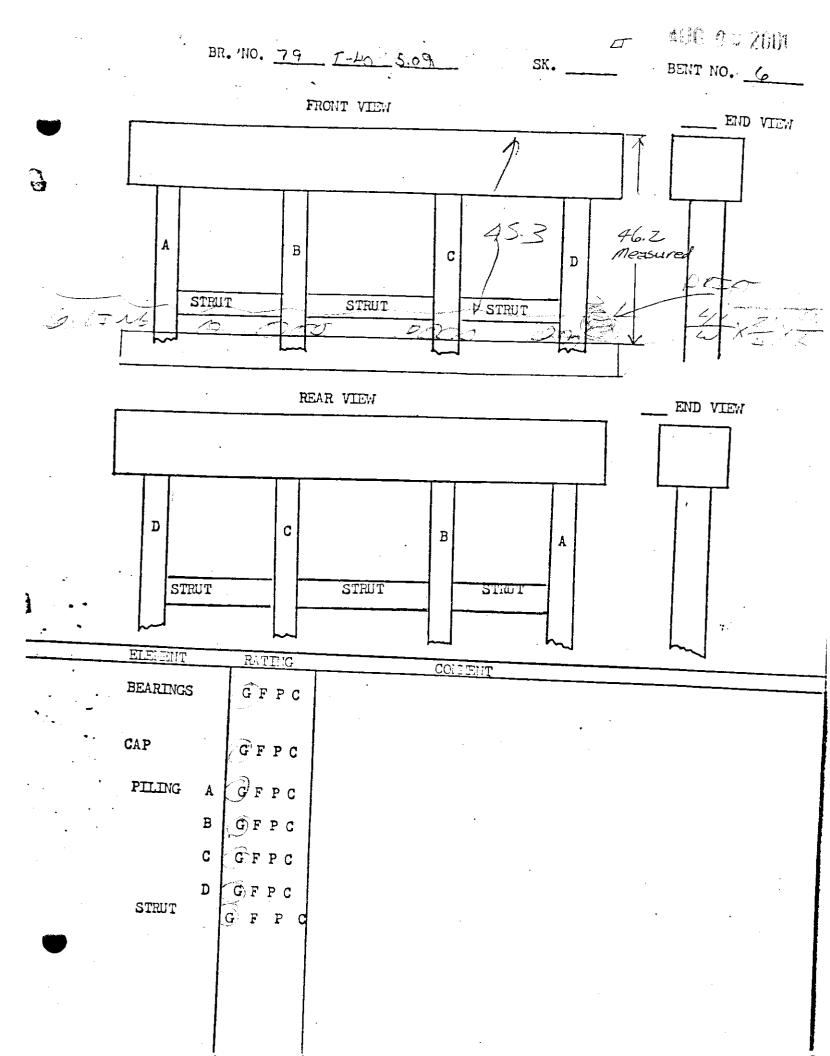


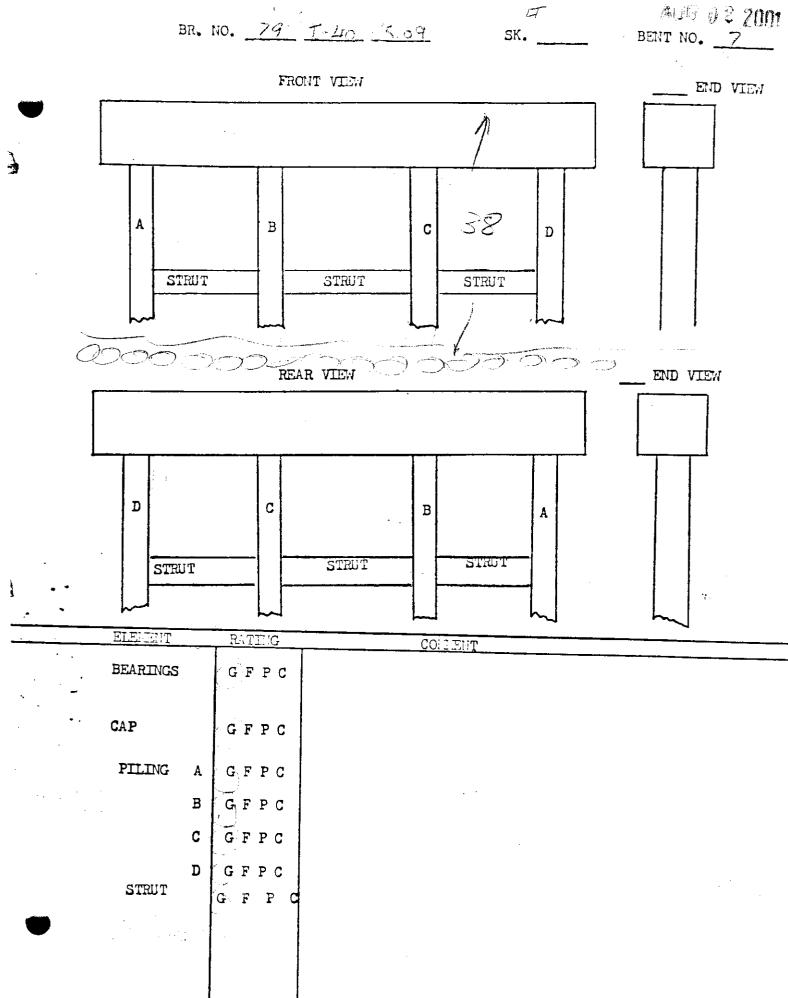


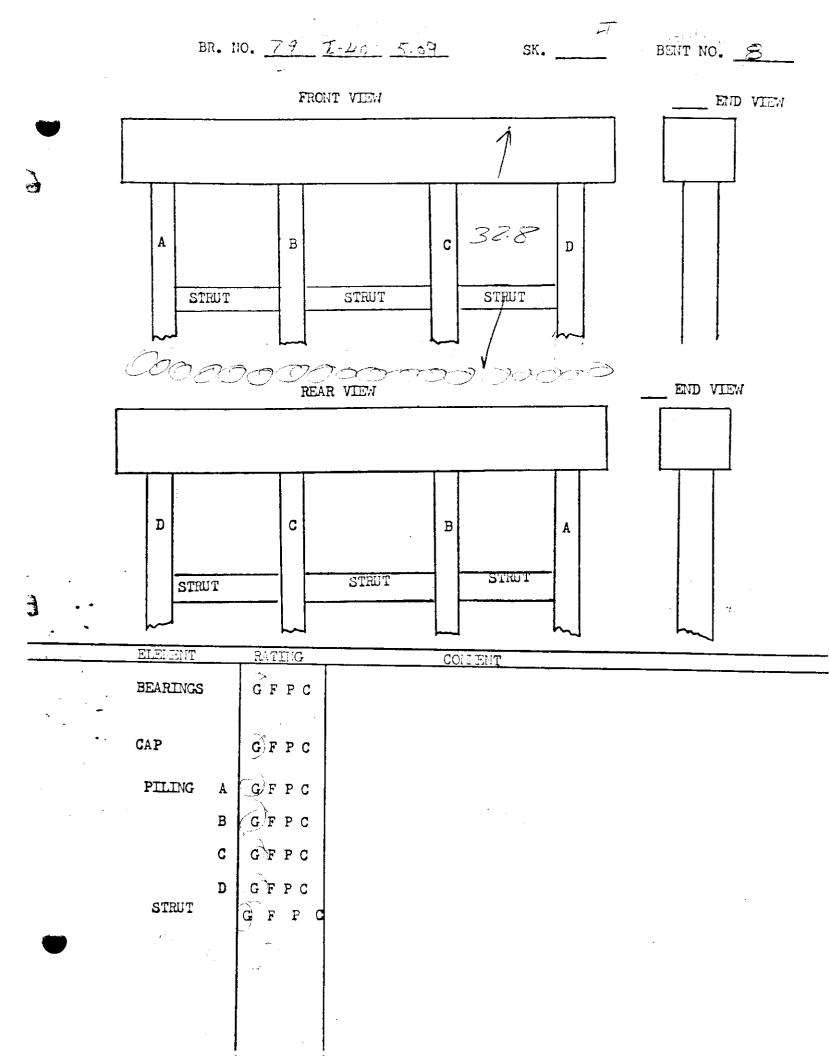


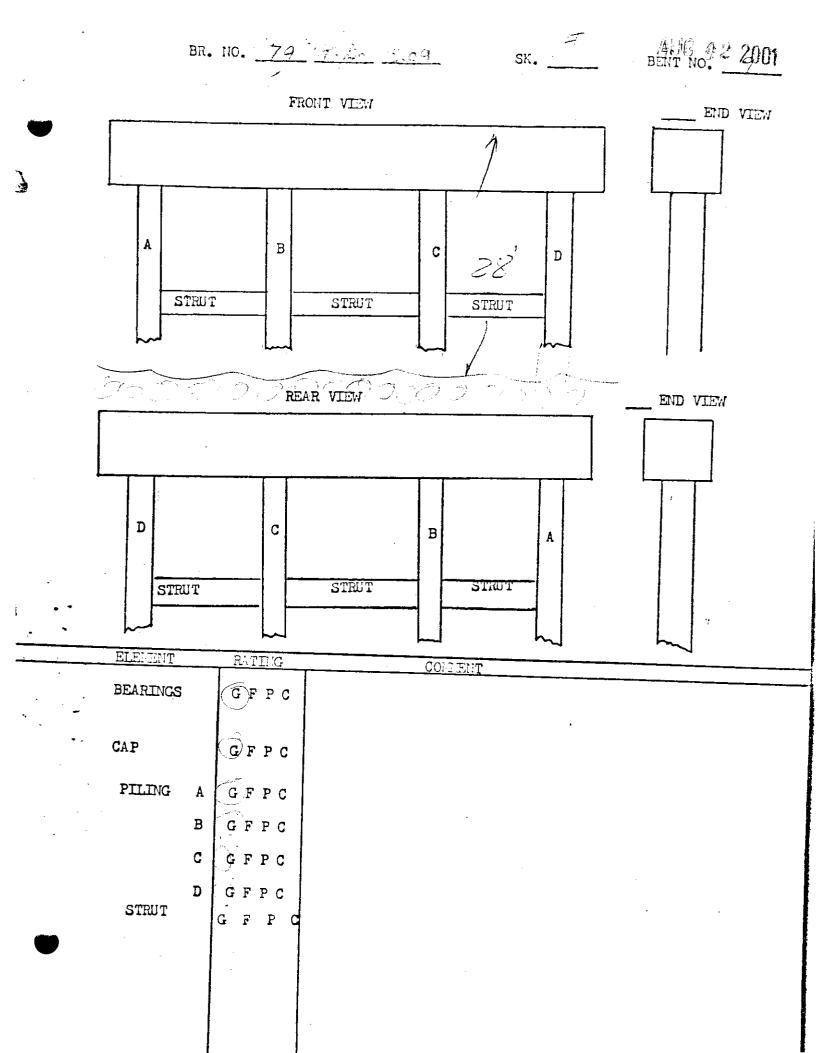


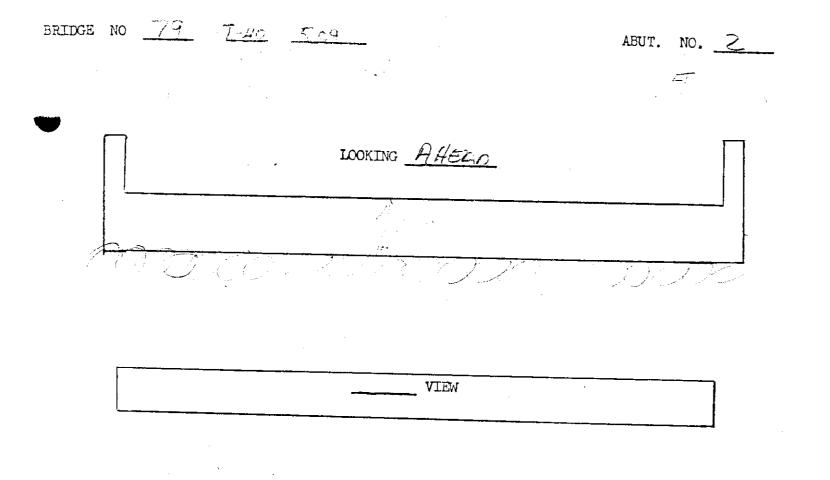












ELEMENT	RATING	COMMENT
BEARING CAP	GFPC	
UAP WINGS	G F P C G F P C	
EMBANKMENT	G F P C G F P C	
VEG.	G F P C	and and the second s
	r.	
	-	

Rev. 08/03/00

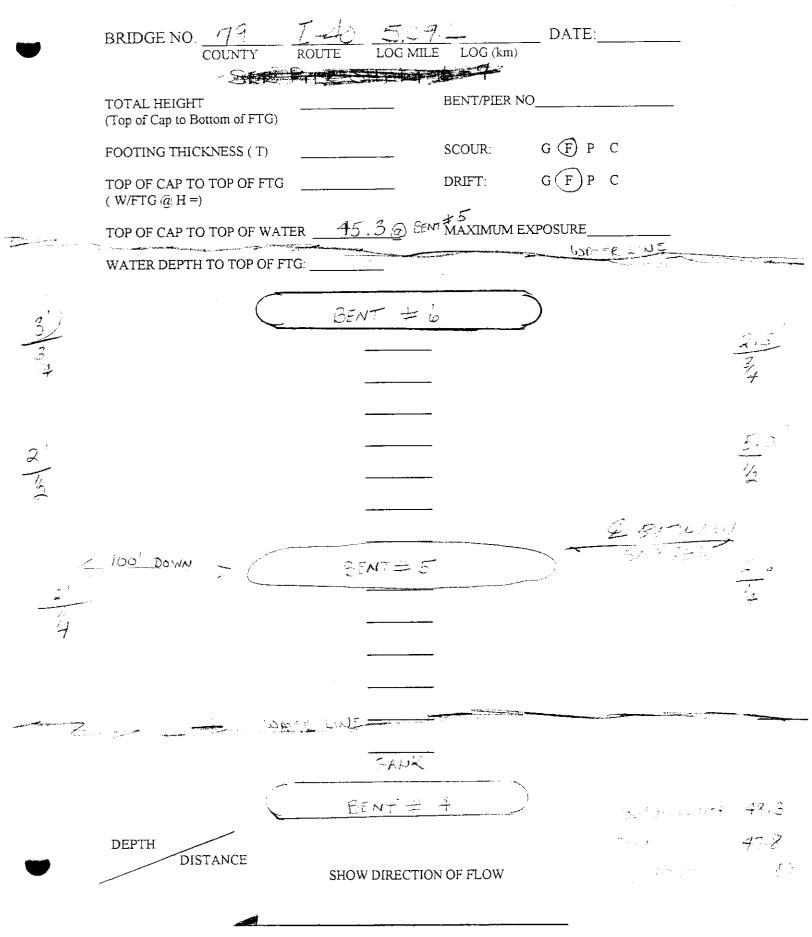
* Height on Re Size

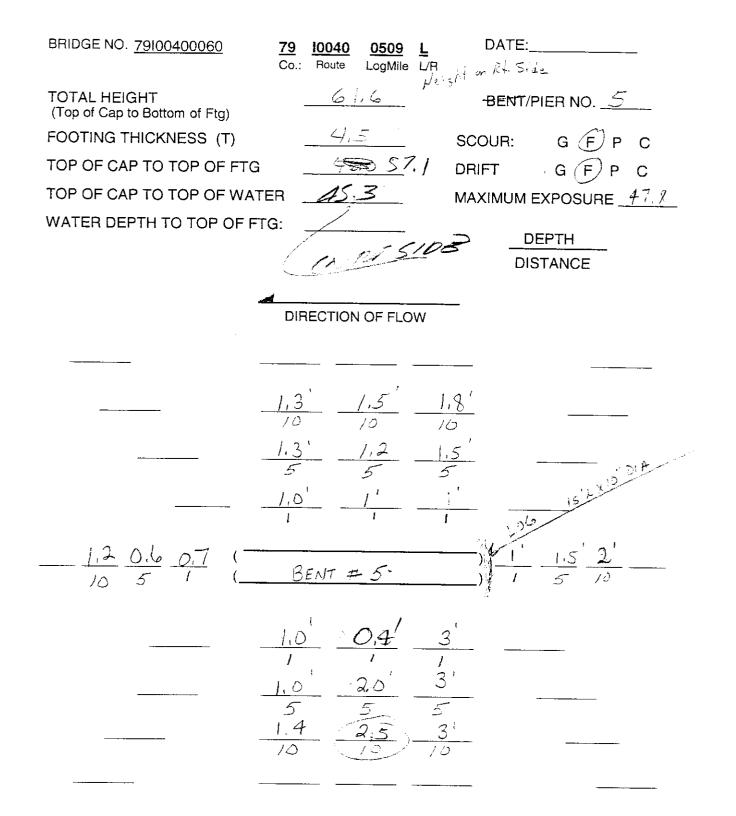
Date: <u>AUG 2,2</u>001 Pg. # _____ of _____

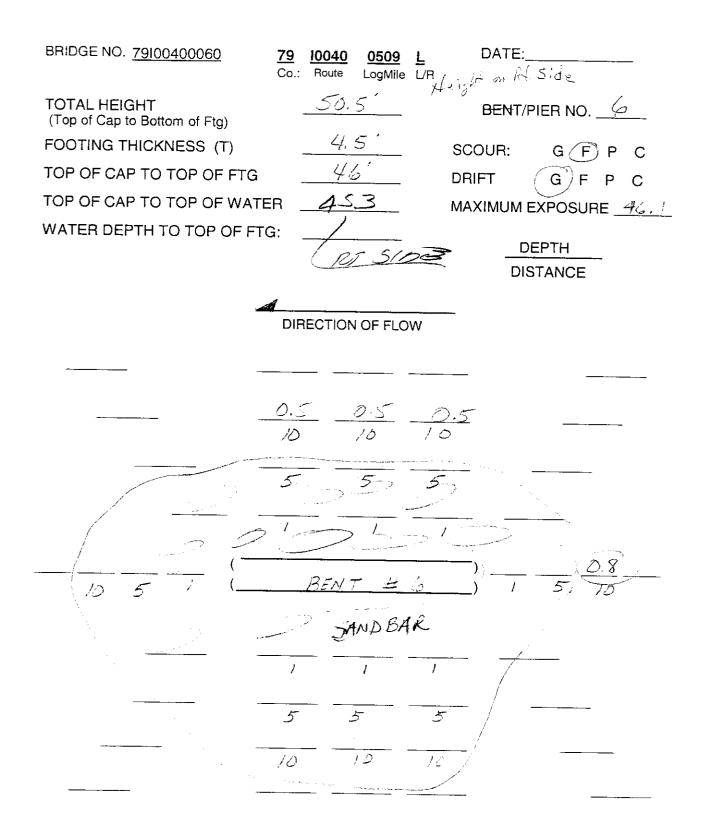
BRIDGE NUMBER: CROSSING:

LAST EXPOSURE	ABUT/BENT/ PIER NUMBER	TOTAL HEIGHT TOP OF CAP TO (OR GROUND LINE/ DATE FOR PILES	(t) FOOTING THICKNESS	W/FTG @ H= TOP OF CAP TO TOP OF FOOTING	EXPOSURE
3,8'	A-1				3.0
30'	P-1	43.7	4,0	36.7	30'
	P-2	55.0	4.5	50.5	34 '
	P-3	60.7	4.5	56.2	34'
	P-4	61.2	4.5	56.7 "	12.5'
46	<u>9-5</u>	61.6	4.5	57.1	47.8
44.5	P-16	50.5	4.5	416.0	46.1
	F.7	50.4	4.5	25.0	38'
	P-8	51,3	2,5	468	32 8'
	F-7	48.3	4.5	44.3	28.0'
2,5'	A ô				2.0'
<u></u>					
THRU STRUC	REAM: <u>50</u> TURE: <u>4</u>	1.8	<u>₩</u> 35 RIP-RA @ BE	NT/PIER NO.:	D: ()
	ISTREAM: <u>4</u>	8.3			, . <u></u>
COMMENTS:					

ACC 64 2201







NOTE NG FROMME MEDIALE, CONFRED MOTH BOTH FORM

-	BRIDGE NO. <u>79</u> County	<u>740</u> route	7,09 LOG MILI	LOG (km)	DATE:	
	TOTAL HEIGHT (Top of Cap to Bottom of FTG)			BE NT/PIER N	ro <u>7</u>	
	FOOTING THICKNESS (T)			SCOUR:	GFPC	
	TOP OF CAP TO TOP OF FTG		<u> </u>	DRIFT:	GFPC	
	TOP OF CAP TO TOP OF WAT	ER		MAXIMUM E	XPOSURE	
	WATER DEPTH TO TOP OF F	TG:				
				DEPT	н	
				DISTAN	 CE	
		DIRECTION	OF FLOW	1 1 1 *		
, 						
		N	01		-	
		`	<u> </u>	<u>}</u>	. ,	
-	(· 五土 7		4	<u></u>
				M	• • • • • • • • • • • • • • • • • • •	
-		- <u> </u>			<u> </u>	
		<u> </u>			_	
	-					

DATE :

10/26/98

NO CHANGE AS OF 08-02-01

RIGHT OR LEFT OF BRIDGE

FEDERAL NUMBER --- 79100400060

BRIDGE NO. - . : ----- 79 - 10040 - 05.09 - L

CROSSING ----- Wolf

NUMBER OF PIERS : -----

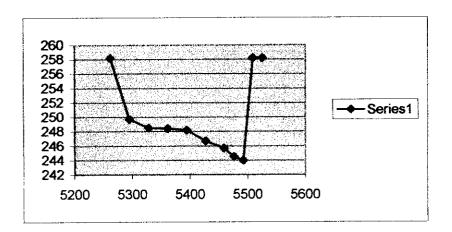
LOCATION OF PIERS : ---

BENCH MARK ELEV	300	INSPECTORS
		Williams
BENCH MARK LOC	abut/wing	Parker
	-	Coats
WATER ELEVATION :	253.2	Kiestler

DISTANCE OF 0.00 = TOP OF BANK APPROACH 1 SIDE

DISTANCE AND ELEVATIONS IN IARE IN STANDARD MEASUREMENT

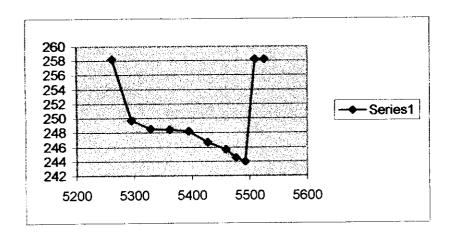
5262	258.2
5295	249.7
5328	248.5
5361	248.4
5394	248.2
5427	246.7
5459	245.7
5476	244.5
5492	244
5509	258.2
5525	258.2



100 FEET	UPSTREAM	, STREAMBED ELEVATIONS BANK	(TO BANK			
RIGHT OR LEFT OF BRIDGE						
FEDERAL NUMBER	79100400060					
BRIDGE NO. · . :	79 - 10040 - 05.09 - L	DATE :	10/26/98			
CROSSING	Wolf					
NUMBER OF PIERS :						
LOCATION OF PIERS :						
BENCH MARK ELEV	300	Williams	INSPECTORS			
BENCH MARK LOC	abut/wing	Parker Coats				
WATER ELEVATION :	253.2	Kiestler				
DISTANCE OF 0.00 = TOF	OF BANK APPROAC	H 1 SIDE				

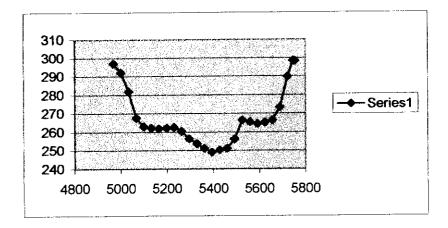
DISTANCE AND ELEVATIONS IN IARE IN STANDARD MEASUREMENT

5262	258.2
5295	249.7
5328	248.5
5361	248.4
5394	248.2
5427	246.7
5459	245.7
5476	244.5
5492	244
5509	258.2
5525	258.2



	UPSTREAM OF
4967	297
5000	292
5033	281.9
5066	267.6
5098	263
5131	262.3
5164	261.8
5197	262.3
5230	262.5
5262	260.4
5295	256.3
5328	253.8
5361	251.2
5394	249
5427	250.3
5459	251.2
5492	256.2
5525	266.3
5558	265.4
5591	264.4
5623	265.1
5656	266.3
5689	273.3
5722	289.8
5745	298.4
5748	298.3
5755	298.3

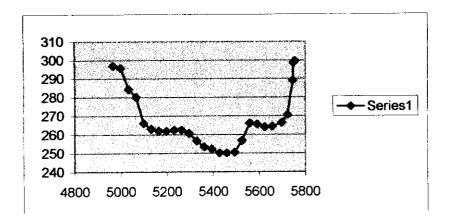
UPSTREAM GROUND ELEVATIONS @ EDGE OF BRIDGE



	DOWNSTR	EAM GROUND ELEVATIONS @ EDGE OF BRIDGE
4967	296.9	
5000	295.8	
5033	284.3	
5066	280.2	
5098	266	
5131	263	
5164	262	
5197	261.8	
5230	262.4	
5262	262.4	
5295	260.6	
5328	256.6	
5361	253.5	
5394	252.3	
5427	250.2	
5459	250.2	
5492	250.5	
5525	256.8	
5558	265.9	
5591	265.4	
5623	264	
5656	264.2	
5698	266.2	
5722	270.6	
5745	289.1	
5748	298.5	

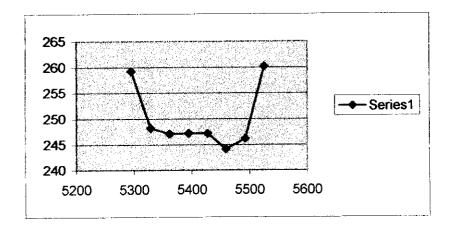
5755

299.5



100 FEET DOWNSTREAM, STREAM ELEVATIONS BANK TO BANK

5295	259.2
5295	
5328	248.2
5361	247.1
5394	247.2
5427	247.2
5459	244.2
5492	246.2
5525	260.2



SEP 1 6 1999 BRIDGE NO. 79 - 740 - 509. DATE : BENT/FIER NO. 5 TOTAL HEIGHT (Top of Cap to Bottom of FTG) G F P С SCOUR: FOOTING THICKNESS (T) G F P DRIFT: TOP OF CAP TO TOP OF FTG С MAXIMUM EXPOSURE TOP OF CAP TO TOP OF WATER WATER DEPTH TO TOP OF FTG: DEPTH 1-PSTRUT 14.5 DISTANCE TOP WATER DIRECTION OF FLOW <u>1,5'</u> 15' 1.6' <u>1,6'</u> 10' <u>0.6</u> 10' 1.6' <u>1.3'</u> 5' <u>1.0'</u> <u>6,9</u>, 5, 0,6, 1, 1.16 5' 0.5' 1.5' 1.7' 2.0 1.0' BENT #5 0.5' 1.5' 1.8' 2.0' 15' 10' 5' 1' BENT #5 1' 5' 10' 15'

 $\frac{2.0'}{1'}$ $\frac{1.0'}{1'}$ $\frac{1.0'}{1'}$

<u>1.5' 1.0' 2.0'</u> 5' 5' 5'

<u>3,0'</u> 10'

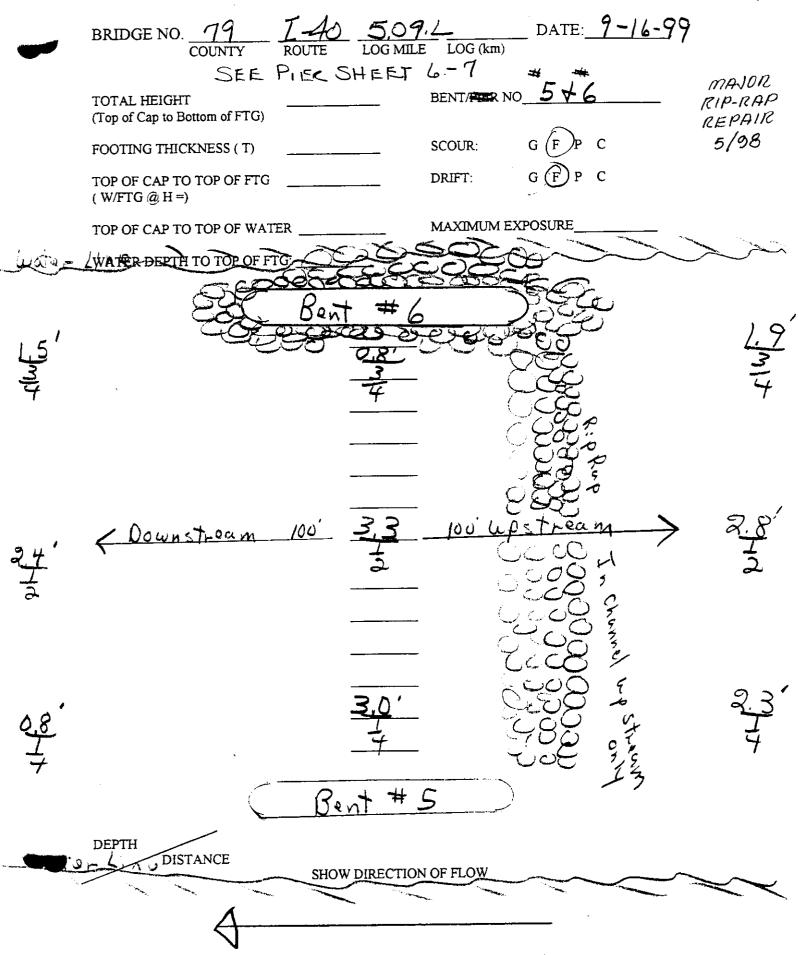
<u>3.0</u>. 15-1

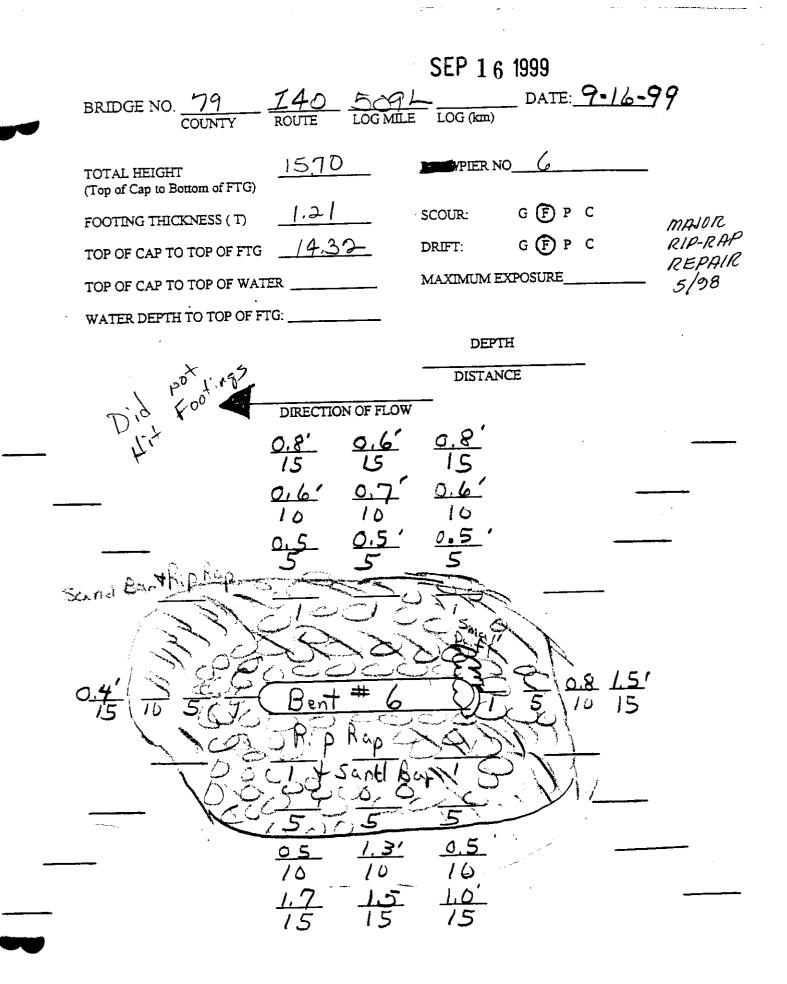
 $\frac{2.01}{10.}$ $\frac{1.6}{10.}$

<u> 2.3'</u> <u>2.5'</u> <u>2.3'</u>

SEP 1 6 1999







SEP 1 6 1999

-

BRIDGE NO. <u>79</u>		,091	DATE:	
COUNTY	ROUTE LO	G MILE LOG (ka	1)	
TOTAL HEIGHT (Top of Cap to Bottom of FTG)	15,30	. BENT/PIER	NO_7	
FOOTING THICKNESS (T)	1.21	SCOUR:	GFPC	
TOP OF CAP TO TOP OF FTG	13.92	DRIFT:	GFPC	
TOP OF CAP TO TOP OF WA	TER	MAXIMUM	(EXPOSURE	
WATER DEPTH TO TOP OF F	TG:	_		MAIBR
		DE	PTH	RIPRAF
		DIST	ANCE	REPAIR 5/98
\leftarrow	DIRECTION OI	FLOW		5/50
•				
	<u> </u>			
	<u></u>	· · · · · · · · · · · · · · · · · · ·		
	•			
		·		
(Bent #	<u>η</u>		<u></u>
	Not -	in Water	-	
	·	· · · · · ·		
	-			

.....

SEP 1 6 1999

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	Rev.: 07/2			DATE: <u>7-16</u>	-99	÷
	BRIDGE NUM	IBER: <u>79</u> - <u>I</u> -40 COUNTY ROUTH	D - <u>5092</u> E LOG MILE	Pg. # LOG (km)	of	
	ABUT/BENT PIER NUMBER	TOTAL HEIGHT TOP OF CAP TO (OR GROUND LINE/ DATE FOR PILES	(t) FOOTING THICKNESS PLA	W/FTG @ H = TOP OF CAP TO TOP OF FOOTING NS - (YES)	EXPOSURE	Hs
-	A-1	Metric	Metric	metric	3,8'	
_	P-1	12.46	1.21	11,24	29.95	
_	P-2	16.47	1.21	15,45		
_	P-3	17.81	1.21	16,59		
_	P-4	18,62	1.21	17.40		
_	P-5	 8.79	4.0	+757	46,25	(
13:00	e P-6	50,53	1.2.7	46.0	44,47	
	P-7	15,30	1.37	1392		J
_	P-8	16.18	1.37	14.81		
	P-9	15.48	137	4.1		
_	A-Z				2.5	
_						
_		PLANS	MEASI	REMENT		
_		from 9	5 Rep	bet.		
_						
	OP OF CAP TO	D TOP OF WATER:	RIP-R @ BI	AP: YES (X) NO: (ENT / PIER NO.: 5, 6, 7, 8, 9)	
г	THRU STRUCT	URE:		·		
3	0.48 m DOWN	STREAM:		1 . 0		
. C	COMMENTS:	Did Not A	it foot	ting on B	<u>ant 54</u> /2	, >
-			•			

RIP-EAP ADDED 5/98

80

DEC 12 1997

9,90 m

10,05 m

14,25 m

13. 70m

9,38m

10.14m

82 M

8.20m

12.80m 41.957

15,45

6.59

740

157

4.32

1392

14.81

14.11

5EG Has Rid-RAD

NO: ()

APOUND PIERS CONERED WITH SAND

MEASUREMENT

Report.

Rev.: 07/25	9/97		DATE: 12/1	2/97
BRIDGE NUM	BER: <u>79</u> - <u>I-4</u> COUNTY ROUT	0 - <u>509</u> 2 E LOG MILE	Pg. # LOG (km)	of
ABUT/BENT PIER NUMBER	TOTAL HEIGHT TOP OF CAP TO (OR GROUND LINE/ DATE FOR PILES	footing thickness PLA	W/FTG \widehat{a} H = TOP OF CAP TO TOP OF FOOTING NS - (YES)	EXPOSURE
A-1				1,10 m
P-1	12.46	121	11,24	8.330

1.21

1.21

1.21

121

121

1.37

1.37

137

16.47

1.8

18.62

18.79

15.70

15,30

16.18

15.48

from

30.48 m UPSTREAM: 14.25 m

30.48 m DOWNSTREAM: 14.25

THRU STRUCTURE: 14.25m

ANS

TOP OF CAP TO TOP OF WATER: / 3,25 RIP-RAP: YES (A)

95

61.1

P-2

P-3

P4

P-5

P-6

P-1

P-8

P-9

A-2

REPAIRED 5/08

BENT ARCUNO COMMENTS: THERE is LIME SEM E6 COTTO wit SAND Protecteo From SCOUR BEDT #7 110-CHANNEL -77425 OF CHANNEL 15 IN INSPECTION. But is IN CHANNEL DURING HIGH WATER. BEDT # 7 is within 5179 METERS OF EDGE OF WATER.

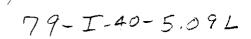
But is only iso merses From EDGE OF CHANNEL.

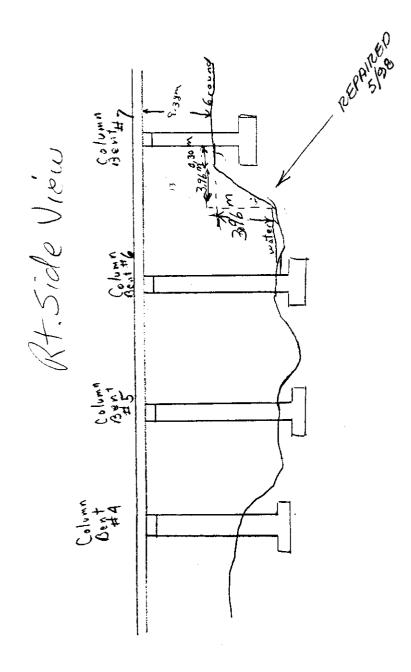
71

70 T 10	Eng	DATE:	DEC 12 1997
COUNTY ROUTE	LOG MILE LOG (km		V
SEE PIERS	SHEED-6-7 BENT/PIER		
TOTAL HEIGHT $\frac{\#_{f}}{2}$ (Top of Cap to Bottom of FTG)	BENT/PIER		
FOOTING THICKNESS (T)	SCOUR:	GFPC	
TOP OF CAP TO TOP OF FTG (W/FTG @ H =)	DRIFT:	GFPC	
TOP OF CAP TO TOP OF WATER _/ 3	<u>25</u> MAXIMUM	EXPOSURE	
WATER DEPTH TO TOP OF FTG:			
Column Bent	$\neq \frac{15,30}{7,13,92}$	\supset	
\uparrow		↑ <u> </u>	الم
- 5.79 1, S,	AND	2	
			3
	e160m) = = 0-85m
$\frac{3}{4} = 0.80^{\text{m}}$			
Bertt	# \$ 15:70 ***	\bigcirc	
$\frac{1}{2} = 1.00^{m}$	m		1 = 1.00 m
	1,00 m		
and the second se	Rock &		· .
Column	18,79 #5 17,57m	· · · ·)
4=0,32 sm Bent	1 SAND	1160m	$\frac{1}{4} = 0.63^{m}$
DEPTH	10.00 m		
DISTANCE	W DIRECTION OF FLOW		
ei ei	V SAND		
	ow		

•

DEC 12 1997





		DEC 12 1997
BRIDGE NO. 179 IA	LOG MILE LOG (KIII)	DATE: 12-11-97 73
TOTAL HEIGHT <u>+5</u> (Top of Cap to Bottom of FTG)	79 M D	35 22
FOOTING THICKNESS (T)	SCOUR: G	P P C
TOP OF CAP TO TOP OF FTG		FPC
TOP OF CAP TO TOP OF WATER /	.25 MAXIMUM EXPC	SURE 14,25 ^m
WATER DEPTH TO TOP OF FIG:		
	DEPTH	
	DISTANCE	
DIRE	TION OF FLOW	
	<u> </u>	
<u>7,00</u> 3.05 <u>0,4</u> 1.52 0.30 130	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
		-30-060 152 3.05
	<u>,30</u> , <u>30</u> , <u>30</u> , <u>30</u>	
<u> </u>	<u>0,40^m</u> <u>0,62^m</u> <u>1.52</u> <u>1.52</u>	·
<u>0,4.</u> 3,:::	m 0,60 0,78 m 3.05 3.05	

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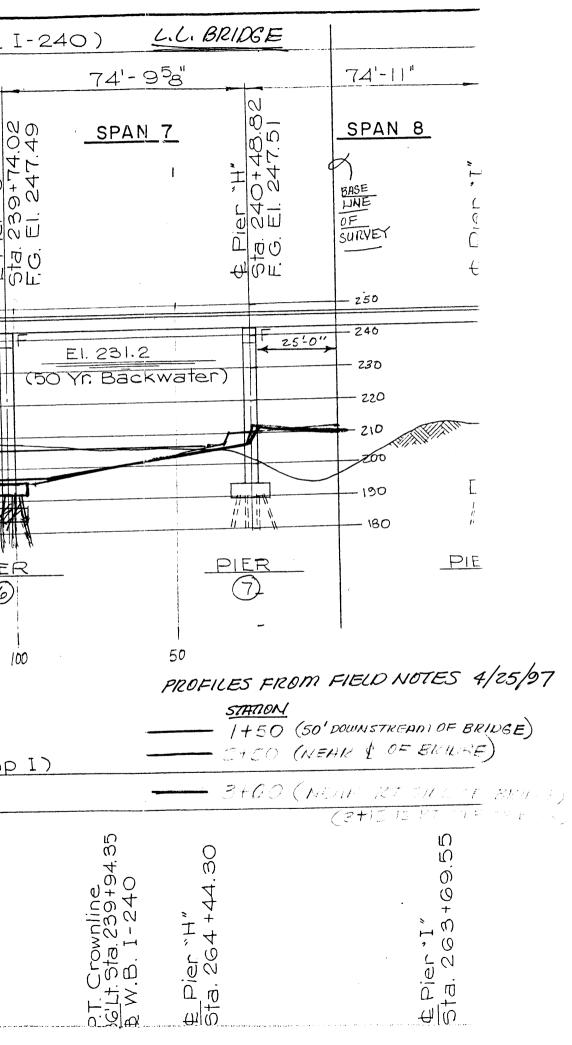
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BRIDGE NO. $\frac{79}{\text{COUNTY}}$ $\frac{7.97}{\text{ROUTE}}$ $\frac{7.97}{\text{LOG MILE}}$ $DATE: \frac{12-1/-97}{12-1/-97}$ 73 TOTAL HEIGHT $\frac{15:30}{(109 \text{ of } 000000 \text{ of FTG})}$ $\frac{15:30}{12-1}$ $BENT/PER NO$ $\cancel{2}$ $\cancel{6}$ $\cancel{7}$ \cancel						•		DEC 12	
(Top of Cap to Bottom of FTG) FOUTING THICKNESS (T) $1.2.1$ SCOUR: G (3 , P, C TOP OF CAP TO TOP OF FTG 13.9 DRIFT: (3) F, P, C TOP OF CAP TO TOP OF WATER $13.2.5$ MAXIMUM EXPOSURE WATER DEPTH TO TOP OF FTG: DEPTH DISTANCE DIRECTION OF FLOW 0.45° 0.140° 0.25° 3.65 0.25° 3.65 0.152° 3.65 0.152° 0.	•	BRIDGE NO.	the second se	<u>T40</u> ROUTE	1,09 LOG MILE	LOG (km)	DATE: <u>12</u>	-1/-97	75-
TOP OF CAP TO TOP OF FIG 13.91 TOP OF CAP TO TOP OF FIG $13.2.5$ WATER DEPTH TO TOP OF WATER $13.2.5$ WATER DEPTH TO TOP OF FIG: DEPTH DISTANCE DIRECTION OF FLOW 0.45° 0.140° 0.25° 3.05 $3.050.30^{\circ} 0.15^{\circ}1.52$ 1.52 1.52 $1.523.053.053.053.051.52$ 1.52 $1.523.053.053.053.053.053.053.053.053.053.053.053.053.053.053.053.053.053.053.051.52$ $1.523.051.52$ $1.523.051.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ $1.521.52$ 1.52		TOTAL HEIGHT (Top of Cap to Bo	- ottom of FTG)	15;3	<u>ð</u>	BE NT/PIER N	0 🗿 🦉	, >	
TOP OF CAP TO TOP OF WATER $13,25$ MAXIMUM EXPOSURE WATER DEPTH TO TOP OF FTG: DEPTH DISTANCE DIRECTION OF FLOW $\frac{0,45}{3.05}$ $\frac{0.75}{3.05}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.75^{\circ\prime\prime}}{1.52}$ $\frac{3.0}{1.52}$ $\frac{0.75^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.75^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.75^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.25^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.25^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.25^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $\frac{0.25^{\circ\prime\prime}}{1.52}$ $\frac{0.30^{\circ\prime\prime}}{1.52}$ $$		FOOTING THIC	KNESS (T)	1.21		SCOUR:	G 🕞 P C		
WATER DEPTH TO TOP OF FTG: DEPTH DIRECTION OF FLOW $0,45^{\circ}$ 0.75° 3.05 $3.050.15^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.75^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.30^{\circ}0.520.30^{\circ}0.520.$		TOP OF CAP TO) TOP OF FTG	13,9	<u>}</u>	DRIFT:	GFPC		
DEPTH DISTANCE DIRECTION OF FLOW $\frac{0.45}{3.05} \frac{0.25}{3.06}$ $\frac{0.30}{1.52} \frac{0.15}{1.52}$ $\frac{0.30}{1.52} \frac{0.15}{1.52}$ $\frac{0.30}{1.52} \frac{0.15}{1.52}$ $\frac{0.30}{1.52} \frac{0.25}{1.52}$ $\frac{0.30}{1.52} \frac{0.30}{1.52}$		TOP OF CAP TO	TOP OF WAT	ER 13,2	5	MAXIMUM E	XPOSURE		
DISTANCE DIRECTION OF FLOW $0, 45^{\circ}$ 0.75° 3.05° 3.06° 0.30° 0.15° 1.52° 1.52° 30° 1.52° 1.52° 30° 1.52° 1.52° 30° 1.52° 1.52° 3.05° 1.52° 1.52° 3.05° 1.52° 1.52° 3.05° 1.52° 1.52° 3.05° 1.52° 1.52° 3.05° 1.52° 1.52° 1.52° 1.52°		WATER DEPTH	TO TOP OF F	TG:					
DIRECTION OF FLOW $\frac{0.45}{3.05} \underbrace{0.75}_{3.05} \qquad \underbrace{0.75}_{3.05} \qquad \underbrace{0.75}_{3.05} \qquad \underbrace{0.75}_{1.52} \qquad 0$						DEPT	H		
$\frac{0.45}{305} \underbrace{0.740}_{3.05} \underbrace{0.75}_{3.05}$ $\frac{0.30}{1.52} \underbrace{0.152}_{1.52} \underbrace{0.152}_{1.52}$ $\frac{0.30}{1.52} \underbrace{0.152}_{1.52} \underbrace{0.20}_{1.52}$ $\frac{0.20}{3.05} \underbrace{0.20}_{1.52} \underbrace{0.20}_{1.52} \underbrace{0.20}_{1.52}$						DISTAN	CE		
$3.05 3.05 3.05$ $0.30^{m} 0.1/5^{m}$ $1.52 1.52 1.52$ $30 1.52 1.52$ $3.05 1.52 300^{4}$ $3.05 1.52 3.05$ $1.52 1.52 1.52$ $1.52 1.52 1.52$				DIRECTION	I OF FLOW				
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3.25 3.25						50,5		-	
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			750'-9'8"	Bk. To Bk.	Abutments	(Along W.E	3. 10
4'-9"	74'-9"	74	-9"	74'-9'		74'-9'8"	
SPAN 2	& Pier . C" 51a. 236+75.0 F.G. El. 245.7 	ф Рієг "D" 5ta. 237+49.75 F.G. El. 246.41	ш С С	() <u>SPAN 5</u> 0 0 1	& Pler "F" 51a. 236199.26 F.G. El. 247.30	SPAN 6 AHEAD	E Pier. "G"
	PIER See Dwg. M-44-8 St and estimated	PIER 3 for pile 30 tip elevations	37 Reg.)	2	a.6 (50 Yr.)	WATER ELEV. 200	
			749'-0		<u>. Abutmente</u> At. 74'-9" =	598'-0"	Ramp
¢ Dra	in thru parapeta	ta. 267+06.44 2. Ramp I 18' Lt. Sta. 237+86.61 1. B. B. L. 240	: Pien "E" 51a. 266+68.55	RIVER	ран Сан 19 19 19 19 19 19 19 19 19 19 19 19 19	itandard(Typ.)	5ta. 265+19.05

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BK TO BK Abutments (Along W.B. B I-240) TEOL OLO"

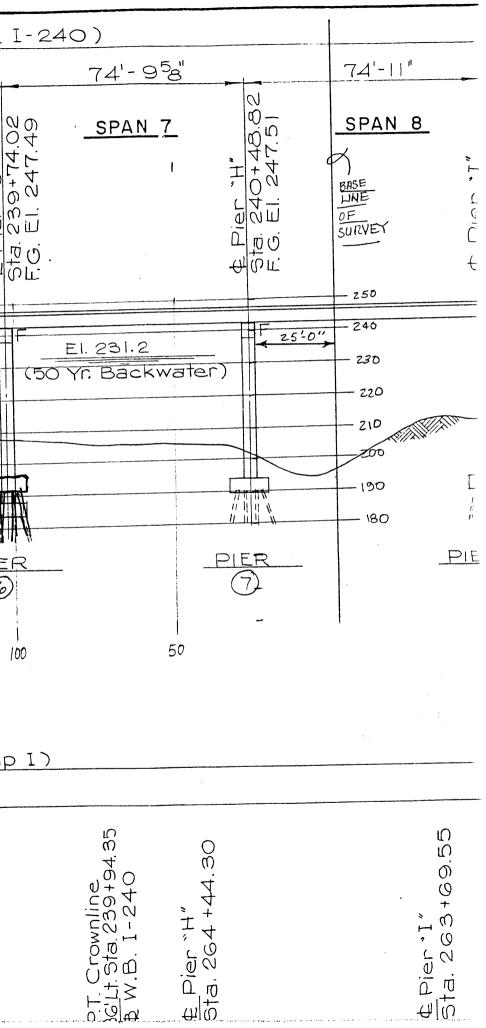


+'-9"	74'-9"	74'-9"	74'-9"	74'-9'8"
SPAN 2	& Pier C 51a. 236+75.0 F.G. El. 245.71 F.G. El. 245.71	C D SPAN 4 D STA. 237+49.75 F.G. EI. 246.41 F.G. EI. 246.41 P.G. SPAN 4		C Pier "F" 543 236+99.26 F.G. El. 247 30 F.G. El. 247 30 F.G. 26 Pier "G"
P	IER Dwg. M-44-89 J and estimated t		(1) 250 200 ELE	

750'-9'8" Bk. To Bk. Abutments (Along W. B. & I-240)

749'-6" Bk. To Bk. Abutments (Along & Ramp I)

	8 Spans At. 74'-9" = 598'-0"
E Drain thru barabets 1 Alt Star 237+86.61 Alt Star 237+86.61 A	Pien * C Pien * F Pien *





STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION P. O. BOX 429 JACKSON, TENNESSEE 38302-0429 April 30, 1997

Memorandum

TO: MR. PAUL SHARP, CIVIL ENGINEERING MANAGR I (Undy Wacker For P FROM: MR. BILL HAZLERIG, REGION BRIDGE ENGINEER

SUBJECT: BRIDGE #79 - 10040 - 5.09L & R

Please find enclosed scour notes on the above referenced structures. Also enclosed is a copy of the fax requesting this scour inspection footnoted with an explanation of the "reinforcing rods".

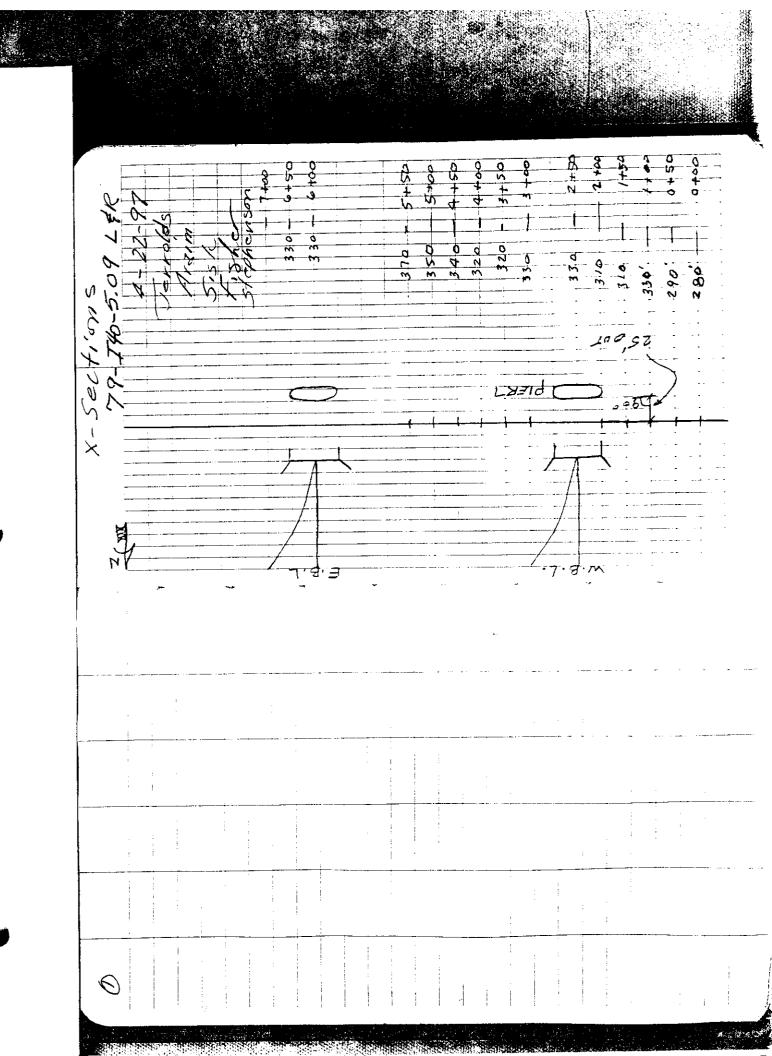
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D.O.T. ERIDGE INSPECTION & REPAIR PUS



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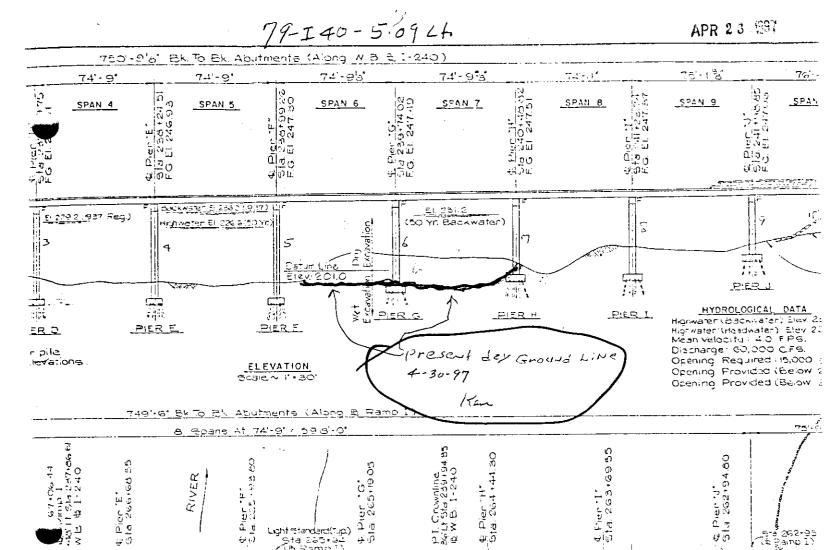
1.70200 N 6702 000 0'802 N 4-25-97 -1049C 1:40% 00 0 996 5302 0m 2,802 0.302.00 500 5000 0 -902 645120 7 *56* . • 2'66 11 24 10 683 +361 8.76 ∇ 0100 67.61-Ria 1.8% 8 t'ssr X-Ficker M-Seven X Jolus 1 ň 2 10 g 0.00 01902 t 0.202 E.1/2 410 0.012 MM 0.012 10.0 Better 0/12 410 N O 10 E:1 13 8.00 Eleu 217.25 S) V H. I. 21554 Ŋ ł 8.5. -1.71 2+50 1+50 2100 Sta \bigcirc

0.802 NN 5'802 0 0 Nm 3 8020 B 4-25-97 1802 Nm 110.00 0 N 305 4 M +'302 NM 0.202 2000 5.902 Solo 0.302 0.N. 686/ 30 0.661 200 20.002 2000 7261 20 8'76100 1 881 20 B.M. See Pg. 0'461 200 L'161 200 7-961-5 6.30 Z 06.0 8112 N 4 1.112 min 5'112 4 m E 0/2 NO E:012 200 E:012 1/0 +1.71 217,25 ř. V. H, Z. 21554 : 85 2700 3400 3150 A K

100 1.802 200 toto 5:800 E:802 4-25-97 1 801 X 0 1:802 2 802 ピー 0.902 5 W/1 0 0.190 The ZAMI Die Adole 1 1 *41.* 5:66 264 18/ ala 2.26 6 foc, なか \$1º 007 τ 00 200 000 0-202 Ū \mathcal{T} Q,~ 51 2-112 410 Ż 0 Ballow 10 > 0 4 0 40 8.012 0/2 6 L'012 216,75 Eler 21a75 26.0+ どろ Ŋ 8 215 Ĭ B.S. 4750 5+50 5+00 24 c Θ

4-25-97 1112 NIM -1:012 mm 0:902 0:00 5761 NOE 5761 NOE 0-902 0'951 08 N 9'661 8:54 200 2.791 846/00 5,005 200,2 L 861 MM 2.205 208.2 1.012 2.00.1 1.012 2.00.1 6.305 206.0 215 9.112 t 9'602 313 9-802 0 00 8'202 NO: Elev. 21/275 Ľ. On 40 Cont. Next H. 214 B.S. 2.71 6750 7400 640 543 6

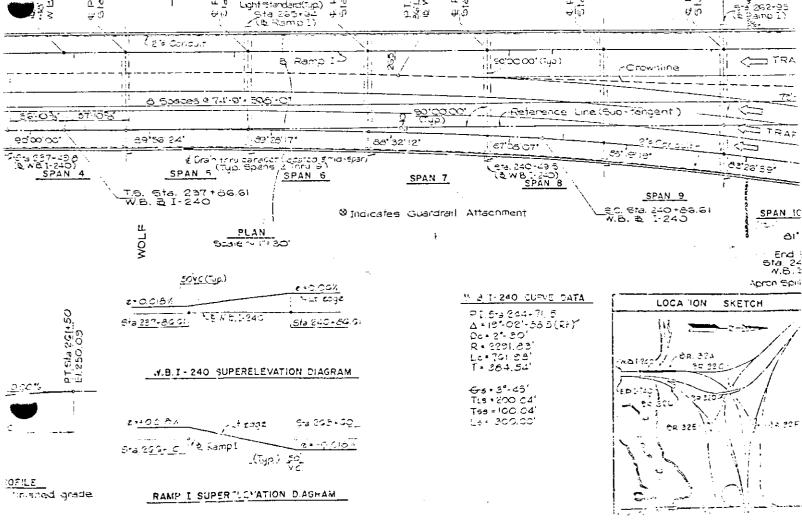
4-25-97 #561 E85/ 419 B.1.9. See. R. 6 2.002 W 12 -2:802 000 -2:802 000 -216.74 Eleu S. Z. 42.70 H II. B,S, 7750



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Light Standard(Typ) Stal 285+94 Z(B_R3mp I)



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BIR 3.8A - USE FOR ANY BRIDGE WITH OBSERVED OR POTENTIAL SCOUR DT-1509

BRIDGE LOC. NO. 79 - 140 - 569L DATE APR 28 1997 CO. RTE. L.M. STREAM CHANNEL DATA AND CONDITIONS PIER & STREAM CROSSING: PIL ABUTS BEN WOIF RIVER CHANNEL BED MATERIAL ર્સ્ટ 8 5 ò I. SCOUR LOCATIONS: L 1. ABUT/PIER/BENT_4 5 2. ABUT/PIER/BENT-L 1 1 3. ABUT/PIER/BENT-6 V 4. ABUT/PIER/BENT-5. ABUT/PIER/BENT-6. ABUT/PIER/BENT-7. ABUT/PIER/BENT-II. HAS THE CHANNEL SHIFTED? (CHECK ANSWER) LATERALLY VERTICALLY NO MOVEMENT [] NOT APPARENT [] NO MOVEMENT ['] NOT APPARENT [] SLIGHT (<=1') ['] MODERATE [] SLIGHT(<=1') [] MODERATE [] SEVERE (> 5') [] III. ARE EMBANKMENT OR APPROACH SUBSTRUCTURE BEING THREATHENED BY BANK FAILURE? YES [V] NO [] IV. CHANNEL AND BANK STABILITY CONDITIONS: (CHECK IF APPLICABLE) (1) STEEP BANK - FAILURES UPSTREAM [] DOWNSTREAM [] CONDITIONS (2) MODERATE BANK EROSION [1] (A) LOW GROWTH [] (B) LARGE TIMBER [(C) DEAD TREES [(D) CLEAR BANKS [(T) (3) BANK VEGETATION (C) DEAD TREES (C) (D) CHEAR DEALS (C)
(4) SEDIMENT OR GRAVEL ACCUMULATION: YES [] NO [] UNKNOWN [
(5) CHANNEL ALTERED OR STRAIGHTENED: YES [] NO [] UNKNOWN [
(6) STABLE CONDITIONS: (A) LIVE GROWTH [] (B) BEDROCK [
(C) BOULDERS [] (D) FLAT SLOPES [VEGETATION (< = 2:1)

BIR 3.8B - USE FOR ANY BRIDGE WITH OBSERVED OR POTENTIAL SCOUR Rev. 6-9-92 DT-1509

BRIDGE LOC. NO.: 79 - F40 - 507L DATE: <u>APR 28 1917</u> CO. RTE. L.M.

STREAM CHANNEL DATA AND CONDITIONS (CON'T)

v.	Wate	erway adequacy and debris characteristics: (check if applicable					
	(1)						
	(2)						
	(3)	Large scour (blowhole) under bridge []					
	(4)	Indications that flood waters overtop bridge: NO [/] YES [] ->OCCASIONALLY [] FREQUENTLY [] UNKNOW []					
	(5)	Debris characteristics: (a) debris present: YES [/] NO [] (b) debris likely to accumulate: YES [/] NO [] (c) dead trees upstream: [/] or downstream [/]					
VI.	Cond	ition of rip-rap? G F P C Est. % failed: N/A: [/]					
VII.	Under	water diver inspection recommended? YES V NO					
VIII.	Overall condition of channel? G F G C						
IX.	Item	61 - Code values 0 thru 9 according to the recording and coding guide currently in effect: <u>4</u>					
х.	Comme	ents: <u>channel hes moved for original Position 110't toward Abut. #2.</u> Bent # 6# 7 now Cacetor in channel, with ground hive dose to footing.					
* * *	* * *	* * * * * * * * * * * * * * * * * * * *					
		SPECIAL INSPECTION DATA (FOR REASONS OTHER THAN FC OR SCOUR)					
I.	Does	this bridge need a special inspection? YES [] NO [×]					
II.		n for special inspection:					

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REV. 07-01-91

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BRIDGE NO. $\frac{79}{\text{COUNTY}}$ TOTAL HEIGHT (TOP OF CAP TO BOTTO FOOTING THICKNESS (t) (TOP OF CAP TO TOP OF W/FTG @ H =	M OF FOOTIN	ig): <u>61.09</u> 2 : <u>4.0</u> t : <u>57.09</u>	(ア) SCOUR DRIFT MAXIMU (ア)	IER NO. 4 G F P C G G P C sec 0 M EXPOSURE 40.1	
TOP OF CAP TO TOP OF		: <u>36.1-</u>	1) = (inder we ter drift	
WATER DEPTH TO TOP FO	OTING	:			
	5	5 40	4		
	5	50	4	а ШЛ В О	
	_4	620	5	Ľ. C	5
— /	4	6	<u>4-</u>	DIRECTION	
/	4	4	9_		
30 4 20 47 10 47 1 4 3- 40 2- 50			-0-	1 103 203	10 4/4 × 15
	2	<u>.3</u>	<u>z_</u>		50
	4	4 10 30	3_		
\mathbf{X}	2	3	2_	/	
DEPTH	and an and a second second		line i silasan		
DISTANCE	SHOW	DIRECTION C	OF FLOW		
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DATE APR 2.8 1097

, cî ^s ,	BRIDGE NO. $\frac{79}{\text{COUNTY}}$ TOTAL HEIGHT (TOP OF CAP TO BOTTON FOOTING THICKNESS (t) (TOP OF CAP TO TOP OF W/FTG @ H = TOP OF CAP TO TOP OF W	ROUTE LOG 1 OF FOOTING FOOTING) NATER	MILE : <u>61.67</u> g	(P) SCOUL DRIF MAXI (P) DRIF	PIER NO. <u>5</u> R : G F P C T : G R P C Scell MUM EXPOSURE D = Under wete	0 2 <u>43.5´</u>
I	WATER DEPTH TO TOP FOC	TING			D: under weld drift	\checkmark
	•	<u>b</u>	6 40 6 30	6		
		<u></u>	5 20	<u>b</u>		OF ROUTE
		6	5 0	Ь	\ \	DIRECTION
		. 7	<u> </u> 	4		DIR
30/6	6 1 6 01 6 05				511 51	16 5 20 5 20 7 5 5 50 50
		5	5			50
	\mathbf{X}	5	5	<u>5</u>		,)
ر ا	DEPTH	5	5 20	4		/
-	DISTANCE	5	5 25 40	<u>4</u> 4-		
	• •	SHOW	DIRECTION O	F FLOW	_	
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REV. 07-01-91

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DATE APR 2 8 1097

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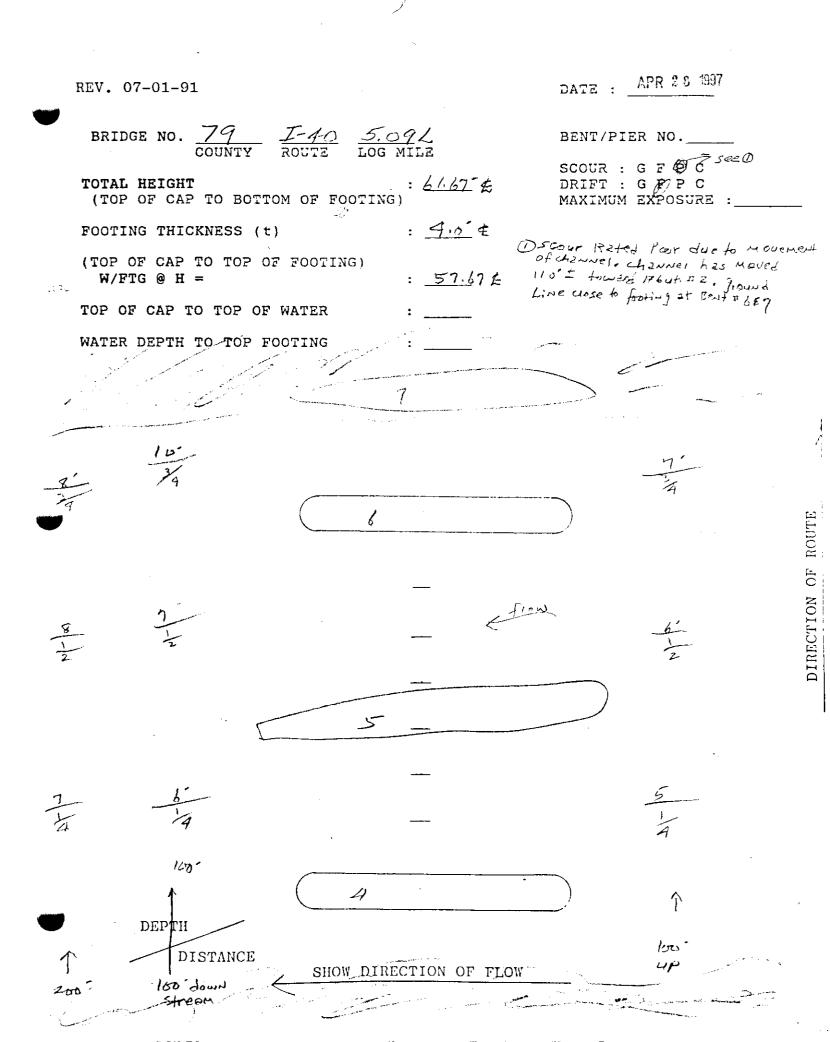
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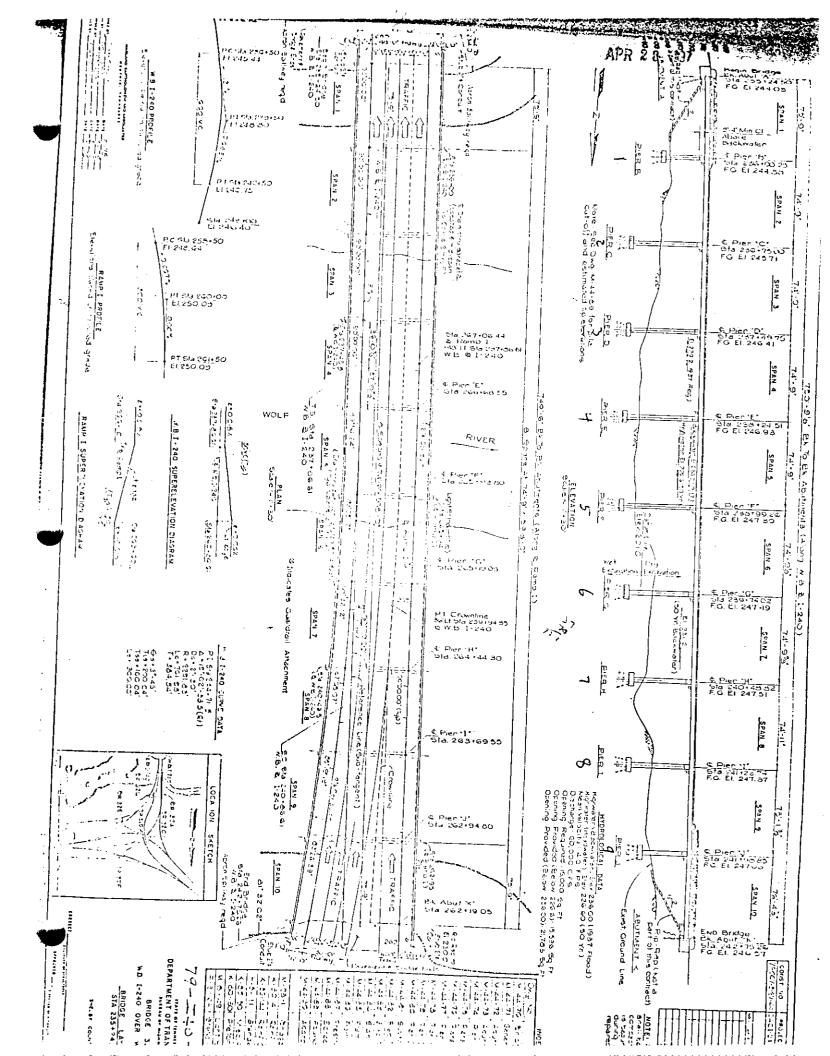
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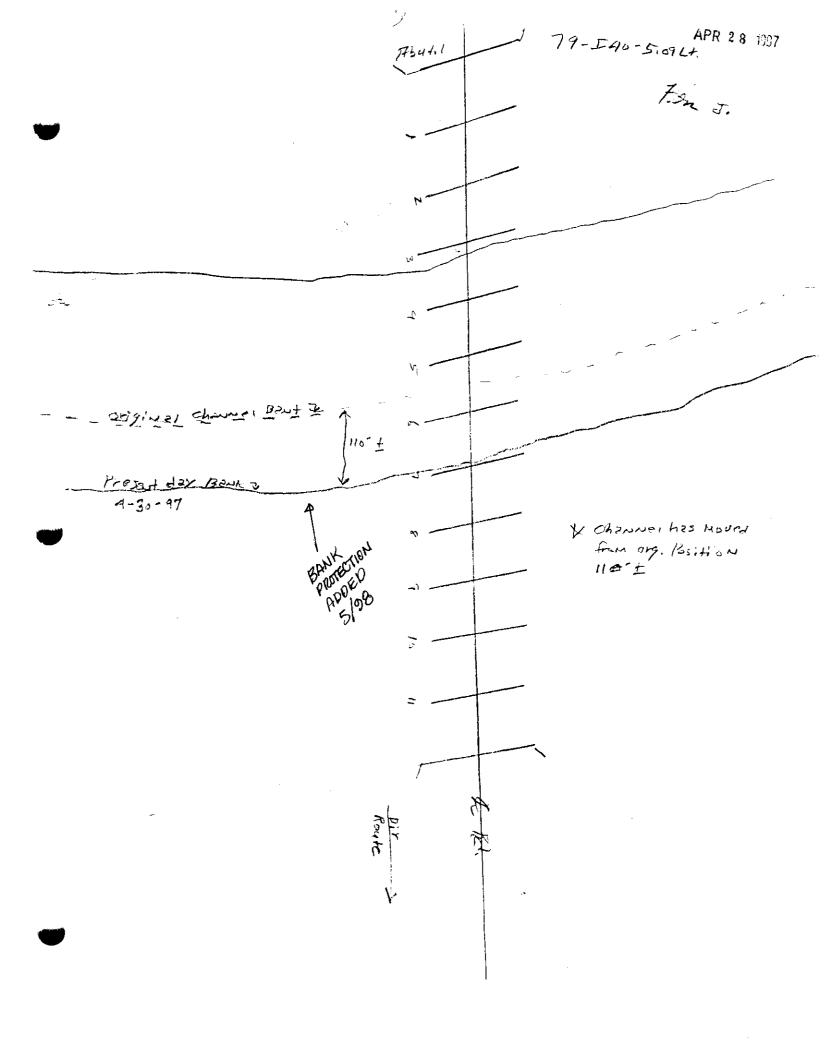
BRIDGE NO. $\frac{79}{\text{COUNTY}}$ TOTAL HEIGHT (TOP OF CAP TO BOTTON FOOTING THICKNESS (t) (TOP OF CAP TO TOP OF W/FTG @ H = TOP OF CAP TO TOP OF WATER DEPTH TO TOP FOR	M OF FOOTING FOOTING) WATER	:51,514	(P) SCOUL DRIFT MAXI (P) (D) SCOUL	PIER NO. 6 R : G F O See O F : OF P C MUM EXPOSURE <u>42.5</u> MUM EXPOSURE <u>42.5</u>
	9 9 8 6 5	$\frac{8}{40}$ $\frac{7}{30}$ $\frac{8}{20}$ $\frac{6}{10}$ $\frac{6}{1}$	7_ 7_ 7_ 6_ 6_	Channel.
$\frac{1}{9} \frac{1}{9} \frac{1}$	6 5 7 6 SHOW 1	$\frac{6}{1}$ $\frac{5}{10}$ $\frac{7}{20}$ $\frac{7}{30}$ $\frac{7}{30}$ $\frac{7}{30}$ $\frac{7}{44}$ DIRECTION C	$\frac{S}{2}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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APR 2 8- 1997 BRIDGE NO. 79 Ito 5.07 Lt. - DATE . TOTAL HEIGHT: BENT/PIER NO. 7 50.20 (TOP OF CAP TO BOTTOM OF FTG.) SCOUR: G F Ø СŚ FCCTING THICKNESS (t): 4.5 DRIFT: C) F Ρ С TOP OF CAP TO TOP OF FIG. : 72.67 Rt. e.t. MAXIMUM ENPOSURE TOP OF CAP TO TOP OF WATER: 36.5' 40.0 WATER DEPTH TO TOP OF FTG. : _::-:<u>-</u>__ DEFTH Ochannel has moved dir. House 110 \$, in to Bent# 7. DISTANCE Dynamia Line Close to fall of foothing DIR. OF FLOW Pier П Bankl 3.5 6.8 4.1 BANK PROTECTION ADDED 10 9 8 7 30 9_ 8 40 7 e flow







79- I40- 51096+.

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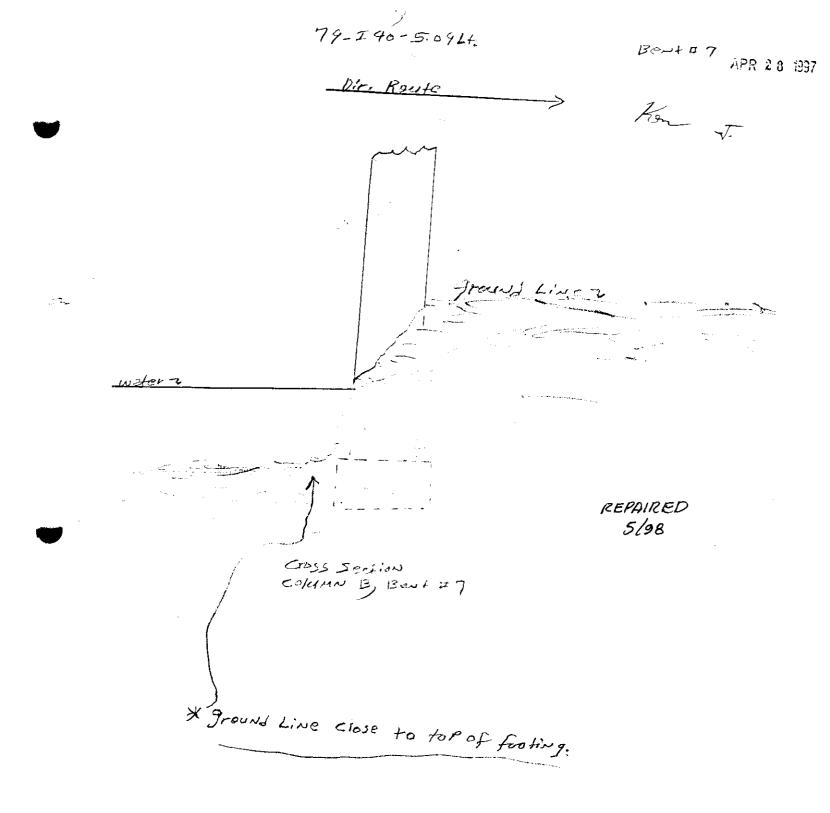




Chennel has mound dir. of Route dur 100° from its ory, Position. the chennel has now washed into Bent # 7.

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Baut # 7 was Not desinced to be located in the channel



INSPECTION TEAMS' SUMMARY APR 2 3 997

BRIDGE # <u>7.9 I40 5.09</u>

a scour check shows the drawned to be maveing toward Alade 11 2, It has moved 110 to from seignal Partien to part 1 2. 2130 the ground hive 15 does to this forthing an word DEAT. His is a Poor Bridge to Scarr @ Beit TI 657. <- REPAIRED 5/98 Kan Jandis & steel sheet Pijes up stream bos - in middle -Chance, may cause Morenant of Channel under <u>Lit-</u>

BRIDGE INSPECTION REPORT

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APR 2 8 1397

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FORM BIR 3.0 Rev. 6-9-92 DT-0069		PREVIOUS R	EPORT NO.: EPORT NO.: YES [½]	DATE:
BRIDGE NO.: 791004 ELEVEN DIGIT		BRIDGE LOC	-,	- <u>I40</u> - <u>5.09</u> RTE. L.M.
<u>79</u> - <u><i>I</i>-40</u> - <u>509</u> LOVER <u>CO.</u> <u>RTE.</u> L.M.			STRUCTURE N	AME (if namec
YEAR CONSTRUCTED CONSTRUCTED CONSTRUCTED CONSTRUCTED CONSTRUCTED CONSTRUCTED	DUNTY <u>Shel</u>	<u>bu</u> mainti	ENANCE DISTRI	CT NO. $\underline{45}$
YEAR WIDENED ESTIMATED OR []	ACTUAL []	YEAR REHAB		MATED OR ACTU] []
FEATURES				
WEARING SURFACECONCRETE FLARED WIDTHYES NAVIGATIONAL CONTROLYES MEDIAN TYPEOPEN	P[] NO G[] NO	[]		(1 =')
BRIDGE SKEW 90°			t	INCREGEORG
STRUCTURE TYPE CIE	NO. SPAN	IS <u>10</u> Main Span	1Je	INSPECTORS
STRUCTURE TYPE Approach Spa			2. <u>5;</u> Spans 3. /=	internation
MAXIMUM SPAN LENGTH	TOTAL LE	NGTH	4. 5	Celler
WIDTHS	CLEARA	NCEC	5.	
			6.	
DECK OUT-TO-OUT ROADWAY CURB-TO-CURB	MIN. VERTICA MIN. VERTICA	L OVER DECI L UNDER CL	× 7.	
SIDEWALK RT LT *APPROACH ROADWAY	MIN. LATERAL	UNDER CL.	RT	
APPR. SHOULDERRTLT			LT 8	
*DOES NOT INCLUDE SHOUL	LDERS		9	
UNDERWATER INSPECTION				·
			(< 25FT.) NBIS BRIDGE	
INSPECTION PERFORMED BY: DOT FIELD TEAM [] []	DATE		LENGTH (FT.	(THOMAS)
CONTRACT DIVERS [] E NONE REQUIRES []	DATE	``	1	(
			FRACTURE CR DETAILS: Y	
CHANGE IN STRUCTURAL CONDIT MAJOR REPIARS M				ES [] NO [] LUDE BIR 3.9
COMMENTS:	[]			
	BRIDG	E RATING	[] [] GOOD, FAIR, F	X) [] OOR CRITICAL
		SUPERVIS	6 Jerraclo INC BRIDGE IN	ISPECTOR

REV. : 07/29/93

DATE : ____ /___/_

PAGE NUMBER : OF

•

BRIDGE NUMBER : $\frac{79}{\text{COUNTY}} - \frac{1-40}{\text{ROUTE}} - \frac{5.09}{\text{LOG MILE}}$

ABUT/BENT PIER NUMBER	TOTAL HEIGTT TOP OF CAP TO BOTTOM OF FOOTING (OR GROUND LINE / DATE FOR PILES)	$\frac{(t)}{\text{FOOTING}}$ THICKNESS $= P_{0}$	$\frac{W/FTG @ H =}{TOP OF CAP TO}$ TOP OF FOOTING - Yes	EXPOSURE
A-1	(Center Line)		9_	
ρ_{-1}	1/1 3	11.0	37.24 1	

	40,3	4.0	=4.7 R =36,9
P-2	54.7	4.0	51.01 50.5 R 50.7
<u>p-3</u>	58.46	4,0	56.691 56.232 54.41
p.4	61,00	4.0	57,41 L 56.76 R 57.09 Au.1-
p-5	61 101	4,0	58.201 57.14R 51.127 43.5
P-6	51.51	4.0	48.00 L 46.03 R 47.71 42.5'
p.7	50.20	4.5	42.741 45.67R 5.75 40.0
P-8	53.1	4,5	
P-7 1	50.54	4.5	48314 1622
A-2		······	
· .			
•			

TOP OF CAP TO TOP OF WATER : 36.5 Bent# 5,6#7 RIP - RAP : YES [] NO : X @ BENT / PIER NO. : 100.00' UPSTREAM : 43.5' THRU STRUCTURE : ______ 44.5 100.00' DOWNSTREAM : 46.5

COMMENTS :



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AUG 29 1998

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION P. O. BOX 429 JACKSON, TENNESSEE 38302-0429 . الم

D.O.T. BRIDGE INSPECTION & REPAIR

August 27, 1996

MEMORANDUM

Mr. Paul Sharp, Civil Engineering Manager I TO: Mr. Bill Hazlerig, Regional Bridge Engineer FROM:

SUBJECT: Scour Information (Bridge #79 - I0040- 05.09L)

Please find enclosed Scour Information you requested on the above referenced bridge.

BWH: CW

cc: File

8/26/96 RECEIVED INSPECTION TEAMS' SUMMARY BRIDGE # 79 740 509L AUG 29 .000 D.O.T. a scour cleck of Barts 4,5, (ET 560WS Little change since Last INER -- the channel is moved into Bent # 7. No Repair has been Made Since Last INSPO- -- the scour is Still Poor. - Jon - Jerrold's

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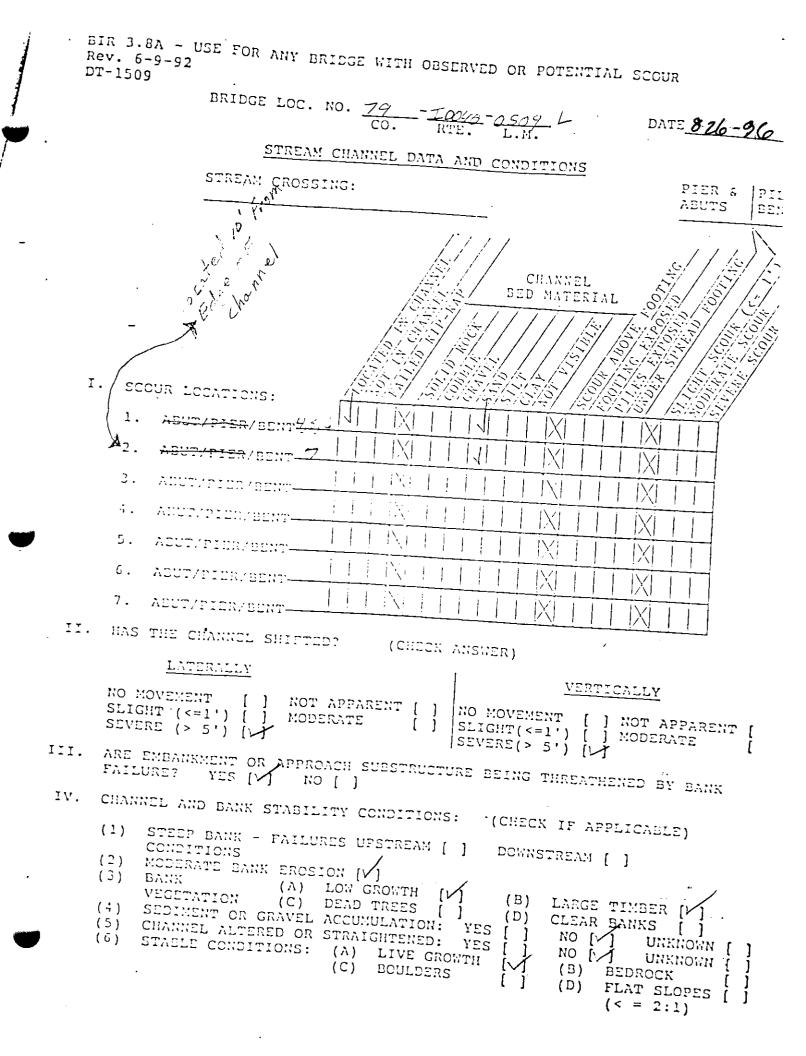
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8/26/96

BRIDGE INSPECTION REPORT

FORM BIR 3.0 A Rev. 6-9-92		FIELD REPORT N	0.: DATE:
DT-0069		PREVIOUS REPORT N	0.: DATE.
	INSPECTION & REPAIR	PLANS YES	
ELE	<u>9 1 00 4 00060</u> VEN DIGIT NUMBER	BRIDGE LOC. NO.:	$\frac{79}{\text{co.}} - \frac{740}{\text{RTE.}} - \frac{5.091}{\text{L.M.}}$
<u>19</u> - <u>I-40</u> -50	9 LOVER WOLF RIV	CT .	
··· ···· ··· ··· ··· ··· ····	11.	STRUC	TURE NAME (if named)
YEAR CONSTRUCTED (ESTIMATED OR AC [] [TUAL) COUNTY <u>She</u>]	15U MAINTENANCE I	DISTRICT NO. 45
YEAR WIDENED	IMATED OR ACTUAL	YEAR REHABILITATED	
-] []		ESTIMATED OR ACTUA
FEATURES			
WEARING SURFACE FLARED WIDTH NAVIGATIONAL CONT MEDIAN TYPE	TROLYES [] NC		(DEPTH =")
BRIDGE SKEW 90	o		TNEDROTOR
STRUCTURE TYPE	<u>IB</u> NO. SPA	NG 10	INSPECTORS
	in Span	Main Span	1. <u>Jempli</u> z 2. <u>sist</u>
STRUCTURE TYPE	NO. SPA	NS	2. <u>size</u>
App	roach Spans	Approach Spans	3. Carlin
MAXIMUM SPAN LENG	TH TOTAL LI	ENGTH	. Fisher
WIDTHS			5. 5-6 Pigention
	CLEAR		
DECK OUT-TO-OUT ROADWAY CURB-TO-CI	JRB MIN. VERTICA	AL OVER DECK	
SIDEWALK RT	LT MIN. LATERAI	L UNDER CL7	•
*APPROACH ROADWAY APPR. SHOULDER F			•
*DOES NOT INCL	,	9	•
			· ·
UNDERWATER INSPECT	TION	(< 25F	•
INSPECTION PERFORM	ED BY:	NBIS B LENGTH	RIDGE
DOT FIELD TEAM CONTRACT DIVERS	[] DATE [] DATE	<u> </u>	(FT.) (INCHES)
NONE REQUIRES		 Fractu	RE CRITICAL
CHANGE IN STRUCTUR MAJOR	AL CONDITION YES [REPIARS MADE YES [DETAILS	S: YES [] NO [] , INCLUDE BIR 3.9
<u>COMMENTS:</u> <u>5Cause Chroke</u>	· · · · · · · · · · · · · · · · · · ·		
	Graff BRIDO	GOOD F] [/] [] IR POOR CRITICAL
		Laborath to	a all
		SUPERVISING BRID	GE INSPECTOR



BIR 3.88 - USE FOR ANY BRIDGE WITH OBSERVED OR POTENTIAL SCOUR

BRIDGE LOC. NO.:

•

STREAM CHANNEL DATA AND CONDITIONS (CONIT)

Waterway adequacy and debris characterictics: (check if applicable ν. (1) Bridge deck elevation: (a) level with approach roadway
(b) higher than approach roadgay
(c) Toporto the set of the se (c) roadway approach >=2' above natural ground line . (2)(3) Large scour (blowhole) under bridge [] (4) Indications that flood waters overtop bridge: NO [V] YES [] ->CCCASIONALLY [] FRECUENTLY [] UNKNOW [] (5) Debris characteristics: (a) depris present: YES [M NO [] (b) debris likely to accumulate: YES [V] (c) dead trees uprocedm: [] or downstream [] Wi. Condition of rip-raph G 🕑 P C Dot. 8 tailed: ____ N/A: [] Underwater diver inspection recommonded? VES [1] . NO [] · · · · · Overall condition of channel? G 💬 P C Item 61 - Code values 0 thru 9 according to the recording and IX. courne guide currently in effect: 3 Χ. Comments: Bent 556 have harge 4,5, 4 hacatel in channel Bent Thorated an Eday of thunker BEat * * * * SPECIAL INSPECTION DATA (FOR REASONS OTHER THAN FC OR SCOUR) I. Does this bridge need a special inspection? YES [] NO [] II. Reason for special inspection:

REV. : 07/29/93

DATE : <u>8</u> 1<u>26</u> 1<u>%</u>

PAGE NUMBER : ____ OF

BRIDGE NUMBER : <u>79</u> - <u>I-40</u> - <u>5,09</u> L

ABUT/BENT PIER NUMBER	TOTAL HEIGUT TOP OF CAP TO BOTTOM OF FOOTING (OR GROUND LINE / DATE FOR PILES)	$\frac{(t)}{\text{FOOTING}}$ THICKNESS $\frac{1}{2}$	TOP OF (TOP OF)	<u>@ H =</u> CAP TO FOOTING	EXPOSURE R4.~1 Bent
A-1	(Center Line)			9	
P-1	- 40,9	4.0	37.2 L 37.7 R	36, a	
p. j.	54.7	4.0	51.0 L 50 5 R	50.7	*
P-3	58.46	4,0	56.69 L 56.23 R		
p.4	61.09	4.0	57,41 L 56.74 R		13 1.
p-5	61.67	4.0	158,20L	57.67	_
P.6	51.51	41.17	57.14R 48.00 L 46.03 R	i i	45.2
P.6 P.7 P.7	50.20	4.5	48.74L 48.74L	45.70	<u> 7.2.2</u>
P-8	53.11	45	50.392		
P-7 -	50.82	4.5	44.83R 48312 44.34R	46.32	
17-2			<u></u>	4 0.02	
×.					

TOP OF CAP TO TOP OF WATER : $\underline{43.6'}$ 100.00' UPSTREAM : $\underline{46.6'}$ THRU STRUCTURE : $\underline{46.2'}$ 100.00' DOWNSTREAM : $\underline{45.5'}$

• '

COMMENTS :

DATE 8-26-96

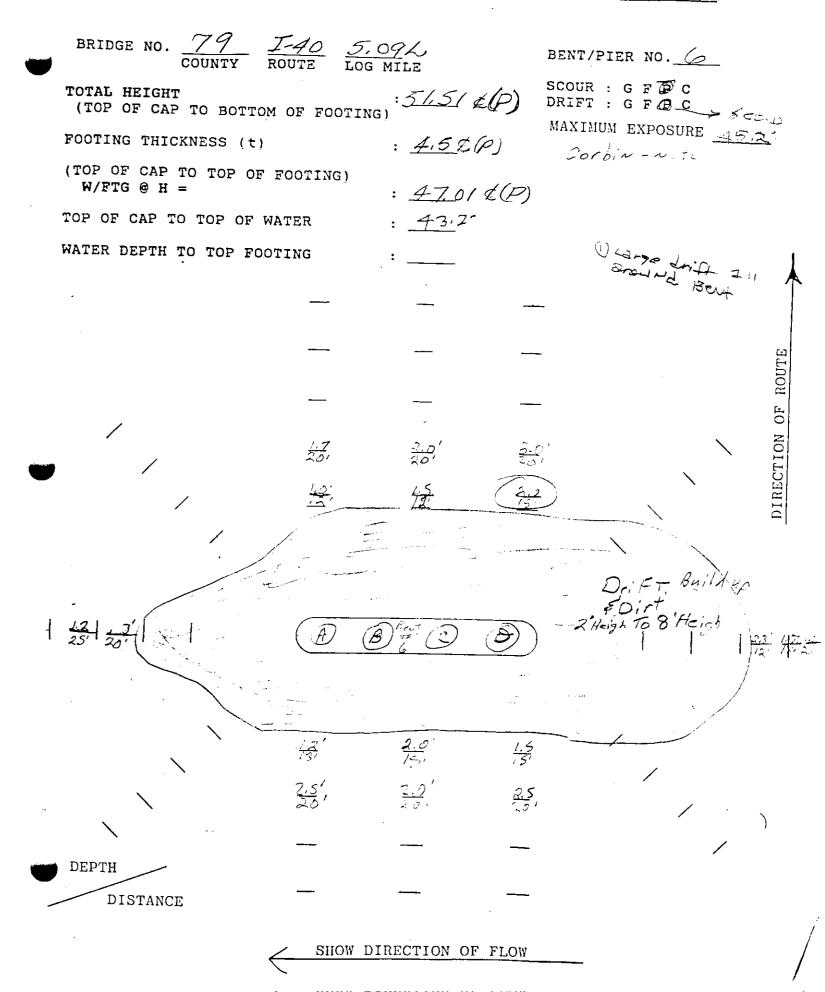
BRIDGE NO. 79 COUNT	ROUTE	LOG MILE		ENT/PIER NO.	
TOTAL HEIGHT (TOP OF CAP TO BO	TTOM OF FOOT	: <u>61.00</u>	てまた) s D	COUR : G 🗇 P C RIFT : 🗇 F P C	
FOOTING THICKNESS	(t)	: 4.0	t(P)	AXIMUM EXPOSUR	E <u>43.6</u>
(TOP OF CAP TO TOP W/FTG @ H =	OF FOOTING)		29 £P)	Corbin	
TOP OF CAP TO TOP	OF WATER	: 43.0	-		
WATER DEPTH TO TOP	FOOTING	:			
					,
					ΞL
					OF ROUTE
ион , 4 тэ	er Si Deep	/ -		\	DIRECTION
				\```	
					1
	·	_			
			_	/	
DEPTH	·				
DISTANCE	-				
	SHOW	DIRECTION C	FFLOW	·	

REV. 07-01-91

DATE 8-26-96

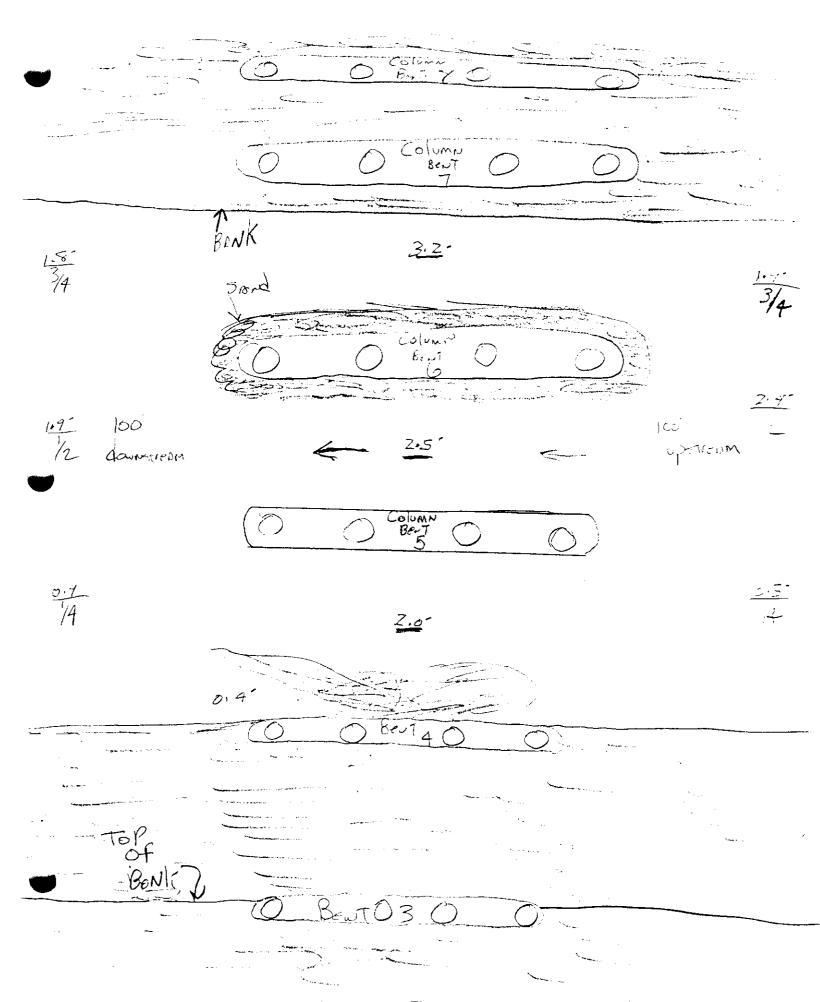
BRIDGE NO. <u>79</u> <u>I-40</u> <u>5.09</u> COUNTY ROUTE LOG MILE BENT/PIER NO. 5 SCOUR : G F C C SRED DRIFT : G F C SRED TOTAL HEIGHT : <u>61.67 ¢(P)</u> (TOP OF CAP TO BOTTOM OF FOOTING) MAXIMUM EXPOSURE <u>45.0</u> Corbin-noto Sisk - Rod Fisher-Boat FOOTING THICKNESS (t) : <u>4.0 2(P)</u> (TOP OF CAP TO TOP OF FOOTING) : 57.67 g(P) W/FTG @ H =TOP OF CAP TO TOP OF WATER : 43.0' () Large drift 2round Bout WATER DEPTH TO TOP FOOTING ROUTE <u>-5</u> 20 72, 72, DIRECTION OF LD. μQ 20 10. 15 **c**2, 2.0 10 1.0' DEPTH DISTANCE SHOW DIRECTION OF FLOW

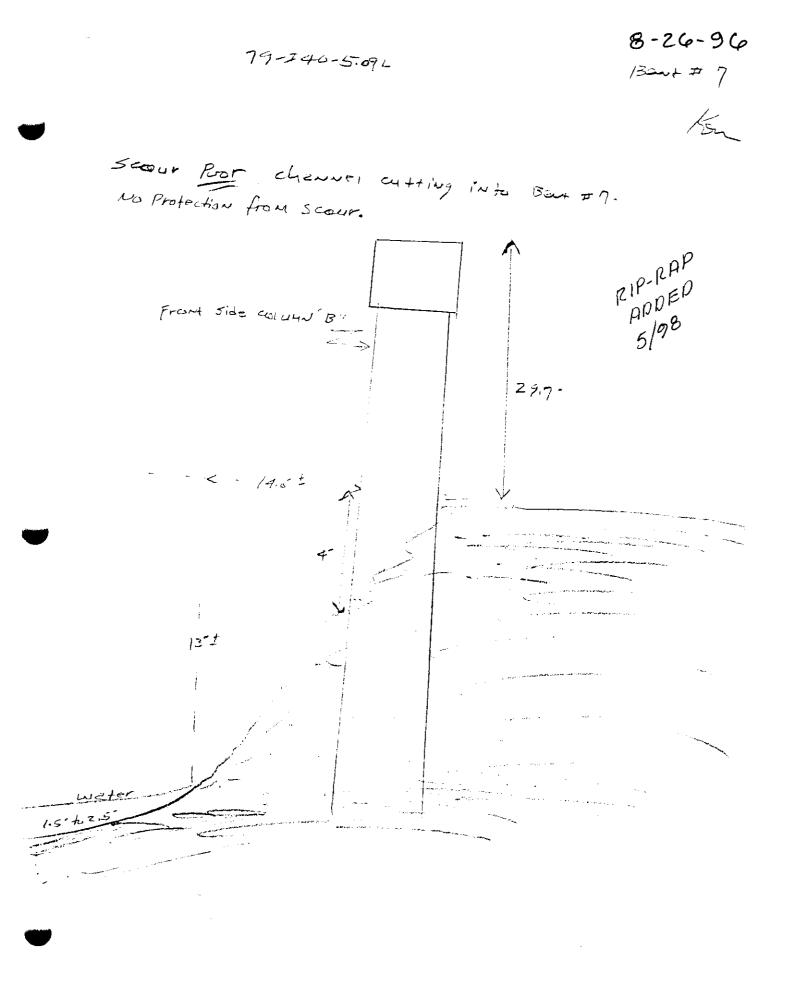
DATE 8-26-96



14 I 46 5.094

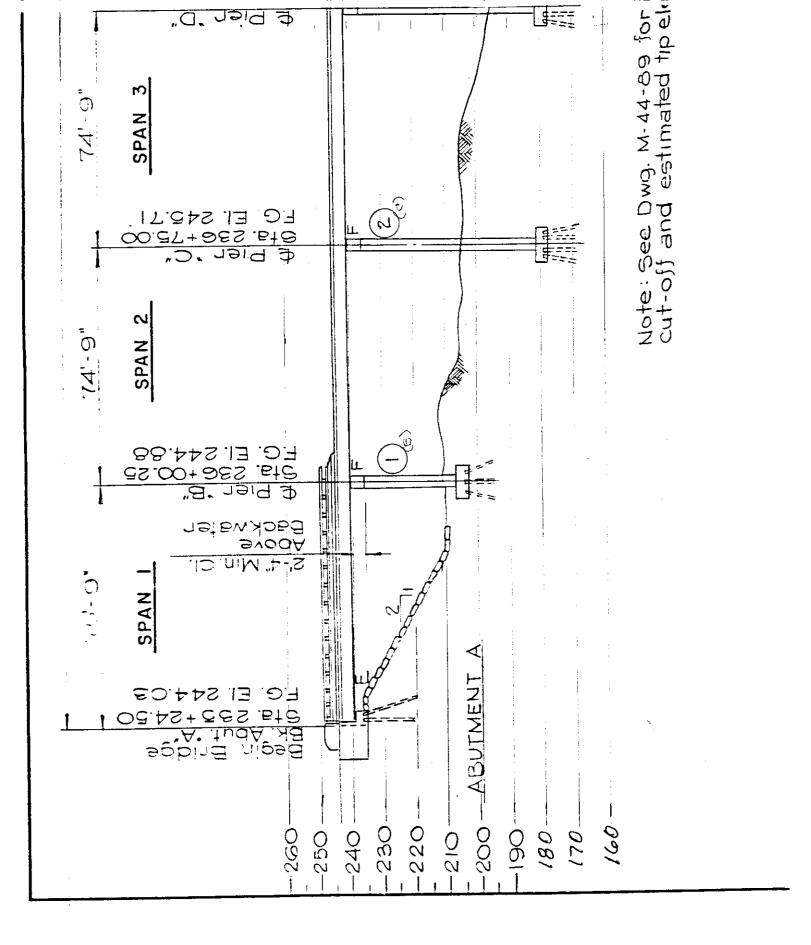
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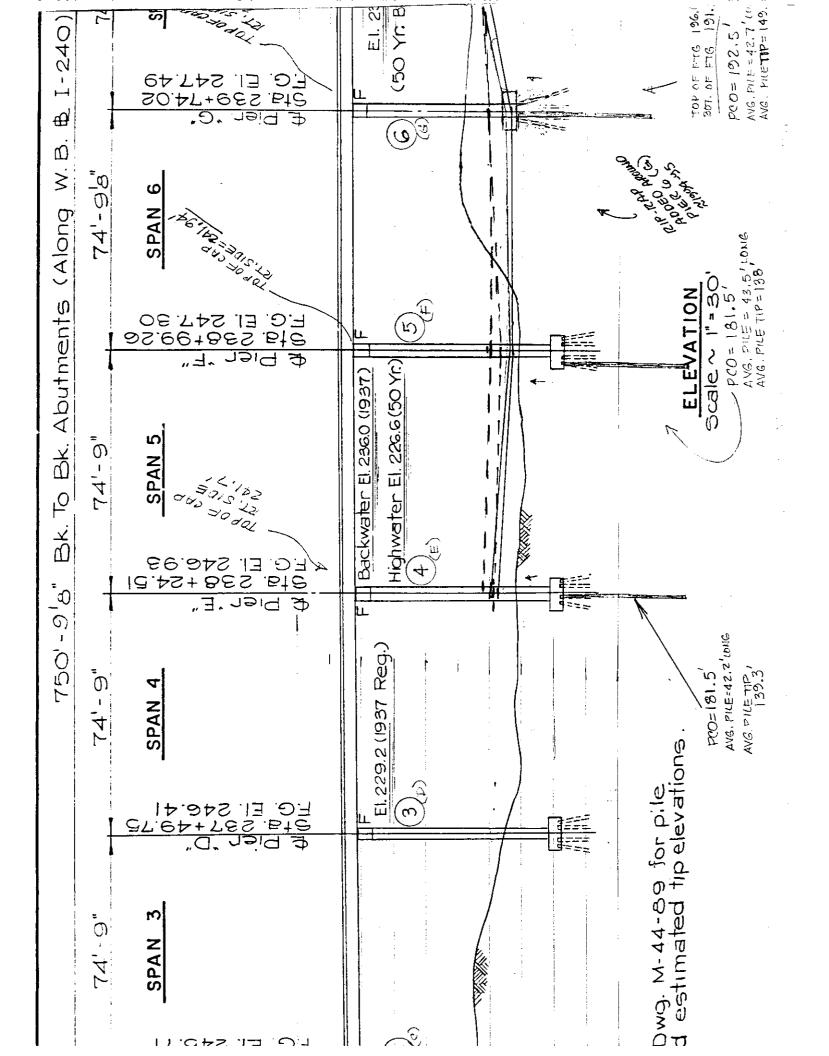
BRIEGE NO. 79 190 5.076 DATE 8/26/96 TOTAL HEIGHT: (TOP OF CAP TO BOTTOM OF FTG.) 50.20 EP BENT/PIER NO. 7 FCOTING THICKNESS (t): 2 C 250 SCOUR: G DRIFT: 👩 E. <u>4.5° EP</u> Ξ TOP OF CAP TO TOP OF FIG. : 45.70 t(P) MAXIMUM EMPOSURE 3341 TOP OF CAP TO TOP OF WATER: 43.0-MATER DEPTH TO TOP OF FTS.: 112201 DISTANT DIR. OF FLOW D CHANNE Moveling. North into Bert IT7 10 10 10 0.00 0.00 0100 13 13 13 2.1 48-20 20

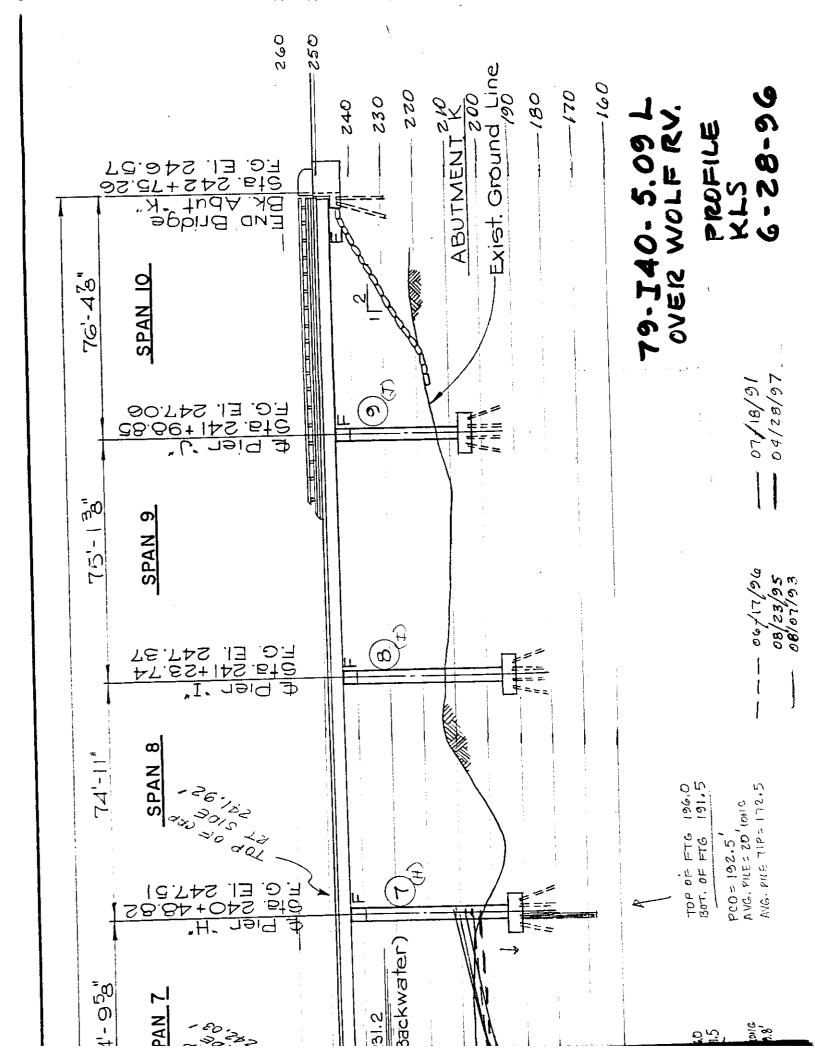
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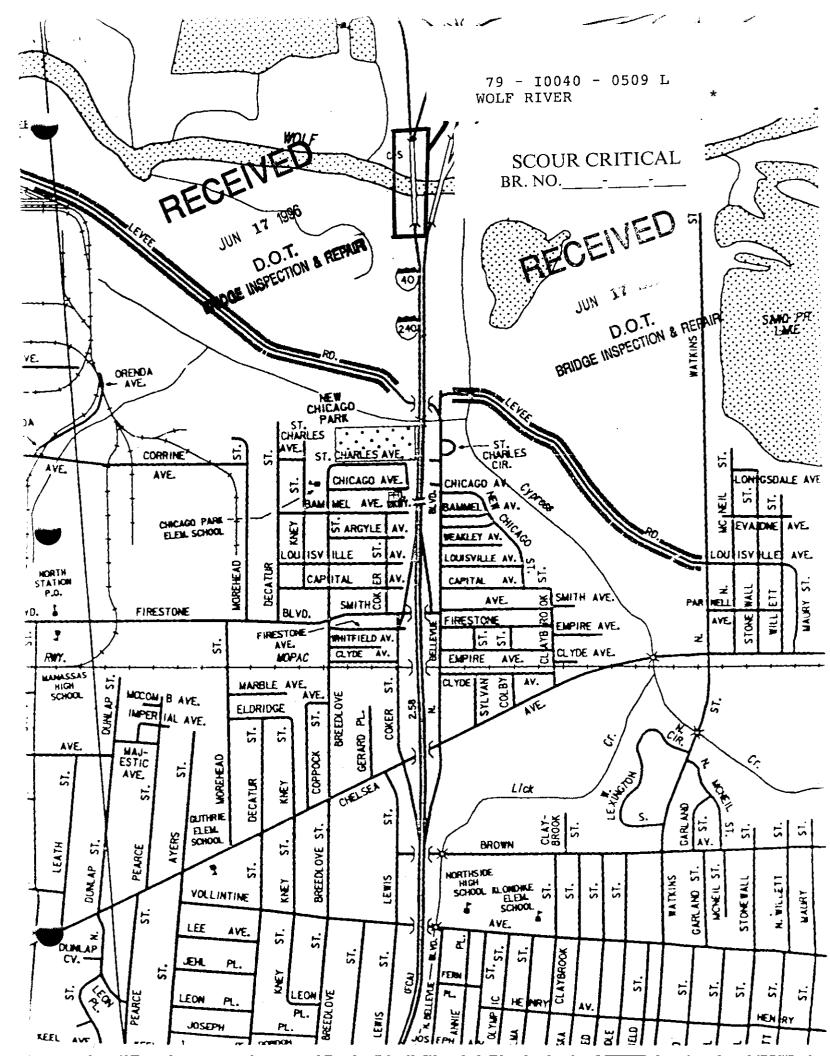


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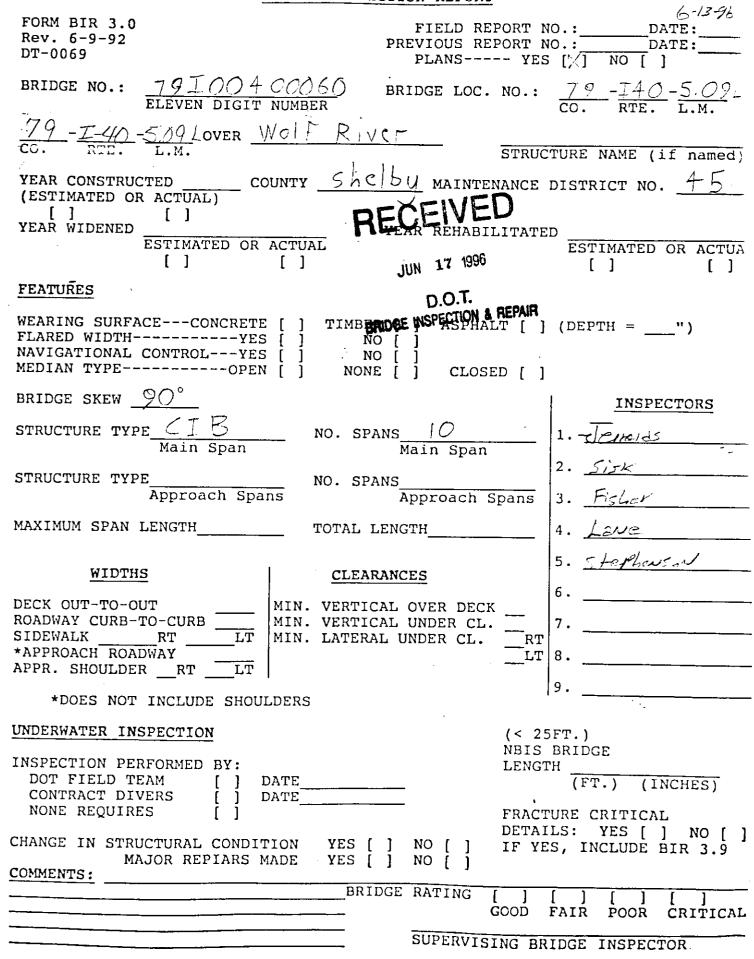






13.3.0 -2. 6-8-92 INSPECTION TEAMS' SUMMARY - Sué BRIDGE # 79 740 5.09L PREDUZ COM scalt check of Bents 7-7 Made durning Floud stage of worf Rivers shows very hittle 3. . Change in the Basic Channel ground hive Verticaly. the channel Banks are Hara to define - Lue to high water 20-1 Hav Clase to being the says Le Scour LAS cheded in Hug. of 950 time the 24 ch Chaunel 2rth 140-(2) From Orginal Position & MOVING into Bart #7 this is a Scour crifical Bridge with the Scour Reted Paar this pate (6-13-86) nor MUN D.0. BENDOE INSPECTION &

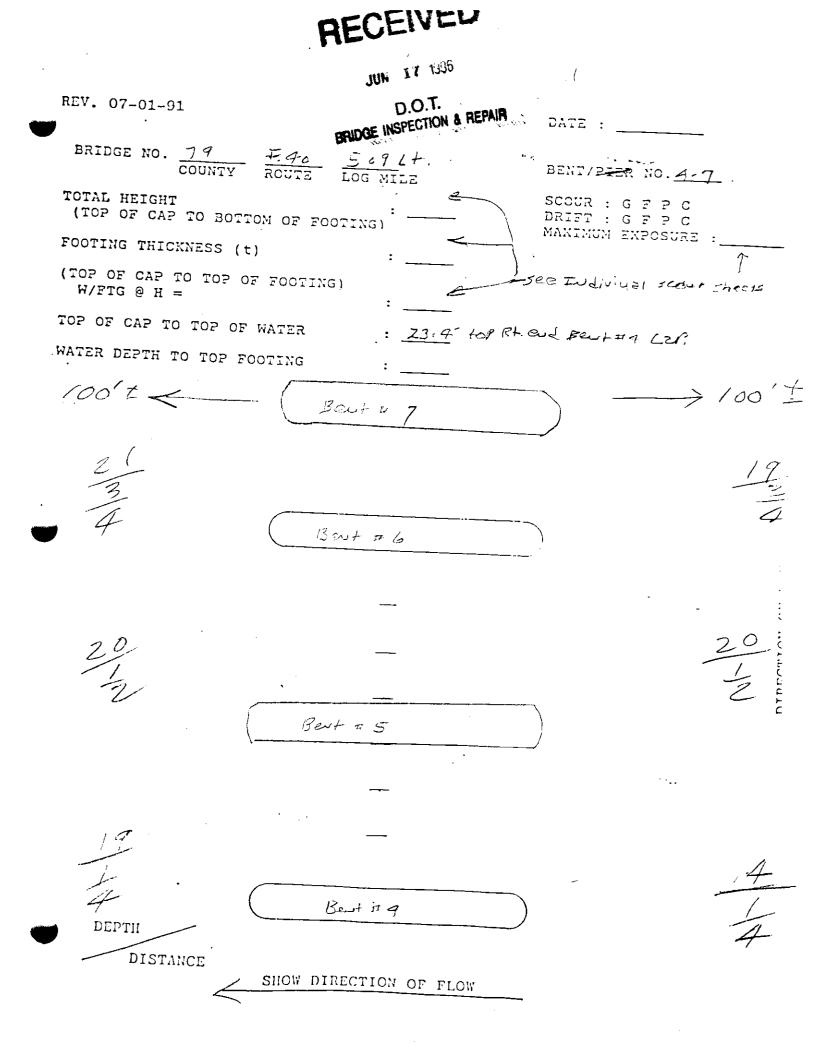
BRIDGE INSPECTION REPORT



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REV. : 07/29/93	JÜN	17 1996	DATE :	_ / /
		D.O.T. PECTION & REPAIR	PAGE NUMBER	
	BRIDGE NUMBE		$\frac{740}{\text{ROUTE}} = \frac{5.0920}{\text{LOG MILE}}$	
ABUT/BENT TOP OF PIER BOTTOM NUMBER (CT CT	L HEIGHT CAP TO OF FOOTING COULD LINE / FOR FILES)	(t) FCOTING THICKNESS	$\frac{W/FTG \ \theta \ H}{TOP \ OF \ CAP \ TO}$ TOP OF FOOTING	EXPOSURE
Abut 1				
Bent 1				
2				
<u>- 4 61.09</u>		4.6-	56.76" Rt and	42,40-
5 1/1.67		4.0-	1 = 7.19- Rt. end	44.86-
	<u></u>	4.0	46.03 Rt. end	41.80-
7 50:20		4.5	42.67 Rf. aud	35.60
	<u></u>			
17/2		 		
Abatz		1	1	
	<u> </u>	 		
i		 		
TOP OF CAR TO TOP O		17t. and 13		
TOP OF CAP TO TOP O 100.00' UPSTREAM :	42.4	·4- 1	RIP - 'RAP : YES [3 BENT / PIER NO.	:] 1:0 : []
THRU STRUCTURE :	47.4	-		
100.00' DOWNSTREAM			19:2-Rap Not UP. High water.	- ducto
COMMENTS :			High wither.	
				•
•		2 : . 4		



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• REV. 07-01-91

DATE

REV. 07-01-91		~	I	DATE	
		JUN 17 1996			11-1
BRIDGE NO 79	T-10 E	D.O.T.			1-1
BRIDGE NO. $\frac{77}{\text{county}}$	ROUTE LOC			T/PIER NO. 🚄	
FOTAL HEIGHT		: 61.09 E	(P) SCO	UR:GFPC FT:GFPC	
(TOP OF CAP TO BOTT		(G)	MAX	IMUM EXPOSURE	4Z.4
OOTING THICKNESS (1	:)	: 4.0 P.C			
TOP OF CAP TO TOP C W/FTG @ H =	F FOOTING)	: <u>57.0</u> 9 x	(P)	1 50 Fr	9.50 = 2614 reting eres
COP OF CAP TO TOP OF	WATER	: <u>73.4</u>	z 9.9 5.5		
NATER DEPTH TO TOP F	OOTING	: 39.5	5.5	23.4	
	_	Z <u>I</u> Mid		7.36	
		mid		المبين المبين الم المبين المبين المبين	
	20	21	21		
	2 <u>0</u> 20	<u>21</u> 20	21 20		
/	20	$\frac{20}{10}$			
	10	70	19		
/	19	17	18		
,	1	1	1	<.	-
				17 16	18
$\frac{16}{20}$ $\frac{15}{10}$ $\frac{15}{1}$				$\frac{17}{1} + \frac{16}{10}$	20
:					_
	15	< 3	16	/	
<u>\</u>	1	1 1 16 10	<u>/6</u> 	/	
````	<u>16</u> 10	16	15		
	10	10	15/0 15/2		• •
$\mathbf{X}$	15 20	14-20	15		/
DEPTH	20	69	20		
DISTANCE					

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REV. 07-01-91		JUN 17 199	<b>6</b> DA	VTE	
BRIDGE NO. 79 COUNTY R	<u> 7-40</u> <u>-</u> OUTE LOO	5 MILE			
TOTAL HEIGHT (TOP OF CAP TO BOTTOM	OF FOOTIN	ig.) : <u>101.67</u> 2		R : G F P C T : G F P C MUM EXPOSURE	. م
FOOTING THICKNESS (t)		: dec Rol	ann 1	MOM EXPOSURE	
(TOP OF CAP TO TOP OF W/FTG @ H =	FOOTING)	: <u>57.6</u> 7	q(P)		
TOP OF CAP TO TOP OF W	ATER	: 23,8	30.2		
WATER DEPTH TO TOP FOO	TING	: 33 8	6.5		
• .		2 <u>3</u> M:d		23-8	
				5.45 	ROUTE
,	<u>21</u> 20	23 20	2 <u>2</u> 20		OF
· · ·	2 <u>2</u> 10	24	22 10 21	$\mathbf{X}$	UDITECTION
		10	G	$\mathbf{X}$	REC
	2 <u> </u> 	20 1			2;
$ \frac{19}{20} \frac{19}{10} \frac{19}{10}$				$\frac{2}{1}$ $\frac{20}{10}$ $\frac{22}{20}$	
	19	19	22		
$\mathbf{X}$	1	1	22	1	
$\mathbf{X}$	1 <u>9</u> 1 1 <u>9</u> 10	21/10	2.2	/	-,
$\mathbf{i}$	_			/	
DEPTH	ZO	20	20		
			<del></del> -		

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REV. 07-01-91

JUN 17 1996

		<b>6 6 6 6 6 6 6 6 6 6</b>			
BRIDGE NO. $\frac{79}{\text{COUNTY}}$	<u>1-40</u> <u>5</u> , oute log	D.C. D.C. D.C. D.C. D.C. D.C. D.C. D.C.	D.T. BENT	C/PÍER NO. 6	
TOTAL HEIGHT		:51,51 ¢	(P) SCOU DRIE	JR : G F P C TT : G F P C	
(TOP OF CAP TO BOTTOM	OF FOOTIN		MAX	IMUM EXPOSURE <u>41.</u>	F'
FOOTING THICKNESS (t)		: <u>4.5</u> EA	- J		
(TOP OF CAP TO TOP OF W/FTG @ H =	FOOTING)	: 47.01	t(P)	7 # 30.1	
TOP OF CAP TO TOP OF W	ATER	: 23.8'	30.3	-	
WATER DEPTH TO TOP FOO	TING	: <u>Z 3 2</u>	30 · 3 6 · 6 2) · 8		
		21.0 mid	<del></del>		,
		mid		23.4	
	—	—		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	UTE
	20	21	20		OF ROUTE
,	20	<u>Z1</u> Z0			
	12	1 <u>8</u> 10 16	21	<u>\</u>	TIOI
	18			$\mathbf{X}$	DIRECTION
	$\left( \frac{r}{r} \right)$	<u>/6</u> /	<u>15</u> 	N.	1.1
				$\mathbf{X}$	
- 1/2 1/2 . 10				15 18 18	
$\frac{1}{2} \frac{1}{1} \frac{1}$				$\frac{15}{1} + \frac{18}{10} + \frac{18}{20}$	
$\mathbf{X}$	18	17	17	/	
$\mathbf{X}$	18 1 19 10	<u>17</u> 1 20 70		/	
$\mathbf{X}$	10	<u>20</u> 70	$\frac{2}{10}$	/	<b>`</b> .
$\mathbf{N}$	<u>21</u> 20	23	19	/	I
DEPTH	20	ZO	17 20 70 19 20	,	
DISTANCE					
·	SHOW	DIRECTION OF	FLOW		

### REVENUEL

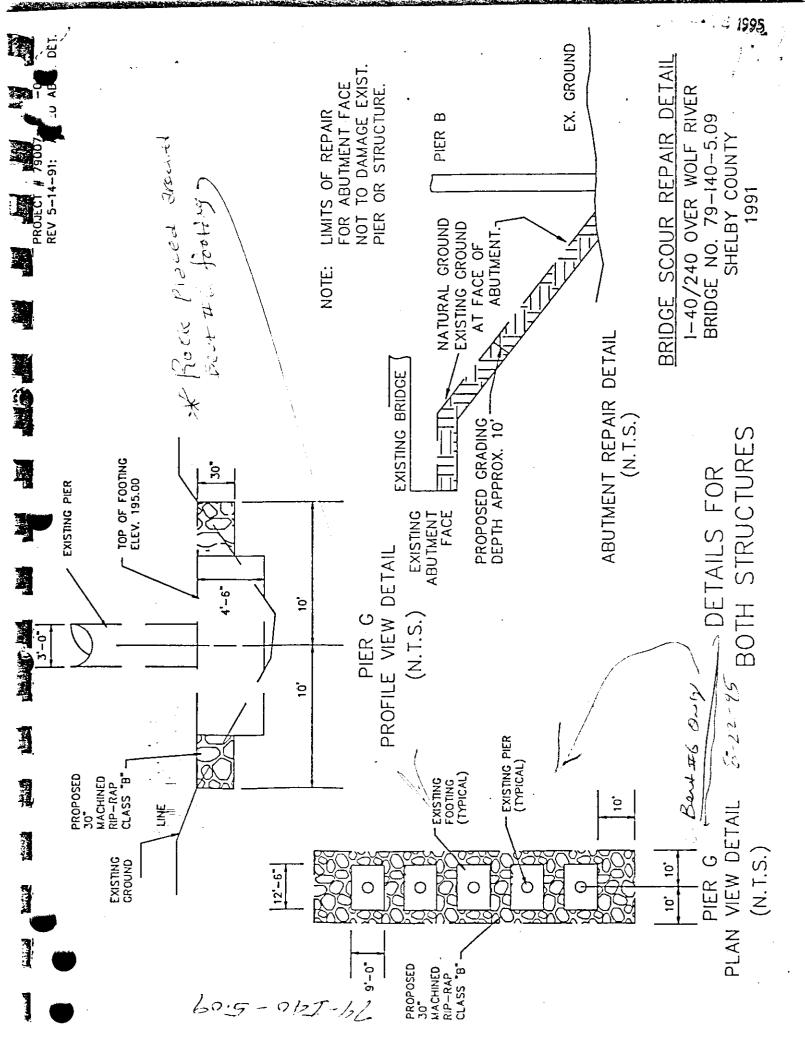
### JUN 17 1996

BRIDGE NO. 79D.O.T. I-40 -5.~7 BRIDGE INSPECTION & 50.20 BENT/ PER NO. TOTAL HEIGHT: (TOP OF CAP TO BOTTOM OF FTG. ) 5 C G F SCOUR: FOOTING THICKNESS (t): DRIFT: G F Ъ С 42.67 Rt AN MAXIMUM EXPOSURE356 TOP OF CAP TO TOP OF FTG. : 23.60 TOP OF CAP TO TOP OF WATER: 30.1 19,07 6-5 WATER DEPTH TO TOP OF FTG.: 23.6 DEPTH DISTANCE DIR, OF FLOW マゴヒ 12 B. Ond 7.20 720 6,0 <u>6,0</u> 70 7.0 7,0 8 <u>_8__</u>  $\frac{6}{20} \frac{7}{10} \frac{6}{1}$ 12 16 16 _7_ _1_ _16_ _0 5'T pot 15. Bank 13 20 21 20 <u>20</u> 20

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REV. : 07/29/93

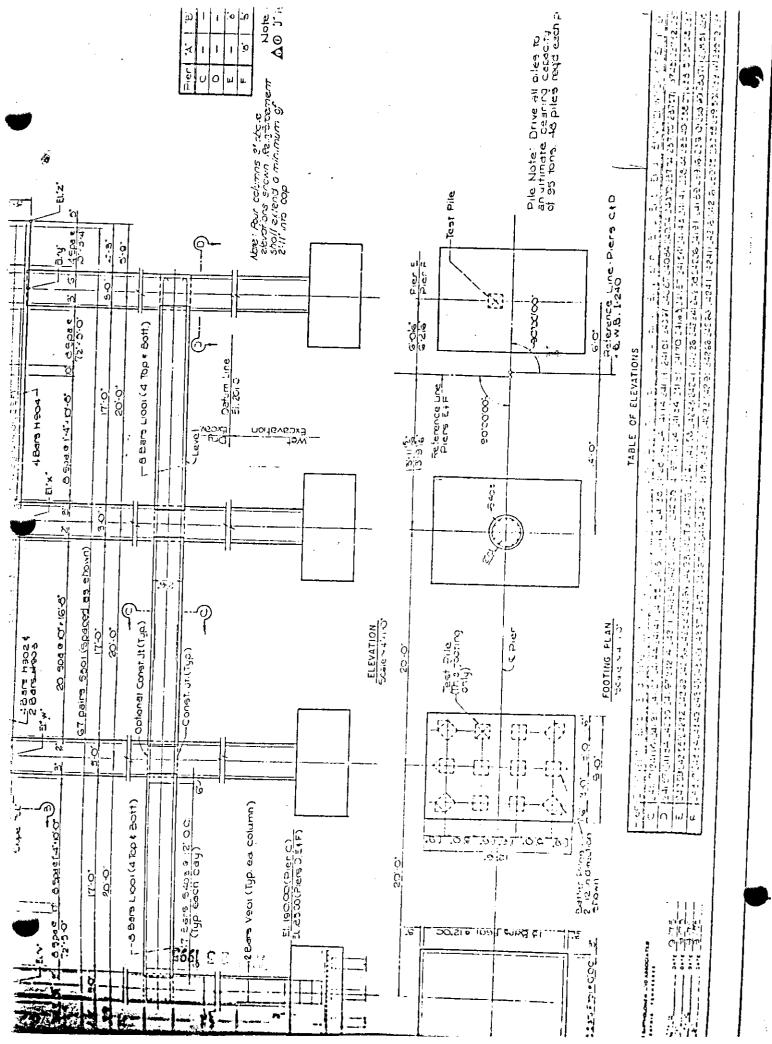
3 1995) e DATE : ____ /___ /__

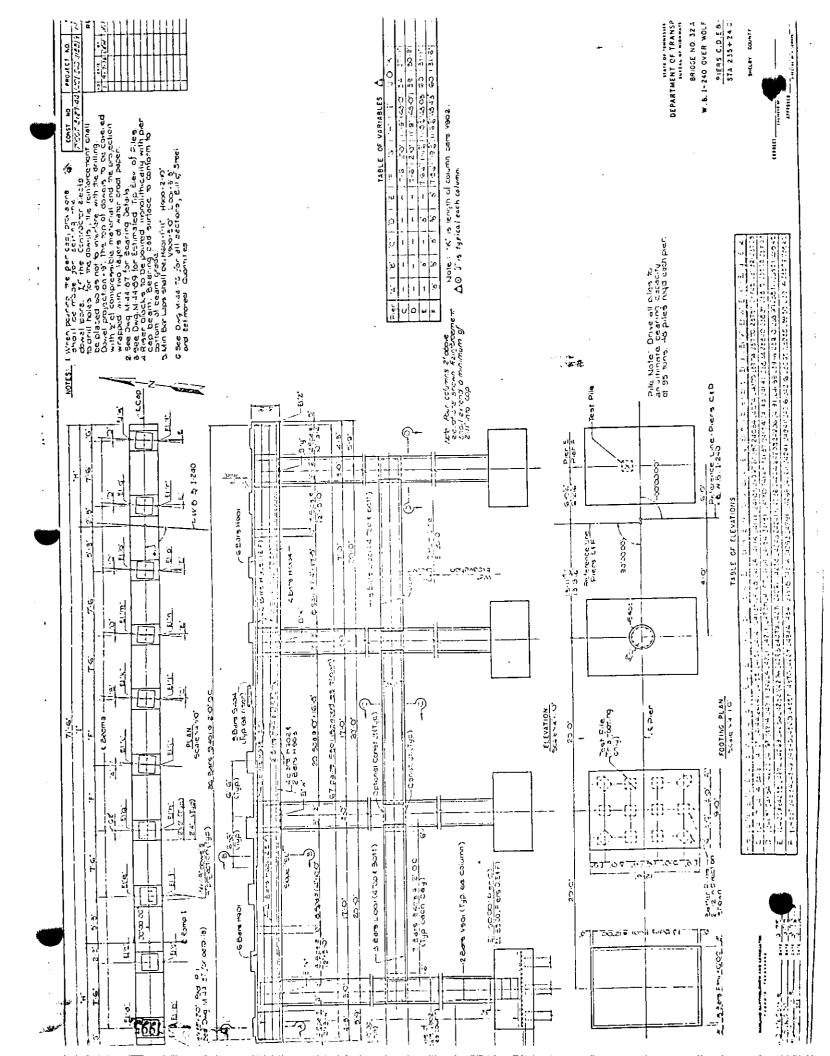
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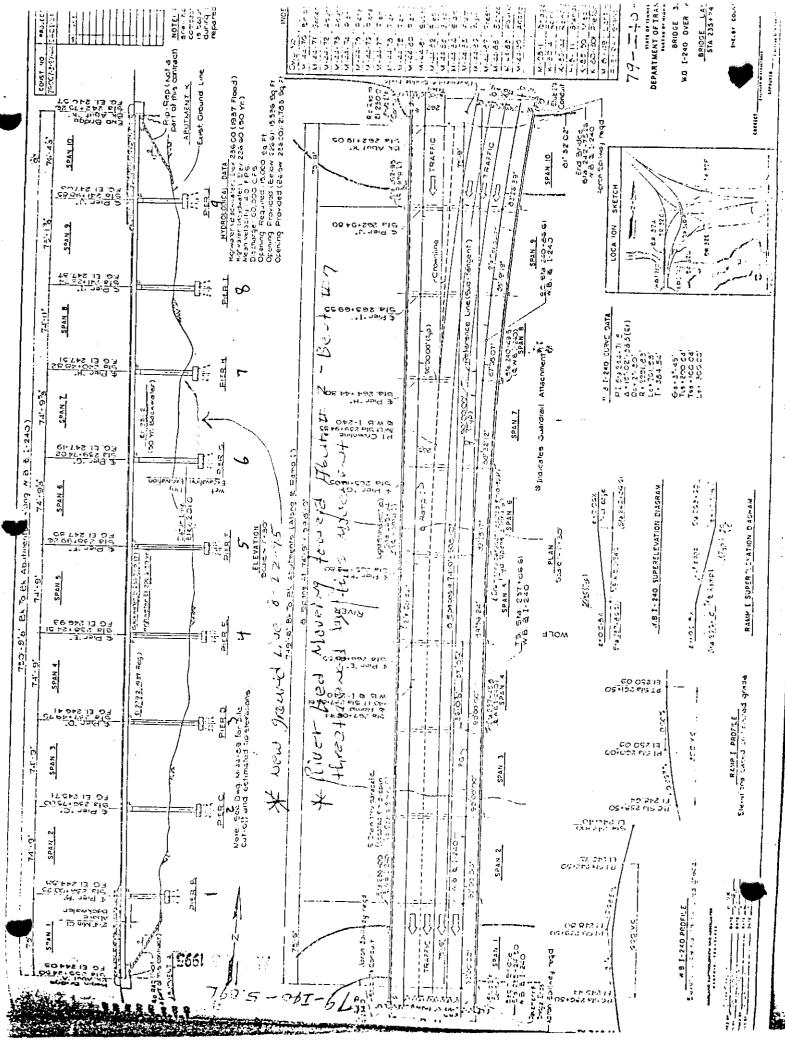
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BRIDGE NUMBER : 79 - I - 40 - 5091

ABUT/BEN . PIER	TOTAL HEIGTT NT TOP OF CAP TO BOTTOM OF FOOTING	COUNTY (t) FOOTING THICKNESS	ROUTE L <u>W/FTG</u> TOP OF C TOP OF F	AP TO	EXPO.
NUMBER	( OR GROUND LINE / DATE FOR PILES )	Plans		ooring	الميتر.
<u>A-1</u>	(Center Line)			9_	3.0
<u></u>	- 40,9	4.0	37.2 Le 36.7 R	76.9	=7. 9
<u>p-2</u>	54.7	4.0	51.0 L 56.5 P	50.7	32.
<u> </u>	58.46	4,0	56.69 L 56.22 R		77.
p.4	61.09	4.0	57191 6 56.7% R	57.09	
p-5	61.67	4.0	58.304		45.7
- P-6	51.51	4.0	57 14 P 48.00 L 416.03 K		40.21
p. 7	50.20	4.5	48.741 45.157 50.20-	67.75	i
P-8	53.11	4,5	50.20 L 1/4,52 L 453 4		33.5
p-9	50,83	4.5	4534		26.9
AZ					
<u>~.</u>					
•	1. P. 1.				







(TOP BOTT $ \frac{Abut 1}{3 Pier # 1} $ $ \frac{Pier # 2}{9 Pier # 3} $ $ = Pier # 4 $ $ = Pier # 5 $ $ \frac{Fier # 6}{1 Pier # 7} $ $ \frac{1 Pier # 8 - 1}{1 Pier # 8 - 1} $	CAL HEIGHT OF CAP TO TOM OF FOOTING) $40.9 \pm (P)$ $54.7 \pm (P)$ $58.46 \pm (P)$ $61.67 \pm (P)$ $51.51 \pm (P)$ $50.20 \pm (P)$ $53.11 \pm (P)$	$\begin{array}{c c} Piling \\ 4.0(P) \\ 4.5(P) \\ 4.5(P) \\ 0) \\ 0) \\ 0) \\ 0) \\ 0) \\ 0) \\ 0) \\ 0$	$\begin{array}{c} W/FTG @\\ (TOP OF \\ TOP OF \\ TOP OF \\ F\\ \hline \\ 57.2 \ ct, \\ 56.7 \ Rt. \\ \hline \\ 57.0 \ ct, \\ 57.0 \ ct, \\ \hline \\ 57.0 \ ct, \\ \hline \\ 56.23 \ Rt. \\ \hline \\ 57.41 \ ct, \\ \hline \\ $	DATE H = CAF TO OOTING) () () () () () () () () () (	EXPOSURE
(TOP BOTT Abut 1 3 Pier # 1 = 4 3 Pier # 1 = 4 Pier # 2 = 5 Pier # 3 = 5 E Pier # 4 = 6 E Pier # 6 = 4 H Pier # 7 = 1 1 Pier # 9 = 5 3 Pier # 9 = 5	FOR CAP TO TOM OF FOOTING $40, 9 \notin (P)$ $54, 7 \notin (P)$ $58.46 \notin (P)$ 61.09 # (P) 61.67 # (P) 51.51 # (P) 50.20 # (P) 53.11 # (P)	FOOTING THICKNESS $P_{i} _{Ing}$ 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.0(P) 4.5(P) 4.5(P)	$(TOP OF TOP OF F TOP OF F 37.2 \ 4t,  36.7 \ Rt.  56.6 \ 9 \ 4t,  56.6 \ 9 \ 4t,  56.6 \ 9 \ 4t,  57.41 \ 4t,  57.41 \ 4t,  57.14 \ Rt.  148.00 \ 4t,  148.00 \ 4t,  148.00 \ 4t,  57.14 \ Rt.  148.00 \ 4t,  50.3 \ 9 \ 4t, \\ 50.3 \ 9 \ 4t, \ 50.3 \ 8t, \$	CAR TO OOTING)	
$\frac{P_{ier} # 2}{P_{ier} # 2}$ $= \frac{P_{ier} # 4}{P_{ier} # 4}$ $= \frac{P_{ier} # 4}{P_{ier} # 6}$ $= \frac{P_{ier} # 6}{P_{ier} # 7}$ $= \frac{P_{ier} # 7}{P_{ier} # 7}$	54,7 ¢(P) 58.46 ¢(P 61.09 ¢(P 61.67 ¢(P 51.51 ¢(P 50.20 ¢(P 53.11 ¢(P	$\begin{array}{c c} 4.0(P) \\ 4.5(P) \end{array}$	57.0 c+. $57.0 c+.$ $56.69c+.$ $56.23R+.$ $57.41 c+.$ $57.41 c+.$ $57.41 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $55.38+.$ $50.394+.$ $50.394+.$ $50.394+.$ $50.394+.$	50,7(P) 54.44(P) 57.09(P) 57.67(P) 47.01(P) 45.70(P) 49,61(P)	
$\frac{P_{ier} # 2}{P_{ier} # 2}$ $= \frac{P_{ier} # 4}{P_{ier} # 4}$ $= \frac{P_{ier} # 4}{P_{ier} # 6}$ $H = \frac{P_{ier} # 7}{P_{ier} # 7}$ $= \frac{1}{P_{ier} # 8}$	54,7 ¢(P) 58.46 ¢(P 61.09 ¢(P 61.67 ¢(P 51.51 ¢(P 50.20 ¢(P 53.11 ¢(P	$\begin{array}{c c} 4.0(P) \\ 4.5(P) \end{array}$	57.0 c+. $57.0 c+.$ $56.69c+.$ $56.23R+.$ $57.41 c+.$ $57.41 c+.$ $57.41 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $48.00 c+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $57.14R+.$ $55.38+.$ $50.394+.$ $50.394+.$ $50.394+.$ $50.394+.$	50,7(P) 54.44(P) 57.09(P) 57.67(P) 47.01(P) 45.70(P) 49,61(P)	
$\frac{P_{ier}^{+} \cdot 3}{= P_{ier}^{+} \cdot 4} = \frac{P_{ier}^{+} \cdot 4}{= \frac{P_{ier}^{+} \cdot 5}{= \frac{P_{ier}^{+} \cdot 5}{= \frac{P_{ier}^{+} \cdot 5}{= \frac{P_{ier}^{+} \cdot 7}{= \frac{P_{ier}$	58.46 \$(P 61.09 \$(P 61.67 \$(P 51.51 \$(P 50.20 \$(P 53.11 \$(P	$\begin{array}{c} P \\ P $	56.692t. $56.23Rt.$ $57.412t.$ $57.412t.$ $53.202t.$ $57.14Rt.$ $48.002t.$ $48.002t.$ $48.002t.$ $48.002t.$ $48.002t.$ $57.14Rt.$ $48.002t.$ $57.14Rt.$	54.44(P) 57.67(P) 57.67(P) 47.01(P) 45.70(P) 49.61(P)	
$   \frac{P_{ier} + 4}{P_{ier} + 5} = \frac{P_{ier} + 5}{P_{ier} + 6} = \frac{P_{ier} + 6}{P_{ier} + 7} = \frac{P_{ier} + 7}{P_{ier} + 8} = \frac{1}{5} \frac{P_{ier} + 8}{P_{ier} + 9} = \frac{1}{5} \frac{P_{ier} + 9}{P_{ier} + 9} = \frac{1}{5} \frac{P_{ier} + 9$	6 1.09 \$(P 6 1.67 \$(P 5 1.51 \$(P 50.20 \$(P 53.11 \$(P	$\begin{array}{c} 4.0(F) \\ 4.0(F) \\ 4.0(F) \\ 4.5(F) \\ 4.5(F) \\ 4.5(F) \\ 4.5(F) \end{array}$	57.41 ct; 57.41 ct; 53.20 ct; 57.14 Rt; 48.00 ct; 46.03 Rt; 46.03 Rt; 43.74 ct; 142.67 Rt; 50.39 ct; 50.39 ct; 46.83 ft;	57.69(P) 57.67(P) 47.01(P) 45.70(P) 49.61(P)	
<u>= Pier#5</u> <u>G Pier#6</u> <u>H Pier#7</u> <u>I Pier#8</u> <u>J Pier#9</u>	61.67 £(F 51.51 £(F 50.20 £(F 53.11 £(P	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	53.20 27 57.14 Rt. 148.00 27. 148.00 27	57.67(F) 47.01(P) 45.70(P) 49.61(P)	
<u>GPier#16</u> H <u>Pier#7</u> 1 <u>[ier#8]</u> <u>JPier#9</u>	51,51 ¢(F 50,20 ¢(F 53.11 ¢(P	$\begin{array}{c} 2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -4 \\ -5 \\ -5$	148.00 LT. ) 46.03 Rt. 43.74 LT. ) 42.67 Rt. 50.39 Lt. ) 46.83 Rt.	47.01(P) 45.70(P) 49,61(P)	
H Pier#7 1 <u>Pier#8</u> J Pier#9	53.11 ¢(P	) 4, 5(P)	) 42.67RH 50.3947 ) 46, 83 Ft.	43,61(P)	
J Pier #9		$\frac{2}{2} \frac{4.5(P)}{4.5(P)}$	) 46, 83 Rt	43,61(P)	
		$\mathcal{O} \parallel \mathcal{A} \mathcal{F} \mathcal{O}$	40.01 LT	ALSZ(P)	4
	50.82 £(A	1 2.5 11	) <u> </u>		
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JUN 0 7 1958

<b>REV.</b> 07-01-91	BRIDGE NO.	$\frac{79}{\text{unty route}}$	5.096 DAFE	6-7.93
BENT/PIER NO.	TOTAL HEIGHT (TOP OF CAP TO BOTTOM OF FOOTING)	(t) FOOTING THICKNESS	<u>W/FTG @ H =</u> (TOP OF CAP T) TOP OF FOOTING)	EXPOSURI
ABUTHI.	······································			
BONT #1			-	27,5'
₩-5°				32.0'
#3	· · -	х.	• •	33.0'
Bonr H 1-	61.1°	4,0 '	57.1	42,1'
# 5	61.7'	4.0	57,7'	48.0'
. H 6	51.5'	4.5	4.7,0'	46,8'
7	······································			30.1'
ર્દ				368'
9	· · · · · · · · · · · · · · · · · · ·	   	-	22.7'
ABUTHZ	· · · · · · · · · · · · · · · · · · ·			
	Meas	urments From	Top of Column Be	n+#5
100'upstream		 		46.0'
100'upstream Through Bolgi				45.8'
100 Downstream				46.5'
		· · · · · · · · · · · · · · · · · · ·		 
	ни - Полони	· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·
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#### STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION P. O. BOX 429 JACKSON, TENNESSEE 38302-0429

MEMORANDUM

1

TO: Mr. Larry Hinds Civil Engineering Manager 2

FROM: Jim Akin Regional Bridge Engineer

SUBJECT Bridge No. 79 - 1-40 - 5.09 L&R over Wolf River

DATE: January 17, 1990

Attached are soundings we made January 16, 1990 around Bent 6 on subject structures. This reflects an increase in channel bank scour since our last inspection of April 26, 1989.

JA/w Attached

cc: Mr. Bill Moore

HIT. Condente w/ 78

9 **2** 6 6 المراجع المراجع (G#

Bent "6 LT. Lane 79-<u>140-</u>5.09 1-16-90 Bark. and the second second second Corbin Coltrain 10' 40' 40' 401 5' 20' <u>s'</u> 20' <u>5'</u> 20' 51 51 51 <u>-5'</u> 10' <u>5'</u> 10' 3' 4' 3' 4' <u>3'</u> 4' <u>-3'</u> Co1 10 Col C.1 Col A <u>4.5' 3.0'</u> 4' 1' 4.5' 4. 3,5' 3' 3' ß <u>3.5'</u> 10' <u>3'</u> '' 3' 3' <u>3'</u> 1000 3.0 2.0 3.0 3,0 1' 4.51 4.5' 4.5 4.5' 4' 4' Off Edge of Footing 3' 3' 3' 3'

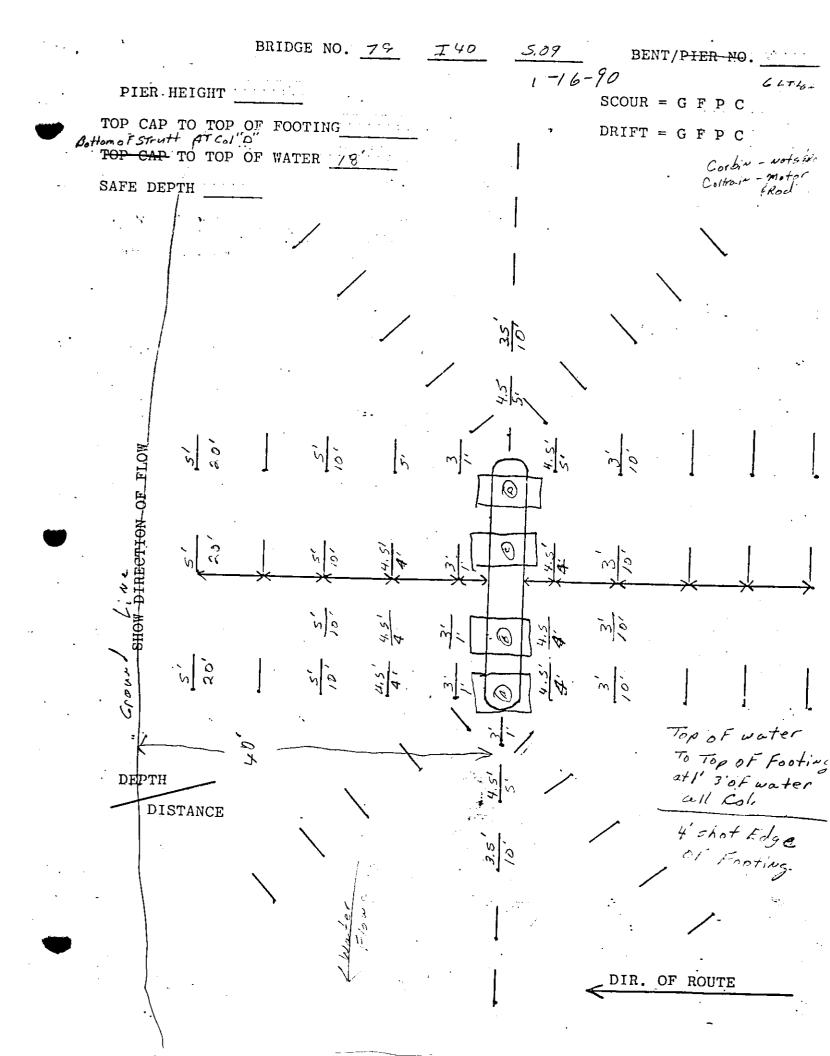
D'stance

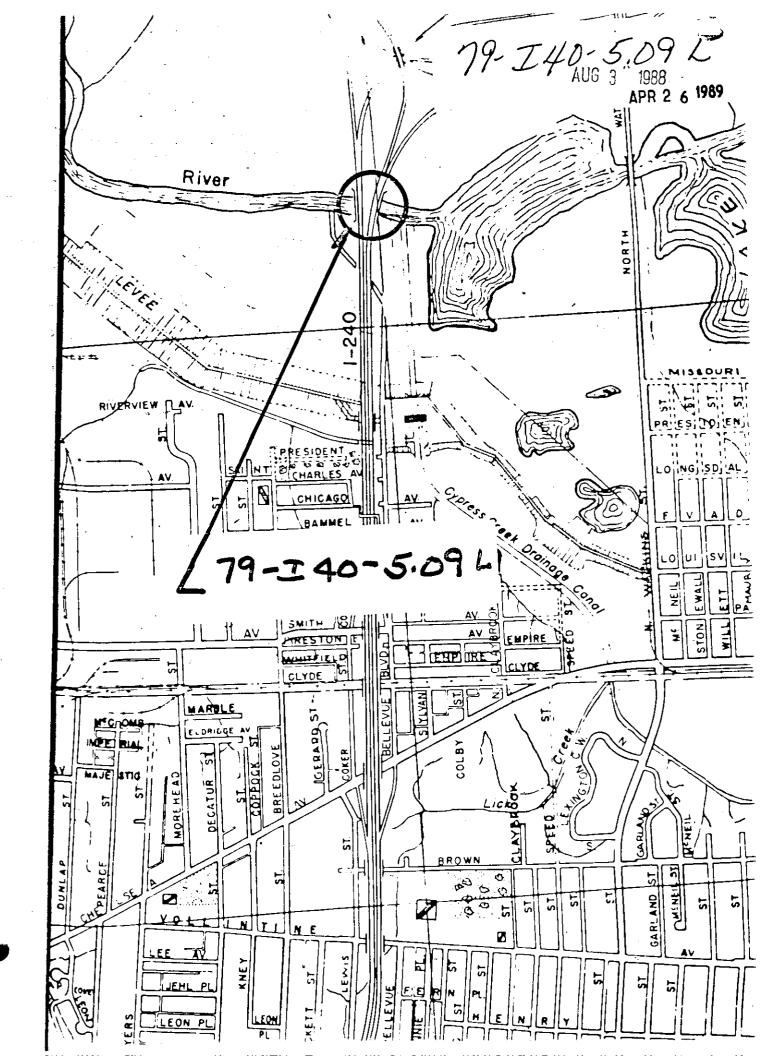
Flow: I'shot on Top OF Footing 4' shot OFF OF

Edge of Footing

Bottom of Strutt To Top of water 181

Route Direction





APR 2 6 1989

INSPECTION TEAMS SUMMARY

BRIDGE NO. 79 I-40 5.091

THIS COLUMN BEAT BRIDGE WAS SOUNDED WITH 25 ROD. THERE WAS LARG DRIFT CAUGHT ON BENTHA AROUND COLLIMN -D- CRUSING HEAVY EROSION ON EMBANKMENT BETULEEN BENT # 3+4. FOOTING WAS FELT ABOUND COLUMN APCID OF BENFE SFOUR AND ENBRUK-MENT EROSION IS IN POOR CONDITION. <u>27.</u>

APR 2 6 1989 BRIDGE NO. <u>19</u> <u>I-40</u> 5.09 LT BENT/PIER NO. PIER HEIGHT SCOUR = G F(P) CTOP CAP TO TOP OF FOOTING DRIFT = G F PCPC TOP CAP TO TOP OF WATER SAFE DEPTH Ground to bottom of Strut - 12 2/2 2 cip × 0 FLOW SHOW DIRECTION OF 000 DEPTH DISTANCE DIR. OF ROUTE

APR 2 6 1989 BRIDGE NO. 29 I-40 5.09 LA BENT/PHEN NO. 5 PIER.HEIGHT SCOUR =  $G F P C_{\odot}$ TOP CAP TO TOP OF FOOTING DRIFT = G F P C / /TOP CAP TO TOP OF WATER RC SAFE DEPTH - - - - apoil of o FLOW Ъ SHOW DIRECTION 10 2-WY NS 10 il a ministra E 0 Xin DEPTH DISTANCE è DIR. OF ROUTE

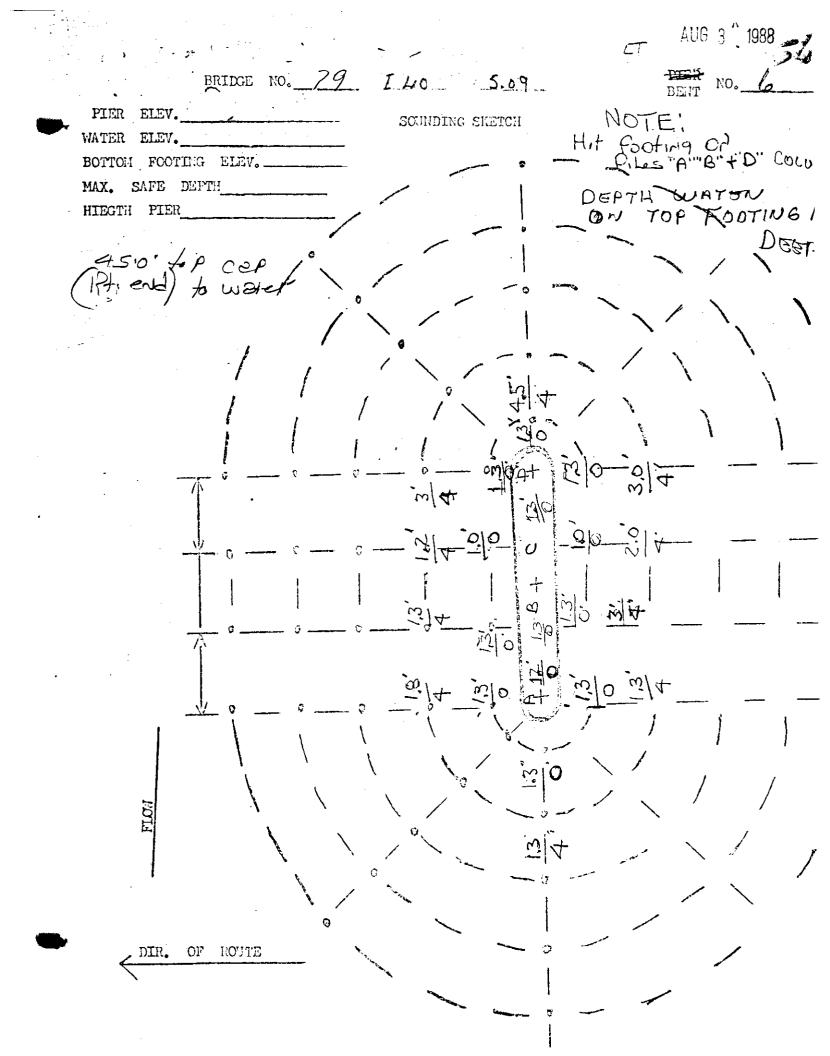
APR 2 6 1989 BRIDGE NO. 79 I-40 5.09 17 BENT/PHER NO. PIER HEIGHT SCOUR = G F  $\bigcirc$  C TOP CAP TO TOP OF FOOTING_____ DRIFT =  $\widehat{G}$  F P C TOP CAP TO TOP OF WATER SAFE DEPTH  $\cdot \cdot \cdot \cdot \cdot \cdot$ of Waler Strut 19 from top of to bottom of Si , <u>,</u> 30 FLOW SHOW DIRECTION OF 0 i)0 cthy. オイン DEPTH 5 DISTANCE NW. DIR. OF ROUTE

79-1-40 - 5.09 25 APR 2 6 1989 JC PENT #7 WATER LINE LAST Emp. 7301 BENT MAIN FLOW C  $\mathcal{P}$ r T Chip : R OW - TREE 16 niA بي سوي سار 40 SAND PAD THI CALL BAR 5TAN 211 3 35 UNTER PIR  $\mathcal{R}^{-}$ 1-¥ Sur E PERT 23

AUG 3 1988 BRILGE NO. 79 .1-40 5.09 DENT NO. 5 PIER ELEV. SCUNDING SKETCH APR 2 6 1989 WATER ELEV. BOTTOM FOOTEN ELEV. MAX. SAFE DEPTH HIEGTH PIER 45.0 - top ccp ) to writter end 6 ejm". e' a م<u>و</u>ز. <u>_ل</u> ا 5.2 5 FLO ð DIR. OF ROUTE

APR 2 6 1989 AUG 3 1988 CΤ BENT NO. I.40 5.09 BRIDGE NO. 79 lo NOTE! PIER ELEV. SOUNDING SKETCH WATER ELEV. Hit Footing Or - Piles "A""B" + D" Colum BOTTOM FCOTING ELEV. DEPTH WATON MAX. SAFE DEPTH ON TOP ROOTING 1. HIEGTH PIER DEED 450' top cap end) to wate omkrat 4 w/a <u>}</u> 0,0 <u>_9</u>0_ υ +3 mj; - For to <u>m</u>β <u>mi</u>o 2:10 m/4 0/0 <u>in 0</u> ビビレ Ņ  $\checkmark$ OF ROUTE

AUG 3 1988 Et. BRIDGE NO. 79 1-40 5.09 DENT NO. PIER ELEV. SCUNDING SKETCH WATER ELEV. BOTTOM FOOTING ELEV. MAX. SAFE DEPTH HIEGTH PIER AS.o. top cop Rt. end to water end 105 e e l'm e: [m] ٥ 5,0 N FLON G DIR. OF ROUTE



# 79-I40-5.09 EBL

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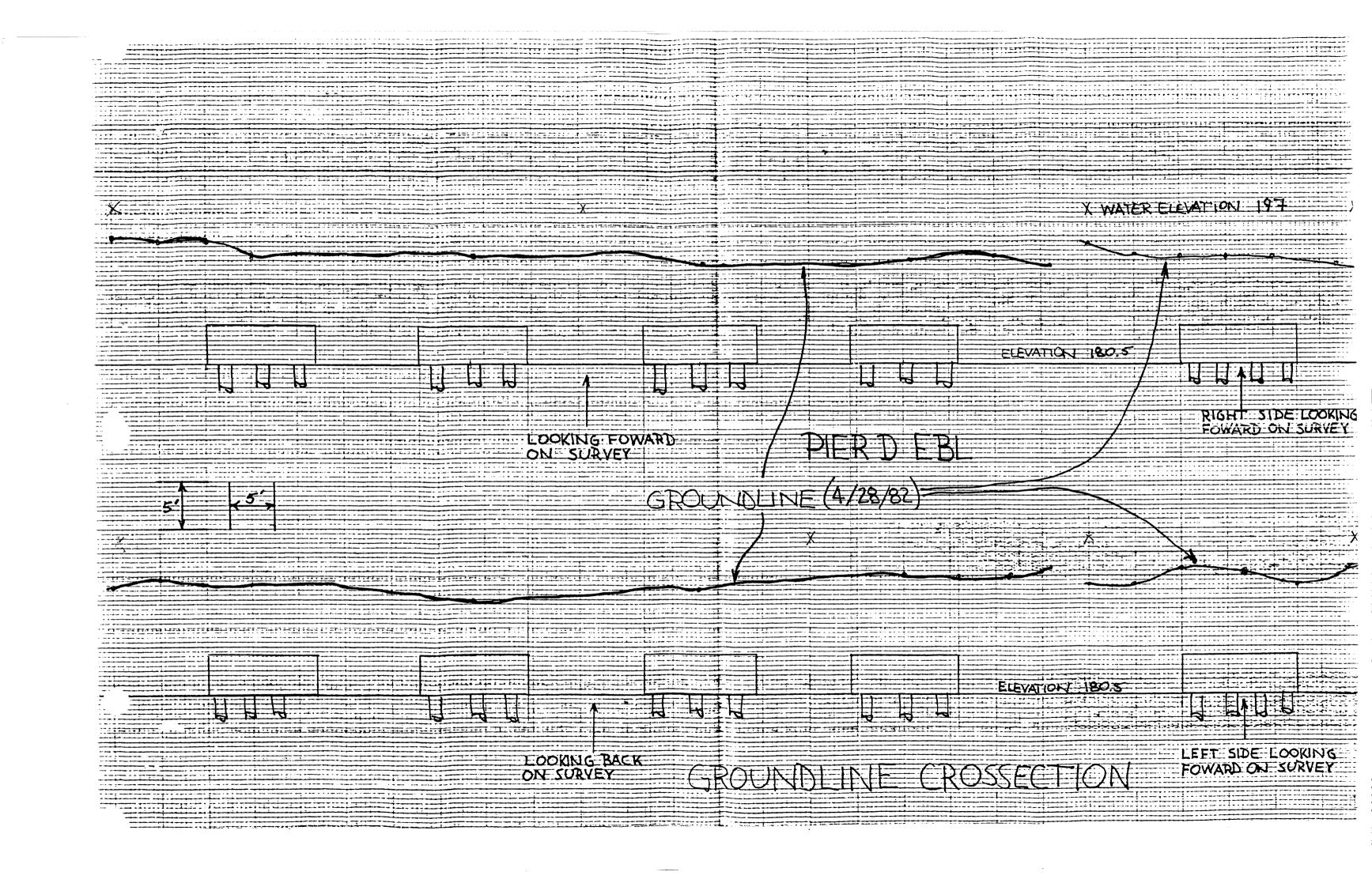
8/22/83

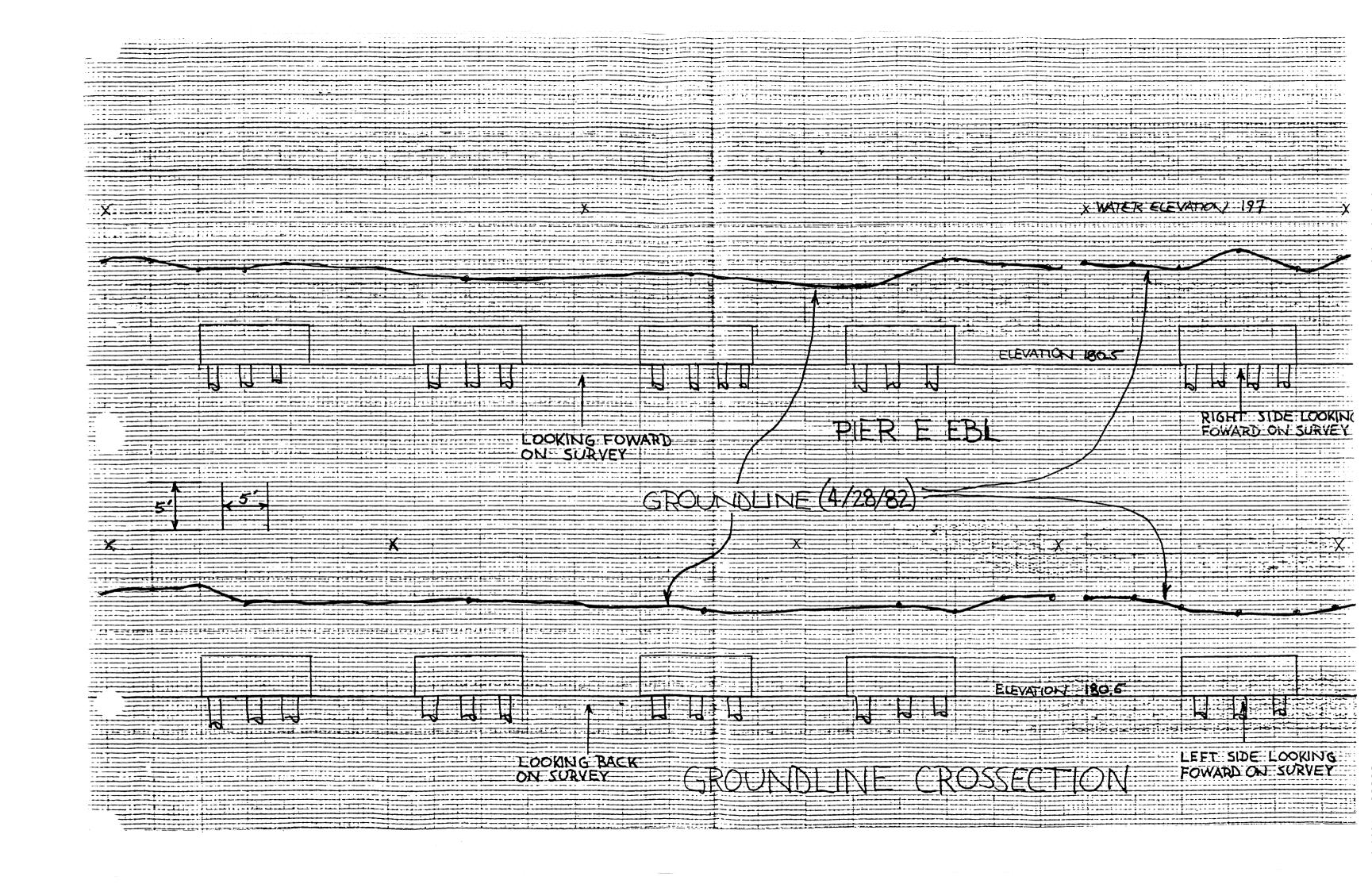


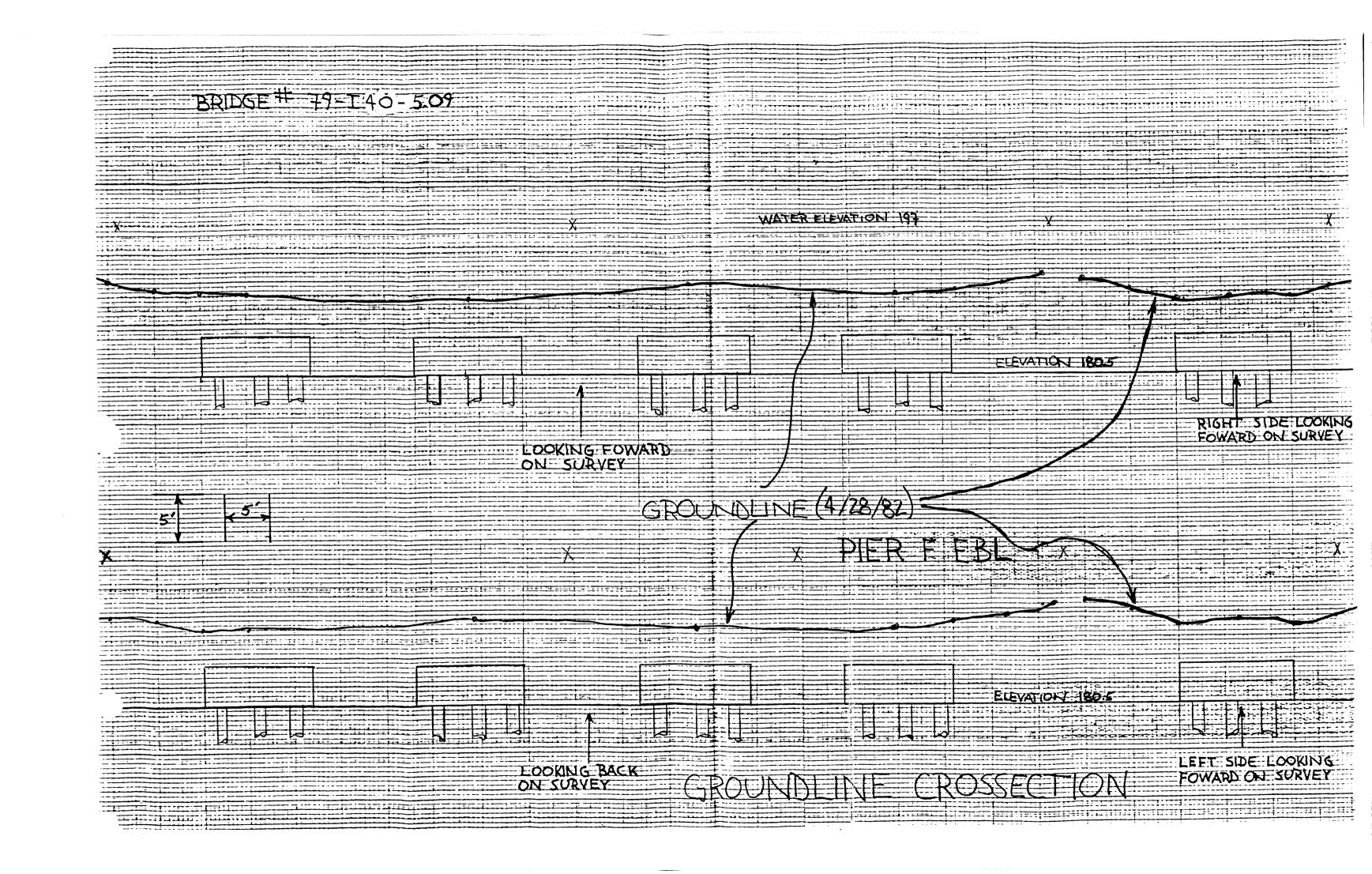
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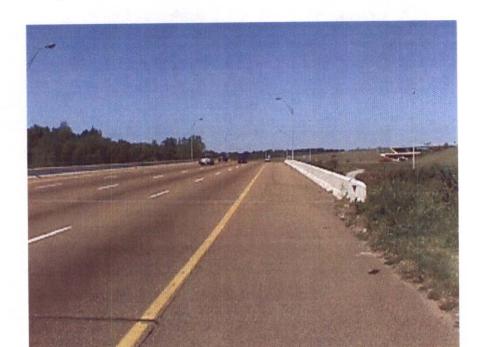
Bridge Loc. No: 79 - 10040 - 05.09 - L Date: 09-16-99



**RIGHT SIDE VIEW OF BRIDGE** 



VIEW ACROSS TOP OF DECK



Bridge Loc. No: 79 - 10040 - 05.09 - L Date: 09-16-99

### LOOKING AHEAD ON ROUTE



**ABUTMENT #1** 

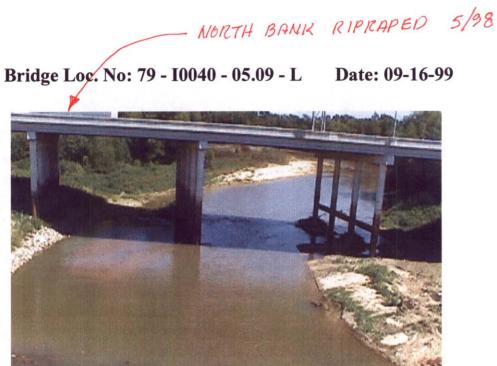
Bridge Loc. No: 79 - 10040 - 05.09 - L Date: 09-16-99



ABUTMENT #1 EMBANKMENT UNDER CAP



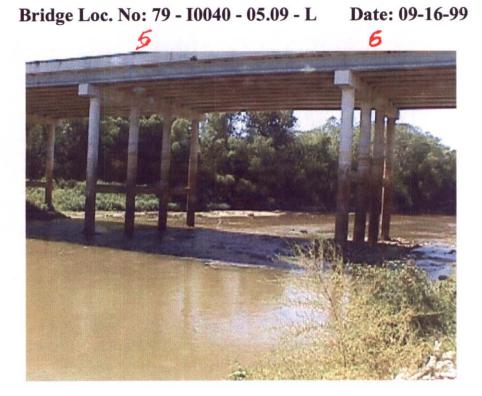
LOOKING DOWNSTREAM, LEFT SIDE



LOOKING UPSTREAM, RIGHT SIDE



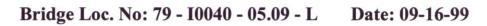
LOOKING BACK ON ROUTE



**BENT #5 & BENT #6** 



LEFT SIDE VIEW OF CHANNEL



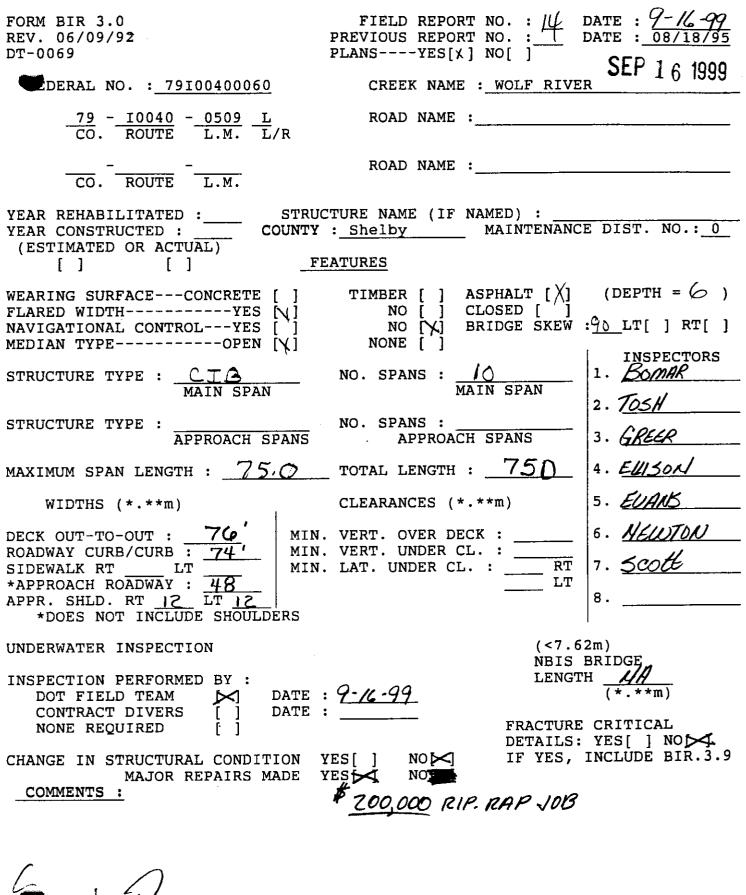


**BOTTOM OF DECK, SPAN #7** 



**ABUTMENT #2** 

#### BRIDGE INSPECTION REPORT



PERVISING BRIDGE INSPECTOR

BRIDGE RATING [ ] [ ] [ ] [ ] GOOD FAIR POOR CRITICAL

FORM BIR 3.1 Rev. 3-1-97       BRIDGE LOC. NO. <u>79 - I40 - 509L</u> (LOG km)       DATE:         PMFORMANCE EVALUATION       Time of day inspected <u>I.00 PM</u> Weather conditions <u>Hot. 80°</u> Vehicles observed <u>MLL TUPES</u> Vehicles observed <u>MLL TUPES</u> Substructure       COMMENTS         Substructure Horiz. & Vert. Defl []       [N]       COMMENTS         Superstructure Horiz. & Vert. Defl []       [N]		SEP 1 6 1999
Time of day inspected //OO PM_ Weather conditions //DT. SD°         Vehicles observed //// ///////////////////////////////	Rev. 3-1-97 BRIDGE LOC. NO. $\frac{79}{120} - \frac{740}{100} - \frac{507L}{100} \left(\frac{100}{100}\right)$ DATE	:
Vehicles observed       MULTUPES.         LIVE LOAD BEHAVIOR       YES       NO       COMMENTS         Substructure       Horiz. & Vert. Defl []       []       []	PERFORMANCE EVALUATION	
Vehicles observed       MULTUPES.         LIVE LOAD BEHAVIOR       YES       NO       COMMENTS         Substructure       Horiz. & Vert. Defl []       []       []	Time of day inspected 1.00 PM Weather conditions Hot. 8	0°
LIVE LOAD BEHAVIOR     YES     NO     COMMENTS       Substructure     Horiz. & Vert. Defl []     [M]		
Superstructure       Horiz. & Vert. Defl []       [K]         Horiz. & Vert. Defl []       [K]         APPROACH       G F P C         Slab       G F P C         Joints       G F P C         Joints       G F P C         Damas       G F P C         Pavement       G F P C         Embankment       G F P C         Drains       G F P C         TRAFFIC SAFETY FEATURES       STANDARD SUB-STANDARD         Bridgerailing       G F P C         Guardrail       G F P C         Guardrail       G F P C         SIGNING       YES NO         Narrow [] One Lane Bridge [] - []       [] GROSS	LIVE LOAD BEHAVIOR <u>YES</u> NO <u>COMME</u> Substructure Horiz. & Vert. Defl [] [X]	<u>INTS</u>
Alignment       G       F       P       C       A/V         Joints       G       P       C       A/V       Image: Solution of the second of the secon	Superstructure Horiz. & Vert. Defl [] [X]	
Bridgerailing       G       F       P       C       [\vee v]       [\vee v] <t< td=""><td>APPROACH       G       F       P       C         Alignment       G       F       P       C         Slab       G       F       P       C         Joints       G       F       P       C         Pavement       G       F       P       C         Embankment       G       F       P       C         Drains       G       F       P       C</td><td>······································</td></t<>	APPROACH       G       F       P       C         Alignment       G       F       P       C         Slab       G       F       P       C         Joints       G       F       P       C         Pavement       G       F       P       C         Embankment       G       F       P       C         Drains       G       F       P       C	······································
Bridgerailing Transitions       G       P       C       [N]       []         Guardrail Guardrail Guardrail Terminal       G       F       P       C       [N]       []         SIGNING       YES       NO       NEEDED         Paddleboard []       []       []       WEIGHT LIMIT POSTED YES []       NO [V]         Vertical Clearance (< 4.4 m) []	TRAFFIC SAFETY FEATURES	
YES       NO       NEEDED         Paddleboard []       []       []       WEIGHT LIMIT POSTED         Vertical Clearance (< 4.4 m) []		
Paddleboard []       []       WEIGHT LIMIT POSTED         Vertical Clearance (< 4.4 m) []	SIGNING YES NO NEEDED	
Narrow [] One Lane Bridge [] - [] [\]       GROSSTONS         2 AXLETONS         3 OR MORE         AXLESTONS         Other Signs or Plaques         Comments Regarding Any Problems With Signing         RECOMMENDATIONS         Bridgerail Is Substandard         Approach Rail Is Substandard         Install Paddleboard Signs	Paddleboard $       []$ $N$ $[]$ WEIGHT	
2 AXLETONS       3 OR MORE       AXLESTONS       Other Signs or Plaques       Comments Regarding Any Problems With Signing       RECOMMENDATIONS       Bridgerail Is Substandard []       Install Post Load Limit Signs []       Install Paddleboard Signs []	Vertical Clearance (< 4.4 m) [] [ $$ ] [] GROSS	TONS
AXLESTONS Other Signs or Plaques Comments Regarding Any Problems With Signing RECOMMENDATIONS Bridgerail Is Substandard [ ] Install Post Load Limit Signs [ ] Approach Rail Is Substandard [ ] Level Approach [ ]	Narrow [] One Lane Bridge [] - [] $[\chi]$ [] 2 AXLE	TONS
Comments Regarding Any Problems With Signing <u>RECOMMENDATIONS</u> Bridgerail Is Substandard [] Install Post Load Limit Signs [] Approach Rail Is Substandard [] Level Approach [] Install Paddleboard Signs []		
RECOMMENDATIONS Bridgerail Is Substandard [] Install Post Load Limit Signs [] Approach Rail Is Substandard [] Level Approach [] Install Paddleboard Signs []		
Bridgerail Is Substandard [] Install Post Load Limit Signs [] Approach Rail Is Substandard [] Level Approach [] Install Paddleboard Signs []	Comments Regarding Any Problems With Signing	<u></u>
Approach Rail Is Substandard [] Level Approach [] Install Paddleboard Signs []		mit Signe [ ]
Other Recommendations	Approach Rail Is Substandard [ ] Level Approach	
	• Other Recommendations	

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NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

M BIR 3.2 Rev. 3-1-97 BRI DT-0081	DGE LOC. NO. $\frac{79}{\text{CO. ROUTE}} = \frac{509 \text{L}}{\text{L.M.}} (\underline{\text{LOG km}})$ DATE:	<u> </u>
DECK	COMMENTS	
WEARING SURFACE DECK - STRUCTURAL CONDITION	G P C G P C	<u> </u>
CURBS MEDIAN SIDEWALKS PARAPET RAILING PAINT DRAINS LIGHTING STD'S UTILITIES JOINT LEAKAGE EXPANSION JOINTS	G F P C $G F P C$	
SUPERSTRUCTURE	COMMENTS	
BEARING DEVICES GREDERS OR BEAMS FLOOR BEAMS STRINGERS DIAPHRAGMS BRACING TRUSSES - GENERAL - PORTALS - BRACING PAINT ALIGNMENT OF MEMBERS	G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C         G       F       P       C	
TEXTURE COAT		
CONDITION RATING	G (F) P C FADING G (F) P C	
OVERALL APPEARANCE	G (F) P C NEEDS SPOT PAINTING? YES [] NO [X]	
STAINING COMMENTS:	G(F) P C NEEDS REPAINTING? YES [ ] NO $[X] SCALING G(F) P C$	
RECOMMENDATIONS	CLEAN & SEAL JOINTS [ ]	
	CLEAN DRAINS []	

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

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REV. 3-1-97 DT-0082	BRIDGE LOC. NO. <u>79</u> -140 CO. ROUT	E L.M. (LOG km)	DATE :
SUBSTRUCTURE ABUTMENTS	COMMENT	—	PILES TO BE REPLACED
CAPS BREASTWALL WINGS BACKWALL PLUMB FOOTING PILES EMBANKMENT BEARINGS SLOPE PAVING RIP RAP	G F P C G F P C G F P C	Washing	PILE(S)     BENT
PIERS			
CAPS COLUMNS PLUMB FOOTINGS PILES BEARINGS WEB	G F P C G F P C G F P C G F P C		
BENTS			
CAPS COLUMNS PLUMB FOOTINGS PILES BEARINGS BRACING Strots	G F P C G F P C		
	PILES NEED REPLACEMENT	NO $[\chi]$ YES $[]$	
	CUT VEGETATION	NO [X] YES []	
	CLEAR DRIFT	NO $[\chi]$ Yes []	
RECOMMENDATION	NS:	<u>_</u>	

والمعقد والمراجع

NOTE: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

and a second second

	BIR 3.8 3-1-97 BRIDGE LOC. NO. $\frac{79}{CO.} - \frac{740}{CO.} - \frac{5.09L}{L.M.} (\frac{100}{LOG km})$ DATE: $\frac{9-16-99}{CO.}$
	STREAM CHANNEL DATA AND CONDITIONS
	STREAM CROSSING: WOLF RUCK
I.	- charles Sand-silt And Clay
	Channel and bank stability conditions: (check if applicable) 1. Steep bank - Failures upstream [] downstream [] conditions 2. Moderate bank erosion [X] 3. Bank (a) low growth [X] (b) large timber [X] Vegetation (c) dead trees [X] (d) clear banks [] 4. Sediment or gravel accumulation: YES [] NO [X] UNKNOWN [] 5. Channel altered or straightened: YES [] NO [X] UNKNOWN [] 6. Stable conditions: (a) live growth [X] (b) bedrock [] (c) boulders [] (d) flat slopes [] (<=2:1)
III.	<pre>Waterway adequacy and debris characteristics: (check if applicable) 1. Bridge deck elevations:     (a) level with approach roadway</pre>
IV.	comments: Light Scattered Debris Under Structure With Small Drift on RT Side Bent #5 Rip Rap Across Channel Upstroam Side
* *	* * * * * * * * * * * * * * * * * * *
■.	Does this bridge need a special inspection? YES [ ] NO 🕅 Reason for special inspection:
NOTE	: UNLESS OTHERWISE NOTED, MEASUREMENTS ARE TO BE TAKEN TO TWO (2) DECIMAL PLACES IN METERS.

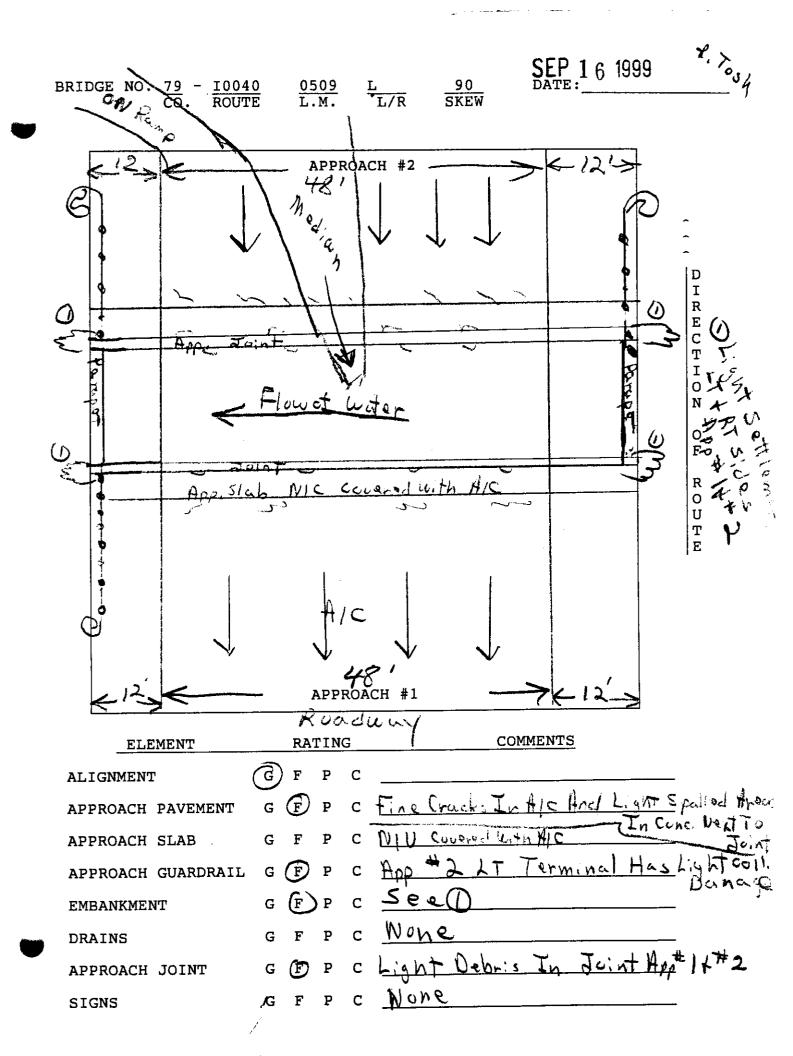
#### INSPECTION TEAMS SUMMARY

### SEP 1 6 1999

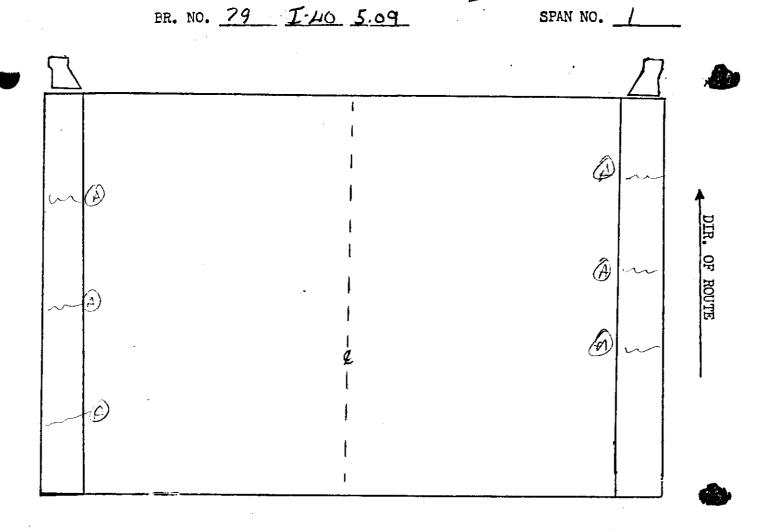
BRIDGE NO. 79 10040 0509 L CO. ROUTE LM R/L

is in Fair Condition Standar NO ATO patores loc K or Anorooches, mare Super struct 000 0106 ems Mo 0 Dro ems 500 <u>foo</u> ings HOCH Fonak 1 PONTIS CROSS SECTION

SEP 1 6 1999 T-40 BR. NO. 79 5.09 IT DIR. OF ROUTE F = FIXED = EXPANSION = SIMPLE = CONTINUOUS Е S C l Total 750.0 Æ. 75.0 75.0' 8 Spans @ 75.0' ک ABUT. # 1 BENT # 1 ABUT. # 2 SIDE OF BR.



BR. NO. 79 I-40 5.09



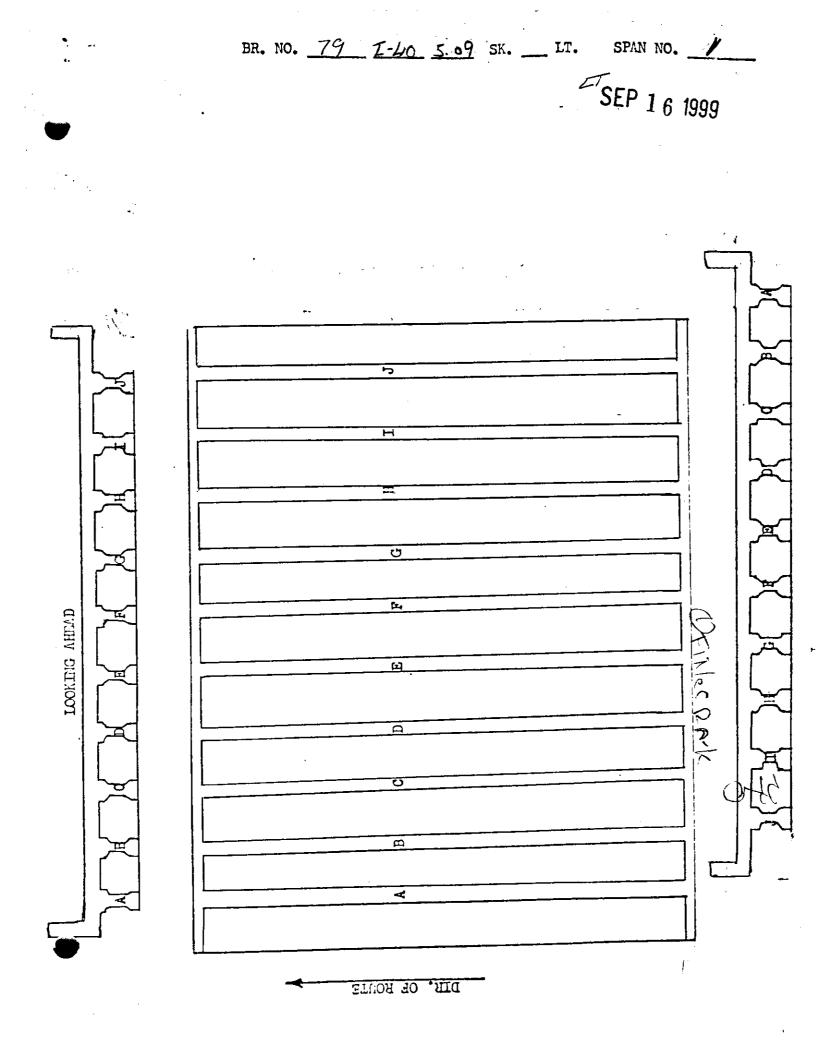
SEP 1 6 1999

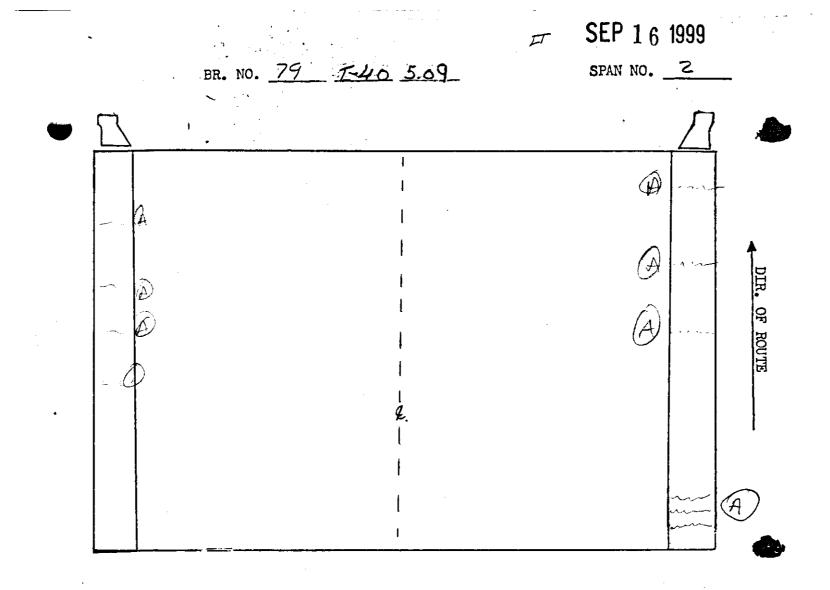
ET EMENT	RATING	COMPENT
TOP DECK	G F P C	Nonmal Tratice Abre.
PARAPET	CFP C	DEFine Creeks
RATLS & POST	GFPC	•
DRAINS	GFPC	-None
EXP. JOINTS	GFPC	·
. ,	GFPC	

BRIDGE NO. 79 I-40 509

BENT NO. _____ SPAN NO. _/ ABT. NO. ____ PIER NO. _

1	
GFPC	
<b>G</b> FPC	·
A FPC	
GFPC	
<u>OFPC</u>	
ØFPC	
GFPC	
10	
GFPC	
· · · · · · · · · · · · · · · · · · ·	
<u> </u>	
()	
	SEE #1
	Jac 4
	GFPC GFPC GFPC GFPC GFPC GFPC





FLEMENT	RATING	COMMENT
TOP DECK	G (F) P C	Normal Traffic AXAS.
PARAPET	G (F) P C	Janmal Traffic AKAS. Five Cracles (A)
RAILS & POST	GFPC	
DRAINS	GFPC	STOPPID.up H.S.de
EXP. JOINTS	GFPC	
, , , , , , , , , , , , , , , , , , ,	GFPC	
	1	

BRIDGE	NO.		<u>T-40</u>	5.09
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_ SEP 1 6 1999 //

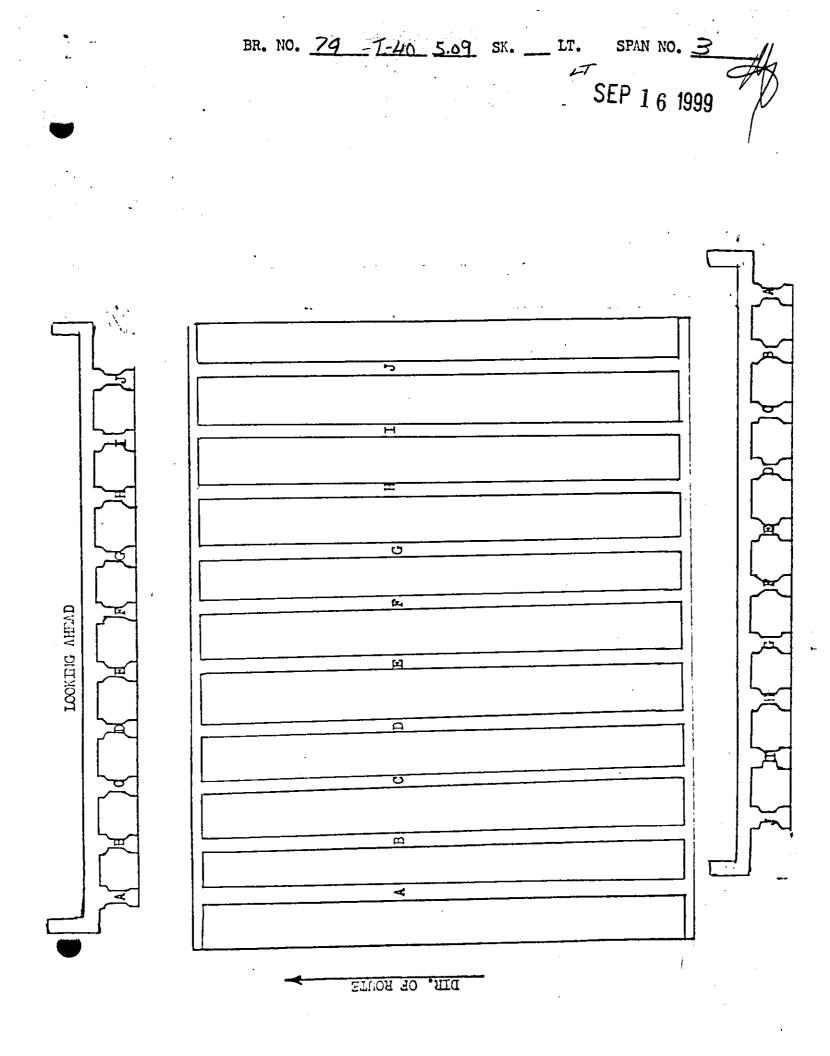
ELEMENT	PATING	COMMENTS
BOTTOM DECK	GFPC	Conc. Ppriebs
CONC. I. BEANS	GFPC	····
. A	<u><u>ÂFPC</u></u>	
В	ØFPC	
C	GFPC	
D	GFPC	
EE	GFPC	
F	GFPC	
G	FPC	
н	GFPC	
I	GFPC	
J	GFPC	
,		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
,		
DIA.	GFPC	
BACKWALLS	GFPC	

BR. NO. <u>79</u> <u>**I**-40</u> <u>5.09</u> SK. <u>LT.</u> SPAN NO. 2 SEP 1 6 1999 5 н 0 (z., DOKING AHEAD भ्य Р σ m 4 11 •HIC OF ROUTE

SEP 1 & 1999 BR. NO. 79 1-40 . 5.09 SPAN NO. 3 t B 5 Elollision Domese Spalled Arri Center of Faro. B Ę <u>}</u>, DIR. OF ROUTE Ð

FLEMENT	RATING	COMENT
TOP DECK	GFP C	Normal TOAFFic Alasa.
PARAFET	GPP C	Dormal TOAFFic Alora. D.F. vie Cracks B Spalled TOP
RAILS & POST	GFPC	
DRAINS	GFPC	H.S.De Stopped-up.
EXP. JOINTS	GFPC	
,	GFPC	
-		

•	C C			
· .	• • • • •	BRIDGE NO. 2	9 <u>I-40</u> 5.09	
BENT NO.	SPAN NO. 3	ABT. NO	PIER NO.	<u></u>
ELEMENT	PATING		COMME NTS	
BOTTOIL DECK	GEP C			
CONC. I. BEANS	GFPC	·		
	GFPC			_
B	GFPC		, t	_
C	GFPC			
D	GFPC ·	······	<u> </u>	<b></b>
E	OF PC			
F	GFPC			_
G	GFPC			_
<u> </u>	GFPC			-
I	GFPC		••	<u> </u>
J/	GFPC			
· · · ·				_
·····			<u> </u>	
•				
				<u></u>
DIA.	GFPC	<u></u>	· · · · · · · · · · · · · · · · · · ·	_
BACKWALLS	GFPC			

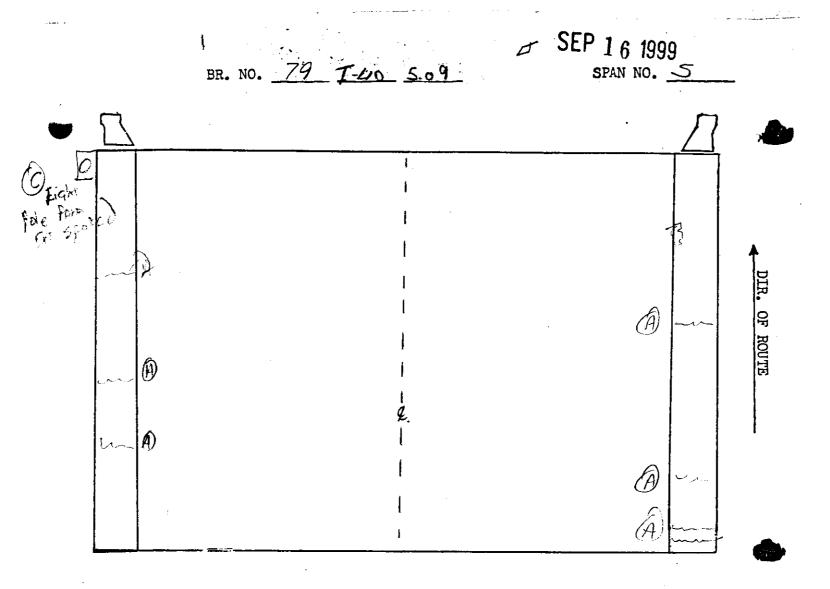


SEP ] & 1999 SPAN NO. 4 BR. NO. 79 1-40 5.09 l D DIR. OF ROUTE (B) Ð Ļ B 1

ELEMENT	RATING	COMMENT
TOP DECK	G P C	Normal Traffic Abran Define Crack (Descute Spatial inco.
PARAPET	GPPC	A Fine CARCIE (E) Studie Sprint
RAILS & POST	GFPC	
DRAINS	G F(P) C	4. S. de Stopped-up.
EXP. JOINTS	GFPC	
• • •	GFPC	•
		·
		· ·
	L	

	•	BRIDGE NO. 79 T-40 5.09
BENT NO.	SPAN NO.	<u>4</u> ABT. NO PIER NO.
ELEMENT	PÁTING	COMMENTS
BOTTOIL DECK	GFPC	Conc. Portelo
CONC. I. BEANS	GFPC	·
A	GFPC	
B	GFPC	,
C	GFPC GFPC	· · · · · · · · · · · · · · · · · · ·
E	¢ F P C	·
F	GFPC	
G	GFPC	
<u> </u>	GFPC	
I	<b>O</b> FPC	
J	GFPC	
······································		
DIA.	GFPC	· · · · · · · · · · · · · · · · · · ·
BACKWALLS	GFPC	

BR. NO. 79 7-40 5.99 SK. _ LT. SPAN NO. 4 SEP 1 6 1999 á 5 Η Ċ £2.1 LOOKING AHEAD भ D C Ē ¥ DIR. OF ROUTE



ELEMENT	RATING	COMMENT
TOP DECK	GFP C	Normal Traffic Alexa. DEINE CRACKS (E) Small spalled Area (E) Light Pole ADEON EXT.
PARAPET	GFPC	AFine Cracks (E) Small spalled Asen (2) Light Pole Abro. Extr Spalled
RAILS & POST	GFPC	
DRAINS	G F(P) C	It. Side . Stopped up.
EXP. JOINTS	GFPC	
	GFPC	
	i i	

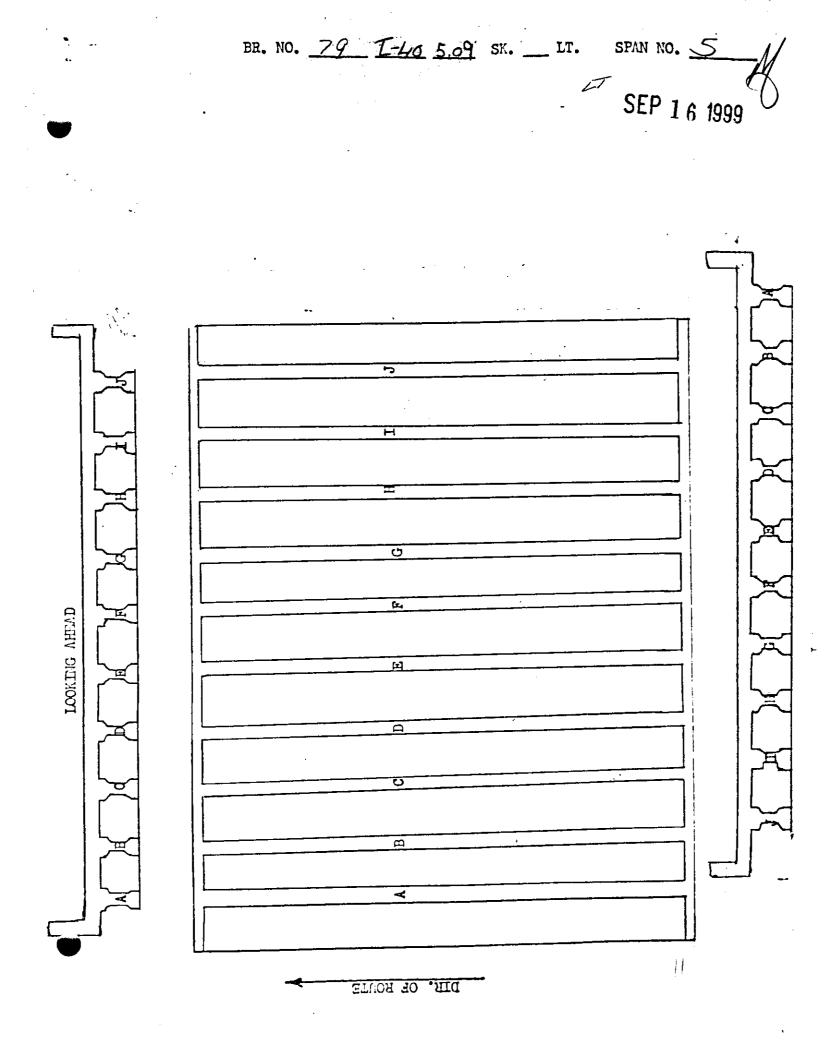
BRIDGE	NO.	79	<u>I-40</u>	509	

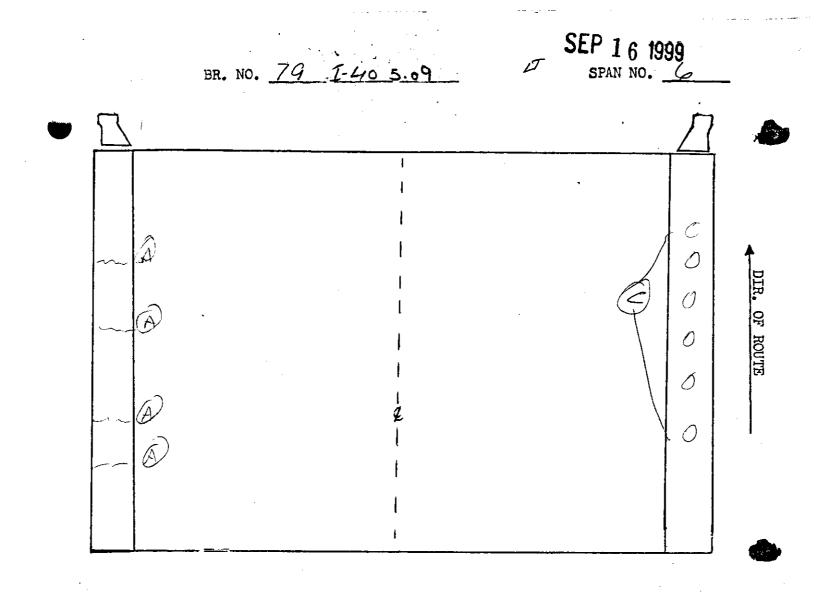
BENT NO.

SPAN NO. <u>5</u>

ABT. NO. ____ PIER NO. _

ELEMENT	PATING	COMMENTS
BOTTON DECK	(FPC_	
CONC. I. BEANS	GFPC	· · · · · · · · · · · · · · · · · · ·
AB	GFPC GFPC	
B	GFPC	11
D	GFPC	
E F	GFPC GFPC	
G	GFPC	
<u> </u>	G F P C	
J	GFPC	·
DIA.	GFPC	
BACKWALLS	GFPC	
	· · · · · · · · · · · · · · · · · · ·	





ELENENT	RATING	COMMENT
TOP DECK	GFPC	Normal Tratfie Abra.
PARAPET	GFPC	@ Ter cart chipping @ Five Charks
RAILS & POST	GFPC	
DRAINS	G F P C	H.S. de Stoppeday
EXP. JOINTS	GFPC	
ι.	GFPC	

SEP 1 6 1999

BRIDGE	NO.	79	T-40	5.09
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BENT NO.

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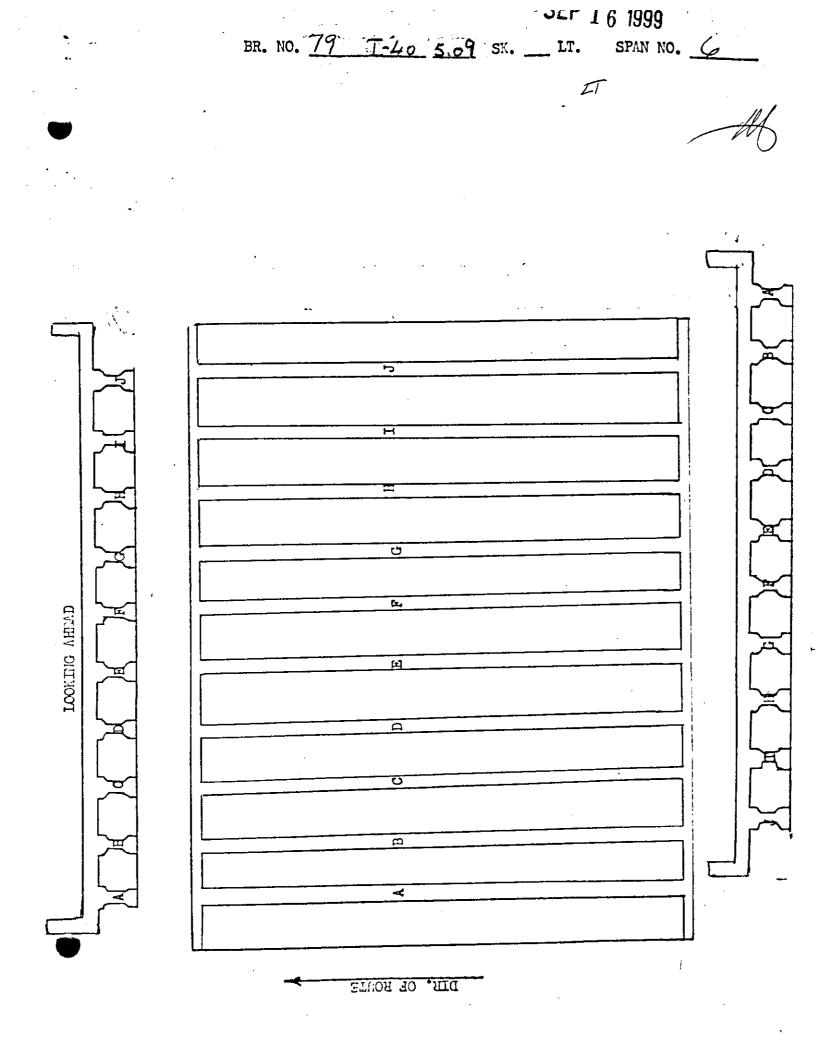
SPAN NO. 6

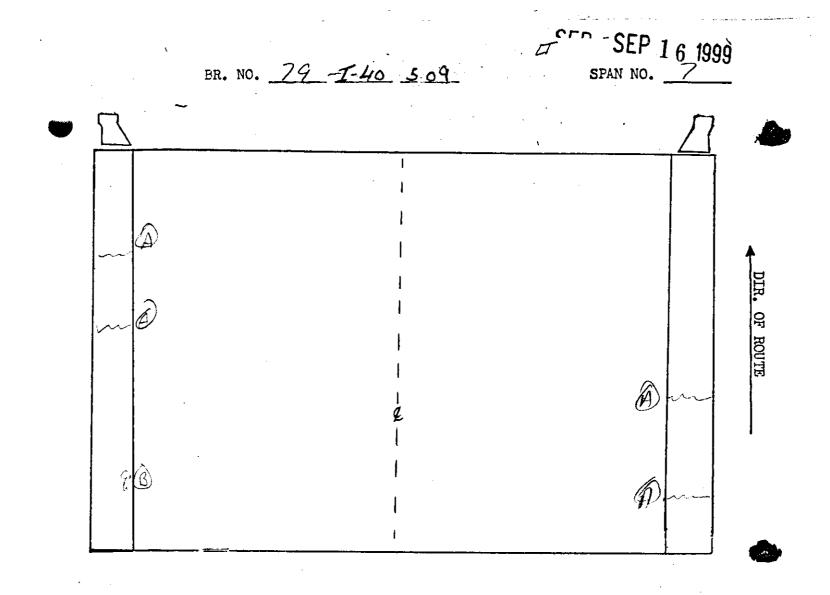
ABT. NO.

_____PIER NO. ____

 $\overline{\mathcal{A}}$ 

ELEMENT	PATING	COMMENTS
BOTTON DECK	CFPC	
CONC. I. BEAMS	GFPC	
<u>A</u> B	GFPC ØFPC	
c	Q F P C	
DE	GFPC	
F	<u>G</u> FPC	
С - ⁻ н	Q F P C	
I	ØFPC	·
<b>J</b>	GFPC	
· · · · · · · · · · · · · · · · · · ·		
DIA.	GFPC	· · · · · · · · · · · · · · · · · · ·
BACKWALLS	GFPC	





FISHENT	RATING	COMENT
TOP DECK	GFP C	Normal Troffic d'aros.
PARAPET	GPPC	Fine (martes @ Spalled Arca
RATLS & POST	GFPC	
DRAINS	GFPC	H.S.d. Stoppedage.
EXP. JOINTS	GFPC	
- , , , , , , , , , , , , , , , , , , ,	GFPC	
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	- <b>-</b>	

BRIDGE	NO.	79	I-40	5.09
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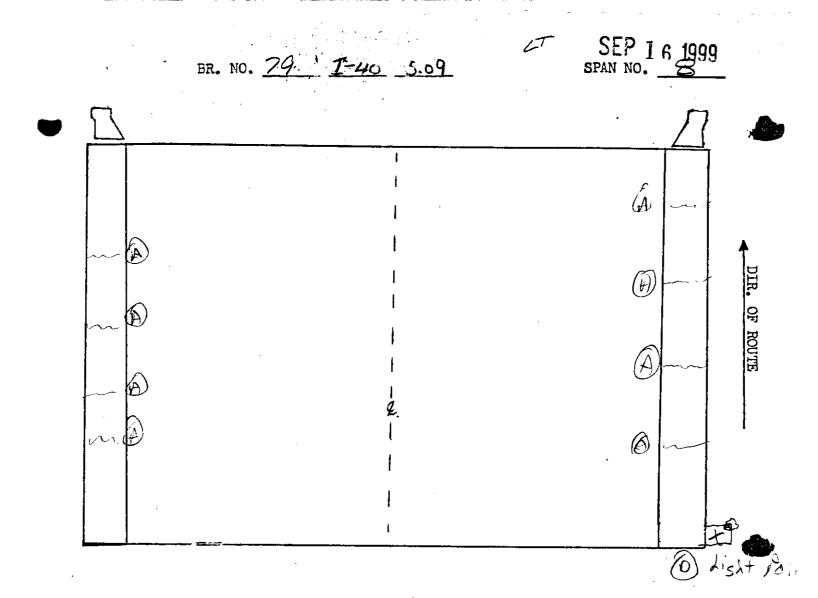
BENT NO.

PIER NO. SPAN NO. 7 ABT. NO.

		COMMENTS
ELEMENT	PATING	
BOTTOH DECK	(G)FPC	Panels
CONC. I. BEMIS	GFPC	
A	GFPC	
B	GFPC	
° C	GFPC	
D	GFPC	
E	(G)FPC	
F	(G)FPC	
G	GFPC	
H	GFPC_	
I	GFPC	
J	GFPC	
K	GFPC	
<u> </u>		
· · · · · · · · · · · · · · · · · · ·	<u> </u>	
DIA.	GFPC	Kone Fine Crucks
BACKWALLS	GFPC	TINK LYGCKS
<del></del>		

SEP 1 6 1999 BR. NO. 79 1-40 509 SK. LT. SPAN NO. 7 ET 1 М 5 Ĥ G LOOLT G B. C. Ē. LOOKING AHEAD មា Ω C Β ¥

DIR. OF ROUTE



ELENENT	RATING	CONTENT
TOP DECK	GFPC	Normal TIAFFIC ADA
PARAPET	ୁ ସହି ହ	Normal TIAFFic Alora D'Fine Cracks D'Light Pole Pora Estenison Spolled
RAILS & POST	GFPC	
DRAINS	GFPC	H. S. de Stopped-up
EXP. JOINTS	GFPC	
· ,	GFPC	
	t	

BRIDGE	NO.	79	T-40	5.09
manor				

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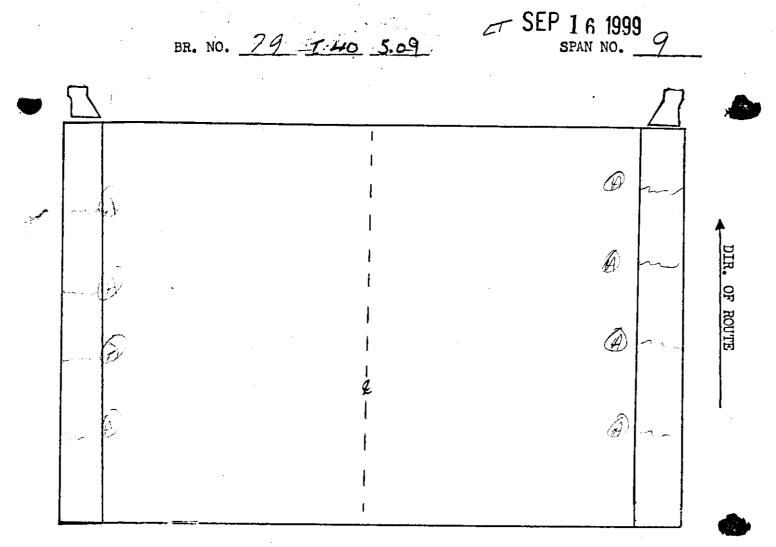
_____ SPAN NO. <u>8</u>____ BENT NO. _

PIER NO. ABT. NO.

ELEMENT	FATING	COMMENTS
BOTTON DECK	GFPC	
CONC. I. BEANS	GFPC	
A	GFPC	
В	GFPC	1
C	OF PC	
D	GFPC	
E	GFPC	
F	GFPC	
G	TOFPC	
H	GFPC	
I	GFPC	
J	GFPC	
ĸ	GFPC	
<u></u>		
	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	NING C
DIA.	GFPC	None Fine Crucks
BACKWALLS	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	tine trucks
<u>, , , , , , , , , , , , , , , , ,</u>		

SEP 1 6 1999 BR. NO. 79 <u>I-4c 5.09</u> SK. LT. SPAN NO. 8 T. Х 5 н 9 LOCIT'R D' D' Ge. LOOKING AHEAD Т ы П Ö щ ¥ DIR. OF ROUTE .

BR. NO. 29 1.40 5.09



9

ELEMENT	RATING	COMENT
TOP DECK	GFPC	Atrial Troffic Alron . @ Fine Chacks
PARAPET	GFPC	@ Fine Coachs
RAILS & POST	GFPC	
DRAINS	G FP C	H. Side Stopped-up.
EXP. JOINTS	GFPC	
۶.	GFPC	
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BRIDGE	NO.	79	<u>T-40</u>	5.09
BRUDGE	NO*		_1-40	

BENT NO.

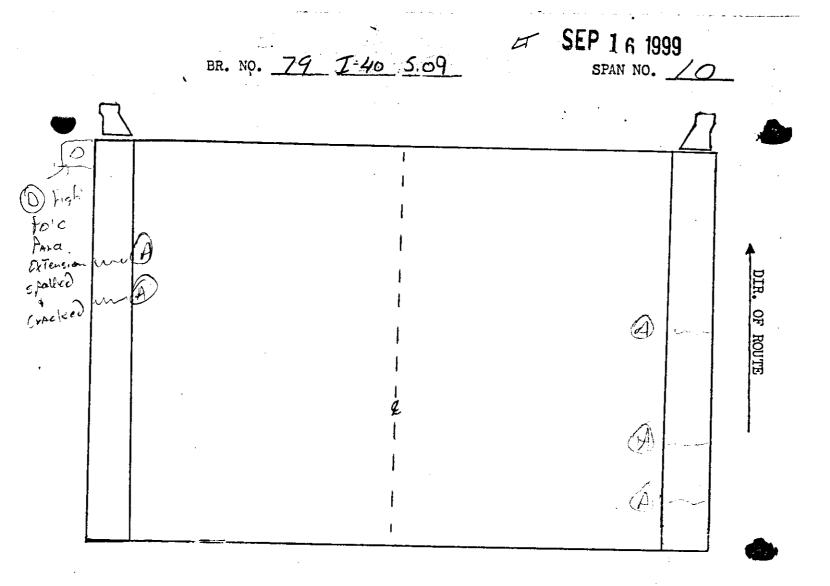
SPAN NO. 9

ABT. NO. ___

PIER NO.

ELEMENT	PATING	COMMENTS
BOTTOH DECK	GFPC	Panels
CONC. I. BEANS	GFPC	
	GFPC	
B	GFPC	· · · · · · · · · · · · · · · · · · ·
C	GFPC	,'
D	GFPC	
E	(CFPC	
F	(G)F P C	· · · · · · · · · · · · · · · · · · ·
G	GFPC	
Н	GFPC	
Ţ	GFPC	
J	GFPC	•
K	GFPC	
L	GFPC	
4		
DIA.	GFPC	Nore
BACKWALLS	OF P C	

SPAN NO. 9 SEP 16 1999 BR. NO. 79 140 5.09 SK RIT  $\overline{\mu}$ . DIR. OF ROUTE ħ К 5 LOOKING r۹ LOCKING Ŀ. (E) Ĥ υ ш ¥



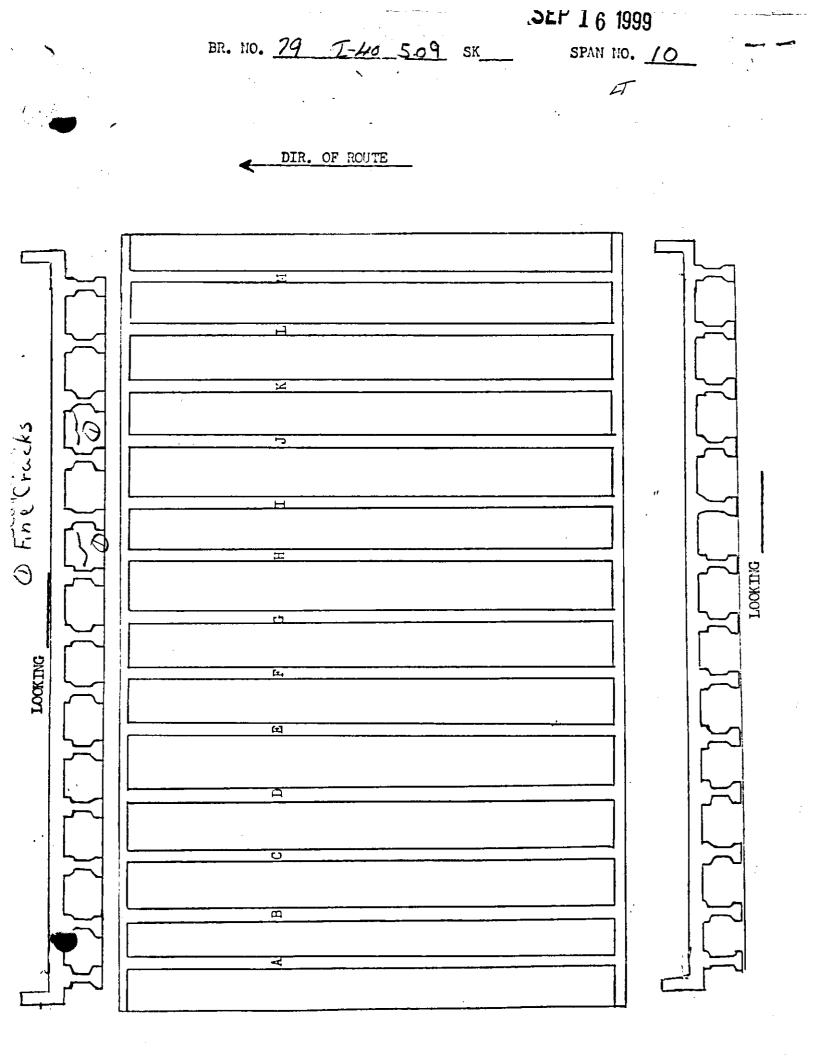
ELEMENT	RATING	COMMENT
TOP DECK	GFPC	Normal Trettic Abra.
PARAPET	GPPC	Fine Cracles Dright Foile PAIA- ErT. Spolled + CrAcked
RAILS & POST	GFPC	
DRAINS	GFPC	No history .
EXP. JOINTS	GFPC	
· ,	GFPC	
· ·		
	1	

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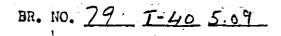
## BRIDGE NO. 79 7-40 5.09

BENT NO. _____ SPAN NO. // ABT. NO. ____ PIER NO. ____

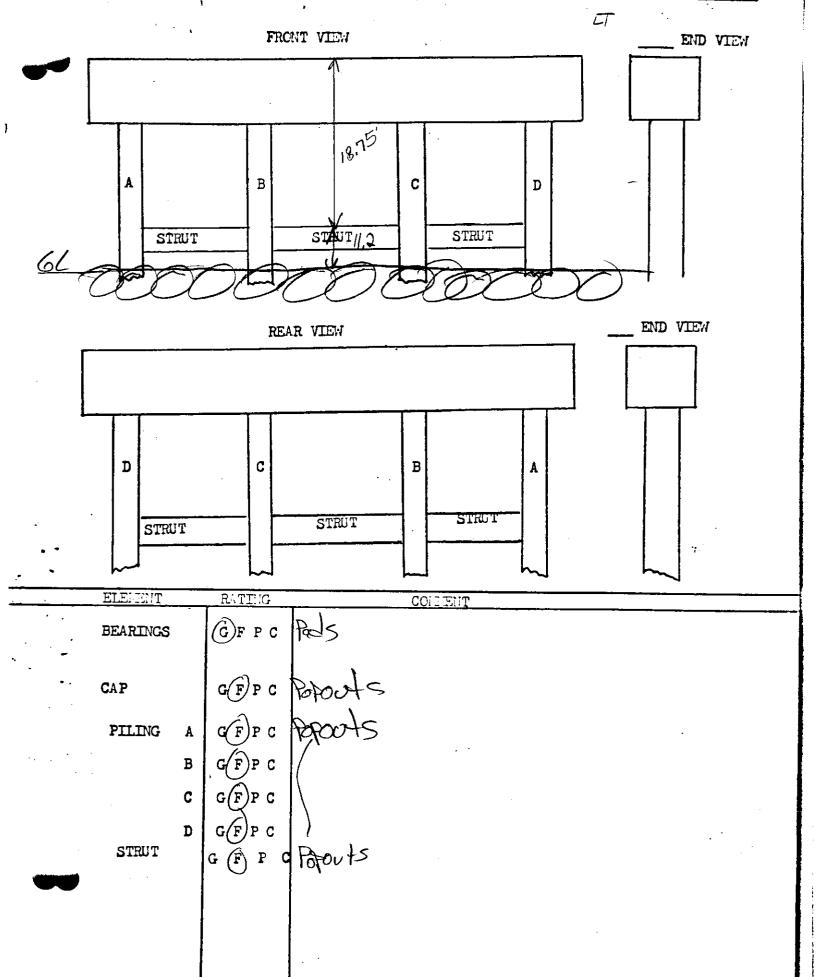
ELEMENT	RATING	COMMENTS
BOTTON DECK	GFPC	Panels
CONC. I. BEANS	(GFPC	
A	GFPC	
B	OFPC	
<u> </u>	GFPC	
D	GFPC	
	GFPC	
F	GFPC	
G	(G)FPC	· · · · · · · · · · · · · · · · · · ·
Н	(G)FPC	
I	GFPC	
J	GFPC	
К	<u>GFPC</u>	
L	(G) F P C	
M	GFPC	-
DIA.	GFPC	Nona
BACKMALLS	GFPC	Nona Sero
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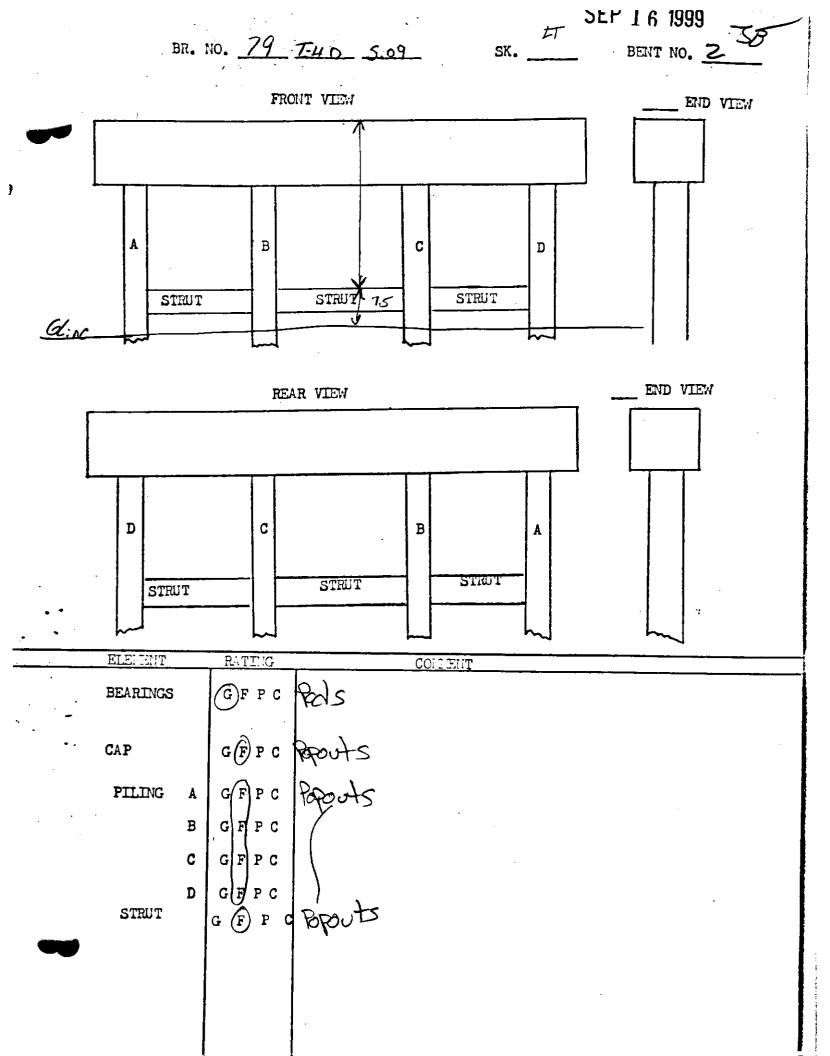


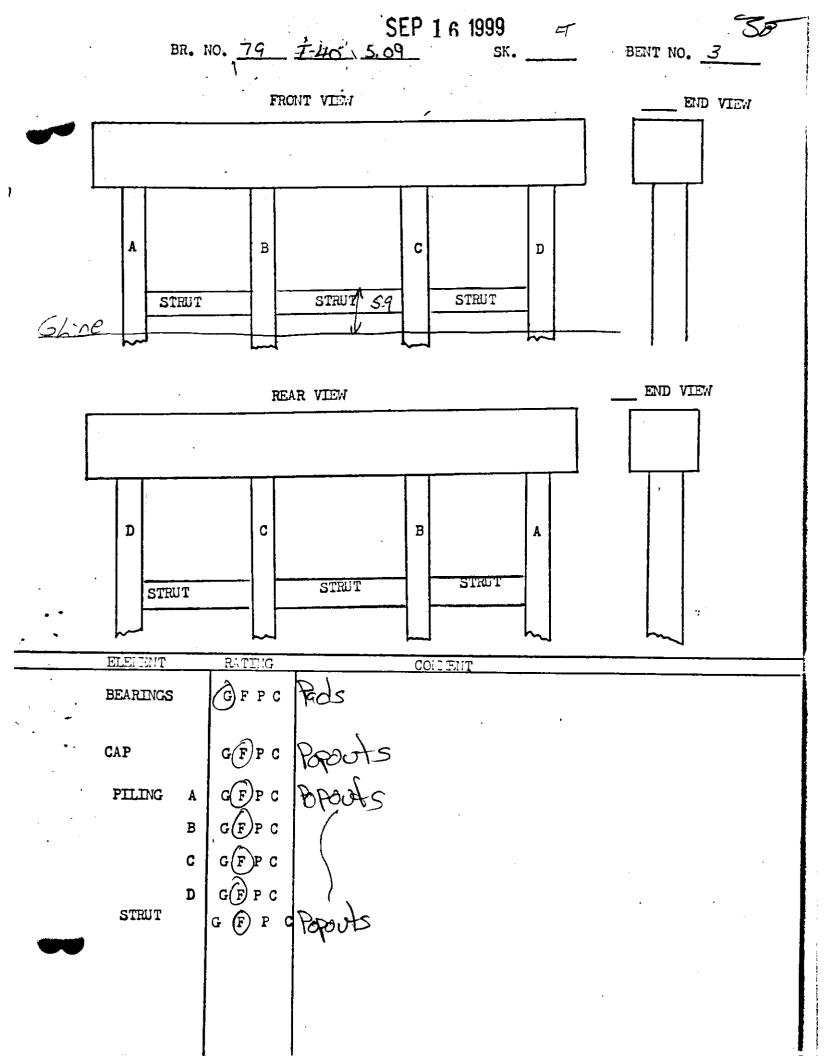
SEP 1 6 1999 BRIDGE NO 79 T-40 5.09 L ABUT. NO. /  $\Box$ LOOKING <u>BACK</u> 3.8 EXP. 3.0 Small FIGHT VIEW 0,8 (1) Emb. Wpsherl (0.8) belin COP (2.0) UNIDO-NEDMCAP COMMENT ELEMENT RATING LIGHTINEOHATTAN (PODS) SCRTT. Popours GF P C BEARING Finle CRACKS CAP С G С WINGS · SER # 1 & photo scott. N/ Rip Rop SECTLE 2 G F /P) C MBANKMENT F C DFAVRETTROP GFPC VEG.

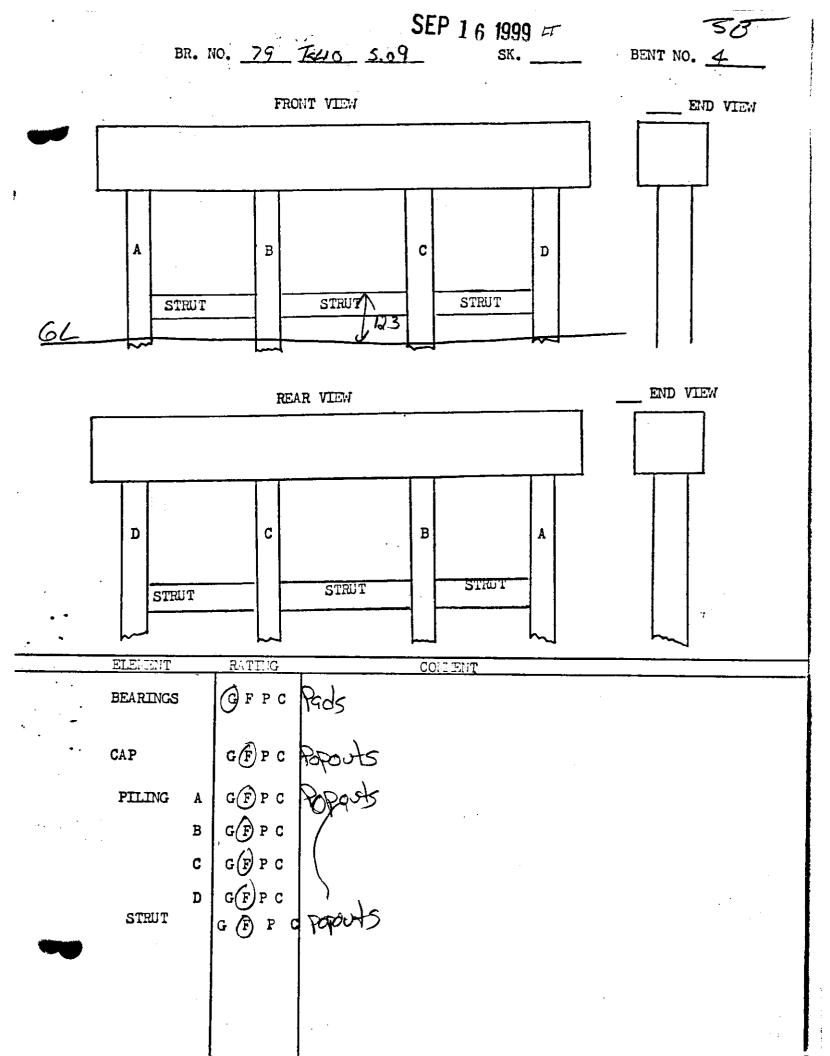


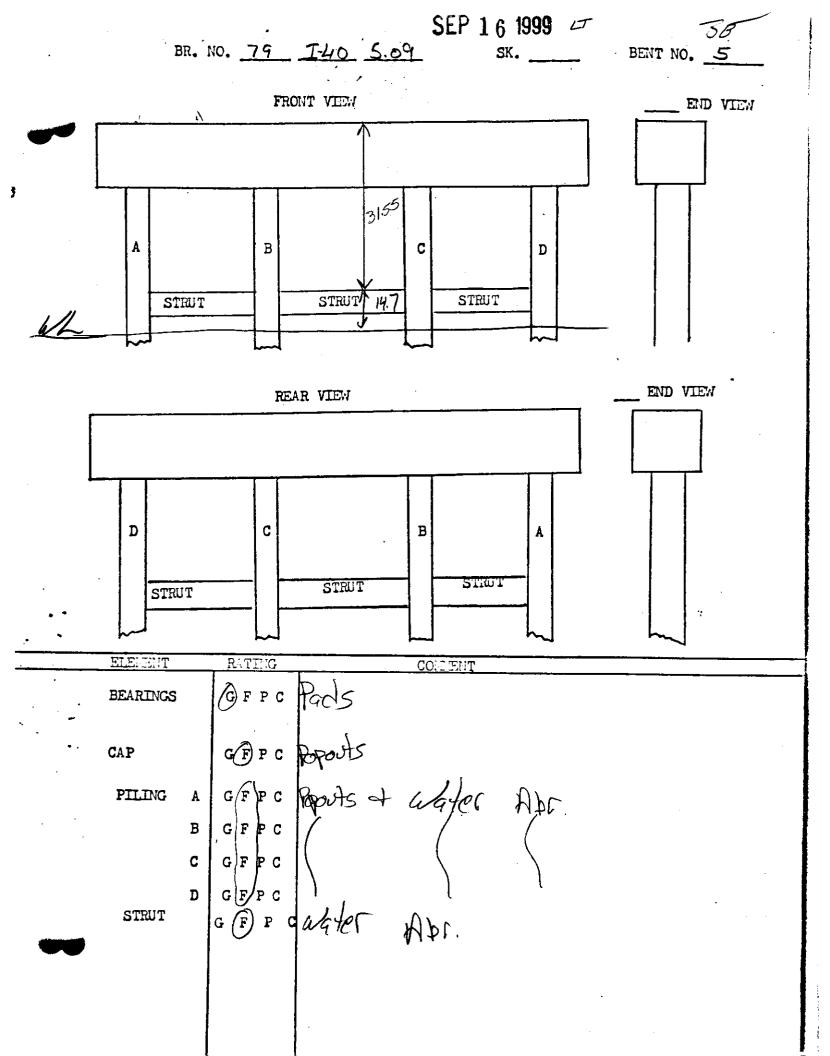


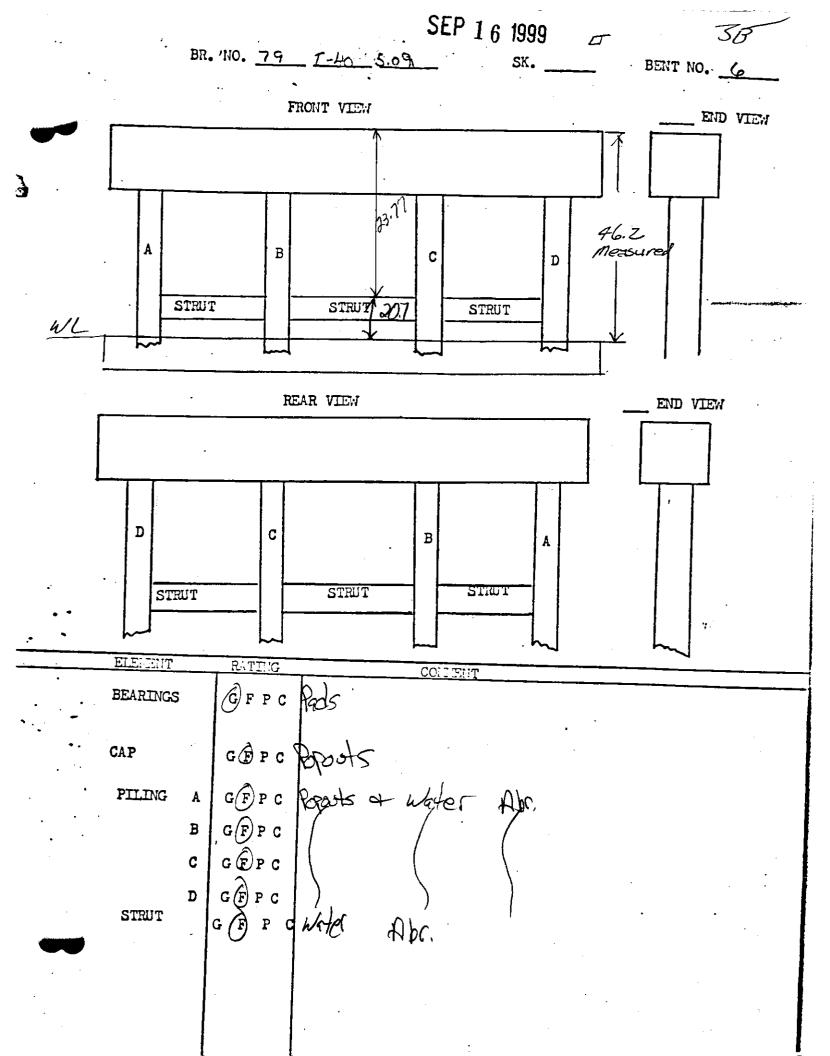




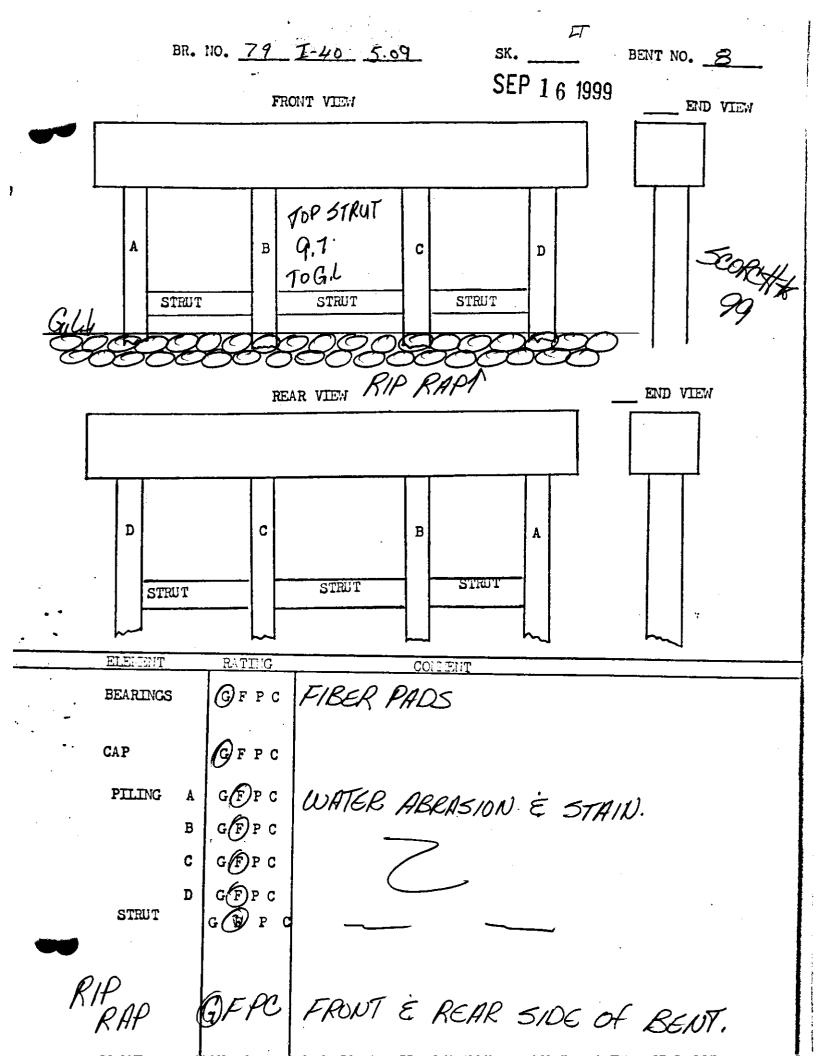


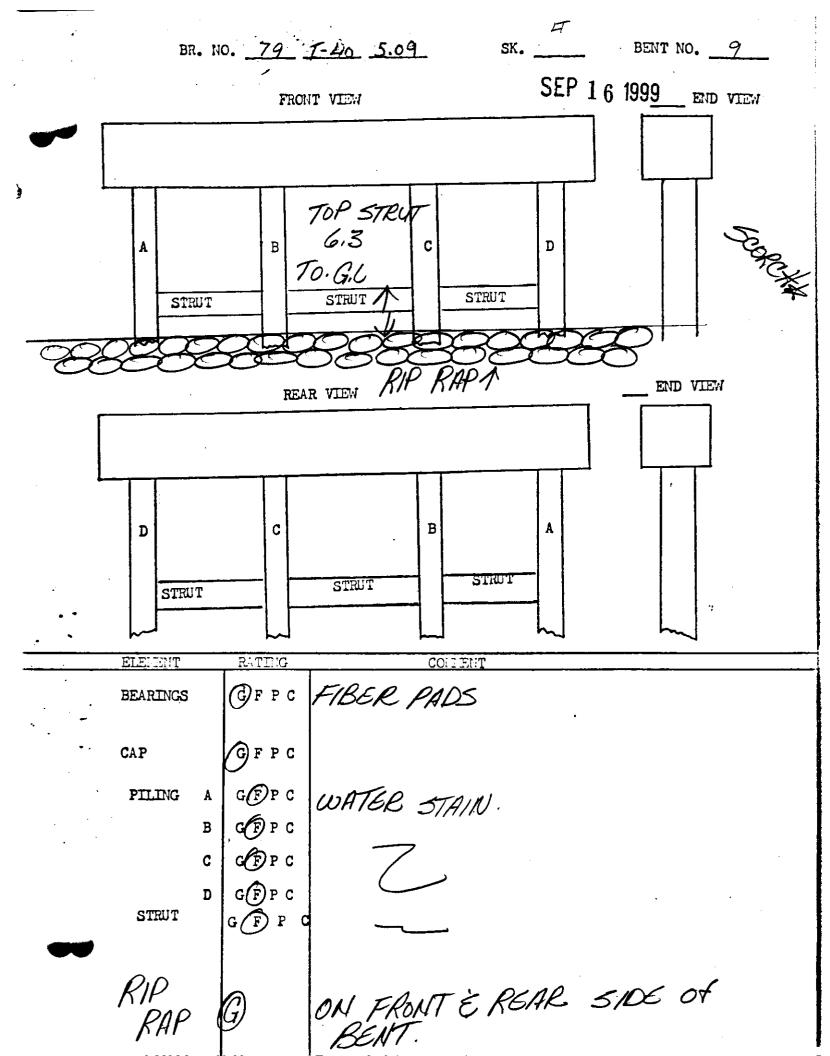






T BR. NO. 79 1-40 5.09 SK. ____ BENT NO. 7 SEP 1 6 1999 END VIEW FRONT VIEW Eoroxy 99 TOP STRUT 8.5' С В D A TO G.L STRUT STRUT STRUT <u>GROUND</u> LINE 1 RIP-RAP. END VIEW REAR VIEW 例 В D STRUT STRUT STRUT 7 ELEPENT RATIG COLLENT **F**FC FIBER BEARINGS ØF P C CAP GFPC PILING A ္ငြ 🗗 Р С HO LGHT WATER ABRASION É В GFPC С STAIN. GFPC D #O TYPICAL. GRPC STRUT AROUND FRONT & REAR SIDE QF PC RAP OF BENT.





BRIDGE NO 79 I-40 509 SEP 16 1999 ABUT. NO. 2 **L**T SCORCHA LOOKING <u>AHEAD</u> T,5 AUG RIP RA VIEW ELEMENT RATING COMMENT BEARING **(**C) F P C CAP P C G P C WINGS GFPC **EMBANKMENT** F PC G F P C GROWTH STABLELIZERE TIED TO TOP OF CAP & ATTACHED TO ALL C. I.B#S

 Federal ID#: 79100400060
 Page #: 1

 Location #.: 79-10040-0509-LL
 Print Date: 06/27/96

 Crossing...: WOLF RIVER
 *

 Project #..: 79007-3127-44
 Contract #: 6978

Subst Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
ABUT ABUT ABUT ABUT ABUT ABUT ABUT ABUT	1 1 1 1 1 1 1 1 1 1 1 1	1 1A 2 3 3A 4 5 5A 6 7 7A	14" Conc. 14" Conc.	17.35 20. 20. 20. 50. 45. 20. 20. 45. 20. 20. 20. 20.	39. 44. 37. 0. 83. 36. 49. 45. 57. 0. 0. 0.	06/11/76 06/11/76 06/11/76 06/12/76 04/08/76 05/24/76 06/12/76 06/15/76 06/12/76 06/12/76 06/12/76 06/12/76
ABUT ABUT ABUT ABUT ABUT ABUT ABUT	1 1 1 1 1 1	8 9 10 11 11A 12	14" Conc. 14" Conc. 14" Conc. 14" Conc. 14" Conc. 14" Conc. 14" Conc.	19. 20. 15.29 45. 20. 20. 16.25	50. 57. 36. 57. 69. 67.	06/14/76 06/14/76 05/28/76 06/14/76 06/14/76 06/14/76
	Avera	ge Pile	Length (ft)	= 25.1606		
ABUT ABUT ABUT ABUT ABUT ABUT ABUT ABUT	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<pre>14" Conc. 14" Conc.</pre>	55. 55. 55. 55. 55. 55. 55. 55. 55. 55.	0. 0. 55. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	11/19/76 11/19/76 11/17/76 11/19/76 11/19/76 11/19/76 11/19/76 11/19/76 11/19/76 11/20/76 11/20/76 11/20/76 11/20/76 11/20/76 11/18/76 11/18/76

Federal ID#: 79100400060	Page #: 2
Location #.: 79-10040-0509-LL	Print Date: 06/27/96
Crossing: WOLF RIVER	*
Project #: 79007-3127-44	Contract <b>#:</b> 6978

Subst Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
	Avera	ge Pile	Length (ft)	= 54.75		
BENT	1	1	14" Conc.	20.	53.	10/21/76
BENT	1	2	14" Conc.	20.	57.	10/21/76
BENT	1	3	14" Conc.	20.	45.	10/21/76
BENT	1	4	14" Conc.	20.	47.	10/21/76
BENT	1	5	14" Conc.	20.	55.	10/20/76
BENT	1	6	14" Conc.	20.	60.	10/24/76
BENT	1	7	14" Conc.	20.	75.	10/21/76
BENT	1	8	14" Conc.	20.	49.	10/21/76
BENT	1	9	14" Conc.	20.	67.	10/21/76
BENT	1	10	14" Conc.	20.	67.	10/21/76
BENT	1	11	14" Conc.	20.	0.	10/21/76
BENT	1	12	14" Conc.	20.	0.	10/21/76
BENT	1	13	14" Conc.	20.	0.	10/21/76
BENT	1	14	14" Conc.	20.	45.	10/21/76
BENT	1	15	14" Conc.	20.	54.	10/21/76
BENT	1	16	14" Conc.	20.	60.	10/21/76
BENT	1	17	14" Conc.	20.	92.	10/21/76
BENT	1	18	14" Conc.	20.	120.	10/21/76
BENT	1	19	14" Conc.	20.	95.	10/22/76
BENT	1	20	14" Conc.	20.	68.	10/21/76
BENT	1	21	14" Conc.	20.	67.	10/21/76
BENT	1	22	14" Conc.	20.	67.	10/21/76
BENT	1	23	14" Conc.	20.	64.	10/20/76
BENT	1	24	14" Conc.	20.	96.	10/21/76
BENT	1	25	14" Conc.	20.	88.	10/21/76
BENT	1	26	14" Conc.	20.	88.	10/21/76
BENT	1	27	14" Conc.	20.	68.	10/21/76
BENT	1	28	14" Conc.	20.	95.	10/22/76
BENT	1	29	14" Conc.	20.	71.	10/22/76
BENT	1	30	14" Conc.	20.	92.	10/22/76
BENT	1	31	14" Conc.	20.	90.	
BENT	1	32	14" Conc.	20.	102.	
BENT	1	33	14" Conc.	20.	90.	
BENT	1	34	14" Conc.	20.	92.	
BENT	1	35	14" Conc.	20.	82.	
BENT	1	36	14" Conc.	20.	91.	10/22/76

* 0. = No Data Available

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Location #.: 79-10040-	0509-LL Print Date: 06/27/96
Crossing: WOLF RIVE	R *
Project #: 79007-312	7-44 Contract #: 6978

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Subst: Name		Pile Number	Pile Size	In Place Length (ft)	*Bearing Drive (Tons) Date	, 
	Averag	e Pile	Length (ft)	= 20.		
BENT	2	1	14" Conc.	20.	82. 07/15/	
BENT	2	2	14" Conc.	20.	60. 07/15/	
BENT	2	3	14" Conc.	20.	72. 07/15/	
BENT	2	4	14" Conc.	20.	50. 07/15/	
BENT	2	5	14" Conc.	20.	44. 07/15/	
BENT	2	6	14" Conc.	20.	0. 07/15/	
BENT	2	7	14" Conc.	20.	54. 07/15/	
BENT	2	8	14" Conc.	20.	66. 07/15/	
BENT	2	9	14" Conc.	16.41	55. 07/15/	
BENT	2	10	14" Conc.	20.	49. 07/15/	
BENT	2	11	14" Conc.	20.	0. 07/15/	
BENT	2	12	14" Conc.	20.	0. 07/15/	
BENT	2	13	14" Conc.	20.	0. 07/14/	
BENT	2	14	14" Conc.	20.	55. 07/15/	
BENT	2	15	14" Conc.	20.	88. 07/14/	
BENT	2	16	- 14" Conc.	20.	104. 07/14/	
BENT	2	17	14" Conc.	20.	82. 07/14/	
BENT	2	18	14" Conc.	20.	81.9 07/12/	
BENT	2	19	14" Conc.	20.	65. 07/14/	
BENT	2	20	14" Conc.	20.	52. 07/14/	
BENT	2	21	14" Conc.	20.	64. 07/13/	
BENT	2	22	14" Conc.	20.	64. 07/14/	
BENT	2	23	14" Conc.	20.	66. 07/14/	
BENT	2	24	14" Conc.	20.	71. 07/14/	
BENT	2	25	14" Conc.	20.	88. 07/21/	
BENT	2	26	14" Conc.	20.	84. 07/21/	
BENT	2	27	14" Conc.	20.	79. 07/21/	
BENT	2	28	14" Conc.	20.	66. 07/15/	
BENT	2	29	14" Conc.	20.	79.07/15/	
BENT	2	30	14" Conc.	20.	83. 07/15/	
BENT	2	31	14" Conc.	20.	91. 07/15/	
BENT	2	32	14" Conc.	20.	75. 07/16/	
BENT	2	33	14" Conc.	20.	74. 07/15/	
BENT	2	34	14" Conc.	17.25	92. 07/21/	
BENT	2	35	14" Conc.	19.33	51. 07/19/	
BENT	2	36	14" Conc.	20.	0. 07/19/	
BENT	2	37	14" Conc.	20.	0. 07/23/	/76

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 Location #.: 79-I0040-0509-LL
 Print Date: 06/27/96

 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
 Contract #: 6978

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Subst Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT BENT BENT BENT BENT BENT BENT BENT	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	38 39 40 41 42 43 44 45 46 47 48	14" Conc. 14" Conc.	20. 20. 17. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	0. 0. 0.	07/23/76 07/24/76 07/20/76 07/20/76 07/20/76 07/20/76 07/20/76 07/20/76 07/20/76 07/20/76 07/20/76
DENI	_		Length (ft)			
BENT BENT BENT BENT BENT BENT BENT BENT	3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 3 4 5 6 7 8 9 10	14" Conc. 14" Conc.	45. 45. 45. 45. 45. 45. 45. 45. 45. 45.	72. 81. 56. 73. 89. 76. 81. 65. 55. 0.	12/09/76 12/09/76 12/08/76 12/05/76 12/05/76 12/06/76 12/08/76 12/08/76 12/10/76
BENT BENT BENT BENT BENT BENT BENT BENT	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	11 12 13 14 15 16 17 18 19 20	<pre>14" Conc. 14" Conc.</pre>	45. 45. 45. 45. 45. 45. 45. 45. 45. 45.	0. 0. 100. 100. 67. 104. 72. 165. 55. 54.	12/10/76 12/13/76 12/08/76 12/07/76 12/07/76 12/08/76 12/03/76 12/07/76 12/07/76
BENT BENT BENT BENT BENT BENT	3 3 3 3 3 3 3	21 22 23 24 25 26	14" Conc. 14" Conc. 14" Conc. 14" Conc. 14" Conc. 14" Conc.	45. 45. 45. 45. 45. 42.	85. 54. 60. 52. 72. 62.	12/10/76 12/10/76 12/10/76

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 Location #.: 79-10040-0509-LL
 Print Date: 06/27/96

 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
 Contract #: 6978

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Subst: Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT BENT BENT	3 3 3	27 28 29	14" Conc. 14" Conc. 14" Conc.	45. 44. 44.	61. 62. 101.	01/25/77 01/22/77 01/22/77
BENT	3	30	14" Conc.	45. 45.	97. 68.	01/24/77 01/22/77
BENT BENT	3	31 32	14" Conc. 14" Conc.	45.	108.	01/22/77
BENT	3 3 3 3	33	14" Conc.	45.	90.	01/24/77
BENT	3	34	14" Conc.	45.	86.	01/24/77
BENT	3	35	14" Conc.	45.	91.	01/24/77
BENT	3	36	14" Conc.	45.	95.	01/24/77
BENT	3	37	14" Conc.	45.	80.	01/25/77 01/27/77
BENT	3 3 3 3	38	14" Conc.	45. 45.	100. 0.	01/27/77
BENT	3	39	14" Conc. 14" Conc.	45.	76.	01/27/77
BENT BENT	3	40 41	14" Conc.	52.	51.	01/05/77
BENT	3	42	14" Conc.	45.	90.	01/21/77
BENT	3	43	14" Conc.	45.	85.	01/21/77
BENT	3	44	14" Conc.	45.	72.	01/21/77
BENT	3	45	14" Conc.	44.	88.	01/21/77
BENT	3	46	14" Conc.	45.	131.	01/25/77
BENT	3	47	14" Conc.	43.	105.	01/25/77 01/25/77
BENT	3	48	14" Conc.	37.	103.	01/25///
	Avera	ge Pile	Length (ft)	= 44.8542	··	
BENT	4	1	14" Conc.	44.	94.	10/17/76
BENT	4	2	14" Conc.	43.	42.	10/11/76 10/12/76
BENT	4	3	14" Conc.	43.5	0. 100.	10/11/76
BENT	4	4	14" Conc.	43. 43.	0.	10/11/76
BENT	4	5 6	14" Conc. 14" Conc.	43.	ů.	10/11/76
BENT	4 4	8 7	14" Conc.	43.	0.	10/12/76
BENT	4 4	8	14" Conc.	43.	0.	10/11/76
BENT BENT	4	9	14" Conc.	43.	0.	10/11/76
BENT	4	10	14" Conc.	43.	0.	10/12/76
BENT	4	11	14" Conc.	43.8	0.	
BENT	4	12	14" Conc.	43.	0.	
BENT	4	13	14" Conc.	43.	0.	
BENT	4	14	14" Conc.	43.	0.	
BENT	4	15	14" Conc.	43.	0.	10/11/76

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 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
 Contract #: 6978

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Subst	ructure	Pile	Pile	In Place	*Bearing	Drive
Name	Number	Number	Size	Length (ft)	(Tons)	Date
						10/00/76
BENT	4	16	14" Conc.	43.	0.	10/08/76
BENT	4	17	14" Conc.	42.	0.	10/08/76
BENT	4	18	14" Conc.	42.3	0.	10/08/76
BENT	4	19	14" Conc.	42.	0.	10/11/76
BENT	4	20	14" Conc.	43.	0.	10/08/76
BEN'T	4	21	14" Conc.	42.8	0.	10/08/76
BENT	4	22	14" Conc.	43.	0.	10/11/76
BENT	4	23	14" Conc.	43.	0.	10/11/76
BENT	4	24	14" Conc.	43.	0.	10/11/76
BENT	4	25	14" Conc.	42.	0.	09/27/76
BENT	4	26	14" Conc.	42.	0.	09/27/76
BENT	4	27	14" Conc.	42.	0.	09/28/76
BENT	4	28	14" Conc.	41.	0.	09/17/76
BENT	4	29	14" Conc.	43.	142.	09/24/76
BENT	4	30	14" Conc.	41.8	0.	09/27/76
BENT	4	31	14" Conc.	41.	0.	09/27/76
BENT	4	32	14" Conc.	35.	0.	09/28/76
BENT	4	33	14" Conc.	42.	0.	09/27/76
BENT	4	34	14" Conc.	43.	0.	09/27/76
BENT	4	35	14" Conc.	43.	0.	09/27/76
BENT	4	36	14" Conc.	43.	0.	09/25/76
BENT	4	37	14" Conc.	43.	0.	09/25/76
BENT	4	38	14" Conc.	43.	0.	09/25/76
BENT	4	39	14" Conc.	43.	0.	09/25/76
BENT	4	40	14" Conc.	43.	0.	09/25/76
BENT	4	41	14" Conc.	25.	22.	09/15/76
BENT	4	42	14" Conc.	43.	0.	09/24/76
BENT	4	43	14" Conc.	43.	0.	09/25/76
BENT	4	44	14" Conc.	43.	0.	09/25/76
BENT	4	45	14" Conc.	43.	0.	09/25/76
BENT	4	46	14" Conc.	43.	0.	09/25/76
BENT	4	47	14" Conc.	43.	0.	09/25/76
BENT	4	48	14" Conc.	43.	0.	09/25/76
2011						
	Avera	age Pile	Length (ft	) = 42.2542		
BENT	5	1	14" Conc.	45.		12/14/76
BENT	5	2	14" Conc.	45.		12/14/76
BENT	5	3	14" Conc.	45.		12/14/76
BENT	5	4	14" Conc.	45.	0.	12/13/76
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* 0. = No Data Available

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 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
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Subst: Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT	5	5	14" Conc.	45.	0.	12/14/76
BENT	5	6	14" Conc.	45.	0.	12/14/76
BENT	5	7	14" Conc.	45.	0.	12/14/76
BENT	5	8	14" Conc.	45.	0.	12/14/76
BENT	5	9	14" Conc.	45.	0.	12/14/76
BENT	5	10	14" Conc.	45.	0.	12/14/76
BENT	5	11	14" Conc.	45.	0.	12/14/76
BENT	5	12	14" Conc.	45.	0.	12/14/76
BENT	5	13	14" Conc.	45.	0.	12/13/76
BENT	5	14	14" Conc.	45.	0.	12/13/76
BENT	5	15	14" Conc.	45.	0.	12/14/76
BENT	5	16	14" Conc.	45.	0.	12/12/76
BENT	5	17	14" Conc.	43.	0.	12/12/76
BENT	5	18	14" Conc.	45.	0.	12/04/76
BENT	5	19	14" Conc.	45.	0.	12/13/76
BENT	5	20	14" Conc.	45.	0.	12/13/76
BENT	5	21	14" Conc.	45.	0.	12/13/76
BENT	5	22	14" Conc.	45.	0.	12/13/76
BENT	5	23	14" Conc.	45.	0.	12/13/76
BENT	5	24	14" Conc.	45.	0.	12/13/76
BENT	5	25	14" Conc.	43.	0.	11/17/76
BENT	5	26	14" Conc.	43.	0.	11/17/76
BENT	5	27	14" Conc.	43.	0.	11/17/76
BENT	5	28	14" Conc.	43.	0.	11/15/76
BENT	5	29	14" Conc.	42.	0.	11/15/76
BENT	5	30	14" Conc.	42.	0.	11/15/76
BENT	5	31	14" Conc.	43.	0.	11/15/76
BENT	5	32	14" Conc.	42.	0.	11/15/76
BENT	5	33	14" Conc.	43.	0.	11/15/76
BENT	5	34	14" Conc.	39.	0.	11/16/76
BENT	5	35	14" Conc.	42.	0.	
BENT	5	36	14" Conc.	39.	0.	
BENT	5	37	14" Conc.	42.	0.	
BENT	5	38	14" Conc.	42.		11/15/76
BENT		39	14" Conc.	40.		11/15/76
BENT	5 5	40	14" Conc.	43.	0.	
BENT	5	41	14" Conc.	41.	0.	
BENT	5	42	14" Conc.	42.	0.	
BENT	5	43	14" Conc.	43.	0.	
BENT	5	44	14" Conc.	42.	0.	11/13/76

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Crossing: WOLF RIVER	*
Project #: 79007-3127-44	Contract <b>#: 6978</b>

Subst Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT	5	 45	14" Conc.	42.	0.	11/13/76
BENT	5	46	14" Conc.	43.	0.	11/13/76
BENT	5	47	14" Conc.	42.	0.	11/13/76
BENT	5	48	14" Conc.	43.	0.	11/13/76
	Avera	ge Pile	Length (ft)	= 43.4792		
BENT	6	1	14" Conc.	55.	0.	02/10/77 02/10/77
BENT	6	2	14" Conc.	55.	0.	
BENT	6	3	14" Conc.	55.	0.	02/11/77 02/11/77
BENT	6	4	14" Conc.	51.	0.	02/07/77
BENT	6	5	14" Conc.	55.	116.	02/09/77
BENT	6	6	14" Conc.	55.	0.	02/09/77
BENT	6	7	14" Conc.	_55	0.	02/09/77
BENT	6	8	14" Conc.	54.7	0.	02/09/77
BENT	6	9	14" Conc.	45.5	0.	02/09/77
BENT	6	10	14" Conc.	55.	0.	02/09/77
BENT	6	11	14" Conc.	55.	0.	02/09/77
BENT	6	12	14" Conc.	55.	0.	02/12/77
BENT	6	13	14" Conc.	28.	0.	02/12/77
BENT	6	14	14" Conc.	47.	0. 0.	02/12/77
BENT	6	15	14" Conc.	32.	0.	02/14/77
BENT	6	16	14" Conc.	55.	0.	02/14/77
BENT	6	17	14" Conc.	22.6	0.	02/14/77
BENT	6	18	14" Conc.	54.	0.	02/14/77
BENT	6	19	14" Conc.	54.	0.	02/14/77
BENT	6	20	14" Conc.	54.	0.	02/14/77
BENT	6	21	14" Conc.	54.	0.	02/14/77
BENT	6	22	14" Conc.	54.	0.	
BENT	6	23	14" Conc.	54.	0.	02/14/77
BENT	6	24	14" Conc.	54.	0.	
BENT	6	25	14" Conc.	55.	0.	
BENT	6	26	14" Conc.	55.	0.	
BENT	6	27	14" Conc.	55.		
BENT	б	28	14" Conc.	54.9	0. 0.	· · · · · · · · · · · · · · · · · · ·
BENT	6	29	14" Conc.	54.9	0.	
BENT	6	30	14" Conc.	55.	0.	
BENT	6	31	14" Conc.	54.7	0.	· · · · · · · · · · · · · · · · · · ·
BENT	6	32	14" Conc.	54.6	0.	
BENT	6	33	14" Conc.	54.4	0.	02/03/11

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 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
 Contract #: 6978

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Subst: Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT	6	34	14" Conc.	54.7	0.	02/10/77
BENT	6	35	14" Conc.	54.6	0.	02/10/77
BENT	6	36	14" Conc.	54.7	Ο.	02/10/77
BENT	6	37	14" Conc.	25.	0.	02/12/77
BENT	6	38	14" Conc.	25.	0.	02/12/77
BENT	6	39	14" Conc.	25.	0.	02/12/77
BENT	6	40	14" Conc.	25.	0.	02/12/77
BENT	6	41	14" Conc.	25.	0.	02/12/77
BENT	6	42	14" Conc.	25.	0.	02/12/77
BENT	6	43	14" Conc.	23.	0.	02/12/77
BENT	6	44	14" Conc.	23.	0.	02/12/77
BENT	6	45	14" Conc.	25.	0.	02/11/77
BENT	6	46	14" Conc.	21.	0.	02/12/77
BENT	6	47	14" Conc.	25.	0.	02/12/77
BENT	6	48	14" Conc.	25.	0.	02/12/77
BENT	6	49	14" Conc.	25.	0.	02/12/77
BENT	6	50	14" Conc.	25.	0.	02/12/77
BENT	6	51	14" Conc.	23.8	0.	02/14/77 02/14/77
BENT	6	52	14" Conc.	25.	0.	
BENT	6	53	14" Conc.	23.	0.	02/14/77 02/14/77
BENT	6	54	14" Conc.	25.	0.	02/14///
	Avera	ge Pile	Length (ft)	= 42.687		
BENT	7	1	14" Conc.	20.	0.	10/08/76
BENT	7	2	14" Conc.	20.	0.	10/08/76
BENT	7	3	14" Conc.	20.	0.	10/08/76
BENT	7	4	14" Conc.	20.	0.	10/07/76
BENT	7	5	14" Conc.	20.	0.	10/07/76
BENT	7	6	14" Conc.	55.	35.	10/04/76
BENT	7	7	14" Conc.	20.	0.	10/07/76
BENT	7	8	14" Conc.	20.	0.	10/07/76
BENT	7	9	14" Conc.	20.	0.	10/07/76
BENT	7	10	14" Conc.	20.		10/07/76
BENT	7	11	14" Conc.	20.	0.	10/07/76
BENT	7	12	14" Conc.	20.	0.	10/07/76
BENT	7	13	14" Conc.	20.	0.	10/07/76
BENT	7	14	14" Conc.	20.	0.	10/07/76
BENT	7	15	14" Conc.	20.	0.	
BENT	7	16	14" Conc.	20.	0.	10/07/76

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 Crossing...: WOLF RIVER
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 Project #..: 79007-3127-44
 Contract #: 6978

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Subst	ructure I	Pile	Pile	In Place	*Bearing	Drive
Name		Number	Size	Length (ft)	(Tons)	Date
BENT	7	17	14" Conc.	20.	0.	10/07/76
BENT	7	18	14" Conc.	20.	0.	10/07/76
BENT	7	19	14" Conc.	20.	0.	10/07/76
BENT	7	20	14" Conc.	20.	0.	10/07/76
BENT	7	21	14" Conc.	20.	0.	10/07/76
BENT	7	22	14" Conc.	20.	0.	10/07/76
BENT	7	23	14" Conc.	20.	0.	10/07/76
BENT	7	24	14" Conc.	20.	0.	10/07/76
BENT	7	25	14" Conc.	20.	0.	10/06/76
BENT	7	26	14" Conc.	18.	0.	10/05/76
BENT	7	27	14" Conc.	20.	0.	10/05/76
BENT	7	28	14" Conc.	20.	0.	10/05/76
BENT	7	29	14" Conc.	20.	0.	10/05/76
BENT	7	30	14" Conc.	55.	35.	10/04/76
BENT	7	31	14" Conc.	20.	0.	10/05/76
BENT	7	32	14" Conc.	20.	0.	10/05/76 10/05/76
BENT	7	33	14" Conc.	20.	0.	10/06/76
BENT	7	34	14" Conc.	20.	0.	10/05/76
BENT	7	35	14" Conc.	20.	0.	10/06/76
BENT	7	36	14" Conc.	20.	0.	10/07/76
BENT	7	37	14" Conc.	20.	0.	10/07/76
BENT	7	38	14" Conc.	20.	0.	10/07/76
BENT	7	39	14" Conc.	20.	0. 0.	10/07/76
BENT	7	40	14" Conc.	20.	0.	10/07/76
BENT	7	41	14" Conc.	20.	0.	10/07/76
BENT	7	42	14" Conc.	20.	0.	10/07/76
BENT	7	43	14" Conc.	20.	0.	10/07/76
BENT	7	44	14" Conc.	20.	0.	10/07/76
BENT	7	45	14" Conc.	20.	0.	10/07/76
BENT	7	46	14" Conc.	20.	0.	10/07/76
BENT	7	47	14" Conc.	20.	0.	10/07/76
BENT	7	48	14" Conc.	20.	0.	10/0///0
	Averag	e Pile	Length (ft)	= 21.4167	<u>_</u>	
BENT	8	1	14" Conc.	45.	0.	
BENT	8	2	14" Conc.	45.	0.	
BENT	8	3	14" Conc.	45.	0.	
BENT	8	4	14" Conc.	39.	0.	
BENT	8	5	14" Conc.	55.	32.	09/28/76
	•	-				

* 0. = No Data Available

 Federal ID#: 79I00400060
 Page #: 11

 Location #.: 79-I0040-0509-LL
 Print Date: 06/27/96

 Crossing...: WOLF RIVER
 *

 Project #..: 79007-3127-44
 Contract #: 6978

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Gubet		Pile	Pile	In Place	*Bearing	Drive
Name	ructure Number	Number	Size	Length (ft)	(Tons)	Date
BENT	8	6	14" Conc.	37.	0.	09/30/76 09/27/76
BENT	8	7	14" Conc.	37.	0. 0.	09/28/76
BENT	8	8	14" Conc.	38.	0.	09/29/76
BENT	8	9	14" Conc.	38.	0.	10/01/76
BENT	8	10	14" Conc.	35.5	0.	10/01/76
BENT	8	11	14" Conc.	45.	0.	10/01/76
BENT	8	12	14" Conc.	48.	0.	10/01/76
BENT	8	13	14" Conc.	42.	0.	10/01/76
BENT	8	14	14" Conc.	45.	0.	10/01/76
BENT	8	15	14" Conc.	45.	0.	09/30/76
BENT	8	16	14" Conc.	40.3	0.	09/30/76
BENT	8	17	14" Conc.	40.	0.	09/30/76
BENT	8	18	14" Conc.	40.	0.	10/04/76
BENT	8	19	14" Conc.	41. 41.	0.	09/30/76
BENT	8	20	14" Conc.	41.	0.	09/30/76
BENT	8	21	14" Conc.	41.	0.	10/01/76
BENT	8	22	14" Conc.	29.	0.	10/02/76
BENT	8	23	14" Conc.	45.	ů.	10/02/76
BENT	8	24	14" Conc.	44.	ů.	09/23/76
BENT	8	25	14" Conc.	46.	ů.	09/23/76
BENT	8	26	14" Conc.	50.	0.	09/23/76
BENT	8	27	14" Conc.	41.	ů.	09/22/76
BENT	8	28	14" Conc.	43.	0.	09/22/76
BENT	8	29	14" Conc. 14" Conc.	15.	35.	09/13/76
BENT	8	30	14" Conc.	35.	17.	09/15/76
BENT	8	31	14" Conc.	40.	0.	09/22/76
BENT	8	32 33	14 Conc.	42.8	0.	09/22/76
BENT	8	34	14" Conc.	45.	0.	09/23/76
BENT	8	34	14" Conc.	29.	0.	09/23/76
BENT	8	35	14" Conc.	45.	0.	09/23/76
BENT	8 8	37	14" Conc.	50.	0.	09/23/76
BENT	8	38	14" Conc.	50.	0.	09/22/76
BENT	_	39	14" Conc.	49.	0.	09/22/76
BENT	8	40	14" Conc.	49.		09/22/76
BENT	8	40 41	14" Conc.	55.		09/16/76
BENT	8	41 42	14" Conc.	50.	0.	
BENT	8		14 Conc.	42.	0.	
BENT	8	43 44	14 Conc.	50.	Ŭ.	
BENT	8	44 45	14 Conc.	50.	0.	
BENT	8	40	14 CONC.	501		

 Federal ID#: 79100400060
 Page #: 12

 Location #.: 79-I0040-0509-LL
 Print Date: 06/27/96

 Crossing...: WOLF RIVER
 *

 Project #..: 79007-3127-44
 Contract #: 6978

Subst: Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT	8	46	14" Conc.	45.4	0.	09/23/76
BENT	8	47	14" Conc.	48.	0.	09/23/76
BENT	8	48	14" Conc.	50.	0.	09/23/76
	U					
	Avera	ge Pile	Length (ft)	= 42.9792		
BENT	9	1	14" Conc.	55.	0.	12/17/76
BENT	9	2	14" Conc.	50.	0.	12/17/76
BENT	9	3	14" Conc.	51.	0.	12/17/76
BENT	9	4	14" Conc.	48.	0.	12/17/76 12/15/76
BENT	9	5	14" Conc.	55.	0.	12/15/76
BENT	9	6	14" Conc.	47.	0.	12/15/76
BENT	9	7	14" Conc.	49.	0.	12/09/76
BENT	9	8	14" Conc.	55.	44.	12/09/76
BENT	9	9	14" Conc.	55.	0. 0.	12/17/76
BENT	9	10	14" Conc.	50.	0.	12/17/76
BENT	9	11	14" Conc.	50.	0.	12/12/76
BENT	9	12	14" Conc.	40.	0.	12/12/76
BENT	9	13	14" Conc.	50.	0.	12/12/76
BENT	9	14	14" Conc.	50.		12/18/76
BENT	9	15	14" Conc.	48.	0. 0.	12/16/76
BENT	9	16	14" Conc.	51.	0.	12/17/76
BENT	9	17	14" Conc.	48.	0.	12/18/76
BENT	9	18	14" Conc.	52.	0.	12/18/76
BENT	9	19	14" Conc.	54.	0.	12/18/76
BENT	9	20	14" Conc.	51.	0.	12/18/76
BENT	9	21	14" Conc.	48.	0.	12/18/76
BENT	9	22	14" Conc.	48.	0.	12/18/76
BENT	9	23	14" Conc.	47.	0.	12/18/76
BENT	9	24	14" Conc.	47.	0.	
BENT	9	25	14" Conc.	55.	0.	
BENT	9	26	14" Conc.	55.	0.	11/01/76
BENT	9	27	14" Conc.	55.	0.	10/30/76
BENT	9	28	14" Conc.	55.		· · · · · ·
BENT	9	29	14" Conc.	55.	0. 64.	
BENT	9	30	14" Conc.	55.	64. 0.	
BENT	9	31	14" Conc.	55.		
BENT	9	32	14" Conc.	55.	0.	
BENT	9	33	14" Conc.	55.	0.	
BENT	9	34	14" Conc.	55.	0.	11/01//0

Federal ID#: 79I00400060	Page #: 13
Location #.: 79-10040-0509-LL	Print Date: 06/27/96
Crossing: WOLF RIVER	*
Project #: 79007-3127-44	Contract #: 6978

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Subst: Name	ructure Number	Pile Number	Pile Size	In Place Length (ft)	*Bearing (Tons)	Drive Date
BENT	9	35	14" Conc.	55. 55.	0. 0.	11/01/76 11/01/76
BENT	9 9	36 37	14" Conc. 14" Conc.	50.	0.	11/03/76
BENT BENT	9	38	14" Conc.	54.	0.	11/03/76
BENT	9	39	14" Conc.	53.	0.	11/02/76
BENT	9	40	14" Conc.	55. 55.	0. 0.	10/30/76 10/30/76
BENT BENT	9 9	41 42	14" Conc. 14" Conc.	55.	<u></u> .	10/30/76
BENT	9	43	14" Conc.	55.	0.	10/30/76
BENT	9	44	14" Conc.	55.	0. 0.	10/30/76 10/30/76
BENT	9	45 46	14" Conc. 14" Conc.	51. 51.	0.	10/31/76
BENT BENT	9 9	40	14" Conc.	53.	0.	11/03/76
BENT	9	48	14" Conc.	55.	0.	11/03/76
	Avera	ge Pile	Length (ft)	= 52.1042		

* 0. = No Data Available

# SEP 1 6 1999

BRIDGE NO. 79-140-5.09

E.B.L.

Pile B = Bent 148 piles drivenSize 1 = 14' x 14'Original pile length 20'Test pile length 15'Min. req. bearing ton = 85Test piles were 5 & 29Min. req. bearing ton for test pile = 85

Pile C = Bent 264 piles drivenSize 1 = 14' x 14'Original pile length 20'Test pile length 20'Min. req. bearing ton = 54Test piles were 7 & 39Min. req. bearing ton for test pile = 85

Pile D = Bent 364 piles drivenSize 1 = 14' x 14'Original pile length 45' & 55'Test pile length 55'Min. req. bearing ton = 54Test piles were 7 & 39Min. req. bearing ton for test pile = 85

Pile E = Bent 464 piles drivenSize 1 = 14' x 14'Original pile length 50' & 55'Test pile length 55'Min. req. bearing ton = 57Test piles were 7 & 39Min. req. bearing ton for test pile = 90

Pile F = Bent 580 piles drivenSize 1 = 14' x 14'Original pile length 1-48 = 35'Test pile length 55'49-80 = 40'Test piles were 40' & 72'Min. req. bearing ton = Not Listed<br/>Min. req. bearing ton for test pile = 80

Pile G = Bent 660 piles drivenSize 1 = 14' x 14'Original pile length 50' & 55'Test pile length 55'Min. req. bearing ton = 65Test piles were 29 & 53Min. req. bearing ton for test pile = 95

Pile H = Bent 772 piles drivenSize 1 = 14' x 14'Original pile length 1-36 = 45'Test pile length 55'37-72 = 25'Test piles were 29 & 65Min. req. bearing ton = Not ListedMin. req. bearing ton for test pile = 85

# SEP 1 6 1999

Pile I = Bent 872 piles drivenSize 1 = 14' x 14'Original pile length 45' & 50'Test pile length 55'Min_req. bearing ton = 58Test piles were 29 & 68Min. req. bearing ton for test pile = 85

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Pile JA = Bent 960 piles drivenSize 1 = 14' x 14'Original pile length 20'Test pile length 30'Min. req. bearing ton = 30Test piles were 5 & 23Min. req. bearing ton for test pile = Not listed

Pile KA = Bent 1036 piles drivenSize 1 = 14' x 14'Original pile length 30'Test pile length 55'Min. req. bearing ton = 65Test piles were 5 & 23Min. req. bearing ton for test pile = 95

Pile JB & Ramp L = Bent 1124 piles drivenSize 1 = 14' x 14'Original pile length 25'Test pile length 25,30, & 15Min. req. bearing ton = Not listedTest piles were 5, 12, & 13Min. req. bearing ton for test pile = 75

Pile KB & Ramp L = Bent 1224 piles drivenSize 1 = 14' x 14'Original pile length 25'Test pile length 55Min. req. bearing ton = 51Test pile was 13Min. req. bearing ton for test pile = 75

Pile LA = Abut. 215 piles drivenSize 1 = 14' x 14'Original pile length 20'Test pile length 55Min. req. bearing ton = 44Test piles were 3 & 13Min. req. bearing ton = 65

Pile LB = Abut. 39 piles drivenSize 1 = 14' x 14'Original pile length 20'Test pile length 55Min. req. bearing ton = 44Test pile was 5Min. req. bearing ton for test pile = 65

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SHEET 1 OF 2

TENNESSEE

Bids to be Received until 10:00 A.M. on June 14, 1991

### DESCRIPTION OF WORK

In the State of Tennessee, in the County of Shelby: consisting of the Contract Rip-Rap Installation in <u>Shelby County on I-</u> <u>40-5.09</u> left and <u>right over Wolf</u> <u>River</u>.

Project Ref. No.	Project No.			
	79007-4165-04	Road _	0.00	_ Miles
		Bridge _	0.00	_ Miles
County <u>Shelby</u>		TOTAL _	0.00	_ Miles

ESTIMATE OF QUANTITIES AND SCHEDULE OF PRICES (Sequence Numbers are for Departmental Use Only)

STATI	E		HEET 2 ROJECT	OF 2	NESS:
		C	OUNTY :	Shelby	
ITEM & SEQ. NO. ********	UNIT MEAS AND QNTY.	(SEO, NO, FOR DEPT USE O	NLY)	UNIT PRICE	AMOUN:
203-01	CU. YD. 4500	ROAD & DRAINAGE EXCAVATION(UNCLASS)	LARS	~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
20			ENTS		
209-06	BALE 200	BALED HAY OR STRAW EROSION CHECKS @ DOLI	LARS		
30			ENTS		
209-08	L.F. 400	TEMPORARY SILT FENCES @ DOLL			
40			INTS	-	
709-05.08	TONS 1765	MACHINED RIP-RAP [CLASS B] @ DOLL	ARS		
50	•		NTS		•
712-01	L.S. 1	TRAFFIC CONTROL @ DOLL			
60			NTS		
717-01	L.S. 1	MOBILIZATION @DOLLA			<del></del>
70			NTS		

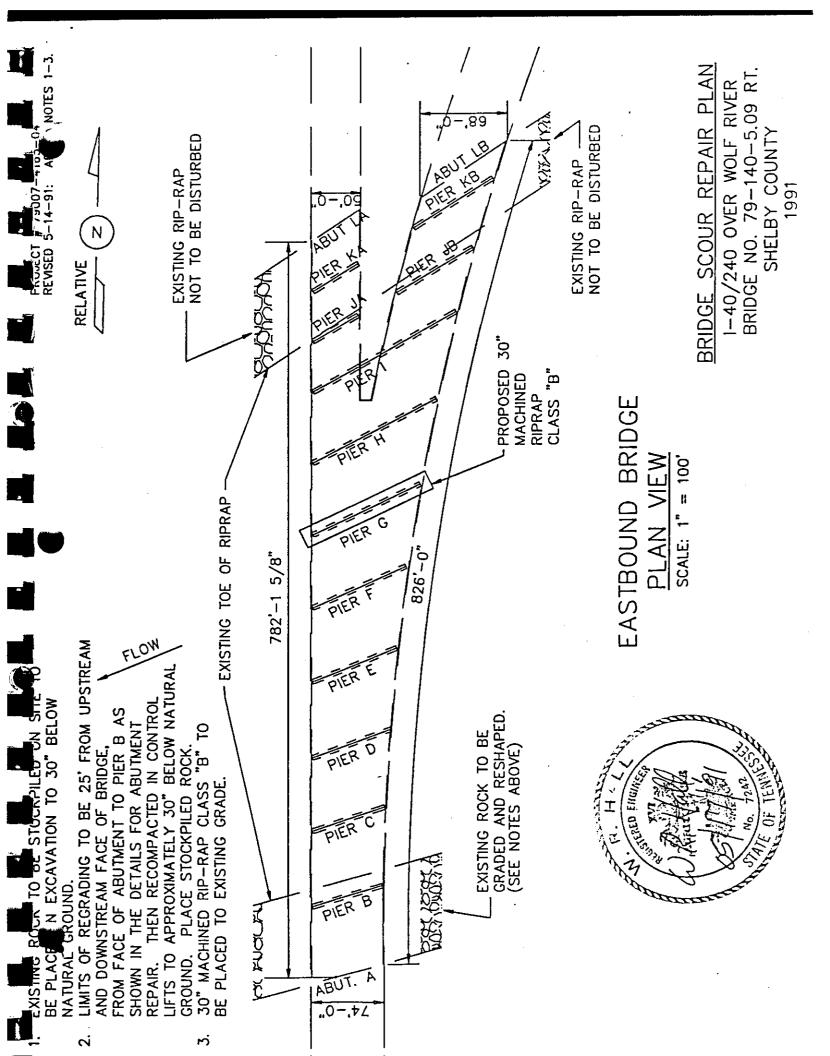
TOTAL CONTRACT

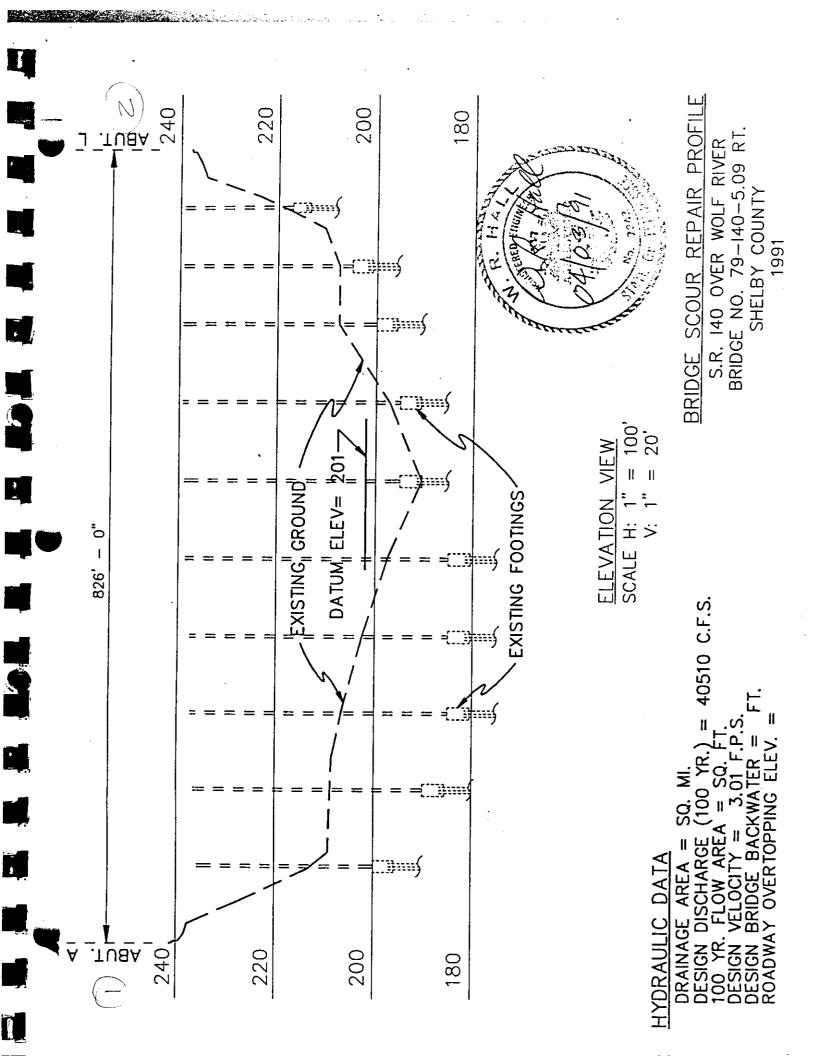
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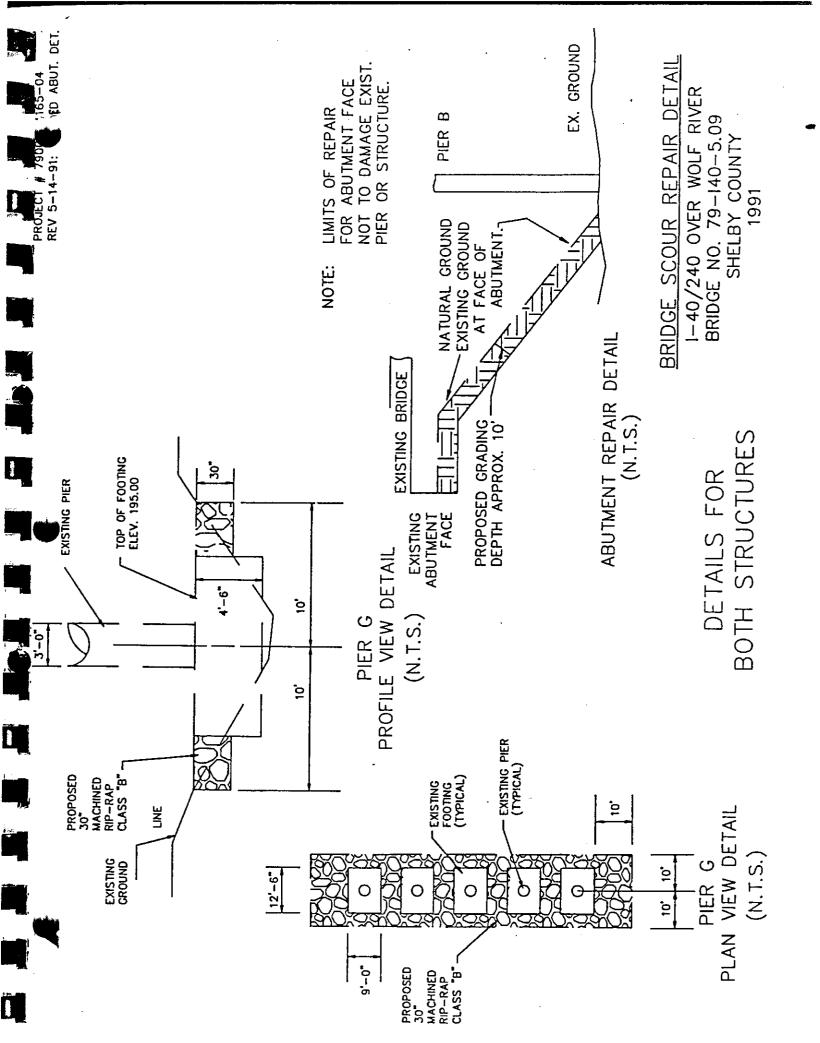
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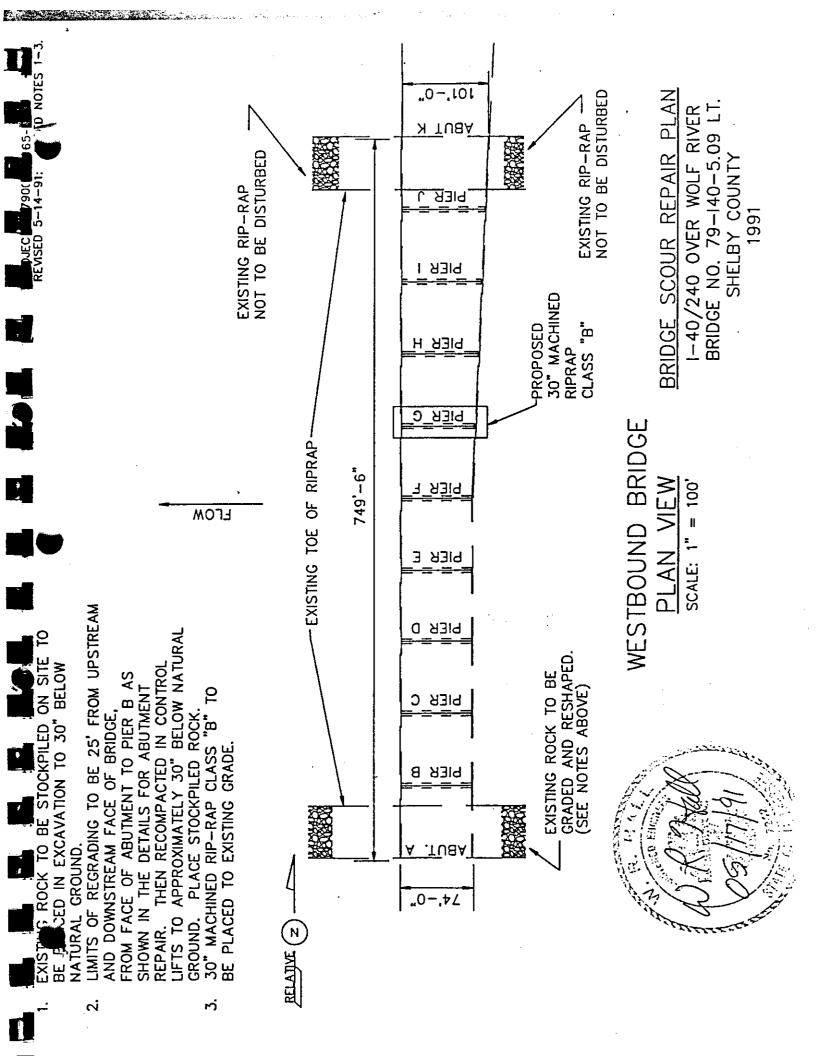
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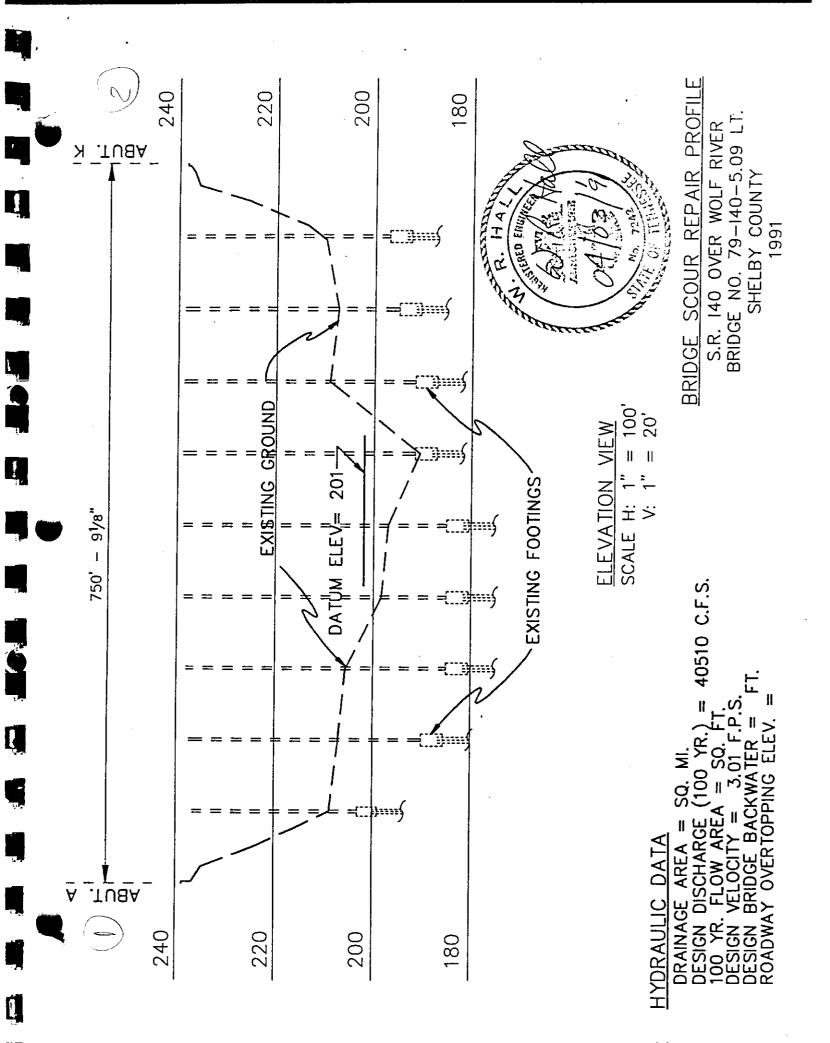


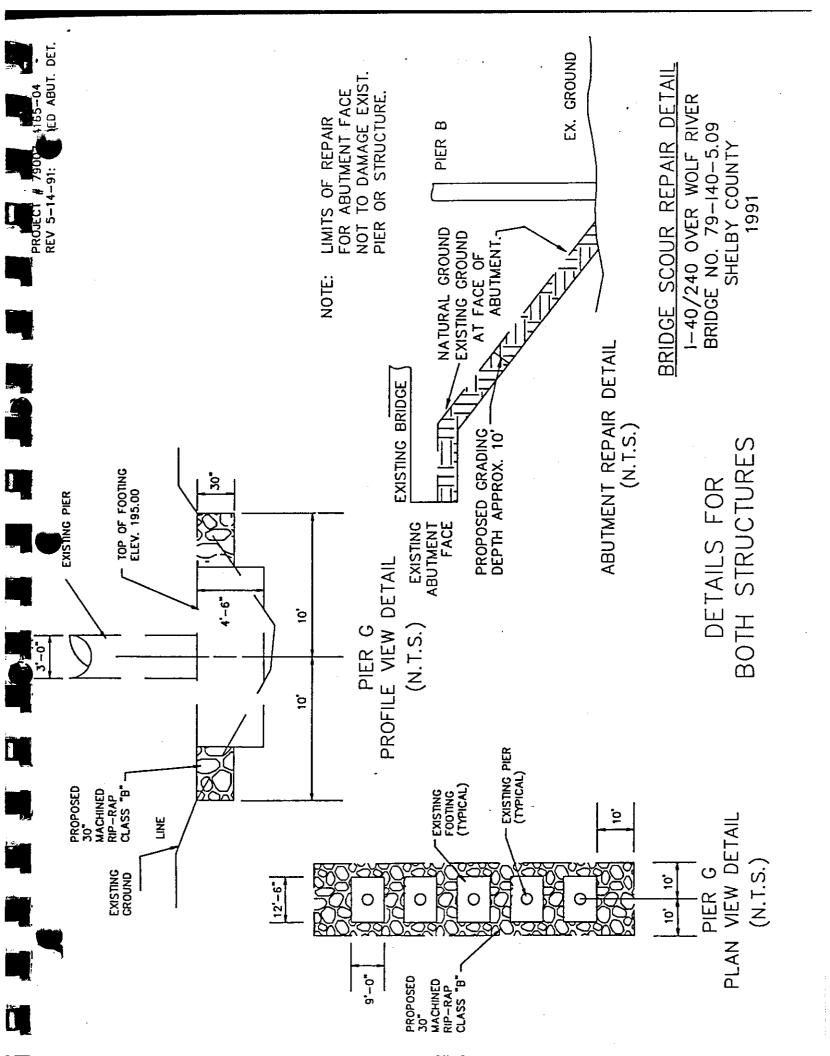




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TENNESSEE SHEET 1 OF 2

Bids to be Received until 10:00 A.M. on June 14, 1991.

### DESCRIPTION OF WORK

In the State of Tennessee, in the County of Shelby: consisting of the Contract Rip-Rap Installation in Shelby County on I-40-5.09 left and right over Wolf River.

 Project Ref. No.	Project No.			
	79007-4165-04	Road	0.00	Miles
	· · · · · · · · · · · · · · · · · · ·	Bridge	0.00	Miles
County <u>Shelby</u>		TOTAL	0.00	Miles

ESTIMATE OF QUANTITIES AND SCHEDULE OF PRICES (Sequence Numbers are for Departmental Use Only)

STATE		OF	SHEET 2 PROJECT	OF 2	N E S S 07-4165
			COUNTY:	Shelby	
ITEM & SEQ. NO.	UNIT MEAS. AND QNTY.	ITEMS AND UNIT PR (SEQ. NO. FOR DEPT. U		UNIT PRICE ********	AMOU * * * * * *
203-01	CU. YD. 4500	ROAD & DRAINAGE EXCAVATION(UNCLASS) @	DOLLARS		
20			CENTS		
209-06	BALE 200	BALED HAY OR STRAW EROSION CHECKS @	DOLLARS		
30			CENTS		
209-08	L.F. 400	TEMPORARY SILT FENCES @	DOLLARS		
40			CENTS		
709-05.08	TONS 1765	MACHINED RIP-RAP [CLA @	SS B] _DOLLARS		
50	,		CENTS		<u>.</u>
712-01	L.S. 1	TRAFFIC CONTROL	DOLLARS		
60		-	CENTS		
717-01	L.S. 1	MOBILIZATION @	DOLLARS		
70			CENTS		

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# SCOUR REPAIR SHELBY COUNTY 79-I40-5.09/WOLF RIVER

# PROJECT NO: 79002-4130-04

# DONE BY REGION IV FORCES

PROJECT UNDER WAT 5/19/98

PICTURES IN REPAIR SECTION SHOW WORK COMPLETE. PICTURES DATED 10-2-98

PROJECT NUMBER REQUEST (Include location map) MECHAEL ANDERSON Requestor: BRIDGE REPAIR Date: |-21-98 Phone No: 741-8.398 Preliminary Engineering No.: <u>-79002-4129-04</u> Construction No.: -19002-2030-04 County: SHELBY Bridge No.: 79-I40-5.09(LGR)/ Crossing: Wolf River Type Work: INSTALLATION OF REP-RAP AS BANK STABALIZATION É REMOVAL OF STREAM OBSTRUCTION FROM CHANNEL Est. Proj. Cost: \$ 262,500 Est. P.E. Cost: \$ 30,000.00 Proposed Letting: MAY '98 Consultant: GARVER+ GARVER ATKINS ST. CHARLES GSDALE AVE. CHICYCO CHICAGO AVE EL AVE DA EVAIDNELAVE TARGILE AV. PAPE VENILEY AV. OU ISY HE AVE. sc.co. LOUISVILLE AV. 5 XV. LOUISVILLE CAPITAL AY. **AOREHEAD ECATUR** 5 .... KAURY CAPITAL SMITH AVE NEU S AVE. 署 SHITHE AVE. FIRESTOR EMPIRE AVE. BLYO. 5 5 CLIDE AVE. HITFIELD AV. FRESTORE EVPIRE CLYDE AV. 5 HOPAC HLYJN. WARBLE AVE AVE Y



### STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION AND REPAIR OFFICE NASHVILLE, TENNESSEE 37243-0338

### Memorandum

DATE: September 17, 1998

TO: Mr. Bill Hazlerig, Region IV Bridge Engineer

FROM: Wayne J. Seger, Civil Engineering Manager 1  $\frac{MR}{5}$ 

RE: 79-I40-5.09/ WOLF RIVER

As discussed, I am sending you this memo to confirm permission for removal of the cofferdams that are obstructing flow in the area of these structures.

It is the opinion of Mr. John Hewitt from the permitting section that neither the Tennessee Department of Environment and Conservation nor the United States Army Corps of Engineers requires a permit to remove a structure from an area. Further, as long as you are not in "waters of the State", we will be in full compliance with both agencies' regulations.

If you find that you are unable to get to one or both of these structures without bringing machinery or equipment directly into the stream flow, please stop work before this occurs.

If you have any further questions, please feel free to call me.



#### STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION NASHVILLE, TENNESSEE 37243-0339

February 5, 1998

Mr. Daniel C. Eagar Tennessee Department of Environment and Conservation Division of Water Pollution Control Natural Resource Section 6th Floor L. & C. Annex 401 Church Street Nashville, Tennessee 37243-1534

Subject:

Emergency Road Repair Interstates 40 and 240 At Wolf River Shelby County

Dear Mr. Eagar:

In accordance with the Tennessee Department of Environment and Conservation's General Permit for Emergency Road Repair, this office is providing a portion of the USGS quad map for Northwest Memphis, TN (404-NE), showing the location of an emergency road repair at the Wolf River, where the riverbank has scoured to the point of endangering the bridge piers. Immediate repairs are necessary to protect the safety of the motoring public. This is a "noplans" operation by TDOT maintenance forces.

The repair, which will be conducted the week of February 9, will consist of the placement of soil and rip-rap of approximately 15" diameter to temporarily repair approximately 590 linear feet of bank which have been severely scoured, and rip-rap covering the existing substrate adjacent to the bank. It is our understanding that the river flow has scoured the bank and moved several feet toward the pier within the last few months, endangering pier stability due to the relatively short piling used under these piers. We are enclosing aerial photographs taken in 1987 and January 1998, which show the movement of the bank toward pier # 7 on both bridges. We are also enclosing photographs taken at the site.

Please note that the current instability of the banks is resulting in considerable erosion and sedimentation. We believe this project will have an overall benefit to water quality.

Diagrams showing the approximate scope of work are enclosed. Due to the varying conditions at the site, and the highly erodible sediments in the river, the engineer on the site will determine the final scope of work at the time the rip-rap is placed. The thickness of the rip-rap layer will vary between 3' and 6', depending on conditions.

We also are preparing to develop project plans for a more permanent solution to the bank erosion problem, which appears to be caused in part by the configuration of the opposite bank

Mr. Daniel C. Eagar February 5, 1998 Page 2

and an existing obstruction in the river upstream of this site. At that time, we will apply for the appropriate permits for the additional work.

By copy of this letter, we request the concurrence of the Corps of Engineers, Memphis District, that this emergency work fits the criteria of one of the Nationwide Permits.

We also request that the Corps inform us at their early convenience if they are planning any related corrective or preservation work for this area of the Wolf River in the future, which may impact or aid potential TDOT work.

Please advise us if you have any questions or if we can be of any assistance.

Sincerely, aul D. Degeges

(for) Edward P. Wasserman Engineering Director, Structures

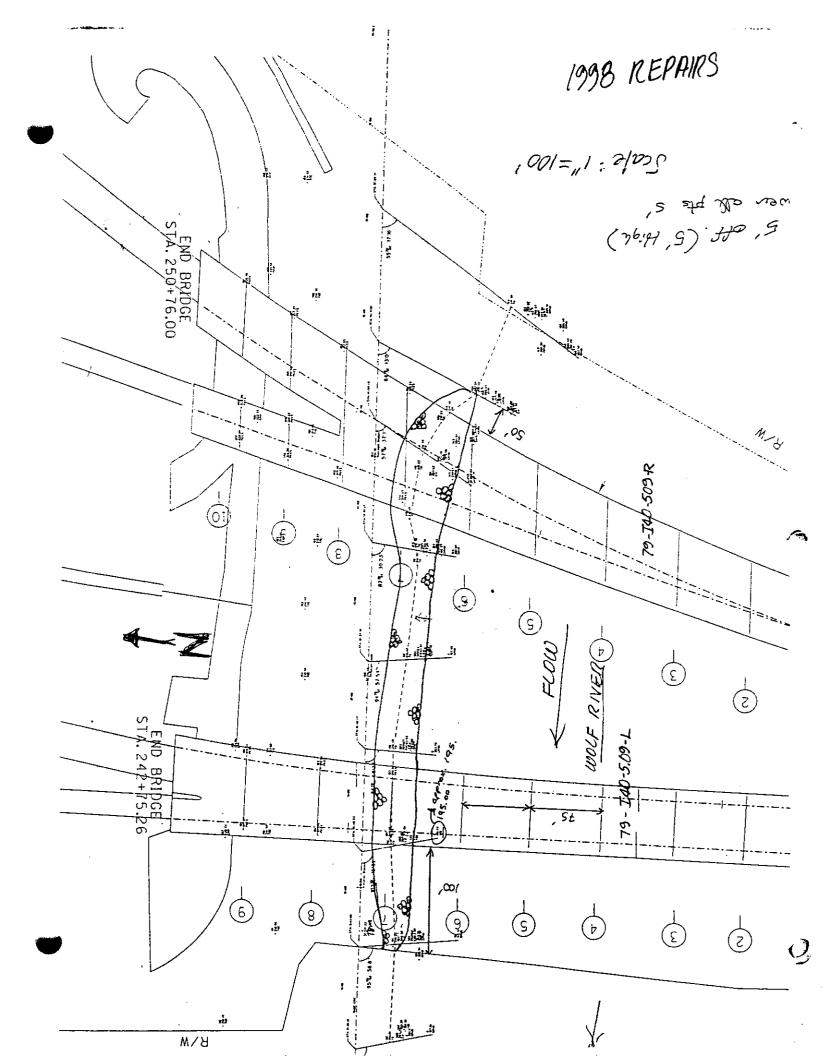
Enclosures

PDD:JLH:pc

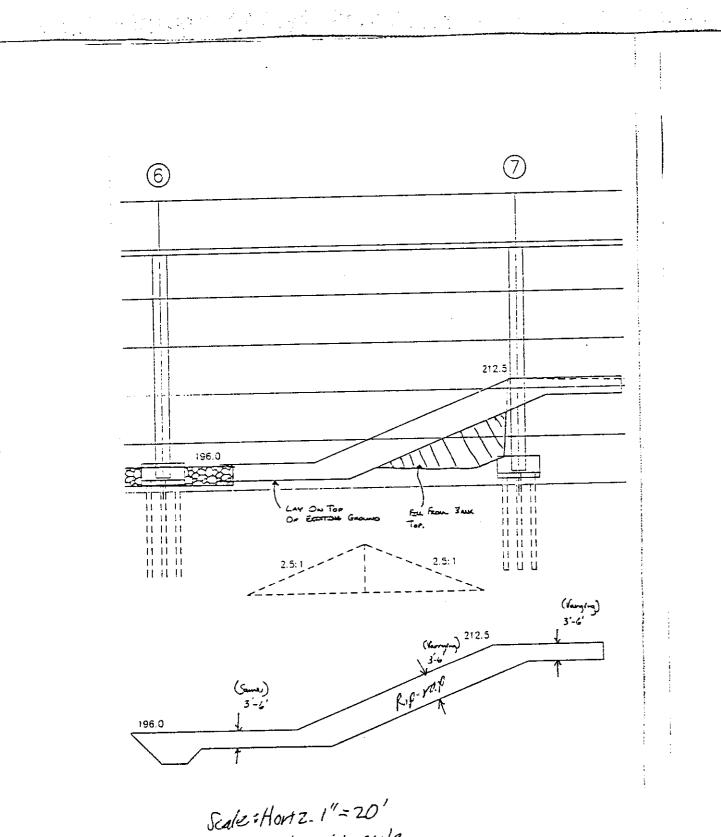
cc: Col. Gregory Bean, USACE Memphis District Mr. Wayne Seger Mr. Bill Hazlerig

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Mr. Bob Englert



1998 REPAIRS

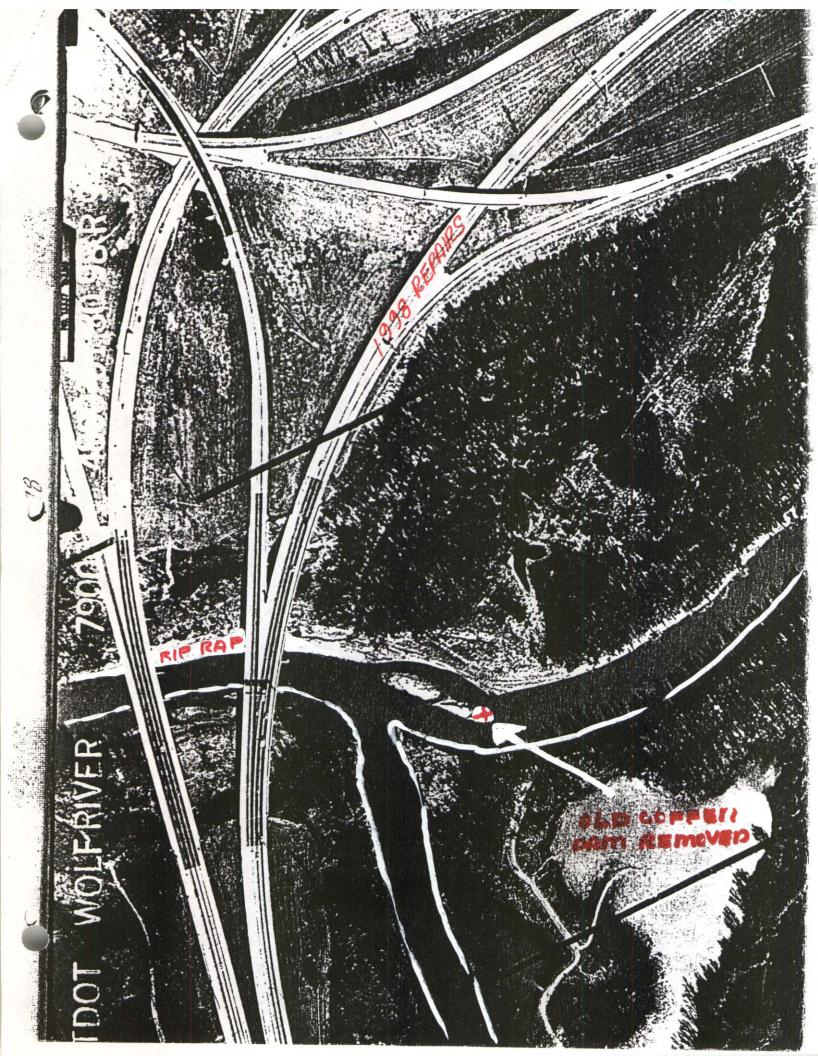


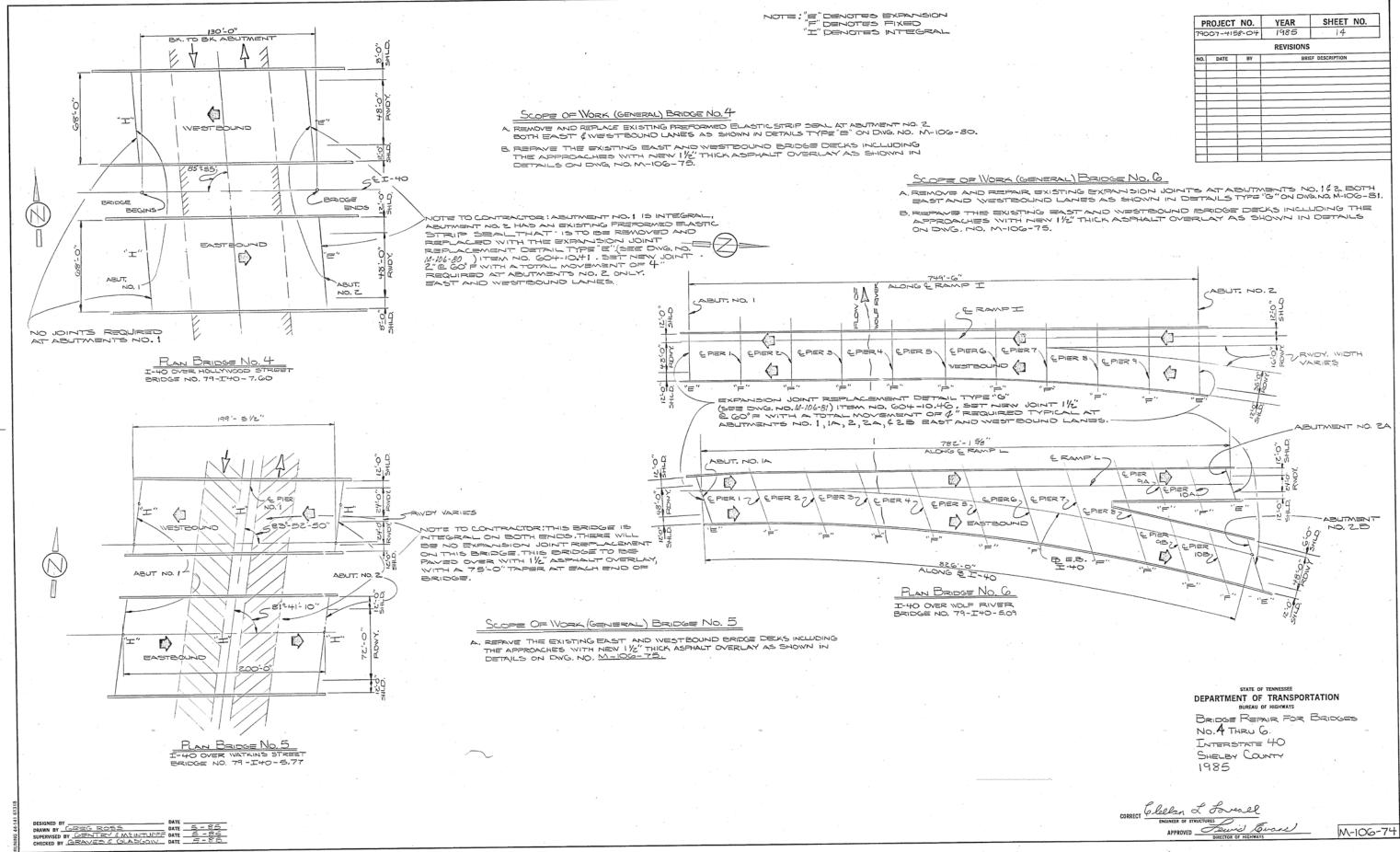
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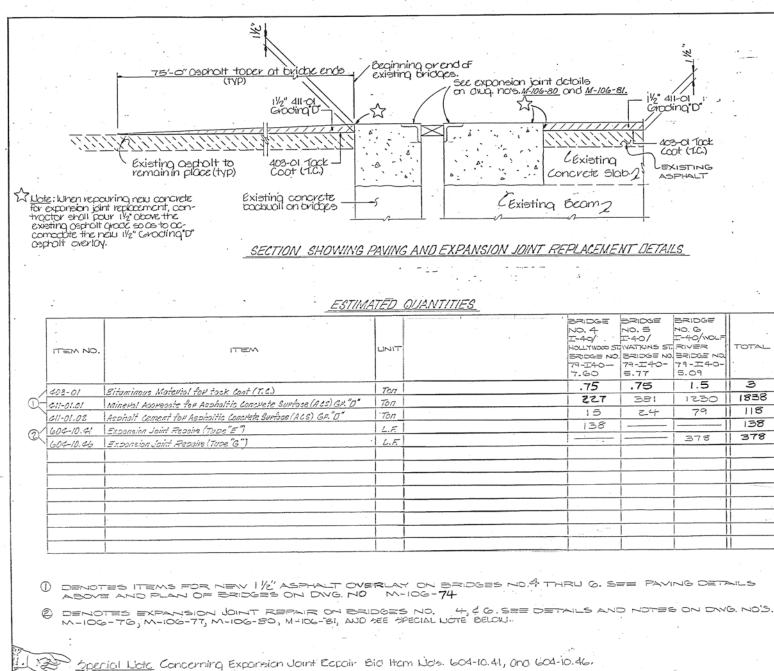
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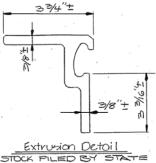


PI	ROJECT	NO.	YEAR	SHEET NO.	
790	07-415	8-04	1985	14	
			REVISIONS		
NO.	DATE	BY	BRI	EF DESCRIPTION	
$\vdash$					
$\vdash$				,	
$\vdash$					
$\vdash$					



Special Liste Concerning Exponsion Joint Ecpair Bid Hem Nos. 604-10.41, and 604-10.46,

The contractor shall inspect 450± Feet (22 individual pieces) of steel extrusions that ore stored of the store construction office, located on centennial Blud. In Nashville, prior to submitting a bid for items no. Lod-to. All and Lod-Lo. These extrusions for picking up the extrusions and utilizing as much of the 4505 Feet as receptobly possible in the fobrigation of the expansion joints specified in items no. Lod-Lod and and and cod-lod. All and drawings for the expansion joints shall show each individual piece of these extrusions and where they are used, see detail below for configuration of extrusions that are stock pilled of the state construction office.



NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR T ALL EXISTING BRIDGE DECK DRAINS, WHEN PLAC ADPHALT OVERLAY CARE SHALL BE TAKEN 30 A OVERLAY AROUND THE BRIDGE DECK DRAINS COST DRAINS AND TAPERING THE NEW ASPHALT OVERL INCLUDED IN COST OF ITEMS BID ON.

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LIST DRAN

SRIDE BRIDG 100

Refe

BRIDG BRID BRIDO

LIST DRAW STRP

REPU TYPE

STRIP REPLA TYPE

JOINT TYPES

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## ESTIMATED QUANTITIES

	ITEM NO.	ITEM DESCRIPTION	UNIT	79-140-5.09 L&R OVER WOLF RIVER	79-2819-4.93 OVER I40-6.60	79-140-7.60 L&R OVER FAU 2821	79-140-8.25 L&R OVER 1.C.G.RAILROAD	79-4186-2.11 OVER I40-9.36	79-140-9.50 L&R OVER WOLF RIVER	TOTAL QUANTITIES	
1	602-10.39	STRUCTURAL STEEL BRIDGE (REPAIRS)	EACH				24			24	
2	604-03.60	BRIDGE JOINT SEISMIC MODIFICATION	EACH	48	36	36	28	40	30	218	
3	604-10.42	CONCRETE REPAIRS	C.F.	36						36	
-	712-01	TRAFFIC CONTROL	L.S.	0.17	0.16	0.16	0.17	0.17	0.17	1	
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	500	440		620	460	400	2420	
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH			10	18			28	
	712-05.01	WARNING LIGHTS (TYPE A)	EACH		6	2	4	6		18	
		SIGNS (CONSTRUCTION)	S.F.		116	44	120	116		396	
4	712-05.03	WARNING LIGHTS (TYPE C)	EACH				8			8	
5	712-06.10	NEW SIGNS (CONSTRUCTION)	S.F.	232					232	464	0
6	712-06.16	SIGNS (CONSTRUCTION) (REDUCE SPEED WARNING)	EACH	4	2			2	4	12	
	717-01	MOBILIZATION	L.S.	0.17	0.16	0.16	0.17	0.17	0.17	1	
	712-08.03	ARROW BOARDS (TYPE C)	EACH			1	2			3	
				CONTRACTOR OF A DESCRIPTION OF A						1 1	

- INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE STRUCTURAL STEEL LATERAL SEISMIC RESTRAINTS.
- (2) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE WIRE ROPE SEISMIC RESTRAINTS.
- (3) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE CONCRETE LATERAL SEISMIC RESTRAINTS.
- (4) TO BE USED ON FLEXIBLE DRUMS THROUGH TAPERS.
- (5) INCLUDES THE INSTALLATION AND MAINTENANCE OF A NEW SIGN PANEL, SHEETING AND SUPPORTS.
- (6) ITEM TO BE USED ONLY WHEN CONTRACTOR ESTABLISHES A REDUCED SPEED LIMIT WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS AND TWO (2) TYPE "B" FLASHING LIGHTS AS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER PRESENT IN THE CONSTRUCTION WORK ZONE.

## <u>utility</u> notes

THE LOCATION OF UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR, AND BY CONTACTING THE UTILITY COMPANIES INVOLVED. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111.

UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO CO-OPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES. THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID. IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF THE WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.



## CONST. WORK ZONE TRAFFIC CONTROL

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF SIGN FACE IS FULLY COVERED

IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPERATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) S.F. AND 712-06.10, NEW SIGNS (CONSTRUCTION) S.F.

A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS FLAGGER SIGNS MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRY (30) FEET SETBACK, THE ENGINEER SHALL APPROVE ALTERNATE LOCATIONS.

THE CONTRACTOR WILL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THRITY (30) FEET SETBACK, THE ENGINEER SHALL APPROVE ALTERNATE LOCATIONS.

## GALVANIZING OF NEW STEEL

ALL NEW STEEL SHALL BE GALVANIZED TO ASTM A123 STANDARDS.

NOTE: ROADSIDE BANKS/SLOPES USED BY THE CONTRACTOR FOR WORK ACCESS, PARKING, AND ANY OTHER OPERATIONS THAT ARE DISTURBED BY HIS OPERATIONS SHALL BE REPAIRED BY REGRADING, RESEEDING, MULCHING OR WHATEVER MEANS ARE NECESSARY TO RESTORE THE BANKS/SLOPES TO THE ORIGINAL CONDITION. ALL RESTORATION WORK SHALL MEET THE FULL SATISFACTION OF THE ENGINEER. COST OF ALL RESTORATION WORK SHALL BE INCLUDED IN ITEMS BID ON.

DESIGNED BY BRIA	AN EGLI	DATE	01/1998
ORAWN BY SCC	TT C. NELSON	DATE	01/1998
	SON & T. CHRISTIANSON	DATE	01/1998
CHECKED BY M. L	AWSON & B. EGLI	DATE	02/1998

F	ROJECI	NO.	YEAR	SHEET NO.			
79959-4152-04			1998	2			
REVISIONS							
NO.	DATE	BY	BRIEF	DESCRIPTION			
1	4-6-98	BKE	REVISED QUANT	TITY & ADDED NOTE			
2	5-8-98	BKE	ADDED GENER	AL NOTE			
3			ADDED GENERA	L NOTE			
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## GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (MARCH 1, 1995 EDITION)

DESIGN SPECIFICATIONS: AASHTO 1992 EDITION WITH ADDENDA.

STRUCTURAL STEEL: SHALL CONFORM TO AASHTO M270 GRADE 36 (ASTM A709 GRADE 36) UNLESS OTHERWISE NOTED.

REINFORCING STEEL: SEE THE STANDARD SPECIFICATIONS.

<u>GROUTED BARS IN DRILLED HOLES</u>: HORIZONTALLY DRILLED HOLES SHALL BE DRILLED  $I_{2}^{\prime\prime}$  IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH NON-SHRINK GROUT AND BAR DRIVEN TO ITS SEAT. VERTICALLY DRILLED HOLES SHALL BE DRILLED  $I_{4}^{\prime\prime}$ IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH EPOXY GROUT AND BAR DRIVEN TO ITS SEAT. ALL GROUTING MATERIAL SHALL BE APPROVED BY T.D.O.T. MATERIALS AND TESTS.

SHOP DRAWINGS: SHALL BE SUBMITTED ACCORDING TO SPECIAL PROVISION NO. 105A. EXCEPT SHOP DRAWINGS SHALL BE SUBMITTED TO THE HEADOUARTERS BRIDGE INSPECTION AND REPAIR OFFICE IN LIEU OF THE DIVISION OF STRUCTURES.

BOLTS: SHALL BE HIGH TENSILE STRENGTH BOLTS (ASTM-A325), UNLESS OTHERWISE NOTED. SIZE TO BE AS NOTED ON PLANS. SEE AASHTO SPECIFICATIONS; ARTICLE 11.5.6 DIVISION II. EXISTING CONTRACT SURFACES SHALL BE CLEANED TO SSPC-10 SPECIFICATIONS PRIOR TO ATTACHMENT OF NEW MEMBERS.

CONCRETE: TO BE CLASS 'A' CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

CONCRETE CURING: ALL CONCRETE IN REPAIR AREAS SHALL BE CURED ACCORDING TO THE STANDARD SPECIFICATIONS.

WELDING: ANSI/AASHTO/AWS D1.5-88 BRIDGE WELDING CODE AND THE STANDARD SPECIFICATIONS.

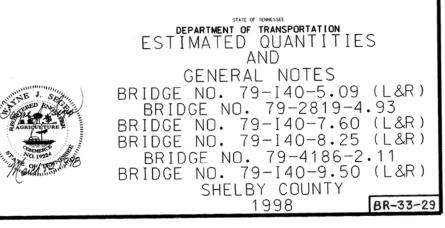
SPECIAL NOTE TO CONTRACTOR: CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURE NECESSARY TO INSURE THAT NO DEBRIS IS DROPPED INTO THE STREAM. ANY DEBRIS WHICH IS ALLOWED TO DROP ON THE BANKS BELOW THE BRIDGE SHALL NOT BE ALLOWED TO ENTER THE STREAM AND SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVING AND DISPOSING OF DEBRIS SHALL BE INCLUDED IN ITEMS BID ON.

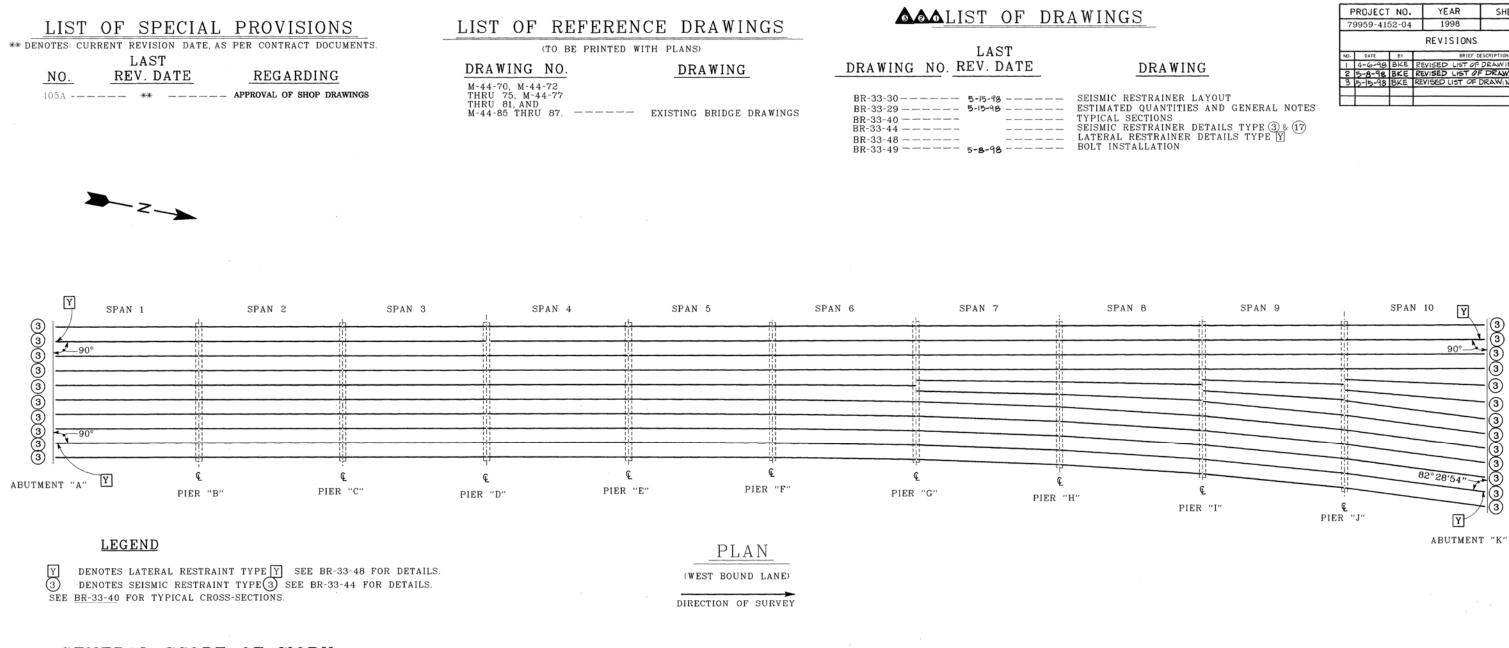
NOTE: ALL STRUCTURAL STEEL FOR SEISMIC RESTRAINER AND LATERAL RESTRAINERS. EXCEPT FOR NON-CORROSIVE WIRE ROPE AND THIMBLES. SHALL BE FABRICATED BY AISC, SIMPLE SPAN BRIDGES CATEGORY, CERTIFIED SHOP.

ASPECIAL NOTE CONCERNING DRILLED ANCHORS: AT ALL LOCATIONS WHERE A DRILLCO MAXI-BOLT OF ANCHOR BOLT IS SPECIFIED, A WILLIAMS UNDERCUTTING ANCHOR SHALL BE ACCEPTABLE AS WELL AS THE DRILLCO MAXI-BOLT.

WIRE ROPE: WIRE ROPE SHALL BE AS SPECIFIED IN AASHTO DESIGNATION M277-B1(1990).

WIRE ROPE CLIPS: EACH CONNECTION SHALL HAVE A MINIMUM OF FOUR (4) WIRE ROPE CLIPS AND CUMULATIVELY DEVELOP 125% OF THE YIELD STRESS OF THE WIRE ROPE. THIS YIELD STRESS SHALL BE VERIFIED BY TENNESSEE DEPARTMENT OF TRANSPORTATION MATERIALS AND TEST.





## GENERAL SCOPE OF WORK

- 1) PROVIDE WIRE ROPE SEISMIC RESTRAINTS AT ABUTMENTS (TYPE 3). REFER TO LEGEND AND PLAN VIEW FOR DESCRIPTION AND LOCATION, THIS SHEET.
- 2) PROVIDE LATERAL SEISMIC RESTRAINTS AT ABUTMENTS REFER TO LEGEND AND PLAN VIEW FOR DESCRIPTION AND LOCATION, THIS SHEET.

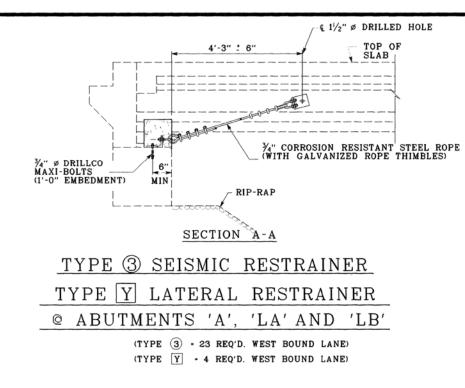
DESIGNED BY BRIAN EGLI	DATE	NOVEMBER 1997
DRAWN BY DON KIMBER	DATE	NOVEMBER 1997
SUPERVISED BY M. LAWSON & T. CHRISTIANSON	DATE	NOVEMBER 1997
CHECKED BY MIKE LAWSON & BRIAN EGLI		FEBRUARY 1998

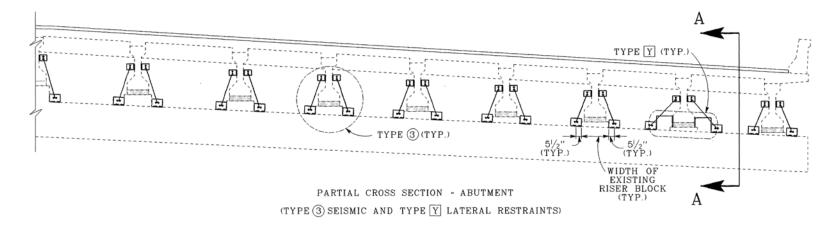
PROJECT	NO.	YEAR	SHEET NO.					
79959-41	52-04	1998						
	REVISIONS							
NO. DATE	BY	BRIEF D	ESCRIPTION					
1 4-6-98	BKE	REVISED LIST OF	DRAWINGS					
2 5-8-98	BKE	REVISED LIST OF	DRAWINGS					
3 5-15-98	BKE	REVISED LIST OF DRAWINGS						
NO. DATE 1 4-6-98 2 5-8-98	BKE	REVISIONS BRIEF DI REVISED LIST OF REVISED LIST OF	DRAWINGS					



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

SEISMIC RESTRAINER LAYOUT INTERSTATE 40 OVER WOLF RIVER BRIDGE NO. 79-140-5.09 (WEST BOUND LANE) SHELBY COUNTY 1998 BR-33-30





### TYPICAL CROSS SECTION

NOTE: DETAILS FOR TYPE  $\fbox$  SHOWN ON <u>BR-33-48</u>. DETAILS FOR TYPE 3 SHOWN ON <u>BR-33-44</u>.

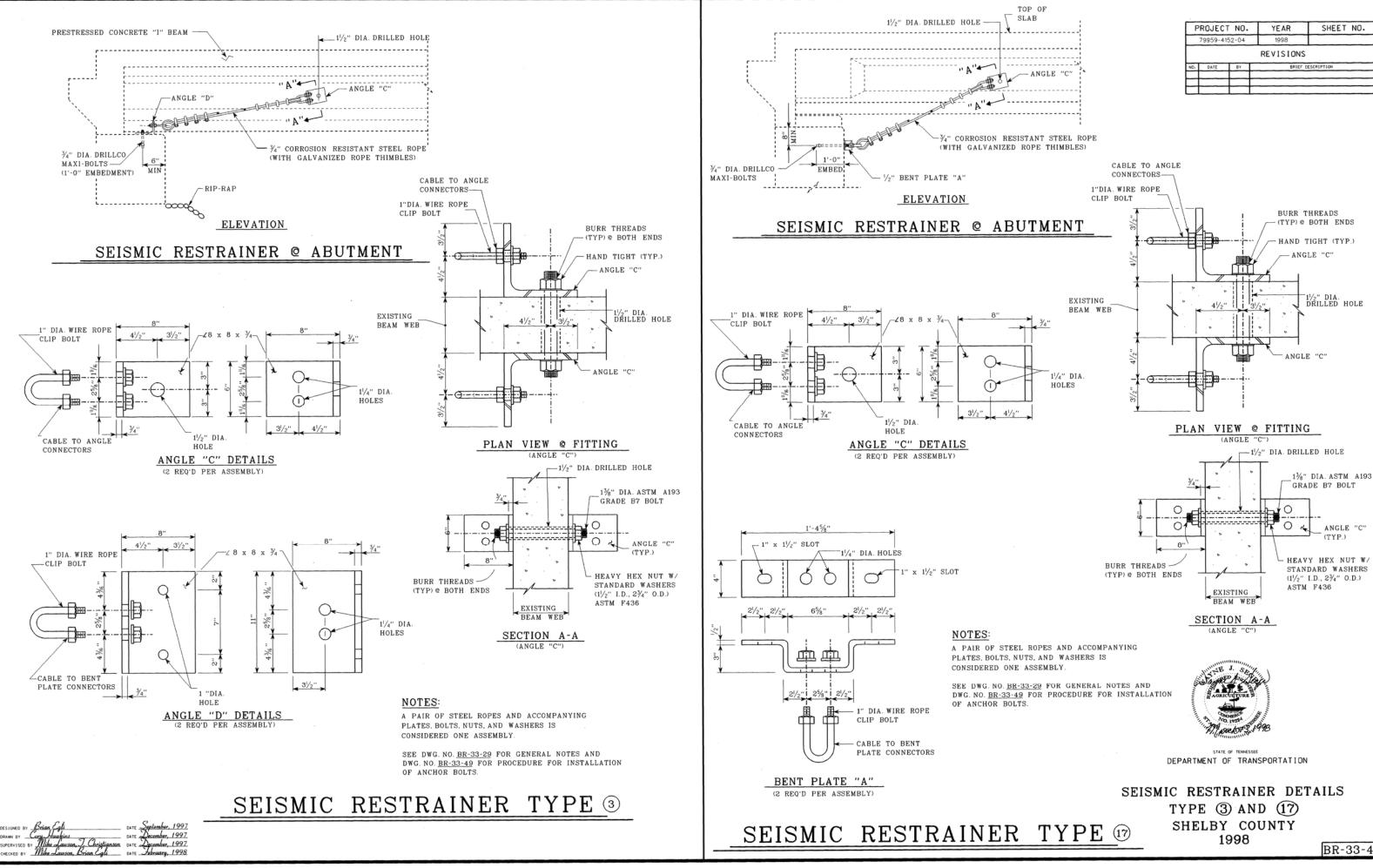
DESIGNED BY BRIAN EGLI	DATE JANUARY 1998	
ORAWN BY DON KIMBER	DATE JANUARY 1998	
SUPERVISED BY M. LAWSON & T. CHRISTIAN	NSON DATE JANUARY 1998	
CHECKED BY MIKE LAWSON & BRIAN EG	LI DATE FEBRUARY 1998	

_								
F	ROJECT	NO.	YEAR	SHEET	NO.			
79959-4152-04			1998					
	REVISIONS							
NO- DATE BY			BRIEF DE	SCRIPTION				



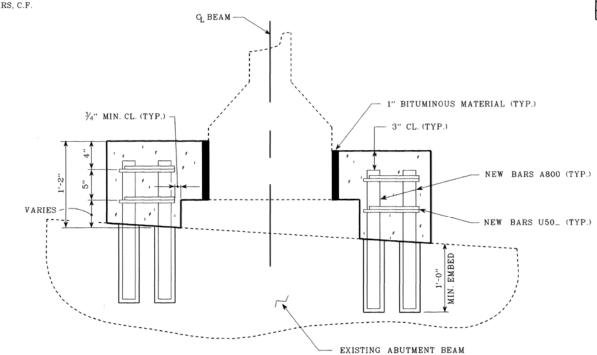
STATE OF TENNESSEE TYPICAL SECTIONS INTERSTATE 40 OVER WOLF RIVER BRIDGE NO. 79-I40-5.09 (WEST BOUND LANE) SHELBY COUNTY 1998

BR-33-40



BR-33-44

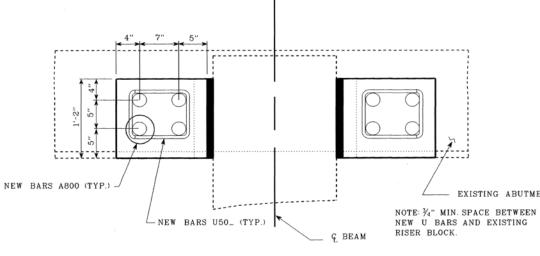
NOTE: COST OF DRILLING, GROUTING, BITUMINOUS FILLER, FORMING, REINFORCING STEEL, CONCRETE, LABOR, AND ANY MISCELLANEOUS MATERIALS TO CONSTRUCT THE LATERAL SEISMIC RESTRAINTS AS SHOWN IN DETAILS THIS SHEET SHALL BE INCLUDED IN ITEM NUMBER 604-10.42, CONCRETE REPAIRS, C.F.



## TYPICAL CROSS SECTION @ ABUTMENT (TYPE "Y")

NOTE: CONTRACTOR TO KEEP CONCRETE OFF THE EXISTING BEARING PADS

## <u>NOTE:</u> CONTRACTOR TO KEEP BLOCK AT LEAST 1" FROM FACE OF DIAPHRAGM OR BACKWALL.

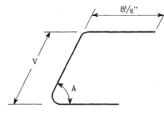


LATERAL RESTRAINER TYPE Y

PLAN

LATERAL BLOCK REINFORCEMENT								
BRIDGE NO.	TYPE	BARS	SIZE	"A"	NO. REQUIRED	V	LENGTH	
		A800	8		36		1'-11"	
79-140-5.09		U501	5	90,82	32	73/8"	1'-115/8"	
EAST & WEST BOUND	PRESTRESSED I BEAM	U502	5	74,73	24	71/2"	1'-113/4"	
		U503	5	57	16	85⁄8"	2'-01/8"	

DIMENSIONS ARE OUT TO OUT ALONG SKEW



LENGTH

BARS A800

BARS U50_

BAR BENDS

DESIGNED BY <u>Brian Egli</u> DRAMN BY <u>Cory Hawkins</u> SWERVISED BY <u>Mike Lawson, J. Christianson</u> CHECKED BY <u>Mike Lawson, Brian Egli</u>	DATE <u>September, 1997</u>
DRAWN BY Cory Hawkins	DATE December, 1997
SUPERVISED BY Illike Lawson, J. Christianson W.I. R. S. L.	DATE December, 1997
CHECKED BY Illine Lawson, Drian Cali	DATE DEDPUARY, 1990

P	ROJECT	NO.		YEAR	SHEET NO.	
79959-4152-04				1998		
REVISIONS						
ND-	DATE	BY		BRIEF D	ESCRIPTION	
-						

NOTE: CONTRACTOR TO REMOVE *  $\frac{1}{2}$ " OF CONCRETE IN BLOCK LOCATIONS FOR BONDABLE SURFACE.

EXISTING ABUTMENT BEAM

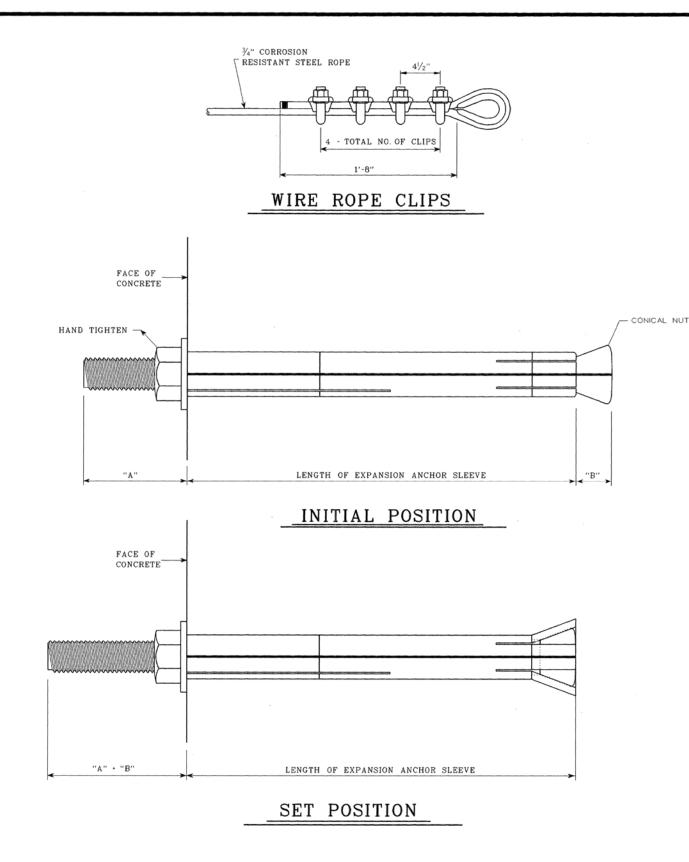
NEW U BARS AND EXISTING



DEPARTMENT OF TRANSPORTATION

LATERAL RESTRAINER DETAILS TYPE Y SHELBY COUNTY 1998

BR-33-48



### PROCEDURE FOR INSTALLATION OF ANCHOR BOLTS:

(3/4" DIAMETER DRILLCO MAXI-BOLT OR WILLIAMS BOLTS)(UNDERCUTING REQUIRED)

- 1. LOCATE PLACEMENT OF EXISTING REBAR IN VICINITY OF ANCHORS WITH A REBAR LOCATING DEVICE AND MAKE NECESSARY CORRECTIONS IN LOCATIONS OF ANCHORS ON CONCRETE. ANCHOR LOCATION MAY VARY PLUS OR MINUS 3 INCHES IN ANY DIRECTION BUT THE HOLE SHALL BE DRILLED WITHIN 6 DEGREES OF PERPENDICULAR TO THE NOMINAL CONCRETE SURFACE. CUTTING OF REBAR WILL BE ALLOWED.
- 2. HOLES SHALL BE DRILLED WITH A CARBIDE PERCUSSION DRILL BIT, A "REBAR EATER" BIT OR A DIAMOND CORE BIT.
- 3. THE DRILL BIT DIAMETER AND HOLE DEPTHS ARE SPECIFIED AS FOLLOWS: a) THE MAXIMUM DRILL BIT DIAMETER SHALL NOT EXCEED 1.172 INCH DIAMETER. b) THE HOLE DEPTH SHALL NOT BE LESS THAN THE ANCHOR EMBEDMENT PLUS 11/2INCHES BUT MAY EXCEED THE SPECIFIED HOLE DEPTH BY NOT MORE THAN 1 INCH
- 4. IF AN ANCHOR MUST BE RELOCATED AND A NEW HOLE DRILLED, THE OLD HOLE SHALL BE REPAIRED WITH A NON-SHRINKAGE PACK GROUT.
- 5. UNDERCUT IN PRIMARY HOLE SHALL BE AS SPECIFIED BY THE MANUFACTURER OF THE UNDERCUTTING TOOL
- 6. CLEAN THE HOLE OF CONCRETE DUST AND DEBRIS USING OIL FREE COMPRESSED AIR OR BY VACUUMING, PLACE BEARING SLEEVE FLUSH WITH THE CONCRETE SURFACE.
- 7. THE EXPANSION SLEEVE IS TO EXPAND INTO THE UNDERCUT CREATED BY THE UNDERCUTTING TOOL THEREFORE THE ANCHOR TUBE MUST TERMINATE AT THE BASE OF THE UNDERCUT SECTION.
- 8. TO SET THE ANCHOR, IT IS NECESSARY TO DRAW THE CONICAL NUT OF THE STUD BOLT INTO THE ANCHOR SLEEVE. AFTER THE ASSEMBLY IS INSERTED INTO THE DRILLED HOLE, THE ANCHOR WILL BE CONSIDERED SET WHEN THE DIMENSION "A" (SEE ANCHOR SETTING DETAILS) HAS INCREASED BY AN AMOUNT EQUAL TO DIMENSION "B". AFTER THE STEEL PLATES ARE IN PLACE THE FINAL TENSION LOAD OF 28400 LBS. SHALL BE APPLIED. THE ANCHOR LOADS MAY BE APPLIED BY MANUAL TORQUING OR HYDRAULIC TENSIONING.
- 9. BECAUSE OF CLOSE TOLERANCE BETWEEN CONICAL NUT O.D. AND HOLE I.D. IT MAY BE NECESSARY TO LIGHTLY HAMMER THE ANCHOR INTO THE HOLE. IF HAMMERING IS NECESSARY, STEPS SHALL BE EMPLOYED WHICH WILL PREVENT DAMAGE TO THE STUD BOLT THREADS.
- 10. INSTALLATION PROCEDURES REQUIRED BY THE ANCHOR MANUFACTURER IN ADDITION TO THE INSTRUCTIONS LISTED ABOVE SHALL BE FOLLOWED.
- 11. BENT PLATES SHALL BE ASTM A709 (GRADE 36) MATERIAL GALVANIZED TO ASTM A123 STANDARD
- 12. POSITION OF PLATE OR ANGLE ON BEAM: ABUTMENTS: THE PLATE OR ANGLE SHALL BE POSITIONED ON THE BEAM WITH CABLE IN THE FULL EXTENDED POSITION AND PLATE OR ANGLE POSITION MARKED. THE PLATE OR ANGLE SHALL THEN BE SHIFTED TOWARD THE ABUTMENT 3" AND THE ANCHOR BOLT LOCATIONS MARKED THROUGH THE PLATE OR ANGLE ANCHOR HOLES. BENTS (BEAM TO BEAM): AFTER ONE ANCHOR HAS BEEN ATTACHED THE ANGLE OF THE OTHER SHALL BE POSITIONED ON THE BEAM WITH CABLE IN THE FULL EXTENDED POSITION ANGLE POSITION MARKED. THE PLATE OR ANGLE SHALL THEN BE SHIFTED TOWARD THE BENT 3" AND THE ANCHOR BOLT LOCATIONS MARKED THROUGH THE ANGLE ANCHOR HOLE.

### PROCEDURE FOR INSTALLATION OF ANCHOR BOLTS:

(3/4" | HILTI BOLTS OR EOUAL)(NO UNDERCUTTING REO'D)

1. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PROCEDURES.

## ANCHOR SETTING DETAILS

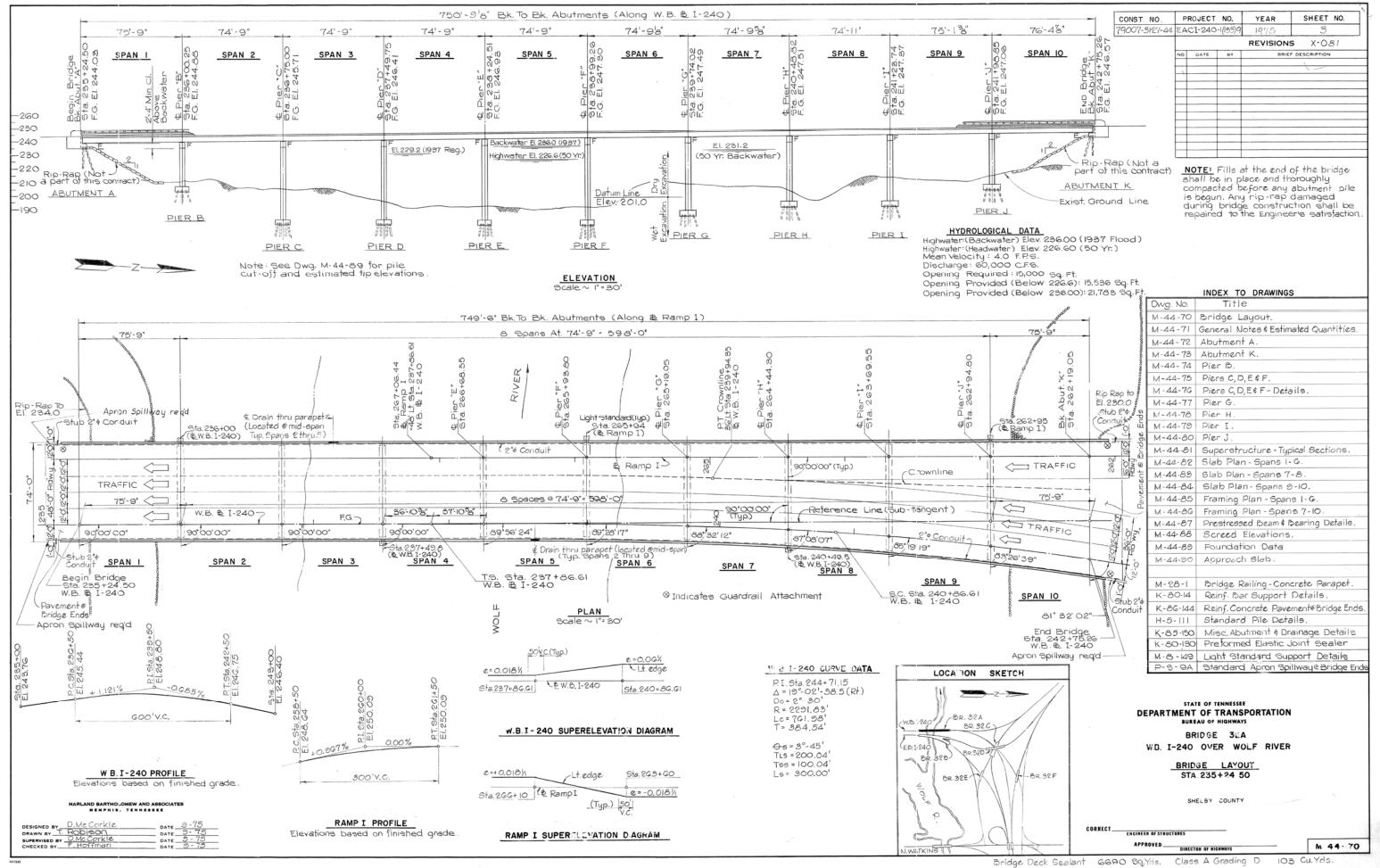
P	ROJECT	T NO.		YEAR	SHEET NO.			
79959-4152-04				1998				
	REVISIONS							
NO-	DATE	BΥ		BRIEF D	ESCRIPTION			
1	5-8-98	B.K.E.	REVISED SHEET					



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BOLT INSTALLATION SHELBY COUNTY 1998





MICROF

### GENERAL NOTES

- I. <u>SPECIFICATIONS</u>: Standard Road and Bridge Specifications of the Tennessee Department of Highways (1968 Edition)
- 2. LOADING : HS-20-44 with Alternate Military
- 3. DESIGN SPECIFICATIONS: 1973 AASHTO with Addenda.
- 4. CONCRETE: To be Class "A"(cast-in-place), fc * 3000 psill See Special Provision Regarding Section 604 "Concrete Structures.
- 5. REINFORCING STEEL: To be ASTM AGI5 Grade 60. Standard CRSI hook details apply unless otherwise noted on Bill of Steel. Bending dimensions shown are based on Grade 60 steel. Spacing dimensions are center to center unless otherwise noted on detail drawings.
- 6. BRIDGE RAIL: Build bridge rail in accordance with Tenn. std. Dwg. M-28-1.
- 7 FINISHING CONCRETE SURFACES: Concrete finishing shall be in accordance with Section 604.22 of the Tennessee Standard Specifications except as modified by the Special Provision Regarding Section 604. Concrete Structures. A Textured Coated Finish shall be used in lieu of a Class 2 Finish. The color of the finish shall be similar to Federal Specification No. (See Detail) Federal Color Standard 595 a; and a color sample shall be Submitted to the Engineer of Structures for approval. All exposed concrete surfaces including concrete parapets and wingposts, piers and abutments above grade (but not including bridge slab), shall receive a textured coat finish. textured coat finish.
- <u>8. FOUNDATION NOTE (FRICTION PILES)</u>: After excavating to the proposed footing elevations, a test pile shall be driven at each substructure at the location designated on drawing numbers M-44-72 thru 80. A load test Abutment A. The load 🛆 will then be applied to the test pile on test shall be in accordance with "Special Provision Regarding Load Test For Friction Piles." From the results of the load test the Engineer of Structures will determine final pile tip elevations. For pile design loads, cut-off elevations and pile tip elevations see table on Dwg. No. M-44-89.
- <u>9. ALTERNATE PILES:</u> The Contractor may use pilling of a different material or configuration from that shown on the plans provided the substitution meets minimum design standards and specifications, is approved by the Engineer and conforms to conditions established by the special Provision No. 131, Regarding Section 608. Piling, dated Oct. 1, 1975.
- IO TEST PILES: Test piles in Piers B,C,D & E shall be correlated to the load test in Abut."A" Test piles in Piers F,G,H,I,J, and Abut."K" shall be correlated to the load test in Pier JB, Bridge 32 B. ٨
- II. See Special Provision Regarding subsection 908.13 Elastomeric Bearing Pads.
- 12. BRIDGE DECKSEALANT: The bridge deck and reinforced approach slab shall be sealed in a juture paving contract. (6690 Sq. Yds. required.)
- 13 BRIDGE DECK FORMS: Bridge deck forms for concrete decks shall be constructed using either removable forms or permanent forms. In either case, forms shall be attached by means, other than welding to support members. See Special Provision No. 450 "Special Provision Regarding Permanent Steel Bridge Deck Forms", Revised November 9, 1978.

14. COFFERDAM FOUNDATION PREPARATION: The lump sum bid for cofferdam items shall be full compensation to the contractor for preparation of foundations prior to pouring concrete for footings. The Contractor shall Joundations phor to pouring concrete for jootings. The Contractor shall be paid for excavation in accordance with the standard specifications and the contract unit bid price for each excavation item, except that no percent increase will be allowed for extra depth excavation. If contendams are required, they shall be in accordance with Section 204 of the Std. Specifications. Regardless of whether contendams are used the Contractor shall be paid for Items 204-15.01, 204-15.02 and 204-15.03. The cost of seal concrete required is to be included in the cofferdam lump sum bid.

<u>15 LINSEED OIL PROTECTIVE TREATMENT:</u> Surfaces receiving Textured Coated Finish shall not receive a linseed oil treatment. See Special Provision

heights. The bearings shall be capable of providing the following minimum requirements under service loads. (Laminated pads - 30 durometer regd.,

GIK

17. BAR DESIGNATIONS: The first number of all bar marks is the size of the bar: eg. H400 * #4 Bars , H100 * *11 Bars.

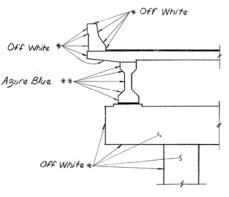
regarding Section 604 - Concrete Structures.

plain pads 70 durometer regid.)

Total Movement Regid )ead Load Reaction

Live Load Reaction 51K Total (DL+LL+I) Reaction 125K

- QUANTITY
- 1. Excavation based profile.
- 2. See Alternate Pi
- 3. The cost of poly laneous items ne
- 4. Lump sum for Stru includes 1580 ft. junction boxes, 2 materials or ins 16. ELASTOMERIC BEARING PADS: In lieu of the bearing devices shown on these plans the Contractor may submit shop plans and design calculations of alternate bearing devices to the Engineer of Structures for approval. Bearing seat elevations shall be adjusted to compensate for differences in bearing being the particular the particular the particular to compensate for differences.



### SUMMARY OF ESTIMATED QUANTITIES

									SUMMARY	OF ESTIMA	IED QUAN	THES							
Item No.	204-02.01	204-03.01	602-05.07	604-03.01	604-03.02	604-25.04	606-09.01	606-09.02	606-09.03	615-01.03	େ-୦୫	710-10	710-11	714-01.01	204-15.01	204-15.02	2:04-15.03	908-21.01	604-03.03
Description		Wet Excavation (Bridges)(1)	Preformed Elastic Joint Sealer Type III	CI055 A		Textured Coated Finish (New Structures)		(Precast Conc	Piles-Size I	Prestressed Conc. I beam Type III(7)	Concrete Parapet (6)	G"¢perf.CM.P (Bga)%porous backfill(3)	Underdrains	Structure Lighting (4)	Cofferdam	cofferdam	Cofferdam	Bearings E-I	Linseed Oil Treatment
Unit	Cu,Yds.	Cu.Yds,	Lin. Ft.	Cu.Yds.	Lbs.	Sq Yds.	Lin. Ft.	Each	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin, Ft.	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Each	5q.Yds.
Abutment A	80		73.0	48.7	7550	25	90	1	450			80	4					10	27
Pier B	195	45		120,4	17840	245	40		680										
Pier C	140	430		158.7	22933	୧ଚ୦	40		920										
Pier D	40	565		164.6	23991	280	30		690						1				
Pier E		495		165.4	24127	285	30		690							I			
Pier F		495		166.1	24263	290	30		690								1		
Pier G	195	265		156.4	20600	265	30		690										
Pier H	195	265		157.9	21550	270	30		690										
Pier I	210	290		62.0	23570	280	30		690	-									
Pier J	195	235		164.4	24530	295	30		690										
Abutment K	00		99.5	66.6	10470	30	110		770			107	4					13	36
Pvmte Bridge Ends				176.7	45230				210										462
Superstructure				1528.8	429,650	2410				7926	1520								 6225
Total	1350	3085	172.5	3,236.7	2696,304	4935	490	l	7860	7926	1520	187	8	1	1	1	1	23	6750

DESIGNED BY D. MC CORKIE	DATE 9-175
DRAWN BY T. RODISON	DATE 9-175
SUPERVISED BY D. MC CONKIE	DATE 9-175
CHECKED BY F. HOJIMAN	DATE <u>9-175</u>

NOTES	CONST. NO.	P	ROJECT	NO.	YEAR	SHEET NO.
on existing ground	79007-3127-44	EAG	cI-240-	(133)9	1975	- 4
le Note.					REVISION	5
ie dole.		NO.	DATE	BY	BRIE	F DESCRIPTION
		$\Delta$	6-16-76	ret	Removed Lord og	Pier J, changed to Pier JB
		2	9-7-76	CEH	Conc. Qt. Pier J	FAbut. K-Reinf. Qt.
					Piers C, D, E	, F.
		3	6-9-77	GJM	Changed Tex. C	oot. Finish Colors
		$\vdash$				
ethylene sheeting and	all miscel-	$\vdash$				
cessary for installati						
of perforated C.M. Pip	e lo oc	$\vdash$				
ucture Lighting, Item N 2"4 conduit with pull	10,714-01.01,					
2"9 conduit with pull	wires, 4					
20 anchor bolts and stallation of light stan	all necessary	·				
siariation of light stan	darus.					

5. The cost of 12 threaded steel inserts and 12-764×4" hex head bolts (A 307) shall be included in bridge items bid on.

6. The quantity given is out to out of wingposts. The cost of light standard base including concrete and reinforcing is to be included in the price bid for concrete parapet.

7. The cost of plain Elostomeric bearing pads, rubber bonding cement, inserts and dowel bars to be included in the cost of Prestressed Concrete Beams

8. The cost of bituminous fiberboard, 2"\$ drains, and all miscellaneous joint material to be included in bridge items bid on.

9. The cost of 3 spillway aprons shall be included in the cost of Roadway Items.

All surfaces marked with (*) shall have a textured coated finish similar to Off White (Fed. Spec. No. 37778), in addition to the surfaces marked, all exposed abutment, endwall, wingwall, wingpost & bent surfaces shall receive the same finish. Surfaces coated finish similar to Azure Blue (Fed. Spec. No.85190).

TEXTURED COATING DETAIL

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY

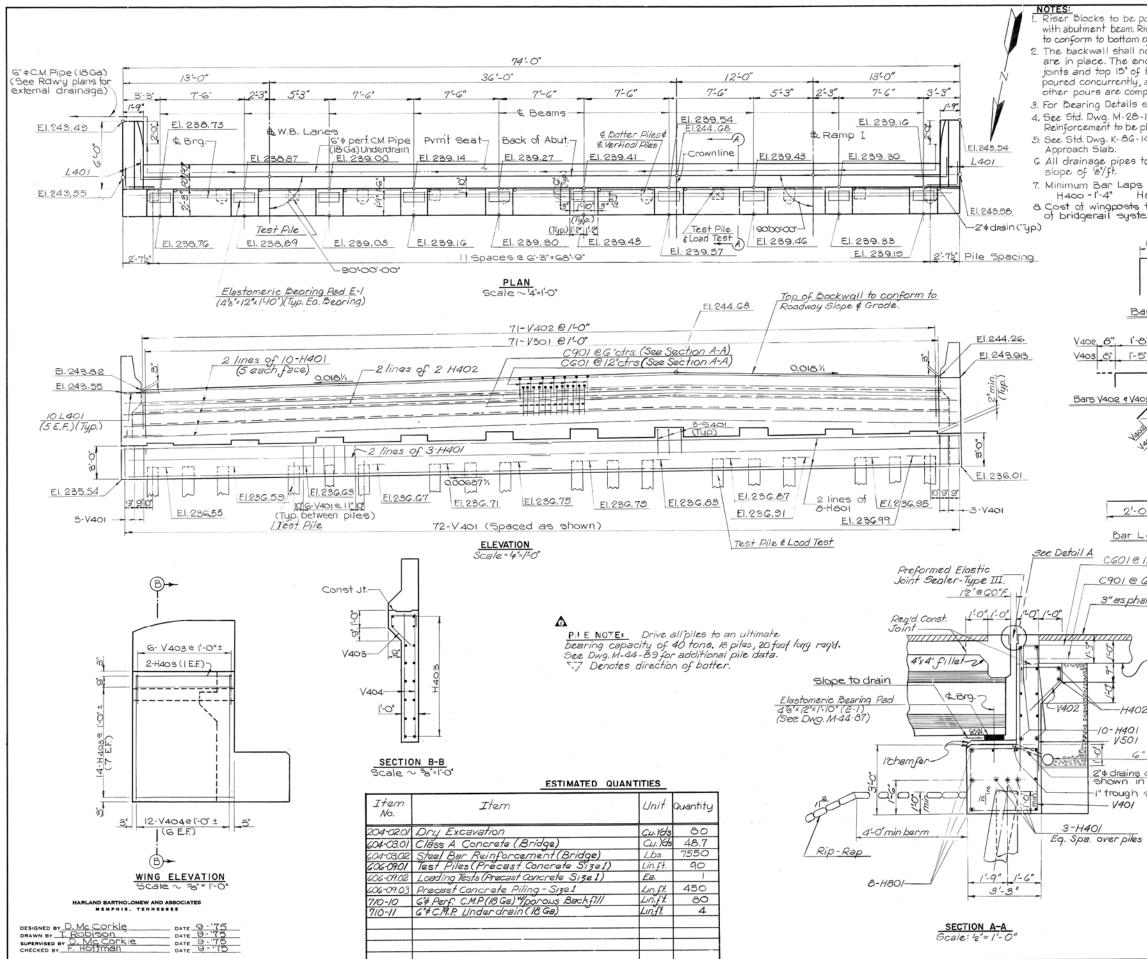
BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

GENERAL NOTES & ESTIMATED QUANTITIES STA. 235+24.50

SHELBY COUNTY

CORRECT_____ENGINEER OF STRUCTURES

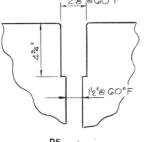
APPROVED ______ DIRECTOR OF HIGHWAYS



MICROFILMED

to be poured monolithically CONST.	NO. PF	ROJECT	NO.	YEAR	SHEET	NO.
beam, Riser block pad surface		1-240-		1975	5	
shall not be poured until the be	ams			REVISION	IS	
The end 2 feet of slabs at expar	nsion NO.	DATE	BY	BRI	EF DESCRIPTIO	N
15" of the abutment backwall sha	all be 🕰	6-11-76	ret	changed pile la	ggtty i gumbar	chua to
rently, and are to be poured after re complete.				looding tests		
etails see Dwg. M-44-87.						
M-28-1 for Details of Wingpost	and 📃					
to be placed in wingwalls for wir	ngpost.					
K-86-144 ¢ Dwg.M-44-90 for De						
pipes to have a minimum downw +	ard					
'' Laps shall be as follows; '' Haoi = 3'-0''				BILL OF	F STEEL	
posts to be included in the co	vət .					-
system.		M	ark	NO. Reguired	Length	Shape
8 2	-10"	H	401	26	37'-5"	
8		H	402	4	35'-8"	
		H	403	32	5'-8"	
4	ò	-				
ē	Ō					
· · ·		H	801	16	38'-0"	
Bars Y501 Bar	s V401					
ରି ତି।			1401	72	12'-4"	n
<u>"- '-0" -</u>			401 402	71 .	4'-10"	7
V402			403	12	4'-2"	7
	2'-9"	V	404	24	7'-2"	
	3'-9"					
D2 4 V403			50/	71	13'- 4"	
-iz bar	5 C601 \$ C9	IOG	3401	30	5'-3"	
X			101	00		
10 million		C	601	71	3'-9"	L
2'	-11"					
		- 0	901	141	5'-4"	
Ŏ _	-2"	Ĕ	,			
-1						
2'-0' Bar	5 5401	<u> </u>	401	20	3'-0"	L
Dai	5 5401					
Bar L 401		<u> </u>				
601@12 (Dowels to approach	slab)			23	@GO [°] F	
101 @ G" (Dowels to approach	slab)					
		7		T 1	(	7
asphalt over lay		(	-			)
			100	t   t		(

Approach slab (See Std. Dwg. K-86-144)



See Tenn, Std. Dwg. K-85-150

(See Std. Dwg.K-80-130 for details)

for drainage details.

6" Perforated corn metal pipe underdrain(18gauge)

2'd drains at locations shown in plan "trough sloped to drain

DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS BRIDGE 32A W.B. I-240 OVER WOLF RIVER

STATE OF TENNESSEE

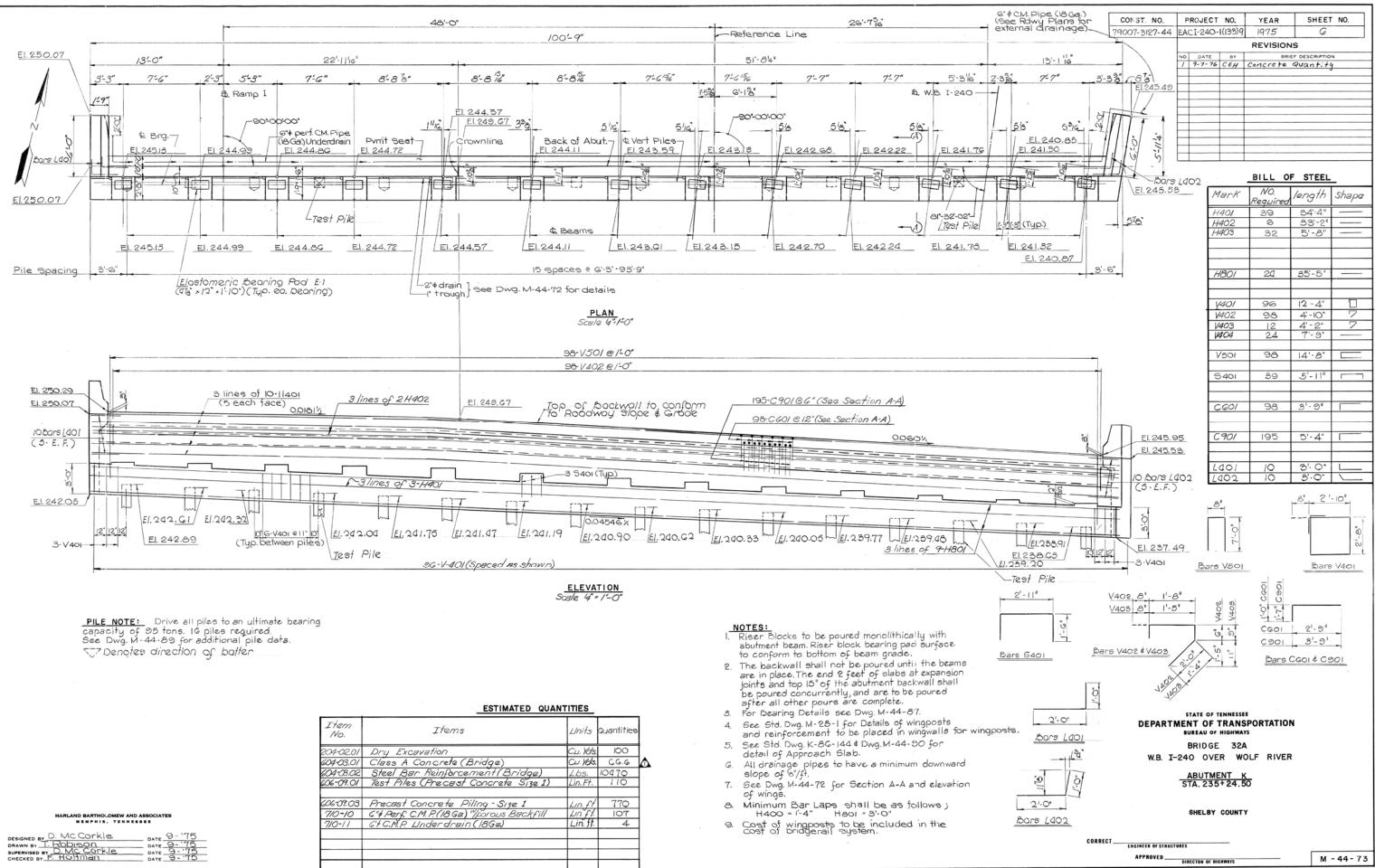
ABUTMENT A STA. 235+24.50

SHELBY COUNTY

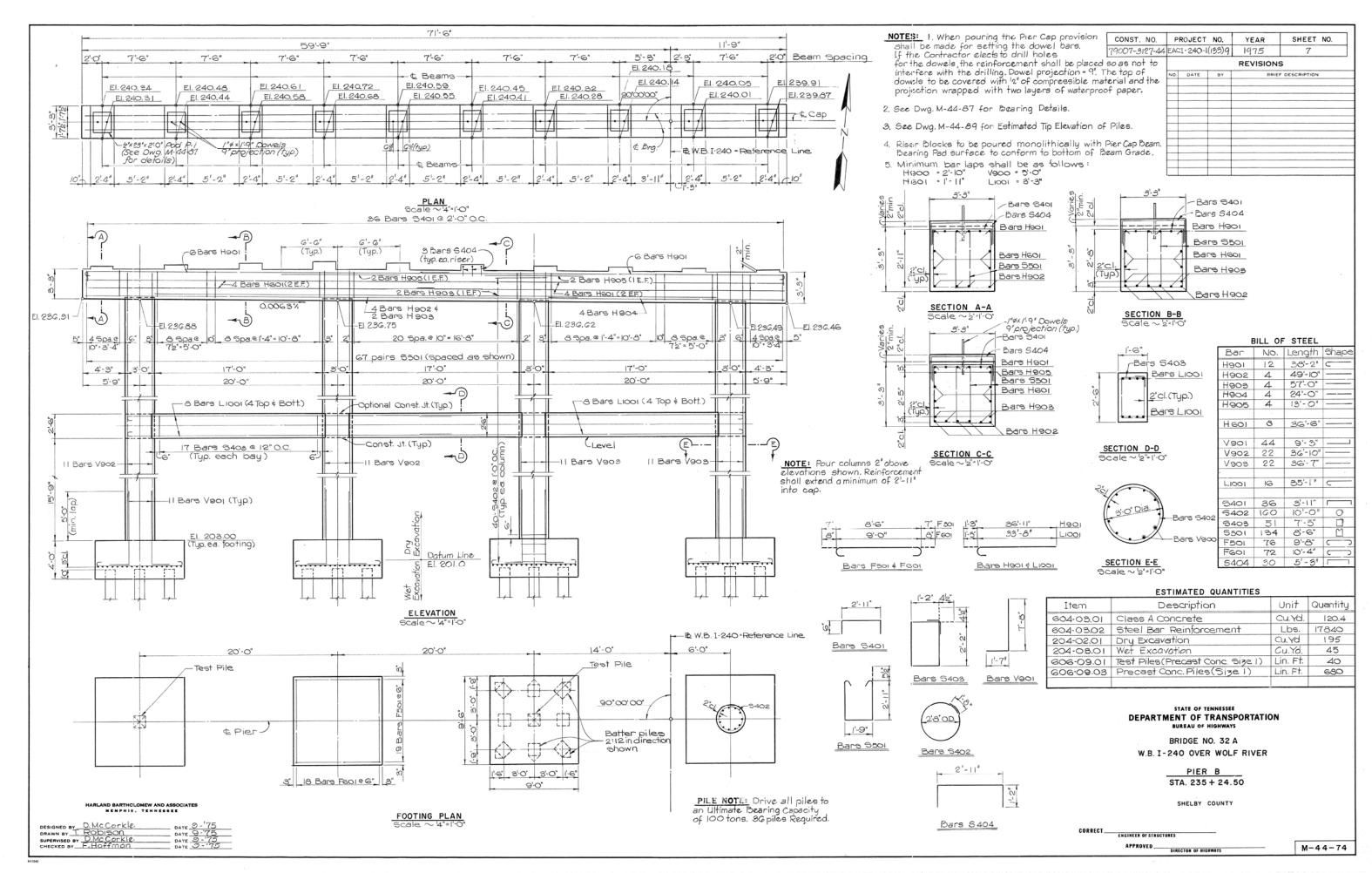
CORRECT_____ENGINEER OF STRUCTURES

APPROVED ______ DIRECTOR OF HIGHWAYS

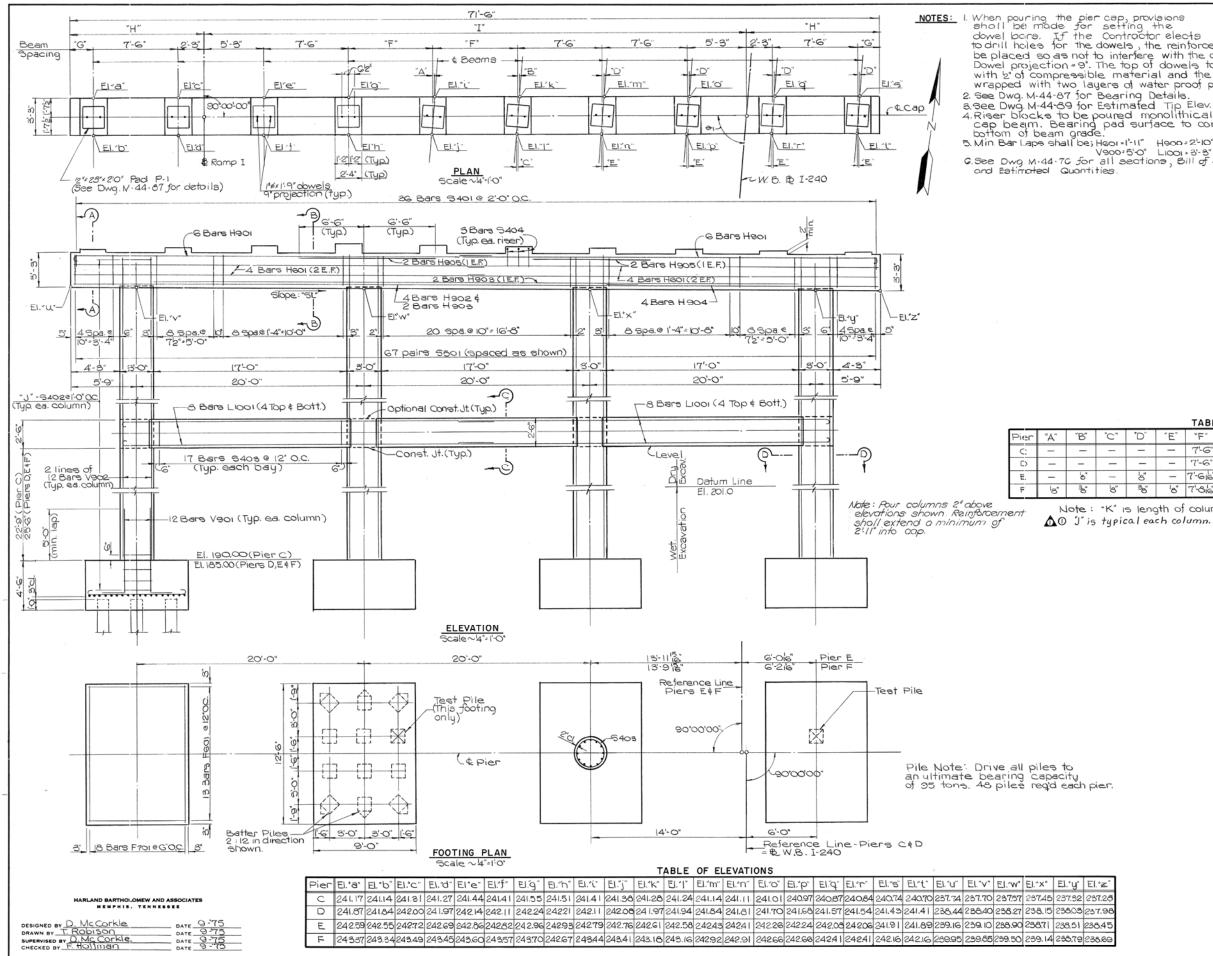
M - 44 - 72



# 5 MICROFIL



MCROFIL MED



MICROFILMED

o, provisions	CONST. NO.				YEAR	SHEET	NO.
tractor elects	79007-3127-4	4 EA	CI-240-/	(133)9	1975	8	
els , the reinforcement terfere with the drilling					REVISIONS	5	
top of dowels to be	ig.	NO.	DATE	BY		F DESCRIPTION	
		T	9-7-76	CEH	Note adde.	d	
naterial and the proj		-					
of water proof paper	<b>~</b> .						
ring Details.							
mated Tip Elev. of 1	Diloo						
maled the elev. of t	P1125.	-					
ed monolithically w	nn pier						
d surface to conform	n to						
		-					
=1'-11" H900=2'-10"		-					
=5'-0" L1001=3'-3"		-					
sections, Bill of Stee							
		-					

TABLE OF VARIABLES  $\Lambda$ 

			INDE	- O.	14111		هنه			
"	*D″	Ϋ́Ε̈́	۴"	"Ĝ	Ψ,	Ϋ́Ι.	"J <i>"</i> 0	°К″	 Slope*SL"	θı
-	-		7'-6"	2'-0"	11'-9"	48'0"	54	27'-11"	0.00644	<i>30</i> °00,00,
-			7'-6"	2'-0"	11'-9"	48'-0"	59	30'-9"	0.0064%	30,00,00,
-	8	-	7-66	1-11%	। <u> </u> -ଚାର୍ଚ୍ଚ	48'-05	60	31'-1"	0.0099%	89°56'24°
3″	ేం	¹ 8"	7'-86	1-915	11'-6'5"	48'4'8	60	31'-6"	0.0176%	89°28' 17'

Note : "K" is length of column bars vaoz.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

BRIDGE NO. 32 A

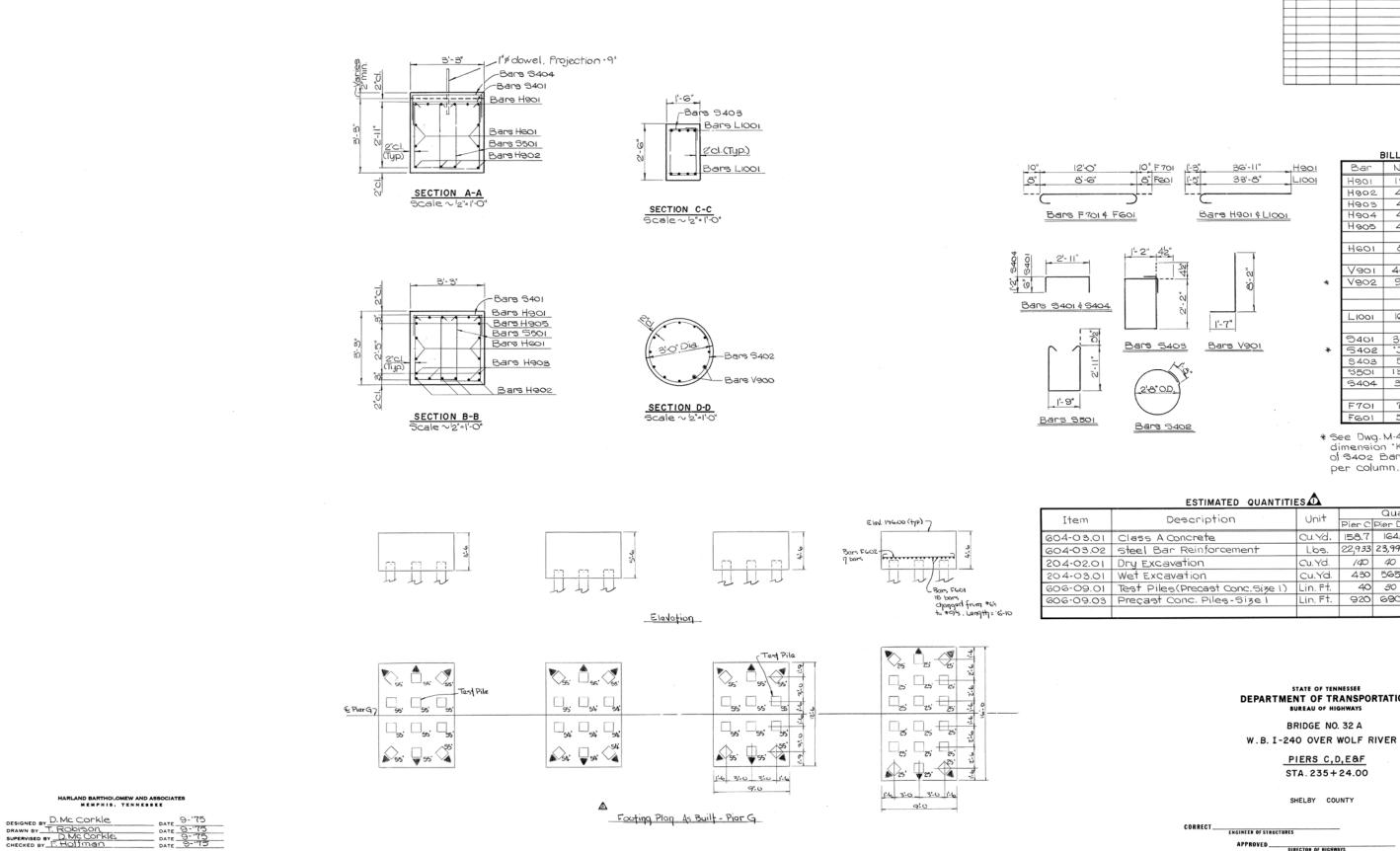
W . B. I-240 OVER WOLF RIVER

PIERS C,D,E&F STA. 235+24.00

SHELBY COUNTY

CORRECT _______ ENGINEER OF STRUCTURES

APPROVED ______ DIRECTOR OF HIGHWAYS



	-					
CONST. NO.	F	ROJECT	NO.	YEAR	SHEET	NO.
79007-3127-44	EA	CI•240-4	(133)9	1975	9	
				REVISIONS	5	
	NO.	DATE	BY		DESCRIPTION	
	1	9-7-76	CEH	Rein. Steel		
	Δ	3-1-77	ret	Added footing P	lan s aladation	for pion G
	-					
	⊢					
	$\vdash$					
	-					at the set of the set
	$\vdash$					
	$\vdash$					

*

H901	12	38'-2"	
H902	4	49'-10"	
H903	4	57'-0*	
H904	4	24'-0"	
H905	4	13'-0"	
Heoi	8	36'-6"	

Bar No. Length Shape

BILL OF STEEL (PER PIER)

	V901	48	9'-9"	
	V902	-96	"К″	
	L1001	6	35'-1"	
	9401	36	3'-11"	г — 1
.	5402	۰ <i>J</i> ″	10'-0"	0
	5403	51	7'-5"	
	5501	134	8-6	Ш
	5404	30	5'-3"	
	F701	72	13'-6"	$\frown$
	FGOI	52	9'-10"	

* See Dwg. M-44-75 for dimension "K" and number of 5402 Bars 'J" regid per column.

	ESTIMATED QUANTITI	es 🕰							
	Description	Unit		Quantity					
	Description	0111	Pier C	Pier D	Pier E	Pier F			
.01	Class A concrete	Cu.Yd,	158.7	164.6		166.1			
.02	Steel Bar Reinforcement	Lbs.	22,933	23,991	24,127	24,263			
.01	Dry Excavation	Cu. Yd.	140	40					
10.0	Wet Excavation	Cu.Yd.	430	565	495	495			
.01	Test Piles(Precast Conc. Size I)	Lin. Ft.	40	30	30	30			
.03	Preçast Conc. Piles-Size I	Lin. Ft.	920	690	690	690			

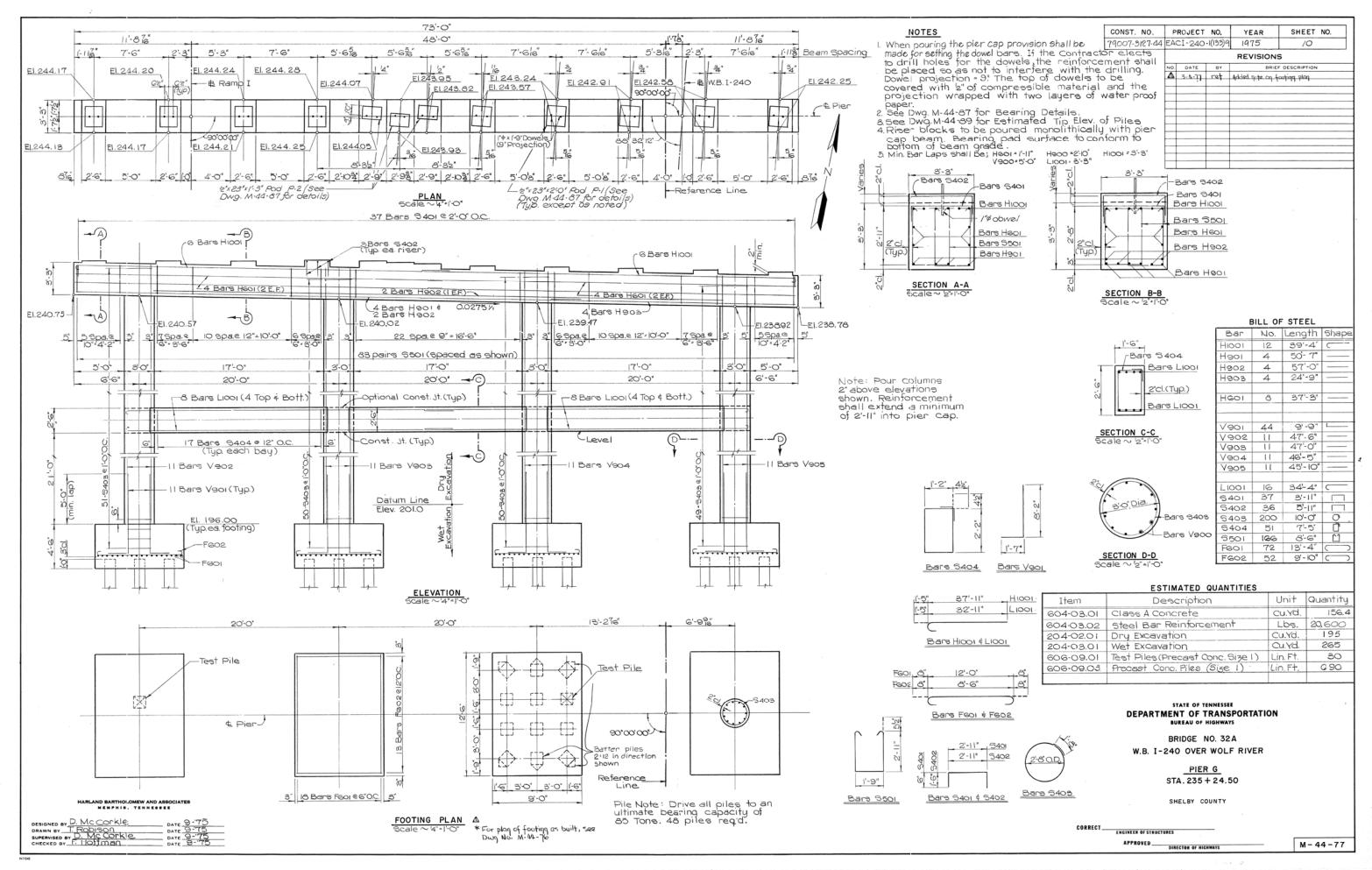
### STATE OF TENNESSEE

BRIDGE NO. 32 A

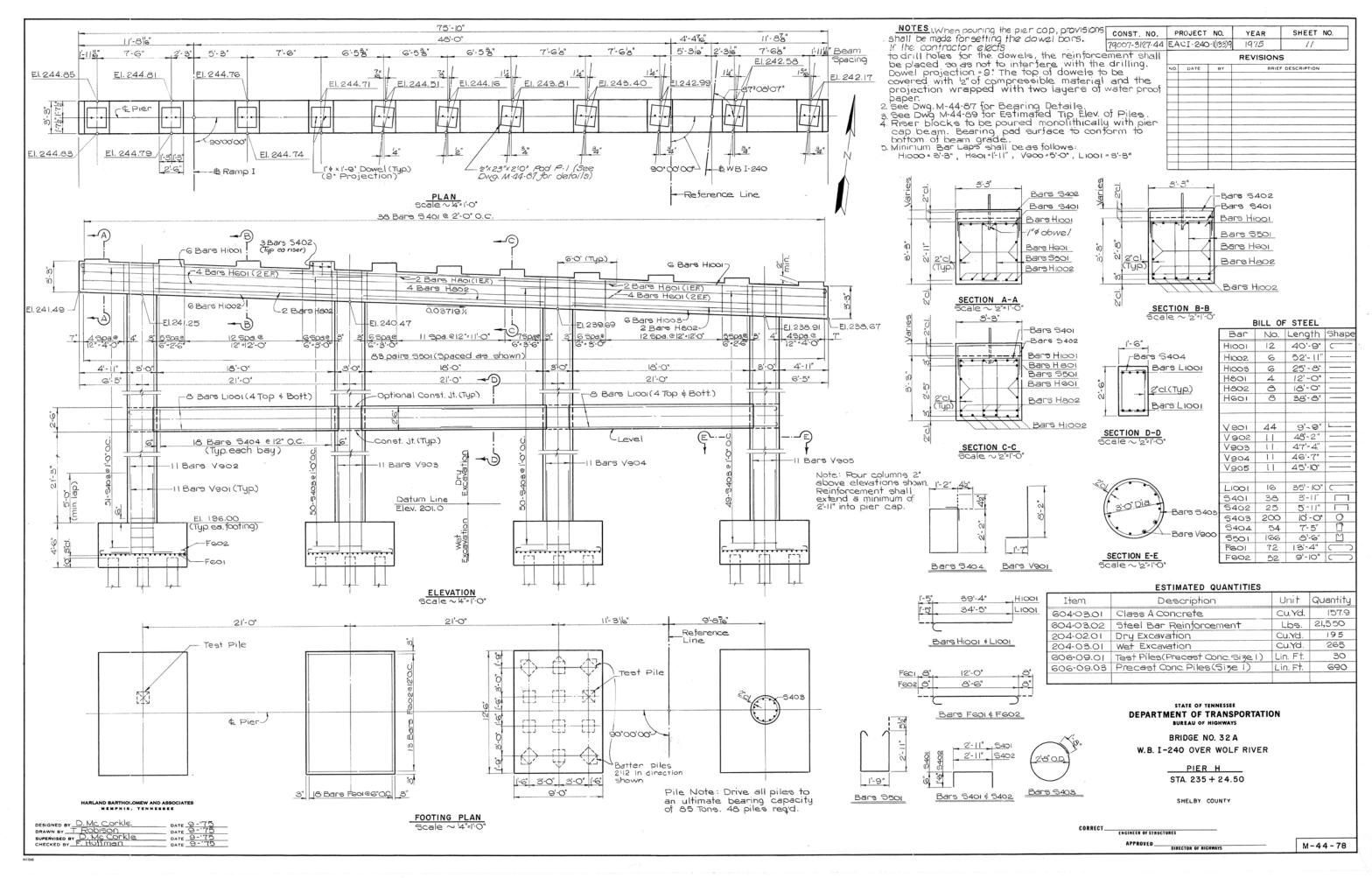
PIERS C,D,E&F STA. 235+24.00

SHELBY COUNTY

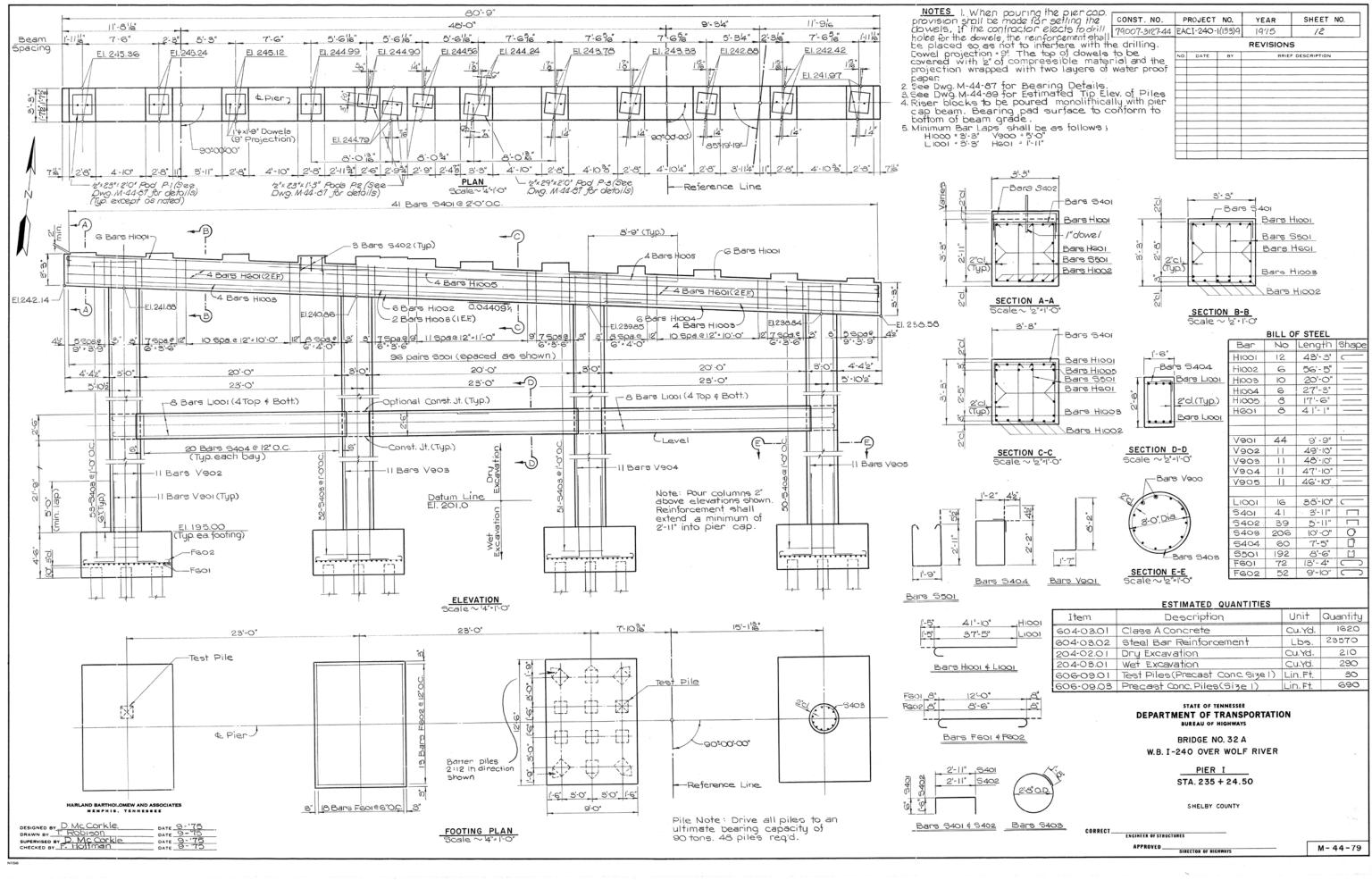
APPROVED ______ DIRECTOR OF HIGHWAYS



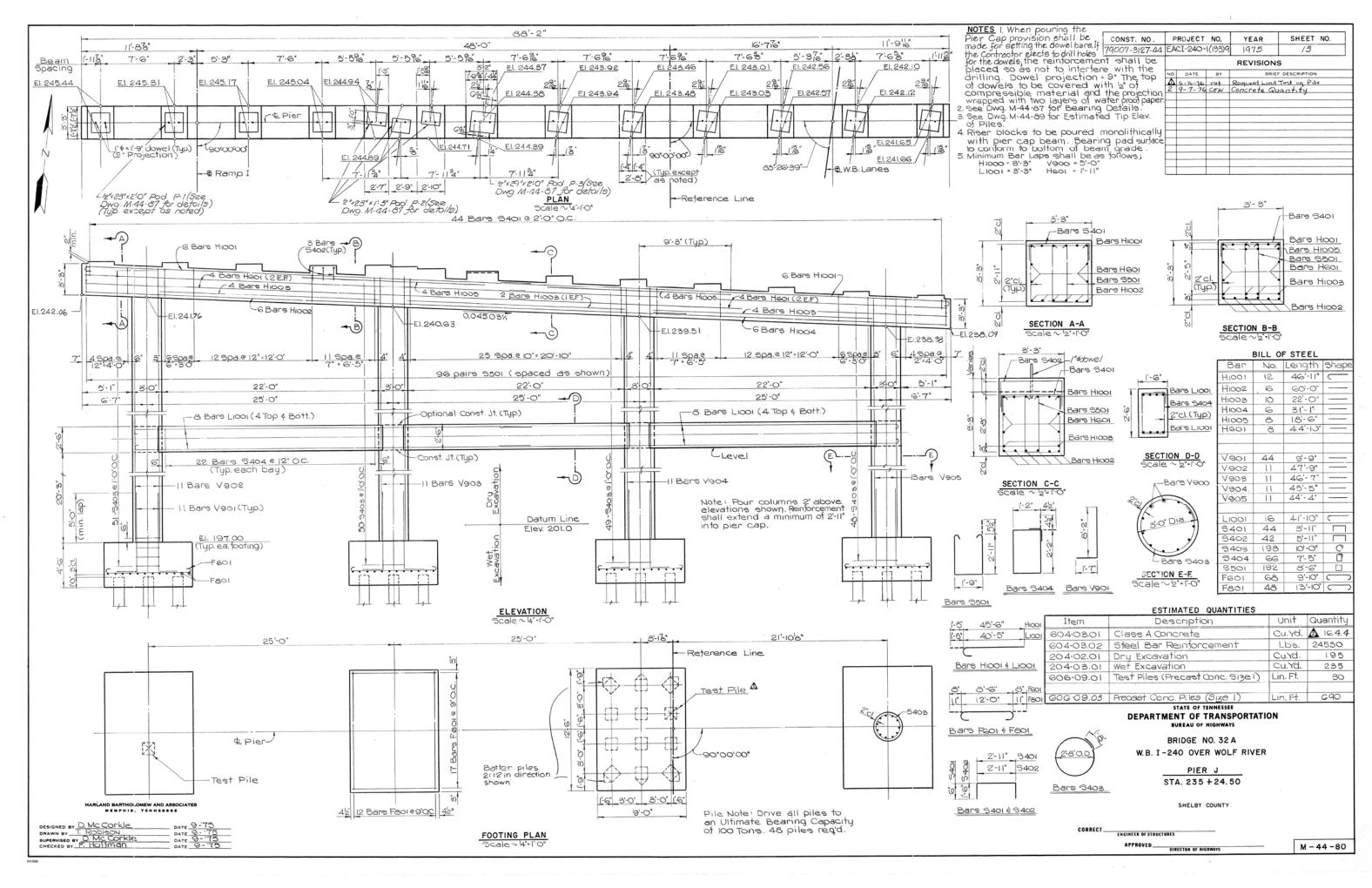
â MICROEN



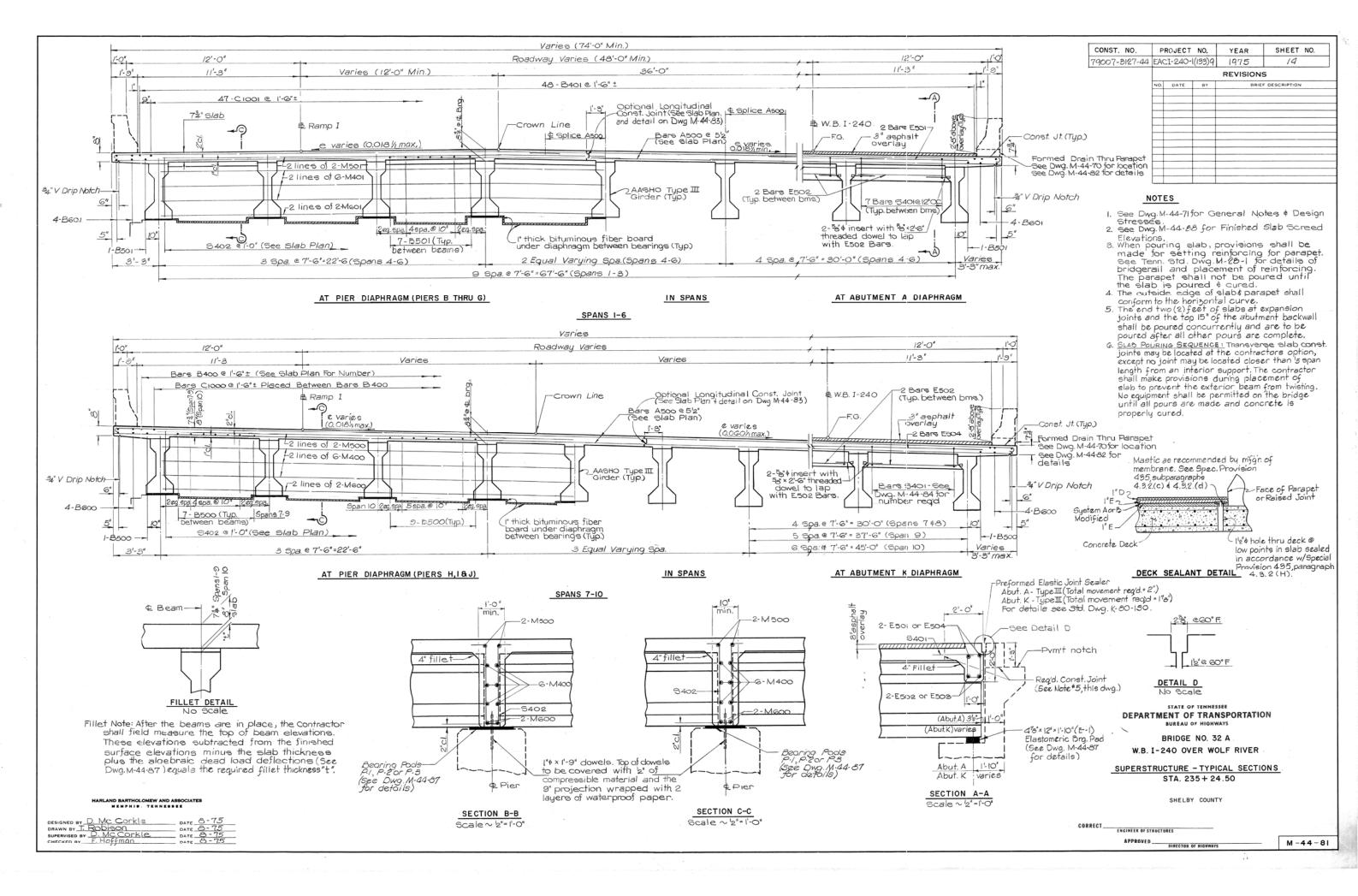
<u>a</u> MICROFILM



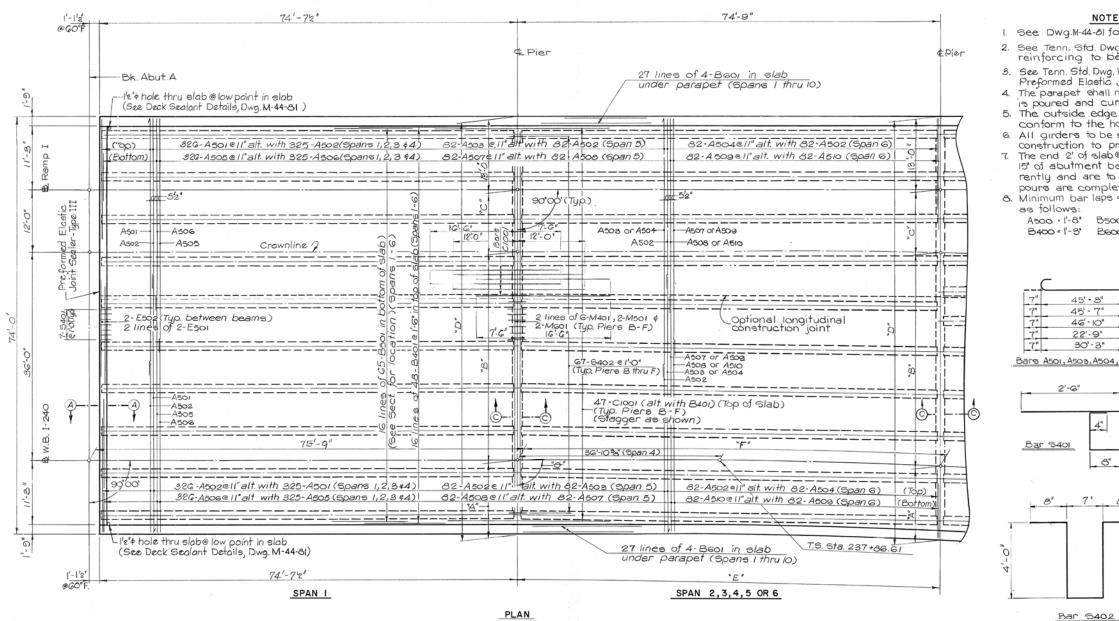
MICROFILMED



MICROFILMED

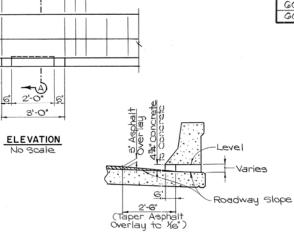


ICROFILME!



Scale ~ 8"- 1'-0"

Vertical Barse 1'-0" O.C. in parapet (Typ. between drains) TABLE OF DIMENSIONS AND ANGLES `А″ **'**В″ "C" "D" *Е" *F Ψ, 90°00'00 & Pier B 13'-0' 36'0' 74'-0 12'-0' 74'-9" 74'-9" Span 2 74'-0" & Pier C 18'-0' 36'-0" 12'-0" 90:00:00 Span 3 74'-9' 74'-9" 13'-0" ¢ Pier D 36'-0" 12'-0" 74'-0" 90°00'00 Span 4 74'-9" 74'-9" 74'-0'8" 89:56:24 ∉Pier E 13'-0' 36'-0" 12'-08" 20. 74'-9" 74'-9" Span 5 ìO. € Pier F 13'-0" 36'-0' 12'-4'8" 74-4'8 89:28:1 74'-9'8" 74'-9'8' Span 6 36-04 13-68 75-74 € Pier G 13'-0'8' 88:32-12 ISOMETRIC OF DRAIN No Scale



SECTION A-A

6" 6" Vertical Bars e 1'-0" O.c. in parapet (Typ. between drains)

6 6

-A

HARLAND BARTHOLOMEW AND ASSOCIATES

DESIGNED BY D. McCorkle DRAWN BY T. RODISON SUPERVISED BY D. McCorkle CHECKED BY F. Hoffman date 8-75 date 8-75 date 8-75 date 8-75

NICROFILMED

TES		CONS	T. NO.	PROJ	ЕСТ	NO.	YEAR	SHE	ET NO.
	Gasti	7900	7-3127-44	EACI-2	40	1(133)9	1975	15	5
for Typica							REVISION	NS	
wg. M-28-1 f be placed	in sla	ib.		NO. DA	TE	BY	BR	EF DESCRIPT	ION
g. K-80-130 5 Joint Seale	for deta r.	ails of							
I not be pou ured.	ired un	til the 🤅	dala						
e of slab ¢	Parape	et shal	I						
horizontal	curve.	alab							
e supported prevent rot	ation	SIGD							
be the expan		int and	top			+			
backwall s	hall be	poured	concur-						
to be poured	after	all oth	er						
lete.	,,			BILL O	FS	TEEL			
s shall be	Mark	No./Regid	Length	Shape	I		No./Regid	Lenath	Shape
	A501	652	45'- 10"	C		ESOI	4	36'-2"	
500 = 1'-7"	A501	980	30'-3"			E502	36	5'-10"	
300 = 2 ¹ -2"	A502 A503	164	46'-2"	<u> </u>		E503	6	7'-0"	
	A505	164	47'-5"			E504	4	49'-5"	
	A504 A505	652	41-6"			2004	-+	10 0	
	A505	652	34'-0"						
	A508	164	41'-9"			M 401	60	34'-9"	
	A508	164	34'-1"			M402	12	35'-6"	
A501	A508	164	43'-0"			1402	16	55 8	
A503	A510	164	38'-11"			M404	12	36'-11"	
A504	A510	486	23'-4"	C		M405	12	39'-5"	
A511	A512	486	30'-3"			M406	18	29'-3"	
A518	ASIZ	324	19'-0"			1400		25 0	
4, A511, A518	A514	486	26'-6"			МБОІ	20	34'-11"	
1,101,1010	A515	162	34'-0"			M 502	4	35'-8"	-
	1 A516		Varies			M503	4	37'-1"	
	A517	162	37'-9"			M503	4	39'-7"	
	ASIA	162	30'-10"	C		M505	4	43'-3"	
	A518 A519	162	41'-6"			14.205		45 5	
- N [#]	A520	162	34'-0"			MGOI	20	35-1	
1	@ A520	2 Sets				MGO2	4	36'-0"	
	- A021	2 213	101100			MG03	4	37'-5"	
5"						M604	4	39'-11"	
	B401	1380	29'-3"			Meo 5	4	43'-7"	
	B501	1008	29'-8"						
a1	B502	6600	26'-8"						
8'	B503	330	26'-4"			5401	150	5'-10"	
	BGOI	216	29'-9"			5402	637	9'-11"	7 6
	0.001		200			2102			
	C1001	445	24'-0"						
	2.001								

() 324 bars each set. 18 bars each length from 26'-7" to 33'-8" in 5' increments.

② 324 bars each set. 12 bars each length from 27'-0" to 43'-3" in 72" increments.

ESTIMATED QUANTITIES

Item No.	Item	Unit	Quantity
604-03.02	Steel Bar Reinforcement	Lbs.	429,650
604-03.01	Class A Concrete	Cu. Yds.	1528.8

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

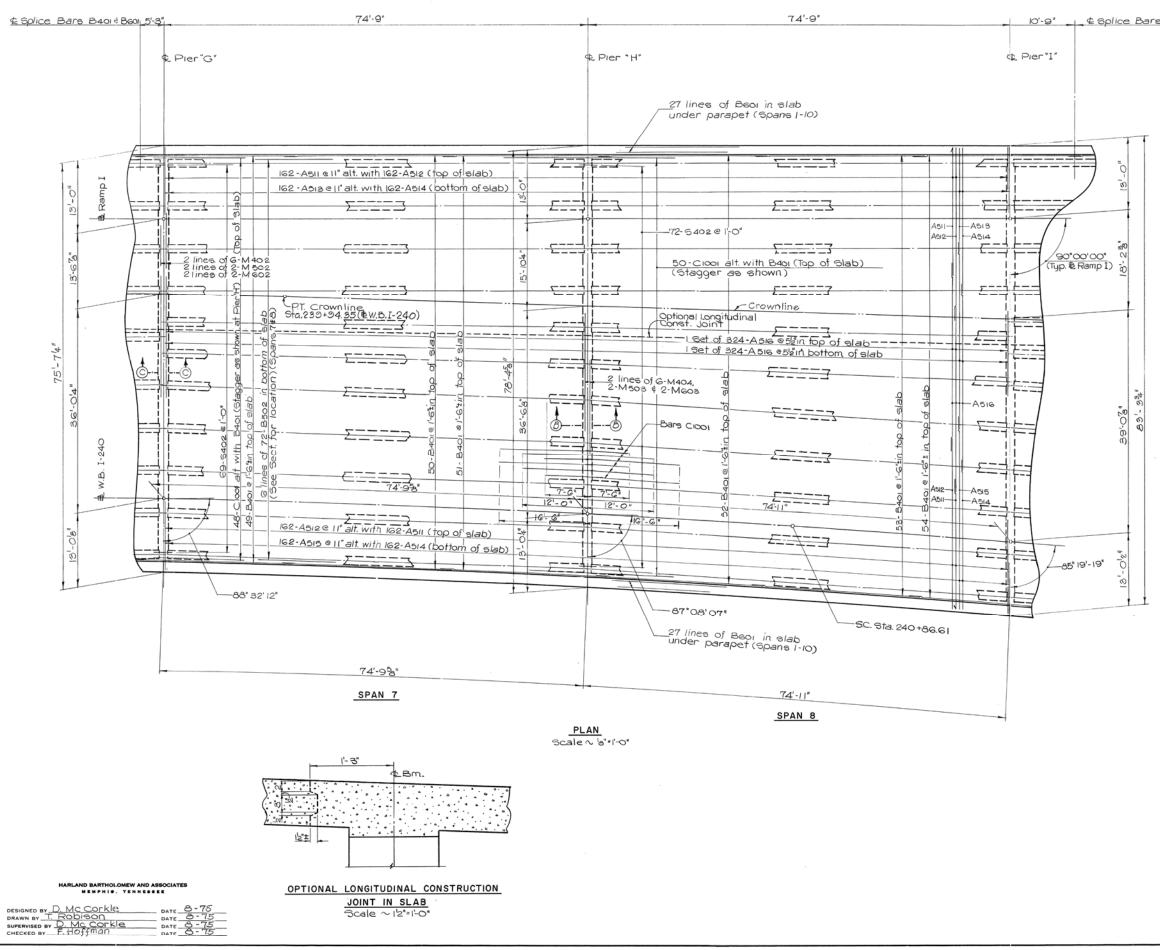
BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

<u>SLAB PLAN - SPANS I-6</u> STA. 235+24.50

SHELBY COUNTY

CORRECT ______ENGINEER OF STRUCTURES

APPROVED DIRECTOR OF HIGHWAYS



MICROFILMER

CONST. NO. PROJECT NO. YEAR SHEET NO	).
plice Bars B401 \$ B601 79007-3127-44 EACI-240-1(193)9 1975 /G	
REVISIONS	
NO. DATE BY BRIEF DESCRIPTION	

NO.	DATE	BY	BRIEF DESCRIPTION
-+			
-+-			
-+			
-+			
-			

### NOTES

- I. See Dwg.M-44-81 for Typical Sections.
- 2. See Dwg.M-44-82 for Bill of Steel \$
- See Tenn. Std. Dwg. M-28-151 for parapet
   See Tenn. Std. Dwg. M-28-1 for parapet
   reinforcing to be placed in Slab. The parapet
   shall not be poured until the slab is poured and cured.
- and Curea. 4. Minimum bar laps shall be as follows;  $A \cos = 1.5^{\circ}$   $B \cos = 1.7^{\circ}$   $B 4 \cos = 1.5^{\circ}$   $B \cos = 2.2^{\circ}$ 5. The outside edge of slab  $\neq$  parapet shall
- 6. All girders to be supported during slab construction to prevent rotation.

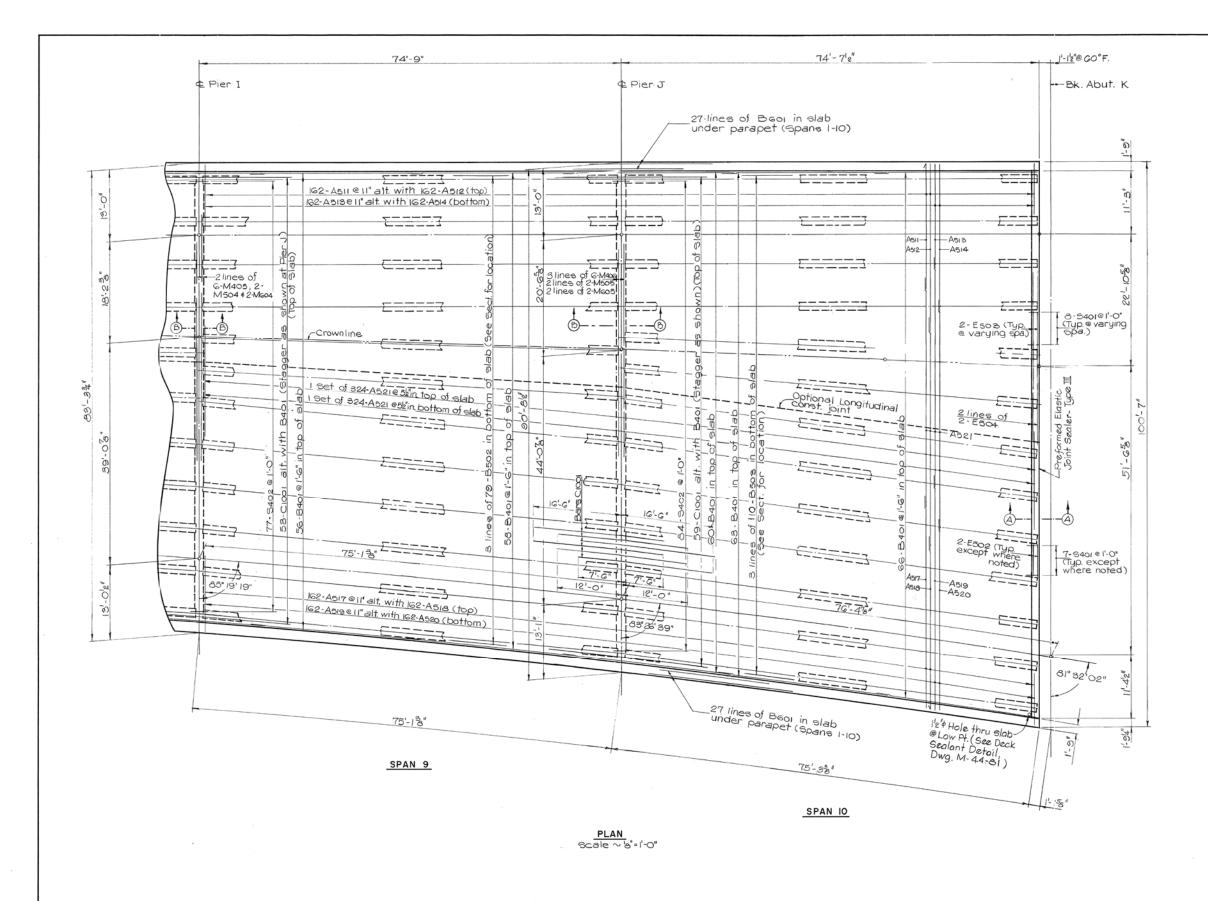


BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

> SLAB PLAN - SPANS 7-8 STA. 235+24.50

> > SHELBY COUNTY

CORRECT ______ ENGINEER OF STRUCTURES



HARLAND BARTHOLOMEW AND ASSOCIATES MENPHIS. TENNESSEE D Ma Cash la

	C1-6_3
RAWN BY T. RODISON DAT	E 8-75
UPERVISED BY D. MCCOCKIC DA	6-75
HECKED BY F. HOFFMAN DAT	

MCROFILMER

 $\mathbf{\tilde{\mathbf{v}}}$ 

CONST. NO.	PROJECT NO.			YEAR	SHEET	NO.
79007-3127-44	EAG	CI-240-1	(133)9	1975	17	
				REVISIONS	6	
	NO.	DATE	BY	BRIEF	DESCRIPTION	
	$\vdash$					

### NOTES

- 1. See Dwg.M-44-Blfor Typical Sections.
- 2. See Dwg.M-44-82for Bill of Steel & Est, Quant.
- 3. See Tenn. Std. Dwg. K-80-130 for Details of Preformed Elastic Joint Sealer.
- 4. Minimum bar laps shall be as follows. A500 = 1'-8" B500 = 1'-7"
  - B400=1-3" B600=2-2"
- 5. See Tenn, Std. Dwg. M-28-I for parapet reinforcing to be placed in alab. The parapet shall not be poured until the slab is poured a cured.
- 6. The outside edge of slab & parapet shall conform to the horizontal curve. 7. All girders to be supported during slab
- construction to prevent rotation. 8. The end 2' of the slab at the expansion joint and top 15" of abutment backwall shall be poured concurrently, and are to be poured after all other pours are complete.

### STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

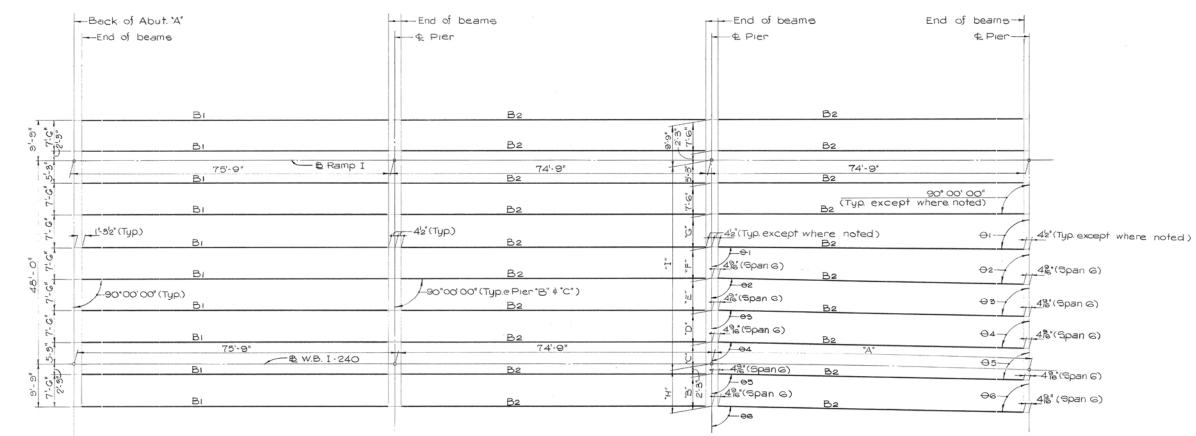
SLAB PLAN - SPANS 9-10 STA. 235+24.50

SHELBY COUNTY

CORRECT _______

APPROVED

DIRECTOR OF HICHWAYS



SPAN I

### SPAN 2 OR 3

SPAN 4,5 OR 6

 $\frac{\text{FRAMING} \text{PLAN}}{\text{Scale}} \sim \frac{3}{32} \text{H}^{-1} \text{O}^{\text{H}}$ 

	Ϋ́Α"	Β́	<b>`</b> C″	"D"	°Е″	"F″	"G"	"Н"	°I″	θı	<del>0</del> 2	÷ЭЗ	↔4	<del>0</del> 5	<del>0</del> 6
Span 4	74'-9"														
¢ Pier E		7'-6"	5'-5"	7'-6"	7'-6"	7'-616	7' 616"	9'-9"	48'-08"	89° 59' 42'	09° 59' 24	89°59'24"	89'59'24"	89'59'24	89°59'24"
Span 5	74'-9"														
& Pier F		7'-6"	5'-3"	7'-6"	7'-6"	7'-816	7'-8l6"	9'-9"	48'-4'8	89°52'23"	89°44' 46"	89°44'44"	89°44'42"	89°44'40	89°44' 37*
Span 6	74'-9'8"														
& Pier G		7'-66	5'-36	7'-6i6"	7'-6"	8'-3'2"	8'-3'2"	9'-9'6	49'-76	89° 31' 28'	89°02'57'	89°02'48"	89'02'40	89°02'32	89°02'23"

HARLAND BARTHOLOMEW AND MEMPHIS. TENNE		
T. Robison	DATE 8-75	

DESIGNED BY D. MC CORKIE DATE 8-75 DRAWN BY T. RODISON DATE 8-75 SUPERVISED BY D. MC CORKIE DATE 8-75 CHECKED BY F. HOFFMAD DATE 8-75

CONSTR. NO:		ROJECT		YEAR	SHEET	NO.					
79007-3127-44	EA	CI-240-1	(133)9	1975	18						
		REVISIONS									
	NO.	DATE	BY	BRIEF	DESCRIPTION						
	$\vdash$										
	-										
	-										
	-										

### NOTES

1. See Dwg.M-44-87 for beam details.

2. See Dwg.M-44-81 for Typical Sections @ Abutments & Piers.

STATE OF TENNESSEE BUREAU OF HIGHWAYS

BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

FRAMING PLAN - SPANS 1-6 STA. 235+24.50

SHELBY COUNTY

CORRECT ______ ENGINEER OF STRUCTURES

APPROVED ______ DIRECTOR OF HIGHWAYS

& Pien "G"End of beams		-End of beams \$\$ Pier "H"		F	End of beams		End of
	B2		B2			B2	
-2:3" 9.9.	B2	0-0" 0-0"	B2	4'2" (Typ. except where noted)	9.0" 9.0	B2	۵ ۲
A. 50	74'-9"	in	74'- 9"			74'-9"	
ki i i i i i i i i i i i i i i i i i i	B2 /		B2		Kī Vi	B2	
	B2	-0. -1	B2			B2	
		42° "RU 44° "G 7 "O	Be	88" 45' 28"	434" 99 - 20 - 455	B2	88°08' 42" 43"
40 50 50 50 50 50 50 50 50 50 50 50 50 50		48 10 415 10 416 10	B2	87° 30' 59"	416 TRANC	Be	86° 17' 38"
410 410 10 10 10 10 10 10 10 10 10		-4100" \$2.9 510" \$2.9 510" .9	B2	/	00 	вэ	81° 271
418		4 ¹³ , 20 5 ⁷ , 0 5	B2		65° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Вз	84° 25' 57" 4 ⁵ " 4 84° 25' 57" 4 ⁵ " 4 64° 25' 57" 4 ⁵ " 4 ⁵ "
	74'-9%	4 ¹³ " 0 <del>7</del> 576" <del>-</del>	B2		Ci j	Вз	84° 24'
	B2		74'-11" B2	86' 14' 100	52" "0 4 16 9 	<u>Ba</u> 75'- 1°6"	84° 23' 45° 43° 10
	B2 87° 52' 05	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B2		416	Bs	84° 22' 39" 45° 10
			D2		5'2" " 9 9 0 - 4 1 8 - 9 9 0 - 5 - 6	Ba	

SPAN 7

SPAN 8

SPAN 9

 $\frac{\text{FRAMING}}{\text{Scale}} \sim \frac{3}{32} = 1^{2} - 0^{4}$ 

### NOTES

- See Dwg.M-44-87 for details of beams.
   See Dwg.M-44-81 for typical sections e abutments & piers.
   Skew angles at opposite piers are identical to those shown.

HARLAND BARTHOLO	MEW AND	ASSOCIATE	s
MENPHIS.	TENNES		
D. Mc. Corkle		DATE	8-7.

MICROFILINED

							-			
			CONST. NO.		ROJECT			YEAR	S	HEET NO.
			79007-3127-44	EAC	21-240-1(	133)9	· · · ·	1975		/9
							R	EVISION		
				NO.	DATE	BY		BRIE	F DESC	RIPTION
					<u> </u>					
d ~f	h	eams								
a of Dier										
-er	J			H			-			
			_	_1			ı .		£	+ 11-01
			En	d	of bea	ms-	1	-Bk. o	J Ab	NUT. K
							], [	,1'-3'2'		
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=								1011	70 -	
012	. <del>6</del> -6	× .	Bi			-	Ψĺ	1'-3'2" "		
	0						1		5	
23	=	75'-9"	CONTRACTOR OF A DESCRIPTION OF A				H		ΰ,	1
N IO	_		BI				+	<u>-</u> ]'-3'2"	τά	
10						-	71		0	
2-6			Ві			-	† i	<u> '-3'2"</u>	2, C	
5-56	900 00						H			
5-21	Ň		Bi	87'	°31'20	»"	Τl	1-38	8'-8'	
	Л					1	11			
	2		в.	8=	° 0.21		H			
5:08:	13		Bi	_0	° 03' 13	°√-	+1	1'-4'2"	ଟ୍ଟାର ଜୁନ	
							+	1	0	
			B4	82	° 36' 12		11		ŵā.	no.
7-68"	5					_7-	†  ,	1-358"	9	0
-0	1-10		B4	82	° 34' 40		Ħ	r	100	4
9	64'-7 ⁷		24	_	54 4	°√_	11	1'-3"16"	Ū,	
ř-	0					_1	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7'-6/5" 7'-6/5" 8'-8'5"	
7'6%	1		Ba	95	° 33' 19	<b>≥</b> ″_∕	1.1	1'-32"	50	
۲ <u>.</u>				_		-(-	Į,	H-34"	γ i-i	
6 ² 9			B4	32	° 31' 51	. /	P			
Ģ ∠						7-	+1	1-321	7'-7"	
	-		B	80	·		1	(		
5-36		76	<u>B4</u> '-4'8"	22	2° 30' 25	3"-/_		1'-3'3"	,2-,2	
	_			-			7	/ _	1	
2'-3'8" 7'-6'3	40		B4	95	° 28' 54	1"	17	1 6	5-36	
1 6	0-10						+	0	1-0	4
	Ť		B4	82	2° 27' 2		H	⊢-T-3 ² 8″	70	9
				_	-12	4-/-	41	<u>/-315"</u>	7-7	ž
							V		P.	<u> </u>

### SPAN IO

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

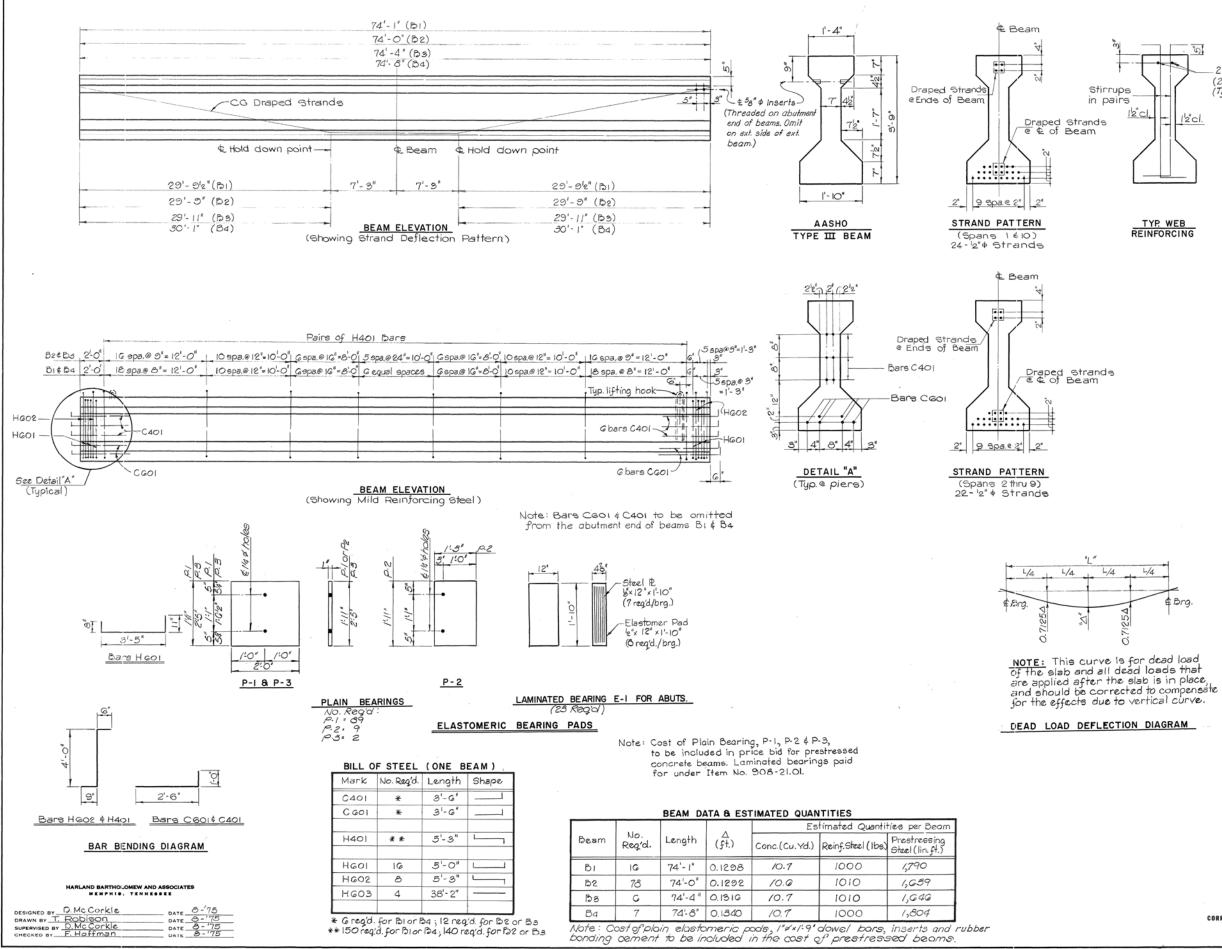
BRIDGE NO. 32 A W.B. I-240 OVER WOLF RIVER

FRAMING PLAN - SPANS 7-10 STA. 235+24.50

SHELBY COUNTY

CORRECT ______ENGINEER OF STRUCTURES

APPROVED DIRECTOR OF HIGHWAYS



MCROFILINEL

	CONST. NO.	PROJECT NO.	YEAR	SHEET NO.
	79007-3127-44	EAC1-240-1(133)9	1975	20
	<b>N</b>		REVISION	5
<u>ارة</u>		NO. DATE BY	BRIE	F DESCRIPTION
	_2-Bars H603			
rups	(2 bar runs)			
airs	(Typ. ea.beam)			
12°CI. 12°CI.				
-				
	NOTES:	all beams, are	to be ro	woh floated
	At approxim	nately the time	of initial	set, the top
TYP WEB	versely w	vith a coarse	wire br	ush to remove
REINFORCING	all laitand	ce and produ	ce a roug	gh surface.
	2. Mild reinfo	orcing shall b	e A.S.T.M. A	615 Grade 60.
	3. All prestre	essing strand	s to be 12	+ high strength
	prestressi	k 7 wire un ing strands.	icoated a	tress-relieved
	4. An initial to each e	force of 28,9 strand in all	910 lbs. s beams.	hall be applied
	5. All beam	s are AASHTO	D-PCI Sta	andard Type III.
5	ing bed, horizontal permit t	beam is remo the bars CG ly a sufficien he. "C" bars o hen in the er	ioi¢ C40i e it amount i of adjoining	so as to 1 beam to

- 7. The prestressing strands shall be cut flush at abutment ends of beams and a pro-tective coating placed on the ends of beams. At the pier ends of beams, the prestressing strands shall be left pro-jecting attrom the ends of the beams. There shall be no protective coating placed on the ends of beams or on the projecting strands.
- 8. The concrete for this construction shall be of such properties as to attain a compressive strength of not less than 5000 P.S.I. at the age of 28 days and stress transfer shall not be made to the bridge member until the test specimens indicate that the concrete has reached a compressive strength of at least 4000 P.S.I. See Dwg. M-44-71 for concrete Finishing Note (Note *7) The cost of furgishing and placing all plain
- 9. The cost of furnishing and placing all plain Elastomeric Pade, dowel bare, inserts and rubber bonding cement shall be included in the bid price for the beams.
- 10. All beams to be supported during slab construction to prevent rotation.
- Elastomeric bearing pads shall conform to Section 25 of AASHTO Standard Specifications for Highway Bridges (1973) plus Interim (1974).
- 12. Plain Bearings may be made of 70 durometer hardness Elastomers, Laminated Bearings shall be made of 50 durometer hardness Elastomers.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

BRIDGE NO. 32A W.B. I-240 OVER WOLF RIVER

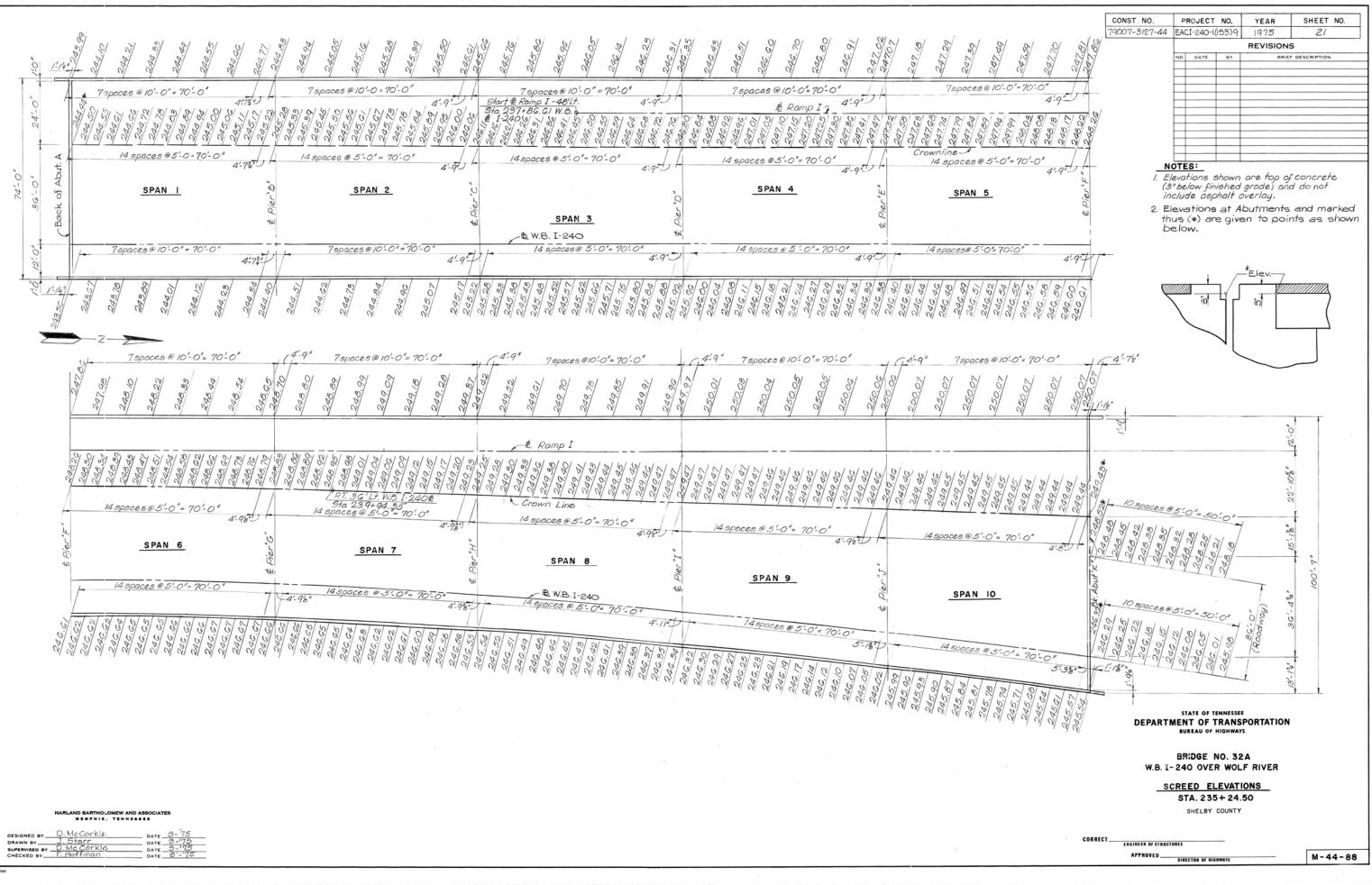
PRESTRESSED BEAM & BEARING DETAILS STA.235+24.50

SHELBY COUNTY

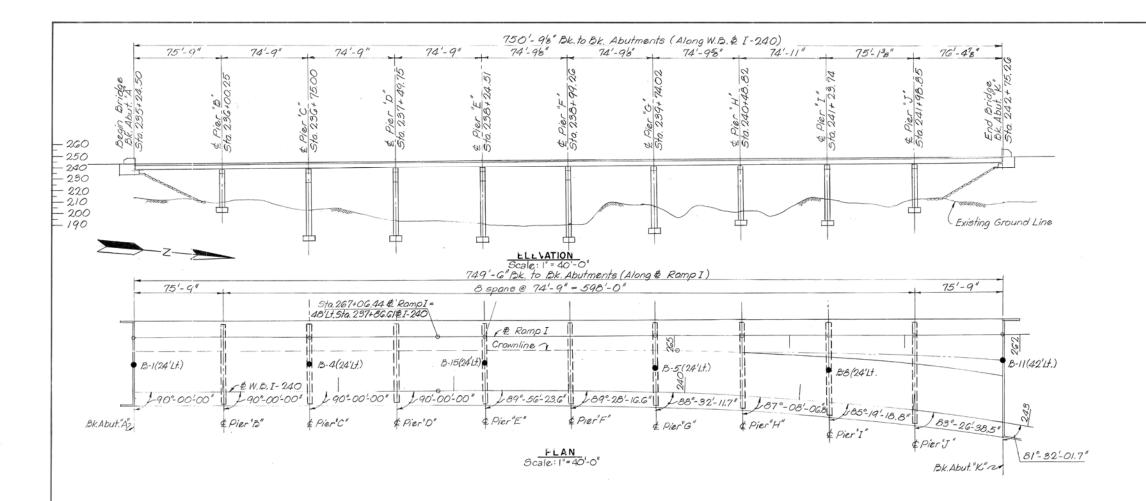
CORRECT___

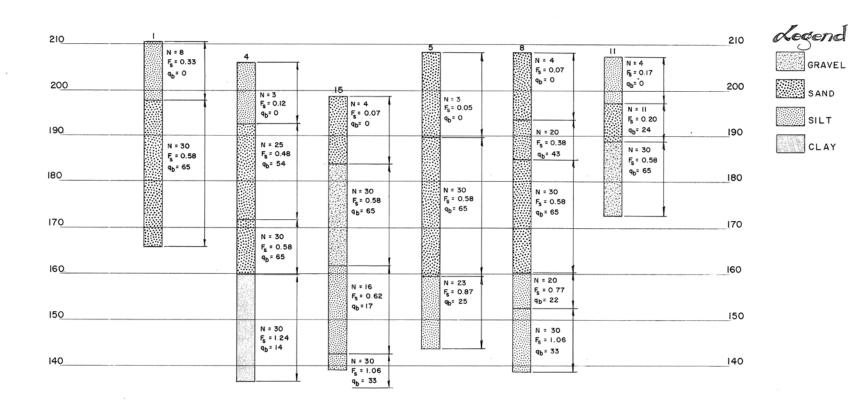
APPROVED____ DIRECTOR OF HICHWAYS

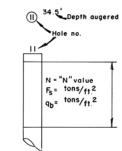
ENGINEER OF STRUCTURES



ILMED MICE







MICROFILMED

CONST. NO.	PROJECT NO.	YEAR	SHEET NO.
79007-3127-44	EACI-240-1(133)9	1975	22

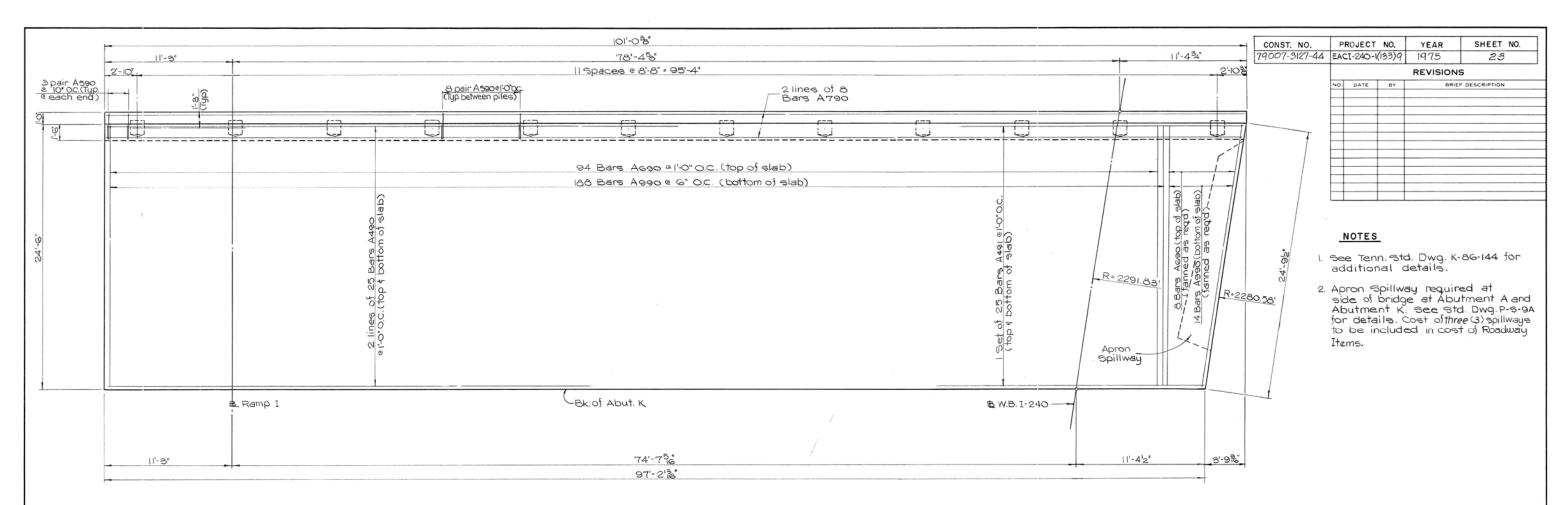
PILE DATA						
Location	Design Load ()	Cut-off Elev.	Est. Tip Elev.	Pile Length @		
Abut. A.	95 Tons	Varies	192,0	45'		
Pier B.	100 Tons	200.0	180.0	20'		
Pier C	95 Tons	186.5	166.5	20'		
Pier D	95 Tons	181.5	166.5	15'		
Pier E	95 Tons	181.5	166.5	15'		
Pier F	95 Tons	181.5	166.5	15'		
Pier G	85 Tons	192.5	177.5	15'		
Pier H	85 Tons	192.5	177.5	15'		
Pier I	90 Tons	191.5	176.5	15'		
Pier J	100 Tons	193.5	178.5	15'		
Abut. K.	95 Tons	Varies	185.0	55'		

Design loads base on factored loads.
 Pile lengths subject to change after reviewing results of load tests.

NOTE: This drawing is not to be used as a layout.

PROJECT I-240-1(83)4 <u>FOUNDATION DATA</u> E.B & W.B. I-240 OVER WOLF RIVER BRIDGE NO.32 A

SHELBY COUNTY



PLAN Scale ~ 4"=1'-0"

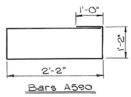
	ESTIMATED QUANTITIES				
	Item	Description	Uni+	Qua At Abut. A	At Abut. K
HARLAND BARTHCLOMEW AND ASSOCIATES	604-03.01	Class A concrete	Cu.Yd.	73.3	103.4
	604-03.02	Steel Bar Reinforcement	Lbs.	18,560	26,670
Designed by D.McCorkle_ DATE 9-"75 DATE 9-"75	606-09.03	Precast Conc. Piles - Size 1)	Lin.Ft.	90	120
SUPERVISED BY D. MCCOFKIC DATE 9-175					

MICROFILMED

В١	IL	L	OF	S٦	ΓEE	L

Bar	At Abut A		At Abut K		Change	
	No. Reqd	Length	No. Regid	Length	Shape	
A490	100	35'-8"	100	34'-5"		
A491	-	-	2 Sets	Varies*		
A590	116	7'-6"	188	7'-6"		
A690	71	24'-0"	102	24'-0"		
A790	16	36'-2"	16	51'-5"		
A990	141	24'-0"	202	24'-0"		

* 25 bars each set. I bar each length from 31'-5" to 35'-5" in 2" increments.



### STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

BRIDGE NO. 32 A

W.B. I-240 OVER WOLF RIVER

APPROACH SLAB STA. 235+24.00

SHELBY COUNTY

CORRECT ______ ENGINEER OF STRUCTURES

APPROVED______DIRECTOR OF HIGHWAYS