

35.19203, -90.00825



Asset **#79I00400070**(Load Rating) County: 79 - Shelby, Route: 10040, Log mile: 5.680 Load Rating Lead: Yun Lin, Load Rating Date: 06/05/2024

CONDITION

41 - Structure Open/Posted/Closed	d A - Open, no restriction		
58 - Deck	7 - GOOD CONDITION - some minor problems.		
59 - Superstructure	7 - GOOD CONDITION - some minor problems.		
60 - Substructure	7 - GOOD CONDITION - some minor problems.		
61 - Channel/Channel Protection	N - Not applicable.		
62 - Culverts	N - Not applicable. Used if structure is not a culvert.		
521 - Overall Bridge Cond	G - Good		

Load Rating / Post

548 - Ratings Based On	AASHTOWare BrR (4" asphalt)
505 - TDOT rating method	LRFR-RF - LOAD & RESISTANCE FACTOR RATING (RF) - HL93
65 - Inventory Rating Method	8 - Load and Resistance Factor Rating (LRFR) rating reported by rating factor (RF) method using HL-93 loadings
66 - Inventory Rating	30.46
NBI_066A	0.94
63 - Operating Rating Method	8 - Load and Resistance Factor Rating (LRFR) rating reported by rating factor (RF) method using HL-93 loadings
64 - Operating Rating	48.28
NBI_064A	1.49
516B - Single Unit Posting	
517B - Multi Unit Posting	
70 - Bridge Posting	5 - Equal to or above legal loads
534 - Posting Log Note	
552 - Posting Closure Comp	

Notes

Load Rating Assumpti	ons and QA Checklist	· Consultant Calci	ulations	
Bridge ID	Bridge Loca	tion		
Load Rating Date	Inspection Date	Current AE	OTT Cons	idered
Plans Set				
Consultant				
		Assumptions	QA	APPROVED By Rebecca Hayworth, P.E. at 8:24 am, Jul 03, 2024
Dimensions match plan	s & field conditions			REVIEWED By Robecca Hayworth, P.E. at 3:43 pm, May 24, 2024
Cross section Checked				
Framing plan Checked				
Material Properties Che	cked			
Condition Assumed for	Load rating			
Deterioration/Damage	Captured			
Shear Considered				
Rails Distribution				
Asphalt Thickness (inch	es)			
Asphalt Considered Fiel	d Verified			
Distribution Factors Ca	lc Method			
Impact Factor				
AASHTO Trucks & TDOT	Trucks Rated			
Comments				

Bridge Maintenance Recommendations Page No. Page 1 of 1

Bridge Location No.: 79 - 10040 - 0576 L Over/Under Pass No. 79 - 02806 - 0344 Co. Route Log Mile Bridge Number: **79I00400070** Crossing: Region: 04 Road Name: District: 45 Spec.Case: 0 Road Name #2: NORTH WATKINS ST. Maint.Resp.: 01 Co.Seq: 01 Bridge Rating: FAIR ' x ' a. Inspection Cycle: 16 County: Shelby Length Width Barrels Inspection Date: 8/11/2003 City: Comments: Maintenance Recommendations: Maintenance Completed: by/date UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT 233 001 LEVEL APPROACH NO. _2 004 **REPAIR EMBANKMENT AT APPROACH NO. 2** 009 CLEAN DRAINS AT APPROACH NO. 2

069 REPAIR TEXTURE COAT ON SPAN NO. _ALL (NEEDS REPAINTING)

APPROACH GUARDRAILS ARE SUBSTANDARD

COMPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE. INITIAL AND DATE RECOMMENDATIONS WHEN COMPLETED. MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) _____ BY_____ MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) _____ BY_____ MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) _____ EXPLANATIONS AND COMMENTS:



228

Diluge Mainten		Page 1 of 1
Bridge Location No.: 79 - I	0040 - 0576 L	Over/Under Pass No.: 79 - 02806 - 0344
Co.	Route Log Mile ATKINS ST. County: Shelby	Bridge Number: 79100400070 Region: 04 District: 45 Spec.Case: 0 Maint.Resp.: 01 Co.Seq: 01 @ ' x ' Barrels Length Width
Inspection Date: 9/11/01 Comments: Maintenance Recommendations:	City:	Maintenance Completed by/date

Bridge Maintenance Recommendations

Page No.____

228	APPROACH GUARDRAILS ARE SUBSTANDARD
226	GUARDRAIL TERMINALS AT APPROACH NO. 1 & 2 ARE SUBSTANDARD
001	LEVEL APPROACH NO1 & 2
009	CLEAN DRAINS AT APPROACH NO2
069	REPAIR TEXTURE COAT ON SPAN NOALL (NEEDS REPAINTING)
233	UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT
	•

COMPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE. INITIAL AND DATE RECOMMENDATIONS WHEN COMPLETED. MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) _____ BY_____ MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) _____ BY_____ MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) _____ EXPLANATIONS AND COMMENTS:

E IDOT	Bridge Condit	ion	Revised 09/12/200
STATE OF TENNESSEE	Coding Form	n County:	79
DEPARTMENT OF TRANSPORT	ATION	Route:	10040
]
		Special Case:	0
Bridge Number: (Includes Item 5A)	791004000701	Special Case: County Sequence:	0

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION VA	LUE		DNDITION CODING GUIDELINES
9 0	INSPECTION DATE 09/1	1/2001	(Va	lues for Coding Items 58, 59, 60 and 62)
	811	112003	N	
10	MINIMUM V.C. OVER DECK 99 FT	. 99 IN.	9	EXCELLENT CONDITION
	(ROADWAY + SHOULDERS)	IN.	8	VERY GOOD CONDITION - NO PROBLEMS NOTED.
520	MINIMUM V.C. OVER DECK 99 F1 (EXCLUDES SHOULDERS)	. 99 IN.	7	GOOD CONDITION - SOME MINOR PROBLEMS.
	(FT	IN.	6	SATISFACTORY CONDITION - MINOR
36	TRAFFIC SAFETY FEATURES			DETERIORATION OF STRUCTURAL ELEMENTS.
	Br. Rail Trans. Appr. Rail Terminal	SPEED LIMIT	5	FAIR CONDITION - ALL PRIMARY
		55		STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED	A	4	POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	7	3	SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE
50	CUREDOTRUCTURE			SERIOURSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL
59	SUPERSTRUCTURE	6		FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE
60	SUBSTRUCTURE	7		MAY BE PRESENT.
64	OUANI JOUANIL PROTECTION		2	CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL
61	CHANL/CHANL PROTECTION	Ν		ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE
62	CULVERT AND RETAIN WALL	N N		PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT, UNLESS
				CLOSELY MONITORED IT MAY BE
71	WATERWAY ADEQUACY	Ν		NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
			1	"IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	8		PRESENT IN CRITICAL STRUCTURAL
521	OVERALL CONDITION (Circle One)			COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING
	GOOD FAIR POOR	CRITICAL		STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE.
	8	11112003	; 0	FAILED CONDITION - OUT OF SERVICE AND
TEA		VIEW DATE		BEYOND CORRECTIVE ACTION.

REVIEW DATE

E IDOT	Underpass Condi	tion	Revised 09/21/200
STATE OF TENNESSEE	Coding Form	County:	79
DEPARTMENT OF TRANSPORTA	0	Route:	02806
		Special Case:	0
Bridge Number: (Includes Item 5A)	791004000702	County Sequence:	01
Feature Intersected:	I40-LL / N WATKINS ST	Log Mile:	3.44

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	09/11/2001 515 8////2003	(a) type underpass barrier None Exists but Needed
10	MINIMUM V.C. OVER ROADWAY (ROADWAY + SHOULDERS)	16 FT. 11 IN.	
			Revised Barrier Type
520	MINIMUM V.C. OVER ROADWAY (EXCLUDES SHOULDERS)	16 FT. 11 IN.	(B) ADEQUACY OF 0 BARRIER OR RAIL
47	TOTAL HORIZONTAL UNDERCLEARANCE	54 FT. 10 IN. 52 FT. O IN.	(C) ADEQUACY OF () TRANSITIONS
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) Circle One: (H) R	<u>16 ft. 11 in.</u>	(D) ADEQUACY OF 0 TERMINALS
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One: H R		VERTICAL CLEARANCE LISTED ON HEIGHT POSTING 99 FT. 99 IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	0 FT. 0 IN.	FT IN.
521	OVERALL CONDITION (Circle One) GOOD FAIR POOR		YES[] IGHT POSTED AT ITH APPROACHES? NO Y N/A[]
555	COMMENTS		
		······	
			8/11/2003

TEAM LEADER SIGNATURE

REVIEW DATE



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

Bridge Number:

Feature intersected:

(Includes Item 5A)

Bridge Condition Coding Form

1	County:	79
	Route:	10040
	Special Case:	0
C	county Sequence:	01
	Log Mile:	5.76

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

791004000701

I40-LL / N WATKINS ST

ITEM #	DESCRIPTION	VALUE		ONDITION CODING GUIDELINES
90	INSPECTION DATE	01/19/2000	(Va	alues for Coding Items 58, 59, 60 and 62)
		91 11 2001	Ν	NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	9	EXCELLENT CONDITION
		FT IN.	8	VERY GOOD CONDITION - NO PROBLEMS NOTED.
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	7	
36	TRAFFIC SAFETY FEATURES	FT IN.	6	SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	Br. Rail Trans. Appr. R	ail Appr. Rail Ends	5	FAIR CONDITION - ALL PRIMARY
	1 0 0	0		STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
41	STRC OPEN/CLOSED/POSTED	A	4	POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	7	3	SERIOUS CONDITION - LOSS OF SECTION,
59	SUPERSTRUCTURE	6		DETERIORATION, SPALLING OR SCOUR HAVE SERIOURSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS
60	SUBSTRUCTURE	7		IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
61	CHANL/CHANL PROTECTION	N	2	CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE
62	CULVERT AND RETAIN WALL	N		PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS
71	WATERWAY ADEQUACY	N		CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
	APPROACH RDWY ALIGNMEN (USE VALUES OF 3, 6, OR 8)	т 8	1	"IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL
521	OVERALL CONDITION (Circle (One)		COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING
-	GOOD FAIR PO	DOR CRITICAL		STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE.
		9/11/2001	0	FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
TEA	M LEADER SIGNATURE	REVIEW DATE		

E IDOT

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

Bridge Number:

(Includes item 5A)

Feature Intersected:

Underpass Condition Coding Form

County:	79
Route:	02806
Special Case:	0
County Sequence:	01
Log Mile:	3.44

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

791004000702

I40-LL / N WATKINS ST

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEA	TURES
90	INSPECTION DATE	01/19/2000 515 9111200	(A) TYPE UNDERPASS BA None Exists but Ne	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	1/ FT. / IN. _/G FT// IN.		
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	1/7 FT. Ø IN. 1/0 FT. 1/ IN.	Revised Barrier Type (B) ADEQUACY OF BARRIER OR RAIL	0
47	TOTAL HORIZONTAL UNDERCLEARANCE	51 FT. 10 IN. 5. JFT. 0 IN.	(C) ADEQUACY OF TRANSITIONS	0
54	MINIMUM VERTICAL UNDERCLEAR (EXCLUDES SHOULDERS) Circle One:	$\sim 1/1/1$	(D) ADEQUACY OF TERMINALS	0
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One:		VERTICAL CLEARANCE LISTED ON HEIGHT POST 99 FT. 99	
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u> </u>	FT	IN.
	OVERALL CONDITION (Circle One) GOOD FAIR POOR		YES GHT POSTED AT H APPROACHES? NO N/A	
555	COMMENTS			-
				-
			911120	\sim

TEAM LEADER SIGNATURE

REVIEW DATE

Bridge Loc. No: 79 - I0040 - 05.76 - L Date: 08-11-03

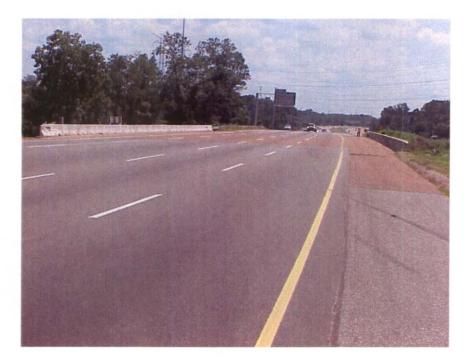


SPAN #2, BOTTOM OF DECK



BRIDGE NO. ON ABUTMENT #1

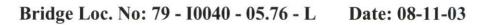
Bridge Loc. No: 79 - I0040 - 05.76 - L Date: 08-11-03

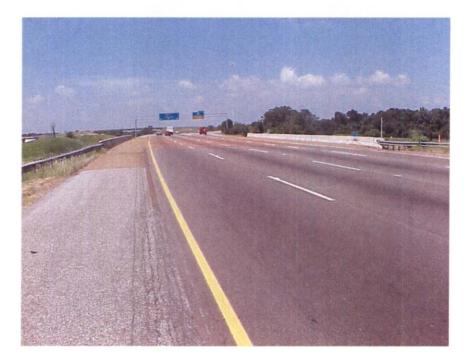


LOOKING AHEAD ON ROUTE



VIEW ACROSS TOP OF DECK





LOOKING BACK ON ROUTE

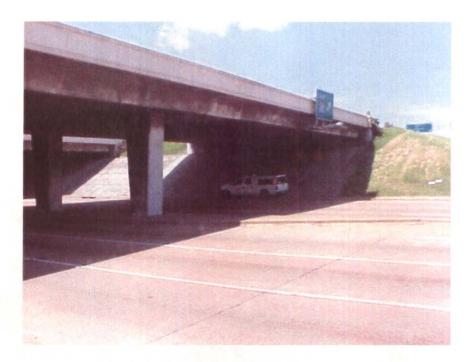


APPROACH #2 WITH ASPHALT SPALLING



Bridge Loc. No: 79 - I0040 - 05.76 - L Date: 08-11-03

COLUMN BENT



ABUTMENT #1





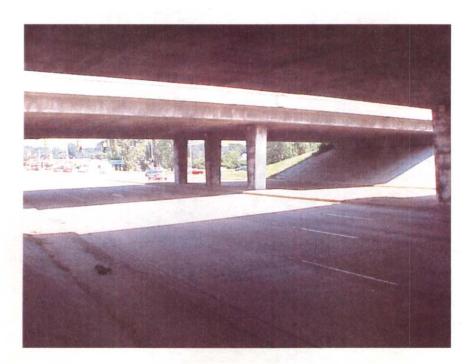
ABUTMENT #2



ELEVATION LEFT SIDE



ELEVATION RIGHT SIDE



ELEVATION RIGHT SIDE

BRIDGE INSPECTION REPORT

Form BIR 3.0	Field Report No. 16 Dat	e <u>8-11-03</u>
(Rev. 9-22-98)		te 9-11-01
DT-0069	Plans: YES()	NO ()
Bridge No. <u>79100400070</u> Bridge Location		02806 · 0344
Eleven Digit No. over	Co. Route Log Mile OV	ER/UNDER PASS
Road Name	Crossing	CITY
Year Constructed	County Shelby Maintenan	ce District 45
Year Widened Year Rehabil		
	Structure Name	e (If Named)
FEATURES	,	INSPECTORS
Wearing Surface Concrete () Timber () As	ohait (A) Depth _ // _ (in.) 1.	GREFR
Flared Width Yes () No (Median W	idth Open (<) None () Closed ()	
Navigational Control Yes () No 🔂 Bridge	Skew <u>80L</u> ° LT()RT() 3.	LOVE
Structure Type (Main Span) CONC. BOX B		ADAMS
Structure Type (Appr.Spans)		BYRO
No. Main Spans 2 No. Approach	Snane	REEVES
Maximum Span Length 106.0 (**.* ft	, <u> </u>	
Total Length 196.0 (**.* ft	, í · ·	
) [8.]	
<u>WIDTHS</u> (*.* ft.)	CLEARANCES	
Deck Out-to-Out 74.0	Min. Vertical Clearance over Deck	(ftin.)
Roadway Curb/Curb 72.0	Min. Vertical Under Clearance	// (ftin.)
Roadway Rail/Rail	Min. Lateral Under Clearance Rt.	(t(t.)) (t.* ft.)
Sidewalk Rt. Lt.	Min. Lateral Under Clearance Lt. 5	
*Approach Roadway 48	FRACTURE CRITICAL:	, *(*.* ft.)
*(Does Not Include Shoulders)	(If Yes, Include BIR 3.9)	
Approach Shoulder Rt. 12		
Lt. 12'	NBIS Bridge Length (<25 ft.)	(ft_in)
UNDERWATER INSPECTION		((t.=nt.)
To Be Performed By:	Date	
DOT FIELD TEAM () CONTRACT DIVERS ()		
Change in Structural Condition: Yes () No		s() No ‰
<u>COMMENTS</u>		
<u>N035 ° 11 ' 31.3 "</u>		
<u>W090 ° 00 ' 29.7 "</u> <u>G PS Logation</u>		
G.P.S. Location) ()
		OOR CRITICAL
Supervising Bridge Inspector:	•	

AUG 11 Date

Form BIR 3.1 (Rev. 9-22-98) DT-0080	Bridge Location No. <u>79 - 10040 - 5.76 L</u> Date Co. Route Log Mile	
PERFORMANCE EVA		
Time of Day Inspecto		
Vehicles Observed	ALL TIPES	
LIVE LOAD BEHAVI	IOR	
Substructure	YES NO Comments	
Horiz / Vert. De	efl. () (~)	
Vibration	() ()	
Superstructure		
Horiz / Vert. De	efl. () (>)	
Vibration	() (A)	<u> </u>
APPROACH	Rating Comments	
Alignment	GFPC	
Slab	GFPC NA	
Joints	GFPC X/	
Pavement	GFPC APPROACH # AC. SPALLING	
Embankment	CEAO	
Drains	OFA O	
·	Enonery SETTLED WIT	<u>A DEBRES</u> UD
TRAFFIC SAFETY FE		
Drideoroiliae		
Bridgerailing	G (D P C ()	
Transitions Guardrail	©FPC() () () () () () () () () ()	<u>. </u>
Guardrail Terminal	GFPC (A) ()	<u> </u>
<u>SIGNING</u>	YES NO NEEDED Weight Limit Posted	
Paddleboards	() (/) () YES () NO (/)
Vertical Clearance	(<14'-6") () (>) () Gross	
NARROW ()	() () 2 Axle	
ONE LANE BRIDG		
Other Signs or Plac		
Comments Regard Problems with Sigr	ling any ning: <u>OVER HEAD SIGN ON SPAN⁴I</u>	EFTSZKÓ

Form BIR 3.2 AUG 2006 (Rev. 9-22-98) Bridge Location No. 79 - 10040 - 5.76 L Date DT-0081 Co. Route Log Mile DECK Rating Comments Wearing Surface GEPC Deck - Structural G(F)P С Condition Curbs GF P С Median GFP С Sidewalks GE P С Parápet E Ρ C G Railing F P G С Paint GFP С Drains GF Ρ С **Lighting Standards** GFP С Utilities GFP С Joint Leakage GF Ρ С **Expansion Joints** GFPC **SUPERSTRUCTURE Bearing Devices** GEP С Beams BOX GÉP С Girders GFP С PCCS GFP С BOLTS (PCCS) GFP С Floor Beams GFP С Stringers GFP С Diaphragms GFP С Bracing GFP С **Trusses - General** GFP С Portals GFP С Bracing GFP С Paint GFP С G F Ρ Alignment of Members С TEXTURE COAT 069) Condition Rating F (P G Fading GF(P)C **Overall Appearance** G F Needs Spot Painting YES () NO (>>) Staining Rating GF∕₽C Needs Repainting YES, () NO() Comments **RECOMMENDATIONS:** _____ CLEAN SEAL JOINTS () CLEAN DRAINS ()

. . .

Form BIR 3.3						AUG 🔬 🖞
(Rev. 9-22-98) DT-0082	Bridge Location No.				C	Date
SUBSTRUCTURE		Co.	Route	Log Mile	PILES	
ABUTMENTS	Rating	_Coi	nments		PILE(S)	ABUTMENT
Caps	G 🕑 P C					
Breastwall	G F P C					
Wings						·
Backwall	GFPC					
	∠G F P C					·
Footing	G F P C					
Piles	GFPC					
Embankment	© F P C					
Bearing	GFPC					
Slope Paving	GFPC					
Rip Rap	GFPC			··		
Earthquake Devices				·	<u> </u>	
PIERS					PILE(S)	PIER
Caps	GFPC					
Columns	GFPC			~		
Plumb	GFPC	\overline{V}	1			
Footings	GFPC		1			
Piles	GFPC		17	/		
Bearing	GFPC //	7	$\mathcal{V}^{\rightarrow}$		<u> </u>	
Web	GFPC /	_			<u> </u>	<u> </u>
Earthquake Devices	GFPC					
<u>BENTS</u>					PILE(S)	BENT
Caps	GFPC					
Columns STEM				·		- <u></u> <u></u>
Plumb	G/G/FPC					·
ECCUSOS LIGHTS	ч«Gэгрс					
r lieg	G F P C					<u> </u>
Bearing	GFPC					
Bracing	G F P C					
Earthquake Devices	-			······		
Piles	Need Replacement:	NOA		()		
	VEGETATION		×) YES		· · · · · · · · · · · · · · · · · · ·	
	RDRIFT					
RECOMMENDATIO		NO X	() YES			

•-

orm BIR 3.0A		Field Repo	rt No. 16	Date
Rev. 9-22-98))T-1443		Previous Repo		Date <u>9-11-01</u>
Bridge No. 79100400070 Eleven Digit No.	Ur	iderpass Locat	Co. over/ 79	<u>10040 - 0576 L</u> Route Log Mile - 02806 - 0344
	o. Route	Log Mile	under <u>Co.</u>	Route Log Mile
CountyShelby /ear Constructed	Structure	Name (If Nam	ied)	
/ear Widened	Year	Rehabilitated		
Divided Highway LEFT RD Type of Wearing Surface C Width of Approach Traveled Road Width of Median if Divided Highwa Approach Shoulder Width Horizontal Clearance Under Bridge Distance Between Pier Protection Guardrail and Substructure Width of Sidewalk Under Bridge Minimum Vertical Clearance: *Show on Sketch	ONCRETE () way <u>46</u> y <u>14</u> ge <u>40</u> 1 <u>6.0</u> <u>16</u>	- ft. _ ft. Right _ ft. _ ft. Right ft. Right it. <u>]]</u> in	GRAVEL () ot Include Sho	
INAPTIO SAFETT FEATURES F	OR UNDERFAS		RD SUB-STA	NDARD NON EXIST
Pier Protection Railing or Para Approach Guardrail Transition Approach Guardrail Approach Guardrail Terminal		C () C () C ()	()	79.9.7 7
SIGNING FOR UNDERPASS RO				
Paddleboards	YES () NO	<i>v</i>		INSPECTORS
Vertical Clearance (<14'-6")			11	LEEVE S
	YES () NO			BYRD
One Lane Passage	YES () NO	(() NEEDER) () 2 . 3.	
Other Underpass Signs Need	ad			

Page 1 of 2 INSPECTION REPORT FOR UNDERPASS ROUTE Page No.
Form BIR 3.0A Field Report No. 16 Date
(Rev. 9-22-98) Previous Report No. 15 Date 9-11-01
Bridge No 79100400070 Underpass Location No79 100400576
Eleven Digit No. -Q- OF
Railroad/Walloway
County Co. Route Log Mile Co. Route Log Mile County Shelby Structure Name (If Named)
Year Constructed
Year Widened Year Rehabilitated
GEOMETRIC FEATURES UNDER BRIDGE (*.* ft. unless otherwise noted)
Divided Highway LEFT RDWY (X) RIGHT RDWY () N.A. ()
The should be sh
Width of Median if Divided Highway
Approach Shoulder Width ft. Right ft. Left
*Horizontal Clearance Under Bridge <u>52</u> ft. <u>O</u> IN.
*Distance Between Pier Protection Guardrail and Substructure ft. Right ft. Left
*Width of Sidewalk Under Bridgeft. Cent
*Minimum Vertical Clearance: <u> </u>
*Show on Sketch
TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE
STANDARD SUB-STANDARD NON EXIST
Pier Protection Railing or Parapet G F P C () ()
Approach Guardrail Transitions G F P C () ()
Approach Guardrail G F P C () () ()
Approach Guardrail Terminal G F P C () () ()
SIGNING FOR UNDERPASS ROUTE
Paddleboards YES () NO (X) NEEDED () INSPECTORS
Vertical Clearance (<14'-6") YES () NO (X) NEEDED ()
Narrow Passage YES () NO (X) NEEDED () 1. <u>REEVE</u>
One Lane Passage YES () NO (X) NEEDED () 2. <u>BYED</u>
Other Underpass Signs Needed 3.
くしていていているとうないないです。 、 しつい E 4

_		刘松 二 赵宝
Page 2 of 2		Page No
Form BIR 3.0A (Continued)	Date	
(Rev. 9-22-98)		<u> </u>
DT-1443	Underpass Location No. 79 - 10040 Co. Route	
Other Signs or Plaques: EAST	D=	Log Mile
	ICT. LOADWAY LTI STOR BREDGE	<u></u>
Comments Regarding any Problems with Signing: ハンシレー		_
BRIDGE FEATURES (*.* ft.) Bridge Skew <u>80</u> ° °LF		-
Structure Type (Main Span)	H Beam No. Main Spans	
Structure Type (Appr.Spans)	No. Appr. Spans	-
Maximum Span Length	(ft.) Total Length / 96' (ft.)	-
Width of Bridge Out-to-Out 7	(ft.) Right Angle to Centerline of Bridge)	
Width of Bridge Along Skew	(ft.) (If Unable to Measure at Right	
Number of Lanes/Tracks on Bridge	2 Angle to Centerline of Bridge)	
BRIDGE CONDITION: G)P C	
Does Potential Exist Because of Dete) NO (X YES () NO (X
	e inat would Effect Roadway Beneath:	
	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·		_
	· · · · · · · · · · · · · · · · · · ·	
Note. If Underpass Route is Divided	Highway, Use Two of These Forms, One for Eac	ch Roadway.
		•
MINIMUM PICTURES REQUIRED		
1 Elevetion Manual Distance of the		

- Elevation View of Bridge on Both Sides Showing Underpass
 View Showing Both Approaches to Bridge
 View Showing Safety Features
 View Showing Any Problems

Inspection Team's Summary Bridge Location No. 79 -10040 05.76L -

Inspection Date	08-11-03
Bridge Rating	FAIR

This two span solid concrete box beam bridge with concrete substructure is in fair condition. Standard type bridge rails and terminals but substandard guardrails. Approach #2 A.C. spalling & cracking. Approach #2 left drain broken, settled and filled with debris. Embankment washing below and backunder drain on approach #2 left. Min. vertical 16'11".

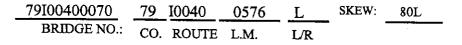
Randy Love

INSPECTOR

CROSS SECTION: YES () NO (X) PONTIS: YES () NO (X)

AUG

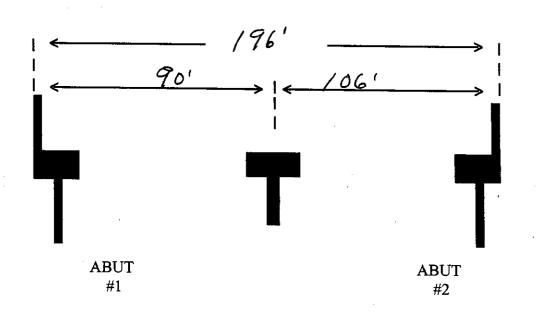
2003

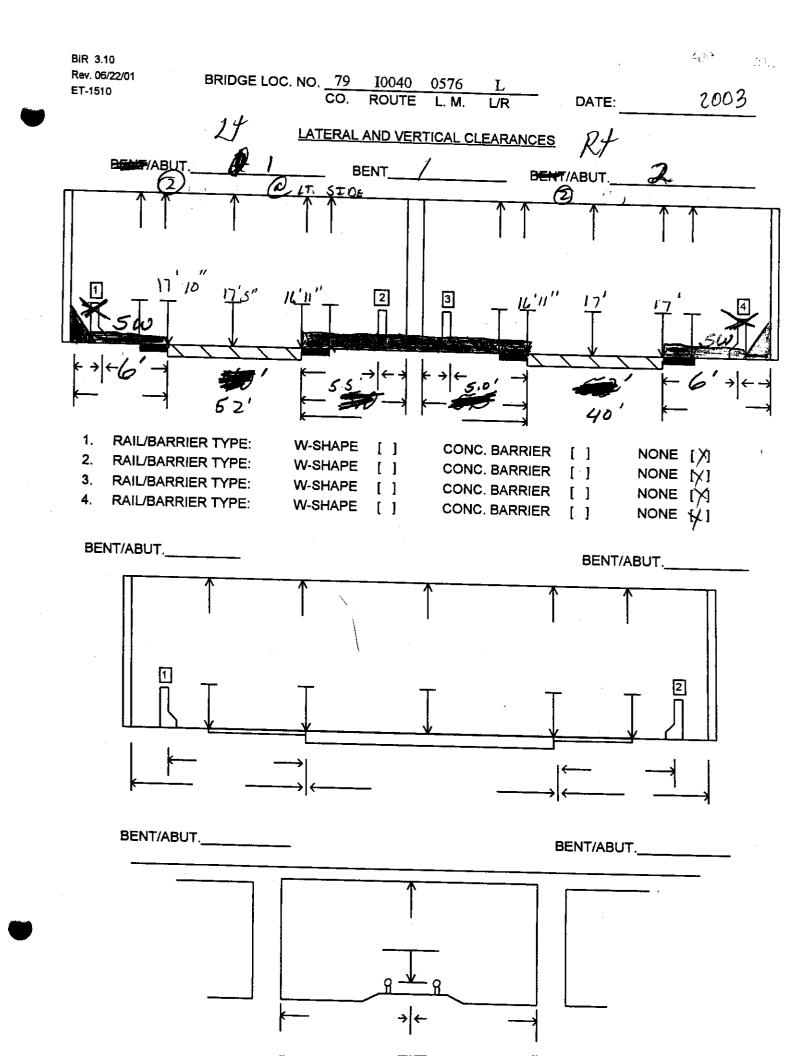


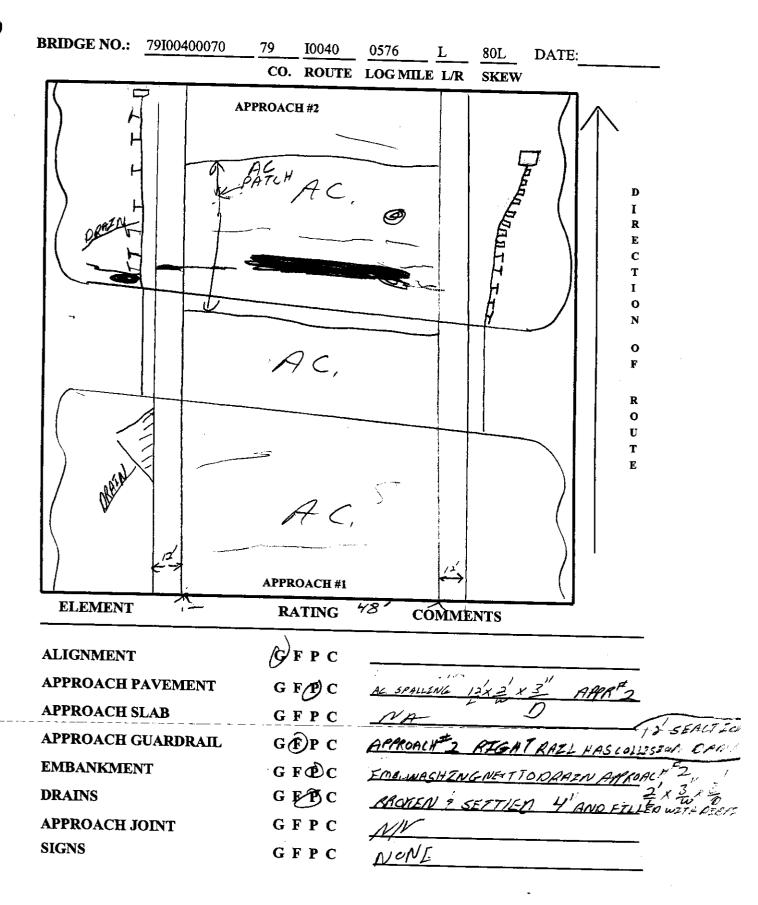
Direction of Route

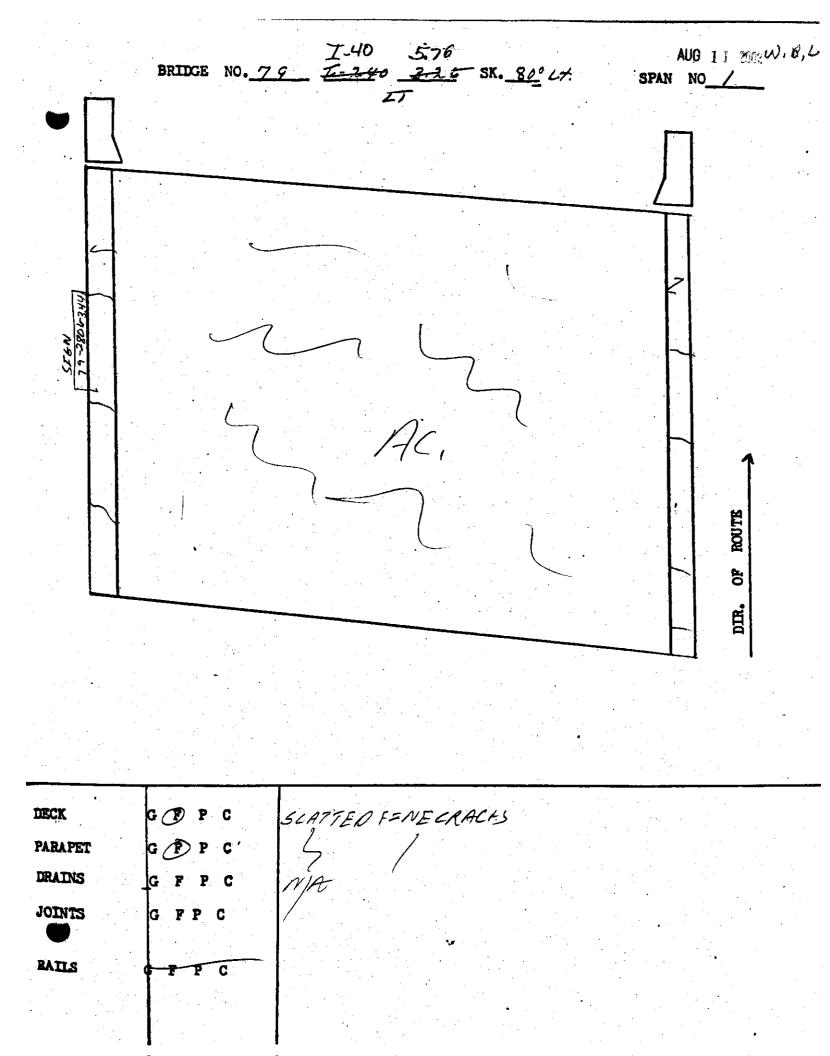
PLAN VIEW

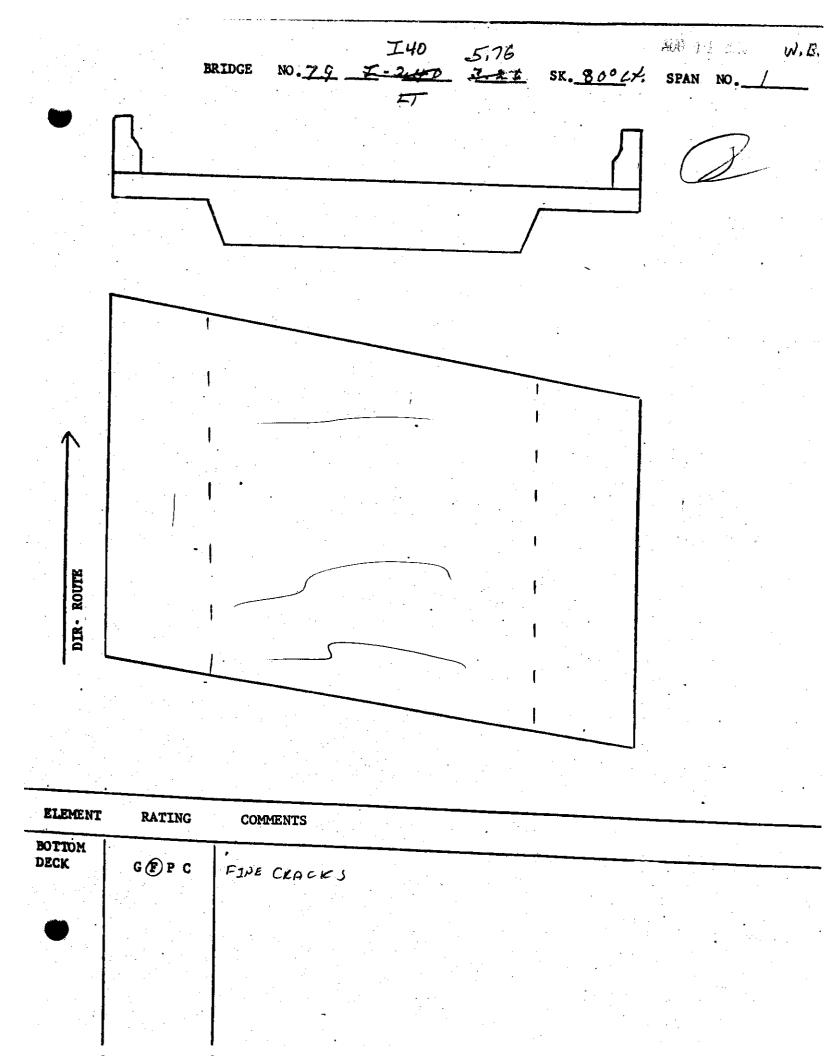
REQUIRED DATA 1. F = FIXED E = EXPANSION2. S = SIMPLEC = CONTINUOUS



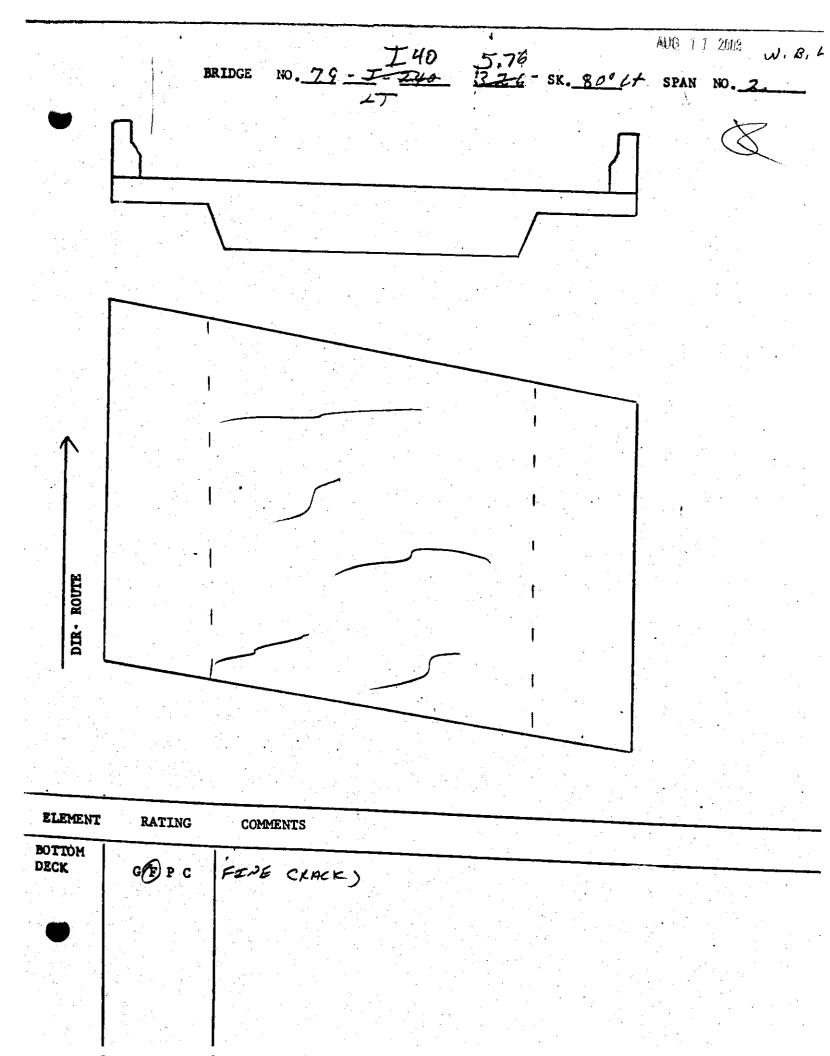




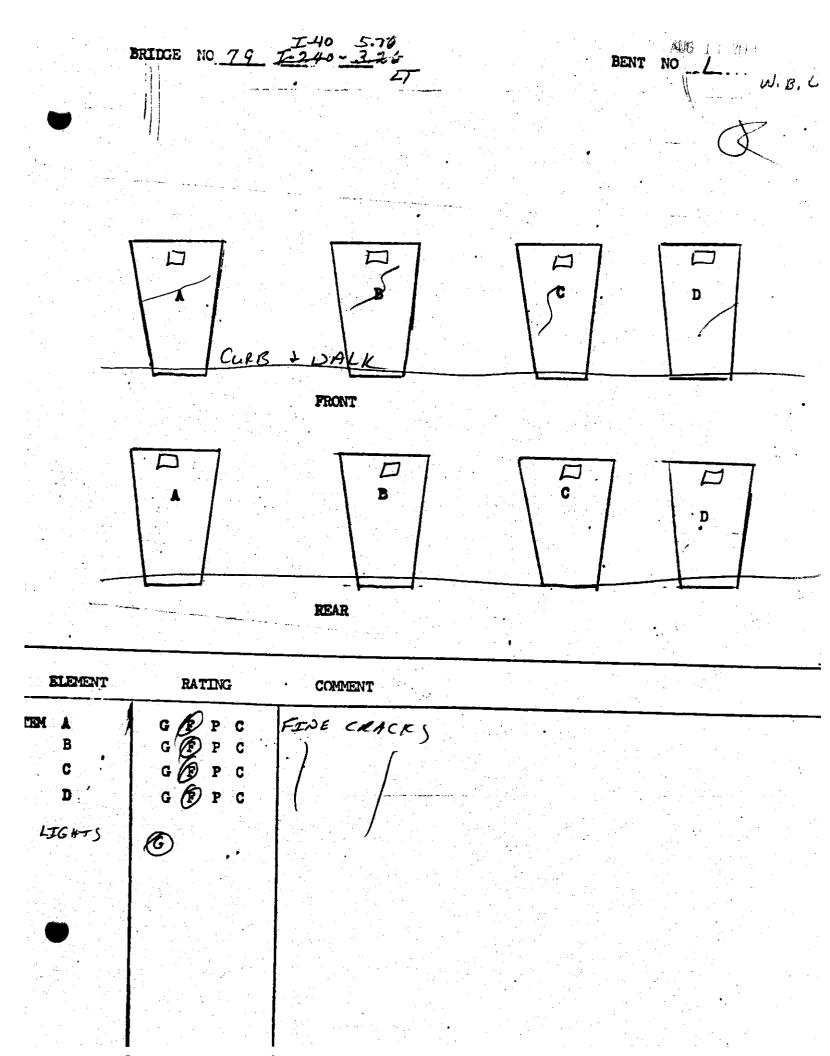




AUG 11 2008 W. B. -BRIDGE NO. 79 I.40 5.76 SK. 80° LT. SPAN NO_2,___ OF ROUTE DIR. GLATTEREC FENE CRACKS G P C DECK G (F) P C' PARAPET DRAINS C JOINTS IG ' ₽ e RAILS C ₽

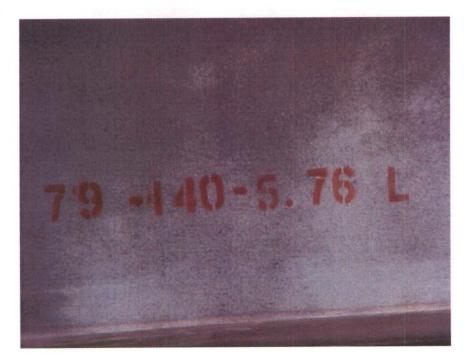


AUG !! 2003 BRIDGE NO. 79 7-240 5.70 ABUT. NO. / - W. B.L 27 LOOKING BACK SLOPE PAU, MENT RATINC COMMENTS BEARING GFPC PAINT GFPC FINE CRACKS CFP C CAP GPPC WINGS EMB. GFPC GPP C VEG. LIGHT GROWTH AICA RIP-RAP GFPC SLOPE PAVE C P C FIX CLALLY PACKWALL G F P C



BRIDGE NO. 79-24-0-326 AUG 1 2003 ABUT. NO._ <u>2</u> W.B.L LOOKING AHEAL SLOPE PAU, RATING MENT COMMENTS BEARING GFPC NIL PAINT GFPC FIDE CRACKS G P C CAP GPP C WINGS GFPC END. VEG. AGFPC RIP-RAP GFPC SLOPE PAV. CEP C FINE CRACKS BACKWALL G F P C

Bridge Loc. No: 79 - 10040 - 05.76 Date: 09-11-01

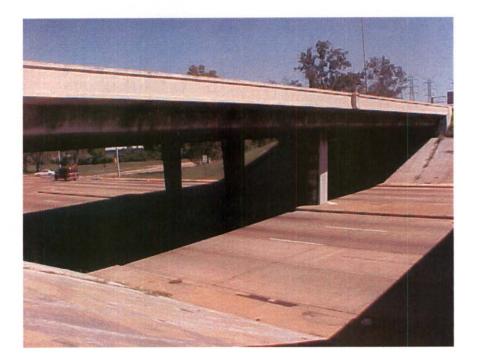


BRIDGE NO.

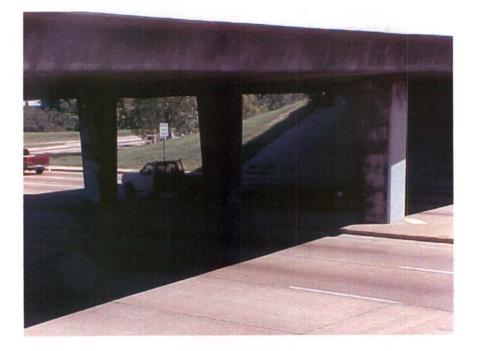


ELEVATION LEFT SIDE

Bridge Loc. No: 79 - 10040 - 05.76 Date: 09-11-01



ELEVATION LEFT SIDE





Bridge Loc. No: 79 - 10040 - 05.76 Date: 09-11-01



ABUTMENT #1



SPAN #1, BOTTOM OF DECK

Bridge Loc. No: 79 - I0040 - 05.76 Date: 09-11-01



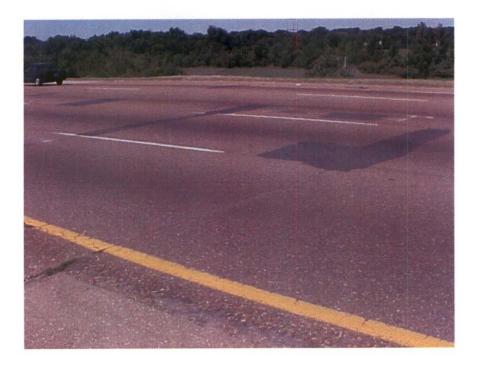
LOOKING AHEAD ON ROUTE



VIEW ACROSS TOP OF DECK







APPROACH #1 PAVEMENT CRACKING & SPALLING



APPROACH #1 PAVEMENT CRACKING & SPALLING

Bridge Loc. No: 79 - I0040 - 05.76 Date: 09-11-01



APPROACH #2 PAVEMENT CRACKING & SPALLING



APPROACH #2 PAVEMENT CRACKING & SPALLING

Bridge Loc. No: 79 - 10040 - 05.76

Date: 09-11-01



APPROACH #2, LEFT DRAIN SETTLED

BRIDGE INSPE	CTION REPORT	SEP 1 1 2001
Form BIR 3.0 (Rev. 9-22-98) DT-0069	Field Report No. 15 Previous Report No. 19 Plans: YES (Date <u>9-11-01</u> Date <u>1-19-00</u>) NO ()
Bridge No. 79100400070 Bridge Location Eleven Digit No. over -0-	Co. Route Log Mile	79 - 02806 - 0344 OVER/UNDER PASS
Road Name		ure Name (If Named)
Year Constructed	County Shelby Mainte	enance District 45
Year Widened	Year Rehabilitated	
FEATURES Wearing Surface Concrete () Timber () Asj Flared Width Yes () No () Median W Navigational Control Yes () No () Bridge Structure Type (Main Span) CONC. BOX E Structure Type (Appr.Spans) No. Main Spans 2 No. Main Spans 2 No. Main Spans 2 No. Main Spans 2 No. Approach Maximum Span Length 106.0 (**.* ft.) Deck Out-to-Out 74.0 Roadway Curb/Curb 72.0 Roadway Rail/Rail Sidewalk Rt Lt. *Approach Roadway *(Does Not include Shoulders) Approach Shoulder Rt. 12'	'idth Open (-) None (-) Closed (-) Skew 80L° LT (*) RT (-) BEAM Spans .)	<u> (ftin.)</u> <u> (*.* ft.)</u> <u> (*.* ft.)</u> <u> (*.* ft.)</u>
UNDERWATER INSPECTION To Be Performed By: DOT FIELD TEAM () CONTRACT DIVERS (Change in Structural Condition: Yes () N COMMENTS: $N - 35^{\circ} 11^{\circ} 31_{\odot}$ \mathcal{W} $90^{\circ} 00^{\circ} 89_{\odot}$	Date) NONE REQUIRED (A) Io (A) Major Repairs Made 3 7 7 7	≆: Yes() No ()
Supervising Bridge Inspector:	BRIDGE RATING: () (X GOOD FAIF	

						195 7 F 9119
Form BIR 3.1 (Rev. 9-22-98) DT-0080	Bridge Location	n No. <u>79</u> Co				
PERFORMANCE EVA					. 3	
Time of Day Inspecte	d <u>1:00</u>	Weath	er Condi	tions <u></u>	40n 885	<u></u>
Vehicles Observed	ALL MAR	335				
LIVE LOAD BEHAVI	OR	-				
Substructure	YES NO	<u>></u>		Co	mments	
Horiz./ Vert. De	fl. ()(ϡ	1				
Vibration	() (1	r)				
Superstructure	- 1					
Horiz./ Vert. De	fl. ()()				
Vibration	() ()	r)				<u> </u>
APPROACH	Rating			Co	omments	
Alignment	GFPC					
Slab	GFPC	NI	~			
Joints	GFPC	NI				\
Pavement	GFPC	APT	PHILE	Z. PAT	CHED SPALL	:1n6 (001)
Embankment	GFPC		/			
Drains	G FPC	APP	#2-1	T SET	TLOD - OPON	ING BLOCKE
						(Deg)
TRAFFIC SAFETY FI	Rating	STANDAR	D/ SUB-ST	ANDARD	Commer	nts
Bridgerailing	GFP C	(X)	()		
Transitions	(G F P C	()	Ù	r)		
Guardrail	G F P C	()	ę	()		
Guardrail Termina	1 🕝 F P C	()	6	()	·····	
		YES I	NO NEI	EDED	Weight Limit Po	osted
<u>SIGNING</u> Paddleboards		()	(+) ()	-	NO (Y)
Vertical Clearance	o (<14'-6")		N .)	Gross) _
NARROW ()	((14-0))		(γ) ((γ) ()	2 Axie	
ONE LANE BRID	GE()		(7) ()	3 or more Axles	Tons
			ι.	pochu	the CPA	VHIA
Other Signs or Pla		SILHH		<u>PACH/19</u> -7 7 Can	<u>2806-3.41</u>	
Comments Regar Problems with Sig		NE	1000	- /	<u> </u>	r
		<u> </u>				

SEP 1 1 2001

Form BIR 3.2 (Rev. 9-22-98) DT-0081	Bridge Location No. 79		Date
DECK	Rating		Comments
Wearing Surface	G P C	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Deck - Structural Condition	GFPC		
Curbs Median Sidewalks Parapet Railing Paint Drains Lighting Standards Utilities Joint Leakage Expansion Joints <u>SUPERSTRUCTURE</u> Bearing Devices Beams <i>Boxt Sources</i> Beams <i>Poxt Sources</i> Brank Sources	G F P C C C C C C C C C C C C C C C C C C	ON STEMS CMT PUCK	
BOLTS (PCCS)	GFPC		······································
Floor Beams	GFPC		
Stringers	GFPC	·	
Diaphragms	GFPC		
Bracing Trusses - General Portals Bracing Paint Alignment of Member	GFPC GFPC GFPC GFPC GFPC GFPC		
TEXTURE COAT	(069)~	TOPE Bottom	\sim
Condition Rating Overall Appearance Staining Rating Comments	GFPC GFPC GFPC	Fading G Needs Spot Painting Needs Repainting	FPC YES() NO()- YES() NO() - Scaling Rating GFPC
			CLEAN SEAL JOINTS () CLEAN DRAINS ()

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SEP I LOW

(Rev. 9-22-98)	Bridge Locati	on No. <u>79 - 10040 - 5.76 L</u>	_ Da	te
DT-0082 SUBSTRUCTURE		Co. Route Log Mile	PILES TO REPLAC	
ABUTMENTS	Rating	Comments	PILE(S)	ABUTMENT
ABUTMENTS Caps Breastwall Wings Backwall Plumb Footing Piles Embankment Bearing Slope Paving Rip Rap Earthquake Devices	G G G G G G G G G G G G G G G G G G G			
PIERS			PILE(S)	PIER
Caps Columns Plumb Footings Piles Bearing Web Earthquake Device	G F P C G F P C S G F P C	λ		
BENTS Caps Columns Plumb Footings Piles STEMS Bearing Bracing L/C-HTS Earthquake Device	G F P C G F P C G F P C G F P C G F P C S G F P C			BENT
CU	s Need Replacer T VEGETATION EAR DRIFT IONS:			

Page 1 of 2 INSPECTION REI	Field F	Report No	Date
(Rev. 9-22-98) DT-1443		Report No.	Date
Bridge No. 79100400070 Eleven Digit No.	Underpass L	ocation No <u>. 79 -</u> Co. over/ 70	Route Log Mile
OOrOr Railroad/Walkway Co.	- Route Log Mile	_ under Co.	- 02806 - 0344 Route Log Mile
County Shelby Year Constructed	Structure Name (If	Named)	
Year Widened	Year Rehabilita	ated	
Type of Wearing Surface CONC Width of Approach Traveled Roadway Width of Median if Divided Highway Approach Shoulder Width *Horizontal Clearance Under Bridge *Distance Between Pier Protection Guardrail and Substructure *Width of Sidewalk Under Bridge *Minimum Vertical Clearance: *Show on Sketch	() RIGHT RDWY () CRETE () ASPHALT 52 ft. (Do 14 ft. (Do 14 ft. Rig 52 ft. 17 ft. Rig 6.0 ft. Rig 17 ft.	r () GRAVEL (es Not Include Sh ht <u>N/A</u> ht <u>N/B</u> ht <u>N/B</u>)
TRAFFIC SAFETY FEATURES FOR	UNDERPASS ROUT	E Andard Su <u>b-st</u>	ANDARD NON EXIST
Pier Protection Railing or Parapet Approach Guardrail Transitions Approach Guardrail Approach Guardrail Terminal	G F P C (G F P C (G F P C () ()	. h
Vertical Clearance (<14'-6") YE	ES () NO (X) NEE ES () NO (X) NEE	EDED () 1. EDED () 2	INSPECTORS

SEP 1 1 2001

Page 1 of 2 INSPECTION REPOR	TFOR UNDERPASS ROUTE Page No
Form BIR 3.0A (Rev. 9-22-98) DT-1443	Field Report No Date Previous Report No Date
Bridge No. 79100400070 Eleven Digit Na.	Underpass Location No. 79 - 10040 - 0576 L Co. Route Log Mile over/ 79 - 02806 - 0344
-0- or - Railroad/Walkway Co. Rou	te Log Mile Co. Route Log Mile
(anoad) (another a)	ructure Name (If Named)
Year Constructed	
Year Widened	Year Rehabilitated
GEOMETRIC FEATURES UNDER BRIDGE	(*.* ft. unless otherwise noted)
Type of Wearing Surface CONCRET	E() ASPHALT() GRAVEL()
	Standard () Granders)
Width of Approach Traveled Roadway	14 ft.
Width of Median if Divided Highway	N/A ft. Right N/A ft. Left
Approach Shoulder Width	40 ftIN.
*Horizontal Clearance Under Bridge	
*Distance Between Pier Protection Guardrail and Substructure	N/14 ft. Rightft. Left
*Width of Sidewalk Under Bridge	N/4 ft. Right 6.0 ft. Left
*Minimum Vertical Clearance:	<u>/(, ft. // in.</u>
*Show on Sketch	
TRAFFIC SAFETY FEATURES FOR UND	ERPASS ROUTE
	STANDARD SUB-STANDARD NON EXIST
Approach Guardrail Transitions G Approach Guardrail	F P C () () (×) F P C () () (×) F P C () () (×) F P C () () (×)
SIGNING FOR UNDERPASS ROUTE	INSPECTORS
Paddleboards YES () NO (χ) NEEDED ()
Vertical Clearance (<14'-6") YES () NO (\times NEEDED () 1. <u><i>KLGVE</i></u>)
Narrow Passage YES () NO (\nearrow) NEEDED ()
One Lane Passage YES() NO () NEEDED () 2 3
Other Underpass Signs Needed	4.
· -	5.
	6.

·

_			SEP 1 1 2001 Page No
Page 2 of 2 Form BIR 3.0A (Continued)		Date	-
(Rev. 9-22-98) DT-1443	Underpass Location No.	<u>79 - 10040</u> Co. Route	
Other Signs or Plaques:			
Comments Regarding any Problems with Signing:			
BRIDGE FEATURES (*.* ft.) Bridge Skew <u>RO</u> ^o · LF Structure Type (Main Span) Structure Type (Appr Spans) Maximum Span Length <u>Maximum Span Length</u> Width of Bridge Out-to-Out <u>Midth of Bridge Along Skew</u> Number of Lanes/Tracks on Bridge BRIDGE CONDITION: G Does Potential Exist for Elements Does Potential Exist Because of D	A .	eans (ft.) line of Bridge at Right f Bridge) neath YES	6() NO (XI

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

- 1. Elevation View of Bridge on Both Sides Showing Underpass
- 2. View Showing Both Approaches to Bridge
- 3. View Showing Safety Features
- 4. View Showing Any Problems

Inspection Team's Summary

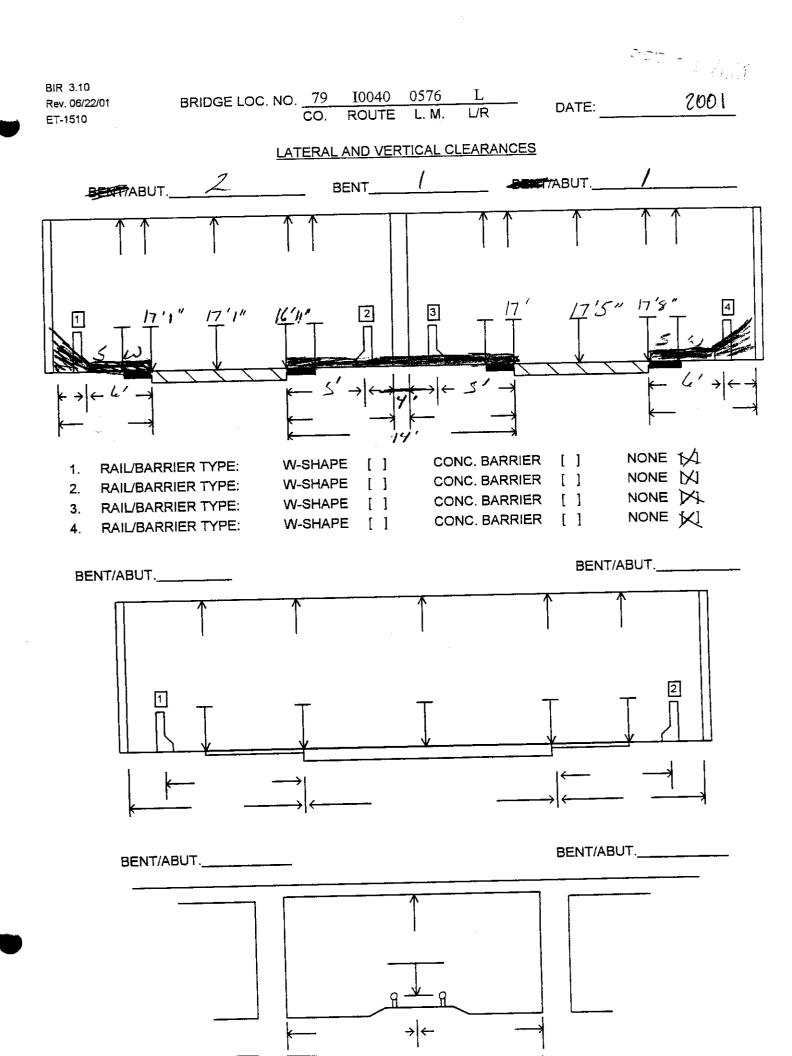
SEP : 1 2001

Bridge Location No. 79 - 10040 - 5.76 L Inspection Date <u>9-11-01</u> Bridge Rating <u>FAIR</u>

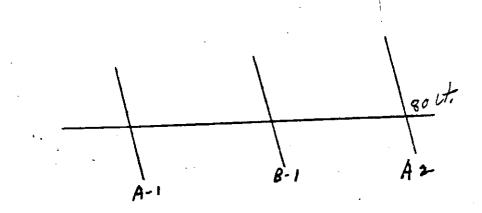
THIS TWO SPAN CONC. BOX BEAM WITH CONC. SUBSTRUCTURE BRIDGE IS IN FAIR CONDITION. ALL TRAFFIC SAFETY FEATURES ARE PRESENT. APP. #1 \$ #Z PAVEMENT IS SPALLING, CRACKING & SETTLED. APP. #1 & # Z LT. DRAINS ARE 10090 FILLED WITH DEBRIS, APP. #2 LT. DEALN IS SETTLED UP TO 2", THE MINIMUM VERT. CLEARANCE IS 16'11" Derek By

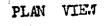
Cross Section: yes () no 🕅

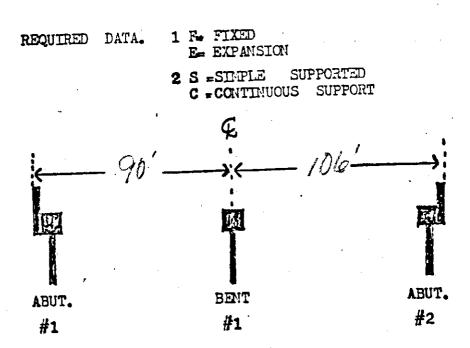
Pontis: yes () no (X)

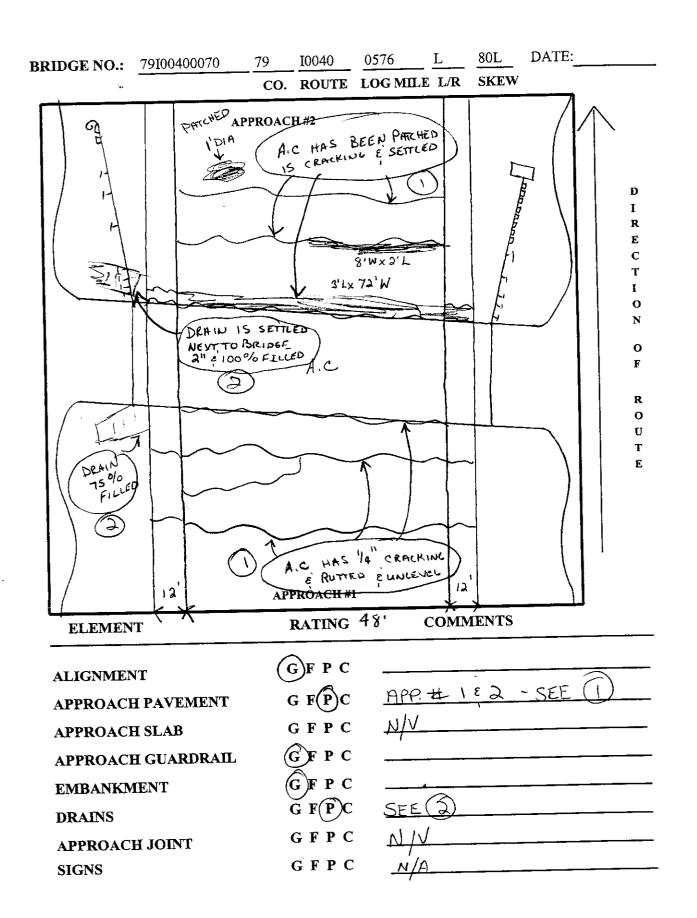


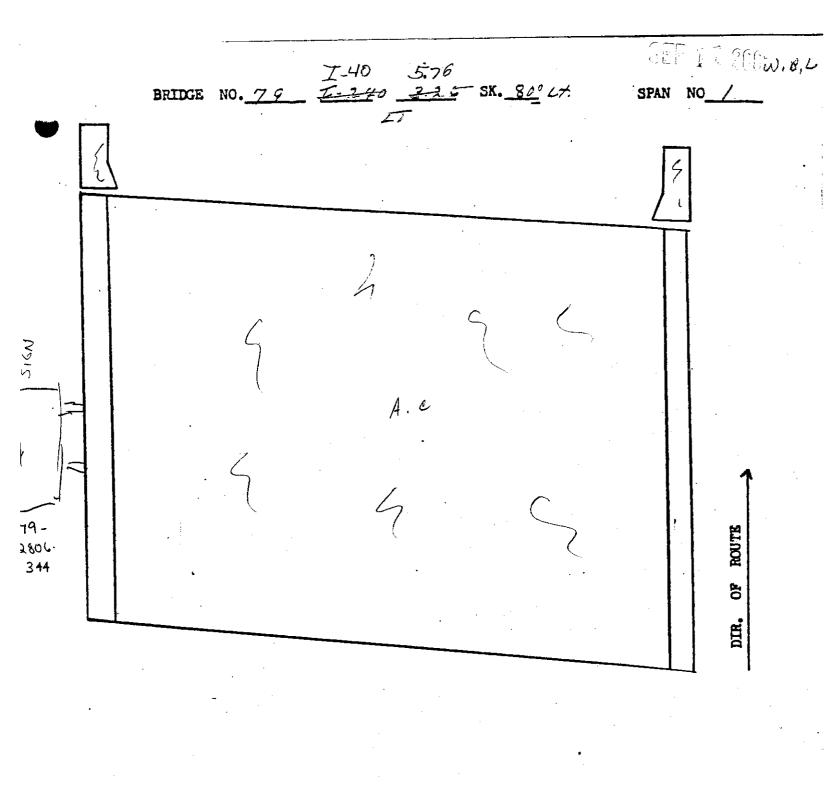
I-40 5.76 240 - 376 SKEW 8002+ BRIDGE NO. 79 2001 W. B. L F OF ROUTE DIR.



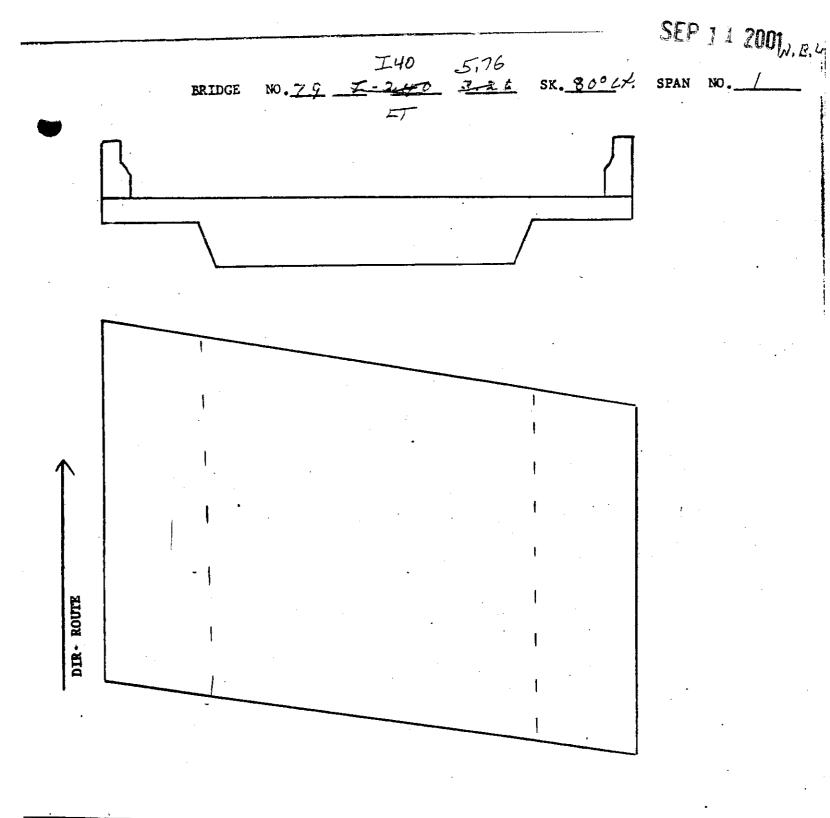




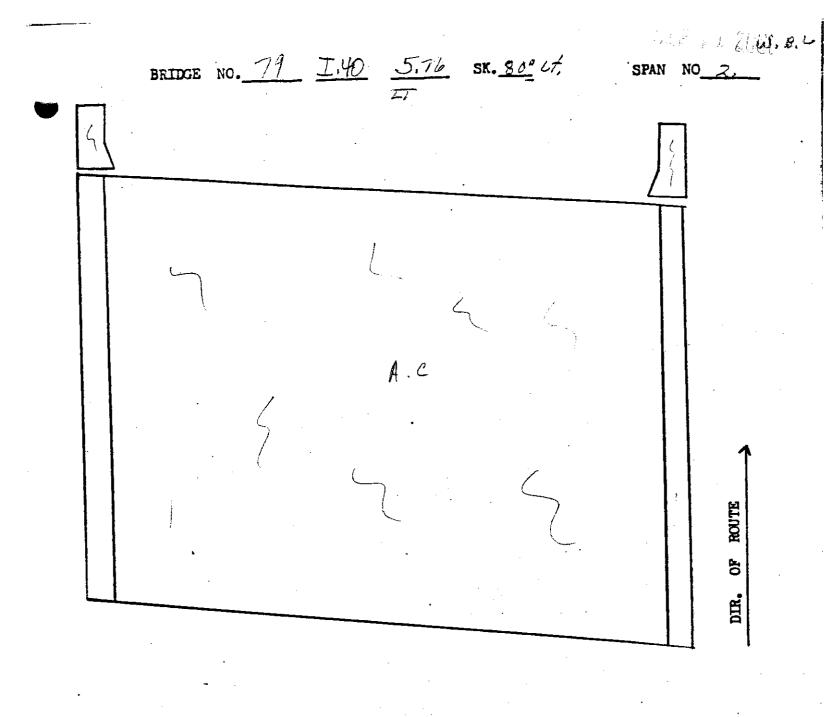




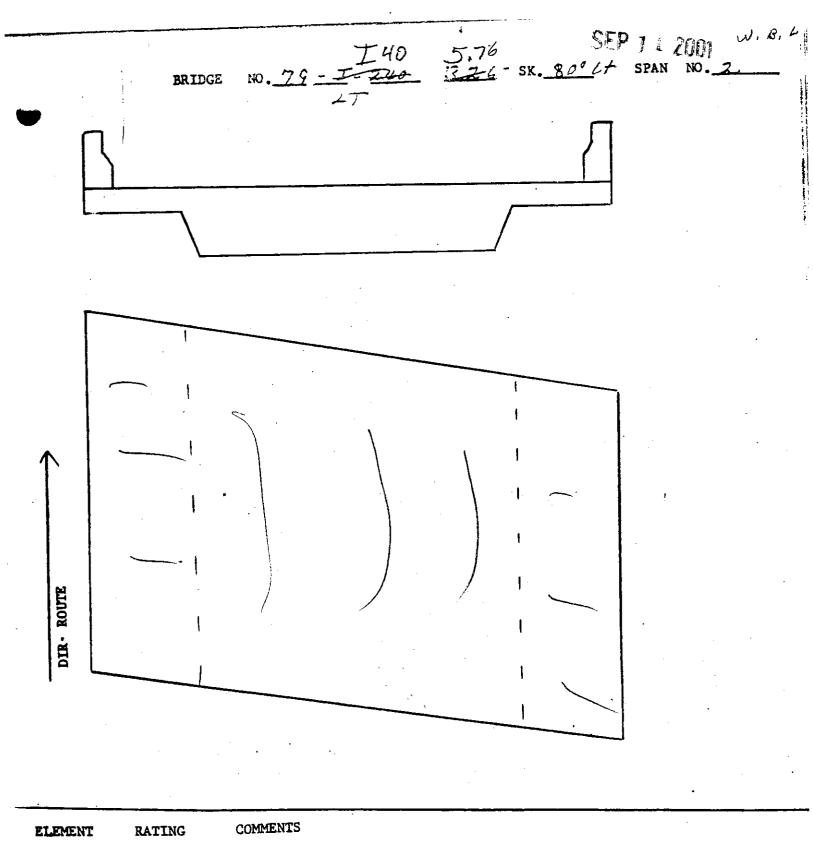
DECK	GFPC GFPC	SCATTERED FINE CRACKS
PARAPET DRAINS	G F P C G F P C	N/4
NTS	GFPC	NIA
RAILS	C F P C	N/A
SIGN	6	



ELEMENT	RATING	COMMENTS	······································	 		
BOTTOM DECK	GEPC	FING CRALKS				
КТ <i>э</i> г <i>эт ч</i> ●	©				•	

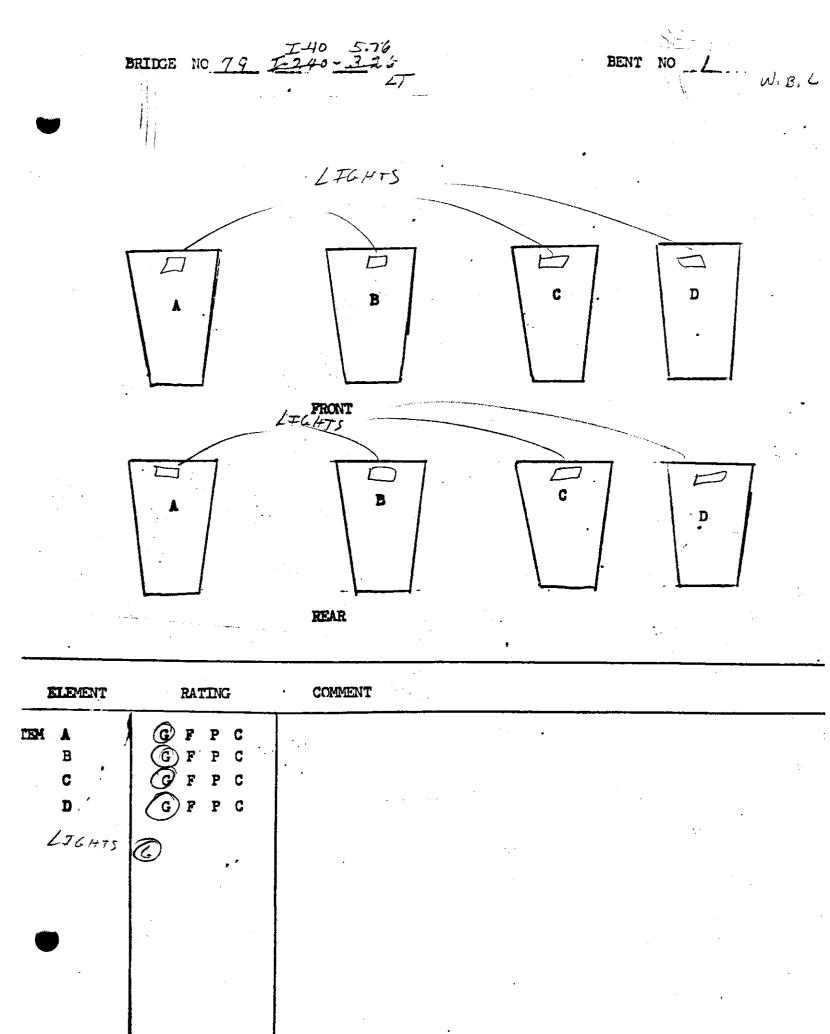


SCATTERED FINE CRACKS G (F) P C DECK 11 11 F 11 PARAPET C G (NIA FP DRAINS G C NIA G FPC INTS N/A FPC RATES



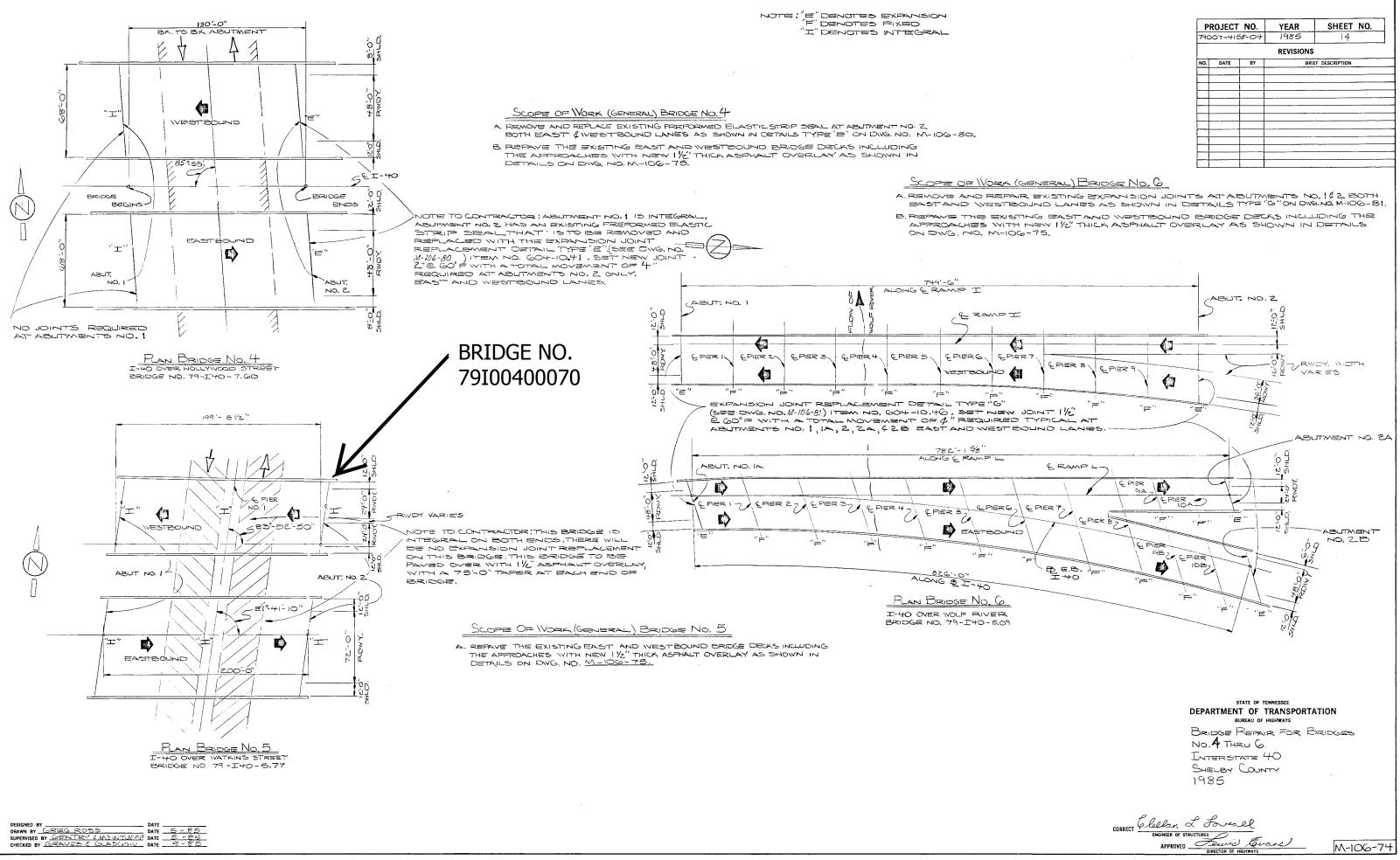
BOTTOM DECK	GFP C	FENG CRACK,	<u> </u>	· <u> </u>		
•					·	
	, ,				·	

ABUT. NO. J. J. C. C. W. EL I-40 5.76 BRIDGE NO. 79 I-40 - 376 25 LOOKING BACK SLOPE. /AU RATING COMMENTS MENT GFPC BEARING GFPC PAINT GEPC CAP FIVE CRACKS G P C -WINGS EMB. GFPC GFPC VEG. 1/4 RIP-RAP GFPC SLOPE PAVE F P C FING CRACIS ACKWALL GFP C

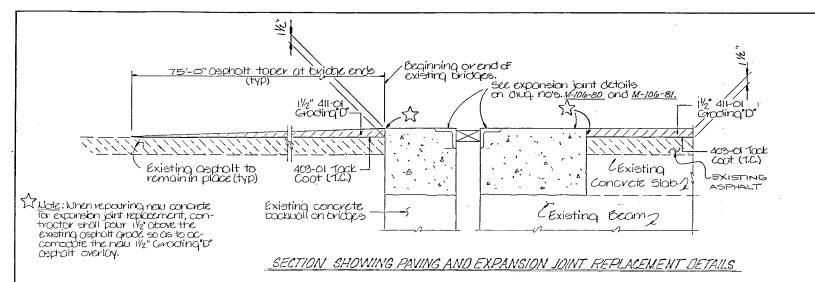


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台口(-) J ZU() · · I-40 5.76 ABUT. NO. 2 W. R.C. 2-7-LOOKING AHEAC SLAP & RATING COMMENTS MENT NIA GFPC BEARING NIA GFPC PAINT CFP C CAP INB CRACKS GF P C WINGS GFPC EMB, VEG. GFPC GFPC RIP-RAP SLOPE PAN.G.F P C ACKWALL G F P C



		NO 1	VEAD	SHEET	NO				
11	ROJECT	NO.	YEAR	SULCI	NU.				
790	07-41	58-04	1985	14					
			REVISIONS	5					
NO.	NO. DATE BY BRIEF DESCRIPTION								
-									
-									
_					- ^ · ·				
		+							
		1							



ALL EXISTING BRIDGE DECK DRAINS, WHEN ASPHALT OVERLAY CARE SHALL BE TAKEN OVERLAY AROUND THE BRIDGE DECK DRAIN DRAINS AND TAPERING THE NEW ASPHALT INCLUDED IN COST OF ITEMS BID ON.

.

ESTIMATED QUANTITIES

	ITEM NO.	Tem	UNIT		NO, 4 I-40⁄ HOLLY 10005 BRIDG≡ NO		BRIDGE NO.	TOTAL
/	403-01	Bitaminous Material for tack Cont (T.C.)	Ton		.75	.75	1.5	З
. Q-	<i>¢11-01.01</i>	Miners! Assuressie for Asphaltis Concrete Surface (ACS) Gr. "D"	Ton		227	381	1230	1838
Ì		Aspinali Cement for Aspinaltic Concrete Surface (ACS) GP."".	Ton		15	124	79	118
X	604-10.41	Expansion Joint Repaire (Type"E")	1 L.F.		138			138
S.	604-10.43	Exponsion Joint Repairs (Tupe "G")	1 L.F.				378	378
	1		1					
						<u> </u>		
						1		
			1					
			1					
			1			1		

1 DENOTES ITEMS FOR NEW 1/2" ASPHALT OVERLAY ON BRIDGES NO. " THRU G. SEE PAVING DETAILS ABOVE AND PLAN OF BRIDGES ON DWG. NO M-10G-74

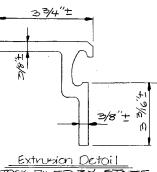
C DENOTES EXPANSION JOINT REPAIR ON BRIDGES NO. 4,46. SEE DETAILS AND NOTES ON DWG. NO'S. M-106-76, M-106-77, M-106-80, M-106-781, AUD ARE OPECIAL NOTE BELOW.

Special Note Concerning Expansion Joint Repair Bid Itom Nos. 604-10.41, and 604-10.46,

The contractor shall inspect 450° Feet (22 individual pieces) of steel extrusions that are stored of the Atote Construction OFFice, located on Centennial Blvd. In Noshville, prior to submitting a bid for items no. 64-10.41 and 604-10.46. These extrusions are state property. The successful bidder on this project shall make provisions for picking up the extrusions and utilizing as much of the 450° Feet as reasonably possible in the fobrication of the expansion joints specified in items no. 64-10.41 and 64-10.46, shop and where they are used, see detail below for configuration of extrusions that are stack piled of the state construction office.

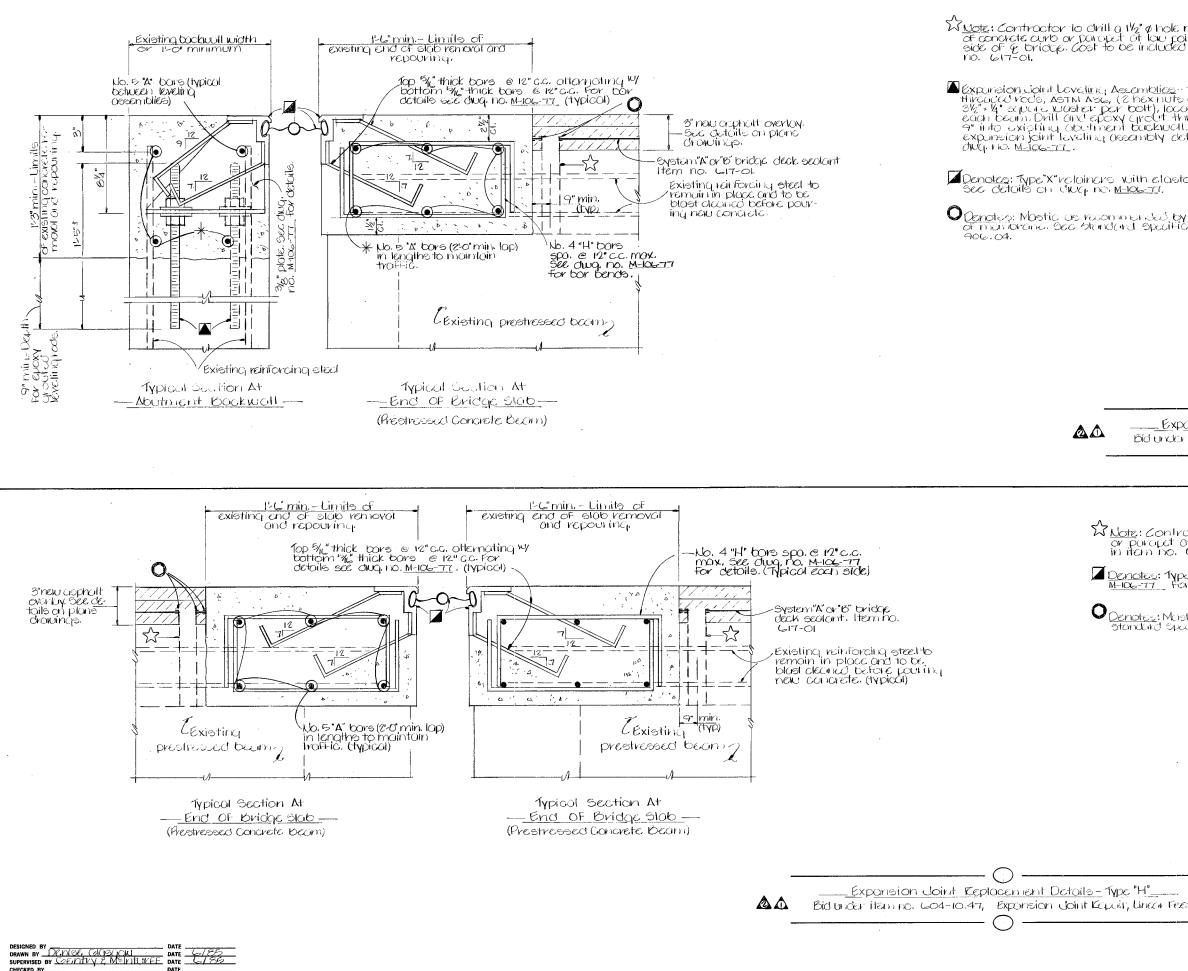


1.30

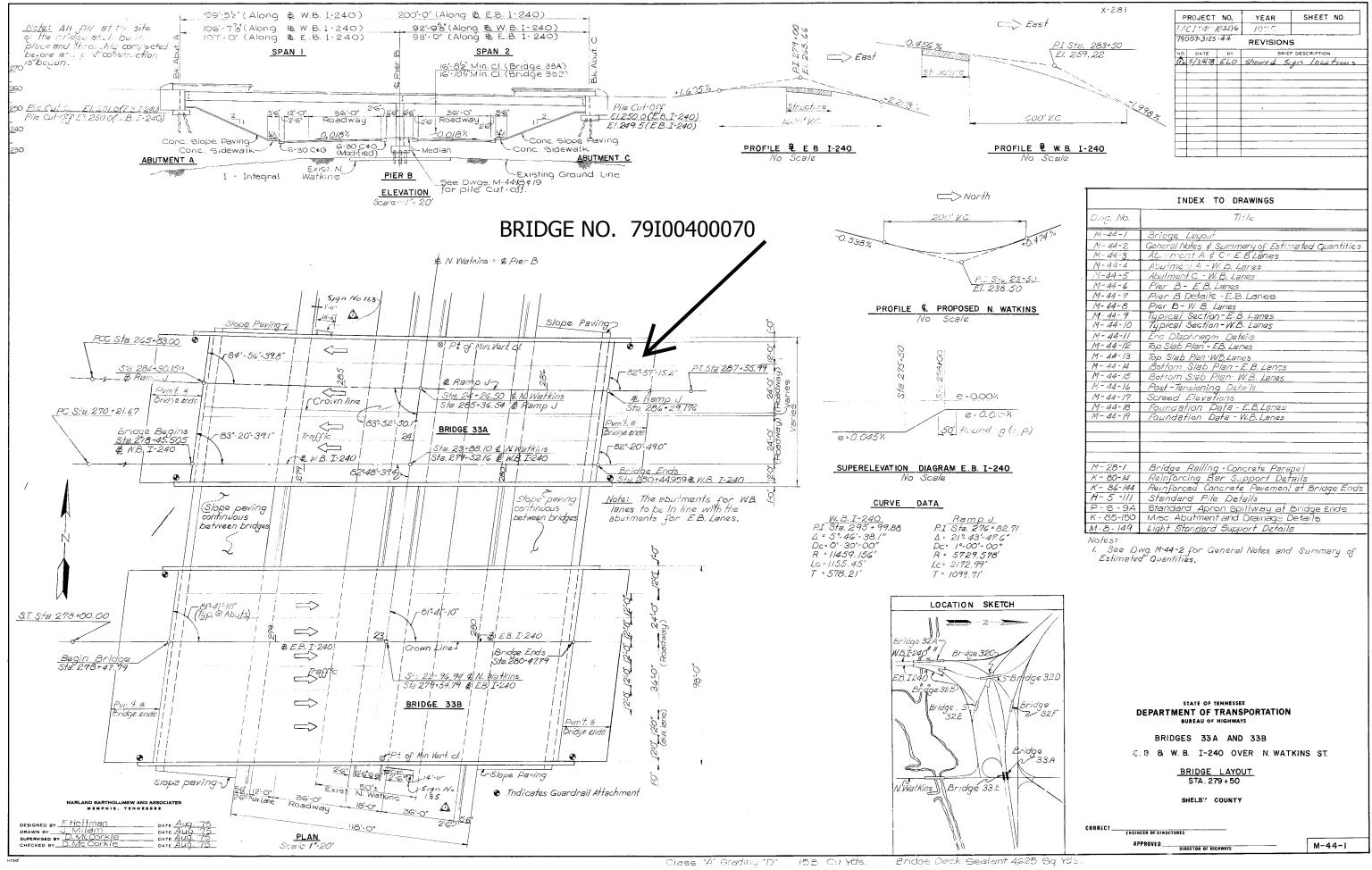


STOCK PILED BY STATE

E FOR THE CLEANING OF	PROJECT NO.	YEAR SHEET NO.
INS. COST OF CLEANING THE	79007-4158-04	1985 1 15
OVERLAY SHALL BE		REVISIONS
	NO. DATE BY	SREEF DESCRIPTION
GENERAL NOTES	:	
DESIGN SPECIFICATIO	NI OTHERAS	83 EDTION.
SPECIFICATIONS STAN		ATIONS FOR ROAD AND
BRIDGE CONSTRUCTION		EDMON).
	(
LIST OF DRAWINGS		
DRAWING	<u>DWG, NO,</u>	LAST REV. DATE
BRIDGE REPAIR DETAILS	N-106-74	
BRIDGE REPAIR AND Estimated Quantities-1	N-106 -75	
-		
<u>Heference Drawings</u>		
BRIDGE NO. 4 M-44-3	3 37 38 41	
BRIDGENO.5 M-44-1.	3,37,38,41 7,410	
	9,12,73,81,91 9,110,¢111	
LIST OF DRAWINGS TO BE F		PALE
	Divg. NO.	LAST REV DATE
STRIP SEAL EXPANSION JOINTS		
REFLACEMENT CONSTRUCTION	N-106-80	
STRIP SEAL EXPANSION JOINTS REPLACEMENT CONSTRUCTION		
TYPE"G"	n-106-81	
GENERAL NOTES FOR EXPANSION		
JOINT REPLACEMENT CONSTRUCTION TYPES "AT THRU"J"	0N N-106-76	
EXPANSION JOINT REPLACEMEN	41-	
CONSTRUCTION DETAILS		
	1-106-77	
	STATE OF T	ENNESSEE
D	EPARTMENT OF T BUREAU OF	
P.		NR AND ESTIMATED
-		For Bridges
	0.4 THRUG	-
-	TERSTATE '	
	HELBY CO	
	785	
CORRECT Clellon I	Foreall	
ENGINEER OF STRUC	1. E	/
#PPROVED	DIRECTOR OF HIGHWAYS	M-106-75



hear face Kit goch	PROJECT NO.	YEAR	SHEET NO.
n item		1985 REVISIONS	
	NO. DATE BY		DESCRIPTION
uo (~) 7/6" 4 nC 2-31/2",*	2 5-15-85 RBG	General re General r	
ed algor			
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D776, NO.	11170
M-44-1	Bridge Leyout
M-44-2	General Notes & Summary of Estimated Quantities
M-44-3	Abusment A & C - E. B Lanes
M-44-4	Abutment A - W. B. Lares
M-44-5	Abutment C - W. B. Lanes
M-44-6	Pier B - E.B. Lanes
M-44-7	Pier B Detaile - E.B. Lanes
M-44-8	Pier B-W. B. Lanes
M-44-9	Typical Section - E.B. Lanes
M- 44-10	Typical Section-W.B. Lanes
M- 44-11	End Diaphragm Details
M-44-12	Top Slab Plan - E.B. Lanes
M- 44-13	Top Slab Plan-W.B.Lanes
M- 44-14	Bottom Slab Plan - E. B. Lancs
M-44-15	Bottom Slab Plan W.B. Lanes
M-44-16	Post-Tensioning Details
M-44-17	Screed Elevations
M-44-18	Foundation Data - E.B. Lanes
M-44-19	Foundation Data - W.B. Lanes
M-28-1	Bridge Railing - Concrete Parapet
K - 80-14	Reinforcing Bar Support Details
K- 86-144	Reinforced Concrete Pavement at Bridge Ends
H-5-///	Standard Pile Details
P-6-9A	Standard Apron Spillway at Bridge Ends
K - 85-150	Misc. Abutment and Drainage Details
M-8-149	Light Standard Support Details

GENERAL NOTES

- SPECIFICATIONS: Standard Road and Bridge Specifications of the Tennessee Department of Highways (1968 Edition)
- 2. LOADING: HS-20-00 and Alternate Military.
- 3. DESIGN SPECIFICATIONS: 1973 AASHO and Addendo.
- 4. CAST-IN-PLACE CONCRETE: To be closs "A", 5'c 4000 psi, for superstructure; fro: 3000 psi, for substructure and parapets. See Special Provision Regarding Section G04 Concrete Structures.
- 5. REINFORCING STEEL: TO be ASTM AGIS Grade GO. Standard CRSI hook details oppiy unless otherwise noted on Bill of Steel. Bending dimensions shown, dre based on Grade GO Steel. Spocing dimensions are center to center unless otherwise noted on detail drowings.
- G. 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 GO4.22 of the Tennesse Standard Specifications except as modified by the Special Provision Regarding Section GO4. Concrete as modified by the Special Provision Regarding Section Gourconcere Structures. A Textured Coated Finish shall be used in lieu of a Class & Finish. The color of the finish shall be similar to Federal Specification No. (See Detail) Federal Calor Standard 595a, and a color sample shall be Submitted to the Engineer of Structures for approval. All exposed Concrete Surfaces, including concrete propets and wingposts, piers and abutments above grade (but not including bridge slab), shall receive a textured coat finish.
- <u>B. FOUNDATION NOTE:</u> FRICTION PILES: After excavating to the proposed footing elevations a test pile shall be driven of each substructure of the location designated on drawing numbers M44-3 thrus. A load test will then applied to the test pile on Pier B. The load test shall be in accordance with Special Provision Regarding Load Test shall be in accordance with Special 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-44-18 # M-44-18
- Alternate Piles: The contractor may'use piling of a different material or configuration from that shown on the plans provided the substutition meets minimum design standards and specifications is approved by the Engineer, and contisms to conditions established by the Special Provision No-131, Regarding Section 606, Piling dated Schoper 1,1975. 9
- 11. LOADING TESTS: See Special Provision Regarding Load Test For Friction Piles.

12. BRIDGE DECK SEALANT: The Bridge deck and reinforced approach slab Shall be sealed in a future paving contract (4625 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 Regarding Permanent Steet Bridge Deck forms; Revised November 9, 1973.
- <u>IL POST-TENSIONING</u>: See Notes on Dwgs. M-44-16 and Special Provision Regarding Post-Tensioned Prestressed Concrete.
- 15. LINSEED OIL TREATMENT: Surfaces receiving a textured cooted finish shall not receive a linseed oil treatment. See Special Provision Regarding Section GO4 - Concrete Structures.

(2): See Alternote Pile Note

(C) Quantities given is out to-out of wingposts. (7) The cost of light standard base including concrete and reinforcing to be included in price bid for bridge parapet. (8) The cost of tar-paper and all miscellaneous joint material to be included in bridge items bid on.

			<u> </u>		SUMMARY (OF ESTIMATEL	QUANTITIES	r	1		I		1
Item NO.	204-02.01	604-03.01	604.03,02	604.25.04	606-09,01	606-09.02	606-09.03	6/5-05.01	616-08	710-10	710-11	714-01.01	604-03.03
Description	Dry Excavation (BridgesXI)	Closs A Concrete (Bridges)	Steel Bar Reinforcement (Bridges)	Textured Cooted Finish	Test Piles (Precost Conc. Size 1) (2)	Looding Test (Precost Conc. Size 1) (2)	Precost Conc. Piles-Sirye I (2)	Post Tensioning	Concrete Poropet (G)(7)	G#Perf. C. M. P. (1890.)W/Porous Bockfill (3)	C"&C.M.P. Undercirains -(1890)	Structure Lighting (4)	Linseed Oil Treatment
Unif	QU, Yd5.	CU. YO'S,	Lbs.	Sq. Yds.	Lin. Ft.	Eoch	Lin: Ft.	Lump Sum	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lump Sum,	Sq. Yd.
Abutment A	175	46.3	1785	510	30		690			90	4		
BPIERB		103.6	13300	95	35		1645						
AbutmentC	170	43.9	1700	492	30		690			86	4		
Pavimt. @ Br. Ends	5	152.0	38830										398
QSuperstructure		969.1	204166	2125		1		.4	430.5			.5	1614
QAbutment A	215	57.8	2210	600	30		. 870			110	4		
Pier B		138.0	17740	130	25	1	/575						
Abutment C	215	57.3	2210	606	30		870			110	4		
Pavint @Br. Ends	1	195.4	50845										537
Superstructure		122.0.9	260422	2595				.6	432.0			.5	2100
Total	775	2983.8	593208	7159	180	1	6340	1.0	862.5	396	16	1	4649

HARLAND BARTHOLOMEW AND ASSOCIATES MEMPHIS, TENNESSEE

DESIGNED BY F. Hoffman DRAWN BY M. Garay SUPERVISED BY D. Mc Corkle _____ Aug. 175 ____ DATE AUQ. ___ DATE_AUČ D. Mc. Corkle CHECKED BY_

MED **MICROFIL**

Const. No. 79007-3125-44

٩	ROJECT	NO.	YEAR	SHEET NO.						
ĒΑ	CI-240	-//132)-6	1975							
	REVISIONS									
NO	DATE	BY	BRIEF	DESCRIPTION						
J	2-13-76	CEH	Deleted Lood Te	est in Str. 33A.						
2	11-1-76	CEH	Rev. Reinf. Steel Qty.							
				5						

QUANTITY NOTES

(1) Excavalian based or lower roudway profile,

(3) The cost of polyethylene sheeting and all miscellaneous items necessary for installation to be included in cost of perforated C.M. Pipe.

(4) Lump sum for Structure Lighting Item No. 7/4-01.01 includes 485= lin ft. 2" & conduit with pull wires 90 = 1 in ft. 1" & conduit with pull wires, 10 pull baxes, 12 anchor bolts for Str. 33A; 487 + lin.ft. 2" & conduit with pull wires. 120 ± 1in. Ft. 1 \$ conduit with pull wires 12 pull boxes, 12 anchorbots on Str. 33B and all necessary materials for installation of future structure lighting. (5) The cost of 28 threaded steel inserts 28-764 hex head bolts (4307) Shall be included in Bridge items bid on.

* Similar to White (Fed. Spec. No. 3 TBBG) ** Similar to Azure Blue (Fed. Spec. No. 35190)

In addition to the above surfaces all exposed Surfaces of abutments, Wingwalls, wingposts (slope poving Shall receive a Texture Coating Finish Similar to Azure Blue (Fed. Spec. No. 35190).

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION UREAU OF HIGHWAYS

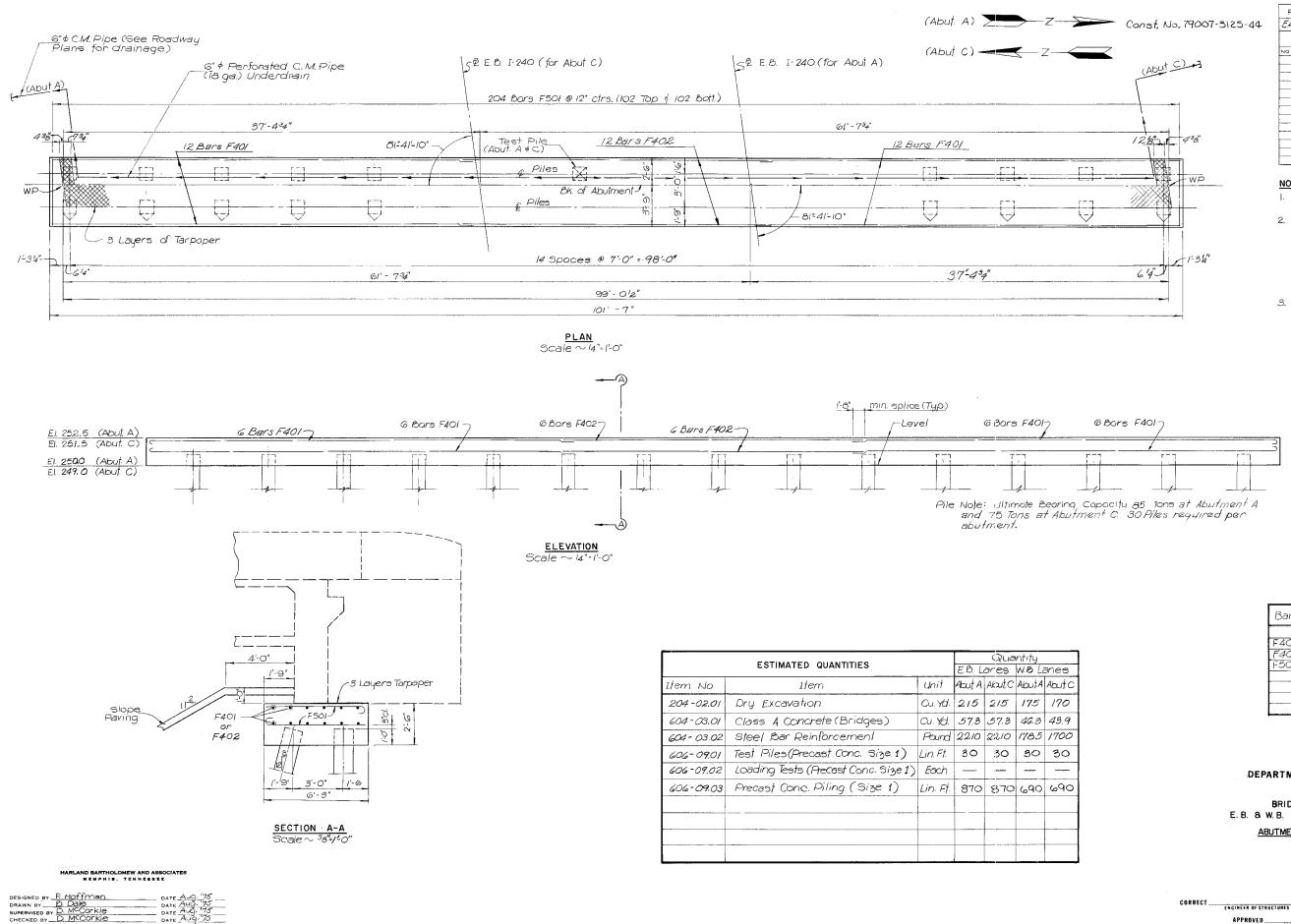
BRIDGES 33A AND 33B E.B & W.B I-240 OVER N. WATKINS ST. GENERAL NOTES & SUMMARY

OF ESTIMATED QUANTITIES STA. 279 +50

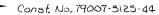
SHELBY COUNTY

CORRECT_____ENGINEER OF STRUCTURES

APPROVED ______ DIRECTOR OF HIGHWAYS



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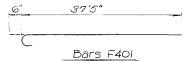


	ROJECT		YEAR	SHEET NO.			
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NOTES

- I. See Dwg, M-44-11 for Wing Wall and End Diaphragm Details.
- For details of the approach slabs see Std. Dwg. M-86-144¢std. Dwg. P-5-9A. Piles not regid e ends of approach slab. Where notch is approach Slab. Where notch is required for spillway, reinforcing extending into notch shall be cut in field. See Roadway Plans for size and location of spillways. 3. For drainage details see Dwg. M-44-11 \$ std. Dwg. K-85-150.





		OF S		
Bars	No. F AbutA	Regid Abul C	Length	Shape
F401	24	24	37-11	
F402	12	12	29-8	
F501	204	204	6'-5"	

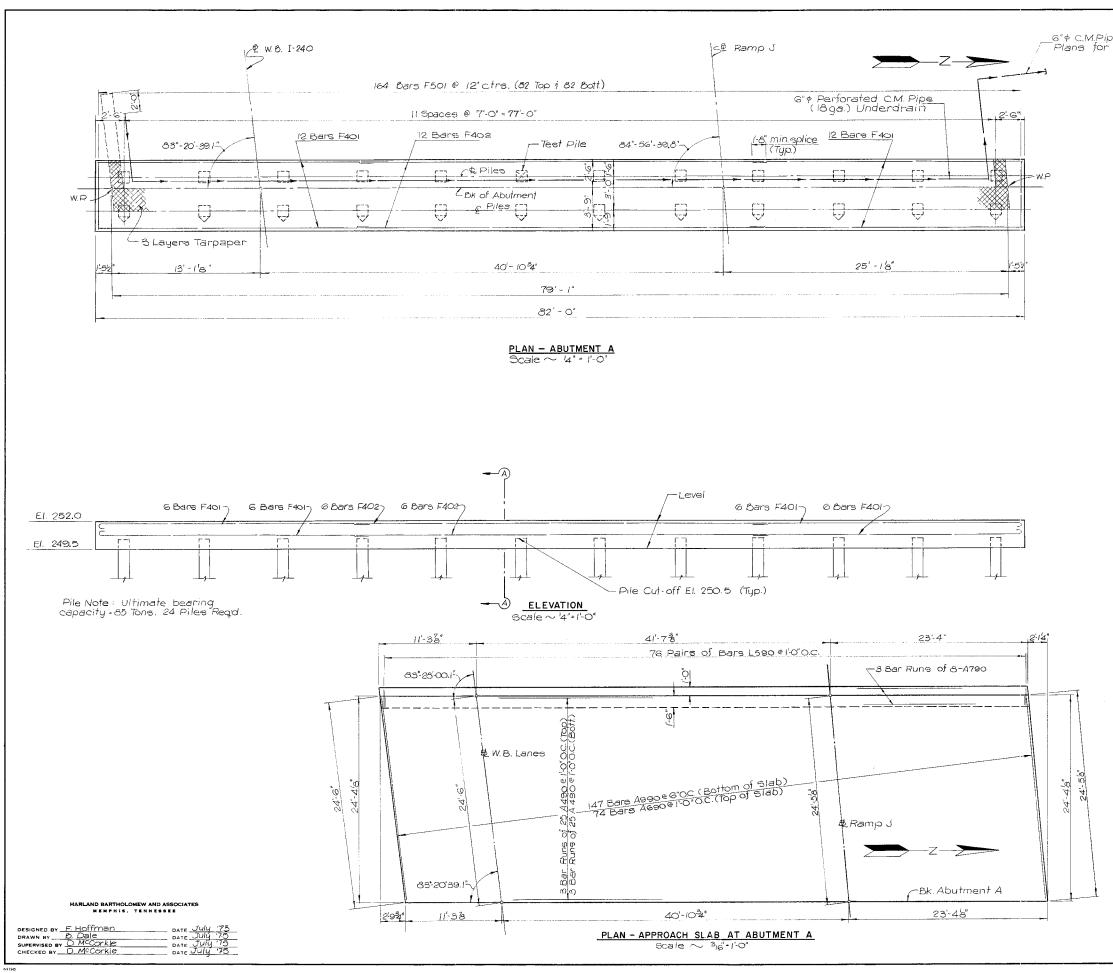
STATE OF TENNESSEE BUREAU OF HIGHWAYS

BRIDGES 33A AND 33B E.B. & W.B. I-240 OVER N. WATKINS ST. ABUTMENTS A & C - E.B. LANES STA. 279 + 50

SHELBY COUNTY

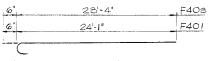
DIRECTOR OF HIGHWAYS

M-44-3



MICE

Const. No. 79007-3125-44 PROJECT NO. YEAR SHEET NO. _6"\$ C.M.Pipe (See Roadway / Plans for drainage) EAC J-240-1(132)6 1975 REVISIONS NO. DATE BY BRIEF DESCRIPTION NOTES 1. See Dwg.M-44-3 for Estimated Quantities. 2. See Dwg.M-44-11 for Wing Wall and End Diaphragm Details. 3. See Dwg. M-44-3 for Section A-A. 4. For additional details of approach slabs see Std. Dwgs. M-86-144 + std. Dwg. P-5-9A. Piles not requ e ends of approach slab. 5. For drainage details see Dwg.M-44-11 ∉ Std. Dwg. K-85-150. 5'- 10" Bars F501



Bars F401 \$ F403

	BI	LL OF	STEEL	
Bar	<u>No.</u> Abul:A	Req'd. Abut C	Length	Shape
F401	24		24'-7"	<u> </u>
F402	12		36'-8'	
F403		24	23'-10"	
F404		12	34'-2"	
F5OI	164	156	6-5	

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

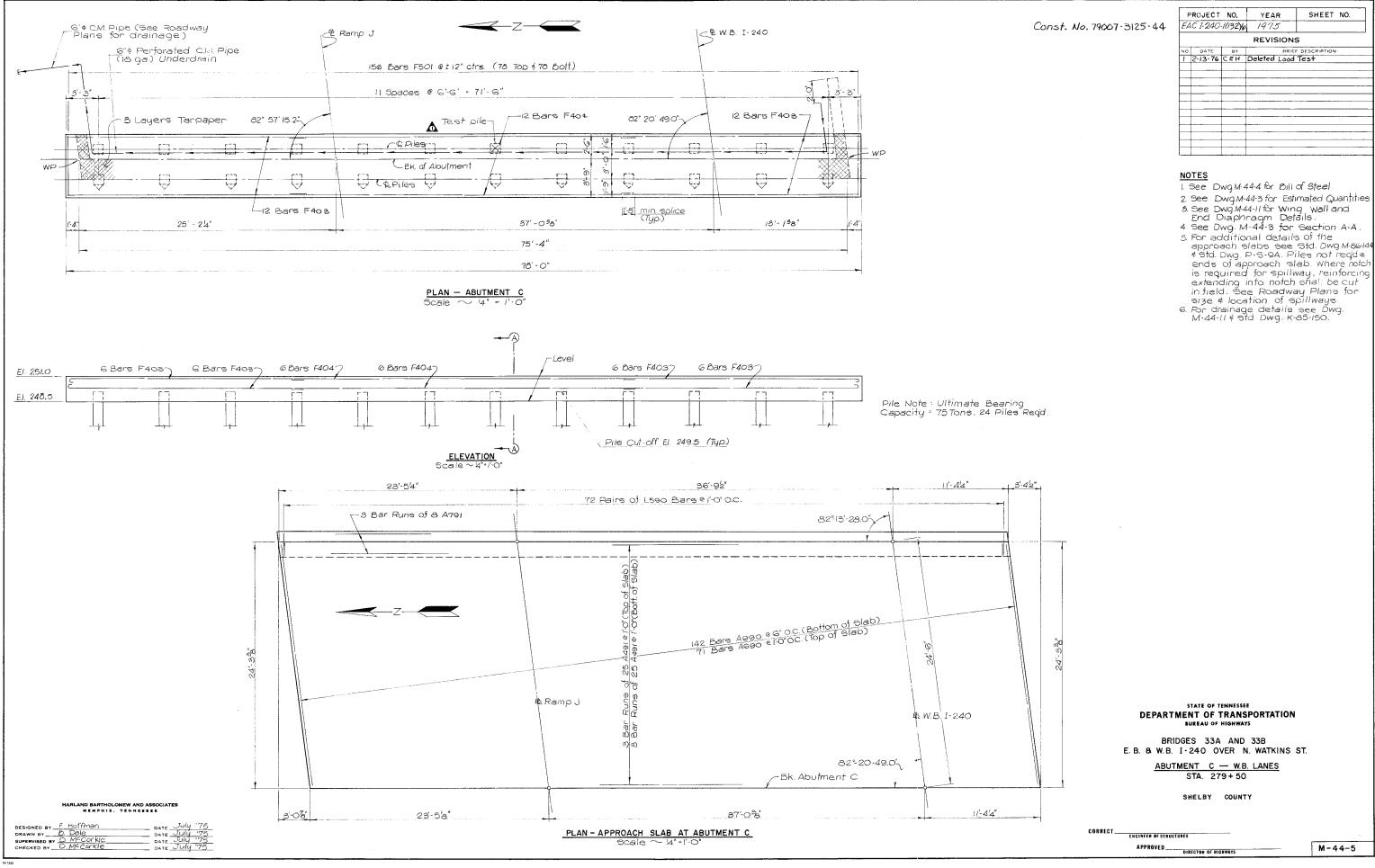
BRIDGES 33A AND 33B E. B. & W. B. I-240 OVER N. WATKINS ST.

ABUTMENT A - W.B. LANES STA. 279 + 50

SHELBY COUNTY

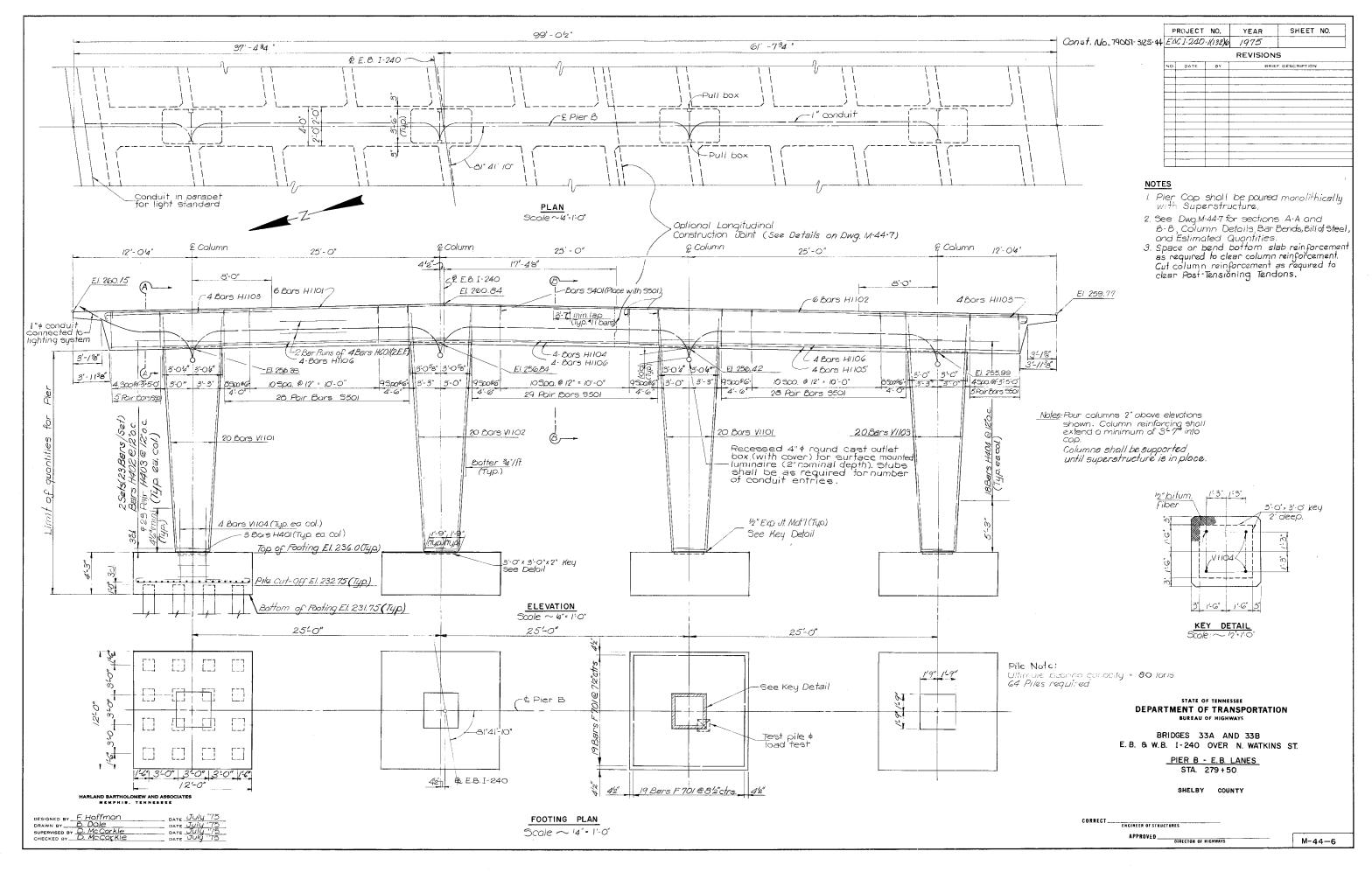
CORRECT_______ENGINEER OF STRUCTURES

APPROVED _______ DIRECTOR OF HIGHWAYS

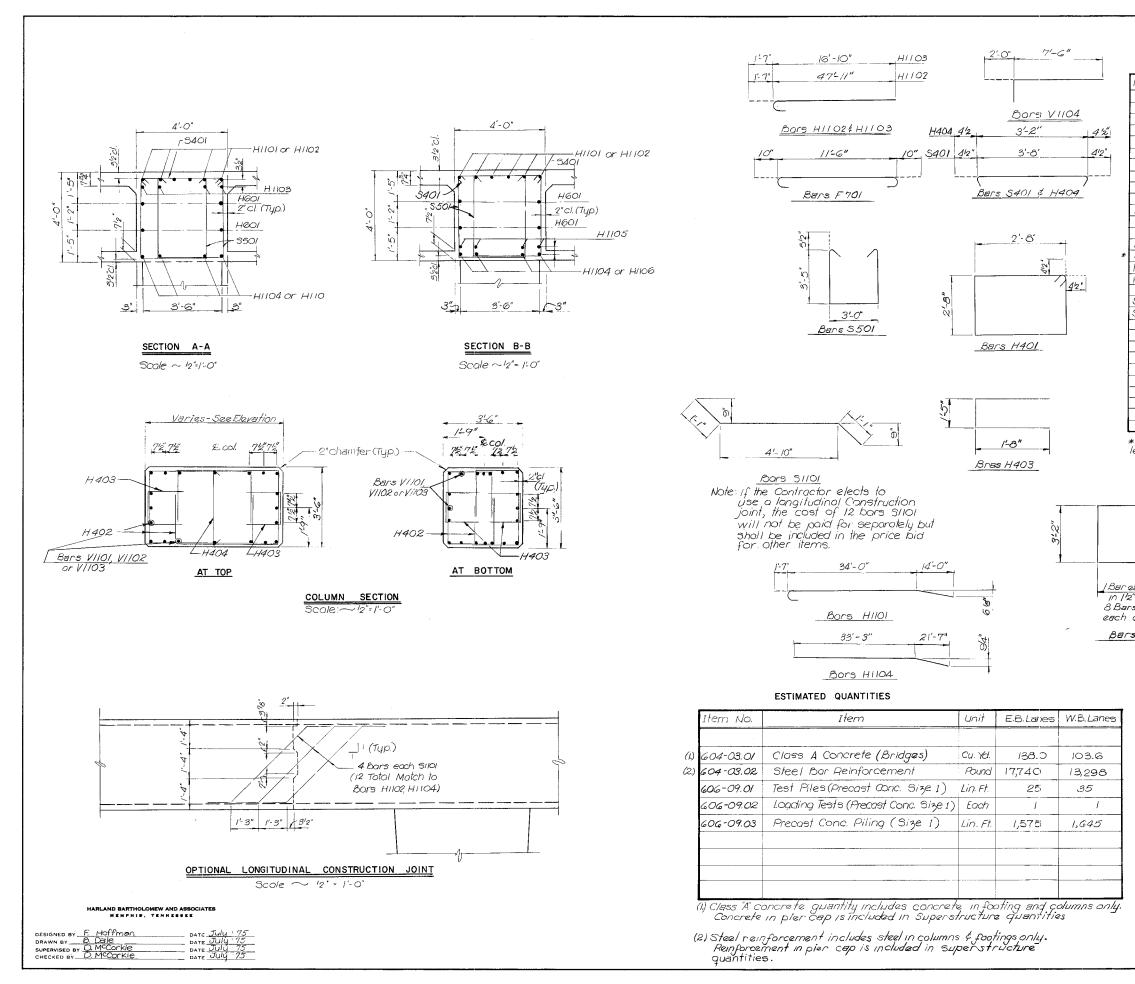


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	REVISIONS								
NO.	NO. DATE BY BRIEF DESCRIPTION								
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Const. No. 79007-3125-44

· _E	BILL OF	STEE	L
Mark	Nb.Reqid	Length	Shape
HIIOI	6	49-7"	
H//02	6	49-6"	
H1103	8	18'-5"	
H1104	4	54'-10'	
HI 105	4	39'-6"	
нпою	/2	19-0"	
		171 01	
H601	8	47'-0"	
		<u> </u>	
H401	12	11-5	 1
H402	8 Sets	Varies	
H403	/84	4'-9"	
404	72	3'-11"	<u> </u>
S40/	95	4-5"	\sim
S <i>501</i>	190	10'-9"	01
VIIOI	40	24'-0"	
VI 102	20	24'-4"	
V1103	20	25-6"	
VI 104	16	9'-6"	
F701	150	1010"	
/ /0/	152	13'-2"	
		-	
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PROJECT NO.			YEAR	SHEET NO.						
EAC	1-240-	((132.)6	1975							
	REVISIONS									
NO.	DATE	BY	BRIE	F DESCRIPTION						
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				· <u>····································</u>						

* 23 bors per set. I bor each length 11-10" to 17-4" in 3" increments.



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

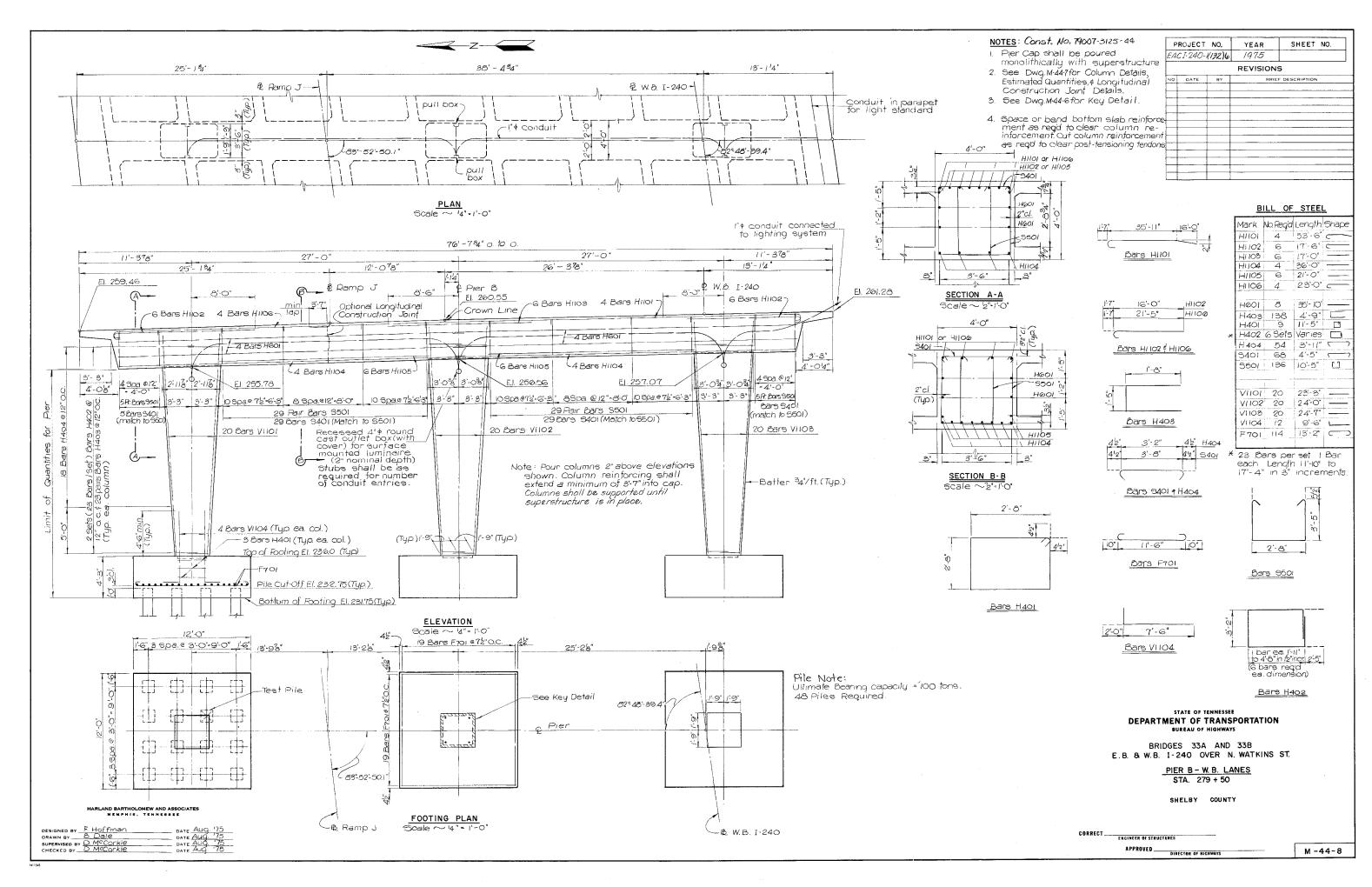
BRIDGES 33A AND 33B E.B. & W.B. I-240 OVER N. WATKINS ST.

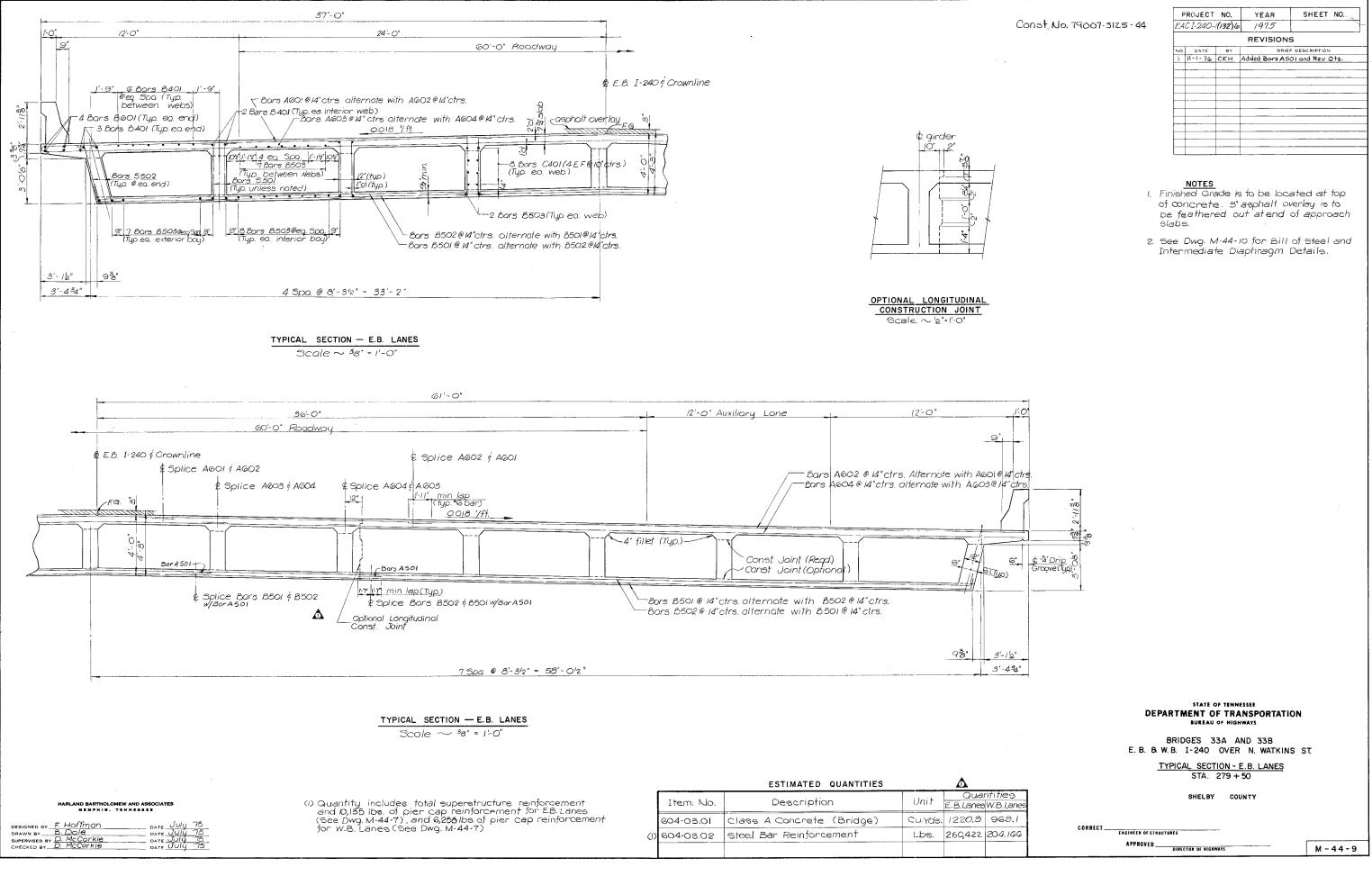
> PIER B-E. B. LANES-DETAILS STA. 279+50

> > SHELBY COUNTY

CORRECT ________ ENGINEER OF STRUCTURES

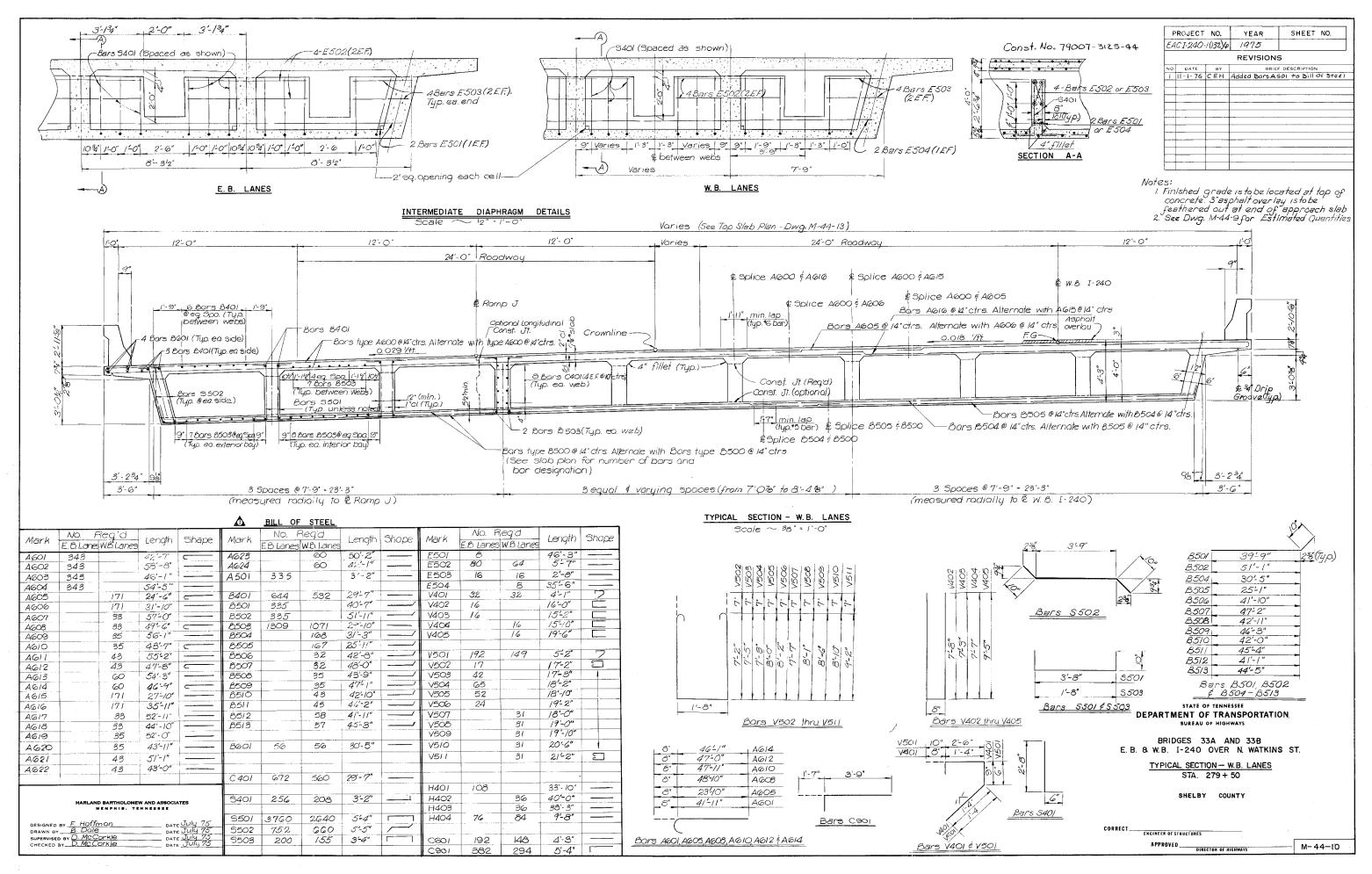
APPROVED ______ DIRECTOR OF HIGHWAYS

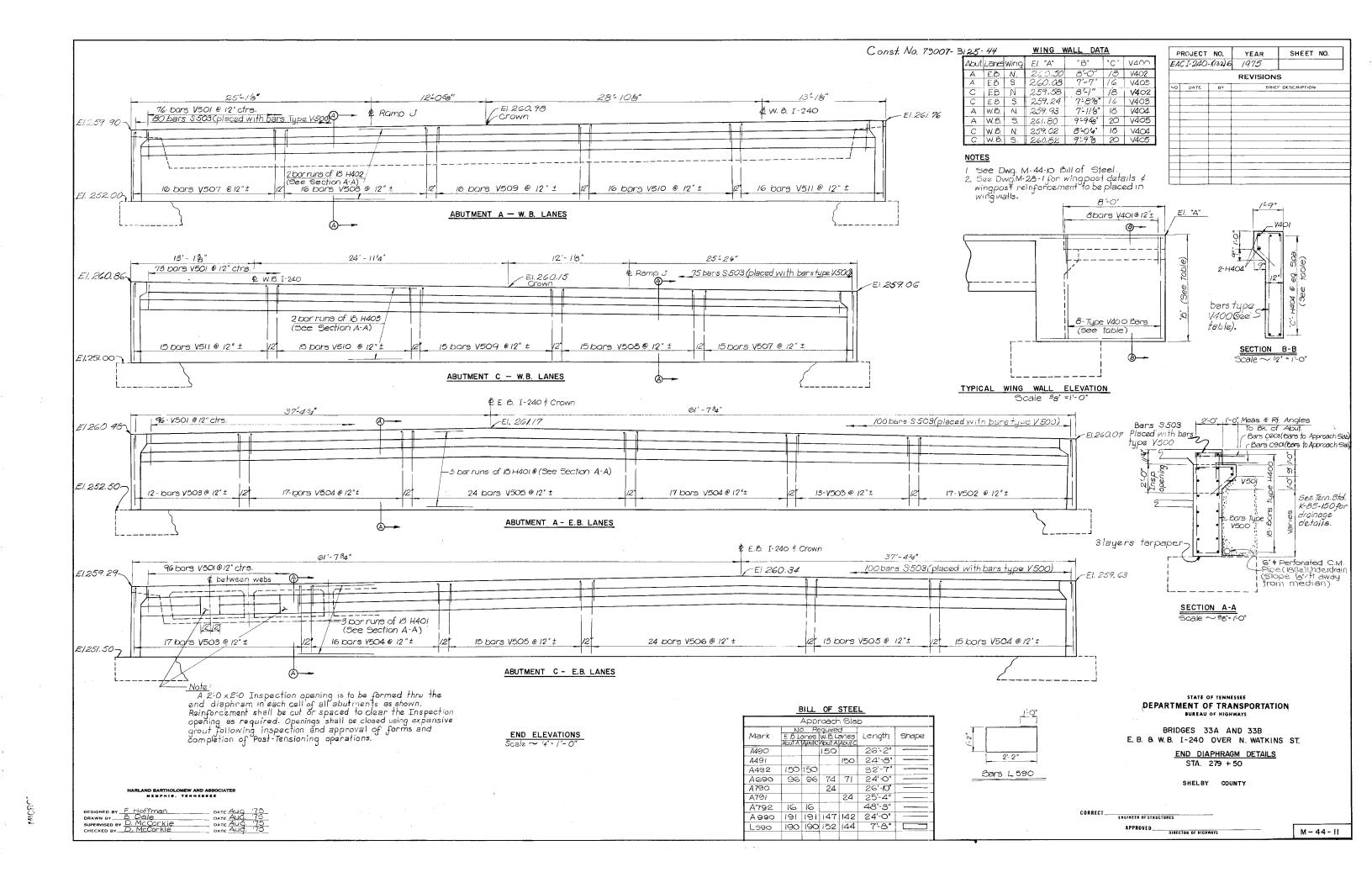


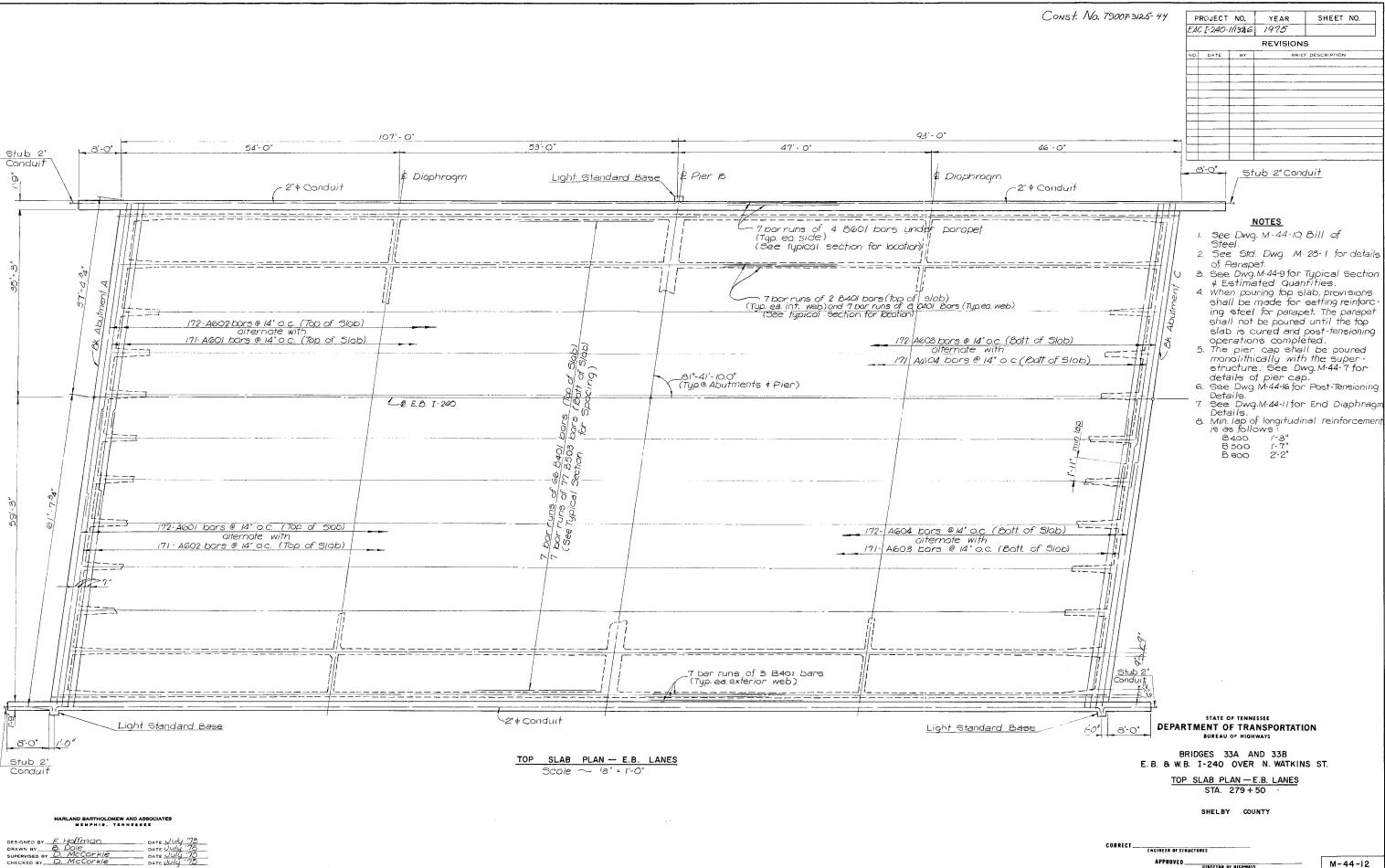


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_	ROJECT C1-240-		YEAR 1975	SHEET NO.					
	REVISIONS								
NO.	NO. DATE BY BRIEF DESCRIPTION								
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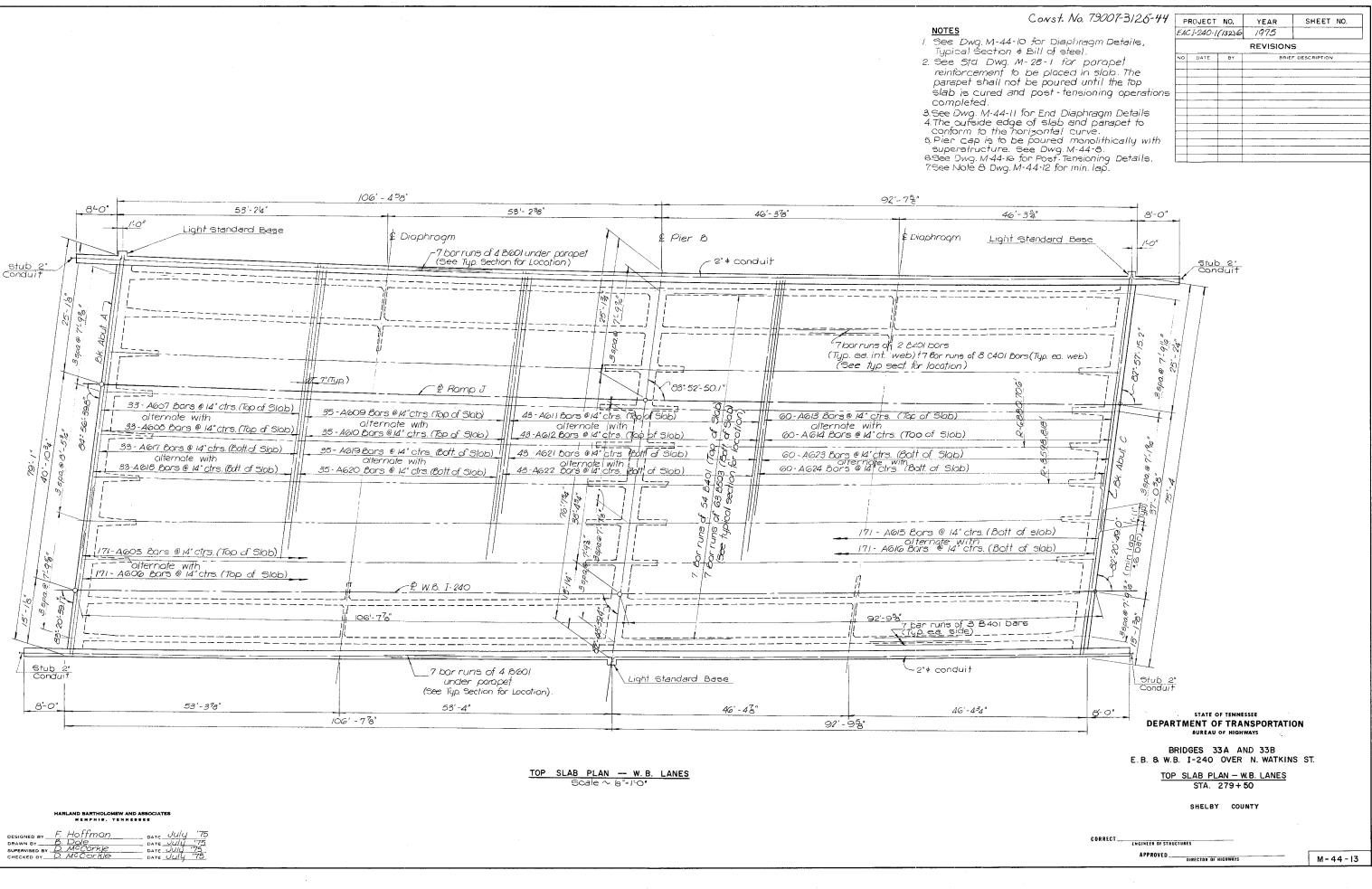


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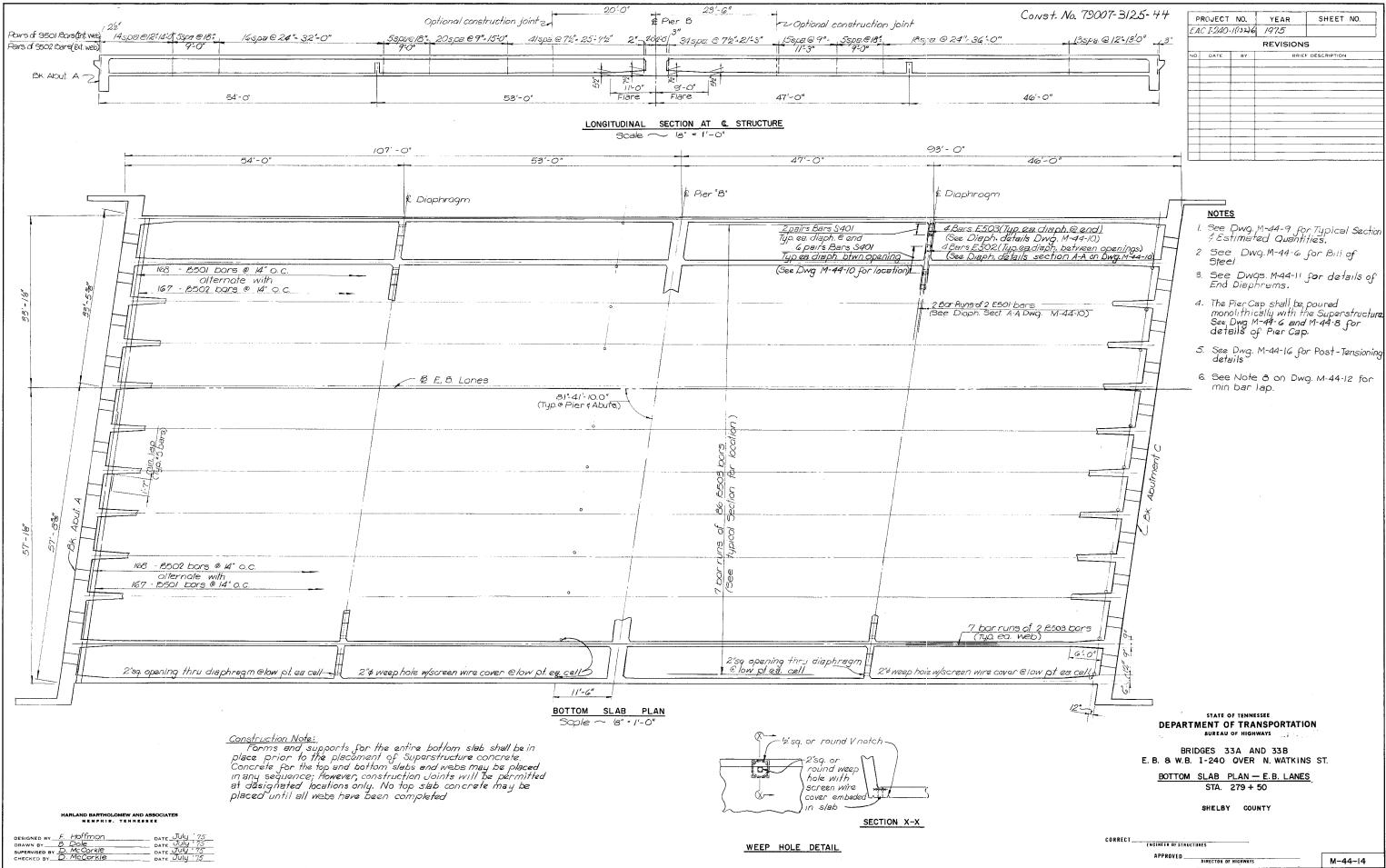
APPROVED ______ DIRECTOR OF HIGHWAYS

M-44-12

completed.

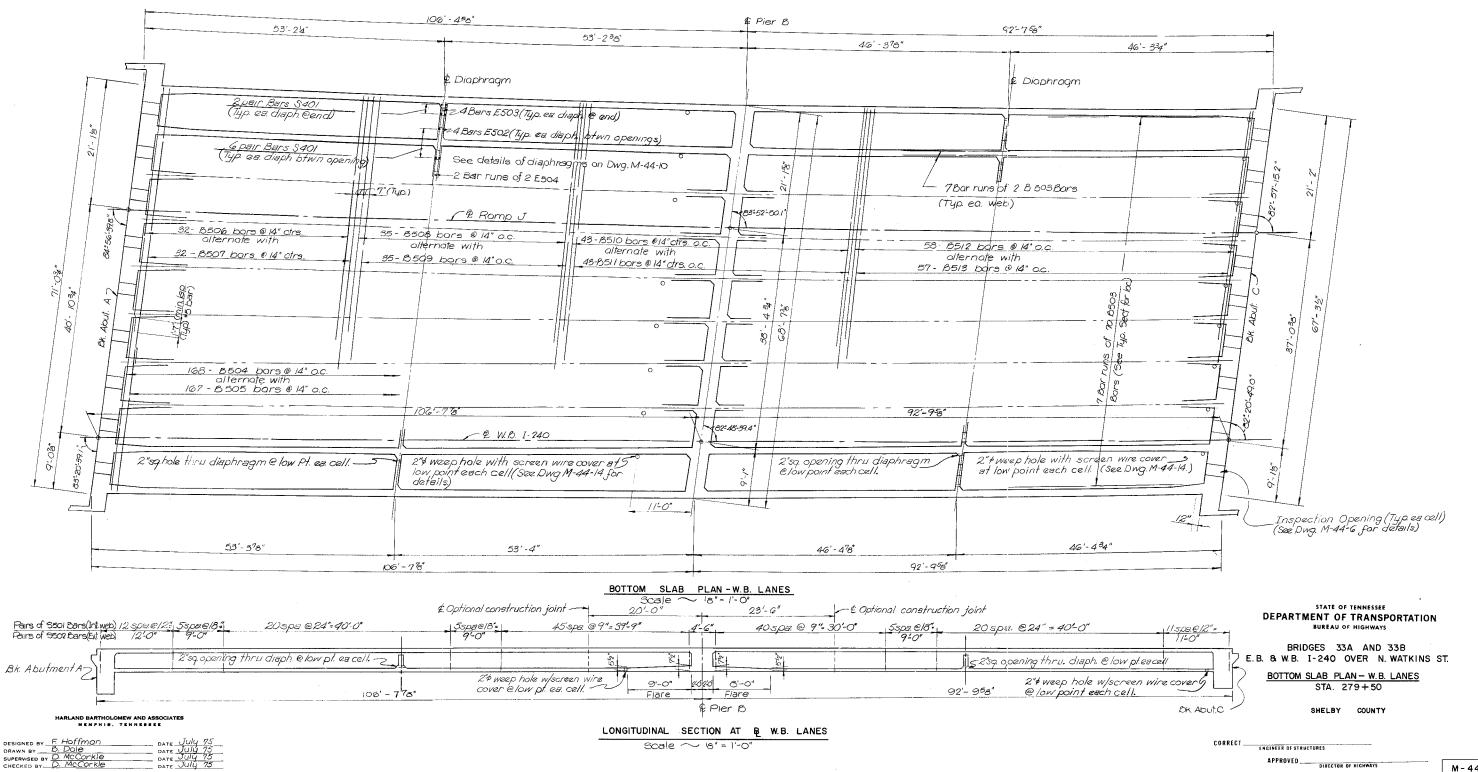


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<u>Construction Note:</u> Forms and supports for the entire bottom slab shall be in place prior to the placement of Superstructure concrete, Concrete for the top and bottom slabs and webs may be placed in any sequence; however, construction Joint's will be permitted at designated location only. No top slab concrete may be placed until all webs have been completed.



MS

Const. No. 79007-3125-44

NOTES

- 1. See Dwg M-44-10 for Typical Section, Bill of Steel and Diaphragm details 2. See Dwg M-44-8 for Estimated Quantilies 3. See Dwg. M-44-11 for End Diaphragm Details 4. The Piar Cap shall be poured monolithically with the Superstructure. See Dwg, M-44-8 for details of Pier Cap. 5. See Dwg. M-44-16 for Post-Tensioning Details
- 6. See Note 8 on Dwg. M-44-12 for min. lap.

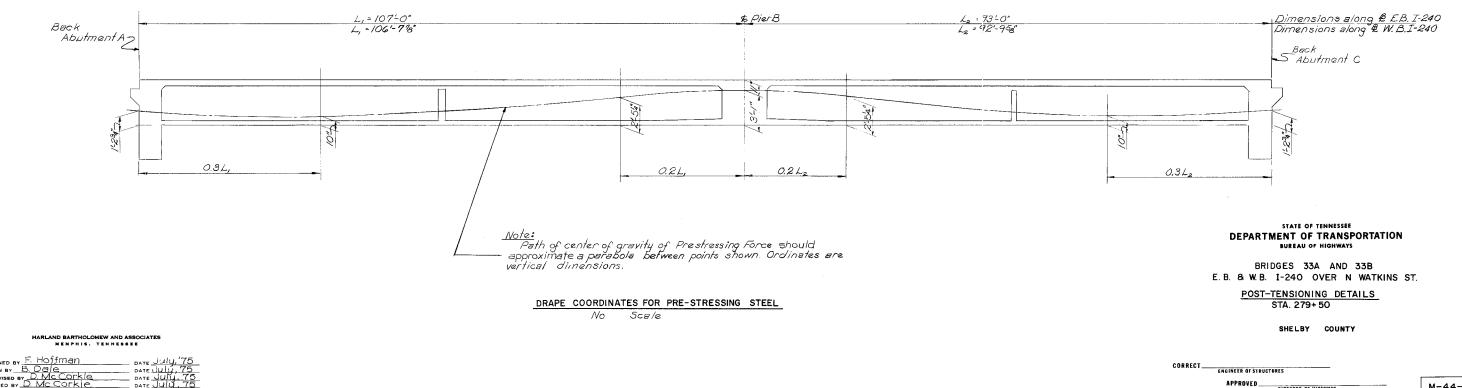
PF	ROJECT	NO.	YEAR	SHEET NO.	
EAC 1-240-1326			1975		
			REVISION	S	
NO. DATE BY BRIEF DESCRIPTION					
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Notes:

- 1. <u>Post-Tensiong:</u> See Special Provision No 560, Special Provision regarding Post Tensioned Concrete, and notes this sheet.
- 2. <u>Concrete</u>: To be Class A ft 4000 psi. Stressing operations shall not begin until the concrete has reached a compressive strength of 3500 psi. as indicated by test specimens. See Section G15-09 of the Tennessee Standard Specification
- 3. <u>Design:</u> Based on U=0.25 and K=0.0002. Pluack specification at the Jacking Ends includes friction losses plus provision for 3600 psi. loss in stress at Jacking plus 29,800 psi. long term loss in stress for E. B. Lanes, and 3900 psi. loss in stress at jacking plus 30,000 psi long term loss in stress for the W.B. Lanes.
- 4. <u>Tensioning Force</u>: The maximun required tensioning force at the jack is 1506 kips per web, which is 76 percent of the specified minimum ultimate tensile strength of the pre-stressed steel. Tendons shall be jacked to the above value and anchored at an equivalent anchor set of 8."
- 5. <u>Stressing Sequence</u>: Jacking shall be done from both Abutments Avoid stressing sequence that will cause unsymmetrical forces about a vertical axis.
- 6. Clearance for Post-Tensioning Units: Horizontal clearance between units-2/2 minimun. Units may be bundled vertically in group of 3 maximum. Vertical clearance between bundled units = 3"mininum.
- 7. Bar Reinforcement interfering with prestressing tendon alignment shall be adjusted by the Engineer.
- 8. Form work shall not be removed until all Post Tensioning is complete.
- 9. If ducts, are to be placed within limits of bottom, stab, provision shall be made to the the ducts to the vertical steel before the bottom stab is poured
- 10. Ducts to be vented through slab to within 3ft. of high point of cable path.
- 11. Anchorage details are to be determined by the fabricator, Double end pulls of all tendons are required.
- 12. <u>Reinforcing Steel</u>: Reinforcing Steel required at each end anchorage shall not be paid for separately, but shall be included in the price bid for Post-tensioning. These details are to be included in post-tensioning shop drawings.
- 18 <u>Chamber</u>: Dead load chamber shown on the plans is based on Ec=1,214,700 p.s.i. The Contractor shall submit calculations of deflections due to prestress load based on tendon arrangement selected and Ec=1,214,700psi. These deflections shall be subtraction from the dead load comber shown on these plans and adjusted for the vertical curve to determine screed elevations for pouring.

SECTION PROPERTIES								
	At & Spans(bot. slab t=52")	At & Piers(bot slab t= 7/2")						
Bridge 334+ (M.B. Lanes)	A = 16,218 in.2	A = 17,640 in.2						
	I = 5,371,043 in.4	I = 5, 9/5, 383 in.4						
	Zt= 254,467 in.3	Z ₁ = 259,994 in. ³						
	Zb= 199,719 in3	Z6= 234,291 in.3						
	Y4= 21.107 in	Yf = 22.752 i.n.						
	YB= 26.731 in.	Y6 = 25.248 in						
Brídge 33B (E.B. Lanas)	A = 20,367 in.2	A = 22,245 /n ²						
	I = 6, 866,092 in.4	I = 7, 570,455 in ⁴						
	Z4= 322,8/6 in,3	Zt= 329,475 in.3						
	Zb= 256,863 in.3	ZL= 302,544 m?						
	Yy = 21.269 in.	Y ₄ = 22.977 in.						
	YG= 26.731 in.	Y6 = 25.023 in.						

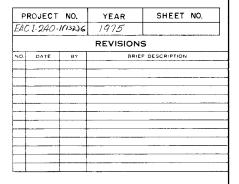
* Note Section properties for Br33A are based on an average structure width of 77'3".

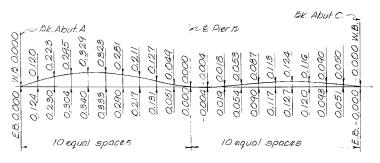


MCROFILM

pesigned by F. Hoffman	DATE JULY,
DRAWN BY B. Dale	DATE JULU,
SUPERVISED BY D. McCorkle	DATE JULU.
CHECKED BY D. MC COLKIE	DATE (UU)

Const. No. 79007-3125-44

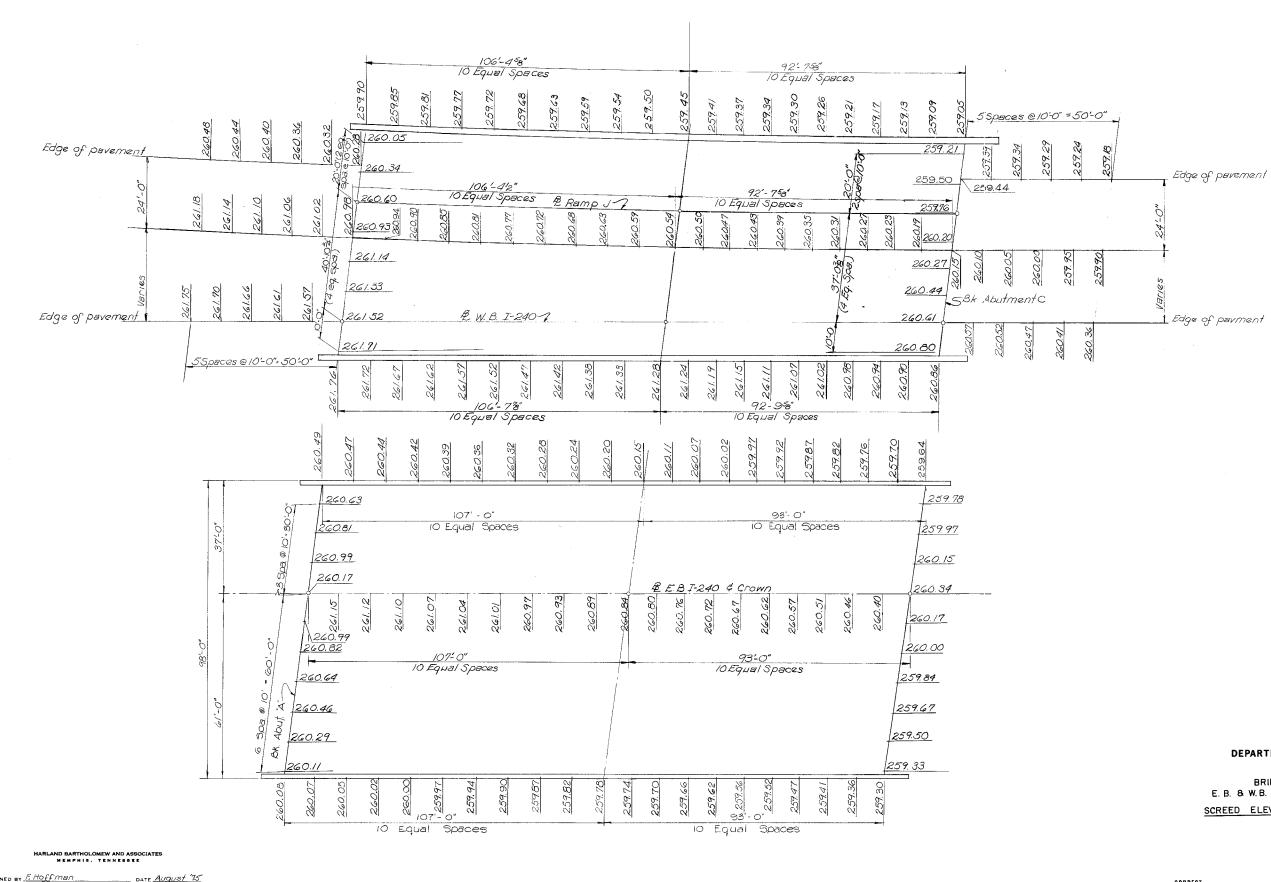




DEAD LOAD CAMBER DIAGRAM

NOTE: The curve shows the dead load camber only. Camber shall be increased by the amount of anticipated take -up in the falsework. Camber values are based on Ec = 1, 214, 700 psi. See Note 13 this Dwg. foradjustments necessary due to prestress forces and vertical curve.

APPROVED M-44-16 DIRECTOR OF HIGHWAYS



Designed by <u>F.Hoffman</u> Date <u>August</u> '15' Drawn by <u>J.M.Iam</u> Date <u>August</u> '15' Supervised by <u>D.McCorkla</u> Date <u>August</u> '135' Checked by <u>D.McCorkla</u> Date <u>August</u> '135'

Const. No. 79007-3125-44

1	ROJECT		YEAR 1915	SHEET	NO.					
EAC I-240-1(132)6 1915 REVISIONS										
NO.	O DATE BY BRIEF DESCRIPTION									

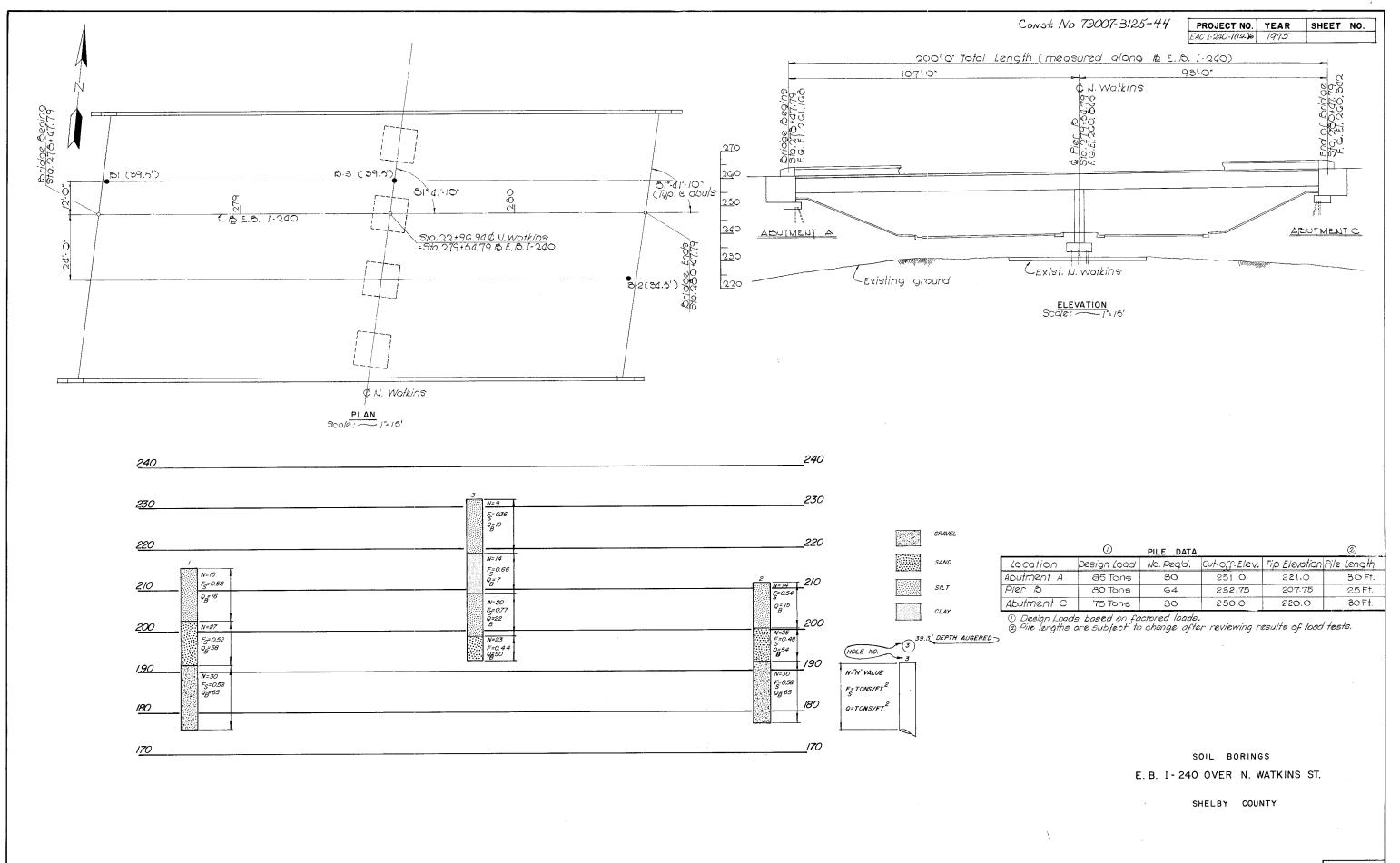
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

BRIDGES 33A AND 33B E. B. & W.B. I-240 OVER N. WATKINS ST. SCREED ELEVATIONS & RAIL POST SPACING STA. 279 + 50

SHELBY COUNTY

CORRECT_____ENGINEER OF STRUCTURES

APPROVED ______ DIRECTOR OF HIGHWAYS



MICROFILME

M-44-18

