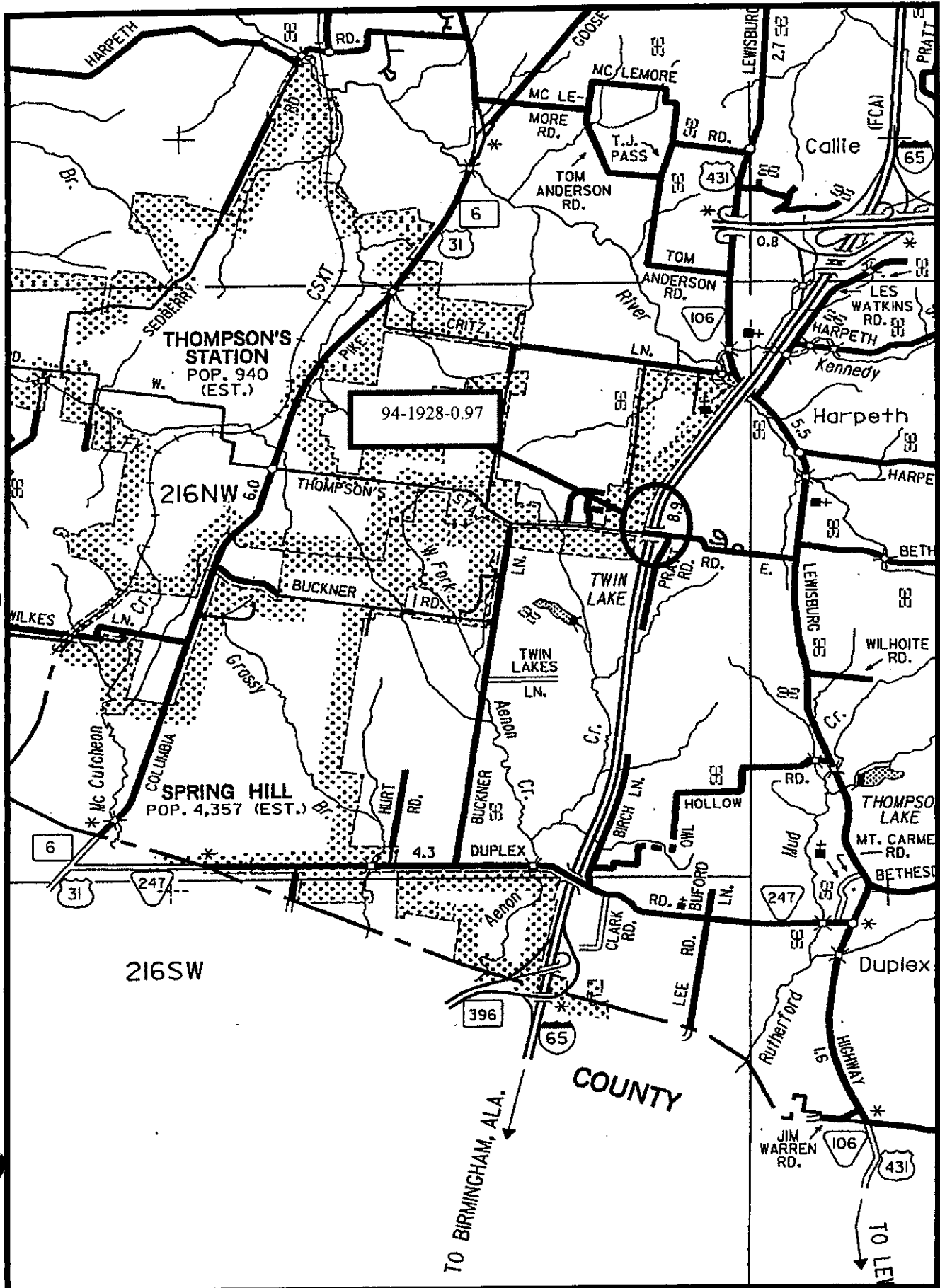


Date: 08/20/03

Williamson County



Christopher McDonald

From: TDOT BridgeEval
Sent: Monday, November 13, 2023 2:41 PM
To: Christopher McDonald
Subject: FW: Bridge Fed.ID. # 94I00650003 (94 - 01928 - 0.97) Posting Required
Attachments: 01Nov23_1.jpg

From: Mason Pitt <Mason.Pitt@tn.gov>
Sent: Monday, November 13, 2023 1:50 PM
To: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Cc: Blake Howell <Blake.Howell@tn.gov>; Brandon Wheeley <Brandon.Wheeley@tn.gov>
Subject: FW: Bridge Fed.ID. # 94I00650003 (94 - 01928 - 0.97) Posting Required

The subject bridge was posted 11/1. Photo attached.



Mason Pitt | Regional Bridge Engineer
Region 3 Bridge Inspection and Repair
Region 3 Headquarters 3rd Floor
6601 Centennial Blvd, Nashville, TN 37243
p. 615-350-4496 c. 615-445-9040
mason.pitt@tn.gov

From: Eric Lawson <Eric.Lawson@tn.gov>
Sent: Monday, November 13, 2023 10:52 AM
To: Mason Pitt <Mason.Pitt@tn.gov>
Cc: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Subject: RE: Bridge Fed.ID. # 94I00650003 (94 - 01928 - 0.97) Posting Required

Happy Monday, Mason.

This sign was posted on 11/1.



Eric Lawson | Technician Supervisor
Region 3 Highway Marking
Building F

NOV 2023 40T POSTING COMPLIANCE PHOTOS

6609 Centennial Blvd., Nashville, TN 37243
p. 615-350-4417
eric.lawson@tn.gov
tn.gov/tdot

From: Mason Pitt <Mason.Pitt@tn.gov>
Sent: Wednesday, November 8, 2023 9:19 AM
To: Eric Lawson <Eric.Lawson@tn.gov>
Cc: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Subject: FW: Bridge Fed.ID. # 94I00650003 (94 - 01928 - 0.97) Posting Required

Hey Eric,

This posting is past due. Can you let me know the status?

Thanks,
Mason



Mason Pitt | Regional Bridge Engineer
Region 3 Bridge Inspection and Repair
Region 3 Headquarters 3rd Floor
6601 Centennial Blvd, Nashville, TN 37243
p. 615-350-4496 c. 615-445-9040
mason.pitt@tn.gov

From: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Sent: Tuesday, November 7, 2023 8:24 AM
To: Mason Pitt <Mason.Pitt@tn.gov>
Cc: Rebecca Hayworth <Rebecca.Hayworth@tn.gov>; TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Subject: FW: Bridge Fed.ID. # 94I00650003 (94 - 01928 - 0.97) Posting Required

Good morning Mason,

Is the missing posting replaced for this bridge?

Thank you,

NOV 2023 40T POSTING COMPLIANCE PHOTOS



Na'il Alammori | Transp. Project Spec. Sr.
Structures Division - Bridge Inspection
James K. Polk Bldg. 12th Floor
505 Deaderick St., Nashville, TN 37243
p. (615) 741- 7315
Nail.Alammori@tn.gov
tn.gov/tdot

From: TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Sent: Monday, October 16, 2023 2:08 PM
To: Mason Pitt <Mason.Pitt@tn.gov>
Cc: Rebecca Hayworth <Rebecca.Hayworth@tn.gov>; Steven Paulson <Steven.Paulson@tn.gov>; TDOT BridgeEval <TDOT.BridgeEval@tn.gov>
Subject: Bridge Fed.ID. # 94100650003 (94 - 01928 - 0.97) Posting Required

Mason,

The subject bridge is missing one of its 40 tons posting signs. Please see attached letter for more details.

Thank you,



Na'il Alammori | Transp. Project Spec. Sr.
Structures Division - Bridge Inspection
James K. Polk Bldg. 12th Floor
505 Deaderick St., Nashville, TN 37243
p. (615) 741- 7315
Nail.Alammori@tn.gov
tn.gov/tdot



Free version of
GPS Camera 55





WEIGHT POSTING SIGN IN APPR. #1 ONLY



CRACK IN BOTTOM OF BOX BEAM "A", SPAN #1



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION**

BRIDGE INSPECTION AND REPAIR OFFICE

SUITE 1200, JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-1403
(615) 741-0776

BUTCH ELEY

Deputy Governor
Commissioner of Transportation

BILL LEE

GOVERNOR

October 16, 2023

To: Mason Pitt
Tennessee Department of Transportation
Region 3 Bridge Engineer

Subject: Non-compliance with Weight Limit Posting Requirements
Bridge Federal ID No. 94100650003
Bridge Location No. 94 - 01928 - 0.97
THOMPSON STATION RD. E. over NFA 1928 / I65
Williamson County

The subject bridge was inspected by TDOT field personnel on February 01, 2023. At the time of inspection, the bridge was required to be posted for a gross weight limit of 40 tons for all vehicles. The following are deficiencies of the weight limit posting signs:

The weight limit posting sign is missing at Approach 2.

The deficiencies described above shall be corrected by October 30, 2023. Compliance with the weight limit posting requirements shall be confirmed by taking photographs of all the bridge weight posting signs and emailing these photographs to TDOT.BridgeEval@tn.gov. Each photograph must show the face of the sign clearly so that the weight limit values can be confirmed. Photographs shall be taken at both approaches to the bridge even if only one sign is deficient.

Posting signs shall meet the minimum requirements of the MUTCD (Manual of Uniform Traffic Control Devices). See the attached "Tennessee Standard Weight Posting Signs" for additional details.

If structural repairs are completed, the TDOT Regional Bridge Engineer should be notified so a follow-up inspection can be completed. Please email any construction plans or as-built drawings to TDOT.BridgeEval@tn.gov so that we can better evaluate the work performed.

Should you have any questions, please advise.

Sincerely,

Ted Kniazewycz, PE
Director of Structures



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 07/31/2003

Bridge Number: 94I006500031
(Includes Item 5A)
Feature Intersected: NFA 1928 / I65
Evaluation Status:

County: 94
Route: 01928
Special Case: 0
County Sequence: 1
Log Mile: 0.97

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)
90	INSPECTION DATE	<u>08/16/2001</u> <u>08/20/03</u>	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN. _____ FT. _____ IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. _____ FT. _____ IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT 1 1 1 1 UNKNOWN		7 GOOD CONDITION - SOME MINOR PROBLEMS.
41	STRC OPEN/CLOSED/POSTED A K P	A	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
58	DECK	7	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	7	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
60	SUBSTRUCTURE	8	3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS 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 PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
62	CULVERT AND RETAIN WALL	N	1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
71	WATERWAY ADEQUACY	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
72	APPROACH RDWY ALIGNMENT	6	
521	OVERALL CONDITION	GOOD	

TEAM LEADER SIGNATURE 08/20/03
REVIEW DATE

Underpass Condition Coding Form

Revised 08/01/2003

Bridge Number: 94I006500032
(Includes Item 5A)

County: 94

Route: 10065

Special Case: 0

County Sequence: 1

Feature Intersected: NFA 1928 / I65

Log Mile: 3.55

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	<u>08/16/2001</u> <u>08/20/03</u>	515 (A) TYPE UNDERPASS BARRIER CONCRETE BARRIER OR RAIL
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	17 FT. 3 IN. ____ FT. ____ IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	17 FT. 3 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 1
47	TOTAL HORIZONTAL UNDERCLEARANCE	63 FT. 0 IN. <u>63</u> FT. <u>2</u> IN.	(C) ADEQUACY OF TRANSITIONS 1
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)	Circle One: <u>H</u> R <u>17</u> FT. <u>3</u> IN.	(D) ADEQUACY OF TERMINALS 1
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE	Circle One: <u>H</u> R <u>11</u> FT. <u>0</u> IN.	554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING ____ FT. ____ IN. ____ FT. ____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u>28</u> FT. <u>6</u> IN.	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [X] N/A []
521	OVERALL CONDITION	GOOD	
555	COMMENTS		


TEAM LEADER SIGNATURE

08/20/03
REVIEW DATE

Page No._____

Page 1 of 1

Bridge Location No.: 94 - 01928 - 0.97 N

Bridge Number: 94I00650003

Co.	Route	Log Mile
-----	-------	----------

County: WILLIAMSON

Crossing: I65

Region: 03

Bridge Rating: GOOD

District: 31

Inspection Cycle: 16

Maint.Resp.: 01

Inspection Date: 8/20/2003

Spec.Case: 0

Co.Seq: 01

Comments: -0-

Level of Service: 1

Number Main Spans: 004

Owner: 01

Number Appr Spans: 0000

Appr Rdwy (xxx ft): 030

Bridge Length (xxxxxx ft) 000239

Skew: 87

Curb-to-Curb (xxx.x ft): 0240

Type of Service: 11

Out-to-Out (xxx.x ft): 0286

Main Structure Type: 505

Item 500: 11

Appr Structure Type: 000

Facility Carried By: NFA 1928 (SA 9405)

Maintenance Recommendations:

Maintenance Completed

By / Date

[illegible]

Bridge No.: 94 — I65 94-1928-0.97
Crossing:: NFA 1928 / I65
Federal No.: 94I00650003

Date: August 20, 2003

PIC1



Br. No. Abutment No. 1

Bridge No.: 94 — I65 -1928-0.97
Crossing:: NFA 1928 / I65
Federal No 94I00650003

Date: August 20, 2003

PIC2



Elev. View, Rt. Side

PIC3



Across Top of Deck

Bridge No.: 94 — I65 -1928-0.97
Crossing:: NFA 1928 / I65
Federal No.: 94I00650003

Date: August 20, 2003

PIC4



Looking Ahead on Route

PIC5



Looking Back on Route

ROUTINE BRIDGE INSPECTION REPORT

Page No. _____

Form BIR 3.0C
(Rev. 9-22-98)
DT-1537

Field Report No. 16 Date 8/20/2003
Previous Report No. 15 Date 8/16/2001
Plans: YES

Bridge No. 94I00650003Bridge Location No. 94 - 01928 - 0.97 N

Eleven Digit No.

THOMPSON'S STATION ROAD over I65

Co. Route Log Mile

Indepth Insp. Req'd: NO

Road Name

Crossing

(If yes itemize limits under comment)

Structure Type PPCBBFRACTURE CRITICAL: NO**FEATURE CHANGES:** NOWearing Surface NO Type CONCRETE Depth _____ (in.)Bridge Rail NO Describe changes:Approach Rail NOCLEARANCE CHANGES: NO (If yes make changes below)

Vertical Clearance over deck _____ (ft.-in.)

Vertical Under Clearance _____ (ft.-in.)

Horizontal Under Clearance 63FT. 2" (*.* ft.)Deck Width Curb/Curb 26.5 (*.* ft.)

Deck Width Rail/Rail _____ (*.* ft.)

Sidewalk Width Rt. _____ Lt. _____

INSPECTORSCHOATEFINCHWILLIAMSCondition: **GOOD** (If change describe in comments)**Comments**

Approaches

Deck Condition (Item 58)

Superstructure (Item 59)

a. Beams

b. Bearings

c. Diaphragms

Substructure (Item 60)

a. Caps/Bridge Seats

b. Columns/Piles

c. Footings

d. Wing W./Breast W.

Scour/Erosion

Channel (Item 61)

GOOD	
G	
FAIR	CRACKS W/EFF. STAINS & RUST STAINS
GOOD	
GOOD	
GOOD	
N/V	
GOOD	
GOOD	
N/A	NON-F.A. OVER I-65

UNDERWATER INSPECTIONTo Be Performed By: NONE REQUIRED

Date Underwater Insp. _____

BRIDGE is: OPEN**COMMENTS:**Weight Limit Posted NO

Gross..... Tons

2 Axle..... Tons

3 or more Axles.. Tons

Supervising Bridge Inspector: _____

BRIDGE RATING: GOOD

INSPECTION TEAM'S SUMMARY
BRIDGE NUMBER 94-1928-0.97
NON-FA ROUTE 1928 OVER I-65

AUGUST 20, 2003

The subject bridge was inspected, on the above date, and found to be in good condition.

This structure is a 4 span precast, prestressed, concrete box beam bridge on an 86°42' skew to the left. All substructure members are cast-in-place concrete. The bridge has a roadway width of 26'-6" and a total length of 239'-3".

The approach alignment and embankment are rated good. The approach pavement is good.

The approach guardrail and the bridge railing are good and substandard. Paddleboard stickers are in place.

The wearing surface is good. The parapets are rated good. The deck structural consists of box beams with a few light to moderate cracks leaching.

All substructure members are rated good.

No channel items exist, this bridge is over I-65.

INSPECTION REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A

Field Report No. 16Date 8/20/2003

(Rev. 9-22-98)

Previous Report No. 15Date 8/16/2001

DT-1443

Bridge No. 94I00650003

Eleven Digit No.

Underpass Location No. 94 - I0065 - 3.55 LT

Co. Route Log Mile

or 94 - 01928 - 0097 Nover 94 - I0065 - 3.55 LT

Railroad/Walkway

Co. Route Log Mile

Co. Route Log Mile

County WILLIAMSON

Structure Name (If Named) _____

Year Constructed 1961 ACTUAL

Year Widened _____

Year Rehabilitated 1999**GEOMETRIC FEATURES UNDER BRIDGE**

(*. * ft. unless otherwise noted)

Divided Highway LEFT ROADWAYType of Wearing Surface ASPHALTWidth of Approach Traveled Roadway 23.8 ft. (Does Not Include Shoulders)Width of Median if Divided Highway 50 ft.Approach Shoulder Width 11 ft. Right _____ ft. Left*Horizontal Clearance Under Bridge 63FT. 2 IN ft.*Distance Between Pier Protection
Guardrail and Substructure_____ ft. Right 17 ft. Left

*Width of Sidewalk Under Bridge

_____ ft. Right _____ ft. Left

*Minimum Vertical Clearance:

17 ft. 3 in. (ft.-in.)

*Show on Sketch

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet

Approach Guardrail Terminals

Approach Guardrail

Approach Guardrail Terminal

Rating Standard/ SubStandard
Non Exist

GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD

INSPECTORS

1. CHOATE
2. FINCH
3. WILLIAMS
4. _____
5. _____
6. _____

SIGNING

Yes/ No/ Needed

Paddleboards

NO

Vertical Clearance (<14'-6")

NO

Narrow Passage

NO

One Lane Passage

NO

Other Underpass Signs Needed

Form BIR 3.0A (Continued)

Date 8/20/2003

(Rev. 9-22-98)

Underpass Location No. 94 - I0065 - 3.55 LT
Co. Route Log Mile

DT-1443

Other Signs or Plaques: NONEComments Regarding any
Problems with Signing: NONE**BRIDGE FEATURES** (*.* ft.)Bridge Skew 87° LTNumber of Lanes/Tracks on Bridge 2Structure Type (Main Span) PPCBBNo. Main Spans 4Structure Type (Appr. Spans) N/ANo. Appr. Spans 0Maximum Span Length 66 (ft.) Total Length 239 (ft.)Width of Bridge Out-to-Out 29 (ft.) Right Angle to Centerline of Bridge)Width of Bridge Along Skew — (ft.) (If Unable to Measure at Right
Angle to Centerline of Bridge)**BRIDGE CONDITION:** GOODDoes Potential Exist for Elements from Bridge Falling on Roadway Beneath? NODoes Potential Exist Because of Deteriorated Condition or Failure of Major Members? NOComment on any Conditions of Bridge that would Effect Roadway Beneath: NONE

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 REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A

(Rev. 9-22-98)

DT-1443

Field Report No. 16Date 8/20/2003Previous Report No. 15Date 8/16/2001Bridge No. 94100650003

Eleven Digit No.

Underpass Location No. 94 - 10065 - 3.55 RT

Co. Route Log Mile

or 94 - 01928 - 0097 Nover 94 - 10065 - 3.55 RT

Railroad/Walkway

Co. Route Log Mile

Co. Route Log Mile

County WILLIAMSON

Structure Name (If Named) _____

Year Constructed 1961 ACTUAL

Year Widened _____

Year Rehabilitated 1999**GEOMETRIC FEATURES UNDER BRIDGE** (*. * ft. unless otherwise noted)Divided Highway RIGHT ROADWAYType of Wearing Surface ASPHALTWidth of Approach Traveled Roadway 23.5 ft. (Does Not Include Shoulders)Width of Median if Divided Highway 50 ft.Approach Shoulder Width 10 ft. Right 4 ft. Left*Horizontal Clearance Under Bridge 63FT. 4" ft.*Distance Between Pier Protection
Guardrail and Substructure _____ ft. Right 16'-11" ft. Left

*Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left

*Minimum Vertical Clearance: 17 ft. 3 in. (ft.-in.)

*Show on Sketch

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet

Approach Guardrail Terminals

Approach Guardrail

Approach Guardrail Terminal

Rating Standard/ SubStandard
Non Exist

GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD

INSPECTORS

1. CHOATE
2. FINCH
3. WILLIAMS
4. _____
5. _____
6. _____

SIGNING

Yes/ No/ Needed

Paddleboards

NO

Vertical Clearance (<14'-6")

NO

Narrow Passage

NO

One Lane Passage

NO

Other Underpass Signs Needed

Form BIR 3.0A (Continued)
(Rev. 9-22-98)
DT-1443

Date 8/20/2003

Underpass Location No. 94 - 10065 - 3.55 RT
Co. Route Log Mile

Other Signs or Plaques: NONE

Comments Regarding any
Problems with Signing: NONE

BRIDGE FEATURES (*.* ft.)

Bridge Skew	<u>87° LT</u>	Number of <u>Lanes</u> /Tracks on Bridge	<u>2</u>
Structure Type (Main Span)	<u>PPCBB</u>	No. Main Spans	<u>4</u>
Structure Type (Appr.Spans)	<u>N/A</u>	No. Appr. Spans	<u>0</u>
Maximum Span Length	<u>66</u> (ft.)	Total Length	<u>239</u> (ft.)
Width of Bridge Out-to-Out	<u>29</u> (ft.)	Right Angle to Centerline of Bridge	
Width of Bridge Along Skew	<u> </u> (ft.)	(If Unable to Measure at Right Angle to Centerline of Bridge)	

BRIDGE CONDITION: GOOD

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO
Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath:
NONE

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



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 06/15/2000

Bridge Number: 94I006500031
(Includes Item 5A)

Feature Intersected: NFA 1928 / I65

County: 94
Route: 01928
Special Case: 0
County Sequence: 01
Log Mile: 0.97

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES (Values for Coding Items 58, 59, 60 and 62)
90	INSPECTION DATE	<u>08/23/1999</u> <u>08 / 16 / 2001</u>	N NOT APPLICABLE
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN. ____ FT. ____ IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN. ____ FT. ____ IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Br. Rail Trans. Appr. Rail Appr. Rail Ends		6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	0 0 0 0		5 FAIR CONDITION - ALL PRIMARY 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.
	A K P		3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
58	DECK	<u>8</u> <u>7</u>	2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
59	SUPERSTRUCTURE	<u>7</u>	1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE.
60	SUBSTRUCTURE	<u>8</u>	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	6	
521	OVERALL CONDITION (Circle One)		
	GOOD FAIR POOR CRITICAL		

TEAM LEADER SIGNATURE

REVIEW DATE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 06/15/2000

Bridge Number: 941006500032
(Includes Item 5A)

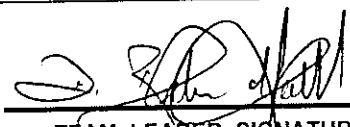
Feature Intersected: NFA 1928 / 165

County: 94
Route: 10065
Special Case: 0
County Sequence: 01
Log Mile: 3.55

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	<u>08/23/1999</u> <u>08 / 16 / 2001</u>	515 (A) TYPE UNDERPASS BARRIER Concrete Barrier or Rail
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>17</u> FT. <u>2</u> IN. <u>17</u> FT. <u>3</u> IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>17</u> FT. <u>3</u> IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL <u>1</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	<u>62</u> FT. <u>11</u> IN. <u>63</u> FT. <u>2</u> IN.	(C) ADEQUACY OF TRANSITIONS <u>1</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) Circle One: <u>H</u> R <u>17</u> FT. <u>3</u> IN.		(D) ADEQUACY OF TERMINALS <u>1</u>
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One: <u>H</u> R <u>11</u> FT. <u>0</u> IN.		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING <u>99</u> FT. <u>99</u> IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u>28</u> FT. <u>6</u> IN.	____ FT. ____ IN.
521	OVERALL CONDITION (Circle One) <u>GOOD</u> FAIR POOR CRITICAL		HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A [✓]

555 COMMENTS


TEAM LEADER SIGNATURE

08 / 16 / 2001
REVIEW DATE

Page No. _____

Page 1 of 1

Bridge Location No.: 94 - 01928 - 0.97 N

Co.	Route	Log Mile
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Bridge Number: 94I00650003

County: WILLIAMSON

Crossing: 165

Region: 03

Bridge Rating: FAIR

District: 31

Inspection Cycle: 15

Maint.Resp.: 01

Inspection Date: 8/16/01

Spec. Case: 0

Co.Seq: 01

Comments: -0-

Level of Service: 1

Number Main Spans: 004

Owner: 01

Number Appr Spans: 0000

Appr Rdwy (xxx ft): 030

Bridge Length (xxxxxx ft) 000239

Skew: 87

Curb-to-Curb (xxx.x ft): 0240

Type of Service: 11

Out-to-Out (xxx.x ft): 0286

Main Structure Type: 505

Item 500: 11

Appr Structure Type: 000

Facility Carried By: NFA 1928 (SA 9405)

Maintenance Recommendations:

Maintenance Completed

By / Date

[illegible]

Bridge No.: 94 — 01928 — 0097

Crossing:: NFA 1928 / I65

Federal No.: 94I00650003

Date:

August 16, 2001

PIC1



BR. NO. ABUTMENT NO. 1

Bridge No.: 94 —01928 — 0097
Crossing:: NFA 1928 / I65
Federal No 94I00650003

Date: August 16, 2001

PIC2



ACROSS TOP OF DECK

PIC3



ELEV. VIEW, RT. SIDE

Bridge No.: 94 — 01928 — 0097
Crossing:: NFA 1928 / I65
Federal No.: 94I00650003

Date:

August 16, 2001

PIC4



LOOKING AHEAD ON ROUTE

PIC5



LOOKING BACK ON ROUTE

ROUTINE BRIDGE INSPECTION REPORT

Page No. _____

Form BIR 3.0C
(Rev. 9-22-98)
DT-1537

Field Report No. 15 Date 8/16/01
Previous Report No. 14 Date 8/23/99
Plans: YES

Bridge No. 94100650003

Bridge Location No. 94 - 01928 - 0.97 N

Eleven Digit No.
THOMPSON'S STATION ROAD over I65

Co. Route Log Mile
Indepth Insp. Req'd: NO

Road Name

Crossing

(If yes itemize limits under comment)

Structure Type PPCBB

FRACTURE CRITICAL: NO

FEATURE CHANGES: NO

Wearing Surface NO Type CONCRETE Depth _____ (in.)

Bridge Rail NO Describe changes:

Approach Rail NO

CLEARANCE CHANGES: NO (If yes make changes below)

Vertical Clearance over deck _____ (ft.-in.)

Vertical Under Clearance _____ (ft.-in.)

Horizontal Under Clearance 63FT. 4IN. (*. * ft.)

Deck Width Curb/Curb 26.5 (*. * ft.)

Deck Width Rail/Rail _____ (*. * ft.)

Sidewalk Width Rt. _____ Lt. _____

INSPECTORS

HOWELL

CHOATE

FINCH

WILLIAMS

Condition: FAIR (If change describe in comments)

Comments

Approaches	GOOD	
Deck Condition (Item 58)	G	
Superstructure (Item 59)		
a. Beams	FAIR	CRACKS W/EFF. STAINS & RUST STAINS
b. Bearings	GOOD	
c. Diaphragms	-	
Substructure (Item 60)		
a. Caps/Bridge Seats	GOOD	
b. Columns/Piles	GOOD	
c. Footings	N/V	
d. Wing W./Breast W.	GOOD	
Scour/Erosion	GOOD	
Channel (Item 61)	N/A	NON-F.A. OVER I-65

UNDERWATER INSPECTION

To Be Performed By: NONE REQUIRED

Date Underwater Insp. _____

BRIDGE is: OPEN

COMMENTS:

Weight Limit Posted NO

Gross..... Tons

2 Axle..... Tons

3 or more Axles.. Tons

Supervising Bridge Inspector: _____

BRIDGE RATING: FAIR

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. 15 Date 8/16/01
Previous Report No. 14 Date 8/23/99

Bridge No. 94100650003
Eleven Digit No.

Underpass Location No.	94	-	10065	-	3.55	LT.
	Co.		Route		Log Mile	

Railroad/Walkway or 94 - 01928 - 0097 N

over	94	-	10065	-	3.55	LT.
	Co.		Route		Log Mile	

County WILLIAMSON

Structure Name (If Named) _____

Year Constructed 1961 ACTUAL

Year Widened Year Rehabilitated 1999

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)

Divided Highway LEFT ROADWAY Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 23.8 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway	50	ft.
------------------------------------	----	-----

Approach Shoulder Width 11 ft. Right 1 ft. Left

*Horizontal Clearance Under Bridge 63FT. 2 IN ft.

*Distance Between Pier Protection Guardrail and Substructure	—	ft. Right	17	ft. Left
---	---	-----------	----	----------

*Width of Sidewalk Under Bridge — ft. Right — ft. Left

*Minimum Vertical Clearance: 17 ft. 3 in. (ft.-in.)

***Show on Sketch**

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet

Approach Guardrail Terminals

Approach Guardrail

Approach Guardrail Terminal

Rating	Standard/ SubStandard Non Exist
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD

SIGNING

Yes/ No/ Needed

Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO

Other Underpass Signs Needed

INSPECTORS

- | | |
|----|----------|
| 1. | HOWELL |
| 2. | CHOATE |
| 3. | FINCH |
| 4. | WILLIAMS |
| 5. | |
| 6. | |

Form BIR 3.0A (Continued)

Date 8/16/01

(Rev. 9-22-98)

Underpass Location No. 94 - I0065 - 3.55 LT.
Co. Route Log Mile

DT-1443

Other Signs or Plaques: NONEComments Regarding any
Problems with Signing: NONE**BRIDGE FEATURES** (*.* ft.)

Bridge Skew <u>87° LT</u>	Number of Lanes/Tracks on Bridge <u>2</u>
Structure Type (Main Span) <u>PPCBB</u>	No. Main Spans <u>4</u>
Structure Type (Appr. Spans) <u>N/A</u>	No. Appr. Spans <u>0</u>
Maximum Span Length <u>66</u> (ft.)	Total Length <u>239</u> (ft.)
Width of Bridge Out-to-Out <u>29</u> (ft.)	Right Angle to Centerline of Bridge)
Width of Bridge Along Skew <u>—</u> (ft.)	(If Unable to Measure at Right Angle to Centerline of Bridge)

BRIDGE CONDITION: GOOD

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO

Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath: NONE

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 REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. 15 Date 8/16/01
Previous Report No. 14 Date 8/23/99

Bridge No. 94100650003
Eleven Digit No.

Underpass Location No. 94 - 10065 - 3.55 RT
Co. Route Log Mile

 or 94 - 01928 - 0097 N
Railroad/Walkway Co. Route Log Mile

over 94 - 10065 - 3.55 RT
Co. Route Log Mile

County WILLIAMSON

Structure Name (If Named)

Year Constructed 1961 ACTUAL

Year Widened Year Rehabilitated 1999

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)

Divided Highway RIGHT ROADWAY Type of Wearing Surface ASPHALT

Width of Approach Traveled Roadway 23.5 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 50 ft.

Approach Shoulder Width 10 ft. Right 4 ft. Left

*Horizontal Clearance Under Bridge 63FT. 4IN. ft.

*Distance Between Pier Protection
Guardrail and Substructure ft. Right 16'-11" ft. Left

*Width of Sidewalk Under Bridge ft. Right ft. Left

*Minimum Vertical Clearance: 17 ft. 3 in. (ft.-in.)

*Show on Sketch

TRAFFIC SAFETY FEATURES

Pier Protection Railing or Parapet
Approach Guardrail Terminals
Approach Guardrail
Approach Guardrail Terminal

Rating	Standard/ SubStandard Non Exist
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD
GOOD	STANDARD

INSPECTORS

1. HOWELL
2. CHOATE
3. FINCH
4. WILLIAMS
5.
6.

SIGNING

Yes/ No/ Needed

Paddleboards	NO
Vertical Clearance (<14'-6")	NO
Narrow Passage	NO
One Lane Passage	NO

Other Underpass Signs Needed

Form BIR 3.0A (Continued)
(Rev. 9-22-98)
DT-1443

Date 8/16/01

Underpass Location No. 94 - 10065 - 3.55 RT
Co. Route Log Mile

Other Signs or Plaques: NONE

Comments Regarding any
Problems with Signing: NONE

BRIDGE FEATURES (* * ft.)

Bridge Skew 87° LT Number of Lanes/Tracks on Bridge 2
Structure Type (Main Span) PPCBB No. Main Spans 4
Structure Type (Appr. Spans) N/A No. Appr. Spans 0
Maximum Span Length 66 (ft.) Total Length 239 (ft.)
Width of Bridge Out-to-Out 29 (ft.) Right Angle to Centerline of Bridge)
Width of Bridge Along Skew — (ft.) (If Unable to Measure at Right
Angle to Centerline of Bridge)

BRIDGE CONDITION: GOOD

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath? NO
Does Potential Exist Because of Deteriorated Condition or Failure of Major Members? NO

Comment on any Conditions of Bridge that would Effect Roadway Beneath:
NONE

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
BRIDGE NUMBER 94-1928-0.97
NON-FA ROUTE 1928 OVER I-65

AUGUST 16, 2001

The subject bridge was inspected, on the above date, and found to be in good condition.

This structure is a 4 span precast, prestressed, concrete box beam bridge on an 86°42' skew to the left. All substructure members are cast-in-place concrete. The bridge has a roadway width of 26'-6" and a total length of 239'-3".

The approach alignment and embankment are rated good. The approach pavement is good.

The approach guardrailing and the bridge railing are good and substandard. Paddleboard stickers are in place.

The wearing surface is good with new asphalt. The parapets are rated good. The deck structural consists of box beams with a few light to moderate cracks leaching.

All substructure members are rated good.

No channel items exist, this bridge is over I-65.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

County: 94

Route: 01928

Special Case: 0

County Sequence: 1

Log Mile: 0.97

Bridge Number: 941006500031
(Includes Item 5A)

Feature Intersected: NFA 1928 / 165

CODE ONLY THOSE NUMBERS WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	COMMENTS
90	INSPECTION DATE	9/16/97	RATINGS FOR CODING ITEMS 58, 59, 60 AND 62
		09 / 16 / 99	N 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 GOOD CONDITION - SOME MINOR PROBLEMS.
		FT. IN.	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)	17 FT. 2 IN.	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	Circle One: <u>H</u> R N	17 FT. 3 IN.	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
36	TRAFFIC SAFETY FEATURES		3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
	Br. Rail Trans. Appr. Rail Appr. Rail Ends		2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
	0 0 0 0		1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE.
41	STRC OPEN/CLOSED/POSTED	A	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
	A K P		
58	DECK	6	
		7	
59	SUPERSTRUCTURE	7	
60	SUBSTRUCTURE	8	
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	
72	APPROACH RDWY ALIGNMENT (USE VALUES OF 3, 6, OR 8)	6	
	OVERALL CONDITION (Circle One)		
	<u>GOOD</u> FAIR POOR CRITICAL		
	SIGNATURE	DATE	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

County: 94

Route: 10065

Special Case: 0

County Sequence: 1

Log Mile: 3.55

Bridge Number: 941006500032
(Includes Item 5A)

Feature Intersected: NFA 1928 / 165

CODE ONLY THOSE NUMBERS WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	INSPECTION DATE	9/16/97 <u>09 / 23 / 97</u>	(A) TYPE UNDERPASS BARRIER Concrete Barrier or Rail
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	17 FT. 2 IN. <u>17 FT. 3 IN.</u>	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	17 FT. 3 IN.	
47	TOTAL HORIZONTAL UNDERCLEARANCE	62 FT. 11 IN. <u>63 FT. 2 IN.</u>	(B) ADEQUACY OF BARRIER OR RAIL 1
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE	11 FT. 1 IN. <u>11 FT. 0 IN.</u>	(C) ADEQUACY OF TRANSITIONS 1
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	28 FT. 6 IN. <u>FT. IN.</u>	(D) ADEQUACY OF TERMINALS 1
OVERALL CONDITION (Circle One)			VERTICAL CLEARANCE LISTED ON HEIGHT POSTING SIGNS 99 FT. 99 IN. <u>FT. IN.</u>
☒ GOOD ☐ FAIR ☐ POOR ☐ CRITICAL		HEIGHT POSTED AT BOTH APPROACHES?	YES [] NO [] N/A []

NOTE: DESCRIBE ANY PROBLEMS ON BRIDGES THAT THE STATE DOES NOT INSPECT (SUCH AS RAILROAD OR PRIVATE BRIDGES) THAT WOULD AFFECT THE ROADWAY SUCH AS LOOSE MEMBERS, SEVERELY SPALLED OR CRACKED CONCRETE, EXCESSIVE SECTION LOSS ON STEEL, EXCESSIVE TIMBER DECAY, ETC. ALSO, DESCRIBE ANY UNSAFE ITEMS.

COMMENTS _____

[Signature]
SIGNATURE

09 / 23 / 97
DATE

BRIDGE MAINTENANCE RECOMMENDATIONS

BRIDGE SEQ. NO. : 94I00650003

BRIDGE NO. : 94 - 01928 - 0097 - N
OVER : NFA 1928 / 165

DATE : 09/21/99 BRIDGE RATING : GOOD COUNTY : Williamson
CO. SEQ. : 01 INSPECTION CYCLE : 14 MAINT DIST : 31
SPEC. CASE : 0 INSPECTION DATE : 08/23/99 REGION : 03

007 - FACILITY CARRIED BY STRUCT : NFA 1928 (SA 9405)
021 - MAINTENANCE RESPONSIBILITY : 01
022 - OWNER : 01
042 - TYPE OF SERVICE : 11
043 - STRUCTURE TYPE, MAIN : 505
044 - STRUCTURE TYPE, APPROACH : 000
045 - SPANS, MAIN UNIT : 004
046 - SPANS, APPROACH : 0000
049 - STRUCTURE LENGTH : 000239
032 - APPROACH ROADWAY WIDTH : 030
034 - SKEW : 86
051 - BRDG RDWY WID, CRB-TO-CRB : 0265
052 - DECK WIDTH, OUT-TO-OUT : 0290
500 - HWY OF THE INVENTORY ROUTE : 11

: MAINTENANCE & REPAIR RECOMMENDATIONS :

: MAINTENANCE COMPLETED :

1	1BY	DATE	---
2	2BY	DATE	---
3	3BY	DATE	---
4	4BY	DATE	---

COMMENTS FOR BRIDGE SEQ. NO. : 94I00650003 :

COMPLETION NOTIFICATION : RETURN WITHIN 6 MONTHS OF INSPECTION DATE

MAINTENANCE ACTIVITIES ARE

--- COMPLETED (DATE) -----
--- PARTIALLY COMPLETE (DATE) -----
--- INCOMPLETE SCHEDULED FOR (DATE) -----

EXPLANATIONS AND COMMENTS:

Bridge No.: 94 — 01928 — 0097

Crossing:: NFA 1928 / I65

Federal No.: 94I00650003

Date:

August 23, 1999

PIC1



BRIDGE NO. AT ABUTMENT # 1

Bridge No.:
Crossing:: NFA 1928 / I65
Federal No 94I00650003

94 —01928 — 0097

Date:

August 23, 1999

PIC2



ACROSS TOP OF DECK, NEW DECK & PARAPETS

PIC3



ELEV. VIEW, RT. SIDE

Bridge No.: 94 — 01928 — 0097
Crossing:: NFA 1928 / I65
Federal No.: 94I00650003

Date: August 23, 1999

PIC4



LOOKING AHEAD ON ROUTE (94-I65-3.55U.P.)

PIC5



LOOKING BACK ON ROUTE (94-I65-3.55U.P.)

BRIDGE INSPECTION REPORT

FORM BIR 3.0
REV. 6-9-92
BT-0069

FIELD REPORT NO.: 14 DATE: 08/23/99
PREVIOUS REPORT NO.: 13 DATE: 09/16/97
PLANS----- YES [X] NO []

BRIDGE NO.: 94I00650003 BRIDGE LOC. NO.: 94 - 1928 - -0.97 - -
ELEVEN DIGIT NO. CO. RTE. L.M.

94 - 1928 -0.97 OVER 165
CO. RTE. L.M.

STRUCTURE NAME (IF NAMED)

YEAR CONSTRUCTED 1961 COUNTY WILLIAMSON MAINTENANCE DISTRICT NO. 33
(ESTIMATED OR ACTUAL)

[] [X]
YEAR WIDENED

ESTIMATED OR ACTUAL
[] []

YEAR REHABILITATED

ESTIMATED OR ACTUAL
[] []

FEATURES

WEARING SURFACE---CONCRETE [X] TIMBER [] ASPHALT [] (DEPTH=)
FLARED WIDTH-----YES [] NO [X]
NAVIGATIONAL CONTROL---YES [] NO [X]
MEDIAN TYPE-----OPEN [] NONE [X] CLOSED []

BRIDGE SKEW 86 _ _

STRUCTURE TYPE PPCBB
MAIN SPAN

NO. SPANS 4
MAIN SPAN

STRUCTURE TYPE-N.A.
APPROACH SPANS

NO. SPANS 0
APPROACH SPANS

MAXIMUM SPAN LENGTH 66. TOTAL LENGTH 239.

INSPECTORS

1. Howell
2. Choate
3. Finch
4. Williams
5.
6.
7.
8.
9.

WIDTHS

DECK OUT-TO-OUT 29.
ROADWAY CURB-TO-CURB 26.5
SIDEWALK RT LT
*APPROACH ROADWAY 24.
APPR.SHOULDER 3.RT 3.LT

CLEARANCES

MIN. VERT. OVER DECK
MIN. VERT. UNDER CL. 17'-3"
MIN. LAT. UNDER CL. 11'-0" RT

28'-6" LT

*DOES NOT INCLUDE SHOULDERS

UNDERWATER INSPECTION

(< 25 FT.)

NBIS BRIDGE

LENGTH >25

(FT.) (INCHES)

INSPECTION PERFORMED BY:

DOT FIELD TEAM [] DATE
CONTRACT DIVERS [] DATE
NONE REQUIRED [X]

FRACTURE CRITICAL

DETAILS: YES [] NO [X]
IF YES, INCLUDE BIR. 3.9

CHANGE IN STRUCTURAL CONDITION YES [X] NO []
MAJOR REPAIRS MADE YES [X] NO []

COMMENTS:

BRIDGE RATING [X] [] [] []
GOOD FAIR POOR CRIT.

SUPERVISING BRIDGE INSPECTOR

FORM BIR 3.1
Rev. 3-1-97
DT-0080

BRIDGE LOC. NO. 94- 1928- 0.97
CO. ROUTE L.M.

DATE: 05/05/99

PERFORMANCE EVALUATION

Time of day inspected 11:30 Weather conditions Cloudy & Rainy

Vehicles observed Cars & Trucks

LIVE LOAD BEHAVIOR

	YES	NO	COMMENTS
Substructure		☒	
Horiz. & Vert. Defl. - - -	[]	☒	
Vibration - - - - -	[]		
Superstructure		☒	
Horiz. & Vert. Defl. - - -	[]	☒	
Vibration - - - - -	[]		

APPROACH

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

New Bridge

TRAFFIC SAFETY FEATURES

		STANDARD	SUB-STANDARD
Bridgerailing	G	☒	[]
Transitions	G	☒	[]
Guardrail	G	☒	[]
Guardrail Terminal	G	☒	[]

SIGNING

	YES	NO	NEEDED	WEIGHT LIMIT POSTS
Paddleboard - - - - -	☒	[]	[]	YES [] NO []
Vertical Clearance (< 14'-6") - - -	[]	☒	[]	GROSS-- TO
Narrow [] One Lane Bridge [] - []	[]	☒	[]	2 AXLE - TO
				3 OR MORE AXLES- TO

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 []
Install Paddleboard Signs []	
Other Recommendations	

FORM BIR 3.2
Rev. 3-1-97
DT-0081

BRIDGE LOC. NO. 94-1928-0.97
CO. ROUTE L.M.

DATE: 02/23/99

COMMENTS

DECK

WEARING SURFACE
DECK - STRUCTURAL
CONDITION

(G) F P C

G F P C

G F P C

CURBS

G F P C

MEDIAN

G F P C

SIDEWALKS

(G) F P C

PARAPET

G F P C

RAILING

G F P C

PAINT

(G) F P C

DRAINS

G F P C

LIGHTING STD'S

G F P C

UTILITIES

G F P C

JOINT LEAKAGE

G F P C

EXPANSION JOINTS

Not Core Jack
N/A: Spots to Spots for Drains

Light Cracks

COMMENTS

SUPERSTRUCTURE

BEARING DEVICES

(G) F P C

GIRDERS OR BEAMS

G (F) P C

FLOOR BEAMS

G F P C

STRINGERS

G F P C

DIAPHRAGMS

G F P C

BRACING

G F P C

TRUSSES - GENERAL

G F P C

- PORTALS

G F P C

- BRACING

G F P C

PAINT

G F P C

ALIGNMENT OF
MEMBERS

(G) F P C

NEEDS
Cracks w/eff. & Post Solvent

TEXTURE COAT

CONDITION RATING

(G) F P C

OVERALL APPEARANCE

(G) F P C

STAINING

(G) F P C

FADING

NEEDS SPOT PAINTING?

(G) F P C

YES [] NO []

NEEDS REPAINTING?

YES [] NO []

COMMENTS:

1-1000 ft. Core & Parapets for Deck Joint Seals

SCALING (G) F P C

RECOMMENDATIONS

last inspection

CLEAN & SEAL JOINTS []

CLEAN DRAINS []

BRIDGE LOC. NO. $\frac{94-1928}{\text{CO. ROUTE}}$ - $\frac{0.97}{\text{L.M.}}$ DATE: 02/23/00

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

FORM BIR 3.0A
Rev. 3-1-97
DT-1443

CURRENT FIELD REPORT NO. 14 DATE 08/21/99
PREVIOUS FIELD REPORT NO. 13 DATE 09/16/97

INSPECTION REPORT FOR UNDERPASS ROUTE

BRIDGE NO. 94I00650003
ELEVEN DIGIT NO.

UNDERPASS LOC. NO. 63 - 165 - 3.55
CO. ROUTE L.M.

94 - 165 - 0.97
CO. RTE. L.M.

OVER 94 - 165 - 3.55
CO. RTE. L.M.

STRUCTURE NAME

COUNTY WILLIAMSON

YEAR CONSTRUCTED 1961
ESTIMATED [] ACTUAL [X]

YEAR WIDENED

YEAR REHABILITATED

GEOMETRIC FEATURES UNDER BRIDGE

DIVIDED HIGHWAY - - - - LEFT RDWY [X] RIGHT RDWY [] N.A. []
TYPE OF WEARING SURFACE - - - - CONCRETE [] ASPHALT [X] GRAVEL []
WIDTH OF APPROACH TRAVELED ROADWAY 23.5 ft (DOES NOT INCLUDE SHOULDERS)
WIDTH OF MEDIAN IF DIVIDED HIGHWAY 50 ft
APPROACH SHOULDER WIDTH 10 ft (RT.) 4 ft (LT.)
*HORIZONTAL CLEARANCE UNDER BRIDGE 63 ft 4 in.
*DISTANCE BETWEEN PIER PROTECTION GUARDRAIL AND
SUBSTRUCTURE ft (RT.) 16'-11" ft (LT.)
*WIDTH OF SIDEWALK UNDER BRIDGE ft (RT.) ft (LT.)
*MINIMUM VERTICAL CLEARANCE 17 ft 3 in

*SHOW ON SKETCH

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE STANDARD SUB-STANDARD

PIER PROTECTION RAILING	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
OR PARAPET	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
APPROACH GUARDRAIL	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
TRANSITIONS	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
APPROACH GUARDRAIL	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
APPROACH GUARDRAIL	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []
TERMINAL	<u>G</u>	F	P	C	<u>[X]</u>	[] NON EXIST []

SIGNING FOR UNDERPASS ROUTE

PADDLEBOARD	YES []	NO <u>[X]</u>	NEEDED []
VERTICAL CLEARANCE	YES []	NO <u>[X]</u>	NEEDED []
(<u>< 14'-6"</u>)	YES []	NO <u>[X]</u>	NEEDED []
NARROW PASSAGE	YES []	NO <u>[X]</u>	NEEDED []
ONE LANE PASSAGE	YES []	NO <u>[X]</u>	NEEDED []

INSPECTORS

1. Howell
2. Choate
3. Finch
4. Williams
5.
6.

NOTE:

FORM BIR 3.0A (CONTINUED)
Rev. 3-1-97
DT-1443

UNDERPASS LOC. NO. 94-165-3.55
CO. ROUTE L.M.

OTHER SIGNS OR PLAQUES None

COMMENTS REGARDING ANY PROBLEM WITH SIGNING None

BRIDGE FEATURES

BRIDGE SKEW 86°42'L

STRUCTURE TYPE P P C B B
MAIN SPAN

NO. SPANS 4
MAIN TYPE

STRUCTURE TYPE N.A.
APPROACH SPAN

NO. SPANS 0
APPROACH TYPE

MAXIMUM SPAN LENGTH 66 ft TOTAL LENGTH 239'-3" ft
WIDTH OF BRIDGE OUT-TO-OUT 28.5 ft (RIGHT ANGLE TO CENTERLINE OF BRIDGE)

WIDTH OF BRIDGE ALONG SKEW ft (IF UNABLE TO MEASURE AT RIGHT ANGLE TO CENTERLINE OF BRIDGE)

NUMBER OF LANES/TRACKS ON BRIDGE 2

BRIDGE CONDITION

DOES POTENTIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY BENEATH? YES ☐ NO ☒ G F P C

DOES POTENTIAL EXIST BECAUSE OF DETERIORATED CONDITION OR FAILURE OF MAJOR MEMBERS? YES ☐ NO ☒

COMMENT ON ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH _____

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) 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

FORM BIR 3.0A
Rev. 3-1-97
DT-1443

CURRENT FIELD REPORT NO. 14 DATE 08/23/99
PREVIOUS FIELD REPORT NO. 13 DATE 09/16/97

INSPECTION REPORT FOR UNDERPASS ROUTE

BRIDGE NO. 94I00650003 UNDERPASS LOC. NO. 63 - 165 - 3.55
ELEVEN DIGIT NO. CO. ROUTE L.M.

94 - 165 - 0.97 OVER 94 - 165 - 3.55
CO. RTE. L.M. CO. RTE. L.M. STRUCTURE NAME

COUNTY WILLIAMSON

YEAR CONSTRUCTED 1961 YEAR WIDENED
ESTIMATED [] ACTUAL [X]

YEAR REHABILITATED

GEOMETRIC FEATURES UNDER BRIDGE

DIVIDED HIGHWAY - - - - LEFT RDWY [] RIGHT RDWY [X] N.A. []
TYPE OF WEARING SURFACE - - - - CONCRETE [] ASPHALT [X] GRAVEL []
WIDTH OF APPROACH TRAVELED ROADWAY 23.8 ft (DOES NOT INCLUDE SHOULDERS)
WIDTH OF MEDIAN IF DIVIDED HIGHWAY 50 ft
APPROACH SHOULDER WIDTH 11 ft (RT.) ft (LT.)
*HORIZONTAL CLEARANCE UNDER BRIDGE 63 ft 2 in.
*DISTANCE BETWEEN PIER PROTECTION GUARDRAIL AND
SUBSTRUCTURE ft (RT.) 17 ft (LT.)
*WIDTH OF SIDEWALK UNDER BRIDGE ft (RT.) ft (LT.)
*MINIMUM VERTICAL CLEARANCE 17 ft 3 in

*SHOW ON SKETCH

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE STANDARD SUB-STANDARD

PIER PROTECTION RAILING	(G) F P C	[X]	[] NON EXIST []
OR PARAPET			
APPROACH GUARDRAIL	(G) F P C	[X]	[] NON EXIST []
TRANSITIONS	(G) F P C	[X]	[] NON EXIST []
APPROACH GUARDRAIL			
APPROACH GUARDRAIL	(G) F P C	[X]	[] NON EXIST []
TERMINAL			

SIGNING FOR UNDERPASS ROUTE

PADDLEBOARD	YES []	NO [X]	NEEDED []
VERTICAL CLEARANCE			
(<u>< 14'-6"</u>)	YES []	NO [X]	NEEDED []
NARROW PASSAGE	YES []	NO [X]	NEEDED []
ONE LANE PASSAGE	YES []	NO [X]	NEEDED []

INSPECTORS

1. Howell
2. Choate
3. Finch
4. Williams
5.
6.

NOTE:

FORM BIR 3.0A (CONTINUED)
Rev. 3-1-97
DT-1443

Date: 8/25/99

UNDERPASS LOC. NO. 94- 165 - 3.55
CO. ROUTE L.M.

OTHER SIGNS OR PLAQUES _____

COMMENTS REGARDING ANY PROBLEM WITH SIGNING _____

BRIDGE FEATURES

BRIDGE SKEW 86 °42'L
STRUCTURE TYPE P P C B B _____ NO. SPANS 4
MAIN SPAN MAIN TYPE
STRUCTURE TYPE N.A. _____ NO. SPANS 0
APPROACH SPAN APPROACH TYPE
MAXIMUM SPAN LENGTH 66 ft TOTAL LENGTH 239'-3" ft
WIDTH OF BRIDGE OUT-TO-OUT 28.5 ft (RIGHT ANGLE TO CENTERLINE OF
BRIDGE)
WIDTH OF BRIDGE ALONG SKEW _____ ft (IF UNABLE TO MEASURE AT RIGHT ANGLE
TO CENTERLINE OF BRIDGE)
NUMBER OF LANES/TRACKS ON BRIDGE 2

BRIDGE CONDITION

G F P C

DOES POTENTIAL EXIST FOR ELEMENTS FROM BRIDGE FALLING ON ROADWAY
BENEATH? YES [] NO [☒]

DOES POTENTIAL EXIST BECAUSE OF DETERIORATED CONDITION OR FAILURE
OF MAJOR MEMBERS? YES [] NO [☒]

COMMENT ON ANY CONDITIONS OF BRIDGE THAT WOULD EFFECT ROADWAY BENEATH _____

NOTE: IF UNDERPASS ROUTE IS DIVIDED HIGHWAY, USE TWO (2) 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
BRIDGE NUMBER 94-1928-0.97
NON-FA ROUTE 1928 OVER I-65

AUGUST 23, 1999

The subject bridge was inspected, on the above date, and found to be in good condition.

This structure is a 4 span precast, prestressed, concrete box beam bridge on a 86°42' skew to the left. All substructure members are cast-in-place concrete. The bridge has a roadway width of 26'-6'' and a total length of 239'-3''.

The approach alignment and embankment are rated good. The approach pavement is good with new asphalt.

The approach guardrailing and bridge railing are good, standard, and new since last inspection. Paddleboard stickers are in place.

The concrete wearing surface is good with a new deck having been poured since last inspection. New parapets have also been constructed. The deck structural consists of box beams with a few light to moderate cracks leaching.

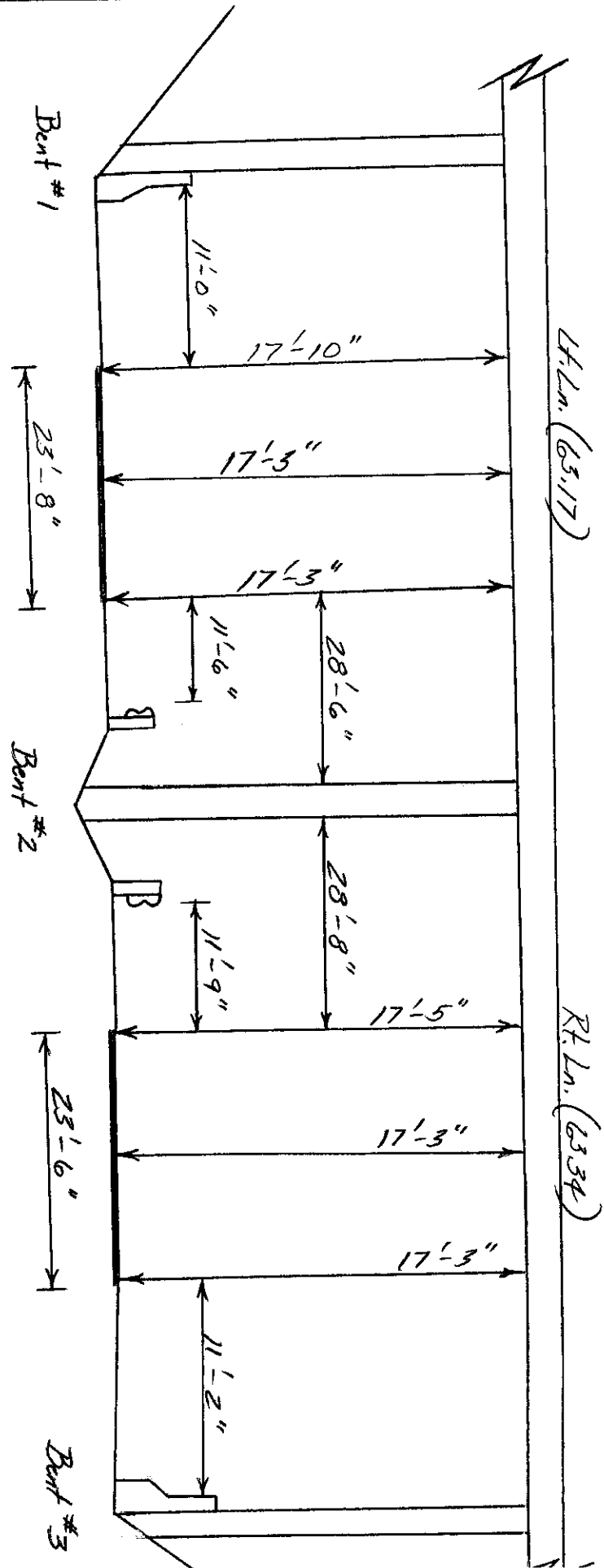
All substructure members are rated good.

No channel items exist, this bridge is over I-65.

Underpass Clearance

DATE: 08/20/03

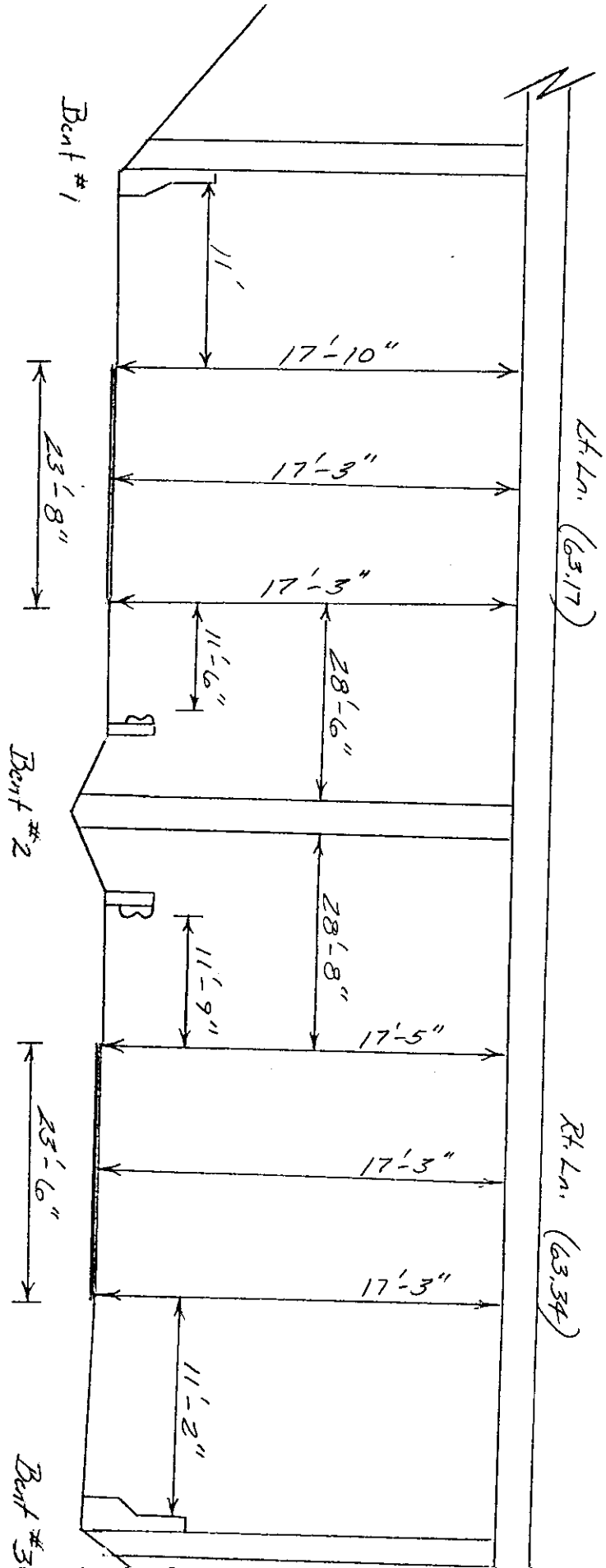
ELEVATION VIEW. RT. SIDE



Br. No. 94-1928-0.97
Underpass Clearance

DATE: 08/16/01

ELEVATION VIEW, RT. SIDE
Looking North

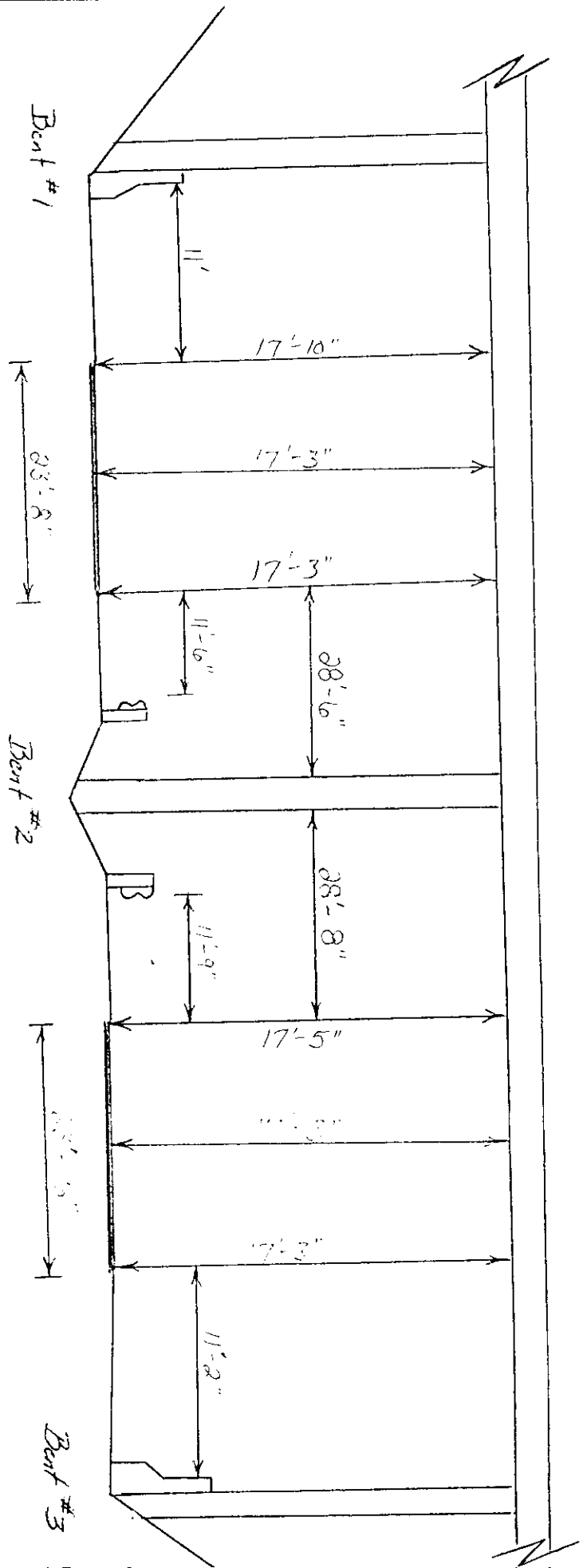


Br. No. 94-1928-0.97

DATE: 08/23/99

Underpass Clearance

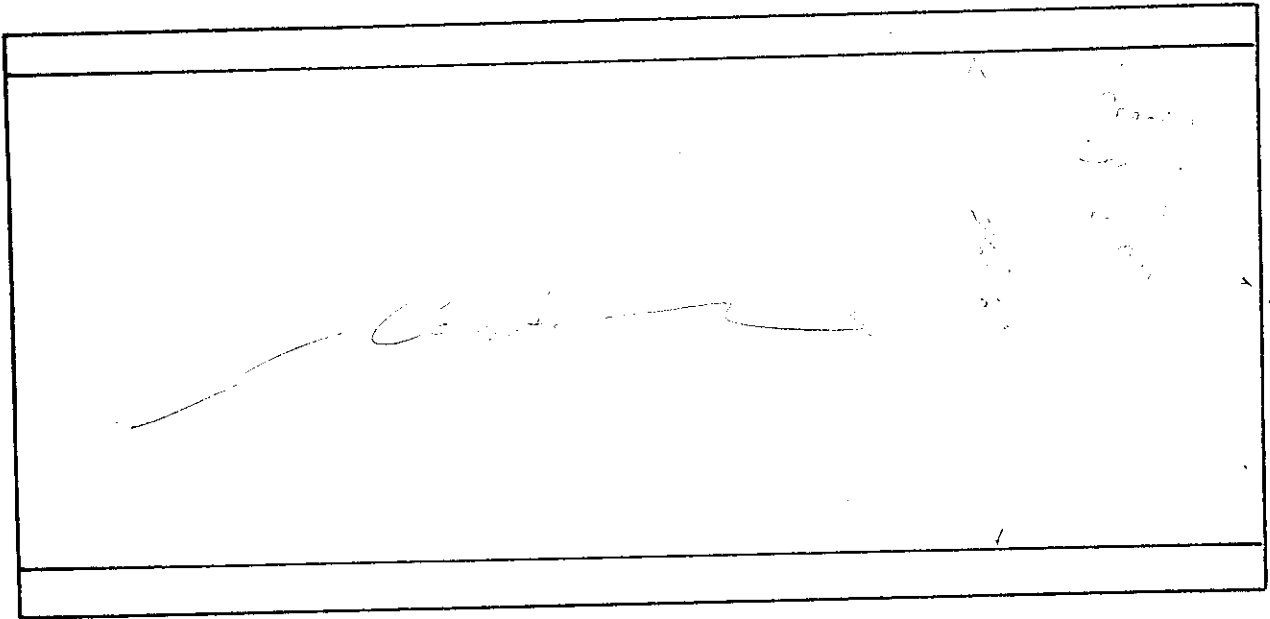
ELEVATION VIEW, RT. SIDE



BR. # 94-1928-0.97 =

TOP SPAN # 1

DATE: 8/23/00



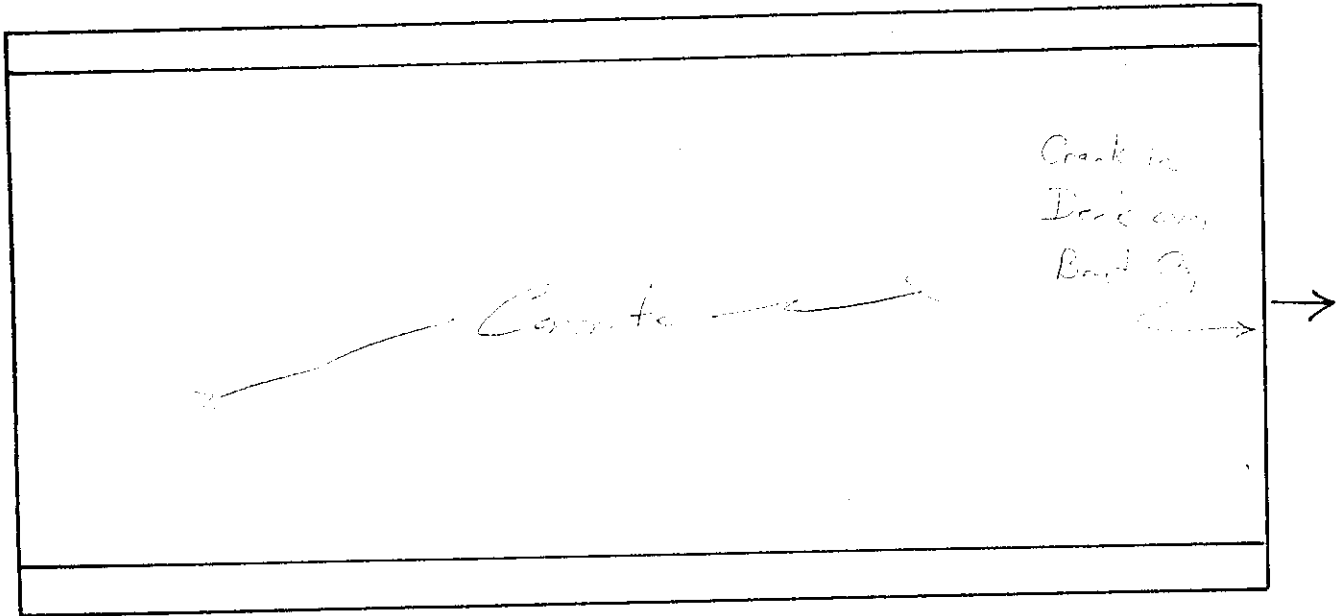
Sketch of the Bridge Deck cross section
dated Apr. 22, 1999. A new bridge deck was
poured and was added to the bridge. The
last inspection date.

DECK	Good	
JOINTS	Good	
HANDRAIL	Good	
CURBS		
DRAINS		

BR # 94-1928-0.97

TOP SPAN # 2

DATE: 8/23/97



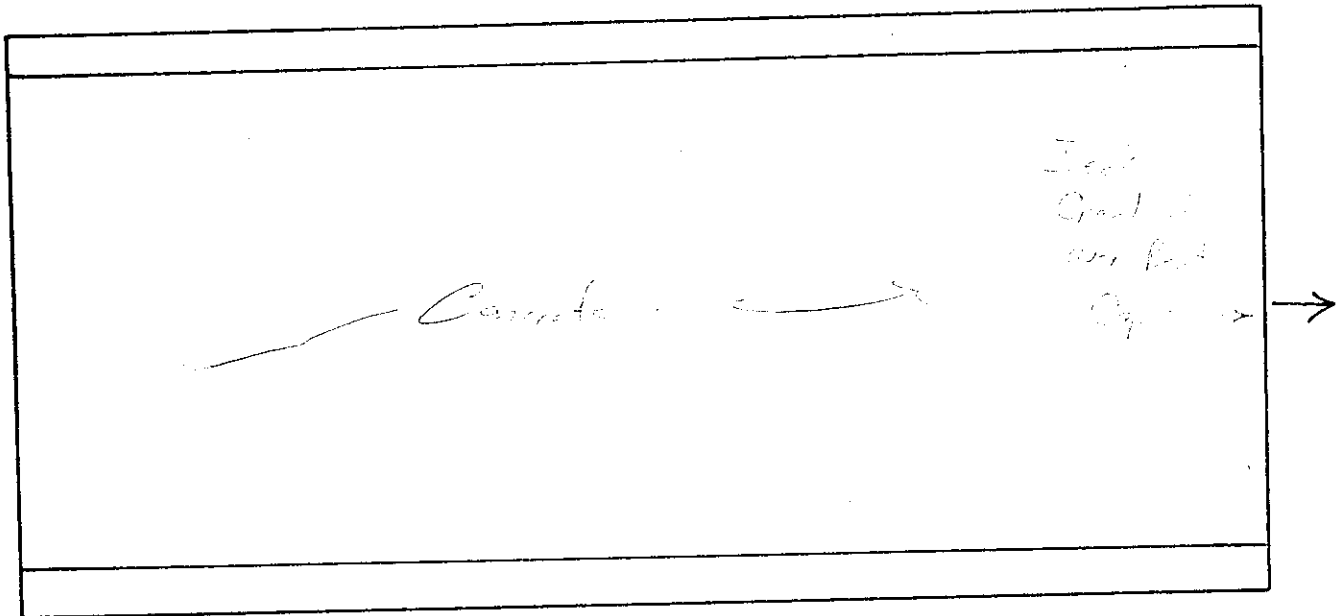
Concrete

DECK	Good	
JOINTS	12/8	
HANDRAIL	Good	
CURBS	Good	
DRAINS	Good	

BR # 94-1925-0.97

TOP SPAN # 3

DATE: 8/20/00



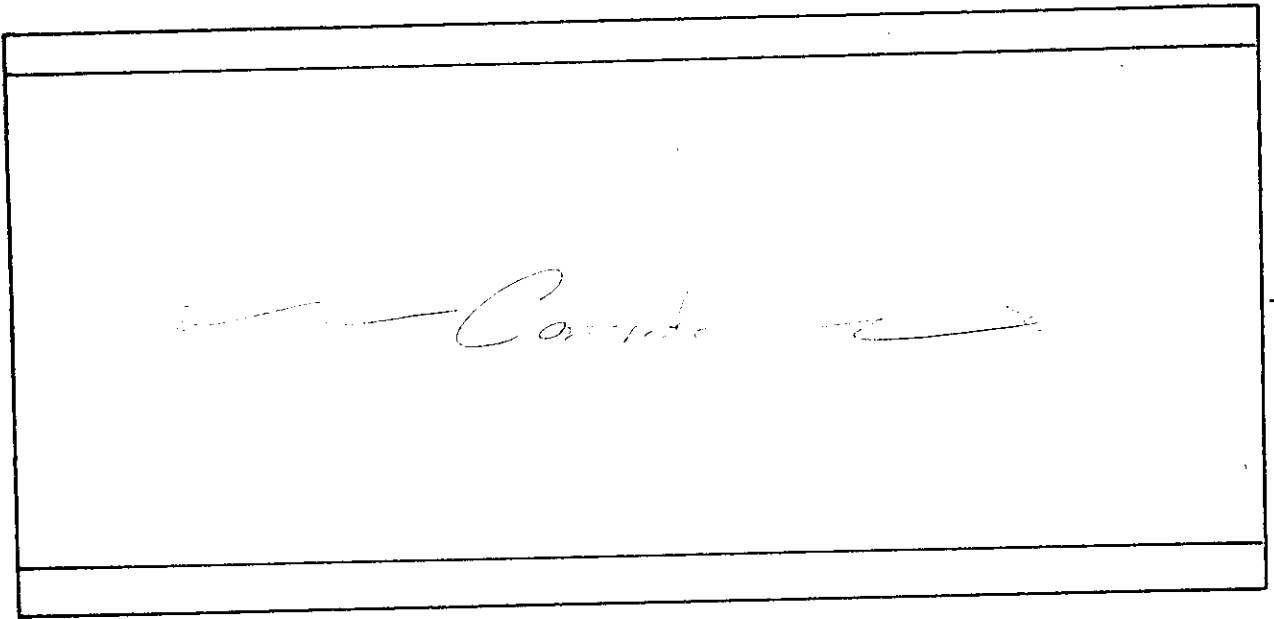
See Camber on Span No. 1

DECK	Feet	
JOINTS	ME	
HANDRAIL	Feet	1.00
CURBS	ME	
DRAINS	Feet	

BR # 94-1928-0.97

TOP SPAN # 4

DATE: 8/23/99



See Comments on Span No. 1

DECK	Good	
JOINTS	N/A	
HANDRAIL	Good	Few loose bolts
CURBS	N/A	
DRAINS	Good	

DATE: 8/23/09

A	
B	
C	
D	
E	
F	
G	
H	
I	

BEAMS		
A	FAIR	100-100
B	Good	
C		
D		
E		
F		
G		
H		
I		

BR. NO. 94-1928-0.97

BOTTOM SPAN NO 2

DATE: 8-2-00

A	
B	
C	
D	
E	
F	
G	
H	
I	

BEAMS		
A		
B		
C		
D		
E		
F		
G		
H		
I		

BR. NO. 94-1928-0.92

BOTTOM SPAN NO 3

DATE: 8-2-00

A	
B	
C	
D	
E	
F	
G	
H	
I	

BEAMS		
A		
B		
C		
D		
E		
F		
G		
H		
I		

BR. NO. 94-1928-0.97

BOTTOM SPAN NO 4

DATE: 8/25/09

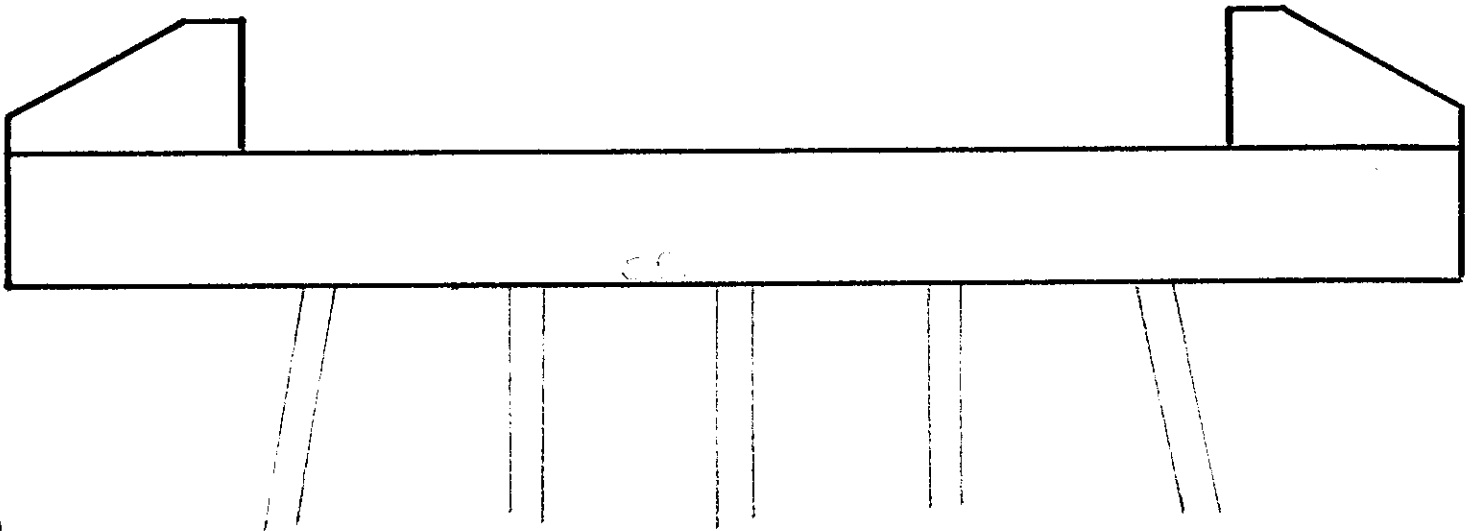
A	
B	
C	
D	
E	
F	
G	
H	
I	

BEAMS		
A		
B		
C		
D		
E		
F		
G		
H		
I		

BR # 94-1928-0.97

ABUTMENT # 1

DATE: 2/22/99



BEARING	SC-100	
CAP		
LT. WING		
RT WING		
PILES	11/1	

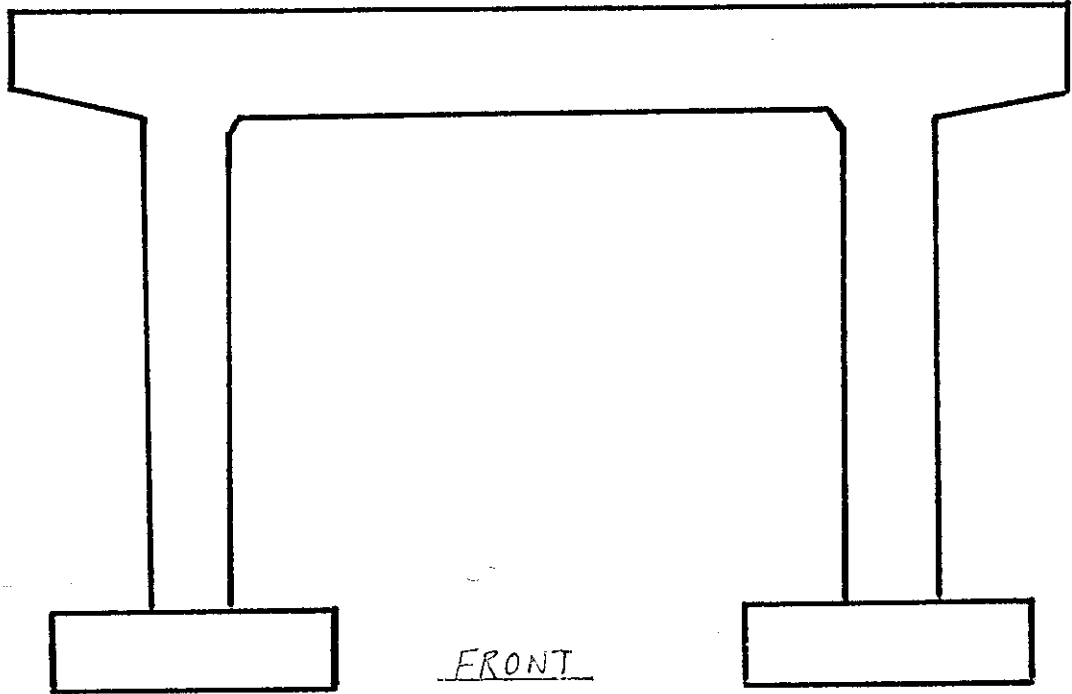
BENT # 1

BR# 94-1928-0.97

DATE: _____

Lt

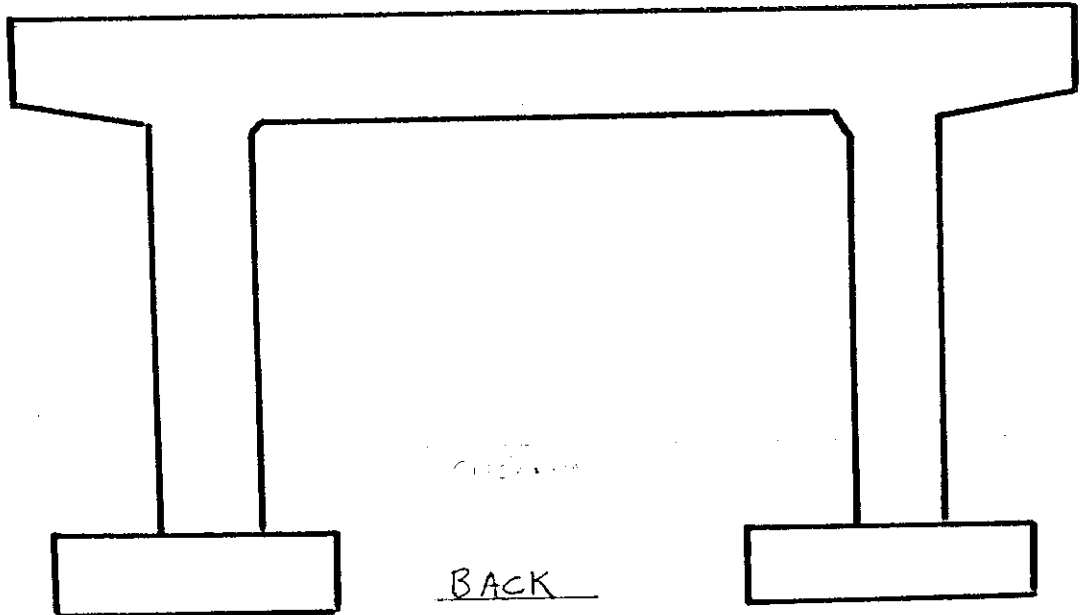
Rt



FRONT

Rt

Lt



BACK

BEARING		
CAP		
COLUMN 'A'		
'B'		
FOOTING		

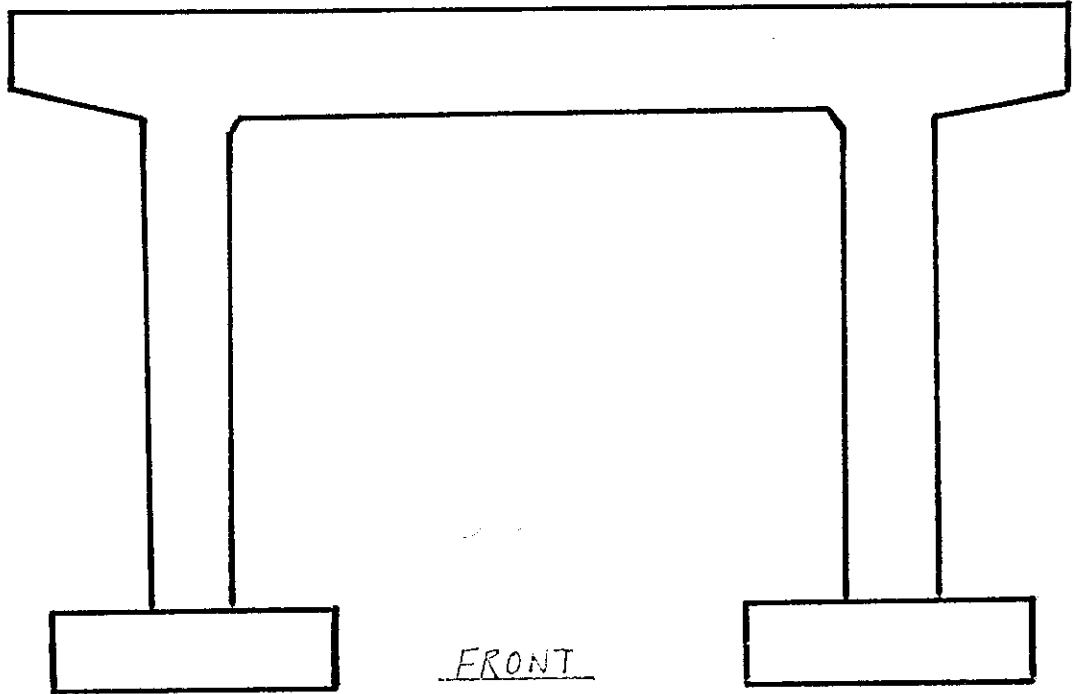
BENT # 2

BR# 94-1928-0.97

DATE: 5-1-77

Lt

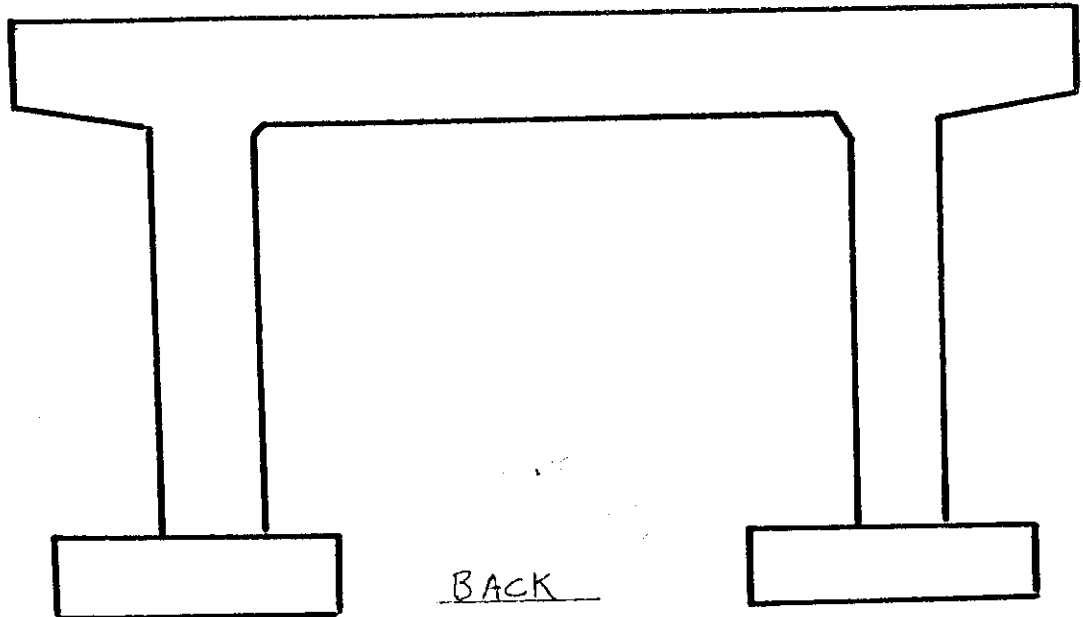
Rt



FRONT

Rt

Lt



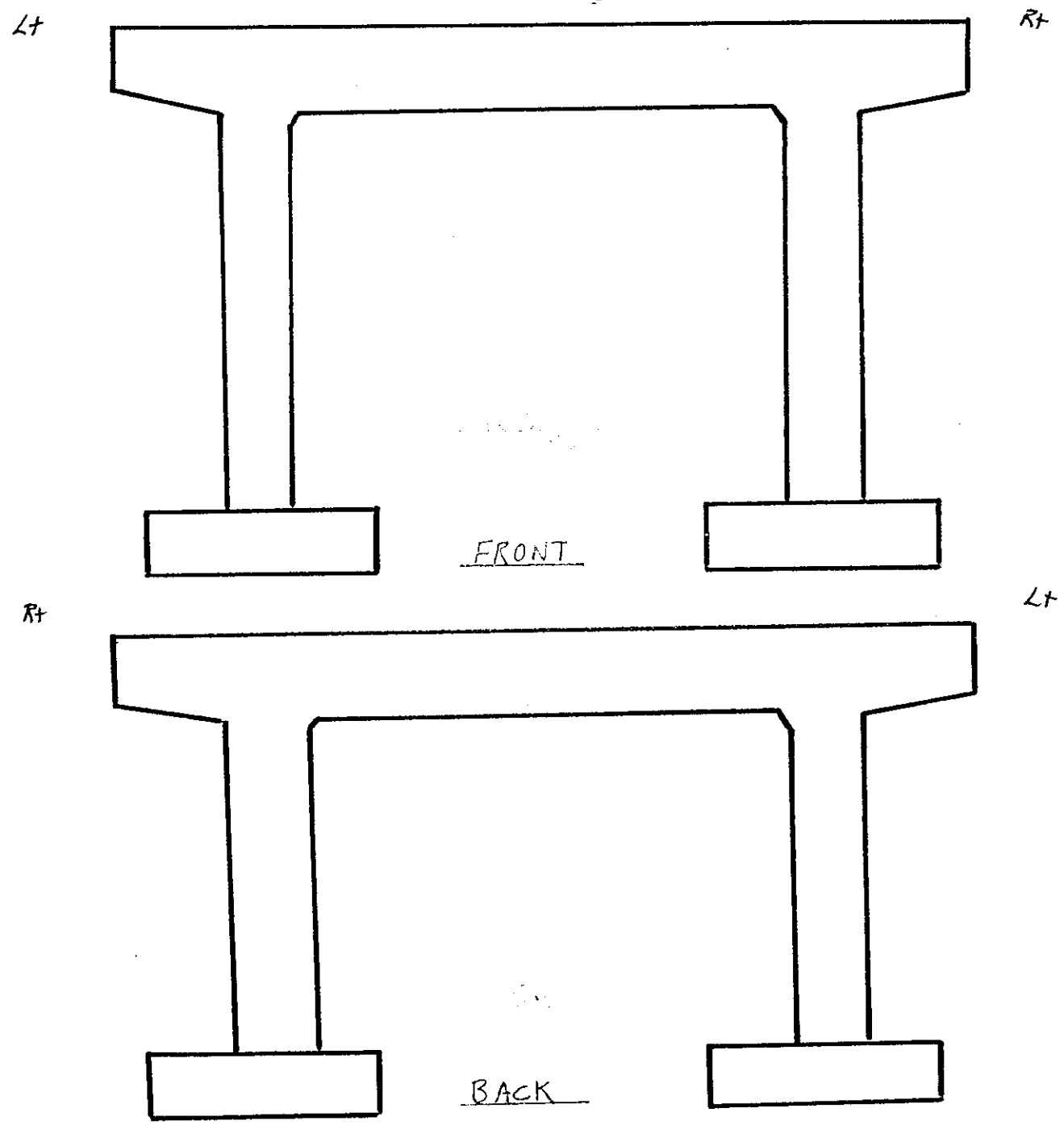
BACK

BEARING		
CAP		
COLUMN 'A'		
'B'		
FOOTING		

BENT # 3

BR# 94-1928-0.97

DATE: 2/10/92

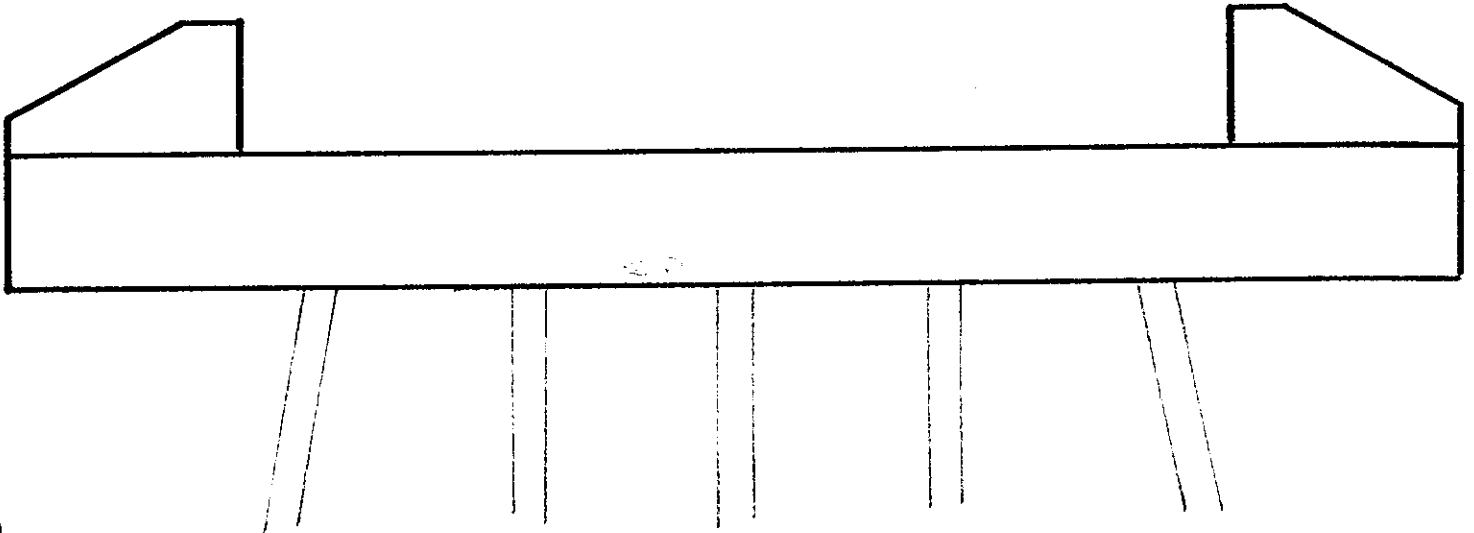


BEARING	Center	
CAP		
COLUMN 'A'		
'B'		
FOOTING	N/V	

BR # 94-1928-0.97

ABUTMENT # 2

DATE: 1/23/99



BEARING	600	
CAP		
LT. WING		
RT WING		
PILES	11/2	

BRIDGE PROJECTS LET TO CONTRACT

(July 24, 1998)

REGION 3

Williamson County (Contract No. 5415) Bridge Nos. 94-SR46-1.41 and 94-1928-0.97

Project No.: S.P. 94945-4278-04

The repair of the bridges on S.R. 46 over the Harpeth River (L.M. 1.41) and on Thompson Station Road over I-65 (L.M. 0.97).

Working days - On or before June 1, 1999
(See Special Provision 108B)

Contractor - General Constructors, Inc. (Gallatin, TN)



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

August 17, 1998

Mr. Paul Sharp
Bridge Inv. & Repair Office
Suite 1200
J. K. Polk Bldg.

RE: Contract Maintenance
July 24, 1998 Letting

Mr. Sharp;

Enclosed are two (2) 1/2 size sets of repair details of in house and/or consultant repair projects for the July 24, 1998 Letting.

<u>COUNTY</u>	<u>BRIDGE NO.</u>	<u>DESCRIPTION</u>	<u>DONE BY & CONTRACT NO.</u>
KNOX	47-SR115-5.29	SR115 / TENNESSEE RIVER & NEYLAND DR. (WORKING DAYS - ON OR BEFORE DECEMBER 22, 1998)	IN HOUSE NO. 5367
McNAIRY	55-SR57-8.25	SR57 / CYPRESS CREEK	
" "	55-SR117-3.50	SR117 / GRAHAM CREEK	
" "	55-SR199-2.68	SR199 / HUGGINS CREEK (WORKING DAYS - ON OR BEFORE NOVEMBER 1, 1998) (NO PLANS - SCOUR)	CONSULTANT NO. 5374
SCOTT	76-SR297-14.26	SR297 / NORFOLK SOUTHERN R.R. (WORKING DAYS - ON OR BEFORE NOVEMBER 2, 1998)	IN HOUSE NO. 5397
SHELBY	79-SR204-7.52	SR204 / LOOSAHATCHIE RIVER (WORKING DAYS - ON OR BEFORE NOVEMBER 15, 1998) (NO PLANS - SCOUR)	CONSULTANT NO. 5402
SMITH	80-I40-10.37	I-40 / HICKMAN CREEK	
" "	80-I40-12.91	I-40 / CANRY FORK RIVER (WORKING DAYS - ON OR BEFORE OCTOBER 31, 1998)	IN HOUSE NO. 5404
TROUSDALE	85-SR10-4.36	SR10 / ROCKY CREEK (WORKING DAYS - ON OR BEFORE DECEMBER 20, 1999)	IN HOUSE NO. 5409

WILLIAMSON 94-SR46-1.41
" " 94-1928-0.97

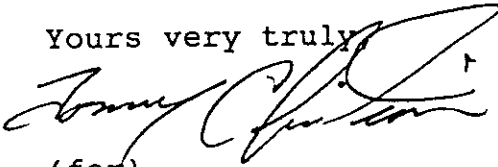
SR46 / HARETH RIVER
1928 (THOMPSON STATION RD.)
/ I-65

CONSULTANT
NO. 5415

(WORKING DAYS - ON OR BEFORE JUNE 1.1999)

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

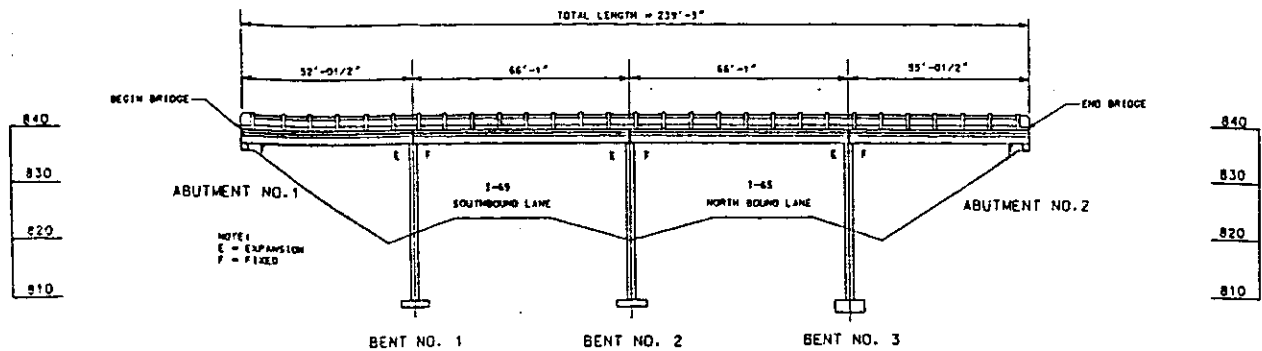
Yours very truly



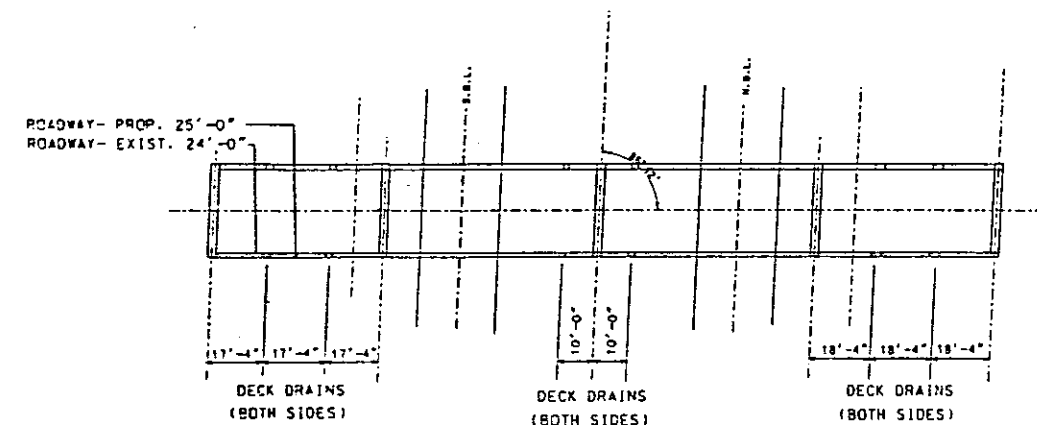
(for)
Hollis Tackitt
Civil Engineering Manager 2
Bridge Inspection and Repair

WJS:hl
Enclosure
cc: file

PROJECT NO.	YEAR	SHEET NO.	
94945-4275-04	1993		
REVISIONS			
NO.	DATE	BY	BREF DESCRIPTION



ELEVATION



PLAN

GENERAL SCOPE OF WORK

1. REMOVE EXISTING 5" ASPHALT SURFACE FOR ENTIRE LENGTH AND WIDTH OF BRIDGE, AND SCARIFY 1/4" FROM TOP OF EXISTING CONCRETE BEAMS. COLD PLANE APPROACHES. SEE DETAILS, SHT. NO. 3.
2. REMOVE EXISTING CONCRETE BRIDGERAIL AND CONCRETE CURB. SEE DETAIL, DWG. NO. BR-35-60.
3. POUR NEW CONCRETE SLAB AND CONCRETE PARAPET WITH BRIDGE DRAINS AND ENDPOSTS. SEE DETAIL, DWG. NO. BR-35-60 & BR-35-64. SEE THIS SHEET FOR BRIDGE DRAIN SPACING.
4. INSTALL NEW GUARDRAIL AT BOTH APPROACHES. SEE DETAIL, SHT. NO. 3.
5. WIDEN AND PAVE APPROACHES. SEE DETAILS, SHT. NO. 3.
6. APPLY TEXTURED FINISH TO NEW CONCRETE. SEE DETAIL DWG. NO. BR-35-64.

DESIGNED BY: C. ROGERS
 DRAWN BY: J. J. JONES
 SUPERVISED BY: J. J. JONES
 CHECKED BY: J. J. JONES

LIST OF BRIDGE DRAWINGS

DWG. NO.	REV. DATE	DESCRIPTION
BR-35-57		LAYOUT OF BRIDGE NO. 94-1928-0.97
BR-35-58		GENERAL NOTES AND ESTIMATED BRIDGE QUANTITIES
BR-35-59		SUPERSTRUCTURE
BR-35-60		SLAB PLAN
BR-35-64		SUPERSTRUCTURE DETAILS
BR-35-65		BILL OF STEEL

LIST OF STANDARD DRAWINGS

DWG. NO.	REV. DATE	DESCRIPTION
STD-1-1	4-28-97	BRIDGE RAILING CONCRETE PARAPET
STD-1-2	9-11-95	STEEL SLIDER PLATE ASSEMBLIES FOR CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS

LIST OF REFERENCE DRAWINGS

(TO BE PRINTED WITH PLANS)

DWG. NO.	DESCRIPTION
K-4-151	LAYOUT OF BRIDGE
K-4-152	SUPERSTRUCTURE DETAIL
K-4-153	ABUTMENTS NO. 1 & 2
K-4-154	BENTS NO. 1, 2 & 3
H-5-110	CONCRETE HANDRAIL

LIST OF SPECIAL PROVISIONS

NO.	REV. DATE	DESCRIPTION
105A	XX	APPROVAL OF SHOP DRAWINGS

XX DENOTES: CURRENT REVISION DATE PER CONTRACT PLANS.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAY

LAYOUT OF BRIDGE

BRIDGE NO. 94-1928-0.97
 ROUTE 1928 OVER I-65
 WILLIAMSON COUNTY
 1998



BR-35-57
 BR-35-57

ESTIMATED BRIDGE QUANTITIES					
ITEM NO.	DESCRIPTION	94-1928-0.97	94-SR46-1.41	UNIT	TOTAL
604-03.09	CLASS "D" CONCRETE (BRIDGE DECK)	111	111	C.Y.	222
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	435	424	S.Y.	859
604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	603	710	S.Y.	1348
604-10.13	CONCRETE SLAB REMOVAL	0.5	0.5	L.S.	1
604-10.14	REMOVE EXISTING WEARING SURFACE	0.5	0.5	L.S.	1
604-10.18	REINFORCING STEEL (REPAIRS)	23,809	22,512	LBS.	46,321
604-10.51	SCARIFYING	745	835	S.Y.	1580
604-10.62	EPOXY INJECTION REPAIR (COMPLETE AND IN PLACE)	-	32	L.F.	32
604-10.90	MISCELLANEOUS BRIDGE ITEMS	-	1	L.S.	1
612-06.01	REPOINTING OF STONE MASONRY JOINTS	-	1,000	L.F.	1,000
620-03	CONCRETE PARAPET (STD-1-1)	479	436	L.F.	915

FOOTNOTES:

- ① ITEM SHALL BE BID AS A CONTINGENCY AND MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.
- ② INCLUDES REMOVAL OF ASPHALT FROM SURFACE OF BRIDGES ONLY. BR. NO. 94-1928-0.97 (5"), BR. NO. 94-SR46-1.41 (4")
- ③ INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR THE REQUIRED EPOXY INJECTION AT LOCATIONS LISTED AND AS DIRECTED BY THE ENGINEER.
- ④ INCLUDES 1/2" MAXIMUM SCARIFIED FROM TOP OF BEAMS. (THIS IS TO REMOVE ASPHALT AND PROVIDE A BOND FOR CONC. OVERLAY)
- ⑤ INCLUDES ALL LABOR AND MATERIALS NECESSARY TO INSTALL THE NEW CONCRETE PARAPET WITH DECK DRAINS. SEE STANDARD DRAWINGS STD-1-1 AND STD-1-2 AND DWG. NOS. BR-35-57, BR-35-60, BR-35-51, BR-35-63 & BR-35-64.
- ⑥ INCLUDES REMOVAL OF EXISTING CONCRETE BRIDGERAIL AND CURB AT BOTH BRIDGE LOCATIONS.
- ⑦ INCLUDES REMOVING DEBRIS FROM PIERS, BR. NO. 94-SR46-1.41.
- ⑧ INCLUDES MECHANICAL THREADED CONNECTORS.

DESIGNED BY C. ROGERS DATE
DRAWN BY C. ROGERS DATE
SUPERVISED BY D. MOSS DATE
CHECKED BY R. ROGERS DATE

GENERAL NOTES

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

DESIGN SPECIFICATIONS: AASHTO 1996 EDITION WITH ADDENDA

REINFORCING STEEL: SEE THE STANDARD SPECIFICATIONS.

SHOP DRAWINGS: SHALL BE SUBMITTED ACCORDING TO SPECIAL PROVISION NO. 105A. SHOP DRAWINGS SHALL BE SUBMITTED TO THE BRIDGE REPAIR OFFICE OF THE DIVISION OF STRUCTURES.

BRIDGE DECK CONCRETE: SHALL BE CLASS "D" CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

BRIDGE DECK SURFACE FINISH: SHALL BE IN ACCORDANCE WITH METHOD (C) IN SUBSECTION 604.23 OF THE STANDARD SPECIFICATIONS.

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

DEMOLITION: THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ANY PARTS OF THE STRUCTURE THAT ARE NOT TO BE REMOVED SPECIFICALLY. THE CONTRACTOR IS NOT ALLOWED TO USE A HYDRAULIC RAM MOUNTED ON A BACKHOE (COMMONLY CALLED A HOE RAM) OR OTHER SIMILARLY HEAVY EQUIPMENT FOR CONCRETE REMOVAL. PNEUMATIC HAMMERS MAY BE USED TO REMOVE UNSOUND CONCRETE. FOR FULL DEPTH OF CONCRETE SLAB REMOVAL EXCEPT OVER BEAMS, THE MAXIMUM HAMMER SIZE IS 90 POUND CLASS. SAWING OR CUTTING ON THE CONCRETE IS ACCEPTABLE SO LONG AS ANY SPECIFIED PROJECTION OF THE EXISTING REINFORCING STEEL IS MAINTAINED. ALL DEVICES PROPOSED FOR CONCRETE DEMOLITION SHALL MEET THE APPROVAL OF THE ENGINEER.

MECHANICAL BAR SPICERS: MUST BE ON THE APPROVED LIST MAINTAINED BY THE DIVISION OF MATERIALS AND TESTS. THE BAR SPICER SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR MECHANICAL CONNECTION. WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED AFTER SPICING ACCORDING TO THE STANDARD SPECIFICATIONS, SECTION 907. THE COST OF FURNISHING THE BAR SPICERS, (AND EPOXY COATING WHEN REQUIRED) AND ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-10.18, LBS.

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.

FORMS AND FALSEWORK: ALL CONCRETE FORM WORK, FALSEWORK, AND TEMPORARY SUPPORTS SHALL BE REMOVED AFTER REPAIRS ARE COMPLETED. COST OF FORMS, FALSEWORK, AND TEMPORARY SUPPORT REMOVAL SHALL BE INCLUDED IN ITEMS BID ON. THIS WORK SHALL BE COMPLETED BEFORE FINAL PAYMENT IS APPROVED.

UTILITY NOTES

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED.

UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS 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 WILL 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.

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.

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) DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

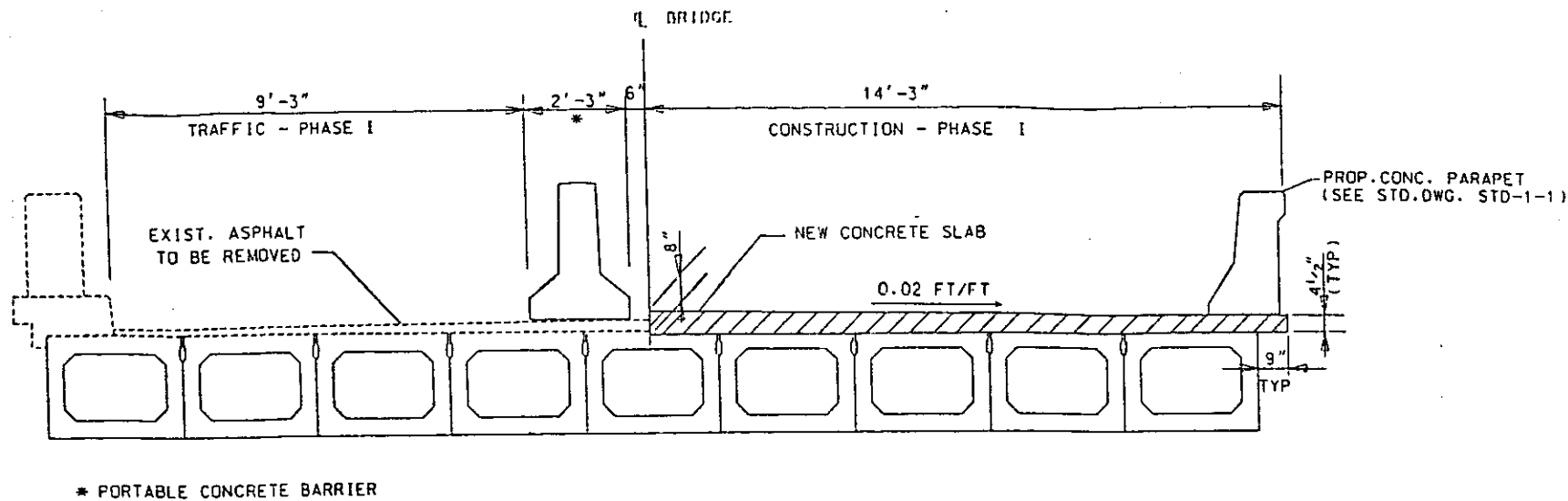
SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM. RIC. AT 1-800-351-1111.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
GENERAL NOTES AND ESTIMATED
BRIDGE QUANTITIES

BRIDGE NO. 94-1928-0.97 ROUTE 1928
OVER I-65
WILLIAMSON COUNTY
1998

BRIDGE NO. 94-SR46-1.41
STATE ROUTE 46
OVER HARPETH RIVER
WILLIAMSON COUNTY
1998

PROJECT NO.		YEAR	SHEET NO.
9-1945-1778-01		1998	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



TYPICAL CROSS SECTION - CONSTRUCTION
PHASE I

NOTES

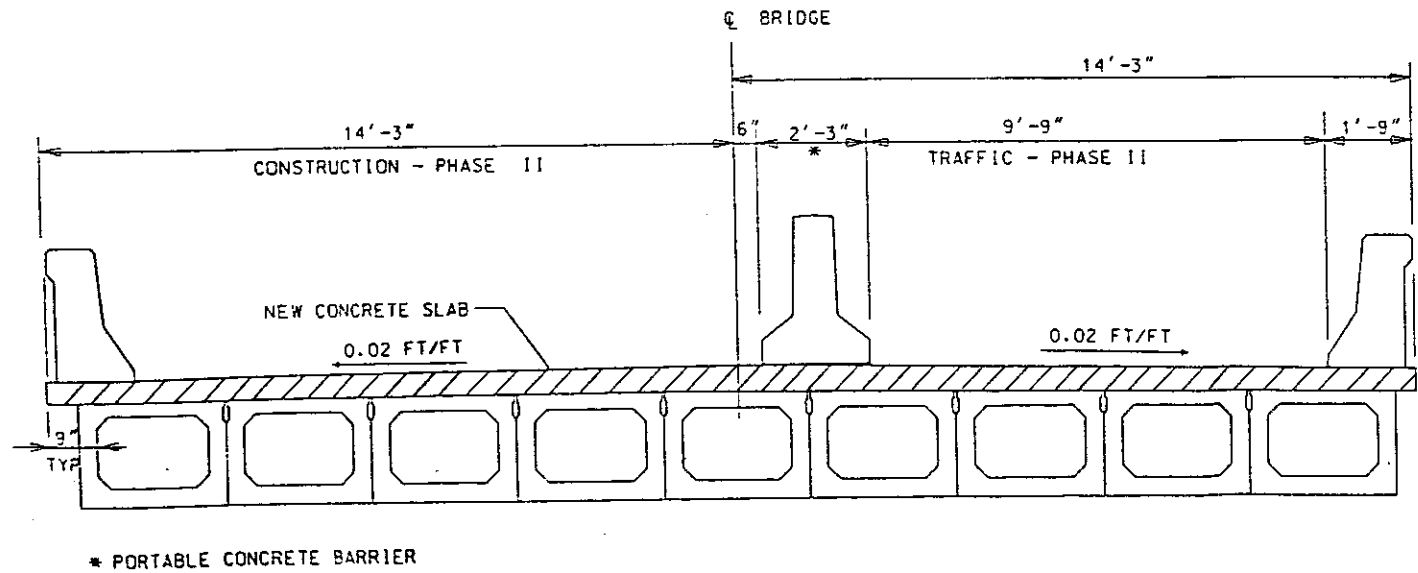
COST OF REMOVING CURBS AND CONCRETE BRIDGERAIL SHALL BE INCLUDED IN ITEM NO. 604-10.13. CONCRETE SLAB REMOVAL, L.S.

SPLICE TRANSVERSE STEEL USING MECHANICAL THREADED CONNECTORS. THE CONNECTORS SHALL BE CAPABLE OF DEVELOPING THE FULL STRENGTH OF THE BAR BEING CONNECTED. COST TO BE INCLUDED IN ITEM NO. 604-10.18. REINF. STEEL (REPAIRS)

COST OF POURING NEW CONCRETE SLAB SHALL BE INCLUDED IN ITEM NO. 604-03.09. COST OF REINFORCING STEEL SHALL BE INCLUDED IN ITEM NO. 604-10.18.

COST OF NEW CONCRETE PARAPET AND BRIDGE DECK DRAINS, INCLUDING ALL LABOR AND MATERIALS SHALL BE INCLUDED IN ITEM NO. 620-03.

COST OF SCARIFYING 1/4" FROM EXISTING TOP OF CONCRETE BEAMS AFTER REMOVAL OF ASPHALT TO BE INCLUDED IN ITEM NO. 604-10.51. SCARIFYING, SQ. YD.



TYPICAL CROSS SECTION - CONSTRUCTION
PHASE II

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

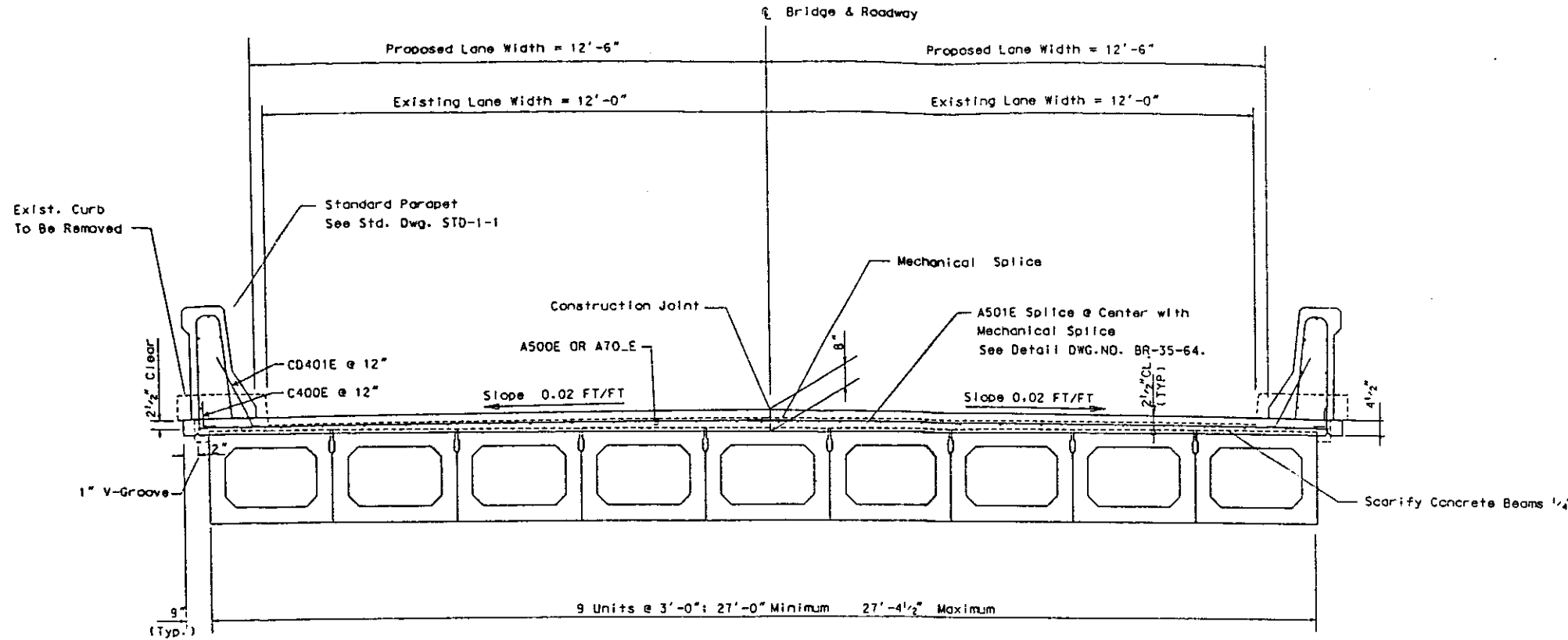
SUPERSTRUCTURE

BRIDGE NO. 94-1928-0.97
ROUTE 1928
OVER I-65
WILLIAMSON COUNTY
1998

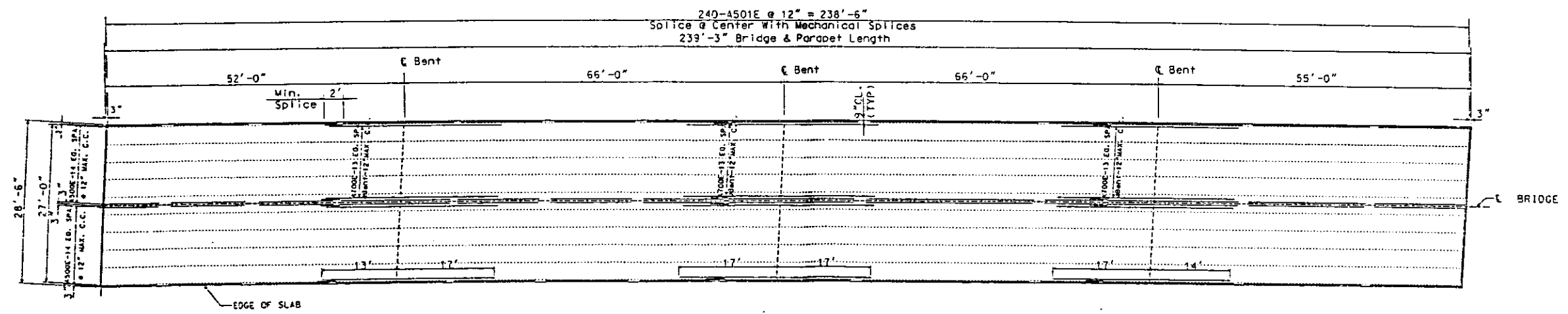


DESIGNED BY: C. ROGERS
DRAWN BY: C. ROGERS
SUPERVISED BY: D. HESS
CHECKED BY: R. J. JONES

DATE
DATE
DATE
DATE



SLAB - SECTION



SLAB - PLAN

PROJECT NO.	YEAR	SHEET NO.	
94945-4278-04	1998		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SLAB PLAN
BRIDGE NO. 94-1928-0.97
ROUTE 1928
OVER I-65
WILLIAMSON COUNTY
1998

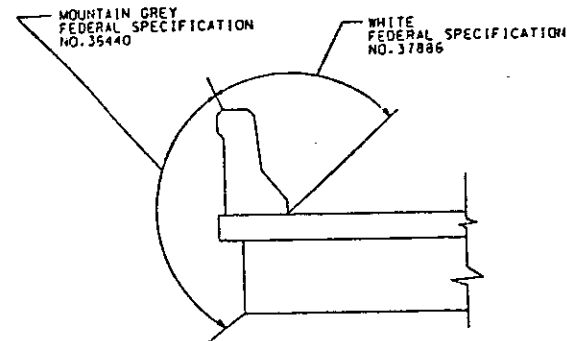


BR-35-60

DESIGNED BY: J. MOSS DATE: _____
DRAWN BY: J. MOSS DATE: _____
SUPERVISED BY: J. MOSS DATE: _____

PROJECT NO.	YEAR	SHEET NO.
94945-4278-04	1998	

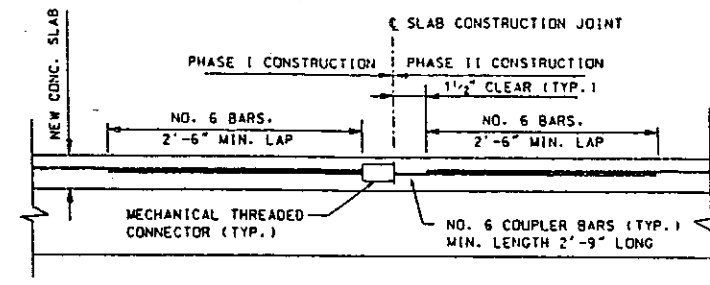
REVISIONS			
NO	DATE	BY	REVISION DESCRIPTION



APPLIED TEXTURE FINISH DETAIL

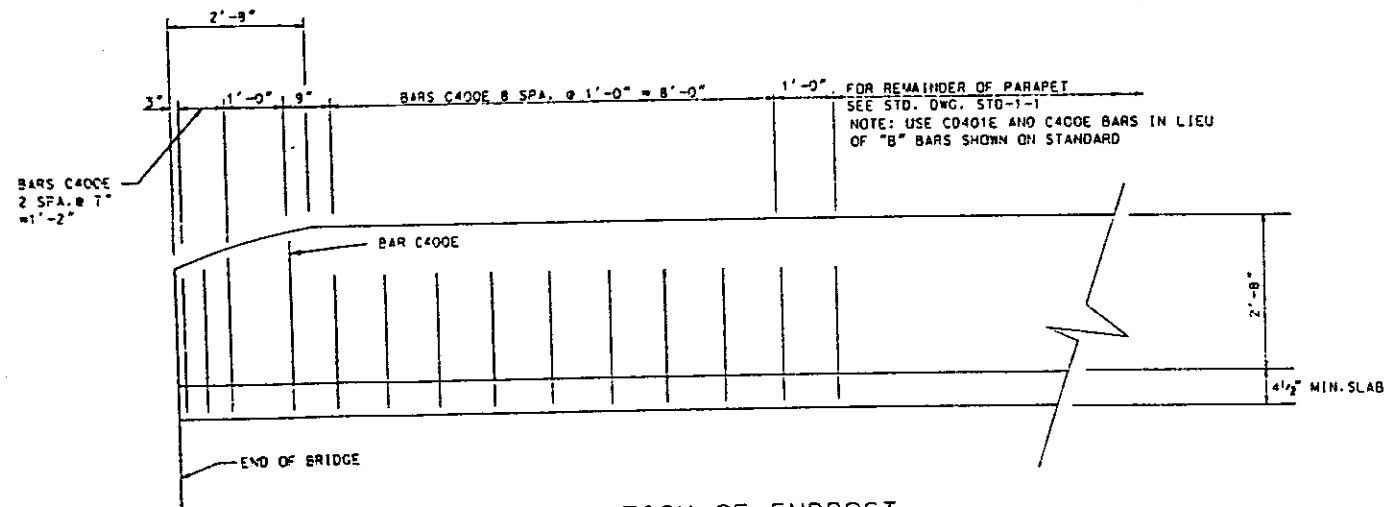
NOTE: COST OF TEXTURE COATING SHALL BE INCLUDED IN ITEM NO. 604-04.01, AND INCLUDES ENDOPOSTS AS SHOWN ON STANDARD DRAWING NO. STD-1-1.

NOTE: THE CONTRACTOR SHALL USE CONTAINMENT SCREENS OR OTHER MEASURES AS NECESSARY TO PREVENT ANY TEXTURE COATING FROM ENTERING THE ENVIRONMENT. CONTAINMENT MEASURES SHALL BE APPROVED BY THE ENGINEER AND COST SHALL BE INCLUDED IN ITEMS BID ON.



TYPICAL DETAIL AT CONSTRUCTION JOINT

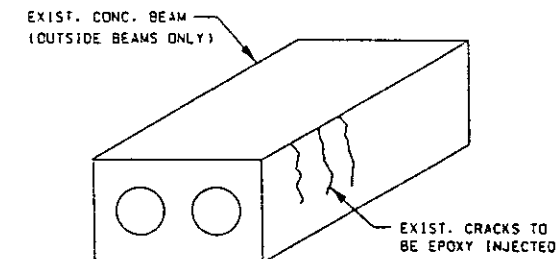
NOTE: THE COST OF MECHANICAL THREADED CONNECTORS AND THE COST OF THREADING THE COUPLER BARS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LBS.



ELEVATION OF ENDOPOST

NOTE: ENDOPOST SHALL BE BUILT INTERGAL WITH SLAB AND TYPICAL AT ALL 4 CORNERS.

NOTE: FOR DETAILS AND BARS NOT SHOWN SEE STD DWG. NO. STD-1-1.



GENERAL NOTES AND SPECIFICATIONS FOR EPOXY INJECTION OF EXISTING STRUCTURAL CRACKS

(BR. NO. 94-SR46-1.41)

(SEE TABLE FOR LOCATIONS)

NOTE: ALL CRACKS SMALLER THAN 1/4" SHALL BE INJECTED WITH AN APPROVED EPOXY RESIN ADHESIVE. ALL CRACKS 1/4" OR LARGER SHALL BE INJECTED WITH AN APPROVED EPOXY RESIN OF THE GEL TYPE.

EXTREME CAUTION SHALL BE TAKEN WHEN SELECTING A PRESSURE NECESSARY TO COMPLETE THE EPOXY INJECTION CRACK REPAIR SO AS NOT TO DAMAGE THE STRUCTURE BY CAUSING ADDITIONAL CRACKING. IF ADDITIONAL DAMAGE OCCURS, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR REPAIR OF DAMAGED AREAS. ALL EPOXY INJECTION WORK SHALL MEET WITH THE FULL APPROVAL OF THE ENGINEER.

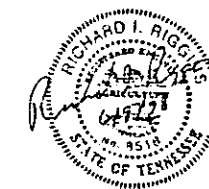
NOTE: ALL EPOXY INJECTION CONTRACTORS AND/OR SUBCONTRACTORS SHALL BE APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TEST.

AFTER EPOXY INJECTION IS COMPLETE, ALL INJECTION PORTS SHALL BE REMOVED AND ALL EXCESS SEALING MATERIAL AND EPOXY SHALL BE REMOVED FLUSH WITH THE SURROUNDING CONCRETE SURFACES.

NOTE: COST OF ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE EPOXY INJECTION REPAIRS TO EXISTING CONCRETE CRACKS SHALL BE INCLUDED UNDER ITEM NO. 604-10.62, EPOXY INJECTION REPAIRS, (COMPLETE AND IN PLACE) L.F.

ESTIMATED QUANTITIES	
LOCATION OF REPAIR	EPOXY INJECTION 604-10.62 L.F.
SPAN 3 - PIER 2	4
SPAN 4 - PIER 2	4
SPAN 4 - PIER 3	4
SPAN 5 - PIER 3	4
SPAN 3 - PIER 2	4
SPAN 4 - PIER 2	4
SPAN 4 - PIER 3	4
SPAN 5 - PIER 3	4
TOTAL	32

NOTE: QUANTITIES ARE APPROXIMATE. ACTUAL LENGTHS TO BE DETERMINED BY THE ENGINEER.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SUPERSTRUCTURE DETAILS

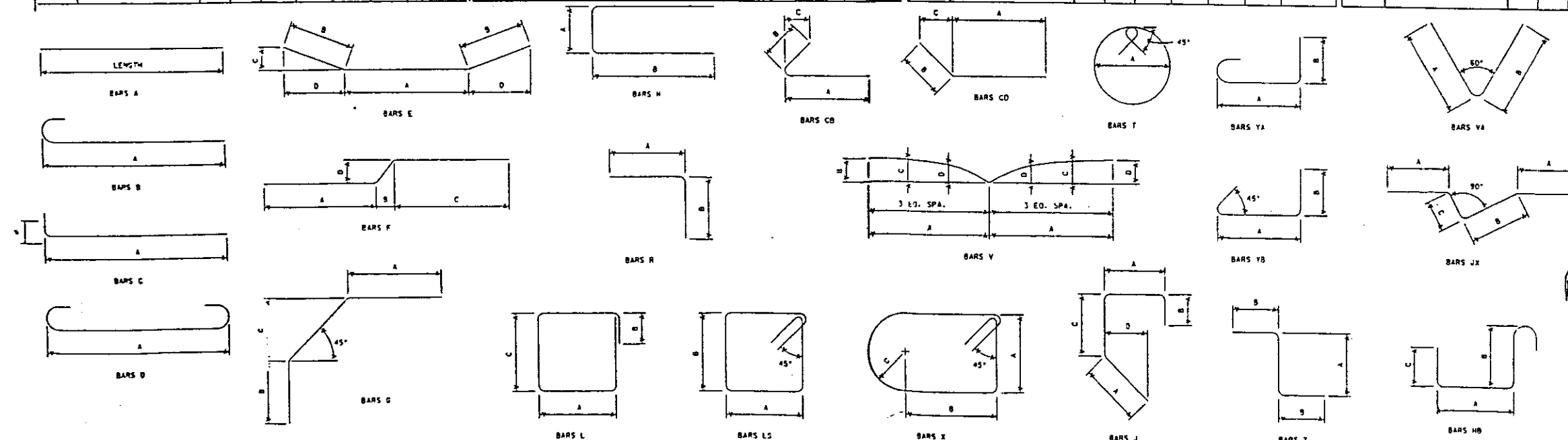
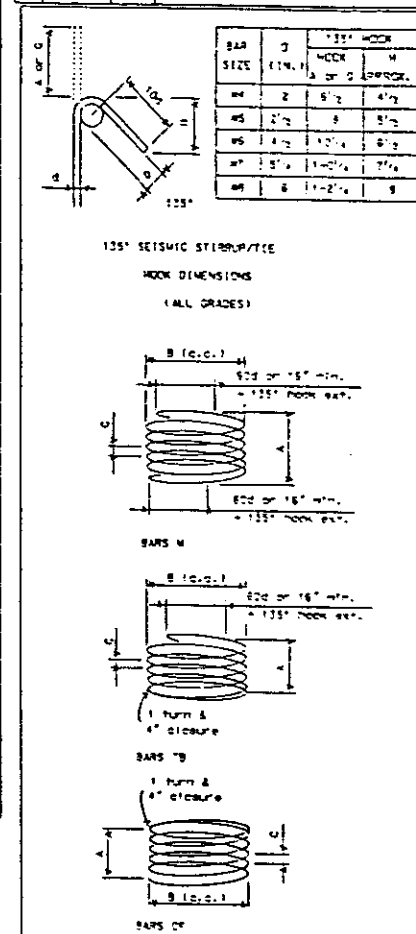
BRIDGE NO. 94-1928-0.37
ROUTE 1928
OVER I-65
WILLIAMSON COUNTY
1998

BRIDGE NO. 94-SR46-1.41
STATE ROUTE 46
OVER HARPETH RIVER
WILLIAMSON CO.
1998

DESIGNED BY: C. ROGERS
DRAWN BY: C. ROGERS
SUPERVISED BY: D. WISS
CHECKED BY: P. RIGGS
DATE: _____
DATE: _____
DATE: _____
DATE: _____

BR-35-64

BILL OF STEEL

[illegible][illegible]

REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	5	06

NOTE: Dimensions shown on this sheet are outside to outside of bar. Standard C.R.S.I. Hook Details will apply, except as noted.

NOTE: The splices E for bars so marked denotes lap spliced reinforcement.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

BILL OF STEEL

BRIDGE NO. 94-1928-0.97	BRIDGE NO. 94-SR46-1.41
ROUTE 1928	STATE ROUTE 46
OVER I-65	OVER HARPETH RIVER
WILLIAMSON COUNTY	WILLIAMSON COUNTY
1999	BR-3545

DESIGNED BY	D. MOSS	DATE	
DRAWN BY	C. ROGERS	DATE	3/11/98
SUPERVISED BY	D. MOSS	DATE	
CHECKED BY	R. RIGGINS	DATE	3/24/98

BR-35-65



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

December 31, 1997

Mr. Richard Riggins
Neel-Schaffer, Inc.
P.O. Box 150329
Nashville, TN 37215

Re: Contract E0378
Bridge Repair Design
Bridge No.(s) (see attached sheet)

Dear Mr. Riggins:

We are assigning the bridge(s) listed on the attached sheet to your firm to provide the structural design and detailing services for contract bridge repairs.

Please provide us with your engineering estimate and estimated completion time for the bridge(s) listed so that we may proceed with the work order for this assignment. Please note that the plans will be in English units.

A copy of the inspection report for each bridge is enclosed.

If you have any questions, please contact us.

Sincerely,

Hollis I. Tackitt
Civil Engineering Manager II
Bridge Inspection and Repair

HIT:teq

enclosure

xc: Mr. Paul Sharp
Mr. Edward Wasserman
Mr. Gerald Gregory
File

1-2-98

ANDY,
NOTE UPCOMING PROPOSED
PROJECTS IN THEIR
REPORTS

Paul

Structural Repair

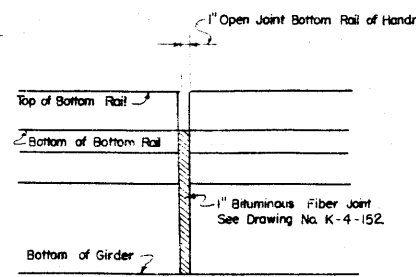
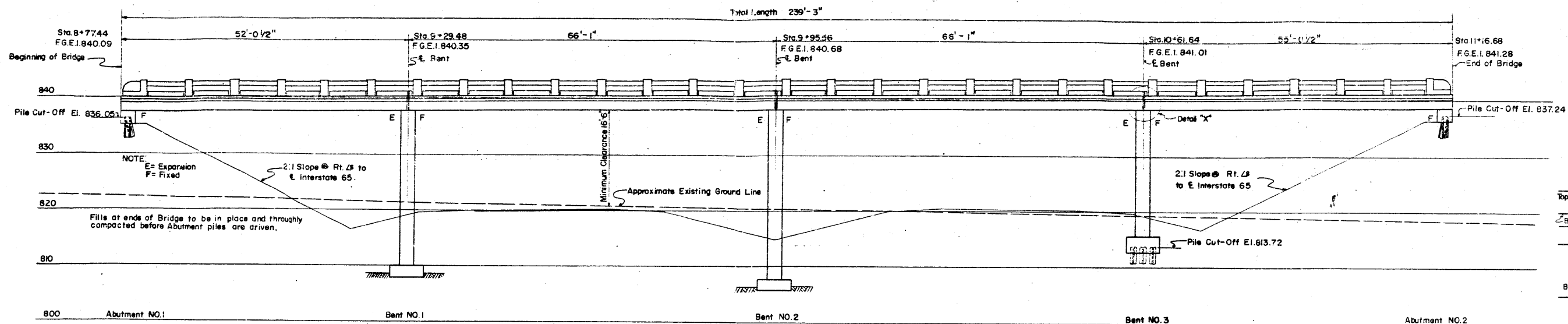
COUNTY

BRIDGE IDENTIFICATION

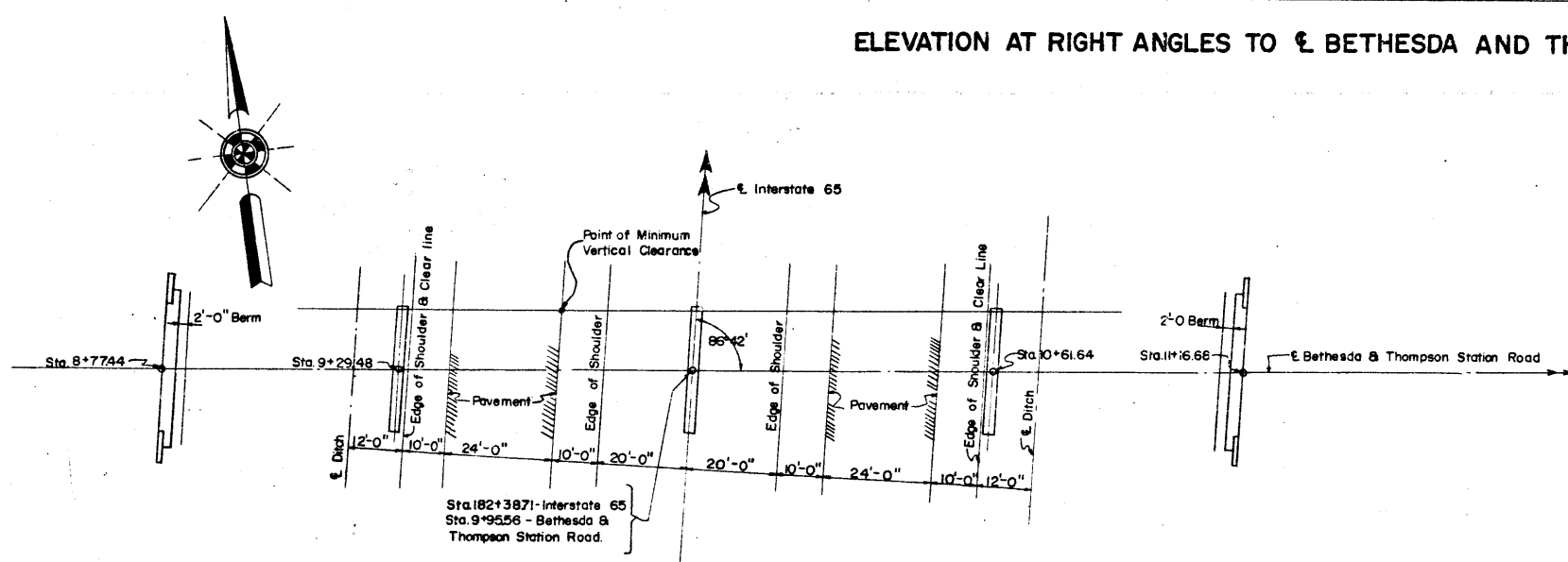
Williamson

94-SR46-1.41 / Harpeth River
94-1928-0.97 / I-65

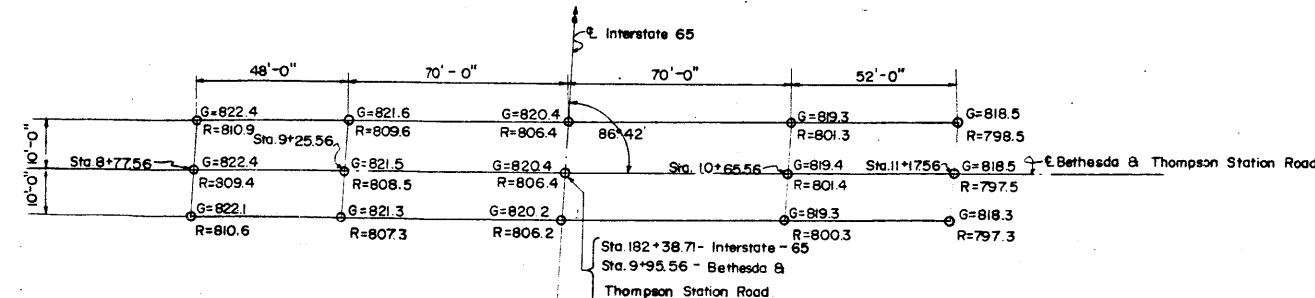
I-65-2(8)52



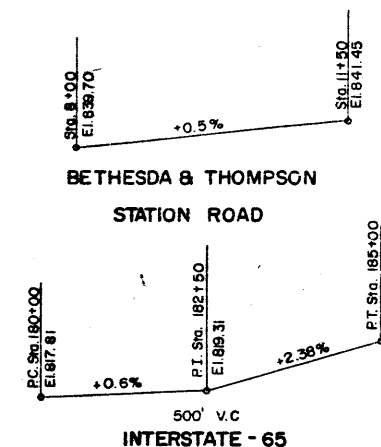
ELEVATION AT RIGHT ANGLES TO E BETHESDA AND THOMPSON STATION ROAD



PLAN



SOUNDING SKETCH



SKETCH SHOWING GRADES

NOTE: Elevations shown are based on Finished Grade.

GENERAL NOTES

SPECIFICATIONS: Standard Road & Bridge Specifications of the Tennessee Department of Highways and Public Works.

LOADING: H15-44. CONCRETE: To be Class "A". REINFORCING STEEL: To be intermediate or hard grade. See Specifications, Standard Hook details as recommended by CRSI shall apply.

PILES: To be 10" BP#42 for Abutments and 12" BP#53 for Bent NO. 3. PRECAST PRESTRESSED CONCRETE BOX UNITS: See Special Provision. JOINT FILLER: See Special Provisions. MASONRY PAD: See Special Provisions.

SPECIAL FOUNDATION NOTE

When foundations for Bents No. 1 & 2 have been uncovered, holes 6 ft deep shall be drilled into rock at points designated by the Engineer. Foundations for Bent No. 3 shall be excavated to the Pile Cut-off elevation shown; rod soundings shall then be made as directed by the Engineer. From the results obtained the Bridge Engineer will decide if Piles are to be used or the footing carried to rock. Piles shall be driven to rock or minimum bearing of 36 tons for Abutments and 45 tons for Bents. No reinforcing steel for Columns shall be ordered until final footing elevations are established. Cost of sounding shall be included in the cost of items bid on.

HANDRAIL NOTE

Build Handrail according to Standard Drawing H-5-110. Make X=2", Q=238'-11" And 28 Spaces L @ 6'-9 1/4".

LIST OF DRAWING

DWG. NO.

HANDRAIL-See note this sheet	H-5-110
SUPERSTRUCTURE	K-4-152
ABUTMENTS NO. 1 & 2	K-4-153
BENTS NO. 1, 2 & 3	K-4-154
BILL OF STEEL	K-4-155
PILE SPLICE DETAIL	G-10-42

UP-94-65-56.51 3.55
ESTIMATED 1975 A.D.T. = 411

ALTERNATE "P"
24'-0" ROADWAY WITH 1'-0" CURBS

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
NASHVILLE
LAYOUT OF BRIDGE
BETHESDA AND THOMPSON STATION ROAD
OVER INTERSTATE 65
STATION 182+387.1
WILLIAMSON COUNTY
1960

ESTIMATED QUANTITIES

ITEM	Excavation-C.Y.		Concrete Class "A" Cu. Yds.	Reinforcing Steel Lbs.	Precast Conc. Box Units 27" Depth 10 BP#42 12 BP#53			Concrete Seal Piles Lin. Ft.	Concrete Handrail Lin. Ft.	Rock Drilling Lin. Ft.
	Dry	Rock			52'-0"	66'-0"	55'-0"			
Superstructure			33.5	1664	9	18	9			
Abutment NO. 1			9.5	1246						
Abutment NO. 2			9.5	1246						
Bent NO. 1	94	4	26.1	8342						
Bent NO. 2	78	4	27.3	8686						
Bent NO. 3	60		25.9	7343						
Total	232	8	131.8	26527	9	18	9	300	120	4785

NOTE: Cost of all joint material to be included in the unit price bid for Class "A" Concrete.
NOTE: Bituminous Surfacing will be placed under future Contract.

DESIGNED BY: C.F. Couch
DRAWN BY: J.W. Southerland
TRACED BY: A. Kelley & E. Moore
CHECKED BY: D.E. Strong & R.B. Omkhandra
DATE: 12-21-60
DATE: 1-3-61
DATE: 12-22-60

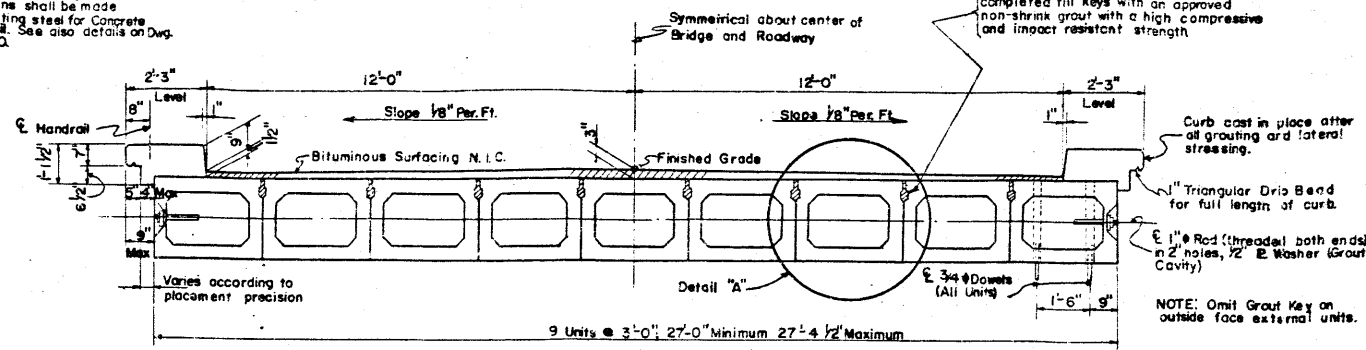
CORRECT: Fred Gene
APPROVED: [Signature]
K-4-151

24-1978-0.97

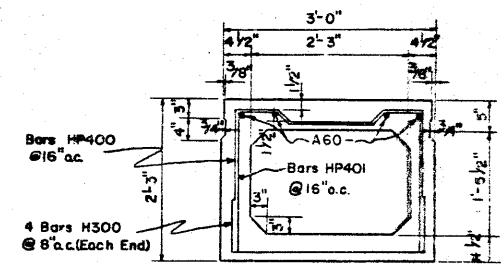
NOTE: When pouring curbs provisions shall be made for setting steel for Concrete Handrail. See also details on Dwg. H-5-110.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		19	46	201

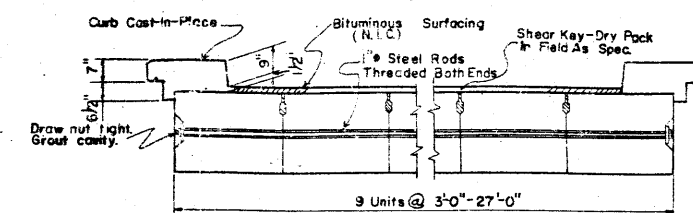
I-65-26352



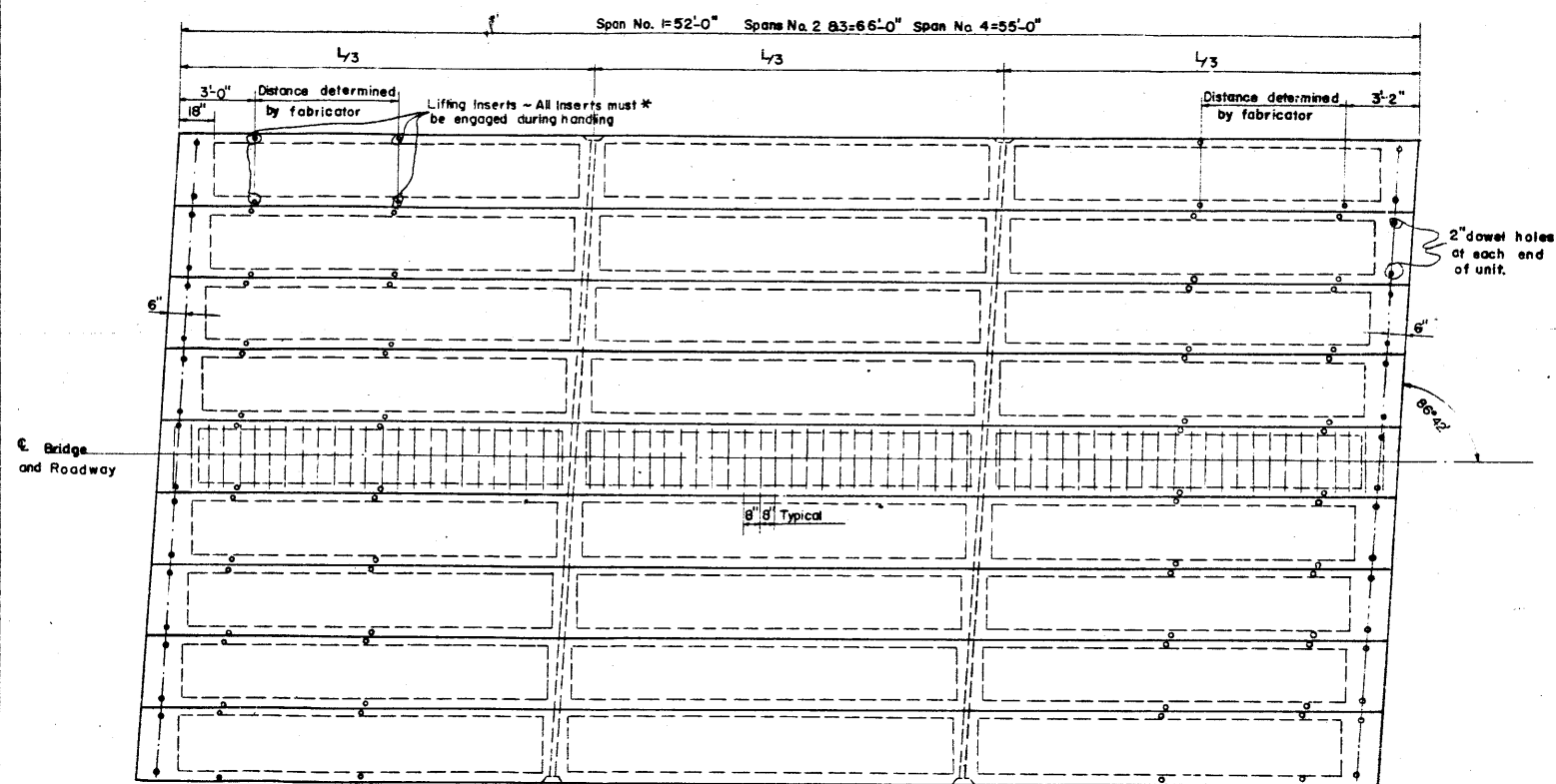
HALF SECTION NEAR MIDSPAN HALF SECTION NEAR BEARING



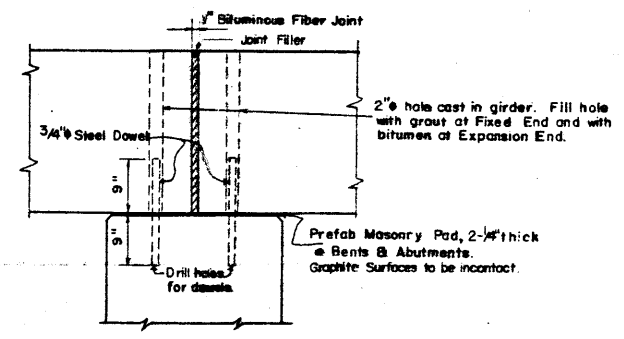
DETAIL A



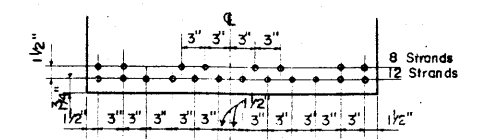
SECTION AT TRANSVERSE TIE



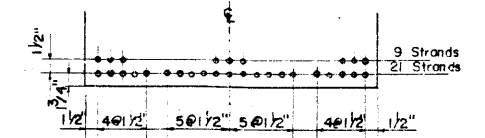
PART PLAN OF GIRDERS



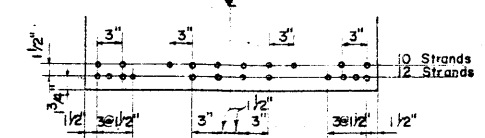
ELEVATION AT BENT



SPAN NO. 1

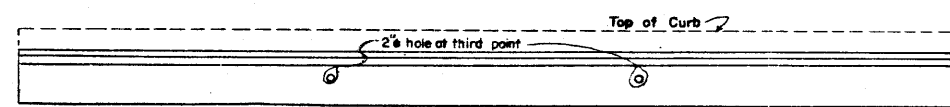


SPANS NO. 2 & 3



SPAN NO. 4

STRAND PATTERNS



ELEVATION OF GIRDERS

BILL OF STEEL FOR EACH BOX BEAM

Bar	#300	HP400	HP401	Z400	A600	A601	A602
Size	3	4	4	4	6	6	6
Length	4'-2"	5'-4"	6'-10"	2'-2"	5'-6"	33'-3"	54'-6"
Exterior Box Beam Span No. 1	8	39	39	39	4	—	—
Interior Box Beam Span No. 1	9	39	39	—	4	—	—
Exterior Box Beams Span No. 2 & 3	9	50	50	50	—	8	—
Interior Box Beams Span No. 2 & 3	8	50	50	—	—	8	—
Exterior Box Beam Span No. 4	8	41	41	41	—	—	4
Interior Box Beam Span No. 4	8	41	41	—	—	—	4

LATERAL TENSIONING: Prior to grouting longitudinal keys of in-place deck unit, the nuts of the Transverse Rods shall be given two full turns from hand tight position to develop a stress of 30,000 P.S.I. in rods. PRETENSIONING STEEL: A force of 14,000 lbs. shall be applied to each strand in all beams. ALL STRANDS SHALL BE 7/8"-7 WIRE.

ALTERNATE "P"

STATE OF TENNESSEE DEPARTMENT OF HIGHWAYS

SUPERSTRUCTURE DETAIL BETHESDA AND THOMPSON STATION ROAD OVER INTERSTATE 65 STATION 182+38.71 WILLIAMSON COUNTY 1960

ESTIMATED QUANTITIES FOR CURBS

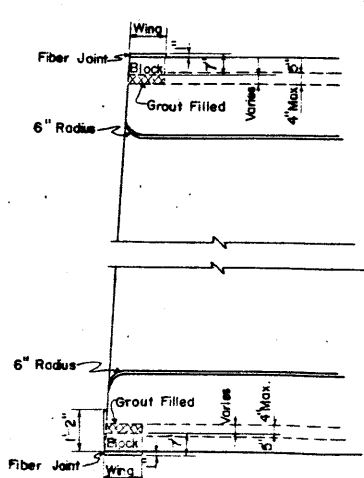
Concrete Class 2 33.53 Cubic Yards Reinforcing Steel 1,559.5 Lbs.

ESTIMATED QUANTITIES FOR BOX BEAMS

Concrete Class 3070 Cubic Yards Reinforcing Steel 27,204 Lbs. Prestressing Steel 15,314 Lbs.

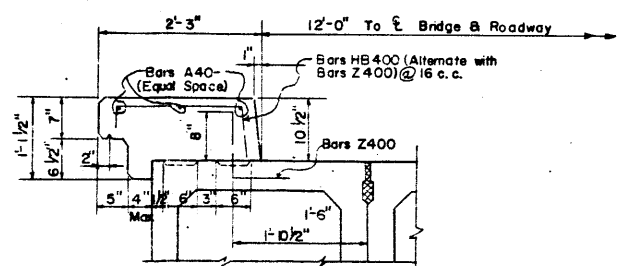
CORRECT: [Signature]

APPROVED: [Signature]



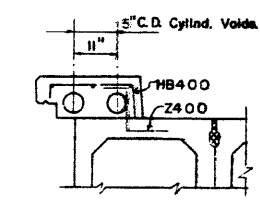
CURB DETAILS-ABUTMENT END

SKETCH SHOWING CURB DETAILS AT ABUTMENT END



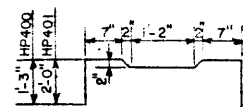
TYPICAL SECTION FOR CURB AND EXTERIOR BOX

NOTE: Curb to be cast-in-place. Provisions may be made in face of exterior units for approved insert to facilitate forming of curbs.



ALTERNATE CURB

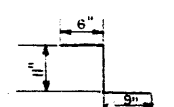
NOTE: Cylind. Voids to be continuous except they are stopped 6" from ends of span.



BARS HP



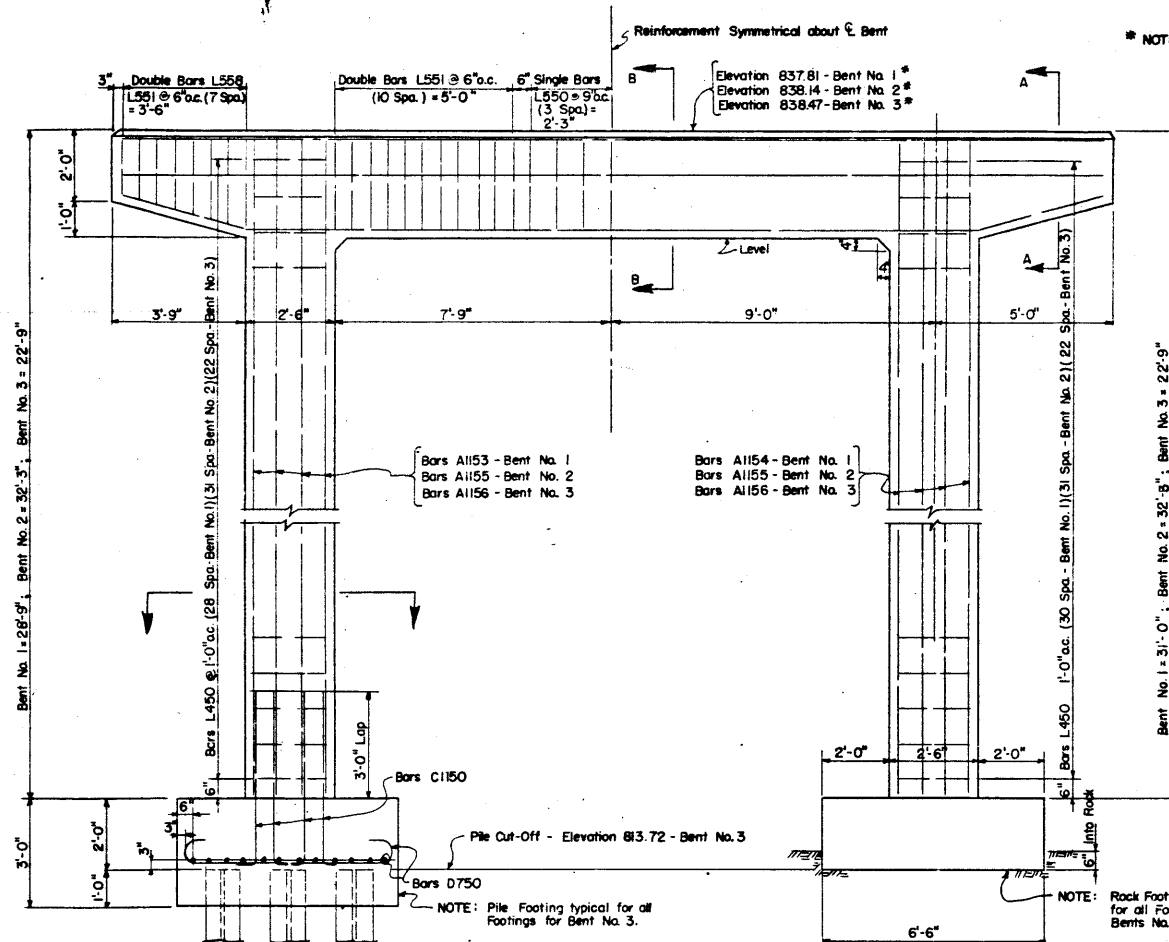
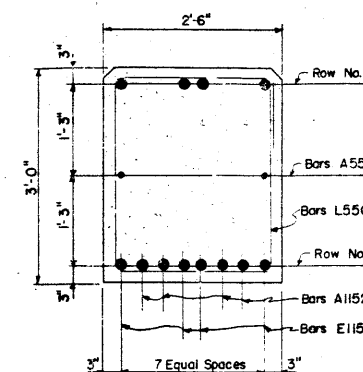
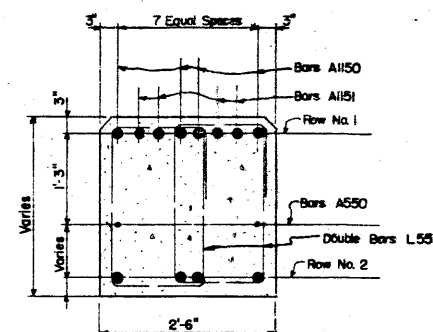
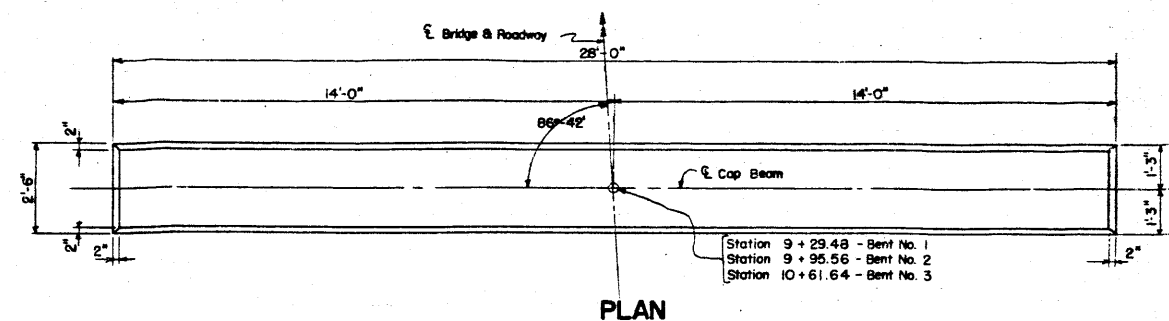
BARS H300



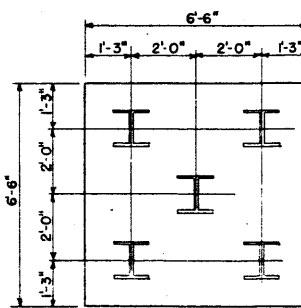
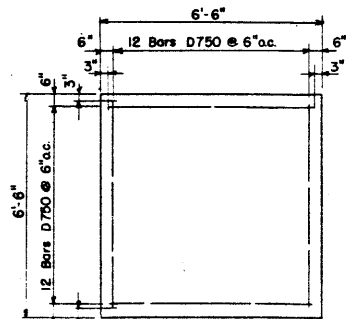
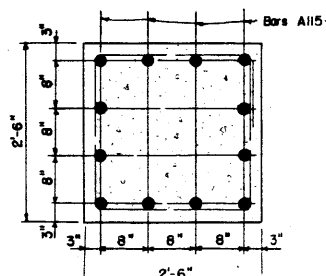
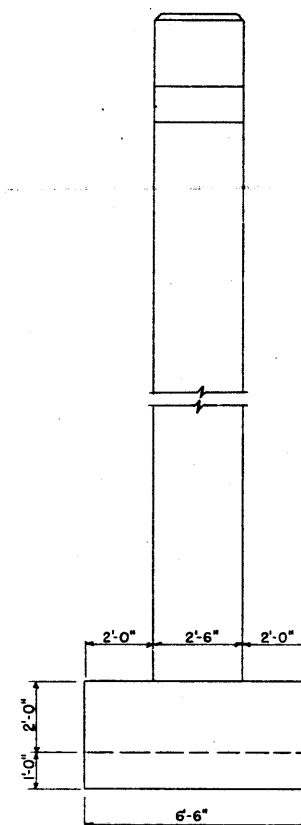
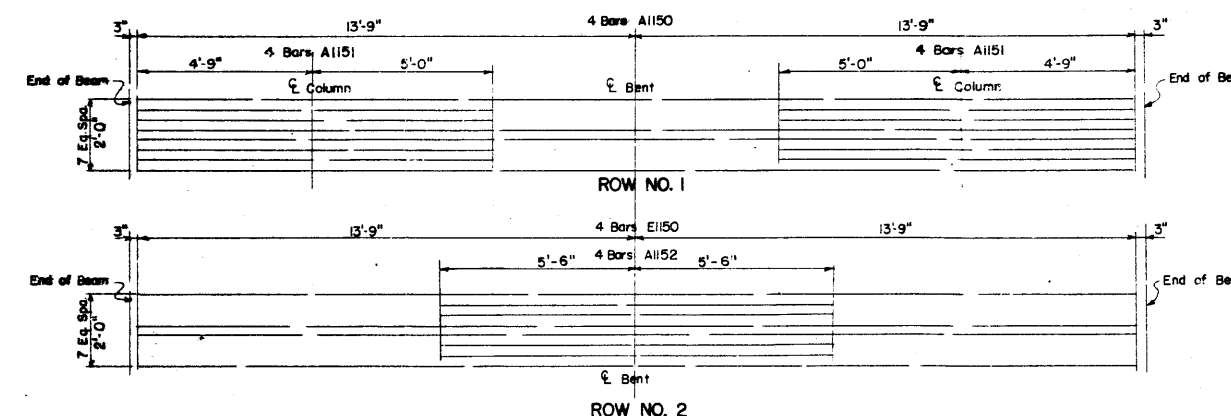
BARS Z400

DESIGNED BY C.F. Couch DATE 12-5-60
DRAWN BY J.W. Southerland DATE 12-5-60
TRACED BY A. Kelly & Wooley DATE 1-5-61
CHECKED BY R.B. Omohundro DATE 12-16-60

Revised 3-1-61
Revised 1-27-61



* NOTE: Elevations are at Cap Beam. Cross slope on Caps to be constructed to Roadway Grade.



ESTIMATED QUANTITIES

ITEM	CONCRETE CLASS "A" Cu. Yds.	REINFORCING STEEL Lbs.
Bent No. 1	26.1	8342
Bent No. 2	27.3	8686
Bent No. 3	25.9	7343

ALTERNATE "P"

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS

NASHVILLE
BENTS NO. 1, 2 & 3
BETHESDA & THOMPSON STATION ROAD
OVER INTERSTATE 65
STATION 132+38.71
WILLIAMSON COUNTY
1960

CORRECT *Frank G. Jones*
APPROVED *W. E. Long*

BILL OF STEEL

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		19	49	201

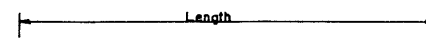
I-65-2(8)52

CURBS									ABUTMENT NO. 1&2									BENTS NO. 1,2&3								
BAR	LOCATION	SIZE	NO. REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO. REQ'D	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO. REQ'D	BENDING DIMENSIONS				LENGTH
				a	b	c	d						a	b	c	d						a	b	c	d	
A400	Curbs Span No. 1	4	12					26'-9"	A440	Wingwalls	4	8					4'-6"	A550	Cap Beam	5	6					27'-6"
A401	Curbs Span No. 2 & 3	4	24					33'-9"	A740	Abutment Beam	7	20					34'-6"	A150	Cap Beam	11	12					27'-6"
A402	Curbs Span No. 4	4	12					28'-3"	H440	Wingwalls	4	4	6"	2'-4"			5'-2"	A151	Cap Beam	11	24					9'-9"
									H441	"	4	4	6"	2'-10"			6'-2"	A152	Cap Beam	11	12					11'-0"
HB400	Curbs	4	360	1'-9"	4"	9"	1"	2'-10"	H442	"	4	4	6"	3'-4"			7'-2"	A153	Columns Bents No. 1	11	12					28'-6"
									H443	"	4	4	6"	3'-10"			8'-2"	A154	Columns Bents No. 1	11	12					30'-9"
									H444	Wingwalls	4	4	6"	4'-4"			9'-2"	A155	Columns Bents No. 2	11	24					32'-0"
									H540	Wingwalls	5	8	7"	6'-2"			12'-11"									
									H541	"	5	4	7"	5'-10"			12'-3"	A156	Columns Bents No. 3	11	24					22'-6"
									H542	"	5	4	7"	3'-10"			8'-3"	C150	Columns	11	72	4'-9"				5'-6"
									H543	Wingwalls	5	4	7"	1'-10"			4'-3"	D750	Footings	7	144	6'-0"				7'-8"
									L540	Abutment Beam	5	68	2'-2"	1'-0"	2'-2"		9'-8"	E150	Cap Beam	11	12	20'-6"	3'-8"	1'-0"		27'-10"
									G440	Wingwalls	4	8	8"	5'-6"	1'-9"	2'-10"	8'-7"	L450	Columns	4	170	2'-2"	1'-0"	2'-2"		9'-8"
																	L550	Cap Beam	5	21	2'-2"	1'-0"	2'-8"		10'-8"	
																	L551	"	5	144	1'-4"	1'-0"	2'-8"		9'-0"	
																	L552	"	5	12	1'-4"	1'-0"	2'-6"		8'-8"	
																	L553	"	5	12	1'-4"	1'-0"	2'-5"		8'-6"	
																	L554	"	5	12	1'-4"	1'-0"	2'-3"		8'-2"	
																	L555	"	5	12	1'-4"	1'-0"	2'-2"		8'-0"	
																	L556	"	5	12	1'-4"	1'-0"	2'-0"		7'-8"	
																	L557	"	5	12	1'-4"	1'-0"	1'-10"		7'-4"	
																	L558	Cap Beam	5	12	1'-4"	1'-0"	1'-9"		7'-2"	

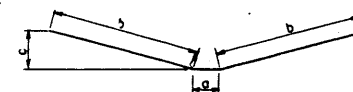
NOTE: 144 - 3/4" x 1'-6" Dowel Bars Required.

REINFORCING STEEL CODE

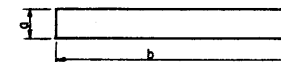
TYPE	SIZE	SERIES
A	5	06



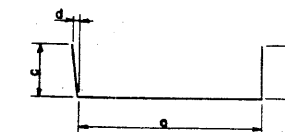
BARS A



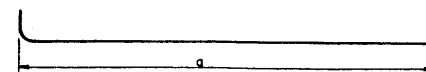
BARS E



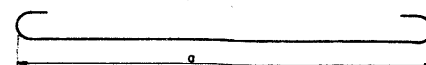
BARS H



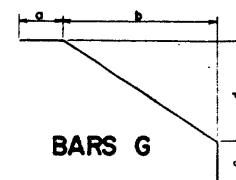
BARS HB



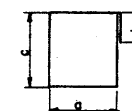
BARS C



BARS D



BARS G



BARS L

ALTERNATE "P"

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS

NASHVILLE

BILL OF STEEL

BETHESDA AND THOMPSON STATION ROAD OVER I-65

STATION 182+38.71

WILLIAMSON COUNTY

1960

CORRECT *Fred Greer*
ENGINEER

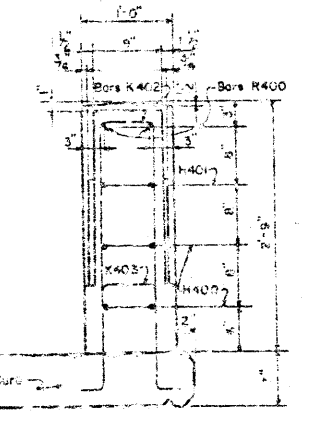
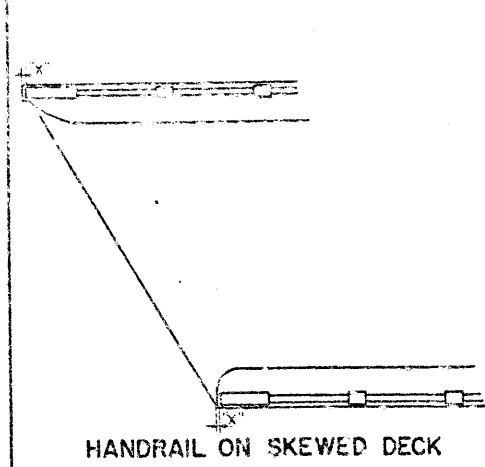
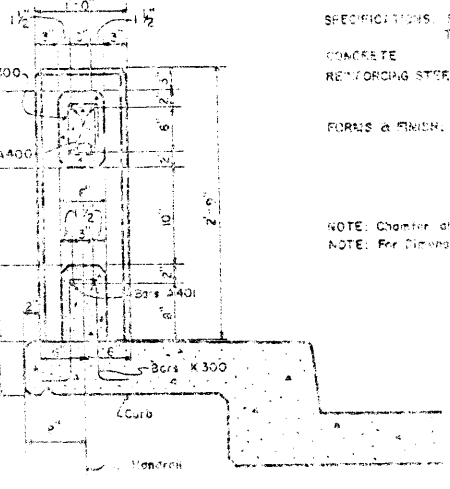
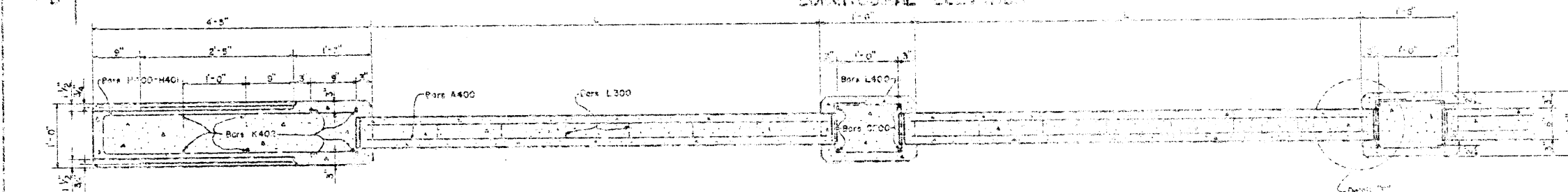
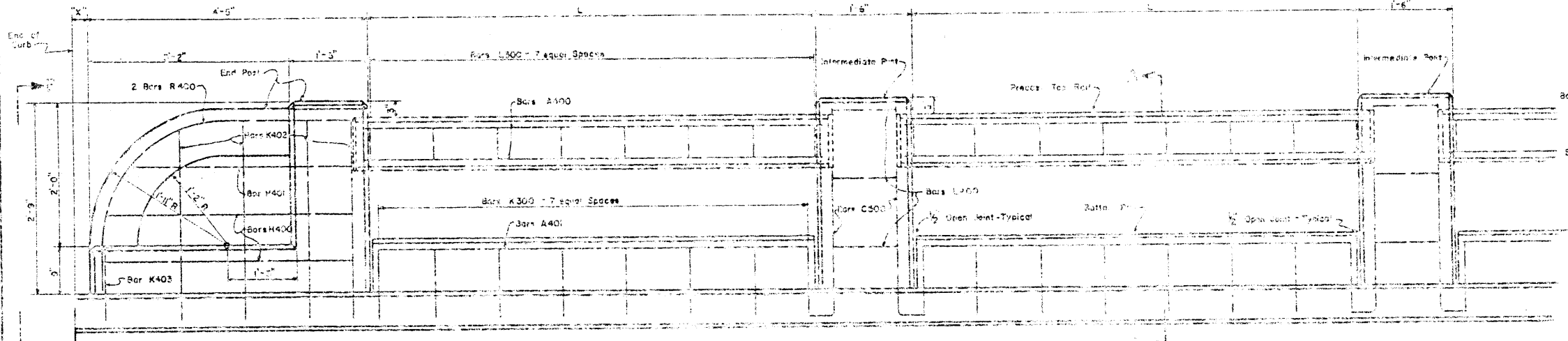
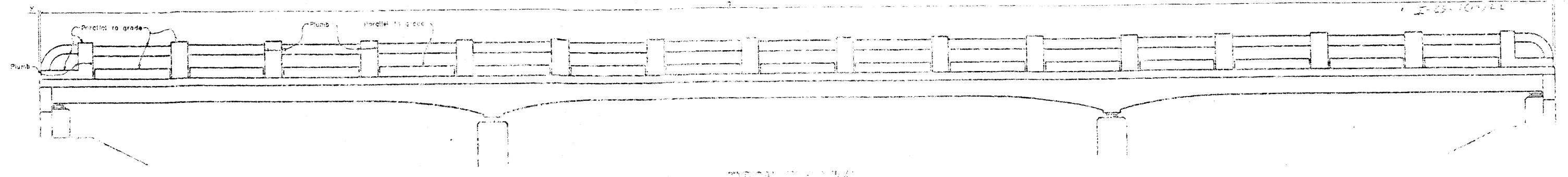
APPROVED *ell Long*
STATE HIGHWAY ENGINEER

K-4-155

DESIGNED BY C.E. Couch
DRAWN BY J.W. Sutherland
TRACED BY J.D. Wooley
CHECKED BY D.E. Strong & Omohundro

DATE 12-20-60
DATE 12-29-60
DATE 12-21-60

Sheet No.	Project No.	Scale	Date	Drawn By	Checked By	Approved By	Project Name
1	100	1"=10'	4-4-63	J.L. Porges	R. Reagan		Standard Concrete Handrail



GENERAL NOTES

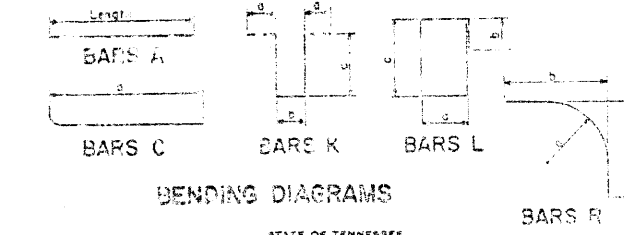
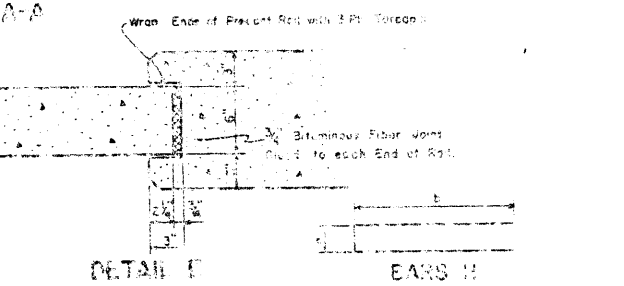
SPECIFICATIONS: Standard Detail No. 1, Bridge Specifications of the Tennessee Department of Highways, To Be Class "A".

CONCRETE: See Specifications. To be intermediate strength concrete with standard high strength reinforcement as recommended by C.R.S.I.

FORMS & BRICK: See Specifications.

NOTE: Chamfer all edges on Handrail Posts and Rails 1/2".

NOTE: For Dimensions, Q.M.L. See Bridge Layout Sheet.



END POST - LIST OF MATERIALS - EACH

Bar	Size	No. Req.	Bending Dimensions	Length	Quantity
A100	4	2	0'-6" 4'-0"	8'-6"	45.0 0.37
A401	4	1	0'-6" 3'-7"	7'-9"	
K402	4	4	0'-3" 0'-7" 2'-4"	6'-11"	
K403	4	1	0'-3" 0'-7" 1'-2"	3'-5"	
R403	4	2	1'-3" 4'-0" 2'-6"	5'-9"	

INTERMEDIATE POST LIST OF MATERIALS - EACH

Bar	Size	No. Req.	Bending Dimensions	Length	Quantity
A502	5	4	3'-0" 10'-5"	3'-4"	22.6 0.15
L400	4	3	0'-9" 10'-5"	10'-2"	

TOP RAIL - LIST OF MATERIALS - EACH

Bar	Size	No. Req.	Bending Dimensions	Length	Quantity
A100	4	2	0'-6" 4'-0"	8'-6"	23.5 0.10
A401	4	1	0'-6" 3'-7"	7'-9"	27.6 0.10
A402	4	4	0'-3" 0'-7" 2'-4"	6'-11"	24.1 0.10
A403	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.7 0.10
A404	4	4	0'-3" 0'-7" 2'-4"	6'-11"	24.7 0.11
A405	4	1	0'-3" 0'-7" 1'-2"	3'-5"	23.0 0.11
A406	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A407	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A408	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A409	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A410	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A411	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A412	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A413	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A414	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A415	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A416	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A417	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A418	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11
A419	4	1	0'-3" 0'-7" 1'-2"	3'-5"	21.5 0.11
A420	4	4	0'-3" 0'-7" 2'-4"	6'-11"	25.4 0.11

BOTTOM RAIL - LIST OF MATERIALS - EACH

Bar	Size	No. Req.	Bending Dimensions	Length	Quantity
A100	4	2	0'-6" 4'-0"	8'-6"	17.7 0.09
A401	4	1	0'-6" 3'-7"	7'-9"	17.8 0.05
A402	4	4	0'-3" 0'-7" 2'-4"	6'-11"	17.9 0.09
A403	4	1	0'-3" 0'-7" 1'-2"	3'-5"	18.1 0.10
A404	4	4	0'-3" 0'-7" 2'-4"	6'-11"	18.2 0.10
A405	4	1	0'-3" 0'-7" 1'-2"	3'-5"	18.3 0.10
A406	4	4	0'-3" 0'-7" 2'-4"	6'-11"	18.4 0.10
A407	4	1	0'-3" 0'-7" 1'-2"	3'-5"	18.5 0.10
A408	4	4	0'-3" 0'-7" 2'-4"	6'-11"	18.6 0.10
A409	4	1	0'-3" 0'-7" 1'-2"	3'-5"	18.7 0.10
A410	4	4	0'-3" 0'-7" 2'-4"	6'-11"	18.8 0.10
A411	4	1	0'-3" 0'-7" 1'-2"	3'-5"	18.9 0.10
A412	4	4	0'-3" 0'-7" 2'-4"	6'-11"	19.0 0.11
A413	4	1	0'-3" 0'-7" 1'-2"	3'-5"	
A414	4	4	0'-3" 0'-7" 2'-4"	6'-11"	
A415	4	1	0'-3" 0'-7" 1'-2"	3'-5"	
A416	4	4	0'-3" 0'-7" 2'-4"	6'-11"	
A417	4	1	0'-3" 0'-7" 1'-2"	3'-5"	
A418	4	4	0'-3" 0'-7" 2'-4"	6'-11"	
A419	4	1	0'-3" 0'-7" 1'-2"	3'-5"	
A420	4	4	0'-3" 0'-7" 2'-4"	6'-11"	

BENDING DIAGRAMS

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
NASHVILLE

STANDARD
CONCRETE HANDRAIL
1960

CORRECT: *Red Gene*

APPROVED: *Red Gene*

H-5-110

Revised 1-30-1962
Revised 8-9-September 1960

DESIGNED BY: J.L. Porges
DRAWN BY: R. Reagan
CHECKED BY: R. Reagan
DATE: 4-4-63