

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	1

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 Bridge Repair Plans 071-0070
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7. Deck Plan & Cross Section
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12. Bar Splicer Assembly Details
13. Detail of Bituminous Shoulder at Guardrail (Dist. Std 23.4)
14. Concrete Curb Special (Dist. Std. 11.4)
 & Stop Line Sign for Temporary Signals (Dist. Std. 99.4)

STANDARDS

- 606001-02 Concrete Curb Type B and Combination Concrete Curb and Gutter
- 630001-05 Steel Plate Beam Guardrail
- 631031-05 Traffic Barrier Terminal, Type 6
- 701001-01 Off-Road Operations, 2L 2W, 4.5 m (15') Min. Away, For Speeds > 45 MPH
- 701201-02 Lane Closure, 2L 2W, Day Only, On-Road To 600 mm (24") Off-Road, For Speeds > 45 MPH
- 701306-01 Lane Closure, 2L 2W, Slow Moving Day Only Operations, For Speeds > 45 MPH
- 701316-03 Lane Closure, 2L 2W, Bridge Repair
- 701326-02 Lane Closure, 2L 2W, Pavement Widening, For Speeds > 45 MPH
- 702001-05 Traffic Control Devices

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

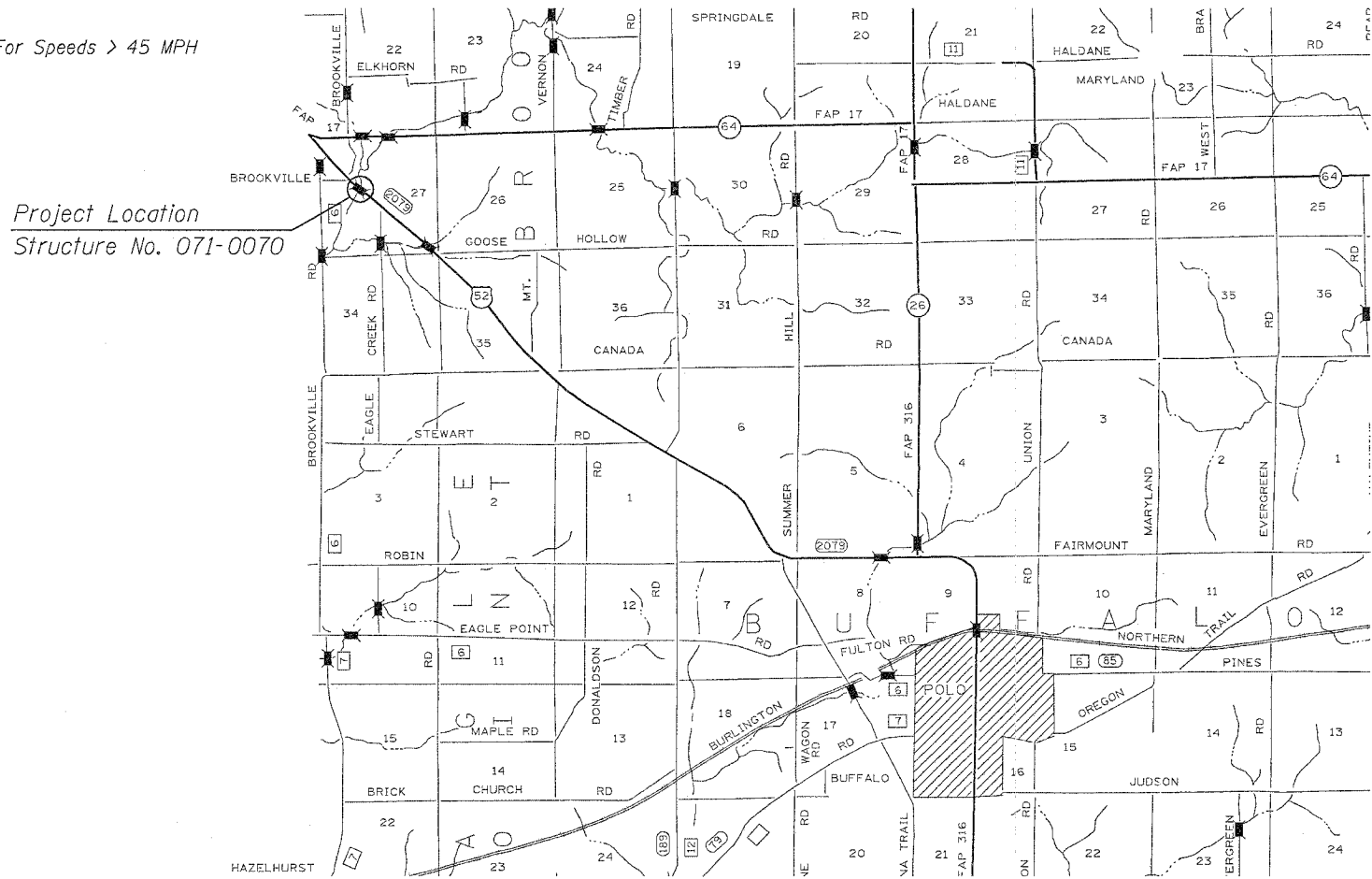
PROPOSED
HIGHWAY PLANS

FAS ROUTE 2079 (U.S. ROUTE 52)
SECTION 16BR-M
OGLE COUNTY

D-92-046-05



C-92-045-05



Project Location
Structure No. 071-0070

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 64A85

Township: Brookville
Sections: 27

Net Length of Project: = 325' = 0.06 Miles
Gross Length of Project: = 325' = 0.06 Miles

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 2-8-2005
Henry L. Mountain
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25, 2005
Mike Hines
ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 2005
Victor Modarres
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

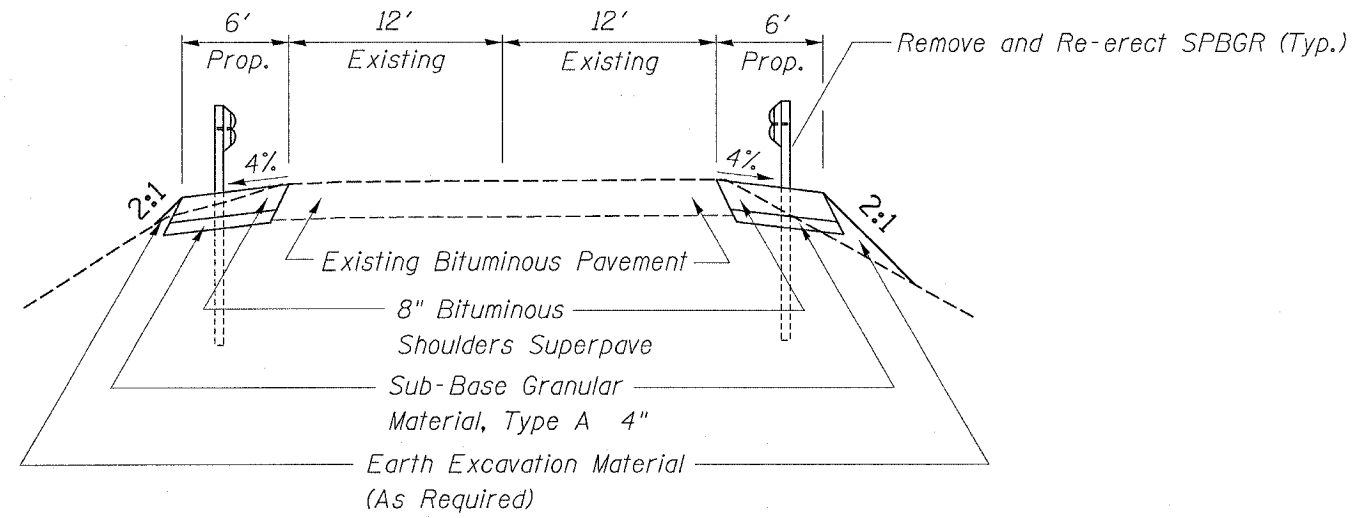
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL SECTIONS

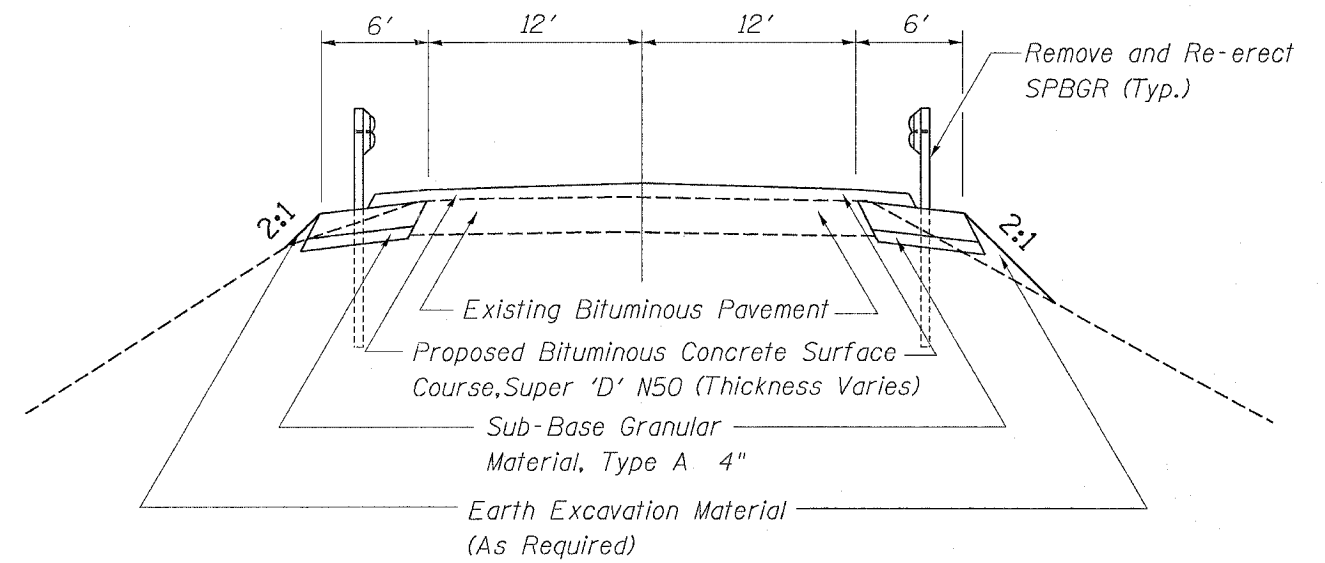
Sta. 969+35 to 969+87

Sta. 973+12 to 973+70



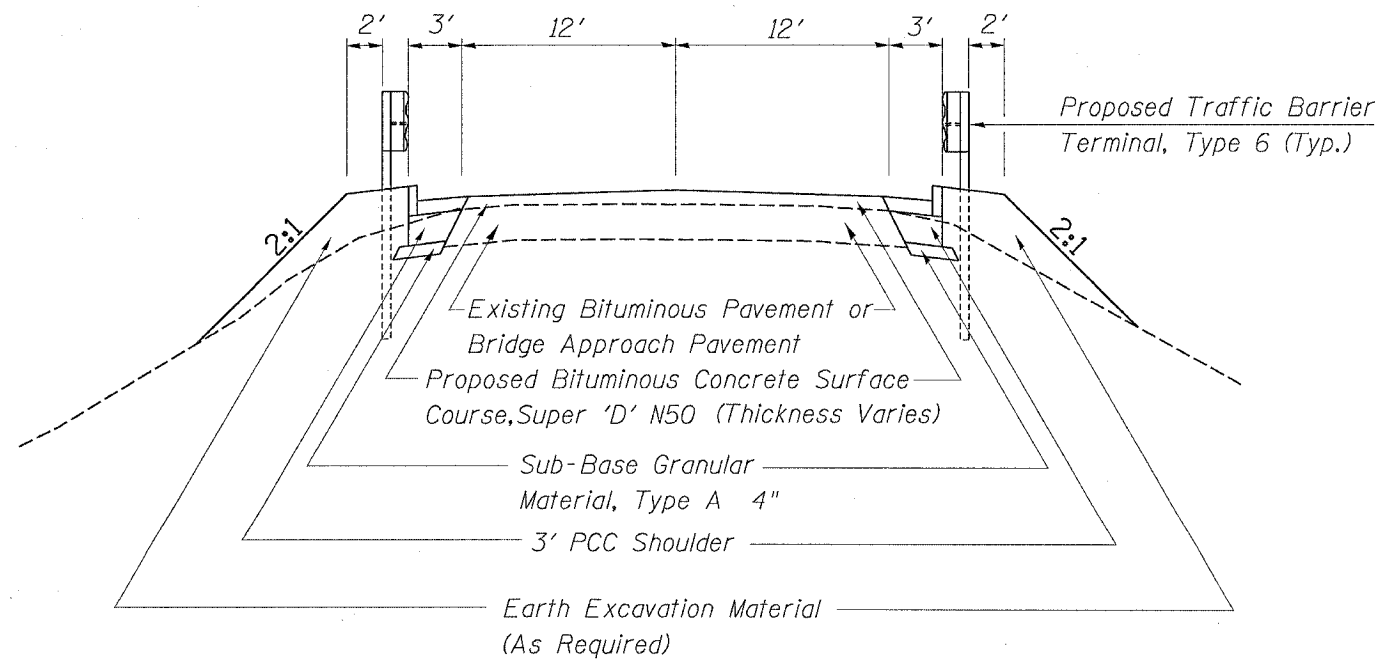
Sta. 969+87 to 970+52

Sta. 972+48 to 973+12



Sta. 970+52 to 970+87

Sta. 972+13 to 972+48



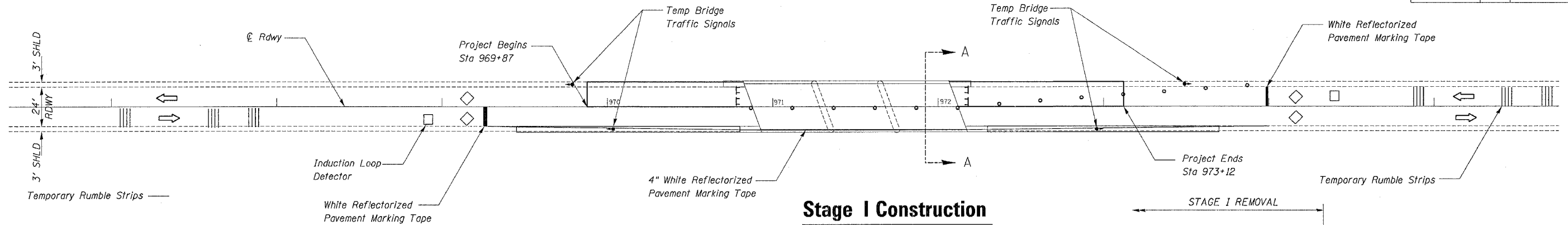
TYPICAL SECTIONS
 US 52 OVER ELKHORN CREEK
 FAS ROUTE 2079 (US 52)
 SECTION 16BR-M
 OGLE COUNTY
 STRUCTURE NUMBER 071-0070

PLT DATE = 11/08/08
 FILE NAME = D:\WORK\0811\08110710070.dgn
 PLOT SCALE = 50.0000 / IN.
 REFERENCE = REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Stage I Traffic Control

Refer to Standard 701316



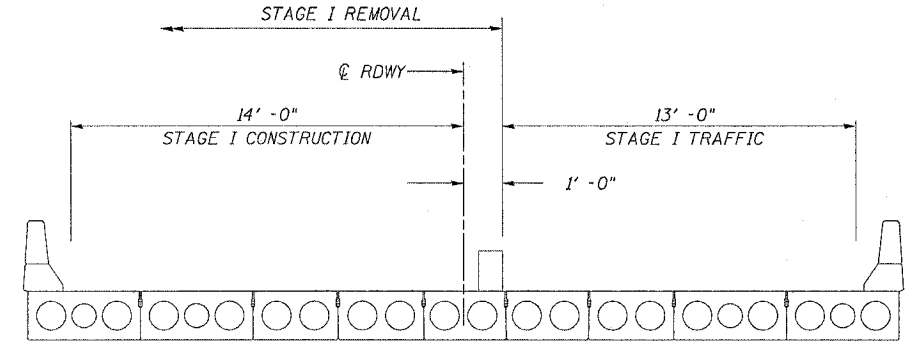
Stage I Construction

Place Bituminous & PCC Shoulder on South Side using Standard 701306 or 701326

Install Standard 701316. Use Standard 701201

Move Traffic to Stage I Traffic Lane. Complete Stage I Construction.

Place Bituminous & PCC Shoulder on North Side.



SECTION A-A

Pavement Marking Removal		Sq. Ft.
Stage I	Edge Line	120
	Centerline	27
Stage II	Edge Line	48
Total		195

Temporary Bridge Traffic Signals		Each
Standard 701316		1
Total		1

Pavement Marking Tape, Type III 4"

	Foot
Stage I Right Line	473
Stage I Edge Line	470
Total	943

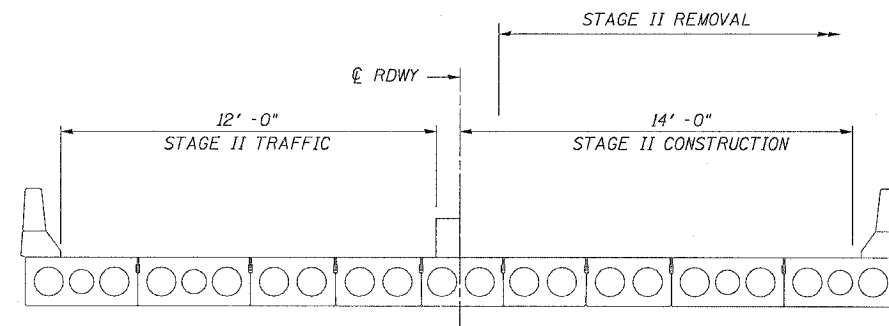
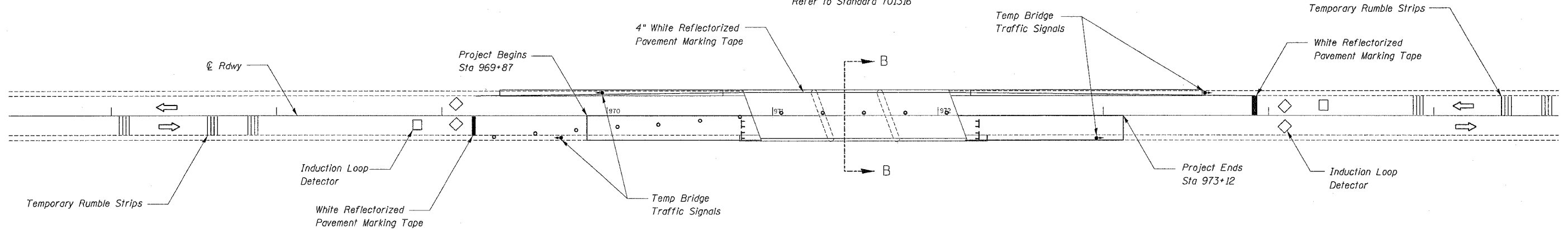
Work Zone Pavement Marking Removal		Sq. Ft.
Stage II	Temporary Lines	272
Total		272

Traffic Control & Protection Std 701316		Each
Entire Project		1
Total		1

Temporary Rumble Strips		Each
Standard 701316		1
Total		1

Stage II Traffic Control

Refer to Standard 701316



SECTION B-B

Stage II Construction

Relocate Traffic Control Devices to Stage II using Standard 701301 or 701306.

Move traffic to Stage II Traffic Lanes. Complete Stage II Construction.

Remove Standard 701316 using Standard 701201

Short Term Pavement Marking 4"		Foot
Temporary Centerline Skip Dash (Yellow)		44
Total		44
Paint Pavement Marking - Line 4"		Foot
Centerline Skip Dash (Yellow)		82
Left & Right Edge Line (White)		944
Total		1026

TRAFFIC CONTROL PLAN
 US 52 OVER ELKHORN CREEK
 FAS ROUTE 2079 (US 52)
 SECTION 16BR-M
 OGLE COUNTY
 STRUCTURE NUMBER 071-0070

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

General Notes

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel shall be AASHTO M 270 Grade 36, unless otherwise noted.

Reinforcement bars shall conform to the requirements of AASHTO M31, or M322 Grade 60.

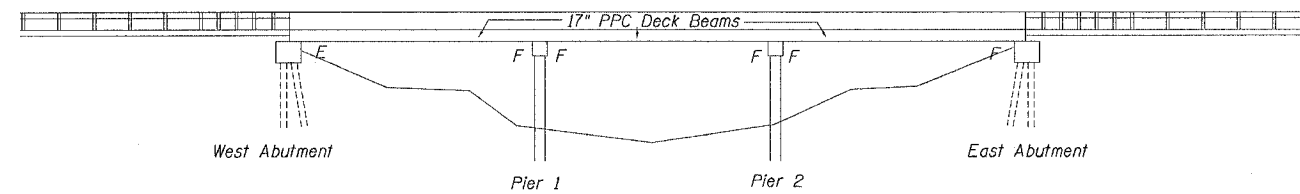
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

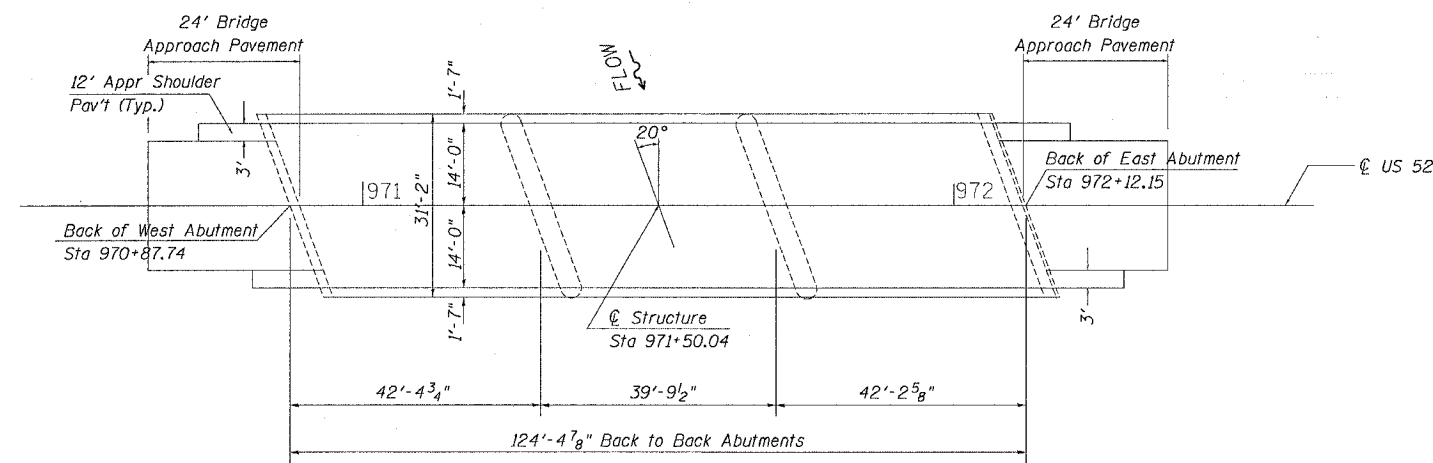
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M 300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

Total Bill of Materials

ITEM	UNIT	QUANTITY
BAR SPLICERS	EA	130
BIT CONC SURF REMOVAL COMPLETE	SQ YD	379
CONC WEARING SURF 4"	SQ YD	372
BR DECK GROOVING	SQ YD	345
CONC SUPERSTRUCTURE	CU YD	3.3
CONC REMOVAL	CU YD	2.9
F&E STRUCT STEEL	POUND	418
REINF BARS, EPOXY CTD	POUND	5176
KEYWAY REPAIR	FOOT	960
DOWEL REPAIR	EA	90
BEARING PAD ADJUSTMENT	EA	78
BRIDGE JOINT SYSTEM (EXPANSION), 1 ⁵ / ₈ "	FOOT	31
PROTECTIVE COAT	SQ YD	372
FLOOR DRAIN EXTENSION	EA	12



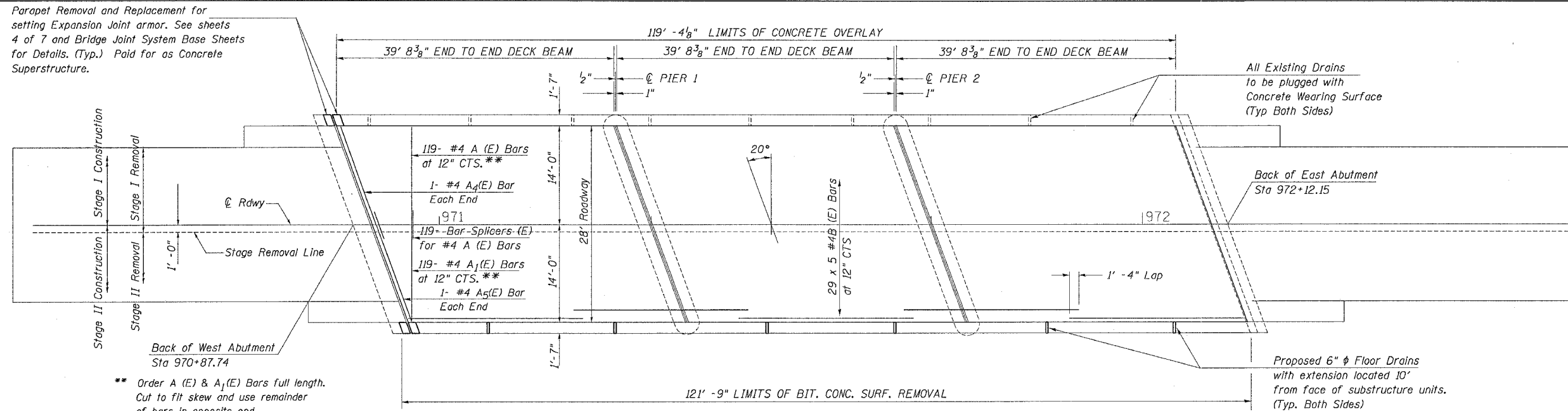
Elevation



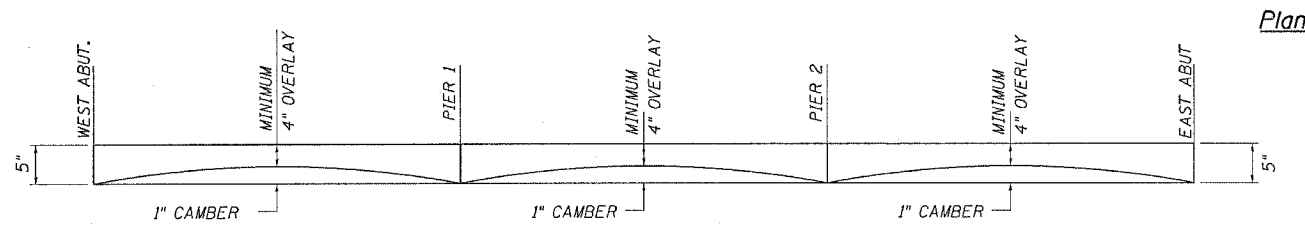
Plan

GENERAL PLAN AND ELEVATION
 US 52 OVER ELKHORN CREEK
 FAS ROUTE 2079 (US 52)
 SECTION 16BR-M
 OGLE COUNTY
 STRUCTURE NUMBER 071-0070

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



** Order A (E) & A₁(E) Bars full length. Cut to fit skew and use remainder of bars in opposite end.



GRADE PROFILE

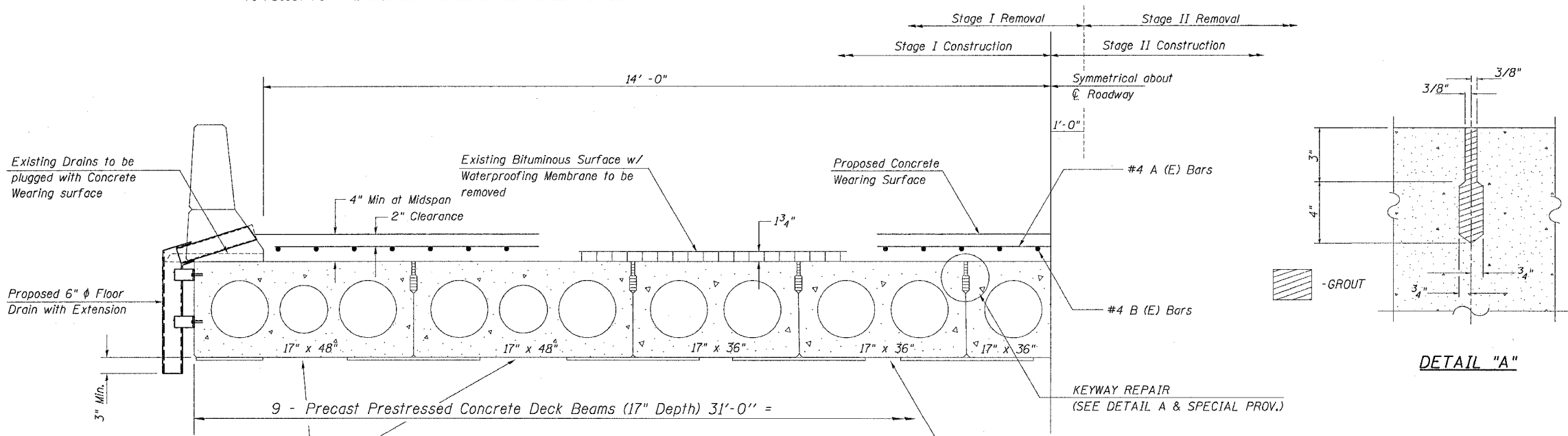
THE MINIMUM THICKNESS OF THE CONCRETE OVERLAY VARIES AS REQUIRED TO ADJUST FOR THE EXISTING PROFILE GRADE AND BEAM CAMBER.

Bill of Material

BAR	NO.	SIZE	LENGTH	SHAPE
A (E)	121	4	13' - 9"	—
A ₁ (E)	121	4	13' - 11"	—
A ₂ (E)	3	5	14' - 7"	—
A ₃ (E)	3	5	14' - 11"	—
A ₄ (E)	2	4	14' - 7"	—
A ₅ (E)	2	4	14' - 11"	—
B (E)	145	4	24' - 10"	—
H (E)	6	6	14' - 9"	—
H ₁ (E)	6	6	17' - 3"	—
U (E)	29	5	3' - 8"	—

ITEM	UNIT	QUANTITY
BIT CONC SUR REM COMPLETE	SQ YD	379
CONC WEARING SURF 4"	SQ YD	372
BR DECK GROOVING	SQ YD	345
CONC SUPERSTRUCTURE	CU YD	3.3
CONC REM	CU YD	2.9
F & E STRUCT STEEL	POUND	418
REINF BARS, EPOXY CTD	POUND	5176
KEYWAY REPAIR	FT	960
DOWEL REPAIR	EA	90
BEARING PAD ADJUSTMENT	EA	78
BRIDGE JOINT SYSTEM (EXPANSION), 1 5/8"	FT	31
PROTECTIVE COAT	SQ YD	372
BAR SPLICERS	EA	130
FLOOR DRAIN EXTENSION	EA	12

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED. BARS INDICATED THUS 34X3-#4 BARS INDICATES 34 LINES OF BARS WITH 3 LENGTHS PER LINE.



HALF CROSS SECTION

FILL OPENINGS SURROUNDING FABRIC BEARING PADS AT PIERS AND EAST ABUTMENT WITH EPOXY GROUT. TO BE PAID FOR AS BEARING PAD ADJUSTMENT.

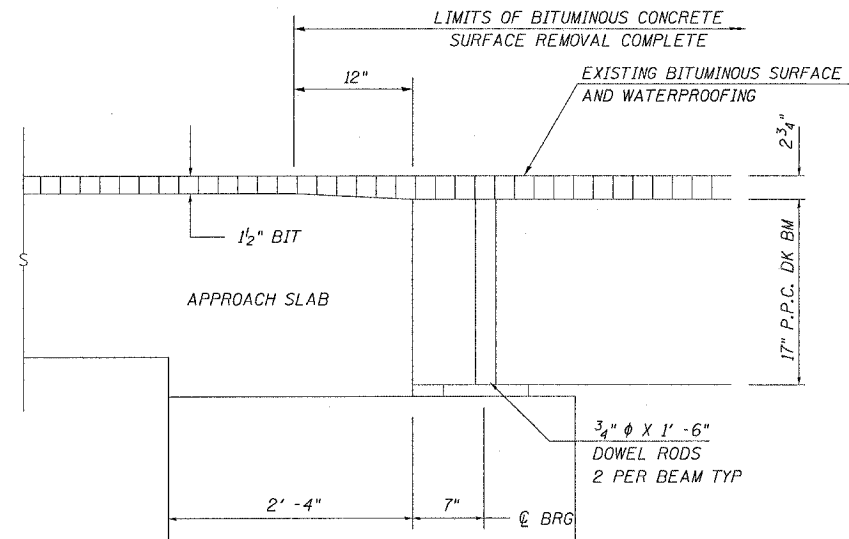
THE CONTRACTOR SHALL INSTALL 1/8" X 9" X 9" STAINLESS STEEL SHIMS AT BEARING PADS, WHERE REQUIRED ON WEST ABUTMENT. TO BE PAID FOR AS BEARING PAD ADJUSTMENT.

NOTE: THE QUANTITY GIVEN FOR KEYWAY REPAIR INCLUDES THE FULL LENGTH OF ALL KEYWAYS. THE ACTUAL KEYWAY REPAIR LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AFTER REMOVAL OF THE EXISTING WEARING SURFACE.

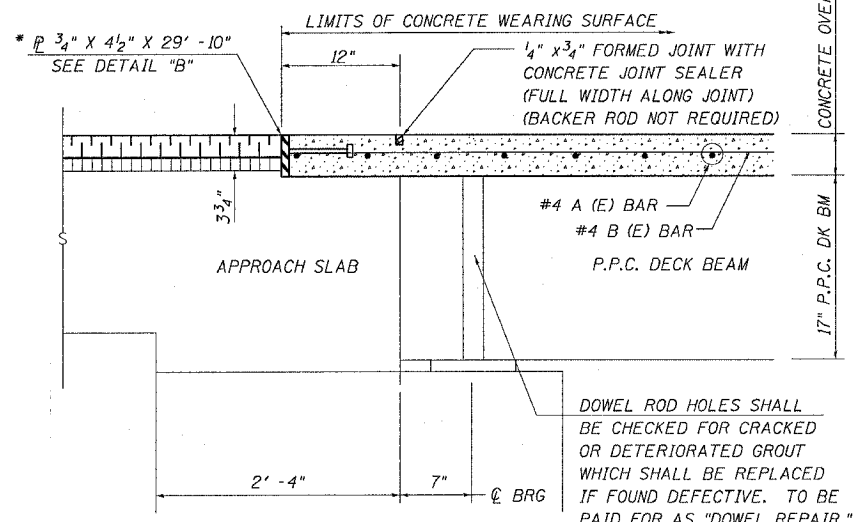
**DECK PLAN & CROSS SECTION
US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070**

PLT DATE = Tue Feb 08 08:35:25 2005
FILE NAME = D:\BR\plans\Ogle County\0710070.dgn
PLOT SCALE = 1/8" = 1'-0"
REFERENCE = SHEET 2

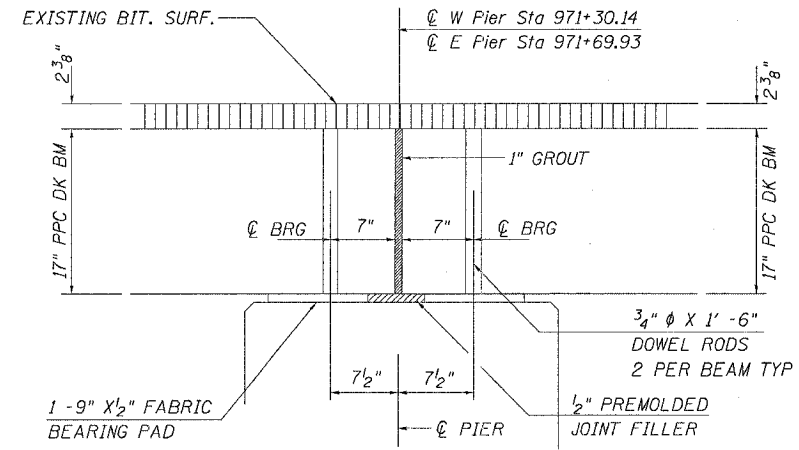
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



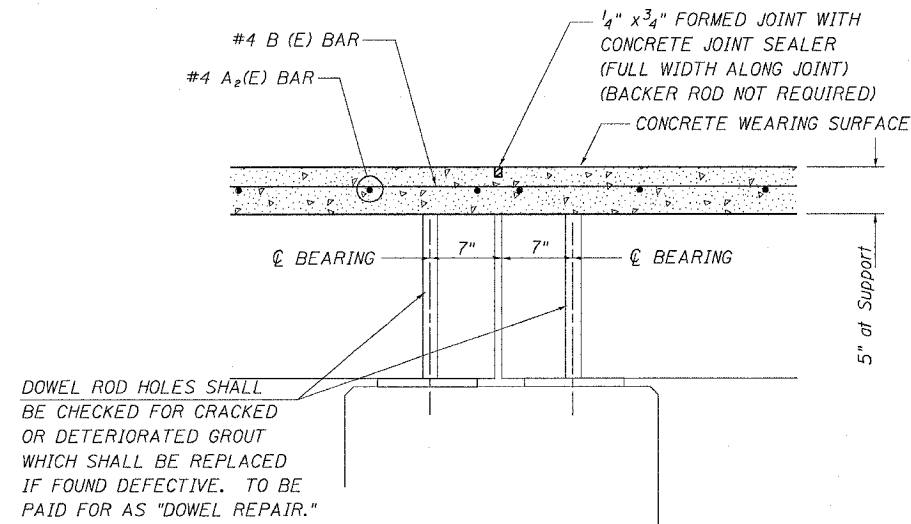
EXISTING SECTION THRU EAST ABUTMENT



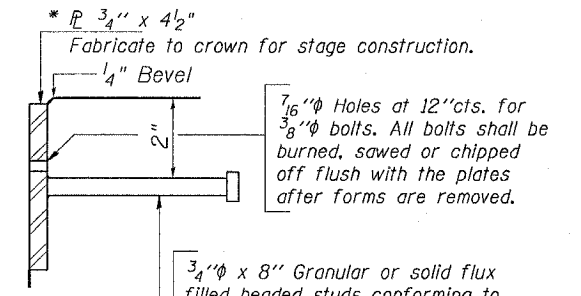
PROPOSED SECTION THRU EAST ABUTMENT



EXISTING SECTION THRU PIER

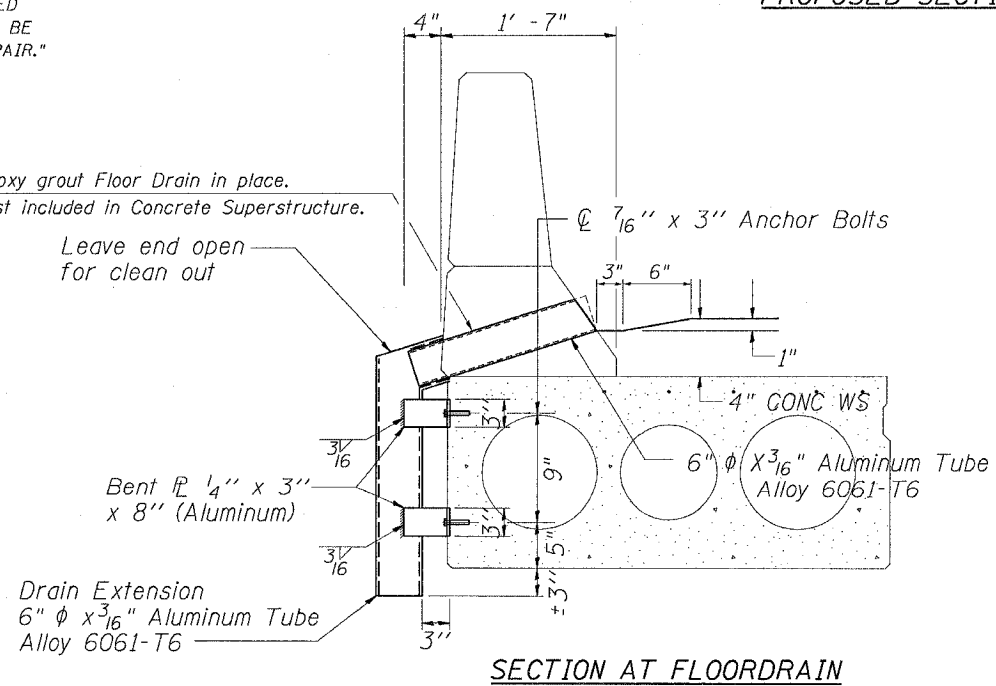


PROPOSED SECTION THRU PIER

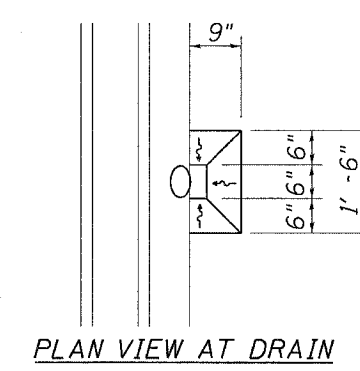


DETAIL "B"

Epoxy grout Floor Drain in place.
Cost included in Concrete Superstructure.
Leave end open for clean out



SECTION AT FLOORDRAIN



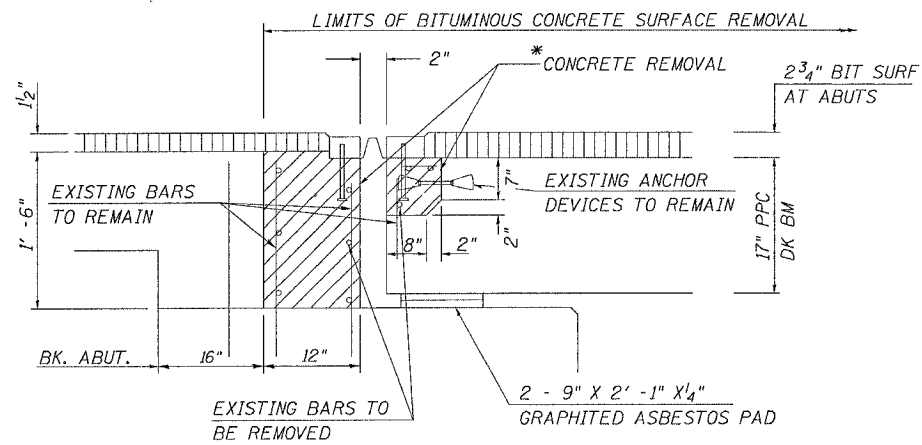
PLAN VIEW AT DRAIN

NOTE: EXISTING REINFORCEMENT BARS & COIL LOOP ANCHOR DEVICES EXTENDING INTO THE REMOVAL AREAS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS OR COIL LOOPS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

FIXED JOINT AND FLOORDRAIN DETAILS
US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070

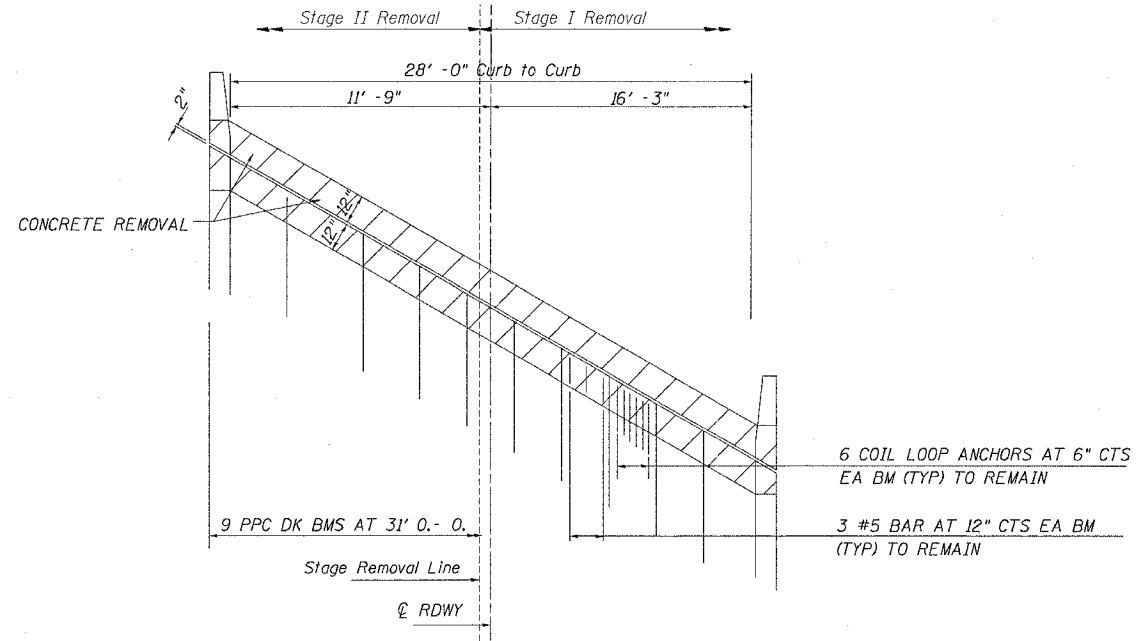
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* Note: The contractor shall use extreme care during concrete removal so as not to damage the PPC Deck Beams

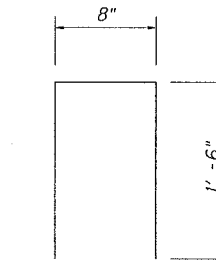


EXISTING SECTION THRU WEST ABUTMENT (EXPANSION)

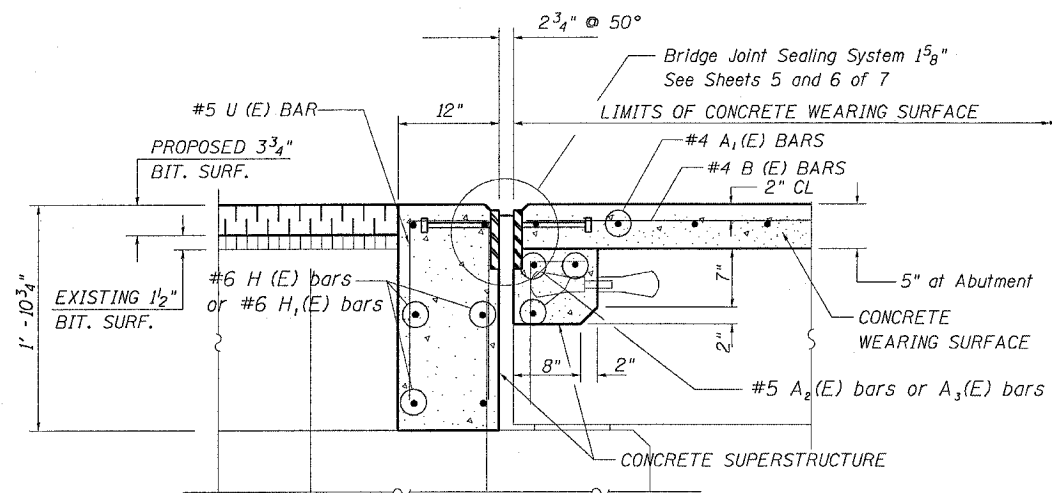
NOTE: EXISTING REINFORCEMENT BARS & COIL LOOP ANCHOR DEVICES EXTENDING INTO THE REMOVAL AREAS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS OR COIL LOOPS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.



EXISTING PARTIAL PLAN (WEST ABUTMENT)

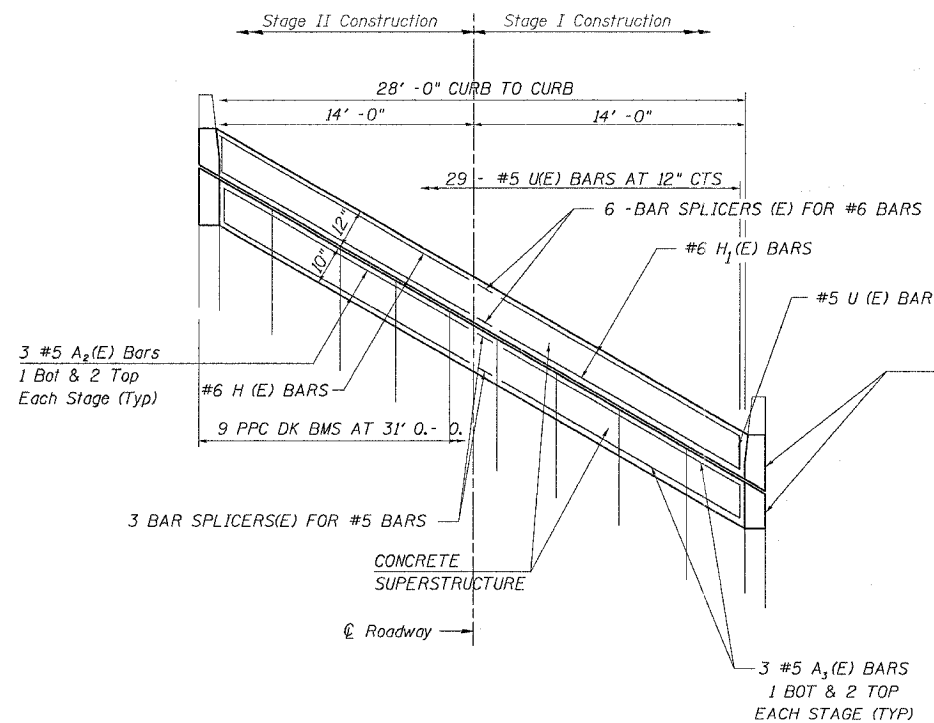


#5 U (E) BAR



PROPOSED SECTION THRU WEST ABUTMENT (EXPANSION)

Note: Dimensions are based on PJS Joint. If the contractor elects to use the alternate strip seal, the dimensions may require adjustments as detailed on the joint base sheet.



PROPOSED PARTIAL PLAN (WEST ABUTMENT)

Remove and replace concrete parapet for setting of expansion joint armor. Existing Reinforcement Bars extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any Reinforcement bars that are damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Cost included in Bridge Joint System (Expansion), 1 5/8"

EXPANSION JOINT DETAILS
 US 52 OVER ELKHORN CREEK
 FAS ROUTE 2079 (US 52)
 SECTION 16BR-M
 OGLE COUNTY
 STRUCTURE NUMBER 071-0070

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

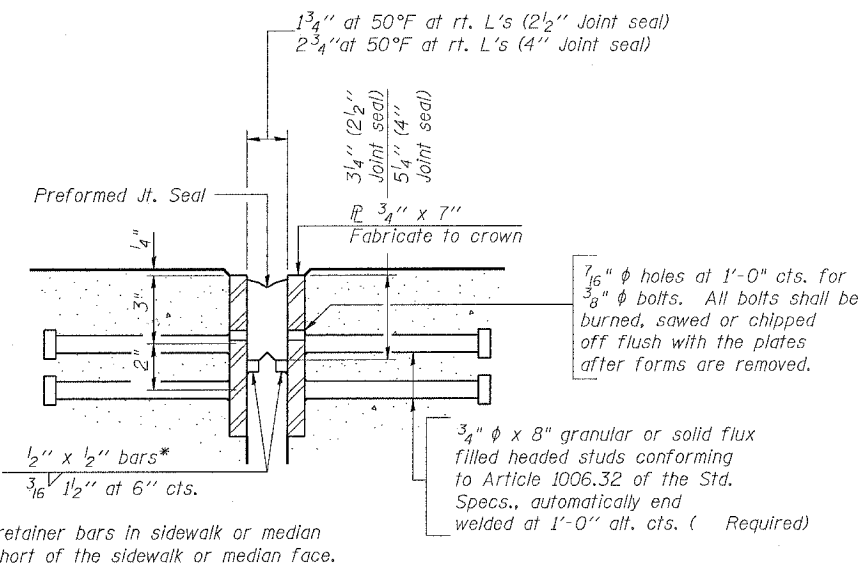
FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 7 SHEETS
2079	**	OGLE	14	10	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	

** 16BR-M

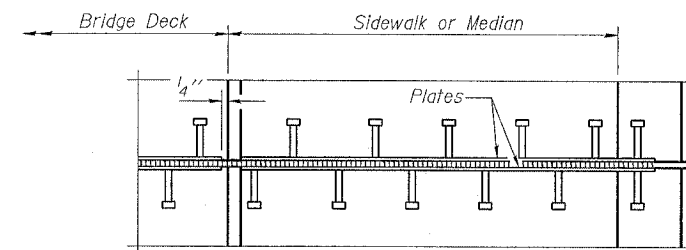
Design Movement	Required Preformed Joint Seal Size	Required Strip Seal Rated movement
1"	2 1/2"	1"
1 5/8"	4"	2"

GENERAL NOTES

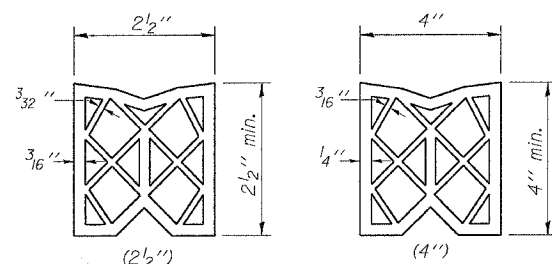
Furnish steel plates in segments of 20 feet maximum length. Maximum space between installed segments shall be 3/16". Seal space with silicone sealant suitable for structural steel.



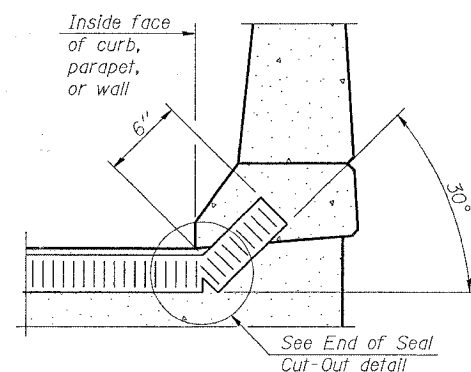
SECTION THRU EXPANSION JOINT
(2 1/2" and 4" joint seals)



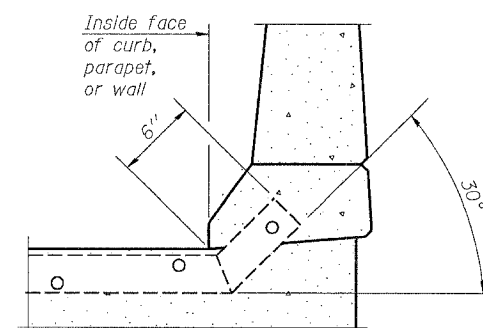
PLAN AT SIDEWALK OR MEDIAN



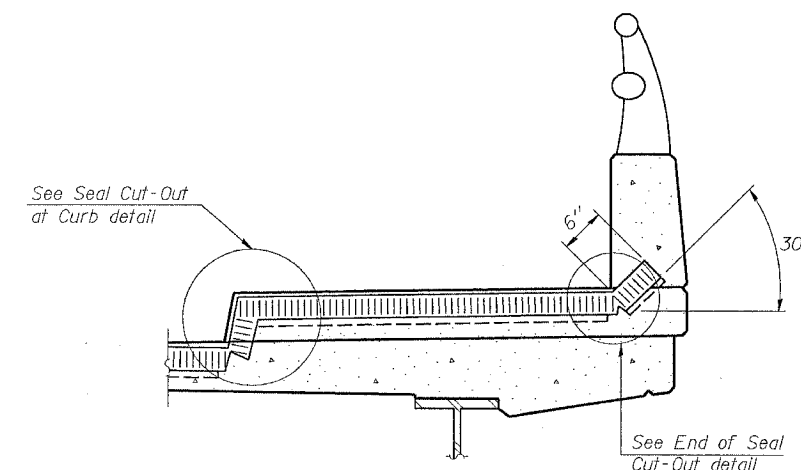
PREFORMED JOINT SEAL



AT CURB, PARAPET, OR WALL
(Showing seal)



AT CURB, PARAPET, OR WALL
(Showing plate)



AT SIDEWALK OR MEDIAN*
(Showing plate and seal)

* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS

BILL OF MATERIAL

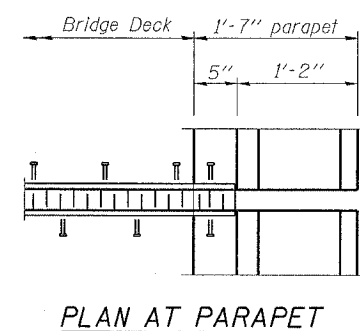
Item	Unit	Total
Bridge Joint System (Expansion) 1 5/8"	foot	31

(Sheet 1 of 2)

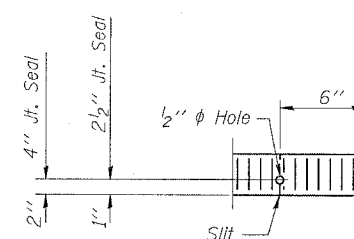
BRIDGE JOINT SYSTEM - EXPANSION
(PREFORMED JOINT SEAL)

US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070

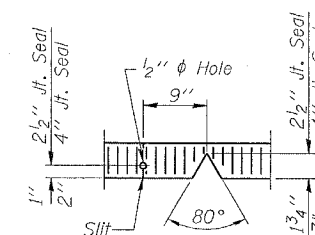
DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES
EJ-BJS	10-22-04



PLAN AT PARAPET



END OF SEAL CUT-OUT



SEAL CUT-OUT AT CURB

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	***	OGLE	14	11
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

16BR-M

GENERAL NOTES

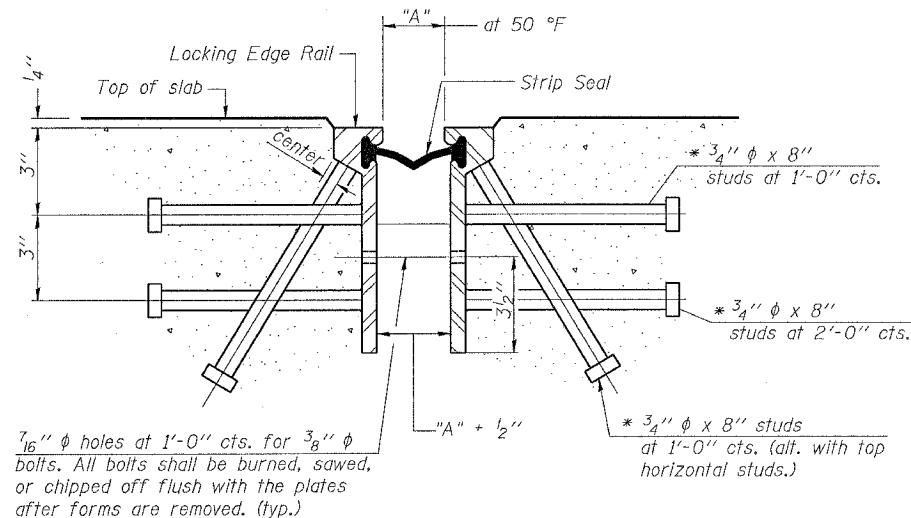
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

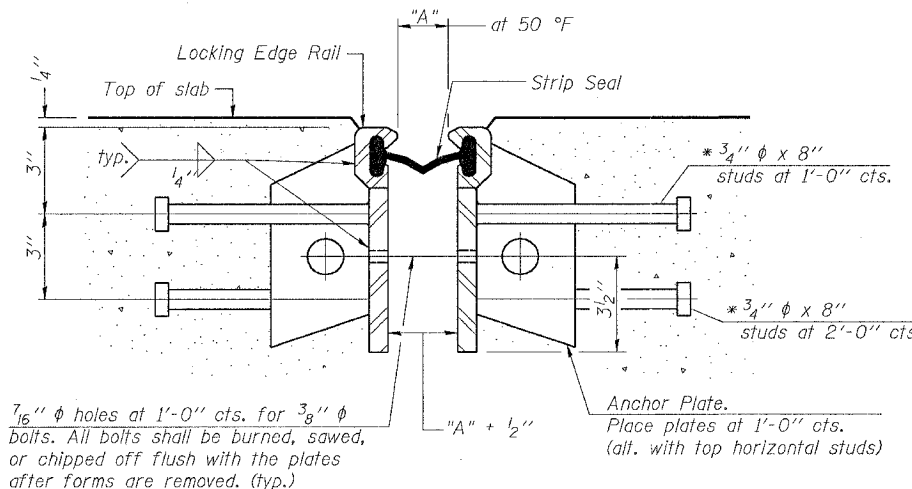
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.



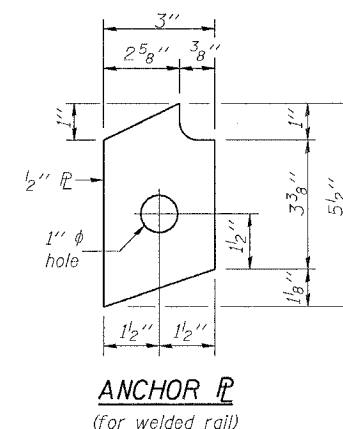
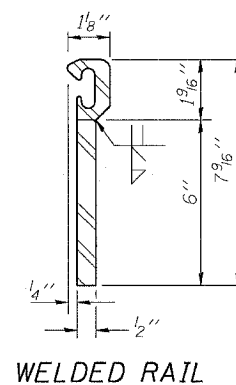
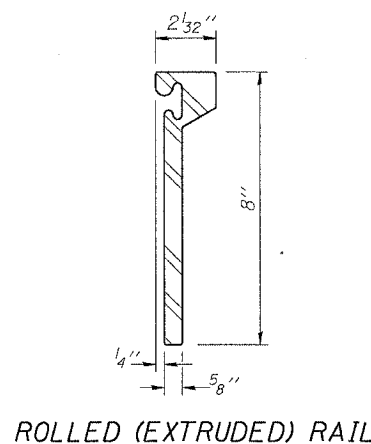
Required Strip Seal rated movement	"A"
1"	1 1/8"
2"	1 3/4"



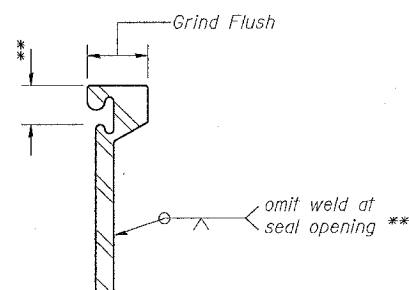
SECTION THRU ROLLED RAIL EXP. JOINT
(Studs Required)

SECTION THRU WELDED RAIL EXP. JOINT
(Studs Required)
(Anchor Plates Required)

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

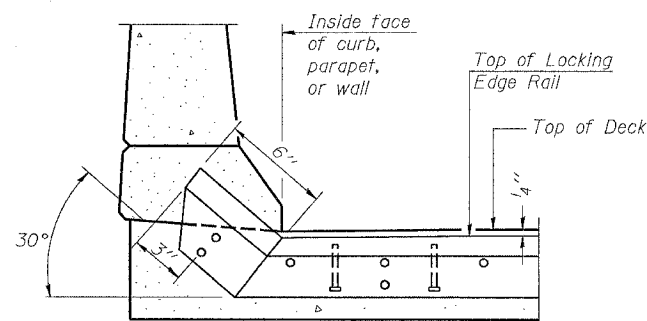


LOCKING EDGE RAILS

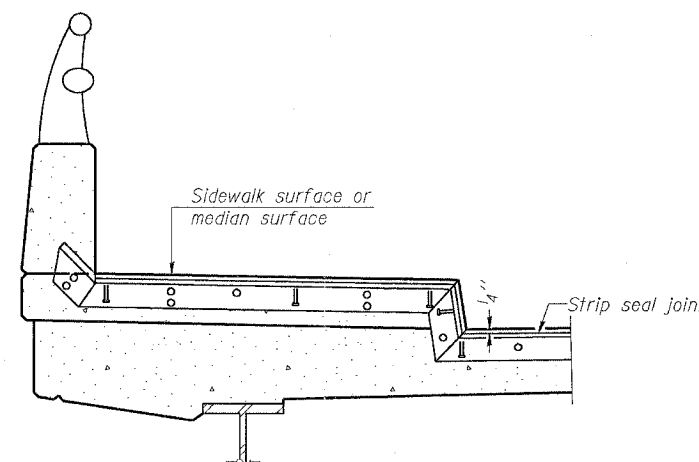


LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.



AT CURB, PARAPET, OR WALL



AT SIDEWALK OR MEDIAN*

* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF STRUCTURAL SERVICES
EJ-BJS	ENGINEER OF BRIDGES AND STRUCTURES

10-22-04

(Sheet 2 of 2)
BRIDGE JOINT SYSTEM - EXPANSION
(ALTERNATE-STRIP SEAL)
US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 7 SHEETS
2079	**	OGLE	14	12	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #64A85 16BR-M

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

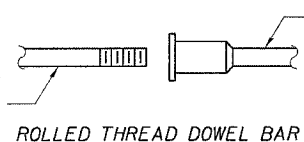
- ① Minimum Capacity = $1.25 \times f_y \times A_f$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_f$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_f = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

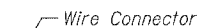
The diameter of this part is equal or larger than the diameter of bar spliced.



ROLLED THREAD DOWEL BAR



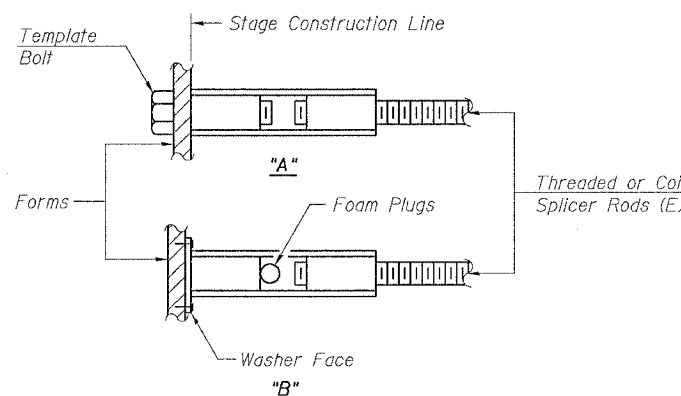
** ONE PIECE



WELDED SECTIONS

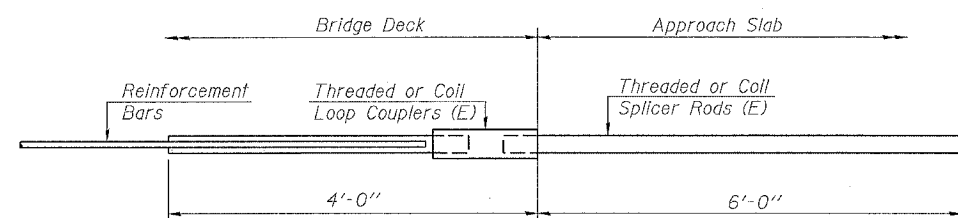
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



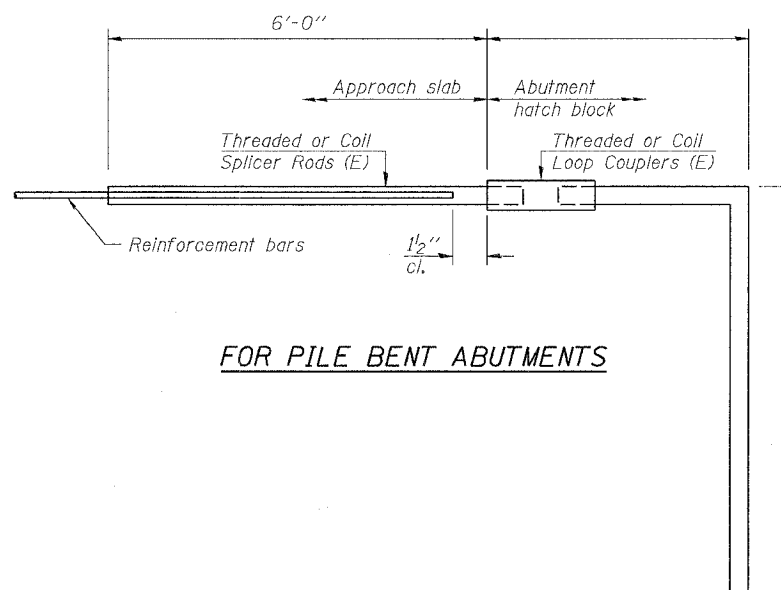
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



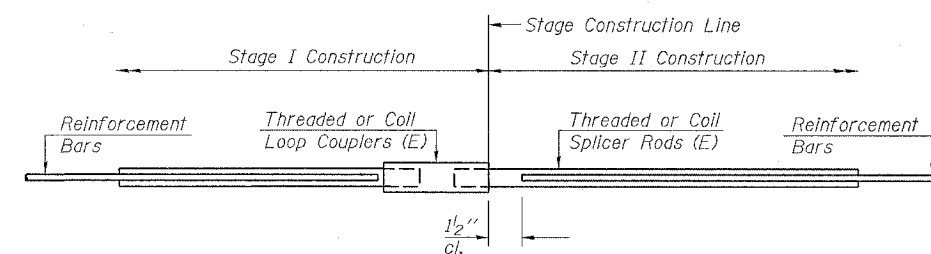
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#4	121	Deck
#6	6	Abutment
#5	3	Abutment

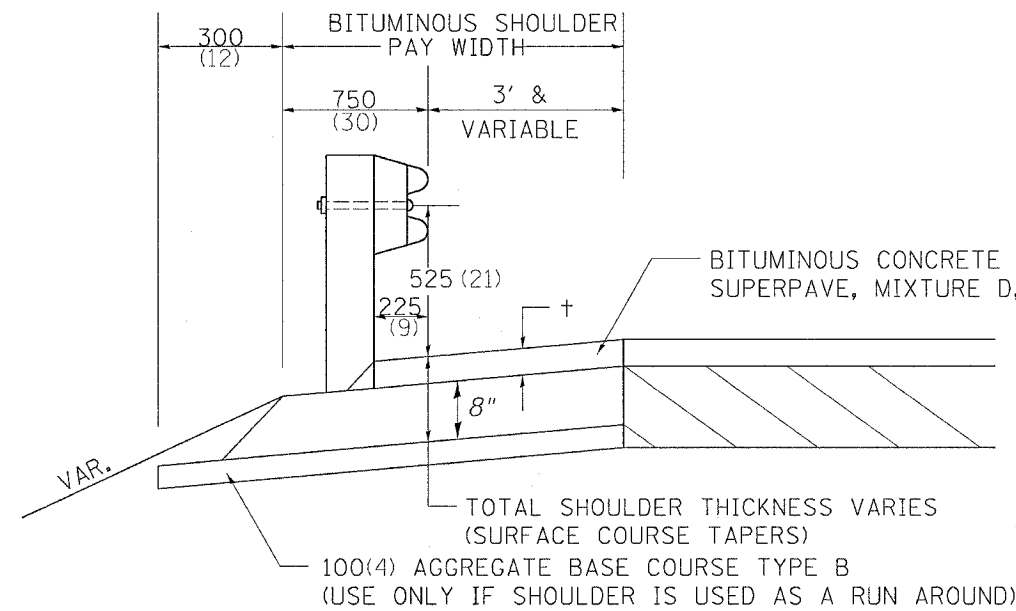
BAR SPLICER ASSEMBLY DETAILS

US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF BITUMINOUS SHOULDER AT GUARD RAIL



+ = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET (21) FROM THE FINISHED SURFACE.

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE METER (SQUARE YARD) FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

US 52 OVER ELKHORN CREEK
 FAS ROUTE 2079 (US 52)
 SECTION 16BR-M
 OGLE COUNTY
 STRUCTURE NUMBER 071-0070

DETAIL OF BITUMINOUS SHOULDER AT GUARD RAIL 23.4

REVISED 1-17-02

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-M	OGLE	14	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONCRETE CURB SPECIAL

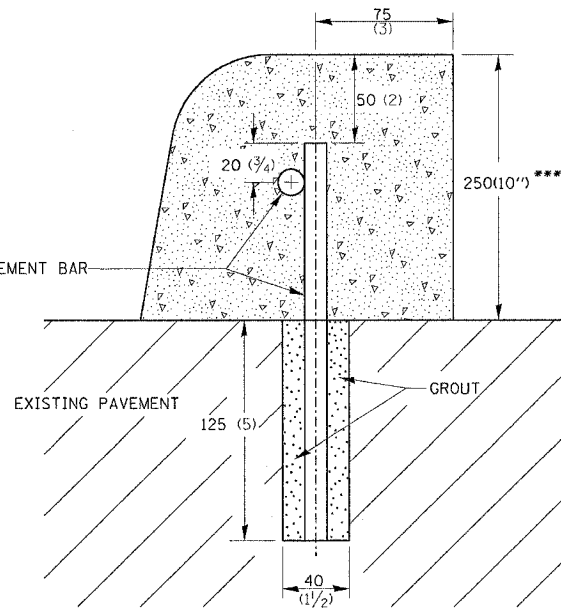
CONCRETE CURB SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

HOLES 40 (1 1/2) Ø AND 125 (5) DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE PAVEMENT AT 1.5M (5'-0") CENTERS. NO. 15 (NO. 4) REINFORCEMENT BARS 325 (13") LONG SHALL BE GROUDED IN THE HOLES AND A NO. 15 (NO. 4) REINFORCEMENT BAR SHALL BE INSTALLED LONGITUDINALLY IN THE CURB.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND REINFORCEMENT BARS IN THE CURB SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE METER (FOOT) FOR CONCRETE CURB SPECIAL.



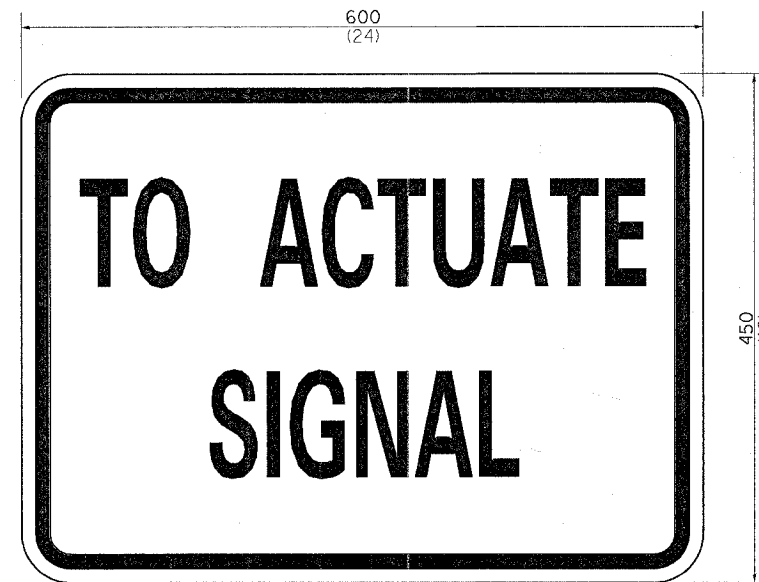
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

*** Curb Height shall be 10" to attain a ± 6" Curb when bridge approaches are overlaid with 4" ± of Bituminous Surface

CONCRETE CURB SPECIAL 11.4

REVISED 5-04-94

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)

100(4) CAPITAL LETTERS - BLACK

13(1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE B
ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

US 52 OVER ELKHORN CREEK
FAS ROUTE 2079 (US 52)
SECTION 16BR-M
OGLE COUNTY
STRUCTURE NUMBER 071-0070

STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

REVISED 8-7-90

PLOT DATE = Tue Feb 08 08:05:28 2005
FILE NAME = G:\BR\plans\Ogle County\0710070.dgn
PLOT SCALE = 50.0000 / 1 IN.
REFERENCE = SHEET