

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 72 (I-72)
D7 BRIDGE REPAIRS 2008-2

~~PROJECT~~
MACON COUNTY

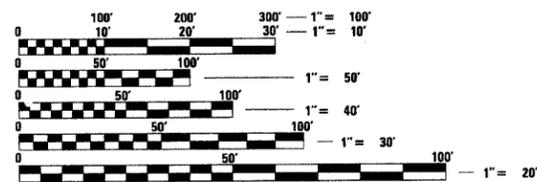
C-97-103-07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MACON	31	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74270		

• D7 BRIDGE REPAIRS 2008-2

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-97-063-07



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER
PROJECT MANAGER

CONTRACT NO. 74270

058-0066 2008 ADT = 3989
058-0067 2008 ADT = 3989
058-0076 2008 ADT = 3750



SN 058-0076

SN 058-0067

SN 058-0066



GROSS LENGTH = 2.40 MILES
NET LENGTH = 0.20 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 28 2007

Christine M. Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 2008
Eric E. Harman
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007; THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS INDICATED ON THE CHECKSHEET; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED AROUND DECATUR ON I-72 MACON COUNTY. THE PROJECT INCLUDES THE STRUCTURE NUMBERS 058-0066 and 058-0067 ON EASTBOUND I-72 OVER THE WESTBOUND SPUR AND SOUTHBOUND FA-412 (US 51). THE PROJECT ALSO INCLUDES STRUCTURE NUMBER 058-0076 ON OAKLAND AVE OVER I-72.

THE WORK INCLUDED IN THIS PROJECT CONSISTS OF CONSTRUCTION OF PCC BASE COURSE WIDENING, REMOVAL OF THE EXISTING NON-ASBESTOS BITUMINOUS WEARING SURFACE AND WATERPROOFING MEMBRANE SYSTEM, REMOVAL OF THE EXISTING PREFORMED JOINT SEAL EXPANSION JOINTS AND REPLACING THEM WITH PREFORMED JOINT STRIP SEAL EXPANSION JOINTS, CONSTRUCTION OF THE WATERPROOFING MEMBRANE AND BITUMINOUS WEARING SURFACES, PAVEMENT STRIPING, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF WORK HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR WORK.

ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF THE RIGHT OF WAY. EXCAVATION AND DISPOSAL OF THE EXCAVATED MATERIAL WILL BE INCLUDED IN THE CONTRACT PRICE FOR PCC BASE CORSE WIDENING, 10".

THE TOTAL QUANTITY OF POLYUREA PAVEMENT MARKING TYPE I - LINE 4 INCH CONSISTS OF:

STR#	YELLOW FT	WHITE FT
058-0066	233	233
058-0067	370	370

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4 INCH CONSISTS OF:

STR#	YELLOW FT	WHITE FT
058-0076	529	528

THE REFLECTIVE LENSE OF ALL RAISED REFLECTIVE MARKERS LOCATED BETWEEN THE START OF TAPER AND THE ABUTMENT OF THE FIRST STRUCTURE SHALL BE REMOVED PRIOR TO STAGE I CONSTRUCTION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL. REPLACEMENT OF THE DIRECTIONAL WHITE REFLECTORS AT THE COMPLETION OF STAGE II WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR REPLACEMENT REFLECTOR.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS CONCRETE	112	LBS/SQ YD - IN
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THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:
STRUCTURE 026-0076

MIXTURE USE:	ASPHALT WEARING SURFACE
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N70
PG GRADE:	SBS PG 64-22
RAP %:	0%
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 70
MIXTURE COMPOSITION:	1L-9.5
FRICTION AGGREGATE:	MIXTURE C

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATION AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF 96 HOURS ADVANCE NOTICE IS REQUESTED.

INDEX OF SHEETS

SHEET NO

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	SCHEDULE OF QUANTITIES
5	OVERVIEW OF 058-0066 & 058-0067
6	BASE COURSE WIDENING 058-0067
7-10	STAGE CONSTRUCTION 058-0066 & 058-0067
11-18	BRIDGE PLAN AND DETAILS 058-0066
19-26	BRIDGE PLAN AND DETAILS 058-0067
27-31	BRIDGE PLAN AND DETAILS 058-0076

LIST OF HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-02	OFF-ROAD OPERATIONS, 2L 2W, 15' TO 24" AWAY, SPEEDS > 45 MPH
701011-01	OFF-ROAD MOVING OPERATIONS, 2L 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701400-02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-04	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-04	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAYTIME ONLY
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS
BLR21-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

FILE NAME :	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE#	DATE - -----	REVISED - ---			SCALE: 20	SHEET NO. --- OF --- SHEETS	STA. ----- TO STA. -----	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			100% STATE SFTY-4A	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	058-0066	058-0067	058-0076
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SO YD	102		102	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	66			66
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	778			778
44004250	PAVED SHOULDER REMOVAL	SO YD	102		102	
50102400	CONCRETE REMOVAL	CU YD	52.3	24.6	27.7	
50157300	PROTECTIVE SHIELD	SO YD	300			300
50300255	CONCRETE SUPERSTRUCTURE	CU YD	52.3	24.6	27.7	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7920	3500	4420	
50800515	BAR SPLICERS	EACH	62	28	34	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	294	154	140	
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.50
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1		1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CALDA	4	2	2	
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1			1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	15650	7380	8270	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2567	1218	1349	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	825	350	475	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	825	350	475	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1057			1057
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1206	466	740	
78300500	PAVEMENT MARKING REMOVAL	SO FT	358	114	244	
X0322050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	13	13		
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	162	46	87	29
X7010820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	L SUM	1	0.5	0.5	
X7012615	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	3	1	1	1
XX005494	WATERPROOFING MEMBRANE SYSTEM (SPECIAL)	SO YD	778			778
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	9			9
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	35			35
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	108			108
Z0021400	EXPANSION JOINT (SPECIAL)	FOOT	60			60
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1	
* 78100300	REPLACEMENT REFLECTOR	EACH	13	13		

* SPECIALTY ITEMS

Rev.

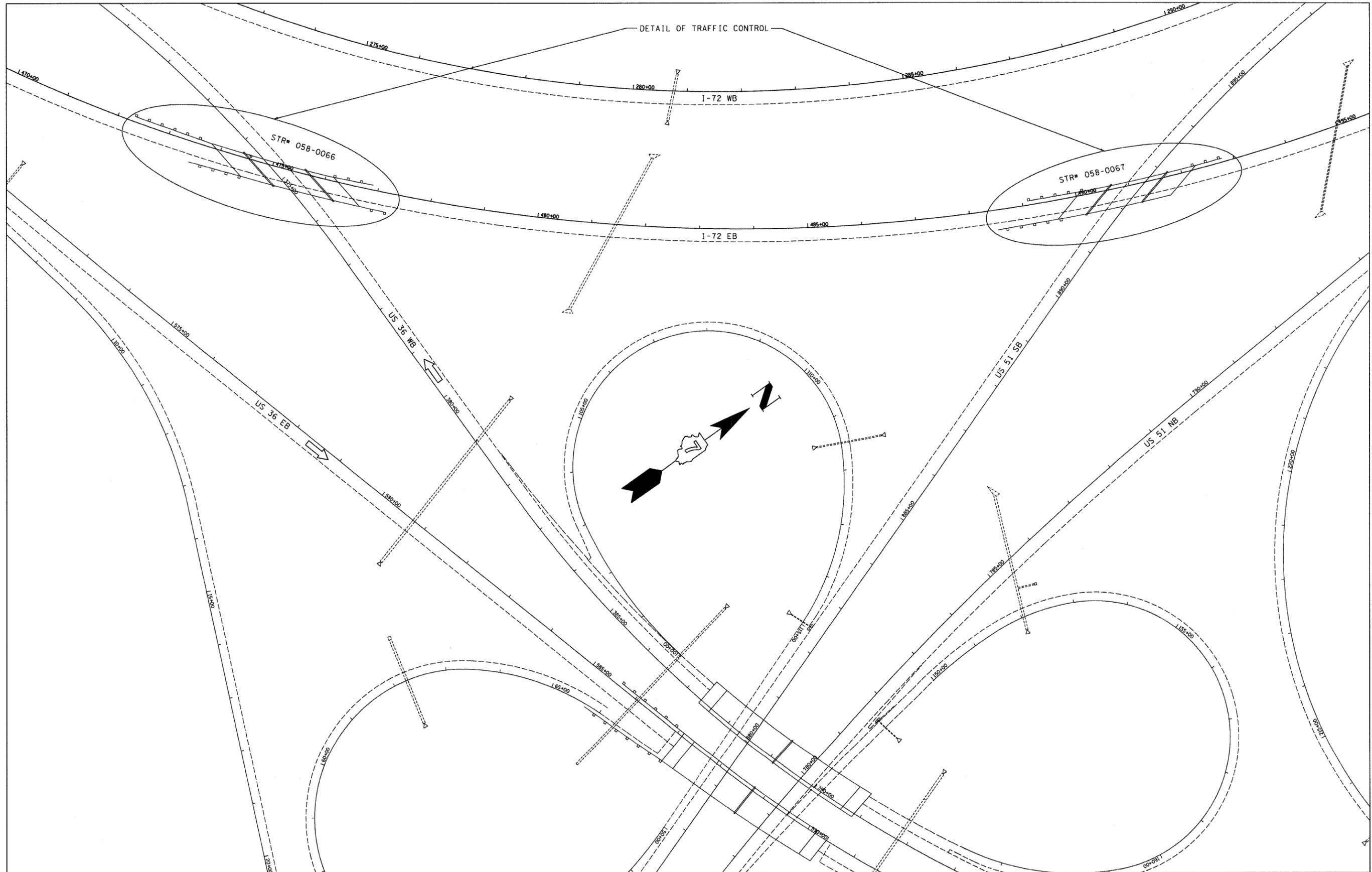
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		CHECKED - ---	REVISED - ---			CONTRACT NO. 74270				
		DATE - ---	REVISED - ---	SCALE: 20-----		SHEET NO. ___ OF ___ SHEETS		STA. ----- TO STA. -----		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT										

PAVEMENT MARKING SCHEDULE

STA. TO STA.	PAVEMENT MARKING REMOVAL SQ FT	TEMPORARY PAVEMENT MARKING - LINE 4" FOOT	WORK ZONE PAVEMENT MARKING REMOVAL SQ FT	POLYUREA PAVEMENT MARKING TYPE I - LINE 4" FOOT	PAINT PAVEMENT MARKING - LINE 4" FOOT	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL EACH	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT EACH
058-0066 463+50 to 474+00 473+92 to 476+25	113	7380	1218	466		13	13
058-0067 488+97 to 492+66	244	8270	1349	740			
058-0076 18+52 to 21+16					1057		

BRIDGE REPAIR SCHEDULE

STRUCTURE NUMBER	LENGTH FEET	CONCRETE REMOVAL CU YD	CONCRETE SUPERSTRUCTURE CU YD	REINFORCEMENT BARS, EPOXY COATED POUND	BAR SPLICERS EACH	PREFORMED JOINT STRIP SEAL FEET	STRUCTURAL REPAIR OF CONCRETE (DEPTH < OR = 5") SQ FT	DECK SLAB REPAIR (PART. DEPTH, TYPE I) SQ YD	DECK SLAB REPAIR (PART. DEPTH, TYPE II) SQ YD	DECK SLAB REPAIR (FULL DEPTH, TYPE I) SQ YD	WATERPROOFING MEMBRANE SYSTEM (SPECIAL) SQ YD	HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N70 TON	EXPANSION JOINT (SPECIAL) FEET
058-0066													
Stage I		13.6	13.6	1900		84.6							
Stage II		11.0	11.0	1600		69.4							
TOTAL	227.79	24.6	24.6	3500	28	154	46						
058-0067													
Stage I		15.3	15.3	2480		76.9							
Stage II		12.4	12.4	1940		63.1							
TOTAL	211.79	27.7	27.7	4420	34	140.0	07						
058-0076													
TOTAL	264.17						29	9	35	108	778	66	60
GRAND TOTAL	703.75	52.3	52.3	7920	62	278	162	9	35	108	778	66	60



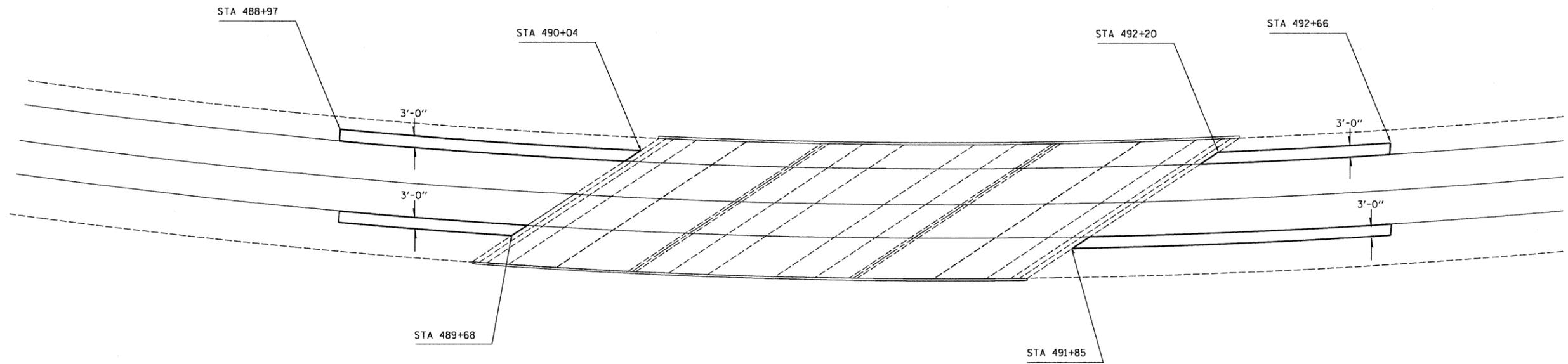
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

OVERVIEW OF STR# 058-0066 & 058-0067

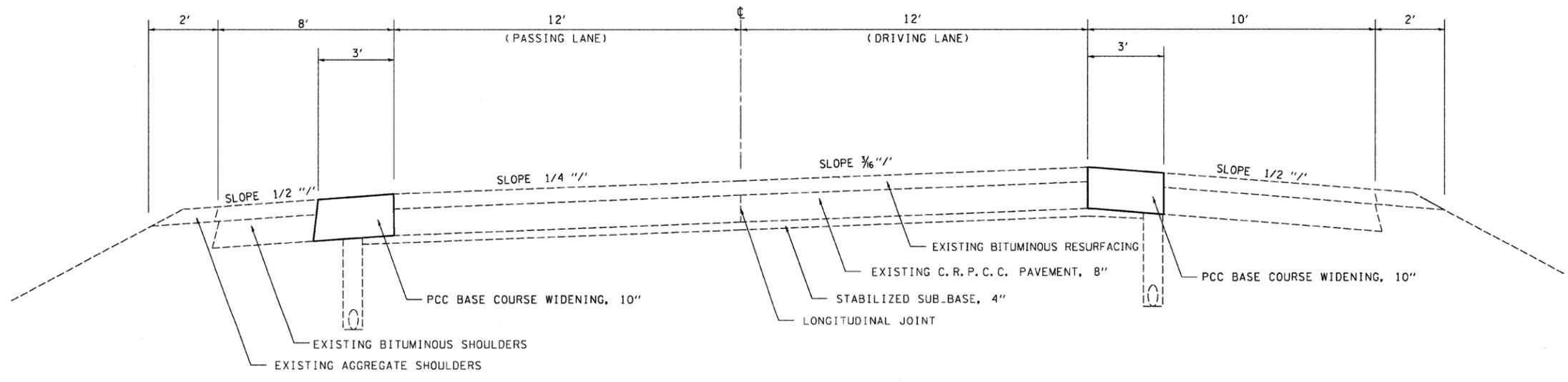
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74270				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

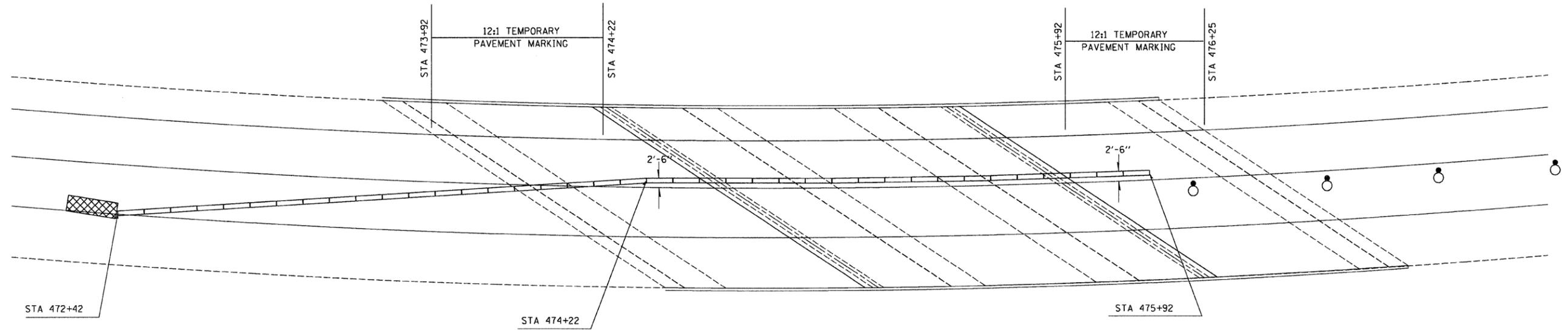


Base Course Widening

Station Left	488+97	to	490+04	=	35.7 SQ YDS
Station Right	488+97	to	489+68	=	23.7 SQ YDS
Station Left	492+20	to	492+66	=	15.3 SQ YDS
Station Right	491+85	to	492+66	=	27.3 SQ YDS



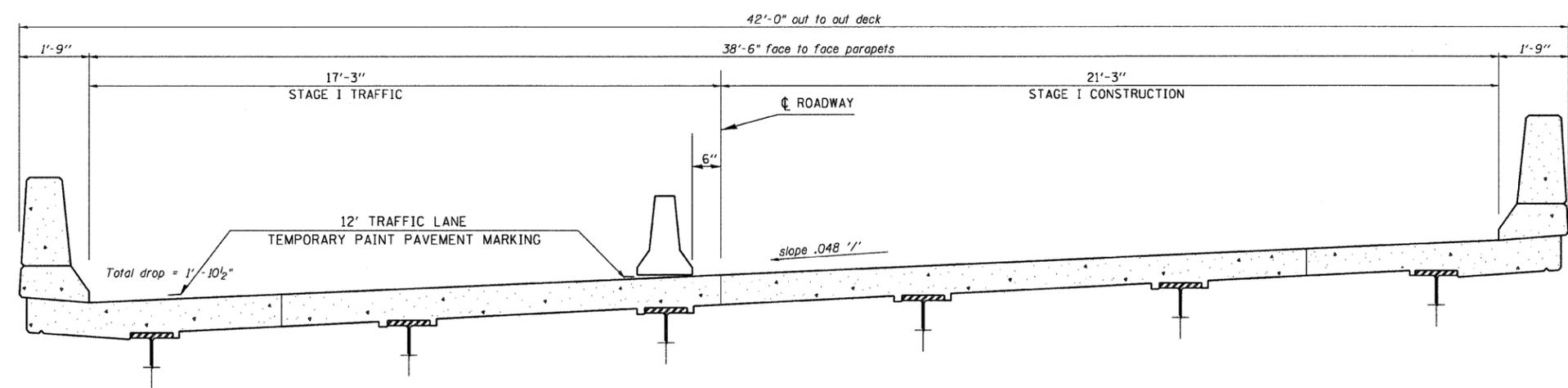
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PLOT DATE = *DATE*		DATE - -----	REVISED - ---					CONTRACT NO. 74270				



 IMPACT ATTENUATOR, TEMPORARY

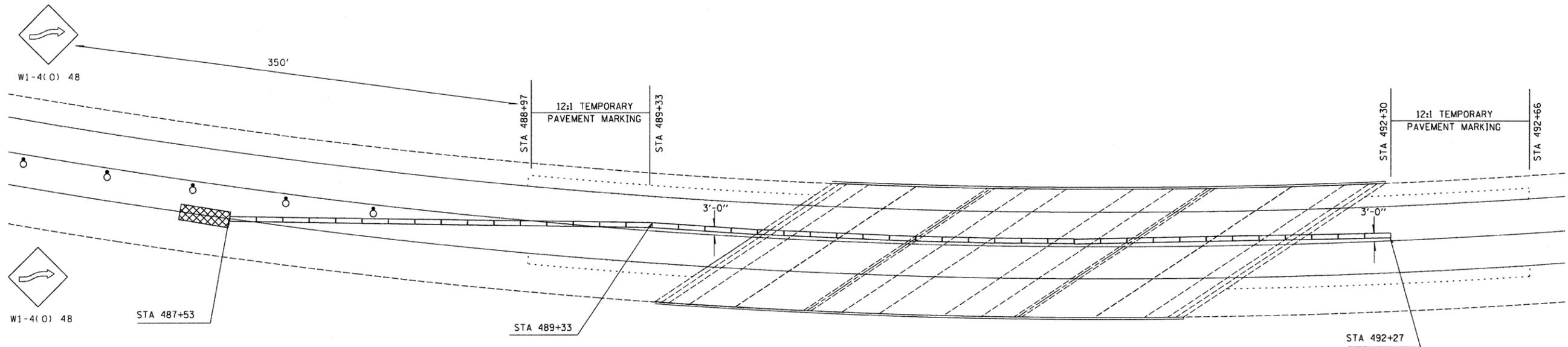
TEMPORARY CONCRETE BARRIER STA 472+42 to 475+92 = 350 FT
 IMPACT ATTENUATOR, TEMPORARY 1.0 EACH

 DRUM WITH STEADY BURNING LIGHT



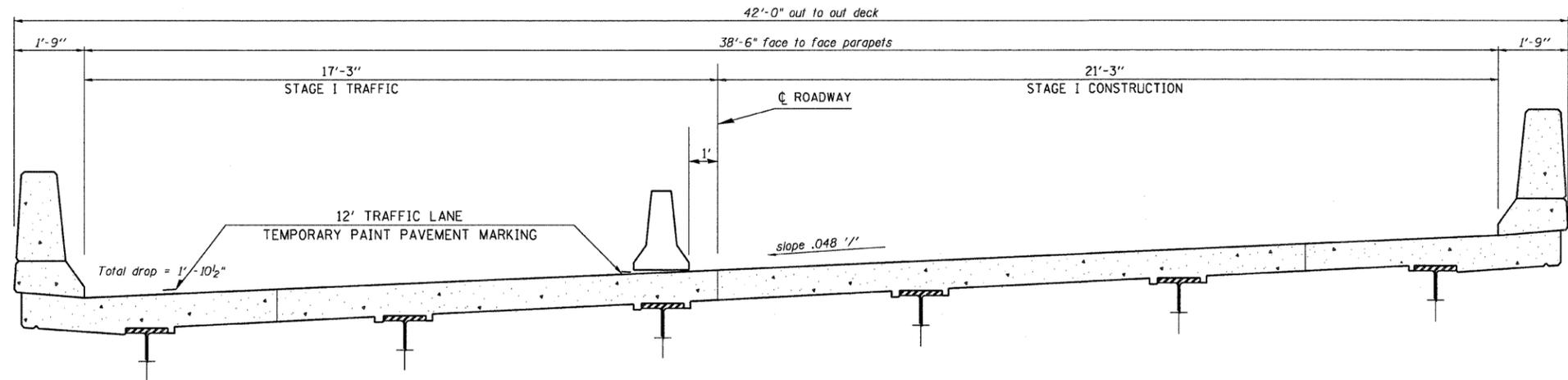
CROSS SECTION
 NEAR MIDSPAN
 (Looking West)

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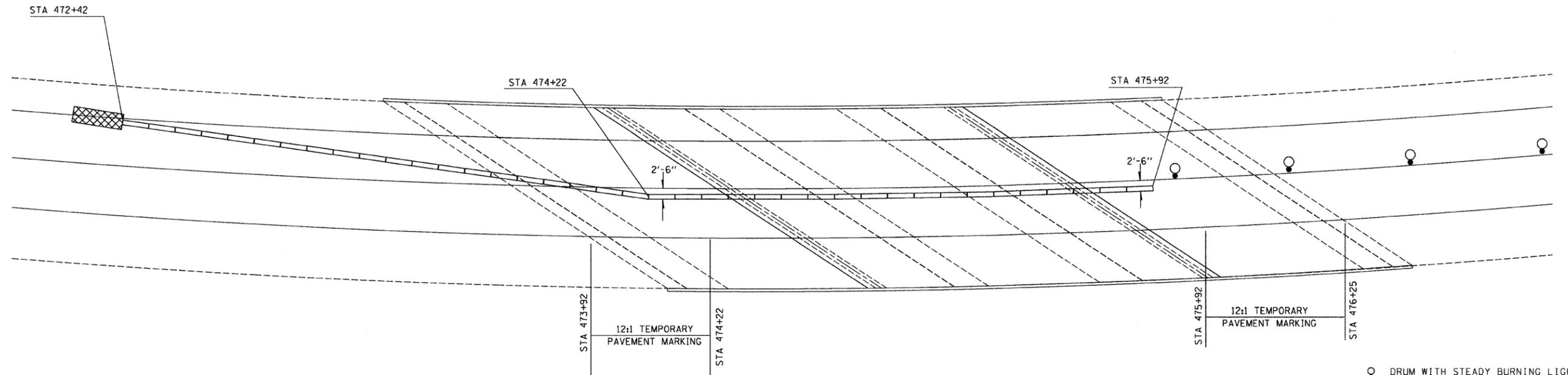
- ◉ DRUM WITH STEADY BURNING LIGHT
- ▨ IMPACT ATTENUATOR, TEMPORARY

TEMPORARY CONCRETE BARRIER STA 487+53 to 492+27 = 475 FT
 IMPACT ATTENUATOR, TEMPORARY 1.0 EACH

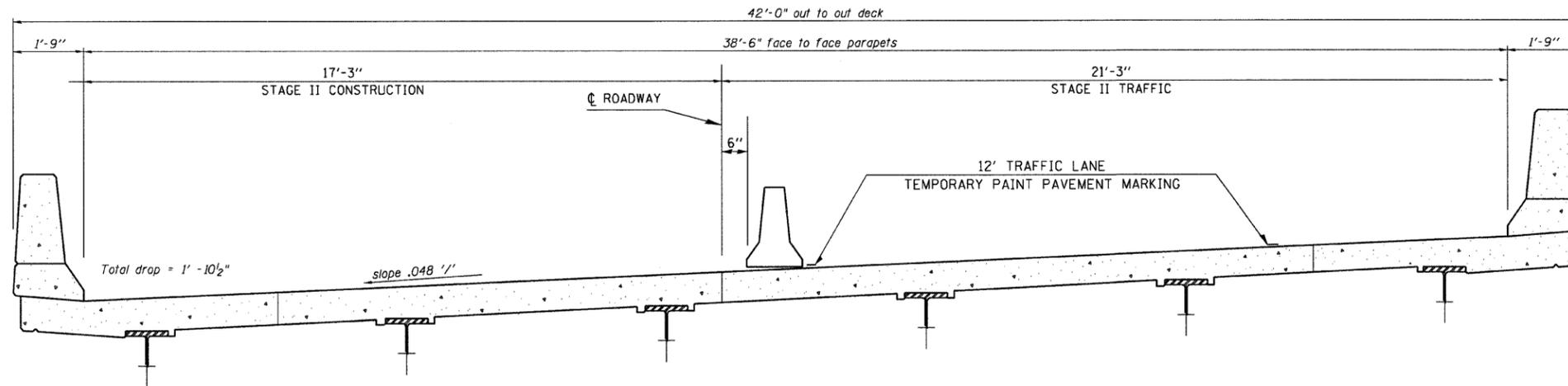


CROSS SECTION
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		DATE - ---	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					
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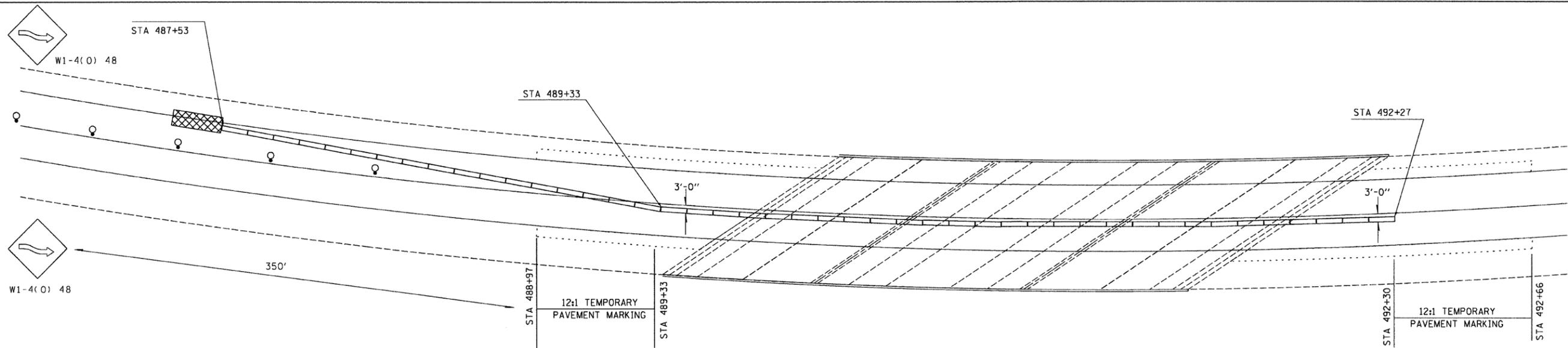


RELOCATE TEMPORARY CONCRETE BARRIER STA 472+42 to 475+92 = 350 FT
 RELOCATE IMPACT ATTENUATOR, TEMPORARY 1.0 EACH



CROSS SECTION
 NEAR MIDSPAN
 (Looking West)

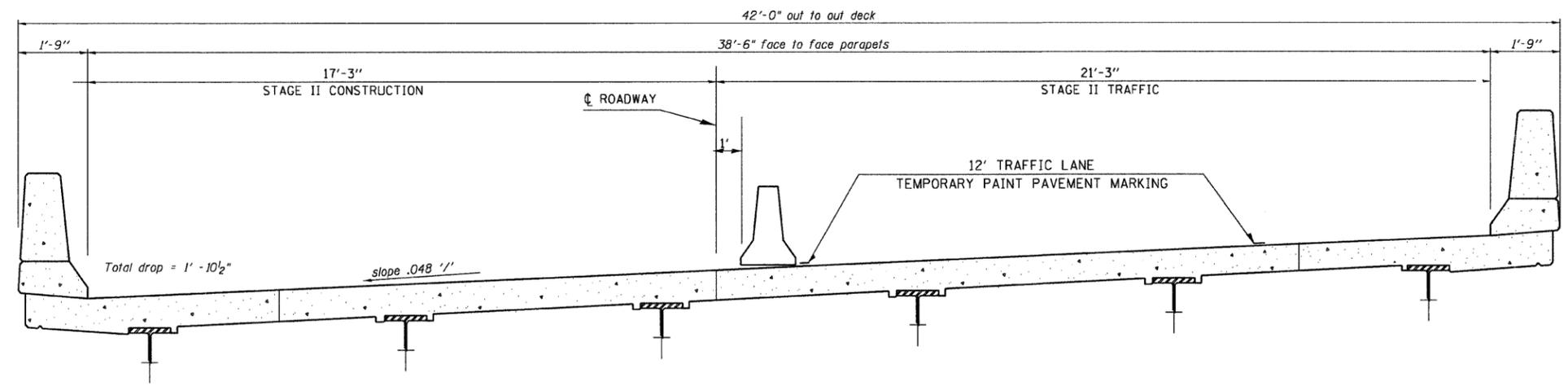
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	PLOT DATE = #DATE#	DATE - ---	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					



☉ DRUM WITH STEADY BURNING LIGHT

▨ IMPACT ATTENUATOR, TEMPORARY

RELOCATE TEMPORARY CONCRETE BARRIER STA 487+53 to 492+27 = 475 FT
 RELOCATE IMPACT ATTENUATOR, TEMPORARY 1.0 EACH



CROSS SECTION

NEAR MIDSPAN

(Looking West)

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION DETAILS 058-0067	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE - ---	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					
					SCALE: 20	SHEET NO. ___ OF ___ SHEETS		STA. _____ TO STA. _____			

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

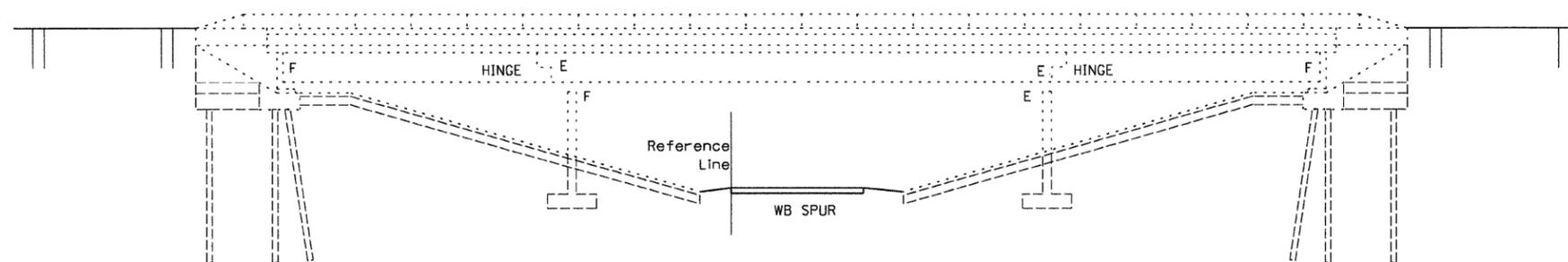
Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensations for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

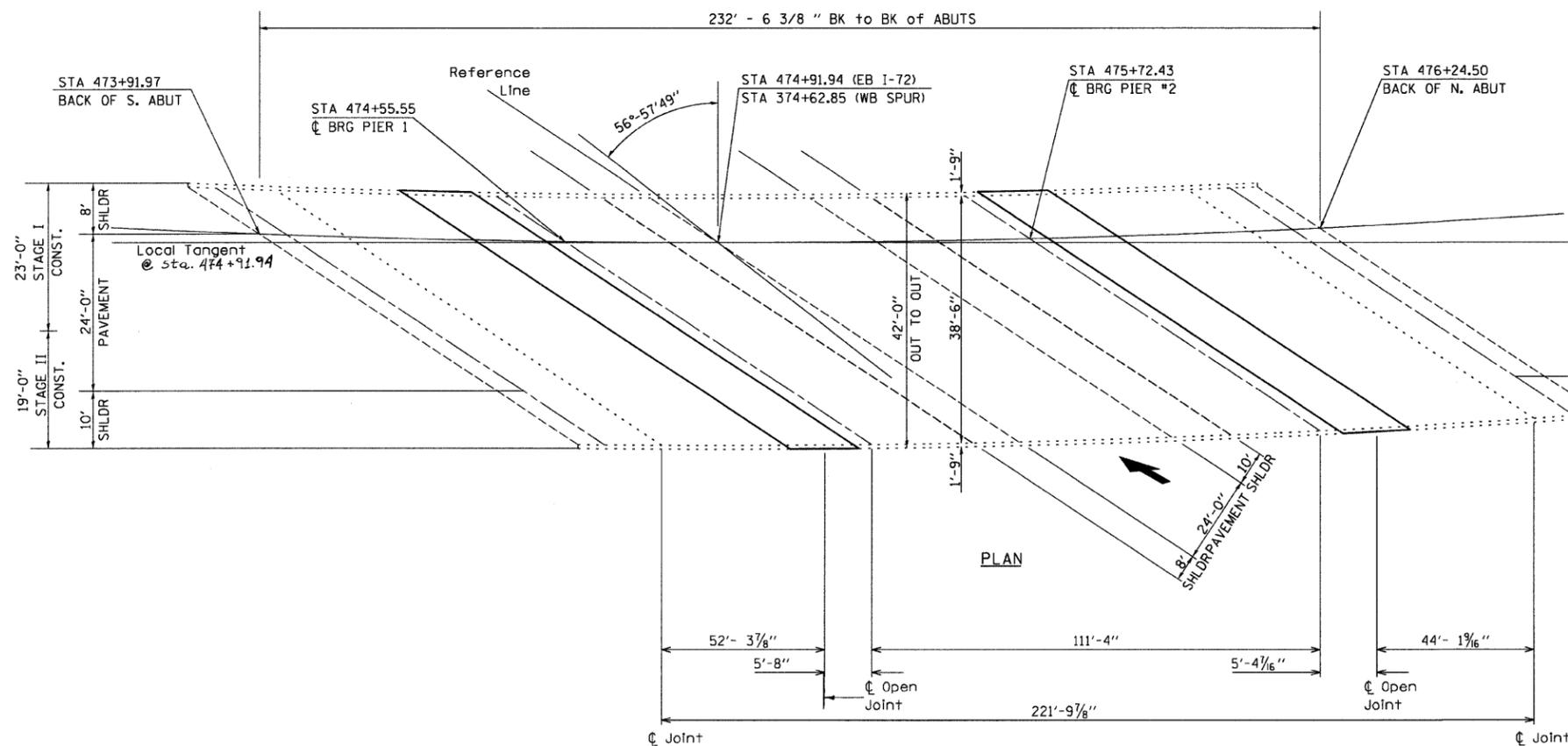
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included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

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, or other loose potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.



ELEVATION



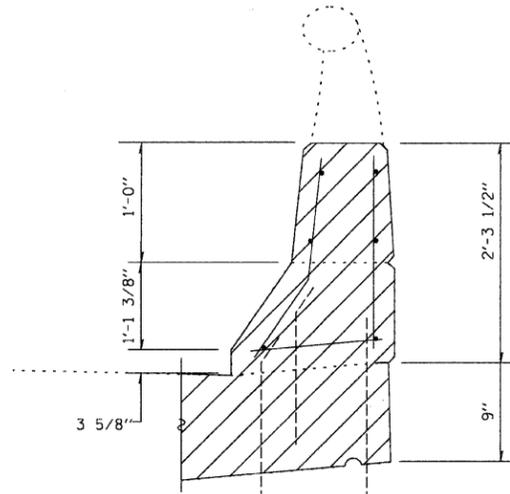
PLAN

TOTAL BILL OF MATERIALS

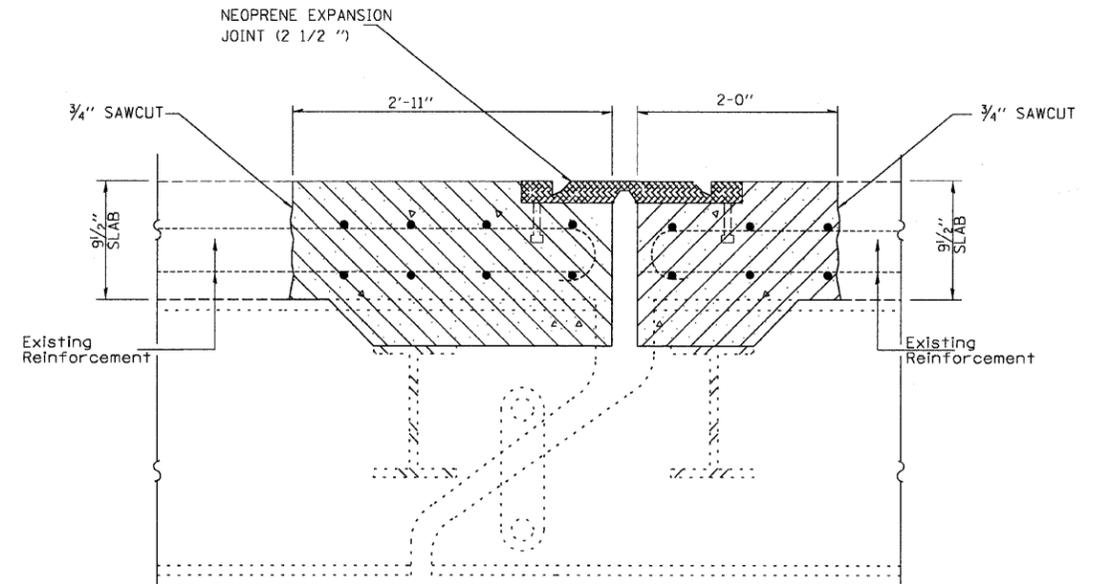
ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	CU YD	24.6
Concrete Superstructure	CU YD	24.6
Preformed Joint Strip Seal	FOOT	154
Reinforcement Bars, Epoxy Coated	POUND	3500
Bar Splicers	EACH	28
Structural Repair of Concrete (Depth <= 5")	SQ FT	46

RAIL POST SHALL BE REMOVED AND THEN RE-ERECTED AFTER PLACEMENT OF CONCRETE SUPERSTRUCTURE. NEW RAIL POST ANCHORAGE DEVICES WILL BE REQUIRED AT EACH LOCATION WHERE POSTS ARE CONNECTED TO NEW CONSTRUCTION. COST SHALL BE INCLUDED WITH CONCRETE SUPERSTRUCTURE. SEE DETAIL ON SHEET 18 OF 31.

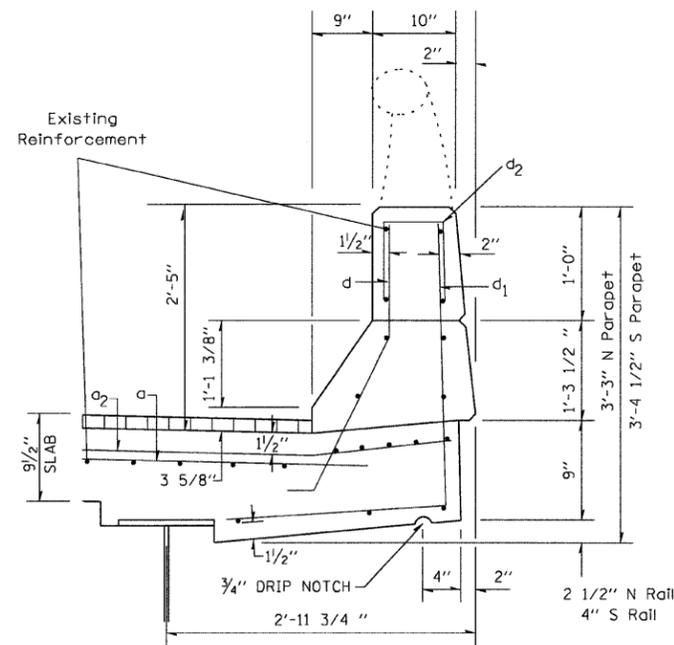
 CONCRETE REMOVAL (LIMITS ARE FROM OUT TO OUT OF DECK)



PARAPET DETAIL



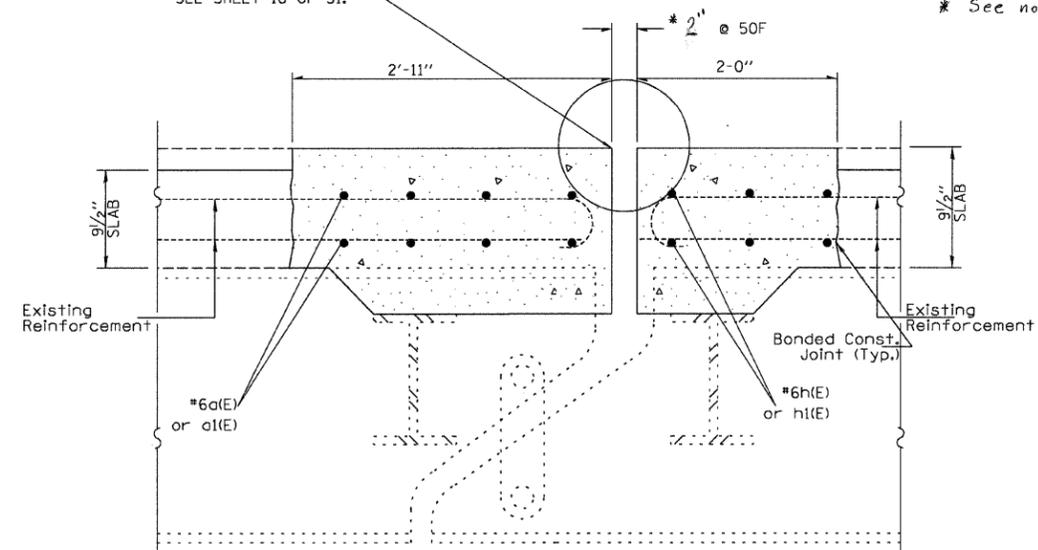
EXISTING EXPANSION JOINTS AT HINGES



PARAPET DETAIL

PREFORMED JOINT STRIP SEAL FOR DETAIL OF EXPANSION JOINT SEE SHEET 16 OF 31.

* See notes on sheet 16 of 31.



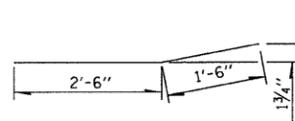
PROPOSED EXPANSION JOINTS AT HINGES
(Dimensions at Right Angles)

FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION JOINT & REBAR DETAILS 058-0066	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - ---	REVISED - ---			72	D7 BRIDGE REPAIRS 2008-2	MACON	31	12	
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 74270					
	PLOT DATE = #DATE#	DATE - ---	REVISED - ---			FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT					
SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____											

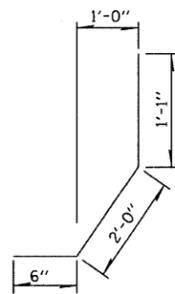
BAR LIST - PER JOINT - STR #026-0066

BAR	NUMBER OF BARS		TOTAL	SIZE	LENGTH	SHAPE
	STAGE I	STAGE II				
α(E)	28		28	6	20'-9"	—
α1(E)		14	14	6	34'-6"	—
α2(E)	7	7	14	6	4'-0"	—
d(E)	4	4	8	5	3'-7"	⌋
d1(E)	4	4	8	4	4'-7"	⌋
d2(E)	4	4	8	4	2'-1"	⌋
CONCRETE REMOVAL				CU YD	12.3	
REINFORCEMENT BARS (EPOXY COATED)				POUND	1750	
CONCRETE SUPERSTRUCTURE				CU YD	12.3	

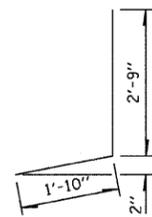
MINIMUM LAP #6 - 2' 7"



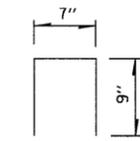
BAR α₂ (E)



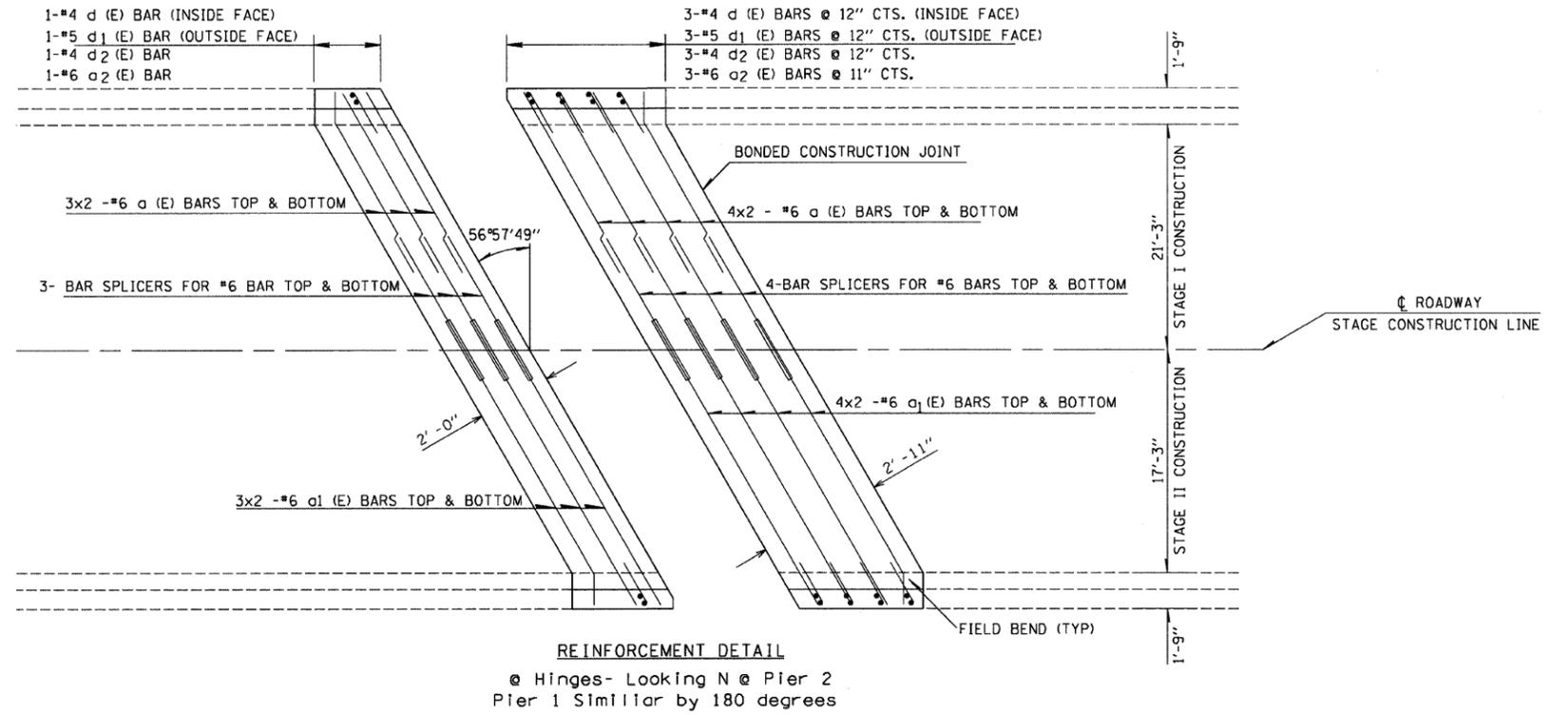
BAR d(E)



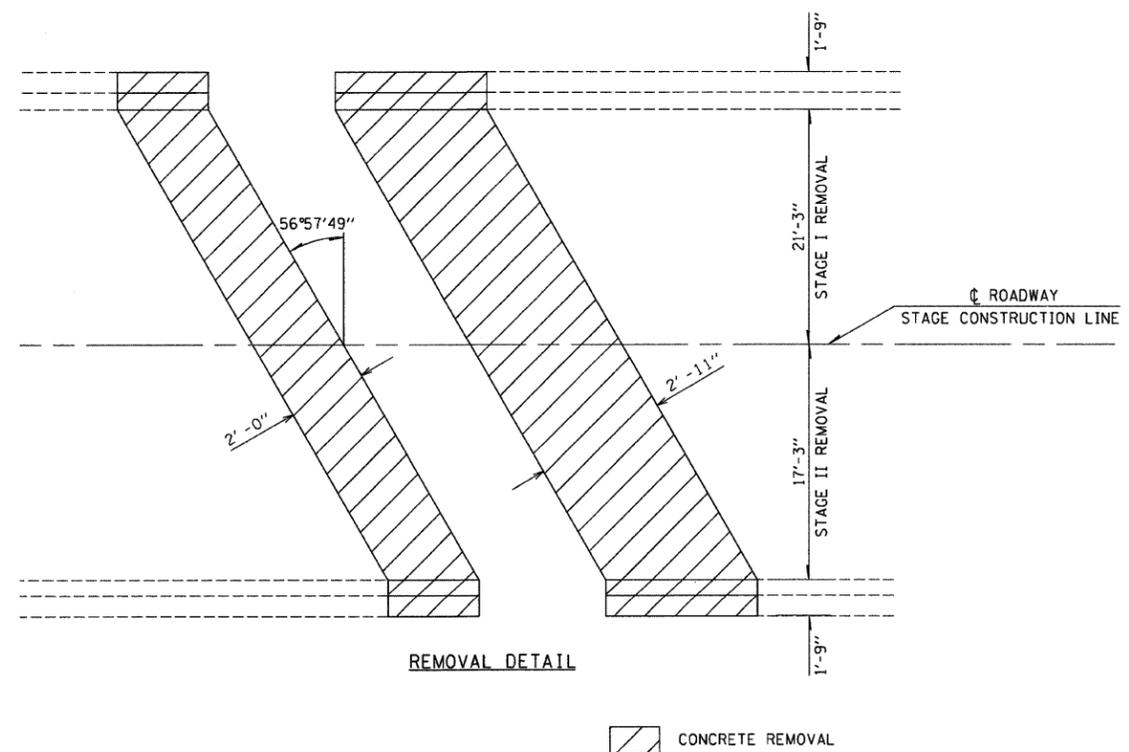
BAR d₁ (E)



BAR d₂ (E)

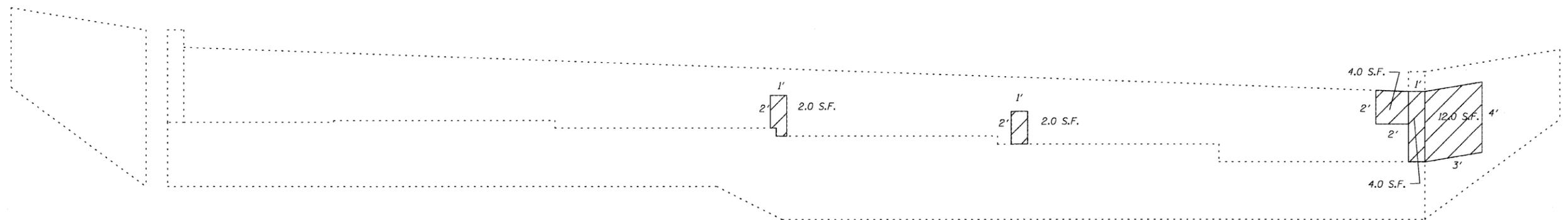


REINFORCEMENT DETAIL
 @ Hinges- Looking N @ Pier 2
 Pier 1 Similar by 180 degrees



REMOVAL DETAIL

CONCRETE REMOVAL

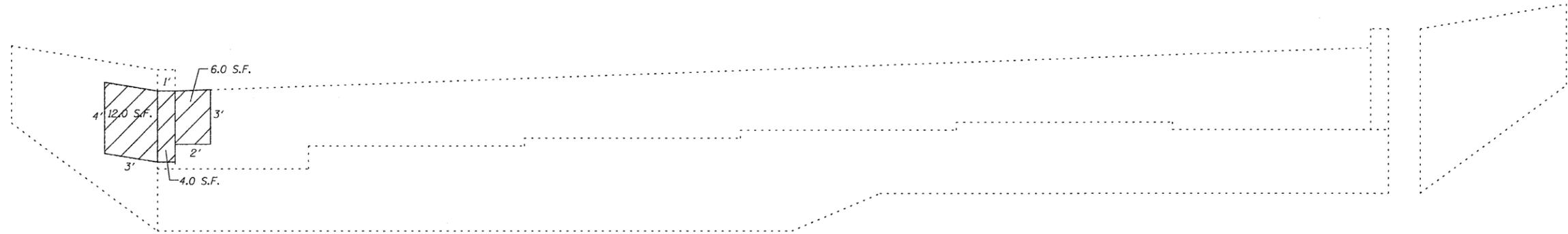


WEST ABUTMENT

NOTE: QUANTITIES ARE ESTIMATED. ACTUAL QUANTITIES TO BE DETERMINED BY THE RESIDENT ENGINEER.

 STRUCTURAL REPAIR OF CONCRETE <= 5"

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE 058-0066	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	DRAWN - ---	REVISED - ---			72	DT BRIDGE REPAIRS 2008-2	MACON	31	14
	PLOT DATE = *DATE*	CHECKED - ---	REVISED - ---			CONTRACT NO. 74270				
	DATE - -----	REVISED - ---	SCALE: _____			SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _ [ILLINOIS] FED. AID PROJECT		



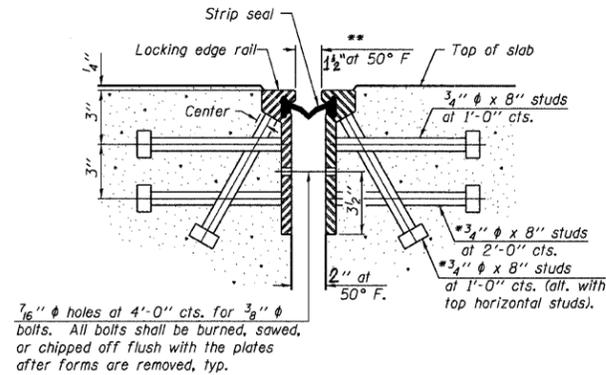
EAST ABUTMENT

NOTE: QUANTITIES ARE ESTIMATED. ACTUAL QUANTITIES TO BE DETERMINED BY THE RESIDENT ENGINEER.

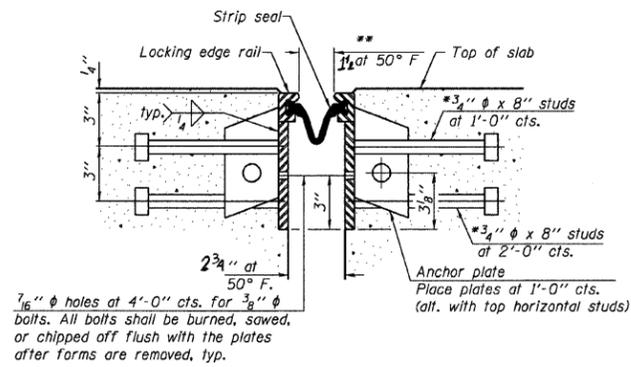
 STRUCTURAL REPAIR OF CONCRETE <= 5"

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE 058-0066	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL*		DRAWN - ---	REVISED - ---			72	DT BRIDGE REPAIRS 2008-2	MACON	31	15	
	PLOT SCALE = *SCALE*	CHECKED - ---	REVISED - ---			CONTRACT NO. 74270					
	PLOT DATE = *DATE*	DATE - -----	REVISED - ---			FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					
				SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____							

*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
 **When joint is fixed, dimension is set at 1 1/2".

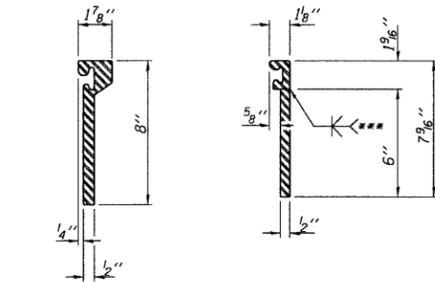


SECTION THRU ROLLED RAIL JOINT

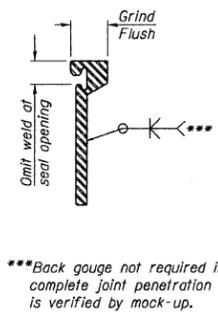


SECTION THRU WELDED RAIL JOINT

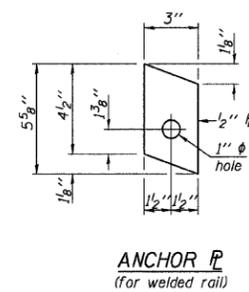
Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 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 rolled rail expansion joint. If the Contractor elects to use the welded rail expansion 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.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



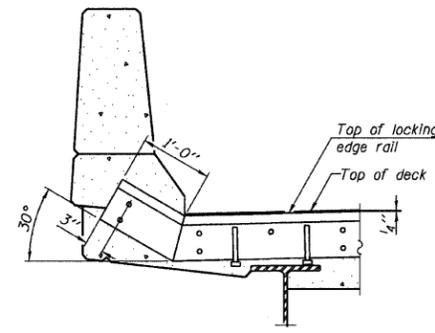
ROLLED (EXTRUDED) RAIL WELDED RAIL



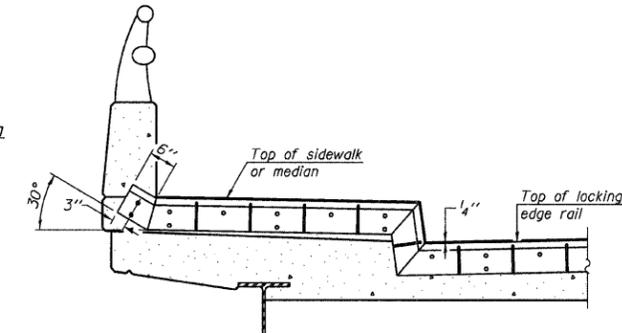
LOCKING EDGE RAIL SPLICE
 The inside of the locking edge rail groove shall be free of weld residue.



ANCHOR PLATE (for welded rail)



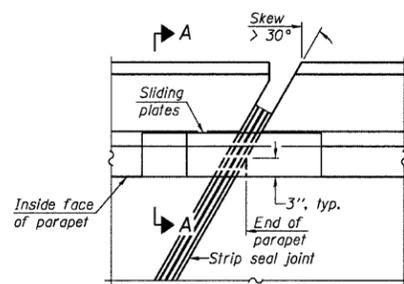
AT PARAPET



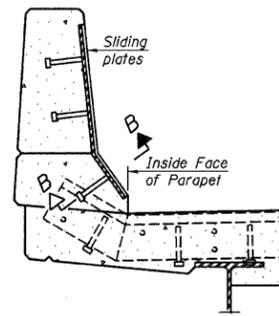
AT SIDEWALK OR MEDIAN

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

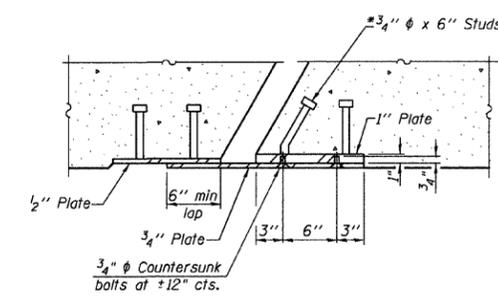
LOCKING EDGE RAILS



PLAN



SECTION A-A



SECTION B-B

TYPICAL END TREATMENTS

BILL OF MATERIAL

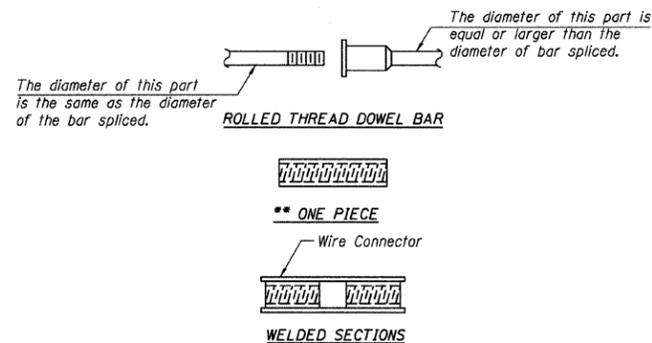
Item	Unit	Total
Preformed Joint Strip Seal	Foot	154

PREFORMED JOINT STRIP SEAL

EJ-SSJ

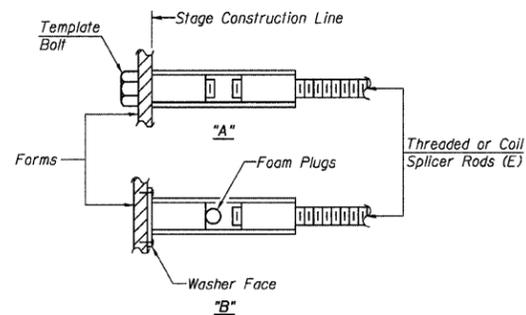
9-3-07

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EJ-SSJ 058-0066	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - ---	REVISED - ---			72	07 BRIDGE REPAIRS 2008-2	MACON	31	16	
PLOT SCALE = *SCALE*		CHECKED - ---	REVISED - ---			CONTRACT NO. 74270					
PLOT DATE = *DATE*		DATE - ---	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

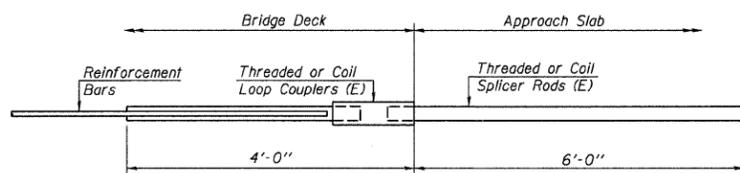
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

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:

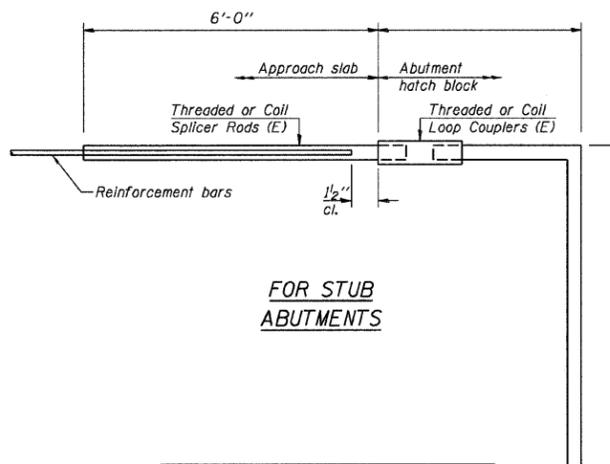
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_s$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_s$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_s = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



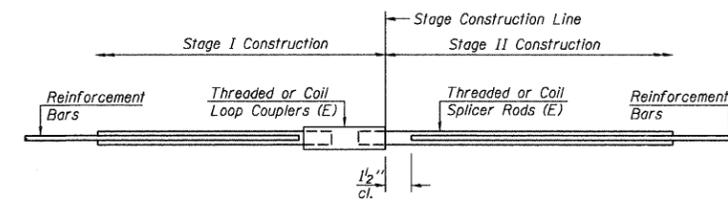
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =		



FOR STUB ABUTMENTS

Bar Splicer for #5 bar		
Min. Capacity =	23.0 kips - tension	
Min. Pull-out Strength =	12.3 kips - tension	
No. Required =		



STANDARD

Bar Size	No. Assemblies Required	Location
#6	28	05B-0066

BAR SPLICER ASSEMBLY DETAILS

BSD-1

11-1-06

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

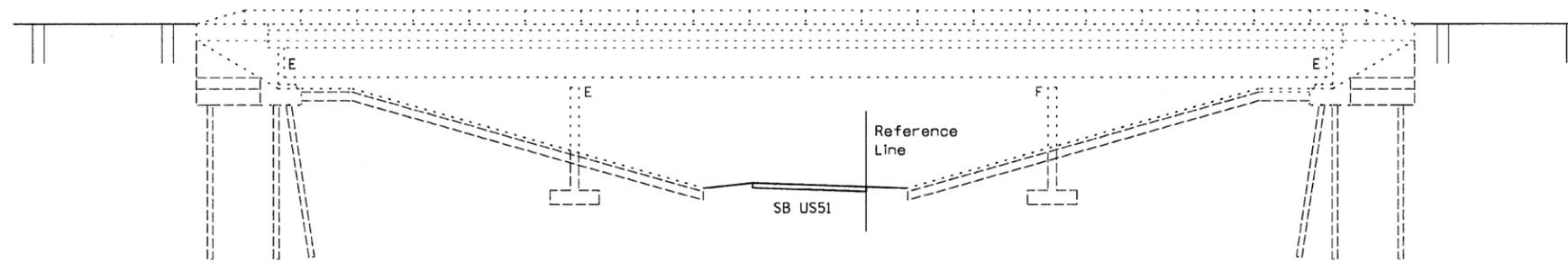
Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensations for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

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 operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in concrete removal).

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50 F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, or other loose potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

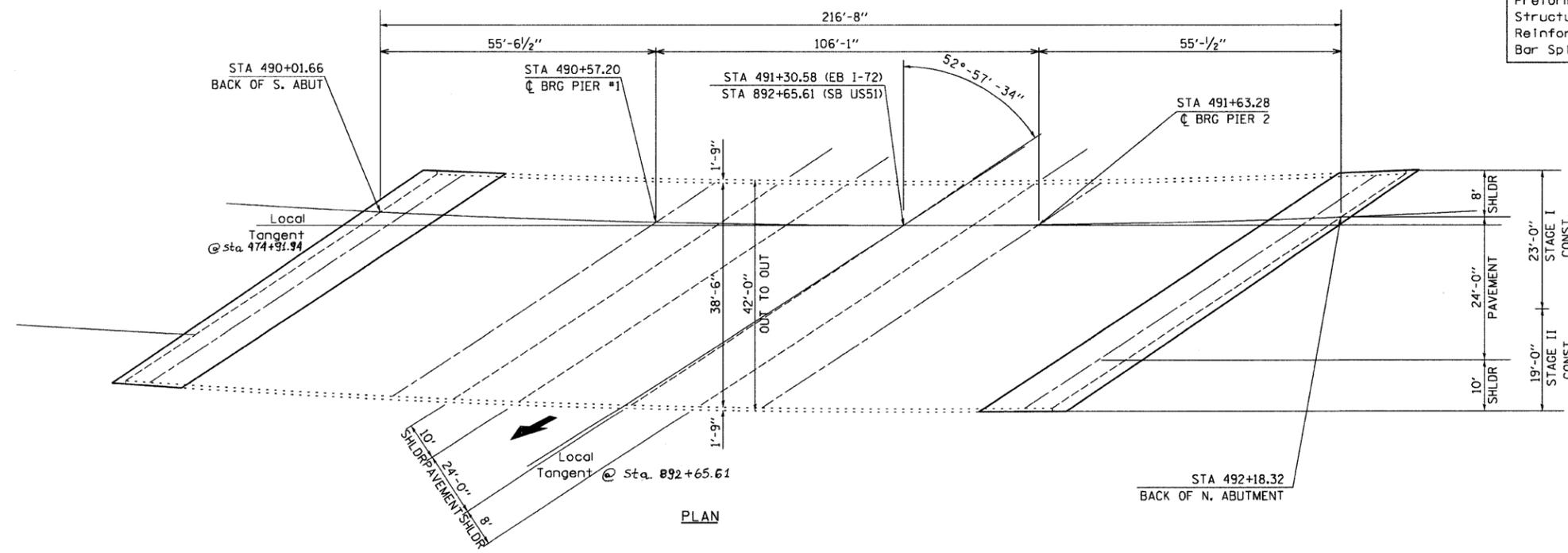


ELEVATION



TOTAL BILL OF MATERIALS

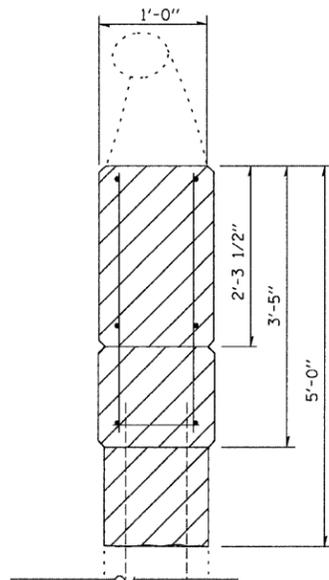
ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	CU YD	27.7
Concrete Superstructure	CU YD	27.7
Preformed Joint Strip Seal	FOOT	140
Structural Repair of Concrete (Depth <= 5")	SQ FT	69
Reinforcement Bars, Epoxy Coated	POUND	4420
Bar Splicers	EACH	34



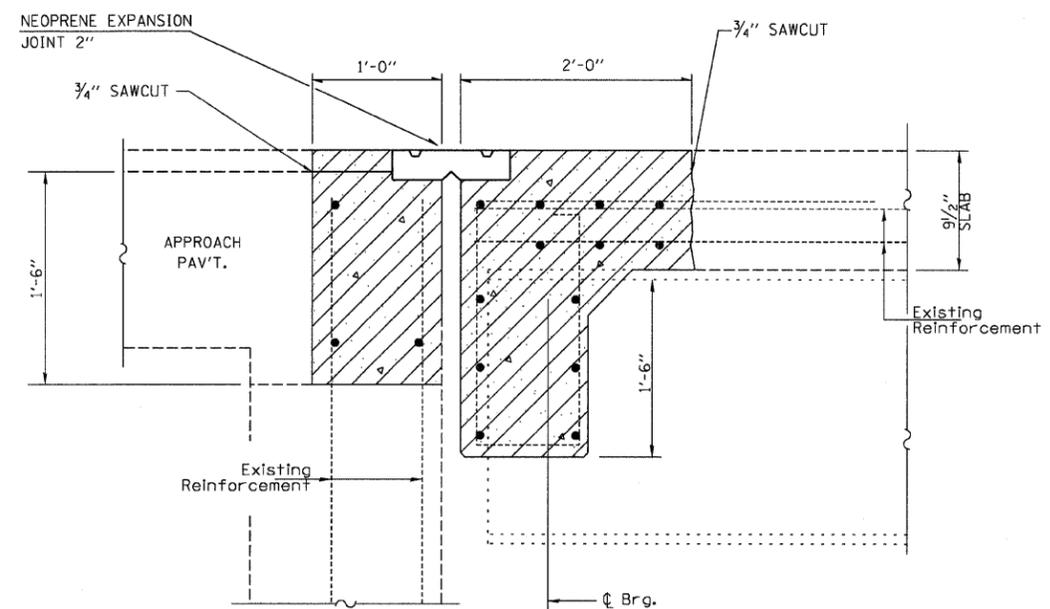
PLAN

RAIL POST SHALL BE REMOVED AND THEN RE-ERECTED AFTER PLACEMENT OF CONCRETE SUPERSTRUCTURE. NEW RAIL POST ANCHORAGE DEVICES WILL BE REQUIRED AT EACH LOCATION WHERE POSTS ARE CONNECTED TO NEW CONSTRUCTION. COST SHALL BE INCLUDED WITH CONCRETE SUPERSTRUCTURE. SEE DETAIL ON SHEET 26 OF 31.

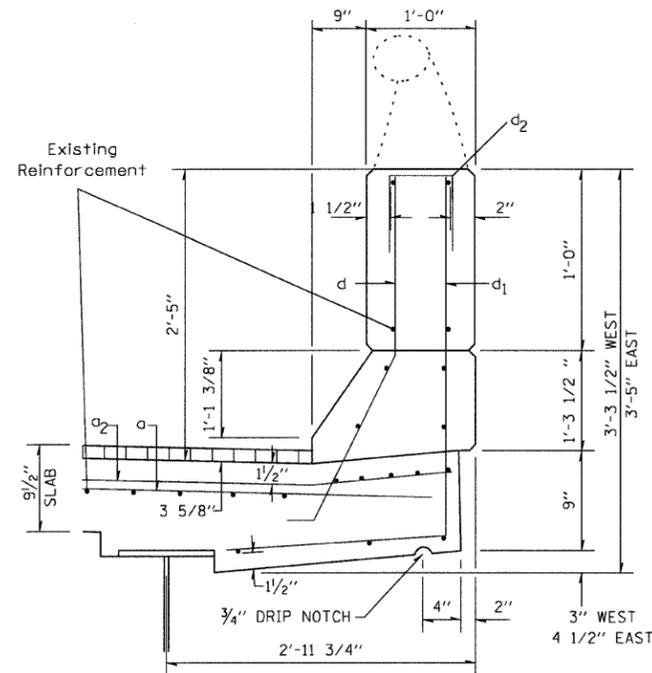
CONCRETE REMOVAL (LIMITS ARE FROM OUT TO OUT OF DECK)



WINGWALL DETAIL

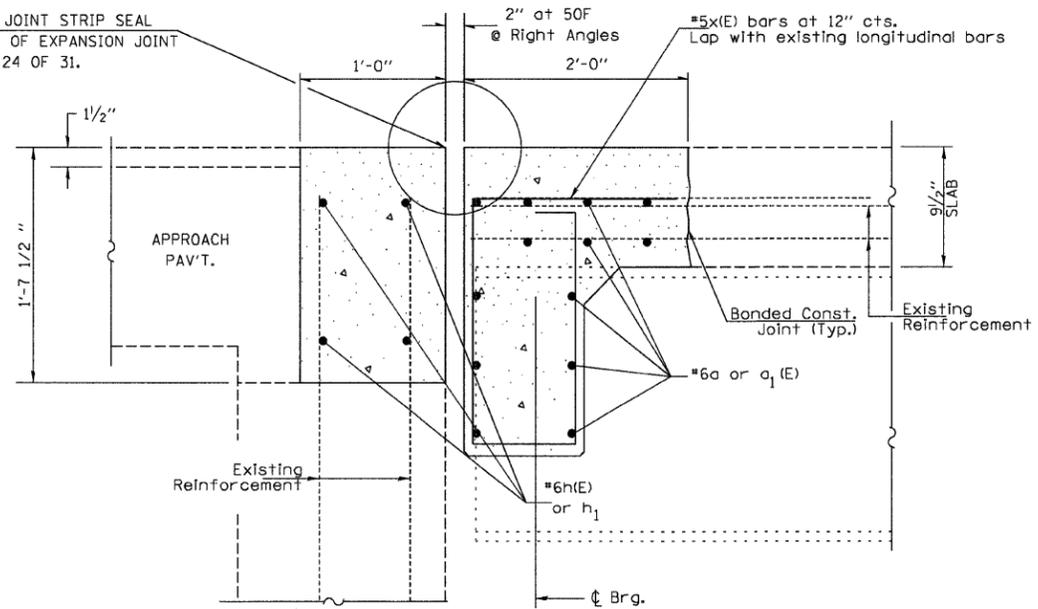


EXISTING EXPANSION JOINTS AT ABUTMENTS



PARAPET DETAIL

PREFORMED JOINT STRIP SEAL FOR DETAIL OF EXPANSION JOINT SEE SHEET 24 OF 31.



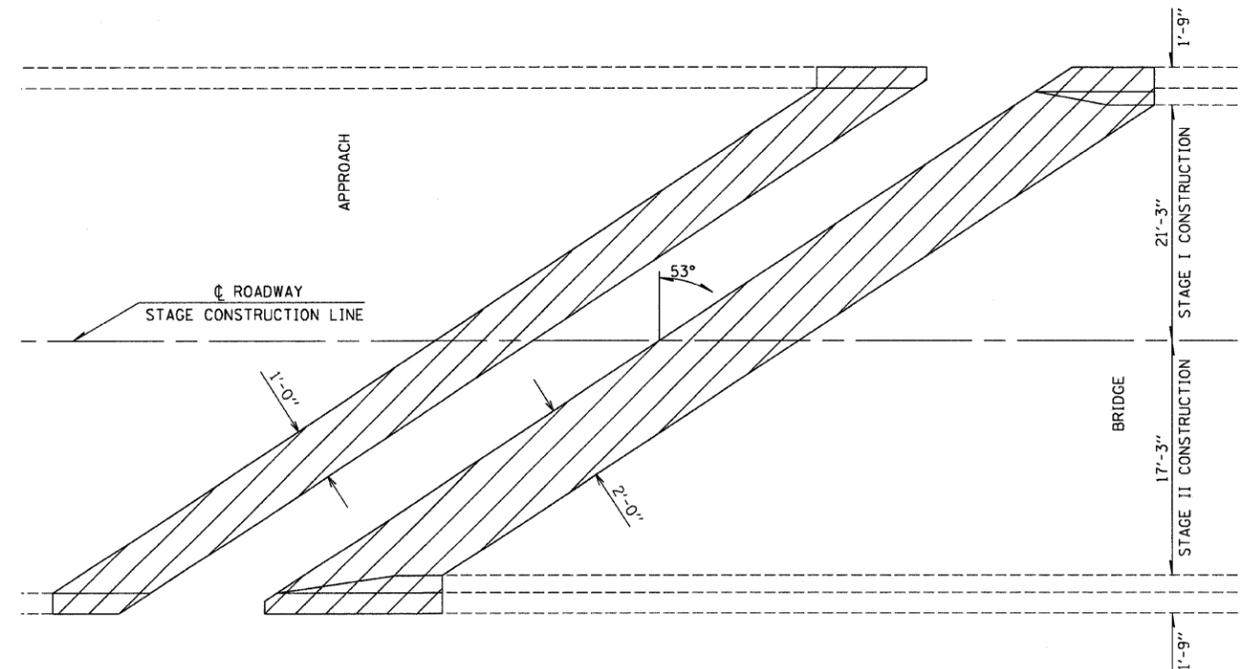
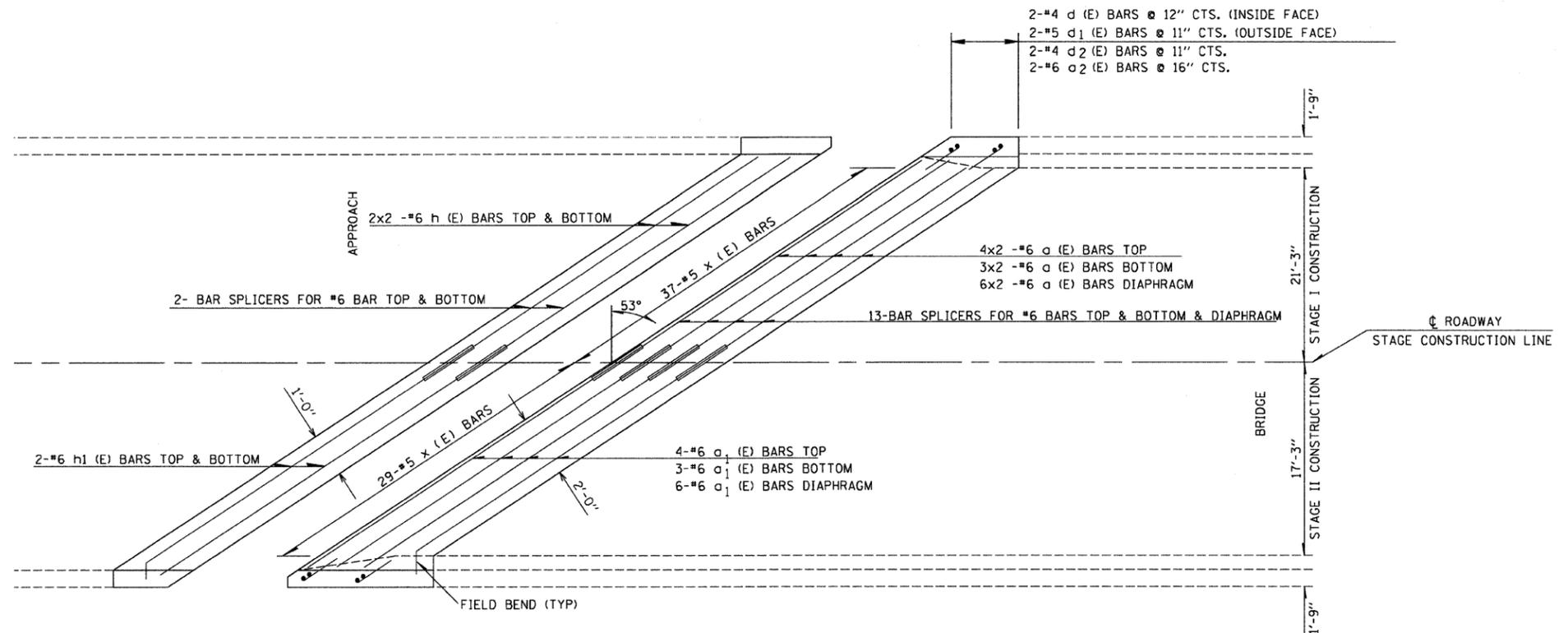
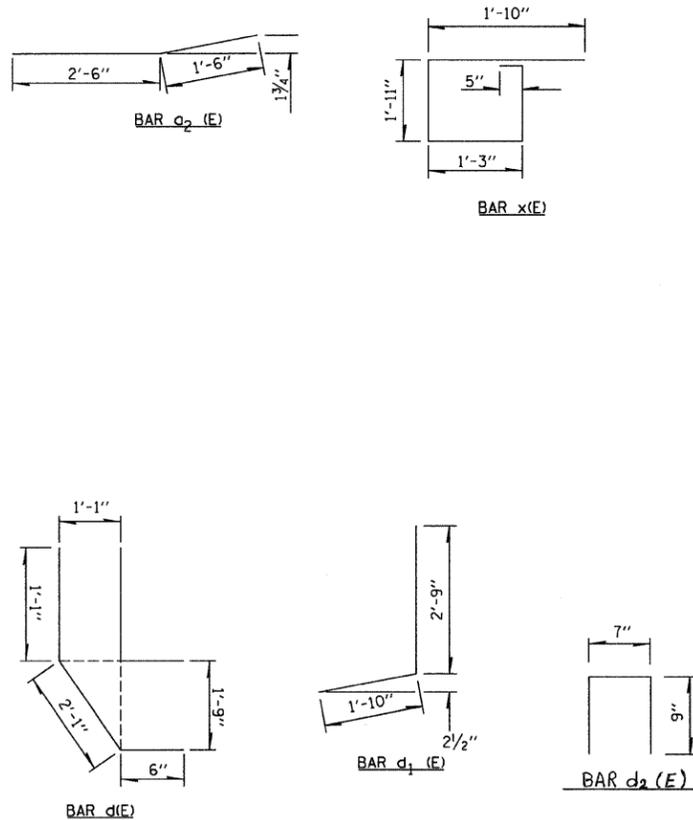
PROPOSED EXPANSION JOINTS AT ABUTMENTS

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION JOINT & REBAR DETAILS 058-0067			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL	PLOT SCALE = *SCALE*	DRAWN - ---	REVISED - ---					72	D7 BRIDGE REPAIRS 2008-2	MACON	31	20
	PLOT DATE = *DATE*	CHECKED - ---	REVISED - ---		SCALE: 20----- SHEET NO. ___ OF ___ SHEETS STA. ----- TO STA. -----			CONTRACT NO. 74270				
		DATE - -----	REVISED - ---		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

BAR LIST - PER ABUTMENT - STR #058-0067

BAR	NUMBER OF BARS		TOTAL	SIZE	LENGTH	SHAPE
	STAGE I	STAGE II				
a(E)	26		26	6	20' - 2"	—
a1(E)		13	13	6	31' - 2"	—
a2(E)	2	2	4	6	4' - 0"	—
h(E)	8		8	6	20' - 2"	—
h1(E)		4	4	6	31' - 2"	—
x(E)	37	29	66	4	7' - 4"	□
d(E)	2	2	4	5	3' - 11"	⌋
d1(E)	2	2	4	4	4' - 7"	J
d2(E)	2	2	4	4	2' - 1"	□
CONCRETE REMOVAL				CU YD	13.9	
REINFORCEMENT BARS (EPOXY COATED)				POUND	2210	
CONCRETE SUPERSTRUCTURE				CU YD	13.9	

MINIMUM LAP #6 - 2' 7"





WEST ABUTMENT

NOTE: QUANTITIES ARE ESTIMATED. ACTUAL QUANTITIES TO BE DETERMINED BY THE RESIDENT ENGINEER.

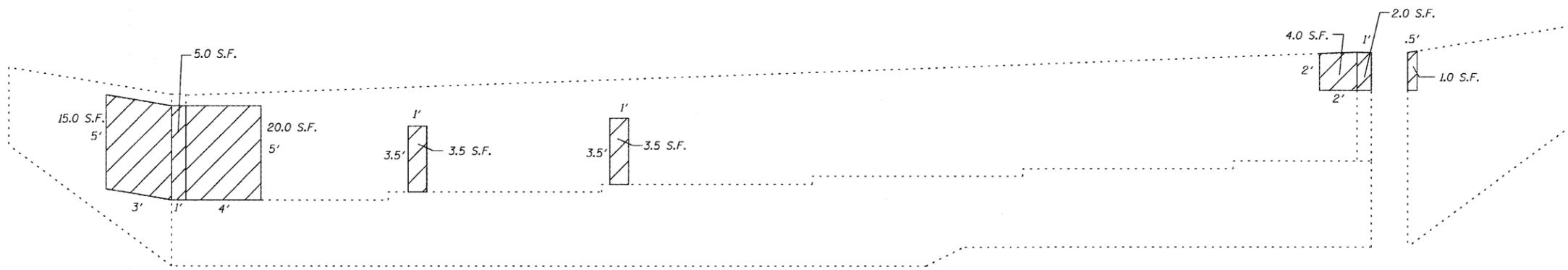
 STRUCTURAL REPAIR OF CONCRETE <= 5"

FILE NAME =	USER NAME = #USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE 058-0067	F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL*		DRAWN - ---	REVISED - ---			72	D7 BRIDGE REPAIRS 2008-2	MACON	31	22	
	PLOT SCALE = #SCALE*	CHECKED - ---	REVISED - ---			SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____					
	PLOT DATE = #DATE*	DATE - -----	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					
						CONTRACT NO. 74270					

058-0067



* REMOVE CORNER DUE TO
DETERIORATION AND FOR
EASIER PLACEMENT OF
STRIP SEAL JOINT.



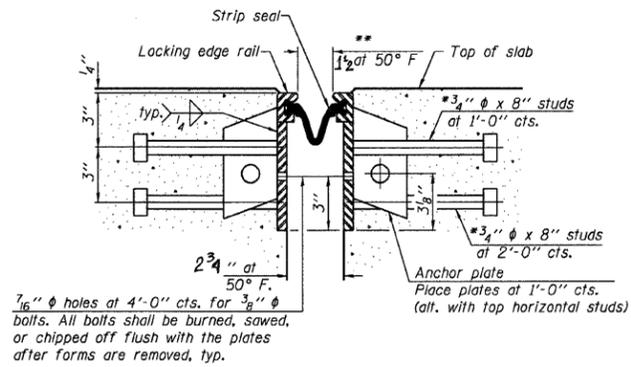
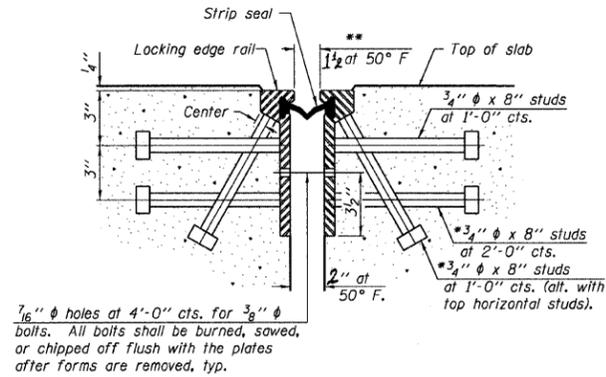
EAST ABUTMENT

NOTE: QUANTITIES ARE ESTIMATED. ACTUAL
QUANTITIES TO BE DETERMINED BY
THE RESIDENT ENGINEER.

 STRUCTURAL REPAIR OF CONCRETE <= 5"

FILE NAME =	USER NAME = *USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE 058-0067	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN - ---	REVISED - ---			72	D7 BRIDGE REPAIRS 2008-2	MACON	31	23	
	PLOT SCALE = *SCALE*	CHECKED - ---	REVISED - ---			SCALE: ----- SHEET NO. ___ OF ___ SHEETS STA. ----- TO STA. -----		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			
	PLOT DATE = *DATE*	DATE - -----	REVISED - ---			CONTRACT NO. 74270					

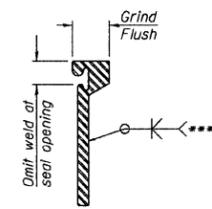
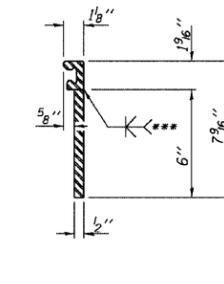
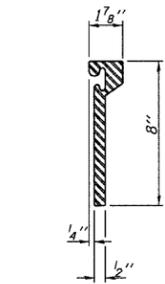
*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
 **When joint is fixed, dimension is set at 1 1/2".



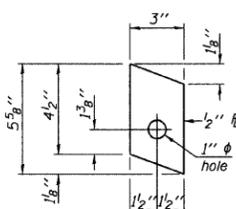
Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 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 rolled rail expansion joint. If the Contractor elects to use the welded rail expansion 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.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

SECTION THRU ROLLED RAIL JOINT

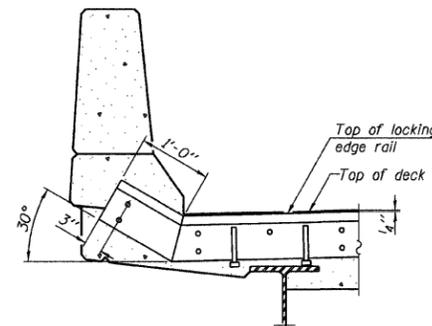
SECTION THRU WELDED RAIL JOINT



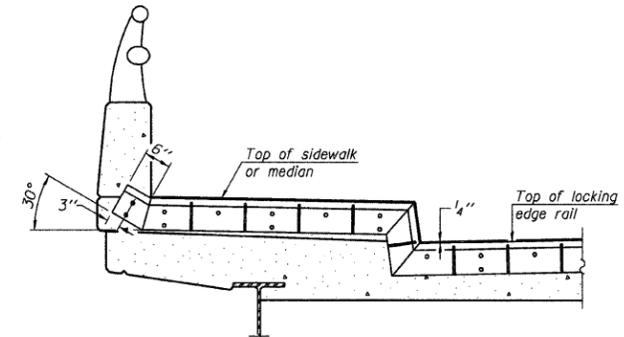
***Back gauge not required if complete joint penetration is verified by mock-up.



ANCHOR PLATE (for welded rail)



AT PARAPET



AT SIDEWALK OR MEDIAN

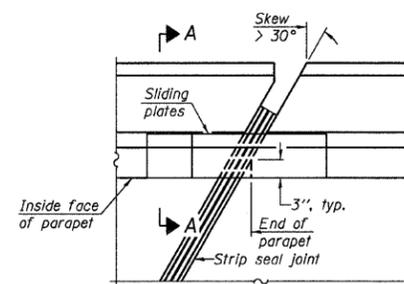
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

ROLLED (EXTRUDED) RAIL WELDED RAIL

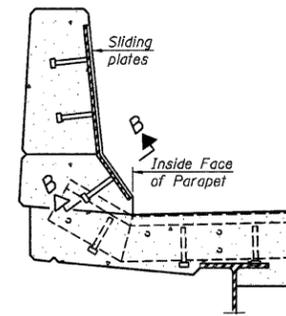
LOCKING EDGE RAIL SPLICE

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

LOCKING EDGE RAILS



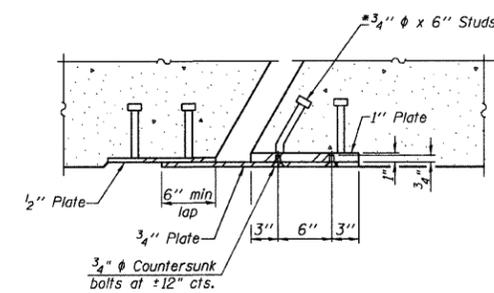
PLAN



SECTION A-A

POINT BLOCK DETAILS (for skews > 30°)

TYPICAL END TREATMENTS



SECTION B-B

BILL OF MATERIAL

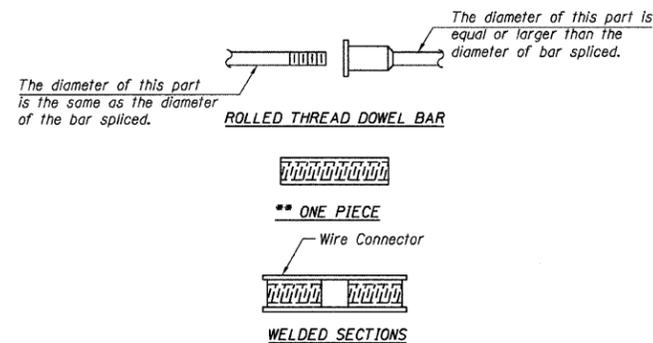
Item	Unit	Total
Preformed Joint Strip Seal	Foot	140

PREFORMED JOINT STRIP SEAL

EJ-SSJ

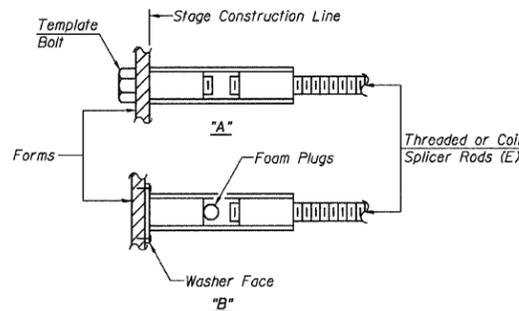
9-3-07

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EJ-SSJ 058-0067	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			72	07 BRIDGE REPAIRS 2008-2	MACON	31	24	
		CHECKED -	REVISED -			CONTRACT NO. 74270					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE: 20	SHEET NO. OF SHEETS	STA. TO STA.			



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

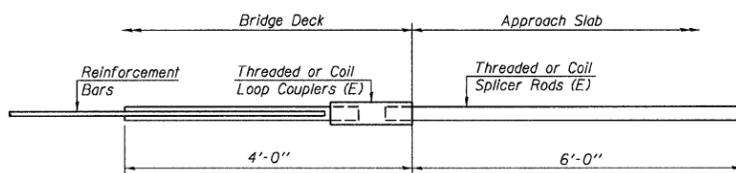
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

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:

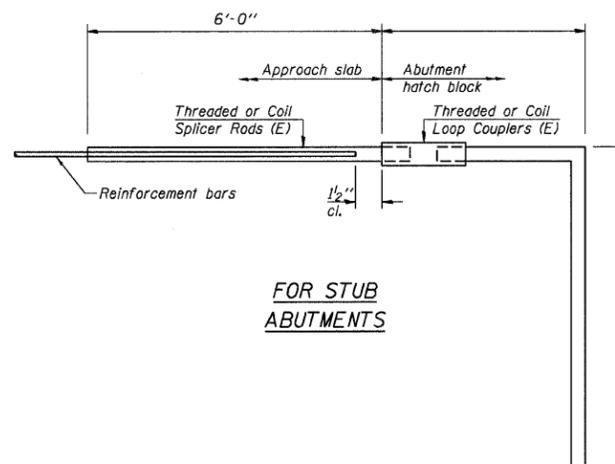
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_l$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_l$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_l = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



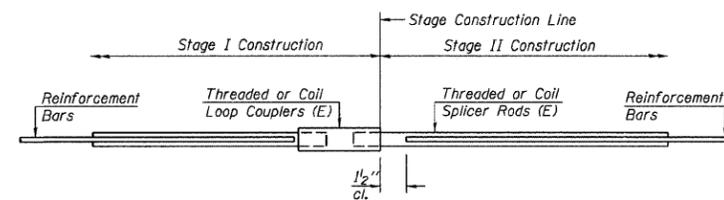
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



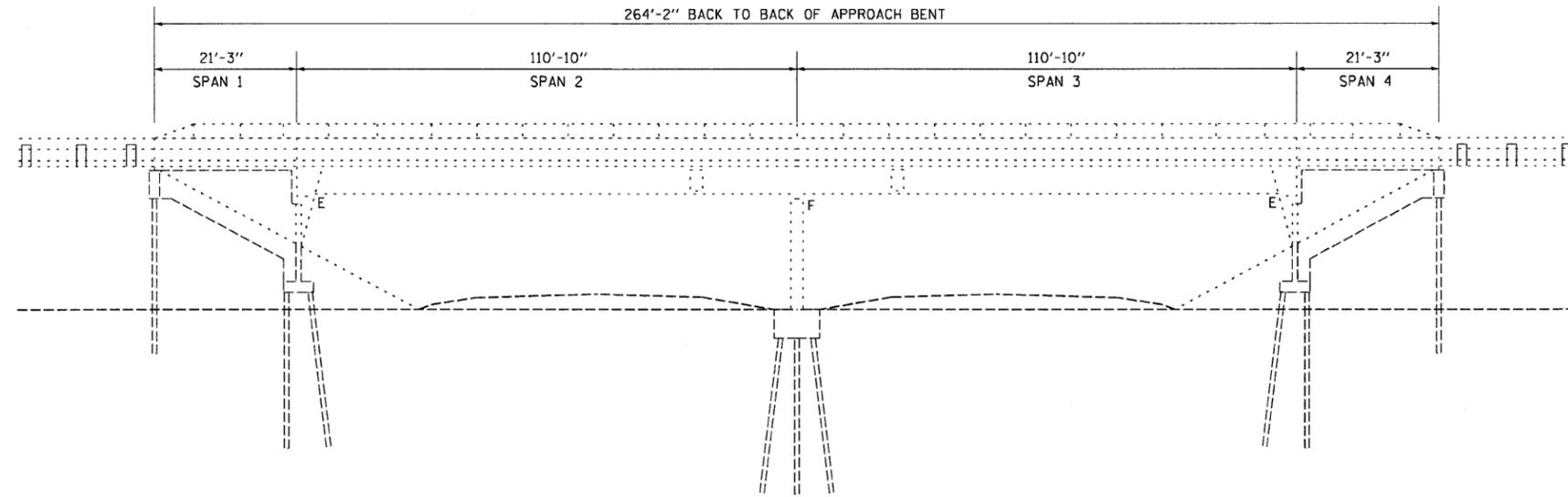
STANDARD

Bar Size	No. Assemblies Required	Location
#6	34	058-0067

BAR SPLICER ASSEMBLY DETAILS

BSD-1

11-1-06



ELEVATION



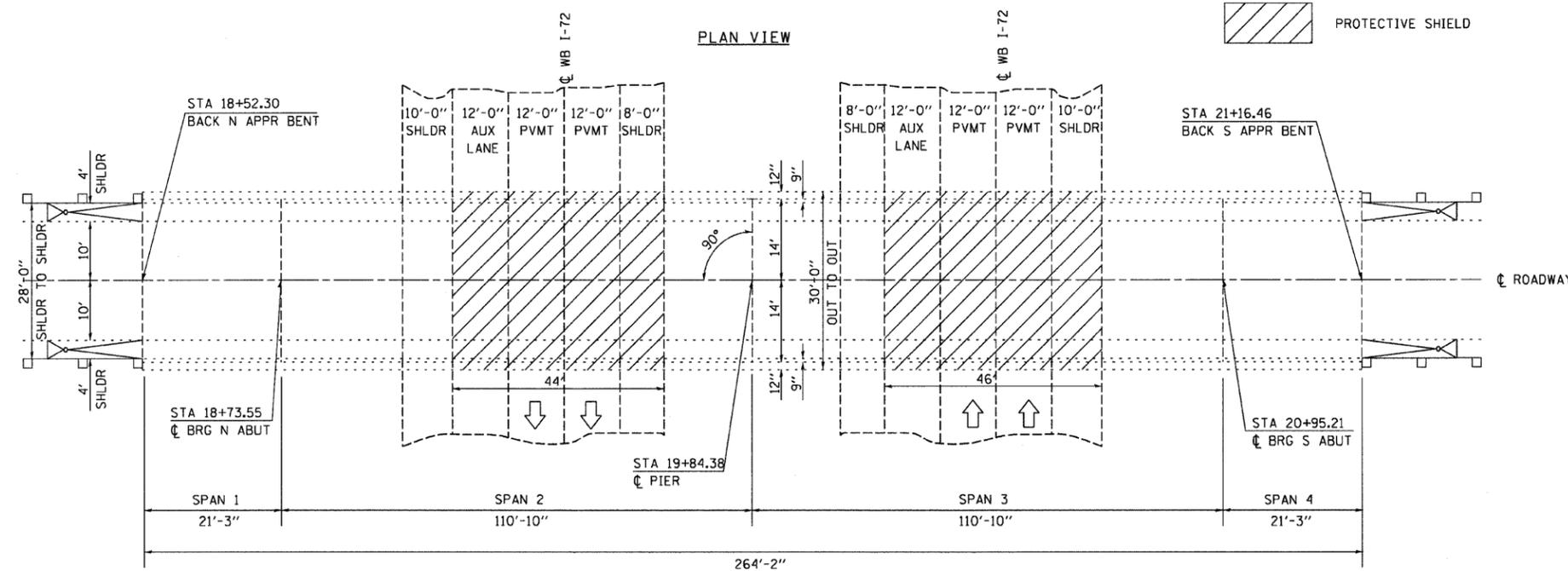
GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensations for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

TOTAL BILL OF MATERIALS

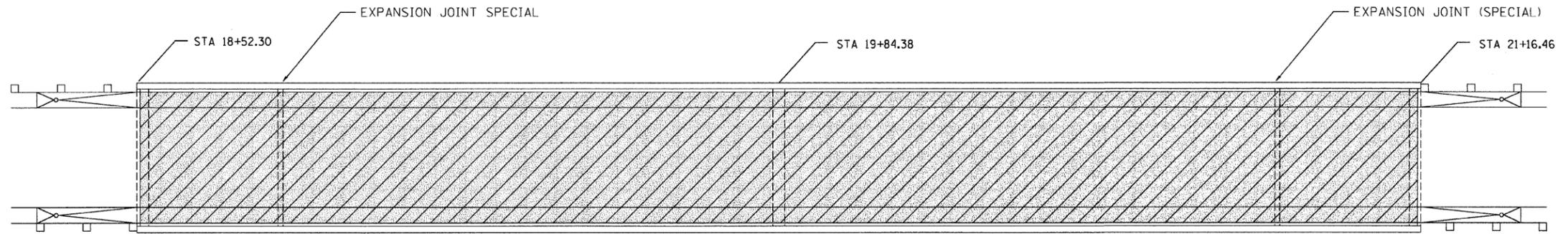
ITEM DESCRIPTION	UNIT	QUANTITY
Expansion Joint (Special)	FOOT	60
Structural Repair of Concrete (Depth <= 5in)	SQ FT	29
Hot-Mix Asphalt Surface Removal, 1 1/2"	SQ YD	778
Deck Slab Repair (Full Depth, Type I)	SQ YD	9
Deck Slab Repair (Full Depth, Type II)	SQ YD	35
Deck Slab Repair (Partial)	SQ YD	108*
Waterproofing Membrane System (Special)	SQ YD	778
Hot-Mix Asphalt Surface Course, Mixture C, N70	TON	66
Protective Shield	SQ YD	300

* The quantity is estimated. Actual quantity and locations to be determined by the Engineer after the existing HMA overlay as been removed. Actual locations to be included in the AS BUILT plans.



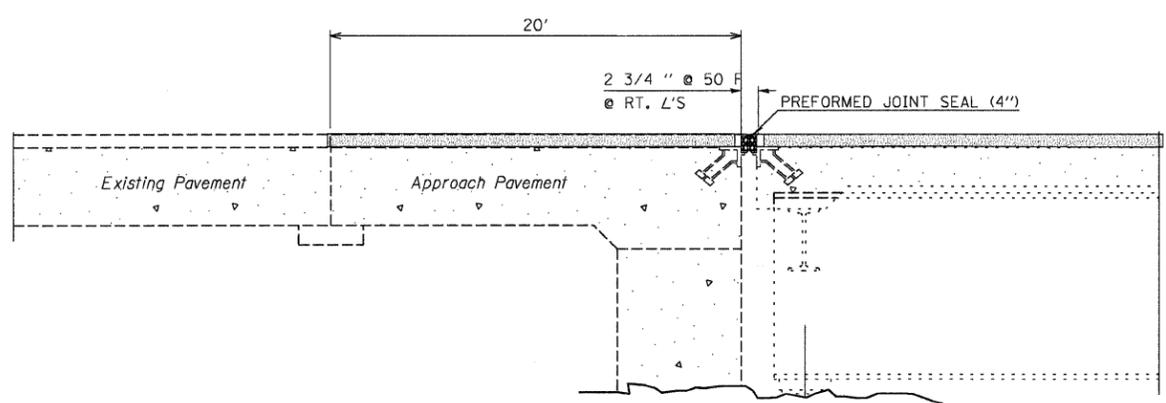
PLAN VIEW



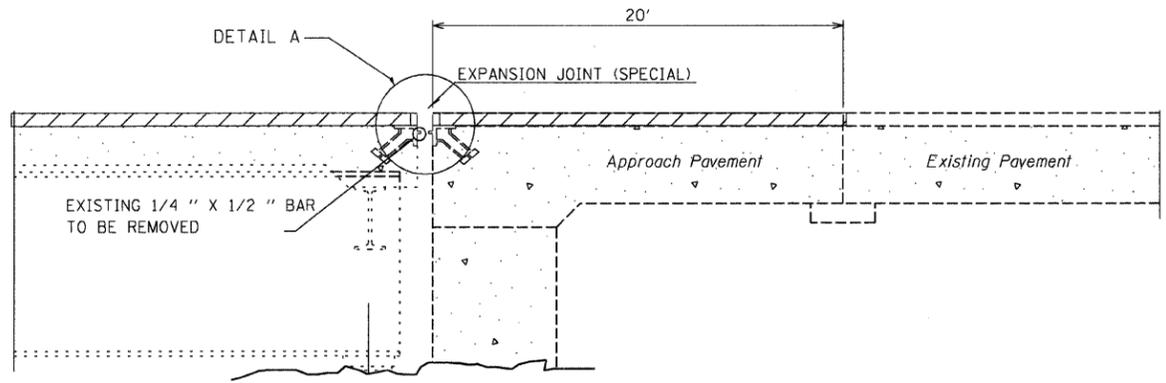
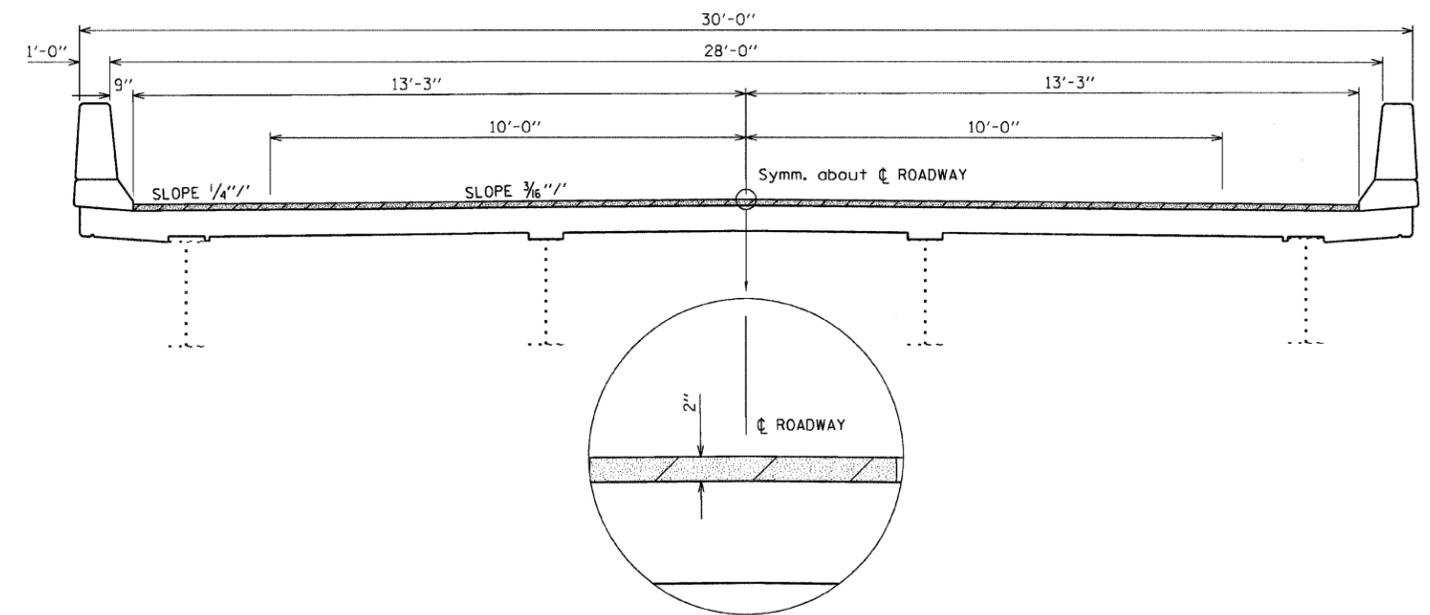


PLAN VIEW

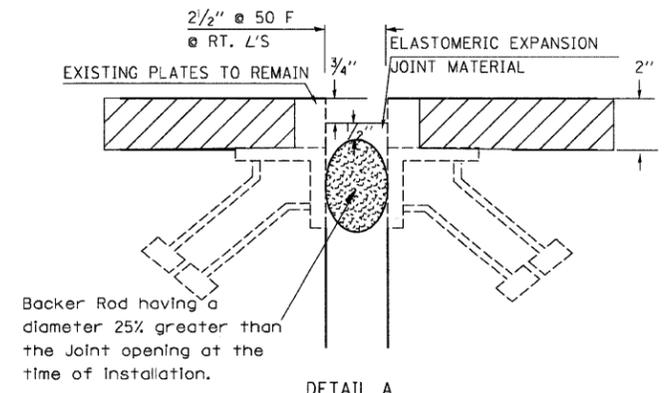
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- WATERPROOFING MEMBRANE SYSTEM (SPECIAL)
HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N70



CROSS-SECTION
EXISTING JOINTS

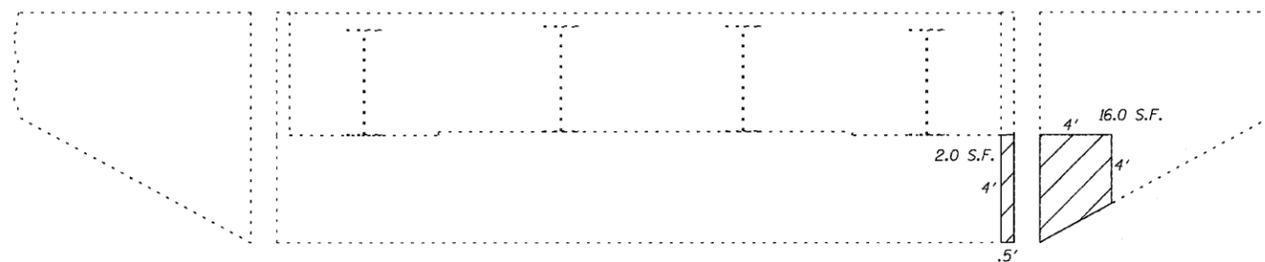


CROSS-SECTION
PROPOSED JOINTS

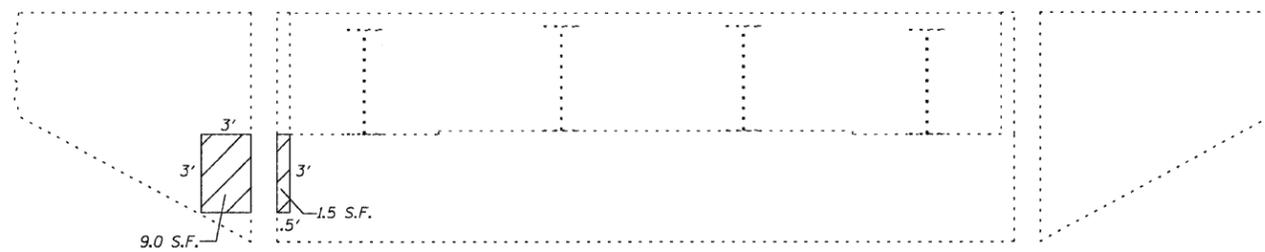


DETAIL A
PROPOSED JOINT

FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERLAY AND JOINT DETAILS 058-0076	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---			72	D7 BRIDGE REPAIRS 2008-2	MACON	31	28	
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 74270					
	PLOT DATE = #DATE#	DATE - ---	REVISED - ---			ILLINOIS FED. AID PROJECT					
						SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____					



NORTH ABUTMENT



SOUTH ABUTMENT

NOTE: QUANTITIES ARE ESTIMATED. ACTUAL QUANTITIES TO BE DETERMINED BY THE RESIDENT ENGINEER.

 STRUCTURAL REPAIR OF CONCRETE <= 5"

FILE NAME =	USER NAME = #USER*	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE 058-0076	F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---			72	D7 BRIDGE REPAIRS 2008-2	MACON	31	29	
	PLOT SCALE = #SCALE*	CHECKED - ---	REVISED - ---			CONTRACT NO. 74270					
	PLOT DATE = #DATE*	DATE - -----	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					
				SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____							

