FOR INDEX OF SHEETS, SEE SHEET NO. 3

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STATE OF ILLINOIS

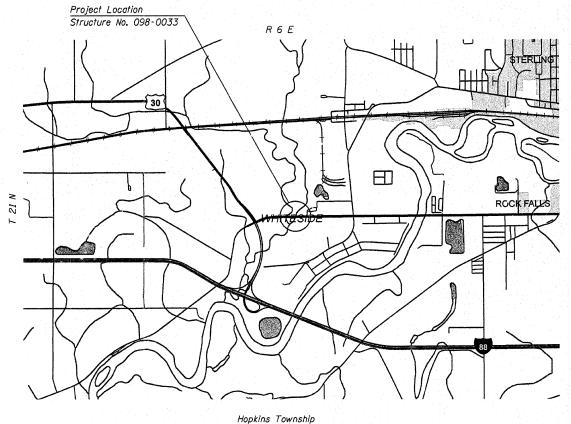
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAS ROUTE 1197 (U.S. ROUTE 30) SECTION (110BR-1)M-1

BRIDGE REPAIR WHITESIDE COUNTY

C-92-094-09



GROSS LENGTH = 448.0 FT. = 0.085 MILE NET LENGTH = 448.0 FT. = 0.085 MILE

CONTRACT NO. 64E91

1-800-892-0123

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.

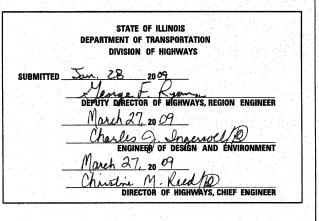
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER Mahmoud Etemadi 815/284-5393

| F.A.S. | SECTION | COUNTY | TOTAL SHEET | NO. | 1197 | (110BR-1)M-1 | WHITESIDE | 13 | 1.1 | | FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. 64E91

D-92-052-09





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

100% STATE SFTY-2A

		and the second s	SETY-ZA
paycode	description	units	total quantit
40600990	TEMPORARY RAMP	SQ YD	54
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	60
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	534
50102400	CONCRETE REMOVAL	CU YD	18.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	18.9
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2990
50800515	BAR SPLICERS	EACH	38
52000110	PREFORMED JOINT STRIP SEAL	FOOT	170
63300455	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION. STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1500
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	3480
70300570	PAVEMENT MARKING TAPE. TYPE III 24"	FOOT	48
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1220
70400100	TEMPORARY CONCRETE BARRIER	FOOT	687.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1375
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3240
78300100	PAVEMENT MARKING REMOVAL	SO FT	500
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	9
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2

GENERAL NOTES & INDEX OF SHEETS

US 30 OVER ELKHORN CREEK

FAS 1197 (US 30)

SECTION (110BR-1)M-1

WHITESIDE COUNTY

STRUCTURE NUMBER 098-0033

PLOT DATE = Wed Jan 28 09:00:17 2009 DATE

FILE NAME =

	F.A.S. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
Summary of Quantities	1197	(1108)	R-1)M-1	Whiteside	13	2
			. Paritie	CONTRAC	T NO. (54E91
T NO. OF SHEETS STA TO STA	FED. R	OAD DIST. NO.	ILLINOIS FED.	AID PROJECT	100	7 7

GENERAL NOTES

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then. use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This workwill be included in the contract unit price per Cubic Meter (Cubic Yard) for MOBILIZATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of MOBILIZATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the MOBILIZATION

At bridge expansion joints, if temporary expansion joint bulkheads are attached to adjacent deck slabs or abutments for support, the Contractor shall cut the attachments as soon as the concrete has set to prevent joint damage due to horizontal contraction or expansion.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123.

The following Mixture Requirements are applicable for this project:

fixture Uses(s): Surface Level Binder
PG: PG 64-22 PG 64-22
Design Air Voids 4.0 © N50 4.0 © N50
lixture Composition
Gradation Mixture) IL 9.5 or 12.5 IL 9.5
riction Aggregate D n/a
O Year ESAL 2.8 2.8
Mix Unit Weight - 112 lbs/sv/in

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per ton for HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 of the type specified.

INDEX OF SHEETS

- 1. Cover Sheet
- 2. Summary of Quantities
- 3. General Notes, Index of Sheets
- 4. Traffic Control Plan
- 5. Roadway Approach Plan
- 6. General Plan & Elevation
- 7. Deck Plan & Cross-Section
- 8. Joint Details
- 9. Joint Details
- 10, Preformed Joint Strip Seal
- 11. Bar Splicers
- 12. District Standard
- 13. District Standard

STANDARDS

701006-03

701201-03

701301-03 701321-10

701901-01

704001-05

720011-01 728001-01

729001-01

GENERAL NOTES & INDEX OF SHEETS

US 30 OVER ELKHORN CREEK

FAS 1197 (US 30)

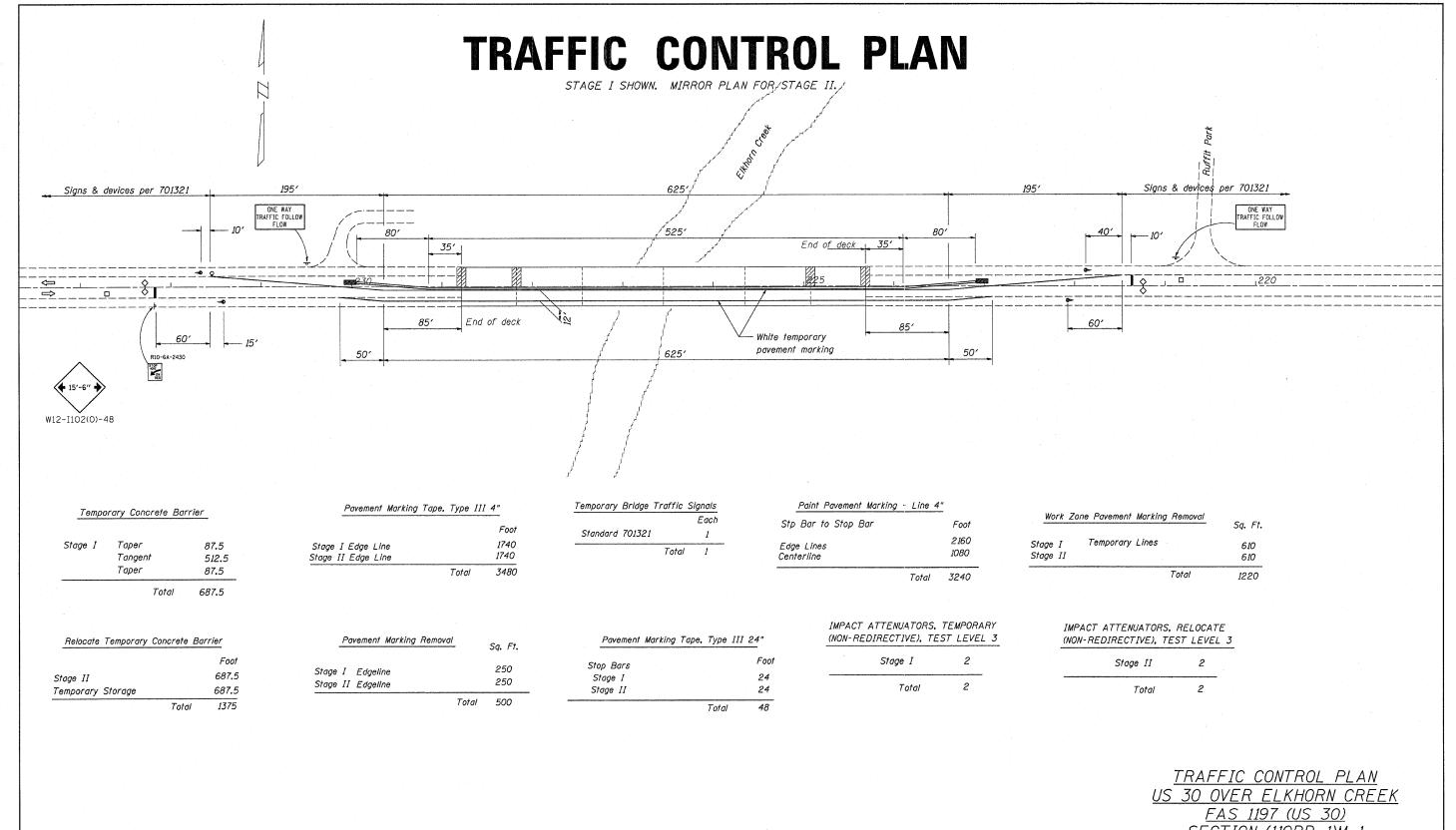
SECTION (110BR-1)M-1

WHITESIDE COUNTY

STRUCTURE NUMBER 098-0033

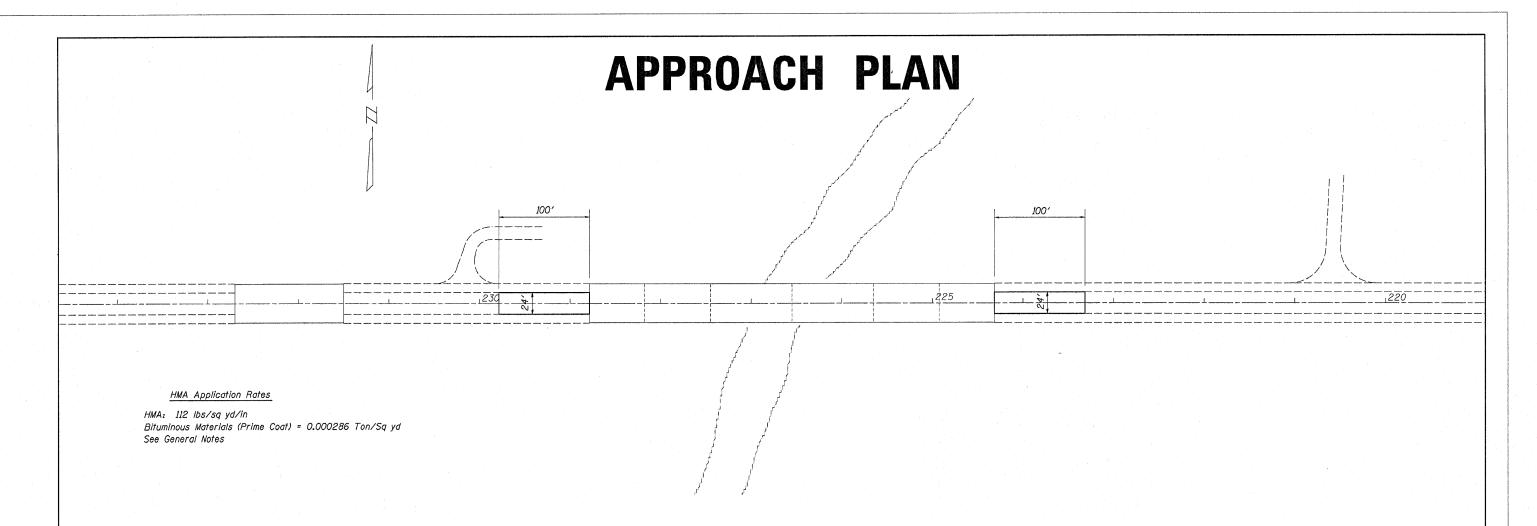
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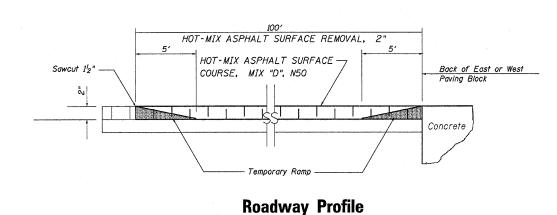
General Notes	F.A.S. RTE. SECTION COUNTY TOTAL SHEETS NO.
Index of Sheets	1197 (110BR-1)M-1 Whiteside 13 3
IIIGA OI SIIGOLS	CONTRACT NO. 64E91
SCALE: SHEET NO OF SHEETS STA TO STA	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT



SECTION (110BR-1)M-1 WHITESIDE COUNTY STRUCTURE NUMBER 098-0033

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HOT-MIX ASPHALT	SURFACE	REMOVA	AL, 2"
	Sq	Υd	
East Approach		267	
West Approach		267	
	Total	5 34	Sq Yd

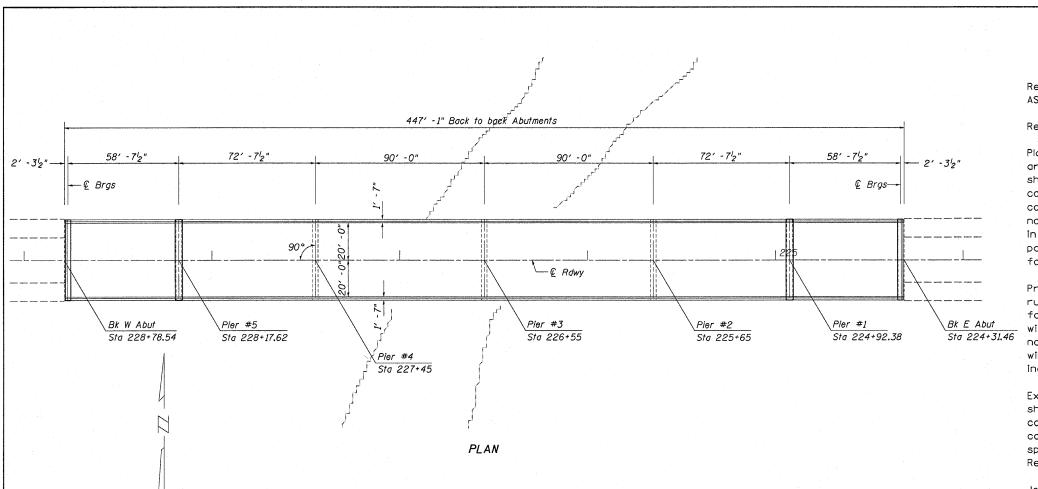
Temporary Ro	этр
	Sq Yd
East Approach	27
West Approach	27
Total	54 Sq YD

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

	Ton	
East Approach	30	
West Approach	30	
	Total 60 Too	

ROADWAY APPROACH PLAN
US 30 OVER ELKHORN CREEK
FAS 1197 (US 30)
SECTION (110BR-1)M-1
WHITESIDE COUNTY
STRUCTURE NUMBER 098-0033

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Pier #5 Pier #4 Pier #3 Pier #2 Pier #1 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) 9 Square feet - 3' x'3' Remove and replace Joints at abutiments and piers 1 & 5

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction 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 the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or 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 of this work will be included in the pay item covering removal of existing concrete.

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 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

TOTAL BULL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	18.9
CONCRETE SUPERSTRUCTURE	CU YD	18.9
REINFORCEMENT BARS, EPOXY COATED	POUND	2990
PREFORMED JOINT STRIP SEAL	F00T	170
BAR SPLICERS	EACH	38
REM REIN T B TERM T6	EACH	4
STR REP CON DP = < 5	SQ FT	9

GENERAL PLAN & ELEVATION
US 30 OVER ELKHORN CREEK
FAS 1197 (US 30)
SECTION (110BR-1)M-1
WHITESIDE COUNTY
STRUCTURE NUMBER 098-0033

COUNTY TOTAL SHEET NO.

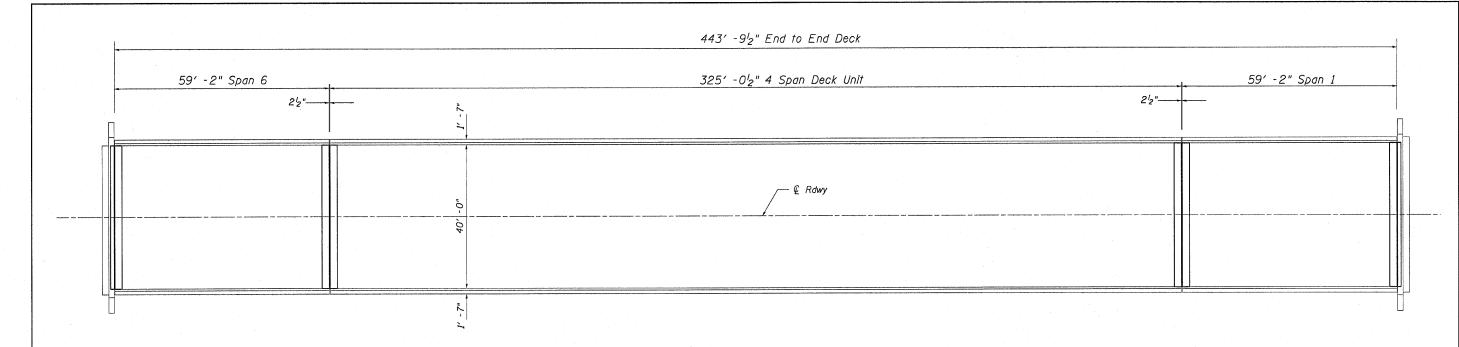
Whiteside 13 6

CONTRACT NO. 64E91

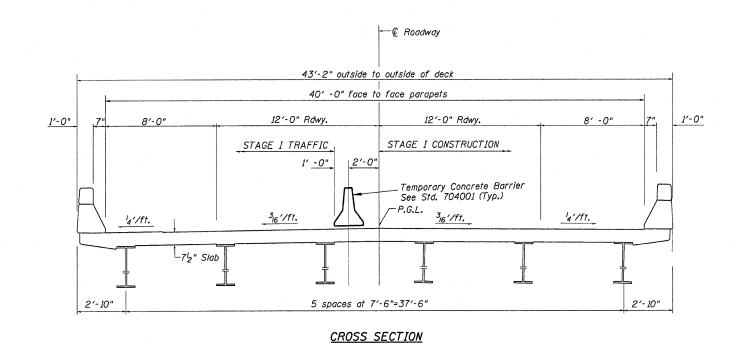
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	GENERAL PLAN &	ELEVATION	1197	(110BR-1)M-1
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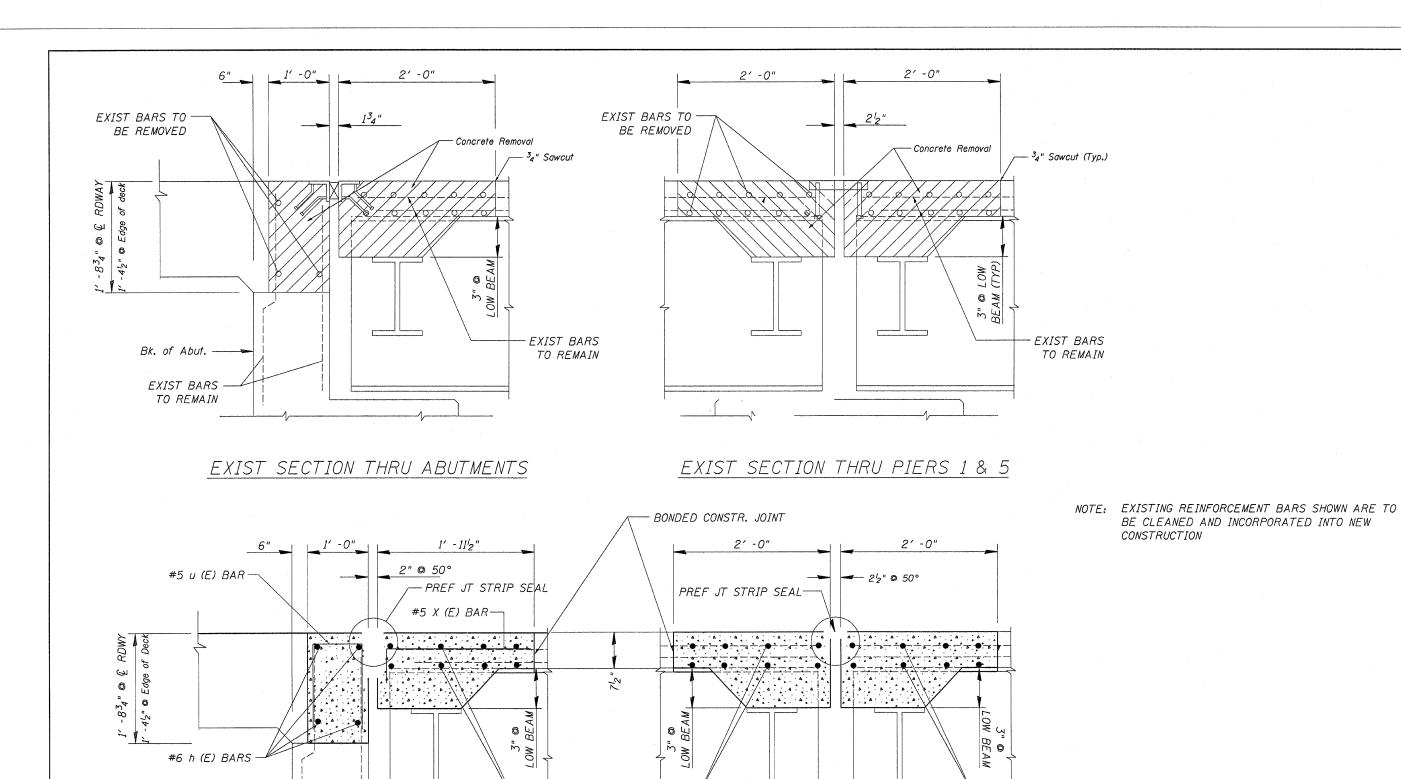


DECK PLAN



LOOKING AHEAD WEST Stage I DECK PLAN & CROSS-SECTION
US 30 OVER ELKHORN CREEK
FAS 1197 (US 30)
SECTION (110BR-1)M-1
WHITESIDE COUNTY
STRUCTURE NUMBER 098-0033

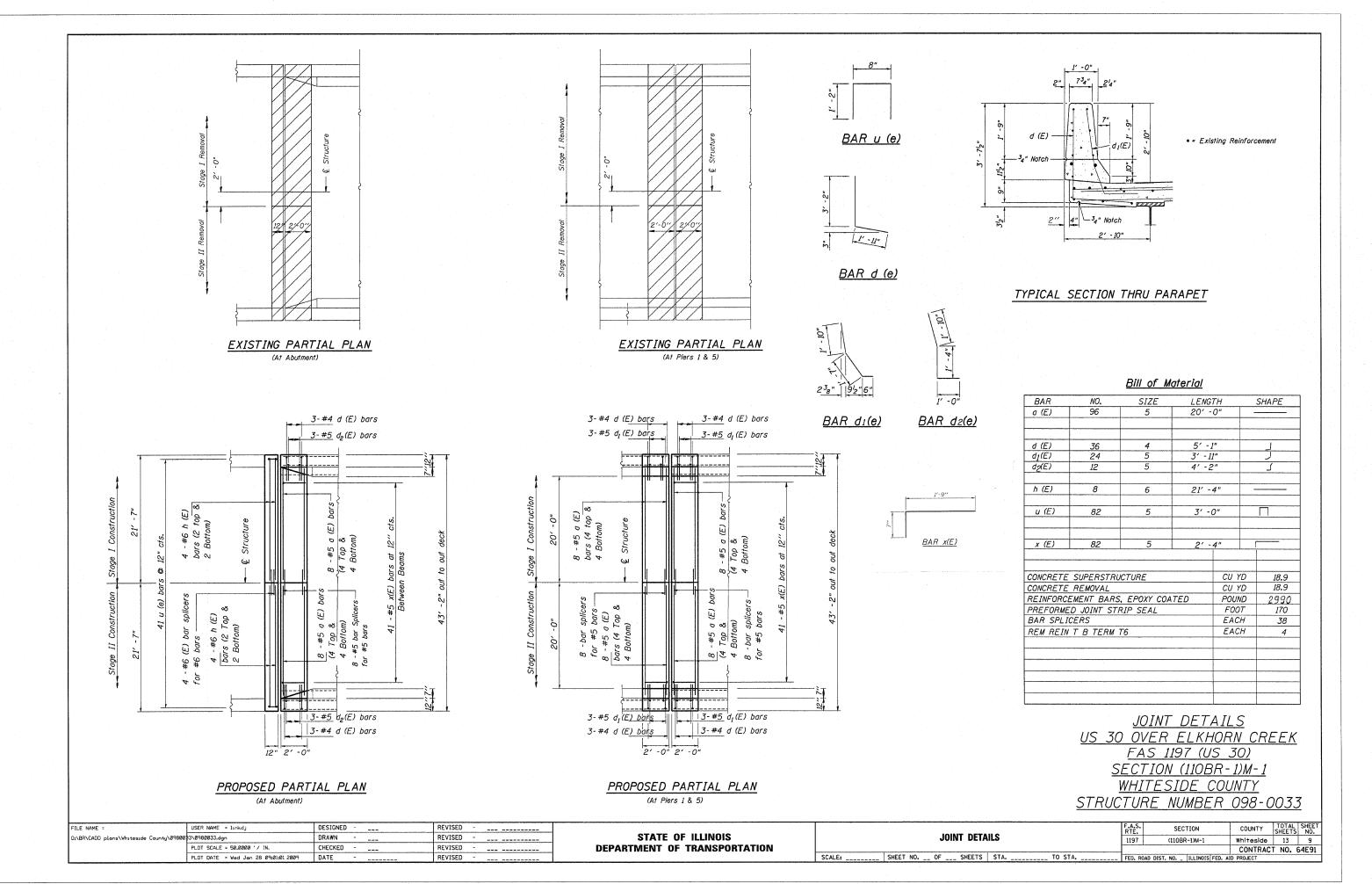
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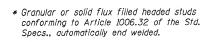


JOINT DETAILS
US 30 OVER ELKHORN CREEK
FAS 1197 (US 30)
SECTION (110BR-1)M-1
WHITESIDE COUNTY
STRUCTURE NUMBER 098-0033

Bk. Abut.	#5 o (E) BAR	#5 a (E) BAR/	Australia a di antina nyaéta dan samanaya d	L	\#5 a	(E) BAR
EXIST BARS				\\		
PROP SECTION THE	RU ABUTMENTS	PROP	SECTION	THRU PIERS	1 & 5	

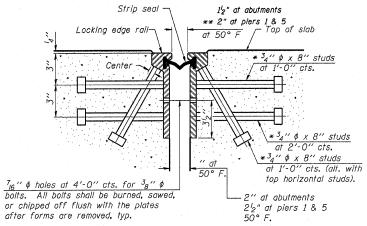
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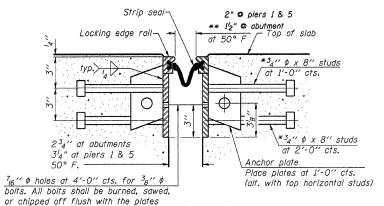
ROLLED

EXTRUDED RAIL



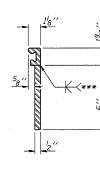
SECTION THRU

ROLLED RAIL JOINT

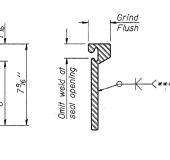


after forms are removed, typ. SECTION THRU

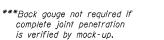
WELDED RAIL JOINT

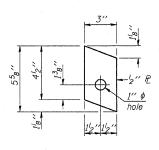


WELDED RAIL



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





ANCHOR P (for welded rail.

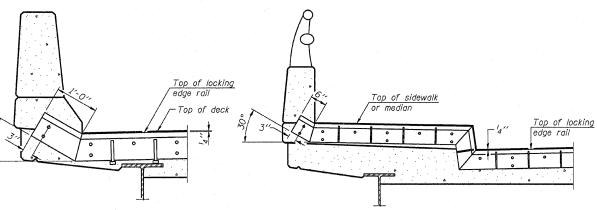
Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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.



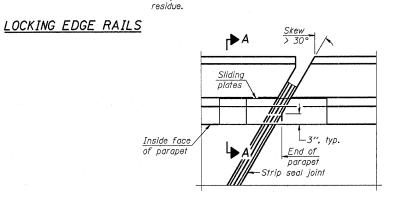
AT PARAPET

SCALE: None____

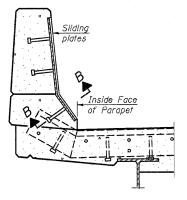
AT SIDEWALK OR MEDIAN

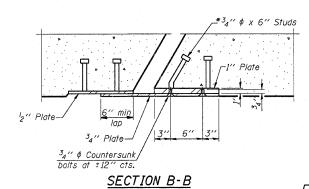
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS



PLAN





BILL OF MATERIAL Item Unit Total Preformed Joint Strip Seal Foot 170

SECTION A-A

POINT BLOCK DETAILS (for skews > 30°)

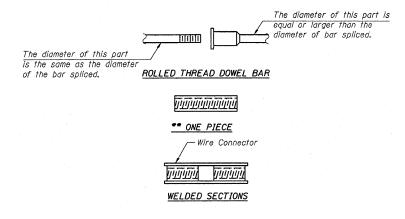
PREFORMED JOINT STRIP SEAL US 30 OVER ELKHORN CREEK FAS 1197 (US 30) SECTION (110BR-1)M-1 WHITESIDE COUNTY STRUCTURE NUMBER 098-0033

EJ-SSJ

10-1-08

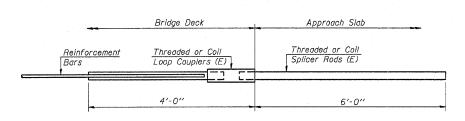
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		F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
Preformed Joint S	trip Seal	1197	(110BR-1)M-1	Whiteside	13	10
-			ILLINOIS	CONTRAC	T NO.	64E91
	STA TO STA	FED. RO	DAD DIST. NO ILLINOIS FED. A	D PROJECT		

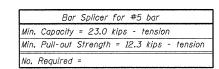


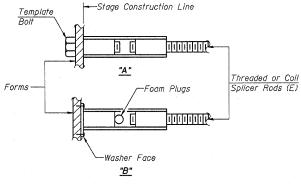
BAR SPLICER ASSEMBLY ALTERNATIVES

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



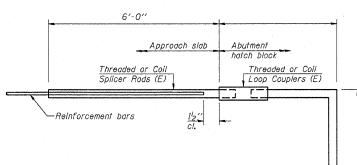
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS





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 STUB **ABUTMENTS**

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

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:

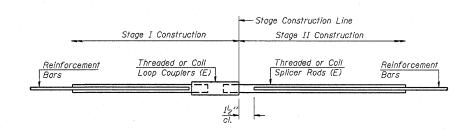
 Minimum Capacity = 1.25 x fy x A_t
 (Tension in kips) = 0.66 x fy x A_t
 (Tension in kins) = 0.66 x fy x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
		Strengt	h Requirements
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension
#4	1'-8''	14.7	7.9
#5	2'-2"	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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	32	Deck
#6	6	A but ments

BAR SPLICER ASSEMBLY DETAILS US 30 OVER ELKHORN CREEK FAS 1197 (US 30) SECTION (110BR-1)M-1 WHITESIDE COUNTY STRUCTURE NUMBER 098-0033

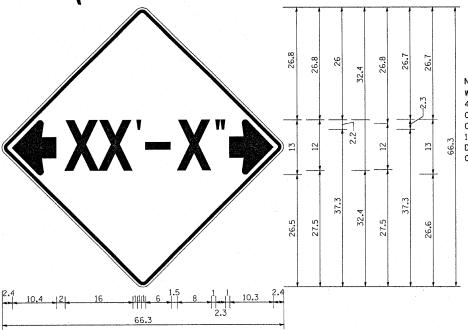
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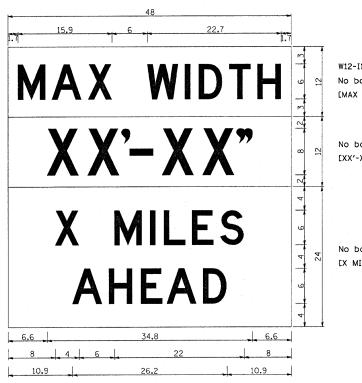
·		F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
Bar Splice	1197	(110BR-1)M-1	Whiteside	13	11	
	STA. TO STA.		ILLINOIS	CONTRAC	T NO.	64E91
SCALE: None	FED. RO	DAD DIST. NO [ILLINOIS FED. AI	D PROJECT			

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



OTES

W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°



W12-I103 (Width is 8D); No border, Black on White; [MAX WIDTH] D;

No border, Black on Orange; [XX'-XX''] D:

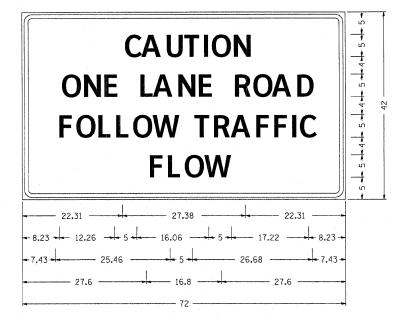
No border, Black on White;
[X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting;
2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

	С	1	Α		U		T		1		0		N		
22.31	3.36	0.63	2 4.18	0.9	4 3.36	0.94	3.04	0.94	0.78	3 1,17	3.52	1.17	3.36	22.3	
	0		N		E										
8.23	3 . 51	1.17	3.36	1.18	3.04										
		L		Α		N		E							
	5.00	3.05	0.31	4.18	0.94	3.36	1.17	3.05							
		R		0		Α		D]					
	5.00	3.36	0.93	3.52	0.94	4.18	0.93	3.36	8.23						
	F		0		L		L		0		W				
7.43	3.04	0.94	3.52	1.17	3.04	0.94	3.05	0.94	3.51	0.94	4.37				
		Т		R		Α		F		F		1		С	
	5.00	3.05	0.94	3.36	0.94	4.18	0.93	3.05	0.94	3.04	0.94	0.78	1.18	3.35	7.
***************************************	F		L		0		W								
27.60	3.0	5 0.9	4 3.0	4 0.9	4 3.52	2 0.9	3 4.38	27.6	50						

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

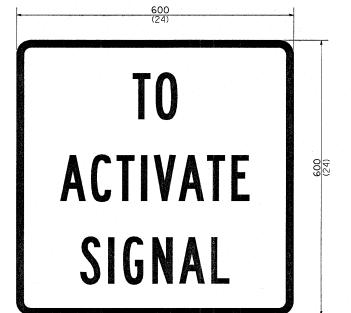
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS

					OTHERWISE	NO IED.				
REVISEDREVINED28=0	5					F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEE
REVISED -		REGION	2 / DISTRICT	2 STANDARD		1197	(110BR-1)M-1	Whiteside	13	12
REVISED -								CONTRAC	T NO.	64E9
REVISED -		SCALE: 50.0000 1/ IN SHEET NO.	_ OF SHEETS	STA.	TO STA	FED. ROA	AD DIST. NO ILLINOIS FED. AI	D PROJECT		

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)

100(4) CAPITAL LETTERS - BLACK

13(1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE AP HIGH INTENSITY PRISMATIC 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.

STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

						- 1
REVISED		F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET
REVISED	REGION 2 / DISTRICT 2 STANDARD	1197	(110BR-1)M-1	Whiteside	13	13
REVISED				CONTRACT	NO.	64F91
REVISED	SCALE: 50.0000 '/_IN SHEET NO OF SHEETS STA TO STA.	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT				

PLOT DATE = Wed Jan 28 09:01:29 2009

REVISED - 1-22-07