

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

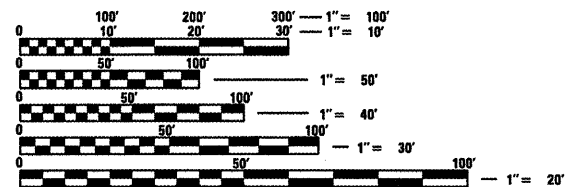
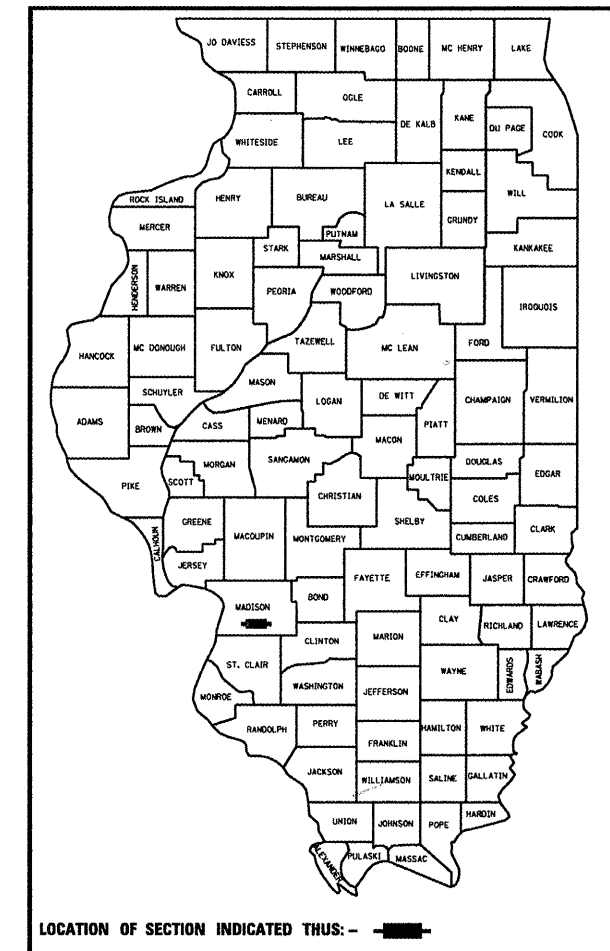
FAI ROUTE 70 (I-70)
SECTION 60-11B-1
EXPANSION JOINTS - CM
MADISON COUNTY

C-98-118-10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11B-1	MADISON	10	1
		ILLINOIS	CONTRACT NO. 76E25	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

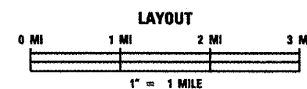
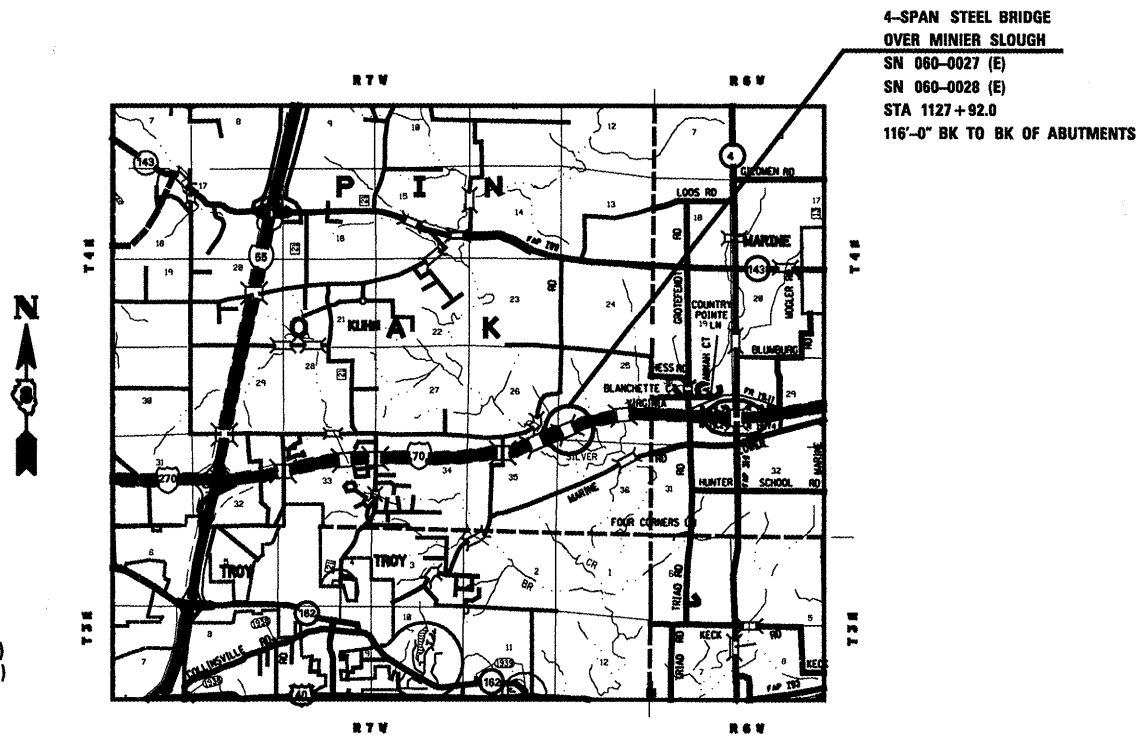
D-98-094-10



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

TRAFFIC DATA
ADT: 30,000 (2011)
37,000 (2031)
SU: 3.4%
MU: 24.2%



LATITUDE: 38.7595 LONGITUDE: -89.8351

GROSS LENGTH = 116'-0" FT. = 0.022 MILE
NET LENGTH = 116'-0" FT. = 0.022 MILE

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
PROJECT MANAGER: HERVE GELIN (618) 346-3323

CONTRACT NO. 76E25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 16 20 11
Mary C. James
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25 20 11
Scott E. Still, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 11
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-06
001001-02
001006
701400-05
701402-08
704001-06
701901-01

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AT&T ILLINOIS
 - BOND MADISON WATER COMPANY
 - SOUTHWESTERN ELECTRIC COOPERATIVE, INC.

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
4. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

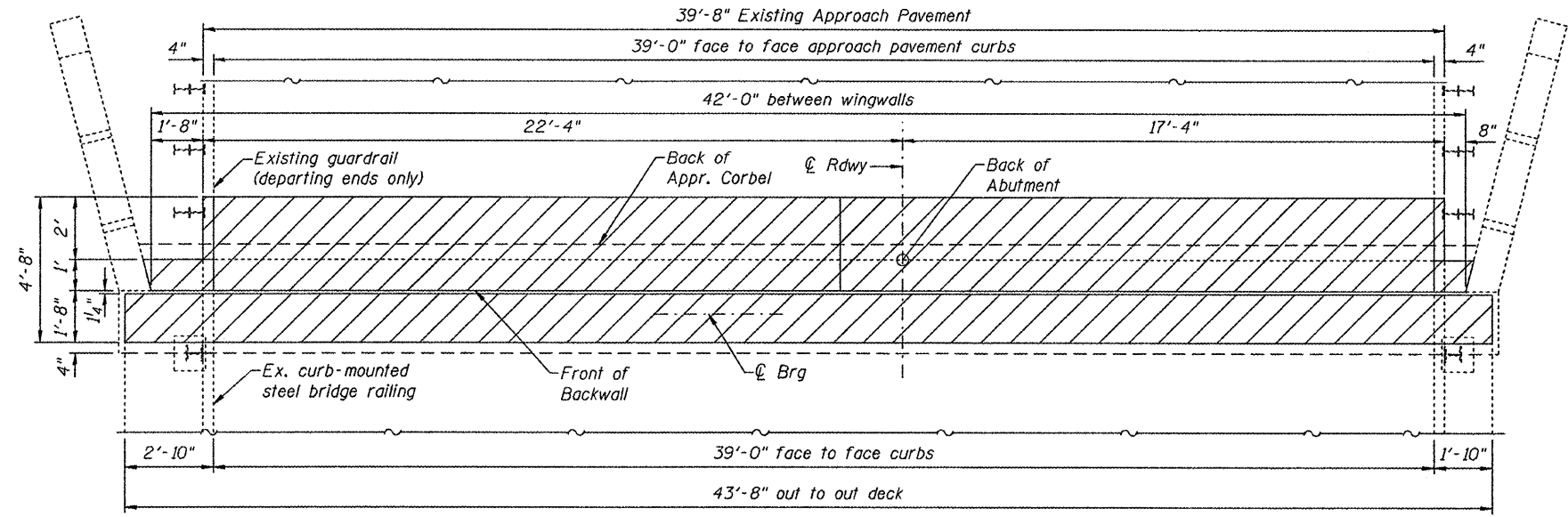
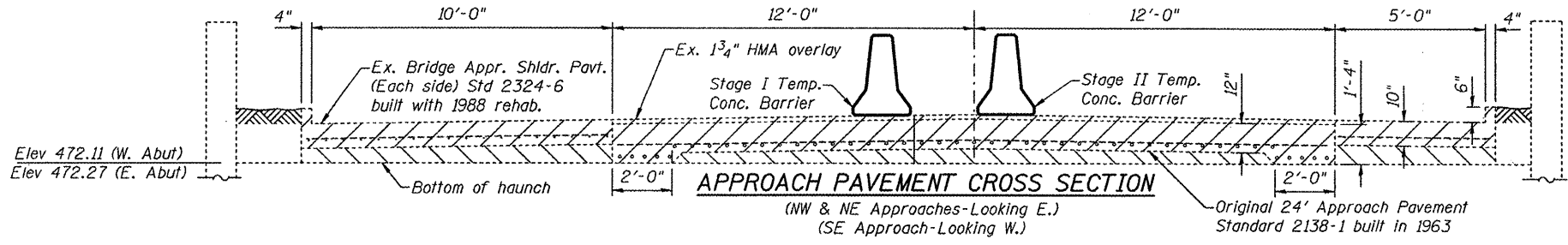
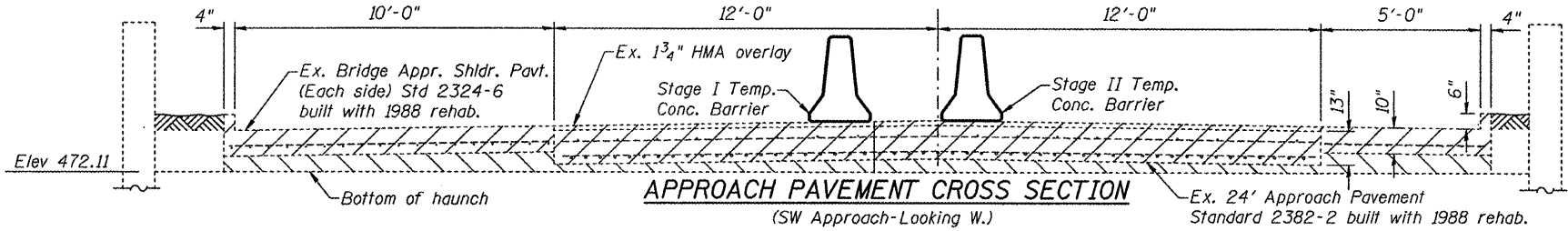
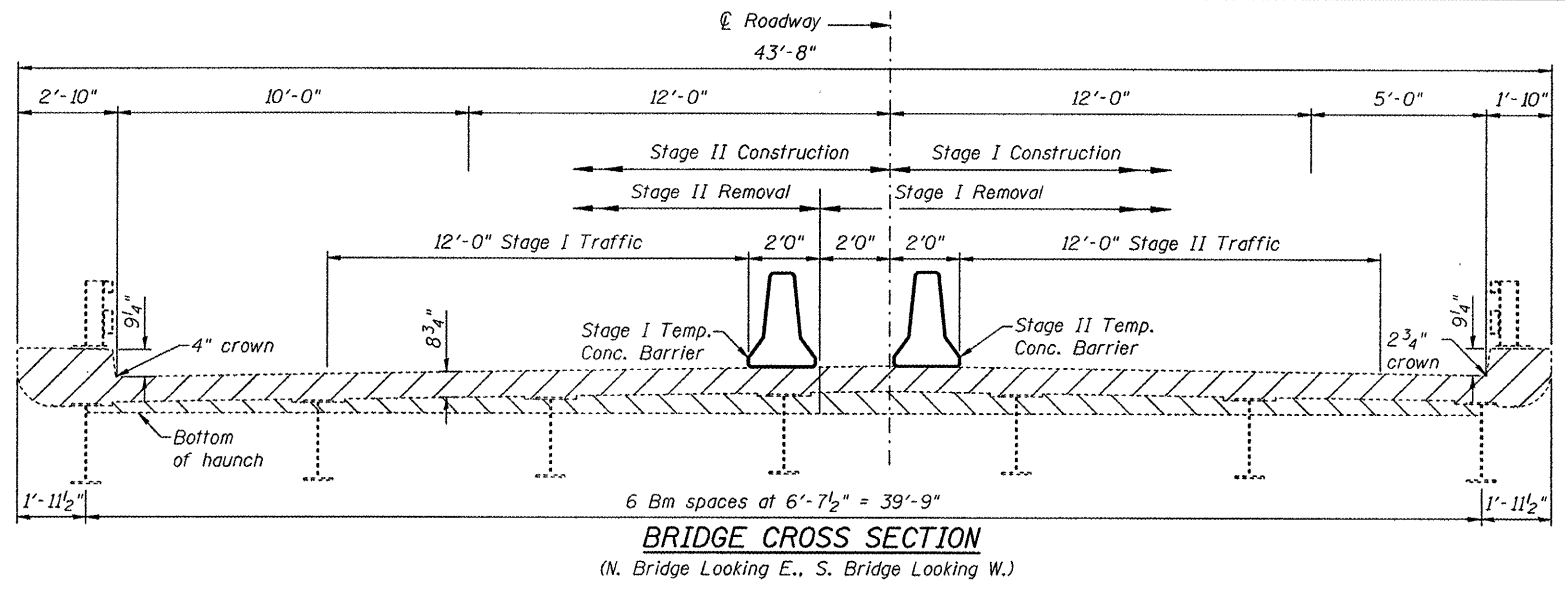
COMMITMENTS

NONE

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	100% STATE CONSTRUCTION TYPE CODE 0014
CODE NO	ITEM	UNIT		
50102400	CONCRETE REMOVAL	CU YD	35.2	35.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	68.9	68.9
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6240	6240
50800515	BAR SPLICERS	EACH	64	64
67100100	MOBILIZATION	L SUM	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550	550
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	550	550
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3056	3056
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	522	522
78300100	PAVEMENT MARKING REMOVAL	SO FT	1193	1193
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1

FILE NAME *	USER NAME * gelrh	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pe_work\psidot\gelrh\0200025\0875E	5-sht-500.dgn	DRAWN - ---	REVISED - ---			70	60-11B-1	MADISON	10	2
PLOT SCALE * 100.0000' / IN.	CHECKED - ---	REVISED - ---	REVISED - ---			CONTRACT NO. 76E25				
PLOT DATE * 3/4/2011	DATE - ---	REVISED - ---	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.				



Deck / Approach Slab Removal
 Haunch Removal

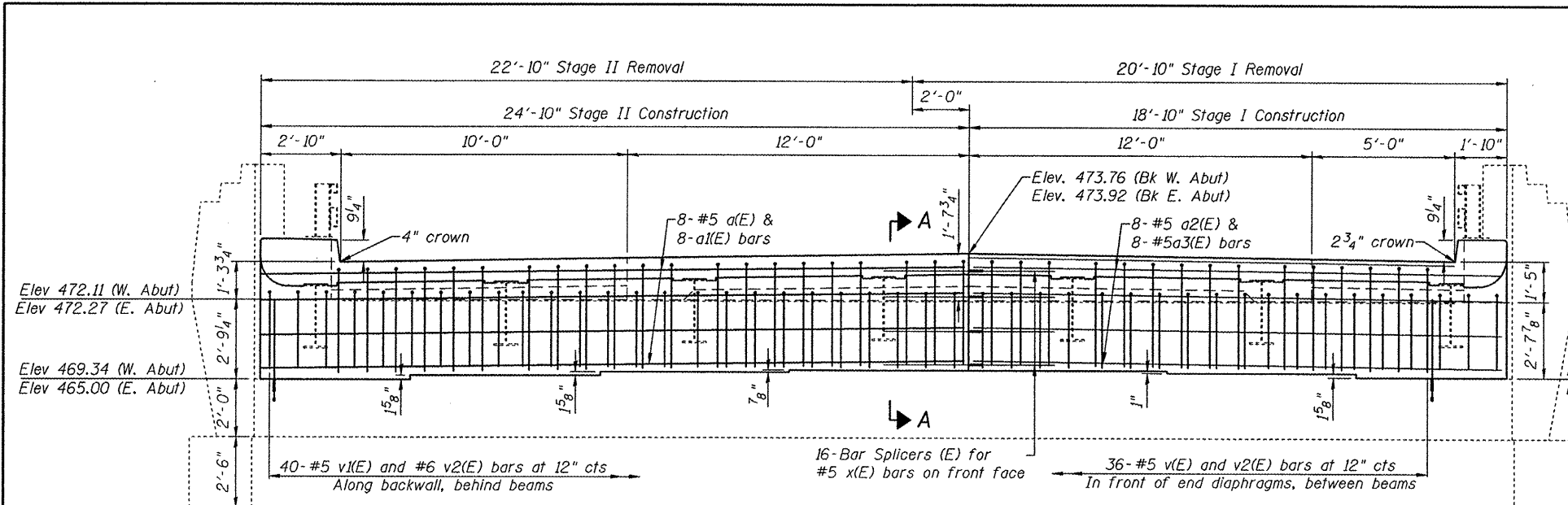
DESIGNED John Uehle
 CHECKED Brad Williams
 DRAWN John Uehle
 CHECKED Brad Williams

EXAMINED *John J. Hill*
 ENGINEER OF STRUCTURAL SERVICES
 PASSED *DePaul King*
 ENGINEER OF BRIDGE AND STRUCTURES
 DATE 3-16-2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

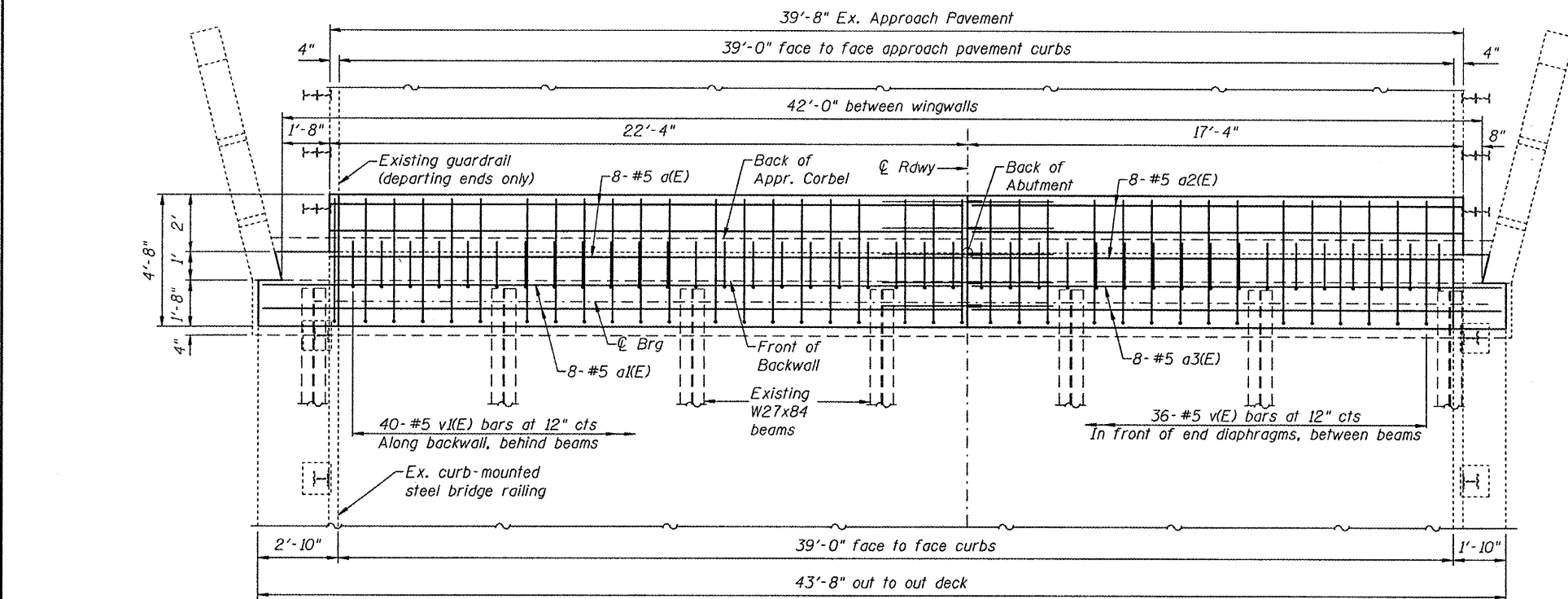
CONCRETE REMOVAL
STRUCTURE NO. 060-0027 & 0028
 SHEET NO. 2 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11B-1	MADISON	10	4
CONTRACT NO. 76E25				
ILLINOIS FED. AID PROJECT				



ELEVATION

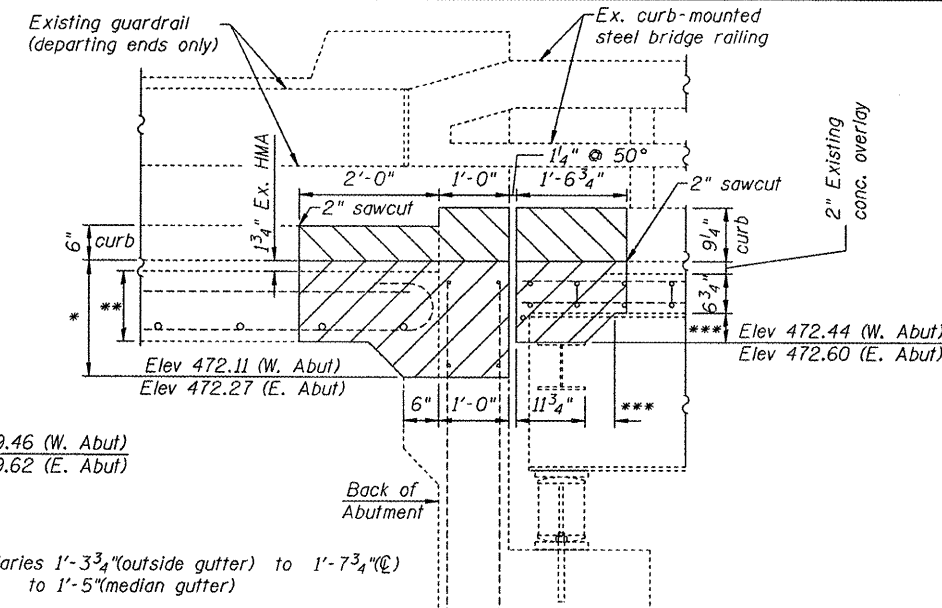
N. Bridge East Abut Looking East
S. Bridge West Abut Looking West
(Other Abutments Opposite Hand)



PLAN

N. Bridge East Abut
S. Bridge West Abut
(Other Abutments Opposite Hand)

**** Drill and epoxy grout v2(E) bars into the abutment cap in accordance with Article 584 of the Standard Specifications. Lap the v(E) and v(E) bars with v2(E) bars. Cost included with "Reinforcement Bars, Epoxy Coated".

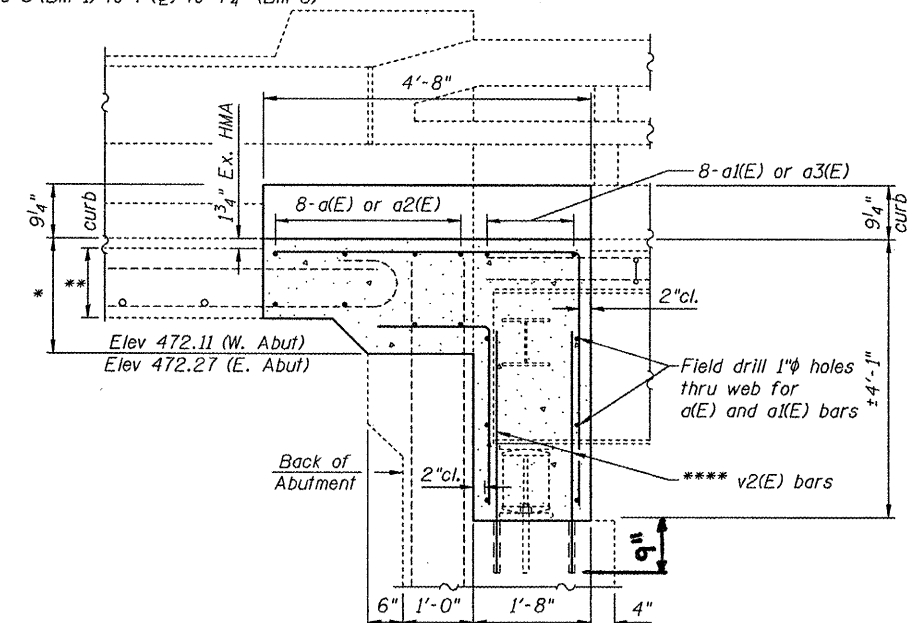


EXISTING SECTION A-A

* Varies 1'-3 3/4" (outside gutter) to 1'-7 3/4" (C) to 1'-5" (median gutter)

** Varies 12"-16" NW, NE, & SE Approach Pavt.
13" SW Approach Pavt.
10" Approach Shoulders

*** Varies 3"(Bm 1) to 7"(C) to 4 1/4" (Bm 8)



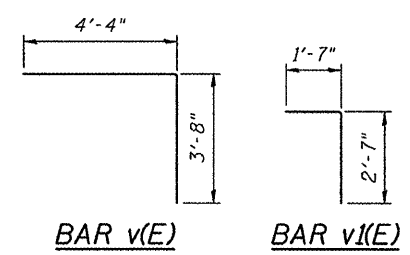
PROPOSED SECTION A-A

BILL OF MATERIAL

(All 4 Abutments)

Bar	No.	Size	Length	Shape
a(E)	32	#5	22'-2"	—
a1(E)	32	#5	24'-6"	—
a2(E)	32	#5	17'-2"	—
a3(E)	32	#5	18'-6"	—
v(E)	144	#5	8'-0"	└
v1(E)	160	#5	4'-2"	└
v2(E)	304	#6	3'-6"	—

Concrete Removal	Cu. Yds.	35.2
Reinforcement Bars, Epoxy Coated	Pound	6240
Concrete Superstructure	Cu. Yds.	68.9



DESIGNED John Uehle
CHECKED Brad Williams
DRAWN John Uehle
CHECKED Brad Williams

EXAMINED *John F. Schmitt*
PASSED *Carl K...*

DATE - 3-16-2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

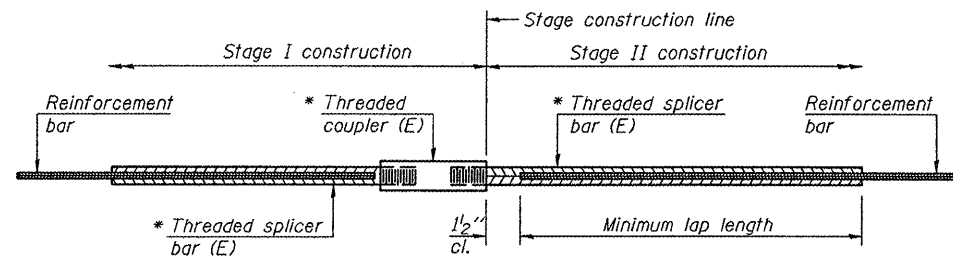
CONCRETE DETAILS
STRUCTURE NO. 060-0027 & 0028

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11B-1	MADISON	10	5

CONTRACT NO. 76E25

SHEET NO. 3 OF 8 SHEETS

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

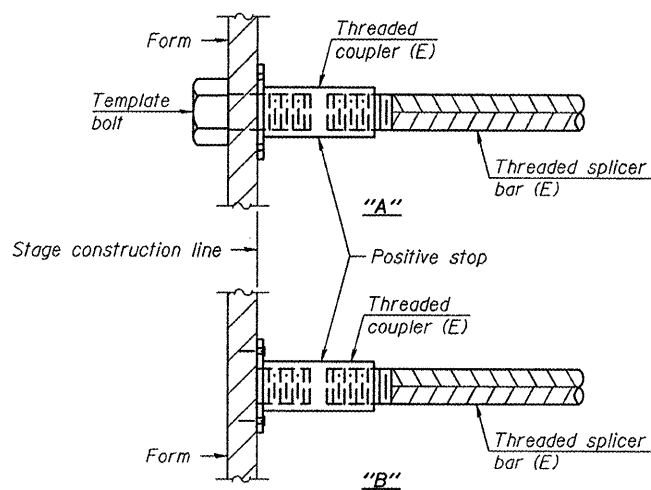
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

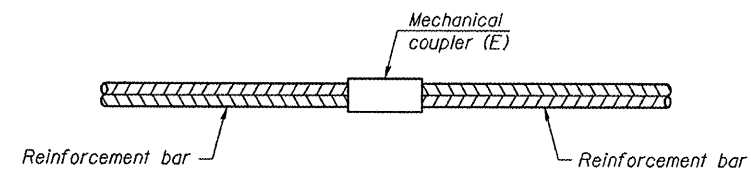
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutments	#5	64	2'-11"



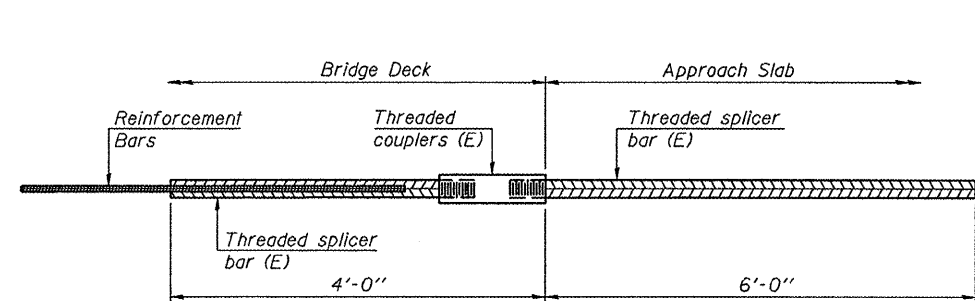
INSTALLATION AND SETTING METHODS

- "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.



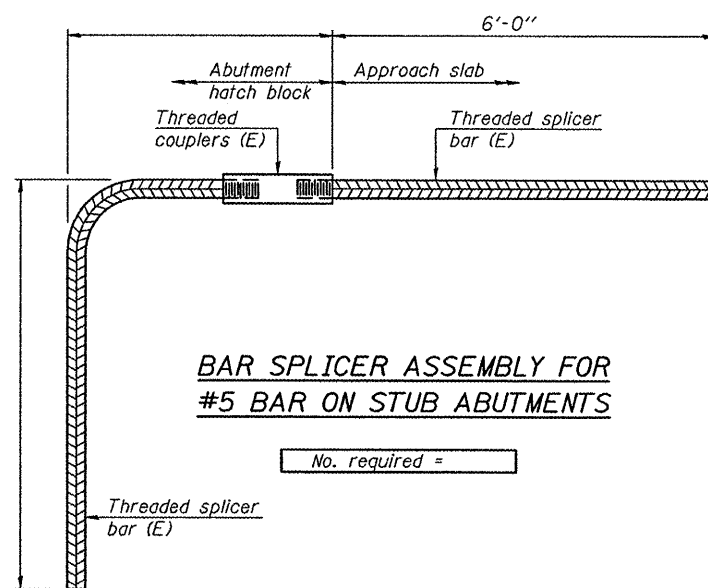
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See special provision for Mechanical Splicers.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 7-1-10

DESIGNED John Uehle
 CHECKED Brad Williams
 DRAWN John Uehle
 CHECKED Brad Williams

EXAMINED *Jay F. White*
 ENGINEER OF STRUCTURAL SERVICES
 PASSED *De Carol Brown*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE 3-16-2011

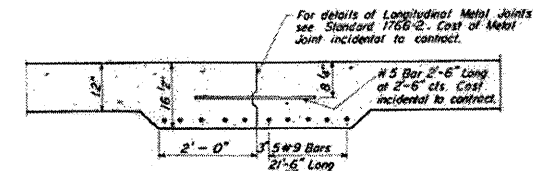
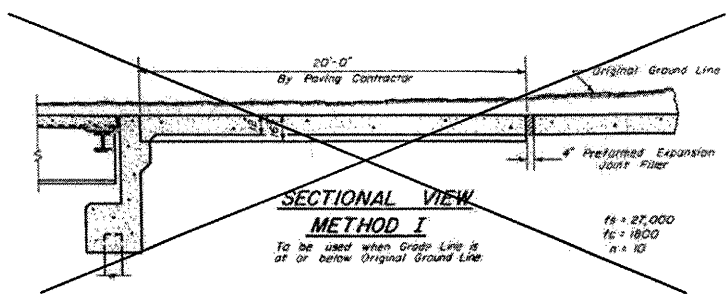
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 060-0027 & 0028

SHEET NO. 4 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-11HB-1	MADISON	10	6
CONTRACT NO. 76E25				
ILLINOIS FED. AID PROJECT				

**DETAILS OF BRIDGE APPROACHES
FOR FEDERAL AID INTERSTATE ROUTES**



OPTIONAL LONGITUDINAL CONSTRUCTION JOINT
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joint shall be located at the edge of Traffic Lane.

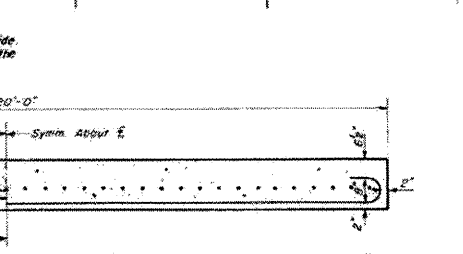
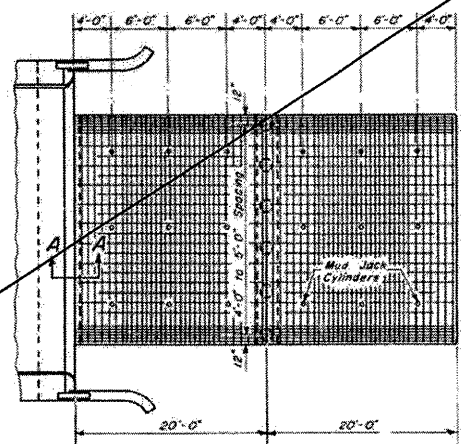
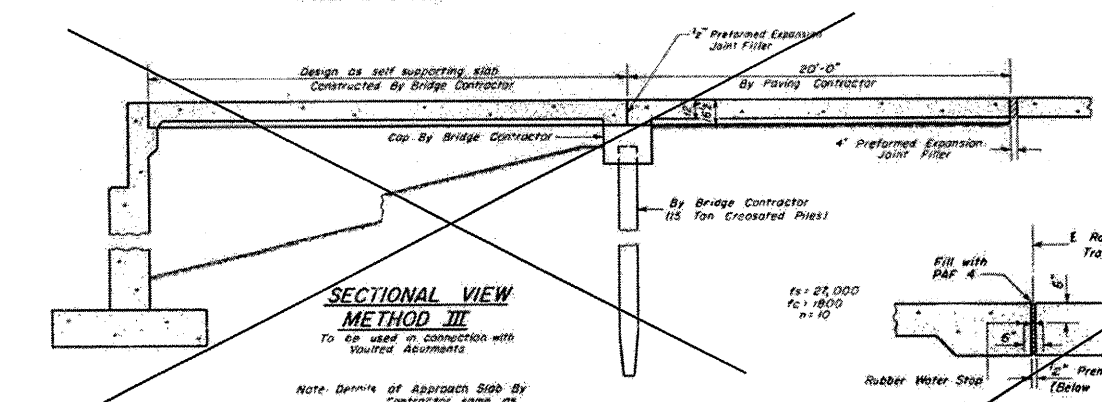
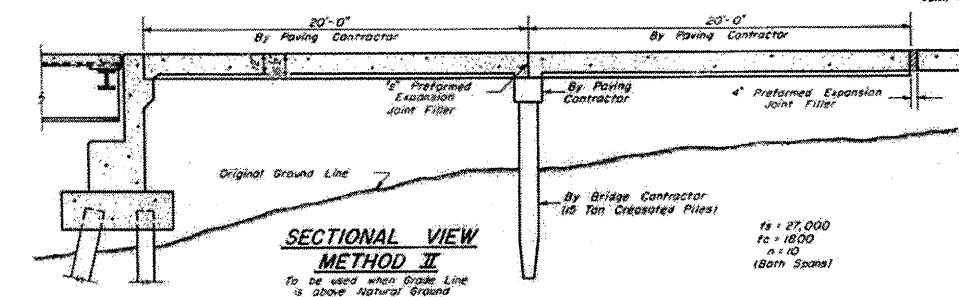
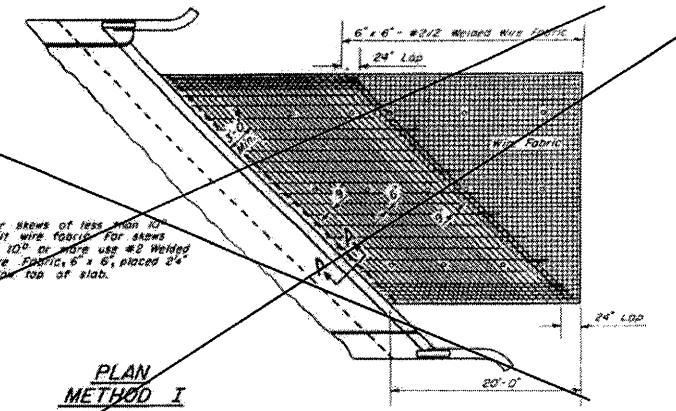
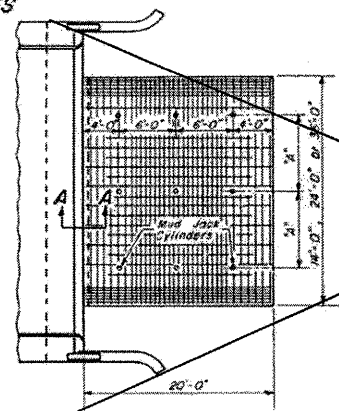
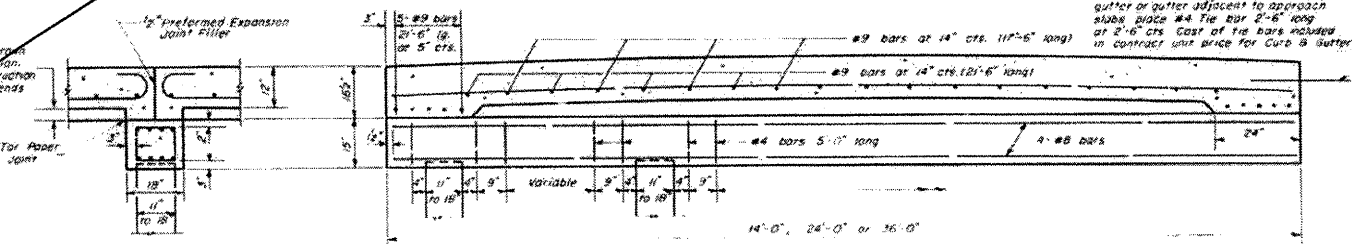
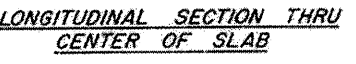
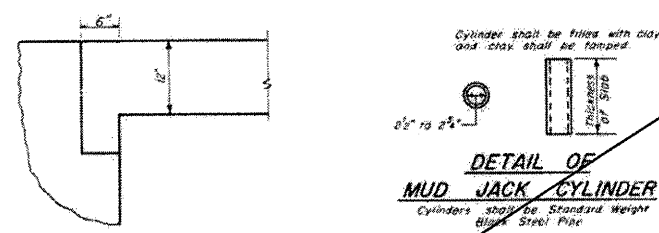


TABLE OF "A" DIMENSIONS

Width of Approach Slab	Dimension "A" (Spacing of Mud Jack Cylinders)
14'	6'-0"
24'	8'-0"
36'	2 Spaces at 8'-0"

Expanded Metal weighing not less than 78 Lbs. per 100 sq ft of 2 welded bar mat weighing not less than 78 Lbs. per 100 sq ft having members of equal size in both directions and spaced not over 6" apart may be used instead of the #2 Welded Wire Fabric, 6" x 6", provided the expanded metal or bar mat is furnished at no additional cost to the State.



GENERAL NOTES
The stop of slabs will be paid for at the contract unit price for PORTLAND CEMENT CONCRETE PAVEMENT (16'-0" x 12" x 16'-0"). The concrete cap will be paid for at the contract unit price for CLASS A CONCRETE.
All Reinforcement Bars, except the bars for curb and gutter or gutter, will be paid for at the contract unit price for REINFORCEMENT BARS.
The Welded Wire Fabric, Mud Jack Cylinders and Preformed Expansion Joint Filler shall be included in the unit price for PORTLAND CEMENT CONCRETE PAVEMENT (16'-0" x 12" x 16'-0").
Preformed Expansion Joint Filler shall conform to Section 129 of the Standard Specifications.
Width of Bridge Approach Slab pours shall be determined before the reinforcement bars are fabricated.
Quantities shown for Reinforcement Bars are for two(2) thickened edges only.

**FOR INFORMATION ONLY
1959 Bridge Approach Pavement
Standard 2138-1**

STANDARD 2138-1

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	REVISIONS	DATE
PASSED <i>DEC 18 1958</i>	WAS	7-2-59
ENGINEER OF BRIDGE AND TRUSS STRUCTURES	CET	6-22-59
APPROVED <i>DEC 18 1958</i>		
ENGINEER OF DESIGN		

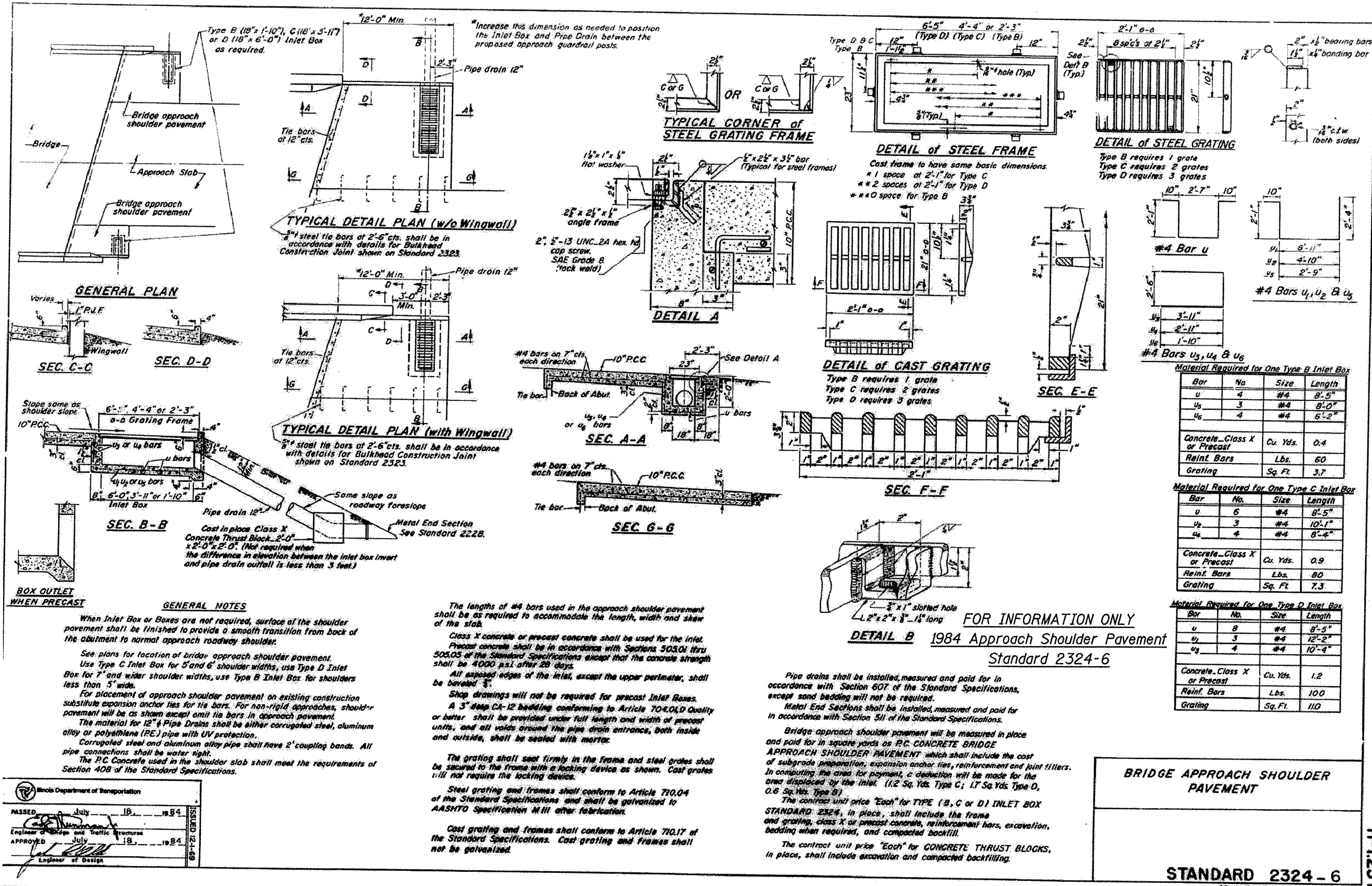
DESIGNED <i>John Uehle</i>	EXAMINED	DATE
CHECKED <i>Brad Williams</i>	ENGINEER OF STRUCTURAL SERVICES	
DRAWN <i>John Uehle</i>	PASSED	
CHECKED <i>Brad Williams</i>	ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOR INFORMATION SHEET (STANDARD 2138-1)
STRUCTURE NO. 060-0027 & 0028**

SHEET NO. 5 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11B-1	MADISON	10	7
CONTRACT NO. 76E25			ILLINOIS FED. AID PROJECT	



Material Required for One Type B Inlet Box

Bar	No.	Size	Length
u	4	#4	8'-5"
u ₂	3	#4	8'-0"
u ₆	4	#4	6'-2"

Concrete, Class X or Precast

Cu. Yds.	0.4
Reinf. Bars	Lbs. 60
Grating	Sq. Ft. 3.7

Material Required for One Type C Inlet Box

Bar	No.	Size	Length
u	6	#4	8'-5"
u ₂	3	#4	10'-1"
u ₆	4	#4	8'-4"

Concrete, Class X or Precast

Cu. Yds.	0.9
Reinf. Bars	Lbs. 80
Grating	Sq. Ft. 7.3

Material Required for One Type D Inlet Box

Bar	No.	Size	Length
u	8	#4	8'-5"
u ₂	3	#4	12'-2"
u ₆	4	#4	10'-4"

Concrete, Class X or Precast

Cu. Yds.	1.2
Reinf. Bars	Lbs. 100
Grating	Sq. Ft. 11.0

BRIDGE APPROACH SHOULDER PAVEMENT

STANDARD 2324-6

Illinois Department of Transportation

PASSED July 18, 1984

Engineer of Bridges and Traffic Structures

APPROVED July 18, 1984

Engineer of Design

The lengths of #4 bars used in the approach shoulder pavement shall be as required to accommodate the length, width and skew of the slab.

Class X concrete or precast concrete shall be used for the inlet. Precast concrete shall be in accordance with Sections 503.01 thru 503.05 of the Standard Specifications except that the concrete strength shall be 4000 p.s.i. after 28 days.

All exposed edges of the inlet, except the upper perimeter, shall be beveled.

Shop drawings will not be required for precast Inlet Boxes. A 3" deep CA-12 bedding conforming to Article 704.04 Quality or better shall be provided under full length and width of precast units, and all voids around the pipe drain entrance, both inside and outside, shall be sealed with mortar.

The grating shall seat firmly in the frame and steel grates shall be secured to the frame with a locking device as shown. Cast grates will not require the locking device.

Steel grating and frames shall conform to Article 710.04 of the Standard Specifications and shall be galvanized to AASHTO Specification M111 after fabrication.

Cast grating and frames shall conform to Article 710.17 of the Standard Specifications. Cast grating and frames shall not be galvanized.

FOR INFORMATION ONLY

DETAIL B 1984 Approach Shoulder Pavement Standard 2324-6

Pipe drains shall be installed, measured and paid for in accordance with Section 607 of the Standard Specifications, except sand bedding will not be required.

Metal End Sections shall be installed, measured and paid for in accordance with Section 511 of the Standard Specifications.

Bridge approach shoulder pavement will be measured in place and paid for in square yards as P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT which shall include the cost of subgrade preparation, expansion anchor, ties, reinforcement and joint fillers. In computing the area for payment, a deduction will be made for the area displaced by the inlet. (1.2 Sq. Yds. Type C; 1.7 Sq. Yds. Type D; 0.6 Sq. Yds. Type B)

The contract unit price "Each" for TYPE (B, C or D) INLET BOX STANDARD 2324, in place, shall include the frame and grating, class X or precast concrete, reinforcement bars, excavation, bedding when required, and compacted backfill.

The contract unit price "Each" for CONCRETE THRUST BLOCKS, in place, shall include excavation and compacted backfilling.

DESIGNED John Uehle
 CHECKED Brad Williams
 DRAWN John Uehle
 CHECKED Brad Williams

EXAMINED _____
 ENGINEER OF STRUCTURAL SERVICES

DATE _____

PASSED _____
 ENGINEER OF BRIDGES AND STRUCTURES

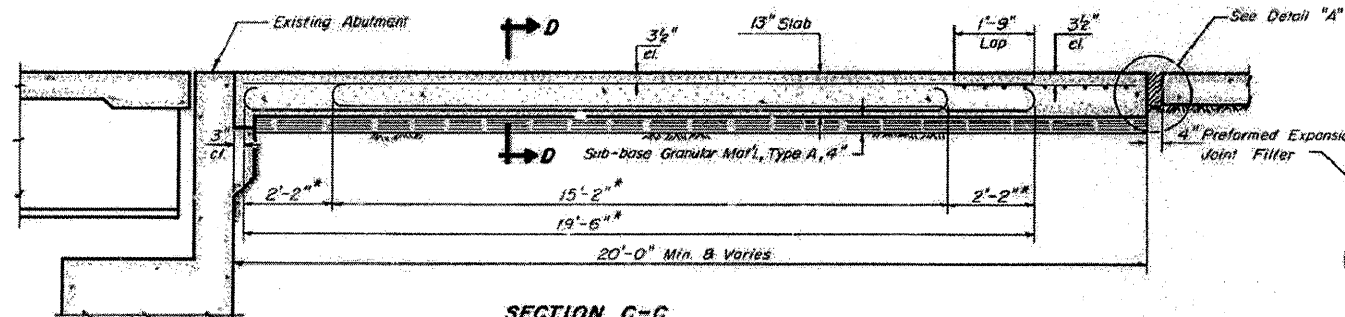
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION SHEET (STANDARD 2324-6)
STRUCTURE NO. 060-0027 & 0028

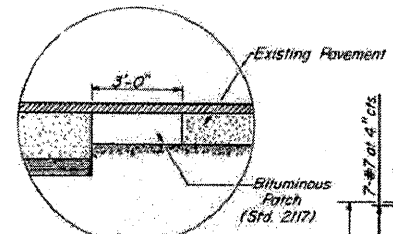
SHEET NO. 6 OF 8 SHEETS

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76E25	60-11B-1	MADISON	10	8

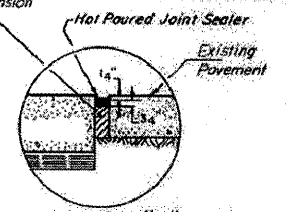
CONTRACT NO. 76E25
 ILLINOIS FED. AID PROJECT



SECTION C-C
*Stagger alternate #7 bars as shown on plan - full width.

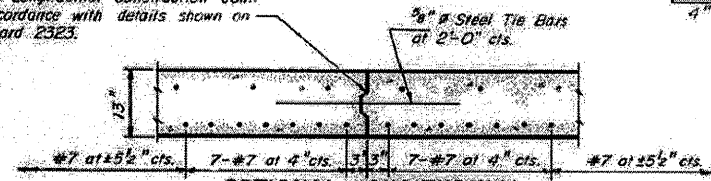


DETAIL "A"
(When bituminous surface is being placed)



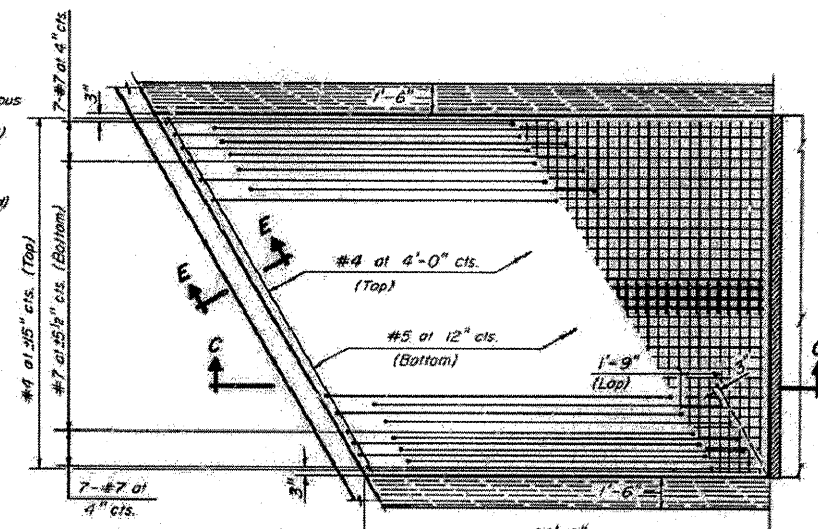
DETAIL "A"
(P.C.C. Pavement Construction)

Keyed Longitudinal Construction Joint in accordance with details shown on Standard 2323.

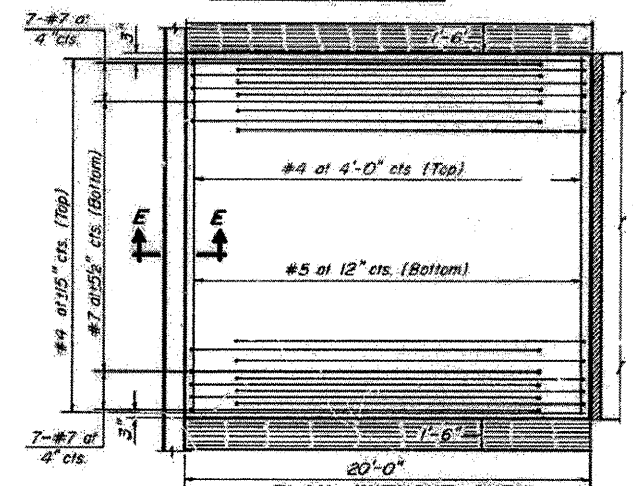


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

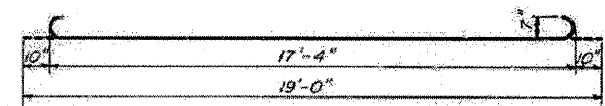
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



PLAN WITH SKEW

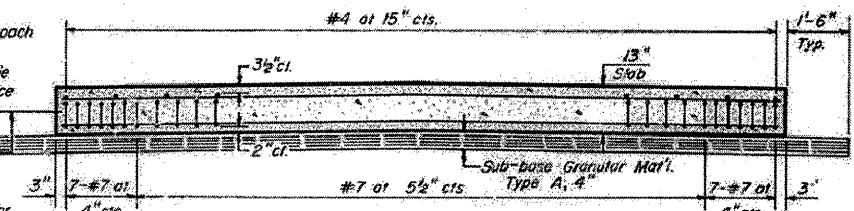


PLAN WITHOUT SKEW

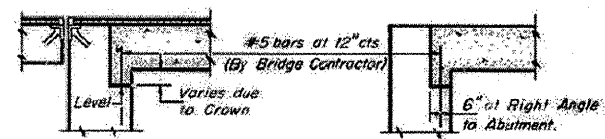


#7 BARS

When the road plans show curb and gutter, gutter, or bridge approach shoulder pavement adjacent to approach slabs, place 1/2 inch steel tie bars at 2-6 inch centers in accordance with the detail for Bulkhead Longitudinal Construction Joint shown on Standard 2323. Cost of the tie bars will be included in the contract unit price for the adjacent item. Transitions for curb and gutter or gutter shall be as shown on the plans.



SECTION D-D



SECTION E-E

Notes:
For skews of less than 10° omit wire fabric. For skews of 10° or more use Welded Wire Fabric, 6" x 6" - W5.5 x W5.5, placed 3/4" below top of slab. Expanded Metal weighing not less than 78 Pounds per 100 Sq. Ft. of a welded bar mat weighing not less than 78 Pounds per 100 Sq. Ft. having members of equal size in both directions and spaced not over 8" apart may be used instead of the Welded Wire Fabric, 6" x 6" - W5.5 x W5.5, provided the expanded metal or bar mat is furnished at no additional cost to the State. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M 31 or M 53, Grade 60.

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f_c = 3500 \text{ psi}$
 $n = 8.5$

GENERAL NOTES

The cost of tie bars, expansion joint filler, sub-base, welded wire fabric and bituminous prime when required shall be considered as included in the unit cost of the Bridge Approach Pavement.

Preformed Expansion Joint Filler shall conform to A.A.S.H.T.O. 715-10 of the Standard Specifications. Width of Bridge Approach Slab shall be determined before the reinforcement bars are fabricated.

The bituminous patch, when required, will be paid for in accordance with Section 620 of the Standard Specifications.

FOR INFORMATION ONLY
1986 Bridge Approach Pavement
Standard 2382-2 (Sheet 1 of 2)

BRIDGE APPROACH PAVEMENT

Sheet 1 of 2
STANDARD 2382-2

Illinois Department of Transportation
APPROVED Mar. 10, 1986
APPROVED Mar. 10, 1986

DESIGNED John Uehle	EXAMINED _____	DATE _____
CHECKED Brad Williams	ENGINEER OF STRUCTURAL SERVICES	
DRAWN John Uehle	PASSED _____	
CHECKED Brad Williams	ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION SHEET (STANDARD 2382-2 SHEET 1)
STRUCTURE NO. 060-0027 & 0028

SHEET NO. 7 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-11B-1	MADISON	10	9
			CONTRACT NO. 76E25	
ILLINOIS FED. AID PROJECT				

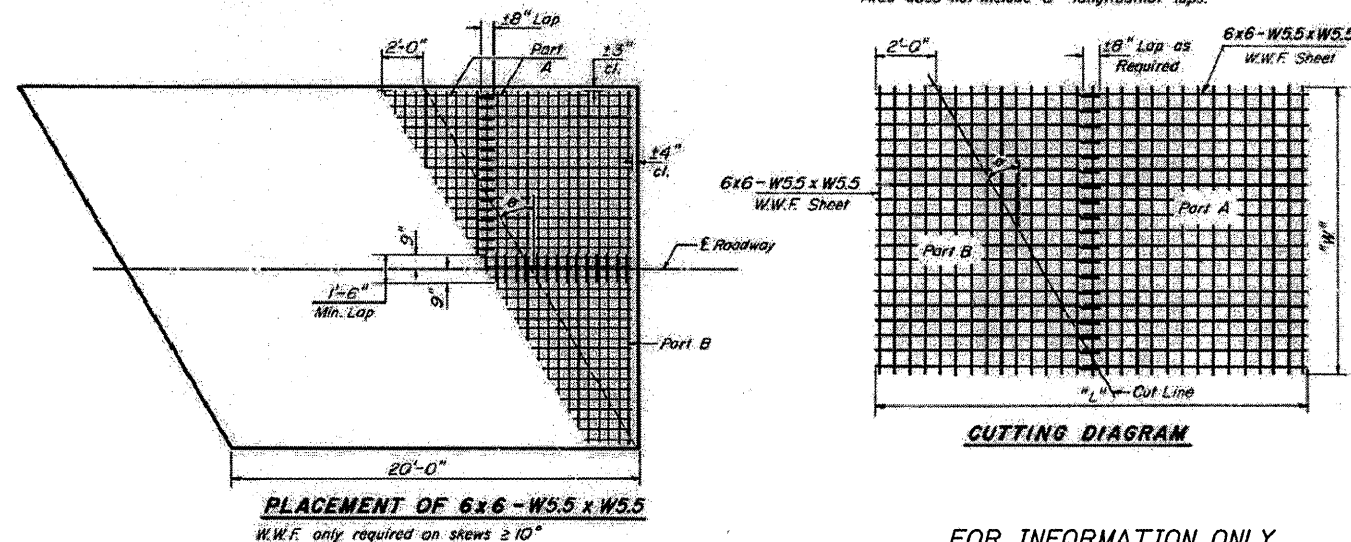
Note: The notation for the number of bars given as "4 x 2" indicates 4 lines of bars with 2 lengths per line. Min. bar lap = 1'-3"

Skew Angle Degrees	Bottom Reinforcement		Top Reinforcement		Reinforcement (Total Weight) (Pounds)	Slab Area (Sq.Yds.)	6x6-W5.5xW5.5 W.W.F.	
	Transverse #5	Longitudinal #7	Transverse #4	Longitudinal #4			Dimensions L(ft)xW(ft)	Area* (Sq.Yds.)
18'-0" PAVEMENT								
0	20	17'-6"	6	17'-6"	2300	40.0		
5	20	17'-7"	6	17'-7"	2302	41.6		
10	20	17'-9"	6	17'-9"	2306	43.2	7'-0" x 9'-6"	7.4
15	20	18'-1"	5	18'-1"	2303	44.8	8'-6" x 9'-6"	9.0
20	19	18'-8"	5	18'-8"	2297	46.6	10'-6" x 9'-6"	11.1
25	18	19'-4"	5	19'-4"	2292	48.4	12'-3" x 9'-6"	12.9
30	18	20'-3"	5	20'-3"	2313	50.4	14'-3" x 9'-6"	15.0
35	17	21'-4"	5	21'-4"	2315	52.6	16'-6" x 9'-6"	17.4
40	16	22'-10"	4	22'-10"	2307	55.1	19'-0" x 9'-6"	20.1
45	14	24'-9"	4	24'-9"	2293	58.0	21'-9" x 9'-6"	23.0
50	13	27'-3"	4	27'-3"	2308	61.5	25'-6" x 9'-6"	26.9
55	12x2	15'-9"	3x2	15'-9"	2322	65.7	29'-9" x 9'-6"	31.4
60	10x2	18'-0"	3x2	18'-0"	2313	71.2	35'-3" x 9'-6"	37.2
24'-0" PAVEMENT								
0	20	23'-6"	6	23'-6"	3019	53.3		
5	20	23'-7"	6	23'-7"	3021	56.1		
10	20	23'-10"	6	23'-10"	3028	58.9	8'-0" x 12'-6"	11.1
15	20	24'-4"	5	24'-4"	3024	61.9	10'-3" x 12'-6"	14.2
20	19	25'-0"	5	25'-0"	3014	64.9	12'-6" x 12'-6"	17.4
25	18	25'-11"	5	25'-11"	3008	68.2	15'-0" x 12'-6"	20.8
30	18	27'-2"	5	27'-2"	3036	71.8	17'-9" x 12'-6"	24.7
35	17	28'-8"	5	28'-8"	3039	75.7	20'-9" x 12'-6"	28.8
40	16x2	16'-0"	4x2	16'-0"	3055	80.2	24'-0" x 12'-6"	33.3
45	14x2	17'-3"	4x2	17'-3"	3031	85.3	27'-6" x 12'-6"	38.2
50	13x2	18'-10"	4x2	18'-10"	3046	91.4	32'-9" x 12'-6"	45.5
55	12x2	21'-1"	3x2	21'-1"	3047	99.0	38'-3" x 12'-6"	53.1
60	10x2	24'-0"	3x2	24'-0"	3032	108.7	45'-6" x 12'-6"	63.2

*Area does not include 8" longitudinal laps.
W.W.F. = Welded Wire Fabric

Skew Angle Degrees	Bottom Reinforcement		Top Reinforcement		Reinforcement (Total Weight) (Pounds)	Slab Area (Sq.Yds.)	6x6-W5.5xW5.5 W.W.F.	
	Transverse #5	Longitudinal #7	Transverse #4	Longitudinal #4			Dimensions L(ft)xW(ft)	Area* (Sq.Yds.)
26'-0" PAVEMENT								
0	20	25'-6"	6	25'-6"	3238	57.8		
5	20	25'-7"	6	25'-7"	3240	61.1		
10	20	25'-11"	6	25'-11"	3249	64.4	8'-6" x 13'-6"	12.8
15	20	26'-5"	5	26'-5"	3243	67.8	11'-0" x 13'-6"	16.8
20	19	27'-2"	5	27'-2"	3233	71.4	13'-6" x 13'-6"	20.3
25	18	28'-2"	5	28'-2"	3227	75.3	16'-3" x 13'-6"	24.4
30	18x2	15'-3"	5x2	15'-3"	3278	79.5	19'-0" x 13'-6"	28.5
35	17x2	16'-1"	5x2	16'-1"	3282	84.1	22'-3" x 13'-6"	33.4
40	16x2	17'-2"	4x2	17'-2"	3269	89.3	25'-9" x 13'-6"	38.6
45	14x2	18'-6"	4x2	18'-6"	3243	95.3	30'-0" x 13'-6"	45.0
50	13x2	20'-4"	4x2	20'-4"	3264	102.5	35'-0" x 13'-6"	52.5
55	12x2	22'-9"	3x2	22'-9"	3265	111.4	41'-3" x 13'-6"	61.9
60	10x2	26'-0"	3x2	26'-0"	3251	122.8	49'-0" x 13'-6"	73.5
36'-0" PAVEMENT								
0	20x2	18'-3"	6x2	18'-3"	4471	80.0		
5	20x2	18'-4"	6x2	18'-4"	4475	86.3		
10	20x2	18'-6"	6x2	18'-6"	4483	92.7	10'-0" x 18'-6"	20.6
15	20x2	18'-10"	5x2	18'-10"	4475	99.3	13'-6" x 18'-6"	27.7
20	19x2	19'-5"	5x2	19'-5"	4462	106.2	17'-0" x 18'-6"	34.9
25	18x2	20'-2"	5x2	20'-2"	4455	113.6	20'-6" x 18'-6"	42.1
30	18x2	21'-0"	5x2	21'-0"	4492	121.6	24'-9" x 18'-6"	50.8
35	17x2	22'-3"	5x2	22'-3"	4501	130.4	29'-0" x 18'-6"	59.6
40	16x2	23'-9"	4x2	23'-9"	4483	140.4	33'-9" x 18'-6"	69.4
45	14x2	25'-8"	4x2	25'-8"	4450	152.0	39'-6" x 18'-6"	81.2
50	13x2	28'-2"	4x2	28'-2"	4477	165.8	46'-6" x 18'-6"	95.6
55	12x3	21'-4"	3x3	21'-4"	4492	182.8	55'-0" x 18'-6"	113.0
60	10x3	24'-4"	3x3	24'-4"	4471	204.7	65'-9" x 18'-6"	135.1

*Area does not include 8" longitudinal laps.



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BRIDGE APPROACH PAVEMENT

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STANDARD 2382-2

Illinois Department of Transportation

APPROVED Mar. 10 1986
James J. Kucharski
Engineer of Bridges and Structures

APPROVED Mar. 10 1986
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Engineer of Design