

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. SCHEDULES
6. TRAFFIC CONTROL AND PROTECTION, STANDARD 701423
7. TEMPORARY CONCRETE BARRIER
- 8 - 10. STRUCTURE PLANS

STANDARDS

- 701101-02 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER

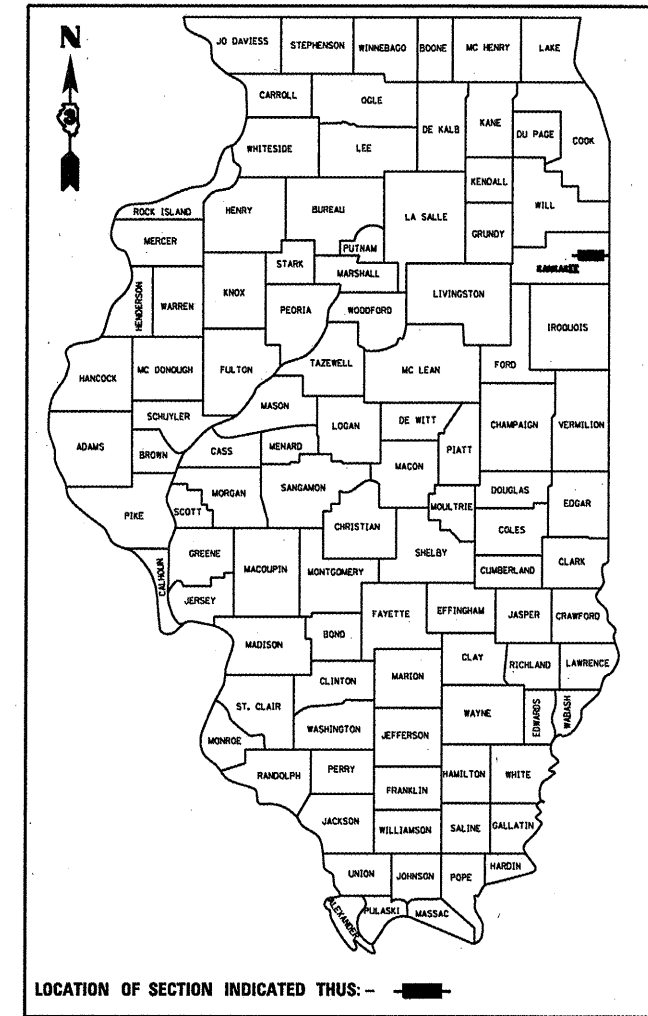
**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

**FAP ROUTE 330 (IL 17)
SECTION (1R-B)BP**

**BRIDGE PAINTING
KANKAKEE COUNTY
C-93-123-11**

D-93-084-11



OTHER PRINCIPAL ARTERIAL

FAP RTE. 330 (IL 17)

2009

ADT	10200
P.V.	83.83%
S.U.	6.86%
M.U.	9.31%

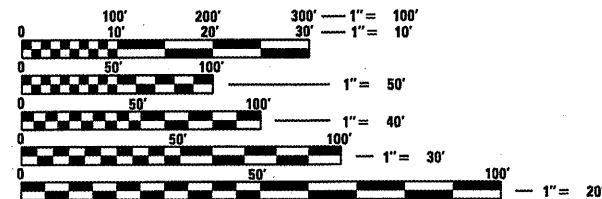
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 11-2 20 11
Eric S. Therkaldon
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9 20 11
Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

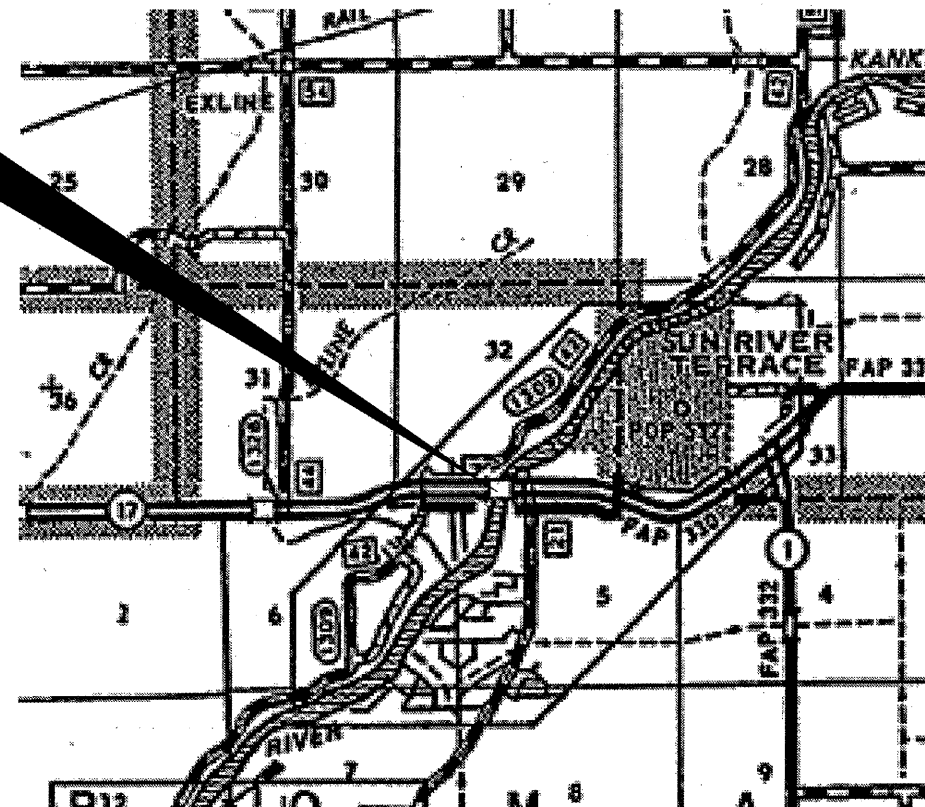
December 9 20 11
William R. Proyer
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

PROJECT LOCATION
SN 046-0039 (EB)
SN 046-0040 (WB)
OVER THE KANKAKEE RIVER
4.4 MILES EAST OF KANKAKEE



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



**LOCATION MAP
NOT TO SCALE**

POINT LOCATION

DISTRICT 3 NO: (815) 434-6131

PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
TOWNSHIP: AROMA

CONTRACT NO. 66B44

CONTRACT NO. 66B44

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE 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 THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LICENSED TO DISPOSE OF LEAD PAINT RESIDUE HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES.

THE EXISTING STRUCTURAL STEEL ON SN 046-0039 (EB) AND SN 046-0040 (WB) CONTAINS LEAD. THE CONTRACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD PAINT ON THIS PROJECT.

THE SSPC-OP1 AND SSPC-OP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.

COMMITMENTS

LOCATION 1: SN 046-0039 (EB) & LOCATION 2: SN 046-0040 (WB)
 CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXTERIOR AND INTERIOR SURFACES OF THE BEAMS, DIAPHRAGMS, BEARING ASSEMBLIES AND ALL OTHER ASSOCIATED STEEL COMPONENTS SHALL BE CLEANED PER "NEAR WHITE BLAST CLEANING - SSPC-SP10". ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF "PAINT SYSTEM 1 - OZ/E/U". THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE "GRAY, MUNSELL NO. 5B 7/1". THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND THE BOTTOM OF THE BOTTOM FLANGE AND BEARING ASSEMBLIES OF FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 4/8".

DATE: 11-2-11

PREPARED BY:

Don Bonin

DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY:

Herb Jones

DISTRICT CONSTRUCTION ENGINEER

Ray Shiley

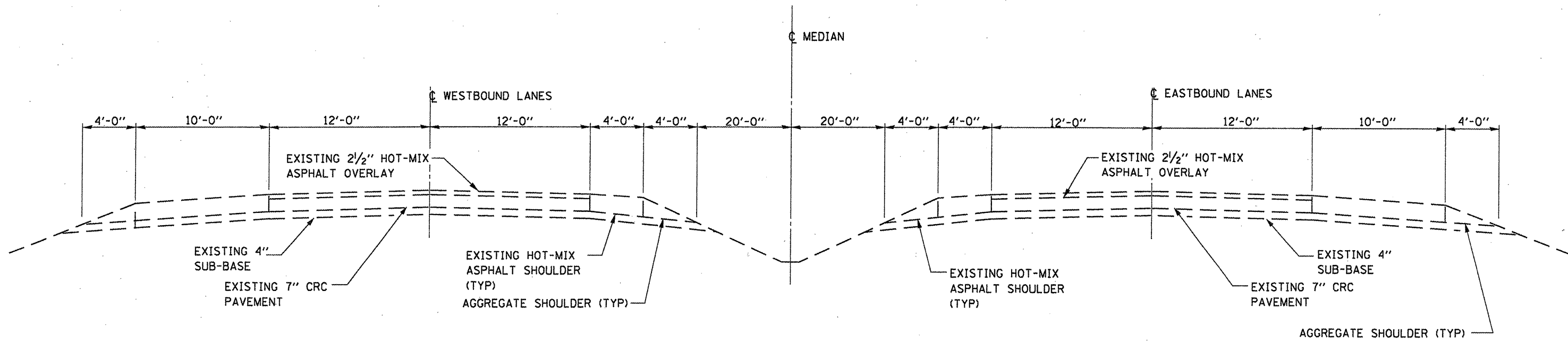
DISTRICT MATERIALS ENGINEER

Bruce A. Tucker

DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\woodshankr1\d0268107	366B44-shr-details.dgn	DRAWN - RON WOODSHANK	REVISED -			330	(R-B)BP	KANKAKEE	10	2	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 66B44					
	PLOT DATE = 11/2/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____	TO STA. _____				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				STATE FUNDS 100% STATE STRUCTURE 0014 RURAL
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1	1
67100100	MOBILIZATION	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	536	536
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1608	1608
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1	1
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3	3



TYPICAL SECTION
IL 17
LOOKING EAST

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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
 SCALE: _____ SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	(R-B)BP	KANKAKEE	10	4
CONTRACT NO. 66B44			ILLINOIS FED. AID PROJECT	

SCHEDULE - CLEANING AND PAINTING

LOCATION	CLEANING & PAINTING STRUCTURAL STEEL, LOCATION 1	CLEANING & PAINTING STRUCTURAL STEEL, LOCATION 2	CONTAINMENT & DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	CONTAINMENT & DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	BRIDGE CLEANING & PAINTING WARRANTY NUMBER 1	BRIDGE CLEANING & PAINTING WARRANTY NUMBER 2
	L SUM	L SUM	L SUM	L SUM	L SUM	L SUM
SN 046-0039 (EB)	1		1		1	
SN 046-0040 (WB)		1		1		1
TOTAL	1	1	1	1	1	1

SCHEDULE - TRAFFIC CONTROL

LOCATION	TRAFFIC CONTROL & PROTECTION, STANDARD 701423	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3
	EACH	FOOT	FOOT	EACH	EACH
SN 046-0039 (EB)	0.5	536	536	1	1
SN 046-0040 (WB)	0.5		1072		2
TOTAL	1	536	1608	1	3

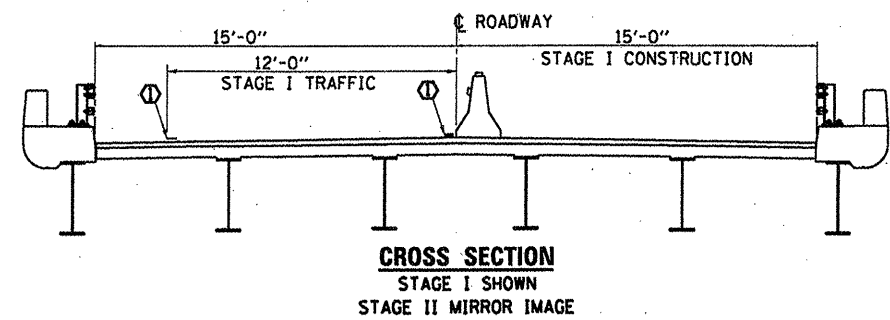
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PLOT DATE = 11/2/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

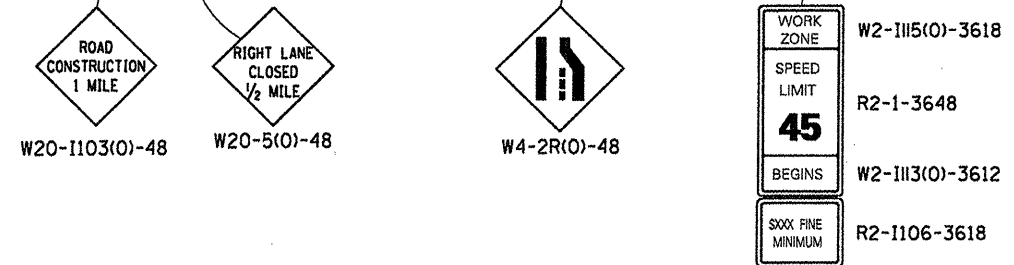
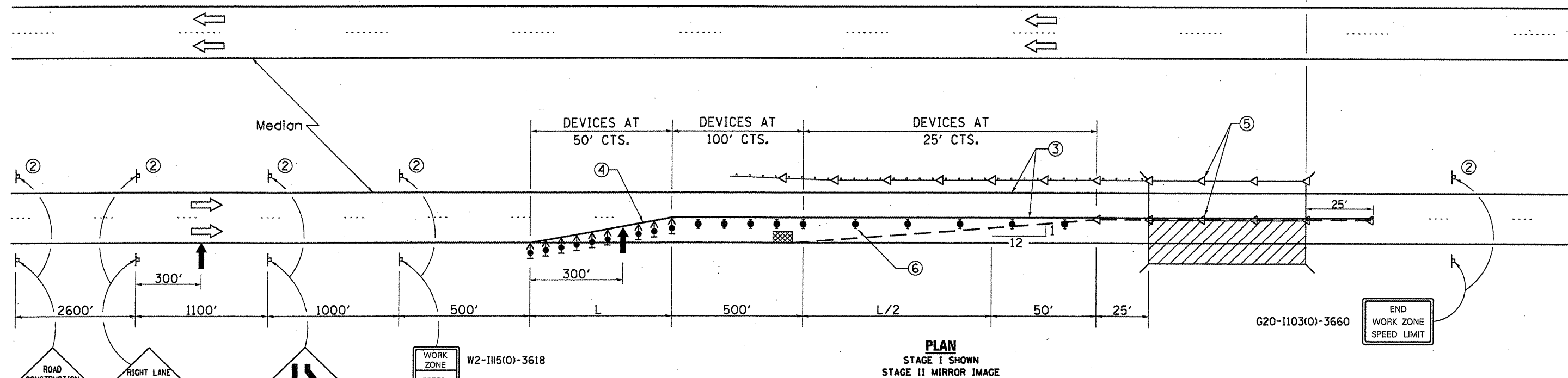
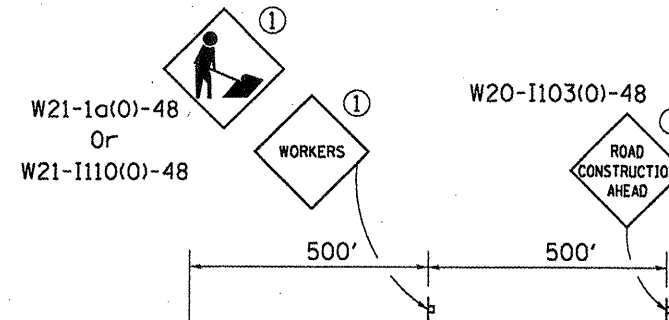
SCHEDULES

SCALE: _____ SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 330	SECTION (IR-B)BP	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 5
CONTRACT NO. 66B44				
ILLINOIS FED. AID PROJECT				



① EXISTING PAVEMENT MARKING



SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ↕ Direction indicator barricade with steady burn monodirectional light
- ⊥ Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- - - - - Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▣ Impact attenuator

- ① Undivided roadway only with left lane closure in opposite direction.
- ② Sign in median may be omitted when median is less than 10'.
- ③ Existing pavement markings or temporary pavement marking shall be on both sides of the open lane. The right edge line shall be white and the left edge line shall be yellow.
- ④ Temporary pavement marking shall be placed as shown and removed when work has been completed. Cost of placing and removing the temporary pavement marking shall not be paid for separately but shall be included in the cost of the traffic control standard specified.
- ⑤ Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be crystal and markers on left shall be amber. See Standards 704001 and 635001.
- ⑥ Verticle barricades shall not be used in lane shift taper.

GENERAL NOTES

This standard is used where at any time any vehicle, equipment, workers or their activities will encroach on the pavement or on the shoulder within 24" of the edge of pavement for daylight operation exceeding one day and where temporary concrete barrier is utilized.

When work is being performed in the left lane, the set up would be a mirror image to what is shown.

Calculate L as follows:

NORMAL POSTED SPEED	FORMULAS
45 mph (80 km/h) or more	English L=(W)(S)
W = Width of offset in feet (meters).	
S = Normal posted speed in mph (km/h).	

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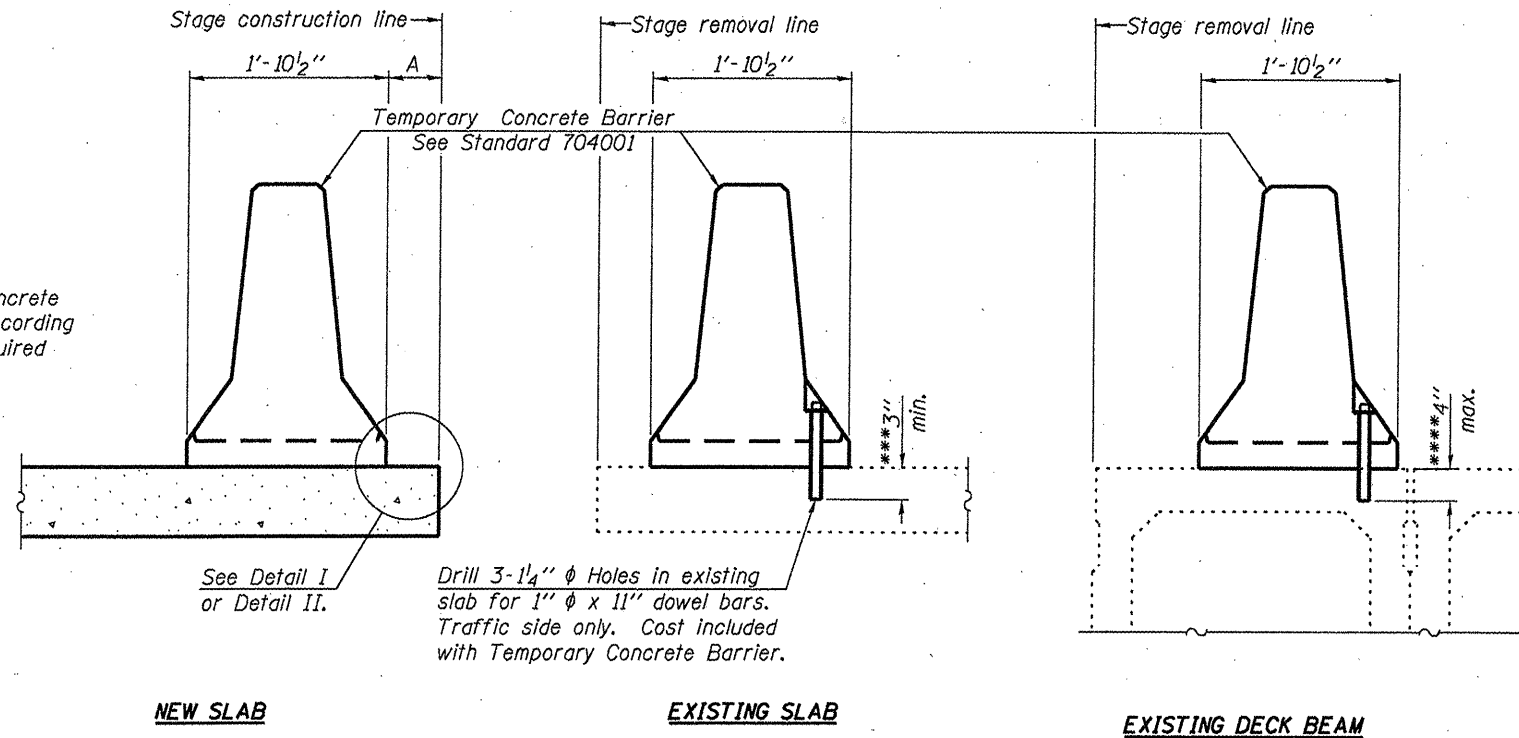
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION,
(SPECIAL)

F.A.P. RTE. 330	SECTION (IR-B)BP	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 6
CONTRACT NO. 66B44			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

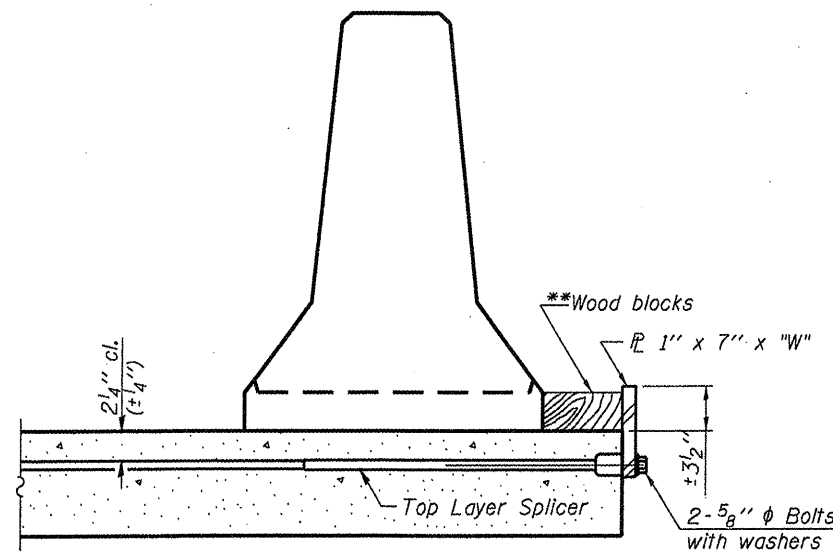
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place Inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

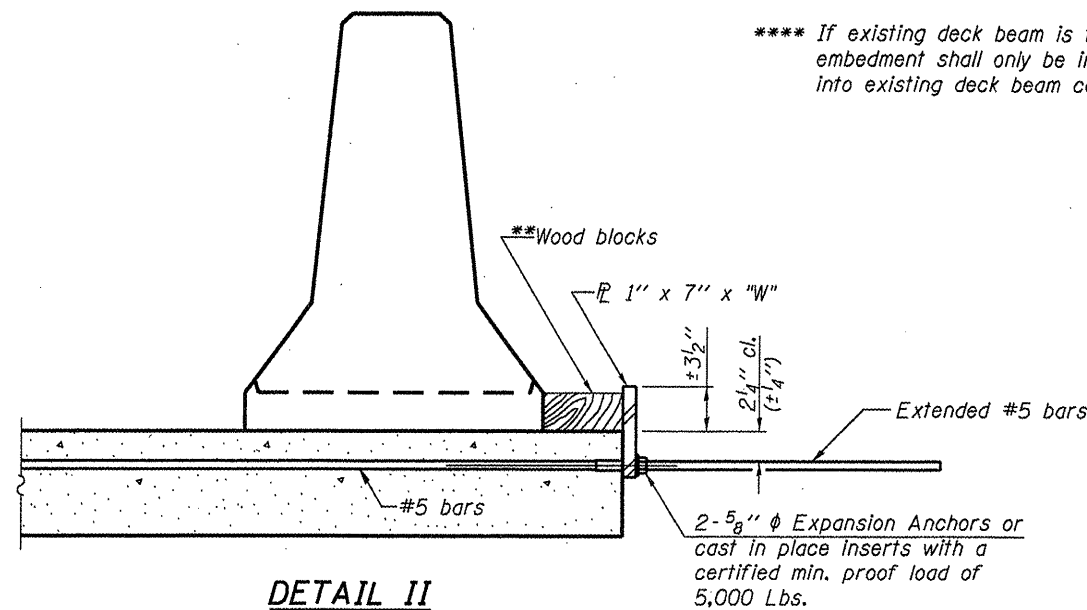
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

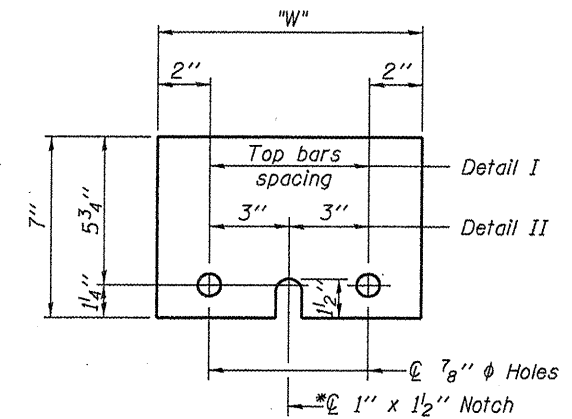
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

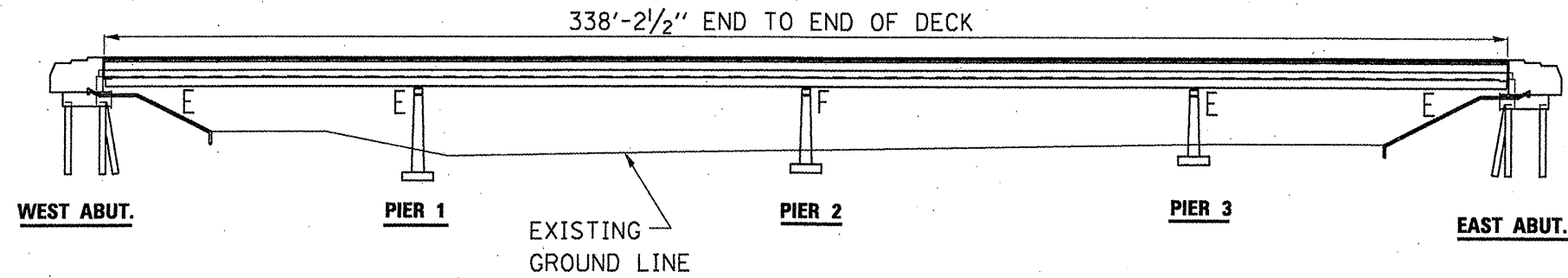
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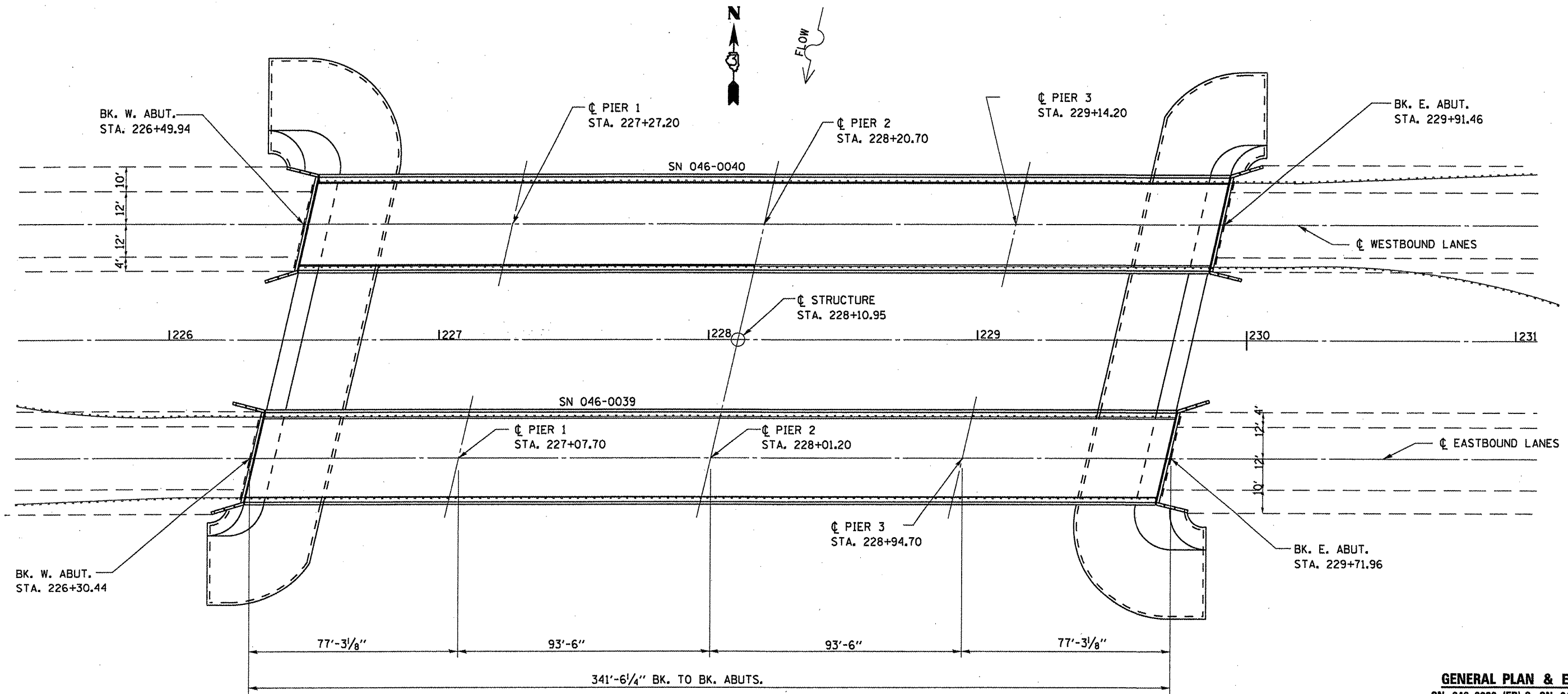
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
FOR SN 046-0039 & SN 046-0040

F.A.P. RTE. 330	SECTION (R-B)BP	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 7
SCALE: _____			CONTRACT NO. 66B44	
SHEET NO. 1 OF 1 SHEETS			ILLINOIS FED. AID PROJECT	



ELEVATION



GENERAL PLAN & ELEVATION
 SN 046-0039 (EB) & SN 046-0040 (WB)
 OVER KANKAKEE RIVER
 SECTION (1R-B)BP
 KANKAKEE COUNTY
 STA. 228 + 10.95

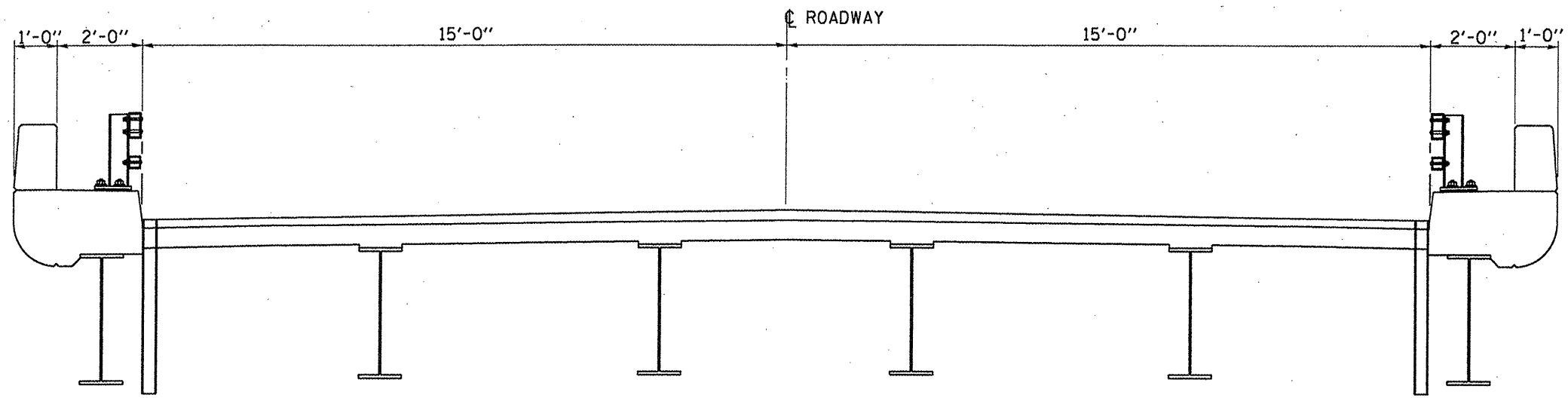
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

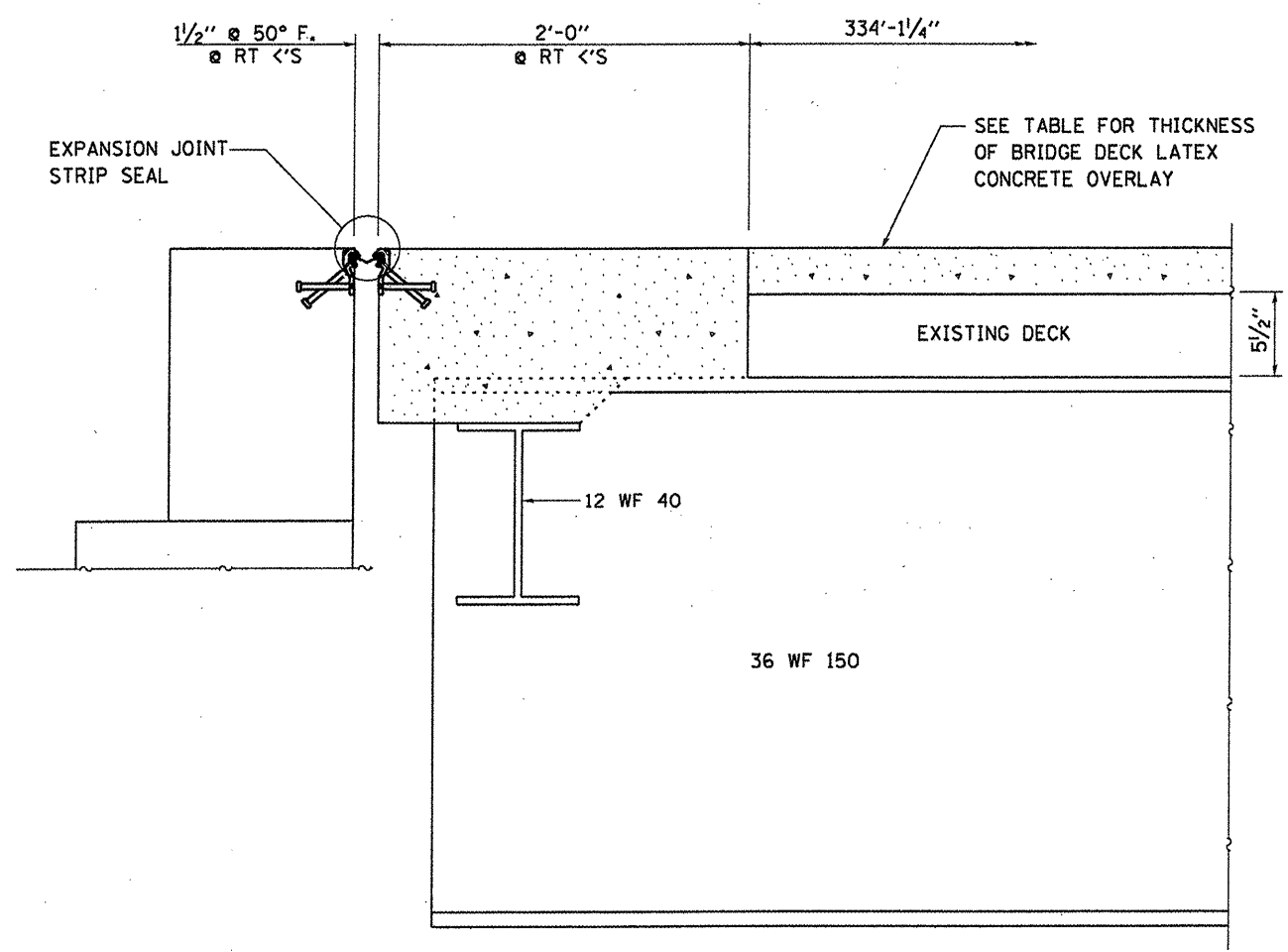
GENERAL PLAN & ELEVATION
FOR SN 046-0039 & SN 046-0040

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION (1R-B)BP	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 8
CONTRACT NO. 66B44			ILLINOIS FED. AID PROJECT	



CROSS SECTION



SECTION AT ABUTMENT

BRIDGE DECK LATEX CONCRETE OVERLAY

DISTANCE FROM ϕ	THICKNESS
0	3.41"
1'	3.23"
2'	3.06"
3'	2.90"
4'	2.75"
5'	2.67"
6'	2.59"
7'	2.53"
8'	2.51"
9'	2.50"
10'	2.52"
11'	2.57"
12'	2.65"
13'	2.70"
14'	2.78"
15'	2.85"

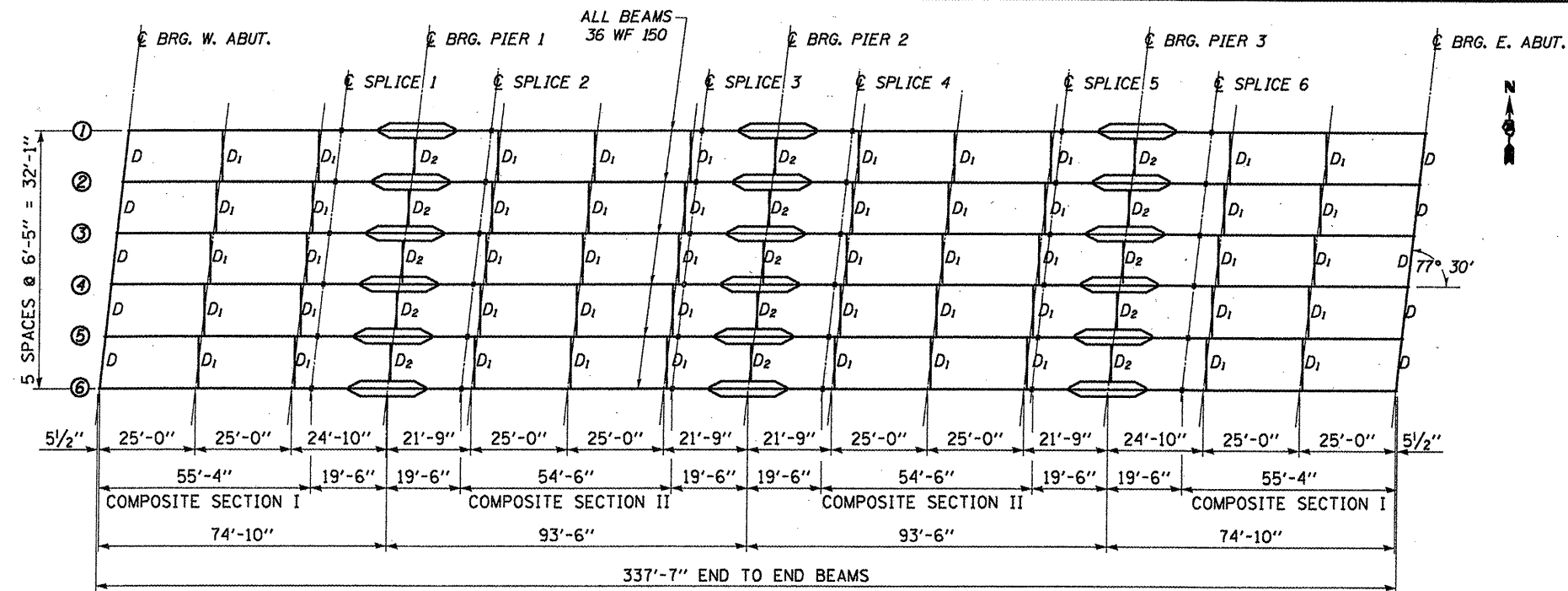
SUPERSTRUCTURE DETAILS
 SN 046-0039 (EB) & SN 046-0040 (WB)
 OVER KANKAKEE RIVER
 SECTION (1R-B)BP
 KANKAKEE COUNTY
 STA. 228 + 10.95

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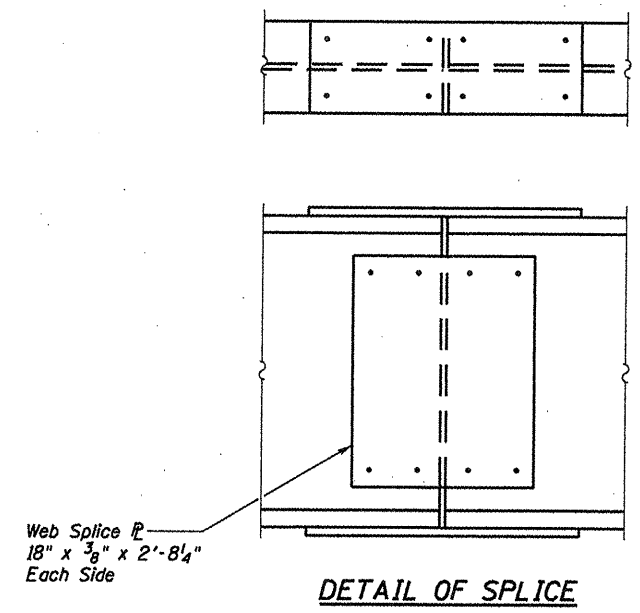
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
FOR SN 046-0039 & SN 046-0040
 SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

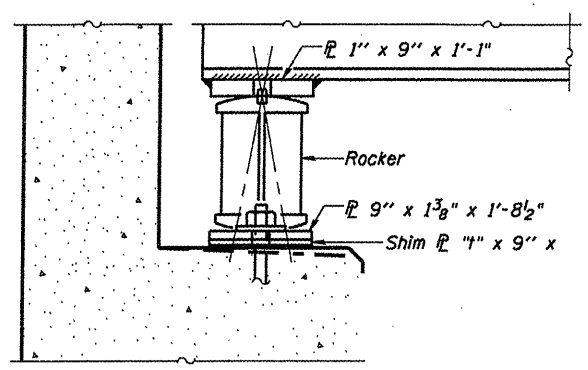
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330	(1R-B)BP	KANKAKEE	10	9
CONTRACT NO. 66B44			ILLINOIS FED. AID PROJECT	



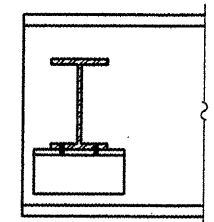
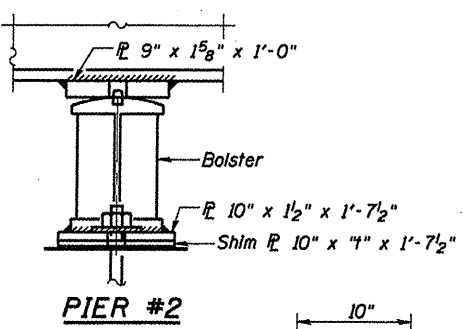
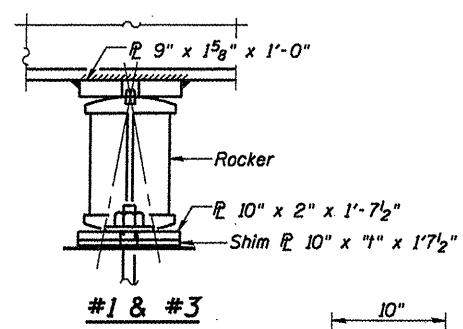
STEEL FRAMING PLAN



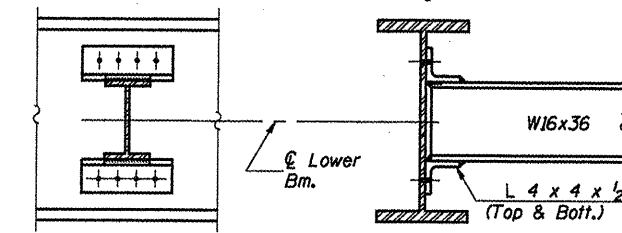
DETAIL OF SPLICE



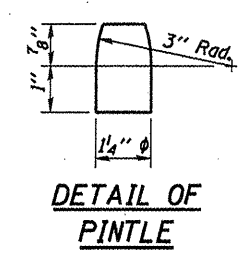
SECTION AT ABUTMENT



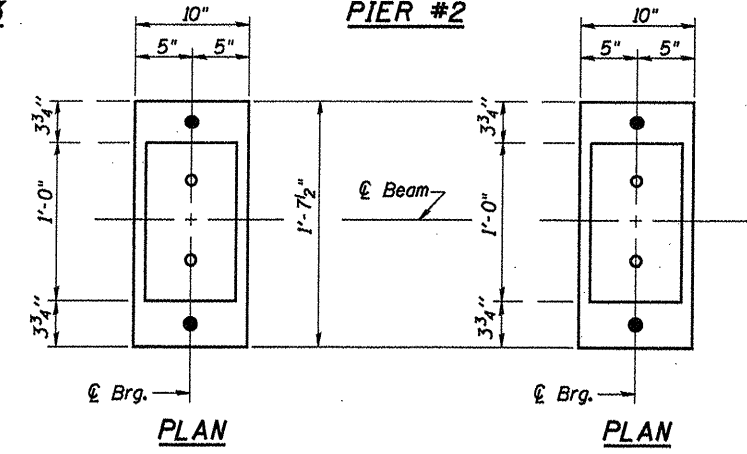
DIAPHRAGM D
Required



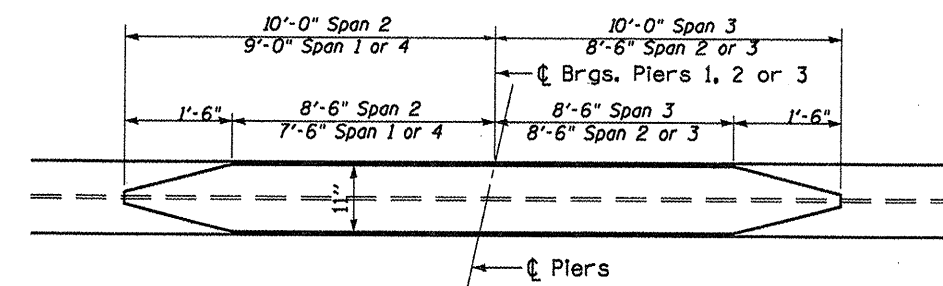
DIAPHRAGM D1 & D2
100-D1 Required
30-D2 Required



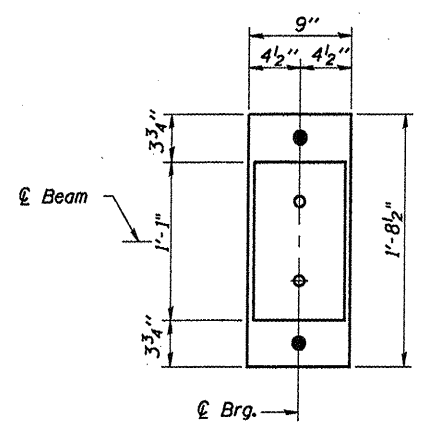
DETAIL OF PINTLE



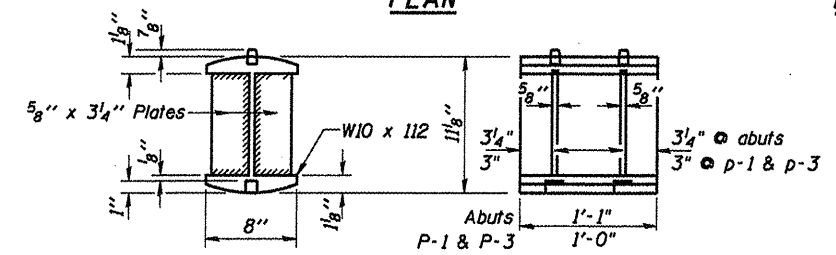
PLAN



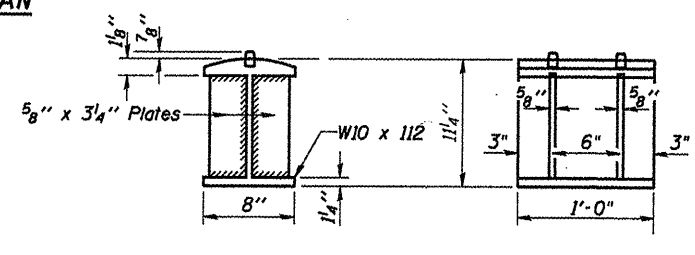
DETAIL OF COVER PLATES
(At Piers 1, 2 & 3)



PLAN



DETAIL OF ROCKER
AT ABUTS, PIERS 1 & 3



DETAIL OF BOLSTER
AT PIER 2

STRUCTURAL STEEL DETAILS
SN 046-0039 (EB) & SN 046-0040 (WB)
OVER KANKAKEE RIVER
SECTION (1R-B)BP
KANKAKEE COUNTY
STA. 228 + 10.95

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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
FOR SN 046-0039 & SN 046-0040

F.A.P. RTE. 330	SECTION (1R-B)BP	COUNTY KANKAKEE	TOTAL SHEETS 10	SHEET NO. 10
SCALE: _____			CONTRACT NO. 66B44	
SHEET NO. 3 OF 3 SHEETS			ILLINOIS FED. AID PROJ. CT	