

64E18

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL-84	(1,2)B-2-M	HENRY & ROCK ISLAND	23	1

D-92-067-08

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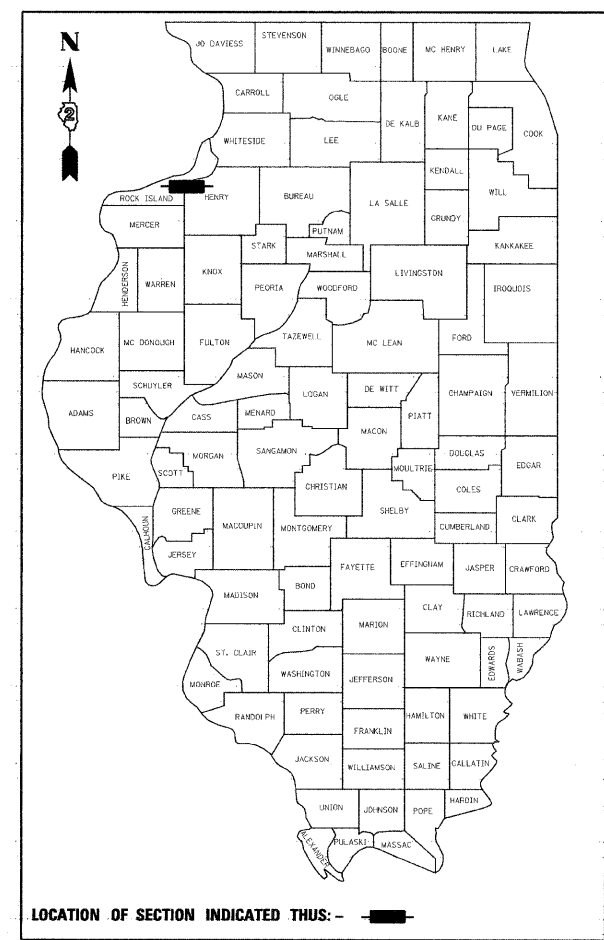
STANDARDS

701901-1	TRAFFIC CONTROL DEVICES
701423-3	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
704001-5	TEMPORARY CONCRETE BARRIER
780001-2	TYPICAL PAVEMENT MARKINGS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

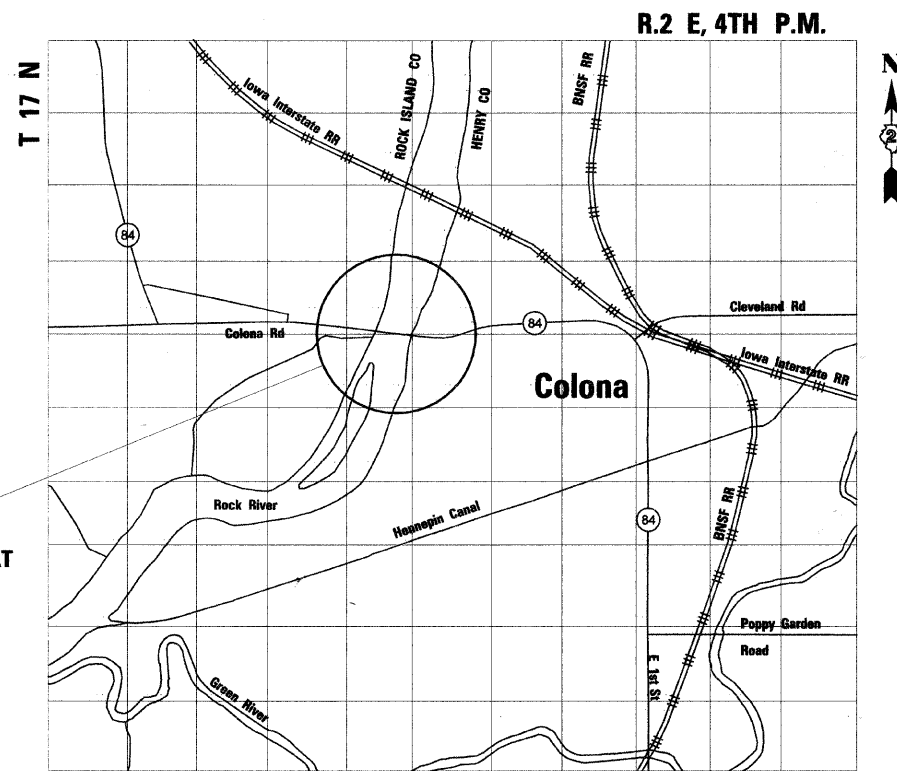
PLANS FOR EXPANSION JOINT REPLACEMENT

OF THE BRIDGE (SN 037-0128)
CARRYING IL-84 OVER THE ROCK RIVER
FAP ROUTE 595 (IL-84), SECTION (1,2)B-2-M
HENRY



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED : 55 MPH
POSTED SPEED : 55 MPH
ADT : 5800 (2005)
PV : 84%
SU : 4%
MU : 12%

PROJECT LOCATION
INCLUDES THE REMOVAL OF AND REPLACEMENT EXPANSION JOINTS AT NO. 037-0128 STA. 189 + 44.00



JULIE 1-800-892-0123

DISTRICT 2
TOWNSHIP: HAMPTON

CONTRACT NO. 64E18
JOB NO. D-92-067-08

PLANS PREPARED BY: SOODAN & ASSOCIATES, INC.
100 NORTH LASALLE ST., SUITE 1800
CHICAGO, ILLINOIS 60602



Hakim H. Taiyebi
HAKIM H. TAIYEBI
ILLINOIS LICENSED
STRUCTURAL ENGINEER
NO. 081-003266
LICENSE EXP. 11-30-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 6, 2009
George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 2, 2009
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	1,21B-2M	HENRY and ROCK ISLAND	23	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT 64E18

SUMMARY OF QUANTITY

CODE NO.	ITEM	UNIT	100% STATE QUANTITY SFTY-2A
42001300	PROTECTIVE COAT	SQ YD	185
50102400	CONCRETE REMOVAL	CU YD	63
50300255	CONCRETE SUPERSTRUCTURE	CU YD	72
50300530	FLOOR DRAIN EXTENSION	EACH	62
52000212	FINGER PLATE EXPANSION JOINT, 4"	FOOT	180
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10300
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100325	TRAFFIC CONTROL AND PROTECTION, STANDARD 701423	EACH	2
* 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	16,880
* 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	5870
78300105	PAVEMENT MARKING REMOVAL	FOOT	5810
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2600
50800515	BAR SPLICERS	EACH	120
X0321781	MECHANICAL SPLICE	EACH	196
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	195
20030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
20030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2

* SPECIALTY ITEM

GENERAL NOTES

- Pavement Marking shall be done according to Standard 780001, except as follows: 1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

SUMMARY OF QUANTITIES
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION 1,21B-2-M
HENRY COUNTY
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: July, 2009
Soodan Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / TOTAL SHEETS
IL 84	(1,218-2M)	HENRY and ROCK ISLAND	23	3	15 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E1B		

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.

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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based 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 will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

All new structural steel shall conform to AASHTO M 270 Grade 50 unless otherwise noted.

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

Fasteners shall be high strength, bolts $\frac{3}{4}$ " ϕ ,
open holes $\frac{13}{16}$ " ϕ unless otherwise noted.

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

All structural steel shall be shop painted with the Inorganic zinc rich primer per AASHTO M-300, Type 1. Cost shall be Included In the cost of Finger Plate Expansion Joint, 4".

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

Calculated weight of new structural steel = 20,570 Lbs.

Reinforcement bars designated (E) shall be epoxy coated.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Tapered shims shall be added under the stools, as required by the Engineer, to make a smooth finger joint. Cost shall be included with Finger Plate Expansion Joint.

Existing reinforcement 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 splicer or anchorage system. Cost shall be included with concrete removal.

The Contractor shall provide support for the finger plate while the concrete is green to account for the eccentric loads.

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

GENERAL NOTES
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,218-2-M)
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

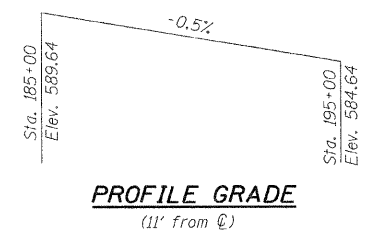
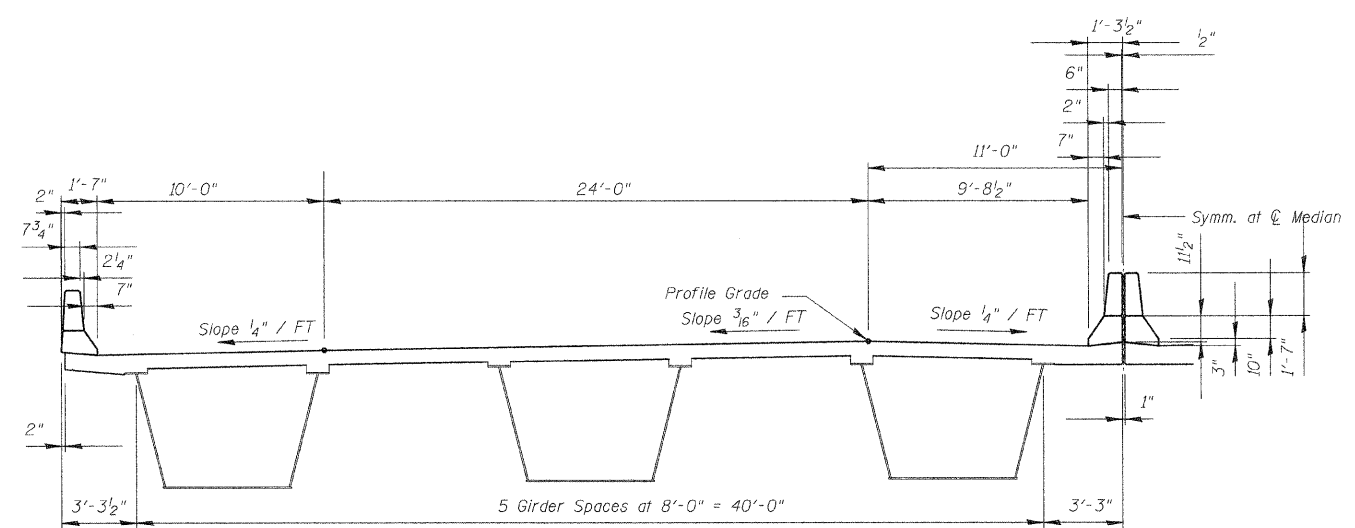
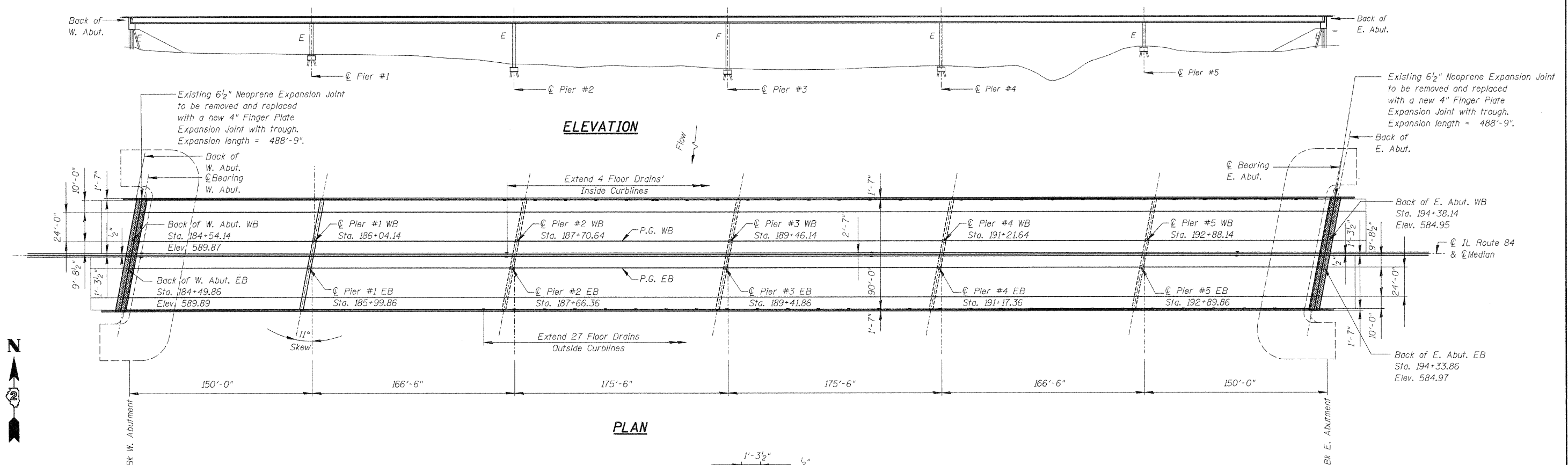
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Soodan Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	1,21B-2M	HENRY and ROCK ISLAND	23	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT 64E18

SHEET NO. 2
15 SHEETS



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	63
Concrete Superstructure	Cu. Yd.	72
Reinforcement Bars, Epoxy Coated	Pound	10,300
Floor Drain Extensions	Each	62
Finger Plate Expansion Joint, 4"	Foot	180
Mechanical Splicers	Each	196
Fabric Reinforced Elastomeric Trough	Foot	195
Bar Splicers	Each	120
Protective Coat	Sq. Yd.	185

EXISTING PLAN & CROSS SECTION

IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,21B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009

Soodan

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100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

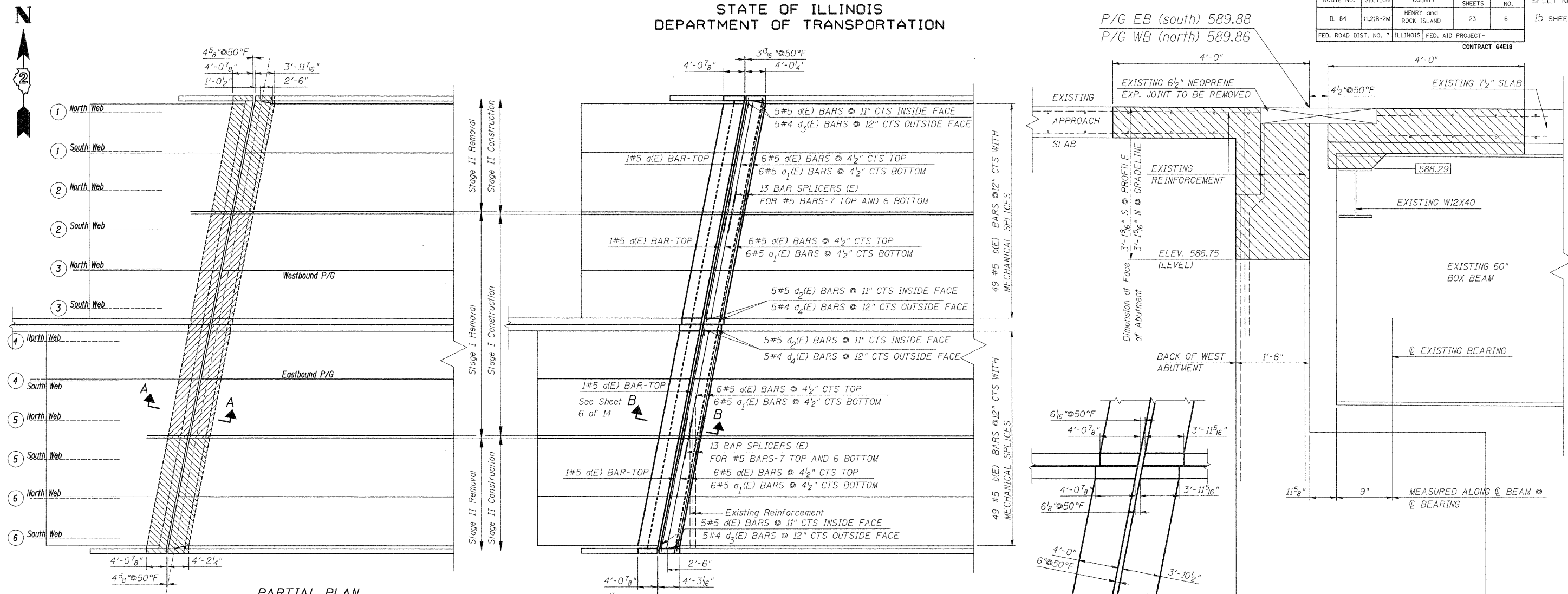
DESIGNED	M.H.
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DRAWN	C.L.
CHECKED	M.H./P.B.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 15 SHEETS
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	6	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

CONTRACT 64E18

P/G EB (south) 589.88
P/G WB (north) 589.86

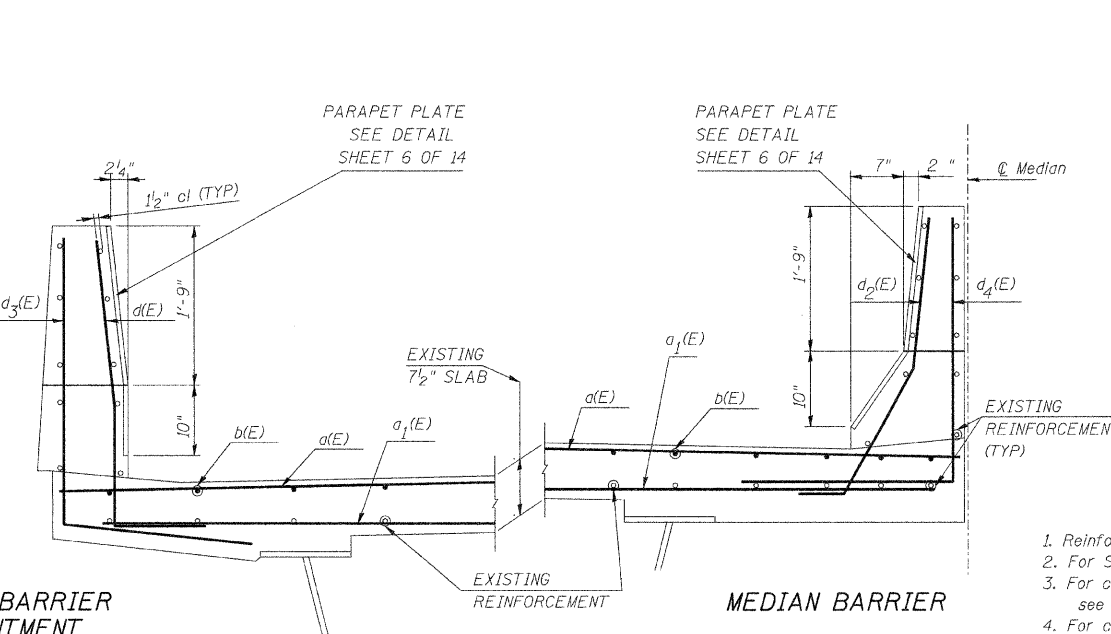
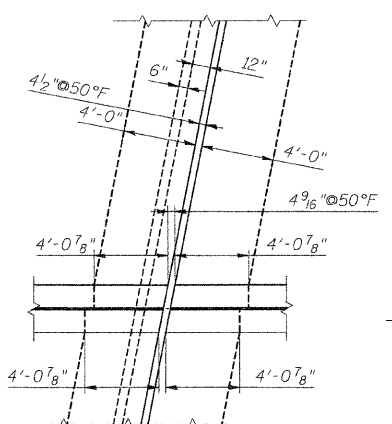


PARTIAL PLAN
SHOWING CONCRETE REMOVAL

PARTIAL PLAN
SHOWING CONCRETE REPLACEMENT

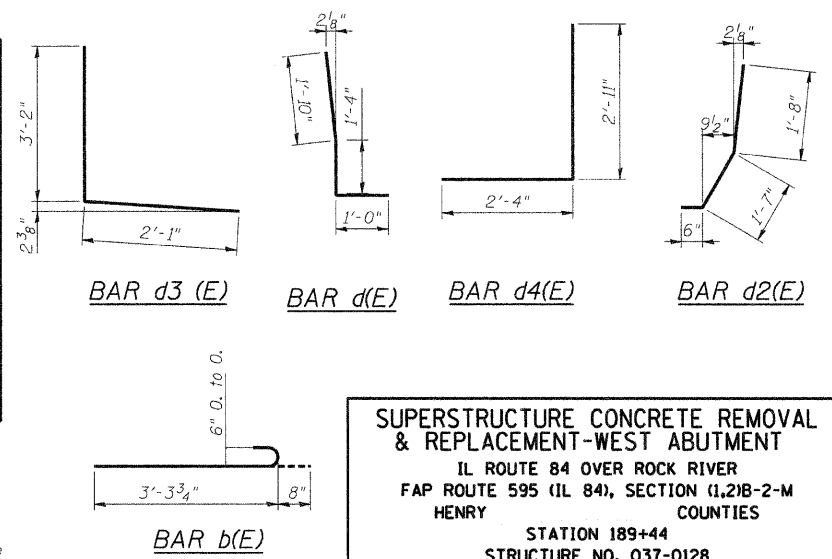
DIMENSIONS AT
PROPOSED JOINT
AT C ROADWAY

SECTION A-A



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	28	#5	26'-1"	
a ₁ (E)	24	#5	25'-1"	
b(E)	98	#5	3'-11 ³ / ₄ "	
d(E)	10	#5	4'-2"	
φ ₂ (E)	10	#5	3'-9"	
φ ₃ (E)	10	#4	5'-3"	
φ ₄ (E)	10	#4	5'-3"	
Concrete Removal		Cu. Yd.	15.3	
Concrete Superstructure		Cu. Yd.	15.3	
Reinforcement Bars Epoxy Coated		Lbs.	1950	



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

1. Reinforcement bars designated (E) shall be epoxy coated.
2. For Section B-B. See Sheet 6 of 15.
3. For concrete removal details at the abutment, see sheet 11 & 12 of 15.
4. For concrete replacement and reinforcement details at the abutment, see sheet 13 & 14 of 15.
5. For bar splicer details, see sheet 15 of 15.
6. Hatched areas indicate concrete removal.

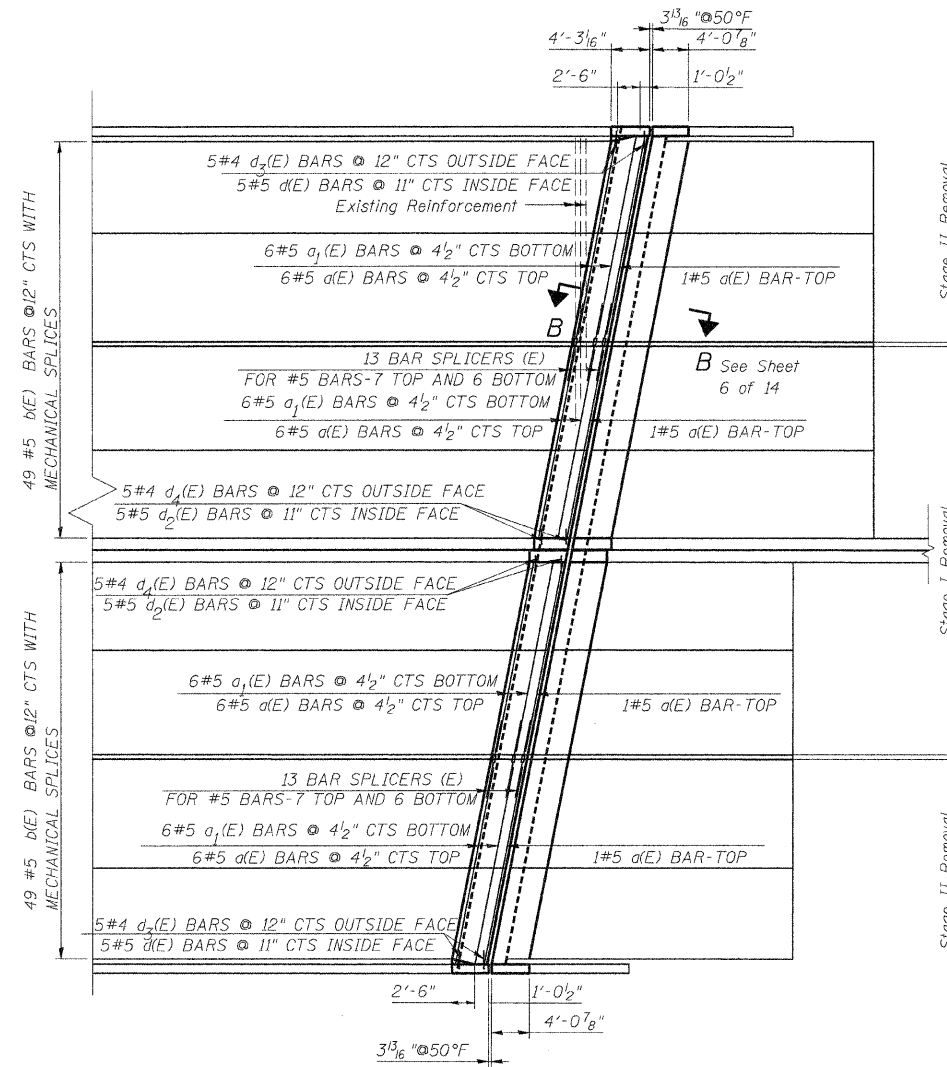
SUPERSTRUCTURE CONCRETE REMOVAL & REPLACEMENT-WEST ABUTMENT
 IL ROUTE 84 OVER ROCK RIVER
 FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
 HENRY COUNTIES
 STATION 189+44
 STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009
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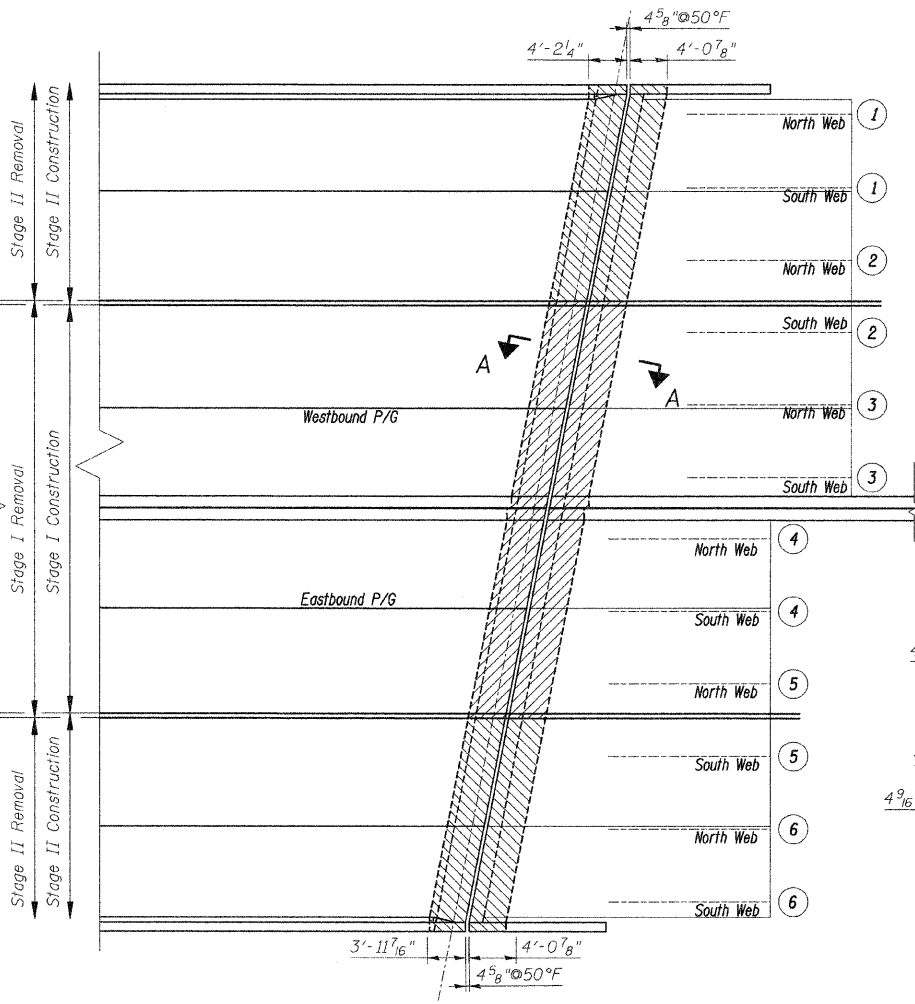
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	7
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				
CONTRACT 64E18				

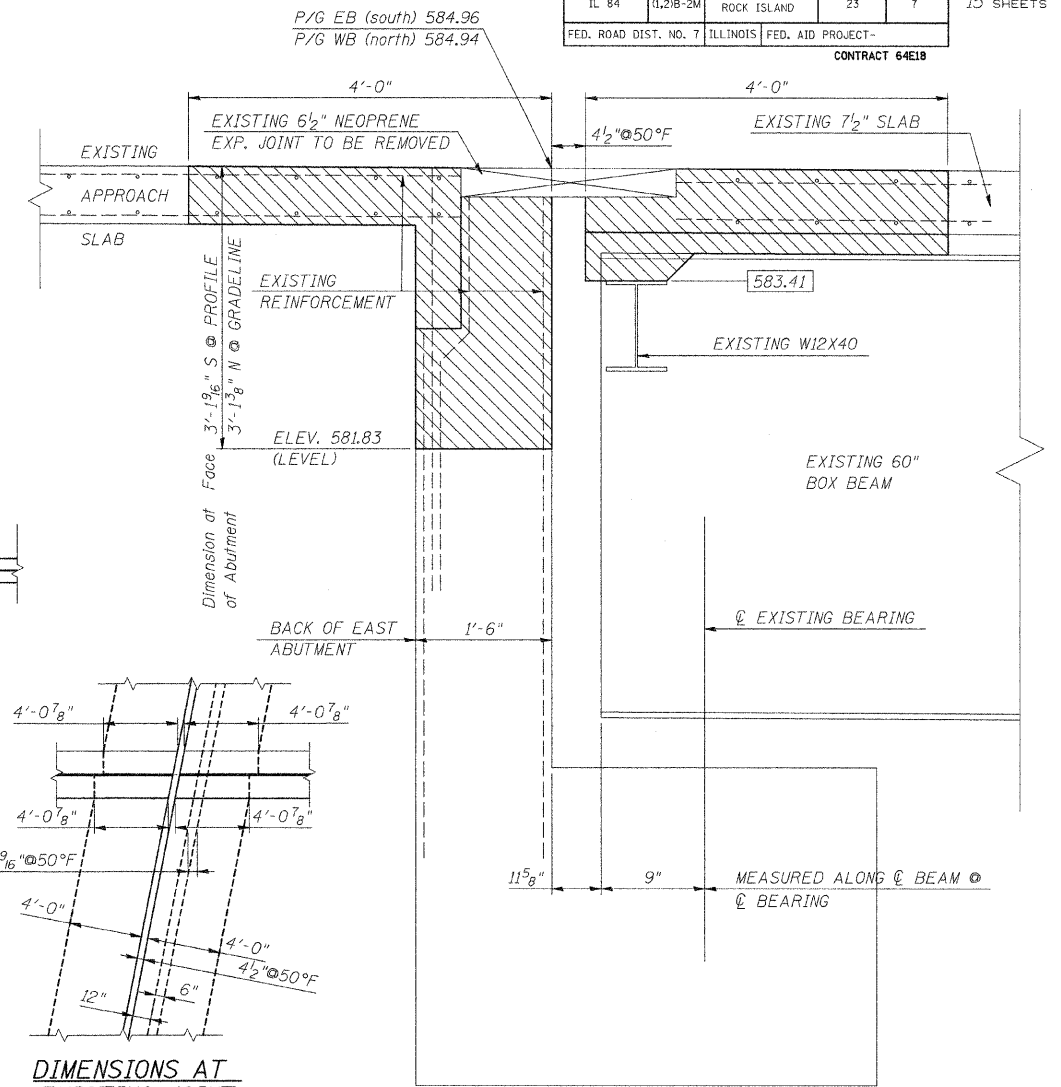
SHEET NO. 5
15 SHEETS



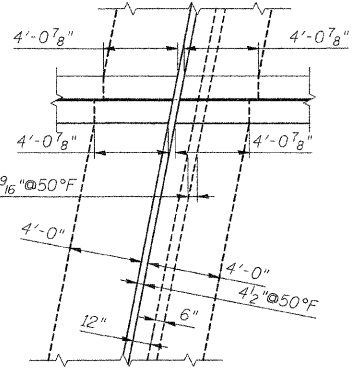
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SHOWING CONCRETE REPLACEMENT



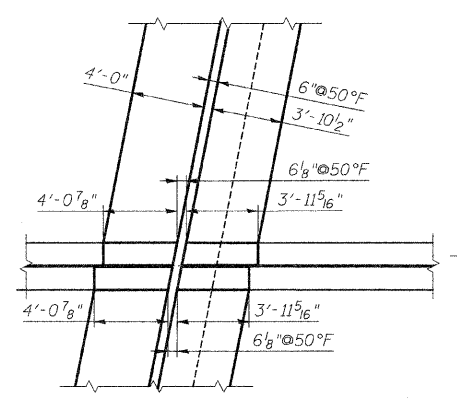
PARTIAL PLAN
SHOWING CONCRETE REMOVAL



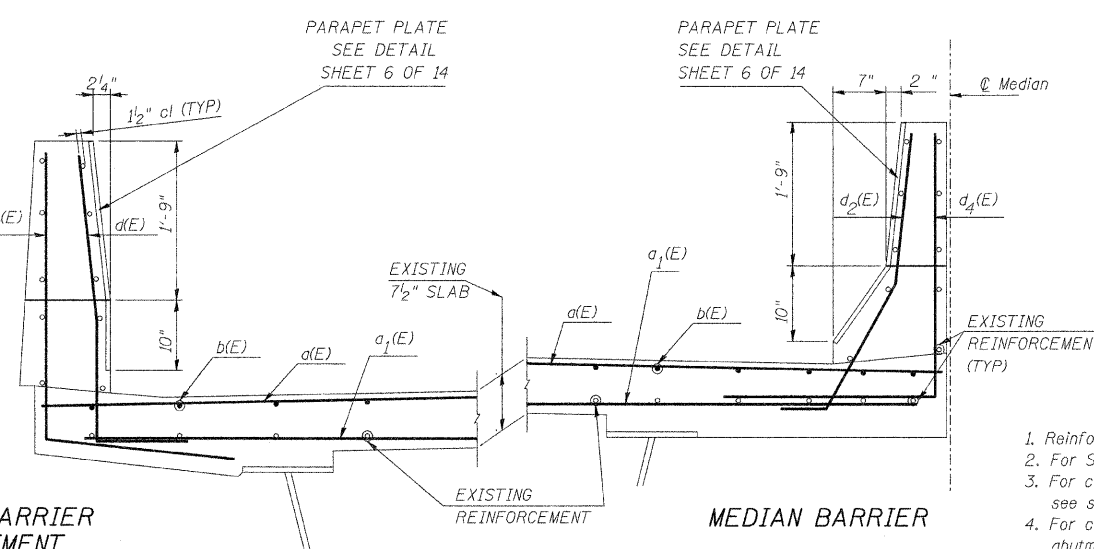
SECTION A-A



DIMENSIONS AT
EXISTING JOINT
AT C/ ROADWAY



DIMENSIONS AT
PROPOSED JOINT
AT C/ ROADWAY

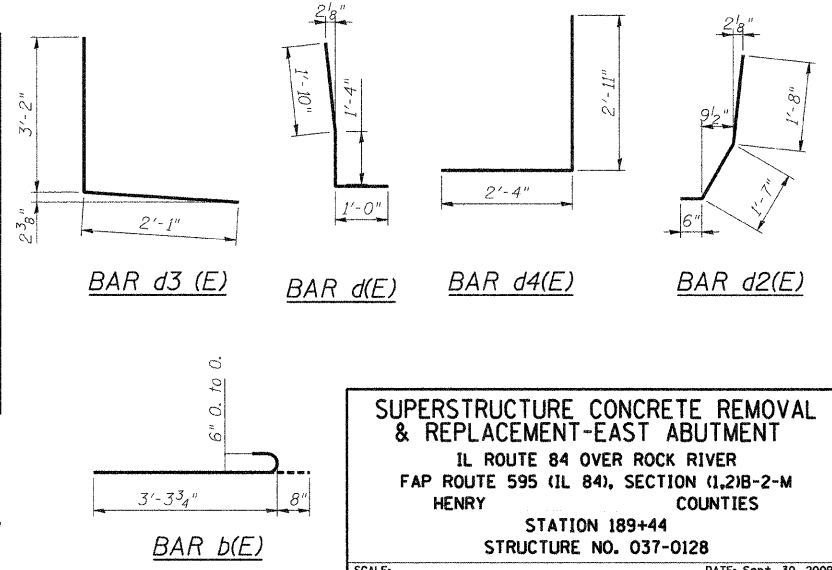


OUTSIDE BARRIER
AT ABUTMENT

MEDIAN BARRIER

BILL OF MATERIAL

Bar No.	Size	Length	Shape
d(E)	#5	26'-1"	
a1(E)	#5	25'-1"	
b(E)	#5	3'-11 3/4"	
d(E)	#5	4'-2"	
cb(E)	#5	3'-9"	
ca(E)	#4	5'-3"	
cd(E)	#4	5'-3"	
Concrete Removal	Cu. Yd.	15.3	
Concrete Superstructure	Cu. Yd.	15.3	
Reinforcement Bars Epoxy Coated	Lbs.	1950	



1. Reinforcement bars designated (E) shall be epoxy coated.
2. For Section B-B, See Sheet 6 of 15.
3. For concrete removal details at the abutment, see sheet 11 & 12 of 15.
4. For concrete replacement and reinforcement details at the abutment, see sheet 13 & 14 of 15.
5. For bar splicer details, see sheet 15 of 15.
6. Hatched areas indicate concrete removal.

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

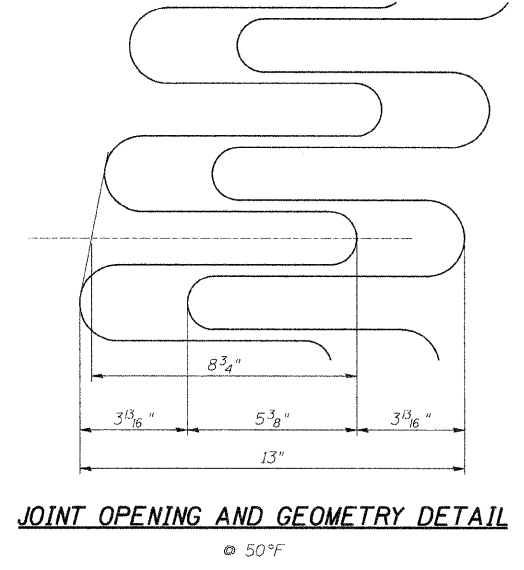
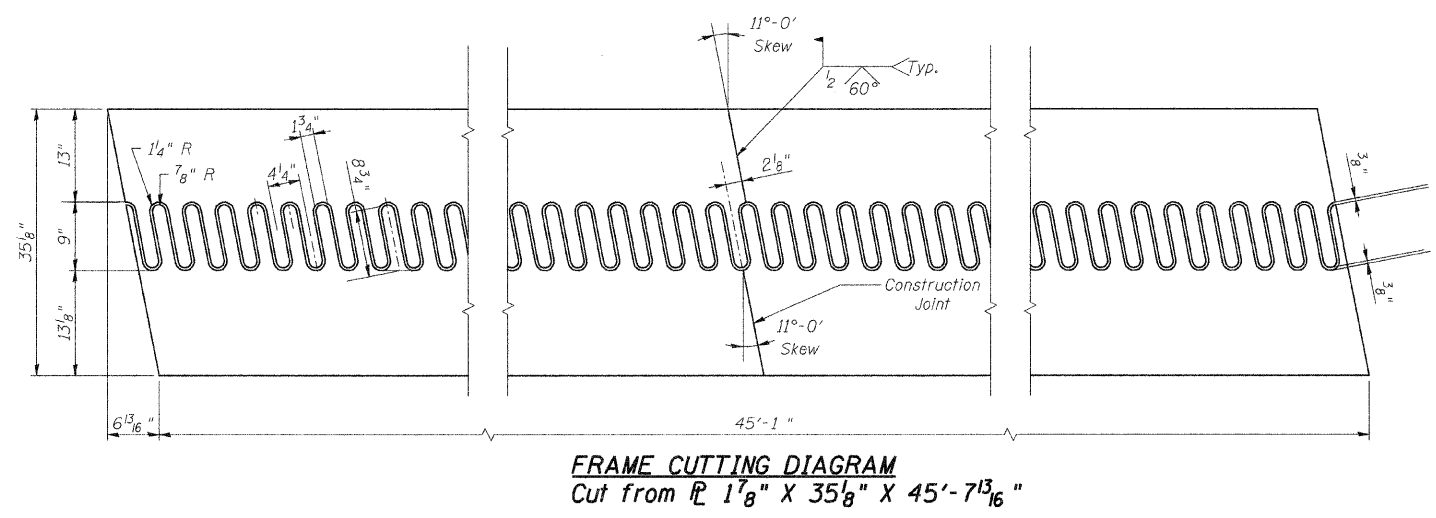
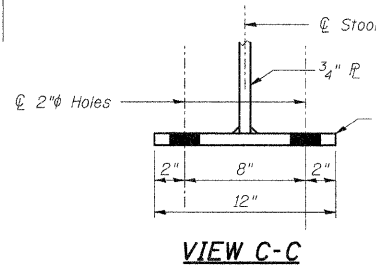
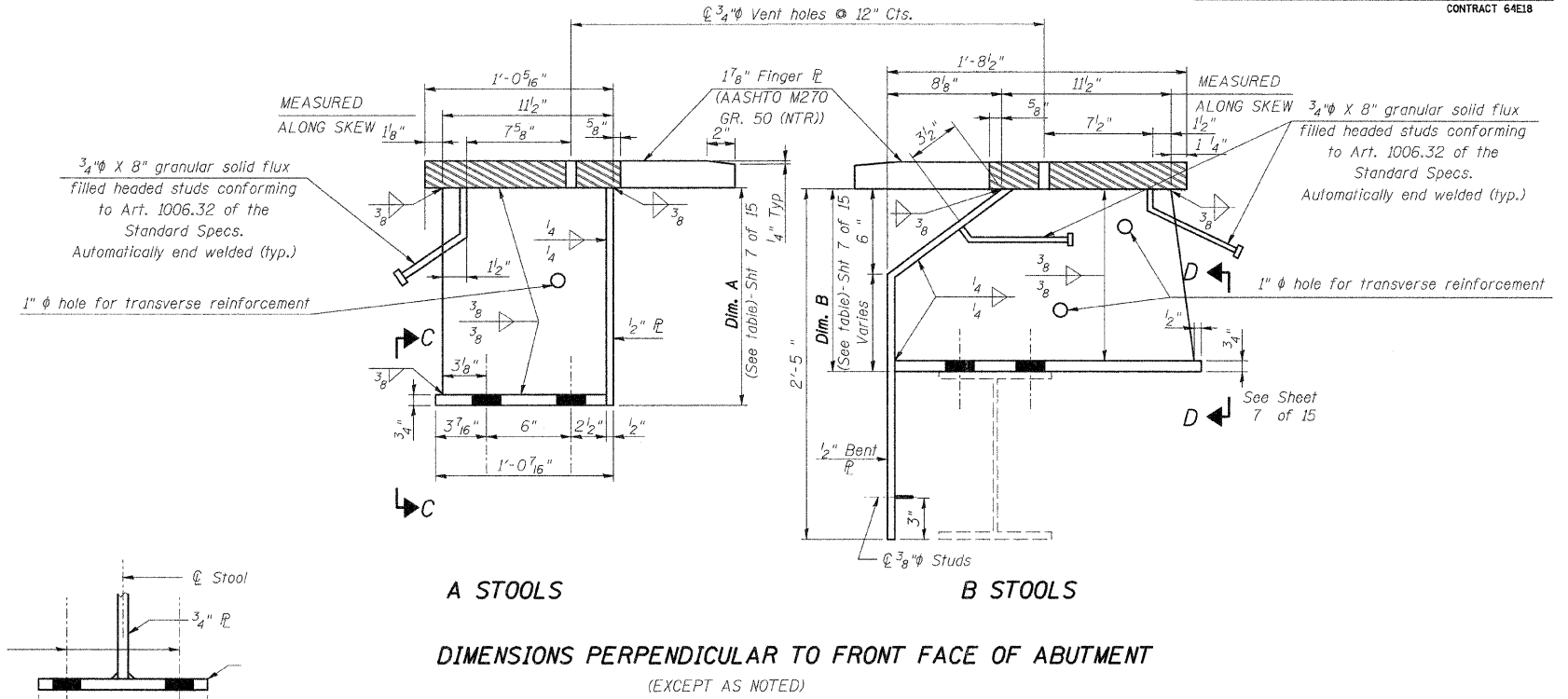
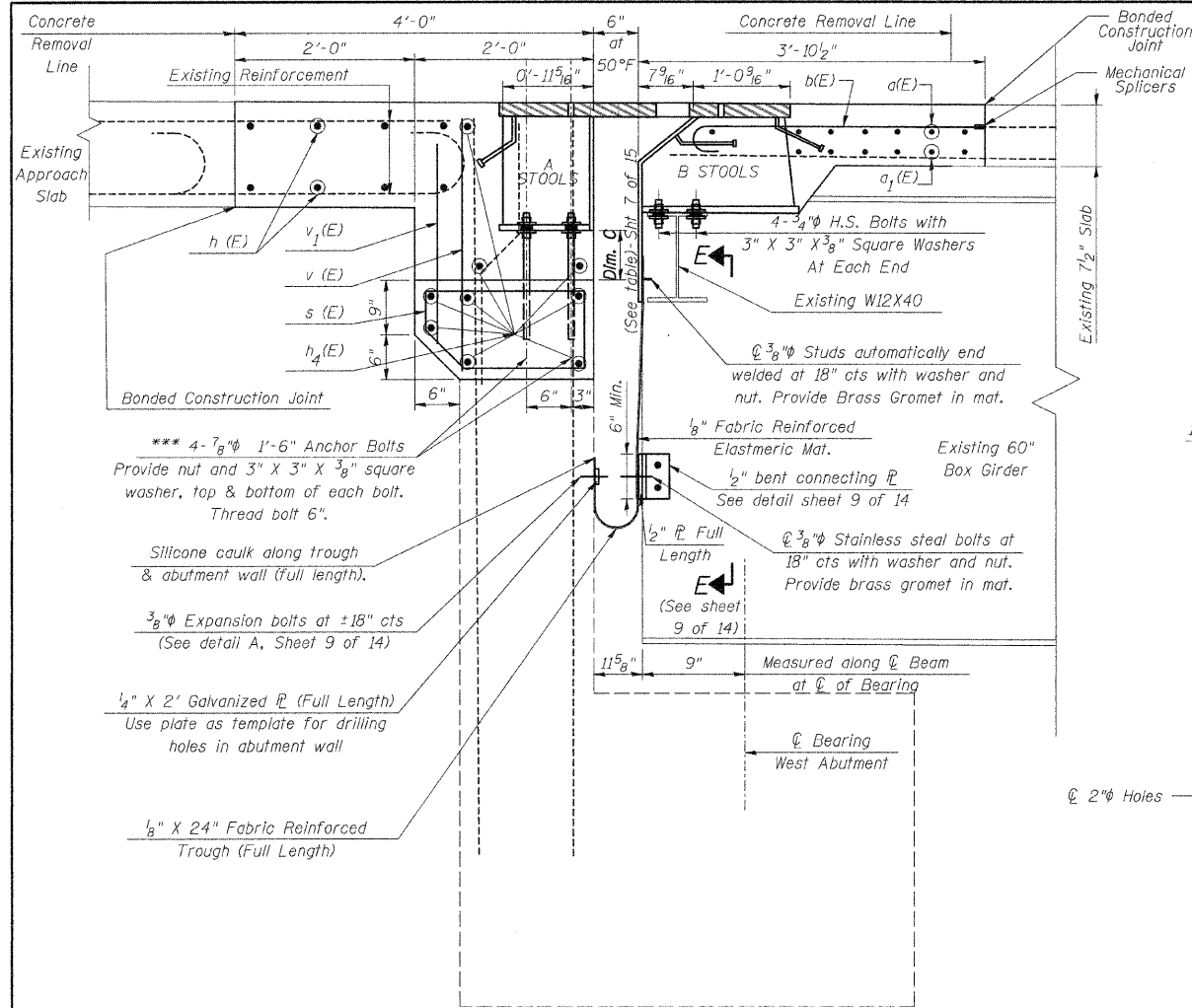
SUPERSTRUCTURE CONCRETE REMOVAL & REPLACEMENT-EAST ABUTMENT
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009
Soodan Soodan & Associates, Inc. 100 North LaSalle Street, Suite 1800 Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	1L21B-2M	HENRY and ROCK ISLAND	23	8
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				
CONTRACT 64E18				

SHEET NO. 6
15 SHEETS



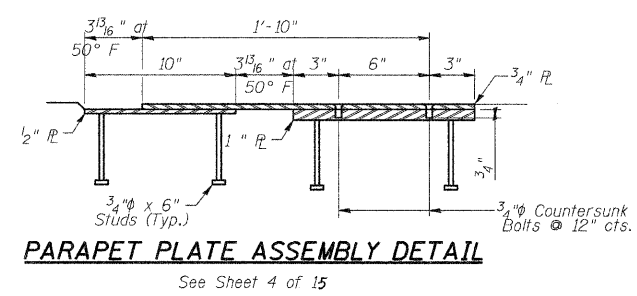
* Provide 1/2" normal shim, two 1/4" shims, one 1/8" shim and one 1/16" shim for height adjustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of Finger Plate Expansion Joint, 4".

*** The contractor may use at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The contractor shall install these anchor rods in pre-drilled holes (9" Min. depth) according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Finger Plate Expansion Joint, 4".



1. For Stool Locations See Sheet 8 & 9 of 15
2. For View E-E See Sheet 10 of 15
3. For Section D-D See Sheet 7 of 15
4. Existing shear studs that interfere with the finger plate stools shall be removed using the air-arc method and grind smooth all weld material remaining on the top flange. Cost included with Finger Plate Expansion Joint, 4".

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

JOINT DETAILS

IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1L21B-2-M)
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

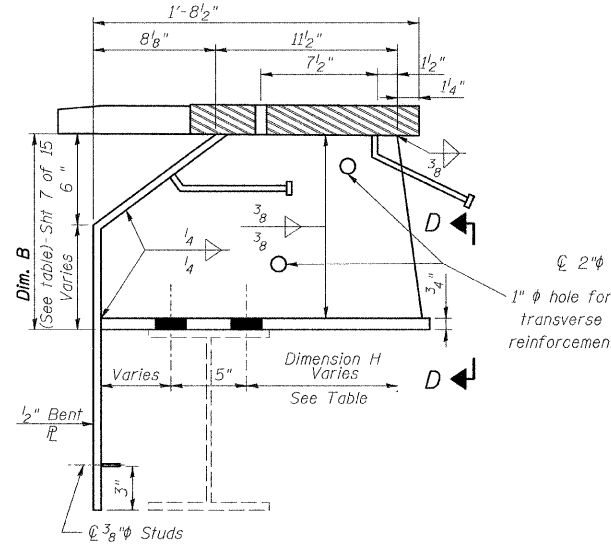
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Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

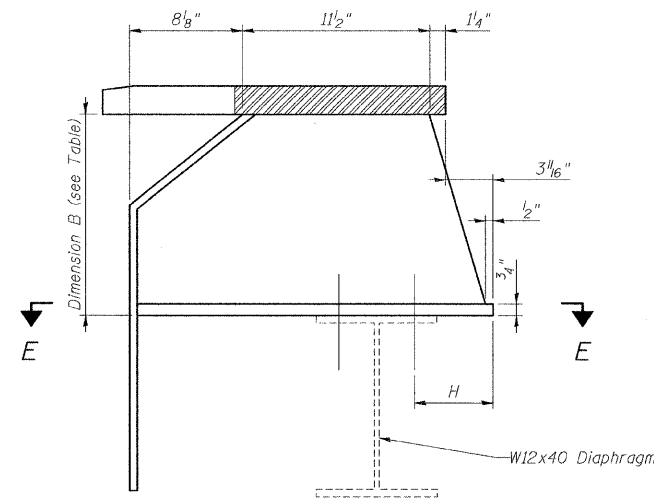
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 15 SHEETS
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	9	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- CONTRACT 64E18					

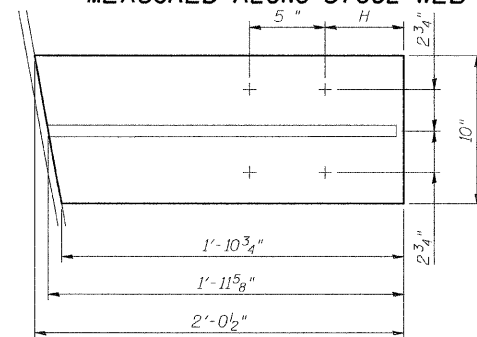
Stool No.	Dim. A West Abut.			Deck El.		Stool No.	Dim. B West Abut.			Dim. H East East	
	West Abut.	West Abut.	West Abut.	East Abut.	East Abut.		West Abut.	West Abut.	West Abut.	East East	East East
A1	8"	21 3/16"	589.34	21 3/8"	584.44	B1	6 1/8"	1 1/2"	6 1/8"	1 1/2"	
A2	8"	21 1/16"	589.38	21 1/8"	584.47	B2	11 7/16"	1 1/2"	11 5/16"	6 3/16"	
A3	10"	20 9/16"	589.42	20 5/8"	584.51	B3	11 7/16"	6 3/16"	11 5/16"	10 13/16"	
A4	10"	20 9/16"	589.45	20 3/4"	584.55	B4	12 3/8"	10 13/16"	12 1/4"	1 1/2"	
A5	10"	21 1/16"	589.49	21 1/4"	584.59	B5	8"	1 1/2"	8 1/16"	1 1/2"	
A6	10"	21 1/2"	589.53	21 1/16"	584.63	B6	13 1/8"	12 5/8"	13 1/16"	1 1/2"	
A7	10"	21 13/16"	589.56	20"	584.65	B7	13 7/16"	8 9/16"	13 5/16"	5 13/16"	
A8	12"	20 3/16"	589.59	20 3/8"	584.68	B8	13 1/16"	5 13/16"	13 5/16"	8 5/16"	
A9	12"	20 1/2"	589.62	20 1/16"	584.71	B9	14"	1 1/2"	13 7/8"	12 5/8"	
A10	12"	20 5/8"	589.64	21 1/16"	584.74	B10	6 1/16"	1 1/2"	6 1/8"	1 1/2"	
A11	12"	21 3/16"	589.67	21 3/8"	584.77	B11	14 5/8"	1 1/2"	14 1/2"	6 3/16"	
A12	12"	21 1/2"	589.70	21 1/16"	584.80	B12	14 15/16"	6 3/16"	14 7/8"	10 13/16"	
A13	12"	21 7/8"	589.73	22 1/16"	584.82	B13	15 5/16"	10 13/16"	15 1/4"	1 1/2"	
A14	14"	20 3/16"	589.76	20 3/8"	584.85	B14	7 1/2"	1 1/2"	7 1/2"	1 1/2"	
A15	14"	20 9/16"	589.78	20 3/4"	584.88	B15	15 15/16"	12 5/8"	15 7/8"	1 1/2"	
A16	14"	20 7/8"	589.81	21 1/16"	584.91	B16	16 1/4"	8 5/16"	16 1/8"	5 13/16"	
A17	14"	21 3/16"	589.84	21 3/8"	584.94	B17	16 1/2"	5 13/16"	16 7/16"	8 5/16"	
A18	14"	21 9/16"	589.87	21 3/4"	584.96	B18	16 13/16"	1 1/2"	16 1/16"	12 5/8"	
A19	14"	21 9/16"	589.87	21 1/16"	584.96	B19	8 1/16"	1 1/2"	8 1/16"	1 1/2"	
A20	14"	20 15/16"	589.82	21 1/8"	584.91	B20	16 11/16"	1 1/2"	16 5/8"	6 3/16"	
A21	14"	20 7/16"	589.78	20 5/8"	584.87	B21	16 3/16"	6 3/16"	16 1/8"	10 13/16"	
A22	14"	19 5/16"	589.73	20 1/8"	584.83	B22	15 5/8"	10 13/16"	15 9/16"	1 1/2"	
A23	12"	21 7/16"	589.69	21 5/8"	584.79	B23	6 1/16"	1 1/2"	6 1/8"	1 1/2"	
A24	12"	21 3/8"	589.69	21 9/16"	584.78	B24	6 1/8"	1 1/2"	6 3/16"	1 1/2"	
A25	14"	19 7/8"	589.73	20 1/16"	584.82	B25	15 1/2"	1 1/2"	15 7/16"	6 3/16"	
A26	14"	20 5/16"	589.77	20 1/2"	584.86	B26	16"	6 3/16"	15 5/16"	10 13/16"	
A27	14"	20 3/4"	589.80	20 5/16"	584.90	B27	16 1/2"	10 13/16"	16 3/8"	1 1/2"	
A28	14"	21 1/4"	589.85	21 7/16"	584.94	B28	7 15/16"	1 1/2"	7 15/16"	1 1/2"	
A29	14"	21 5/16"	589.85	21 1/2"	584.94	B29	16 1/2"	12 5/8"	16 7/16"	1 1/2"	
A30	14"	20 15/16"	589.82	21 1/8"	584.91	B30	16 3/16"	8 5/16"	16 1/8"	5 13/16"	
A31	14"	20 1/2"	589.78	20 1/16"	584.88	B31	15 7/8"	5 13/16"	15 13/16"	8 5/16"	
A32	14"	20 1/8"	589.75	20 5/16"	584.85	B32	15 9/16"	1 1/2"	15 7/16"	12 5/8"	
A33	12"	21 3/4"	589.72	21 5/16"	584.82	B33	7 3/4"	1 1/2"	7 15/16"	1 1/2"	
A34	12"	21 3/8"	589.69	21 9/16"	584.78	B34	14 13/16"	1 1/2"	14 3/4"	6 3/16"	
A35	12"	21"	589.66	21 3/16"	584.75	B35	14 7/16"	6 3/16"	14 3/8"	10 13/16"	
A36	12"	20 5/8"	589.62	20 13/16"	584.72	B36	14 7/16"	10 13/16"	14 3/8"	1 1/2"	
A37	12"	20 1/4"	589.59	22"	584.69	B37	6 3/16"	1 1/2"	6 3/16"	1 1/2"	
A38	10"	21 1/8"	589.56	20"	584.66	B38	13 5/16"	12 5/8"	13 1/4"	1 1/2"	
A39	10"	21 7/16"	589.53	21 5/8"	584.62	B39	13"	8 5/16"	12 15/16"	5 13/16"	
A40	10"	21 1/16"	589.50	21 1/4"	584.59	B40	12 11/16"	5 13/16"	12 5/8"	8 5/16"	
A41	10"	20 1/16"	589.46	20 7/8"	584.56	B41	12 3/8"	1 1/2"	12 5/16"	12 5/8"	
A42	10"	20 3/16"	589.42	20 3/8"	584.52	B42	8 5/16"	1 1/2"	8 3/16"	1 1/2"	
A43	8"	21 1/16"	589.38	21 7/8"	584.48	B43	11 1/2"	1 1/2"	11 1/16"	6 3/16"	
A44	8"	21 3/16"	589.34	21 3/8"	584.43	B44	11"	6 3/16"	10 7/8"	10 13/16"	
A45	8"	20 1/16"	589.30	20 7/8"	584.39	B45	10 7/16"	10 13/16"	10 3/8"	1 1/2"	
A46	8"	20 3/16"	589.26	20 3/8"	584.35	B46	6 3/16"	1 1/2"	6 1/8"	1 1/2"	



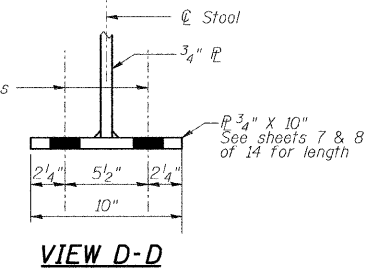
B STOOLS
MEASURED ALONG SKEW



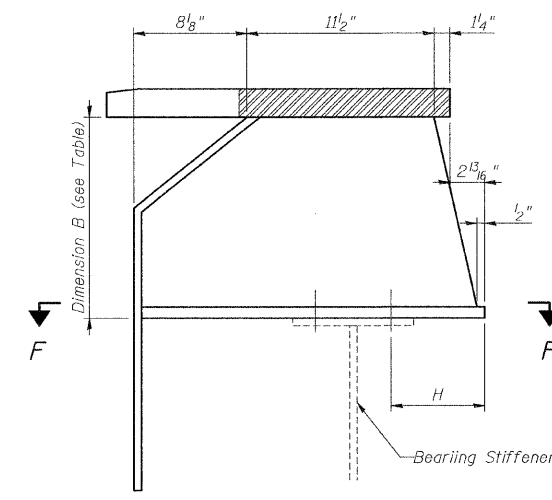
B STOOLS-AT DIAPHRAGMS
MEASURED ALONG STOOL WEB



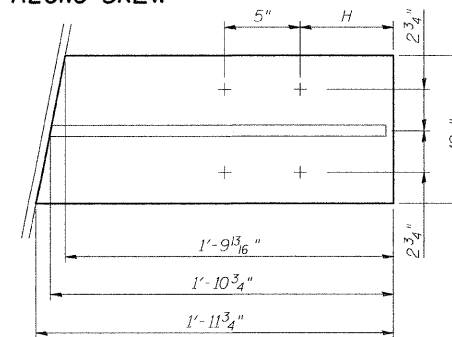
VIEW E-E



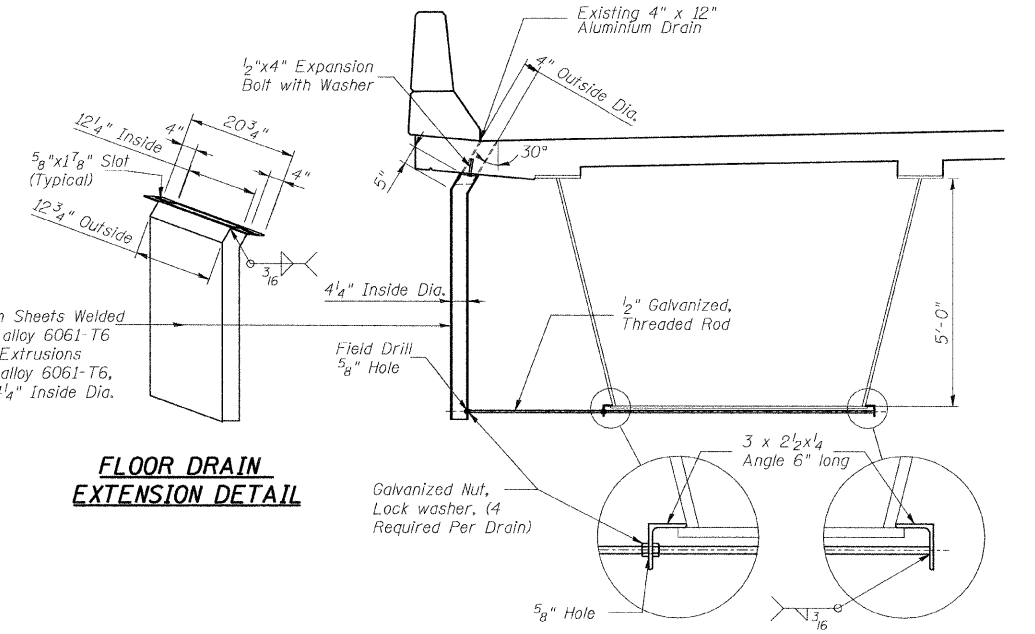
VIEW D-D



B STOOLS-BETWEEN BOX GIRDER WEBS
MEASURED ALONG SKEW

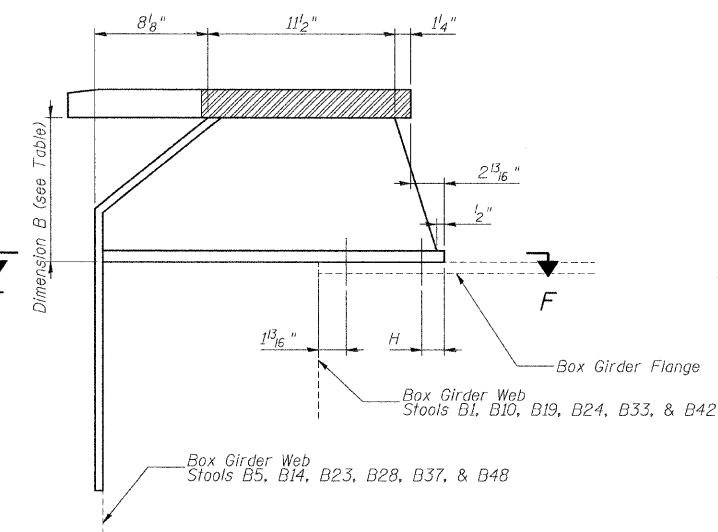


VIEW F-F



FLOOR DRAIN
EXTENSION DETAIL

SECTION AT DRAIN



B STOOLS-AT BOX GIRDER WEB
MEASURED ALONG SKEW

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

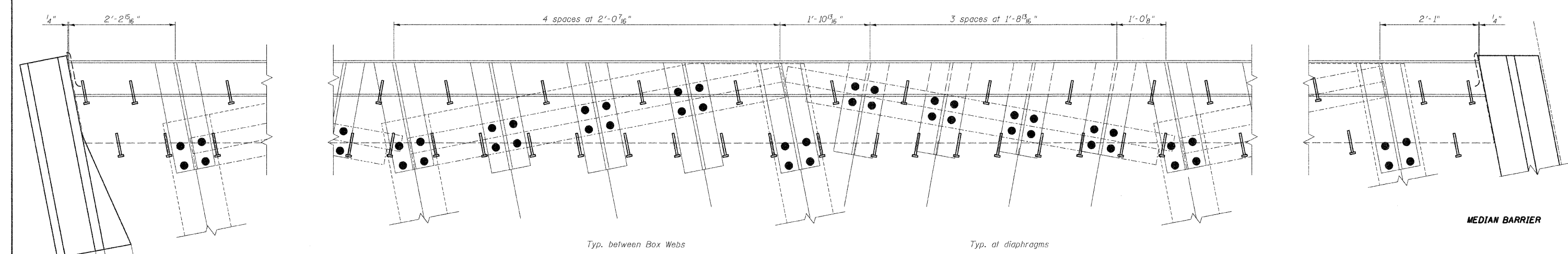
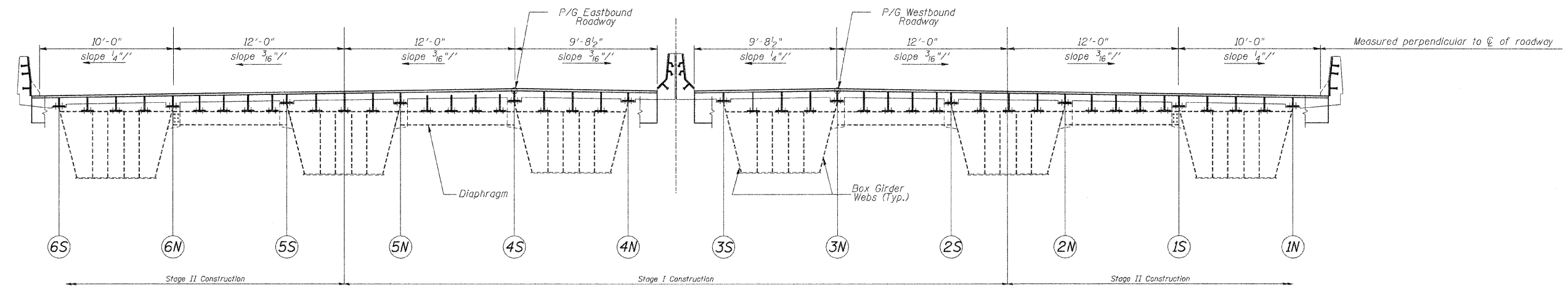
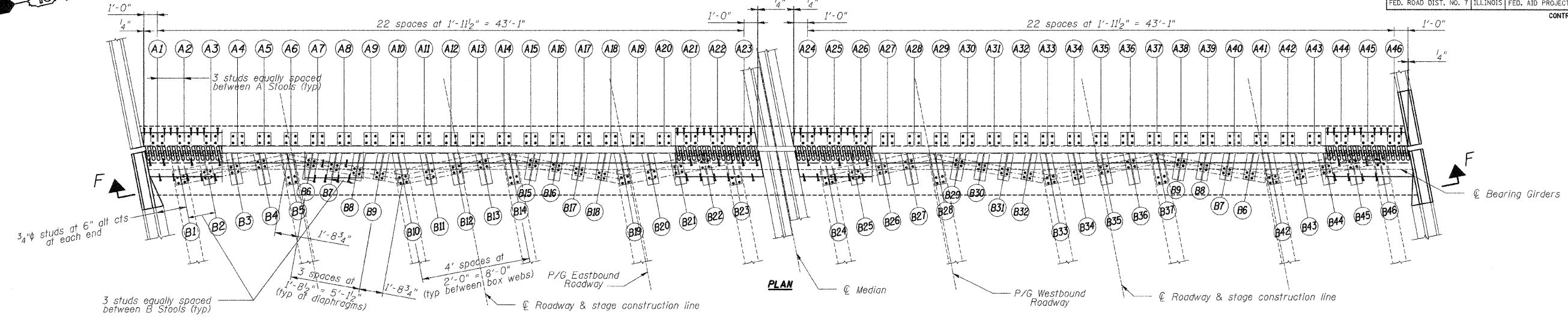
JOINT DETAILS
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

Soodan

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 15 SHEETS
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	10	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18		



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

PLAN
Showing Stool B Layout
Span Side

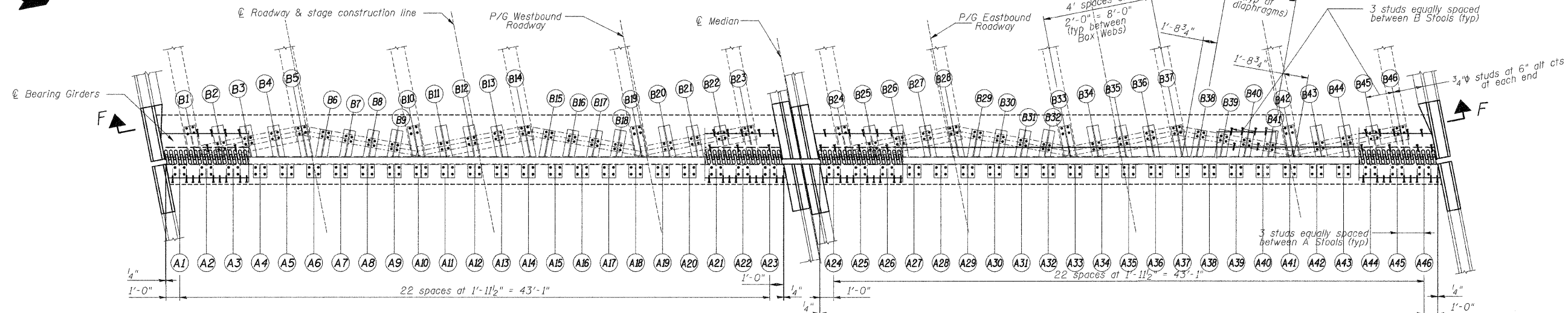
**JOINT PLAN & ELEVATION
WEST ABUTMENT**
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

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Chicago, Illinois 60602

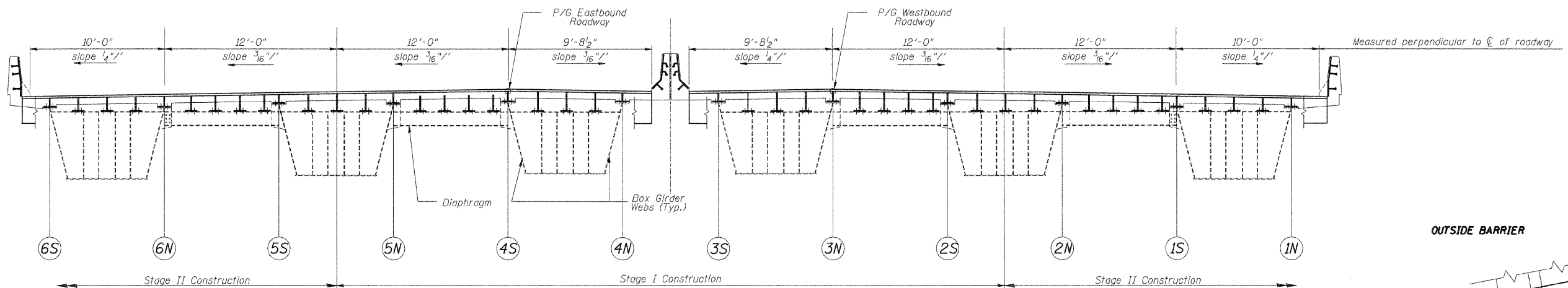
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	11,21B-2M	HENRY and ROCK ISLAND	23	11
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-	CONTRACT 64E18	

SHEET NO. 9
15 SHEETS

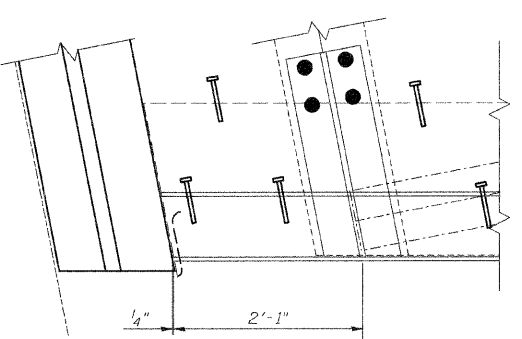


PLAN

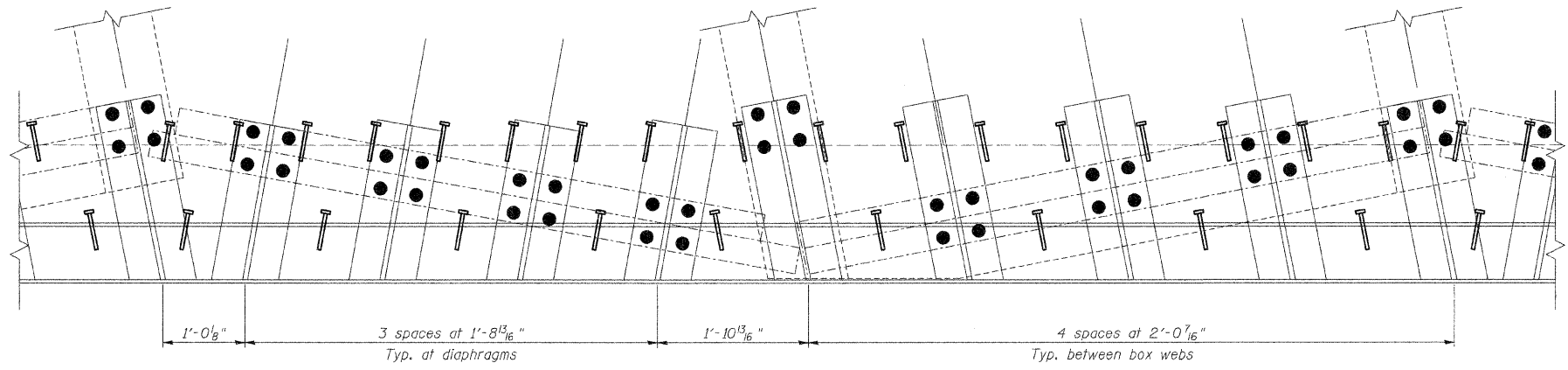
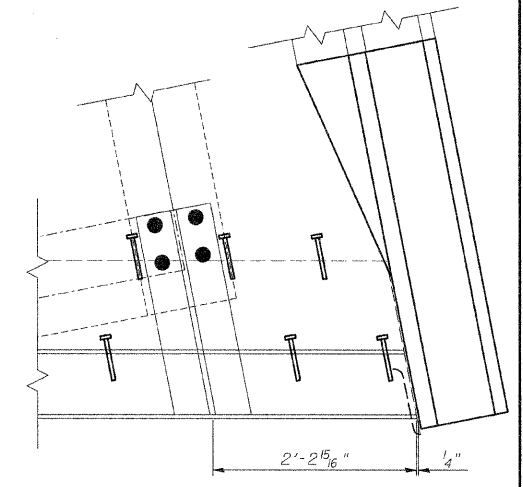


SECTION F-F

MEDIAN BARRIER



OUTSIDE BARRIER



PLAN
Showing Stool B Layout
Span Side

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

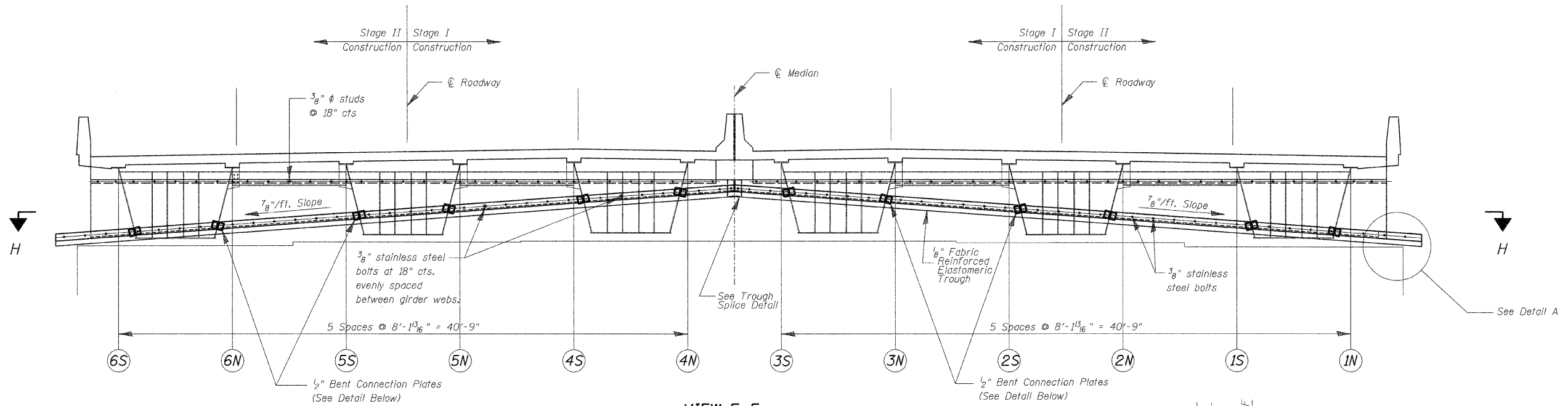
JOINT PLAN & ELEVATION
EAST ABUTMENT
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION 11,21B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

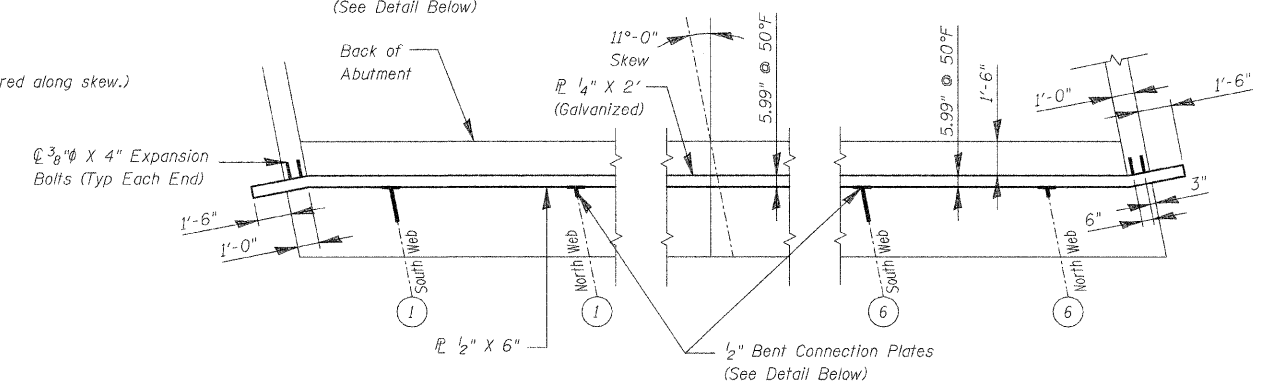
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	73	12
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18	

SHEET NO. 10
15 SHEETS

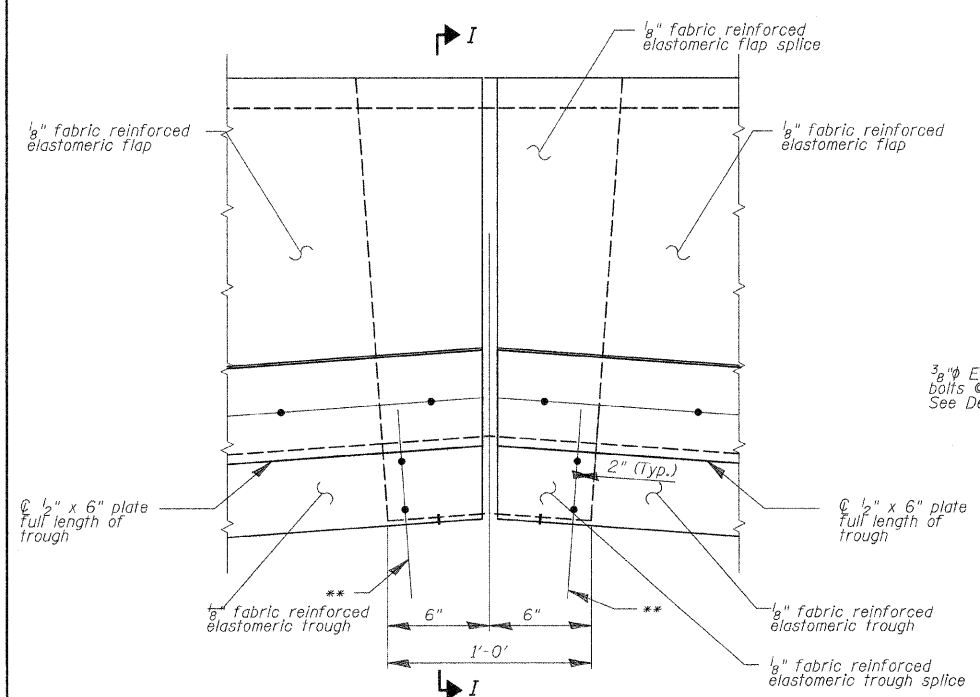


VIEW E-E

(Horizontal dimensions are measured along skew.)



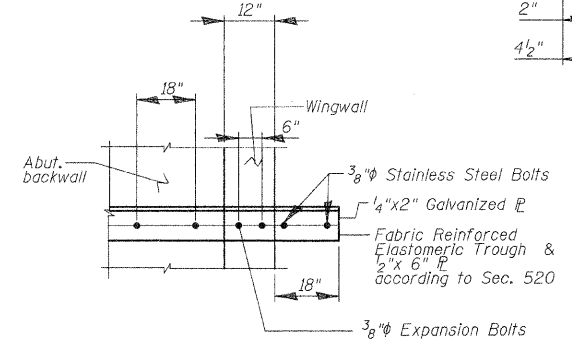
VIEW H-H



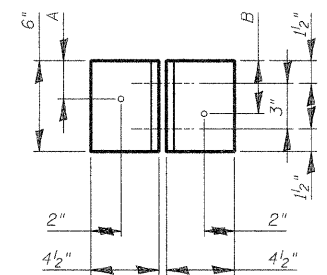
TROUGH SPLICE DETAIL

**3/8" ϕ Stainless Steel bolts w/ washers & nuts. Provide brass grommet in trough.

SECTION I-I



DETAIL A



VIEW J-J

BENT CONNECTION PLATES

	A	B	C	D
6S, 5S, 4S	2 1/2"	3 1/2"	1'-6 9/16"	1'-6 1/16"
6N, 5N, 4N	3 5/16"	2 1/16"	4 1/16"	4 5/8"
3S, 2S, 1S	2 1/16"	3 5/16"	1'-6 9/16"	1'-6 7/16"
3N, 2N, 1N	3 1/2"	2 1/2"	4 1/16"	4 5/8"

TROUGH DETAIL

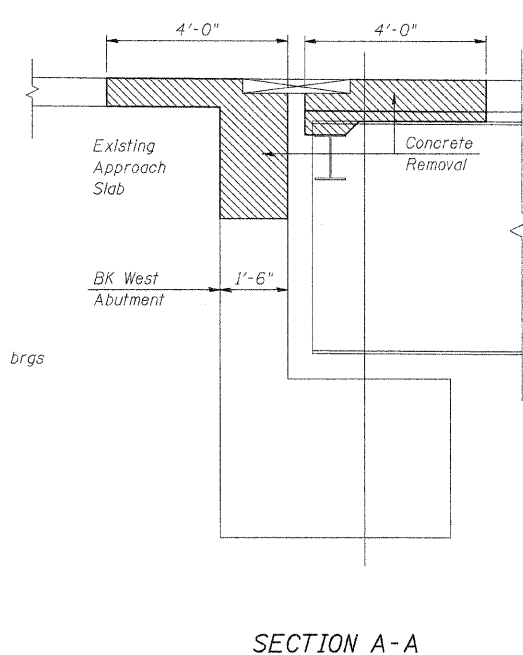
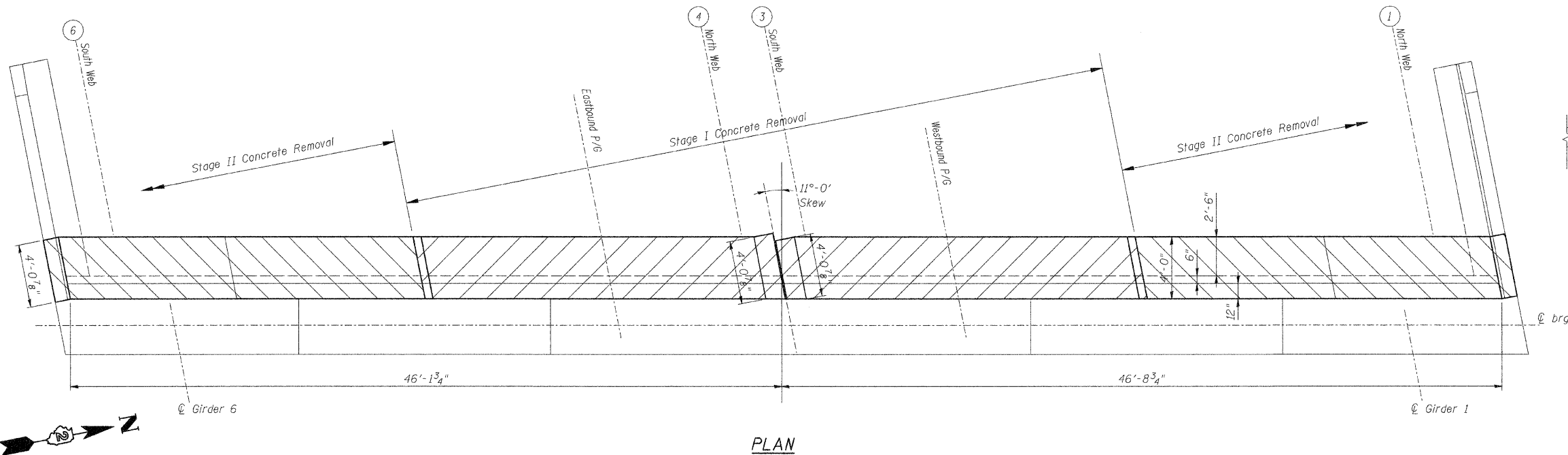
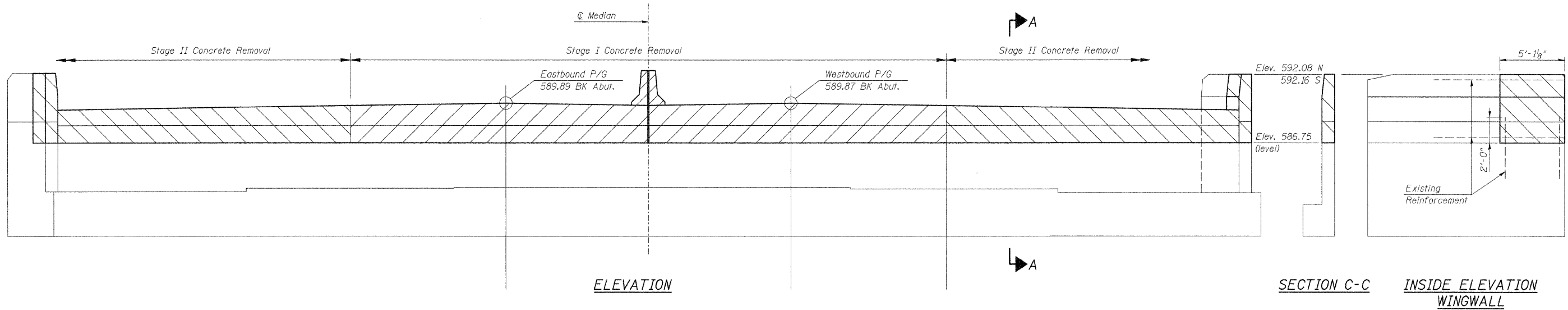
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-012B

SCALE: DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 15 SHEETS
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	13	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18		



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

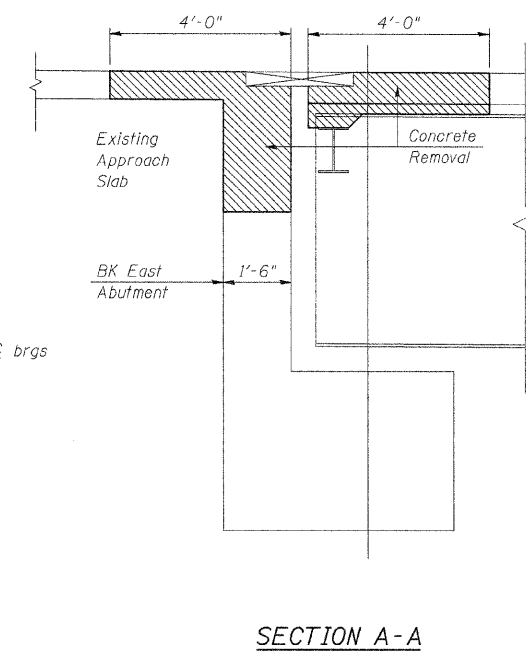
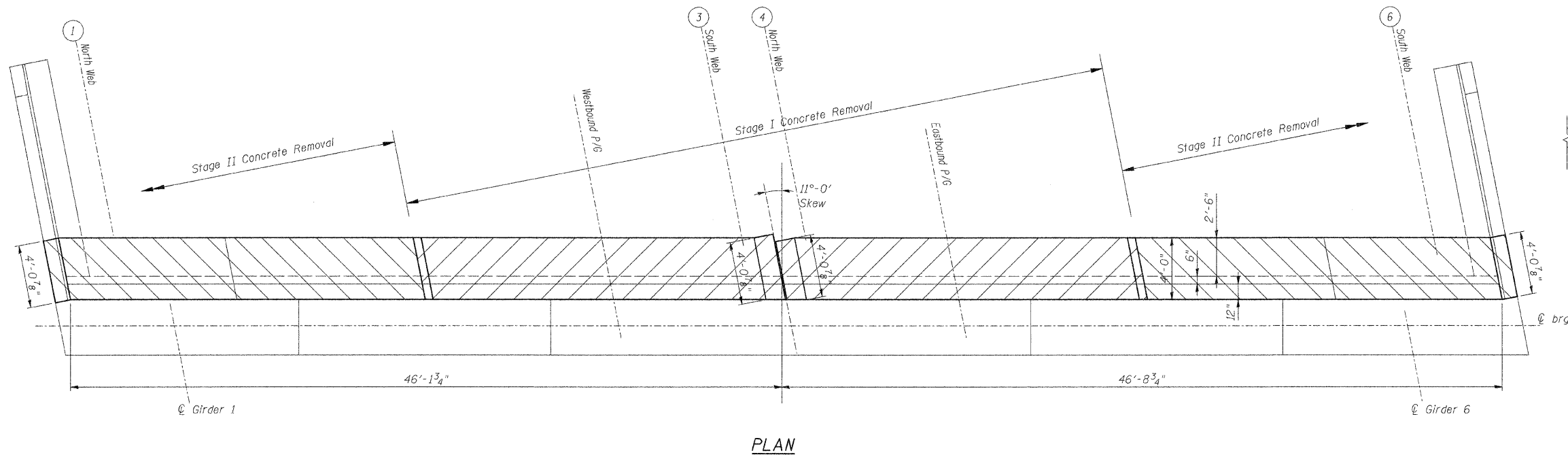
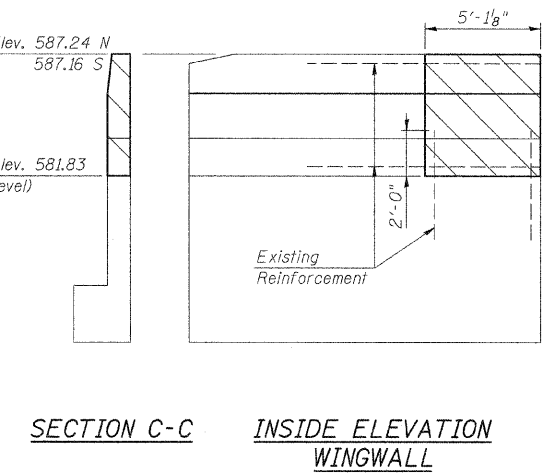
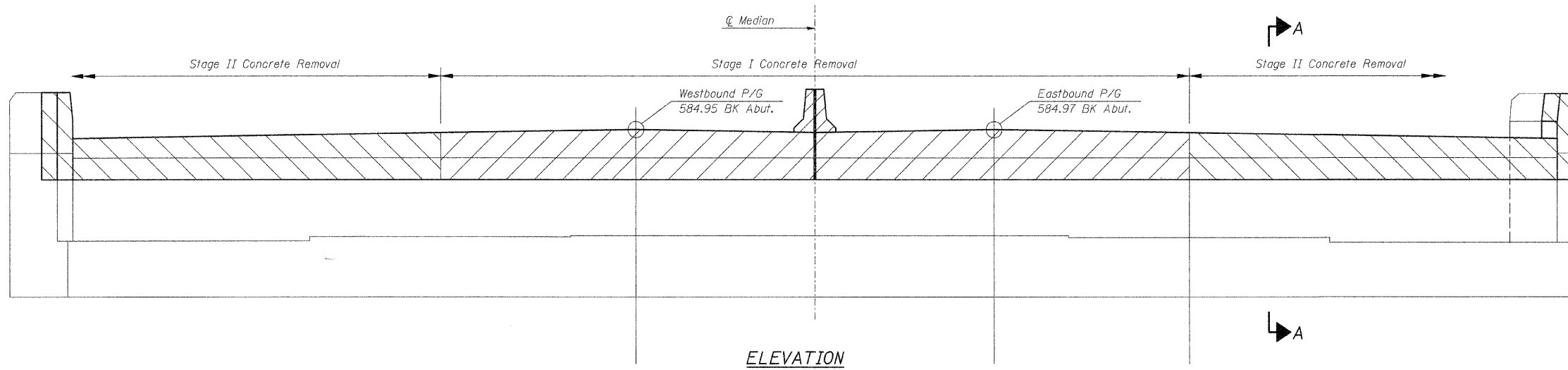
**CONCRETE REMOVAL
WEST ABUTMENT**
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009

Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 15 SHEETS
IL 84	1L21B-2M	HENRY and ROCK ISLAND	23	14	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18		



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

**CONCRETE REMOVAL
EAST ABUTMENT**
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION 1,21B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

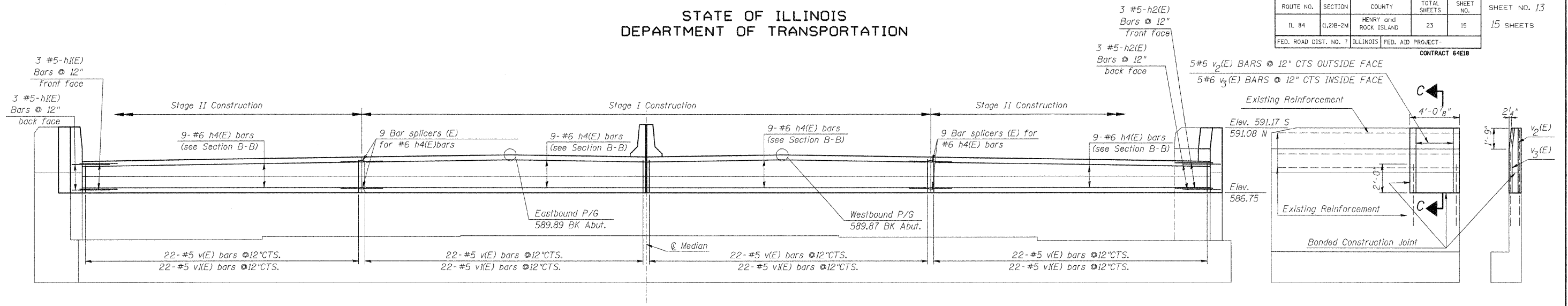
SCALE: DATE: Sept. 30, 2009
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	15
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				

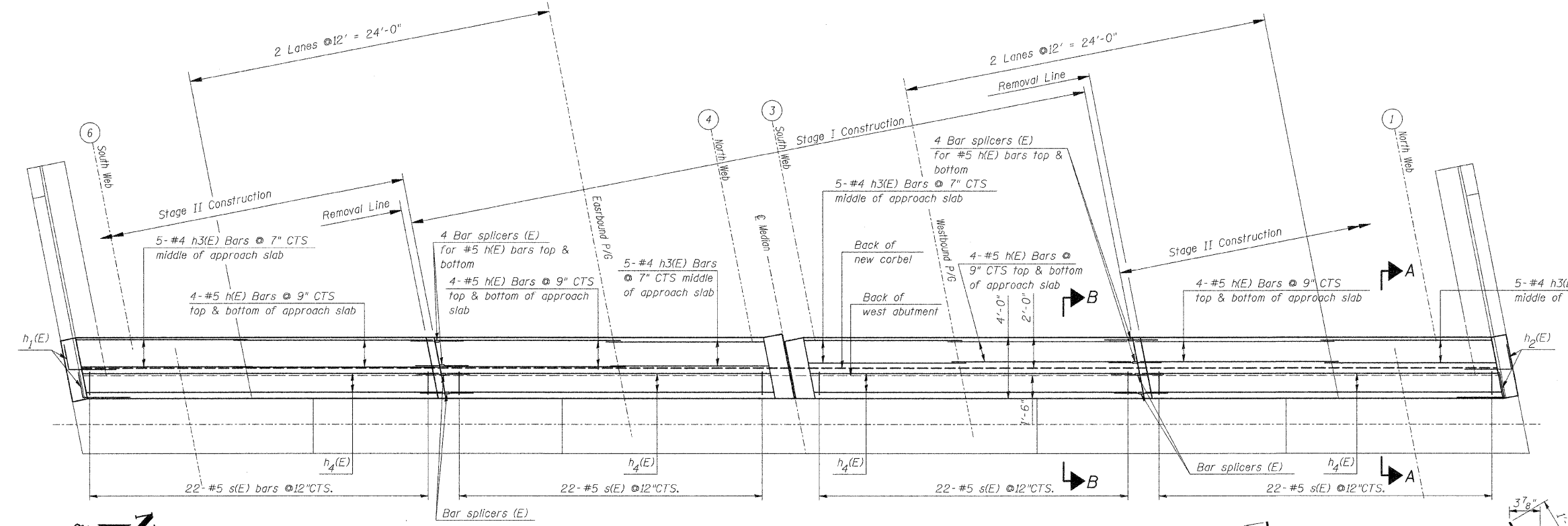
CONTRACT 64E18

SHEET NO. 13
15 SHEETS

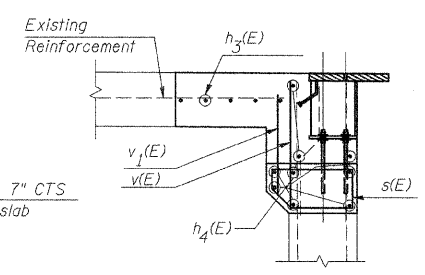


ELEVATION

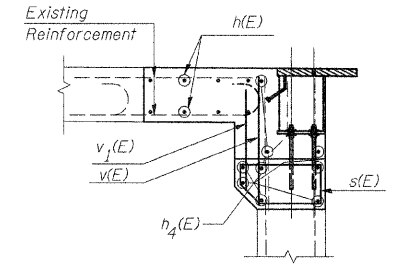
INSIDE ELEVATION WINGWALL SECTION C-C



PLAN



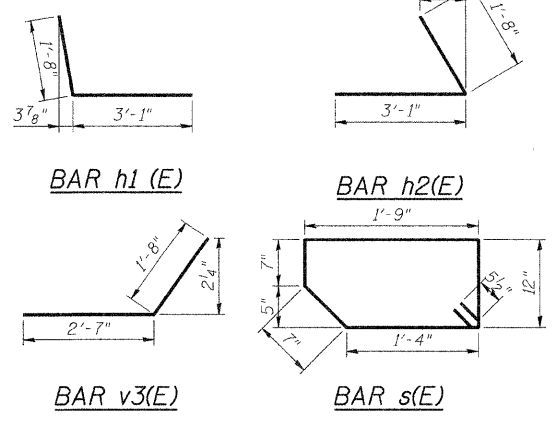
SECTION A-A



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	Location	
h(E)	32	#5	13'-0"	—	Approach Slab	
h1(E)	6	#5	4'-9"	└	Wingwall- Abutment	
h2(E)	6	#5	4'-9"	└	Wingwall- Abutment	
h3(E)	20	#5	13'-0"	—	Approach Slab	
h4(E)	36	#6	23'-3"	—	Abutment	
v(E)	88	#5	2'-10"	—	Abutment	
v1(E)	88	#5	2'-5"	—	Abutment	
v2(E)	10	#6	4'-3"	—	Wingwall	
v3(E)	10	#6	4'-3"	—	Wingwall	
s(E)	88	#5	6'-2"	—	Abutment	
Reinforcement Bars, Epoxy Coated					POUNDS	3,200
Concrete Removal					Cu. Yd.	16.2
Concrete Superstructure					Cu. Yd.	20.7



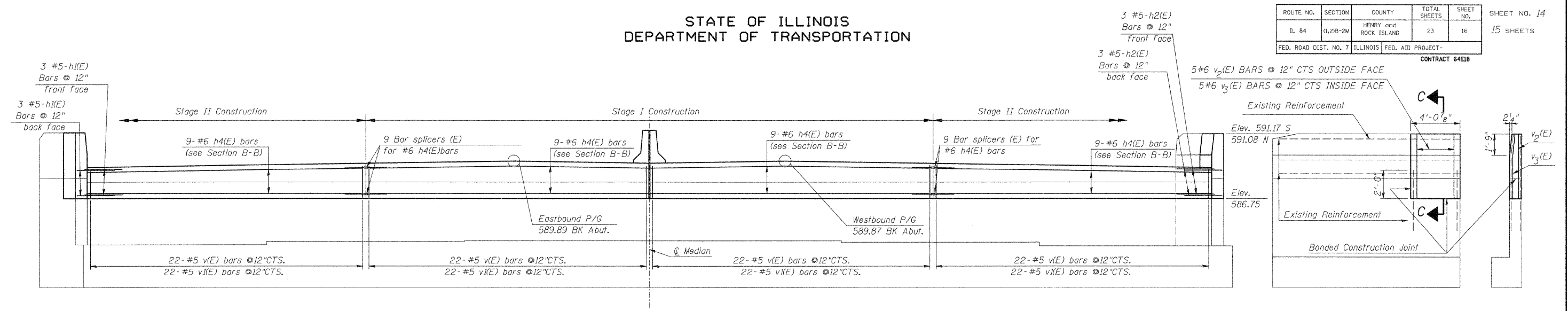
DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

CONCRETE PLACEMENT WEST ABUTMENT
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

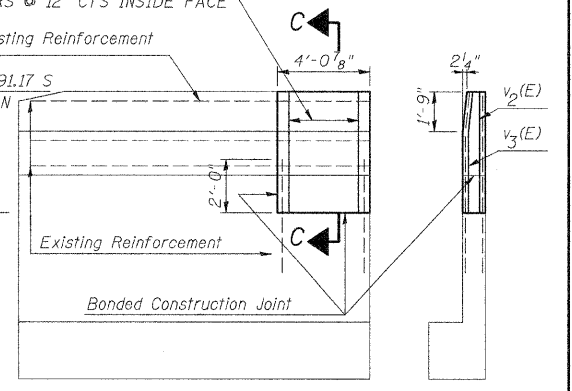
SCALE: DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

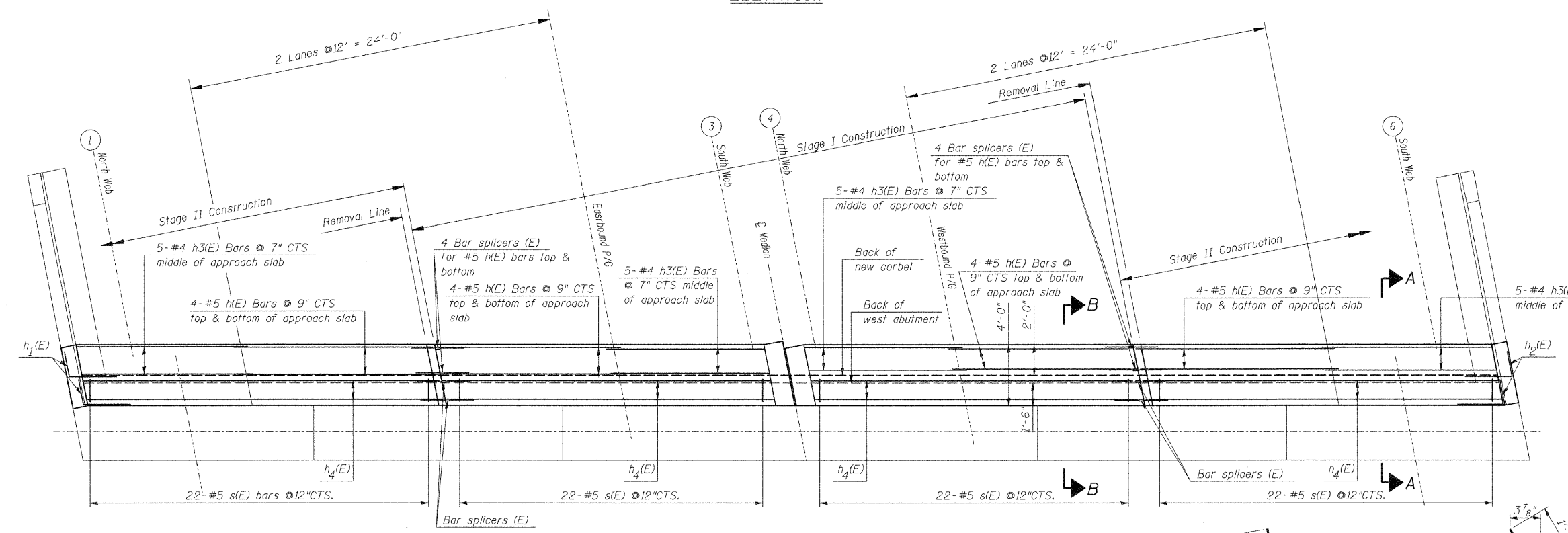
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14 15 SHEETS
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	16	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- CONTRACT 64E1B					



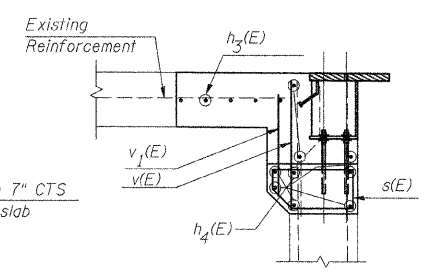
ELEVATION



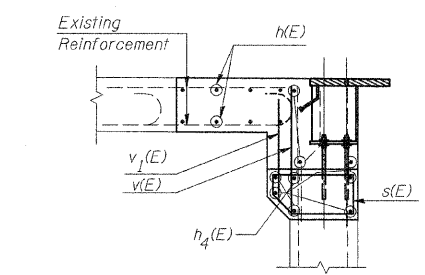
INSIDE ELEVATION
SECTION C-C
WINGWALL



PLAN



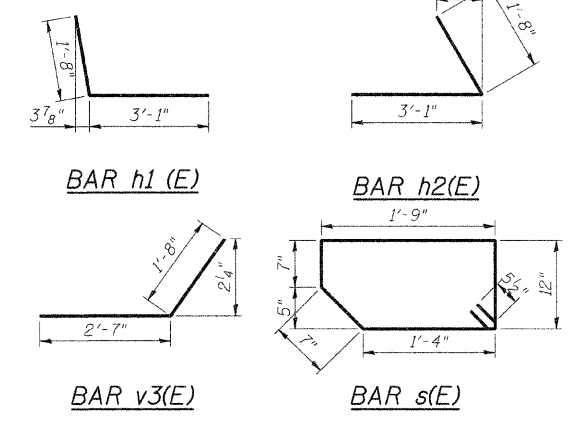
SECTION A-A



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	Location
h(E)	32	#5	13'-0"	—	Approach Slab
h1(E)	6	#5	4'-9"	—	Wingwall- Abutment
h2(E)	6	#5	4'-9"	—	Wingwall- Abutment
h3(E)	20	#5	13'-0"	—	Approach Slab
h4(E)	36	#6	23'-3"	—	Abutment
v(E)	88	#5	2'-10"	—	Abutment
v1(E)	88	#5	2'-5"	—	Abutment
v2(E)	10	#6	4'-3"	—	Wingwall
v3(E)	10	#6	4'-3"	—	Wingwall
s(E)	88	#5	6'-2"	—	Abutment
Reinforcement Bars, Epoxy Coated					POUNDS 3,200
Concrete Removal					Cu. Yd. 16.2
Concrete Superstructure					Cu. Yd. 20.7



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

**CONCRETE PLACEMENT
WEST ABUTMENT**
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

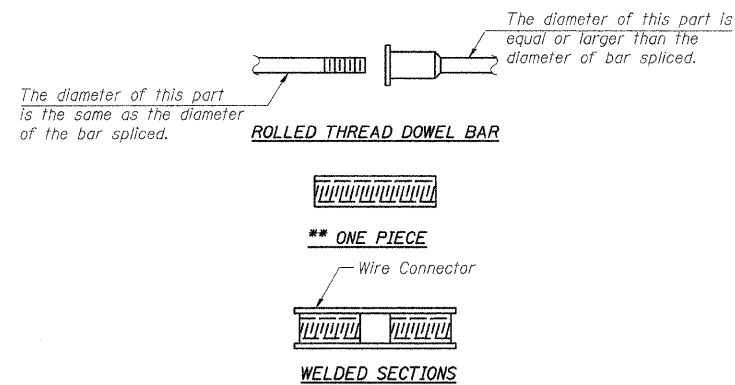
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	17
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				
CONTRACT 64E18				

SHEET NO. 15
15 SHEETS

NOTES

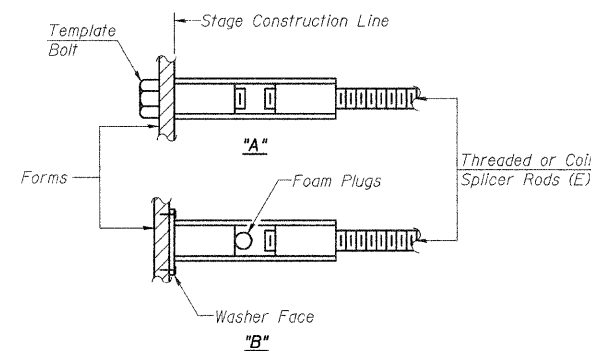
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the 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) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete



BAR SPLICER ASSEMBLY ALTERNATIVES

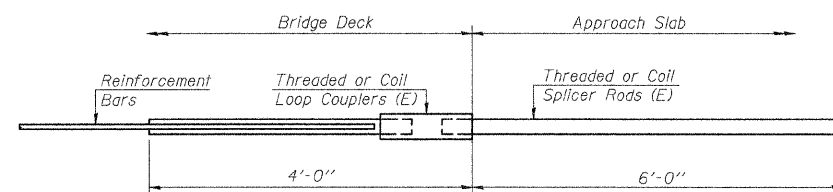
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

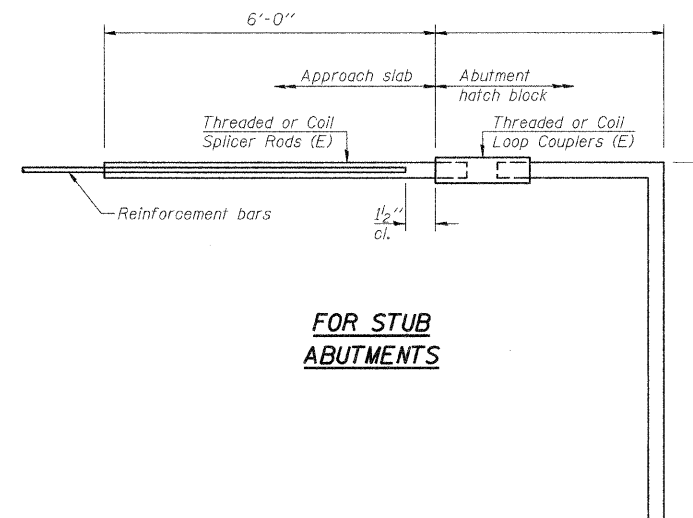
"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

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'-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



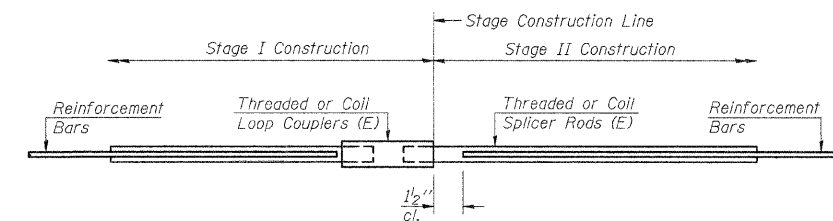
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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
#5	52	Deck
#6	36	Abutment
#5	32	Approach Slab

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

BSD-1

10-1-08

BAR SPLICER ASSEMBLY DETAILS

IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

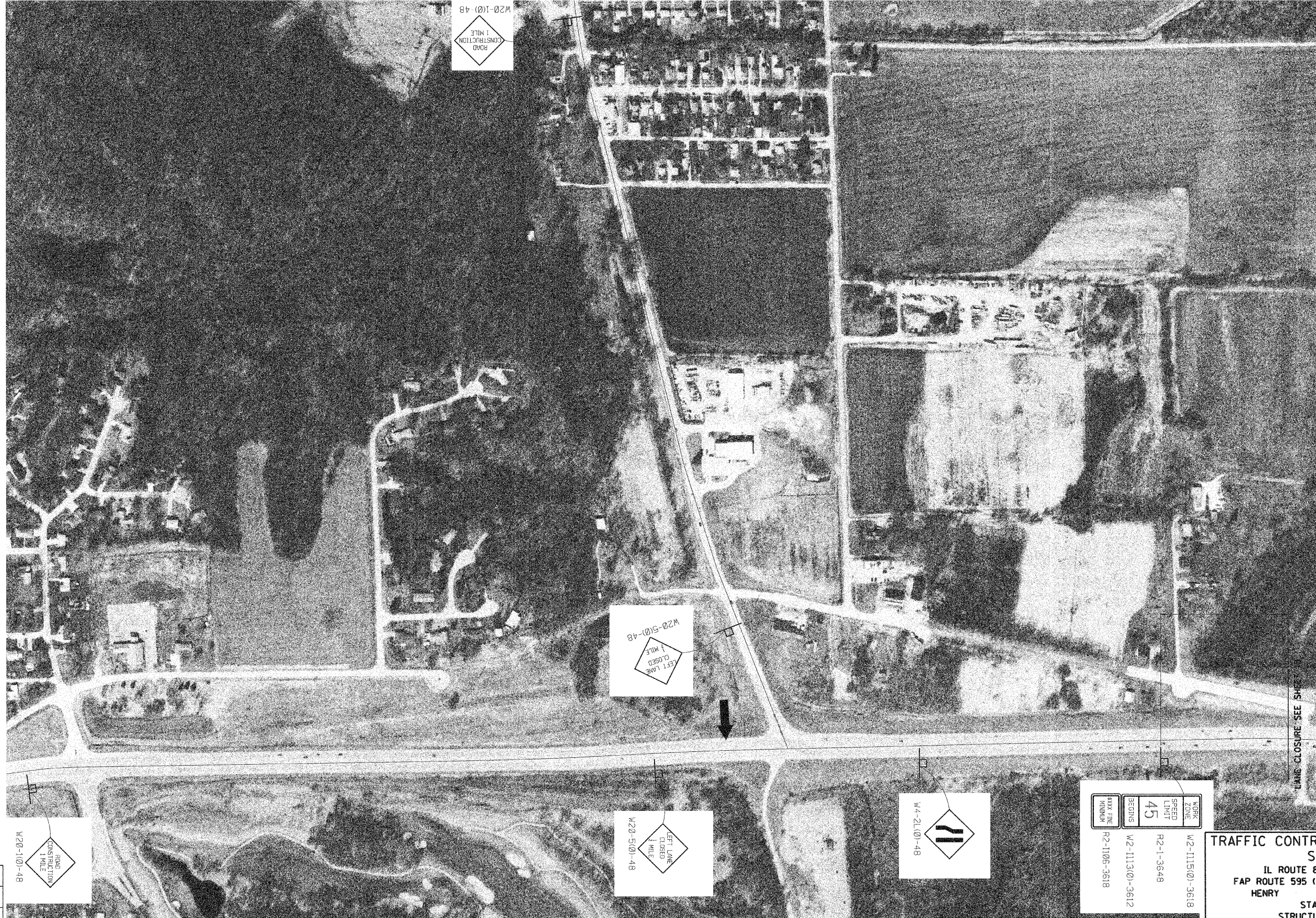
SCALE: DATE: Sept. 30, 2009
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Chicago, Illinois 60602

Soodan

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	18
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

CONTRACT 64E18



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

WORK ZONE	W2-1115(0)-3618
SPEED LIMIT	45
BEGINS	W2-1113(0)-3612
ENDS	R2-1-3648
BYX FINE NUMBER	R2-1105-3618

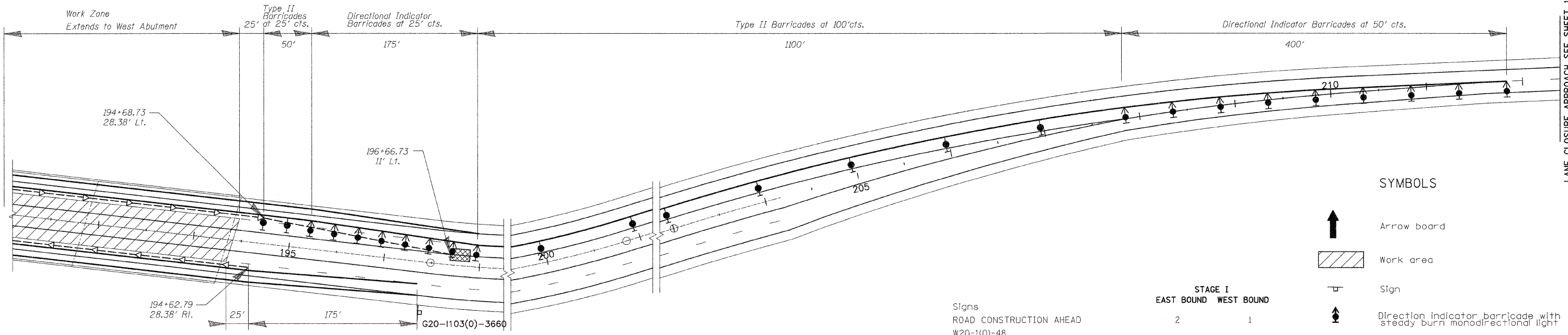
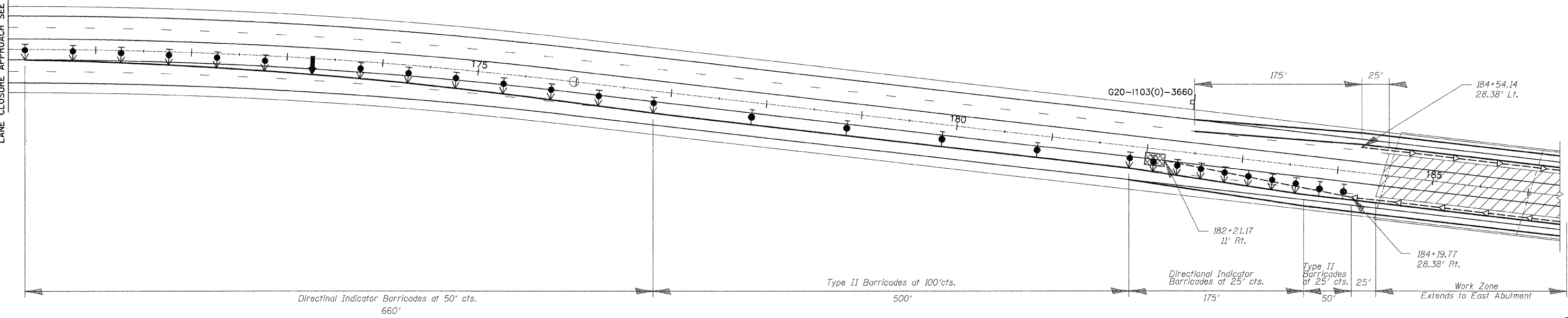
**TRAFFIC CONTROL AND PROTECTION
STAGE I**
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTY
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: 1" = 200' DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	11,21B-2M	HENRY and ROCK ISLAND	23	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18	

LANE CLOSURE APPROACH SEE SHEET 17



SUMMARY OF QUANTITIES TRAFFIC CONTROL AND PROTECTION

	STAGE I	
	EAST BOUND	WEST BOUND
Arrow board	2	2
Direction indicator barricade with steady burn monodirectional light	21	17
Type II barricade with steady burn monodirectional light	6	11
Impact attenuator	1	1
Temporary concrete barrier	1300'	1300'

Signs
ROAD CONSTRUCTION AHEAD
W20-1(0)-48

LEFT LANE CLOSED 1/2 MILE
W20-5(0)-48

W4-2L(0)-48 (lane ends)
W1-4R(0)-48
or STAY IN YOUR LANE









WORK ZONE
W2-1115(0)-3618
SPEED LIMIT 55
R2-1-3648
W2-1113(0)-3612
#XXX FINE MINIMUM
W21-1106(0)-3618

END WORK ZONE SPEED LIMIT
G20-1103(0)-3660

STAGE I
EAST BOUND WEST BOUND

2	1
2	-
1	-
-	1
1	1
1	1
1	1
1	1
1	1
1	1

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
-  Type C Monodirectional reflector
-  Impact attenuator

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

TRAFFIC CONTROL AND PROTECTION
STAGE I
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION 11,21B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-012B

SCALE: 1" = 50' DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

LANE CLOSURE APPROACH SEE SHEET 19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	20
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

CONTRACT 64E18



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.



TRAFFIC CONTROL AND PROTECTION
STAGE I
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

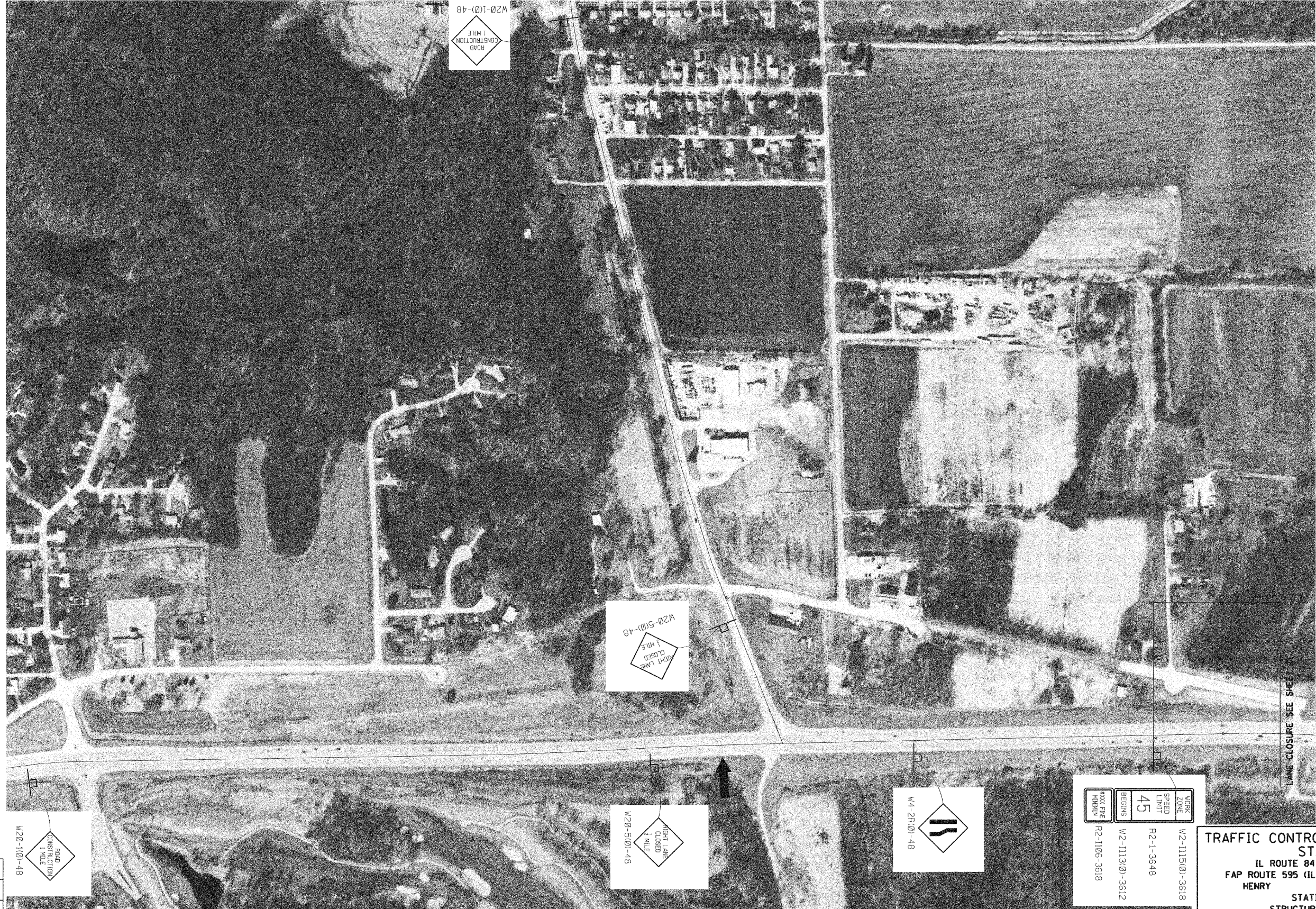
SCALE: 1" = 200' DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	11,21B-2M	HENRY and ROCK ISLAND	23	21
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				

CONTRACT 64E18



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

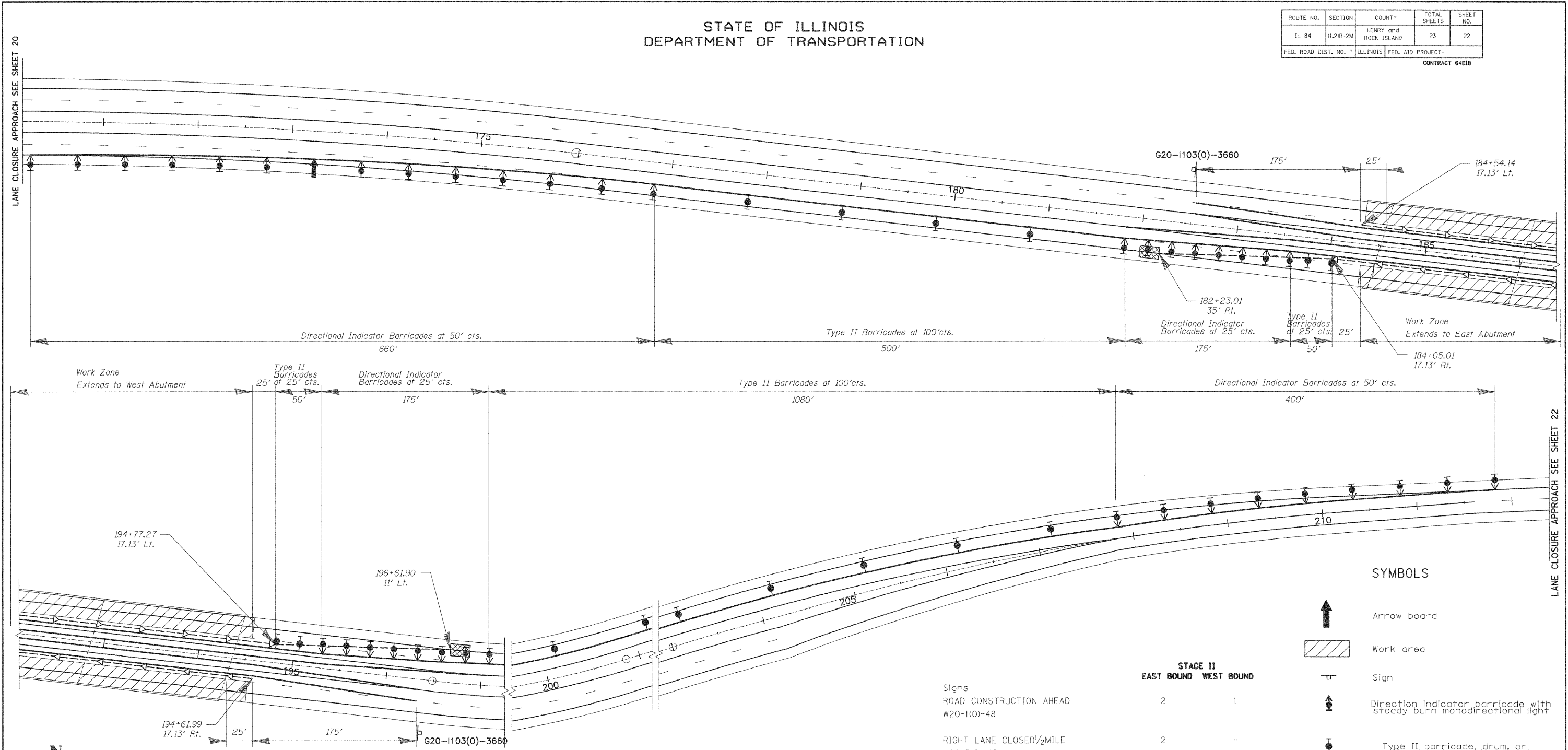
WORK ZONE	W2-1115(0)-3618
BASED LANE	R2-1-3648
45	
BEGINS	W2-1113(0)-3612
ENDS	R2-1105-3618
\$\$\$ FINE MINIMUM	

TRAFFIC CONTROL AND PROTECTION
STAGE II
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION 11,21B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

SCALE: 1" = 200' DATE: Sept. 30, 2009
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT 64E18	



SUMMARY OF QUANTITIES TRAFFIC CONTROL AND PROTECTION

	STAGE I I	
	EAST BOUND	WEST BOUND
Arrow board	2	-
Direction indicator barricade with steady burn monodirectional light	21	17
Type II barricade with steady burn monodirectional light	6	11
Relocate Impact attenuator	1	1
Relocate Temporary concrete barrier	1300'	1300'

DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.

Signs	STAGE II	
	EAST BOUND	WEST BOUND
ROAD CONSTRUCTION AHEAD W20-1(O)-48	2	1
RIGHT LANE CLOSED 1/2 MILE W20-5(O)-48	2	-
W4-2R(O)-48 (lane ends)	1	-
W1-4R(O)-48 or STAY IN YOUR LANE	-	1
WORK ZONE W2-1115(O)-3618	1	1
SPEED LIMIT 55 R2-1-3648	1	1
BEGINS W2-1113(O)-3612	1	1
\$XXX FINE MINIMUM W21-1106(O)-3618	1	1
END WORK ZONE SPEED LIMIT G20-1103(O)-3660	1	1

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
- Type C Monodirectional reflector
- Impact attenuator

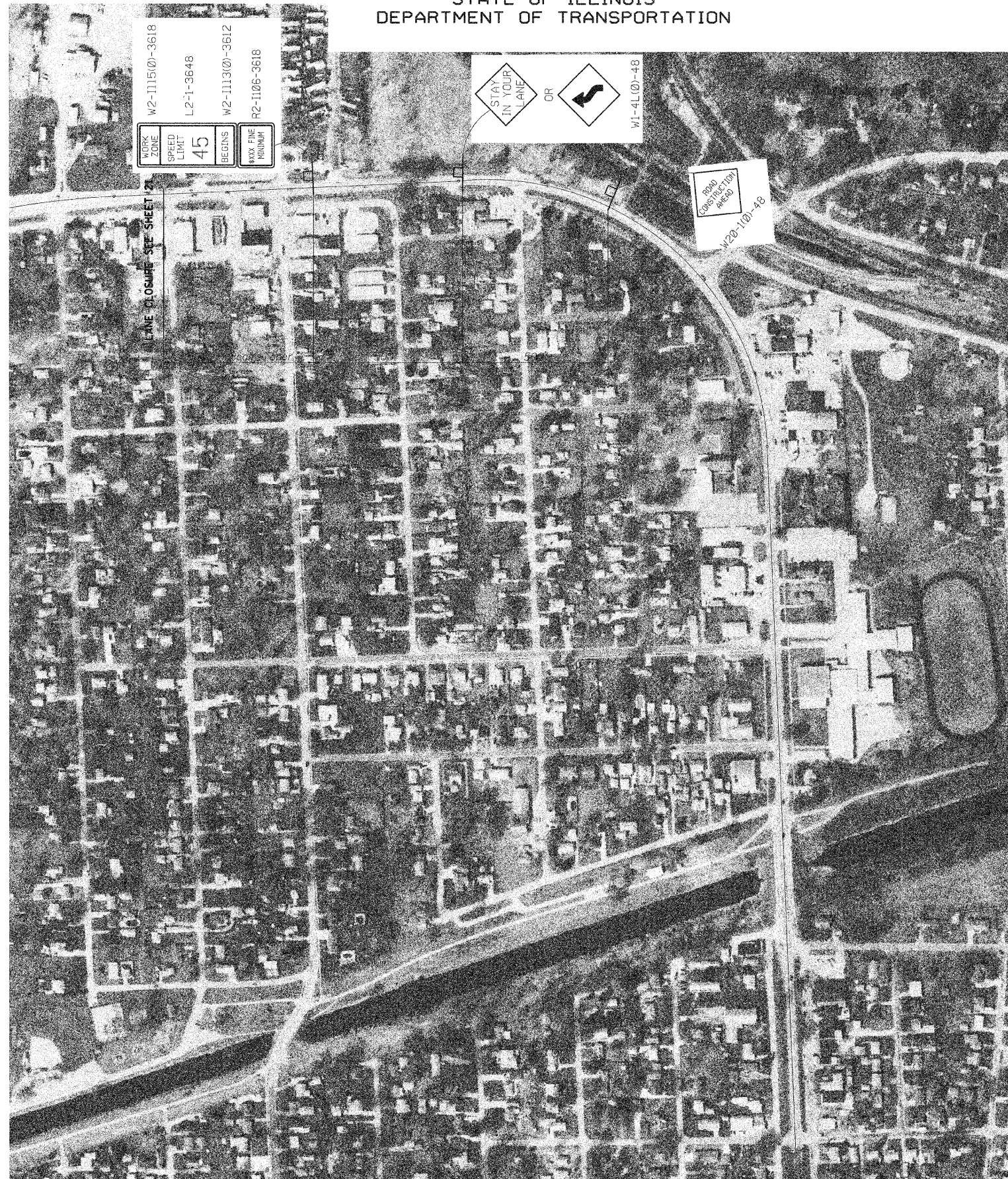
TRAFFIC CONTROL AND PROTECTION
STAGE II
 IL ROUTE 84 OVER ROCK RIVER
 FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
 HENRY COUNTIES
 STATION 189+44
 STRUCTURE NO. 037-0128

SCALE: 1" = 50' DATE: Sept. 30, 2009
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 84	(1,2)B-2M	HENRY and ROCK ISLAND	23	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT 64E18



DESIGNED	M.H.
CHECKED	P.B.
DRAWN	C.L.
CHECKED	M.H./P.B.



TRAFFIC CONTROL AND PROTECTION
STAGE II
IL ROUTE 84 OVER ROCK RIVER
FAP ROUTE 595 (IL 84), SECTION (1,2)B-2-M
HENRY COUNTIES
STATION 189+44
STRUCTURE NO. 037-0128

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