

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 57 (I-57)
SECTION D9 BSMART FY09-2
MICROSILICA OVERLAYS AND MISC REPAIRS
OVER IL RT 3, OUTER RD,
C.N.I.C. RR AND LEVEE RD
ALEXANDER COUNTY
C-99-032-09

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D9 BSMART FY09-2	ALEXANDER	45	1
		ILLINOIS	CONTRACT NO. 78111	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

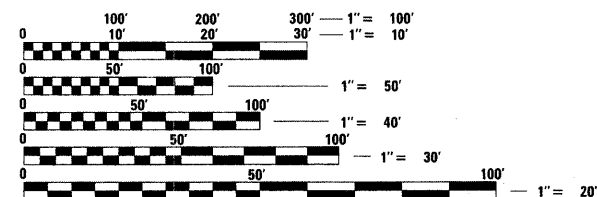
TRAFFIC DATA

I-57 TRAFFIC DATA

2007 ADT = 10,200
37% TRUCKS

TOWNSHIPS:

CACHE NO. 2



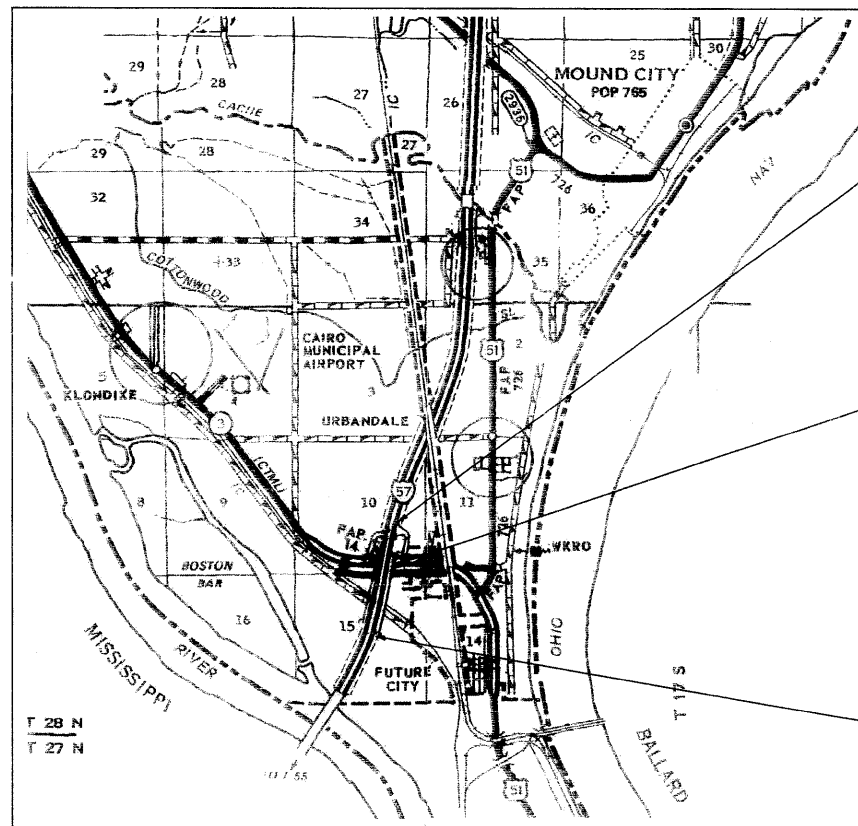
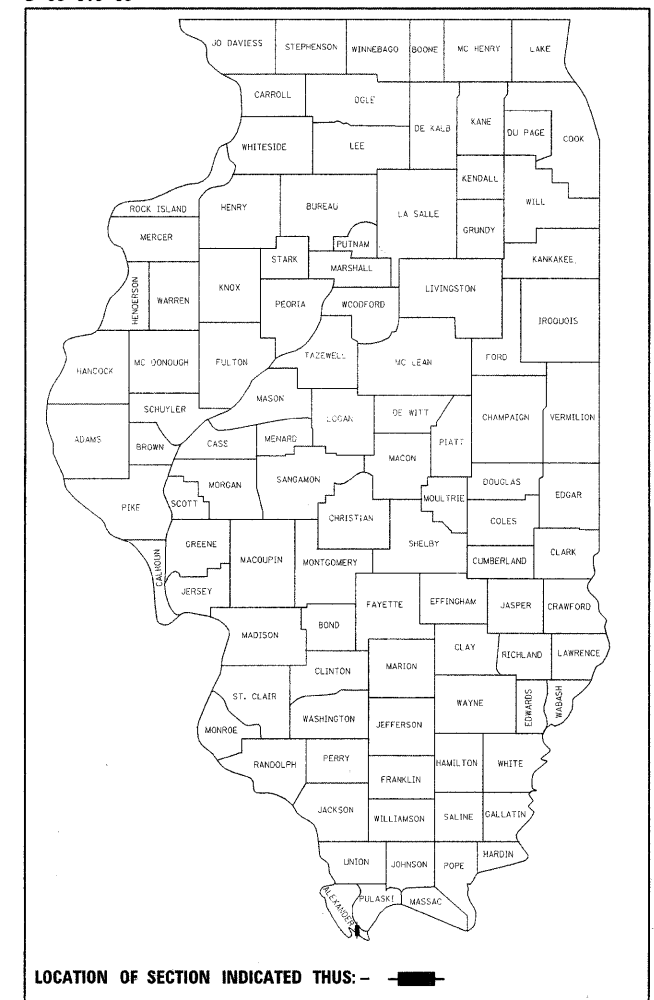
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DAVID PICHE (618) 351-5227
DESIGNER: T. WAYNE HALSTEAD (618) 351-5228

CONTRACT NO. 78111

D-99-015-09



PROPOSED PROJECT BEGINS
STA 1088+77.5 (SB)
STA 1089+66.5 (NB)

PROPOSED MICROSILICA OVERLAY
AND MISC REPAIRS
OVER IL RT 3
STRUCTURE NO. 002-0024 (SB)
& STRUCTURE NO. 002-0023 (NB)

PROPOSED PROJECT ENDS
STA 1119+53.7 (SB)
STA 1119+84.2 (NB)

GROSS LENGTH OF PROJECT = 3106.7 FT

SN 002-0023 (NB)
BRIDGE LENGTH = 3017.7 FT
NET LENGTH = 3017.7 FT

SN 002-0024 (SB)
BRIDGE LENGTH = 2974.2 FT
ROADWAY LENGTH = 102.5 FT
NET LENGTH = 3076.7 FT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 10, 2009

May C. Sami
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 1, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

May 1, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

- 1) THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- 2) FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 ALL HOT MIX ASPHALT 2.016 TONS/CU YD
 BITUMINOUS MATERIALS: ON PAVEMENT 0.09 GAL /SQ YD
- 3) PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- 4) IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
- 5) COMMITMENTS: NONE AS OF JUNE 12, 2009.

STAGING AND TRAFFIC CONTROL SCHEDULE

LOCATION STATION TO STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	FOOT	FOOT
STAGE 1		
STA 1089+54.0 TO STA 1091+66.5 EB	212.5	
STA 1104+91.0 TO STA 1107+16.0 EB	225	
STA 1119+59.0 TO STA 1121+84.0 EB	225	
STA 1087+79.5 TO STA 1090+04.5 WB	225	
STA 1102+79.0 TO STA 1105+04.0 WB	225	
STA 1117+53.0 TO STA 1119+78.0 WB	225	
	1,337.5	
STAGE 2		
STA 1109+59.0 TO STA 1119+59.0 EB	1,000	
STA 1090+04.0 TO STA 1100+04.0 WB	1,000	
	2,000	
STAGE 3		
STA 1099+59.0 TO STA 1109+59.0 EB		1,000
STA 1109+84.0 TO STA 1111+59.0 EB		175
STA 1098+04.0 TO STA 1099+79.0 WB		175
STA 1100+04.0 TO STA 1110+04.0 WB		1,000
		2,350
STAGE 4		
STA 1089+59.0 TO STA 1099+59.0 EB		1,000
STA 1099+84.0 TO STA 1101+59.0 EB		175
STA 1108+04.0 TO STA 1109+79.0 WB		175
STA 1110+04.0 TO STA 1119+79.0 WB		975
		2,325
STAGE 5		
STA 1089+41.0 TO STA 1091+91.0 EB		250
STA 1104+91.0 TO STA 1107+41.0 EB		250
STA 1119+59.0 TO STA 1122+09.0 EB		250
STA 1087+91.5 TO STA 1090+04.0 WB		212.5
STA 1102+54.0 TO STA 1105+04.0 WB		250
STA 1117+28.0 TO STA 1119+78.0 WB		250
		1,462.5
STAGE 6		
STA 1109+59.0 TO STA 1119+59.0 EB		1,000
STA 1090+04.0 TO STA 1100+04.0 WB		1,000
		2,000
STAGE 7		
STA 1099+59.0 TO STA 1109+59.0 EB		1,000
STA 1109+84.0 TO STA 1111+84.0 EB		200
STA 1097+79.0 TO STA 1099+79.0 WB		200
STA 1100+04.0 TO STA 1110+04.0 WB		1,000
		2,400
STAGE 8		
STA 1089+46.5 TO STA 1099+59.0 EB		1,012.5
STA 1099+84.0 TO STA 1101+84.0 EB		200
STA 1107+79.0 TO STA 1109+79.0 WB		200
STA 1110+04.0 TO STA 1119+79.0 WB		975
		2,387.5
TOTAL	3,337.5	12,925

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, MIX REQUIREMENTS, SIGNATURE BLOCK
- 3 SUMMARY OF QUANTITIES
- 4-11 STAGE CONSTRUCTION DETAILS, STAGES 1-8
- 12 RAMP CLOSURE DETAILS
- 13 GENERAL PLAN AND ELEVATION OF STRUCTURES
- 14 DECK SLAB REPAIRS
- 15 SUGGESTED SEQUENCE OF CONSTRUCTION AND STAGING DIMENSIONS
- 16 BUTT JOINT DETAILS
- 17-22 JOINT REPLACEMENT DETAILS
- 23 DRAINS AND RAILING DETAILS
- 24 PREFORMED JOINT STRIP SEAL DETAILS
- 25 BAR SPLICER ASSEMBLY DETAILS
- 26 TEMPORARY CONCRETE BARRIER DETAILS
- 27-38 SUBSTRUCTURE REPAIR DETAILS
- 39-45 ORIGINAL PLAN DETAILS

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N105
AC/PG:	SBS PG76-22
RAP% (MAX):	0
DESIGN AIR VOIDS:	4%, 105 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 MM OR 12.5 MM
FRICITION AGGREGATE:	D SURFACE

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS
MIXTURE USE(S):	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
AC/PG:	PG64-22
RAP% (MAX):	10
DESIGN AIR VOIDS:	4%, 70 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 MM OR 12.5 MM
FRICITION AGGREGATE:	C SURFACE

ILLINOIS HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
701101-02	OFF-ROAD, MULTILANE 15' TO PAVEMENT EDGE
701400-03	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE FREEWAY/EXPRESSWAY
701402-07	LANE CLOSURE FREEWAY/EXPRESSWAY, WITH BARRIER
701411-05	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATION ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701451	RAMP CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

Prepared By: *Joe Zambardino*
 DISTRICT SURVEY & PLANS ENGINEER

Examined By: *James Lewis Emery*
 DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carrie Nelson*
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Scott Wiley*
 DISTRICT OPERATIONS ENGINEER

Examined By: *Jim Smothers*
 DISTRICT CONSTRUCTION ENGINEER

Examined By: *Bruce Pucka*
 DISTRICT MATERIALS ENGINEER

Examined By: *Jim Smothers*
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: *Danny L. Clayton*
 ASSISTANT REGIONAL ENGINEER

Approved By: *May C. Hami*
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

DATE: March 18 2009

SUMMARY OF QUANTITIES

FUNDING
100% STATE
CONSTRUCTION TYPE CODE
SFTY-2A
ALEXANDER
SN 002-0023 & 002-0024

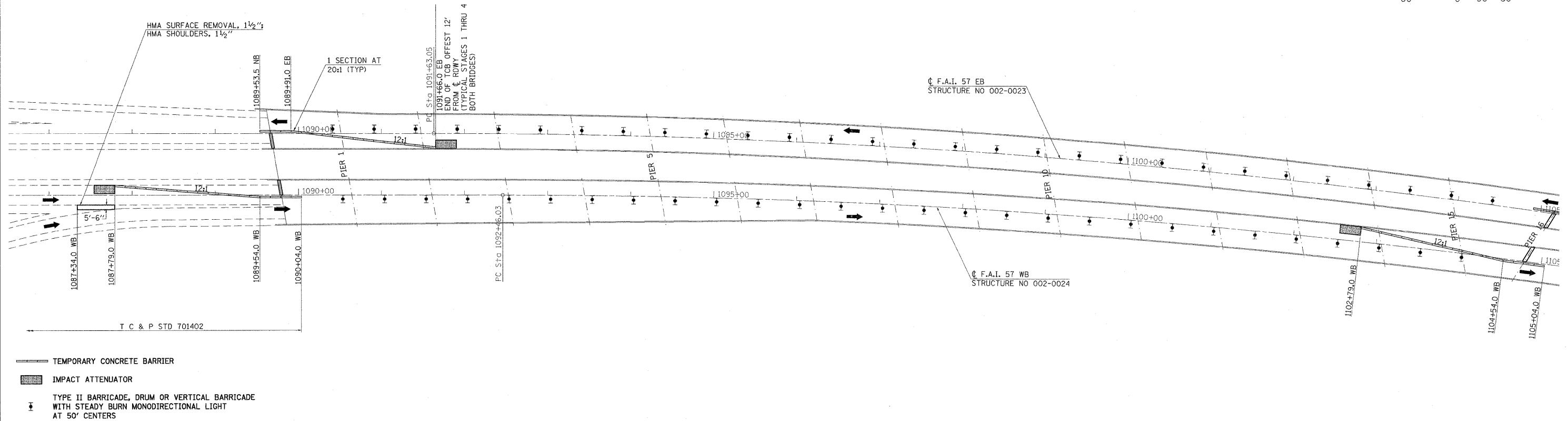
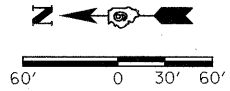
CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	174
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	123
40600990	TEMPORARY RAMP	SQ YD	15
40603550	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "D", N105	TON	21
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	90
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	648
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	26322
48203100	HOT-MIX ASPHALT SHOULDERS	TON	55
50102400	CONCRETE REMOVAL	CU YD	44.3
50157300	PROTECTIVE SHIELD	SQ YD	892
50300255	CONCRETE SUPERSTRUCTURE	CU YD	48.8
50300260	BRIDGE DECK GROOVING	SQ YD	25060
50300300	PROTECTIVE COAT	SQ YD	26400
50300530	FLOOR DRAIN EXTENSION	EACH	758
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5020
50800515	BAR SPLICERS	EACH	76
52000110	PREFORMED JOINT STRIP SEAL	FOOT	278
64200105	SHOULDER RUMBLE STRIP	FOOT	1155
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	11
67100100	MOBILIZATION	L SUM	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	4
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	11
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	700
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	14860
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5190
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3337.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	12925
* 78004210	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 4"	FOOT	15180
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	80
78300100	PAVEMENT MARKING REMOVAL	SQ FT	495

FUNDING
100% STATE
CONSTRUCTION TYPE CODE
SFTY-2A
ALEXANDER
SN 002-0023 & 002-0024

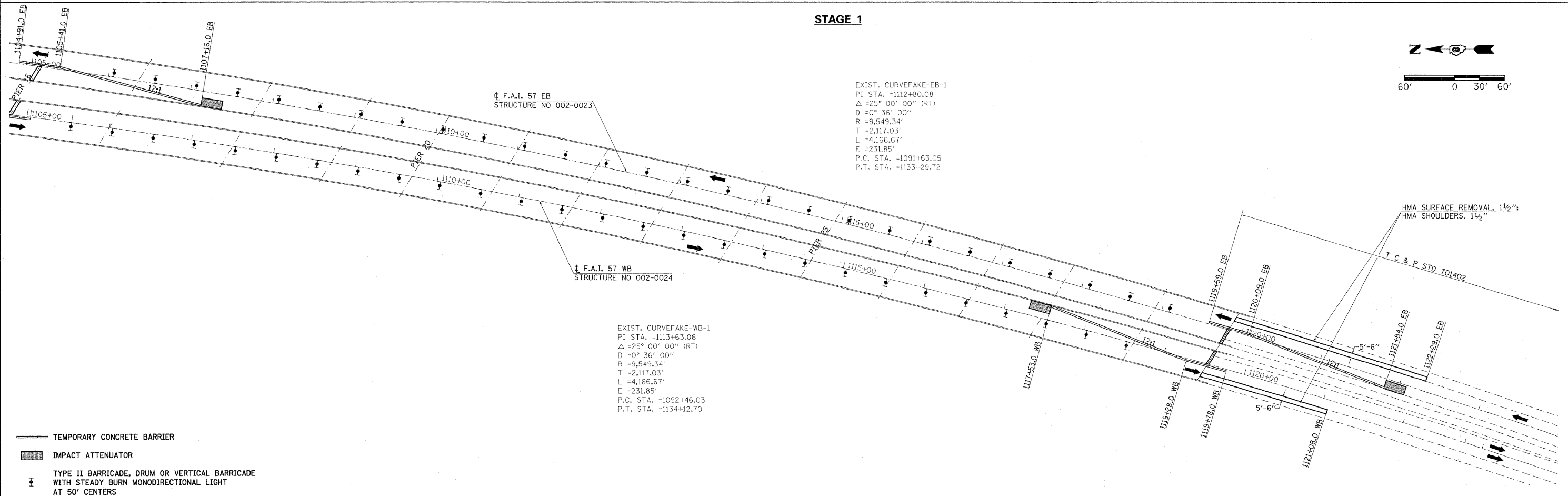
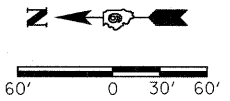
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78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80
X0321460	PLUG EXISTING DECK DRAINS	EACH	152
X0323644	PAVEMENT MARKING GROOVING	FOOT	15180
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	166
X7010820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	L SUM	1
XZ191200	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	26322
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	26322
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	26
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	6
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	8

*SPECIALTY ITEMS

STAGE 1

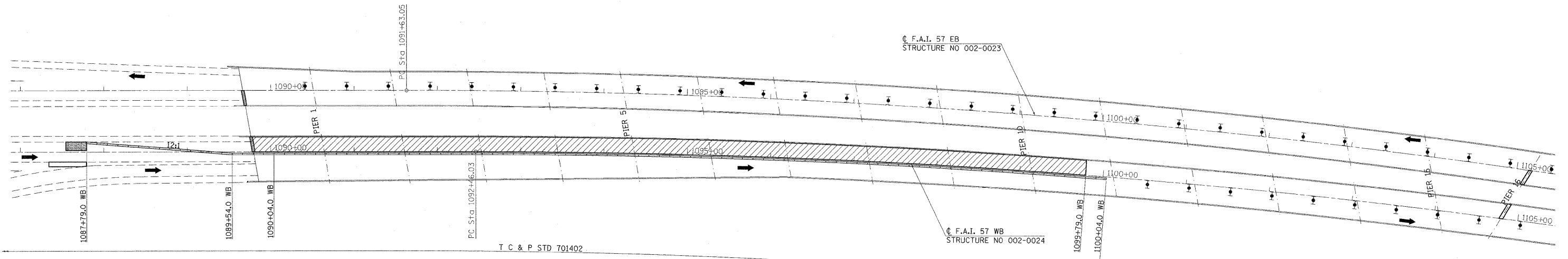
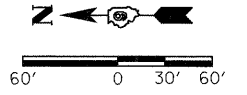


STAGE 1



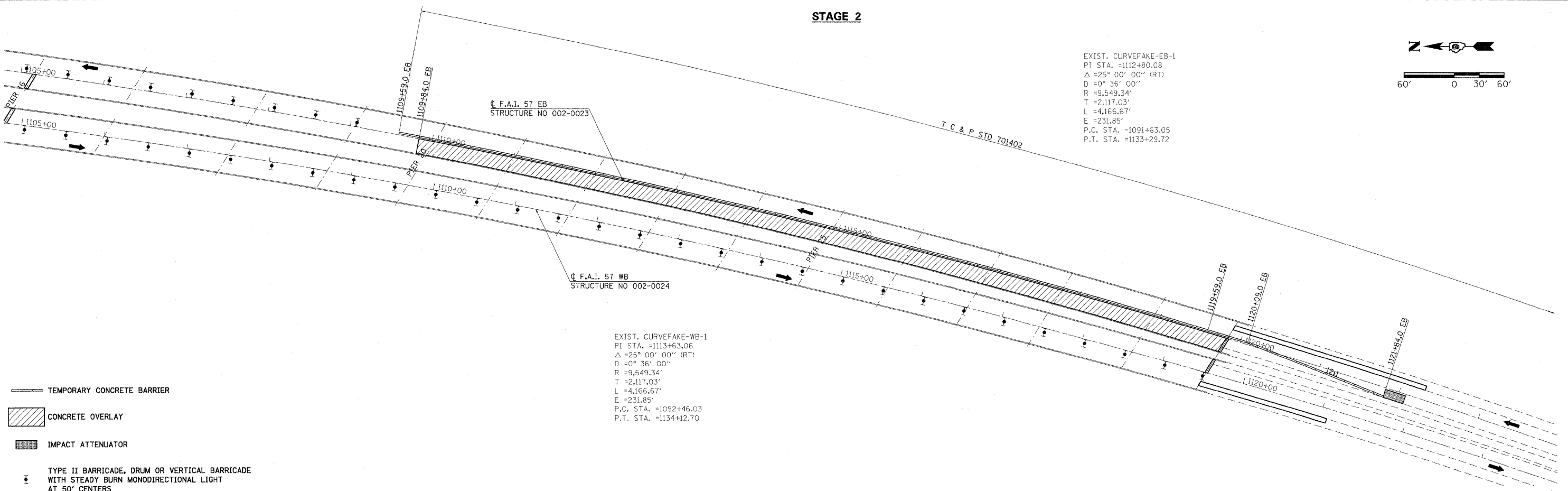
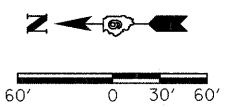
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		CHECKED -	REVISED -		CONTRACT NO. 78111										
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										

STAGE 2



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

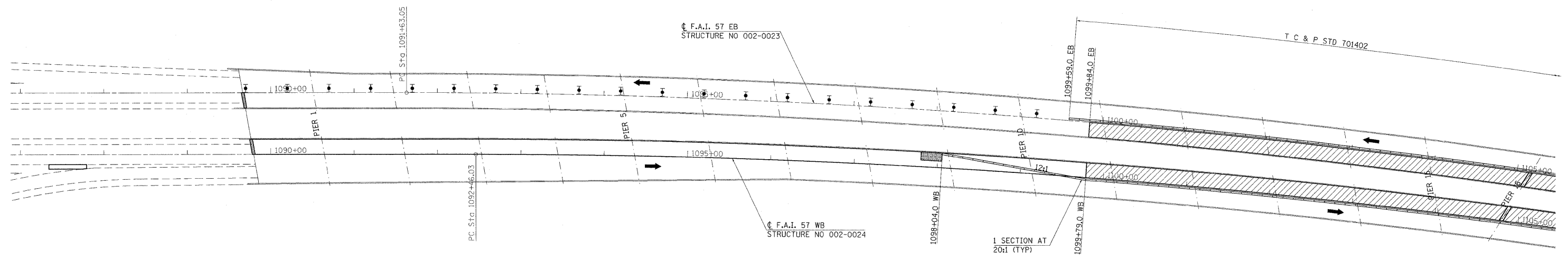
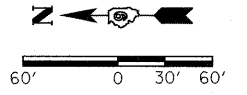
STAGE 2



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

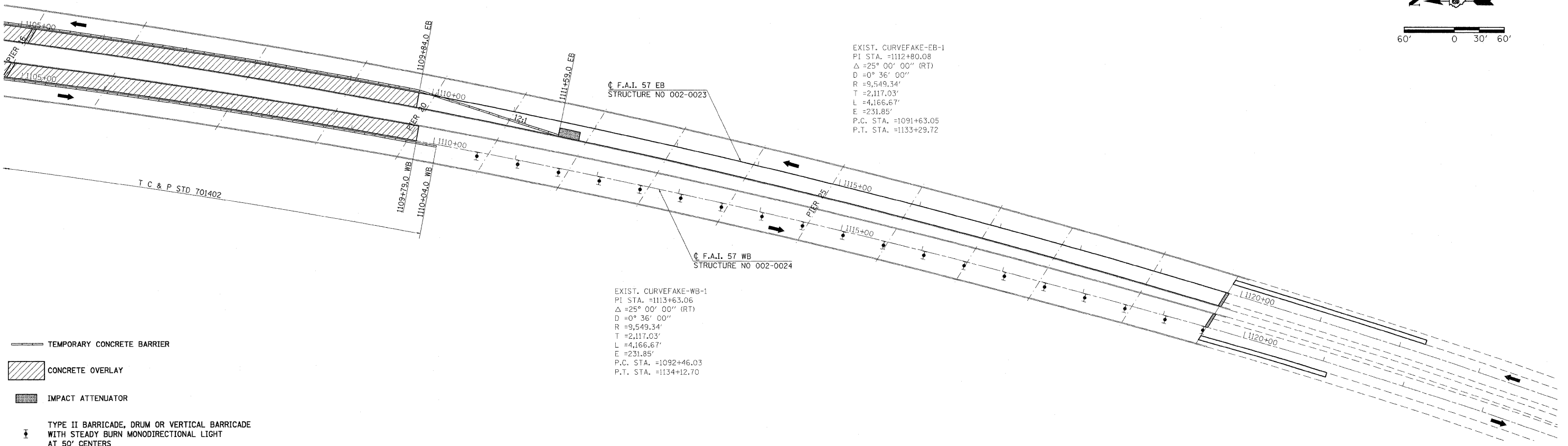
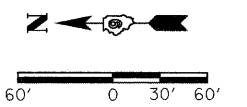
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		PLOT SCALE = 60,0000' / IN.	CHECKED -		REVISED -	CONTRACT NO. 78111									
		PLOT DATE = 4/2/2009	DATE -		REVISED -	ILLINOIS FED. AID PROJECT									

STAGE 3



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

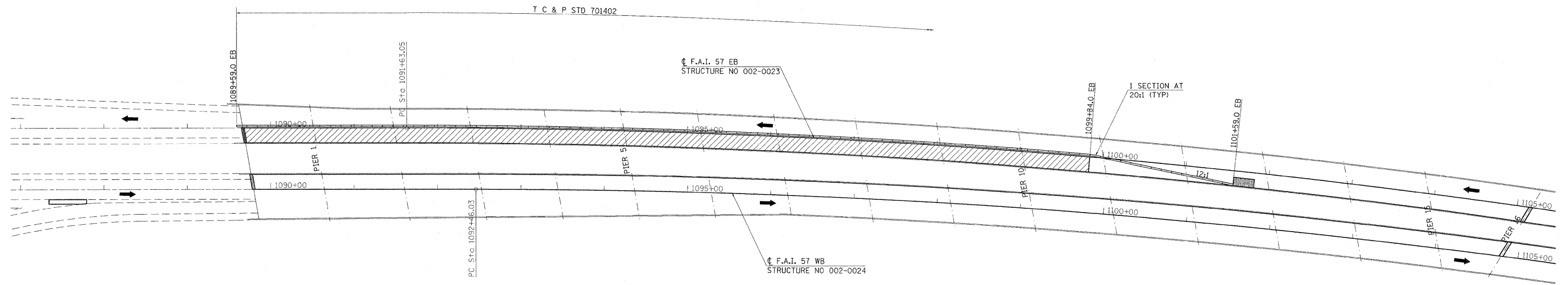
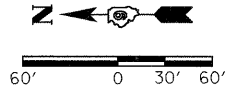
STAGE 3



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

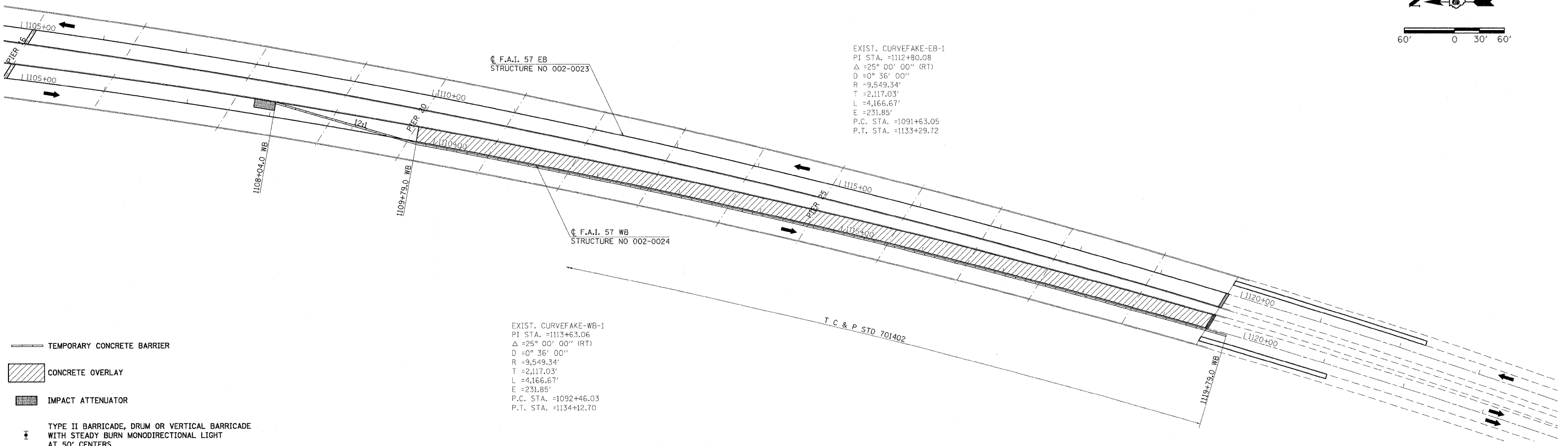
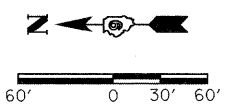
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PLOT DATE = 4/2/2009	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								

STAGE 4



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

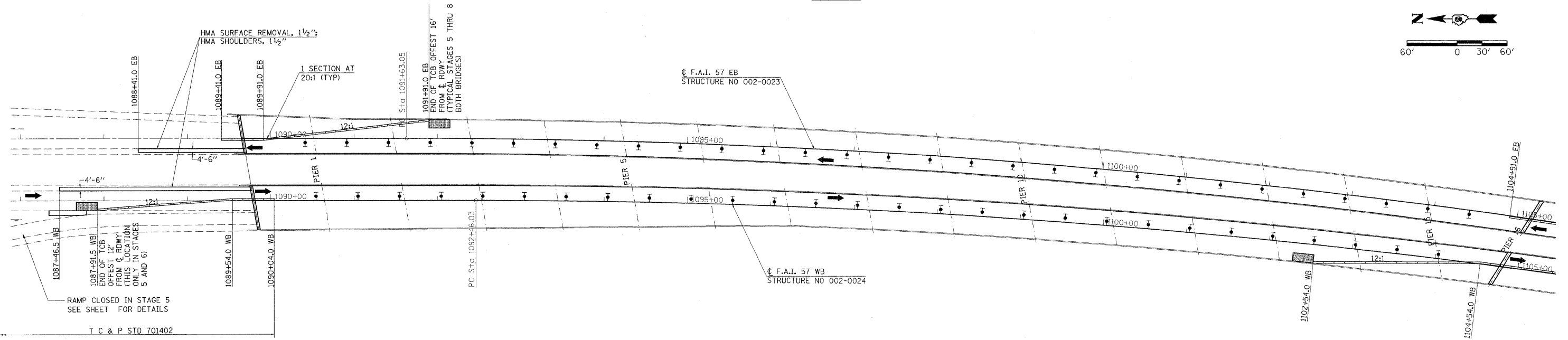
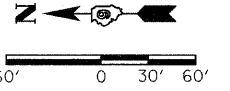
STAGE 4



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

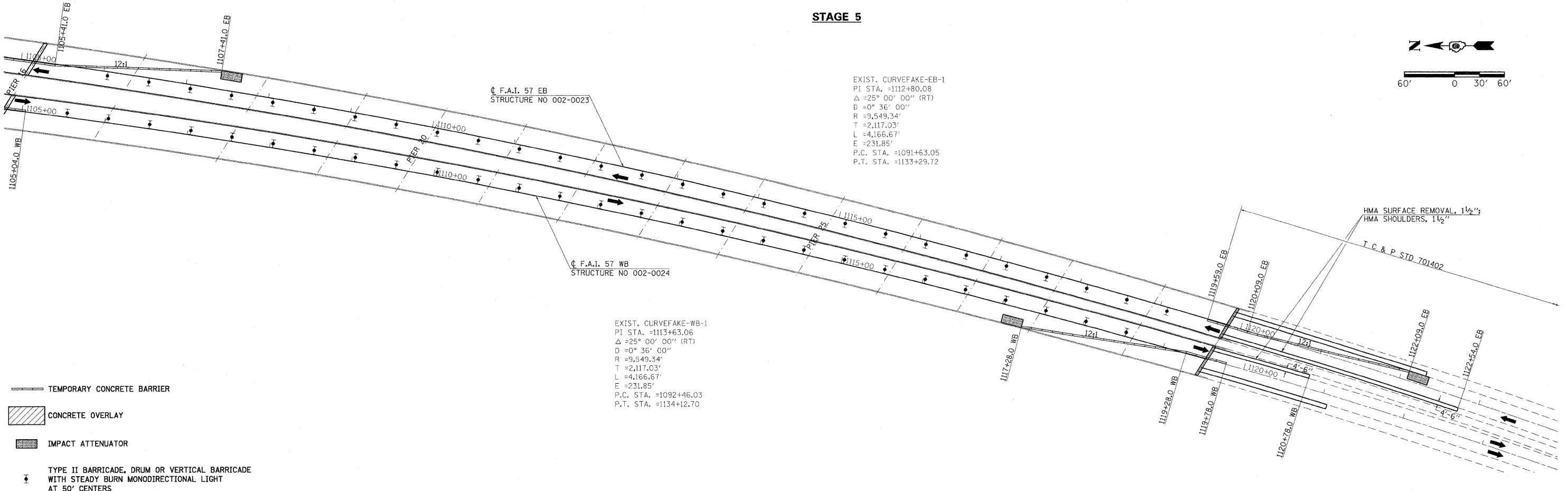
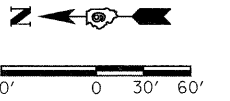
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PLOT SCALE = 60,0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 78111							
PLOT DATE = 4/2/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 1"=60'	SHEET NO.	OF	SHEETS	STA.	TO STA.			

STAGE 5



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

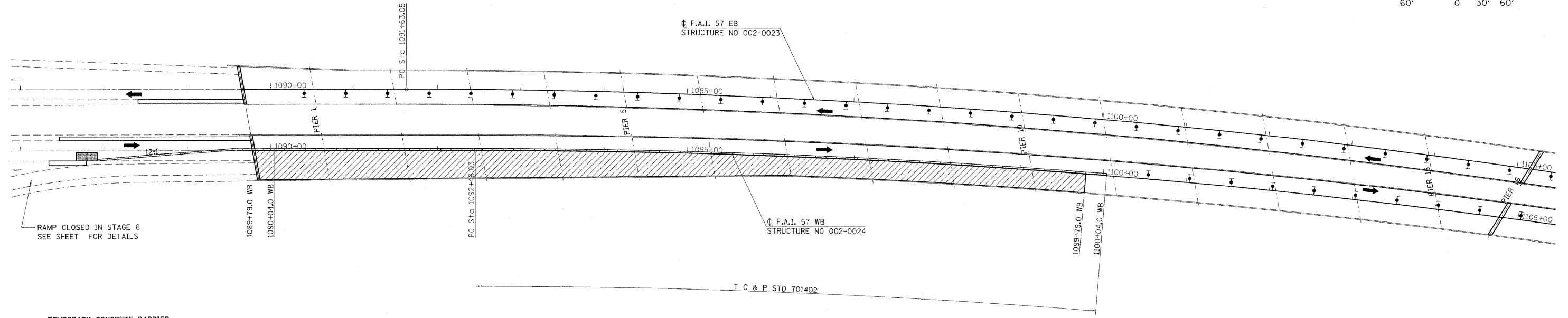
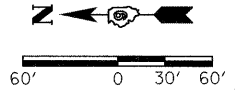
STAGE 5



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

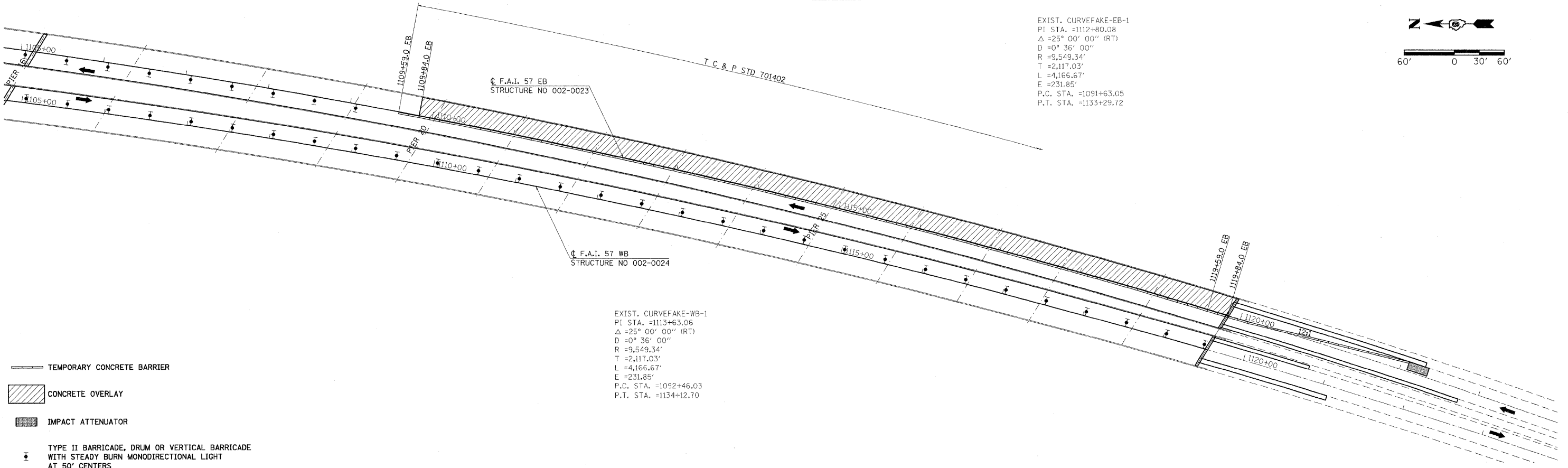
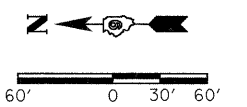
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	PLOT SCALE = 60.0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 78111				
PLOT DATE = 4/2/2009	DATE -	REVISED -	REVISED -	SCALE: 1"=60'			SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

STAGE 6



- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

STAGE 6



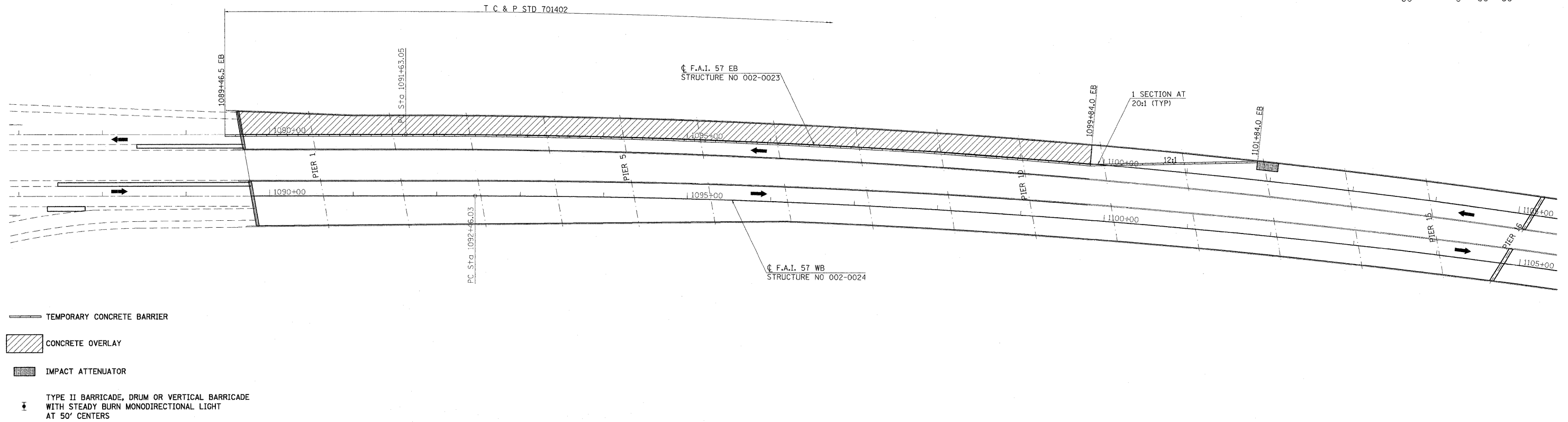
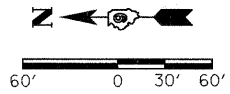
- TEMPORARY CONCRETE BARRIER
- CONCRETE OVERLAY
- IMPACT ATTENUATOR
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CENTERS

EXIST. CURVEFAKE-EB-1
 PI STA. =1112+80.08
 $\Delta = 25^\circ 00' 00''$ (RT)
 $D = 0^\circ 36' 00''$
 $R = 9,549.34'$
 $T = 2,117.03'$
 $L = 4,166.67'$
 $E = 231.85'$
 P.C. STA. =1091+63.05
 P.T. STA. =1133+29.72

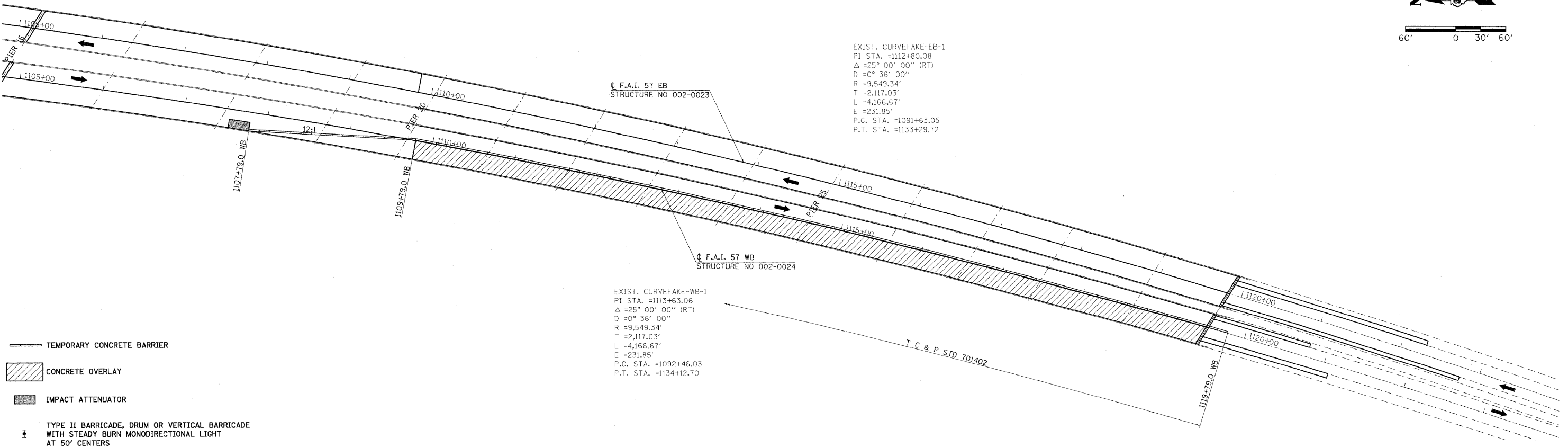
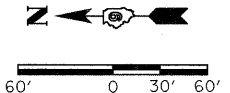
EXIST. CURVEFAKE-WB-1
 PI STA. =1113+63.06
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 $D = 0^\circ 36' 00''$
 $R = 9,549.34'$
 $T = 2,117.03'$
 $L = 4,166.67'$
 $E = 231.85'$
 P.C. STA. =1092+46.03
 P.T. STA. =1134+12.70

FILE NAME = c:\pwork\pwork\DOT\HALSTEADT\0113592\02-0023-sht-stage.dgn	USER NAME = halseedtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION STAGE 6			F.A.I. RTE. 57	SECTION D9 BSMART FY09-2	COUNTY ALEXANDER	TOTAL SHEETS 45	SHEET NO. 9
	PLOT SCALE = 60.0000' / IN.	CHECKED -	REVISED -		SCALE: 1"=60'	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 78111	
PLOT DATE = 4/2/2009	DATE -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								

STAGE 8

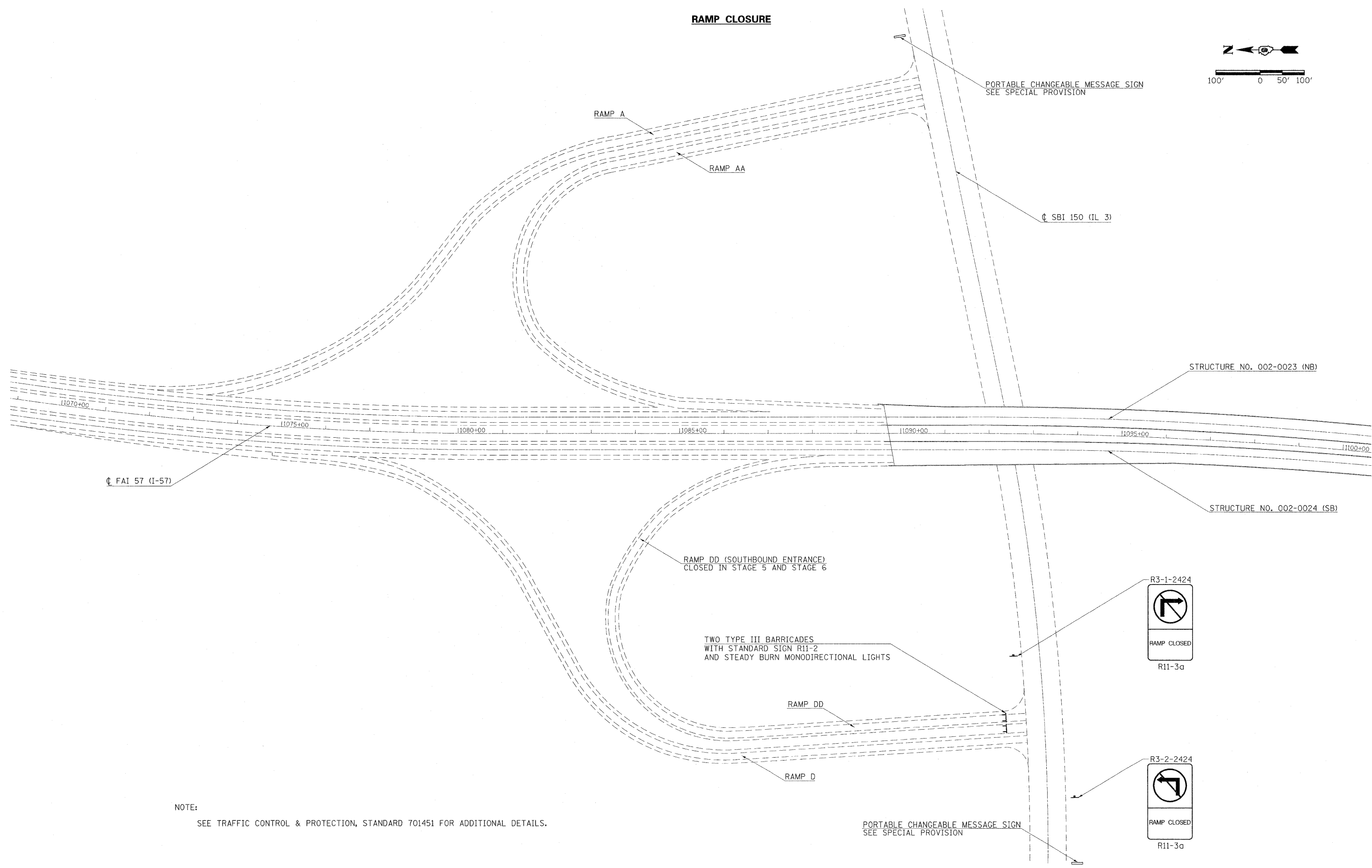
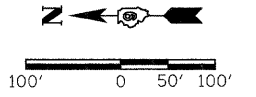


STAGE 8



FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION STAGE 8			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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		CHECKED -	REVISED -		CONTRACT NO. 78111										
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										

RAMP CLOSURE



FAI 57 (I-57)

PORTABLE CHANGEABLE MESSAGE SIGN
SEE SPECIAL PROVISION

SBI 150 (IL 3)

STRUCTURE NO. 002-0023 (NB)

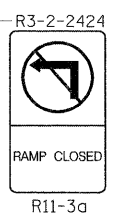
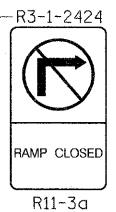
STRUCTURE NO. 002-0024 (SB)

RAMP DD (SOUTHBOUND ENTRANCE)
CLOSED IN STAGE 5 AND STAGE 6

TWO TYPE III BARRICADES
WITH STANDARD SIGN R11-2
AND STEADY BURN MONODIRECTIONAL LIGHTS

RAMP DD

RAMP D



NOTE:
SEE TRAFFIC CONTROL & PROTECTION, STANDARD 701451 FOR ADDITIONAL DETAILS.

PORTABLE CHANGEABLE MESSAGE SIGN
SEE SPECIAL PROVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

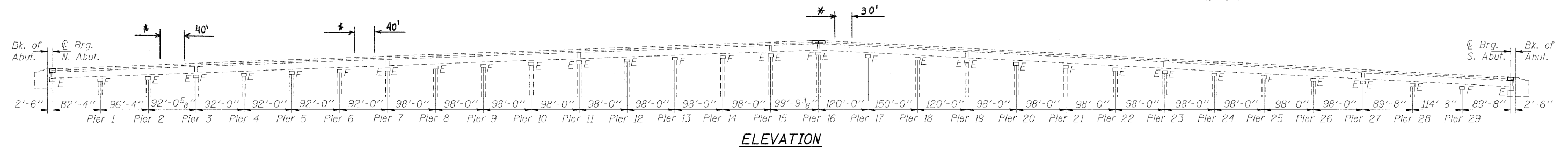
**RAMP CLOSURE
STRUCTURE NO 002-0024 (WB)**

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PLOT DATE = 4/2/2009		DATE -	REVISED -

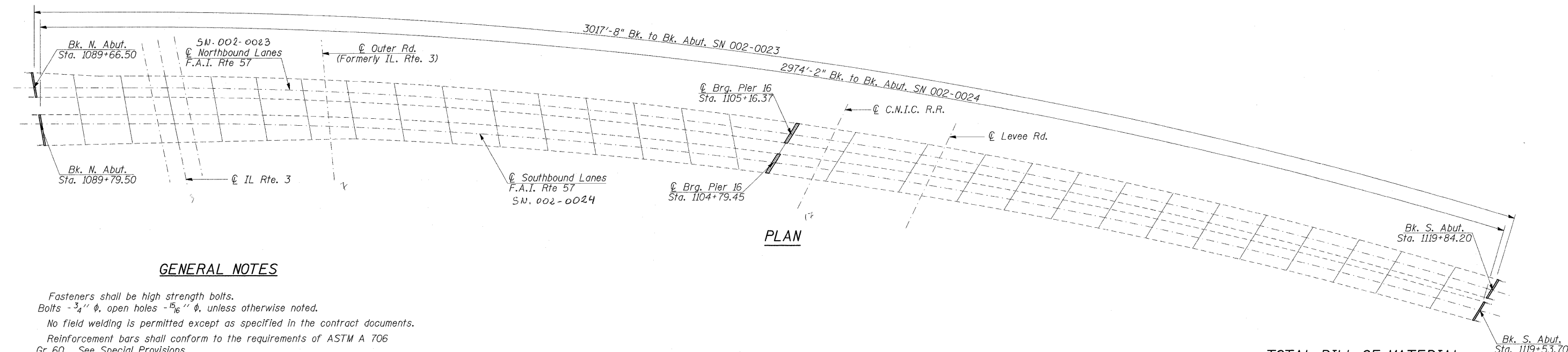
SCALE: 1"=100' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D9 SMART FY09-2	ALEXANDER	45	12
CONTRACT NO. 78111				
ILLINOIS FED. AID PROJECT				

* PROTECTIVE SHIELD LIMITS



ELEVATION



PLAN

GENERAL NOTES

Fasteners shall be high strength bolts.
 Bolts - $\frac{3}{4}$ " ϕ , open holes - $\frac{15}{16}$ " ϕ , unless otherwise noted.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck section, 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 $\frac{1}{4}$ inch 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.
 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 at the unit price bid for the work.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".
 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 Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	44.3
Concrete Superstructures	Cu. Yd.	48.8
Bridge Deck Grooving	Sq. Yd.	25,060
Bar Splicers	Each	76
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	166
Reinforcement Bars, Epoxy Coated	Pound	5020
Plug Existing Floor Drains	Each	152
Prefomed Joint Strip Seal	Foot	278
Floor Drain Extension	Each	758
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	26,322
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	26,322
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	26
Protective Coat	Sq. Yd.	26,400
HMA Surface Removal (Deck)	Sq. Yd.	26,322
PROTECTIVE SHIELD	Sq. Yd.	892

Design Stresses

FIELD UNITS (New Construction)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

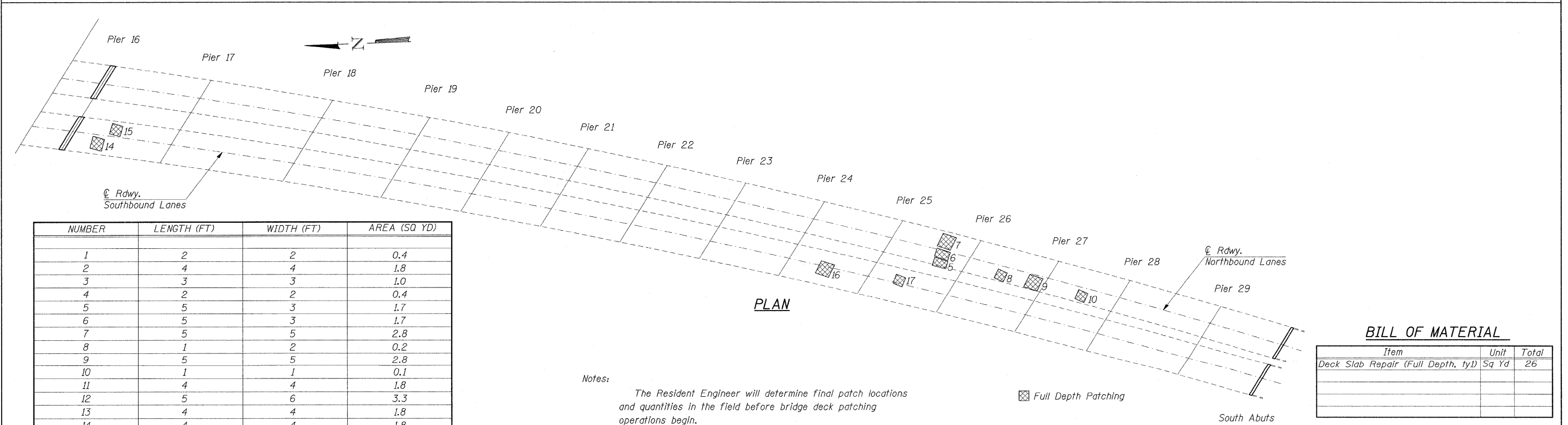
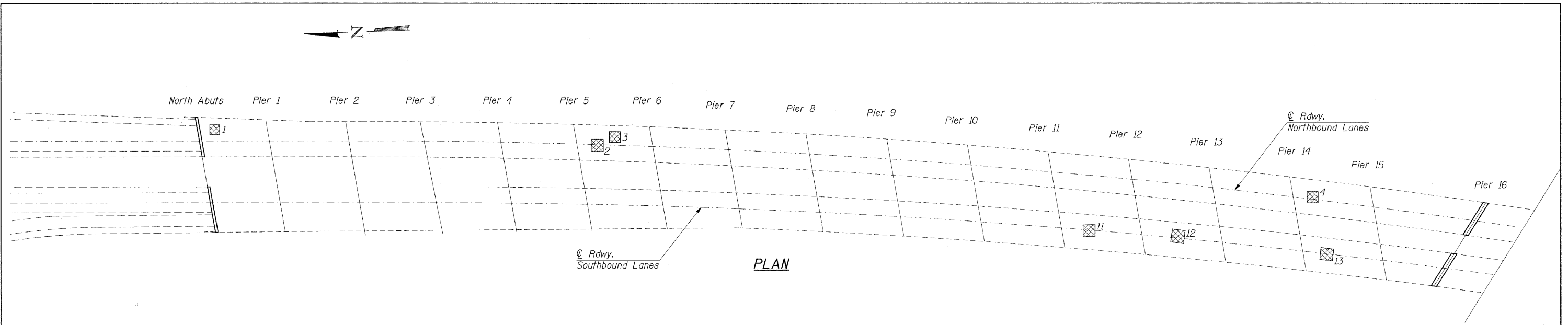
FIELD UNITS (Existing Construction)
 $f'_c = 3,500$ psi
 $f_c = 1,200$ psi (Deck Slab)
 $f_c = 1,400$ psi (Substructure, Curb & Parapet)
 $f_s = 20,000$ psi (reinforcement)
 $n = 10$



Expires Nov. 30, 2010

BRIDGE REPAIRS
FAI RT 57 OVER IL RT 3,
OUTER RD, C.N.I.C. R.R., & LEVEE RD
SECTION D9 BSMART FY09-2
ALEXANDER COUNTY
SN 002-0023 & 002-0024

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">PLAN AND ELEVATION SN 002-0023 & 002-0024</p>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLDT DATE = 4/3/2009		DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



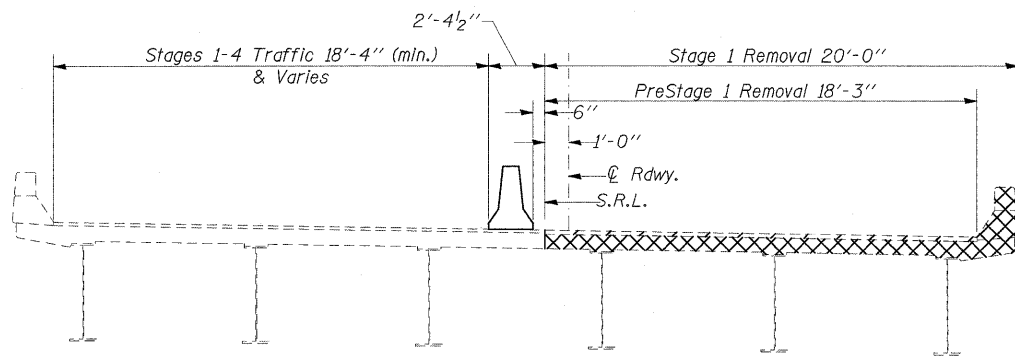
NUMBER	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
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2	4	4	1.8
3	3	3	1.0
4	2	2	0.4
5	5	3	1.7
6	5	3	1.7
7	5	5	2.8
8	1	2	0.2
9	5	5	2.8
10	1	1	0.1
11	4	4	1.8
12	5	6	3.3
13	4	4	1.8
14	4	4	1.8
15	3	3	1.0
16	5	5	2.8
17	1	1	0.1

Notes:
 The Resident Engineer will determine final patch locations and quantities in the field before bridge deck patching operations begin.
 Deck Slab Repair (Partial Depth) quantity estimated at 265 Sq Yd (info only).
 Area of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built plans.

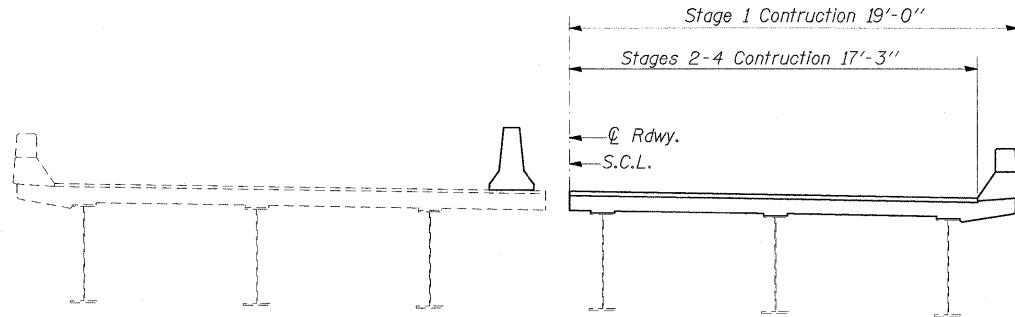
BILL OF MATERIAL

Item	Unit	Total
Deck Slab Repair (Full Depth, ty1)	Sq Yd	26

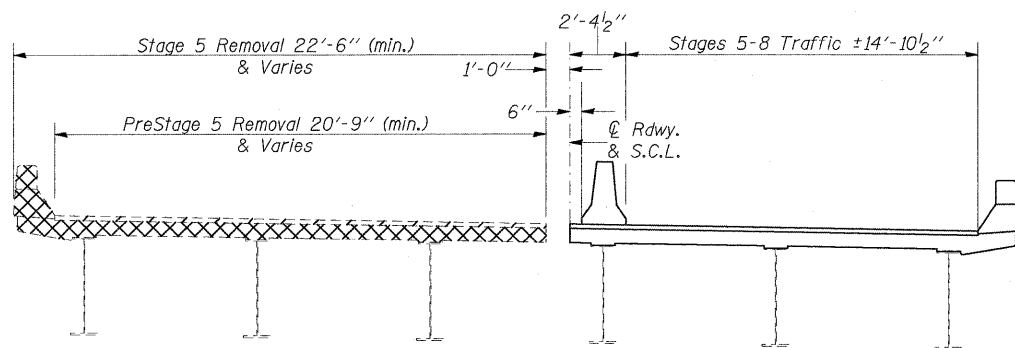
**DECK SLAB REPAIRS
 ALEXANDER COUNTY
 S.N. 002-0023 & 002-0024**



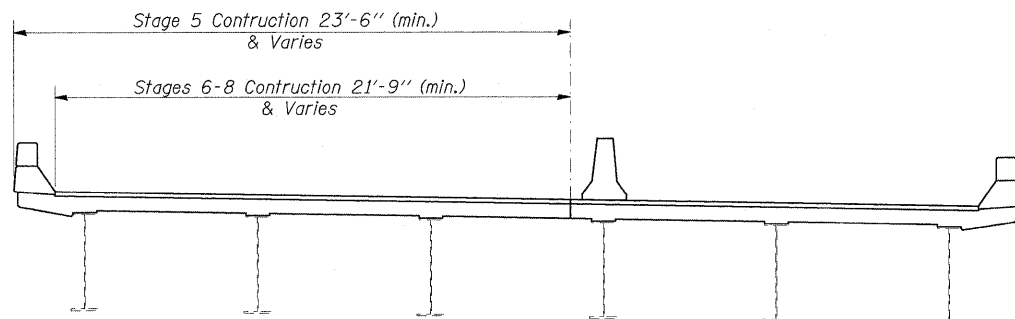
STAGE I REMOVAL



STAGES 1-4 CONSTRUCTION



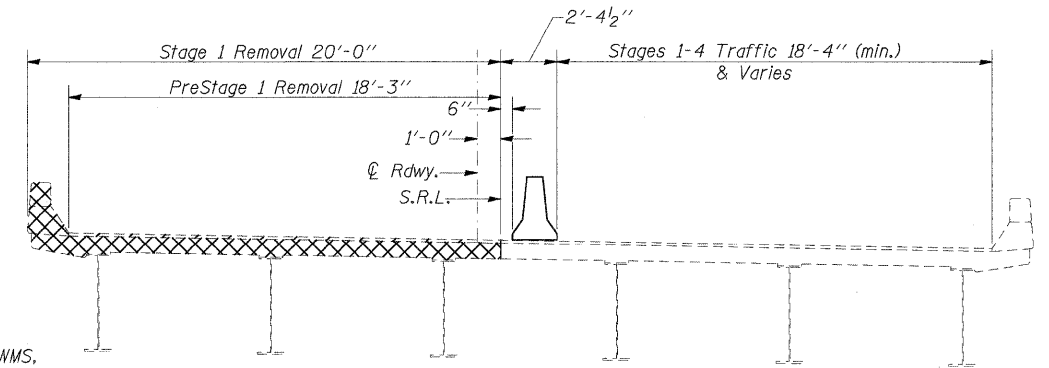
STAGE 5 REMOVAL



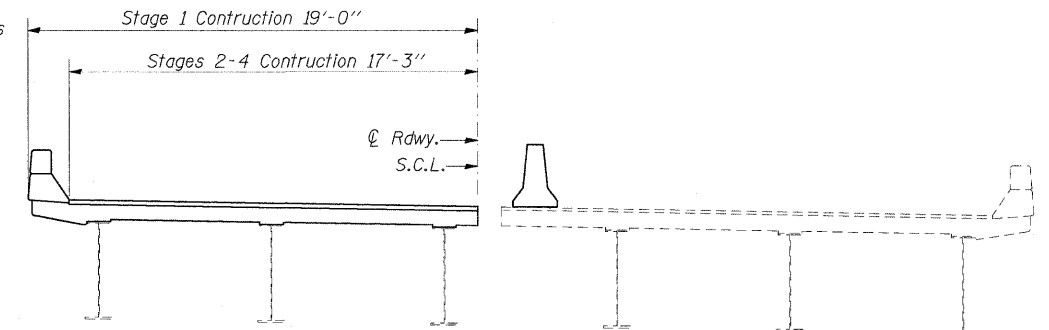
STAGES 5-8 CONSTRUCTION

SUGGESTED SEQUENCE OF CONSTRUCTION

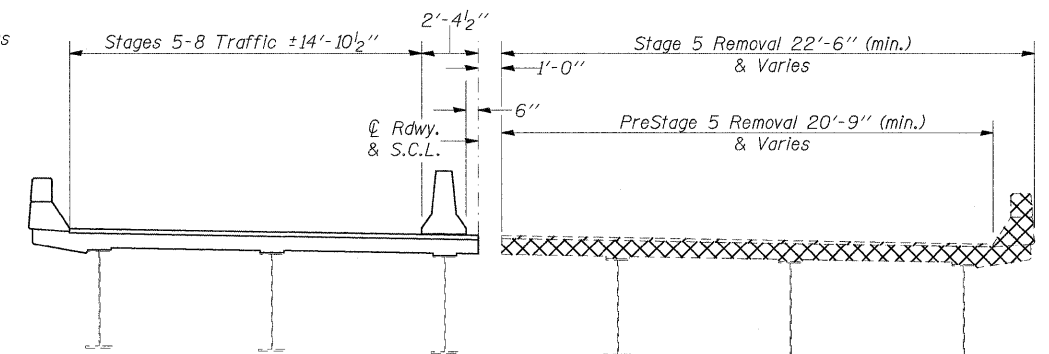
- Pre-Stage 1 Removal: Remove the existing 2" HMA surface/WMS, using T.C.&P. Standard 701401.
- Stage 1 Removal: Setup T.C.&P. Standard 701402 as shown on sheet 4 for the North Abut., South Abut., and Pier 16. Perform Concrete Removal etc. as specified on the joint detail sheets.
- Stage 1 Construction: Construct new Strip Seal Joints etc. as specified at North Abut., South Abut., and Pier 16.
- Stage 2 Construction: Setup T.C.&P. 701402 as shown on sheet 5, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".
- Stage 3 Construction: Setup (Relocate) T.C.&P. 701402 as shown on sheet 6, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".
- Stage 4 Construction: Setup (Relocate) T.C.&P. 701402 as shown on sheet 7, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".
- Pre-Stage 5 Removal: Remove the existing 2" HMA surface/WMS, using T.C.&P. Standard 701401.
- Stage 5 Removal: Setup T.C.&P. Standard 701402 as shown on sheet 8 for the North Abut., South Abut., and Pier 16. Perform Concrete Removal etc. as specified on the joint detail sheets.
- Stage 5 Construction: Construct new Strip Seal Joints etc. as specified at North Abut., South Abut., and Pier 16.
- Stage 6 Construction: Setup T.C.&P. 701402 as shown on sheet 9, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".
- Stage 7 Construction: Setup (Relocate) T.C.&P. 701402 as shown on sheet 10, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".
- Stage 8 Construction: Setup (Relocate) T.C.&P. 701402 as shown on sheet 11, Hydroscarify 1/2" and construct Microsilica Concrete Overlay 2 1/2".



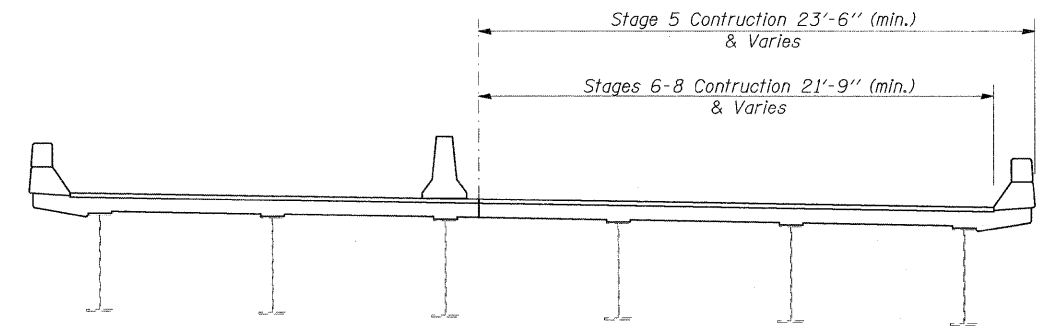
STAGE I REMOVAL



STAGES 1-4 CONSTRUCTION

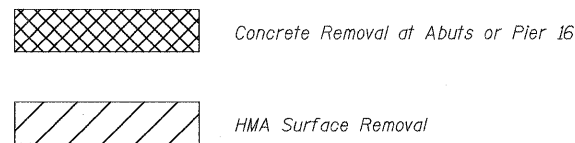


STAGE 5 REMOVAL



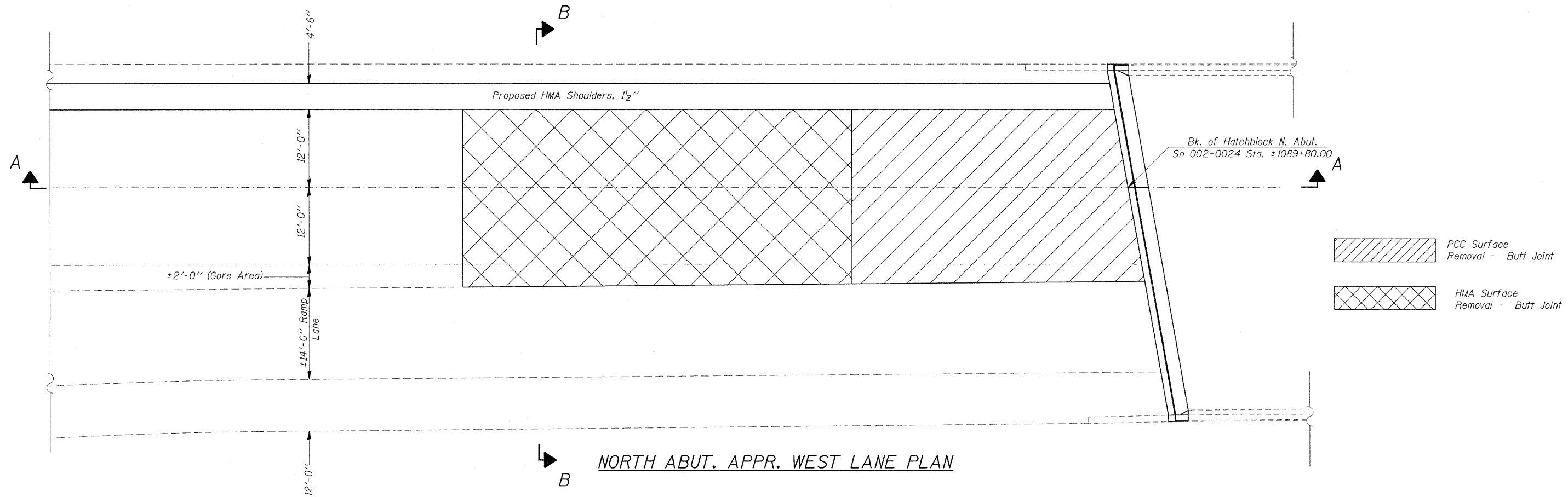
STAGES 5-8 CONSTRUCTION

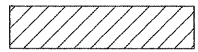

**STAGE CONSTRUCTION
ALEXANDER COUNTY
S.N. 002-0023 & 002-0024**



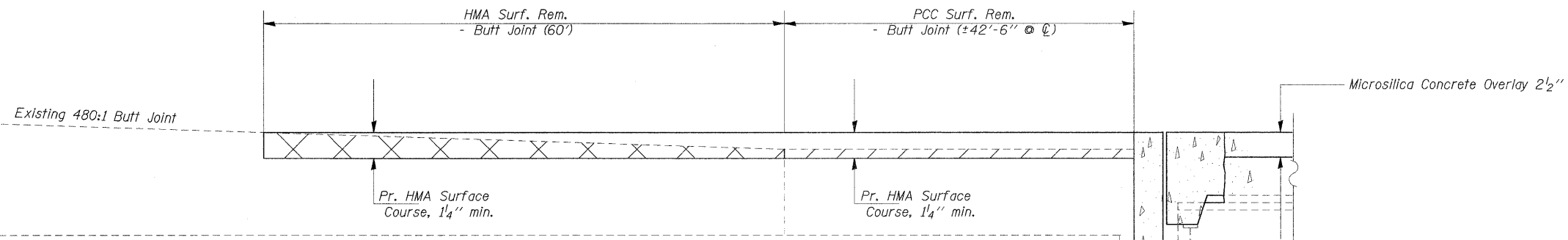
NOTES:
If the contractor chooses to modify the Suggested Sequence of Construction, the contractor shall submit a revised sequence of construction and traffic control layout details for review and acceptance by the Engineer. All Sections looking South.

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION SN 002-0023 & 002-0024	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 4/3/2009		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

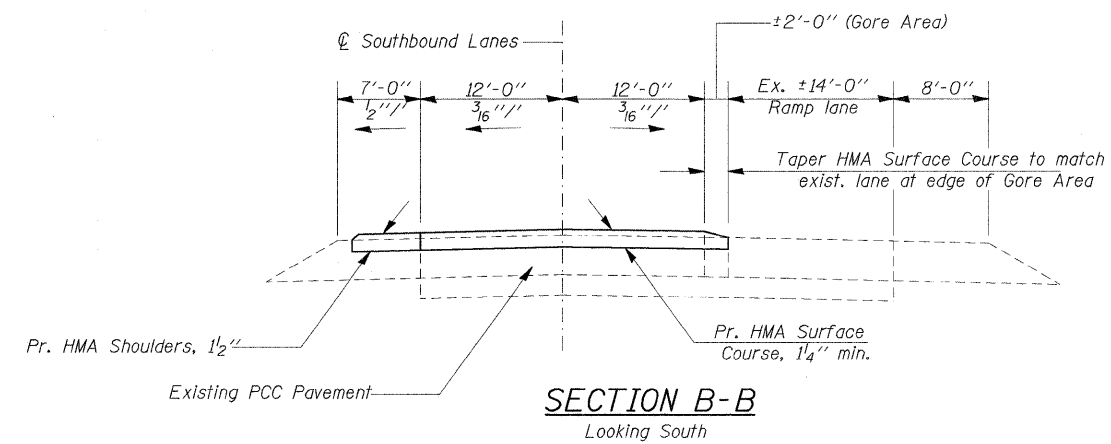


 PCC Surface Removal - Butt Joint
 HMA Surface Removal - Butt Joint

NORTH ABUT. APPR. WEST LANE PLAN



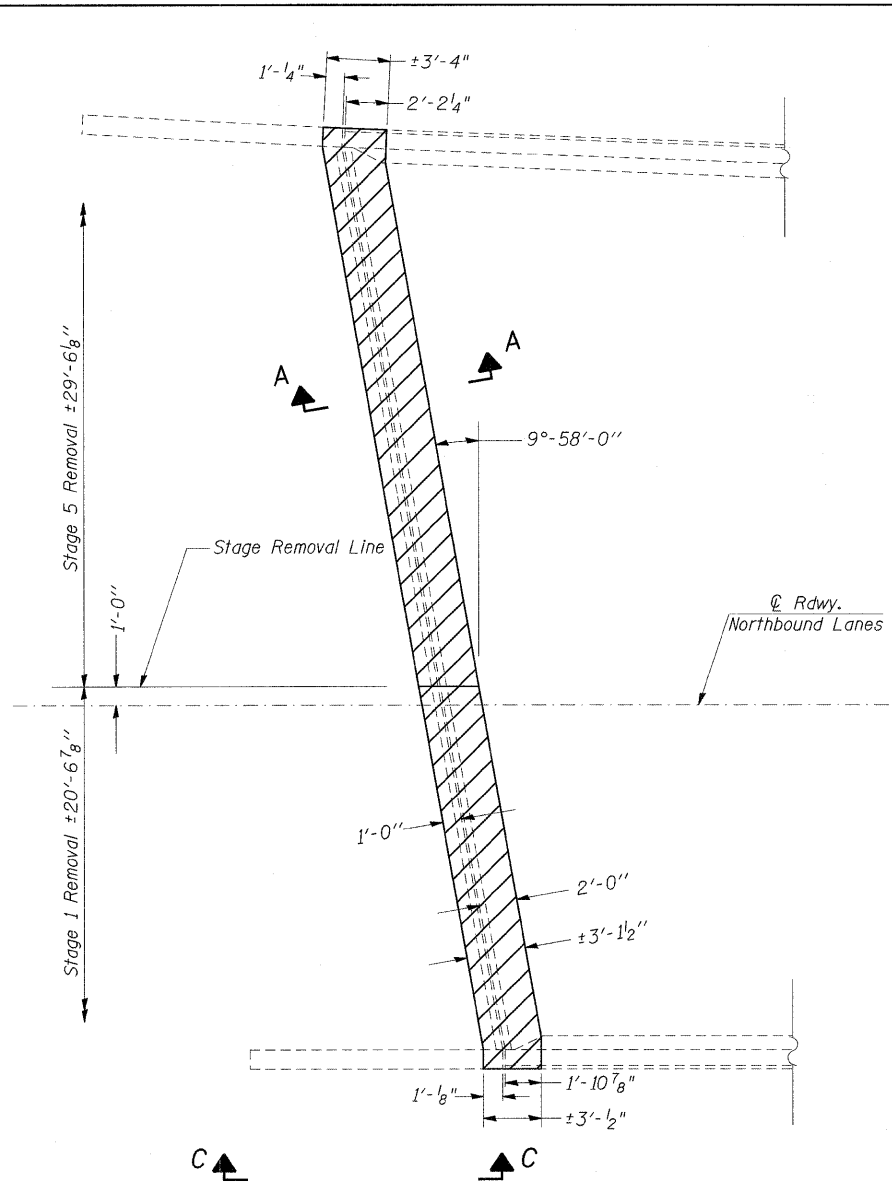
SECTION A-A



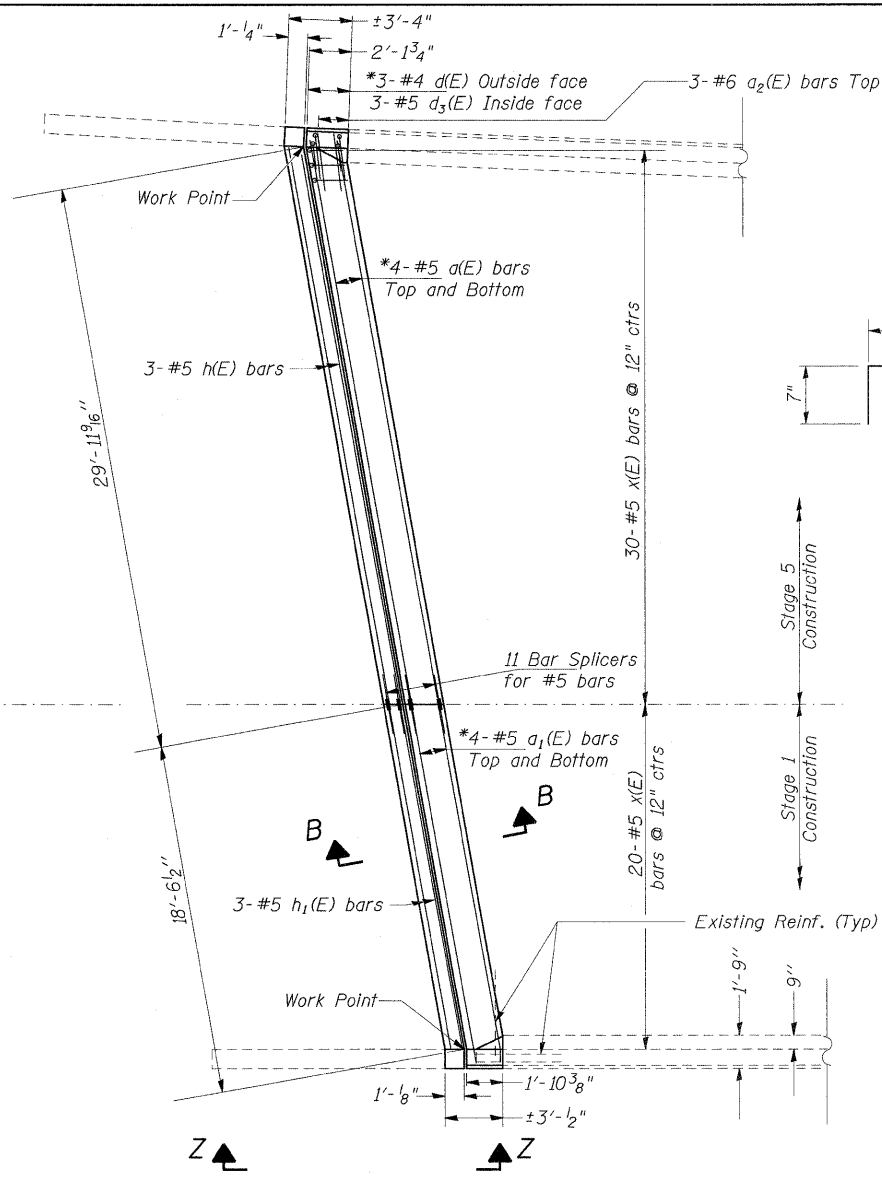
SECTION B-B
Looking South

BUTT JOINT DETAILS
ALEXANDER COUNTY
SN 002-0024

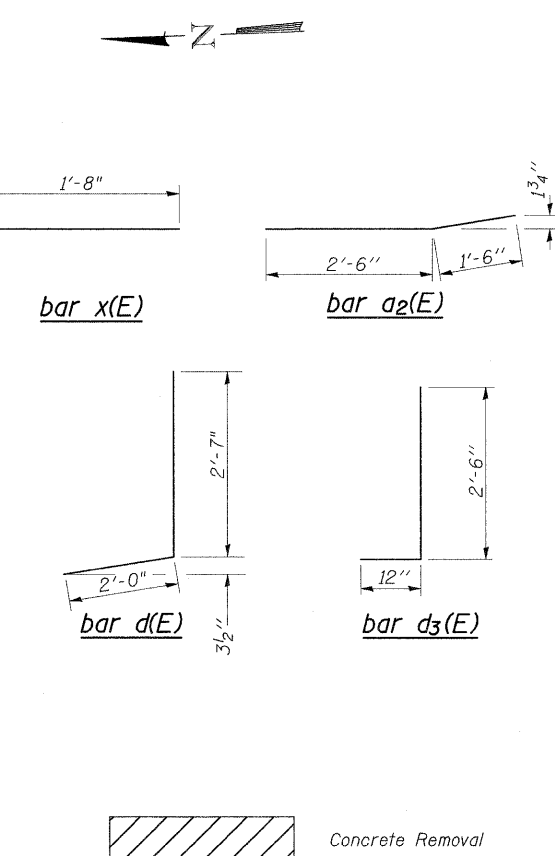
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PLOT DATE = 4/3/2009		DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



**NORTH ABUT. PLAN
SHOWING CONCRETE REMOVAL**

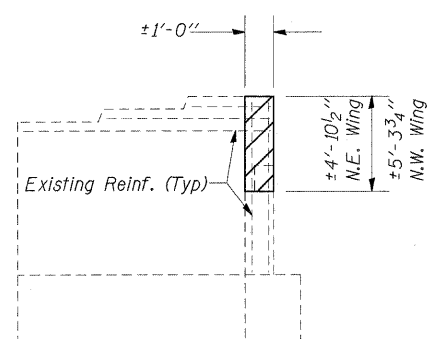


**NORTH ABUT. PLAN
SHOWING NEW CONCRETE**

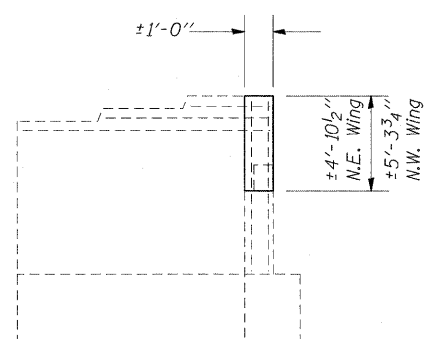


SECTION A-A
Dimensions measured @ Right Angles

SECTION B-B
Dimensions measured @ Right Angles

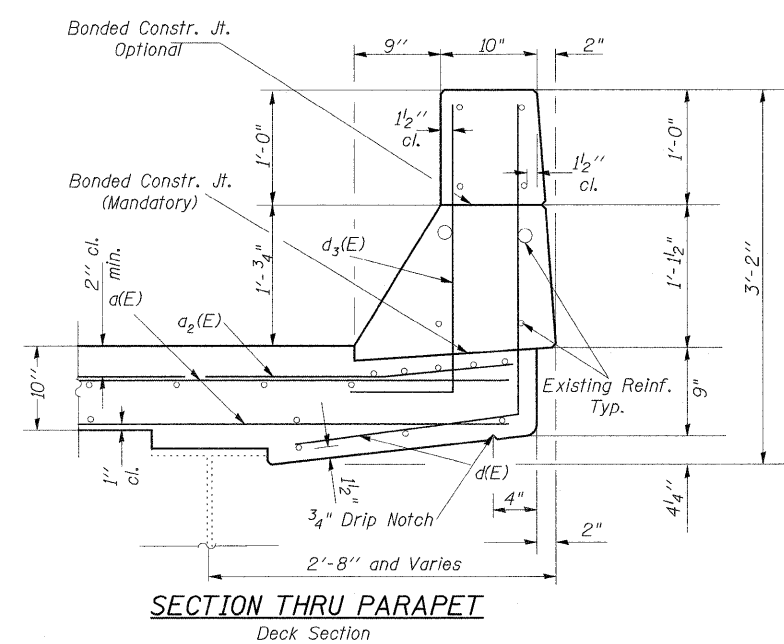


VIEW C-C
Showing Concrete Removal



VIEW Z-Z
Showing Concrete Superstructures

Notes:
 * Bend Bars in Field to fit.
 Dimensions are based on a Rolled Rail Strip Seal Joint.
 If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.

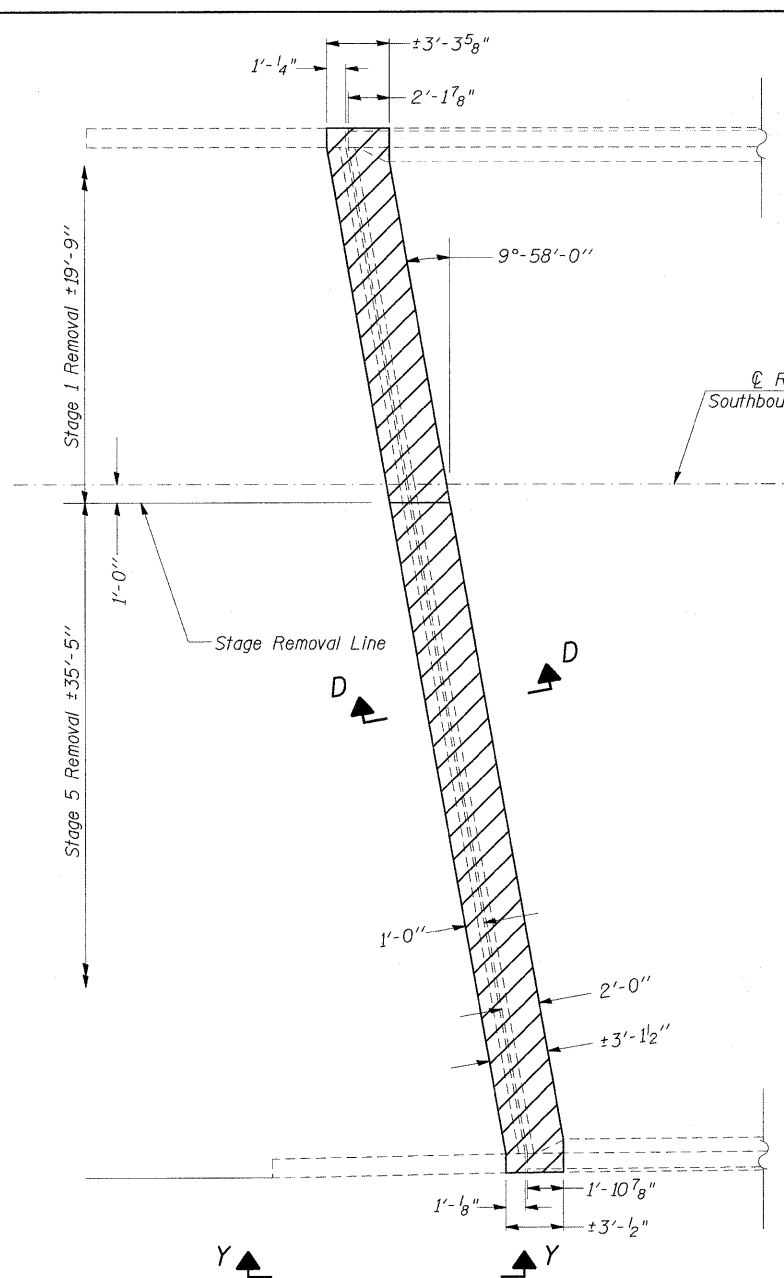


SECTION THRU PARAPET
Deck Section

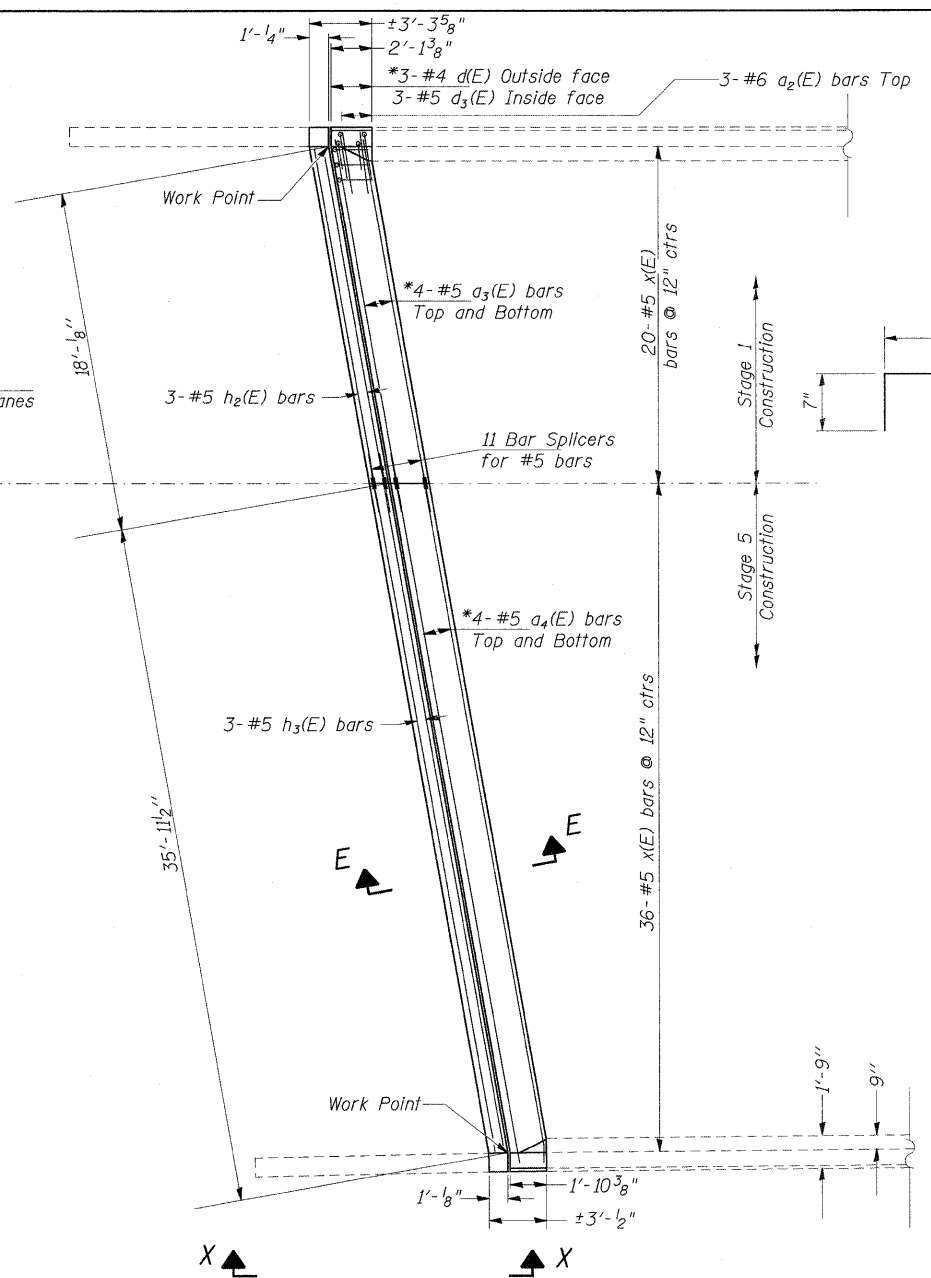
BILL OF MATERIAL

Bar No.	Size	Length	Shape
a(E)	#5	30'-2"	—
a1(E)	#5	18'-9"	—
a2(E)	#6	4'-0"	—
d(E)	#4	4'-7"	┘
d3(E)	#5	3'-6"	┘
h(E)	#5	29'-8"	—
h1(E)	#5	18'-3"	—
x(E)	#5	2'-3"	┘
Concrete Superstructure			Cu. Yd. 8.2
Concrete Removal			Cu. Yd. 7.6
Reinforcement Bars, Epoxy Coated			Pound 750

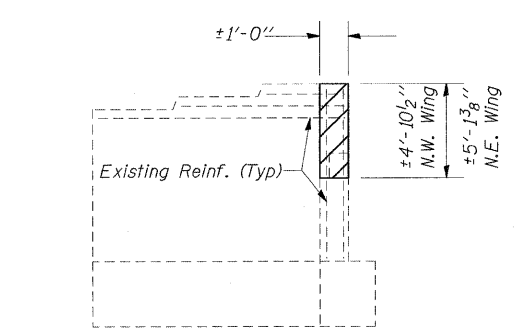
**NORTH ABUT.
JOINT REPLACEMENT DETAILS
ALEXANDER COUNTY
SN 002-0023**



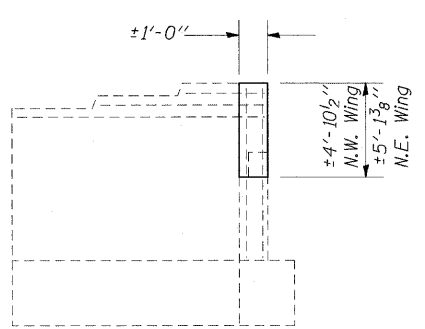
**NORTH ABUT. PLAN
SHOWING CONCRETE REMOVAL**



**NORTH ABUT. PLAN
SHOWING NEW CONCRETE**

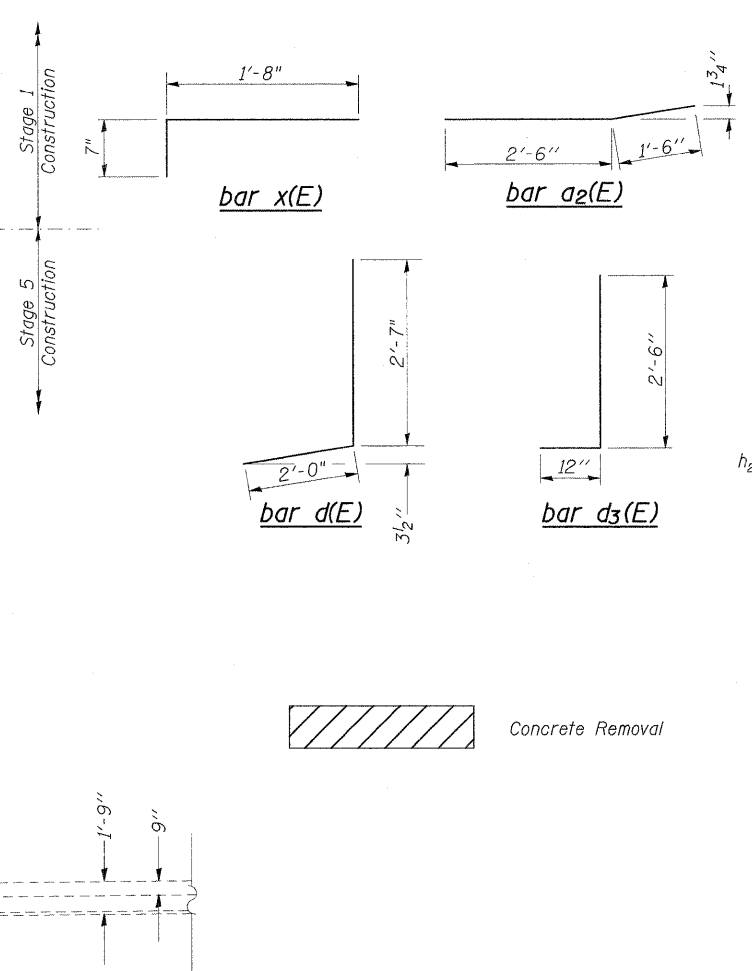
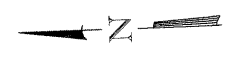


**VIEW Y-Y
Showing Concrete
Removal**

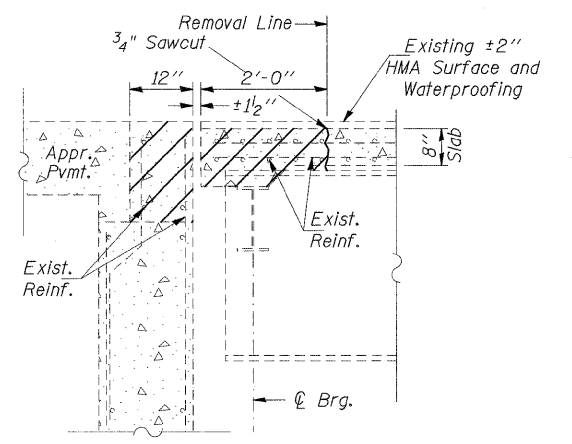


**VIEW X-X
Showing Concrete
Superstructures**

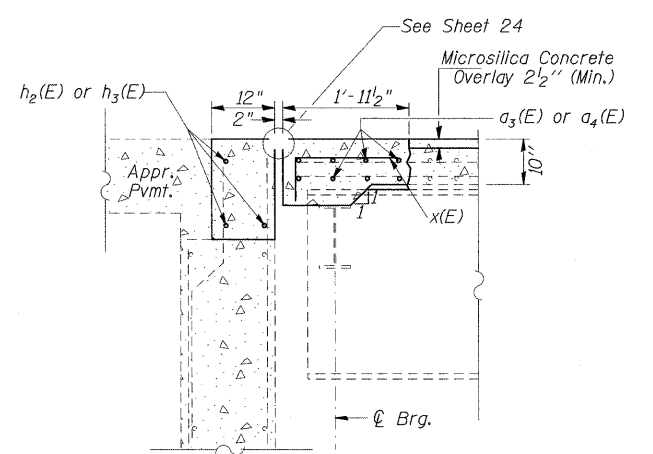
Notes:
 * Bend Bars in Field to fit.
 Dimensions are based on a Rolled Rail Strip Seal Joint.
 If the Contractor elects to use the Welded Rail Strip
 Seal Joint, deck dimensions may require adjustments
 to satisfy the details on Base Sheet EJ-SSJ.



**SECTION THRU PARAPET
Deck Section**



**SECTION D-D
Dimensions measured at
Right Angles**

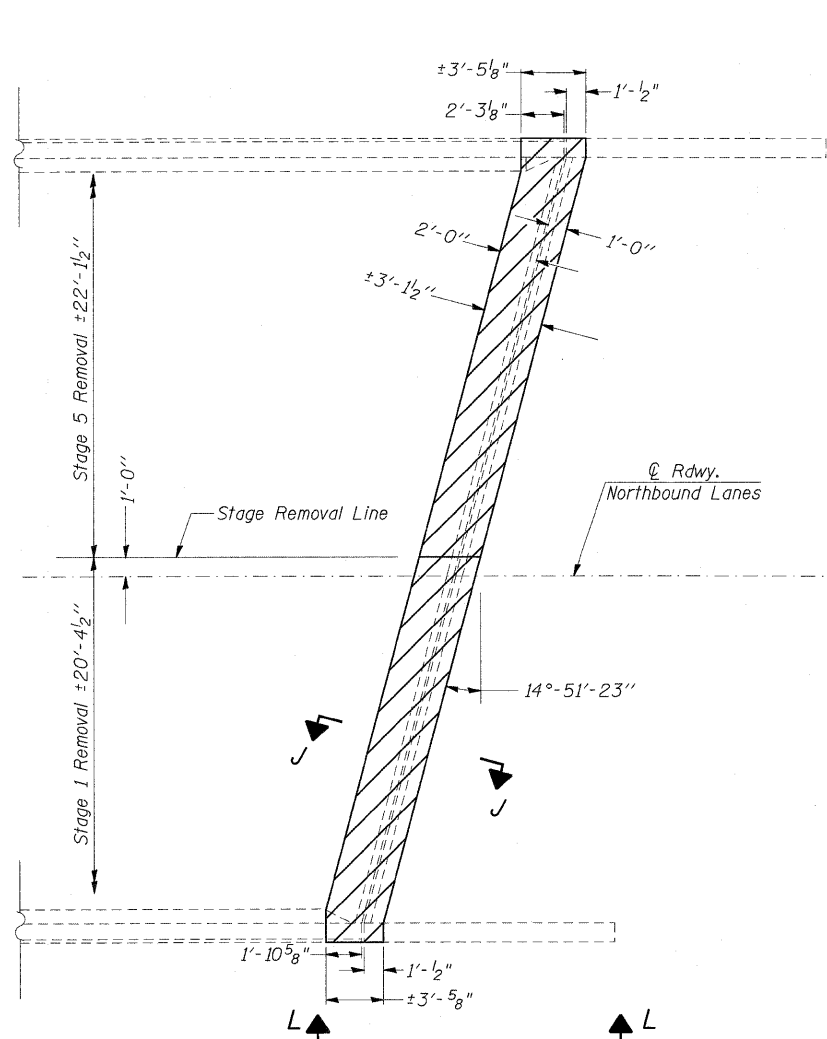


**SECTION E-E
Dimensions measured at
Right Angles**

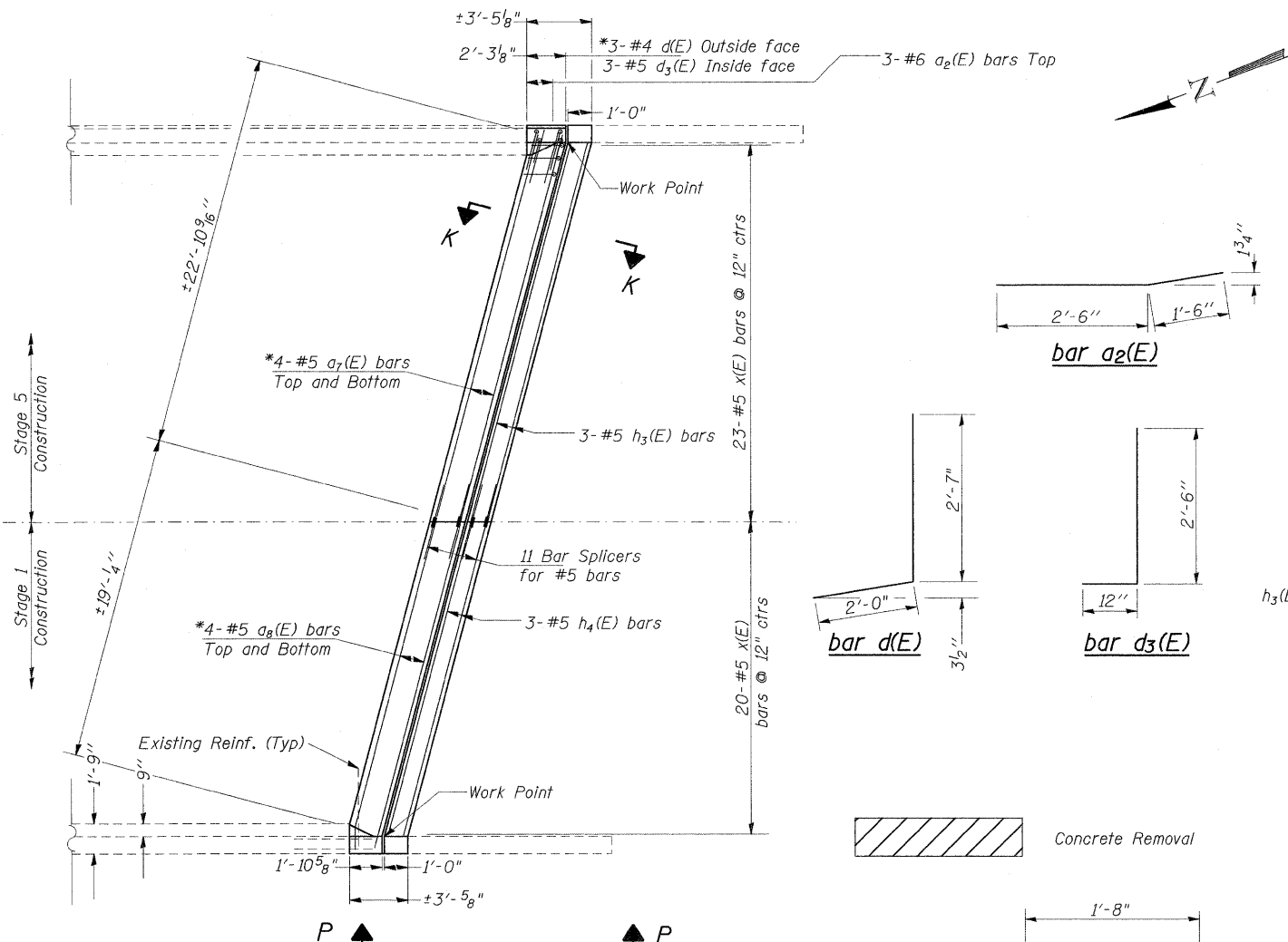
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	6	#6	4'-0"	—
a3(E)	8	#5	18'-2"	—
a4(E)	8	#5	36'-2"	—
d(E)	6	#4	4'-7"	┘
d3(E)	6	#5	3'-6"	┘
h2(E)	3	#5	17'-8"	—
h3(E)	3	#5	35'-8"	—
x(E)	56	#5	2'-3"	┘
Concrete Superstructure		Cu. Yd.	9.0	
Concrete Removal		Cu. Yd.	8.3	
Reinforcement Bars, Epoxy Coated		Pound	960	

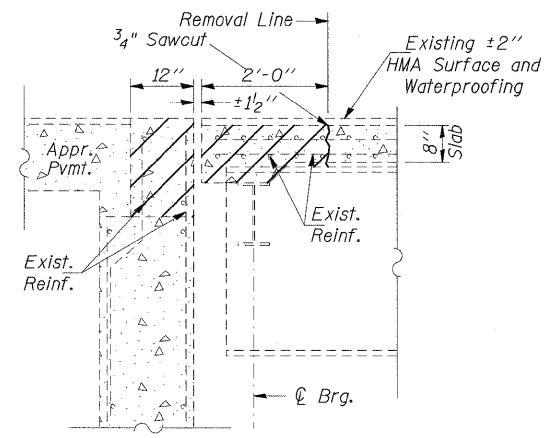
**NORTH ABUT.
JOINT REPLACEMENT DETAILS
ALEXANDER COUNTY
SN 002-0024**



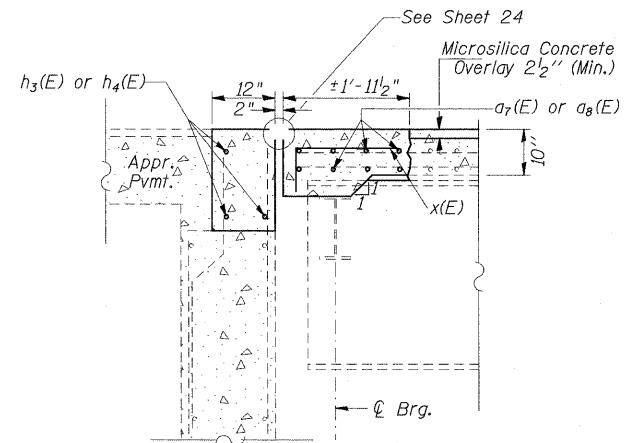
**SOUTH ABUT. PLAN
SHOWING CONCRETE REMOVAL**



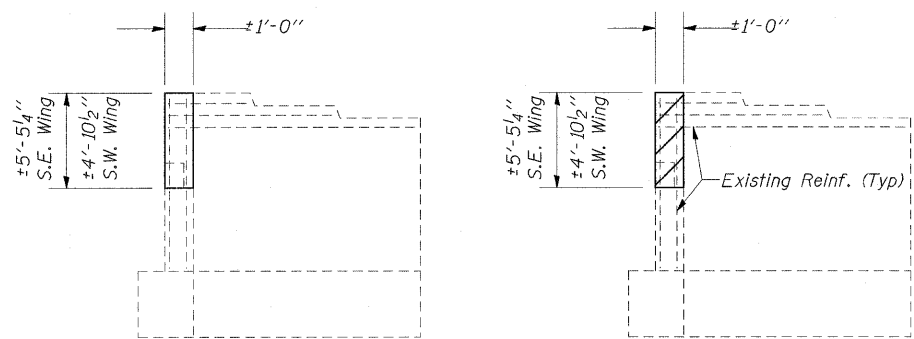
**SOUTH ABUT. PLAN
SHOWING NEW CONCRETE**



SECTION J-J
Dimensions measured @ Right Angles

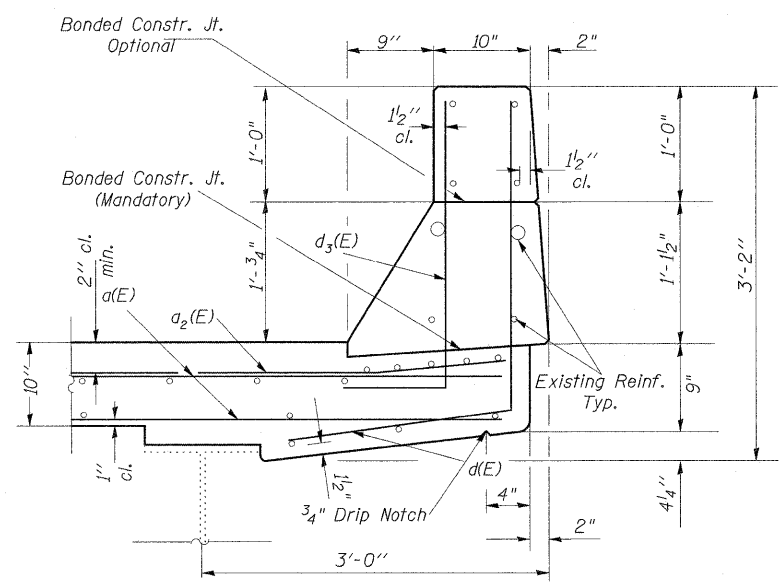


SECTION K-K
Dimensions measured @ Right Angles



VIEW L-L
Showing Concrete Removal

VIEW P-P
Showing Concrete Superstructures



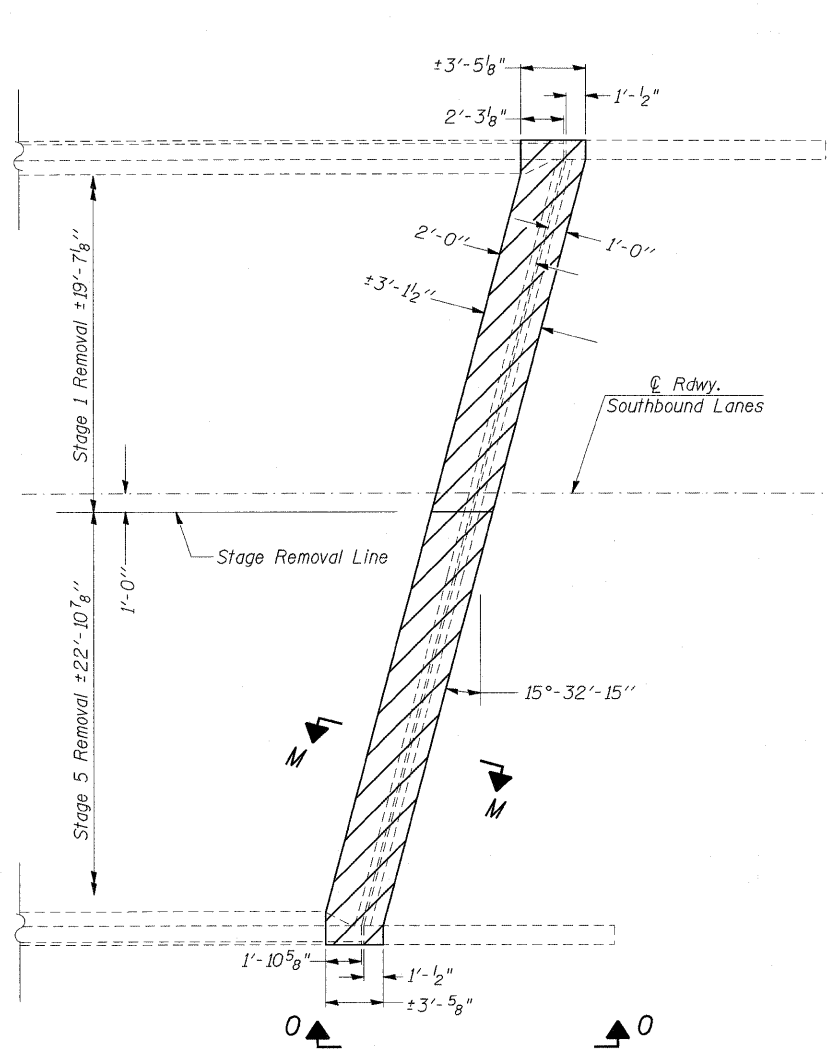
SECTION THRU PARAPET
Deck Section

BILL OF MATERIAL

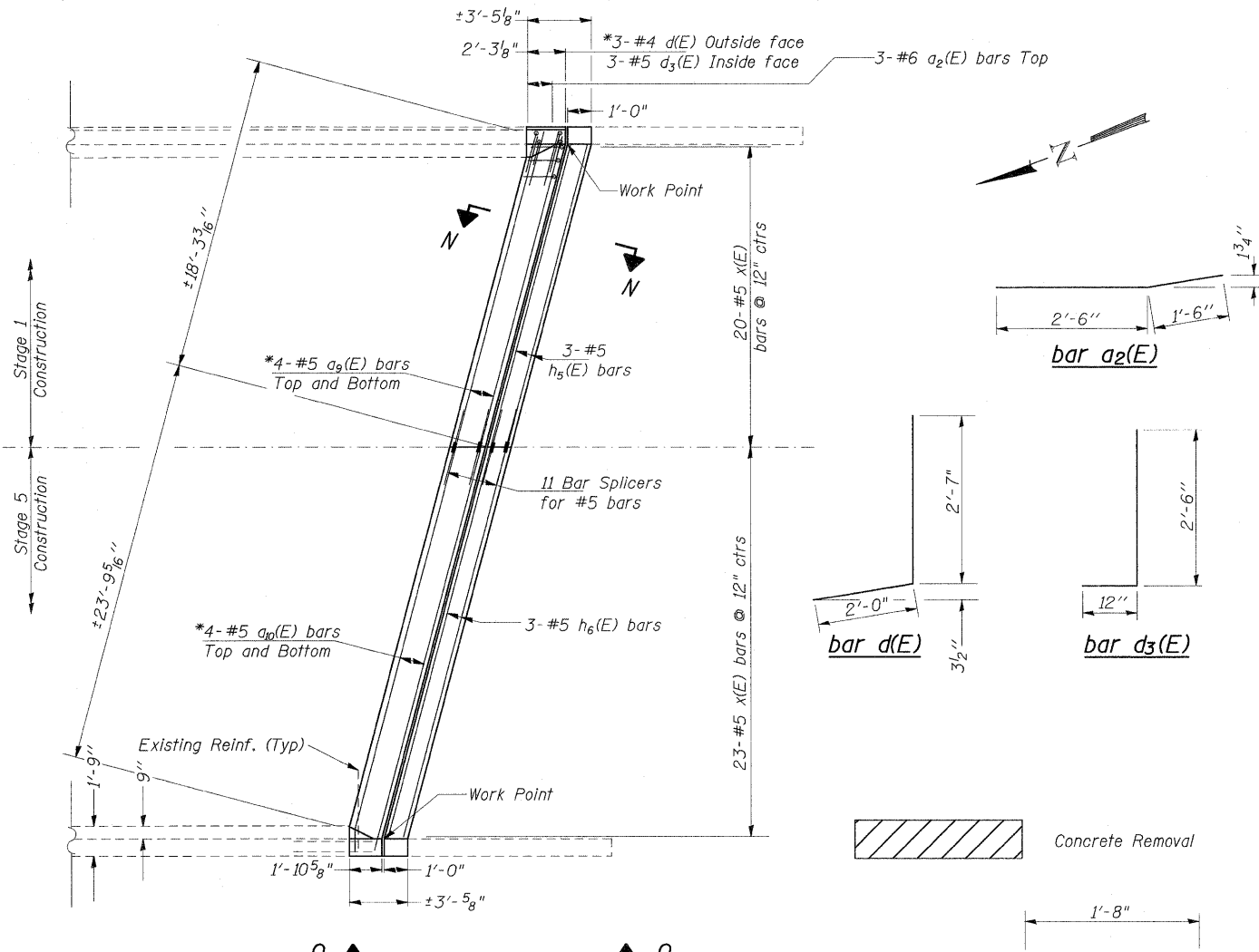
Bar	No.	Size	Length	Shape
a2(E)	6	#6	4'-0"	—
a7(E)	8	#5	23'-0"	—
a8(E)	8	#5	19'-2"	—
d(E)	6	#4	4'-7"	J
d3(E)	6	#5	3'-6"	J
h3(E)	3	#5	22'-8"	—
h4(E)	3	#5	18'-8"	—
x(E)	43	#5	2'-3"	—
Concrete Superstructure		Cu. Yd.	7.4	
Concrete Removal		Cu. Yd.	6.9	
Reinforcement Bars, Epoxy Coated		Pound	660	

Notes:
 * Bend Bars in Field to fit.
 Dimensions are based on a Rolled Rail Strip Seal Joint.
 If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.

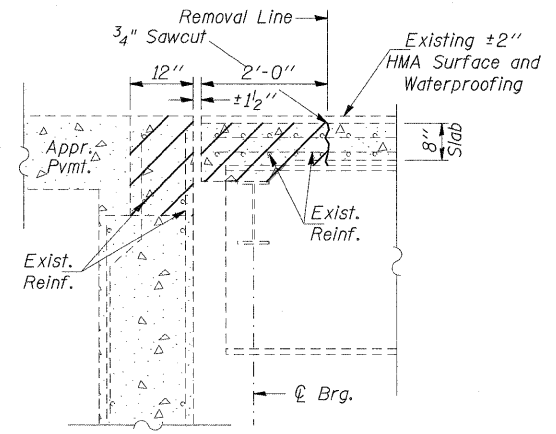
**SOUTH ABUT.
JOINT REPLACEMENT DETAILS
ALEXANDER COUNTY
SN 002-0023**



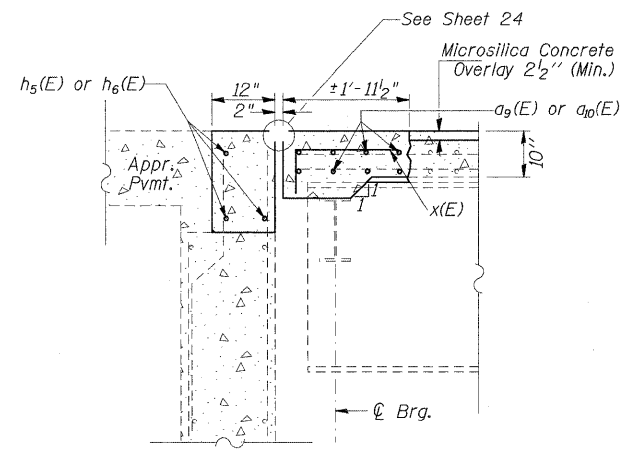
**SOUTH ABUT. PLAN
SHOWING CONCRETE REMOVAL**



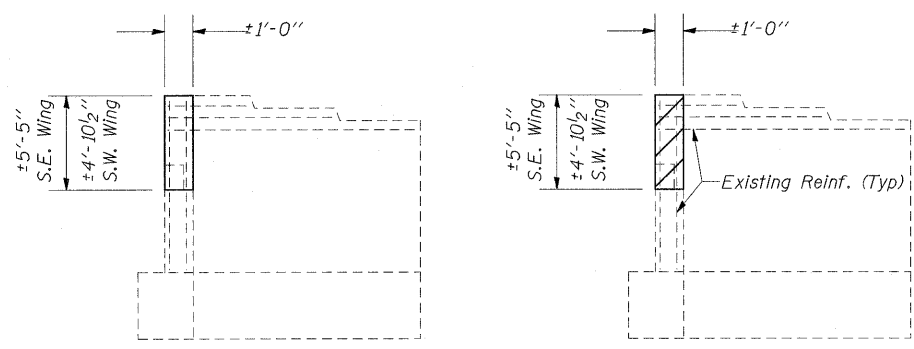
**SOUTH ABUT. PLAN
SHOWING NEW CONCRETE**



SECTION M-M
Dimensions measured @ Right Angles

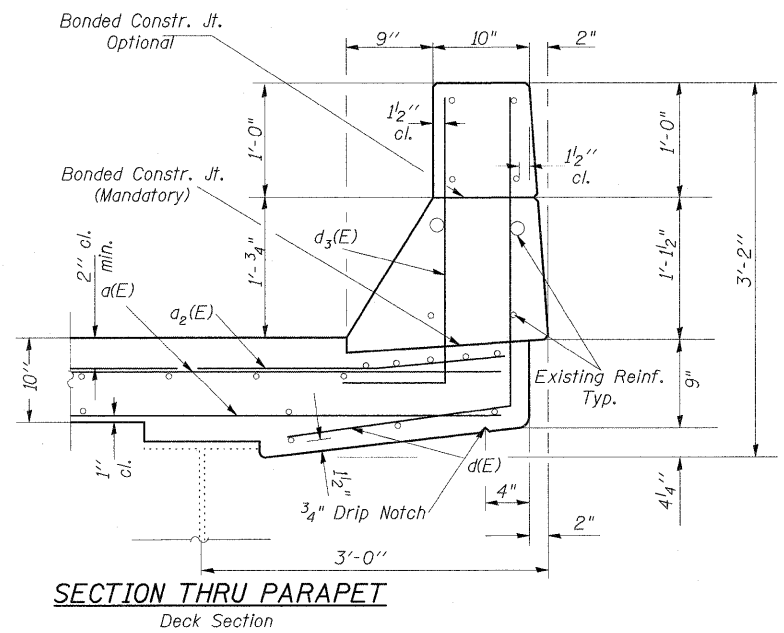


SECTION N-N
Dimensions measured @ Right Angles



VIEW O-O
Showing Concrete Removal

VIEW Q-Q
Showing Concrete Superstructures



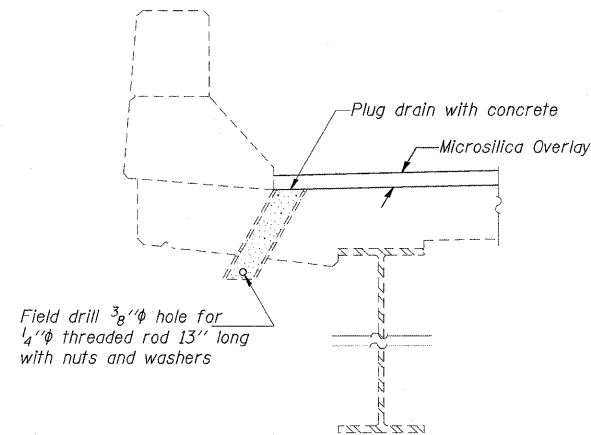
SECTION THRU PARAPET
Deck Section

BILL OF MATERIAL

Bar No.	Size	Length	Shape
a2(E)	#6	4'-0"	—
a9(E)	#5	18'-6"	—
a10(E)	#5	24'-0"	—
d(E)	#4	4'-7"	J
d3(E)	#5	3'-6"	J
h5(E)	#5	18'-2"	—
h6(E)	#5	23'-8"	—
x(E)	#5	2'-3"	—
Concrete Superstructure			Cu. Yd. 7.4
Concrete Removal			Cu. Yd. 6.9
Reinforcement Bars, Epoxy Coated			Pound 660

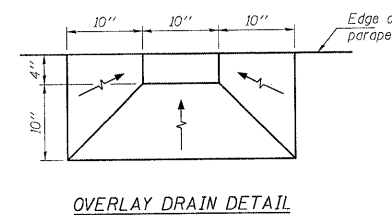
Notes:
 * Bend Bars in Field to fit.
 Dimensions are based on a Rolled Rail Strip Seal Joint.
 If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet E-J-SSJ.

**SOUTH ABUT.
JOINT REPLACEMENT DETAILS
ALEXANDER COUNTY
SN 002-0024**

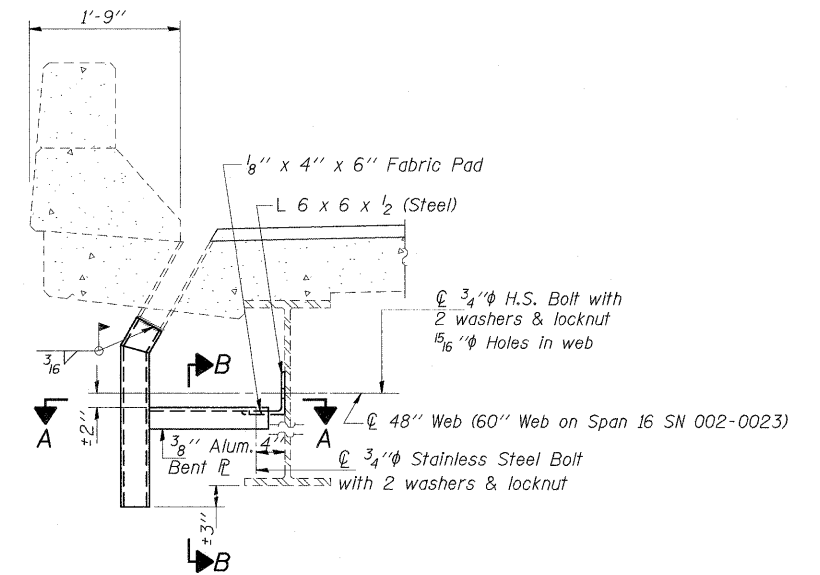


DRAIN ELIMINATION DETAIL

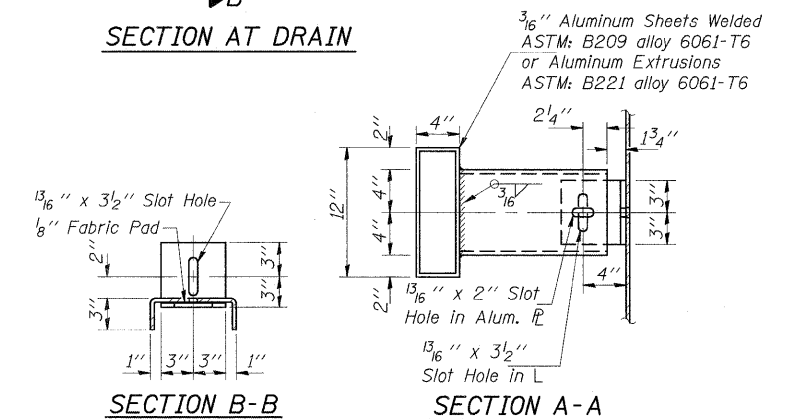
(76 Locations on SN 002-0023)
(76 Locations on SN 002-0024)



OVERLAY DRAIN DETAIL

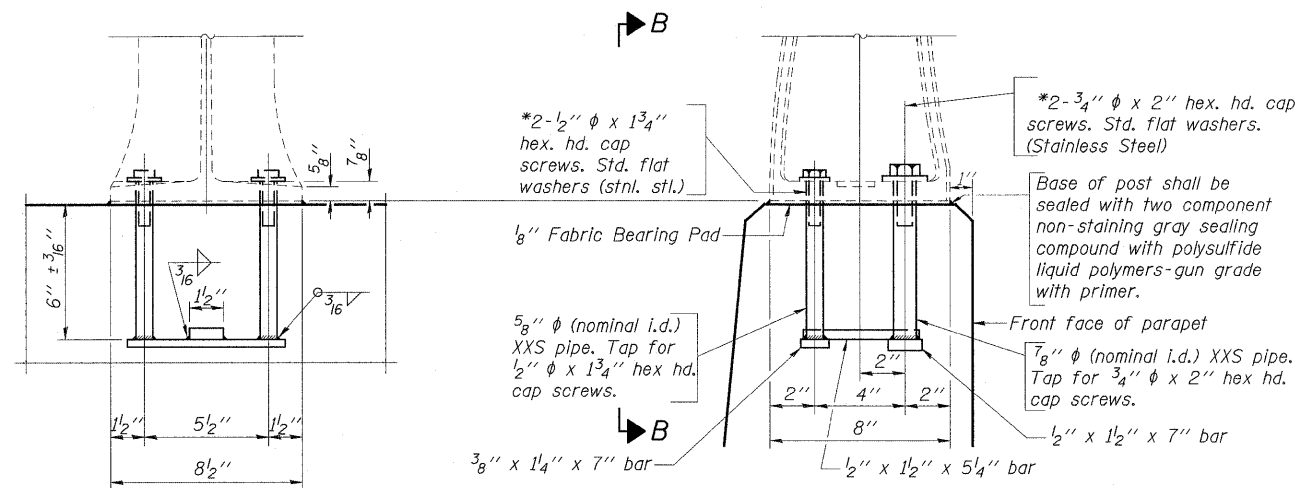


SECTION AT DRAIN



DRAIN EXTENSION DETAIL

(369 locations for 48" Web on SN 002-0023)
(14 locations for 60" Web on SN 002-0023)
(375 locations for 48" Web on SN 002-0024)



VIEW B-B

RAIL POST DETAILS

16 Locations

Notes:

Plug all existing floor drains that are within ±10' of the existing substructure. Locations shall be subject to approved by the Engineer.

Post shall be normal to parapet.

*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

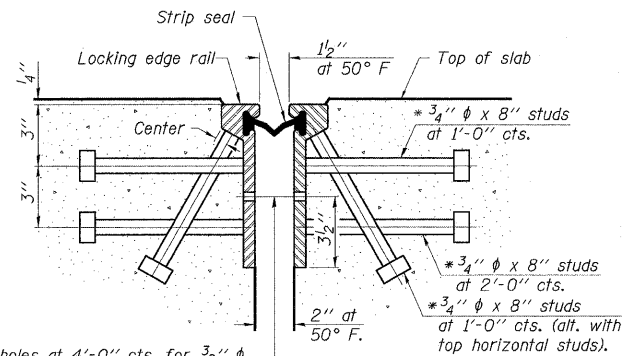
Removal and and re-erection of the existing aluminum handrail, rail post, and all new applicable hardware, including labor and installation shall be included in the cost of Concrete Removal.

**DRAINS AND RAILING
DETAILS
ALEXANDER COUNTY
SN 002-0023 & 002-0024**

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINS AND RAILING DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwid\DOT\HALSTEADTW\d0113592\002-0023.dgn		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	23	
PLOT SCALE = 1:5000 / 1" IN.		CHECKED -	REVISED -			CONTRACT NO. 78111					
PLOT DATE = 4/3/2009		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

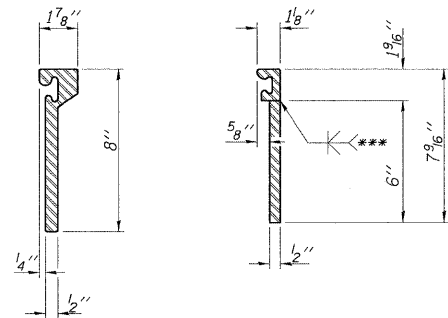
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

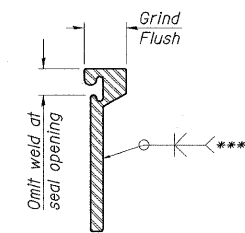


7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU
ROLLED RAIL JOINT



ROLLED
EXTRUDED RAIL WELDED RAIL

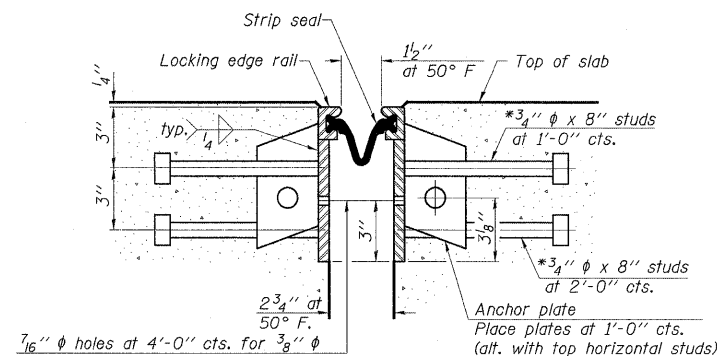


***Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE
RAIL SPLICE

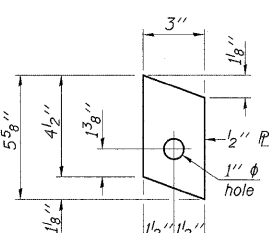
The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS

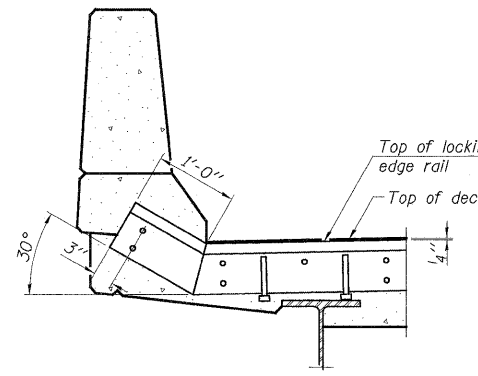


7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

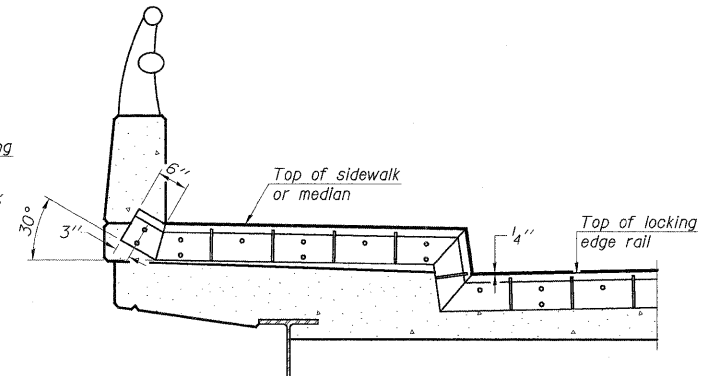
SECTION THRU
WELDED RAIL JOINT



ANCHOR PLATE
(for welded rail)



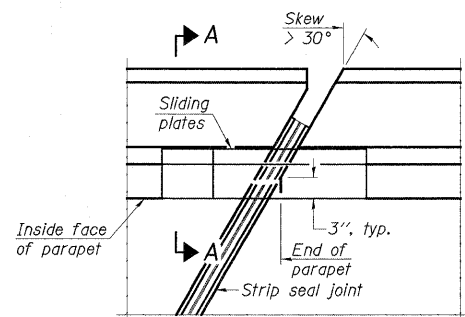
AT PARAPET



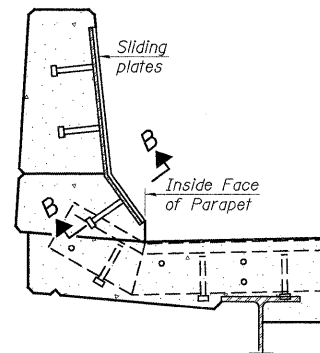
AT SIDEWALK OR MEDIAN

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

TYPICAL END TREATMENTS

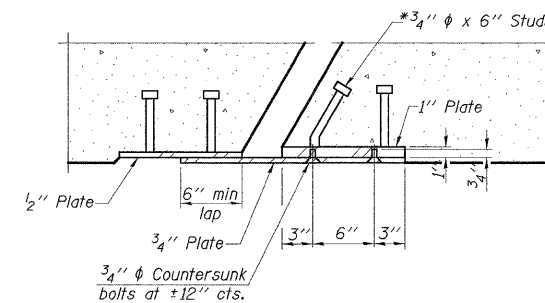


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	278

PREFORMED JOINT STRIP SEAL
DETAILS
ALEXANDER COUNTY
SN 002-0023 & 002-0024

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\pwwork\HALSTEADTW\d0113592\002-0023.dgn	DRAWN -	REVISED -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	24	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 78111					
PLOT DATE = 4/3/2009	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

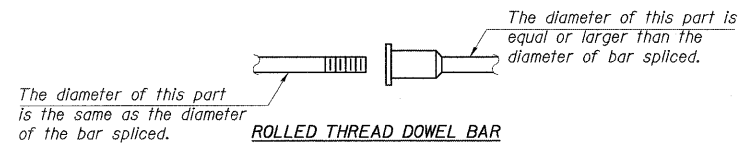
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-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

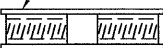


ROLLED THREAD DOWEL BAR



** ONE PIECE

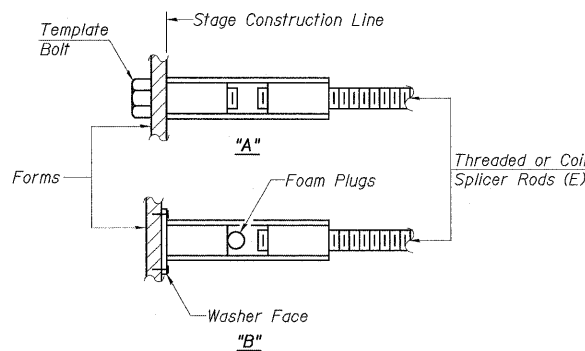
Wire Connector



WELDED SECTIONS

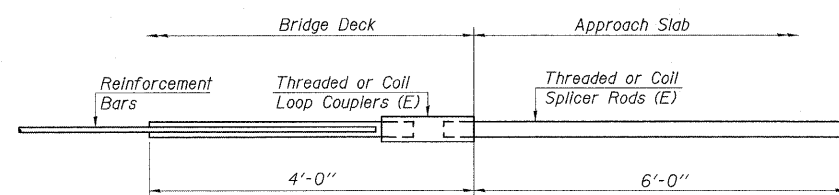
BAR SPLICER ASSEMBLY ALTERNATIVES

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



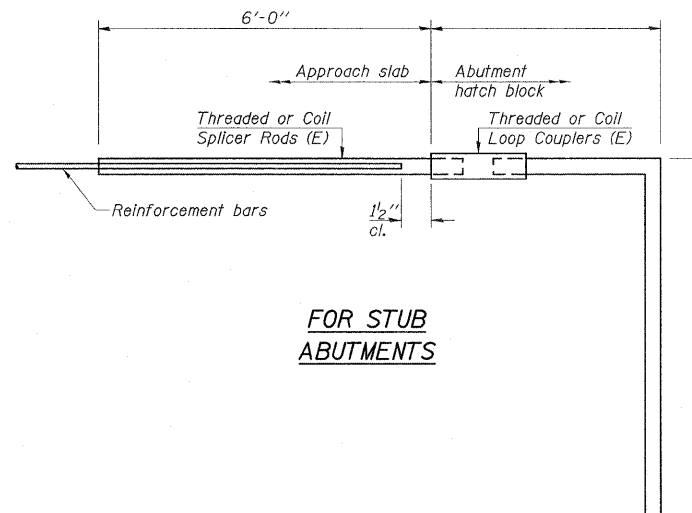
INSTALLATION AND SETTING METHODS

"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.



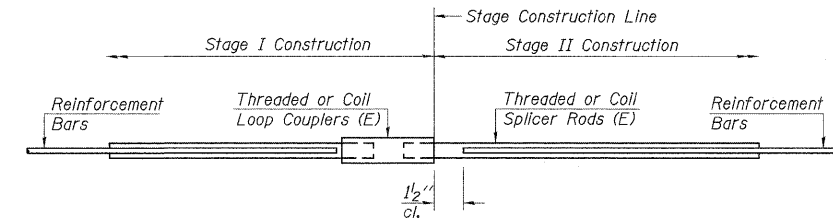
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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 =



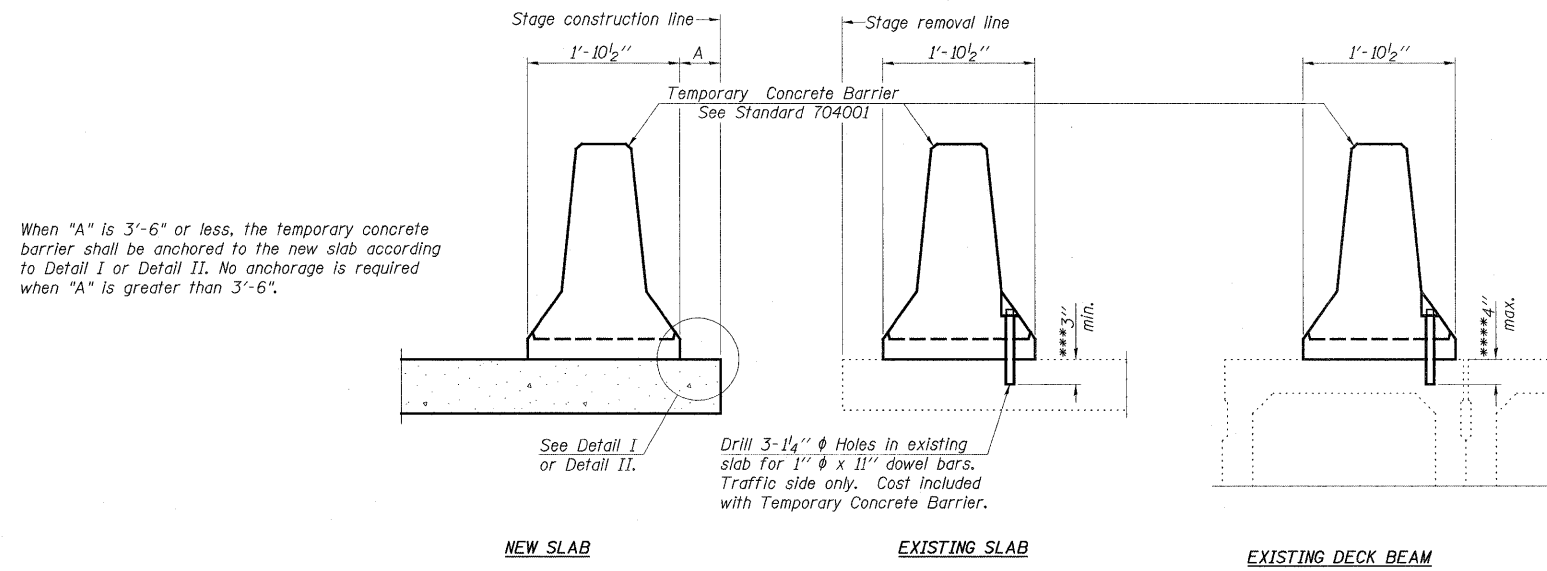
STANDARD

Bar Size	No. Assemblies Required	Location
#5	76	Deck

BSD-1 10-1-08

BAR SPLICER ASSEMBLY
DETAILS
ALEXANDER COUNTY
SN 002-0023 & 002-0024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

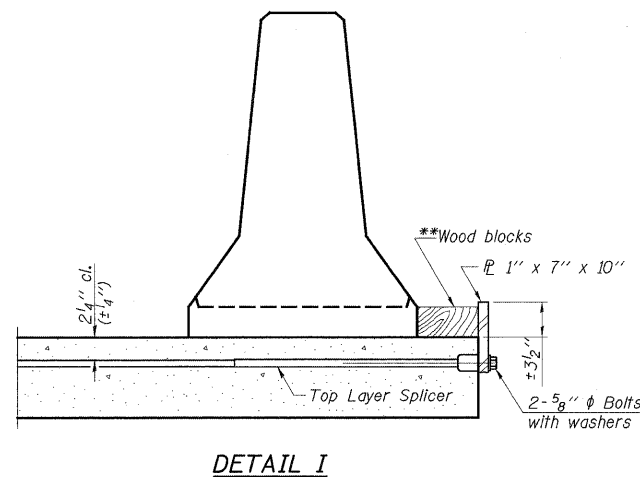
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place Inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" 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.

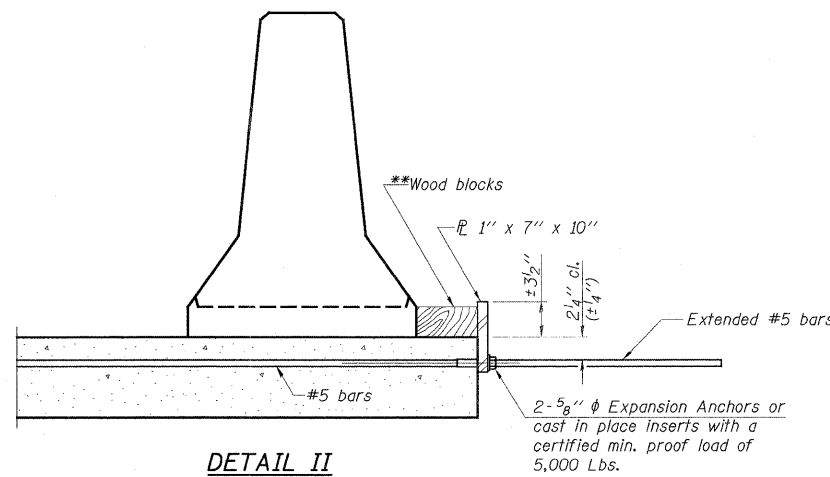
SECTIONS THRU SLAB OR DECK BEAM

*** 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.

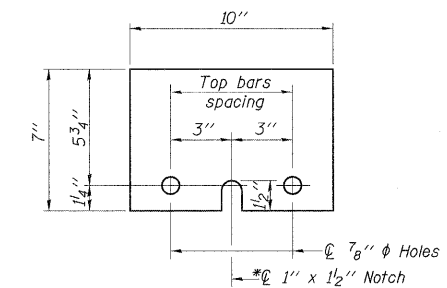
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x 10"

* Required only with Detail II

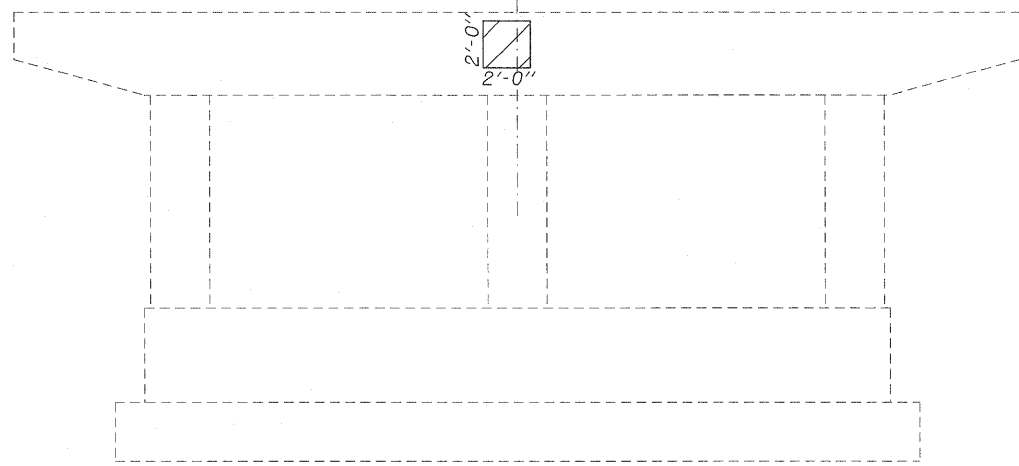
**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
ALEXANDER COUNTY
SN 002-0023 & 002-0024**

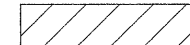
R-27 10-1-08

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
at\pw\work\PWIDOT\HALSTEADTW\d0113592\02-0023.dgn	DRAWN -	REVISOR -	57			D9 BSMART FY09-2	ALEXANDER	45	26	
PLOT SCALE = 1.0000 "/> <td>CHECKED -</td> <td>REVISOR -</td> <td colspan="3" style="text-align: center;">CONTRACT NO. 78111</td>	CHECKED -	REVISOR -	CONTRACT NO. 78111							
PLOT DATE = 4/3/2009	DATE -	REVISOR -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE:						SHEET NO.	OF SHEETS	STA.	TO STA.	

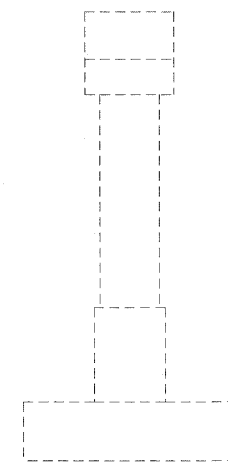
℄ Rdwy.
Northbound Lanes



PIER 3
Looking North

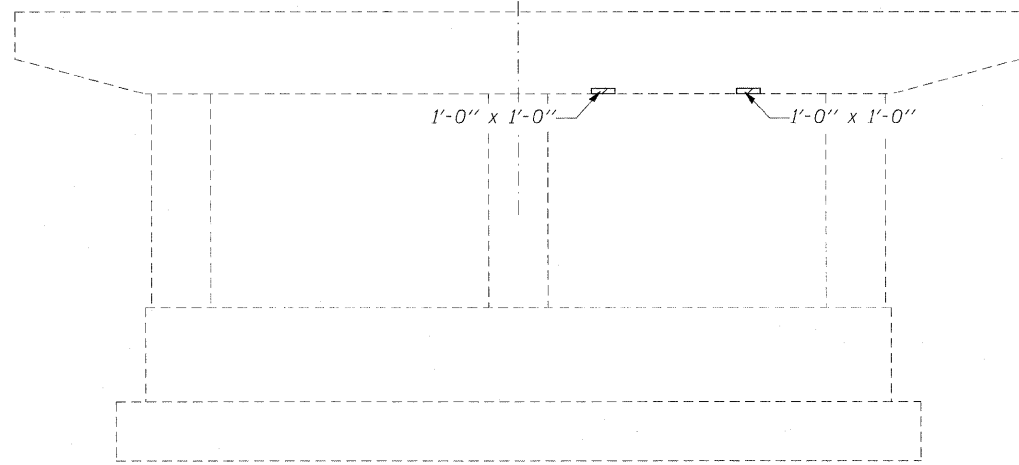


Structural Repair of Concrete ≤ 5"

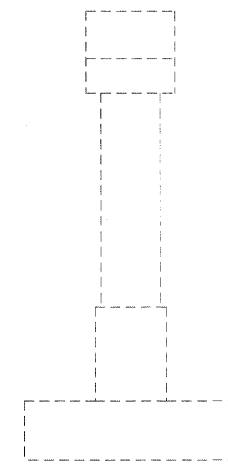


PIER 3
Looking East

℄ Rdwy.
Northbound Lanes



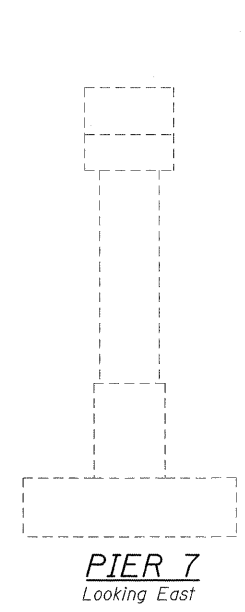
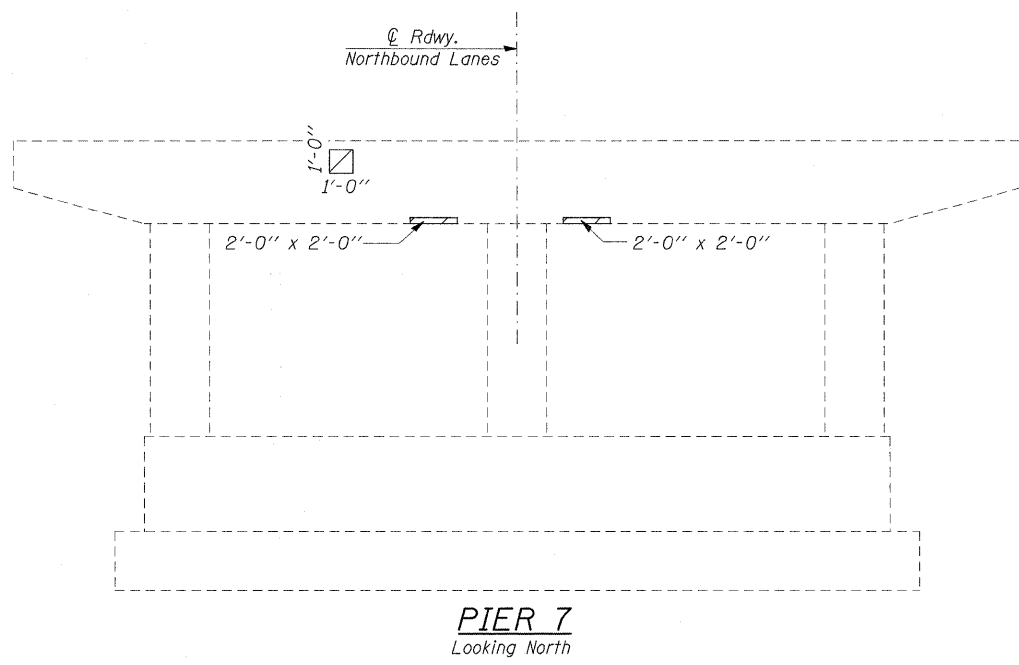
PIER 3
Looking South



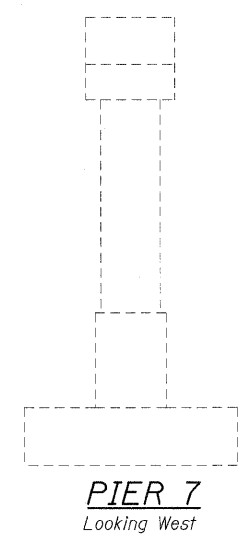
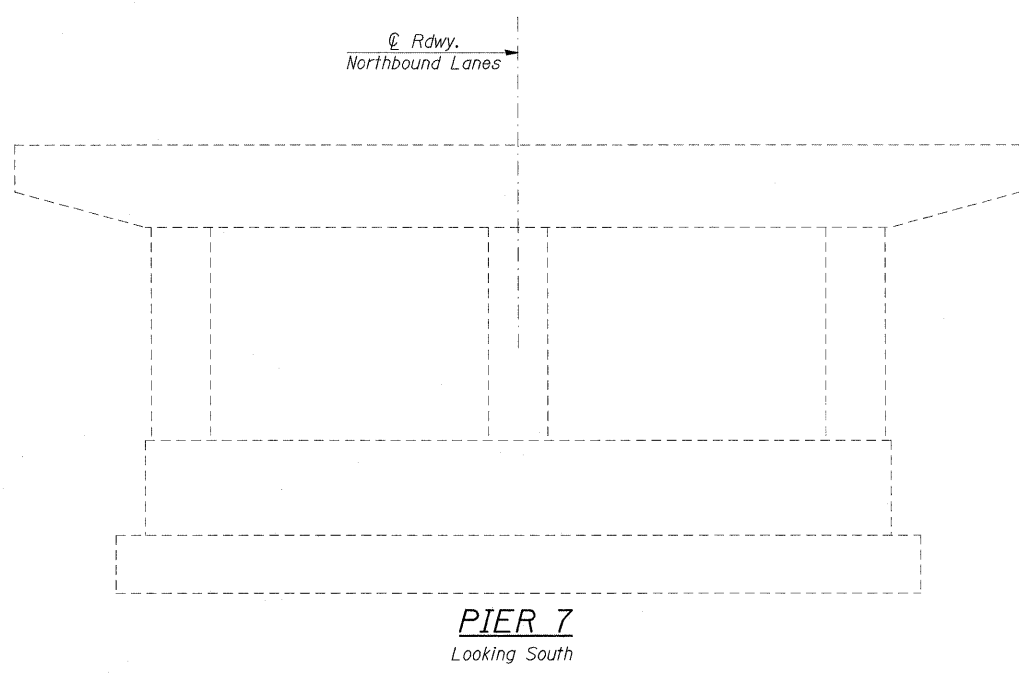
PIER 3
Looking West

SUBSTRUCTURE REPAIRS
PIER 3
ALEXANDER COUNTY
SN 002-0023

FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0023				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\PWIDOT\HALSTEADTW\d0113592\02-0023.dgn		DRAWN -	REVISED -						57	D9 BSMART FY09-2	ALEXANDER	45	27
PLOT SCALE = 4.0000 1/ IN.		CHECKED -	REVISED -		CONTRACT NO. 78111				ILLINOIS FED. AID PROJECT				
PLOT DATE = 4/3/2009		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS			STA.	TO STA.	

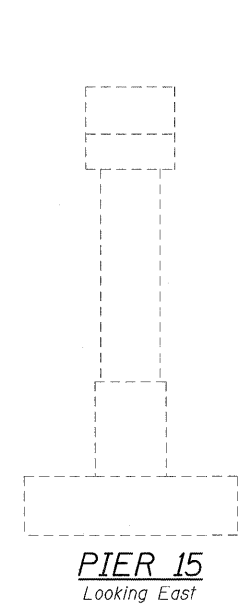
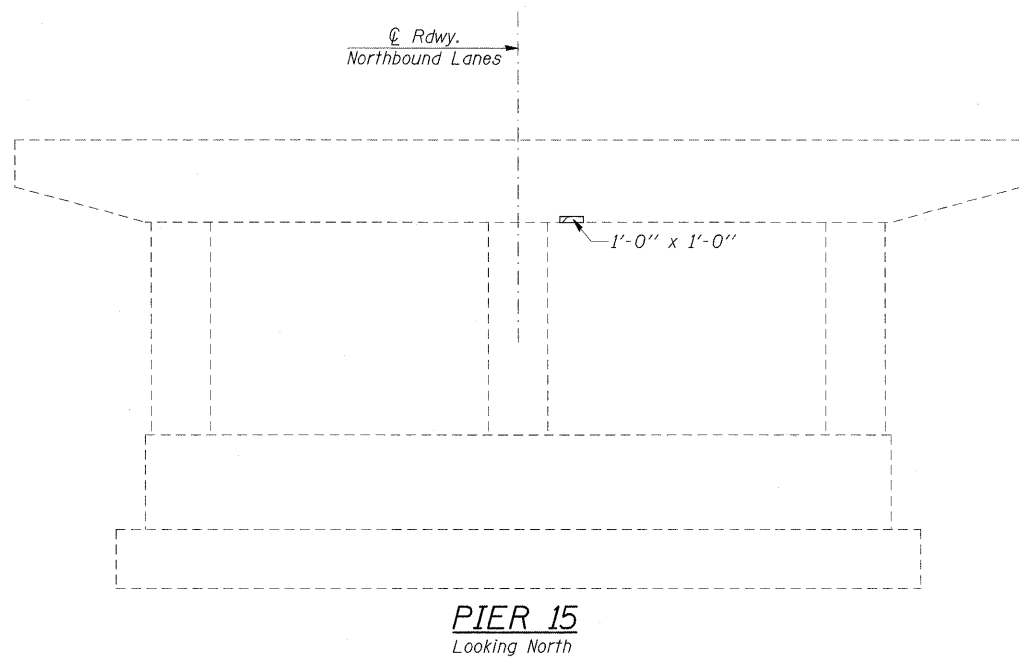


Structural Repair of Concrete $\leq 5''$

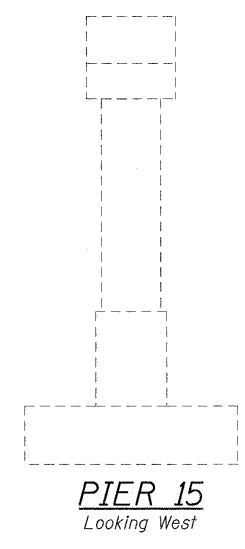
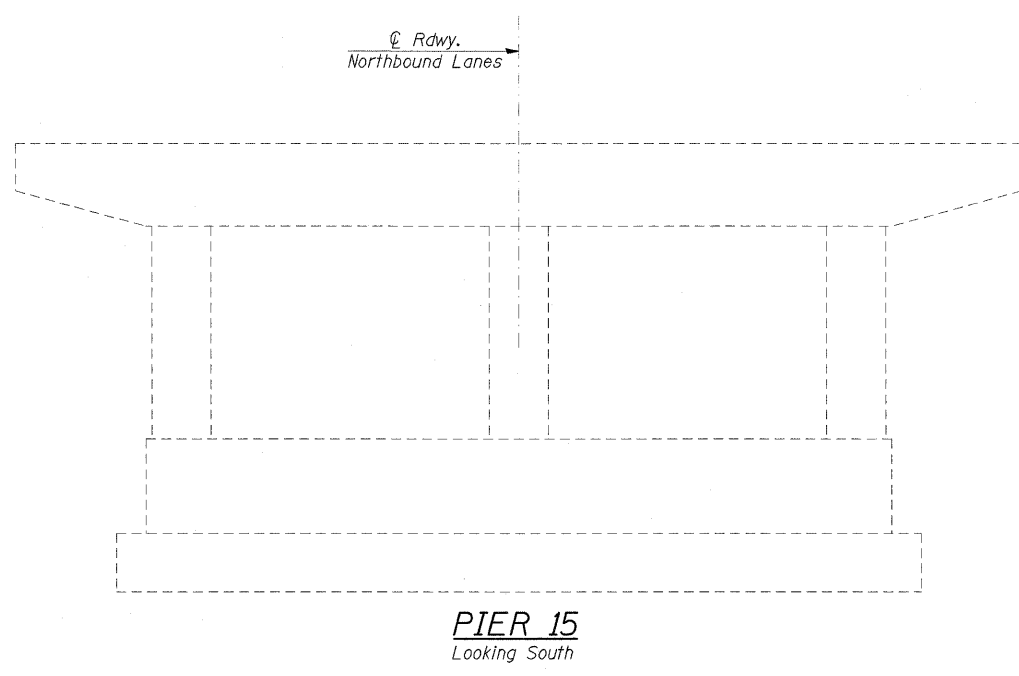


SUBSTRUCTURE REPAIRS
PIER 7
ALEXANDER COUNTY
SN 002-0023

FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0023	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en\pr_work\PW\DOT\HALSTEADTW\d0113592\02-0023.dgn		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	28	
		CHECKED -	REVISED -			CONTRACT NO. 78111					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

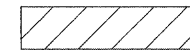


Structural Repair of Concrete $\leq 5''$



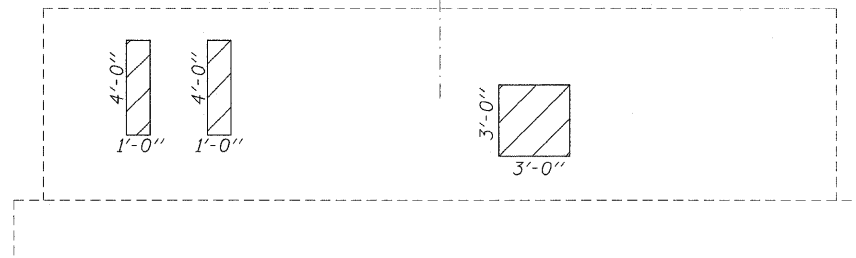
SUBSTRUCTURE REPAIRS
PIER 15
ALEXANDER COUNTY
SN 002-0023

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0023	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
es\pv_work\PWIDOT\HALSTEADTW\d0113592\002-0023.dgn		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	30		
PLOT SCALE = 4.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78111						
PLOT DATE = 4/3/2009		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.



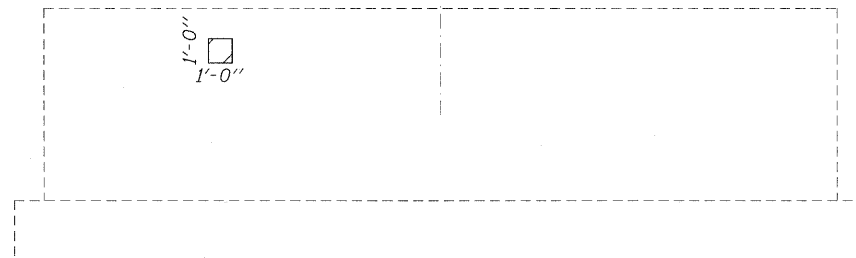
Structural Repair of Concrete \leq 5"

℄ Rdwy.
Northbound Lanes



SOUTH ABUT
Looking South

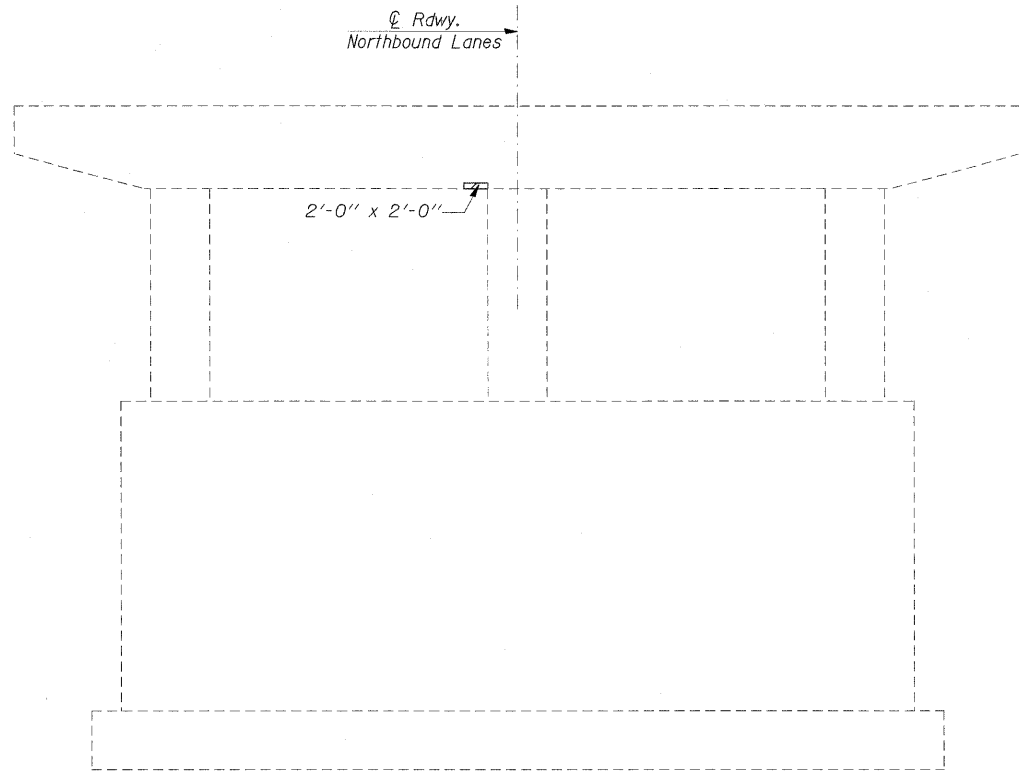
℄ Rdwy.
Northbound Lanes



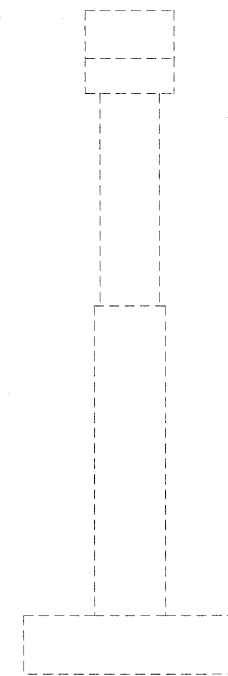
NORTH ABUT
Looking North

SUBSTRUCTURE REPAIRS
NORTH AND SOUTH ABUTMENTS
ALEXANDER COUNTY
002-0023 & 002-0024

FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0023 & 002-0024			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwwork\PWIDOT\HALSTEADW\d0113592\002-0023.dgn		DRAWN -	REVISED -					57	D9 BSMART FY09-2	ALEXANDER	45	31
		CHECKED -	REVISED -		CONTRACT NO. 78111							
		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



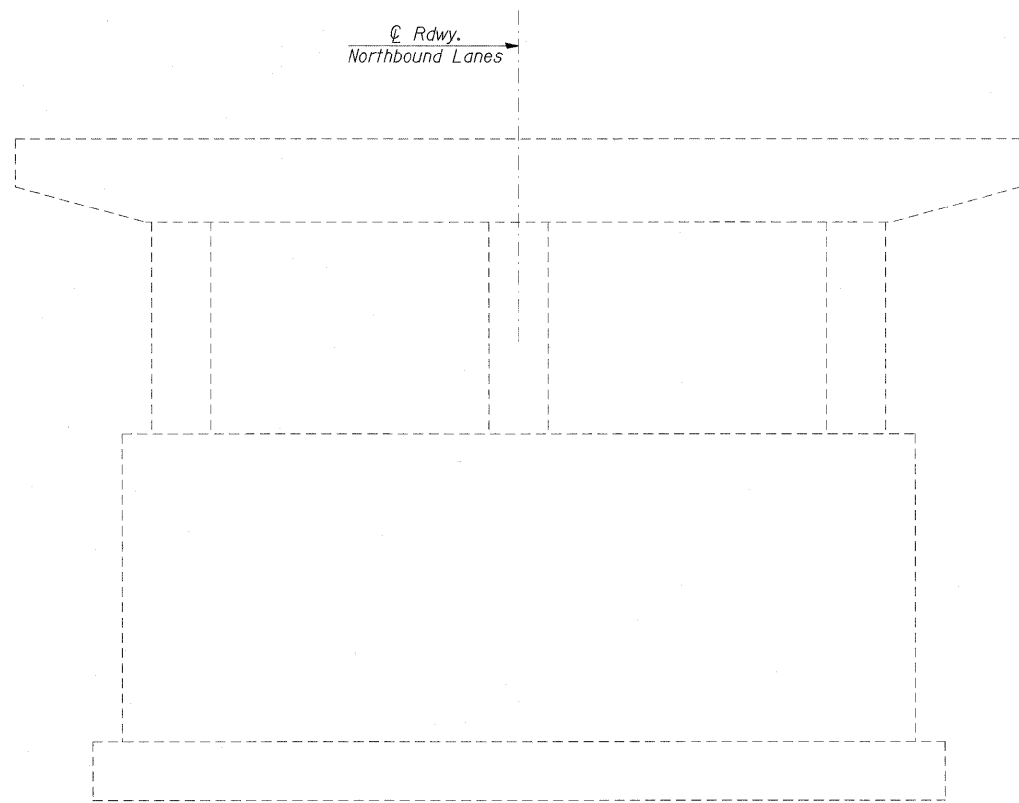
PIER 19
Looking North



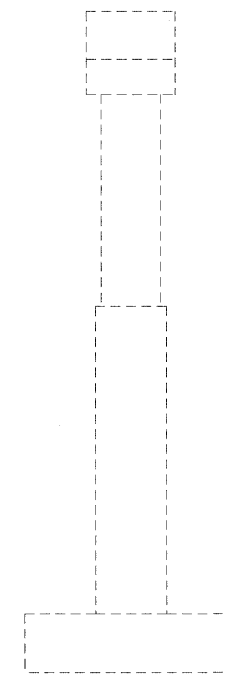
PIER 19
Looking East



Structural Repair of Concrete \leq 5"



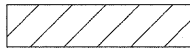
PIER 19
Looking South



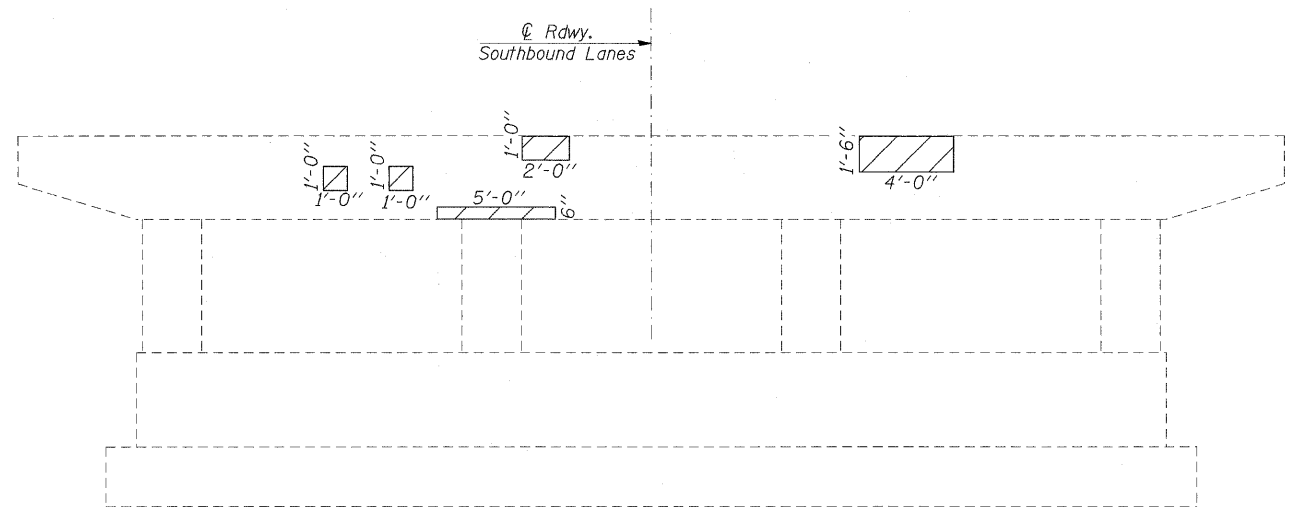
PIER 19
Looking West

SUBSTRUCTURE REPAIRS
PIER 19
ALEXANDER COUNTY
SN 002-0023

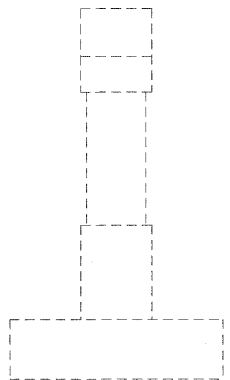
FILE NAME =	USER NAME = halscedtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0023			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PWIDOT\HALSTEADT\0113592\002-0023.dgn		DRAWN -	REVISED -					57	D9 BSMART FY09-2	ALEXANDER	45	32
		CHECKED -	REVISED -		CONTRACT NO. 78111							
		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



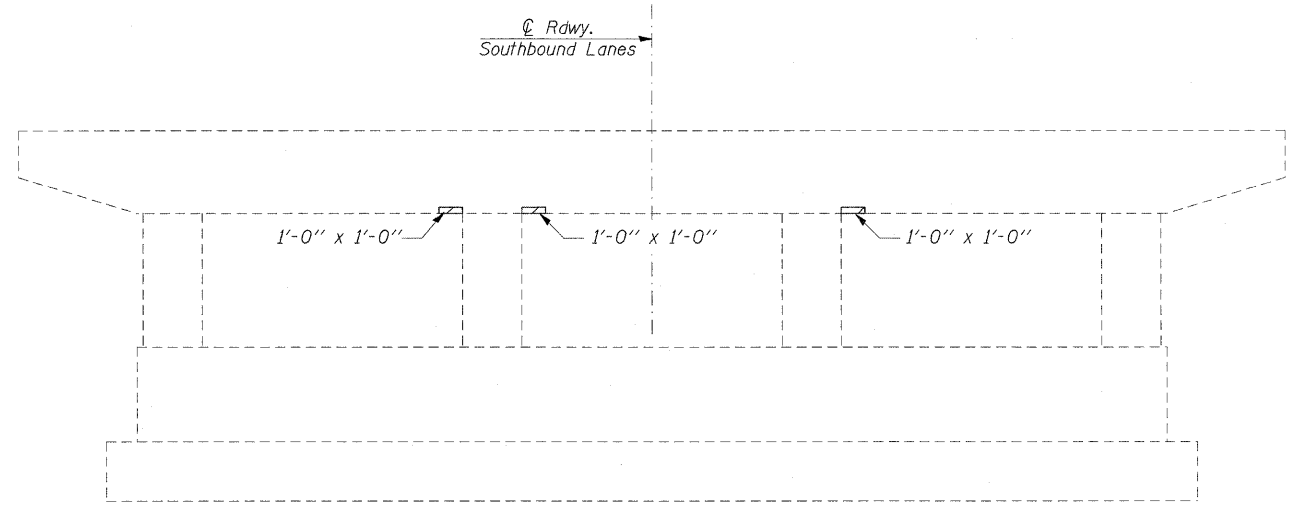
Structural Repair of Concrete $\leq 5''$



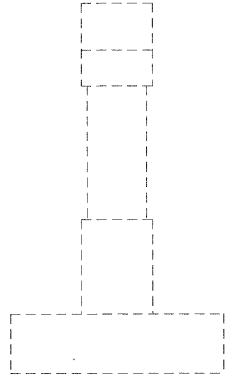
PIER 3
Looking North



PIER 3
Looking East



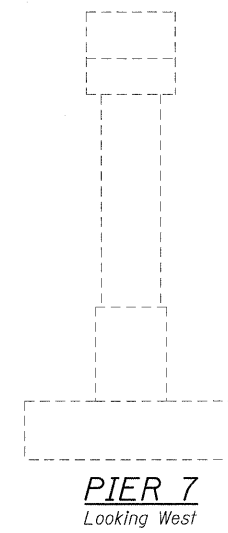
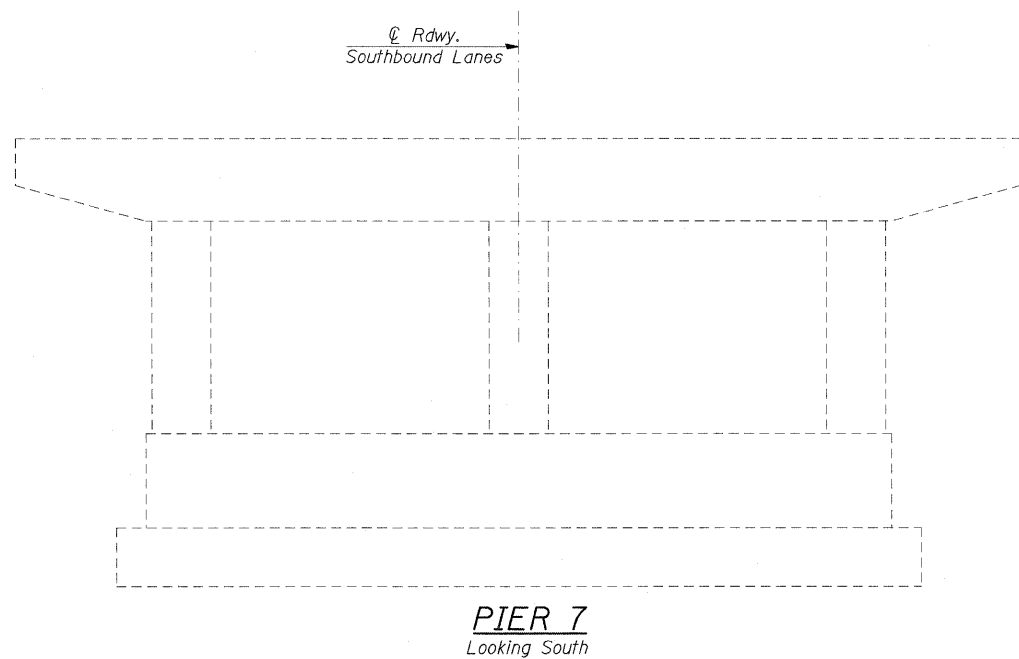
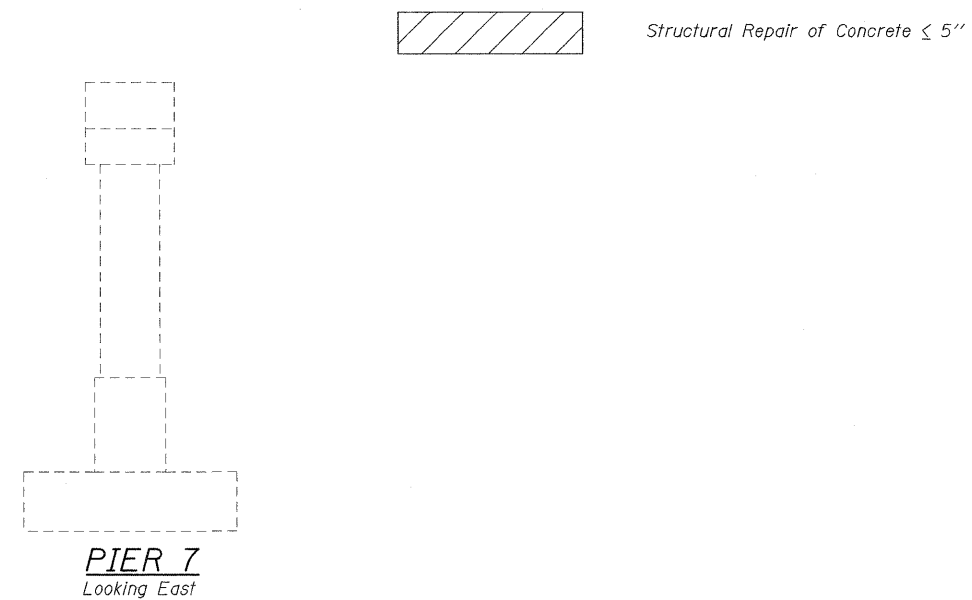
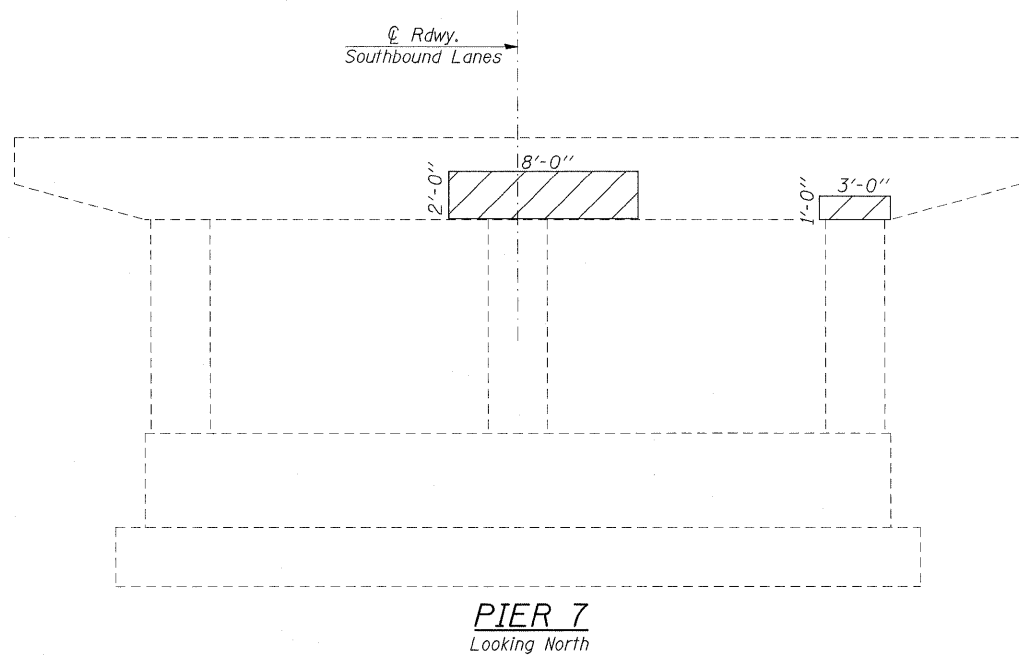
PIER 3
Looking South



PIER 3
Looking West

SUBSTRUCTURE REPAIRS
PIER 3
ALEXANDER COUNTY
SN 002-0024

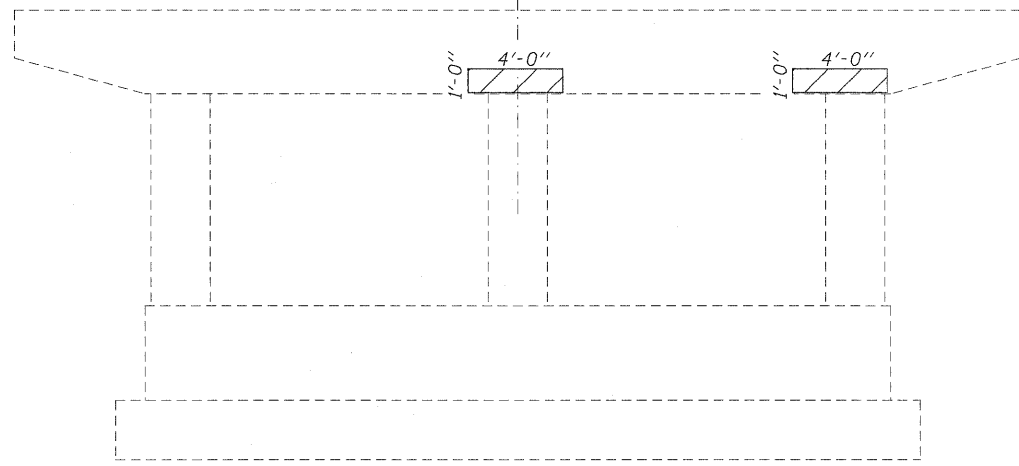
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	PLOT SCALE = 4.0000 / IN.	DRAWN -	REVISED -					57	D9 BSMART FY09-2	ALEXANDER	45	33
PLOT DATE = 4/3/2009	CHECKED -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 78111			
	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									



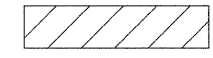
SUBSTRUCTURE REPAIRS
PIER 7
ALEXANDER COUNTY
SN 002-0024

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0024	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	34		
	PLOT SCALE = 4.0000 // IN.	CHECKED -	REVISED -			CONTRACT NO. 78111						
	PLOT DATE = 4/3/2009	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

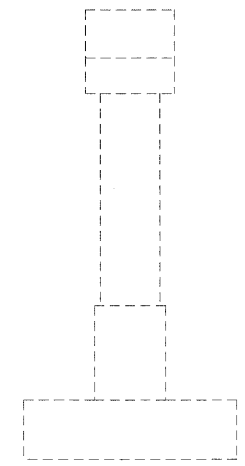
℄ Rdwy.
Southbound Lanes



PIER 11
Looking North

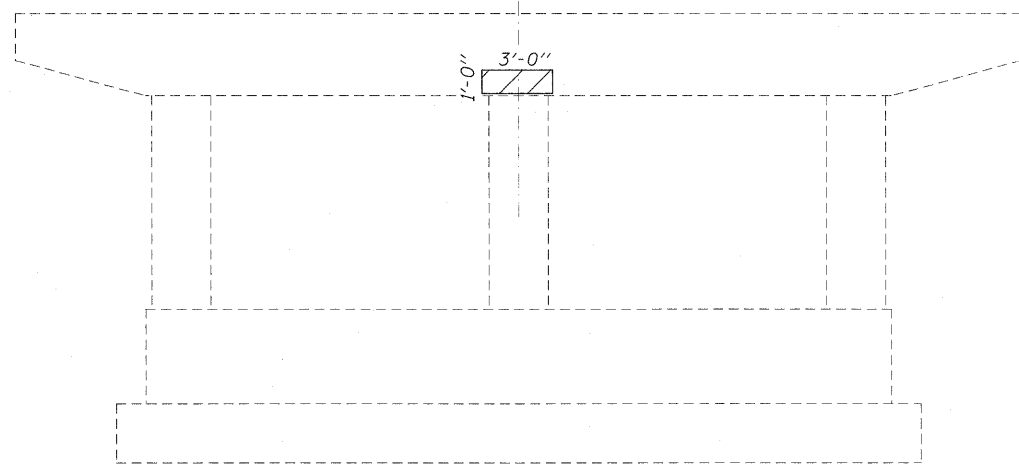


Structural Repair of Concrete ≤ 5"

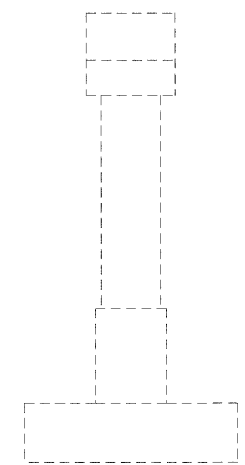


PIER 11
Looking East

℄ Rdwy.
Southbound Lanes



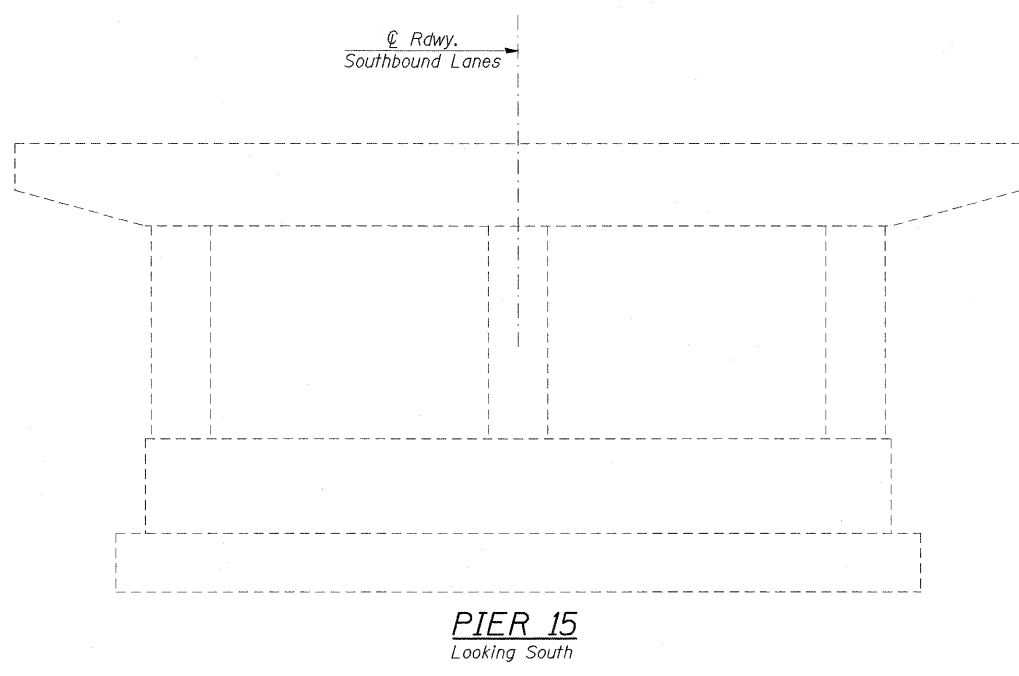
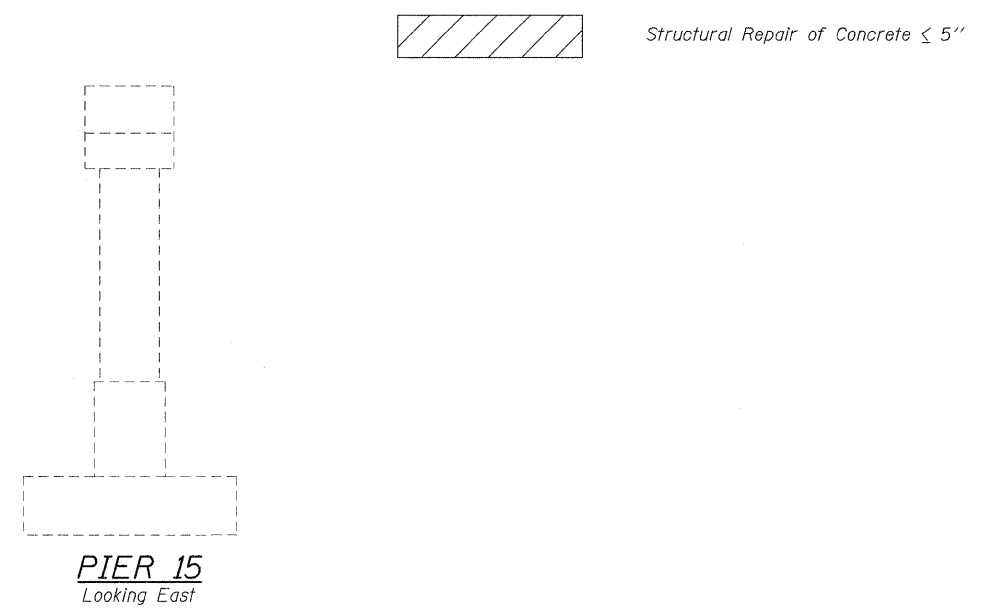
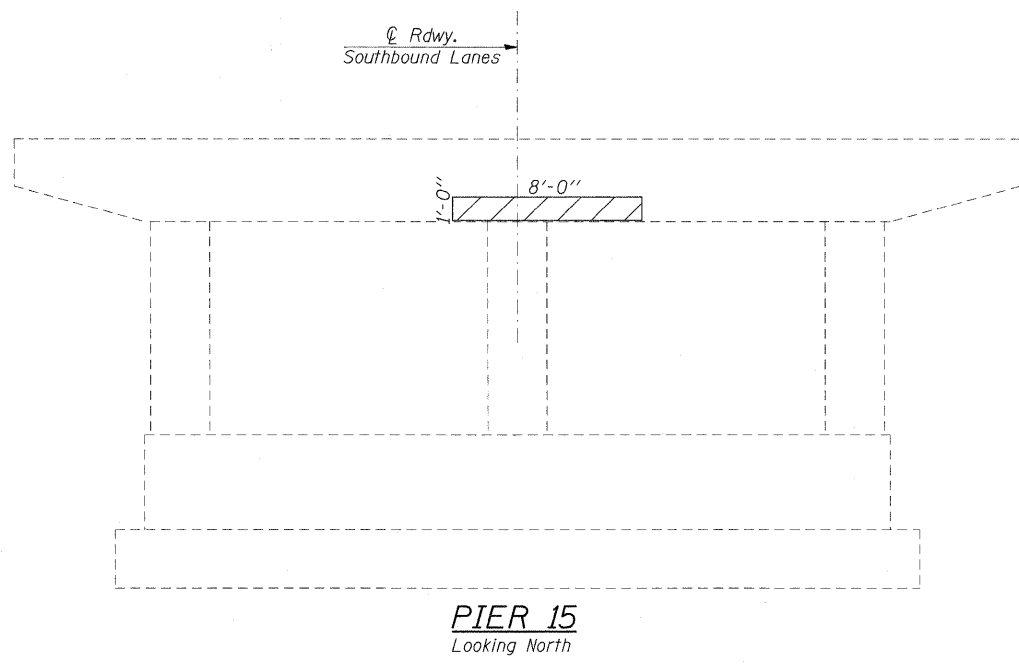
PIER 11
Looking South



PIER 11
Looking West

SUBSTRUCTURE REPAIRS
PIER 11
ALEXANDER COUNTY
SN 002-0024

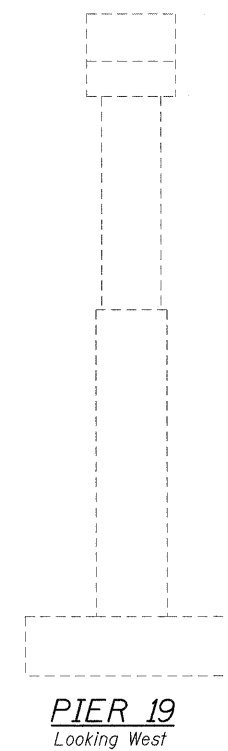
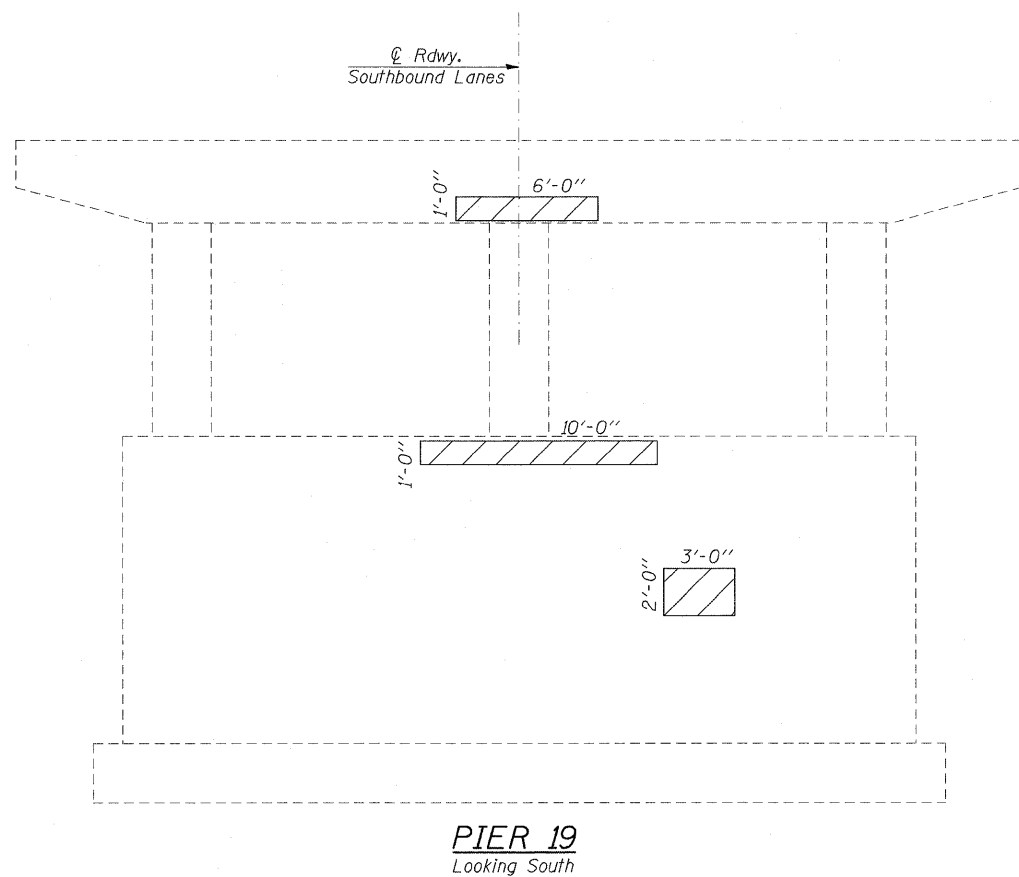
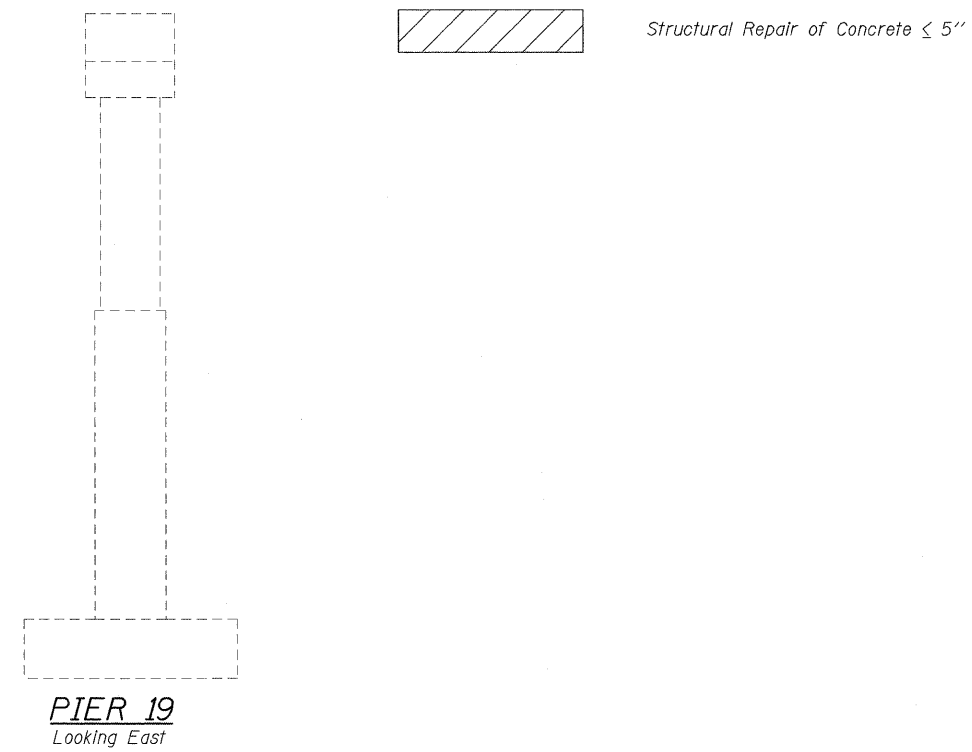
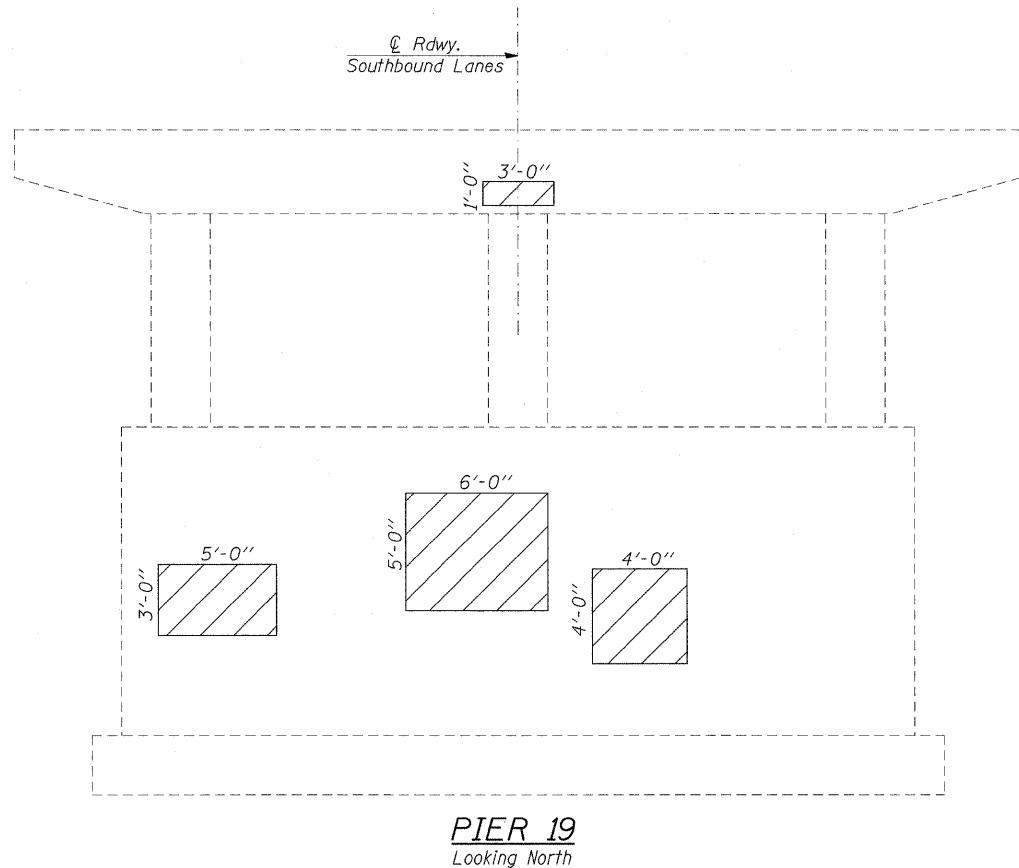
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PLOT SCALE = 4.0000 1/ IN.	CHECKED -	REVISED -	57			D9 BSMART FY09-2	ALEXANDER	45	35	
PLOT DATE = 4/3/2009	DATE -	REVISED -	CONTRACT NO. 78111							
			SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



Structural Repair of Concrete $\leq 5''$

SUBSTRUCTURE REPAIRS
PIER 15
ALEXANDER COUNTY
SN 002-0024

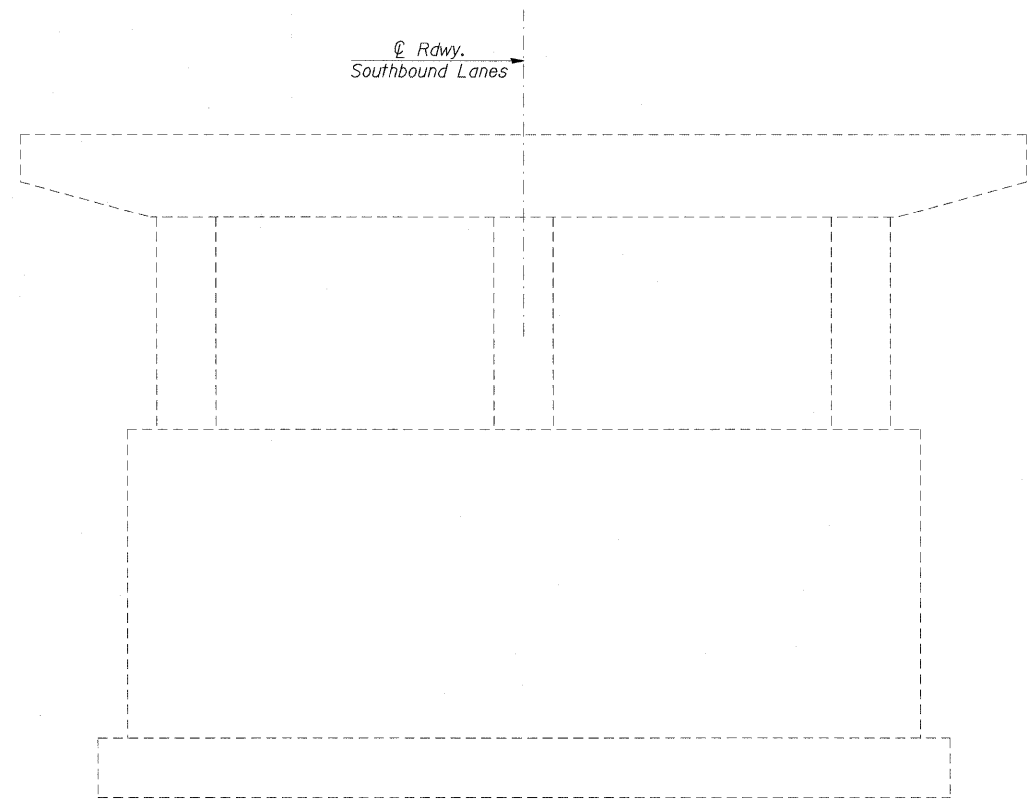
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ce:\p\work\PWIDOT\HALSTEADTW\d0113592\02-0023.dgn		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	36
PLOT SCALE = 4.0000 "/>										
PLOT DATE = 4/3/2009		CHECKED -	REVISED -			CONTRACT NO. 78111				
		DATE -	REVISED -	SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



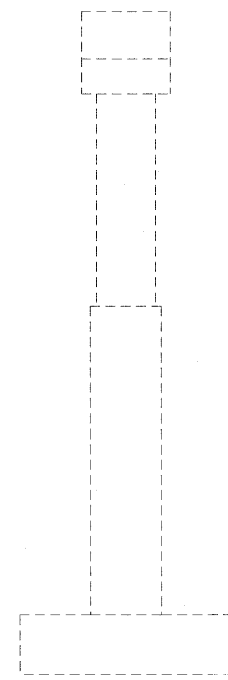
Structural Repair of Concrete $\leq 5''$

SUBSTRUCTURE REPAIRS
PIER 19
ALEXANDER COUNTY
SN 002-0024

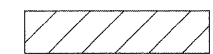
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ca\pwwork\pww\DOT\HALSTEADTW\d0113592\022-0023.dgn		DRAWN -	REVISED -			57	D9 BSMART FY09-2	ALEXANDER	45	37	
PLOT SCALE = 4,0000 1/ IN.		CHECKED -	REVISED -			CONTRACT NO. 78111					
PLOT DATE = 4/3/2009		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



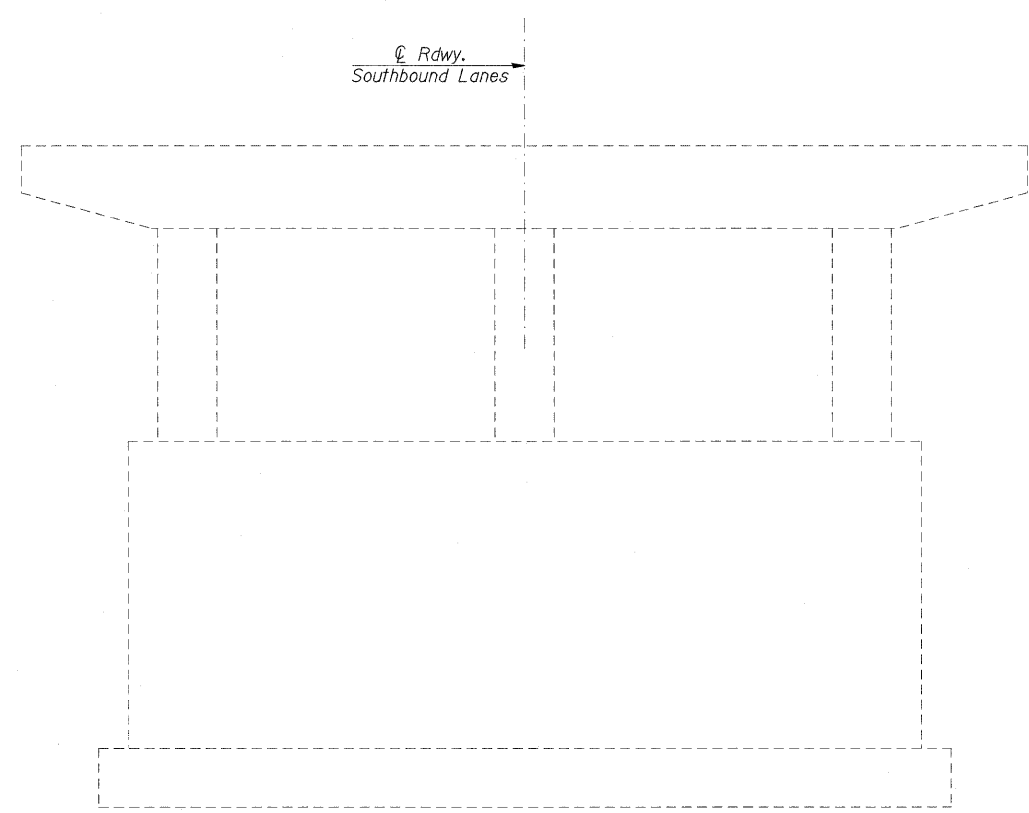
PIER 23
Looking North



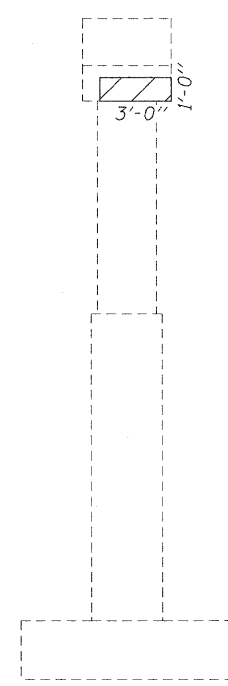
PIER 23
Looking East



Structural Repair of Concrete $\leq 5''$



PIER 23
Looking South



PIER 23
Looking West

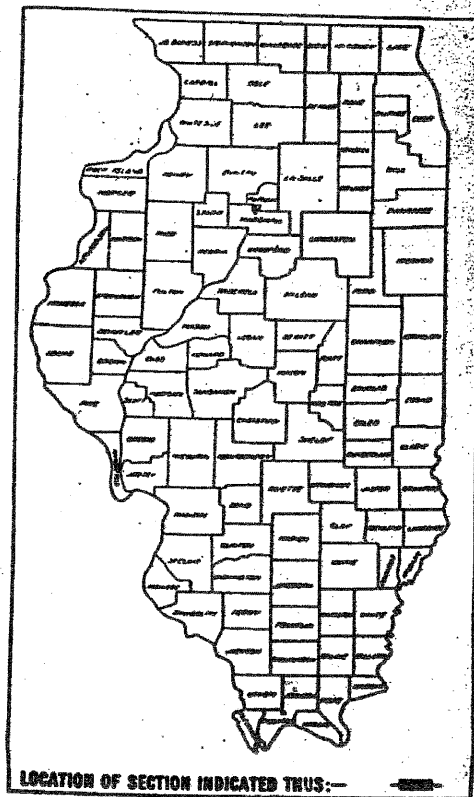
SUBSTRUCTURE REPAIRS
PIER 23
ALEXANDER COUNTY
SN 002-0024

FILE NAME =	USER NAME = helsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REPAIRS SN 002-0024			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw_work\PWIDOT\HALSTEADTW\d0113592\002-0023.dgn		DRAWN -	REVISED -					57	D9 BSMART FY09-2	ALEXANDER	45	38
PLOT SCALE = 4.0000 1/1 IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 78111				
PLOT DATE = 4/3/2009		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

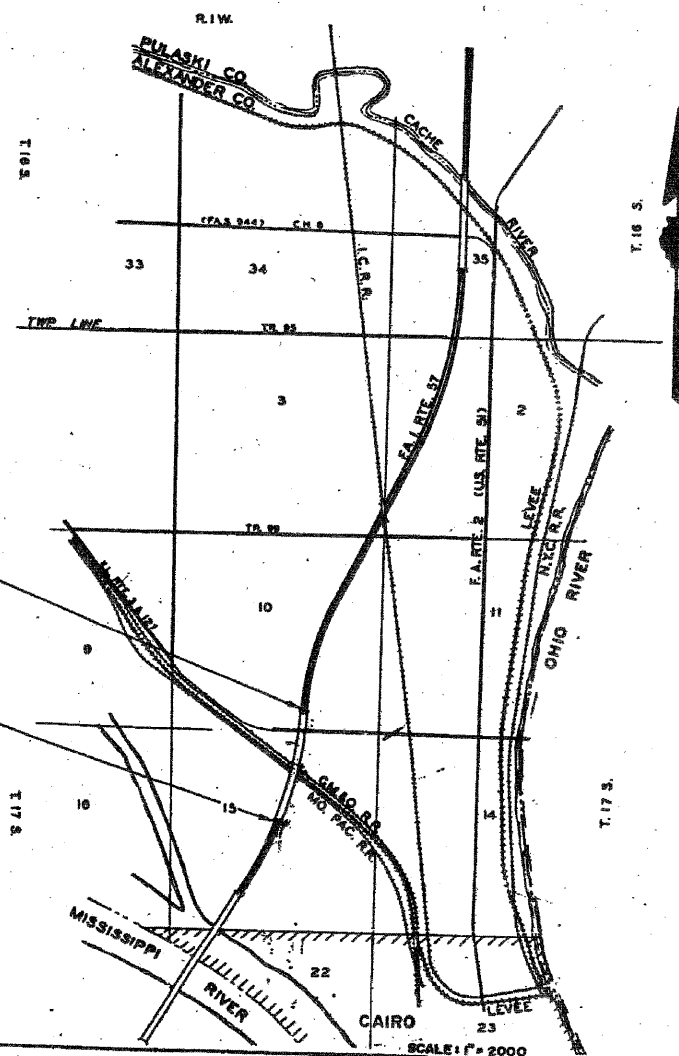
SN 002-0023, 24

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 FEDERAL AID INTERSTATE HIGHWAY**
 F.A.I. ROUTE 57: SECTION 02-IVB; ALEXANDER COUNTY
 PROJECT IG-57-1(91)I
 C-99-112-66

ROUTE NO.	SEC.	COUNTY	TOWNSHIP	RANGE
F.A.I. 57	02-IVB	ALEXANDER	156	1
P-99-015-64(003)				



INDEX OF SHEETS, SHEET NO. 2
 SUMMARY OF QUANTITIES, SHEET NO. 2



PROPOSED IMPROVEMENT BEGINS
 PROJECT IG-57-1(91)I
 SECTION 02-IVB
 STA. 1089+87.01 @ EAST LANES

PROPOSED IMPROVEMENT ENDS
 PROJECT IG-57-1(91)I
 SECTION 02-IVB
 STA. 1119+83.69 @ EAST LANES

SECTION 02-IVB CONSISTS OF FURNISHING ALL MATERIAL AND THE COMPLETE CONSTRUCTION OF A DUAL THIRTY SPAN WELDED PLATE GIRDER STRUCTURE CARRYING F.A.I. ROUTE 57 OVER S.B.I. ROUTE 150, EXIST. ROUTE 3, G.M. & O.R.R., LEVEE AND M.P.R.R., STA. 1089+73.00 TO STA. 1119+69.00 (STATIONING ALONG CENTER LINE OF F.A.I. ROUTE 57)

CONTRACT NO. 28160

JOB NUMBER - P-99-015-64(003)

ALEXANDER COUNTY SECTION 02-IVB F.A.I. ROUTE 57

NET LENGTH OF PROJECT
 3016.68 LIN. FT. = 0.5713 MILES N. BD. LANES

APPROVED

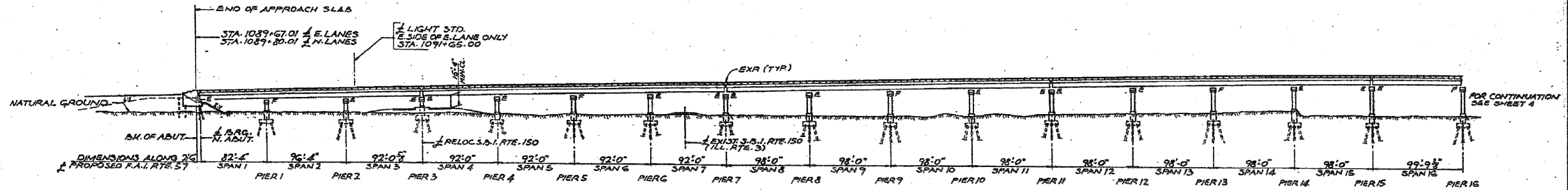
[Signature]
 Engineer of Bridges & Structures

DESIGNED	Aug 20 1970
DRAWN	Aug 6 1970
CHECKED	Aug 6 1970
APPROVED	Aug 6 1970
APPROVED	Aug 6 1970

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ENGINEER	DATE

B.M. CONC. MONUMENT WITH BRASS CAP ON TOP OF LEVEE 357' LT. STA. 1087+00 ELEV. 336.91

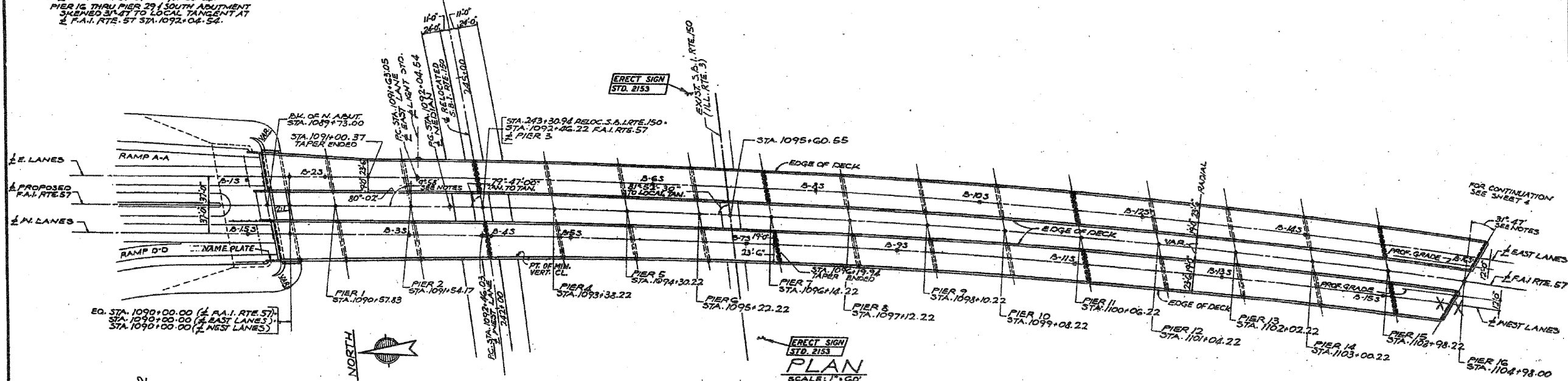
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57 02-IVB	ALEXANDER	156	3
STA.	TO STA.		
B. P. & REL. NO. 4	ALPHABET	PROJECT	



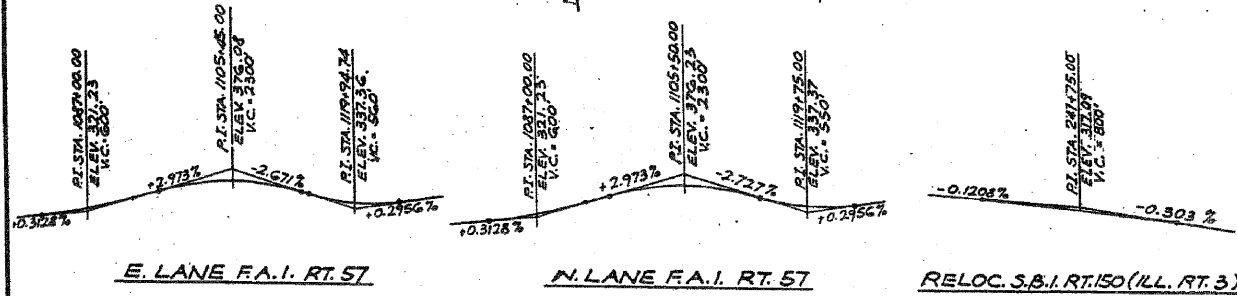
NOTES FOR SKEW ANGLES OF ABUTMENTS AND PIERS

NORTH ABUT. (PIER 1 THRU PIER 15 INCL. SKEWED 91.54 TO LOCAL TANGENT AT F.A.I. RTE. 57 STA. 1092+04.54.
 PIER 16 THRU PIER 21 (SOUTH ABUTMENT SKEWED 31.67 TO LOCAL TANGENT AT F.A.I. RTE. 57 STA. 1092+04.54.

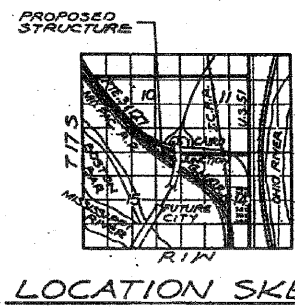
ELEVATION
SCALE: 1"=10'



PLAN
SCALE: 1"=60'



DESIGN DATA
 HIGHWAY CLASSIFICATION
 F.A.I. ROUTE 57
 DESIGN LOAD
 FUTURE D.L. = 25 P.S.F.
 DESIGN STRESSES
 CONCRETE (CAST-IN-PLACE)
 f_c = 3,500 P.S.I.
 f_c = 1,200 P.S.I. (DECK SLAB)
 f_c = 1,400 P.S.I. (SUBSTRUCTURE, CURB & PARAPET)
 f_c = 1,000 P.S.I. (WITH EARTH PRESSURE)
 v = 75 P.S.I. (FOOTINGS)
 n = 10
 REINFORCING STEEL
 f_s = 20,000 P.S.I.
 STRUCTURAL STEEL
 f_s = 20,000 P.S.I. (A36)
 PILE CAPACITY
 ABUTMENTS = 45 TON CONCRETE PILES
 PIERS = 35 TON CONCRETE PILES
 MAX. L.L. DEFLECTION
 1/1200 (COMPOSITE)



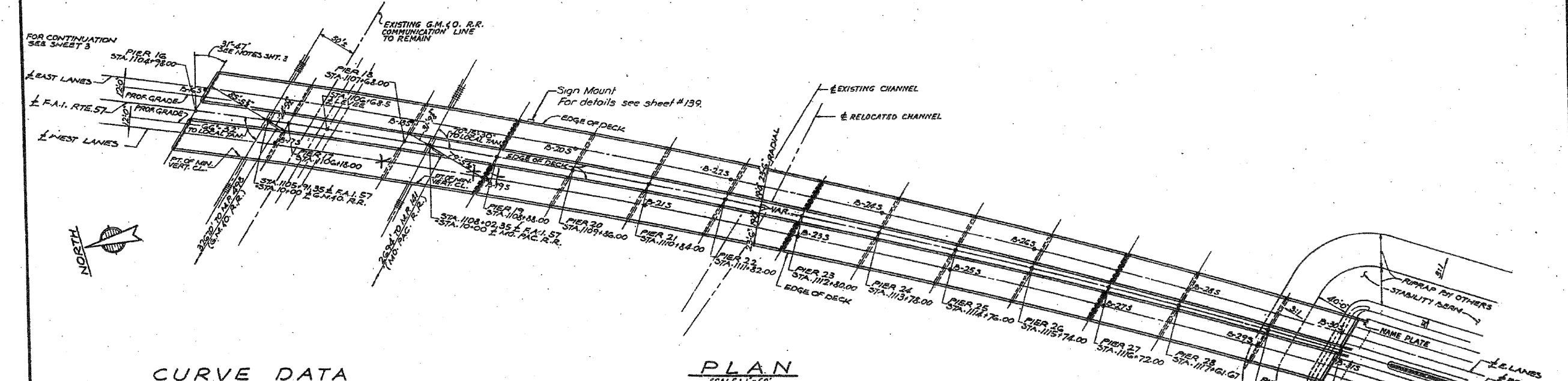
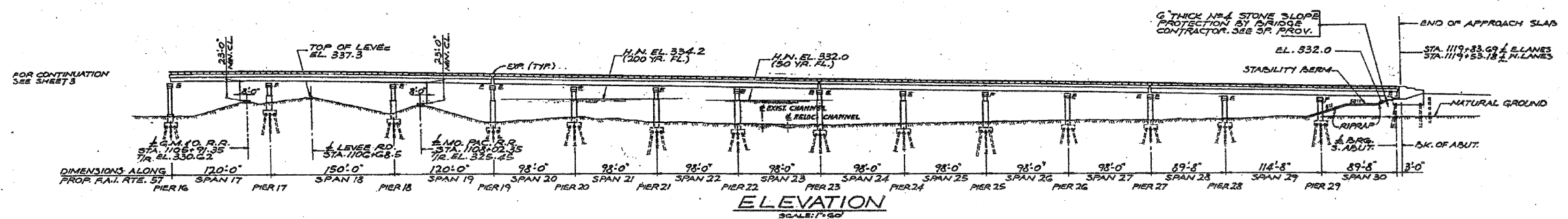
STATION 1092+46.22
 BUILT 197 BY
 STATE OF ILLINOIS
 F.A.I. RTE 57 SECT. 02-IVB
 F.A. PROJ. IG-57-1(91)
 LOADING HS 20-44 & ALT.
 2 REQ'D. SEE STATE OF ILLINOIS STANDARD 2113
 LETTERING FOR NAME PLATE

GENERAL PLAN AND ELEVATION
 F.A.I. RTE. 57 OVER S.B.I. RTE. 150,
 EXIST. RTE. 3, G.M. & G.R., LEVEE & M.P.R.R.
 PROJECT IG-57-1 (91) 1
 F.A.I. RTE. 57 SECTION 02-IVB
 ALEXANDER COUNTY
 STA. 1089+73.00 TO STA. 1119+69.00

ALFRED BENECH & COMPANY
 CONSULTING ENGINEERS
 10 S. WABASH AVE. CHICAGO, ILLINOIS

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIGINAL PLANS INFORMATION ONLY				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pwork\p\WIDOT\HALSTEADTW\d0113592\02-0023-sht-stage.dgn		DRAWN -	REVISED -		SCALE: 1"=100'	SHEET NO.	OF	SHEETS	STA.	TO STA.	ALEXANDER	45	40
		CHECKED -	REVISED -		CONTRACT NO. 78111								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

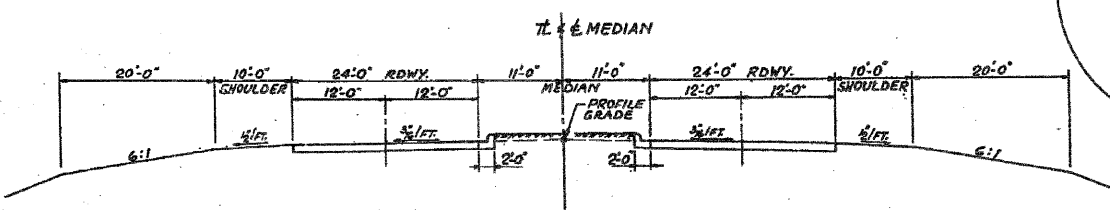
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA157	02-IVB	ALEXANDER	156	4
STA.	TO STA.			
S.P. & REG. NO. 4		BLANKS	PROJECT	



CURVE DATA

± S.B.I. RTE. 150 (RELOC. RTE. 3)		± F.A.I. RTE. 57, ± E. & N. LANES	
P.I. STA. 224+29.77	Δ = 58°-58'-15"	P.I. STA. 1112+80.09 (± E LANES)	Δ = 25°-00'
D = 1'-20"	R = 4297.18'	P.I. STA. 1113+21.58 (± F.A.I. RTE. 57)	D = 0'-36'
T = 2427.77'	L = 4422.81'	P.I. STA. 1113+63.07 (± N. LANES)	R = 9547.34'
E = 639.38'	S.E. = 0.038'/FT.		T = 2117.04'
S.E. ATTAINED STA. 245+56.14 TO STA. 243+56.14 (ROTATED AROUND TL OF MEDIAN)			L = 4166.67'
			E = 231.85'
			S.E. = 0.017'/FT.

PLAN



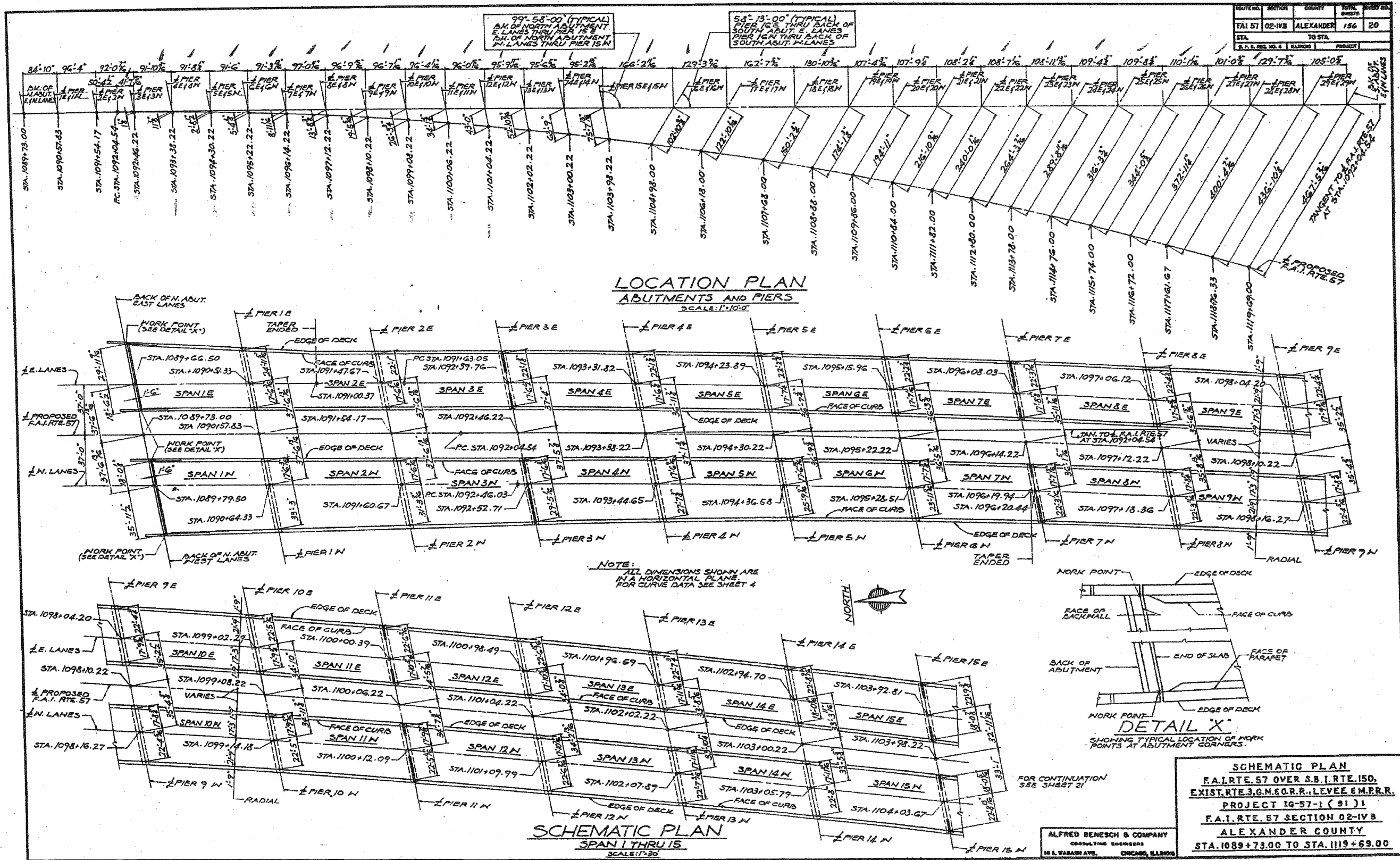
TYPICAL CROSS-SECTION RELOC. S.B.I. RTE. 150
SCALE: 1" = 10 FT.

GENERAL PLAN AND ELEVATION
F.A.I. RTE. 57 OVER S.B.I. RTE. 150,
EXIST. RTE. 3, G.M. & O. R.R. LEVEL 6 M.R.R.
PROJECT 10-57-1 (91) 1
F.A.I. RTE. 57 SECTION 02-IVB
ALEXANDER COUNTY
STA. 1089+73.00 TO STA. 1119+69.00

ALFRED BENECH & COMPANY
 CIVIL ENGINEERS
 100 S. WASHINGTON ST., ALEXANDER, ILL.

REVISED 10-6-70

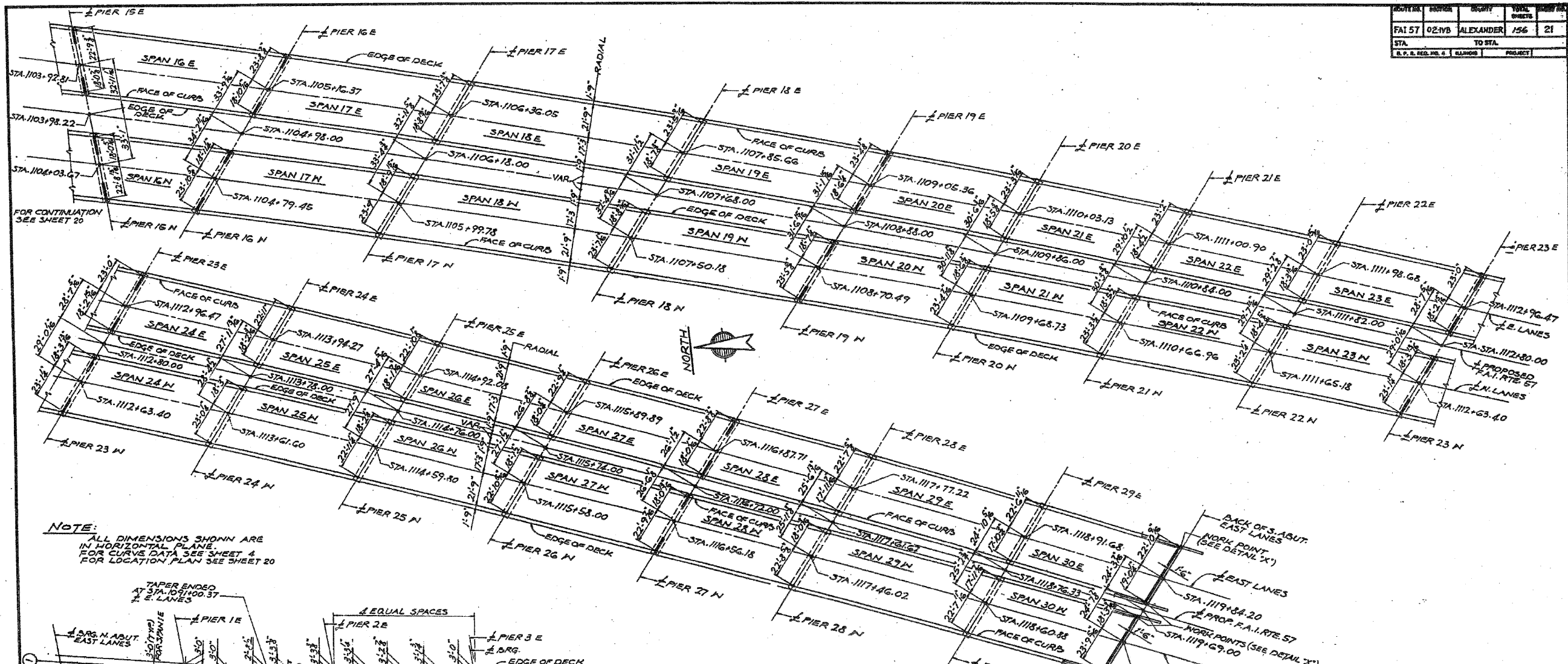
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02-0023-sht-stage.dgn		DRAWN -	REVISED -			57	D9 SMART FY09-2	ALEXANDER	45	41	
PLOT SCALE = 100,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78111					
PLOT DATE = 4/2/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



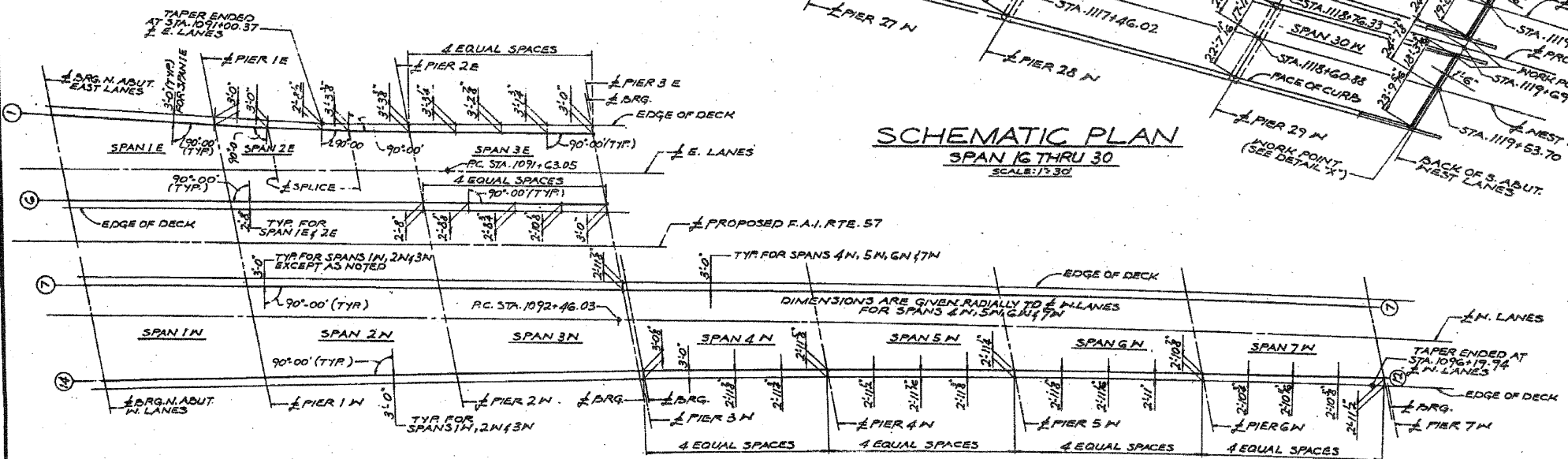
ROUTE/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57 02-IVB	ALEXANDER	156	20
STA.	TO STA.		
S. P. S. NO. 4	RANGE	PROJECT	

FILE NAME =	USER NAME = halsteadtw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIGINAL PLANS INFORMATION ONLY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd:\pw\work\PIWIDOT\HALSTEADTW\d0113592\02-0023-sht-stage.dgn		DRAWN -	REVISED -			57	D9 SMART FY09-2	ALEXANDER	45	42	
PLOT SCALE = 100.0000 ' / IN.		CHECKED -	REVISED -			CONTRACT NO. 78111					
PLOT DATE = 4/2/2009		DATE -	REVISED -			SCALE: 1"=100'	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	02-IVB	ALEXANDER	156	21
STA.	TO STA.			
S. P. & S. REG. NO. 6 ILLINOIS PROJECT				



NOTE:
ALL DIMENSIONS SHOWN ARE IN HORIZONTAL PLANE
FOR CURVE DATA SEE SHEET 4
FOR LOCATION PLAN SEE SHEET 20



SCHEMATIC PLAN
SPAN 16 THRU 30
SCALE: 1/2"=30'

SKETCH
OFFSETS FROM GIRDERS TO EDGE OF DECK FOR SPAN 1E THRU 3E & SPAN 1N THRU 7N

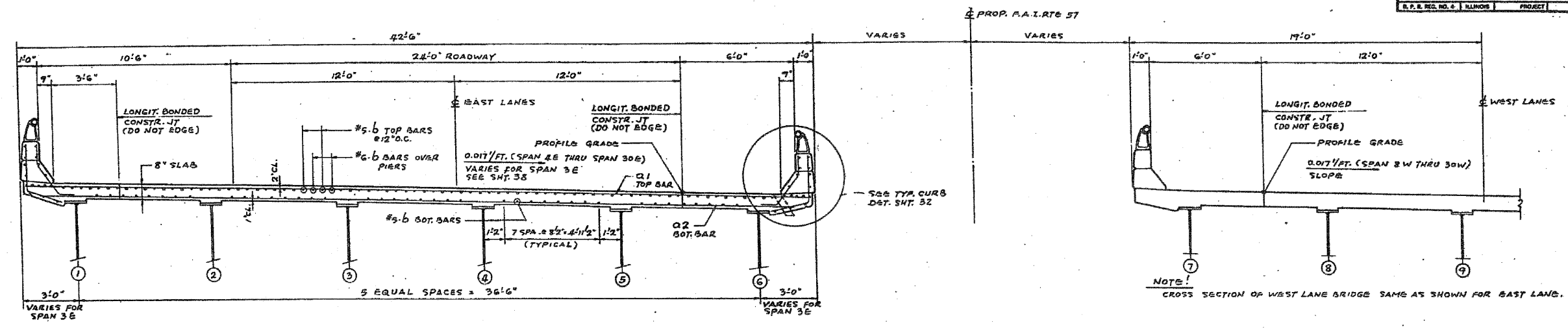
NOTE:
FOR SPANS NOT SHOWN SEE TYPICAL CROSS SECTION SHT. 51

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
10 S. WABASH AVE. CHICAGO, ILLINOIS

SCHEMATIC PLAN
F.A.I. RTE. 57 OVER S.B.I. RTE. 150,
EXIST. RTE. 3, G.M. & O.R.R., LEVEE & M.P.R.R.
PROJECT IG-57-1 (91) I
F.A.I. RTE. 57 SECTION 02-IVB
ALEXANDER COUNTY
STA. 1089+73.00 TO STA. 1119+63.00

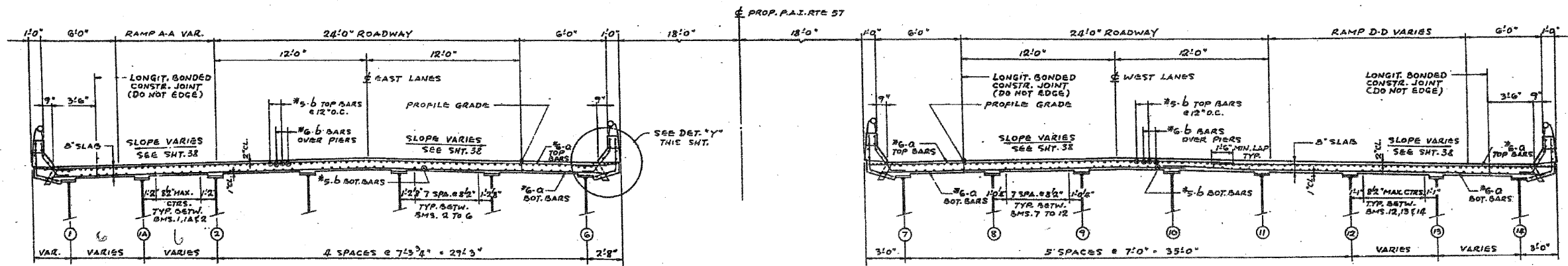
FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIGINAL PLANS INFORMATION ONLY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\pwwdot\HALSTEADW\d0113592\02-2023-sht-stage.dgn	DRAWN -	REVISED -	57			D9 SMART FY09-2	ALEXANDER	45	43		
PLOT SCALE = 100,0000 ' / IN.	CHECKED -	REVISED -	SCALE: 1"=100'			SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 78111			
PLOT DATE = 4/2/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57 02-IVB	ALEXANDER	156	31	
STA.	TO STA.			
1089+73.00	1119+69.00			



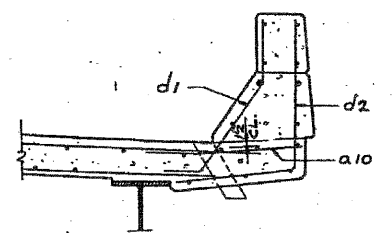
CROSS-SECTION - SPANS 3E THRU 30E & SPANS 8W THRU SPAN 30W
(LOOKING SOUTH)
SCALE: 3/8" = 1'-0"

NOTE!
HORIZONTAL BONDED CONSTRUCTION JOINTS IN CURB SHALL BE IN ACCORDANCE WITH ARTICLE 504.13 (b) (1, 2 OR 3) OF THE STANDARD SPECIFICATIONS.



CROSS-SECTION - SPAN 1E SHOWN
SPAN 2E SIMILAR (SEE FRAMING PLAN)
SCALE: 3/8" = 1'-0"

CROSS-SECTION - SPANS 1W, 2W & 3W
SCALE: 3/8" = 1'-0"



Note!
DIMENSIONS AND DETAILS NOT SHOWN SAME AS TYP. CURB DETAIL.

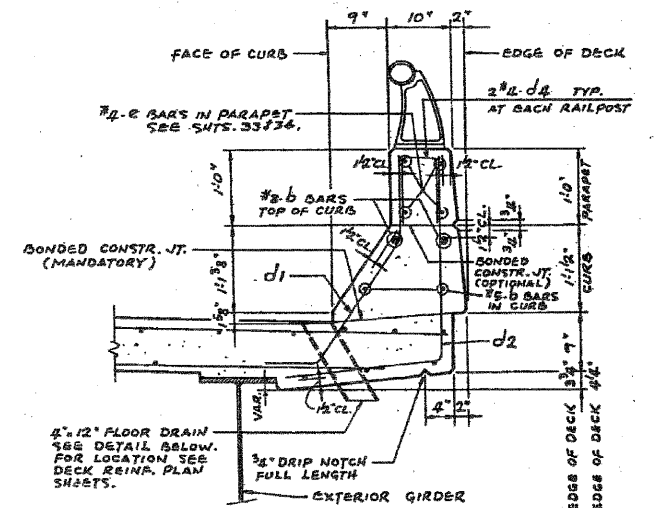
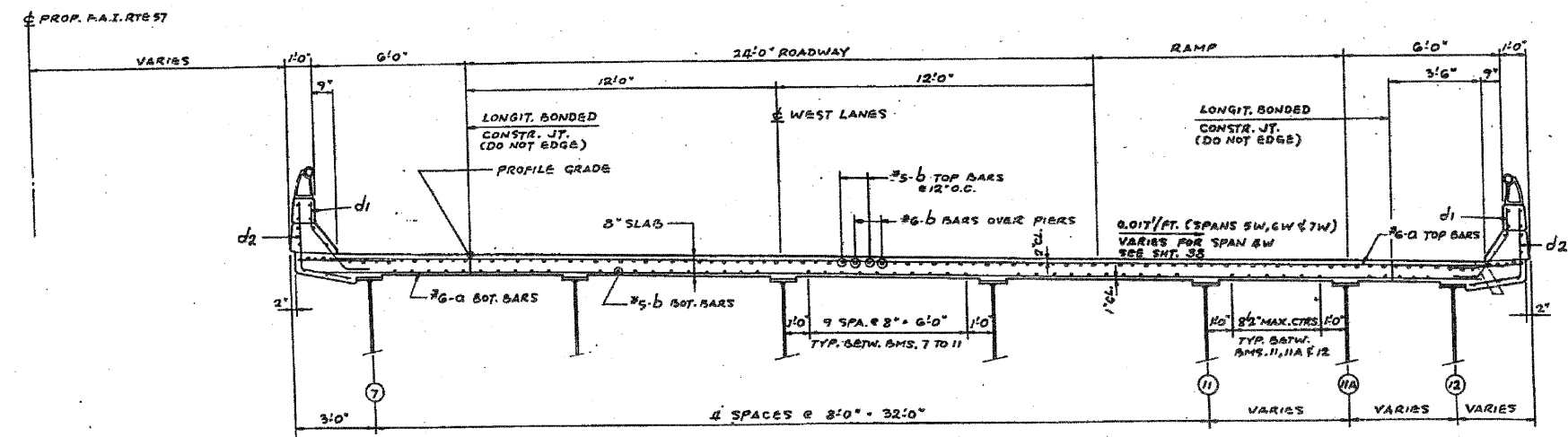
CURB DETAIL "Y"
SCALE: 3/8" = 1'-0"

DECK DETAILS
F.A.I. RTE. 57 OVER S.B.I. RTE. 150,
EXIST. RTE. 3, G.M.E.O.R.R., LEVEE & M.P.R.R.
PROJECT IG-57-1 (91) I
F.A.I. RTE. 57 SECTION 02-IVB
ALEXANDER COUNTY
STA. 1089+73.00 TO STA. 1119+69.00

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
101 S. WALSH AVE. CHICAGO, ILLINOIS

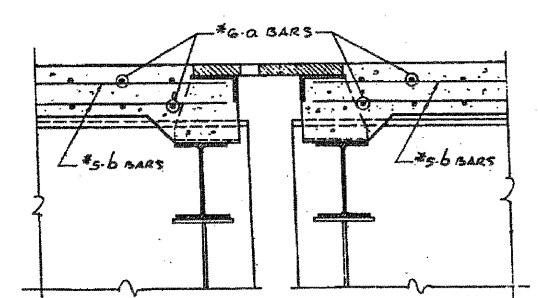
FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIGINAL PLANS INFORMATION ONLY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cd:\pwork\pwork\DOT\HALSTEADT\0113592\02-0023-sht-stage.dgn	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			57	D9 SMART FY09-2	ALEXANDER	45	44	
PLOT DATE = 4/2/2009	DATE -	CHECKED -	REVISED -			CONTRACT NO. 78111					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	02-IVB	ALEXANDER	156	32
STA.	TO STA.			
S.P.R. NO. 4		ILLINOIS	PROJECT	

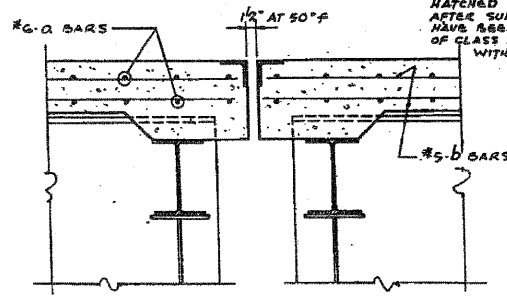


NOTE!
HORIZONTAL BONDED CONSTRUCTION JOINTS IN CURB SHALL BE IN ACCORDANCE WITH ARTICLE 504.13 (b) (1, 2 OR 3) OF THE STANDARD SPECIFICATIONS.

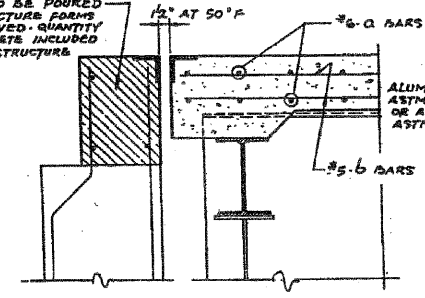
DECK SECTION B-B - SPANS 4W & 5W
SPAN 6W & 7W SIMILAR - SEE FRAMING PLAN SHT. 57
SCALE: 3/8"=1'-0"



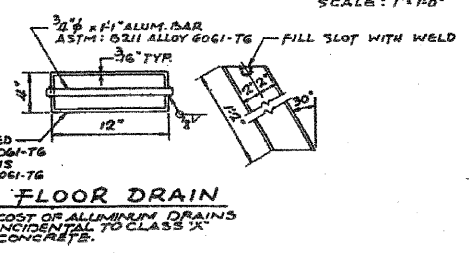
SECTION 'C-C'
SCALE: 1"=1'-0"



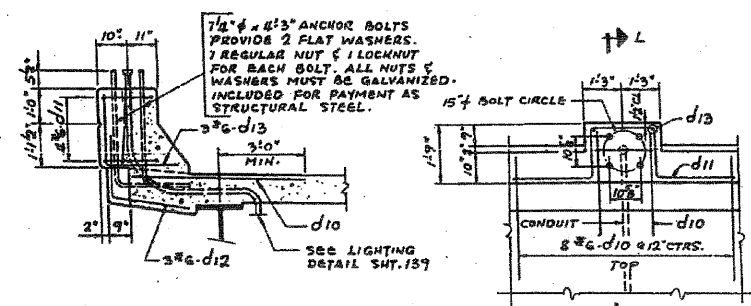
SECTION 'D-D'
SCALE: 1"=1'-0"



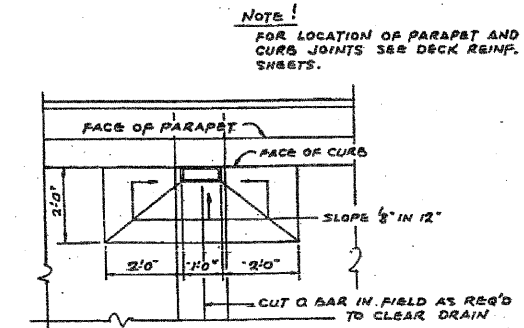
SECTION 'E-E'
SCALE: 1"=1'-0"



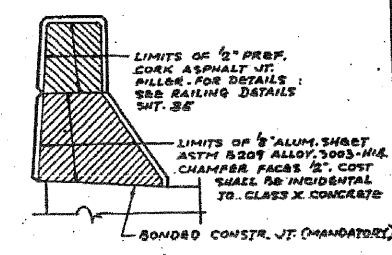
FLOOR DRAIN
COST OF ALUMINUM DRAINS INCIDENTAL TO CLASS 'X' CONCRETE.



SECTION 'L-L'
TYP. DETAILS AT LIGHT STANDARD
SCALE: 1/2"=1'-0"



TYP. DETAIL AT DRAIN
SCALE: 1/2"=1'-0"



LIMITS OF 2" JT. FILLER & 6" ALUM. SHEET AT CURBS

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
111 W. WASHINGTON AVE. CHICAGO, ILLINOIS

DECK DETAILS
F.A.I. RTE. 57 OVER S.B.I. RTE. 150,
EXIST. RTE. 3, G.M.E.O.R.R., LEVEE IMPROV.
PROJECT IG-57-1 (91) I
F.A.I. RTE. 57 SECTION 02-IVB
ALEXANDER COUNTY
STA. 1089+73.00 TO STA. 1119+69.00

FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIGINAL PLANS INFORMATION ONLY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 102.0000 1/ IN.	CHECKED -	REVISED -	CONTRACT NO. 78111							
PLOT DATE = 4/2/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							