1-20-2012 LETTING ITEM 082

### STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

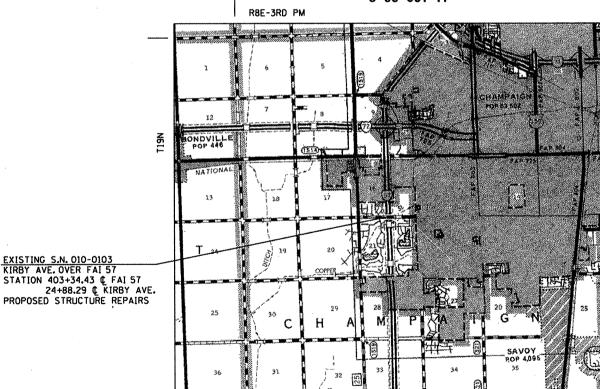
**DIVISION OF HIGHWAYS** 

# **PROPOSED HIGHWAY PLANS**

F.A.I. ROUTE 57 (I-57) SECTION (10-33 HB)BDR

**BRIDGE DECK REPAIRS** KIRBY AVENUE OVER FAI 57 CHAMPAIGN COUNTY

C-95-031-11



**CURRENT** TRAFFIC DATA

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

KIRBY / (FAI-57)

2011 ADT = 7,600 / (23,500)

2031 ADT = 10,900 / (32,500)

90.3 / (75.9)

0

 $\circ$ 

0

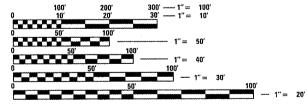
 $\circ$ 

6.7 / (3.7)

3.0 / (20.4)

## **DESIGN DESIGNATION**

LOCAL STREET / (INTERSTATE)



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CHAMPAIGN TOWNSHIP

PROJECT ENGINEER: TIM BRANDENBURG PROJECT MANAGER: TIM BRANDENBURG

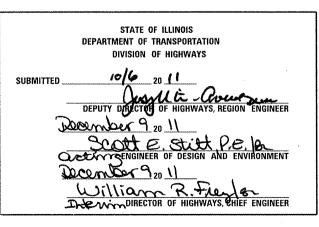
GROSS LENGTH = 418.78 FT. = 0.079 MILE NET LENGTH = 418.78 FT. = 0.079 MILE

CONTRACT NO. 70924

CHAMPAIGN 27 1

D-95-031-11





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

SHEET NO,	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
2	GENERAL NOTES
2	COMMITMENTS
3	SUMMARY OF QUANTITIES
4 - 6	GENERAL PLAN - KIRBY AVENUE
7	GENERAL PLAN & ELEVATION
8	DECK CROSS SECTIONS
9	BRIDGE DECK WEARING SURFACE PLAN
10	SUPERSTRUCTURE REPAIR PLAN
11	AS-BUILT PATCHING PLAN
12	JOINT & DRAIN REPAIR DETAILS
13	DECK DRAIN EXTENSION DETAIL
14	STEEL RAILING DETAIL
15 - 21	AS-BUILT PLANS; SN 010-0103 (FOR INFORMATION ONLY)
22	TC&P DEVICES (ROAD & SIDEROAD/STREET CLOSURES)
23 - 27	DETOUR SIGNING

### LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
 631032-07	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5m (15') AWAY
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS

### **GENERAL NOTES**

### **GENERAL NOTES**

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

#### MIXTURE REQUIREMENTS

Location(s):	KIRBY A\	/ENUE
Mixture Use(s):	Surface	Class D Patch
AC/PG:	PG 64-22	PG 64-22
RAP %: (Max)**	15%	15%
Design Air Voids:	4.0% @ Noes=50	4.0% @ N <sub>tes</sub> =50
Mixture Composition: (Gradation Mixture)	IL 9.5	IL 9.5
Friction Aggregate:	Mix D	Mix C

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

G.N.~1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

### **COMMITMENTS**

AS A RESULT OF COORDINATION WITH THE CITY OF CHAMPAIGN TO ALLOW THE CLOSURE OF KIRBY AVENUE FOR THESE REPAIRS, THE FOLLOWING SUMMARY OF COMMENTS SERVES AS A COMMITMENT TO THE CITY OF CHAMPAIGN:

- DETOUR SIGNING SHALL BE APPROPRIATELY POSTED
- SPRINGFIELD AVE (IL RTE 10) AND WINDSOR ROAD SHALL REMAIN OPEN FOR THE DURATION OF THE KIRBY AVENUE STRUCTURE REPAIRS
- THE CONTRACTOR SHOULD PLACE PORTABLE MESSAGE BOARDS ON EACH SIDE OF THE BRIDGE AT LEAST 5-DAYS IN ADVANCE OF THE CLOSURE TO ALERT MOTORISTS, PEDESTRIANS, BIKES, AND OTHER USERS OF THE KIRBY AVENUE ROAD CLOSURE.
- CONSTRUCTION SHOULD BE SCHEDULED DURING SUMMER MONTHS ONLY TO AVOID CONFLICTS WITH SCHOOL-YEAR TRAFFIC
- COORDINATE WITH CU-MTD
- MAINTAIN COORDINATION AND COMMUNICATION WITH CITY OF CHAMPAIGN ABOUT THE PROJECT

FILE NAME =	USER NAME : buckles,u	DESIGNED -	REVISED	-	i
c:\pwwork\pwidot\bucklesjj\d0265817\057	0924-sht-Gennote.dgn	DRAWN -	REVISED	~	i
	PLOT SCALE = 40.0000 17 10.	CHECKED -	REVISED		ĺ
	PLOT DATE = 10/5/2011	DATE	REVISED	-	i
		THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O		***************************************	

	STATE	0F	ILLINOIS	
DEPART	NENT	OF	TRANSPORTATION	

			INE	DEX OF SH	EETS,			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	HST	ΩF	STAN	DARDS &	GENIERA	NO.	TFS	57	(10-33HB)BDR	Champaign	27	2
	·				****					CONTRACT	NO.	70924
LE:	SHEET	NO.	OF	SHEETS	STA.	TQ	STA.		ILLINOIS FED. AIR	PROJECT		

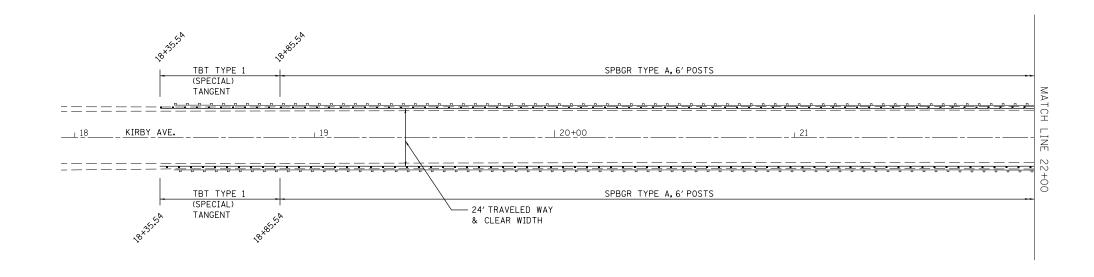
		HDD	A S 1				
	SUMMARY OF QUANTITIES	CHAMPA INTER: 100% ( MIN	I-57 AIGN CO. STATE STATE IOR CTURE PAIR				
	CODE NO ITEM	S.N. 01 <u>UNIT</u>	0-0103 QUANTITY				
	40600100 BITUMINOUS MATERIALS (PRIME COAT)	GALLON	53.0				
	40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	160.0				
	40603335 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	45.0				
	44201769 CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	36.0				
	50102400 CONCRETE REMOVAL	CUYD	12.3				
	50157300 PROTECTIVE SHIELD	\$Q YD	213.0				
	50300255 CONCRETE SUPERSTRUCTURE	CUYD	12.3				
	50300260 BRIDGE DECK GROOVING	SQ YD	533.0				
	50300300 PROTECTIVE COAT	SQ YD	38.0				
	50800205 REINFORCEMENT BARS, EPOXY COATED	POUND	300.0				
*	50900200 STEEL RAILING, TYPE 2399	FOOT	435.0				
*	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2037.5				
*	63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4.0				
*	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.0				
	63200310 GUARDRAIL REMOVAL	FOOT	2325.0				
	66101150 HOT-MIX ASPHALT SHOULDER CURB	FOOT	125.0				
	67100100 MOBILIZATION	LSUM	1.0				
	70100700 TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.0				
*	78001110 PAINT PAVEMENT MARKING - LINE 4"	FOOT	1700.0				
*	78200410 GUARDRAIL MARKERS, TYPE A	EACH	36.0				
*	78201000 TERMINAL MARKER - DIRECT APPLIED	EACH	4.0				
	X7015005 CHANGEABLE MESSAGE SIGN	CAL DA	24.0				
	Z0012130 BRIDGE DECK SCARIFICATION 3/4"	SQ YD	584.0				
	Z0012162 BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	584.0	·			
	Z0015595 DECK DRAIN EXTENSIONS	EACH	8.0				
	Z0015802 PLUG EXISTING DECK DRAINS	EACH	16.0				
	Z0016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	9.7				
	Z0016702 DETOUR SIGNING	L SUM	1.0				
	Z0041895 POLYMER CONCRETE	CUFT	2.3				
	* SPECIALTY ITEM						
	REVISED - REVISED - STATE OF ILLINOIS REVISED - DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUAN	TITIES	F.A.I. RTE. 57	SECTION (10-33HB)BDR	COUNTY Champaign CONTRACT

FILE NAME : USER NAME : bucklesjj DESIGNED 0924-sht-\$00.dgn DRAWN PLOT SCALE : 40,0000 1/ im. CHECKED REVISED -PLOT DATE = 10/5/2011 DATE

**DEPARTMENT OF TRANSPORTATION** 

٦			۰		DV 05 011			 F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
١			20	JIVIIVIA	RY OF QU	ANTHE	<b>S</b>	57	(10-33HB)BDR	Champaign	27	3
-						pan				CONTRACT	NO. 7	0924
	SCALE:	SHEET	NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	PROJECT		





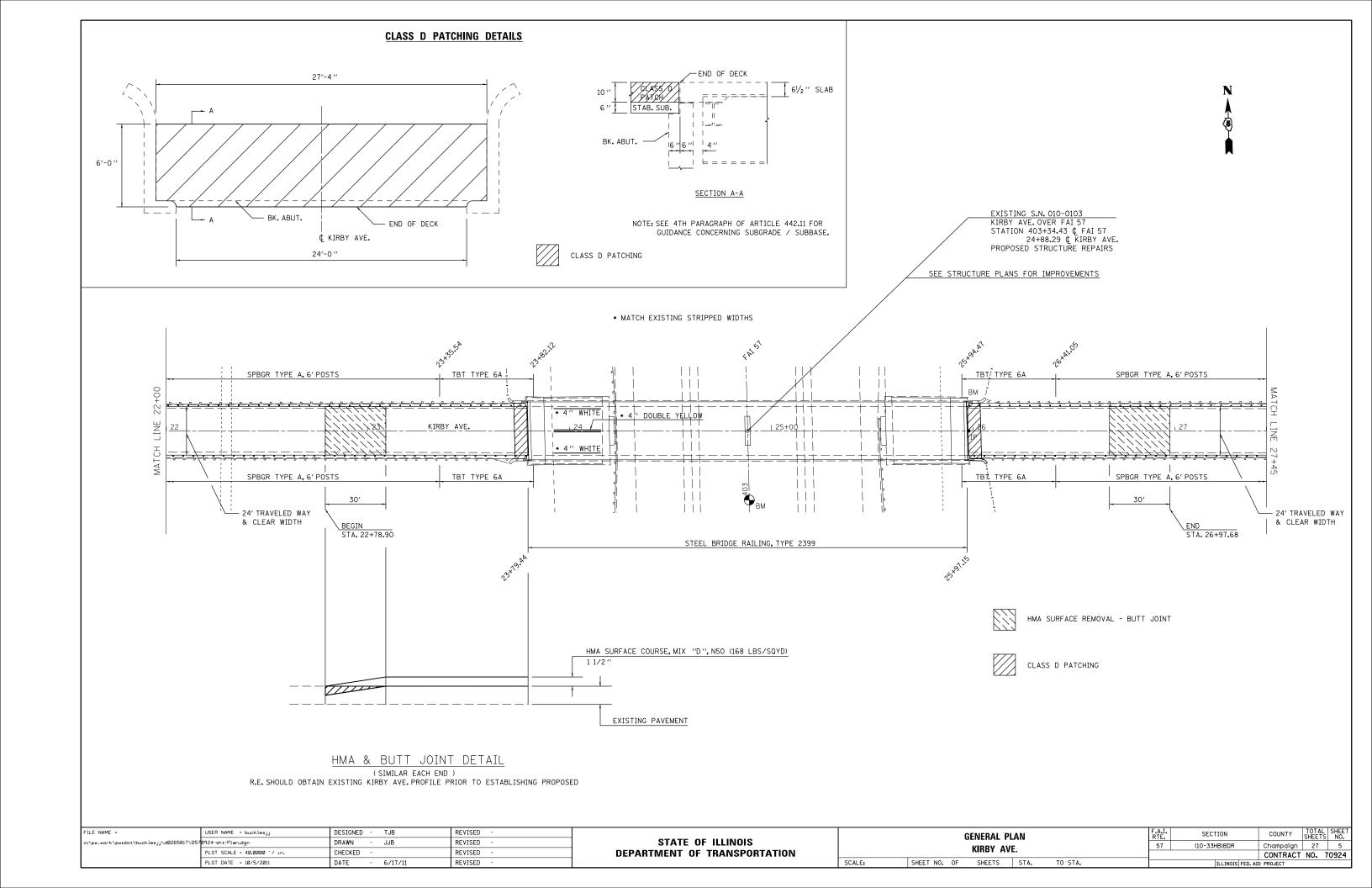
FILE NAME =	USER NAME = bucklesjj	DESIGNED	-	TJB	REVISED	-	
c:\pw_work\pwidot\bucklesjj\d0265817\D57	0924-sht-Plan.dgn	DRAWN	-	JJB	REVISED	-	
	PLOT SCALE = 40.0000 '/ in.	CHECKED	-		REVISED	-	
	PLOT DATE = 10/5/2011	DATE	-	6/17/11	REVISED	-	
							_

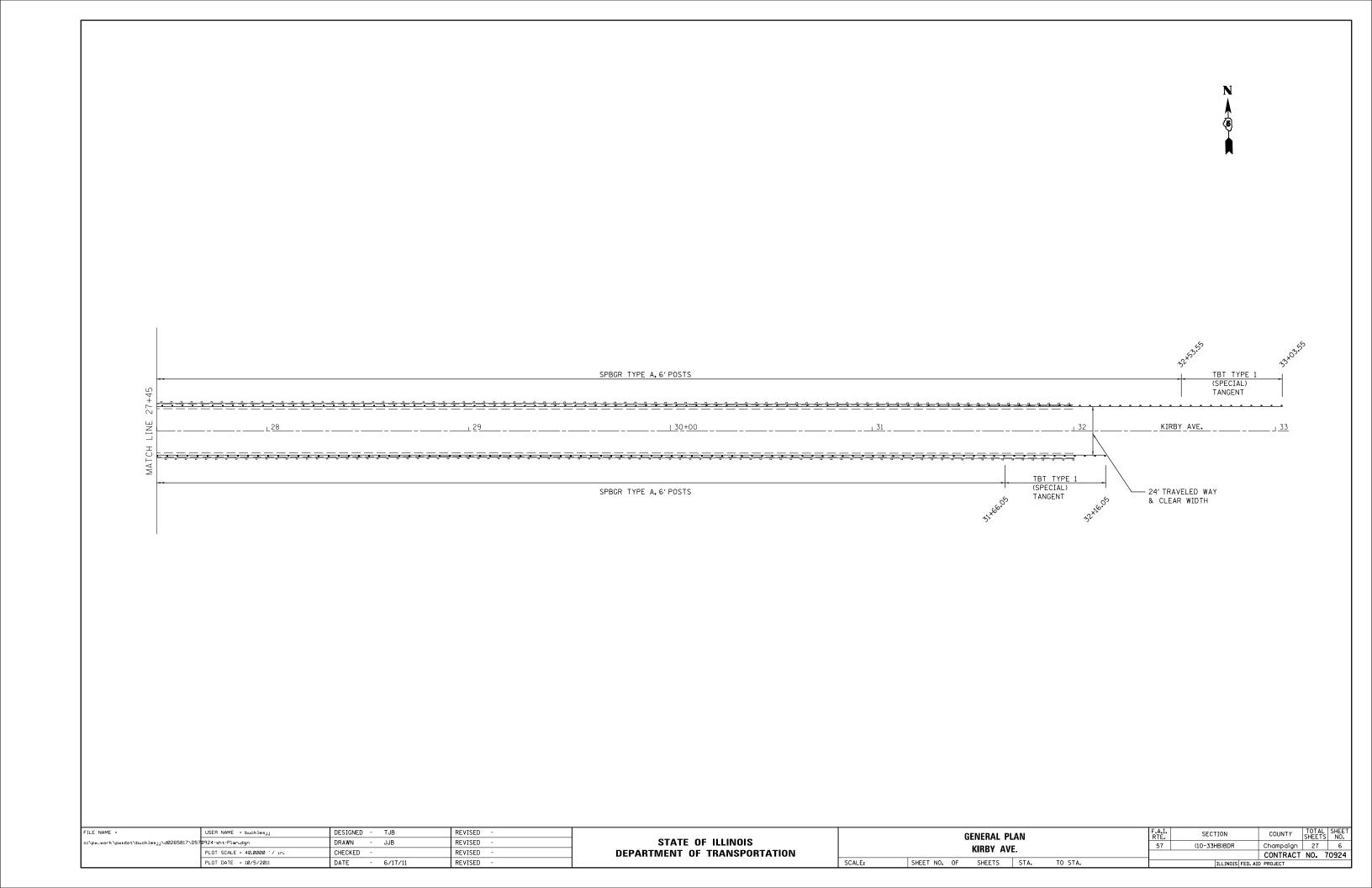
FILE NAME =

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

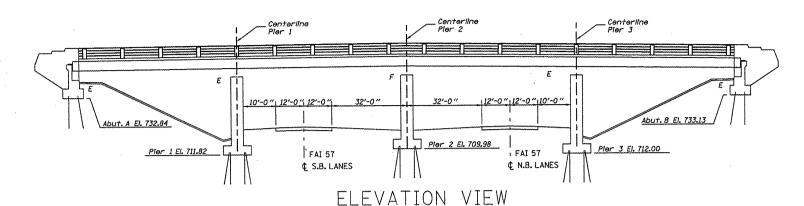
SCALE:

	0	ENERAL PL	AN		F.A. RTE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KIRBY AVE	:		57	57	(10-33HB)BDR	Champaign	27	4
		KINDI AVI	••					CONTRACT	NO. 7	0924
SHEET NO.	0F	SHEETS	STA.	TO STA.			ILLINOIS FED. A	D PROJECT		





# GENERAL PLAN & ELEVATION S.N. 010–0103



F.A.I. 57 STA. 403+34.43 219'-9 1/2" (BK. TO BK. ABUT.) 218'-9 1/2" (END TO END OF BRIDGE FLOOR) = LENGTH OF BRIDGE 67'-3 1/4" 40'-10" 60'-0" 67'-3 1/4" 40'-10" SPAN 4 SPAN 2 SPAN 1 ¢ PIER 2 STA. 24+88.29 88° 32′ 45 ′ ELEV. 742.45 5'-0" SHOULDER STATION 25+98.18 KIRBY AVE. 18'-0" APPROACH ROADWAY KIRBY AVE. STATION 23+78.40 ELEV. 741.62 5'-0" SHOULDER © PIER 3 STA. 24+21.02 MEDIAN MEDIAN STA. 25+55.56 ELEV. 742.28 ROADWAY ROADWAY ELEV. 742.10 DAVID CARL & N.B. LANES C S.B. LANES € FAI 57 PUZEY 081-005470 SPRINGFIELD **ILLINOIS** 

PLAN VIEW

THE EXISTING OVERHEAD STRUCTURE WAS BUILT IN 1963 AS FAI ROUTE 57, SECTION (10-33HB) AT STATION 403+34.43 IN CHAMPAIGN COUNTY. THE SUPERSTRUCTURE CONSISTS OF FIVE - 30" WF 108 ROLLED STEEL BEAMS SUPPORTING A 6 1/2" R.C. DECK. THE SUPERSTRUCTURE IS SUPPORTED BY TWO PILE BENT ABUTMENTS ON CONCRETE PILES AND THREE HAMMER HEAD PIERS ON SPREAD FOOTINGS. THE EXISTING STRUCTURE MEASURES 219'-91/2" FROM BACK TO BACK OF ABUTMENTS AND 29'-8" OUT TO OUT OF DECK. THE HORIZONTAL CLEARANCE IS 24'-0" FROM FACE TO FACE OF CURB.

SEE LIST OF PROPOSED IMPROVEMENTS ON THIS SHEET.

WORK SHALL BE COMPLETED UTILIZING ROAD CLOSURE OF KIRBY AVENUE AND STAGE CONSTRUCTION OF FAI 57.

#### PROPOSED IMPROVEMENTS

- 1. REPAIR EXISTING CONCRETE SUPERSTRUCTURE ALONG PARAPET/ SAFETY WALK.
- 2. BRIDGE DECK SCARIFICATION, 3/4".
- 3. FULL-DEPTH DECK PATCHING.
- 4. PLACEMENT OF PROPOSED MICRO SILICA CONCRETE WEARING SURFACE.
- 5. PLUG AND/OR EXTEND EXISTING DECK DRAINS.
- 6. COMPLETE HMA PATCHING AND RUNDOWNS ON KIRBY AVENUE.
- 7. COMPLETE GUARDRAIL IMPROVEMENTS ON STRUCTURE AND KIRBY AVENUE.

#### GENERAL NOTES

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 WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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 SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

PROTECTIVE COAT SHOULD BE APPLIED TO PARAPET / SAFETYWALK AREAS ONLY.

#### TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	12,3
PROTECTIVE SHIELD	SQ YD	213.0
CONCRETE SUPERSTRUCTURE	CU YD	12.3
BRIDGE DECK GROOVING	SQ YD	533.0
PROTECTIVE COAT	SQ YD	38.0
STEEL BRIDGE RAILING, TYPE 2399	FOOT	435.0
BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	584.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	584.0
DECK DRAIN EXTENSIONS	EACH	8.0
PLUG EXISTING DECK DRAINS	EACH	16.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	9.7
POLYMER CONCRETE	CU FT	2.3
REINFORCEMENT BARS, EPOXY COATED	POUND	300

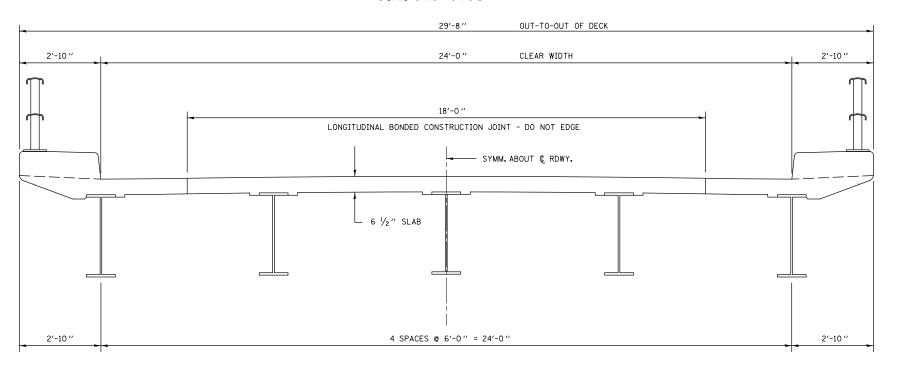
STATE: OF ILLINOIS DEPARTMENT: OF TRANSPORTATION GENERAL PLAN: & ELEVATION:
S.N. 010-0103

SHEET NO. OF SHEETS STA. TO

# EXISTING DECK CROSS SECTION

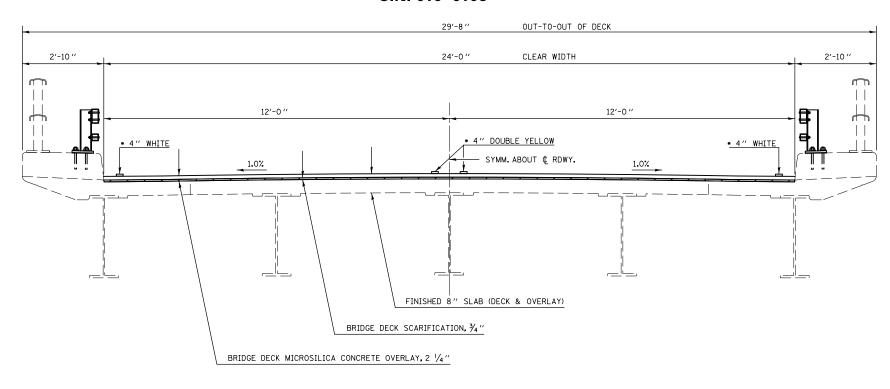
S.N. 010-0103

ROADWAY CROWN: 1" CIRCULAR CURVE FOR 10'EACH SIDE OF C, REMAINDER SLOPED @ .2" PER FT. TOTAL CROWN 1 3/6". (AVE. 0.97%)



# PROPOSED DECK CROSS SECTION

S.N. 010-0103



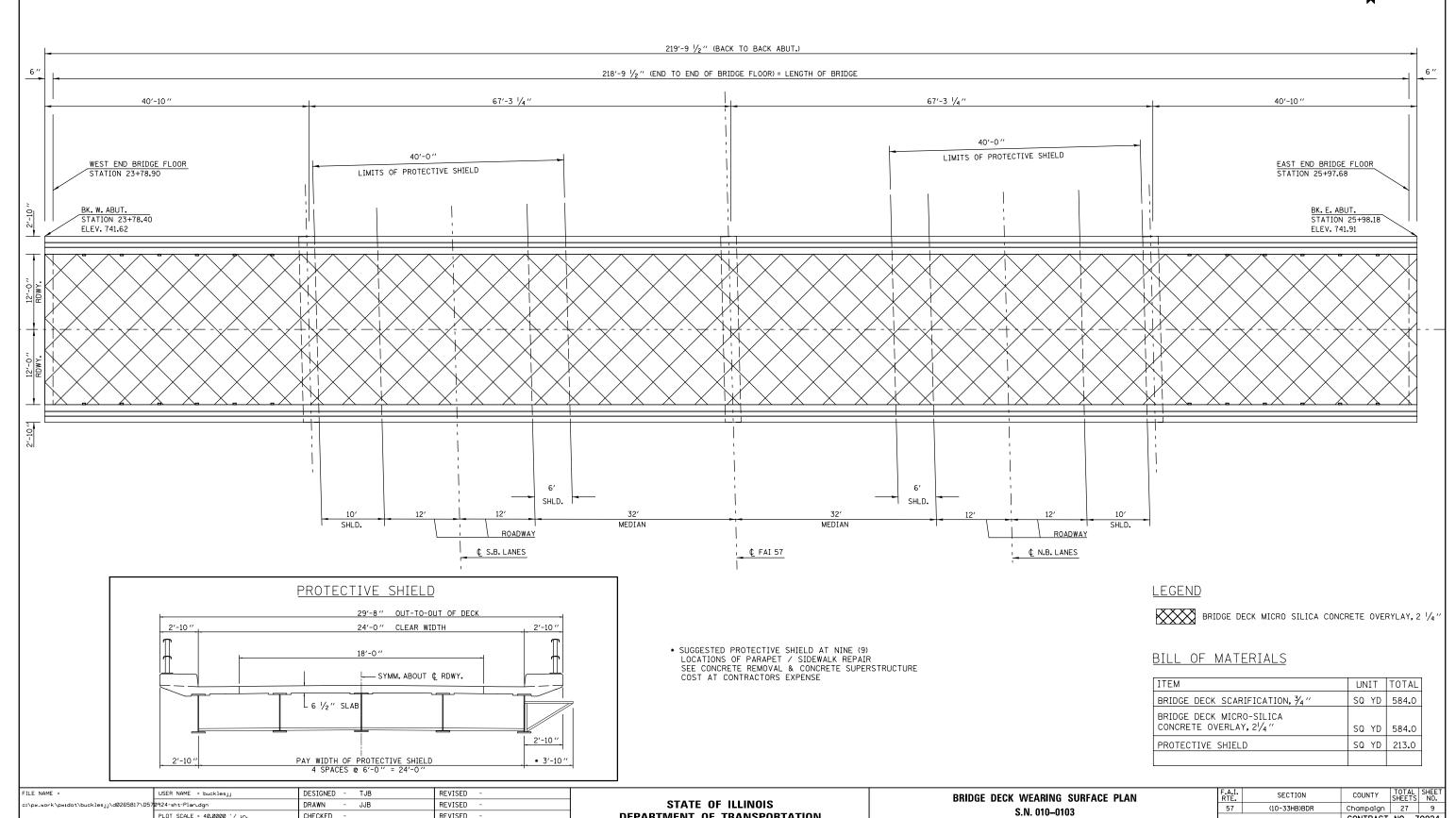
\* MATCH EXISTING STRIPPED WIDTHS

FILE NAME =	USER NAME = bucklesjj	DESIGNED - TJB	REVISED -		DECK CROSS SECTIONS S.N. 010-0103  SCALE: SHEET NO. OF SHEETS STA. TO STA.			SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\bucklesjj\d0265817\D5	70924-sht-Plan.dgn	DRAWN - JJB	REVISED -	STATE OF ILLINOIS				(10-33HB)BDR	Champaign 27 8
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 70924
	PLOT DATE = 10/5/2011	DATE - 6/17/11	REVISED -					ILLINOIS FED. AID PROJECT	

# **BRIDGE DECK WEARING SUFACE PLAN** S.N. 010-0103



CONTRACT NO. 70924



**DEPARTMENT OF TRANSPORTATION** 

SCALE:

SHEET NO. OF SHEETS STA.

TO STA.

CHECKED

- 6/17/11

DATE

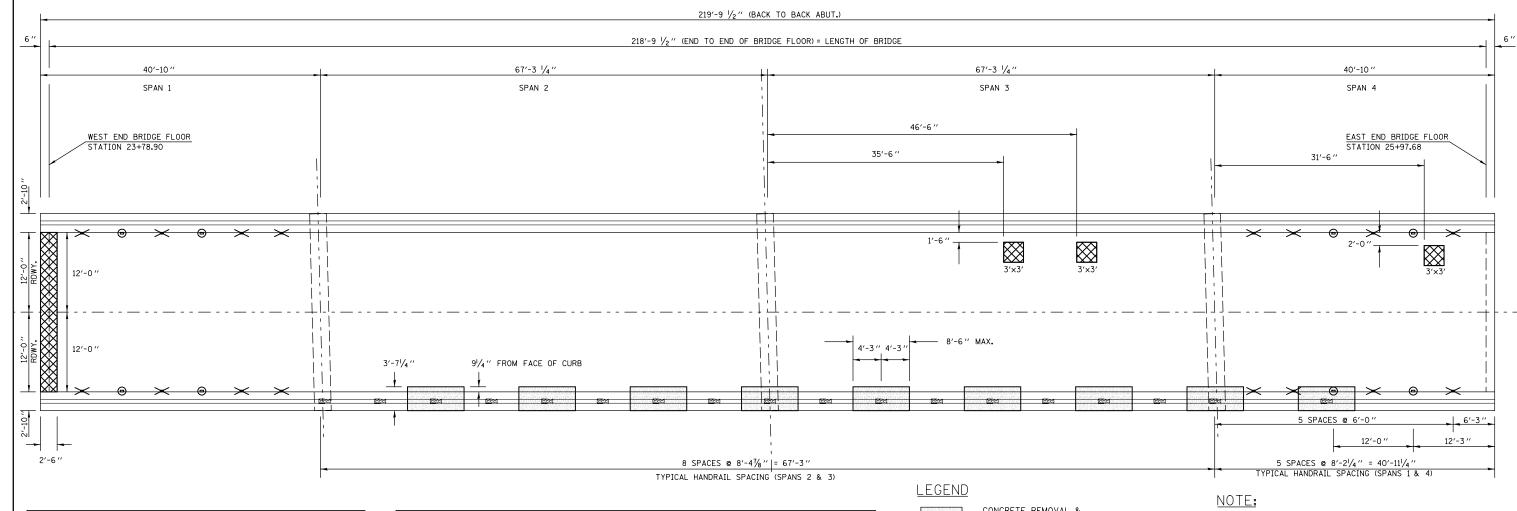
PLOT DATE = 10/5/2011

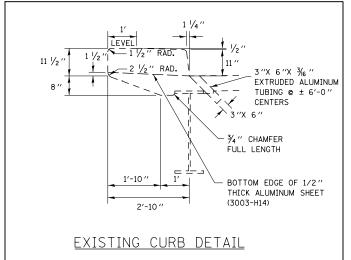
REVISED

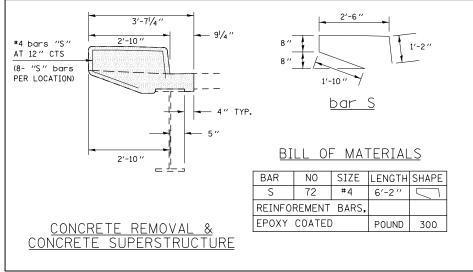
REVISED

# SUPERSTRUCTURE REPAIR PLAN S.N. 010-0103









CONCRETE REMOVAL & CONCRETE SUPERSTRUCTURE

DECK SLAB REPAIR, FULL-DEPTH

AAAA

PLUG EXISTING DECK DRAINS

DECK DRAIN EXTENSIONS

### BILL OF MATERIALS

SCALE:

ITEM	UNIT	TOTAL	
CONCRETE REMOVAL	CU YD	12.3	
CONCRETE SUPERSTRUCTURE	CU YD	12.3	
DECK SLAB REPAIR (FULL-DEPTH, TY II)	SQ YD	9.7	
PLUG EXISTING DECK DRAINS	EACH	16.0	
DECK DRAIN EXTENSIONS	EACH	8.0	
REINFORCEMENT BARS, EPOXY COATED	POUND	300.0	

EXISTING BARS SHALL BE REUSED, CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

PATCH SIZES SHOWN REPRESENT CONDITIONS AT THE TIME THE PLANS WERE COMPLETED. THE ACTUAL SIZES AND LOCATIONS OF PATCHING SHALL BE DETERMINED BY THE ENGINEER.

AREAS OF CONCRETE REMOVAL AND SUPERSTRUCTURE WERE IDENTIFIED JANUARY 19, 2011. SHOULD THE ENGINEER DETERMINE ADDITIONAL AREAS FOR REPAIR ADJACENT TO PROPOSED AREAS, REMOVAL AND REPLACEMENT SHALL BE STAGGERED. THE LENGTH OF REMOVAL IS LIMITED TO A 8'-6' MAXIMUM.

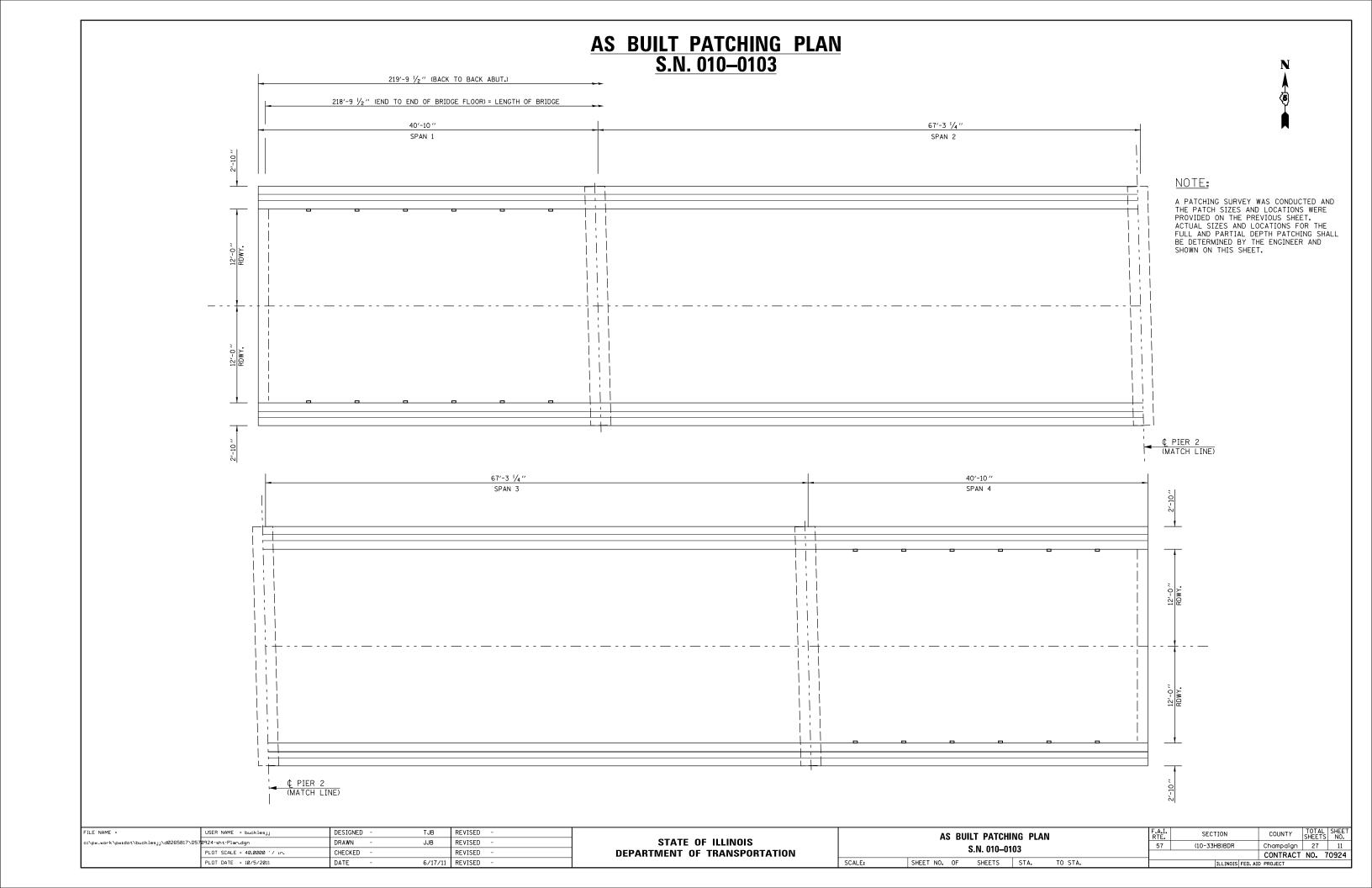
SEE DECK DRAIN EXTENSIONS AND PLUG EXISTING DECK DRAINS DETAILS.

EXISTING HANDRAIL SHALL BE REMOVED AND RE-ERECTED. COST INCLUDED WITH CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE. SEE HANDRAIL DETAILS FROM AS BUILT PLANS FOR RE-ERECTION.

FILE NAME =	USER NAME = bucklesjj	DESIGNED	-	IJB	REVISED -	
c:\pw_work\pwidot\bucklesjj\d0265817\D57	0924-sht-Plan.dgn	DRAWN	-	JJB	REVISED -	
PLOT SCALE = 40.0000 ' / in.		CHECKED	-		REVISED -	
		DATE	-	6/17/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPER STRUCTURE REPAIR PLAN	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 010-0103	57	(10-33HB)BDR	Champaign	27	10
3.14. 010-0103			CONTRACT	NO. 7	70924
SHEET NO. OF SHEETS STA. TO STA.	TILLINOIS FED ATD PROJECT				



# **PLUG EXISTING DECK DRAINS DETAIL SECTION AT EXISTING JOINT** 12-¾" Ø OPEN HOLES © 2'-0" CENTERS IN HORIZONTAL LEG 24-¾" Ø 8"X2" CR1020 STEEL GRANULAR OR SOLID FLUX FILL STUDS AUTOMATICALLY END WELDED. ALTERNATE © 1'-0" CENTERS. $\frac{\angle$ 4"X4"X $\frac{1}{2}$ " - 23'-10" LONG SHAPED TO CROWN OF RDWY. EXISTING DECK END OF SLAB e FASCIA BEAMS @ RT. / BACK OF ABUT. FIELD DRILL 3/8" DIA. HOLE FOR 1/4" DIA. THREADED ROD 13" LONG WITH NUTS AND WASHERS FOR EXISTING DECK DRAINS WITH EXTENSIONS, REMOVE THE BOTTOM PORTION OF EXISTING DRAIN. (COST INCLUDED WITH PLUG EXISTING DECK DRAINS)

# **SECTION AT PROPOSED JOINTS EAST ABUTMENT**

PLOT DATE = 10/5/2011

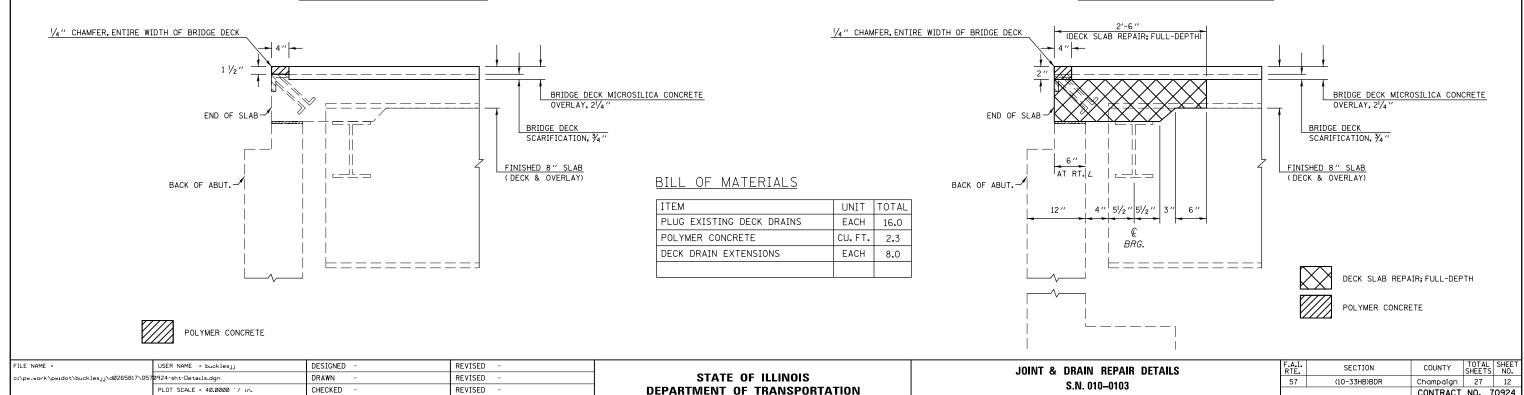
DATE

REVISED

# **SECTION AT PROPOSED JOINTS WEST ABUTMENT**

TO STA.

CONTRACT NO. 70924

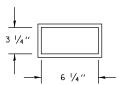


SCALE:

SHEET NO. OF SHEETS STA.

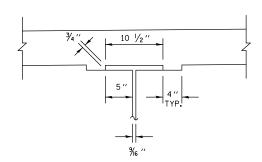
## **DECK DRAIN EXTENSION DETAIL**

3 %" X 6 %" X %6"
ALUMINUM DECK DRAIN EXTENSION (OUTSIDE DIMENSIONS)
DRAIN EXTENSION TO BE CONSTRUCTED OF 3\*16"
ALUMINUM SHEETS WELDED ASTM: B209 ALLOY 6061-T6 OR
ALUMINUM EXTRUSIONS ASTM: B221 ALLOY 6061-T6



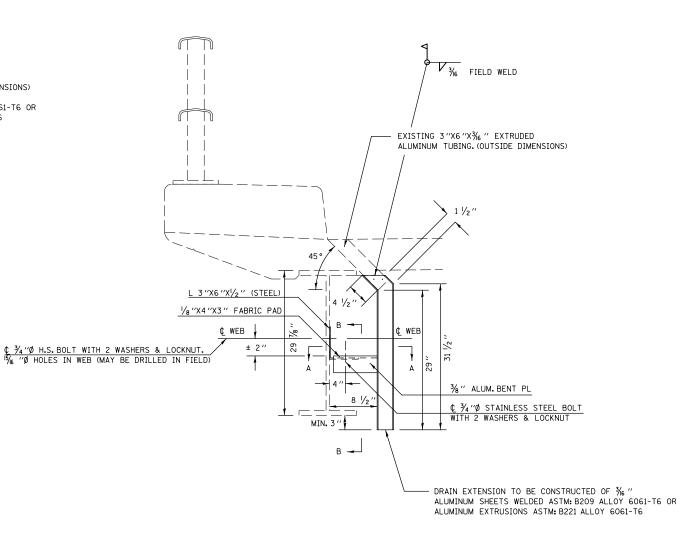
(INSIDE DIMENSIONS ARE SHOWN)

### ALUMINUM DECK DRAIN EXTENSIONS

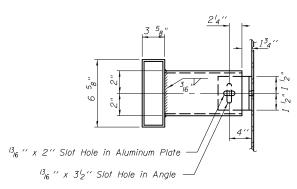


### EXISTING BEAM DIMENSIONS

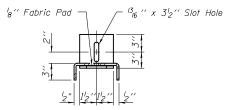
ALL BEAMS 30WF108



### SECTION AT PROPOSED DRAIN EXTENSION



SECTION A-A

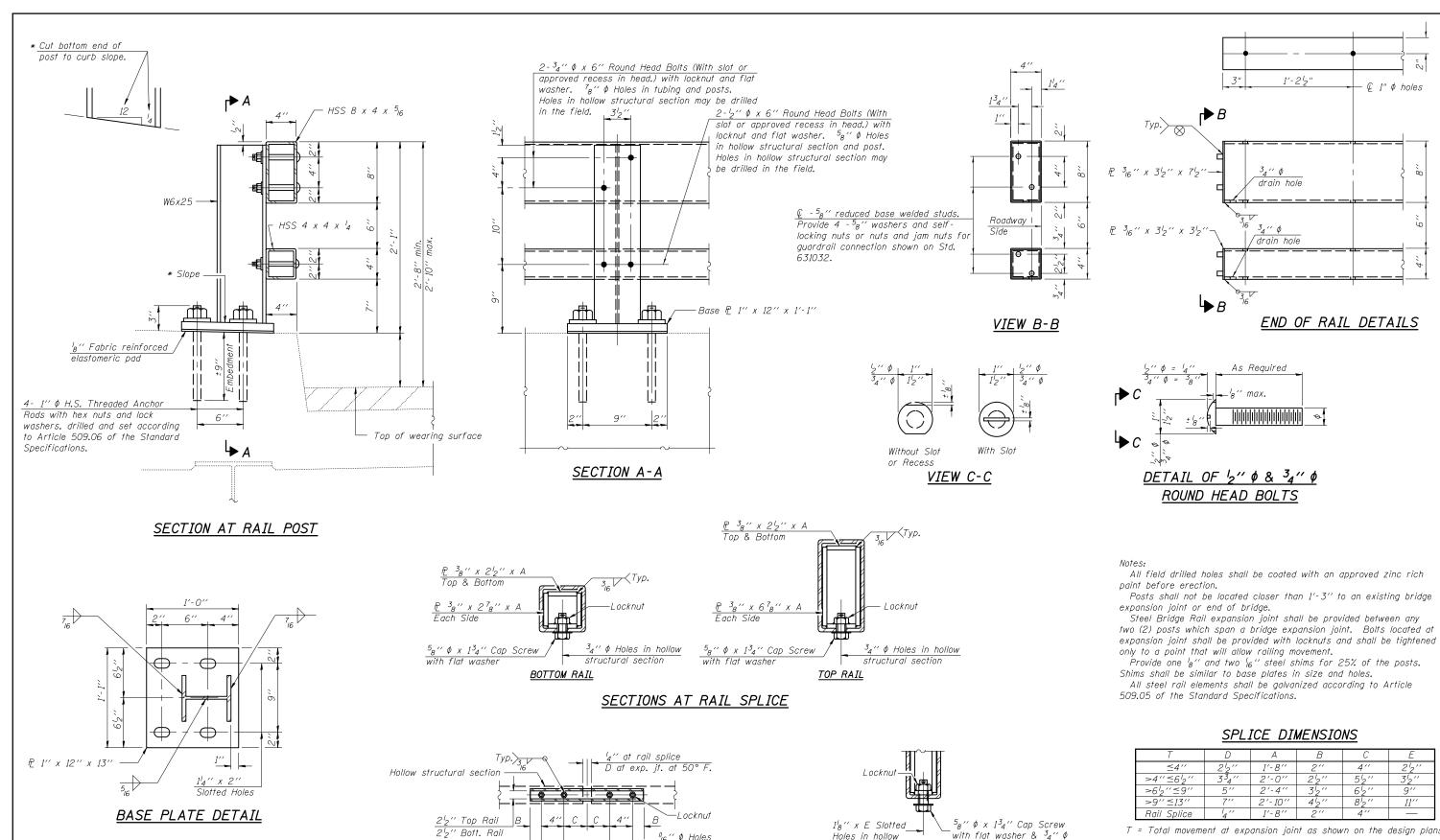


SECTION B-B

NOTES: THE EXTERIOR SURFACES OF THE FLOOR DRAINS SHALL BE PAINTED WITH THE FINISHED COAT AS SPECIFIED IN THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING NEW METAL STRUCTURES. THE EXTERIOR SURFACES OF THE DRAIN SHALL BE CLEANED AND GIVIN A WASHCOAT PRETREATMENT IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL'S SPEC. SSPC-SP1 & SSPC PAINT 27 PRIOR TO PAINTING

USE INORGANIC ZINC RICH PRIMER; ARTICLE 1008.02 FOR "L" BRACKET ATTACHMENT (3"X6"X $^{\prime\prime}_{Z}$ " STEEL) TO STEEL BEAM.

FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -		DECK DRAIN EXTENSION DETAIL S.N. 010-0103  SCALE: SHEET NO. OF SHEETS STA. TO STA.			SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\bucklesjj\dØ265817\D5	0924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				(10-33HB)BDR	Champaian 27 13
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 70924
	PLOT DATE = 10/5/2011	DATE -	REVISED -						D PROJECT



T	D	Α	В	С	Ε
≤4′′	212"	1'-8''	2"	4''	212"
>4'' \le 6\big _2''	334''	2'-0''	212"	5 <sup>1</sup> 2''	312''
>6 <sup>1</sup> 2′′≤9′′	5′′	2'-4''	3/2"	6½''	9′′
>9′′≤13′′	7''	2'-10''	412"	812''	11''
Rail Splice	4"	1'-8''	2"	4′′	

T = Total movement at expansion joint as shown on the design plans.

### BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	435.0

#### (6'-3'' Maximum Post Spacing)

R-31	7 - 1 - 10	(6'-3'' Maximum Post Spacing)							
FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -						
c:\pw_work\pwidot\bucklesjj\d0265817\D5	70924-sht-Details.dgn	DRAWN -	REVISED -						
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -						
	PLOT DATE = 10/5/2011	DATE -	REVISED -						

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

PLAN-BOTT. SPLICE PL

TYPICAL

			. RAILING, TY CTURE NO. (		
SHEET	NO.	OF	SHEETS	STA.	TO STA.

with flat washer & 34" \$\phi\$

XS pipe spacer,  $\frac{1}{2}$ " long.

Holes in hollow

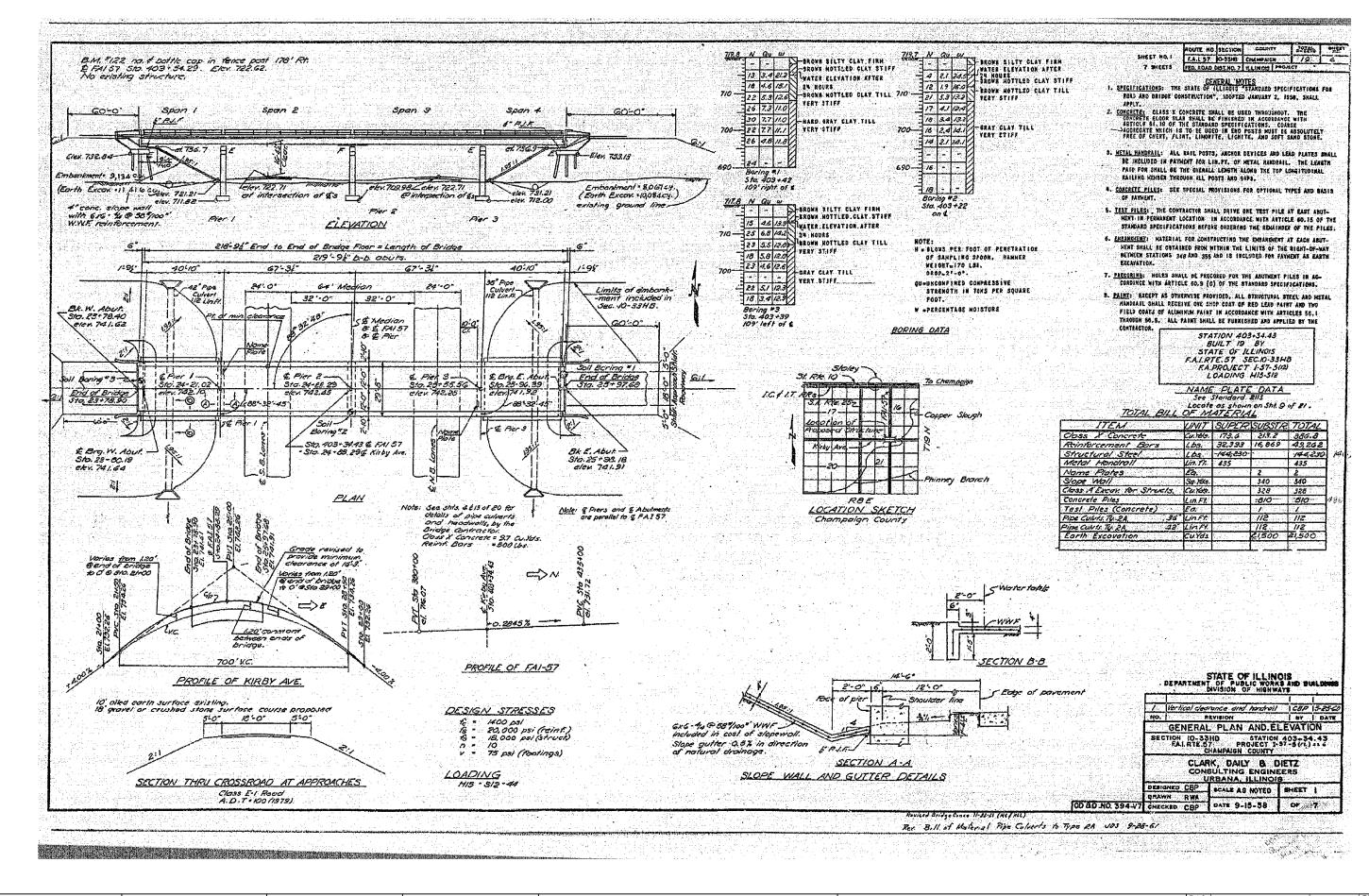
structural section

RAIL SPLICE CONNECTION

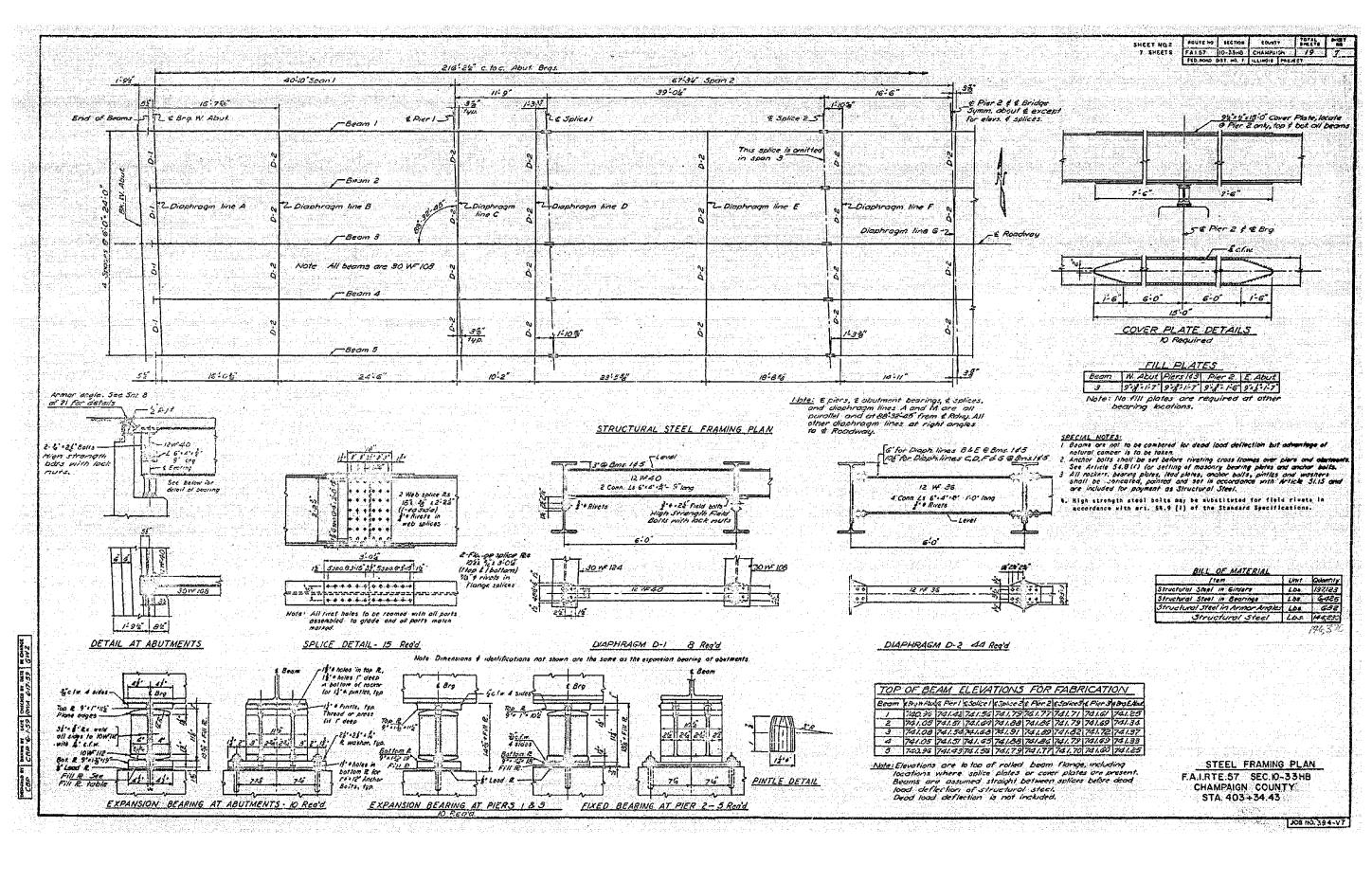
AT EXPANSION JT.

SCALE:

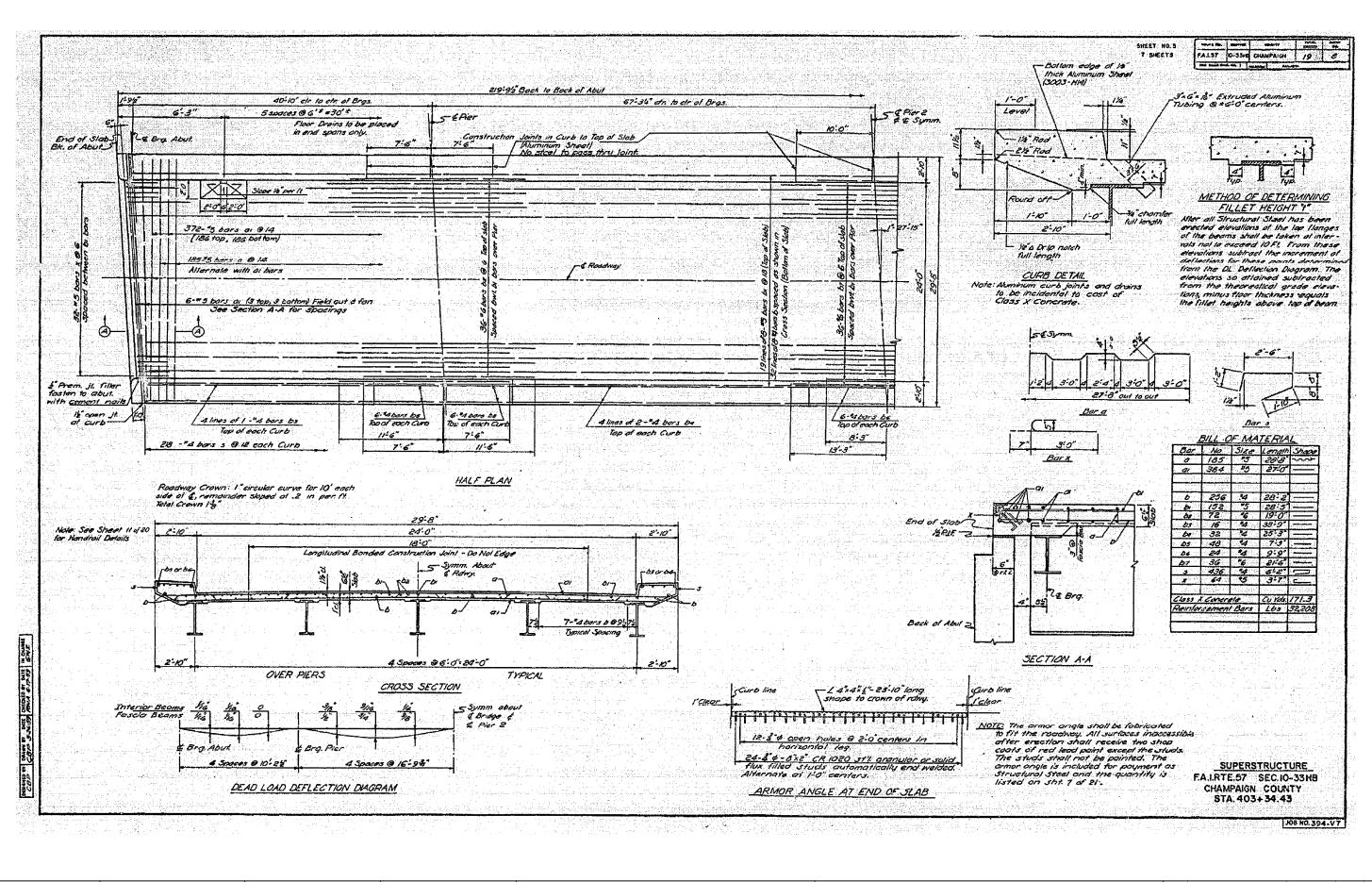
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
57	(10-33HB)BDR	Champaign	27	14
		CONTRACT	NO. 7	092
	TILL INOTS FED. AT	D PROJECT		



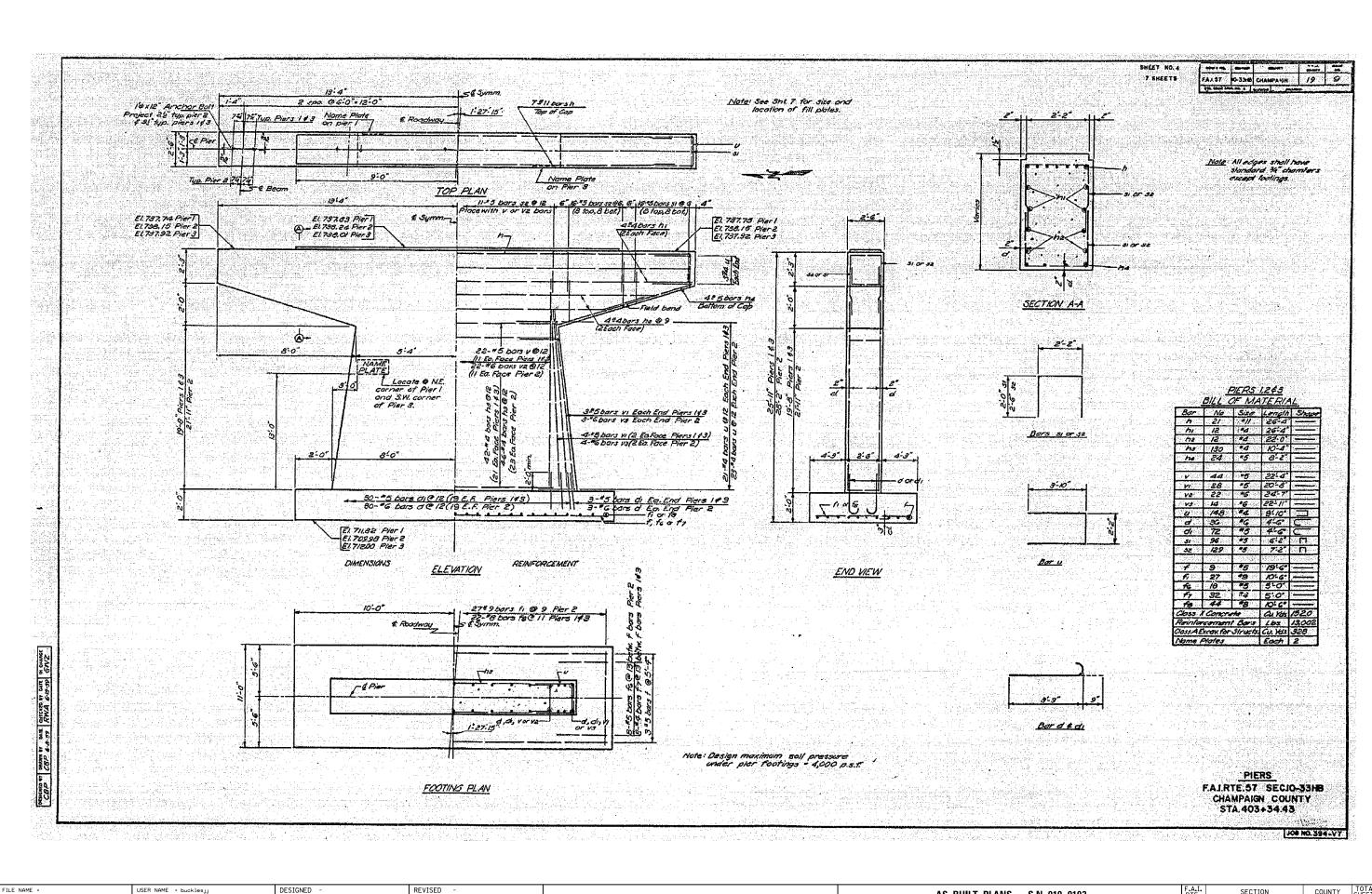
	FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -		AS-BUILT PLANS - S.N. 010-0103			F.A.I.	SECTION	COUNTY	SHEETS	SHEET		
	c:\pw_work\pwidot\bucklesjj\d0265817\D57	0924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				57	(10-33HB)BDR	Champaian	27	15		
		PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	ON FOR INFORMATION ONLY					CONTRACT	NO. 7	70924		
		PLOT DATE = 10/5/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	PROJECT		
l					DEPARTMENT OF TRANSPORTATION	SCALE:			STA.			ILLINOIS FED. AI			



FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -		AS-BUILT PLANS - S.N. 010-0103			SECTION		TAL SHEET
c:\pw_work\pwidot\bucklesjj\d0265817\D5	0924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		FOR INFORMATION ONLY	57	(10-33HB)BDR	Champaign 2	27 16
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FUK INFURMATION UNLY				CONTRACT NO	0. 70924
	PLOT DATE = 10/5/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT			

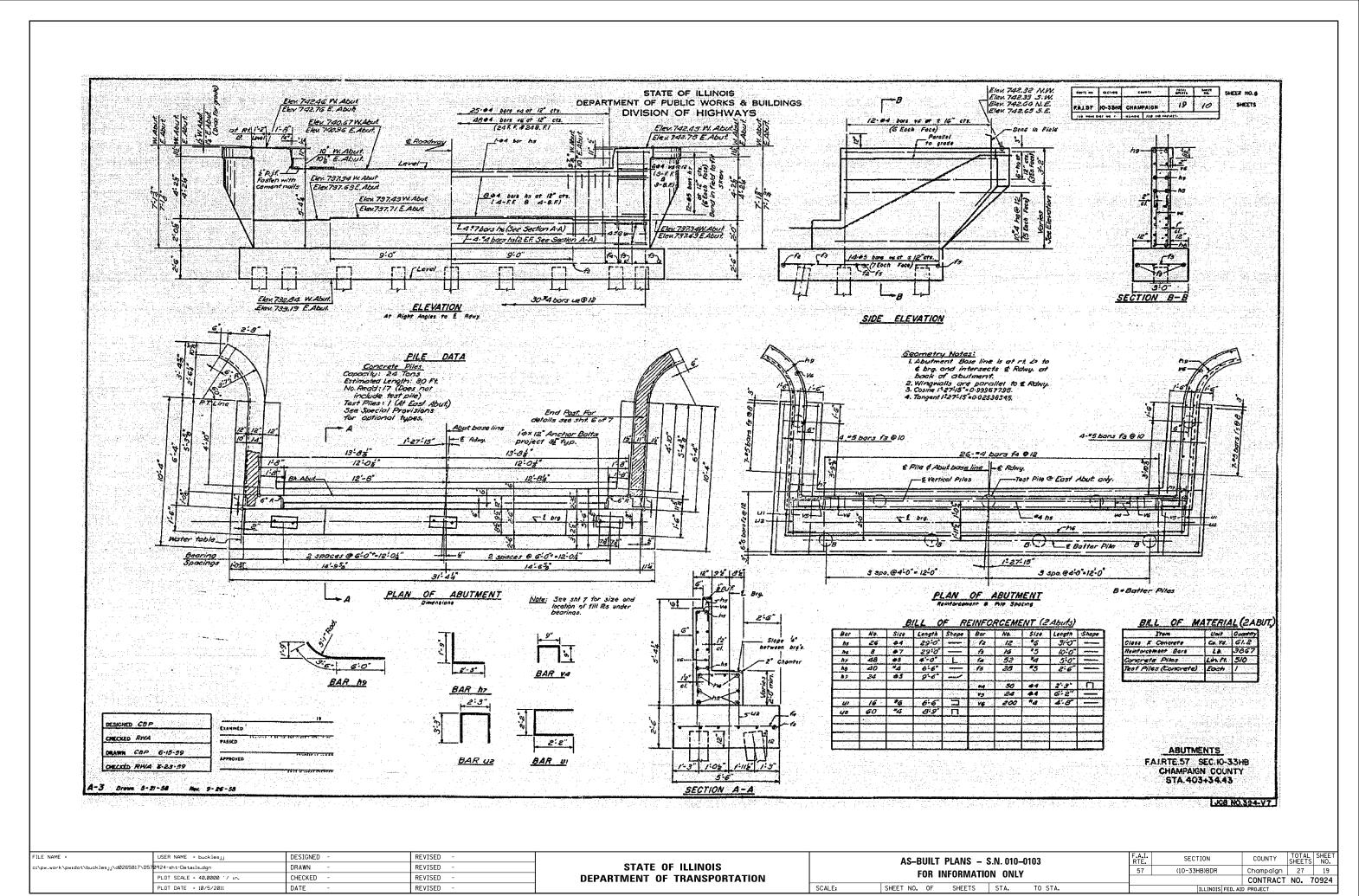


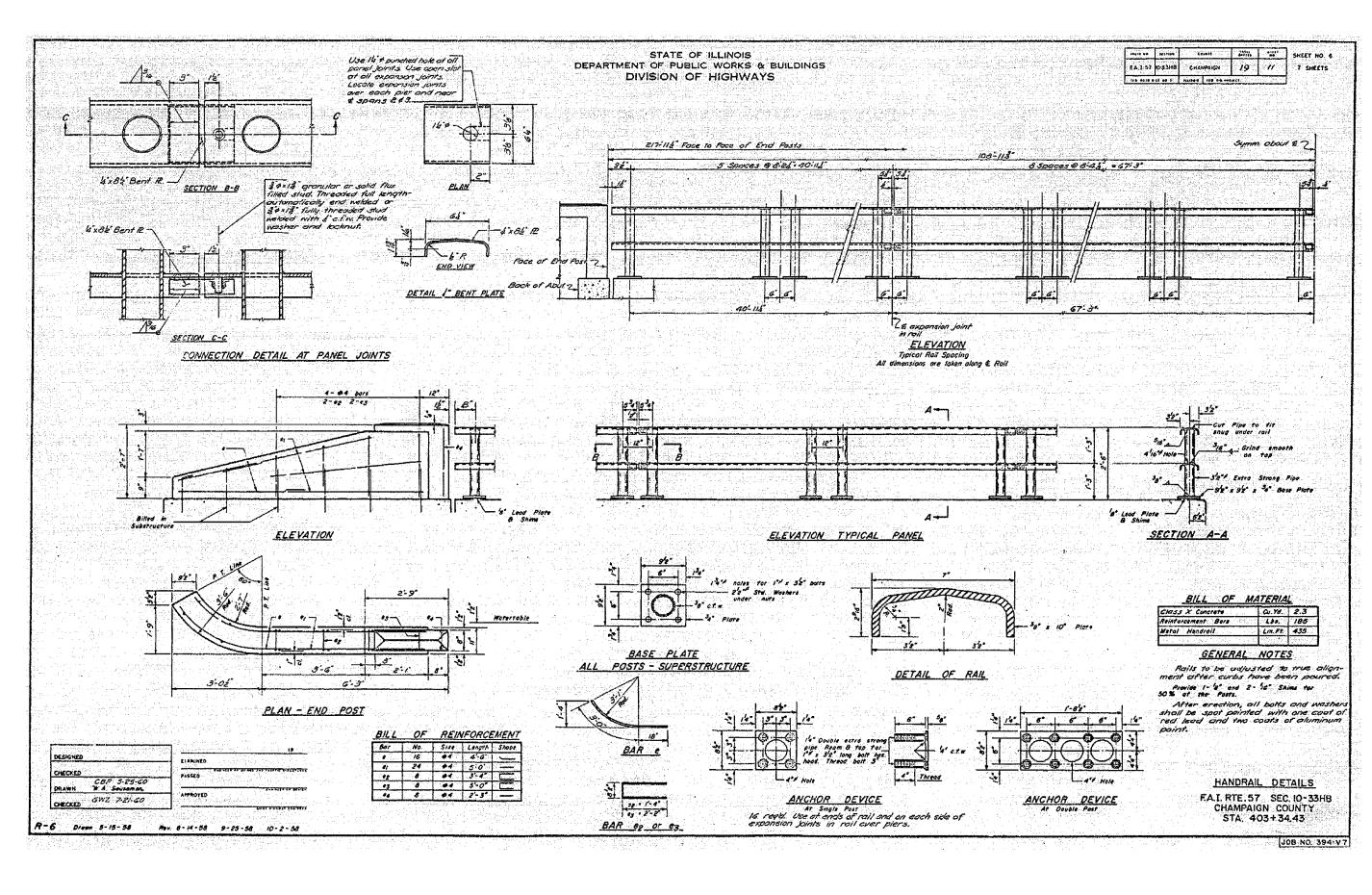
	FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -	CTATE OF HAMOIC	AS-BUILT PLANS - S.N. 010-0103		F.A.I. RTE.	SECTION	COUNTY S	TOTAL SHEET SHEETS NO.
	c:\pw_work\pwidot\bucklesjj\d0265817\D57	0924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		FOR INCORMATION ONLY		(10-33HB)BDR	Champaian	27 17
		PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR INFORMATION ONLY  SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT N	NO. 70924
L		PLOT DATE = 10/5/2011	DATE -	REVISED -					ILLINOIS FED. AID	PROJECT	



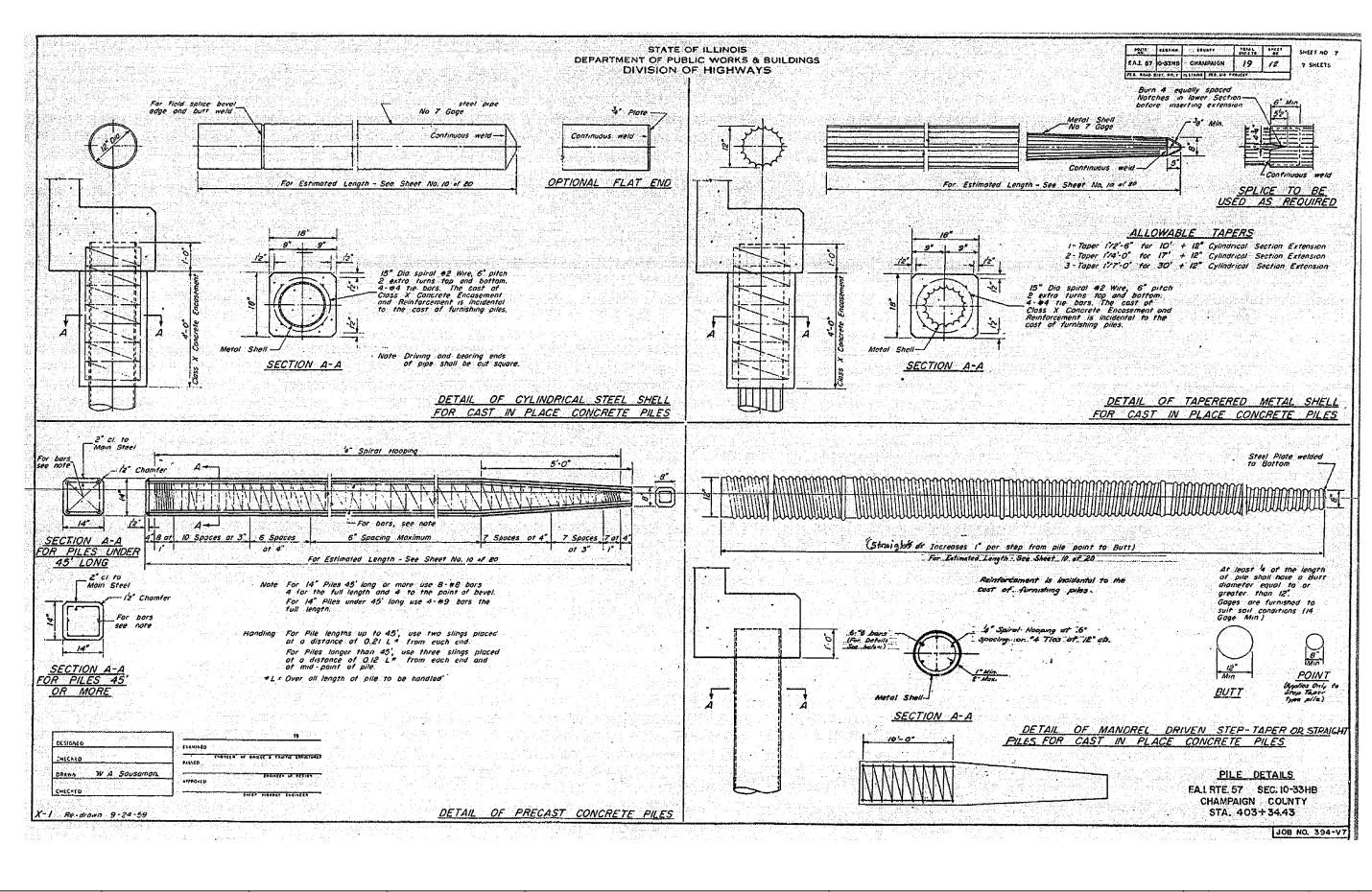
COUNTY TOTAL SHEET NO.

Champaign 27 18 SECTION AS-BUILT PLANS - S.N. 010-0103 STATE OF ILLINOIS c:\pw\_work\pwidot\buckles:i\d0265817\D570924-sht-Details.dan DRAWN REVISED 57 (10-33HB)BDR FOR INFORMATION ONLY PLOT SCALE = 40.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70924 SCALE: SHEET NO. OF SHEETS STA. DATE REVISED TO STA. PLOT DATE = 10/5/2011





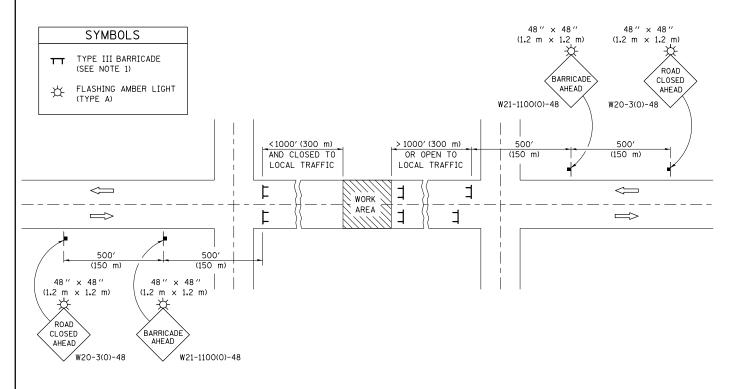
FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -			AS-BUILT PLANS - S.N. 010-0103		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\bucklesjj\d0265817\D5	70924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	FOR INFORMATION ONLY		57	(10-33HB)BDR	Champaign	
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FUN INFUNIWATION UNLY				CONTRACT	T NO. 70924
	PLOT DATE = 10/5/2011	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED.	AID PROJECT	



FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -	STATE OF ILLINOIS		AS-BUILT PLANS - S	N 010_0103	F.A.I.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\bucklesjj\d0265817\D57	0924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				57	(10-33HB)BDR	Champaign	27	21
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR INFORMATION		N UNLT			CONTRACT	NO.	70924
	PLOT DATE = 10/5/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

### **ROAD CLOSURE**

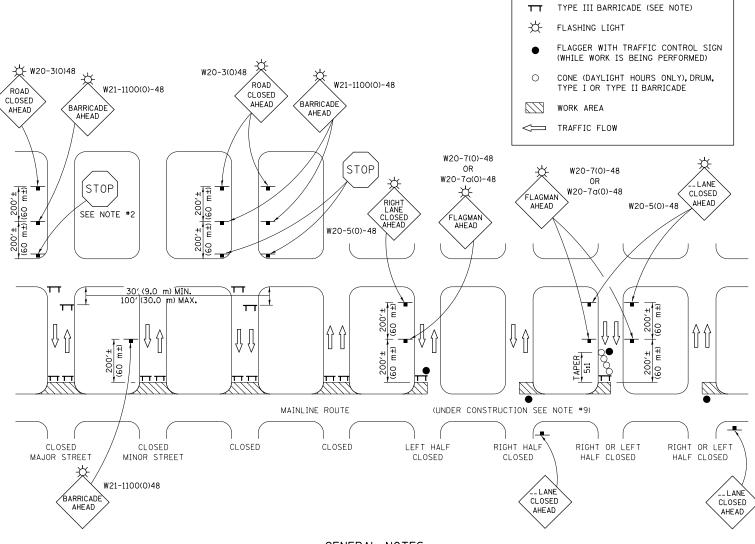
### SIDEROAD / STREET CLOSURE



#### GENERAL NOTES

- 1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- 2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK ARFA.
- 3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- 4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- 5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.

- 6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- 7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- 9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- 10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- 11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- 12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.



#### GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.

SCALE:

- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- 3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES
- 4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- 6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- 7. FORMS BT 725 AND BT 726 ARE REQUIRED.
- 8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.

SYMBOLS

9. ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

#### DISTRICT 5 DETAIL NO. 70200000

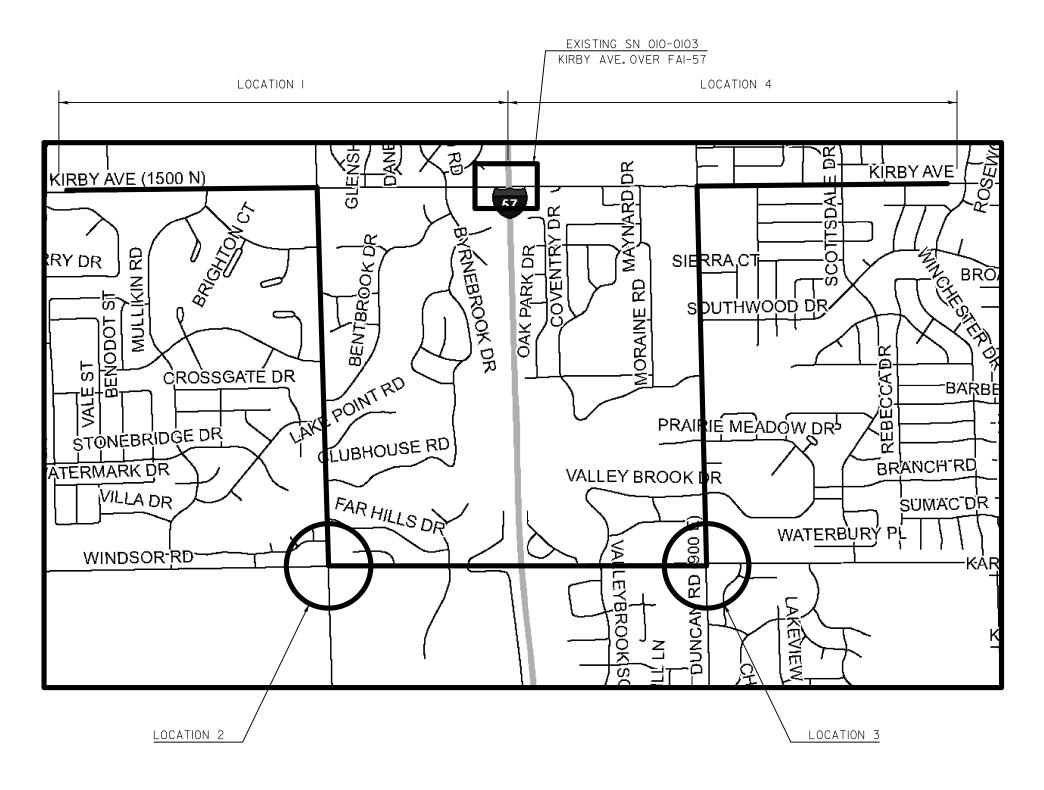
FILE NAME =	USER NAME = bucklesjj	DESIGNED -	KENIZED -	11/06
c:\pw_work\pwidot\bucklesjj\d0265817\D57	3924-sht-Details.dgn	DRAWN -	REVISED -	12/07
PLOT SCALE = 40.0000 '/ in.		CHECKED -	REVISED -	09/09 - KJT
	PLOT DATE = 10/5/2011	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD/STREET CLOSURES)

SHEET NO. OF SHEETS STA. TO STA.

## MARKED LOCAL DETOUR FOR KIRBY AVE.



FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -				F.A.	.I. SECTION		TOTAL SHEET
c:\pw_work\pwidot\bucklesjj\d0265817\D5	57 <mark>2</mark> 924-sht-Details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	DETOUR SIGNING			7 (10-33HB)BDR	Champaian	27 23
	PLOT SCALE = 40.0000 '/ in.		REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 70924
	PLOT DATE = 10/5/2011	DATE -	REVISED -		SCALE:	SHEET NO.1 OF 5 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

