

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	1
		ILLINOIS	CONTRACT NO. 74615	

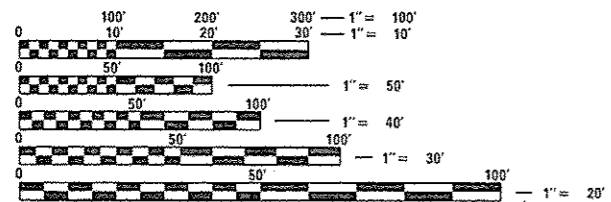
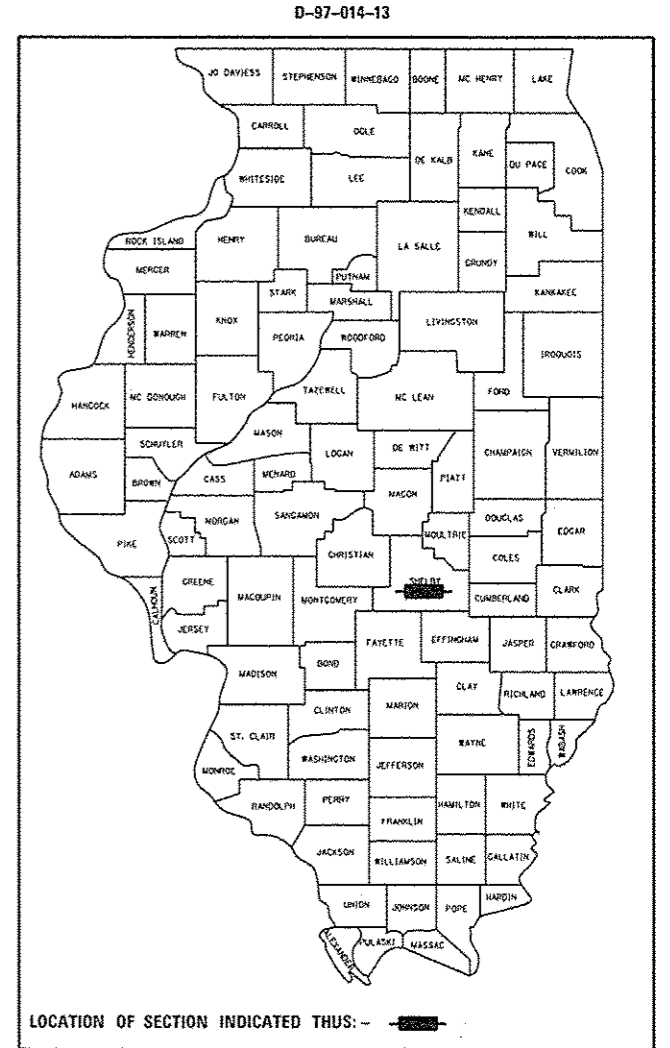
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 325 (IL 16)
SECTION (11B-1)BR
PROJECT F-0325(059)
BRIDGE REPAIR
SHELBY COUNTY

C-97-057-13

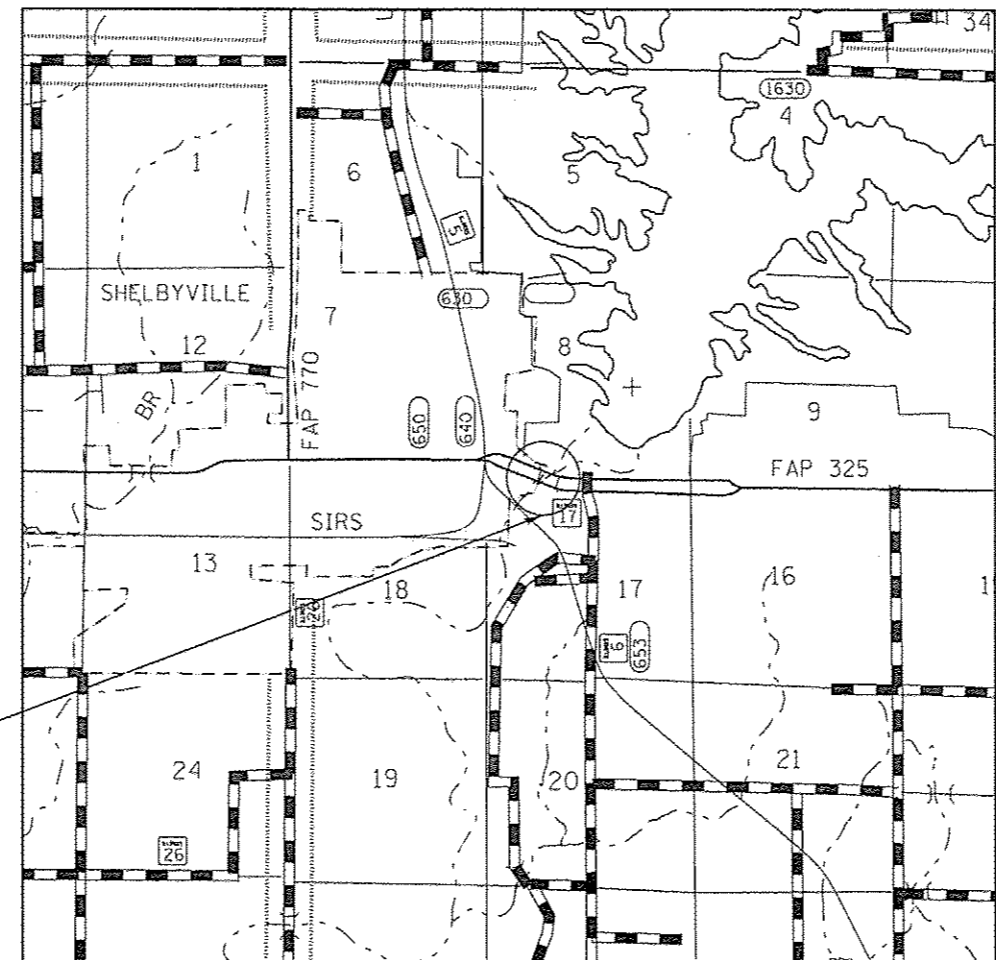
ADT (2009) = 4,755



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

S. N. 087-0020
STA 108+77.95



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 28 2013
Roger L. Driskell, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

April 26 2013
John D. Baranecchi, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

April 26 2013
Cher Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: MARK DAUGHERTY
PROJECT MANAGER: BRIAN BIERMAN

CONTRACT NO. 74615

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE REFLECTIVE LENS OF ALL RAISED REFLECTIVE PAVEMENT MARKERS IN CONFLICT WITH THE STAGE TRAFFIC CONTROL SHALL BE REMOVED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFLECTOR REMOVAL.

MATERIAL EXCAVATED FROM MEDIAN SHALL BE STOCKPILED AND REPLACED AT COMPLETION OF STAGE CONSTRUCTION WORK. COST OF EXCAVATION, STOCKPILING, AND REPLACEMENT OF EXCAVATED MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE FOR PORTLAND CEMENT CONCRETE BASE COURSE 9".

FIELD MARKINGS OF UNDERGROUND UTILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J. U. L. I. E. SYSTEM BY CALLING 800-892-0123.

THE TOTAL QUANTITY OF PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4" CONSISTS OF 625 FEET OF WHITE AND 500 FEET OF YELLOW.

THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS IS 8 ONE-WAY CRYSTAL.

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, LIST OF STANDARDS
3-4	SUMMARY OF QUANTITIES
5	SCHEDULES
6	STAGING TYPICAL
7-8	STAGE 1 CONSTRUCTION DETAILS
9-10	STAGE 2 CONSTRUCTION DETAILS
11	BICYCLE RAILING
12-15	TYPICAL APPLICATIONS OF PAVEMENT MARKING
16-32	STRUCTURAL SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-07	PAVEMENT JOINTS
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701426-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >= 45 MPH
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\p\dott\stefennk\8187065\07	4615-shl-gemote.dgn	DRAWN	REVISED				325	(118-118R)	SHELBY	32	2
Default	PLOT SCALE	CHECKED	REVISED				CONTRACT NO. 74615				
	PLOT DATE	DATE	REVISED				ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FED 20% ST		
25100630	EROSION CONTROL BLANKET	SQ YD	630	630		
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	196	196		
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	1141	1141		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2024	2024		
50102400	CONCRETE REMOVAL	CU YD	24.3	24.3		
50157300	PROTECTIVE SHIELD	SQ YD	1709	1709		
50300100	FLOOR DRAINS	EACH	30	30		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	42.8	42.8		
50300260	BRIDGE DECK GROOVING	SQ YD	1351	1351		
50300300	PROTECTIVE COAT	SQ YD	250	250		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9200	9200		
50800515	BAR SPLICERS	EACH	12	12		
50901750	PARAPET RAILING	FOOT	262	262		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	230	230		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FED 20% ST		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	3406	3406		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25	25		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	407	407		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	5		
67100100	MOBILIZATION	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20		
* 78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	1125	1125		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8		
* 78100300	REPLACEMENT REFLECTOR	EACH	30	30		

* SPECIALTY ITEM

26

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FED 20% ST		
* 78200300	PRISMATIC CURB REFLECTOR	EACH	12	12		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
X0325299	INLET MODIFICATION	EACH	6	6		
X0326519	STEEL RAILING REMOVAL	FOOT	530	530		
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.14	0.14		
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	3406	3406		
X5091725	BICYCLE RAILING, SPECIAL	FOOT	93	93		
X6061306	CONCRETE CURB, TYPE M (SPECIAL)	FOOT	2024	2024		
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	2	2		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14	14		
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	30	30		
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1125	1125		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FED 20% ST.		
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	1432	1432		
Z0012110	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/4"	SO YD	1432	1432		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SO YD	1432	1432		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	3392	3392		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	1	1		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	168	168		

*SPECIALTY ITEM

FILE NAME :	USER NAME : steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\steffennk\2013\7065-07	*615-shr-req.dgn	DRAWN -	REVISED -			325	(11B-1)BR	SHELBY	32	4	
Default	PLOT SCALE = 100.0000 1/1 in.	CHECKED -	REVISED -			CONTRACT NO. 74615		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/28/2013	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

COMBINATION CURB AND GUTTER REMOVAL					
STA	98+47	TO	STA	104+26	1158 FT
STA	114+70	TO	STA	116+41	342 FT
STA	117+05	TO	STA	119+67	524 FT
				TOTAL	2024 FT

EROSION CONTROL BLANKET					
STA	99+39	TO	STA	101+56	233 SQ YD
STA	114+70	TO	STA	116+41	318 SQ YD
STA	118+87	TO	STA	119+67	79 SQ YD
				TOTAL	630 SQ YD

CONCRETE MEDIAN SURFACE REMOVAL					
STA	98+47	TO	STA	99+39	657 SQ FT
STA	101+56	TO	STA	104+26	1334 SQ FT
STA	117+05	TO	STA	118+87	1415 SQ FT
				TOTAL	3406 SQ FT

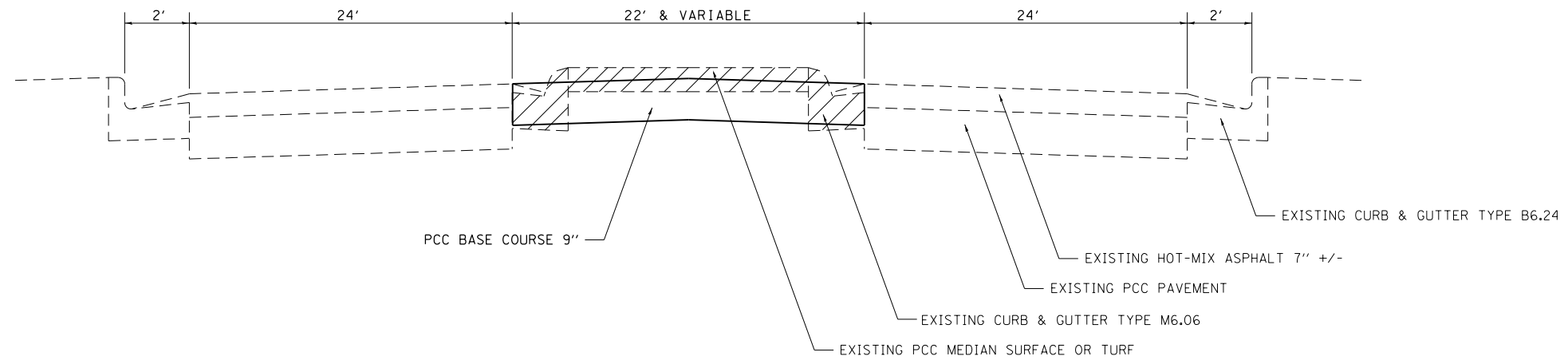
CONCRETE MEDIAN SURFACE 4"					
STA	98+47	TO	STA	99+39	657 SQ FT
STA	101+56	TO	STA	104+26	1334 SQ FT
STA	117+05	TO	STA	118+87	1415 SQ FT
				TOTAL	3406 SQ FT

PCC BASE COURSE 9"					
STA	98+47	TO	STA	104+26	529 SQ YD
STA	114+70	TO	STA	116+41	341 SQ YD
STA	117+05	TO	STA	119+67	271 SQ YD
				TOTAL	1141 SQ YD

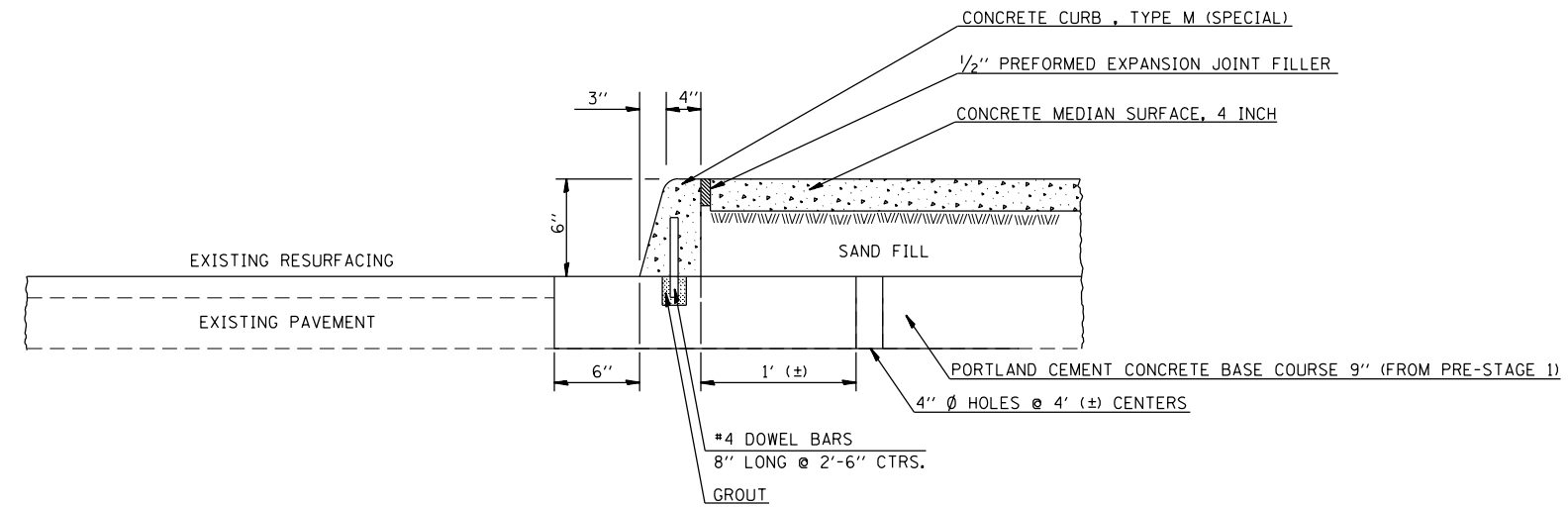
SEEDING, CLASS 2 (SPECIAL)					
STA	99+39	TO	STA	101+56	0.05 ACRE
STA	114+70	TO	STA	116+41	0.07 ACRE
STA	118+87	TO	STA	119+67	0.02 ACRE
				TOTAL	0.14 ACRE

GUARDRAIL SCHEDULE											
STATION TO STATION				STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	GUARDRAIL REMOVAL	GUARDRAIL MARKER, TYPE A	TERMINAL MARKER - DIRECT APPLIED	BICYCLE RAILING, SPECIAL	
				FT	EACH	EACH	FT	EACH	EACH	FOOT	
RT STA	106+09	TO	RT STA	107+15	12.5	1	1	102	2	1	-
RT STA	109+80	TO	RT STA	110+83	-	-	-	103	-	-	-
LT STA	106+77	TO	LT STA	107+78	-	-	-	101	-	-	-
LT STA	110+42	TO	LT STA	111+48	12.5	1	1	101	2	1	93
TOTALS:				25	2	2	407	4	2	93	

INLET MODIFICATION	
STA	101+56
STA	115+00
STA	115+47
STA	117+24
STA	118+98
STA	119+17
TOTAL	6



PRE-STAGE 1



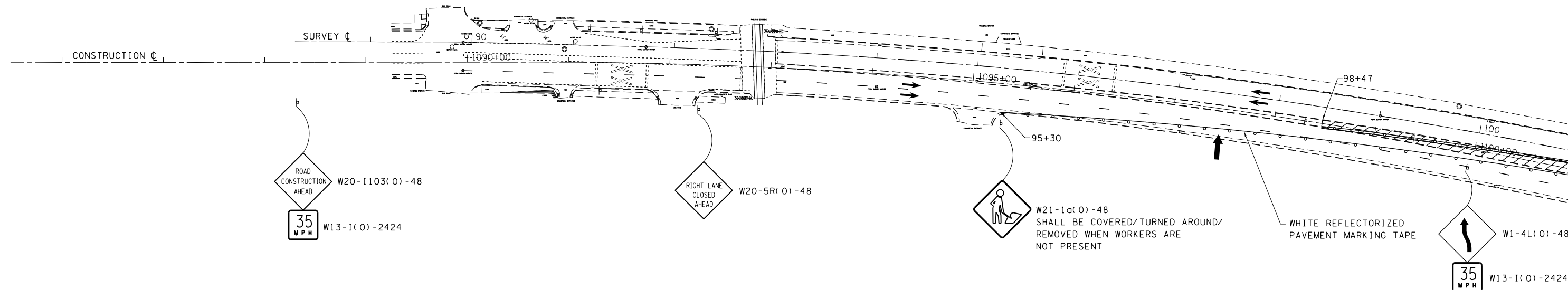
DETAIL OF CONCRETE CURB, TYPE M (SPECIAL)
(POST-STAGE 2)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ci:\pw\work\p\idot\stefjenmk\d0187065\074615-sh1-detail.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING TYPICAL			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

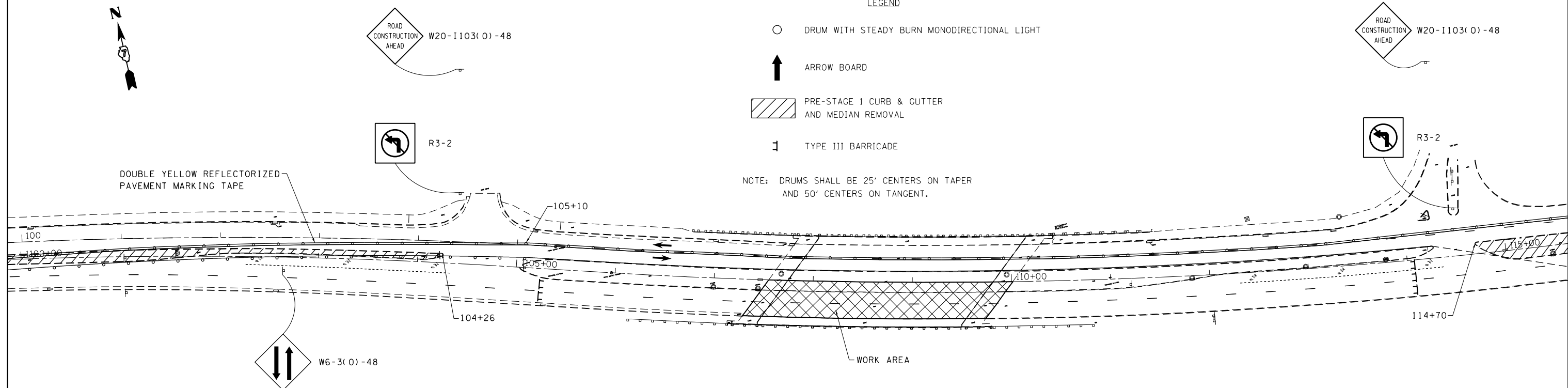
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	6
CONTRACT NO.			74615	
ILLINOIS FED. AID PROJECT				



LEGEND

- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ↑ ARROW BOARD
- ▨ PRE-STAGE 1 CURB & GUTTER AND MEDIAN REMOVAL
- ⌊ TYPE III BARRICADE

NOTE: DRUMS SHALL BE 25' CENTERS ON TAPER AND 50' CENTERS ON TANGENT.



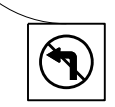
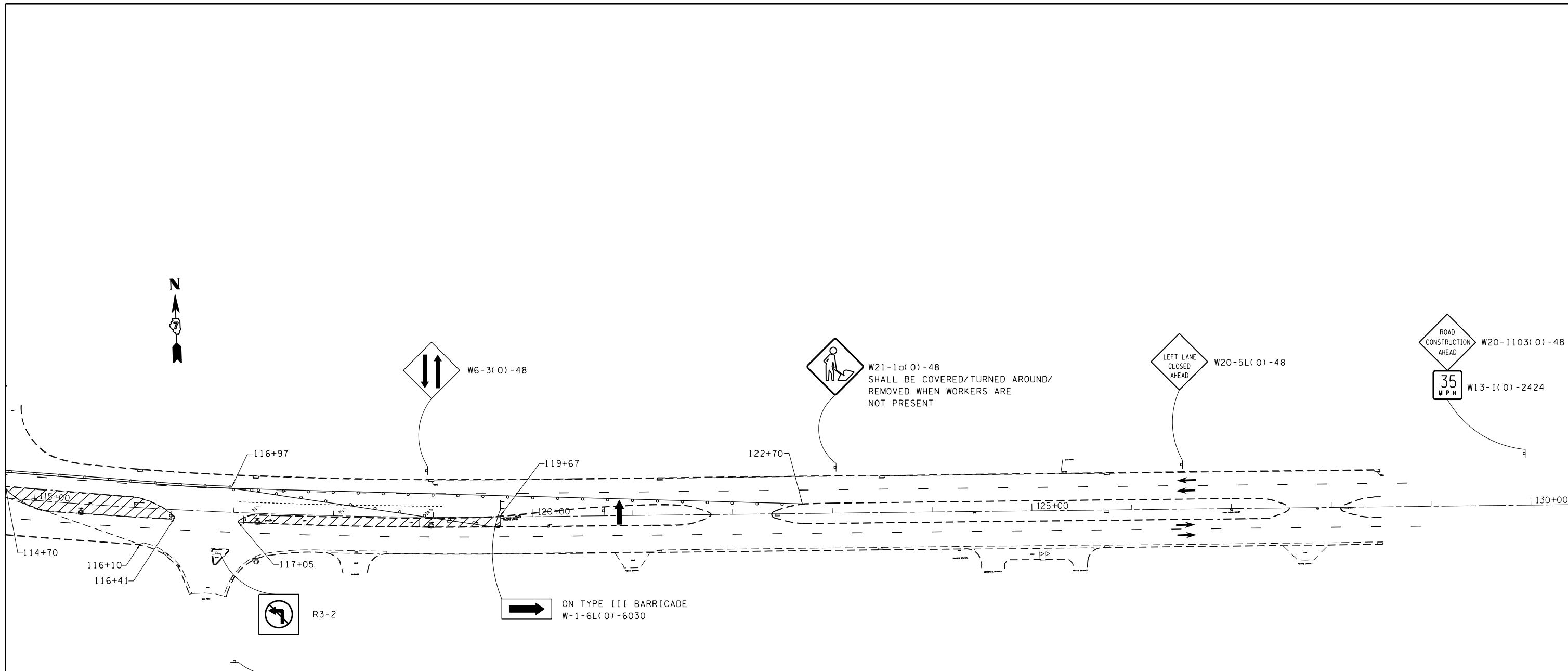
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ci:\pw_work\pwidot\steffenmk\d0187065\074615-sh1-stage1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	7
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	



R3-2

ON TYPE III BARRICADE
W-1-6L(O)-6030

LEGEND

- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ↑ ARROW BOARD
- ▨ PRE-STAGE 1 CURB & GUTTER AND MEDIAN REMOVAL
- 1 TYPE III BARRICADE

NOTE: DRUMS SHALL BE 25' CENTERS ON TAPER AND 50' CENTERS ON TANGENT.

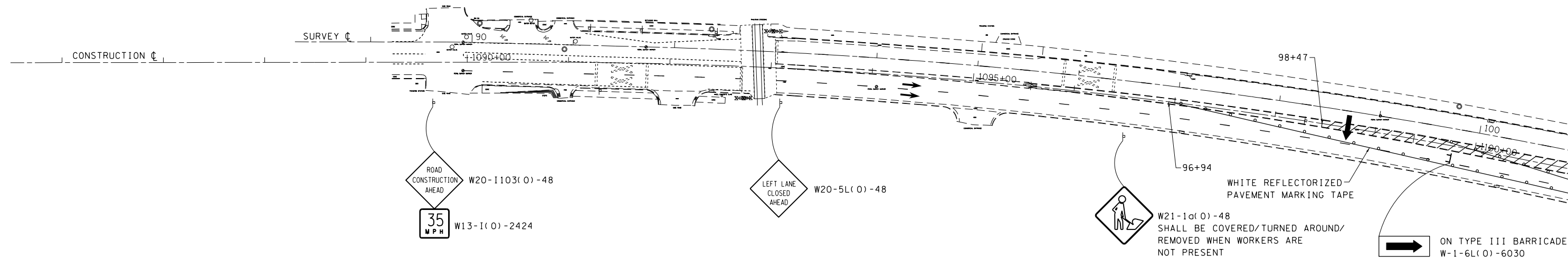
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ci:\pw\work\p\idot\steffenmk\d0187065\074615-sh1-stage1.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	8
ILLINOIS FED. AID PROJECT			CONTRACT NO.	74615

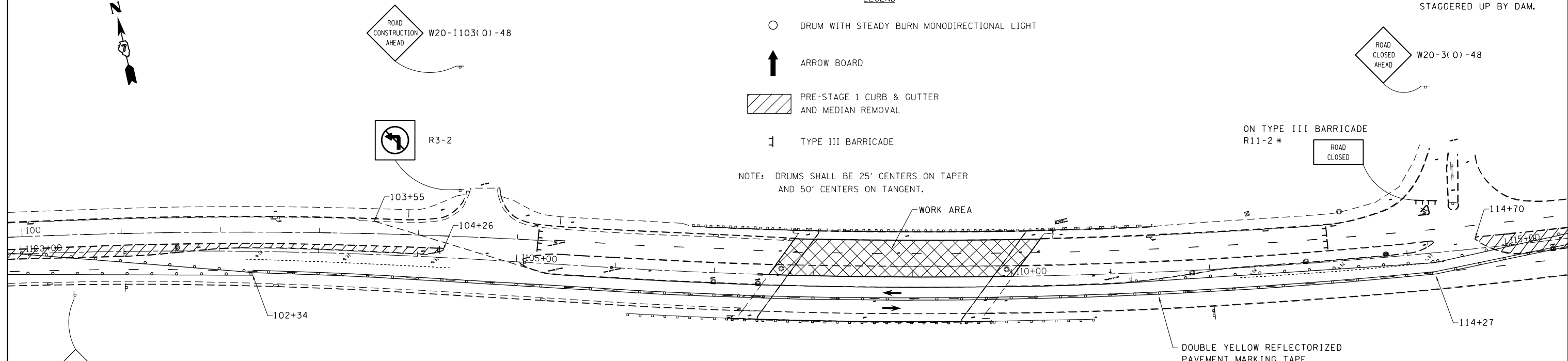


LEGEND

- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ↑ ARROW BOARD
- ▨ PRE-STAGE 1 CURB & GUTTER AND MEDIAN REMOVAL
- ⌄ TYPE III BARRICADE

NOTE: DRUMS SHALL BE 25' CENTERS ON TAPER AND 50' CENTERS ON TANGENT.

* ADDITIONAL SET OF STAGGERED UP BY DAM.

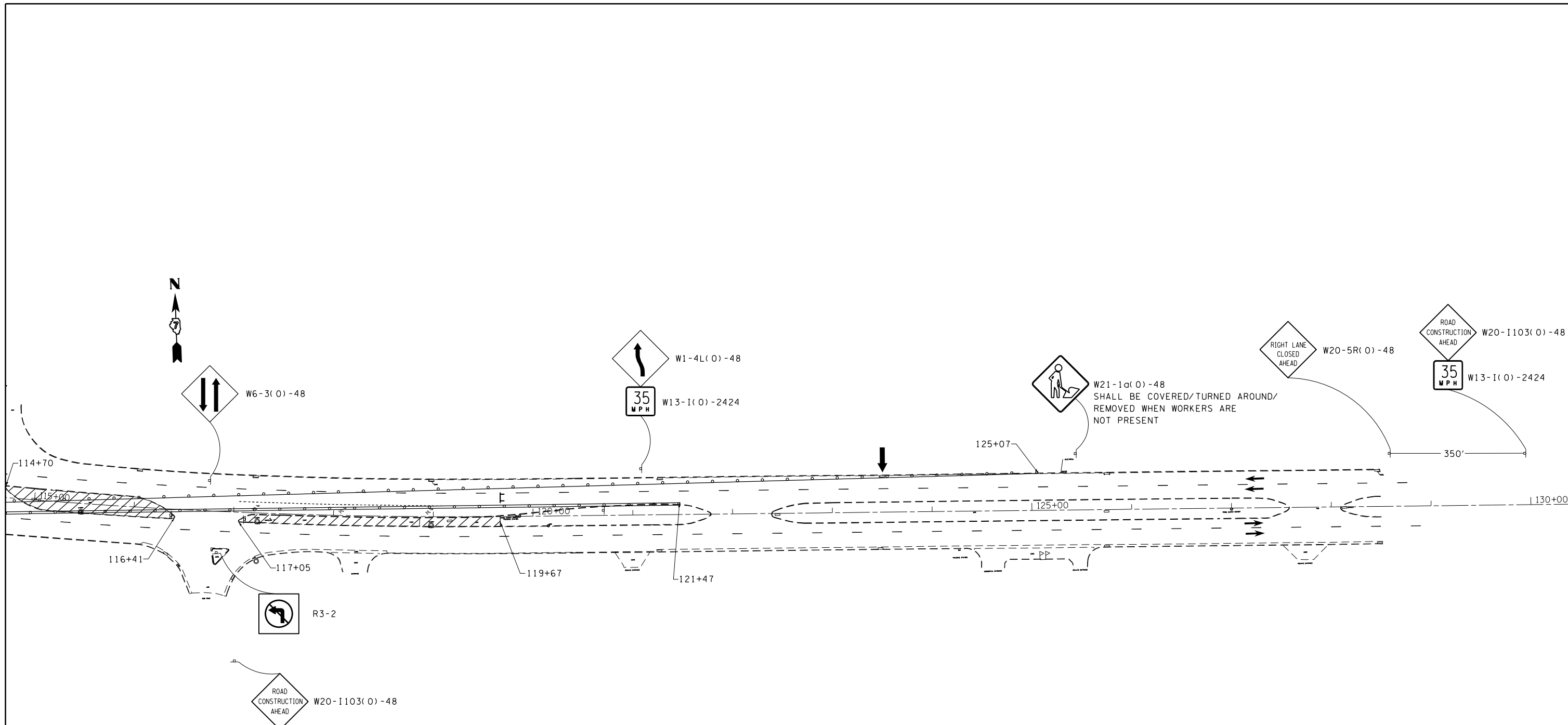


FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
Default	Default	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 CONSTRUCTION			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	9
CONTRACT NO.			74615	
ILLINOIS FED. AID PROJECT				



- LEGEND
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ↑ ARROW BOARD
 - ▨ PRE-STAGE 1 CURB & GUTTER AND MEDIAN REMOVAL
 - ⌏ TYPE III BARRICADE

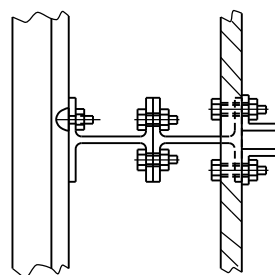
NOTE: DRUMS SHALL BE 25' CENTERS ON TAPER AND 50' CENTERS ON TANGENT.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ct:\pw\work\p1dot\stefjenmk\d0187065\074615-sh1-stage2.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

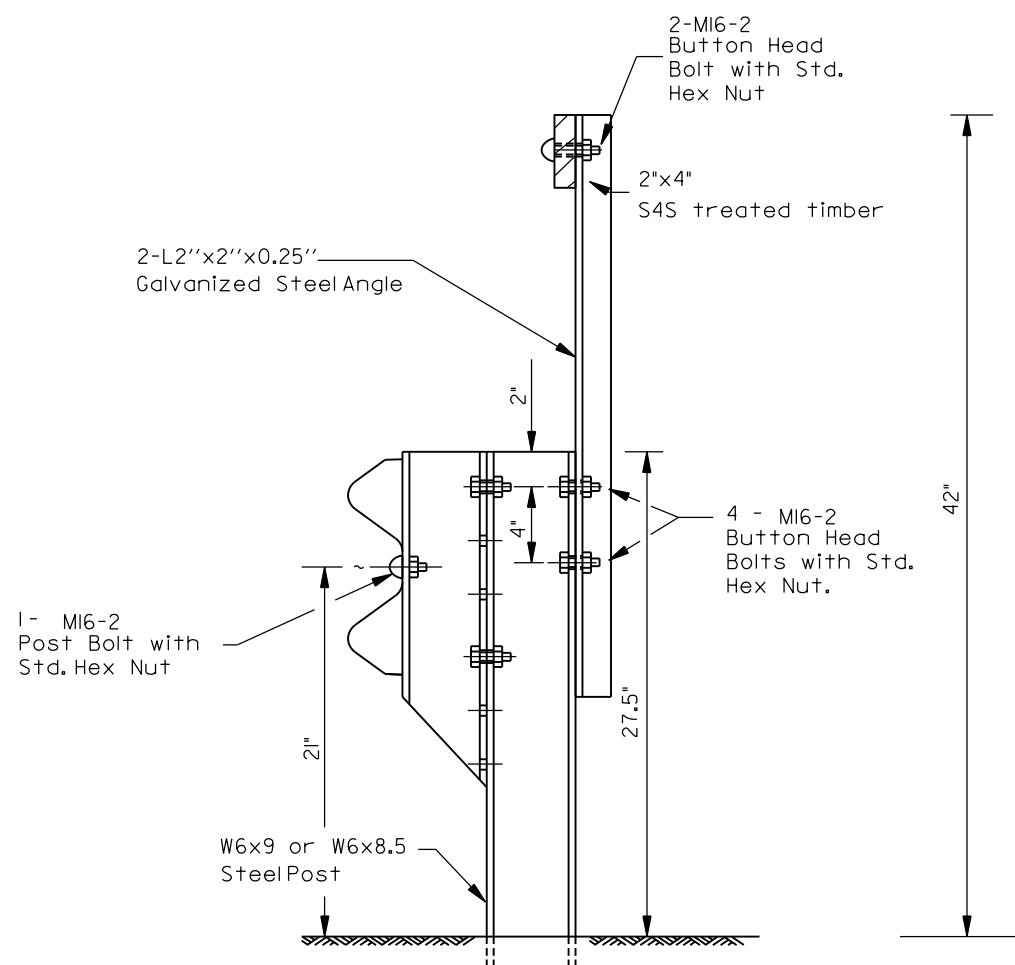
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 CONSTRUCTION			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	10
CONTRACT NO.			74615	
ILLINOIS FED. AID PROJECT				



PLAN



BICYCLE RAILING, SPECIAL CROSS SECTION

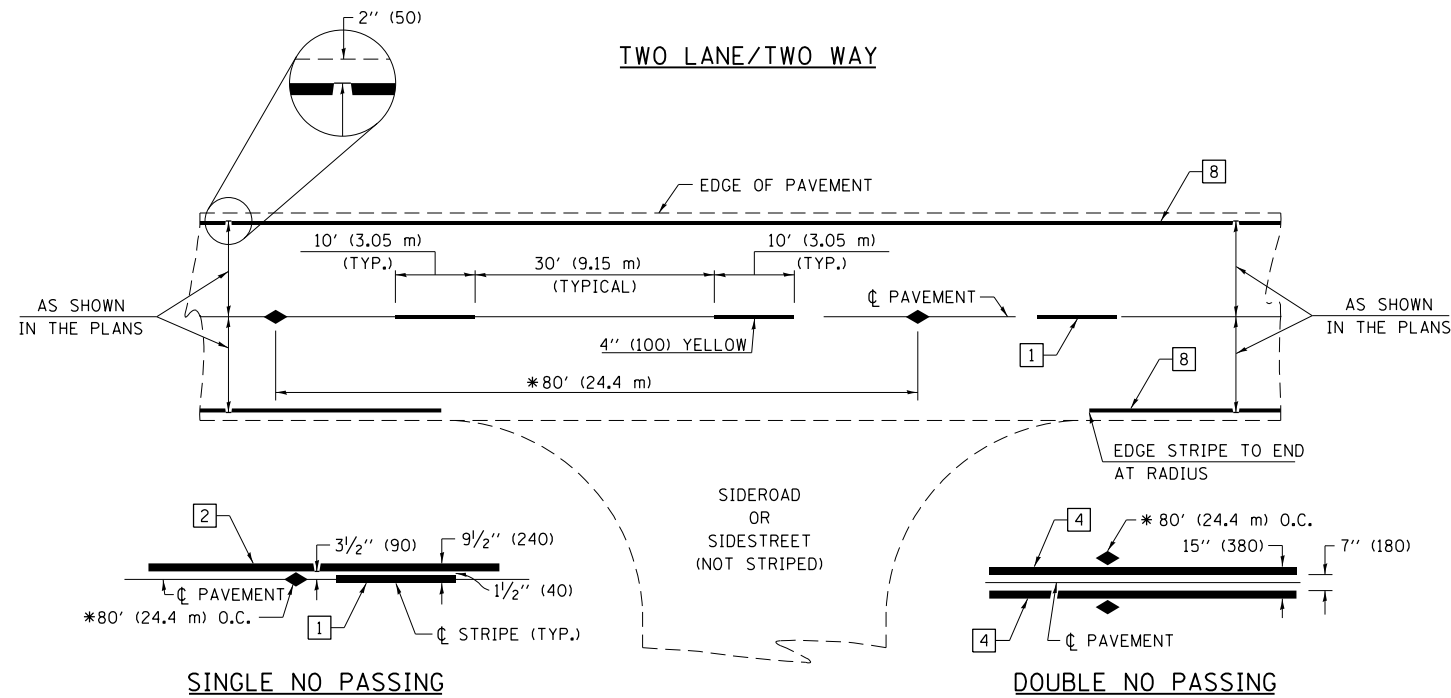
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ci:\pw\work\p\idot\steffenmk\d0187065\074615-shr-details.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING

SCALE: SHEET OF SHEETS STA. TO STA.

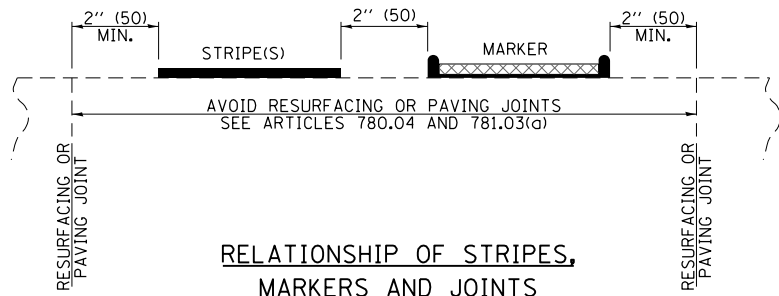
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	11
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

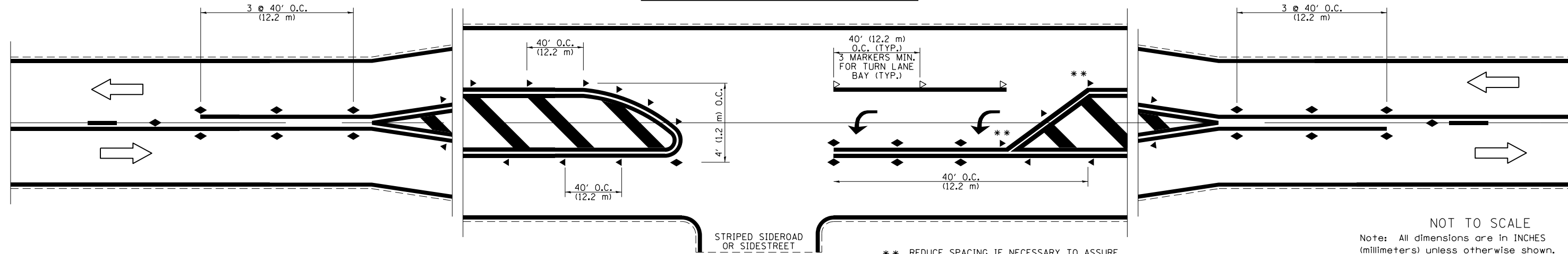
- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

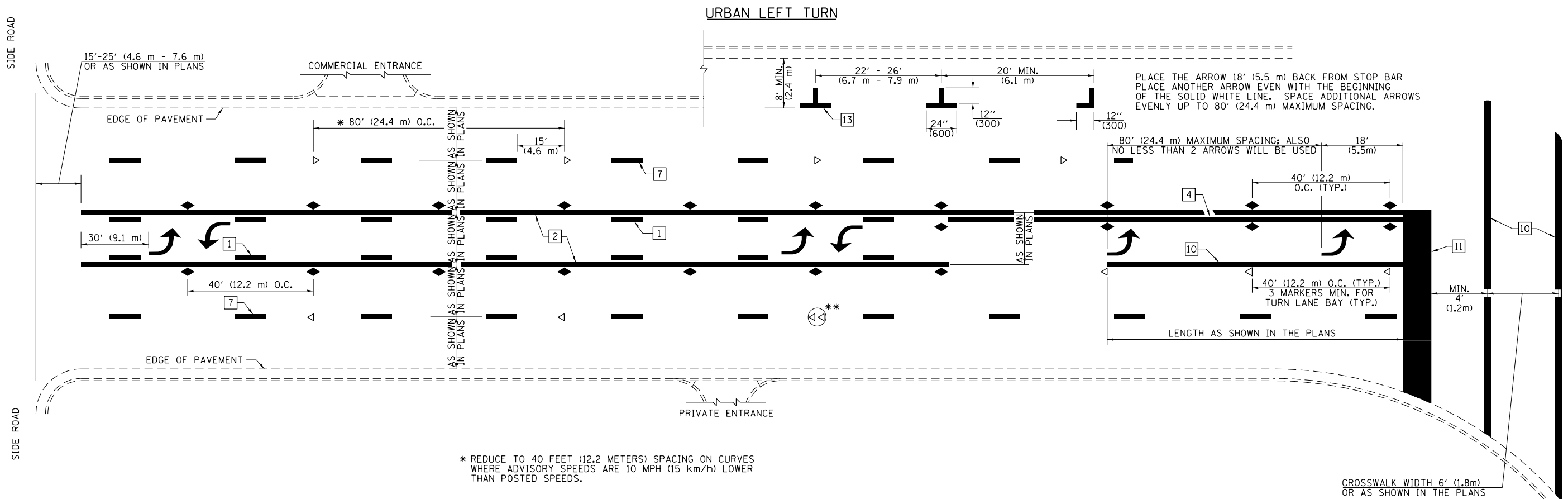
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ei:\pw\work\p\idot\steffenmk\d0187065\074615-sht-details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	12
			CONTRACT NO. 74615	
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

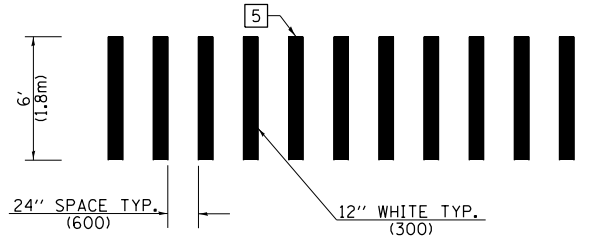
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

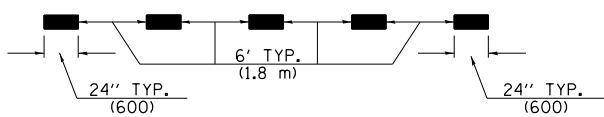
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

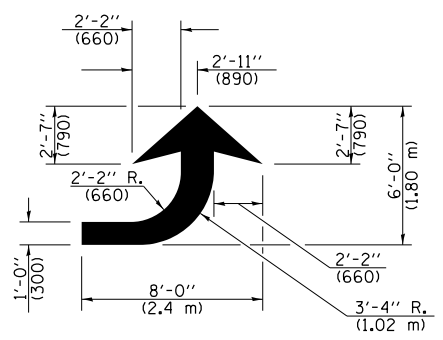
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)

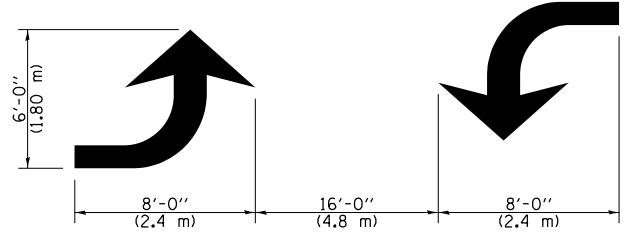


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



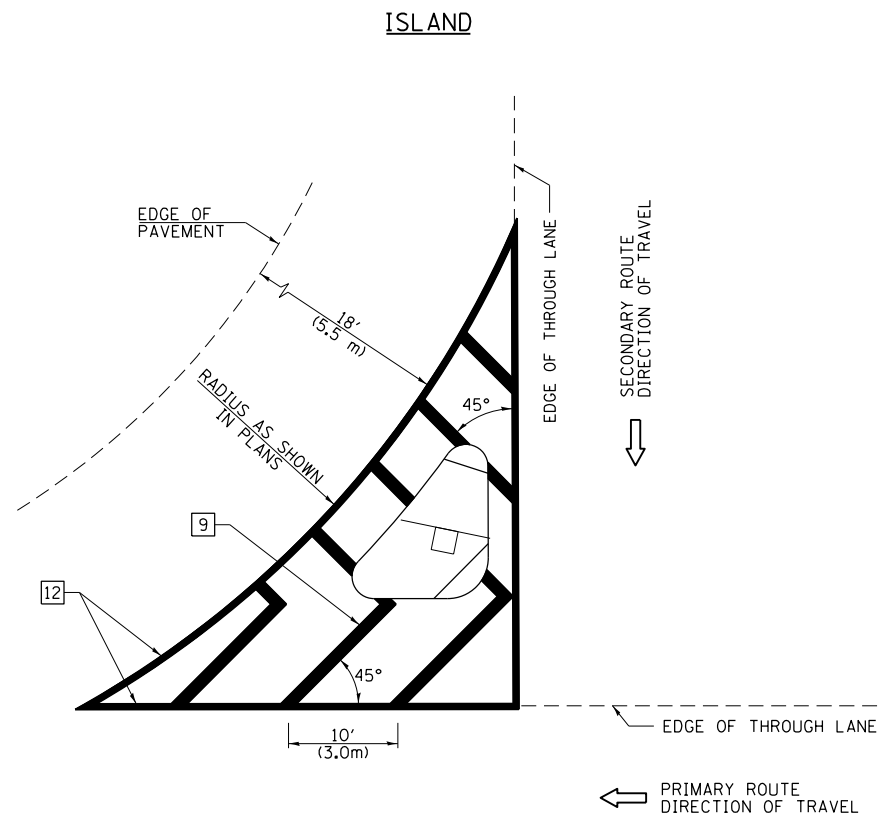
TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

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

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\d01dot\steffenmk\d0187065\074615-shd-detail.dgn	DRAWN -	REVISED -	325			(11B-1)BR	SHELBY	32	13	
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	CONTRACT NO. 74615							
PLOT DATE = 3/28/2013	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

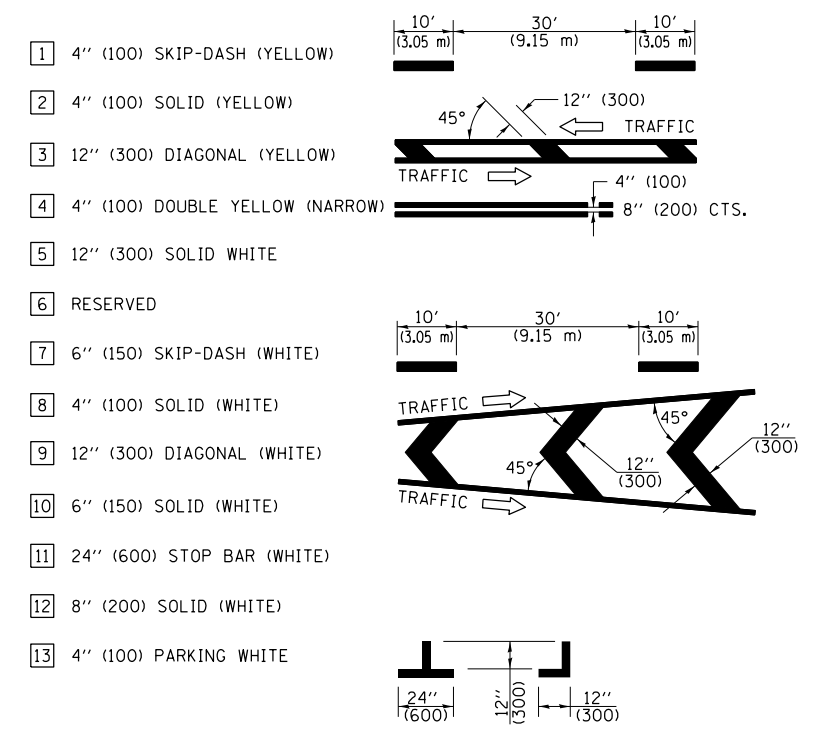


GENERAL NOTES

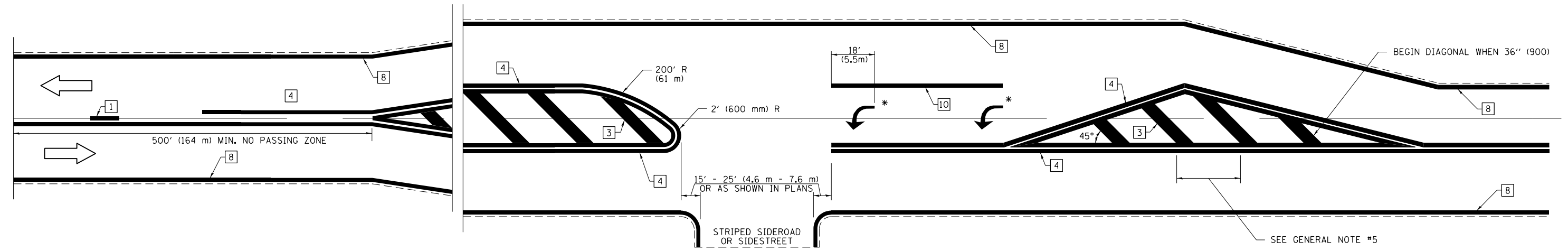
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

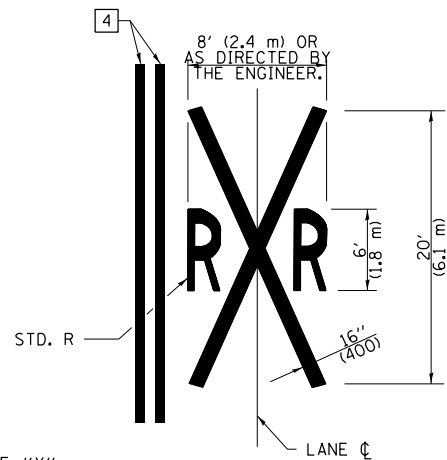
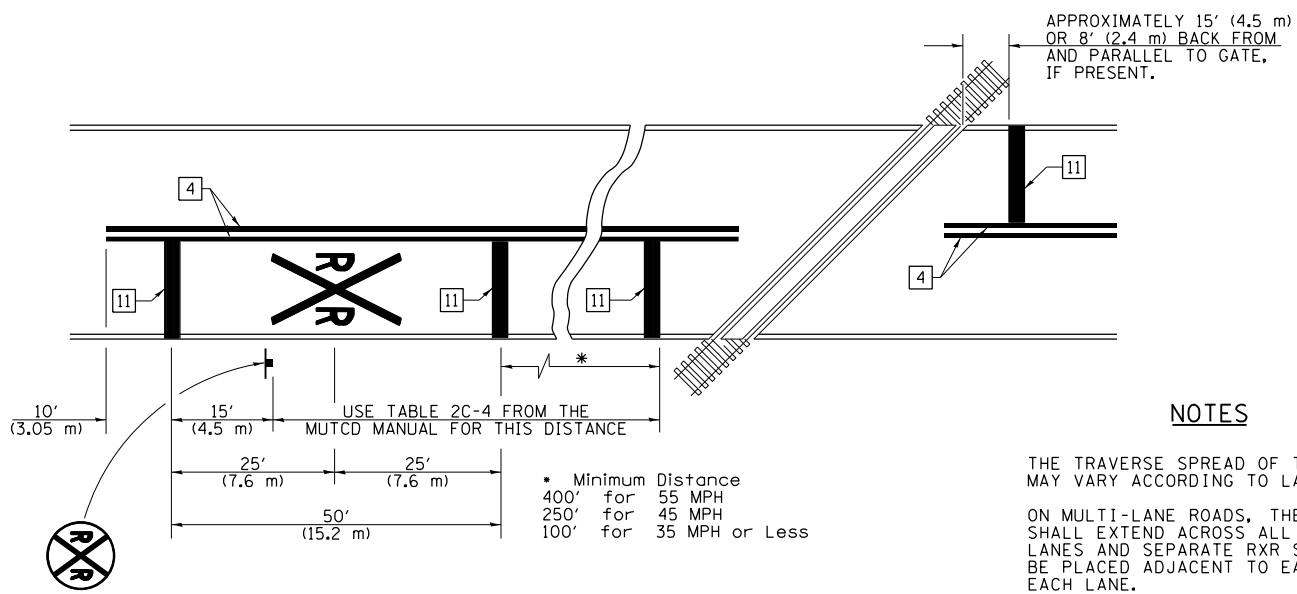
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ei:\pw\work\p\idot\steffenmk\d0187065\074615-shr-detail.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)**
 SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	14
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

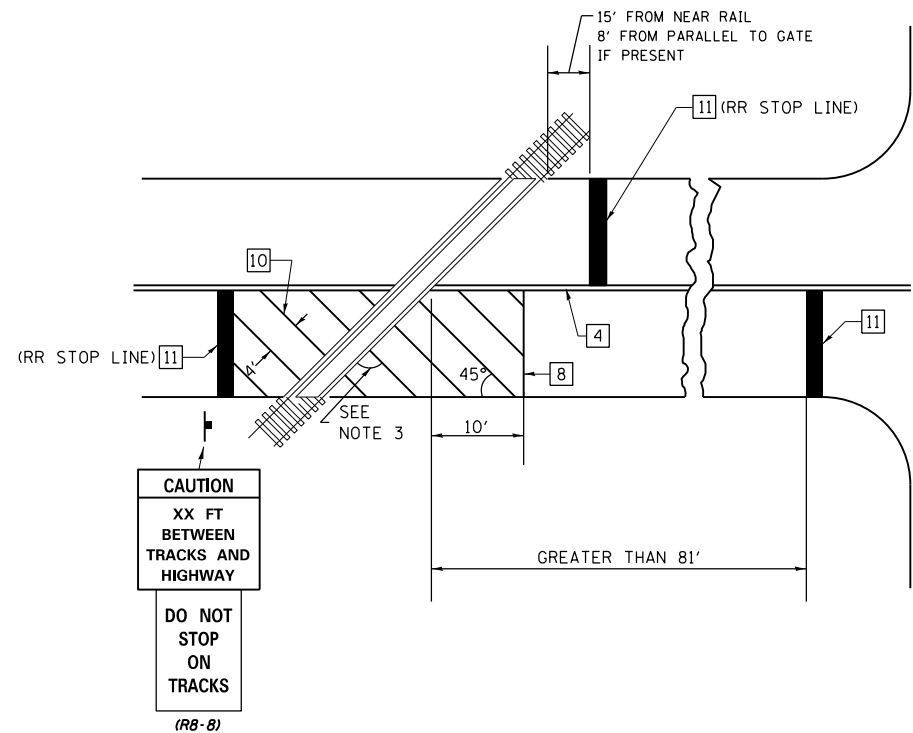
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

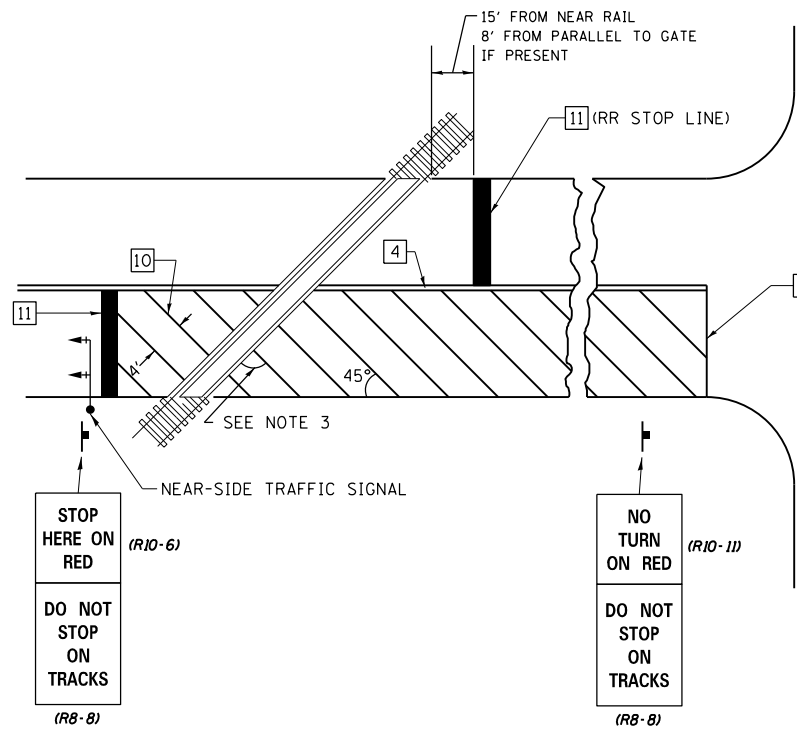
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

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

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pwork\work\pwork\stevfennk\d0187065\074615-shd-detail.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 3/28/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

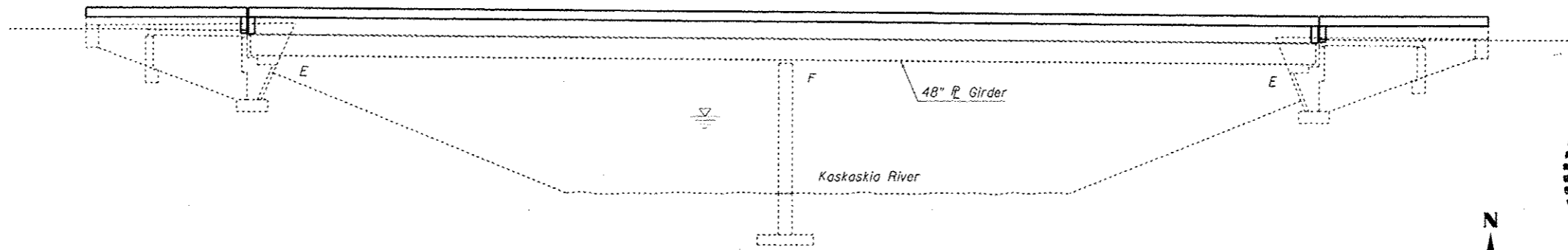
PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

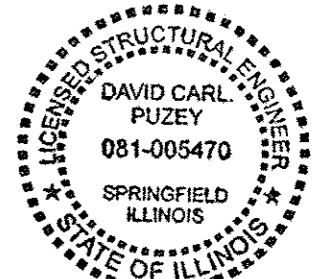
DISTRICT 7 DETAIL NO. 7800001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	15
				CONTRACT NO. 74615
ILLINOIS FED. AID PROJECT				

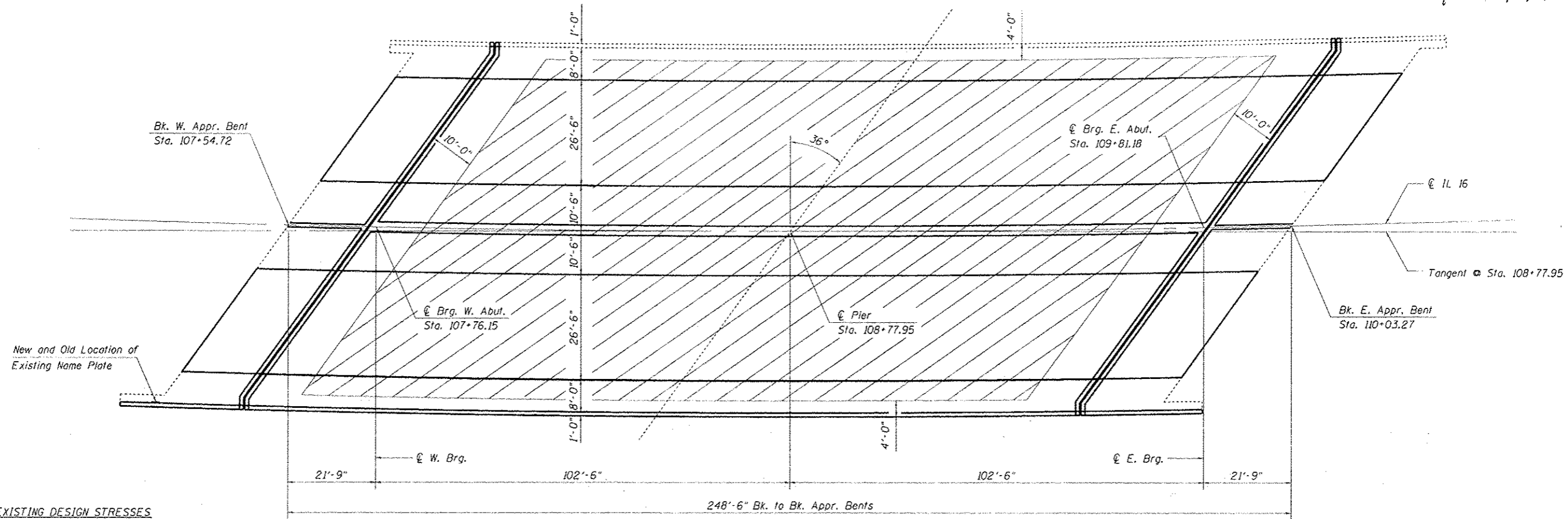
The existing two span continuous multi-beam structure with two vaulted abutments was constructed in 1972 as section 11B-1 of Sta. 108+77.95. SN. 087-0020 carries FAP 325 (IL 16) over the Kaskaskia River. The proposed project consists of new expansion joints, full depth deck repair, curb repair, new deck drains, closure of the longitudinal joint, new concrete wearing surface, new bridge rail on north parapet and modification to the south parapet.



ELEVATION



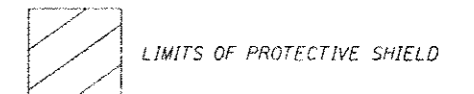
David Carl Puze 4/26/13
Expires 11/30/14



PLAN

EXISTING DESIGN STRESSES

- $f_c = 1200$ psi. Deck Slab
- $f_c = 1400$ psi. Curb, Parapet, Sub.
- $f_s = 20,000$ psi. Reinf.
- $f_s = 27,000$ psi. Struct.
- $vc = 75$ psi. Footings
- $n = 10$



FILE NAME: c:\pwworkspace\staff\carlpuz\1087795.dwg	USER NAME: staffcarlpuz	DESIGNED: KLB	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION SN. 087-0020	F.A.P. RTE. 325	SECTION 11B-1BR	COUNTY SHELBY	TOTAL SHEETS 32	SHEET NO. 16
PLT SCALE: 48.0000	PLT DATE: 3/28/2013	DRAWN: KLB	REVISIONS:			CONTRACT NO. 74615	(ILLINOIS) FED. AID PROJECT			
CHECKED: MEA	DATE: 10/31/2012	SCALE: SHEET 1 OF 17 SHEETS	STA. TO STA.							

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 based upon the unit price bid for the work.

Reinforcement Bars designated (E) shall be epoxy coated.

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 operations shall be replaced using an approved bar splicer or anchorage system. Cost included in the contract unit price for CONCRETE REMOVAL.

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

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Prior to pouring the new concrete deck, all heavy and 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.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

The Name Plate shall be removed from the existing railing and embedded into the new parapet concrete at the same location. This work and all materials shall be included in the contract unit price for Concrete Superstructure.

Removal and replacement of a portion of the sidewalk and median will be necessary to remove or replace the existing deck drains. This work and all materials shall be included in the contract unit price for DECK SLAB REPAIR (FULL DEPTH).

It is anticipated that a full depth deck slab repair will be necessary at every location of deck drains to be eliminated. Removal and disposal of the existing deck drains shall be included in the contract unit price for DECK SLAB REPAIR (FULL DEPTH, TYPE II).

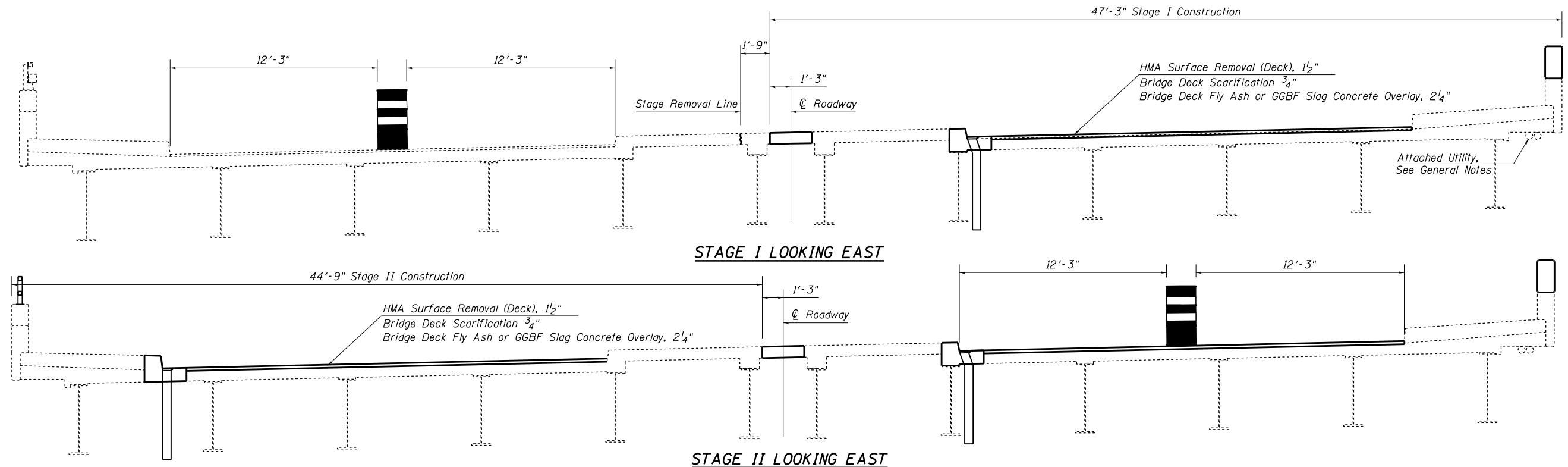
Any full depth median repair shall be paid for as DECK SLAB REPAIR (FULL DEPTH).

It shall be the responsibility of Consolidated Communications to support and protect their facility during construction. The Contractor shall notify Consolidated Communications at least two weeks prior to beginning construction.

Consolidated Communications
121 South 17th Street
Mattoon, Illinois 61938-3987
Attn: Gerry Myers (217) 234-9971

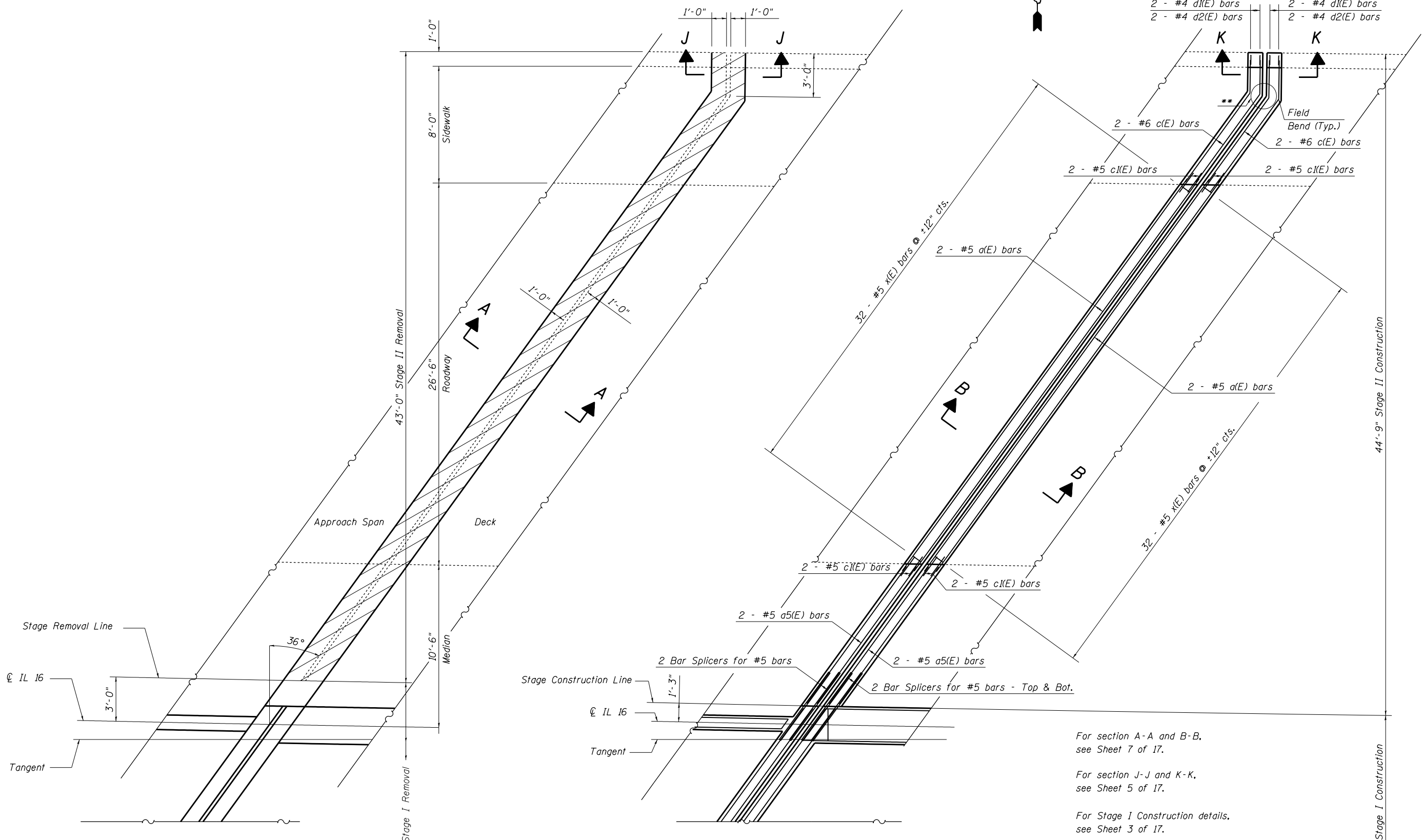
TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	24.3
Concrete Superstructure	Cu. Yd.	42.8
Reinforcement Bars, Epoxy Coated	Pound	9200
Bar Splicers	Each	12
Preformed Joint Strip Seal	Foot	230
HMA Surface Removal (Deck)	Sq Yd	1432
Bridge Deck Scarification, 3/4"	Sq Yd	1432
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2 1/4"	Sq Yd	1432
Bridge Deck Grooving	Sq Yd	1351
Protective Coat	Sq Yd	250
Steel Railing Removal	Foot	530
Parapet Railing	Foot	262
Deck Slab Repair (Full Depth, Type I)	Sq Yd	1
Deck Slab Repair (Full Depth, Type II)	Sq Yd	168
Floor Drains	Each	30
Stone Dumped Riprap, Cass A5	TON	196
Structural Repair of Concrete <5"	Sq Ft	3392
Protective Shield	Sq Yd	1709



** Discontinuity of Preformed Joint Strip Seal Rail at 36° bend

Hatching indicates Concrete Removal.



EXISTING PARTIAL PLAN
(West Abutment shown; East Abutment similar)

PROPOSED PARTIAL PLAN
(West Abutment shown; East Abutment similar)

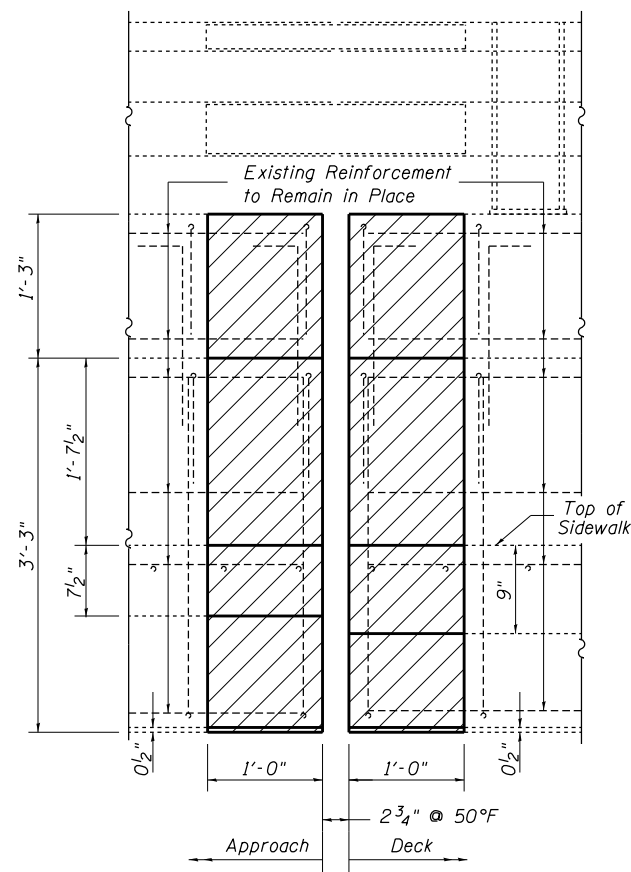
For section A-A and B-B,
see Sheet 7 of 17.

For section J-J and K-K,
see Sheet 5 of 17.

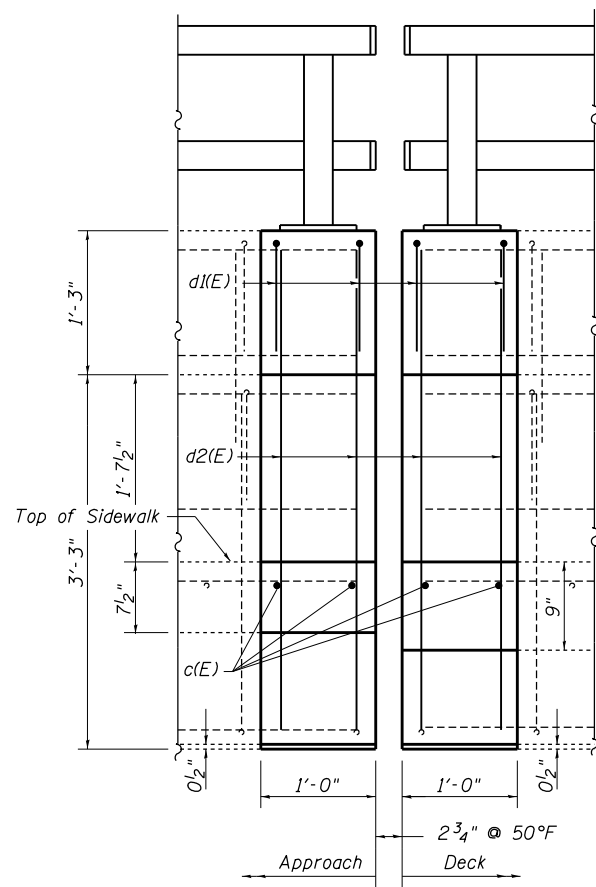
For Stage I Construction details,
see Sheet 3 of 17.

For the Bill of Materials and details of
bars a4(E), c(E), d(E) and x(E),
see Sheet 5 of 17.

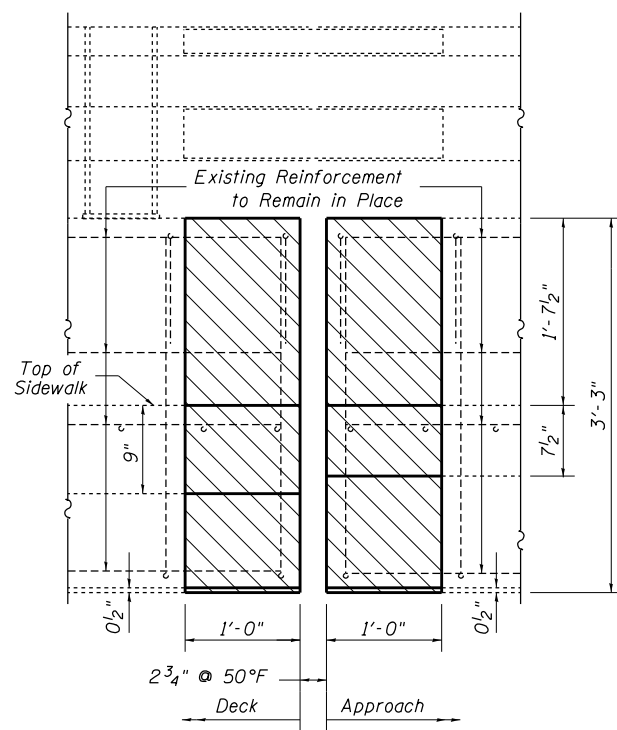
FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXPANSION AND LONGITUDINAL JOINT DETAILS STAGE II - SN. 087-0020		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\idot\steffenmk\d0187065\0774615-shr-brd\details.dgn	PLOT SCALE = 40.0000' / in.	DRAWN - KLB	REVISED -		SCALE:	SHEET 4 OF 17 SHEETS	STA.	325	(11B-1)BR	SHELBY	32	19
Default	PLOT DATE = 3/28/2013	CHECKED - MEA	REVISED -		TO STA.					CONTRACT NO.	74615	
		DATE - 10/31/2012	REVISED -		ILLINOIS FED. AID PROJECT							



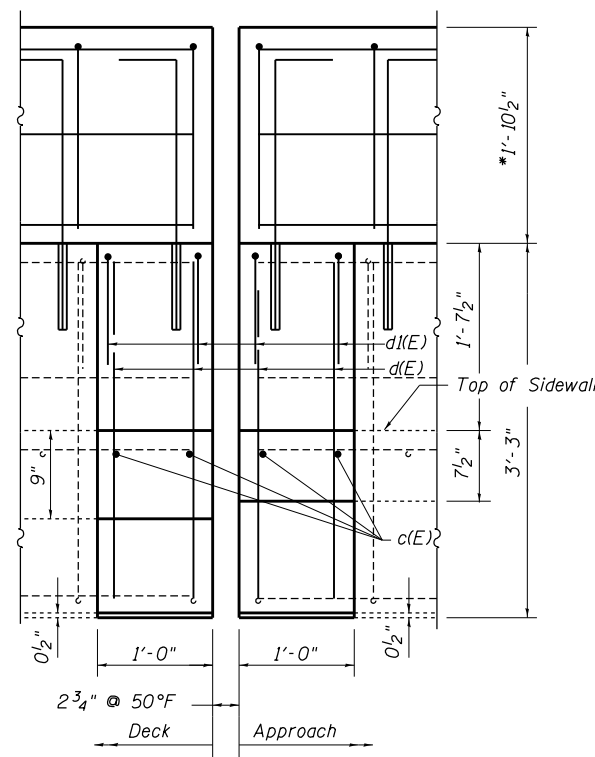
Section J-J



Section K-K



Section L-L

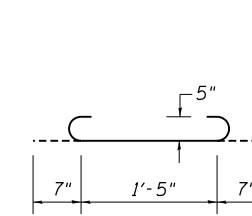


Section M-M

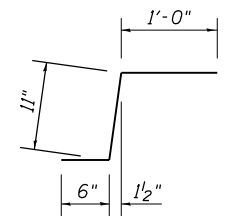
BILL OF MATERIAL

Longitudinal Joint

BAR	NUMBER OF BARS		TOTAL	SIZE	LENGTH	SHAPE	
	STAGE I	STAGE II					
a2(E)	22		22	#5	0'-9"	—	
a3(E)	330		330	#5	2'-2"	—	
a4(E)	330		330	#5	2'-7"	C	
b (E)	8		8	#5	18'-1"	—	
b1(E)	84		84	#5	27'-3"	—	
REINFORCEMENT BARS (EPOXY COATED)						POUND	4190
CONCRETE REMOVAL						CU YD	12.7
CONCRETE SUPERSTRUCTURE						CU YD	12.7



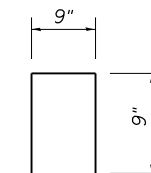
Bar a4(E)



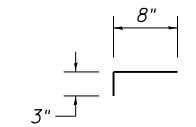
Bar c1(E)

- Existing Reinforcement
- Proposed Reinforcement

Hatching indicates Concrete Removal.



Bar d1(E)



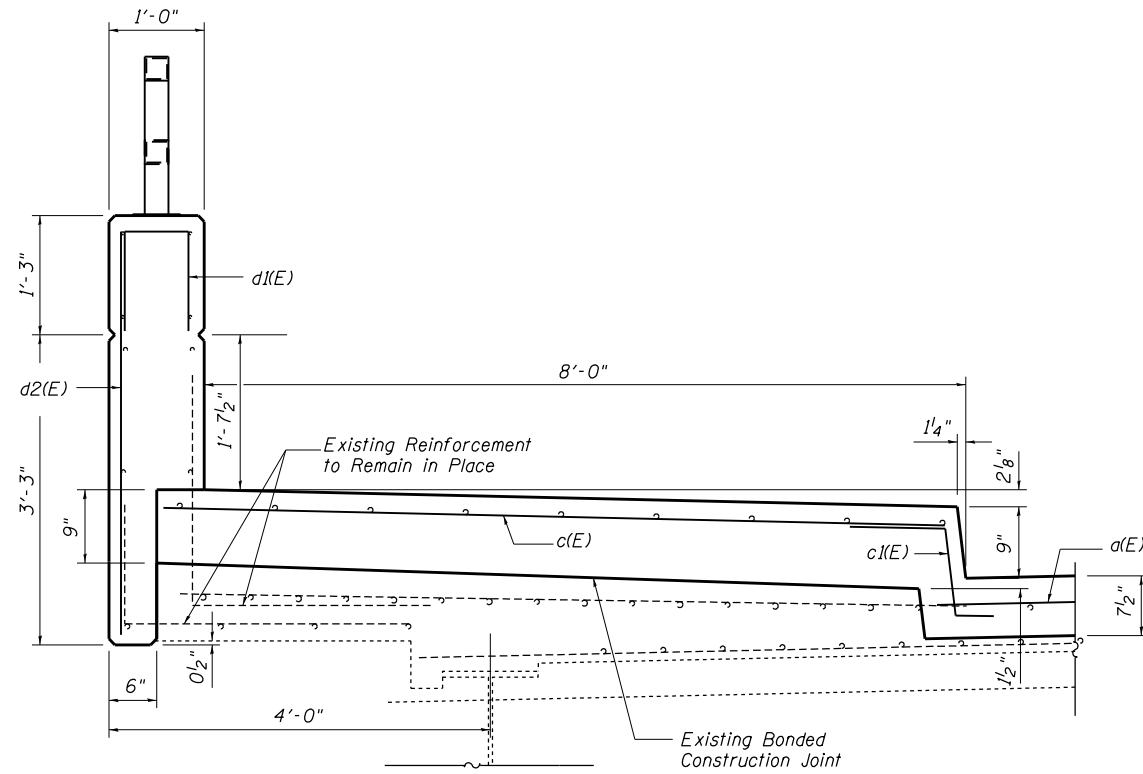
Bar x(E)

* See sheet 12 of 17 for South Parapet Modification details.

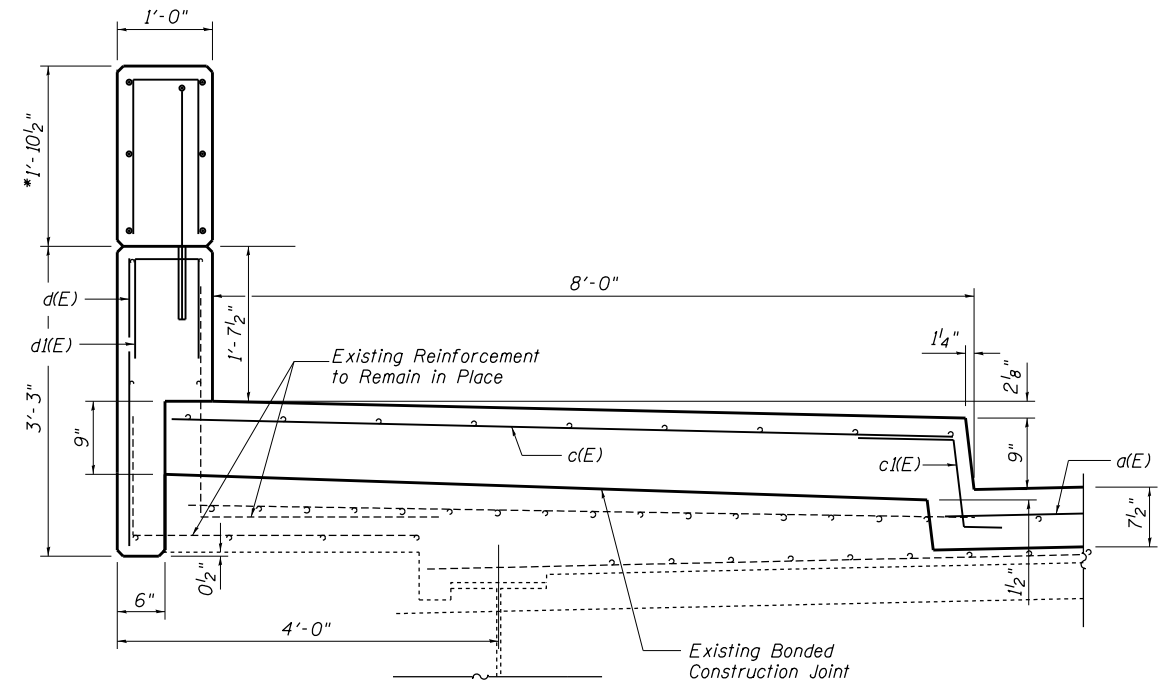
BILL OF MATERIAL

PER ABUTMENT

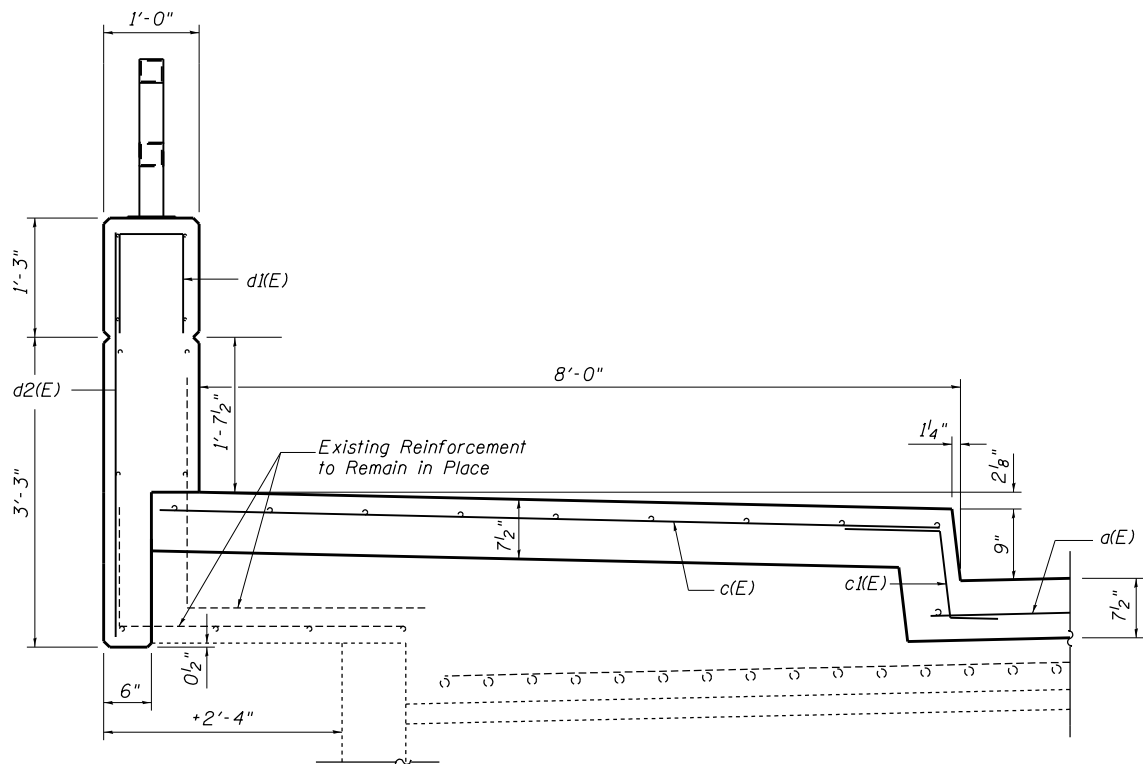
BAR	NUMBER OF BARS		TOTAL	SIZE	LENGTH	SHAPE	
	STAGE I	STAGE II					
a (E)	4	4	8	#5	32'-10"	—	
a1(E)	6		6	#5	14'-6"	—	
a5(E)		6	6	#5	11'-5"	—	
c (E)	4	4	8	#6	9'-7"	—	
c1(E)	8	8	16	#5	2'-5"	J	
d (E)	4		4	#4	3'-0"	—	
d1(E)	4	4	8	#4	2'-3"	□	
d2(E)		4	4	#4	4'-3"	—	
x (E)	64	64	128	#5	0'-11"	┌	
REINFORCEMENT BARS (EPOXY COATED)						POUND	750
CONCRETE REMOVAL						CU YD	5.8
CONCRETE SUPERSTRUCTURE						CU YD	5.8



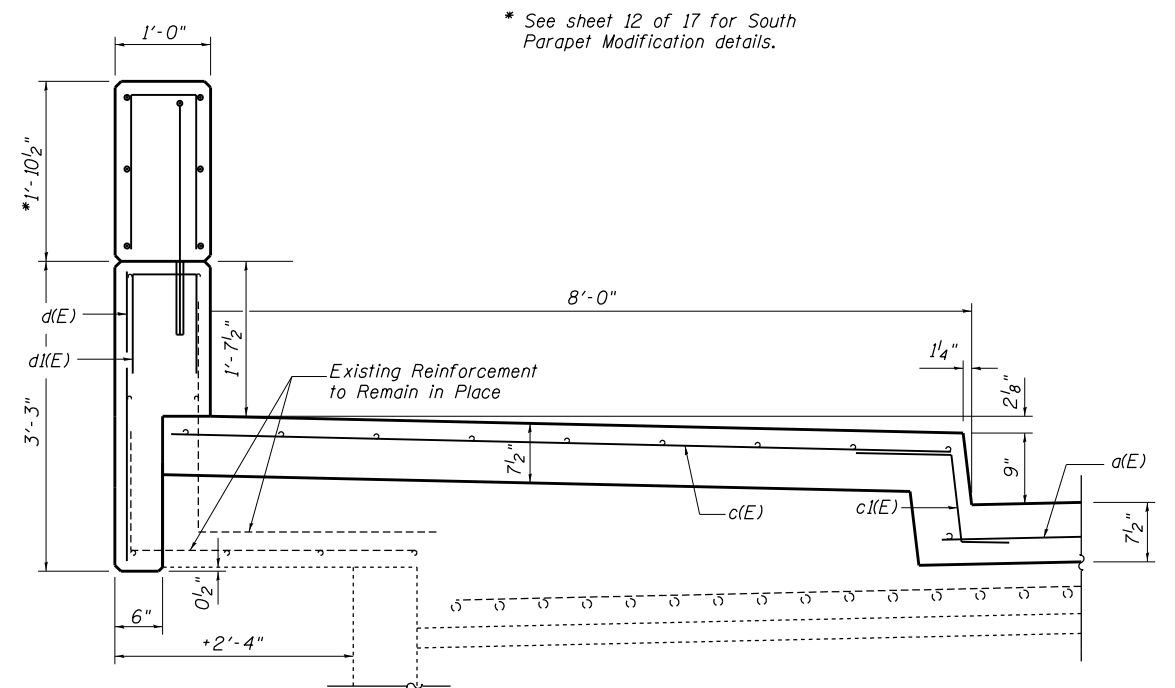
SECTION THRU NORTH DECK PARAPET AND SIDEWALK



SECTION THRU SOUTH DECK PARAPET AND SIDEWALK



SECTION THRU NORTH APPROACH PARAPET AND SIDEWALK



SECTION THRU SOUTH APPROACH PARAPET AND SIDEWALK

* See sheet 12 of 17 for South Parapet Modification details.

- Existing Reinforcement
- Proposed Reinforcement

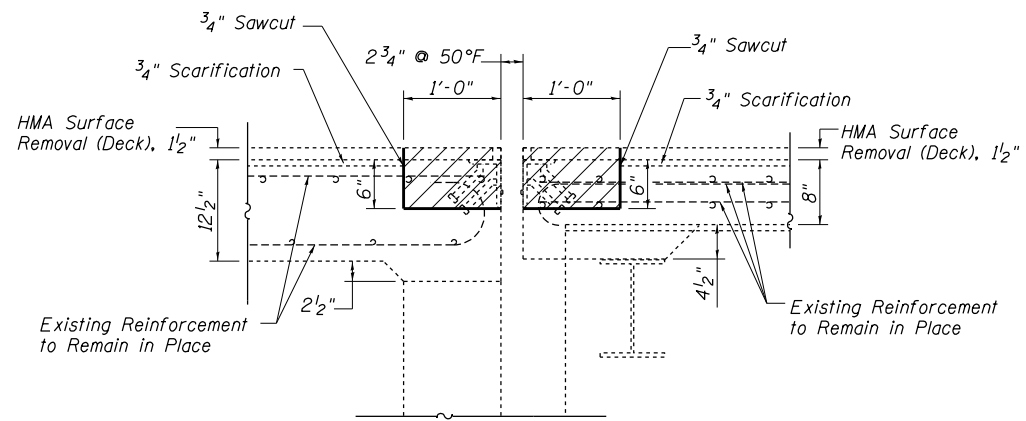
FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -
ei:\pw\work\p\midot\steffenmk\d0187065\0774615-shit-brdetails.dgn		DRAWN - KLB	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REPLACEMENT DETAILS
SN. 087-0020**

SCALE: SHEET 6 OF 17 SHEETS STA. TO STA.

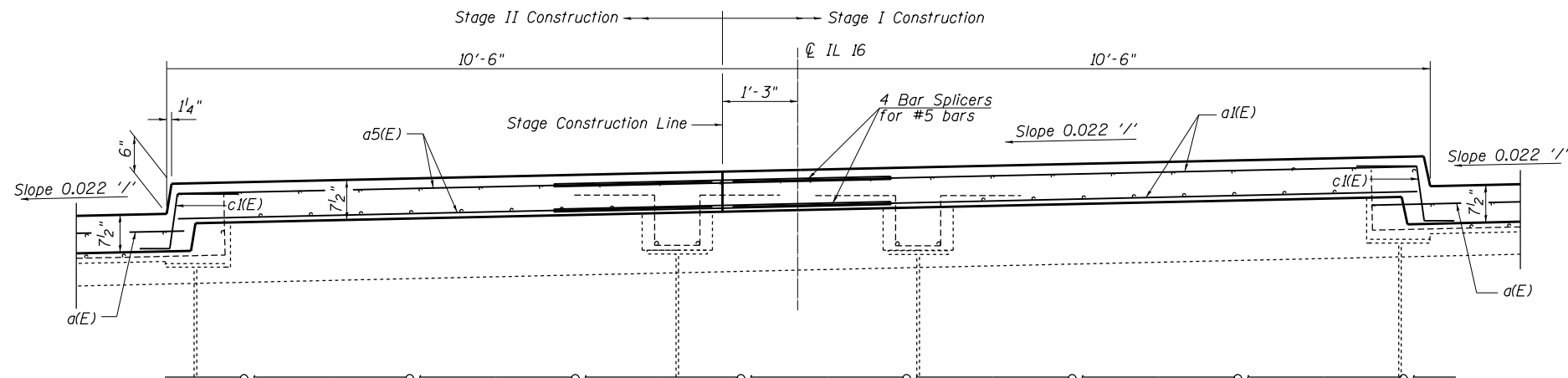
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	21
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	



SECTION A-A
(Dimensions at Rt. L's to end of deck)

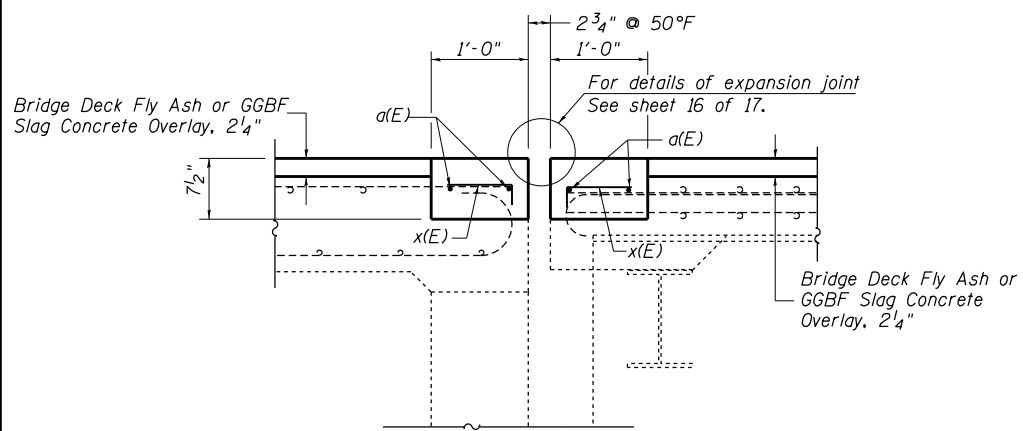
Note: The existing expansion armor shall be cut at the limit of the Concrete Removal as needed. Cost included with Concrete Removal.

Hatching indicates Concrete Removal.

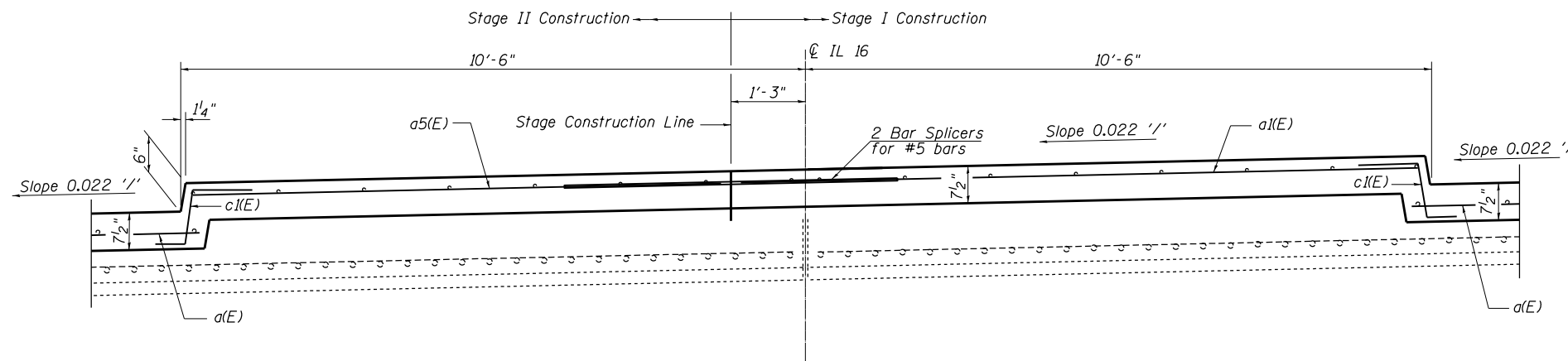


SECTION THRU DECK MEDIAN
(LOOKING EAST)

○ Existing Reinforcement
● Proposed Reinforcement



SECTION B-B
(Dimensions at Rt. L's to end of deck)



SECTION THRU APPROACH MEDIAN
(LOOKING EAST)

FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -
ei:\pw\work\p\idot\steffenmk\d0187065\0774615-shr-brd\details.dgn		DRAWN - KLB	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -

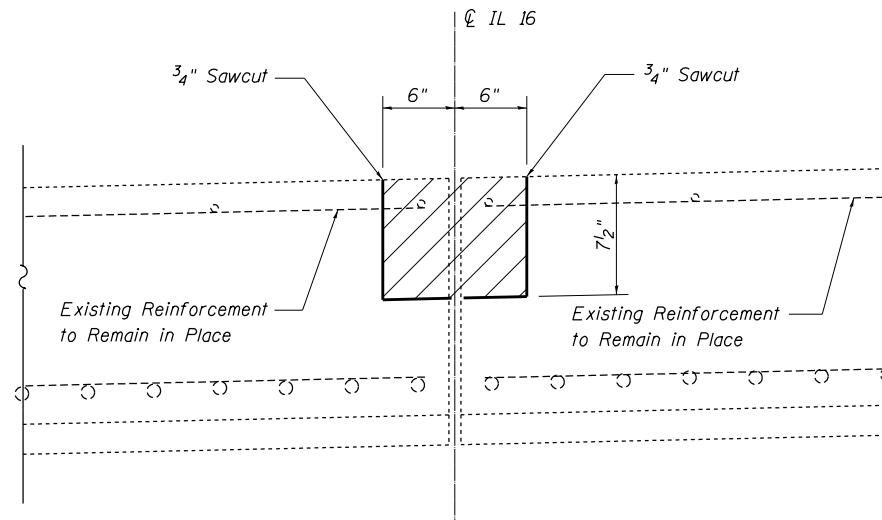
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN. 087-0020

SCALE: SHEET 7 OF 17 SHEETS STA. TO STA.

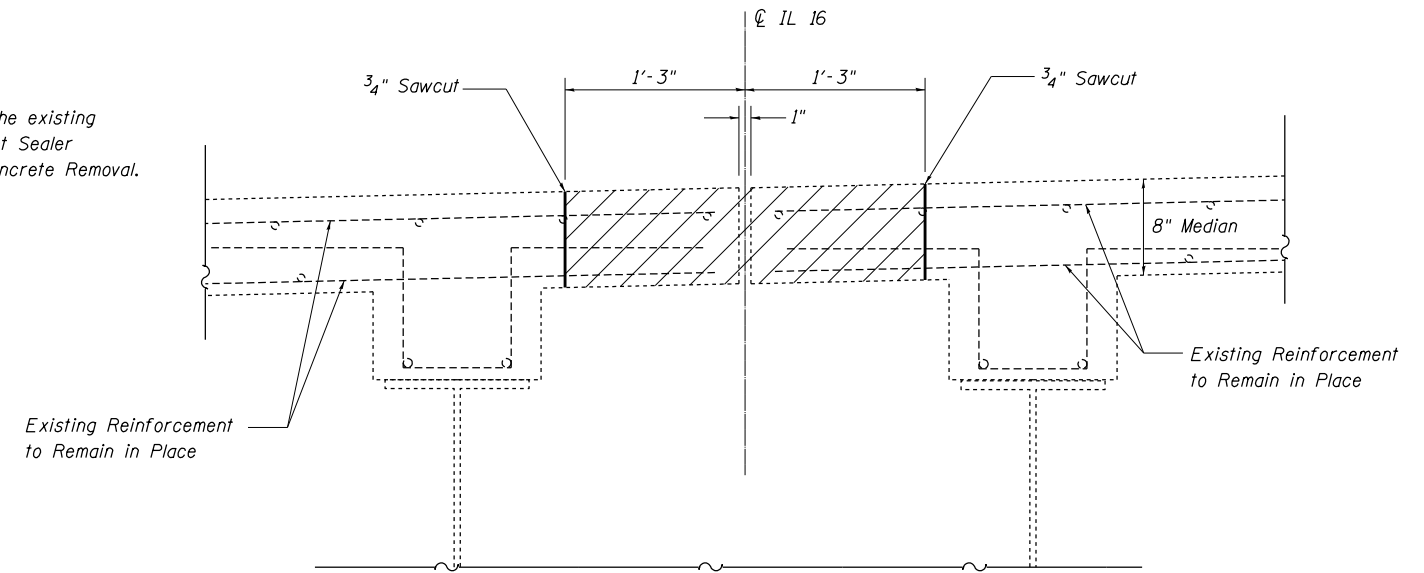
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	22
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	

Hatching indicates Concrete Removal.



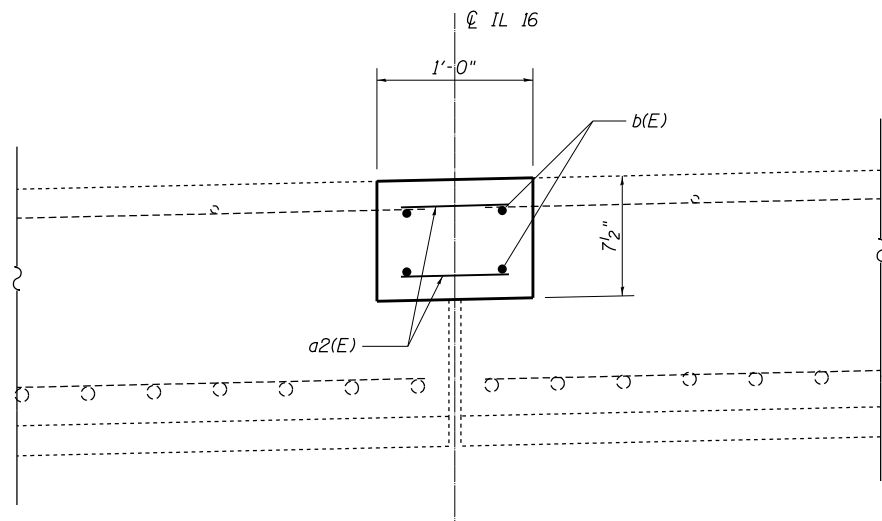
SECTION C-C
(Dimensions at Rt. L's to the CL IL 16)

Cost of the removal of the existing longitudinal Concrete Joint Sealer shall be included with Concrete Removal.

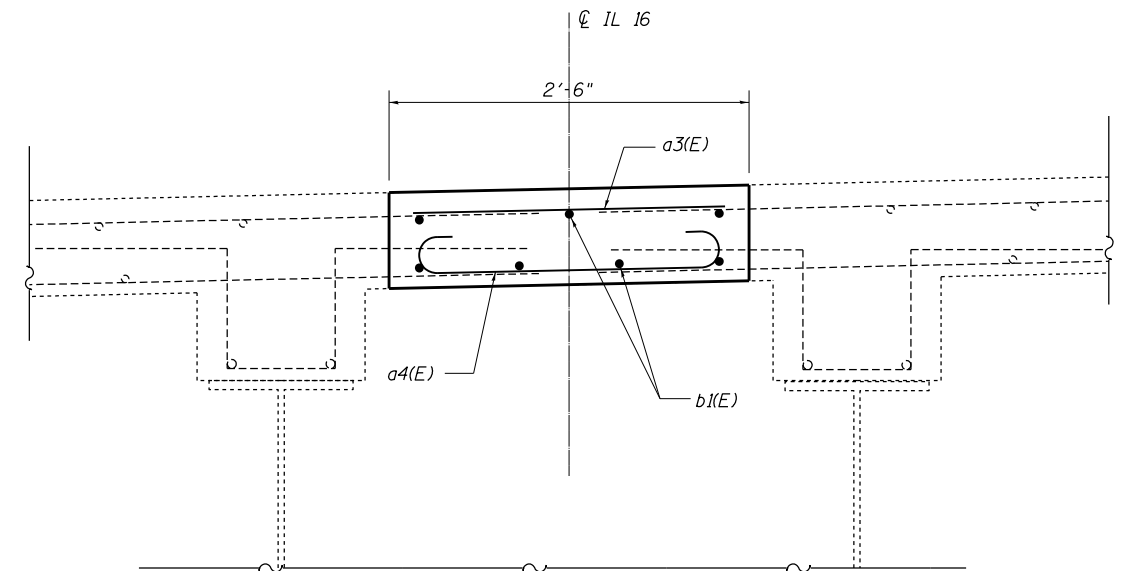


SECTION E-E
(Dimensions at Rt. L's to the CL IL 16)

- Existing Reinforcement
- Proposed Reinforcement



SECTION D-D
(Dimensions at Rt. L's to the CL IL 16)



SECTION F-F
(Dimensions at Rt. L's to the CL IL 16)

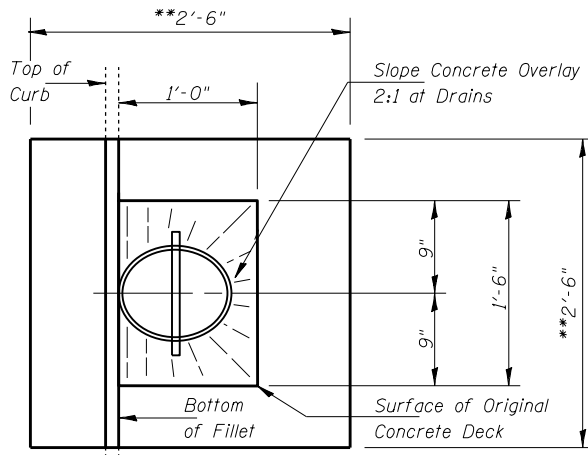
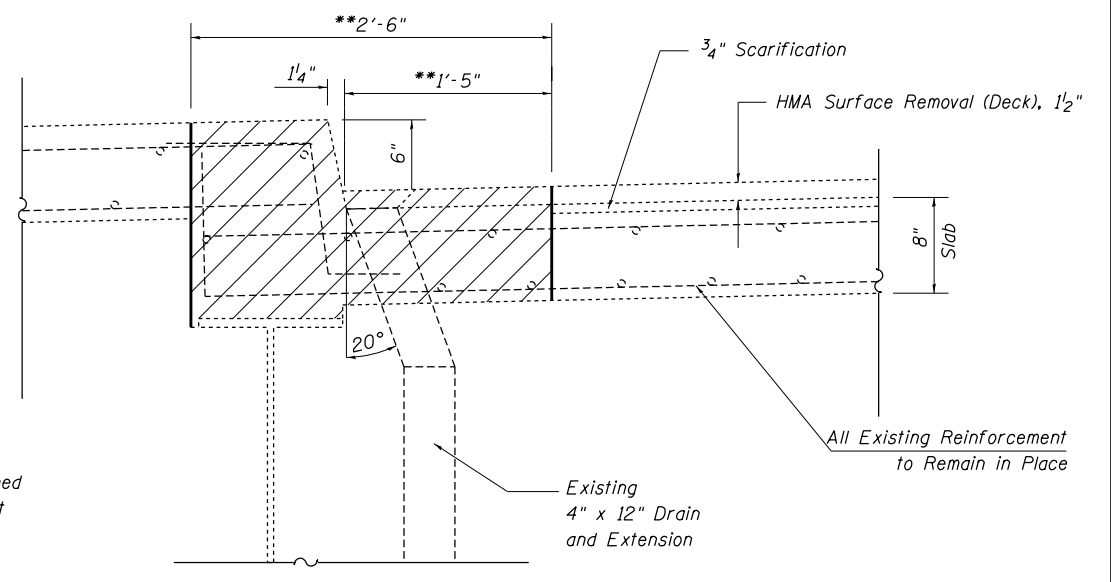
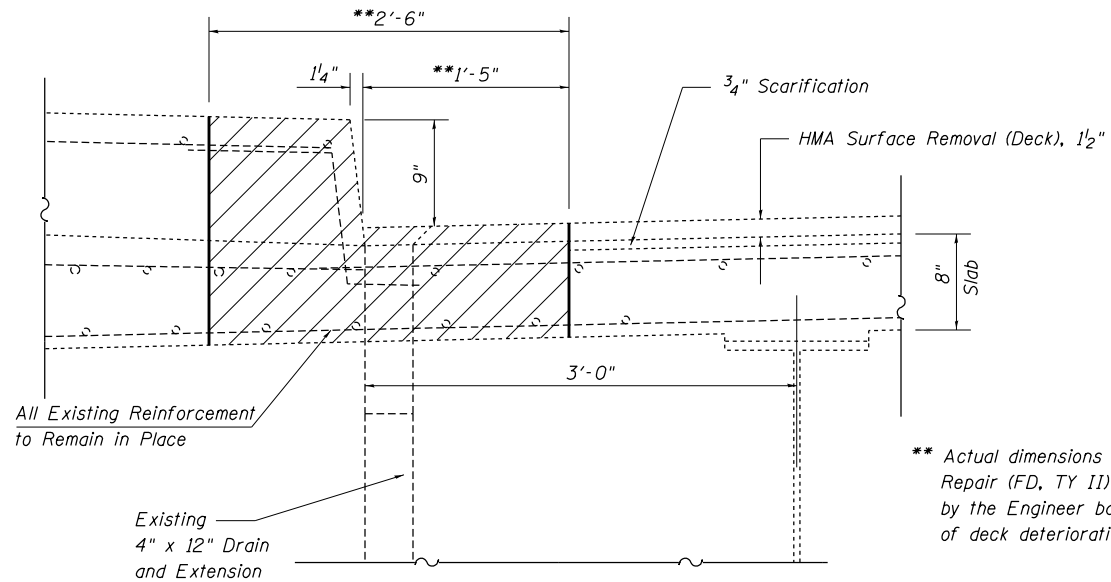
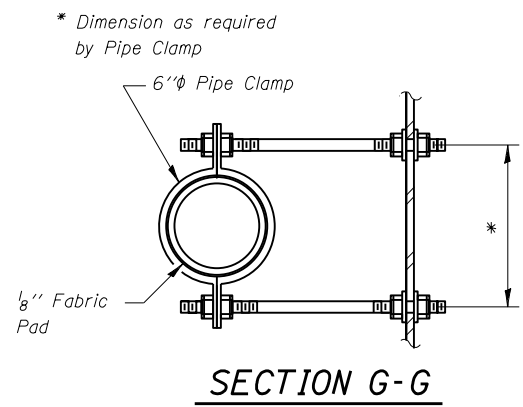
FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -
ci:\pw_work\p\idot\steffenmk\d0187065\074615-shj-brdeta1.s.dgn		DRAWN - KLB	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LONGITUDINAL JOINT CLOSURE DETAILS
SN. 087-0020

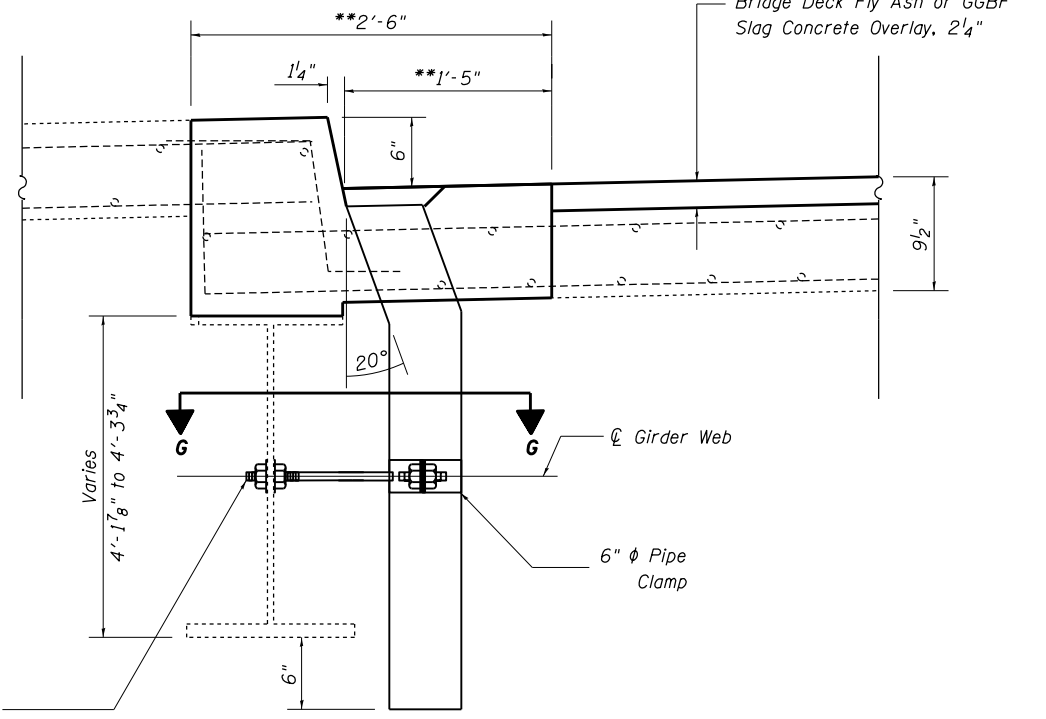
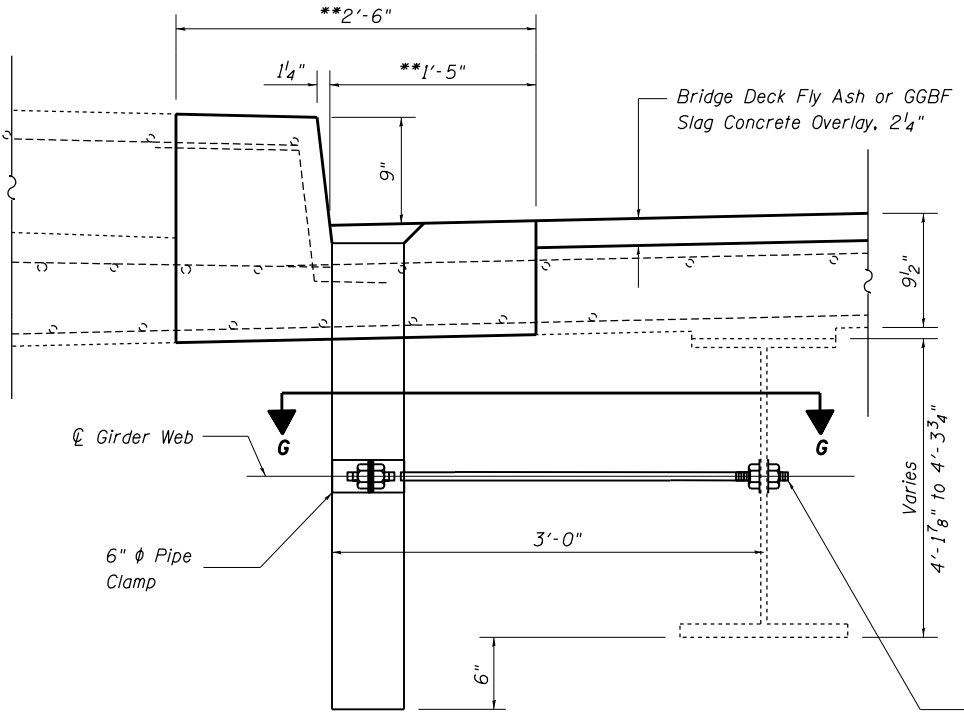
SCALE: SHEET 8 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	23
CONTRACT NO. 74615			ILLINOIS FED. AID PROJECT	



SECTION THRU EXISTING FLOOR DRAIN AT SIDEWALK

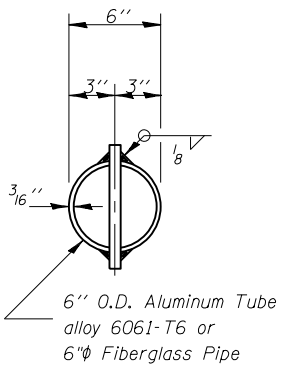
SECTION THRU EXISTING FLOOR DRAIN AT MEDIAN



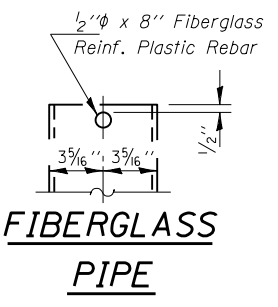
DRAIN REPLACEMENT DETAIL AT SIDEWALK

DRAIN REPLACEMENT DETAIL AT MEDIAN

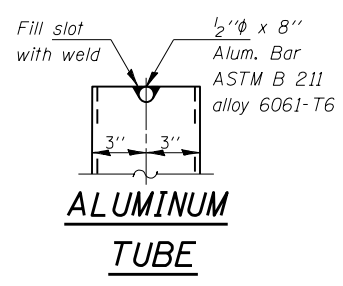
TOP PLAN



TOP PLAN (Showing Aluminum Tube)



FIBERGLASS PIPE



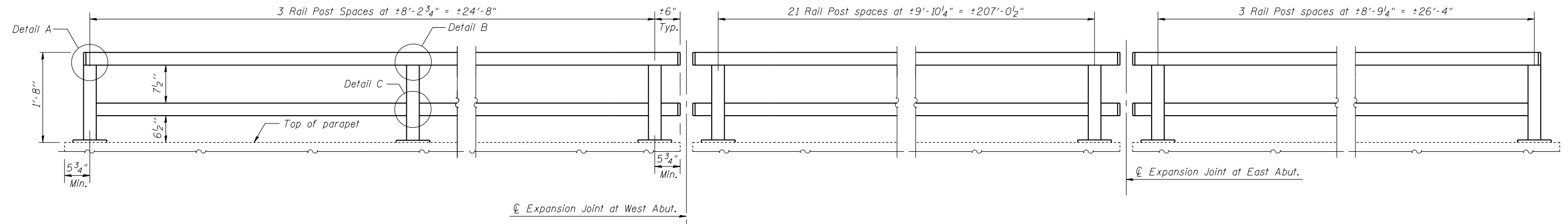
ALUMINUM TUBE

Note: See "Bridge Deck Patching" plan sheets for Floor Drain replacement location and Floor Drain Removal locations. See "Total Bill of Materials" for quantities.

Notes: The floor drains shall be painted to match the outside of the fascia beams. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Specification SSPC-SPI prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize clamping device according to AASHTO M232. Cost of clamping device and galvanizing is included with Floor Drains.

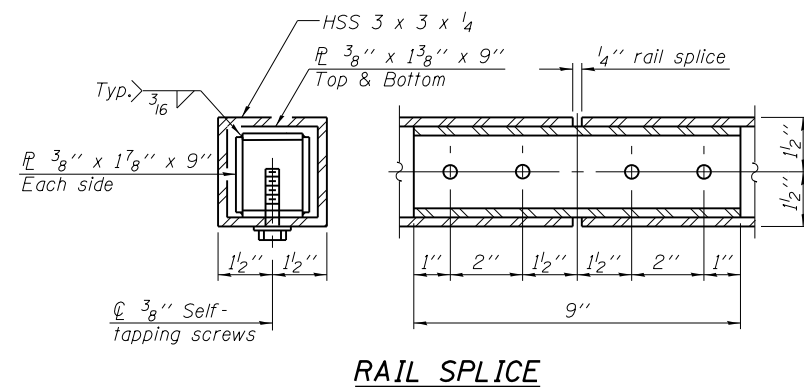
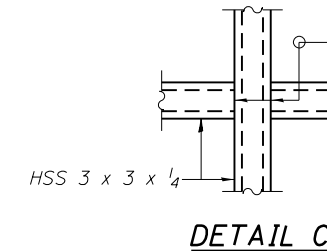
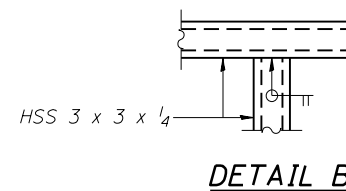
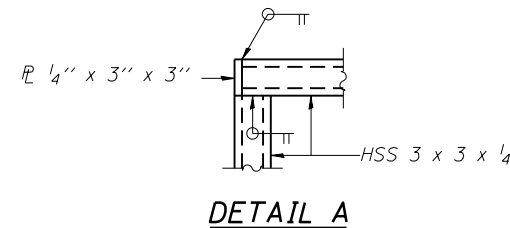
Note: Concrete removal and replacement quantities for drains are included in Deck Slab Repair (Full Depth, Type II) as shown on "Bridge Deck Patching" plan sheets.

FILE NAME =	USER NAME = steffenmk	DESIGNED - DFZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK DRAIN DETAILS SN. 087-0020			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	ei:\pw\work\p\dot\steffenmk\d0187065\074615-shr-brd\details.dgn	DRAWN - DFZ	REVISED -					325	(11B-1)BR	SHELBY	32	24
	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -					CONTRACT NO. 74615				
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET 9	OF 17 SHEETS	STA.	TO STA.				

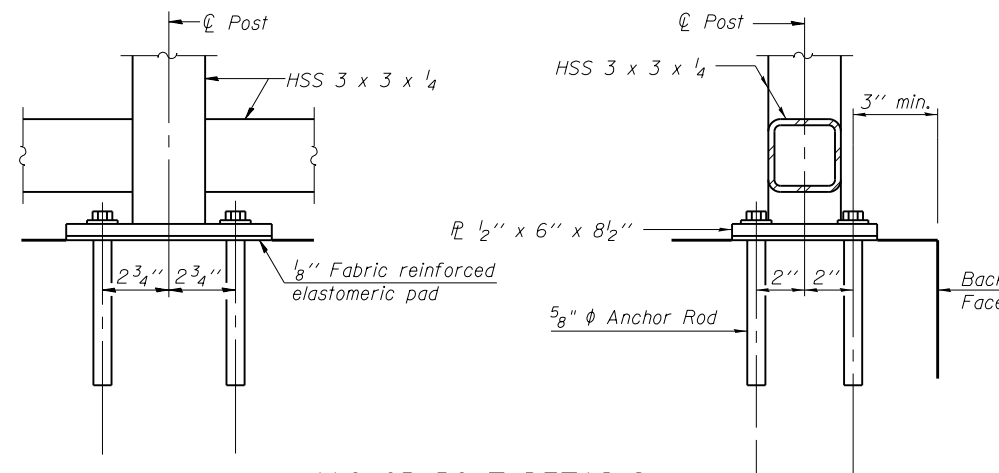


**NORTH PARAPET RAILING
ELEVATION**

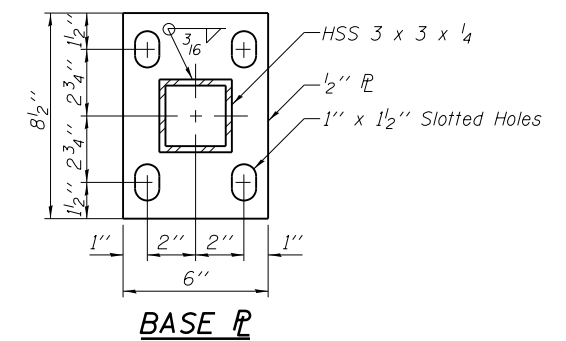
Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



(10'-0" Maximum Post Spacing)



The Contractor shall drill and set 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	262

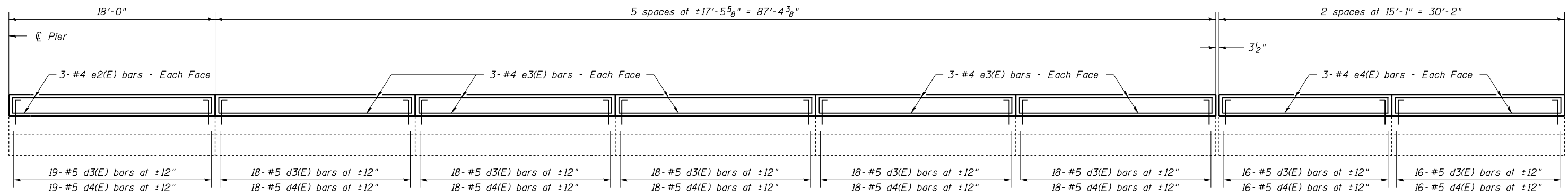
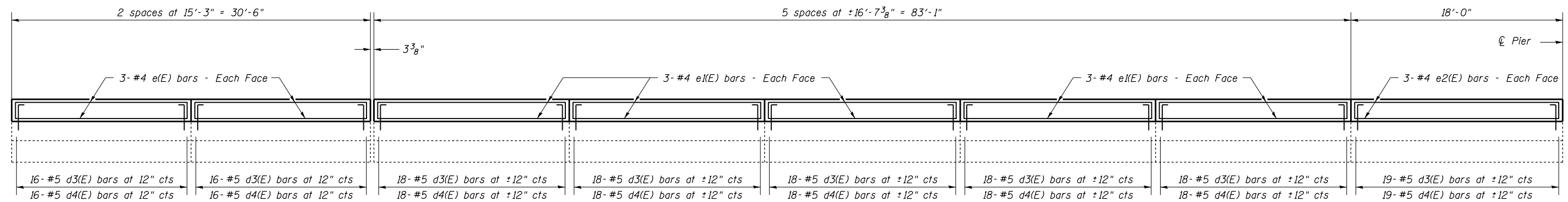
FILE NAME =	USER NAME = steffenmk	DESIGNED - DFZ	REVISED -
ei:\pw\work\p\idot\steffenmk\d0187065\074615-shit-brdetails.dgn		DRAWN - DFZ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

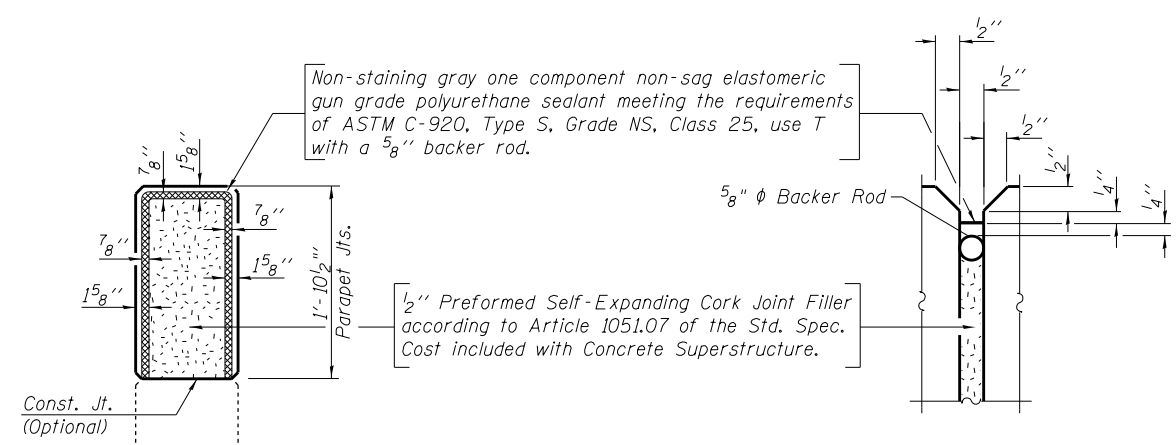
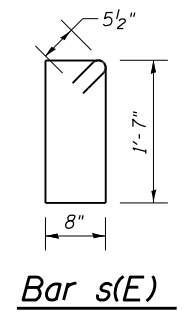
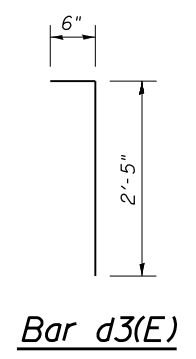
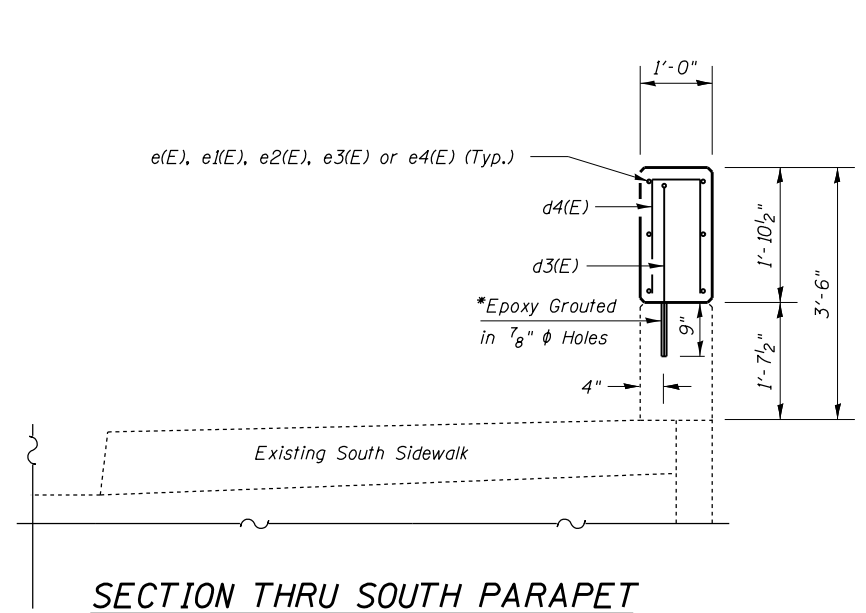
**NORTH PARAPET RAILING
SN. 087-0020**

SCALE: SHEET 11 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74615	



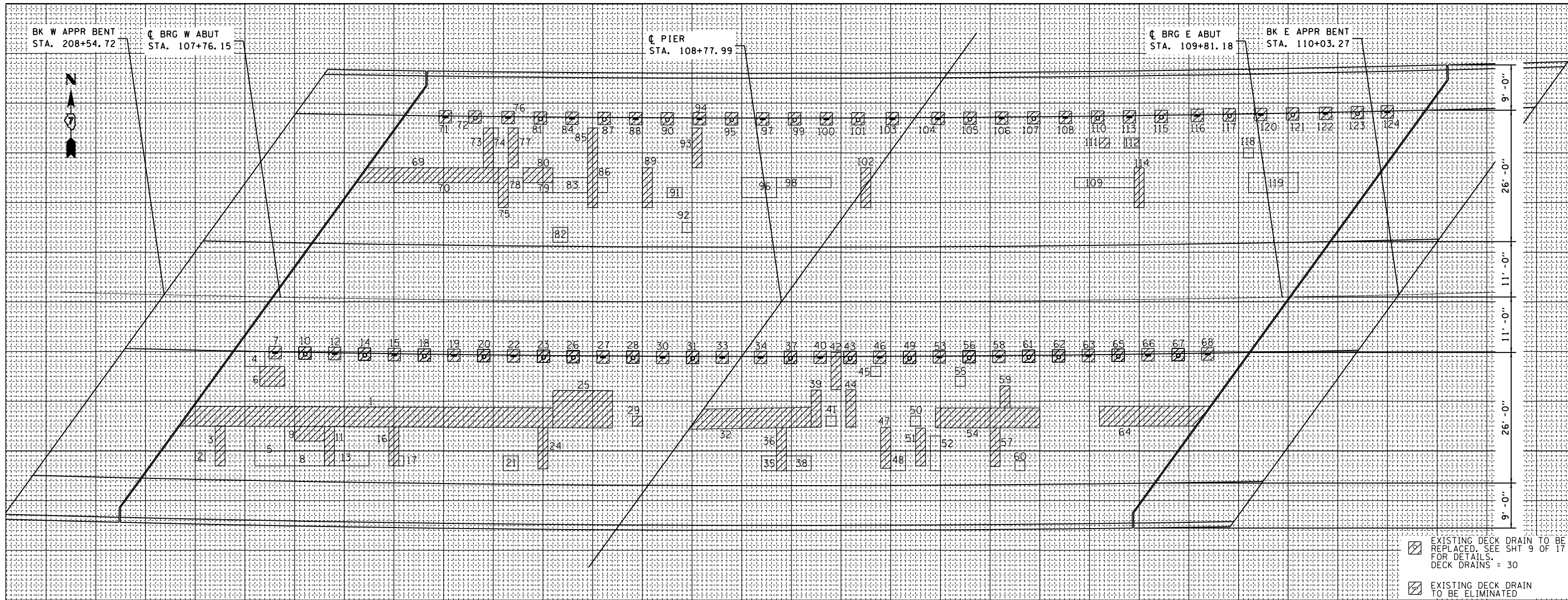
SOUTH PARAPET ELEVATION
Showing Outside Face of Parapet



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d3(E)	282	#5	2'-11"	□
e(E)	12	#4	15'-0"	—
e1(E)	30	#4	16'-4"	—
e2(E)	12	#4	17'-9"	—
e3(E)	30	#4	17'-2"	—
e4(E)	12	#4	14'-10"	—
s(E)	282	#5	5'-5"	□
Reinforcement Bars, Epoxy Coated			Pound	3510
Concrete Superstructure			Cu. Yds.	18.5

*Epoxy grouted bars in accordance with Article 584 of the Standard Specifications. Cost included with REINFORCEMENT BARS, EPOXY COATED.



[Symbol] EXISTING DECK DRAIN TO BE REPLACED. SEE SHT 9 OF 17 FOR DETAILS. DECK DRAINS = 30
 [Symbol] EXISTING DECK DRAIN TO BE ELIMINATED

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
1	4.0 x 74.0			296.0
2	2.0 x 2.0	4.0		
3	8.0 x 2.0			16.0
4	3.0 x 4.0	12.0		
5	8.0 x 6.0	48.0		
6	4.0 x 5.0			20.0
7	2.5 x 2.5			6.3
8	3.0 x 8.0	24.0		
9	3.0 x 6.0			18.0
10	2.5 x 2.5			6.3
11	8.0 x 2.0			16.0
12	2.5 x 2.5			6.3
13	3.0 x 7.0	21.0		
14	2.5 x 2.5			6.3
15	2.5 x 2.5			6.3
16	8.0 x 2.0			16.0
17	2.0 x 1.0	2.0		
18	2.5 x 2.5			6.3

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
19	2.5 x 2.5			6.3
20	2.5 x 2.5			6.3
21	3.0 x 3.0	9.0		
22	2.5 x 2.5			6.3
23	2.5 x 2.5			6.3
24	8.0 x 2.0			16.0
25	8.0 x 12.0			96.0
26	2.5 x 2.5			6.3
27	2.5 x 2.5			6.3
28	2.5 x 2.5			6.3
29	2.0 x 2.0		4.0	
30	2.5 x 2.5			6.3
31	2.5 x 2.5			6.3
32	4.0 x 24.0			96.0
33	2.5 x 2.5			6.3
34	2.5 x 2.5			6.3
35	3.0 x 3.0	9.0		
36	8.0 x 2.0			16.0

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
37	2.5 x 2.5			6.3
38	3.0 x 5.0	15.0		
39	8.0 x 2.0			16.0
40	2.5 x 2.5			6.3
41	2.0 x 2.0	4.0		
42	8.0 x 2.0			16.0
43	2.5 x 2.5			6.3
44	8.0 x 2.0			16.0
45	2.0 x 2.0	4.0		
46	2.5 x 2.5			6.3
47	8.0 x 2.0			16.0
48	4.0 x 3.0	12.0		
49	2.5 x 2.5			6.3
50	2.0 x 2.0	4.0		
51	8.0 x 2.0			16.0
52	7.0 x 2.0	14.0		
53	2.5 x 2.5			6.3
54	4.0 x 21.0			84.0

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
55	2.0 x 2.0	4.0		
56	2.5 x 2.5			6.3
57	8.0 x 2.0			16.0
58	2.5 x 2.5			6.3
59	4.0 x 2.0			8.0
60	2.0 x 2.0	4.0		
61	2.5 x 2.5			6.3
62	2.5 x 2.5			6.3
63	2.5 x 2.5			6.3
64	4.0 x 21.0			84.0
65	2.5 x 2.5			6.3
66	2.5 x 2.5			6.3
67	2.5 x 2.5			6.3
68	2.5 x 2.5			6.3
TOTAL STAGE I		190	4.0	1080

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
GRAND TOTAL		425	4	1512
PARTIAL DEPTH				
425 / 9 =		47.2		
USE		47	\$0	YD
FULL DEPTH, TYPE 1				
8 / 9 =		0.9		
USE		1	\$0	YD
FULL DEPTH, TYPE 2				
1512 / 9 =		168.0		
USE		168	\$0	YD

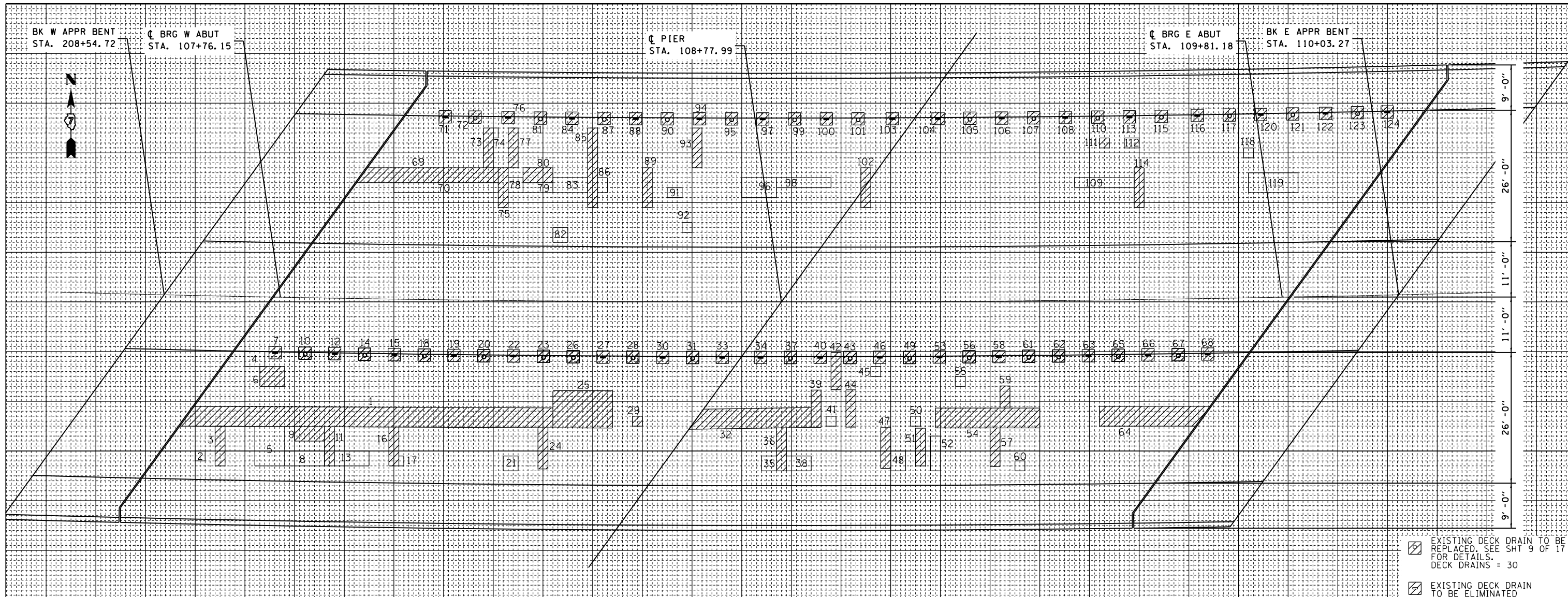
THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.

PATCHING LEGEND
 [Symbol] PARTIAL DEPTH (FOR INFORMATION ONLY)
 [Symbol] FULL DEPTH

DATE OF SURVEY: 9-12-12
 SURVEY BY: MEA, DFZ
 METHOD OF SURVEY: VISUAL

BRIDGE DECK PATCHING
 SHELBY COUNTY
 IL 16
 SN 087-0020

020



EXISTING DECK DRAIN TO BE REPLACED. SEE SHT 9 OF 17 FOR DETAILS. DECK DRAINS = 30
 EXISTING DECK DRAIN TO BE ELIMINATED

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
69	3.0 x 27.0			81.0
70	2.0 x 21.0	42.0		
71	2.5 x 2.5			6.3
72	2.5 x 2.5			6.3
73	8.0 x 2.0			16.0
74	2.0 x 1.0	2.0		
75	8.0 x 2.0			16.0
76	2.5 x 2.5			6.3
77	8.0 x 2.0			16.0
78	3.0 x 3.0	9.0		
79	2.0 x 6.0	12.0		
80	3.0 x 6.0			18.0
81	2.5 x 2.5			6.3
82	3.0 x 3.0	9.0		
83	3.0 x 7.0	21.0		
84	2.5 x 2.5			6.3
85	16.0 x 2.0			32.0
86	3.0 x 2.0	6.0		

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
87	2.5 x 2.5			6.3
88	2.5 x 2.5			6.3
89	8.0 x 2.0			16.0
90	2.5 x 2.5			6.3
91	2.0 x 3.0	6.0		
92	2.0 x 2.0	4.0		
93	8.0 x 2.0			16.0
94	2.5 x 2.5			6.3
95	2.5 x 2.5			6.3
96	4.0 x 7.0	28.0		
97	2.5 x 2.5			6.3
98	2.0 x 11.0	22.0		
99	2.5 x 2.5			6.3
100	2.5 x 2.5			6.3
101	2.5 x 2.5			6.3
102	8.0 x 2.0			16.0
103	2.5 x 2.5			6.3
104	2.5 x 2.5			6.3

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
105	2.5 x 2.5			6.3
106	2.5 x 2.5			6.3
107	2.5 x 2.5			6.3
108	2.5 x 2.5			6.3
109	2.0 x 12.0	24.0		
110	2.5 x 2.5			6.3
111	2.0 x 2.0		4.0	
112	2.0 x 3.0	6.0		
113	2.5 x 2.5			6.3
114	8.0 x 2.0			16.0
115	2.5 x 2.5			6.3
116	2.5 x 2.5			6.3
117	2.5 x 2.5			6.3
118	2.0 x 2.0	4.0		
119	4.0 x 10.0	40.0		
120	2.5 x 2.5			6.3
121	2.5 x 2.5			6.3
122	2.5 x 2.5			6.3

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
123	2.5 x 2.5			6.3
124	2.5 x 2.5			6.3
TOTAL STAGE II		235	4.0	432

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SO FT	SO FT	SO FT
GRAND TOTAL		425	4	1512
PARTIAL DEPTH				
425 / 9 =		47.2		
USE		47	\$0 YD	
FULL DEPTH, TYPE 1				
8 / 9 =		0.9		
USE		1	\$0 YD	
FULL DEPTH, TYPE 2				
1512 / 9 =		168.0		
USE		168	\$0 YD	

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.

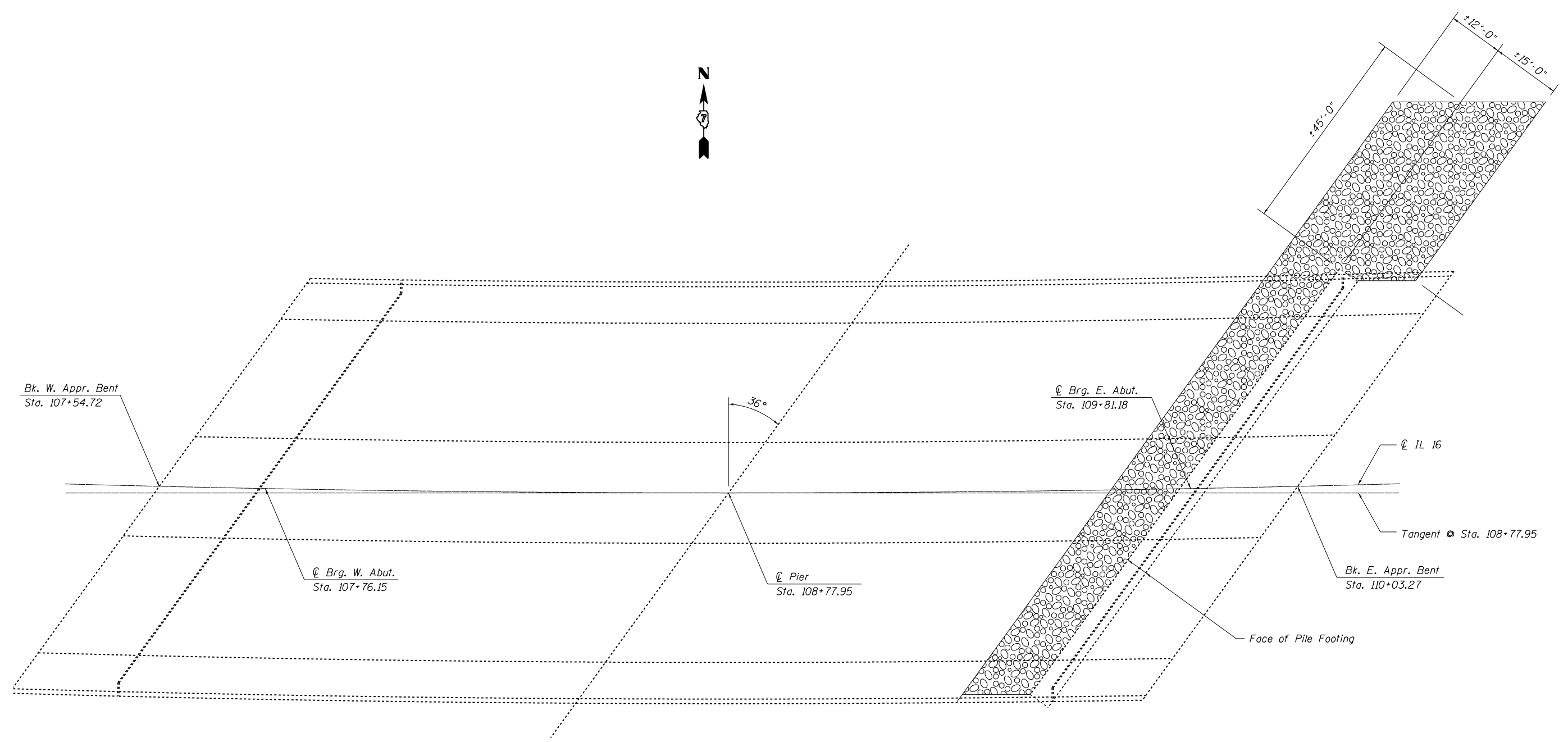
PATCHING LEGEND

PARTIAL DEPTH (FOR INFORMATION ONLY)
 FULL DEPTH

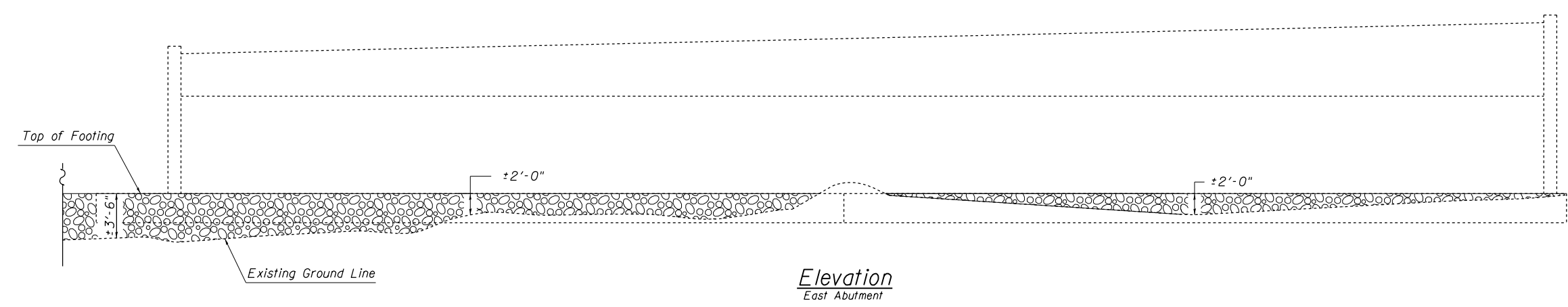
DATE OF SURVEY: 9-12-12
 SURVEY BY: MEA, DFZ
 METHOD OF SURVEY: VISUAL

BRIDGE DECK PATCHING
 SHELBY COUNTY
 IL 16
 SN 087-0020

020



PLAN



Elevation
East Abutment

BILL OF MATERIAL

Item	Unit	Total
PrefStone Dumped Riprap, Class A5	Ton	196

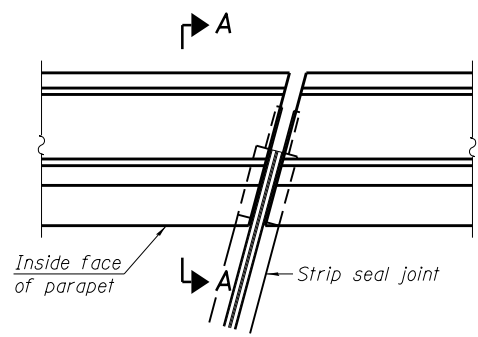
FILE NAME =	USER NAME = steffenmk	DESIGNED - DFZ	REVISED -
ei:\pw\work\p\idot\steffenmk\d0187065\0774615-shr-brd\details.dgn		DRAWN - DFZ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 12/12/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

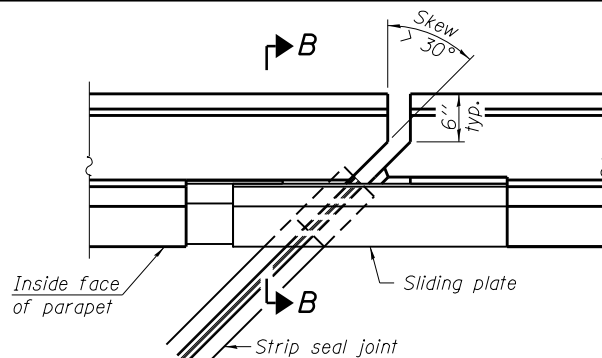
**RIPRAP
SN. 087-0020**

SCALE: SHEET 15 OF 17 SHEETS STA. TO STA.

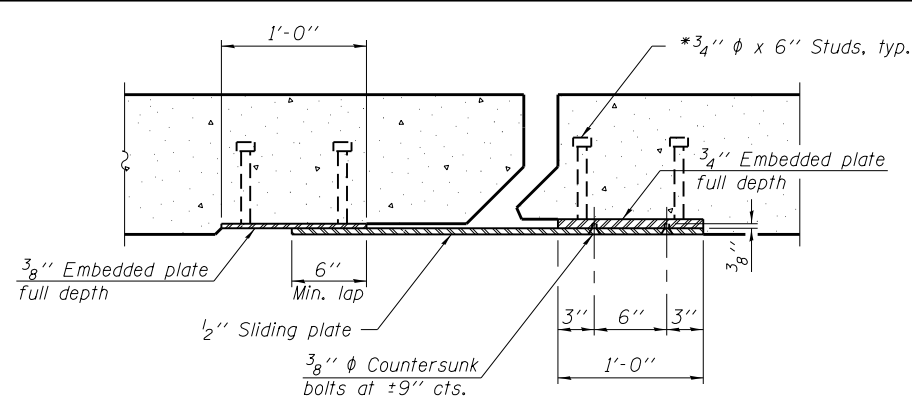
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-1)BR	SHELBY	32	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74615	



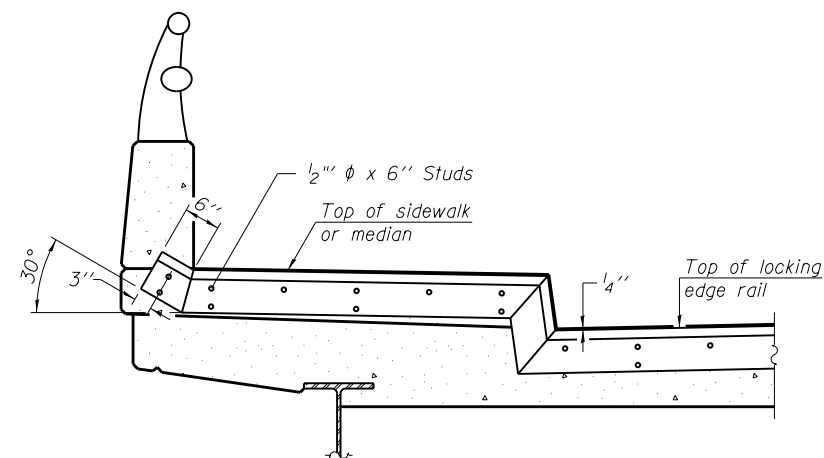
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

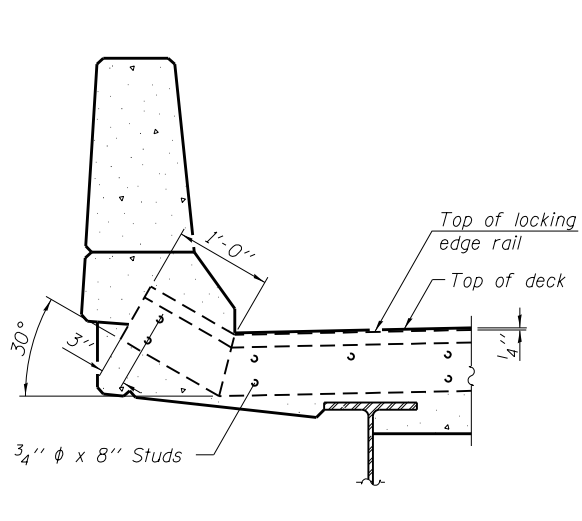


SECTION C-C

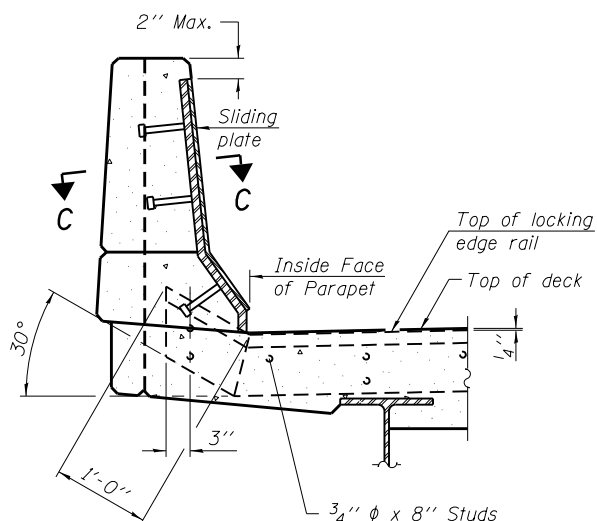


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

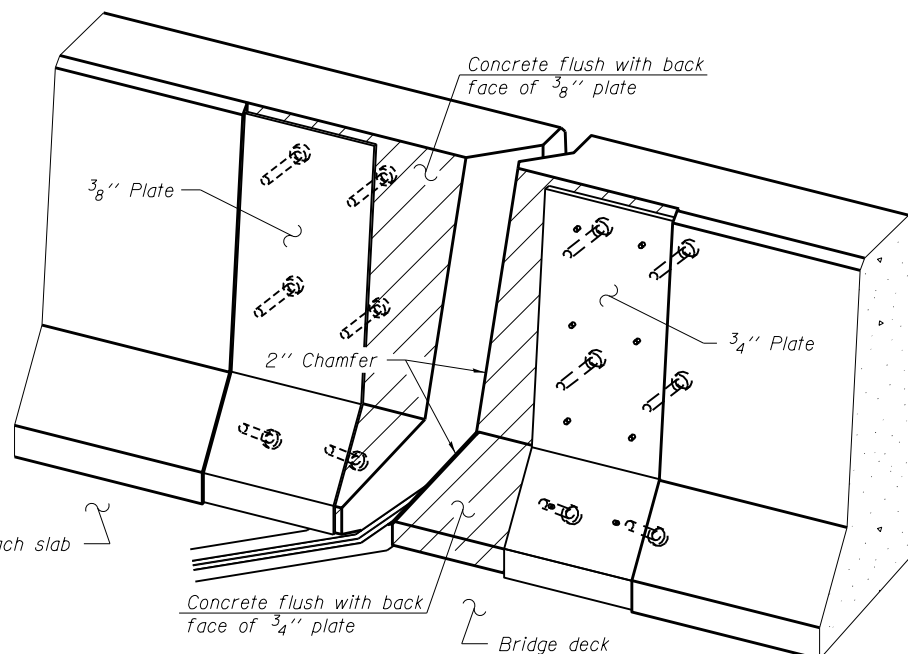
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue.

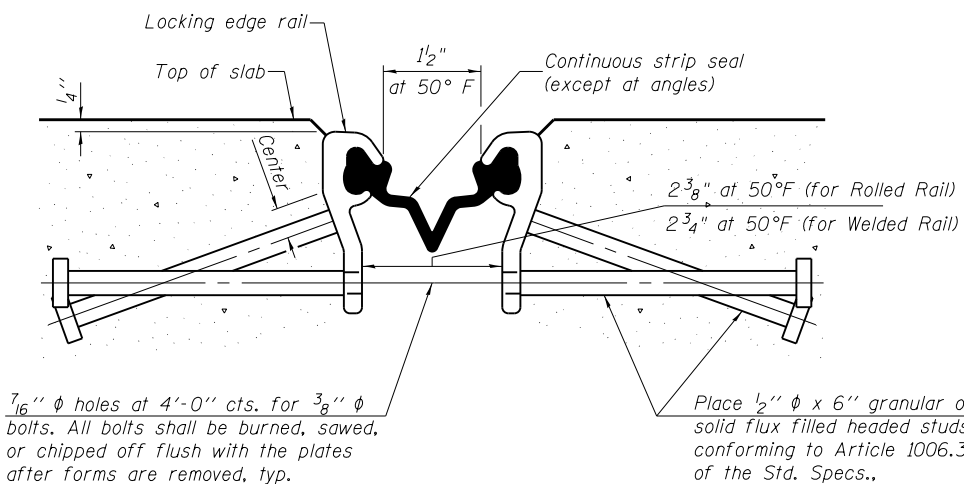
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3#16", sealed with a suitable sealant.

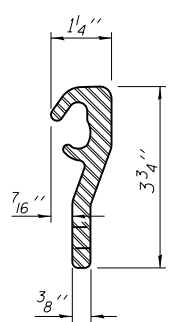
Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



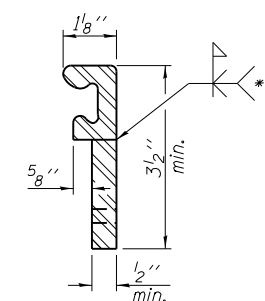
SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS

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.

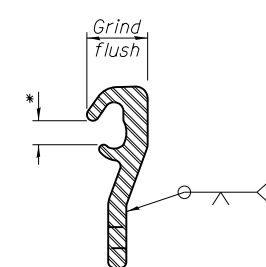
Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



ROLLED (EXTRUDED) RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

Rolled rail shown, welded rail similar.

- * Omit weld at seal opening.
- ** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	230.0

FILE NAME =	USER NAME = steffenmk	DESIGNED - DFZ	REVISED -
ei:\pw_work\p\idot\steffenmk\d0187065\0774615-shit-brd\details.dgn		DRAWN - DFZ	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - MEA	REVISED -
	PLOT DATE = 3/28/2013	DATE - 10/31/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN. 087-0020

SCALE: SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(11B-11BR)	SHELBY	32	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74615	

