11-04-2016 LETTING ITEM 062

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	D7 BRIDGE REPAIRS 2017-1	CLAY	25	1
	ILLINOIS	CONTRACT NO. 74707		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D-97-012-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 5100 VEH /DAY (2015)

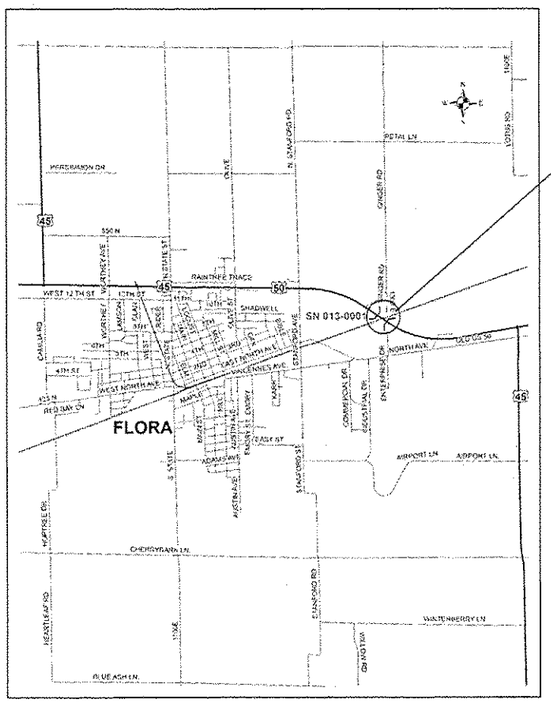
PROPOSED HIGHWAY PLANS

FAP ROUTE 327 US 45 & US 50
SECTION D7 BRIDGE REPAIRS 2017-1

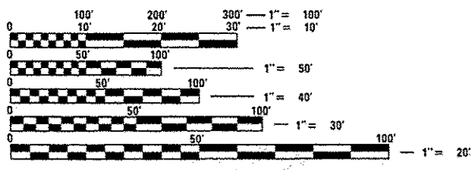
BRIDGE REPAIR
CLAY COUNTY

C-97-018-15

LOCATION OF SECTION INDICATED THUS: –



GROSS LENGTH = 900 FT. = 0.17 MILE
NET LENGTH = 900 FT. = 0.17 MILE



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 17 20 16
Jeffrey M Southhard
REGIONAL ENGINEER

Sept 30 20 16
Maureen M. Addis, PE
ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 20 16
DIRECTOR OF PROGRAM DEVELOPMENT

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: ROSS BIERMAN

CONTRACT NO. 74707

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	CORE INFORMATION
6	SCHEDULE OF QUANTITIES
7	TYPICAL CROSS SECTIONS
8	STAGE I TRAFFIC CONTROL
9	STAGE II TRAFFIC CONTROL
10-21	STRUCTURE REPAIR PLANS
22-25	PAVEMENT MARKING DETAILS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 49:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
701001-02	OFF-ROAD OPERATIONS, 2L2W, 15' MINIMUM AWAY FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS, 2L2W, 15' AWAY TO EDGE OF PAVEMENT
701011-04	OFF-ROAD MOVING OPERATION, 2L2W, DAY ONLY
701201-04	LANE CLOSURE, 2L2W, DAY ONLY
701301-04	LANE CLOSURE, 2L2W, SHORT TIME OPERATIONS
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-15	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED APRIL 1, 2016; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN SECTION D7 BRIDGE REPAIRS 2017-1 CONSISTS OF BASE COURSE WIDENING, NEW EXPANSION JOINTS, BEARING REPLACEMENT, NEW DECK DRAINS, REMOVE AND REPLACE THE WEARING SURFACE, PAVEMENT MARKING, DECK PATCHING TRAFFIC CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION. THE WORK SHALL BE COMPLETED UTILIZING STAGE CONSTRUCTION WITH TEMPORARY TRAFFIC SIGNALS. THE EXISTING STRUCTURE NUMBER 013-0001, CARRIES US ROUTES 45/50 OVER THE CSXT RAILROAD AND IS LOCATED APPROXIMATELY 3 MILES EAST OF US ROUTE 45 IN CLAY COUNTY.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

GENERAL NOTES (CONT' D)

THE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH STAGE I & II OF STANDARD 701321 SHALL BE REMOVED. THE REMOVED MARKINGS WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 200 FEET OF YELLOW AND 1600 FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 4 TWO-WAY AMBER MARKERS.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

THE BITUMINOUS MATERIALS (TACK COAT)SHALL BE DONE IN ACCORDANCE WITH SECTION 406. THIS SHALL BE INCLUDED IN THE PRICE OF THE HMA SURFACE COURSE.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE EXISTING PAVED SHOULDER THAT WILL BE REMOVED HAS BEEN CORED FOR THICKNESS AND THE RESULTS ARE ATTACHED ON PAGE 5.

FILTER FABRIC WILL BE USED TO COVER THE BALLAST ALONG THE RAILROAD TRACKS. THE FILTER FABRIC SHALL BE REMOVED ONCE THE CONSTRUCTION IS COMPLETE AND SHALL BE INCLUDED IN THE COST OF THE FILTER FABRIC FILTER FABRIC IS TO PREVENT DEBRIS FROM COVERING BALLAST FROM THE BRIDGE CONSTRUCTION AND BE PLACED FROM THE TRACKS TO SLOPE WALLS AND EXTEND 25 FT NORTH AND SOUTH OF BRIDGE.

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK FLY ASH OR GGBF CONCRETE OVERLAY. SEE SPECIAL PROVISIONS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

SURFACE COURSE (1.5")

APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N90
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN = 90
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE D

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS./SQ. FT.
HOT-MIX ASPHALT	112 LBS./SQ. YD/INCH

• D7 BRIDGE REPAIRS 2017-1

FILE NAME =	USER NAME = staffenmk	DESIGNED -	REVISED -
pw:\\IL004EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\DRAWINGS\C90sheets\D774707-sht-gennotes.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND GENERAL NOTES

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	2
		CONTRACT NO. 74707		
	ILLINOIS FED. AID PROJECT			

100 % STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0014		
28200200	FILTER FABRIC	SQ YD	153	153		
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING	SQ YD	344	344		
	10"					
40600990	TEMPORARY RAMP	SQ YD	73	73		
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	10	10		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	344	344		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	109	109		
44004250	PAVED SHOULDER REMOVAL	SQ YD	344	344		
50102400	CONCRETE REMOVAL	CU YD	19.8	19.8		
50157300	PROTECTIVE SHIELD	SQ YD	237	237		
50300100	FLOOR DRAINS	EACH	16	16		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.8	19.8		
50300260	BRIDGE DECK GROOVING	SQ YD	578	578		
50300300	PROTECTIVE COAT	SQ YD	33	33		

100 % STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0014		
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3070	3070		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1950	1950		
50800515	BAR SPLICERS	EACH	24	24		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	85	85		
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6	6		
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6	6		
52100520	ANCHOR BOLTS, 1"	EACH	24	24		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4	4		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1		
	701321					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701201					
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1		
	701326					

11

12

• D7 BRIDGE REPAIRS 2017-1

FILE NAME = pw:\\IL084EBIOINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\7470\Drawings\CADsheets\0774707-sht-SOD.dgn	USER NAME = steffanmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 120.0222 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/25/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	3
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

100 % STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0014		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	80	80		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	53	53		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1800	1800		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1800	1800		
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4		
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	600	600		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		

100 % STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0014		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	6	6		
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12		
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	1420	1420		
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	598	598		
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	1	1		
Z0012113	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 3	SQ YD	598	598		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	598	598		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	80	80		
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	5	5		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	51	51		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1		

B

* SPECIALTY ITEM

11

• D7 BRIDGE REPAIRS 2017-1

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADSheets\D774707-sht-SUM.dgn Default	USER NAME = staffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/25/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	4
		CONTRACT NO. 74707		
	ILLINOIS	FED. AID PROJECT		

SHOULDER CORES - FOR INFORMATION ONLY

Illinois Department of Transportation

Core Drill Report
Investigative Cores for Highway design

Sheet of sheets

District 7

County: Clay

Section: D7 Bridge Repairs 2017-1

Route: US 50

District: 7
Contract No.: 74707
Job No.:

Project : US 50 over RR

Customer: _____

Dates 4-14-16 to _____

City Flora Route or Street location US 50 over RR

Core	Date Cored	Station/Description	Offset	Thickness of Core Material Type Encountered	Core Physical Condition
1	4/14/16	733+50 EB	13.5' RT	12" Asphalt	Poor
2	4/14/16	735+08 EB	13.5' RT	8 ½" Asphalt	V Poor
3	4/14/16	737+87 EB	15' RT	9 ¼" Asphalt	Poor
4	4/14/16	739+07 EB	15' RT	10 ½" Asphalt	Poor
5	4/14/16	739+07 WB	13' LT	15 ½" Asphalt	Decent
6	4/14/16	739+32 WB	15.5' LT	9 ¼" Asphalt	Poor
7	4/14/16	735+33 WB	15.5' LT	12" Asphalt	Poor
8	4/14/16	733+65 WB	13.5' LT	10.5" Asphalt	Poor

Core Drill Operator/Supervisor: Eric Sandschafer

S: drill rig/coring/investigative core drill report.doc

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CAEsheets\D774707-sht-plan.dgn Default	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHOULDER CORES

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	5
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

PAVING SCHEDULE

	STATION	TO	STATION	HOTMIX ASPHALT SURFACE COURSE, MIX C, NTO (TON)	HOT MIX ASPHALT SURFACE REMOVAL 1 1/2" (SQ YD)	TEMPORARY RAMP (SQ YD)
	S.N. 013-0001					
	STA 735+60	TO	STA 735+75	4.6	54.2	36.1
	STA 737+50	TO	STA 737+65	4.6	54.2	36.1
			TOTAL:	10	109	73

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	PAINT PAVEMENT MARKING - LINE 4" (FOOT)	PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY PAVEMENT MARKING 4" (FOOT)	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	RAISEDREFLECTIVE PAVEMENT MARKERS (BRIDGE) (EACH)
S.N. 013-0001								
733+00	TO	741+00	1800	600	1800	80	53	4

WIDENING SCHEDULE

STATION	TO	STATION	LOCATION	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 10" (SQ YD)	WELDED WIRE REINFORCEMENT (SQ YD)
S.N. 013-0001					
737+63.00	TO	739+44.00	NE	81.3	81.3
733+81.00	TO	735+84.00	NW	90.7	90.7
737+41.00	TO	739+44.00	SE	90.7	90.7
733+81.00	TO	735+62.00	SW	81.3	81.3
		TOTAL:		344	344

TRAFFIC CONTROL DEVICES

LOCATION	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (EACH)	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 (EACH)
S.N. 013-0001				
734+20 TO 739+07	487.5	487.5	2.0	2.0

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADsheets\D774707-sht-schedule.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

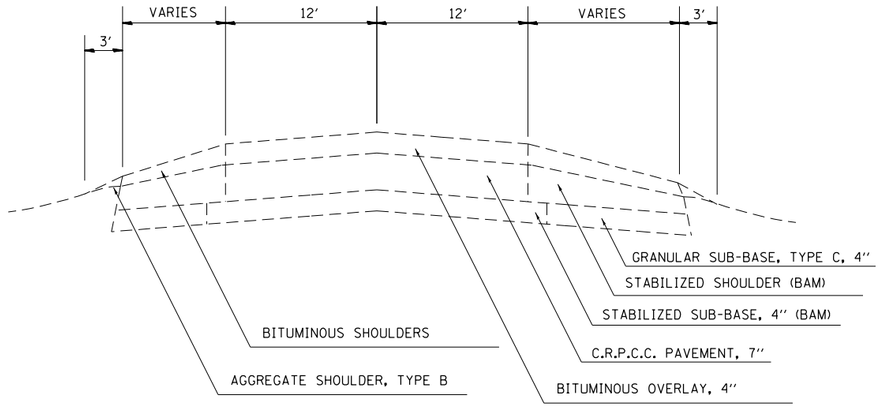
SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	6
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

EXISTING TYPICAL CROSS SECTION

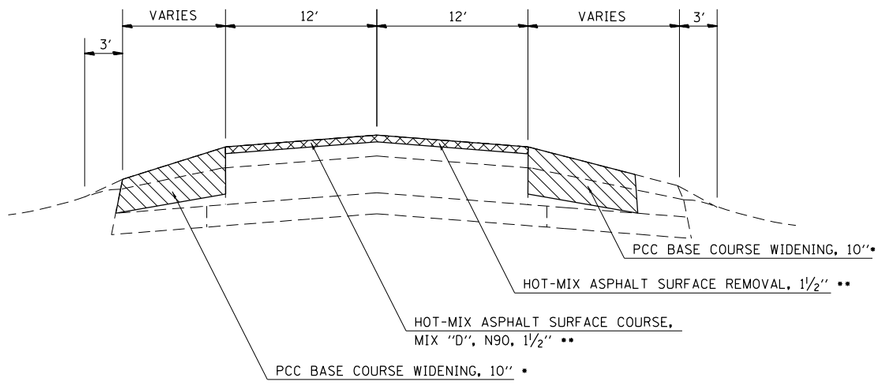
U.S. ROUTE 50
STA 732+00 TO STA 735+76.05
BRIDGE OMISSION STA. 735+76.05 TO STA 737+49.56
STA 737+49.56 TO STA 741+00



NOTE: NOT TO SCALE

PROPOSED TYPICAL CROSS SECTION

U.S. ROUTE 50
STA 732+00 TO STA 735+76.05
BRIDGE OMISSION STA. 735+76.05 TO STA 737+49.56
STA 737+49.56 TO STA 741+00



••HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90, 1 1/2"
STA 735+60 TO STA 735+75
STA 737+50 TO STA 737+65

•PCC BASE COURSE WIDENING, 10"
STA 733+81 TO STA 735+75
STA 737+50 TO STA 737+45

NOTE: NOT TO SCALE

• D7 BRIDGE REPAIRS 2017-1

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADsheets\D774707-sht-typical.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

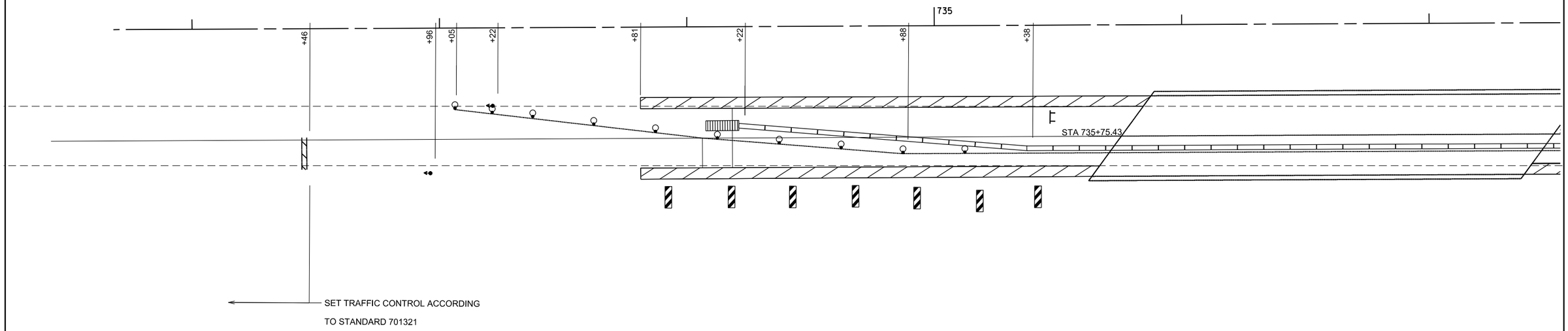
TYPICAL CROSS SECTIONS

SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

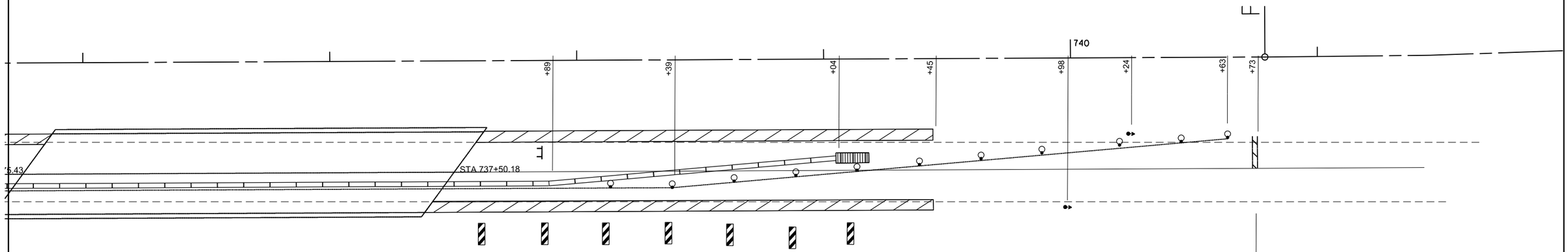
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	7

CONTRACT NO. 74707

ILLINOIS FED. AID PROJECT



*TEMPORARY CONCRETE BARRIER WALL SHALL BE PINNED ON TRAFFIC SIDE AT EACH APPROACH OF BRIDGE



SYMBOLS

- BASE COURSE WIDENING
- Type III barricade
- Traffic signal
- Drum with steady burning bi-directional light
- Impact attenuator
- Temporary concrete barrier
- Double vertical panel (see detail)

• D7 BRIDGE REPAIRS 2017-1

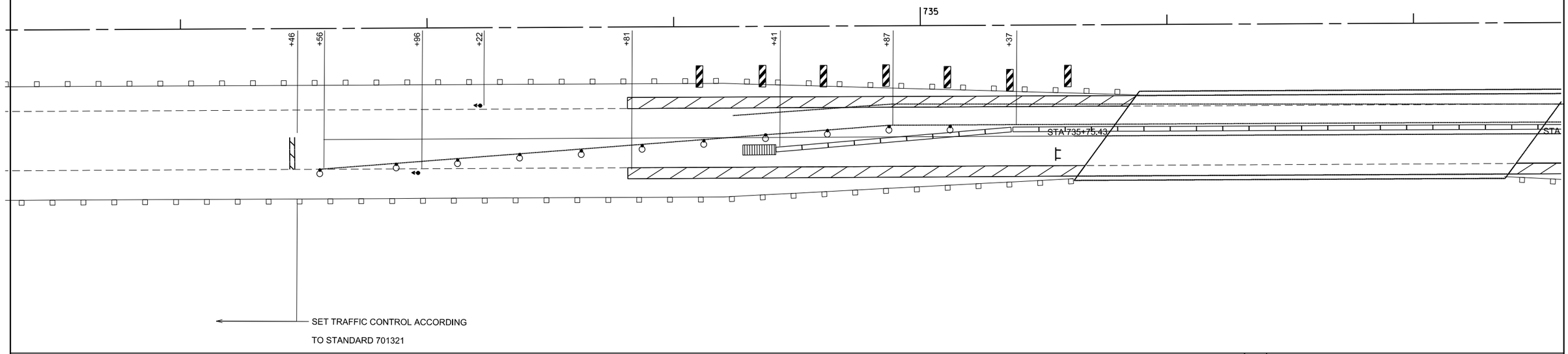
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Drawings\CADsheets\D774707-sht-plan.dgn Default	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

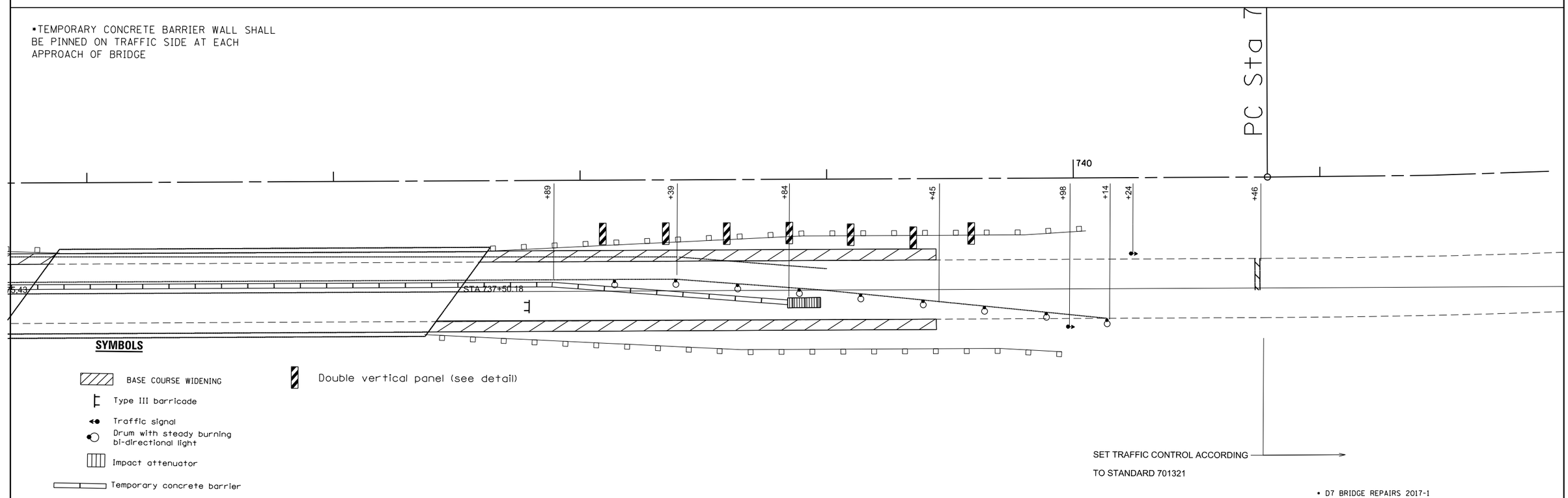
STAGE 1

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 732+00 TO STA. 741+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	8
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		



•TEMPORARY CONCRETE BARRIER WALL SHALL
BE PINNED ON TRAFFIC SIDE AT EACH
APPROACH OF BRIDGE



SYMBOLS

- BASE COURSE WIDENING
- Type III barricade
- Traffic signal
- Drum with steady burning bi-directional light
- Impact attenuator
- Temporary concrete barrier
- Double vertical panel (see detail)

• D7 BRIDGE REPAIRS 2017-1

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADsheets\D774707-sht-plan.dgn Default	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

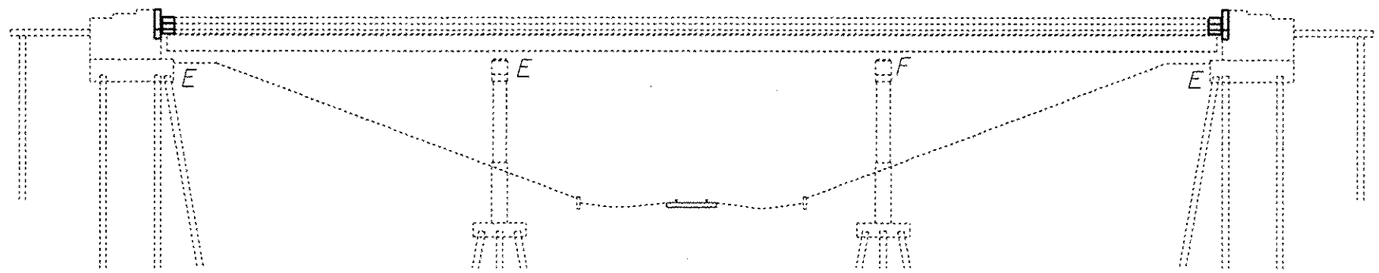
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2

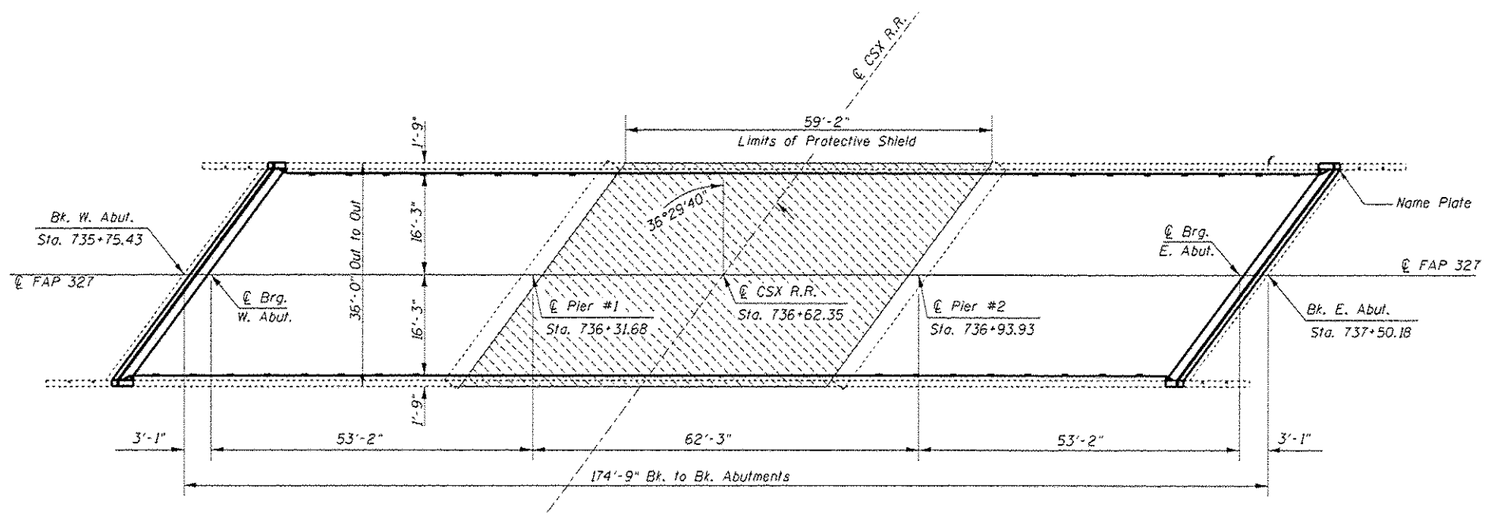
SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 732+00 TO STA. 741+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	9
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

The existing three span continuous steel multi-beam structure was constructed in 1969 as FA RTE 13 section 8-2VB at Sta. 736+62.35. SN. 013-0001 carries FAP RTE 327 (US-50) over CSX Railroad. The proposed project consists of new expansion joints, full depth deck repair, deck drain replacement, new concrete wearing surface, formed concrete repair at abutments, structural steel repair at abutments and bearing replacement at abutments.



ELEVATION



PLAN

Limits of Protective Shield

DESIGN STRESSES (EXISTING)

fc = 1400 psi. Deck. Super.
fc = 1400 psi. Substructure
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struct. (A-36)
vc = 75 psi.
n = 10

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
031-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2016

DESIGNED		PASSED	DATE MARCH 17, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & ELEVATION SN 013-0001	F.A. RTE. 327	SECTION 0-7 Bridge Repair 2017-1
CHECKED		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 1 OF 12 SHEETS	COUNTY CLAY	TOTAL SHEETS 25
DRAWN	D. Wacklin		REVISED			SHEET NO. 10	
CHECKED	ATH					CONTRACT NO. 74707	
						ILLINOIS FED. AID PROJECT	

GENERAL NOTES

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

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, 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.

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.

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

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.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Interstate Green, Munsell No. 7.55 4/8.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Diaphragm connection holes shall be $^{15}/_{16}$"ϕ for $^{3}/_{4}$"ϕ bolts. Two hardened washers shall be required at diaphragm connections.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

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

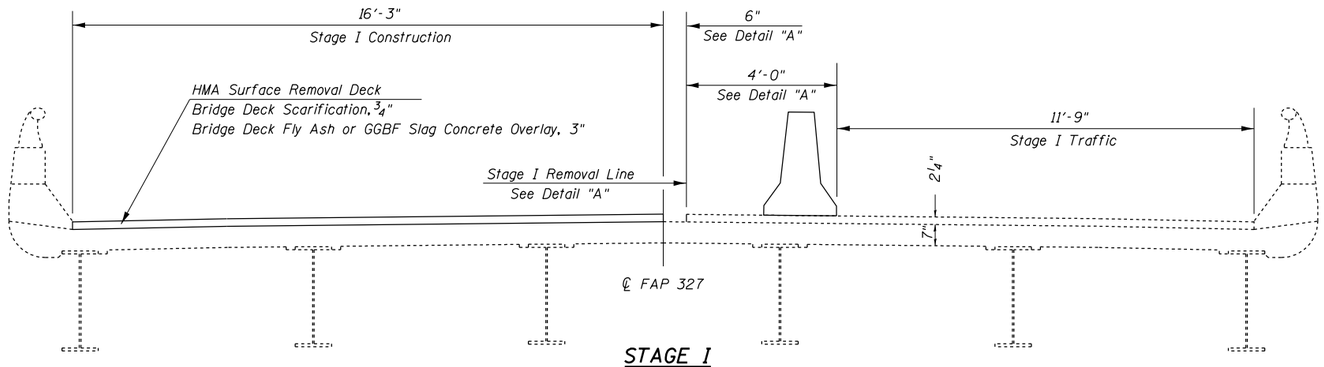
Removal and reinstallation of aluminum railing sections will be necessary for construction of the expansion joints and replacement of deck drains. This work and all materials shall be included in the contract unit price for Concrete Superstructure.

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

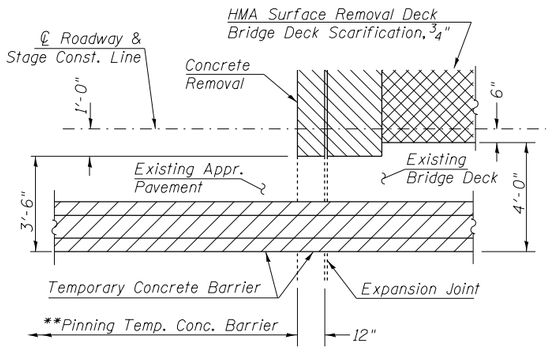
TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
	HMA Surface Removal Deck	Sq. Yd	598
	Bridge Deck Scarification, $^{3}/_{4}$"	Sq. Yd.	598
	Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 3"	Sq. Yd.	598
	Bridge Deck Grooving	Sq. Yd.	578
	Protective Shield	Sq. Yd.	237
	Concrete Removal	Cu. Yd.	19.8
	Concrete Superstructure	Cu. Yd.	19.8
	Preformed Joint Strip Seal	Foot	85
	Reinforcement Bars, Epoxy Coated	Pound	1950
	Bar Splicers	Each	24
*	Protective Coat	Sq. Yd.	33
	Elastomeric Bearing Assembly, Type I	Each	6
	Elastomeric Bearing Assembly, Type II	Each	6
	Anchor Bolts 1"ϕ	Each	24
	Jack and Remove Existing Bearings	Each	12
	Furnishing and Erecting Structural Steel	Pound	3070
	Structural Steel Removal	Pound	1420
	Structural Repair of Concrete (Depth <5")	Sq. Ft.	79.8
	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	51
	Floor Drains	Each	16

* On new concrete superstructure only



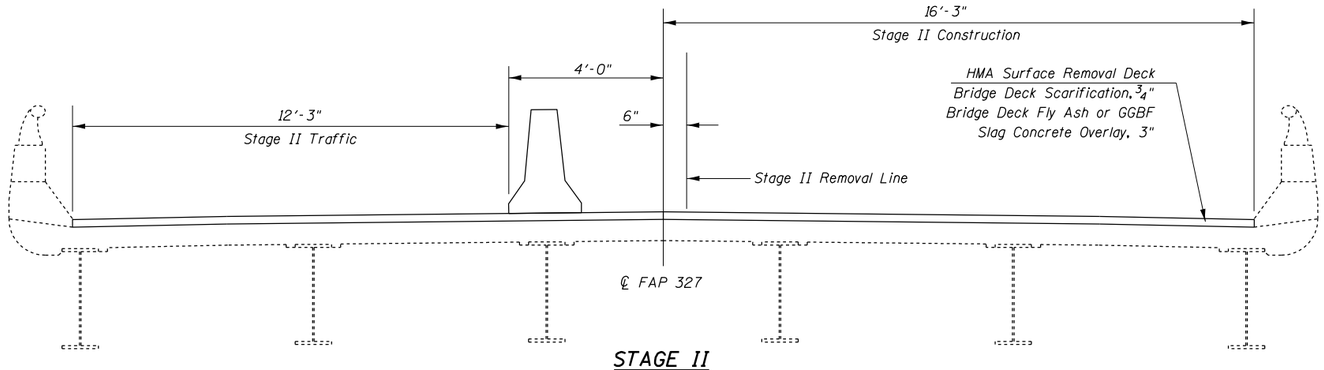
STAGE I
Looking East



Detail "A"

Plan View Showing Stage I Removal Limits Near Abutment
West Abutment Shown, East Abutment Similar

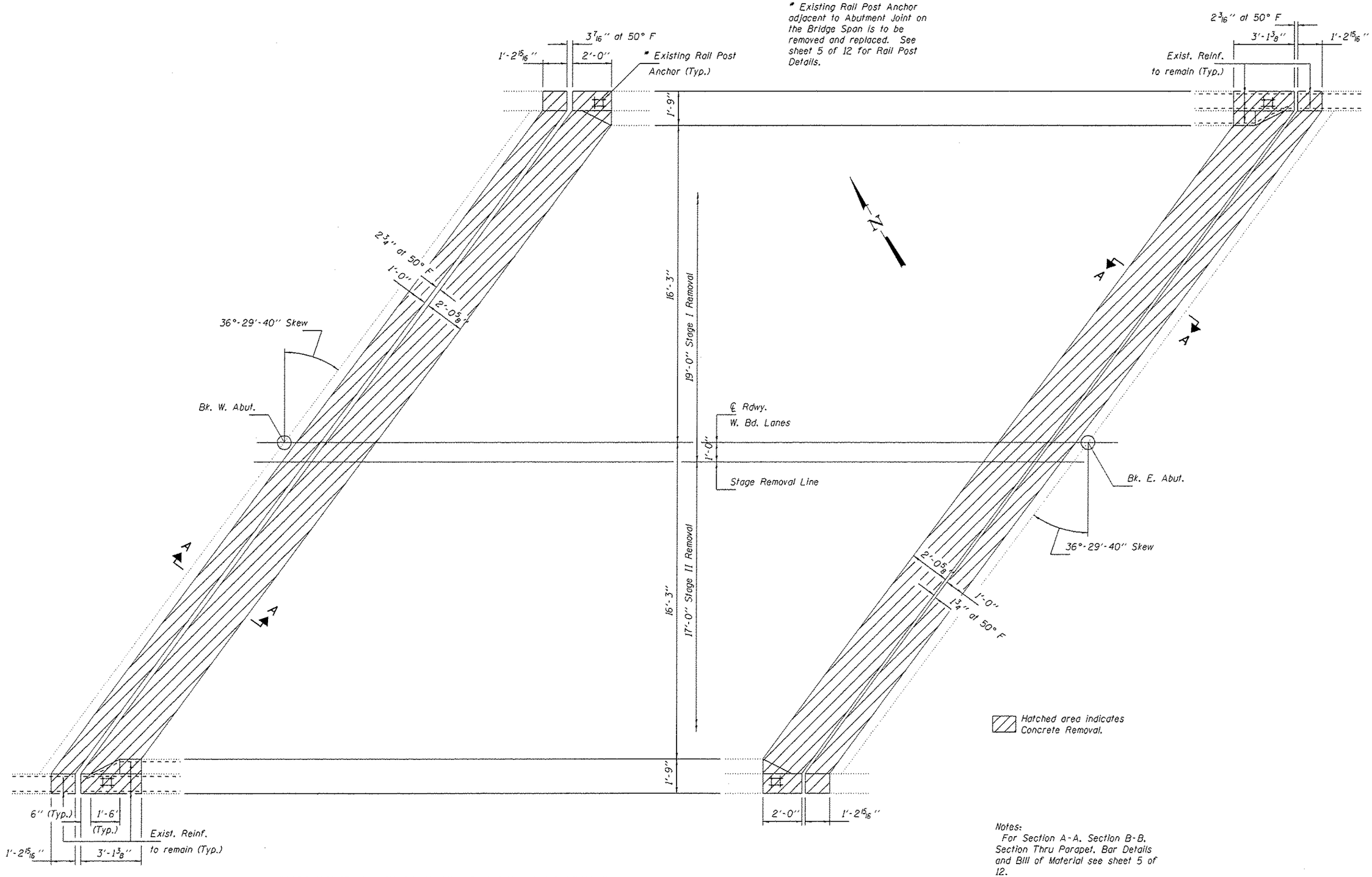
** Temporary Concrete Barriers To Be Pinned on Approaches.
Pinning Not Permitted On Bridge Deck.



STAGE II
Looking East

DESIGNED D. Macklin		DATE MARCH 18, 2016	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GENERAL NOTES & BILL OF MATERIALS SN 013–0001**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED					327	D-7 Bridge Repair 2017-1	CLAY	25	11
DRAWN D. Macklin	PASSED	REVISED					CONTRACT NO. 74707		
CHECKED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 2 OF 12 SHEETS			ILLINOIS FED. AID PROJECT		

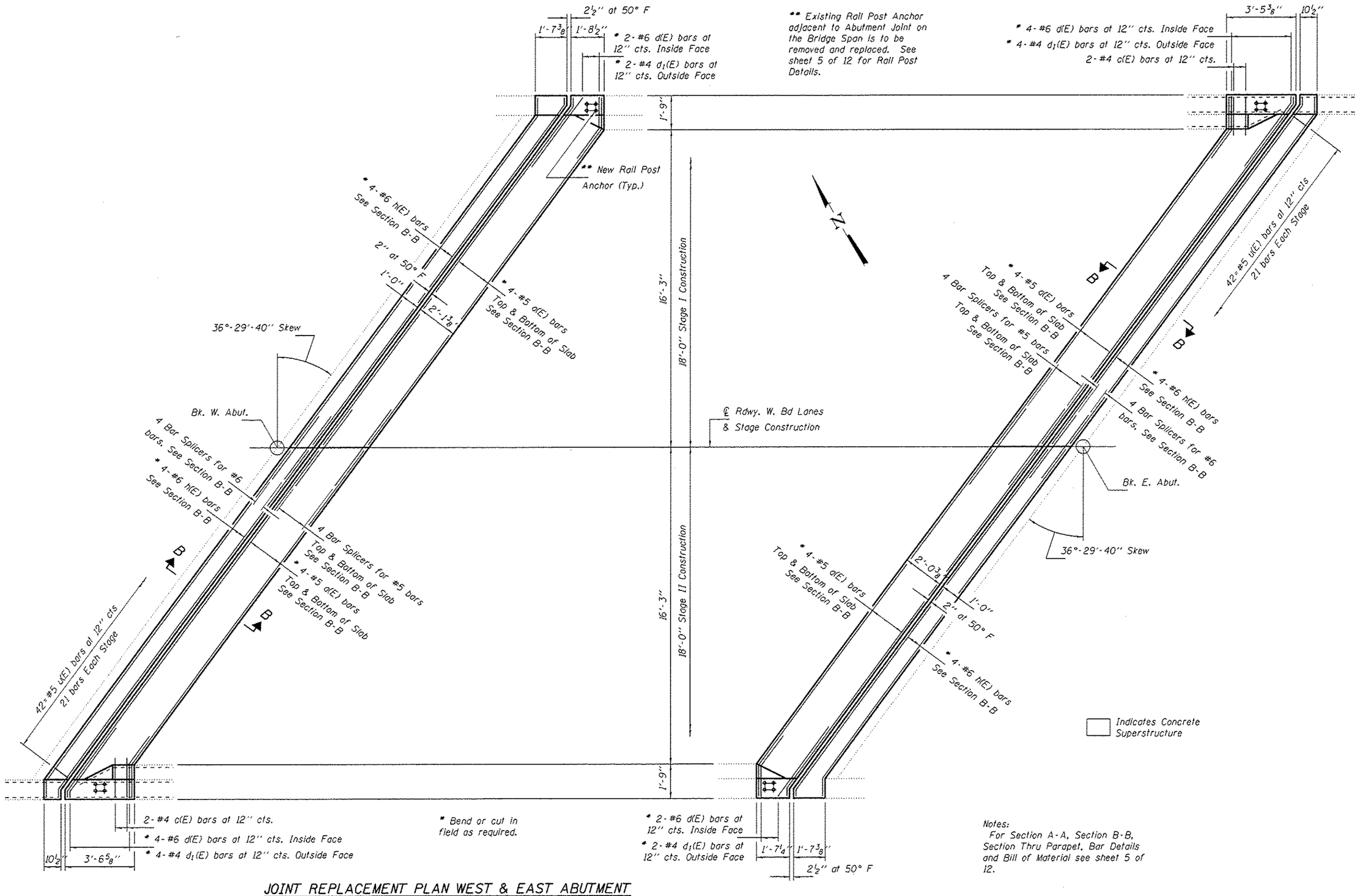
* Existing Rail Post Anchor adjacent to Abutment Joint on the Bridge Span is to be removed and replaced. See sheet 5 of 12 for Rail Post Details.



Notes:
For Section A-A, Section B-B, Section Thru Parapet, Bar Details and Bill of Material see sheet 5 of 12.

JOINT REMOVAL PLAN WEST & EAST ABUTMENTS

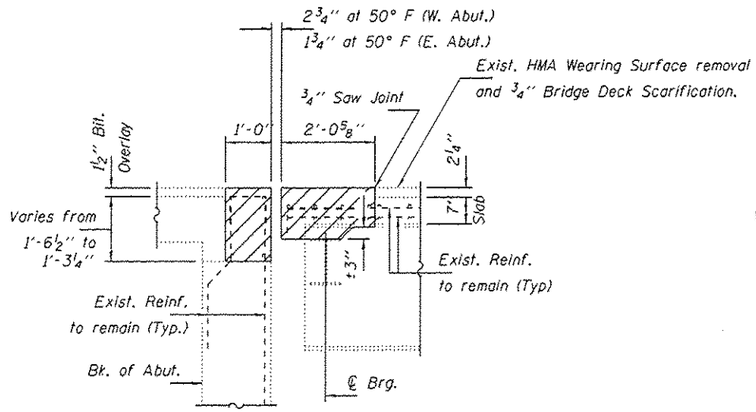
DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REMOVAL DETAILS SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH					327	0-7 Bridge Repair 2017-1	CLAY	25	12
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 3 OF 12 SHEETS			CONTRACT NO. 74707		
CHECKED JGY ATH		REVISED					ILLINOIS FED. AID PROJECT		



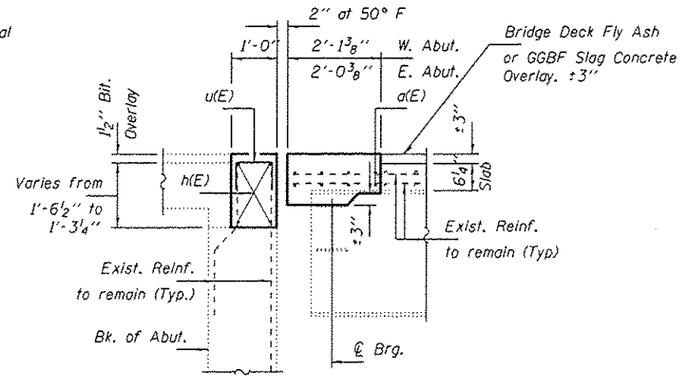
Notes:
For Section A-A, Section B-B, Section Thru Parapet, Bar Details and Bill of Material see sheet 5 of 12.

JOINT REPLACEMENT PLAN WEST & EAST ABUTMENT

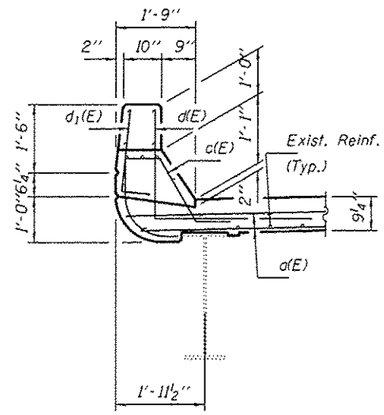
DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOINT REPLACEMENT DETAILS SN 013-0001	F.A. RTE. 327
CHECKED ATH	A Carl Purvis	REVISED			SECTION 0-7 Bridge Repair 2017-1
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 4 OF 12 SHEETS	COUNTY CLAY
CHECKED JGY ATH					TOTAL SHEETS 25
					SHEET NO. 13
					CONTRACT NO. 74707
					ILLINOIS FED. AID PROJECT



SECTION A-A



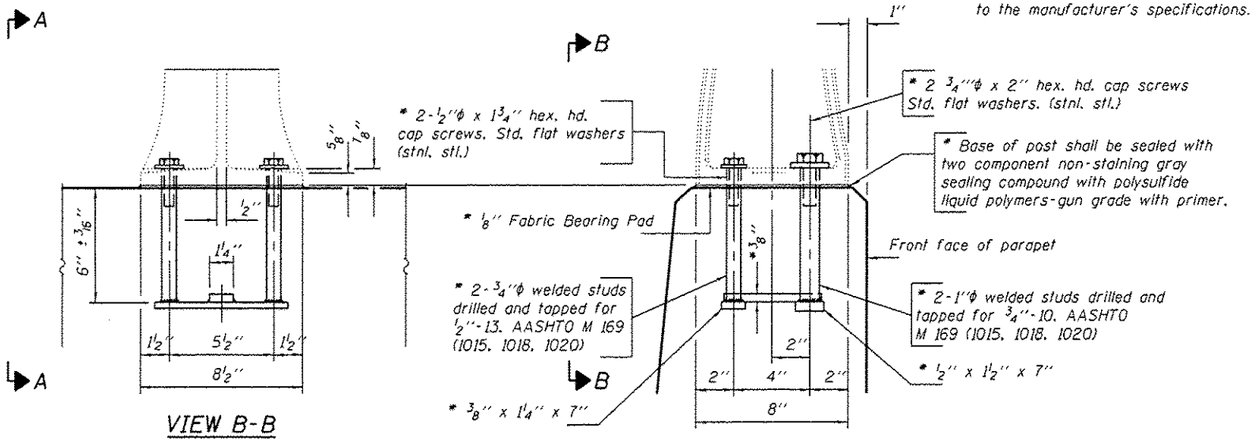
SECTION B-B



SECTION THRU PARAPET

Hatched area indicates Concrete Removal.
Indicates Concrete Superstructure

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.



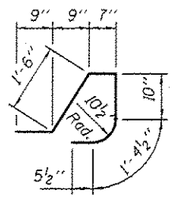
VIEW B-B

SECTION A-A

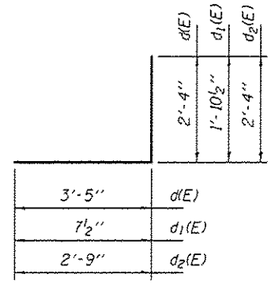
RAIL POST DETAILS

(10 Locations Required)

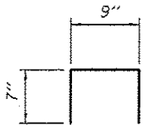
* *New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost shall be included with Concrete Superstructure.*



BAR c(E)



BARS d(E), d_1(E) & d_2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	32	#5	21'-0"	
c(E)	4	#4	5'-5"	
d(E)	12	#6	5'-9"	
d_1(E)	12	#4	2'-6"	
h(E)	16	#6	22'-1"	
u(E)	84	#5	1'-11"	
Concrete Removal			Cu. Yd.	12.6
Concrete Superstructure			Cu. Yd.	12.6
Reinforcement Bars, Epoxy Coated			Lbs.	1540
Bar Splicers			Each	24

DESIGNED	JGY		
CHECKED	ATH		
DRAWN	J. Schneller		
CHECKED	JGY ATH		

PASSED — ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE SEPTEMBER 20, 2016

REVISED

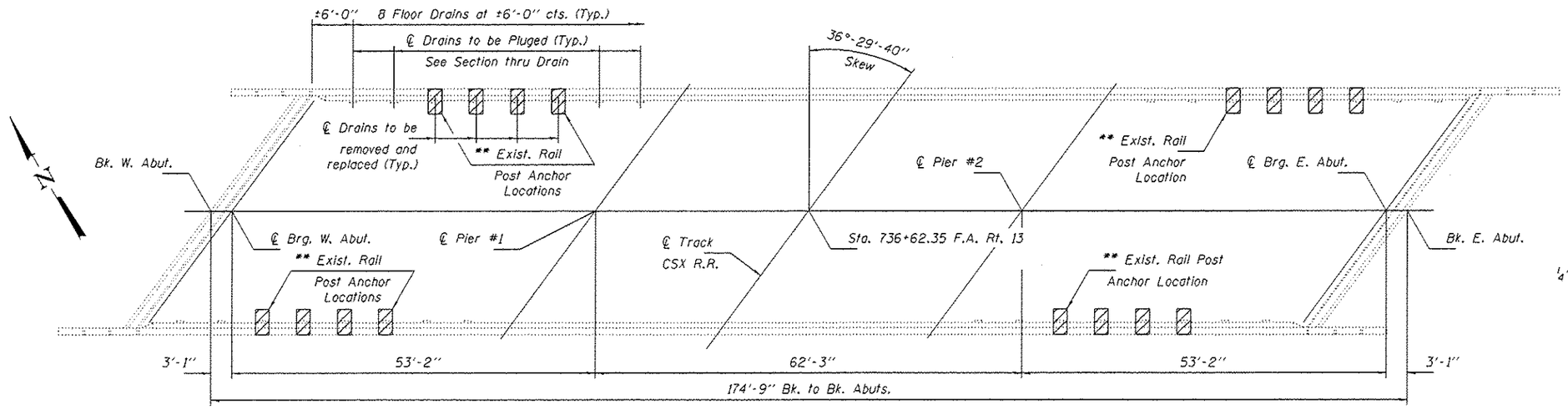
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS
SN 013-0001

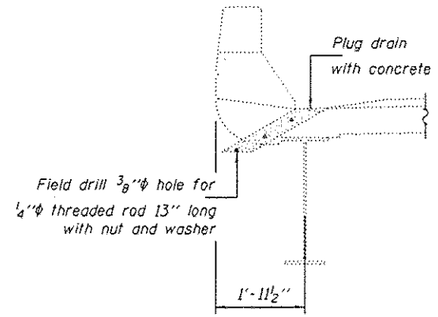
SHEET NO. 5 OF 12 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	D-7 Bridge Repair 2017-1	CLAY	25	14
		CONTRACT NO. 74707		
	ILLINOIS FED. AID PROJECT			



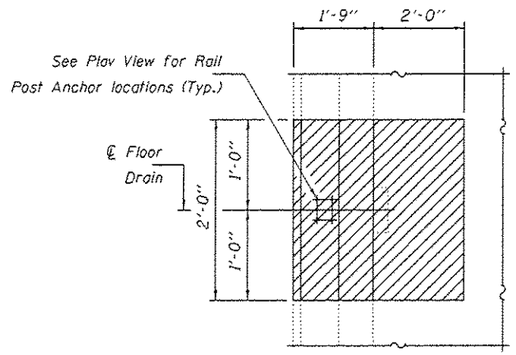
PLAN

** Remove and replace existing rail post anchor.
Cost included in Concrete Superstructure.

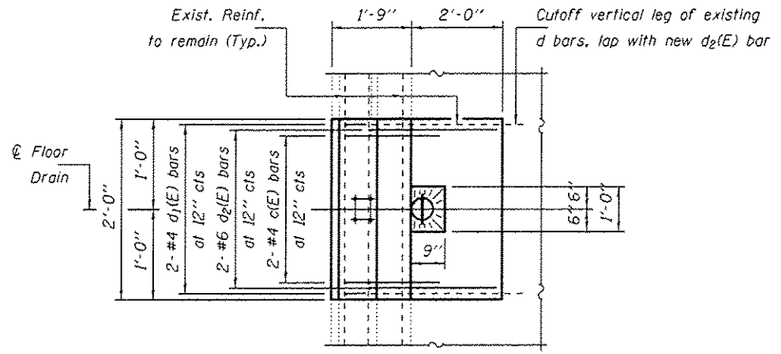


SECTION THRU DRAIN TO BE PLUGGED

(16 Locations)
Cost included with Bridge Deck Fly Ash or GGBF Slag Concrete

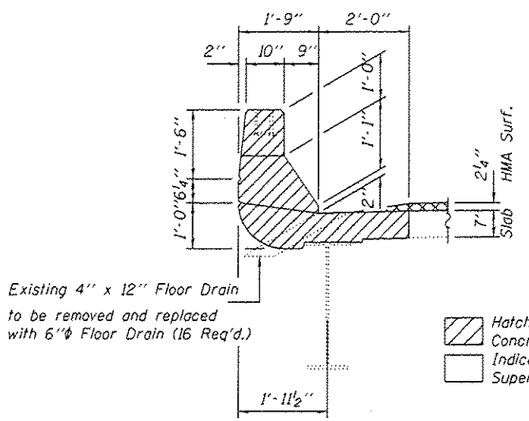


TOP PLAN



TOP PLAN

Notes:
Drains shall be located clear of all diaphragms.
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 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 inserts is included with Floor Drains.
The Contractor shall use extreme care during concrete removal so as not to damage the steel I Beam at drain removal locations.
See Sheet 5 of 12 for Bar Details and Rail Post Anchor Device Details.

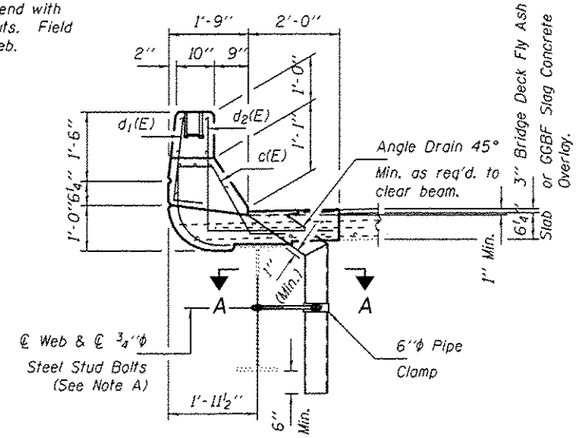


SECTION THRU PARAPET AT EXISTING DRAIN

(Bridge Deck Scarification not shown.)

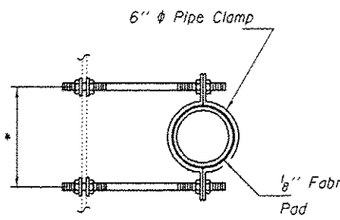
Note A:
Threaded 6" each end with 2 washers and locknuts. Field drill 15/16"ϕ holes in web.

Hatched area indicates Concrete Removal.
Indicates Concrete Superstructure



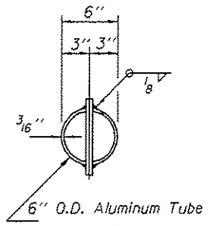
SECTION THRU PARAPET AT EXISTING DRAIN

(Bridge Deck Scarification not shown.)



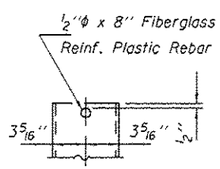
SECTION A-A

* Dimension as required by Pipe Clamp

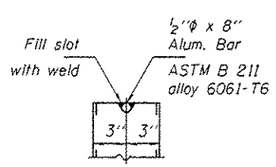


TOP PLAN

(Showing Aluminum Tube)



FIBERGLASS PIPE

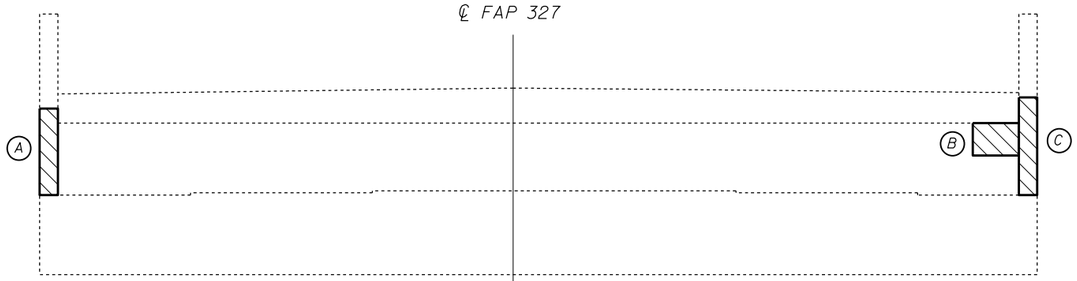


ALUMINUM TUBE

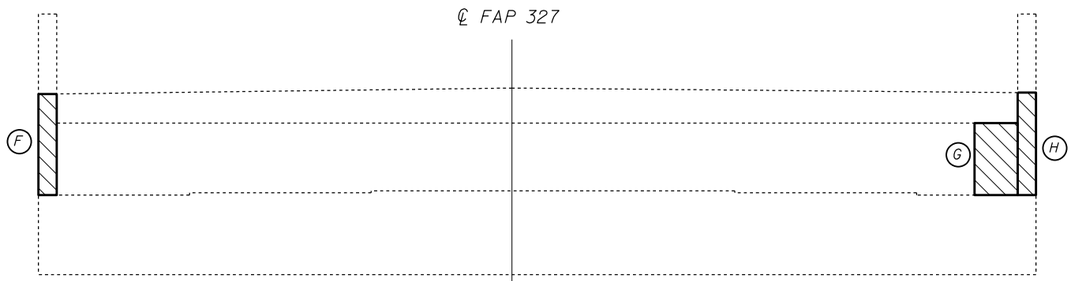
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_1(E)$	32	#4	2'-6"	⌟
$d_2(E)$	32	#6	5'-1"	⌟
c(E)	32	#4	5'-5"	⌂
Floor Drains			Each	16
Concrete Removal			Cu. Yd.	7.2
Concrete Superstructure			Cu. Yd.	7.2
Reinforcement Bars, Epoxy Coated			Lbs.	410

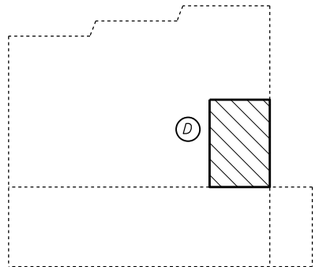
DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAIN DETAILS SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH		REVISED			327	D-7 Bridge Repair 2017-1	CLAY	25	15
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 6 OF 12 SHEETS			CONTRACT NO. 74707		
CHECKED JGY ATH							ILLINOIS FED. AID PROJECT		



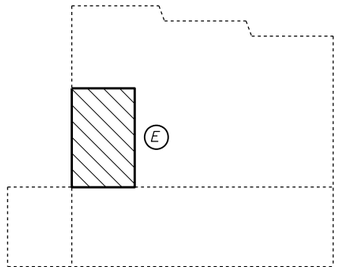
WEST ABUTMENT
(Looking west)



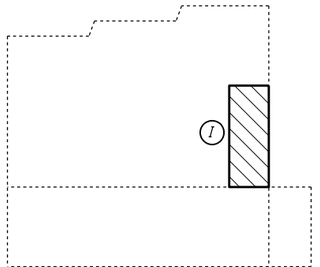
EAST ABUTMENT
(Looking east)



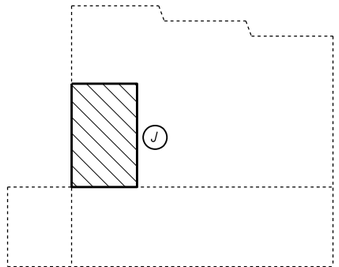
SOUTHWEST WING
(Looking north)



NORTHWEST WING
(Looking south)



NORTHEAST WING
(Looking south)



SOUTHEAST WING
(Looking north)

STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")
WEST ABUTMENT

LOCATION	DIMENSIONS	AREA SQ FT
A	4' x 1'	4.0
B	3' x 2'	6.0
C	4.5' x 1'	4.5
D	4' x 2.5'	10.0
E	5' x 2.5'	12.5
WEST ABUTMENT TOTAL		37.0

STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")
EAST ABUTMENT

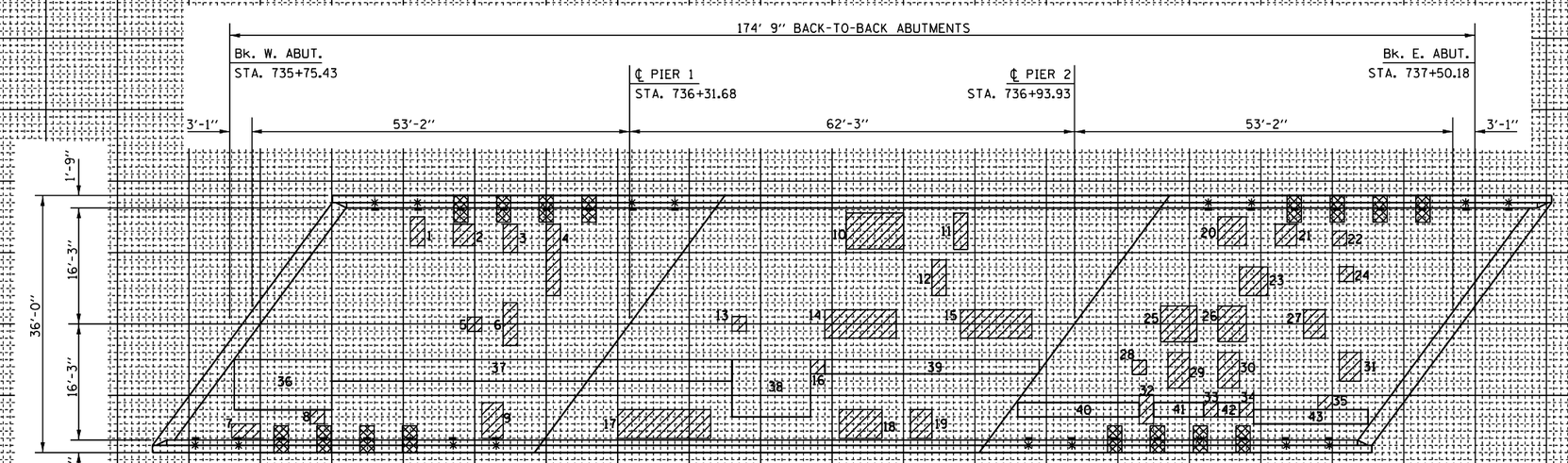
LOCATION	DIMENSIONS	AREA SQ FT
F	4.5' x 1'	4.5
G	3.5' x 2.5'	8.8
H	4.5' x 1'	4.5
I	5' x 2'	10.0
J	5' x 3'	15.0
EAST ABUTMENT TOTAL		42.8

STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")

EXPIRES 11-30-2016

DESIGNED D. Macklin	DATE MARCH 17, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE – ABUTMENTS SN 013–0001
CHECKED			
DRAWN D. Macklin	PASSED	REVISED	SHEET NO. 7 OF 12 SHEETS
CHECKED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	D-7 Bridge Repair 2017-1	CLAY	25	16
		CONTRACT NO. 74707		
	ILLINOIS FED. AID PROJECT			



⊠ DECK DRAINS TO BE REPLACED (16 LOCATIONS) - DECK REPAIRS INCLUDED WITH CONCRETE SUPERSTRUCTURES - SEE SHEET 6 OF 12

✱ DECK DRAINS TO BE PLUGGED (16 LOCATIONS) - SEE SHEET 6 OF 12

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD	
1	4.0 x 2.0			0.89	
2	3.0 x 3.0			1.00	
3	4.0 x 2.0			0.89	
4	10.0 x 2.0			2.22	
5	2.0 x 2.0		0.44		
6	6.0 x 2.0			1.33	
7	2.0 x 4.0			0.89	
8	2.0 x 2.0		0.44		
9	5.0 x 3.0			1.67	
10	5.0 x 8.0			4.44	
11	5.0 x 2.0			1.11	
12	5.0 x 2.0			1.11	
13	2.0 x 2.0		0.44		
14	4.0 x 10.0			4.44	
15	4.0 x 10.0			4.44	
16	2.0 x 2.0		0.44		
17	4.0 x 13.0			5.78	
18	4.0 x 6.0			2.67	

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD	
19	4.0 x 3.0			1.33	
20	4.0 x 4.0			1.78	
21	3.0 x 3.0			1.00	
22	2.0 x 2.0		0.44		
23	4.0 x 4.0			1.78	
24	2.0 x 2.0		0.44		
25	5.0 x 5.0			2.78	
26	5.0 x 4.0			2.22	
27	4.0 x 3.0			1.33	
28	2.0 x 2.0		0.44		
29	5.0 x 3.0			1.67	
30	5.0 x 3.0			1.67	
31	4.0 x 3.0			1.33	
32	4.0 x 2.0			0.89	
33	2.0 x 2.0		0.44		
34	2.0 x 2.0		0.44		
35	2.0 x 2.0		0.44		
36	7.0 x 14.0	10.89			

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD	
37	3.0 x 56.0	18.67			
38	8.0 x 11.0	9.78			
39	2.0 x 30.0	6.67			
40	2.0 x 17.0	3.78			
41	2.0 x 7.0	1.56			
42	2.0 x 3.0	0.67			
43	2.0 x 16.0	3.56			
	TOTAL PARTIAL DEPTH =	55.6			
	USE	56	SQ YD		
	FOR INFORMATION ONLY				
	TOTAL FULL DEPTH, TYPE I =	4.4			
	USE	5	SQ YD		
	TOTAL FULL DEPTH, TYPE II =	50.7			
	USE	51	SQ YD		

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD	

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ YD	DECK SLAB REPAIR (FD TY 1) SQ YD	DECK SLAB REPAIR (FD TY 2) SQ YD	

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

PATCHING LEGEND (FOR INFORMATION ONLY)

PARTIAL DEPTH (FOR INFORMATION ONLY)

FULL DEPTH

DATE OF SURVEY: 12/04/2015
SURVEY BY: D. MACKLIN
METHOD OF SURVEY: VISUAL

BRIDGE DECK PATCHING
CLAY COUNTY
LOCATION
SN 013-0001

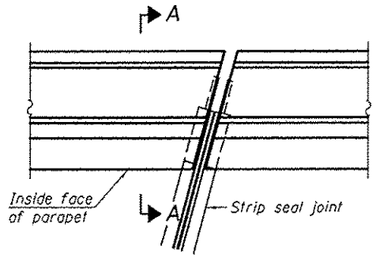
DESIGNED	- D. Macklin	REVISED	-
DRAWN	- D. Macklin	REVISED	-
CHECKED	-	REVISED	-
DATE	- 3/21/2016	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

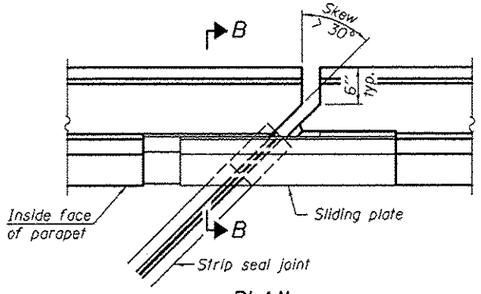
BRIDGE DECK PATCHING
SN 013-0001

SHEET NO. 8 OF 12 SHEETS

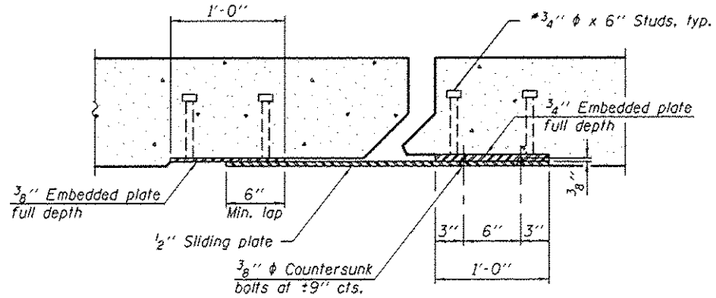
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	D-7 Bridge Repair 2017-1	Clay	25	17
		CONTRACT NO. 74707		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



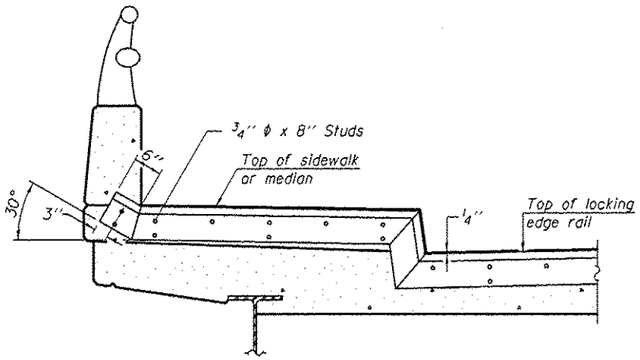
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

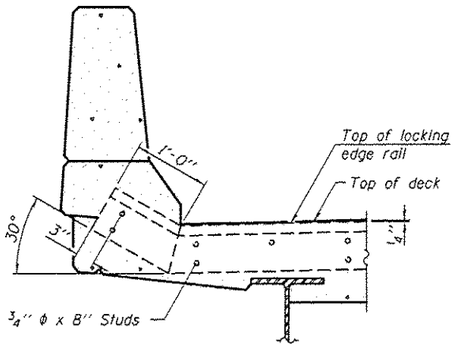


SECTION C-C

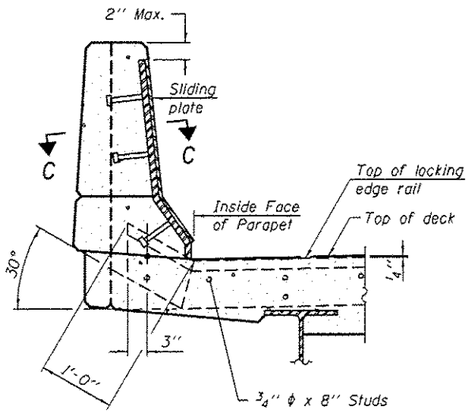


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

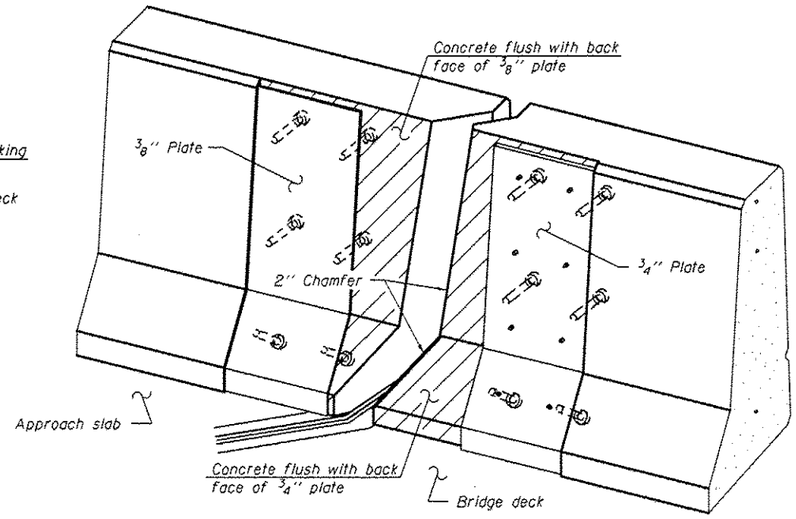
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



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 Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. 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. Locking Edge Rails may be spliced at slope discontinuities.

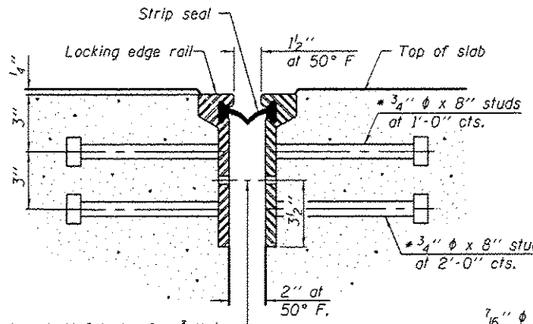
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

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

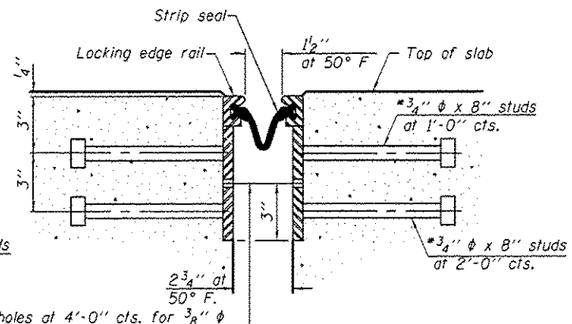
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



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.

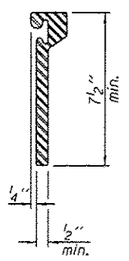
SECTION THRU ROLLED RAIL JOINT



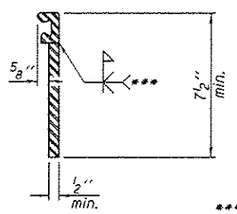
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

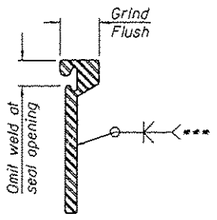
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



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.

Rolled rail shown, welded rail similar.

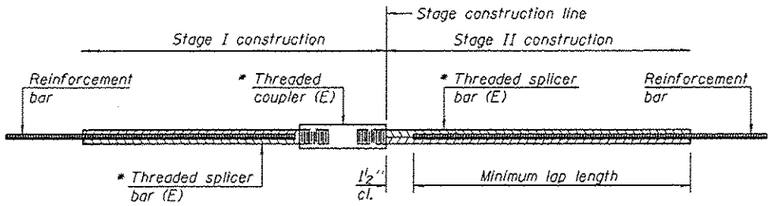
LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	85

EJ-SSJ 1-27-12

DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH					327	0-7 Bridge Repair 2017-1	CLAY	25	18
DRAWN J. Schneller		REVISED					CONTRACT NO. 74707		
CHECKED JGY ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 9 OF 12 SHEETS		ILLINOIS FED. AID PROJECT			

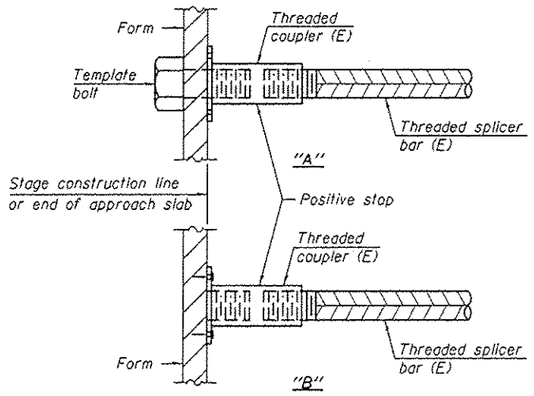


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

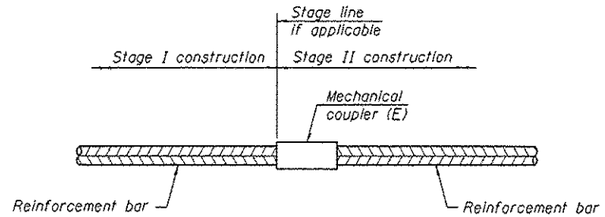
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Hatched Block	#6	4	4'-0"
W. End of Deck	#5	8	3'-6"
E. Abut. Hatched Block	#6	4	4'-0"
E. End of Deck	#5	8	3'-6"



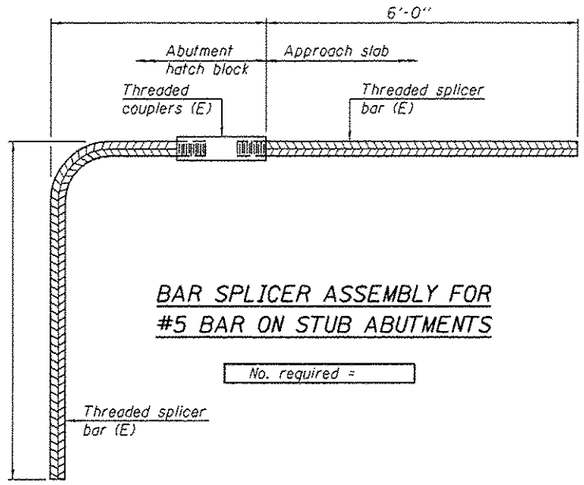
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

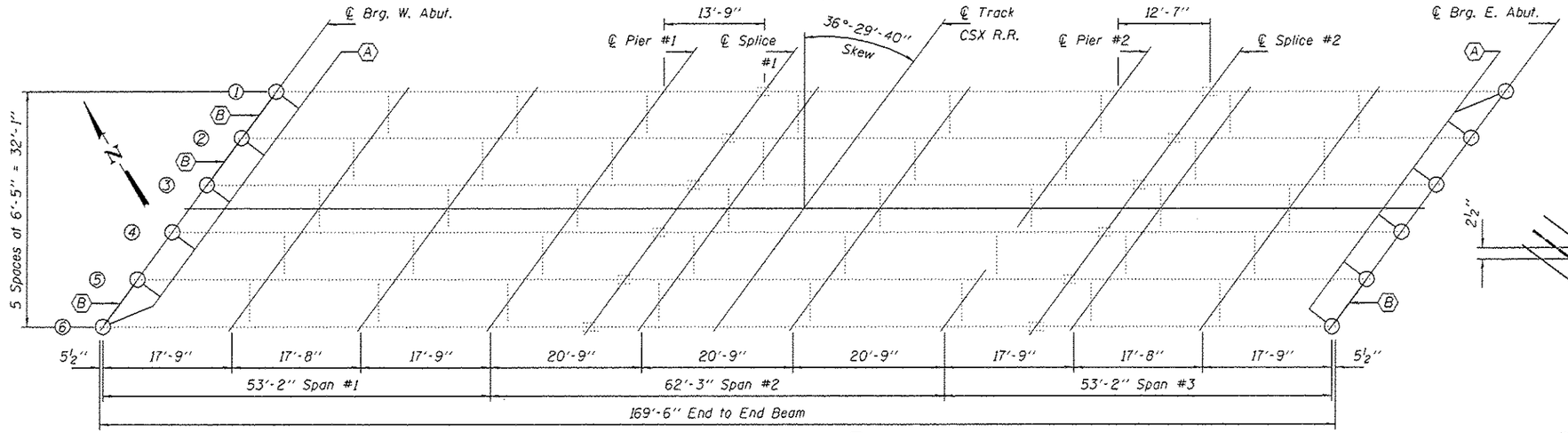
All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

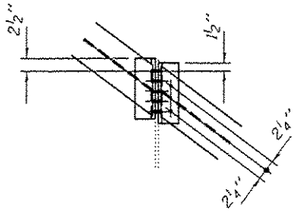
BSD-1 6-8-15

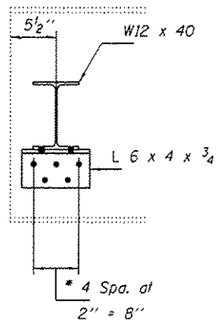
DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH		REVISED			327	0-7 Bridge Repair 2017-1	CLAY	25	19
DRAWN J. Schneller		REVISED					CONTRACT NO. 74707		
CHECKED JGY ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 10 OF 12 SHEETS			ILLINOIS FED. AID PROJECT		



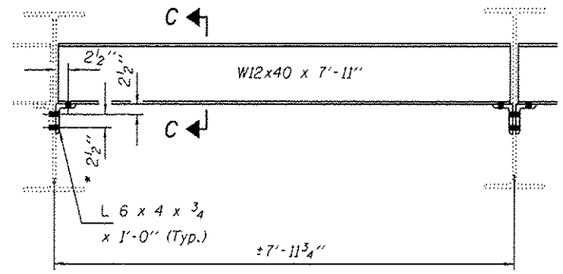
PLAN

Ⓐ Remove and Replace Bearings
Ⓑ Remove and Replace Diaphragm

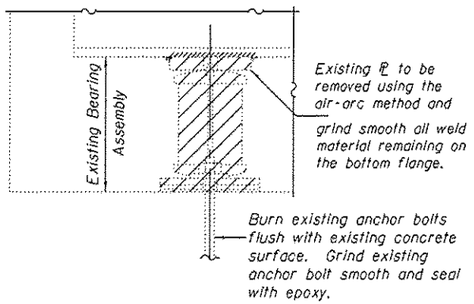




SECTION C-C



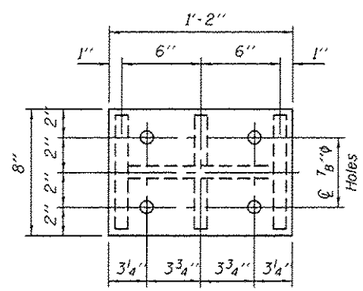
DIAPHRAGM REPLACEMENT DETAIL
(4 Required)
* Field drill holes in new angle using holes in existing beams as template.



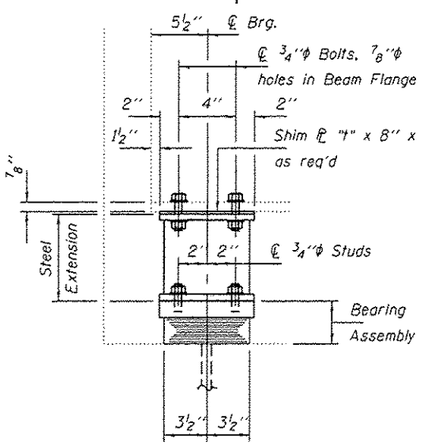
EXISTING BEARING REMOVAL DETAIL
Cost included with Jack and Remove Existing Bearings.

BEAM REACTIONS

R℄	(K)	21.4
R4	(K)	33.3
Imp.	(K)	9.3
R (Total)	(K)	64.0

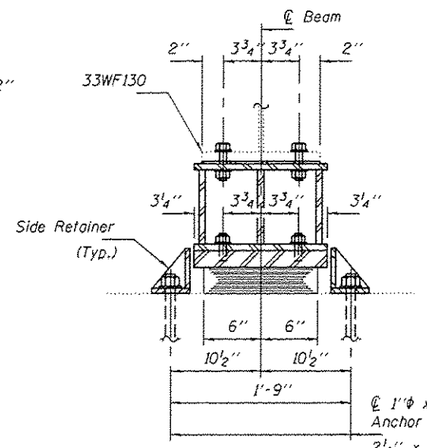


PLAN TOP AND BOTTOM PLATE



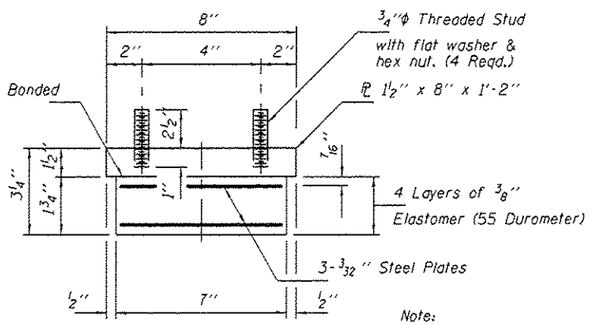
A

ELEVATION AT EAST ABUTMENT
("1" = ¼" at Beam 1)



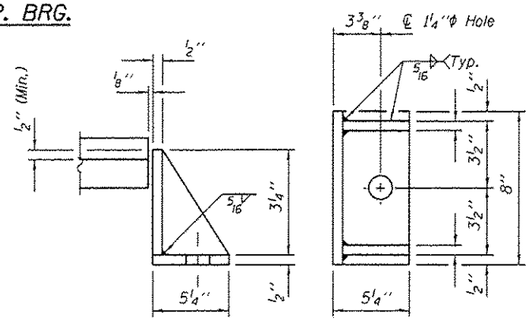
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



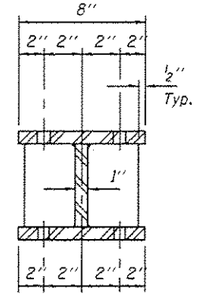
BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

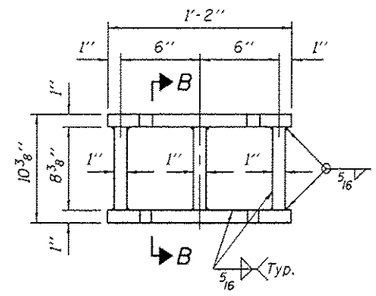


SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
Min. jack capacity = 35 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



SECTION B-B



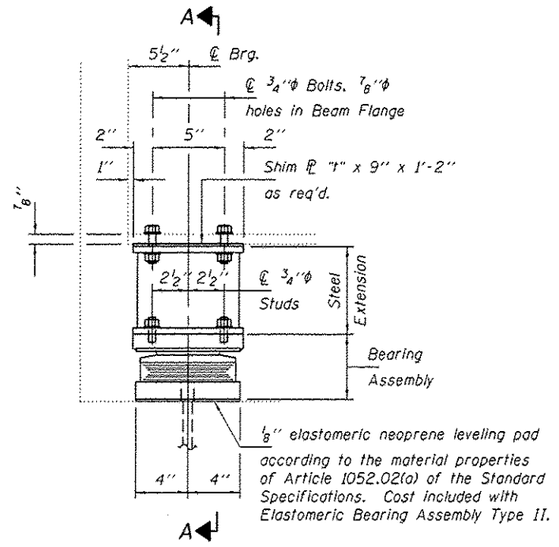
STEEL EXTENSION DETAIL

BILL OF MATERIAL

	Item	Unit	Total
	Elastomeric Bearing Assembly, Type I	Each	6
	Jack and Remove Existing Bearings	Each	6
**	Furnishing and Erecting Structural Steel	Pound	2270
**	Structural Steel Removal	Pound	1420
	Anchor Bolts 1"ϕ	Each	12

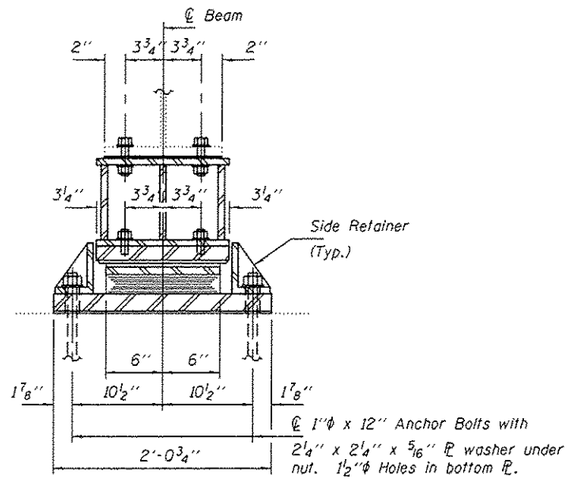
** Includes Diaphragms.

DESIGNED JGY		DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELASTOMERIC BEARING DETAILS EAST ABUTMENT & DIAPHRAGM REPLACEMENT DETAILS SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH					327	0-7 Bridge Repair 2017-1	CLAY	25	20
DRAWN J. Schneller	PASSED	REVISED		SHEET NO. 11 OF 12 SHEETS			CONTRACT NO. 74707		
CHECKED JGY ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED					ILLINOIS FED. AID PROJECT		



ELEVATION AT WEST ABUTMENT

("1" = 1'4" at Beam 1)



SECTION A-A

TYPE II TFE ELASTOMERIC EXP. BRG.

BEAM REACTIONS

RP	(K)	21.4
R℄	(K)	33.3
Imp.	(K)	9.3
R (Total)	(K)	64.0

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 35 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

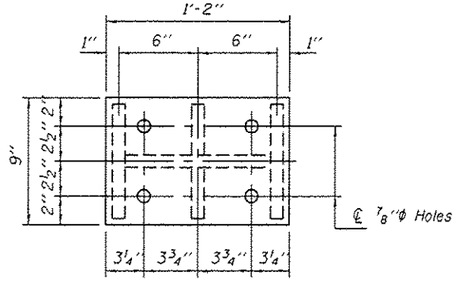
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

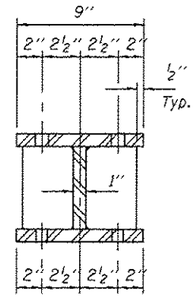
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

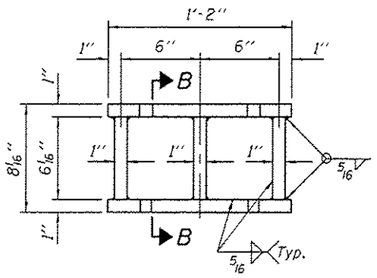
Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



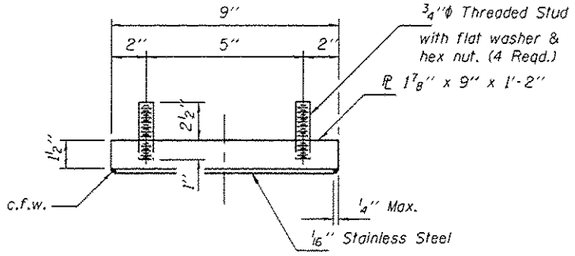
PLAN TOP AND BOTTOM PLATE



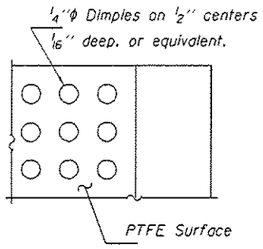
SECTION B-B



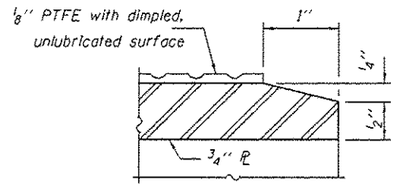
STEEL EXTENSION DETAIL



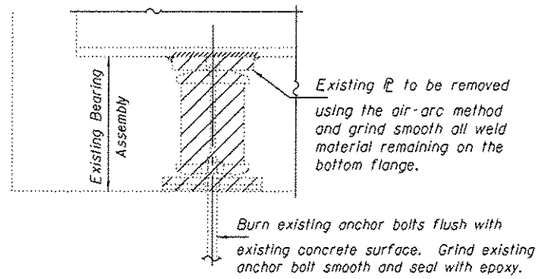
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

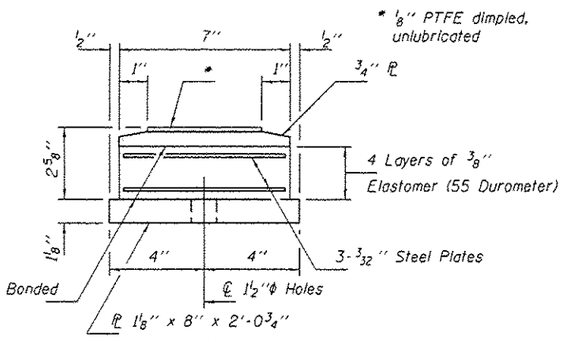


SECTION THRU PTFE

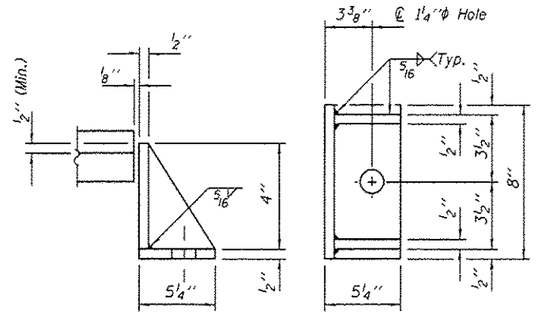


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

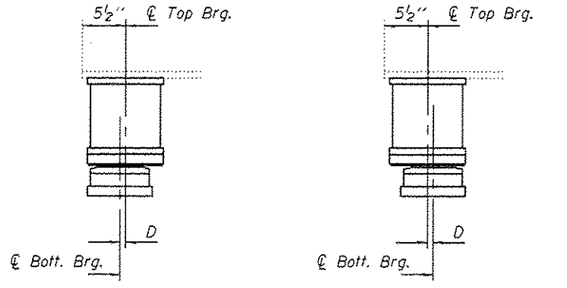


BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.

D = ⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

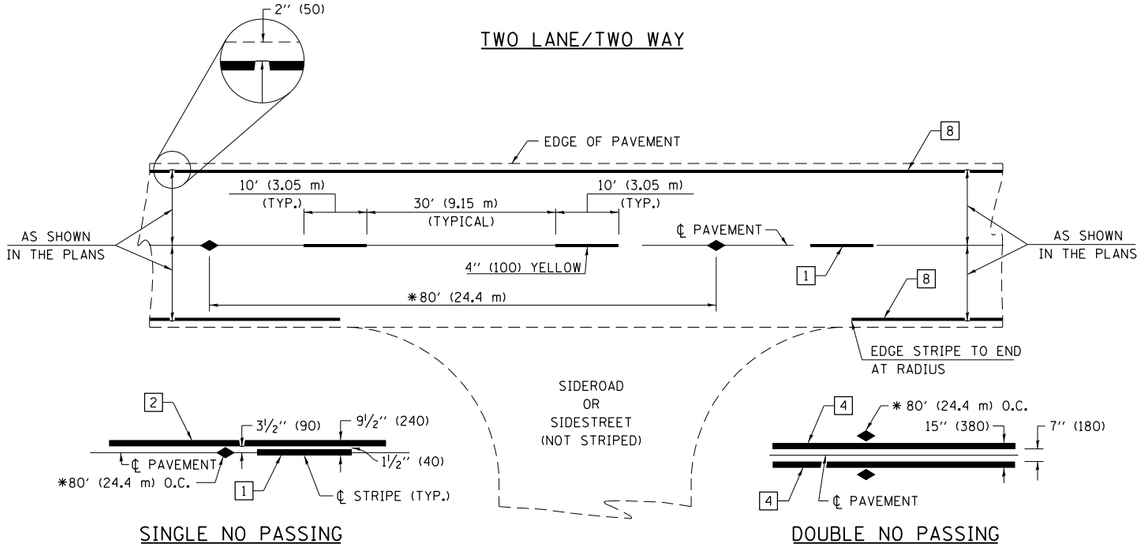
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	800
Anchor Bolts 1"ϕ	Each	12

TYII/REPS 12-03-2008

DESIGNED JGY	PASSED	DATE SEPTEMBER 20, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELASTOMERIC BEARING DETAILS WEST ABUTMENTS SN 013-0001	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED ATH		REVISED			327	D-7 Bridge Repair 2017-1	CLAY	25	21
DRAWN J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 12 OF 12 SHEETS			CONTRACT NO. 74707		
CHECKED JGY ATH							ILLINOIS FED. AID PROJECT		

TWO LANE/TWO WAY



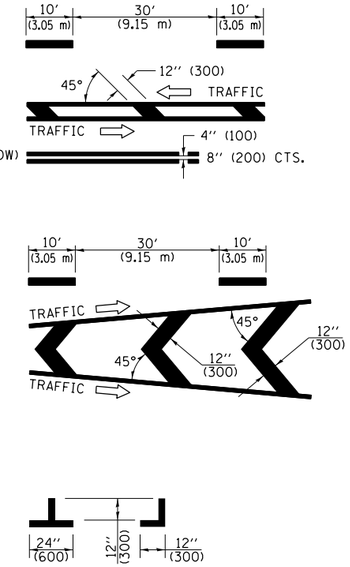
SINGLE NO PASSING

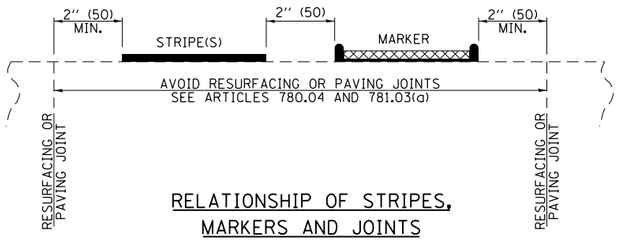
DOUBLE NO PASSING

∗ 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



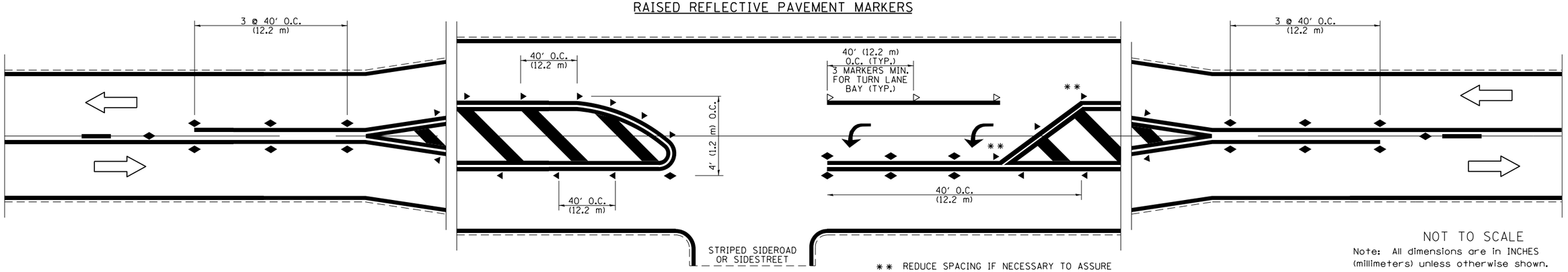


RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- TWO-WAY AMBER MARKER
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



∗∗ REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE

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

• D7 BRIDGE REPAIRS 2017-1

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADsheets\D774707-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

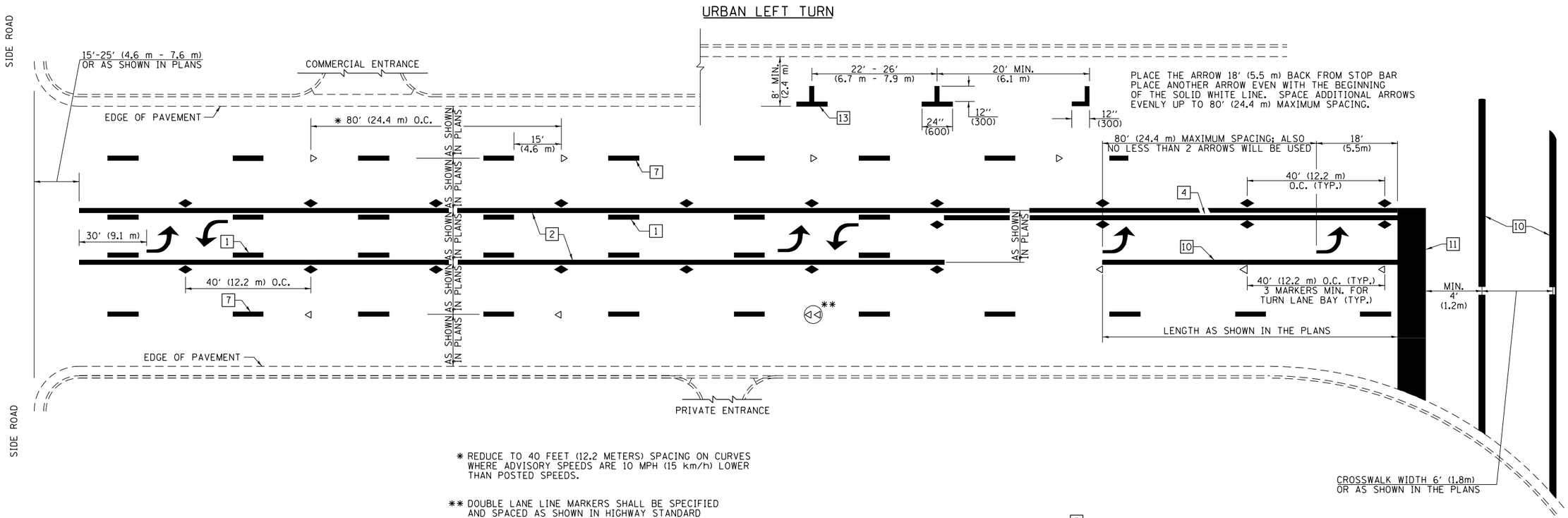
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	22
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

URBAN LEFT TURN

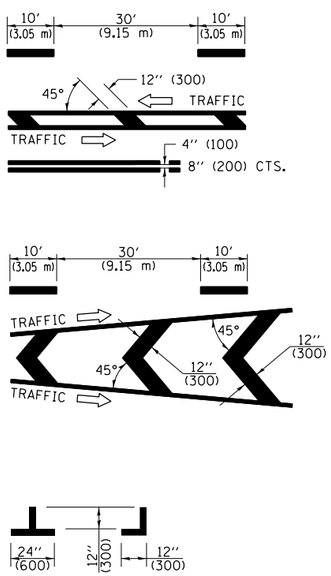


* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

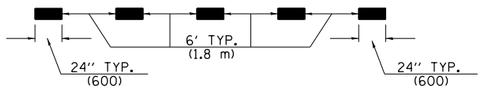
PAVEMENT MARKING LEGEND

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

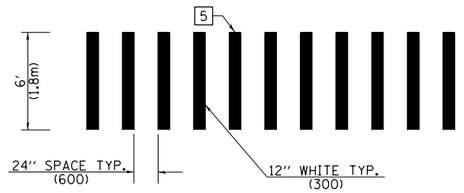


GENERAL NOTES

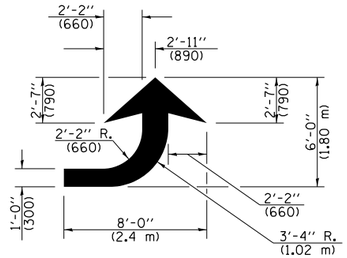
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS 2 SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT 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.



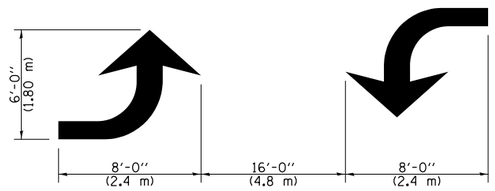
LANE LINE EXTENSIONS



CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)



LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m^2)
(WHITE)



TYPICAL DOUBLE
TURN ARROWS (WHITE)

NOT TO SCALE

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

• D7 BRIDGE REPAIRS 2017-1

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\DRAWINGS\CADsheets\D774707-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

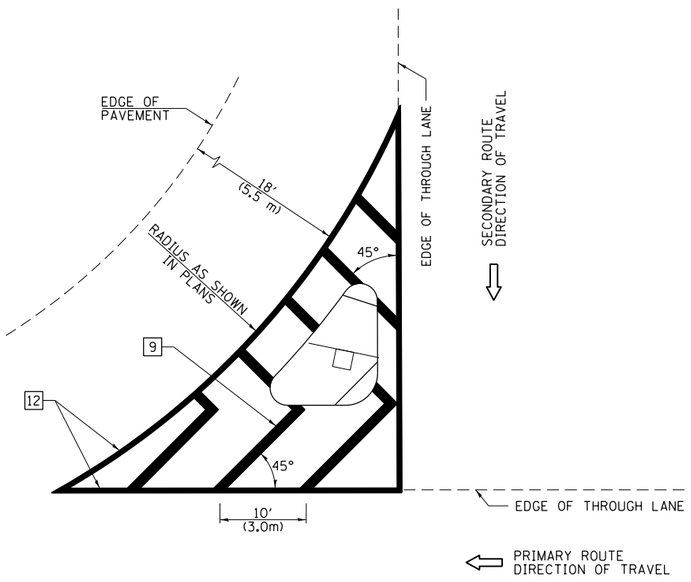
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	23
		CONTRACT NO. 74707		
	ILLINOIS FED. AID PROJECT			

ISLAND

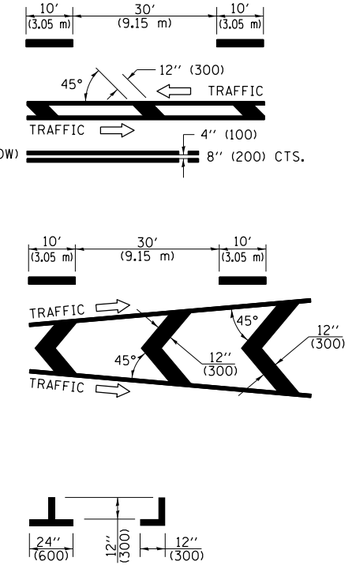


GENERAL NOTES

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:

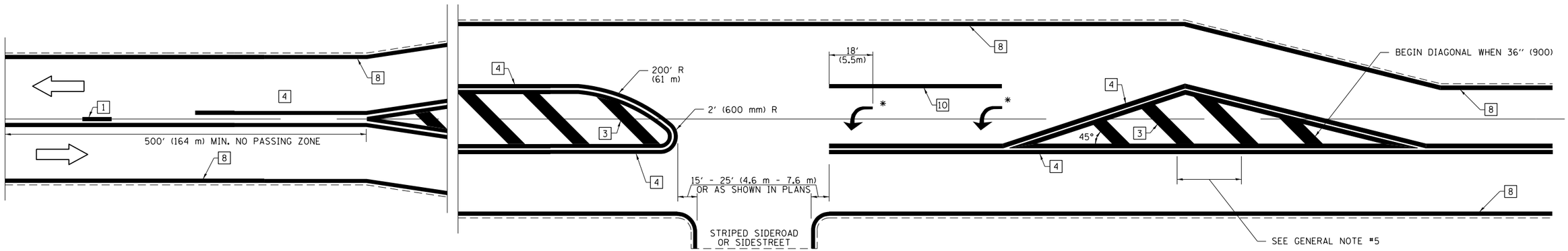
< 30 MPH	(< 50 km/h)	15′ (4.5 m)
30-45 MPH	(50-75 km/h	20′ (6.0 m)
>45 MPH	(> 75 km/h	30′ (9.0 m)

PAVEMENT MARKING LEGEND



[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

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.

• D7 BRIDGE REPAIRS 2017-1

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Drawing...	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

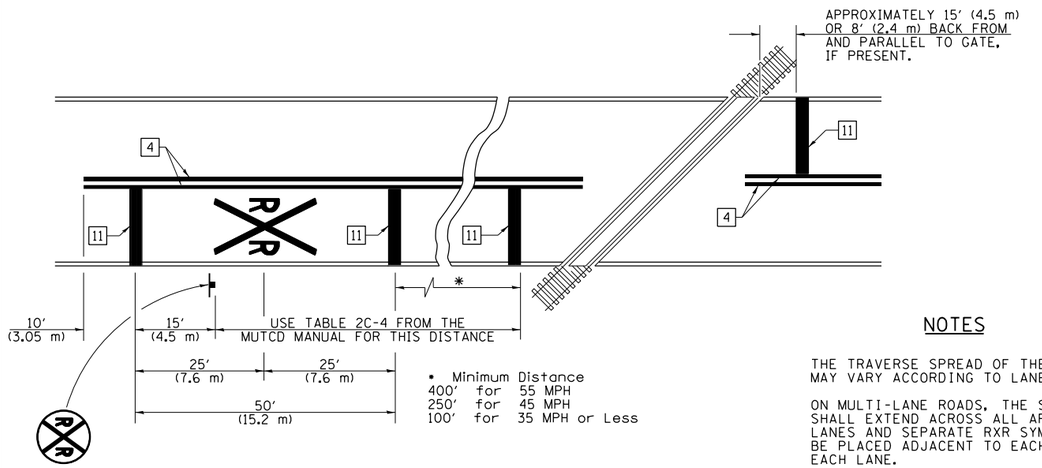
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

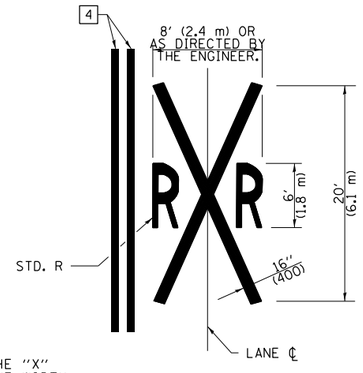
PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: N/A | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	24
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING





NOTES

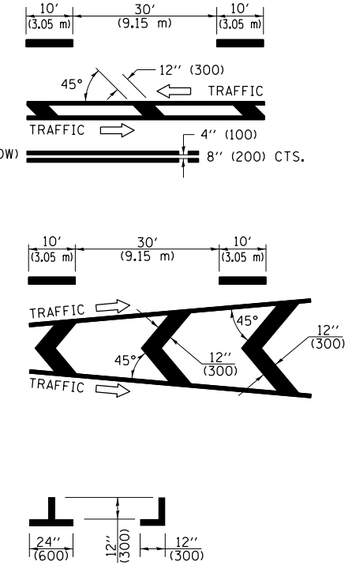
THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

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.

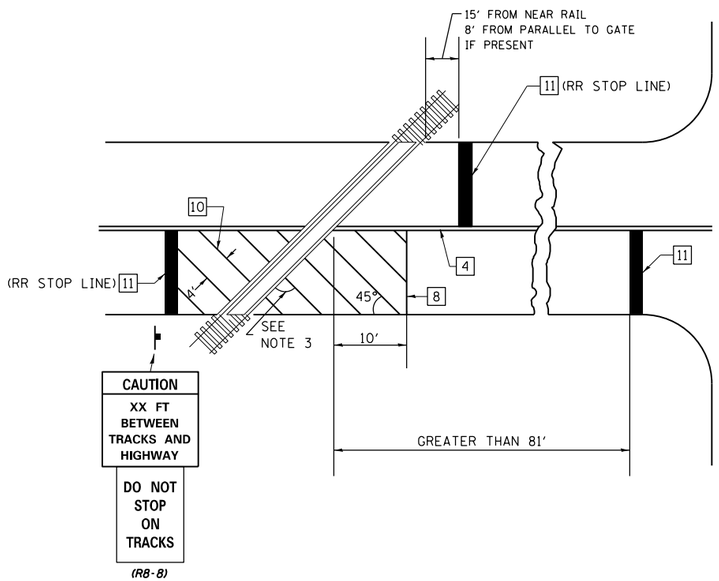
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

PAVEMENT MARKING LEGEND

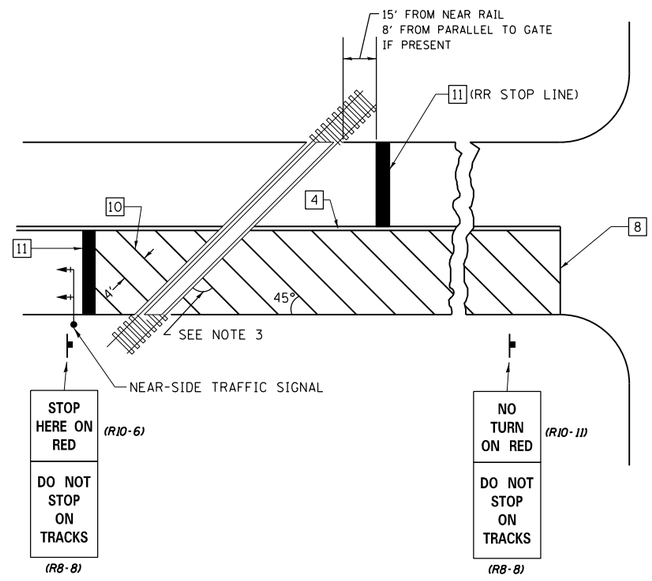
1. 4" (100) SKIP-DASH (YELLOW)
2. 4" (100) SOLID (YELLOW)
3. 12" (300) DIAGONAL (YELLOW)
4. 4" (100) DOUBLE YELLOW (NARROW)
5. 12" (300) SOLID WHITE
6. RESERVED
7. 6" (150) SKIP-DASH (WHITE)
8. 4" (100) SOLID (WHITE)
9. 12" (300) DIAGONAL (WHITE)
10. 6" (150) SOLID (WHITE)
11. 24" (600) STOP BAR (WHITE)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



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 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.

• D7 BRIDGE REPAIRS 2017-1

DISTRICT 7 DETAIL NO. 78000001

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 7\Projects\74707\Data\CADsheets\D774707-sht-details.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/24/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
327	•	CLAY	25	25
		CONTRACT NO. 74707		
		ILLINOIS FED. AID PROJECT		