

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-700HB-I	COOK	25	1
ILLINOIS CONTRACT NO. 60M70				

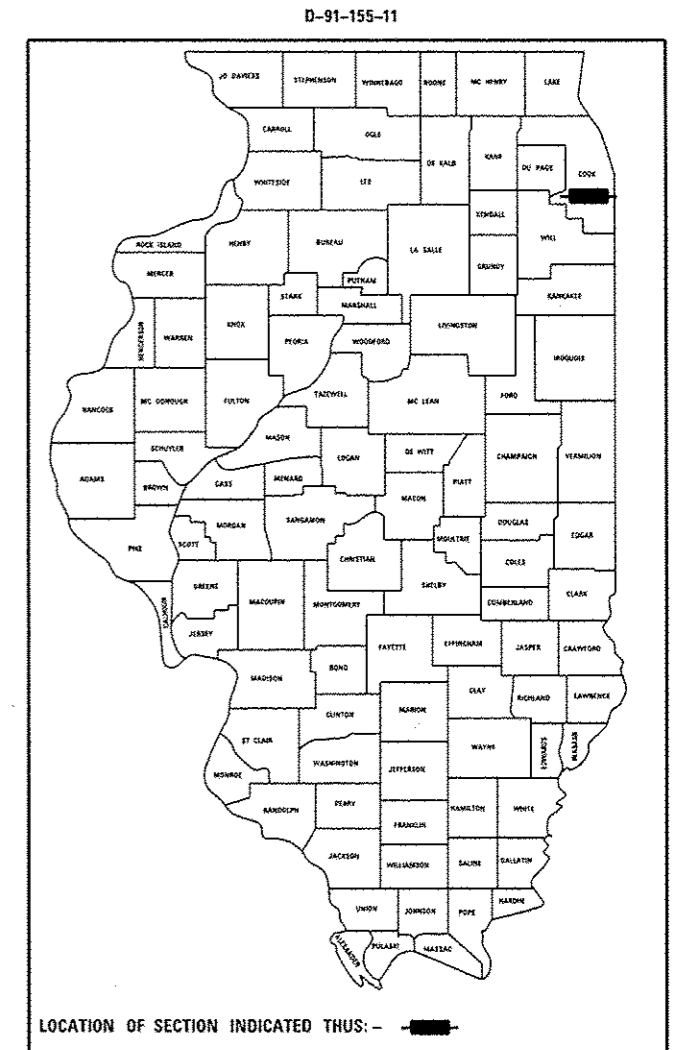
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

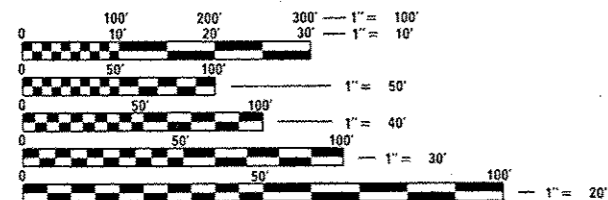
FAI ROUTE 94 (BISHOP FORD FREEWAY I-94)
SECTION 1111-700HB-I
BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR
STRUCTURE NOS. 016-2042 & 016-2043
COOK COUNTY

C-91-155-11



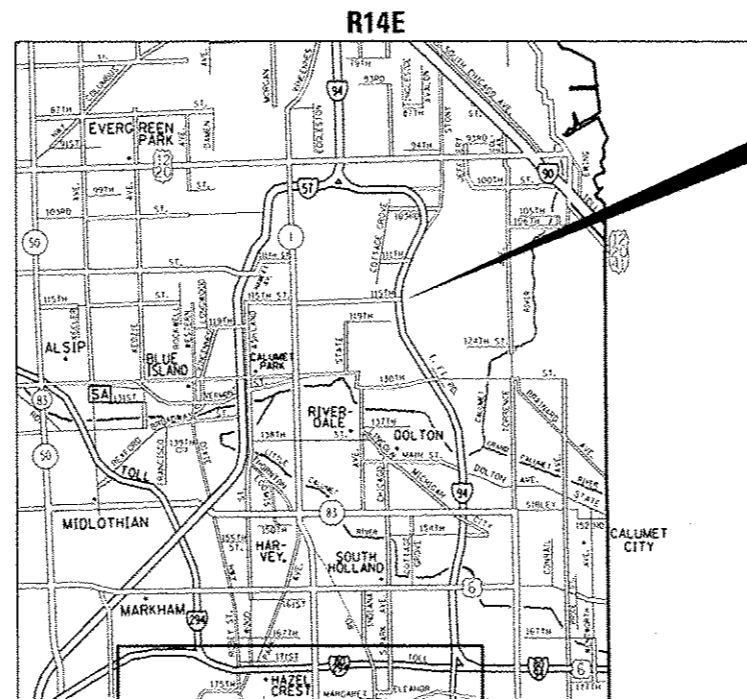
EXISTING ADT = 10800 (2009)
 SPEED LIMIT = 30 MPH

PROJECT IS IN THE CITY OF CHICAGO.



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.

C.U.A.N.
 CHICAGO UTILITY ALERT NETWORK
 1-312-794-7000



BRIDGE REPAIR
 SN: 016-2042 (EB)
 SN: 016-2043 (WB)
 BEGIN PROJECT: 14 + 60
 END PROJECT: 17 + 25

HYDE PARK TOWNSHIP

GROSS LENGTH = 265 FT. = 0.050 MILE
 NET LENGTH = 265 FT. = 0.050 MILE

PROJECT MANAGER: ISSAM RAYYAN 847-705-4178

CONTRACT NO. 60M70

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED June 28 2016
John Fortmann
 REGIONAL ENGINEER

Aug 12 2016
Marcus M. Addis
 ENGINEER OF DESIGN AND ENVIRONMENT

Aug 12 2016
[Signature]
 DIRECTOR OF PROGRAM DEVELOPMENT

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 OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1 COVER SHEET
 2 INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES
 3-4 SUMMARY OF QUANTITIES
 5 MAINTENANCE OF TRAFFIC STAGING SECTIONS
 6 STAGE 1 MAINTENANCE OF TRAFFIC
 7 STAGE 2 MAINTENANCE OF TRAFFIC
 8 PROPOSED PAVEMENT MARKINGS
 * 9-18 STRUCTURAL PLANS
 19 BO-32 BUTT JOINT - HMA TAPER DETAILS
 19A TC-8 ENTRANCE RAMP AND CLOSURE DETAILS
 20 TC-9 SINGLE LANE WEAVE AND MULTI-LANE WEAVE
 21 TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
 22 TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
 23 TC-22 ARTERIAL ROAD INFORMATION SIGN
 24-25 TC-24 CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS

* INCLUDES 17A.

HIGHWAY STANDARDS

606301-04 PC CONCRETE ISLANDS AND MEDIANS
 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
 701106-02 ODD-RD OPERATIONS, MULTILANE, > 15' AWAY
 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
 701411-09 LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS GREATER THAN 45 MPH
 701427-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
 701446-07 TWO LANE CLOSURE FREEWAY/EXPRESSWAY
 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
 701606-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
 701901-05 TRAFFIC CONTROL DEVICES

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N" AT 1-312-794-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
 - THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE LOCAL MUNICIPALITY.
 - THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
 - ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
 - THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 24 HOURS IN ADVANCE OF DAILY LANE, RAMP, AND SHOULDER CLOSURES, AND 72 HOURS IN ADVANCE OF BEGINNING WORK.
 - WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREA.
 - BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
 - THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD TECHNICIAN, MS. PATRICE HARRIS AT (847) 705-4413 A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
 - THE "ADVANCE WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS.
 - DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
 - THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM IDOT BRIDGE INSPECTORS IN MARCH 2009 AND NOVEMBER 2010.
 - PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
 - POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
 - WHERE UNDERPASS LIGHTING IS PRESENT ON A STRUCTURE, THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO RIDE ABOVE THE EXISTING LIGHTING FIXTURES IN ORDER TO MAINTAIN THE EXISTING LEVEL OF LIGHTING ON THE ROADWAY UNDERNEATH. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
- ANY ADJUSTMENT DONE TO THE PROTECTIVE SHIELD SYSTEM MUST NOT CHANGE THE LOAD CARRYING CAPACITY OR CONTAINMENT SPECIFICATIONS AS INDICATED IN THE STD SPECS. COST OF ADJUSTING SHIELDING IS INCLUDED IN THE COST OF PROTECTIVE SHIELD.

MAINTENANCE OF TRAFFIC GENERAL NOTES

- THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ON 115TH STREET AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH, "CHANGABLE MESSAGE SIGN".
- FOR ADDITIONAL BRIDGE CONSTRUCTION STAGING INFORMATION, SEE STRUCTURAL PLANS.
- THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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USER NAME =	DESIGNED - -	REVISED -
PL01 SCALE =	CHECKED - -	REVISED -
PLOT DATE = 8/2/2016	DRAWN - CEY	REVISED -
	CHECKED - -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES
 115TH STREET OVER I-94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-1	COOK	25	2
CONTRACT NO. 60M70				
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 1 SHEETS

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	016-2042 016-2043 0014	016-2042 016-2043 0014					
20700220	POROUS GRANULAR EMBANKMENT	CU YD	20	20					
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	225	225					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	326.5	326.5					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	344	344					
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	34	34					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	73	73					
42001300	PROTECTIVE COAT	SQ YD	345	345					
44000100	PAVEMENT REMOVAL	SQ YD	100	100					
44003100	MEDIAN REMOVAL	SQ FT	900	900					
50102400	CONCRETE REMOVAL	CU YD	44.2	44.2					
50104650	SLOPE WALL REMOVAL	SQ YD	191	191					
50157300	PROTECTIVE SHIELD	SQ YD	1215	1215					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	50.8	50.8					
50300260	BRIDGE DECK GROOVING	SQ YD	1050	1050					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5740	5740					
51100100	SLOPE WALL 4 INCH	SQ YD	191	191					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	301	301					

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES		CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT	016-2042 016-2043 0014	016-2042 016-2043 0014					
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4					
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	900	900					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	LSUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75	75					
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8					
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	64	64					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	625	625					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	138	138					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	56	56					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	86	86					
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1081	1081					
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	29	29					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10					
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8	8					
78100300	REPLACEMENT REFLECTOR	EACH	20	20					
16 X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	92	92					

FILE NAME:	USER NAME = gpr2000r2110	DESIGNED -	REVISED -
OFFICE/PROJECT/DESIGN/ISSUE/SUB-DRAWN	OFFICE/PROJECT/DESIGN/ISSUE/SUB-DRAWN	CHECKED -	REVISED -
PLOT SCALE = 1/8" = 100.0000' / IN	PLOT DATE = 7/8/2006	DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

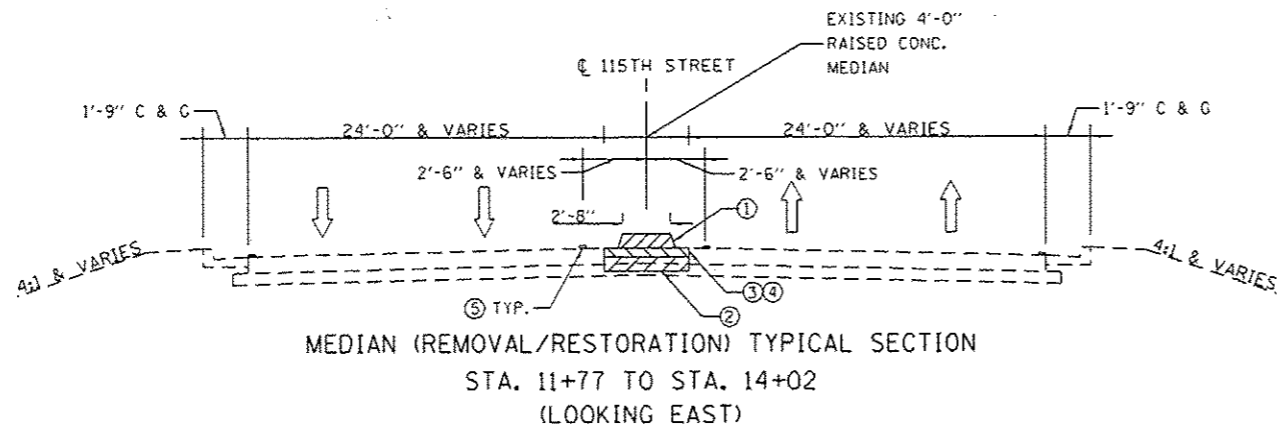
**SUMMARY OF QUANTITIES
115TH STREET OVER I-94**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

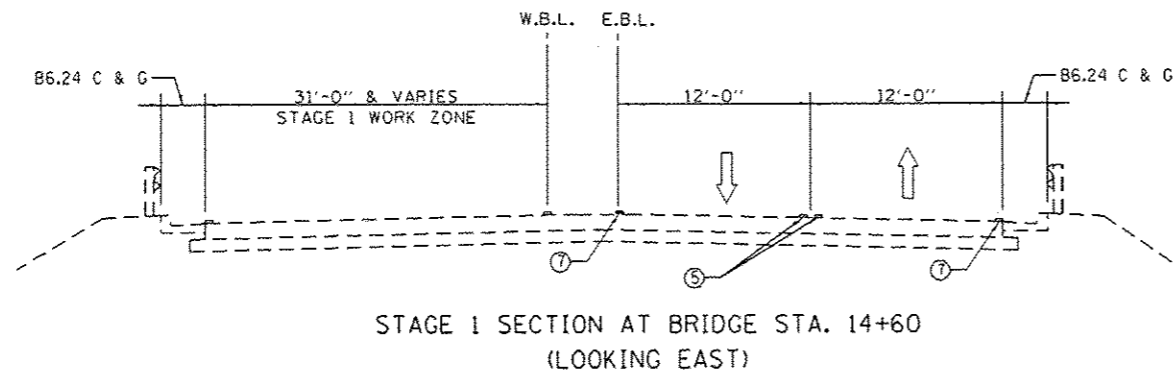
F.A.U. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-1	COOK	25	3
CONTRACT NO. 60M70				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**Specialty Items*

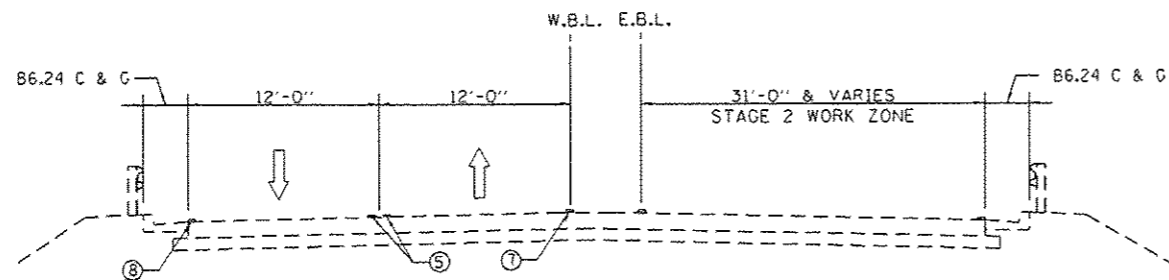
16



- LEGEND**
- ① CONCRETE MEDIAN REMOVAL (STA. 11+77 TO 14+02)
 - ② HMA BINDER COURSE, IL-19.0, N70, 6"
 - ③ PROPOSED HMA SURFACE COURSE MIX "D", N70, 1.5"
 - ④ BIT. MATERIALS (TACK COAT)
 - ⑤ WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" (YELLOW)
 - ⑥ DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ⑦ WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4" (WHITE)
 - ⑧ EXISTING RUMBLE STRIP



NOTE: REFER TO BRIDGE PLANS FOR SECTIONS ALONG BRIDGE

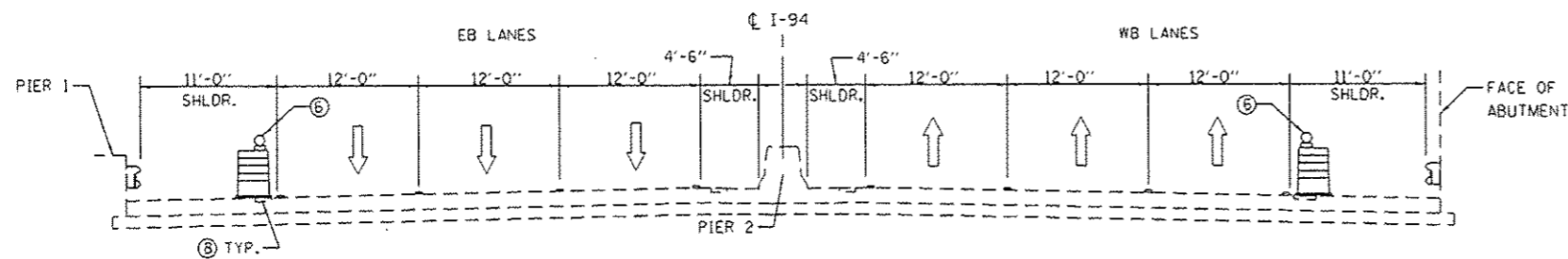


NOTE: REFER TO BRIDGE PLANS FOR SECTIONS ALONG BRIDGE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ndes	QUALITY MANAGEMENT PROGRAM (QMP)
BRIDGE APPROACH OVERLAY AND BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm); 1.75"	4% @ 70 Gyr.	QC/OA
RESURFACING OF MEDIAN REMOVAL AREA		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm); 1.5"	4% @ 70 Gyr.	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (IL-19mm); 6"	4% @ 70 Gyr.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA)		

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



I-94 (BISHOP FORD EXPRESSWAY) STAGE 1 & 2 TYPICAL SECTION AT STA. 17+65.87 (LOOKING NORTH)

	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773-239-3728	DESIGNED TPP CHECKED RJL DRAWN TPP CHECKED TPP	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	115TH ST OVER BISHOP FORD EXPY SN 016-2042 & 2043	MAINTENANCE OF TRAFFIC STAGING SECTIONS	F.A.J. RTE. 1584	SECTION 1111-700H8-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 5				
	SCALE: NONE		SHEET NO. OF SHEETS				STA. TO STA.		ILLINOIS/FED. AID PROJECT						
	CONTRACT NO. 60M70														

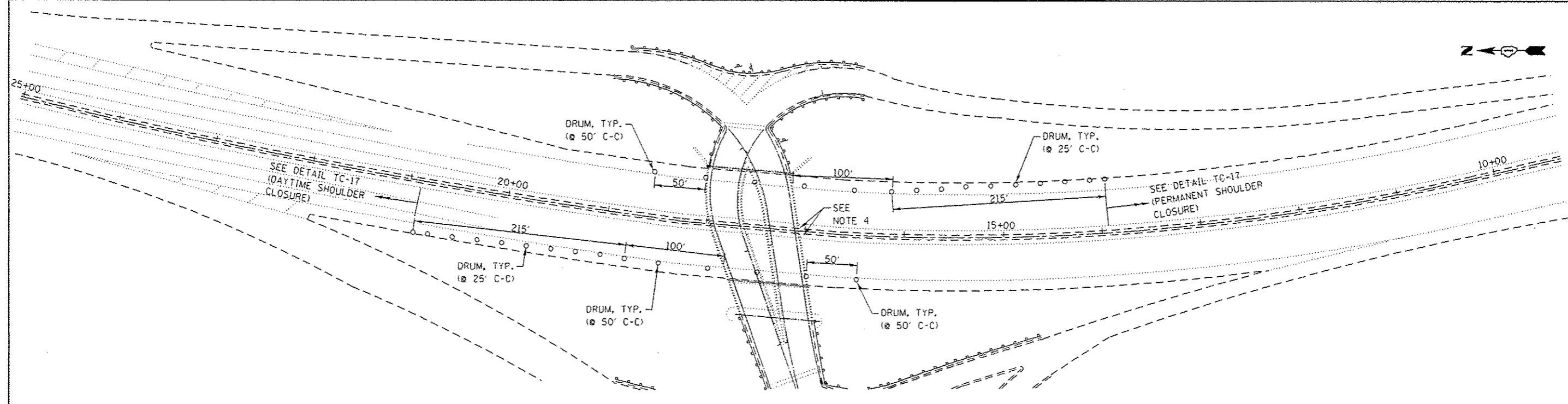
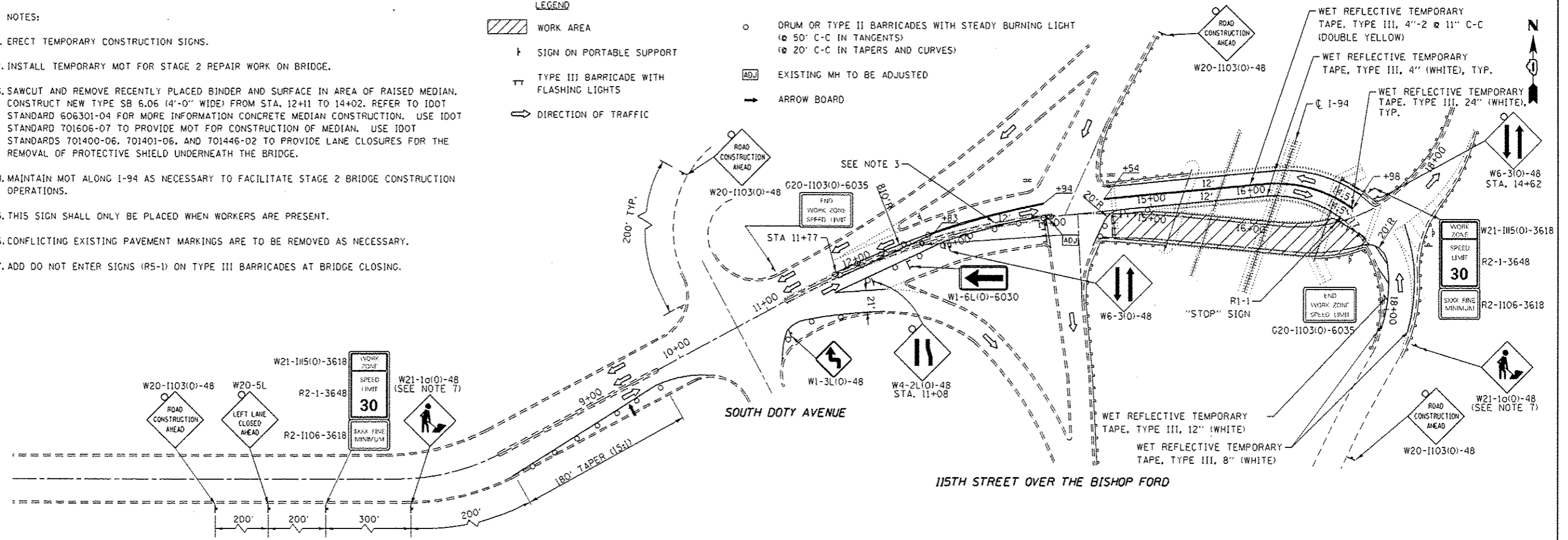
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NOTES:

1. ERECT TEMPORARY CONSTRUCTION SIGNS.
2. INSTALL TEMPORARY MOT FOR STAGE 2 REPAIR WORK ON BRIDGE.
3. SAWCUT AND REMOVE RECENTLY PLACED BINDER AND SURFACE IN AREA OF RAISED MEDIAN. CONSTRUCT NEW TYPE SB 6.06 (4'-0" WIDE) FROM STA. 12+11 TO 14+02. REFER TO IDOT STANDARD 606301-04 FOR MORE INFORMATION CONCRETE MEDIAN CONSTRUCTION. USE IDOT STANDARD 701606-07 TO PROVIDE MOT FOR CONSTRUCTION OF MEDIAN. USE IDOT STANDARDS 701400-06, 701401-06, AND 701446-02 TO PROVIDE LANE CLOSURES FOR THE REMOVAL OF PROTECTIVE SHIELD UNDERNEATH THE BRIDGE.
4. MAINTAIN MOT ALONG I-94 AS NECESSARY TO FACILITATE STAGE 2 BRIDGE CONSTRUCTION OPERATIONS.
5. THIS SIGN SHALL ONLY BE PLACED WHEN WORKERS ARE PRESENT.
6. CONFLICTING EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED AS NECESSARY.
7. ADD DO NOT ENTER SIGNS (R5-1) ON TYPE III BARRICADES AT BRIDGE CLOSING.

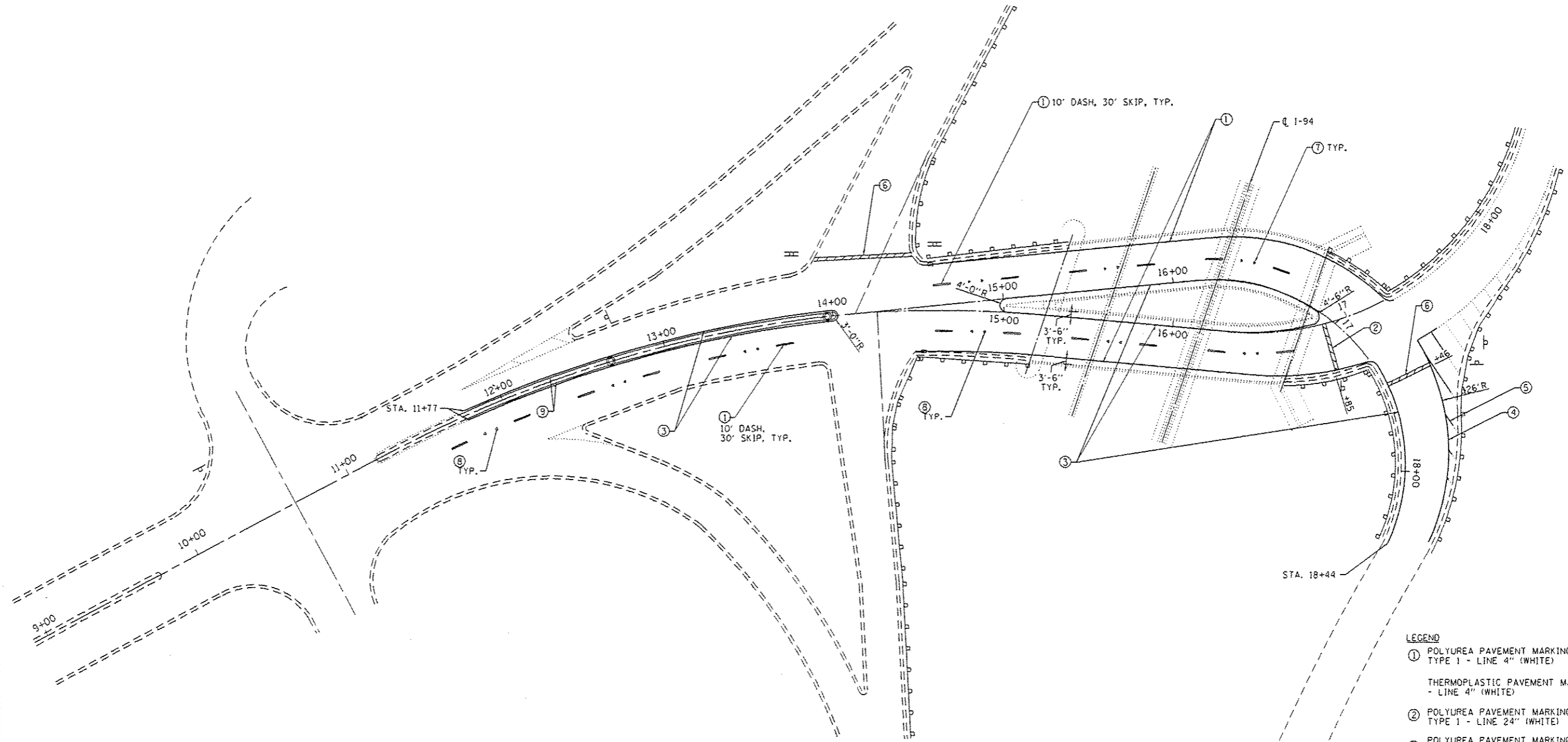
LEGEND

- WORK AREA
- SIGN ON PORTABLE SUPPORT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC
- DRUM OR TYPE II BARRICADES WITH STEADY BURNING LIGHT (@ 50' C-C IN TANGENTS) (@ 20' C-C IN TAPERS AND CURVES)
- EXISTING MH TO BE ADJUSTED
- ARROW BOARD



I-94 BISHOP FORD EXPRESSWAY

	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773-239-3728	DESIGNED TPP CHECKED RJL DRAWN JS CHECKED TPP	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	115TH ST OVER BISHOP FORD EXPY SN. 016-2042 & 2043	STAGE 2 MAINTENANCE OF TRAFFIC	F.A.U. RTE. 1584	SECTION 1111-700HB-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 7	
					SCALE: 1" = 50' SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 60M70					



- LEGEND**
- ① POLYUREA PAVEMENT MARKING
TYPE 1 - LINE 4" (WHITE)
 - THERMOPLASTIC PAVEMENT MARKING
- LINE 4" (WHITE)
 - ② POLYUREA PAVEMENT MARKING
TYPE 1 - LINE 24" (WHITE)
 - ③ POLYUREA PAVEMENT MARKING
TYPE 1 - LINE 4" (YELLOW)
 - THERMOPLASTIC PAVEMENT MARKING
- LINE 4" (YELLOW)
 - ④ THERMOPLASTIC PAVEMENT MARKING
- LINE 8" (WHITE)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING
- LINE 12" (WHITE)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING
- LINE 24" (WHITE)
 - ⑦ RAISED REFLECTIVE PAVEMENT
MARKER (BRIDGE)
 - ⑧ RAISED REFLECTIVE PAVEMENT
MARKER
 - ⑨ CONCRETE MEDIAN, TYPE
SB-6.06

LEGEND
1. ALL PROPOSED PAVEMENT MARKINGS ON THE BRIDGE SHALL BE POLYUREA AND ALL PROPOSED PAVEMENT MARKINGS PLACED ON HMA SHALL BE THERMOPLASTIC.

ABNA
DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F. 773-239-3728

DESIGNED	TPP	REVISÉD	-
CHECKED	RJL	REVISÉD	-
DRAWN	TPP	REVISÉD	-
CHECKED	TPP	REVISÉD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

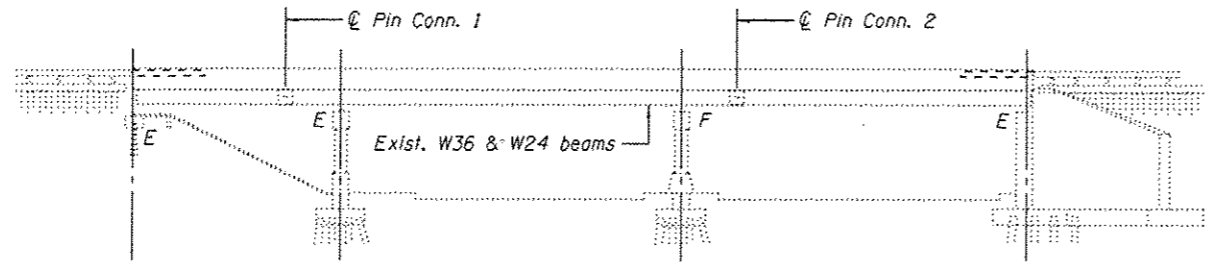
**115TH ST OVER BISHOP FORD EXPY
SN. 016-2042 & 2043**

**PROPOSED PAVEMENT
MARKINGS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-700HB-E	COOK	25	8
CONTRACT NO. 60M70			ILLINOIS FED. AID PROJECT	

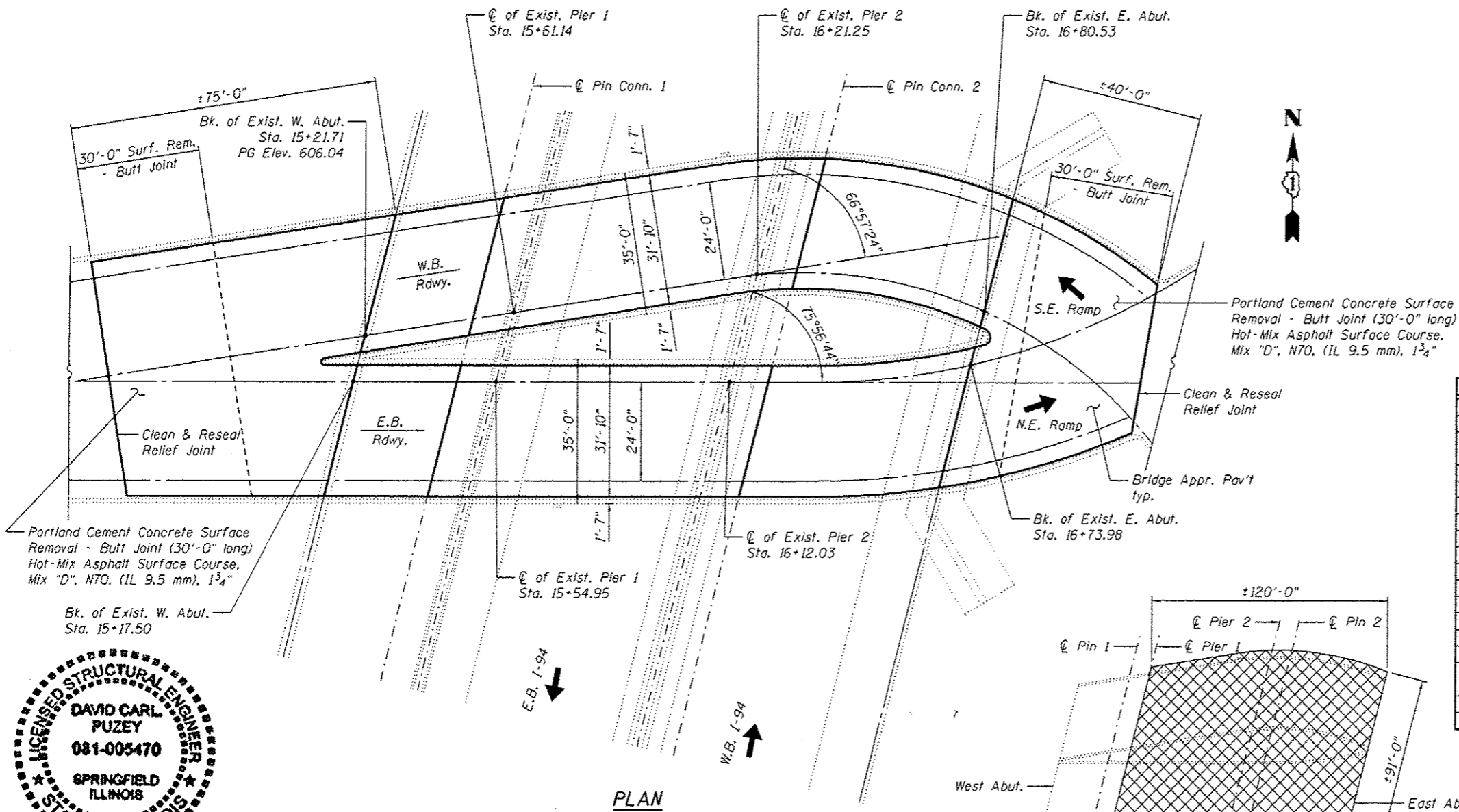
SCALE: 1" = 30' SHEET NO. OF SHEETS STA. TO STA.

Existing Structure: Built in 1960 as F.A.I. Route 90, Section 1111-700HB. Both structures consist of three simple spans created by two pin-connections in spans 1 and 3. Each structure has a 35'-0" O. to O. bridge width at the West abutment and a varying width at the East abutment. The Bk. to Bk. of abutment length for both structures is 150'-0 1/2" measured perpendicular to the piers and abutments. Structures were reconstructed in 1986 which included removing both existing concrete decks, raising the existing beams and constructing two new concrete decks.



ELEVATION

Note: 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.



PLAN

PLAN

(Limits of Protective Shield)

Proposed Protective Shield

SCOPE OF WORK

1. Reconstruct PJS deck joints with preformed strip seal joints.
2. Scarify 3/4" bridge deck.
3. Place 2 1/2" latex concrete overlay on bridge deck.
4. Seal top and inside face of parapets and new concrete deck adjacent to joints.
5. Clean and reseal pavement relief joints.
6. Structural repairs of concrete to substructures.
7. Overlay approaches with hot-mix asphalt.

INDEX OF SHEETS

1. General Plan and Elevation
2. Deck Repair Plan
3. Typical Deck Section
4. Existing Joint Plan (EB Structure)
5. Existing Joint Plan (WB Structure)
6. Proposed Joint Plan (EB Structure)
7. Proposed Joint Plan (WB Structure)
8. Details
9. Substructure Repairs
10. Preformed Joint Strip Seal

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 the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition

LOADING HS20-44

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		20	20
Bituminous Materials (TACK Coat)	POUND	304.1		304.1
Portland Cement Concrete Surface Removal - Butt Joint	Sq. Yd.	344		344
Hot-Mix Asphalt Surface Course, Mix "D", N70	Ton	73		73
Concrete Removal	Cu. Yd.	44.2		44.2
Slope Wall Removal	Sq. Yd.		191	191
Concrete Superstructure	Cu. Yd.	50.8		50.8
Bridge Deck Grooving	Sq. Yd.	1050		1050
Protective Coat	Sq. Yd.	345		345
Protective Shield	Sq. Yd.	1215		1215
Reinforcement Bars, Epoxy Coated	Pound	5670		5740
Slope Wall 4 Inch	Sq. Yd.		191	191
Preformed Joint Strip Seal	Foot	301		301
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	1025		1025
Bridge Deck Scarification, 3/4"	Sq. Yd.	1025		1025
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.		337	337
Clean & Reseal Relief Joint	Foot	92		92
Temporary Shoring & Cribbing	Each	4		4



Expires: November 30, 2016

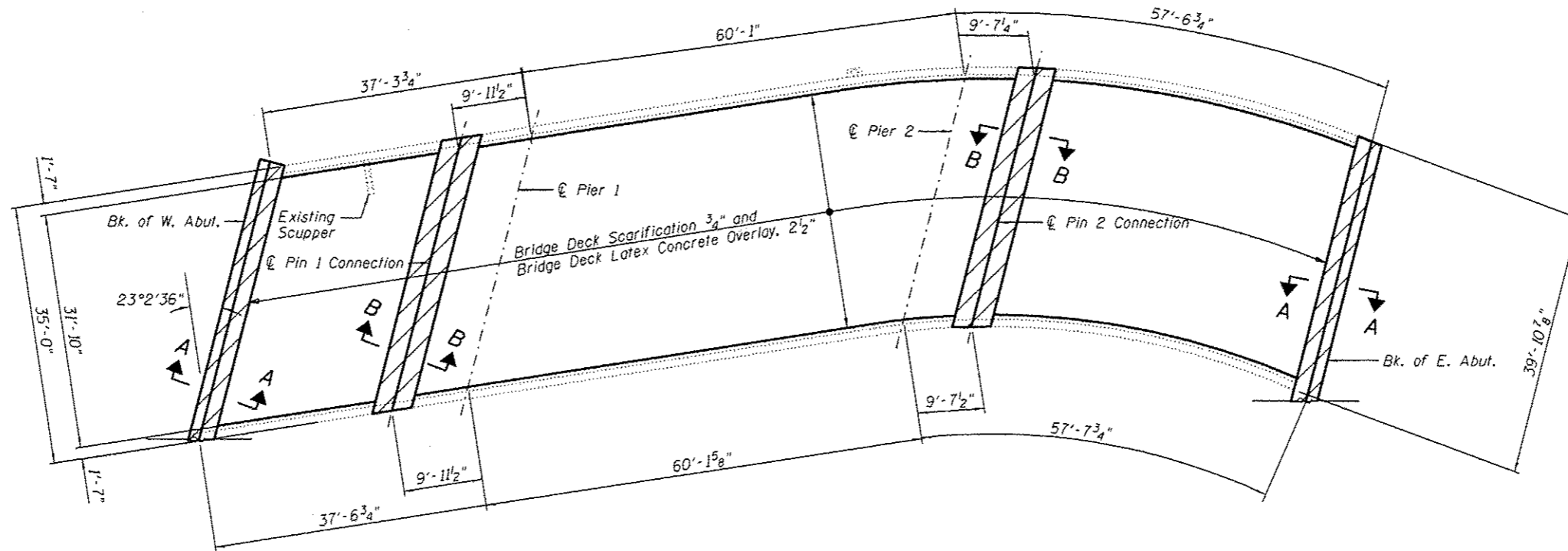
DESIGNED - [Signature]
 CHECKED - [Signature]
 DRAWN - [Signature]
 CHECKED - [Signature]

DATE - AUGUST 15, 2016
 PASSED [Signature]
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

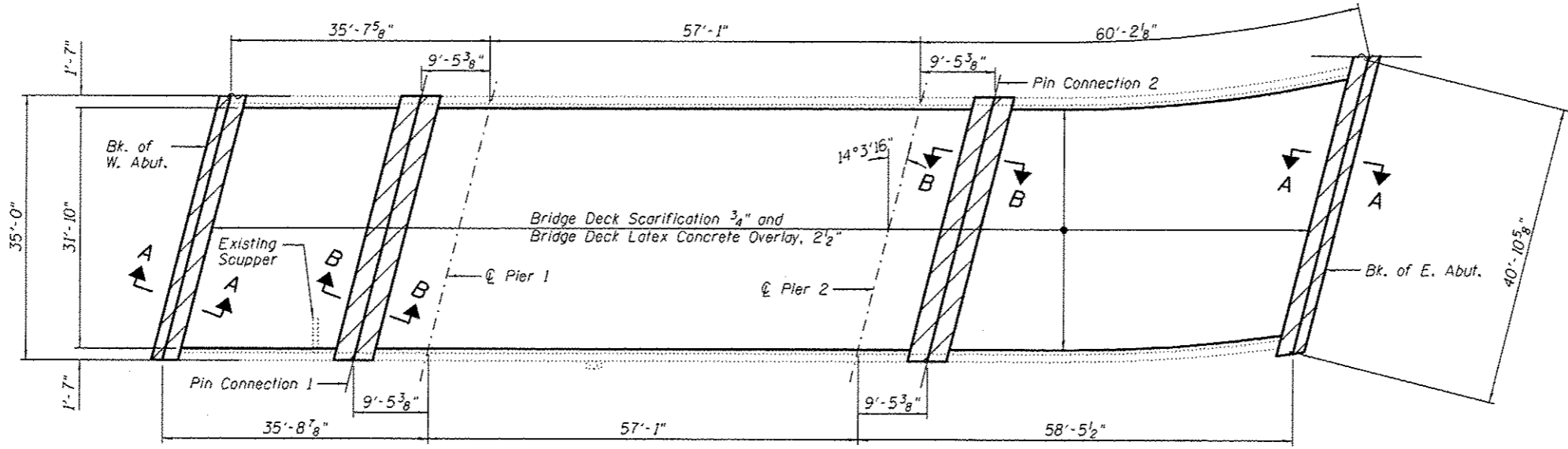
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 115th STREET OVER I-94
 SN 016-2042 (E.B.) & -2043 (W.B.)
 SHEET NO. 1 OF 10 SHEETS

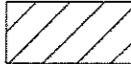
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-I	COOK	25	9
CONTRACT NO. 60M70			ILLINOIS FED. AID PROJECT	



PLAN - WB STRUCTURE (SN 016-2043)

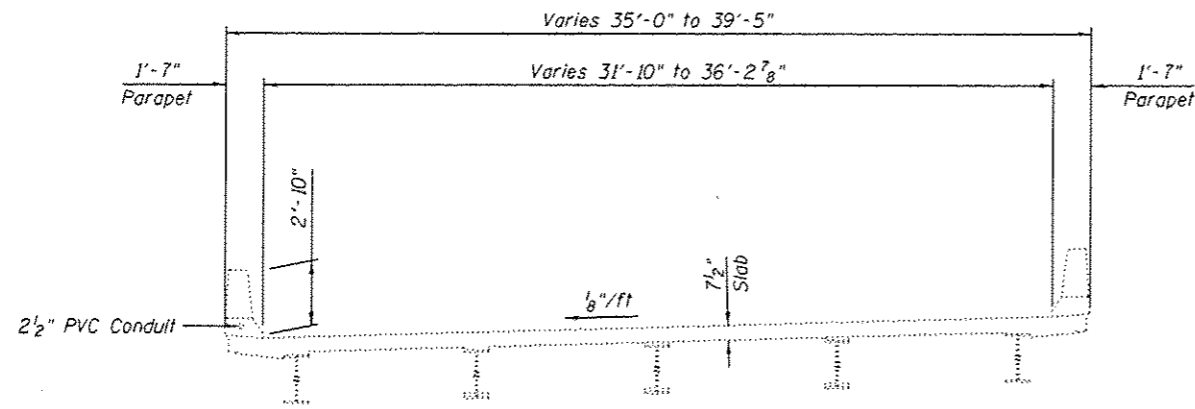


PLAN - EB STRUCTURE (SN 016-2042)

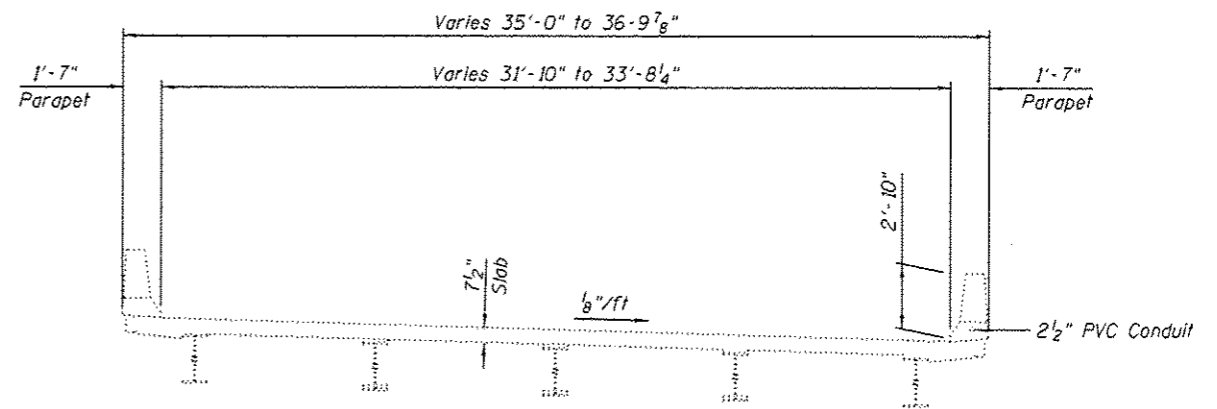
 Areas of Joint Repairs

Note: See Sheet No. 8 of 10 for Sections A-A and B-B.

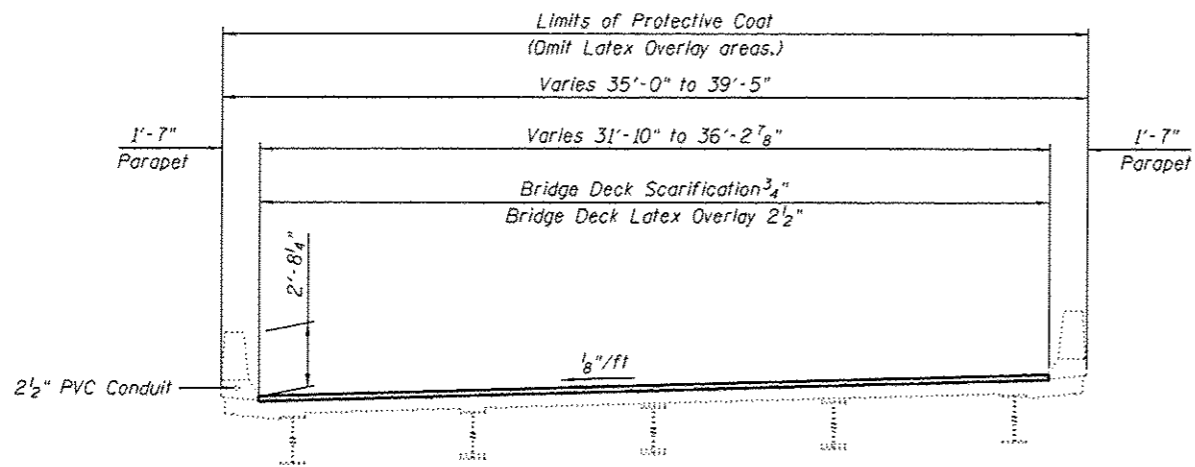
DESIGNED - JGY	DATE - AUGUST 15, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK REPAIR PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH			SN 016-2042 (EB) & -2043 (WB)		1584	1111-70HB-1	COOK	25	10
DRAWN - Steffen			SHEET NO. 2 OF 10 SHEETS		CONTRACT NO. 60M70				
CHECKED - JGY ATH					ILLINOIS FED. AID PROJECT				



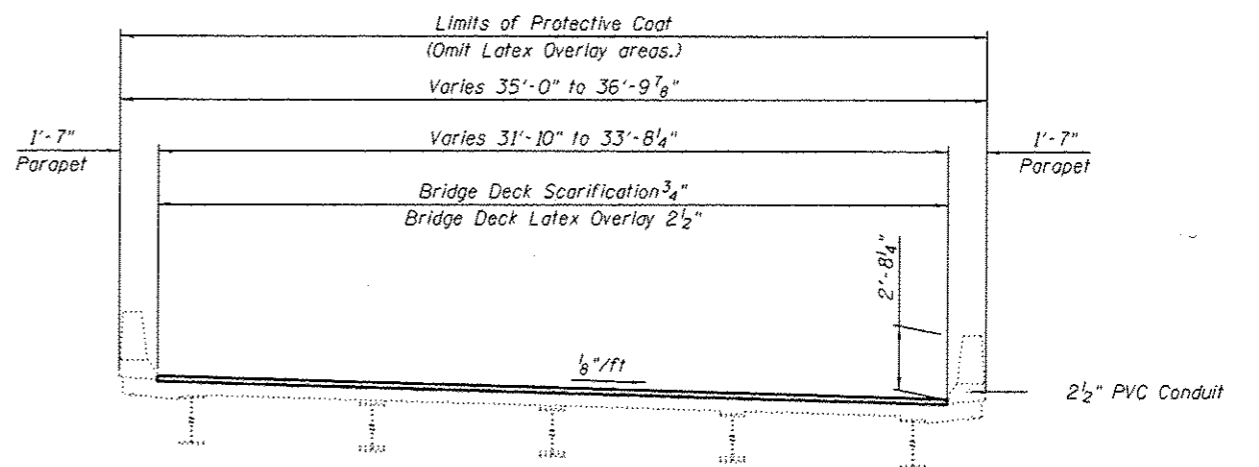
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LOOKING EAST



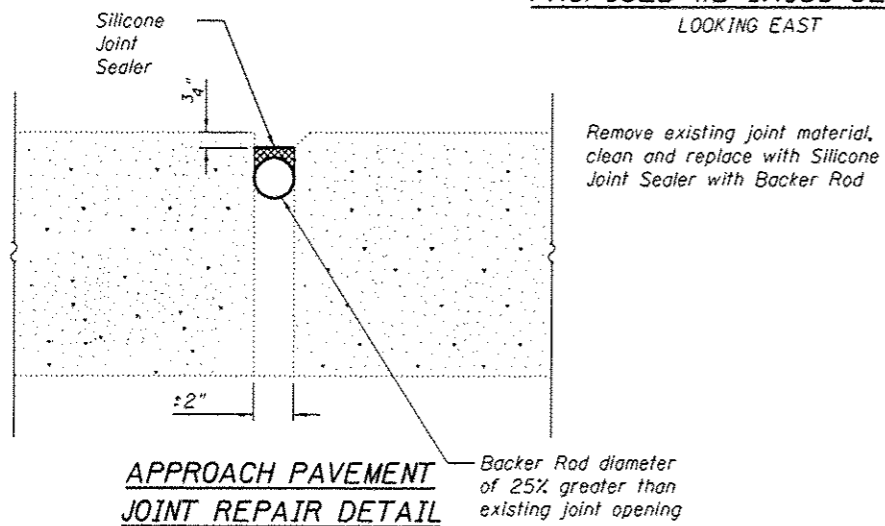
EXISTING EB CROSS SECTION
LOOKING EAST



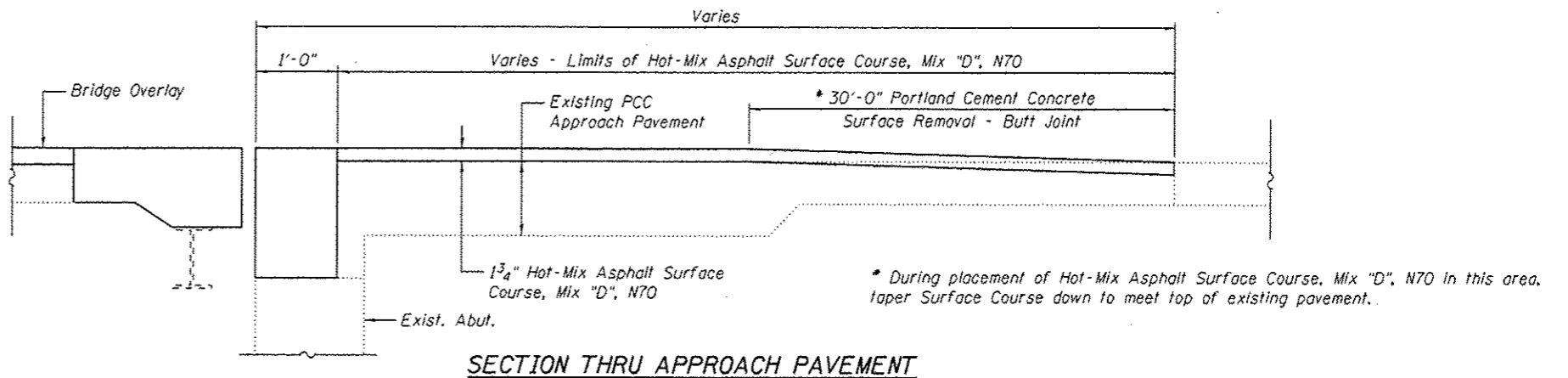
PROPOSED WB CROSS SECTION
LOOKING EAST



PROPOSED EB CROSS SECTION
LOOKING EAST



APPROACH PAVEMENT JOINT REPAIR DETAIL



SECTION THRU APPROACH PAVEMENT

DESIGNED - JGY
CHECKED - ATH
DRAWN - Steffen
CHECKED - JGY ATH

PASSED

Carl Perry
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 15, 2016

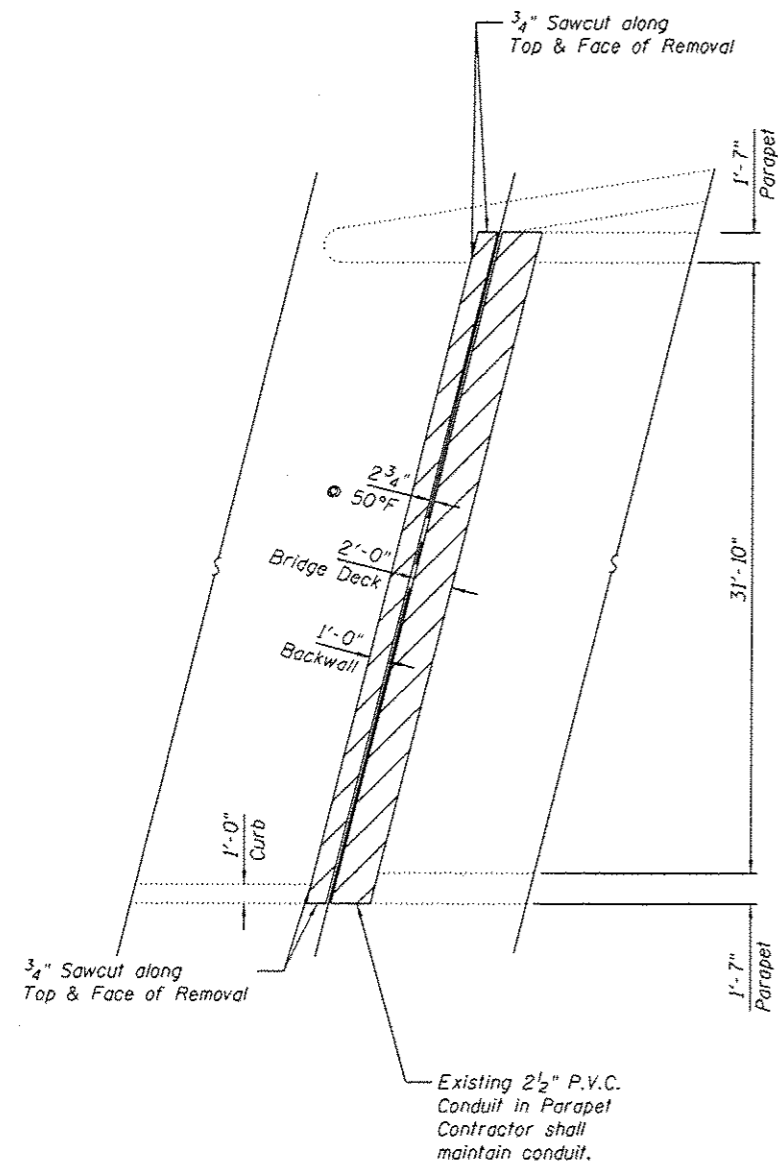
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

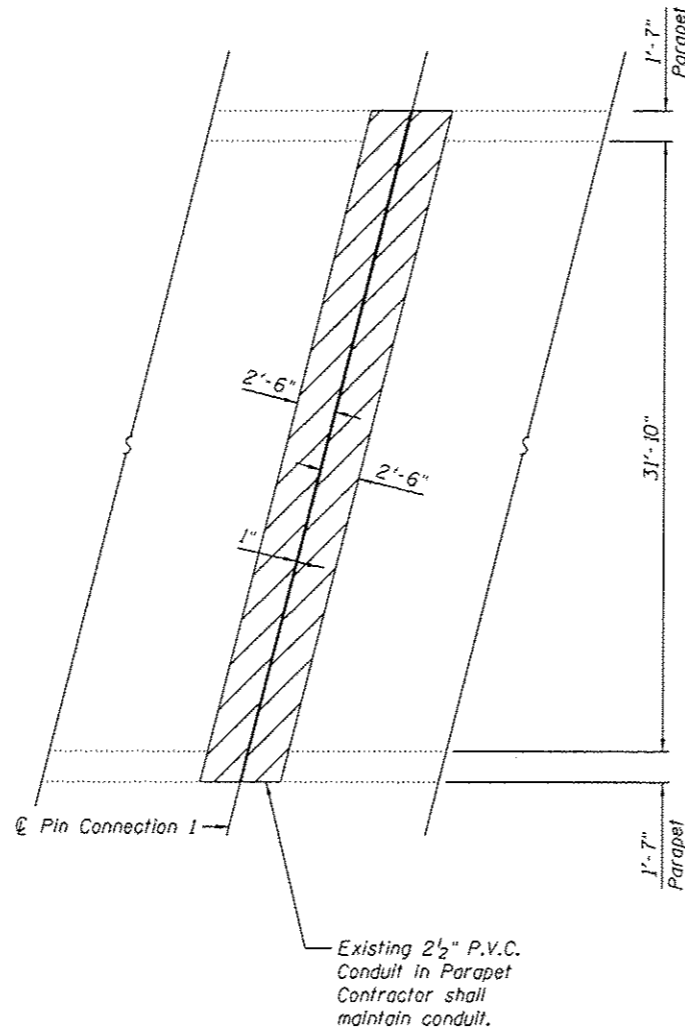
TYPICAL DECK SECTION
SN 016-2042 (EB) & -0243 (WB)

SHEET NO. 3 OF 10 SHEETS

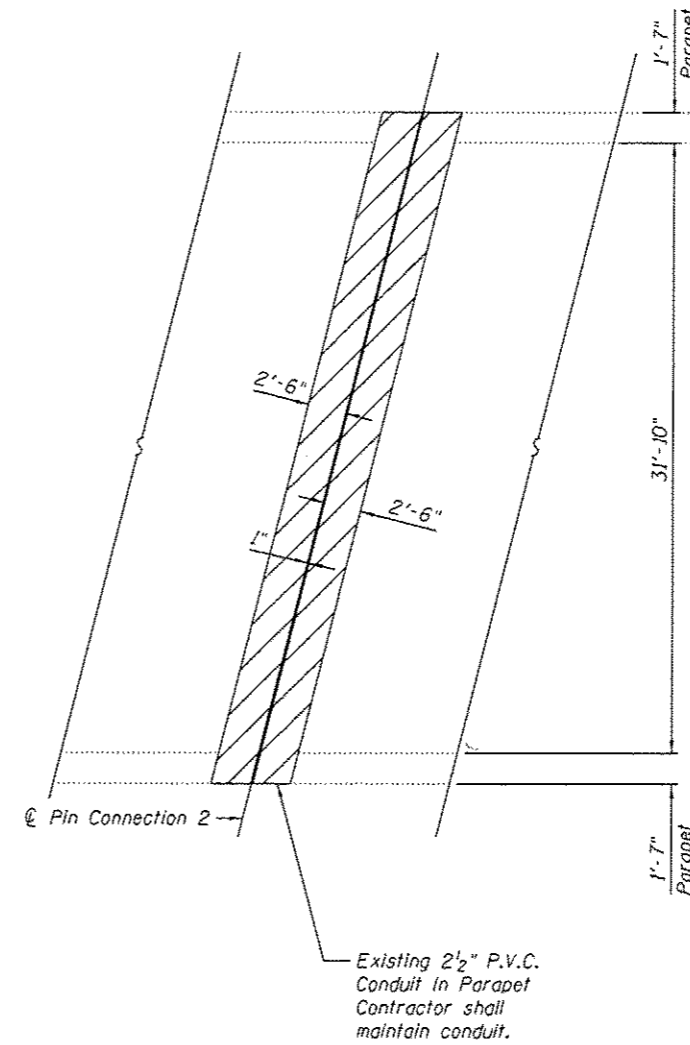
F.A.U. RTE. 1584	SECTION 1111-70HB-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 11
CONTRACT NO. 60M70				
ILLINOIS FED. AID PROJECT				



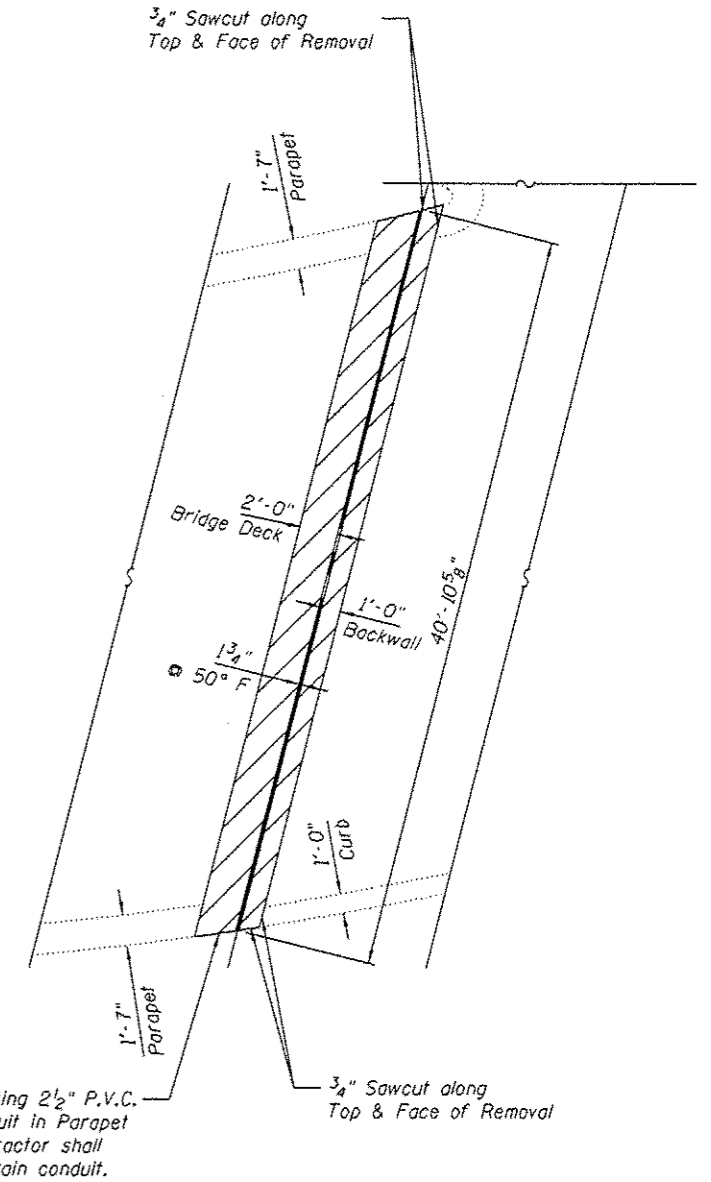
EXISTING WEST ABUTMENT



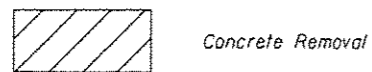
EXISTING PIN CONNECTION 1



EXISTING PIN CONNECTION 2



EXISTING EAST ABUTMENT



DESIGNED - JGY
CHECKED - ATH
DRAWN - Steffen
CHECKED - JGY ATH

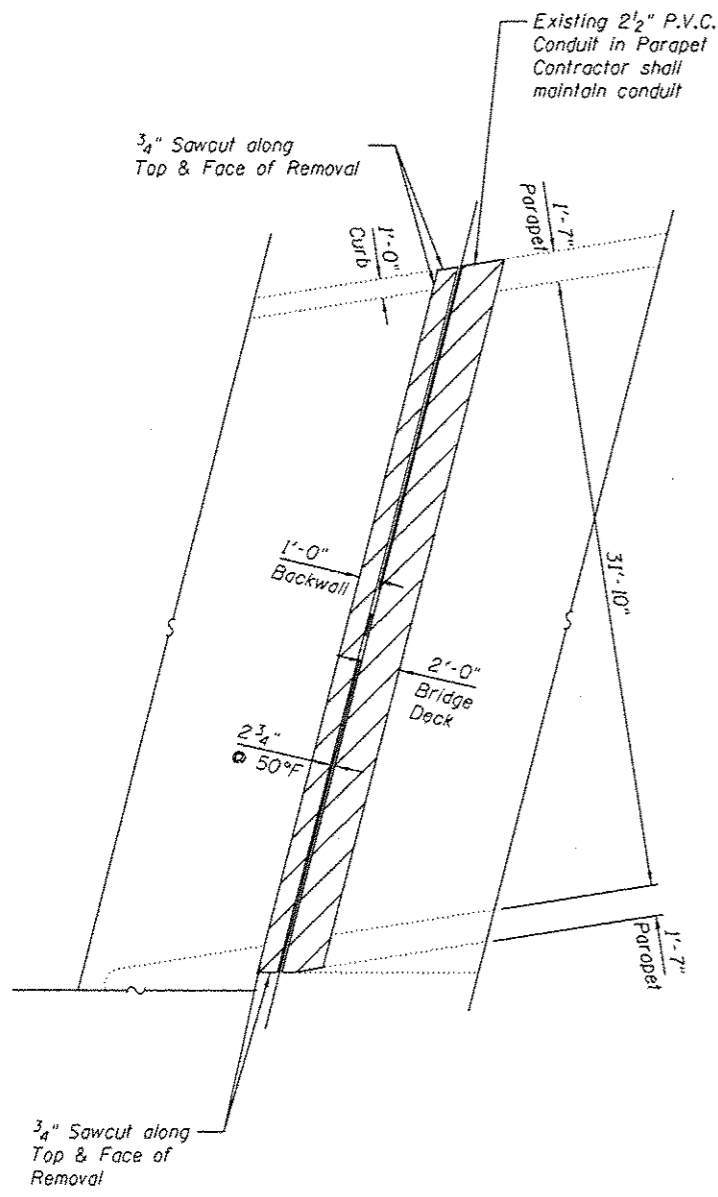
PASSED	<i>A. Carl Perry</i>
	ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 15, 2016
REVISED
REVISED

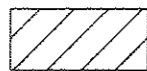
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

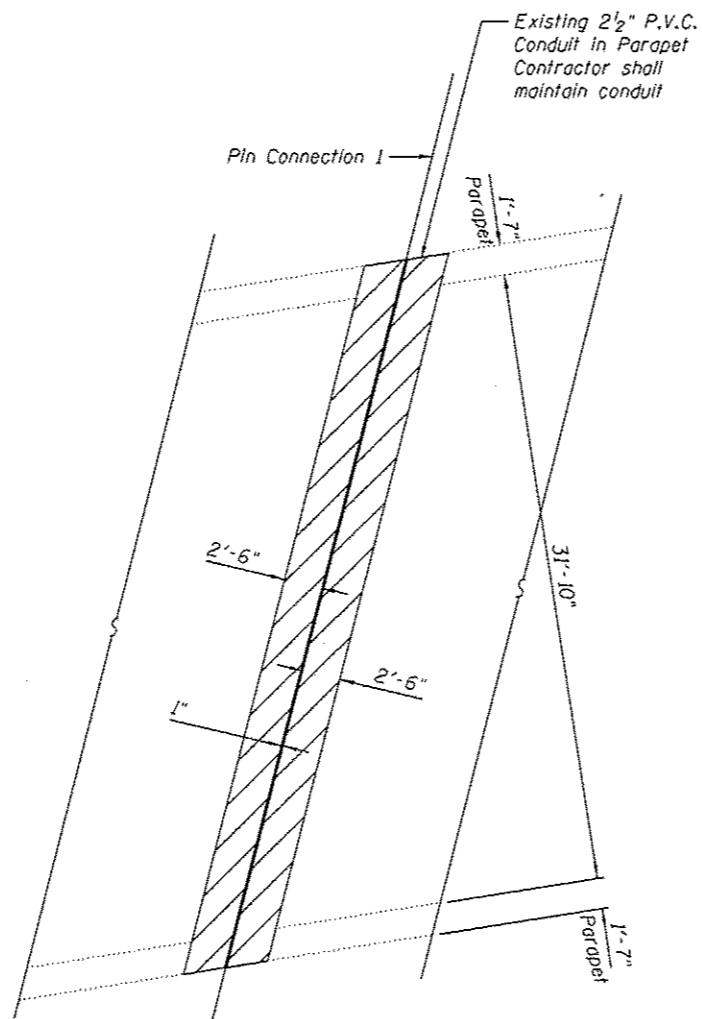
EXISTING JOINT PLAN
SN 016-2042 (EB)
SHEET NO. 4 OF 10 SHEETS

F.A.U. RTE. 1584	SECTION 1111-70HB-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 12
CONTRACT NO. 60M70				
ILLINOIS FED. AID PROJECT				

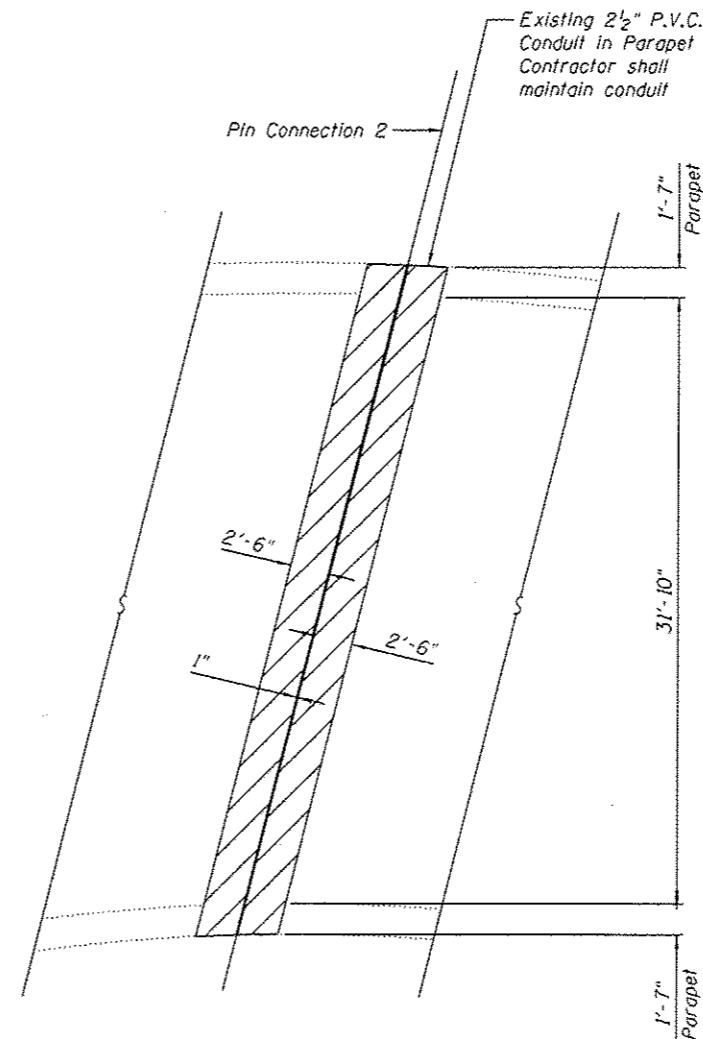


EXISTING WEST ABUTMENT

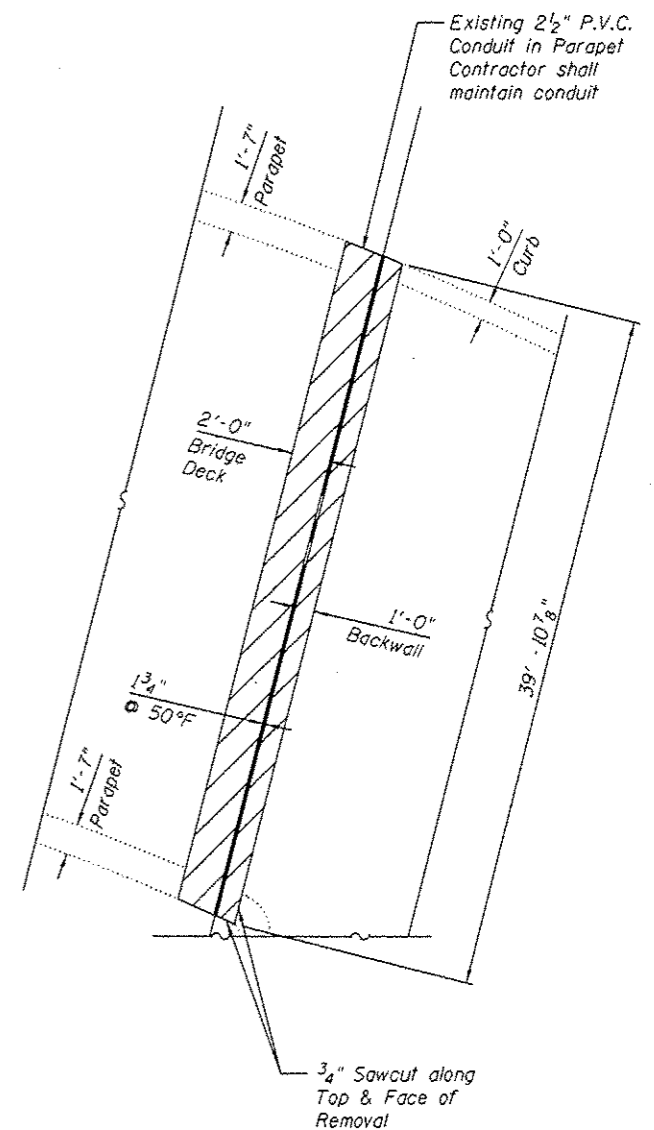
 Concrete Removal



EXISTING PIN CONNECTION 1




EXISTING PIN CONNECTION 2



EXISTING EAST ABUTMENT

DESIGNED - JGY
CHECKED - ATH
DRAWN - Steffen
CHECKED - JGY ATH

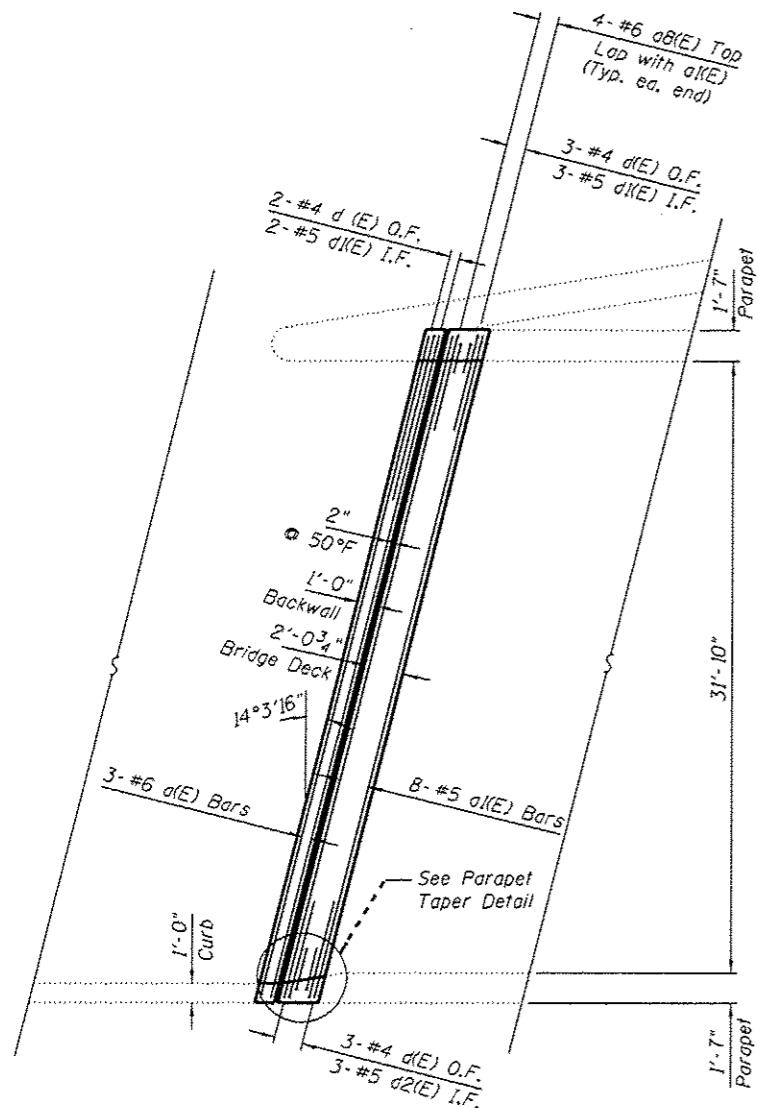
PASSED

 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 15, 2016
REVISED
REVISED

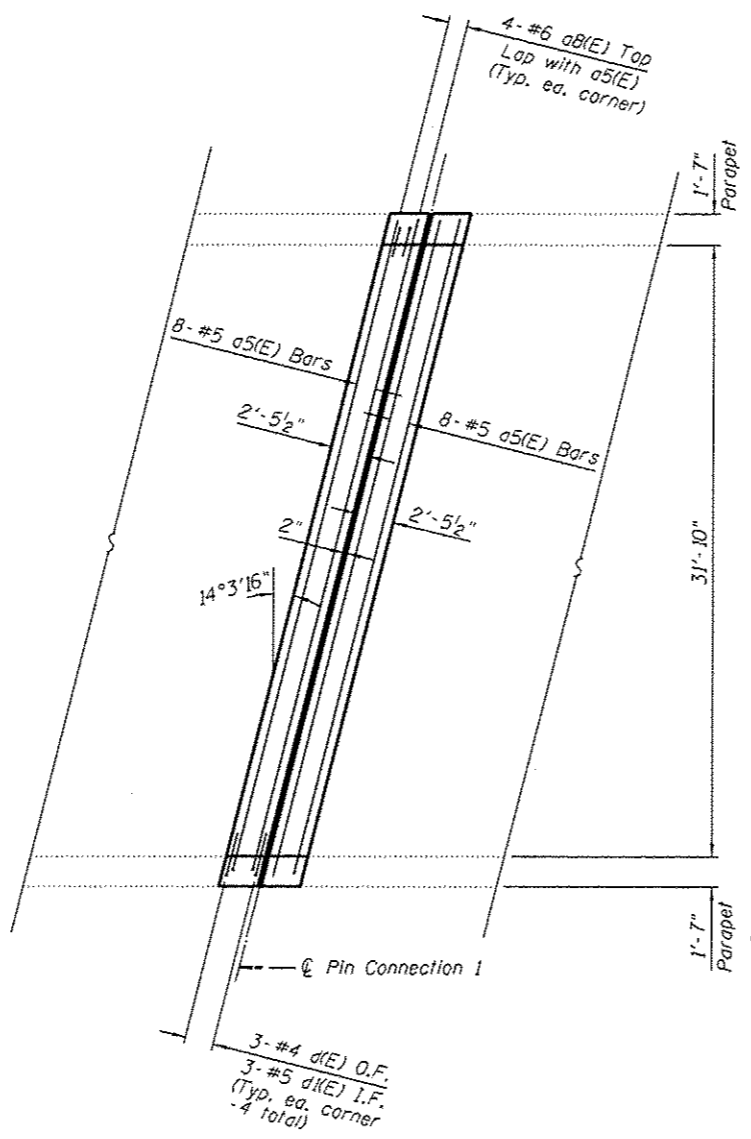
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING JOINT PLAN
 SN 016-2043 (WB)
 SHEET NO. 5 OF 10 SHEETS

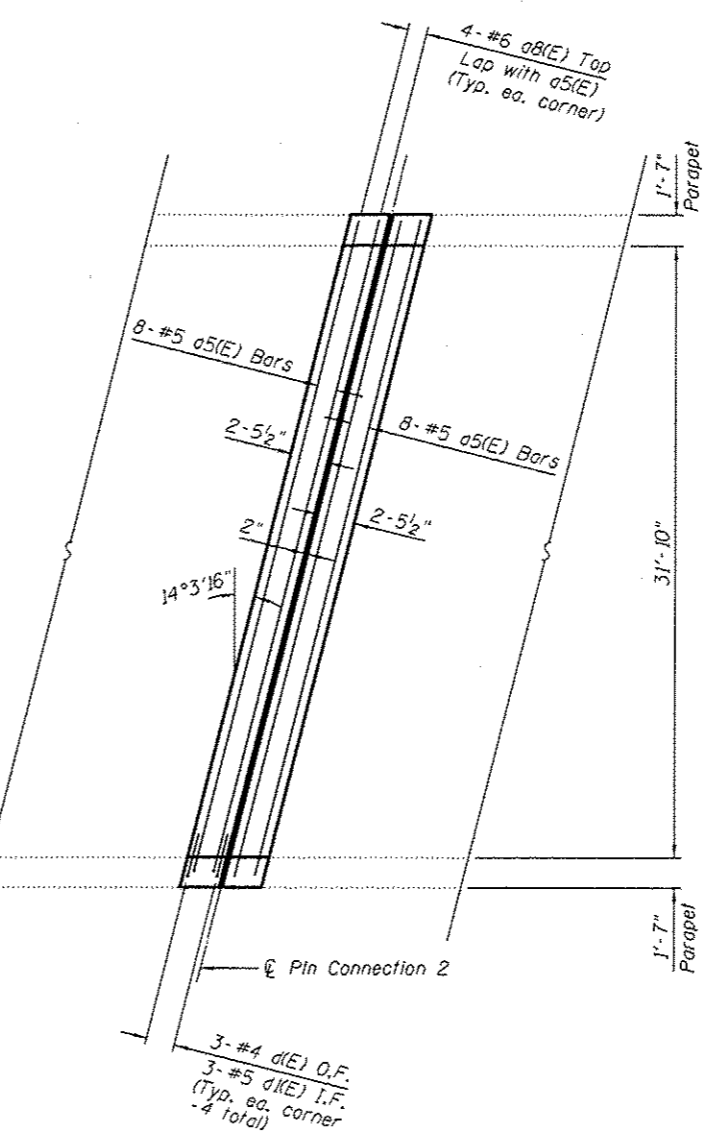
F.A.U. RTE. 1584	SECTION 1111-70HB-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 13
CONTRACT NO. 60M70				ILLINOIS FED. AID PROJECT



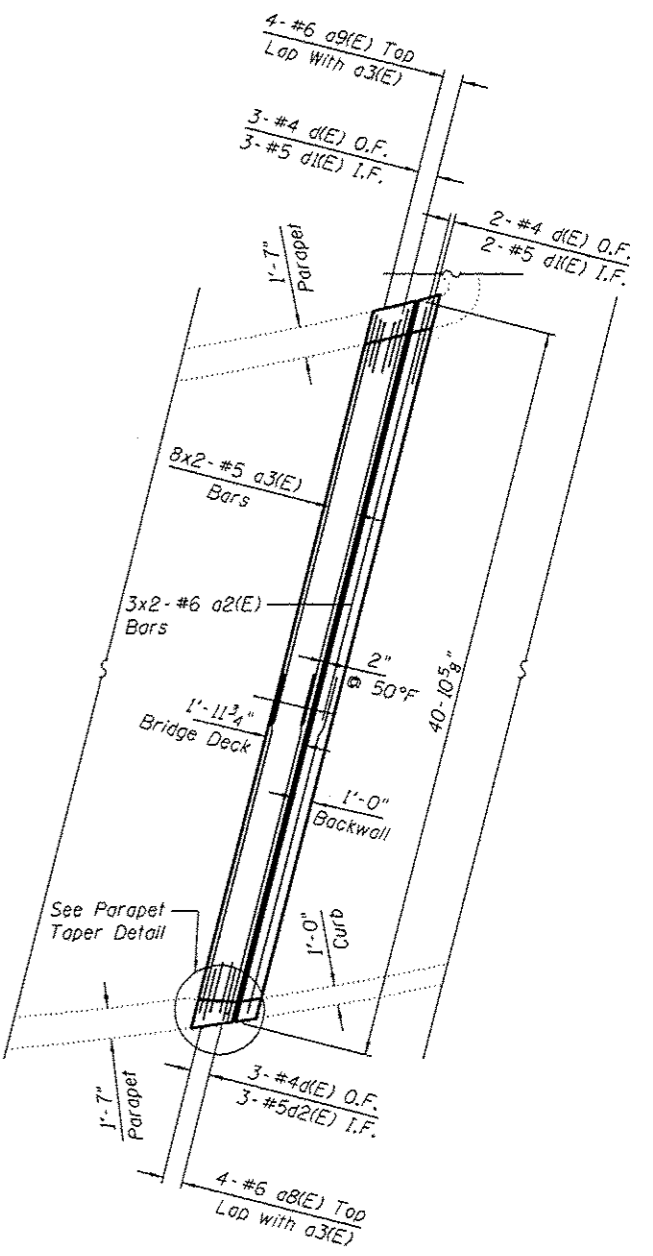
PROPOSED WEST ABUTMENT



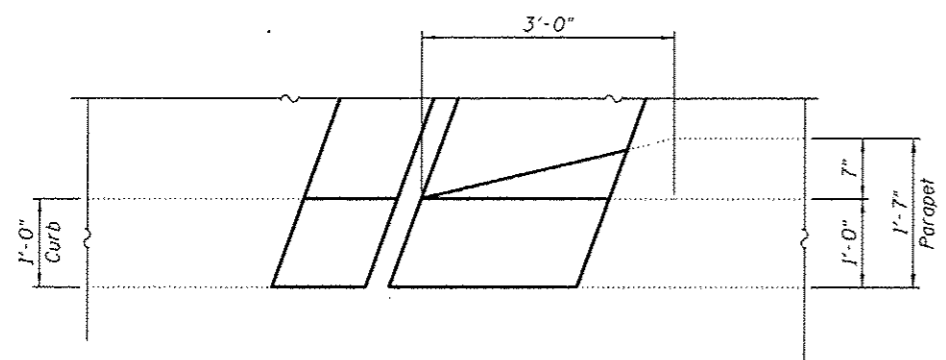
PROPOSED PIN CONNECTION 1



PROPOSED PIN CONNECTION 2



PROPOSED EAST ABUTMENT



PARAPET TAPER DETAIL

Note: Bars indicated thus 8x2- #5 etc. indicates 8 lines of bars with 2 lengths per line.

MIN. BAR LAP
 #5 Bars = 3'-6"
 #6 Bars = 3'-7"

DESIGNED - JGY
 CHECKED - ATH
 DRAWN - Steffen
 CHECKED - JGY ATH

PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES
Carl Berg

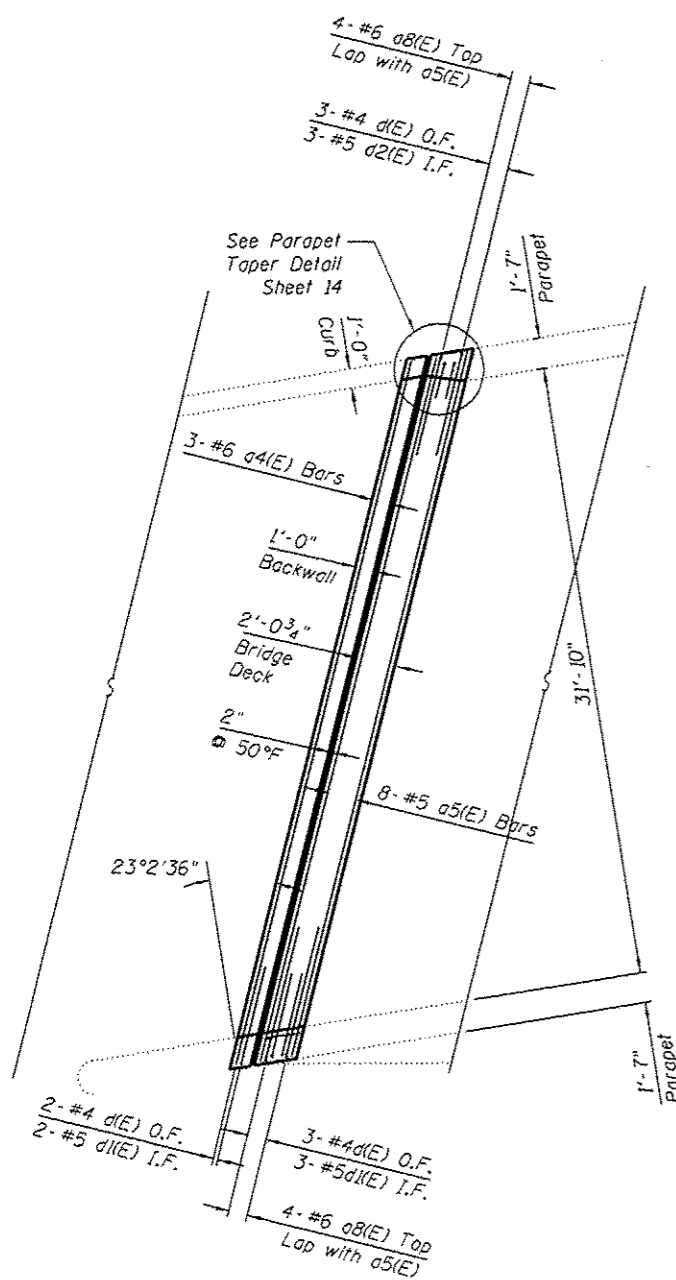
DATE - AUGUST 15, 2016
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

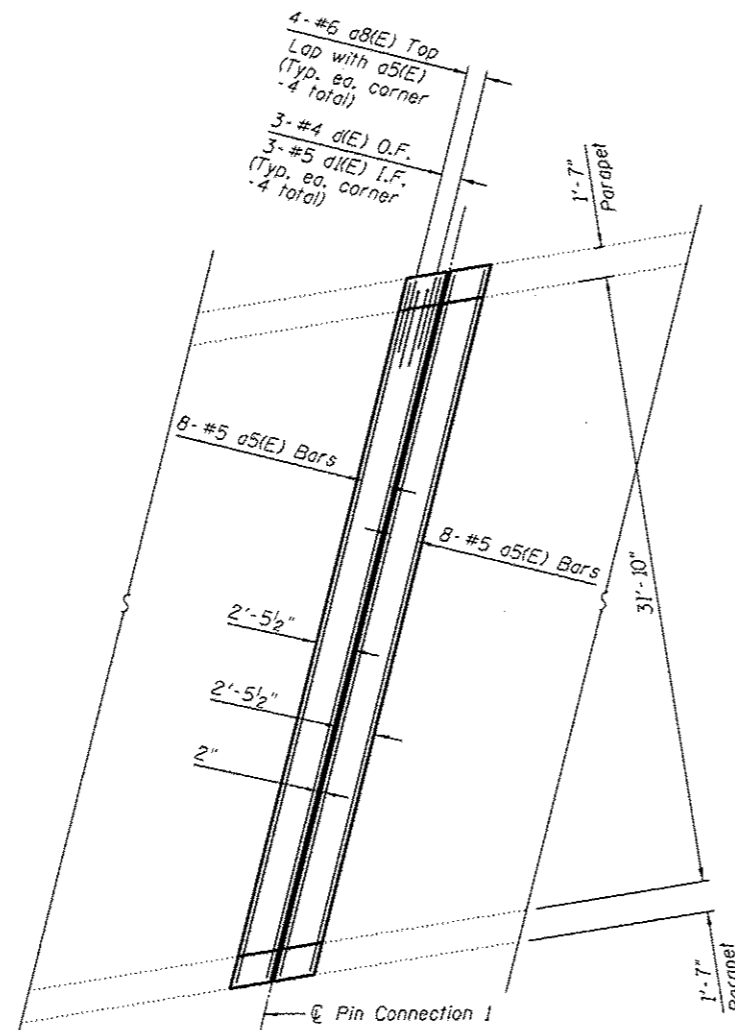
PROPOSED JOINT PLAN
 SN 016-2042 (EB)

SHEET NO. 6 OF 10 SHEETS

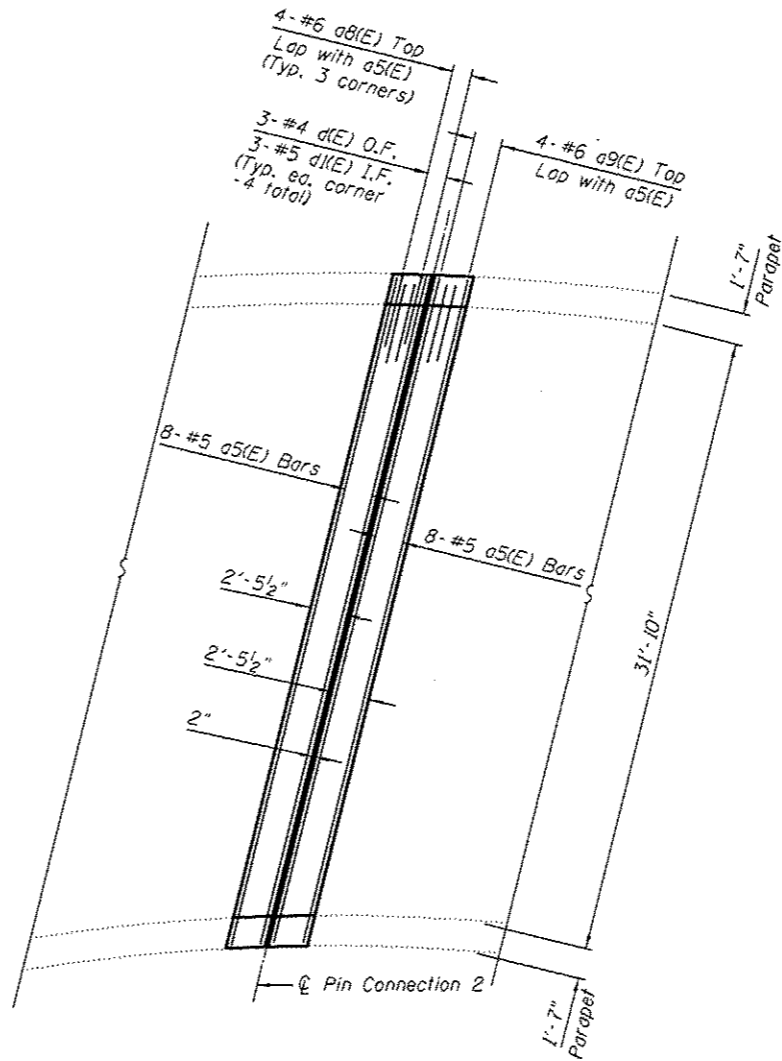
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70H8-1	CODK	25	14
CONTRACT NO. 60M70				
ILLINOIS FED. AID PROJECT				



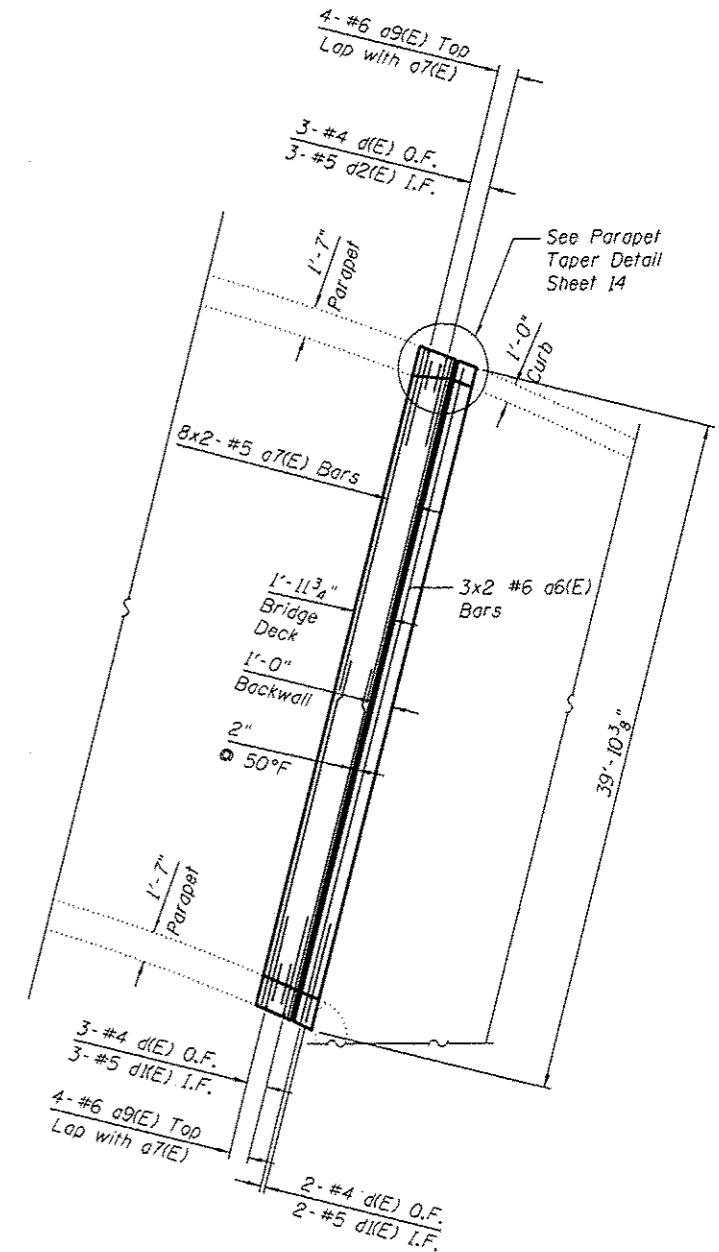
PROPOSED WEST ABUTMENT



PROPOSED PIN CONNECTION 1



PROPOSED PIN CONNECTION 2




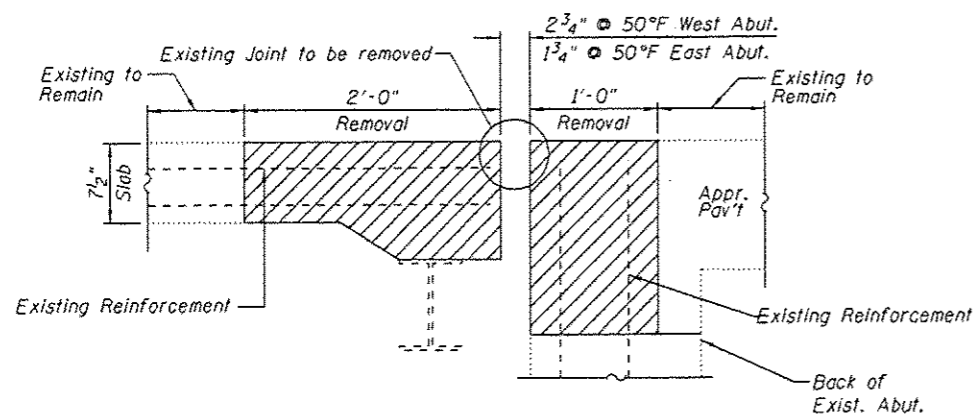
PROPOSED EAST ABUTMENT

Note: Bars indicated thus 8x2-#5 etc. indicates 8 lines of bars with 2 lengths per line.

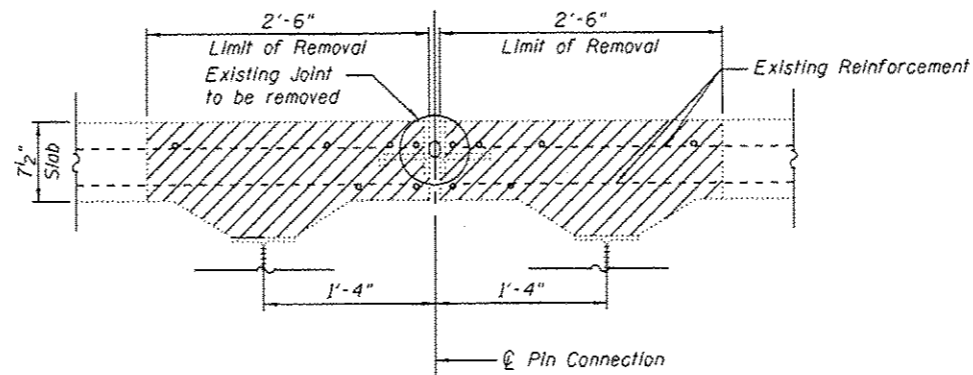
MIN. BAR LAP

#5 Bars = 3'-6"
#6 Bars = 3'-7"

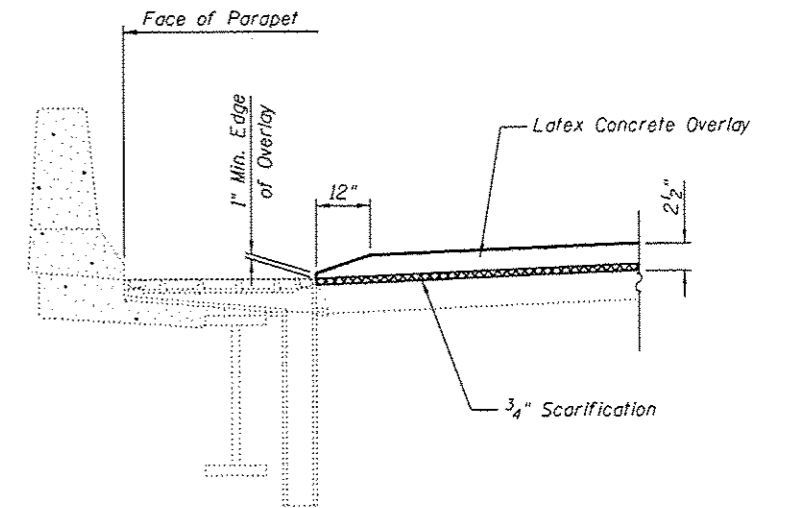
DESIGNED - JGY	DATE - AUGUST 15, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED JOINT PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH	REVISOR		SN 016-2043 (WB)	1584	1111-70HB-1	COOK	25	15
DRAWN - Steffan	REVISOR	 ACTING ENGINEER OF BRIDGES AND STRUCTURES	SHEET NO. 7 OF 10 SHEETS	CONTRACT NO. 60M70				
CHECKED - JGY ATH	REVISOR		ILLINOIS FED. AID PROJECT					



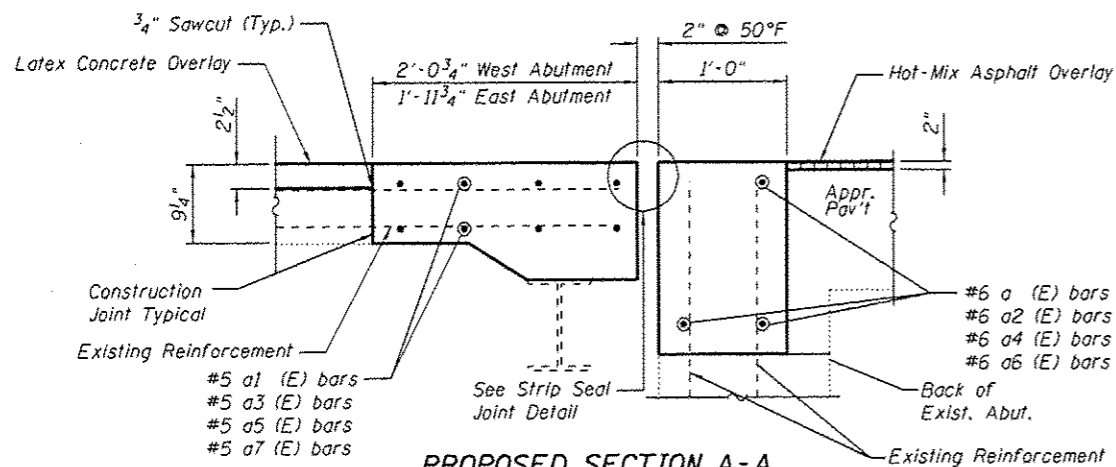
EXISTING SECTION A-A



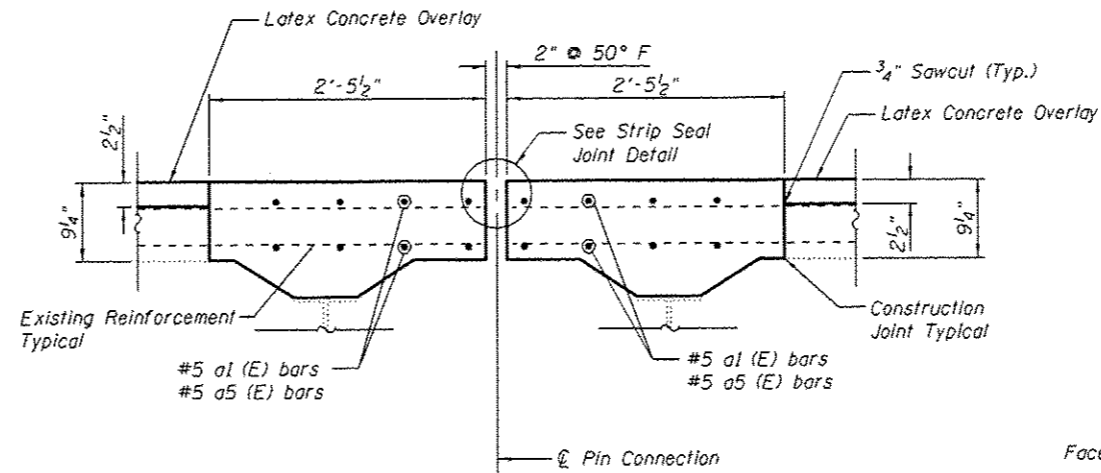
EXISTING SECTION B-B



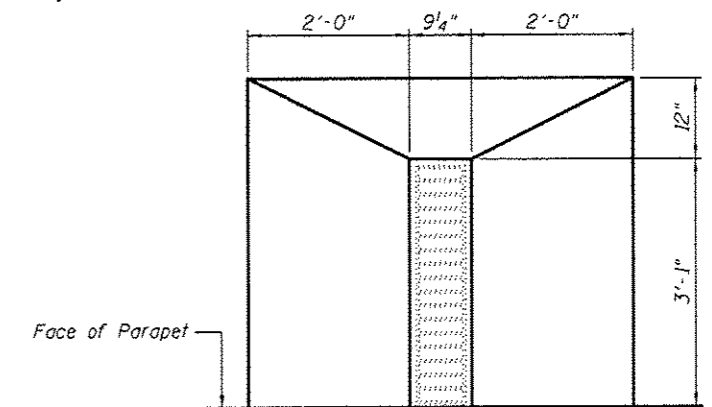
SECTION AT SCUPPER



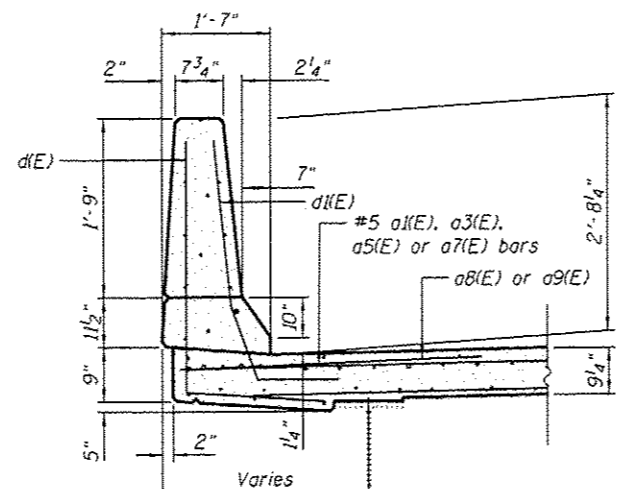
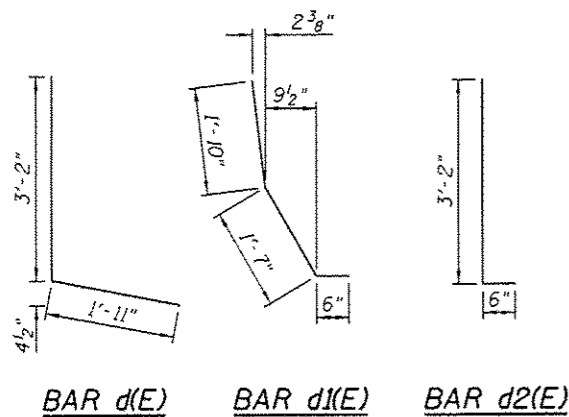
**PROPOSED SECTION A-A
WEST & EAST ABUTMENT**



**PROPOSED SECTION B-B
PIN CONNECTION 1 & 2**



PLAN AT SCUPPER



Note: Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.

SECTION THRU PARAPET AT JOINT

NOTES

- Existing reinforcement bars shown are to be cleaned and incorporated into 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.
- Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- Removal and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- If existing name plate falls within the limits of Concrete Removal, it shall be removed and reinstalled in its original location in accordance with IDOT Std. 515001. Cost included with Concrete Superstructure.
- If existing guardrail and/or end shoe fall within the limits of Concrete Removal, they shall be removed and reinstalled in their original locations in accordance with District 1 Std. BM-21. Cost included with Concrete Superstructure.
- The Contractor shall exercise extreme care with any existing conduits in sections of the parapet to be removed and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work, instead the Contractor will be required to repair the entire span of any damaged cable at no additional cost to the Department.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	3	6	35'-3"	—
a1 (E)	8	5	35'-3"	—
a2 (E)	6	6	21'-3"	—
a3 (E)	16	5	21'-3"	—
a4 (E)	3	6	37'-3"	—
a5 (E)	72	5	37'-3"	—
a6 (E)	6	6	20'-9"	—
a7 (E)	16	5	20'-6"	—
a8(E)	80	6	4'-0"	—
a9 (E)	16	6	7'-0"	—
d (E)	80	4	5'-1"	—
d1 (E)	68	5	3'-11"	—
d2 (E)	12	5	3'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	5740
Concrete Removal			Cu. Yd.	44.2
Concrete Superstructure			Cu. Yd.	50.8

DESIGNED - JGY
CHECKED - ATH
DRAWN - Steffan
CHECKED - JGY ATH

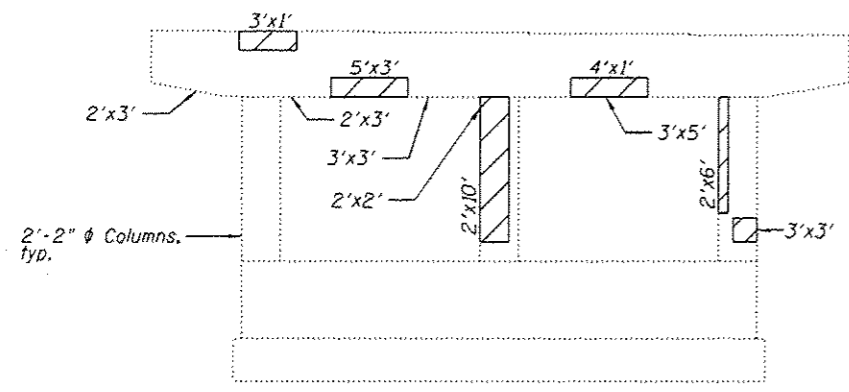
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - AUGUST 15, 2016
REVISED

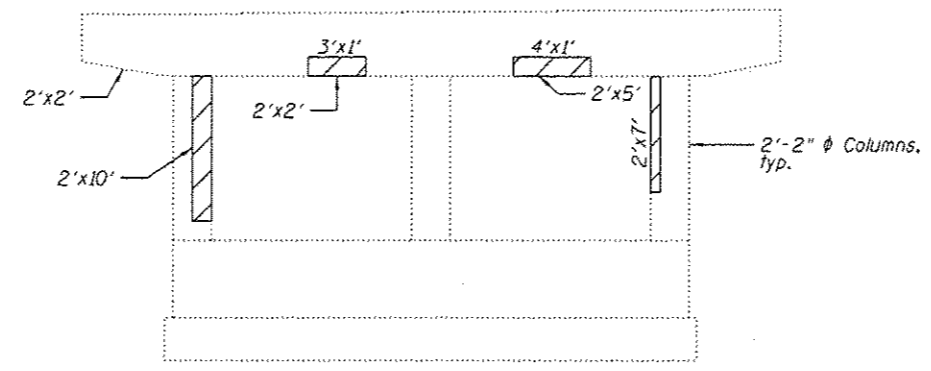
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
SN 016-2042 (EB) & -2043 (WB)
SHEET NO. 8 OF 10 SHEETS

F.A.U. RTE. 1584
SECTION 1111-704B-1
COUNTY COOK
TOTAL SHEETS 25
SHEET NO. 16
CONTRACT NO. 60M70
ILLINOIS FED. AID PROJECT



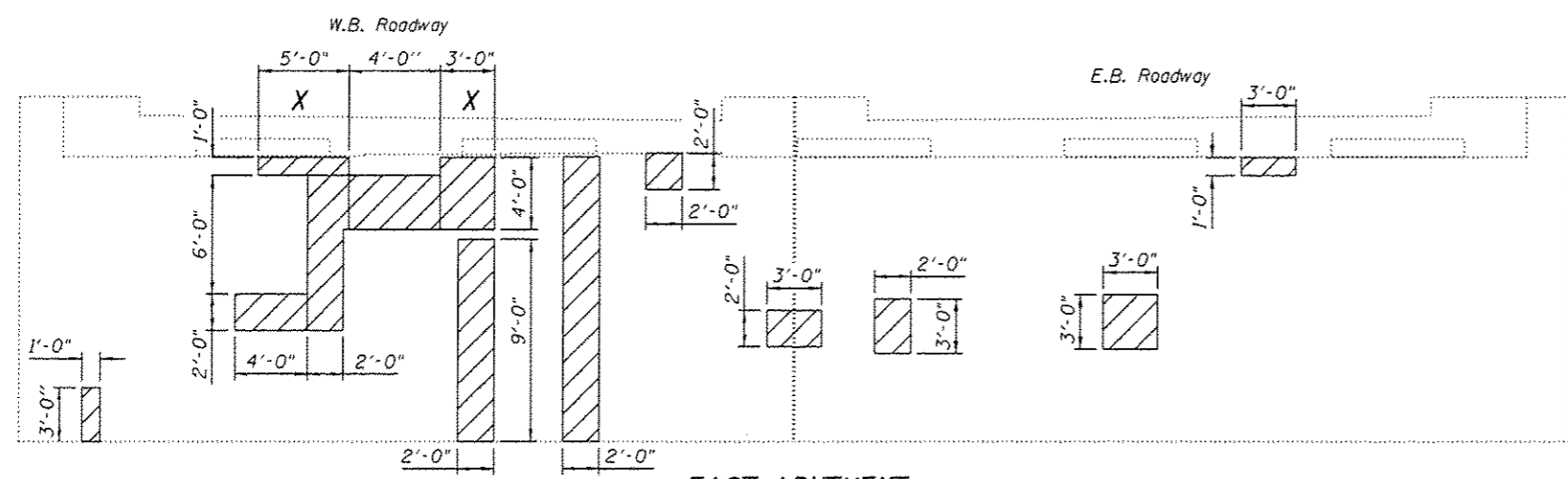
**115TH - EAST BOUND
PIER 1 - EAST FACE**



**115TH - WEST BOUND
PIER 1 - EAST FACE**

REACTION TABLE AT TEMPORARY SHORING

LOCATION	W. Abut.	Pier 1	Pier 2	E. Abut.
Q	(k) 12.2	51.3	70.0	26.2
L	(k) 33.6	49.9	52.2	42.2
Imp.	(k) 10.1	13.7	14.4	12.2
Total	(k) 55.9	114.9	136.6	80.6



**EAST ABUTMENT
(LOOKING EAST)**

LEGEND

- Structural Repair of Concrete
(Depth Equal to or Less Than 5 Inches)
- Slope Wall Removal
Slope Wall 4 Inch
- X - Temporary Shoring & Cribbing location

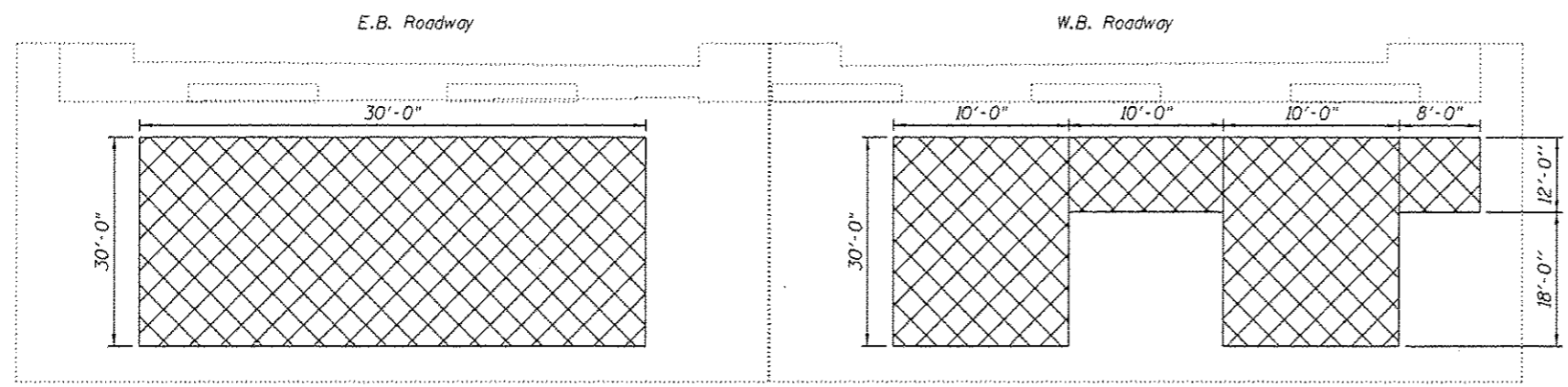
NOTES

The limits and locations of repair shown on this sheet are taken from the most recent surveys performed by the District in March 2010 and November 2010.

Repair areas are estimated. The Engineer shall determine actual repair locations and record them on the As-built plans.

Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. # W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

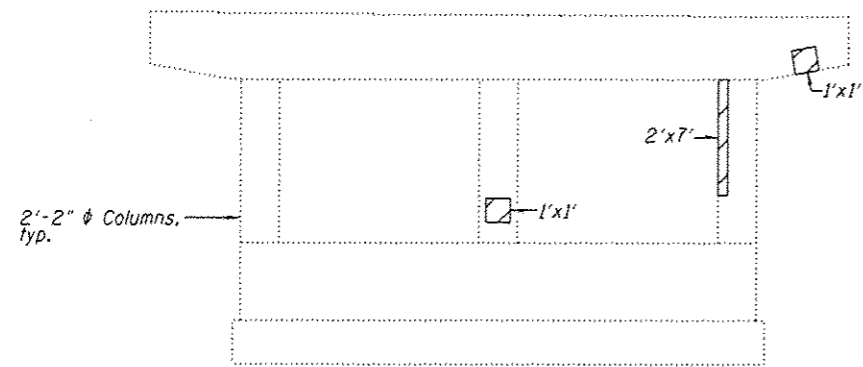
Porous Granular Embankment shall be used to fill the existing voids under the slope wall removal and replacement areas.



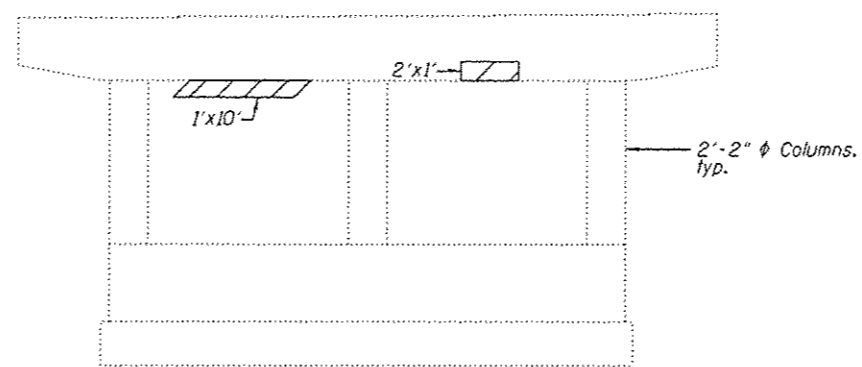
**WEST ABUTMENT
(LOOKING WEST)**

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	337
Slope Wall Removal	Sq. Yd.	191
Slope Wall 4 Inch	Sq. Yd.	191
Porous Granular Embankment	Cu. Yd.	20
Temporary Shoring & Cribbing	Each	3




115TH - WEST BOUND
PIER 1 - WEST FACE



115TH - EAST BOUND
PIER 1 - WEST FACE

LEGEND

 Structural Repair of Concrete
(Depth Equal to or Less Than 5 Inches)

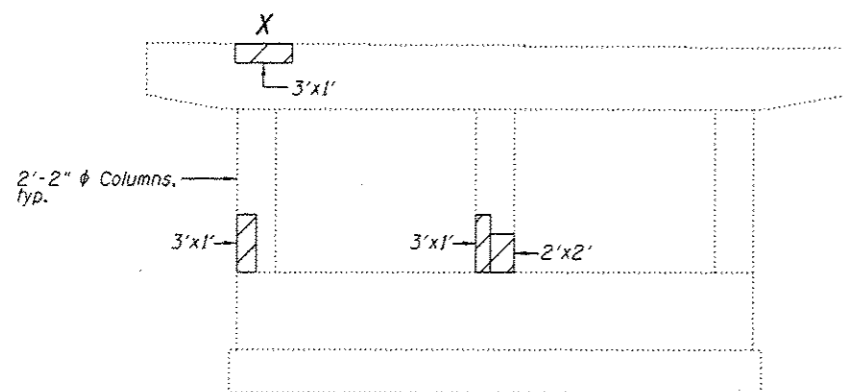
X - Temporary Shoring & Cribbing location

NOTES

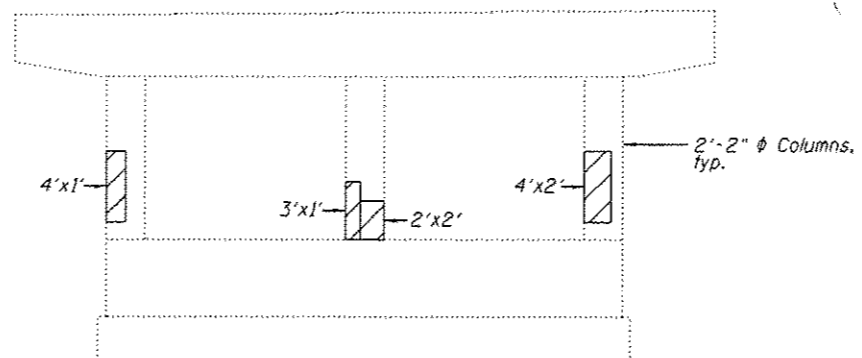
For Bill of Material and Reaction Table see sheet 9 of 10.

The limits and locations of repair shown on this sheet are taken from the most recent surveys performed by the District in March 2010 and November 2010.

Repair areas are estimated. The Engineer shall determine actual repair locations and record them on the As-built plans.



115TH - EAST BOUND
PIER 2 - EAST & WEST FACES



115TH - WEST BOUND
PIER 2 - EAST & WEST FACES

DESIGNED - JGY
CHECKED - ATH
DRAWN - Steffen
CHECKED - JGY ATH

PASSED

 ACTING ENGINEER OF BRIDGES AND STRUCTURES

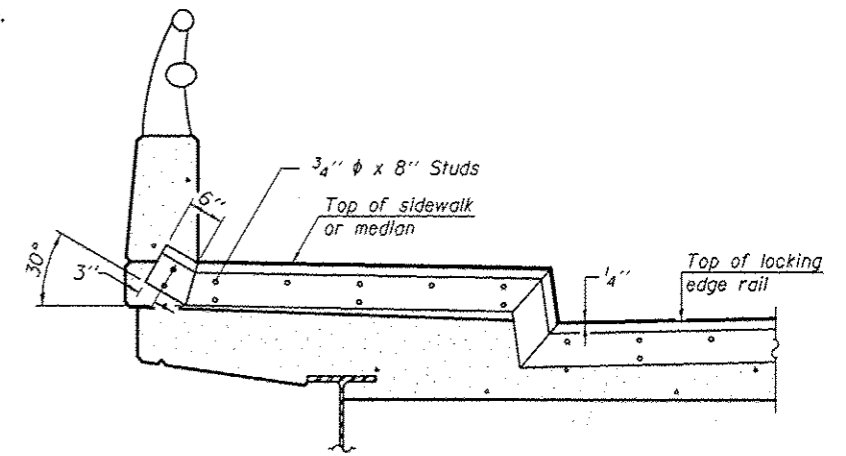
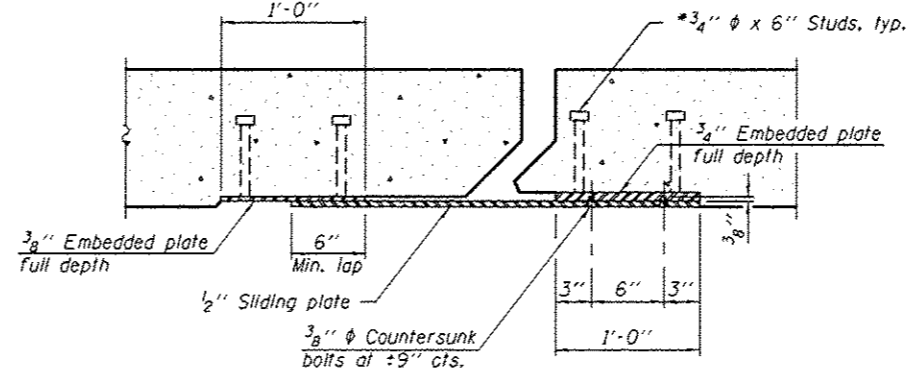
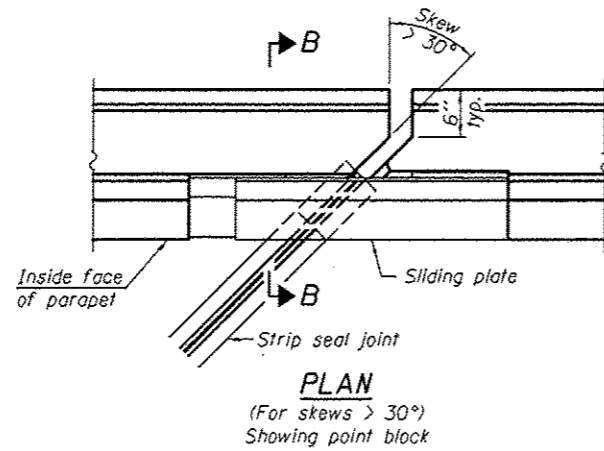
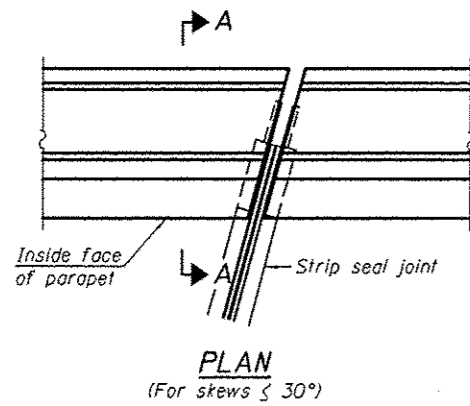
DATE - AUGUST 15, 2016
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIRS
SN 016-2042 (EB) & -2043 (WB)

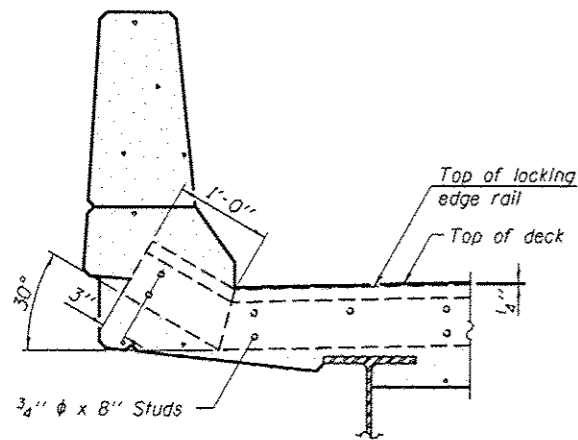
SHEET NO. 9A OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-1	COOK	25	17A
CONTRACT NO. 60M70			ILLINOIS FED. AID PROJECT	

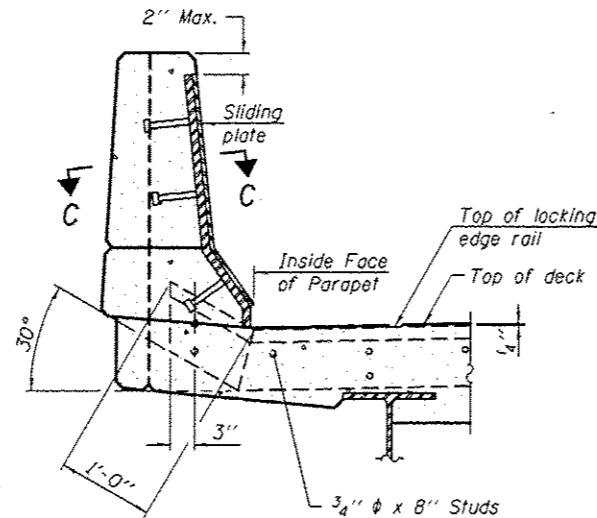


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

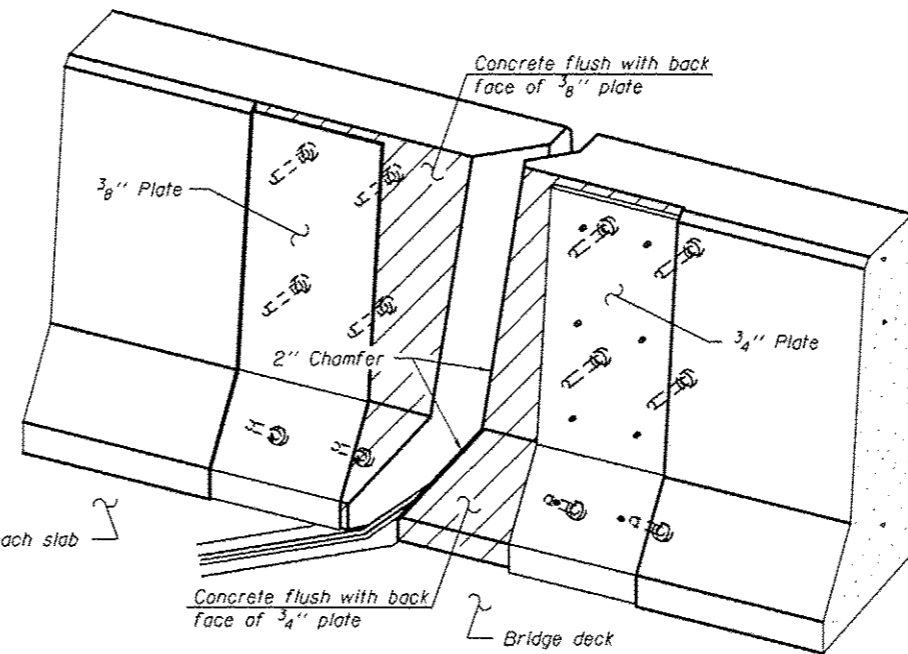
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



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.

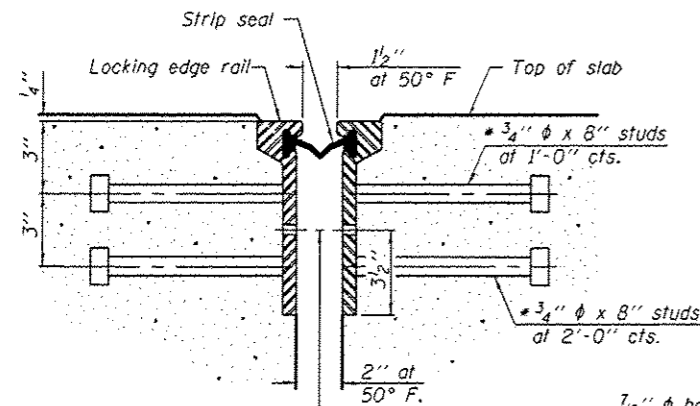
The manufacturer's recommended installation methods shall be followed.

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.

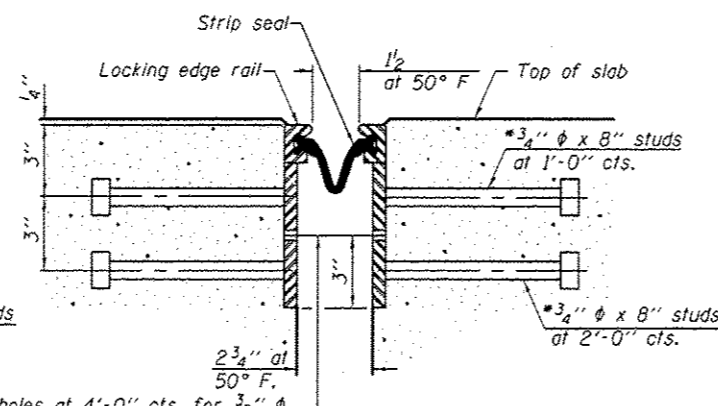
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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.

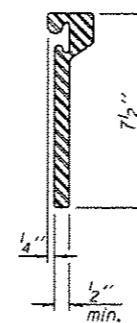
Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



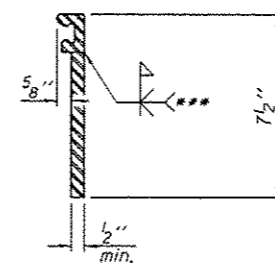
SECTION THRU ROLLED RAIL JOINT



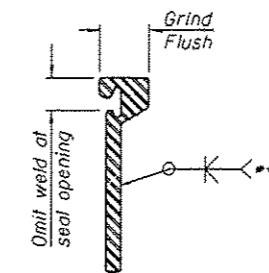
SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

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

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

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

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

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	301

EJ-SSJ

1-27-12

DESIGNED - JGY	CHECKED - ATH	DRAWN - Staffen	CHECKED - JGY ATH
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PASSED

ACTING ENGINEER OF BRIDGES AND STRUCTURES

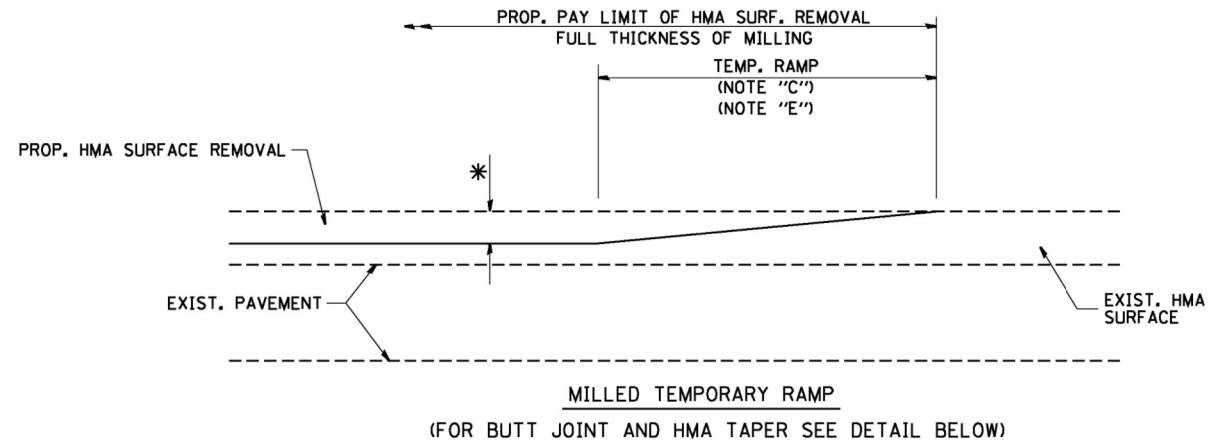
DATE - AUGUST 15, 2016	REVISED	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 016-2042 (EB) & -2043 (WB)

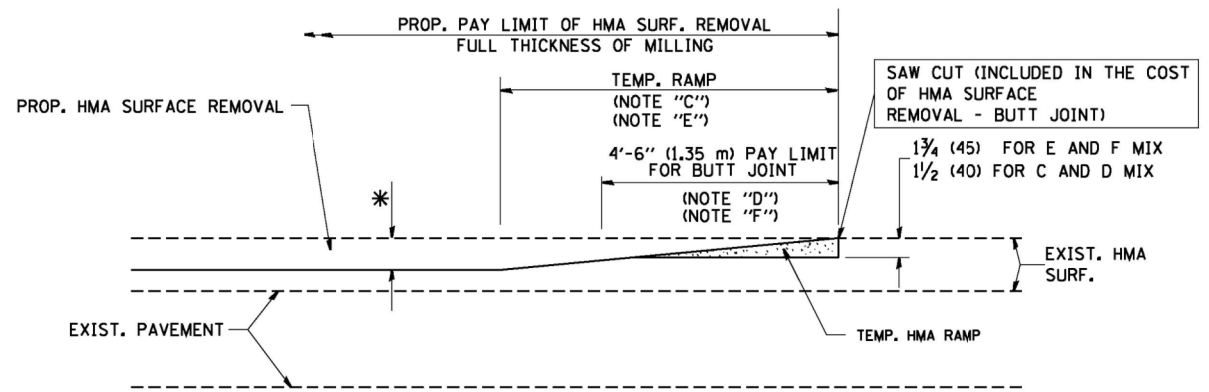
SHEET NO. 10 OF 10 SHEETS

F.A.U. RTE. 1584	SECTION 1111-70HB-1	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 18
				CONTRACT NO. 60M70
ILLINOIS FED. AID PROJECT				



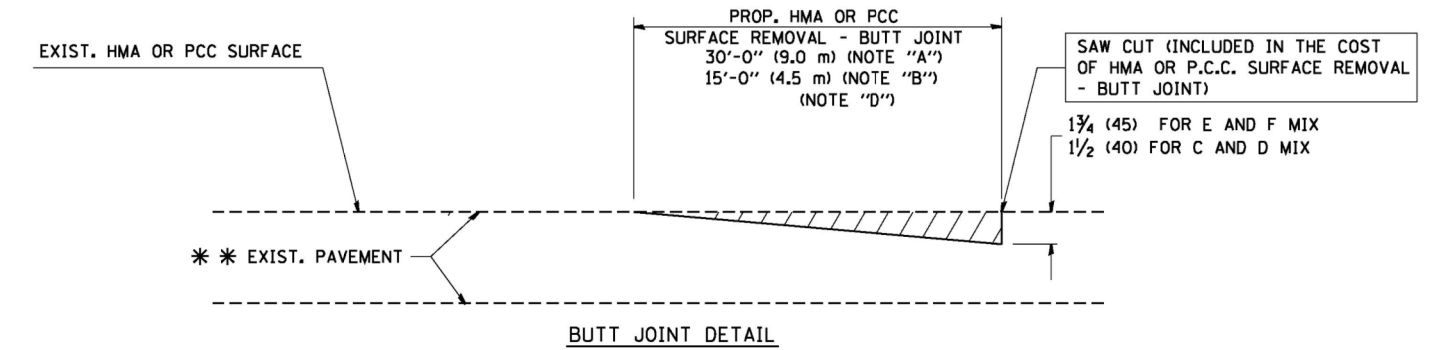
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

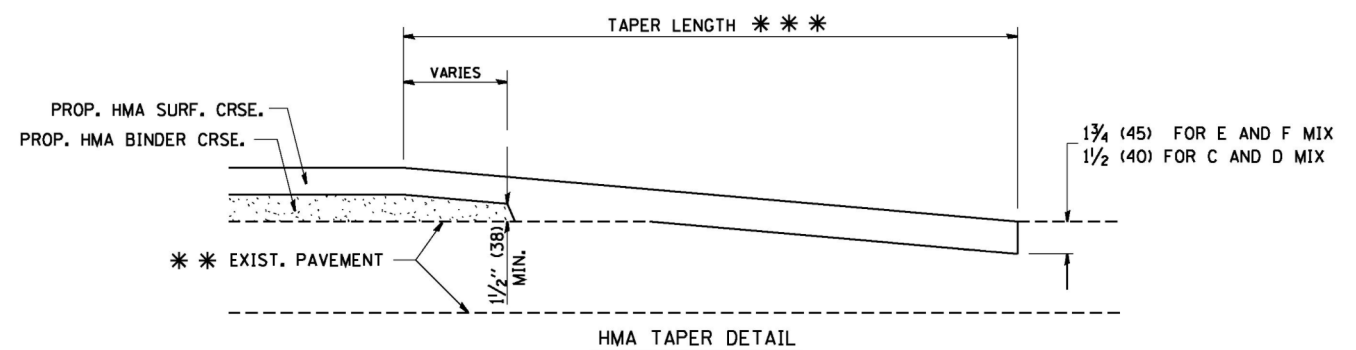


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

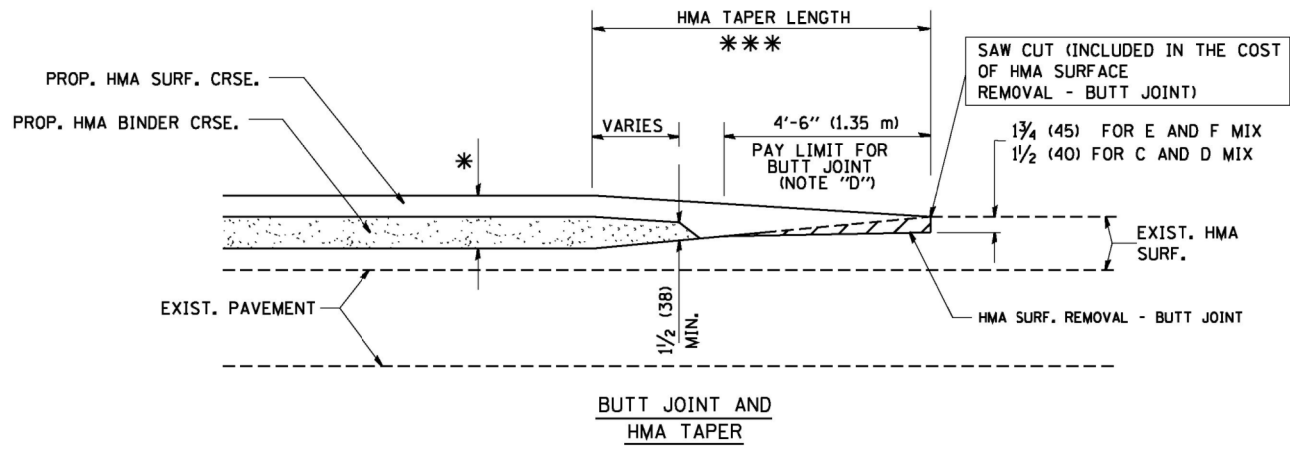
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

11/13/2014 9:53:53 AM G:\ENGS\06-5329-02 01 Various Structure\TASK ORDERS\TK-10_115th\CAD\Structure\Sht\DI6070-Sht-District Details.dgn



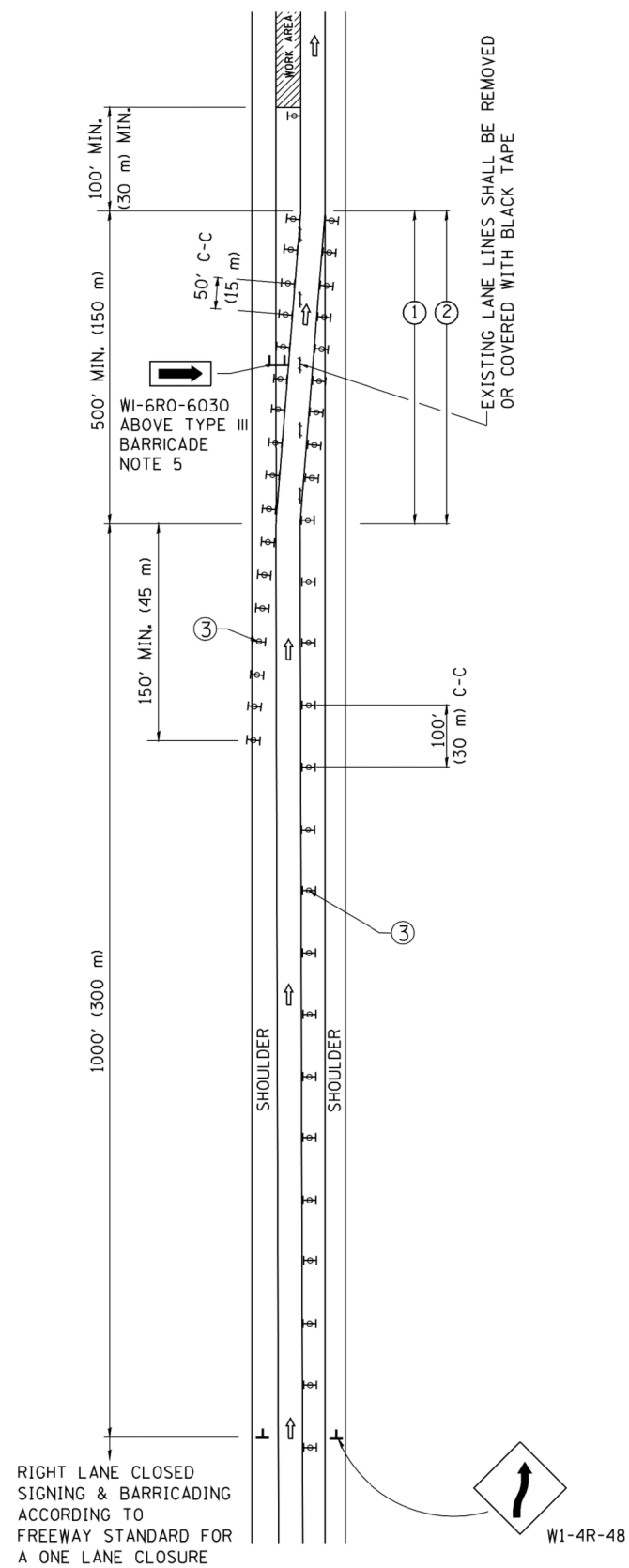
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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	DRAWN -	REVISED - M. GOMEZ 04-06-01
	CHECKED - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

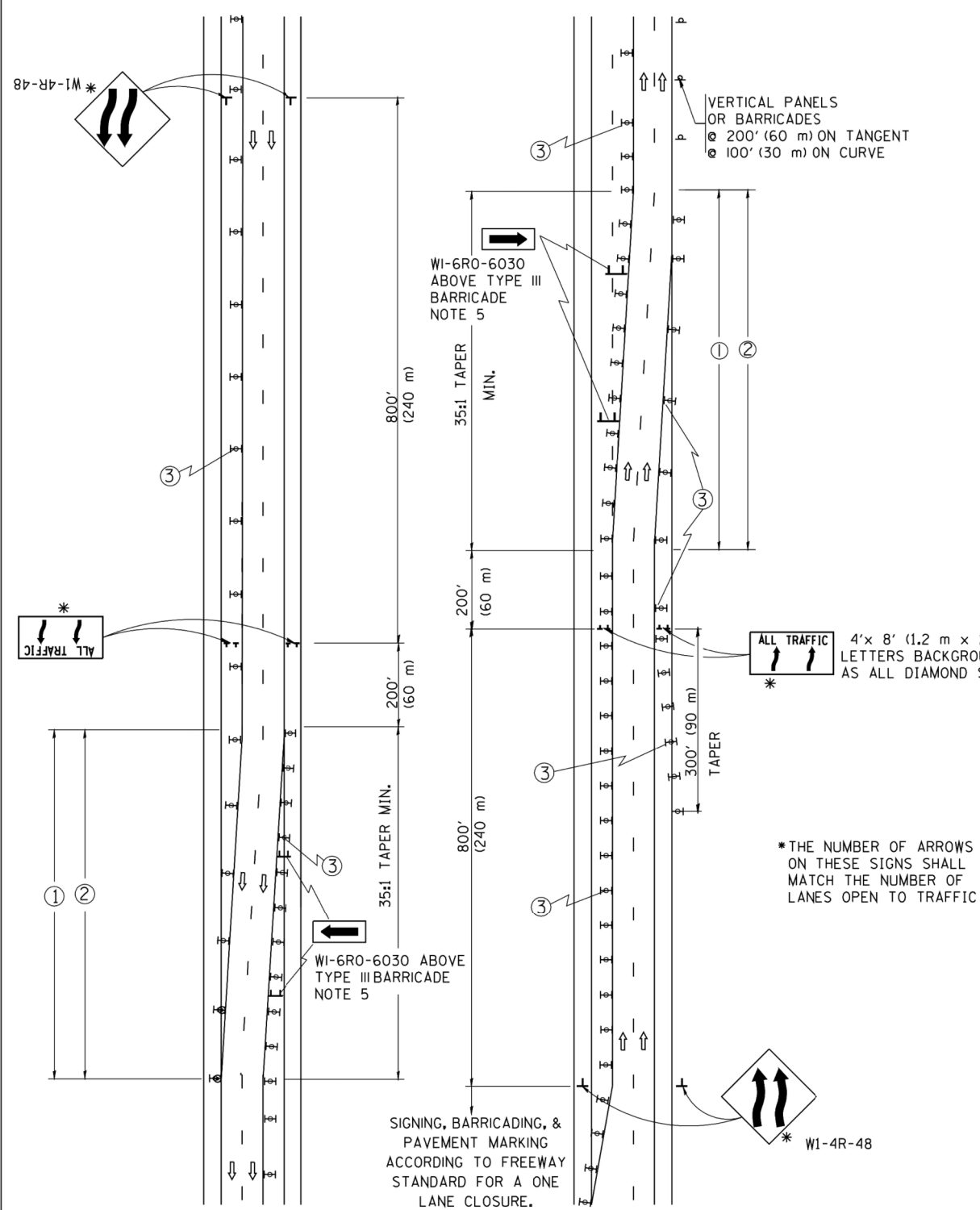
BUTT JOINT	
HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-I	COOK	25	19
BD400-05 BD32			CONTRACT NO. 60M70	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
 - IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

- ### SYMBOLS
- DIRECTION OF TRAFFIC
 - WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

9/23/2014 3:04:12 PM G:\ENGS\06-5329-02 01 Various Structure\TASK ORDERS\TK-10_115th\CAD\Structure\Sht\016070-Sht-District1_Details.dgn



USER NAME = gaglianob	DESIGNED - DWS	REVISED - DWS 11-96
PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - JAF 01-03
PLOT DATE = 1/4/2008	DRAWN -	REVISED - JAF 02-06
	CHECKED - 02-87	REVISED - SPB 01-07

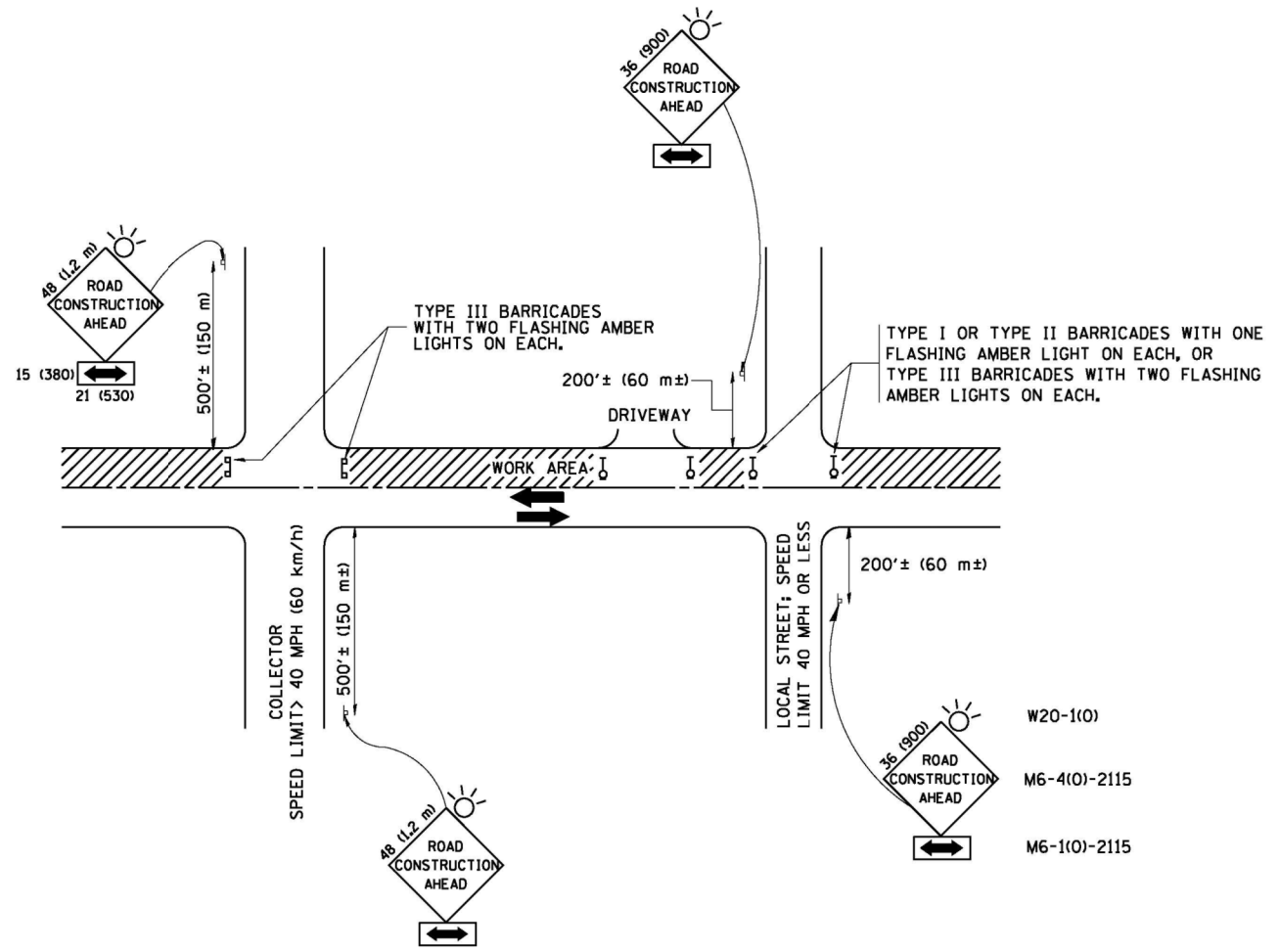
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-I	COOK	25	20
TC-09			CONTRACT NO. 60M70	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 - 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
 - C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.



USER NAME = gaglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
	CHECKED -	REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - A. HOUSEH 10-15-96
PLOT DATE = 1/4/2008	CHECKED - 06-89	REVISED - T. RAMMACHER 01-06-00

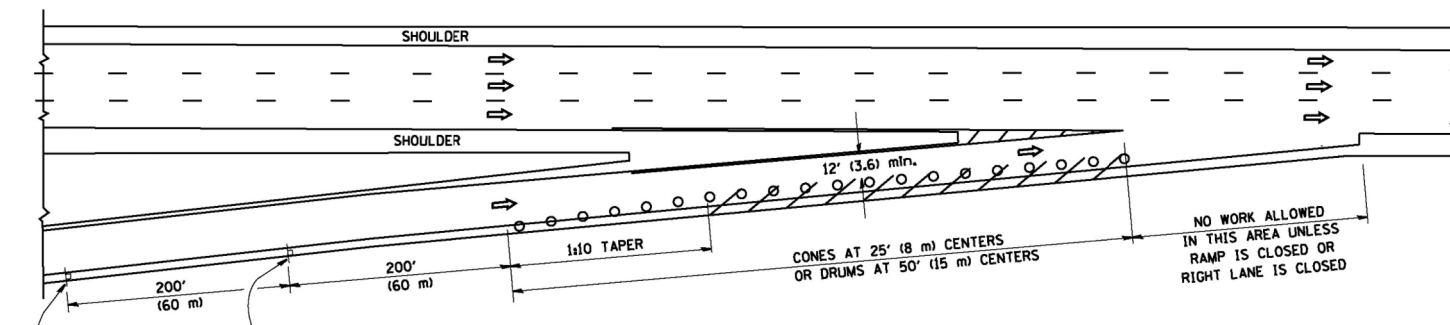
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

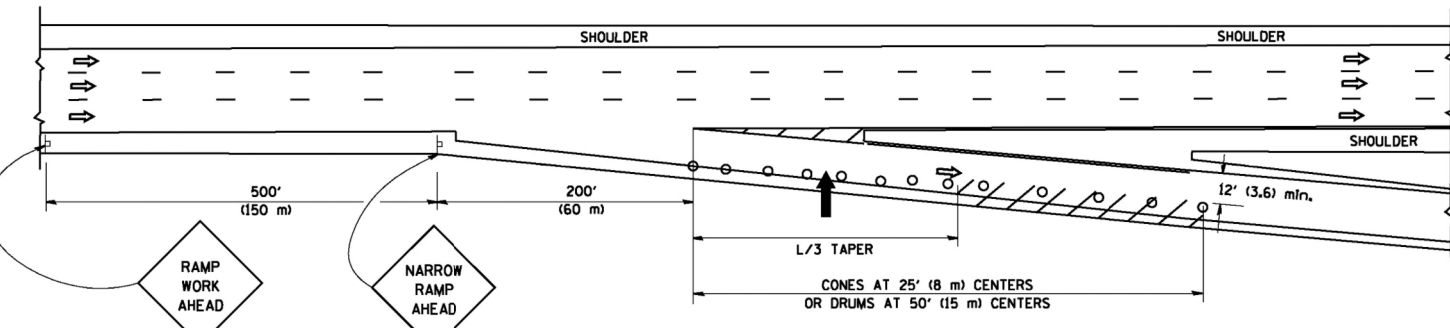
SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60M70	
<small>FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT</small>				

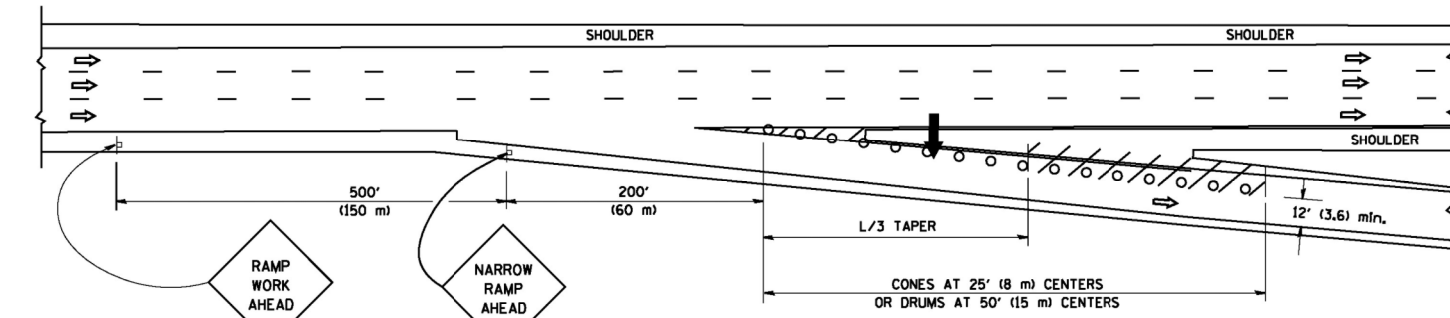
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

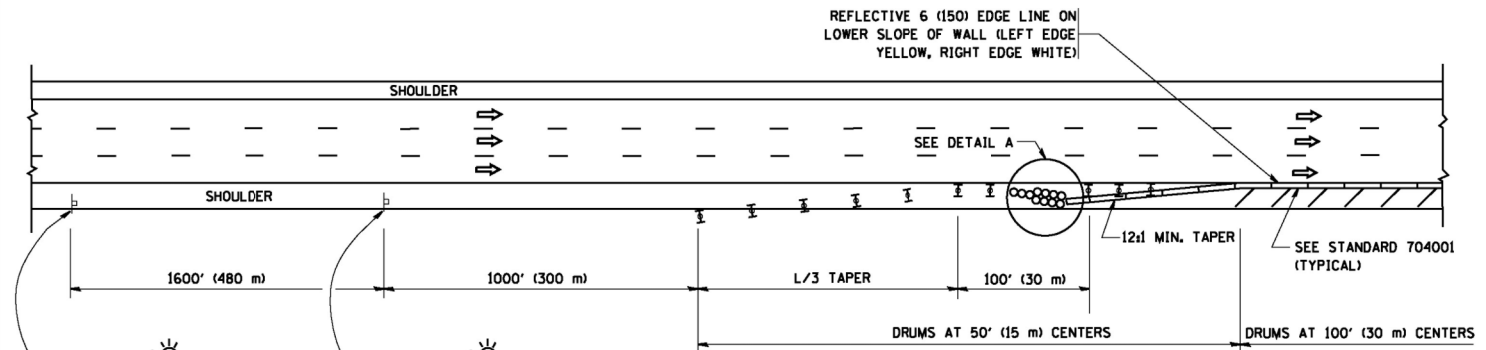
- ➔ ARROWBOARD
- ▨ WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

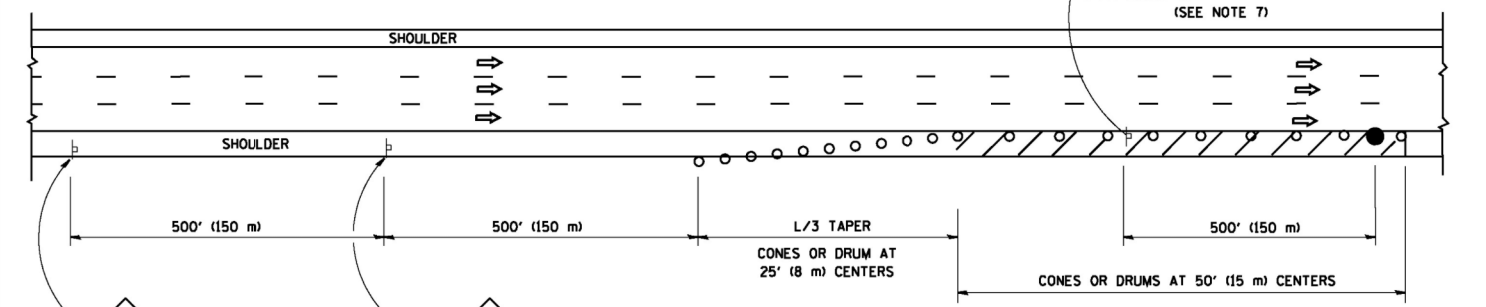
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L = 0.65(W)(S)$ $L = (W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

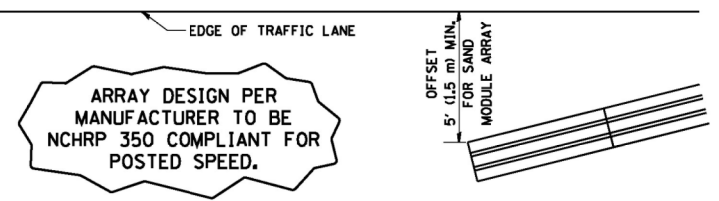
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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USER NAME = gaglienobt	DESIGNED -	REVISED - J.A.F. 12-02
	CHECKED - D.W.S.	REVISED - 04-03
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - J.A.F. 12-06
PLOT DATE = 1/4/2008	CHECKED - 11-96	REVISED - S.P.B. 01-07

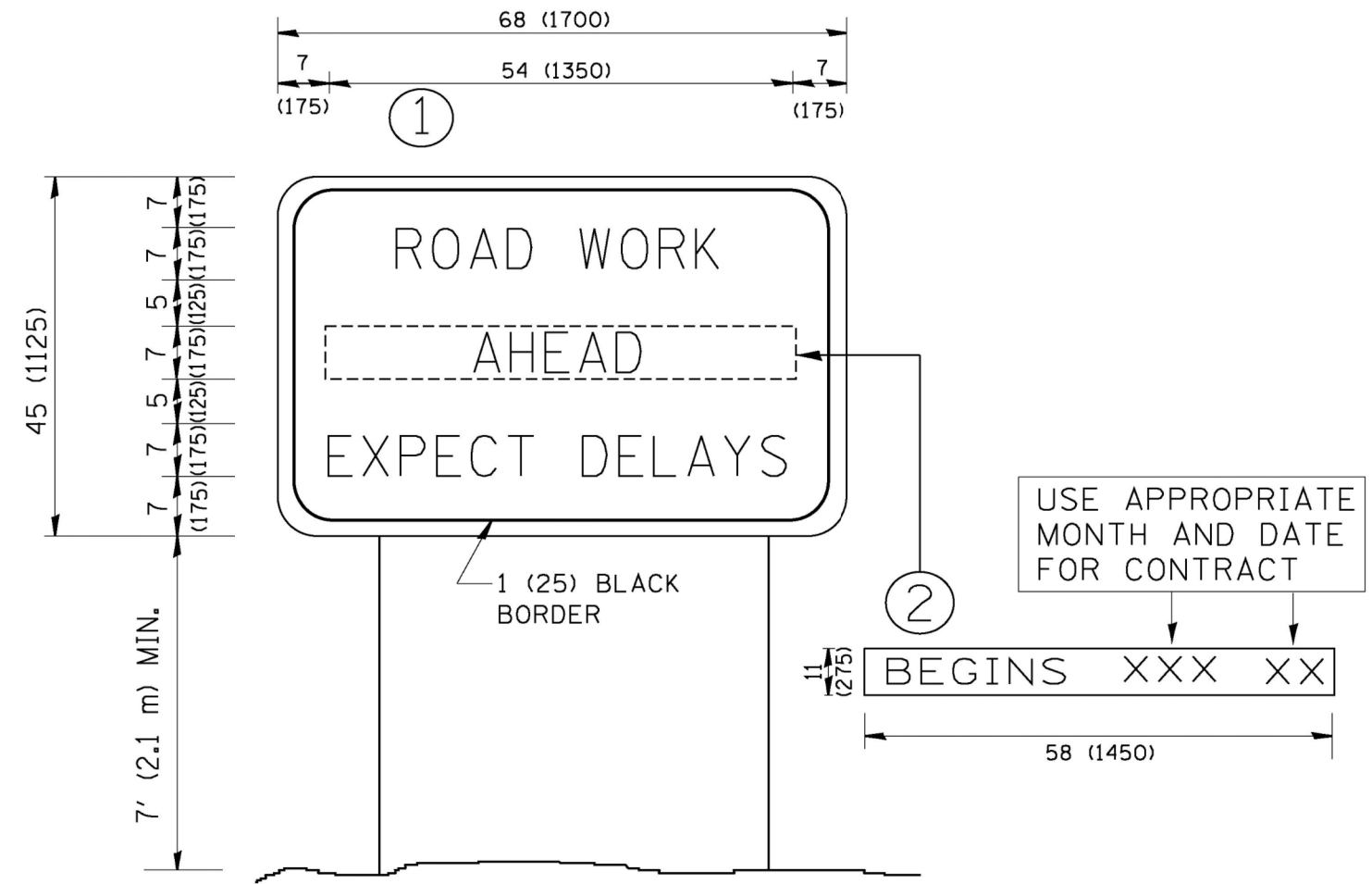
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-I	COOK	25	22
TC-17			CONTRACT NO. 60M70	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

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NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



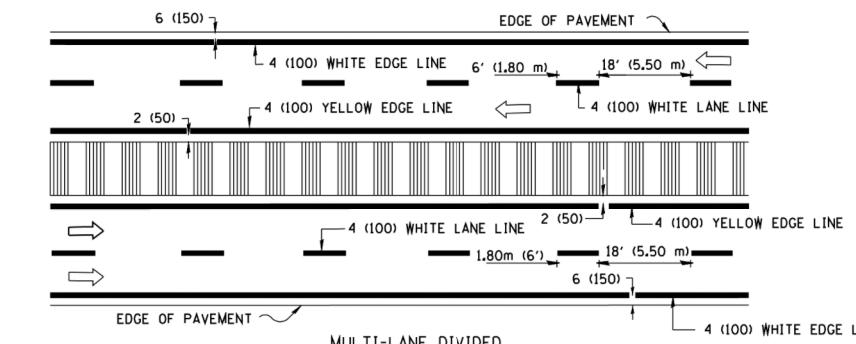
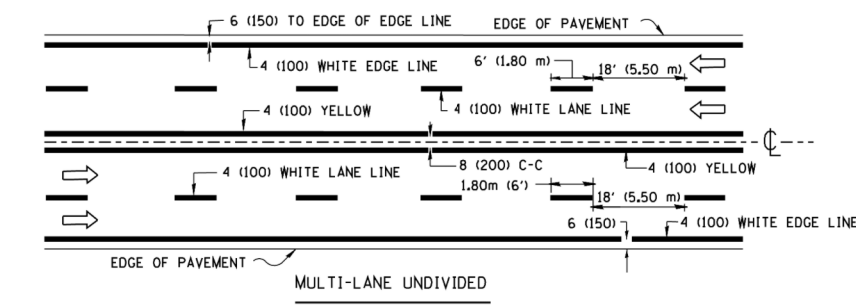
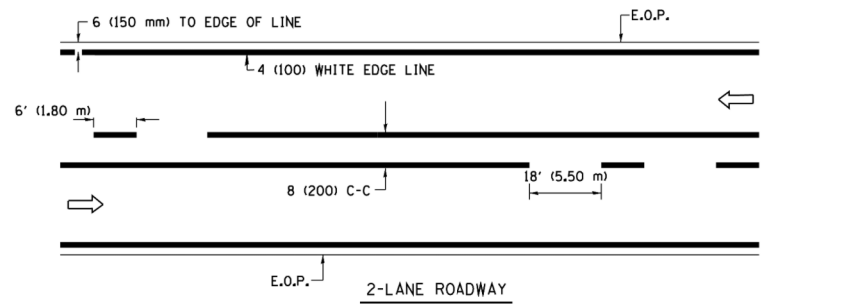
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	CHECKED -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/4/2008	CHECKED -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN
SCALE: NONE SHEET NO. 1 OF 1 SHEETS

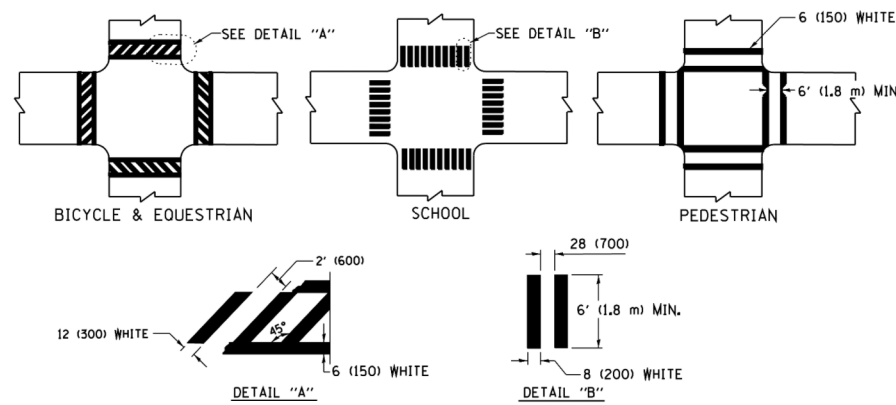
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1584	1111-70HB-I	COOK	25	23
TC-22			CONTRACT NO. 60M70	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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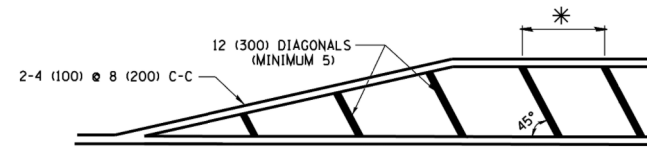


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

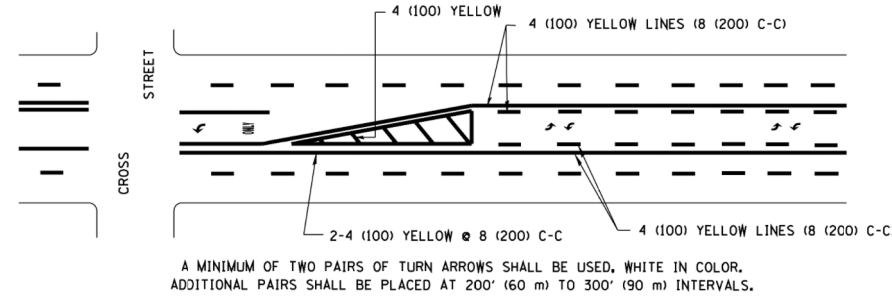


TYPICAL CROSSWALK MARKING

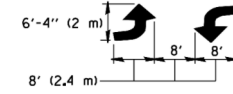


* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

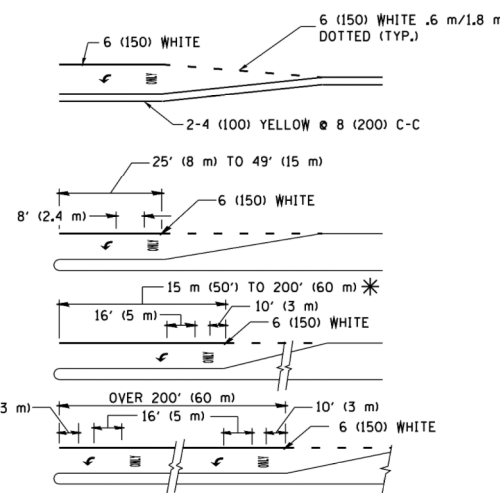


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

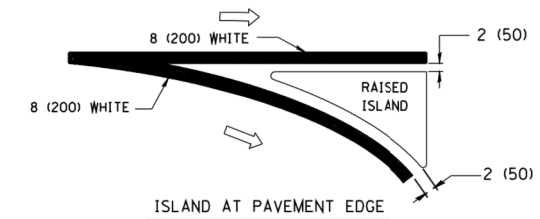
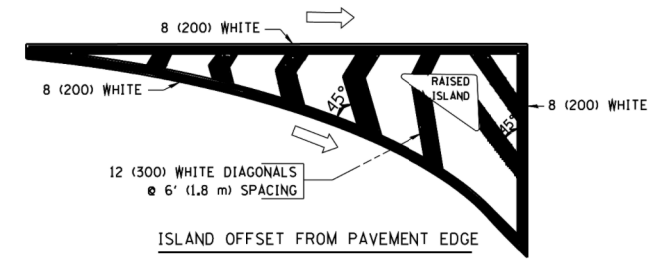
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.8 SO. FT. (1.47 m²) ONLY AREA = 22.9 SO. FT. (2.13 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 6 (150) 12 (300) 45° 8 (200) 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 4 (100) WITH 12 (300) DIAGONALS 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



USER NAME = gaglianob	DESIGNED -	REVISED - T. RAMMACH 12-07-00
PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
PLOT DATE = 1/4/2008	DRAWN -	REVISED -
	CHECKED -	REVISED -

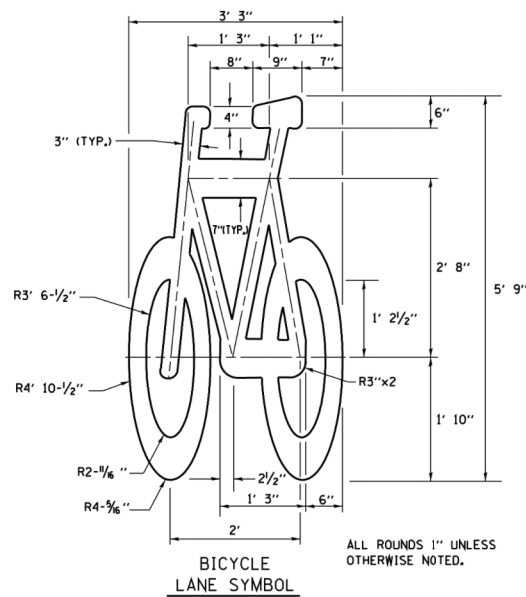
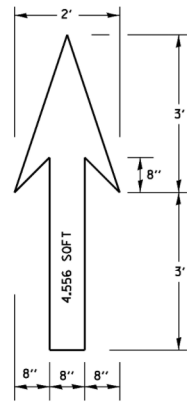
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SHEET NO. 1 OF 2 SHEETS

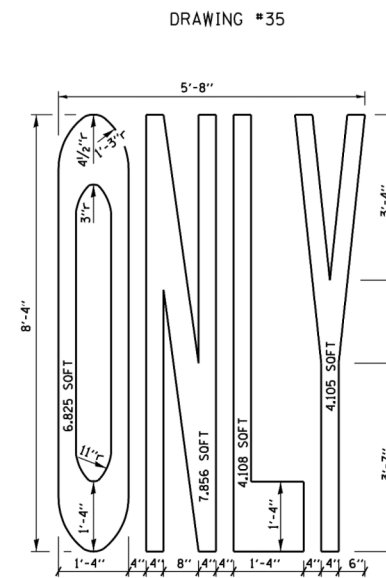
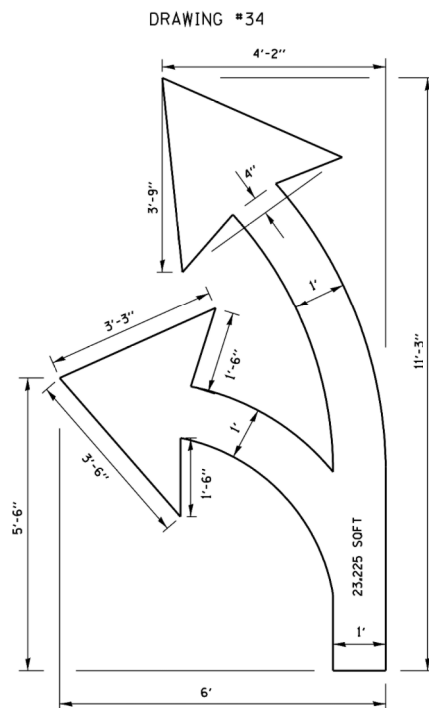
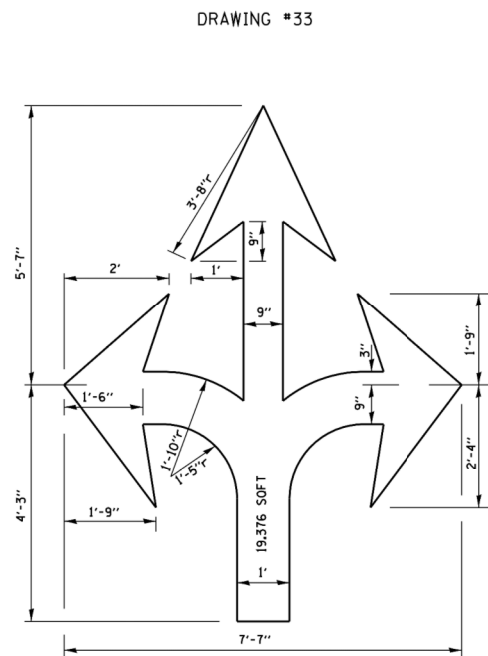
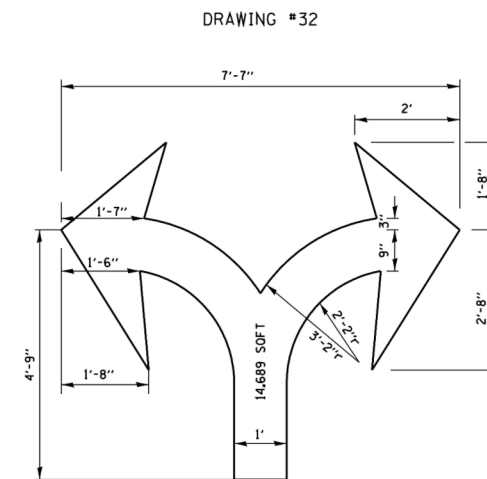
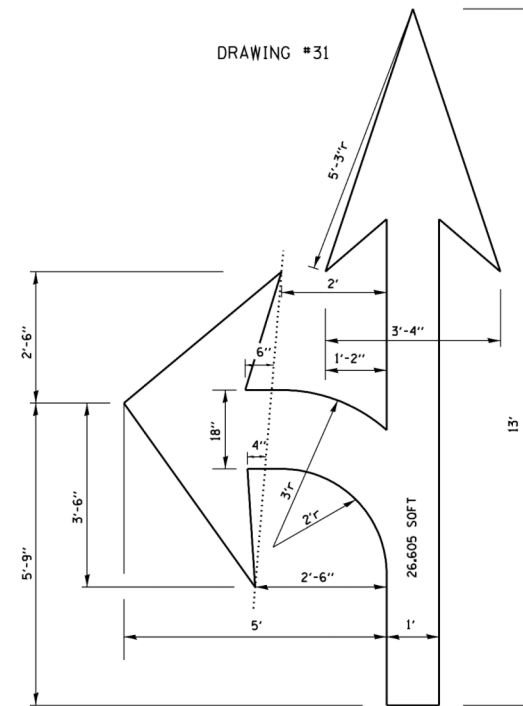
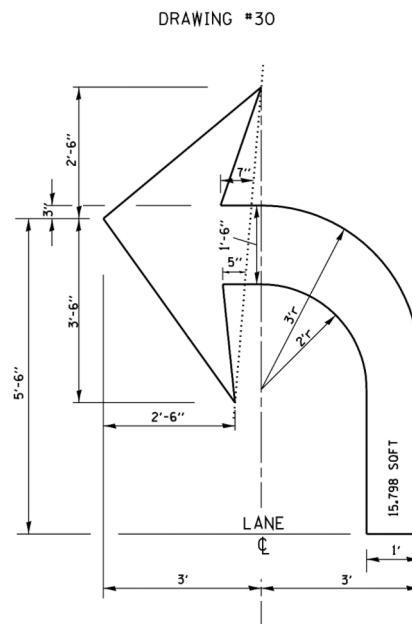
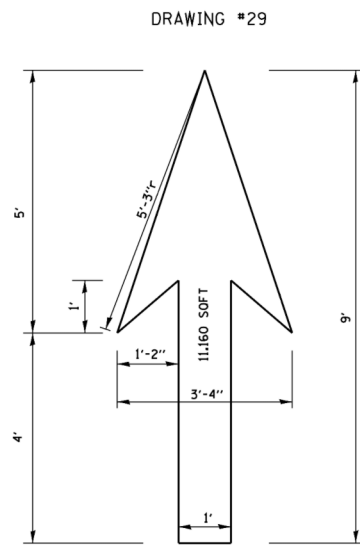
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70HB-I	COOK	25	24
TC-24		CONTRACT NO. 60M70		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



NOTE:

- 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



NOTE: ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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USER NAME = gaglianob	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
PLOT DATE = 1/4/2008	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1584	1111-70H-I	COOK	25	25
TC-24			CONTRACT NO. 60M70	
ILLINOIS FED. AID PROJECT				